

Data Path : Z:\voasrv\HPCHEM1\MSVOA_V\DATA\VV091625\
 Data File : VV039107.D
 Acq On : 16 Sep 2025 15:15
 Operator : SY/MD
 Sample : Q3084-17DL 2000X
 Misc : 25.0mL/MSVOA_V/WATER
 ALS Vial : 17 Sample Multiplier: 1

Instrument :
 MSVOA_V
 ClientSampleId :

Quant Time: Sep 17 02:24:19 2025
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_V\Method\SFAMVTR091525WMA.M
 Quant Title : TRACE VOA SFAM1.0
 QLast Update : Wed Sep 17 02:19:46 2025
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)

Internal Standards						
1) 1,4-Difluorobenzene	5.539	114	353073	5.000	ug/L	0.00
28) Chlorobenzene-d5	8.776	117	367828	5.000	ug/L	0.00
58) 1,4-Dichlorobenzene-d4	11.175	152	140879	5.000	ug/L	0.00
System Monitoring Compounds						
4) Vinyl Chloride-d3	1.291	65	116578	4.187	ug/L	0.00
Spiked Amount	5.000	Range	40 - 130	Recovery	=	83.800%
7) Chloroethane-d5	1.545	69	112338	4.655	ug/L	0.00
Spiked Amount	5.000	Range	65 - 130	Recovery	=	93.200%
11) 1,1-Dichloroethene-d2	2.069	65	54068	4.076	ug/L	0.00
Spiked Amount	5.000	Range	60 - 125	Recovery	=	81.600%
20) 2-Butanone-d5	3.793	46	202043	48.850	ug/L	0.00
Spiked Amount	50.000	Range	40 - 130	Recovery	=	97.700%
24) Chloroform-d	4.256	84	256678	4.746	ug/L	0.00
Spiked Amount	5.000	Range	70 - 125	Recovery	=	95.000%
26) 1,2-Dichloroethane-d4	4.947	65	112562	4.942	ug/L	0.00
Spiked Amount	5.000	Range	70 - 130	Recovery	=	98.800%
32) Benzene-d6	4.963	84	439455	4.366	ug/L	0.00
Spiked Amount	5.000	Range	70 - 125	Recovery	=	87.400%
36) 1,2-Dichloropropane-d6	5.989	67	144532	4.804	ug/L	0.00
Spiked Amount	5.000	Range	60 - 140	Recovery	=	96.000%
41) Toluene-d8	7.239	98	330824	3.672	ug/L	0.00
Spiked Amount	5.000	Range	70 - 130	Recovery	=	73.400%
43) trans-1,3-Dichloroprop...	7.558	79	43786	3.979	ug/L	0.00
Spiked Amount	5.000	Range	55 - 130	Recovery	=	79.600%
46) 2-Hexanone-d5	8.018	63	158493	44.491	ug/L	0.00
Spiked Amount	50.000	Range	45 - 130	Recovery	=	88.980%
56) 1,1,2,2-Tetrachloroeth...	10.143	84	102807	4.786	ug/L	0.00
Spiked Amount	5.000	Range	65 - 120	Recovery	=	95.800%
66) 1,2-Dichlorobenzene-d4	11.548	152	113194	4.992	ug/L	0.00
Spiked Amount	5.000	Range	80 - 120	Recovery	=	99.800%
Target Compounds						
					Qvalue	
16) Methylene chloride	2.462	84	12435	0.381	ug/L	94
22) cis-1,2-Dichloroethene	3.822	96	165508	5.747	ug/L	98
35) Methylcyclohexane	5.989	83	33855	0.693	ug/L #	19
37) 1,2-Dichloropropane	5.992	63	15025	0.500	ug/L #	90
42) Toluene	7.313	91	309920	2.568	ug/L	98
47) Tetrachloroethene	7.908	164	4400	0.180	ug/L	97
48) 2-Hexanone	8.018	43	21555	2.606	ug/L #	69
51) Chlorobenzene	8.809	112	71455	0.917	ug/L	99
52) Ethylbenzene	8.953	91	12465	0.100	ug/L	89
53) m,p-Xylene	9.072	106	20736	0.429	ug/L	97
54) o-Xylene	9.477	106	4968	0.112	ug/L	90
61) 1,2,3-Trichloropropane	11.111	75	5705	0.481	ug/L #	75
62) 1,3,5-Trimethylbenzene	10.850	105	9137	0.126	ug/L	93
63) 1,2,4-Trimethylbenzene	10.850	105	9137	0.129	ug/L	98
64) 1,3-Dichlorobenzene	11.117	146	20967	0.456	ug/L	95
65) 1,4-Dichlorobenzene	11.201	146	125783	2.644	ug/L	96
67) 1,2-Dichlorobenzene	11.570	146	29315	0.719	ug/L	96
70) 1,2,4-trichlorobenzene	13.185	180	193347	8.523	ug/L	96
71) Naphthalene	13.448	128	3502	0.101	ug/L #	94

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QLast Update : Wed Sep 17 02:19:46 2025
Response via : Initial Calibration

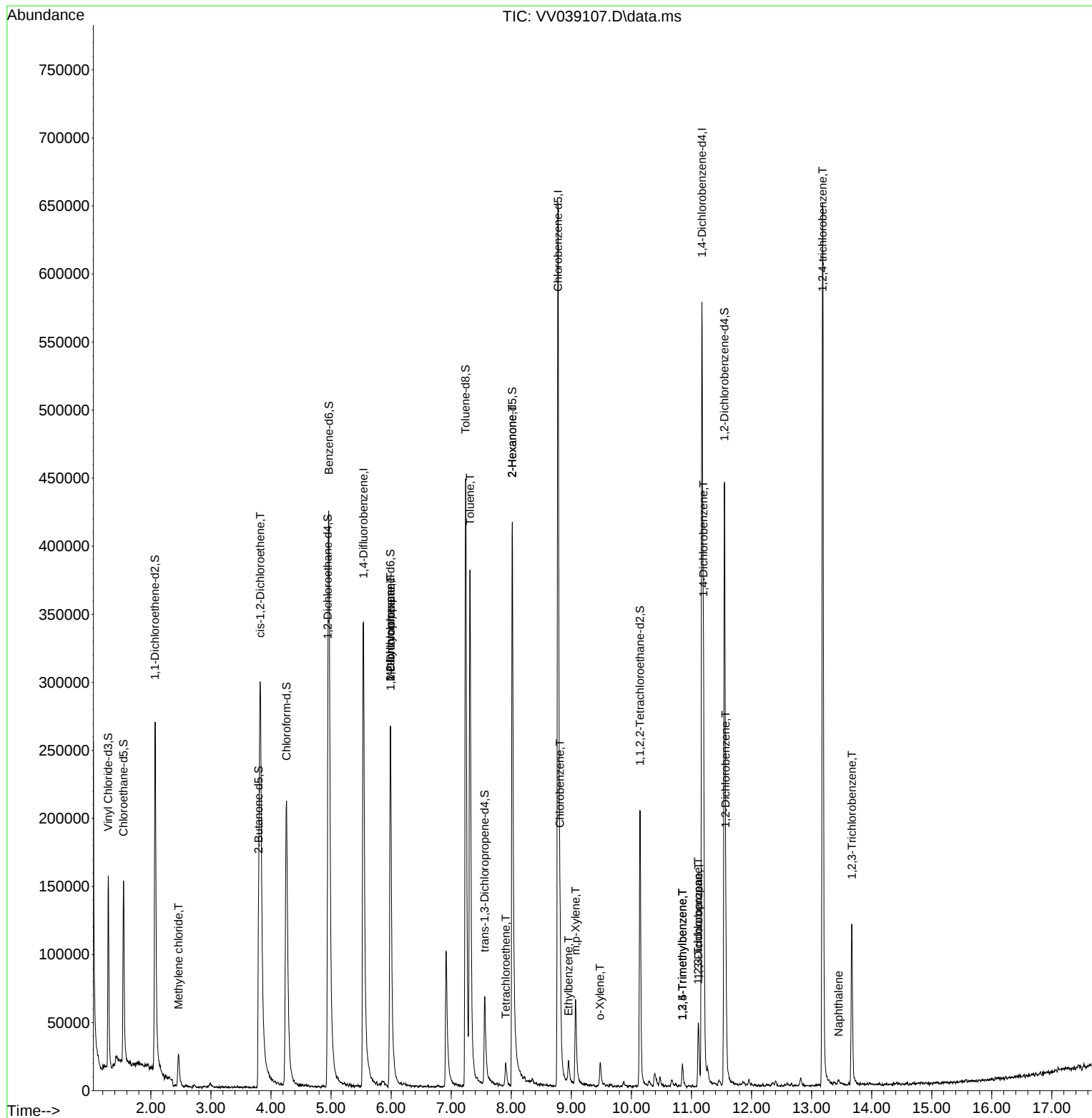
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
72) 1,2,3-Trichlorobenzene	13.670	180	36241	1.792	ug/L	98

