

Data Path : Z:\voasrv\HPCHEM1\MSVOA_V\DATA\VV092525\
 Data File : VV039192.D
 Acq On : 25 Sep 2025 19:17
 Operator : SY/MD
 Sample : Q3195-02
 Misc : 5.0mL/MSVOA_V/WATER
 ALS Vial : 26 Sample Multiplier: 1

Instrument :
 MSVOA_V
 ClientSampleId :

Quant Time: Sep 26 01:37:29 2025
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_V\Method\82V092225W.M
 Quant Title : SW846 8260
 QLast Update : Wed Sep 24 08:08:08 2025
 Response via : Initial Calibration

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

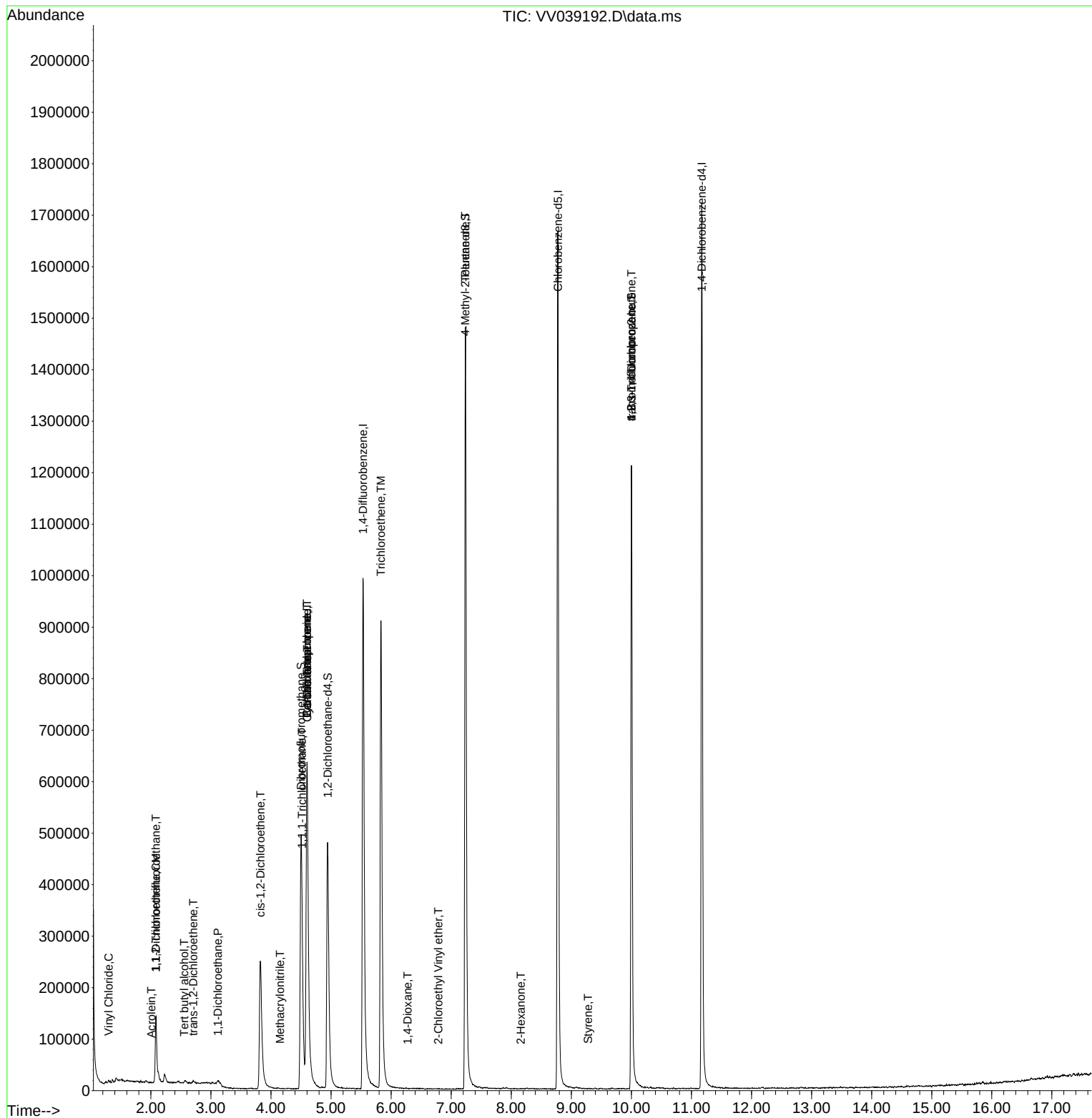
Internal Standards						
1) Pentafluorobenzene	4.600	168	535790	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	5.532	114	971101	50.000	ug/l	0.00
63) Chlorobenzene-d5	8.776	117	956100	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	11.172	152	458217	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	4.944	65	427676	55.152	ug/l	0.00
Spiked Amount	50.000	Range	81 - 118	Recovery	=	110.300%
35) Dibromofluoromethane	4.503	113	398238	51.011	ug/l	0.00
Spiked Amount	50.000	Range	80 - 119	Recovery	=	102.020%
50) Toluene-d8	7.236	98	1062986	46.360	ug/l	0.00
Spiked Amount	50.000	Range	89 - 112	Recovery	=	92.720%
62) 4-Bromofluorobenzene	10.001	95	416581	44.133	ug/l	0.00
Spiked Amount	50.000	Range	85 - 114	Recovery	=	88.260%
Target Compounds						
					Qvalue	
4) Vinyl Chloride	1.298	62	2528	0.259	ug/l #	84
6) Chloroethane	1.417	64	2860	Below Cal	#	44
9) 1,1,2-Trichlorotrifluo...	2.082	101	6382	0.760	ug/l	97
11) Tert butyl alcohol	2.558	59	670	0.409	ug/l #	86
12) 1,1-Dichloroethene	2.085	96	44339	5.489	ug/l	95
13) Acrolein	2.008	56	195	0.686	ug/l #	58
16) Acetone	2.127	43	10921	Below Cal		93
20) Methylene Chloride	2.458	84	1722	Below Cal	#	78
21) trans-1,2-Dichloroethene	2.706	96	2916	0.339	ug/l #	66
24) 1,1-Dichloroethane	3.117	63	6814	0.404	ug/l #	92
27) cis-1,2-Dichloroethene	3.825	96	154086	16.246	ug/l	88
31) Cyclohexane	4.603	56	11788	0.852	ug/l #	1
32) 1,1,1-Trichloroethane	4.516	97	32296	2.116	ug/l	97
36) 1,1-Dichloropropene	4.600	75	46600	3.948	ug/l #	46
38) Carbon Tetrachloride	4.600	117	57899	4.014	ug/l #	17
41) Methacrylonitrile	4.153	41	116	1.928	ug/l #	35
44) Trichloroethene	5.831	130	367152	41.396	ug/l	100
49) 1,4-Dioxane	6.275	88	72	0.504	ug/l #	1
51) 4-Methyl-2-Pentanone	7.233	43	4370	0.340	ug/l #	1
58) 2-Chloroethyl Vinyl ether	6.786	63	123	9.640	ug/l #	47
59) 2-Hexanone	8.159	43	99	2.335	ug/l	89
70) Styrene	9.278	104	48	1.563	ug/l #	26
76) 1,2,3-Trichloropropane	10.001	75	204054	19.559	ug/l #	57
81) trans-1,4-Dichloro-2-b...	10.001	75	204054	46.955	ug/l #	13
92) 1,2-Dibromo-3-Chloropr...	12.275	75	47	Below Cal	#	5

