Brazoria County Crime Lab

Seized Drugs Section

GC-MS Maintenance Log

Instrument: GCMS-3 **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	6/9/2025	1300	Pass	N/A	✓	N/A	N/A	N/A	✓	Maintenance	Analyst		DS
2	6/9/2025	1300	N/A	N/A	N/A	N/A	N/A	N/A	N/A	Maintenance	Analyst	Performance check completed	DS
3	6/11/2025	N/A	Pass	N/A	N/A	N/A	N/A	✓	N/A	Maintenance	Analyst	See Maint Notes dated 06/11/2025	DS
4	6/16/2025	2700	Pass	N/A	N/A	N/A	N/A	N/A	N/A	Maintenance	Analyst	Helium tank change	DS/DN
5	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
6	6/23/2025	1400	Pass	N/A	✓	N/A	N/A	N/A	✓	Maintenance	Analyst		KB
7	6/29/2025	400	Pass	N/A	N/A	N/A	N/A	N/A	N/A	Maintenance	Analyst	switch to filament 2 after filament 1 failure	DS
8	6/30/2025	2700	Pass	✓	✓	✓	N/A	N/A	N/A	Maintenance	Analyst	Helium tank change	KB

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

Maintenance Notes

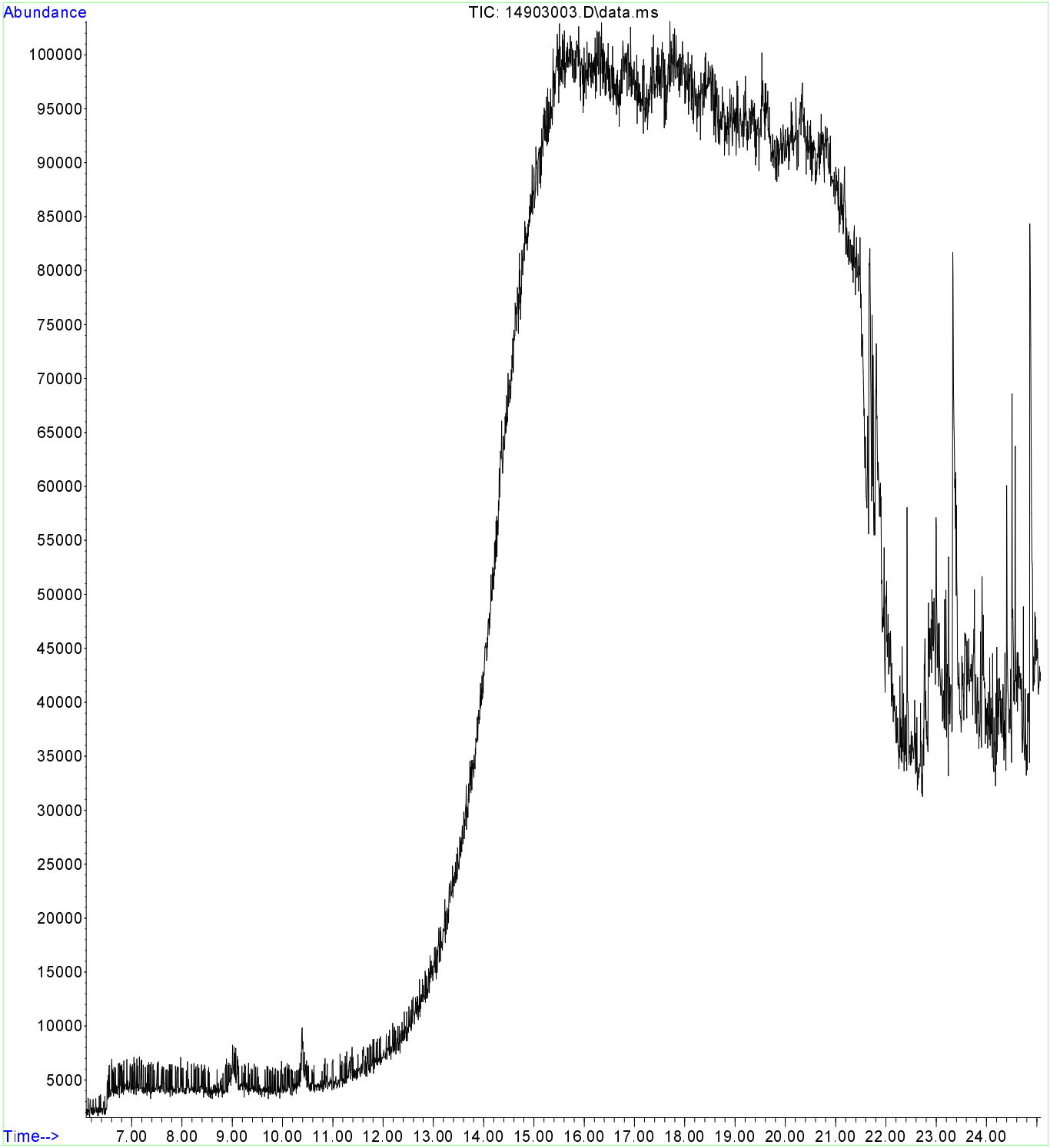
Instrument: SD GCMS 3 Page 1 of 1

Analyst: DS Date: 06/11/2025

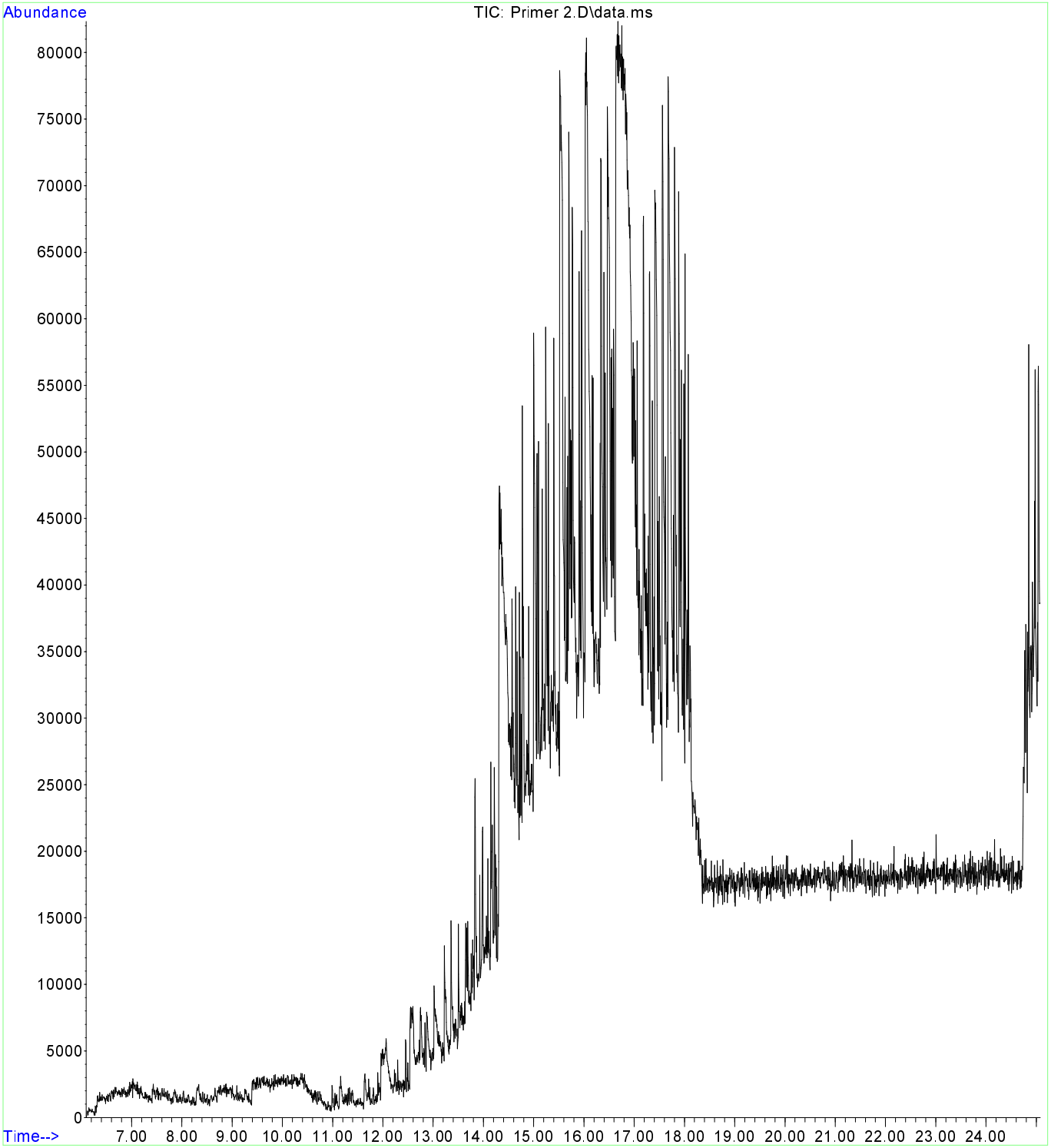
Notes:

On 06/09/2025 and 06/10/2025, it was noted that blanks run on the instrument were not of the typical nature. There was a jagged baseline and multiple small peaks throughout the TIC. On the weekly check for 06/09/2025, the baseline was not abnormal, so the weekly packet was passed. As can be seen from the various blank printouts during this periods, some blanks were okay while others were not. As solutions to why the baseline was erratic centered on the column that was replaced during the instruments annual preventative maintenance. It was suspected that the column had sheared off at the intersection to the MSD interface which was causing the abnormal baseline. It was decided on by this analyst on June 11 to reseat the column in the MSD interface. The instrument was cooled and vented and the column removed. It was noticed that the column was perfectly cut and there was no shearing. The analyst noted the condition of the ferrule in the interface and noted its condition. It was a longer ferrule and from this analyst past experience, these types of ferrules needed prior conditioning before using in the interface. As the ferrule was being removed, the column snapped at the point of the ferrule connection which resulted in about eight inches of the column being lost. I cut an additional four inches from the column to get a squared column cut and used a shorter ferrule with a self-tighten nut. The column was re-installed into the MSD with the new ferrule and column nut and the instrument pumped down. The instrument was autotuned on the evening of June 11 and the weekly check mix was also run to confirm the new retention times based on the column being trimmed. All blanks for the weekly check mix were normal and the instrument returned to service. See weekly check mix packet dated 06/11/2025. Blanks from 06/09 and 06/10 will also be attached to this note set.

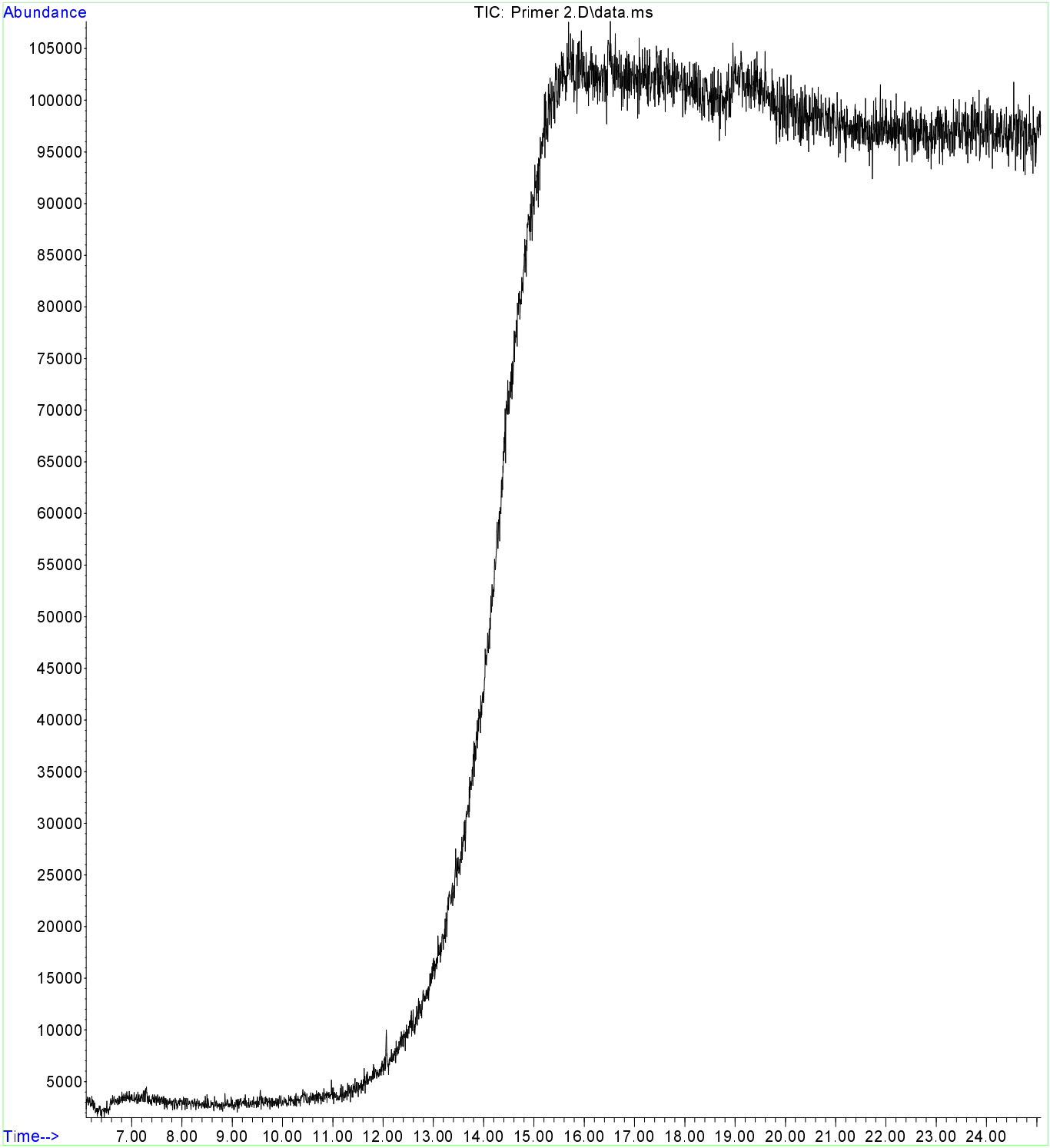
File :D:\MassHunter\GCMS\1\GCMS 3 data\Standards\Weekly Check\2025
... Data\060925\14903003.D
Operator : DrugChem-HP\admin
Instrument : BCCL SD GCMS 3
Acquired : 09 Jun 2025 09:17 using AcqMethod DrugTest35.M
Sample Name: Pre-Conditioning run BLANK (C-19-0069) 000002666
Misc Info : 000002666



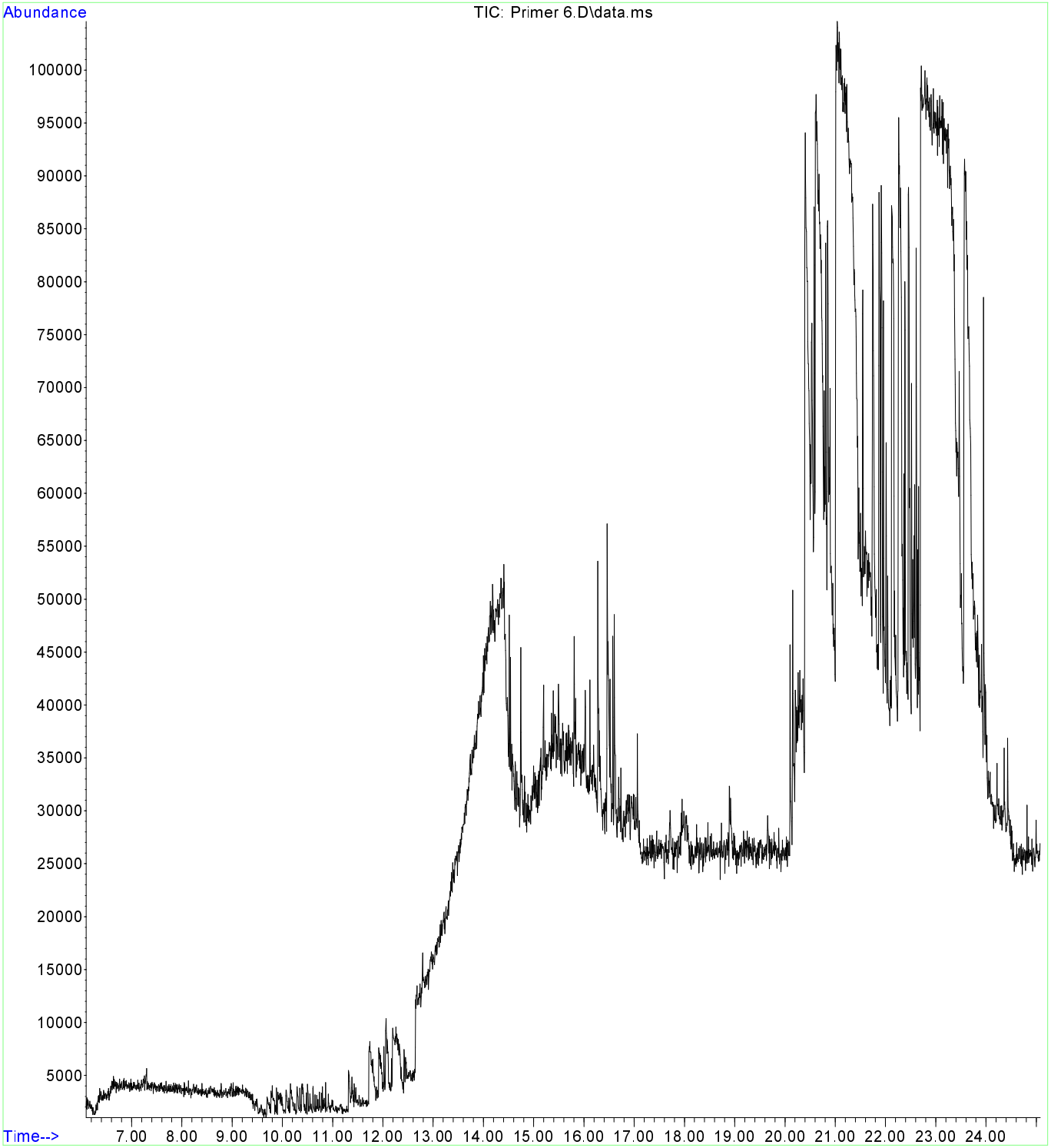
File :D:\MassHunter\GCMS\1\GCMS 3 data\2025 Data\060925\Primer 2.D
Operator : DrugChem-HP\admin
Acquired : 09 Jun 2025 16:50 using AcqMethod DrugTest35.M
Instrument : BCCL SD GCMS 3
Sample Name: Blank 000002473
Misc Info : Blank 000002473
Vial Number: 61



File :D:\MassHunter\GCMS\1\GCMS 3 data\2025 Data\061025\Primer 2.D
Operator : DrugChem-HP\admin
Acquired : 10 Jun 2025 11:06 using AcqMethod DrugTest35.M
Instrument : BCCL SD GCMS 3
Sample Name: Blank 000002472
Misc Info : Blank 000002472
Vial Number: 63



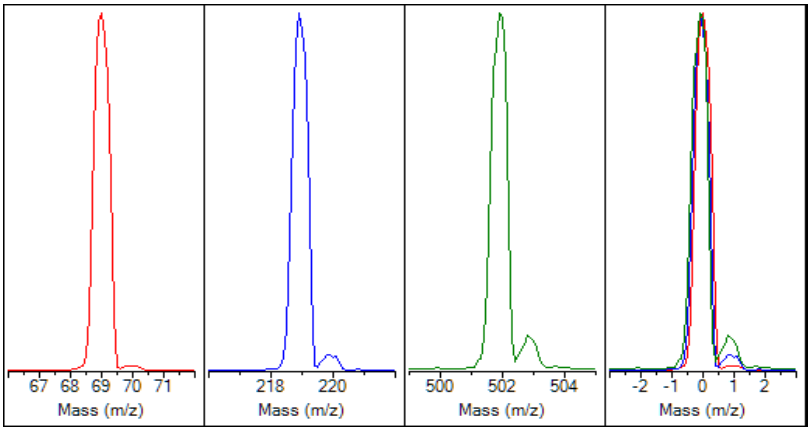
File :D:\MassHunter\GCMS\1\GCMS 3 data\2025 Data\061025\Primer 6.D
Operator : DrugChem-HP\admin
Acquired : 10 Jun 2025 16:55 using AcqMethod DrugTest35.M
Instrument : BCCL SD GCMS 3
Sample Name: Blank 000002472
Misc Info : Blank 000002472
Vial Number: 63



Autotune - 5977

6/9/2025 8:36:17 AM (UTC-5:00) BCCL SD GCMS 3

D:\MASSHUNTER\GCMS\1\5977\atune.u US1329M205



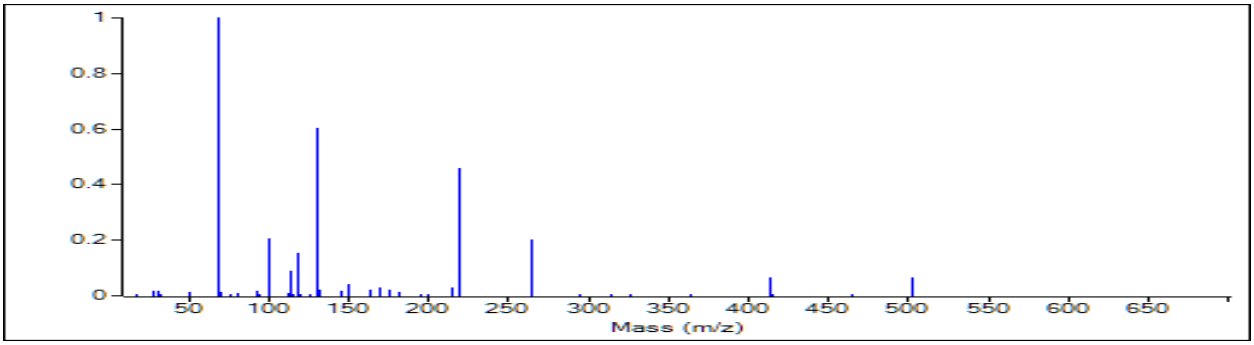
Ion Polarity	Pos	Mass Gain	-362
Emission	34.6	Mass Offset	-33
Electron Energy	70.0	Amu Gain	1677
Filament	1	Amu Offset	119.81
Repeller	30.32	Width219	-0.018
Ion Focus	86.4	DC Polarity	Pos
Entrance Lens	20.2	HED Enable	On
Ent Lens Offset	11.16	EM Volts	1876.4
Ion Body	0.00	Extractor Lens	0.00
		Scan Speed	3
		Averages	3
PFTBA	Open	Step Size	0.10

Temperatures and Pressures

MS Source	230	Turbo Speed	100.0
MS Quad	150	Hi Vac	8.66e-06

Mass	Abund	Rel Abund	Pw50
69.00	137,397	100.0%	0.60
218.90	64,510	47.0%	0.59
501.90	9,121	6.6%	0.59

Low	High	Step	Speed	Threshold	Peaks	Base	Abundance	Total Ion
10.00	701.00	0.10	3	100	64	69.00	133,696	431,335



Mass	Abund	Rel Abund	Iso Mass	Iso Abund	Iso Ratio
69.00	133,696	100.00	70.00	1,390	1.04
219.00	61,360	45.90	220.00	2,695	4.39
501.90	8,742	6.54	502.90	866	9.91

Air/Water Check: H20 ~0.5% N2 ~1.5% O2 ~0.5% CO2 ~0.0% N2/H20 ~305.4%

Column(1) Flow: 0.80 Column(2): 0.00 ml/min Interface Temp: 280

Ramp Criteria:

Ion Focus maximum 90 volts using ion 502; Electron Multiplier Gain 86462.206

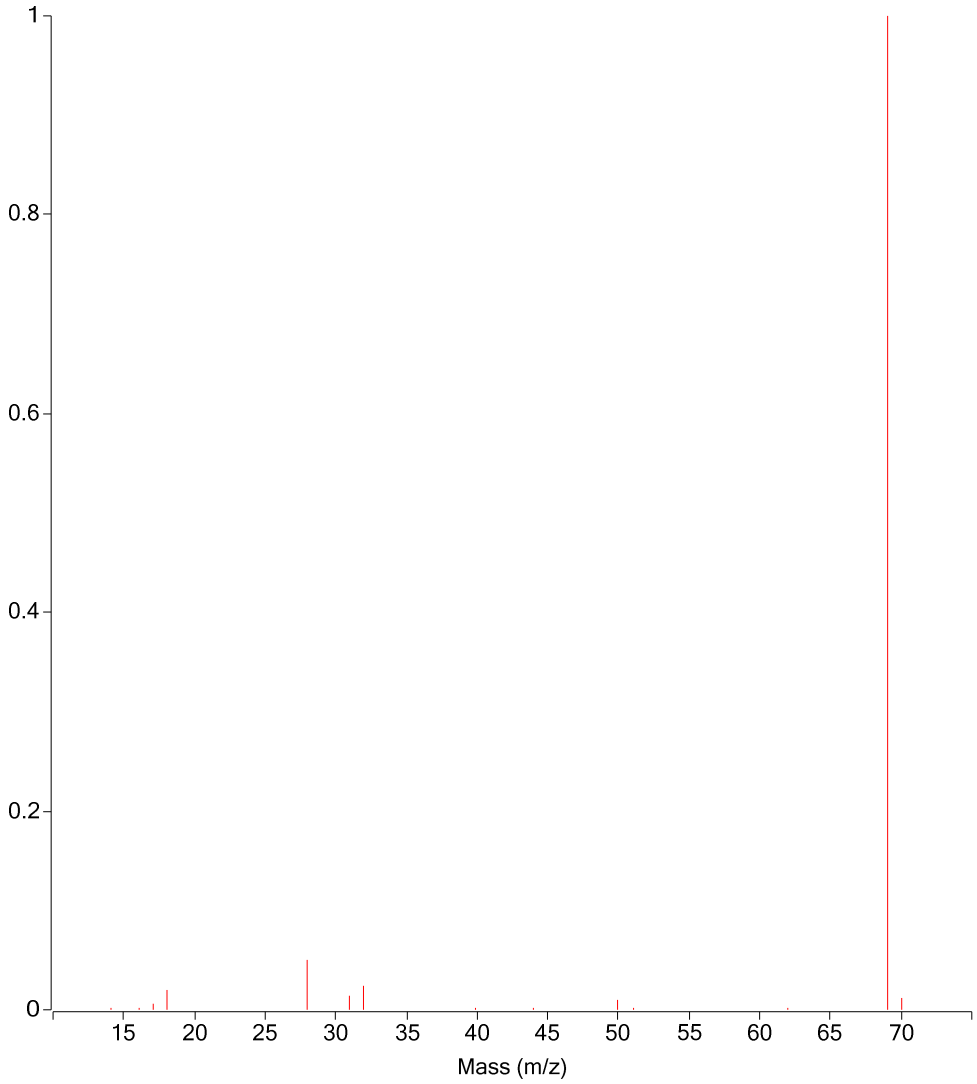
Repeller maximum 35 volts using ion 219; Gain Factor 0.8646

Mass Gain Values(Scan Speed): -363(3) -363(2) -343(1) -329(0) -276(FS1) -380(FS2)

TARGET MASS:	50	69	131	219	414	502	1050
Amu Offset	119.8	119.8	119.8	119.8	119.8	119.8	119.8
Entrance Lens Offset	11.2	11.2	11.2	11.2	11.2	11.2	11.2

597x Air and Water Check

Instrument: BCCL SD GCMS 3
Mon Jun 09 08:29:36 2025 D:\MassHunter\GCMS\1\5977\



Current Params used: atune.u

Relative abundances:

18/69 =	2.10	Water%	(counts=51424)
28/69 =	4.99	Nitrogen%	(counts=122056)
32/69 =	2.47	Oxygen%	(counts=60488)
44/69 =	0.22	Carbon Dioxide%	(counts=5308)
28/18 =	237.35	Nitrogen/Water%	

Instrument Name : BCCL SD GCMS 3
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	501.92	OK
Position of isotope mass 70	70.00	OK
Position of isotope mass 220	219.99	OK
Position of isotope mass 503	502.92	OK
Ratio of mass 70 to mass 69(0.5 - 1.6%)	1.09	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	56.81	OK
Ratio of 502 to 69 should be > 2.4% and is	4.57	OK
Mass 69 Precursor (<= 3%)	0.08	OK
Mass 219 Precursor (<= 6%)	0.30	OK
Mass 502 Precursor (<= 12%)	1.47	OK

597x Air and Water Check
Mon Jun 09 08:40:01 2025 Instrument: BCCL SD GCMS 3
D:\MASSHUNTER\GCMS\1\5977\atune.u US1329M205

Testing for a leak in the system

Ratio of 18 to 69 (<20%)	1.47	OK
Ratio of 28 to 69 (<10%)	3.05	OK
Electron Multiplier Voltage	1876	OK

Tune portion of System Verification passed.

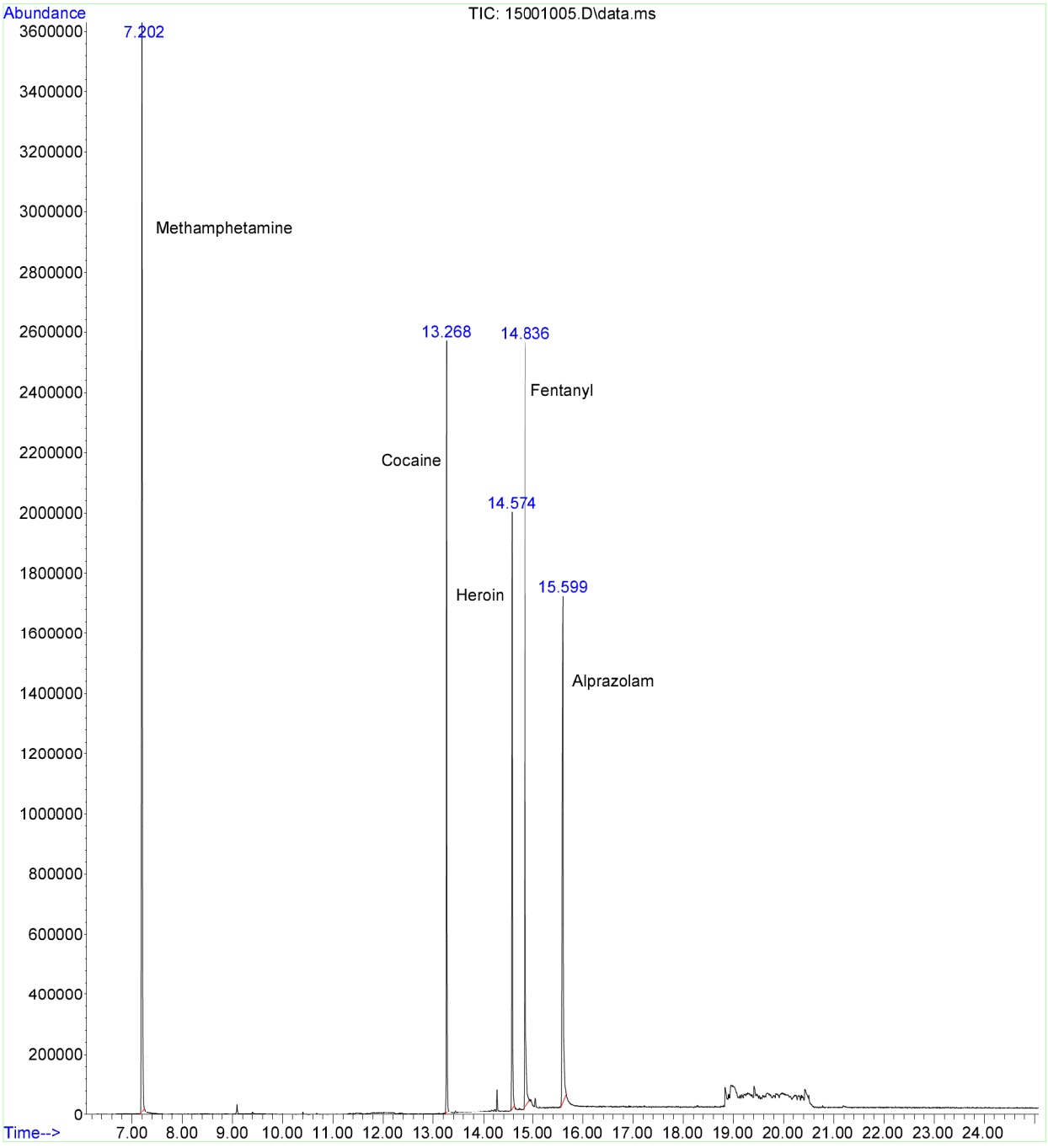
BCCL GC/MS #3
Retention Times for the Week of:

06/09/2025 - 06/10/2025

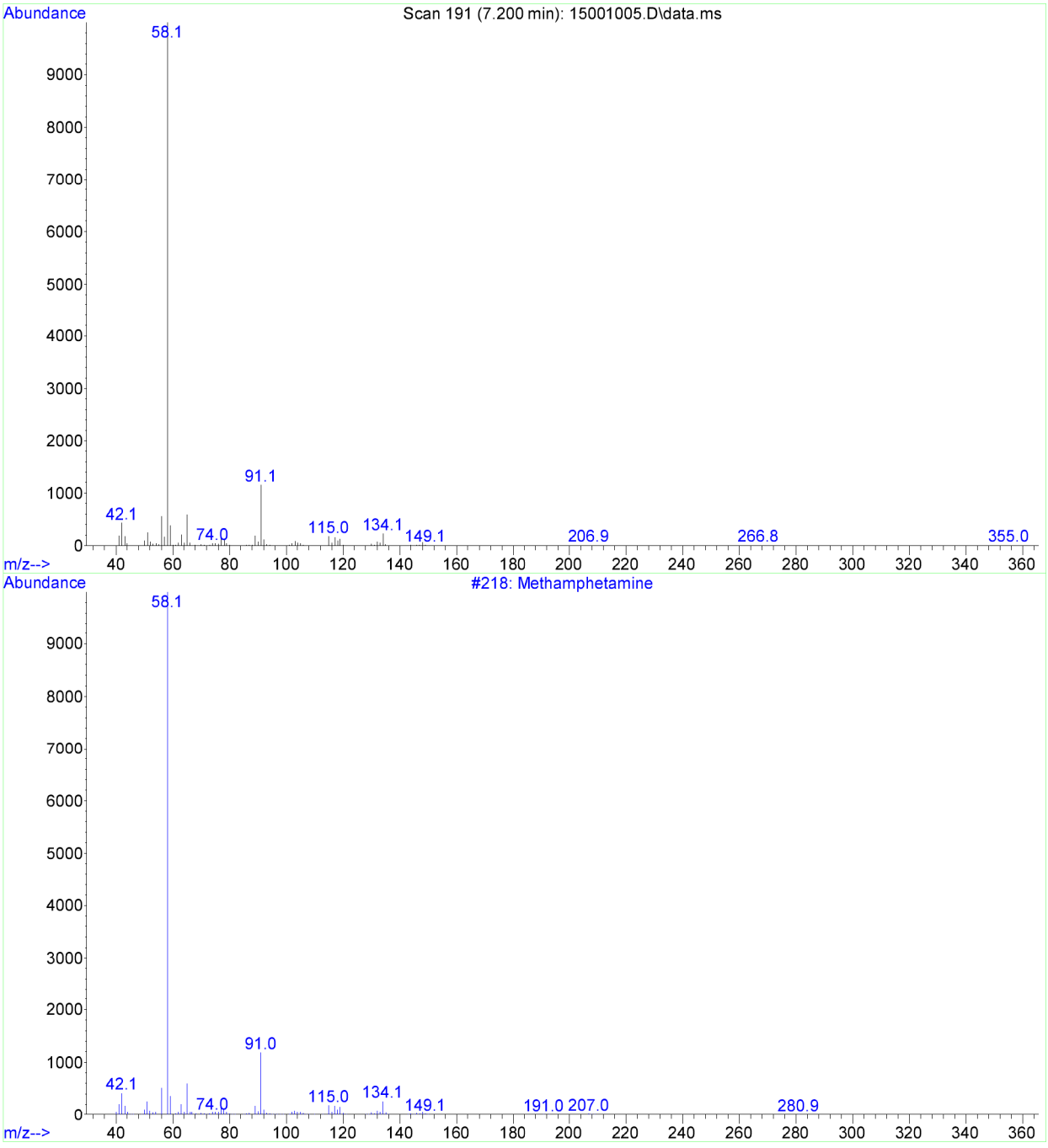
[X] **Tune: DS 06/09/2025 - Autotune**

Standard	Standard #	Method	Retention Time	1% Window	
Methamphetamine	R-24-060	DrugTest35	7.202	7.129	7.274
Cocaine	R-24-060	DrugTest35	13.268	13.135	13.400
Heroin	R-24-060	DrugTest35	14.574	14.428	14.719
Fentanyl	R-24-060	DrugTest35	14.836	14.687	14.984
Alprazolam	R-24-060	DrugTest35	15.599	15.443	15.754

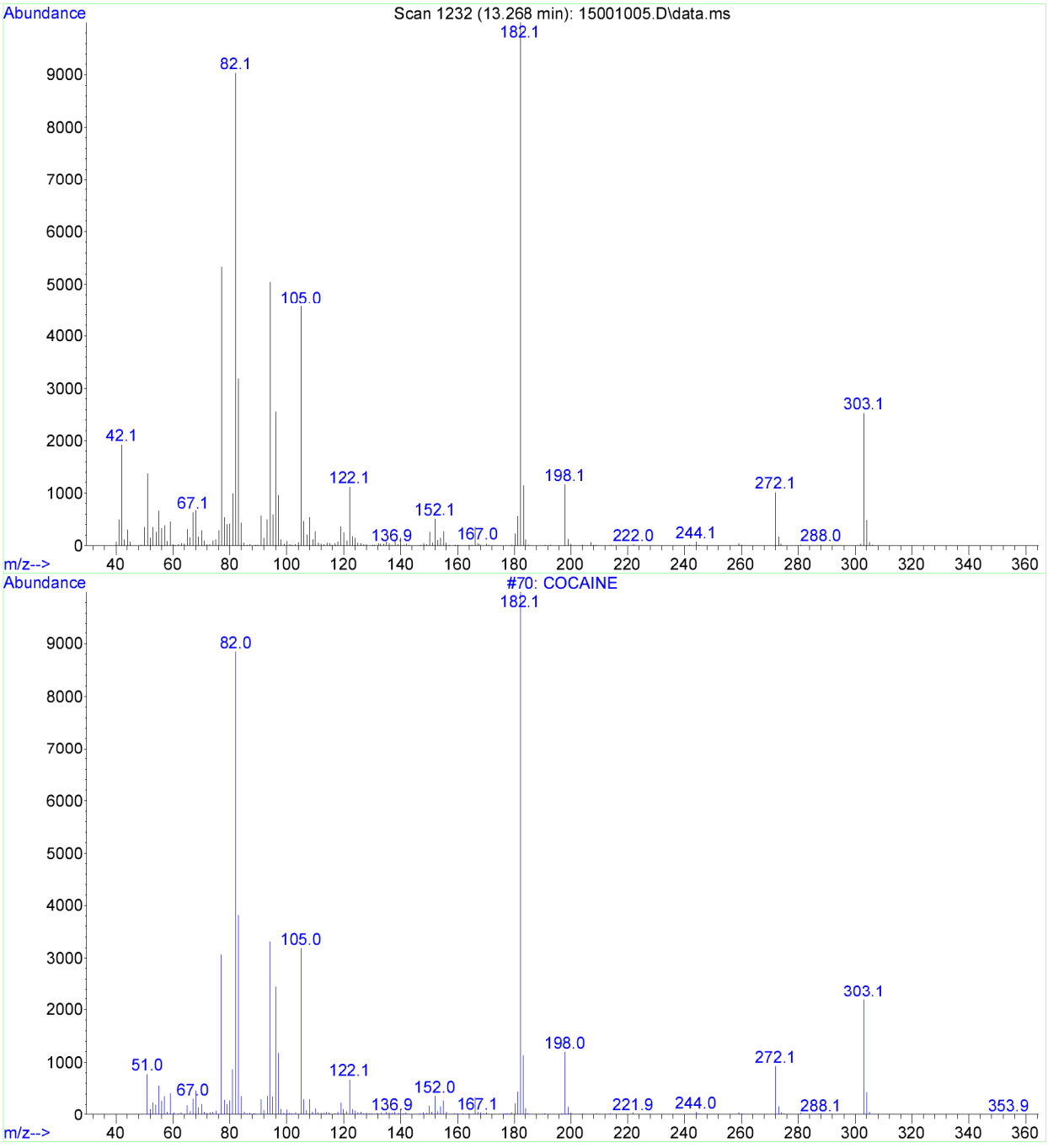
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File       :D:\MassHunter\GCMS\1\GCMS 3 data\Standards\Weekly Check\2025
...          Data\060925\15001005.D
Operator   : DrugChem-HP\admin
Instrument :   BCCL SD GCMS 3
Acquired   : 09 Jun 2025  10:14     using AcqMethod DrugTest35.M
Sample Name: CAYMAN GC/MS MIX 3 (R-24-060)                  000002667
Misc Info  :                                                000002667
```



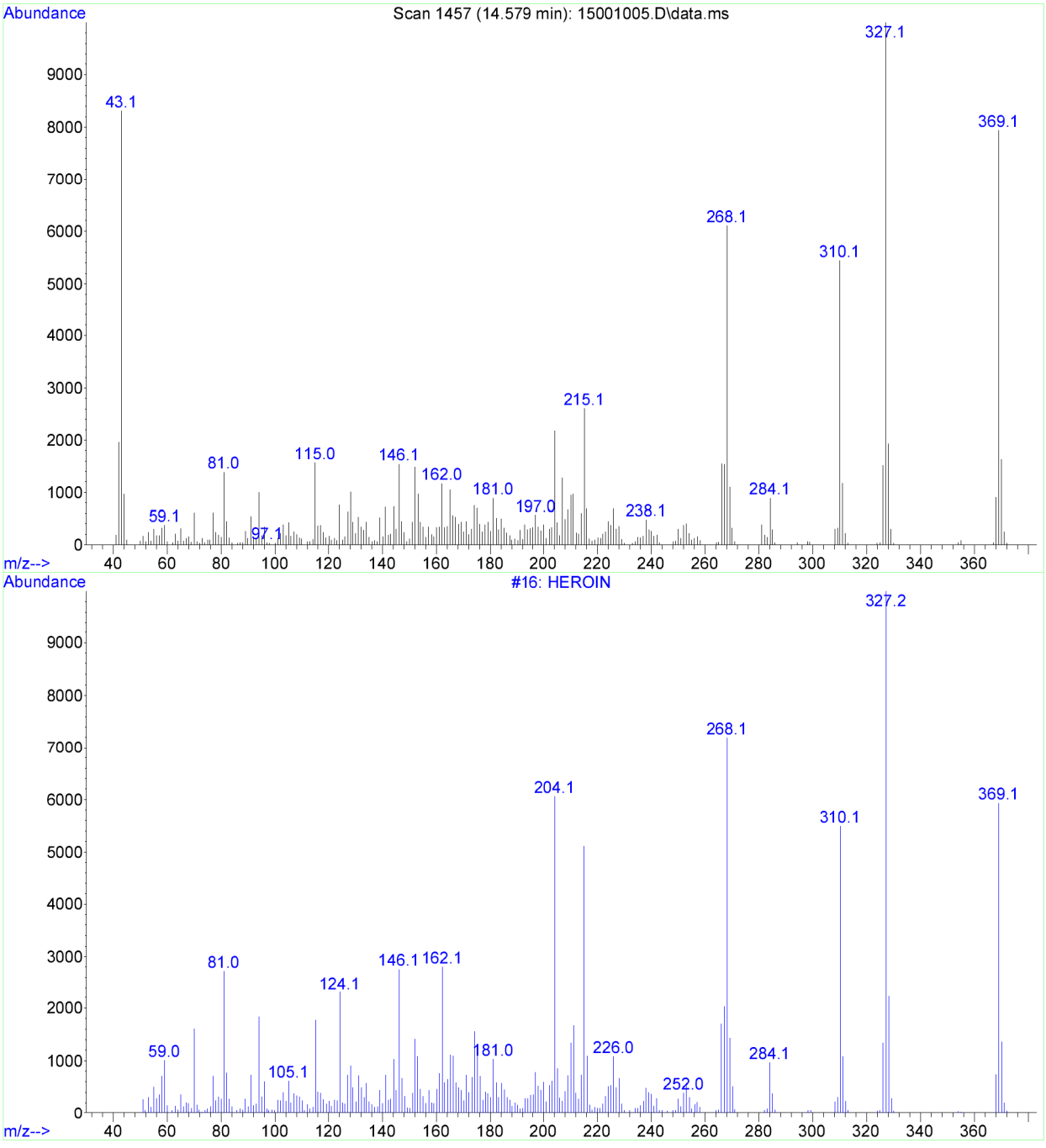
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File       :D:\MassHunter\GCMS\1\GCMS 3 data\Standards\Weekly Check\2025
...          Data\060925\15001005.D
Operator   : DrugChem-HP\admin
Instrument :   BCCL SD GCMS 3
Acquired   : 09 Jun 2025  10:14     using AcqMethod DrugTest35.M
Sample Name: CAYMAN GC/MS MIX 3 (R-24-060)                  000002667
Misc Info  :                                                000002667
```