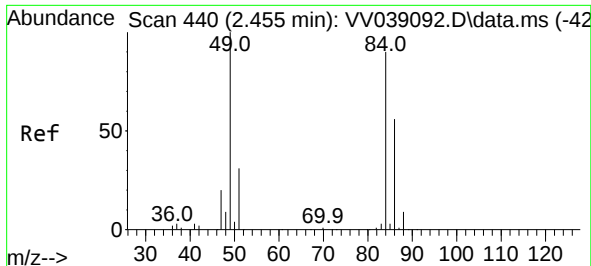
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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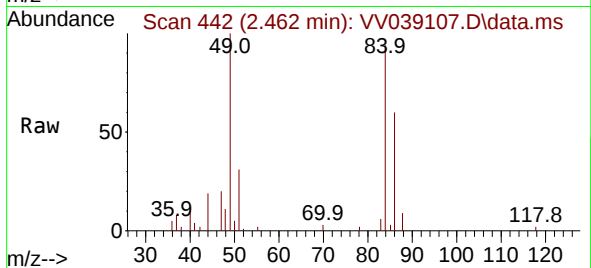
Quant Time: Sep 17 02:24:19 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_V\Method\SFAMVTR091525WMA.M
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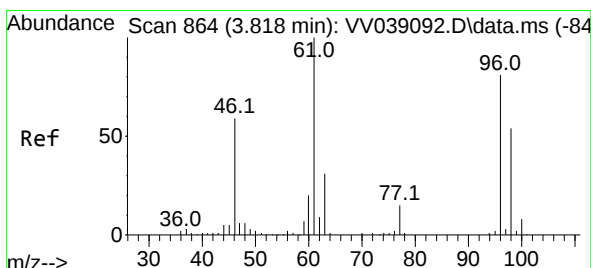
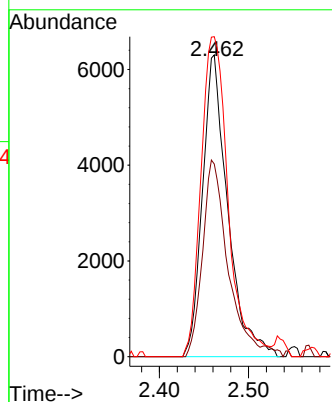
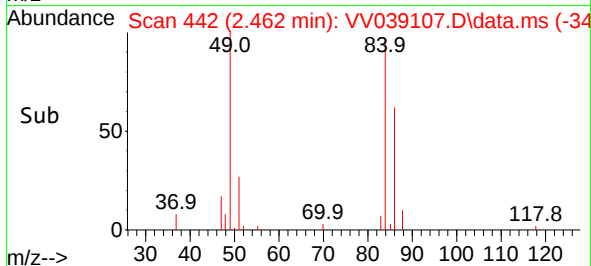


#16
Methylene chloride
Concen: 0.381 ug/L
RT: 2.462 min Scan# 440
Delta R.T. 0.006 min
Lab File: VV039107.D
Acq: 16 Sep 2025 15:15

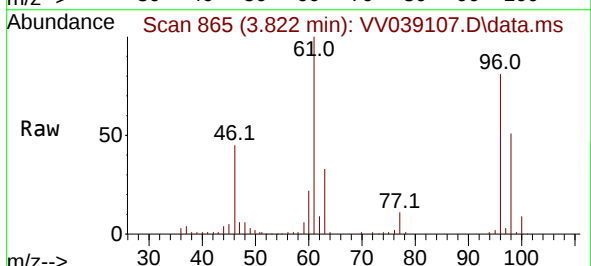
Instrument :
MSVOA_V
ClientSampleId :



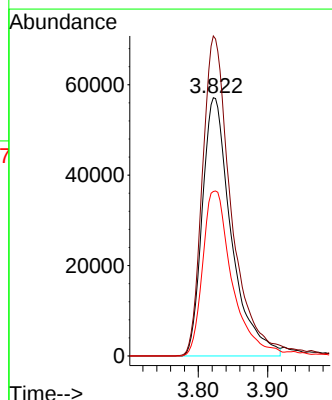
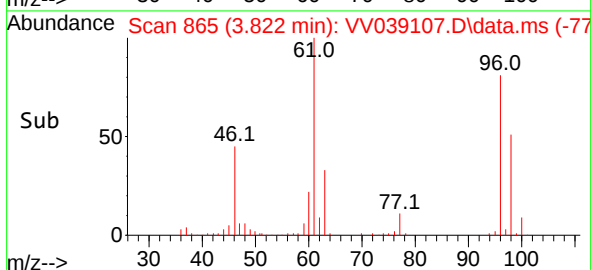
Tgt Ion: 84 Resp: 12435
Ion Ratio Lower Upper
84 100
86 63.8 44.2 82.2
49 106.0 80.6 149.6

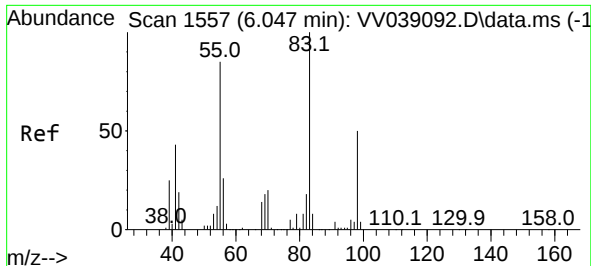


#22
cis-1,2-Dichloroethene
Concen: 5.747 ug/L
RT: 3.822 min Scan# 865
Delta R.T. 0.003 min
Lab File: VV039107.D
Acq: 16 Sep 2025 15:15