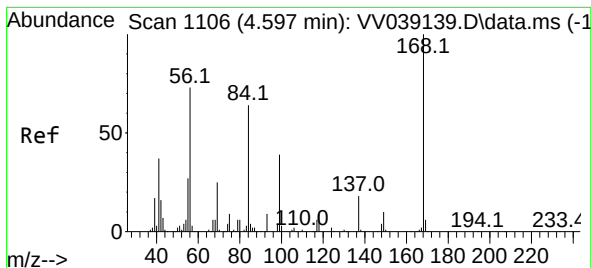
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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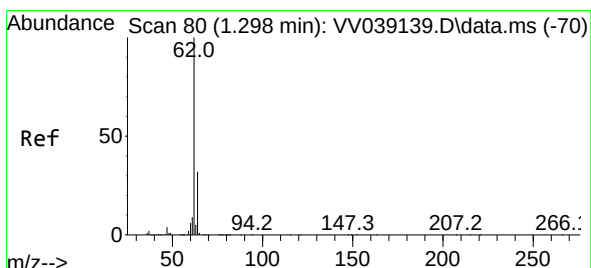
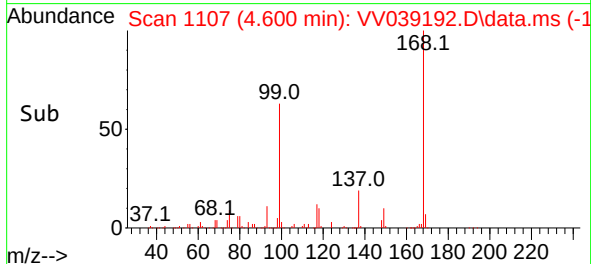
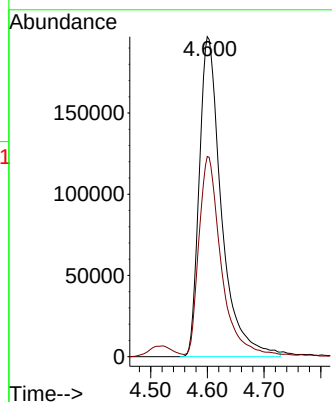
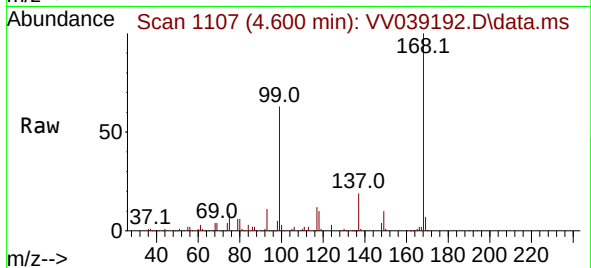




