Brazoria County Crime Lab

Seized Drugs Section

GC-MS Maintenance Log

Instrument: SD GCMS1 **Month/Year:** June 2025

Entry Number	Date	He Tank Pressure	Autotune	Septum Change	Wash Vials Filled	Liner Change	Gold Seal Replaced	Column Cut	Computer Restarted	Maintenance/ PM	Analyst/ Technician	Comments	Initials
1	6/2/2025	2350	Pass	N/A	√	N/A	N/A	N/A	N/A	Maintenance	Analyst	new HE tank on 5/30/2025	KB
2	6/9/2025	1300	Pass	N/A	√	N/A	N/A	N/A	√	Maintenance	Analyst		DS
3	6/16/2025	2700	Pass	N/A	√	N/A	N/A	N/A	N/A	Maintenance	Analyst	new HE tank on 6/11/2025	DS/DN
4	6/18/2025	2400	N/A	N/A	N/A	N/A	N/A	N/A	√	Maintenance	Analyst	Restart after planned building power shutdown	DS
5	6/23/2025	1400	Pass	N/A	√	N/A	N/A	N/A	N/A	Maintenance	Analyst		KB
6	6/26/2025	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	PM	Technician	Annual PM visit - Instrument not in service	DS
7	6/29/2025	N/A	Pass	N/A	√		√	√	N/A	Maintenance	Analyst	Performance check - Instrument not in service	DS
8	6/30/2025	2700	N/A	√	N/A	√	N/A	N/A	N/A	Maintenance	Analyst	Helium tank change - Instrument not in service	KB

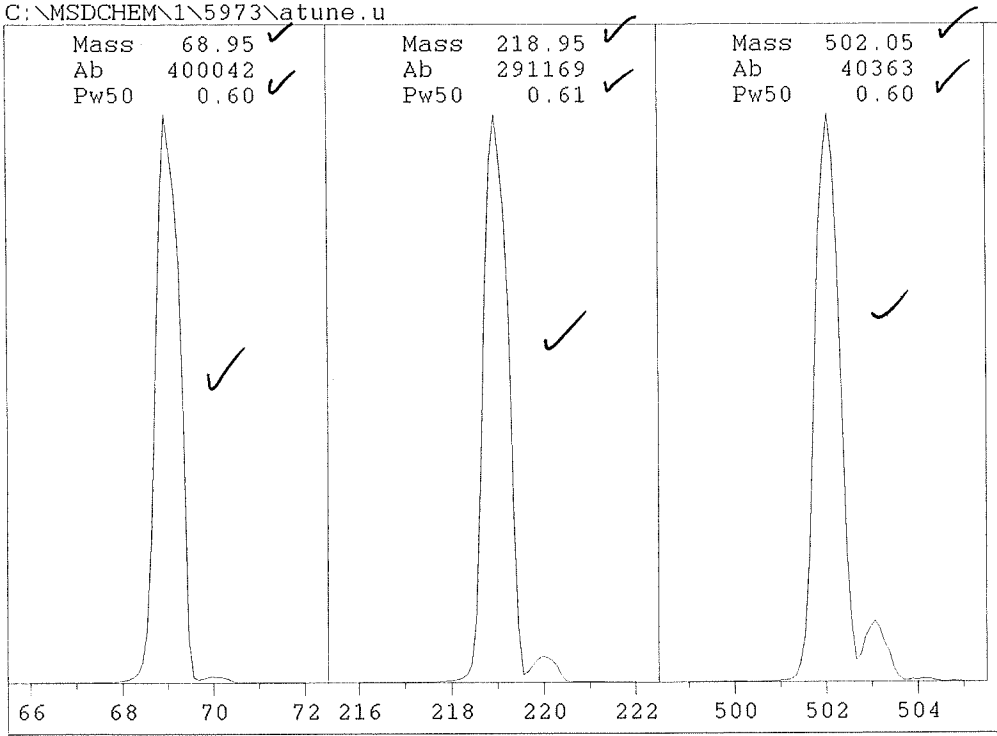
Signature: Derek Sanders **Date:** 07/01/2025

5973 Autotune

Mon Jun 02 06:46:02 2025
C:\MSDCHEM\1\5973\atune.u

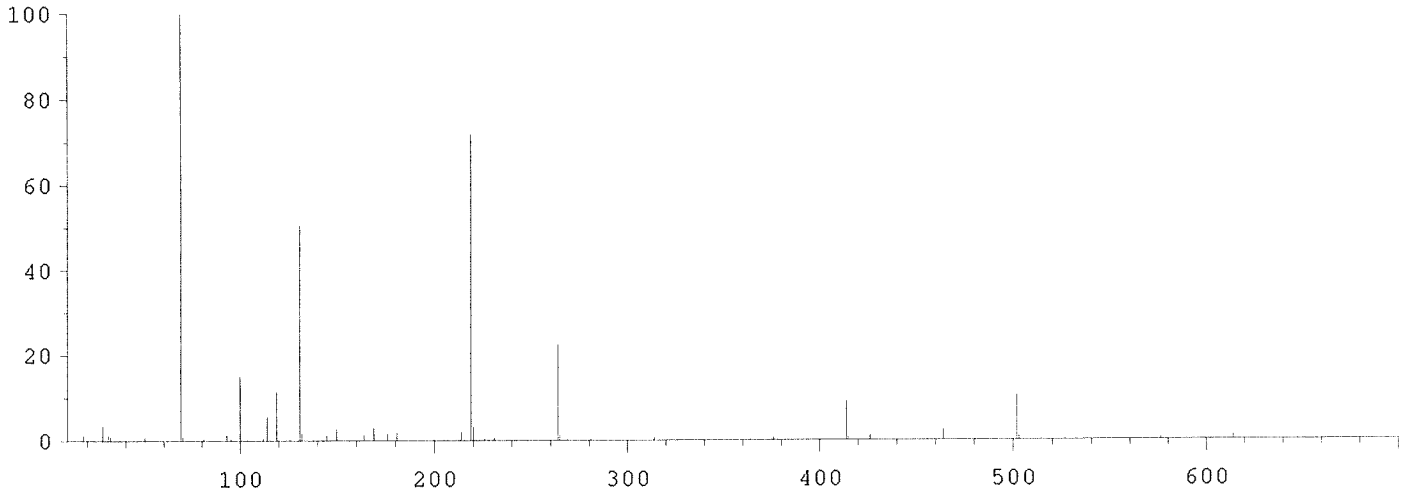
Instrument: SD GCMS 1

KB OK



Ion Pol	POS	MassGain	367
		MassOffs	-11
Emission	34.6	AmuGain	2443
EIEnrgy	69.9	AmuOffs	123
Filament	1	Wid219	-0.025
		DC Pol	POS
Repeller	29.79		
IonFcus	90.2	HEDEnab	ON
EntLens	14.5	EMVolts	1576
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
121 peaks Base: 69.05 Abundance: 356672



Mass	Abund	Rel Abund	Iso Mass	Iso Abund	Iso Ratio
69.05	356672	100.00	69.95	3706	1.04
218.95	256832	72.01	219.95	11253	4.38
502.05	36912	10.35	503.05	3244	8.79

Air/Water Check: H2O~1.17% N2~3.47% O2~1.07% CO2~0.08% N2/H2O~297.67%

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

Ramp Criteria:
Ion Focus Maximum 90 volts using ion 502; EM Gain 95743
Repeller Maximum 35 volts using ion 219;

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

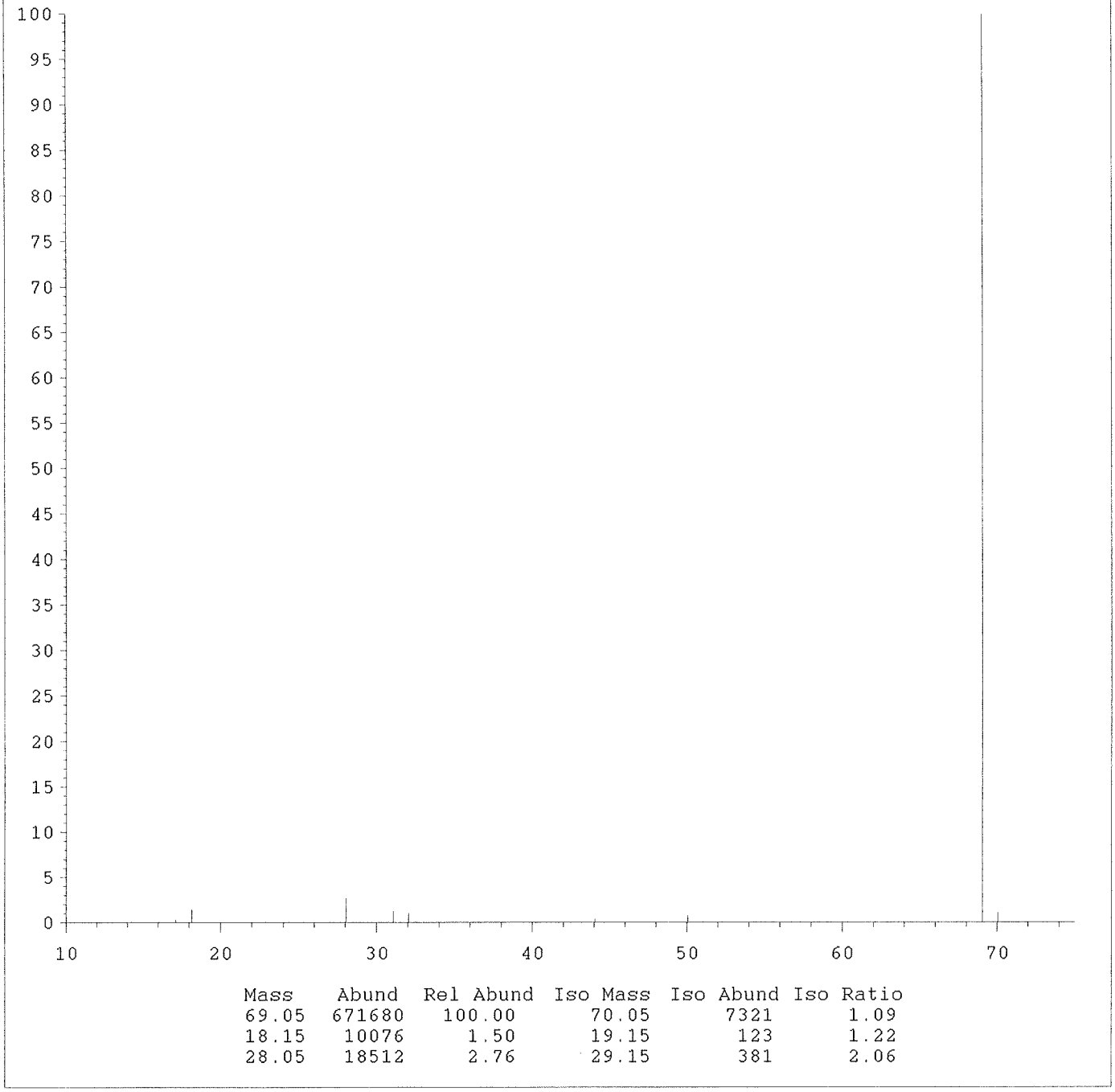
TARGET MASS:	50	69	131	219	414	502	800
Amu Offset:	123.0	123.0	123.0	123.0	123.0	123.0	123.0
Entrance Lens Offset:	19.1	19.1	19.1	19.1	19.1	19.1	19.1

597x Air and Water Check

KB OK

Instrument: SD GCMS 1
Mon Jun 02 06:38:51 2025 C:\MSDCHEM\1\5973\

Scan: 10.00 - 75.00 Samples: 8 Thresh: 0 Step: 0.10
68 peaks Base: 69.05 Abundance: 671680



Mass	Abund	Rel Abund	Iso Mass	Iso Abund	Iso Ratio
69.05	671680	100.00	70.05	7321	1.09
18.15	10076	1.50	19.15	123	1.22
28.05	18512	2.76	29.15	381	2.06

Current Params used: atune.u

Relative abundances:

18/69 =	1.50 ✓	Water%
28/69 =	2.76 ✓	Nitrogen%
32/69 =	1.03 ✓	Oxygen%
44/69 =	0.35	Carbon Dioxide%
28/18 =	183.72	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	69.05	Ok
Position of mass 219	218.95	Ok
Position of mass 502	502.05	Ok
Position of isotope mass 70	70.03	Ok
Position of isotope mass 220	219.97	Ok
Position of isotope mass 503	503.05	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%)	10.15	Ok
Ratio of 219 to 69 should be > 40% and is	73.27	Ok
Ratio of 502 to 69 should be > 2.4% and is	10.60	Ok
Mass 69 Precursor (<= 3%)	0.22	Ok
Mass 219 Precursor (<= 6%)	0.43	Ok
Mass 502 Precursor (<= 12%)	0.56	Ok
Testing for a leak in the system		
Ratio of 18 to 69 (<20%)	1.20	Ok
Ratio of 28 to 69 (<10%)	3.71	Ok
Electron Multiplier Voltage	1576	Ok

Tune portion of System Verification passed.

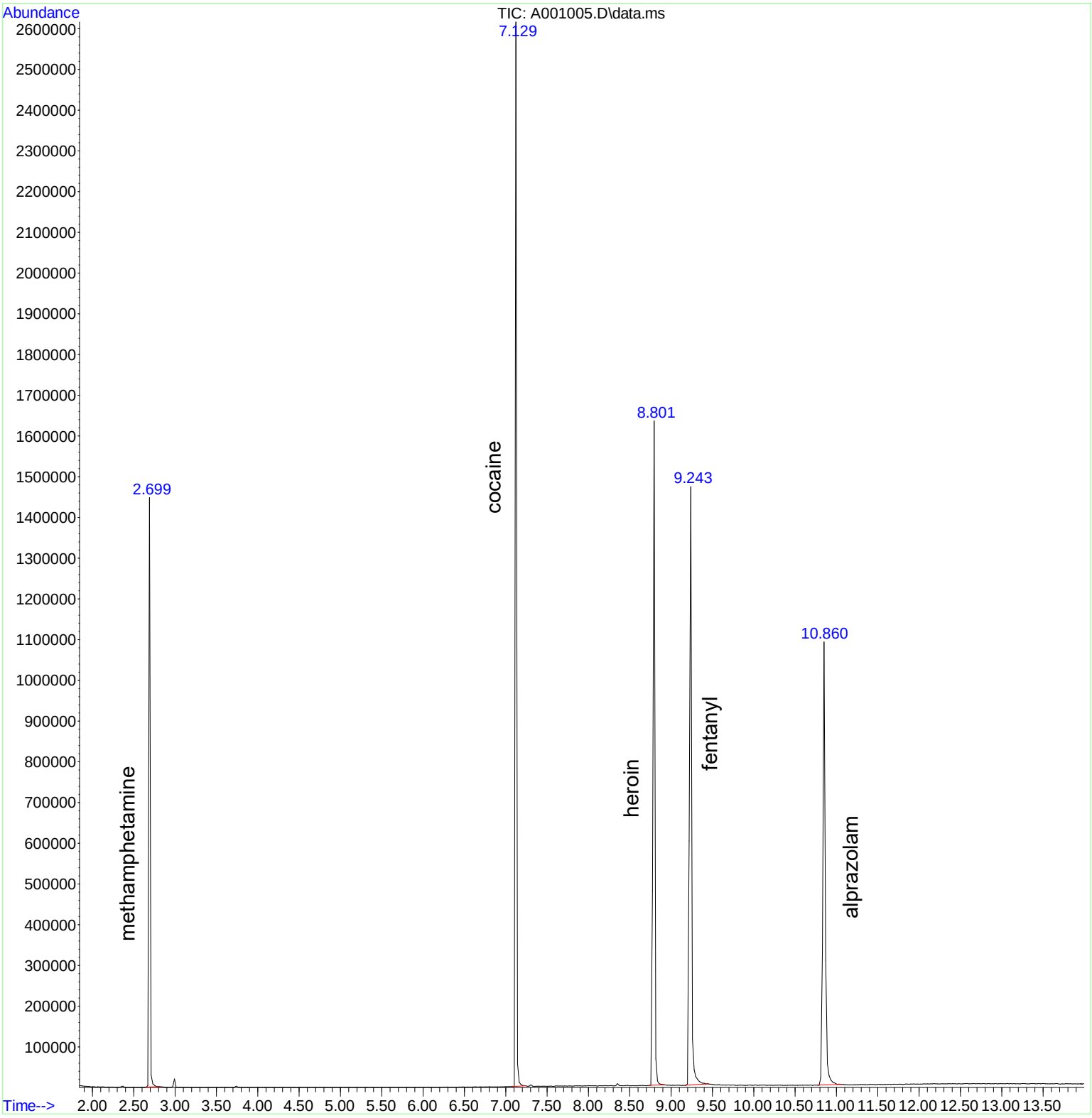
BCCL GC/MS #1
Retention Times for the Week of:

06/02/2025 - 06/08/2025

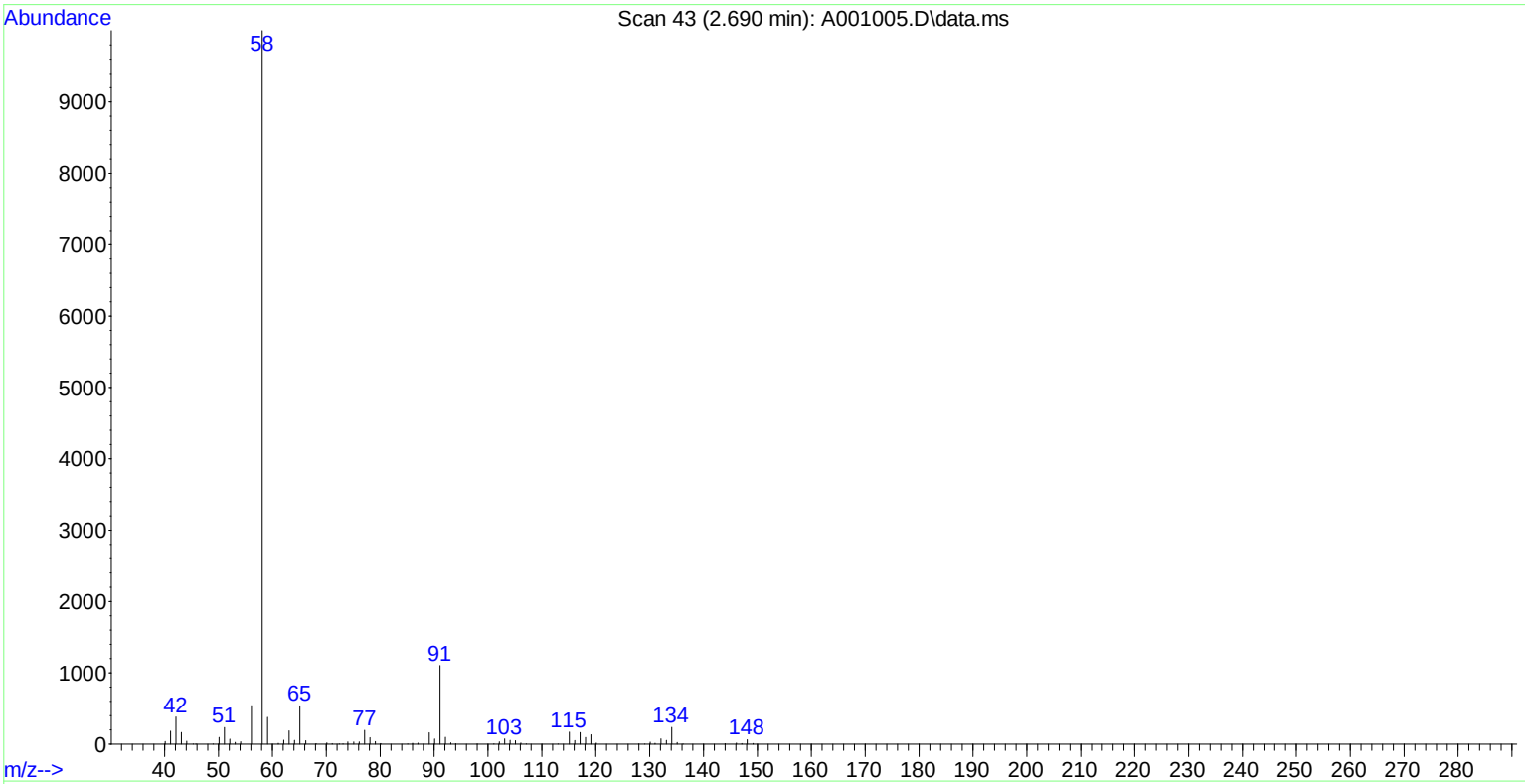
[x] **Tune: 06/02/2025 - Autotune KB**

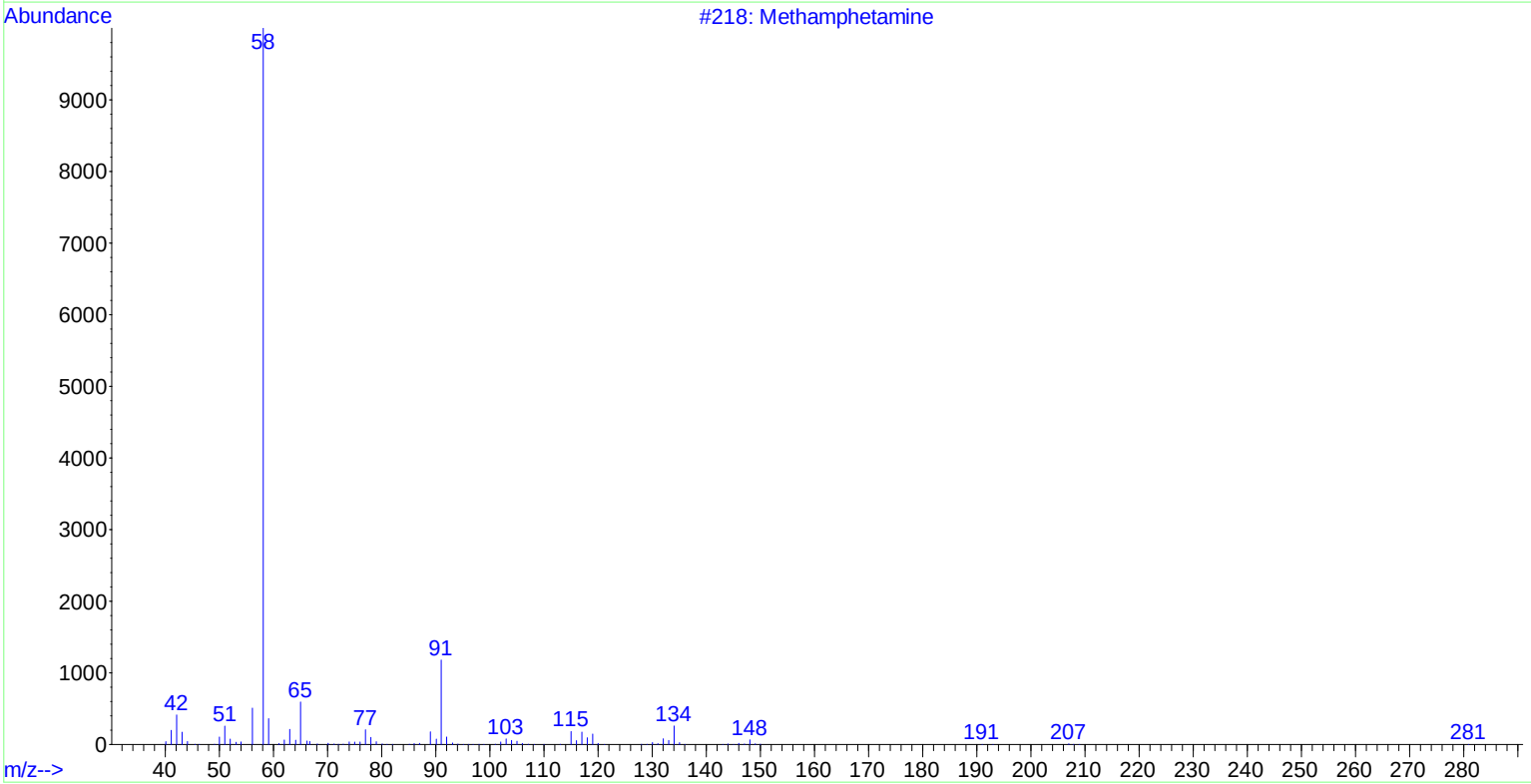
Standard	Standard #	Method	Retention Time	1% Window	
Methamphetamine	R-24-060	BCCL GenDrug	2.699	2.672	2.725
Cocaine	R-24-060	BCCL GenDrug	7.129	7.057	7.200
Heroin	R-24-060	BCCL GenDrug	8.801	8.712	8.889
Fentanyl	R-24-060	BCCL GenDrug	9.243	9.150	9.335
Alprazolam	R-24-060	BCCL GenDrug	10.860	10.751	10.968

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... 2025\060225\A001005.D
Operator : AGILENT SD GCMS #1
Instrument : SD GCMS 1
Acquired : 2 Jun 2025 8:20 using AcqMethod BCCL GENDRUG METHOD.M
Sample Name: CAYMAN GC/MS MIX 3 (R-24-060) 000002665 -KB 6/2/2025
Misc Info : In ACN

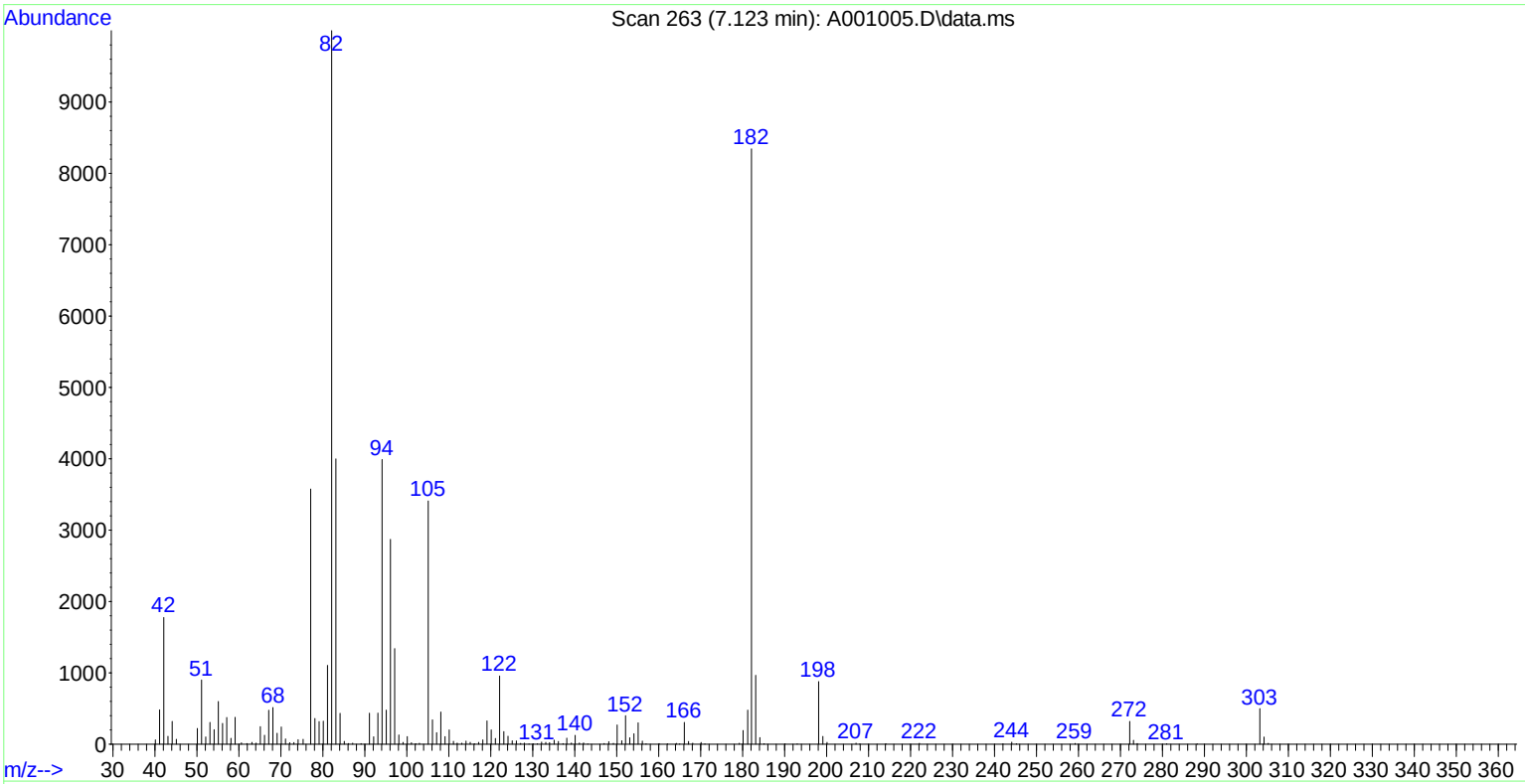


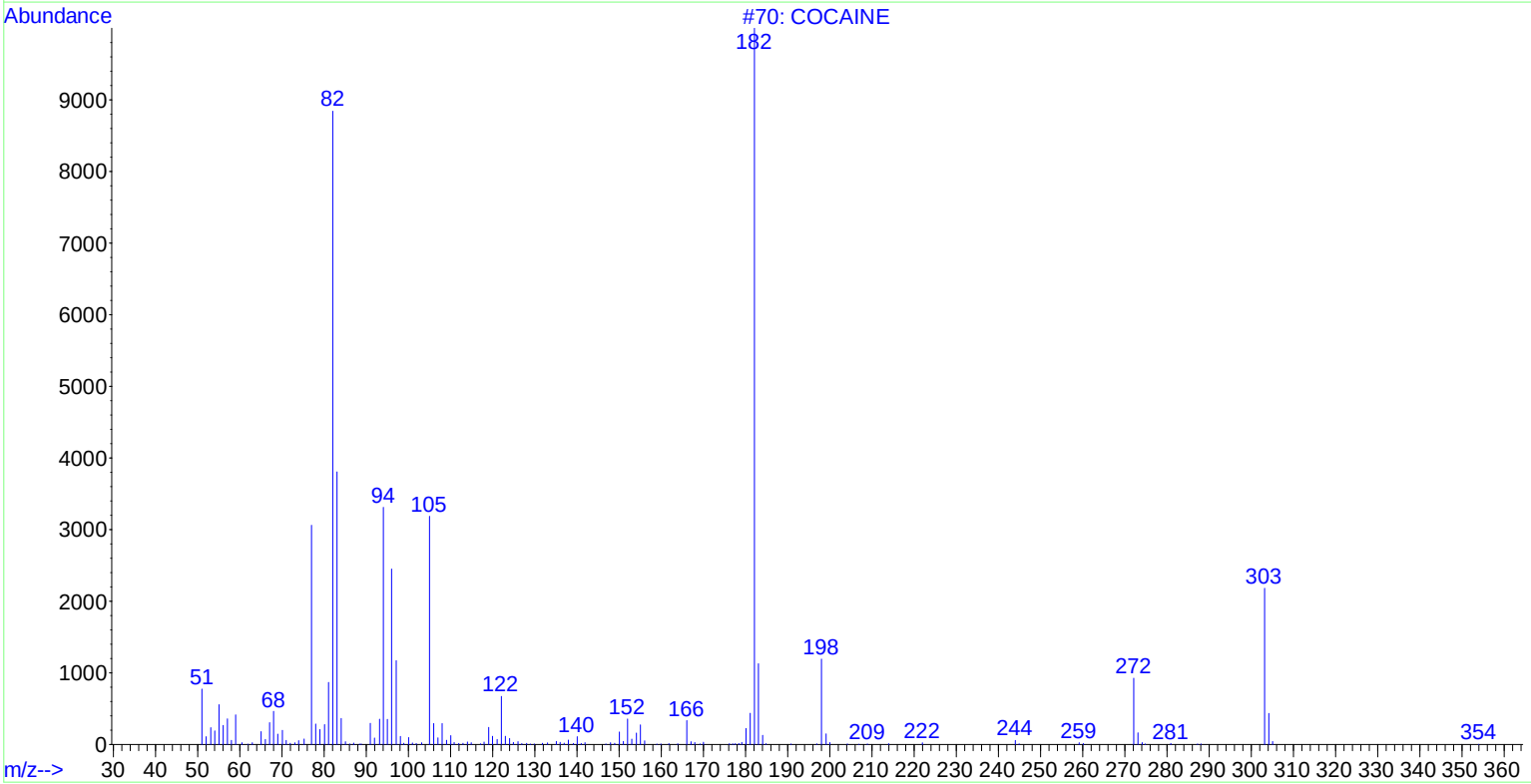
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Instrument : SD GCMS 1
Acquired : 2 Jun 2025 8:20 using AcqMethod BCCL GENDRUG METHOD.M
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Misc Info : In ACN