Tgt Ion: 96 Resp: 165508
Ion Ratio Lower Upper
96 100
61 123.9 85.4 158.6
98 63.7 46.6 86.6

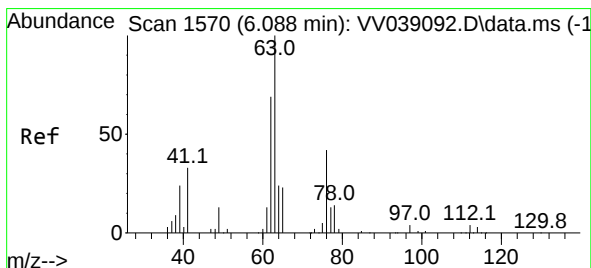
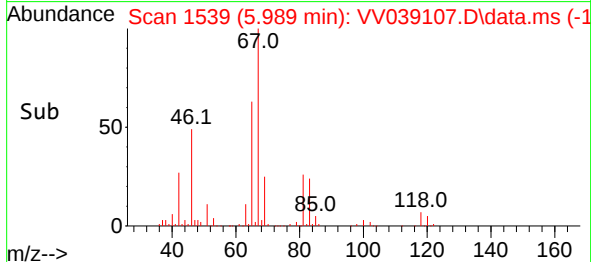
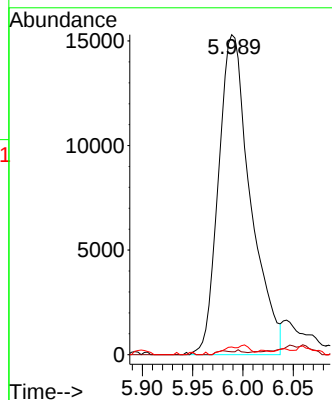
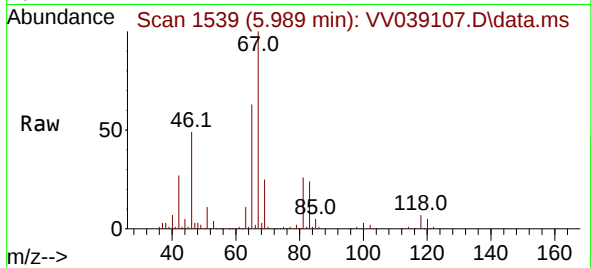




#35
Methylcyclohexane
Concen: 0.693 ug/L
RT: 5.989 min Scan# 1539
Delta R.T. -0.058 min
Lab File: VV039107.D
Acq: 16 Sep 2025 15:15

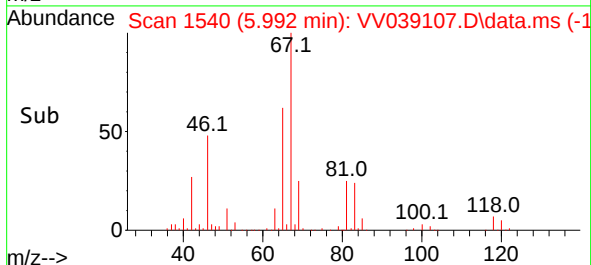
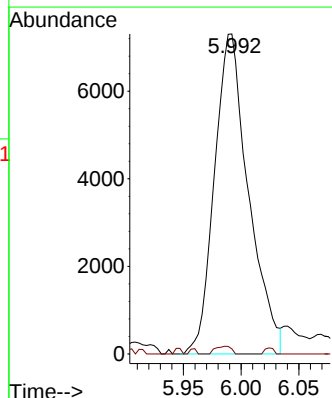
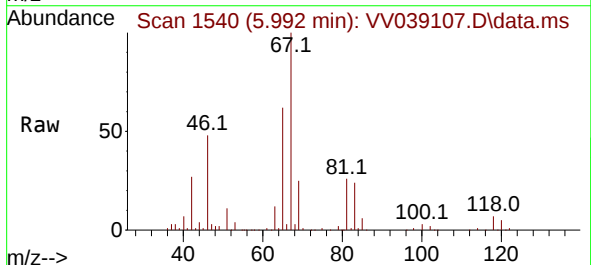
Instrument :
MSVOA_V
ClientSampleId :

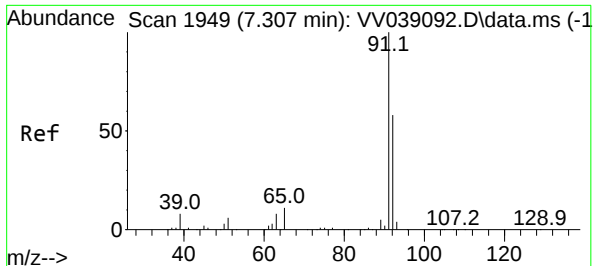
Tgt Ion: 83 Resp: 33855
Ion Ratio Lower Upper
83 100
55 0.6 61.4 92.2#
98 1.0 38.2 57.4#



#37
1,2-Dichloropropane
Concen: 0.500 ug/L
RT: 5.992 min Scan# 1540
Delta R.T. -0.096 min
Lab File: VV039107.D
Acq: 16 Sep 2025 15:15

Tgt Ion: 63 Resp: 15025
Ion Ratio Lower Upper
63 100
112 1.1 3.6 5.4#





#42

Toluene

Concen: 2.568 ug/L

RT: 7.313 min Scan# 1949

Delta R.T. 0.006 min

Lab File: VV039107.D

Acq: 16 Sep 2025 15:15

Instrument :

MSVOA_V

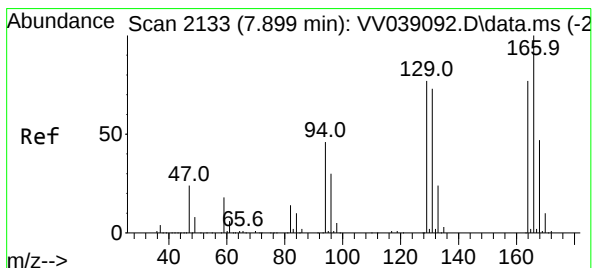
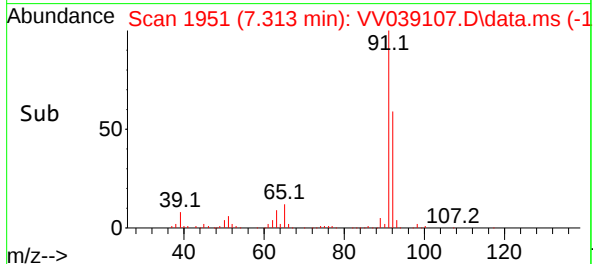
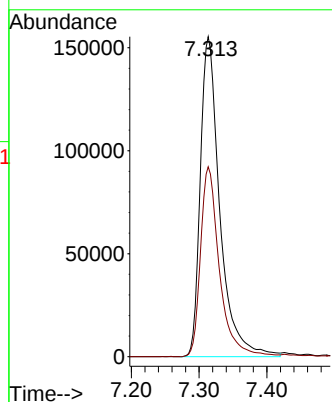
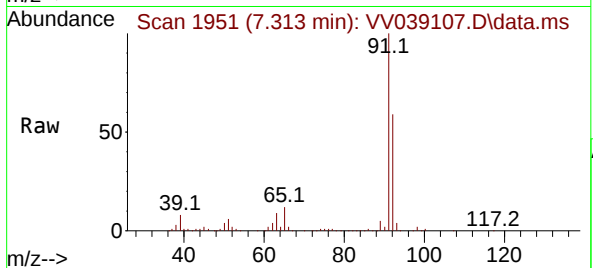
ClientSampleId :