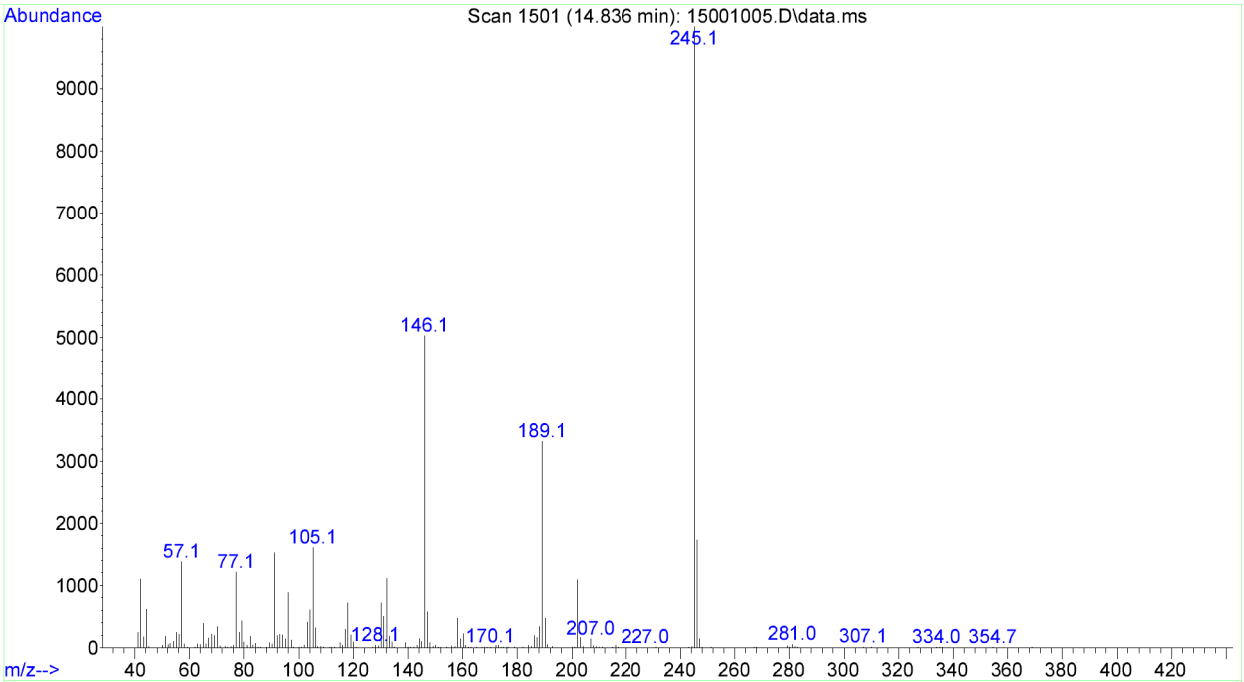
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...          Data\060925\15001005.D
Operator   : DrugChem-HP\admin
Instrument :   BCCL SD GCMS 3
Acquired   : 09 Jun 2025  10:14     using AcqMethod DrugTest35.M
Sample Name: CAYMAN GC/MS MIX 3 (R-24-060)                  000002667
Misc Info  :                                                000002667
```

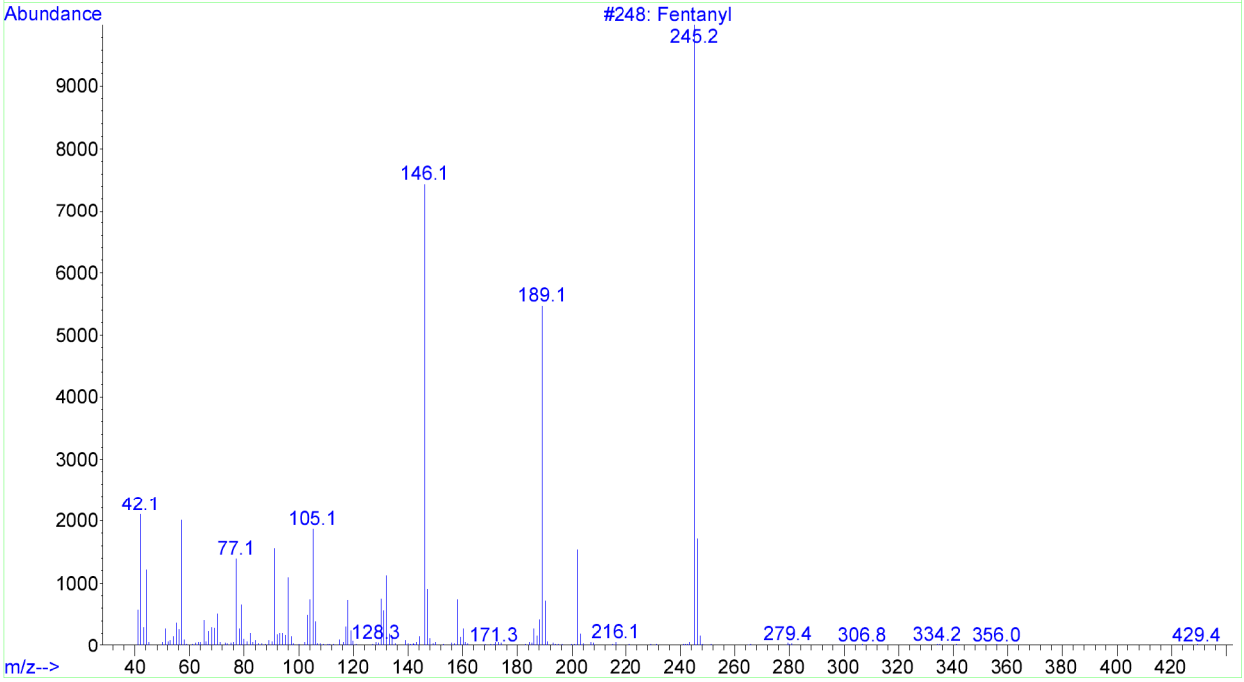


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File       :D:\MassHunter\GCMS\1\GCMS 3 data\Standards\Weekly Check\2025
...          Data\060925\15001005.D
Operator   : DrugChem-HP\admin
Instrument :   BCCL SD GCMS 3
Acquired   : 09 Jun 2025  10:14     using AcqMethod DrugTest35.M
Sample Name: CAYMAN GC/MS MIX 3 (R-24-060)                  000002667
Misc Info  :                                                000002667
```

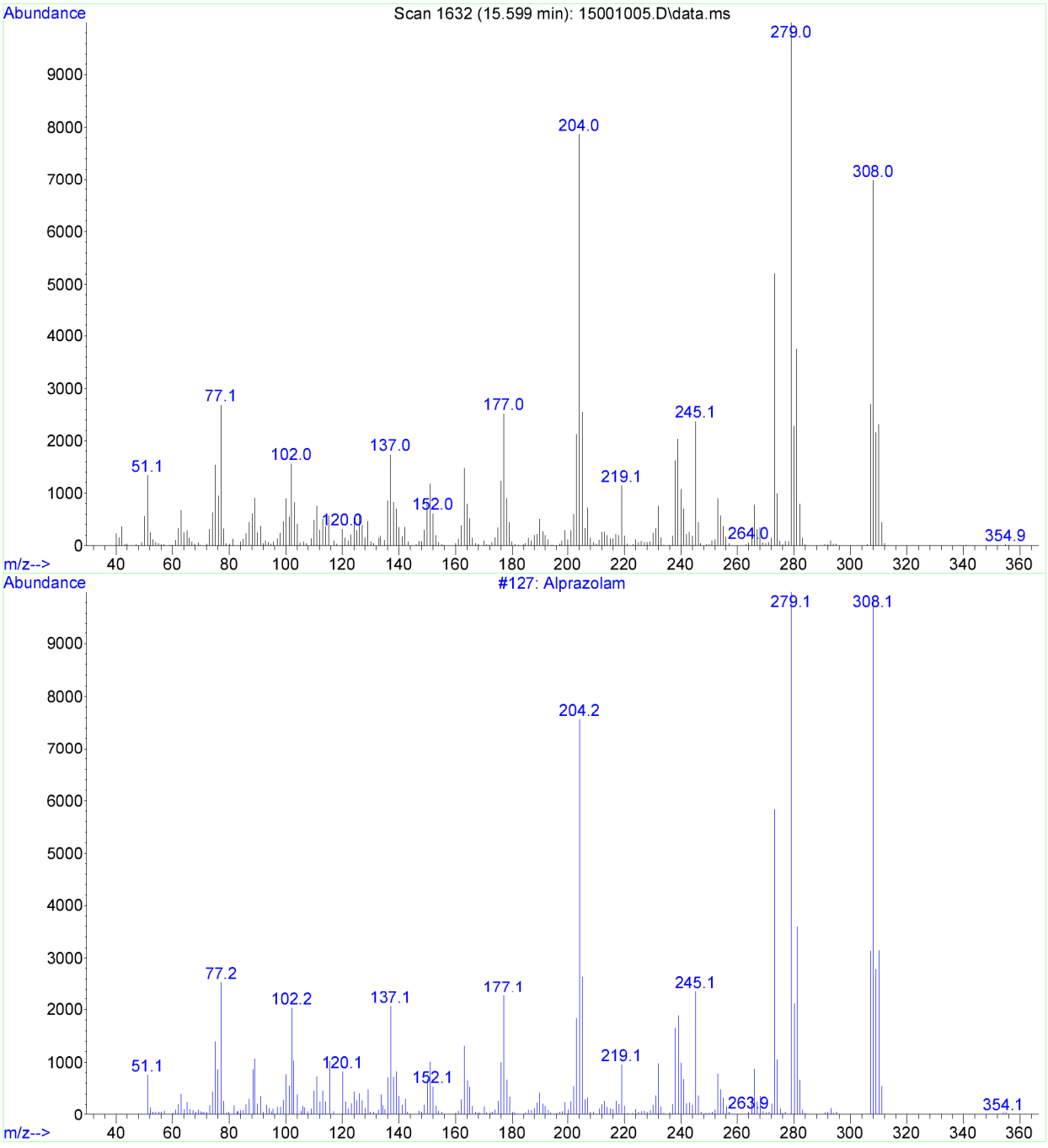


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File       :D:\MassHunter\GCMS\1\GCMS 3 data\Standards\Weekly Check\2025
...          Data\060925\15001005.D
Operator   : DrugChem-HP\admin
Instrument :   BCCL SD GCMS 3
Acquired   : 09 Jun 2025  10:14     using AcqMethod DrugTest35.M
Sample Name: CAYMAN GC/MS MIX 3 (R-24-060)                  000002667
Misc Info  :                                                000002667
```

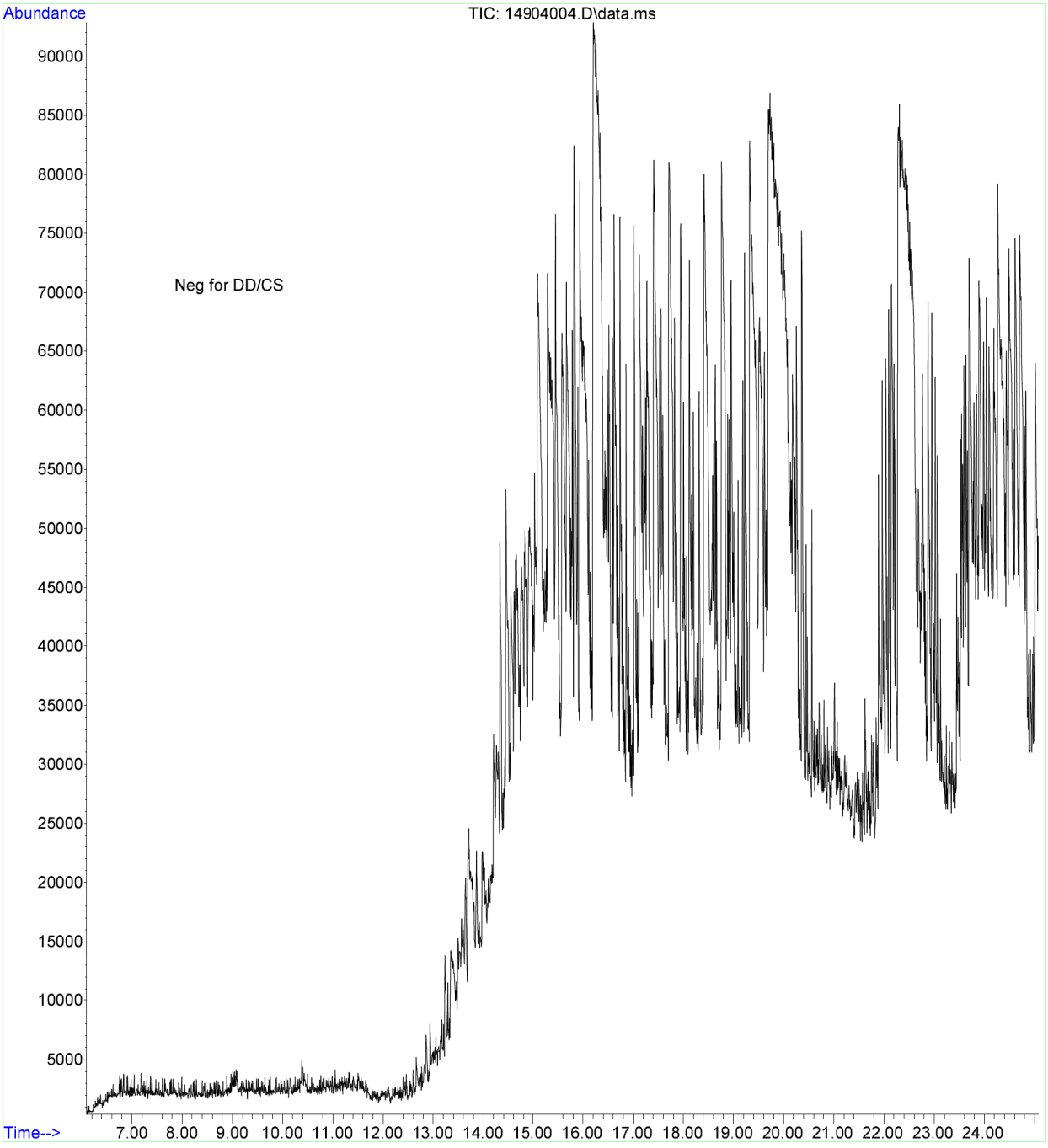




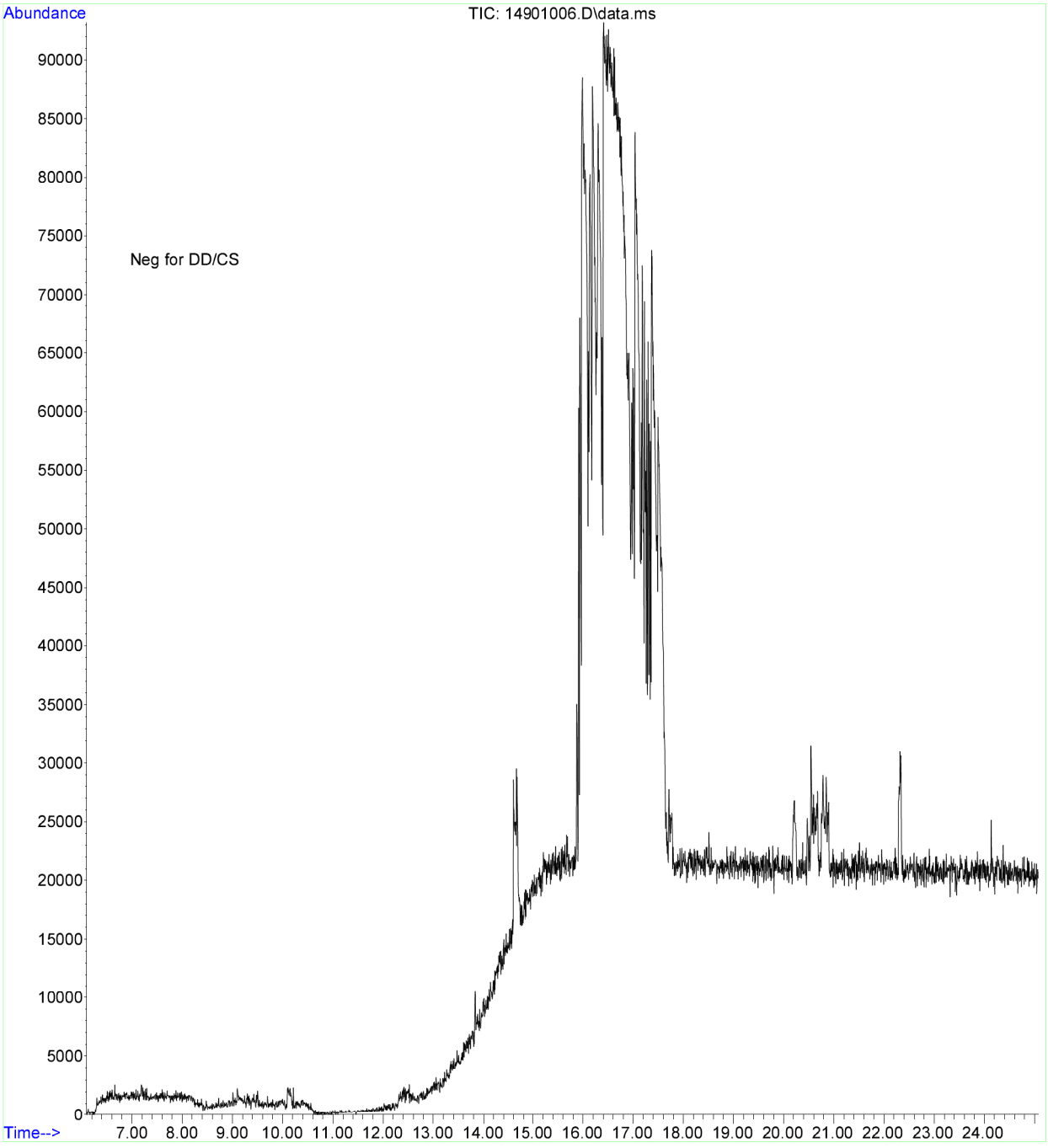
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...          Data\060925\15001005.D
Operator   : DrugChem-HP\admin
Instrument :   BCCL SD GCMS 3
Acquired   : 09 Jun 2025  10:14     using AcqMethod DrugTest35.M
Sample Name: CAYMAN GC/MS MIX 3 (R-24-060)                  000002667
Misc Info  :                                                000002667
```



```
File       :D:\MassHunter\GCMS\1\GCMS 3 data\Standards\Weekly Check\2025
...          Data\060925\14904004.D
Operator   : DrugChem-HP\admin
Instrument :   BCCL SD GCMS 3
Acquired   : 09 Jun 2025  09:46     using AcqMethod DrugTest35.M
Sample Name: BLANK (C-19-0068) PRIOR TO CAYMAN GC/MS MIX 3 (R-24-060)  000002666
Misc Info  :                                                  000002666
```