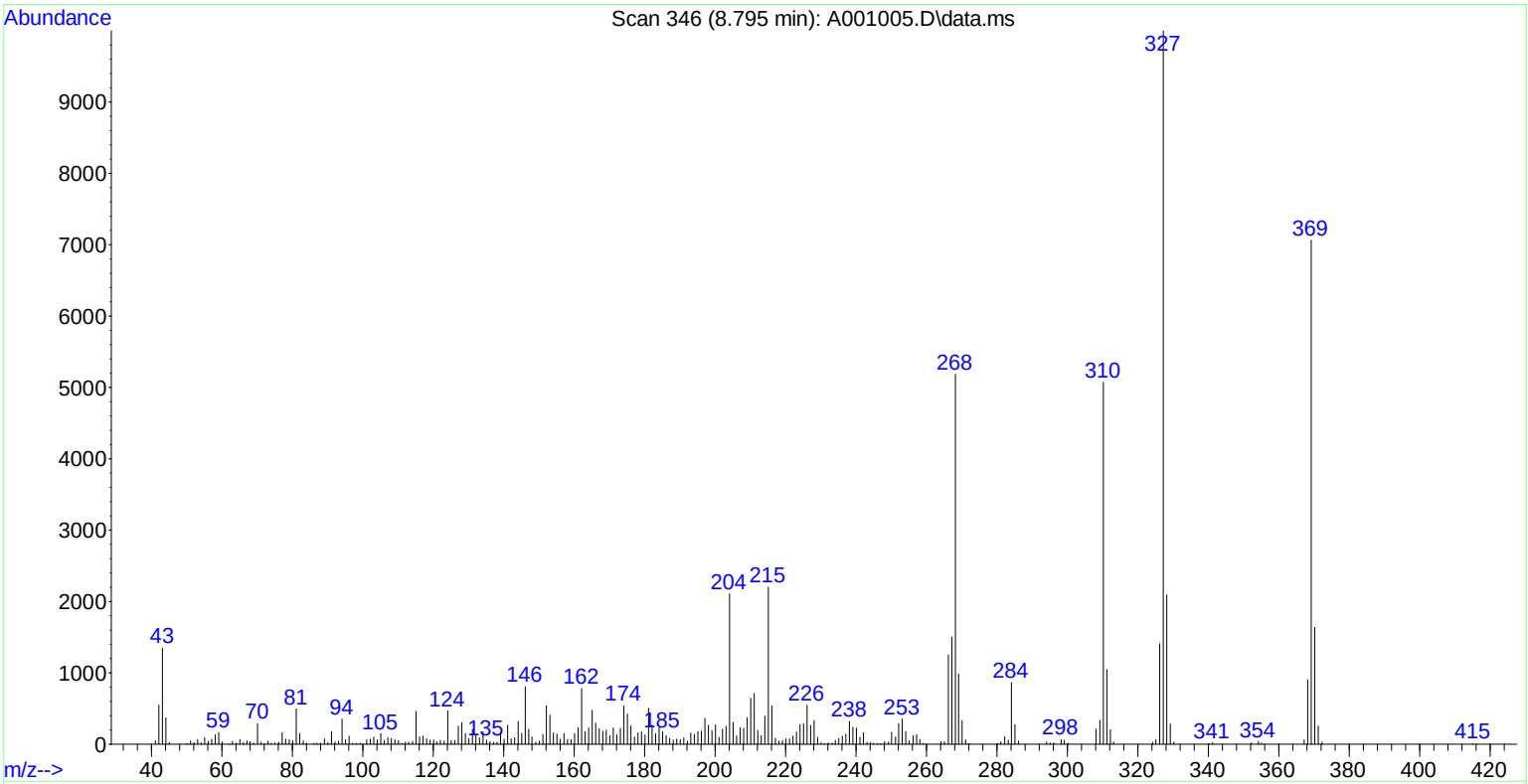


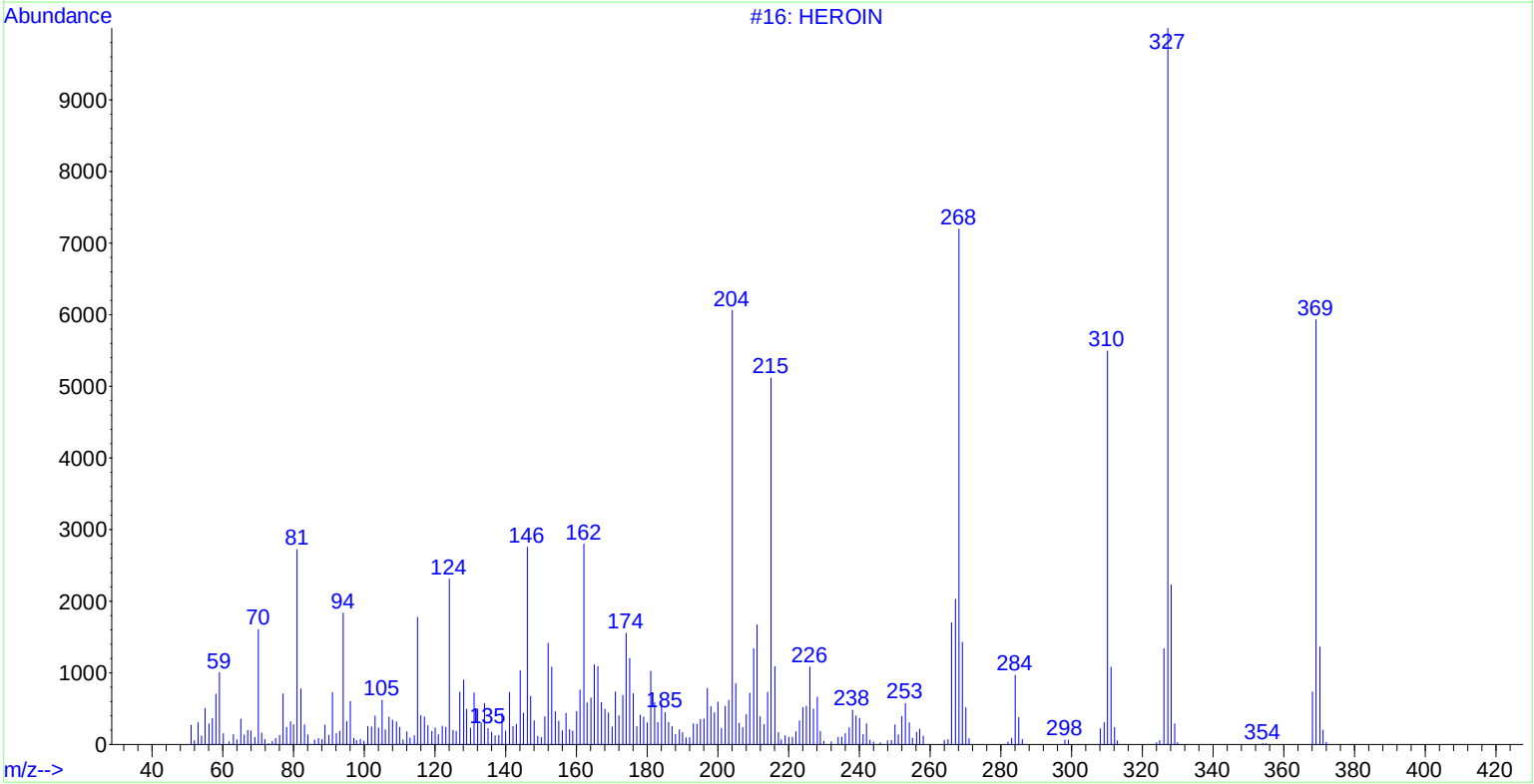
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Operator : AGILENT SD GCMS #1
Instrument : SD GCMS 1
Acquired : 2 Jun 2025 8:20 using AcqMethod BCCL GENDRUG METHOD.M
Sample Name: CAYMAN GC/MS MIX 3 (R-24-060) 000002665 -KB 6/2/2025
Misc Info : In ACN



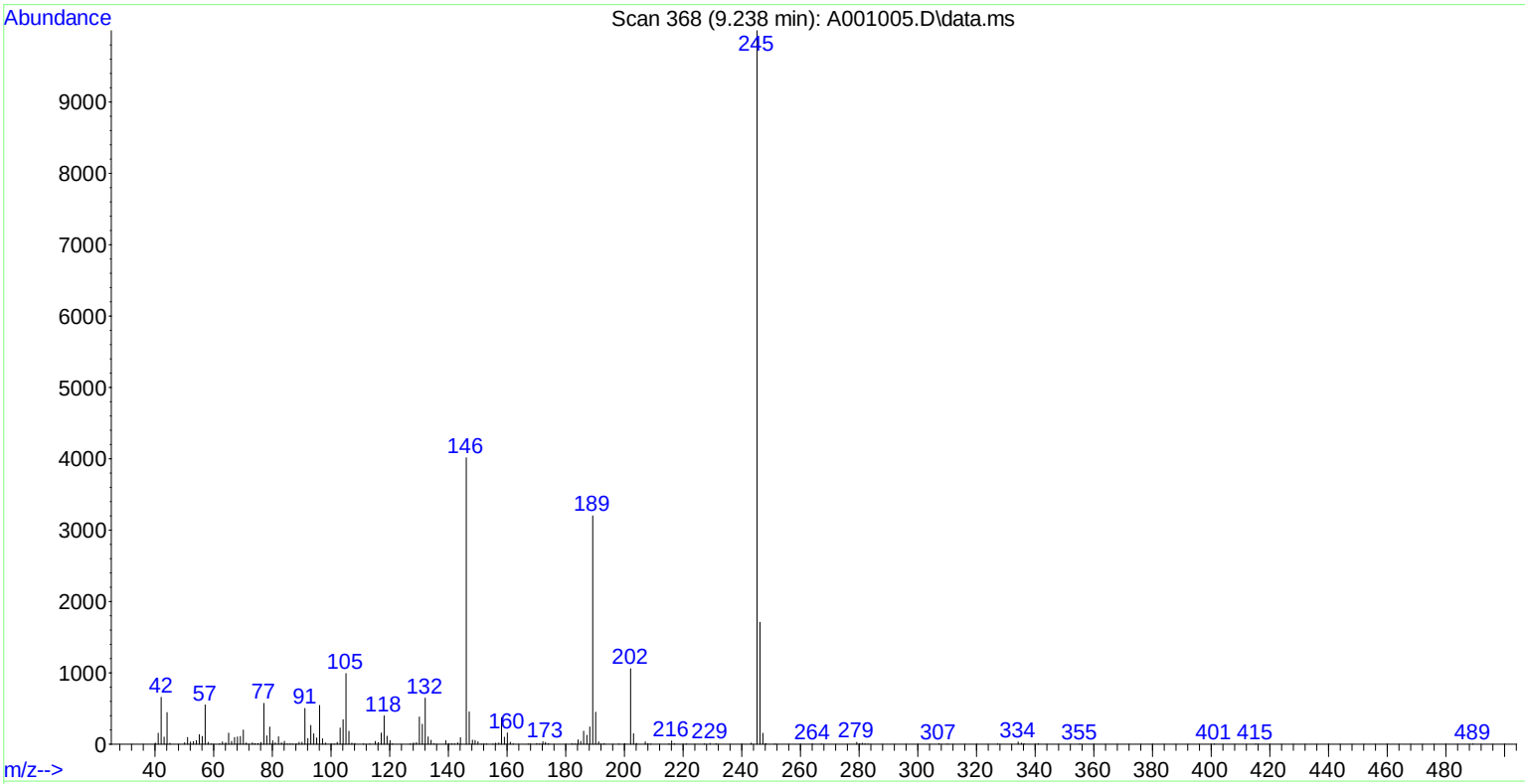


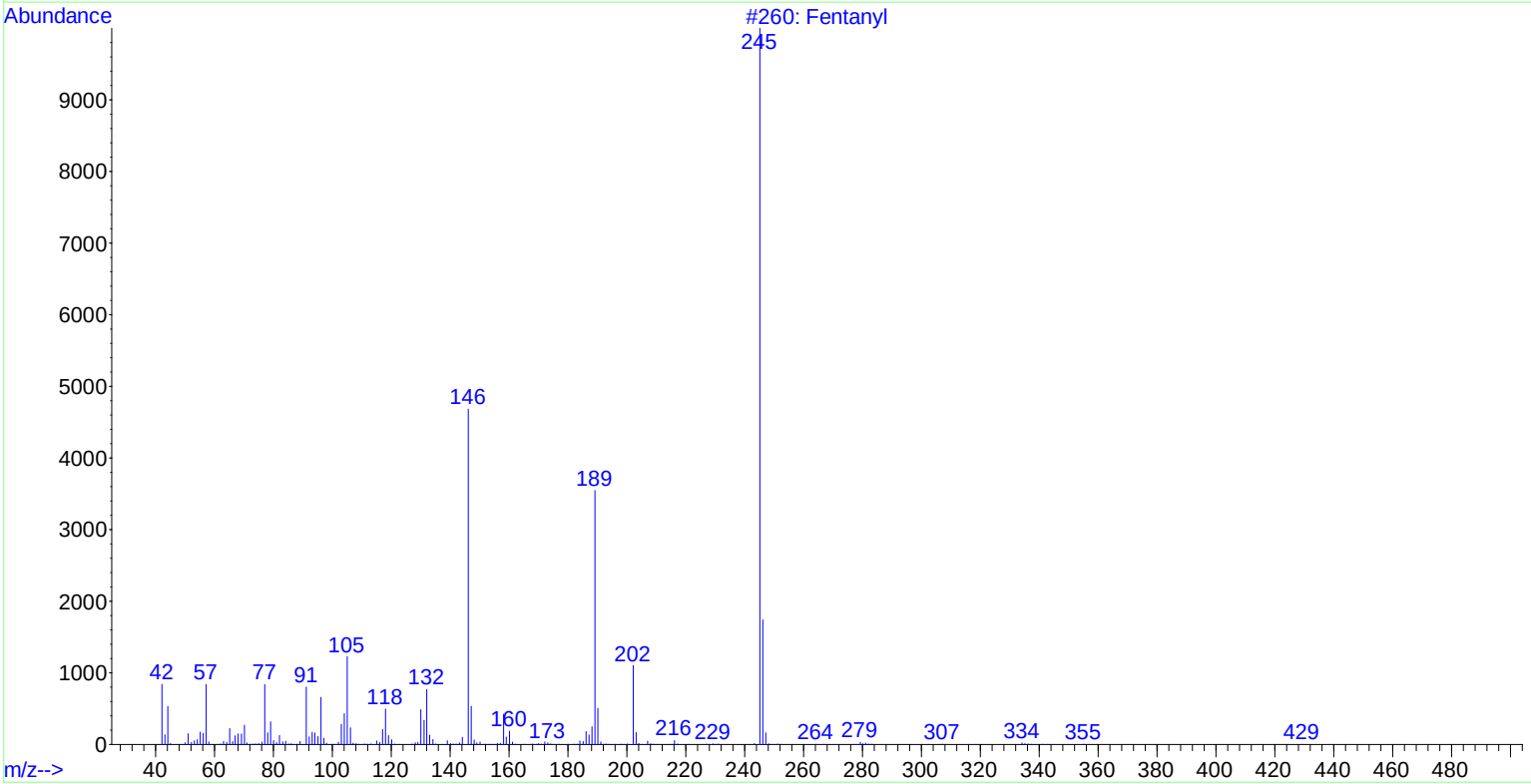
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Operator : AGILENT SD GCMS #1
Instrument : SD GCMS 1
Acquired : 2 Jun 2025 8:20 using AcqMethod BCCL GENDRUG METHOD.M
Sample Name: CAYMAN GC/MS MIX 3 (R-24-060) 000002665 -KB 6/2/2025
Misc Info : In ACN



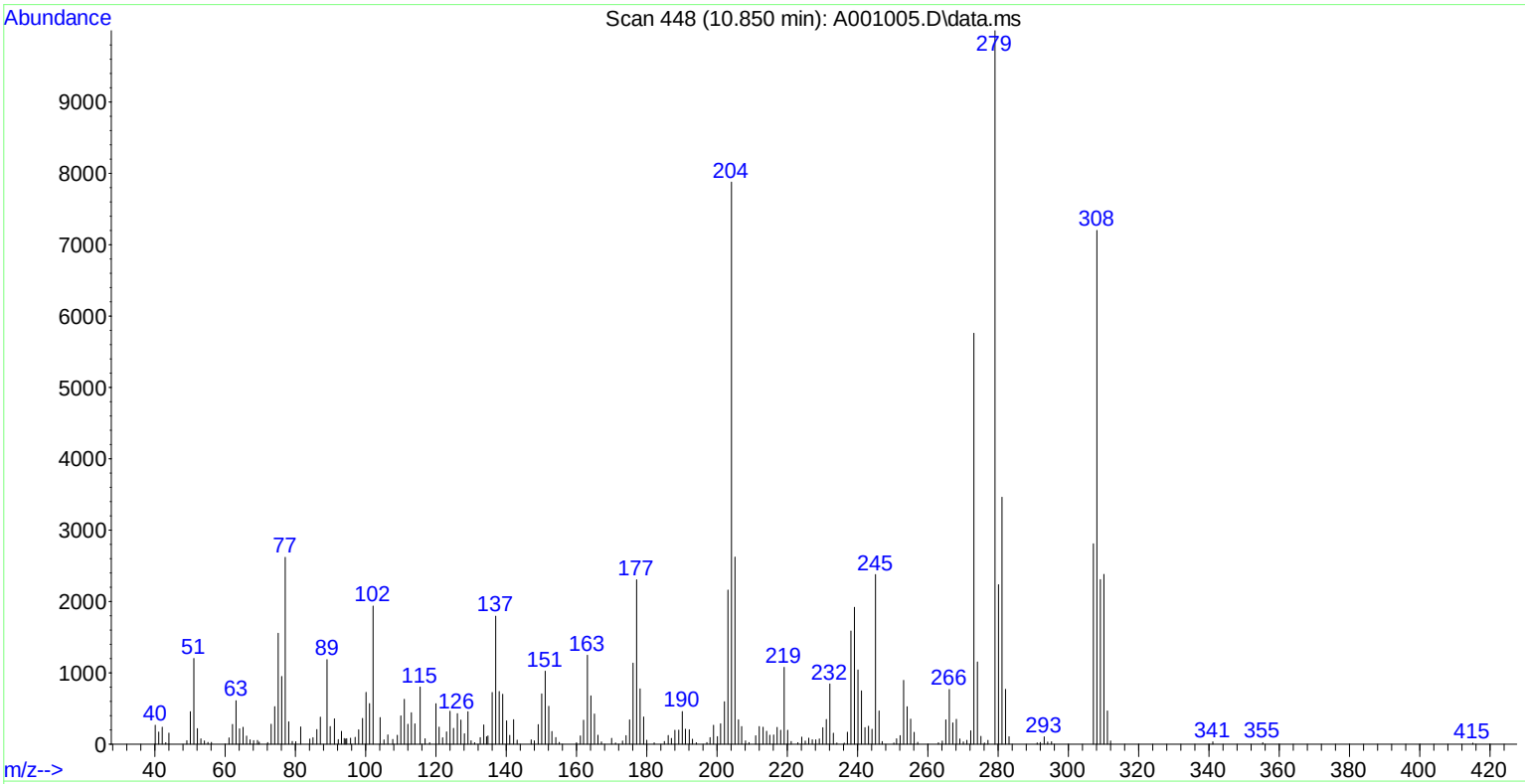


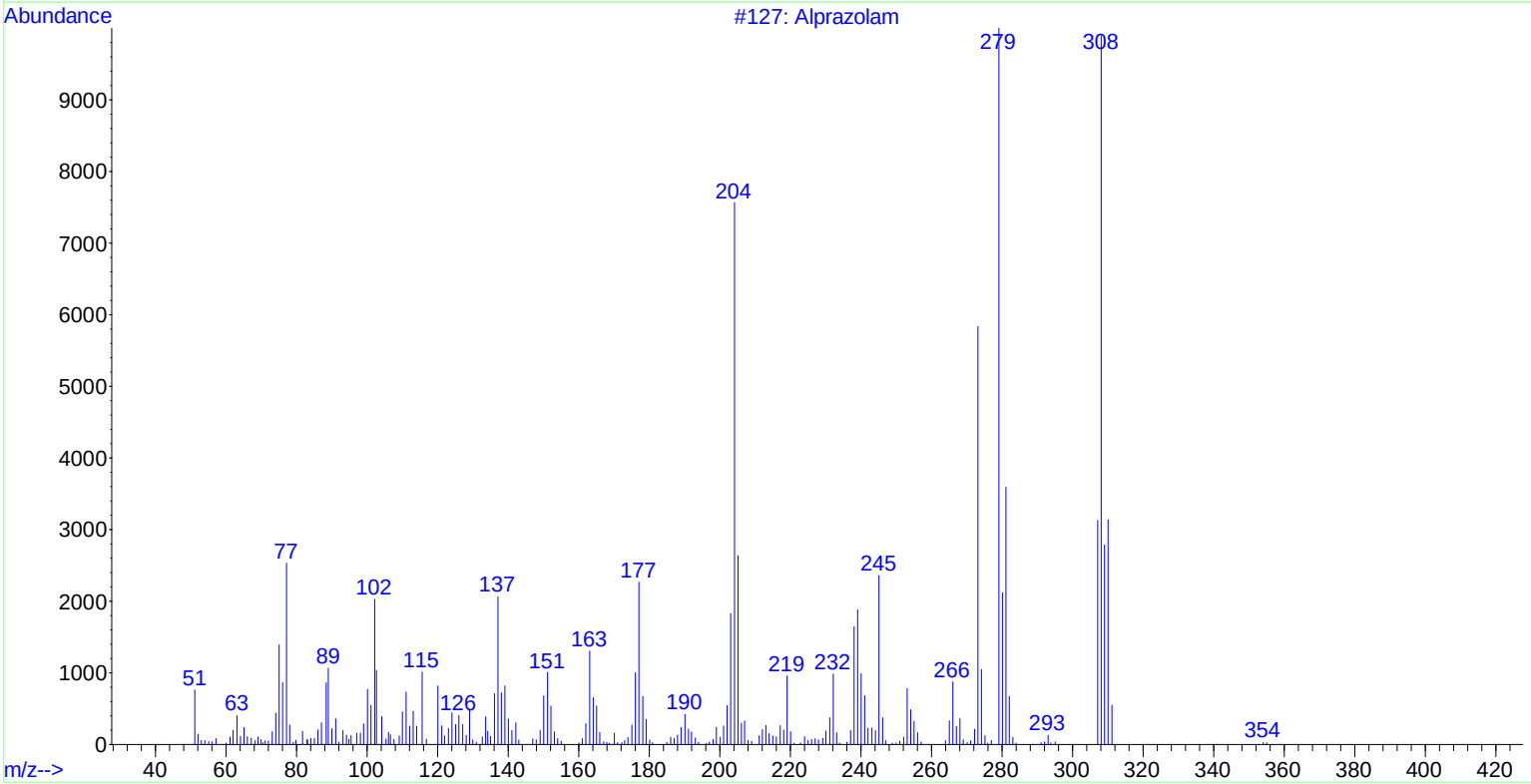
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Operator : AGILENT SD GCMS #1
Instrument : SD GCMS 1
Acquired : 2 Jun 2025 8:20 using AcqMethod BCCL GENDRUG METHOD.M
Sample Name: CAYMAN GC/MS MIX 3 (R-24-060) 000002665 -KB 6/2/2025
Misc Info : In ACN ✓



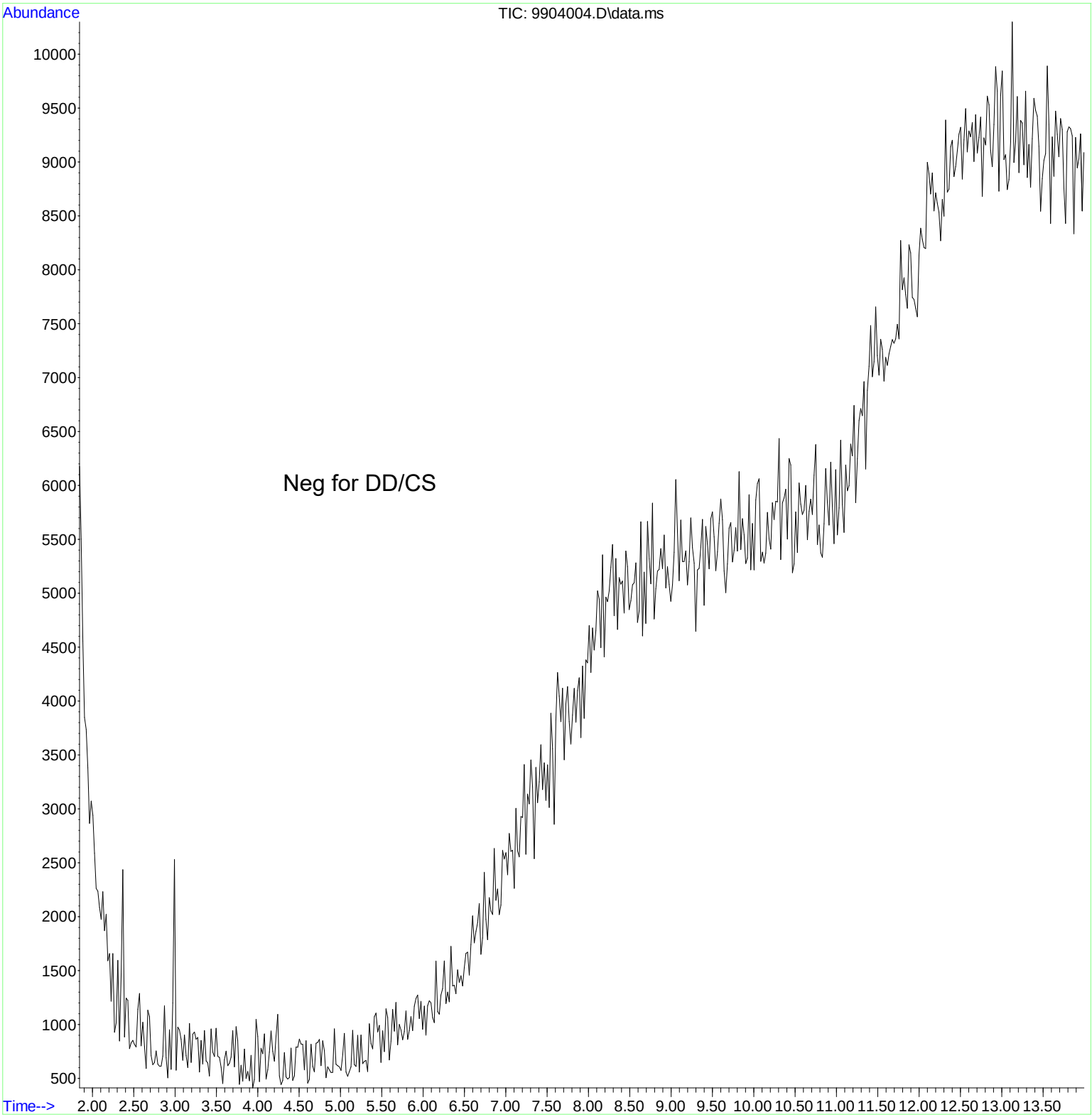


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Operator : AGILENT SD GCMS #1
Instrument : SD GCMS 1
Acquired : 2 Jun 2025 8:20 using AcqMethod BCCL GENDRUG METHOD.M
Sample Name: CAYMAN GC/MS MIX 3 (R-24-060) 000002665 -KB 6/2/2025
Misc Info : In ACN ✓



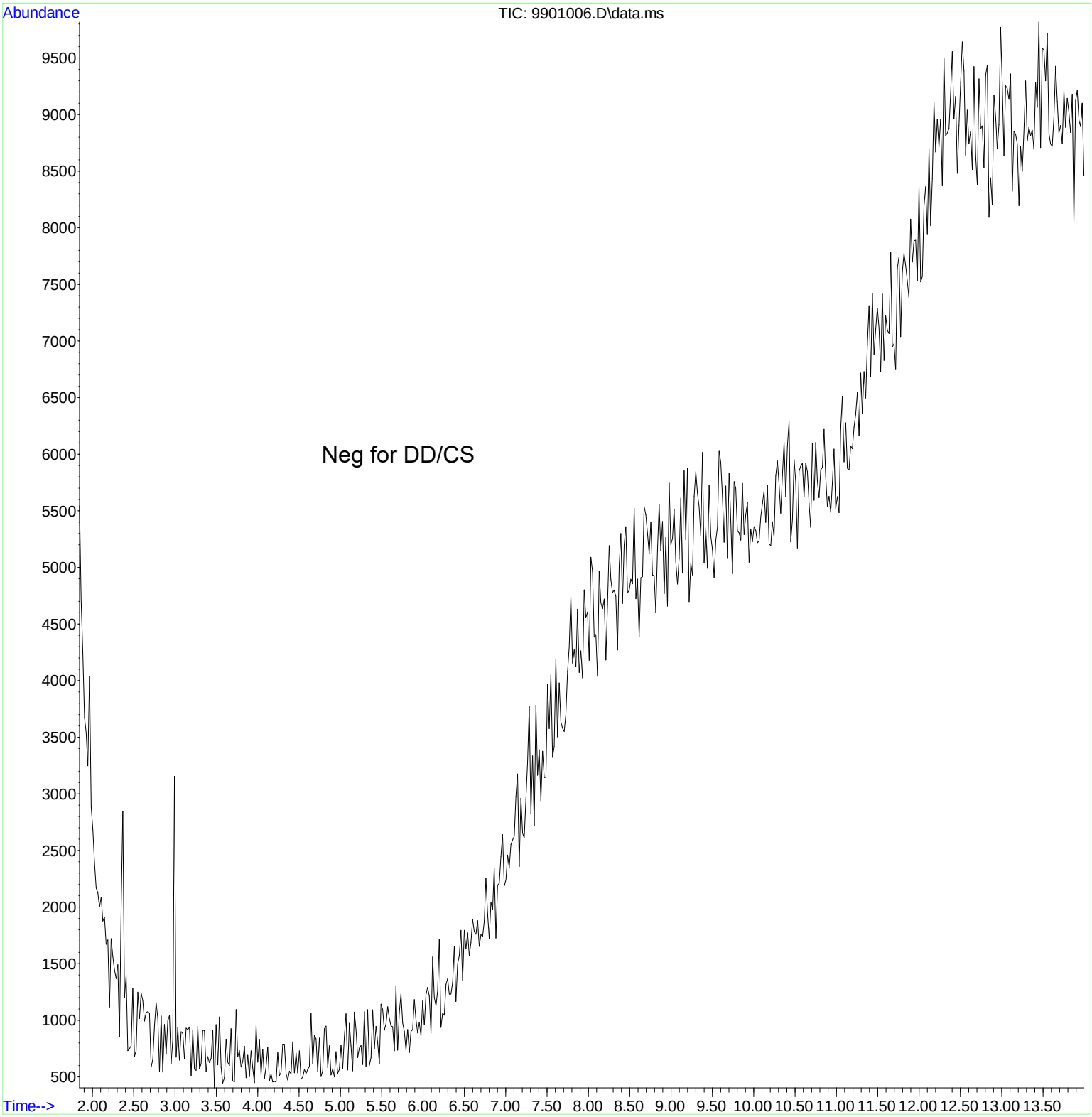


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Operator : AGILENT SD GCMS #1
Instrument : SD GCMS 1
Acquired : 2 Jun 2025 8:02 using AcqMethod BCCL GENDRUG METHOD.M
Sample Name: BLANK PRIOR TO CAYMAN GC/MS 000002664 -KB 6/2/2025
Misc Info : ACN (C-19-0068)



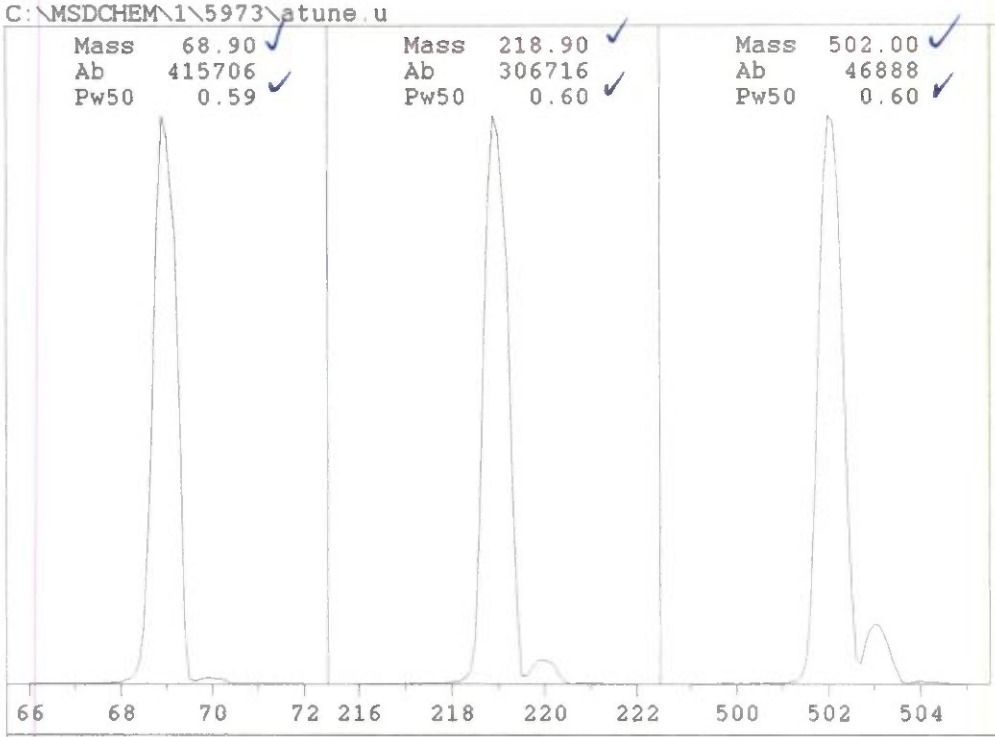
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Operator : AGILENT SD GCMS #1
Instrument : SD GCMS 1
Acquired : 2 Jun 2025 8:37 using AcqMethod BCCL GENDRUG METHOD.M
Sample Name: BLANK - INSTRUMENT READY 000002664
Misc Info : ACN (C-19-0068)

-KB 6/2/2025 ✓



5973 Autotune

Mon Jun 09 08:44:24 2025 Instrument: SD GCMS 1
C:\MSDCHEM\1\5973\atune.u

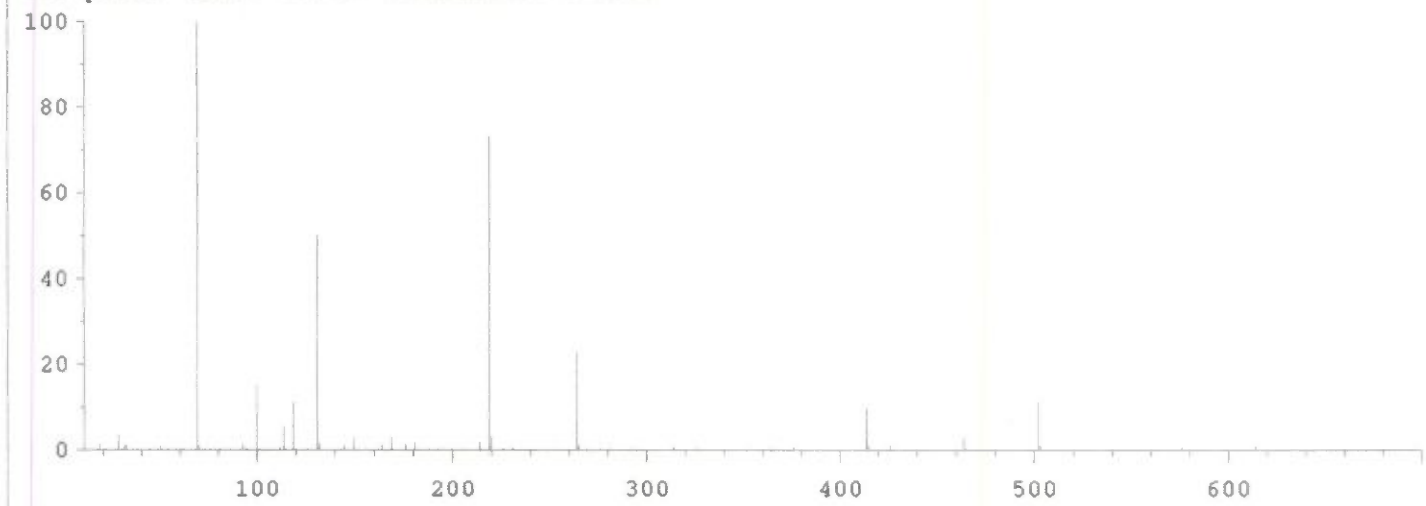


Ion Pol	POS	MassGain	380
		MassOffs	-12
Emission	34.6	AmuGain	2449
EIEnrgy	69.9	AmuOffs	122
Filament	1	Wid219	-0.031
		DC Pol	POS
Repeller	29.79		
IonFcus	90.2	HEDEnab	ON
EntLens	14.5	EMVolts	1576
EntOffs	19.07		
		Samples	8
PFTBA	OPEN	Averages	3
		Stepsize	0.10

Zones:

MS Source	230	TurboSpd	100
MS Quad	150		

Scan: 10.00 - 700.00 Samples: 8 Thresh: 100 Step: 0.10
128 peaks Base: 69.00 Abundance: 373184



Mass	Abund	Rel Abund	Iso Mass	Iso Abund	Iso Ratio
69.00	373184	100.00	70.00	3868	1.04
219.00	273472	73.28	220.00	11895	4.35
502.10	42792	11.47	503.10	4170	9.74

Air/Water Check: H2O~1.39% N2~3.70% O2~1.14% CO2~0.11% N2/H2O~265.01%

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

Ramp Criteria:
Ion Focus Maximum 90 volts using ion 502: EM Gain 100084
Repeller Maximum 35 volts using ion 219:

