Brazoria County Crime Lab

Seized Drugs Section

GC-MS Maintenance Log

Instrument: SD GCMS 1 **Month/Year:** May 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	5/5/2025	1100	Pass	N/A	√	N/A	N/A	N/A	N/A	Maintenance	Analyst		KB
2	5/12/2025	2600	Pass	N/A	√	N/A	N/A	N/A	N/A	Maintenance	Analyst	new HE tank	KB
3	5/19/2025	1700	Pass	N/A	√	N/A	N/A	N/A	N/A	Maintenance	Analyst		KB
4	5/27/2025	650	Pass	√	√	√	N/A	N/A	N/A	Maintenance	Analyst		KB
5	5/30/2025	2700	Pass							Maintenance	Analyst	Helium tank change by MH	DS

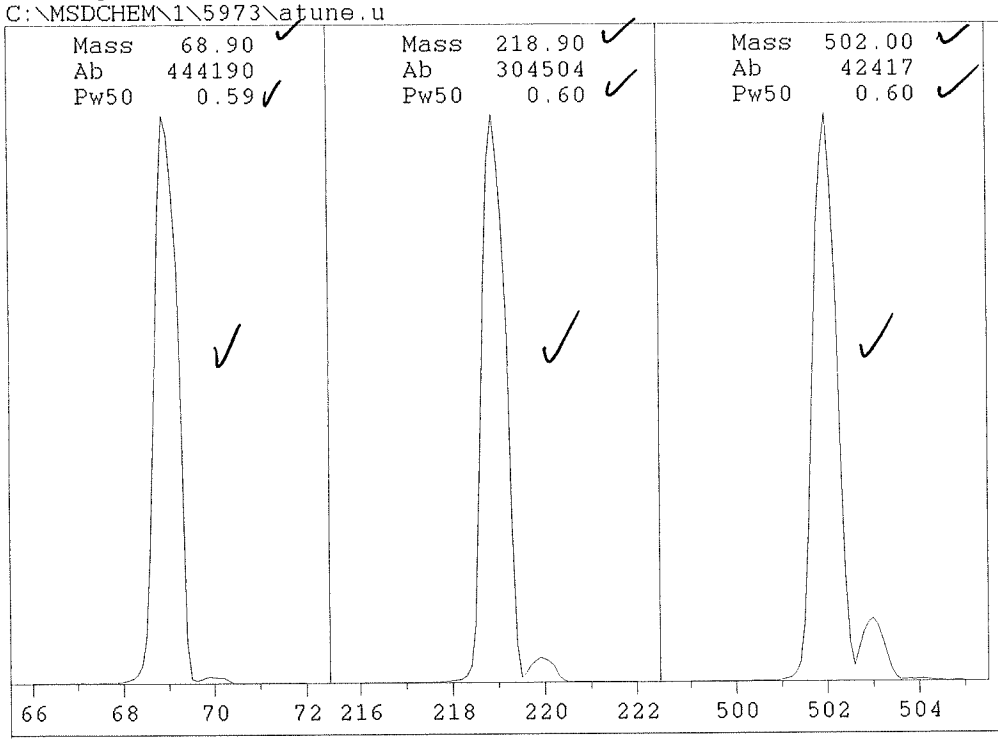
Signature: Derek Sanders **Date:** 06/02/2025

5973 Autotune

Mon May 05 07:01:42 2025
C:\MSDCHEM\1\5973\atune.u

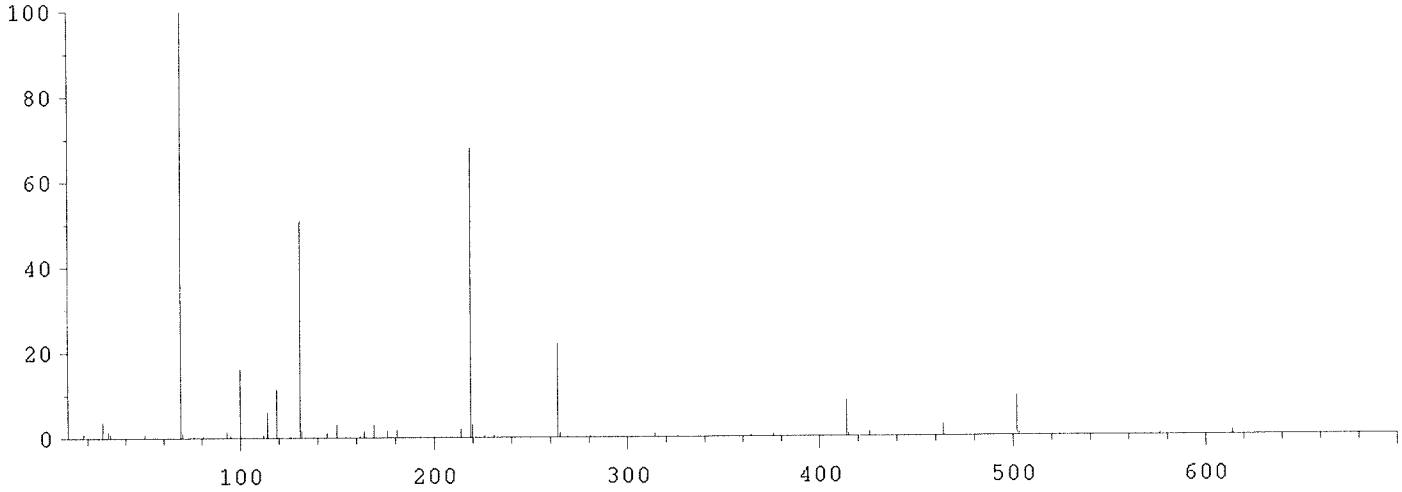
Instrument: SD GCMS 1

KB OK



Ion Pol	POS	MassGain	365
		MassOffs	-12
Emission	34.6	AmuGain	2442
EIEnrgy	69.9	AmuOffs	124
Filament	1	Wid219	-0.026
		DC Pol	POS
Repeller	29.79		
IonFcus	90.2	HEDEnab	ON
EntLens	14.5	EMVolts	1624
EntOffs	19.07		
		Samples	8
PFTBA	OPEN	Averages	3
		Stepsize	0.10
Zones:			
MS Source	230	TurboSpd	100
MS Quad	150		

Scan: 10.00 - 700.00 Samples: 8 Thresh: 100 Step: 0.10
130 peaks Base: 69.00 Abundance: 397824



Mass	Abund	Rel Abund	Iso Mass	Iso Abund	Iso Ratio
69.00	397824	100.00	70.00	4542	1.14
218.90	270528	68.00	219.90	12385	4.58
502.00	37496	9.43	503.00	3534	9.43

Air/Water Check: H20~1.03% N2~3.66% O2~1.00% CO2~0.09% N2/H2O~356.07%

Column Flow: Front: 0.798 Back: 0 ml/min. Interface Temp: 280

Ramp Criteria:
Ion Focus Maximum 90 volts using ion 502; EM Gain 133957
Repeller Maximum 35 volts using ion 219;

MassGain Values @Samples: 365@3 365@2 365@1 367@0 365@FS

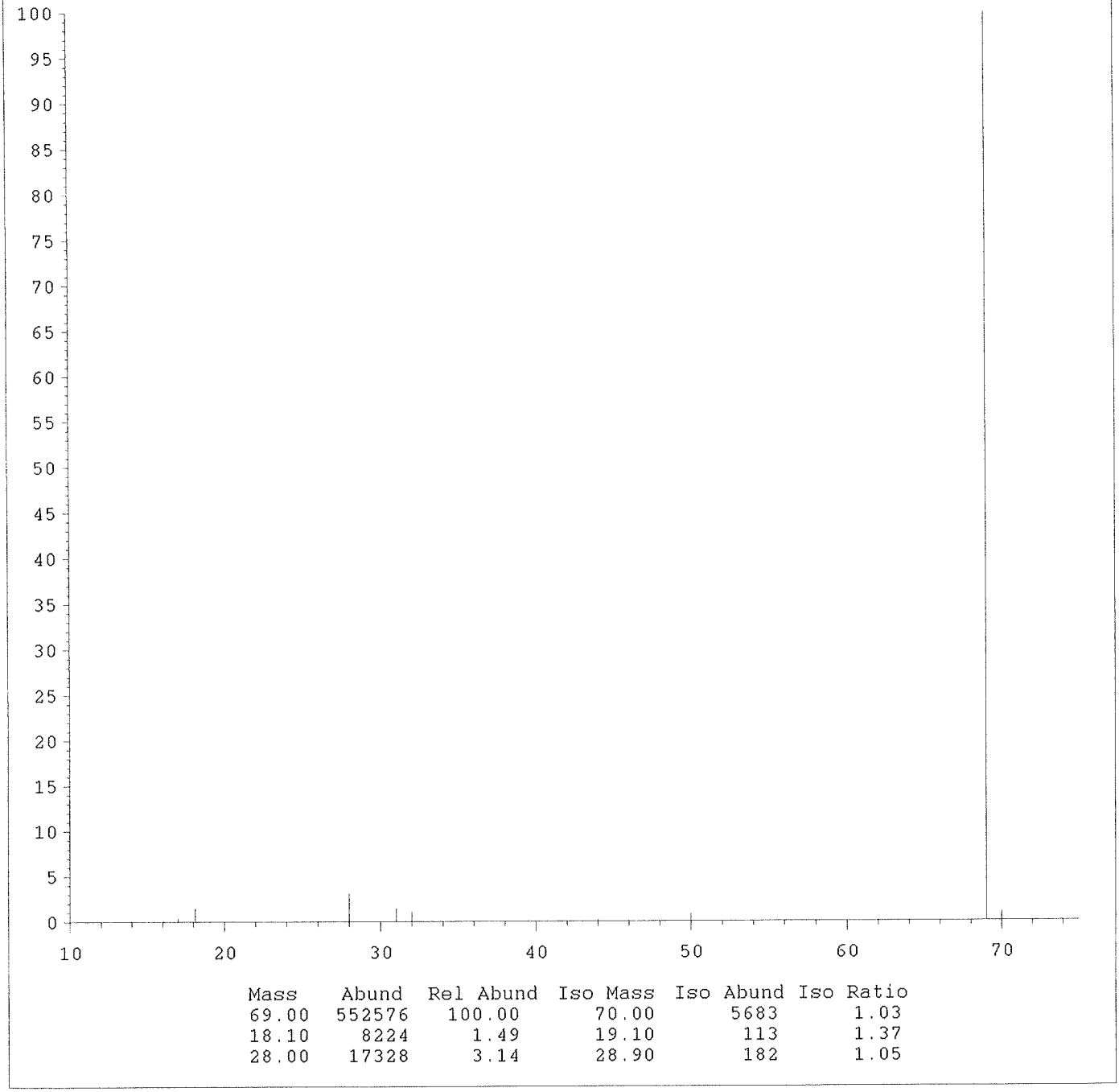
TARGET MASS:	50	69	131	219	414	502	800
Amu Offset:	124.0	124.0	124.0	124.0	124.0	124.0	124.0
Entrance Lens Offset:	19.1	19.1	19.1	19.1	19.1	19.1	19.1

597x Air and Water Check

KB
OK

Instrument: SD GCMS 1
Mon May 05 06:47:57 2025 C:\MSDCHEM\1\5973\

Scan: 10.00 - 75.00 Samples: 8 Thresh: 0 Step: 0.10
77 peaks Base: 69.00 Abundance: 552576



Mass	Abund	Rel Abund	Iso Mass	Iso Abund	Iso Ratio
69.00	552576	100.00	70.00	5683	1.03
18.10	8224	1.49	19.10	113	1.37
28.00	17328	3.14	28.90	182	1.05

Current Params used: atune.u

Relative abundances:

18/69 =	1.49 ✓	Water%
28/69 =	3.14 ✓	Nitrogen%
32/69 =	1.05 ✓	Oxygen%
44/69 =	0.24	Carbon Dioxide%
28/18 =	210.70	Nitrogen/Water%

System Verification - Tune (Detector Optimization) Portion

VB

Instrument Name	: SD GCMS 1	
DC Polarity	: Positive	
Filament	: 1	
BasePeak should be 69 or 219		Ok
Position of mass 69	69.00	Ok
Position of mass 219	218.90	Ok
Position of mass 502	502.00	Ok
Position of isotope mass 70	69.99	Ok
Position of isotope mass 220	219.91	Ok
Position of isotope mass 503	502.99	Ok
Ratio of mass 70 to mass 69(0.5 - 1.6%)	1.07	Ok
Ratio of mass 220 to mass 219(3.2 - 5.4%)	4.31	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	69.32	Ok
Ratio of 502 to 69 should be > 2.4% and is	10.19	Ok
Mass 69 Precursor (<= 3%)	0.18	Ok
Mass 219 Precursor (<= 6%)	0.37	Ok
Mass 502 Precursor (<= 12%)	0.48	Ok
Testing for a leak in the system		
Ratio of 18 to 69 (<20%)	1.15	Ok
Ratio of 28 to 69 (<10%)	3.92	Ok
Electron Multiplier Voltage	1624	Ok

Tune portion of System Verification passed.

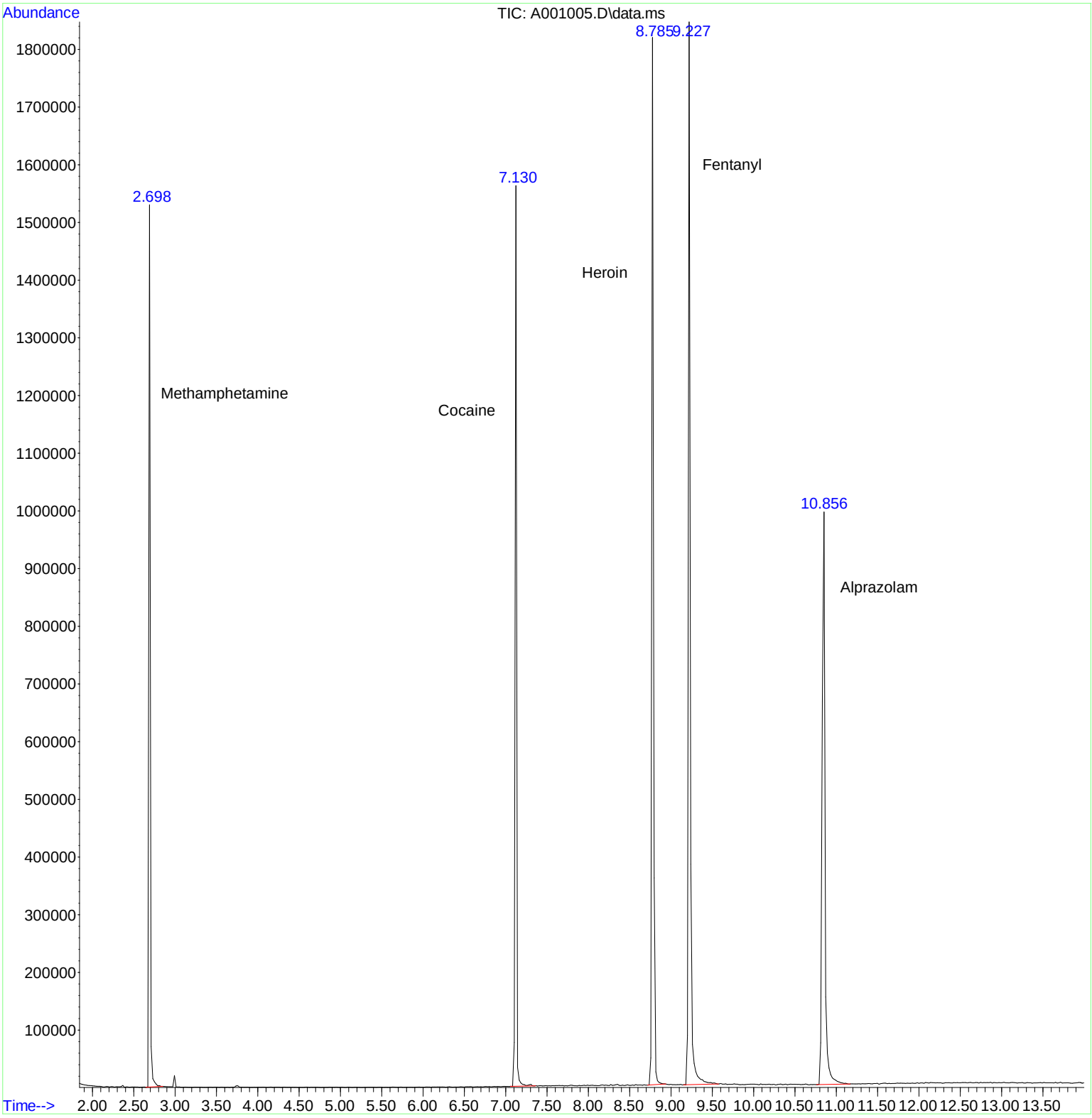
BCCL GC/MS #1
Retention Times for the Week of:

05/05/2025 - 05/11/2025

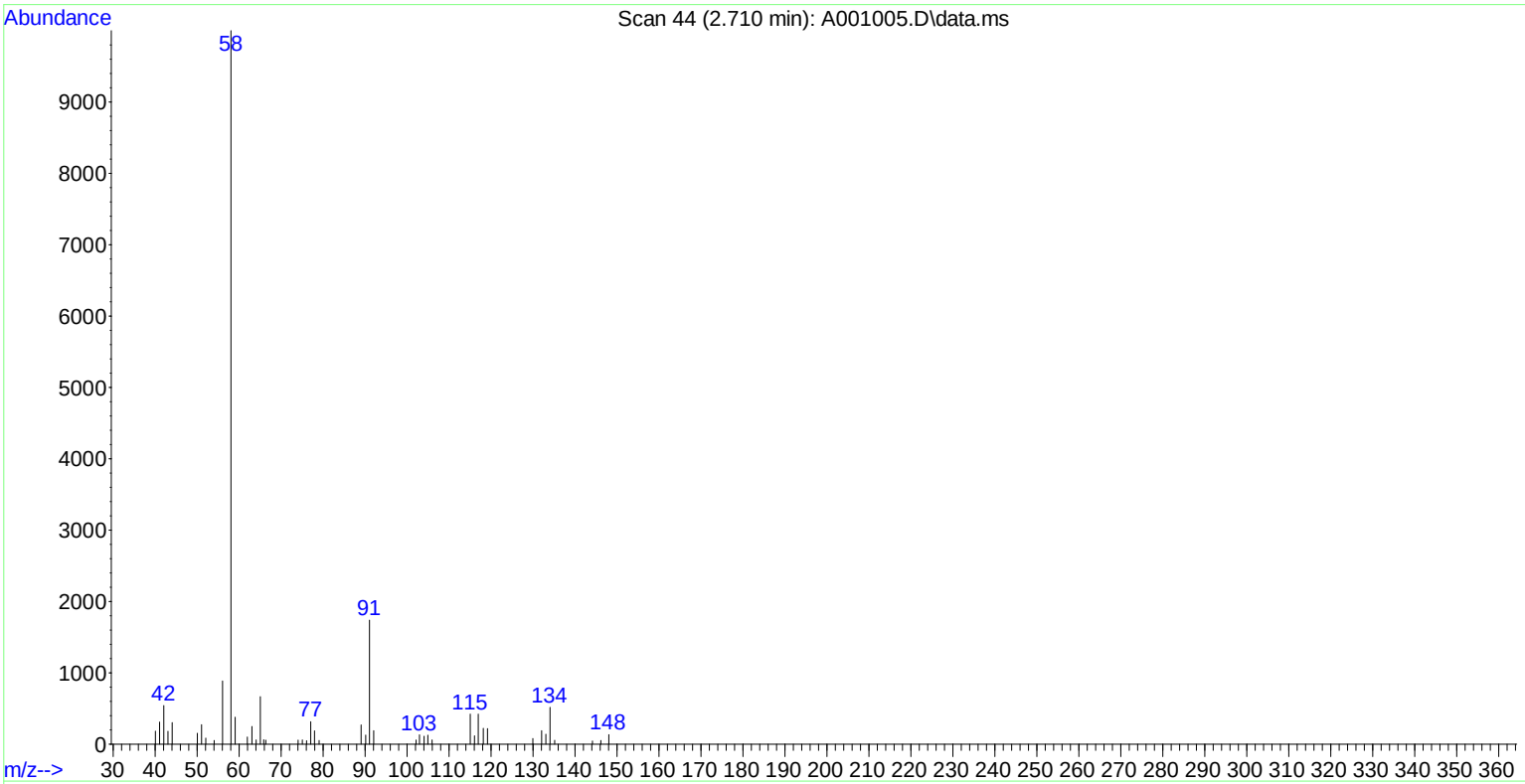
[x] **Tune: 05/05/2025 - Autotune KB**

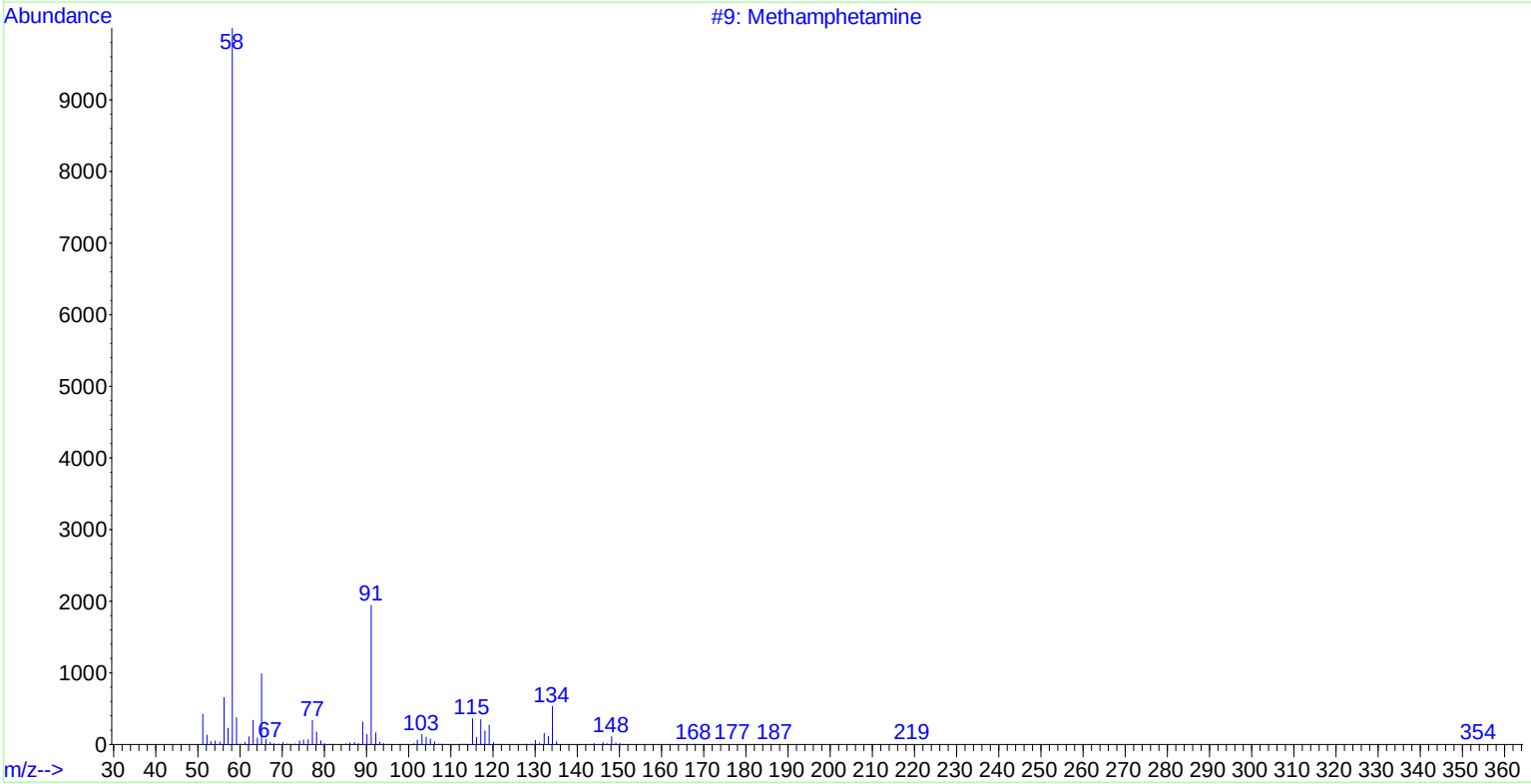
Standard	Standard #	Method	Retention Time	1% Window	
Methamphetamine	R-24-060	BCCL GenDrug	2.698	2.671	2.724
Cocaine	R-24-060	BCCL GenDrug	7.130	7.058	7.201
Heroin	R-24-060	BCCL GenDrug	8.785	8.697	8.872
Fentanyl	R-24-060	BCCL GenDrug	9.227	9.134	9.319
Alprazolam	R-24-060	BCCL GenDrug	10.856	10.747	10.964

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Operator : AGILENT SD GCMS #1
Instrument : SD GCMS 1
Acquired : 5 May 2025 8:41 using AcqMethod BCCL GENDRUG METHOD.M
Sample Name: CAYMAN GC/MS MIX 3 (R-24-060) 000002665
Misc Info : In ACN

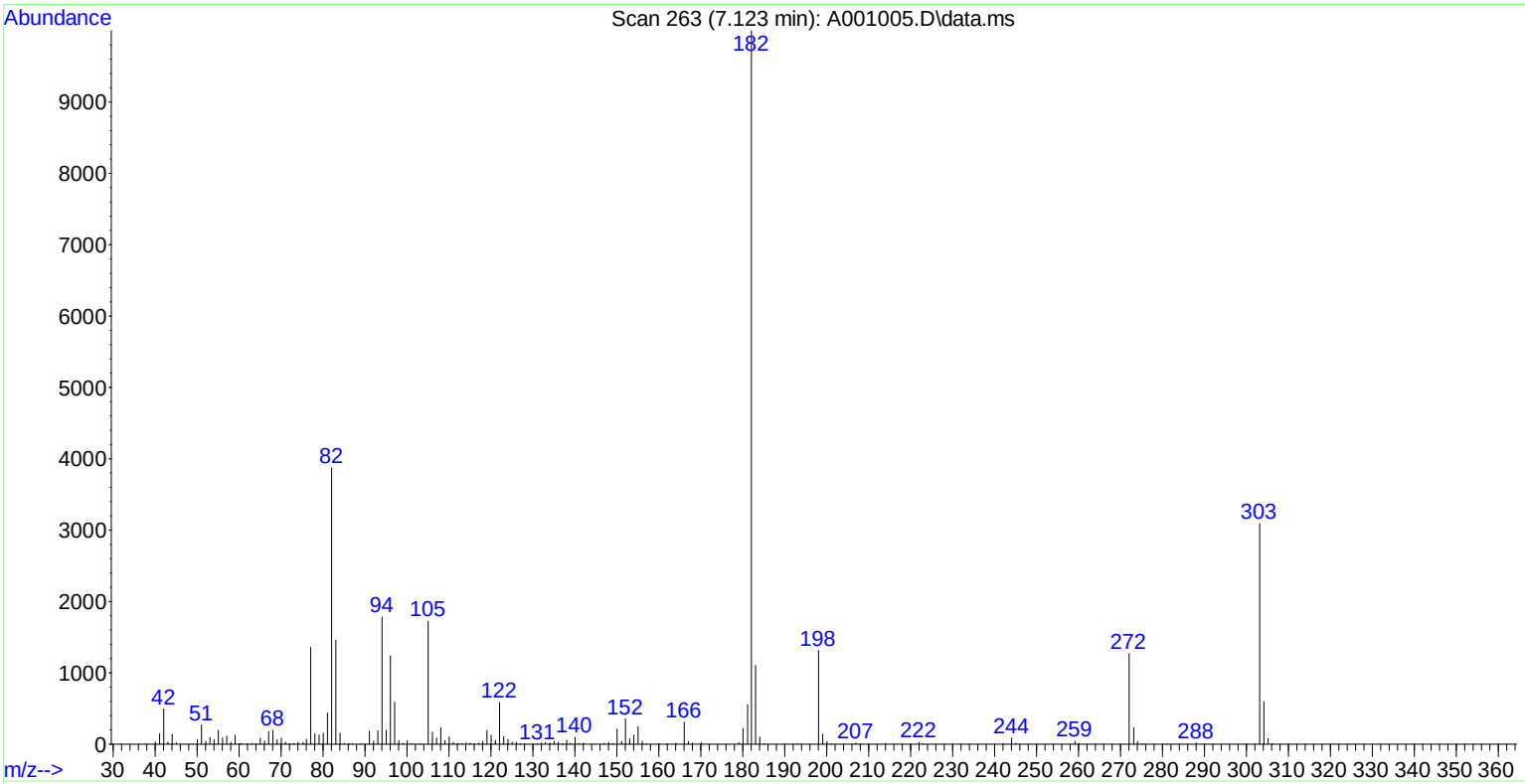


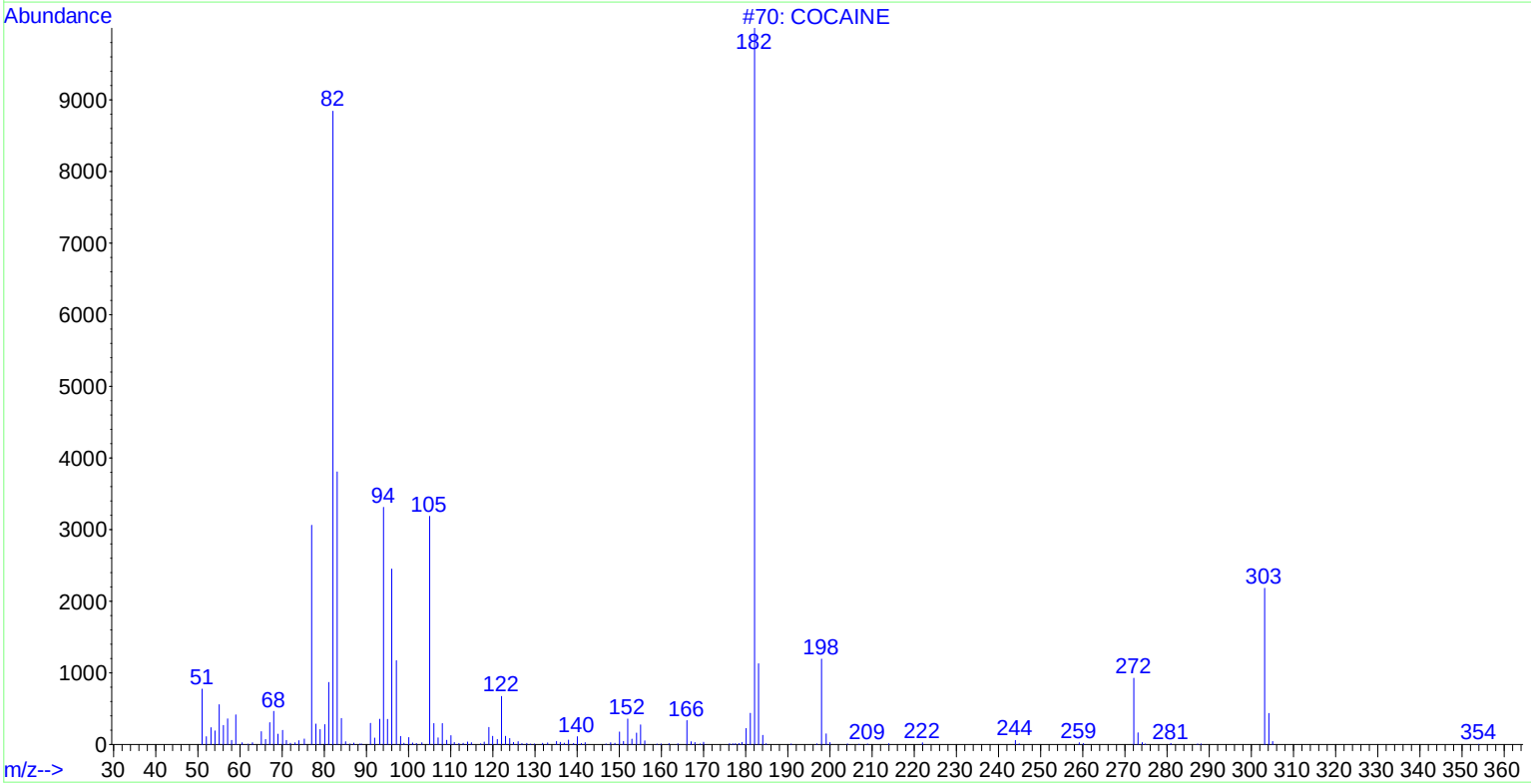
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Misc Info : In ACN