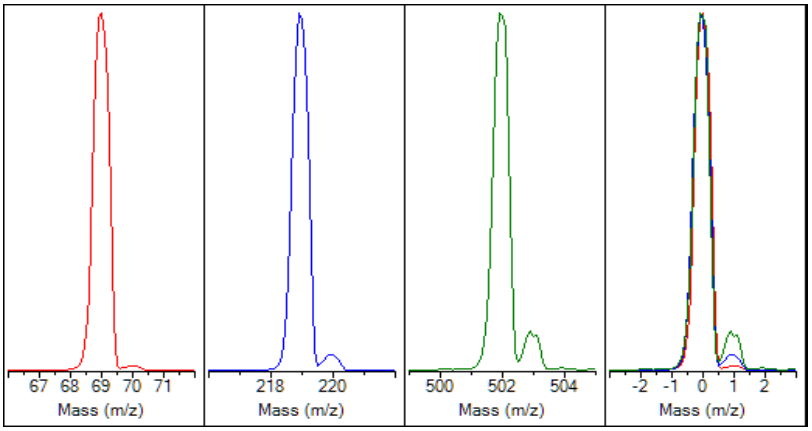
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...          Data\060925\14901006.D
Operator   : DrugChem-HP\admin
Instrument :   BCCL SD GCMS 3
Acquired   : 09 Jun 2025  10:43     using AcqMethod DrugTest35.M
Sample Name: BLANK (C-19-0068) - INSTRUMENT READY          000002666
Misc Info  :                                               000002666
```



Autotune - 5977

6/11/2025 5:59:05 PM (UTC-5:00) BCCL SD GCMS 3

D:\MASSHUNTER\GCMS\1\5977\atune.u US1329M205



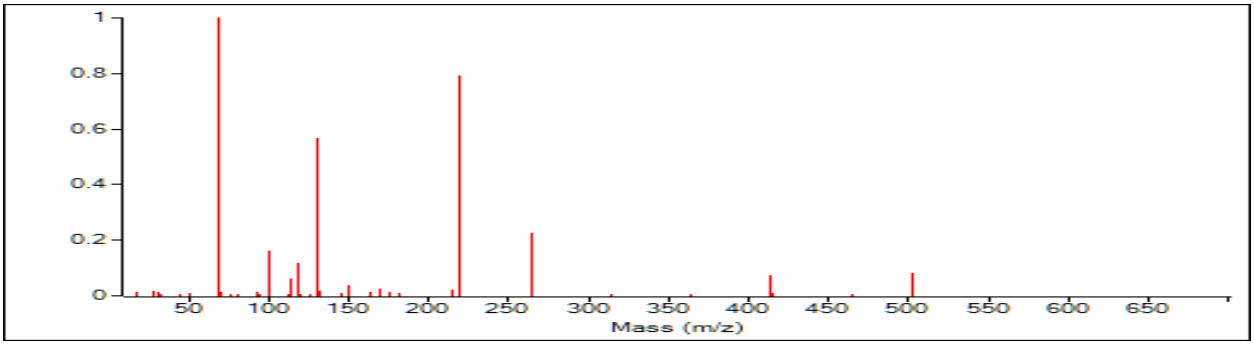
Ion Polarity	Pos	Mass Gain	-362
Emission	34.6	Mass Offset	-35
Electron Energy	70.0	Amu Gain	1684
Filament	1	Amu Offset	116.88
Repeller	33.90	Width219	-0.012
Ion Focus	90.3	DC Polarity	Pos
Entrance Lens	20.2	HED Enable	On
Ent Lens Offset	13.23	EM Volts	1782.3
Ion Body	0.00	Extractor Lens	0.00
		Scan Speed	3
		Averages	3
PFTBA	Open	Step Size	0.10

Temperatures and Pressures

MS Source	230	Turbo Speed	100.0
MS Quad	150	Hi Vac	9.81e-06

Mass	Abund	Rel Abund	Pw50
69.00	342,993	100.0%	0.61
218.90	275,791	80.4%	0.61
501.90	27,168	7.9%	0.58

Low	High	Step	Speed	Threshold	Peaks	Base	Abundance	Total Ion
10.00	701.00	0.10	3	100	97	69.00	336,512	1,155,646



Mass	Abund	Rel Abund	Iso Mass	Iso Abund	Iso Ratio
69.00	336,512	100.00	70.00	3,716	1.10
219.00	266,112	79.08	220.00	11,741	4.41
502.00	26,624	7.91	503.00	2,660	9.99

Air/Water Check: H20 ~1.1% N2 ~1.6% O2 ~0.4% CO2 ~0.4% N2/H20 ~143.8%

Column(1) Flow: 0.80 Column(2): 0.00 ml/min Interface Temp: 280

Ramp Criteria:

Ion Focus maximum 90 volts using ion 502; Electron Multiplier Gain 50477.730

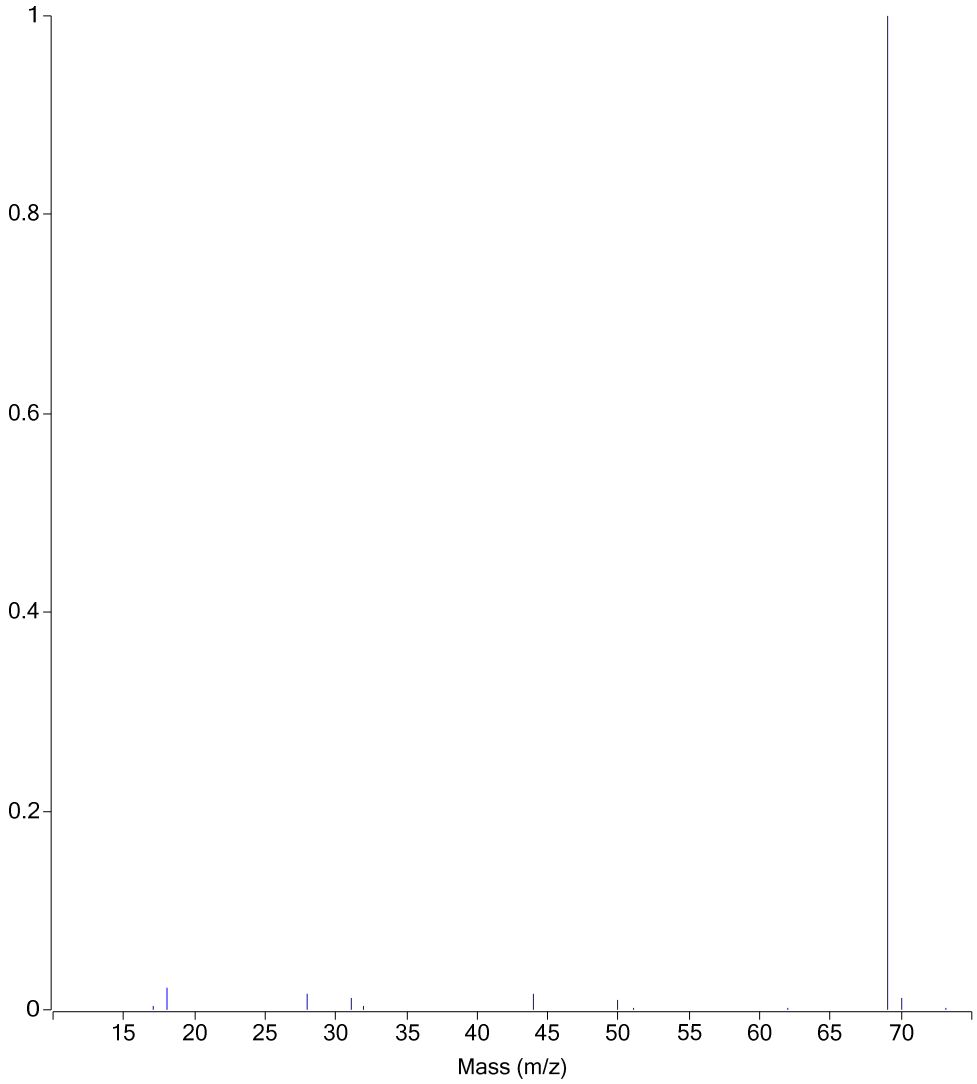
Repeller maximum 35 volts using ion 219; Gain Factor 0.5048

Mass Gain Values(Scan Speed): -358(3) -358(2) -341(1) -323(0) -270(FS1) -356(FS2)

TARGET MASS:	50	69	131	219	414	502	1050
Amu Offset	116.9	116.9	116.9	116.9	116.9	116.9	116.9
Entrance Lens Offset	13.2	13.2	13.2	13.2	13.2	13.2	13.2

597x Air and Water Check

Instrument: BCCL SD GCMS 3
Wed Jun 11 17:54:17 2025 D:\MassHunter\GCMS\1\5977\



Current Params used: atune.u

Relative abundances:

18/69 =	2.27	Water%	(counts=12828)
28/69 =	1.60	Nitrogen%	(counts=9027)
32/69 =	0.39	Oxygen%	(counts=2208)
44/69 =	1.64	Carbon Dioxide%	(counts=9258)
28/18 =	70.37	Nitrogen/Water%	

Instrument Name : BCCL SD GCMS 3
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	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%)	1.12	OK
Ratio of mass 220 to mass 219(3.2 - 5.4%)	4.35	OK
Ratio of mass 503 to mass 502(7.9 - 12.3%)	10.01	OK
Ratio of 219 to 69 should be > 40% and is	79.50	OK
Ratio of 502 to 69 should be > 2.4% and is	7.68	OK
Mass 69 Precursor (<= 3%)	0.22	OK
Mass 219 Precursor (<= 6%)	0.85	OK
Mass 502 Precursor (<= 12%)	0.82	OK

597x Air and Water Check
Wed Jun 11 18:01:59 2025 Instrument: BCCL SD GCMS 3
D:\MASSHUNTER\GCMS\1\5977\atune.u US1329M205

Testing for a leak in the system

Ratio of 18 to 69 (<20%)	1.40	OK
Ratio of 28 to 69 (<10%)	1.82	OK
Electron Multiplier Voltage	1782	OK

Tune portion of System Verification passed.

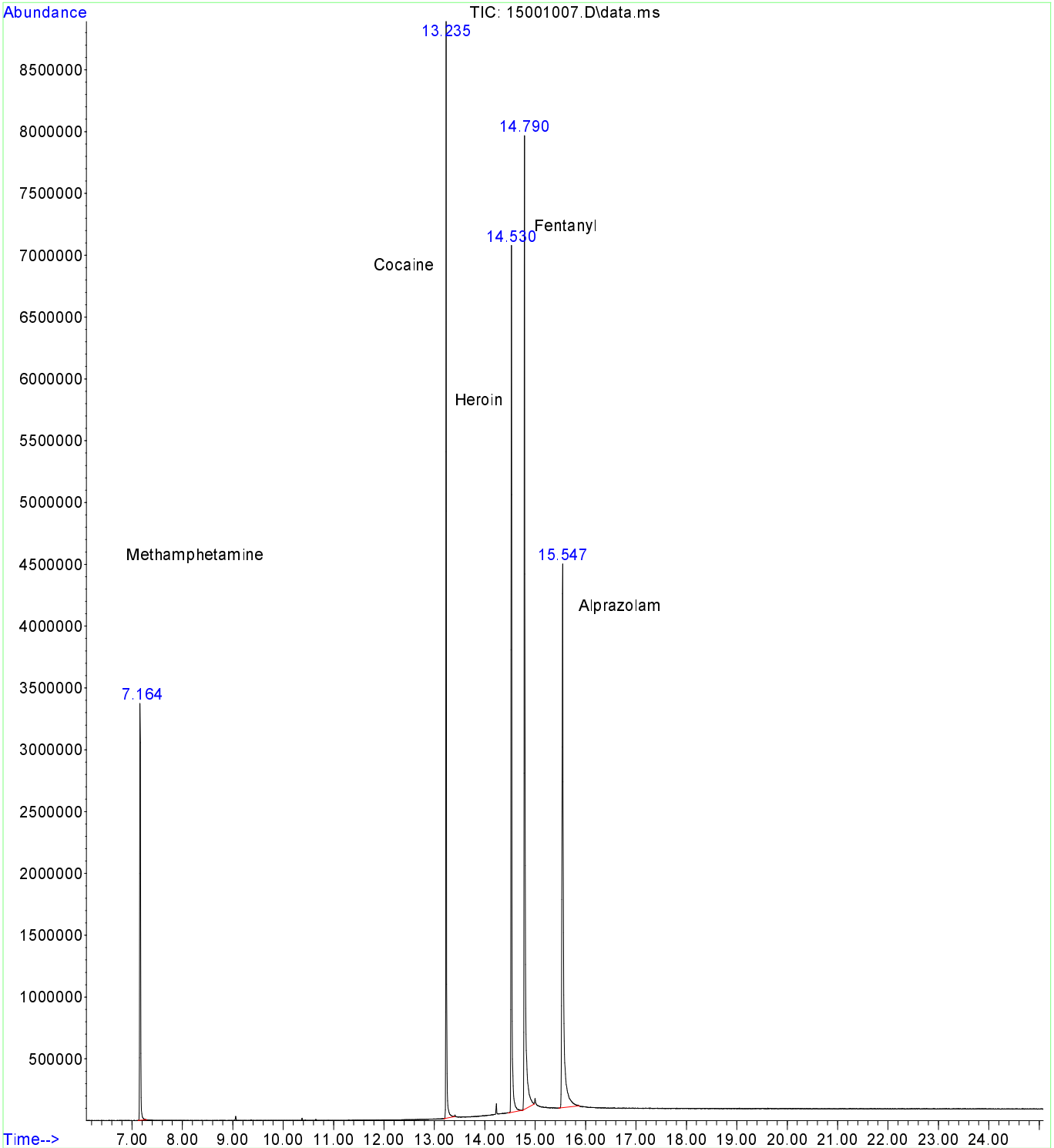
BCCL GC/MS #3
Retention Times for the Week of:

06/11/2025 - 06/15/2025

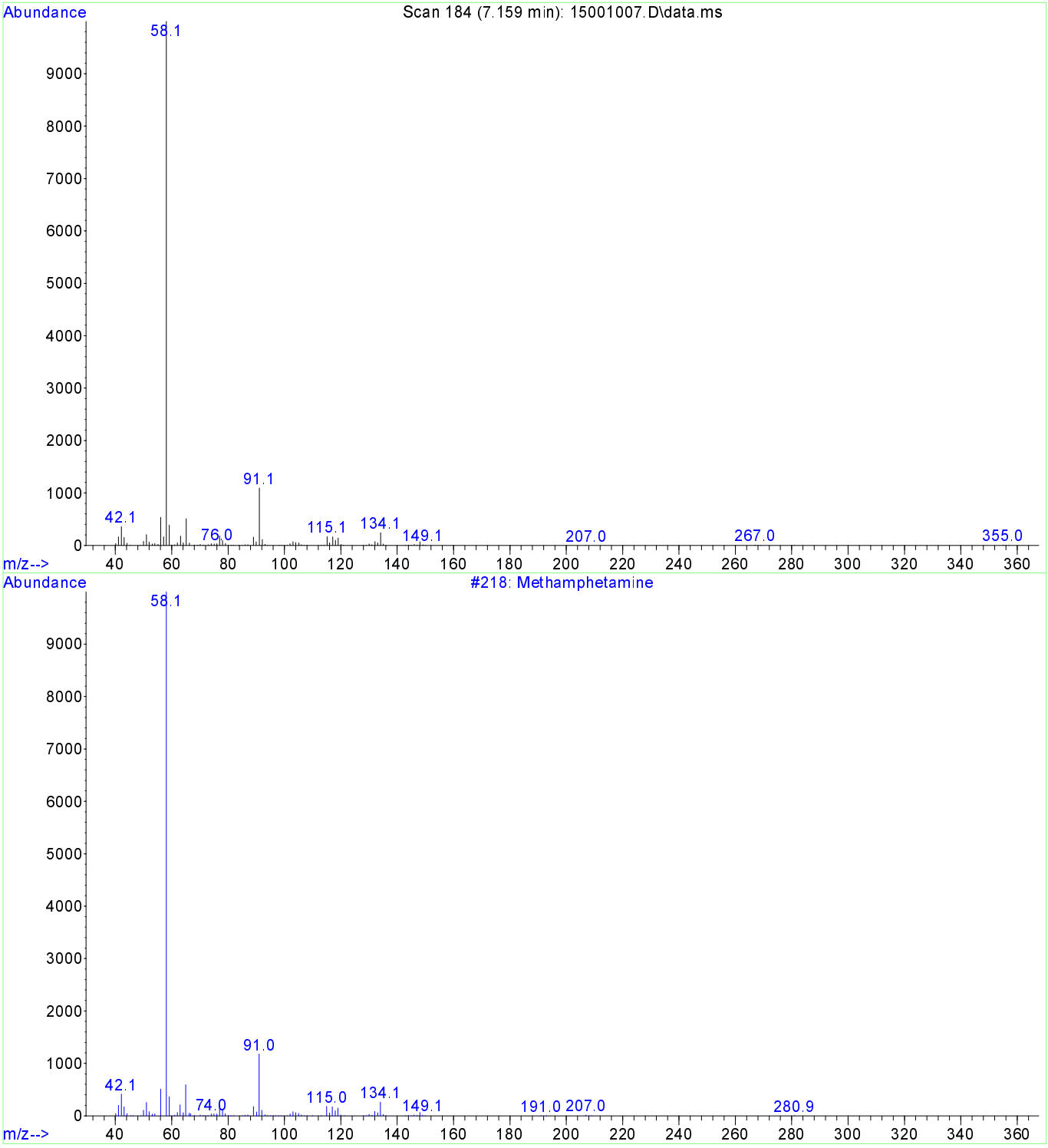
[X] **Tune: DS 06/11/2025 - Autotune**

Standard	Standard #	Method	Retention Time	1% Window	
Methamphetamine	R-24-060	DrugTest35	7.164	7.092	7.235
Cocaine	R-24-060	DrugTest35	13.235	13.102	13.367
Heroin	R-24-060	DrugTest35	14.530	14.384	14.675
Fentanyl	R-24-060	DrugTest35	14.790	14.642	14.937
Alprazolam	R-24-060	DrugTest35	15.547	15.391	15.702

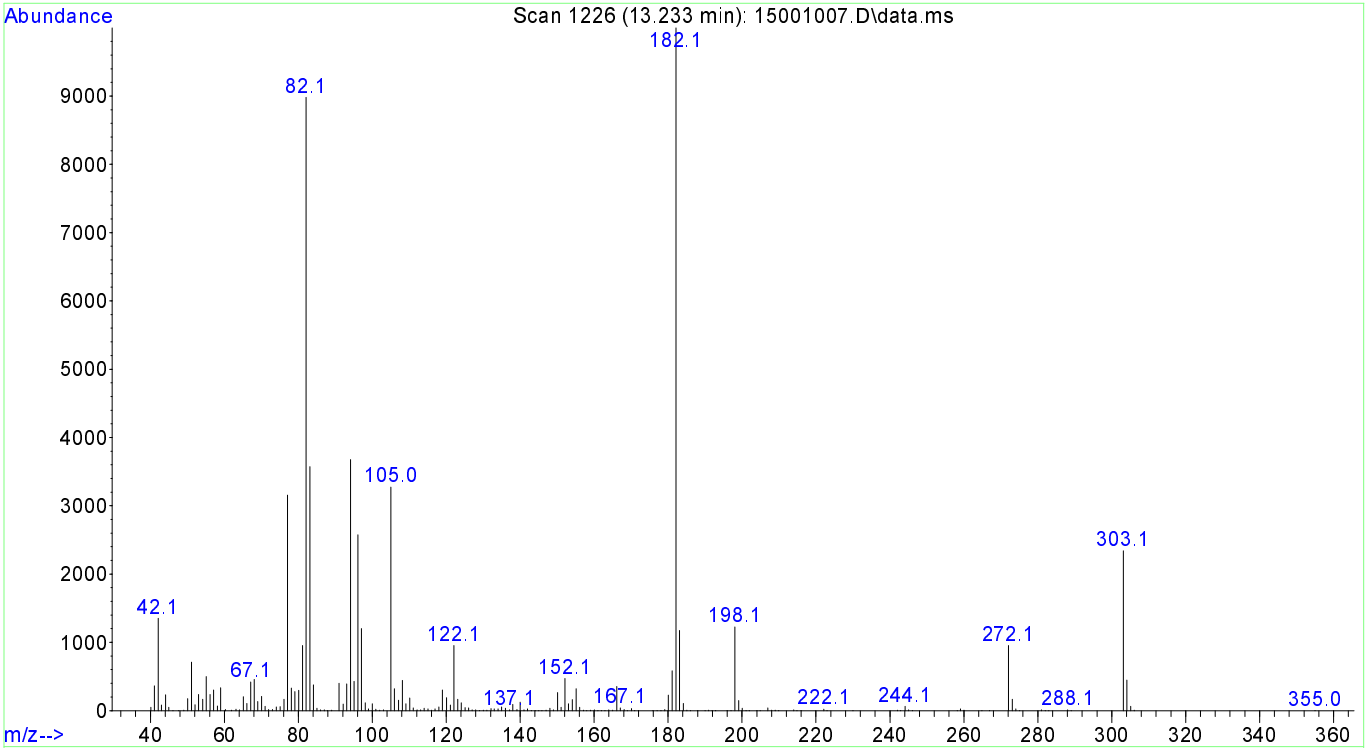
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File       :D:\MassHunter\GCMS\1\GCMS 3 data\Standards\Weekly Check\2025
...          Data\061125\15001007.D
Operator   : DrugChem-HP\admin
Instrument :   BCCL SD GCMS 3
Acquired   : 11 Jun 2025  20:19     using AcqMethod DrugTest35.M
Sample Name: CAYMAN GC/MS MIX 3 (R-24-060)                    000002667
Misc Info  :                                                  ERR
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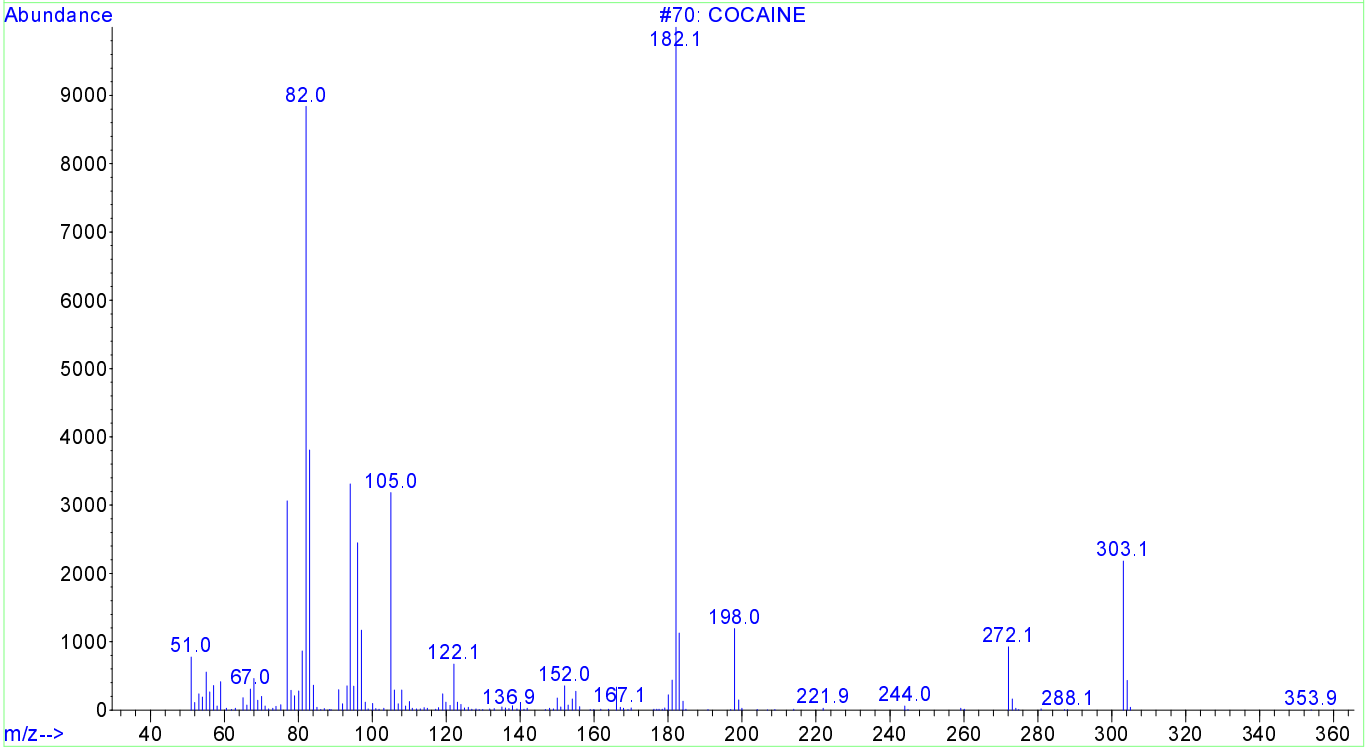


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... Data\061125\15001007.D
Operator : DrugChem-HP\admin
Instrument : BCCL SD GCMS 3
Acquired : 11 Jun 2025 20:19 using AcqMethod DrugTest35.M
Sample Name: CAYMAN GC/MS MIX 3 (R-24-060) 000002667
Misc Info : ERR

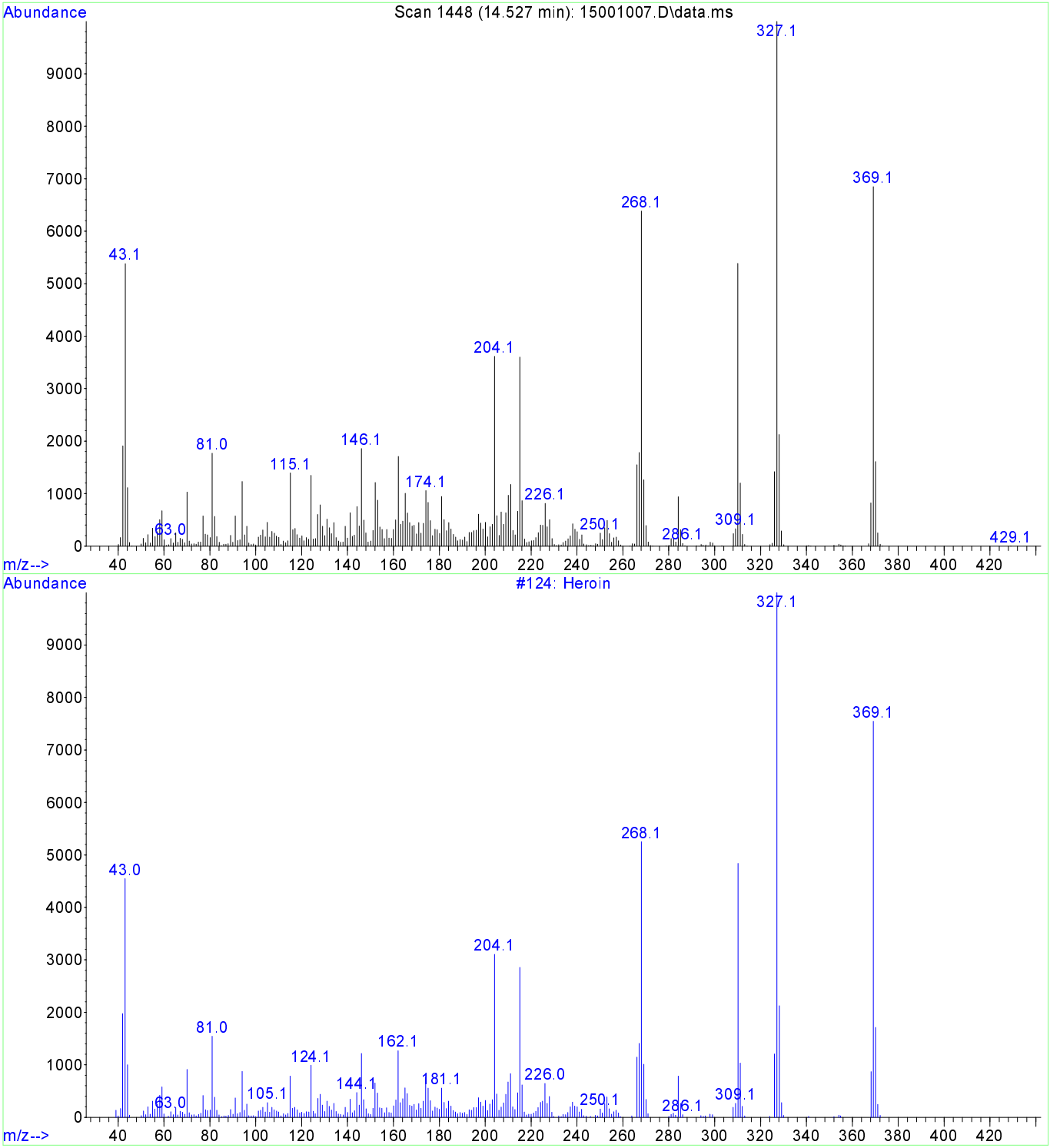


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... Data\061125\15001007.D
Operator : DrugChem-HP\admin
Instrument : BCCL SD GCMS 3
Acquired : 11 Jun 2025 20:19 using AcqMethod DrugTest35.M
Sample Name: CAYMAN GC/MS MIX 3 (R-24-060) 000002667
Misc Info : ERR

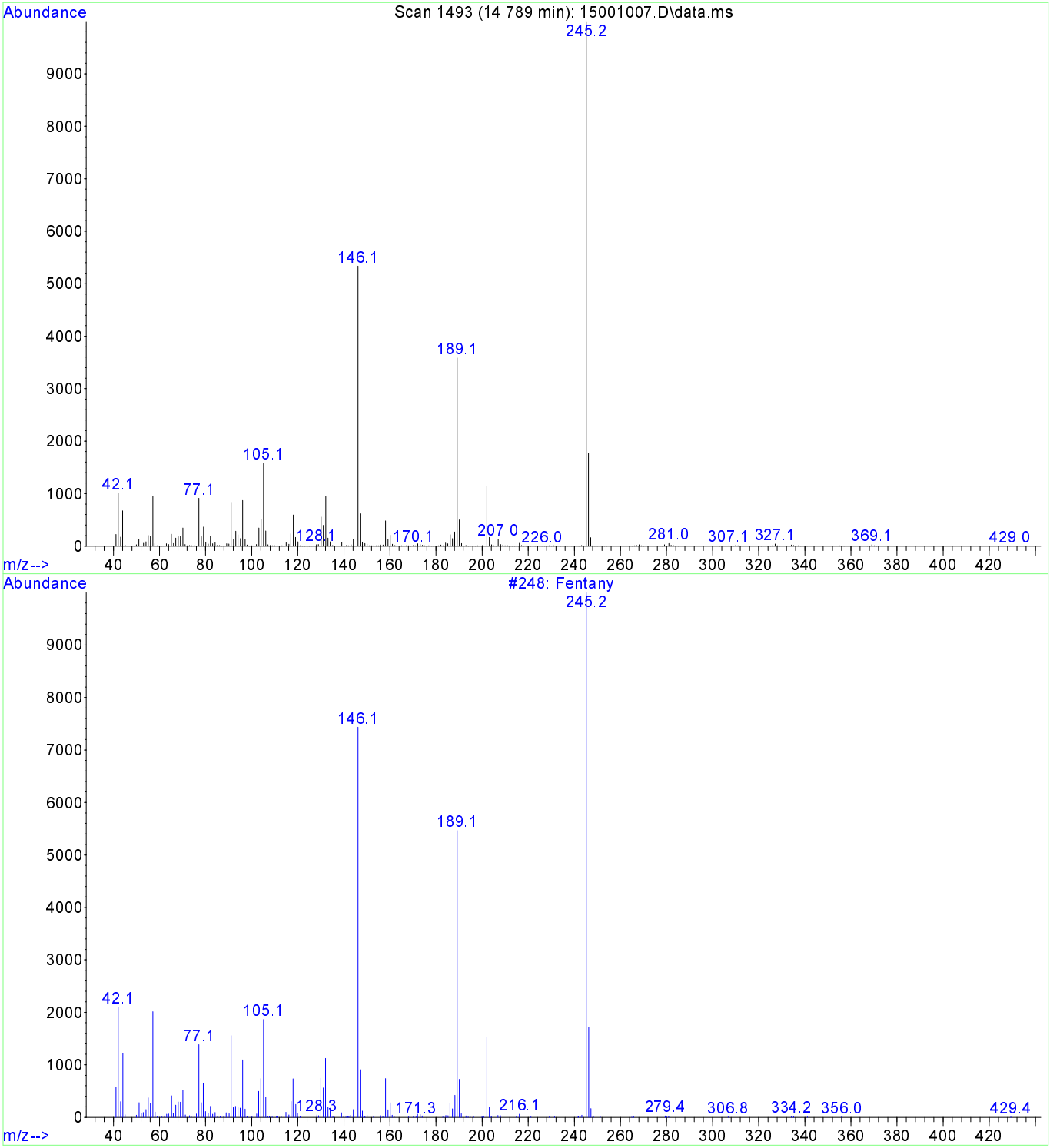




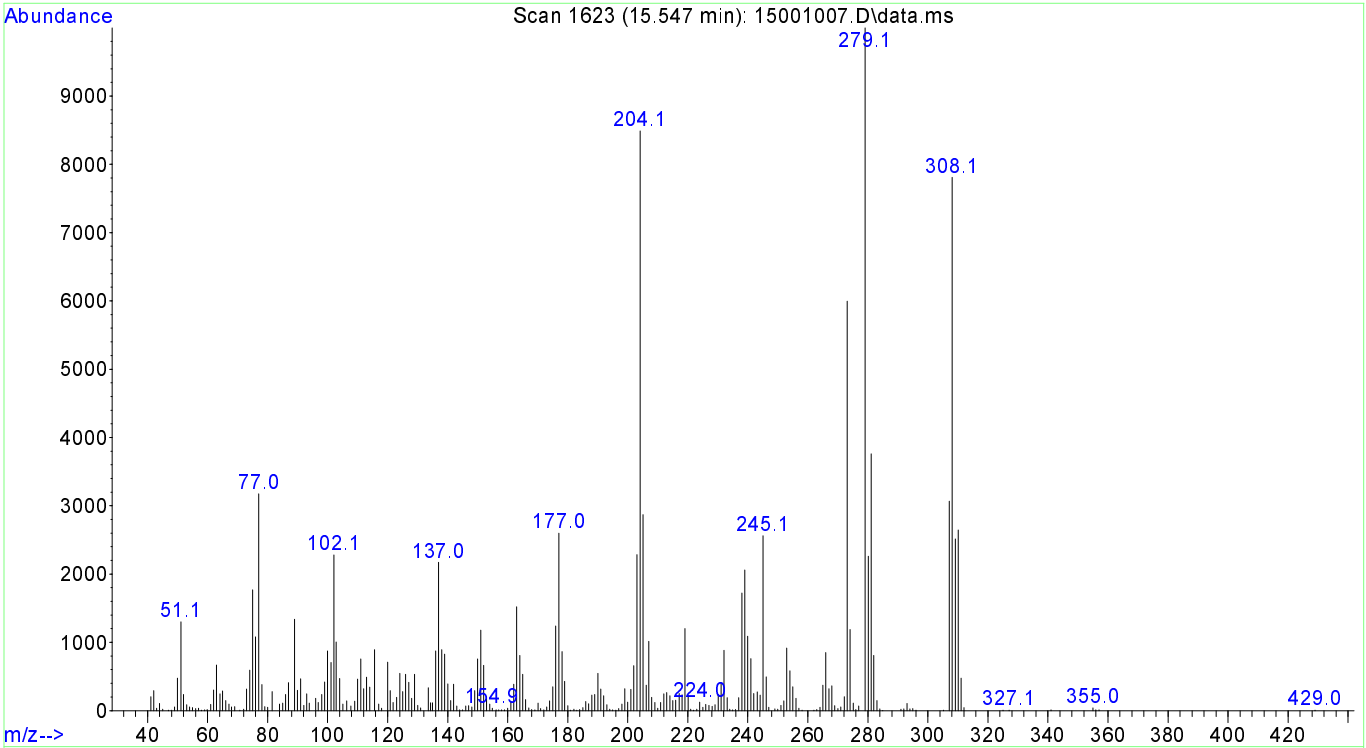
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...          Data\061125\15001007.D
Operator   : DrugChem-HP\admin
Instrument :   BCCL SD GCMS 3
Acquired   : 11 Jun 2025  20:19     using AcqMethod DrugTest35.M
Sample Name: CAYMAN GC/MS MIX 3 (R-24-060)                    000002667
Misc Info  :                                                  ERR
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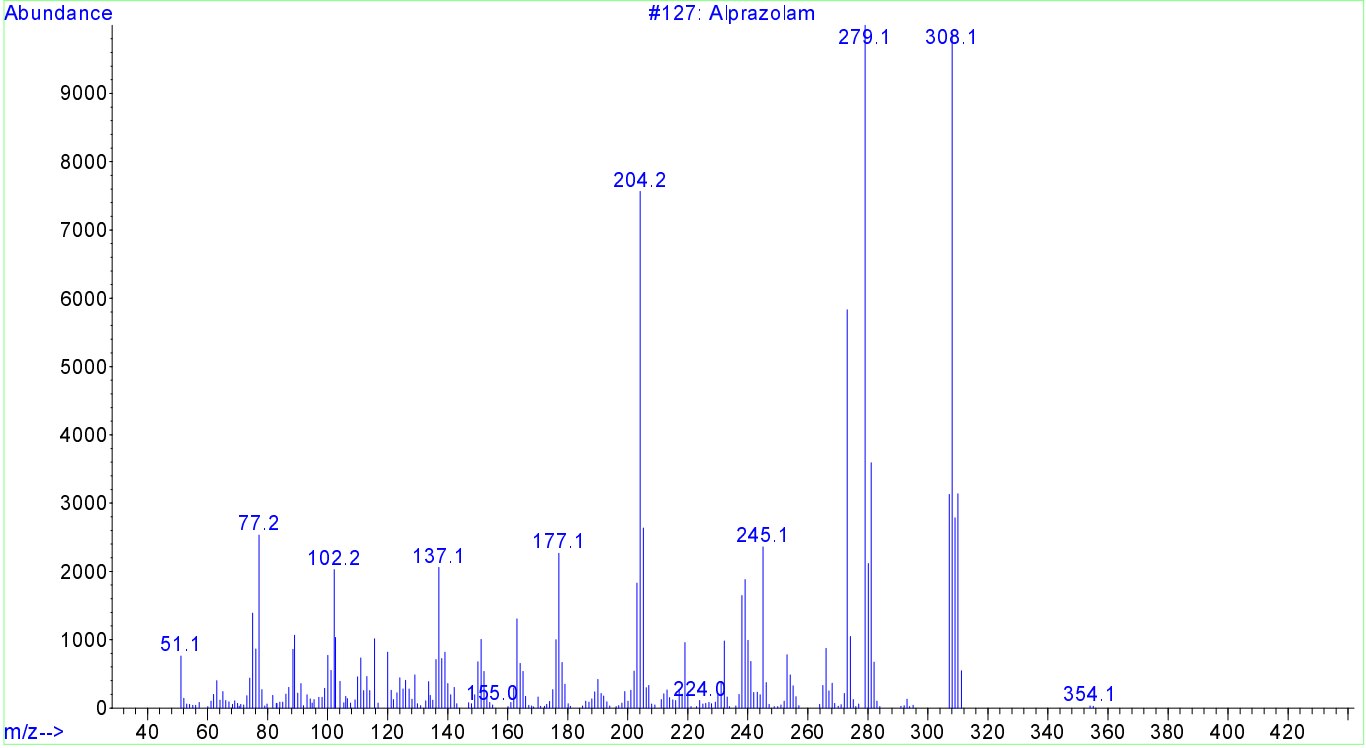


File :D:\MassHunter\GCMS\1\GCMS 3 data\Standards\Weekly Check\2025
... Data\061125\15001007.D
Operator : DrugChem-HP\admin
Instrument : BCCL SD GCMS 3
Acquired : 11 Jun 2025 20:19 using AcqMethod DrugTest35.M
Sample Name: CAYMAN GC/MS MIX 3 (R-24-060) 000002667
Misc Info : ERR

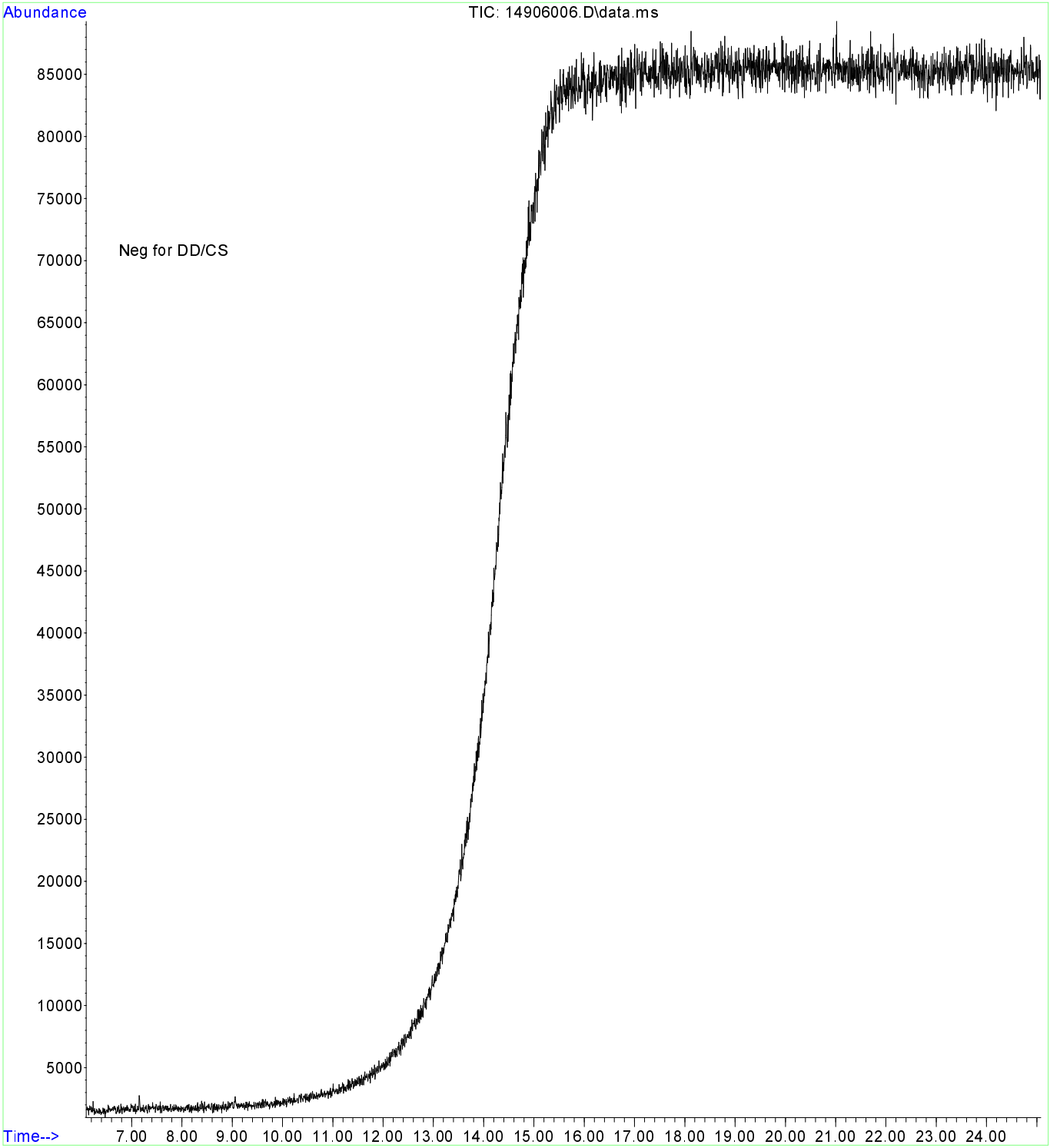


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File       :D:\MassHunter\GCMS\1\GCMS 3 data\Standards\Weekly Check\2025
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Operator   : DrugChem-HP\admin
Instrument :   BCCL SD GCMS 3
Acquired   : 11 Jun 2025  20:19     using AcqMethod DrugTest35.M
Sample Name: CAYMAN GC/MS MIX 3 (R-24-060)                    000002667
Misc Info  :                                                  ERR
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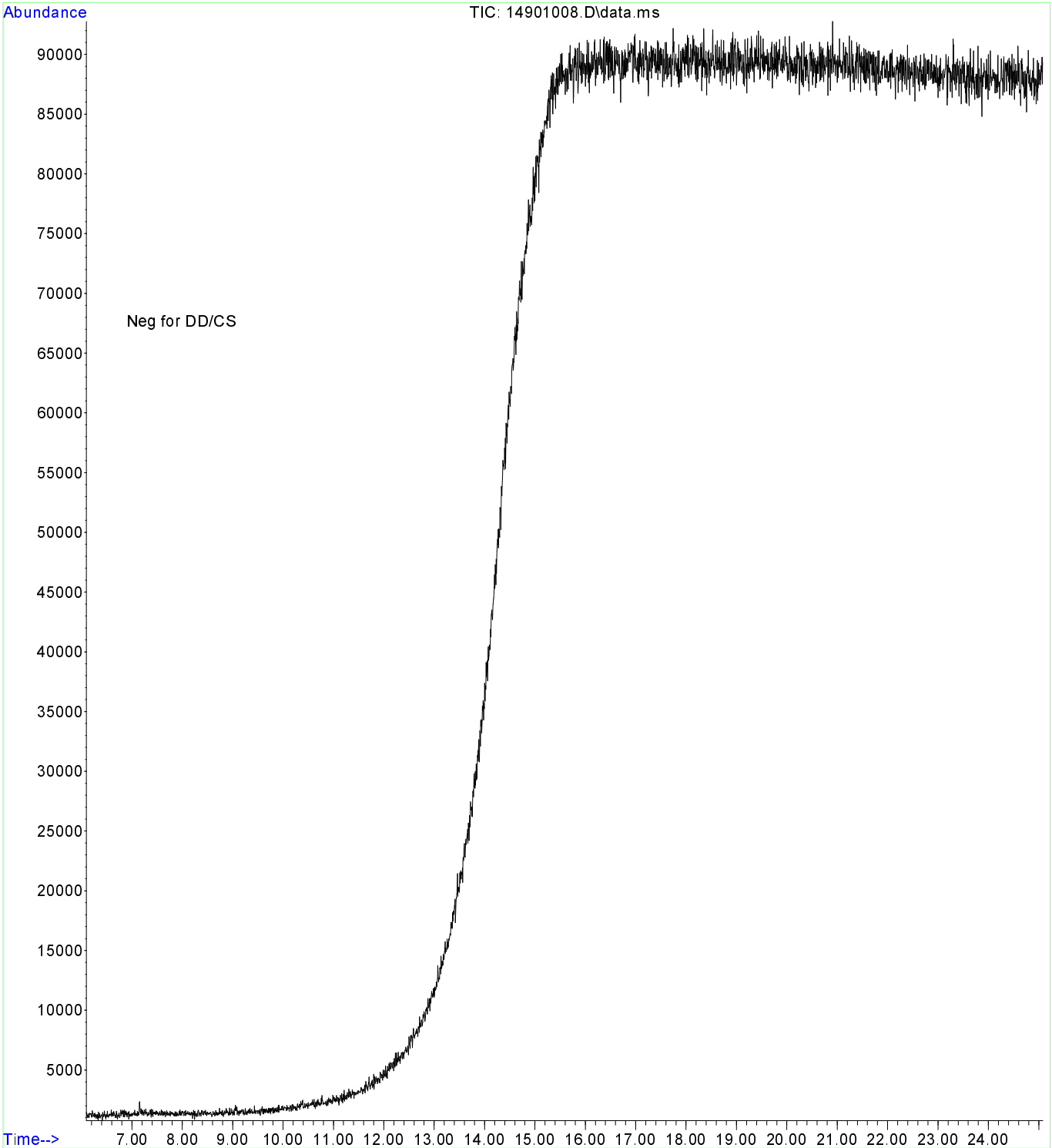




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Operator : DrugChem-HP\admin
Instrument : BCCL SD GCMS 3
Acquired : 11 Jun 2025 19:50 using AcqMethod DrugTest35.M
Sample Name: BLANK (C-19-0068) PRIOR TO CAYMAN GC/MS MIX 3 (R-24-060) 000002666
Misc Info : 000002666



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Operator   : DrugChem-HP\admin
Instrument :   BCCL SD GCMS 3
Acquired   : 11 Jun 2025  20:48     using AcqMethod DrugTest35.M
Sample Name: BLANK (C-19-0068) - INSTRUMENT READY           000002666
Misc Info  :                                                000002666
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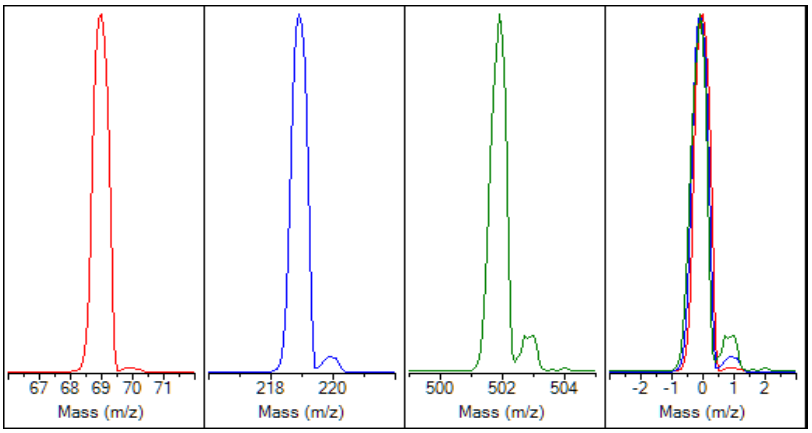


Passed tune evaluation for 6/16/2025- DS

Autotune - 5977

6/16/2025 9:38:18 AM (UTC-5:00) BCCL SD GCMS 3

D:\MASSHUNTER\GCMS\1\5977\atune.u US1329M205



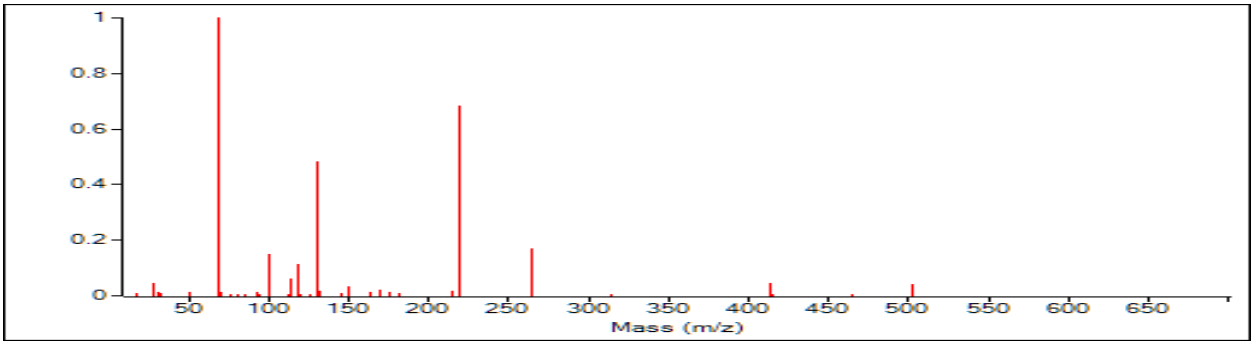
Ion Polarity	Pos	Mass Gain	-369
Emission	34.6	Mass Offset	-35
Electron Energy	70.0	Amu Gain	1674
Filament	1	Amu Offset	116.81
Repeller	34.90	Width219	-0.003
Ion Focus	80.5	DC Polarity	Pos
Entrance Lens	17.6	HED Enable	On
Ent Lens Offset	11.32	EM Volts	1782.3
Ion Body	0.00	Extractor Lens	0.00
		Scan Speed	3
		Averages	3
PFTBA	Open	Step Size	0.10

Temperatures and Pressures

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

Mass	Abund	Rel Abund	Pw50
69.00	402,073	100.0%	0.60
218.90	275,333	68.5%	0.60
501.90	16,170	4.0%	0.59

Low	High	Step	Speed	Threshold	Peaks	Base	Abundance	Total Ion
10.00	701.00	0.10	3	100	90	69.00	398,592	1,230,130



Mass	Abund	Rel Abund	Iso Mass	Iso Abund	Iso Ratio
69.00	398,592	100.00	70.00	4,455	1.12
219.00	272,064	68.26	220.00	11,842	4.35
502.00	16,035	4.02	503.00	1,725	10.76

Air/Water Check: H20 ~0.9% N2 ~4.6% O2 ~0.7% CO2 ~0.1% N2/H20 ~497.2%

Column(1) Flow: 0.80 Column(2): 0.00 ml/min Interface Temp: 280

Ramp Criteria:

Ion Focus maximum 90 volts using ion 502; Electron Multiplier Gain 48907.678

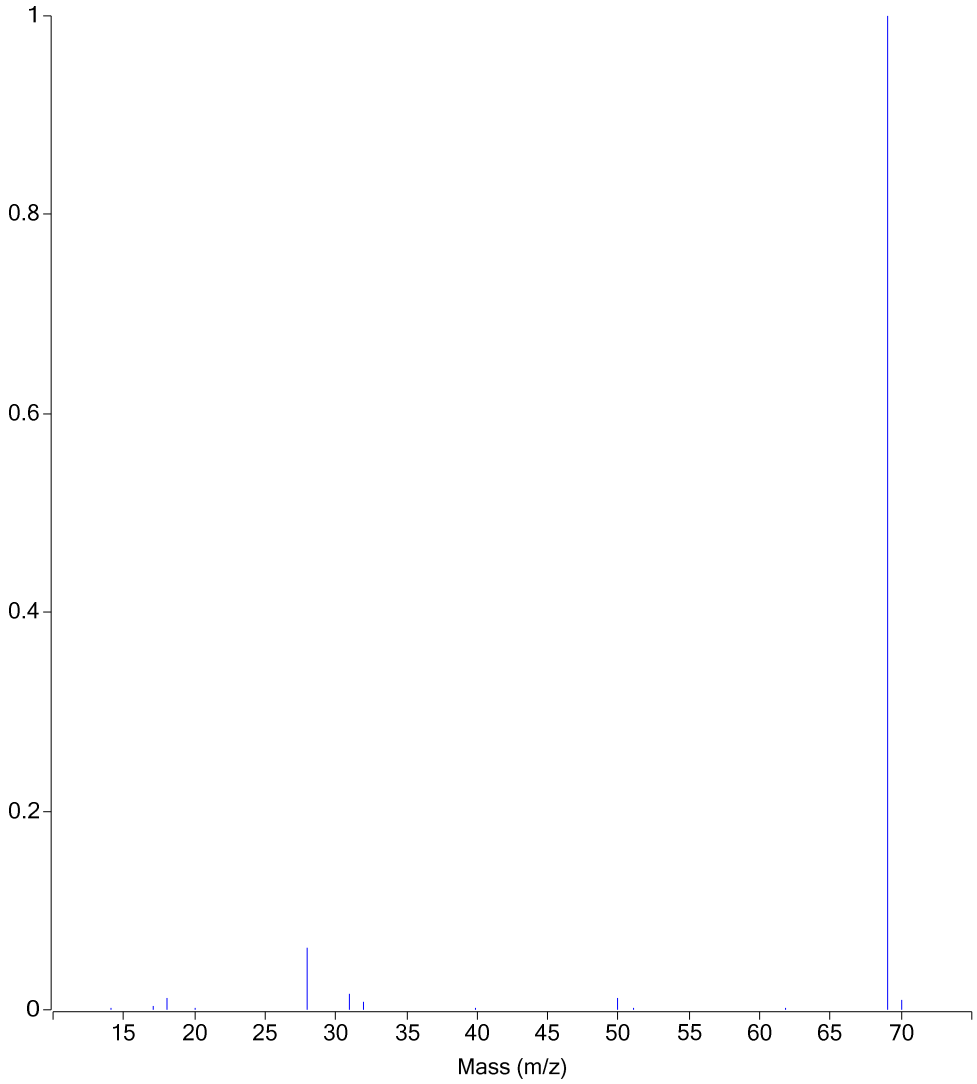
Repeller maximum 35 volts using ion 219; Gain Factor 0.4891

Mass Gain Values(Scan Speed): -356(3) -355(2) -340(1) -328(0) -276(FS1) -362(FS2)

TARGET MASS:	50	69	131	219	414	502	1050
Amu Offset	116.8	116.8	116.8	116.8	116.8	116.8	116.8
Entrance Lens Offset	11.3	11.3	11.3	11.3	11.3	11.3	11.3

597x Air and Water Check

Instrument: BCCL SD GCMS 3
Mon Jun 16 09:31:49 2025 D:\MASSHUNTER\GCMS\1\5977\



Current Params used: atune.u

Relative abundances:

18/69 =	1.25	Water%	(counts=5473)
