Brazoria County Crime Lab

Seized Drugs Section

GC-MS Maintenance Log

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

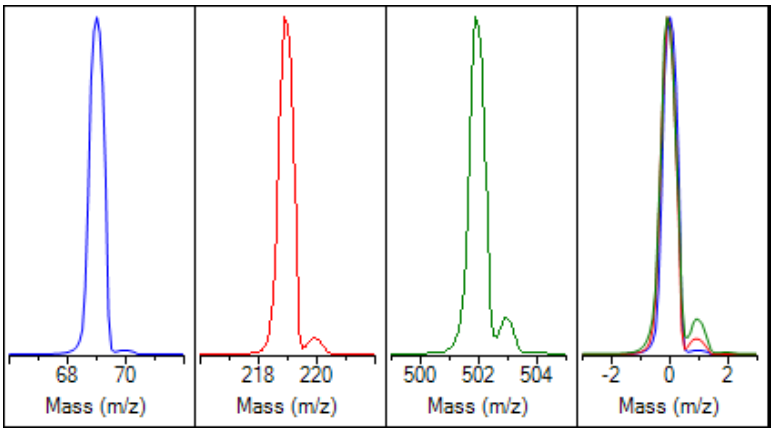
Entry Number	Date	He Tank Pressure	Autotune	Septum Change	Wash Vials Filled	Liner Change	Gold Seal Replaced	Column Cut	Computer Restarted	Maintenance/ PM	Analyst/ Technician	Comments	Initials
1	2/3/2025	N/A	Pass	N/A	✓	N/A	N/A	N/A	N/A	Maintenance	Analyst		DS
2	2/6/2025	2600	Pass	N/A	N/A	N/A	N/A	N/A	N/A	Maintenance	Analyst	Helium tank change - KB	DS
3	2/10/2025	2000	Pass	N/A	✓	N/A	N/A	N/A	N/A	Maintenance	Analyst		DS
4	2/17/2025	1000	Pass	N/A	✓	N/A	N/A	N/A	N/A	Maintenance	Analyst		DS
5	2/24/2025	2400	Pass	✓	✓	✓	N/A	N/A	N/A	Maintenance	Analyst	Helium tank change - DS (02/23/25)	DS/DN

Signature: Derek Sanders **Date:** 28 Feb 2025

High Efficiency Source Autotune - 5977

Tune timestamp: 2/3/2025 9:08 AM (UTC-06:00) GCMS #4

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



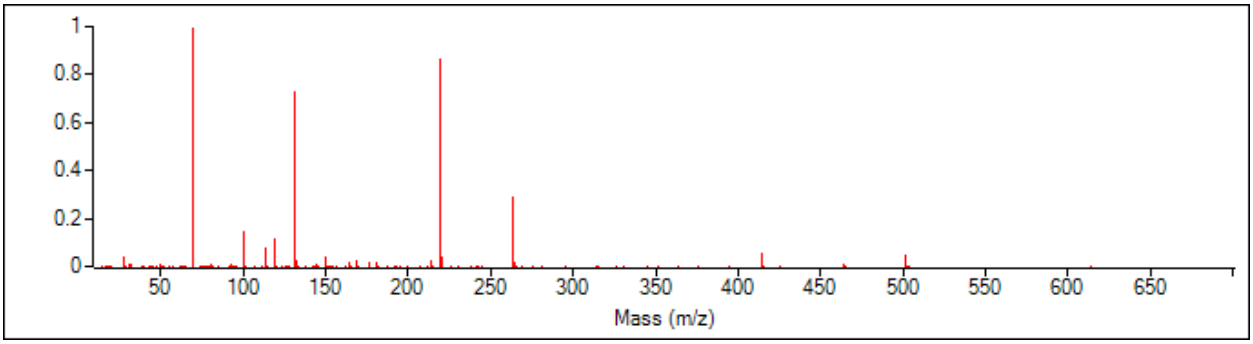
Ion Polarity	Pos	PFTBA	Open
Emission	100.0	Mass Gain	95
Electron Energy	70.0	Mass Offset	-28
Filament	1	Amu Gain	2430
Repeller	13.15	Amu Offset	136.88
Ion Focus	149.6	Width219	0.001
Entrance Lens	10.1	DC Polarity	Pos
Ent Lens Offset	14.94	HED Enable	On
Ion Body	5.00	EM Volts	2156.2
Post Extractor 1	15	Extractor Lens	13.50
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	476,881	100.0%	0.60
218.90	425,263	89.2%	0.61
501.90	26,801	5.6%	0.62

Temperatures and Pressures

MS Source	230	Turbo Speed	100.0
MS Quad	150	Hi Vac	7.20e-06

Low	High	Step	Speed	Threshold	Peaks	Base	Abundance	Total Ion
10.00	701.00	0.10	3	100	121	69.00	454,976	1,729,561



Target m/z	Actual m/z	Abund	Rel Abund	Iso m/z	Iso Abund	Iso Ratio
69.00	69.00	454,976	100.0%	70.00	5,335	1.2%
219.00	219.00	394,432	86.7%	220.00	18,048	4.6%
502.00	502.00	24,104	5.3%	503.00	2,621	10.9%

Air/Water Check: H20 ~0.2% N2 ~3.9% O2 ~1.1% CO2 ~0.4% N2/H20 ~1625.5%

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 8427.439

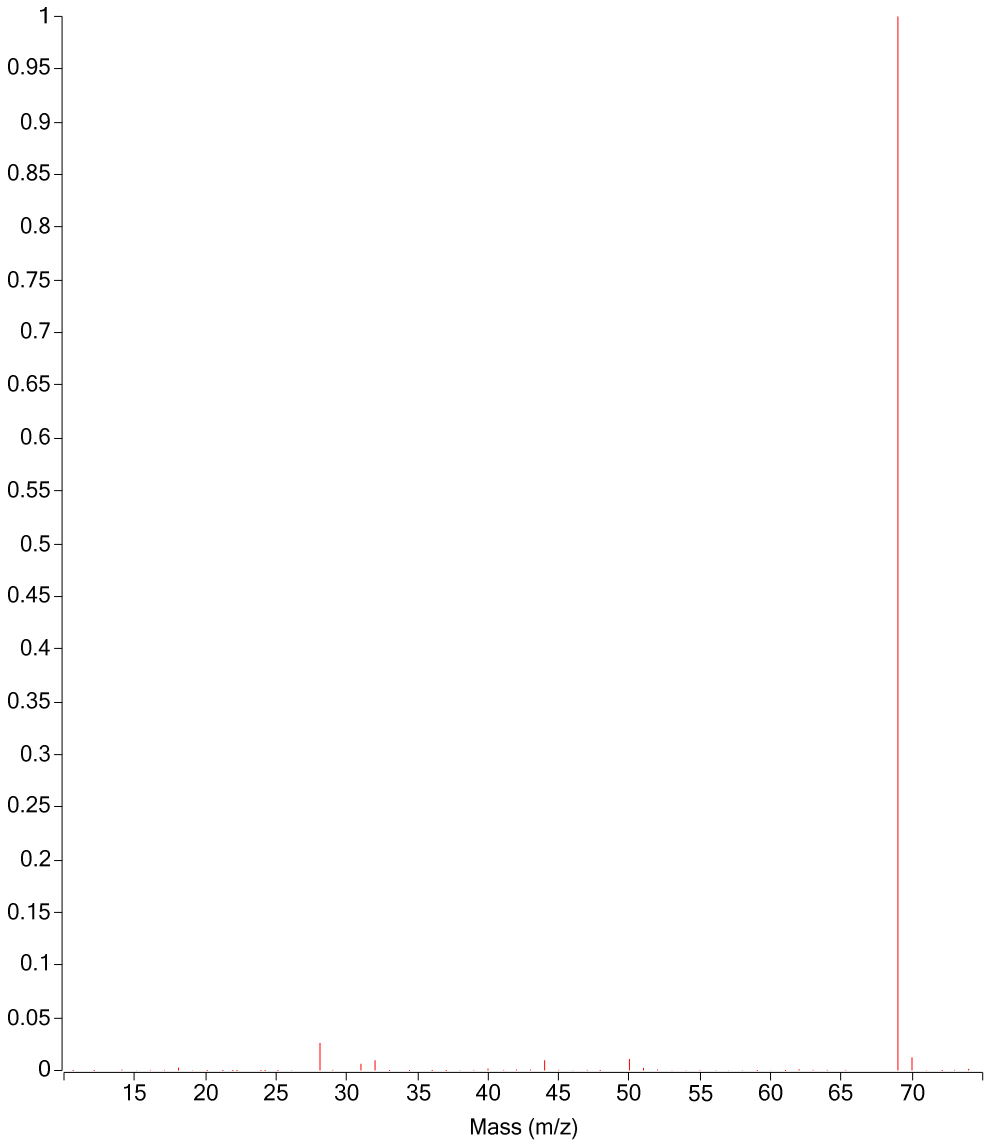
Repeller maximum 35 volts using ion 219; Gain Factor 0.0843

Mass Gain Values(Scan Speed): 102(3) 106(2) 116(1) 133(0) 186(FS1) 185(FS2) 119(FS3)

TARGET MASS:	50	69	131	219	414	502	1050
Amu Offset	136.9	136.9	136.9	136.9	136.9	136.9	136.9
Entrance Lens Offset	14.9	14.9	14.9	14.9	14.9	14.9	14.9

597x Air and Water Check

Instrument: GCMS #4
Mon Feb 03 08:56:27 2025 D:\MassHunter\GCMS\1\5977\



Current Params used: HES_Atune.u

Relative abundances:

18/69 =	0.27	Water%	(counts=2851)
28/69 =	2.62	Nitrogen%	(counts=27744)
32/69 =	0.97	Oxygen%	(counts=10333)
44/69 =	0.98	Carbon Dioxide%	(counts=10353)
28/18 =	973.13	Nitrogen/Water%	

Instrument Name : GCMS #4
DC Polarity : Positive
Filament 1
Current Vacuum status :High Vacuum: 5.59E-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	502.00	OK
Position of isotope mass 70	70.00	OK
Position of isotope mass 220	219.94	OK
Position of isotope mass 503	503.00	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%)	4.63	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	87.92	OK
Ratio of 502 to 69 should be > 2.4% and is	6.15	OK
Mass 69 Precursor (<= 3%)	0.63	OK
Mass 219 Precursor (<= 6%)	1.17	OK
Mass 502 Precursor (<= 12%)	2.61	OK

597x Air and Water Check
Mon Feb 03 09:13:08 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%)	0.23	OK
Ratio of 28 to 69 (<10%)	3.95	OK
Electron Multiplier Voltage	2156	OK

Tune portion of System Verification passed.

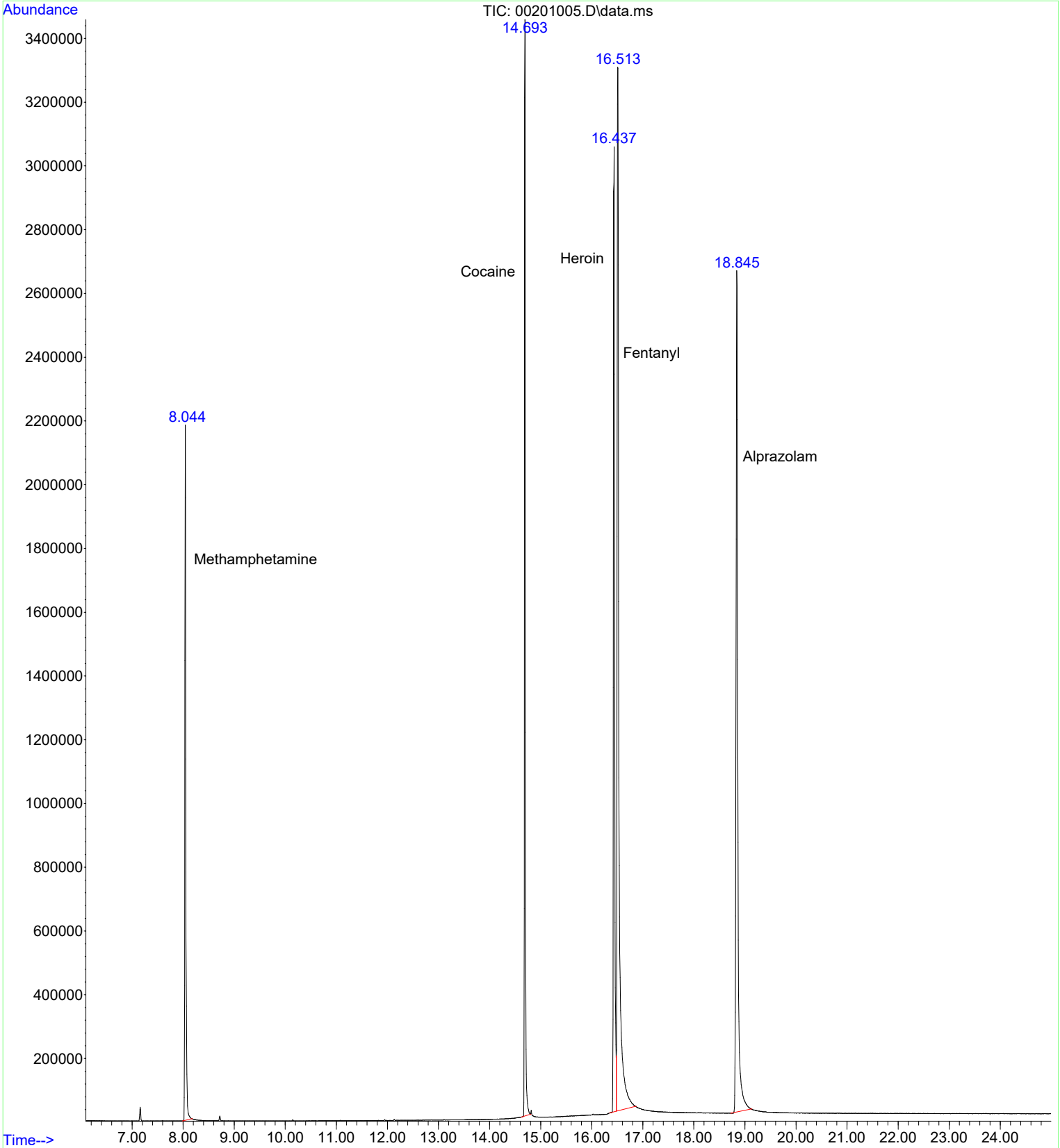
BCCL GC/MS #4
Retention Times for the Week of:

02/03/2025 - 02/09/2025

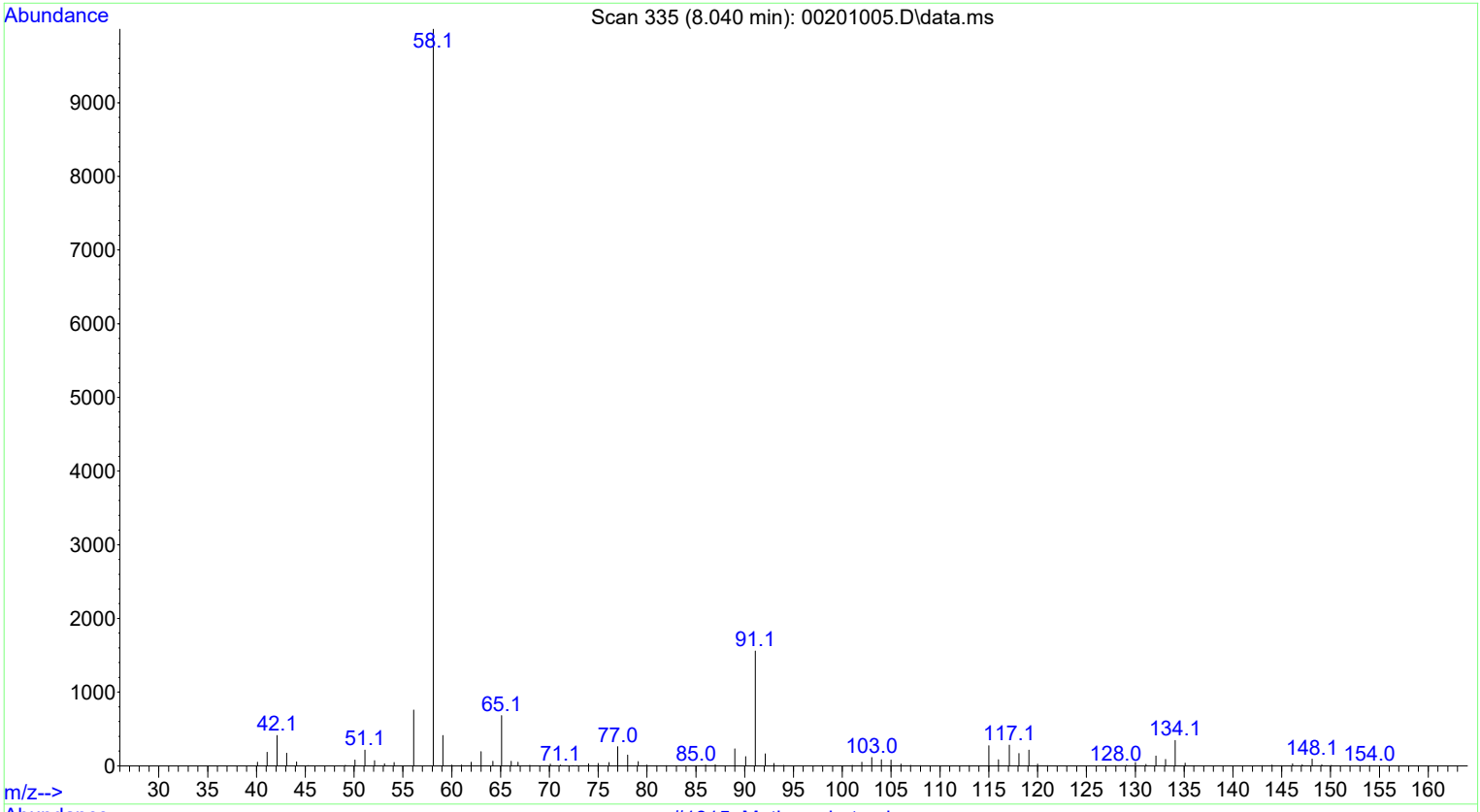
[X] **Tune:** DS **02/03/2025 - HES Autotune**

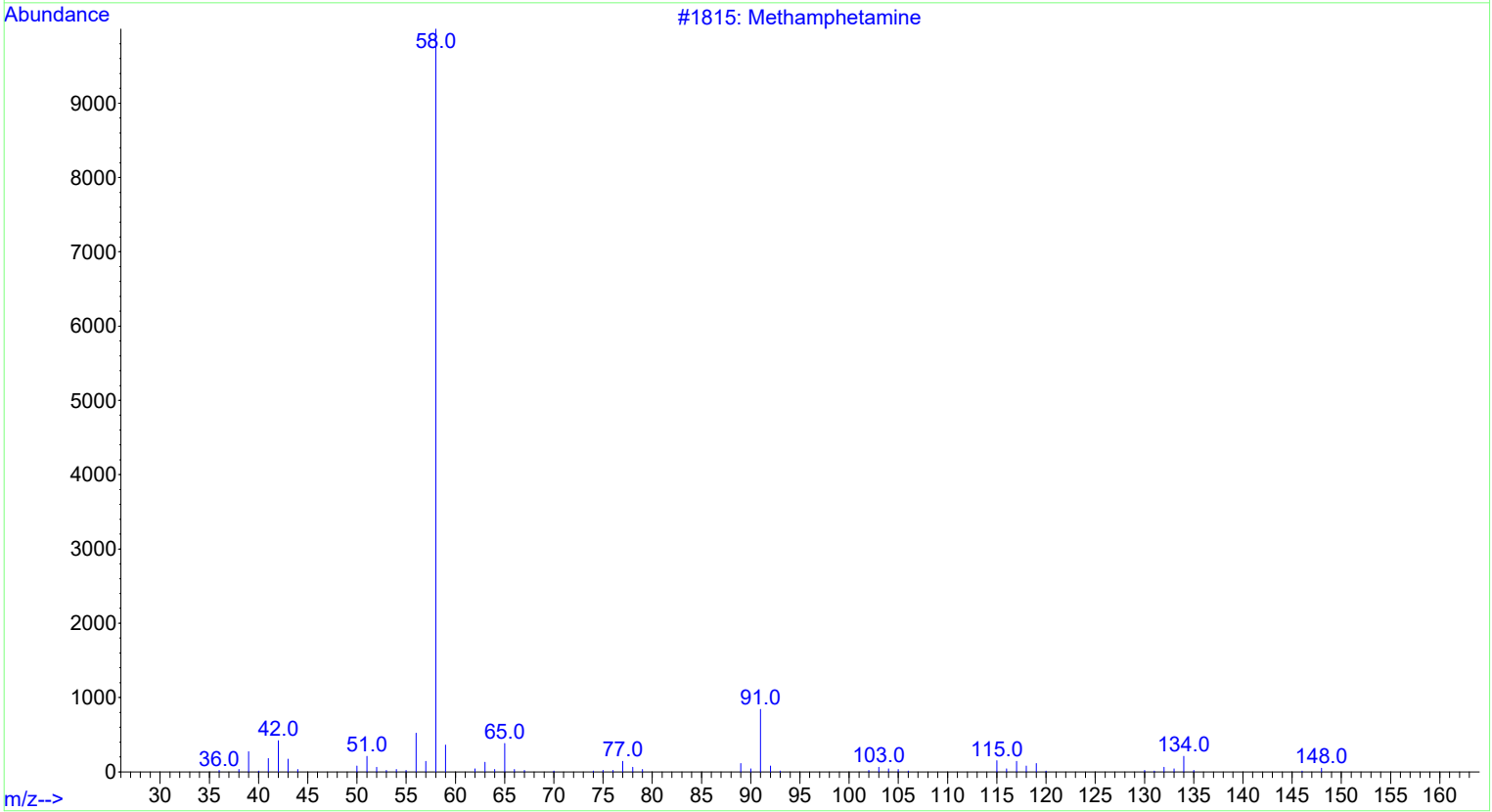
Standard	Standard #	Method	Retention Time	1% Window	
Methamphetamine	R-24-060	DrugTest35MS	8.044	7.963	8.124
Cocaine	R-24-060	DrugTest35MS	14.693	14.546	14.839
Heroin	R-24-060	DrugTest35MS	16.437	16.272	16.601
Fentanyl	R-24-060	DrugTest35MS	16.513	16.347	16.678
Alprazolam	R-24-060	DrugTest35MS	18.845	18.656	19.033

File :D:\MassHunter\GCMS\1\GCMS 4 data\Standards\Weekly Check Mix\
... 2025 Data\020325\00201005.D
Acquired : 03 Feb 2025 10:37 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

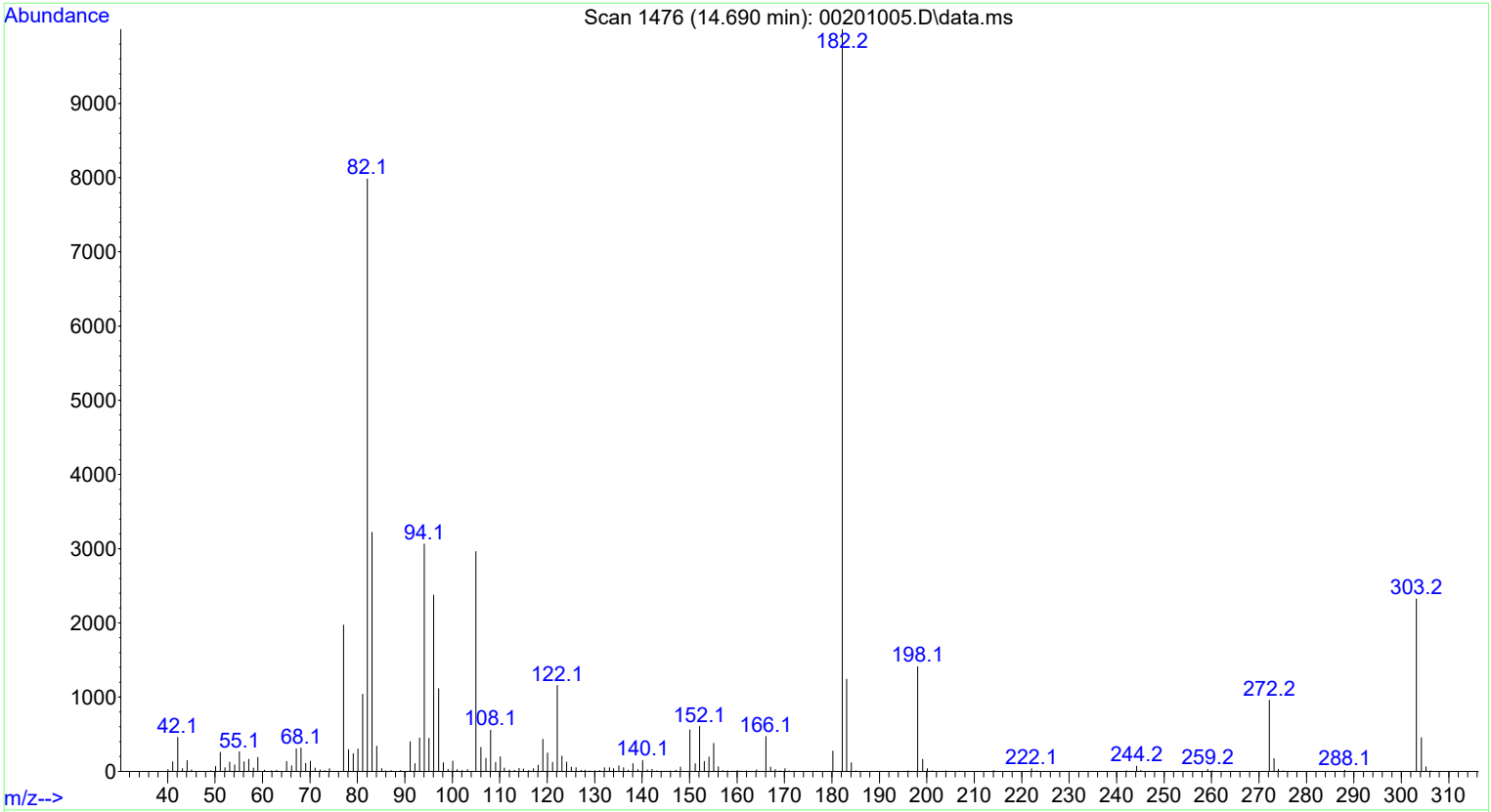


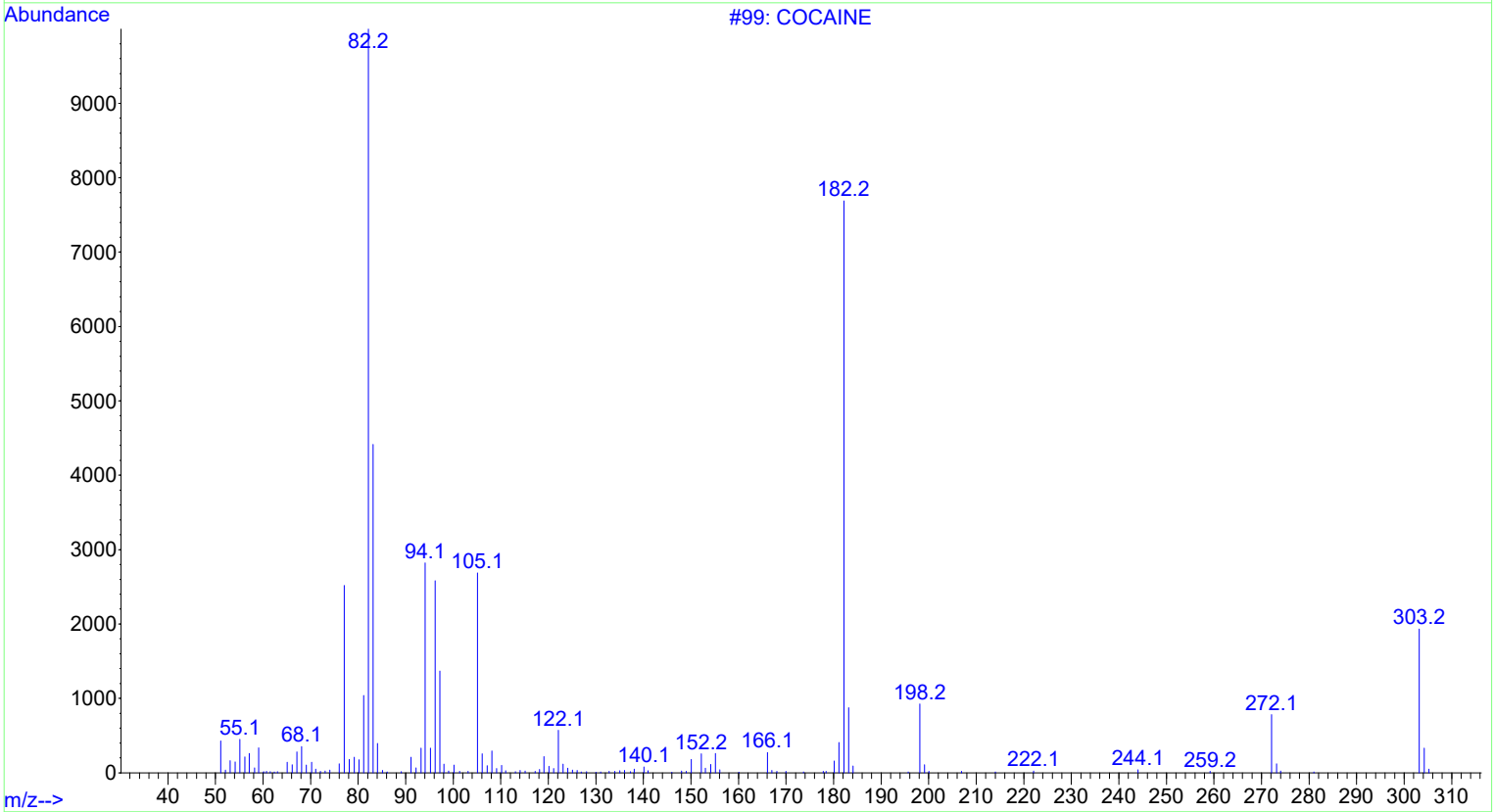
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Acquired : 03 Feb 2025 10:37 using AcqMethod DrugTest35MS.M
Instrument : GCMS #4
Sample Name: Cayman GC/MS mix 3 (R-24-060) 000002669
Misc Info : in ACN 000002669
Vial Number: 2



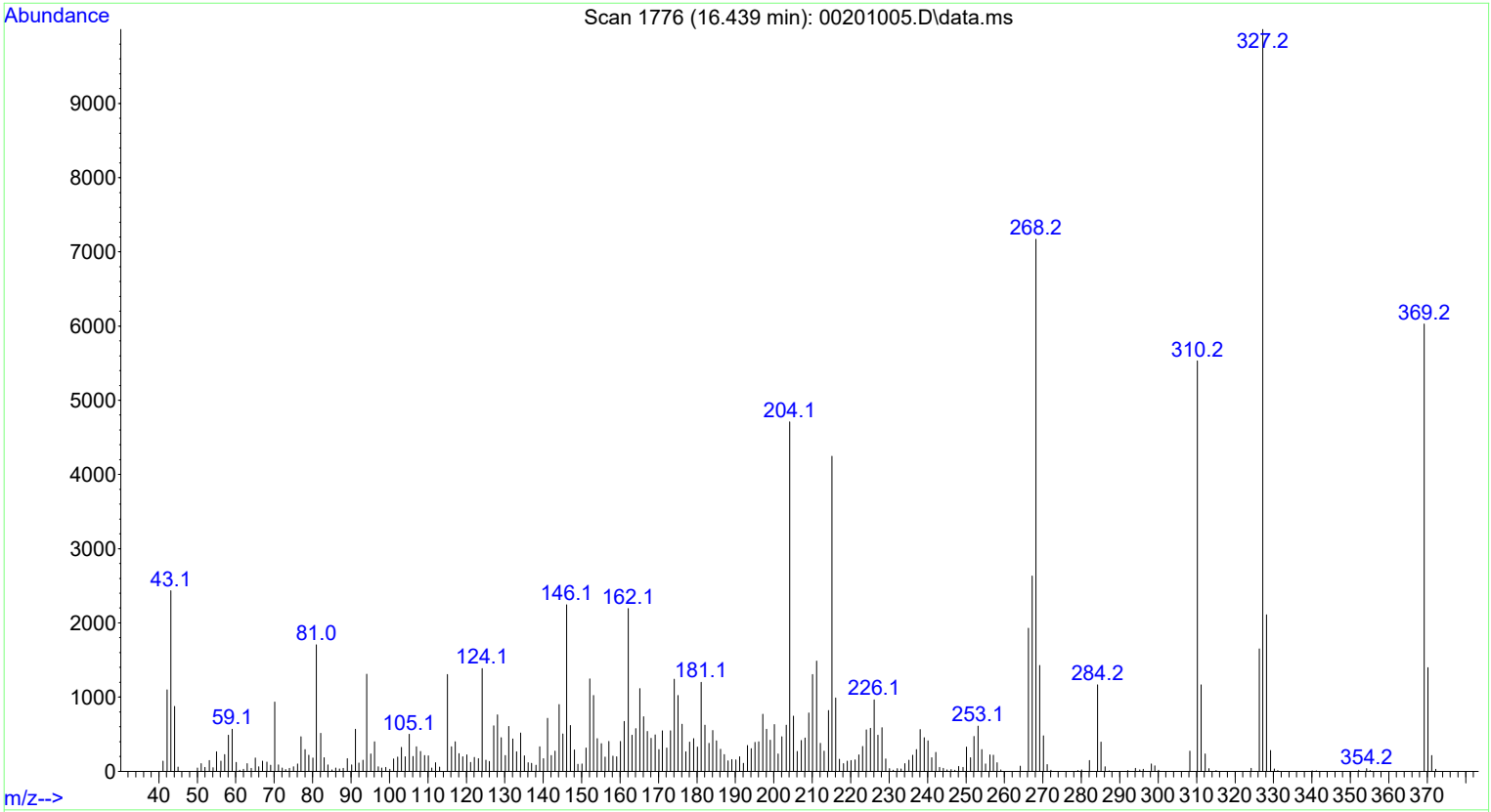


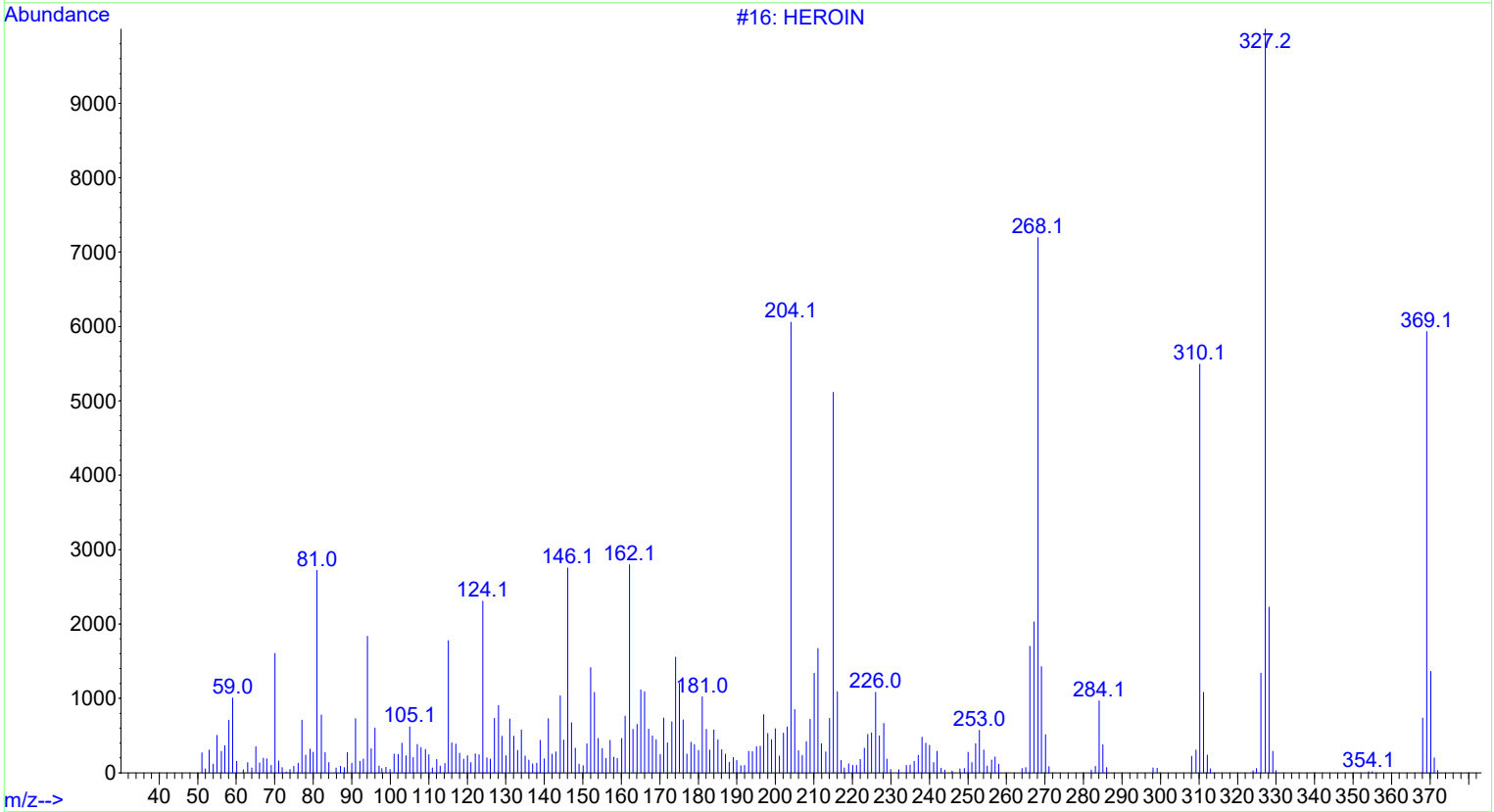
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Acquired : 03 Feb 2025 10:37 using AcqMethod DrugTest35MS.M
Instrument : GCMS #4
Sample Name: Cayman GC/MS mix 3 (R-24-060) 000002669
Misc Info : in ACN 000002669
Vial Number: 2