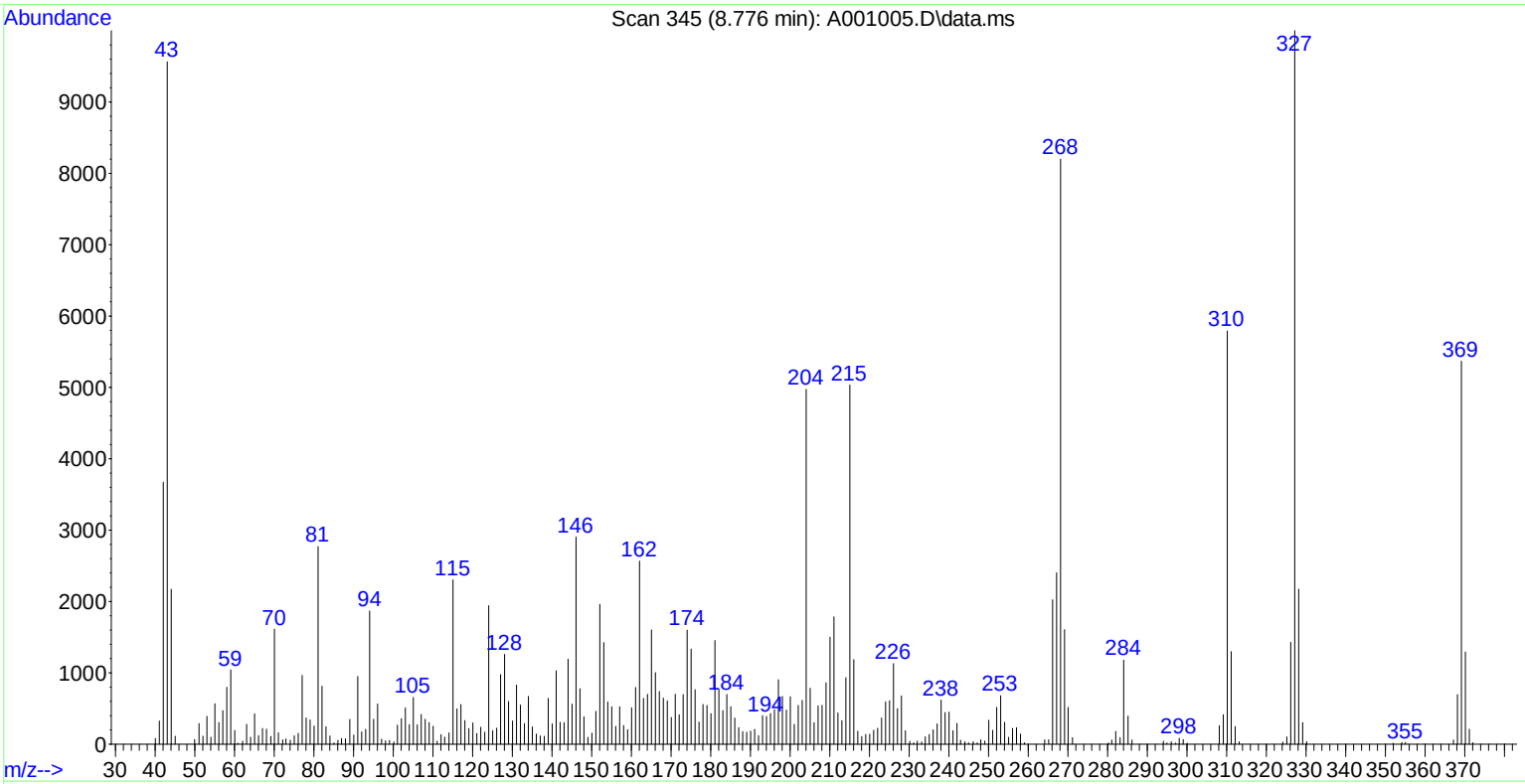


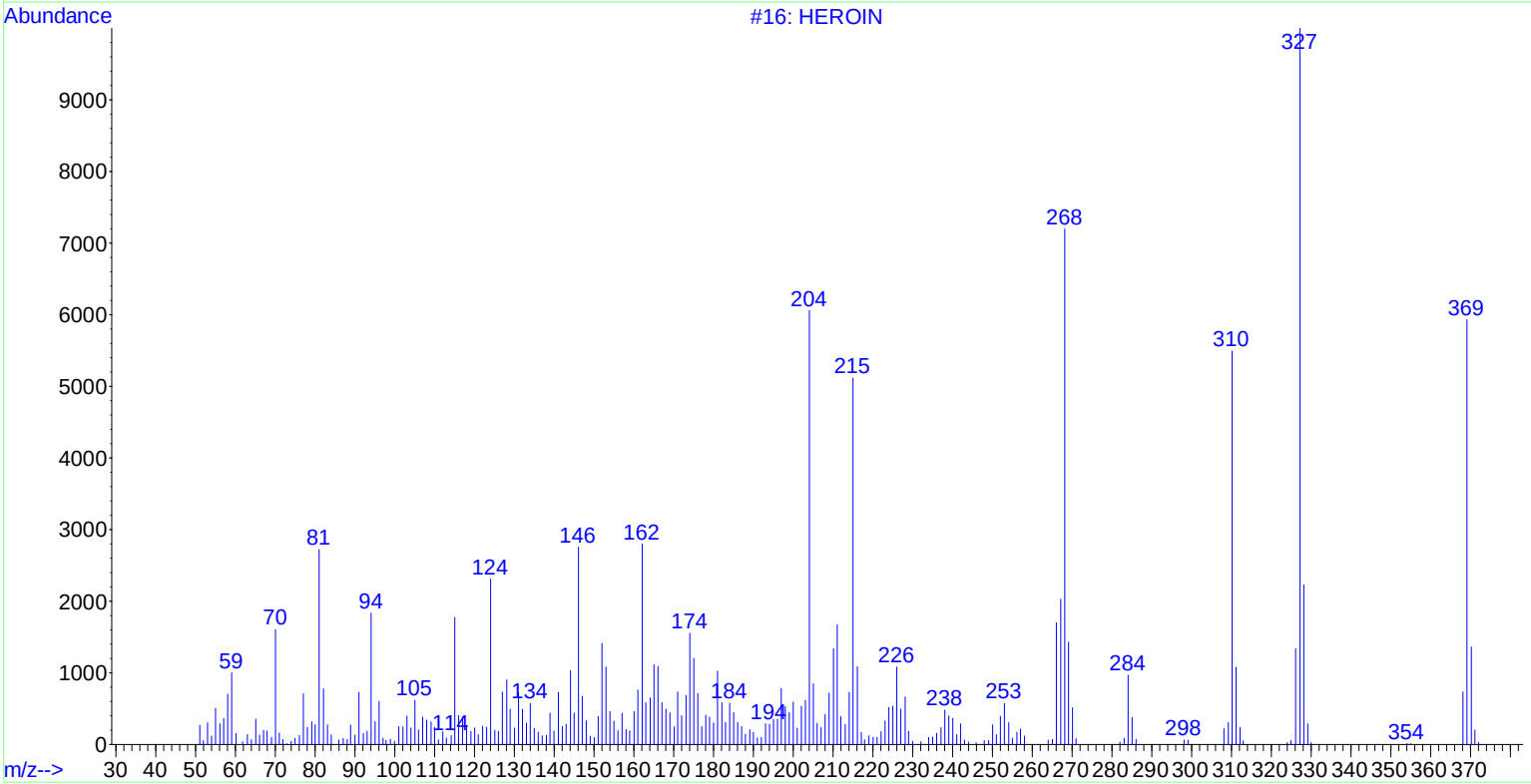
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Instrument : SD GCMS 1
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Sample Name: CAYMAN GC/MS MIX 3 (R-24-060) 000002665
Misc Info : In ACN



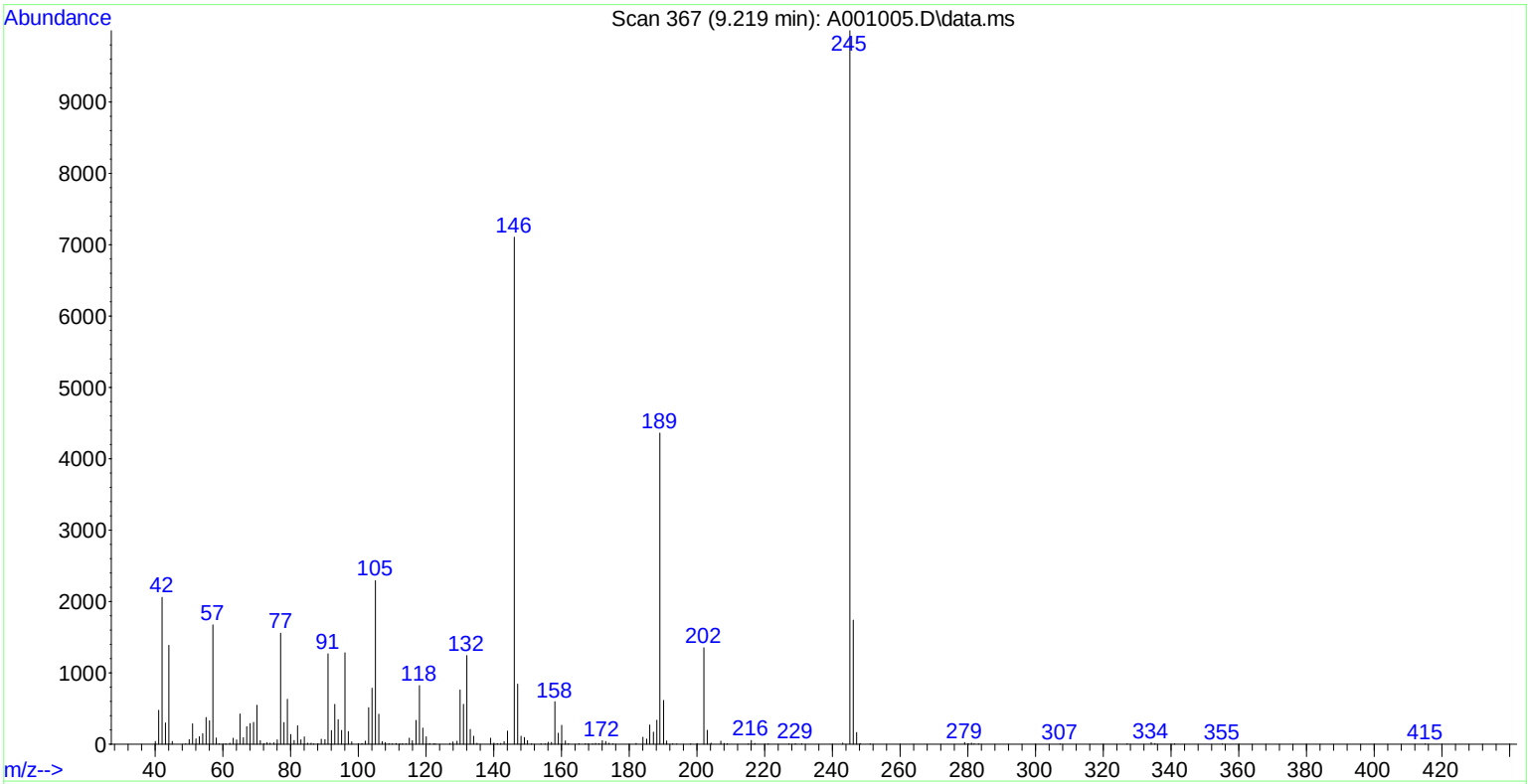


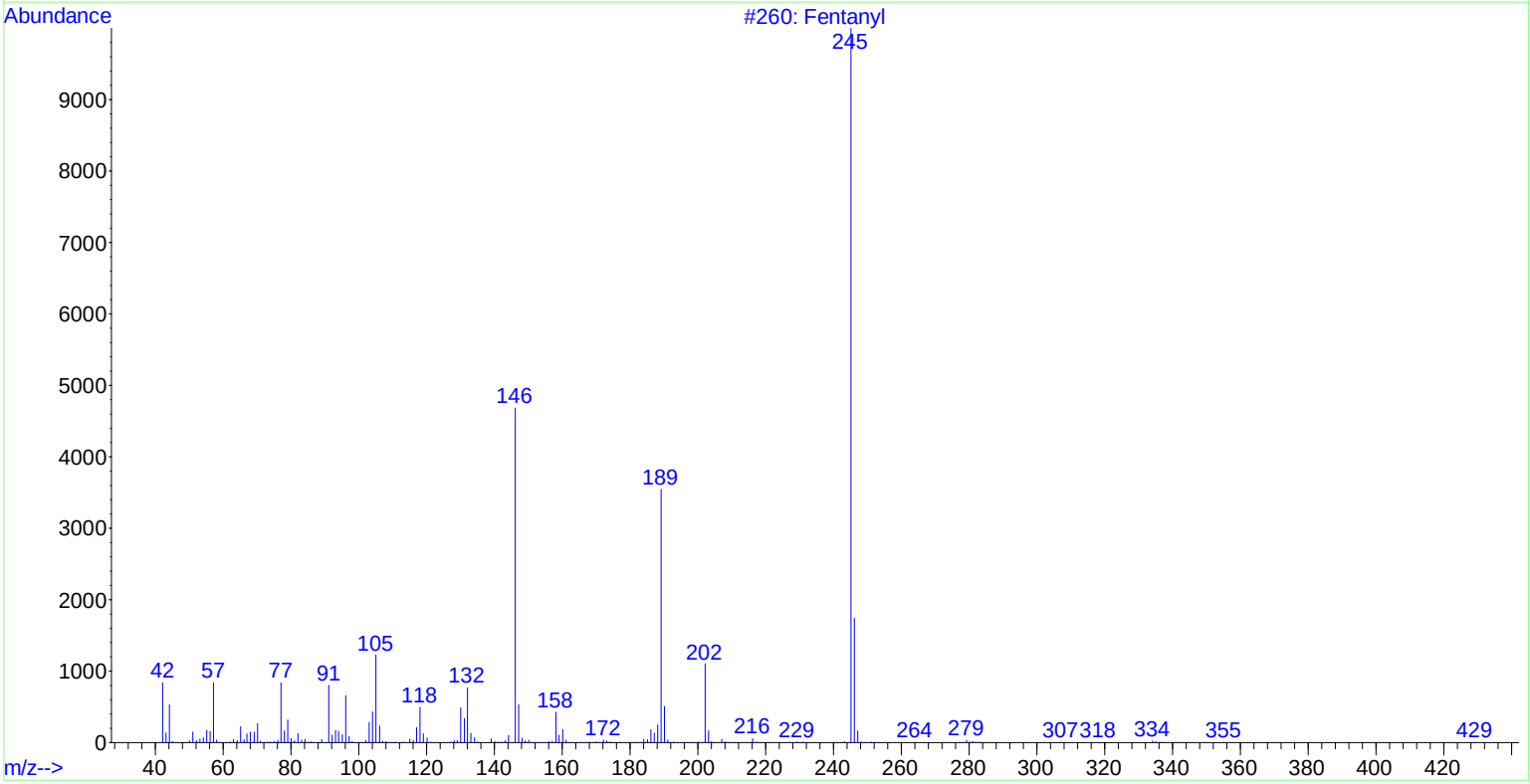
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Instrument : SD GCMS 1
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Sample Name: CAYMAN GC/MS MIX 3 (R-24-060) 000002665
Misc Info : In ACN



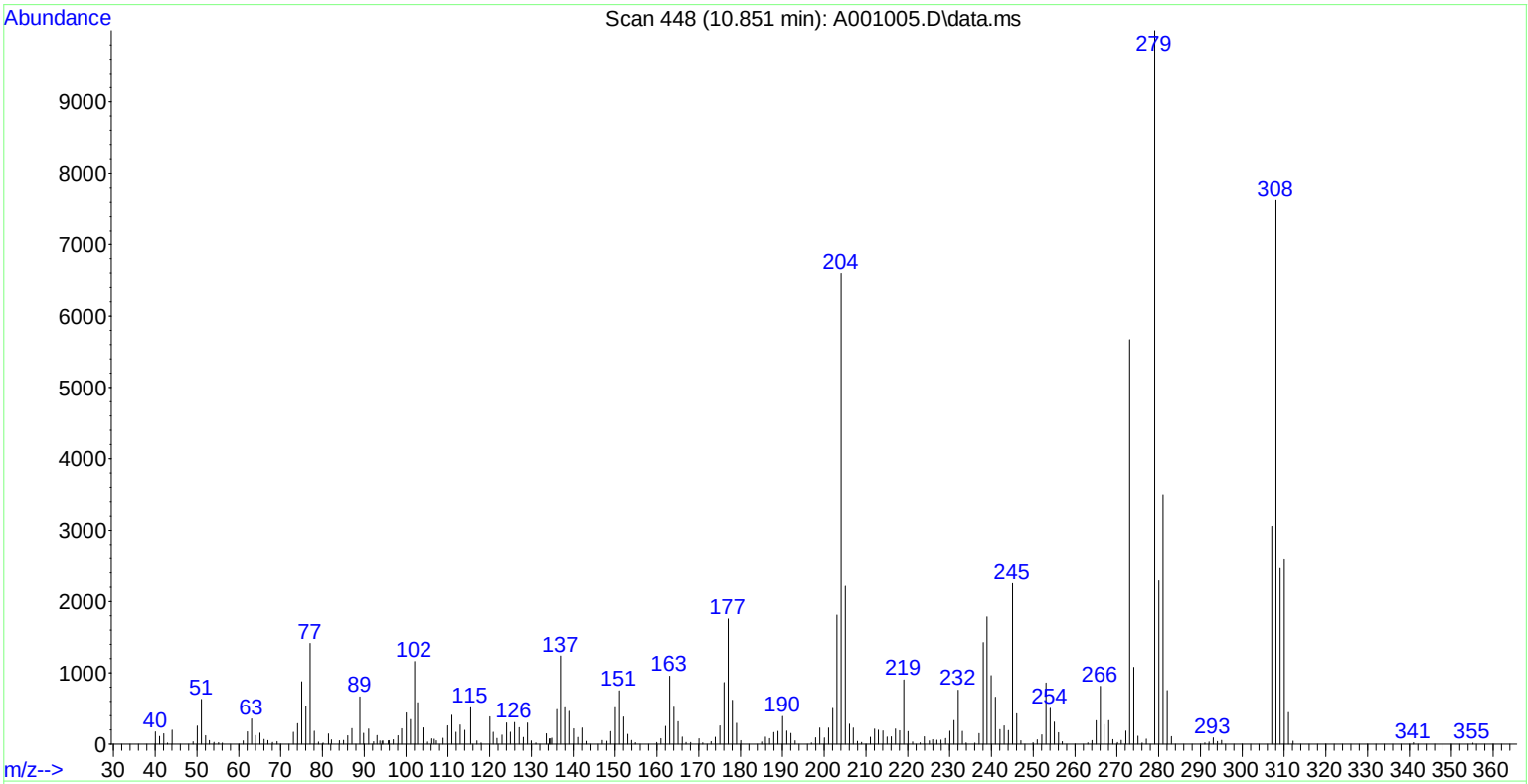


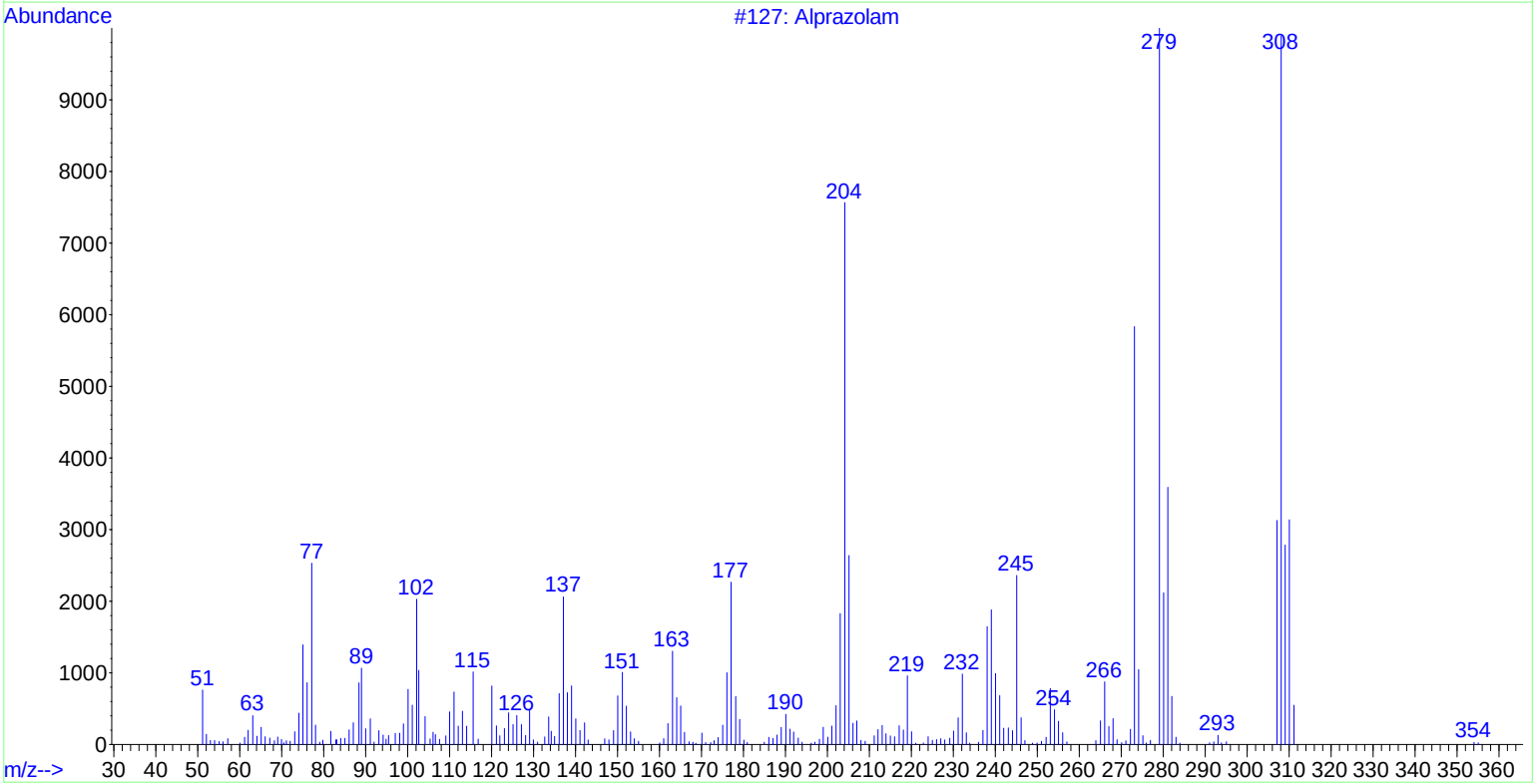
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Operator : AGILENT SD GCMS #1
Instrument : SD GCMS 1
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Sample Name: CAYMAN GC/MS MIX 3 (R-24-060) 000002665
Misc Info : In ACN



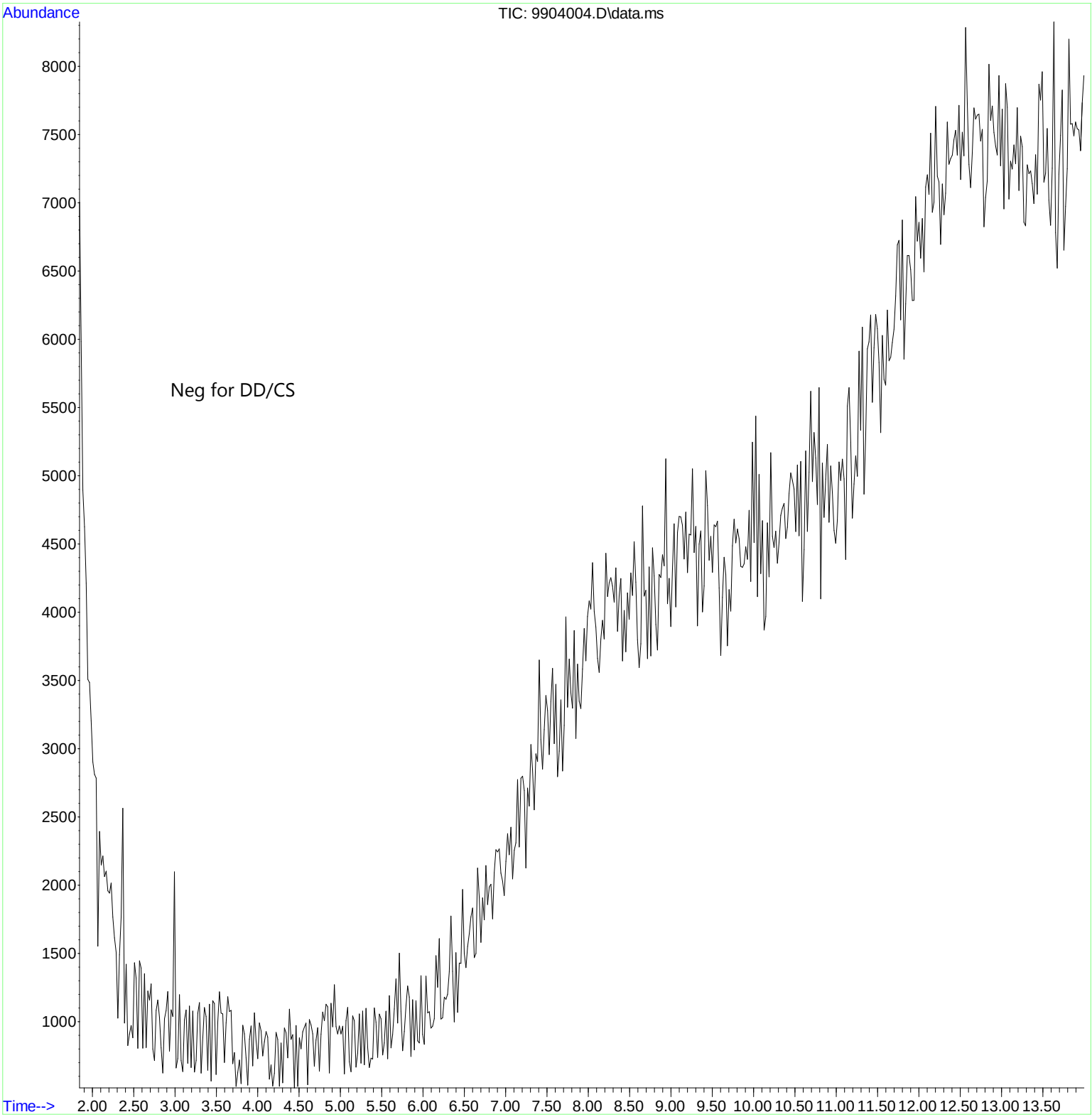


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Instrument : SD GCMS 1
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Sample Name: CAYMAN GC/MS MIX 3 (R-24-060) 000002665
Misc Info : In ACN

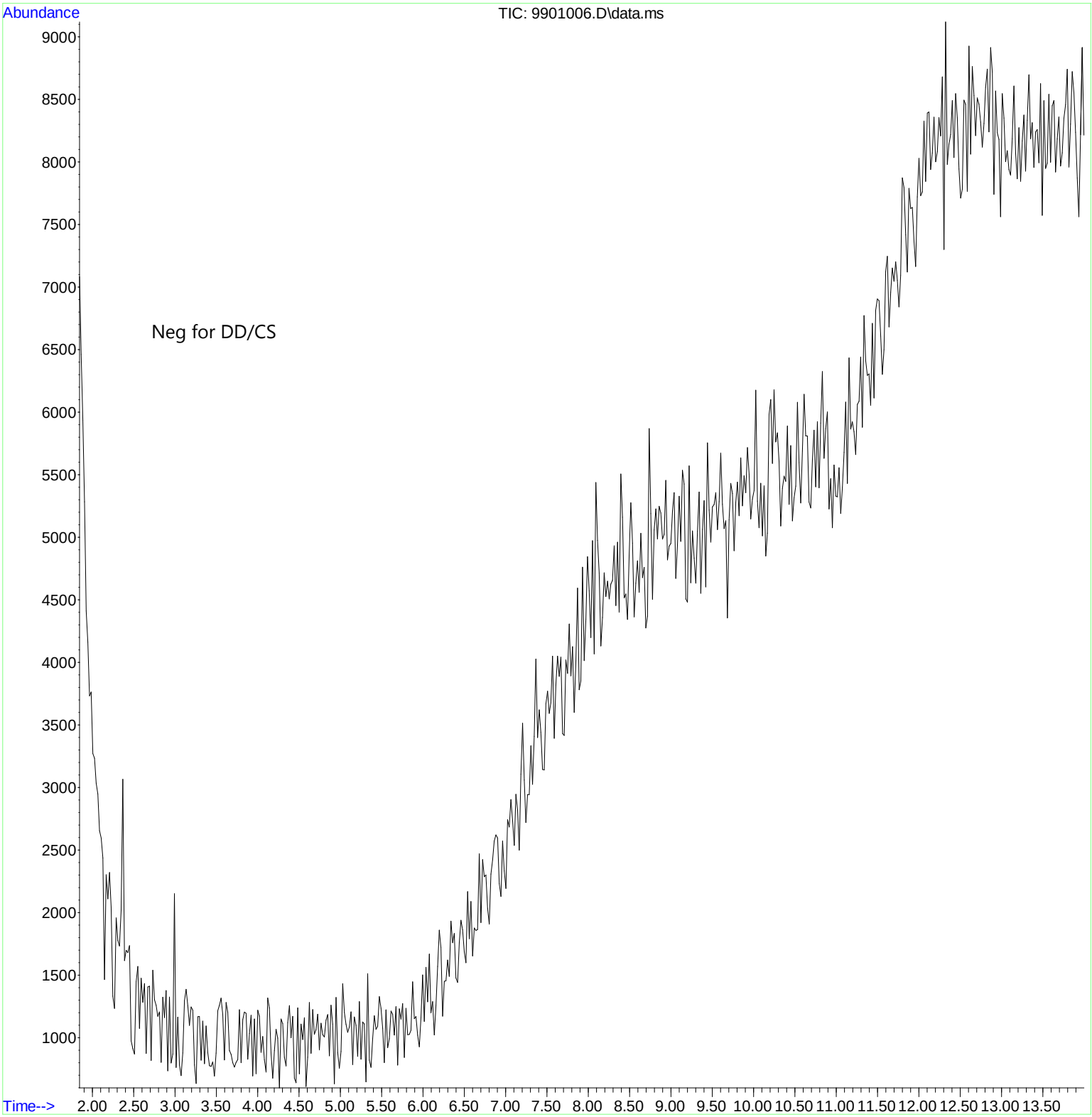




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Operator : AGILENT SD GCMS #1
Instrument : SD GCMS 1
Acquired : 5 May 2025 8:24 using AcqMethod BCCL GENDRUG METHOD.M
Sample Name: BLANK PRIOR TO CAYMAN GC/MS 000002664
Misc Info : ACN (C-19-0068)



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Operator : AGILENT SD GCMS #1
Instrument : SD GCMS 1
Acquired : 5 May 2025 8:59 using AcqMethod BCCL GENDRUG METHOD.M
Sample Name: BLANK - INSTRUMENT READY 000002664
Misc Info : ACN (C-19-0068)

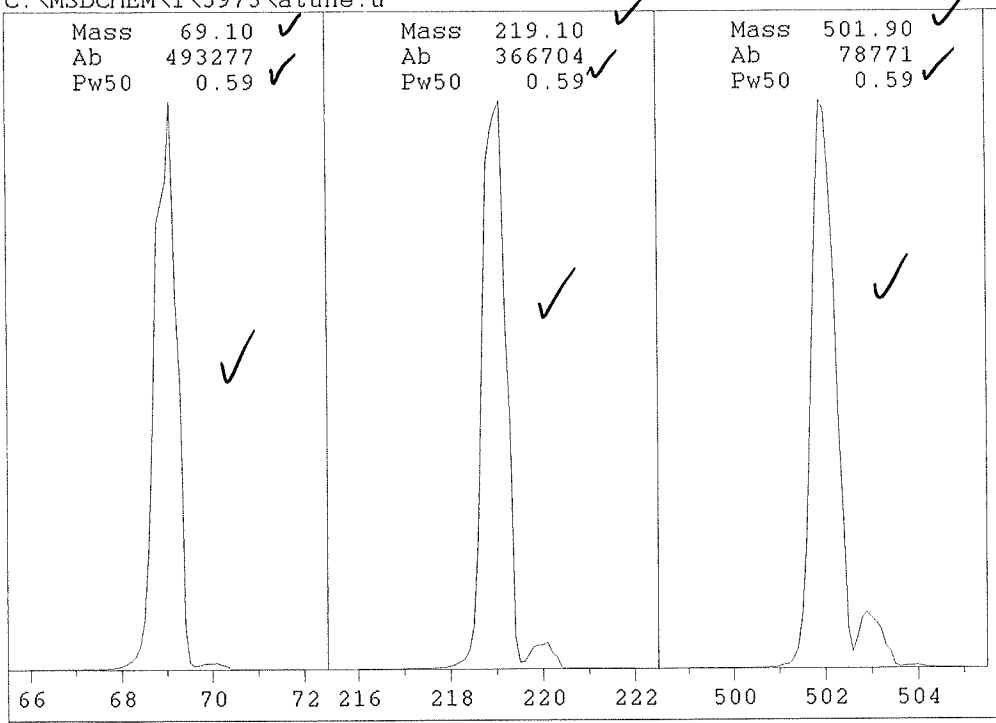


5973 Autotune

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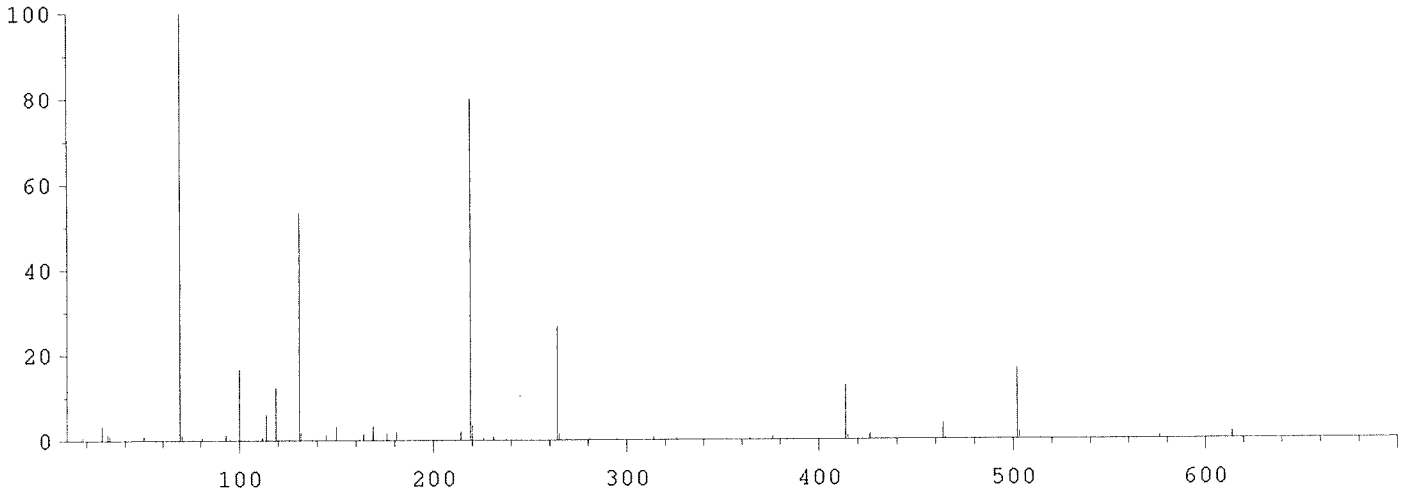
Instrument: SD GCMS 1

KB OK



Ion Pol	POS	MassGain	366
		MassOffs	-12
Emission	34.6	AmuGain	2443
EIEnrgy	69.9	AmuOffs	123
Filament	1	Wid219	-0.055
		DC Pol	POS
Repeller	34.81		
IonFcus	90.2	HEDEnab	ON
EntLens	16.5	EMVolts	1671
EntOffs	17.07		
		Samples	8
PFTBA	OPEN	Averages	3
		Stepsize	0.10
Zones:			
MS Source	230	TurboSpd	100
MS Quad	150		

Scan: 10.00 - 700.00 Samples: 8 Thresh: 100 Step: 0.10
154 peaks Base: 69.00 Abundance: 414592



Mass	Abund	Rel Abund	Iso Mass	Iso Abund	Iso Ratio
69.00	414592	100.00	70.00	4866	1.17
219.00	331904	80.06	220.00	14286	4.30
502.00	69176	16.69	503.00	7887	11.40

Air/Water Check: H20~0.77% N2~3.38% O2~0.96% CO2~0.05% N2/H2O~436.97%

Column Flow: Front: 0.798 Back: 0 ml/min. Interface Temp: 280

Ramp Criteria:
Ion Focus Maximum 90 volts using ion 502; EM Gain 165466
Repeller Maximum 35 volts using ion 219;

MassGain Values @Samples: 365@3 367@2 366@1 366@0 366@FS

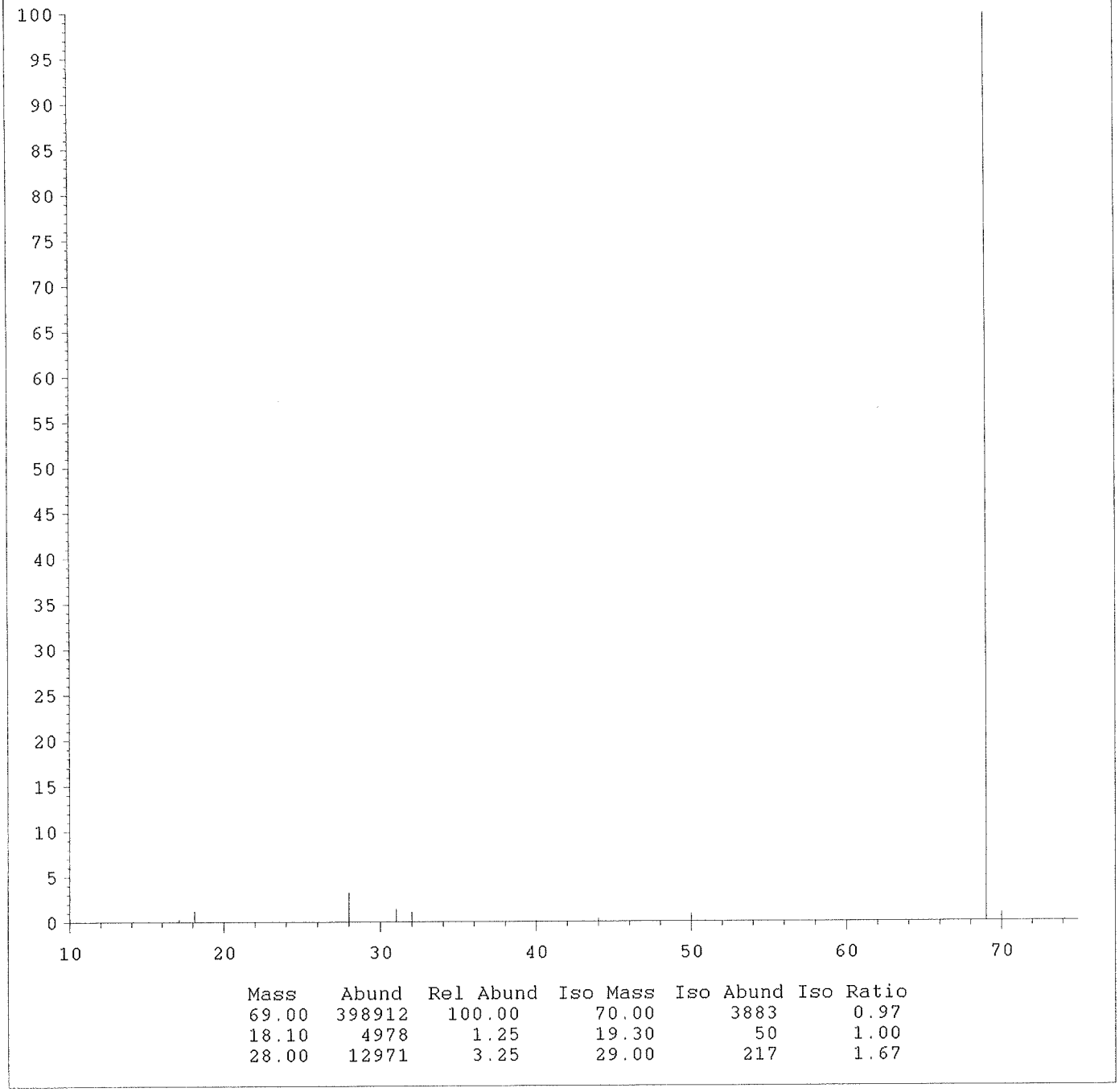
TARGET MASS:	50	69	131	219	414	502	800
Amu Offset:	123.0	123.0	123.0	123.0	123.0	123.0	123.0
Entrance Lens Offset:	17.1	17.1	17.1	17.1	17.1	17.1	17.1

597x Air and Water Check

KB
OK

Instrument: SD GCMS 1
Mon May 12 07:42:29 2025 C:\MSDCHEM\1\5973\

Scan: 10.00 - 75.00 Samples: 8 Thresh: 0 Step: 0.10
72 peaks Base: 69.00 Abundance: 398912



Mass	Abund	Rel Abund	Iso Mass	Iso Abund	Iso Ratio
69.00	398912	100.00	70.00	3883	0.97
18.10	4978	1.25	19.30	50	1.00
28.00	12971	3.25	29.00	217	1.67

Current Params used: atune.u

Relative abundances:

18/69 =	1.25	Water%
28/69 =	3.25	Nitrogen%
32/69 =	1.08	Oxygen%
44/69 =	0.31	Carbon Dioxide%
28/18 =	260.57	Nitrogen/Water%

System Verification - Tune (Detector Optimization) Portion

KB

Instrument Name	: SD GCMS 1	
DC Polarity	: Positive	
Filament	: 1	
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	69.97	Ok
Position of isotope mass 220	219.99	Ok
Position of isotope mass 503	502.98	Ok
Ratio of mass 70 to mass 69(0.5 - 1.6%)	1.10	Ok
Ratio of mass 220 to mass 219(3.2 - 5.4%)	4.29	Ok
Ratio of mass 503 to mass 502(7.9 - 12.3%)	10.18	Ok
Ratio of 219 to 69 should be > 40% and is	79.67	Ok
Ratio of 502 to 69 should be > 2.4% and is	16.25	Ok
Mass 69 Precursor (<= 3%)	0.84	Ok
Mass 219 Precursor (<= 6%)	1.87	Ok
Mass 502 Precursor (<= 12%)	0.64	Ok
Testing for a leak in the system		
Ratio of 18 to 69 (<20%)	0.80	Ok
Ratio of 28 to 69 (<10%)	3.29	Ok
Electron Multiplier Voltage	1671	Ok

Tune portion of System Verification passed.