Tgt Ion: 91 Resp: 309920

Ion Ratio Lower Upper

91 100

92 59.4 40.5 75.1



#47

Tetrachloroethene

Concen: 0.180 ug/L

RT: 7.908 min Scan# 2136

Delta R.T. 0.010 min

Lab File: VV039107.D

Acq: 16 Sep 2025 15:15

Tgt Ion: 164 Resp: 4400

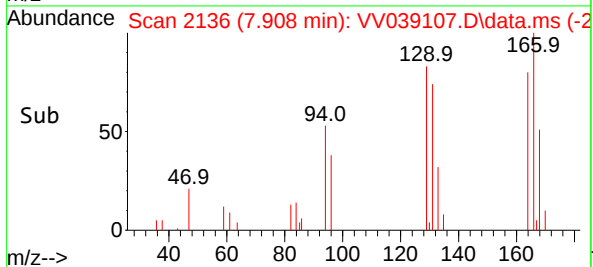
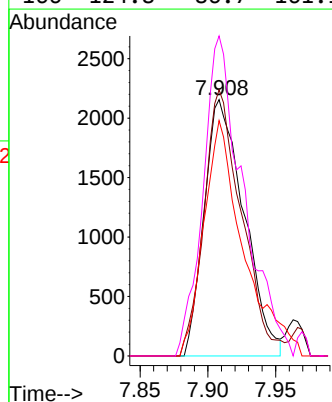
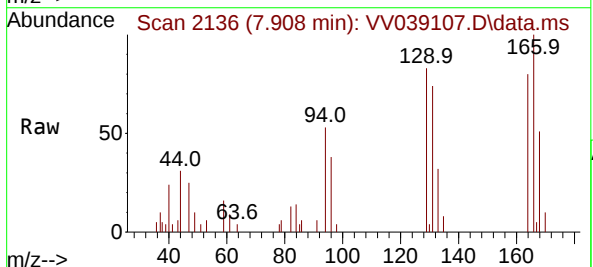
Ion Ratio Lower Upper

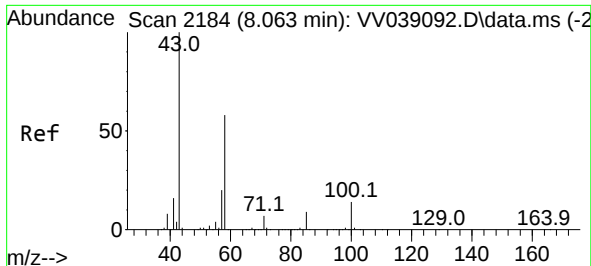
164 100

129 103.8 68.0 126.4

131 91.8 65.4 121.4

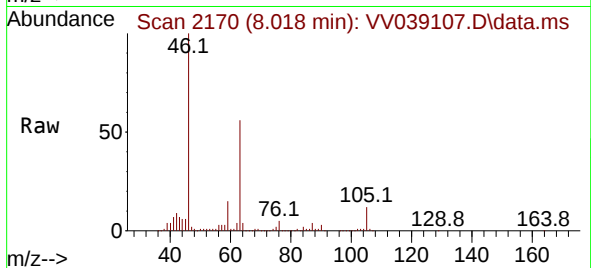
166 124.8 86.7 161.1



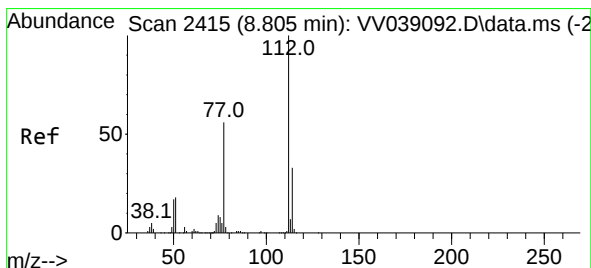
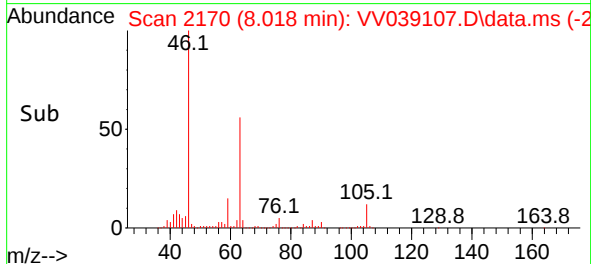
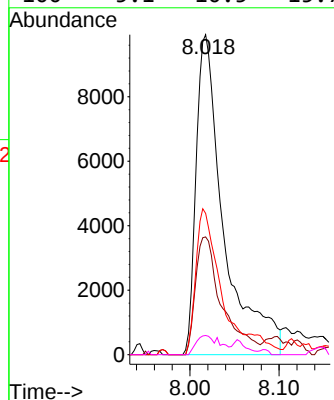


#48
2-Hexanone
Concen: 2.606 ug/L
RT: 8.018 min Scan# 21555
Delta R.T. -0.045 min
Lab File: VV039107.D
Acq: 16 Sep 2025 15:15

Instrument :
MSVOA_V
ClientSampleId :

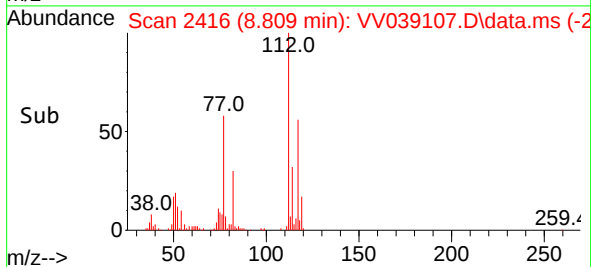
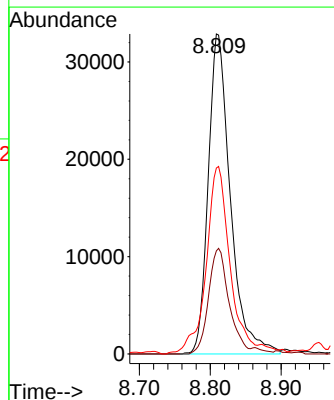
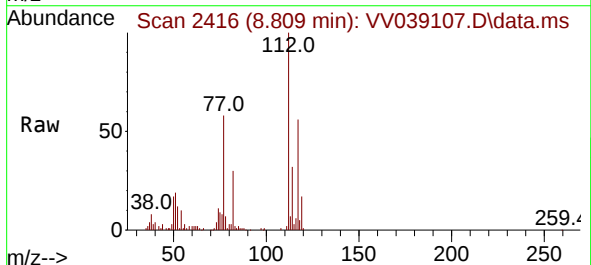


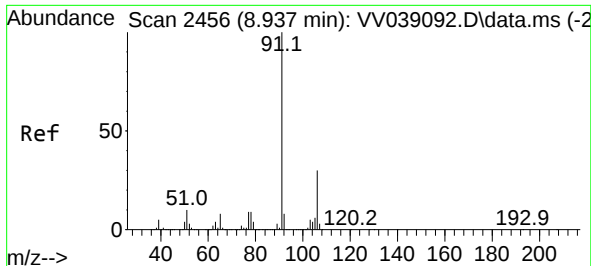
Tgt Ion:	43	Resp:	21555
Ion Ratio	Lower	Upper	
43	100		
58	35.2	45.6	68.4#
57	38.9	15.6	23.4#
100	5.1	10.5	15.7#