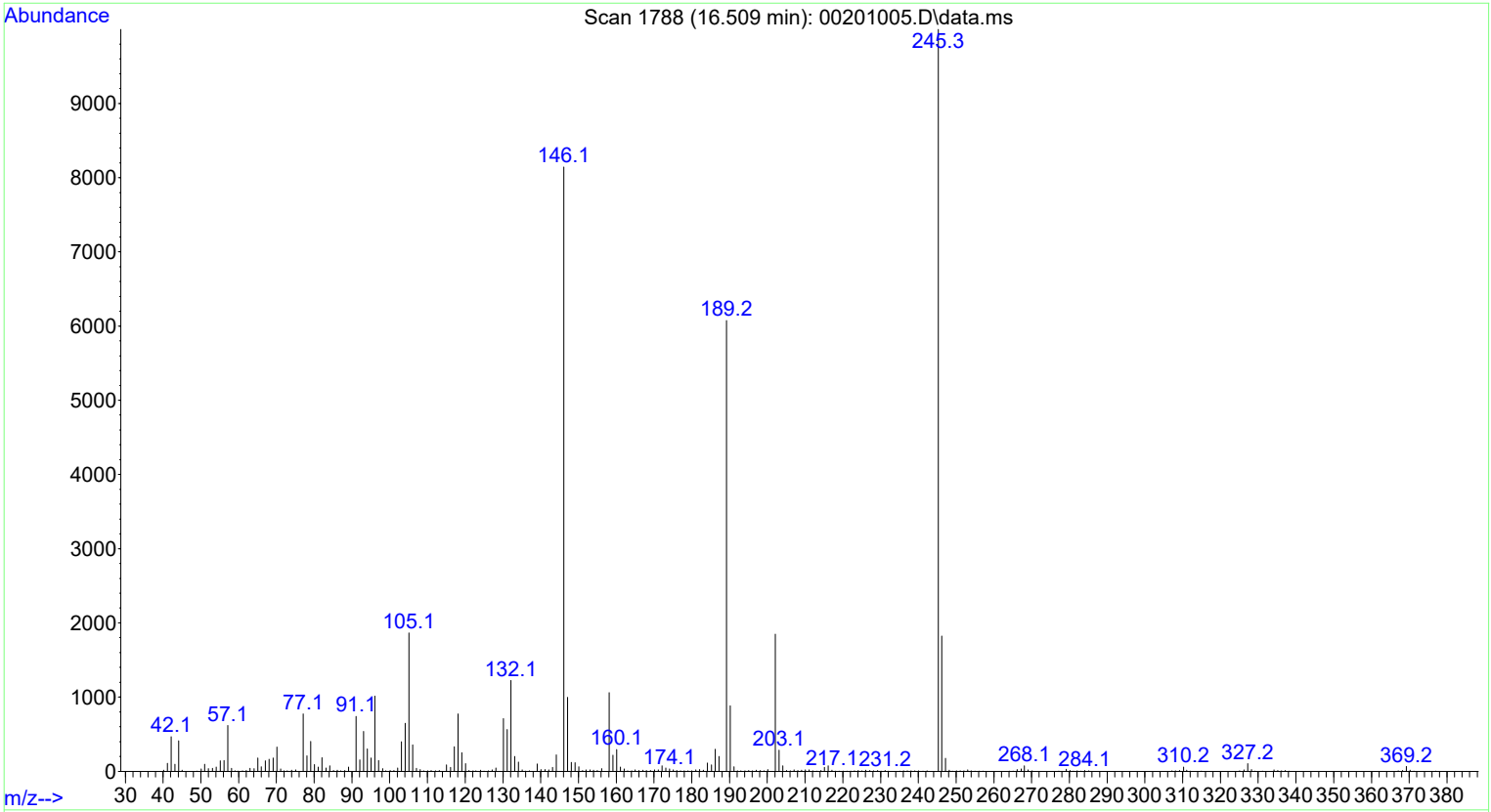


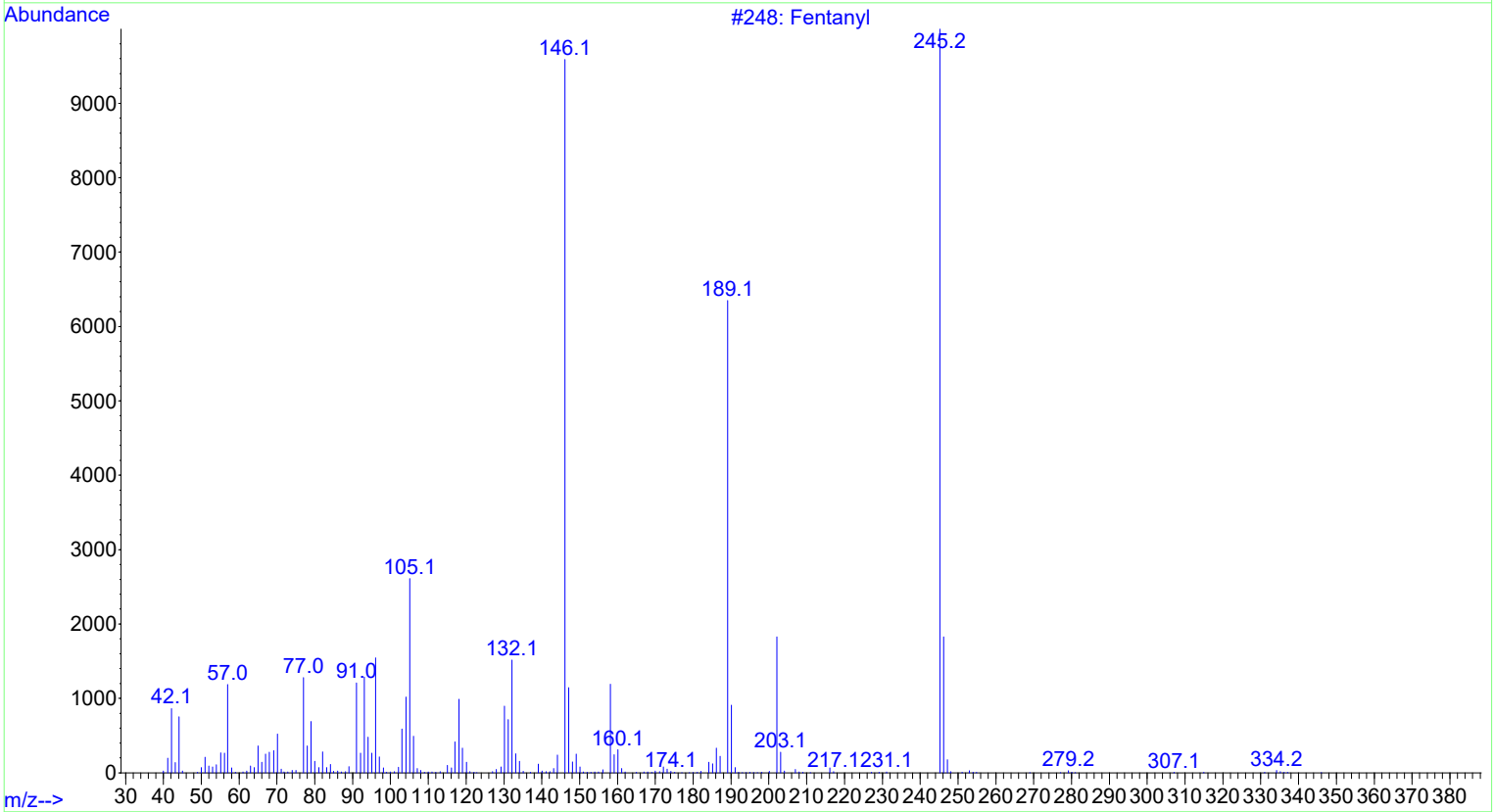
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... 2025 Data\020325\00201005.D
Acquired : 03 Feb 2025 10:37 using AcqMethod DrugTest35MS.M
Instrument : GCMS #4
Sample Name: Cayman GC/MS mix 3 (R-24-060) 000002669
Misc Info : in ACN 000002669
Vial Number: 2



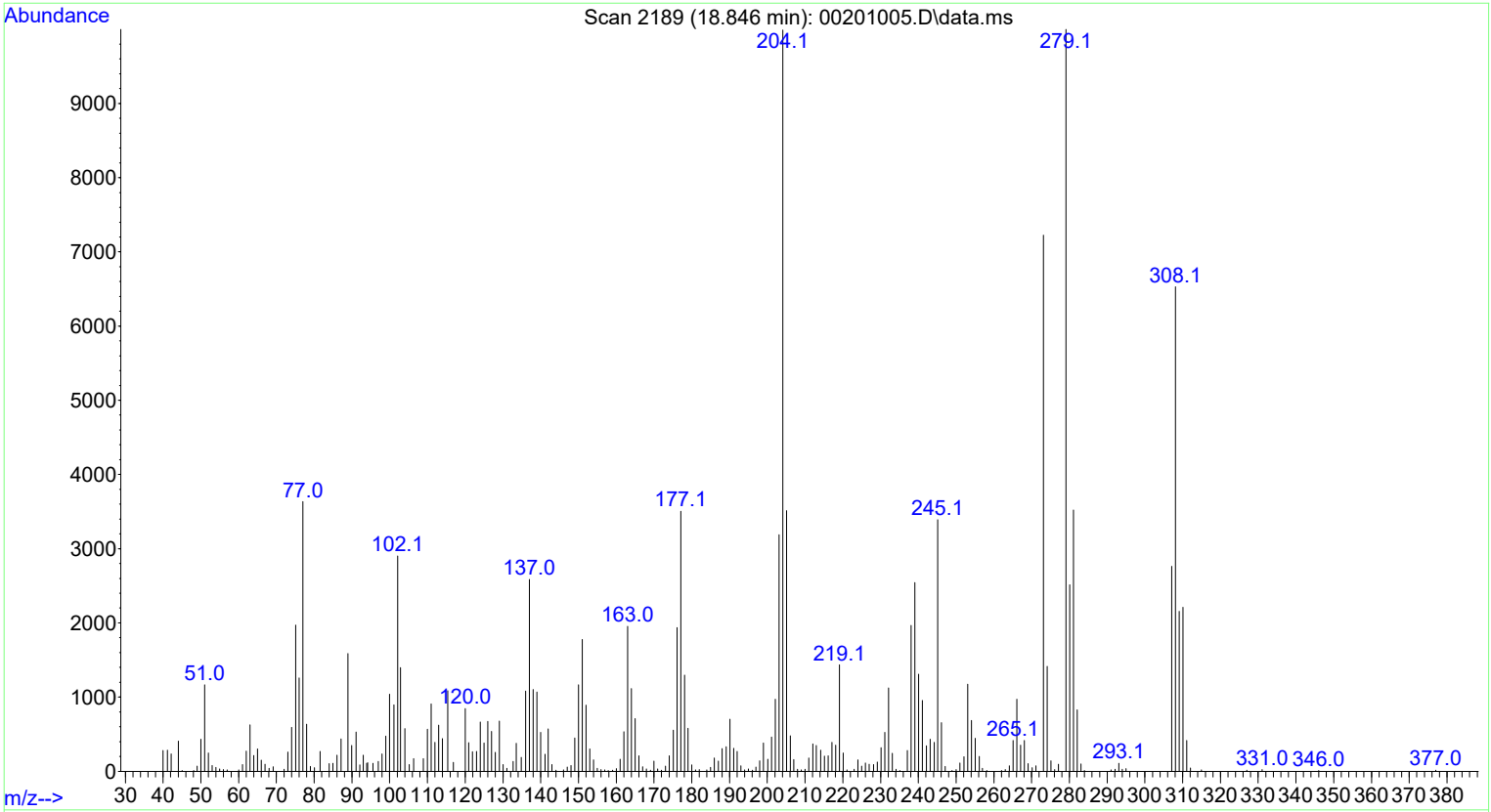


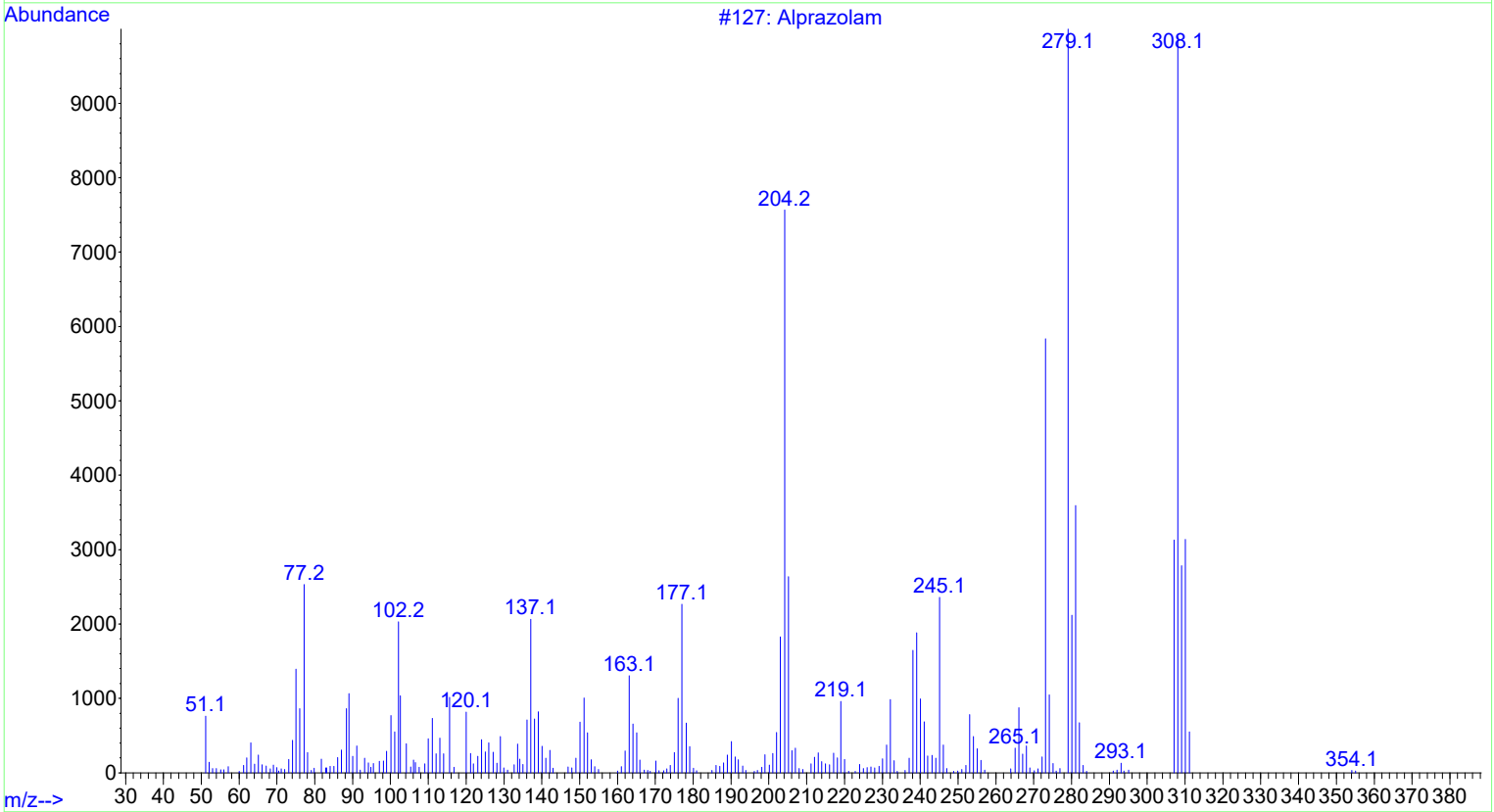
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... 2025 Data\020325\00201005.D
Acquired : 03 Feb 2025 10:37 using AcqMethod DrugTest35MS.M
Instrument : GCMS #4
Sample Name: Cayman GC/MS mix 3 (R-24-060) 000002669
Misc Info : in ACN 000002669
Vial Number: 2



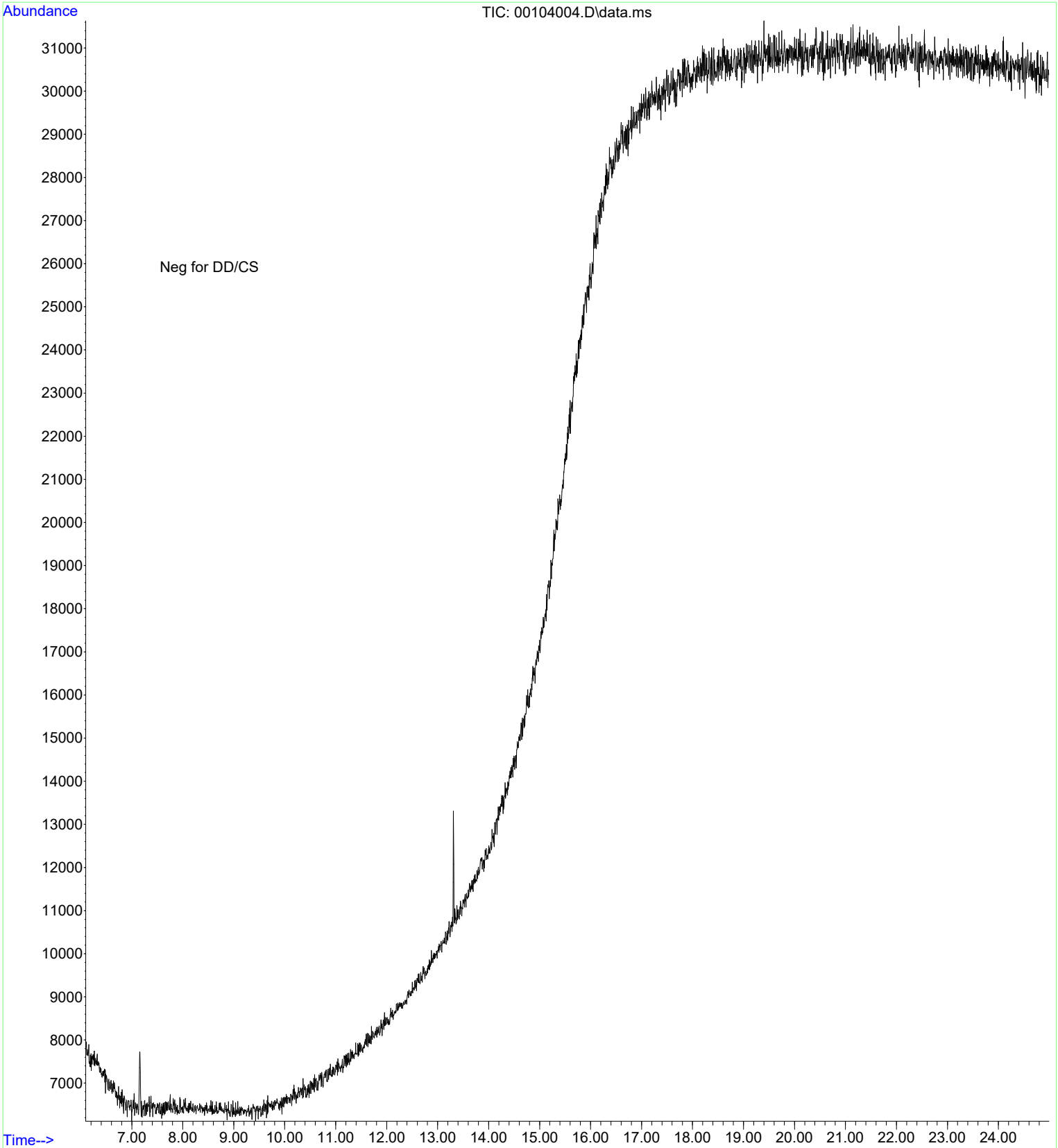


File :D:\MassHunter\GCMS\1\GCMS 4 data\Standards\Weekly Check Mix\
... 2025 Data\020325\00201005.D
Acquired : 03 Feb 2025 10:37 using AcqMethod DrugTest35MS.M
Instrument : GCMS #4
Sample Name: Cayman GC/MS mix 3 (R-24-060) 000002669
Misc Info : in ACN 000002669
Vial Number: 2

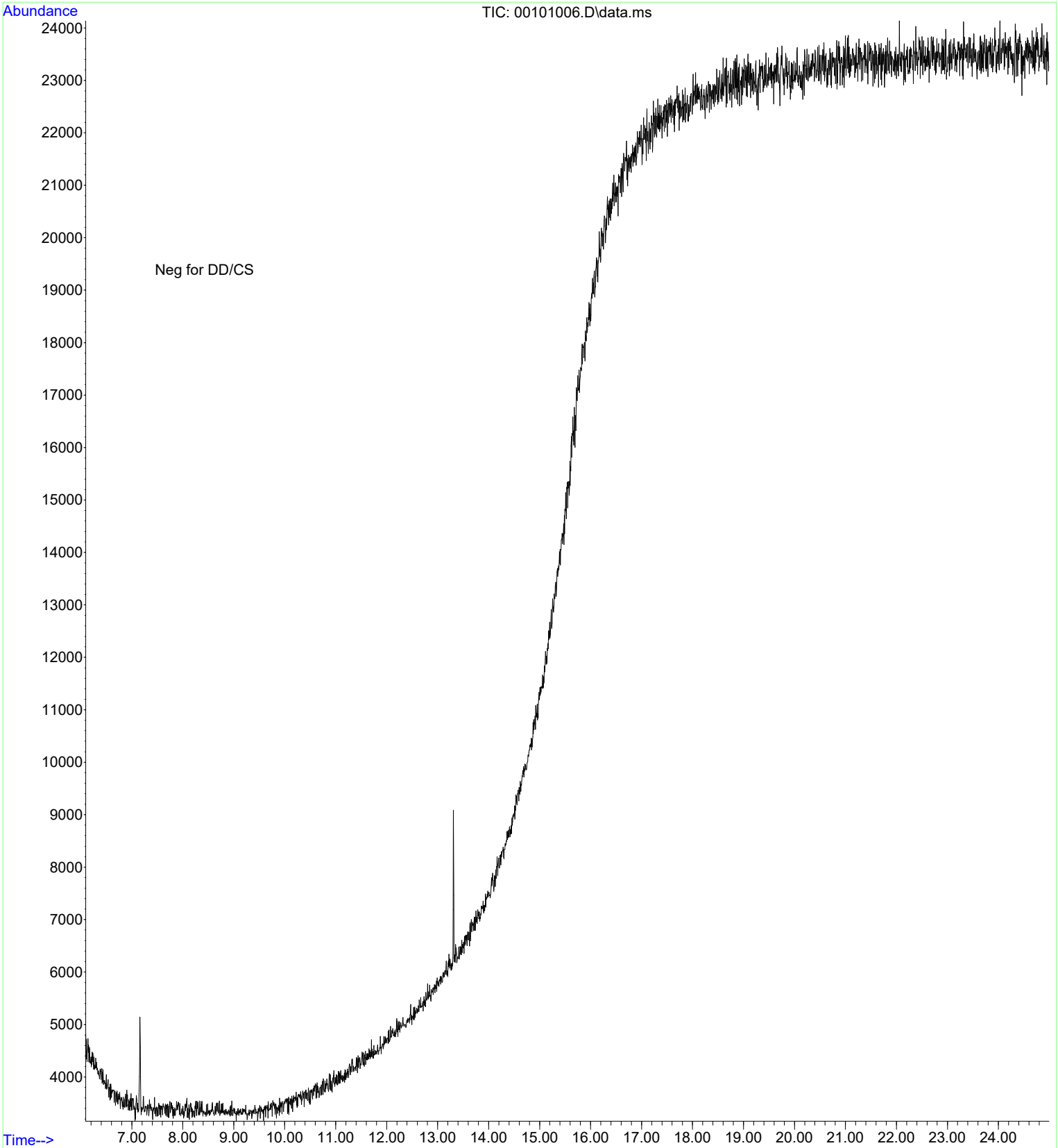




File :D:\MassHunter\GCMS\1\GCMS 4 data\Standards\Weekly Check Mix\
... 2025 Data\020325\00104004.D
Acquired : 03 Feb 2025 10:08 using AcqMethod DrugTest35MS.M
Instrument : GCMS #4
Sample Name: BLANK (C-19-0068) prior to Cayman GC/MS mix 3 (R-24-060) 000002668
Misc Info : ACN 000002668
Vial Number: 1



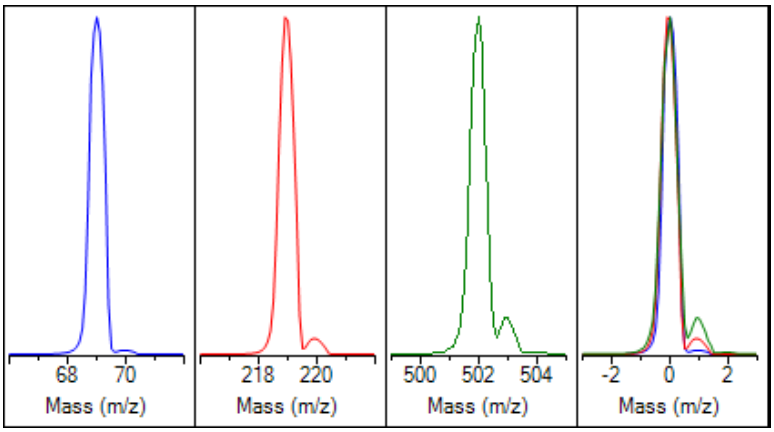
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... 2025 Data\020325\00101006.D
Acquired : 03 Feb 2025 11:06 using AcqMethod DrugTest35MS.M
Instrument : GCMS #4
Sample Name: Blank (C-19-0068) - Instrument ready 000002668
Misc Info : ACN 000002668
Vial Number: 1



High Efficiency Source Autotune - 5977

Tune timestamp: 2/6/2025 10:48 AM (UTC-06:00) GCMS #4

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



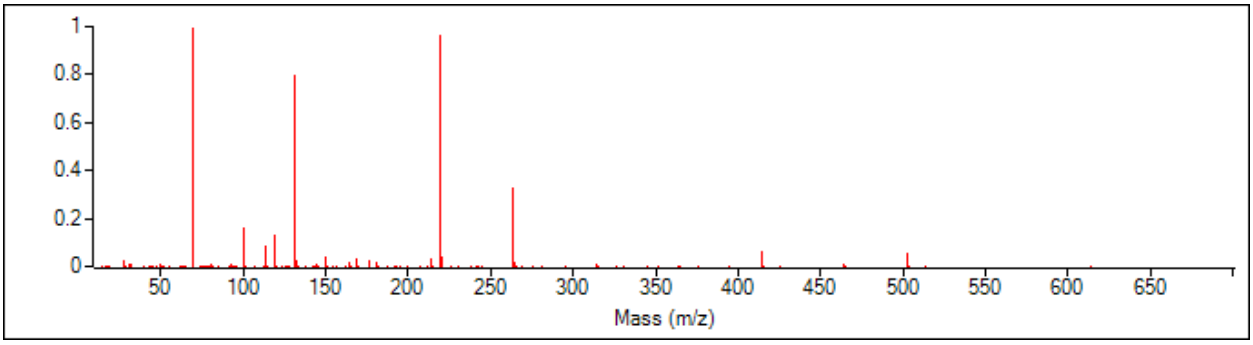
Ion Polarity	Pos	PFTBA	Open
Emission	100.0	Mass Gain	93
Electron Energy	70.0	Mass Offset	-28
Filament	1	Amu Gain	2430
Repeller	11.50	Amu Offset	136.88
Ion Focus	149.6	Width219	0.001
Entrance Lens	10.1	DC Polarity	Pos
Ent Lens Offset	14.94	HED Enable	On
Ion Body	5.25	EM Volts	2178.7
Post Extractor 1	16	Extractor Lens	13.80
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	479,629	100.0%	0.60
218.90	461,075	96.1%	0.62
502.00	31,353	6.5%	0.63

Temperatures and Pressures

MS Source	230	Turbo Speed	100.0
MS Quad	150	Hi Vac	7.40e-06

Low	High	Step	Speed	Threshold	Peaks	Base	Abundance	Total Ion
10.00	701.00	0.10	3	100	118	69.00	456,512	1,855,562



Target m/z	Actual m/z	Abund	Rel Abund	Iso m/z	Iso Abund	Iso Ratio
69.00	69.00	456,512	100.0%	70.00	5,379	1.2%
219.00	219.00	439,360	96.2%	220.00	20,080	4.6%
502.00	502.10	27,096	5.9%	503.00	2,940	10.9%

Air/Water Check: H20 ~0.2% N2 ~2.9% O2 ~0.8% CO2 ~0.2% N2/H20 ~1842.5%

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 9772.985

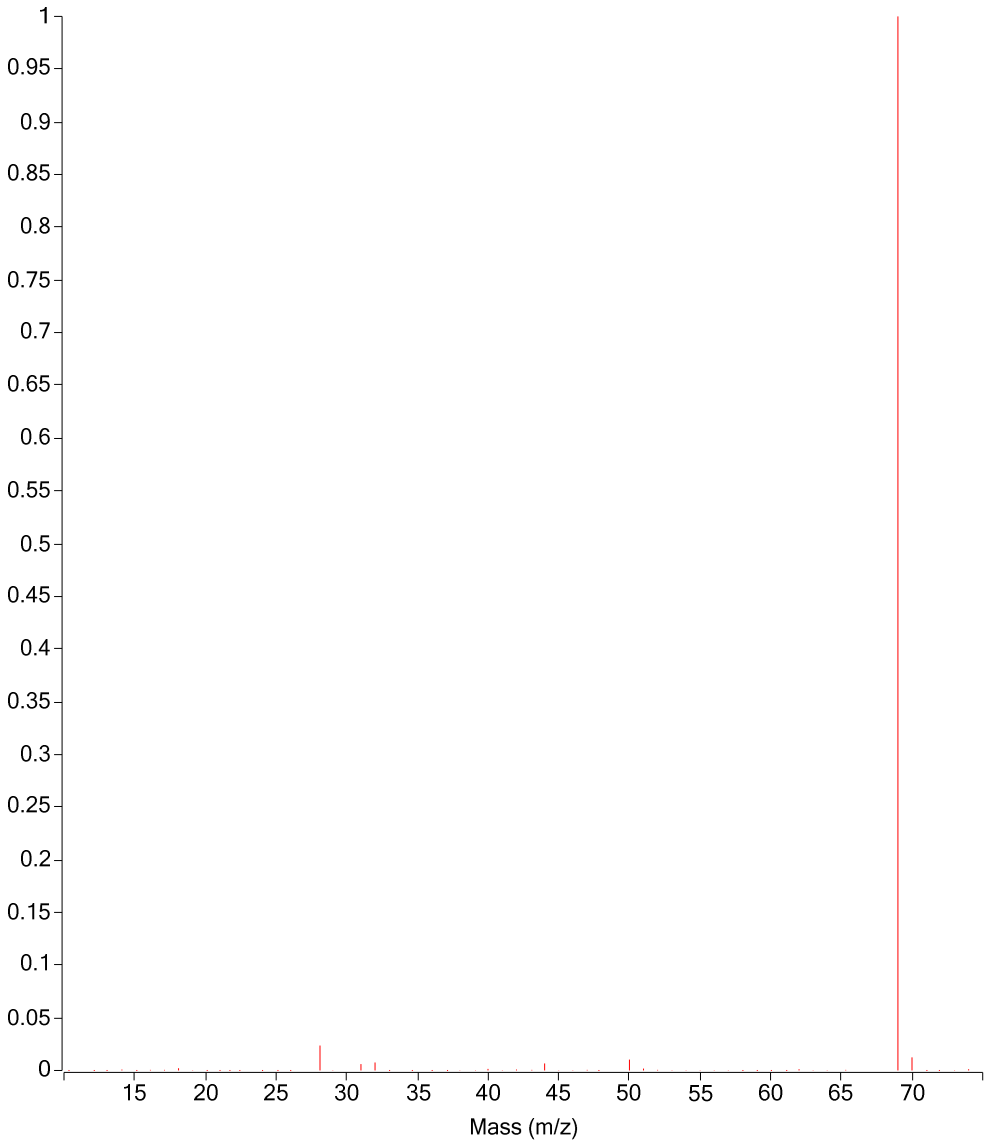
Repeller maximum 35 volts using ion 219; Gain Factor 0.0977

Mass Gain Values(Scan Speed): 102(3) 98(2) 116(1) 134(0) 186(FS1) 186(FS2) 142(FS3)

TARGET MASS:	50	69	131	219	414	502	1050
Amu Offset	136.9	136.9	136.9	136.9	136.9	136.9	136.9
Entrance Lens Offset	14.9	14.9	14.9	14.9	14.9	14.9	14.9

597x Air and Water Check

Instrument: GCMS #4
Thu Feb 06 10:39:13 2025 D:\MassHunter\GCMS\1\5977\



Current Params used: HES_Atune.u

Relative abundances:

18/69 =	0.21	Water%	(counts=1590)
28/69 =	2.38	Nitrogen%	(counts=17944)
32/69 =	0.77	Oxygen%	(counts=5772)
44/69 =	0.67	Carbon Dioxide%	(counts=5037)
28/18 =	1128.55	Nitrogen/Water%	

Instrument Name : GCMS #4
DC Polarity : Positive
Filament 1
Current Vacuum status :High Vacuum: 5.62E-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	502.04	OK
Position of isotope mass 70	70.00	OK
Position of isotope mass 220	220.00	OK
Position of isotope mass 503	503.07	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%)	4.63	OK
Ratio of mass 503 to mass 502(7.9 - 12.3%)	10.07	OK
Ratio of 219 to 69 should be > 40% and is	94.62	OK
Ratio of 502 to 69 should be > 2.4% and is	6.23	OK
Mass 69 Precursor (<= 3%)	0.62	OK
Mass 219 Precursor (<= 6%)	1.24	OK
Mass 502 Precursor (<= 12%)	2.42	OK

597x Air and Water Check
Thu Feb 06 10:54:09 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%)	0.15	OK
Ratio of 28 to 69 (<10%)	2.87	OK
Electron Multiplier Voltage	2179	OK

Tune portion of System Verification passed.

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

02/06/2025 - 02/09/2025

[X] **Tune:** DS **02/06/2025 - HES Autotune**

Standard	Standard #	Method	Retention Time	1% Window	
Methamphetamine	R-24-060	DrugTest35MS	8.045	7.964	8.125
Cocaine	R-24-060	DrugTest35MS	14.694	14.547	14.840
Heroin	R-24-060	DrugTest35MS	16.436	16.271	16.600
Fentanyl	R-24-060	DrugTest35MS	16.513	16.347	16.678
Alprazolam	R-24-060	DrugTest35MS	18.843	18.654	19.031

Brazoria County Crime Lab Area Percent Report

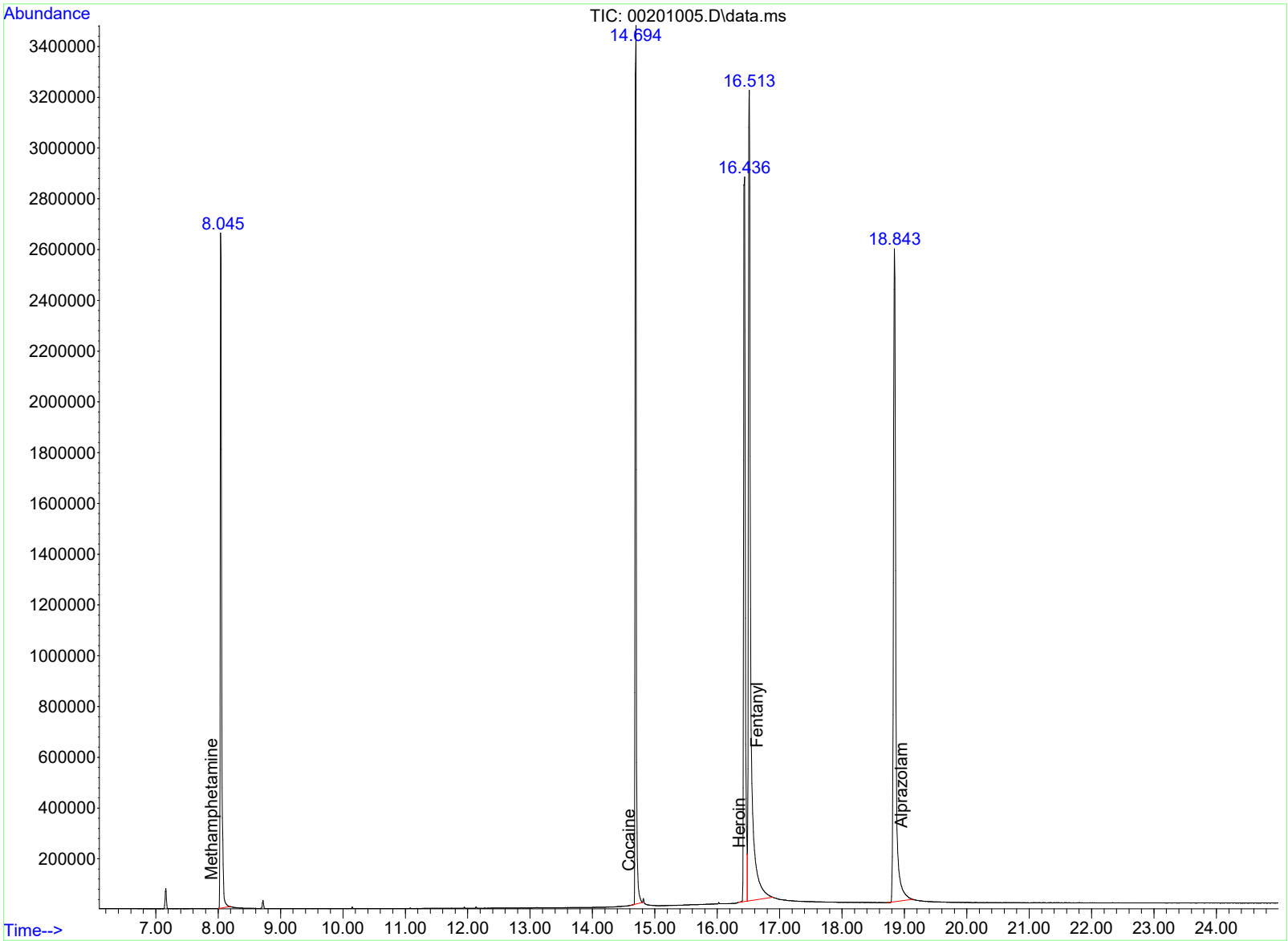
Data File: D:\MassHunter\GCMS\1\GCMS 4 data\Standards\Weekly Check Mix\2025 Data\020625\00201005.D
Method : D:\MassHunter\GCMS\1\methods\DrugTest35MS.M
Operator : AGILENT 4
Acq On : 06 Feb 2025 12:15
Sample : Cayman GC/MS mix 3 (R-24-060)
Misc : in ACN
ALS Vial : 2
ExpBcode : 000002669
ActBcode : 000002669

Signal : TIC: 00201005.D\data.ms

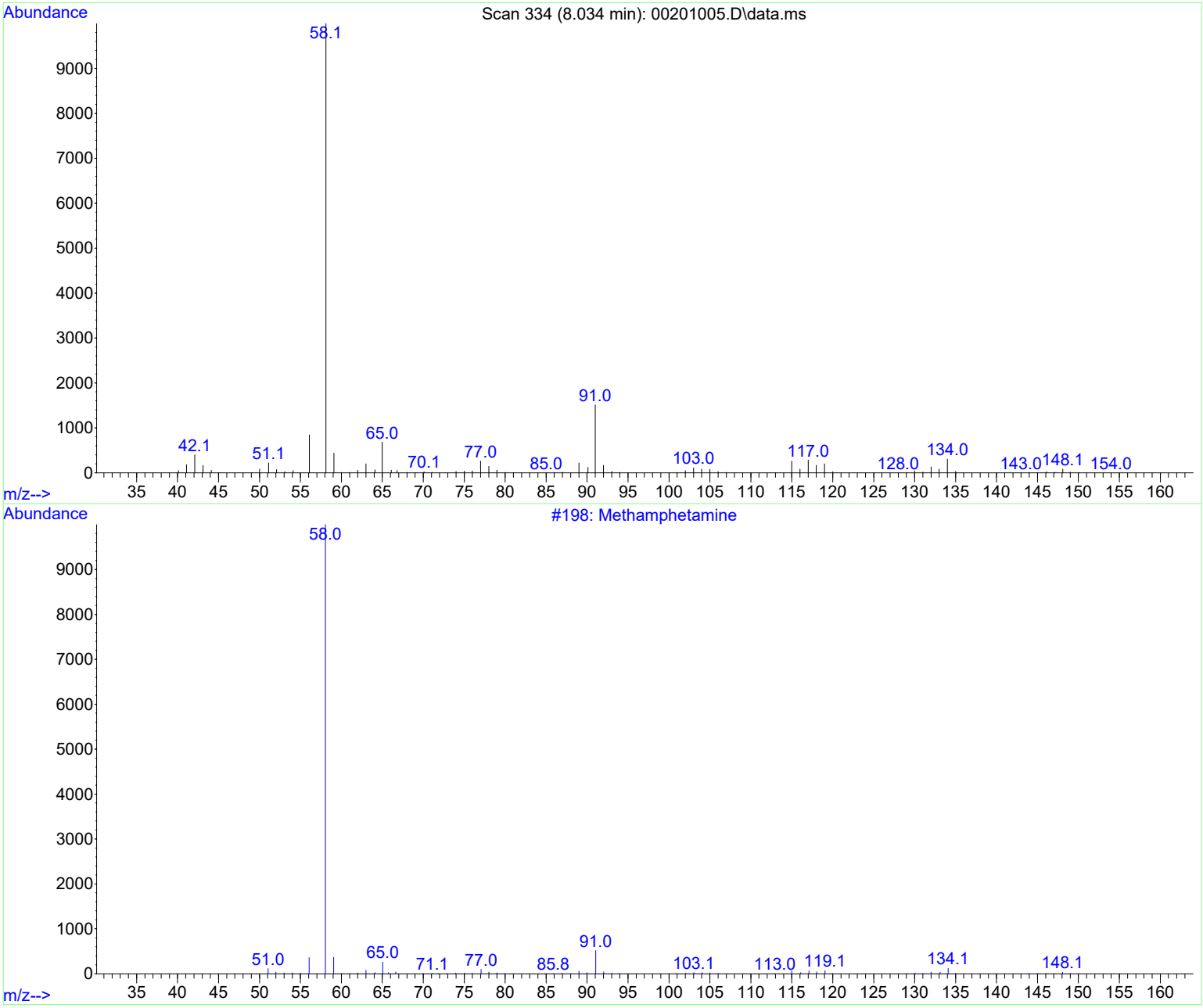
peak #	R.T. min	first scan	max scan	last scan	PK TY	peak height	corr. area	corr. % max.	% of total
1	8.045	329	336	360	BB	2657805	42167255	49.08%	14.076%
2	14.694	1464	1477	1495	BV 2	3373767	49282970	57.36%	16.451%
3	16.436	1760	1776	1783	BV 3	2849612	54953430	63.96%	18.344%
4	16.513	1783	1789	1853	VB 2	3213140	85914697	100.00%	28.680%
5	18.843	2169	2189	2238	BB	2550926	67249255	78.27%	22.449%