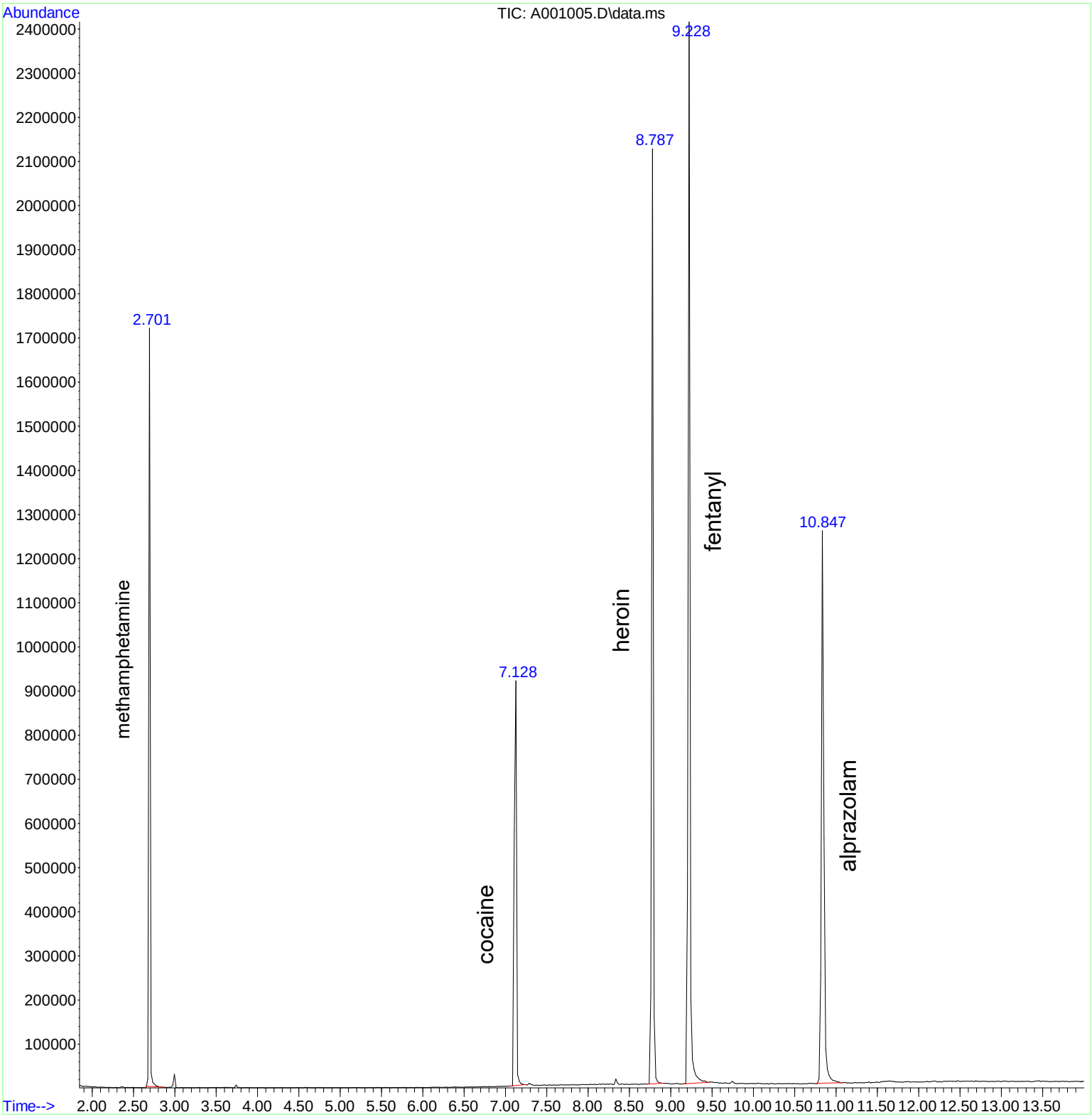
BCCL GC/MS #1
Retention Times for the Week of:

05/12/2025 - 05/18/2025

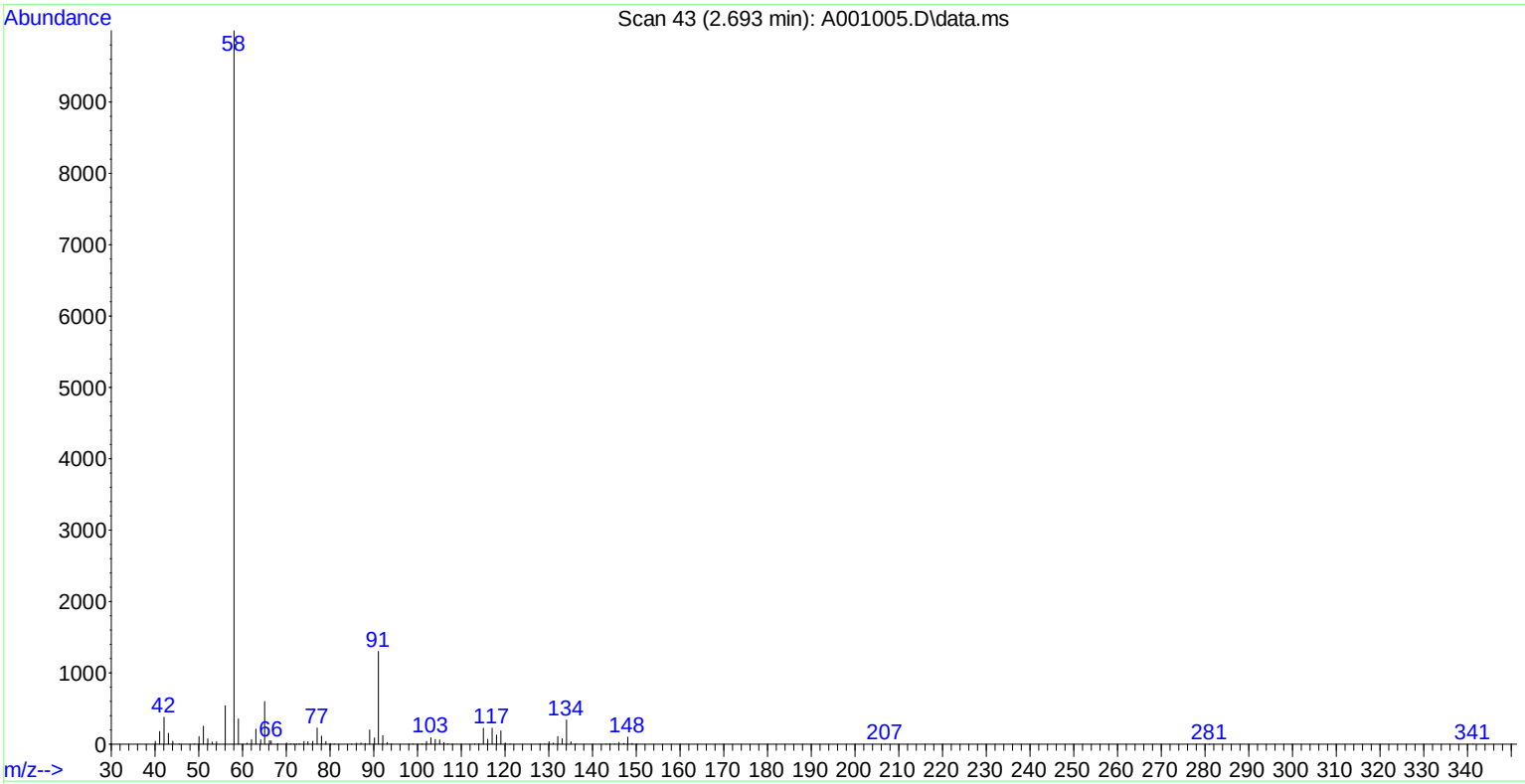
[x] **Tune: 05/12/2025 - Autotune KB**

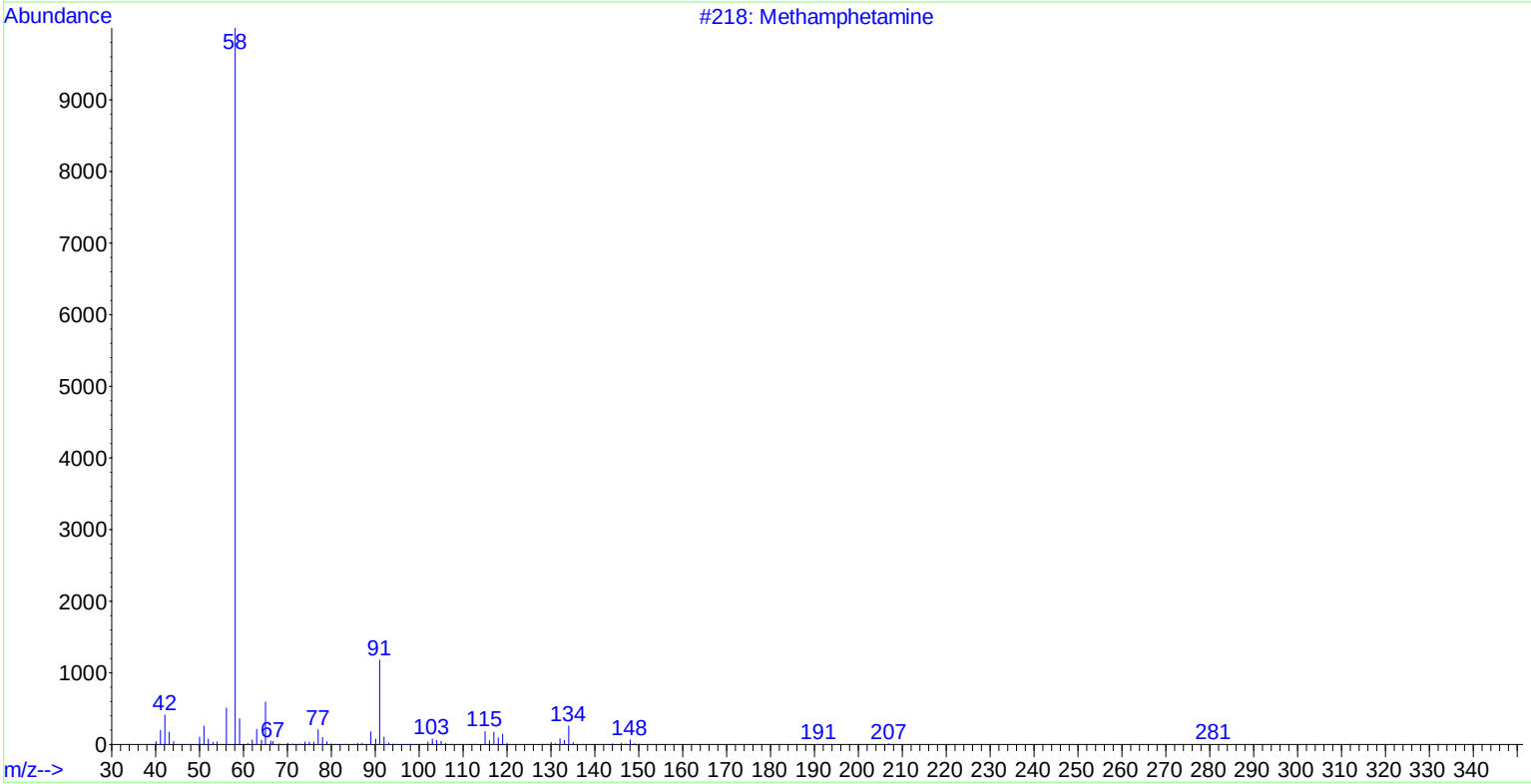
Standard	Standard #	Method	Retention Time	1% Window	
Methamphetamine	R-24-060	BCCL GenDrug	2.701	2.673	2.728
Cocaine	R-24-060	BCCL GenDrug	7.128	7.056	7.199
Heroin	R-24-060	BCCL GenDrug	8.787	8.699	8.874
Fentanyl	R-24-060	BCCL GenDrug	9.228	9.135	9.320
Alprazolam	R-24-060	BCCL GenDrug	10.847	10.738	10.955
Sildenafil	R-22-029	DrugTest50-FHTI	28.315	28.031	28.598

File :D:\GCMS1Data\Stds and Chemical Verification\Weekly Check Mix
... 2025\051225\A001005.D
Operator : AGILENT SD GCMS #1
Instrument : SD GCMS 1
Acquired : 12 May 2025 8:54 using AcqMethod BCCL GENDRUG METHOD.M
Sample Name: CAYMAN GC/MS MIX 3 (R-24-060) 000002665 -KB 5/12/2025
Misc Info : In ACN

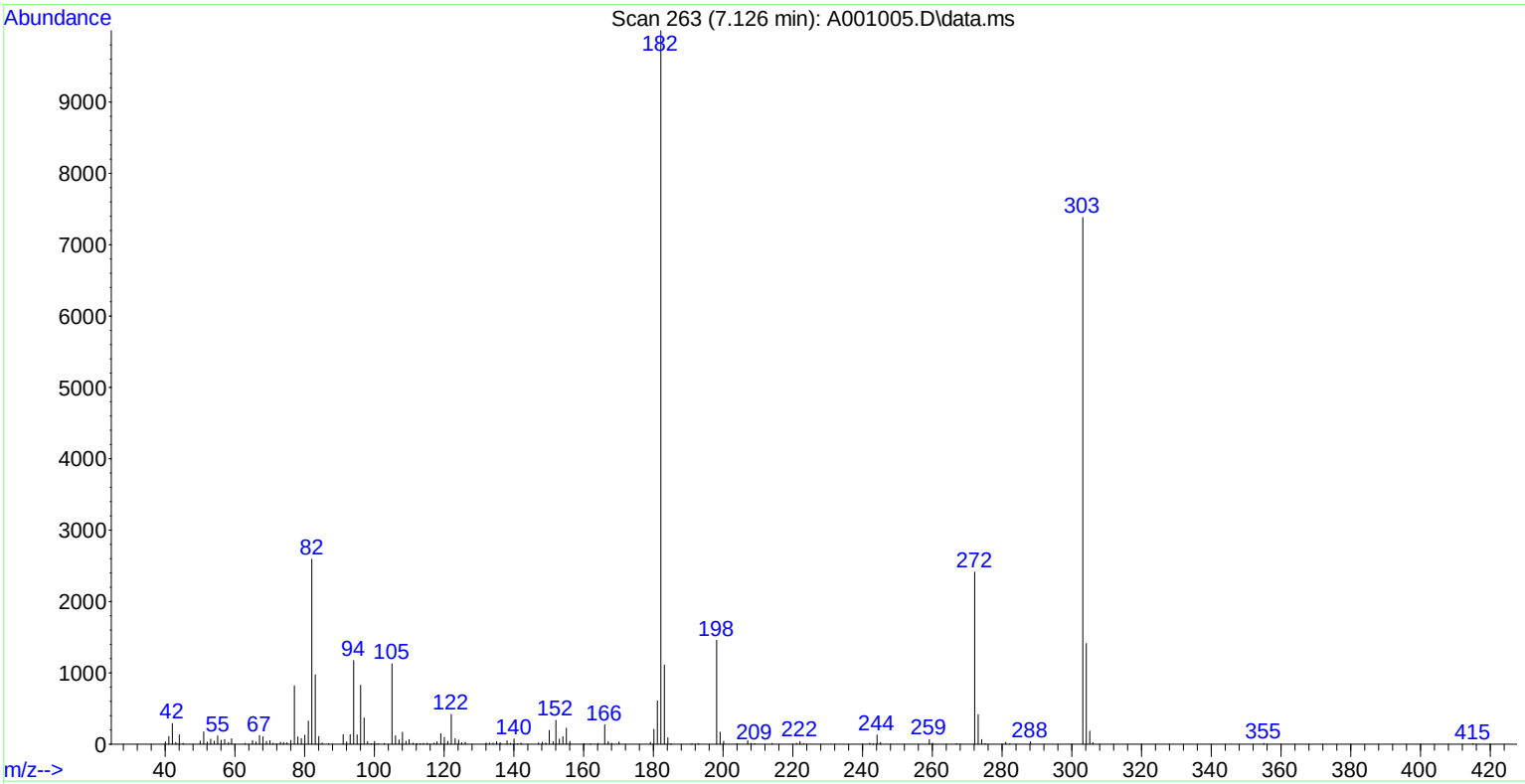


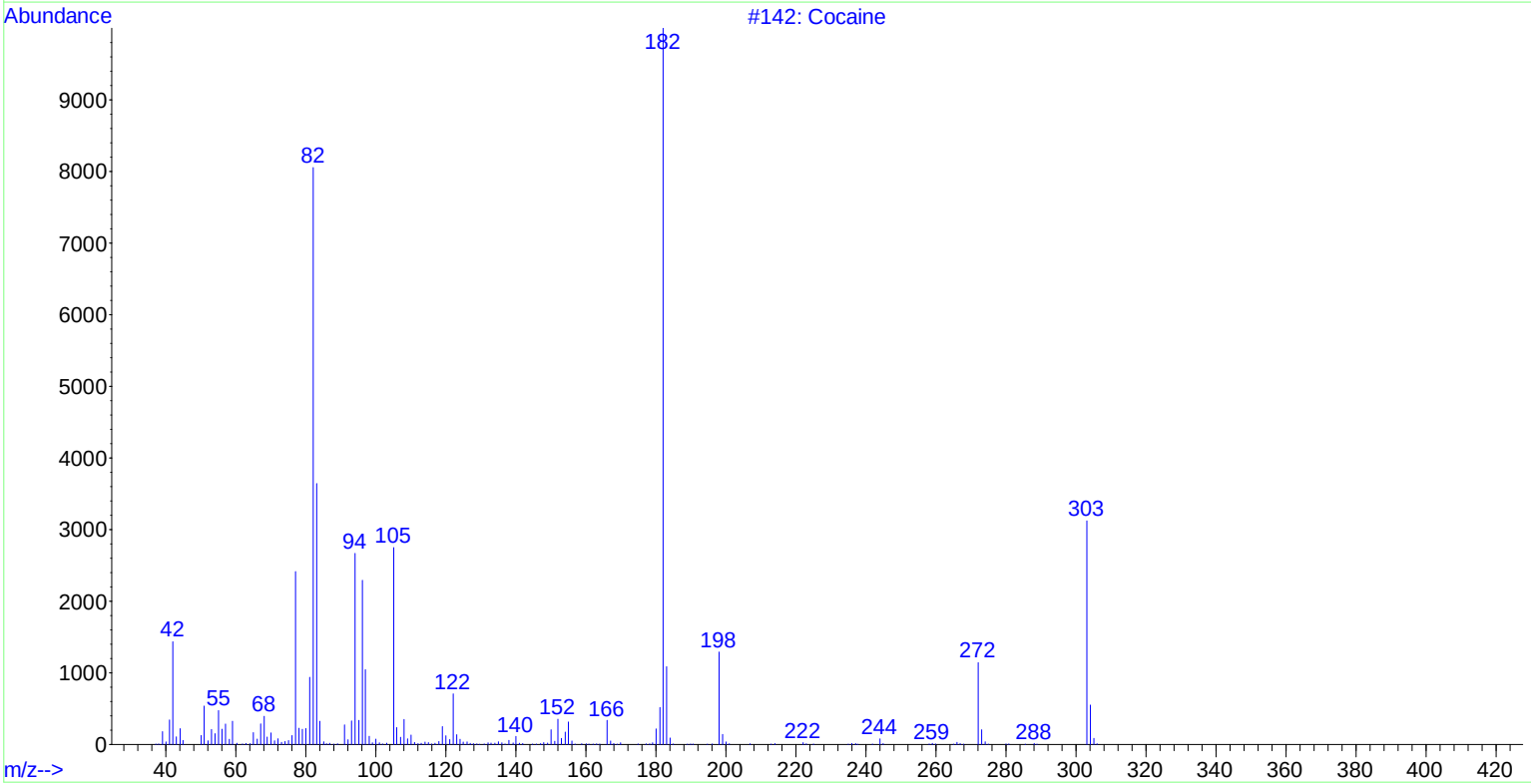
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Instrument : SD GCMS 1
Acquired : 12 May 2025 8:54 using AcqMethod BCCL GENDRUG METHOD.M
Sample Name: CAYMAN GC/MS MIX 3 (R-24-060) 000002665 -KB 5/12/2025
Misc Info : In ACN



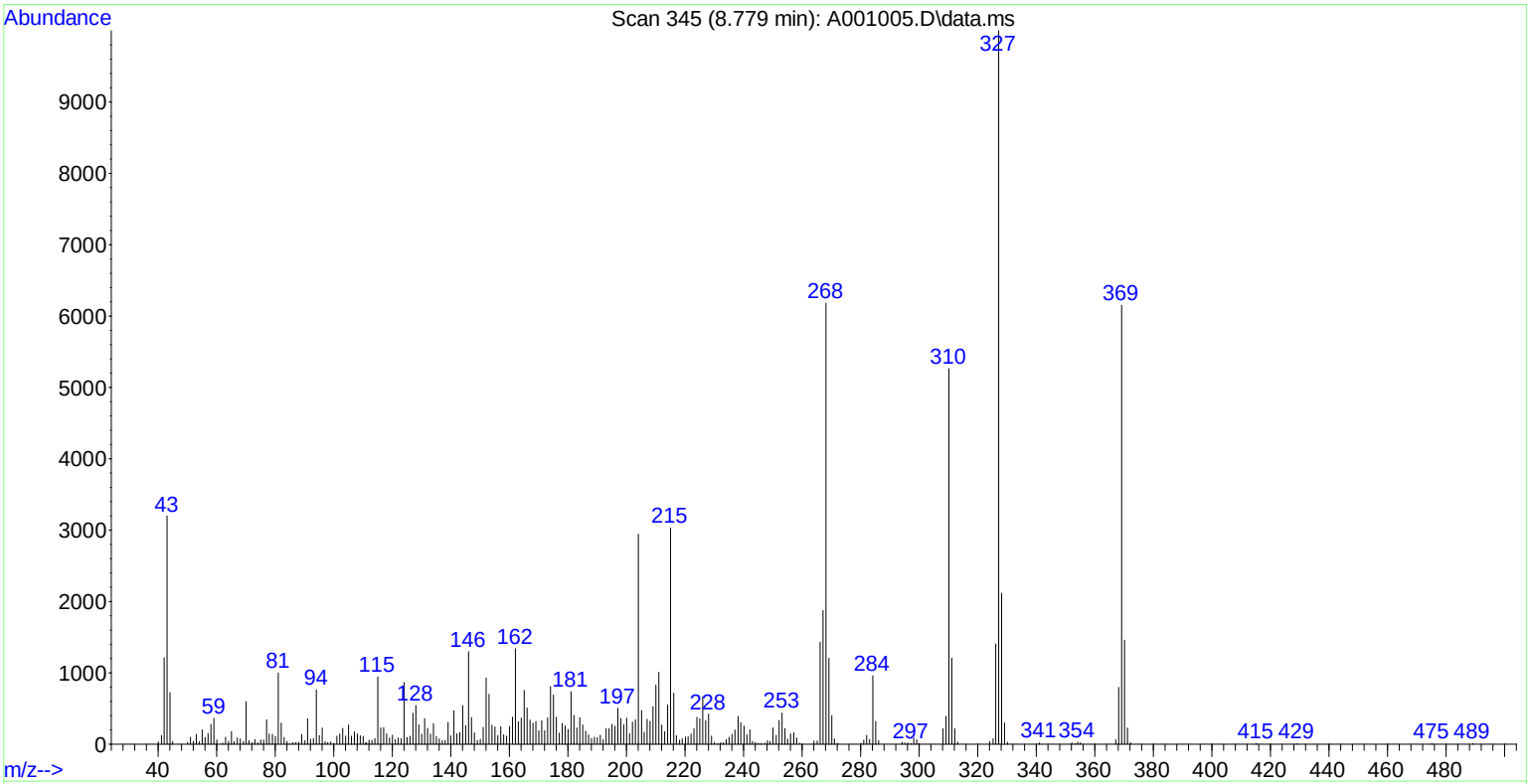


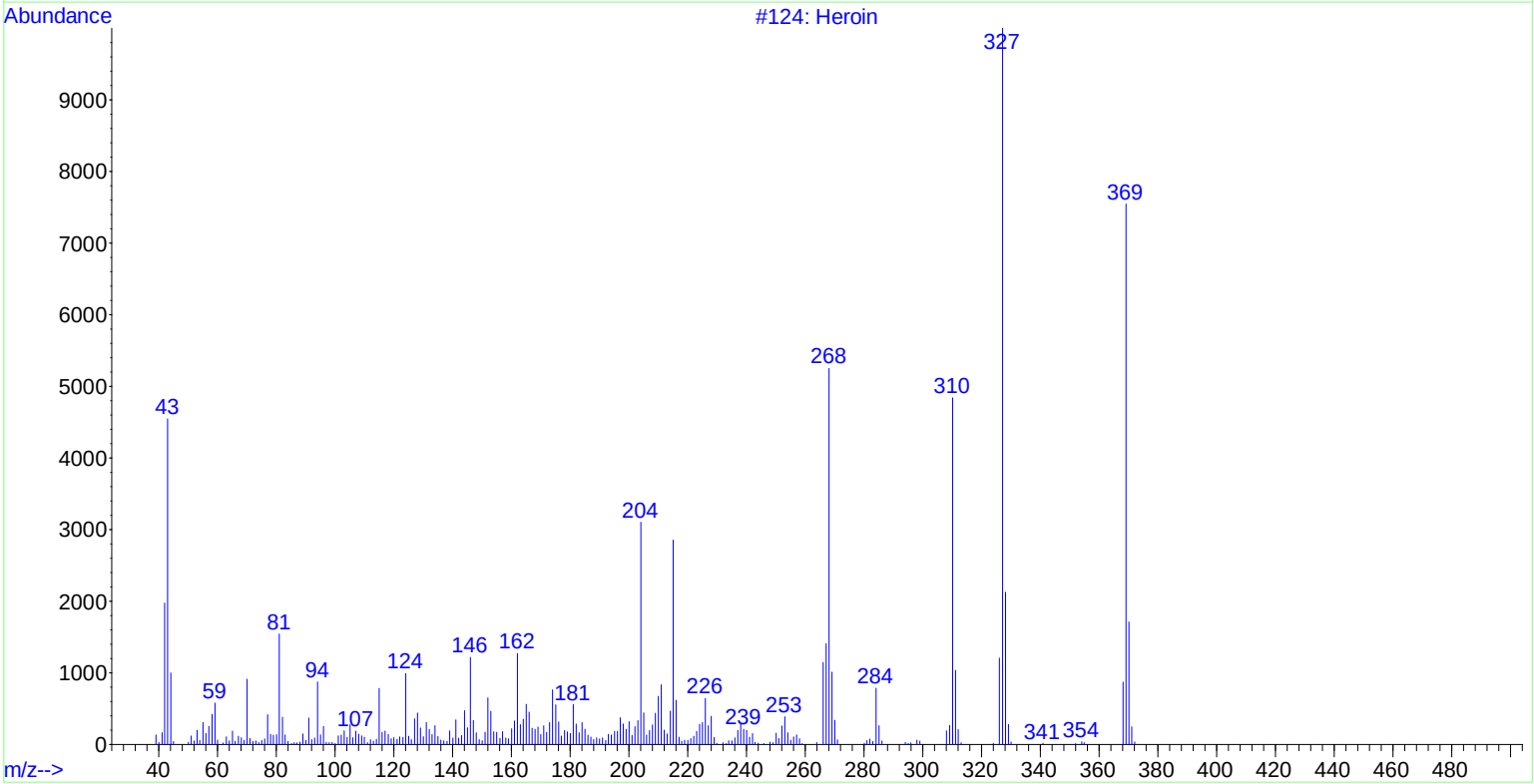
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Instrument : SD GCMS 1
Acquired : 12 May 2025 8:54 using AcqMethod BCCL GENDRUG METHOD.M
Sample Name: CAYMAN GC/MS MIX 3 (R-24-060) 000002665 -KB 5/12/2025
Misc Info : In ACN



