Brazoria County Crime Lab

Seized Drugs Section

GC-MS Maintenance Log

Instrument: GCMS-4 **Month/Year:** June 2025

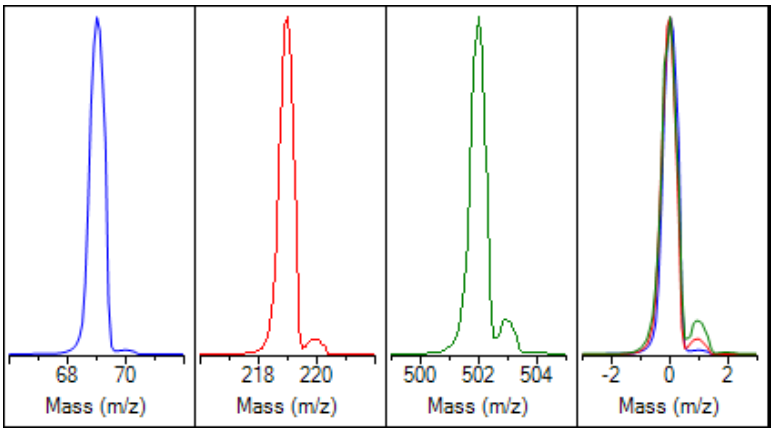
Entry Number	Date	He Tank Pressure	Autotune	Septum Change	Wash Vials Filled	Liner Change	Gold Seal Replaced	Column Cut	Computer Restarted	Maintenance/ PM	Analyst/ Technician	Comments	Initials
1	6/2/2025	2350	N/A	N/A	N/A	N/A	✓	✓	N/A	Maintenance	Analyst	cut column and insert in MS after PM	KB
2	6/9/2025	800	Pass	N/A	N/A	N/A	N/A	N/A	N/A	Maintenance	Analyst	Instrument not in service	DS
3	6/16/2025	2700	Pass	N/A	N/A	N/A	N/A	N/A	N/A	Maintenance	Analyst	Instrument not in service/Helium tank change	DS/DN
4	6/18/2025	2400	N/A	N/A	N/A	N/A	N/A	N/A	✓	Maintenance	Analyst	Restart after planned building power shutdown	DS
5	6/23/2025	1400	Fail	N/A	✓	N/A	N/A	N/A	N/A	Maintenance	Analyst	See Maintenance notes 2025-0627	DS
6	6/27/2025	N/A	Pass	N/A	N/A	N/A	N/A	N/A	N/A	Maintenance	Analyst	See Maintenance notes 2025-0627	DS
7	6/30/2025	2700	Pass	✓	✓	✓	N/A	N/A	N/A	Maintenance	Analyst	Helium tank change	KB

Signature: Derek Sanders **Date:** 07/01/2025

High Efficiency Source Autotune - 5977

Tune timestamp: 6/3/2025 9:42 AM (UTC-05:00) GCMS #4

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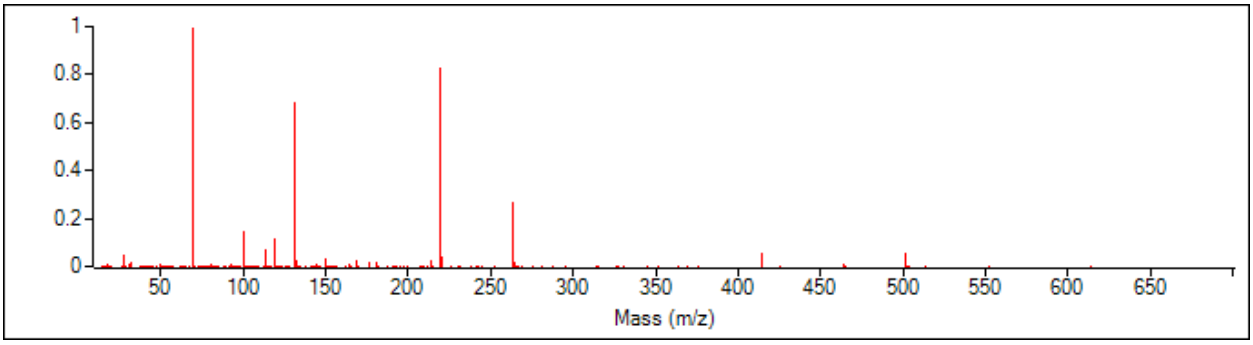
Ion Polarity	Pos	PFTBA	Open
Emission	100.0	Mass Gain	88
Electron Energy	70.0	Mass Offset	-28
Filament	1	Amu Gain	2460
Repeller	14.79	Amu Offset	136.50
Ion Focus	149.6	Width219	0.001
Entrance Lens	7.5	DC Polarity	Pos
Ent Lens Offset	18.23	HED Enable	On
Ion Body	4.75	EM Volts	2058.8
Post Extractor 1	10	Extractor Lens	14.20
Post Extractor 2	31	Scan Speed	3
JetClean Flow Actual/[Setpoint]	0.00 [0.00]	Averages	3

Actual m/z	Abund	Rel Abund	Pw50
69.00	503,658	100.0%	0.61
219.00	424,904	84.4%	0.59
502.00	28,302	5.6%	0.61

Temperatures and Pressures

MS Source	230	Turbo Speed	100.0
MS Quad	150	Hi Vac	7.83e-06

Low	High	Step	Speed	Threshold	Peaks	Base	Abundance	Total Ion
10.00	701.00	0.10	3	100	164	69.00	474,880	1,771,182



Target m/z	Actual m/z	Abund	Rel Abund	Iso m/z	Iso Abund	Iso Ratio
69.00	69.00	474,880	100.0%	70.00	6,084	1.3%
219.00	219.00	392,384	82.6%	220.00	18,544	4.7%
502.00	502.00	25,368	5.3%	503.00	2,621	10.3%

Air/Water Check: H20 ~0.8% N2 ~5.2% O2 ~1.5% CO2 ~0.4% N2/H20 ~636.6%

Column(1) Flow: 0.70 Column(2): 0.00 ml/min Interface Temp: 280

Ramp Criteria:

Ion Focus maximum 128 volts using ion 502; Electron Multiplier Gain 12665.369

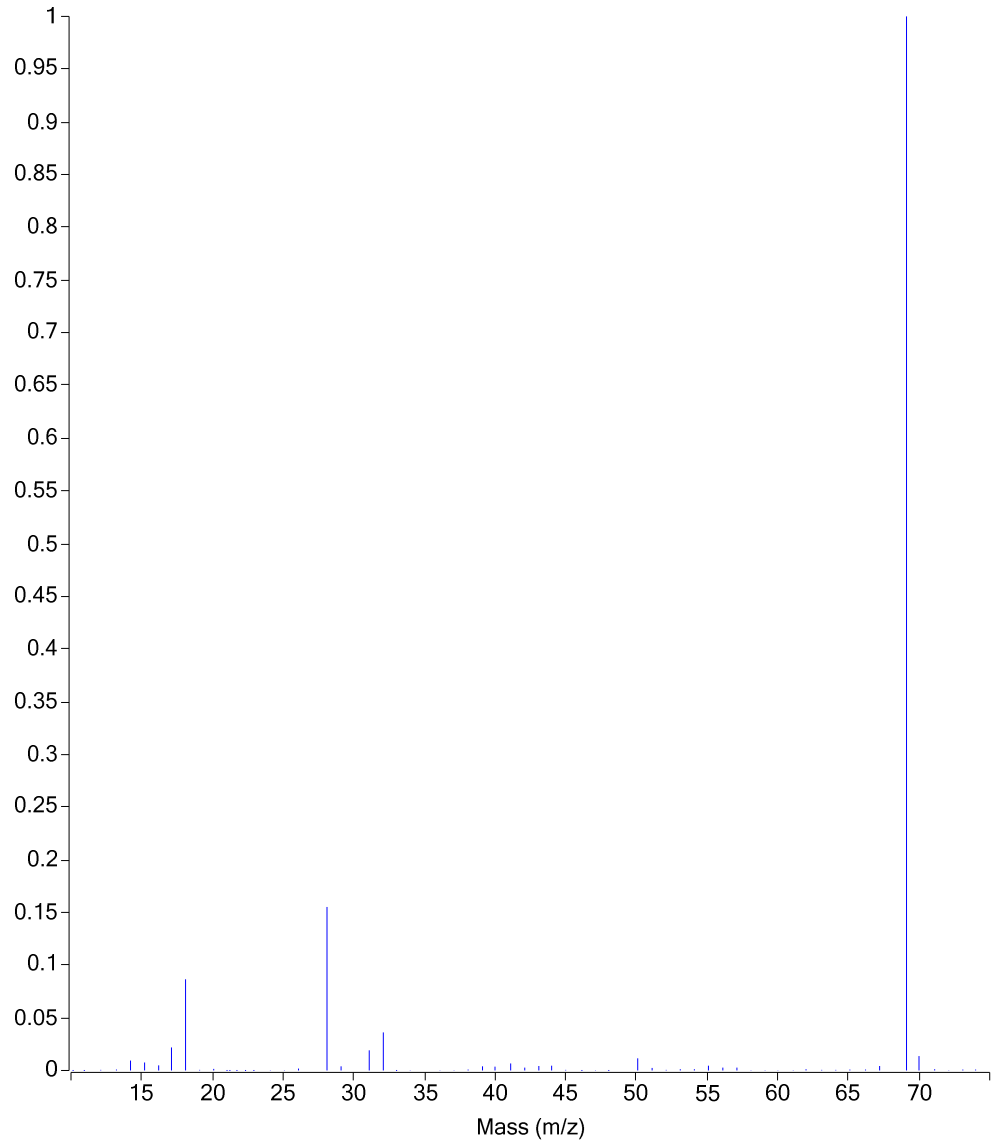
Repeller maximum 35 volts using ion 219; Gain Factor 0.1267

Mass Gain Values(Scan Speed): 94(3) 104(2) 108(1) 116(0) 169(FS1) 168(FS2) 146(FS3)

TARGET MASS:	50	69	131	219	414	502	1050
Amu Offset	136.5	136.5	136.5	136.5	136.5	136.5	136.5
Entrance Lens Offset	18.2	18.2	18.2	18.2	18.2	18.2	18.2

597x Air and Water Check

Instrument: GCMS #4
Tue Jun 03 09:31:33 2025 D:\MassHunter\GCMS\1\5977\



Current Params used: HES_Atune.u

Relative abundances:

18/69 =	8.64	Water%	(counts=72392)
28/69 =	15.51	Nitrogen%	(counts=129952)
32/69 =	3.62	Oxygen%	(counts=30312)
44/69 =	0.45	Carbon Dioxide%	(counts=3779)
28/18 =	179.51	Nitrogen/Water%	

Instrument Name : GCMS #4
DC Polarity : Positive
Filament 1
Current Vacuum status :High Vacuum: 5.85E-06 Torr Turbo:100%

BasePeak should be 69 or 219		OK
Position of mass 69	69.00	OK
Position of mass 219	219.00	OK
Position of mass 502	502.03	OK
Position of isotope mass 70	70.00	OK
Position of isotope mass 220	220.00	OK
Position of isotope mass 503	503.01	OK
Ratio of mass 70 to mass 69(0.5 - 1.6%)	1.29	OK
Ratio of mass 220 to mass 219(3.2 - 5.4%)	4.66	OK
Ratio of mass 503 to mass 502(7.9 - 12.3%)	10.23	OK
Ratio of 219 to 69 should be > 40% and is	82.25	OK
Ratio of 502 to 69 should be > 2.4% and is	5.22	OK
Mass 69 Precursor (<= 3%)	0.89	OK
Mass 219 Precursor (<= 6%)	2.90	OK
Mass 502 Precursor (<= 12%)	5.24	OK

597x Air and Water Check
Tue Jun 03 09:46:51 2025 Instrument: GCMS #4
D:\MASSHUNTER\GCMS\1\5977\HES_Atune.u US1837D002

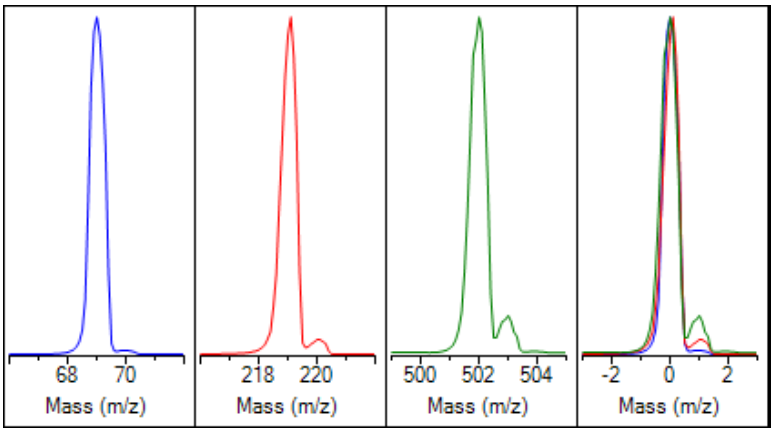
Testing for a leak in the system		
Ratio of 18 to 69 (<20%)	0.78	OK
Ratio of 28 to 69 (<10%)	5.06	OK
Electron Multiplier Voltage	2059	OK

Tune portion of System Verification passed.

High Efficiency Source Autotune - 5977

Tune timestamp: 6/9/2025 9:05 AM (UTC-05:00) GCMS #4

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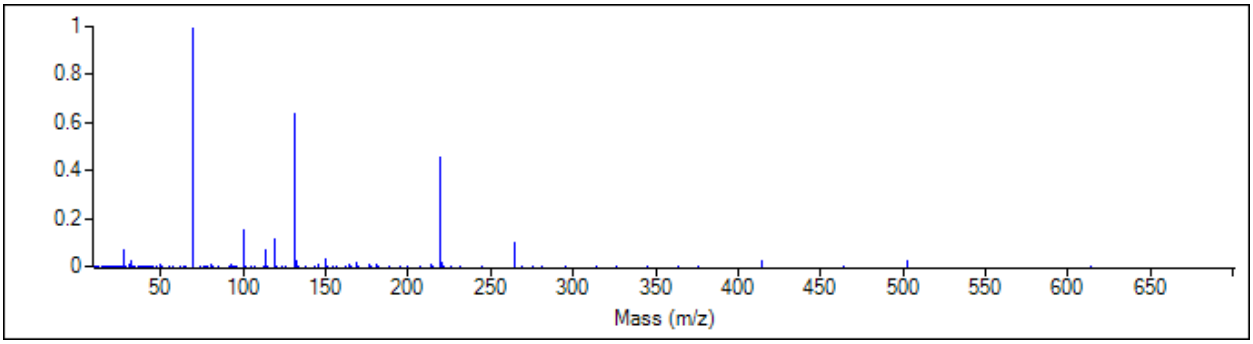
Ion Polarity	Pos	PFTBA	Open
Emission	100.0	Mass Gain	86
Electron Energy	70.0	Mass Offset	-25
Filament	1	Amu Gain	2437
Repeller	11.14	Amu Offset	140.56
Ion Focus	48.9	Width219	0.051
Entrance Lens	10.1	DC Polarity	Pos
Ent Lens Offset	4.54	HED Enable	On
Ion Body	4.75	EM Volts	2121.6
Post Extractor 1	9	Extractor Lens	10.60
Post Extractor 2	31	Scan Speed	3
JetClean Flow Actual/[Setpoint]	0.00 [0.00]	Averages	3

Actual m/z	Abund	Rel Abund	Pw50
69.00	399,020	100.0%	0.62
219.10	178,681	44.8%	0.61
502.00	9,685	2.4%	0.67

Temperatures and Pressures

MS Source	230	Turbo Speed	100.0
MS Quad	150	Hi Vac	7.79e-06

Low	High	Step	Speed	Threshold	Peaks	Base	Abundance	Total Ion
10.00	701.00	0.10	3	100	119	69.00	366,848	1,097,072



Target m/z	Actual m/z	Abund	Rel Abund	Iso m/z	Iso Abund	Iso Ratio
69.00	69.00	366,848	100.0%	70.00	4,266	1.2%
219.00	219.10	168,064	45.8%	220.10	7,774	4.6%
502.00	502.10	9,304	2.5%	503.00	933	10.0%

Air/Water Check: H20 ~0.4% N2 ~7.1% O2 ~2.1% CO2 ~0.3% N2/H20 ~1623.0%

Column(1) Flow: 0.70 Column(2): 0.00 ml/min Interface Temp: 280

Ramp Criteria:

Ion Focus maximum 128 volts using ion 502; Electron Multiplier Gain 14356.796

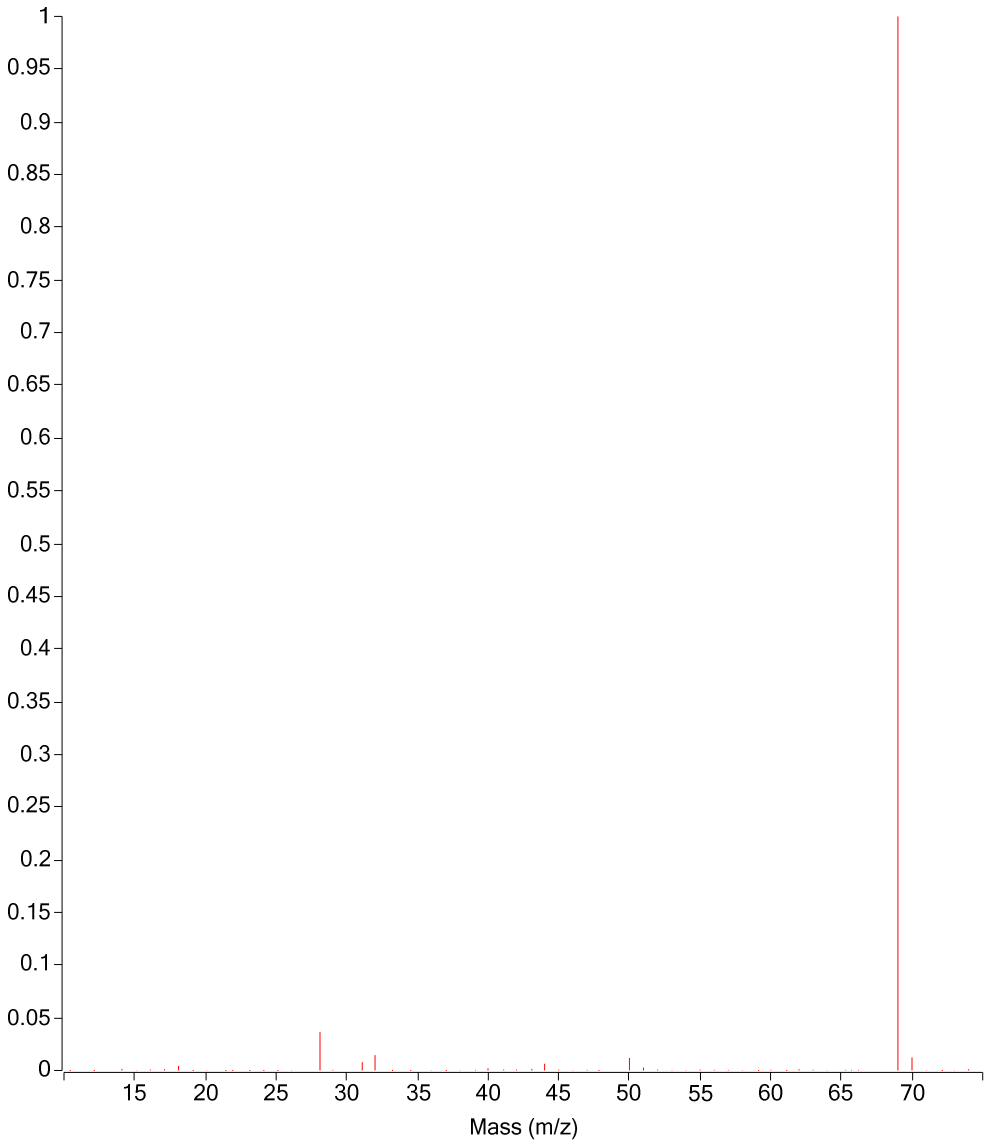
Repeller maximum 35 volts using ion 219; Gain Factor 0.1436

Mass Gain Values(Scan Speed): 96(3) 100(2) 109(1) 126(0) 134(FS1) 177(FS2) 143(FS3)

TARGET MASS:	50	69	131	219	414	502	1050
Amu Offset	140.6	140.6	140.6	140.6	140.6	140.6	140.6
Entrance Lens Offset	4.5	4.5	4.5	4.5	4.5	4.5	4.5

597x Air and Water Check

Instrument: GCMS #4
Mon Jun 09 08:30:15 2025 D:\MassHunter\GCMS\1\5977\



Current Params used: HES_Atune.u

Relative abundances:

18/69 =	0.43	Water%	(counts=3566)
28/69 =	3.65	Nitrogen%	(counts=30304)
32/69 =	1.46	Oxygen%	(counts=12100)
44/69 =	0.64	Carbon Dioxide%	(counts=5300)
28/18 =	849.80	Nitrogen/Water%	

Instrument Name : GCMS #4
DC Polarity : Positive
Filament 1
Current Vacuum status :High Vacuum: 6.05E-06 Torr Turbo:100%

BasePeak should be 69 or 219		OK
Position of mass 69	69.00	OK
Position of mass 219	219.10	OK
Position of mass 502	502.04	OK
Position of isotope mass 70	70.00	OK
Position of isotope mass 220	220.10	OK
Position of isotope mass 503	503.03	OK
Ratio of mass 70 to mass 69(0.5 - 1.6%)	1.17	OK
Ratio of mass 220 to mass 219(3.2 - 5.4%)	4.44	OK
Ratio of mass 503 to mass 502(7.9 - 12.3%)	10.33	OK
Ratio of 219 to 69 should be > 40% and is	47.27	OK
Ratio of 502 to 69 should be > 2.4% and is	2.51	OK
Mass 69 Precursor (<= 3%)	0.64	OK
Mass 219 Precursor (<= 6%)	4.29	OK
Mass 502 Precursor (<= 12%)	4.15	OK

597x Air and Water Check
Mon Jun 09 09:09:17 2025 Instrument: GCMS #4
D:\MASSHUNTER\GCMS\1\5977\HES_Atune.u US1837D002

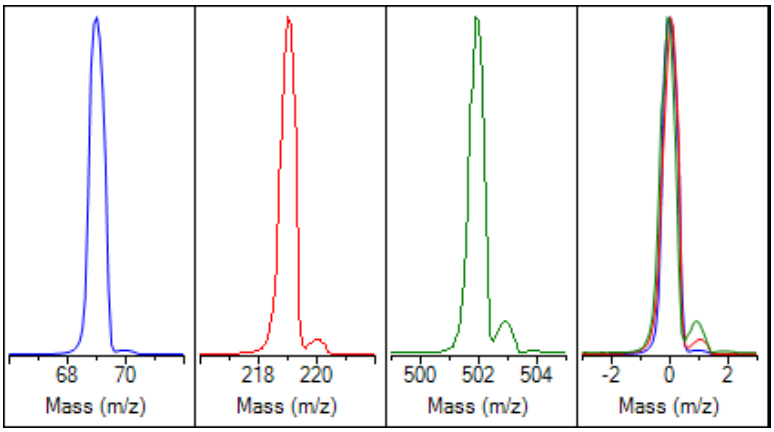
Testing for a leak in the system		
Ratio of 18 to 69 (<20%)	0.41	OK
Ratio of 28 to 69 (<10%)	7.04	OK
Electron Multiplier Voltage	2122	OK

Tune portion of System Verification passed.

High Efficiency Source Autotune - 5977

Tune timestamp: 6/9/2025 8:41 AM (UTC-05:00) GCMS #4

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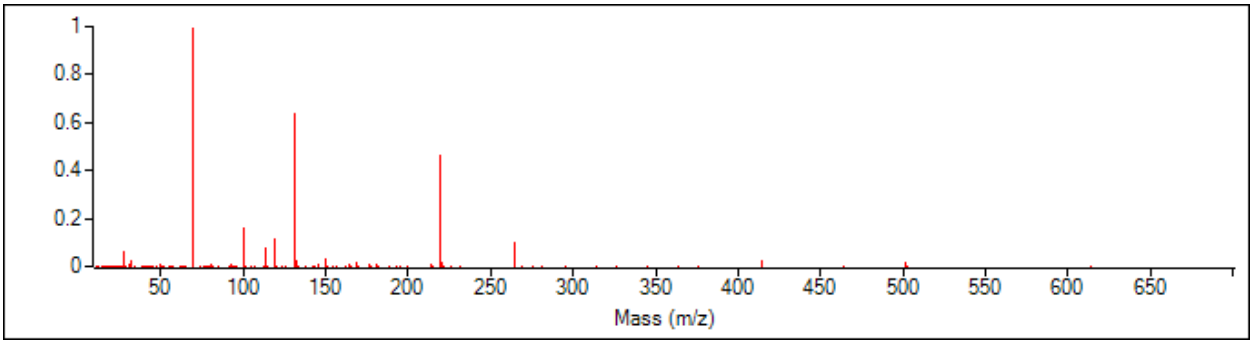
Ion Polarity	Pos	PFTBA	Open
Emission	100.0	Mass Gain	81
Electron Energy	70.0	Mass Offset	-25
Filament	1	Amu Gain	2460
Repeller	10.77	Amu Offset	139.94
Ion Focus	49.9	Width219	0.051
Entrance Lens	7.5	DC Polarity	Pos
Ent Lens Offset	4.70	HED Enable	On
Ion Body	4.75	EM Volts	2076.0
Post Extractor 1	10	Extractor Lens	11.20
Post Extractor 2	30	Scan Speed	3
JetClean Flow Actual/[Setpoint]	0.00 [0.00]	Averages	3

Actual m/z	Abund	Rel Abund	Pw50
69.00	412,126	100.0%	0.61
219.00	177,289	43.0%	0.63
501.90	9,171	2.2%	0.61

Temperatures and Pressures

MS Source	230	Turbo Speed	100.0
MS Quad	150	Hi Vac	7.53e-06

Low	High	Step	Speed	Threshold	Peaks	Base	Abundance	Total Ion
10.00	701.00	0.10	3	100	116	69.00	377,024	1,125,939



Target m/z	Actual m/z	Abund	Rel Abund	Iso m/z	Iso Abund	Iso Ratio
69.00	69.00	377,024	100.0%	70.00	4,364	1.2%
219.00	219.10	176,000	46.7%	220.10	7,799	4.4%
502.00	502.00	8,375	2.2%	503.00	726	8.7%

Air/Water Check: H20 ~0.4% N2 ~6.4% O2 ~2.0% CO2 ~0.3% N2/H20 ~1609.1%

Column(1) Flow: 0.70 Column(2): 0.00 ml/min Interface Temp: 280

Ramp Criteria:

Ion Focus maximum 128 volts using ion 502; Electron Multiplier Gain 15789.281

Repeller maximum 35 volts using ion 219; Gain Factor 0.1579

Mass Gain Values(Scan Speed): 92(3) 93(2) 103(1) 133(0) 159(FS1) 159(FS2) 159(FS3)

TARGET MASS:	50	69	131	219	414	502	1050
Amu Offset	139.9	139.9	139.9	139.9	139.9	139.9	139.9
Entrance Lens Offset	4.7	4.7	4.7	4.7	4.7	4.7	4.7

Instrument Name : GCMS #4
DC Polarity : Positive
Filament 1
Current Vacuum status :High Vacuum: 5.68E-06 Torr Turbo:100%

BasePeak should be 69 or 219		OK
Position of mass 69	69.00	OK
Position of mass 219	219.10	OK
Position of mass 502	502.03	OK
Position of isotope mass 70	70.00	OK
Position of isotope mass 220	220.10	OK
Position of isotope mass 503	503.01	OK
Ratio of mass 70 to mass 69(0.5 - 1.6%)	1.19	OK
Ratio of mass 220 to mass 219(3.2 - 5.4%)	4.42	OK
Ratio of mass 503 to mass 502(7.9 - 12.3%)	10.23	OK
Ratio of 219 to 69 should be > 40% and is	47.13	OK
Ratio of 502 to 69 should be > 2.4% and is	2.18	Low

Possible causes include: Bad vacuum, vacuum leaks or faulty pumps
Bad filament being used
Dirty ion source

Mass 69 Precursor (<= 3%)	0.58	OK
Mass 219 Precursor (<= 6%)	3.18	OK
Mass 502 Precursor (<= 12%)	3.48	OK

597x Air and Water Check
Mon Jun 09 08:46:21 2025 Instrument: GCMS #4
D:\MASSHUNTER\GCMS\1\5977\HES_Atune.u US1837D002

Testing for a leak in the system

Ratio of 18 to 69 (<20%)	0.37	OK
Ratio of 28 to 69 (<10%)	6.14	OK

Electron Multiplier Voltage	2076	OK

One or more specifications was out of range.
Please correct before continuing.

Failure of one or more tests may be caused by
selecting the wrong DC Polarity.
Please verify that the correct DC Polarity has been set
by removing the detector cover and checking the label
at the top of the EID.

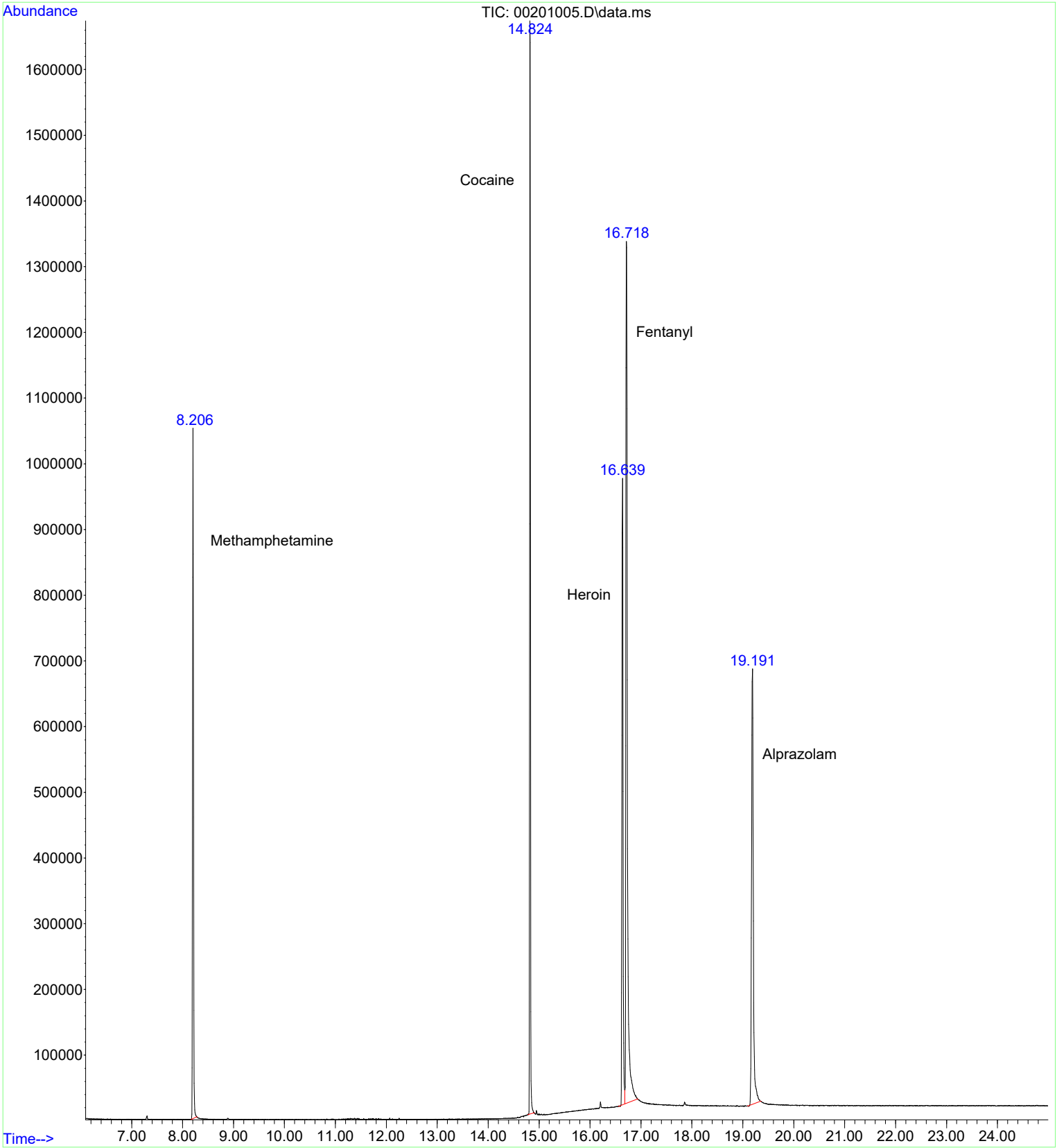
BCCL GC/MS #4
Retention Times for the Week of:

06/09/2025 - 06/16/2025

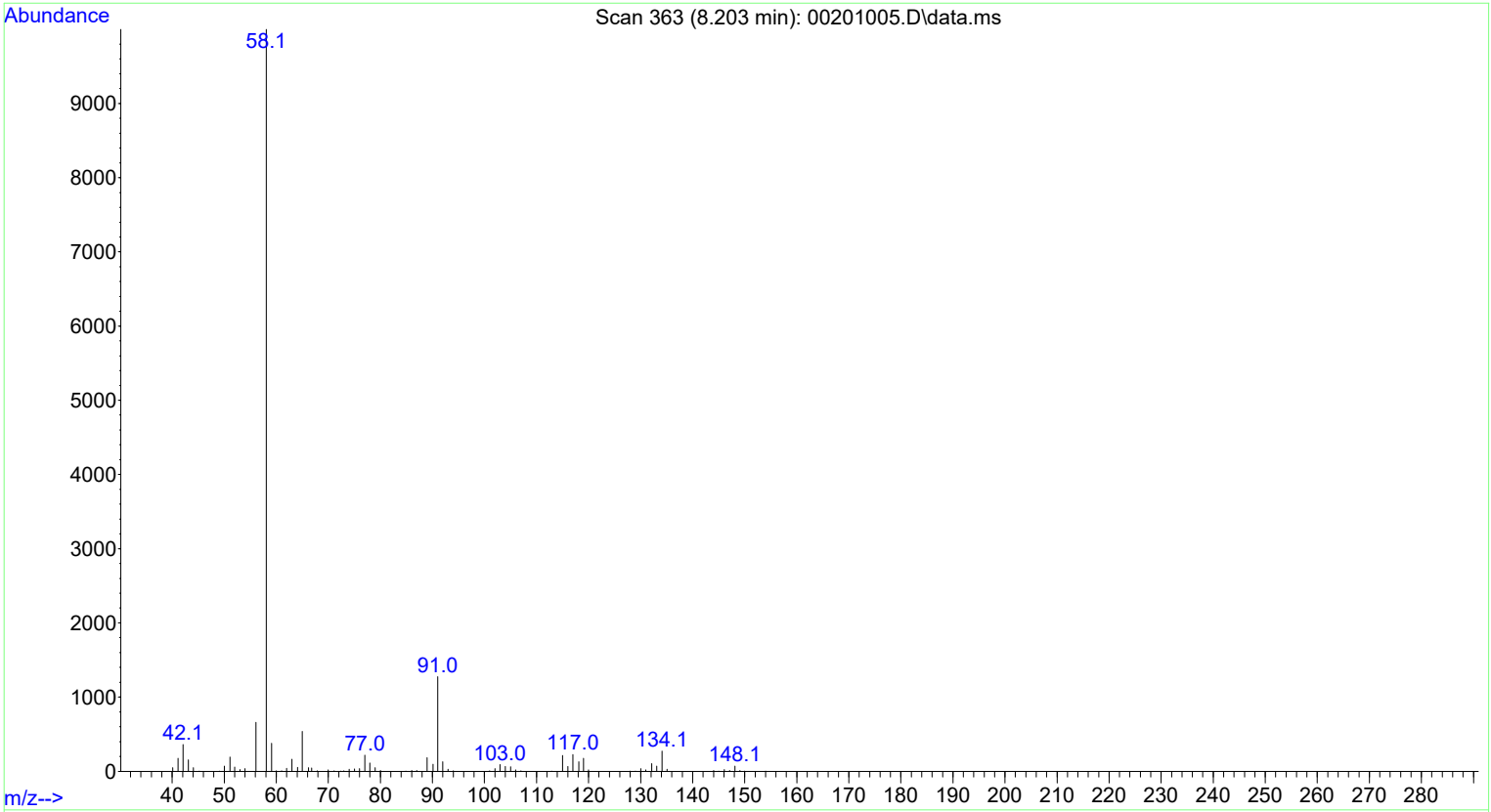
[X] **Tune: DS 06/09/2025 - HES Autotune**

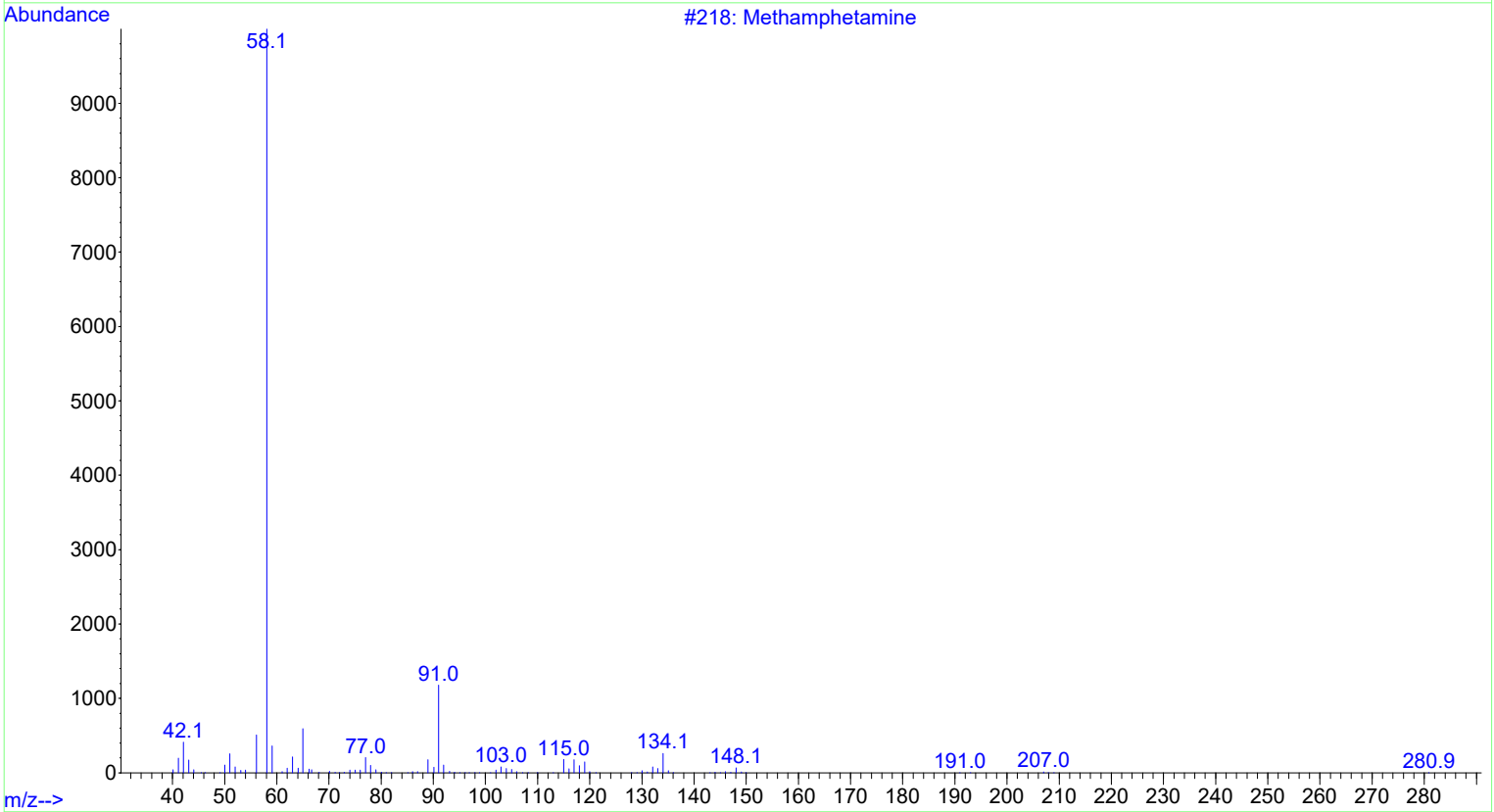
Standard	Standard #	Method	Retention Time	1% Window	
Methamphetamine	R-24-060	DrugTest35MS	8.206	8.123	8.288
Cocaine	R-24-060	DrugTest35MS	14.824	14.675	14.972
Heroin	R-24-060	DrugTest35MS	16.639	16.472	16.805
Fentanyl	R-24-060	DrugTest35MS	16.718	16.550	16.885
Alprazolam	R-24-060	DrugTest35MS	19.191	18.999	19.382