Sum of corrected areas: 299567606

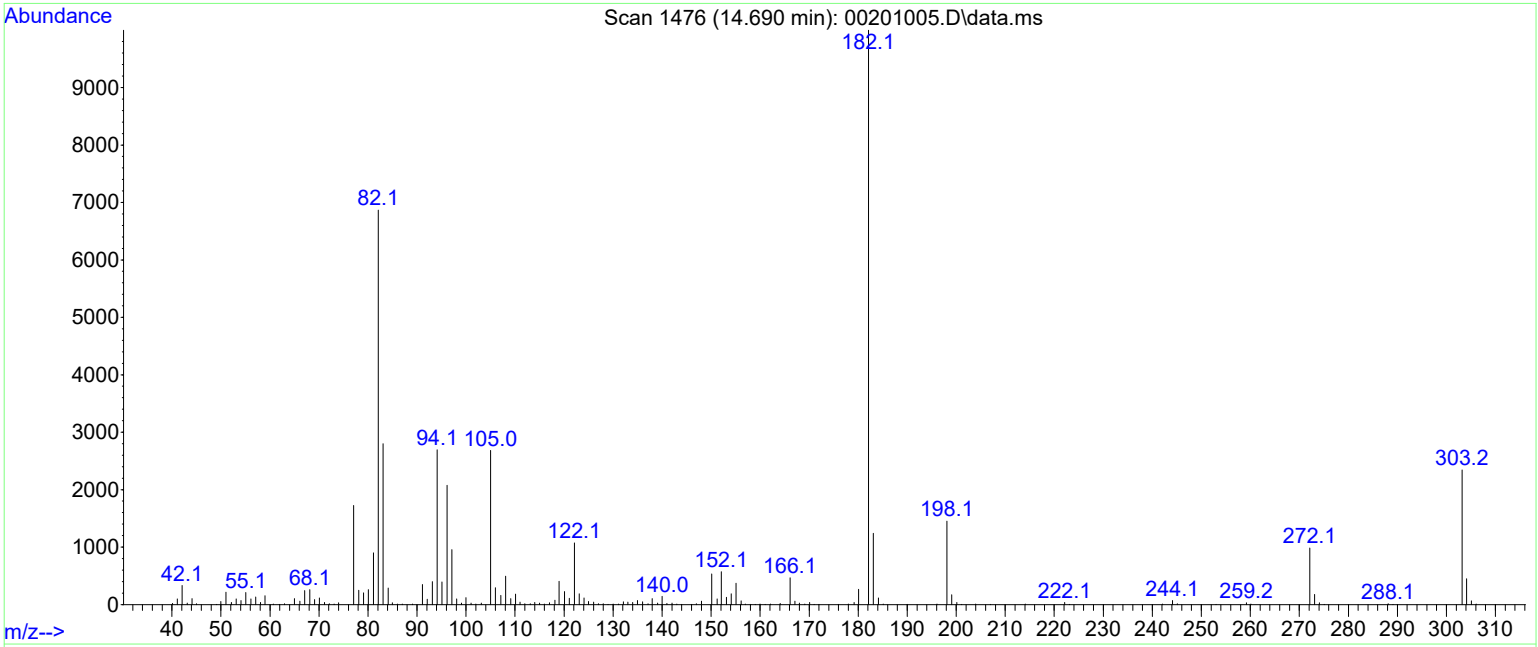
DrugTest35MS.M Thu Feb 06 15:18:01 2025 DRUGS

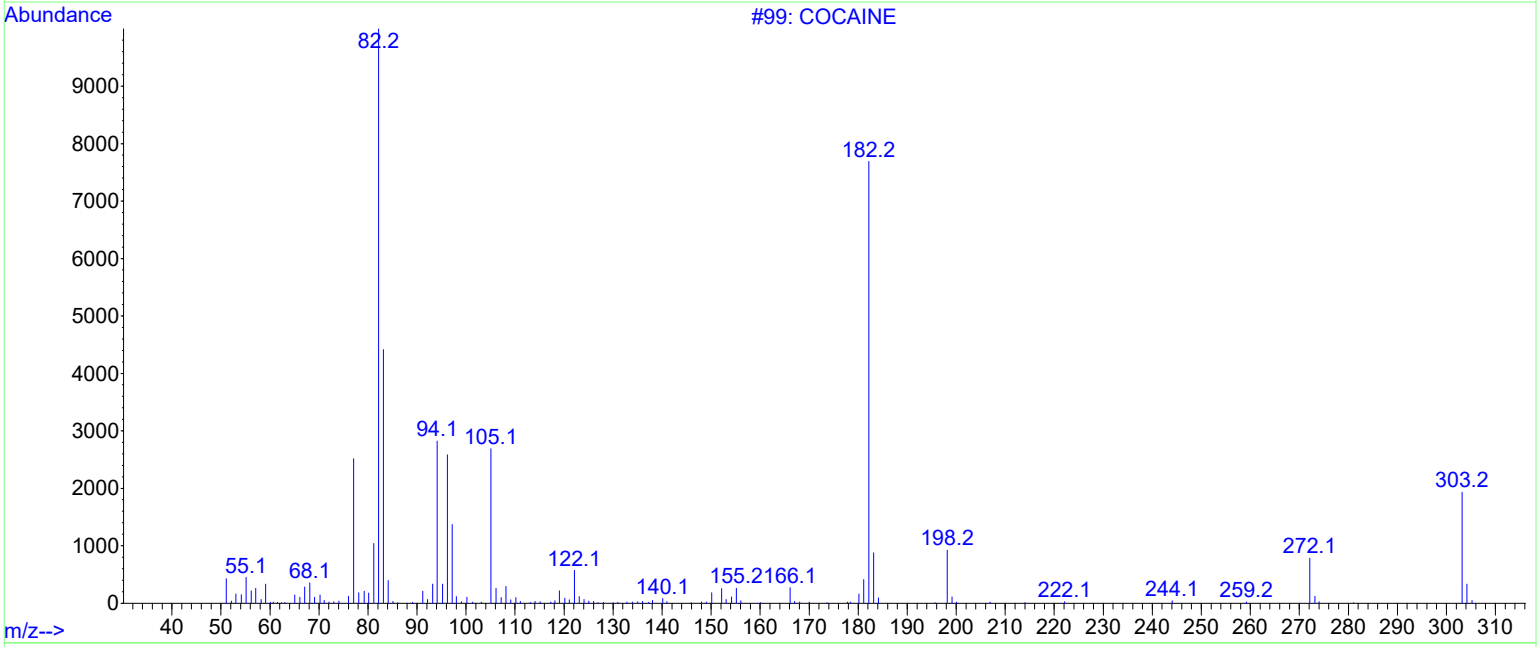


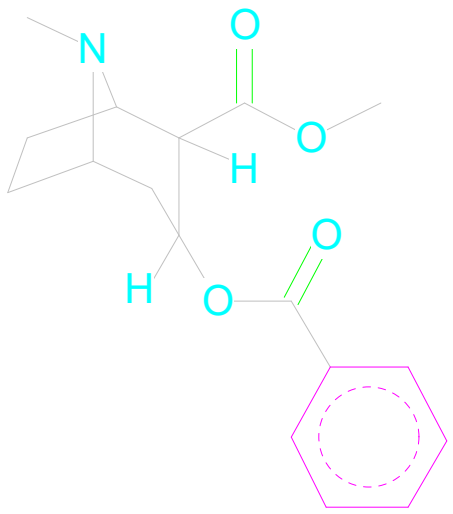
Library Searched : D:\MassHunter\GCMS#4 Library\DRUG.L Sample Name: Cayman GC/MS mix 3 (R-24-060)
Quality : 83
ID : Methamphetamine



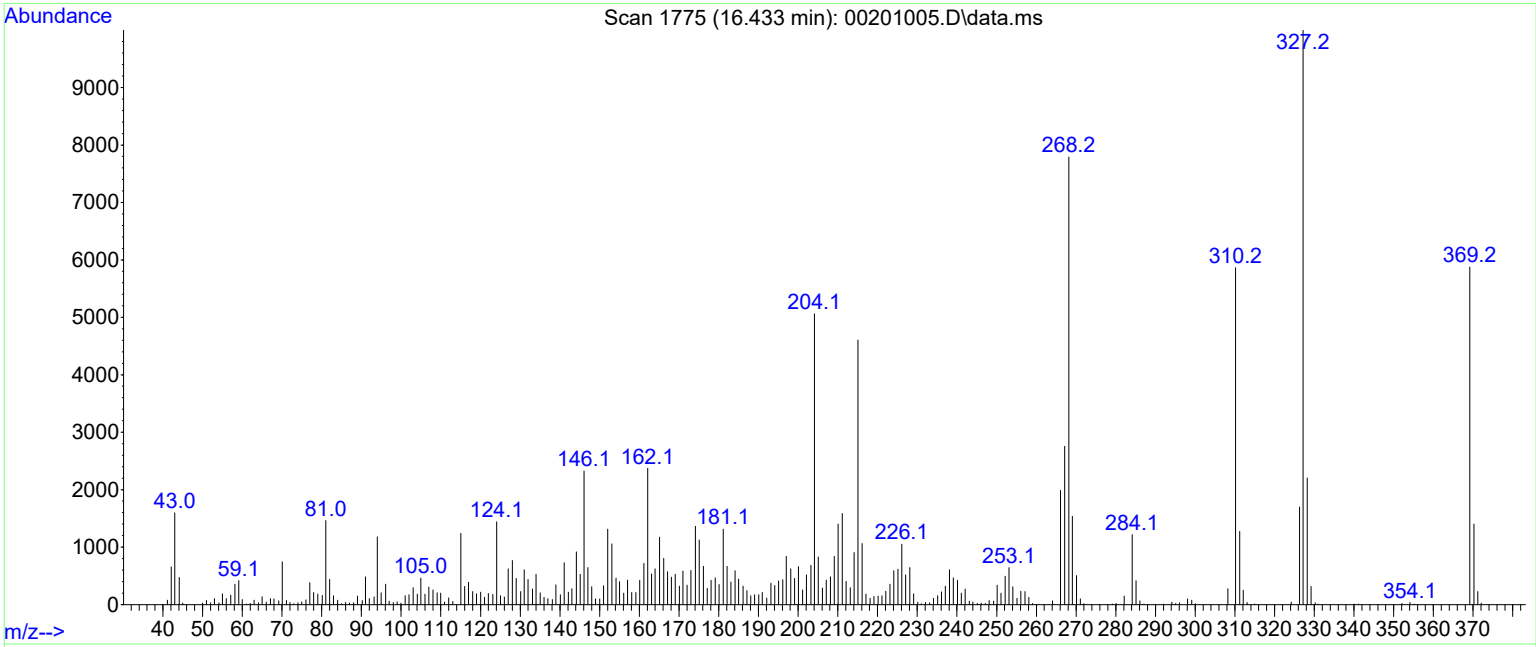
Library Searched : D:\MassHunter\GCMS#4 Library\DRUG.L Sample Name: Cayman GC/MS mix 3 (R-24-060)
Quality : 98
ID : COCAINE

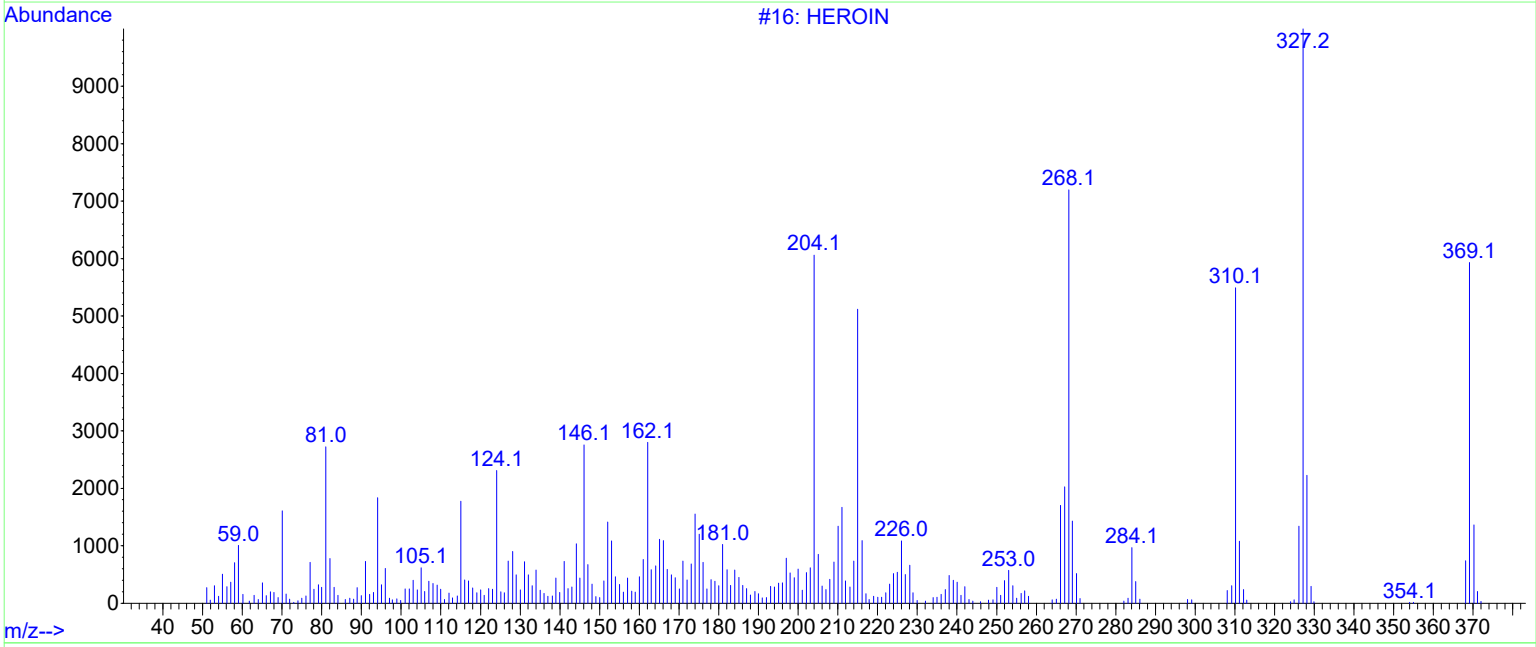


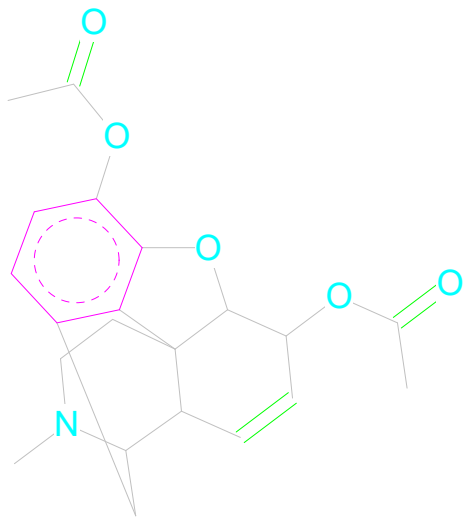




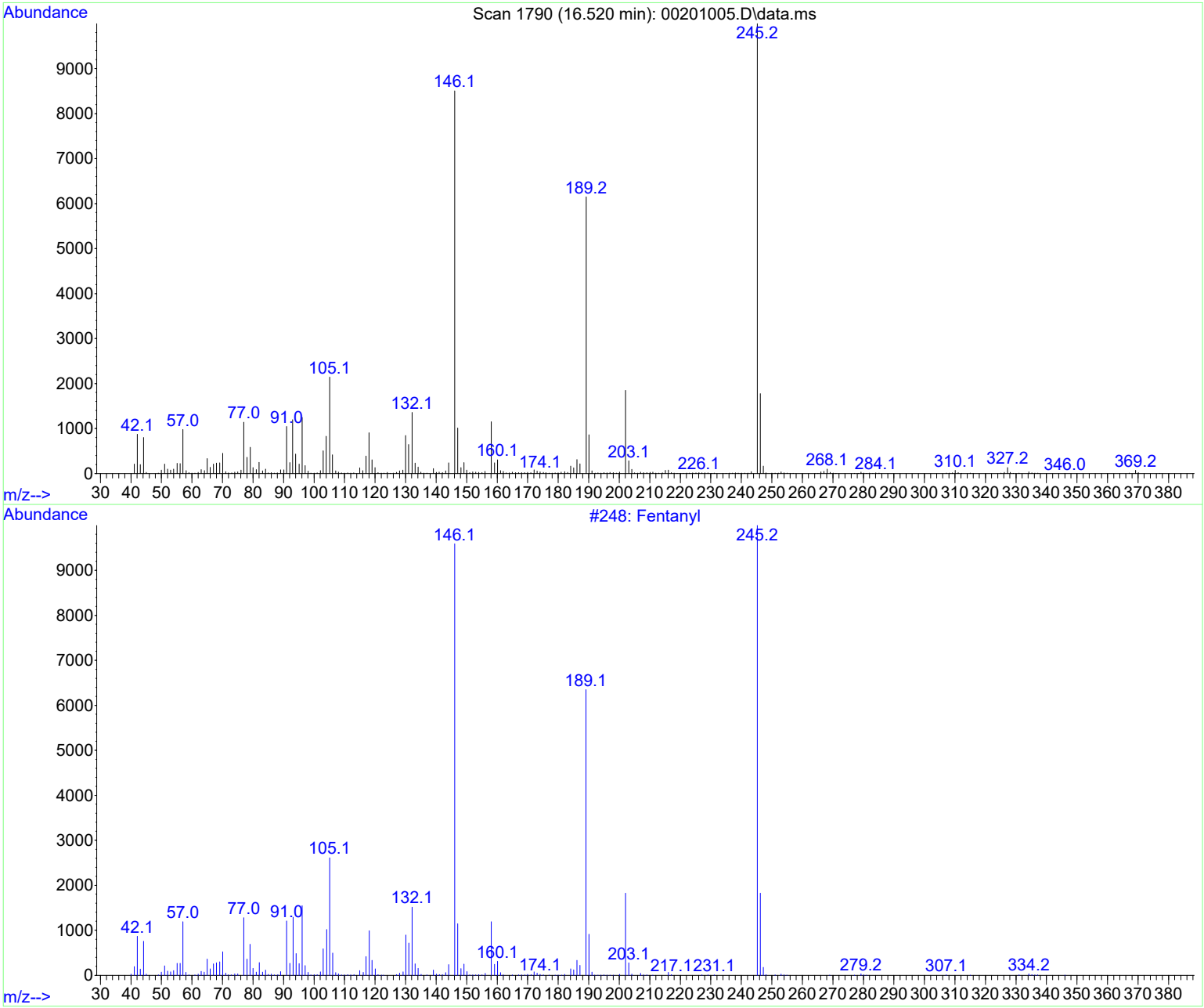
Library Searched : D:\MassHunter\GCMS#4 Library\DRUG.L Sample Name: Cayman GC/MS mix 3 (R-24-060)
Quality : 99
ID : HEROIN



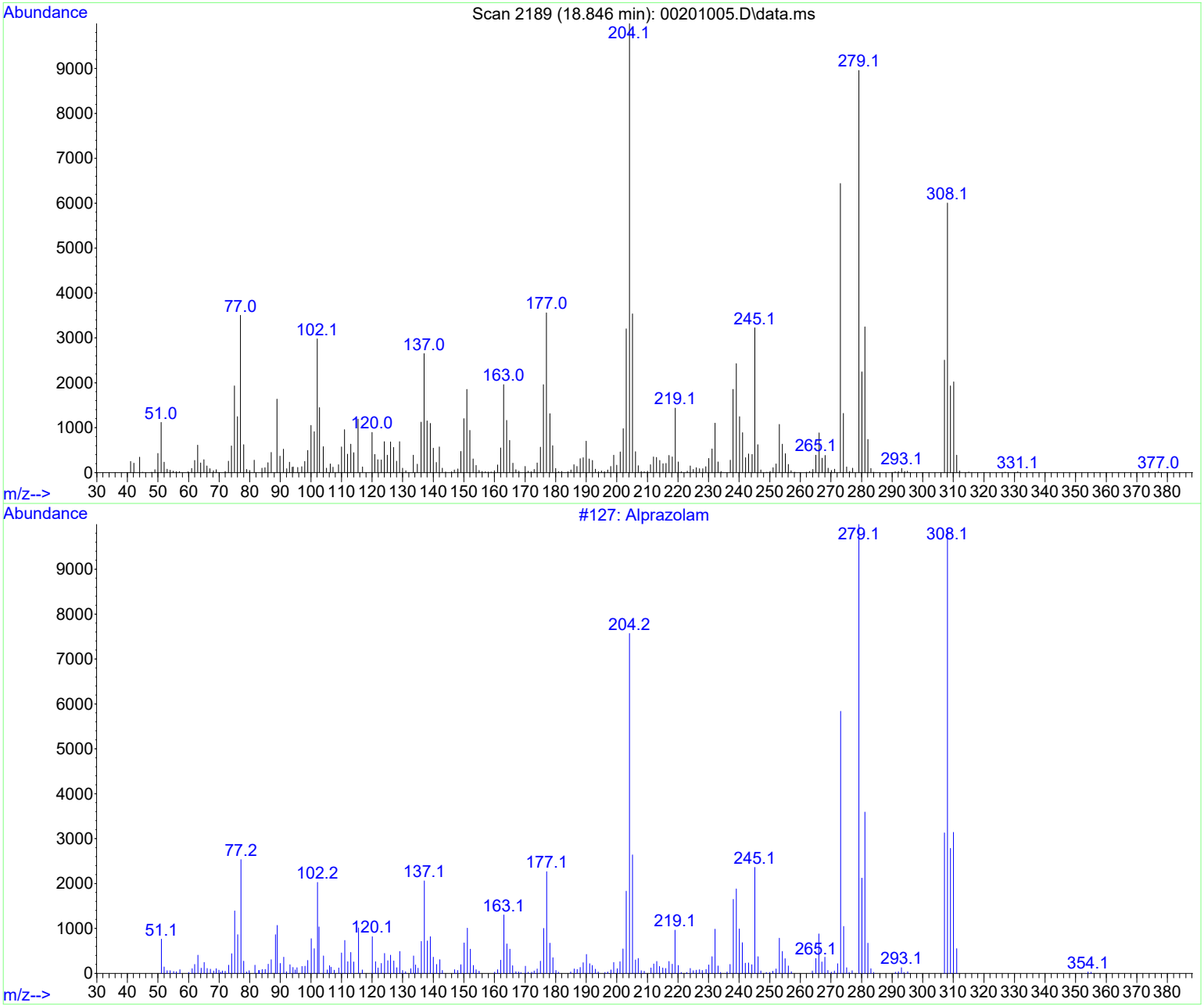




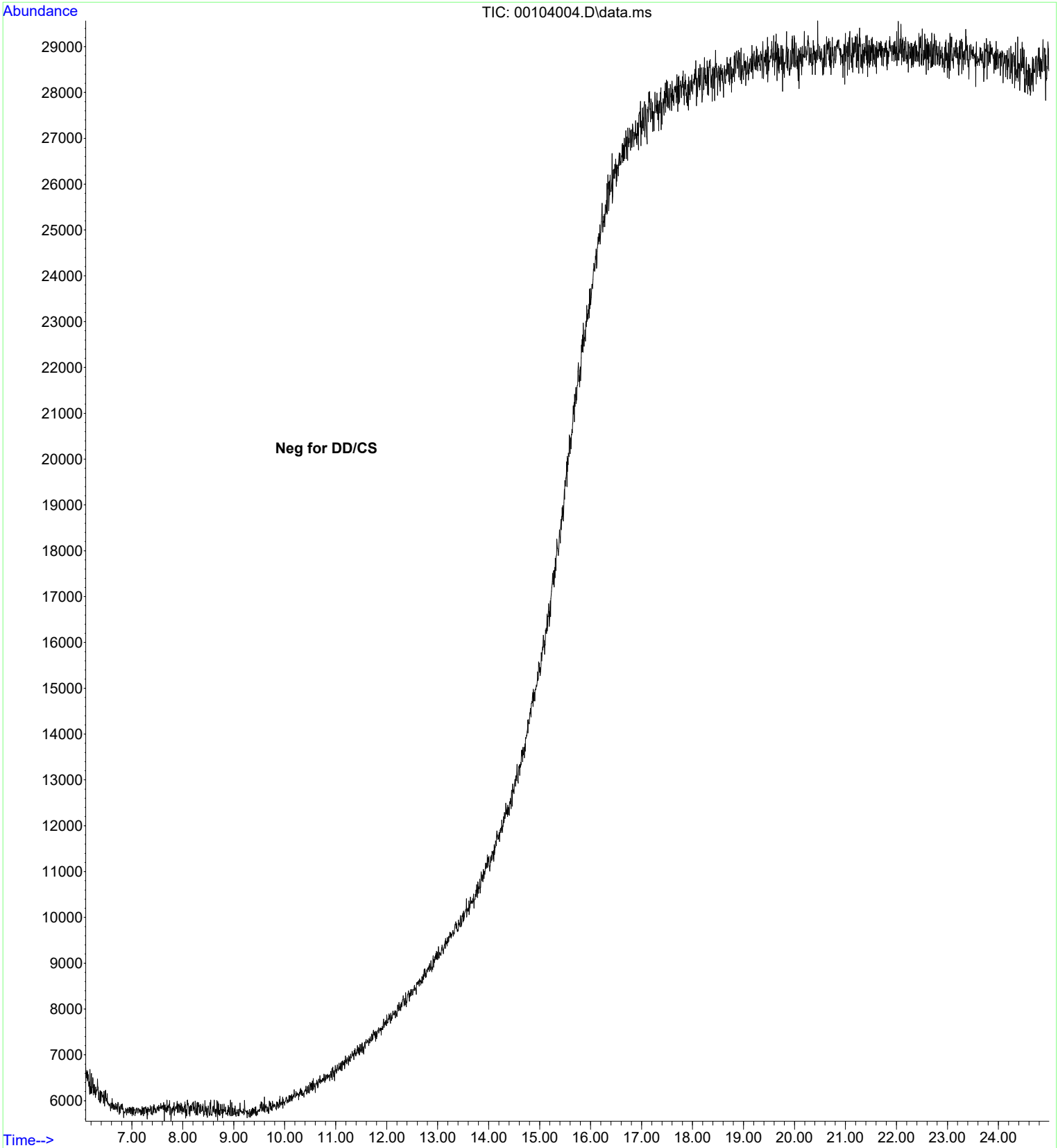
Library Searched : D:\MassHunter\GCMS#4 Library\DRUG.L Sample Name: Cayman GC/MS mix 3 (R-24-060)
Quality : 99
ID : Fentanyl



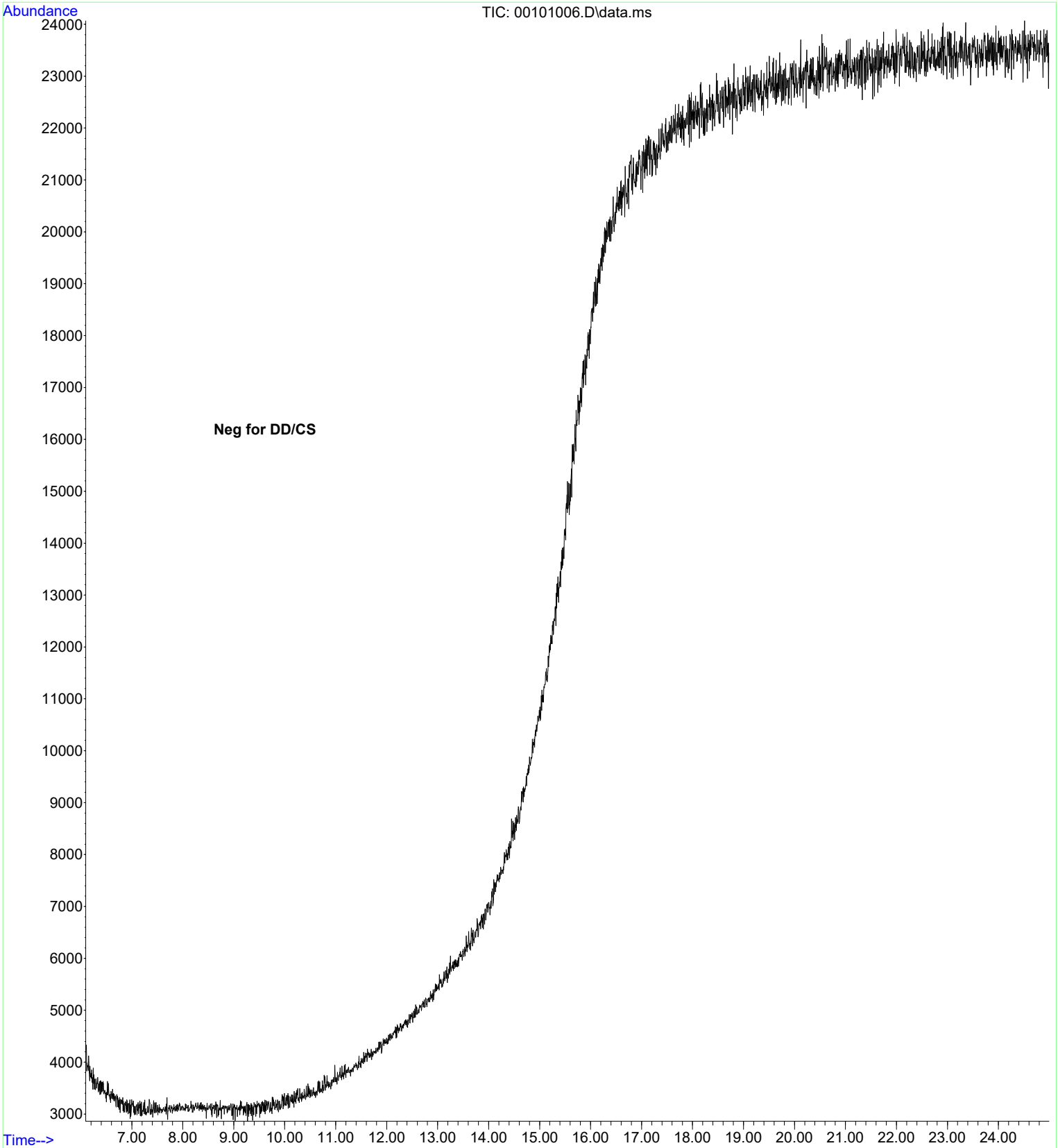
Library Searched : D:\MassHunter\GCMS#4 Library\DRUG.L Sample Name: Cayman GC/MS mix 3 (R-24-060)
Quality : 99
ID : Alprazolam



File :D:\MassHunter\GCMS\1\GCMS 4 data\Standards\Weekly Check Mix\
... 2025 Data\020625\00104004.D
Acquired : 06 Feb 2025 11:46 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



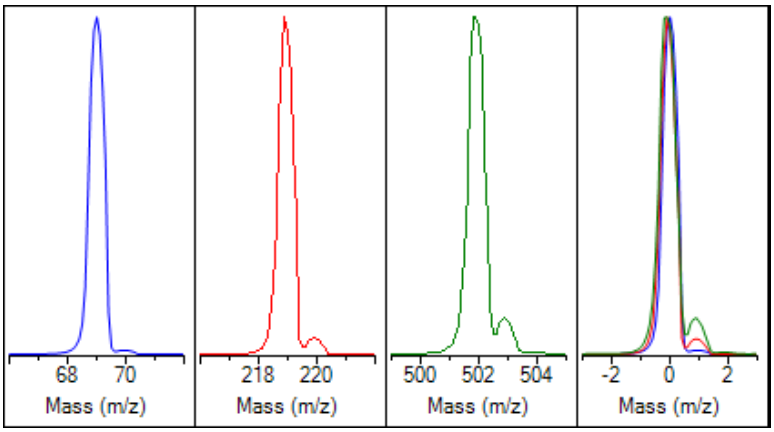
File :D:\MassHunter\GCMS\1\GCMS 4 data\Standards\Weekly Check Mix\
... 2025 Data\020625\00101006.D
Acquired : 06 Feb 2025 12:44 using AcqMethod DrugTest35MS.M
Instrument : GCMS #4
Sample Name: Blank (C-19-0068) - Instrument ready 000002668
Misc Info : ACN 000002668
Vial Number: 1



High Efficiency Source Autotune - 5977

Tune timestamp: 2/10/2025 9:04 AM (UTC-06:00) GCMS #4

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



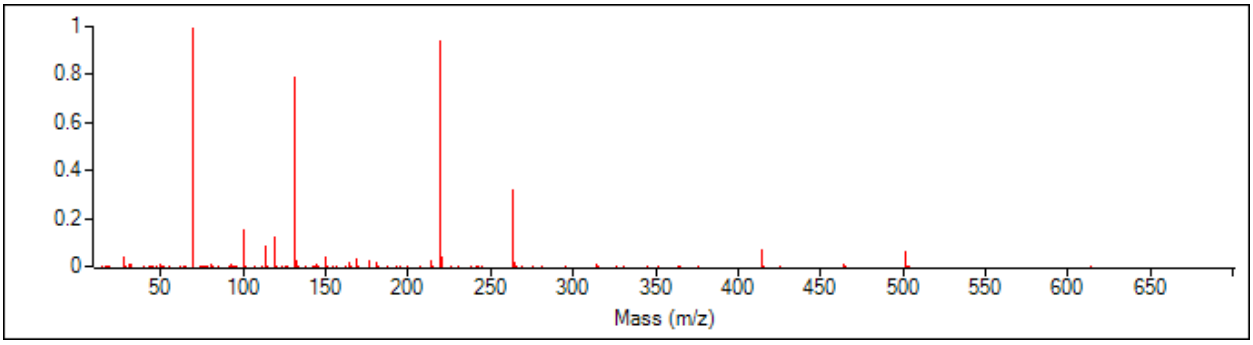
Ion Polarity	Pos	PFTBA	Open
Emission	100.0	Mass Gain	85
Electron Energy	70.0	Mass Offset	-28
Filament	1	Amu Gain	2433
Repeller	14.06	Amu Offset	137.44
Ion Focus	149.6	Width219	0.001
Entrance Lens	10.1	DC Polarity	Pos
Ent Lens Offset	13.90	HED Enable	On
Ion Body	5.25	EM Volts	2163.9
Post Extractor 1	12	Extractor Lens	14.60
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	454,370	100.0%	0.61
218.90	435,765	95.9%	0.62
501.90	33,569	7.4%	0.64

Temperatures and Pressures

MS Source	230	Turbo Speed	100.0
MS Quad	150	Hi Vac	7.49e-06

Low	High	Step	Speed	Threshold	Peaks	Base	Abundance	Total Ion
10.00	701.00	0.10	3	100	111	69.00	430,912	1,730,302



Target m/z	Actual m/z	Abund	Rel Abund	Iso m/z	Iso Abund	Iso Ratio
69.00	69.00	430,912	100.0%	70.00	5,061	1.2%
219.00	219.00	405,376	94.1%	220.00	18,536	4.6%
502.00	502.00	27,328	6.3%	503.00	2,950	10.8%

Air/Water Check: H20 ~0.2% N2 ~4.3% O2 ~1.0% CO2 ~0.2% N2/H20 ~2482.9%

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 9943.035

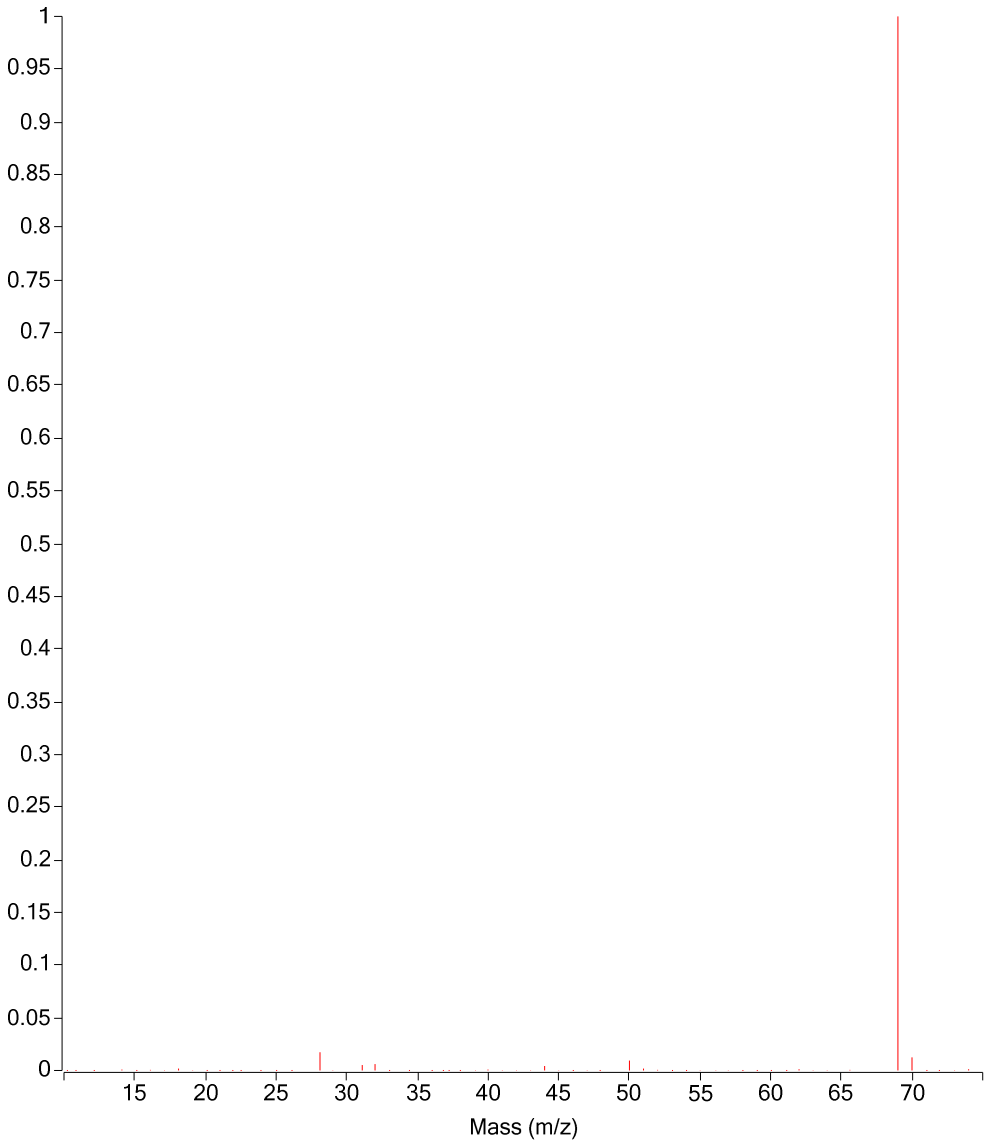
Repeller maximum 35 volts using ion 219; Gain Factor 0.0994

Mass Gain Values(Scan Speed): 97(3) 103(2) 113(1) 122(0) 174(FS1) 174(FS2) 130(FS3)

TARGET MASS:	50	69	131	219	414	502	1050
Amu Offset	137.4	137.4	137.4	137.4	137.4	137.4	137.4
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 Feb 10 08:54:06 2025 D:\MassHunter\GCMS\1\5977\



Current Params used: HES_Atune.u

Relative abundances:

18/69 =	0.17	Water%	(counts=1287)
28/69 =	1.72	Nitrogen%	(counts=13229)
32/69 =	0.61	Oxygen%	(counts=4668)
44/69 =	0.43	Carbon Dioxide%	(counts=3285)
28/18 =	1027.89	Nitrogen/Water%	

Instrument Name : GCMS #4
DC Polarity : Positive
Filament 1
Current Vacuum status :High Vacuum: 5.62E-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	502.00	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%)	1.20	OK
Ratio of mass 220 to mass 219(3.2 - 5.4%)	4.61	OK
Ratio of mass 503 to mass 502(7.9 - 12.3%)	10.37	OK
Ratio of 219 to 69 should be > 40% and is	96.87	OK
Ratio of 502 to 69 should be > 2.4% and is	7.41	OK
Mass 69 Precursor (<= 3%)	0.83	OK
Mass 219 Precursor (<= 6%)	1.72	OK
Mass 502 Precursor (<= 12%)	3.76	OK

597x Air and Water Check
Mon Feb 10 09:11:56 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%)	0.17	OK
Ratio of 28 to 69 (<10%)	4.30	OK
Electron Multiplier Voltage	2164	OK

Tune portion of System Verification passed.