28/69 =	6.31	Nitrogen%	(counts=27552)
32/69 =	0.87	Oxygen%	(counts=3791)
44/69 =	0.10	Carbon Dioxide%	(counts=435)
28/18 =	503.42	Nitrogen/Water%	

Instrument Name	: BCCL SD GCMS 3	
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	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%)	1.10	OK
Ratio of mass 220 to mass 219(3.2 - 5.4%)	4.35	OK
Ratio of mass 503 to mass 502(7.9 - 12.3%)	10.12	OK
Ratio of 219 to 69 should be > 40% and is	68.70	OK
Ratio of 502 to 69 should be > 2.4% and is	4.05	OK
Mass 69 Precursor (<= 3%)	0.13	OK
Mass 219 Precursor (<= 6%)	0.28	OK
Mass 502 Precursor (<= 12%)	1.78	OK

597x Air and Water Check

Mon Jun 16 09:42:14 2025	Instrument: BCCL SD GCMS 3
D:\MASSHUNTER\GCMS\1\5977\atune.u	US1329M205

Testing for a leak in the system

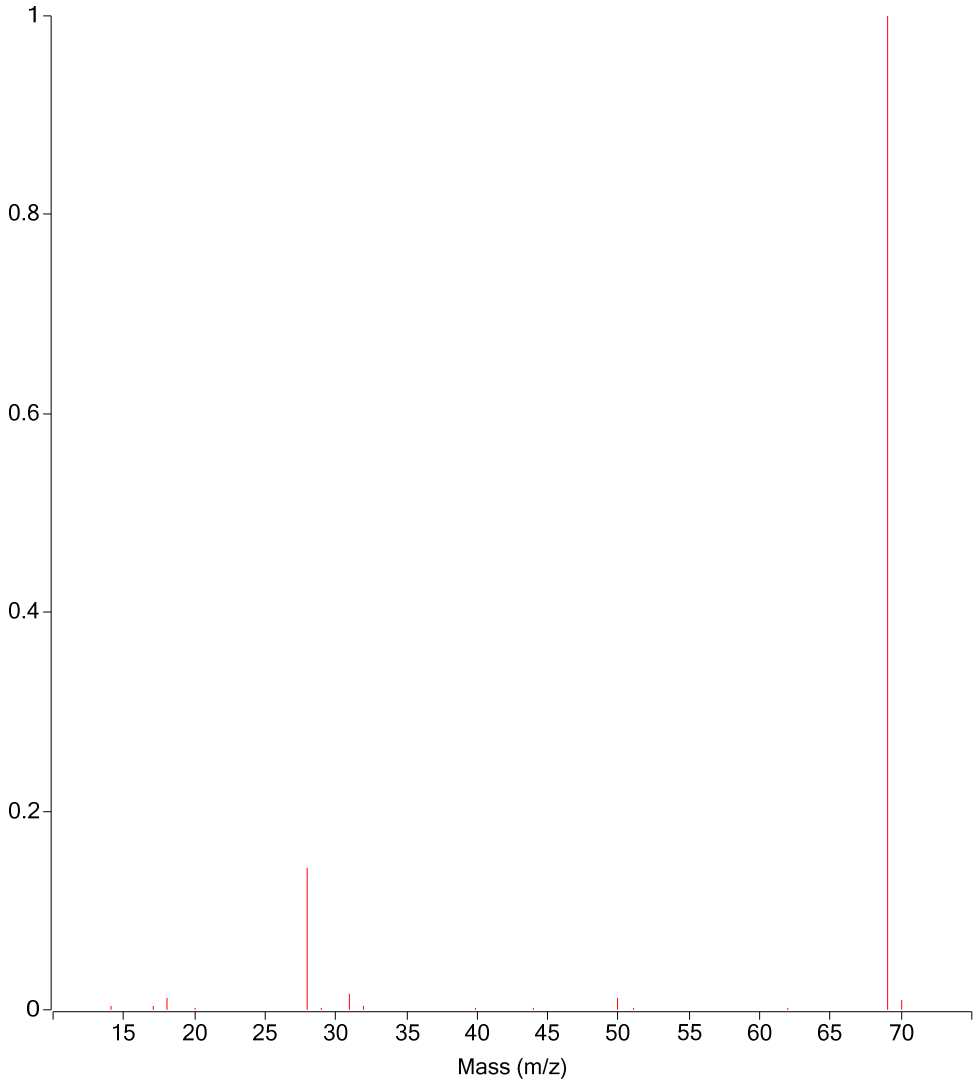
Ratio of 18 to 69 (<20%)	0.96	OK
Ratio of 28 to 69 (<10%)	4.31	OK
Electron Multiplier Voltage	1782	OK

Tune portion of System Verification passed.

Nitrogen still high, so column nut will be tightened more and system given more time to purge - DS

597x Air and Water Check

Instrument: BCCL SD GCMS 3
Mon Jun 16 09:06:12 2025 D:\MASSHUNTER\GCMS\1\5977\



Current Params used: atune.u

Relative abundances:

18/69 =	1.23	Water%	(counts=5429)
28/69 =	14.36	Nitrogen%	(counts=63504)
32/69 =	0.47	Oxygen%	(counts=2089)
44/69 =	0.13	Carbon Dioxide%	(counts=579)
28/18 =	1169.72	Nitrogen/Water%	

Nitrogen high on initial tune, therefore another tune will be done after tightening the column nut and allowing system to purge. - DS

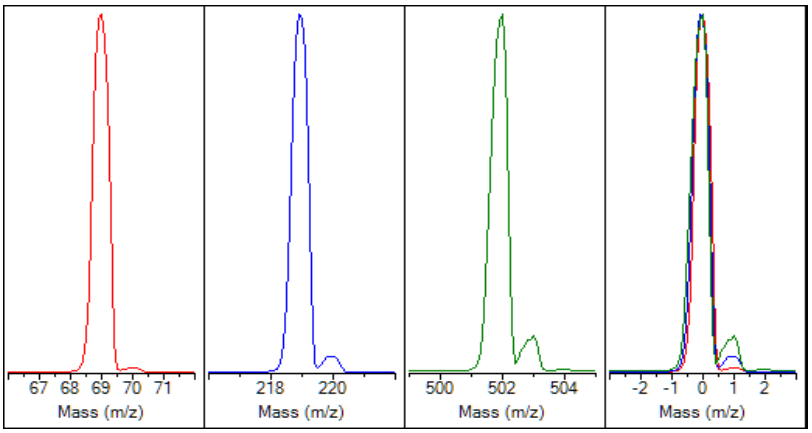
Autotune - 5977

6/16/2025 8:56:07 AM (UTC-5:00)

D:\MASSHUNTER\GCMS\1\5977\atune.u

BCCL SD GCMS 3

US1329M205



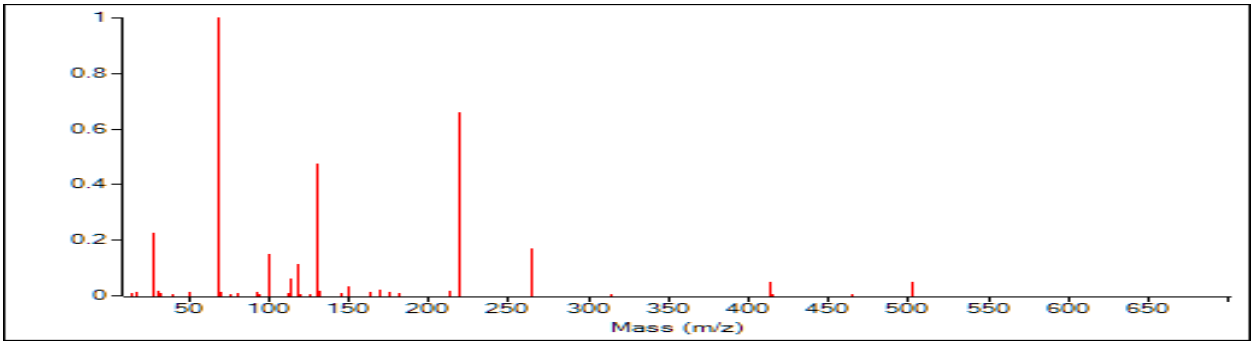
Ion Polarity	Pos	Mass Gain	-366
Emission	34.6	Mass Offset	-35
Electron Energy	70.0	Amu Gain	1671
Filament	1	Amu Offset	116.88
Repeller	34.90	Width219	-0.006
Ion Focus	88.4	DC Polarity	Pos
Entrance Lens	17.6	HED Enable	On
Ent Lens Offset	12.36	EM Volts	1782.3
Ion Body	0.00	Extractor Lens	0.00
		Scan Speed	3
		Averages	3
PFTBA	Open	Step Size	0.10

Temperatures and Pressures

MS Source	230	Turbo Speed	100.0
MS Quad	150	Hi Vac	9.17e-06

Mass	Abund	Rel Abund	Pw50
69.00	475,175	100.0%	0.60
218.90	312,987	65.9%	0.60
502.00	22,770	4.8%	0.61

Low	High	Step	Speed	Threshold	Peaks	Base	Abundance	Total Ion
10.00	701.00	0.10	3	100	101	69.00	468,096	1,529,765



Mass	Abund	Rel Abund	Iso Mass	Iso Abund	Iso Ratio
69.00	468,096	100.00	70.00	5,343	1.14
219.00	308,096	65.82	220.00	13,292	4.31
501.90	22,120	4.73	502.90	2,261	10.22

Air/Water Check: H20 ~1.3% N2 ~22.4% O2 ~0.6% CO2 ~0.1% N2/H20 ~1707.1%

Column(1) Flow: 0.80 Column(2): 0.00 ml/min Interface Temp: 280

Ramp Criteria:

Ion Focus maximum 90 volts using ion 502; Electron Multiplier Gain 51646.197

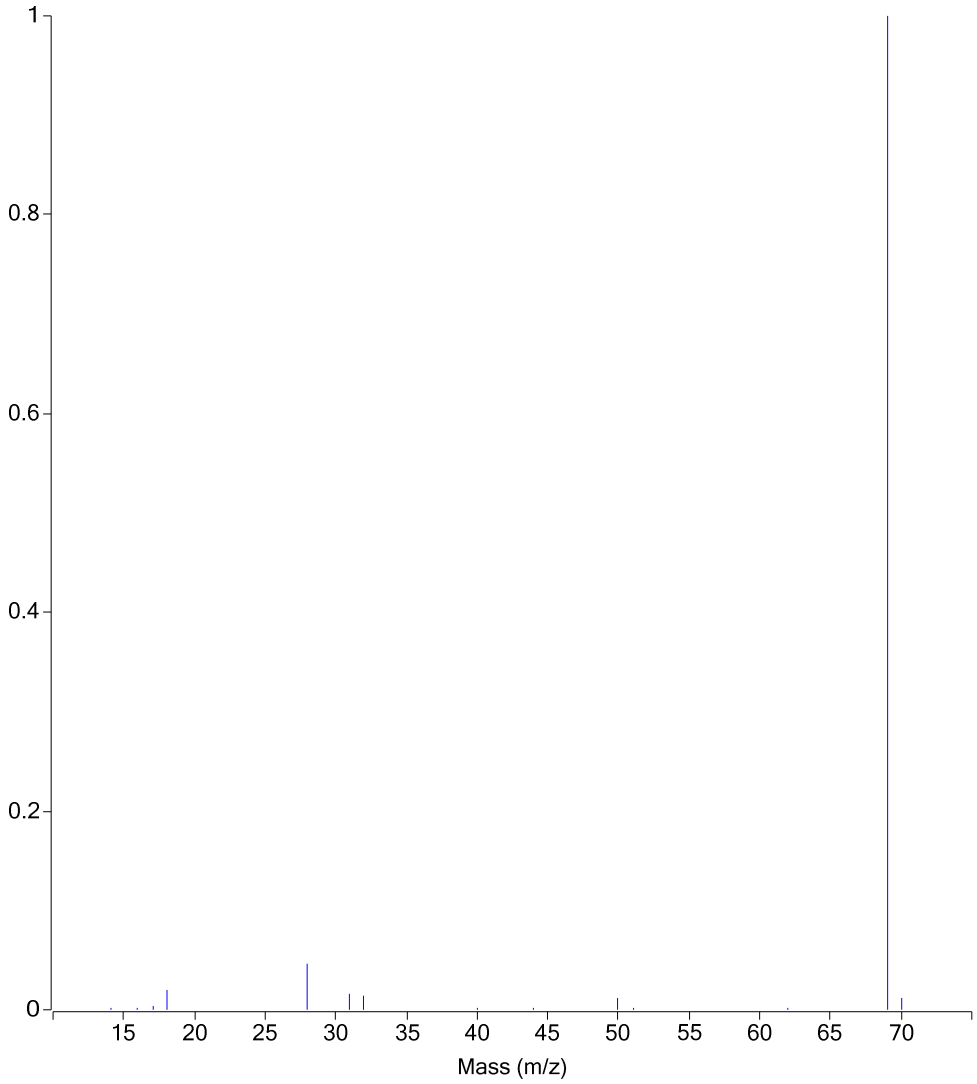
Repeller maximum 35 volts using ion 219; Gain Factor 0.5165

Mass Gain Values(Scan Speed): -366(3) -356(2) -352(1) -341(0) -340(FS1) -262(FS2)

TARGET MASS:	50	69	131	219	414	502	1050
Amu Offset	116.9	116.9	116.9	116.9	116.9	116.9	116.9
Entrance Lens Offset	12.4	12.4	12.4	12.4	12.4	12.4	12.4

597x Air and Water Check

Instrument: BCCL SD GCMS 3
Mon Jun 16 08:51:10 2025 D:\MassHunter\GCMS\1\5977\



Current Params used: atune.u

Relative abundances:

18/69 =	1.99	Water%	(counts=17112)
28/69 =	4.62	Nitrogen%	(counts=39656)
32/69 =	1.51	Oxygen%	(counts=12930)
44/69 =	0.22	Carbon Dioxide%	(counts=1864)
28/18 =	231.74	Nitrogen/Water%	

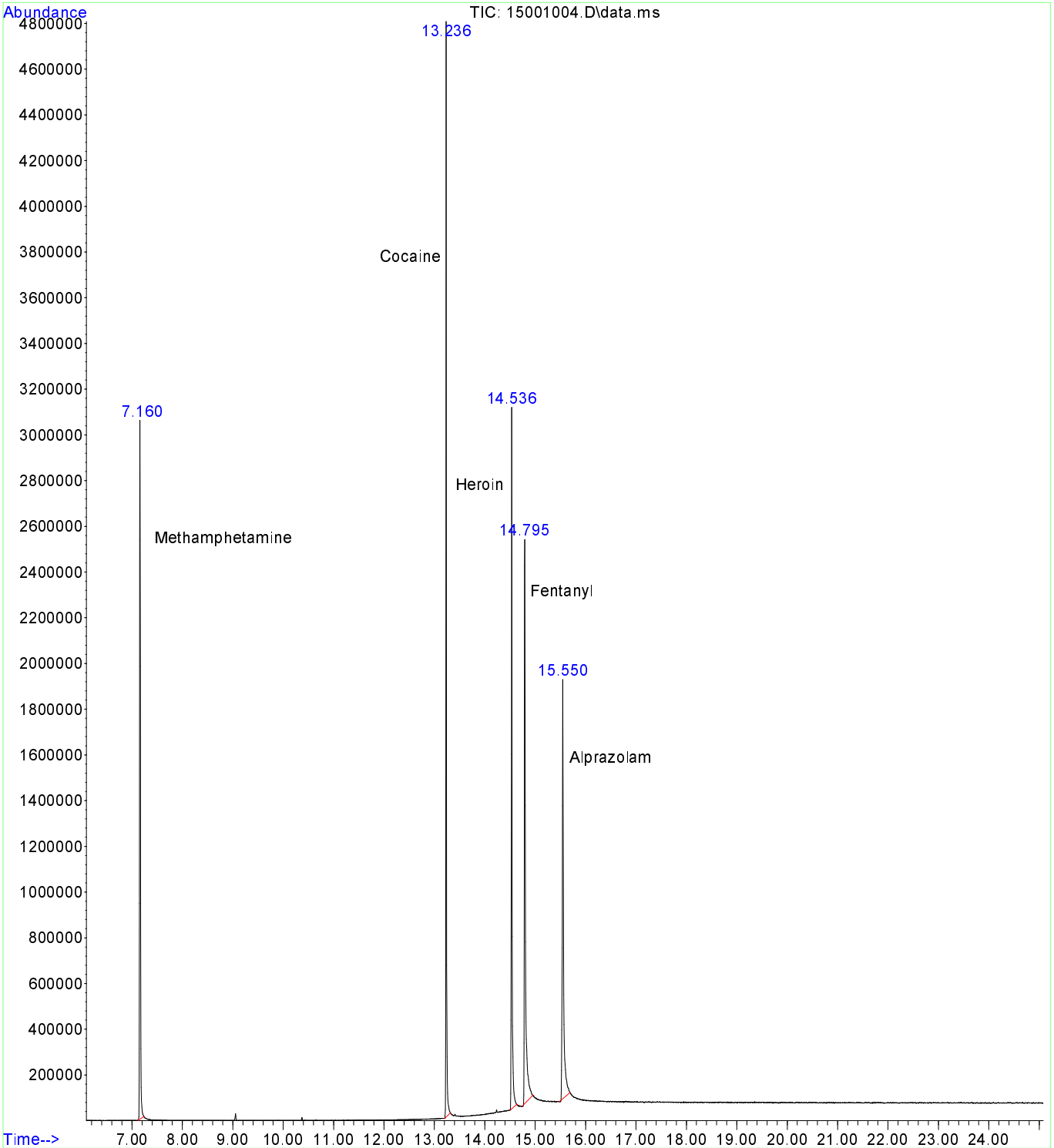
BCCL GC/MS #3
Retention Times for the Week of:

06/16/2025 - 06/22/2025

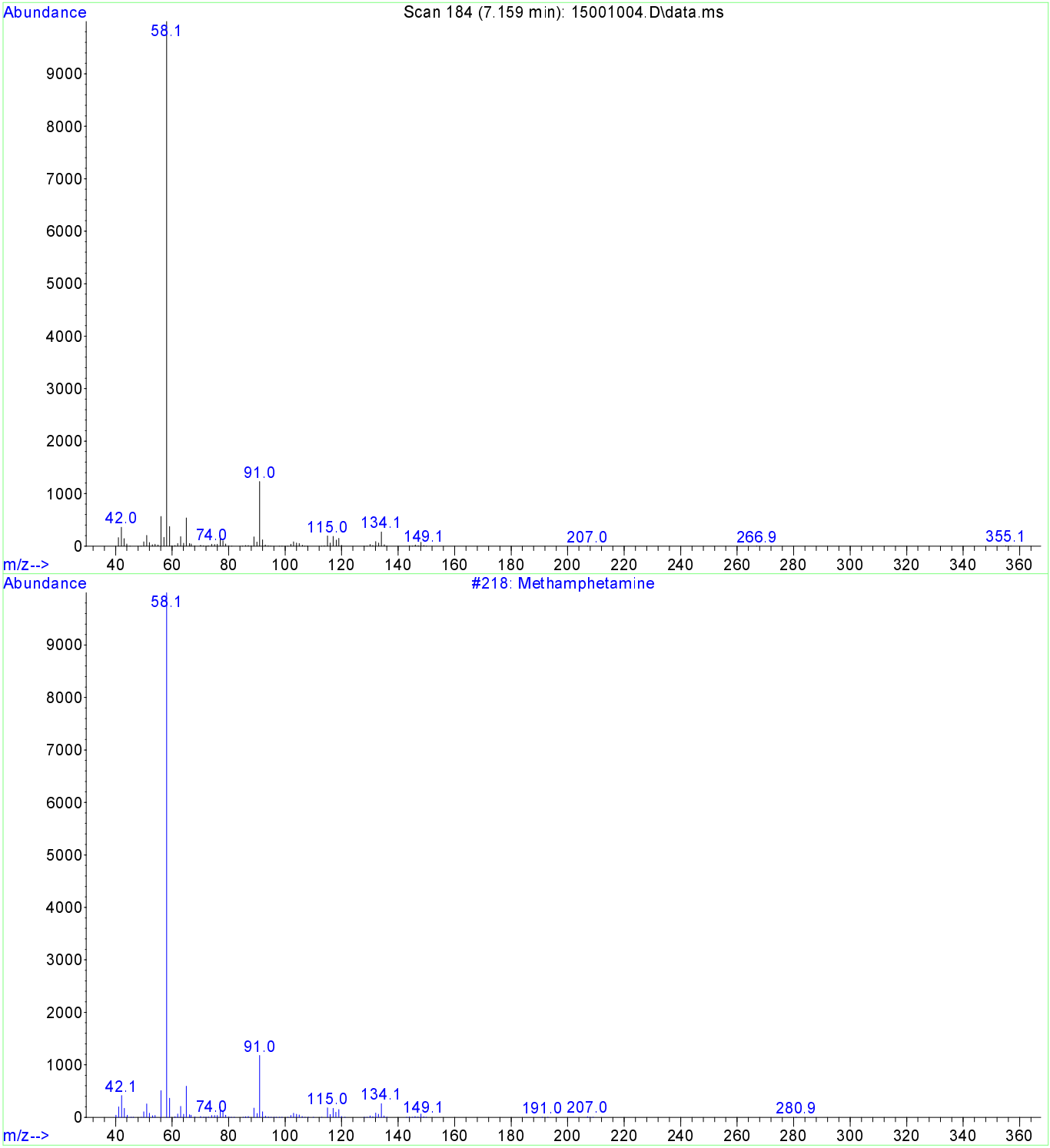
[x] **Tune: DS 06/16/2025 - Autotune**

Standard	Standard #	Method	Retention Time	1% Window	
Methamphetamine	R-24-060	DrugTest35	7.160	7.088	7.231
Cocaine	R-24-060	DrugTest35	13.236	13.103	13.368
Heroin	R-24-060	DrugTest35	14.536	14.390	14.681
Fentanyl	R-24-060	DrugTest35	14.795	14.647	14.942
Alprazolam	R-24-060	DrugTest35	15.550	15.394	15.705
PCP	R-24-017	DrugTest35	12.252	12.129	12.374

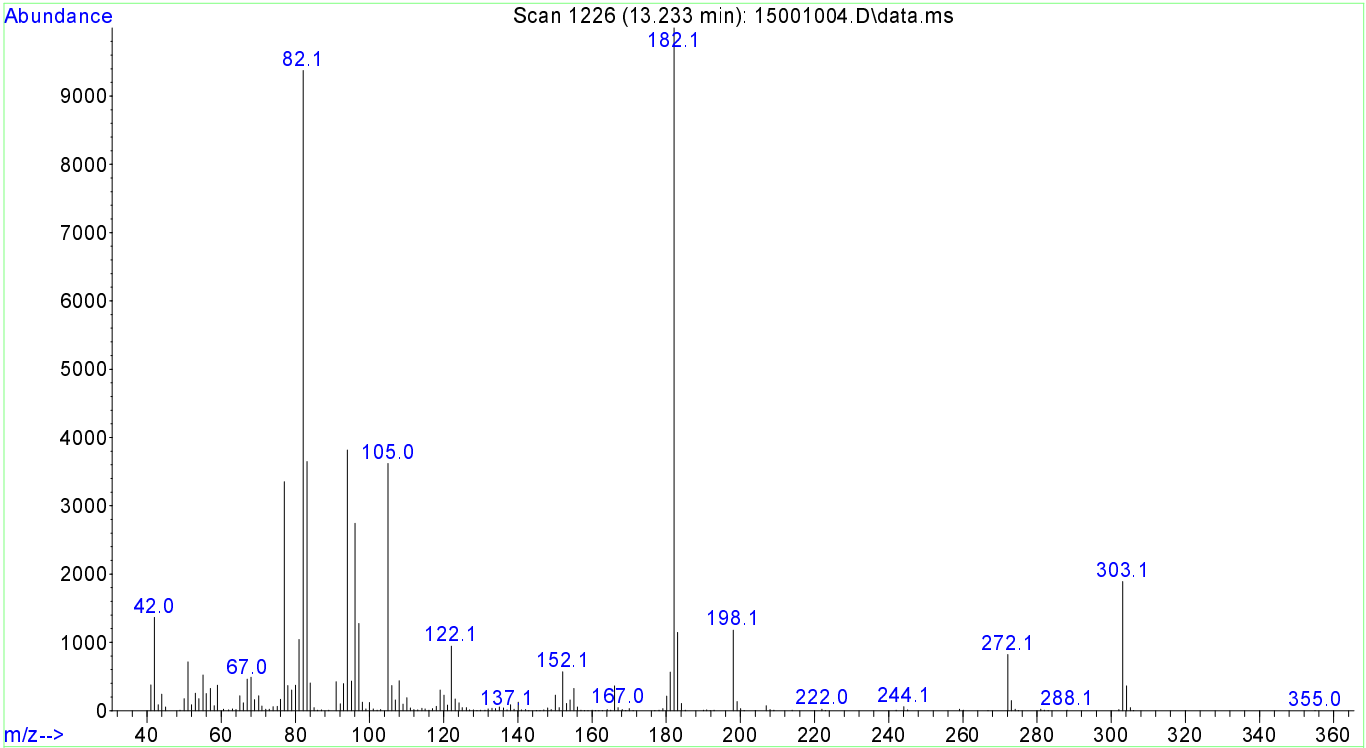
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...          Data\061625\15001004.D
Operator   : DrugChem-HP\admin
Instrument :   BCCL SD GCMS 3
Acquired   : 16 Jun 2025  10:59     using AcqMethod DrugTest35.M
Sample Name: CAYMAN GC/MS MIX 3 (R-24-060)                    000002667
Misc Info  :                                                  000002667
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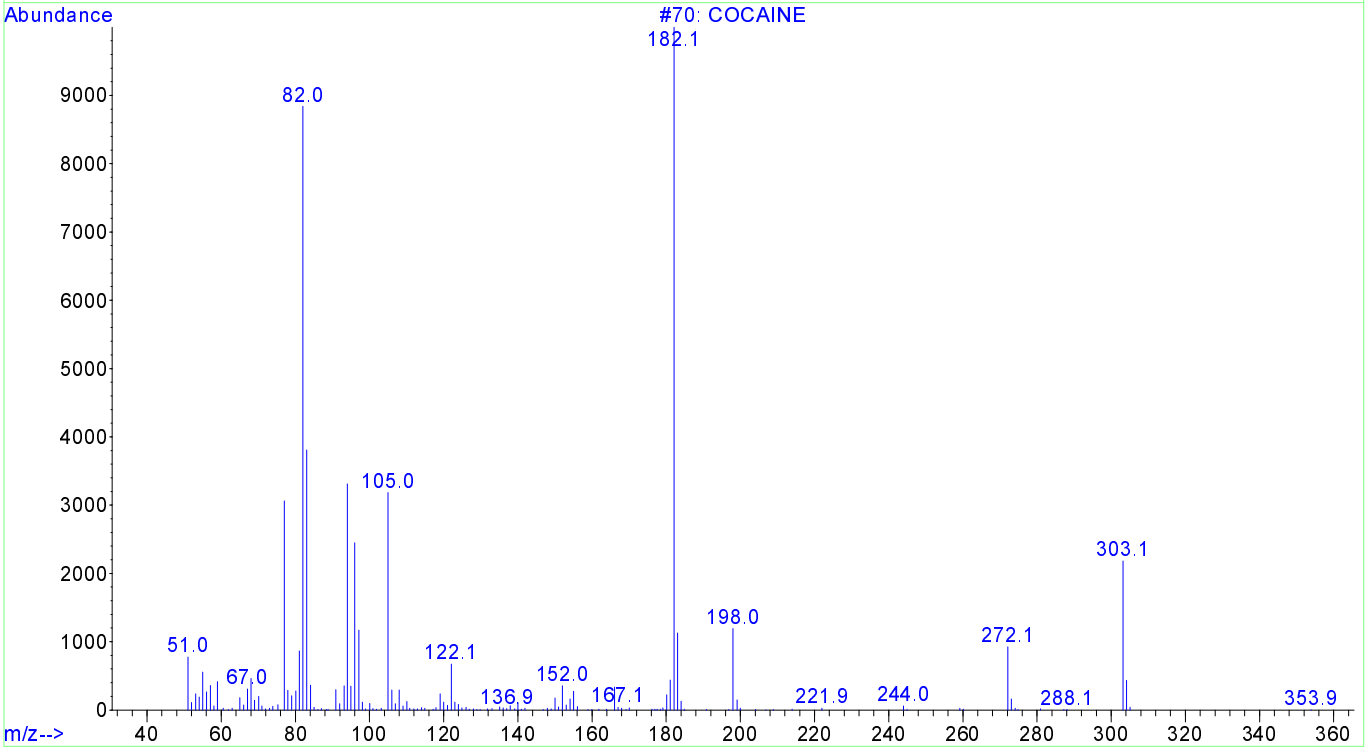


File :D:\MassHunter\GCMS\1\GCMS 3 data\Standards\Weekly Check\2025
... Data\061625\15001004.D
Operator : DrugChem-HP\admin
Instrument : BCCL SD GCMS 3
Acquired : 16 Jun 2025 10:59 using AcqMethod DrugTest35.M
Sample Name: CAYMAN GC/MS MIX 3 (R-24-060) 000002667
Misc Info : 000002667

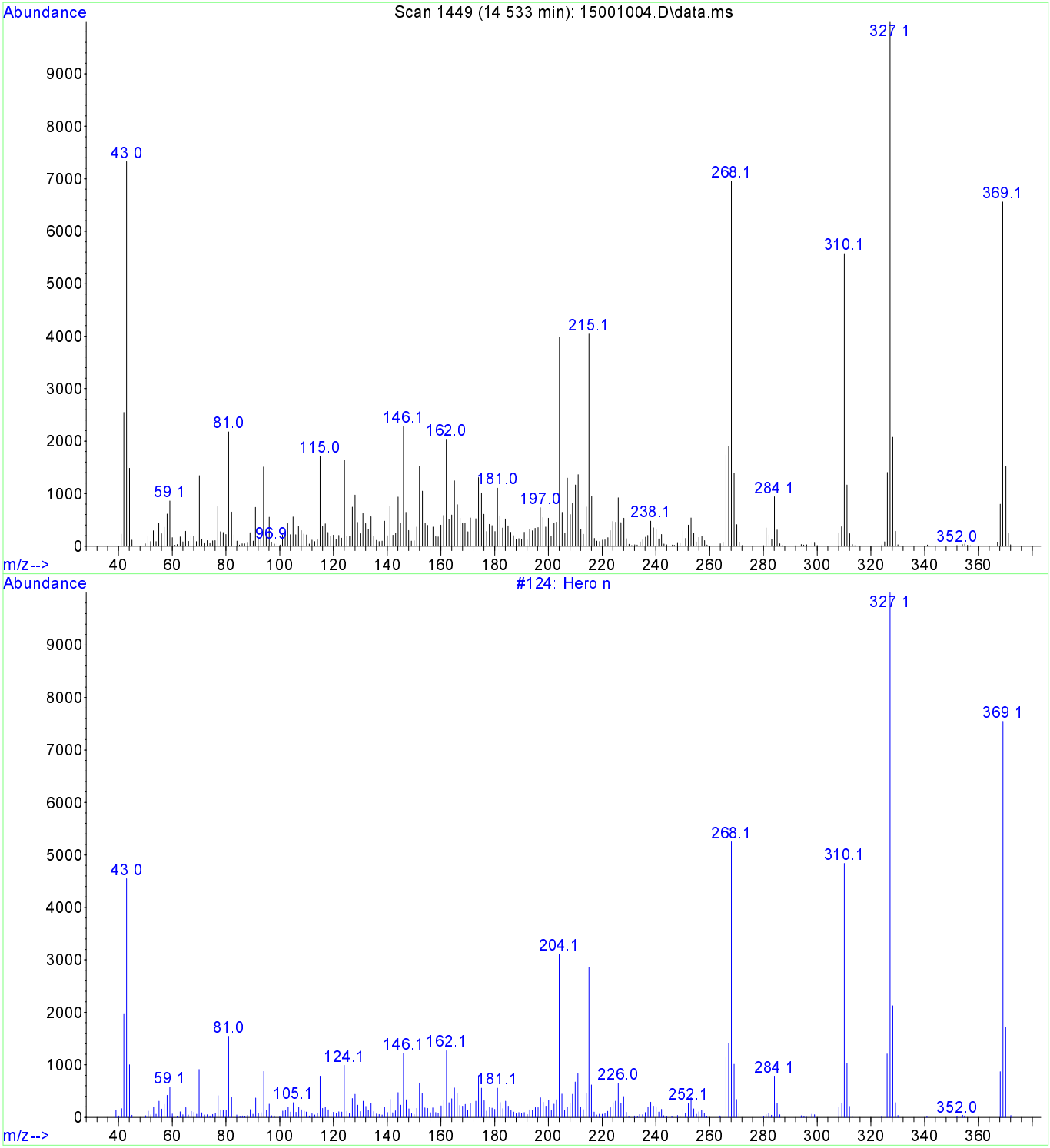


File :D:\MassHunter\GCMS\1\GCMS 3 data\Standards\Weekly Check\2025
... Data\061625\15001004.D
Operator : DrugChem-HP\admin
Instrument : BCCL SD GCMS 3
Acquired : 16 Jun 2025 10:59 using AcqMethod DrugTest35.M
Sample Name: CAYMAN GC/MS MIX 3 (R-24-060) 000002667
Misc Info : 000002667

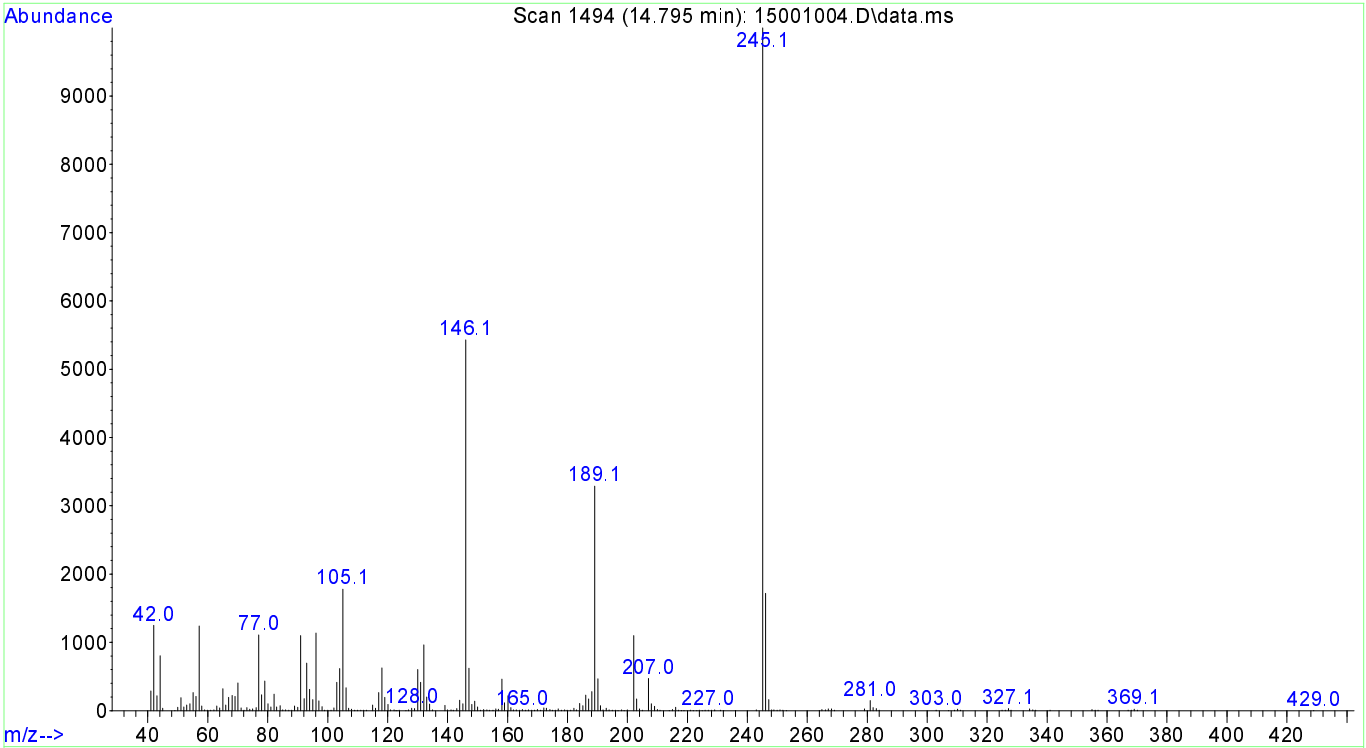


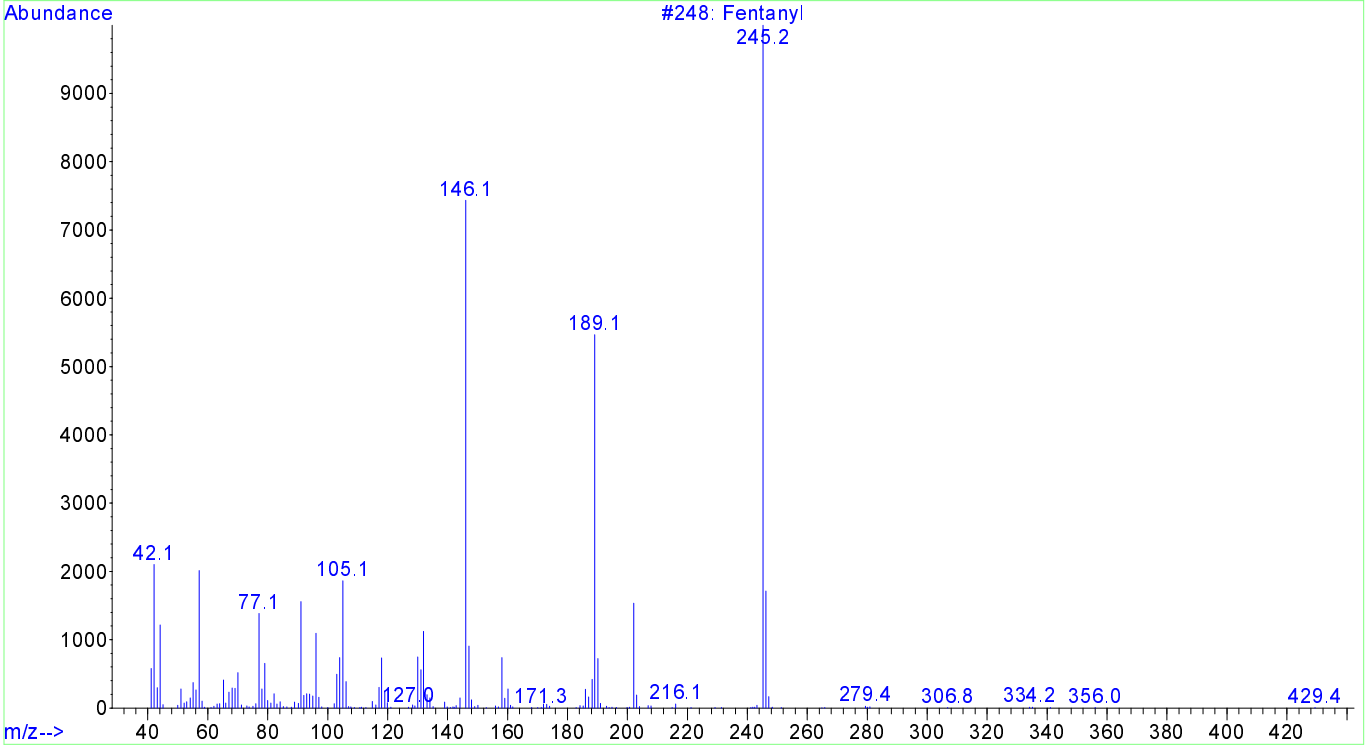


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File       :D:\MassHunter\GCMS\1\GCMS 3 data\Standards\Weekly Check\2025
...          Data\061625\15001004.D
Operator   : DrugChem-HP\admin
Instrument :   BCCL SD GCMS 3
Acquired   : 16 Jun 2025  10:59     using AcqMethod DrugTest35.M
Sample Name: CAYMAN GC/MS MIX 3 (R-24-060)                    000002667
Misc Info  :                                                  000002667
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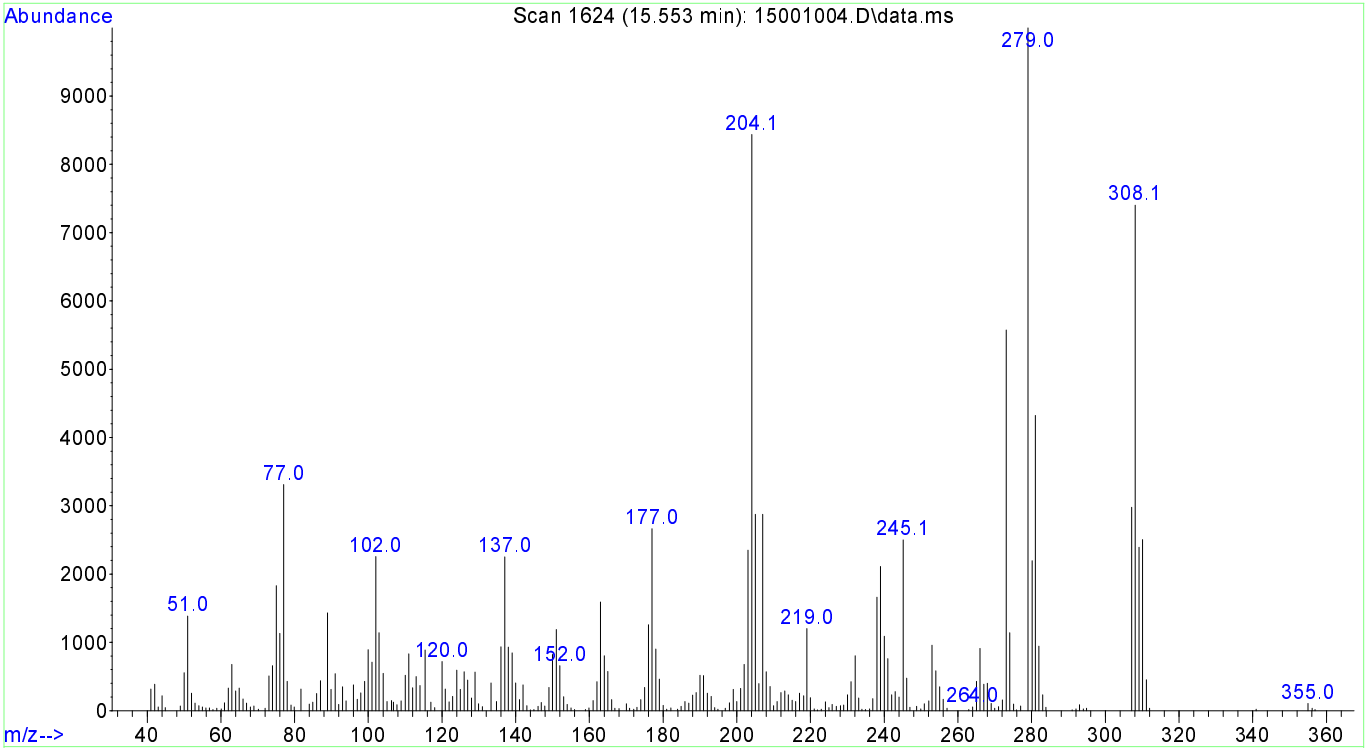


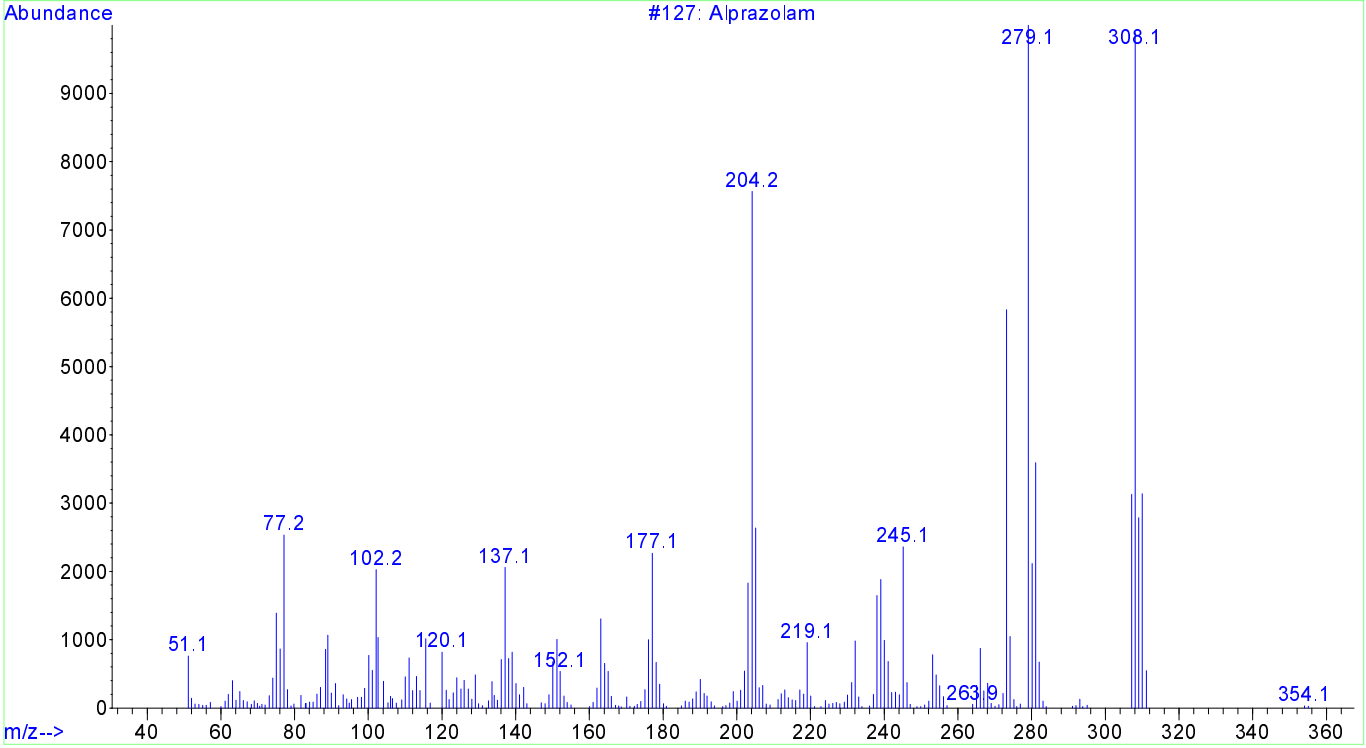
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...          Data\061625\15001004.D
Operator   : DrugChem-HP\admin
Instrument :   BCCL SD GCMS 3
Acquired   : 16 Jun 2025  10:59     using AcqMethod DrugTest35.M
Sample Name: CAYMAN GC/MS MIX 3 (R-24-060)                    000002667
Misc Info  :                                                  000002667
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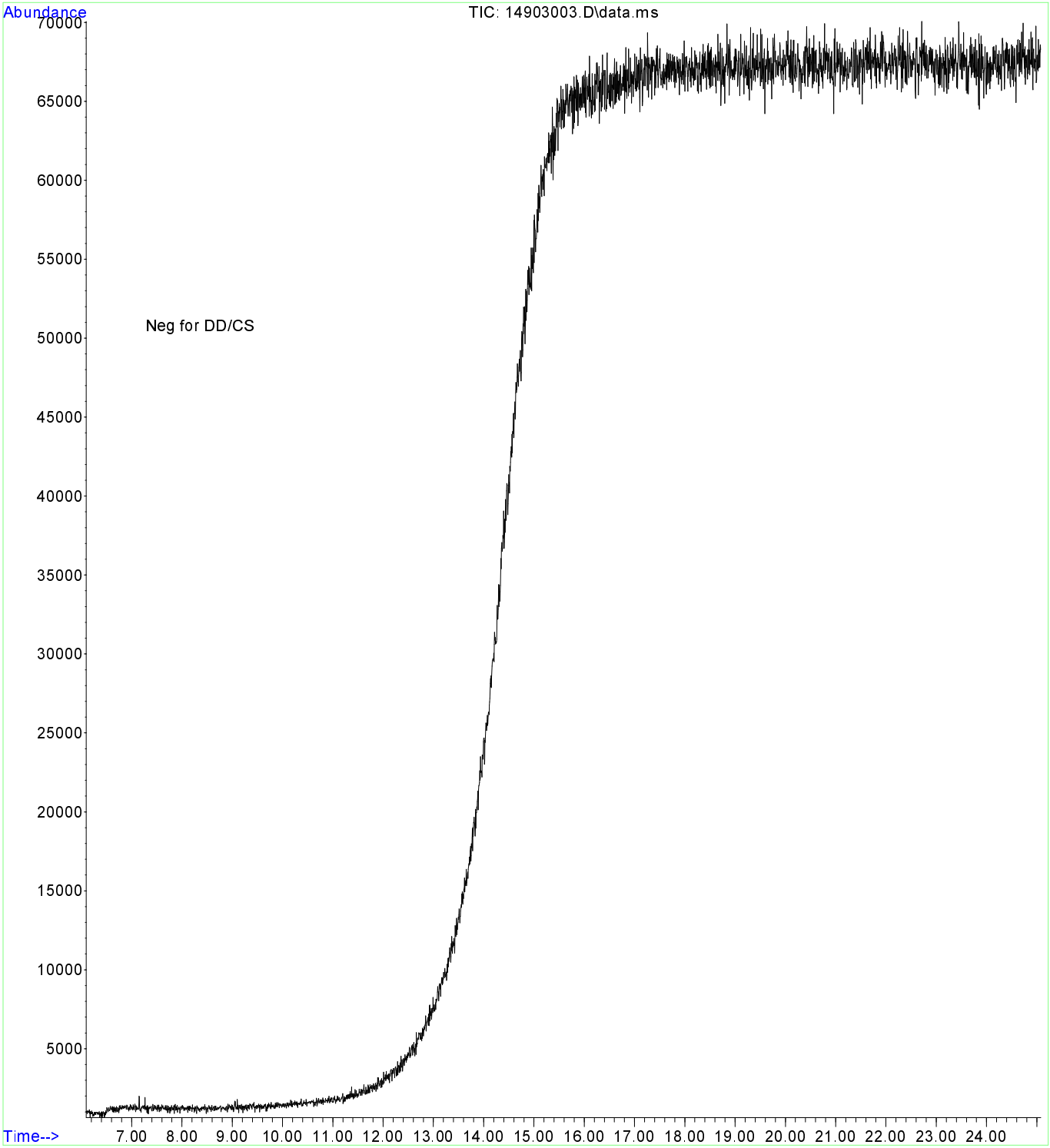


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File       :D:\MassHunter\GCMS\1\GCMS 3 data\Standards\Weekly Check\2025
...          Data\061625\15001004.D
Operator   : DrugChem-HP\admin
Instrument :   BCCL SD GCMS 3
Acquired   : 16 Jun 2025  10:59     using AcqMethod DrugTest35.M
Sample Name: CAYMAN GC/MS MIX 3 (R-24-060)                    000002667
Misc Info  :                                                  000002667
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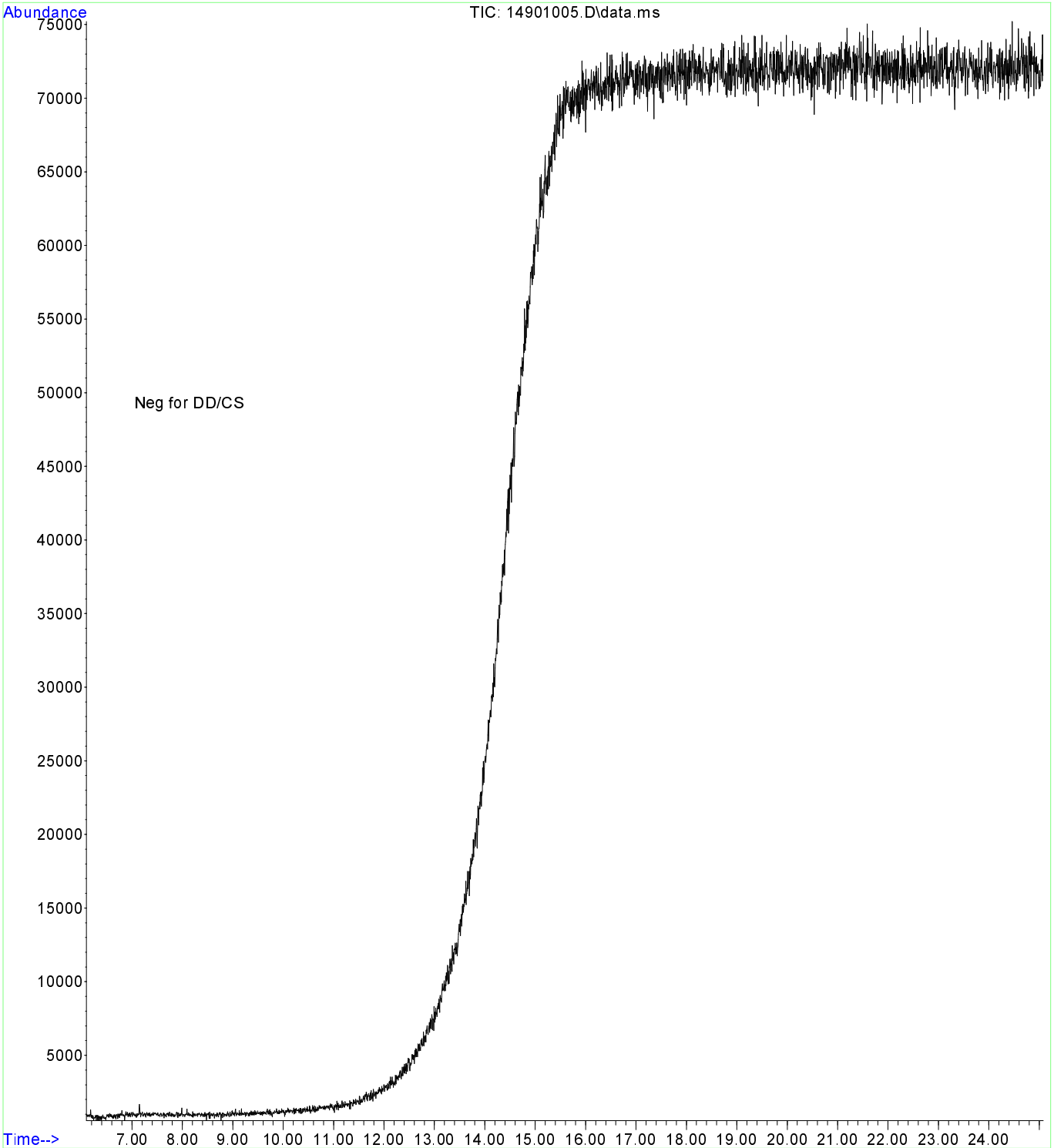




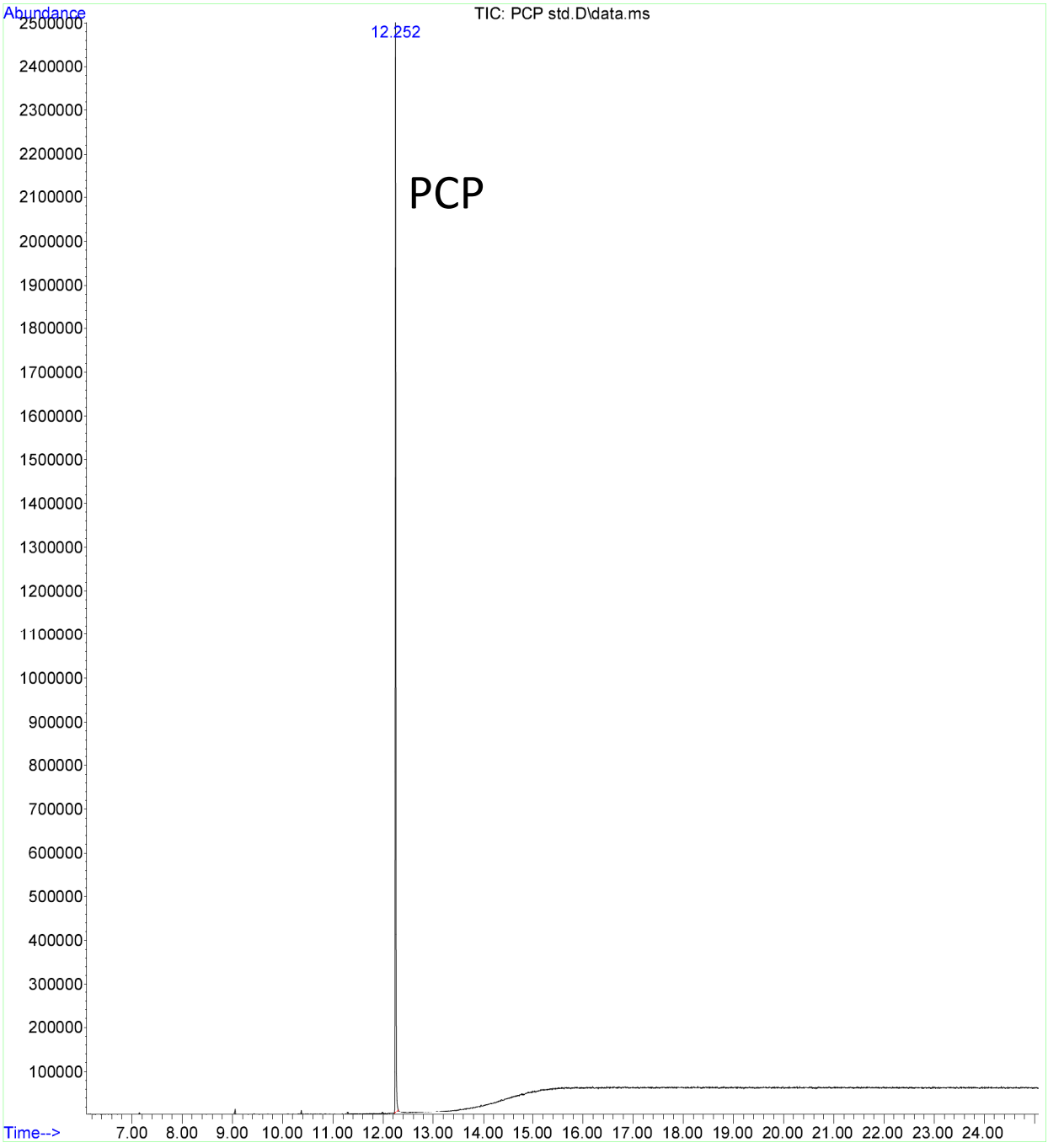
File :D:\MassHunter\GCMS\1\GCMS 3 data\Standards\Weekly Check\2025
... Data\061625\14903003.D
Operator : DrugChem-HP\admin
Instrument : BCCL SD GCMS 3
Acquired : 16 Jun 2025 10:31 using AcqMethod DrugTest35.M
Sample Name: BLANK (C-19-0068) PRIOR TO CAYMAN GC/MS MIX 3 (R-24-060) 000002666
Misc Info : 000002666



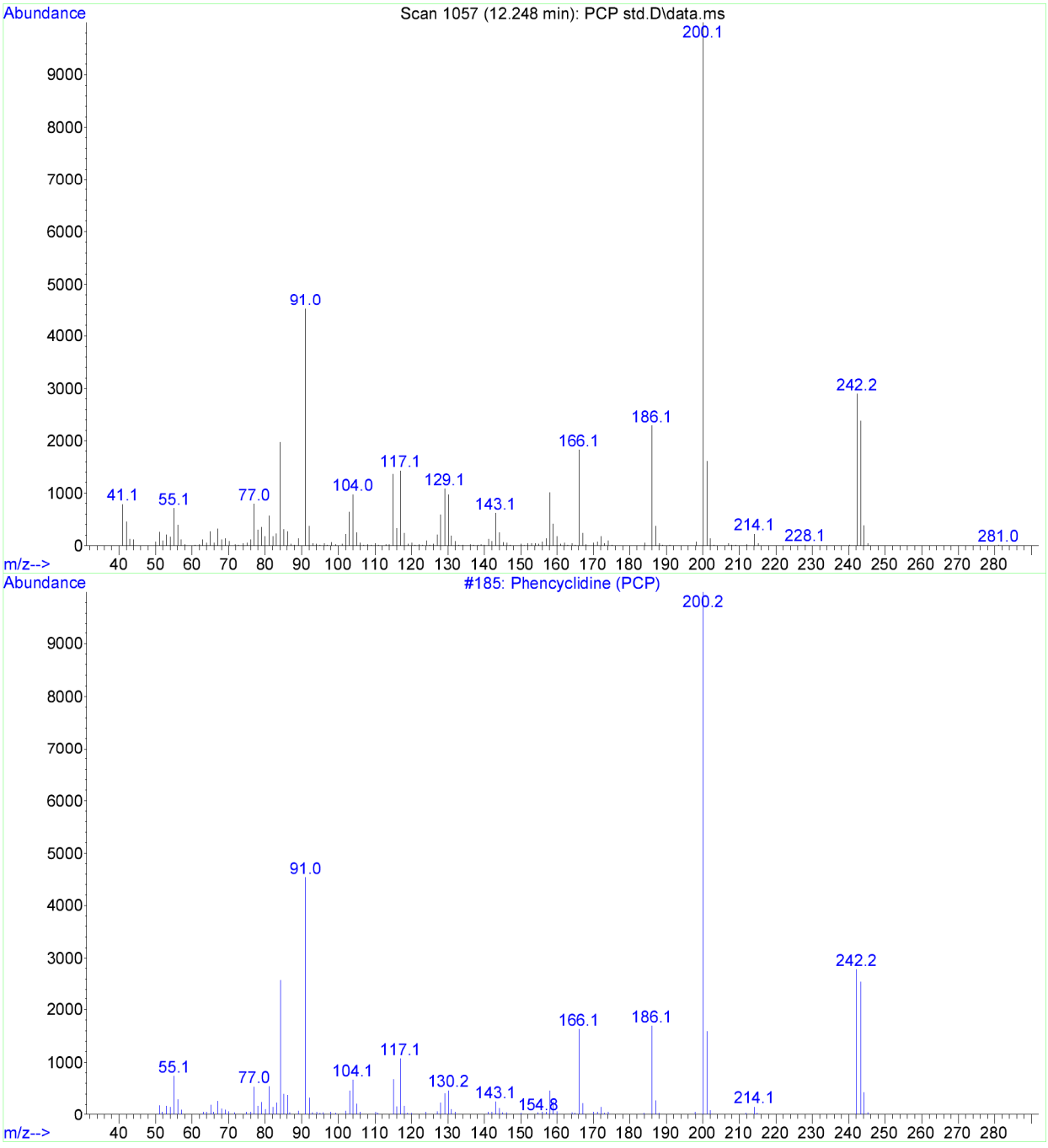
File :D:\MassHunter\GCMS\1\GCMS 3 data\Standards\Weekly Check\2025
... Data\061625\14901005.D
Operator : DrugChem-HP\admin
Instrument : BCCL SD GCMS 3
Acquired : 16 Jun 2025 11:28 using AcqMethod DrugTest35.M
Sample Name: BLANK (C-19-0068) - INSTRUMENT READY 000002666
Misc Info : 000002666



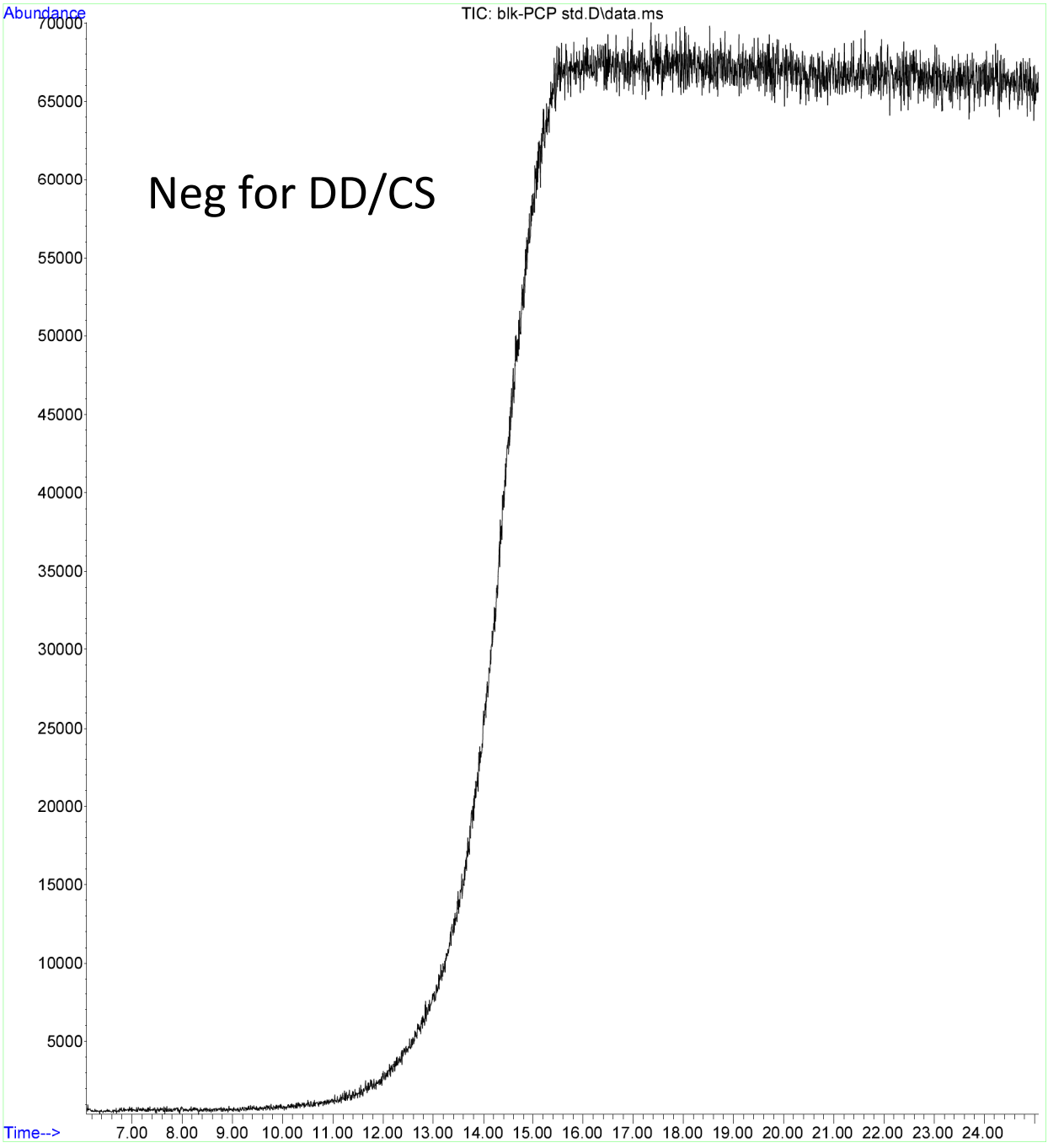
File :D:\MassHunter\GCMS\1\GCMS 3 data\2025 Data\061925\PCP std.D
Operator : DrugChem-HP\admin
Acquired : 19 Jun 2025 09:22 using AcqMethod DrugTest35.M
Instrument : BCCL SD GCMS 3
Sample Name: PCP std (R-24-017) 000002991
Misc Info : RT determination 000002991
Vial Number: 147



File :D:\MassHunter\GCMS\1\GCMS 3 data\2025 Data\061925\PCP std.D
Operator : DrugChem-HP\admin
Acquired : 19 Jun 2025 09:22 using AcqMethod DrugTest35.M
Instrument : BCCL SD GCMS 3
Sample Name: PCP std (R-24-017) 000002991
Misc Info : RT determination 000002991
Vial Number: 147



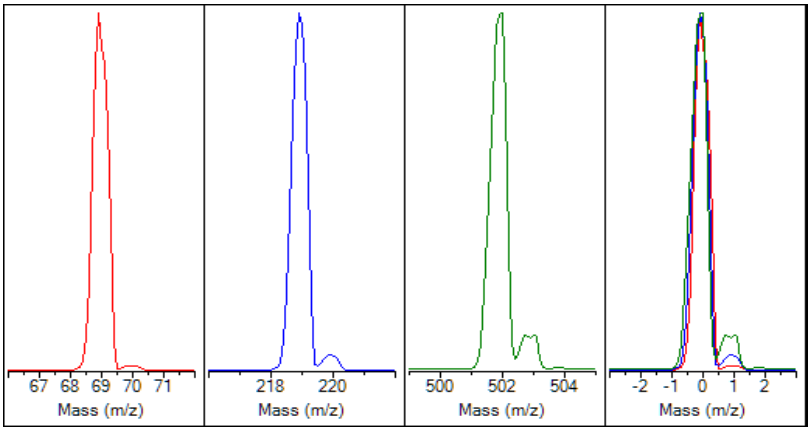
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File       :D:\MassHunter\GCMS\1\GCMS 3 data\2025 Data\061925\blk-PCP st
...         d.D
Operator   : DrugChem-HP\admin
Instrument :   BCCL SD GCMS 3
Acquired   : 19 Jun 2025  08:53     using AcqMethod DrugTest35.M
Sample Name: blank prior to PCP std (R-24-017)              000002232
Misc Info  : MeOH (C-20-0050B)                              000002232
```