MassGain Values @Samples: 379@3 379@2 379@1 379@0 380@FS

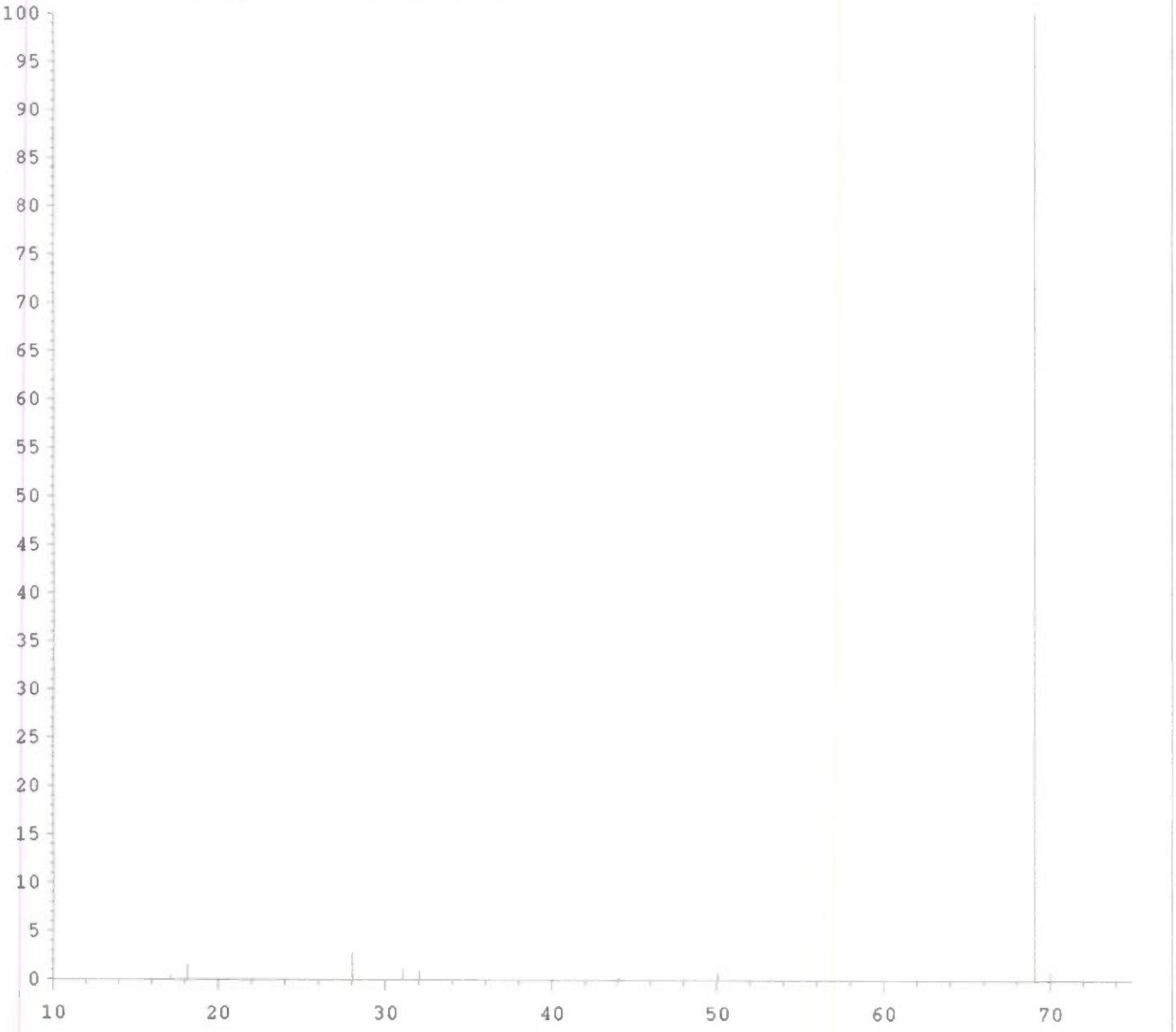
TARGET MASS:	50	69	131	219	414	502	800
Amu Offset:	122.0	122.0	122.0	122.0	122.0	122.0	122.0
Entrance Lens Offset:	19.1	19.1	19.1	19.1	19.1	19.1	19.1

597x Air and Water Check

JS
OK

Instrument: SD GCMS 1
Mon Jun 09 08:34:39 2025 C:\MSDCHEM\1\5973\

Scan: 10.00 - 75.00 Samples: 8 Thresh: 0 Step: 0.10
65 peaks Base: 69.05 Abundance: 474688



Mass	Abund	Rel Abund	Iso Mass	Iso Abund	Iso Ratio
69.05	474688	100.00	70.05	4909	1.03
18.15	7807	1.64	19.15	76	0.97
28.05	13336	2.81	29.15	189	1.42

Current Params used: atune.u

Relative abundances:
18/69 = 1.64 Water%
28/69 = 2.81 Nitrogen%
32/69 = 1.00 Oxygen%
44/69 = 0.28 Carbon Dioxide%
28/18 = 170.82 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	219.00	Ok
Position of mass 502	502.05	Ok
Position of isotope mass 70	70.00	Ok
Position of isotope mass 220	219.99	Ok
Position of isotope mass 503	503.05	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%)	4.30	Ok
Ratio of mass 503 to mass 502(7.9 - 12.3%)	10.09	Ok
Ratio of 219 to 69 should be > 40% and is	74.10	Ok
Ratio of 502 to 69 should be > 2.4% and is	11.39	Ok
Mass 69 Precursor (<= 3%)	0.23	Ok
Mass 219 Precursor (<= 6%)	0.37	Ok
Mass 502 Precursor (<= 12%)	0.53	Ok
Testing for a leak in the system		
Ratio of 18 to 69 (<20%)	1.40	Ok
Ratio of 28 to 69 (<10%)	3.81	Ok
Electron Multiplier Voltage	1576	Ok

Tune portion of System Verification passed.

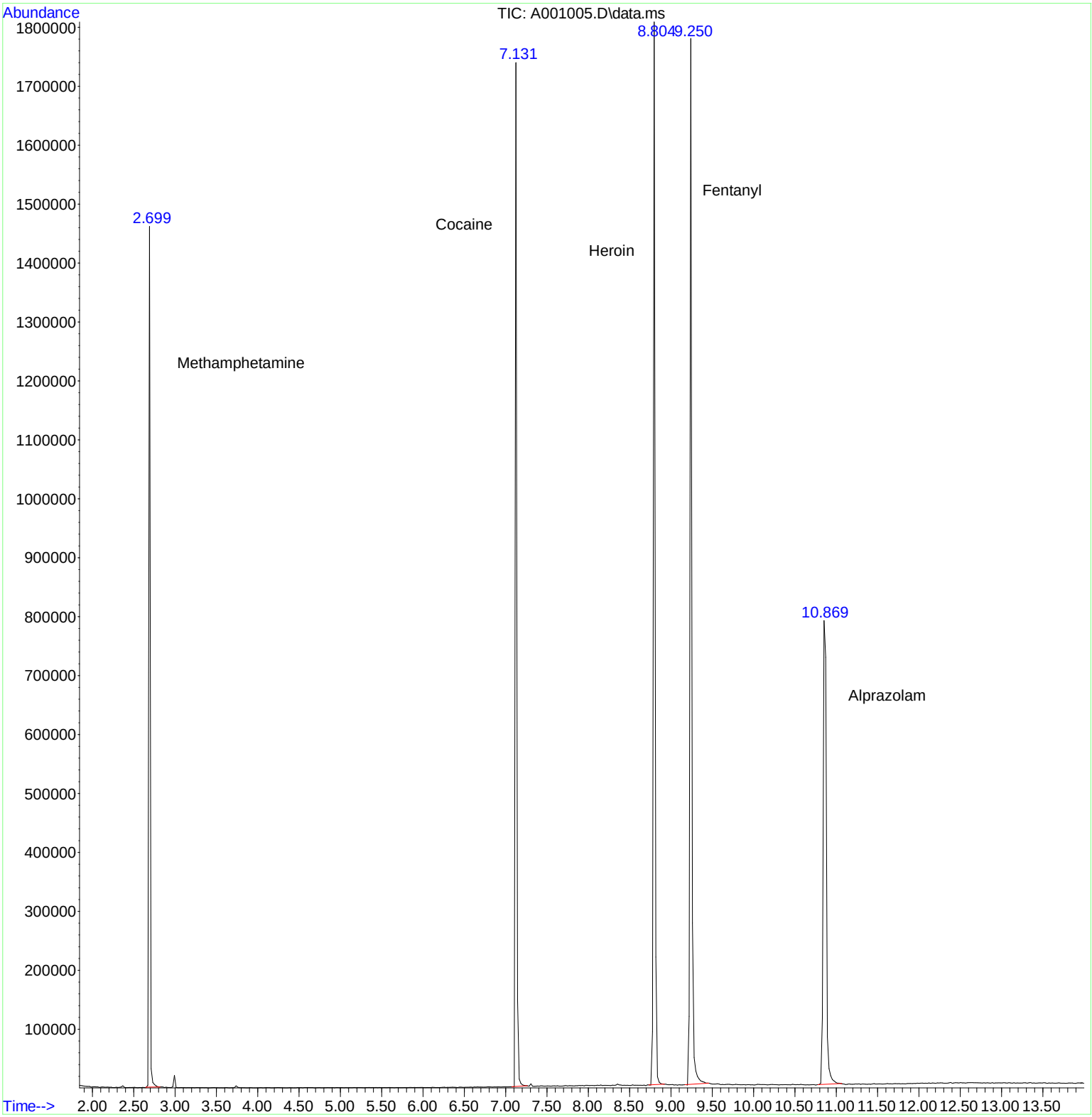
BCCL GC/MS #1
Retention Times for the Week of:

06/09/2025 - 06/15/2025

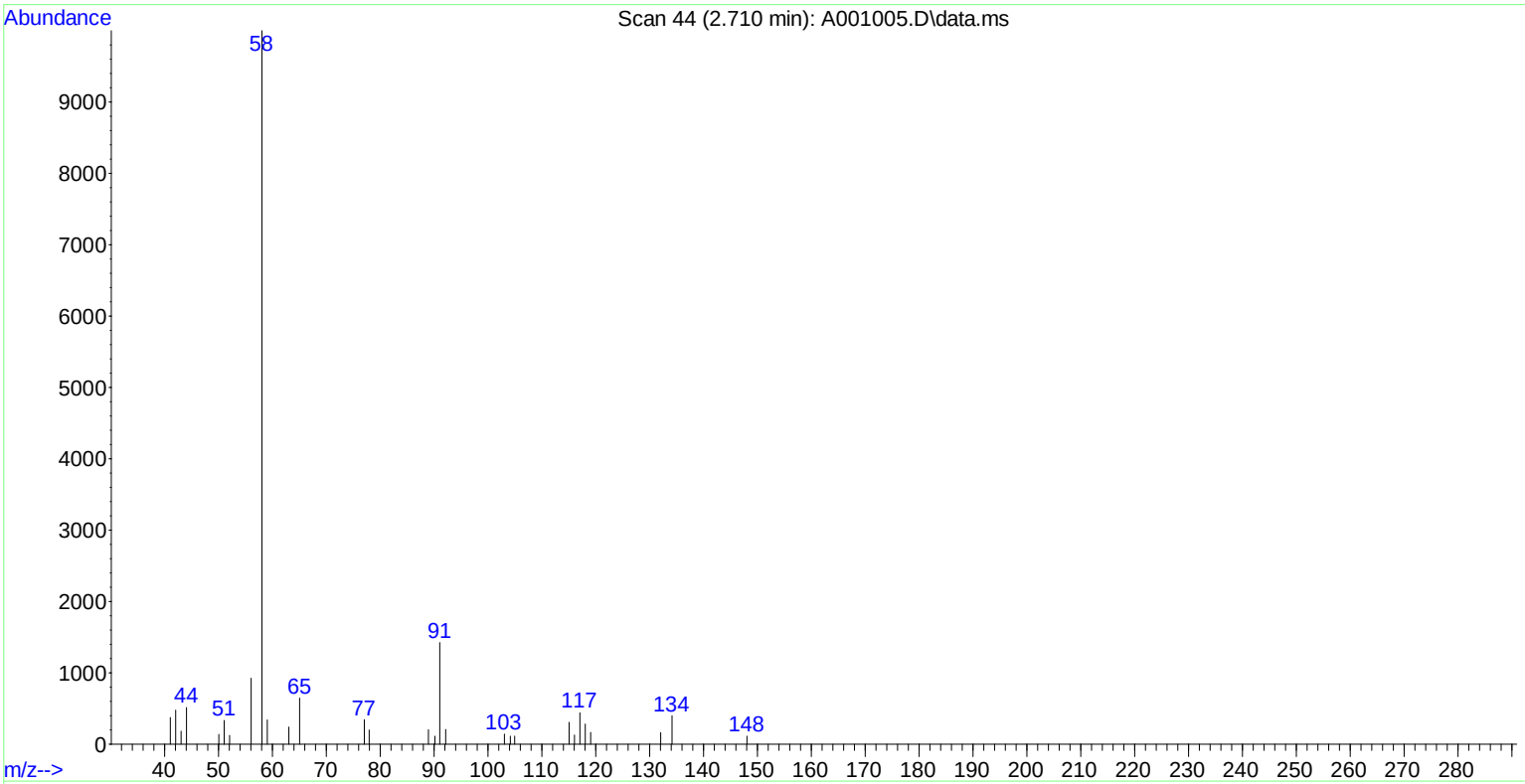
[x] **Tune: 06/09/2025 - Autotune DS**

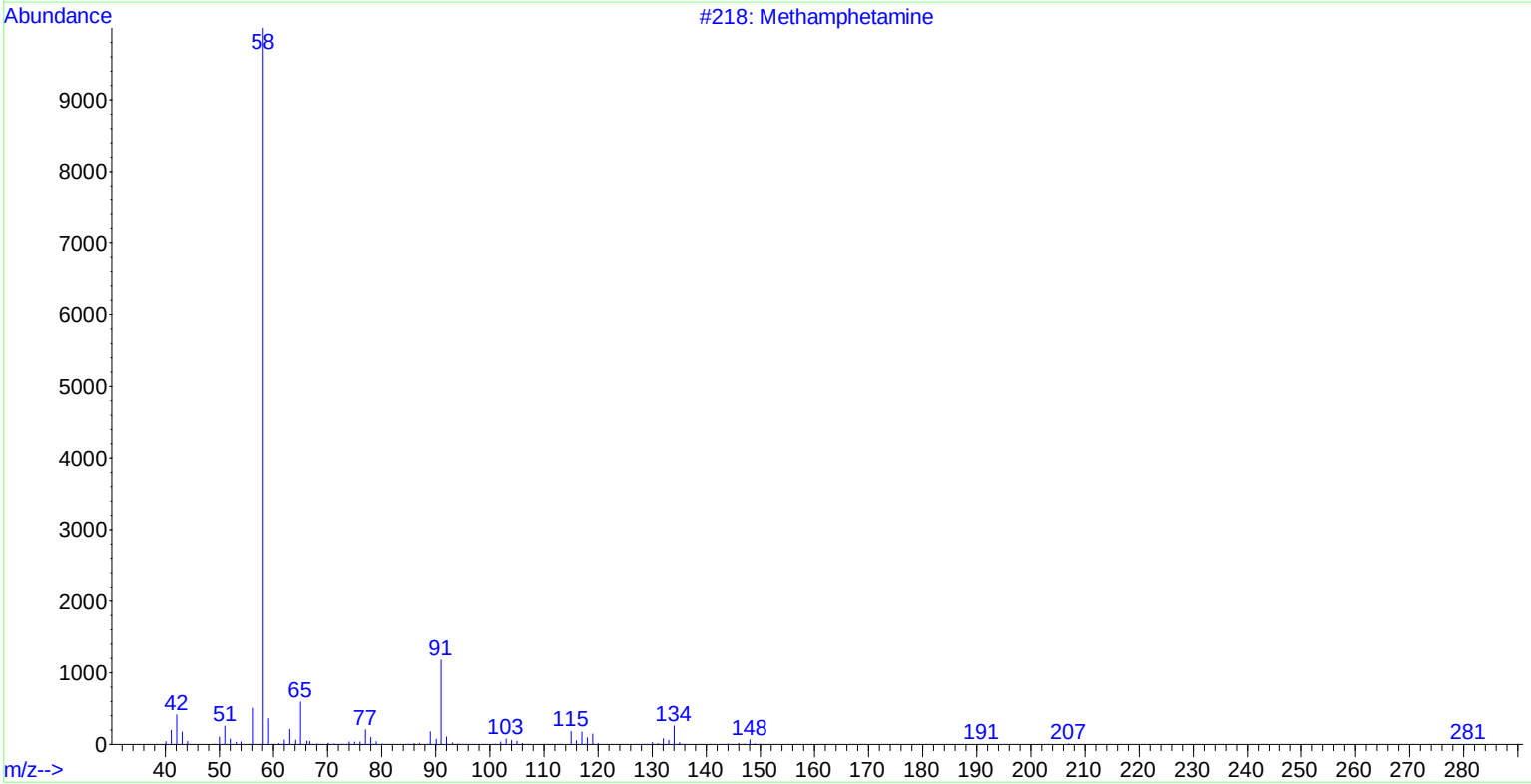
Standard	Standard #	Method	Retention Time	1% Window	
Methamphetamine	R-24-060	BCCL GenDrug	2.699	2.672	2.725
Cocaine	R-24-060	BCCL GenDrug	7.131	7.059	7.202
Heroin	R-24-060	BCCL GenDrug	8.804	8.715	8.892
Fentanyl	R-24-060	BCCL GenDrug	9.250	9.157	9.342
Alprazolam	R-24-060	BCCL GenDrug	10.869	10.760	10.977
Codeine	R-23-022	DrugTest50_20x	17.782	17.604	17.959
Phencyclidine (PCP)	R-24-017	DrugTest50_20x	15.640	15.483	15.796

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... 2025\2nd qtr\060925\A001005.D
Operator : AGILENT SD GCMS #1
Instrument : SD GCMS 1
Acquired : 9 Jun 2025 9:59 using AcqMethod BCCL GENDRUG METHOD.M
Sample Name: CAYMAN GC/MS MIX 3 (R-24-060) 000002665
Misc Info : In ACN

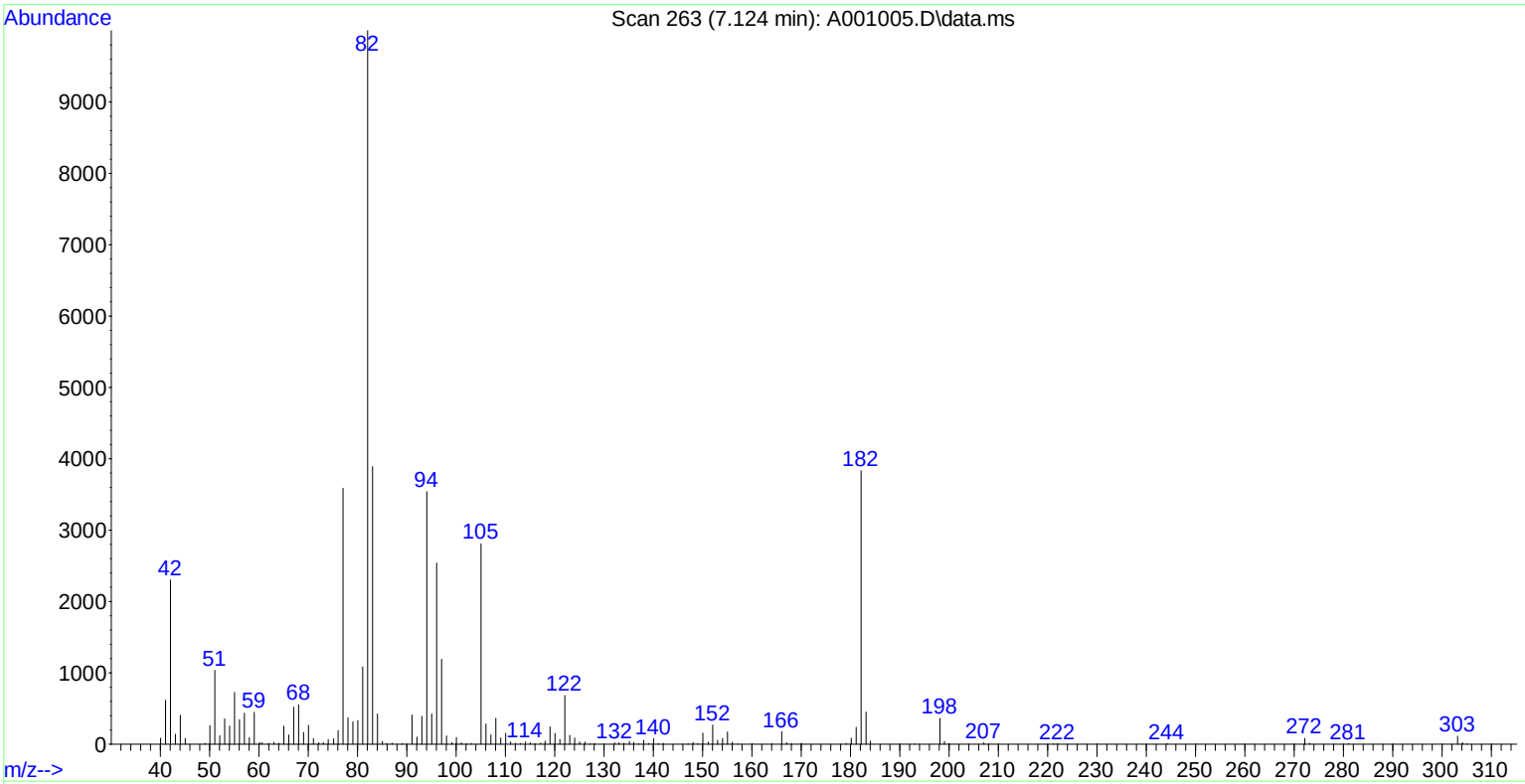


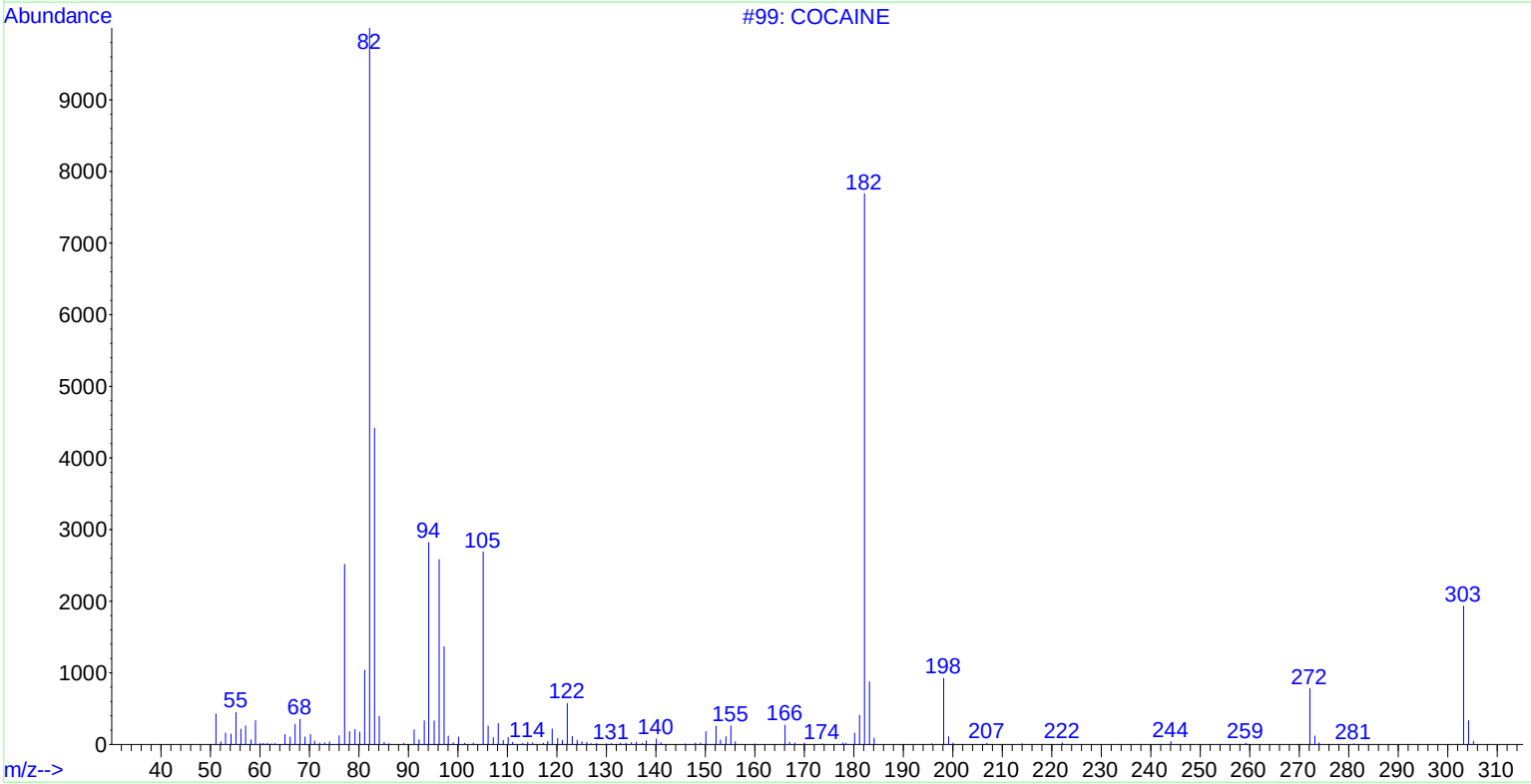
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... 2025\2nd qtr\060925\A001005.D
Operator : AGILENT SD GCMS #1
Instrument : SD GCMS 1
Acquired : 9 Jun 2025 9:59 using AcqMethod BCCL GENDRUG METHOD.M
Sample Name: CAYMAN GC/MS MIX 3 (R-24-060) 000002665
Misc Info : In ACN



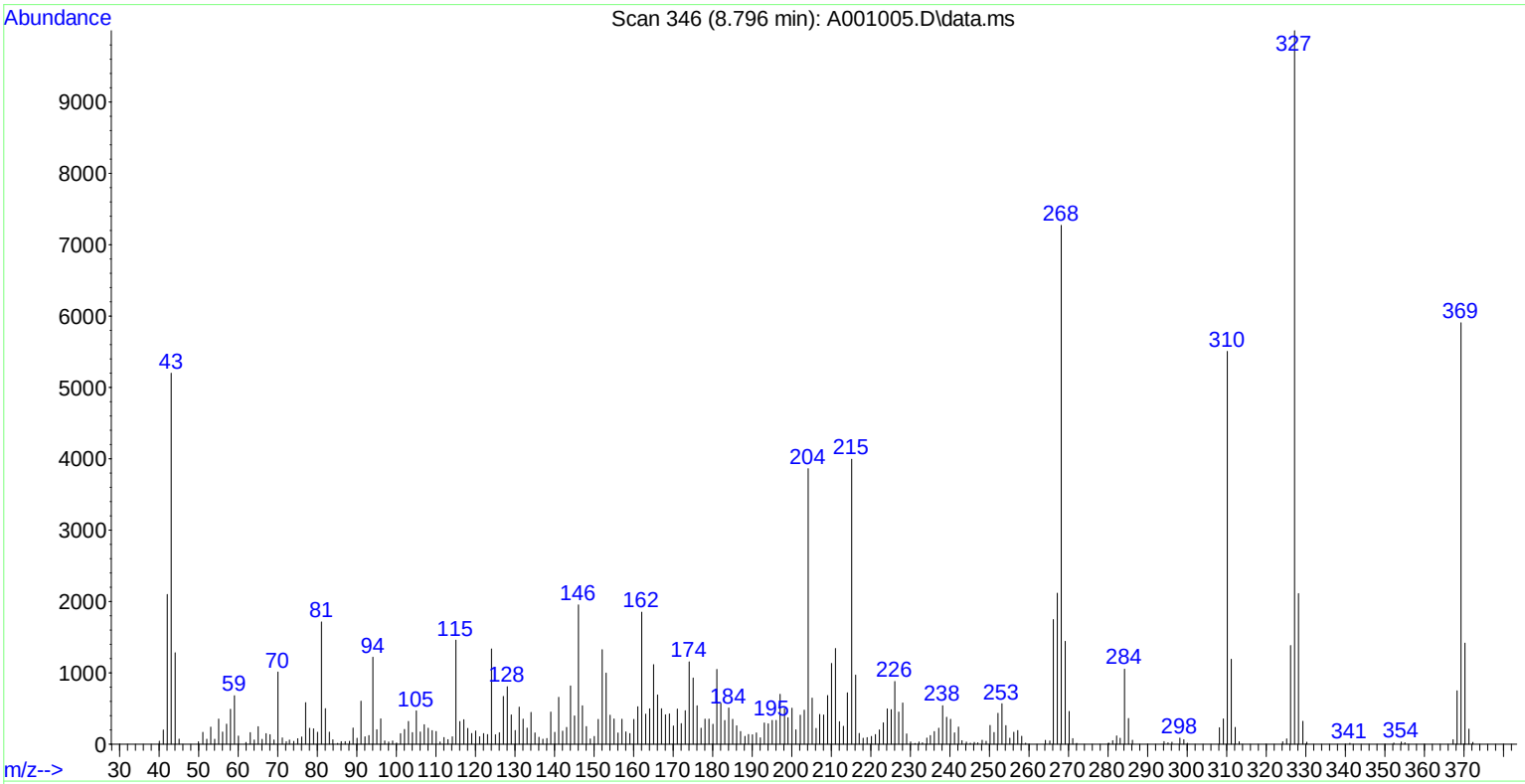


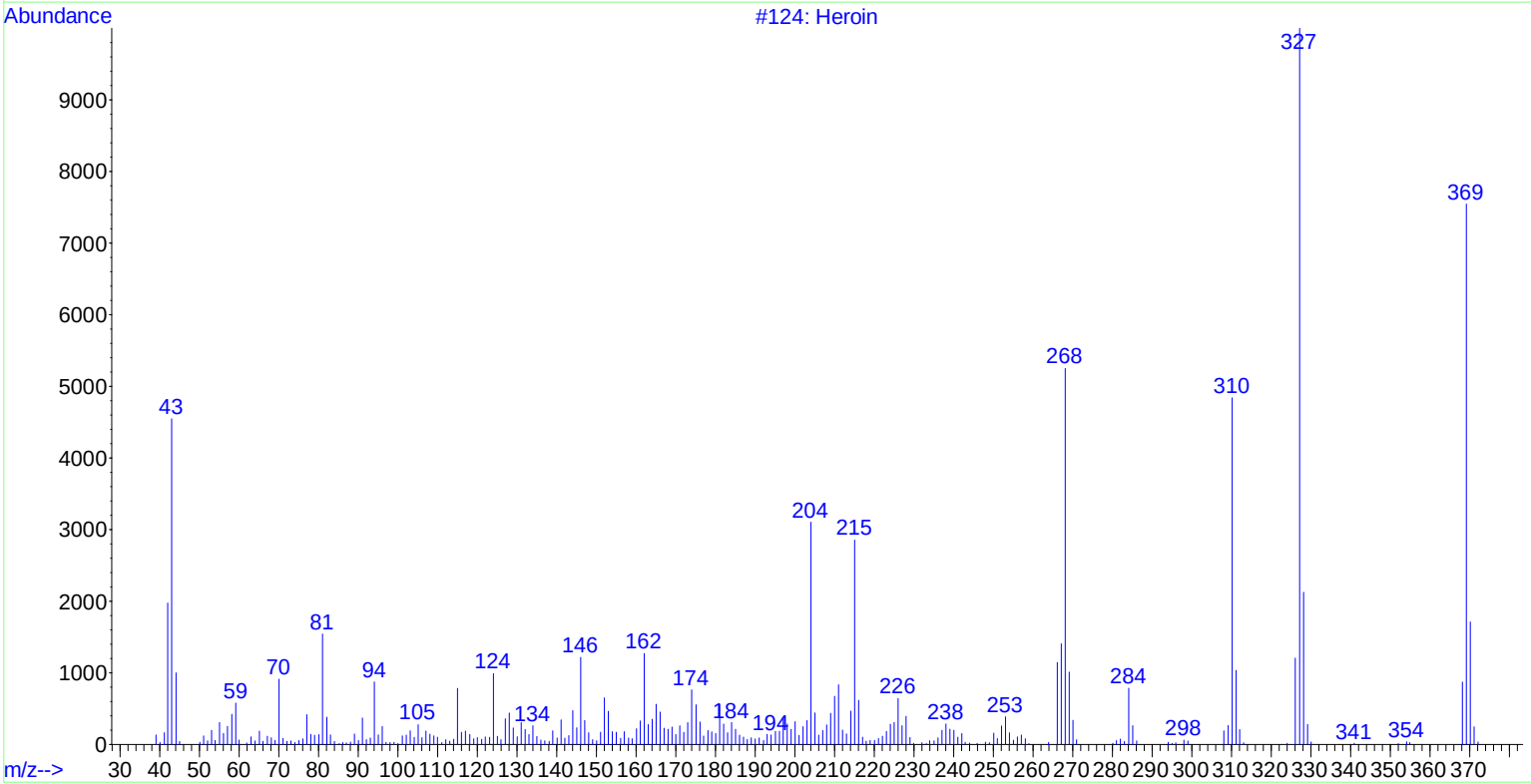
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... 2025\2nd qtr\060925\A001005.D
Operator : AGILENT SD GCMS #1
Instrument : SD GCMS 1
Acquired : 9 Jun 2025 9:59 using AcqMethod BCCL GENDRUG METHOD.M
Sample Name: CAYMAN GC/MS MIX 3 (R-24-060) 000002665
Misc Info : In ACN