File :D:\MassHunter\GCMS\1\GCMS 4 data\Standards\Weekly Check Mix\
... 2025 Data\060925\00201005.D
Acquired : 09 Jun 2025 10:35 using AcqMethod DrugTest35MS.M
Instrument : GCMS #4
Sample Name: Cayman GC/MS mix 3 (R-24-060) 000002669
Misc Info : in ACN 000002669
Vial Number: 2

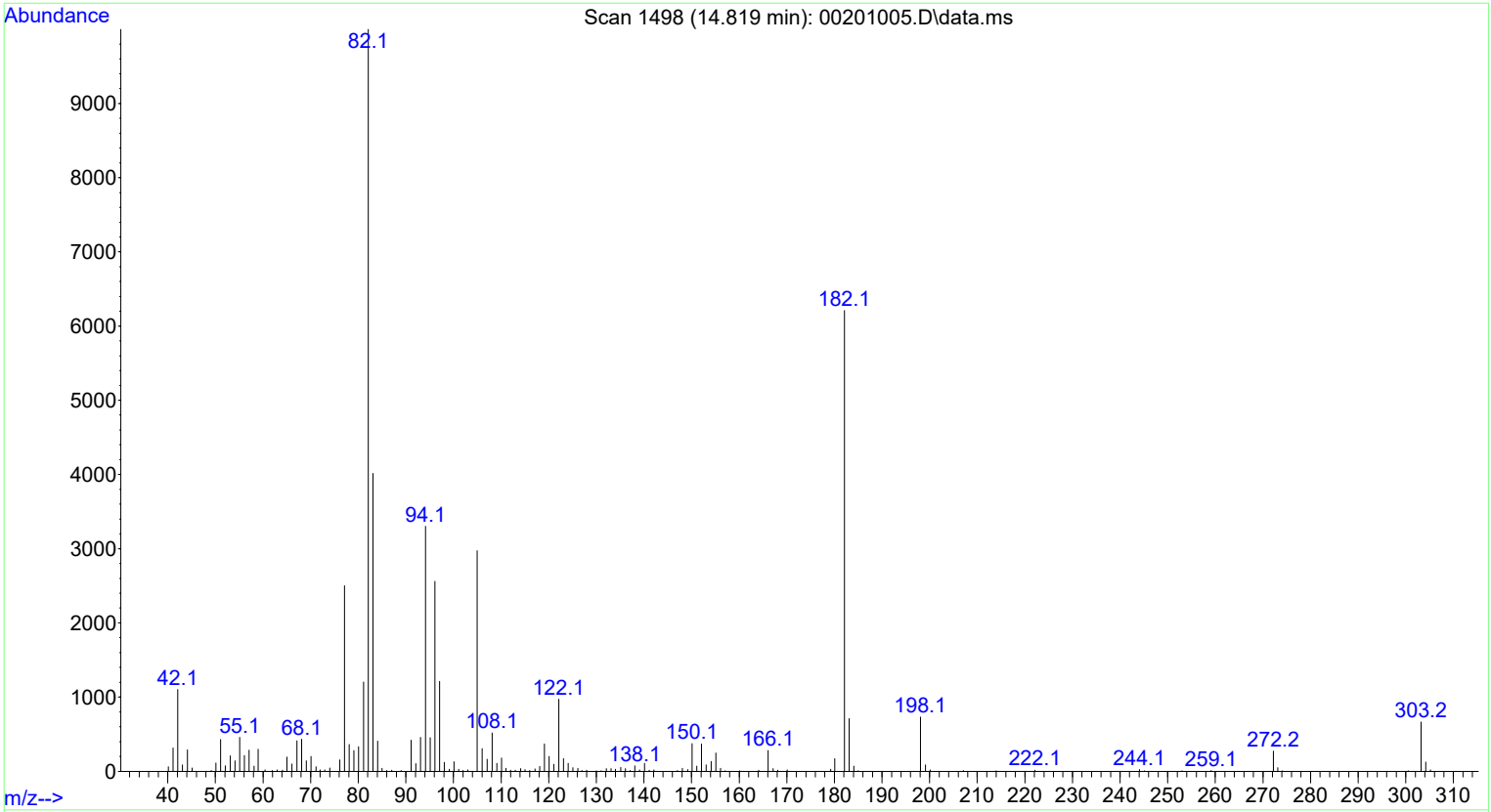


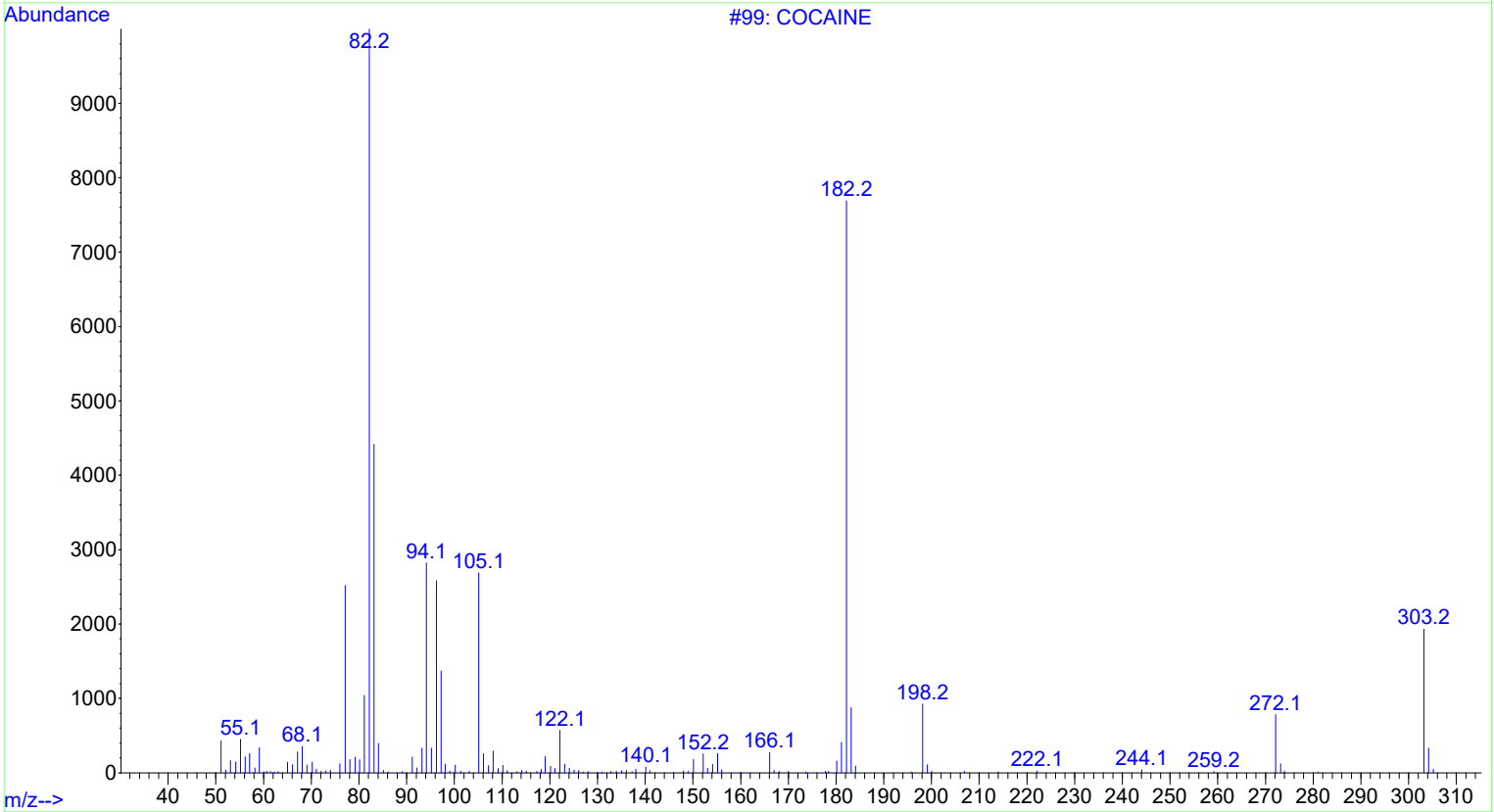
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... 2025 Data\060925\00201005.D
Acquired : 09 Jun 2025 10:35 using AcqMethod DrugTest35MS.M
Instrument : GCMS #4
Sample Name: Cayman GC/MS mix 3 (R-24-060) 000002669
Misc Info : in ACN 000002669
Vial Number: 2



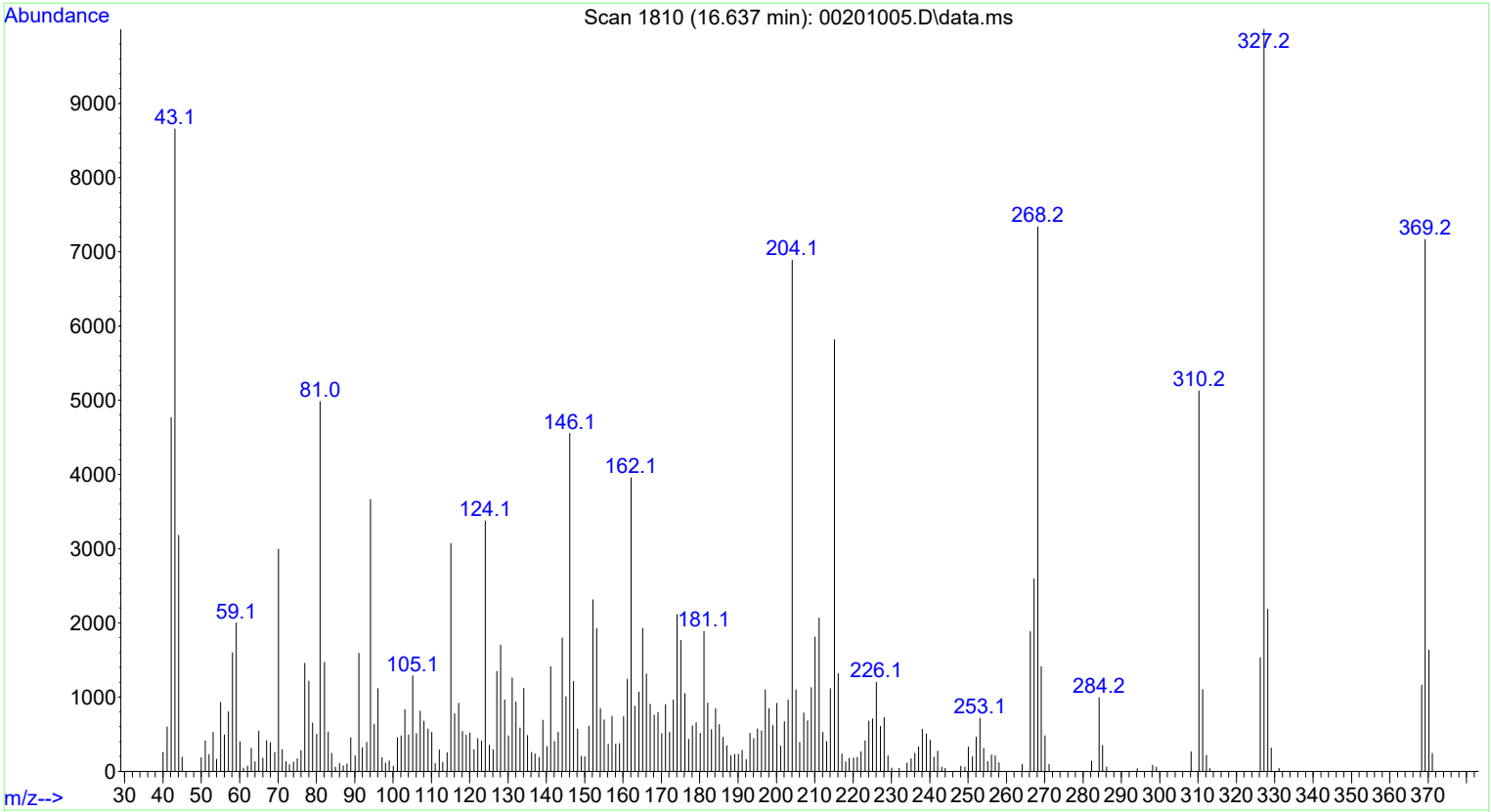


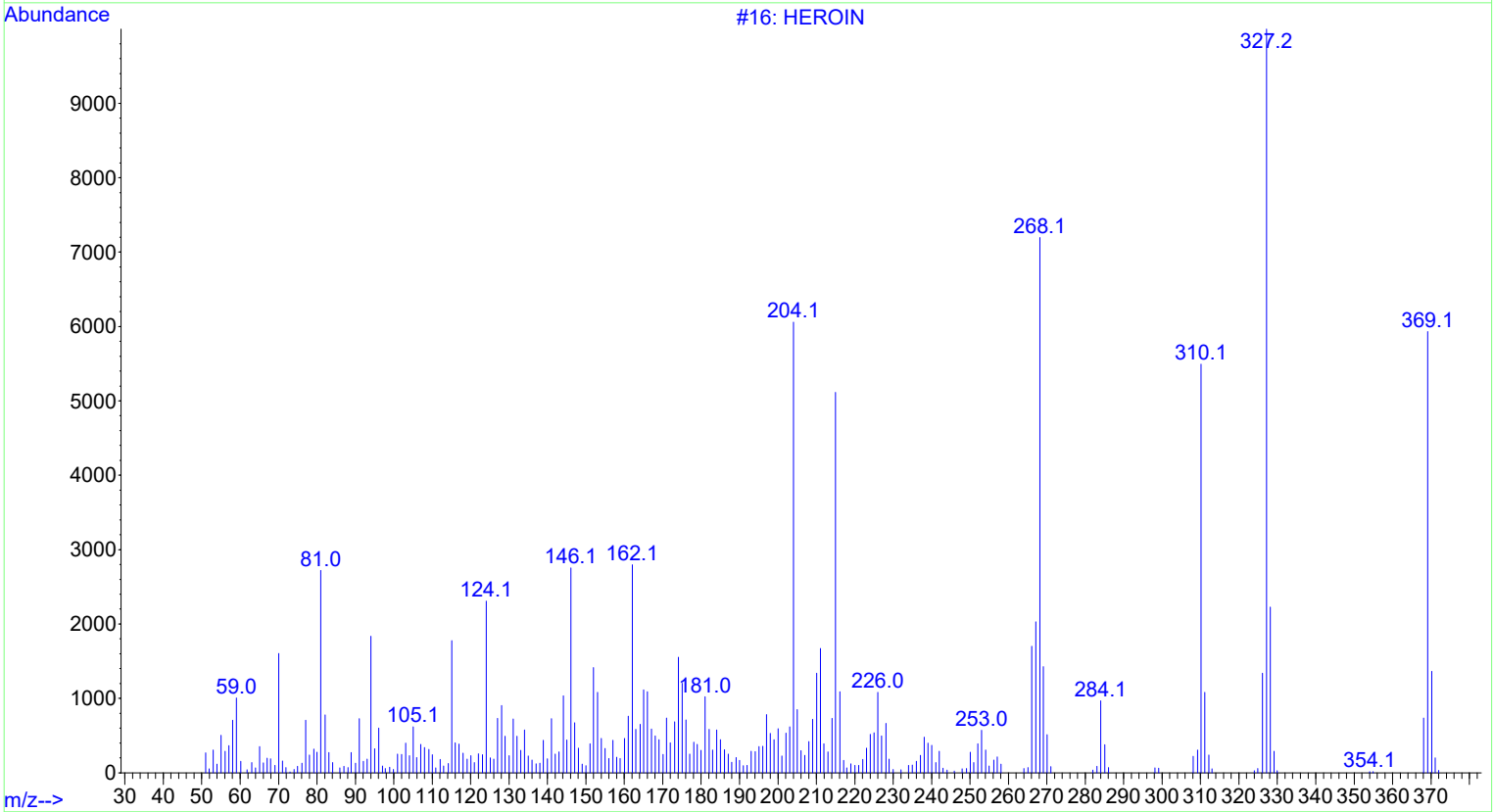
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... 2025 Data\060925\00201005.D
Acquired : 09 Jun 2025 10:35 using AcqMethod DrugTest35MS.M
Instrument : GCMS #4
Sample Name: Cayman GC/MS mix 3 (R-24-060) 000002669
Misc Info : in ACN 000002669
Vial Number: 2



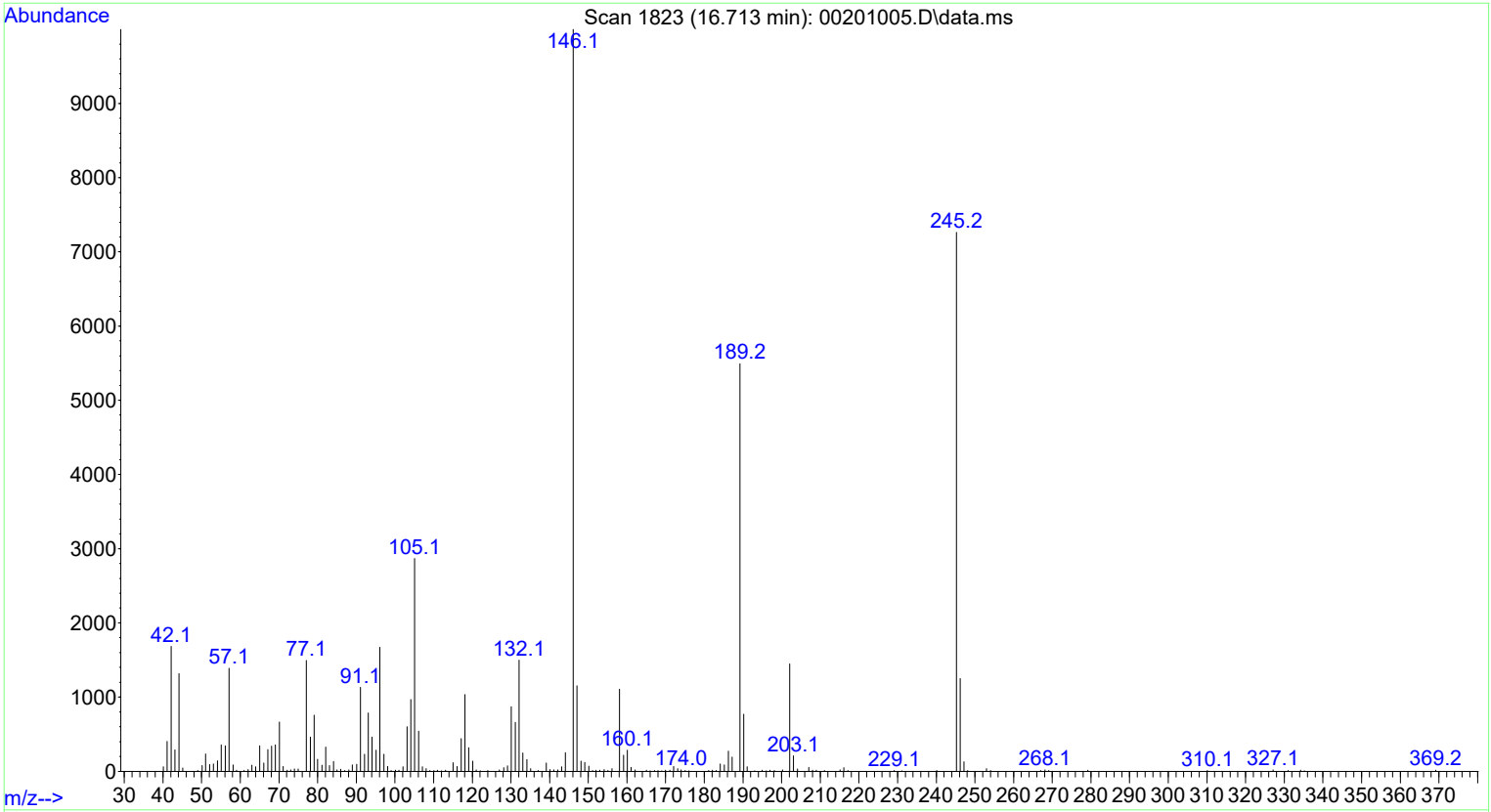


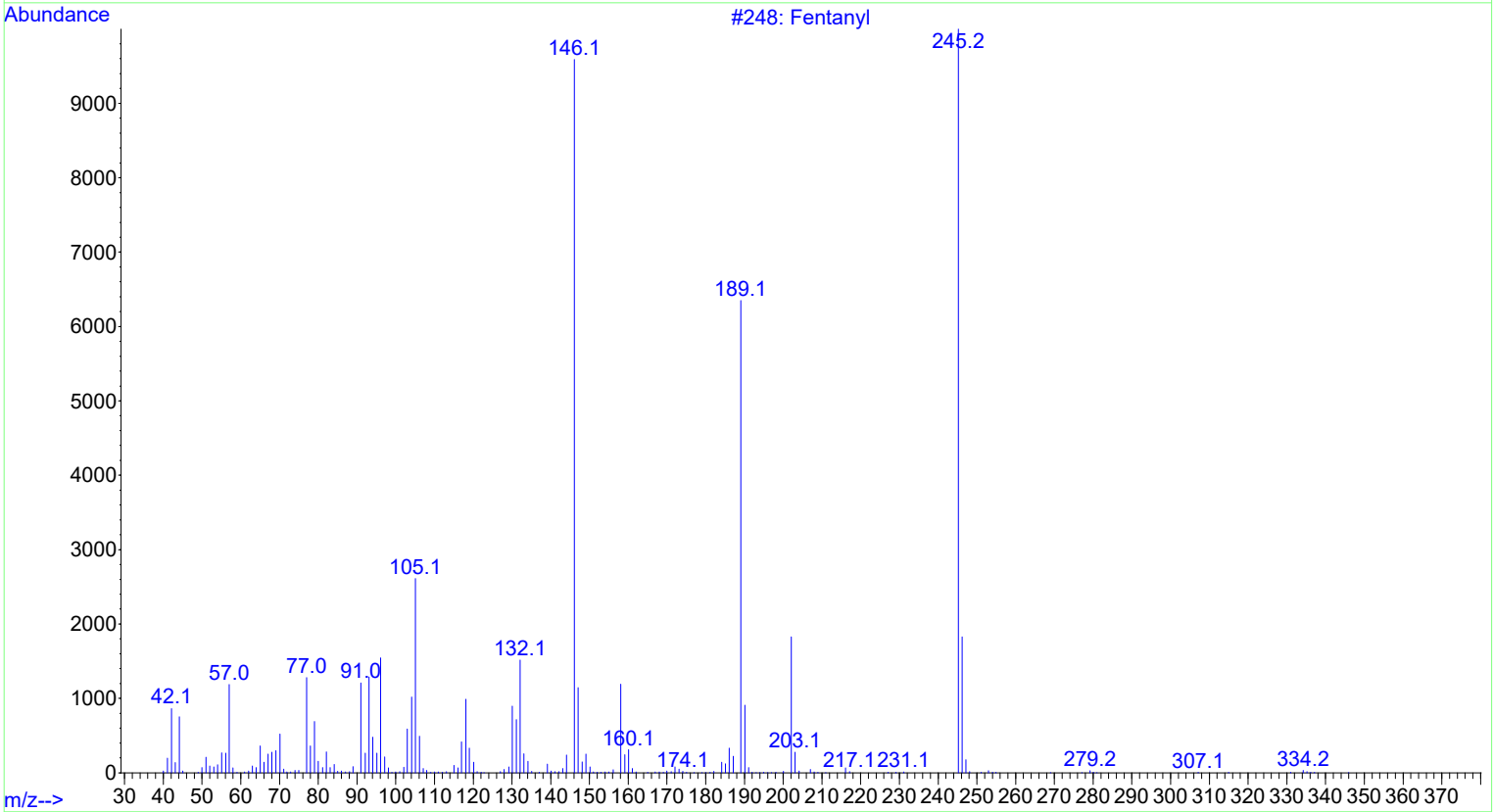
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... 2025 Data\060925\00201005.D
Acquired : 09 Jun 2025 10:35 using AcqMethod DrugTest35MS.M
Instrument : GCMS #4
Sample Name: Cayman GC/MS mix 3 (R-24-060) 000002669
Misc Info : in ACN 000002669
Vial Number: 2



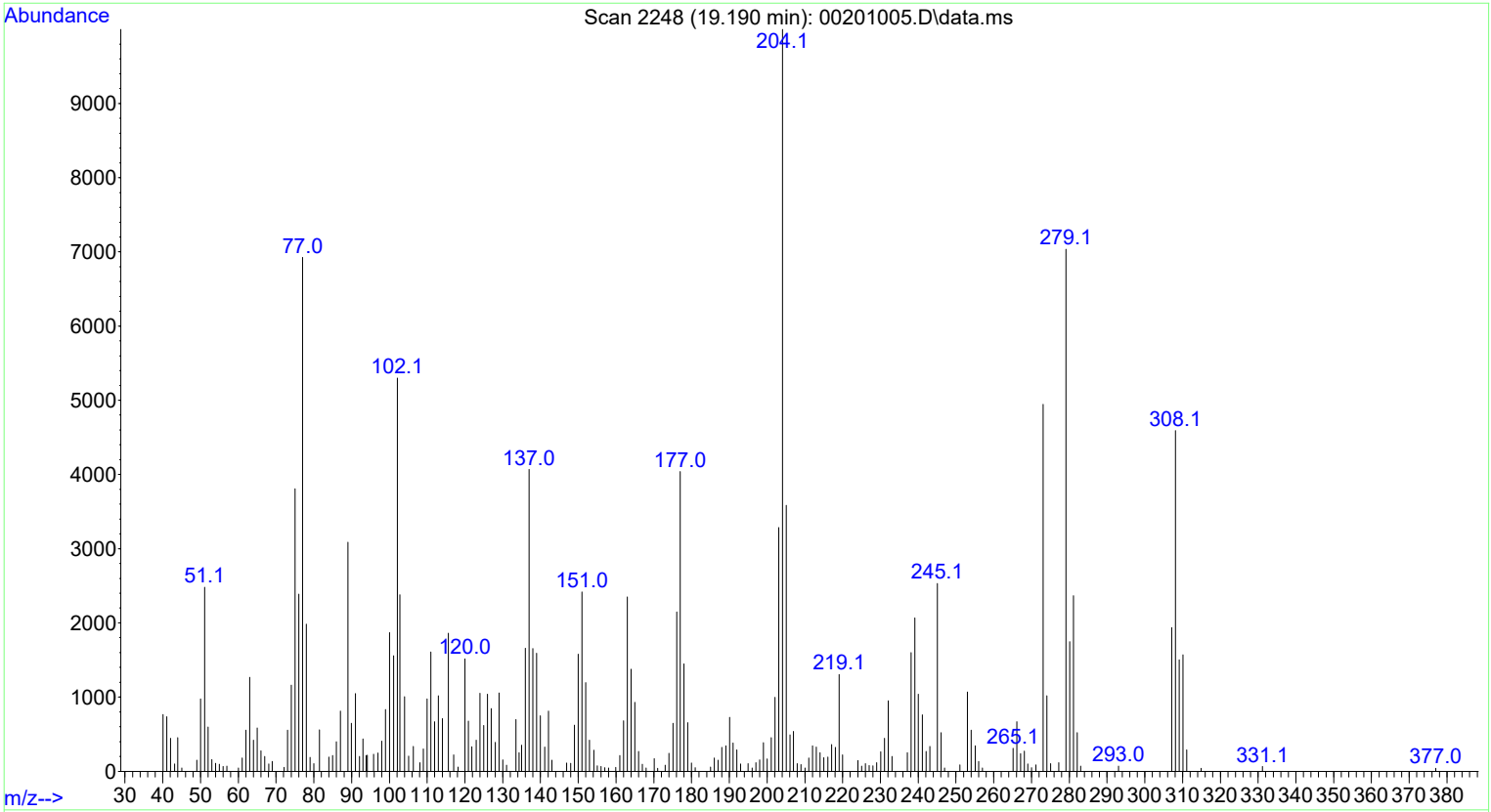


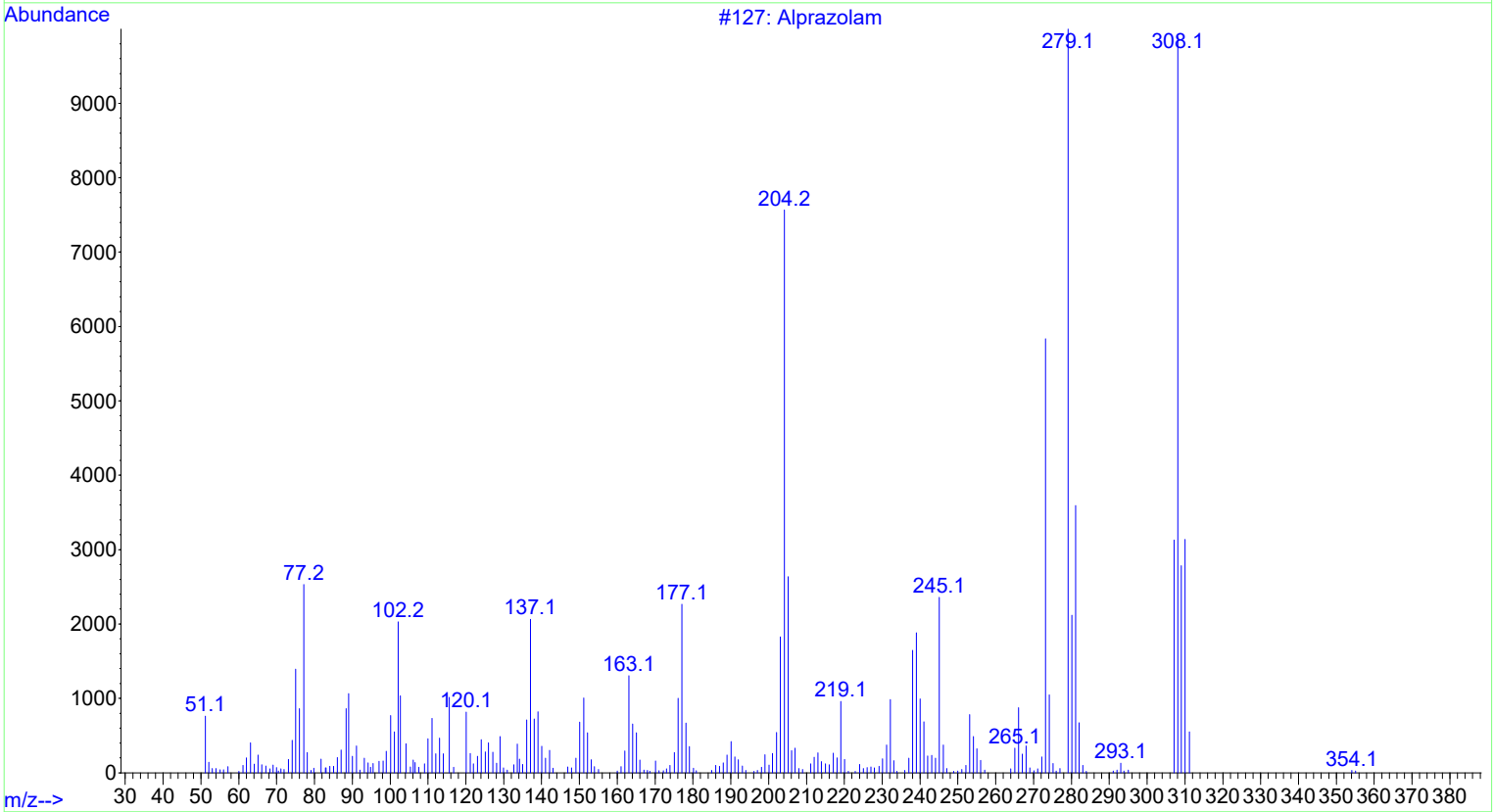
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... 2025 Data\060925\00201005.D
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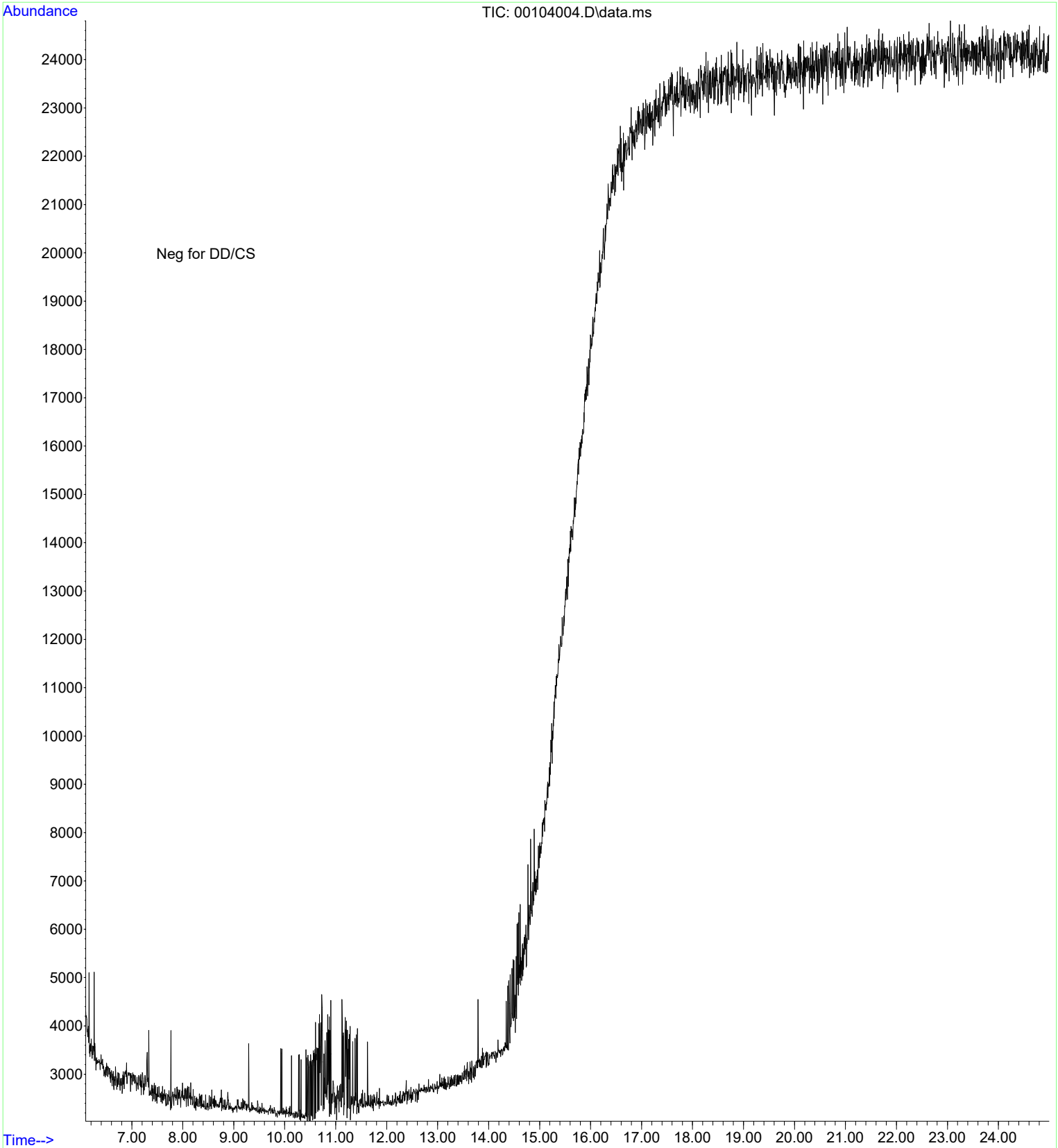


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... 2025 Data\060925\00201005.D
Acquired : 09 Jun 2025 10:35 using AcqMethod DrugTest35MS.M
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Misc Info : in ACN 000002669
Vial Number: 2

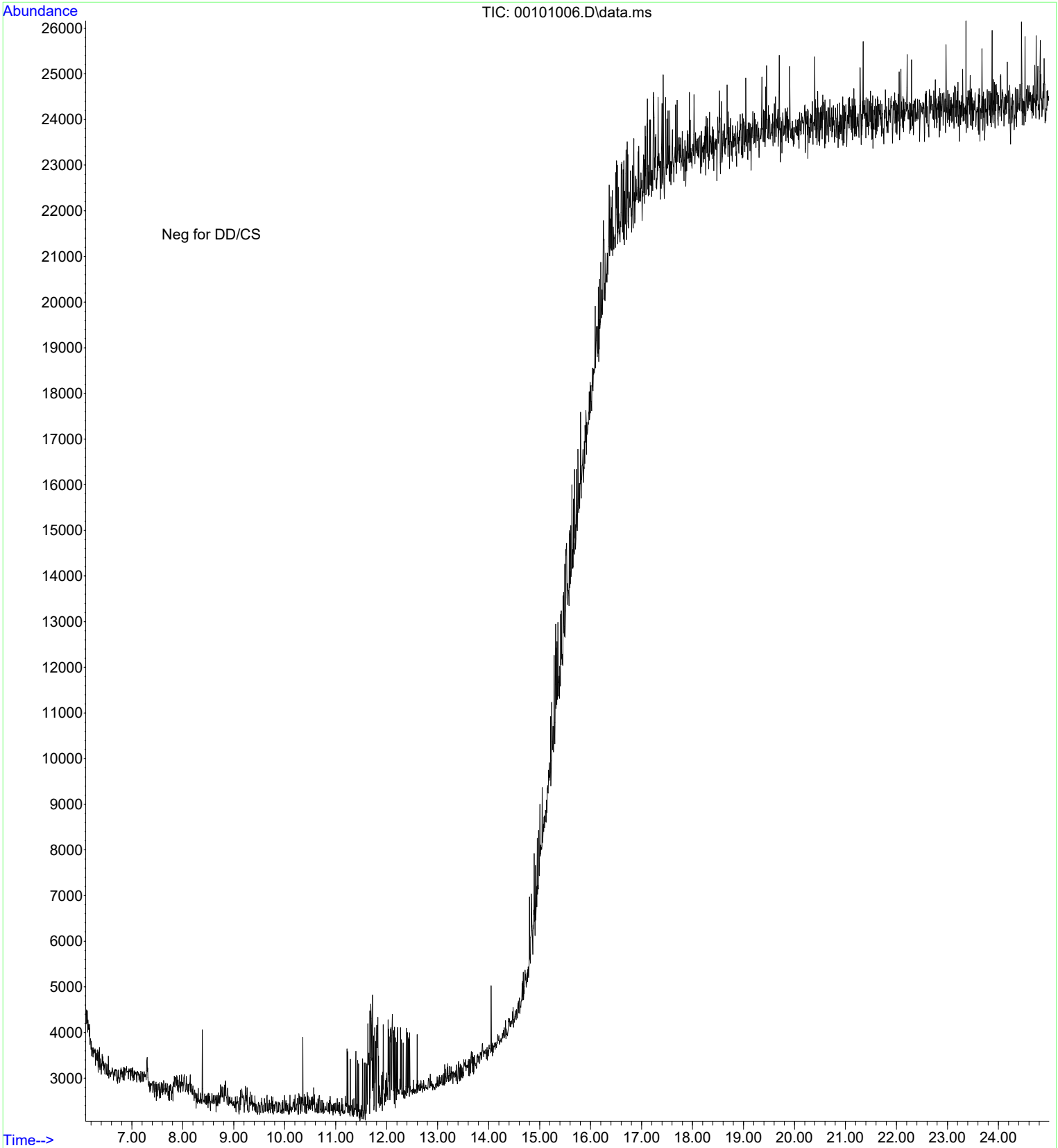




File :D:\MassHunter\GCMS\1\GCMS 4 data\Standards\Weekly Check Mix\
... 2025 Data\060925\00104004.D
Acquired : 09 Jun 2025 10:06 using AcqMethod DrugTest35MS.M
Instrument : GCMS #4
Sample Name: BLANK (C-19-0068) prior to Cayman GC/MS mix 3 (R-24-060) 000002668
Misc Info : ACN 000002668
Vial Number: 1