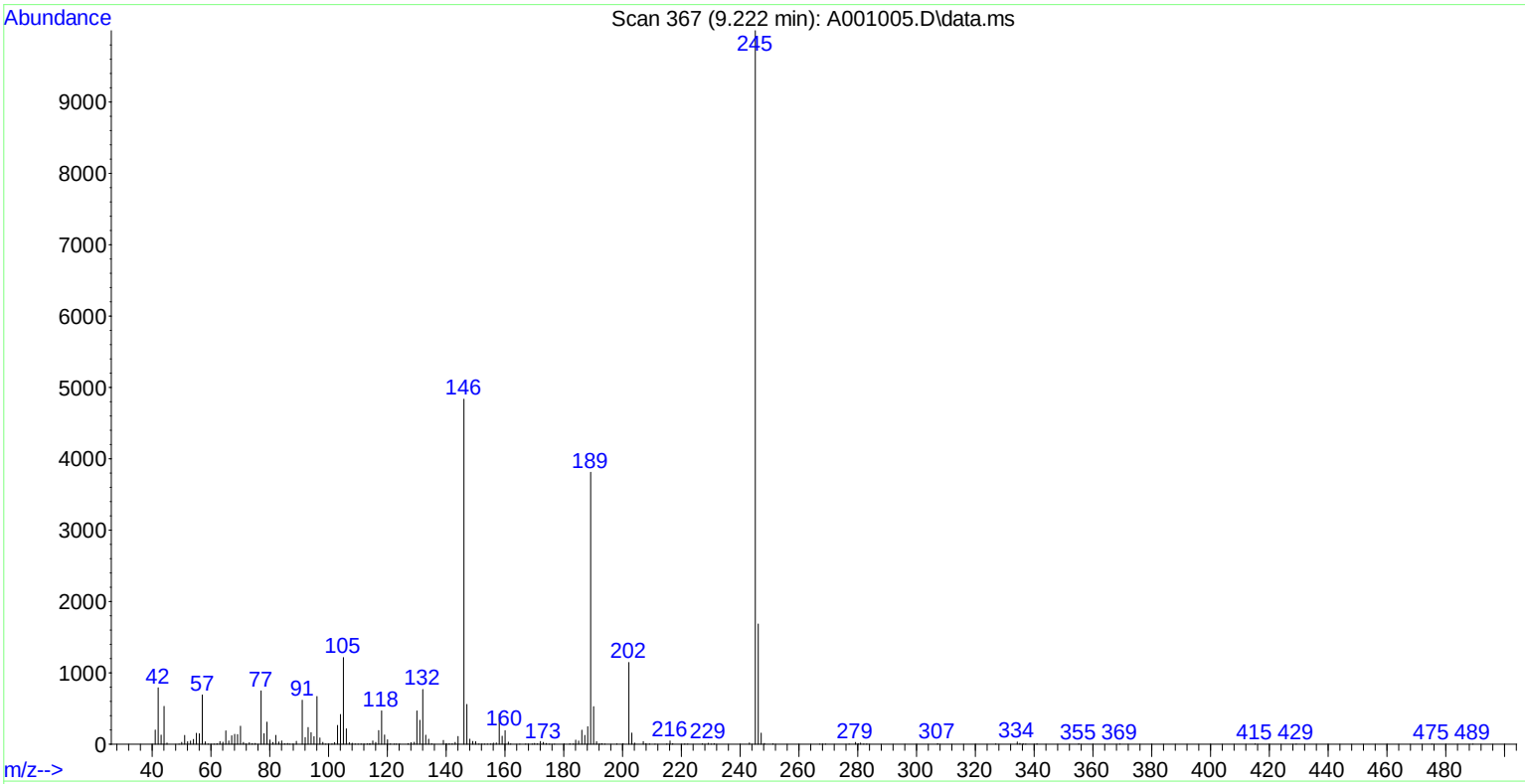


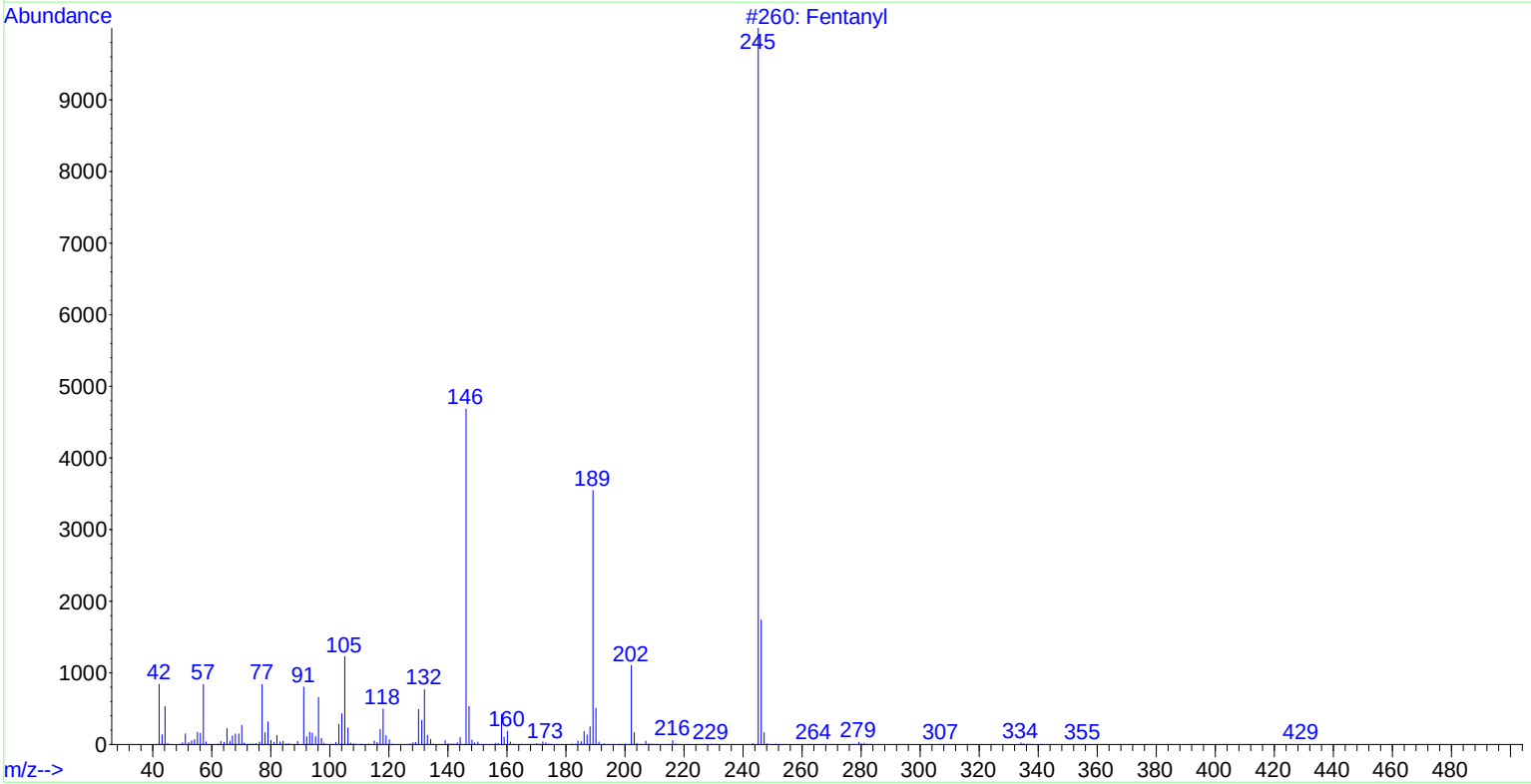
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... 2025\051225\A001005.D
Operator : AGILENT SD GCMS #1
Instrument : SD GCMS 1
Acquired : 12 May 2025 8:54 using AcqMethod BCCL GENDRUG METHOD.M
Sample Name: CAYMAN GC/MS MIX 3 (R-24-060) 000002665 -KB 5/12/2025
Misc Info : In ACN



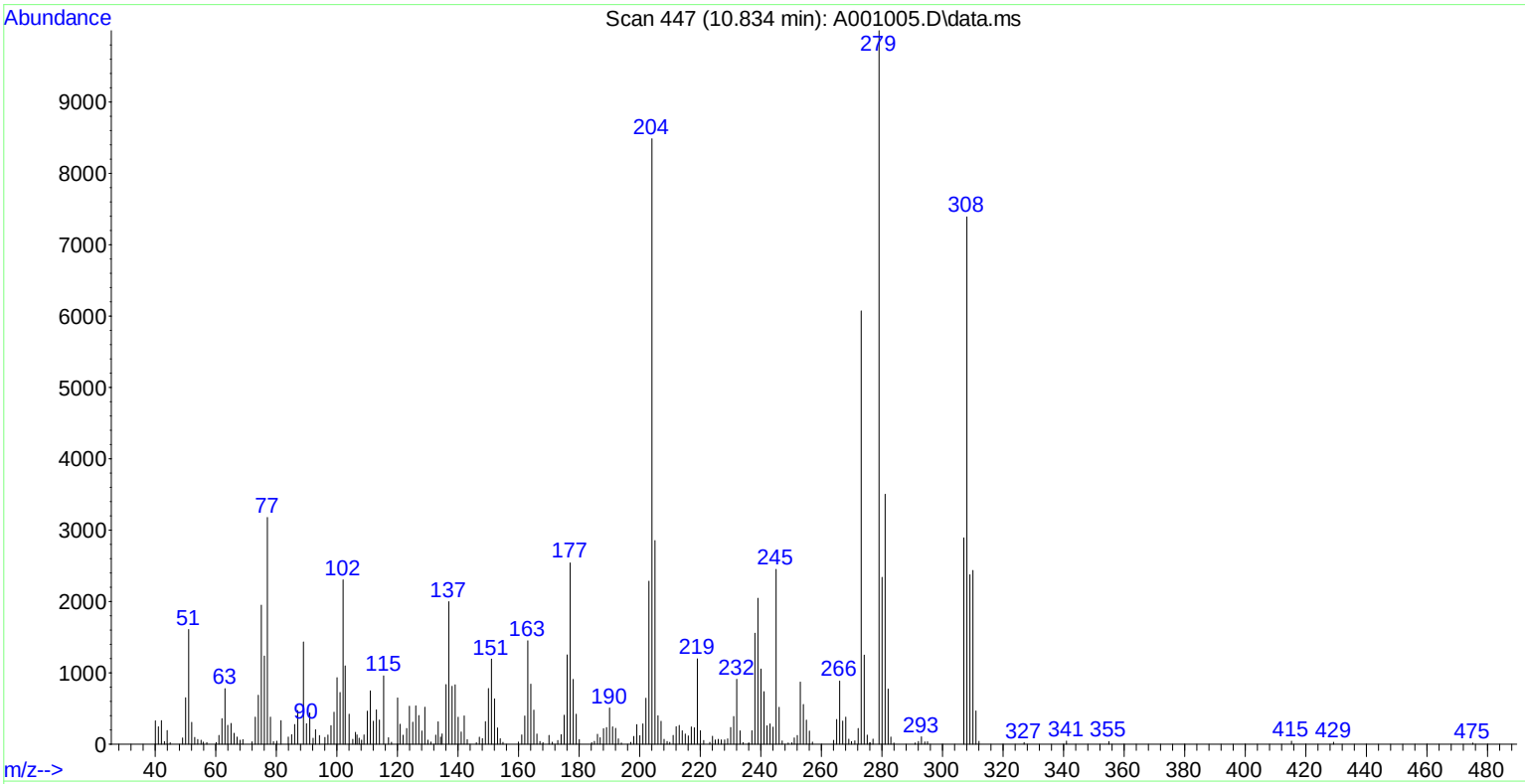


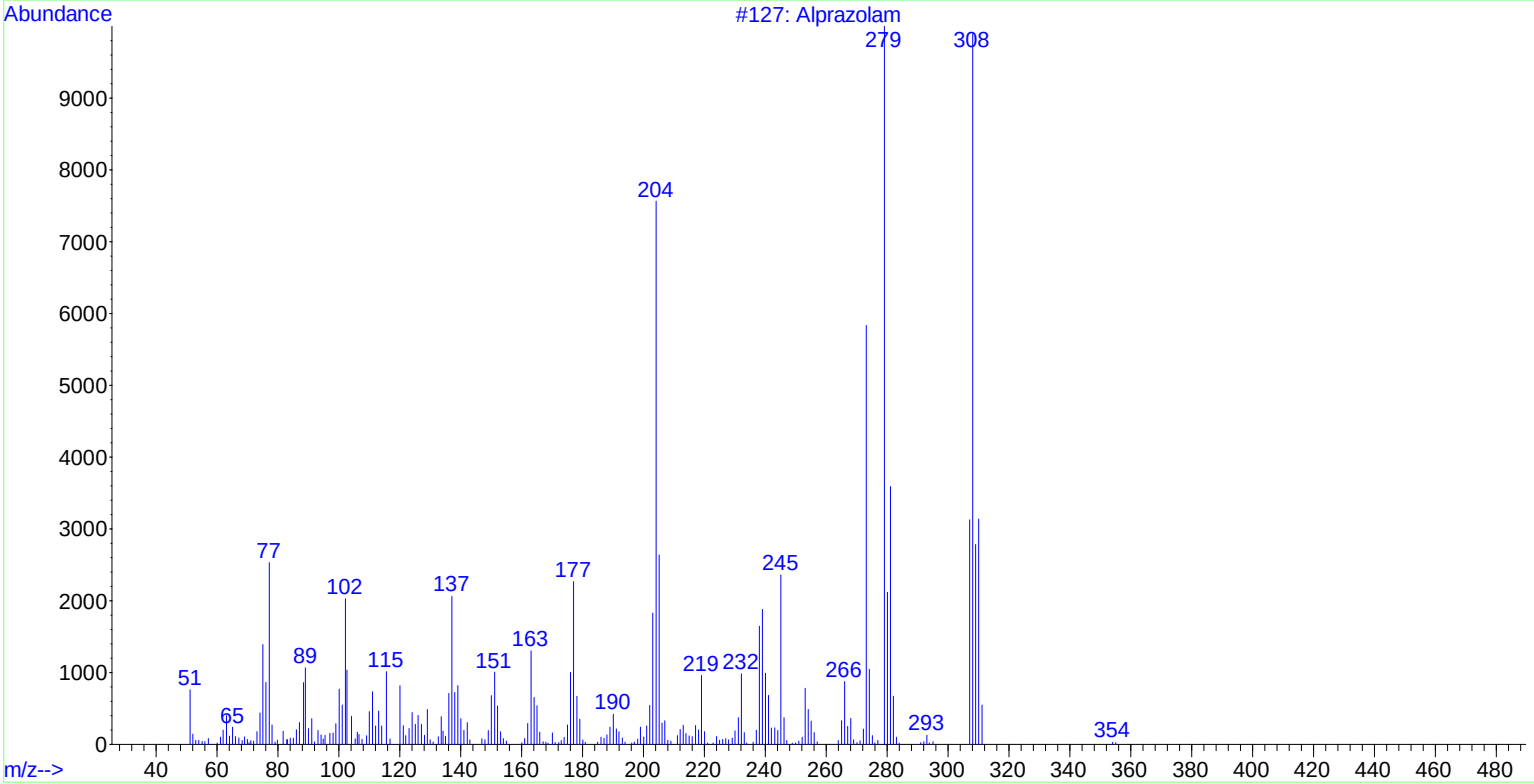
File :D:\GCMS1Data\Stds and Chemical Verification\Weekly Check Mix
... 2025\051225\A001005.D
Operator : AGILENT SD GCMS #1
Instrument : SD GCMS 1
Acquired : 12 May 2025 8:54 using AcqMethod BCCL GENDRUG METHOD.M
Sample Name: CAYMAN GC/MS MIX 3 (R-24-060) 000002665 -KB 5/12/2025
Misc Info : In ACN



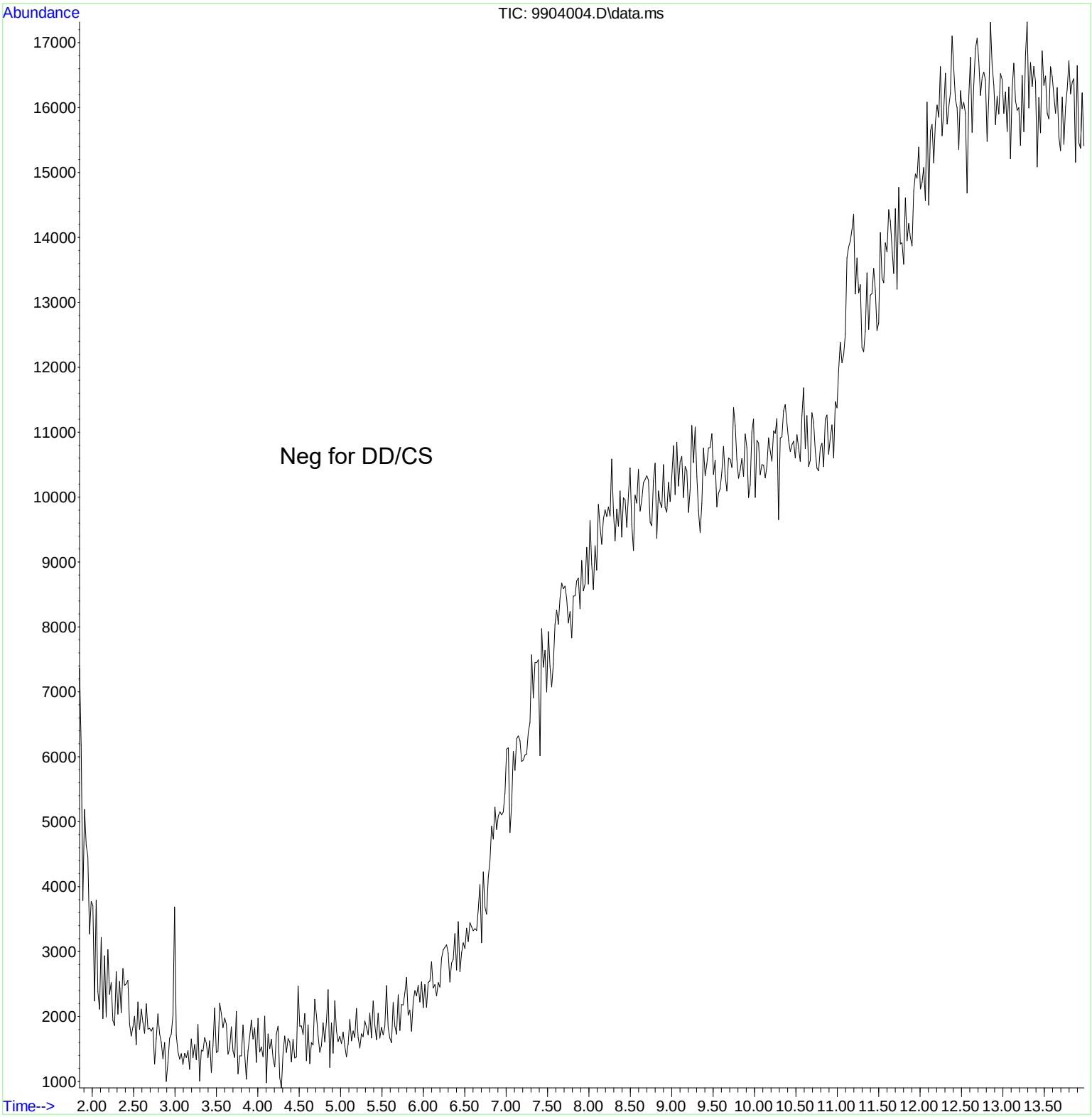


File :D:\GCMS1Data\Stds and Chemical Verification\Weekly Check Mix
... 2025\051225\A001005.D
Operator : AGILENT SD GCMS #1
Instrument : SD GCMS 1
Acquired : 12 May 2025 8:54 using AcqMethod BCCL GENDRUG METHOD.M
Sample Name: CAYMAN GC/MS MIX 3 (R-24-060) 000002665 -KB 5/12/2025
Misc Info : In ACN

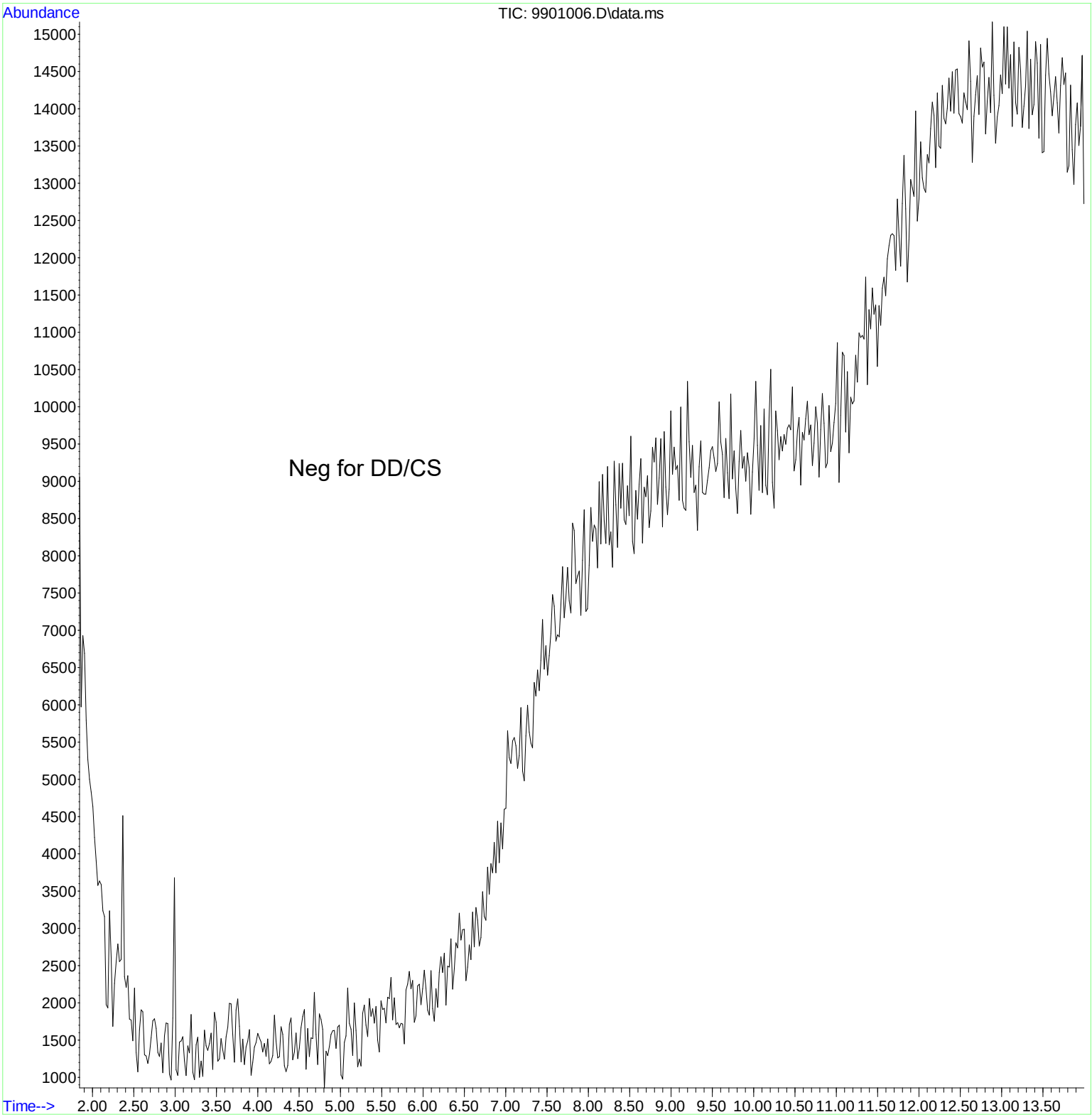




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... 2025\051225\9904004.D
Operator : AGILENT SD GCMS #1
Instrument : SD GCMS 1
Acquired : 12 May 2025 8:37 using AcqMethod BCCL GENDRUG METHOD.M
Sample Name: BLANK PRIOR TO CAYMAN GC/MS 000002664 -KB 5/12/2025
Misc Info : ACN (C-19-0068)



File :D:\GCMS1Data\Stds and Chemical Verification\Weekly Check Mix
... 2025\051225\9901006.D
Operator : AGILENT SD GCMS #1
Instrument : SD GCMS 1
Acquired : 12 May 2025 9:12 using AcqMethod BCCL GENDRUG METHOD.M
Sample Name: BLANK - INSTRUMENT READY 000002664 -KB 5/12/2025
Misc Info : ACN (C-19-0068)

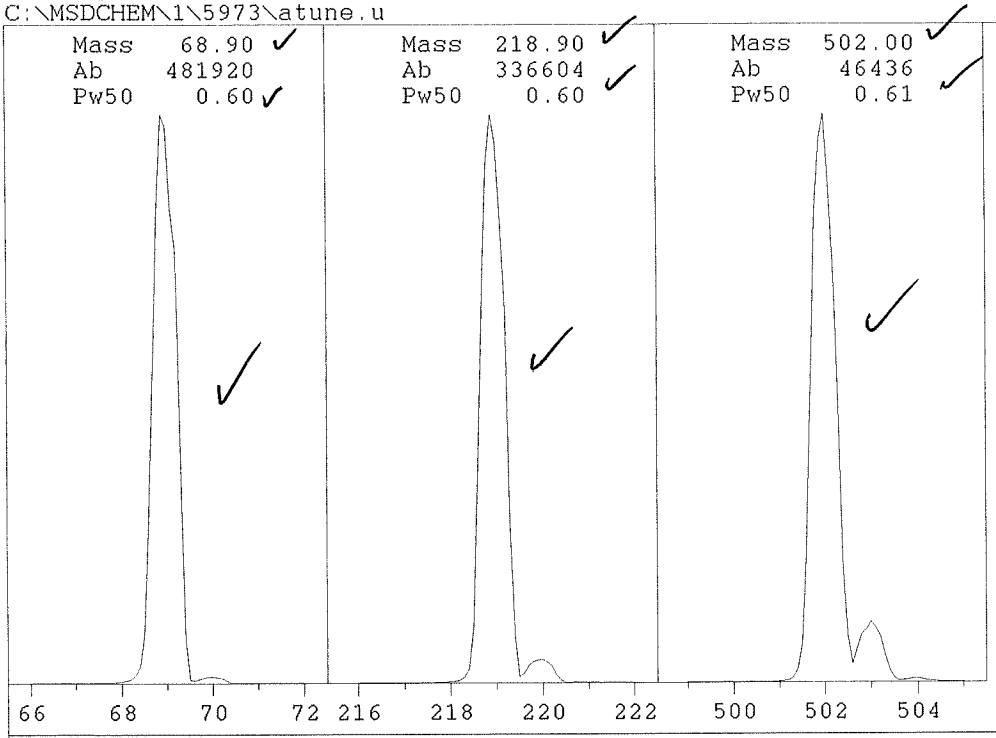


5973 Autotune

Mon May 19 11:05:19 2025
C:\MSDCHEM\1\5973\atune.u

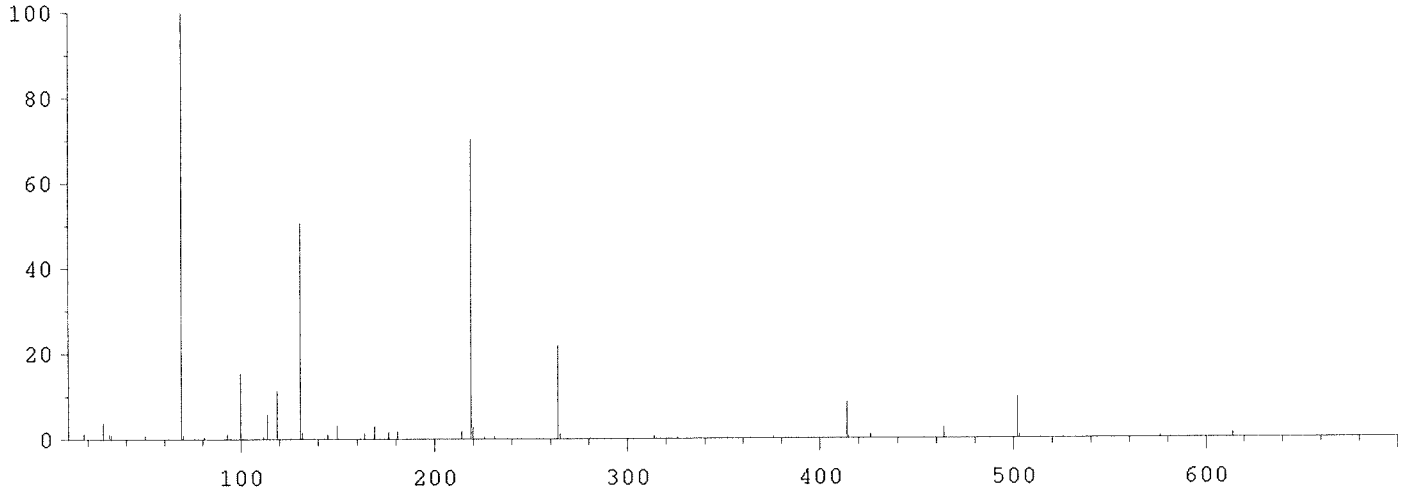
Instrument: SD GCMS 1

KB
OK



Ion Pol	POS	MassGain	367
		MassOffs	-12
Emission	34.6	AmuGain	2444
EIEnrgy	69.9	AmuOffs	123
Filament	1	Wid219	-0.029
		DC Pol	POS
Repeller	27.44		
IonFcus	90.2	HEDEnab	ON
EntLens	14.5	EMVolts	1624
EntOffs	19.07		
		Samples	8
PFTBA	OPEN	Averages	3
		Stepsize	0.10
Zones:			
MS Source	230	TurboSpd	100
MS Quad	150		

Scan: 10.00 - 700.00 Samples: 8 Thresh: 100 Step: 0.10
140 peaks Base: 69.00 Abundance: 434048



Mass	Abund	Rel Abund	Iso Mass	Iso Abund	Iso Ratio
69.00	434048	100.00	70.00	5056	1.16
218.90	305664	70.42	219.90	13056	4.27
502.00	42192	9.72	503.00	4251	10.08

Air/Water Check: H2O~1.27% N2~3.74% O2~1.16% CO2~0.08% N2/H2O~293.96%

Column Flow: Front: 0.798 Back: 0 ml/min. Interface Temp: 280

Ramp Criteria:
Ion Focus Maximum 90 volts using ion 502; EM Gain 134937
Repeller Maximum 35 volts using ion 219;

MassGain Values @Samples: 366@3 366@2 366@1 366@0 367@FS

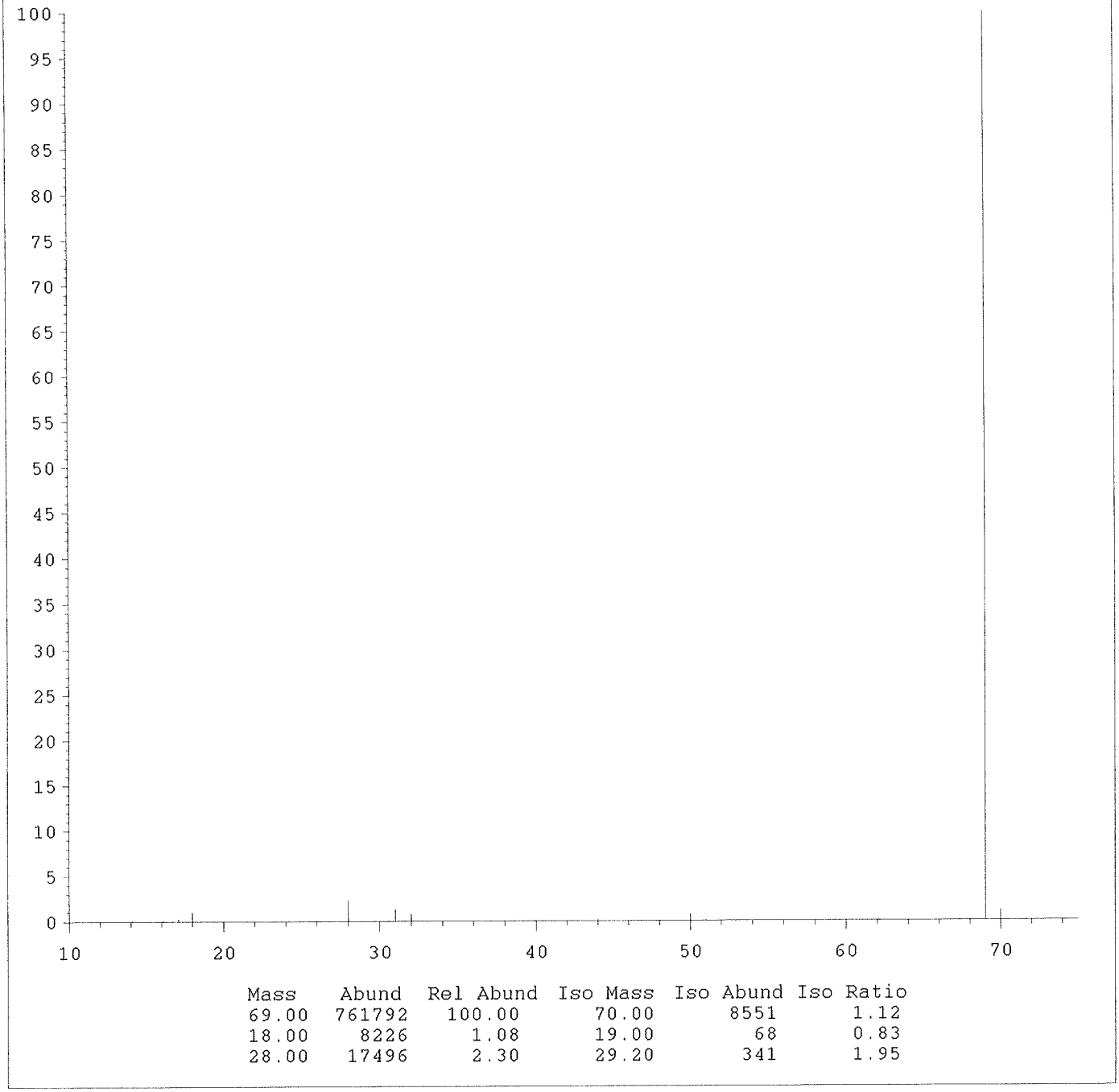
TARGET MASS:	50	69	131	219	414	502	800
Amu Offset:	123.0	123.0	123.0	123.0	123.0	123.0	123.0
Entrance Lens Offset:	19.1	19.1	19.1	19.1	19.1	19.1	19.1

597x Air and Water Check

KB
ok

Instrument: SD GCMS 1
Mon May 19 09:52:09 2025 C:\MSDCHEM\1\5973\

Scan: 10.00 - 75.00 Samples: 8 Thresh: 0 Step: 0.10
67 peaks Base: 69.00 Abundance: 761792



Mass	Abund	Rel Abund	Iso Mass	Iso Abund	Iso Ratio
69.00	761792	100.00	70.00	8551	1.12
18.00	8226	1.08	19.00	68	0.83
28.00	17496	2.30	29.20	341	1.95

Current Params used: atune.u

Relative abundances:

18/69 =	1.08 ✓	Water%
28/69 =	2.30 ✓	Nitrogen%
32/69 =	0.89 ✓	Oxygen%
44/69 =	0.24	Carbon Dioxide%
28/18 =	212.69	Nitrogen/Water%

System Verification - Tune (Detector Optimization) Portion

Instrument Name	: SD GCMS 1	
DC Polarity	: Positive	
Filament	: 1	
BasePeak should be 69 or 219		Ok
Position of mass 69	69.00	Ok
Position of mass 219	218.90	Ok
Position of mass 502	502.00	Ok
Position of isotope mass 70	69.99	Ok
Position of isotope mass 220	219.91	Ok
Position of isotope mass 503	502.99	Ok
Ratio of mass 70 to mass 69(0.5 - 1.6%)	1.08	Ok
Ratio of mass 220 to mass 219(3.2 - 5.4%)	4.31	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	71.14	Ok
Ratio of 502 to 69 should be > 2.4% and is	9.96	Ok
Mass 69 Precursor (<= 3%)	0.17	Ok
Mass 219 Precursor (<= 6%)	0.29	Ok
Mass 502 Precursor (<= 12%)	0.47	Ok
Testing for a leak in the system		
Ratio of 18 to 69 (<20%)	1.28	Ok
Ratio of 28 to 69 (<10%)	4.07	Ok
Electron Multiplier Voltage	1624	Ok

Tune portion of System Verification passed.