#51
Chlorobenzene
Concen: 0.917 ug/L
RT: 8.809 min Scan# 2416
Delta R.T. 0.003 min
Lab File: VV039107.D
Acq: 16 Sep 2025 15:15

Tgt Ion:	112	Resp:	71455
Ion Ratio	Lower	Upper	
112	100		
114	32.2	23.0	42.6
77	58.1	46.6	69.8

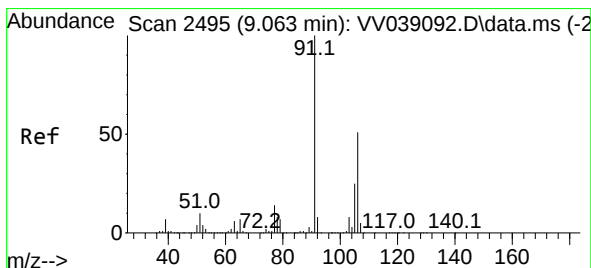
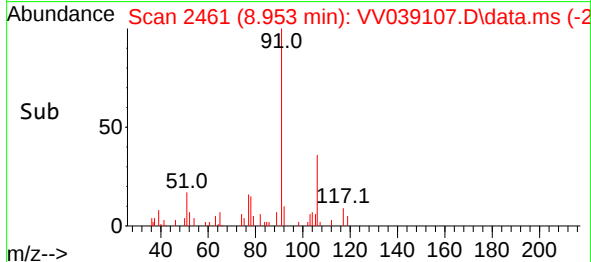
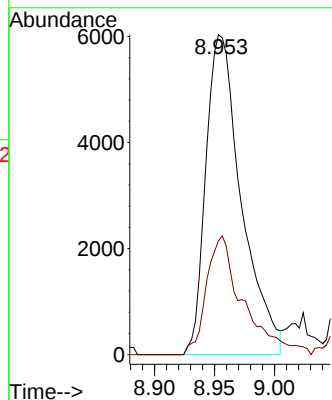
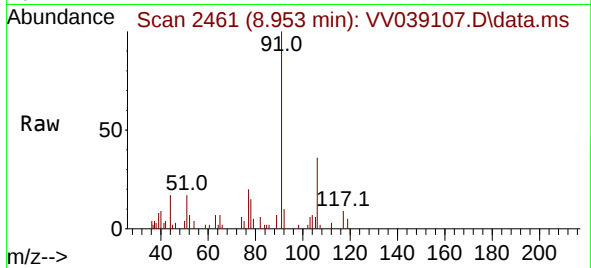




#52
Ethylbenzene
Concen: 0.100 ug/L
RT: 8.953 min Scan# 2456
Delta R.T. 0.016 min
Lab File: VV039107.D
Acq: 16 Sep 2025 15:15

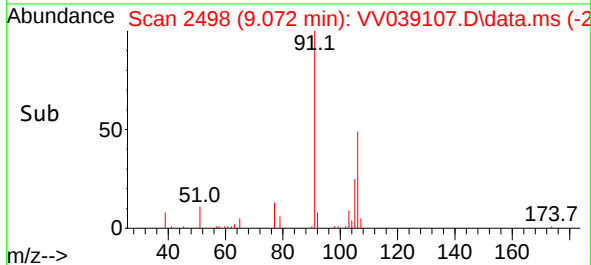
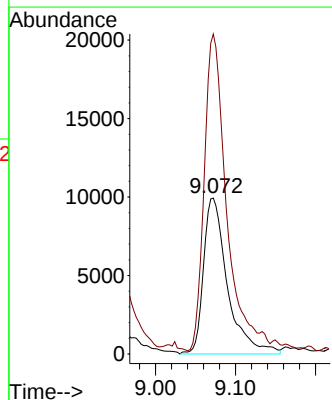
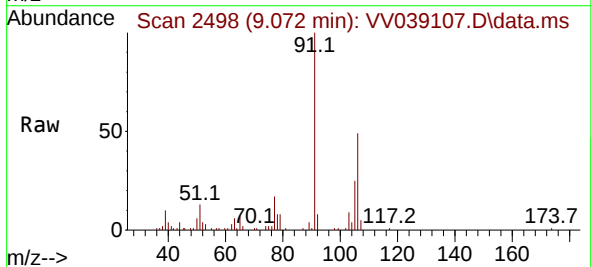
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MSVOA_V
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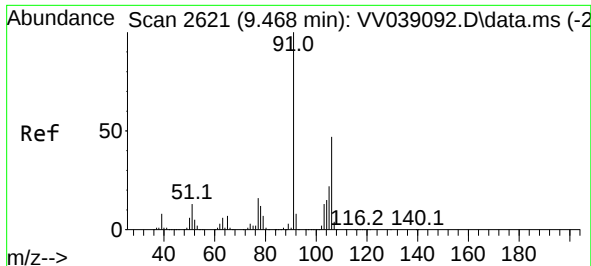
Tgt Ion: 91 Resp: 12465
Ion Ratio Lower Upper
91 100
106 35.6 20.8 38.6



#53
m,p-Xylene
Concen: 0.429 ug/L
RT: 9.072 min Scan# 2498
Delta R.T. 0.010 min
Lab File: VV039107.D
Acq: 16 Sep 2025 15:15

Tgt Ion: 106 Resp: 20736
Ion Ratio Lower Upper
106 100
91 205.3 140.1 260.3

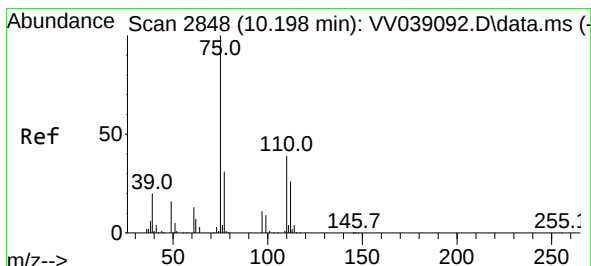
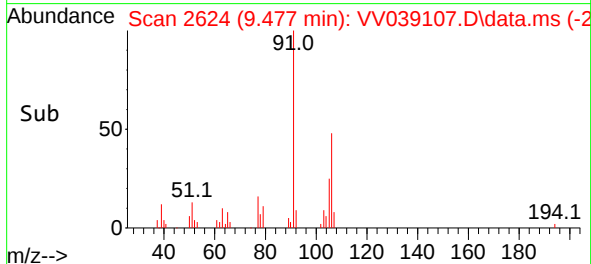
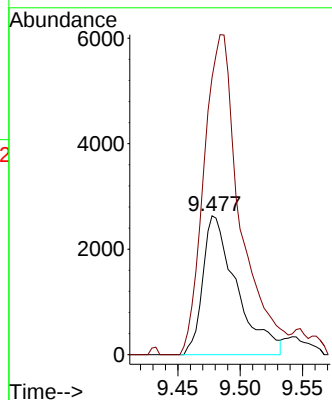
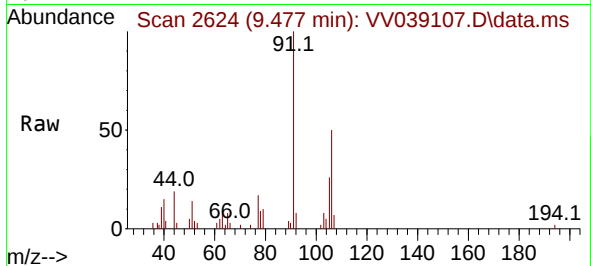