File :D:\MassHunter\GCMS\1\GCMS 4 data\Standards\Weekly Check Mix\
... 2025 Data\060925\00101006.D
Acquired : 09 Jun 2025 11:04 using AcqMethod DrugTest35MS.M
Instrument : GCMS #4
Sample Name: Blank (C-19-0068) - Instrument ready 000002668
Misc Info : ACN 000002668
Vial Number: 1

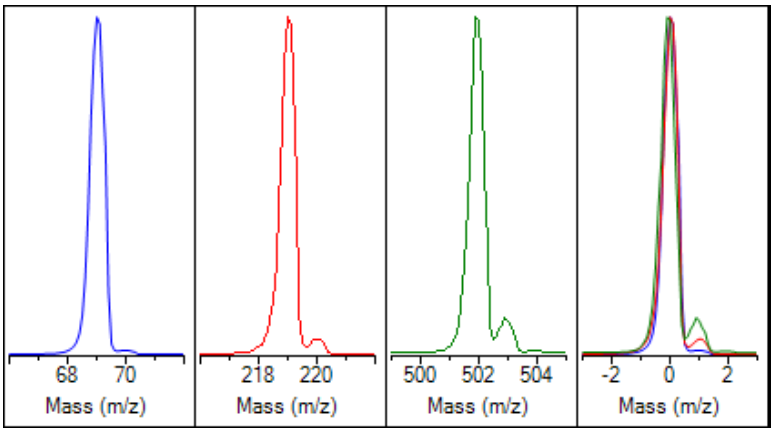


Second attempted tune on 06/16/2025. The 503 ion on this tune evaluation was low, it was decided by the analyst to wait for about a half an hour to see if the system would equilibrate and whether the tune evaluation would pass (the 502 ion ratio was 2.3 and it needed to be 2.4) - DS

High Efficiency Source Autotune - 5977

Tune timestamp: 6/16/2025 10:58 AM (UTC-05:00) GCMS #4

D:\MASSHUNTER\GCMS\1\5977\HES_Atune.u US1837D002



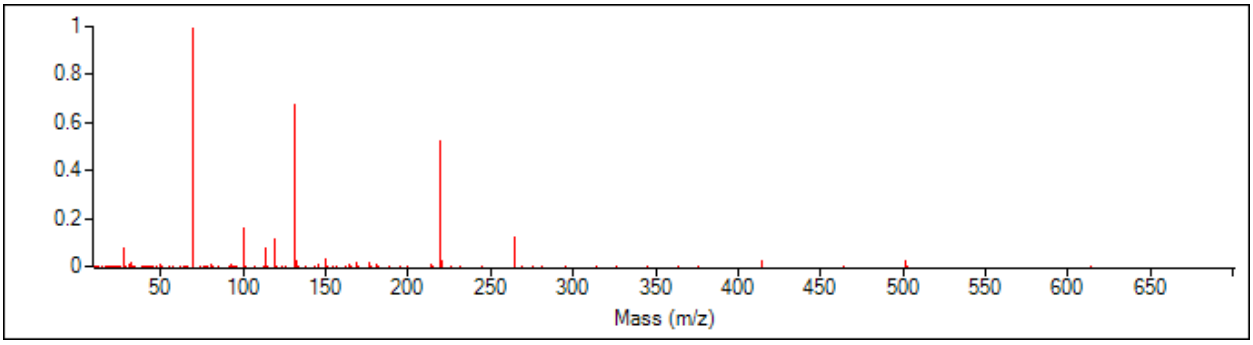
Ion Polarity	Pos	PFTBA	Open
Emission	100.0	Mass Gain	79
Electron Energy	70.0	Mass Offset	-27
Filament	1	Amu Gain	2455
Repeller	12.42	Amu Offset	139.38
Ion Focus	47.9	Width219	0.048
Entrance Lens	12.6	DC Polarity	Pos
Ent Lens Offset	2.29	HED Enable	On
Ion Body	5.25	EM Volts	2147.6
Post Extractor 1	9	Extractor Lens	12.00
Post Extractor 2	30	Scan Speed	3
JetClean Flow Actual/[Setpoint]	0.00 [0.00]	Averages	3

Actual m/z	Abund	Rel Abund	Pw50
69.00	407,701	100.0%	0.60
219.00	193,013	47.3%	0.58
501.90	9,454	2.3%	0.57

Temperatures and Pressures

MS Source	230	Turbo Speed	100.0
MS Quad	150	Hi Vac	7.92e-06

Low	High	Step	Speed	Threshold	Peaks	Base	Abundance	Total Ion
10.00	701.00	0.10	3	100	109	69.00	360,704	1,131,952



Target m/z	Actual m/z	Abund	Rel Abund	Iso m/z	Iso Abund	Iso Ratio
69.00	69.00	360,704	100.0%	70.00	4,279	1.2%
219.00	219.10	189,632	52.6%	220.10	8,330	4.4%
502.00	502.00	8,660	2.4%	503.00	862	10.0%

Air/Water Check: H20 ~0.3% N2 ~8.3% O2 ~2.0% CO2 ~0.2% N2/H20 ~2671.7%

Column(1) Flow: 0.70 Column(2): 0.00 ml/min Interface Temp: 280

Ramp Criteria:

Ion Focus maximum 128 volts using ion 502; Electron Multiplier Gain 18993.024

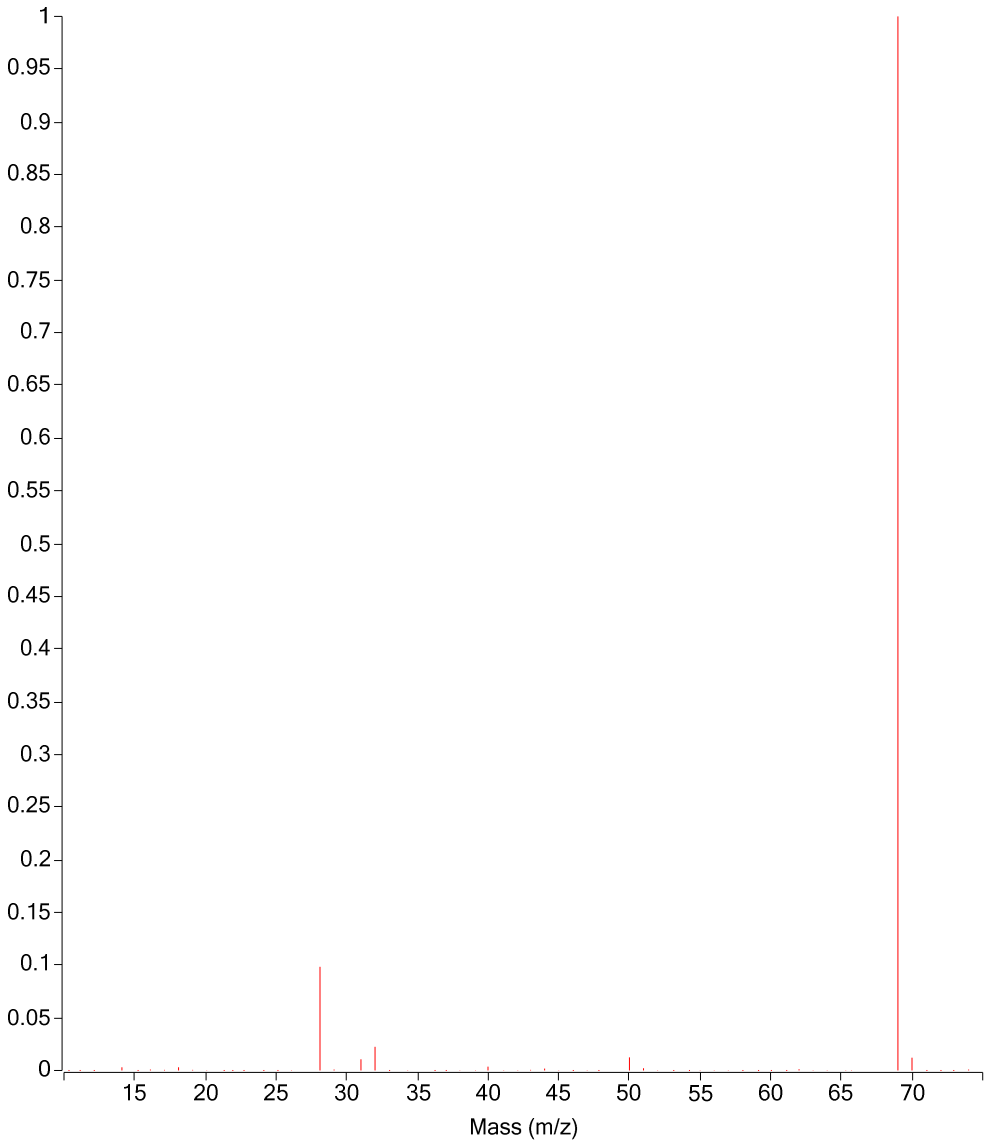
Repeller maximum 35 volts using ion 219; Gain Factor 0.1899

Mass Gain Values(Scan Speed): 89(3) 89(2) 102(1) 119(0) 110(FS1) 154(FS2) 153(FS3)

TARGET MASS:	50	69	131	219	414	502	1050
Amu Offset	139.4	139.4	139.4	139.4	139.4	139.4	139.4
Entrance Lens Offset	2.3	2.3	2.3	2.3	2.3	2.3	2.3

597x Air and Water Check

Instrument: GCMS #4
Mon Jun 16 10:47:53 2025 D:\MASSHUNTER\GCMS\1\5977\



Current Params used: HES_Atune.u

Relative abundances:

18/69 =	0.31	Water%		(counts=1474)
28/69 =	9.84	Nitrogen%	Elevated nitrogen - DS	(counts=46200)
32/69 =	2.24	Oxygen%		(counts=10511)
44/69 =	0.19	Carbon Dioxide%		(counts=885)
28/18 =	3134.33	Nitrogen/Water%		

Instrument Name : GCMS #4
DC Polarity : Positive
Filament 1
Current Vacuum status :High Vacuum: 5.75E-06 Torr Turbo:100%

BasePeak should be 69 or 219		OK
Position of mass 69	69.00	OK
Position of mass 219	219.10	OK
Position of mass 502	502.01	OK
Position of isotope mass 70	70.00	OK
Position of isotope mass 220	220.09	OK
Position of isotope mass 503	503.01	OK
Ratio of mass 70 to mass 69(0.5 - 1.6%)	1.19	OK
Ratio of mass 220 to mass 219(3.2 - 5.4%)	4.44	OK
Ratio of mass 503 to mass 502(7.9 - 12.3%)	10.24	OK
Ratio of 219 to 69 should be > 40% and is	51.92	OK
Ratio of 502 to 69 should be > 2.4% and is	2.36	Low

Possible causes include: Bad vacuum, vacuum leaks or faulty pumps
Bad filament being used
Dirty ion source

502 ion ratio too low - should be 2.4 but is only 2.36. System will be allowed to equilibrate for thirty minutes to an hour and tune evaluation rerun to determine if 502 ion ratio will elevate - DS

Mass 69 Precursor (<= 3%)	1.02	OK
Mass 219 Precursor (<= 6%)	4.63	OK
Mass 502 Precursor (<= 12%)	4.30	OK

597x Air and Water Check
Mon Jun 16 11:18:20 2025 Instrument: GCMS #4
D:\MASSHUNTER\GCMS\1\5977\HES_Atune.u US1837D002

Testing for a leak in the system		
Ratio of 18 to 69 (<20%)	0.33	OK
Ratio of 28 to 69 (<10%)	7.94	OK
Electron Multiplier Voltage	2148	OK

One or more specifications was out of range.
Please correct before continuing.

Failure of one or more tests may be caused by
selecting the wrong DC Polarity.
Please verify that the correct DC Polarity has been set
by removing the detector cover and checking the label
at the top of the EID.

Instrument Name : GCMS #4
DC Polarity : Positive
Filament 1
Current Vacuum status :High Vacuum: 6.47E-06 Torr Turbo:100%

BasePeak should be 69 or 219		OK
Position of mass 69	69.09	OK
Position of mass 219	219.07	OK
Position of mass 502	501.99	OK
Position of isotope mass 70	70.00	OK
Position of isotope mass 220	220.06	OK
Position of isotope mass 503	502.93	OK
Ratio of mass 70 to mass 69(0.5 - 1.6%)	1.18	OK
Ratio of mass 220 to mass 219(3.2 - 5.4%)	4.49	OK
Ratio of mass 503 to mass 502(7.9 - 12.3%)	9.95	OK
Ratio of 219 to 69 should be > 40% and is	51.08	OK
Ratio of 502 to 69 should be > 2.4% and is	2.52	OK
Mass 69 Precursor (<= 3%)	1.44	OK
Mass 219 Precursor (<= 6%)	5.01	OK
Mass 502 Precursor (<= 12%)	5.39	OK

597x Air and Water Check
Mon Jun 16 12:42:21 2025 Instrument: GCMS #4
D:\MASSHUNTER\GCMS\1\5977\HES_Atune.u US1837D002

Testing for a leak in the system

Ratio of 18 to 69 (<20%)	0.33	OK
Ratio of 28 to 69 (<10%)	6.72	OK
Electron Multiplier Voltage	2148	OK

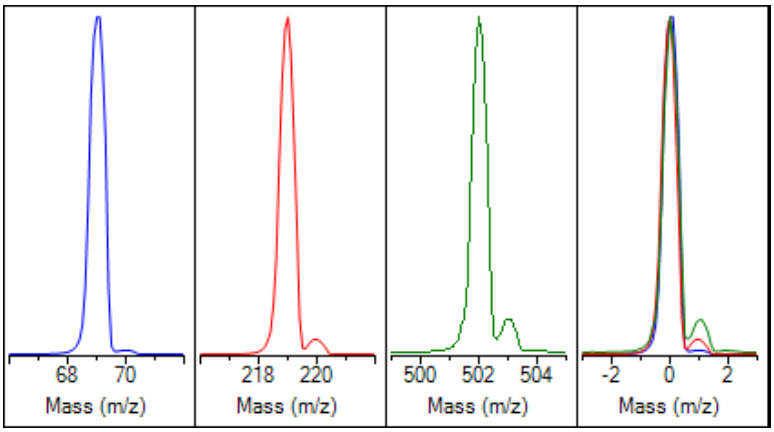
Tune portion of System Verification passed.

Initial tune - Nitrogen and 502 ion failed on this tune - system will be tuned again after column nut tightened and allowing system to purge for several minutes - DS

High Efficiency Source Autotune - 5977

Tune timestamp: 6/16/2025 10:45 AM (UTC-05:00) GCMS #4

D:\MASSHUNTER\GCMS\1\5977\HES_Atune.u US1837D002



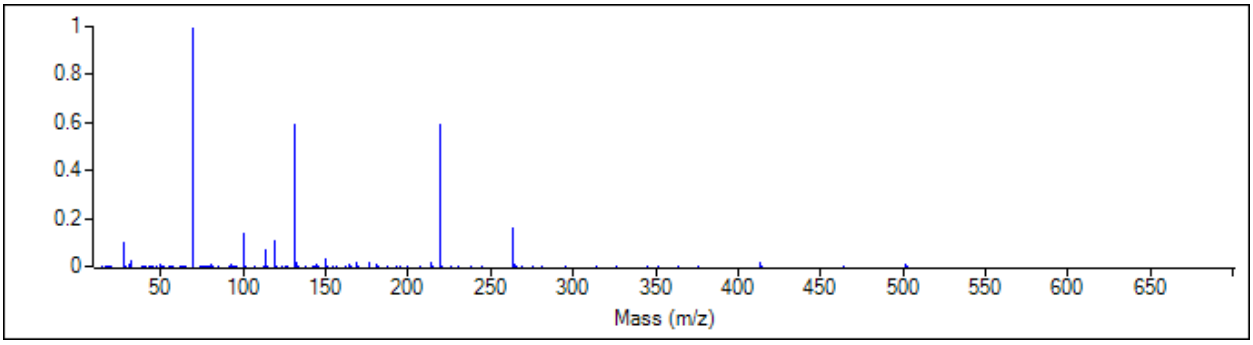
Ion Polarity	Pos	PFTBA	Open
Emission	100.0	Mass Gain	91
Electron Energy	70.0	Mass Offset	-27
Filament	1	Amu Gain	2466
Repeller	12.05	Amu Offset	134.63
Ion Focus	136.7	Width219	0.005
Entrance Lens	27.7	DC Polarity	Pos
Ent Lens Offset	16.89	HED Enable	On
Ion Body	4.25	EM Volts	2089.4
Post Extractor 1	10	Extractor Lens	11.20
Post Extractor 2	31	Scan Speed	3
JetClean Flow Actual/[Setpoint]	0.00 [0.00]	Averages	3

Actual m/z	Abund	Rel Abund	Pw50
69.10	493,136	100.0%	0.61
219.00	307,078	62.3%	0.59
502.00	6,971	1.4%	0.60

Temperatures and Pressures

MS Source	230	Turbo Speed	100.0
MS Quad	150	Hi Vac	7.66e-06

Low	High	Step	Speed	Threshold	Peaks	Base	Abundance	Total Ion
10.00	701.00	0.10	3	100	108	69.00	475,264	1,493,091



Target m/z	Actual m/z	Abund	Rel Abund	Iso m/z	Iso Abund	Iso Ratio
69.00	69.00	475,264	100.0%	70.00	5,648	1.2%
219.00	219.00	283,712	59.7%	219.90	12,797	4.5%
502.00	502.00	6,494	1.4%	503.00	728	11.2%

Air/Water Check: H20 ~0.3% N2 ~10.0% O2 ~2.2% CO2 ~0.2% N2/H20 ~3069.3%

Column(1) Flow: 0.70 Column(2): 0.00 ml/min Interface Temp: 280

Ramp Criteria:

Ion Focus maximum 128 volts using ion 502; Electron Multiplier Gain 12329.375

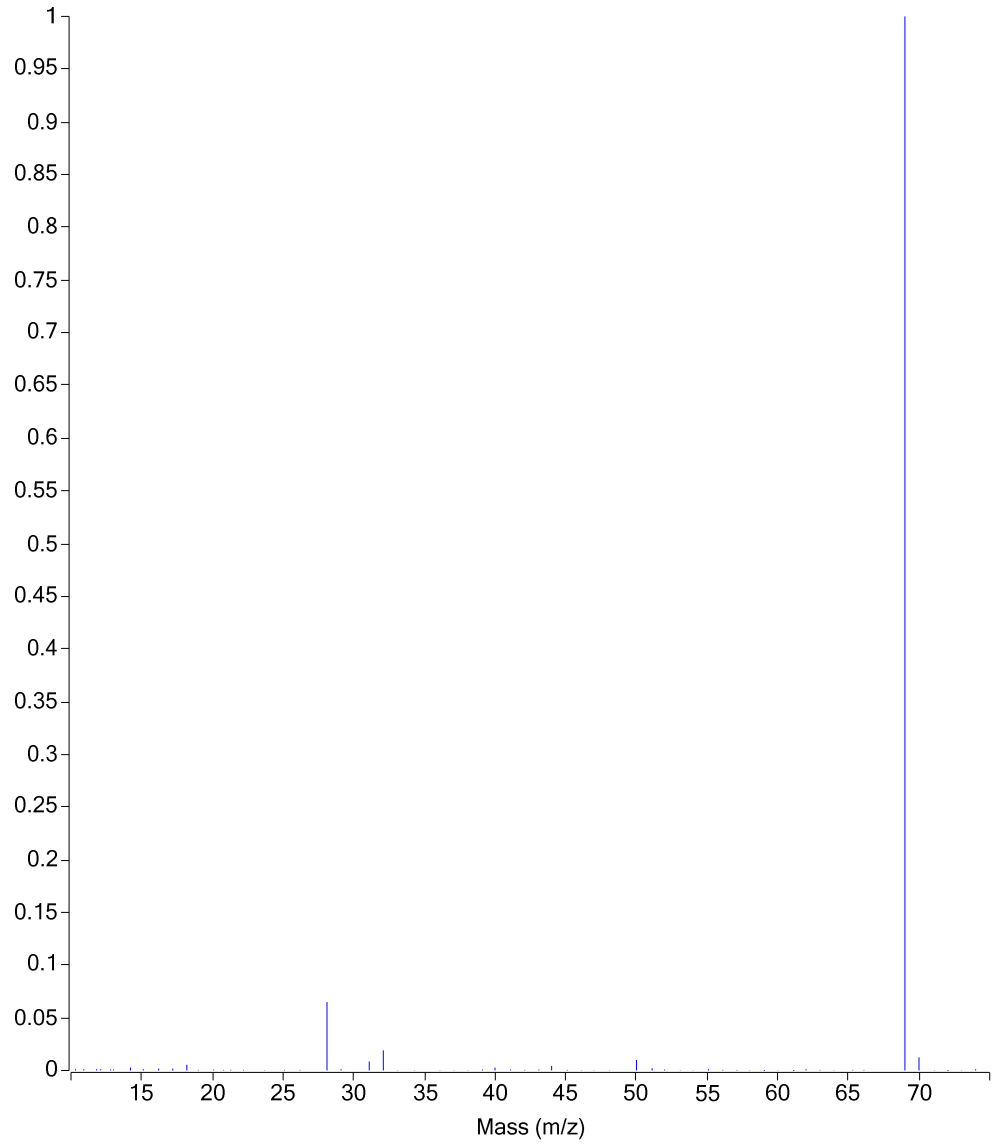
Repeller maximum 35 volts using ion 219; Gain Factor 0.1233

Mass Gain Values(Scan Speed): 87(3) 87(2) 93(1) 103(0) 155(FS1) 164(FS2) 152(FS3)

TARGET MASS:	50	69	131	219	414	502	1050
Amu Offset	134.6	134.6	134.6	134.6	134.6	134.6	134.6
Entrance Lens Offset	16.9	16.9	16.9	16.9	16.9	16.9	16.9

597x Air and Water Check

Instrument: GCMS #4
Mon Jun 16 10:35:43 2025 D:\MassHunter\GCMS\1\5977\



Current Params used: HES_Atune.u

Relative abundances:

18/69 =	0.56	Water%	(counts=3833)
28/69 =	6.49	Nitrogen%	(counts=44344)
32/69 =	1.92	Oxygen%	(counts=13115)
44/69 =	0.42	Carbon Dioxide%	(counts=2898)
28/18 =	1156.90	Nitrogen/Water%	

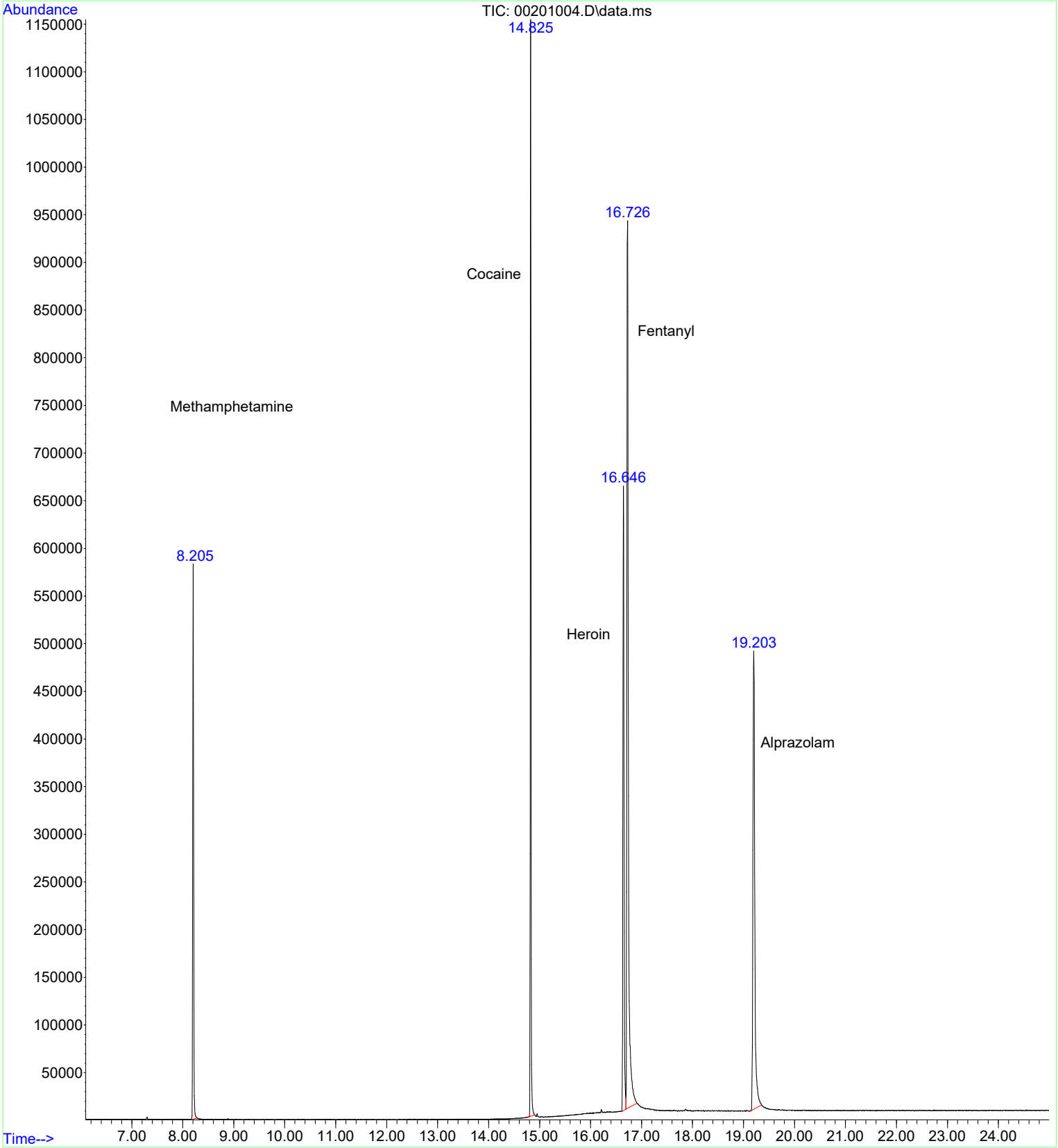
BCCL GC/MS #4
Retention Times for the Week of:

06/16/2025 - 06/22/2025

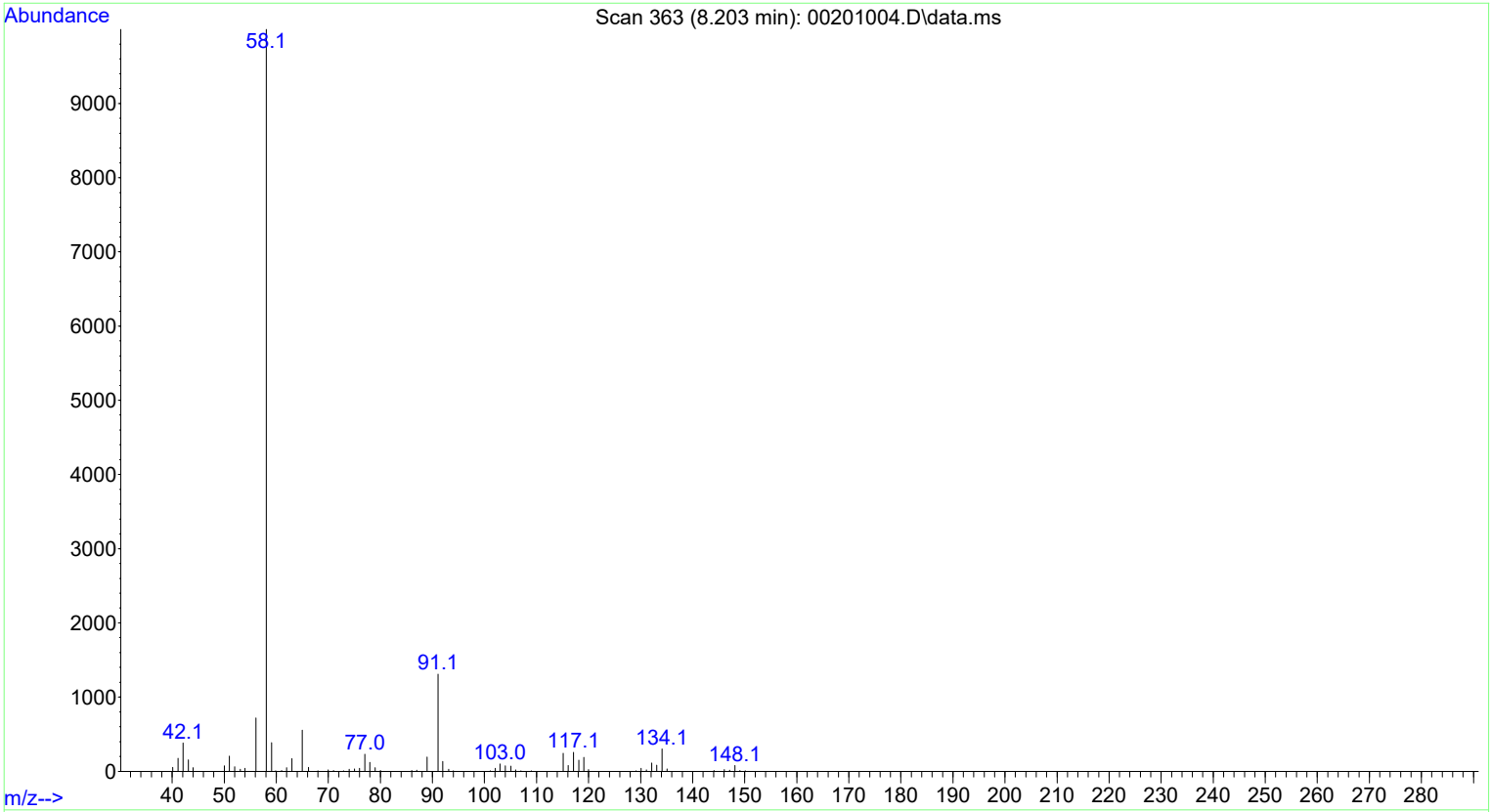
[X] **Tune: DS 06/16/2025 - HES Autotune**

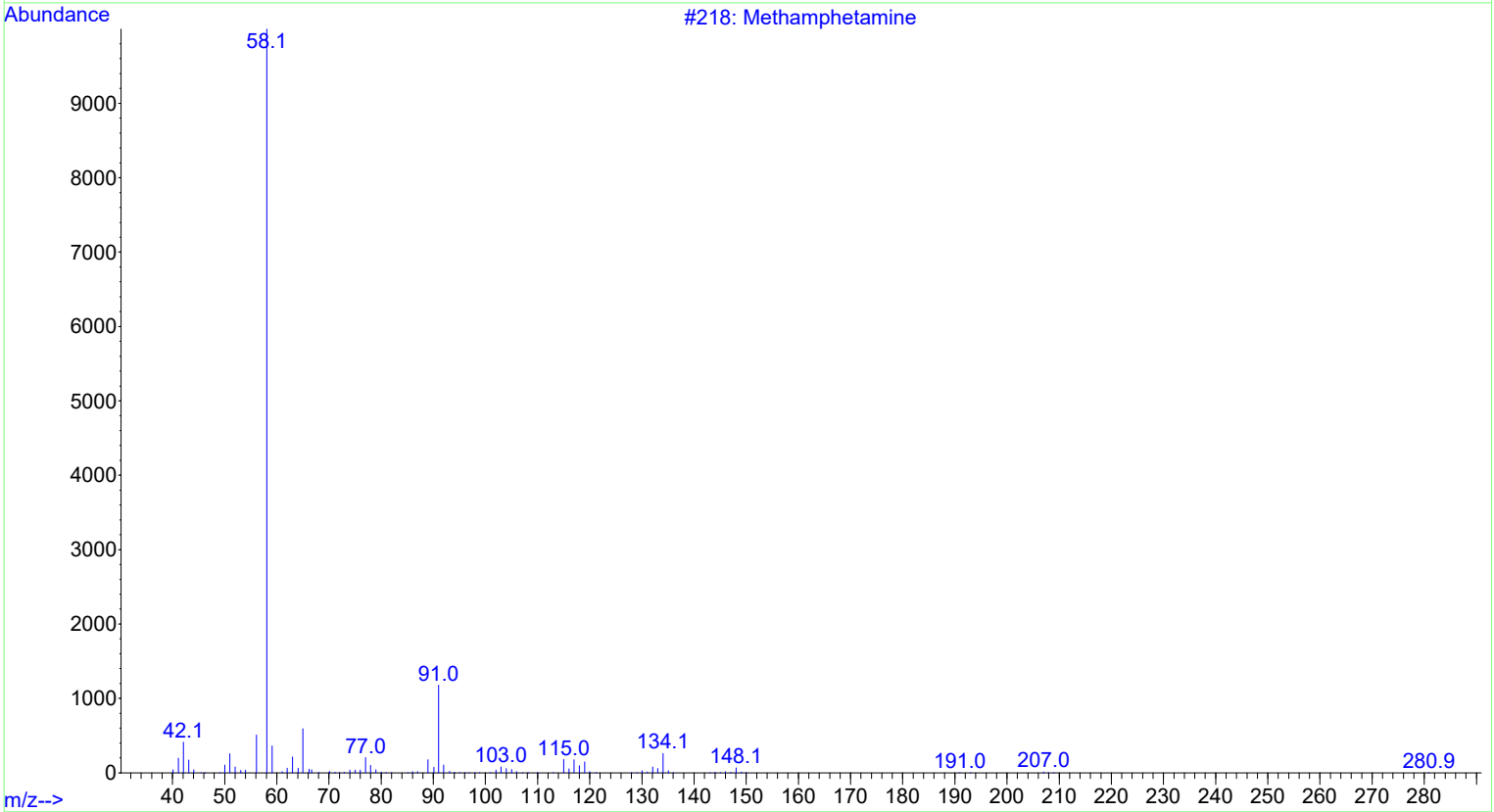
Standard	Standard #	Method	Retention Time	1% Window	
Methamphetamine	R-24-060	DrugTest35MS	8.205	8.122	8.287
Cocaine	R-24-060	DrugTest35MS	14.825	14.676	14.973
Heroin	R-24-060	DrugTest35MS	16.646	16.479	16.812
Fentanyl	R-24-060	DrugTest35MS	16.726	16.558	16.893
Alprazolam	R-24-060	DrugTest35MS	19.203	19.010	19.395

File :D:\MassHunter\GCMS\1\GCMS 4 data\Standards\Weekly Check Mix\
... 2025 Data\061625\00201004.D
Acquired : 16 Jun 2025 14:22 using AcqMethod DrugTest35MS.M
Instrument : GCMS #4
Sample Name: Cayman GC/MS mix 3 (R-24-060) 000002669
Misc Info : in ACN 000002669
Vial Number: 2

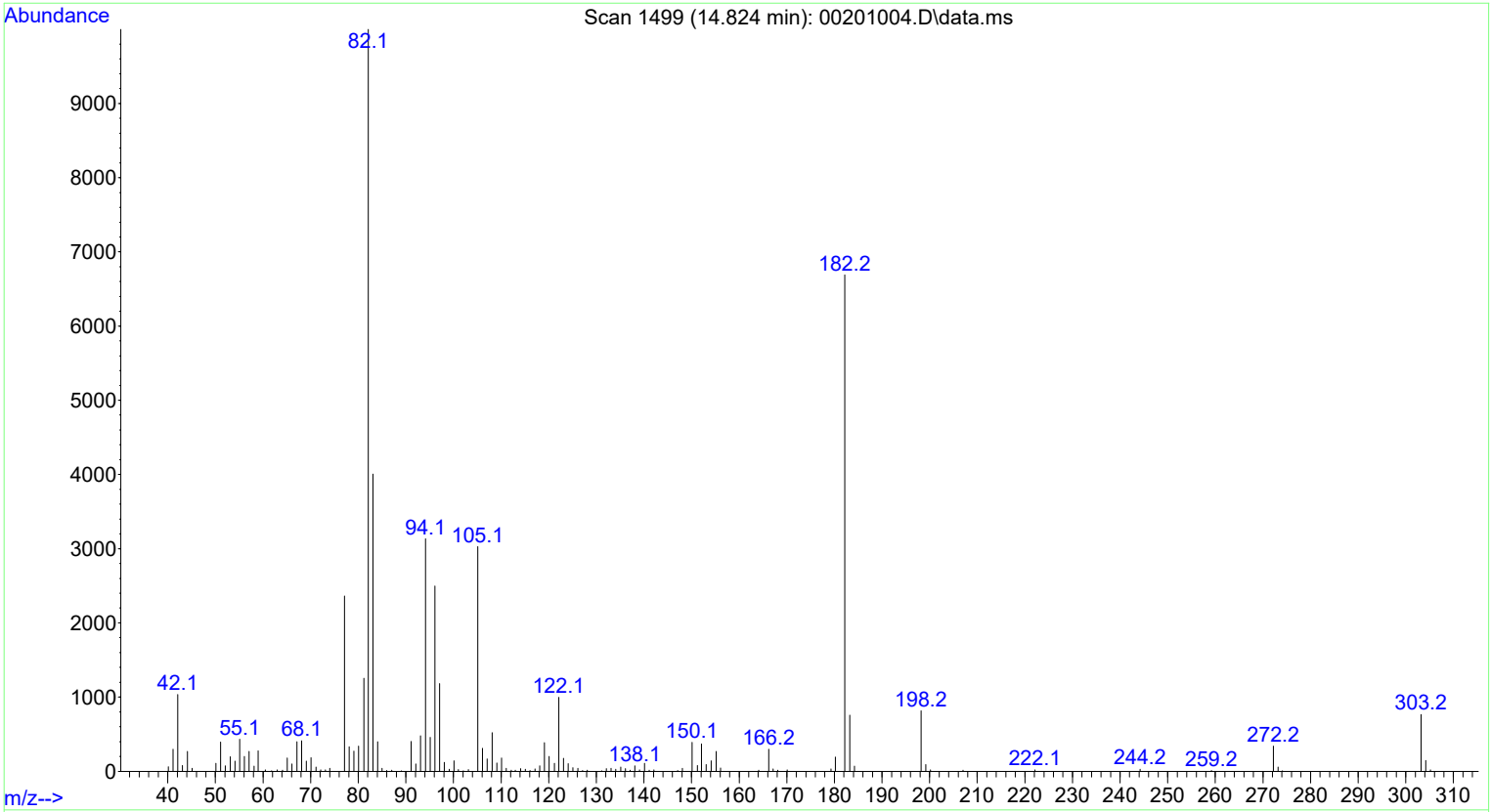


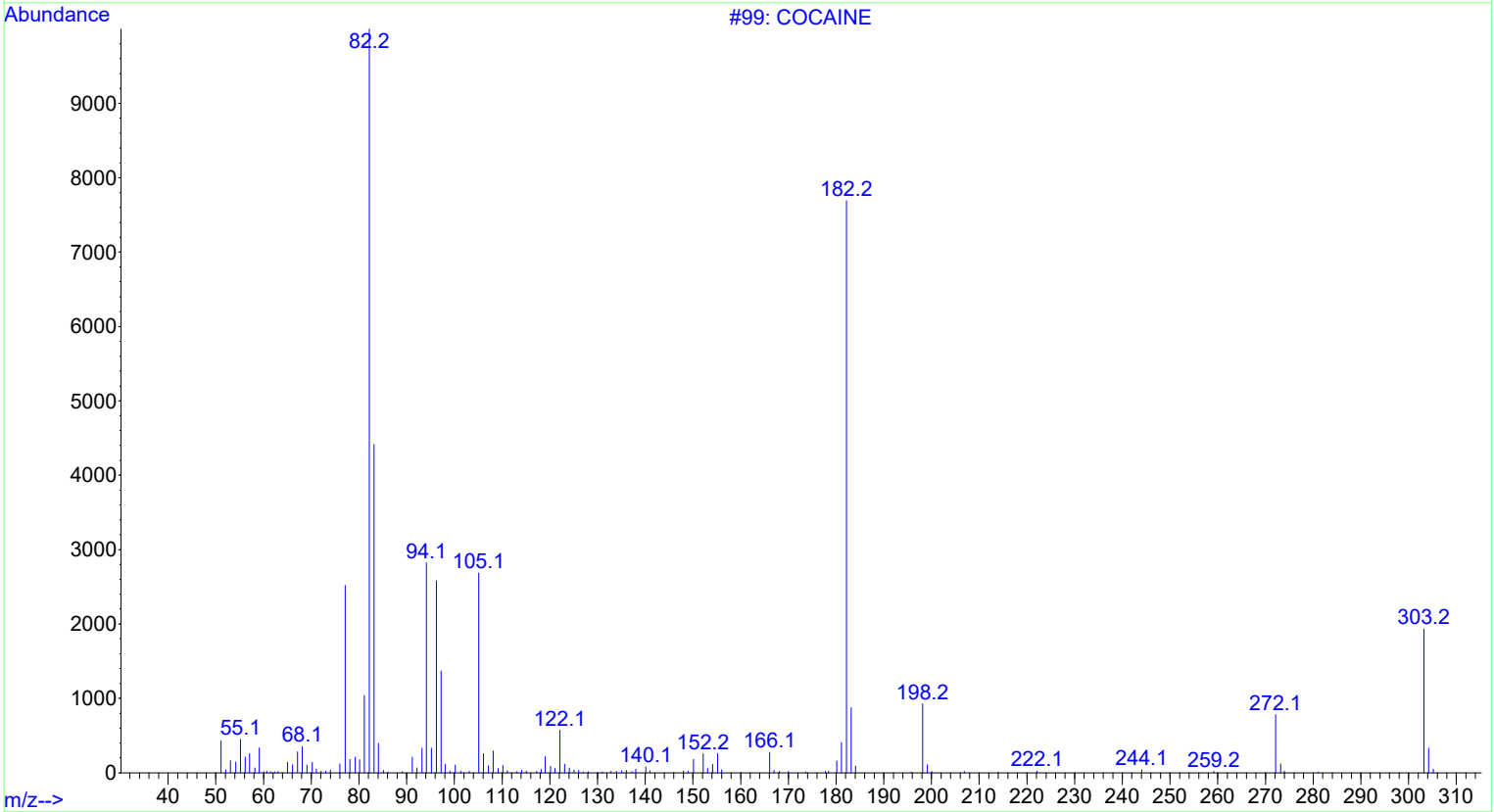
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... 2025 Data\061625\00201004.D
Acquired : 16 Jun 2025 14:22 using AcqMethod DrugTest35MS.M
Instrument : GCMS #4
Sample Name: Cayman GC/MS mix 3 (R-24-060) 000002669
Misc Info : in ACN 000002669
Vial Number: 2