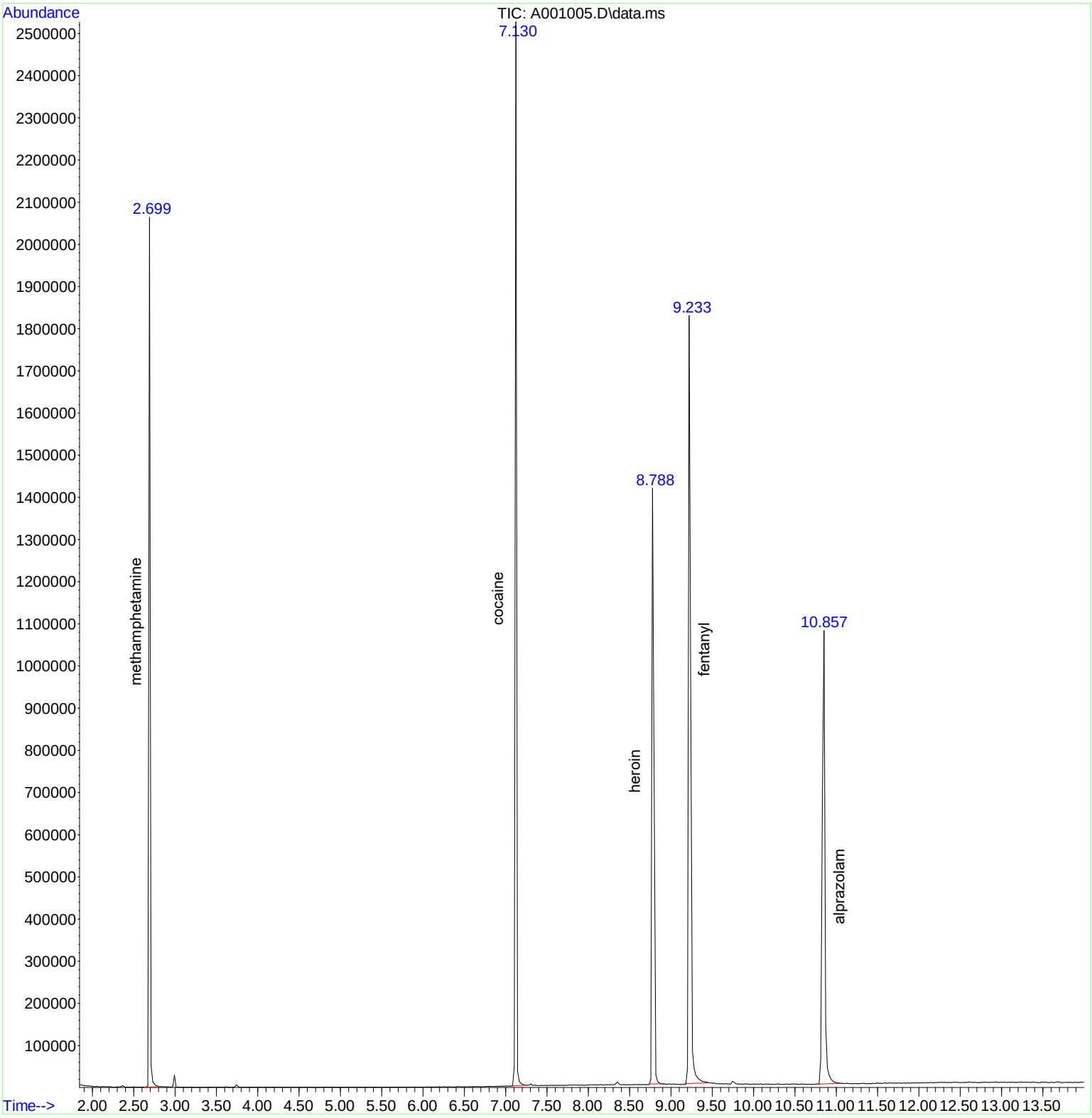
BCCL GC/MS #1
Retention Times for the Week of:

05/19/2025 - 05/25/2025

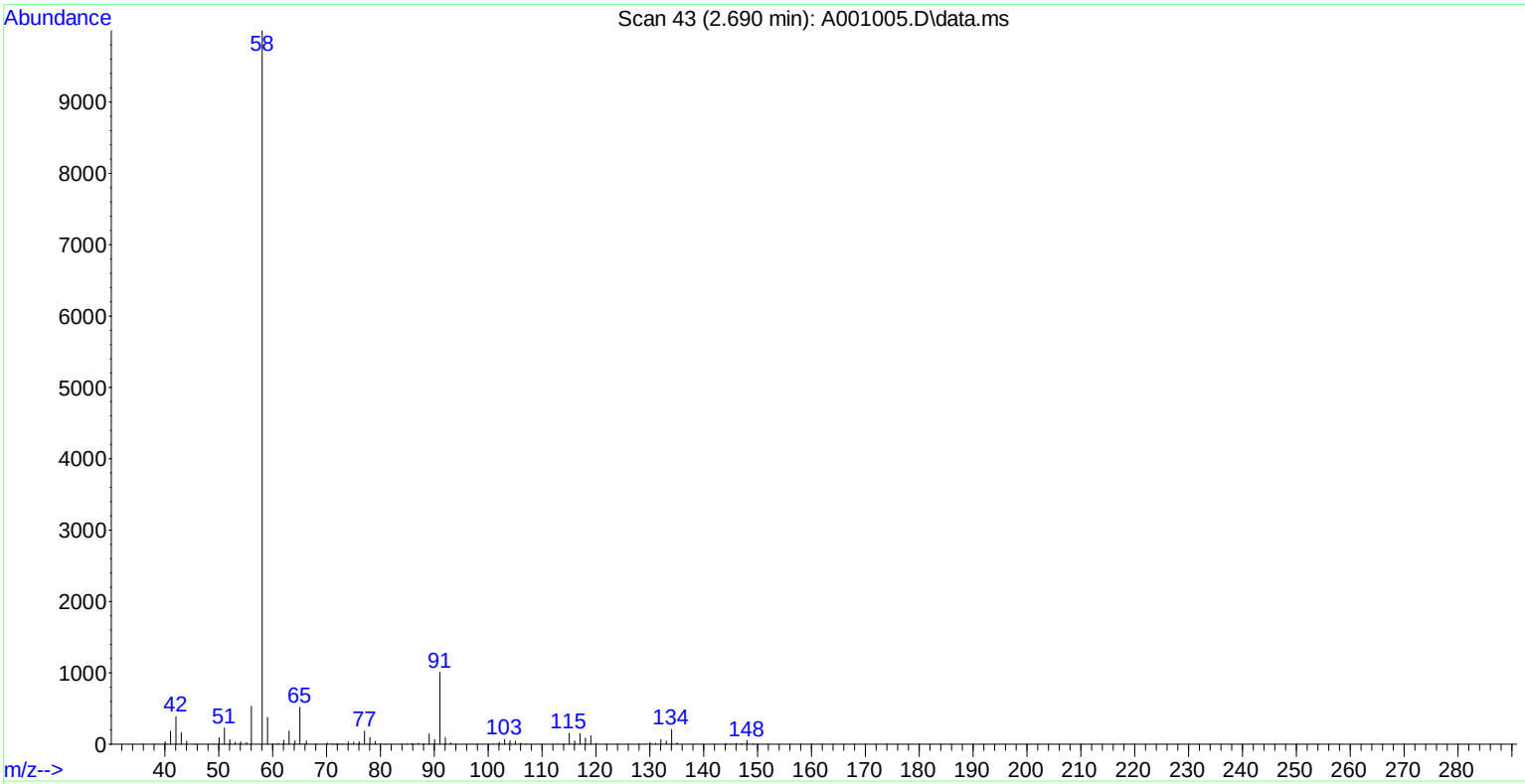
[x] **Tune: 05/19/2025 - Autotune KB**

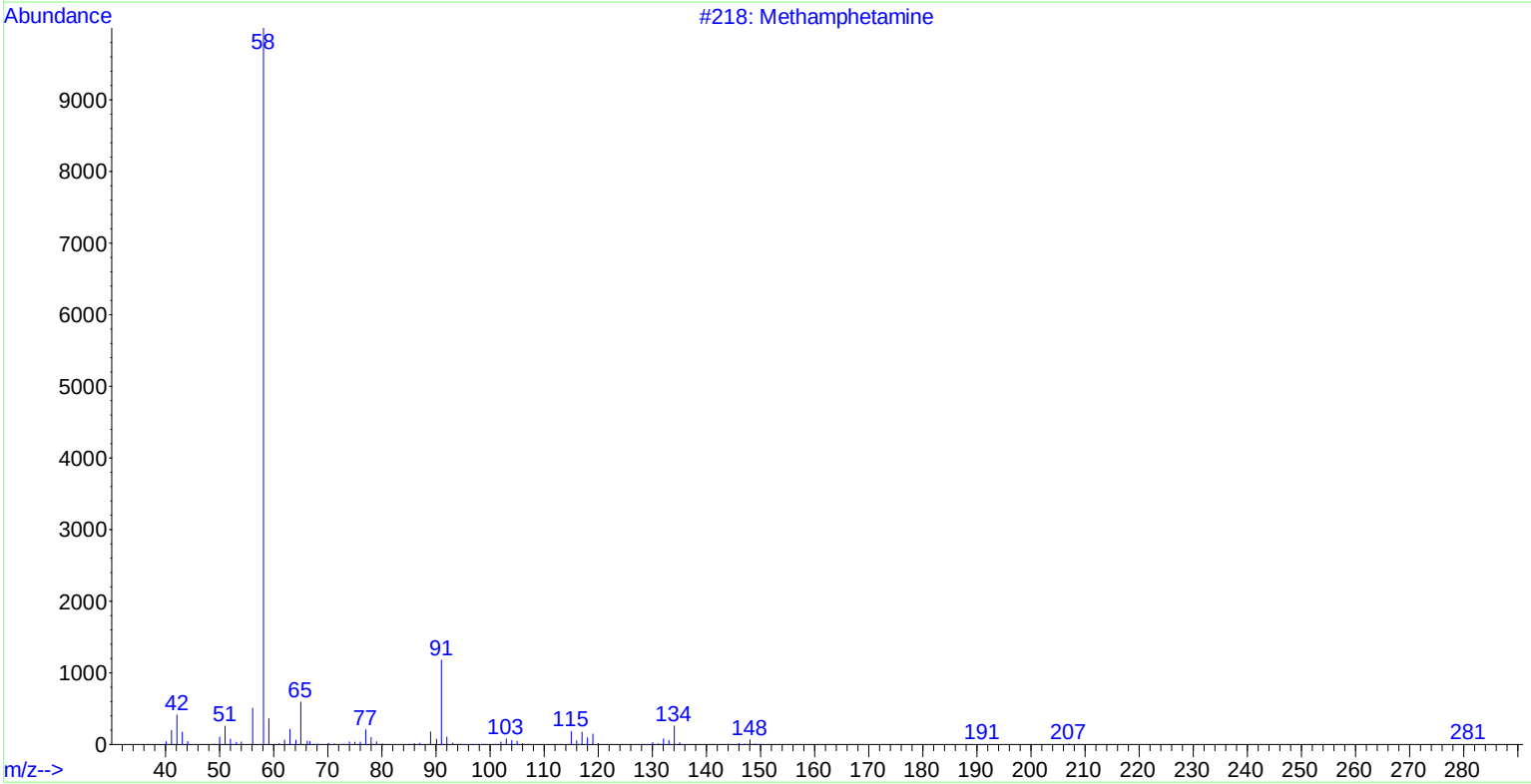
Standard	Standard #	Method	Retention Time	1% Window	
Methamphetamine	R-24-060	BCCL GenDrug	2.699	2.672	2.725
Cocaine	R-24-060	BCCL GenDrug	7.130	7.058	7.201
Heroin	R-24-060	BCCL GenDrug	8.788	8.700	8.875
Fentanyl	R-24-060	BCCL GenDrug	9.233	9.140	9.325
Alprazolam	R-24-060	BCCL GenDrug	10.857	10.748	10.965
Codeine	R-23-022	BCCL GenDrug	7.878	7.799	7.956
Promethazine	R-24-022	BCCL GenDrug	7.432	7.357	7.506

File :D:\GCMS1Data\Stds and Chemical Verification\Weekly Check Mix
... 2025\051925\A001005.D
Operator : AGILENT SD GCMS #1
Instrument : SD GCMS 1
Acquired : 19 May 2025 12:10 using AcqMethod BCCL GENDRUG METHOD.M
Sample Name: CAYMAN GC/MS MIX 3 (R-24-060) 000002665 -KB 5/19/2024
Misc Info : In ACN

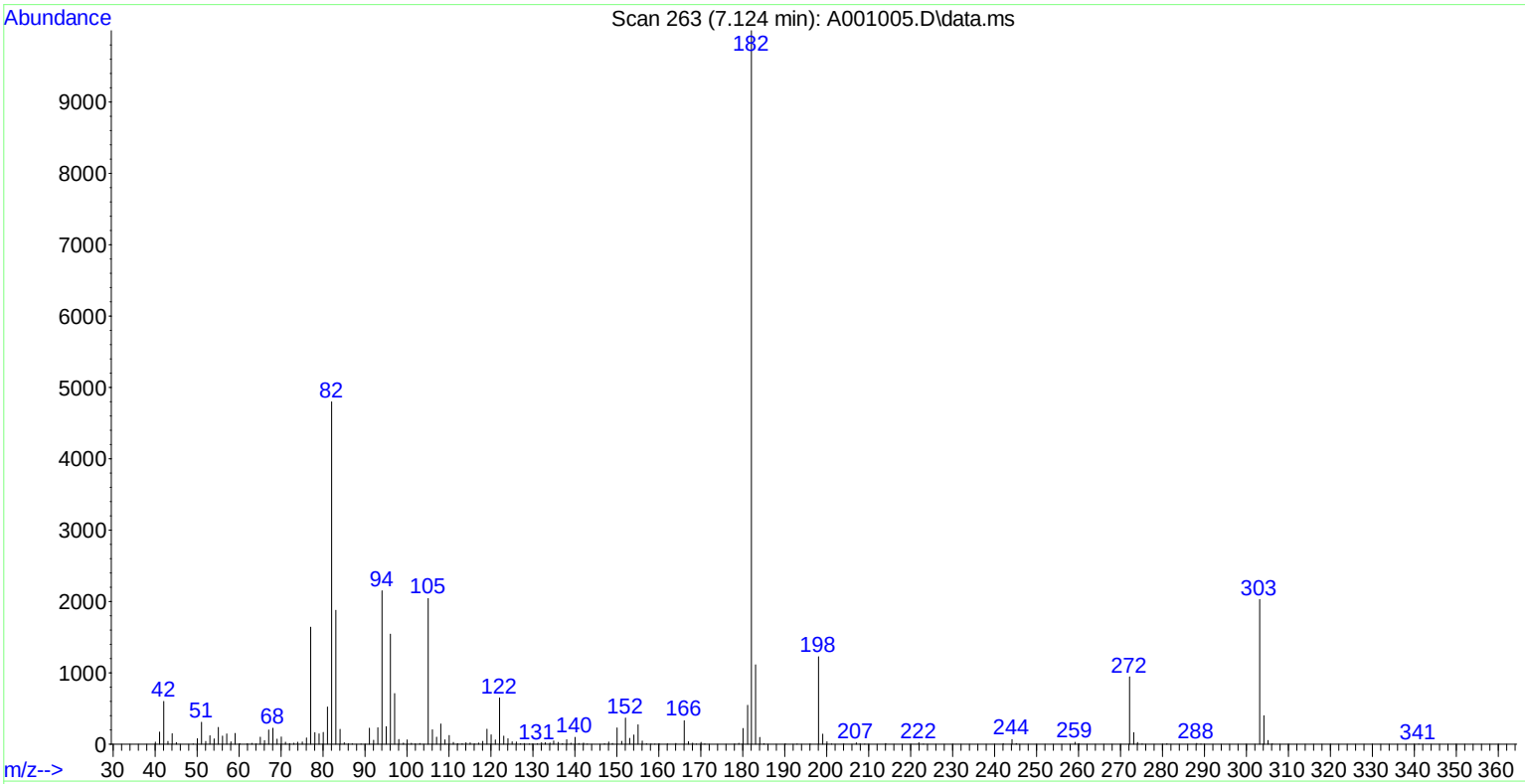


File :D:\GCMS1Data\Stds and Chemical Verification\Weekly Check Mix
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Operator : AGILENT SD GCMS #1
Instrument : SD GCMS 1
Acquired : 19 May 2025 12:10 using AcqMethod BCCL GENDRUG METHOD.M
Sample Name: CAYMAN GC/MS MIX 3 (R-24-060) 000002665 ✓ -KB 5/19/2024
Misc Info : In ACN

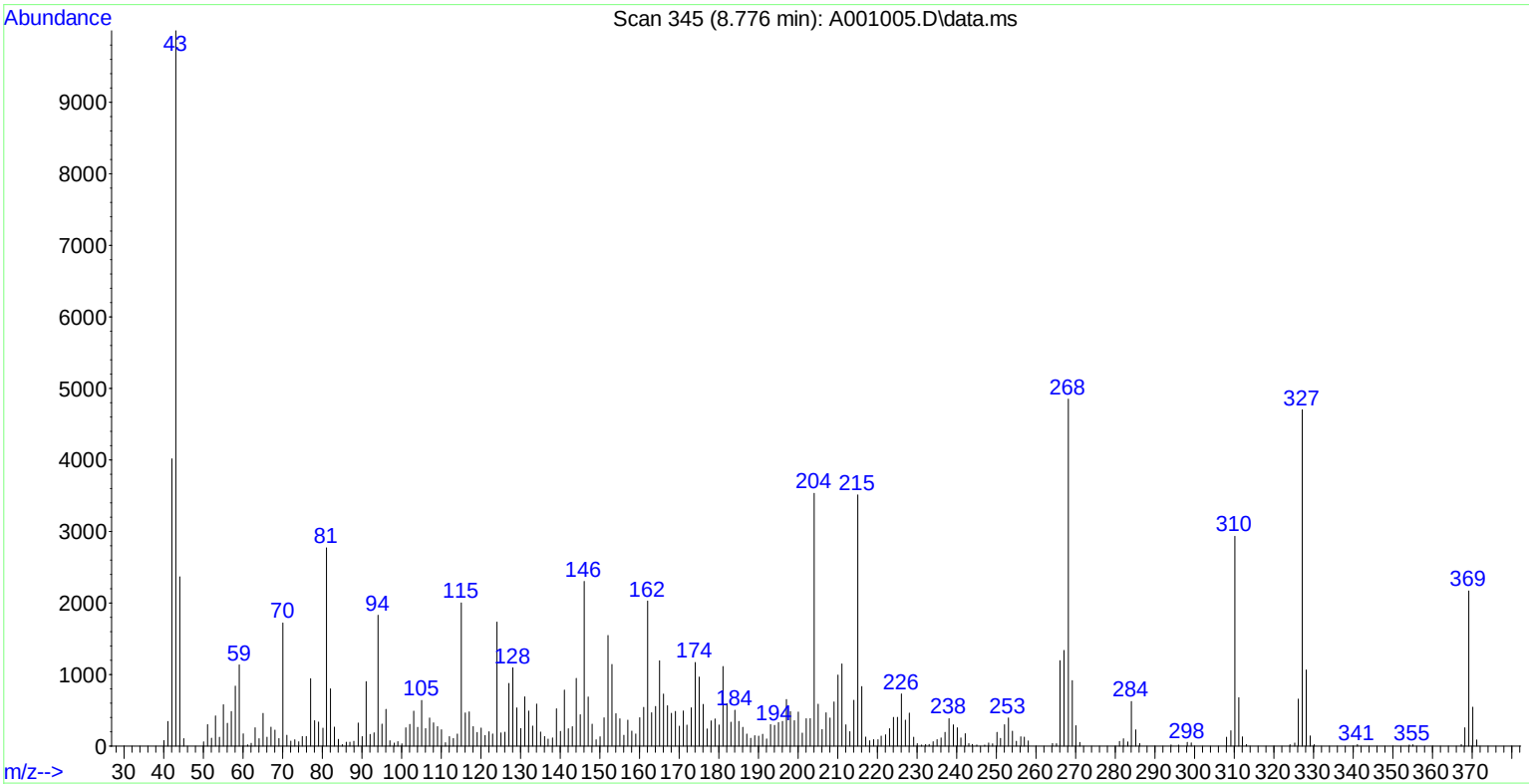


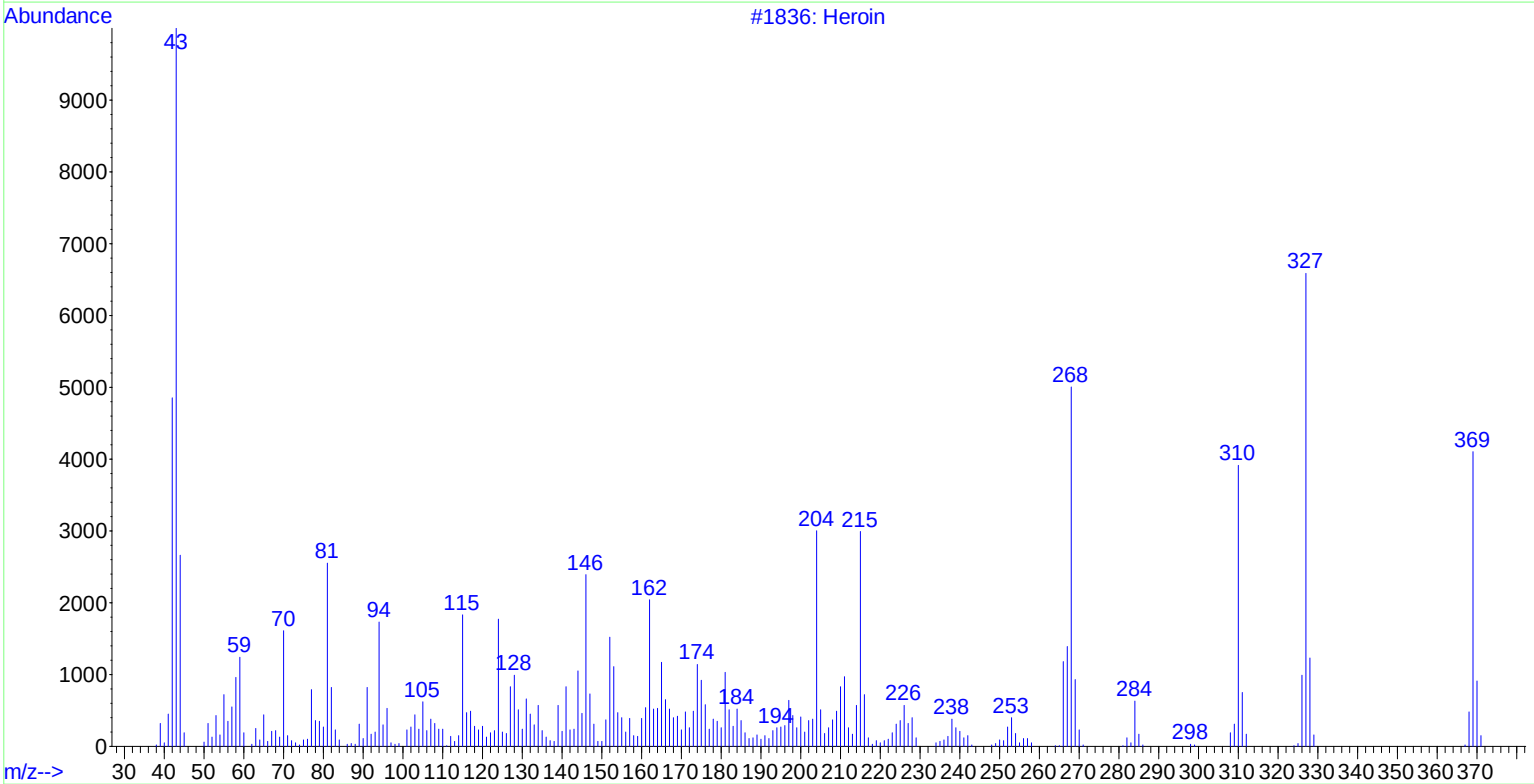


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... 2025\051925\A001005.D
Operator : AGILENT SD GCMS #1
Instrument : SD GCMS 1
Acquired : 19 May 2025 12:10 using AcqMethod BCCL GENDRUG METHOD.M
Sample Name: CAYMAN GC/MS MIX 3 (R-24-060) 000002665 ✓ -KB 5/19/2024
Misc Info : In ACN

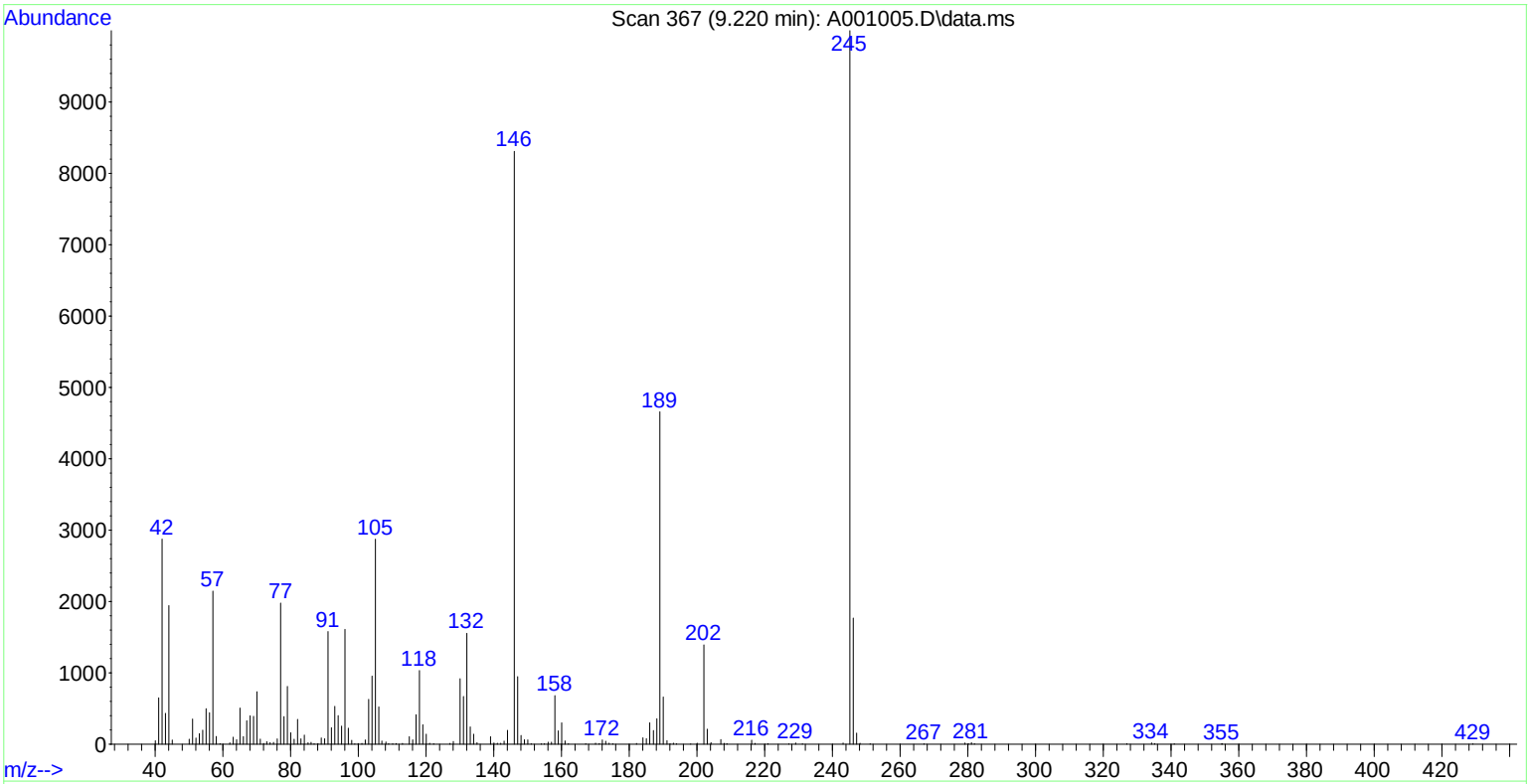


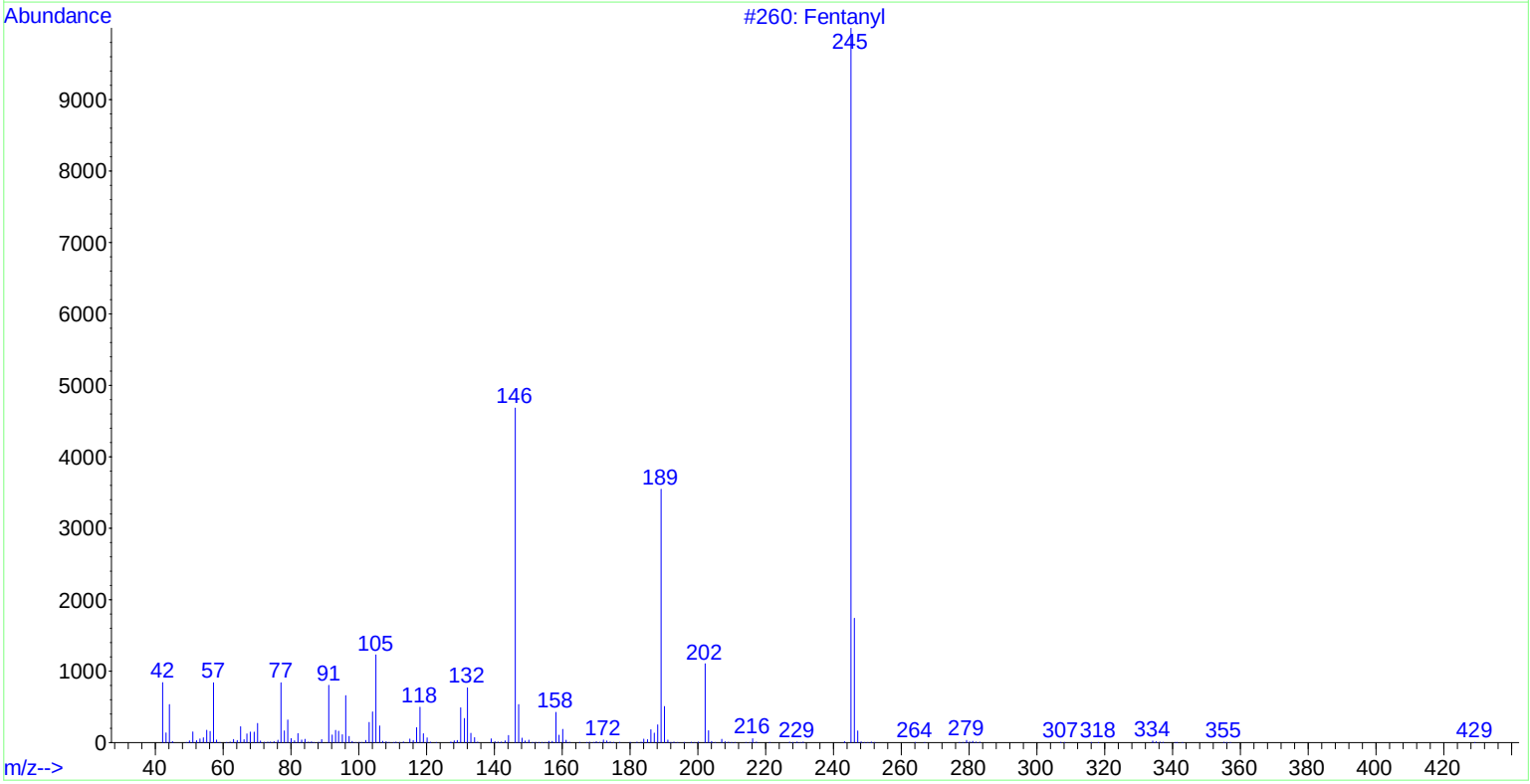
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... 2025\051925\A001005.D
Operator : AGILENT SD GCMS #1
Instrument : SD GCMS 1
Acquired : 19 May 2025 12:10 using AcqMethod BCCL GENDRUG METHOD.M
Sample Name: CAYMAN GC/MS MIX 3 (R-24-060) 000002665 ✓ -KB 5/19/2024
Misc Info : In ACN