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

02/10/2025 - 02/16/2025

[X] **Tune:** DS/DN **02/10/2025 - HES Autotune**

Standard	Standard #	Method	Retention Time	1% Window	
Methamphetamine	R-24-060	DrugTest35MS	8.044	7.963	8.124
Cocaine	R-24-060	DrugTest35MS	14.687	14.540	14.833
Heroin	R-24-060	DrugTest35MS	16.423	16.258	16.587
Fentanyl	R-24-060	DrugTest35MS	16.500	16.335	16.665
Alprazolam	R-24-060	DrugTest35MS	18.820	18.631	19.008

Brazoria County Crime Lab Area Percent Report

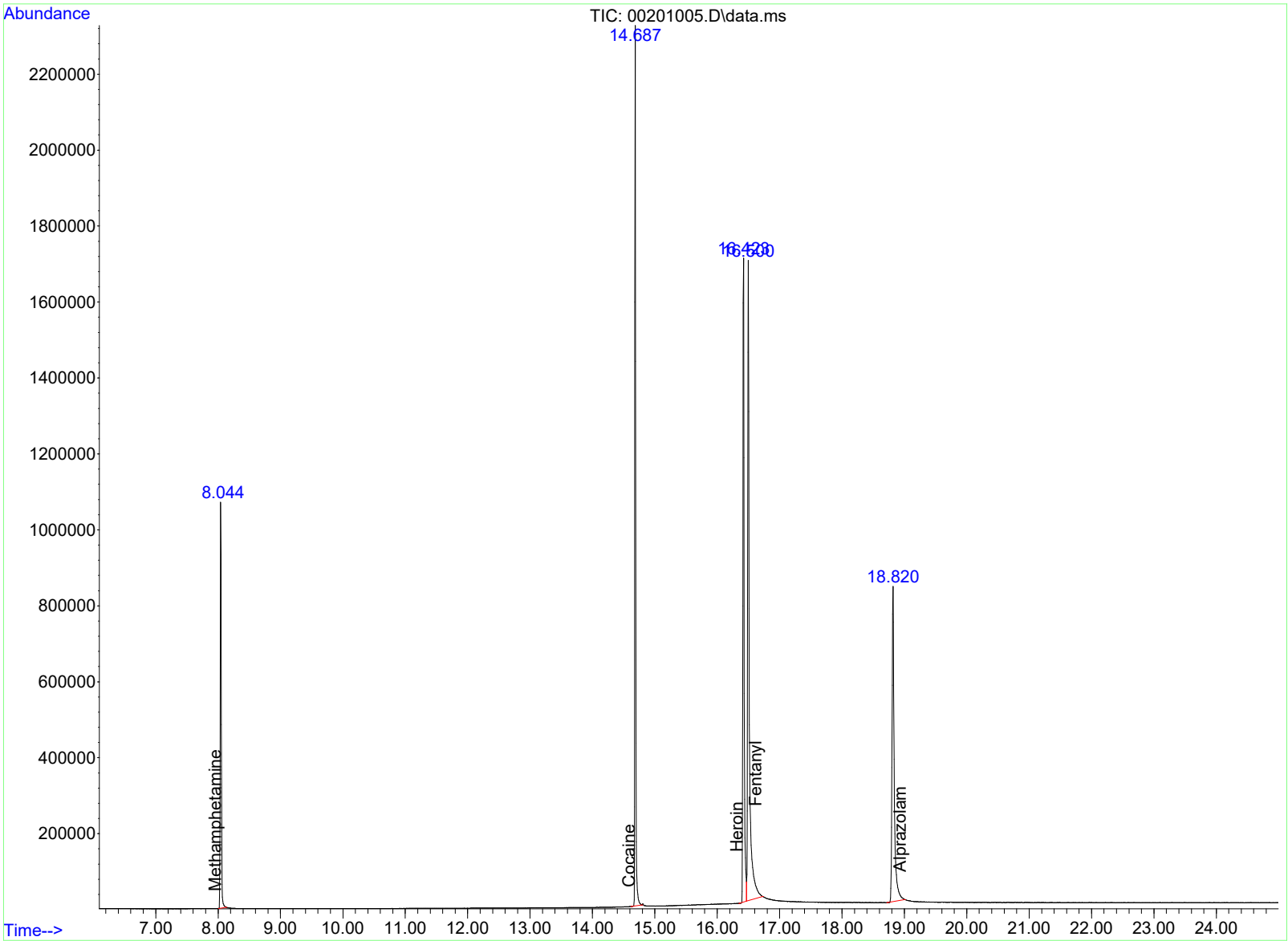
Data File: D:\MassHunter\GCMS\1\GCMS 4 data\Standards\Weekly Check Mix\2025 Data\021025\00201005.D
Method : D:\MassHunter\GCMS\1\methods\DrugTest35MS.M
Operator : AGILENT 4
Acq On : 10 Feb 2025 10:38
Sample : Cayman GC/MS mix 3 (R-24-060)
Misc : in ACN
ALS Vial : 2
ExpBcode : 000002669
ActBcode : 000002669

Signal : TIC: 00201005.D\data.ms

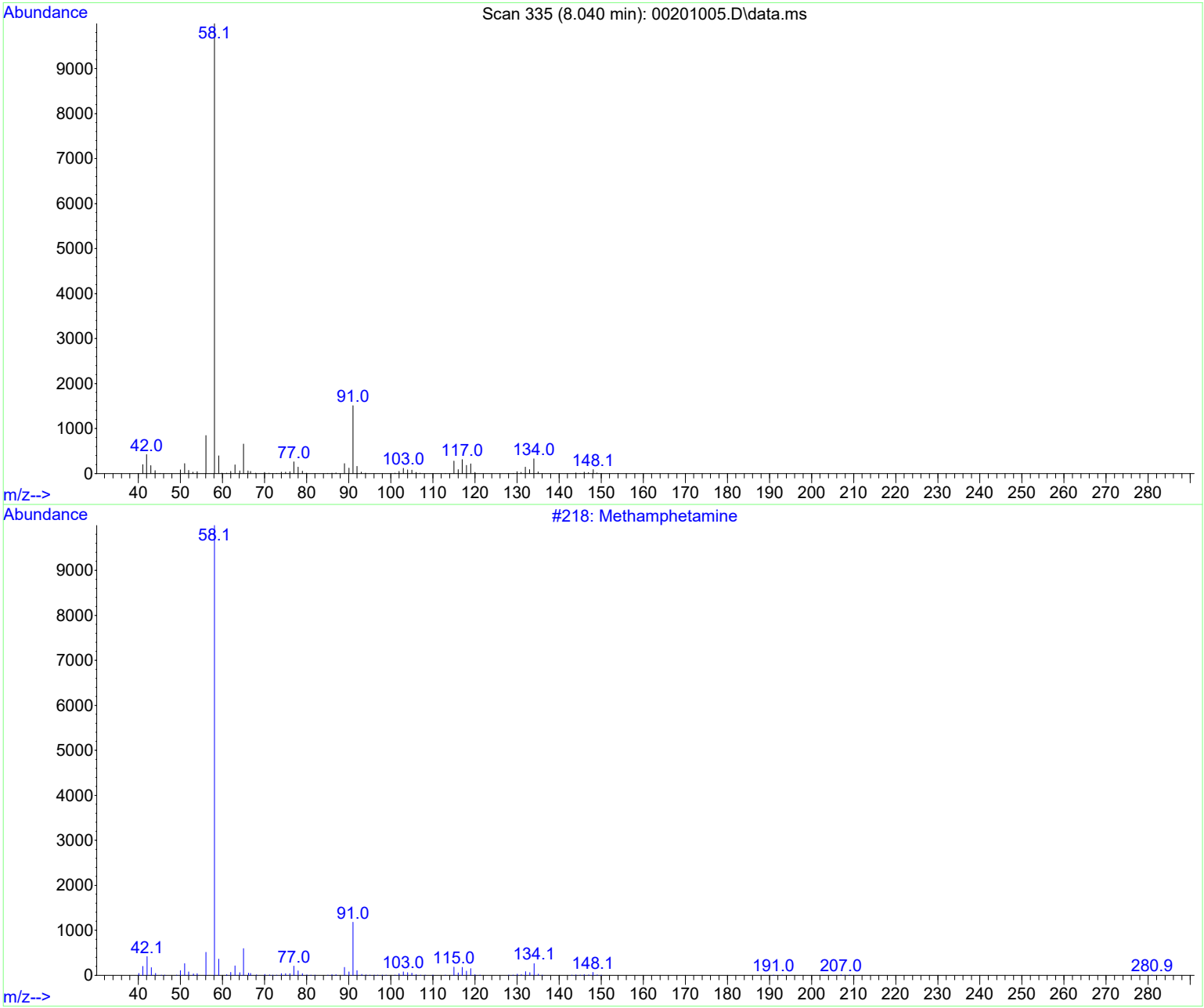
peak #	R.T. min	first scan	max scan	last scan	PK TY	peak height	corr. area	corr. % max.	% of total
1	8.044	329	336	350	BB	1043850	13141043	42.06%	11.884%
2	14.687	1463	1475	1494	BB	2187141	22773931	72.89%	20.596%
3	16.423	1761	1773	1781	BV	1669347	23467655	75.11%	21.224%
4	16.500	1781	1786	1826	VB	1622233	31244453	100.00%	28.257%
5	18.820	2167	2184	2216	BB 2	817502	19946178	63.84%	18.039%

Sum of corrected areas: 110573259

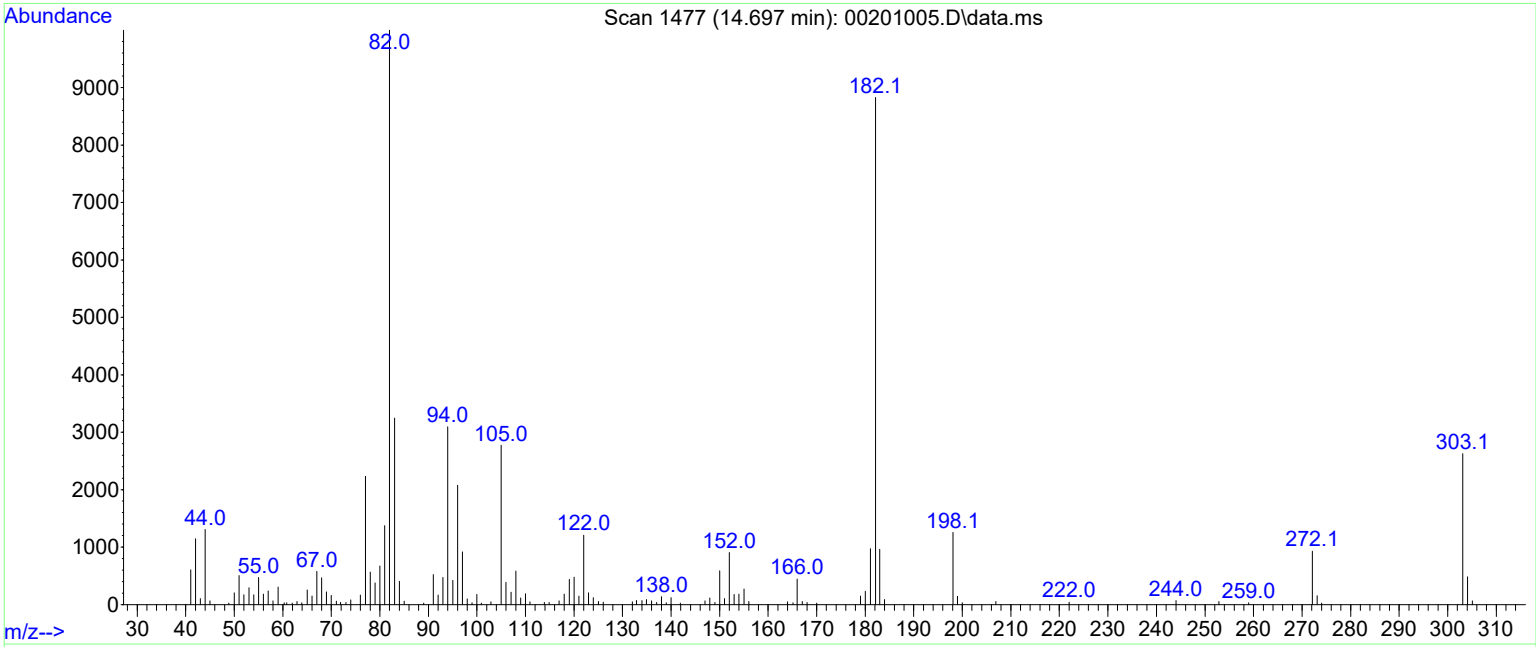
DrugTest35MS.M Mon Feb 10 14:44:49 2025 DRUGS

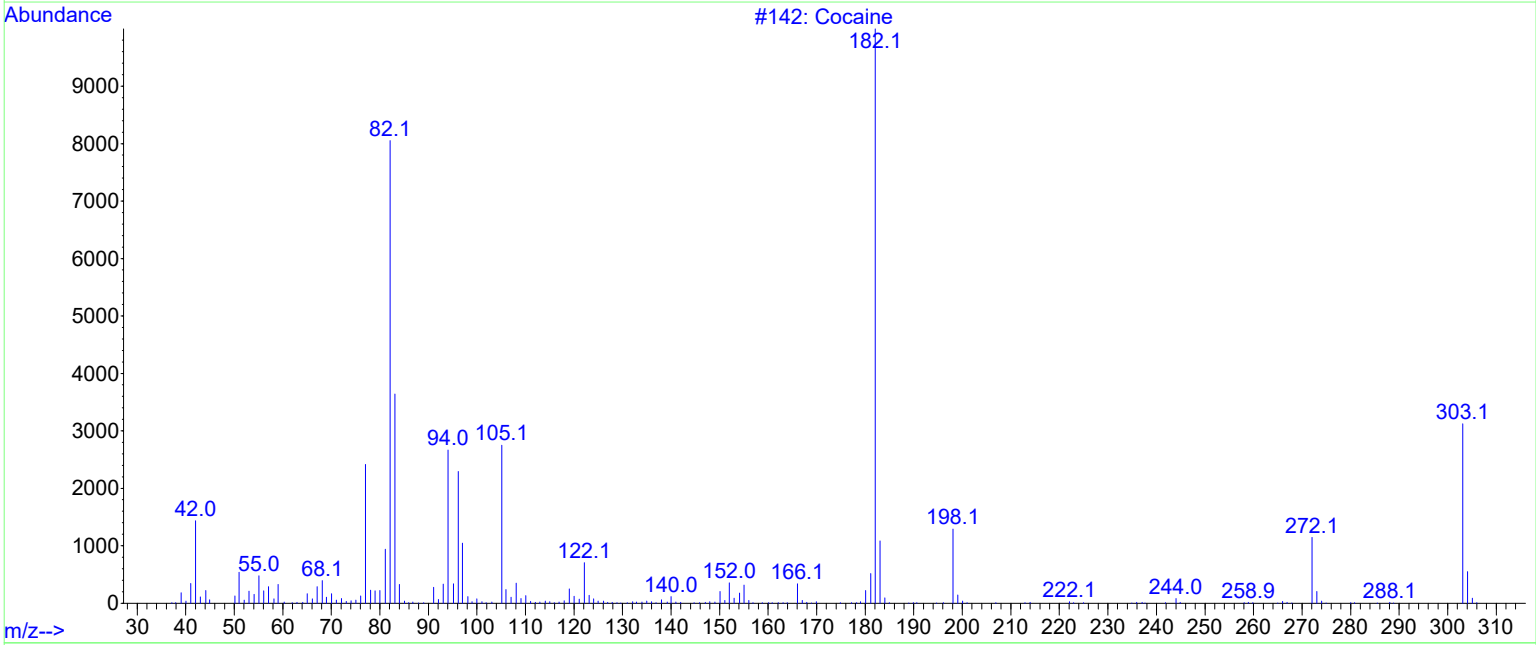


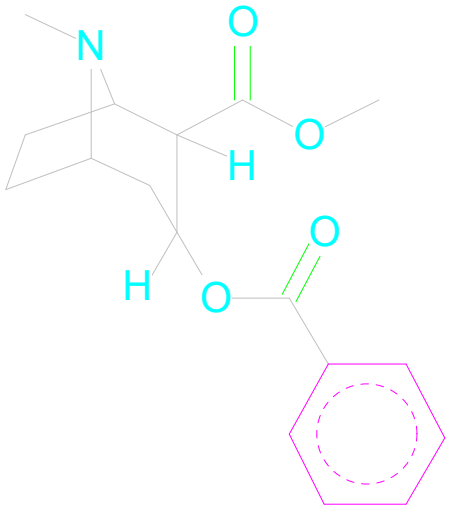
Library Searched : D:\MassHunter\GCMS#4 Library\DRUG.L Sample Name: Cayman GC/MS mix 3 (R-24-060)
Quality : 86
ID : Methamphetamine



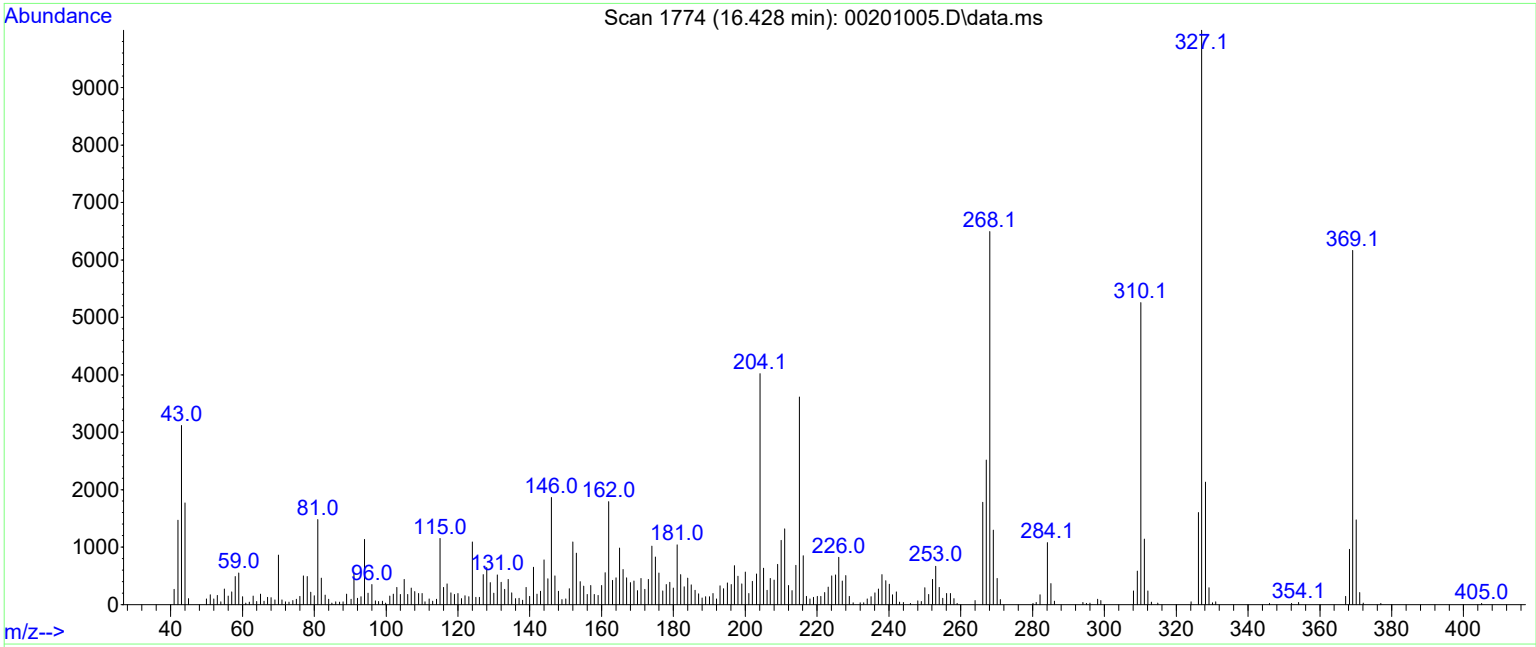
Library Searched : D:\MassHunter\GCMS#4 Library\DRUG.L Sample Name: Cayman GC/MS mix 3 (R-24-060)
Quality : 98
ID : Cocaine

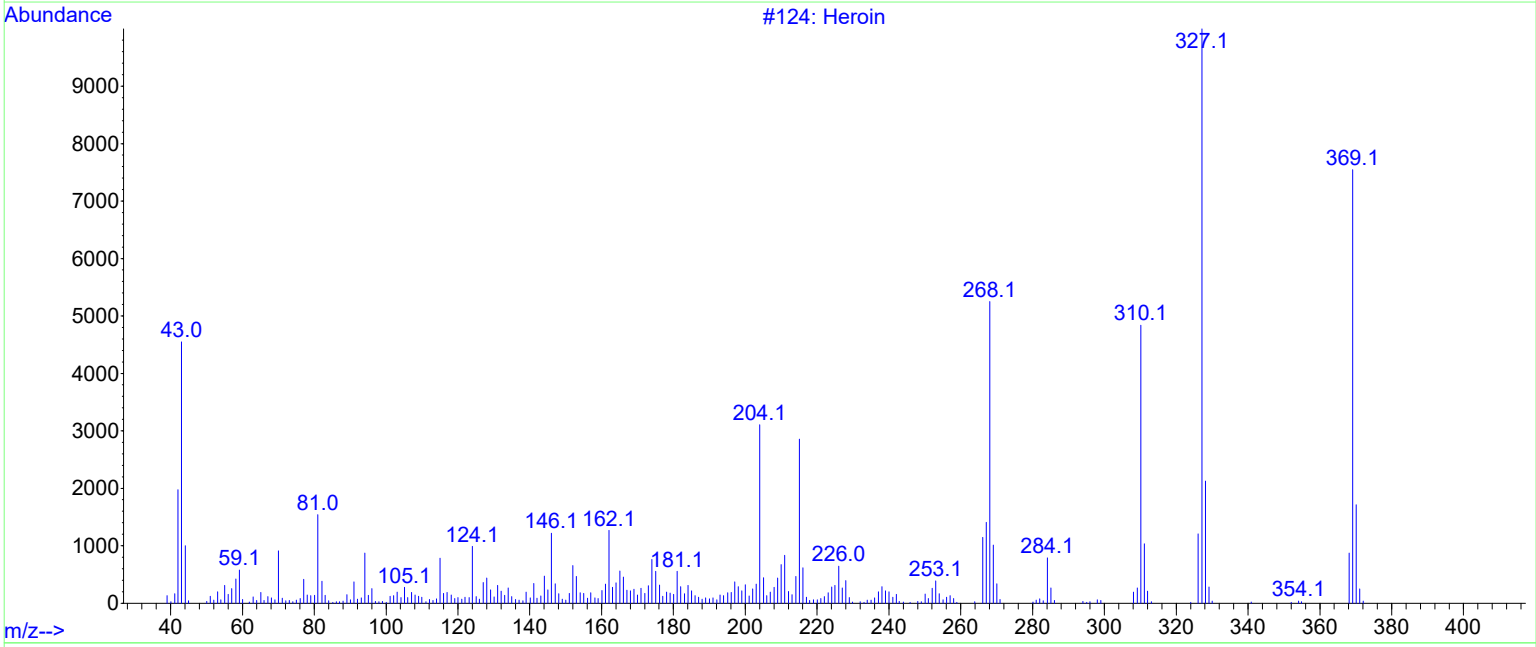


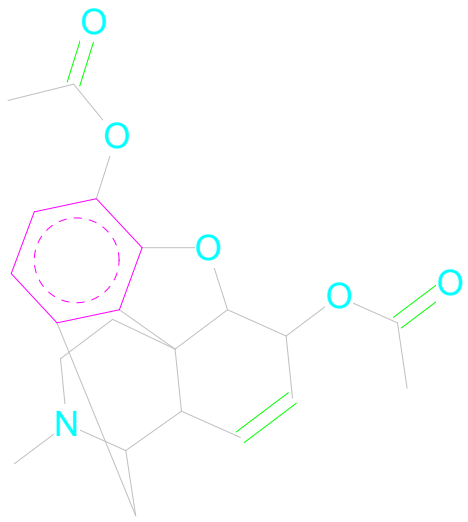




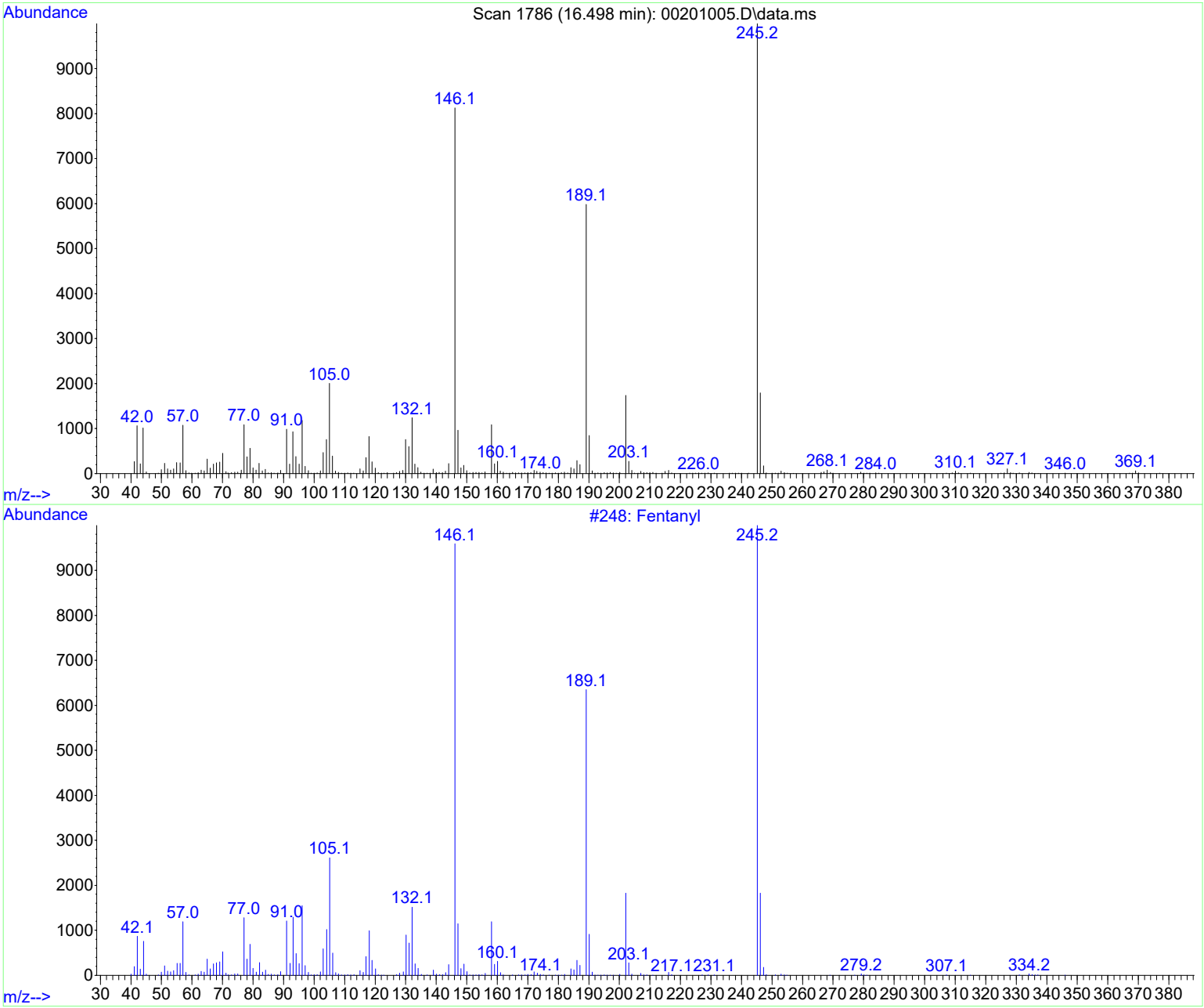
Library Searched : D:\MassHunter\GCMS#4 Library\DRUG.L Sample Name: Cayman GC/MS mix 3 (R-24-060)
Quality : 99
ID : Heroin



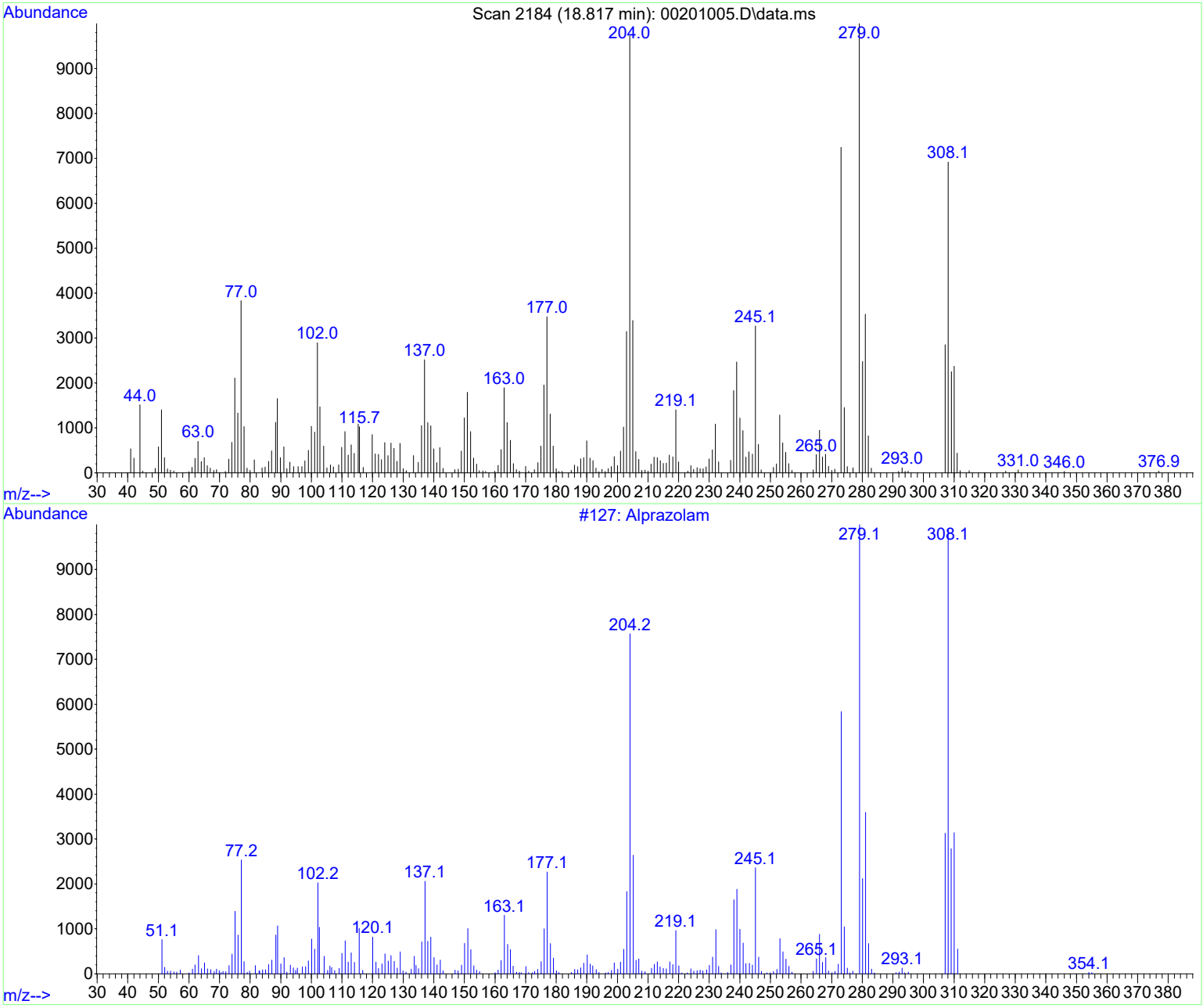




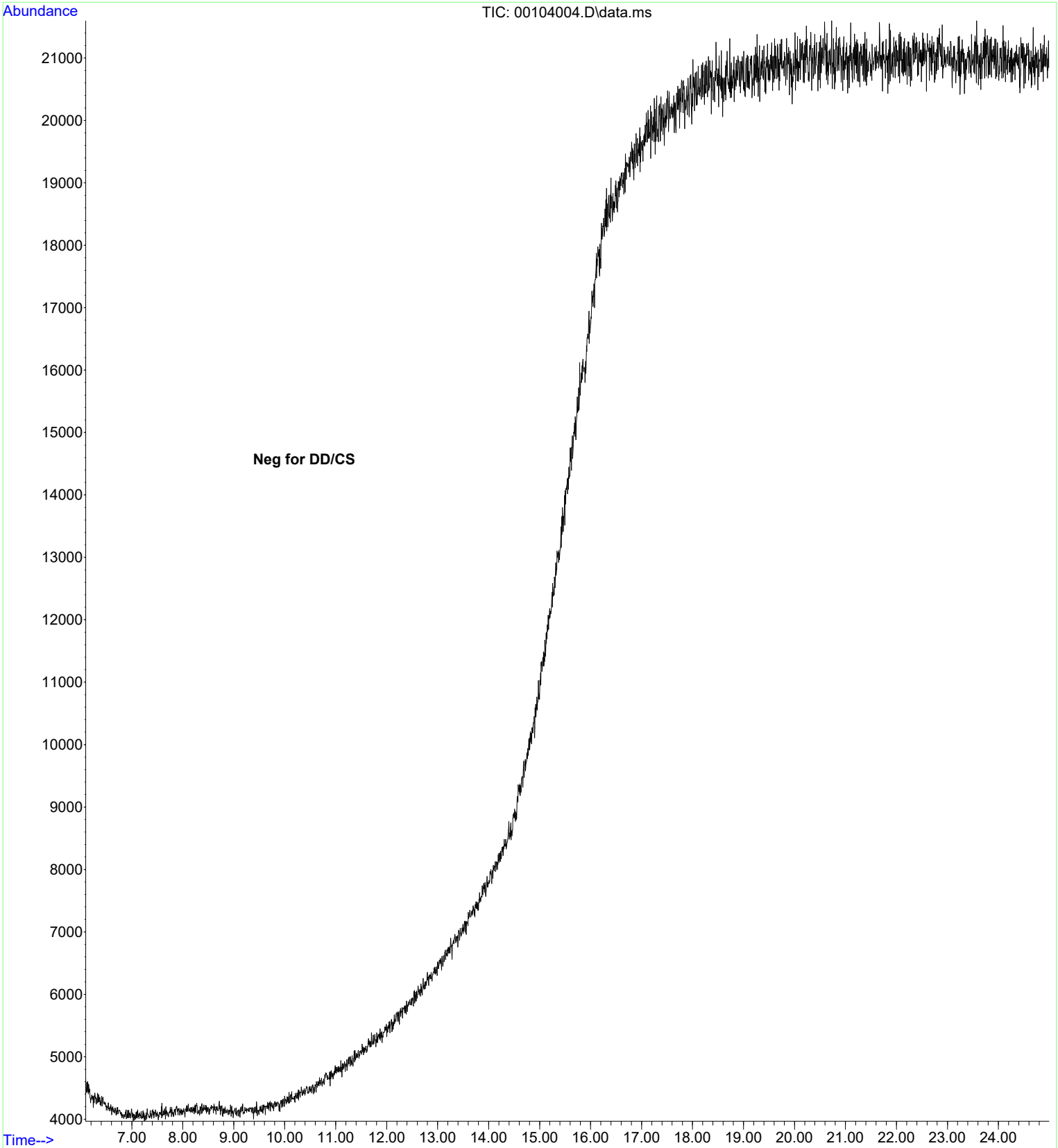
Library Searched : D:\MassHunter\GCMS#4 Library\DRUG.L Sample Name: Cayman GC/MS mix 3 (R-24-060)
Quality : 99
ID : Fentanyl



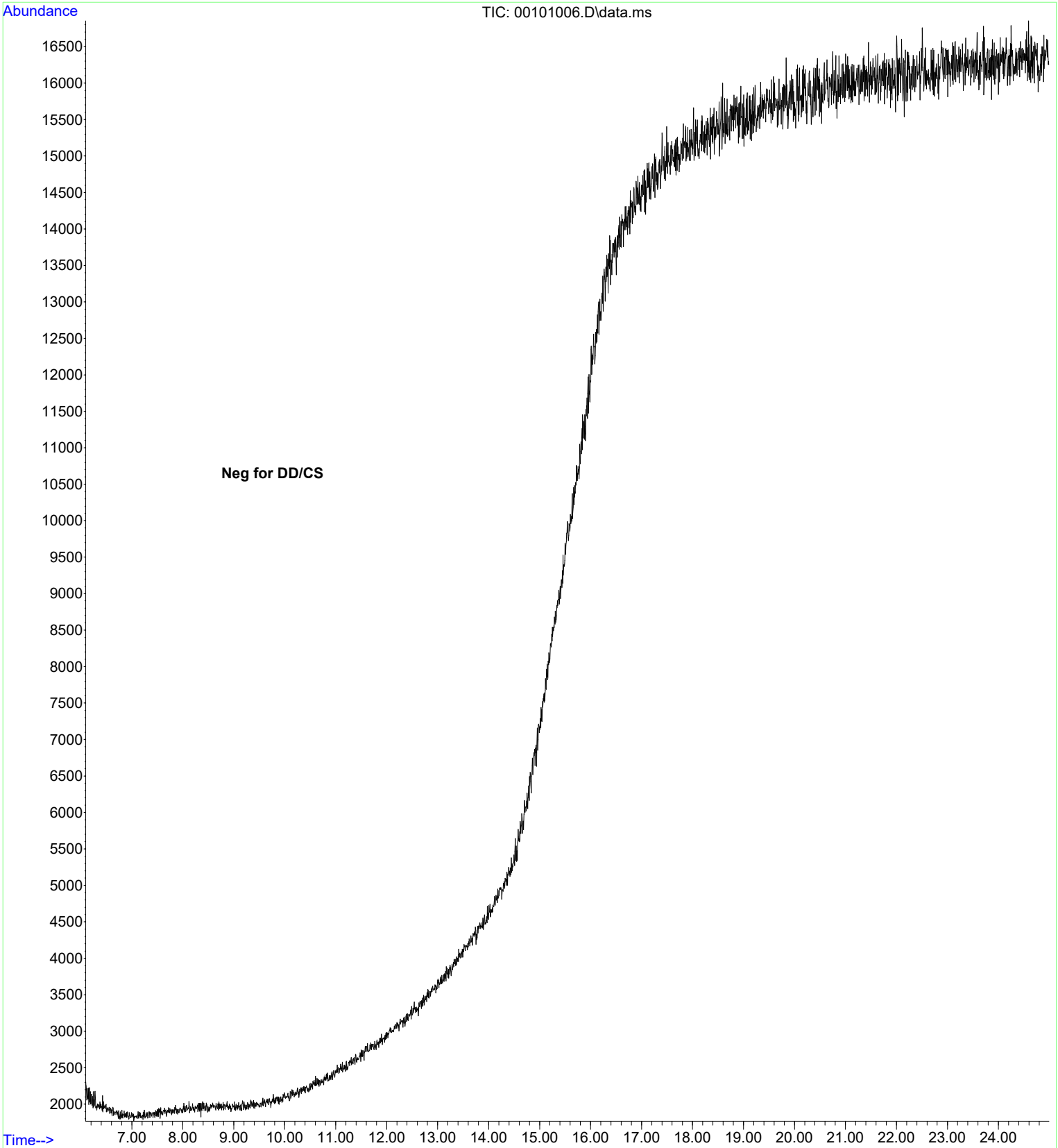
Library Searched : D:\MassHunter\GCMS#4 Library\DRUG.L Sample Name: Cayman GC/MS mix 3 (R-24-060)
Quality : 99
ID : Alprazolam