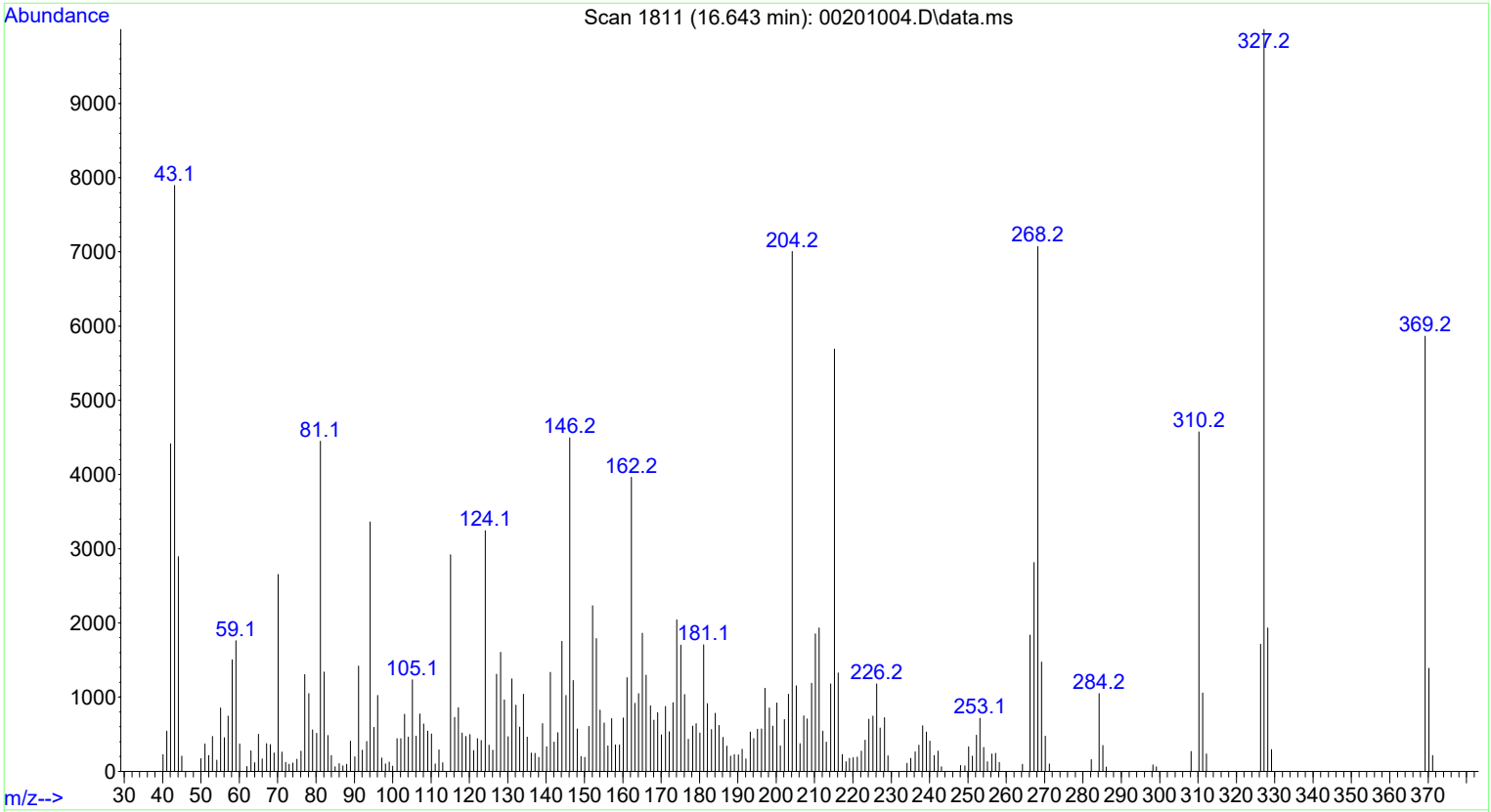


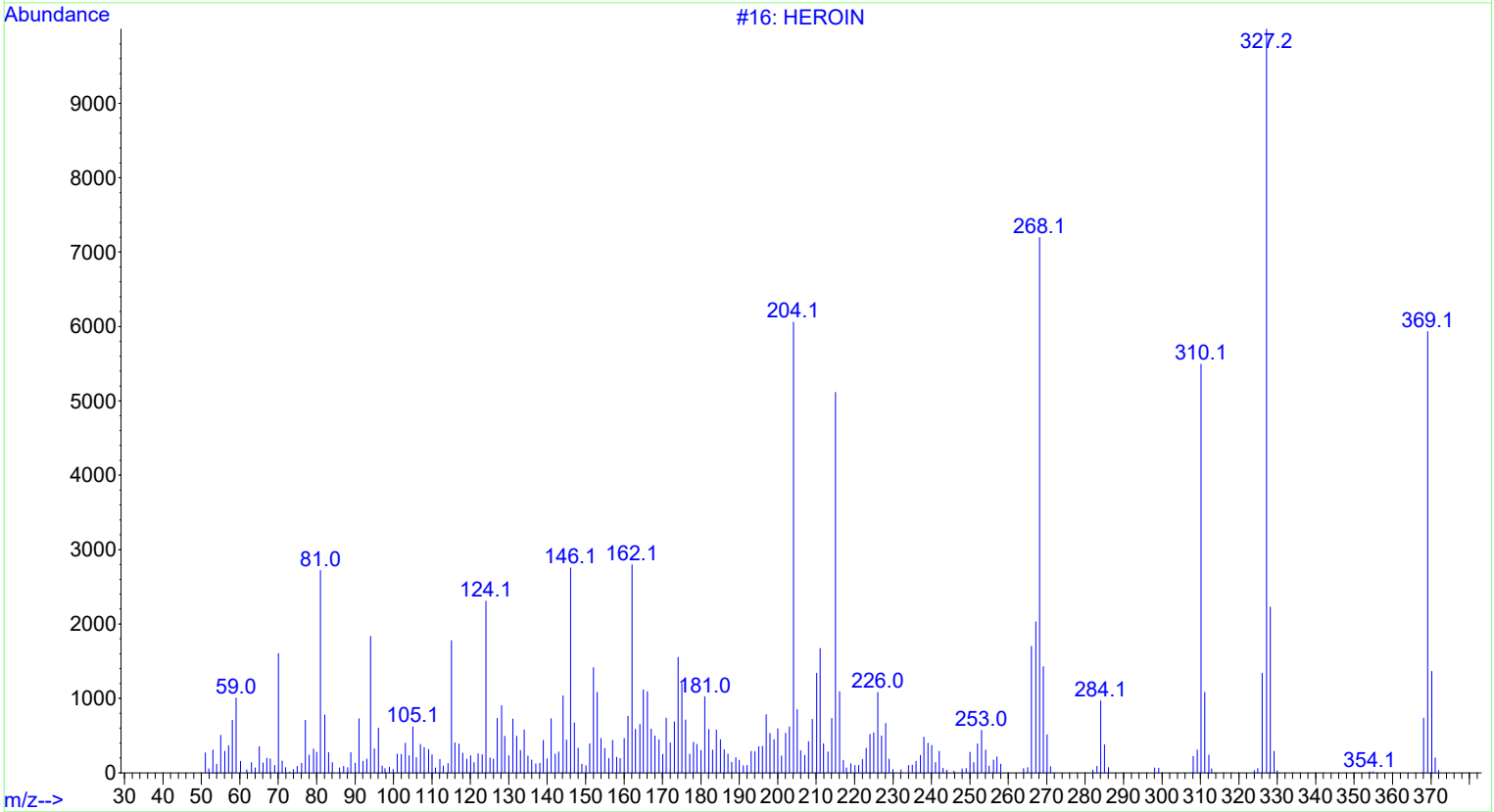
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... 2025 Data\061625\00201004.D
Acquired : 16 Jun 2025 14:22 using AcqMethod DrugTest35MS.M
Instrument : GCMS #4
Sample Name: Cayman GC/MS mix 3 (R-24-060) 000002669
Misc Info : in ACN 000002669
Vial Number: 2



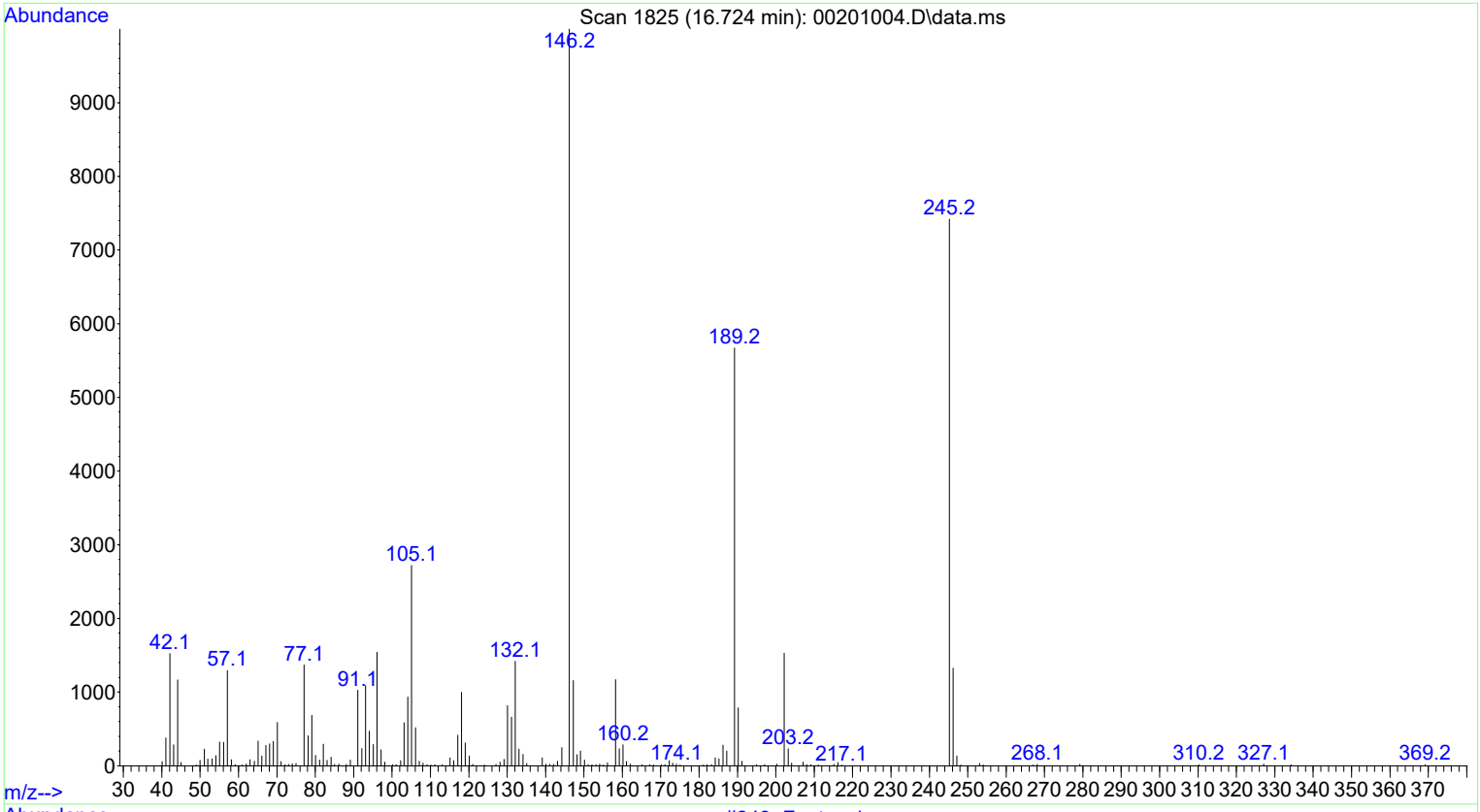


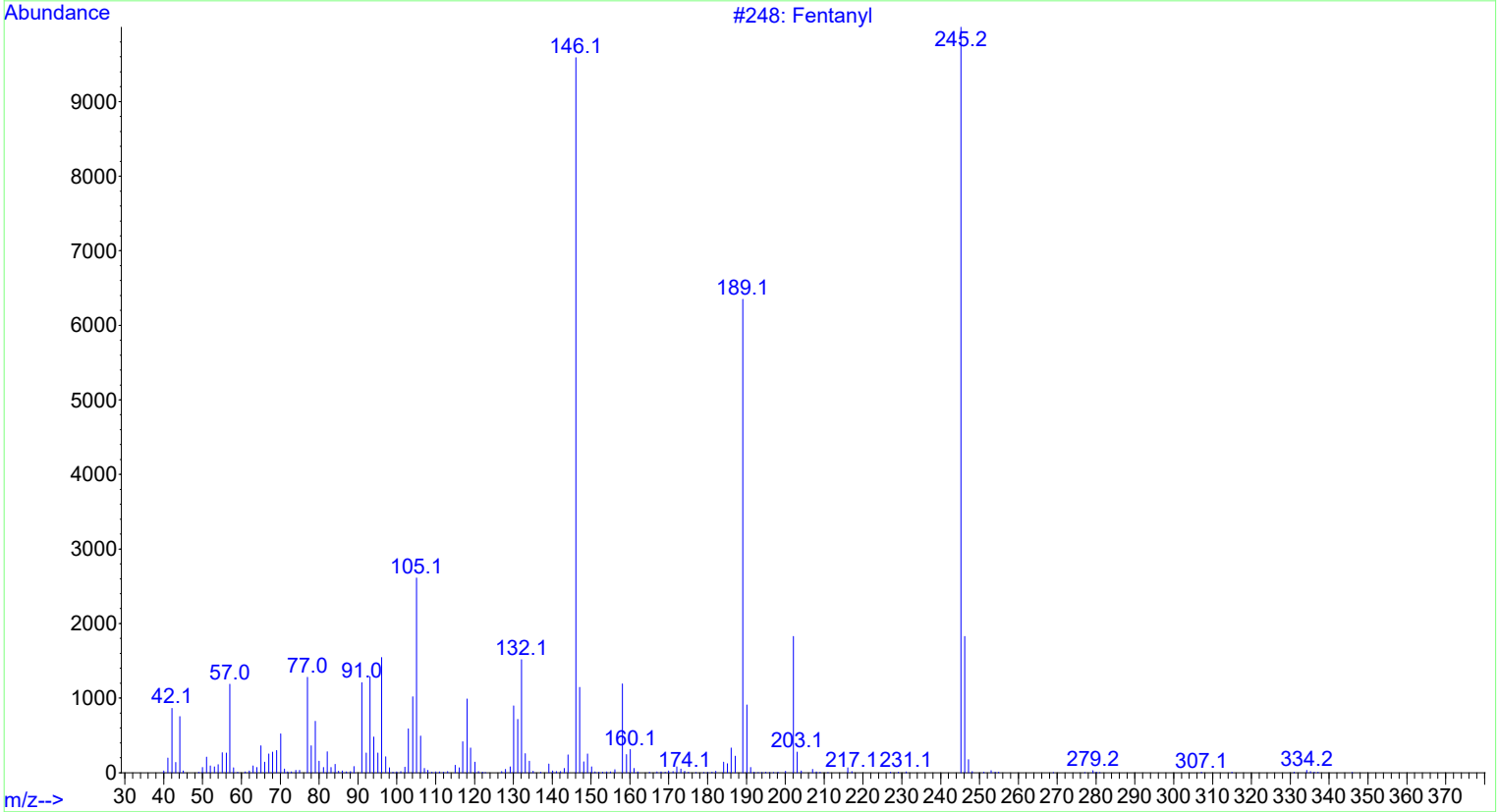
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... 2025 Data\061625\00201004.D
Acquired : 16 Jun 2025 14:22 using AcqMethod DrugTest35MS.M
Instrument : GCMS #4
Sample Name: Cayman GC/MS mix 3 (R-24-060) 000002669
Misc Info : in ACN 000002669
Vial Number: 2



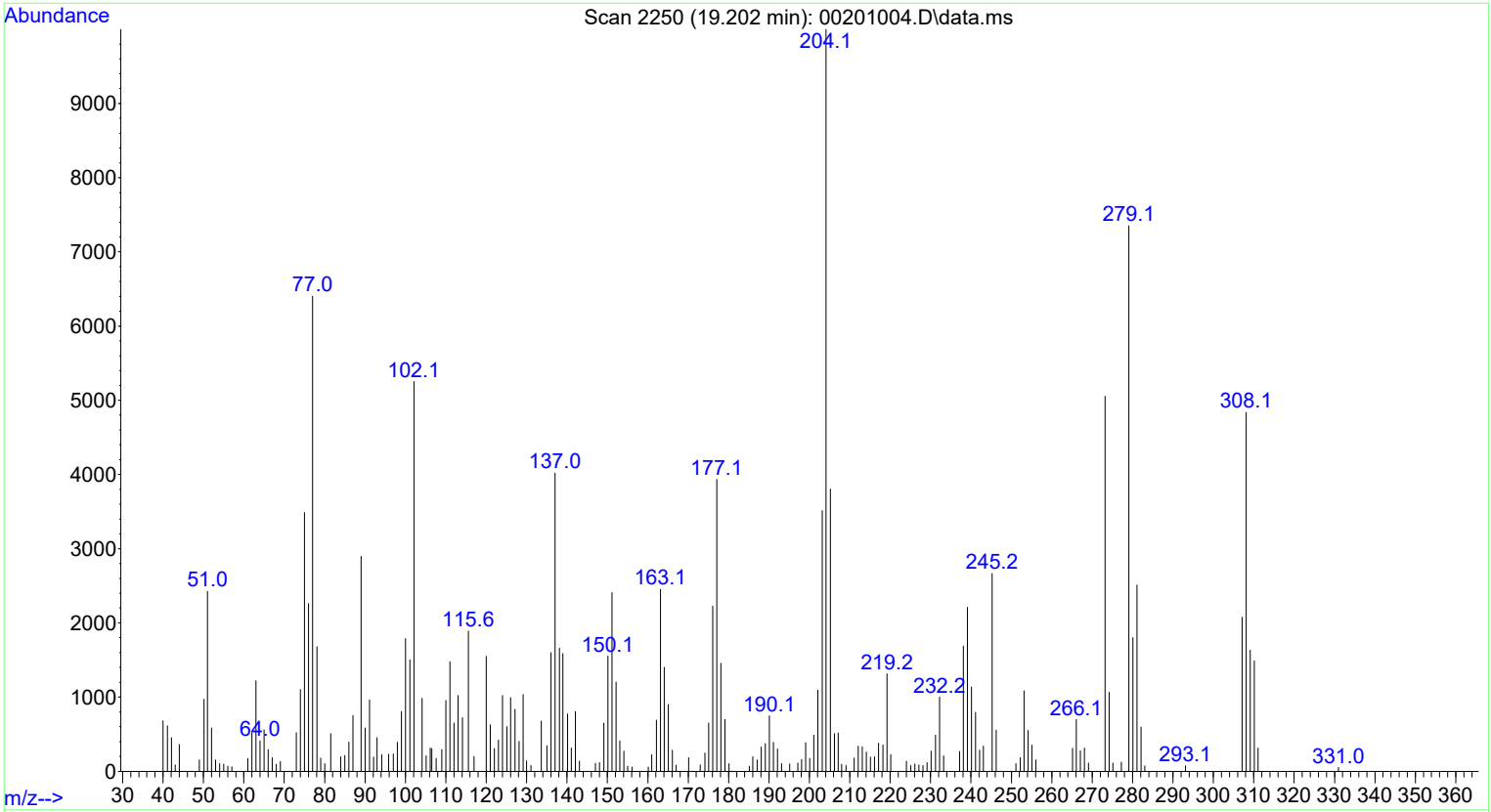


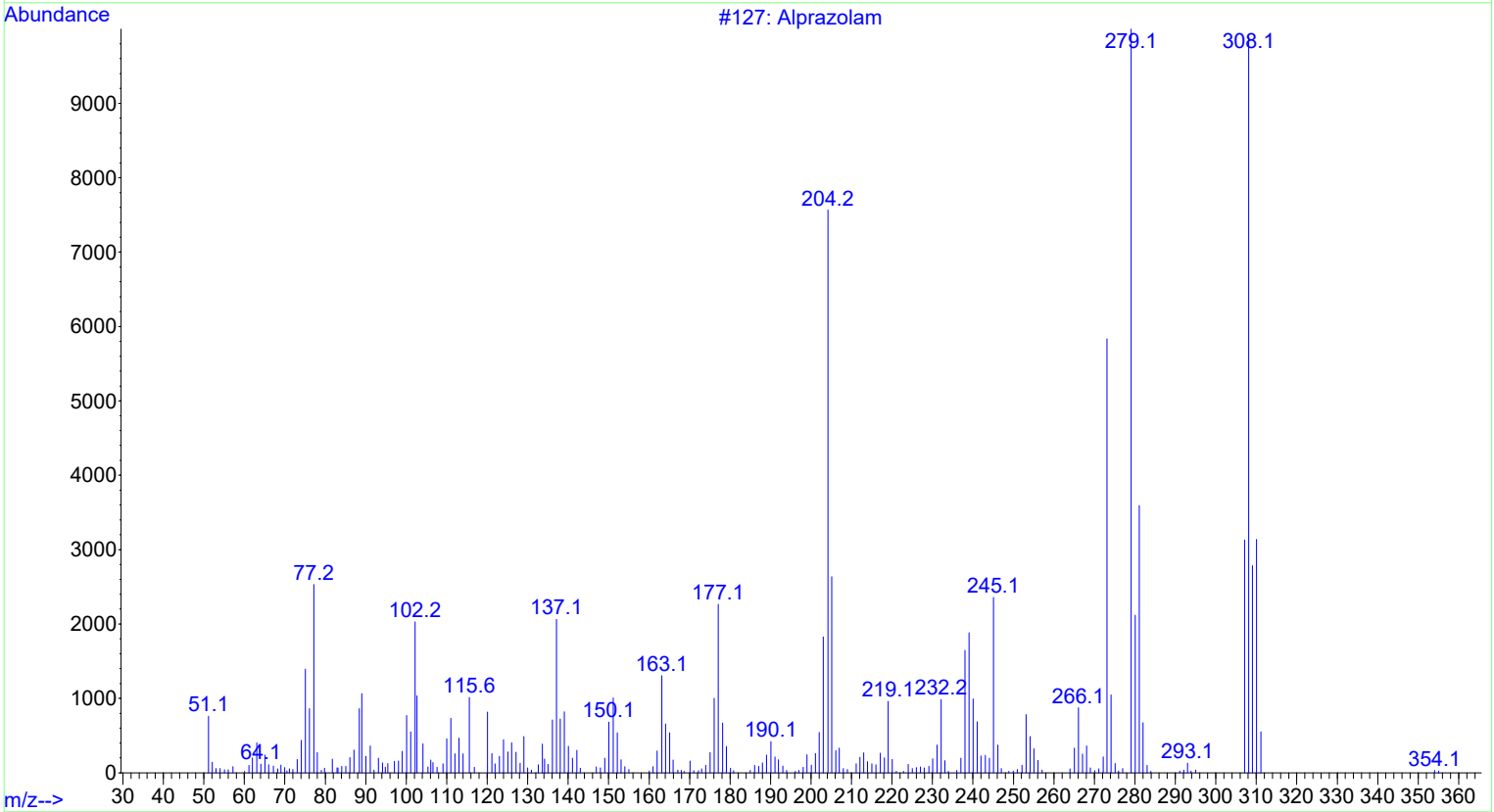
File :D:\MassHunter\GCMS\1\GCMS 4 data\Standards\Weekly Check Mix\
... 2025 Data\061625\00201004.D
Acquired : 16 Jun 2025 14:22 using AcqMethod DrugTest35MS.M
Instrument : GCMS #4
Sample Name: Cayman GC/MS mix 3 (R-24-060) 000002669
Misc Info : in ACN 000002669
Vial Number: 2



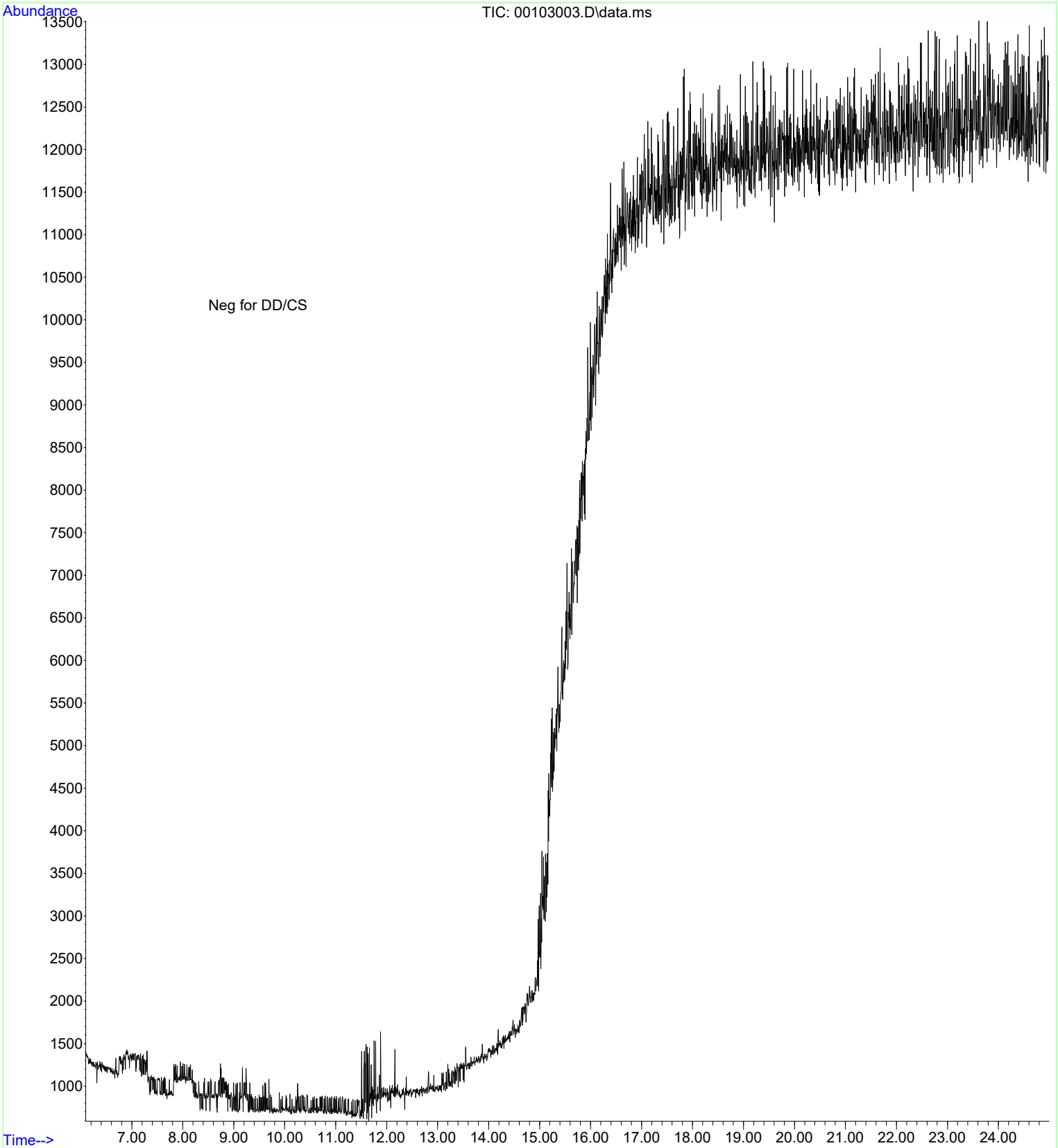


File :D:\MassHunter\GCMS\1\GCMS 4 data\Standards\Weekly Check Mix\
... 2025 Data\061625\00201004.D
Acquired : 16 Jun 2025 14:22 using AcqMethod DrugTest35MS.M
Instrument : GCMS #4
Sample Name: Cayman GC/MS mix 3 (R-24-060) 000002669
Misc Info : in ACN 000002669
Vial Number: 2

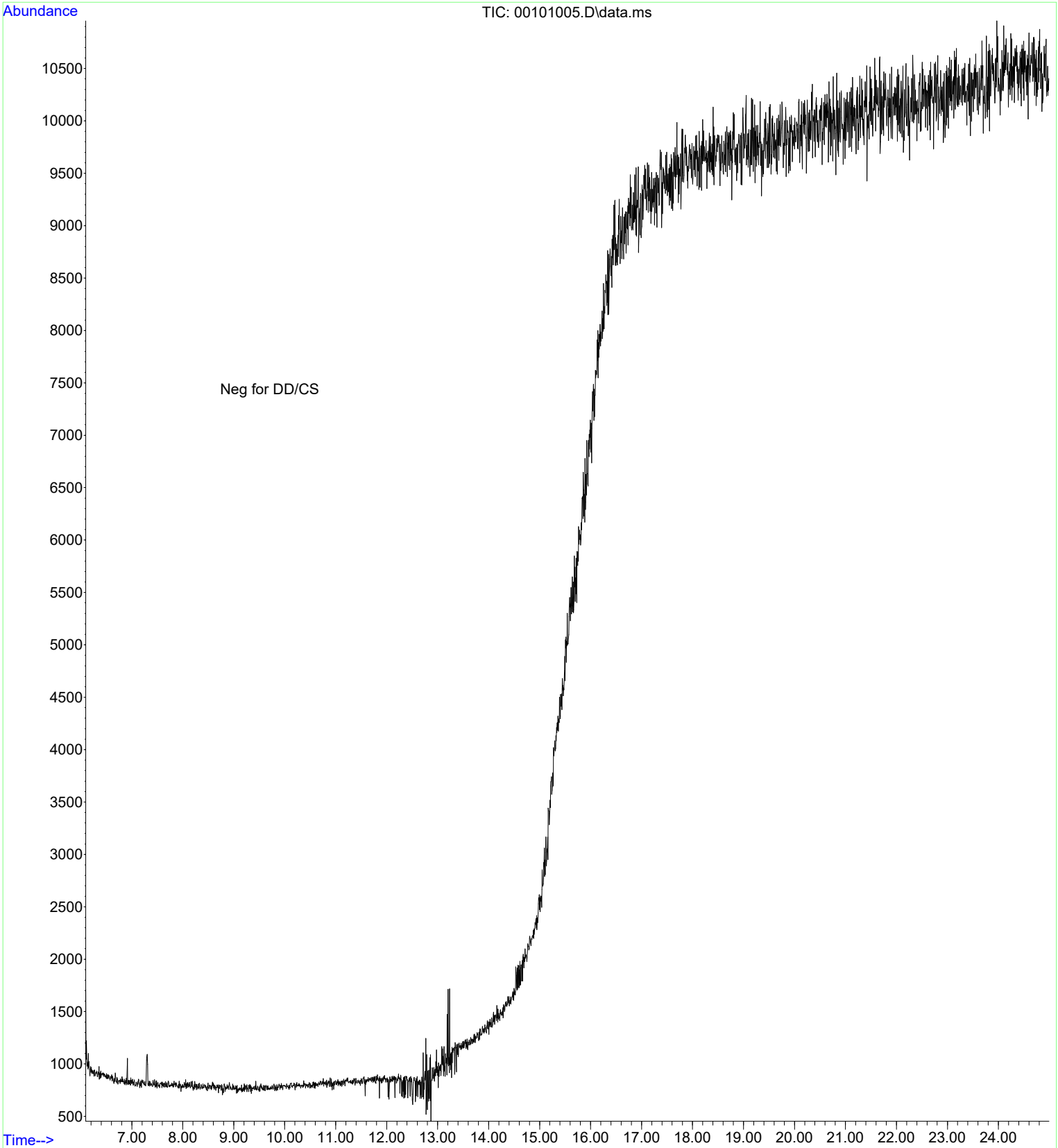




File :D:\MassHunter\GCMS\1\GCMS 4 data\Standards\Weekly Check Mix\
... 2025 Data\061625\00103003.D
Acquired : 16 Jun 2025 13:53 using AcqMethod DrugTest35MS.M
Instrument : GCMS #4
Sample Name: BLANK (C-19-0068) prior to Cayman GC/MS mix 3 (R-24-060) 000002668
Misc Info : ACN 000002668
Vial Number: 1



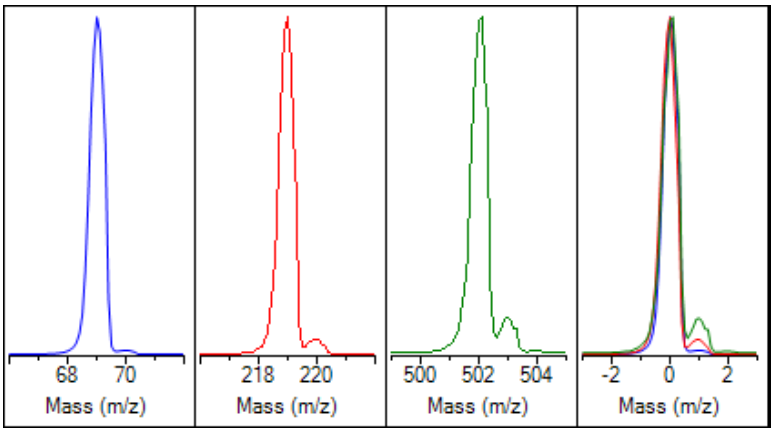
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... 2025 Data\061625\00101005.D
Acquired : 16 Jun 2025 14:50 using AcqMethod DrugTest35MS.M
Instrument : GCMS #4
Sample Name: Blank (C-19-0068) - Instrument ready 000002668
Misc Info : ACN 000002668
Vial Number: 1



High Efficiency Source Autotune - 5977

Tune timestamp: 6/23/2025 7:28 AM (UTC-05:00) GCMS #4

D:\MASSHUNTER\GCMS\1\5977\HES_Atune.u US1837D002



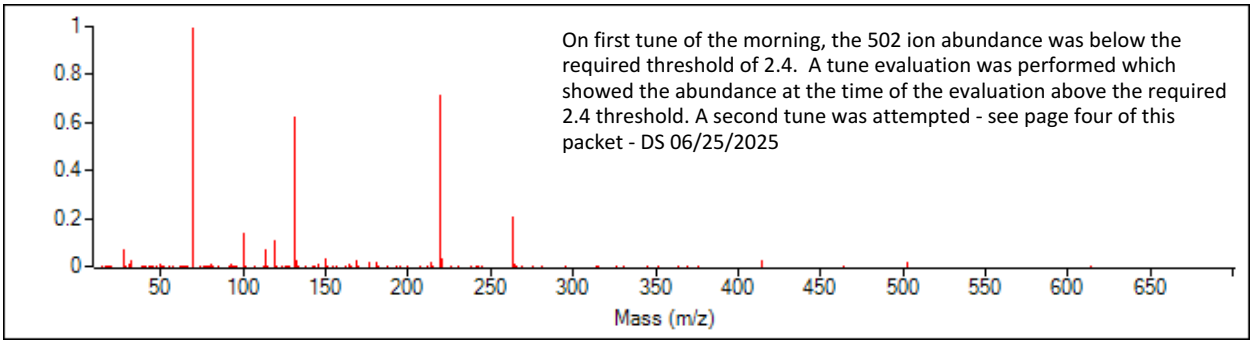
Ion Polarity	Pos	PFTBA	Open
Emission	100.0	Mass Gain	89
Electron Energy	70.0	Mass Offset	-28
Filament	1	Amu Gain	2469
Repeller	14.06	Amu Offset	136.06
Ion Focus	149.6	Width219	0.031
Entrance Lens	22.7	DC Polarity	Pos
Ent Lens Offset	19.31	HED Enable	On
Ion Body	4.50	EM Volts	2136.4
Post Extractor 1	9	Extractor Lens	12.50
Post Extractor 2	32	Scan Speed	3
JetClean Flow Actual/[Setpoint]	0.00 [0.00]	Averages	3

Actual m/z	Abund	Rel Abund	Pw50
69.00	486,779	100.0%	0.61
219.00	346,129	71.1%	0.62
502.10	10,535	2.2%	0.64

Temperatures and Pressures

MS Source	230	Turbo Speed	100.0
MS Quad	150	Hi Vac	7.66e-06

Low	High	Step	Speed	Threshold	Peaks	Base	Abundance	Total Ion
10.00	701.00	0.10	3	100	115	69.00	447,936	1,500,032



On first tune of the morning, the 502 ion abundance was below the required threshold of 2.4. A tune evaluation was performed which showed the abundance at the time of the evaluation above the required 2.4 threshold. A second tune was attempted - see page four of this packet - DS 06/25/2025

Target m/z	Actual m/z	Abund	Rel Abund	Iso m/z	Iso Abund	Iso Ratio
69.00	69.00	447,936	100.0%	70.00	5,298	1.2%
219.00	219.00	318,592	71.1%	220.00	14,309	4.5%
502.00	502.10	9,447	2.1%	503.00	990	10.5%

Air/Water Check: H20 ~0.3% N2 ~6.9% O2 ~2.1% CO2 ~0.2% N2/H20 ~2125.3%

Column(1) Flow: 0.70 Column(2): 0.00 ml/min Interface Temp: 280

Ramp Criteria:

Ion Focus maximum 128 volts using ion 502; Electron Multiplier Gain 12440.349

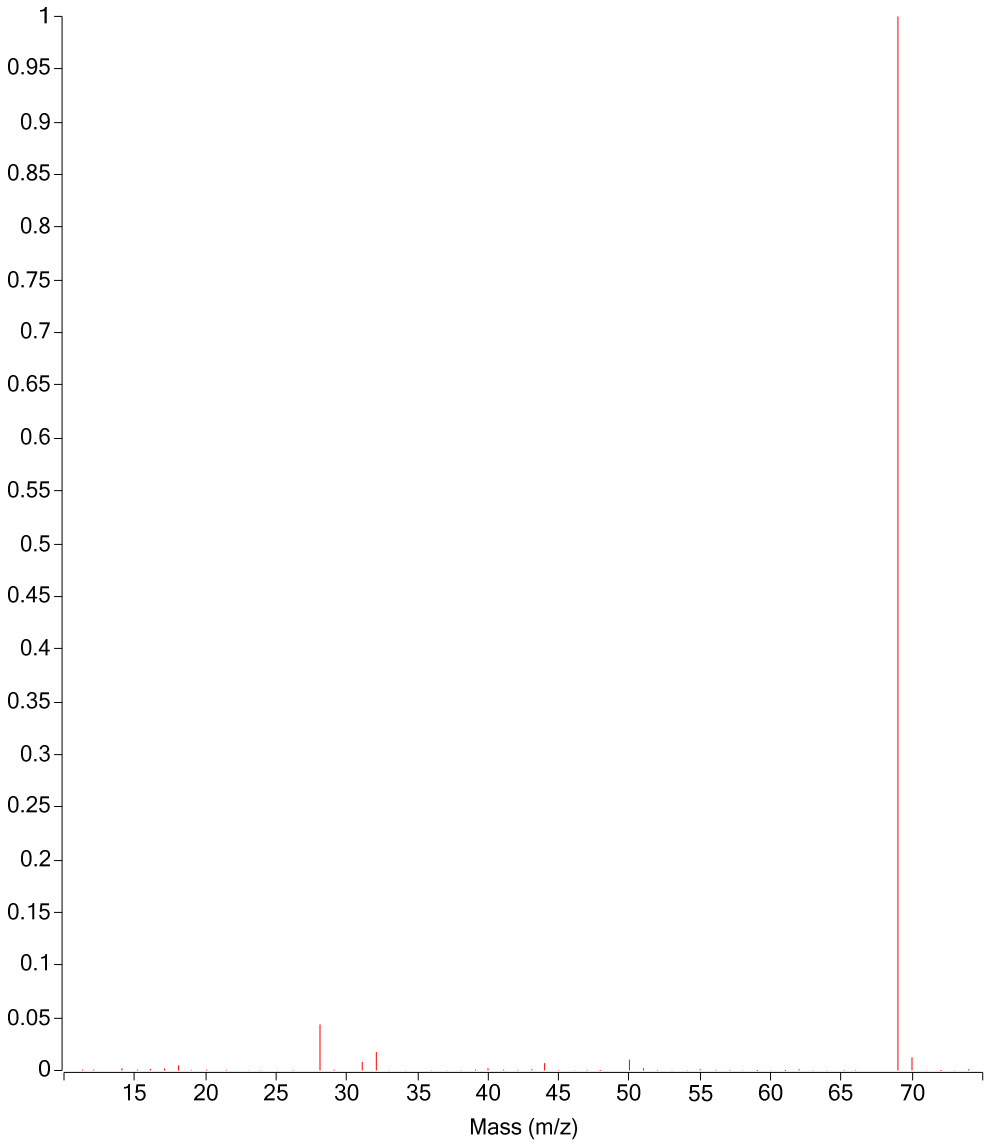
Repeller maximum 35 volts using ion 219; Gain Factor 0.1244

Mass Gain Values(Scan Speed): 91(3) 92(2) 102(1) 104(0) 113(FS1) 200(FS2) 145(FS3)

TARGET MASS:	50	69	131	219	414	502	1050
Amu Offset	136.1	136.1	136.1	136.1	136.1	136.1	136.1
Entrance Lens Offset	19.3	19.3	19.3	19.3	19.3	19.3	19.3

597x Air and Water Check

Instrument: GCMS #4
Mon Jun 23 07:11:25 2025 D:\MassHunter\GCMS\1\5977\



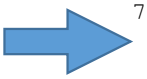
Current Params used: HES_Atune.u

Relative abundances:

18/69 =	0.50	Water%	(counts=3545)
28/69 =	4.36	Nitrogen%	(counts=30920)
32/69 =	1.78	Oxygen%	(counts=12583)
44/69 =	0.70	Carbon Dioxide%	(counts=4929)
28/18 =	872.21	Nitrogen/Water%	

Instrument Name : GCMS #4
DC Polarity : Positive
Filament 1
Current Vacuum status :High Vacuum: 5.68E-06 Torr Turbo:100%

BasePeak should be 69 or 219		OK
Position of mass 69	69.00	OK
Position of mass 219	218.99	OK
Position of mass 502	502.01	OK
Position of isotope mass 70	70.00	OK
Position of isotope mass 220	219.99	OK
Position of isotope mass 503	503.01	OK
Ratio of mass 70 to mass 69(0.5 - 1.6%)	1.20	OK
Ratio of mass 220 to mass 219(3.2 - 5.4%)	4.51	OK
Ratio of mass 503 to mass 502(7.9 - 12.3%)	10.08	OK
Ratio of 219 to 69 should be > 40% and is	72.90	OK
Ratio of 502 to 69 should be > 2.4% and is	2.86	OK
Mass 69 Precursor (<= 3%)	1.00	OK
Mass 219 Precursor (<= 6%)	3.93	OK
Mass 502 Precursor (<= 12%)	4.38	OK



Initial autotune should a 502 ion ratio lower than 2.4 - see page 1 of this packet - a subsequent autotune will be attempted - DS 06/25/025

597x Air and Water Check
Mon Jun 23 07:43:40 2025 Instrument: GCMS #4
D:\MASSHUNTER\GCMS\1\5977\HES_Atune.u US1837D002

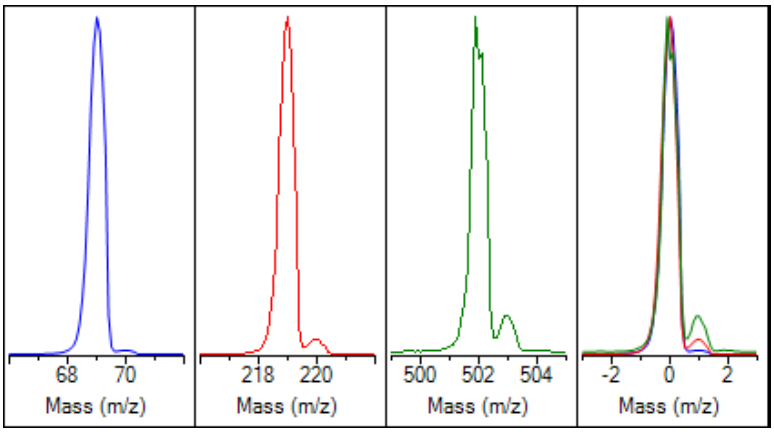
Testing for a leak in the system		
Ratio of 18 to 69 (<20%)	0.32	OK
Ratio of 28 to 69 (<10%)	7.13	OK
Electron Multiplier Voltage	2136	OK

Tune portion of System Verification passed.