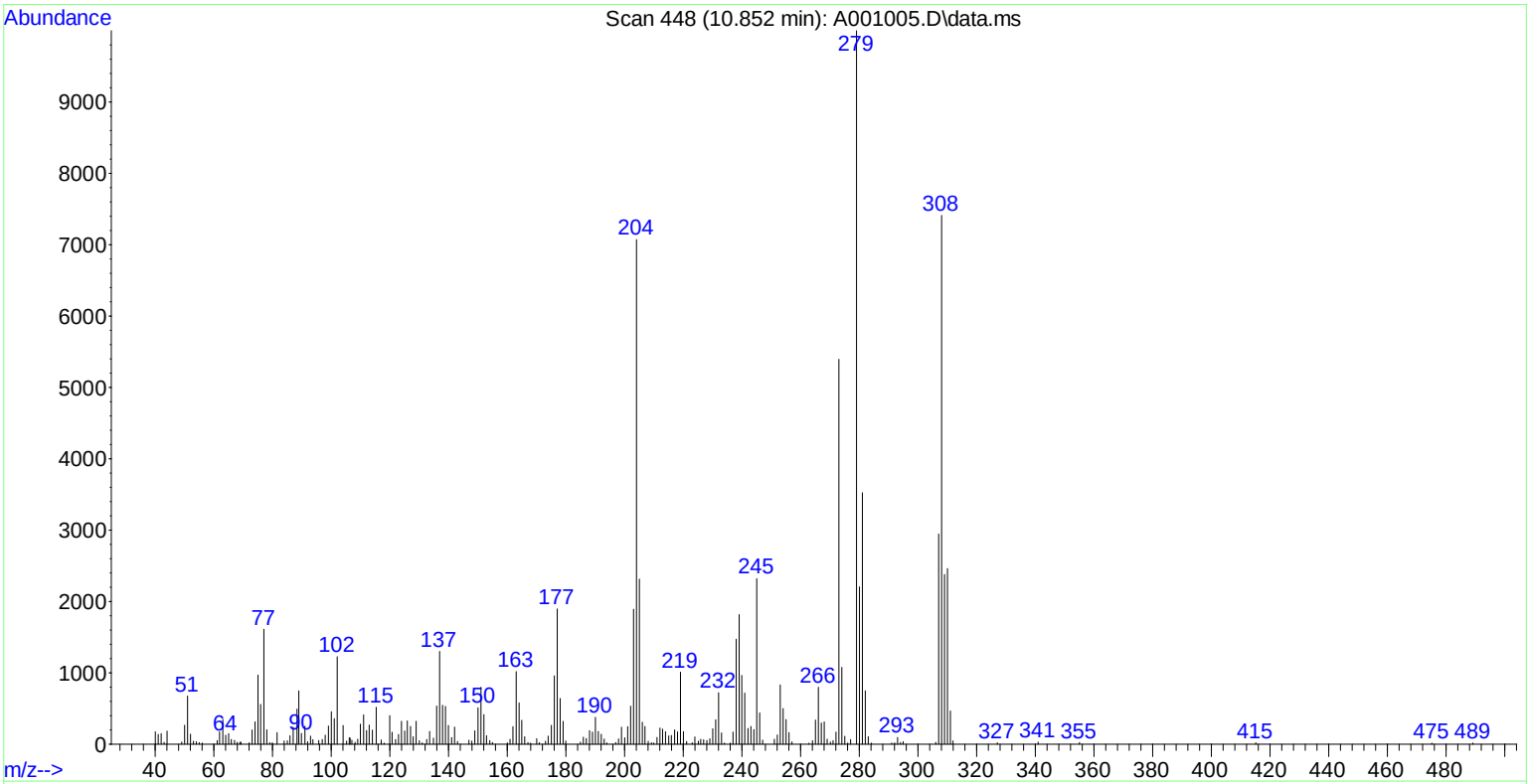


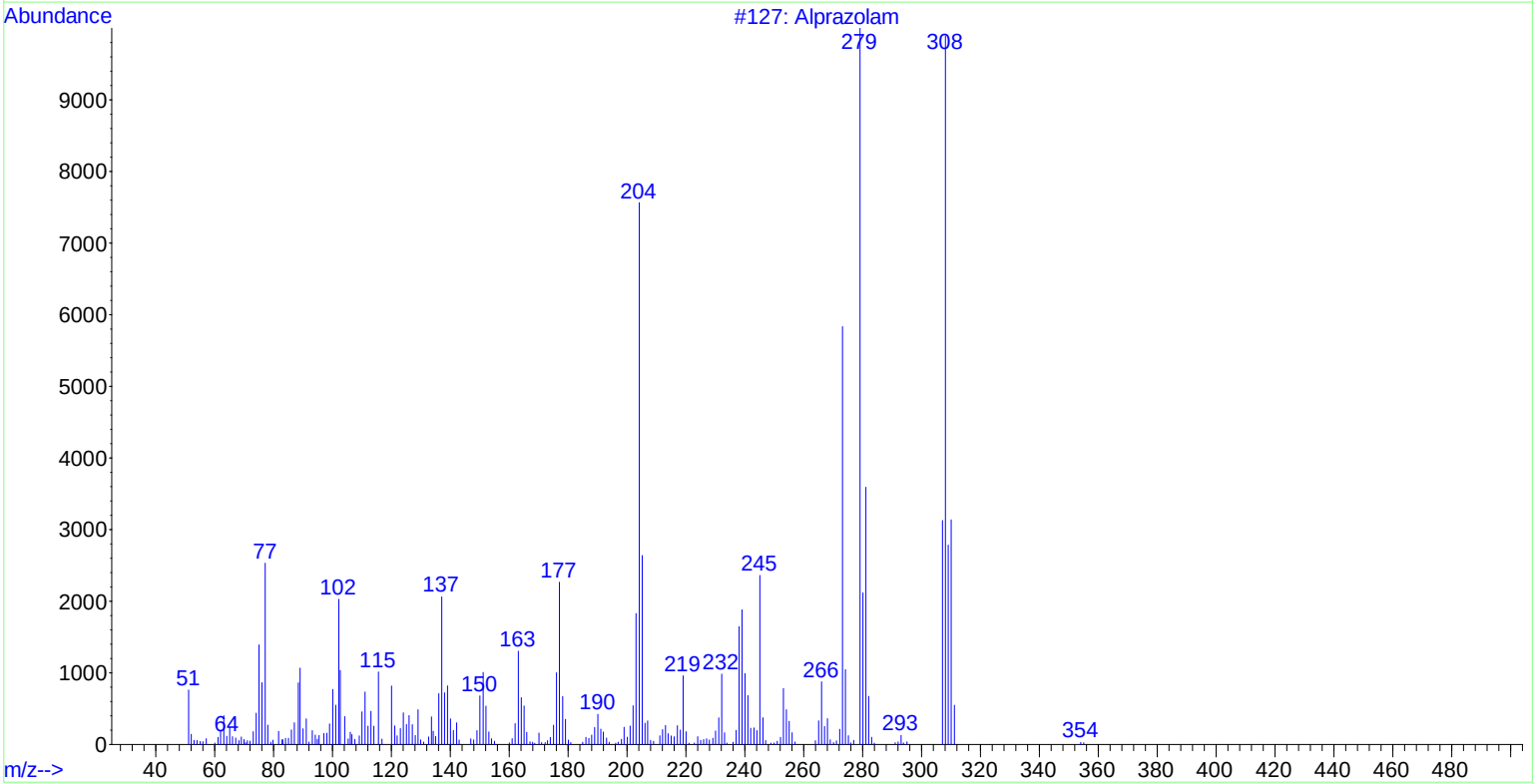
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... 2025\051925\A001005.D
Operator : AGILENT SD GCMS #1
Instrument : SD GCMS 1
Acquired : 19 May 2025 12:10 using AcqMethod BCCL GENDRUG METHOD.M
Sample Name: CAYMAN GC/MS MIX 3 (R-24-060) 000002665 ✓ -KB 5/19/2024
Misc Info : In ACN



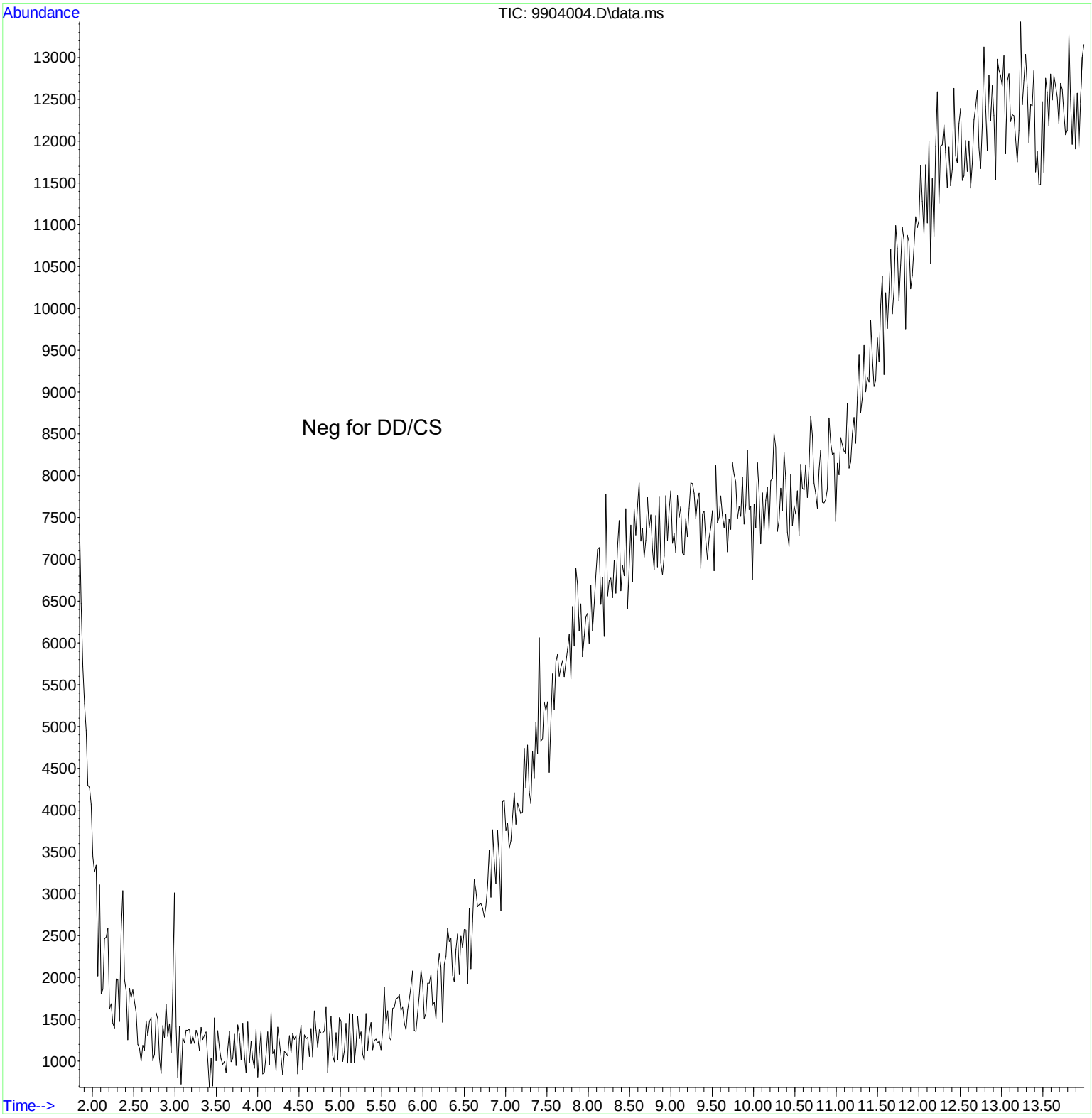


File :D:\GCMS1Data\Stds and Chemical Verification\Weekly Check Mix
... 2025\051925\A001005.D
Operator : AGILENT SD GCMS #1
Instrument : SD GCMS 1
Acquired : 19 May 2025 12:10 using AcqMethod BCCL GENDRUG METHOD.M
Sample Name: CAYMAN GC/MS MIX 3 (R-24-060) 000002665 ✓ -KB 5/19/2024
Misc Info : In ACN

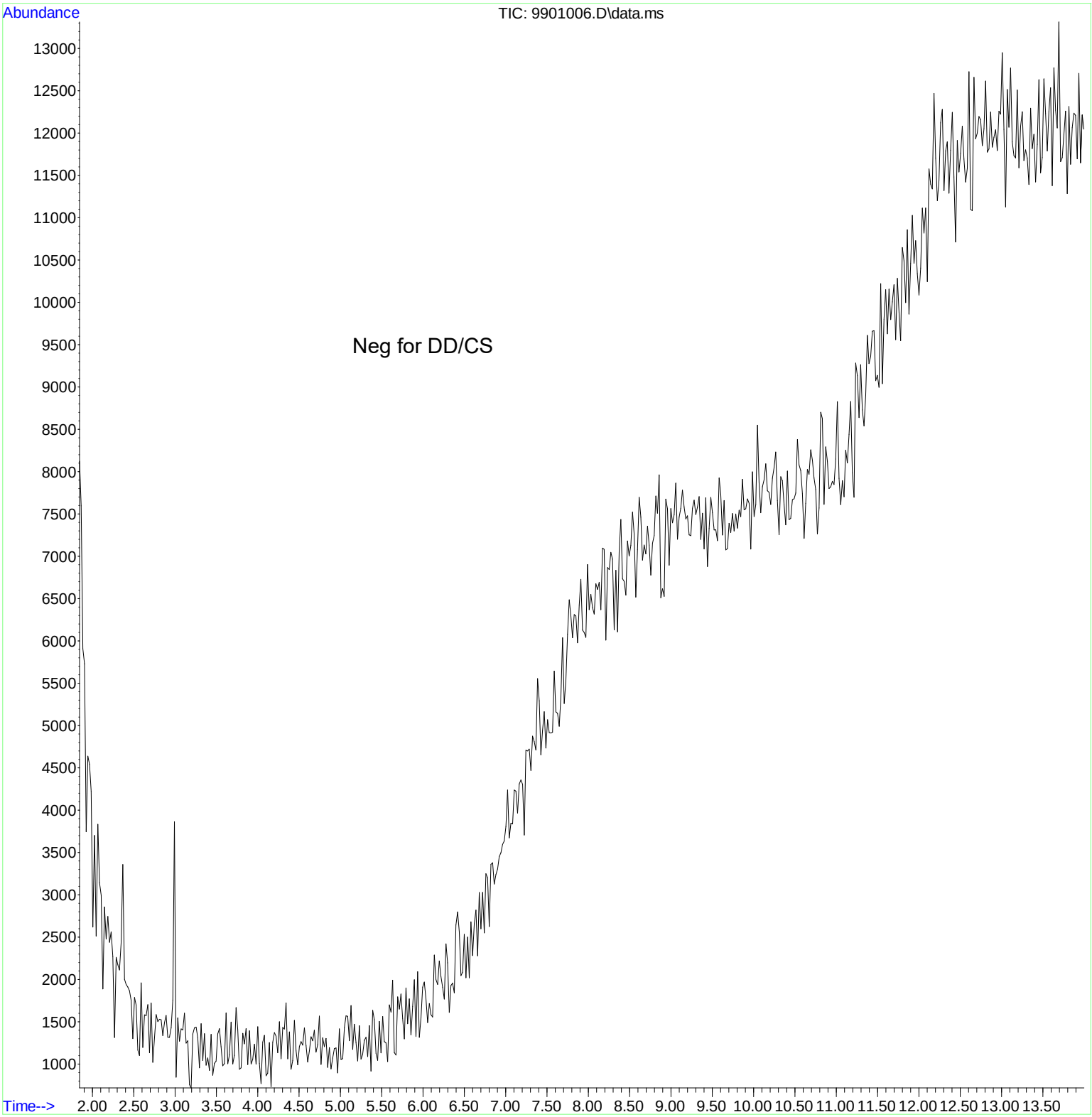




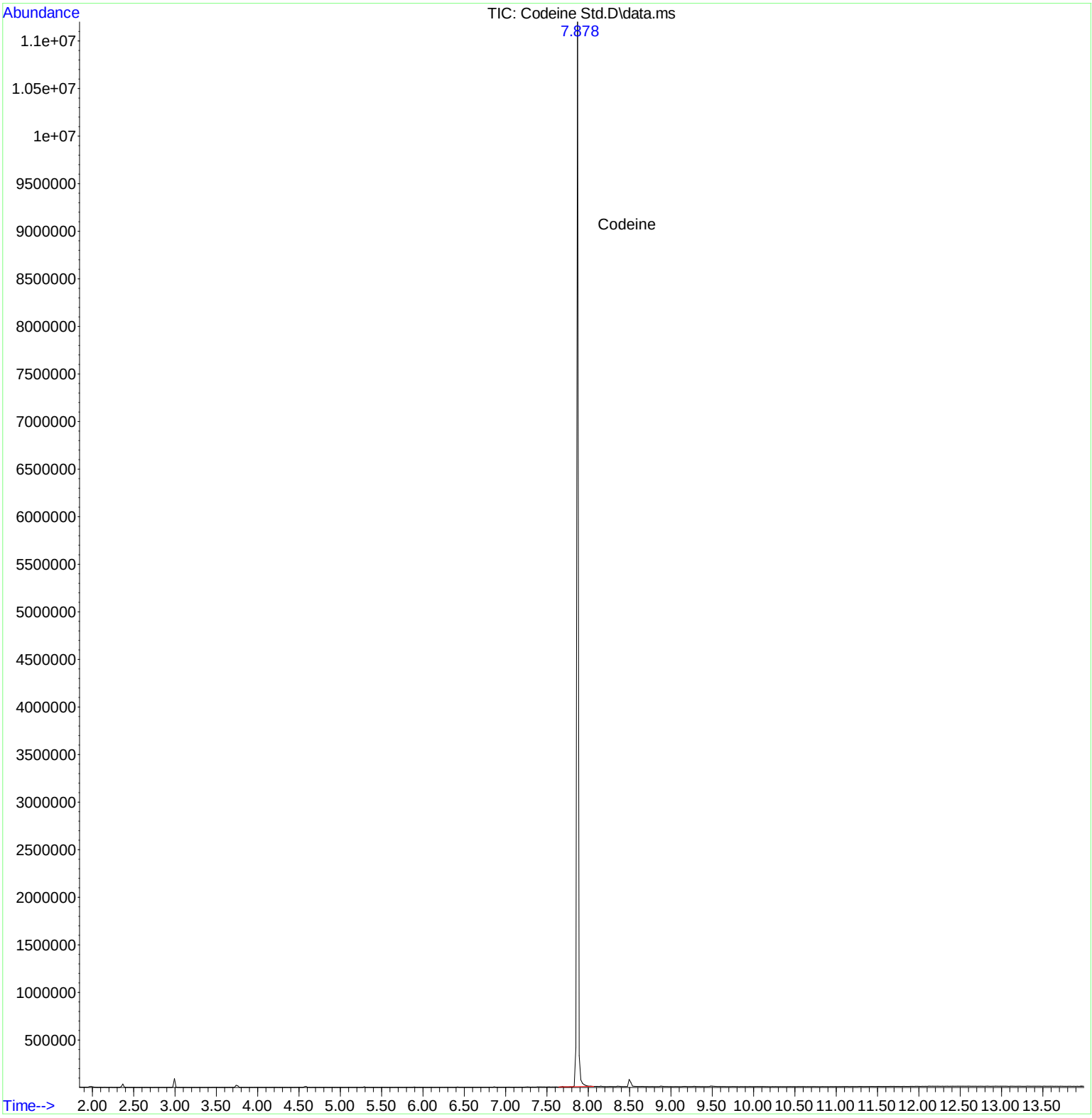
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... 2025\051925\9904004.D
Operator : AGILENT SD GCMS #1
Instrument : SD GCMS 1
Acquired : 19 May 2025 11:52 using AcqMethod BCCL GENDRUG METHOD.M
Sample Name: BLANK PRIOR TO CAYMAN GC/MS 000002664 ✓ -KB 5/19/2024
Misc Info : ACN (C-19-0068)



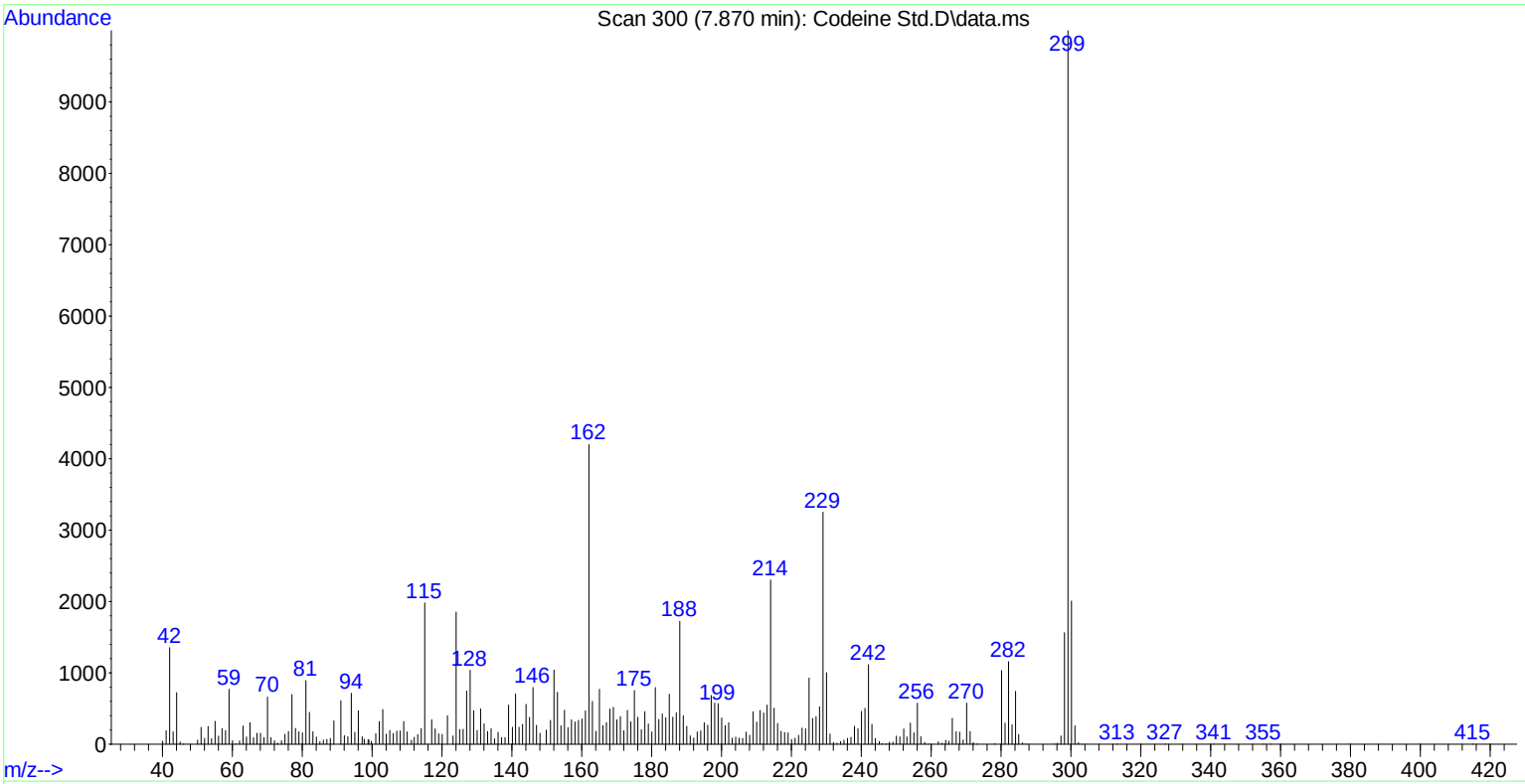
File :D:\GCMS1Data\Stds and Chemical Verification\Weekly Check Mix
... 2025\051925\9901006.D
Operator : AGILENT SD GCMS #1
Instrument : SD GCMS 1
Acquired : 19 May 2025 12:28 using AcqMethod BCCL GENDRUG METHOD.M
Sample Name: BLANK - INSTRUMENT READY 000002664 ✓ -KB 5/19/2024
Misc Info : ACN (C-19-0068)

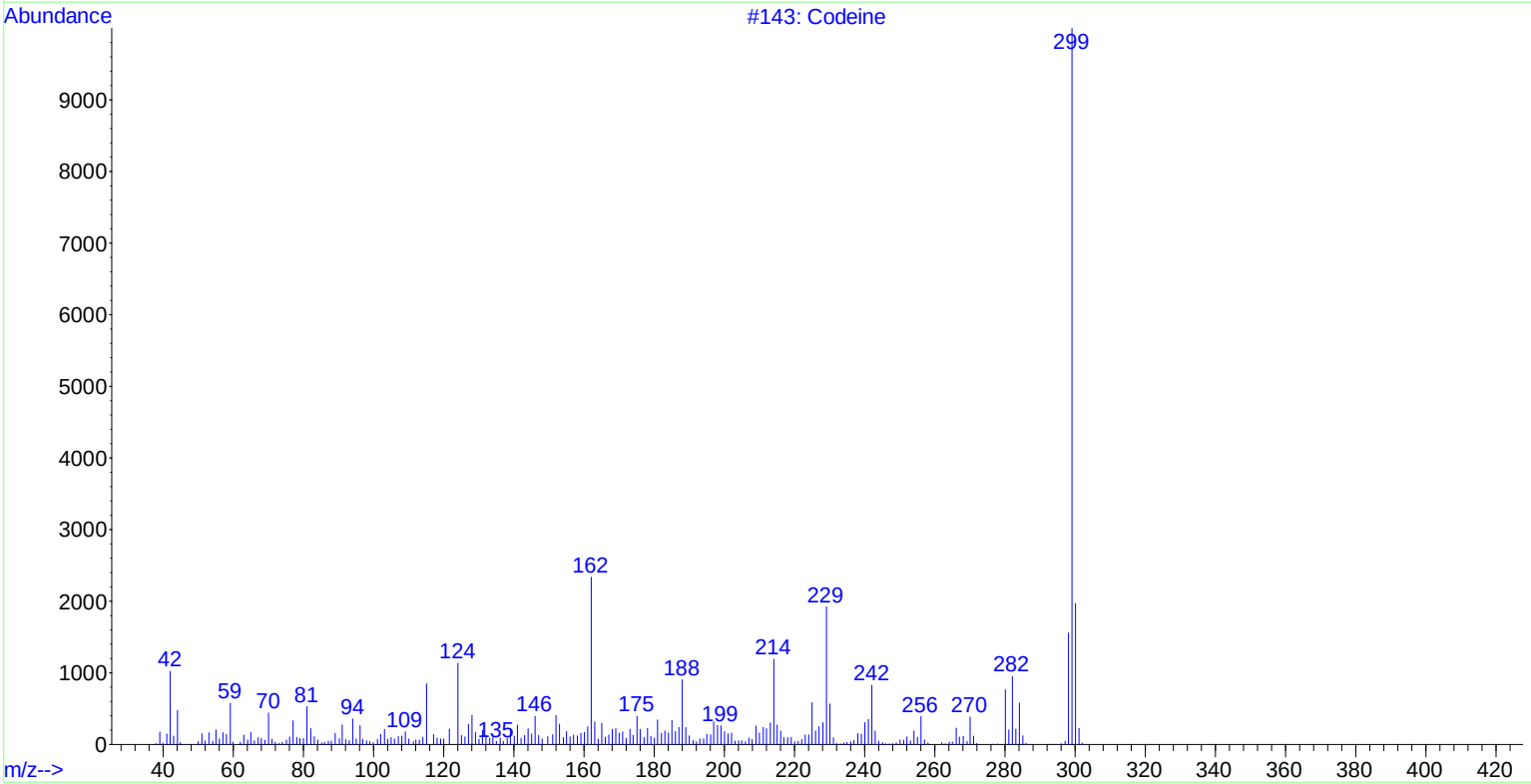


File :D:\GCMS1Data\2025.seq\2nd qtr\051925\Codeine Std.D
Operator : BCCL SD GCMS 1
Acquired : 19 May 2025 14:58 using AcqMethod BCCL GENDRUG METHOD.M
Instrument : SD GCMS 1
Sample Name: Codeine (R-23-022) Std 000005945
Misc Info : Rt determination
Vial Number: 38

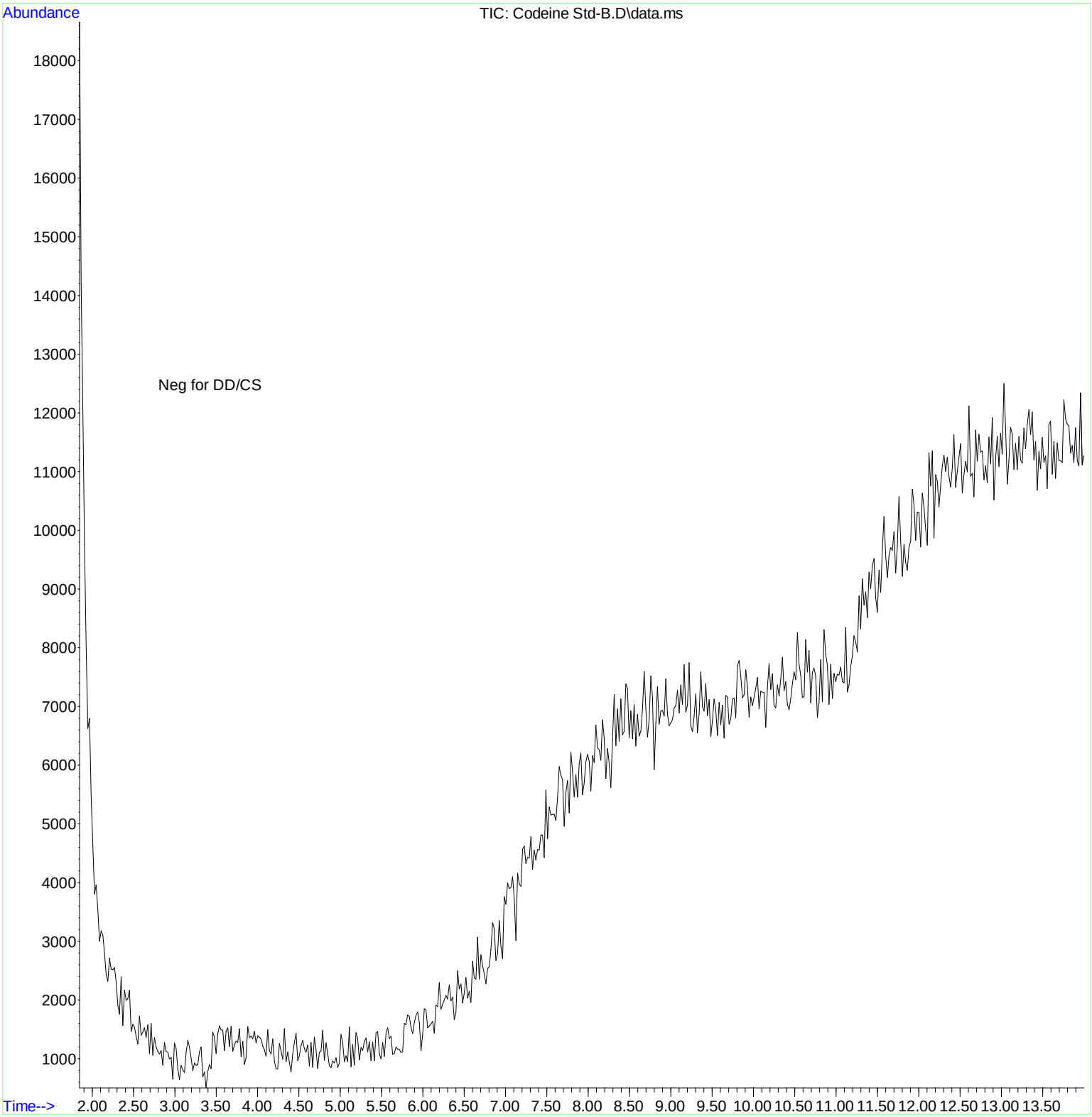


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Operator : BCCL SD GCMS 1
Acquired : 19 May 2025 14:58 using AcqMethod BCCL GENDRUG METHOD.M
Instrument : SD GCMS 1
Sample Name: Codeine (R-23-022) Std 000005945
Misc Info : Rt determination
Vial Number: 38

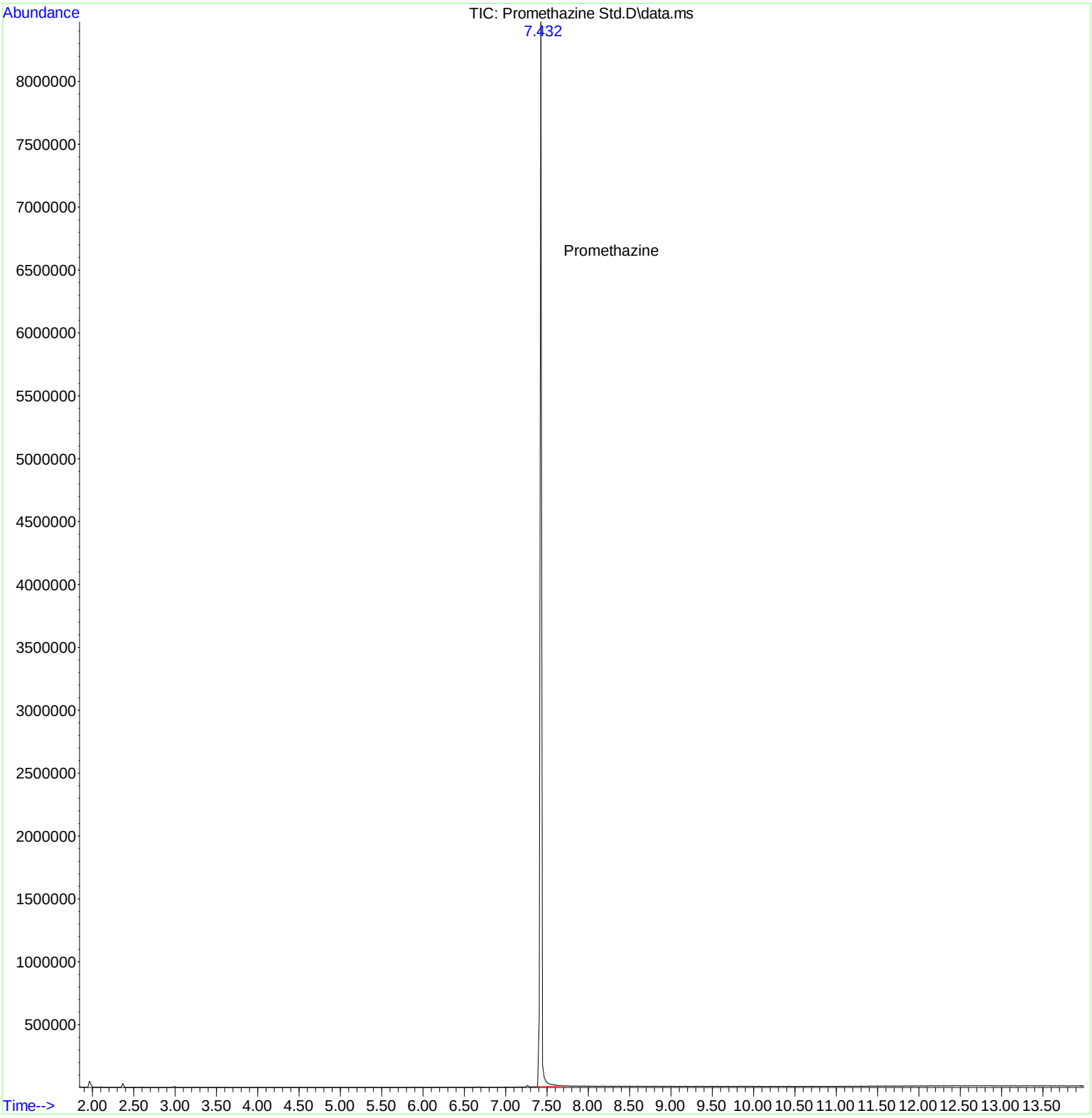




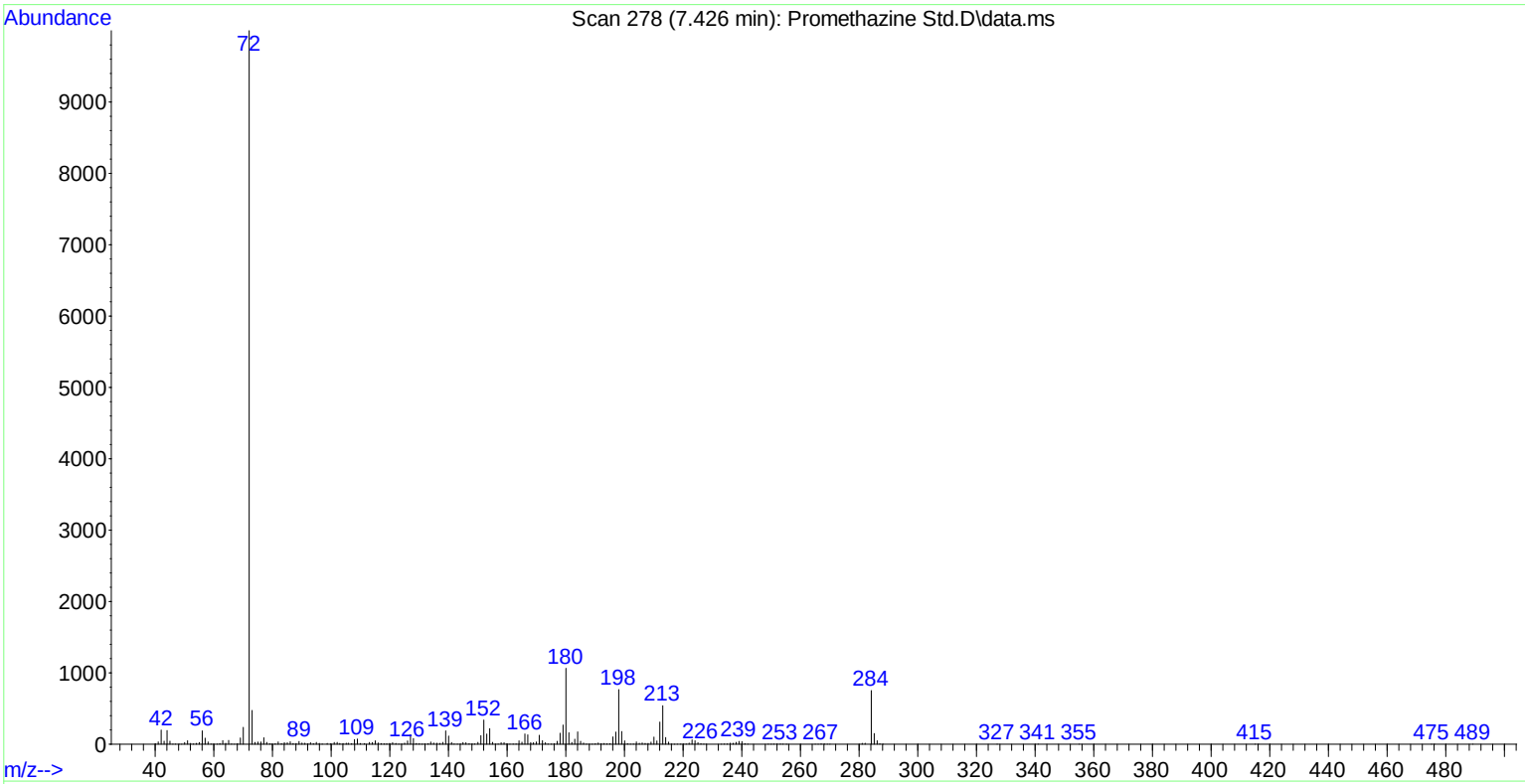
File :D:\GCMS1Data\2025.seq\2nd qtr\051925\Codeine Std-B.D
Operator : BCCL SD GCMS 1
Acquired : 19 May 2025 14:40 using AcqMethod BCCL GENDRUG METHOD.M
Instrument : SD GCMS 1
Sample Name: blank prior to Codeine (R-23-022) Std 000002480
Misc Info : DCM (C-22-0015B):MeOH (C-22-0050B)
Vial Number: 36