#54
o-Xylene
Concen: 0.112 ug/L
RT: 9.477 min Scan# 21
Delta R.T. 0.010 min
Lab File: VV039107.D
Acq: 16 Sep 2025 15:15

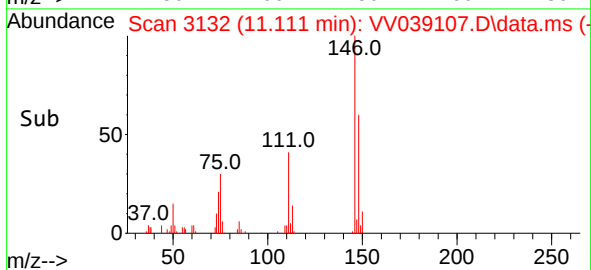
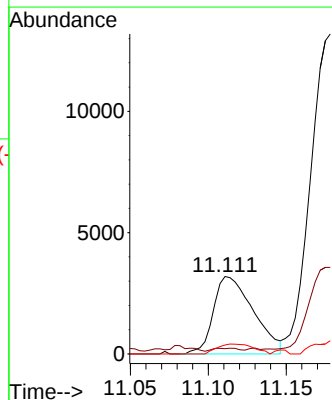
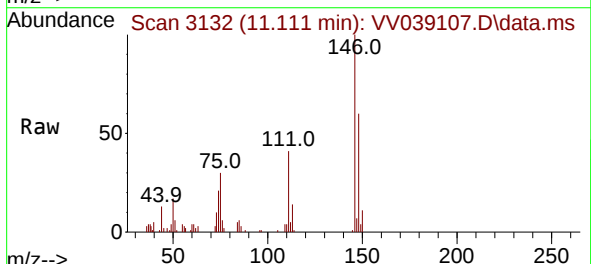
Instrument :
MSVOA_V
ClientSampleId :

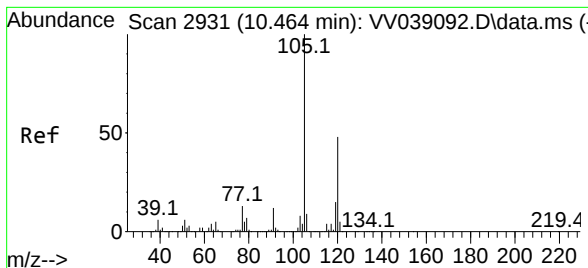
Tgt Ion:106 Resp: 4968
Ion Ratio Lower Upper
106 100
91 199.7 150.7 279.9



#61
1,2,3-Trichloropropane
Concen: 0.481 ug/L
RT: 11.111 min Scan# 3132
Delta R.T. 0.913 min
Lab File: VV039107.D
Acq: 16 Sep 2025 15:15

Tgt Ion: 75 Resp: 5705
Ion Ratio Lower Upper
75 100
77 32.0 25.1 37.7
110 11.4 31.0 46.4#





#62

1,3,5-Trimethylbenzene

Concen: 0.126 ug/L

RT: 10.850 min Scan# 3051

Delta R.T. 0.386 min

Lab File: VV039107.D

Acq: 16 Sep 2025 15:15

Instrument :

MSVOA_V

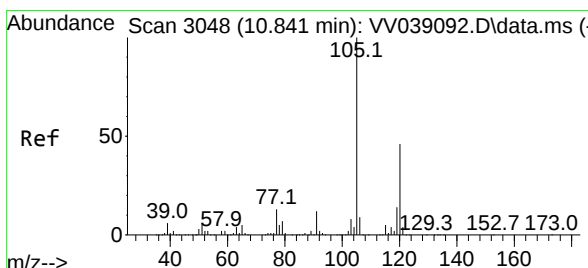
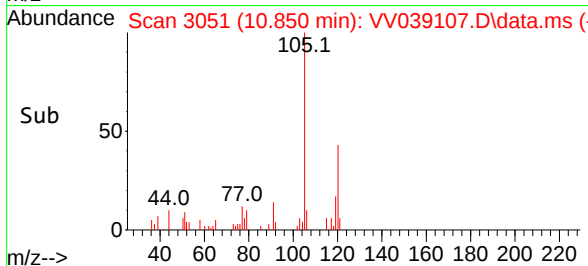
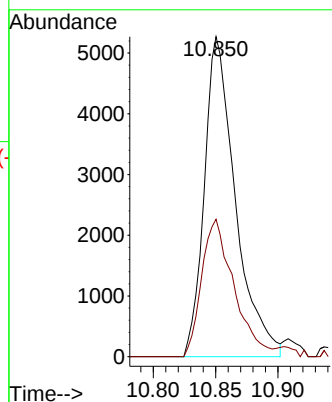
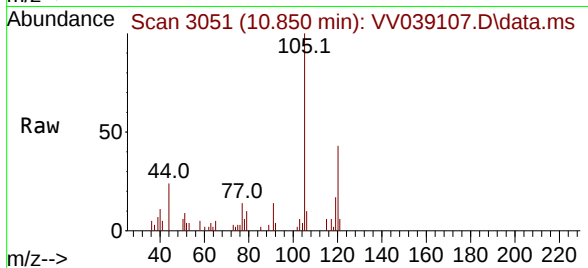
ClientSampleId :

Tgt Ion:105 Resp: 9137

Ion Ratio Lower Upper

105 100

120 44.4 39.1 58.7



#63

1,2,4-Trimethylbenzene

Concen: 0.129 ug/L

RT: 10.850 min Scan# 3051

Delta R.T. 0.010 min

Lab File: VV039107.D

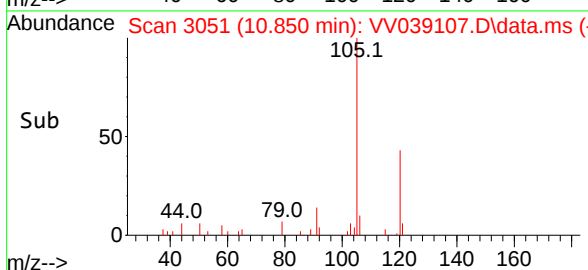
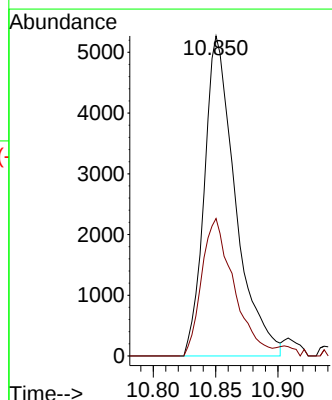
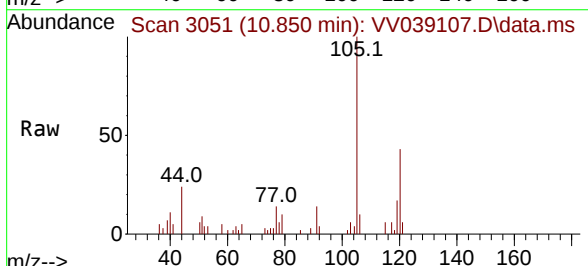
Acq: 16 Sep 2025 15:15