High Efficiency Source Autotune - 5977

Tune timestamp: 6/23/2025 8:37 AM (UTC-05:00) GCMS #4

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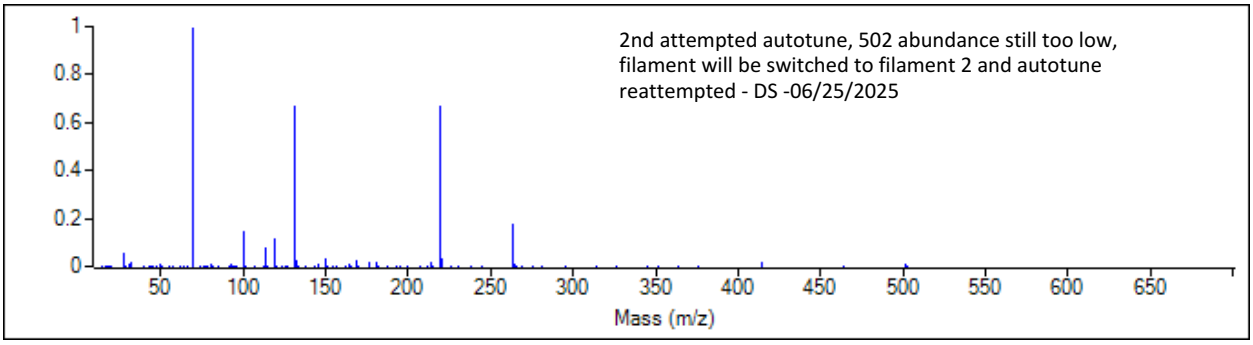
Ion Polarity	Pos	PFTBA	Open
Emission	100.0	Mass Gain	90
Electron Energy	70.0	Mass Offset	-29
Filament	1	Amu Gain	2486
Repeller	13.51	Amu Offset	132.19
Ion Focus	111.1	Width219	0.031
Entrance Lens	20.2	DC Polarity	Pos
Ent Lens Offset	13.23	HED Enable	On
Ion Body	5.25	EM Volts	2193.6
Post Extractor 1	13	Extractor Lens	12.90
Post Extractor 2	27	Scan Speed	3
JetClean Flow Actual/[Setpoint]	0.00 [0.00]	Averages	3

Actual m/z	Abund	Rel Abund	Pw50
69.00	540,060	100.0%	0.62
219.00	382,651	70.9%	0.61
501.90	6,212	1.2%	0.60

Temperatures and Pressures

MS Source	230	Turbo Speed	100.0
MS Quad	150	Hi Vac	8.01e-06

Low	High	Step	Speed	Threshold	Peaks	Base	Abundance	Total Ion
10.00	701.00	0.10	3	100	101	69.00	498,816	1,642,970



Target m/z	Actual m/z	Abund	Rel Abund	Iso m/z	Iso Abund	Iso Ratio
69.00	69.00	498,816	100.0%	70.00	6,047	1.2%
219.00	219.00	335,104	67.2%	220.00	15,379	4.6%
502.00	502.00	5,416	1.1%	503.00	501	9.3%

Air/Water Check: H20 ~0.3% N2 ~5.7% O2 ~1.8% CO2 ~0.2% N2/H20 ~2151.7%

Column(1) Flow: 0.70 Column(2): 0.00 ml/min Interface Temp: 280

Ramp Criteria:

Ion Focus maximum 128 volts using ion 502; Electron Multiplier Gain 14728.137

Repeller maximum 35 volts using ion 219; Gain Factor 0.1473

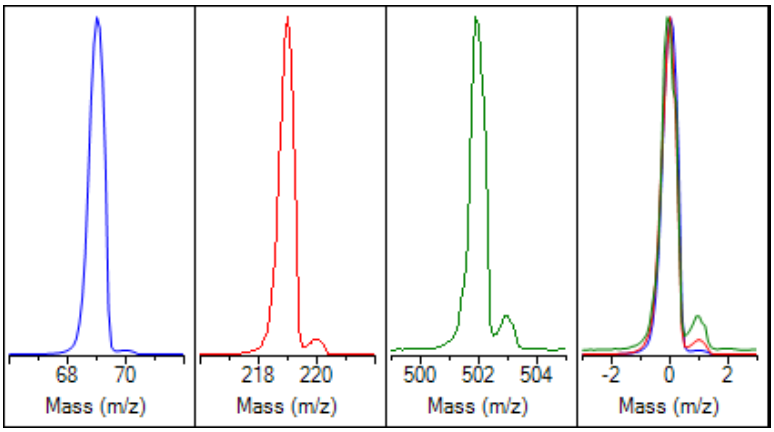
Mass Gain Values(Scan Speed): 92(3) 101(2) 106(1) 116(0) 141(FS1) 211(FS2) 145(FS3)

TARGET MASS:	50	69	131	219	414	502	1050
Amu Offset	132.2	132.2	132.2	132.2	132.2	132.2	132.2
Entrance Lens Offset	13.2	13.2	13.2	13.2	13.2	13.2	13.2

High Efficiency Source Autotune - 5977

Tune timestamp: 6/23/2025 8:50 AM (UTC-05:00) GCMS #4

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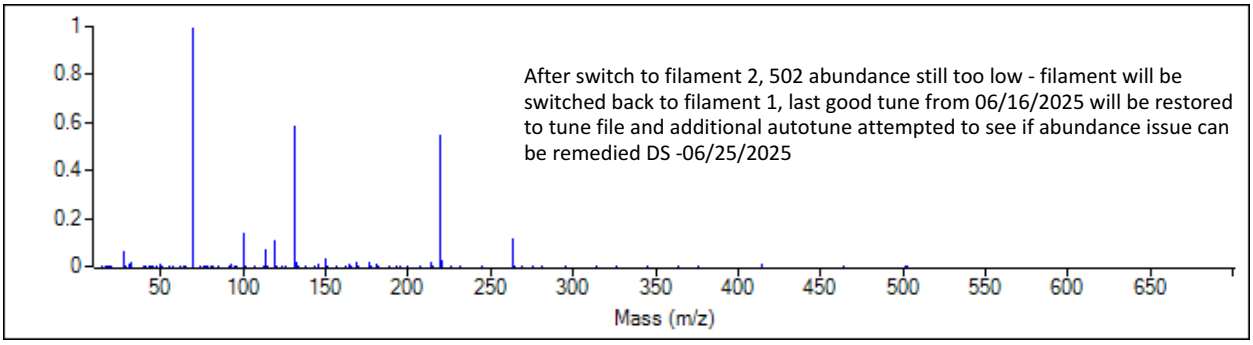
Ion Polarity	Pos	PFTBA	Open
Emission	100.0	Mass Gain	84
Electron Energy	70.0	Mass Offset	-29
Filament	2	Amu Gain	2505
Repeller	12.78	Amu Offset	132.44
Ion Focus	119.9	Width219	0.066
Entrance Lens	7.5	DC Polarity	Pos
Ent Lens Offset	11.98	HED Enable	On
Ion Body	6.25	EM Volts	2203.6
Post Extractor 1	20	Extractor Lens	8.80
Post Extractor 2	20	Scan Speed	3
JetClean Flow Actual/[Setpoint]	0.00 [0.00]	Averages	3

Actual m/z	Abund	Rel Abund	Pw50
69.00	529,892	100.0%	0.62
219.00	327,023	61.7%	0.59
501.90	3,426	0.6%	0.59

Temperatures and Pressures

MS Source	230	Turbo Speed	100.0
MS Quad	150	Hi Vac	8.19e-06

Low	High	Step	Speed	Threshold	Peaks	Base	Abundance	Total Ion
10.00	701.00	0.10	3	100	95	69.00	492,288	1,453,412



Target m/z	Actual m/z	Abund	Rel Abund	Iso m/z	Iso Abund	Iso Ratio
69.00	69.00	492,288	100.0%	70.00	5,735	1.2%
219.00	219.00	268,160	54.5%	220.00	11,903	4.4%
502.00	502.00	2,880	0.6%	503.00	293	10.2%

Air/Water Check: H20 ~0.5% N2 ~6.6% O2 ~1.8% CO2 ~0.2% N2/H20 ~1330.4%

Column(1) Flow: 0.70 Column(2): 0.00 ml/min Interface Temp: 280

Ramp Criteria:

Ion Focus maximum 128 volts using ion 502; Electron Multiplier Gain 14121.376

Repeller maximum 35 volts using ion 219; Gain Factor 0.1412

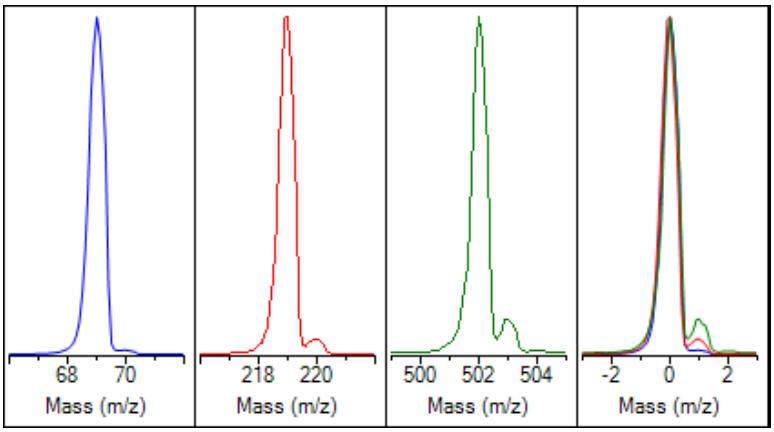
Mass Gain Values(Scan Speed): 90(3) 95(2) 99(1) 118(0) 170(FS1) 170(FS2) 93(FS3)

TARGET MASS:	50	69	131	219	414	502	1050
Amu Offset	132.4	132.4	132.4	132.4	132.4	132.4	132.4
Entrance Lens Offset	12.0	12.0	12.0	12.0	12.0	12.0	12.0

High Efficiency Source Autotune - 5977

Tune timestamp: 6/23/2025 9:04 AM (UTC-05:00) GCMS #4

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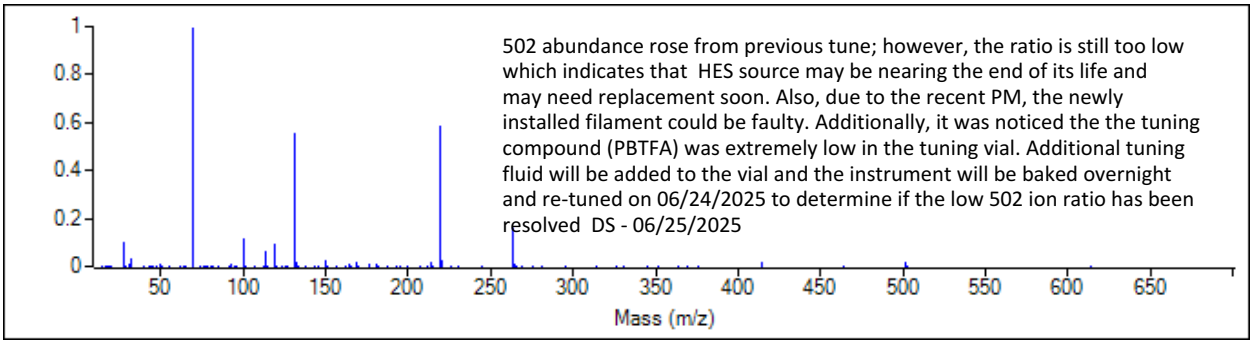
Ion Polarity	Pos	PFTBA	Open
Emission	100.0	Mass Gain	89
Electron Energy	70.0	Mass Offset	-28
Filament	1	Amu Gain	2491
Repeller	18.99	Amu Offset	131.25
Ion Focus	149.6	Width219	0.019
Entrance Lens	42.9	DC Polarity	Pos
Ent Lens Offset	21.10	HED Enable	On
Ion Body	5.00	EM Volts	2239.7
Post Extractor 1	7	Extractor Lens	12.90
Post Extractor 2	31	Scan Speed	3
JetClean Flow Actual/[Setpoint]	0.00 [0.00]	Averages	3

Actual m/z	Abund	Rel Abund	Pw50
69.00	507,203	100.0%	0.63
219.00	302,626	59.7%	0.63
502.00	10,637	2.1%	0.60

Temperatures and Pressures

MS Source	230	Turbo Speed	100.0
MS Quad	150	Hi Vac	8.38e-06

Low	High	Step	Speed	Threshold	Peaks	Base	Abundance	Total Ion
10.00	701.00	0.10	3	100	100	69.00	475,392	1,450,730



502 abundance rose from previous tune; however, the ratio is still too low which indicates that HES source may be nearing the end of its life and may need replacement soon. Also, due to the recent PM, the newly installed filament could be faulty. Additionally, it was noticed the the tuning compound (PBTFA) was extremely low in the tuning vial. Additional tuning fluid will be added to the vial and the instrument will be baked overnight and re-tuned on 06/24/2025 to determine if the low 502 ion ratio has been resolved DS - 06/25/2025

Target m/z	Actual m/z	Abund	Rel Abund	Iso m/z	Iso Abund	Iso Ratio
69.00	69.00	475,392	100.0%	70.00	5,618	1.2%
219.00	219.00	279,424	58.8%	220.00	12,505	4.5%
502.00	502.00	8,806	1.9%	503.00	896	10.2%

Air/Water Check: H20 ~0.5% N2 ~10.3% O2 ~2.8% CO2 ~0.2% N2/H20 ~1883.1%

Column(1) Flow: 0.70 Column(2): 0.00 ml/min Interface Temp: 280

Ramp Criteria:

Ion Focus maximum 128 volts using ion 502; Electron Multiplier Gain 11121.835

Repeller maximum 35 volts using ion 219; Gain Factor 0.1112

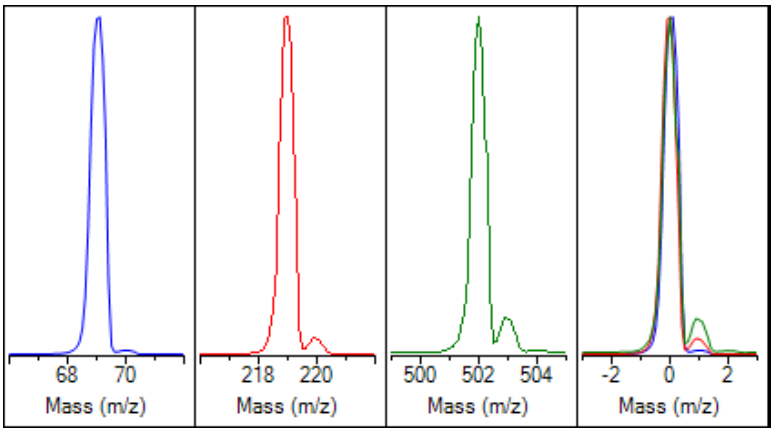
Mass Gain Values(Scan Speed): 88(3) 94(2) 95(1) 107(0) 159(FS1) 159(FS2) 159(FS3)

TARGET MASS:	50	69	131	219	414	502	1050
Amu Offset	131.3	131.3	131.3	131.3	131.3	131.3	131.3
Entrance Lens Offset	21.1	21.1	21.1	21.1	21.1	21.1	21.1

High Efficiency Source Autotune - 5977

Tune timestamp: 6/24/2025 8:38 AM (UTC-05:00) GCMS #4

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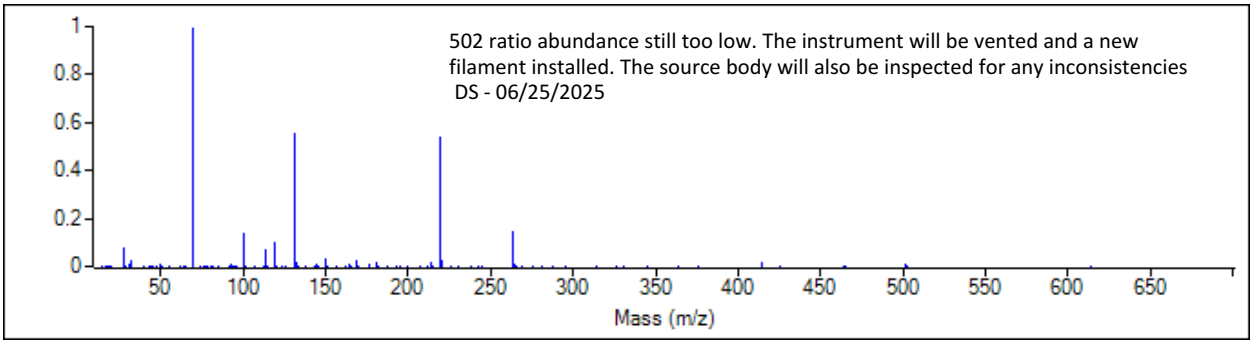
Ion Polarity	Pos	PFTBA	Open
Emission	100.0	Mass Gain	85
Electron Energy	70.0	Mass Offset	-26
Filament	1	Amu Gain	2473
Repeller	10.59	Amu Offset	133.75
Ion Focus	143.6	Width219	0.000
Entrance Lens	32.8	DC Polarity	Pos
Ent Lens Offset	18.65	HED Enable	On
Ion Body	3.50	EM Volts	2188.1
Post Extractor 1	10	Extractor Lens	9.60
Post Extractor 2	27	Scan Speed	3
JetClean Flow Actual/[Setpoint]	0.00 [0.00]	Averages	3

Actual m/z	Abund	Rel Abund	Pw50
69.10	499,938	100.0%	0.59
219.00	286,296	57.3%	0.58
502.00	7,742	1.5%	0.60

Temperatures and Pressures

MS Source	230	Turbo Speed	100.0
MS Quad	150	Hi Vac	8.52e-06

Low	High	Step	Speed	Threshold	Peaks	Base	Abundance	Total Ion
10.00	701.00	0.10	3	100	102	69.00	478,976	1,436,523



Target m/z	Actual m/z	Abund	Rel Abund	Iso m/z	Iso Abund	Iso Ratio
69.00	69.00	478,976	100.0%	70.00	5,586	1.2%
219.00	219.00	257,216	53.7%	220.00	11,672	4.5%
502.00	502.00	6,934	1.4%	503.00	716	10.3%

Air/Water Check: H20 ~0.4% N2 ~8.0% O2 ~2.4% CO2 ~0.2% N2/H20 ~2158.6%

Column(1) Flow: 0.70 Column(2): 0.00 ml/min Interface Temp: 280

Ramp Criteria:

Ion Focus maximum 128 volts using ion 502; Electron Multiplier Gain 9347.945

Repeller maximum 35 volts using ion 219; Gain Factor 0.0935

Mass Gain Values(Scan Speed): 93(3) 96(2) 99(1) 113(0) 112(FS1) 182(FS2) 117(FS3)

TARGET MASS:	50	69	131	219	414	502	1050
Amu Offset	133.8	133.8	133.8	133.8	133.8	133.8	133.8
Entrance Lens Offset	18.6	18.6	18.6	18.6	18.6	18.6	18.6

Maintenance Notes

Instrument: SD GCMS 4

Analyst: DS

Date: June 27, 2025

Notes:

On June 23, 2025, SD GCMS 4 weekly autotune was attempted. The autotune passed all required parameters but on the tune evaluation, the 502 ion ratio was observed to be below the threshold of 2.4. Several re-tunes were attempted to no avail (the 502 ion ratio remained low – refer to tune packet dated 2025-0623). After repeated attempts to rectify the situation, analyst Derek Sanders noticed that the tuning fluid was low. The instrument was vented and tuning fluid added to the reservoir. This didn't resolve the problem. As the instrument had just undergone its annual PM, it was decided to vent the instrument once more and replace the filaments. The rationale behind this being that filaments are sometimes faulty and this could be the reason behind the low 502 ion ratio. On 06/24/2025, the instrument was vented and filament replaced. After instrument pump down, the instrument would not complete the autotune sequence and gave the error message "tune action stopped – the valid range for the ent lens offset is 0.00 to 66.50". A service call to Agilent was initiated generating the ticket number of 8106266455. On 06/26/2025, Agilent technician Robert Garcia vented the instrument and noticed that several of the wires were not connected to the filament and source body. The likely cause being the previous filament replacement by analyst Derek Sanders. The wires were reconnected and the instrument pumped down. The initial autotune after this service resulted in the autotune running to completion. The instrument was allowed to pump down further overnight and on 06/26/2025, the instrument passed all autotune parameters. The weekly check mix was performed to demonstrate the instrument could accurately assign mass ions and separate the components of a mixture. The reason as to why the 502 ion ratio was low could be a combination of low tuning fluid and faulty filament; however, neither of these reasons could be the cause. The instrument will be closely monitored over the next several weeks to determine if the problem resurfaces. As of the successful completion of the weekly check mix, SD GCMS 4 will be returned to service on 06/27/2025.

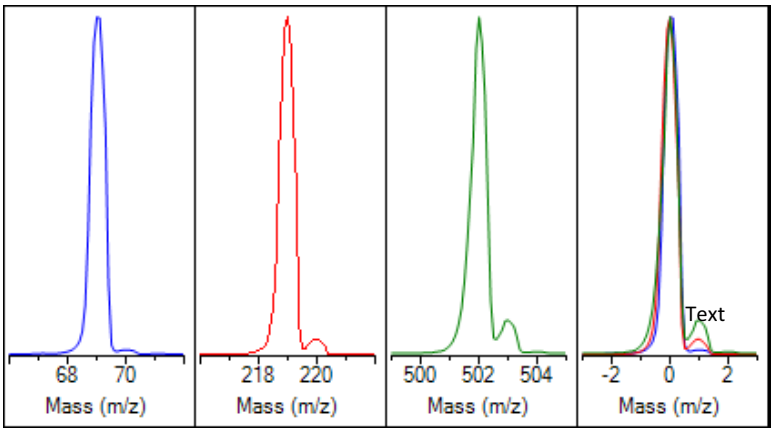
Derek Sanders

Approval Date: February 3, 2025
Effective Date: February 4, 2025
Approved By: Upper Management

High Efficiency Source Autotune - 5977

Tune timestamp: 6/26/2025 2:23 PM (UTC-05:00) GCMS #4

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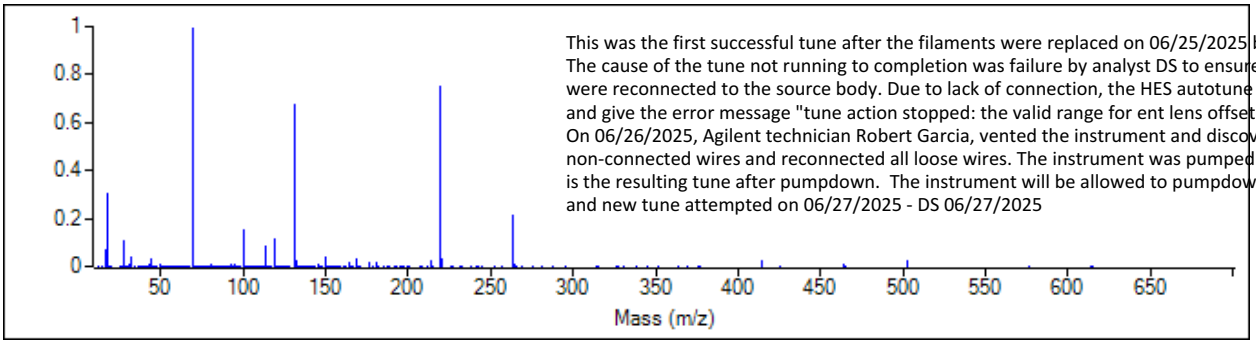
Ion Polarity	Pos	PFTBA	Open
Emission	100.0	Mass Gain	96
Electron Energy	70.0	Mass Offset	-26
Filament	1	Amu Gain	2450
Repeller	12.60	Amu Offset	137.81
Ion Focus	133.8	Width219	0.000
Entrance Lens	7.5	DC Polarity	Pos
Ent Lens Offset	15.10	HED Enable	On
Ion Body	5.75	EM Volts	2039.0
Post Extractor 1	15	Extractor Lens	12.70
Post Extractor 2	26	Scan Speed	3
JetClean Flow Actual/[Setpoint]	0.00 [0.00]	Averages	3

Actual m/z	Abund	Rel Abund	Pw50
69.00	557,842	100.0%	0.60
219.00	416,591	74.7%	0.62
502.00	15,757	2.8%	0.58

Temperatures and Pressures

MS Source	230	Turbo Speed	100.0
MS Quad	150	Hi Vac	1.05e-05

Low	High	Step	Speed	Threshold	Peaks	Base	Abundance	Total Ion
10.00	701.00	0.10	3	100	202	69.00	533,504	2,189,149



This was the first successful tune after the filaments were replaced on 06/25/2025 by analyst DS. The cause of the tune not running to completion was failure by analyst DS to ensure that all wires were reconnected to the source body. Due to lack of connection, the HES autotune would terminate and give the error message "tune action stopped: the valid range for ent lens offset is 0.00 to 66.50". On 06/26/2025, Agilent technician Robert Garcia, vented the instrument and discovered the non-connected wires and reconnected all loose wires. The instrument was pumped down and this is the resulting tune after pumpdown. The instrument will be allowed to pumpdown further overnight and new tune attempted on 06/27/2025 - DS 06/27/2025

Target m/z	Actual m/z	Abund	Rel Abund	Iso m/z	Iso Abund	Iso Ratio
69.00	69.00	533,504	100.0%	70.00	7,107	1.3%
219.00	219.00	400,832	75.1%	220.00	17,880	4.5%
502.00	502.10	12,897	2.4%	503.00	1,257	9.7%

Air/Water Check: H20 ~30.3% N2 ~11.1% O2 ~3.6% CO2 ~2.8% N2/H20 ~36.7%

Column(1) Flow: 0.70 Column(2): 0.00 ml/min Interface Temp: 280

Ramp Criteria:

Ion Focus maximum 128 volts using ion 502; Electron Multiplier Gain 15960.130

Repeller maximum 35 volts using ion 219; Gain Factor 0.1596

Mass Gain Values(Scan Speed): 103(3) 105(2) 110(1) 135(0) 187(FS1) 186(FS2) 197(FS3)

TARGET MASS:	50	69	131	219	414	502	1050
Amu Offset	137.8	137.8	137.8	137.8	137.8	137.8	137.8
Entrance Lens Offset	15.1	15.1	15.1	15.1	15.1	15.1	15.1

Instrument Name : GCMS #4
DC Polarity : Positive
Filament 1
Current Vacuum status :High Vacuum: 9.17E-06 Torr Turbo:100%

BasePeak should be 69 or 219		OK
Position of mass 69	69.00	OK
Position of mass 219	219.00	OK
Position of mass 502	502.03	OK
Position of isotope mass 70	70.00	OK
Position of isotope mass 220	220.00	OK
Position of isotope mass 503	503.00	OK
Ratio of mass 70 to mass 69(0.5 - 1.6%)	1.34	OK
Ratio of mass 220 to mass 219(3.2 - 5.4%)	4.48	OK
Ratio of mass 503 to mass 502(7.9 - 12.3%)	10.19	OK
Ratio of 219 to 69 should be > 40% and is	73.83	OK
Ratio of 502 to 69 should be > 2.4% and is	3.03	OK
Mass 69 Precursor (<= 3%)	0.81	OK
Mass 219 Precursor (<= 6%)	2.38	OK
Mass 502 Precursor (<= 12%)	5.59	OK

Tune evaluation after initial pumpdown
DS 06/27/2025

597x Air and Water Check
Thu Jun 26 14:26:52 2025 Instrument: GCMS #4
D:\MASSHUNTER\GCMS\1\5977\HES_Atune.u US1837D002

Testing for a leak in the system

Ratio of 18 to 69 (<20%)	22.22	High
Ratio of 28 to 69 (<10%)	8.10	OK

There is a high amount of water in your system.
Macro will wait 10 minutes for the system to bake out and rerun system verification.

Electron Multiplier Voltage	2039	OK

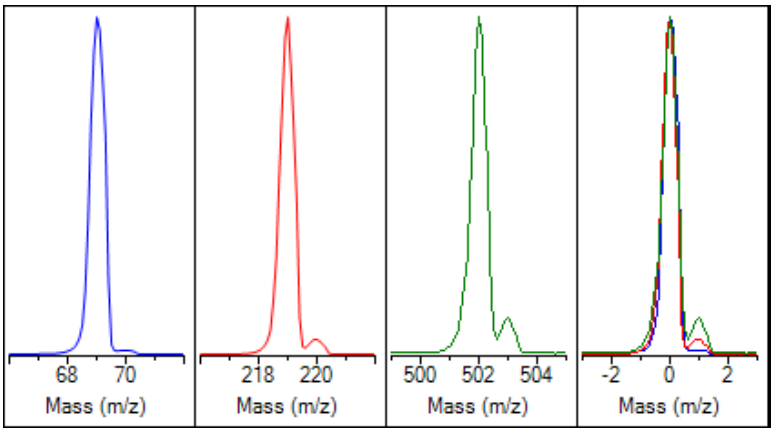
One or more specifications was out of range.
Please correct before continuing.

Failure of one or more tests may be caused by
selecting the wrong DC Polarity.
Please verify that the correct DC Polarity has been set
by removing the detector cover and checking the label
at the top of the EID.

High Efficiency Source Autotune - 5977

Tune timestamp: 6/27/2025 8:21 AM (UTC-05:00) GCMS #4

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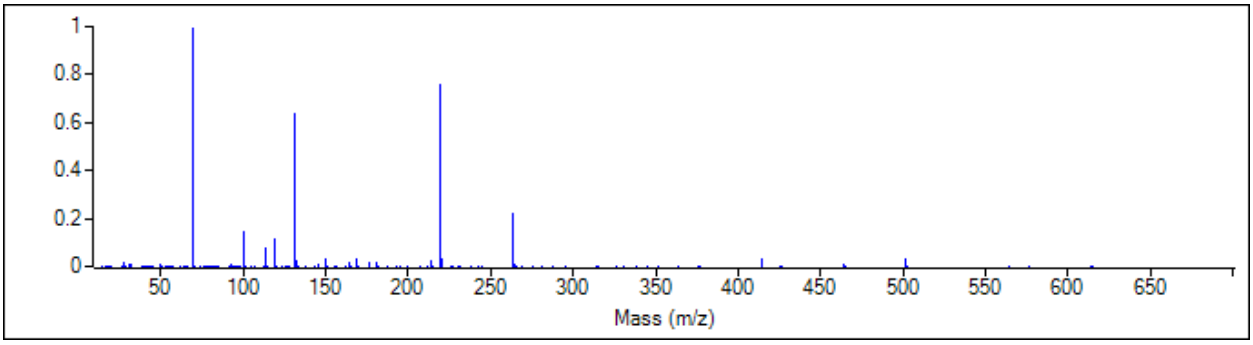
Ion Polarity	Pos	PFTBA	Open
Emission	100.0	Mass Gain	89
Electron Energy	70.0	Mass Offset	-27
Filament	1	Amu Gain	2469
Repeller	13.69	Amu Offset	135.50
Ion Focus	139.7	Width219	0.000
Entrance Lens	2.5	DC Polarity	Pos
Ent Lens Offset	16.47	HED Enable	On
Ion Body	6.00	EM Volts	1968.1
Post Extractor 1	12	Extractor Lens	11.50
Post Extractor 2	33	Scan Speed	3
JetClean Flow Actual/[Setpoint]	0.00 [0.00]	Averages	3

Actual m/z	Abund	Rel Abund	Pw50
69.00	500,652	100.0%	0.60
219.00	403,868	80.7%	0.59
502.00	16,680	3.3%	0.61

Temperatures and Pressures

MS Source	230	Turbo Speed	100.0
MS Quad	150	Hi Vac	7.79e-06

Low	High	Step	Speed	Threshold	Peaks	Base	Abundance	Total Ion
10.00	701.00	0.10	3	100	131	69.00	469,184	1,621,034



Target m/z	Actual m/z	Abund	Rel Abund	Iso m/z	Iso Abund	Iso Ratio
69.00	69.00	469,184	100.0%	70.00	5,869	1.3%
219.00	219.00	356,352	76.0%	220.00	16,383	4.6%
502.00	502.00	15,102	3.2%	503.00	1,505	10.0%

Air/Water Check: H20 ~0.5% N2 ~1.9% O2 ~0.6% CO2 ~0.3% N2/H20 ~381.7%

Column(1) Flow: 0.70 Column(2): 0.00 ml/min Interface Temp: 280

Ramp Criteria:

Ion Focus maximum 128 volts using ion 502; Electron Multiplier Gain 15365.553

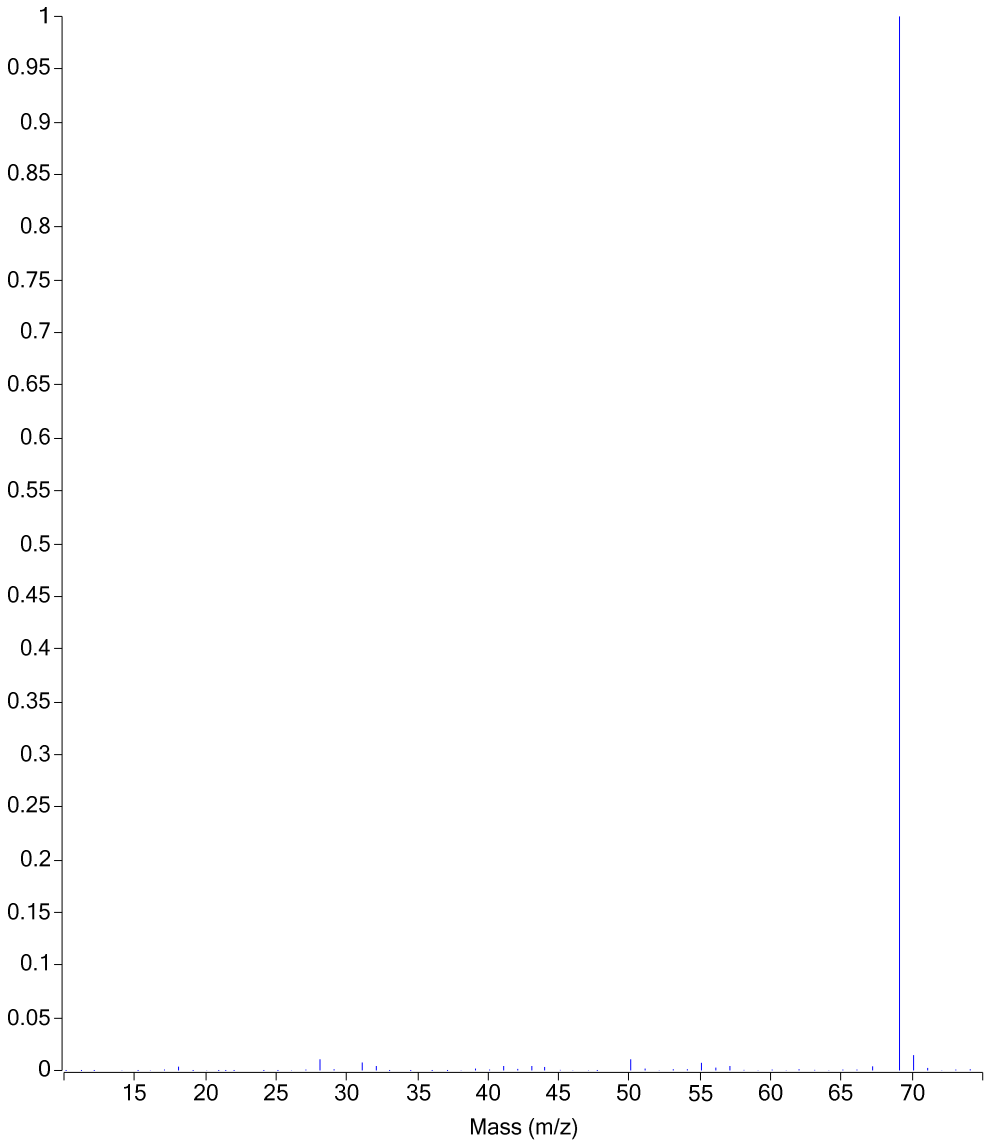
Repeller maximum 35 volts using ion 219; Gain Factor 0.1537

Mass Gain Values(Scan Speed): 91(3) 96(2) 97(1) 112(0) 164(FS1) 164(FS2) 142(FS3)

TARGET MASS:	50	69	131	219	414	502	1050
Amu Offset	135.5	135.5	135.5	135.5	135.5	135.5	135.5
Entrance Lens Offset	16.5	16.5	16.5	16.5	16.5	16.5	16.5

597x Air and Water Check

Instrument: GCMS #4
Fri Jun 27 08:05:09 2025 D:\MassHunter\GCMS\1\5977\



Current Params used: HES_Atune.u

Relative abundances:

18/69 =	0.36	Water%	(counts=3592)
28/69 =	1.07	Nitrogen%	(counts=10688)
32/69 =	0.44	Oxygen%	(counts=4368)
44/69 =	0.33	Carbon Dioxide%	(counts=3325)
28/18 =	297.55	Nitrogen/Water%	

Instrument Name : GCMS #4
DC Polarity : Positive
Filament 1
Current Vacuum status :High Vacuum: 5.91E-06 Torr Turbo:100%

BasePeak should be 69 or 219		OK
Position of mass 69	69.00	OK
Position of mass 219	219.00	OK
Position of mass 502	502.01	OK
Position of isotope mass 70	70.00	OK
Position of isotope mass 220	220.00	OK
Position of isotope mass 503	503.01	OK
Ratio of mass 70 to mass 69(0.5 - 1.6%)	1.24	OK
Ratio of mass 220 to mass 219(3.2 - 5.4%)	4.53	OK
Ratio of mass 503 to mass 502(7.9 - 12.3%)	10.26	OK
Ratio of 219 to 69 should be > 40% and is	68.29	OK
Ratio of 502 to 69 should be > 2.4% and is	2.59	OK
Mass 69 Precursor (<= 3%)	0.91	OK
Mass 219 Precursor (<= 6%)	2.82	OK
Mass 502 Precursor (<= 12%)	6.16	OK

597x Air and Water Check
Fri Jun 27 08:36:06 2025 Instrument: GCMS #4
D:\MASSHUNTER\GCMS\1\5977\HES_Atune.u US1837D002

Testing for a leak in the system		
Ratio of 18 to 69 (<20%)	0.47	OK
Ratio of 28 to 69 (<10%)	1.85	OK
Electron Multiplier Voltage	1968	OK

Tune portion of System Verification passed.