Autotune - 5977

6/23/2025 7:02:09 AM (UTC-5:00) BCCL SD GCMS 3

D:\MASSHUNTER\GCMS\1\5977\atune.u US1329M205



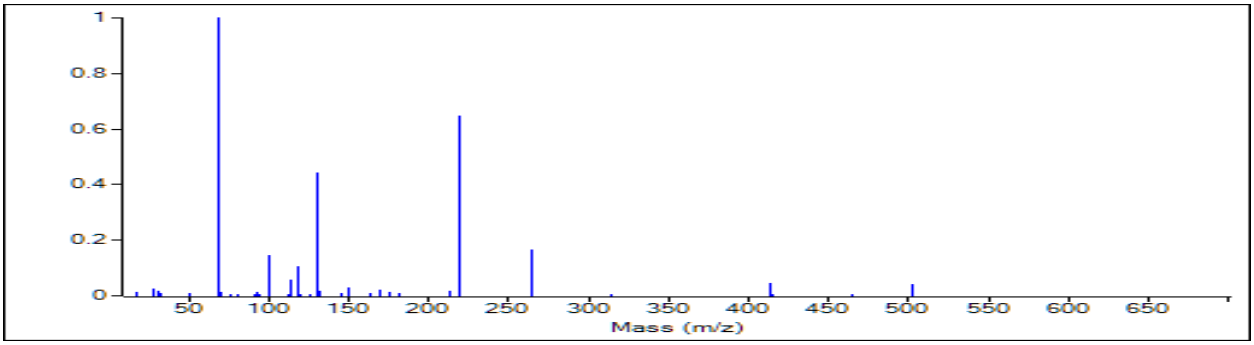
Ion Polarity	Pos	Mass Gain	-369
Emission	34.6	Mass Offset	-35
Electron Energy	70.0	Amu Gain	1671
Filament	1	Amu Offset	116.81
Repeller	34.90	Width219	-0.006
Ion Focus	81.4	DC Polarity	Pos
Entrance Lens	15.1	HED Enable	On
Ent Lens Offset	11.49	EM Volts	1782.3
Ion Body	0.00	Extractor Lens	0.00
		Scan Speed	3
		Averages	3
PFTBA	Open	Step Size	0.10

Mass	Abund	Rel Abund	Pw50
68.90	497,298	100.0%	0.59
218.90	327,584	65.9%	0.59
502.00	18,271	3.7%	0.60

Temperatures and Pressures

MS Source	230	Turbo Speed	100.0
MS Quad	150	Hi Vac	9.17e-06

Low	High	Step	Speed	Threshold	Peaks	Base	Abundance	Total Ion
10.00	701.00	0.10	3	100	100	69.00	474,240	1,403,692



Mass	Abund	Rel Abund	Iso Mass	Iso Abund	Iso Ratio
69.00	474,240	100.00	70.00	5,185	1.09
218.90	306,048	64.53	219.90	13,228	4.32
501.90	18,712	3.95	502.90	1,647	8.80

Air/Water Check: H20 ~1.0% N2 ~2.4% O2 ~0.7% CO2 ~0.1% N2/H20 ~236.2%

Column(1) Flow: 0.80 Column(2): 0.00 ml/min Interface Temp: 280

Ramp Criteria:

Ion Focus maximum 90 volts using ion 502; Electron Multiplier Gain 102695.492

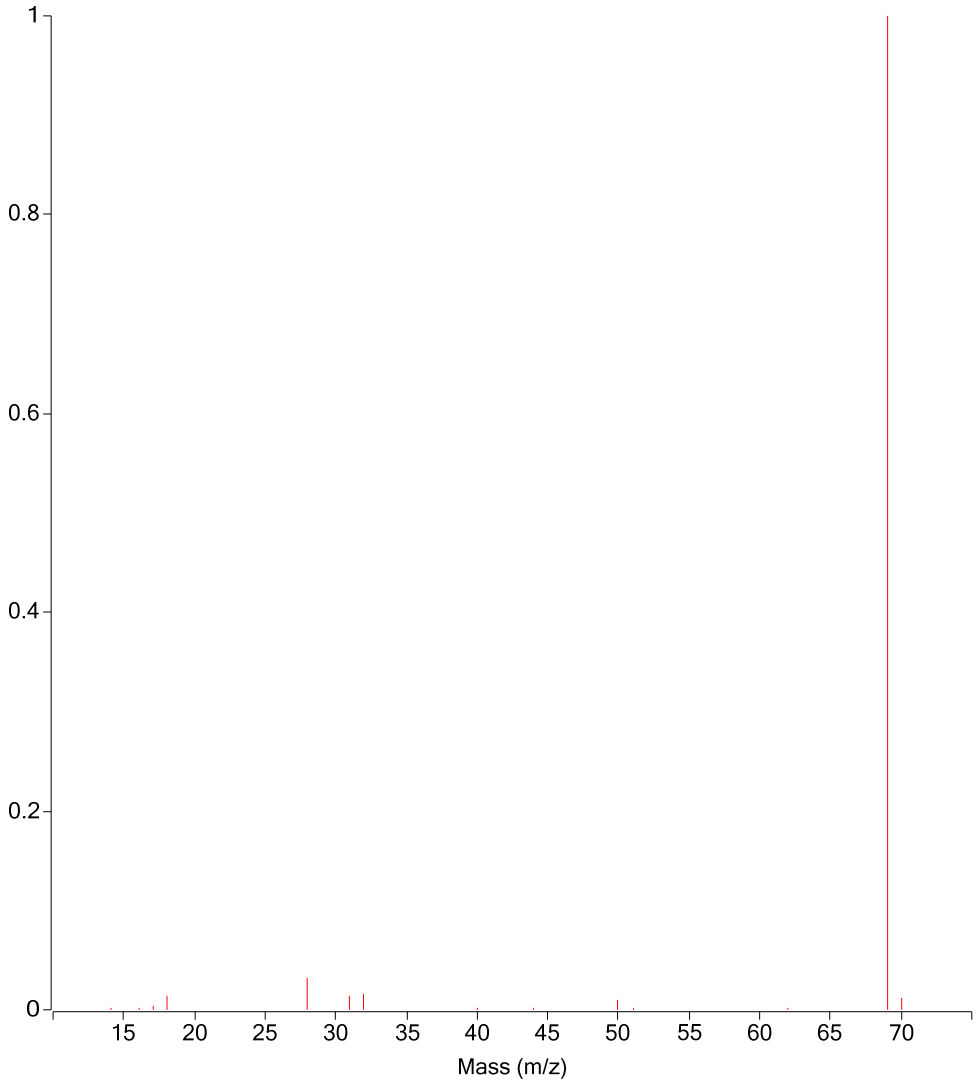
Repeller maximum 35 volts using ion 219; Gain Factor 1.0270

Mass Gain Values(Scan Speed): -376(3) -367(2) -356(1) -347(0) -346(FS1) -232(FS2)

TARGET MASS:	50	69	131	219	414	502	1050
Amu Offset	116.8	116.8	116.8	116.8	116.8	116.8	116.8
Entrance Lens Offset	11.5	11.5	11.5	11.5	11.5	11.5	11.5

597x Air and Water Check

Instrument: BCCL SD GCMS 3
Mon Jun 23 06:55:29 2025 D:\MassHunter\GCMS\1\5977\



Current Params used: atune.u

Relative abundances:

18/69 =	1.50	Water%	(counts=14100)
28/69 =	3.24	Nitrogen%	(counts=30456)
32/69 =	1.57	Oxygen%	(counts=14774)
44/69 =	0.20	Carbon Dioxide%	(counts=1863)
28/18 =	216.00	Nitrogen/Water%	

Instrument Name : BCCL SD GCMS 3
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	501.90	OK
Position of isotope mass 70	70.00	OK
Position of isotope mass 220	219.90	OK
Position of isotope mass 503	502.88	OK
Ratio of mass 70 to mass 69(0.5 - 1.6%)	1.13	OK
Ratio of mass 220 to mass 219(3.2 - 5.4%)	4.26	OK
Ratio of mass 503 to mass 502(7.9 - 12.3%)	10.58	OK
Ratio of 219 to 69 should be > 40% and is	67.79	OK
Ratio of 502 to 69 should be > 2.4% and is	4.23	OK
Mass 69 Precursor (<= 3%)	0.10	OK
Mass 219 Precursor (<= 6%)	0.37	OK
Mass 502 Precursor (<= 12%)	2.27	OK

597x Air and Water Check
Mon Jun 23 07:07:29 2025 Instrument: BCCL SD GCMS 3
D:\MASSHUNTER\GCMS\1\5977\atune.u US1329M205

Testing for a leak in the system

Ratio of 18 to 69 (<20%)	0.97	OK
Ratio of 28 to 69 (<10%)	2.48	OK
Electron Multiplier Voltage	1782	OK

Tune portion of System Verification passed.

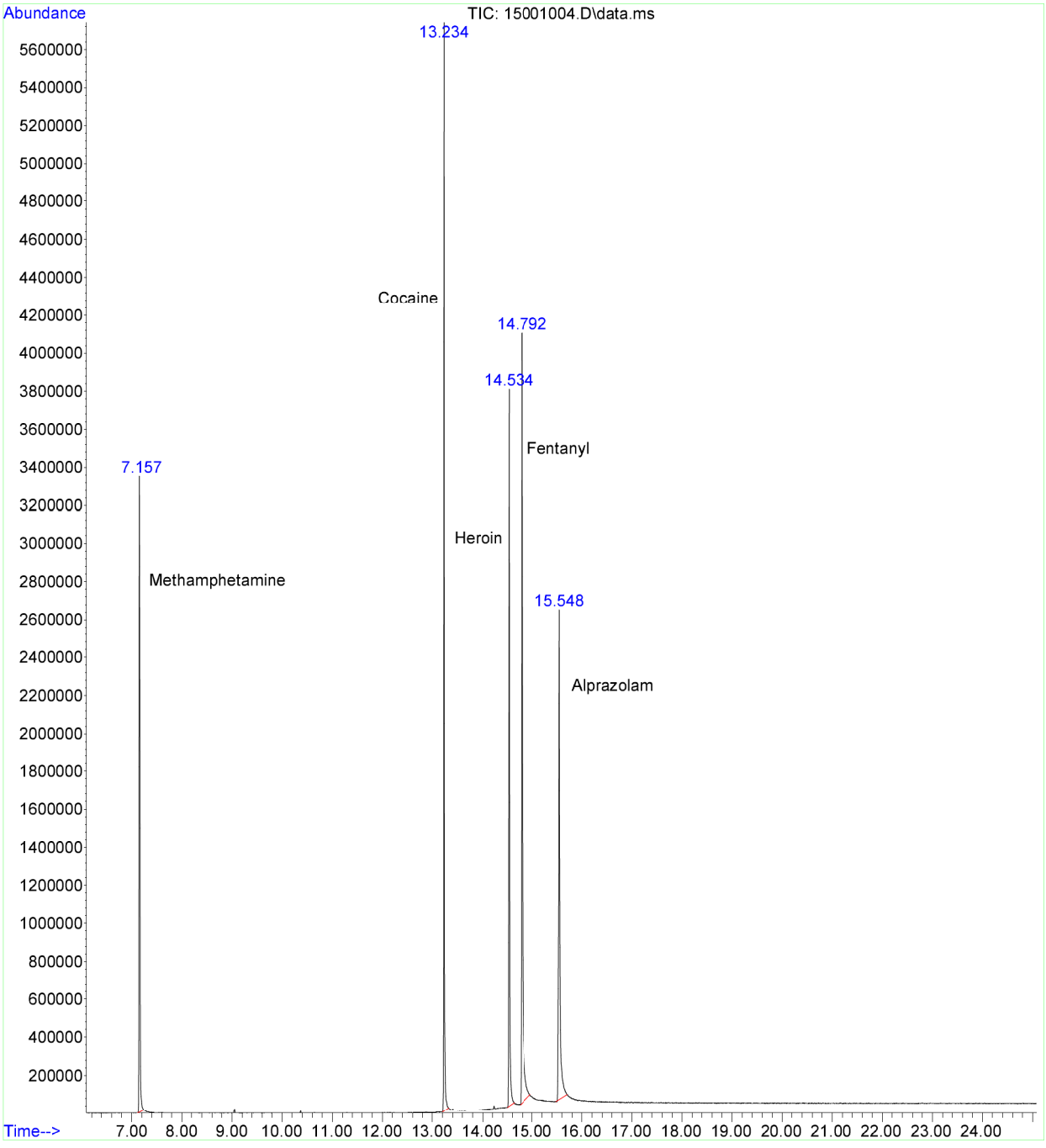
BCCL GC/MS #3
Retention Times for the Week of:

06/23/2025 - 06/29/2025

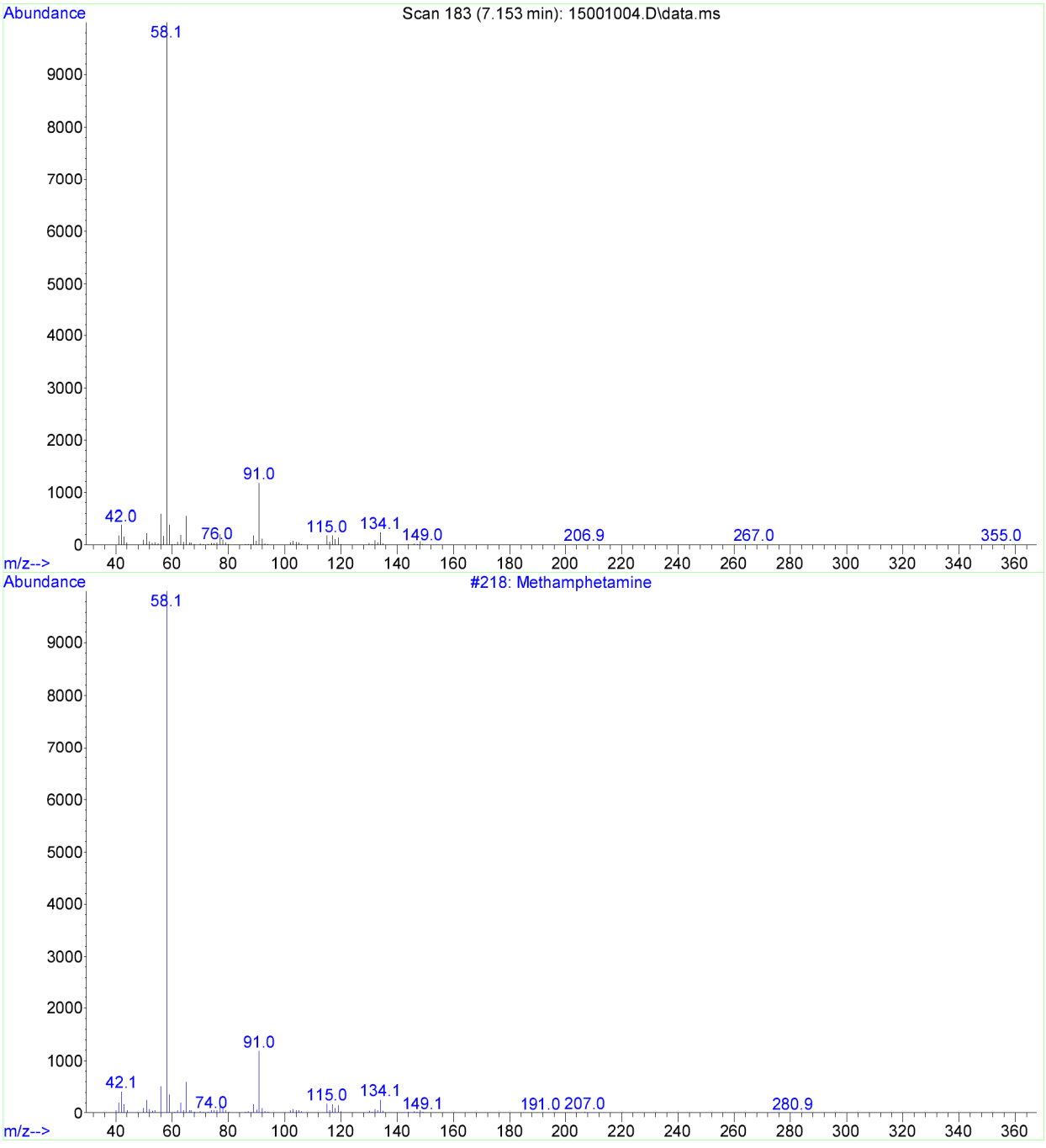
[X] **Tune: KB 06/23/2025 - Autotune**

Standard	Standard #	Method	Retention Time	1% Window	
Methamphetamine	R-24-060	DrugTest35	7.157	7.085	7.228
Cocaine	R-24-060	DrugTest35	13.234	13.101	13.366
Heroin	R-24-060	DrugTest35	14.534	14.388	14.679
Fentanyl	R-24-060	DrugTest35	14.792	14.644	14.939
Alprazolam	R-24-060	DrugTest35	15.548	15.392	15.703
Buprenorphine	S-22-008	DrugTest35	18.025	17.844	18.205

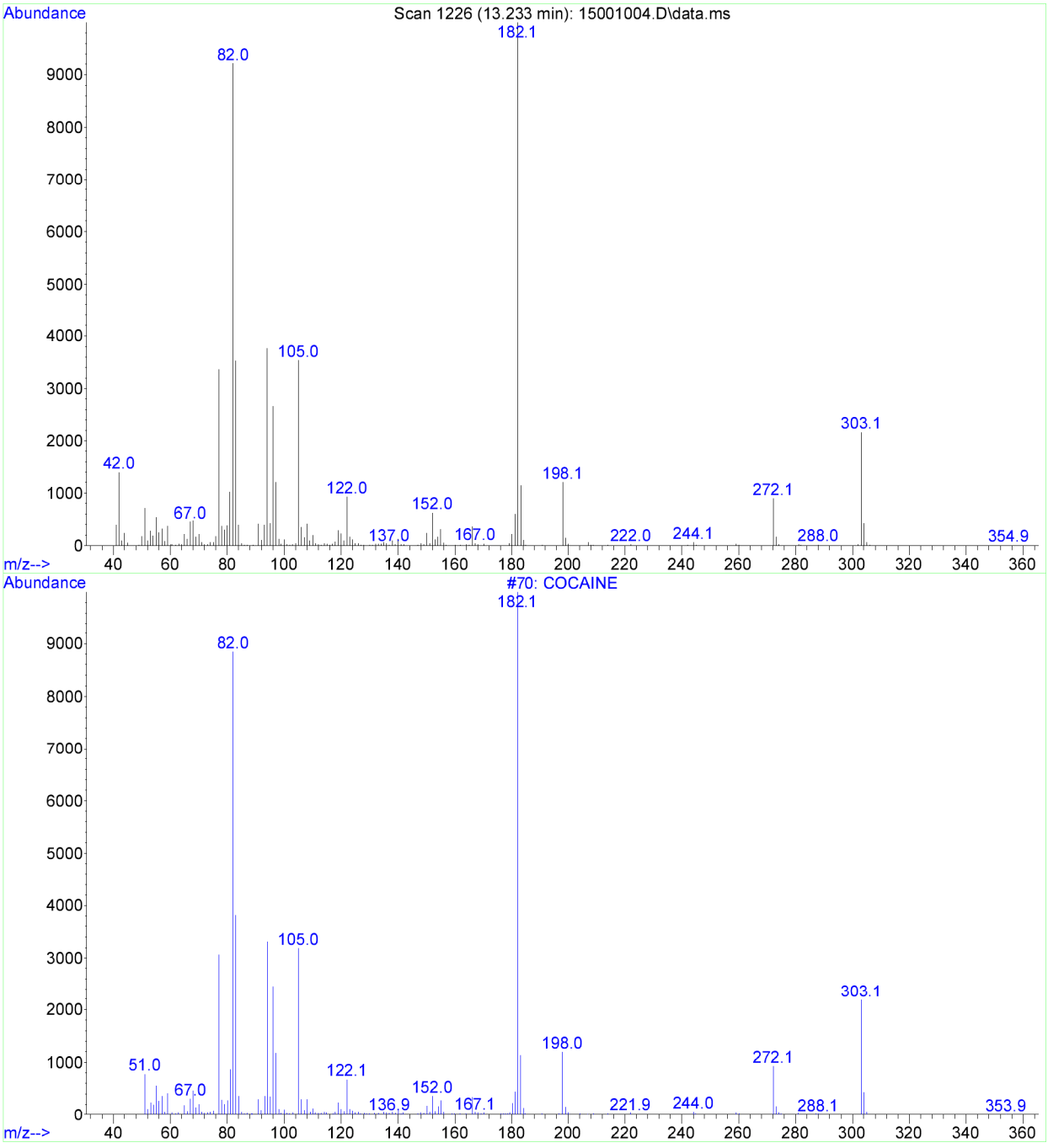
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File       :D:\MassHunter\GCMS\1\GCMS 3 data\Standards\Weekly Check\2025
...          Data\062325\15001004.D
Operator   : DrugChem-HP\admin
Instrument :   BCCL SD GCMS 3
Acquired   : 23 Jun 2025  08:27     using AcqMethod DrugTest35.M
Sample Name: CAYMAN GC/MS MIX 3 (R-24-060)                  000002667
Misc Info  :                                                000002667
```



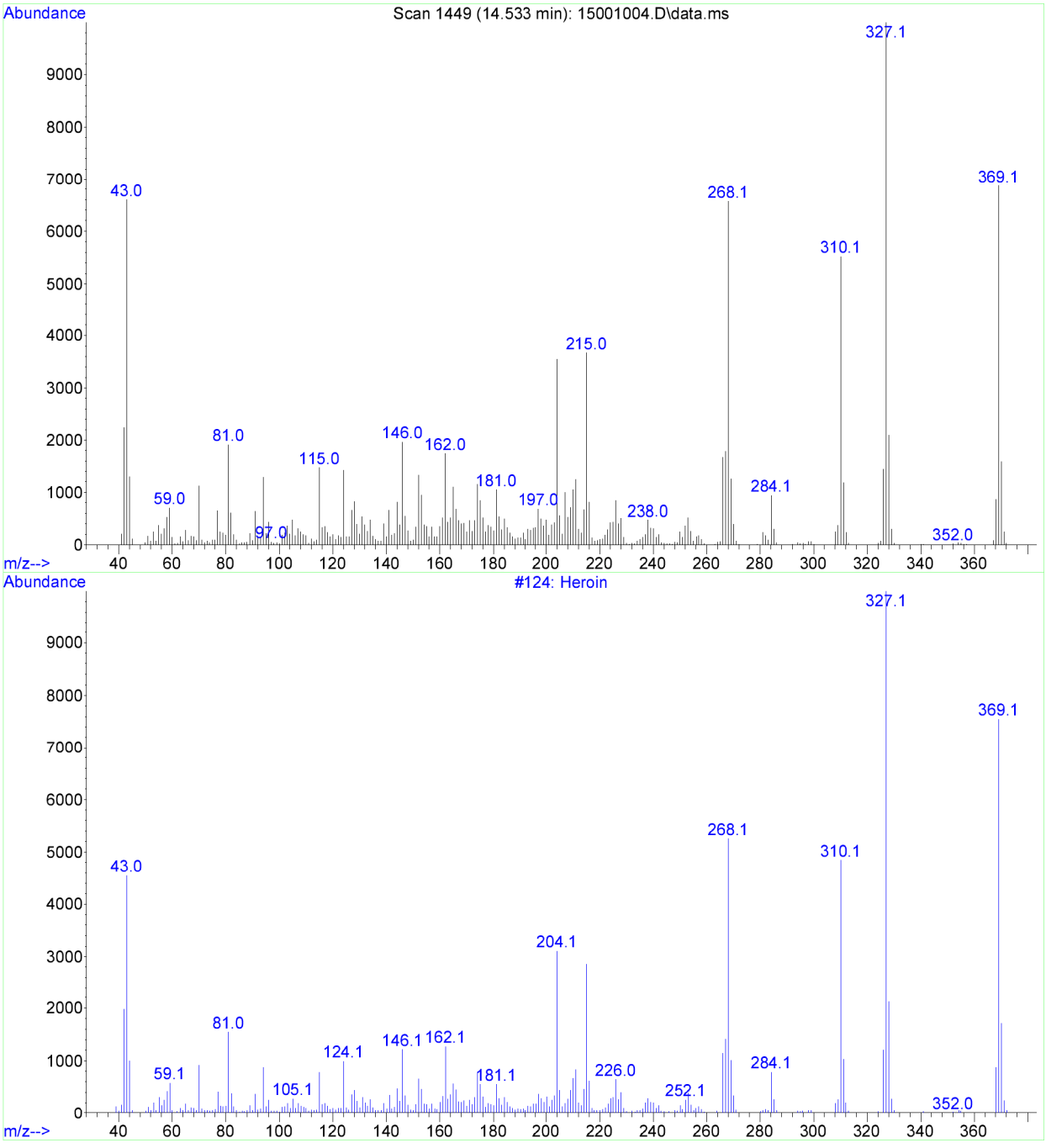
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File       :D:\MassHunter\GCMS\1\GCMS 3 data\Standards\Weekly Check\2025
...          Data\062325\15001004.D
Operator   : DrugChem-HP\admin
Instrument :   BCCL SD GCMS 3
Acquired   : 23 Jun 2025  08:27     using AcqMethod DrugTest35.M
Sample Name: CAYMAN GC/MS MIX 3 (R-24-060)                  000002667
Misc Info  :                                                000002667
```