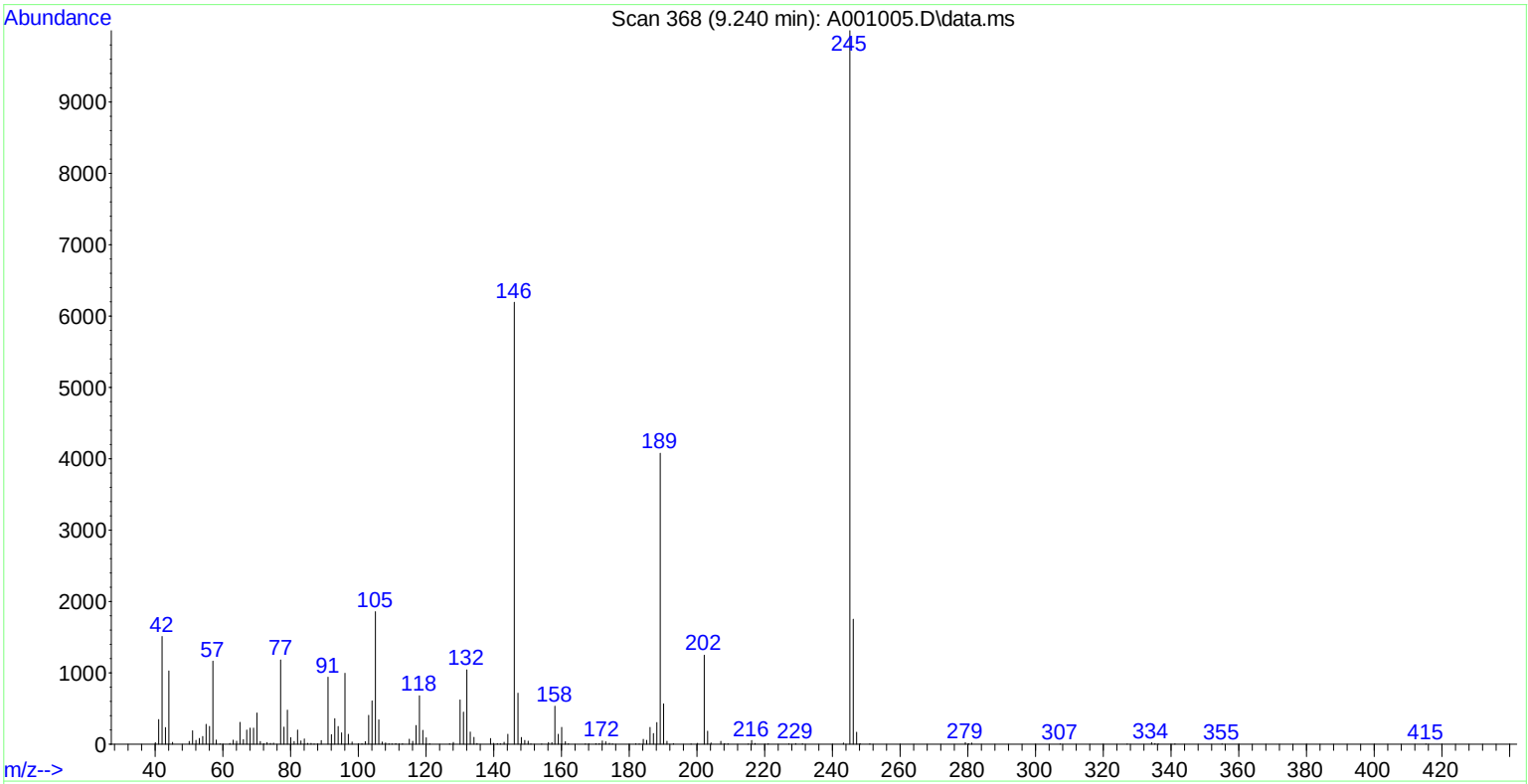


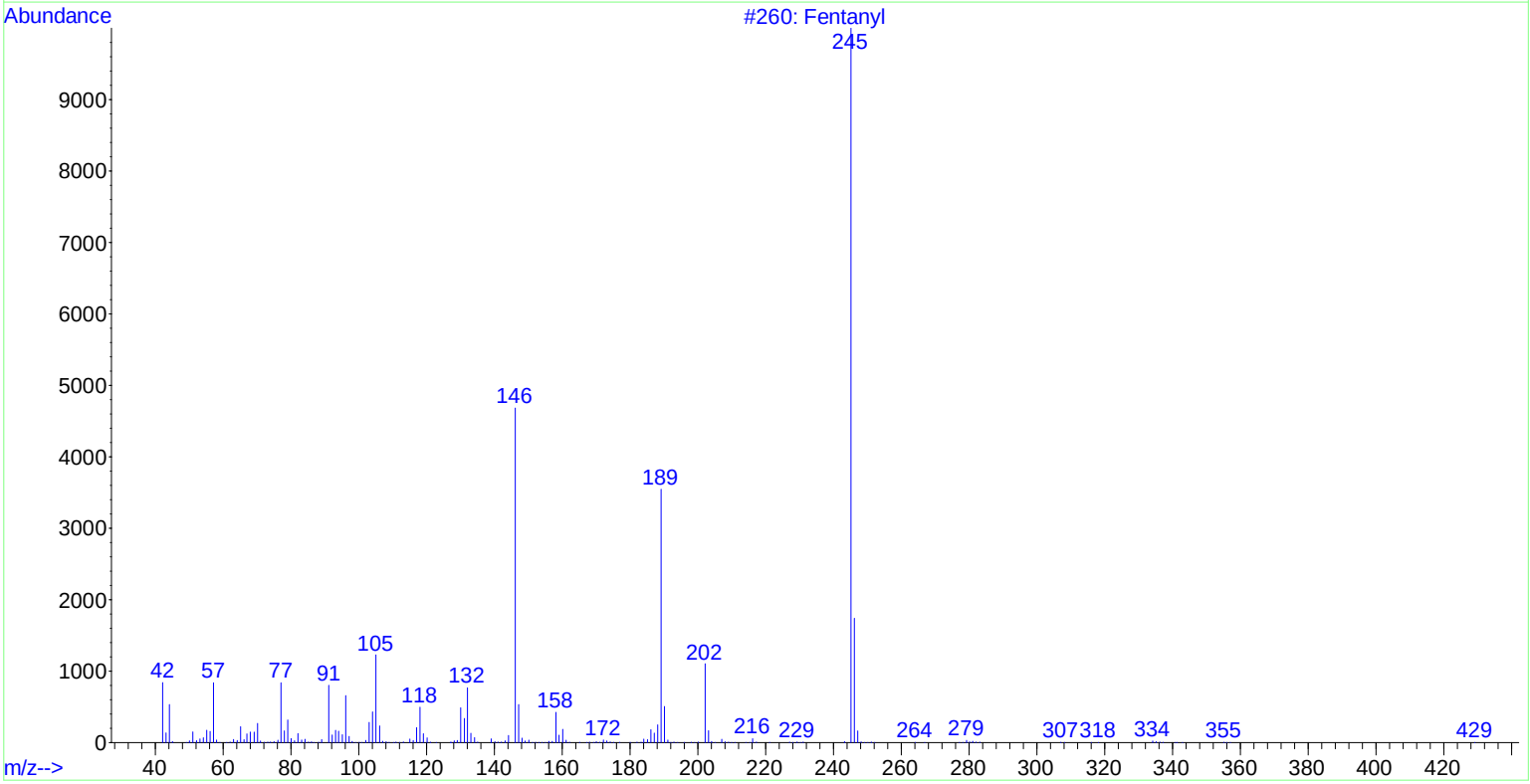
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... 2025\2nd qtr\060925\A001005.D
Operator : AGILENT SD GCMS #1
Instrument : SD GCMS 1
Acquired : 9 Jun 2025 9:59 using AcqMethod BCCL GENDRUG METHOD.M
Sample Name: CAYMAN GC/MS MIX 3 (R-24-060) 000002665
Misc Info : In ACN



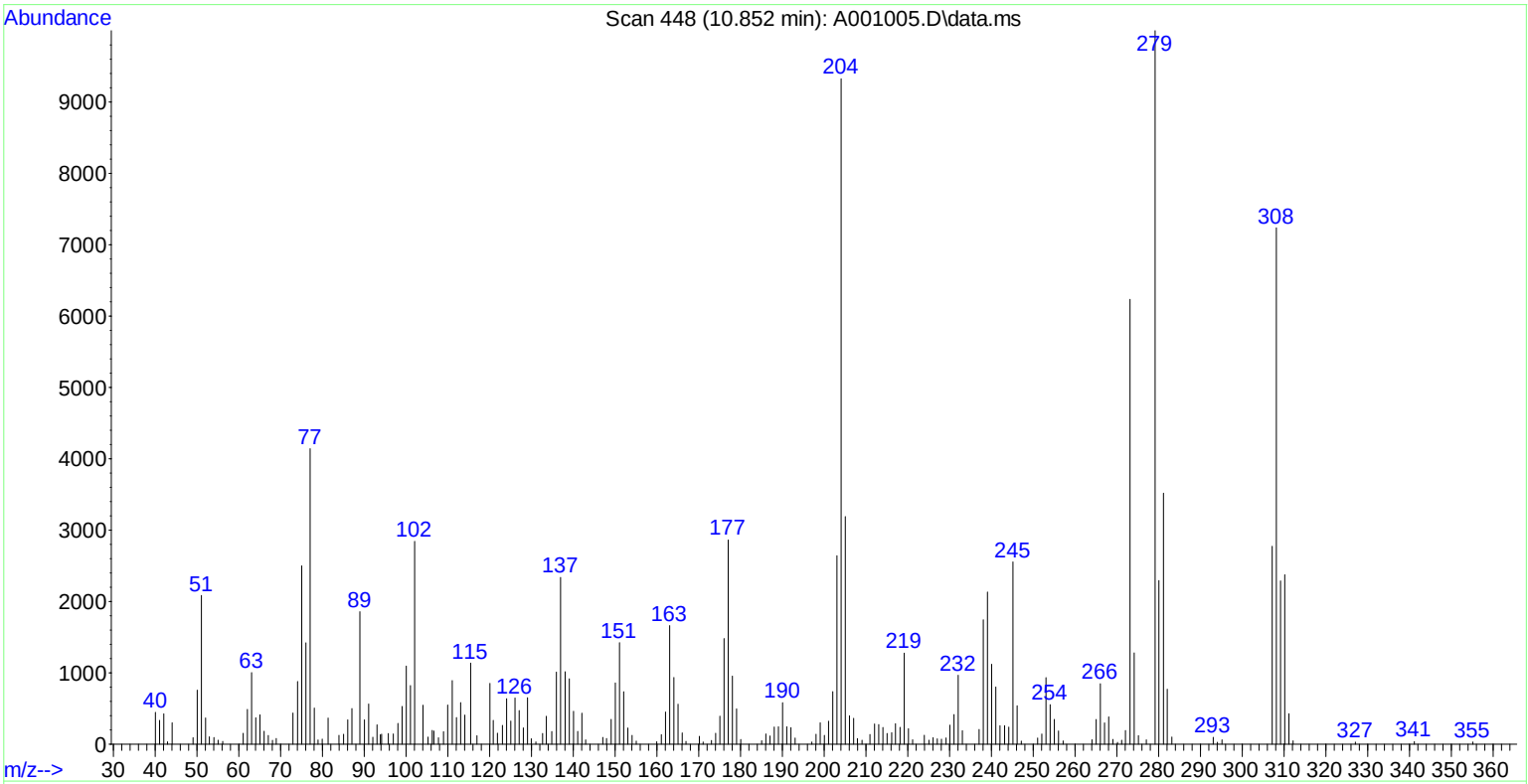


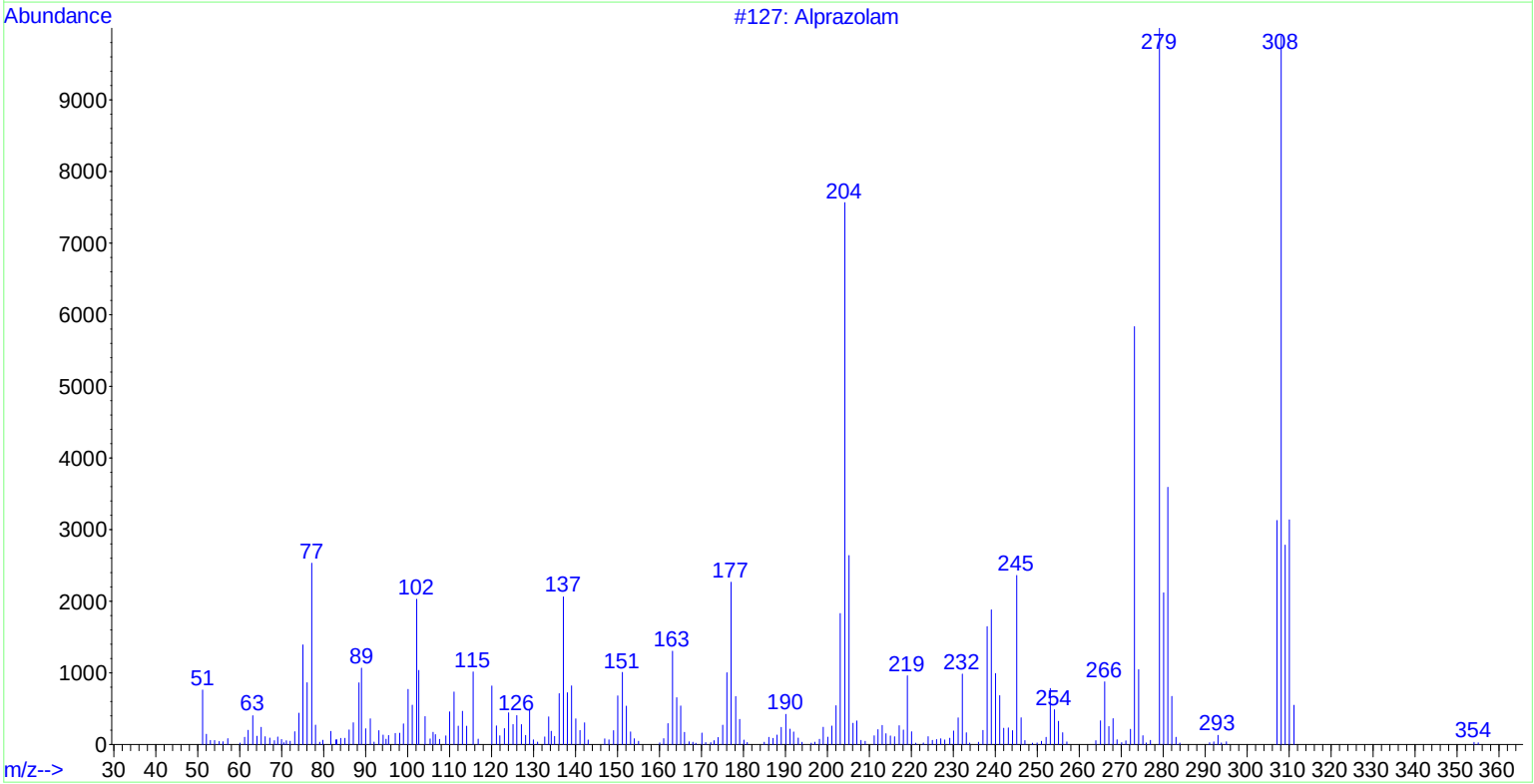
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... 2025\2nd qtr\060925\A001005.D
Operator : AGILENT SD GCMS #1
Instrument : SD GCMS 1
Acquired : 9 Jun 2025 9:59 using AcqMethod BCCL GENDRUG METHOD.M
Sample Name: CAYMAN GC/MS MIX 3 (R-24-060) 000002665
Misc Info : In ACN



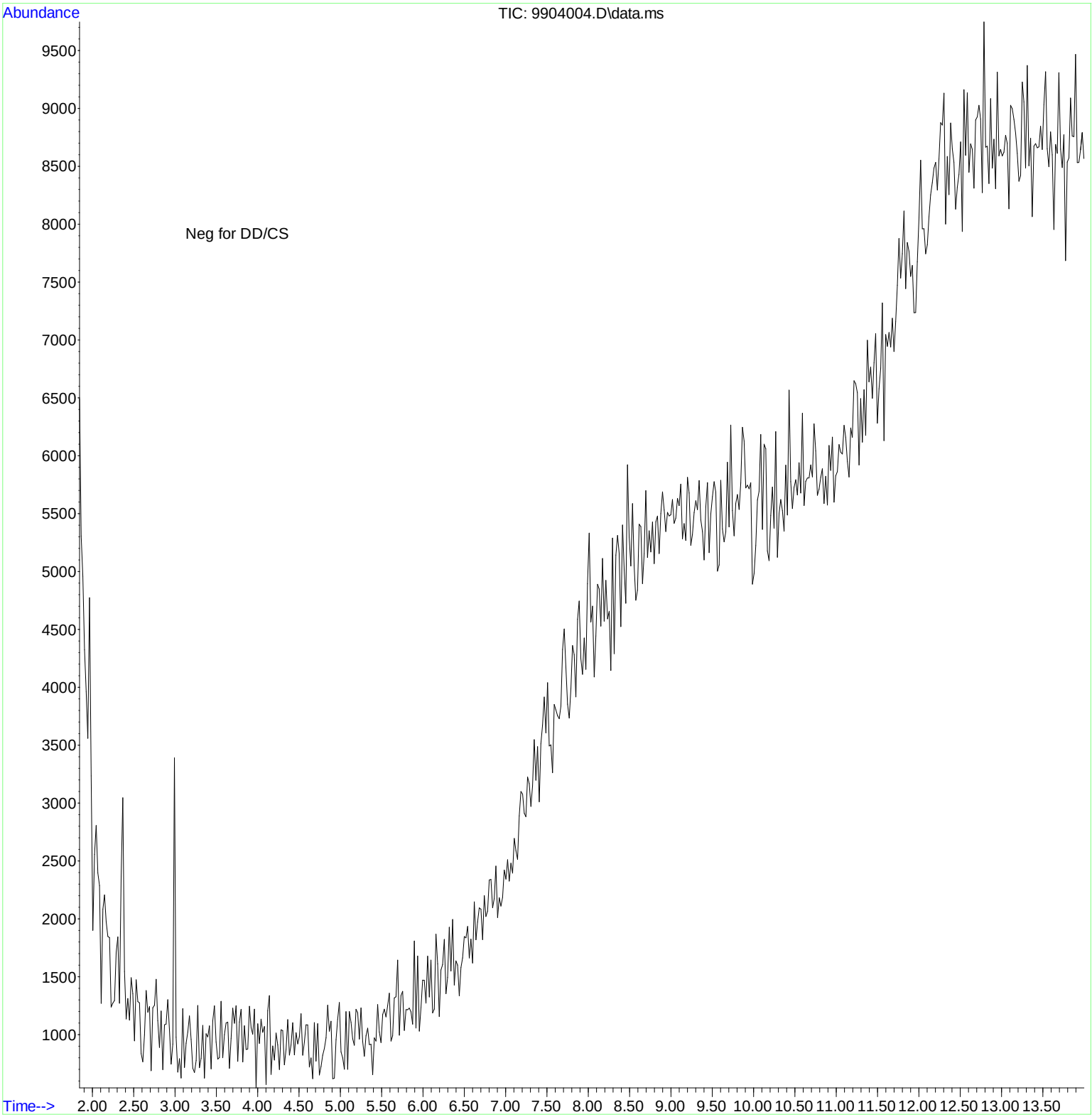


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Operator : AGILENT SD GCMS #1
Instrument : SD GCMS 1
Acquired : 9 Jun 2025 9:59 using AcqMethod BCCL GENDRUG METHOD.M
Sample Name: CAYMAN GC/MS MIX 3 (R-24-060) 000002665
Misc Info : In ACN

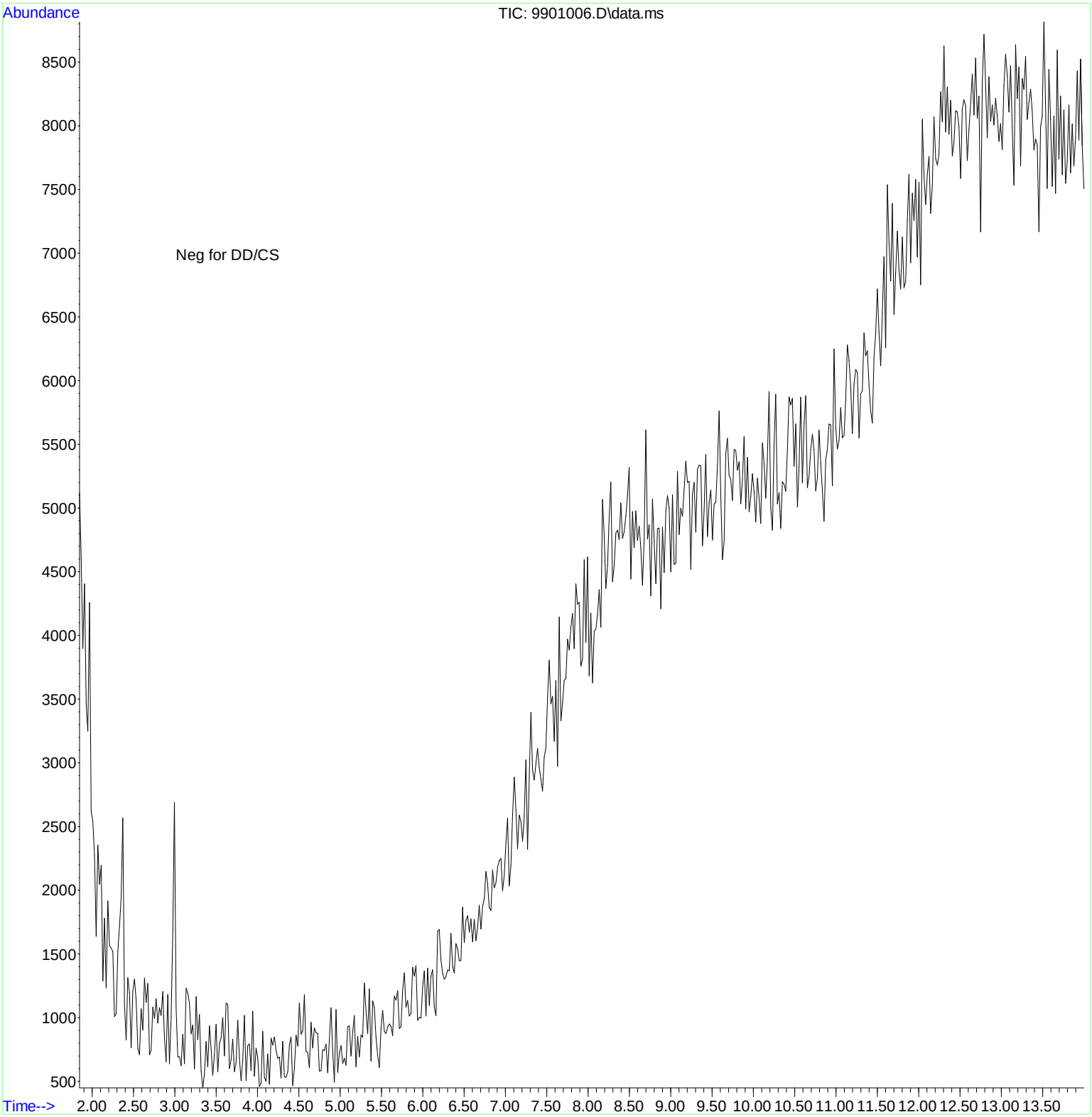




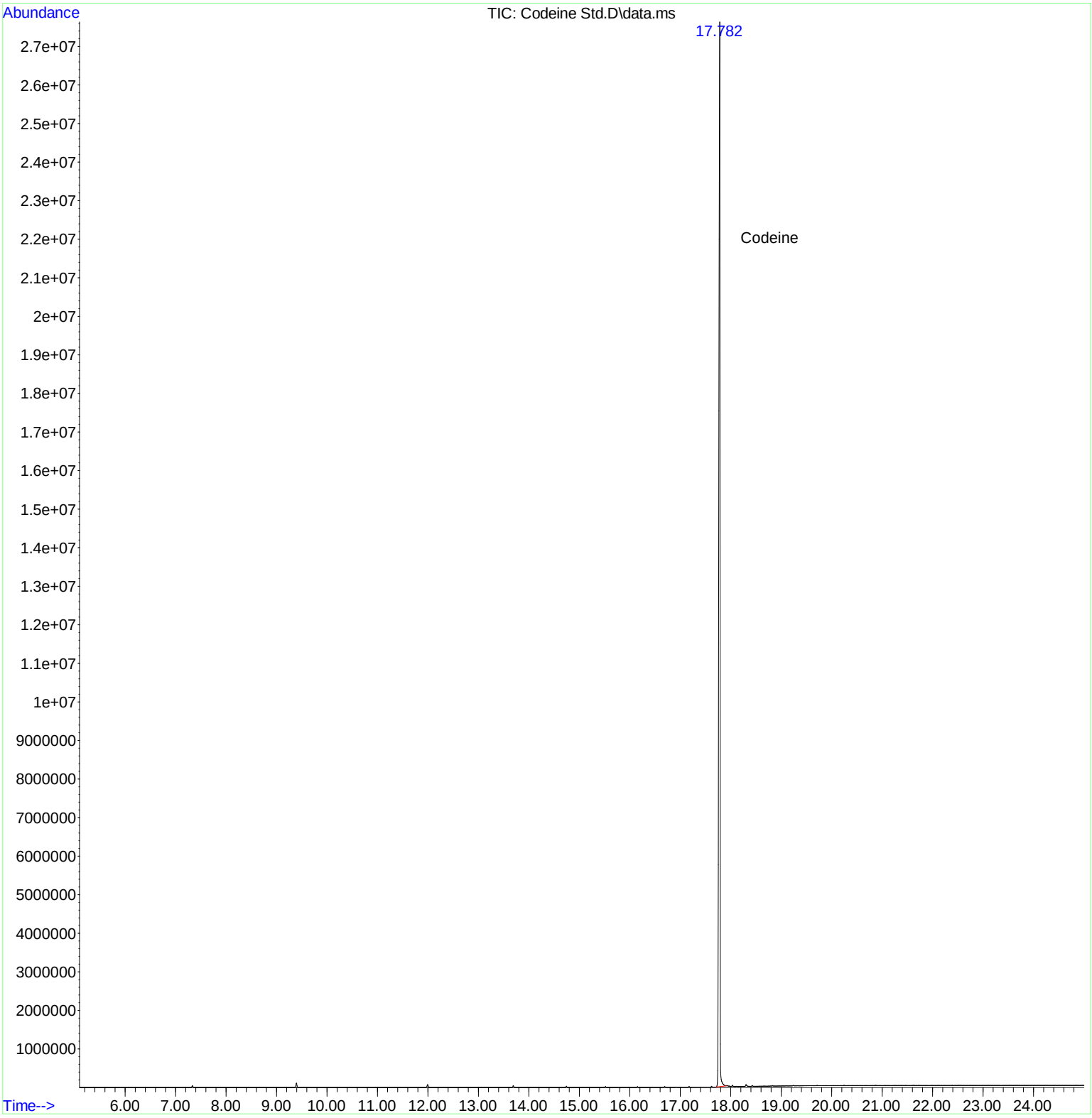
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... 2025\2nd qtr\060925\9904004.D
Operator : AGILENT SD GCMS #1
Instrument : SD GCMS 1
Acquired : 9 Jun 2025 9:41 using AcqMethod BCCL GENDRUG METHOD.M
Sample Name: BLANK PRIOR TO CAYMAN GC/MS 000002664
Misc Info : ACN (C-19-0068)



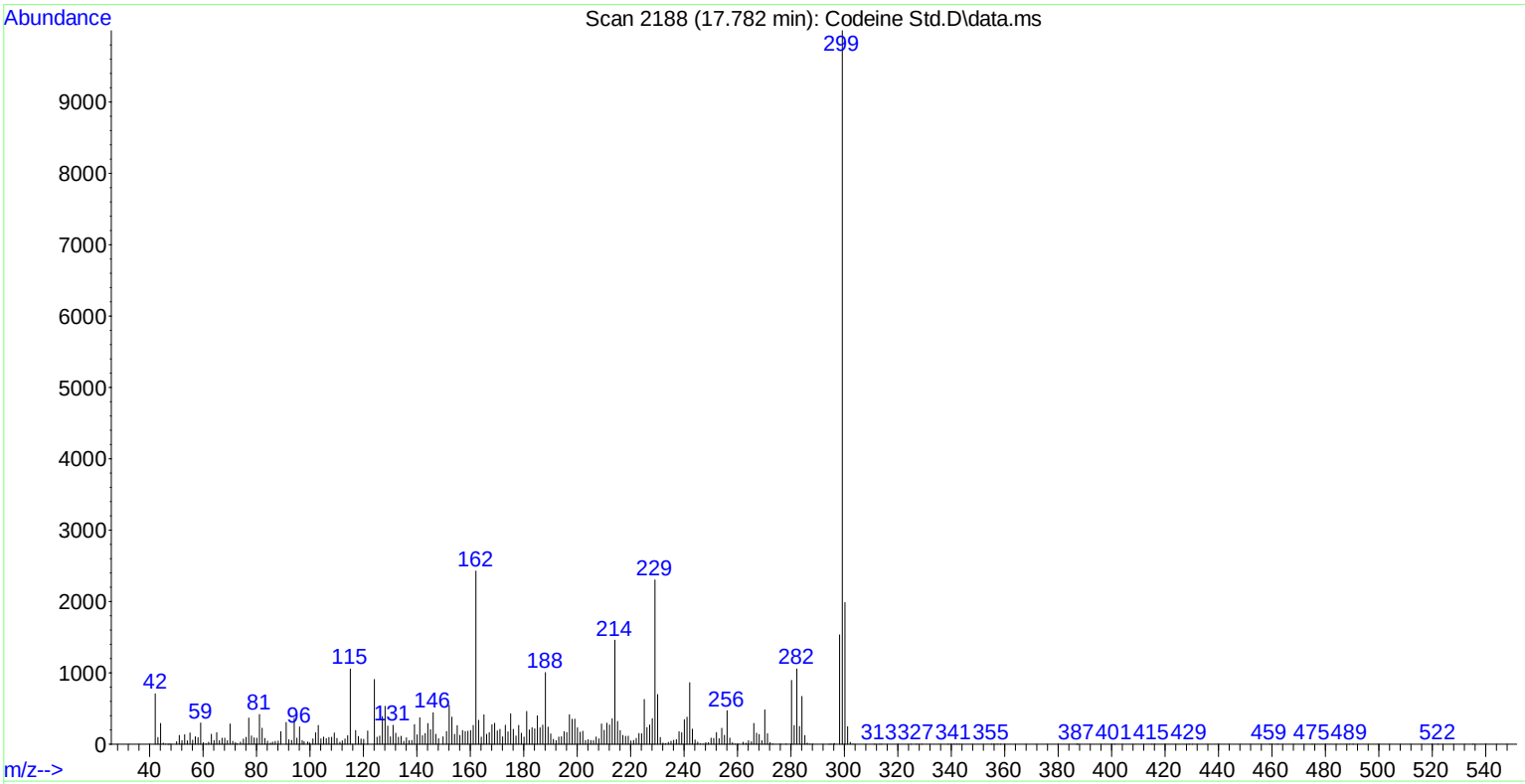
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... 2025\2nd qtr\060925\9901006.D
Operator : AGILENT SD GCMS #1
Instrument : SD GCMS 1
Acquired : 9 Jun 2025 10:16 using AcqMethod BCCL GENDRUG METHOD.M
Sample Name: BLANK - INSTRUMENT READY 000002664
Misc Info : ACN (C-19-0068)

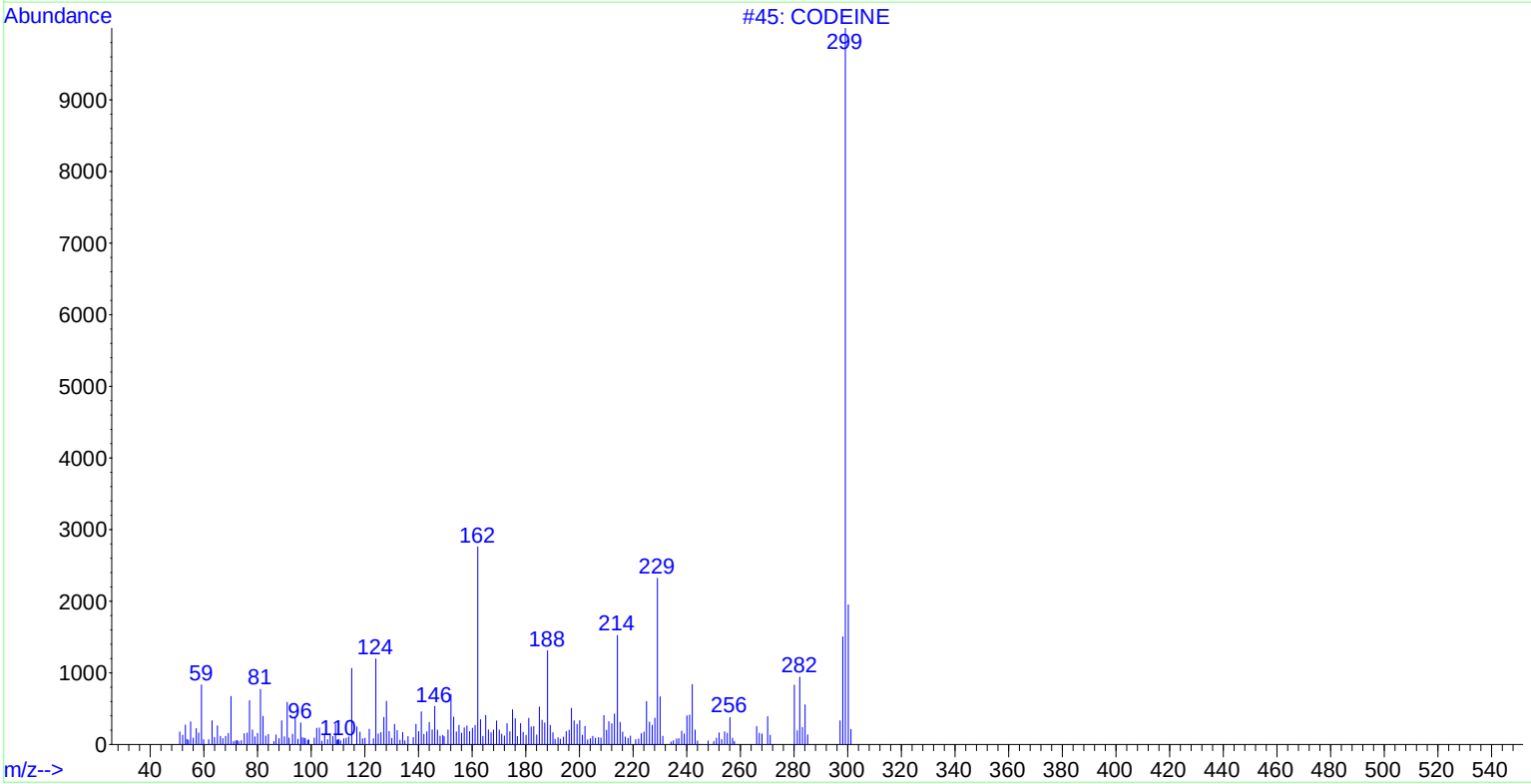


File :D:\GCMS1Data\2025.seq\2nd qtr\061125\Codeine Std.D
Operator : BCCL SD GCMS 1
Acquired : 11 Jun 2025 23:53 using AcqMethod DRUGTEST50_20X.M
Instrument : SD GCMS 1
Sample Name: Codeine (R-23-022) Std 000005945
Misc Info : Rt determination
Vial Number: 59