Tune passed all parameters. The weekly check mix will be run as the final step in the process to determine if the instrument can be returned to service. The reason as to why the 502 ratio was too low in the first place could have been the combination of tuning fluid being low and a bad filament. However, either of these reasons may not be the primary cause. In any event, the instrument will be monitored over the next several weeks to see if this problem resurfaces. DS 06/27/2025

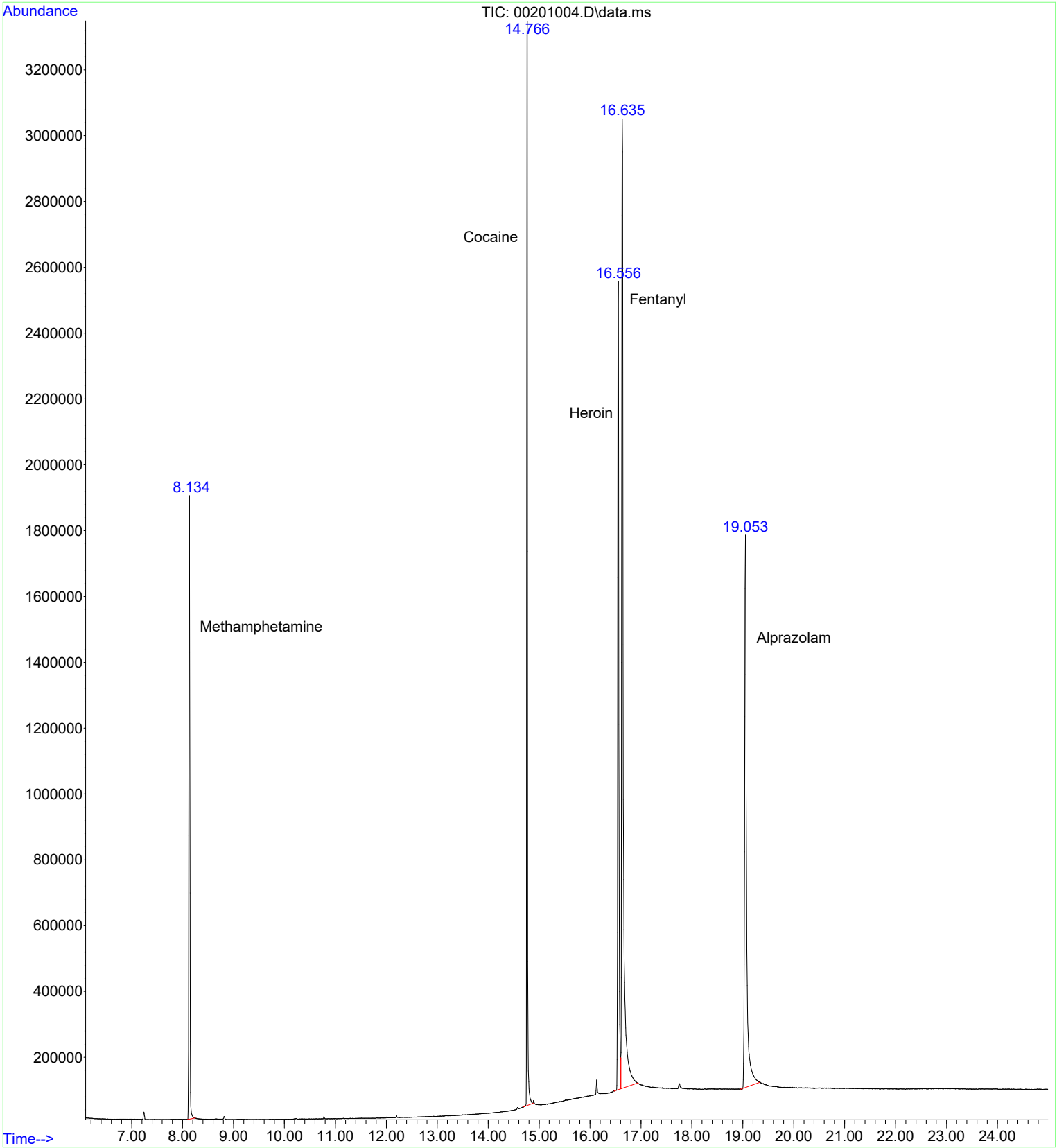
BCCL GC/MS #4
Retention Times for the Week of:

06/23/2025 - 06/29/2025

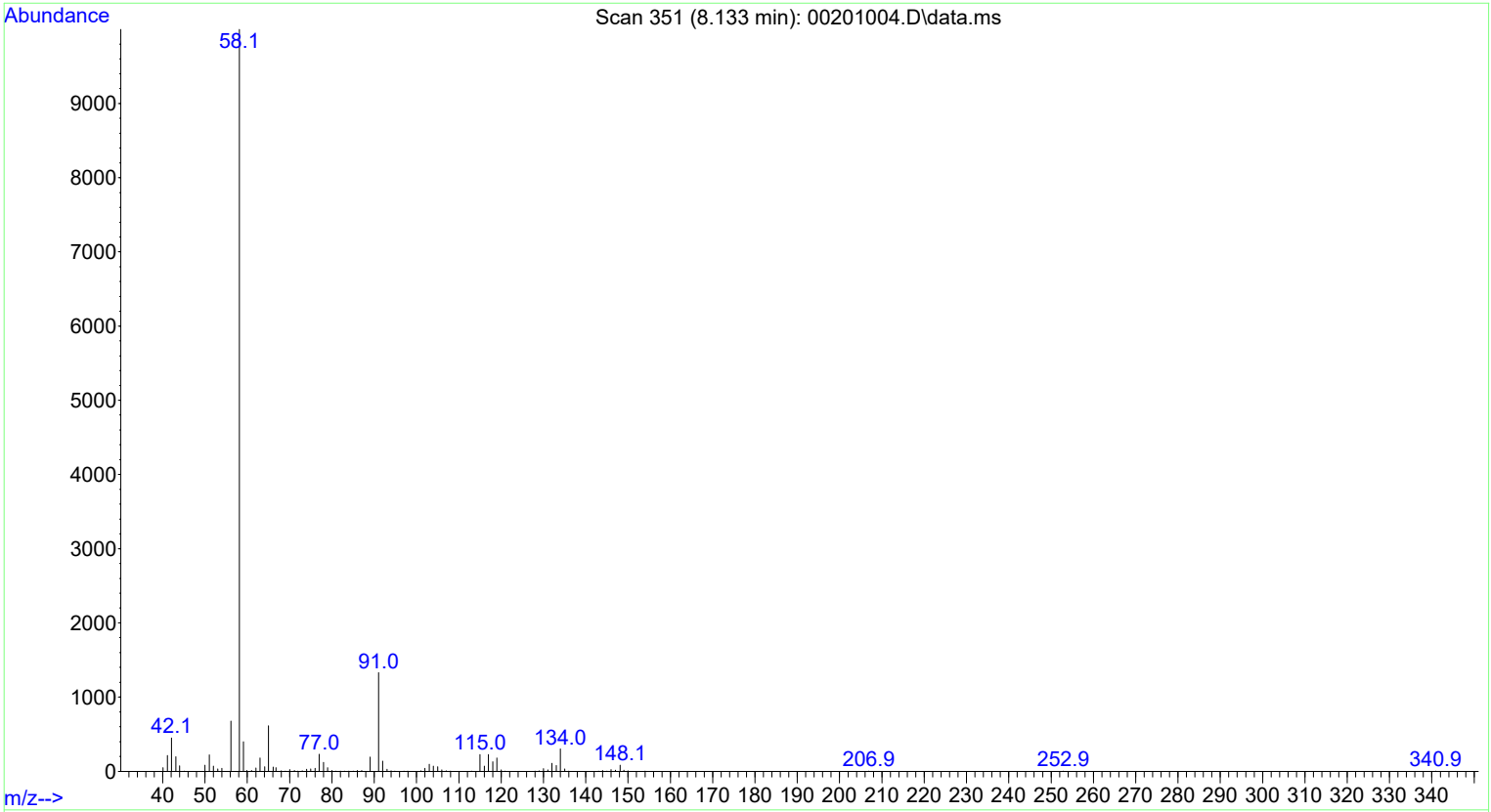
[X] **Tune: DS 06/27/2025 - HES Autotune**

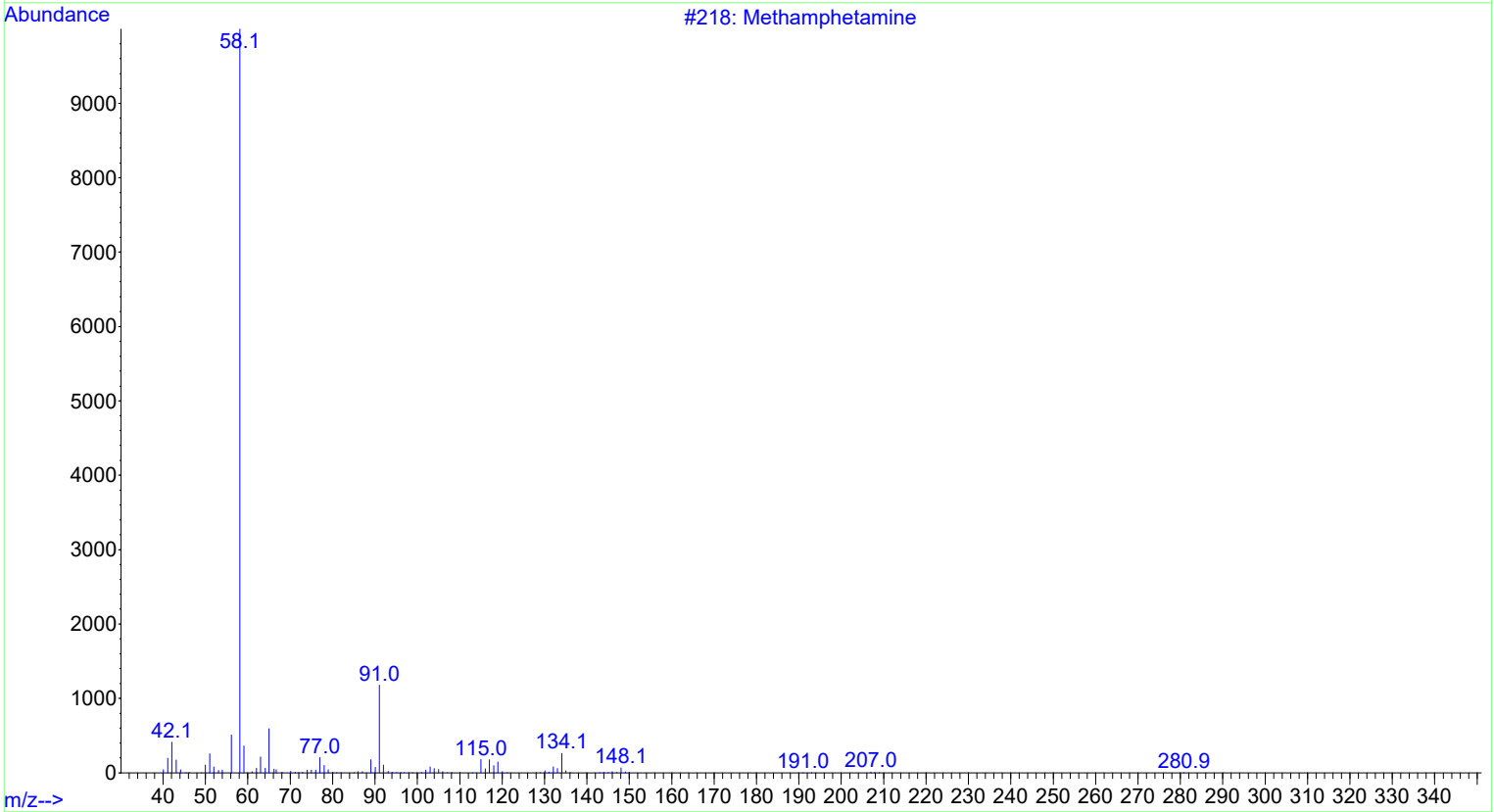
Standard	Standard #	Method	Retention Time	1% Window	
Methamphetamine	R-24-060	DrugTest35MS	8.134	8.052	8.215
Cocaine	R-24-060	DrugTest35MS	14.766	14.618	14.913
Heroin	R-24-060	DrugTest35MS	16.556	16.390	16.721
Fentanyl	R-24-060	DrugTest35MS	16.635	16.468	16.801
Alprazolam	R-24-060	DrugTest35MS	19.053	18.862	19.243

File :D:\MassHunter\GCMS\1\GCMS 4 data\Standards\Weekly Check Mix\
... 2025 Data\062725\00201004.D
Acquired : 27 Jun 2025 10:30 using AcqMethod DrugTest35MS.M
Instrument : GCMS #4
Sample Name: Cayman GC/MS mix 3 (R-24-060) 000002669
Misc Info : in ACN 000002669
Vial Number: 2

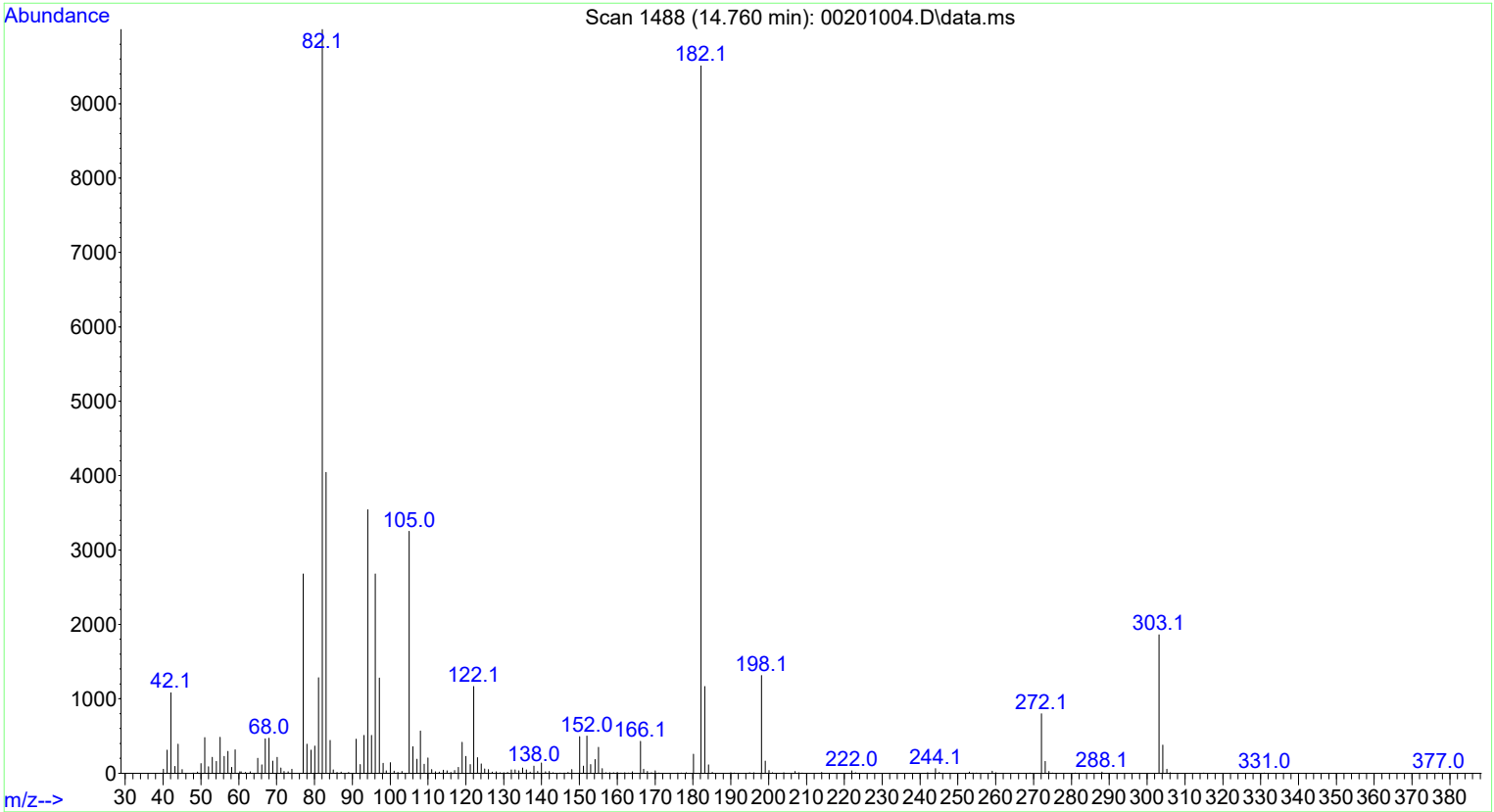


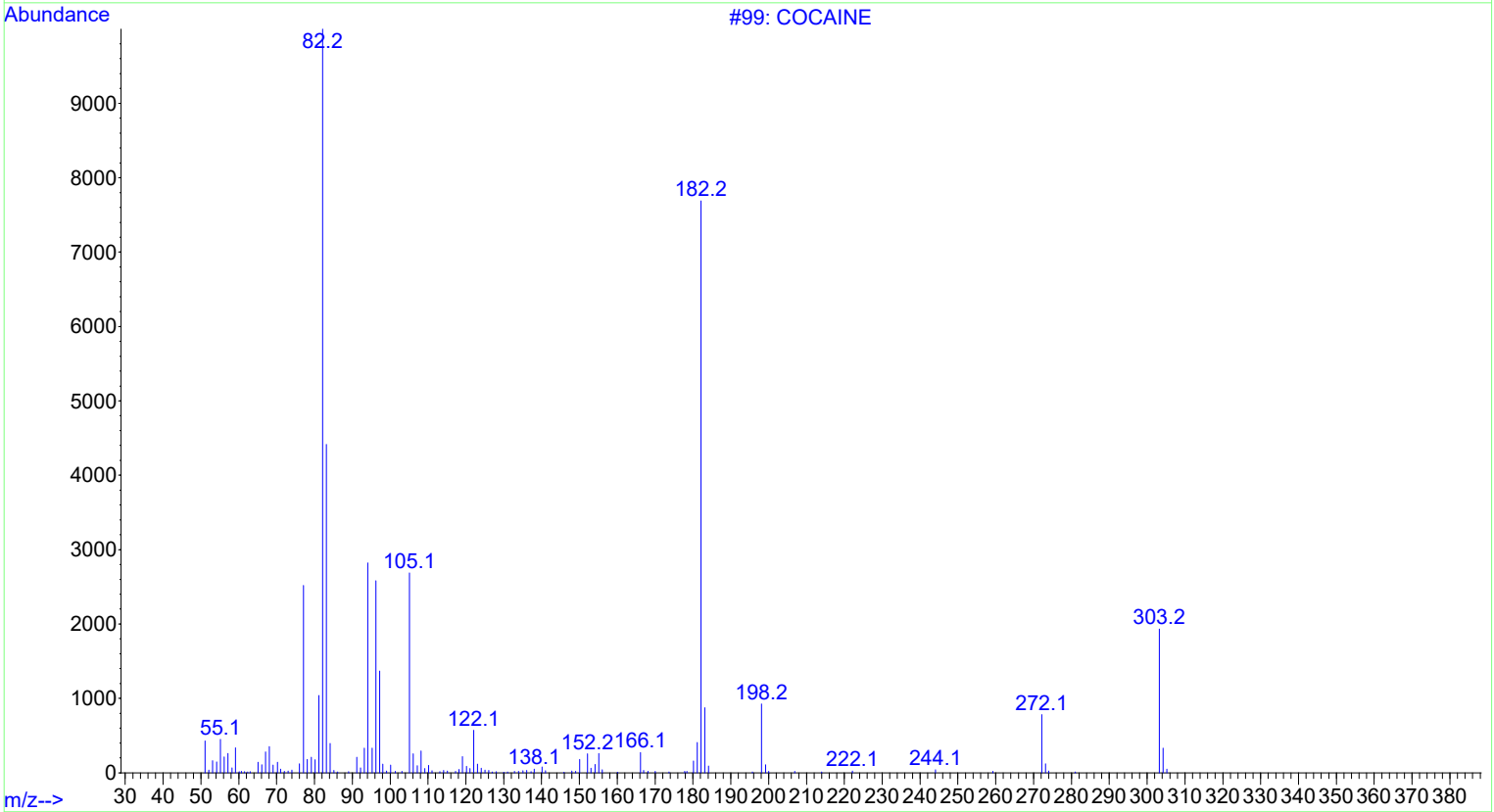
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... 2025 Data\062725\00201004.D
Acquired : 27 Jun 2025 10:30 using AcqMethod DrugTest35MS.M
Instrument : GCMS #4
Sample Name: Cayman GC/MS mix 3 (R-24-060) 000002669
Misc Info : in ACN 000002669
Vial Number: 2



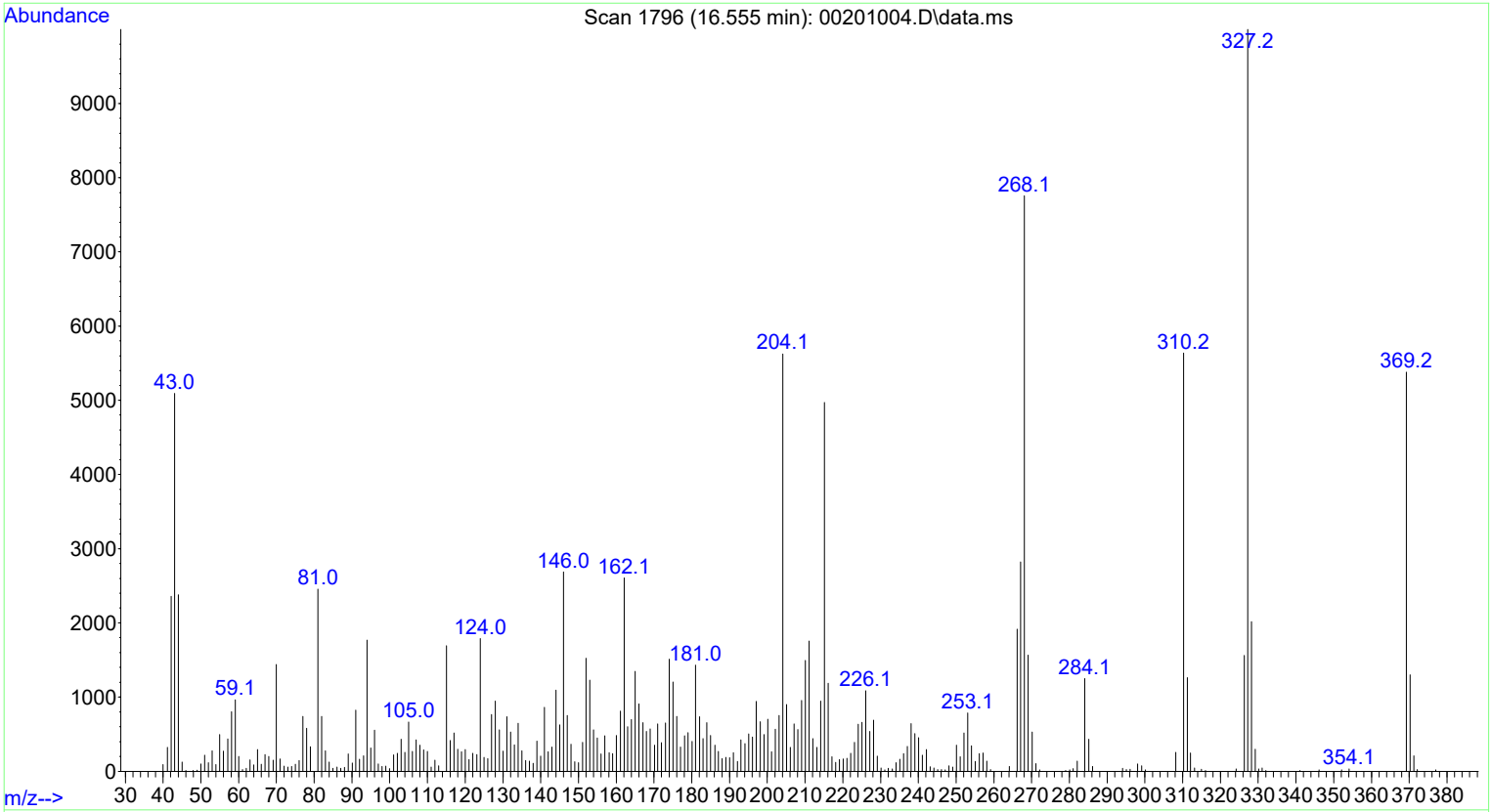


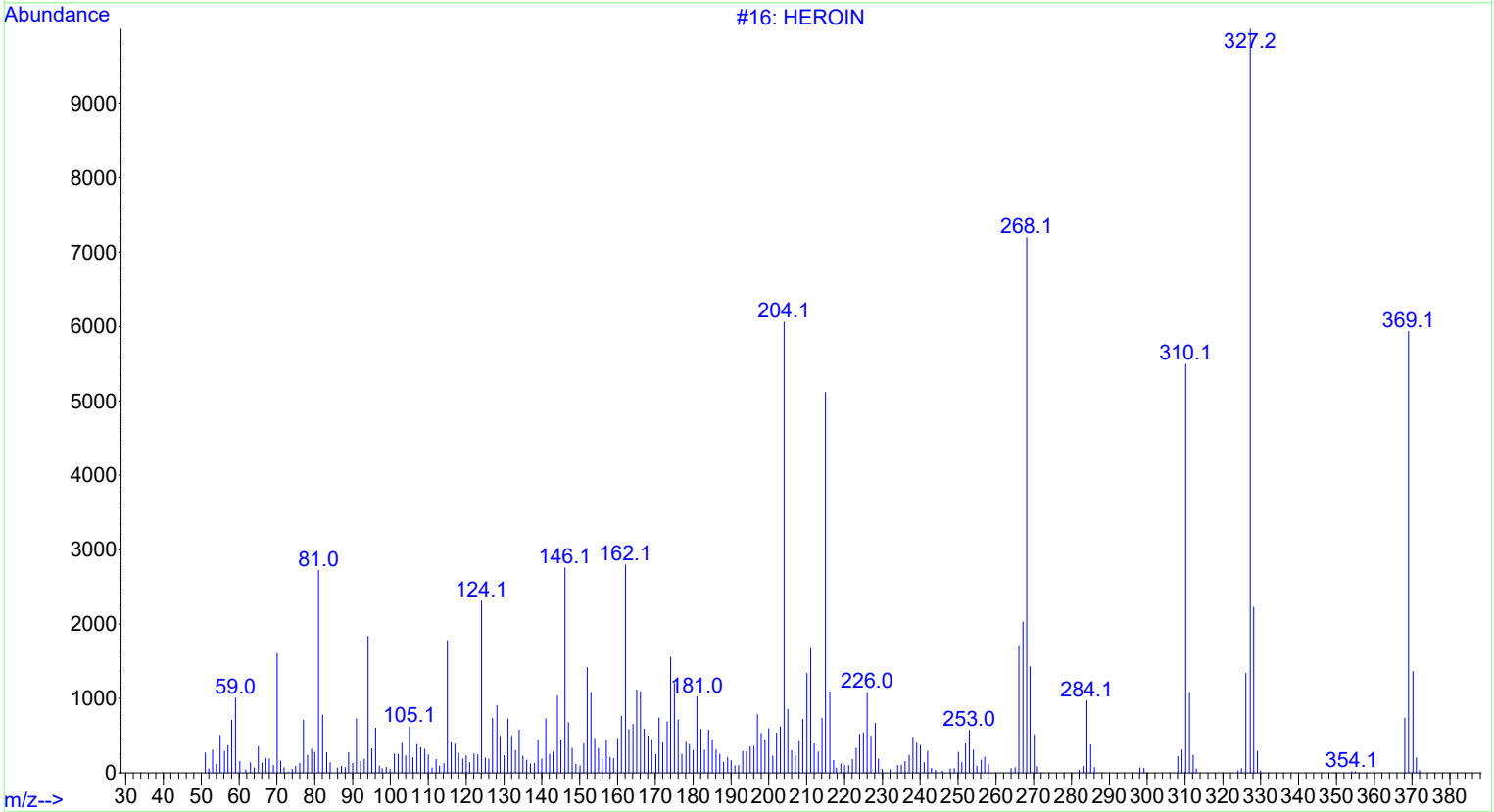
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File       :D:\MassHunter\GCMS\1\GCMS 4 data\Standards\Weekly Check Mix\
...         2025 Data\062725\00201004.D
Acquired   : 27 Jun 2025  10:30     using AcqMethod DrugTest35MS.M
Instrument :   GCMS #4
Sample Name: Cayman GC/MS mix 3 (R-24-060)                  000002669
Misc Info  : in ACN                                         000002669
Vial Number: 2
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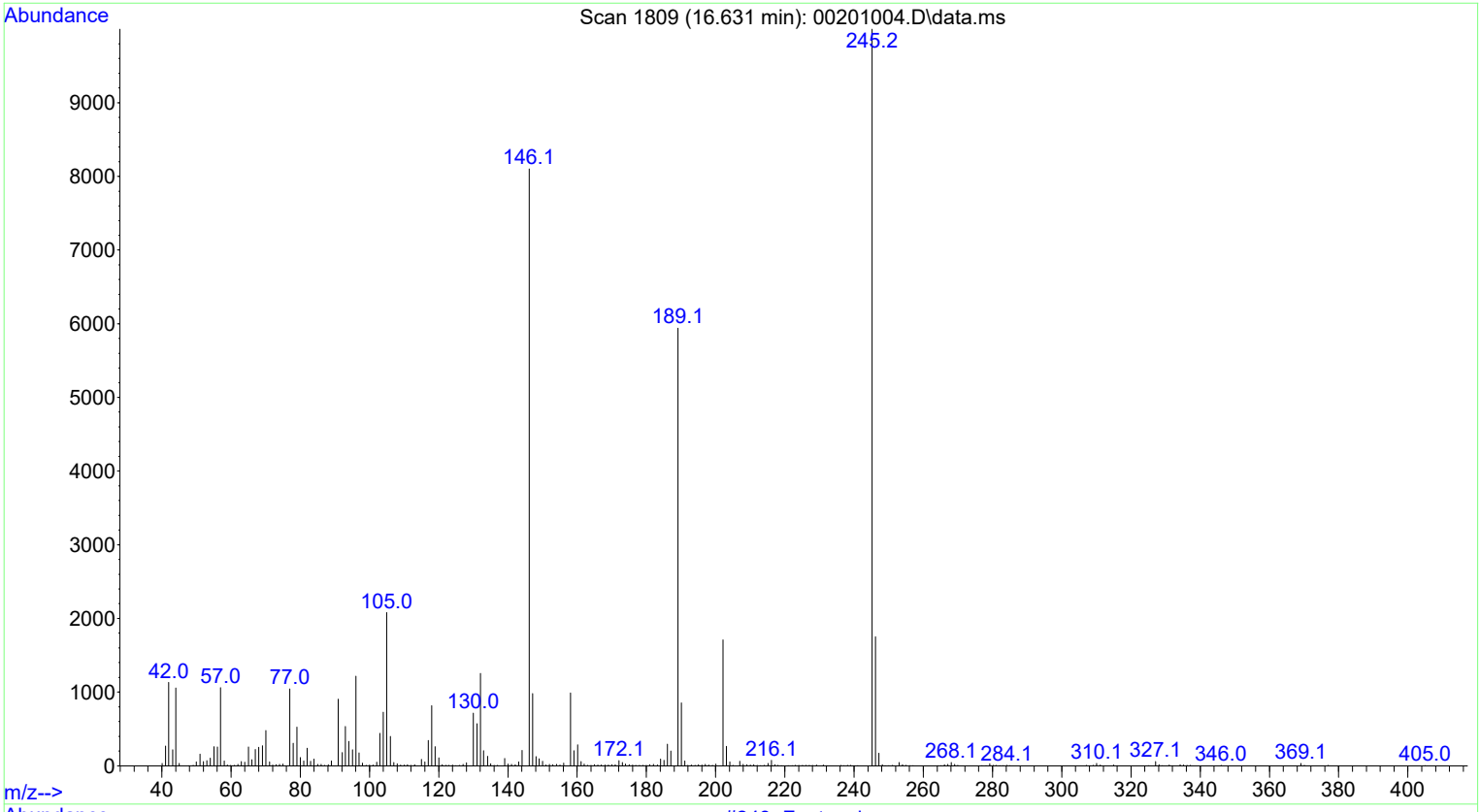


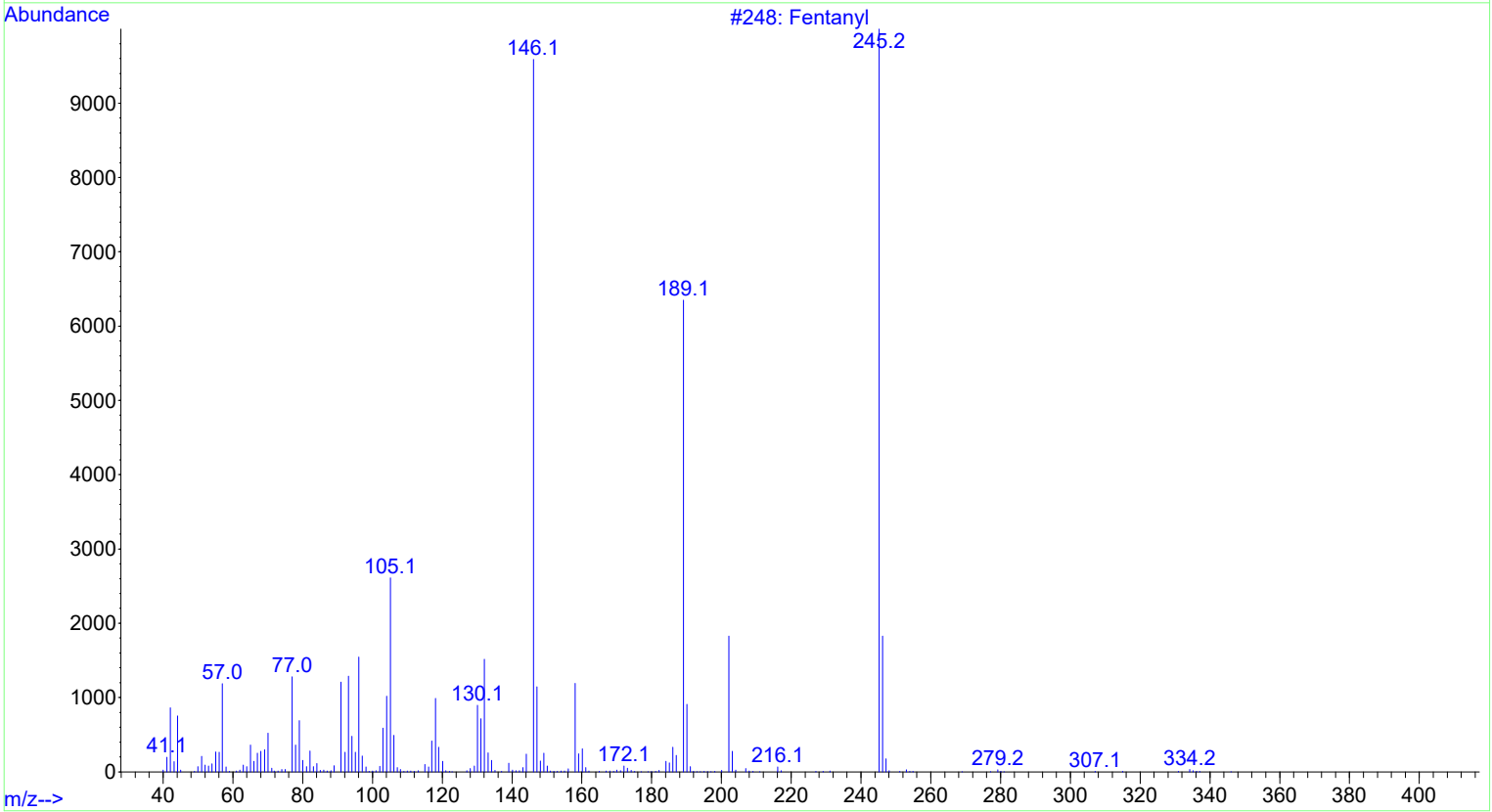
File :D:\MassHunter\GCMS\1\GCMS 4 data\Standards\Weekly Check Mix\
... 2025 Data\062725\00201004.D
Acquired : 27 Jun 2025 10:30 using AcqMethod DrugTest35MS.M
Instrument : GCMS #4
Sample Name: Cayman GC/MS mix 3 (R-24-060) 000002669
Misc Info : in ACN 000002669
Vial Number: 2