File :D:\MassHunter\GCMS\1\GCMS 4 data\Standards\Weekly Check Mix\
... 2025 Data\021025\00104004.D
Acquired : 10 Feb 2025 10:09 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



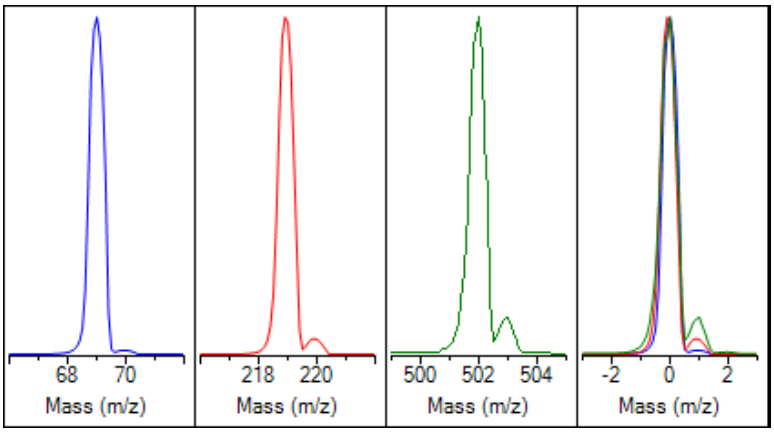
File :D:\MassHunter\GCMS\1\GCMS 4 data\Standards\Weekly Check Mix\
... 2025 Data\021025\00101006.D
Acquired : 10 Feb 2025 11:06 using AcqMethod DrugTest35MS.M
Instrument : GCMS #4
Sample Name: Blank (C-19-0068) - Instrument ready 000002668
Misc Info : ACN 000002668
Vial Number: 1



High Efficiency Source Autotune - 5977

Tune timestamp: 2/17/2025 10:39 AM (UTC-06:00) GCMS #4

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



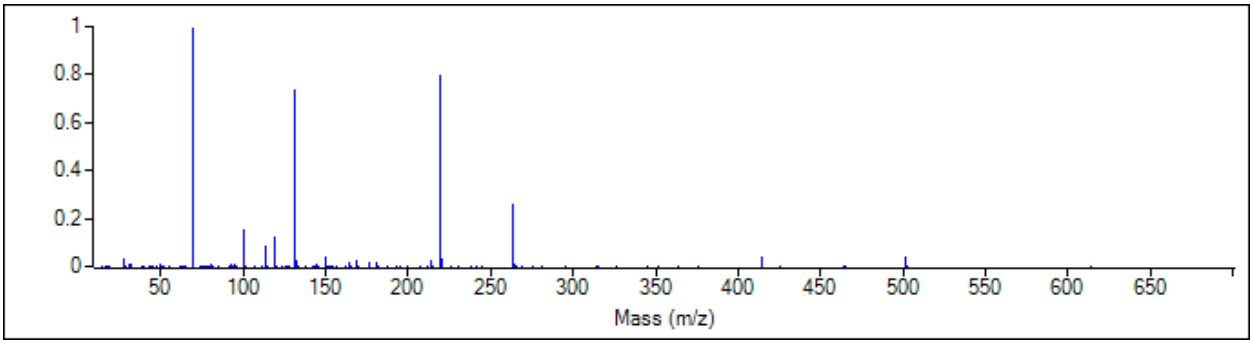
Ion Polarity	Pos	PFTBA	Open
Emission	100.0	Mass Gain	84
Electron Energy	70.0	Mass Offset	-28
Filament	1	Amu Gain	2439
Repeller	11.32	Amu Offset	136.94
Ion Focus	149.6	Width219	0.001
Entrance Lens	7.5	DC Polarity	Pos
Ent Lens Offset	15.10	HED Enable	On
Ion Body	5.25	EM Volts	2198.5
Post Extractor 1	16	Extractor Lens	13.50
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	448,351	100.0%	0.60
218.90	394,344	88.0%	0.60
502.00	18,307	4.1%	0.65

Temperatures and Pressures

MS Source	230	Turbo Speed	100.0
MS Quad	150	Hi Vac	7.12e-06

Low	High	Step	Speed	Threshold	Peaks	Base	Abundance	Total Ion
10.00	701.00	0.10	3	100	113	69.00	424,640	1,555,186



Target m/z	Actual m/z	Abund	Rel Abund	Iso m/z	Iso Abund	Iso Ratio
69.00	69.00	424,640	100.0%	70.00	5,044	1.2%
219.00	219.00	338,880	79.8%	220.00	15,792	4.7%
502.00	502.00	17,856	4.2%	503.00	1,766	9.9%

Air/Water Check: H20 ~0.1% N2 ~3.5% O2 ~0.9% CO2 ~0.2% N2/H20 ~2738.6%

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 9514.217

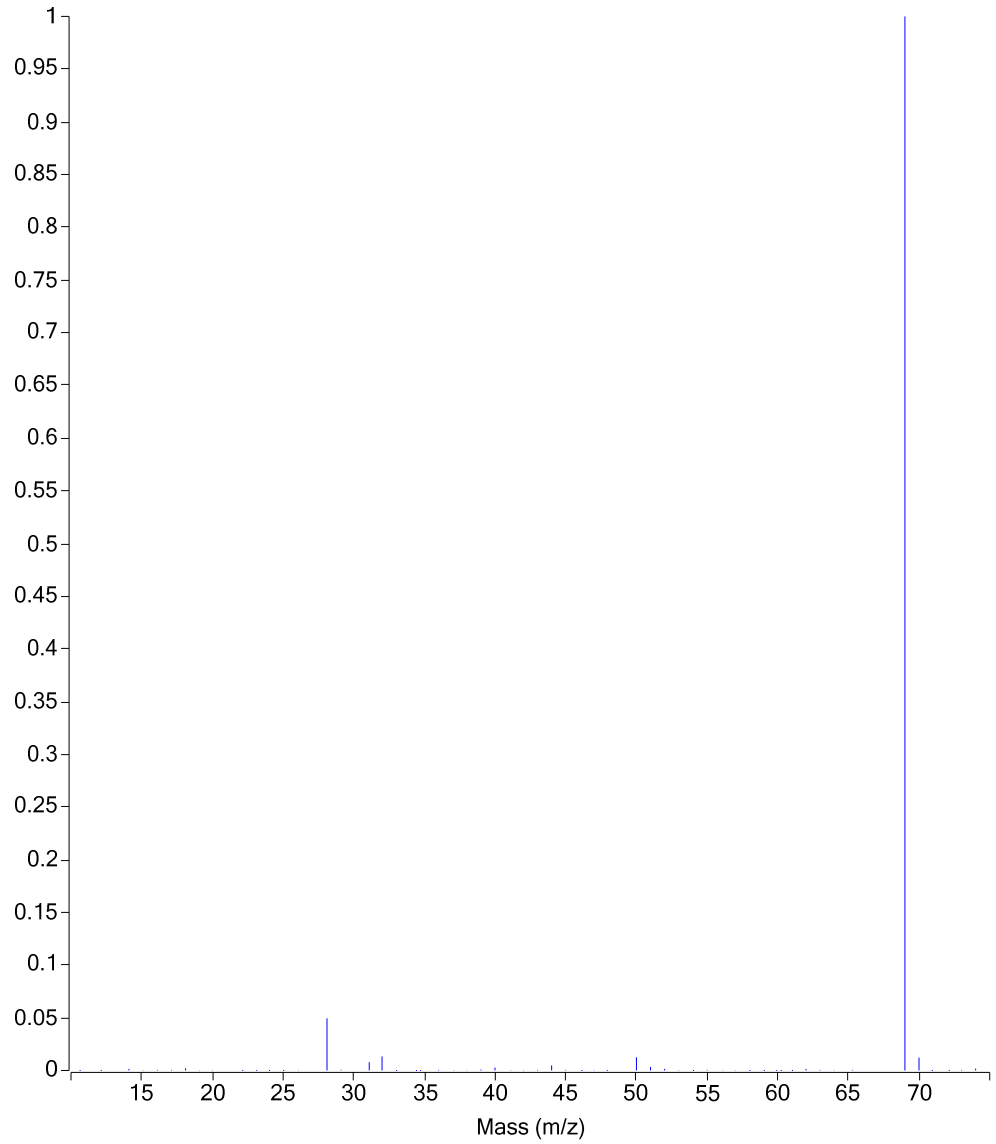
Repeller maximum 35 volts using ion 219; Gain Factor 0.0951

Mass Gain Values(Scan Speed): 92(3) 96(2) 110(1) 119(0) 172(FS1) 171(FS2) 127(FS3)

TARGET MASS:	50	69	131	219	414	502	1050
Amu Offset	136.9	136.9	136.9	136.9	136.9	136.9	136.9
Entrance Lens Offset	15.1	15.1	15.1	15.1	15.1	15.1	15.1

597x Air and Water Check

Instrument: GCMS #4
Mon Feb 17 10:19:40 2025 D:\MassHunter\GCMS\1\5977\



Current Params used: HES_Atune.u

Relative abundances:

18/69 =	0.21	Water%	(counts=1128)
28/69 =	4.96	Nitrogen%	(counts=27080)
32/69 =	1.33	Oxygen%	(counts=7239)
44/69 =	0.49	Carbon Dioxide%	(counts=2684)
28/18 =	2400.71	Nitrogen/Water%	

Instrument Name : GCMS #4
DC Polarity : Positive
Filament 1
Current Vacuum status :High Vacuum: 5.59E-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	502.00	OK
Position of isotope mass 70	70.00	OK
Position of isotope mass 220	219.99	OK
Position of isotope mass 503	503.00	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%)	4.59	OK
Ratio of mass 503 to mass 502(7.9 - 12.3%)	10.16	OK
Ratio of 219 to 69 should be > 40% and is	82.93	OK
Ratio of 502 to 69 should be > 2.4% and is	4.15	OK
Mass 69 Precursor (<= 3%)	0.61	OK
Mass 219 Precursor (<= 6%)	1.82	OK
Mass 502 Precursor (<= 12%)	4.75	OK

597x Air and Water Check
Mon Feb 17 10:43:31 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%)	0.12	OK
Ratio of 28 to 69 (<10%)	3.47	OK
Electron Multiplier Voltage	2198	OK

Tune portion of System Verification passed.

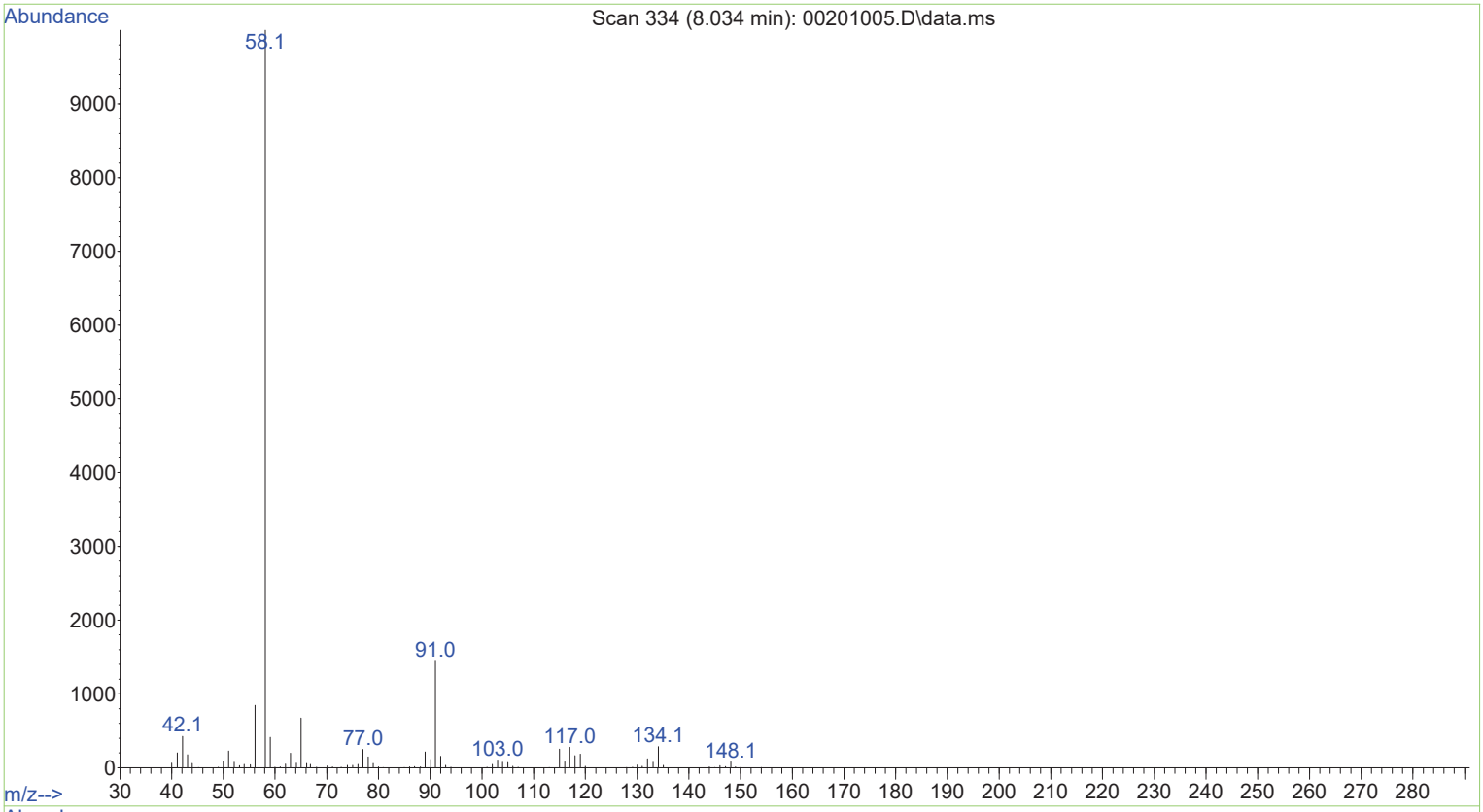
BCCL GC/MS #4
Retention Times for the Week of:

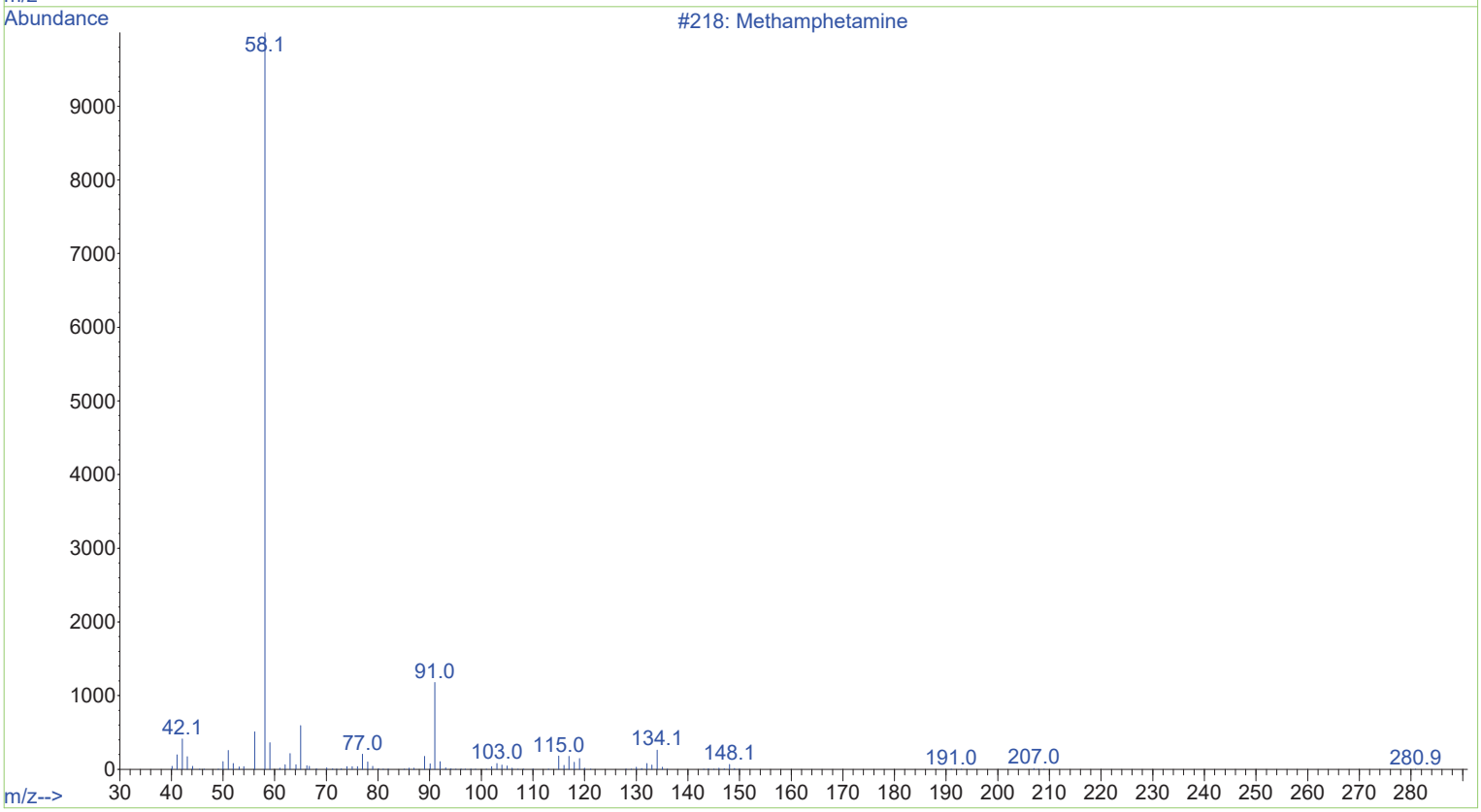
02/17/2025 - 02/23/2025

[X] **Tune:** DS **02/17/2025 - HES Autotune**

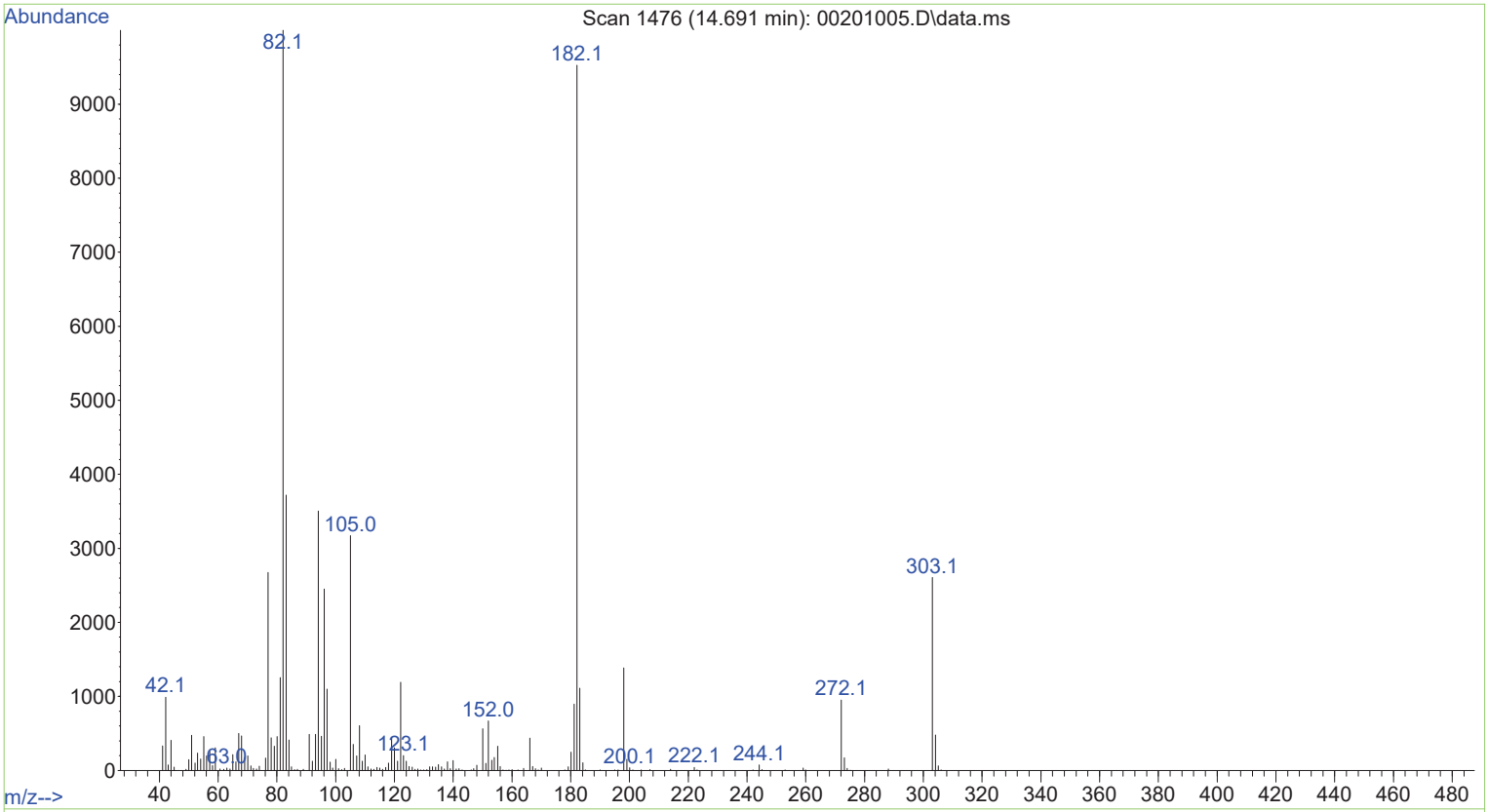
Standard	Standard #	Method	Retention Time	1% Window	
Methamphetamine	R-24-060	DrugTest35MS	8.043	7.962	8.123
Cocaine	R-24-060	DrugTest35MS	14.687	14.540	14.833
Heroin	R-24-060	DrugTest35MS	16.423	16.258	16.587
Fentanyl	R-24-060	DrugTest35MS	16.501	16.335	16.666
Alprazolam	R-24-060	DrugTest35MS	18.822	18.633	19.010
Ketamine	S-21-027	DrugTest35MS	13.496	13.361	13.630
delta-9 THC	R-24-025	DrugTest35MS	15.350	15.196	15.503

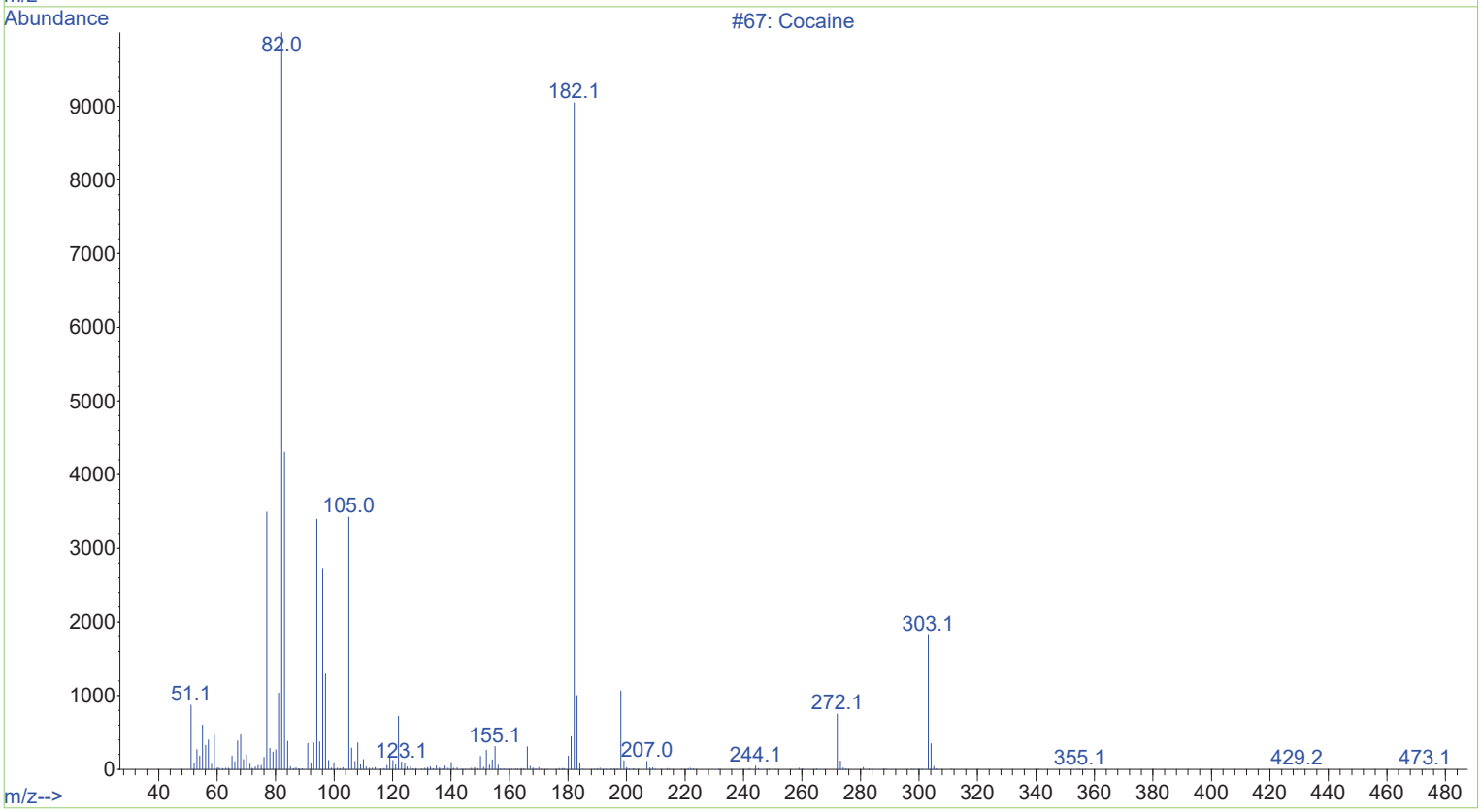
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... 2025 Data\021725\00201005.D
Acquired : 17 Feb 2025 12:03 using AcqMethod DrugTest35MS.M
Instrument : GCMS #4
Sample Name: Cayman GC/MS mix 3 (R-24-060) 000002669
Misc Info : in ACN 000002669
Vial Number: 2



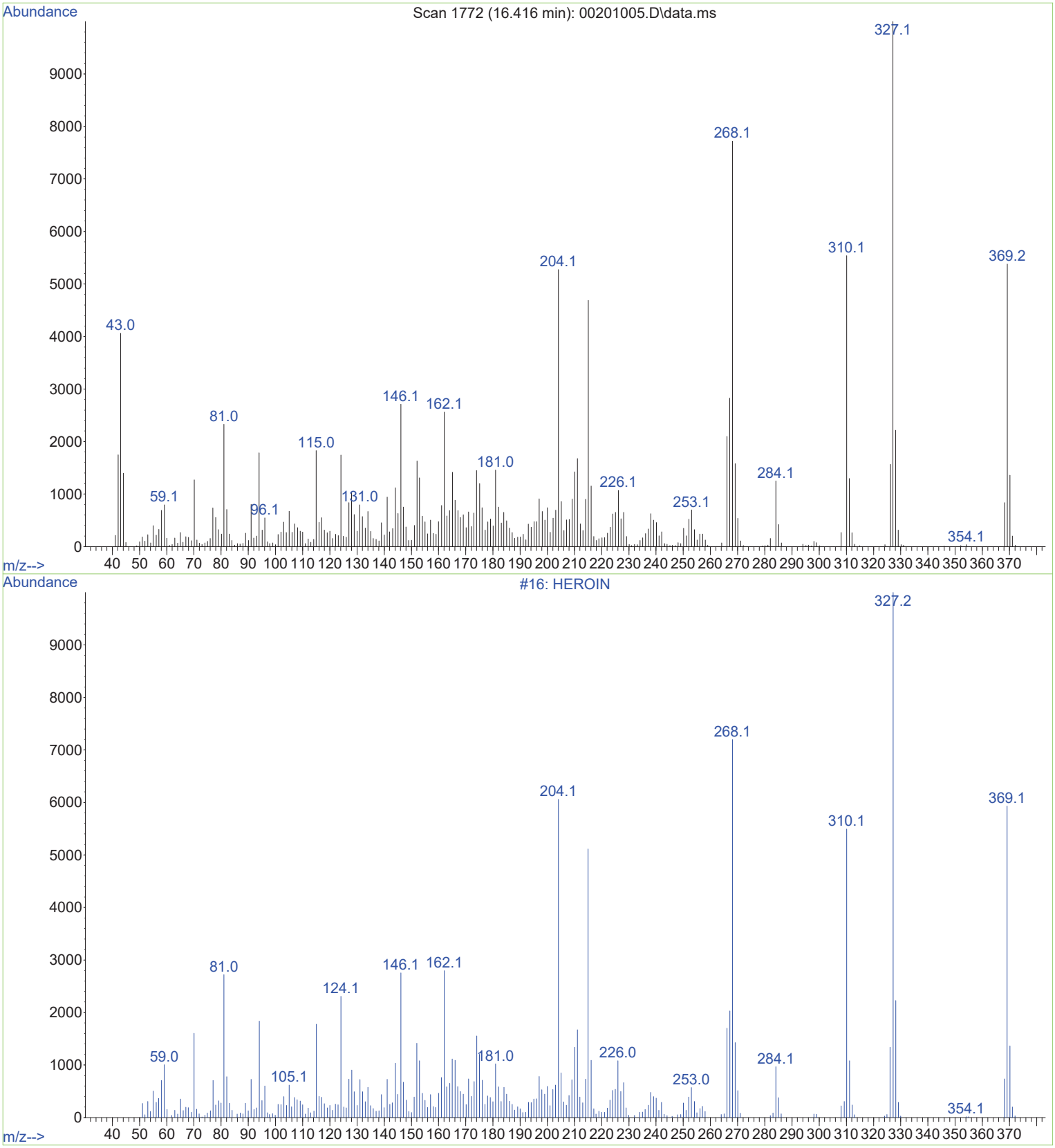


File :D:\MassHunter\GCMS\1\GCMS 4 data\Standards\Weekly Check Mix\
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Acquired : 17 Feb 2025 12:03 using AcqMethod DrugTest35MS.M
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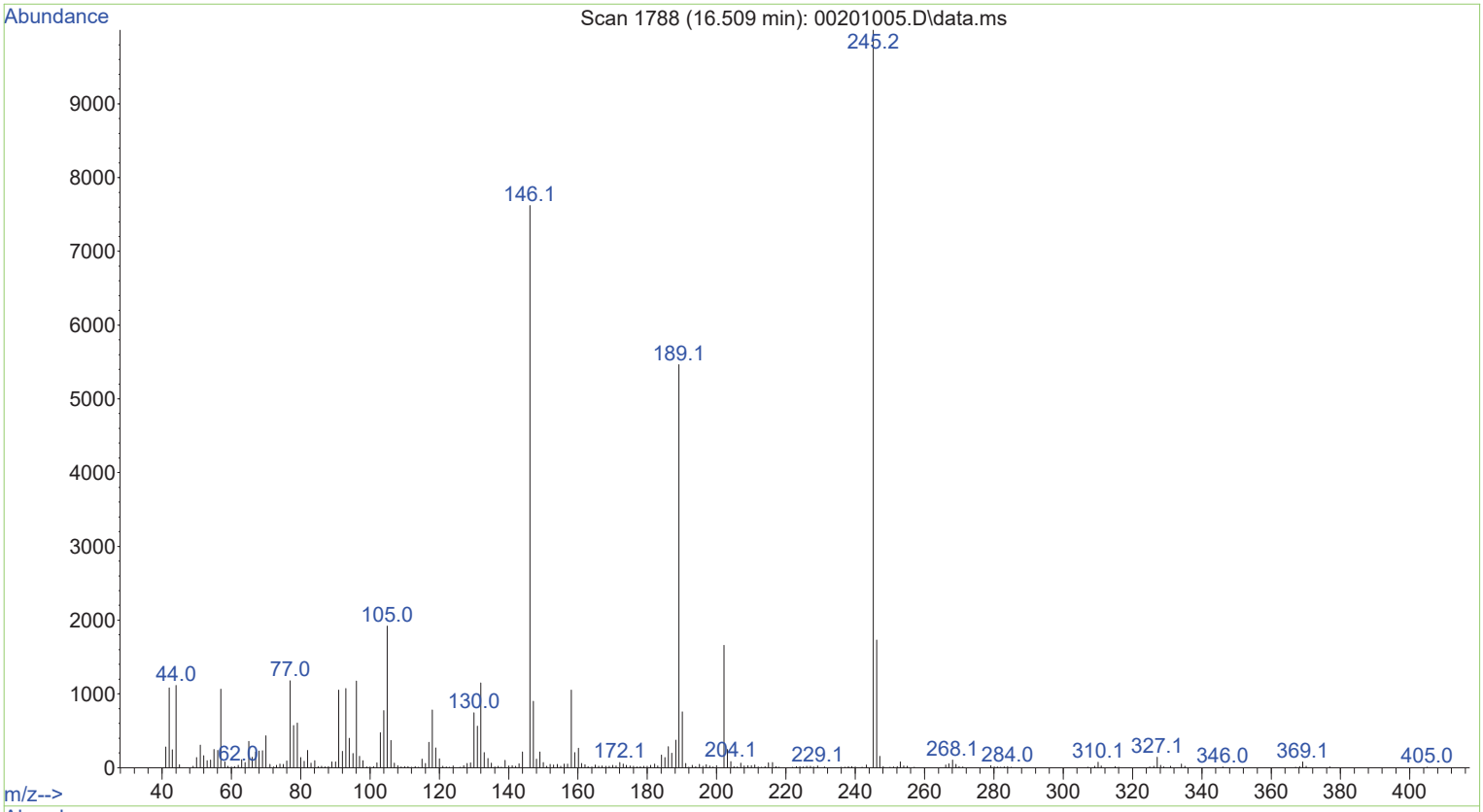


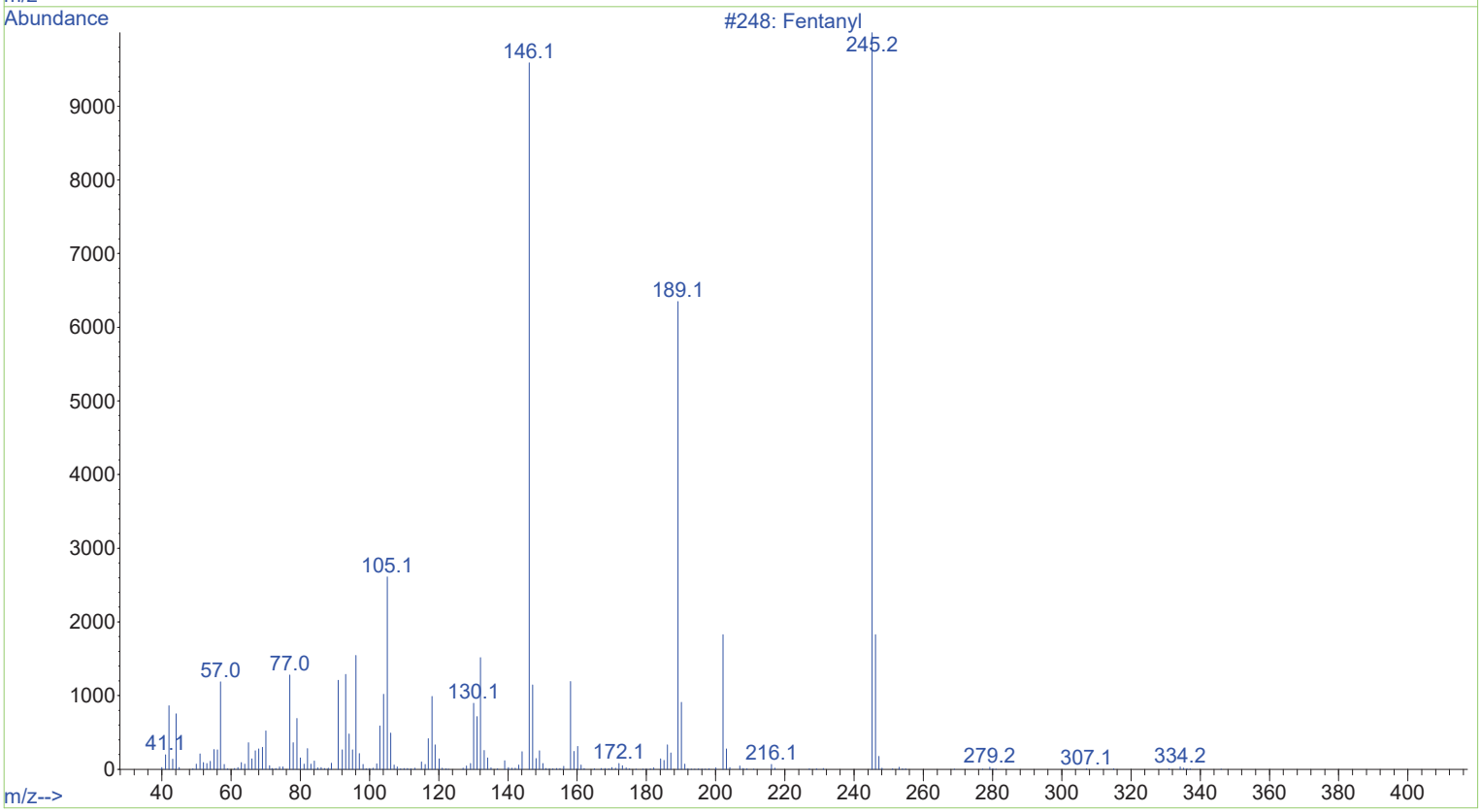


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File       :D:\MassHunter\GCMS\1\GCMS 4 data\Standards\Weekly Check Mix\
...         2025 Data\021725\00201005.D
Acquired   : 17 Feb 2025  12:03     using AcqMethod DrugTest35MS.M
Instrument :   GCMS #4
Sample Name: Cayman GC/MS mix 3 (R-24-060)                  000002669
Misc Info  : in ACN                                         000002669
Vial Number: 2
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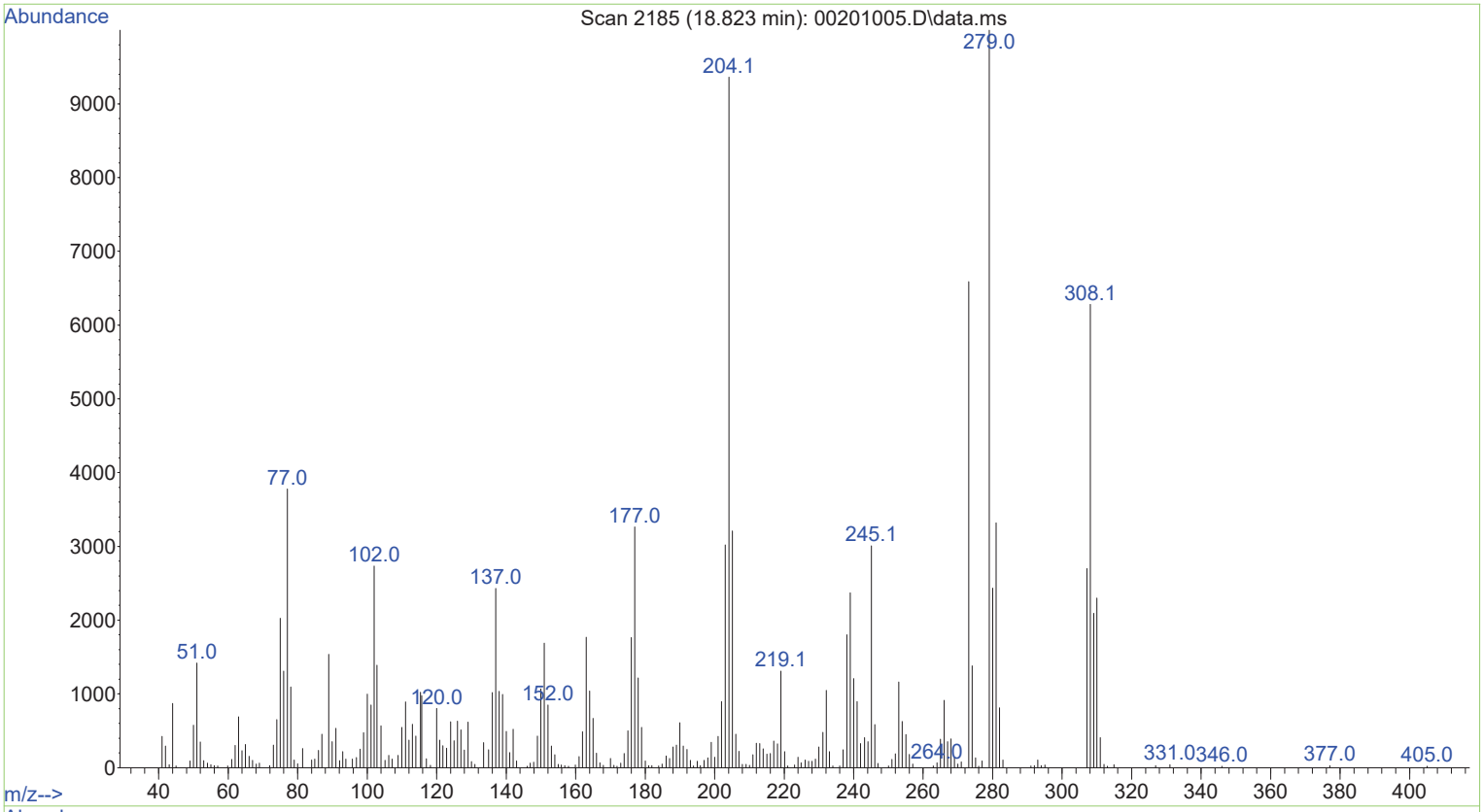