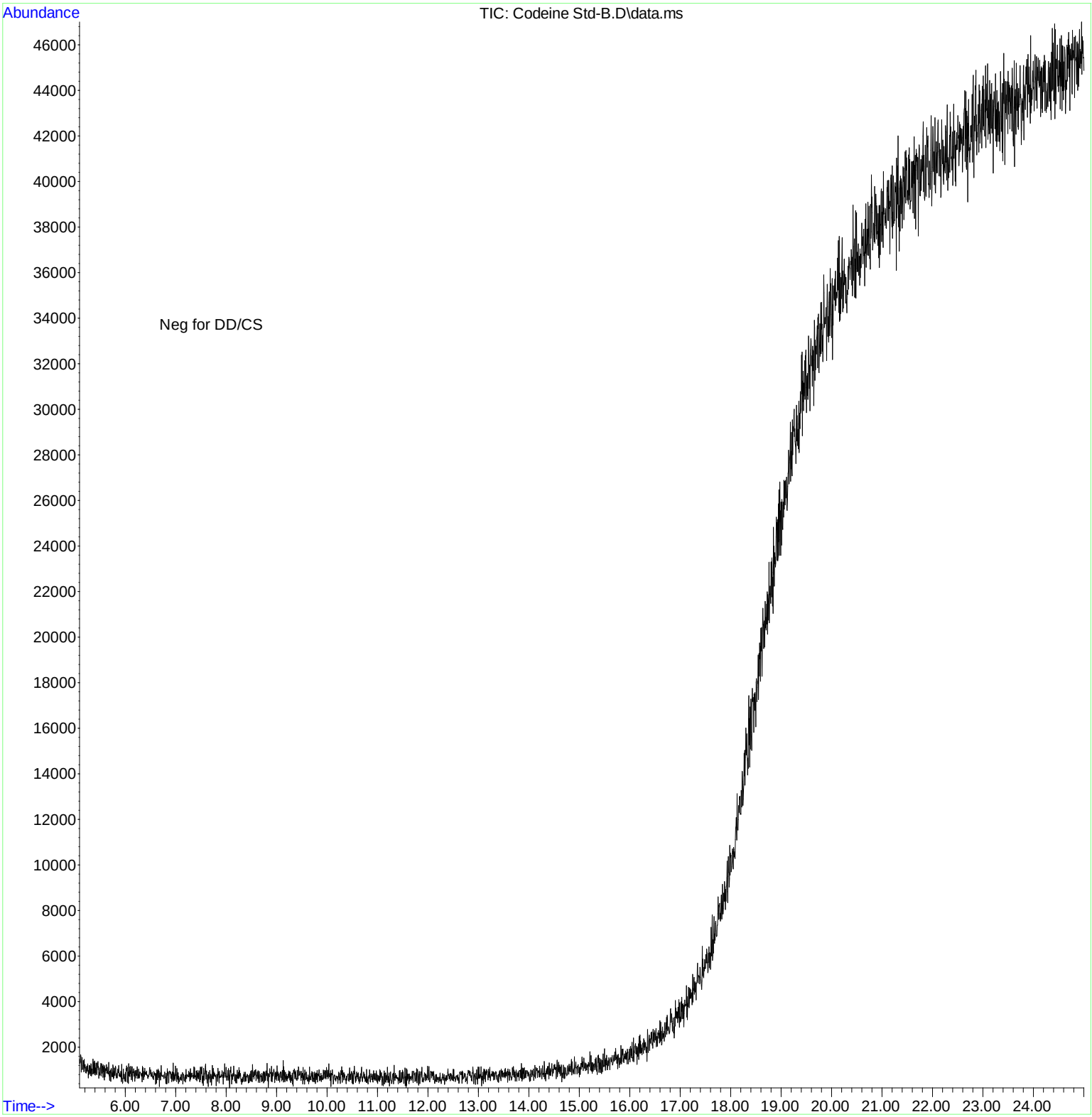


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Operator : BCCL SD GCMS 1
Acquired : 11 Jun 2025 23:53 using AcqMethod DRUGTEST50_20X.M
Instrument : SD GCMS 1
Sample Name: Codeine (R-23-022) Std 000005945
Misc Info : Rt determination
Vial Number: 59

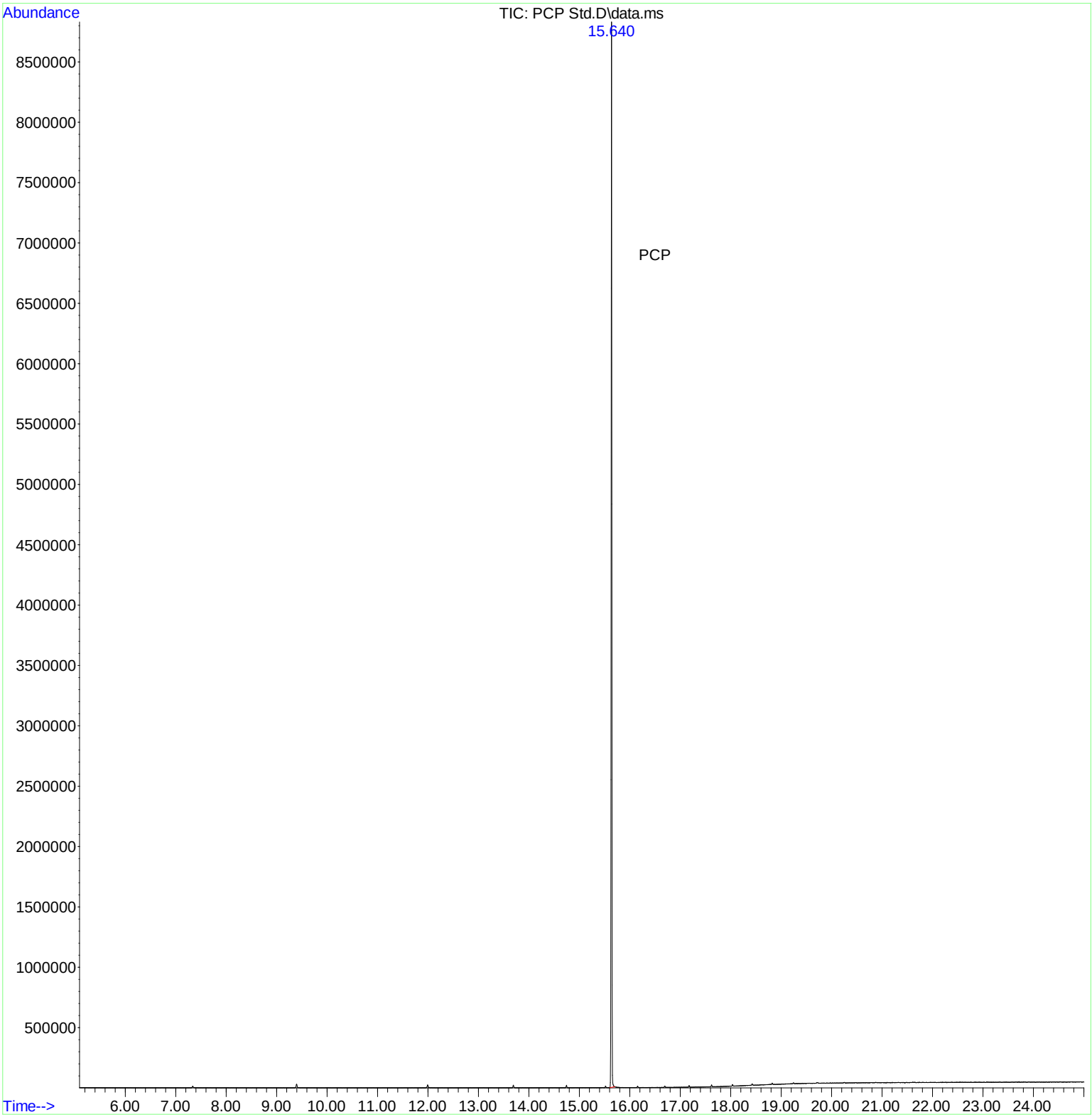




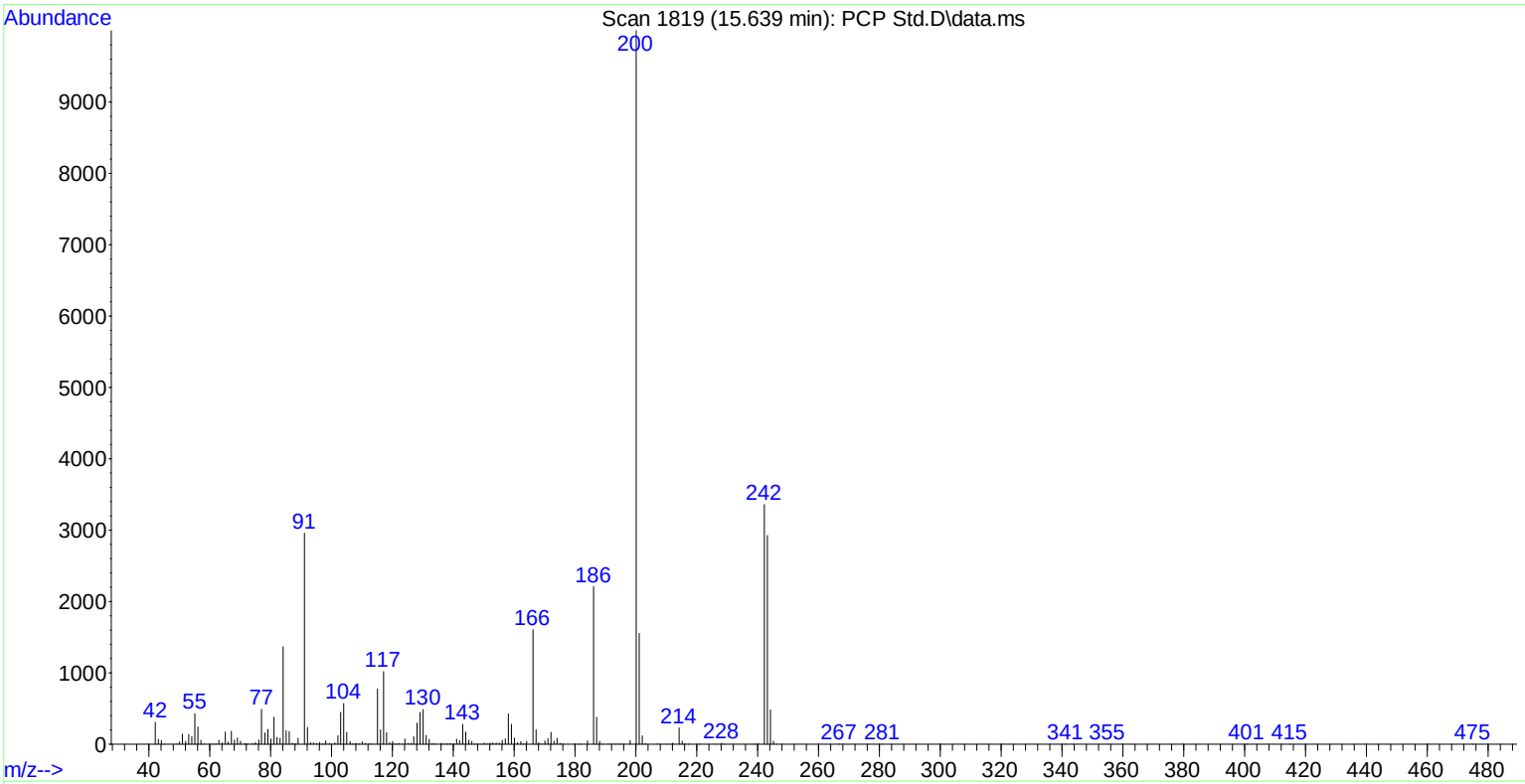
File :D:\GCMS1Data\2025.seq\2nd qtr\061125\Codeine Std-B.D
Operator : BCCL SD GCMS 1
Acquired : 11 Jun 2025 23:23 using AcqMethod DRUGTEST50_20X.M
Instrument : SD GCMS 1
Sample Name: blank prior to Codeine (R-23-022) Std 000002470
Misc Info : DCM (C-22-0015B)+MeOH (C-20-0050B)
Vial Number: 56

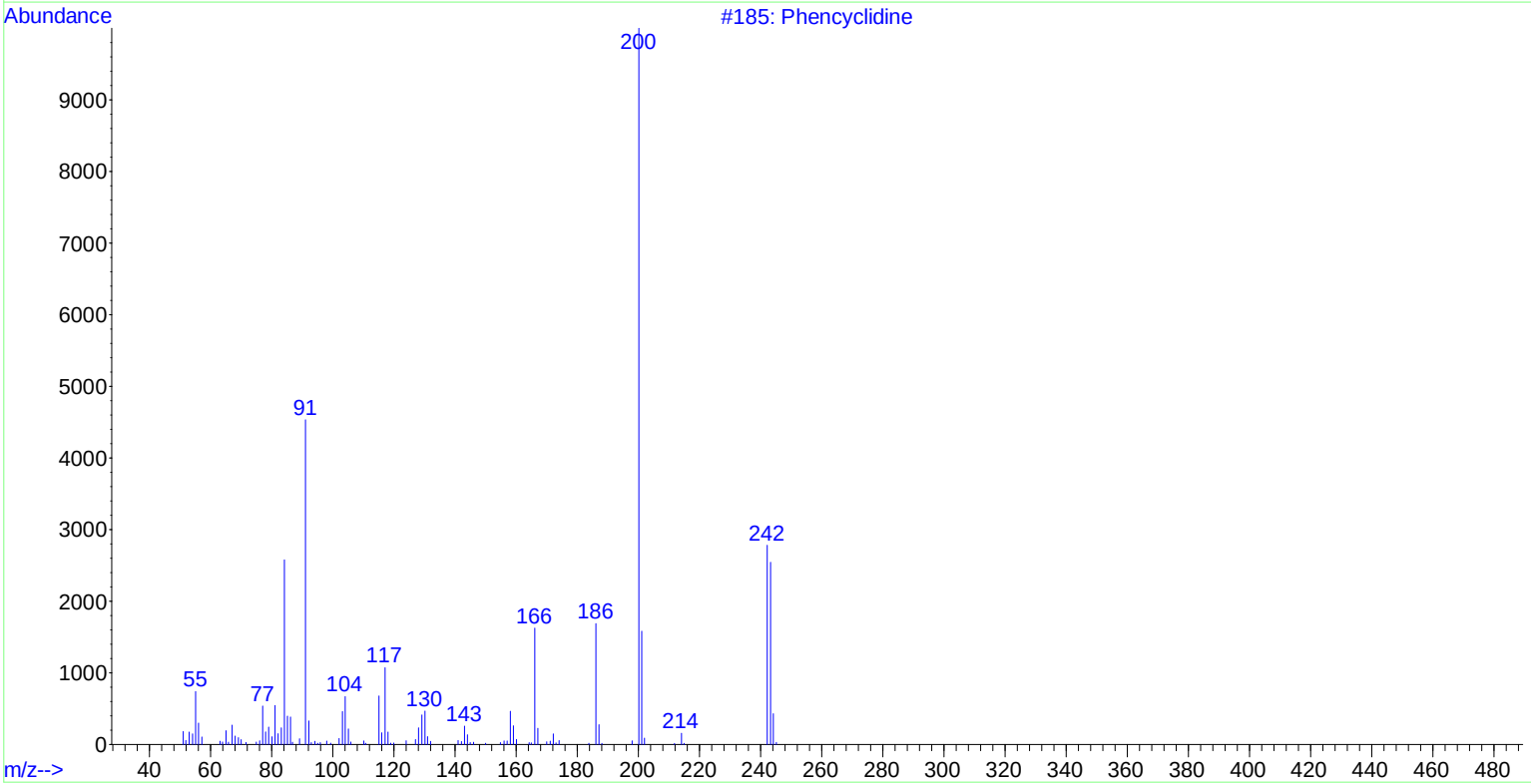


File :D:\GCMS1Data\2025.seq\2nd qtr\061125\PCP Std.D
Operator : BCCL SD GCMS 1
Acquired : 12 Jun 2025 00:52 using AcqMethod DRUGTEST50.M
Instrument : SD GCMS 1
Sample Name: PCP (R-24-017) Std 000002991
Misc Info : Rt determination
Vial Number: 60

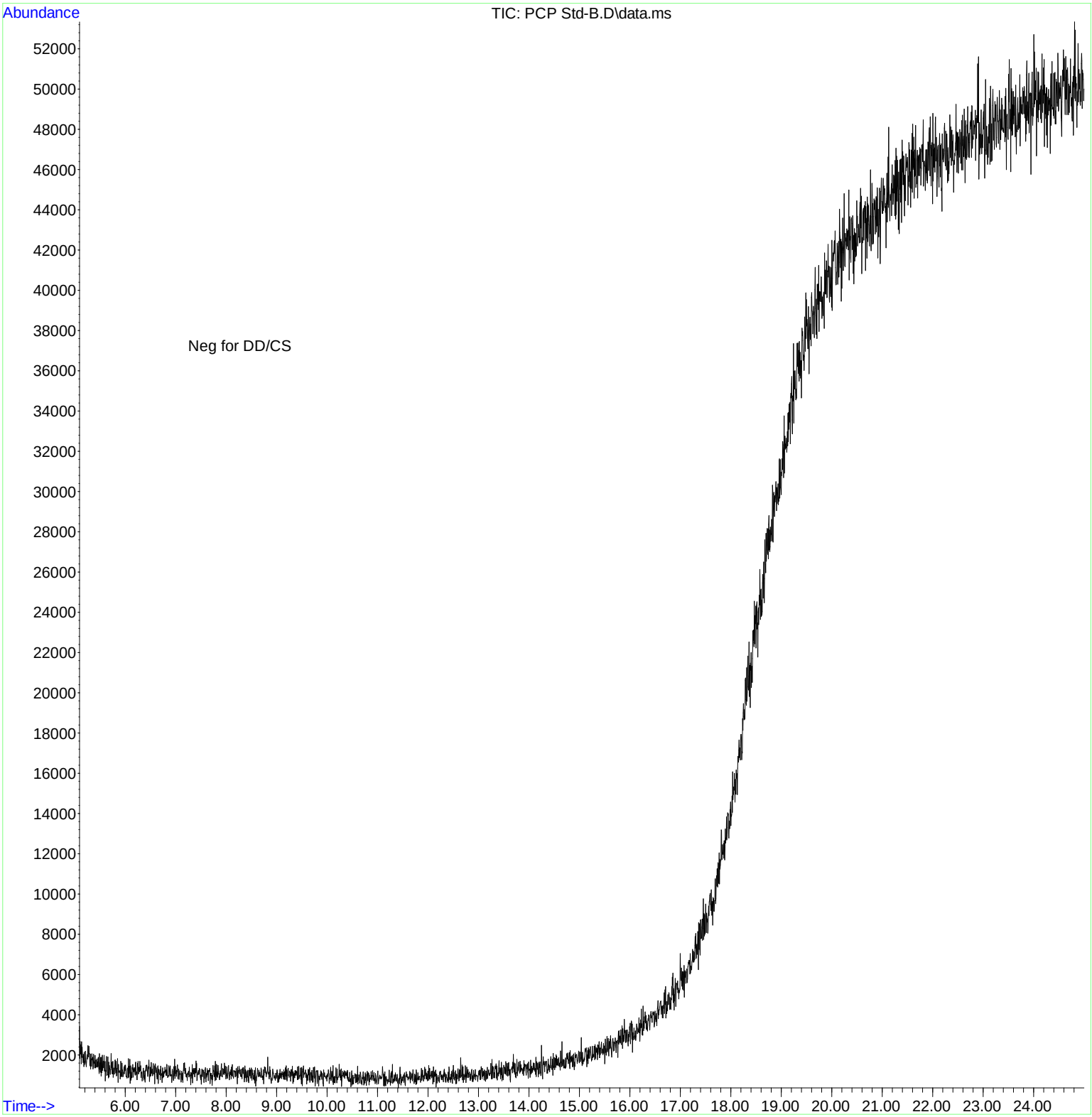


File :D:\GCMS1Data\2025.seq\2nd qtr\061125\PCP Std.D
Operator : BCCL SD GCMS 1
Acquired : 12 Jun 2025 00:52 using AcqMethod DRUGTEST50.M
Instrument : SD GCMS 1
Sample Name: PCP (R-24-017) Std 000002991
Misc Info : Rt determination
Vial Number: 60





File :D:\GCMS1Data\2025.seq\2nd qtr\061125\PCP Std-B.D
Operator : BCCL SD GCMS 1
Acquired : 12 Jun 2025 00:23 using AcqMethod DRUGTEST50.M
Instrument : SD GCMS 1
Sample Name: blank prior to PCP (R-24-017) Std 000002470
Misc Info : DCM (C-22-0015B)+MeOH (C-20-0050B)
Vial Number: 56

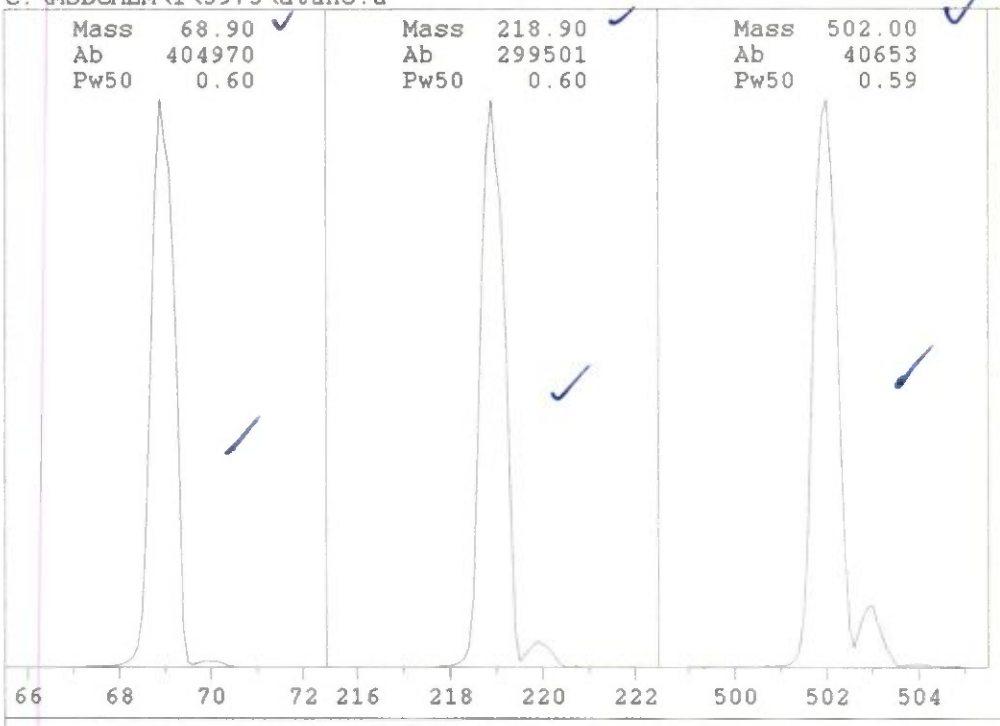


5973 Autotune

Mon Jun 16 09:04:00 2025
C:\MSDCHEM\1\5973\atune.u

Instrument: SD GCMS 1

DS
OK

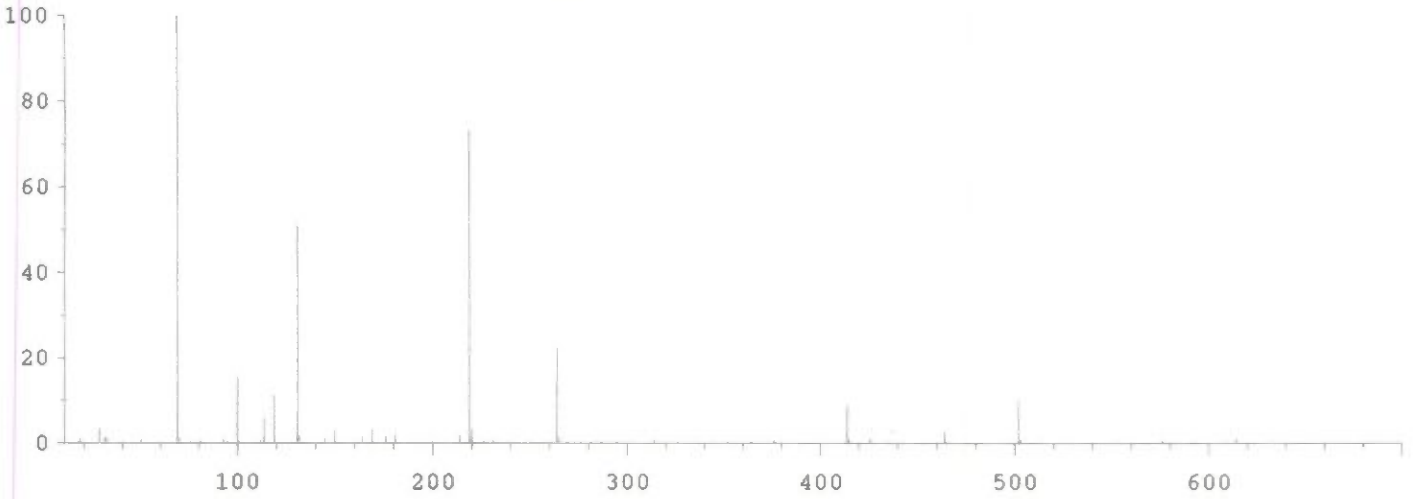


Ion Pol	POS	MassGain	364
		MassOffs	-12
Emission	34.6	AmuGain	2446
EIEnrgy	69.9	AmuOffs	123
Filament	1	Wid219	-0.024
		DC Pol	POS
Repeller	29.12		
IonFcus	90.2	HEDEnab	ON
EntLens	16.5	EMVolts	1576
EntOffs	19.07		
		Samples	8
PFTBA	OPEN	Averages	3
		Stepsize	0.10

Zones:

MS Source	230	TurboSpd	100
MS Quad	150		

Scan: 10.00 - 700.00 Samples: 8 Thresh: 100 Step: 0.10
125 peaks Base: 69.00 Abundance: 356032



Mass	Abund	Rel Abund	Iso Mass	Iso Abund	Iso Ratio
69.00	356032	100.00	70.00	3960	1.11
218.90	260864	73.27	220.00	11482	4.40
502.00	36496	10.25	503.00	3133	8.58

Air/Water Check: H2O~1.06% N2~3.37% O2~1.06% CO2~0.04% N2/H2O~316.64%

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

Ramp Criteria:
Ion Focus Maximum 90 volts using ion 502: EM Gain 106301
Repeller Maximum 35 volts using ion 219:

MassGain Values @Samples: 369@3 365@2 364@1 364@0 364@FS

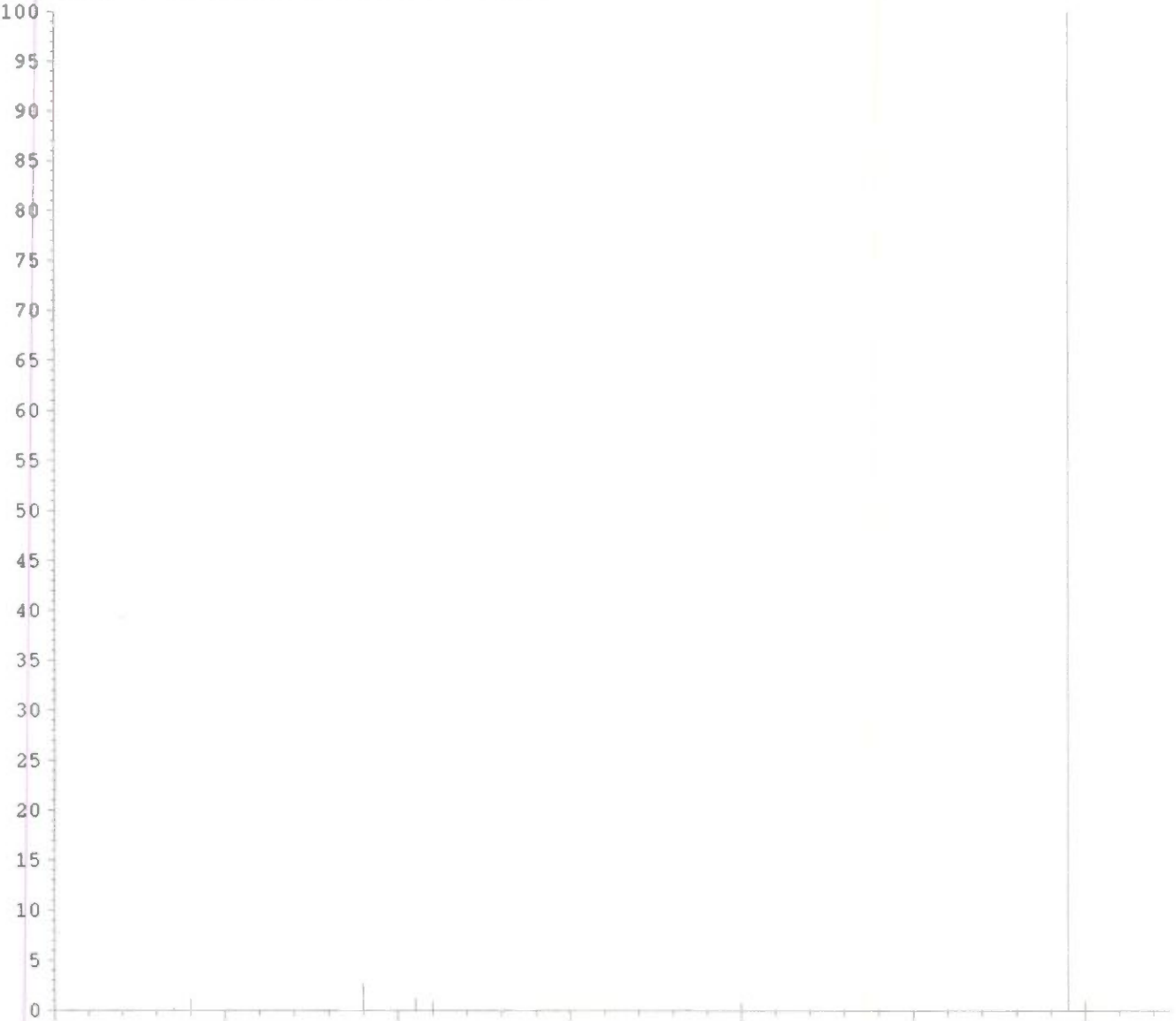
TARGET MASS:	50	69	131	219	414	502	800
Amu Offset:	123.0	123.0	123.0	123.0	123.0	123.0	123.0
Entrance Lens Offset:	19.1	19.1	19.1	19.1	19.1	19.1	19.1

35
OK

597x Air and Water Check

Instrument: SD GCMS 1
Mon Jun 16 08:55:26 2025 C:\MSDCHEM\1\5973\

Scan: 10.00 - 75.00 Samples: 8 Thresh: 0 Step: 0.10
68 peaks Base: 69.00 Abundance: 541440



Mass	Abund	Rel Abund	Iso Mass	Iso Abund	Iso Ratio
69.00	541440	100.00	70.00	5538	1.02
18.00	6903	1.27	19.00	55	0.80
28.00	14663	2.71	29.10	151	1.03

Current Params used: atune.u

Relative abundances:

18/69 =	1.27	Water%
28/69 =	2.71	Nitrogen%
32/69 =	0.98	Oxygen%
44/69 =	0.21	Carbon Dioxide%
28/18 =	212.41	Nitrogen/Water%

System Verification - Tune (Detector Optimization) Portion

DS

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	218.92	Ok
Position of mass 502	502.00	Ok
Position of isotope mass 70	69.99	Ok
Position of isotope mass 220	219.92	Ok
Position of isotope mass 503	503.01	Ok
Ratio of mass 70 to mass 69(0.5 - 1.6%)	1.11	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%)	10.05	Ok
Ratio of 219 to 69 should be > 40% and is	73.68	Ok
Ratio of 502 to 69 should be > 2.4% and is	10.50	Ok
Mass 69 Precursor (<= 3%)	0.22	Ok
Mass 219 Precursor (<= 6%)	0.42	Ok
Mass 502 Precursor (<= 12%)	0.64	Ok
Testing for a leak in the system		
Ratio of 18 to 69 (<20%)	1.10	Ok
Ratio of 28 to 69 (<10%)	3.80	Ok
Electron Multiplier Voltage	1576	Ok

Tune portion of System Verification passed.