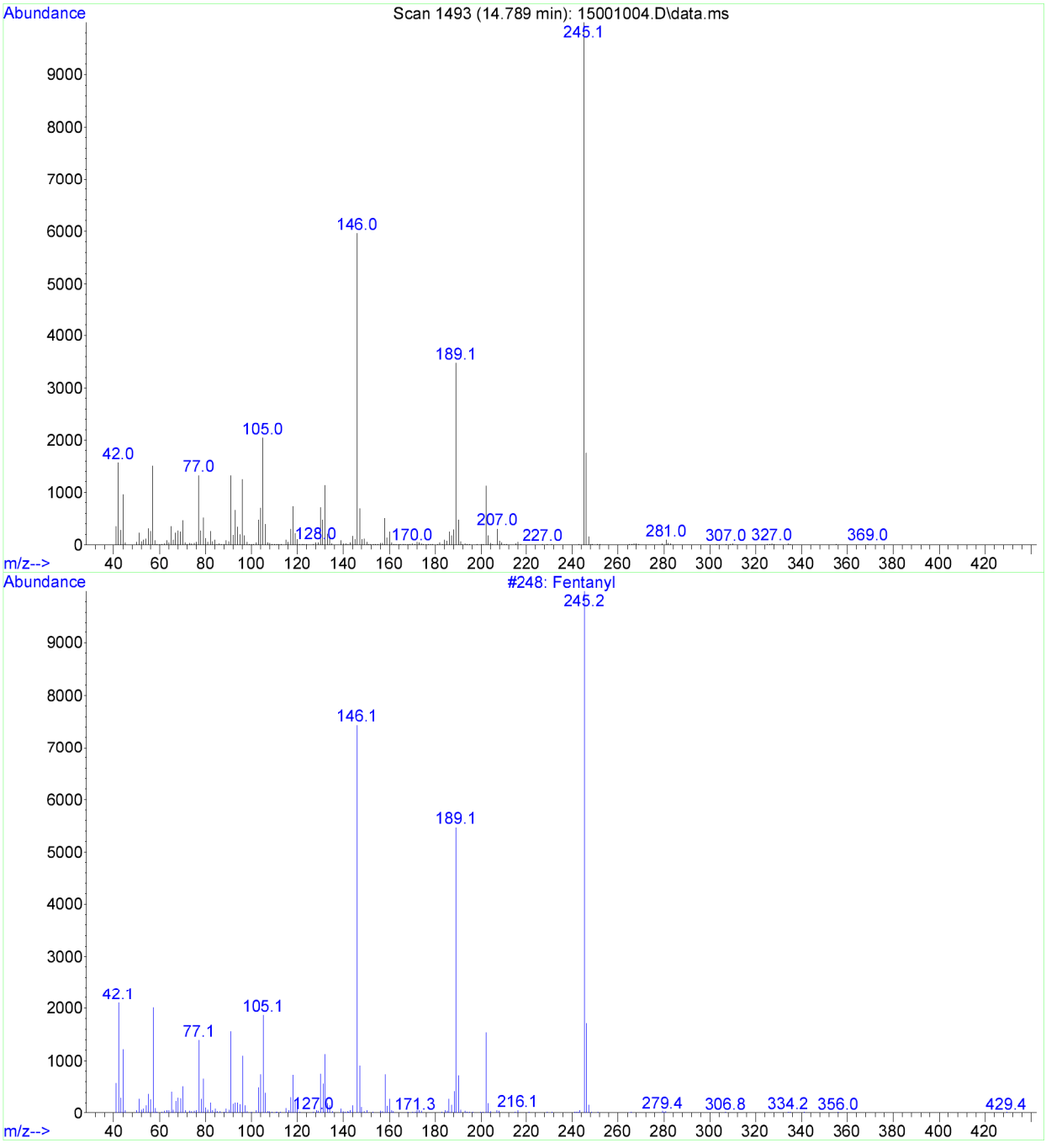
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File       :D:\MassHunter\GCMS\1\GCMS 3 data\Standards\Weekly Check\2025
...          Data\062325\15001004.D
Operator   : DrugChem-HP\admin
Instrument :   BCCL SD GCMS 3
Acquired   : 23 Jun 2025  08:27     using AcqMethod DrugTest35.M
Sample Name: CAYMAN GC/MS MIX 3 (R-24-060)                  000002667
Misc Info  :                                                000002667
```



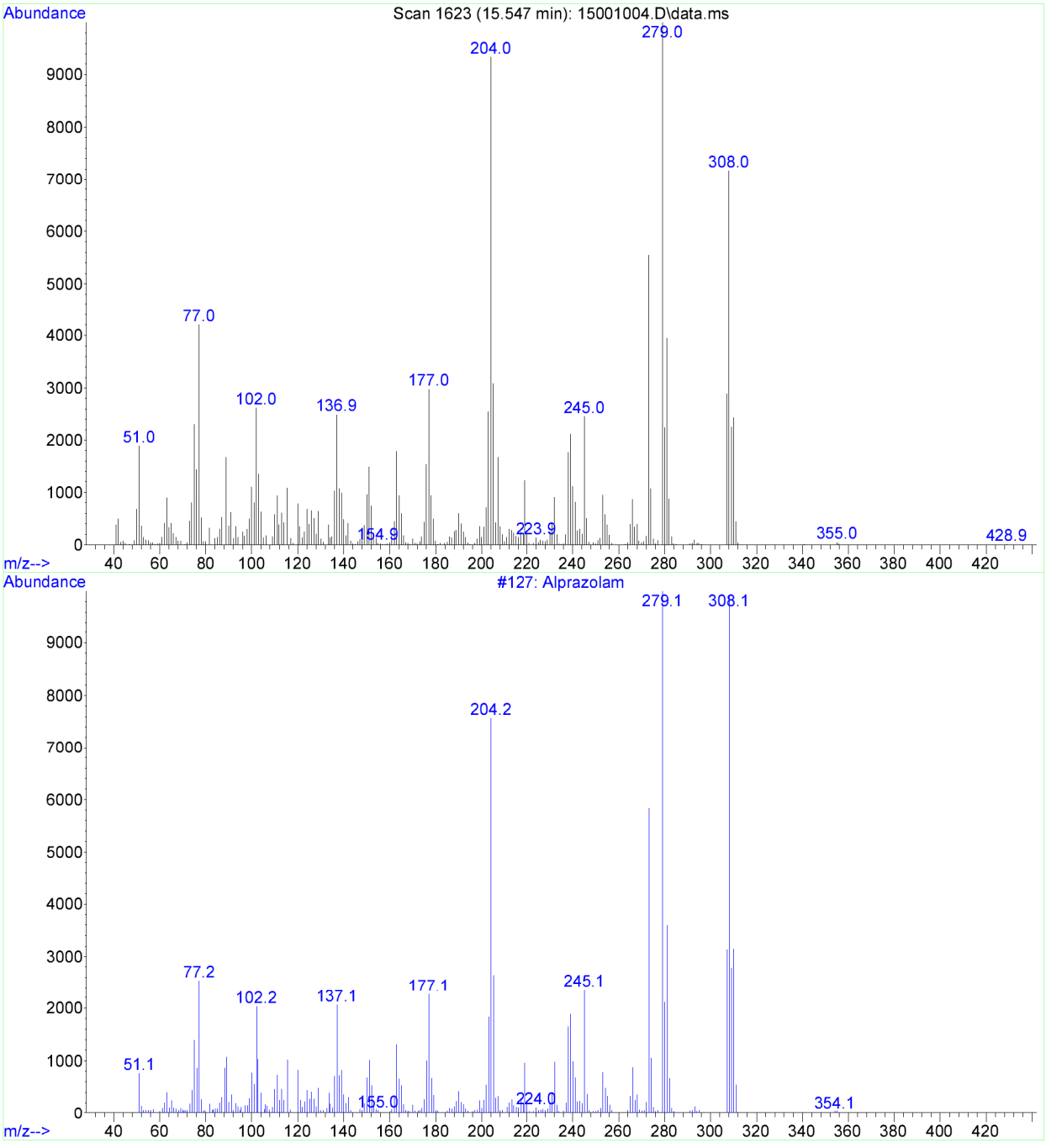
File :D:\MassHunter\GCMS\1\GCMS 3 data\Standards\Weekly Check\2025
... Data\062325\15001004.D
Operator : DrugChem-HP\admin
Instrument : BCCL SD GCMS 3
Acquired : 23 Jun 2025 08:27 using AcqMethod DrugTest35.M
Sample Name: CAYMAN GC/MS MIX 3 (R-24-060) 000002667
Misc Info : 000002667



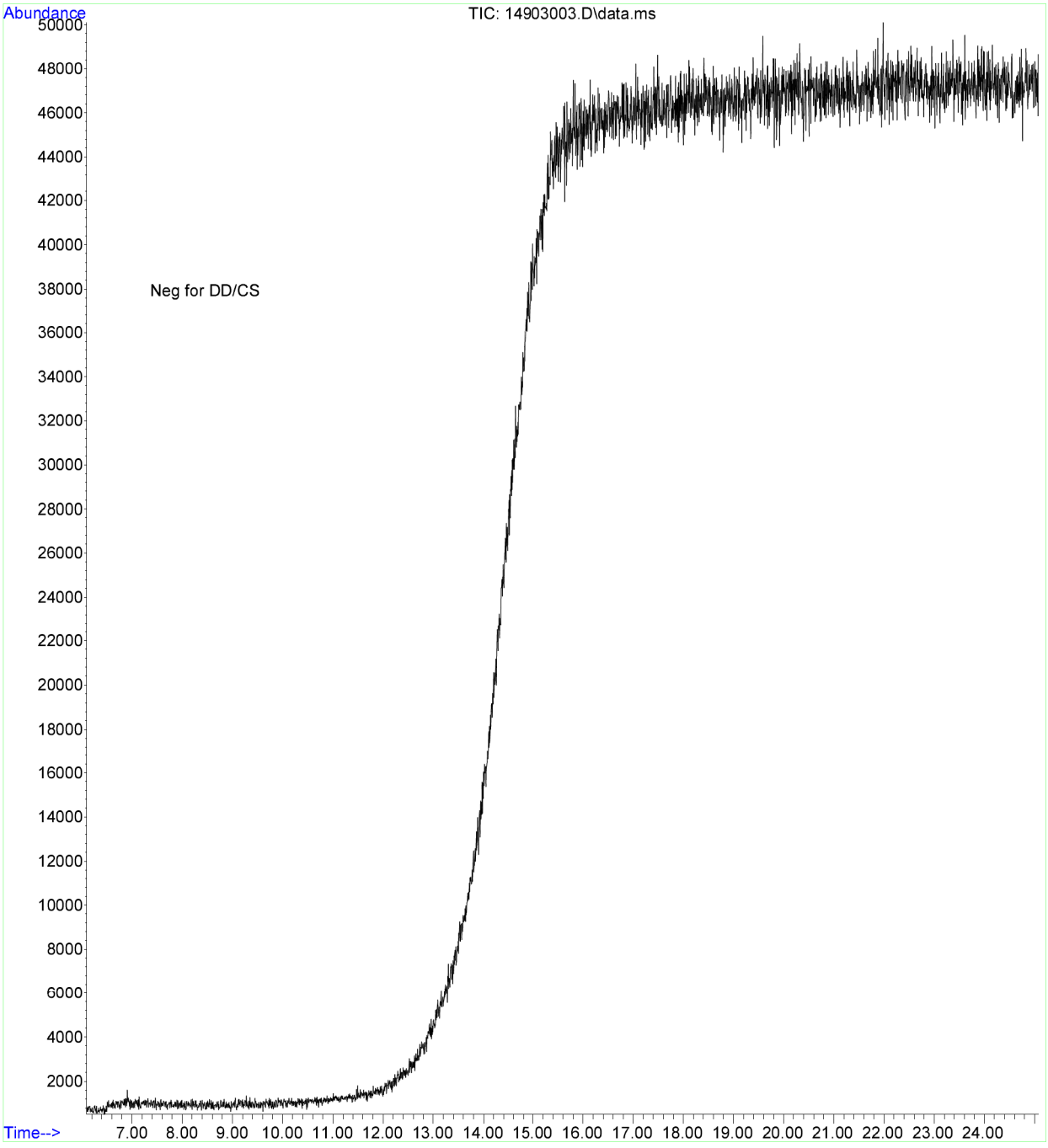
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File       :D:\MassHunter\GCMS\1\GCMS 3 data\Standards\Weekly Check\2025
...          Data\062325\15001004.D
Operator   : DrugChem-HP\admin
Instrument :   BCCL SD GCMS 3
Acquired   : 23 Jun 2025  08:27     using AcqMethod DrugTest35.M
Sample Name: CAYMAN GC/MS MIX 3 (R-24-060)                  000002667
Misc Info  :                                                000002667
```



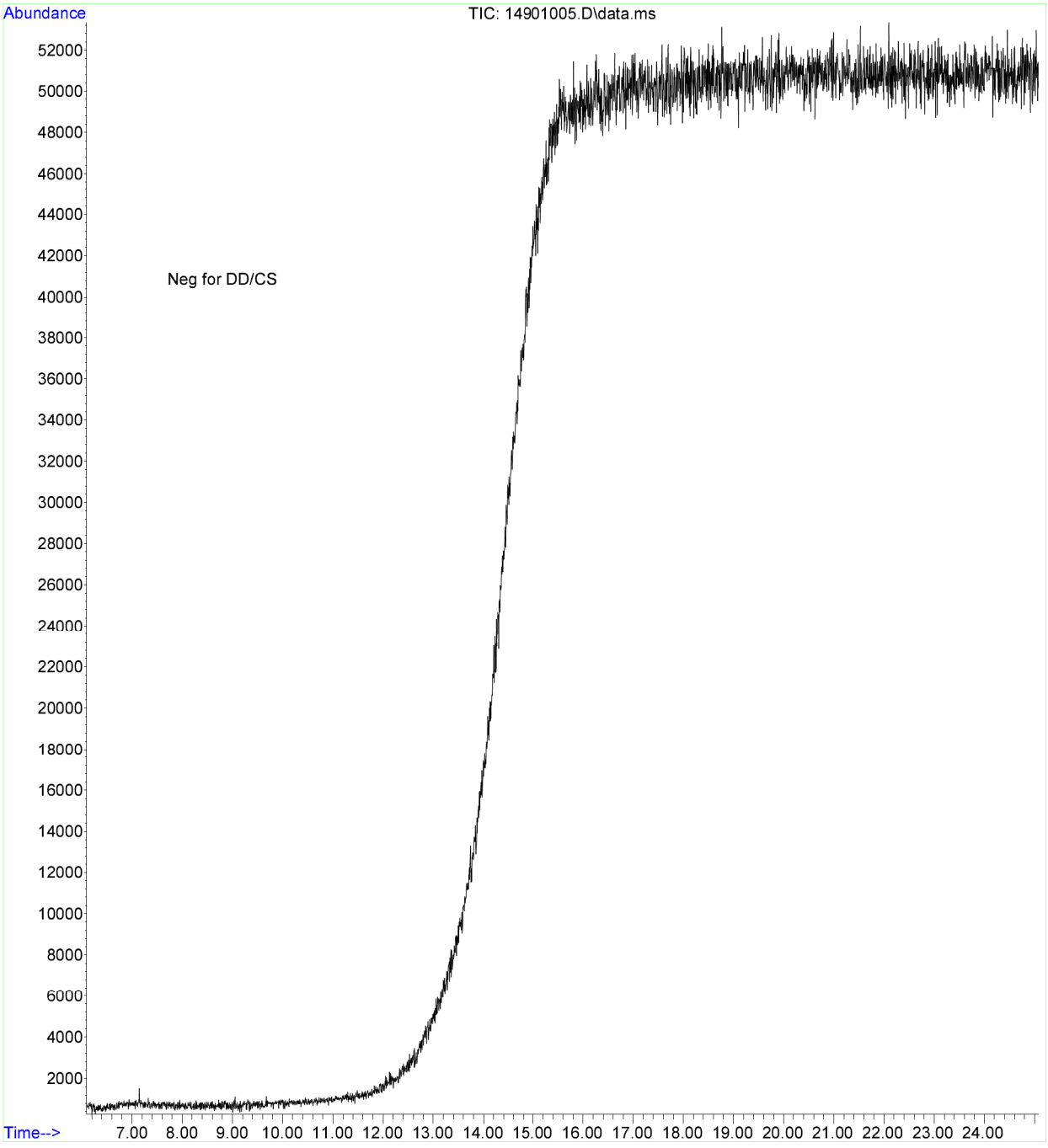
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File       :D:\MassHunter\GCMS\1\GCMS 3 data\Standards\Weekly Check\2025
...          Data\062325\15001004.D
Operator   : DrugChem-HP\admin
Instrument :   BCCL SD GCMS 3
Acquired   : 23 Jun 2025  08:27     using AcqMethod DrugTest35.M
Sample Name: CAYMAN GC/MS MIX 3 (R-24-060)                  000002667
Misc Info  :                                                000002667
```



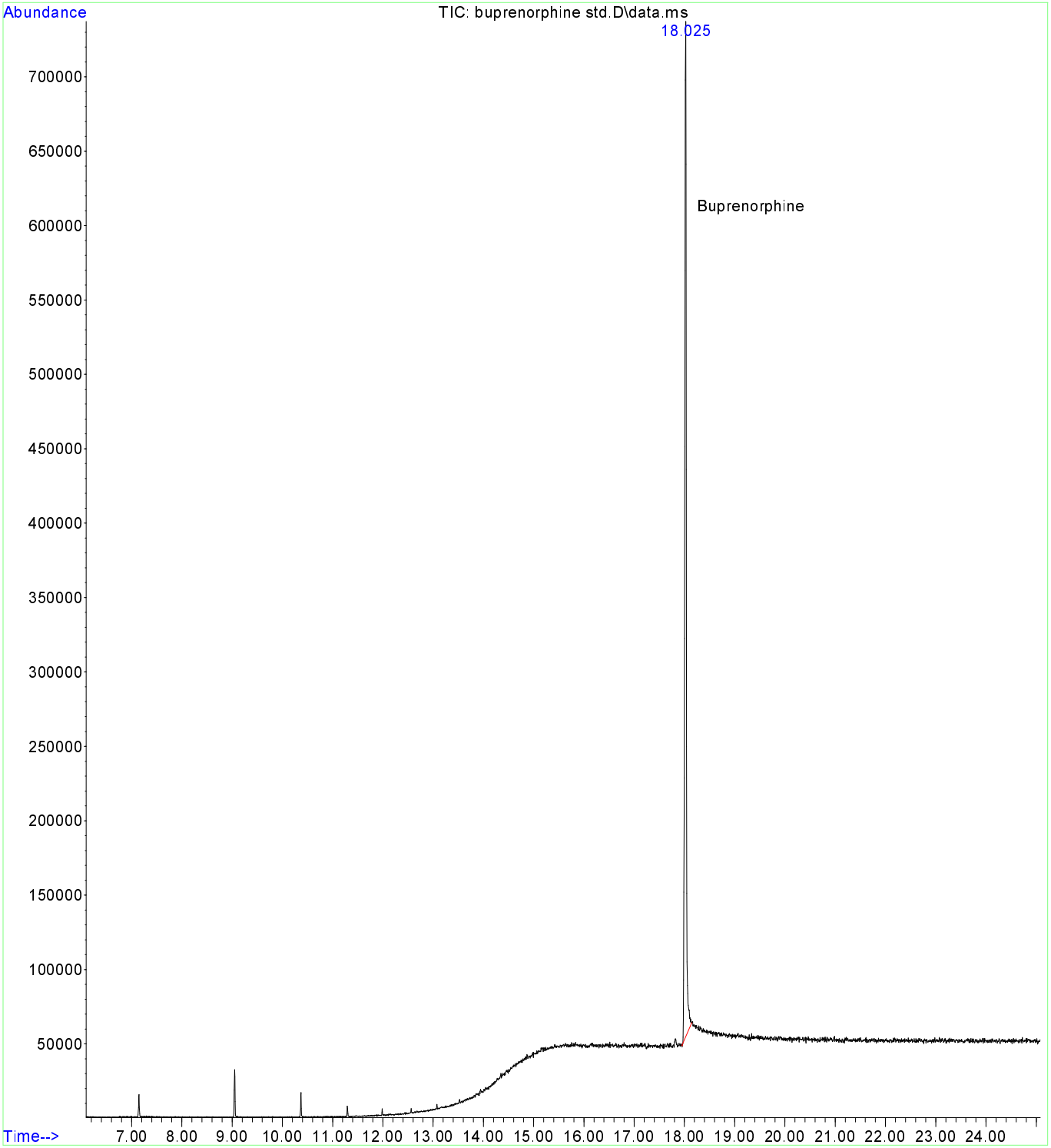
File :D:\MassHunter\GCMS\1\GCMS 3 data\Standards\Weekly Check\2025
... Data\062325\14903003.D
Operator : DrugChem-HP\admin
Instrument : BCCL SD GCMS 3
Acquired : 23 Jun 2025 07:59 using AcqMethod DrugTest35.M
Sample Name: BLANK (C-19-0068) PRIOR TO CAYMAN GC/MS MIX 3 (R-24-060) 000002666
Misc Info : 000002666



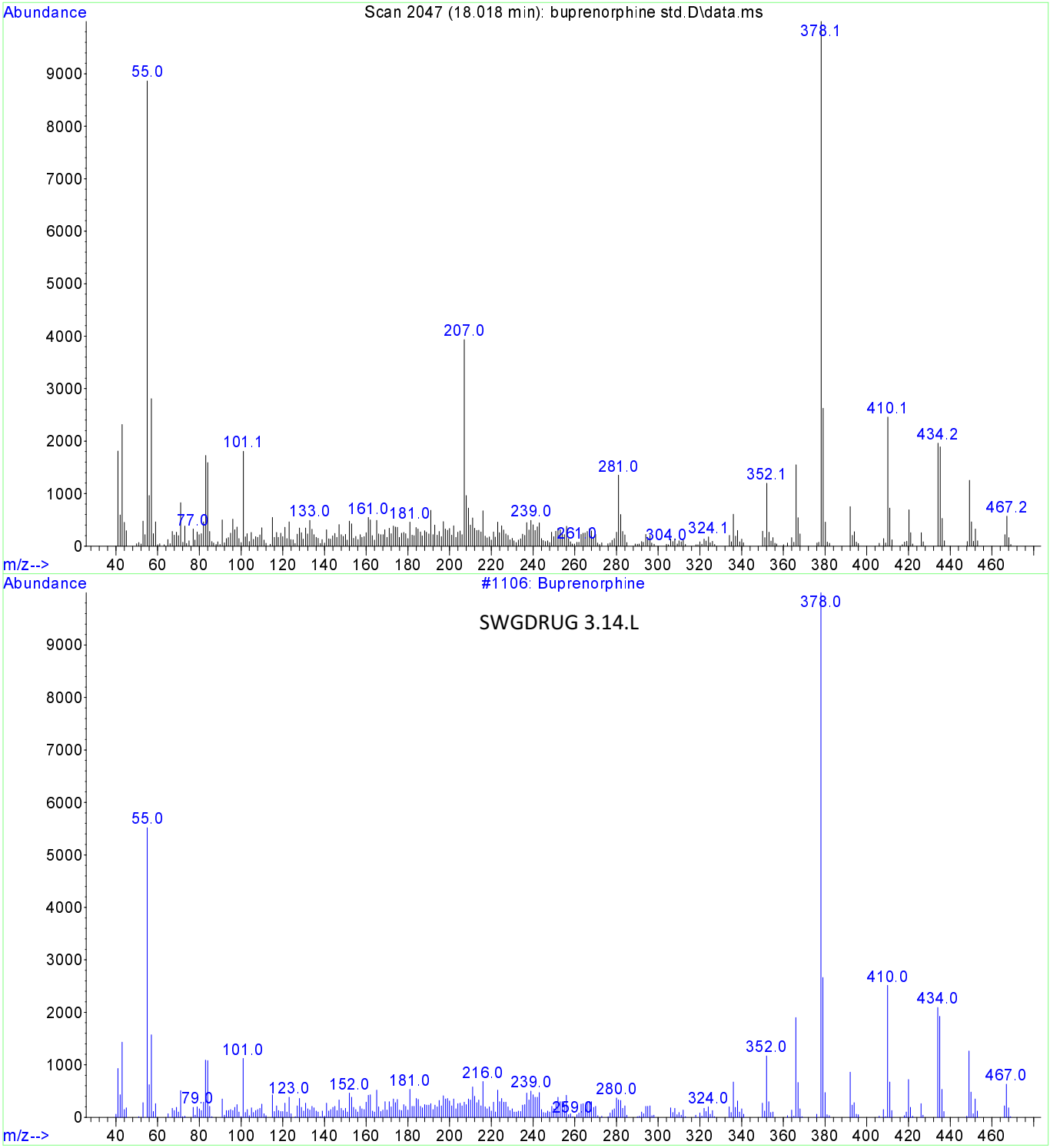
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File       :D:\MassHunter\GCMS\1\GCMS 3 data\Standards\Weekly Check\2025
...          Data\062325\14901005.D
Operator   : DrugChem-HP\admin
Instrument :   BCCL SD GCMS 3
Acquired   : 23 Jun 2025  08:56     using AcqMethod DrugTest35.M
Sample Name: BLANK (C-19-0068) - INSTRUMENT READY           000002666
Misc Info  :                                                000002666
```



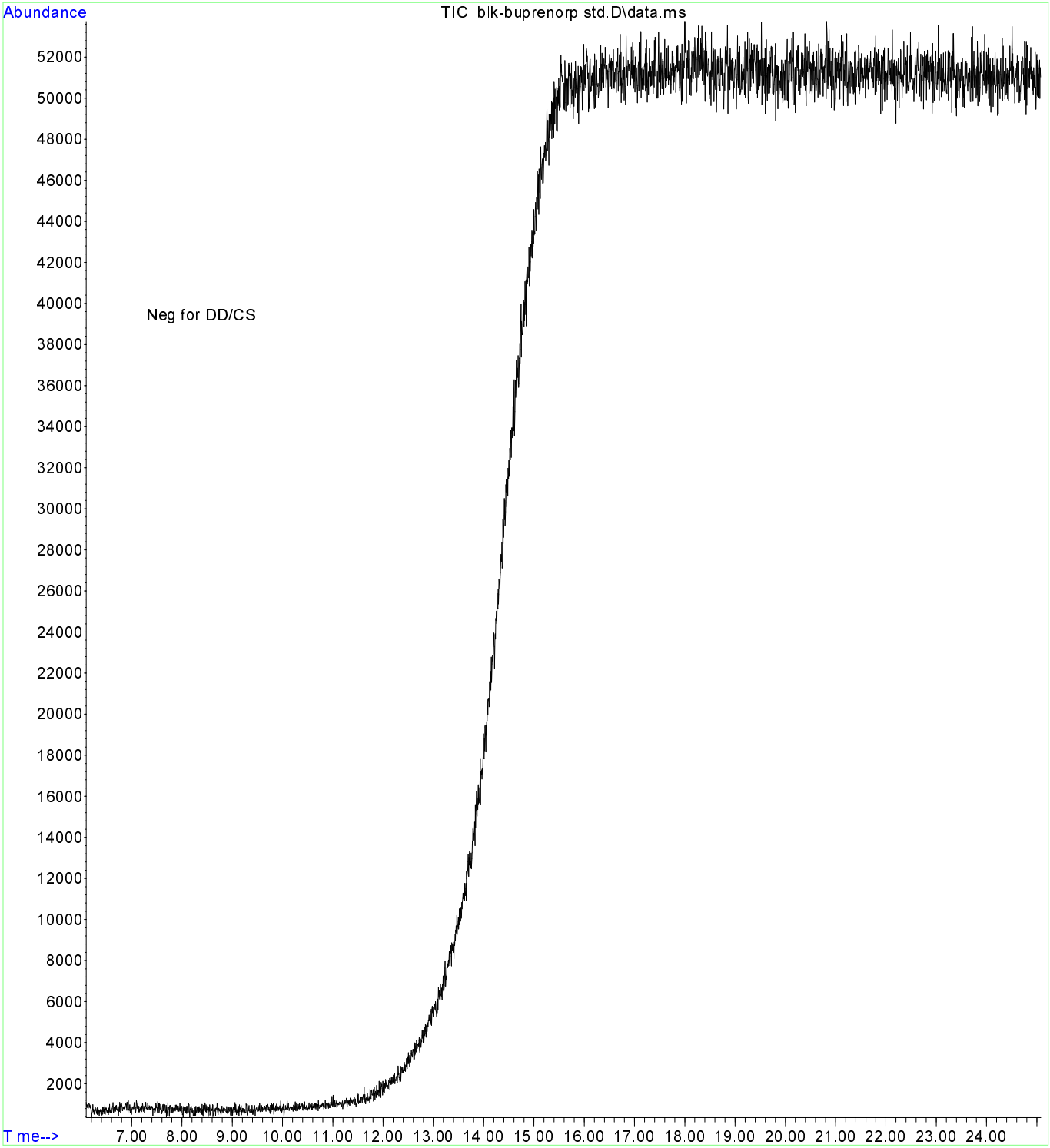
File :D:\MassHunter\GCMS\1\GCMS 3 data\2025 Data\062525\buprenorph
... ine std.D
Operator : DrugChem-HP\admin
Instrument : BCCL SD GCMS 3
Acquired : 25 Jun 2025 14:43 using AcqMethod DrugTest35.M
Sample Name: Buprenorphine std (S-22-008) 000005957
Misc Info : RT determination 000005957



```
File       :D:\MassHunter\GCMS\1\GCMS 3 data\2025 Data\062525\buprenorph
...         ine std.D
Operator   : DrugChem-HP\admin
Instrument :   BCCL SD GCMS 3
Acquired   : 25 Jun 2025  14:43     using AcqMethod DrugTest35.M
Sample Name: Buprenorphine std (S-22-008)                    000005957
Misc Info  : RT determination                                000005957
```



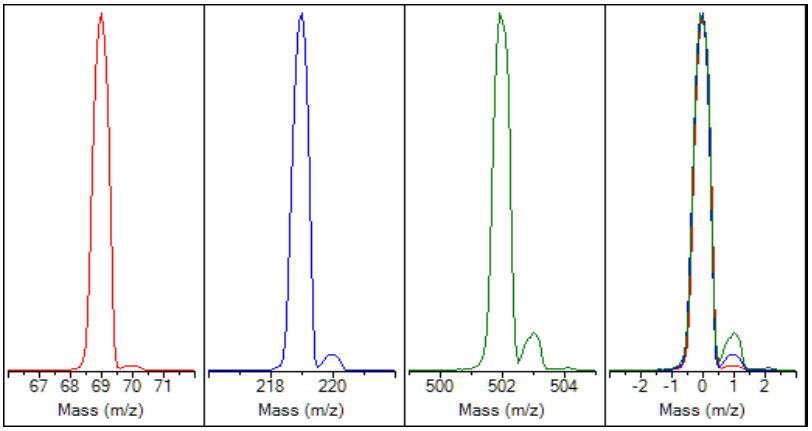
File :D:\MassHunter\GCMS\1\GCMS 3 data\2025 Data\062525\blk-bupren
... orp std.D
Operator : DrugChem-HP\admin
Instrument : BCCL SD GCMS 3
Acquired : 25 Jun 2025 14:14 using AcqMethod DrugTest35.M
Sample Name: blank prior to Buprenorphine std (S-22-008) 000002228
Misc Info : DCM (C-22-0015B) + MeOH (C-20-0050B) 000002228



Autotune - 5977

6/29/2025 3:09:26 PM (UTC-5:00) BCCL SD GCMS 3

D:\MASSHUNTER\GCMS\1\5977\atune.u US1329M205



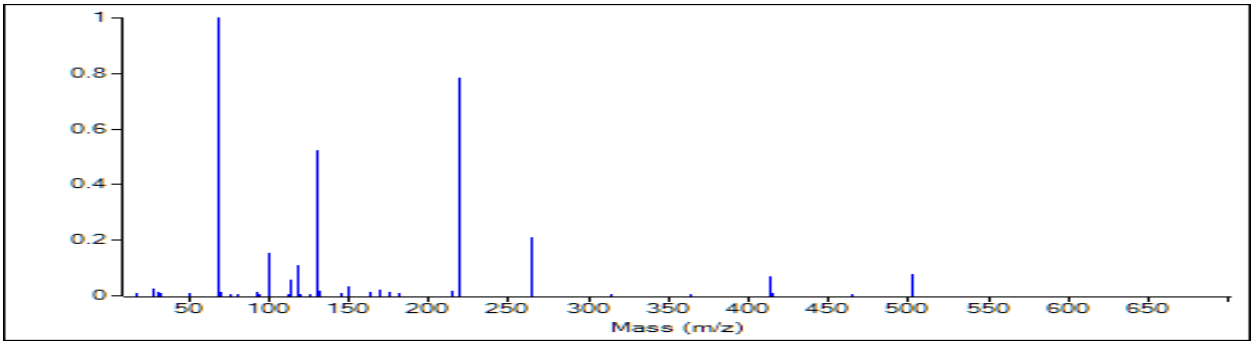
Ion Polarity	Pos	Mass Gain	-355
Emission	34.6	Mass Offset	-36
Electron Energy	70.0	Amu Gain	1678
Filament	2	Amu Offset	119.69
Repeller	34.90	Width219	-0.017
Ion Focus	88.4	DC Polarity	Pos
Entrance Lens	20.2	HED Enable	On
Ent Lens Offset	12.19	EM Volts	1782.3
Ion Body	0.00	Extractor Lens	0.00
		Scan Speed	3
		Averages	3
PFTBA	Open	Step Size	0.10

Temperatures and Pressures

MS Source	230	Turbo Speed	100.0
MS Quad	150	Hi Vac	9.17e-06

Mass	Abund	Rel Abund	Pw50
69.00	397,848	100.0%	0.60
219.00	305,187	76.7%	0.60
501.90	29,358	7.4%	0.61

Low	High	Step	Speed	Threshold	Peaks	Base	Abundance	Total Ion
10.00	701.00	0.10	3	100	93	69.00	381,312	1,270,019



Mass	Abund	Rel Abund	Iso Mass	Iso Abund	Iso Ratio
69.00	381,312	100.00	70.00	4,325	1.13
219.00	299,072	78.43	220.00	13,082	4.37
502.00	29,360	7.70	503.00	2,770	9.43

Air/Water Check: H20 ~0.9% N2 ~2.4% O2 ~0.7% CO2 ~0.1% N2/H20 ~262.9%

Column(1) Flow: 0.80 Column(2): 0.00 ml/min Interface Temp: 280

Ramp Criteria:

Ion Focus maximum 90 volts using ion 502; Electron Multiplier Gain 49739.983

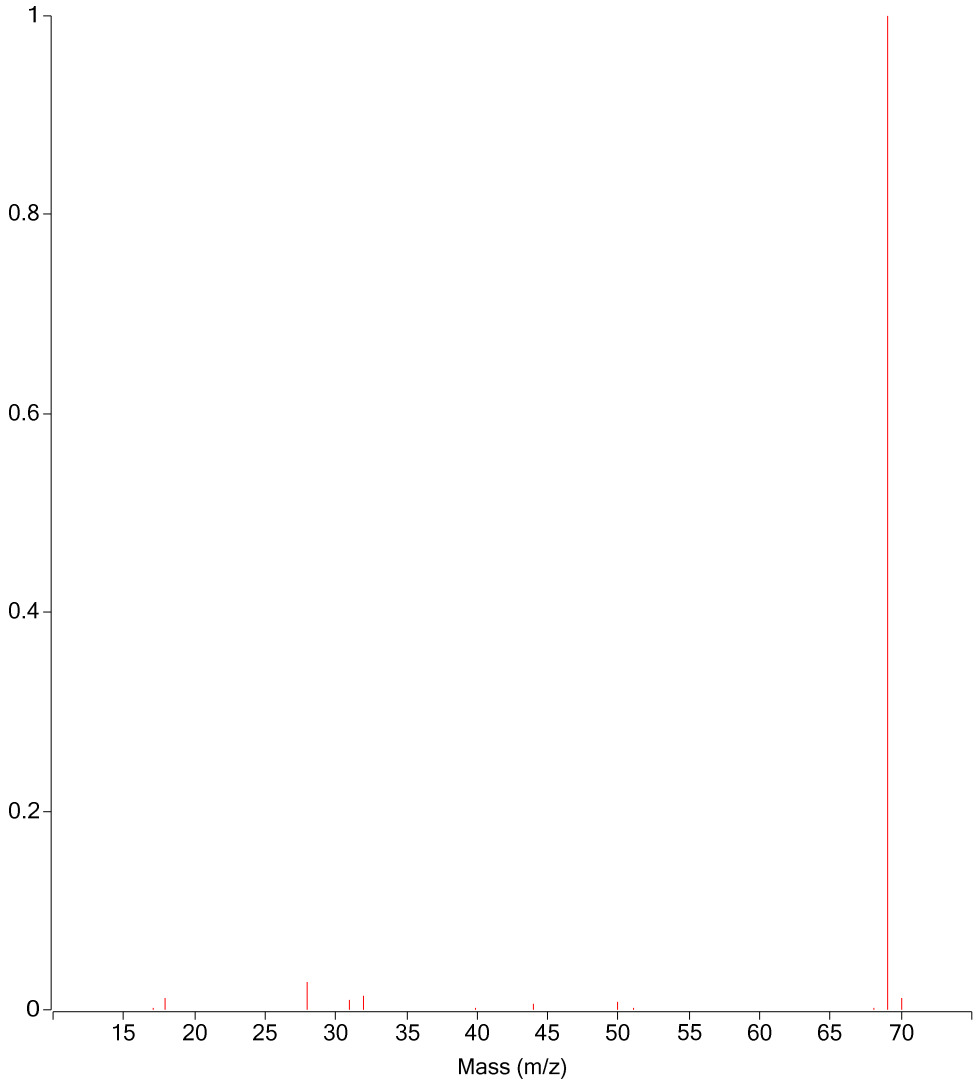
Repeller maximum 35 volts using ion 219; Gain Factor 0.4974

Mass Gain Values(Scan Speed): -350(3) -350(2) -347(1) -341(0) -287(FS1) -391(FS2)

TARGET MASS:	50	69	131	219	414	502	1050
Amu Offset	119.7	119.7	119.7	119.7	119.7	119.7	119.7
Entrance Lens Offset	12.2	12.2	12.2	12.2	12.2	12.2	12.2

597x Air and Water Check

Instrument: BCCL SD GCMS 3
Sun Jun 29 15:04:38 2025 D:\MassHunter\GCMS\1\5977\



Current Params used: atune.u

Relative abundances:

18/69 =	1.15	Water%	(counts=8774)
28/69 =	2.89	Nitrogen%	(counts=21960)
32/69 =	1.34	Oxygen%	(counts=10162)
44/69 =	0.54	Carbon Dioxide%	(counts=4101)
28/18 =	250.28	Nitrogen/Water%	

Instrument Name : BCCL SD GCMS 3
DC Polarity : Positive
Filament 2

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	503.02	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%)	4.41	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	79.74	OK
Ratio of 502 to 69 should be > 2.4% and is	7.94	OK
Mass 69 Precursor (<= 3%)	0.15	OK
Mass 219 Precursor (<= 6%)	0.54	OK
Mass 502 Precursor (<= 12%)	0.80	OK

597x Air and Water Check
Sun Jun 29 15:13:52 2025 Instrument: BCCL SD GCMS 3
D:\MASSHUNTER\GCMS\1\5977\atune.u US1329M205

Testing for a leak in the system

Ratio of 18 to 69 (<20%)	0.83	OK
Ratio of 28 to 69 (<10%)	2.49	OK
Electron Multiplier Voltage	1782	OK

Tune portion of System Verification passed.