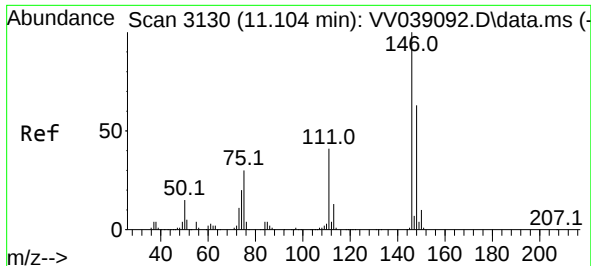
Tgt Ion:105 Resp: 9137

Ion Ratio Lower Upper

105 100

120 44.4 36.6 54.8

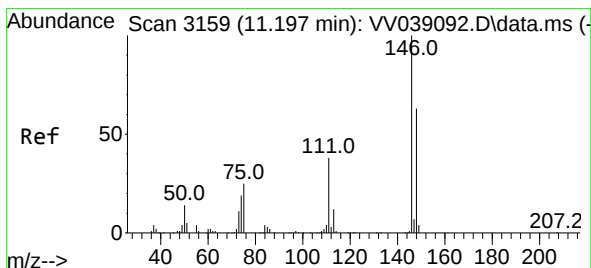
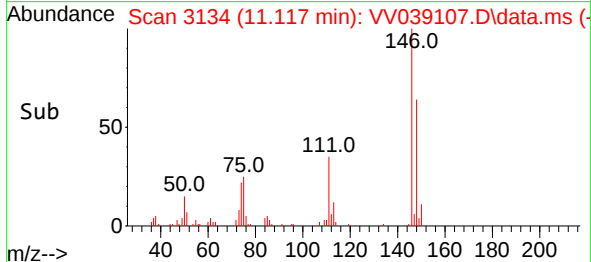
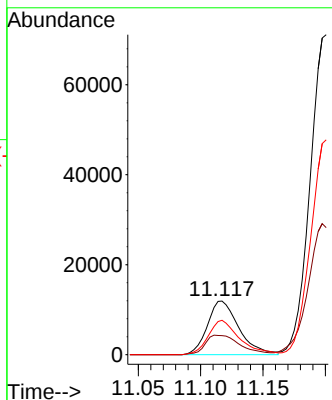
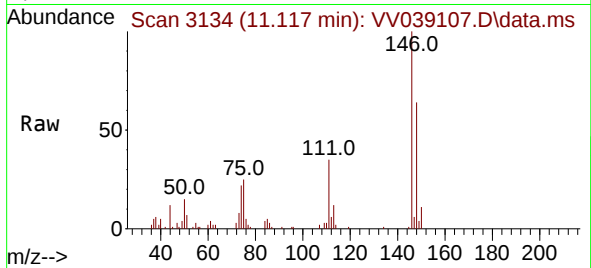




#64
1,3-Dichlorobenzene
Concen: 0.456 ug/L
RT: 11.117 min Scan# 3117
Delta R.T. 0.013 min
Lab File: VV039107.D
Acq: 16 Sep 2025 15:15

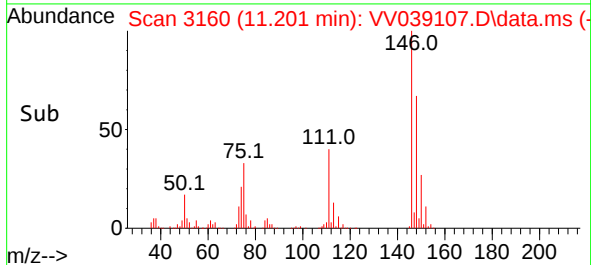
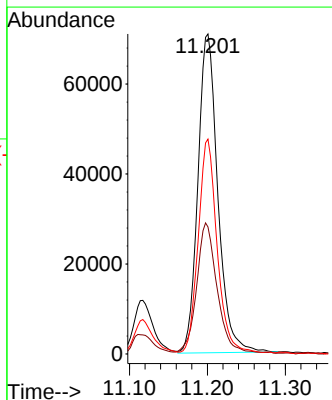
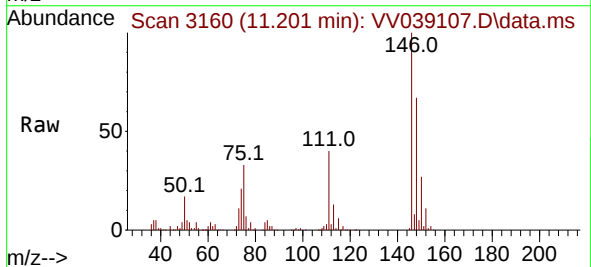
Instrument :
MSVOA_V
ClientSampleId :

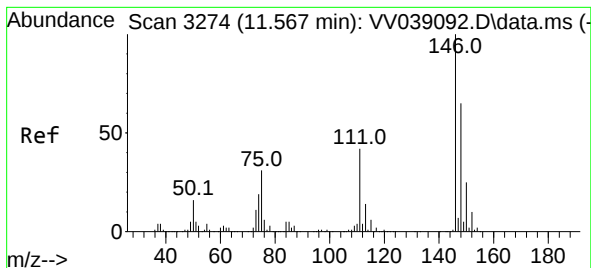
Tgt Ion	Ratio	Lower	Upper
146	100		
111	35.5	28.3	52.7
148	64.1	42.9	79.7



#65
1,4-Dichlorobenzene
Concen: 2.644 ug/L
RT: 11.201 min Scan# 3160
Delta R.T. 0.003 min
Lab File: VV039107.D
Acq: 16 Sep 2025 15:15

Tgt Ion	Ratio	Lower	Upper
146	100		
111	39.7	27.2	50.6
148	67.2	43.8	81.4





#67

1,2-Dichlorobenzene

Concen: 0.719 ug/L

RT: 11.570 min Scan# 31

Delta R.T. 0.003 min

Lab File: VV039107.D

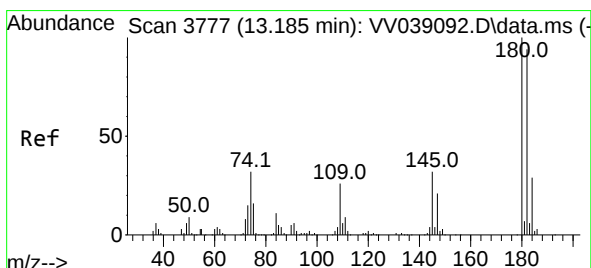
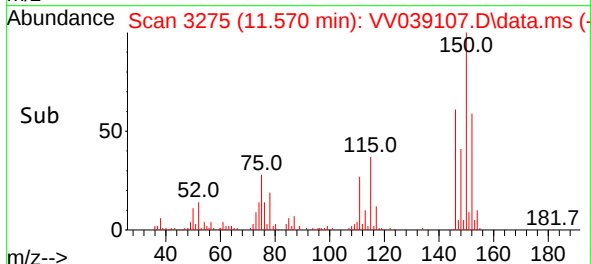
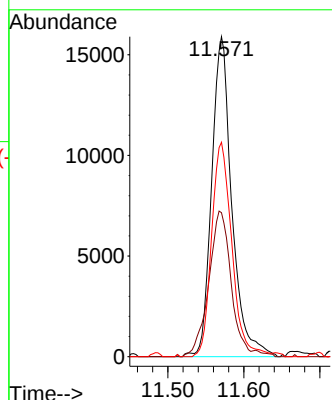
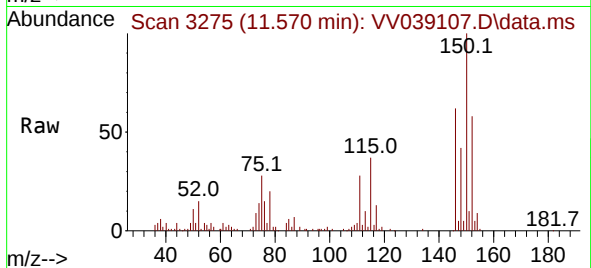
Acq: 16 Sep 2025 15:15