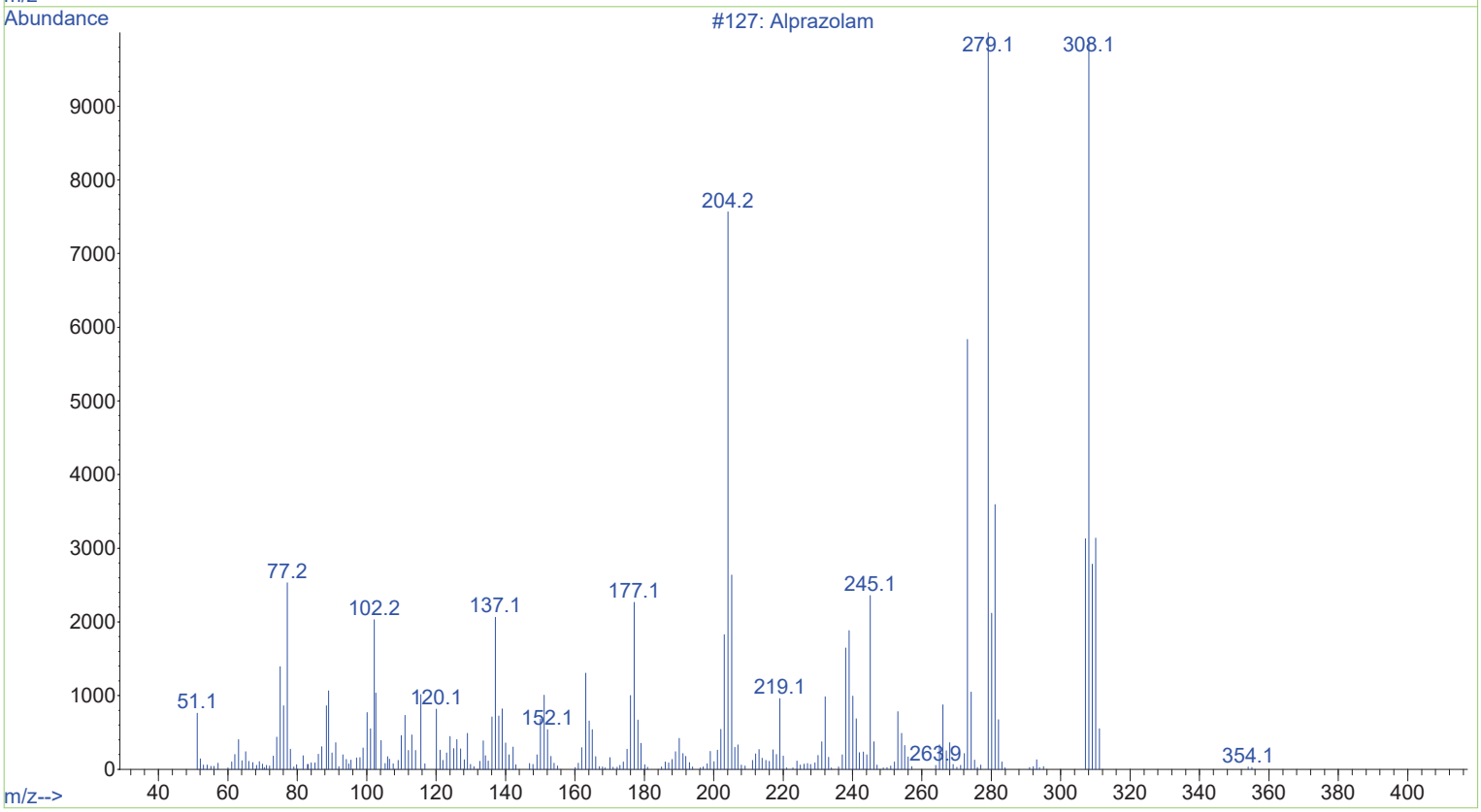
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Acquired : 17 Feb 2025 12:03 using AcqMethod DrugTest35MS.M
Instrument : GCMS #4
Sample Name: Cayman GC/MS mix 3 (R-24-060) 000002669
Misc Info : in ACN 000002669
Vial Number: 2



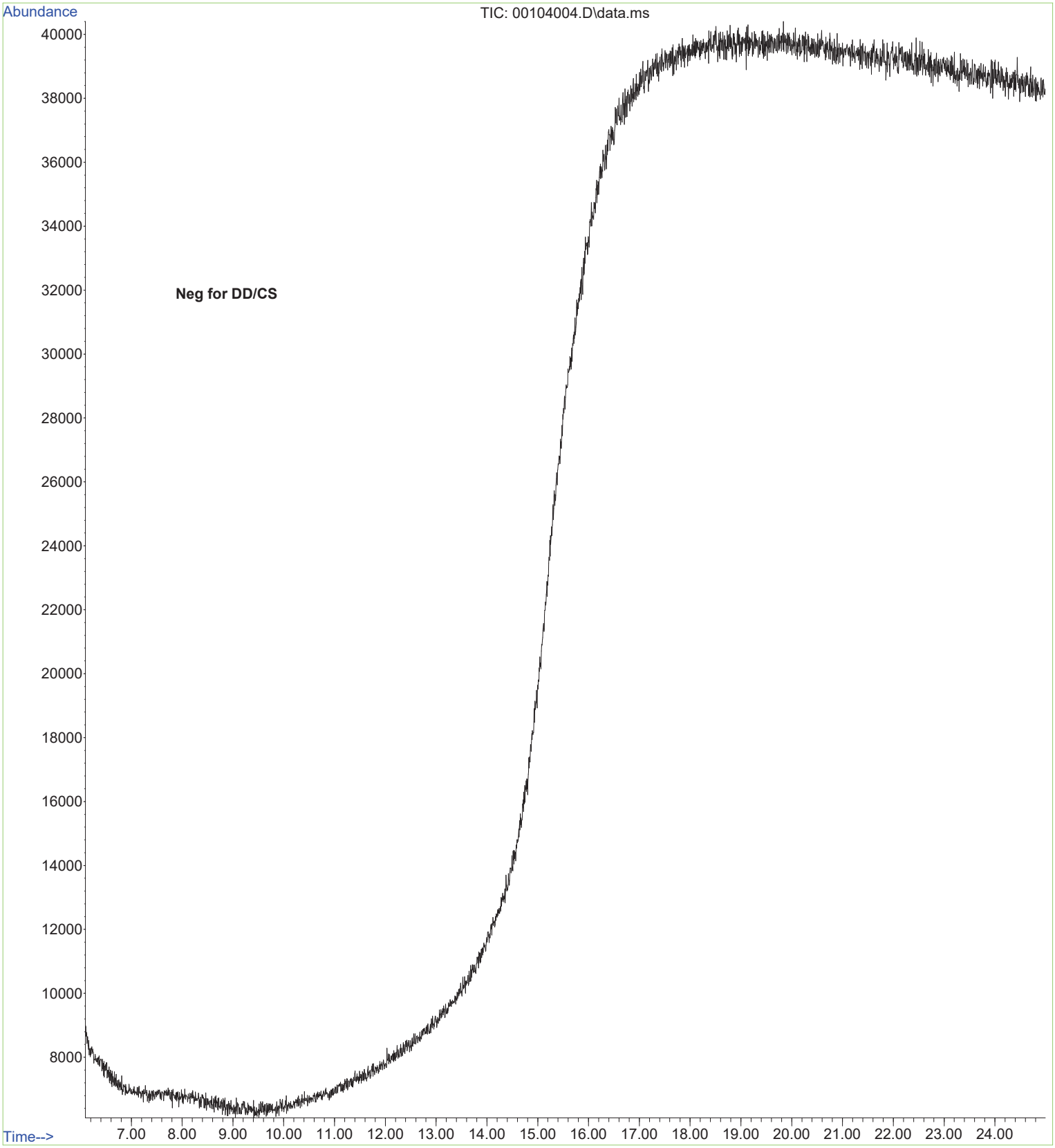


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Acquired   : 17 Feb 2025  12:03     using AcqMethod DrugTest35MS.M
Instrument :   GCMS #4
Sample Name: Cayman GC/MS mix 3 (R-24-060)                  000002669
Misc Info  : in ACN                                         000002669
Vial Number: 2
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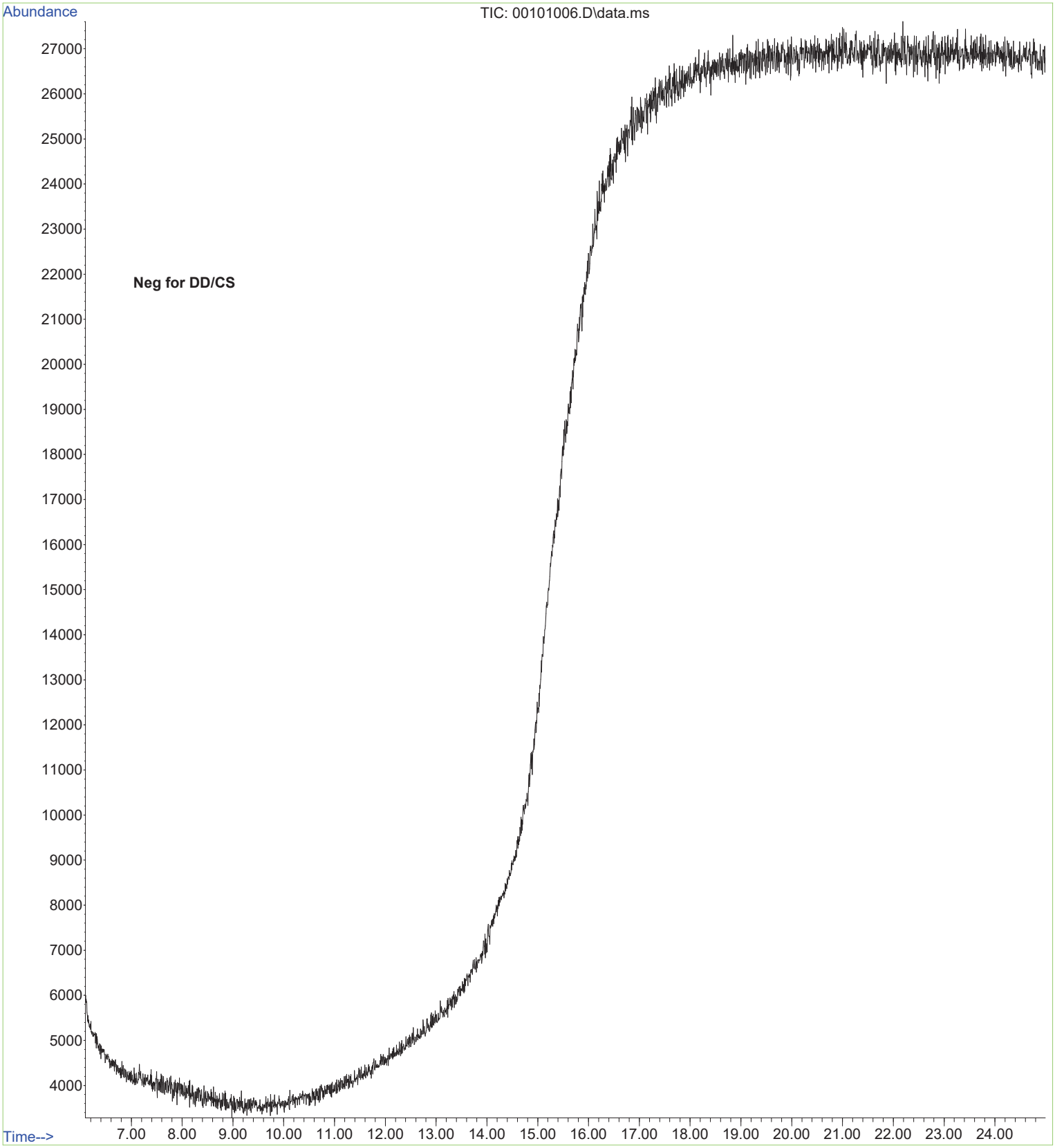




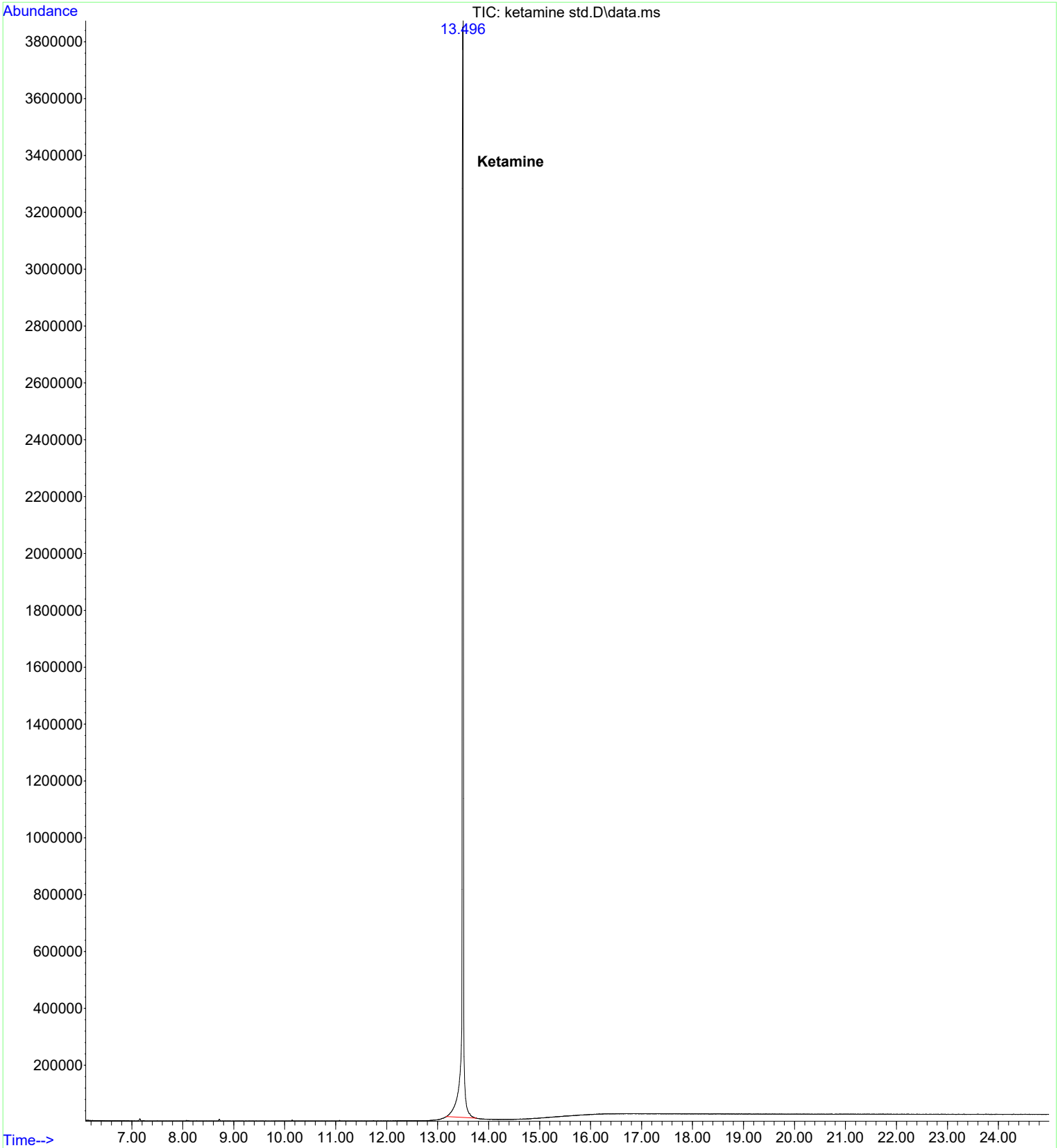
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Instrument : GCMS #4
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Misc Info : ACN 000002668
Vial Number: 1



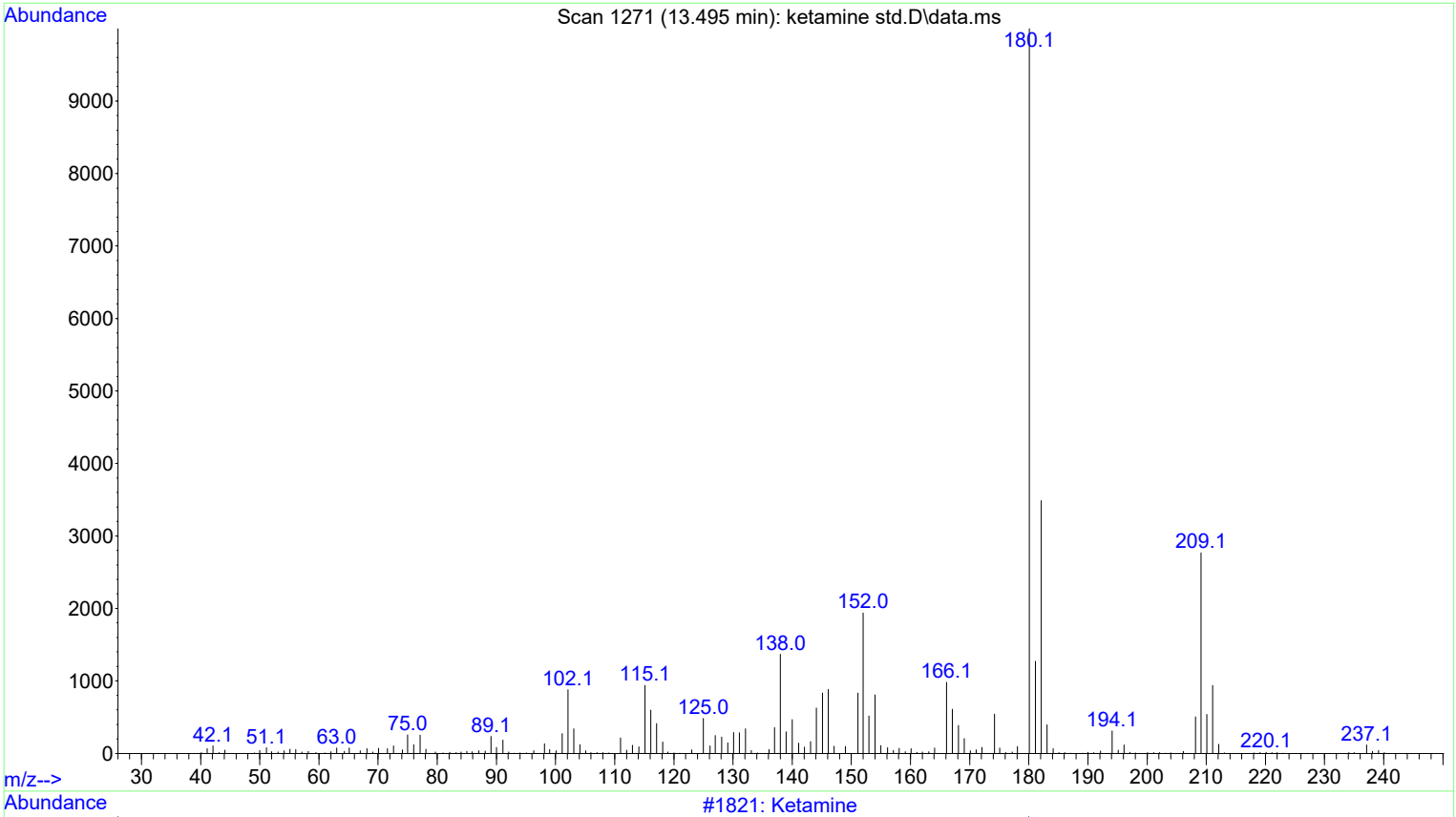
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Instrument : GCMS #4
Sample Name: Blank (C-19-0068) - Instrument ready 000002668
Misc Info : ACN 000002668
Vial Number: 1

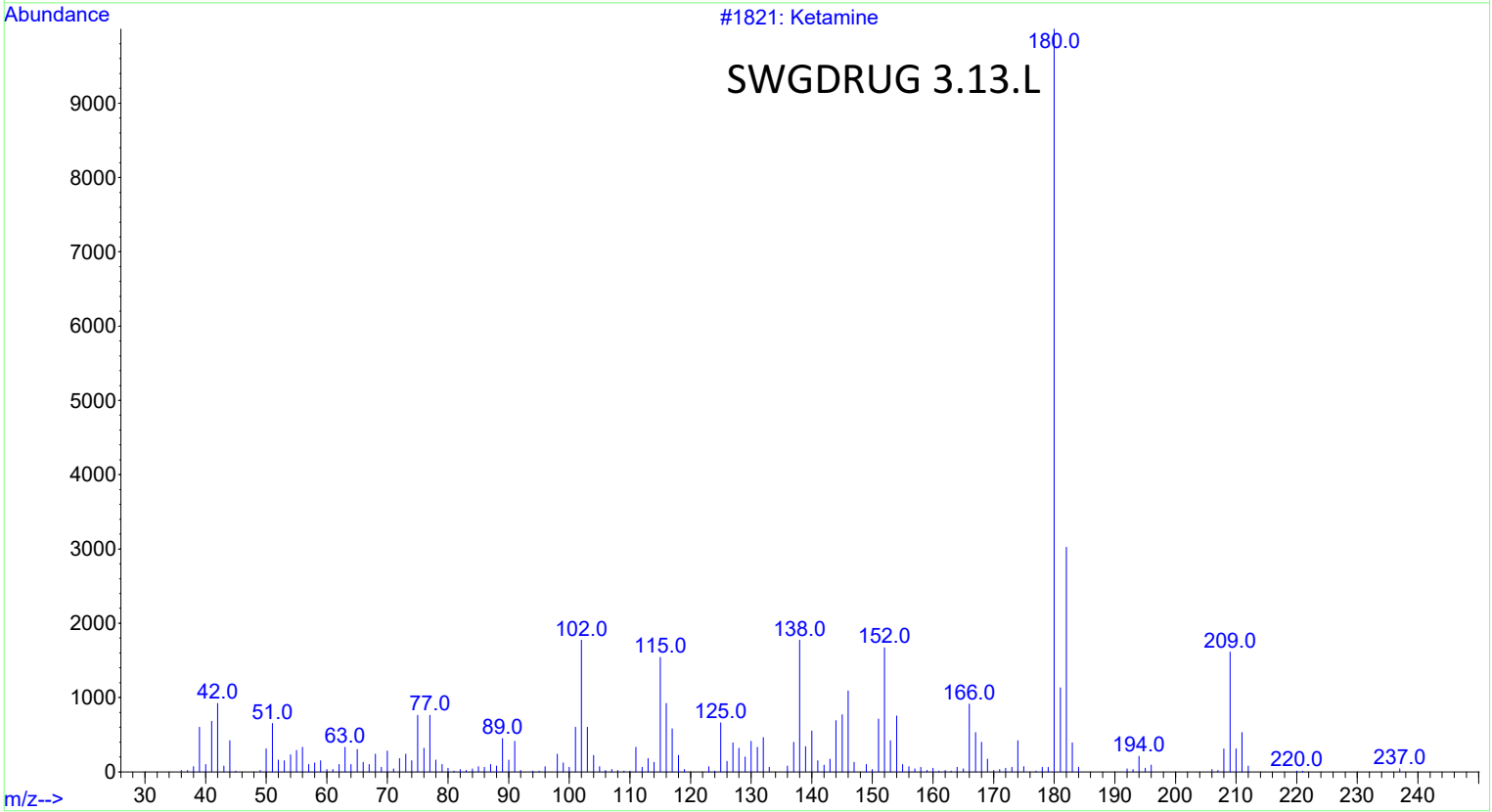


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Acquired : 17 Feb 2025 19:05 using AcqMethod DrugTest35MS.M
Instrument : GCMS #4
Sample Name: Ketamine std (S-21-027) 000001551
Misc Info : RT determination 000001551
Vial Number: 74

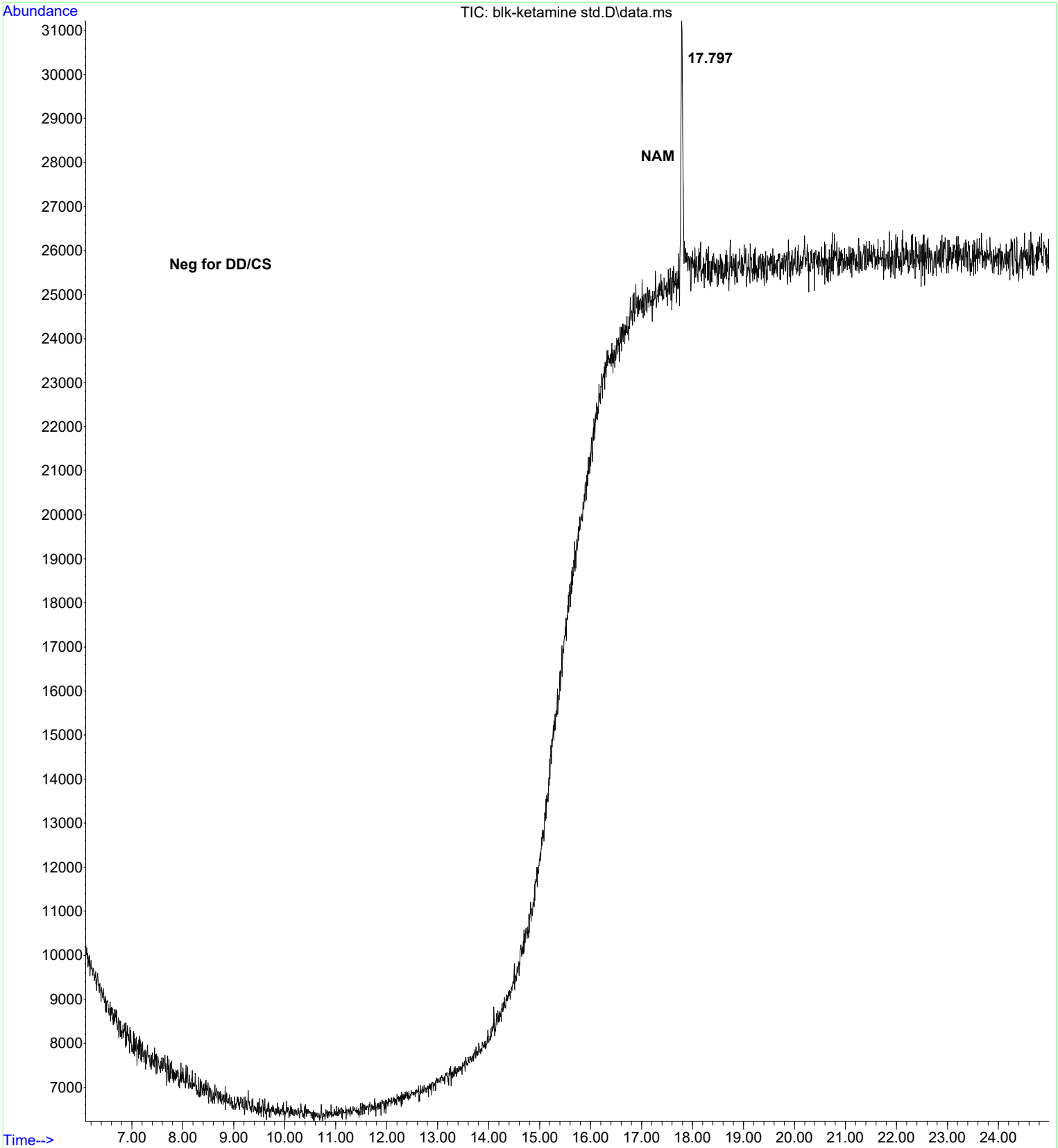


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Acquired : 17 Feb 2025 19:05 using AcqMethod DrugTest35MS.M
Instrument : GCMS #4
Sample Name: Ketamine std (S-21-027) 000001551
Misc Info : RT determination 000001551
Vial Number: 74

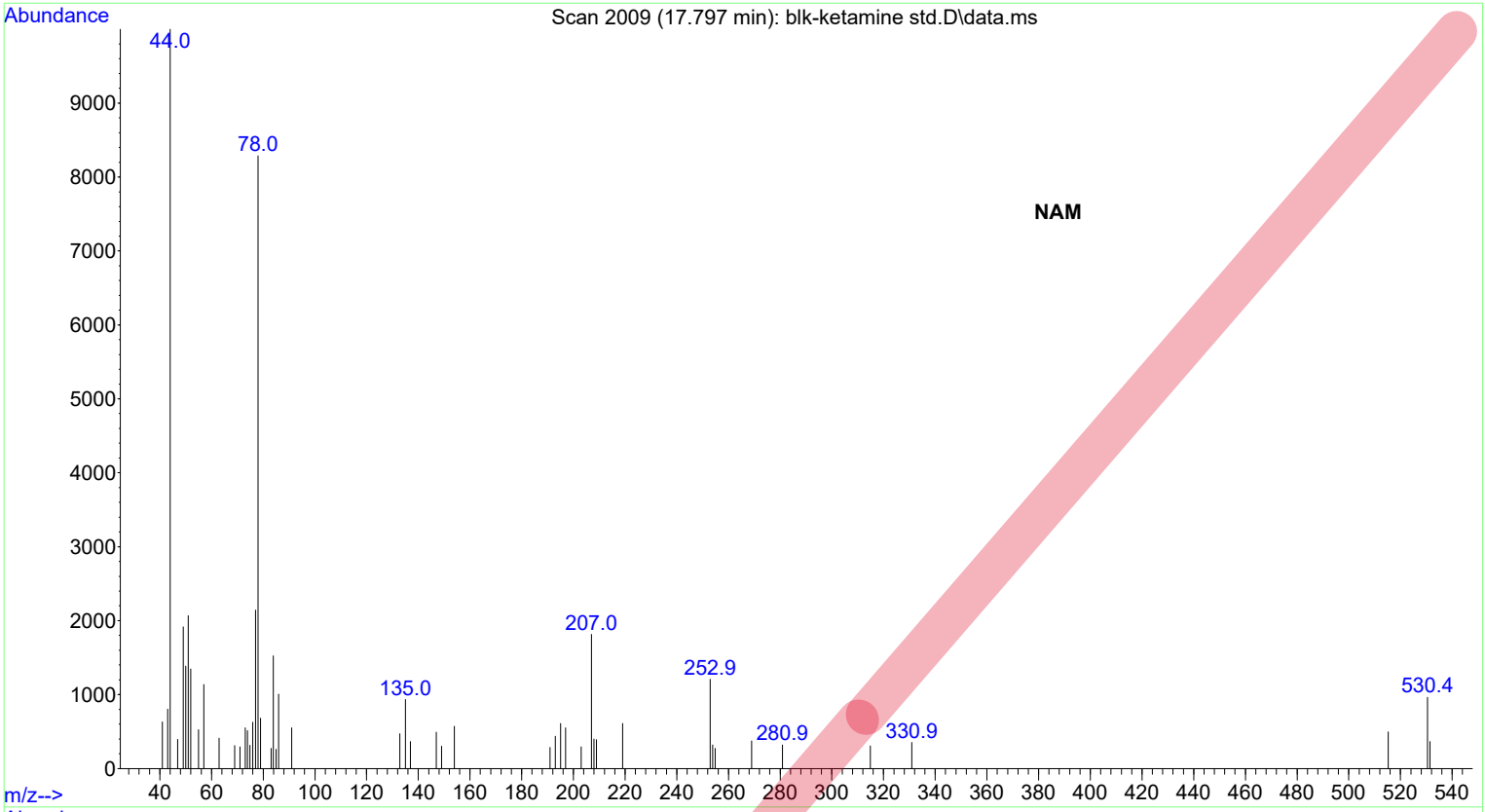


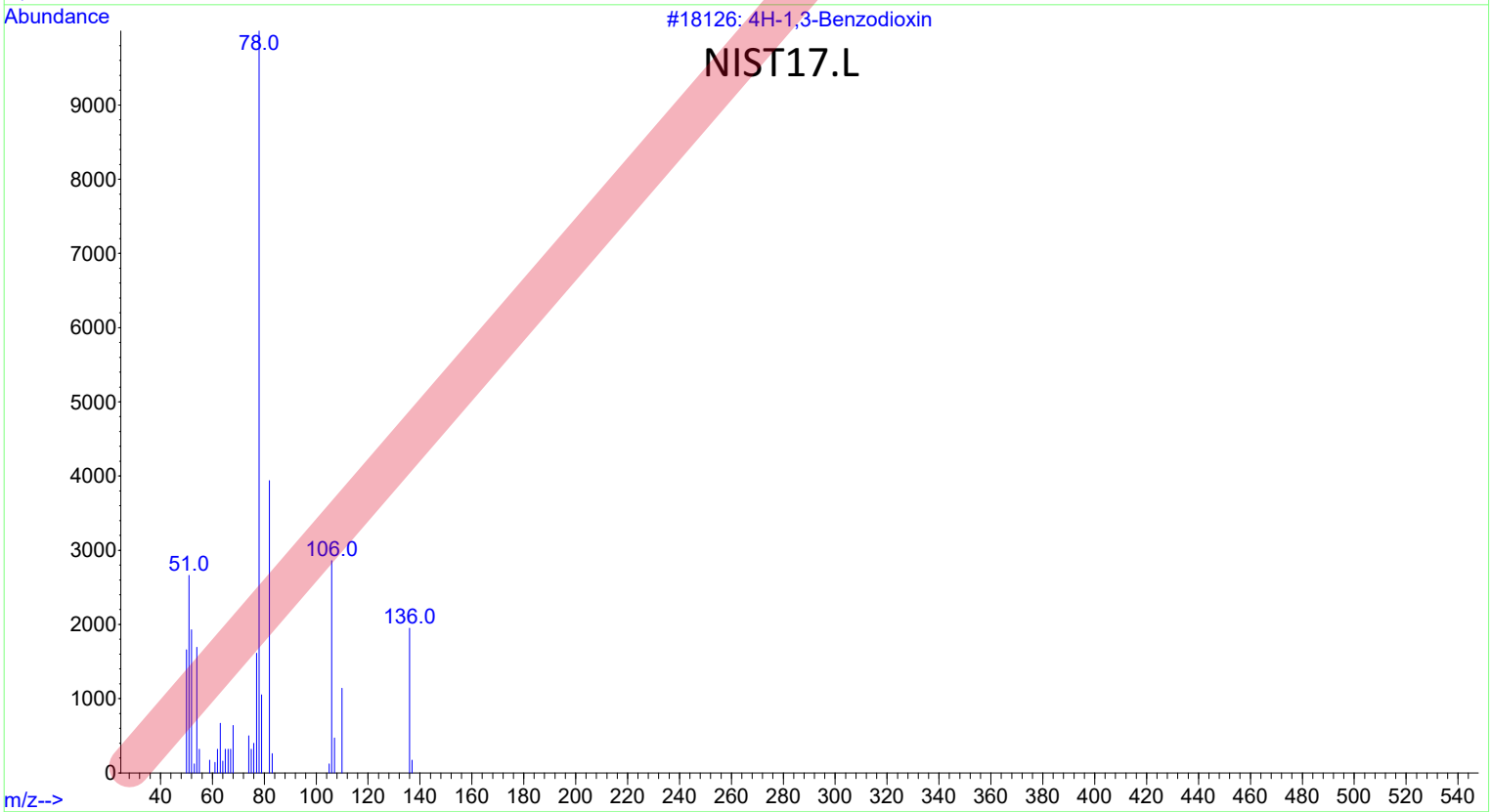


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... ne std.D
Acquired : 17 Feb 2025 18:36 using AcqMethod DrugTest35MS.M
Instrument : GCMS #4
Sample Name: blank prior to Ketamine std (S-21-027) 000002626
Misc Info : DCM (C-22-0015B) + MeOH (C-20-0050B) 000002626
Vial Number: 69

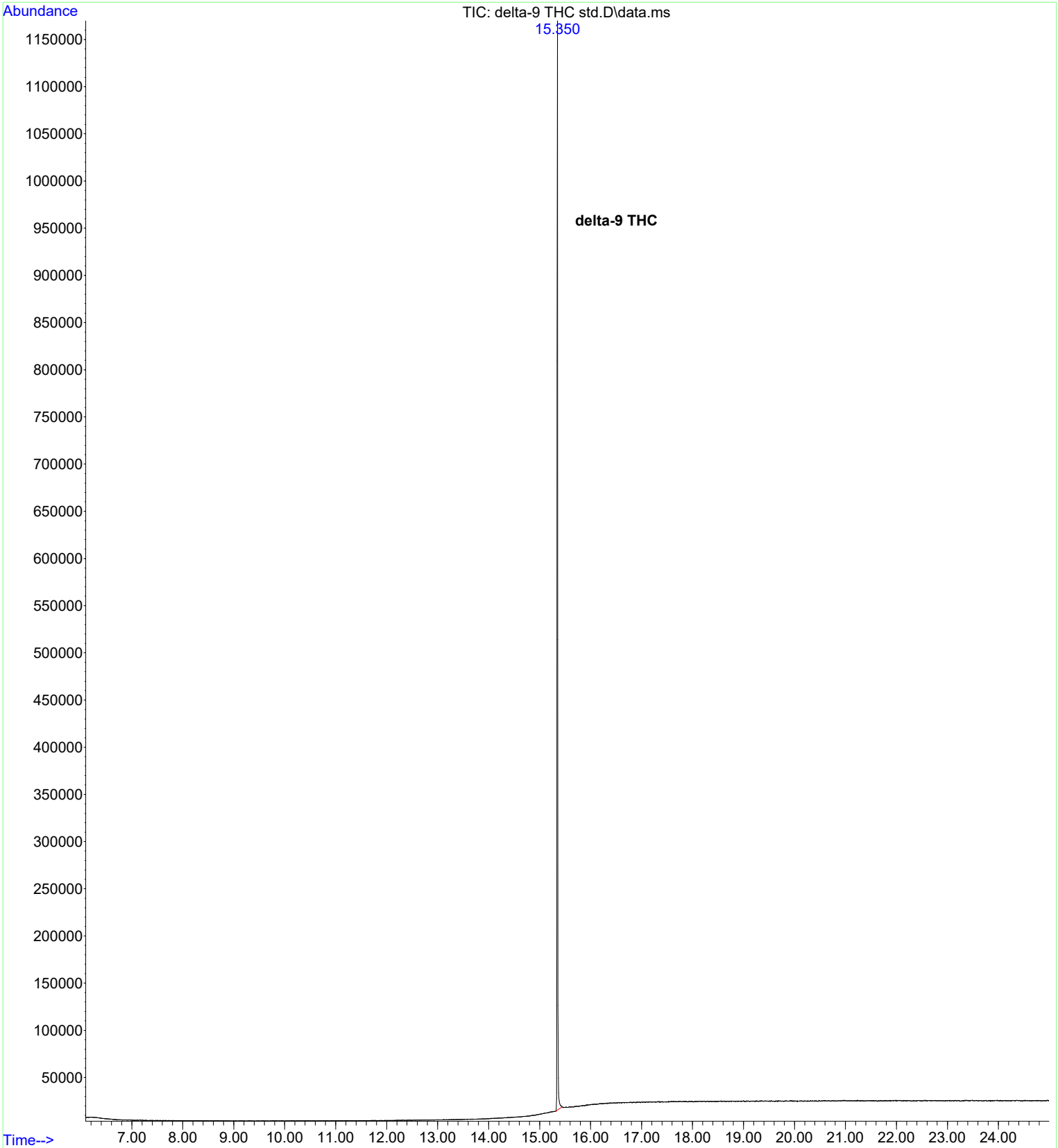


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Acquired : 17 Feb 2025 18:36 using AcqMethod DrugTest35MS.M
Instrument : GCMS #4
Sample Name: blank prior to Ketamine std (S-21-027) 000002626
Misc Info : DCM (C-22-0015B) + MeOH (C-20-0050B) 000002626
Vial Number: 69