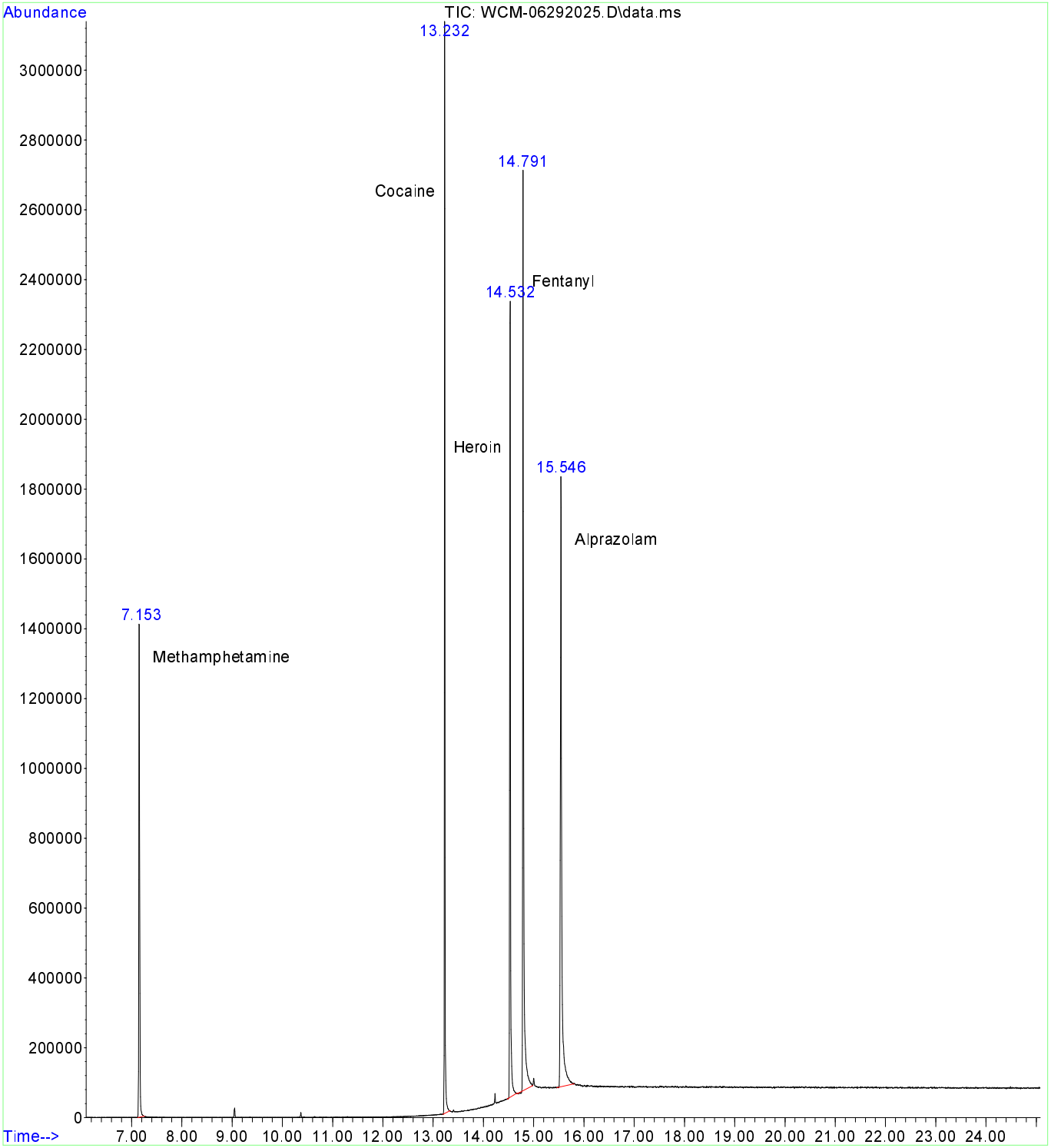
BCCL GC/MS #3
Retention Times for the Week of:

06/29/2025 - 06/29/2025

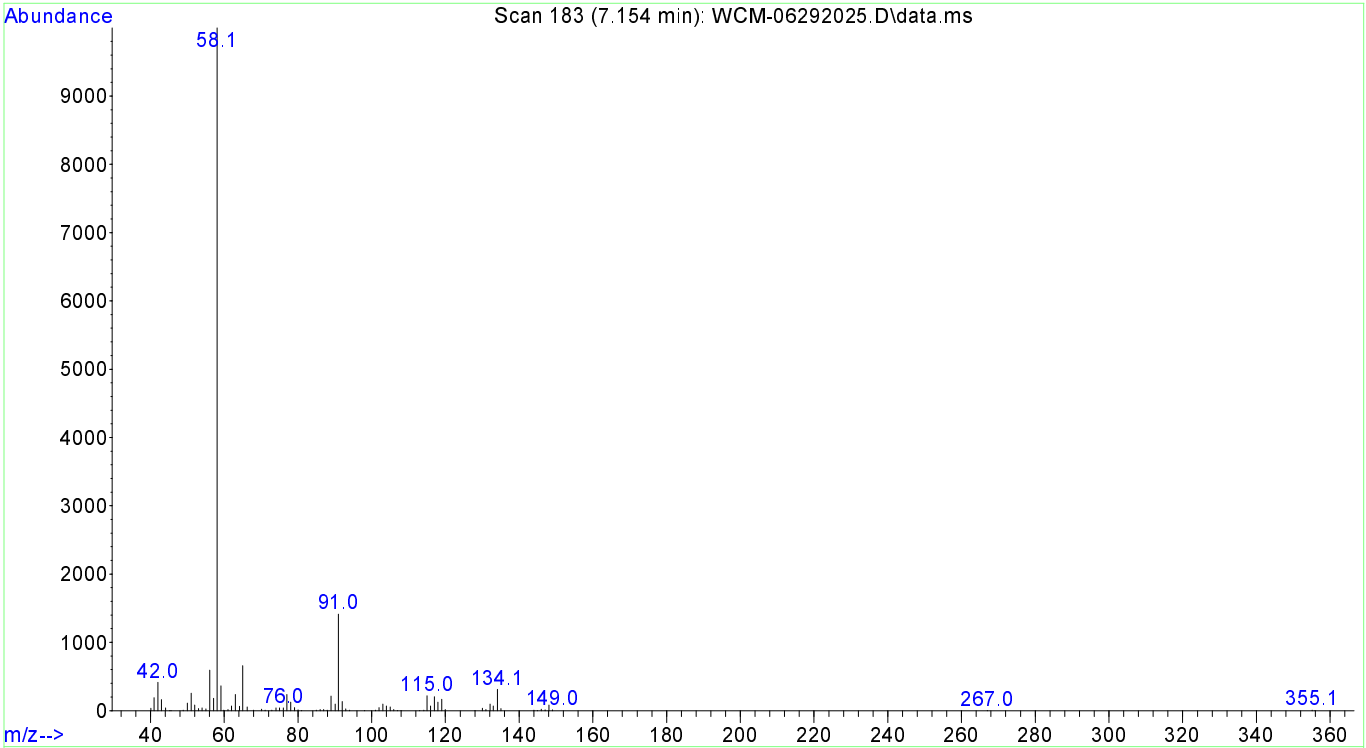
[X] **Tune: KB 06/29/2025 - Autotune**

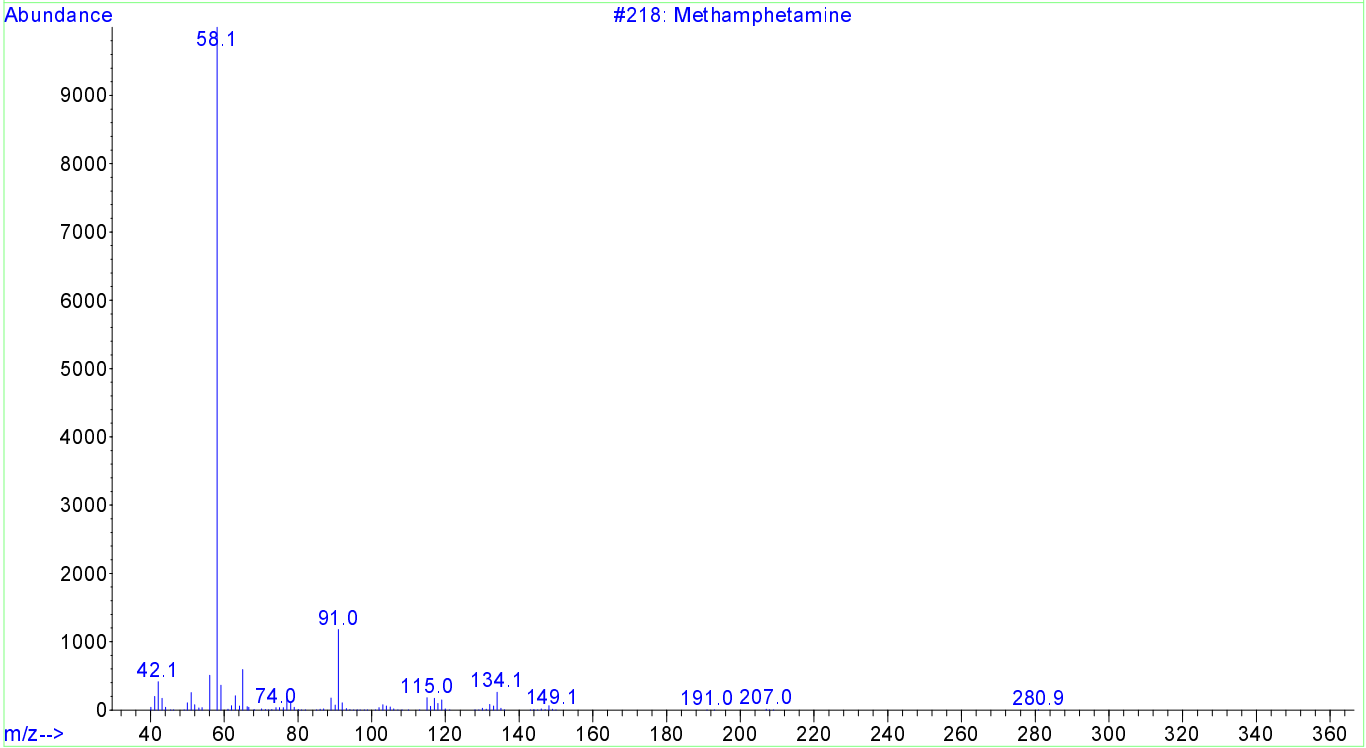
Standard	Standard #	Method	Retention Time	1% Window	
Methamphetamine	R-24-060	DrugTest35	7.153	7.081	7.224
Cocaine	R-24-060	DrugTest35	13.232	13.099	13.364
Heroin	R-24-060	DrugTest35	14.532	14.386	14.677
Fentanyl	R-24-060	DrugTest35	14.791	14.643	14.938
Alprazolam	R-24-060	DrugTest35	15.546	15.390	15.701

```
File       :D:\MassHunter\GCMS\1\GCMS 3 data\Standards\Weekly Check\2025
...          Data\062925\WCM-06292025.D
Operator   : DrugChem-HP\admin
Instrument :   BCCL SD GCMS 3
Acquired   : 29 Jun 2025  16:39     using AcqMethod DrugTest35.M
Sample Name: Cayman GCMS Mix 3 (R-24-060)                    000002667
Misc Info  : Cayman GCMS Mix 3 (R-24-060)                    000002667
```

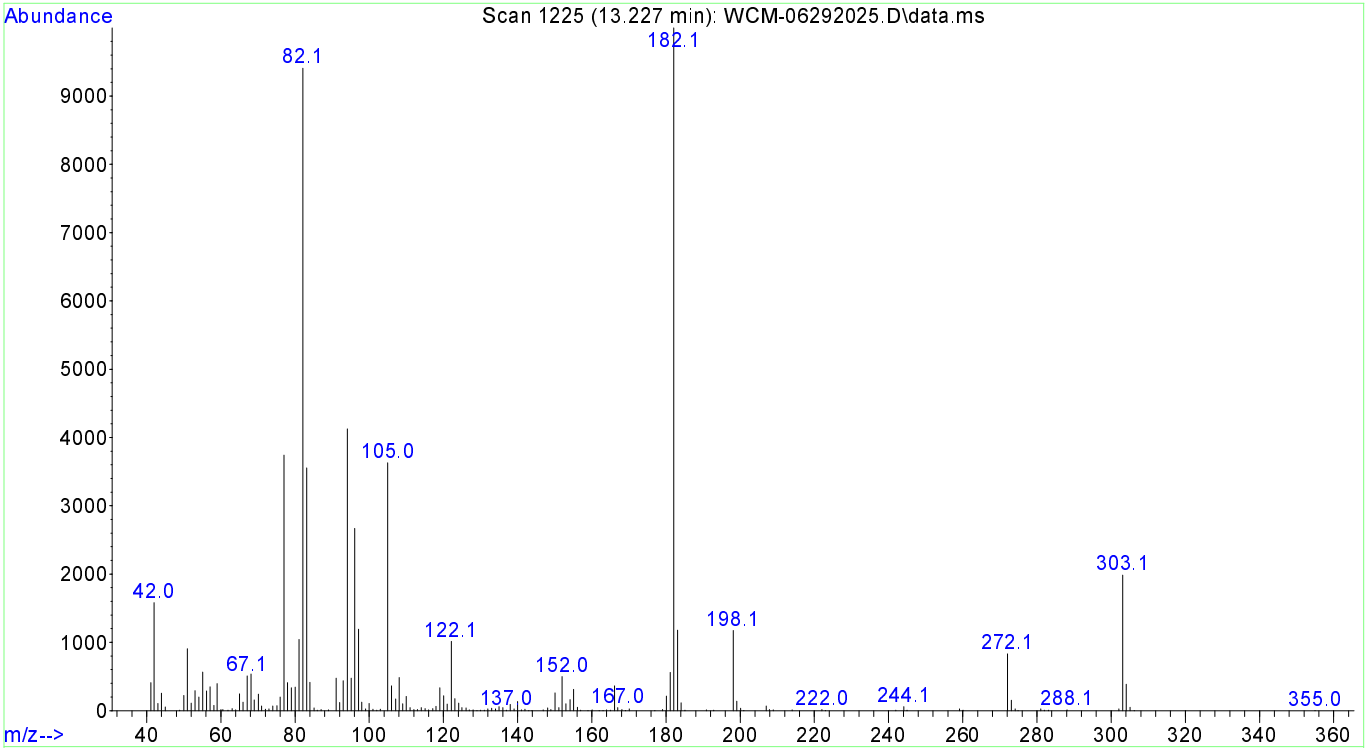


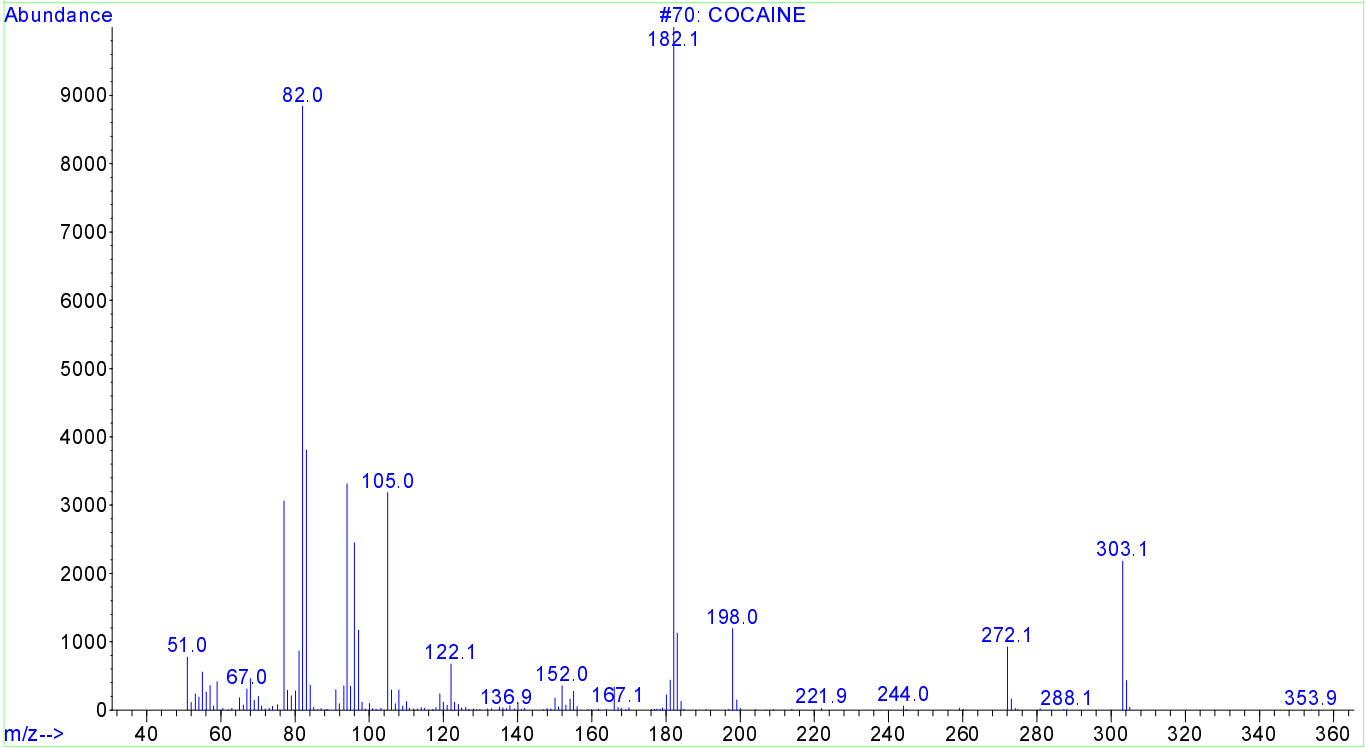
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...          Data\062925\WCM-06292025.D
Operator   : DrugChem-HP\admin
Instrument :   BCCL SD GCMS 3
Acquired   : 29 Jun 2025  16:39     using AcqMethod DrugTest35.M
Sample Name: Cayman GCMS Mix 3 (R-24-060)                    000002667
Misc Info  : Cayman GCMS Mix 3 (R-24-060)                    000002667
```



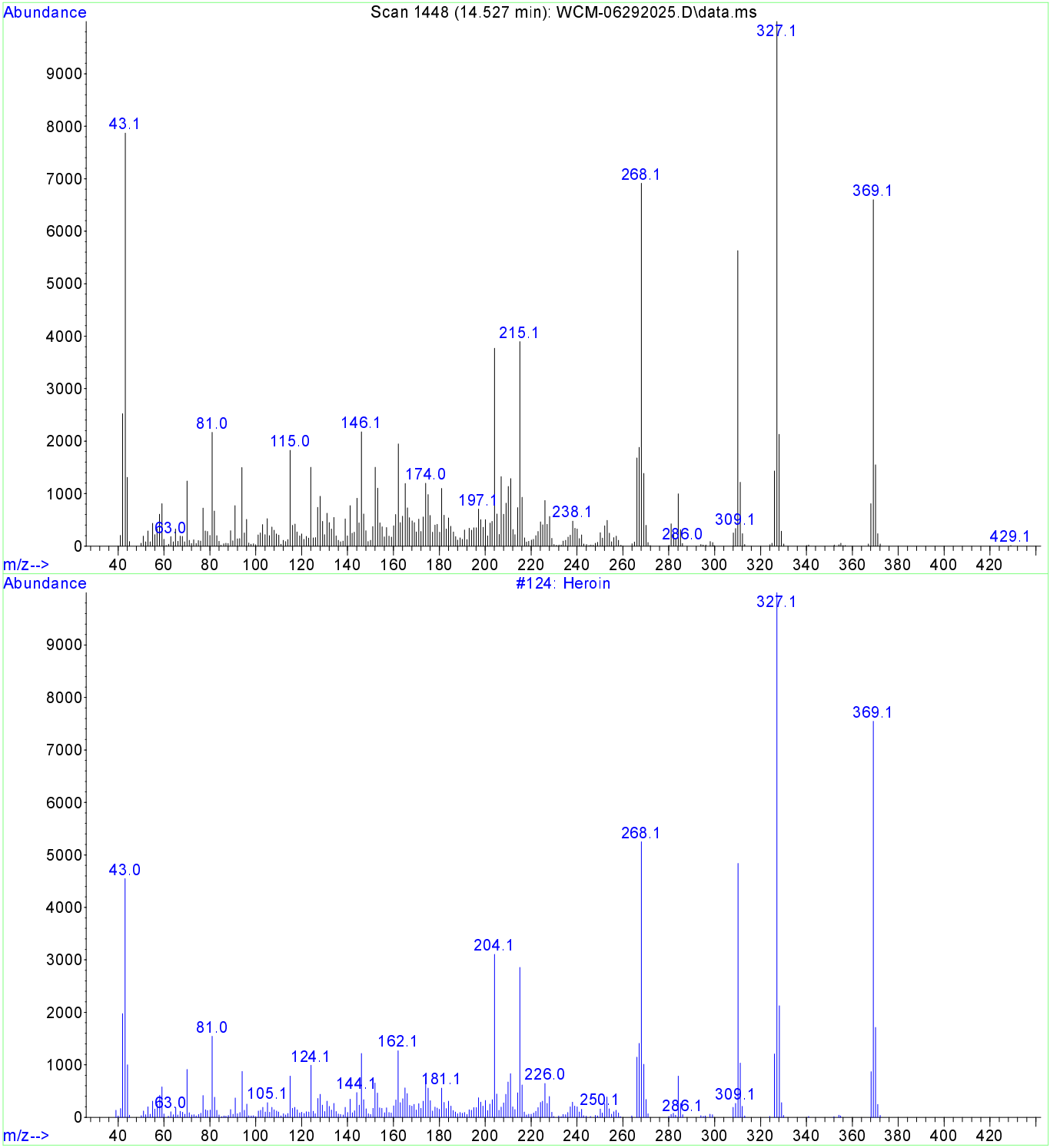


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...          Data\062925\WCM-06292025.D
Operator   : DrugChem-HP\admin
Instrument :   BCCL SD GCMS 3
Acquired   : 29 Jun 2025  16:39     using AcqMethod DrugTest35.M
Sample Name: Cayman GCMS Mix 3 (R-24-060)                    000002667
Misc Info  : Cayman GCMS Mix 3 (R-24-060)                    000002667
```

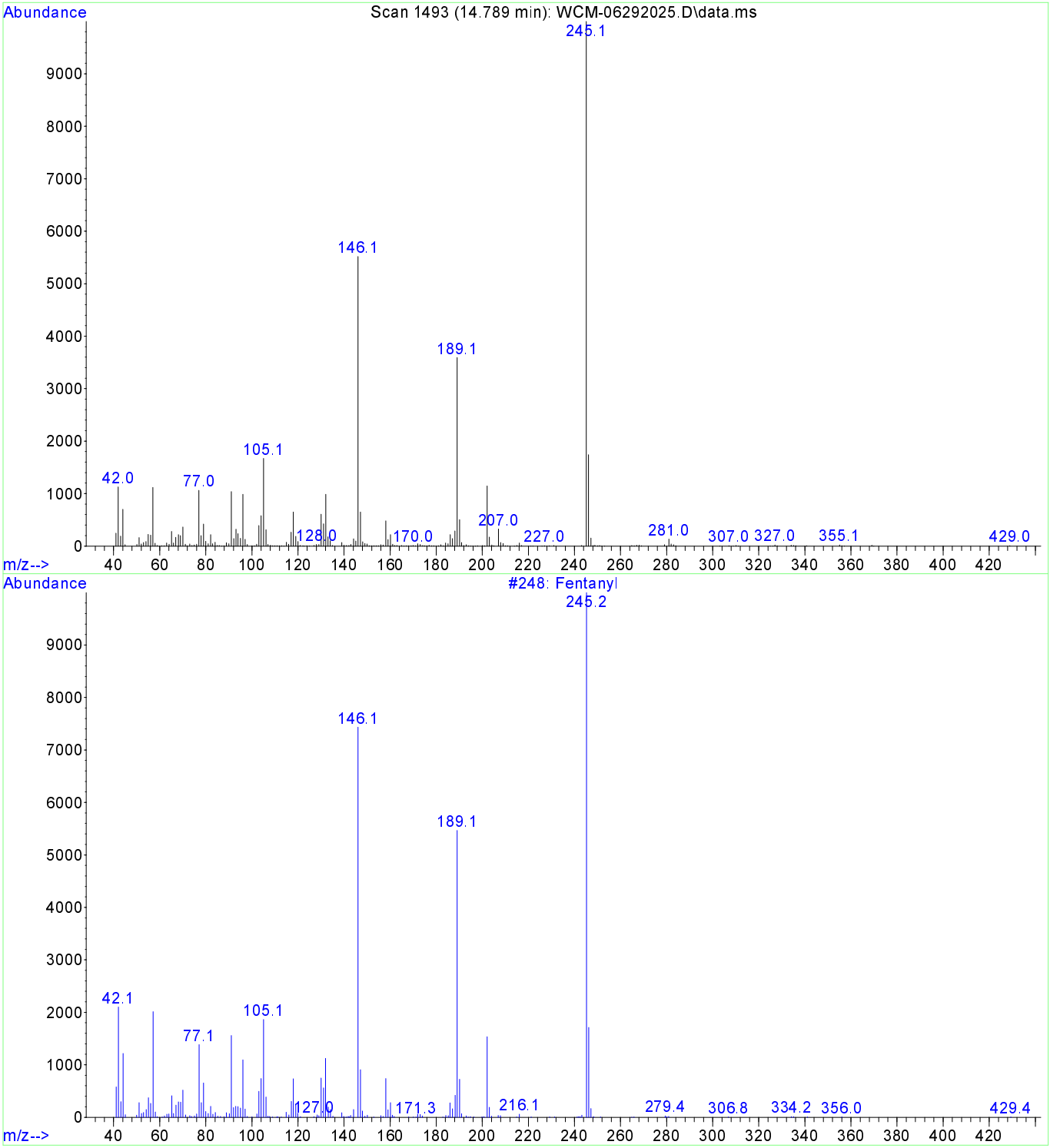




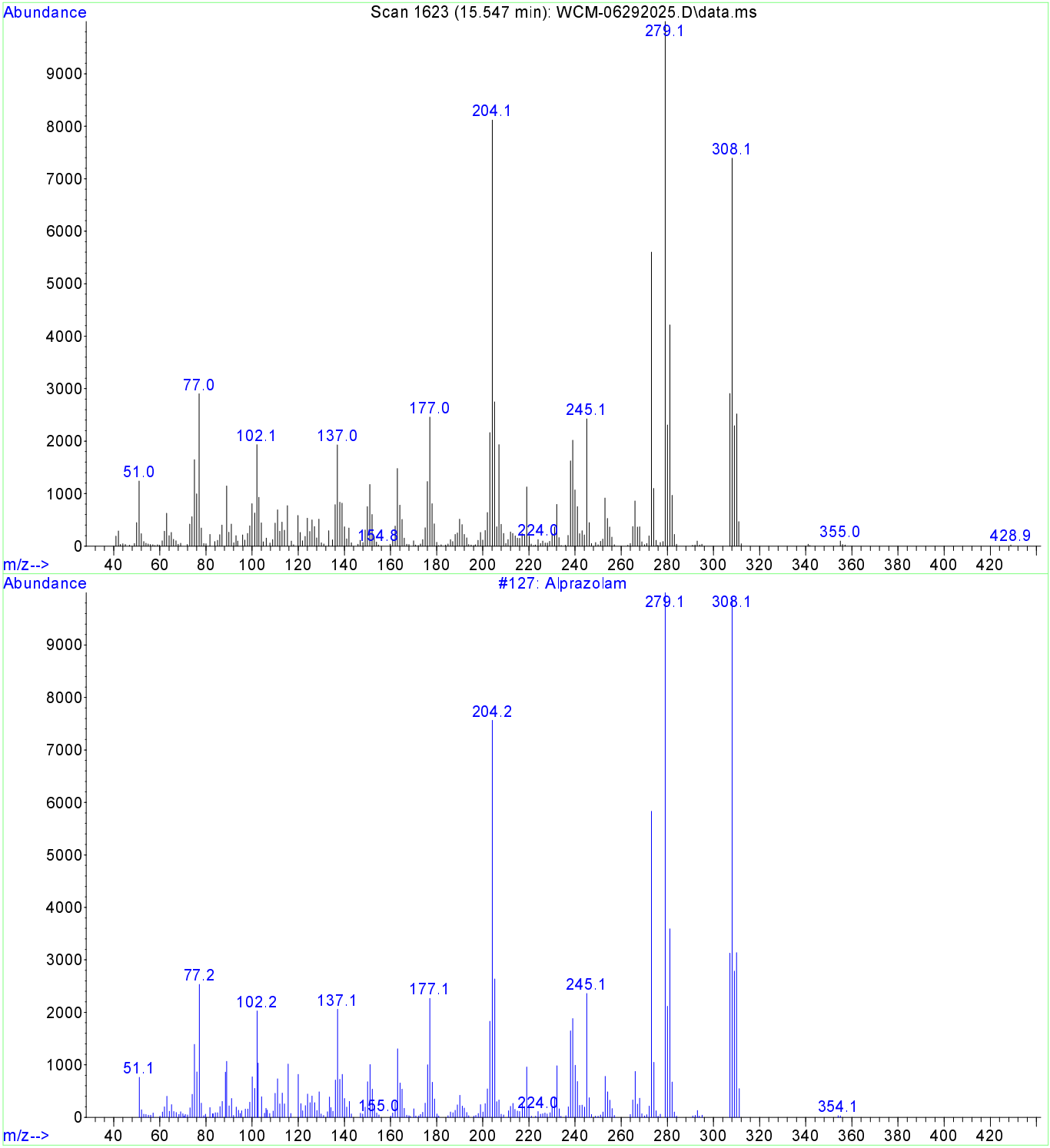
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Operator   : DrugChem-HP\admin
Instrument :   BCCL SD GCMS 3
Acquired   : 29 Jun 2025  16:39     using AcqMethod DrugTest35.M
Sample Name: Cayman GCMS Mix 3 (R-24-060)                    000002667
Misc Info  : Cayman GCMS Mix 3 (R-24-060)                    000002667
```



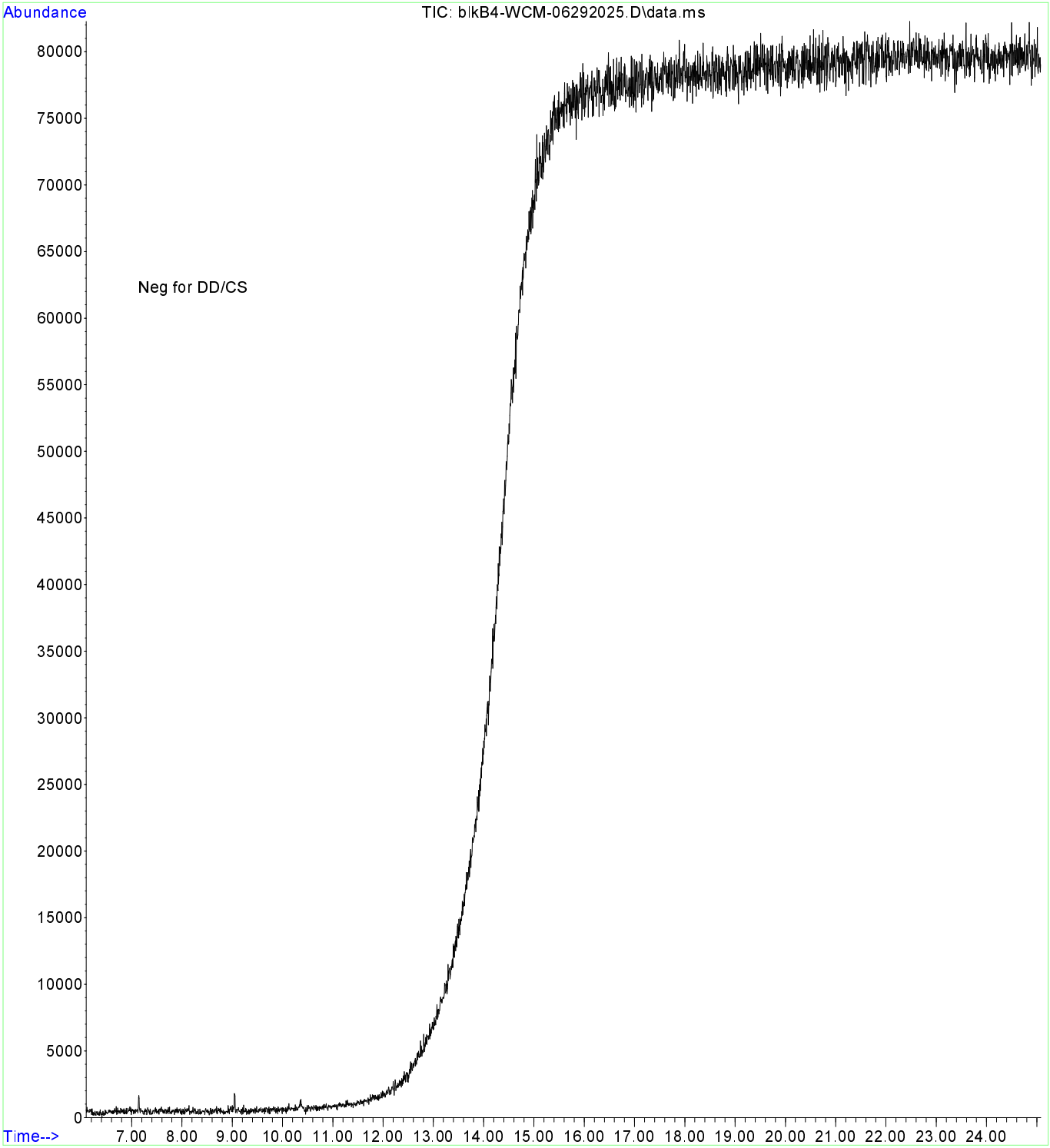
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Operator   : DrugChem-HP\admin
Instrument :   BCCL SD GCMS 3
Acquired   : 29 Jun 2025  16:39     using AcqMethod DrugTest35.M
Sample Name: Cayman GCMS Mix 3 (R-24-060)                    000002667
Misc Info  : Cayman GCMS Mix 3 (R-24-060)                    000002667
```