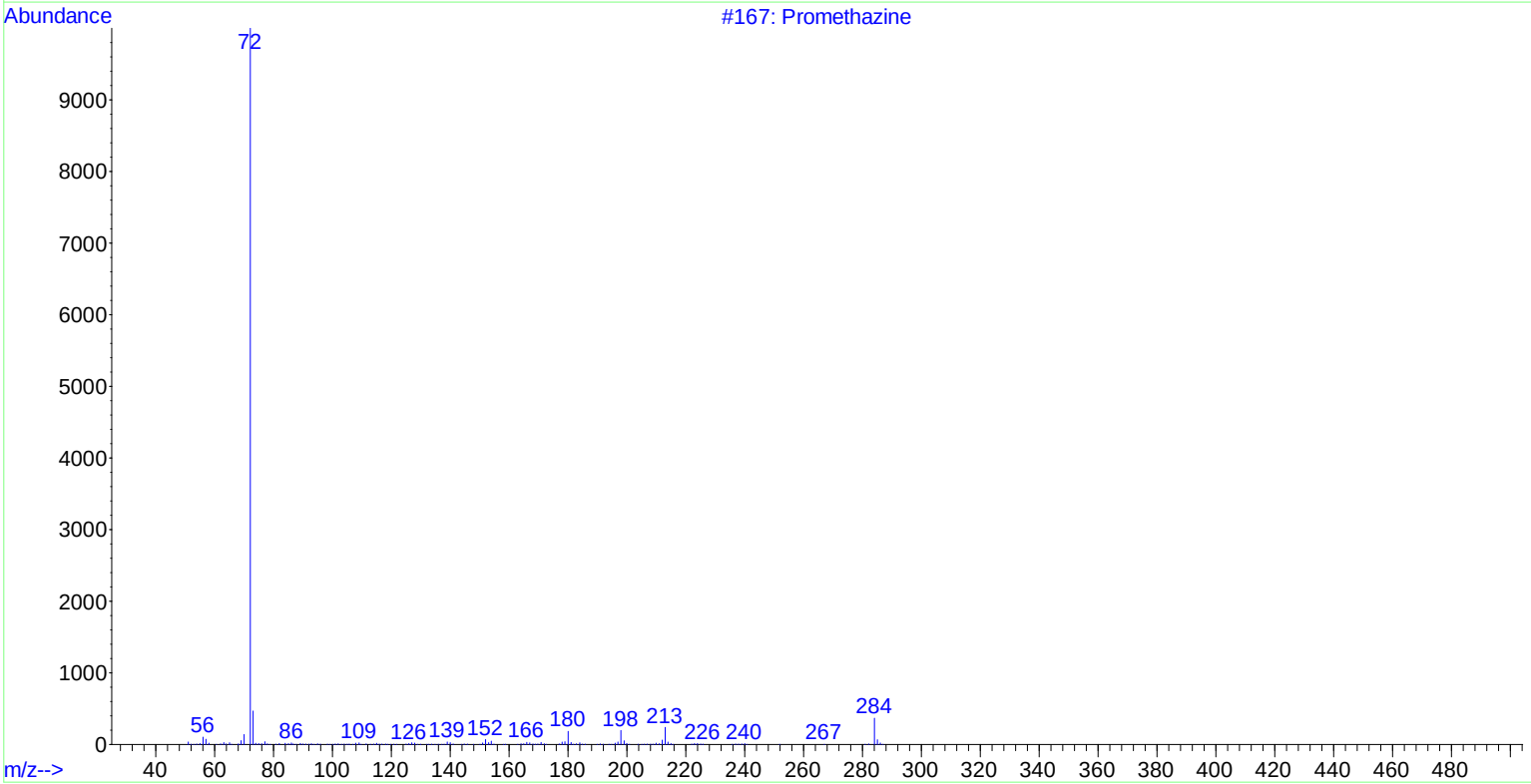


File :D:\GCMS1Data\2025.seq\2nd qtr\051925\Promethazine Std.D
Operator : BCCL SD GCMS 1
Acquired : 19 May 2025 15:33 using AcqMethod BCCL GENDRUG METHOD.M
Instrument : SD GCMS 1
Sample Name: Promethazine (R-24-022) Std 000002997
Misc Info : Rt determination
Vial Number: 39

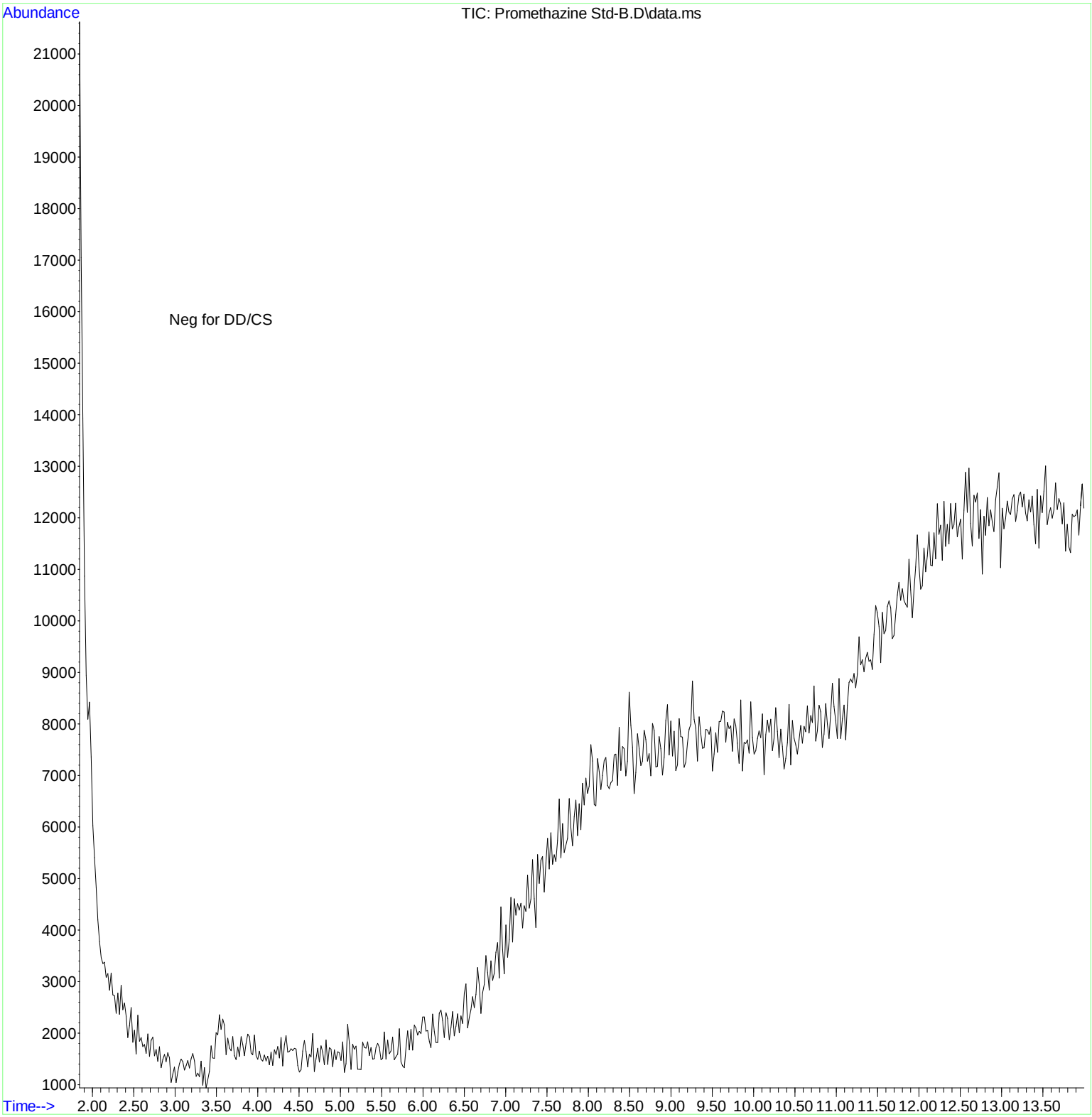


File :D:\GCMS1Data\2025.seq\2nd qtr\051925\Promethazine Std.D
Operator : BCCL SD GCMS 1
Acquired : 19 May 2025 15:33 using AcqMethod BCCL GENDRUG METHOD.M
Instrument : SD GCMS 1
Sample Name: Promethazine (R-24-022) Std 000002997
Misc Info : Rt determination
Vial Number: 39





File :D:\GCMS1Data\2025.seq\2nd qtr\051925\Promethazine Std-B.D
Operator : BCCL SD GCMS 1
Acquired : 19 May 2025 15:15 using AcqMethod BCCL GENDRUG METHOD.M
Instrument : SD GCMS 1
Sample Name: blank prior to Promethazine (R-24-022) Std 000002480
Misc Info : DCM (C-22-0015B):MeOH (C-22-0050B)
Vial Number: 36

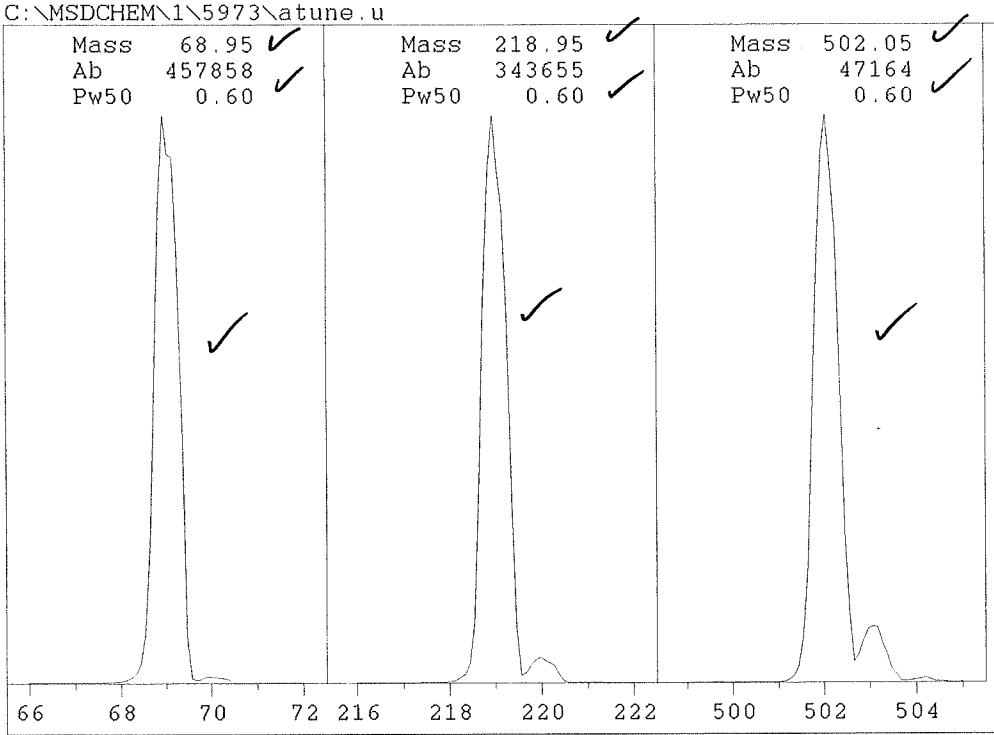


5973 Autotune

Tue May 27 07:56:13 2025 Instrument: SD GCMS 1

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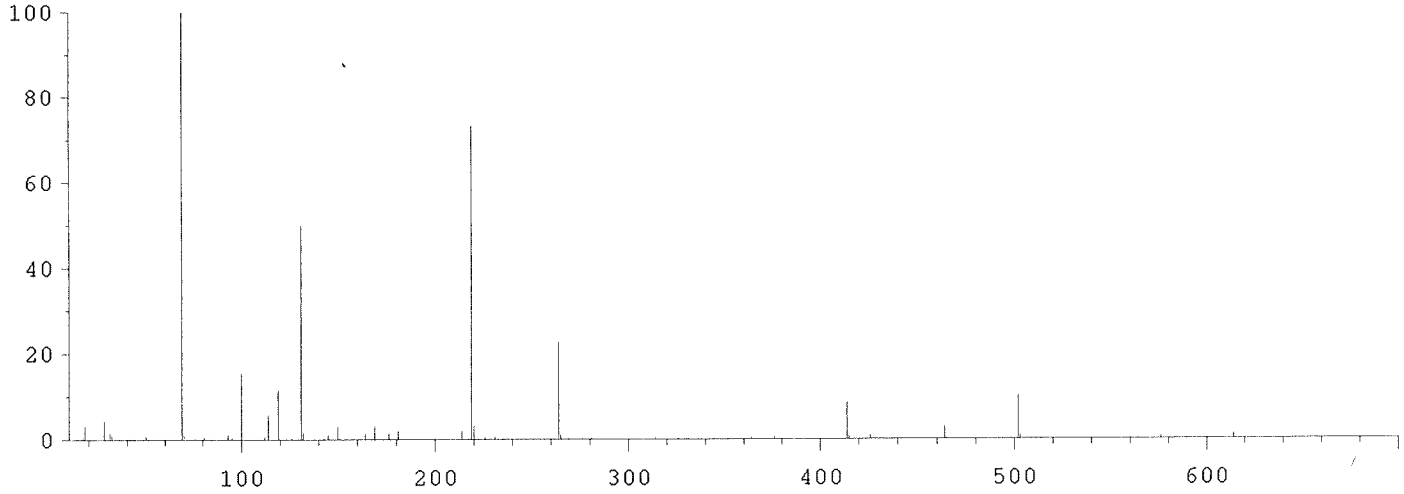
KB OK



Ion Pol	POS	MassGain	367
		MassOffs	-11
Emission	34.6	AmuGain	2443
EIEnrgy	69.9	AmuOffs	124
Filament	1	Wid219	-0.022
		DC Pol	POS
Repeller	30.96		
IonFcus	90.2	HEDEnab	ON
EntLens	14.5	EMVolts	1624
EntOffs	19.07		
		Samples	8
PFTBA	OPEN	Averages	3
		Stepsize	0.10
Zones:			
MS Source	230	TurboSpd	100
MS Quad	150		

Scan: 10.00 - 700.00 Samples: 8 Thresh: 100 Step: 0.10

154 peaks Base: 69.05 Abundance: 411904



Mass	Abund	Rel Abund	Iso Mass	Iso Abund	Iso Ratio
69.05	411904	100.00	70.05	4736	1.15
218.95	302272	73.38	220.05	13811	4.57
502.05	41384	10.05	503.05	4324	10.45

Air/Water Check: H20~3.20% N2~4.26% O2~1.14% CO2~0.21% N2/H2O~133.08%

Column Flow: Front: 0.798 Back: 0 ml/min. Interface Temp: 280

Ramp Criteria:

Ion Focus Maximum 90 volts using ion 502; EM Gain 128199

Repeller Maximum 35 volts using ion 219;

MassGain Values @Samples: 367@3 367@2 367@1 367@0 367@FS

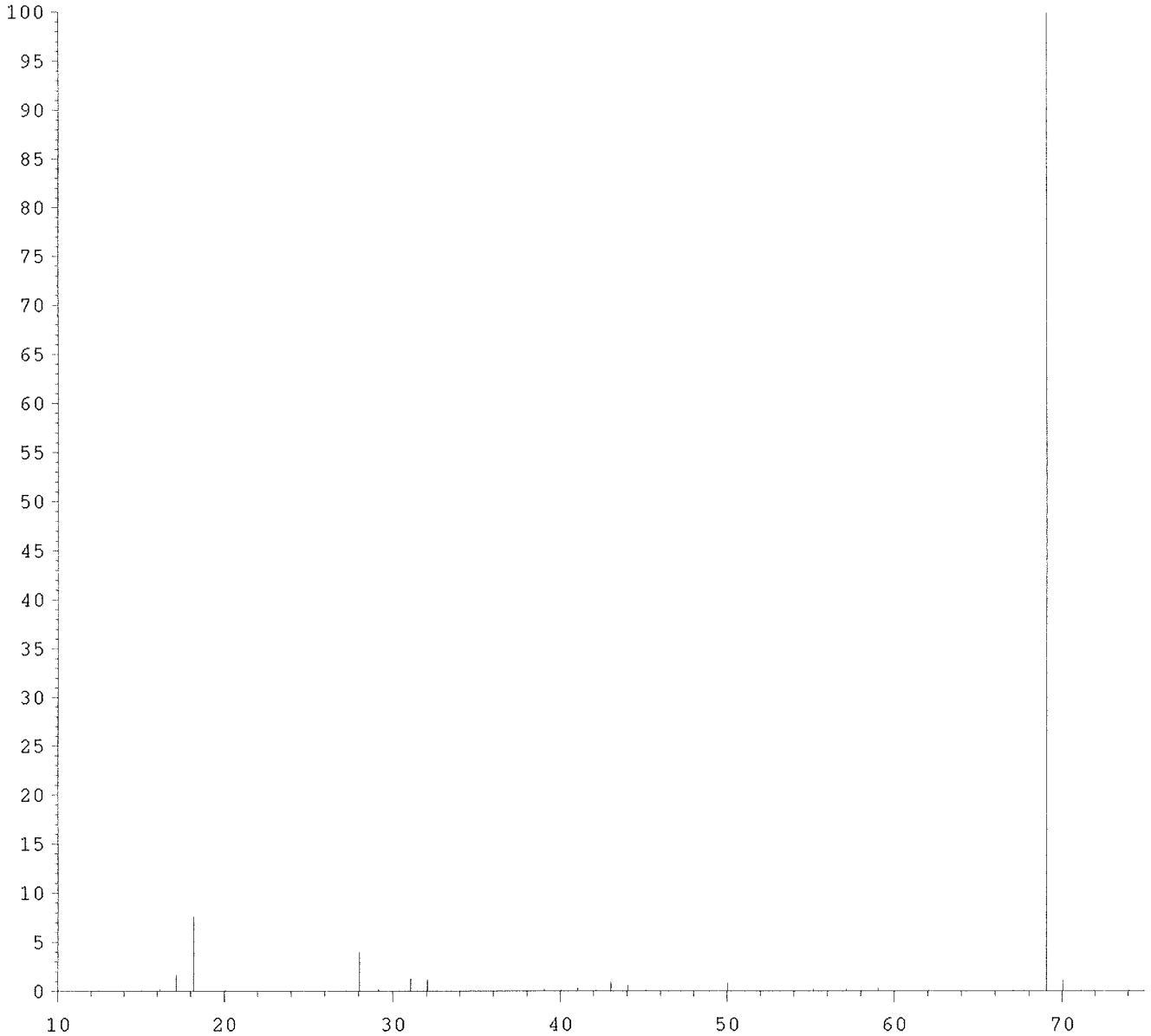
TARGET MASS:	50	69	131	219	414	502	800
Amu Offset:	124.0	124.0	124.0	124.0	124.0	124.0	124.0
Entrance Lens Offset:	19.1	19.1	19.1	19.1	19.1	19.1	19.1

KB
OK

597x Air and Water Check

Instrument: SD GCMS 1
Tue May 27 07:27:30 2025 C:\MSDCHEM\1\5973\

Scan: 10.00 - 75.00 Samples: 8 Thresh: 0 Step: 0.10
67 peaks Base: 69.05 Abundance: 417664



Mass	Abund	Rel Abund	Iso Mass	Iso Abund	Iso Ratio
69.05	417664	100.00	70.05	4861	1.16
18.15	31888	7.63	0.00	0	0.00
28.05	16848	4.03	29.15	856	5.08

Current Params used: atune.u

Relative abundances:

18/69 =	7.63 ✓	Water%
28/69 =	4.03 ✓	Nitrogen%
32/69 =	1.19 ✓	Oxygen%
44/69 =	0.60	Carbon Dioxide%
28/18 =	52.83	Nitrogen/Water%

System Verification - Tune (Detector Optimization) Portion

KB

Instrument Name	: SD GCMS 1	
DC Polarity	: Positive	
Filament	: 1	
BasePeak should be 69 or 219		Ok
Position of mass 69	69.05	Ok
Position of mass 219	218.95	Ok
Position of mass 502	502.05	Ok
Position of isotope mass 70	70.05	Ok
Position of isotope mass 220	219.99	Ok
Position of isotope mass 503	503.06	Ok
Ratio of mass 70 to mass 69(0.5 - 1.6%)	1.12	Ok
Ratio of mass 220 to mass 219(3.2 - 5.4%)	4.34	Ok
Ratio of mass 503 to mass 502(7.9 - 12.3%)	10.18	Ok
Ratio of 219 to 69 should be > 40% and is	73.50	Ok
Ratio of 502 to 69 should be > 2.4% and is	10.40	Ok
Mass 69 Precursor (<= 3%)	0.25	Ok
Mass 219 Precursor (<= 6%)	0.47	Ok
Mass 502 Precursor (<= 12%)	0.63	Ok
Testing for a leak in the system		
Ratio of 18 to 69 (<20%)	2.73	Ok
Ratio of 28 to 69 (<10%)	4.01	Ok
Electron Multiplier Voltage	1624	Ok

Tune portion of System Verification passed.

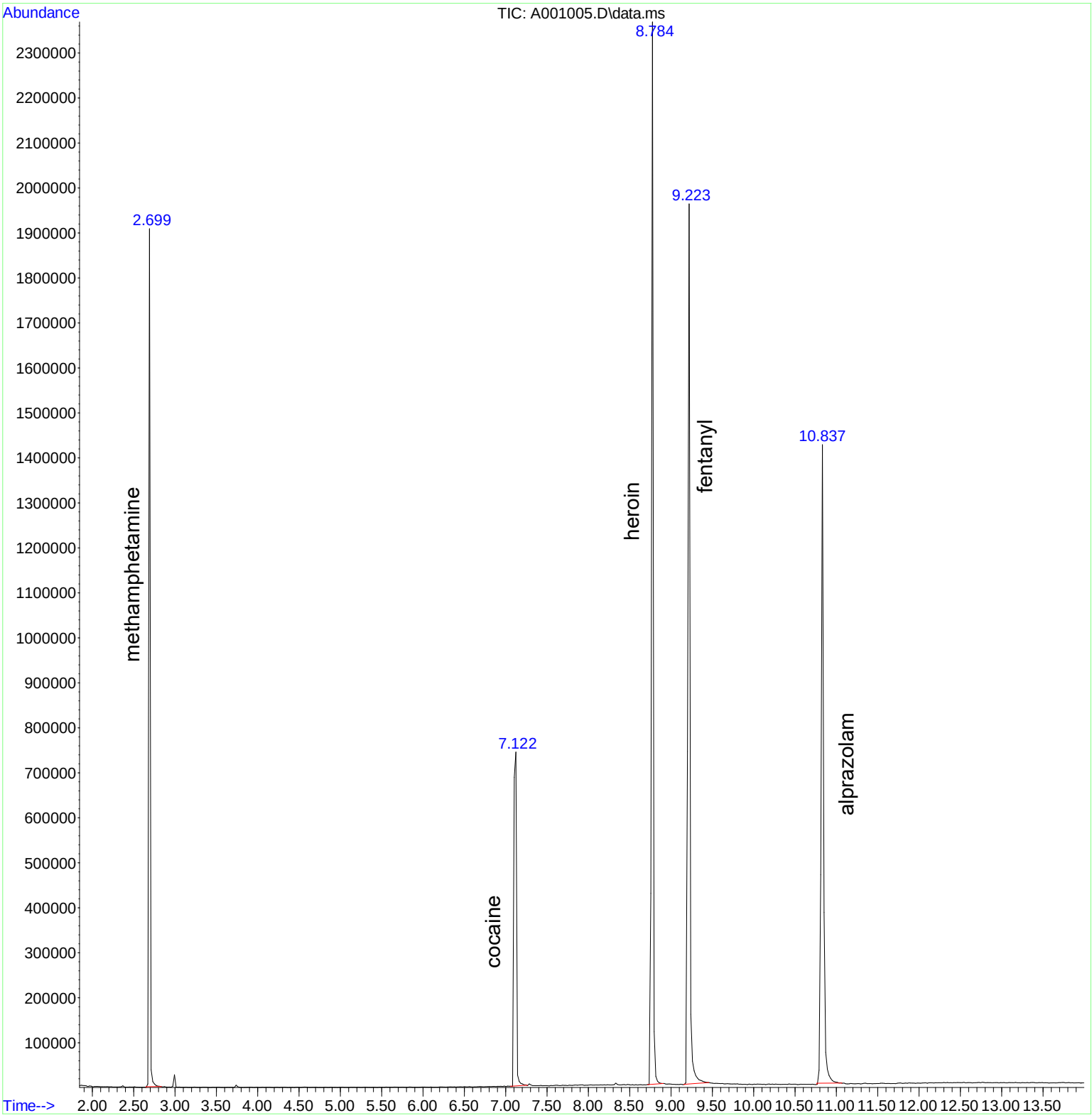
BCCL GC/MS #1
Retention Times for the Week of:

05/26/2025 - 06/01/2025

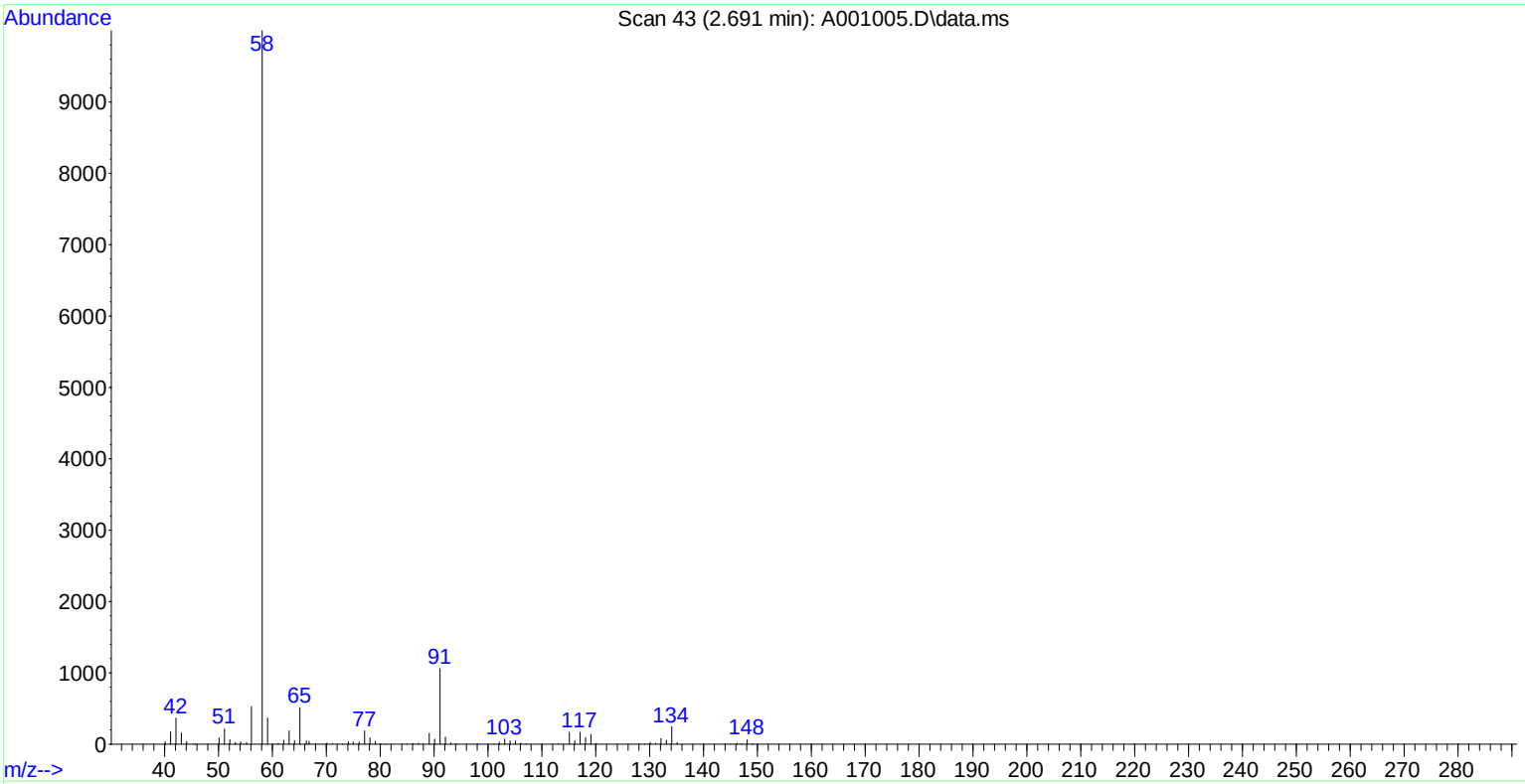
[x] **Tune: 05/27/2025 - Autotune KB**

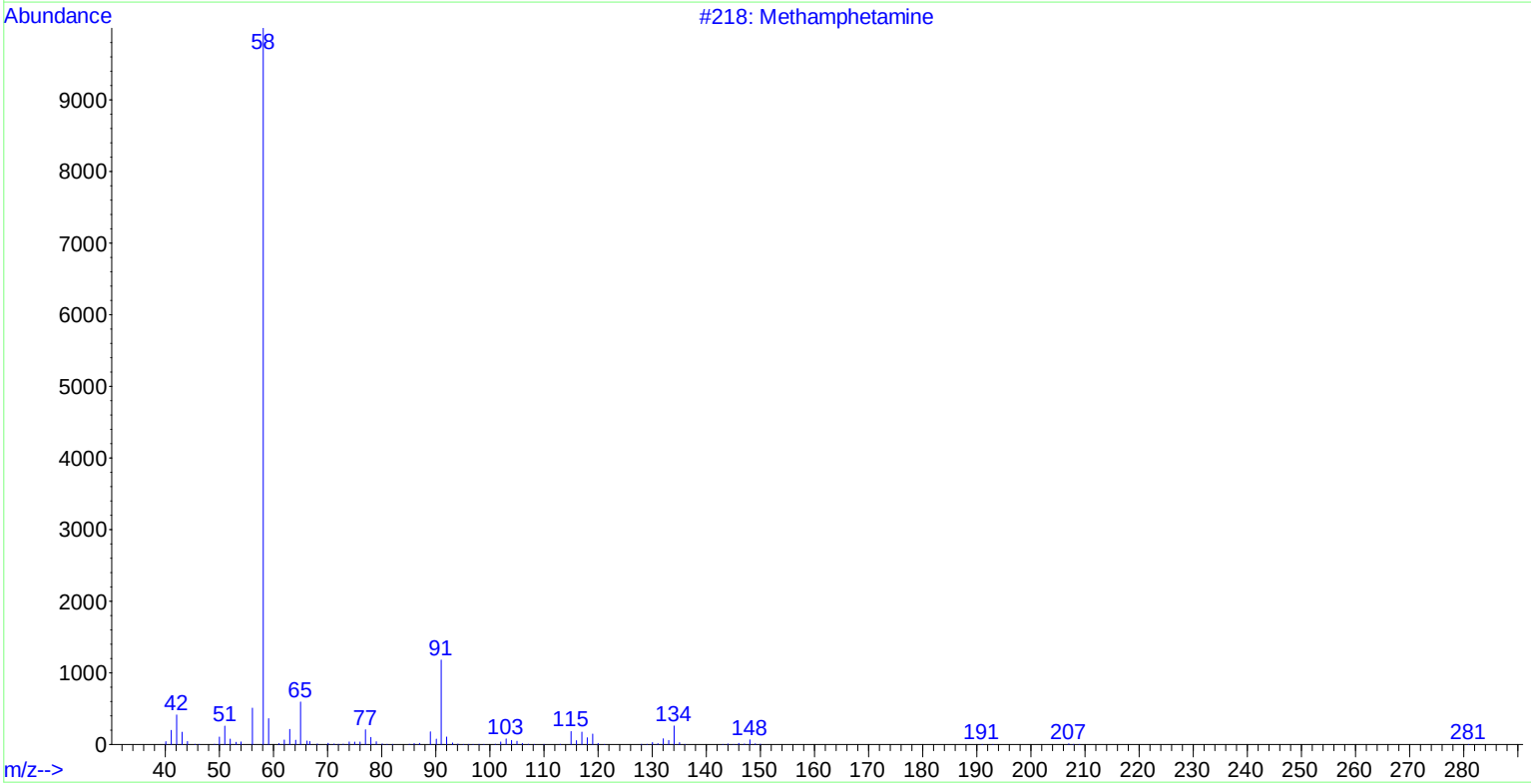
Standard	Standard #	Method	Retention Time	1% Window	
Methamphetamine	R-24-060	BCCL GenDrug	2.699	2.672	2.725
Cocaine	R-24-060	BCCL GenDrug	7.122	7.050	7.193
Heroin	R-24-060	BCCL GenDrug	8.784	8.696	8.871
Fentanyl	R-24-060	BCCL GenDrug	9.223	9.130	9.315
Alprazolam	R-24-060	BCCL GenDrug	10.837	10.728	10.945

File :D:\GCMS1Data\Stds and Chemical Verification\Weekly Check Mix
... 2025\052725\A001005.D
Operator : AGILENT SD GCMS #1
Instrument : SD GCMS 1
Acquired : 27 May 2025 9:55 using AcqMethod BCCL GENDRUG METHOD.M
Sample Name: CAYMAN GC/MS MIX 3 (R-24-060) 000002665 -KB 5/28/2025
Misc Info : In ACN