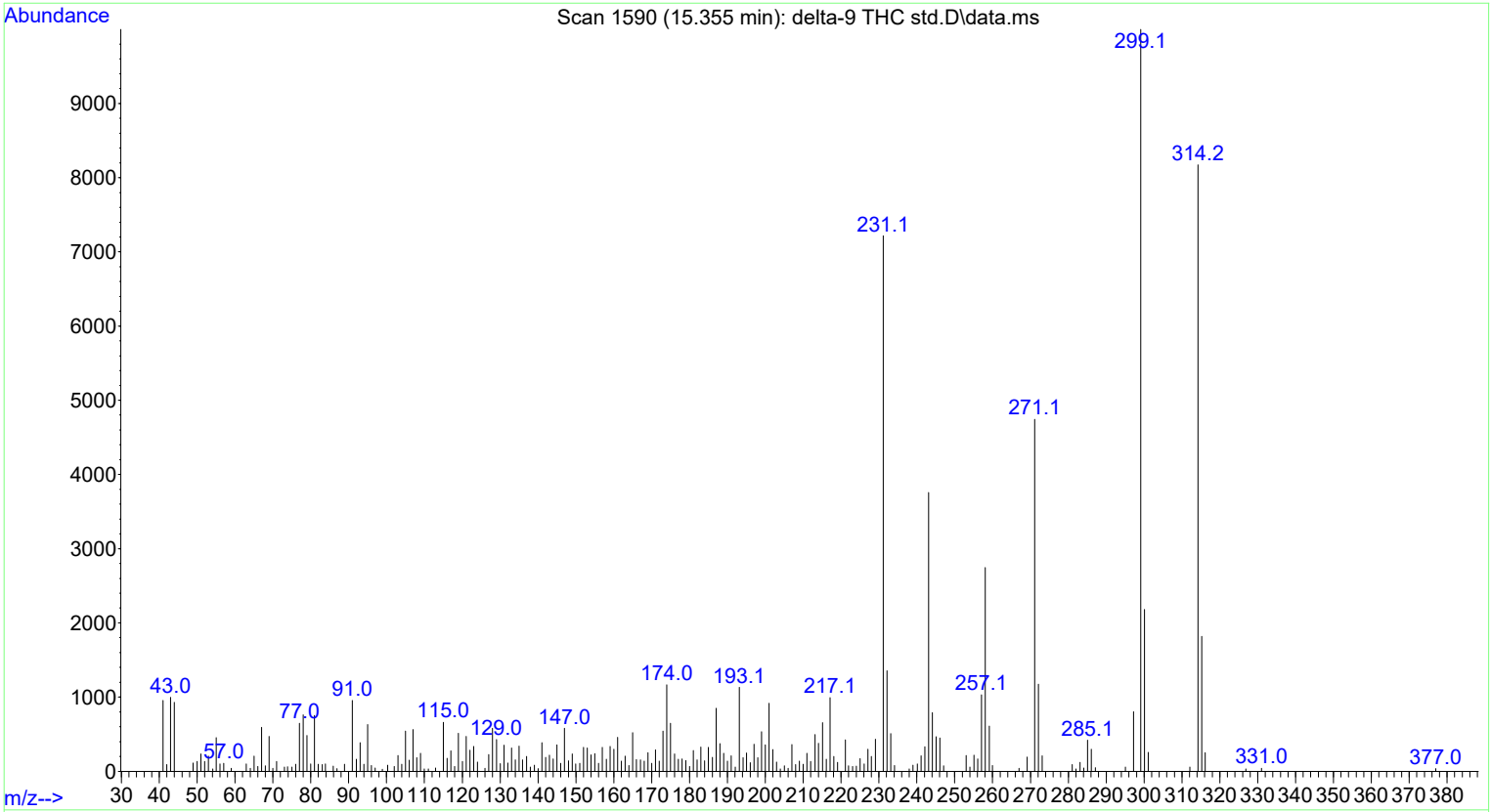


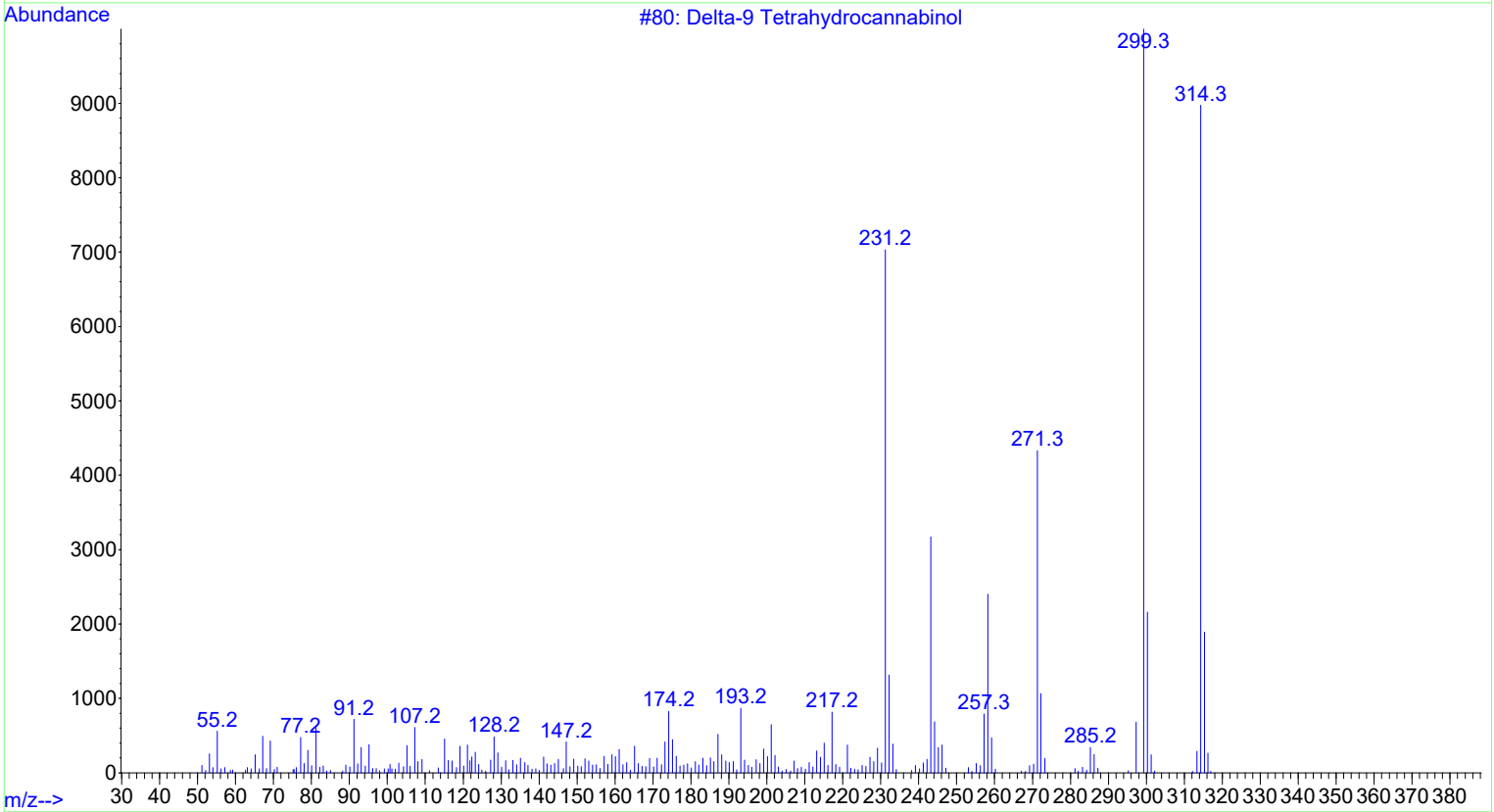


File :D:\MassHunter\GCMS\1\GCMS 4 data\2025 Data\021725\delta-9 TH
... C std.D
Acquired : 17 Feb 2025 18:00 using AcqMethod DrugTest35MS.M
Instrument : GCMS #4
Sample Name: delta-9 THC std 000002993
Misc Info : RT determination 000002993
Vial Number: 73

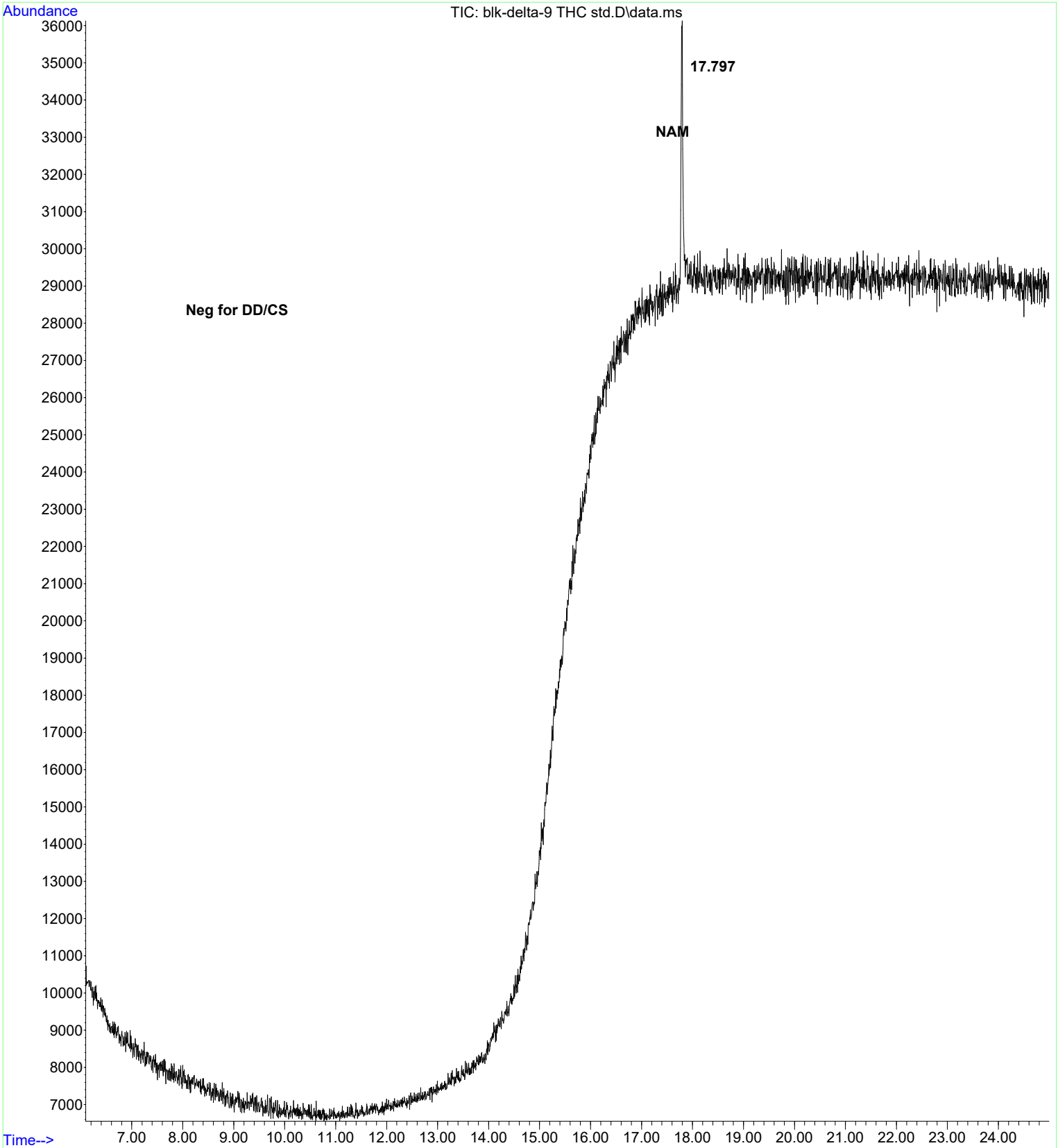


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... C std.D
Acquired : 17 Feb 2025 18:00 using AcqMethod DrugTest35MS.M
Instrument : GCMS #4
Sample Name: delta-9 THC std 000002993
Misc Info : RT determination 000002993
Vial Number: 73

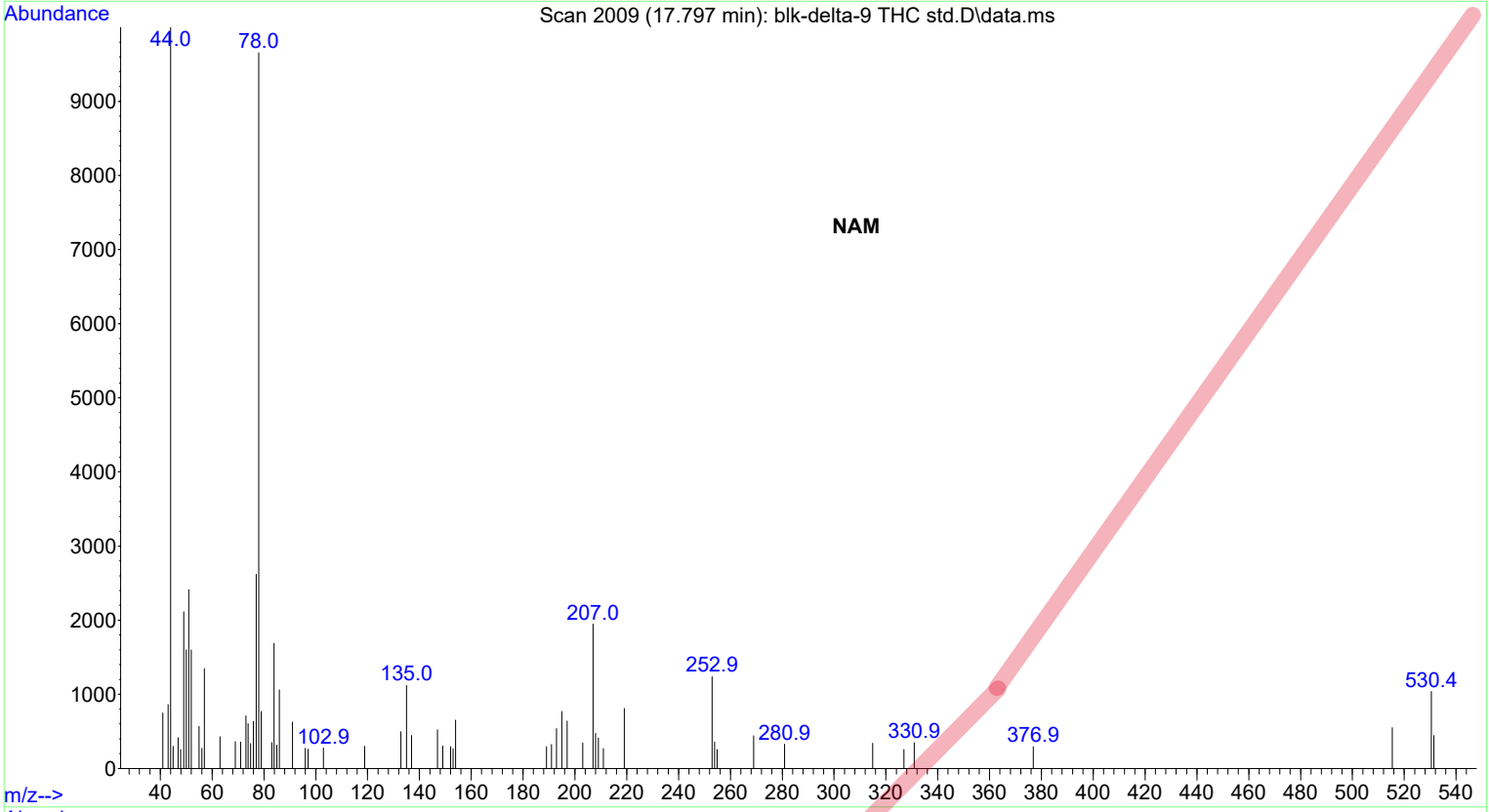


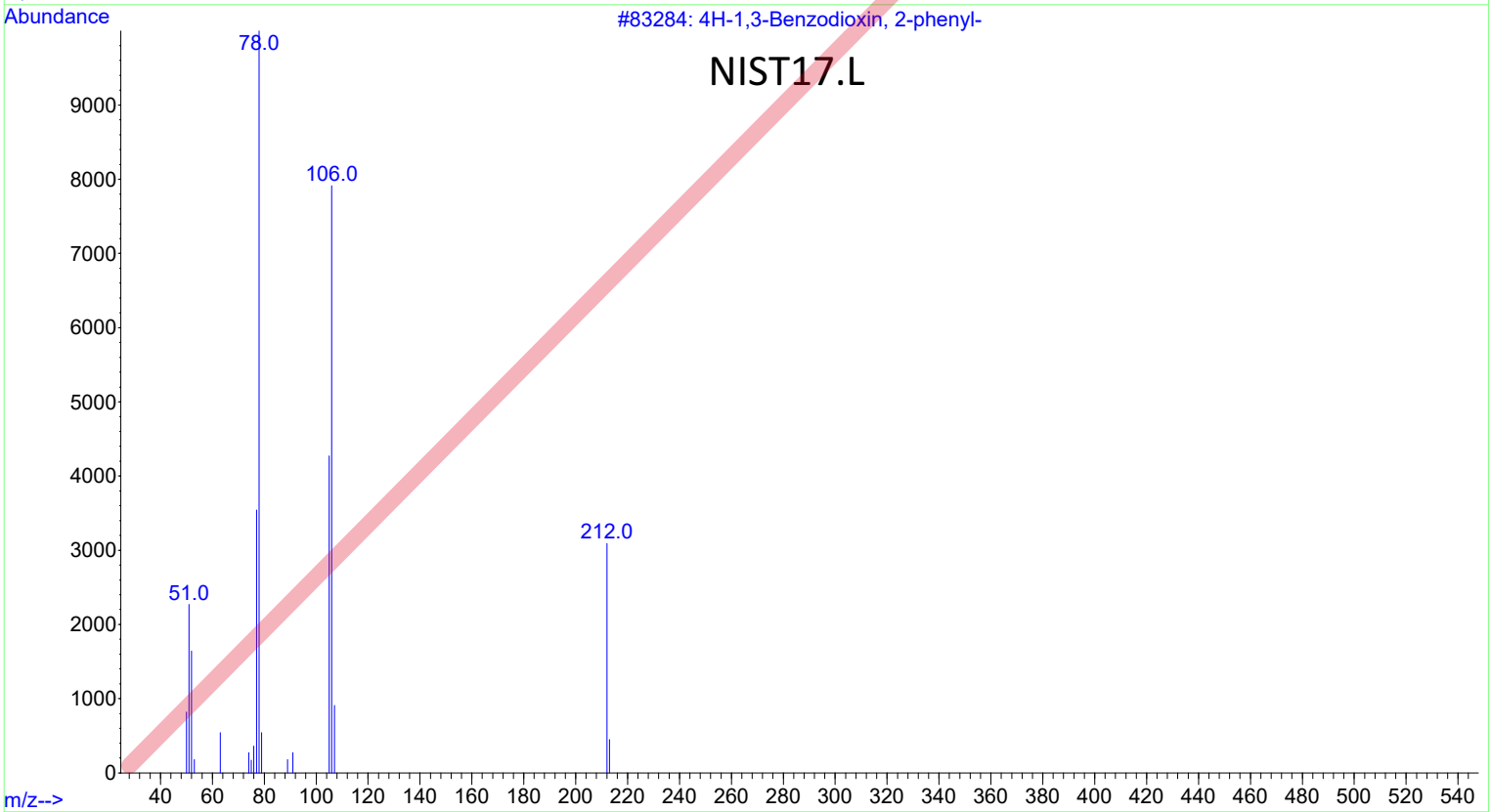


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... 9 THC std.D
Acquired : 17 Feb 2025 17:31 using AcqMethod DrugTest35MS.M
Instrument : GCMS #4
Sample Name: blank prior to delta-9 THC std (R-24-025) 000002626
Misc Info : DCM (C-22-0015B) + MeOH (C-20-0050B) 000002626
Vial Number: 69



File :D:\MassHunter\GCMS\1\GCMS 4 data\2025 Data\021725\blk-delta-
... 9 THC std.D
Acquired : 17 Feb 2025 17:31 using AcqMethod DrugTest35MS.M
Instrument : GCMS #4
Sample Name: blank prior to delta-9 THC std (R-24-025) 000002626
Misc Info : DCM (C-22-0015B) + MeOH (C-20-0050B) 000002626
Vial Number: 69

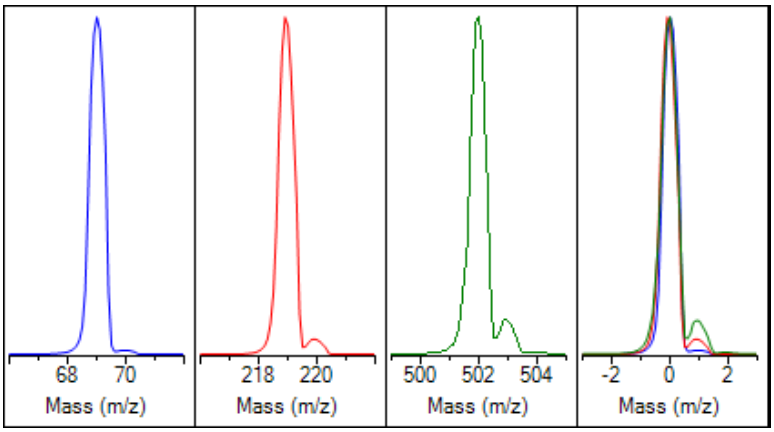




High Efficiency Source Autotune - 5977

Tune timestamp: 2/24/2025 9:57 AM (UTC-06:00) GCMS #4

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



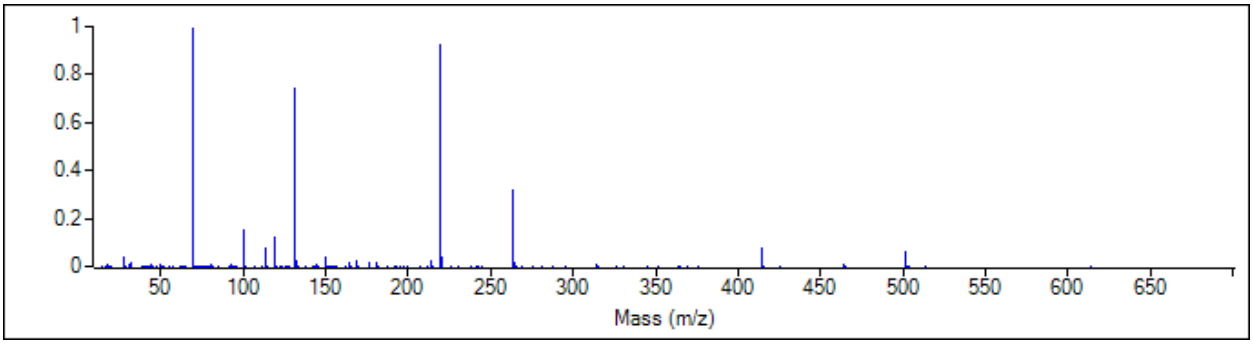
Ion Polarity	Pos	PFTBA	Open
Emission	100.0	Mass Gain	86
Electron Energy	70.0	Mass Offset	-27
Filament	1	Amu Gain	2430
Repeller	12.96	Amu Offset	136.81
Ion Focus	149.6	Width219	0.001
Entrance Lens	7.5	DC Polarity	Pos
Ent Lens Offset	14.06	HED Enable	On
Ion Body	5.00	EM Volts	2216.4
Post Extractor 1	11	Extractor Lens	14.10
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	464,251	100.0%	0.62
218.90	435,667	93.8%	0.64
502.00	31,984	6.9%	0.63

Temperatures and Pressures

MS Source	230	Turbo Speed	100.0
MS Quad	150	Hi Vac	7.00e-06

Low	High	Step	Speed	Threshold	Peaks	Base	Abundance	Total Ion
10.00	701.00	0.10	3	100	132	69.00	440,960	1,761,890



Target m/z	Actual m/z	Abund	Rel Abund	Iso m/z	Iso Abund	Iso Ratio
69.00	69.00	440,960	100.0%	70.00	5,214	1.2%
219.00	219.00	409,152	92.8%	220.00	18,672	4.6%
502.00	502.00	28,592	6.5%	503.00	2,812	9.8%

Air/Water Check: H20 ~1.1% N2 ~4.4% O2 ~1.6% CO2 ~0.8% N2/H20 ~412.1%

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 10383.453

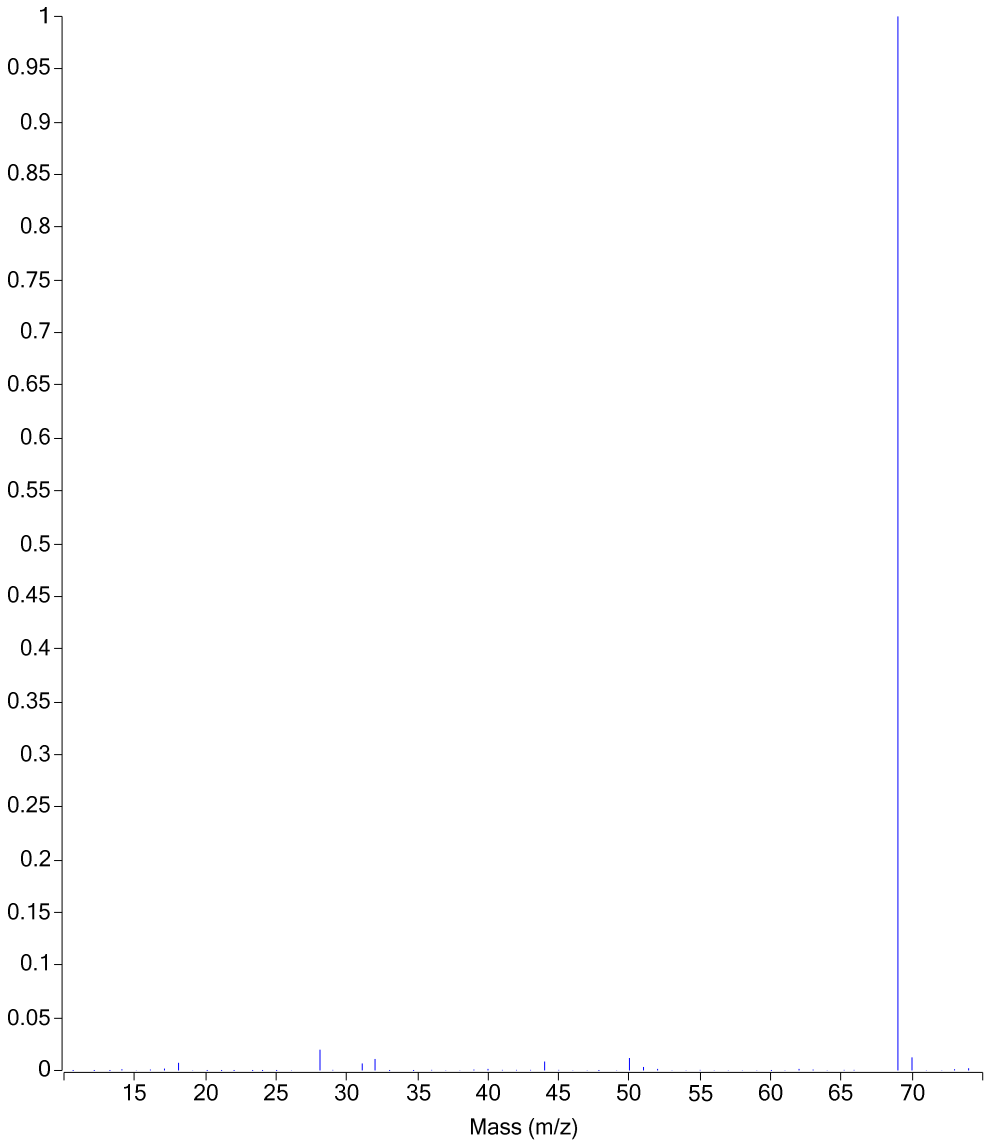
Repeller maximum 35 volts using ion 219; Gain Factor 0.1038

Mass Gain Values(Scan Speed): 96(3) 100(2) 107(1) 123(0) 175(FS1) 175(FS2) 131(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	14.1	14.1	14.1	14.1	14.1	14.1	14.1

597x Air and Water Check

Instrument: GCMS #4
Mon Feb 24 09:46:58 2025 D:\MassHunter\GCMS\1\5977\



Current Params used: HES_Atune.u

Relative abundances:

18/69 =	0.72	Water%	(counts=5353)
28/69 =	1.98	Nitrogen%	(counts=14741)
32/69 =	1.10	Oxygen%	(counts=8176)
44/69 =	0.85	Carbon Dioxide%	(counts=6343)
28/18 =	275.38	Nitrogen/Water%	

Instrument Name : GCMS #4
DC Polarity : Positive
Filament 1
Current Vacuum status :High Vacuum: 5.4E-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%)	1.19	OK
Ratio of mass 220 to mass 219(3.2 - 5.4%)	4.55	OK
Ratio of mass 503 to mass 502(7.9 - 12.3%)	10.17	OK
Ratio of 219 to 69 should be > 40% and is	91.21	OK
Ratio of 502 to 69 should be > 2.4% and is	7.26	OK
Mass 69 Precursor (<= 3%)	0.76	OK
Mass 219 Precursor (<= 6%)	1.74	OK
Mass 502 Precursor (<= 12%)	3.48	OK

597x Air and Water Check
Mon Feb 24 10:15:46 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%)	0.56	OK
Ratio of 28 to 69 (<10%)	4.44	OK
Electron Multiplier Voltage	2216	OK

Tune portion of System Verification passed.

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

02/24/2025 - 03/02/2025

[X] **Tune:** DS/DN **02/24/2025 - HES Autotune**

Standard	Standard #	Method	Retention Time	1% Window	
Methamphetamine	R-24-060	DrugTest35MS	8.044	7.963	8.124
Cocaine	R-24-060	DrugTest35MS	14.692	14.545	14.838
Heroin	R-24-060	DrugTest35MS	16.434	16.269	16.598
Fentanyl	R-24-060	DrugTest35MS	16.511	16.345	16.676
Alprazolam	R-24-060	DrugTest35MS	18.840	18.651	19.028

Brazoria County Crime Lab Area Percent Report

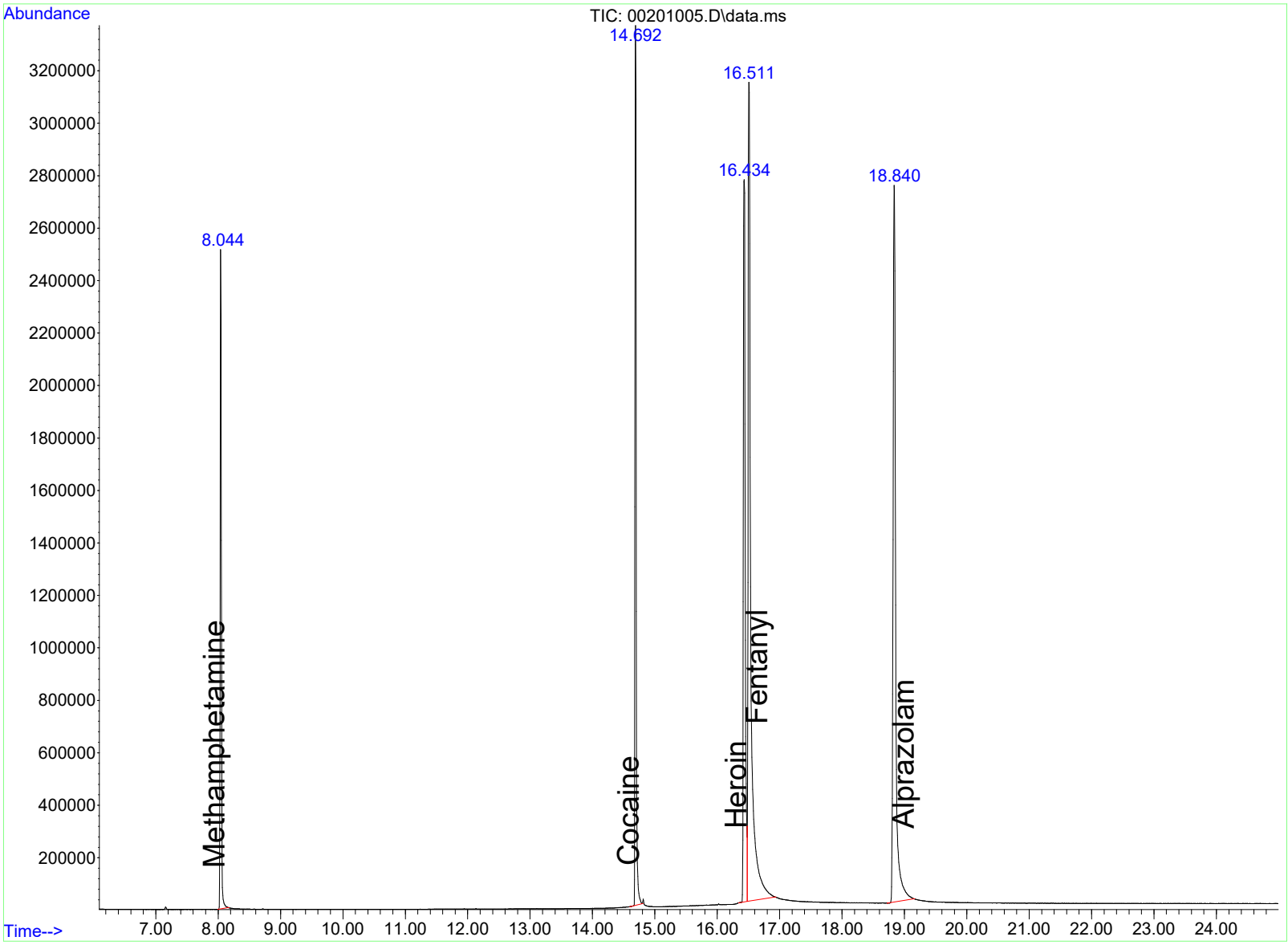
Data File: D:\MassHunter\GCMS\1\GCMS 4 data\Standards\Weekly Check Mix\2025 Data\022425\00201005.D
Method : D:\MassHunter\GCMS\1\methods\DrugTest35MS.M
Operator : AGILENT 4
Acq On : 24 Feb 2025 12:11
Sample : Cayman GC/MS mix 3 (R-24-060)
Misc : in ACN
ALS Vial : 2
ExpBcode : 000002669
ActBcode : 000002669

Signal : TIC: 00201005.D\data.ms

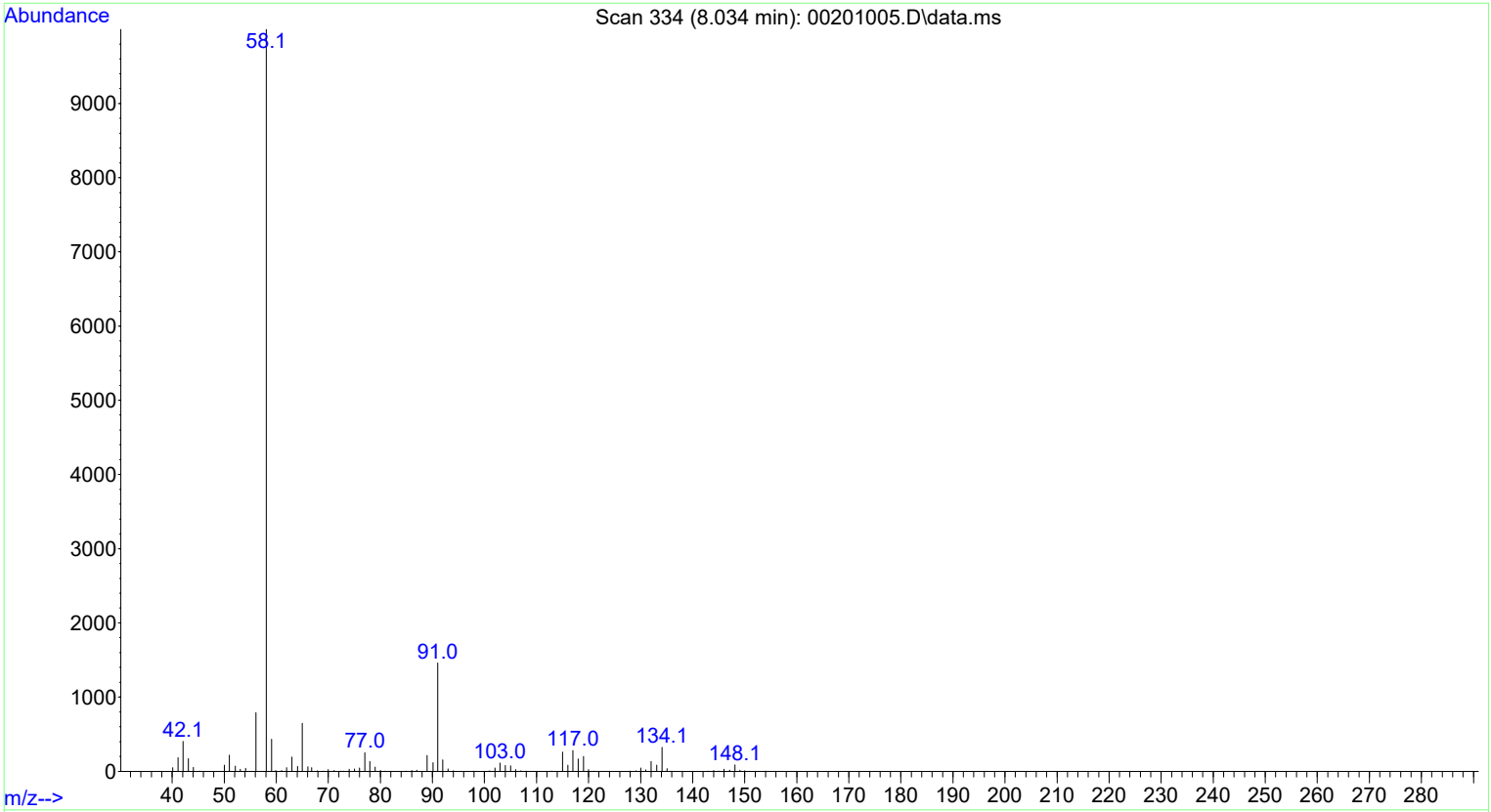
peak #	R.T. min	first scan	max scan	last scan	PK TY	peak height	corr. area	corr. % max.	% of total
1	8.044	328	336	356	BB	2463694	34991697	35.72%	10.992%
2	14.692	1460	1476	1494	BV	3339577	47869054	48.86%	15.038%
3	16.434	1760	1775	1783	BV 3	2755266	58767249	59.98%	18.461%
4	16.511	1783	1788	1860	VB	3120382	97972933	100.00%	30.778%
5	18.840	2168	2188	2242	BB 2	2733818	78724894	80.35%	24.731%