Instrument :

MSVOA_V

ClientSampleId :

Tgt Ion:146	Resp:	29315
Ion Ratio	Lower	Upper
146	100	
111	45.0	33.4 50.2
148	67.0	51.1 76.7



#70

1,2,4-trichlorobenzene

Concen: 8.523 ug/L

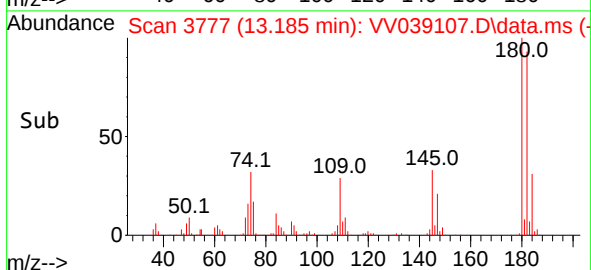
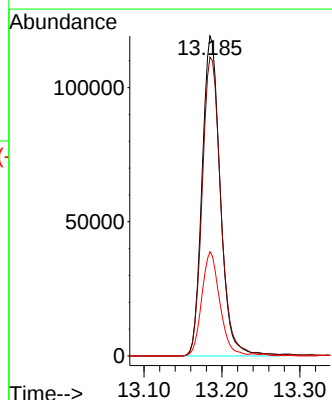
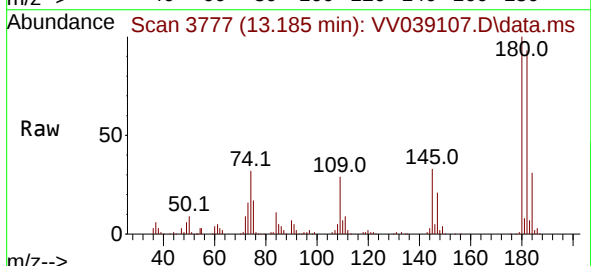
RT: 13.185 min Scan# 3777

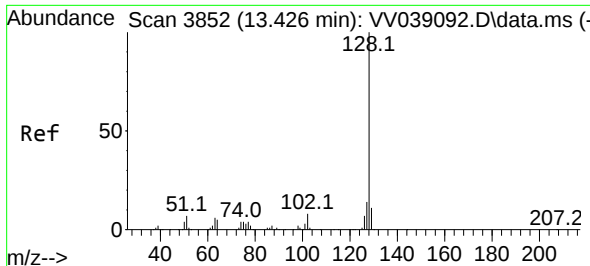
Delta R.T. 0.000 min

Lab File: VV039107.D

Acq: 16 Sep 2025 15:15

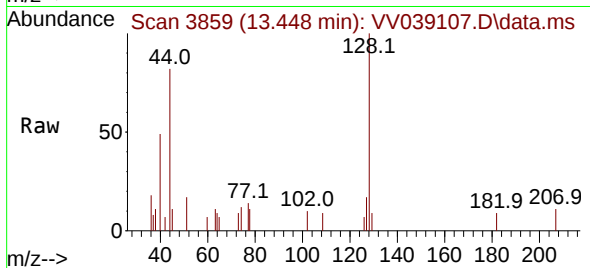
Tgt Ion:180	Resp:	193347
Ion Ratio	Lower	Upper
180	100	
182	95.8	73.2 109.8
145	32.3	25.0 37.4



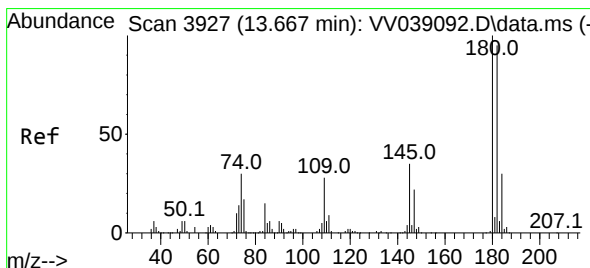
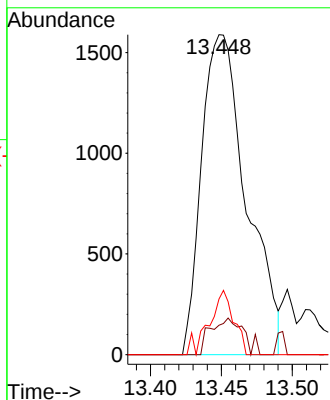
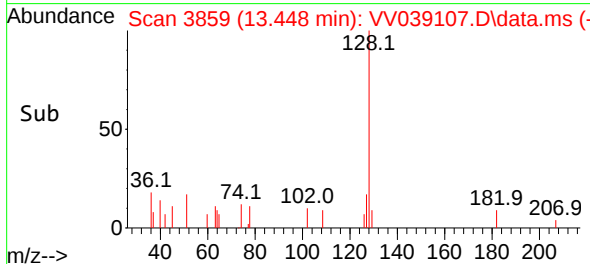


#71
Naphthalene
Concen: 0.101 ug/L
RT: 13.448 min Scan# 31
Delta R.T. 0.023 min
Lab File: VV039107.D
Acq: 16 Sep 2025 15:15

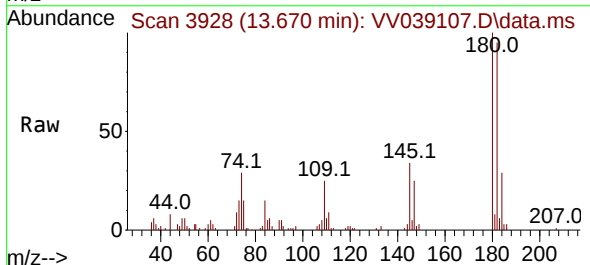
Instrument :
MSVOA_V
ClientSampleId :



Tgt Ion:128 Resp: 3502
Ion Ratio Lower Upper
128 100
129 8.3 8.6 12.8#
127 11.0 10.8 16.2



#72
1,2,3-Trichlorobenzene
Concen: 1.792 ug/L
RT: 13.670 min Scan# 3928
Delta R.T. 0.003 min
Lab File: VV039107.D
Acq: 16 Sep 2025 15:15



Tgt Ion:180 Resp: 36241
Ion Ratio Lower Upper
180 100
182 93.6 76.6 115.0
145 34.0 27.4 41.2