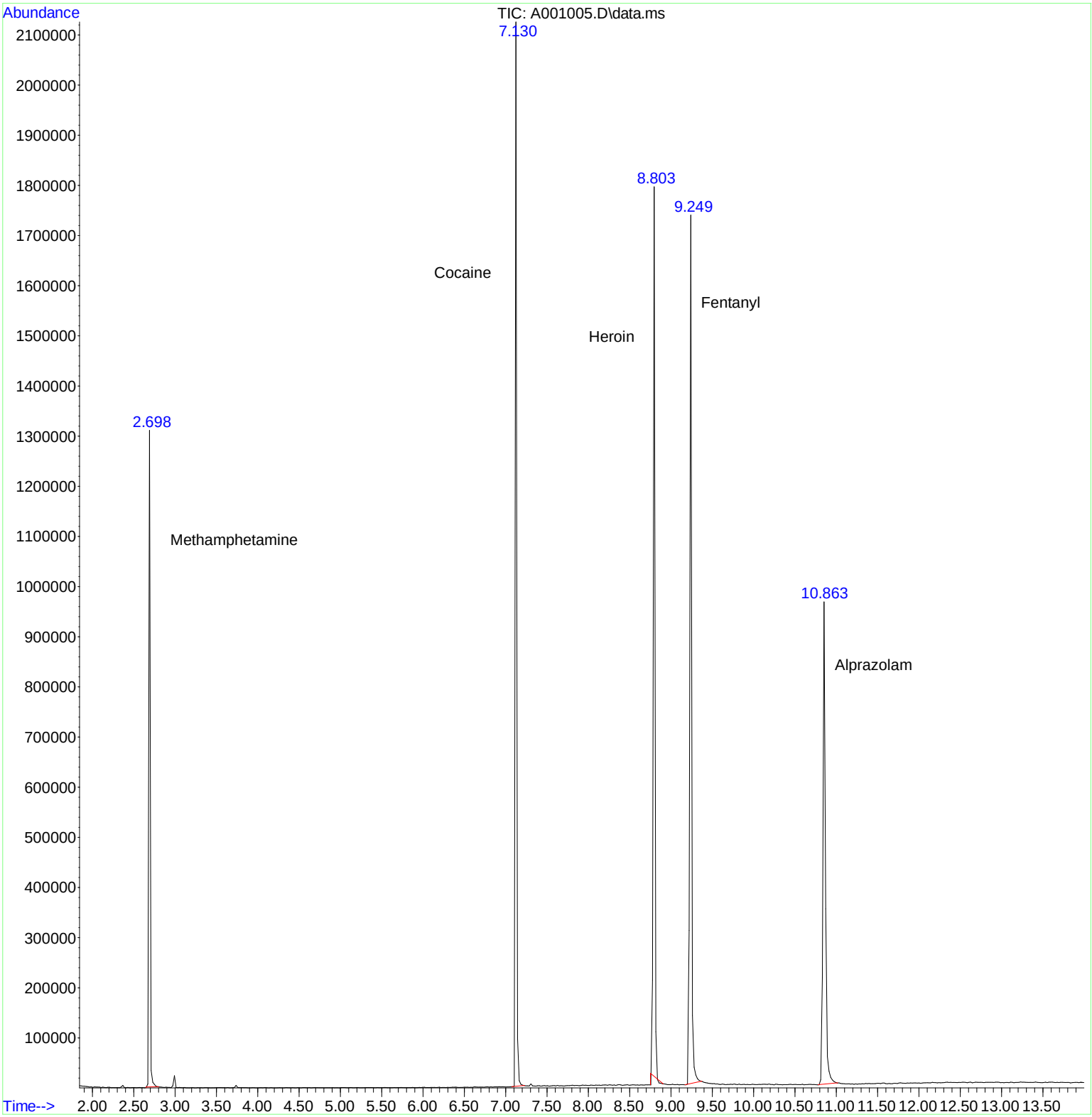
BCCL GC/MS #1
Retention Times for the Week of:

06/16/2025 - 06/22/2025

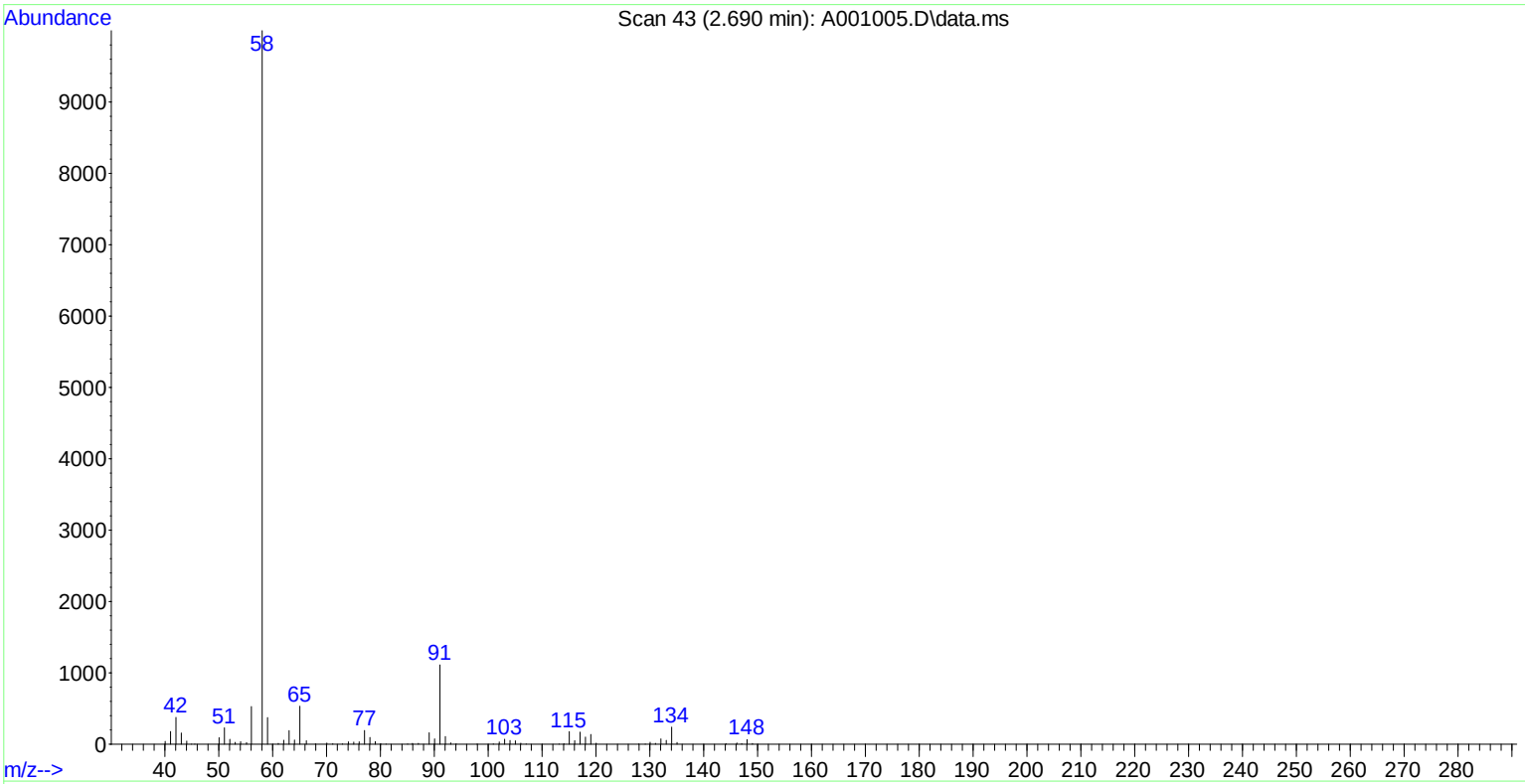
[x] **Tune: 06/16/2025 - Autotune KB**

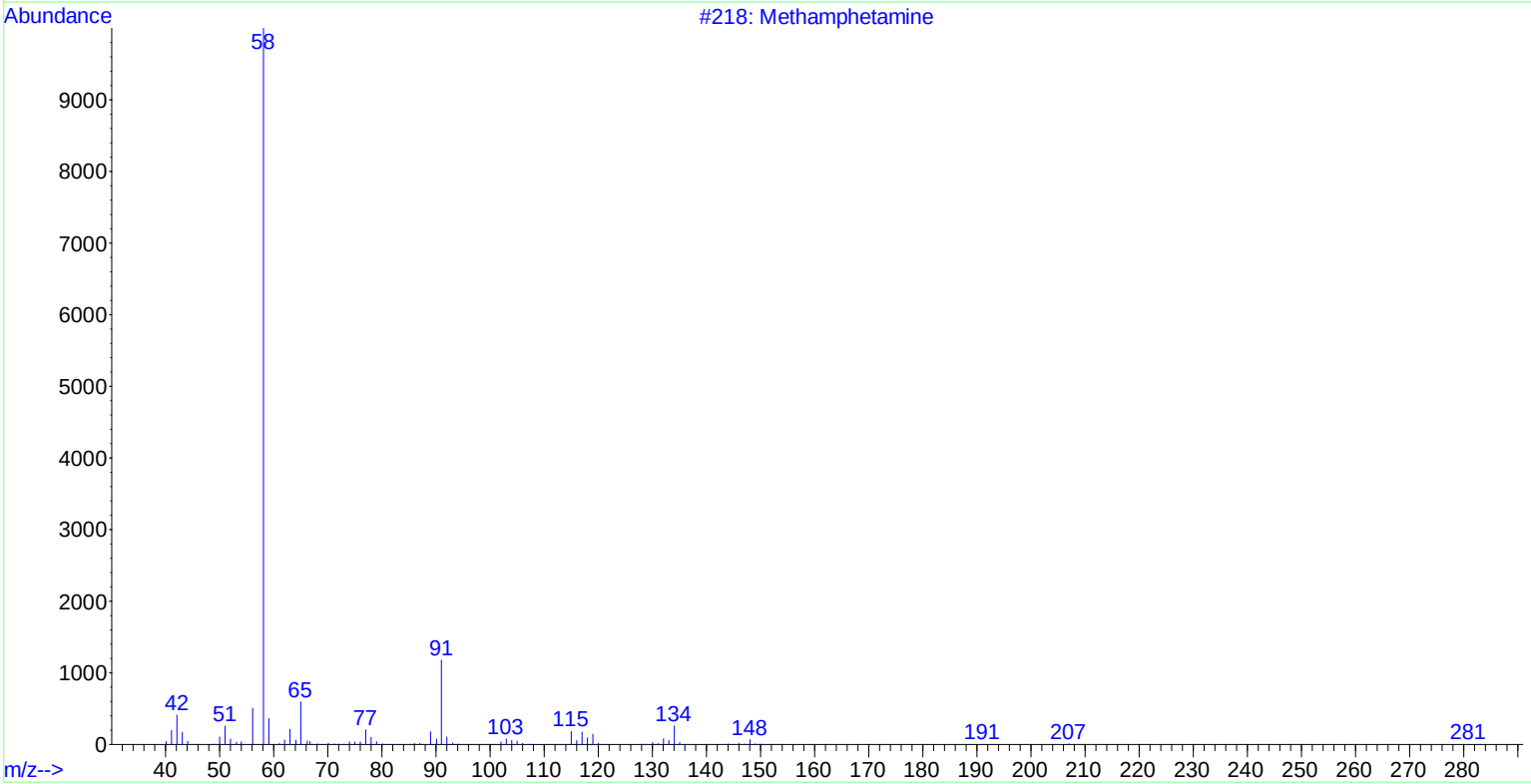
Standard	Standard #	Method	Retention Time	1% Window	
Methamphetamine	R-24-060	BCCL GenDrug	2.698	2.671	2.724
Cocaine	R-24-060	BCCL GenDrug	7.130	7.058	7.201
Heroin	R-24-060	BCCL GenDrug	8.803	8.714	8.891
Fentanyl	R-24-060	BCCL GenDrug	9.249	9.156	9.341
Alprazolam	R-24-060	BCCL GenDrug	10.863	10.754	10.971

File :D:\GCMS1Data\Stds and Chemical Verification\Weekly Check Mix
... 2025\061625\A001005.D
Operator : AGILENT SD GCMS #1
Instrument : SD GCMS 1
Acquired : 16 Jun 2025 10:11 using AcqMethod BCCL GENDRUG METHOD.M
Sample Name: CAYMAN GC/MS MIX 3 (R-24-060) 000002665
Misc Info : In ACN

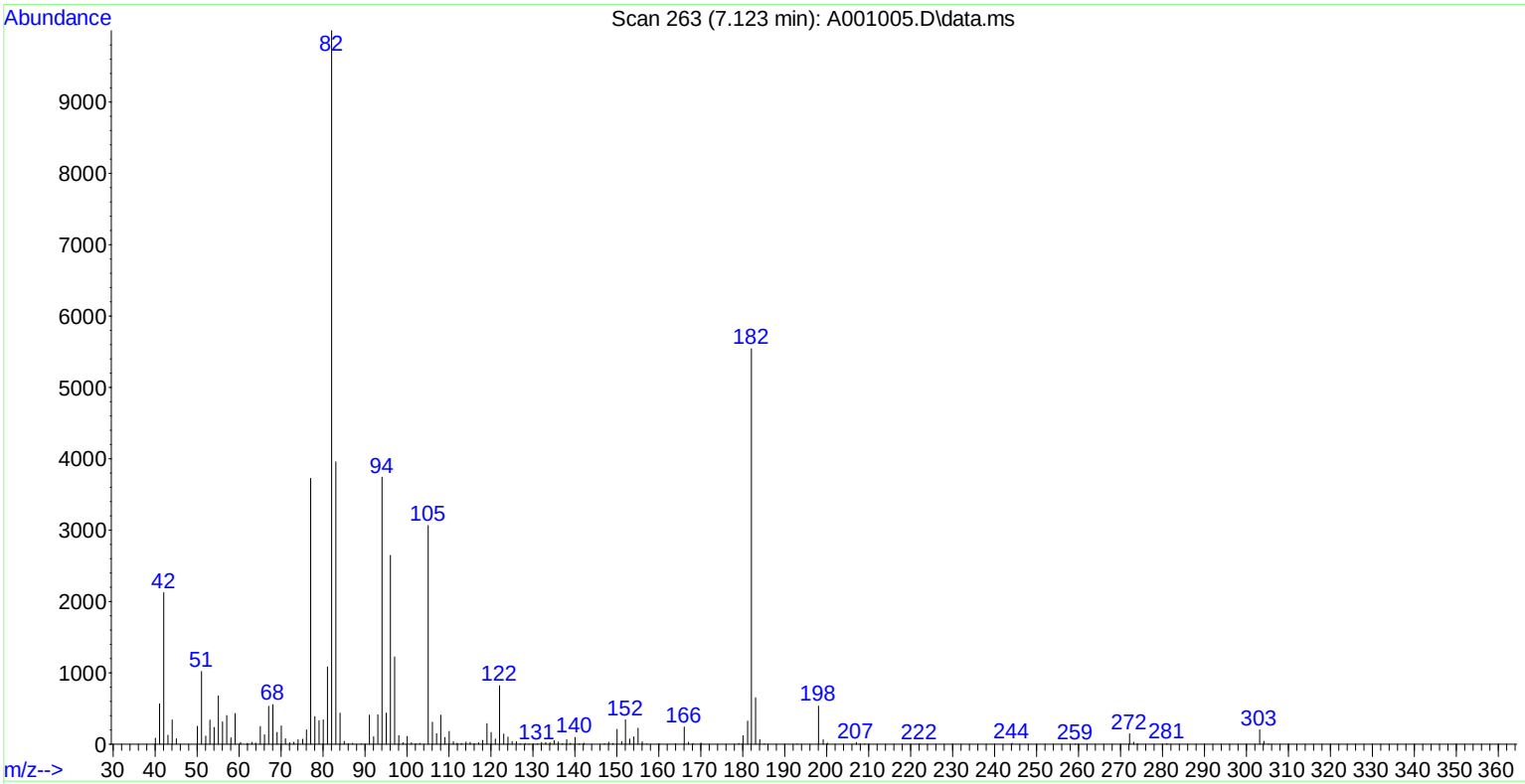


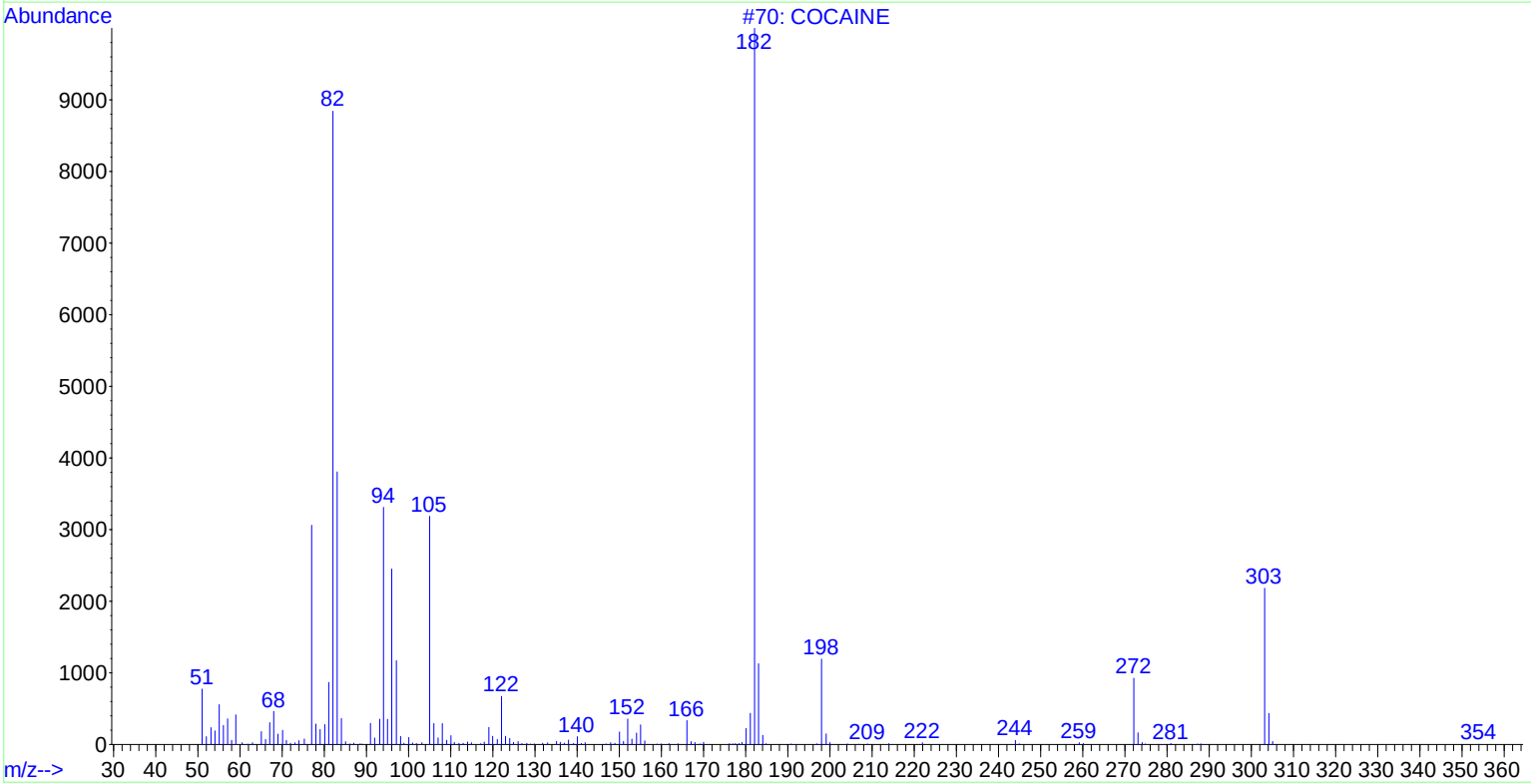
File :D:\GCMS1Data\Stds and Chemical Verification\Weekly Check Mix
... 2025\061625\A001005.D
Operator : AGILENT SD GCMS #1
Instrument : SD GCMS 1
Acquired : 16 Jun 2025 10:11 using AcqMethod BCCL GENDRUG METHOD.M
Sample Name: CAYMAN GC/MS MIX 3 (R-24-060) 000002665
Misc Info : In ACN



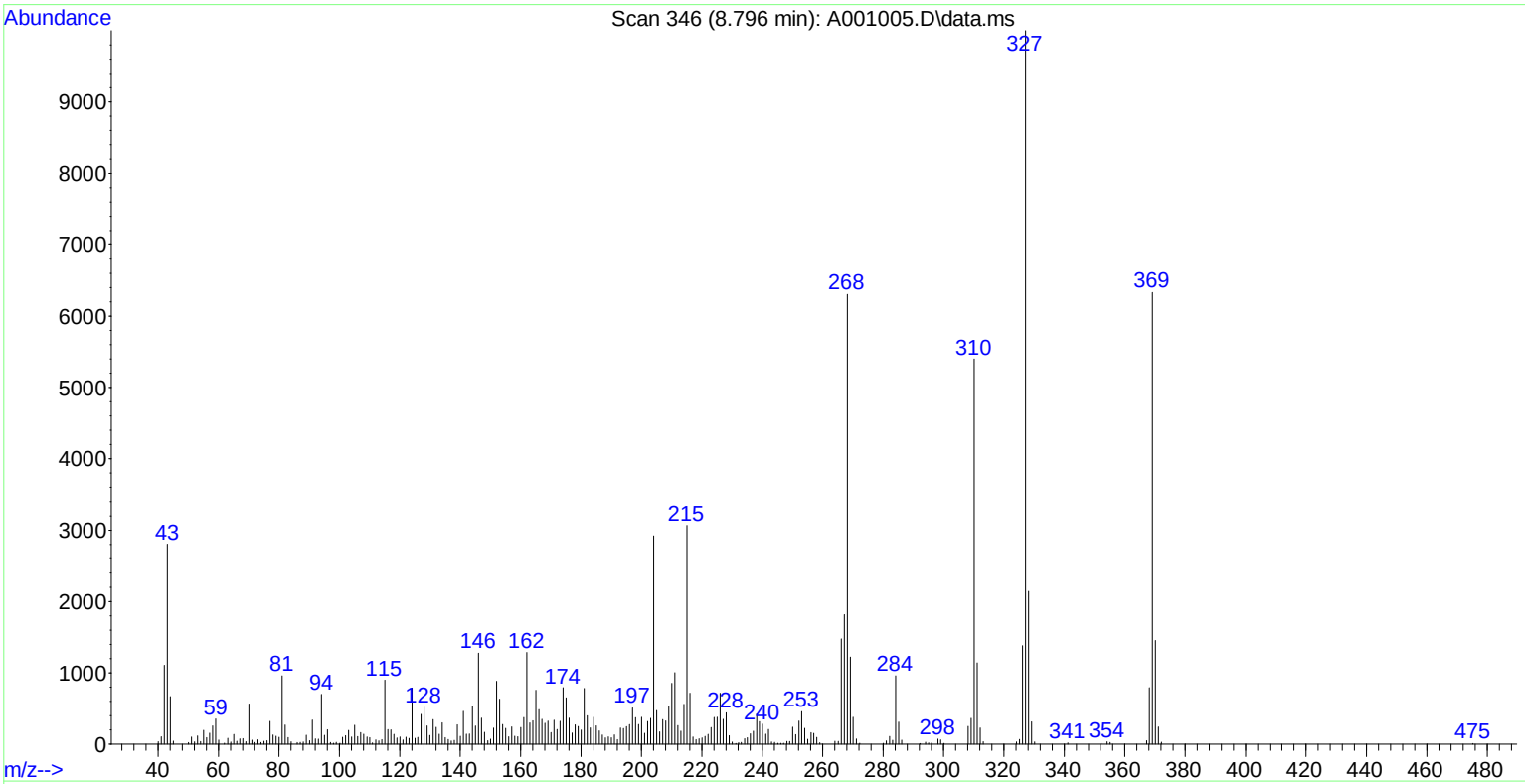


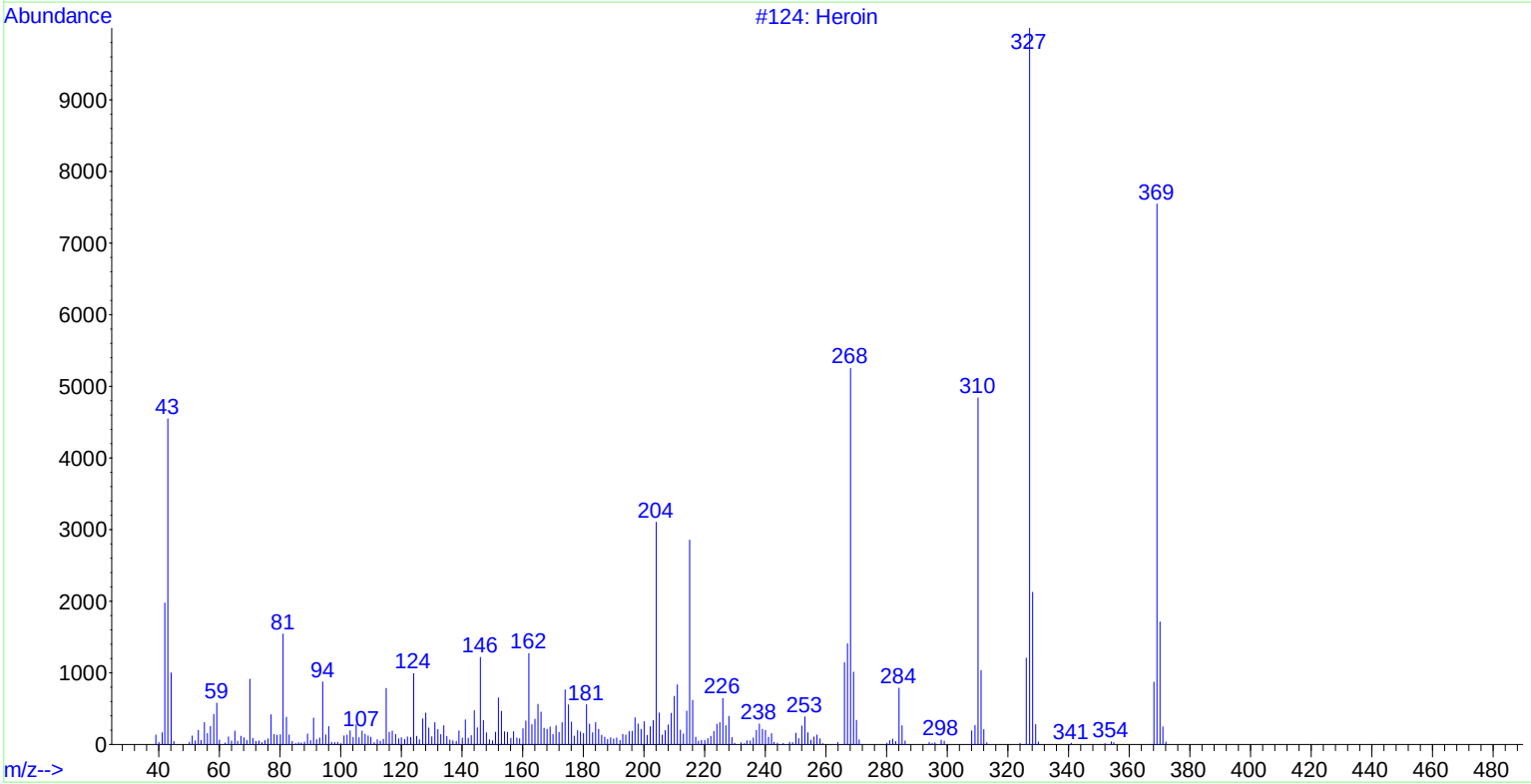
File :D:\GCMS1Data\Stds and Chemical Verification\Weekly Check Mix
... 2025\061625\A001005.D
Operator : AGILENT SD GCMS #1
Instrument : SD GCMS 1
Acquired : 16 Jun 2025 10:11 using AcqMethod BCCL GENDRUG METHOD.M
Sample Name: CAYMAN GC/MS MIX 3 (R-24-060) 000002665
Misc Info : In ACN



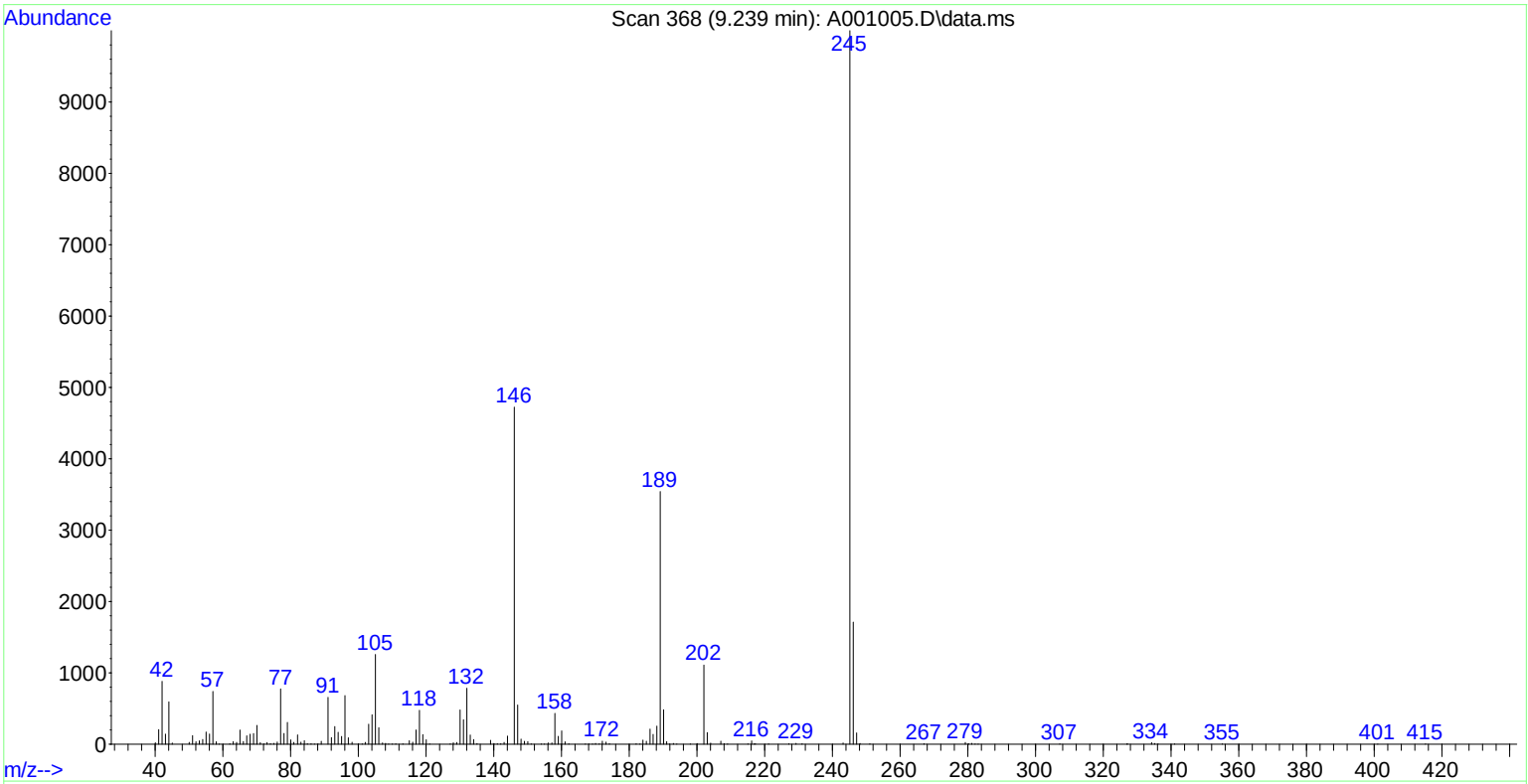


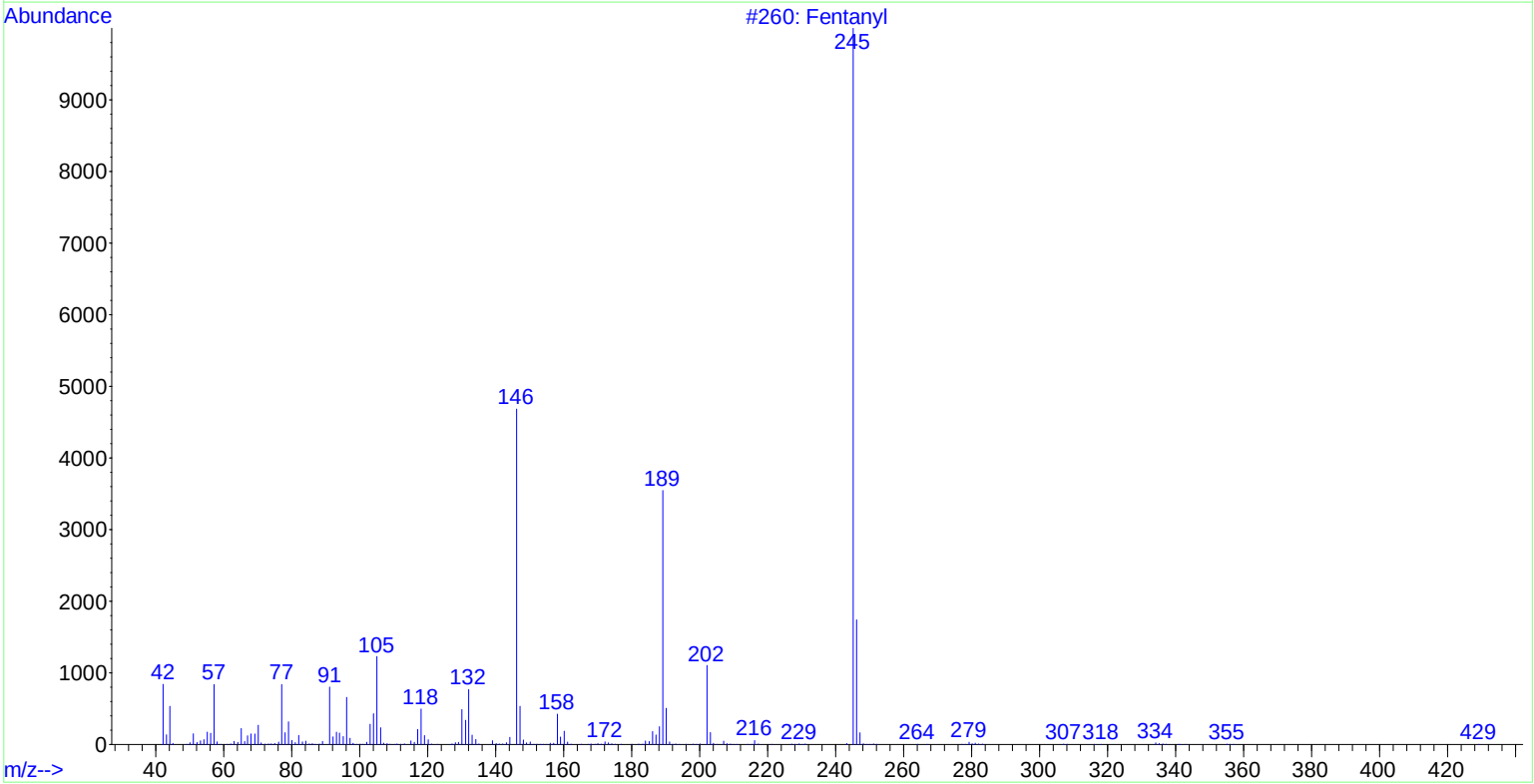
File :D:\GCMS1Data\Stds and Chemical Verification\Weekly Check Mix
... 2025\061625\A001005.D
Operator : AGILENT SD GCMS #1
Instrument : SD GCMS 1
Acquired : 16 Jun 2025 10:11 using AcqMethod BCCL GENDRUG METHOD.M
Sample Name: CAYMAN GC/MS MIX 3 (R-24-060) 000002665
Misc Info : In ACN