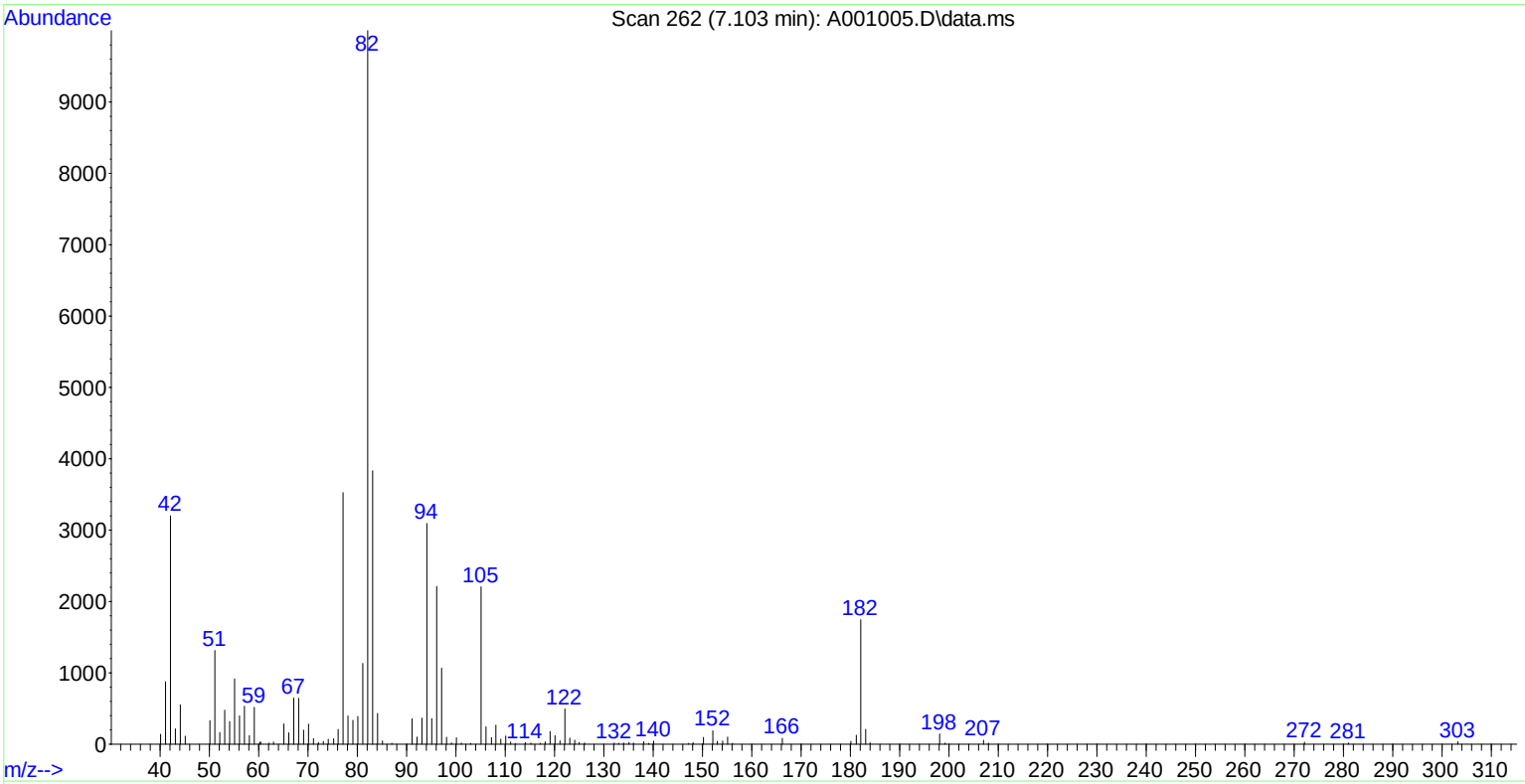


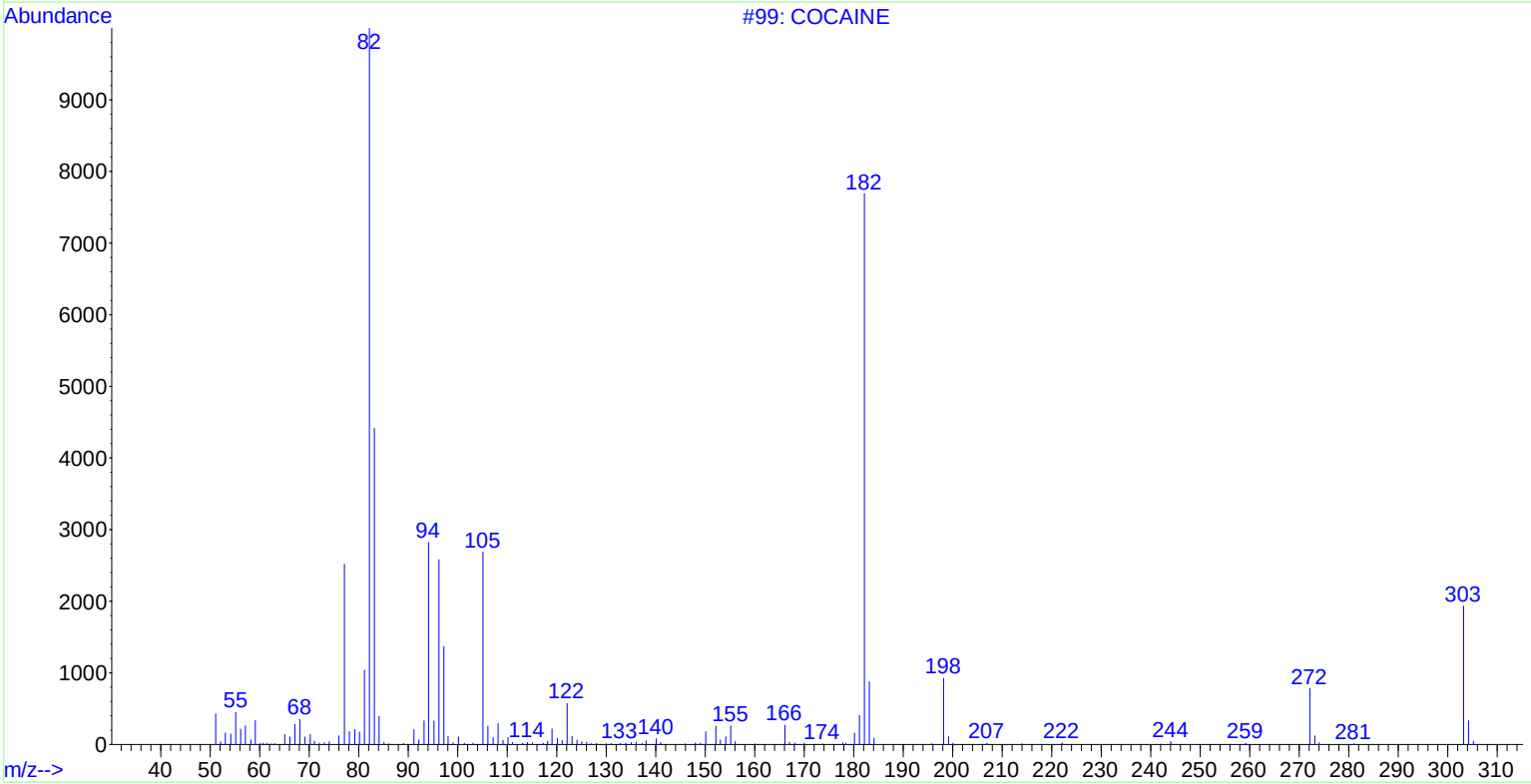
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Operator : AGILENT SD GCMS #1
Instrument : SD GCMS 1
Acquired : 27 May 2025 9:55 using AcqMethod BCCL GENDRUG METHOD.M
Sample Name: CAYMAN GC/MS MIX 3 (R-24-060) 000002665 ✓ -KB 5/28/2025
Misc Info : In ACN



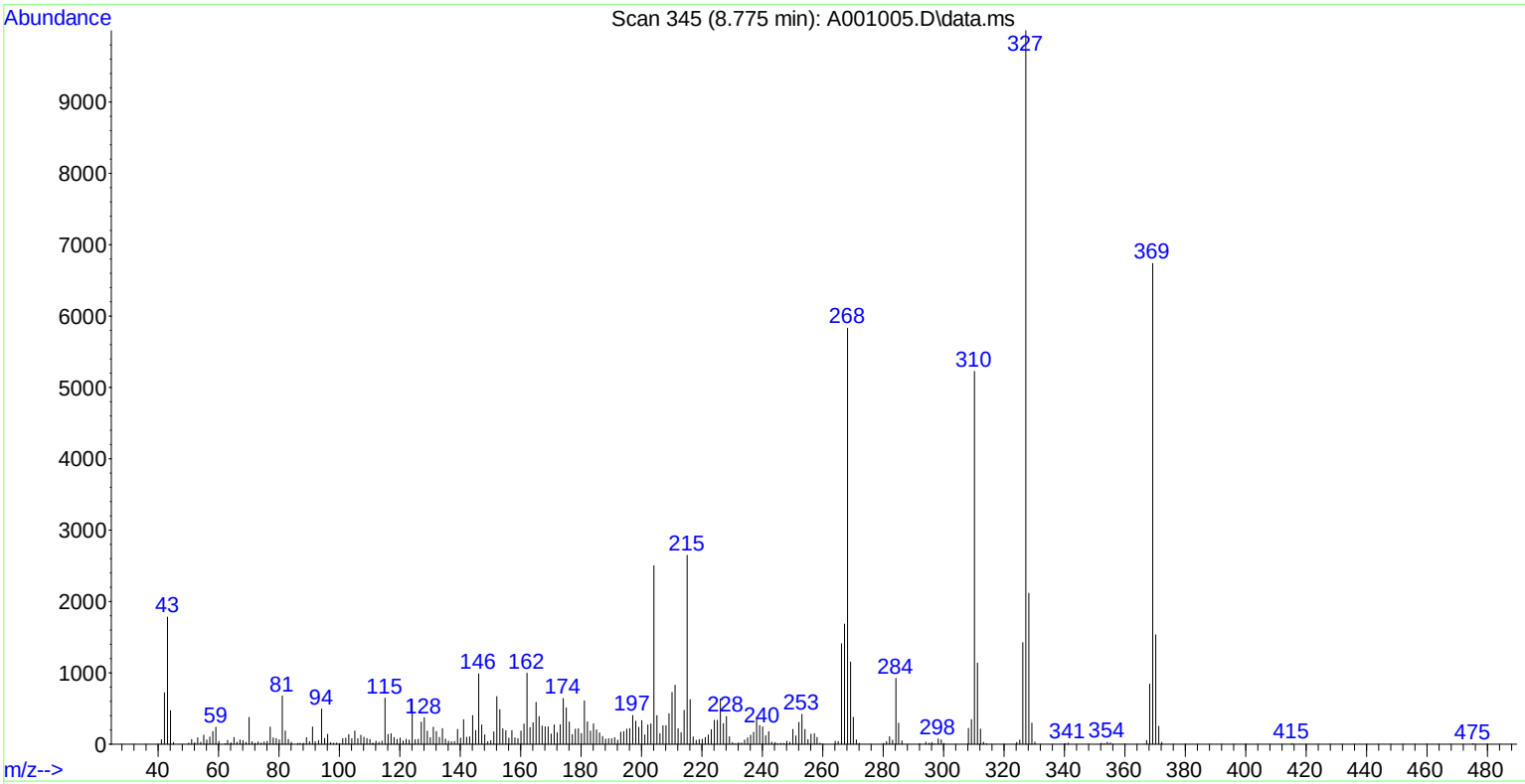


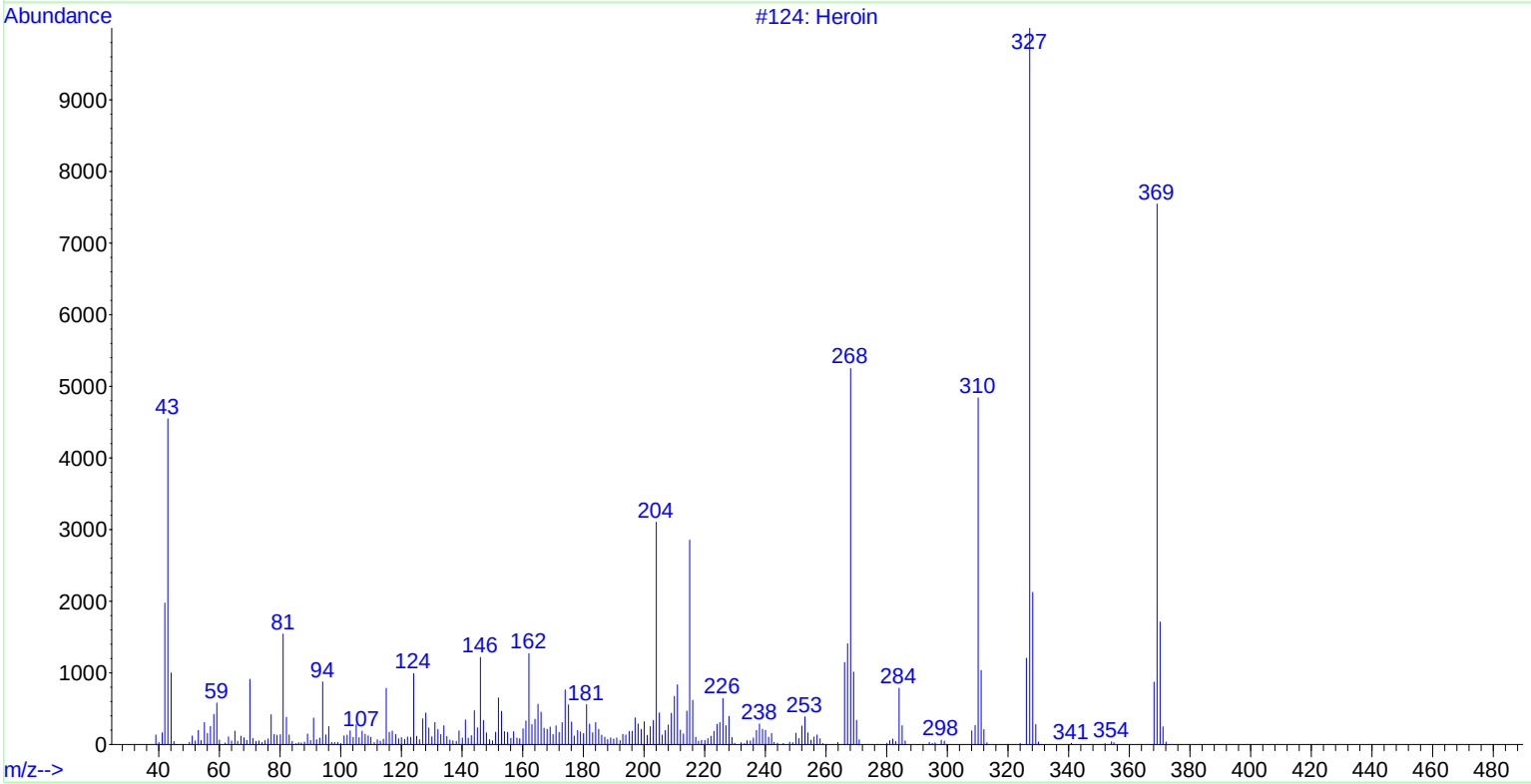
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Instrument : SD GCMS 1
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Misc Info : In ACN



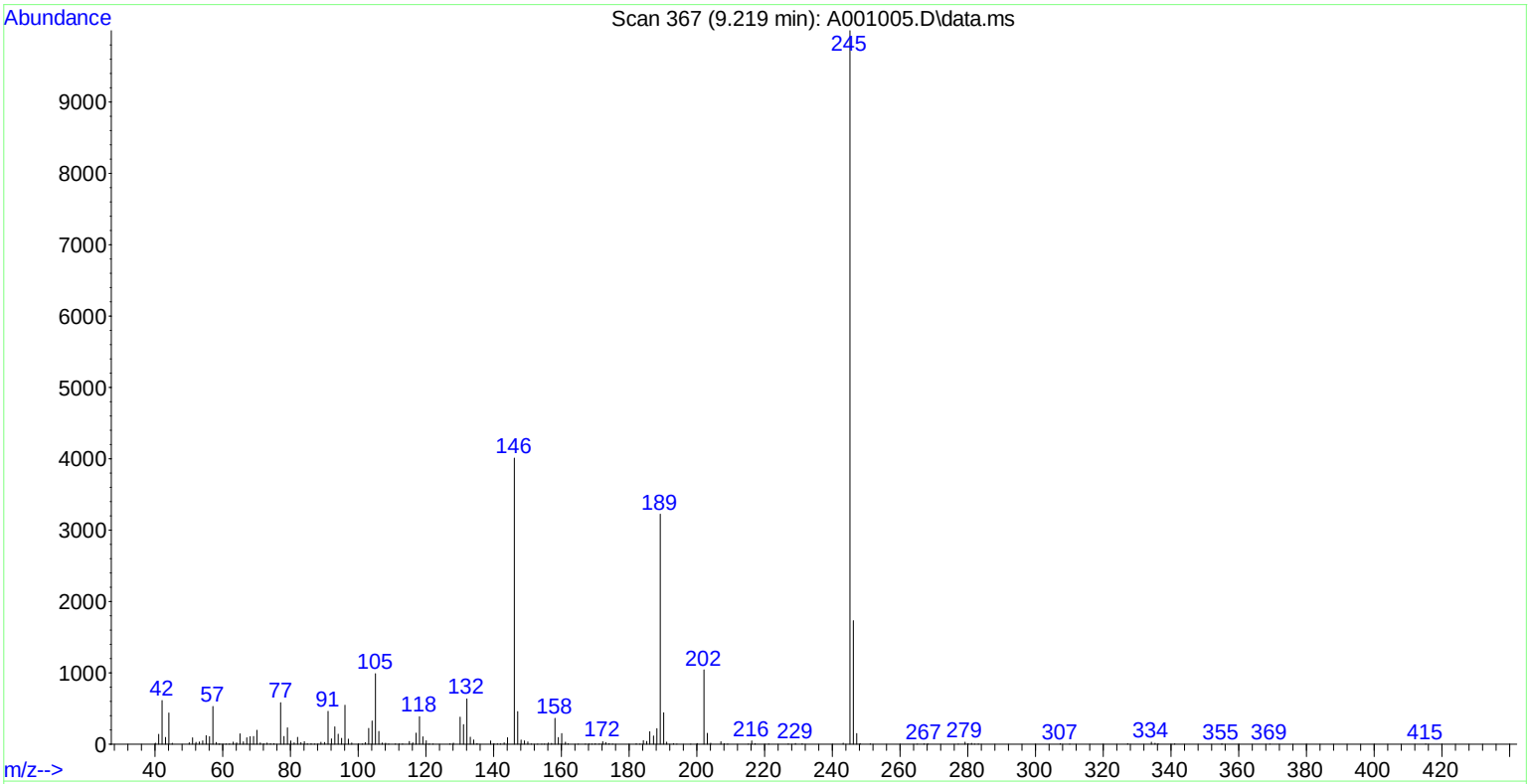


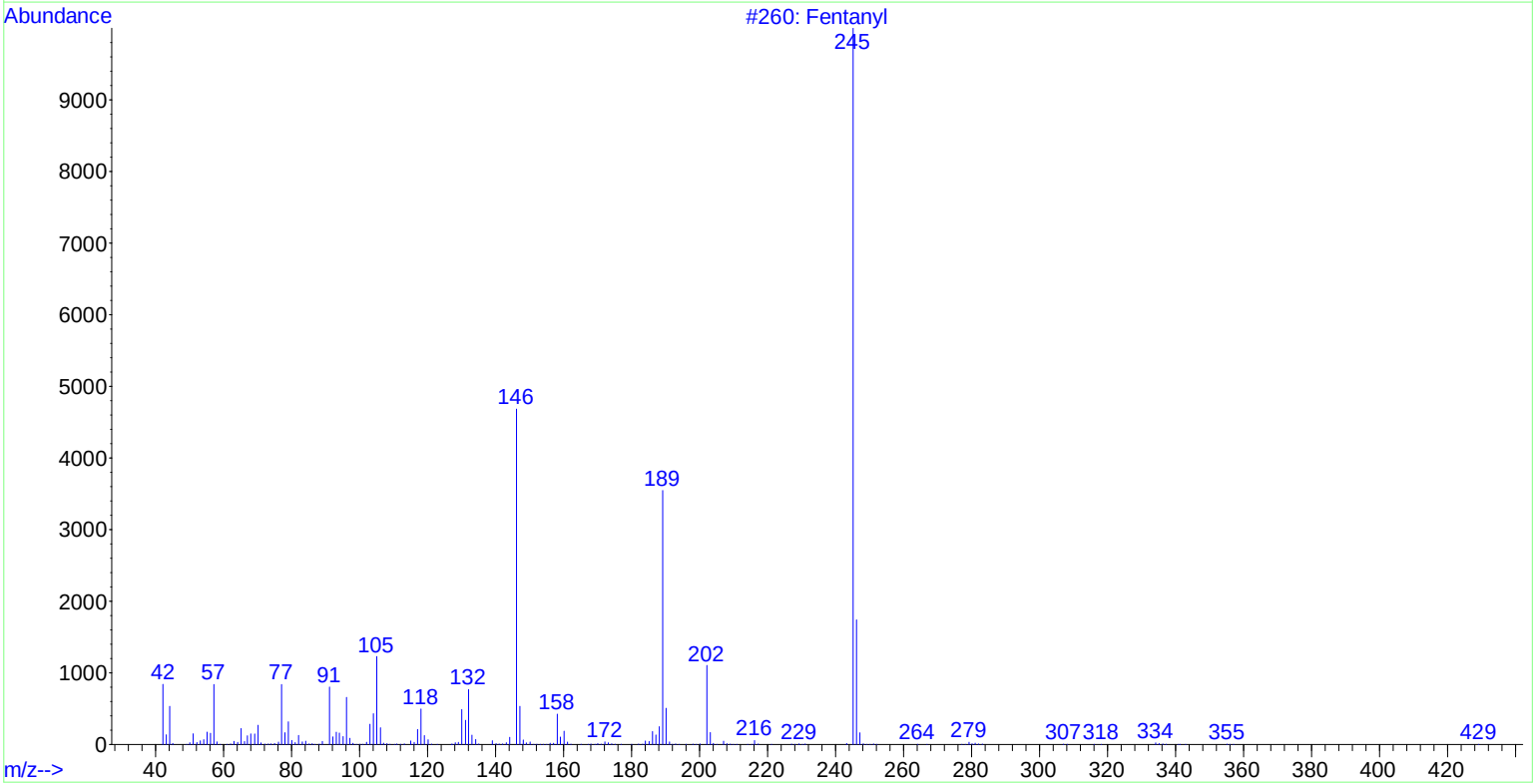
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Operator : AGILENT SD GCMS #1
Instrument : SD GCMS 1
Acquired : 27 May 2025 9:55 using AcqMethod BCCL GENDRUG METHOD.M
Sample Name: CAYMAN GC/MS MIX 3 (R-24-060) 000002665 ✓ -KB 5/28/2025
Misc Info : In ACN



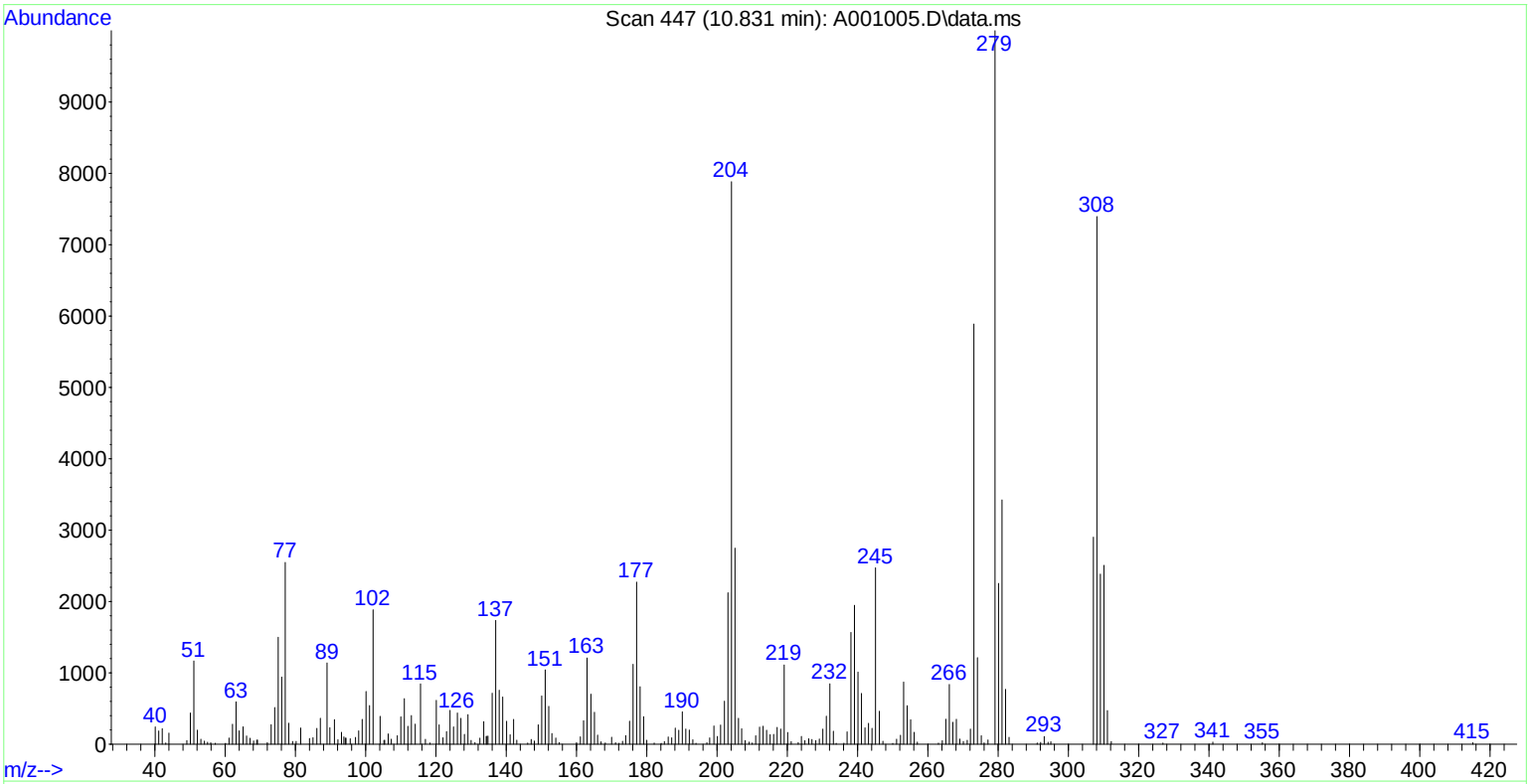


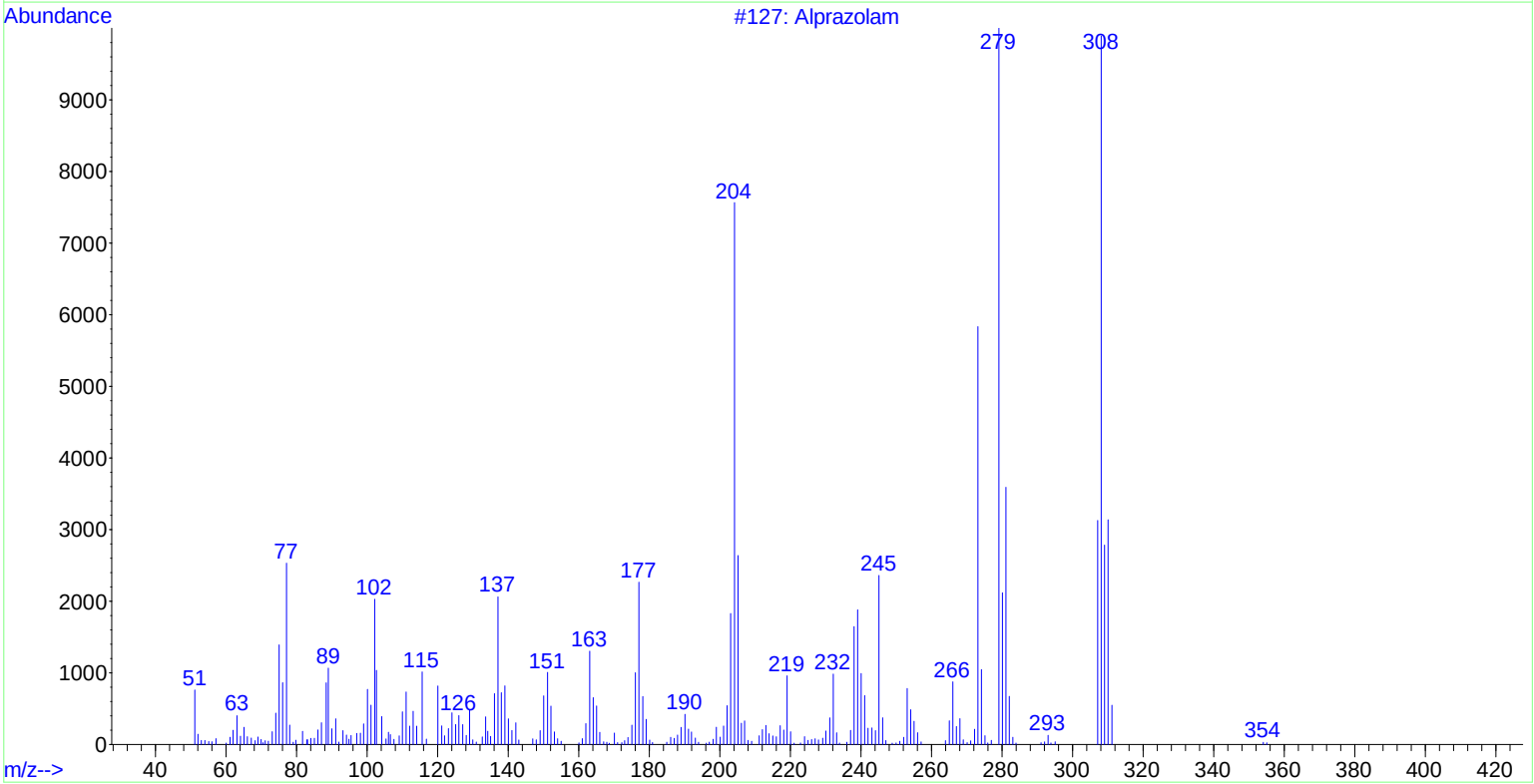
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Operator : AGILENT SD GCMS #1
Instrument : SD GCMS 1
Acquired : 27 May 2025 9:55 using AcqMethod BCCL GENDRUG METHOD.M
Sample Name: CAYMAN GC/MS MIX 3 (R-24-060) 000002665 ✓ -KB 5/28/2025
Misc Info : In ACN



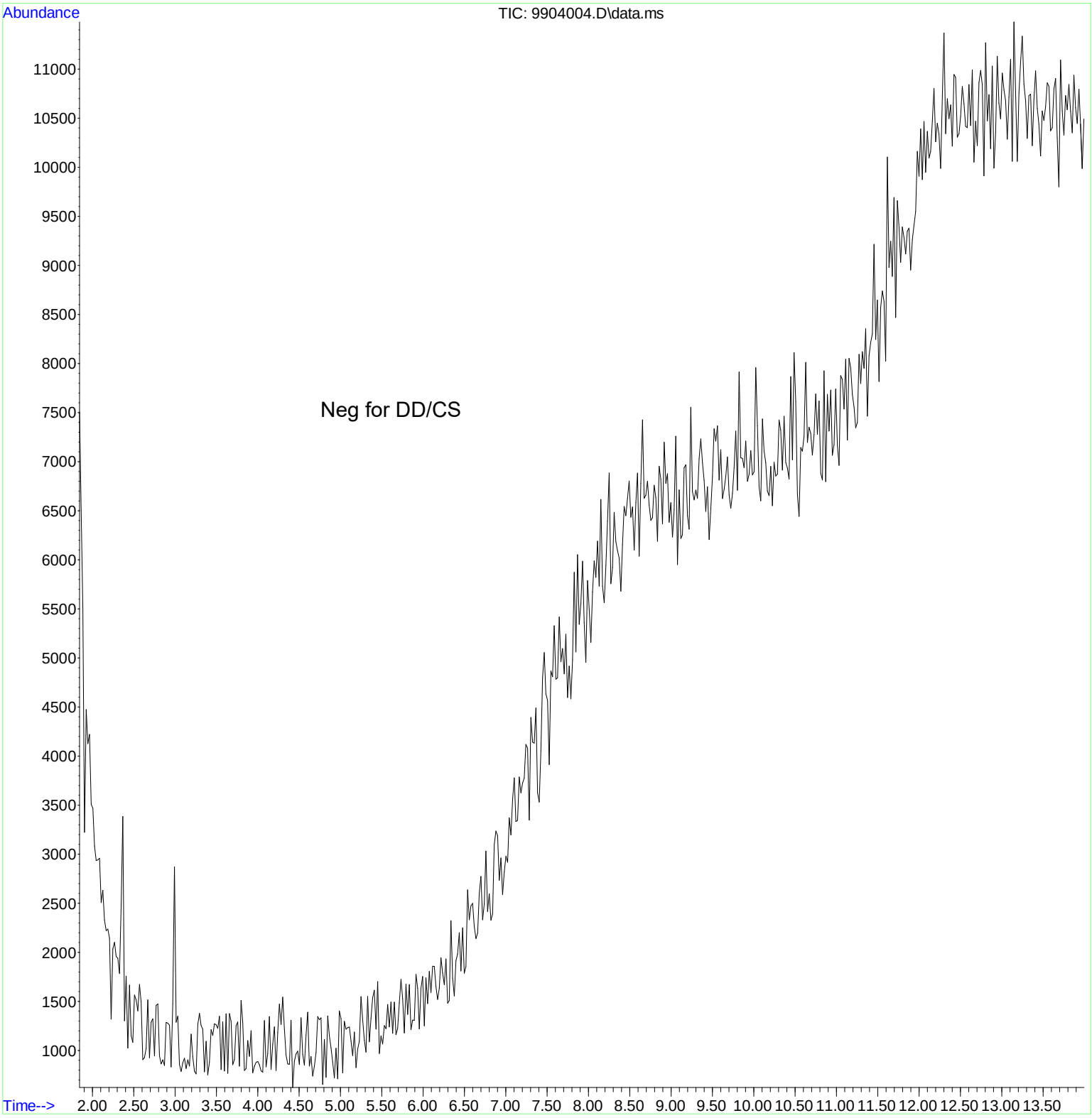


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Operator : AGILENT SD GCMS #1
Instrument : SD GCMS 1
Acquired : 27 May 2025 9:55 using AcqMethod BCCL GENDRUG METHOD.M
Sample Name: CAYMAN GC/MS MIX 3 (R-24-060) 000002665 -KB 5/28/2025 ✓
Misc Info : In ACN





File :D:\GCMS1Data\Stds and Chemical Verification\Weekly Check Mix
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Operator : AGILENT SD GCMS #1
Instrument : SD GCMS 1
Acquired : 27 May 2025 9:38 using AcqMethod BCCL GENDRUG METHOD.M
Sample Name: BLANK PRIOR TO CAYMAN GC/MS 000002664 ✓ -KB 5/28/2025
Misc Info : ACN (C-19-0068)



File :D:\GCMS1Data\Stds and Chemical Verification\Weekly Check Mix
... 2025\052725\9901006.D
Operator : AGILENT SD GCMS #1
Instrument : SD GCMS 1
Acquired : 27 May 2025 10:12 using AcqMethod BCCL GENDRUG METHOD.M
Sample Name: BLANK - INSTRUMENT READY 000002664 ✓ -KB 5/28/2025
Misc Info : ACN (C-19-0068)