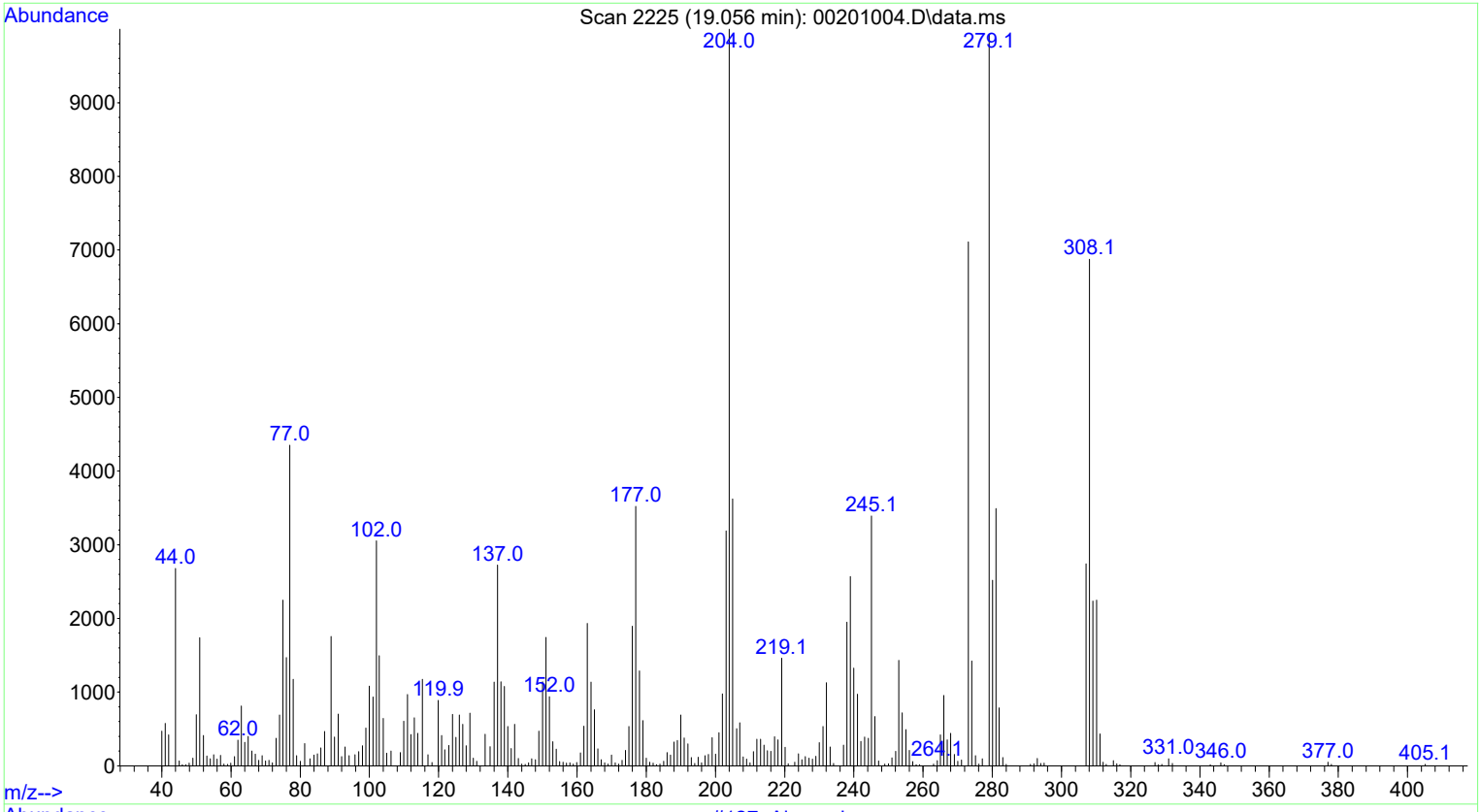


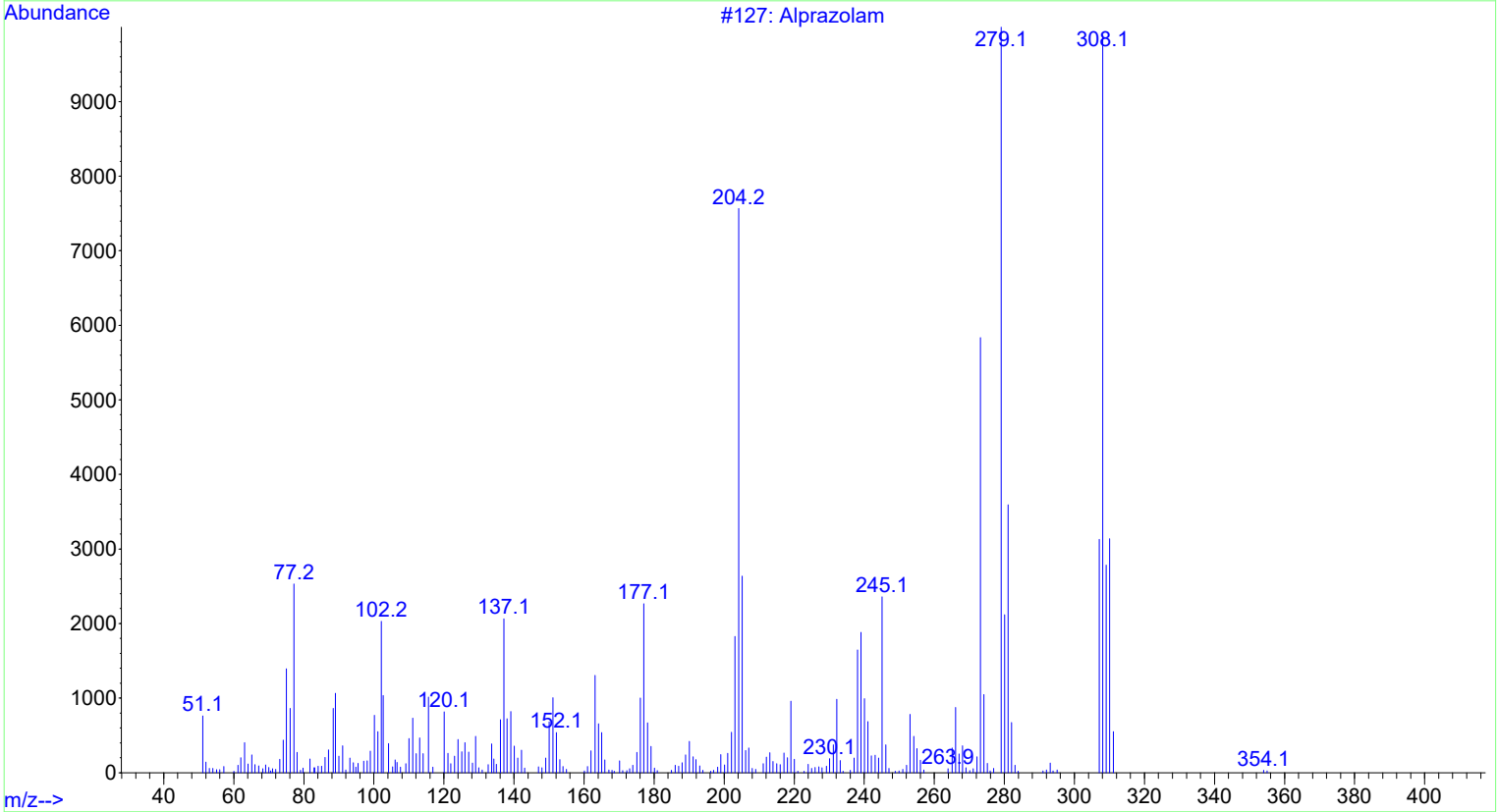
File :D:\MassHunter\GCMS\1\GCMS 4 data\Standards\Weekly Check Mix\
... 2025 Data\062725\00201004.D
Acquired : 27 Jun 2025 10:30 using AcqMethod DrugTest35MS.M
Instrument : GCMS #4
Sample Name: Cayman GC/MS mix 3 (R-24-060) 000002669
Misc Info : in ACN 000002669
Vial Number: 2



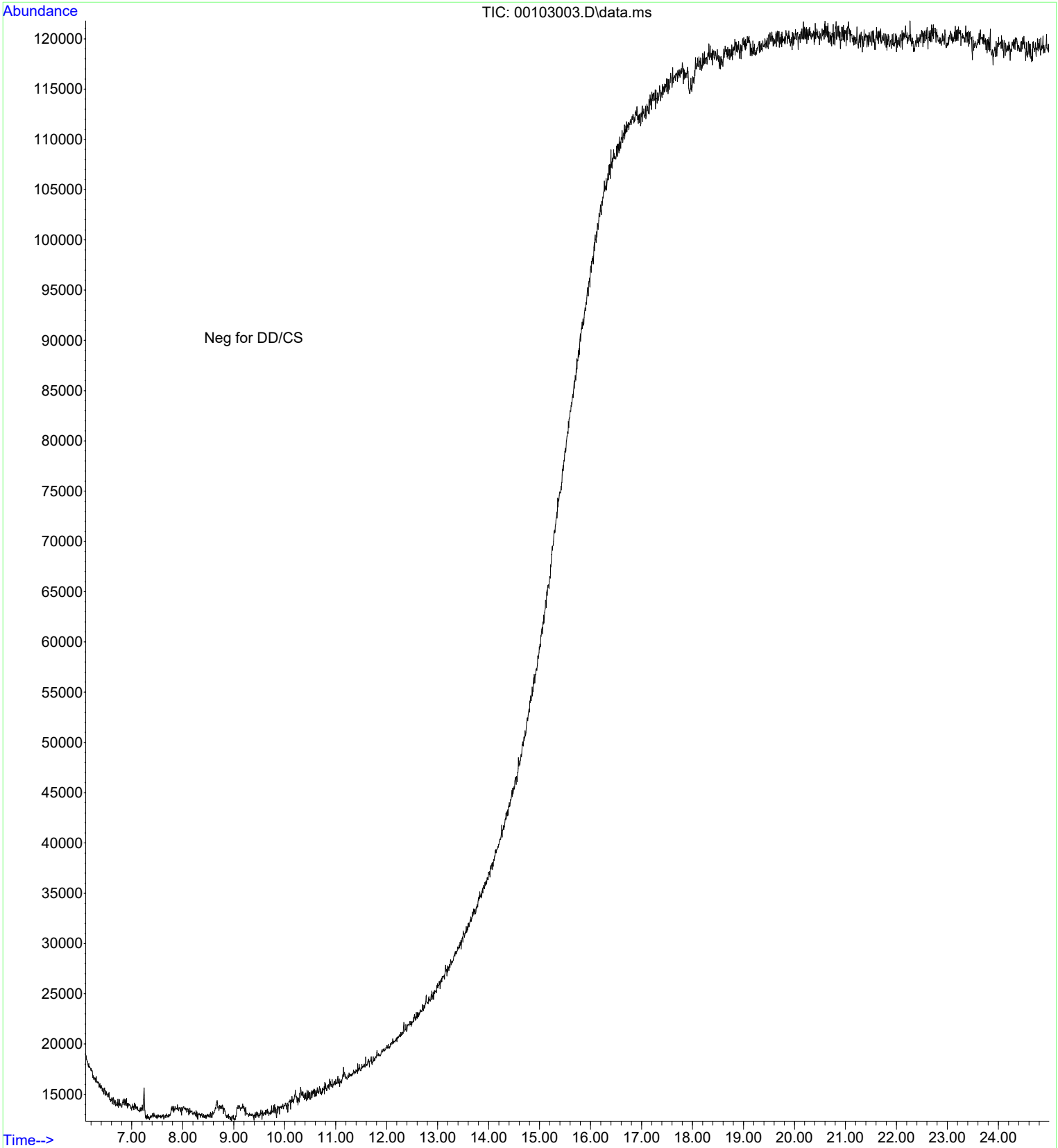


File :D:\MassHunter\GCMS\1\GCMS 4 data\Standards\Weekly Check Mix\
... 2025 Data\062725\00201004.D
Acquired : 27 Jun 2025 10:30 using AcqMethod DrugTest35MS.M
Instrument : GCMS #4
Sample Name: Cayman GC/MS mix 3 (R-24-060) 000002669
Misc Info : in ACN 000002669
Vial Number: 2

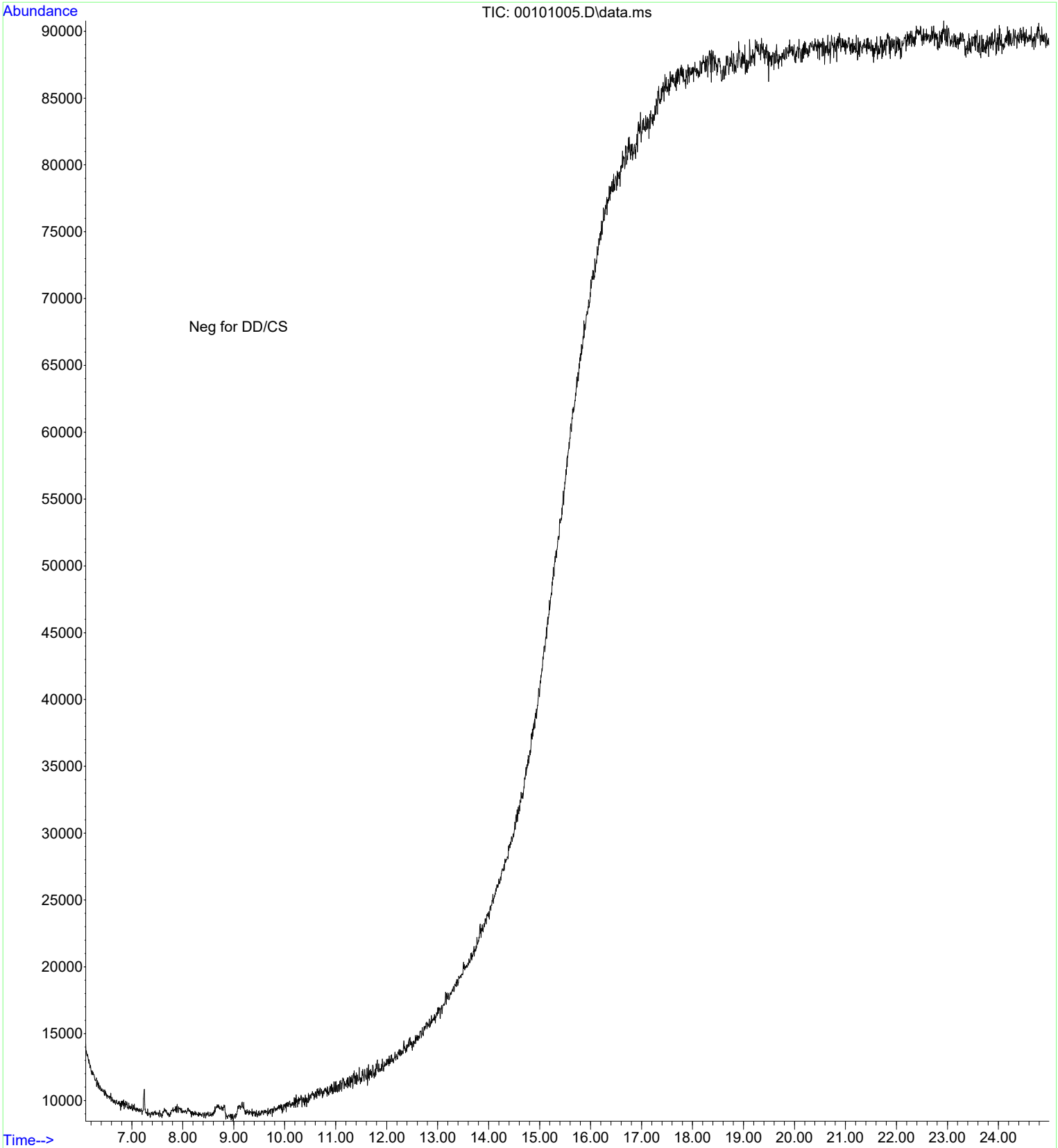




File :D:\MassHunter\GCMS\1\GCMS 4 data\Standards\Weekly Check Mix\
... 2025 Data\062725\00103003.D
Acquired : 27 Jun 2025 10:01 using AcqMethod DrugTest35MS.M
Instrument : GCMS #4
Sample Name: BLANK (C-19-0068) prior to Cayman GC/MS mix 3 (R-24-060) 000002668
Misc Info : ACN 000002668
Vial Number: 1



File :D:\MassHunter\GCMS\1\GCMS 4 data\Standards\Weekly Check Mix\
... 2025 Data\062725\00101005.D
Acquired : 27 Jun 2025 10:59 using AcqMethod DrugTest35MS.M
Instrument : GCMS #4
Sample Name: Blank (C-19-0068) - Instrument ready 000002668
Misc Info : ACN 000002668
Vial Number: 1

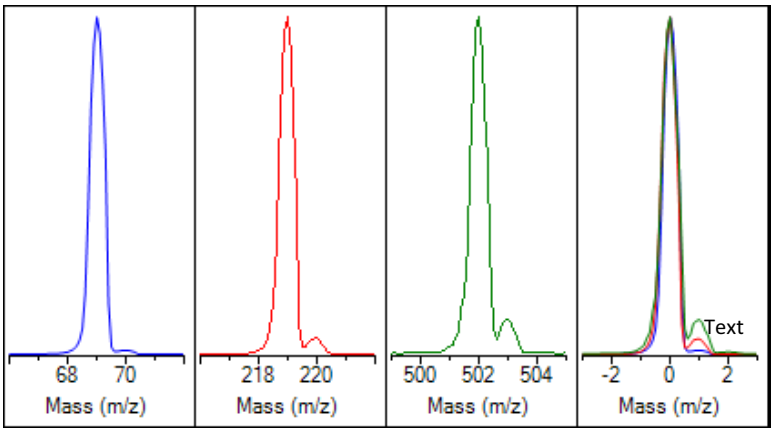


1st tune of the day on 06/30/2025 - Tune evaluation revealed high 69 to isotope 70 ratio. That is not reflected on this autotune - the isotope ratio is 1.2%. The tune will be repeated - DS

High Efficiency Source Autotune - 5977

Tune timestamp: 6/30/2025 8:21 AM (UTC-05:00) GCMS #4

D:\MASSHUNTER\GCMS\1\5977\HES_Atune.u US1837D002



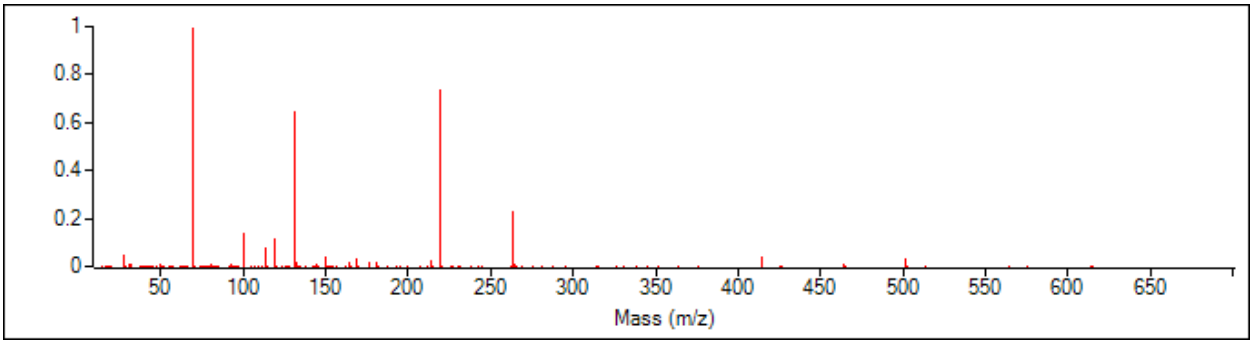
Ion Polarity	Pos	PFTBA	Open
Emission	100.0	Mass Gain	93
Electron Energy	70.0	Mass Offset	-28
Filament	1	Amu Gain	2448
Repeller	13.15	Amu Offset	136.63
Ion Focus	123.9	Width219	0.000
Entrance Lens	10.1	DC Polarity	Pos
Ent Lens Offset	13.90	HED Enable	On
Ion Body	5.25	EM Volts	1945.2
Post Extractor 1	14	Extractor Lens	11.50
Post Extractor 2	34	Scan Speed	3
JetClean Flow Actual/[Setpoint]	0.00 [0.00]	Averages	3

Actual m/z	Abund	Rel Abund	Pw50
69.00	496,062	100.0%	0.60
219.00	369,164	74.4%	0.62
502.00	17,671	3.6%	0.65

Temperatures and Pressures

MS Source	230	Turbo Speed	100.0
MS Quad	150	Hi Vac	7.66e-06

Low	High	Step	Speed	Threshold	Peaks	Base	Abundance	Total Ion
10.00	701.00	0.10	3	100	140	69.00	466,944	1,628,911



Target m/z	Actual m/z	Abund	Rel Abund	Iso m/z	Iso Abund	Iso Ratio
69.00	69.00	466,944	100.0%	70.00	5,681	1.2%
219.00	219.00	342,976	73.5%	219.90	16,600	4.8%
502.00	501.90	17,472	3.7%	503.00	1,750	10.0%

Air/Water Check: H20 ~0.5% N2 ~5.0% O2 ~0.5% CO2 ~0.3% N2/H20 ~948.3%

Column(1) Flow: 0.70 Column(2): 0.00 ml/min Interface Temp: 280

Ramp Criteria:

Ion Focus maximum 128 volts using ion 502; Electron Multiplier Gain 17347.403

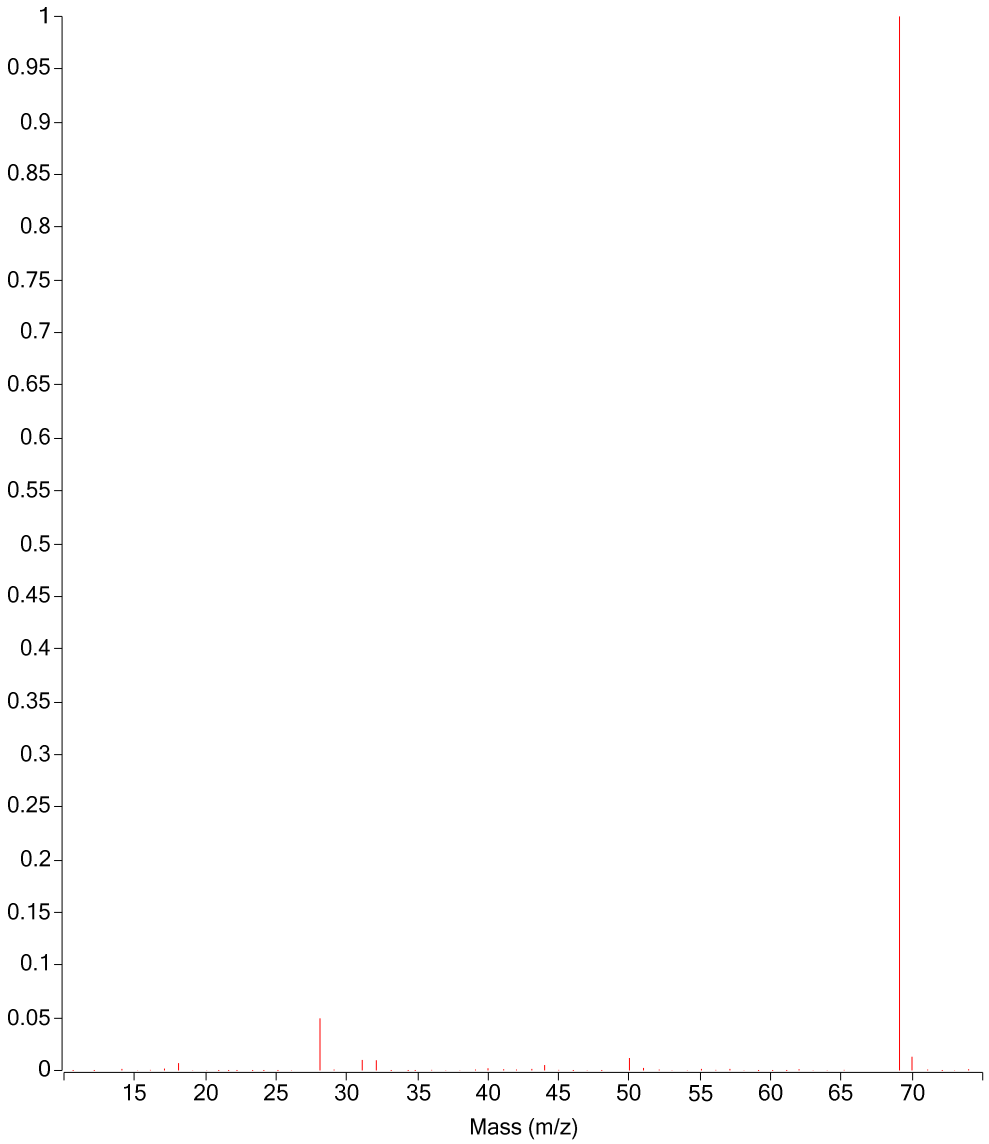
Repeller maximum 35 volts using ion 219; Gain Factor 0.1735

Mass Gain Values(Scan Speed): 90(3) 94(2) 104(1) 114(0) 157(FS1) 174(FS2) 173(FS3)

TARGET MASS:	50	69	131	219	414	502	1050
Amu Offset	136.6	136.6	136.6	136.6	136.6	136.6	136.6
Entrance Lens Offset	13.9	13.9	13.9	13.9	13.9	13.9	13.9

597x Air and Water Check

Instrument: GCMS #4
Mon Jun 30 08:10:18 2025 D:\MassHunter\GCMS\1\5977\



Current Params used: HES_Atune.u

Relative abundances:

18/69 =	0.71	Water%	(counts=6994)
28/69 =	4.96	Nitrogen%	(counts=49032)
32/69 =	0.98	Oxygen%	(counts=9694)
44/69 =	0.50	Carbon Dioxide%	(counts=4950)
28/18 =	701.06	Nitrogen/Water%	

Instrument Name : GCMS #4
DC Polarity : Positive
Filament 1
Current Vacuum status :High Vacuum: 5.34E-06 Torr Turbo:100%

BasePeak should be 69 or 219		OK
Position of mass 69	69.00	OK
Position of mass 219	219.00	OK
Position of mass 502	501.99	OK
Position of isotope mass 70	70.00	OK
Position of isotope mass 220	219.96	OK
Position of isotope mass 503	503.00	OK
Ratio of mass 70 to mass 69(0.5 - 1.6%)	1.83	High
Ratio of mass 220 to mass 219(3.2 - 5.4%)	4.58	OK
Ratio of mass 503 to mass 502(7.9 - 12.3%)	10.23	OK
Possible causes include: Dirty ion source		
Ratio of 219 to 69 should be > 40% and is	74.47	OK
Ratio of 502 to 69 should be > 2.4% and is	3.13	OK
Mass 69 Precursor (<= 3%)	0.73	OK
Mass 219 Precursor (<= 6%)	2.30	OK
Mass 502 Precursor (<= 12%)	4.70	OK

Isotope ratio is elevated, tune will be repeated - DS

Text

597x Air and Water Check
Mon Jun 30 08:28:09 2025 Instrument: GCMS #4
D:\MASSHUNTER\GCMS\1\5977\HES_Atune.u US1837D002

Testing for a leak in the system		
Ratio of 18 to 69 (<20%)	0.49	OK
Ratio of 28 to 69 (<10%)	4.44	OK
Electron Multiplier Voltage	1945	OK

One or more specifications was out of range.
Please correct before continuing.

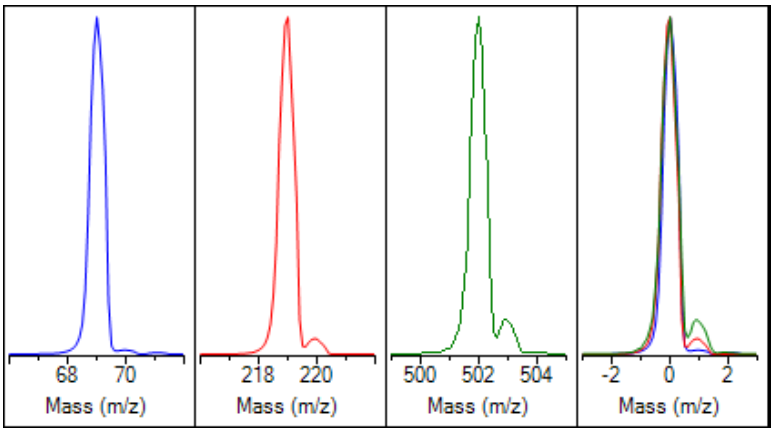
Failure of one or more tests may be caused by
selecting the wrong DC Polarity.
Please verify that the correct DC Polarity has been set
by removing the detector cover and checking the label
at the top of the EID.

2nd tune on 06/30/2025 - all parameters are OK - DS

High Efficiency Source Autotune - 5977

Tune timestamp: 6/30/2025 8:38 AM (UTC-05:00) GCMS #4

D:\MASSHUNTER\GCMS\1\5977\HES_Atune.u US1837D002



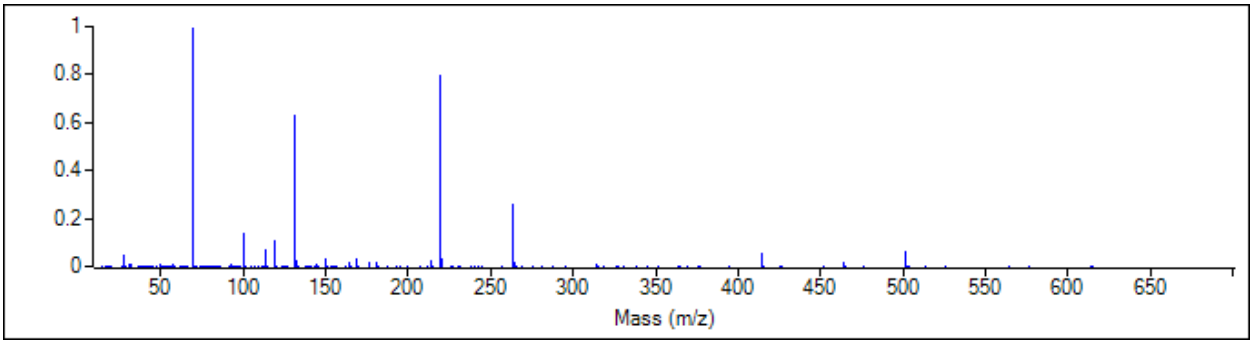
Ion Polarity	Pos	PFTBA	Open
Emission	100.0	Mass Gain	92
Electron Energy	70.0	Mass Offset	-28
Filament	1	Amu Gain	2449
Repeller	16.43	Amu Offset	136.81
Ion Focus	149.6	Width219	0.000
Entrance Lens	7.5	DC Polarity	Pos
Ent Lens Offset	18.23	HED Enable	On
Ion Body	5.25	EM Volts	1962.8
Post Extractor 1	12	Extractor Lens	12.00
Post Extractor 2	29	Scan Speed	3
JetClean Flow Actual/[Setpoint]	0.00 [0.00]	Averages	3

Actual m/z	Abund	Rel Abund	Pw50
69.00	499,543	100.0%	0.59
219.00	407,123	81.5%	0.62
502.00	31,005	6.2%	0.65

Temperatures and Pressures

MS Source	230	Turbo Speed	100.0
MS Quad	150	Hi Vac	8.01e-06

Low	High	Step	Speed	Threshold	Peaks	Base	Abundance	Total Ion
10.00	701.00	0.10	3	100	160	69.00	464,576	1,690,649



Target m/z	Actual m/z	Abund	Rel Abund	Iso m/z	Iso Abund	Iso Ratio
69.00	69.00	464,576	100.0%	70.00	6,114	1.3%
219.00	219.00	370,624	79.8%	220.00	17,312	4.7%
502.00	502.00	30,144	6.5%	503.00	3,136	10.4%

Air/Water Check: H20 ~0.6% N2 ~4.6% O2 ~0.6% CO2 ~0.3% N2/H20 ~774.8%

Column(1) Flow: 0.70 Column(2): 0.00 ml/min Interface Temp: 280

Ramp Criteria:

Ion Focus maximum 128 volts using ion 502; Electron Multiplier Gain 12110.023

Repeller maximum 35 volts using ion 219; Gain Factor 0.1211

Mass Gain Values(Scan Speed): 98(3) 101(2) 107(1) 128(0) 181(FS1) 180(FS2) 114(FS3)

TARGET MASS:	50	69	131	219	414	502	1050
Amu Offset	136.8	136.8	136.8	136.8	136.8	136.8	136.8
Entrance Lens Offset	18.2	18.2	18.2	18.2	18.2	18.2	18.2

Instrument Name : GCMS #4
DC Polarity : Positive
Filament 1
Current Vacuum status :High Vacuum: 5.72E-06 Torr Turbo:100%

2nd tune evaluation - all parameters OK -DS

BasePeak should be 69 or 219		OK
Position of mass 69	69.00	OK
Position of mass 219	219.00	OK
Position of mass 502	502.01	OK
Position of isotope mass 70	70.00	OK
Position of isotope mass 220	220.00	OK
Position of isotope mass 503	503.02	OK
Ratio of mass 70 to mass 69(0.5 - 1.6%)	1.24	OK
Ratio of mass 220 to mass 219(3.2 - 5.4%)	4.64	OK
Ratio of mass 503 to mass 502(7.9 - 12.3%)	9.93	OK
Ratio of 219 to 69 should be > 40% and is	79.52	OK
Ratio of 502 to 69 should be > 2.4% and is	5.51	OK
Mass 69 Precursor (<= 3%)	0.95	OK
Mass 219 Precursor (<= 6%)	2.91	OK
Mass 502 Precursor (<= 12%)	4.75	OK

597x Air and Water Check
Mon Jun 30 08:41:58 2025 Instrument: GCMS #4
D:\MASSHUNTER\GCMS\1\5977\HES_Atune.u US1837D002

Testing for a leak in the system

Ratio of 18 to 69 (<20%)	0.58	OK
Ratio of 28 to 69 (<10%)	4.33	OK
Electron Multiplier Voltage	1963	OK

Tune portion of System Verification passed.

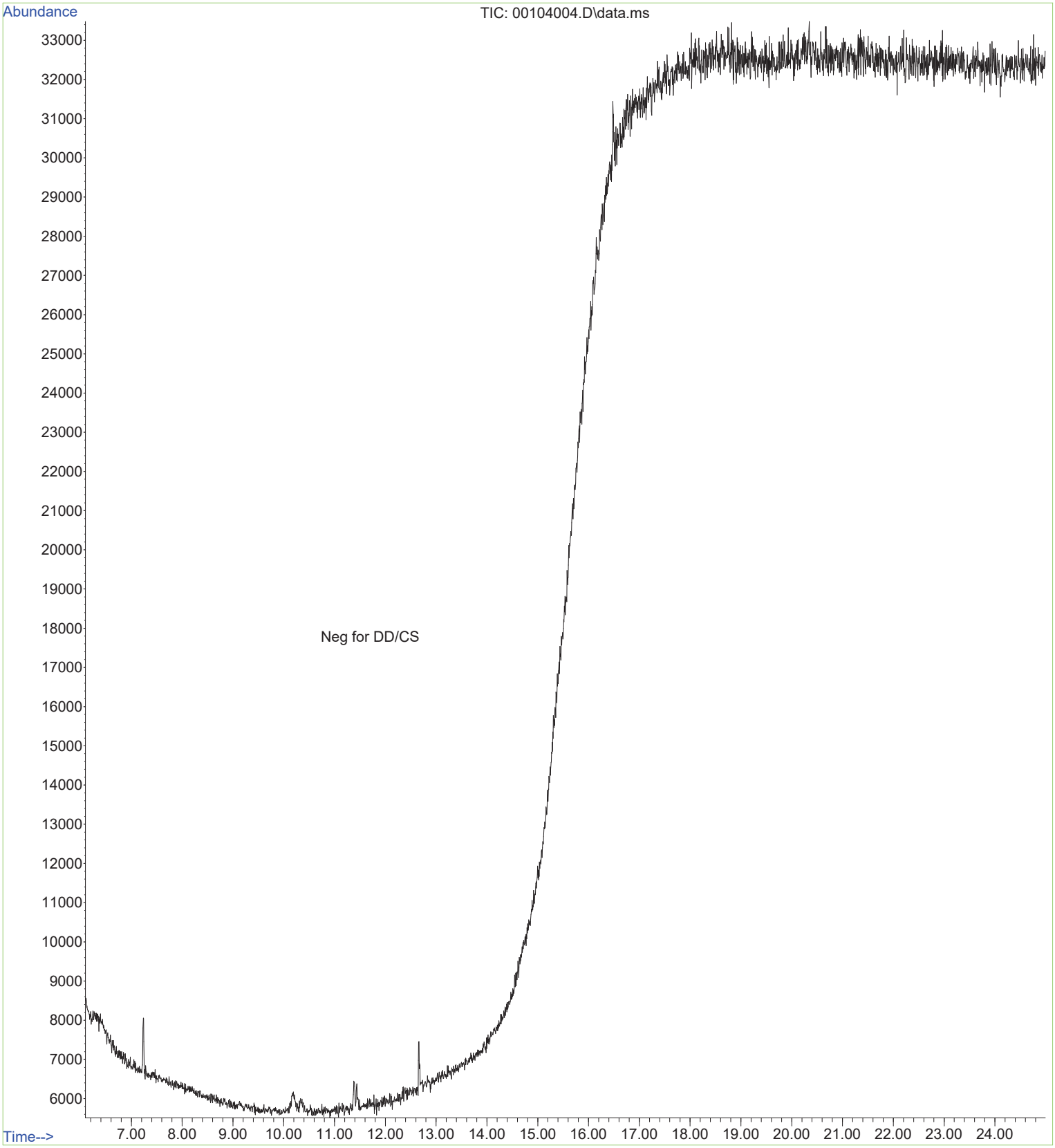
BCCL GC/MS #4
Retention Times for the Week of:

06/30/2025 - 07/06/2025

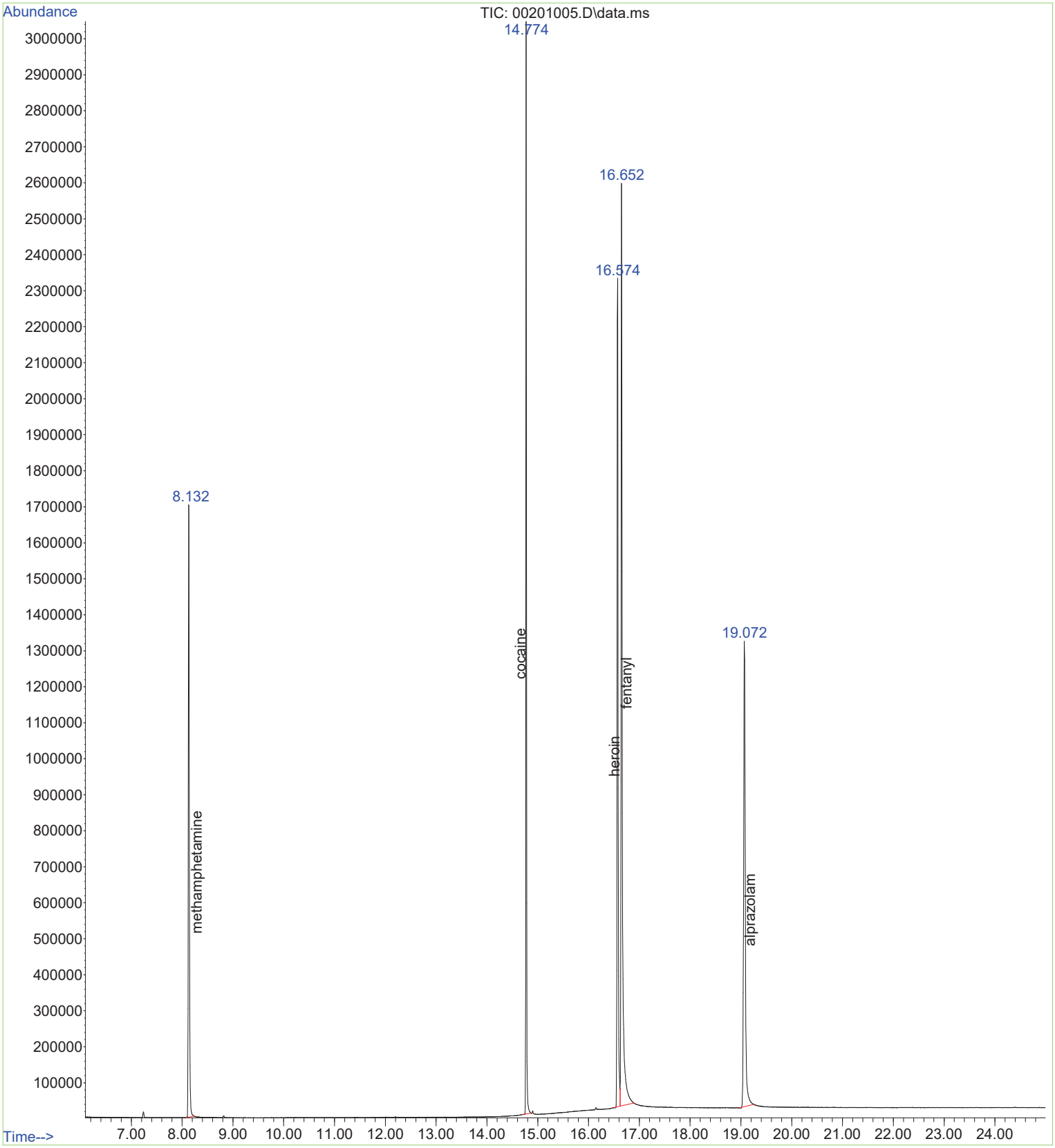
[X] **Tune: KB 06/30/2025 - HES Autotune**