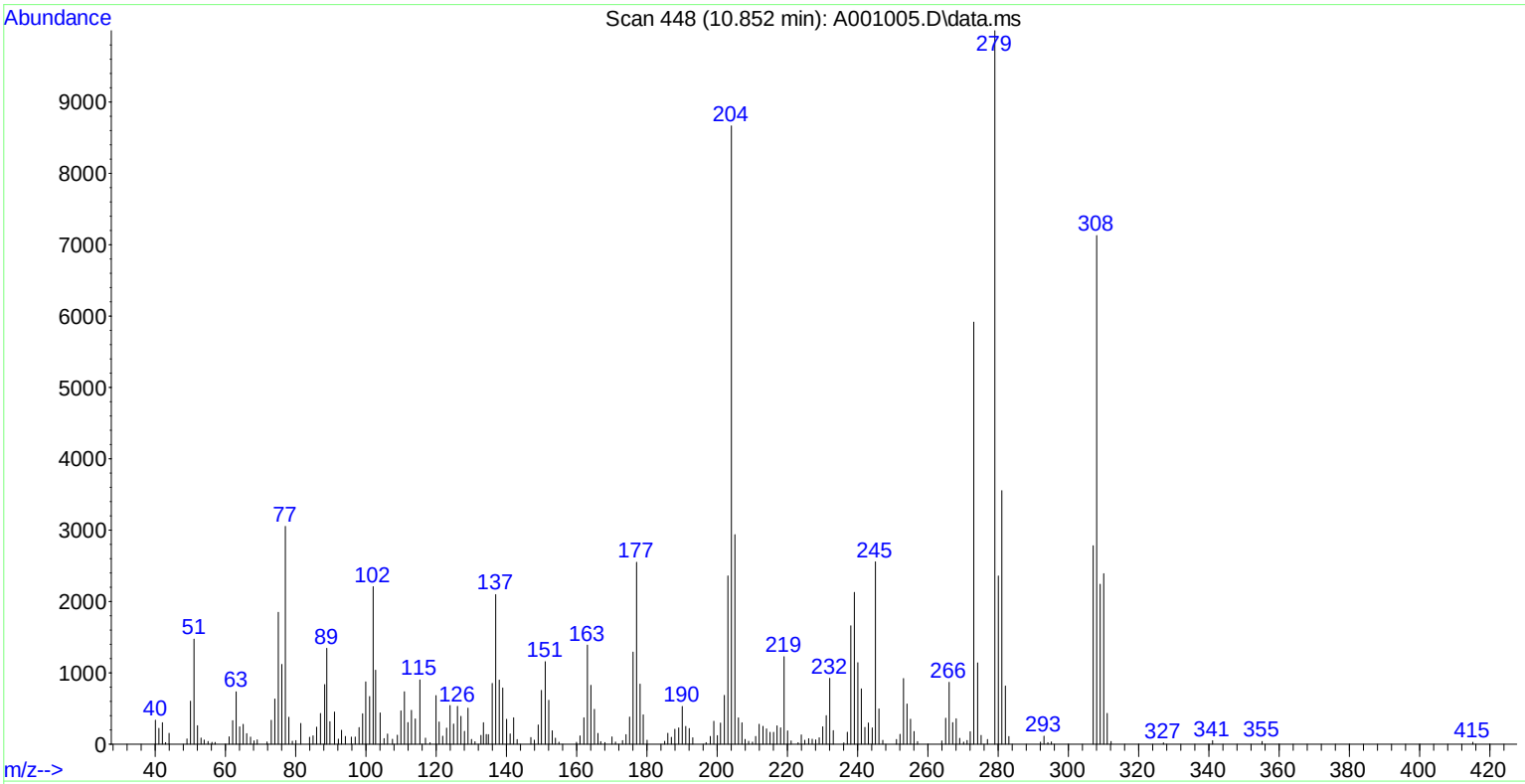


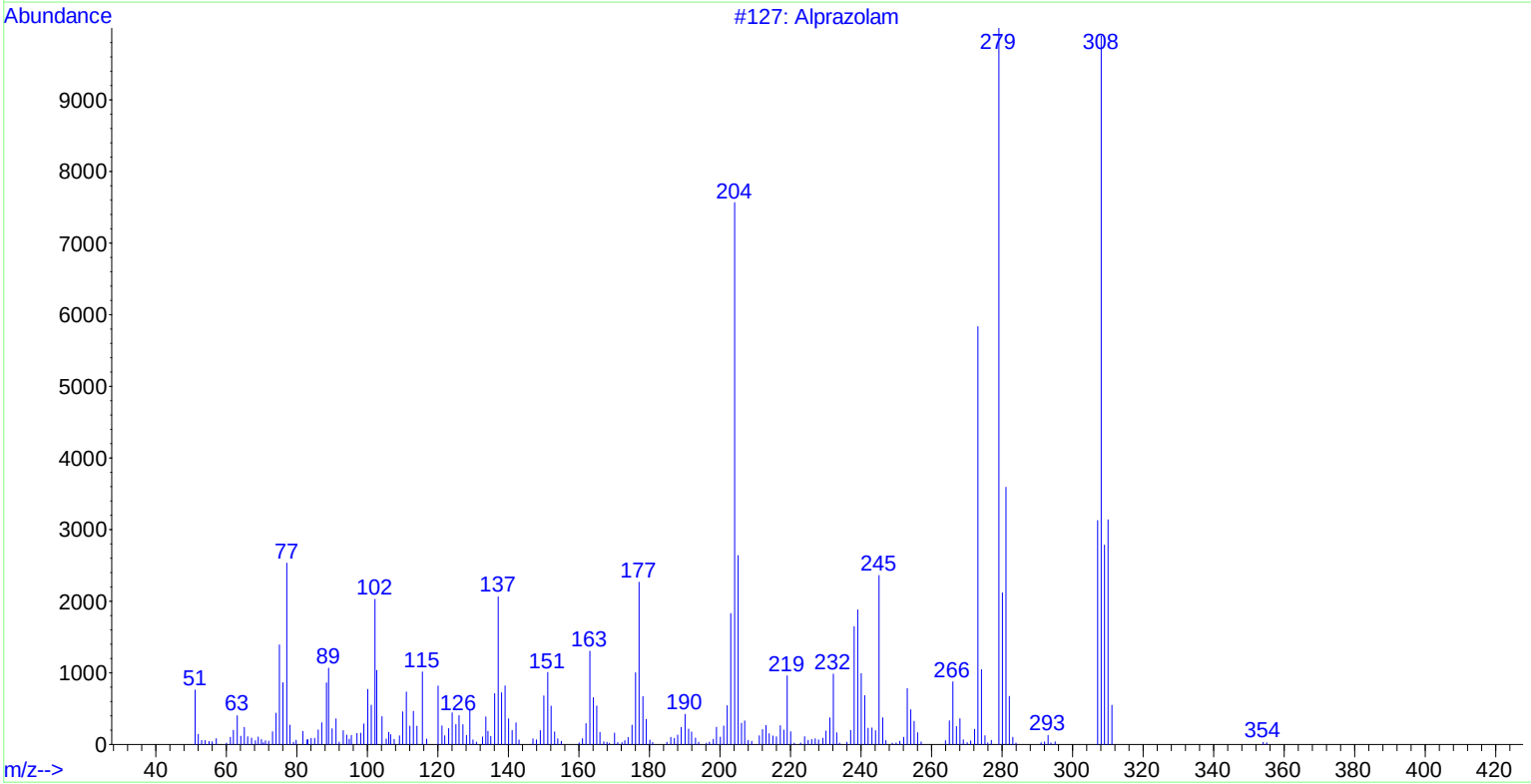
File :D:\GCMS1Data\Stds and Chemical Verification\Weekly Check Mix
... 2025\061625\A001005.D
Operator : AGILENT SD GCMS #1
Instrument : SD GCMS 1
Acquired : 16 Jun 2025 10:11 using AcqMethod BCCL GENDRUG METHOD.M
Sample Name: CAYMAN GC/MS MIX 3 (R-24-060) 000002665
Misc Info : In ACN



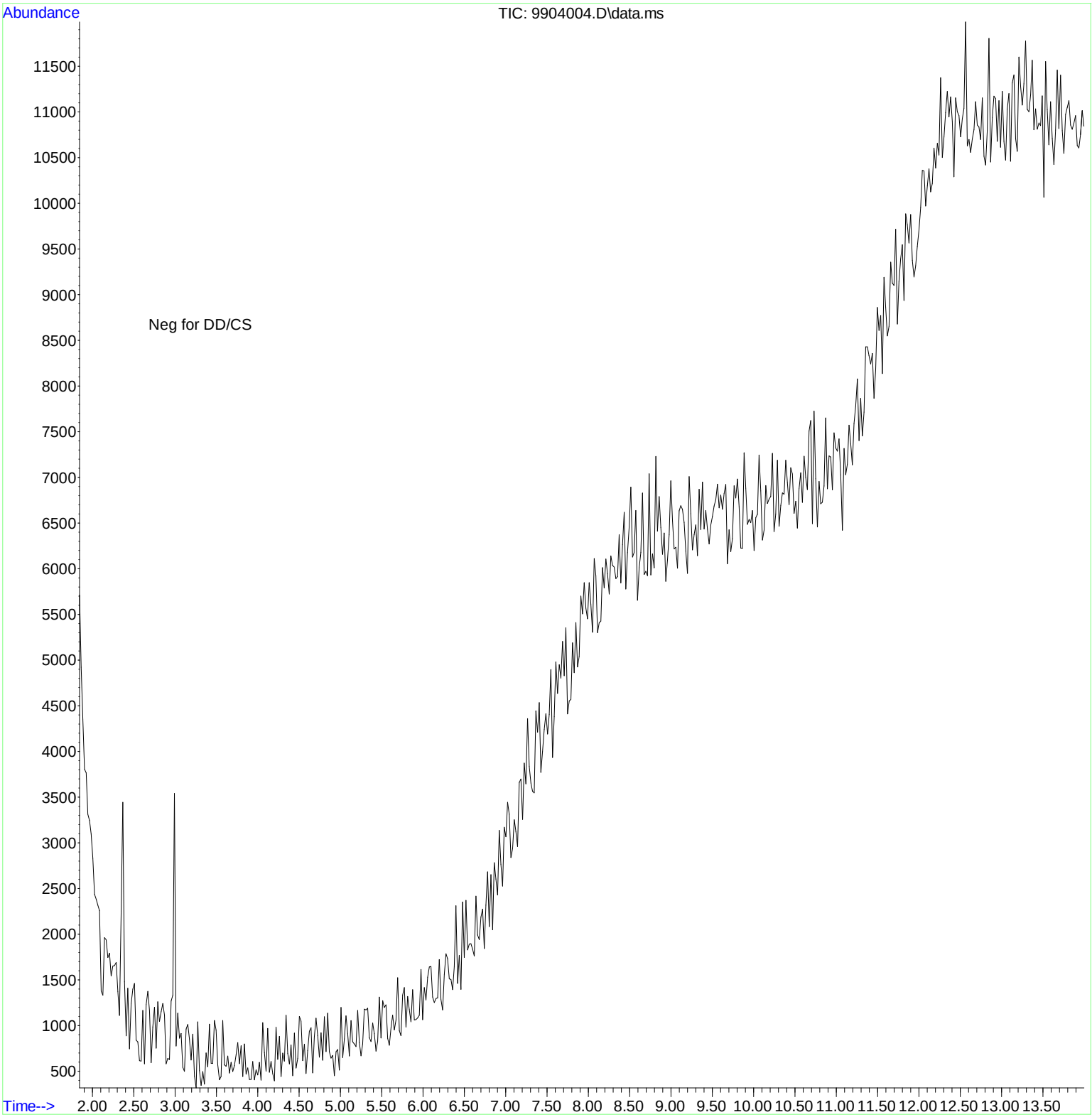


File :D:\GCMS1Data\Stds and Chemical Verification\Weekly Check Mix
... 2025\061625\A001005.D
Operator : AGILENT SD GCMS #1
Instrument : SD GCMS 1
Acquired : 16 Jun 2025 10:11 using AcqMethod BCCL GENDRUG METHOD.M
Sample Name: CAYMAN GC/MS MIX 3 (R-24-060) 000002665
Misc Info : In ACN

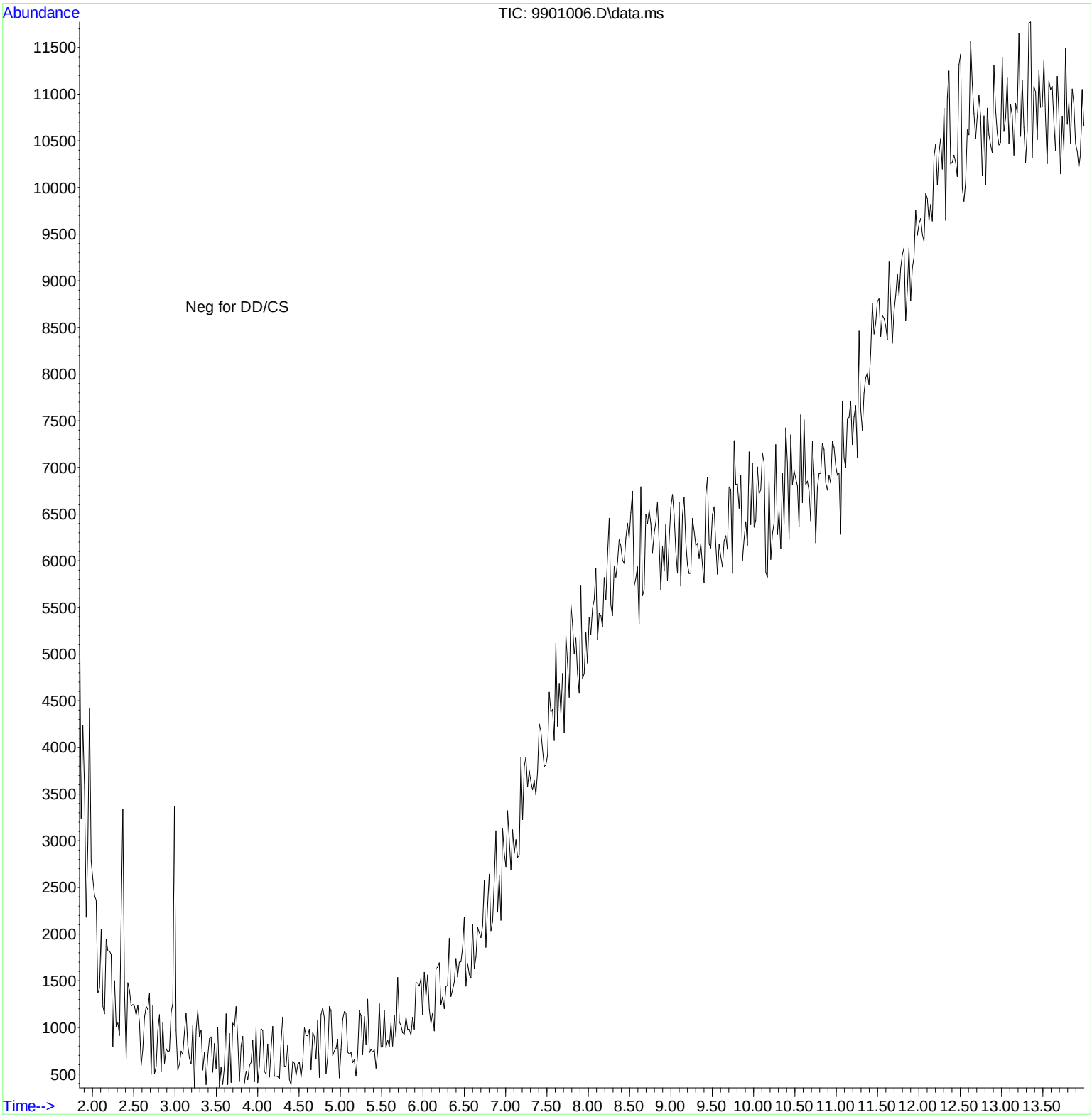




File :D:\GCMS1Data\Stds and Chemical Verification\Weekly Check Mix
... 2025\061625\9904004.D
Operator : AGILENT SD GCMS #1
Instrument : SD GCMS 1
Acquired : 16 Jun 2025 9:53 using AcqMethod BCCL GENDRUG METHOD.M
Sample Name: BLANK PRIOR TO CAYMAN GC/MS 000002664
Misc Info : ACN (C-19-0068)



File :D:\GCMS1Data\Stds and Chemical Verification\Weekly Check Mix
... 2025\061625\9901006.D
Operator : AGILENT SD GCMS #1
Instrument : SD GCMS 1
Acquired : 16 Jun 2025 10:28 using AcqMethod BCCL GENDRUG METHOD.M
Sample Name: BLANK - INSTRUMENT READY 000002664
Misc Info : ACN (C-19-0068)



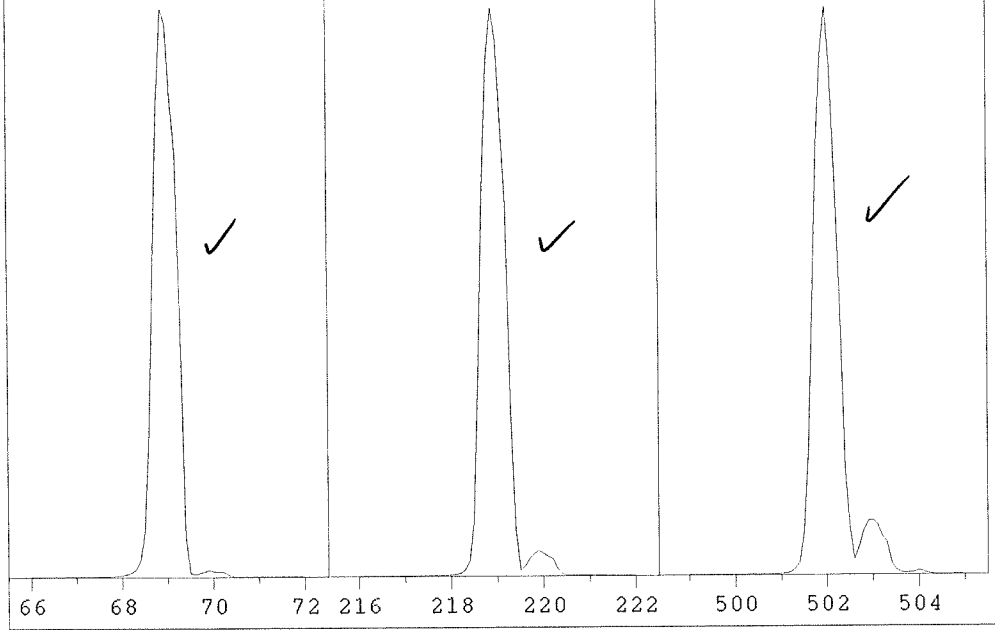
5973 Autotune

Mon Jun 23 07:12:56 2025
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Instrument: SD GCMS 1

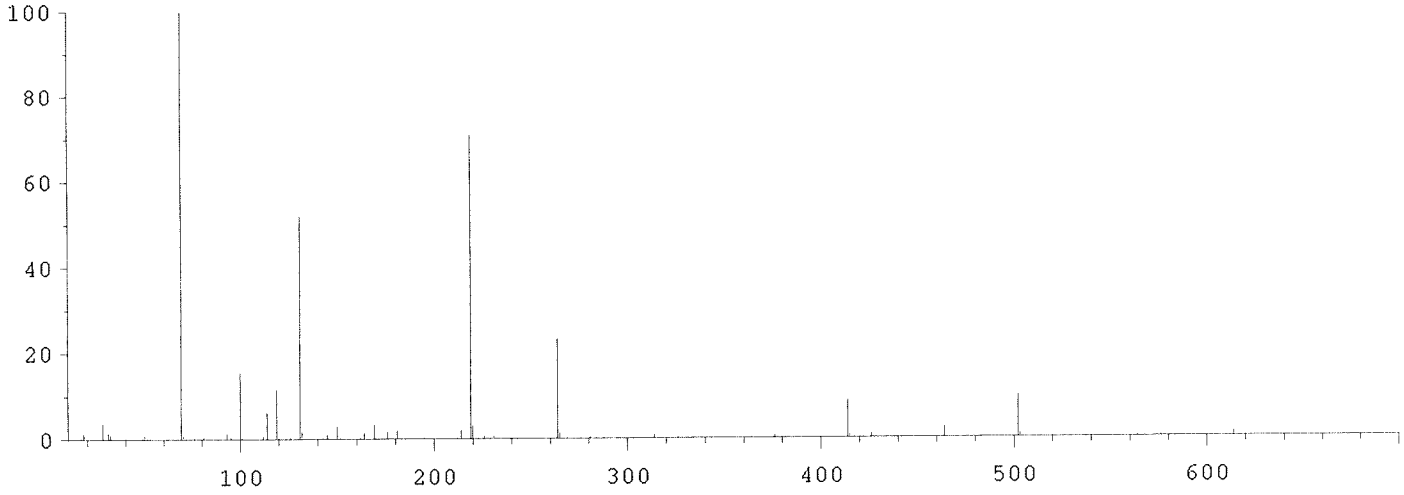
KB OK

Mass	68.90		
Ab	414638		
Pw50	0.59		
Mass	218.90		
Ab	295347		
Pw50	0.60		
Mass	502.00		
Ab	41117		
Pw50	0.59		



Ion Pol	POS	MassGain	367
		MassOffs	-12
Emission	34.6	AmuGain	2442
EIEnrgy	69.9	AmuOffs	124
Filament	1	Wid219	-0.024
		DC Pol	POS
Repeller	27.78		
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
128 peaks Base: 69.00 Abundance: 368000



Mass	Abund	Rel Abund	Iso Mass	Iso Abund	Iso Ratio
69.00	368000	100.00	70.00	4276	1.16
218.90	261376	71.03	219.90	11321	4.33
502.00	36560	9.93	503.00	3717	10.17

Air/Water Check: H2O~1.30% N2~3.56% O2~1.16% CO2~0.06% N2/H2O~273.51%

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

Ramp Criteria:
Ion Focus Maximum 90 volts using ion 502; EM Gain 117578
Repeller Maximum 35 volts using ion 219;

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

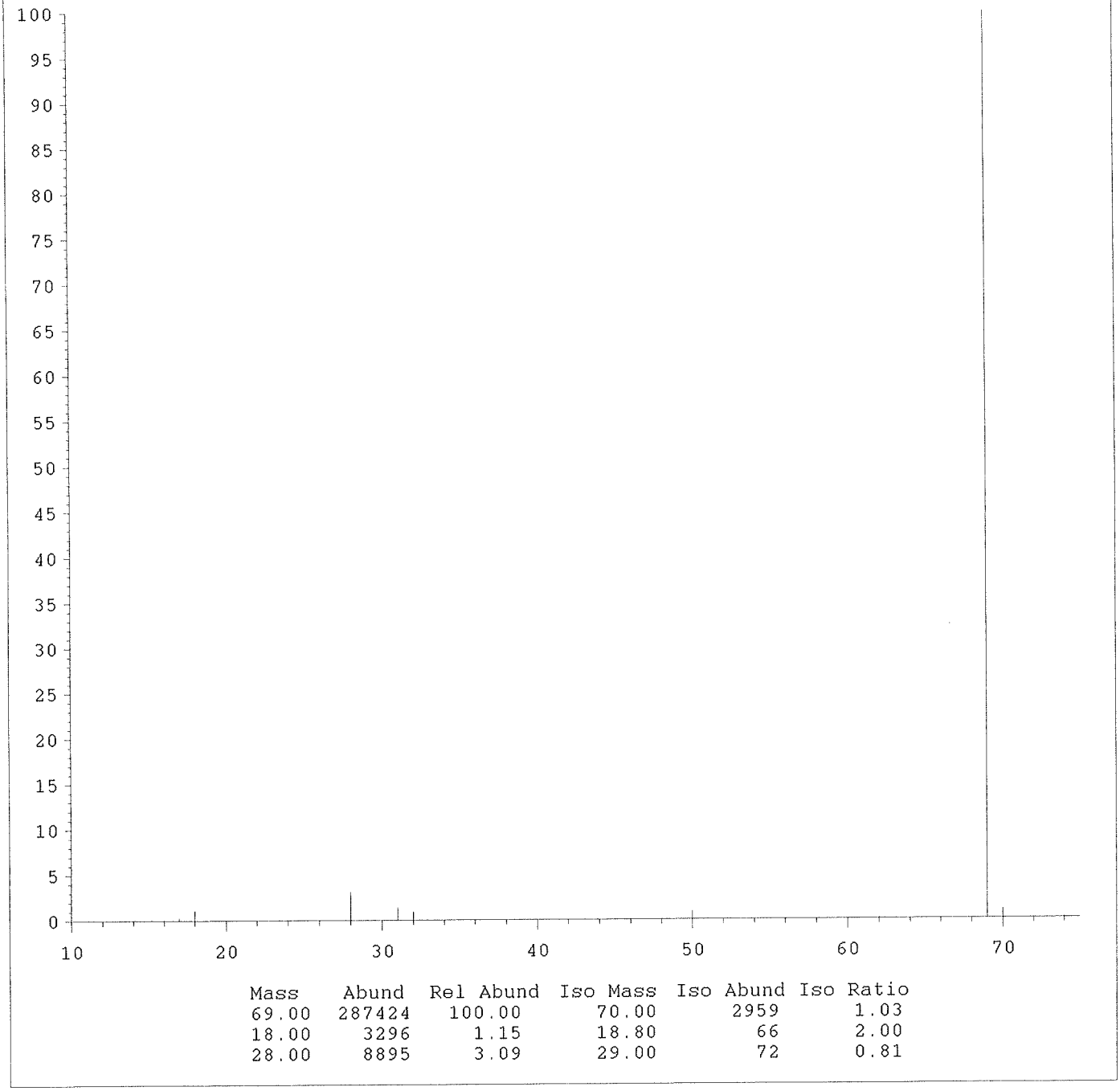
TARGET MASS:	50	69	131	219	414	502	800
Amu Offset:	124.0	124.0	124.0	124.0	124.0	124.0	124.0
Entrance Lens Offset:	19.1	19.1	19.1	19.1	19.1	19.1	19.1

597x Air and Water Check

KB
OK

Instrument: SD GCMS 1
Mon Jun 23 07:03:38 2025 C:\MSDCHEM\1\5973\

Scan: 10.00 - 75.00 Samples: 8 Thresh: 0 Step: 0.10
69 peaks Base: 69.00 Abundance: 287424



Mass	Abund	Rel Abund	Iso Mass	Iso Abund	Iso Ratio
69.00	287424	100.00	70.00	2959	1.03
18.00	3296	1.15	18.80	66	2.00
28.00	8895	3.09	29.00	72	0.81

Current Params used: atune.u

Relative abundances:

18/69 =	1.15 ✓	Water%
28/69 =	3.09 ✓	Nitrogen%
32/69 =	0.99 ✓	Oxygen%
44/69 =	0.08	Carbon Dioxide%
28/18 =	269.87	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	219.92	Ok
Position of isotope mass 503	503.00	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%)	4.33	Ok
Ratio of mass 503 to mass 502(7.9 - 12.3%)	10.14	Ok
Ratio of 219 to 69 should be > 40% and is	72.12	Ok
Ratio of 502 to 69 should be > 2.4% and is	10.15	Ok
Mass 69 Precursor (<= 3%)	0.18	Ok
Mass 219 Precursor (<= 6%)	0.35	Ok
Mass 502 Precursor (<= 12%)	0.51	Ok
Testing for a leak in the system		
Ratio of 18 to 69 (<20%)	1.33	Ok
Ratio of 28 to 69 (<10%)	3.75	Ok
Electron Multiplier Voltage	1624	Ok

Tune portion of System Verification passed.

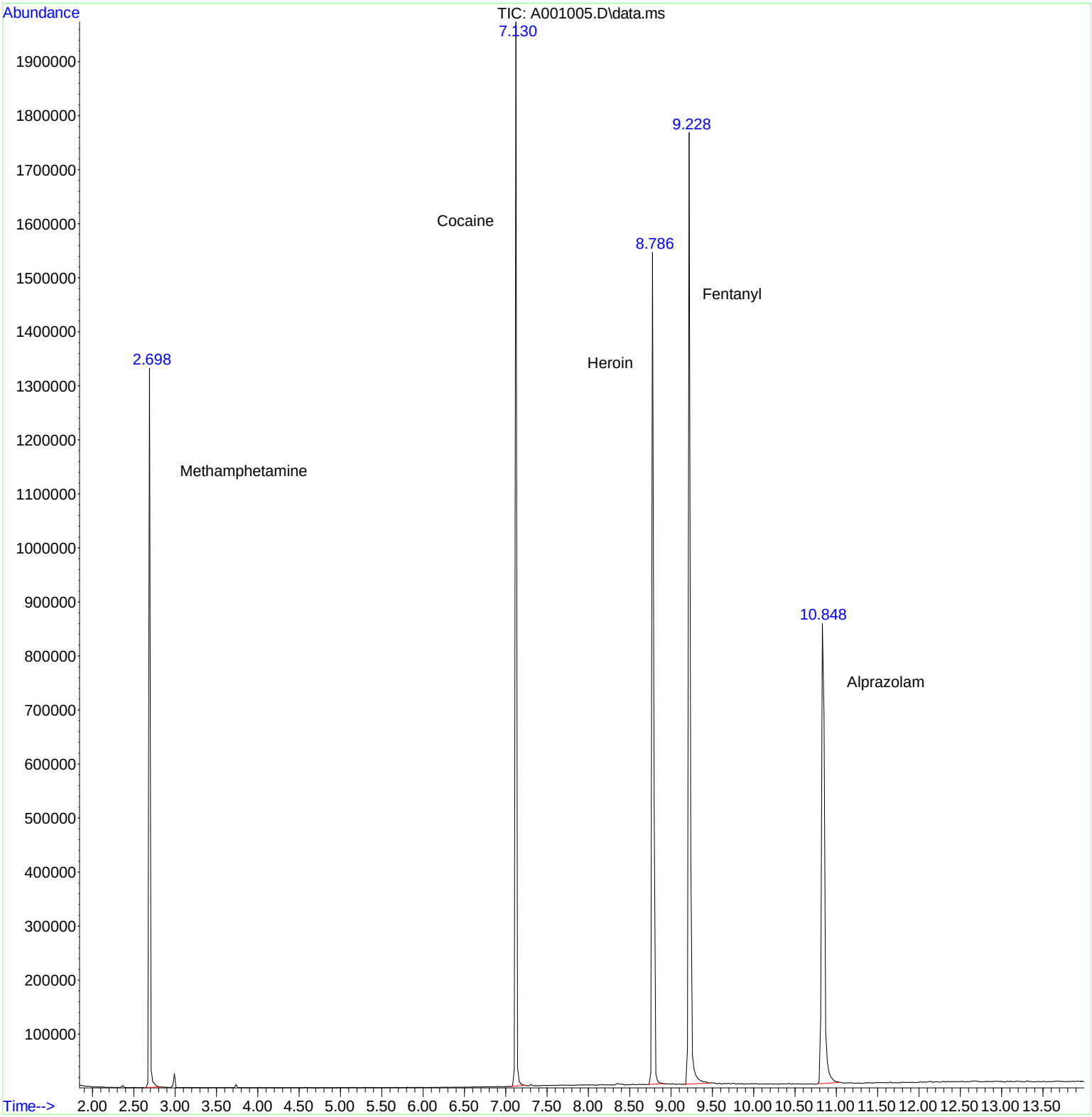
BCCL GC/MS #1
Retention Times for the Week of:

06/23/2025 - 06/29/2025

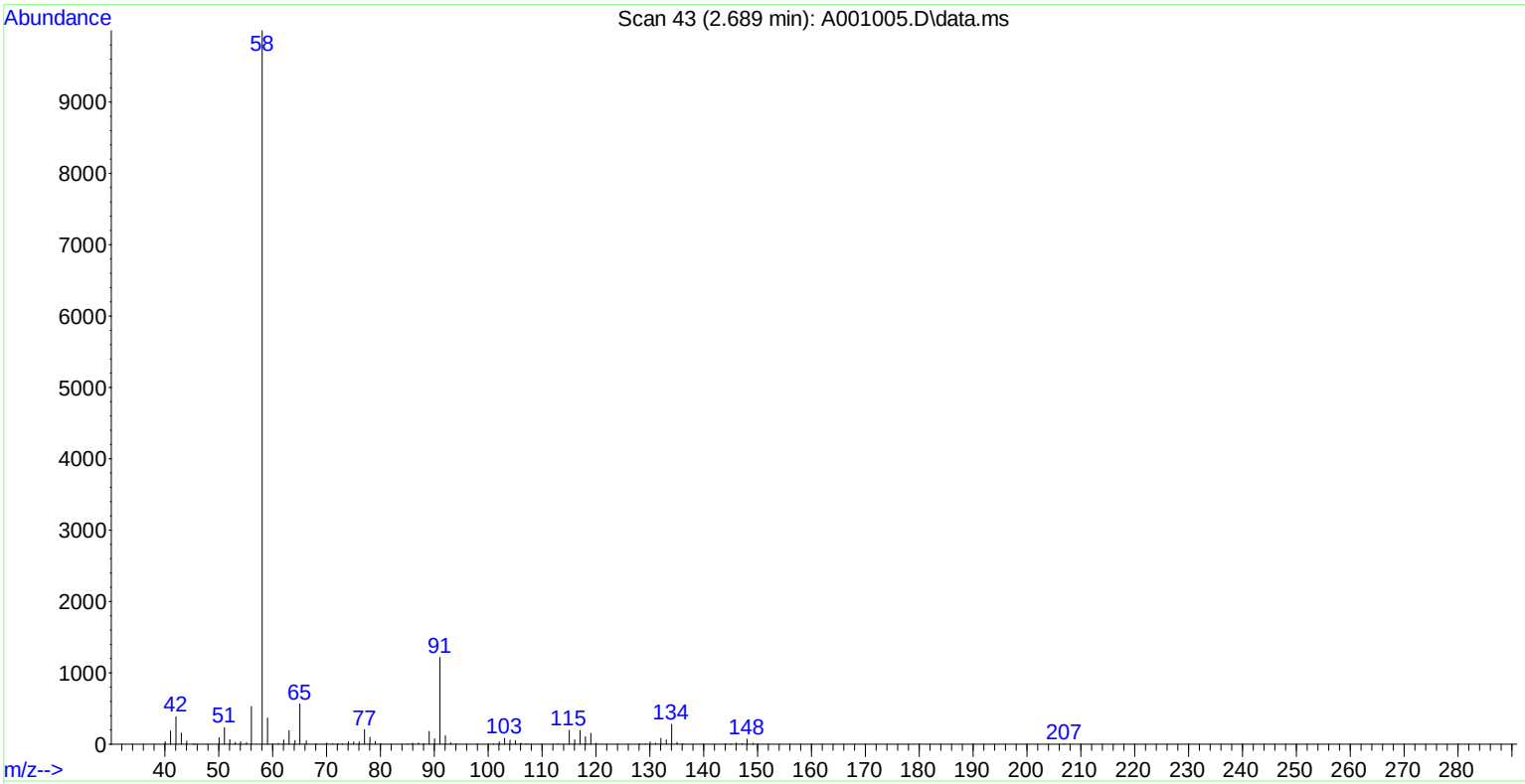
[x] **Tune: 06/23/2025 - Autotune KB**

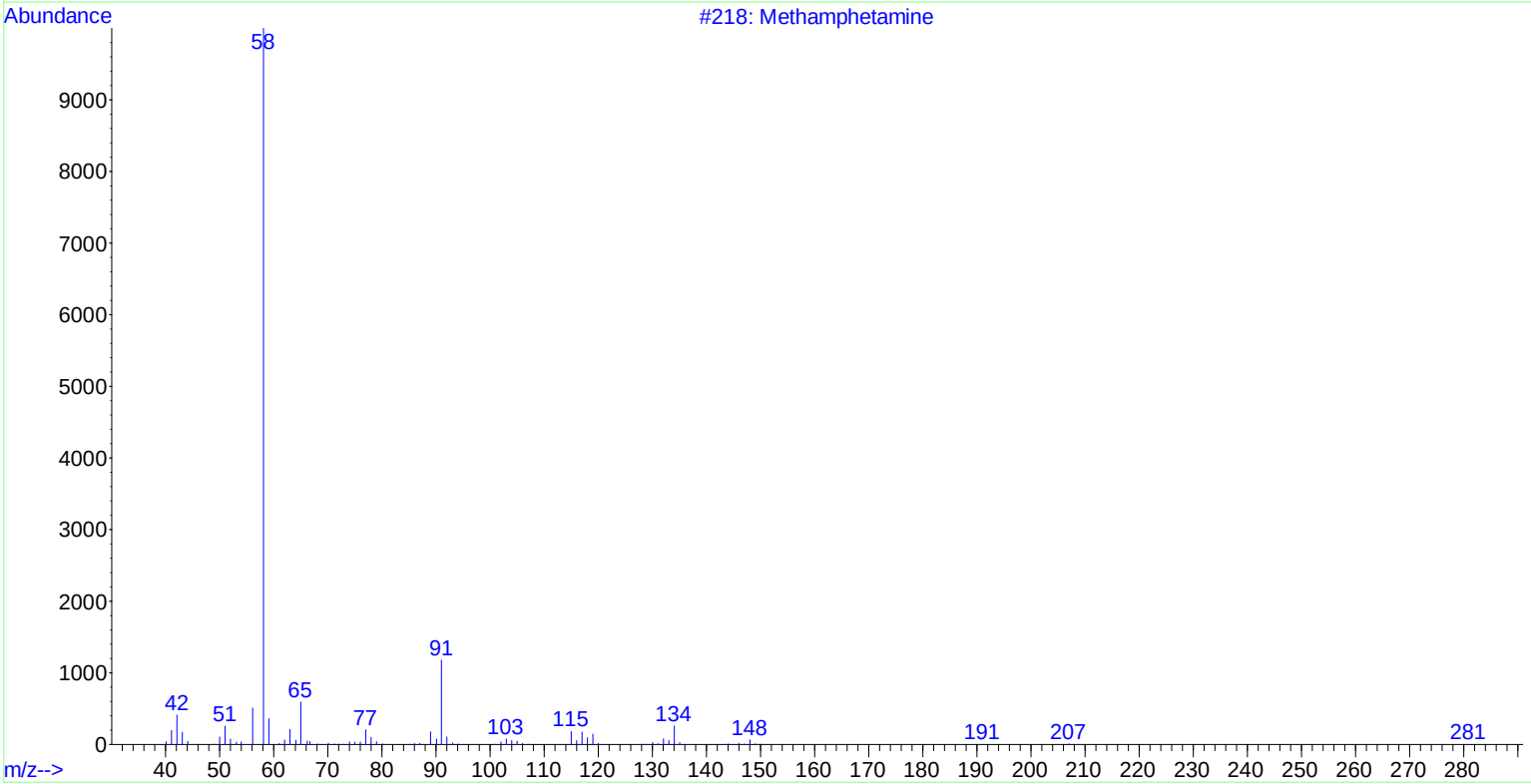
Standard	Standard #	Method	Retention Time	1% Window	
Methamphetamine	R-24-060	BCCL GenDrug	2.698	2.671	2.724
Cocaine	R-24-060	BCCL GenDrug	7.130	7.058	7.201
Heroin	R-24-060	BCCL GenDrug	8.786	8.698	8.873
Fentanyl	R-24-060	BCCL GenDrug	9.228	9.135	9.320
Alprazolam	R-24-060	BCCL GenDrug	10.848	10.739	10.956