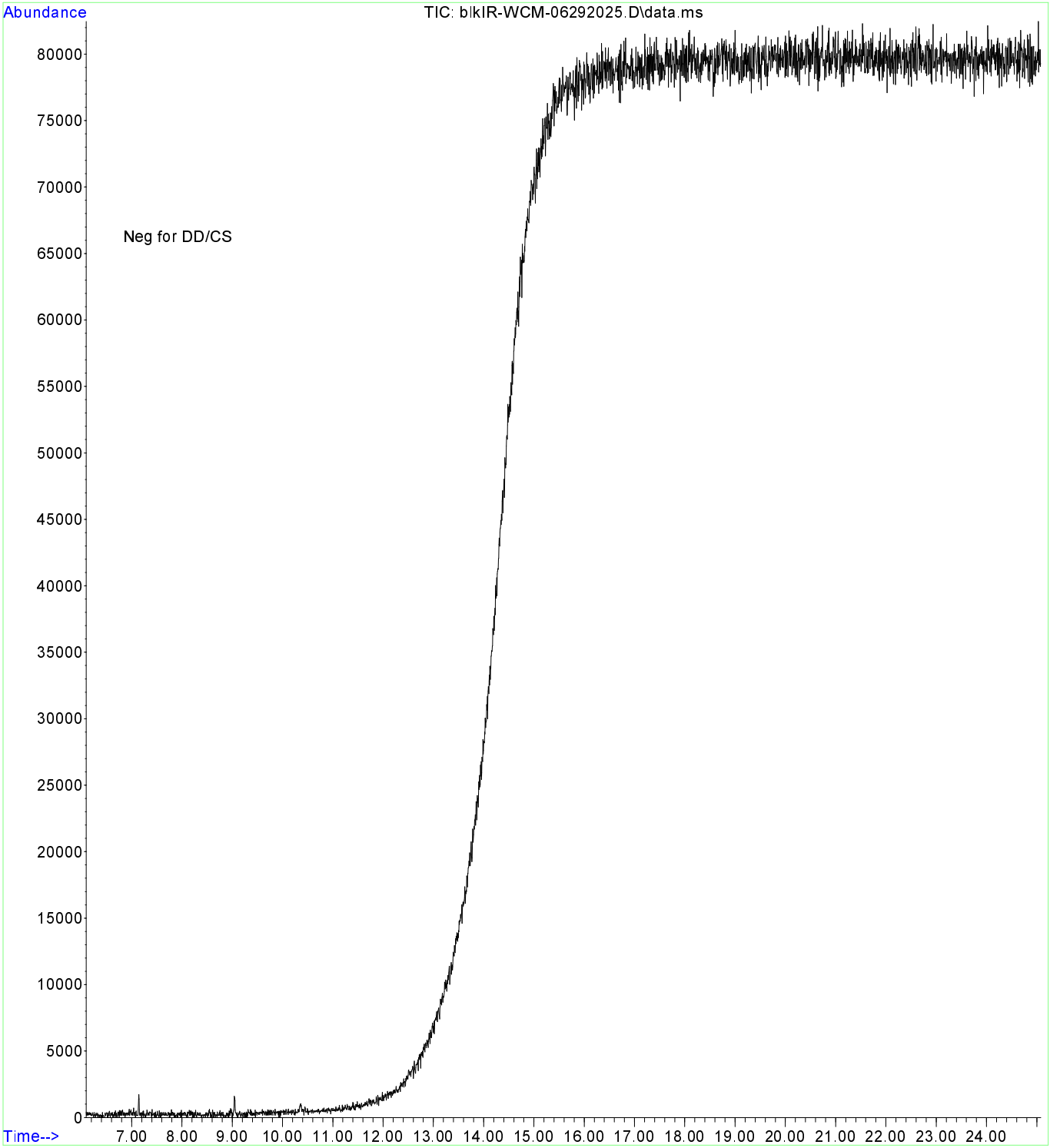
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Operator   : DrugChem-HP\admin
Instrument :   BCCL SD GCMS 3
Acquired   : 29 Jun 2025  16:39     using AcqMethod DrugTest35.M
Sample Name: Cayman GCMS Mix 3 (R-24-060)                    000002667
Misc Info  : Cayman GCMS Mix 3 (R-24-060)                    000002667
```



File :D:\MassHunter\GCMS\1\GCMS 3 data\Standards\Weekly Check\2025 ... Data\062925\blkB4-WCM-06292025.D
Operator : DrugChem-HP\admin
Instrument : BCCL SD GCMS 3
Acquired : 29 Jun 2025 16:10 using AcqMethod DrugTest35.M
Sample Name: blank (ACN - C-19-0068) prior to Cayman GCMS Mix 3 (R-24-060) 000002666
Misc Info : ACN (C-19-0068) blank 000002666



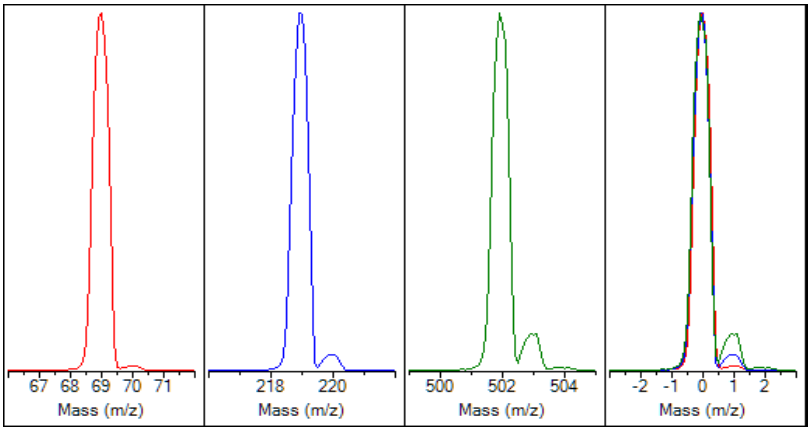
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... Data\062925\blkIR-WCM-06292025.D
Operator : DrugChem-HP\admin
Instrument : BCCL SD GCMS 3
Acquired : 29 Jun 2025 17:07 using AcqMethod DrugTest35.M
Sample Name: blank (ACN - C-19-0068) - Instrument Ready 000002666
Misc Info : Run 1 - EtAc (C-22-0063A)/base extract w/ R-24-059 000002666



Autotune - 5977

6/30/2025 7:39:34 AM (UTC-5:00) BCCL SD GCMS 3

D:\MASSHUNTER\GCMS\1\5977\atune.u US1329M205



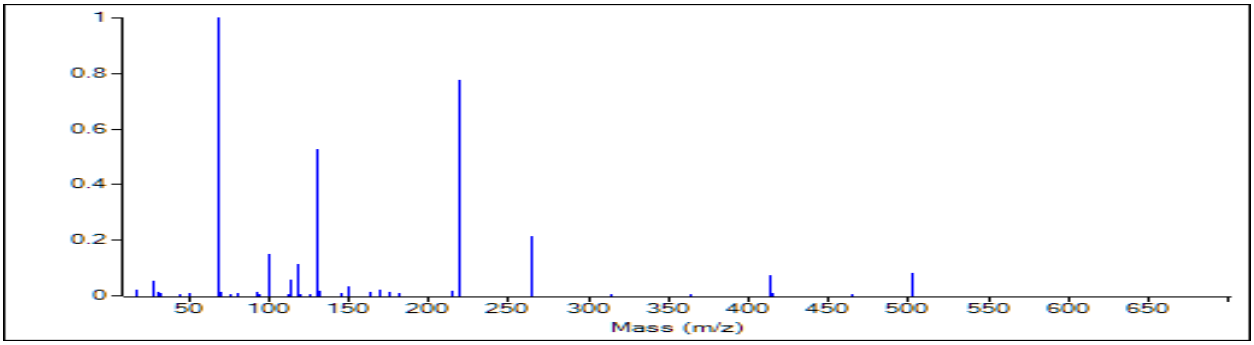
Ion Polarity	Pos	Mass Gain	-358
Emission	34.6	Mass Offset	-36
Electron Energy	70.0	Amu Gain	1676
Filament	2	Amu Offset	119.75
Repeller	34.90	Width219	-0.023
Ion Focus	90.3	DC Polarity	Pos
Entrance Lens	20.2	HED Enable	On
Ent Lens Offset	13.23	EM Volts	1829.3
Ion Body	0.00	Extractor Lens	0.00
		Scan Speed	3
		Averages	3
PFTBA	Open	Step Size	0.10

Temperatures and Pressures

MS Source	230	Turbo Speed	100.0
MS Quad	150	Hi Vac	9.06e-06

Mass	Abund	Rel Abund	Pw50
69.00	419,819	100.0%	0.61
218.90	329,646	78.5%	0.60
501.90	34,358	8.2%	0.61

Low	High	Step	Speed	Threshold	Peaks	Base	Abundance	Total Ion
10.00	701.00	0.10	3	100	100	69.00	410,944	1,390,125



Mass	Abund	Rel Abund	Iso Mass	Iso Abund	Iso Ratio
69.00	410,944	100.00	70.00	4,304	1.05
219.00	318,528	77.51	220.00	13,613	4.27
502.00	33,368	8.12	503.00	3,314	9.93

Air/Water Check: H20 ~1.9% N2 ~5.3% O2 ~0.8% CO2 ~0.2% N2/H20 ~282.5%

Column(1) Flow: 0.80 Column(2): 0.00 ml/min Interface Temp: 280

Ramp Criteria:

Ion Focus maximum 90 volts using ion 502; Electron Multiplier Gain 64803.338

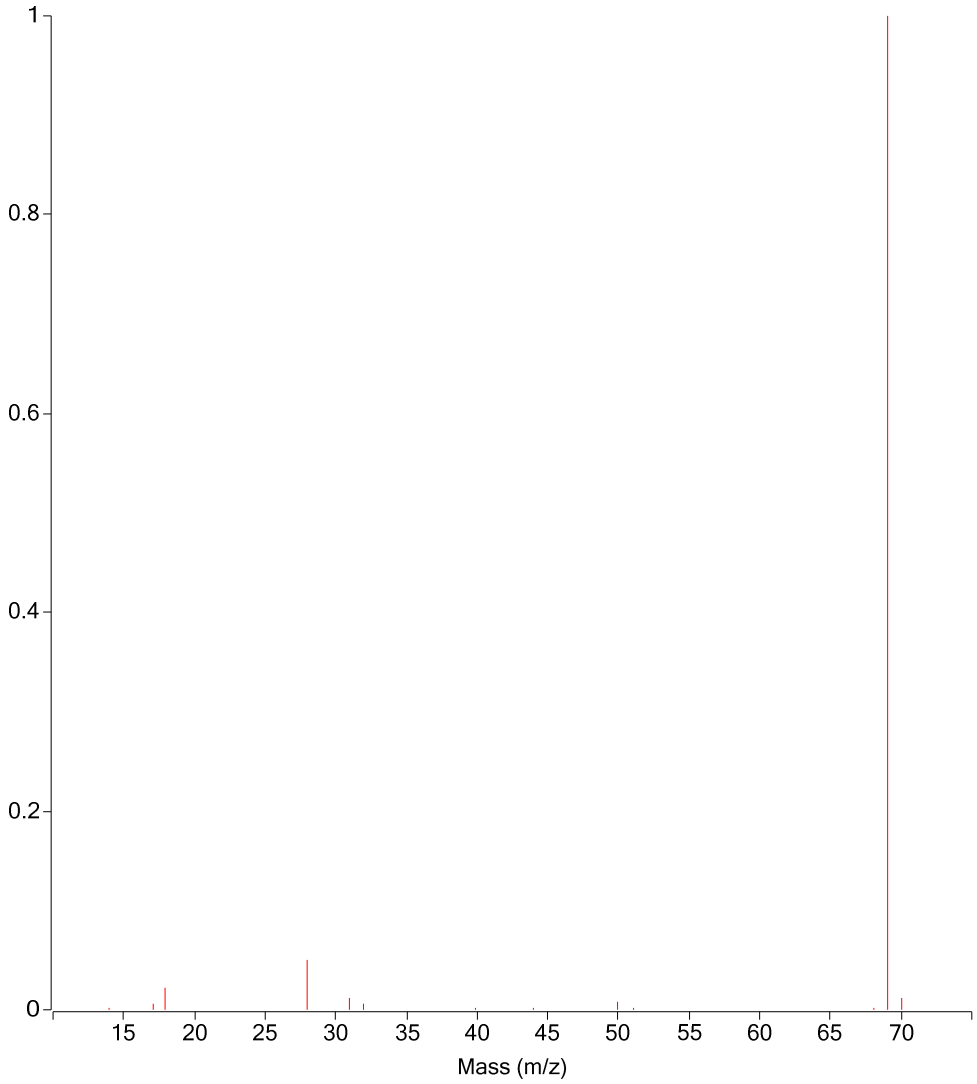
Repeller maximum 35 volts using ion 219; Gain Factor 0.6480

Mass Gain Values(Scan Speed): -356(3) -356(2) -340(1) -327(0) -326(FS1) -239(FS2)

TARGET MASS:	50	69	131	219	414	502	1050
Amu Offset	119.8	119.8	119.8	119.8	119.8	119.8	119.8
Entrance Lens Offset	13.2	13.2	13.2	13.2	13.2	13.2	13.2

597x Air and Water Check

Instrument: BCCL SD GCMS 3
Mon Jun 30 07:28:16 2025 D:\MassHunter\GCMS\1\5977\



Current Params used: atune.u

Relative abundances:

18/69 =	2.12	Water%	(counts=9351)
28/69 =	4.93	Nitrogen%	(counts=21720)
32/69 =	0.62	Oxygen%	(counts=2720)
44/69 =	0.20	Carbon Dioxide%	(counts=901)
28/18 =	232.27	Nitrogen/Water%	

Instrument Name : BCCL SD GCMS 3
DC Polarity : Positive
Filament 2

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	502.99	OK
Ratio of mass 70 to mass 69(0.5 - 1.6%)	1.09	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%)	10.08	OK
Ratio of 219 to 69 should be > 40% and is	78.22	OK
Ratio of 502 to 69 should be > 2.4% and is	8.46	OK
Mass 69 Precursor (<= 3%)	0.17	OK
Mass 219 Precursor (<= 6%)	0.63	OK
Mass 502 Precursor (<= 12%)	0.72	OK

597x Air and Water Check
Mon Jun 30 07:50:16 2025 Instrument: BCCL SD GCMS 3
D:\MASSHUNTER\GCMS\1\5977\atune.u US1329M205

Testing for a leak in the system

Ratio of 18 to 69 (<20%)	1.67	OK
Ratio of 28 to 69 (<10%)	4.47	OK
Electron Multiplier Voltage	1829	OK

Tune portion of System Verification passed.

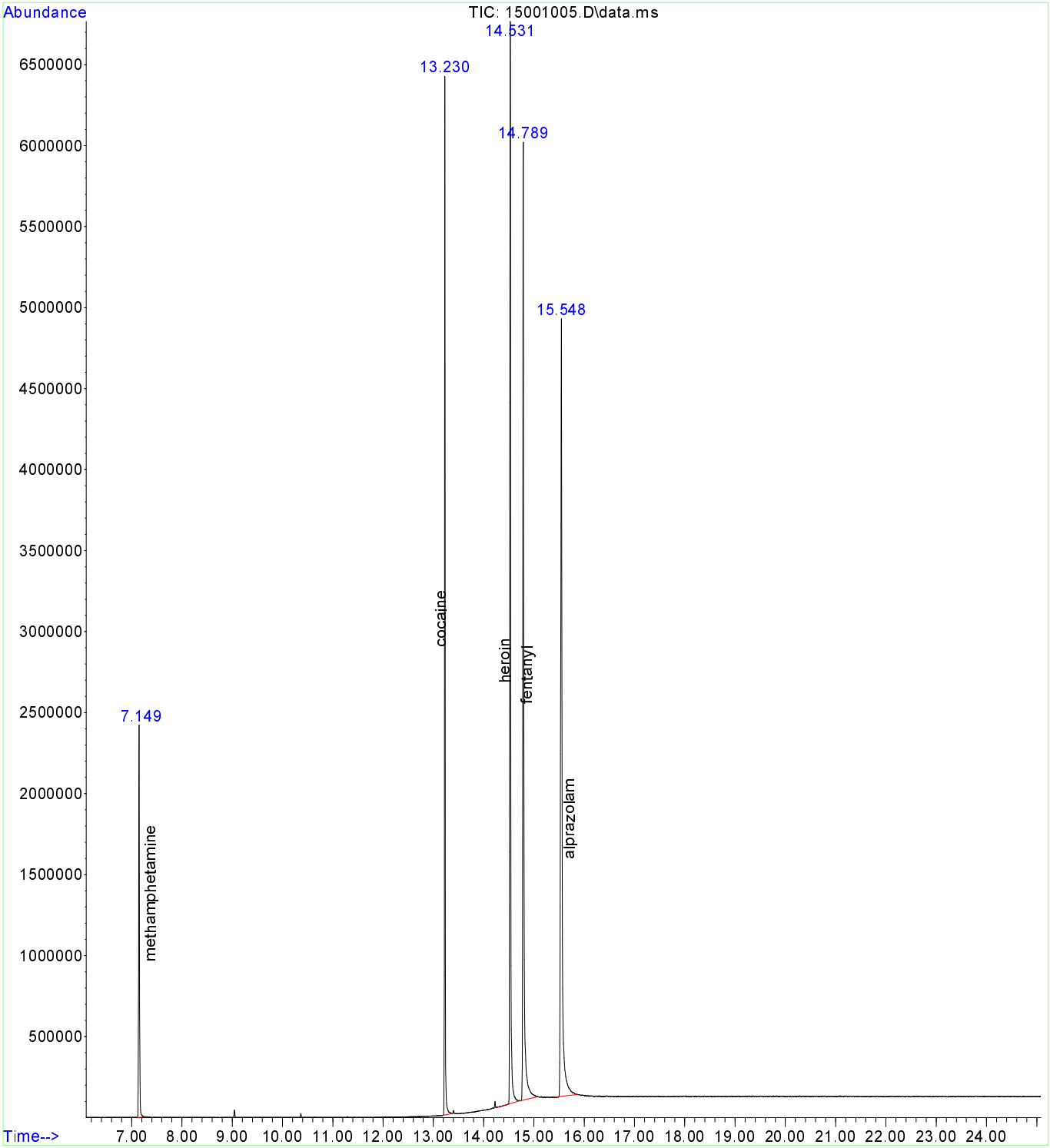
BCCL GC/MS #3
Retention Times for the Week of:

06/30/2025 - 07/06/2025

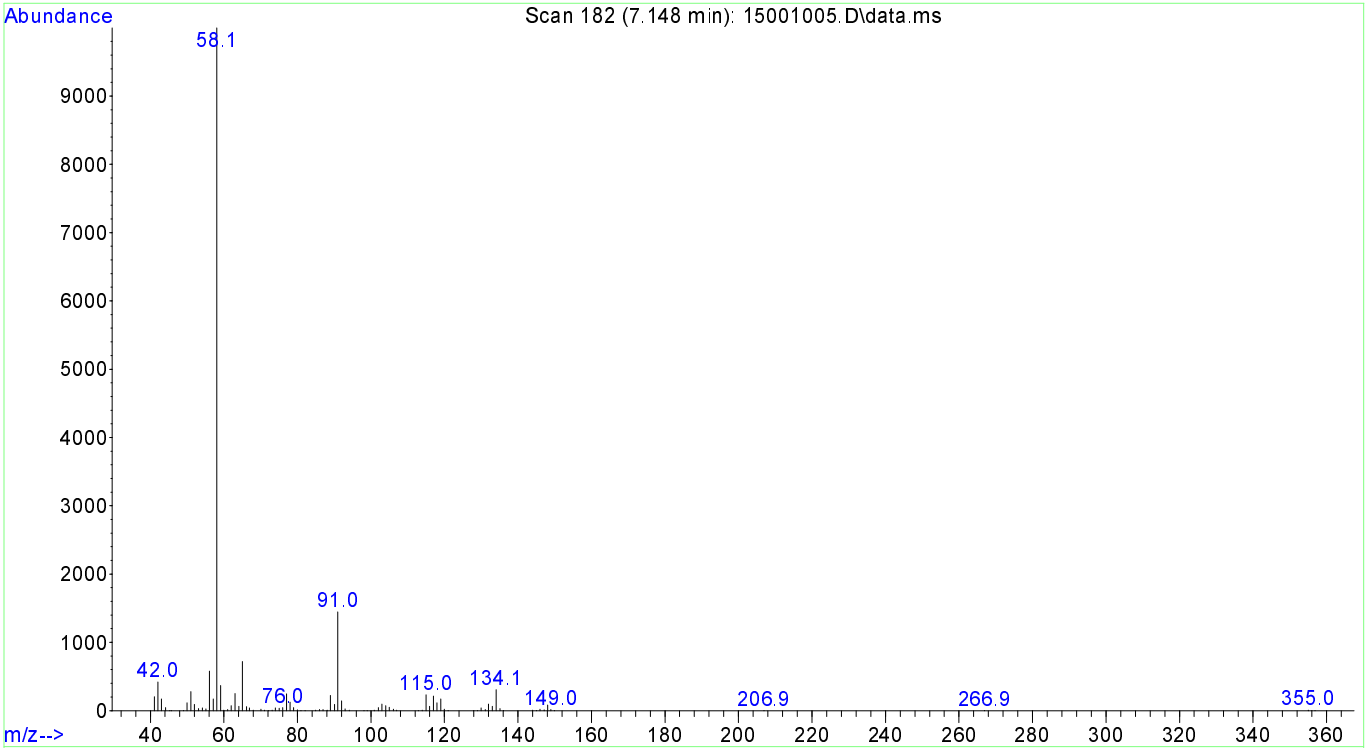
[X] **Tune: KB 06/30/2025 - Autotune**

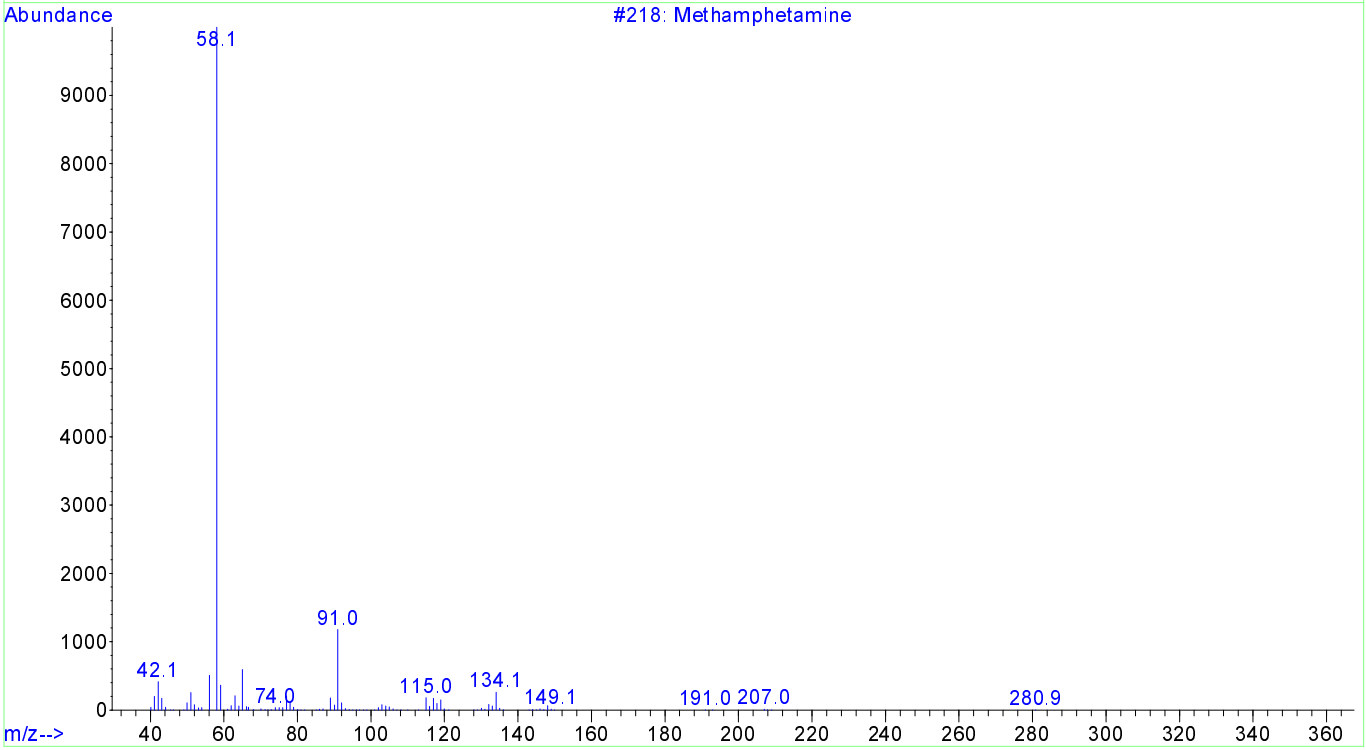
Standard	Standard #	Method	Retention Time	1% Window	
Methamphetamine	R-24-060	DrugTest35	7.149	7.077	7.220
Cocaine	R-24-060	DrugTest35	13.230	13.097	13.362
Heroin	R-24-060	DrugTest35	14.531	14.385	14.676
Fentanyl	R-24-060	DrugTest35	14.789	14.641	14.936
Alprazolam	R-24-060	DrugTest35	15.548	15.392	15.703

```
File       :D:\MassHunter\GCMS\1\GCMS 3 data\Standards\Weekly Check\2025
...          Data\063025\15001005.D
Operator   : DrugChem-HP\admin
Instrument :   BCCL SD GCMS 3
Acquired   : 30 Jun 2025  09:40     using AcqMethod DrugTest35.M
Sample Name: CAYMAN GC/MS MIX 3 (R-24-060)                    000002667
Misc Info  :                                                  000002667
```

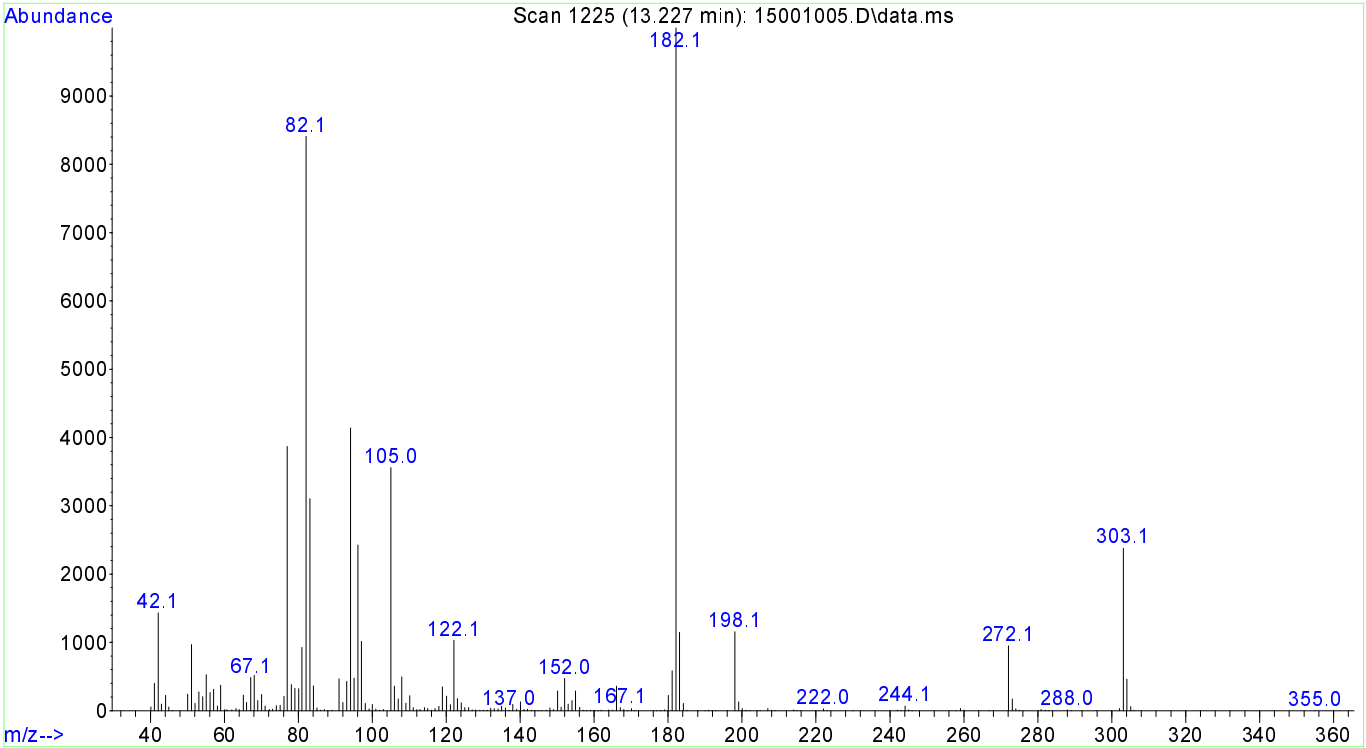


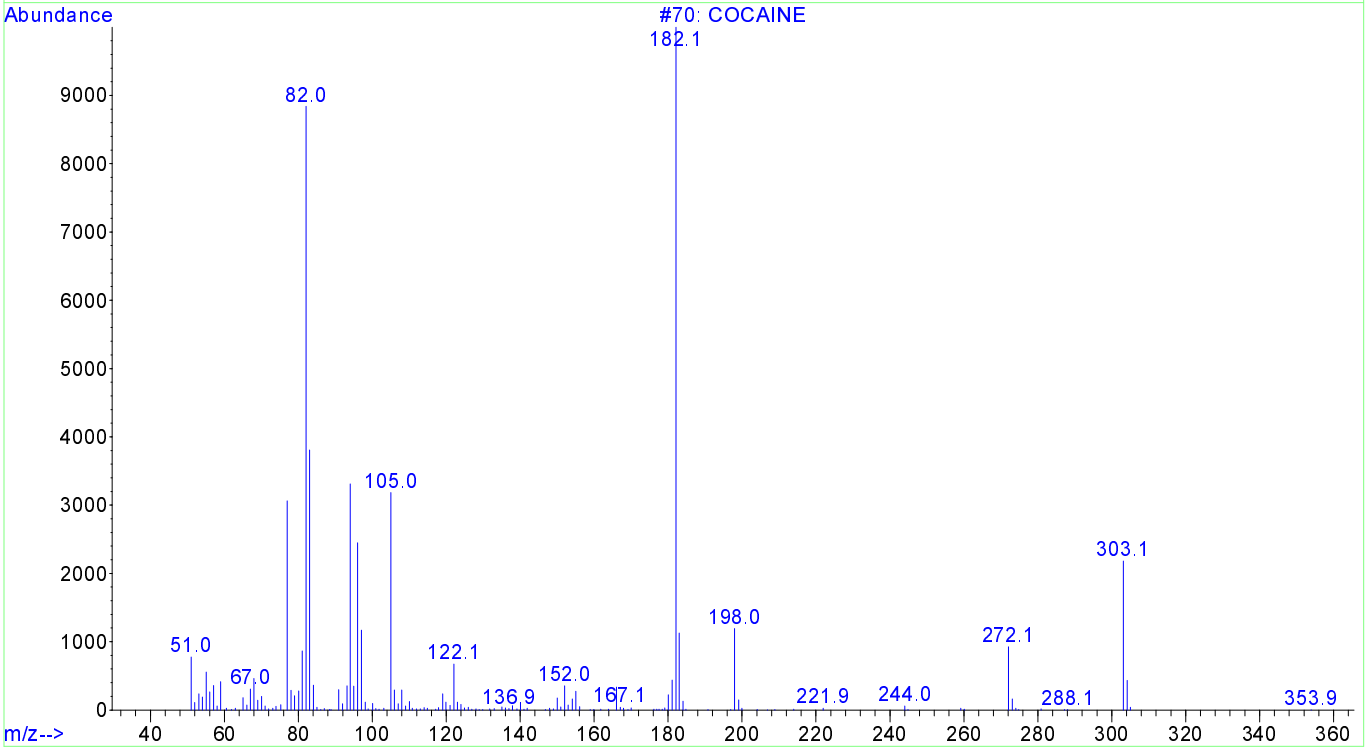
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... Data\063025\15001005.D
Operator : DrugChem-HP\admin
Instrument : BCCL SD GCMS 3
Acquired : 30 Jun 2025 09:40 using AcqMethod DrugTest35.M
Sample Name: CAYMAN GC/MS MIX 3 (R-24-060) 000002667
Misc Info : 000002667



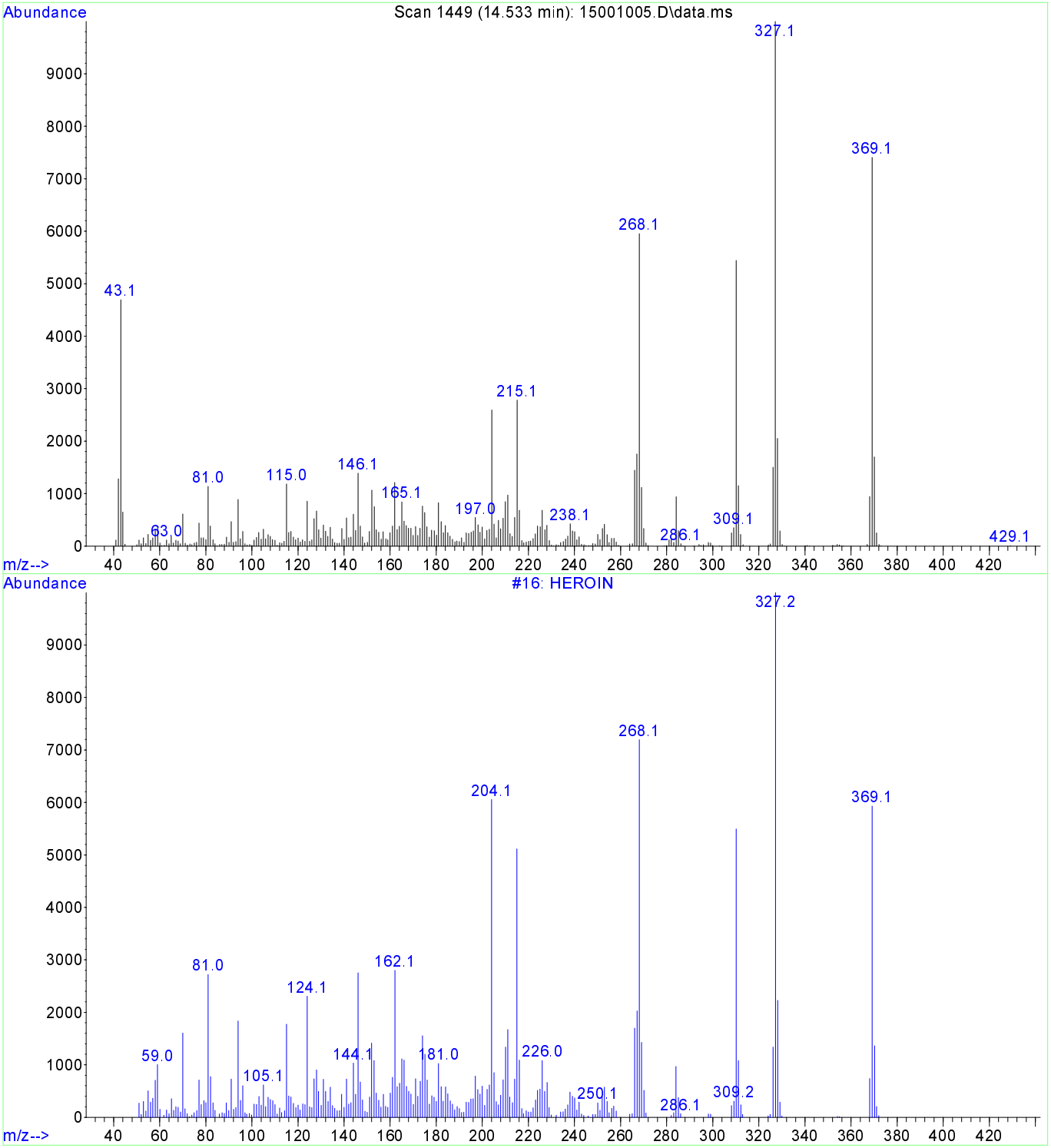


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File       :D:\MassHunter\GCMS\1\GCMS 3 data\Standards\Weekly Check\2025
...          Data\063025\15001005.D
Operator   : DrugChem-HP\admin
Instrument :   BCCL SD GCMS 3
Acquired   : 30 Jun 2025  09:40     using AcqMethod DrugTest35.M
Sample Name: CAYMAN GC/MS MIX 3 (R-24-060)                    000002667
Misc Info  :                                                  000002667
```

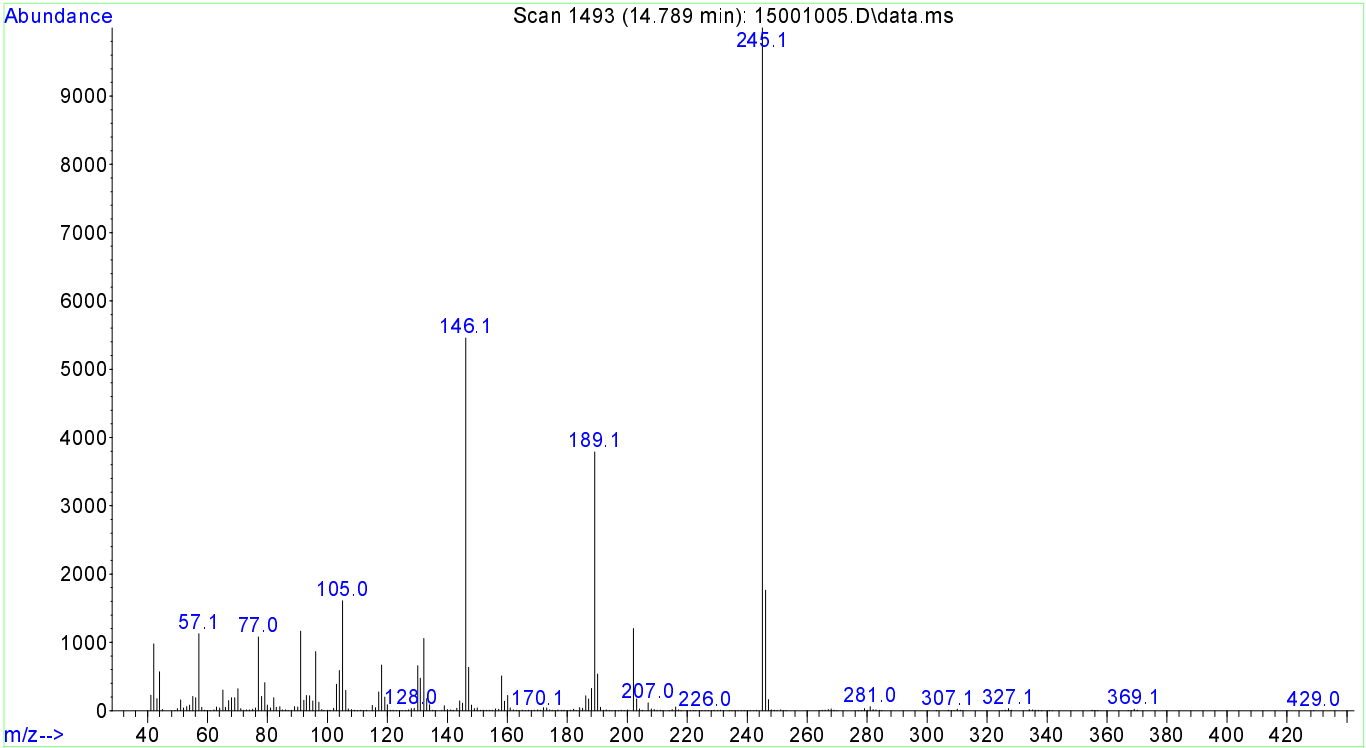


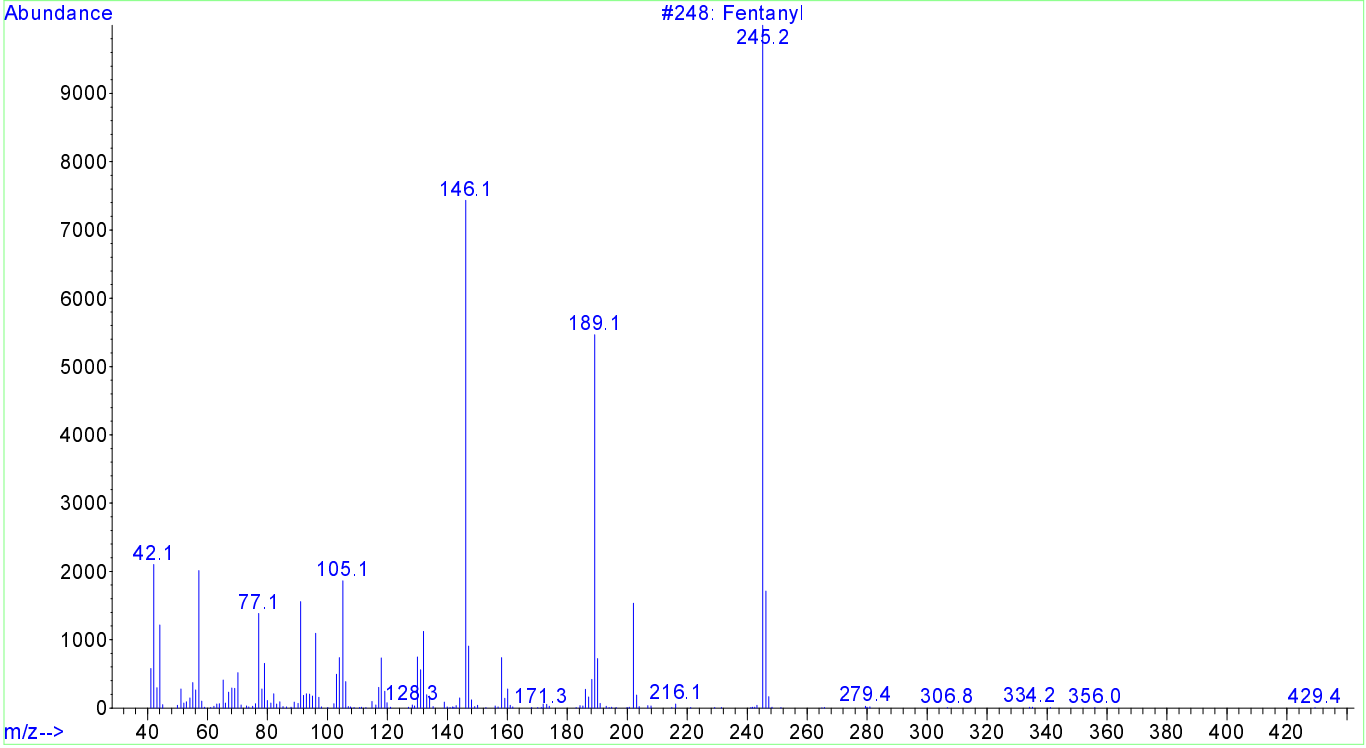


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... Data\063025\15001005.D
Operator : DrugChem-HP\admin
Instrument : BCCL SD GCMS 3
Acquired : 30 Jun 2025 09:40 using AcqMethod DrugTest35.M
Sample Name: CAYMAN GC/MS MIX 3 (R-24-060) 000002667
Misc Info : 000002667

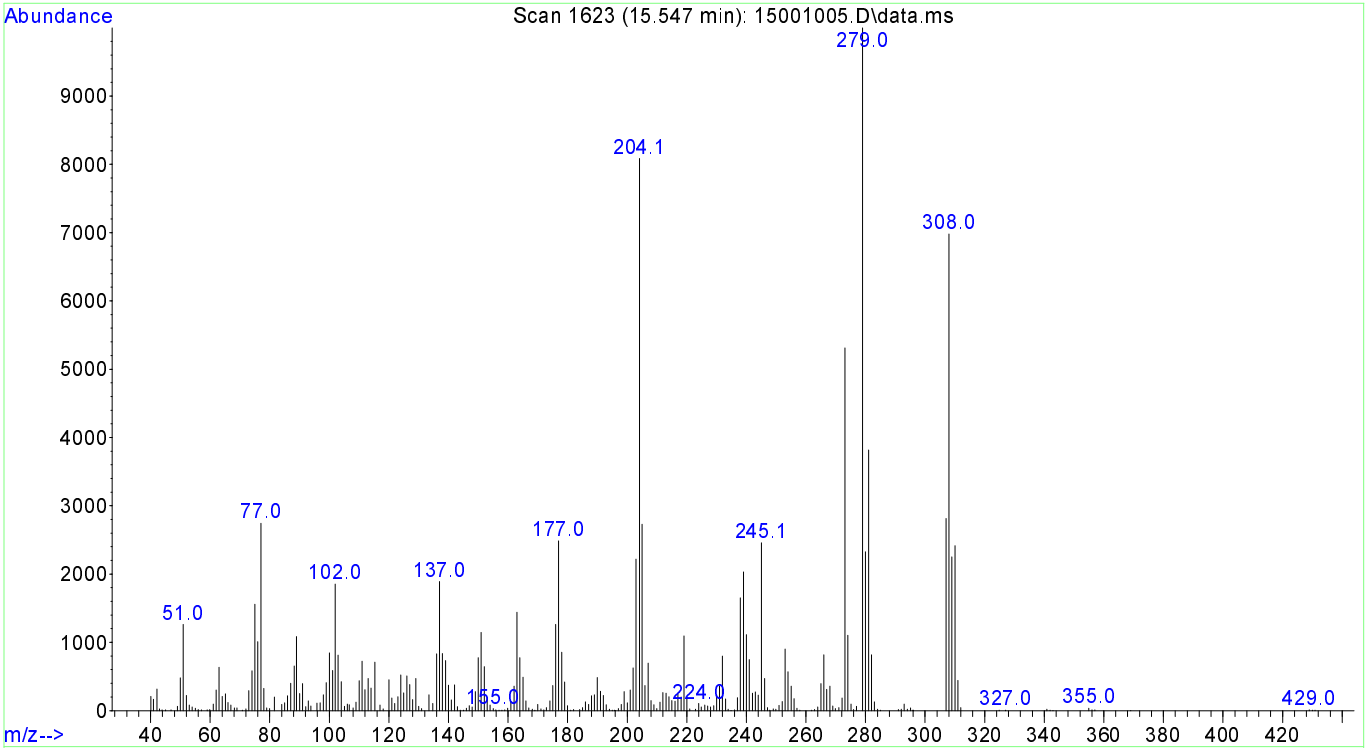


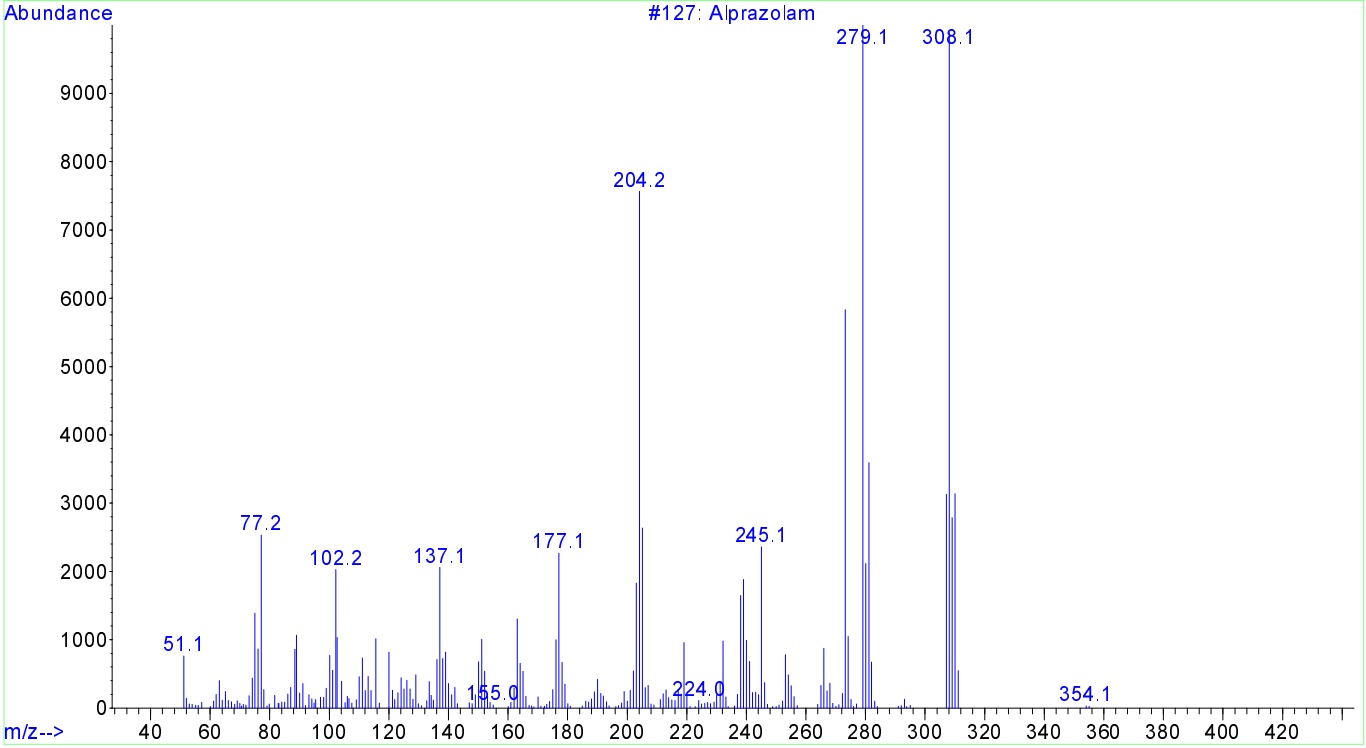
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Operator   : DrugChem-HP\admin
Instrument :   BCCL SD GCMS 3
Acquired   : 30 Jun 2025  09:40     using AcqMethod DrugTest35.M
Sample Name: CAYMAN GC/MS MIX 3 (R-24-060)                    000002667
Misc Info  :                                                  000002667
```



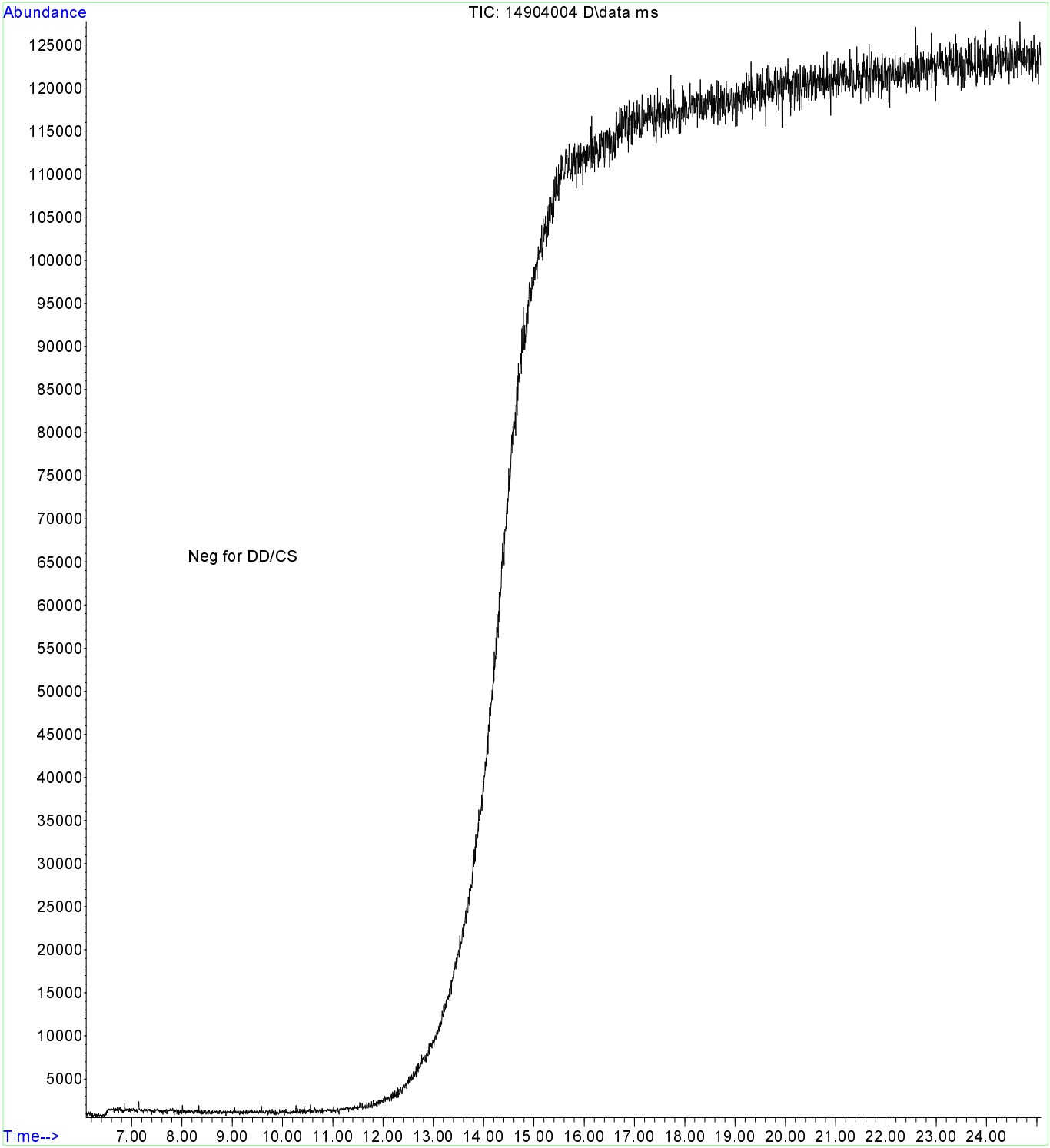


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File       :D:\MassHunter\GCMS\1\GCMS 3 data\Standards\Weekly Check\2025
...          Data\063025\15001005.D
Operator   : DrugChem-HP\admin
Instrument :   BCCL SD GCMS 3
Acquired   : 30 Jun 2025  09:40     using AcqMethod DrugTest35.M
Sample Name: CAYMAN GC/MS MIX 3 (R-24-060)                    000002667
Misc Info  :                                                  000002667
```





File :D:\MassHunter\GCMS\1\GCMS 3 data\Standards\Weekly Check\2025
... Data\063025\14904004.D
Operator : DrugChem-HP\admin
Instrument : BCCL SD GCMS 3
Acquired : 30 Jun 2025 09:12 using AcqMethod DrugTest35.M
Sample Name: BLANK (C-19-0068) PRIOR TO CAYMAN GC/MS MIX 3 (R-24-060) 000002666
Misc Info : 000002666



File :D:\MassHunter\GCMS\1\GCMS 3 data\Standards\Weekly Check\2025
... Data\063025\14901006.D
Operator : DrugChem-HP\admin
Instrument : BCCL SD GCMS 3
Acquired : 30 Jun 2025 10:09 using AcqMethod DrugTest35.M
Sample Name: BLANK (C-19-0068) - INSTRUMENT READY 000002666
Misc Info : 000002666