Standard	Standard #	Method	Retention Time	1% Window	
Methamphetamine	R-24-060	DrugTest35MS	8.132	8.050	8.213
Cocaine	R-24-060	DrugTest35MS	14.774	14.626	14.921
Heroin	R-24-060	DrugTest35MS	16.574	16.408	16.739
Fentanyl	R-24-060	DrugTest35MS	16.652	16.485	16.818
Alprazolam	R-24-060	DrugTest35MS	19.072	18.881	19.262

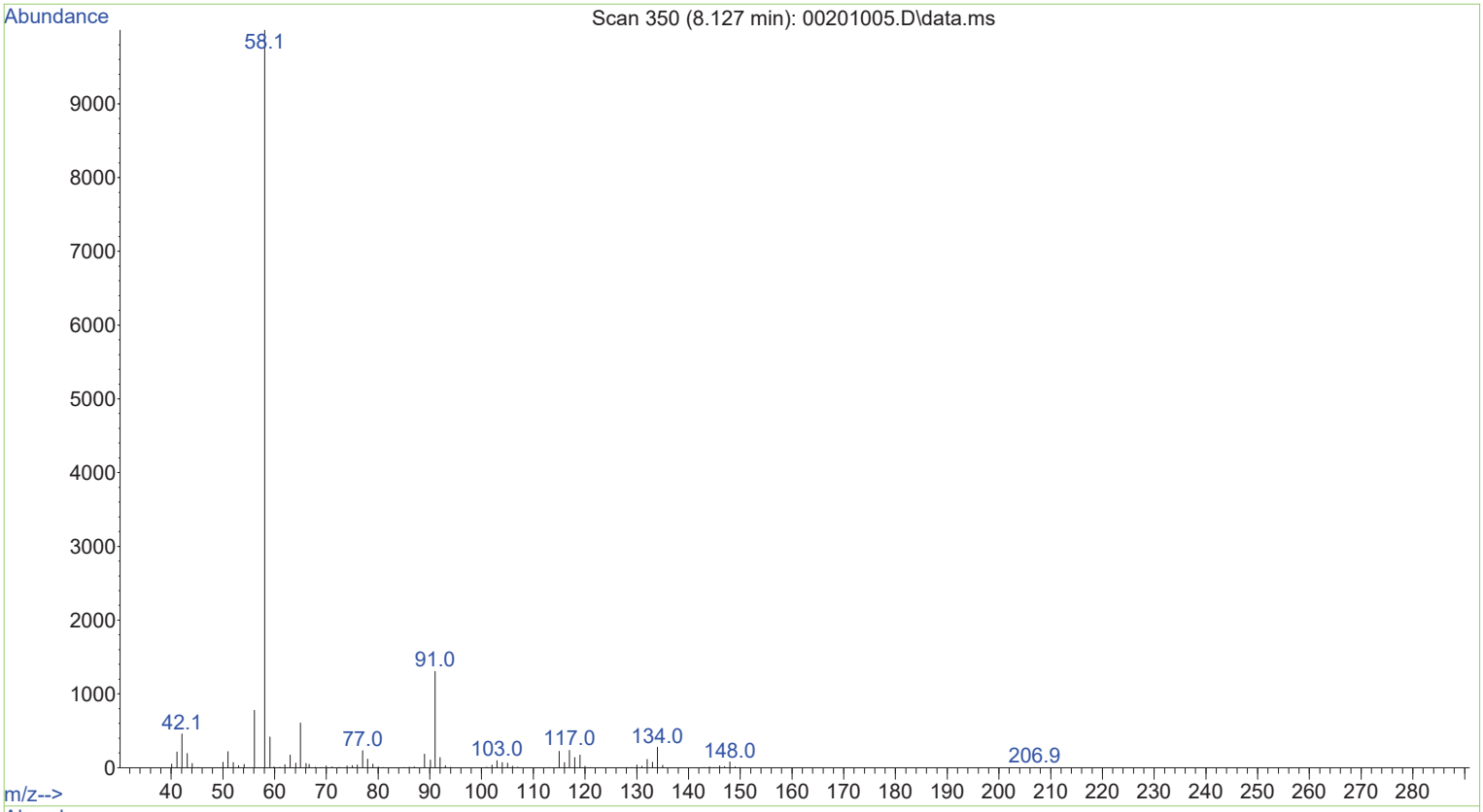
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Instrument : GCMS #4
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Misc Info : ACN 000002668
Vial Number: 1

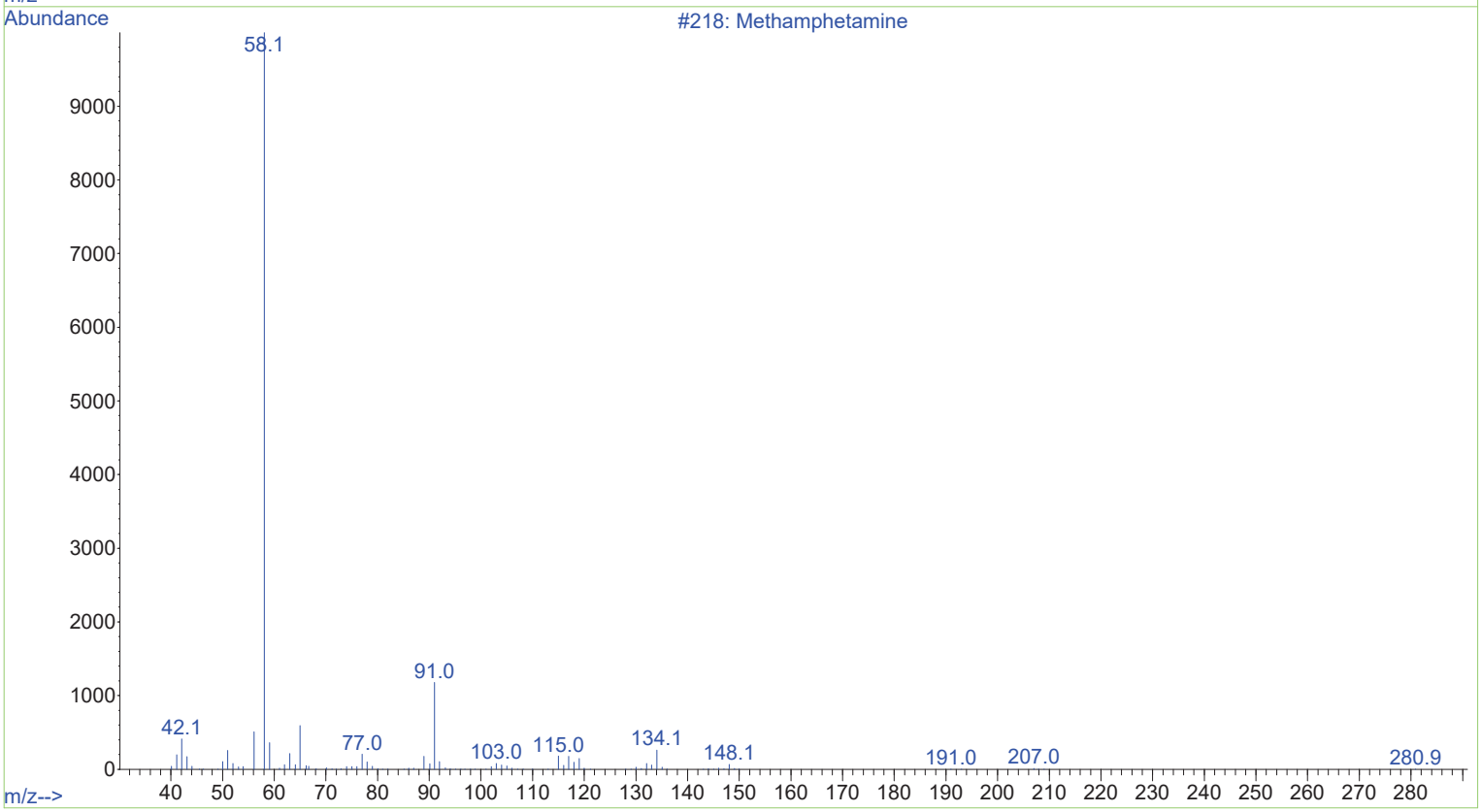


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Sample Name: Cayman GC/MS mix 3 (R-24-060) 000002669
Misc Info : in ACN 000002669
Vial Number: 2

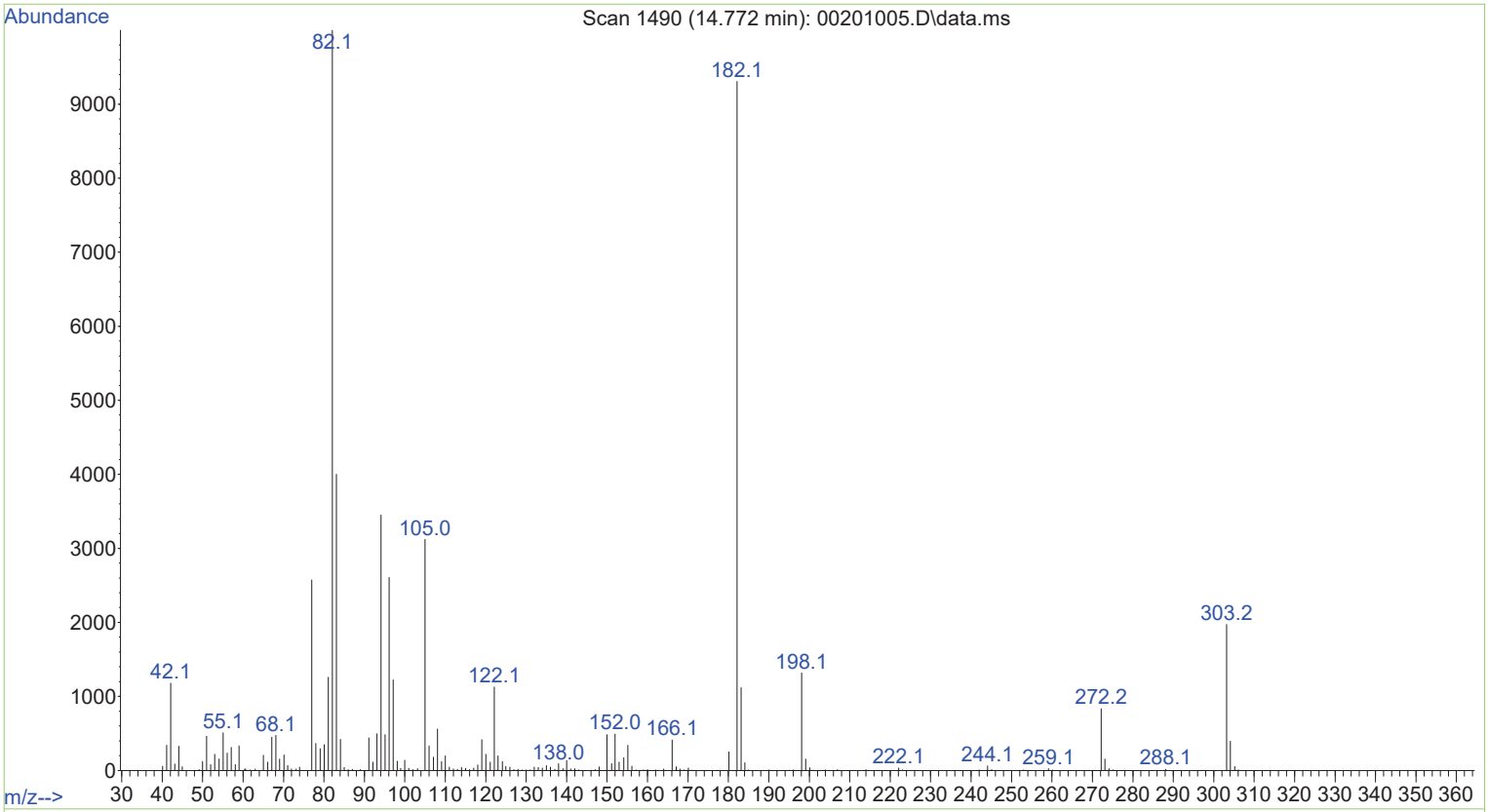


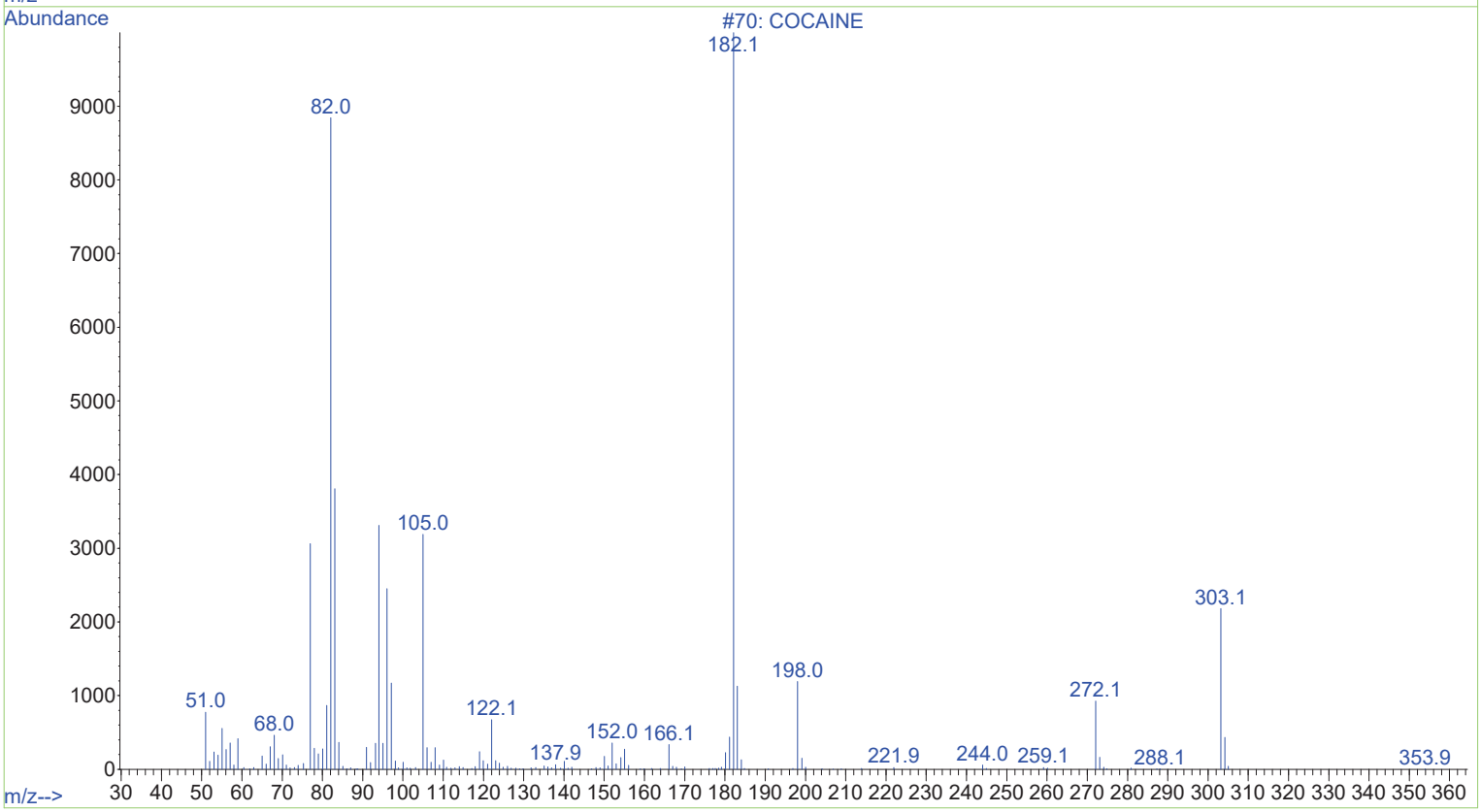
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Misc Info : in ACN 000002669
Vial Number: 2



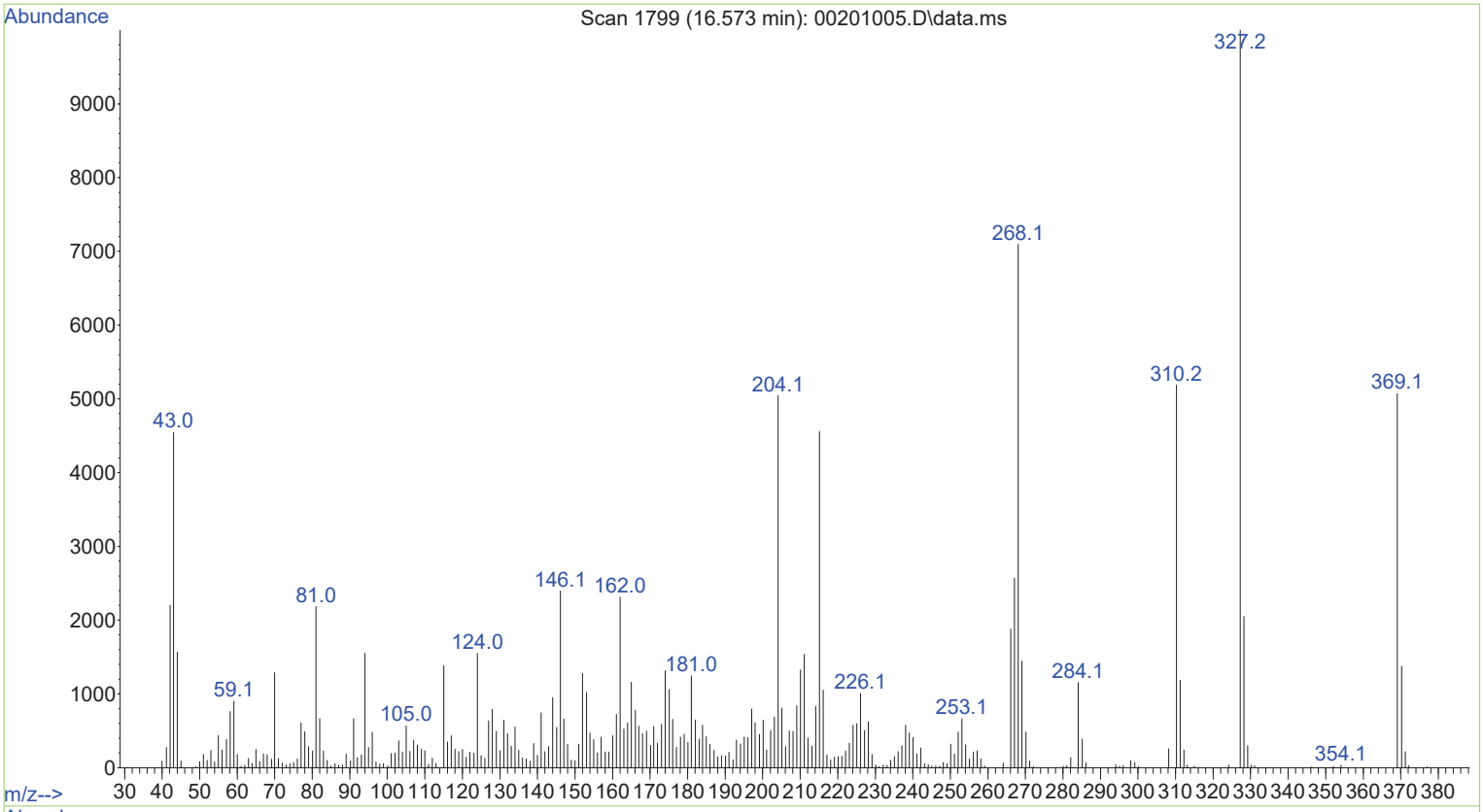


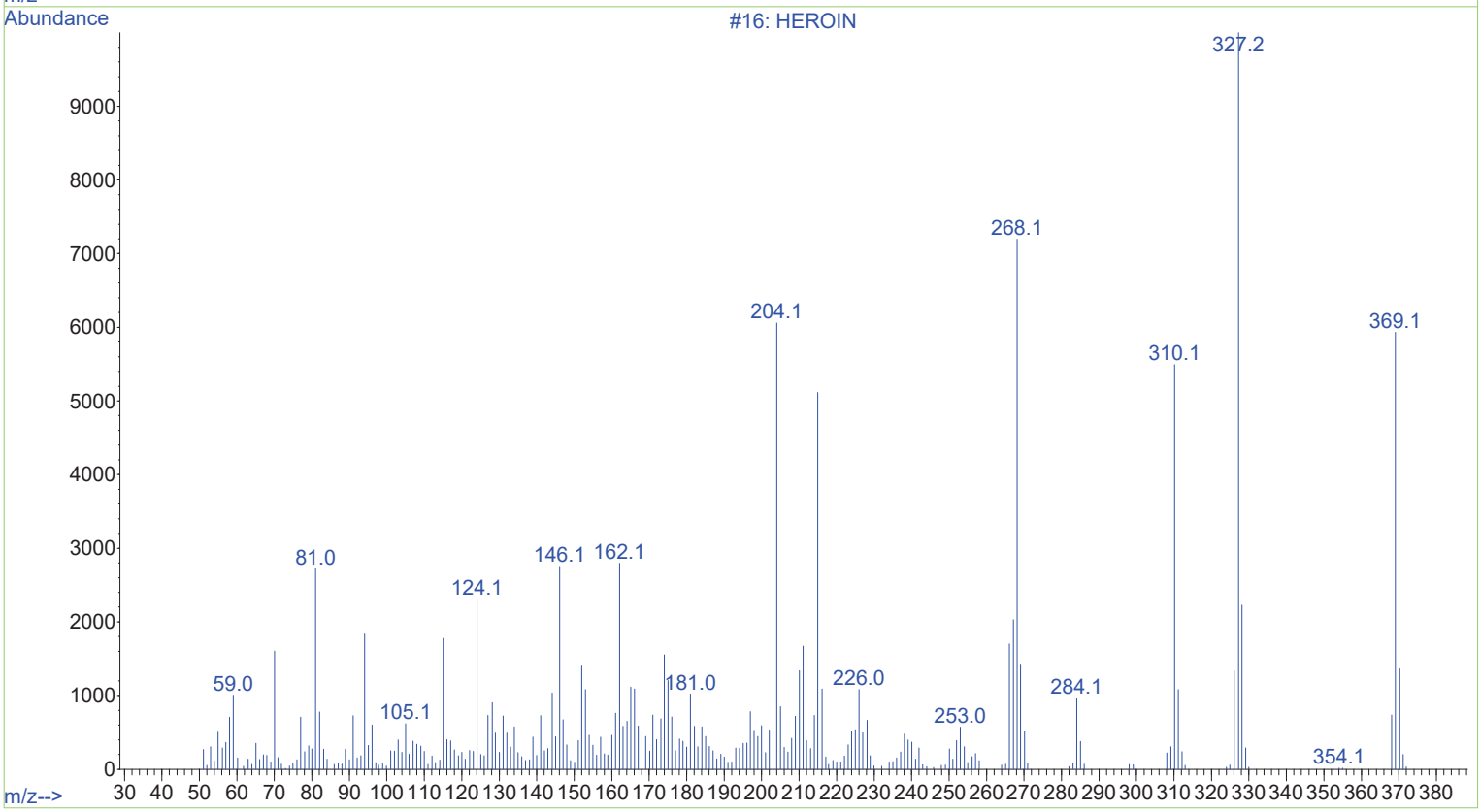
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Instrument : GCMS #4
Sample Name: Cayman GC/MS mix 3 (R-24-060) 000002669
Misc Info : in ACN 000002669
Vial Number: 2



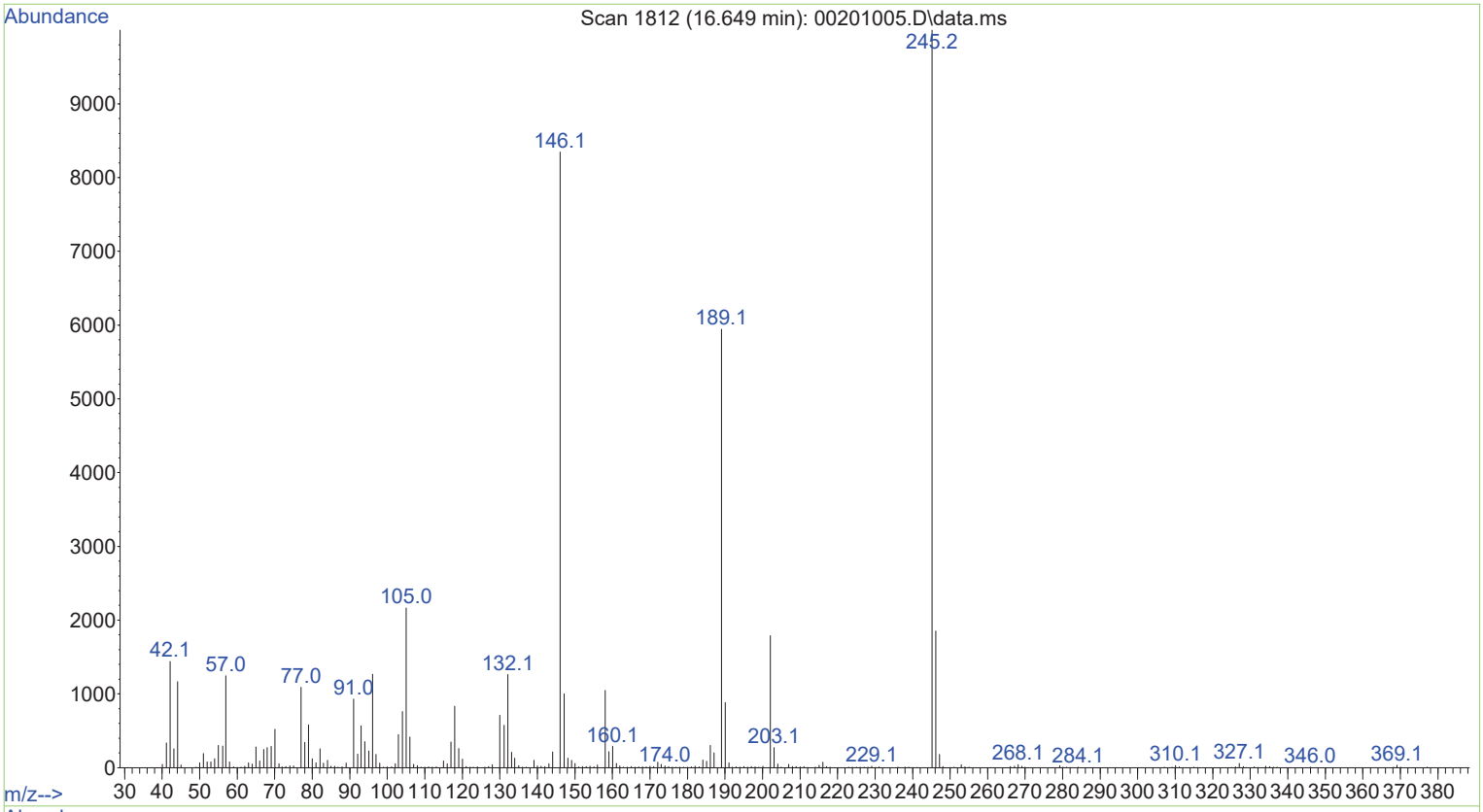


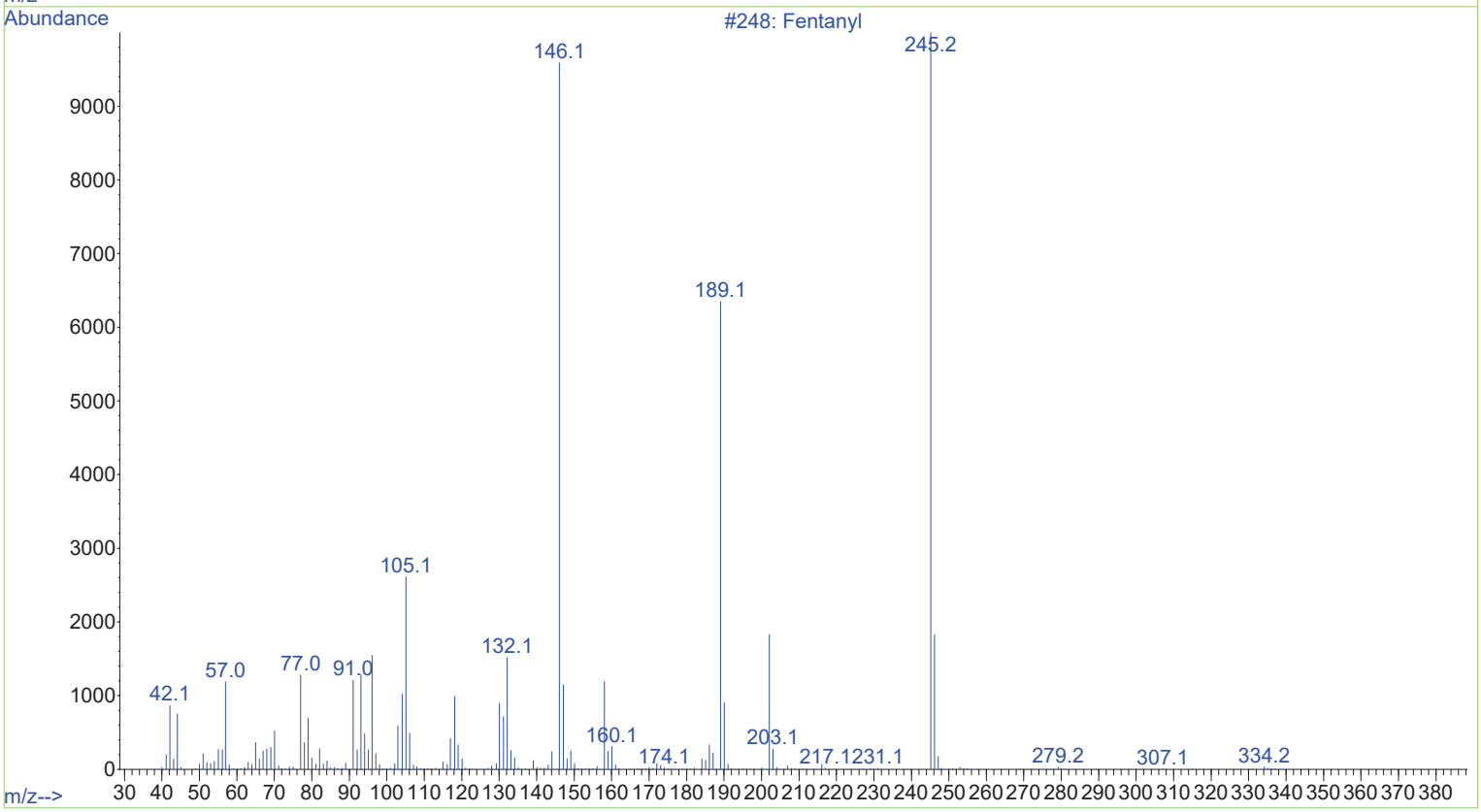
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Misc Info : in ACN 000002669
Vial Number: 2



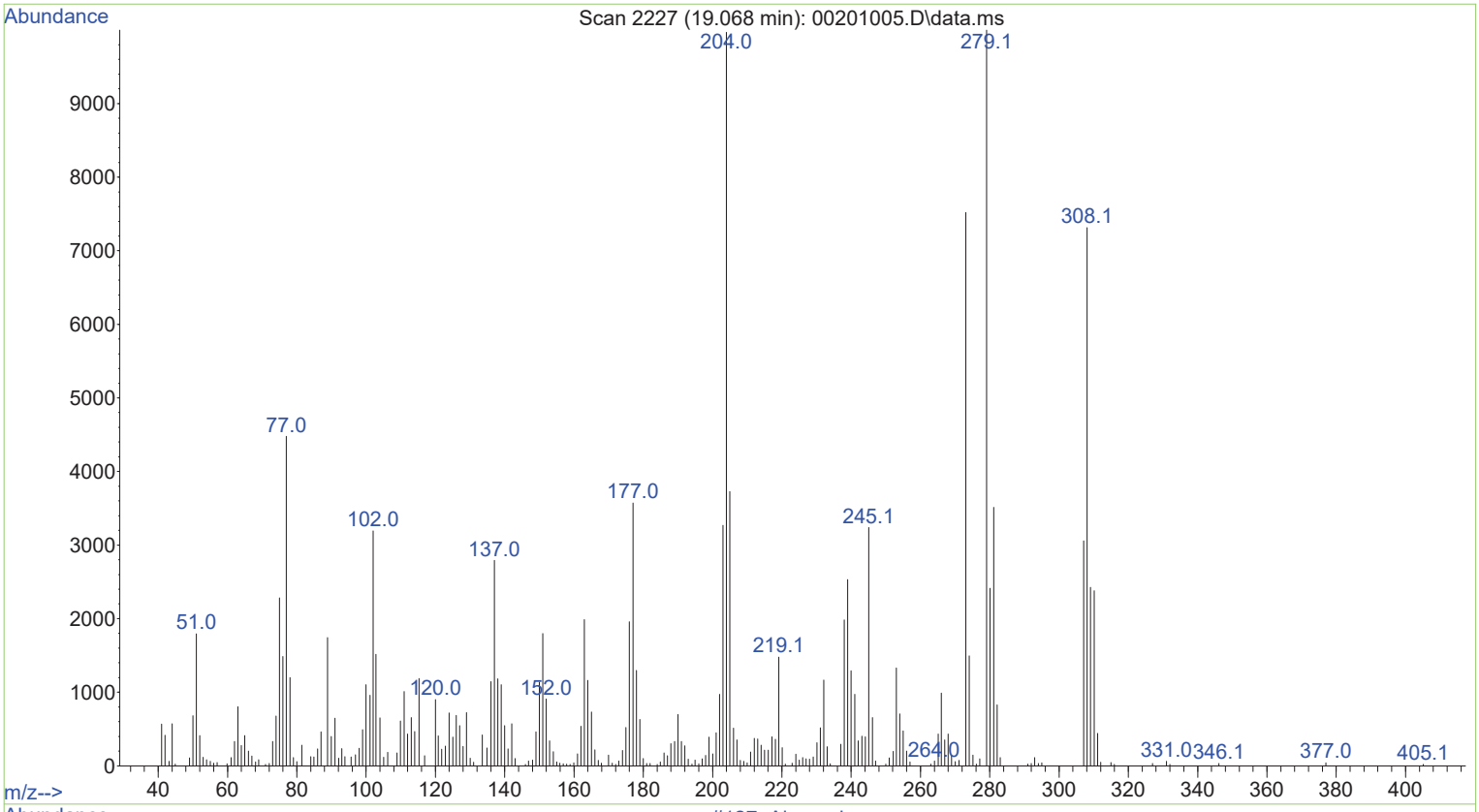


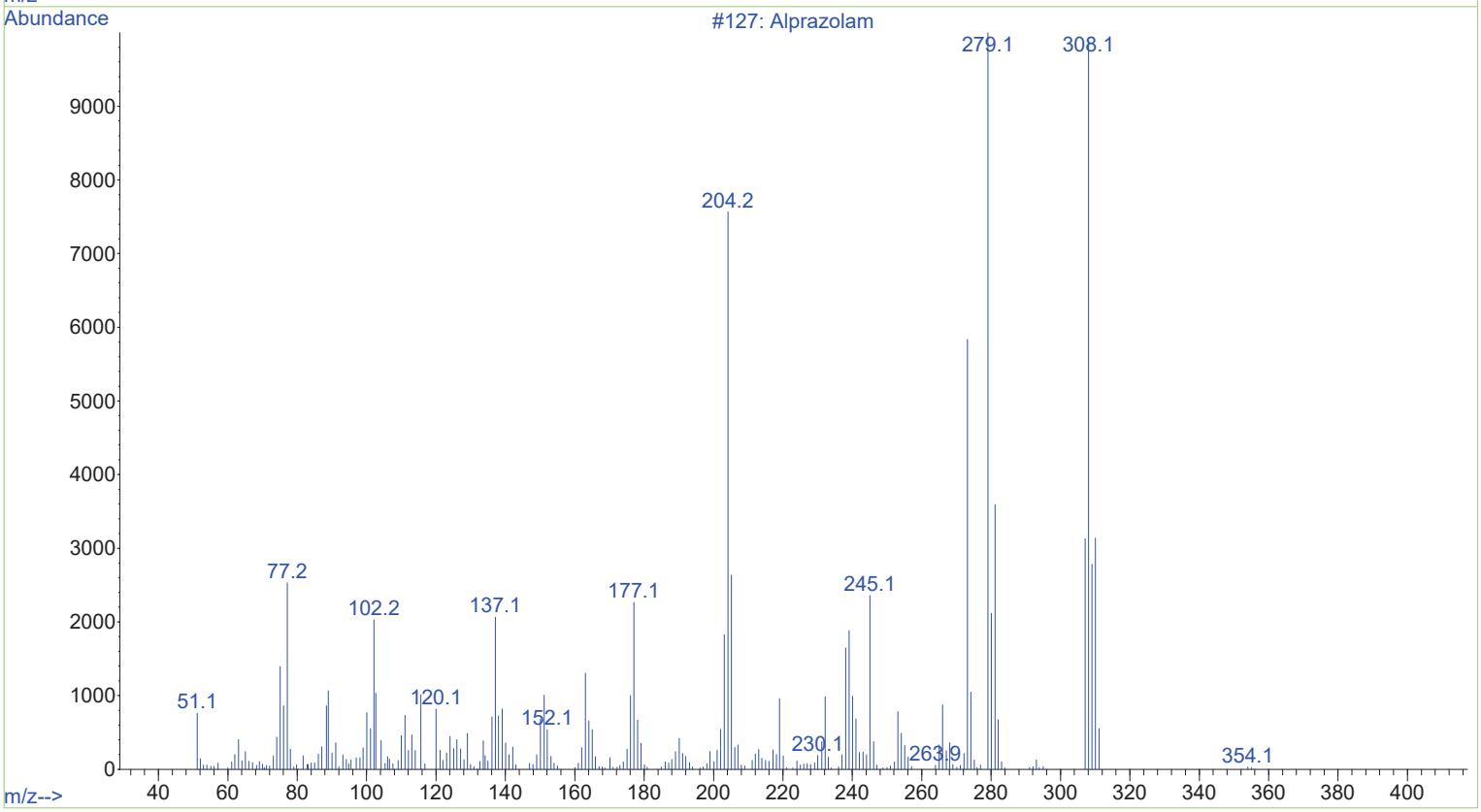
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Instrument : GCMS #4
Sample Name: Cayman GC/MS mix 3 (R-24-060) 000002669
Misc Info : in ACN 000002669
Vial Number: 2





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Acquired : 30 Jun 2025 10:30 using AcqMethod DrugTest35MS.M
Instrument : GCMS #4
Sample Name: Cayman GC/MS mix 3 (R-24-060) 000002669
Misc Info : in ACN 000002669
Vial Number: 2





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Acquired : 30 Jun 2025 10:59 using AcqMethod DrugTest35MS.M
Instrument : GCMS #4
Sample Name: Blank (C-19-0068) - Instrument ready 000002668
Misc Info : ACN 000002668
Vial Number: 1