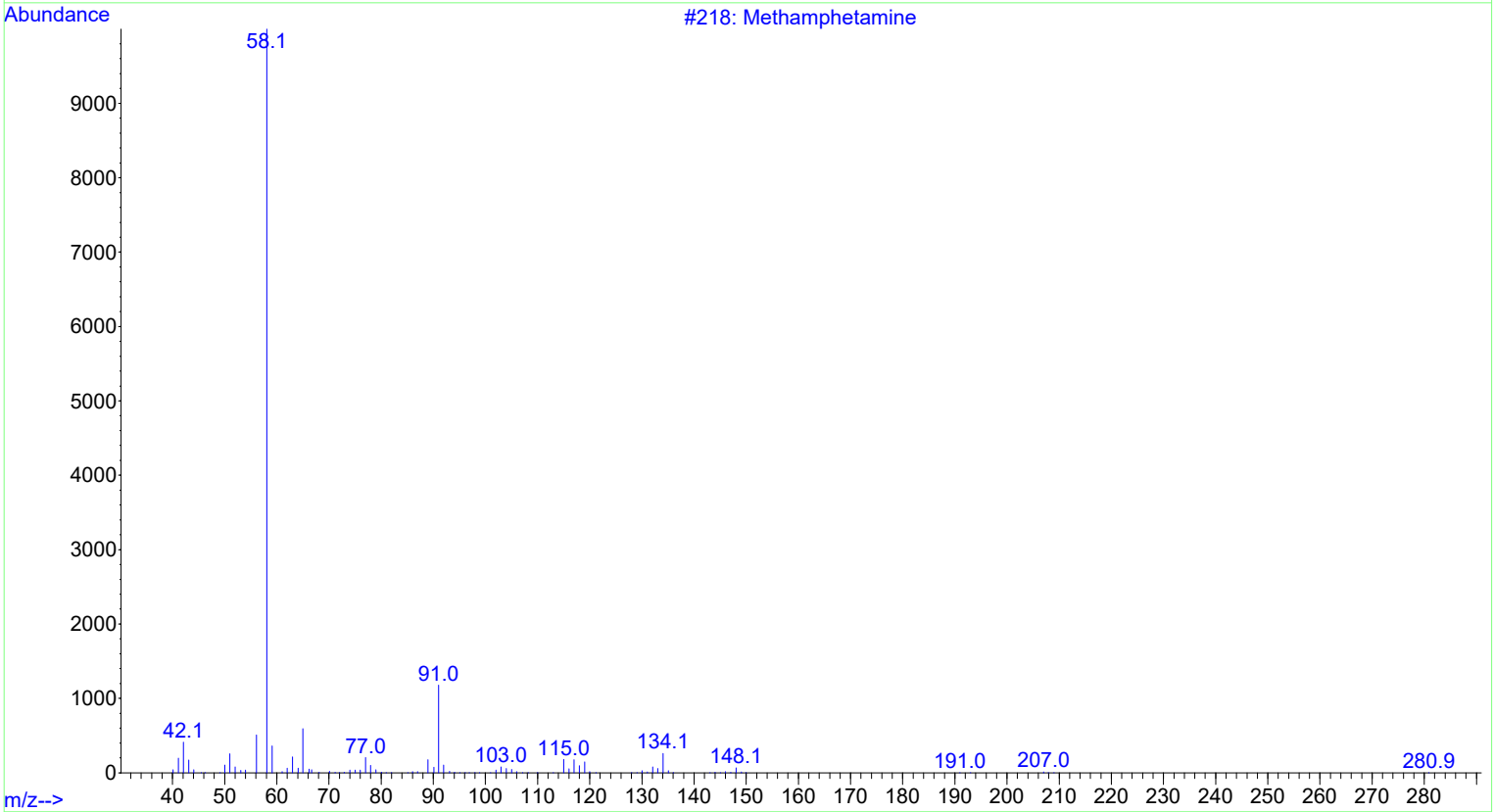
Sum of corrected areas: 318325827

DrugTest35MS.M Mon Feb 24 14:57:42 2025 DRUGS

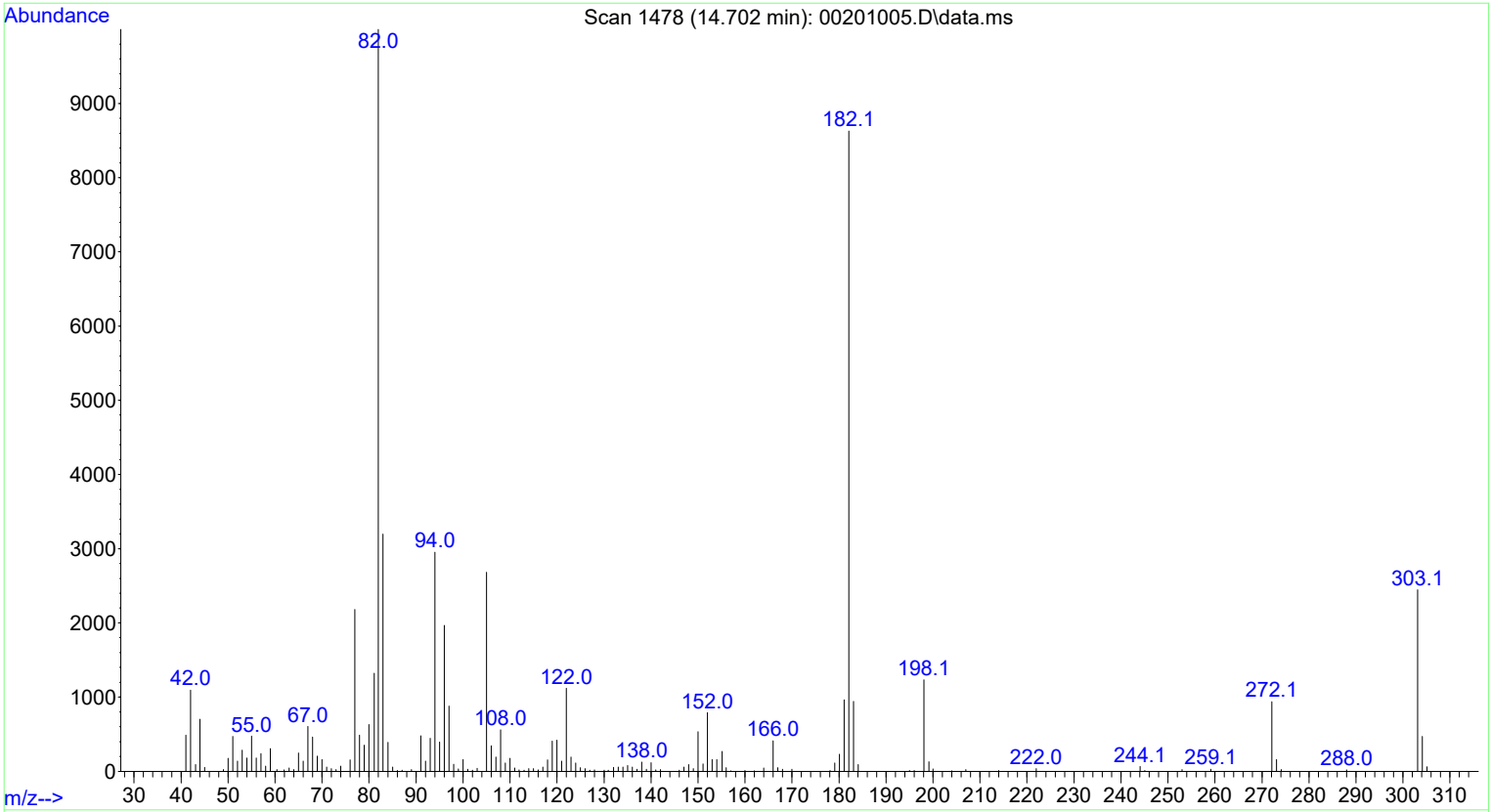


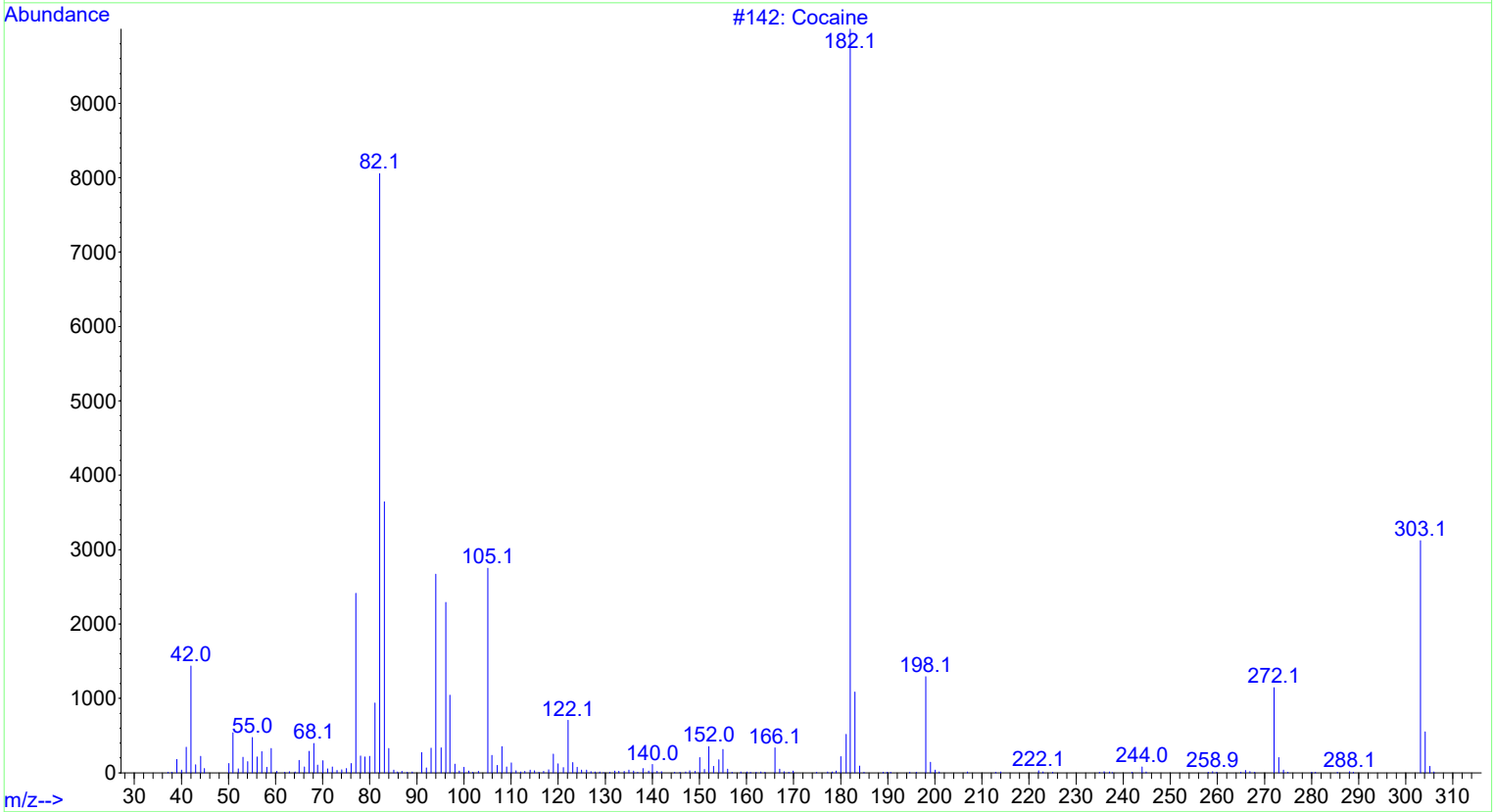
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... 2025 Data\022425\00201005.D
Acquired : 24 Feb 2025 12:11 using AcqMethod DrugTest35MS.M
Instrument : GCMS #4
Sample Name: Cayman GC/MS mix 3 (R-24-060) 000002669
Misc Info : in ACN 000002669
Vial Number: 2



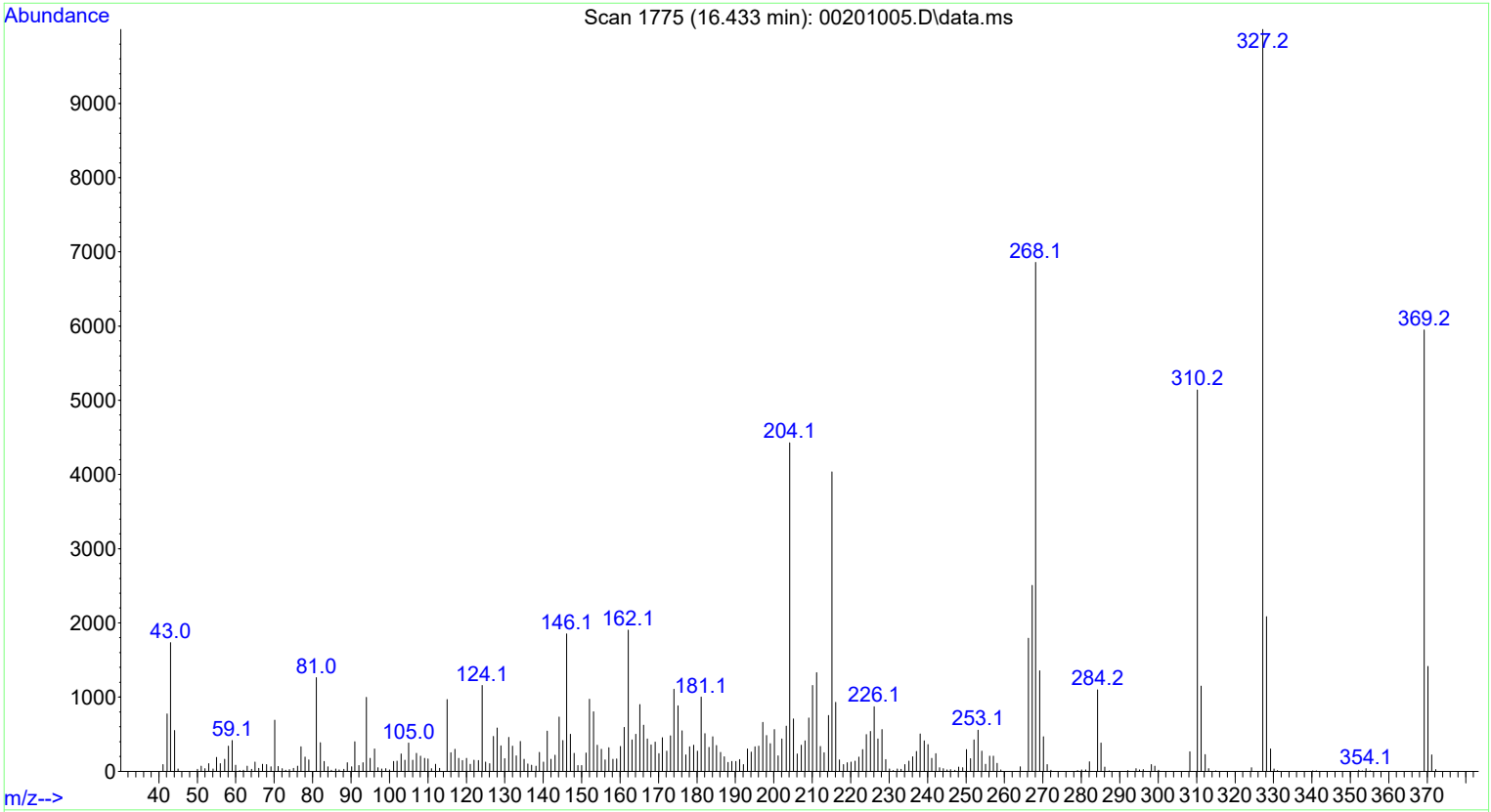


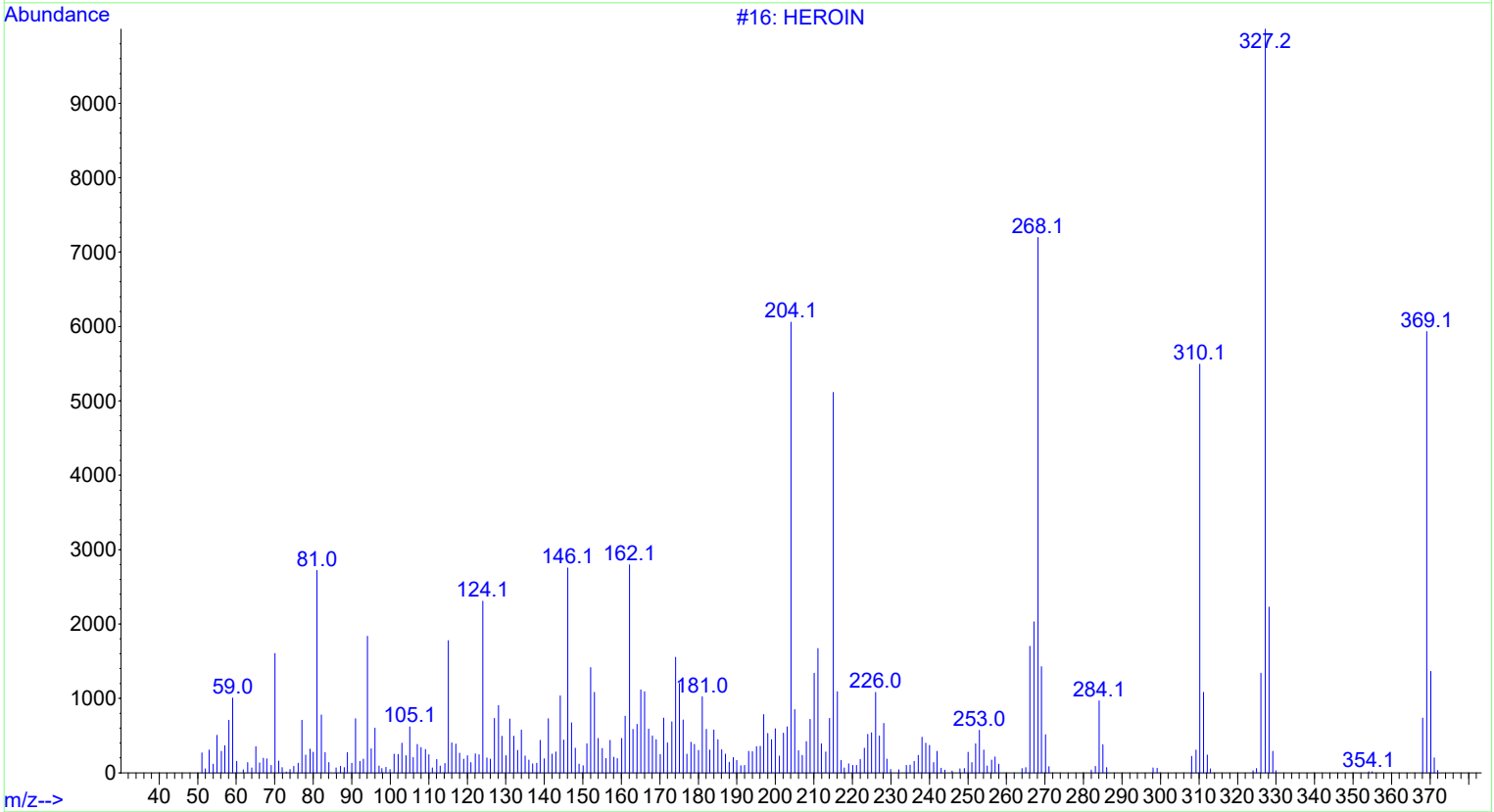
File :D:\MassHunter\GCMS\1\GCMS 4 data\Standards\Weekly Check Mix\
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Acquired : 24 Feb 2025 12:11 using AcqMethod DrugTest35MS.M
Instrument : GCMS #4
Sample Name: Cayman GC/MS mix 3 (R-24-060) 000002669
Misc Info : in ACN 000002669
Vial Number: 2



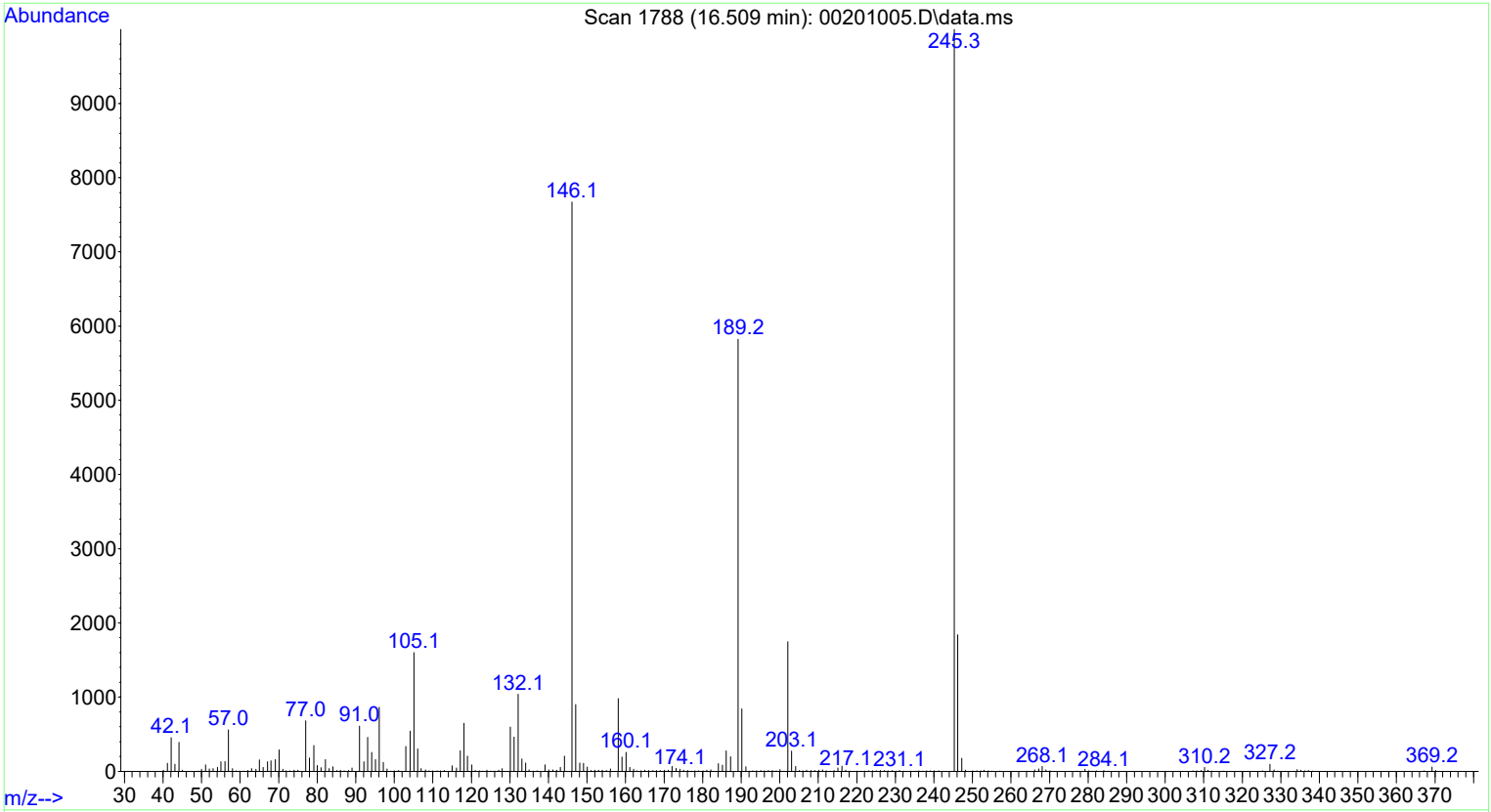


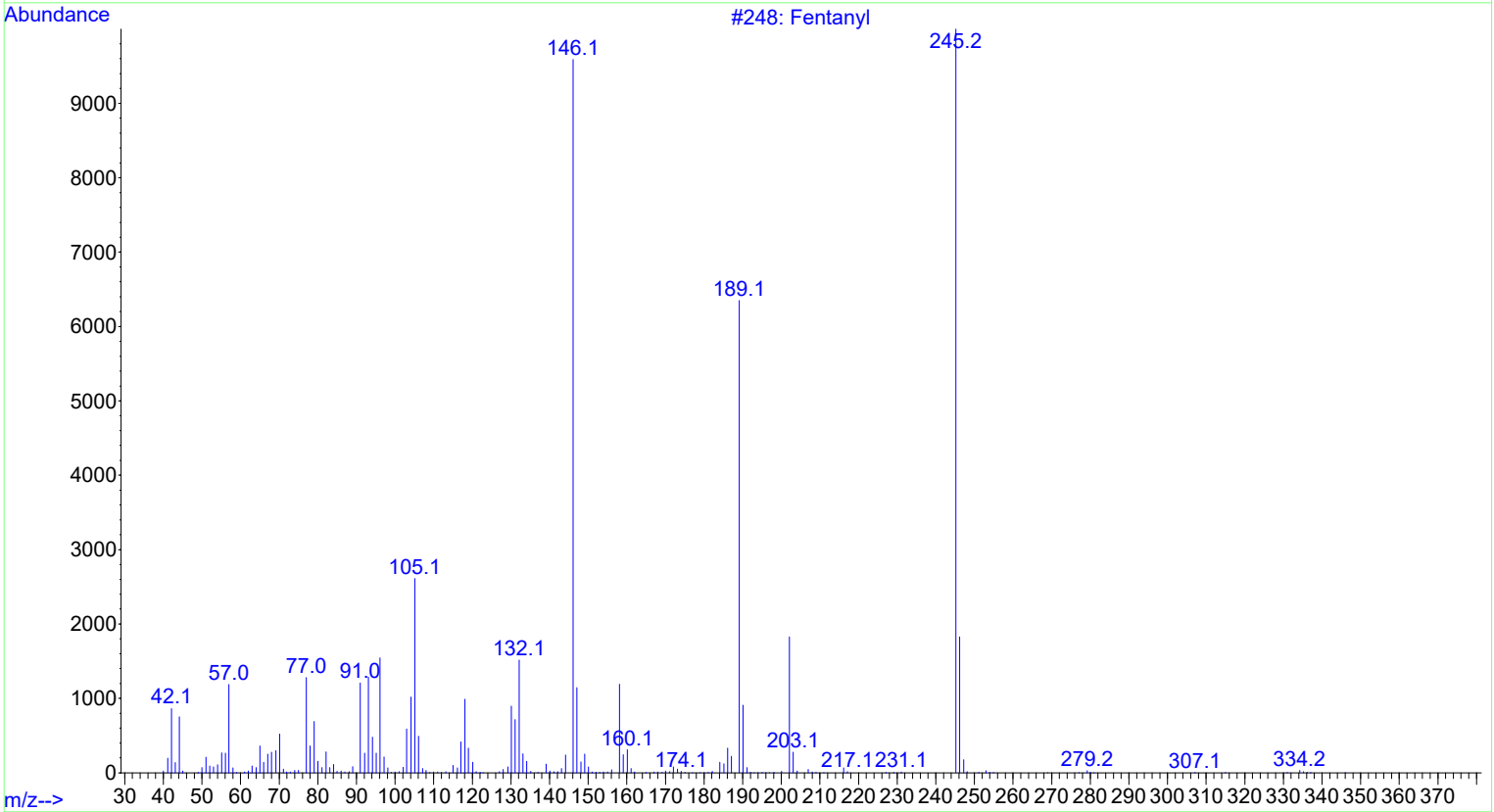
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Instrument : GCMS #4
Sample Name: Cayman GC/MS mix 3 (R-24-060) 000002669
Misc Info : in ACN 000002669
Vial Number: 2



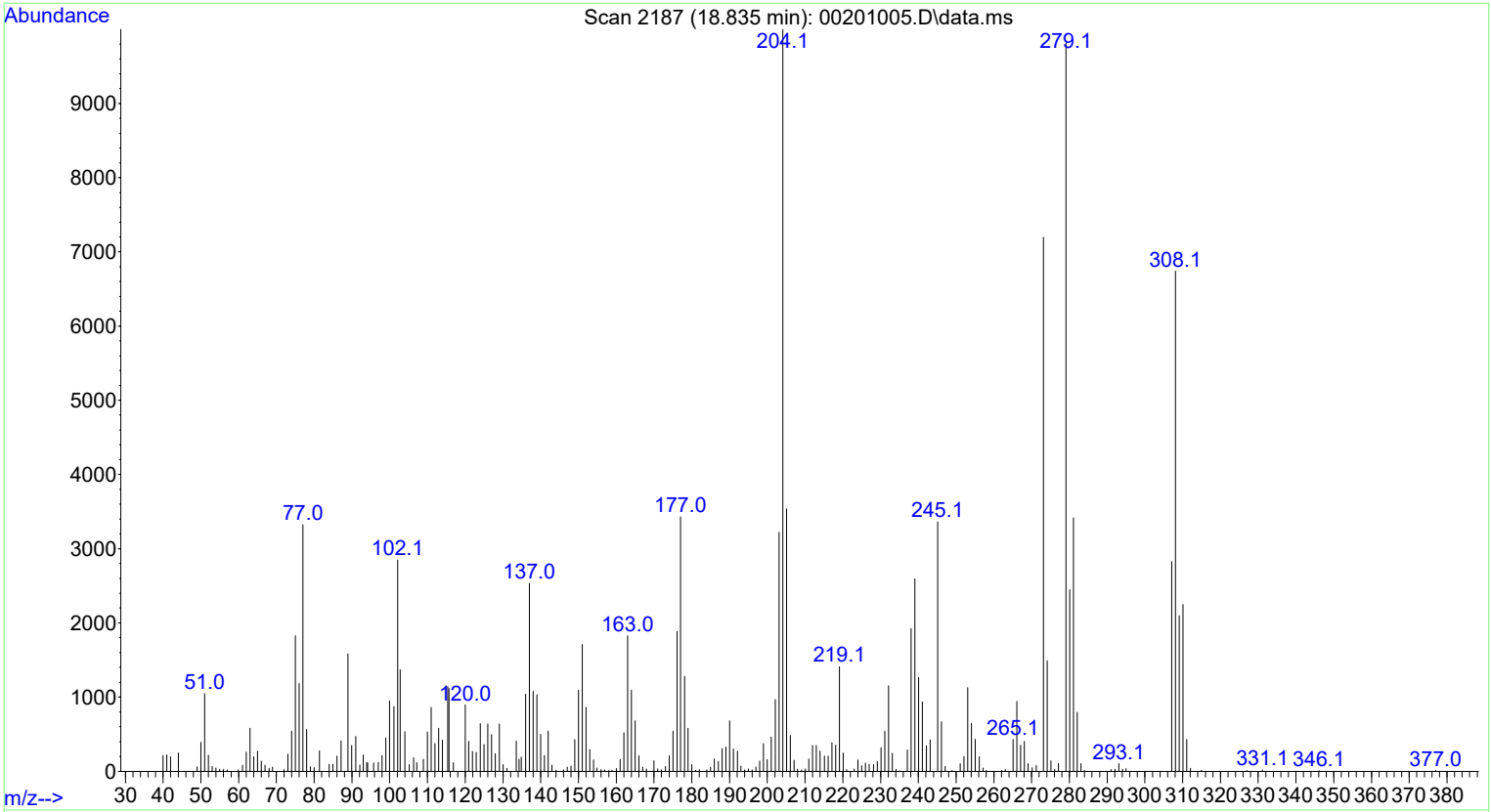


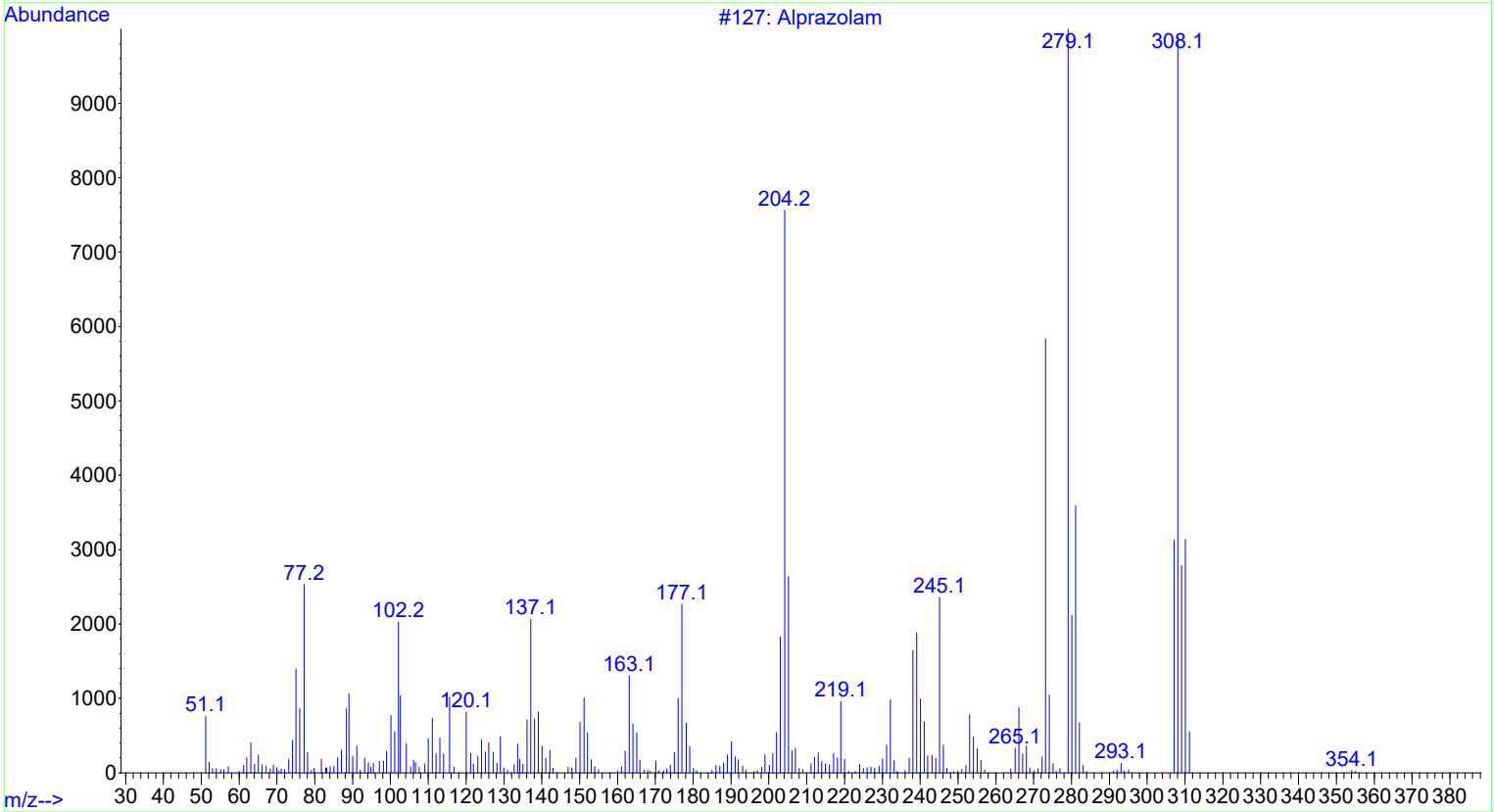
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Acquired : 24 Feb 2025 12:11 using AcqMethod DrugTest35MS.M
Instrument : GCMS #4
Sample Name: Cayman GC/MS mix 3 (R-24-060) 000002669
Misc Info : in ACN 000002669
Vial Number: 2



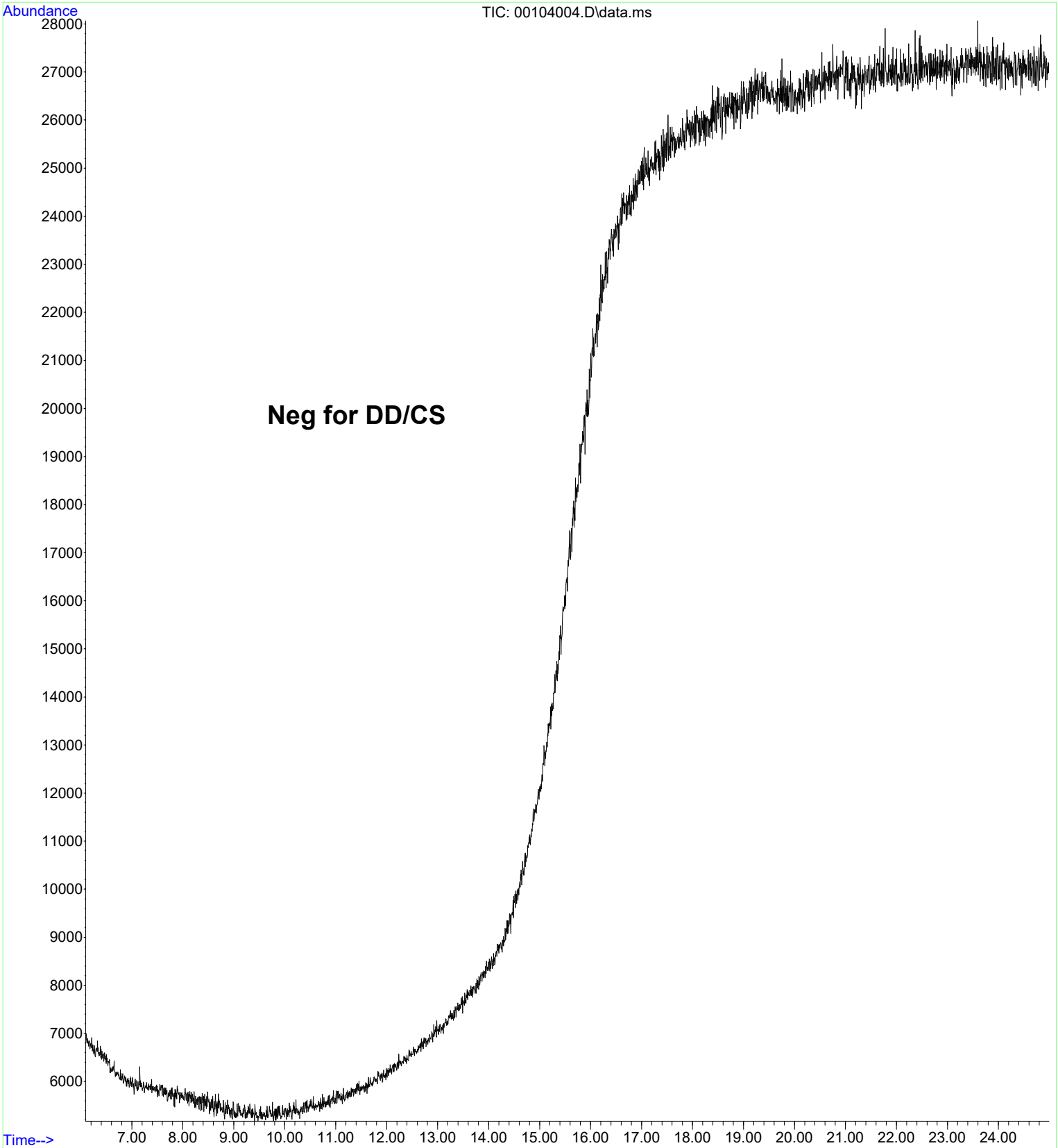


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Acquired : 24 Feb 2025 12:11 using AcqMethod DrugTest35MS.M
Instrument : GCMS #4
Sample Name: Cayman GC/MS mix 3 (R-24-060) 000002669
Misc Info : in ACN 000002669
Vial Number: 2





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Acquired : 24 Feb 2025 11:43 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\
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Acquired : 24 Feb 2025 12:40 using AcqMethod DrugTest35MS.M
Instrument : GCMS #4
Sample Name: Blank (C-19-0068) - Instrument ready 000002668
Misc Info : ACN 000002668
Vial Number: 1