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... 2025\062325\A001005.D
Operator : AGILENT SD GCMS #1
Instrument : SD GCMS 1
Acquired : 23 Jun 2025 8:25 using AcqMethod BCCL GENDRUG METHOD.M
Sample Name: CAYMAN GC/MS MIX 3 (R-24-060) 000002665
Misc Info : In ACN

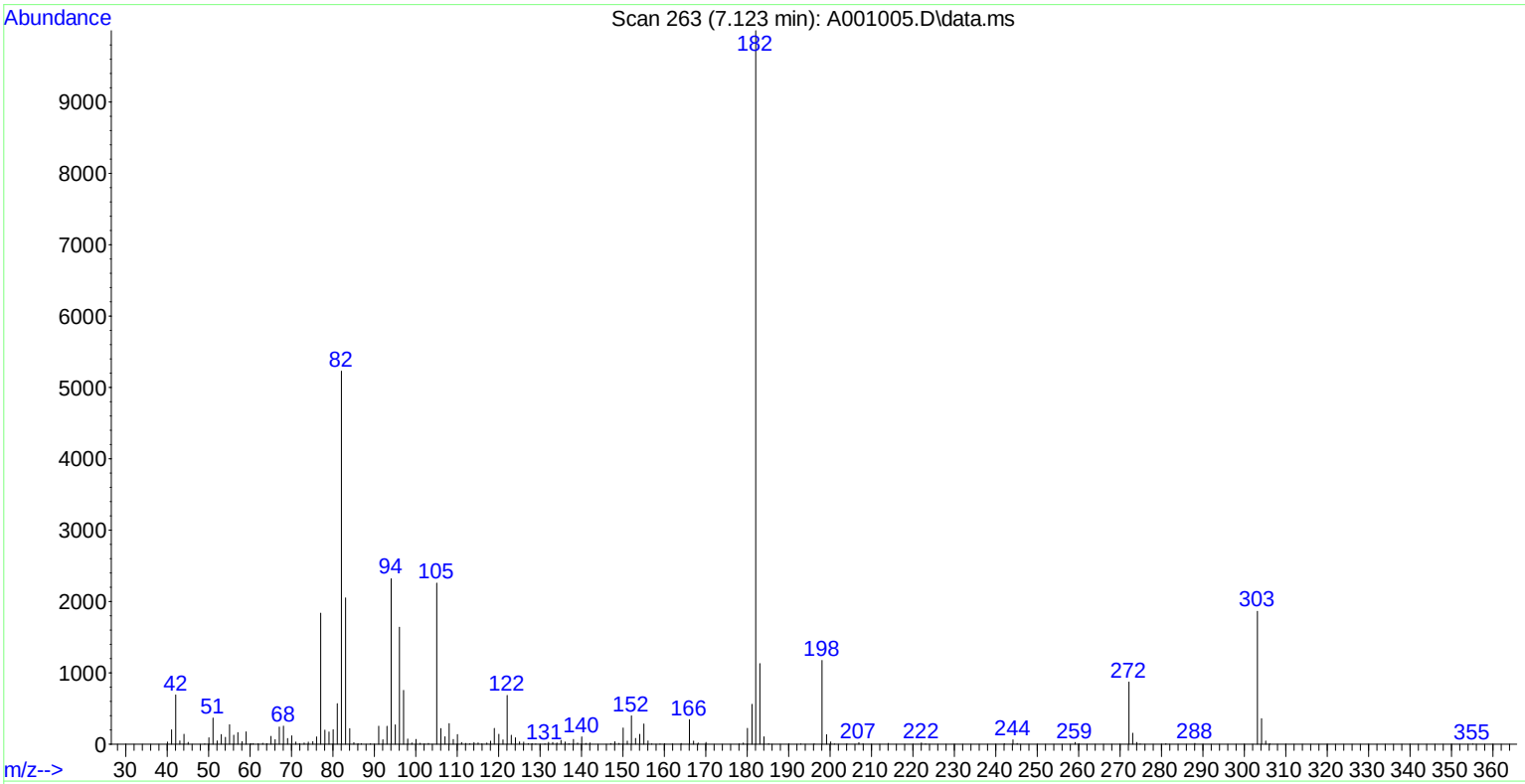


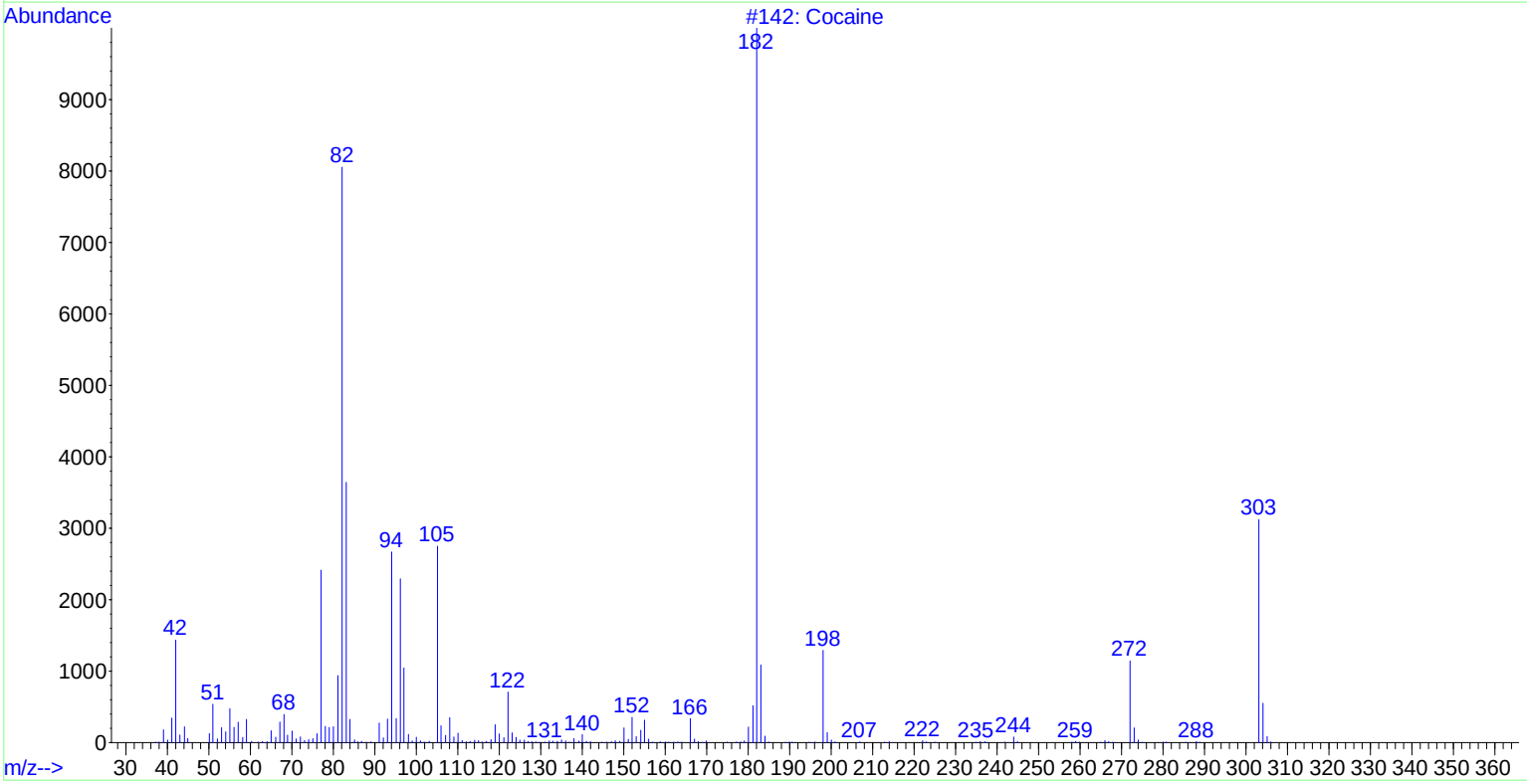
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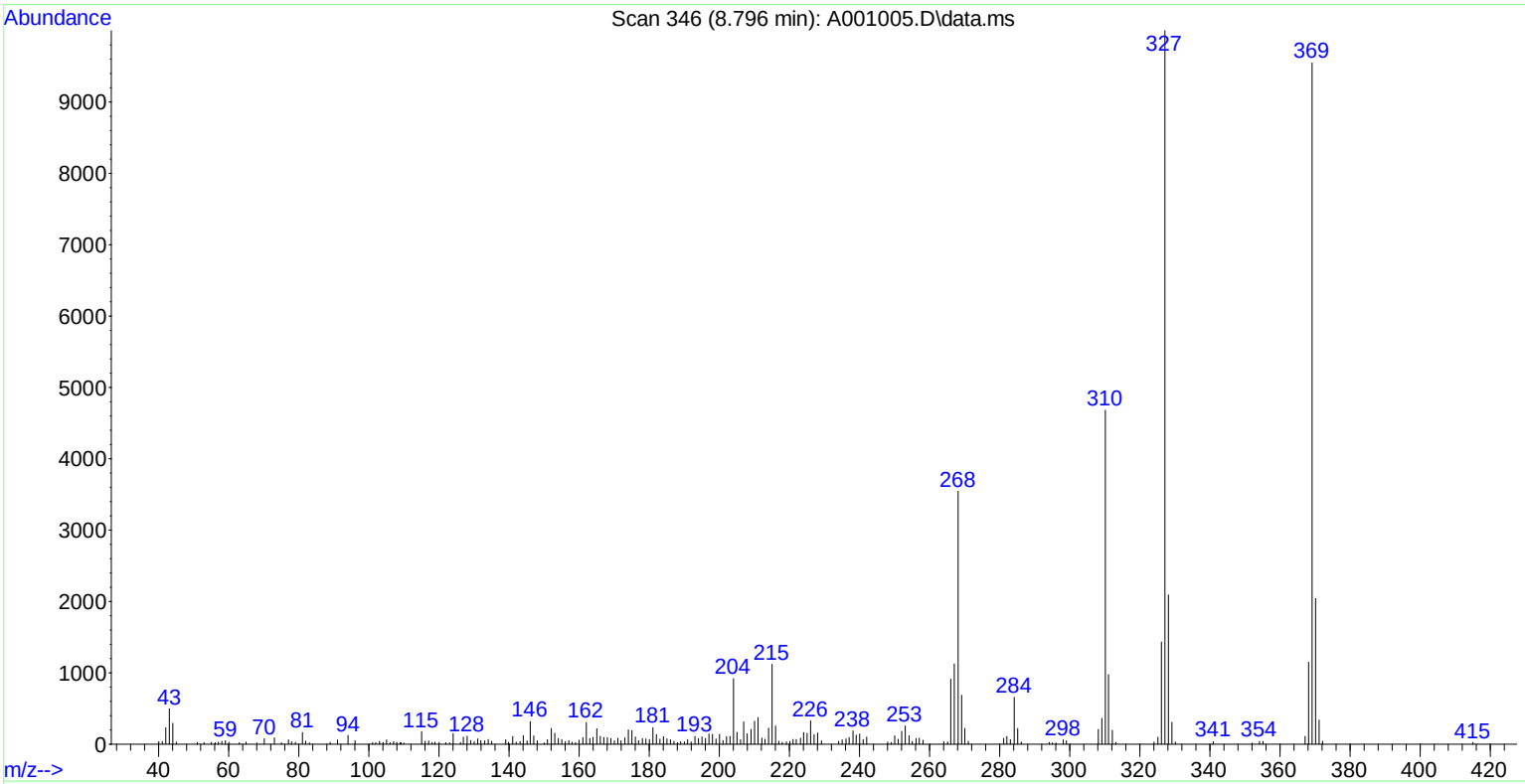


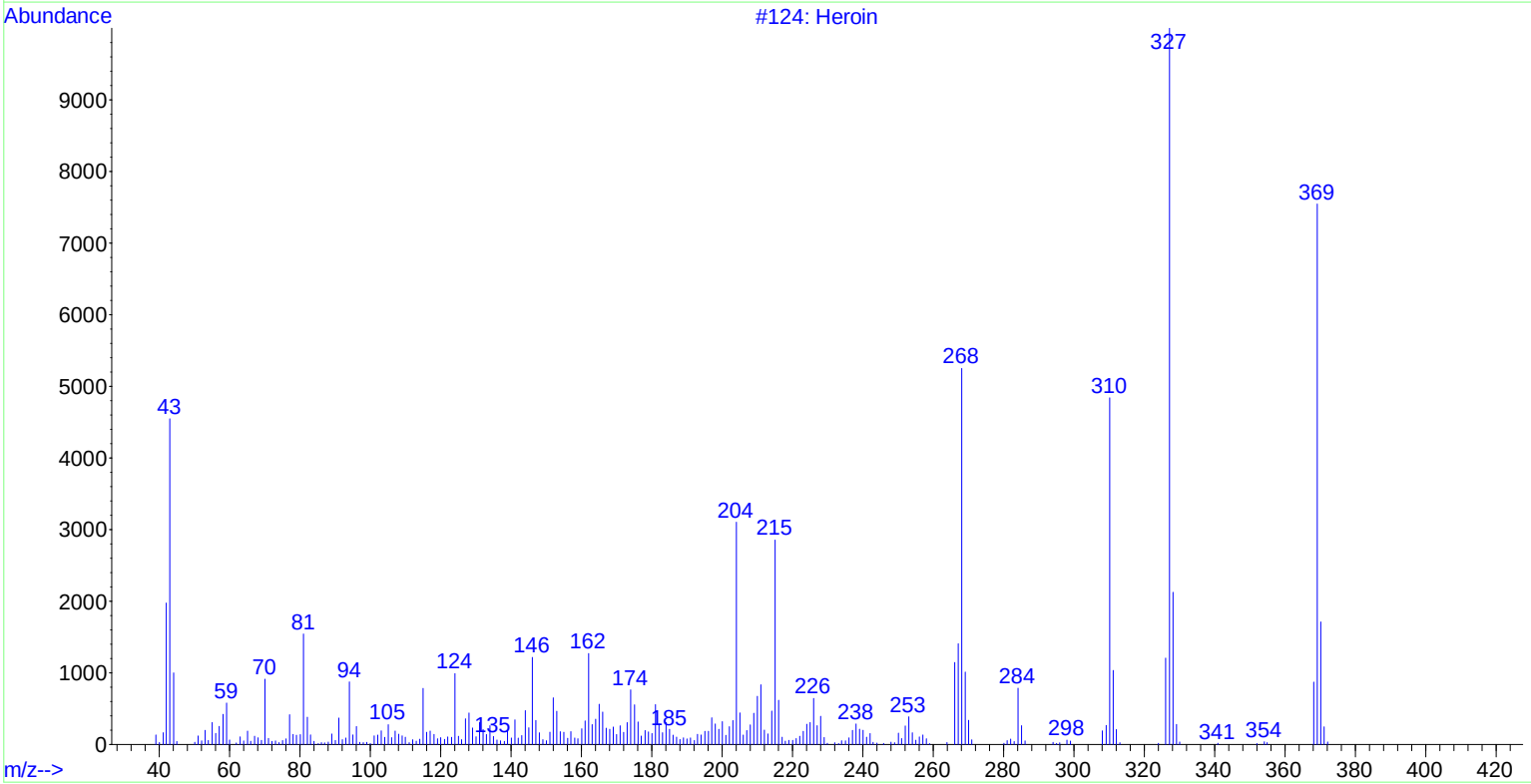
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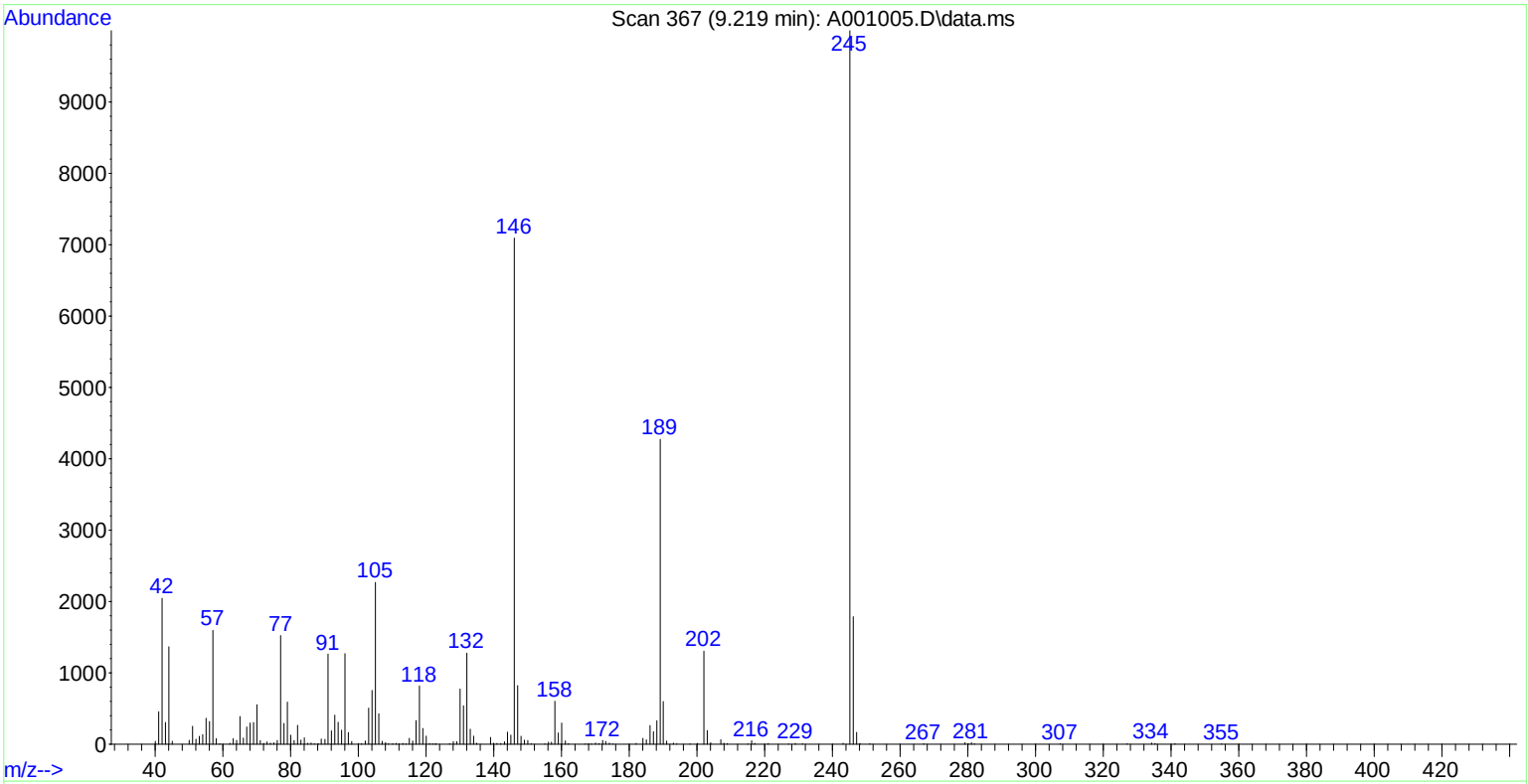


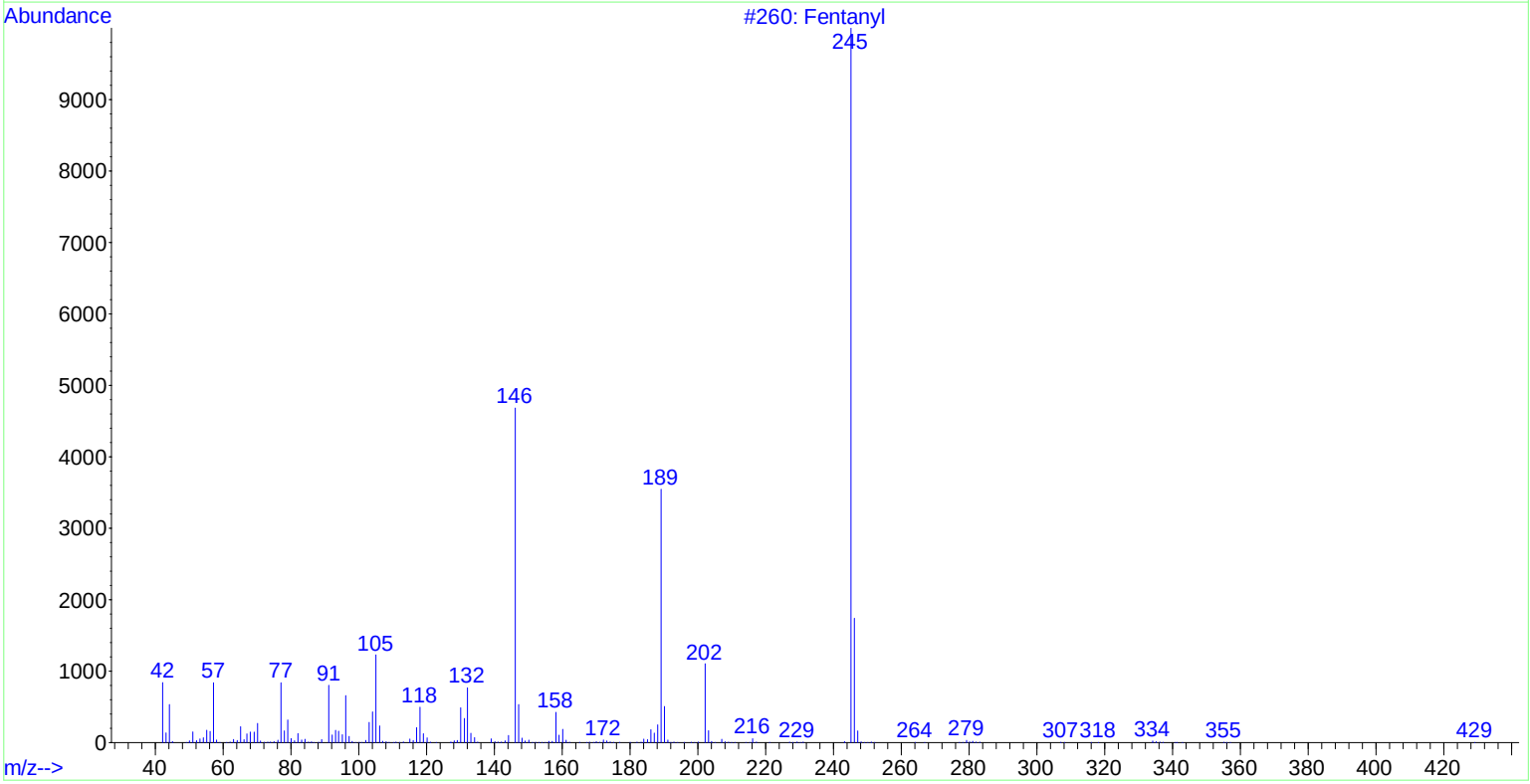
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Instrument : SD GCMS 1
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Sample Name: CAYMAN GC/MS MIX 3 (R-24-060) 000002665
Misc Info : In ACN



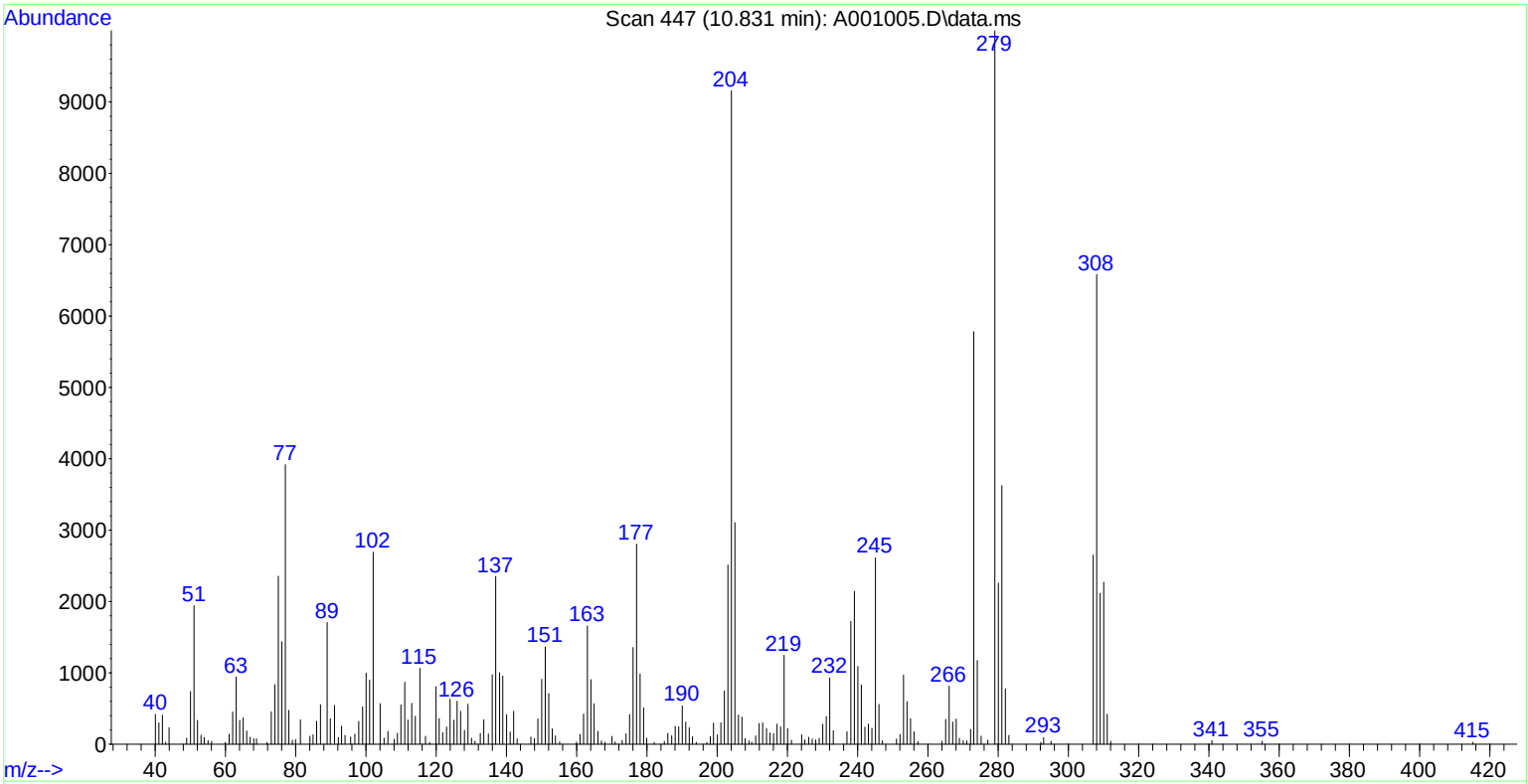


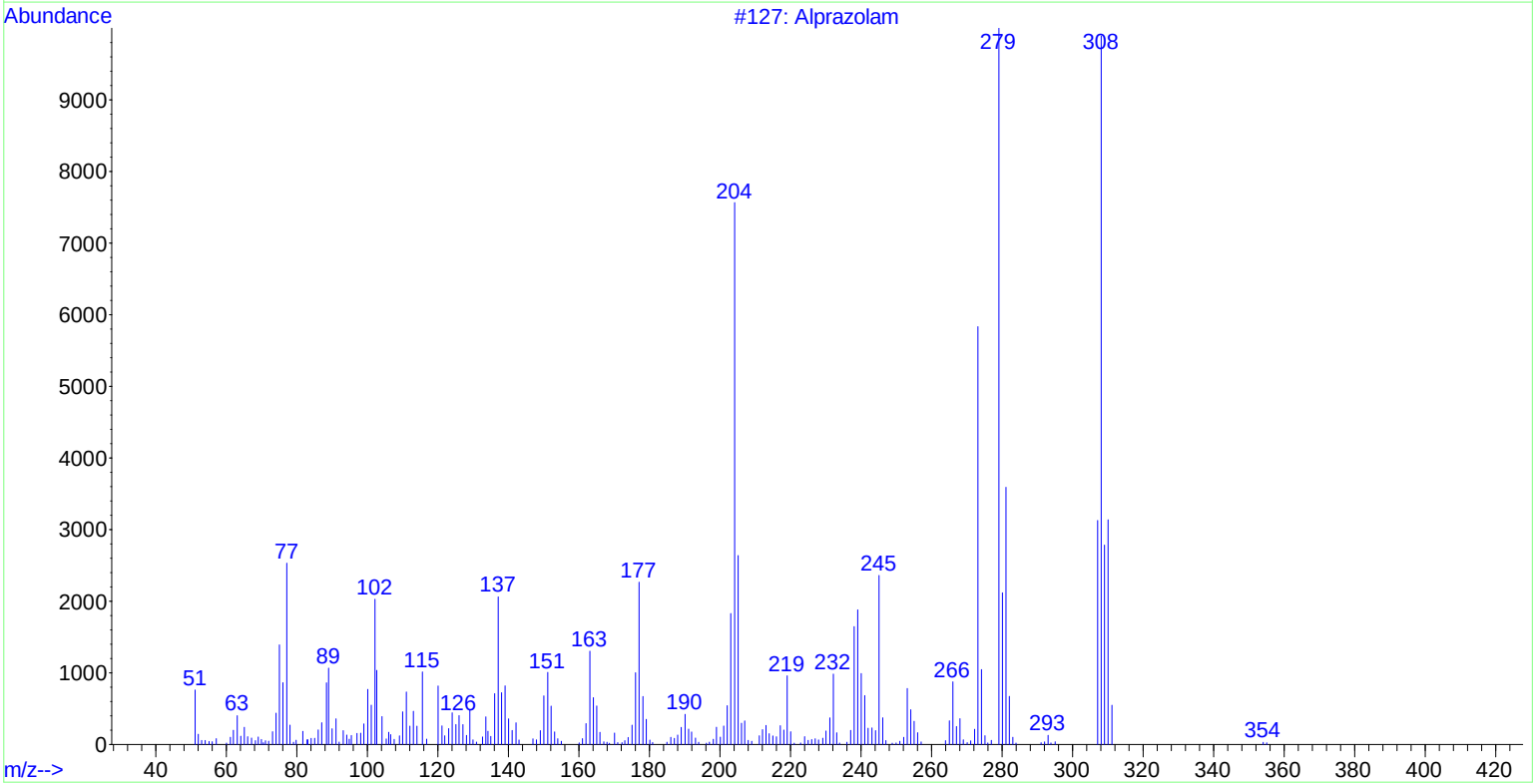
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Misc Info : In ACN



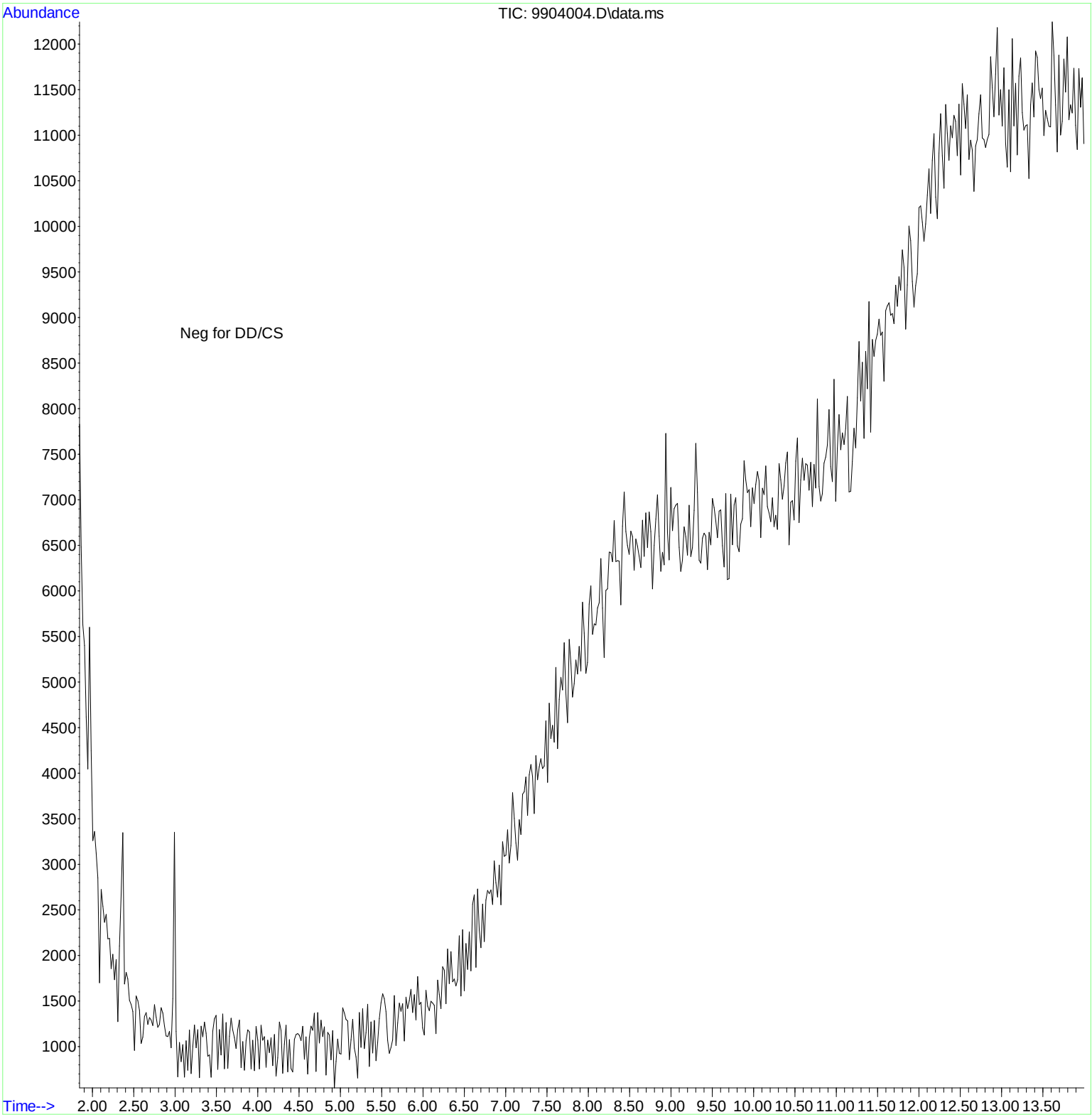


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Operator : AGILENT SD GCMS #1
Instrument : SD GCMS 1
Acquired : 23 Jun 2025 8:25 using AcqMethod BCCL GENDRUG METHOD.M
Sample Name: CAYMAN GC/MS MIX 3 (R-24-060) 000002665
Misc Info : In ACN





File :D:\GCMS1Data\Stds and Chemical Verification\Weekly Check Mix
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Operator : AGILENT SD GCMS #1
Instrument : SD GCMS 1
Acquired : 23 Jun 2025 8:07 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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... 2025\062325\9901006.D
Operator : AGILENT SD GCMS #1
Instrument : SD GCMS 1
Acquired : 23 Jun 2025 8:42 using AcqMethod BCCL GENDRUG METHOD.M
Sample Name: BLANK - INSTRUMENT READY 000002664
Misc Info : ACN (C-19-0068)