#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 4.600 min Scan# 11
Delta R.T. 0.003 min
Lab File: VV039192.D
Acq: 25 Sep 2025 19:17

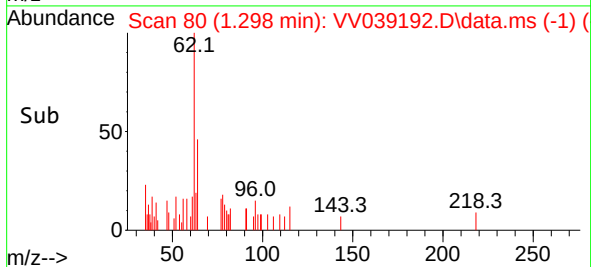
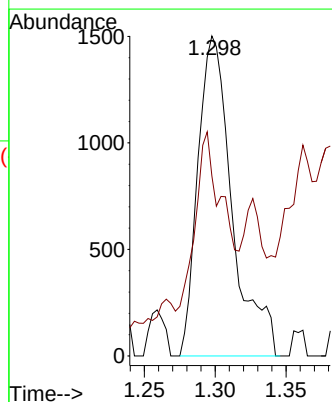
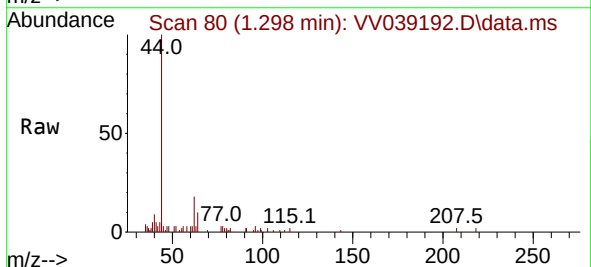
Instrument :
MSVOA_V
ClientSampleId :

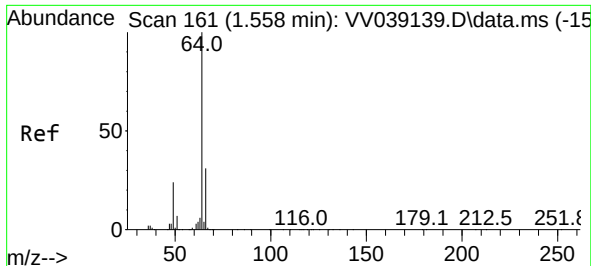
Tgt Ion:168 Resp: 535790
Ion Ratio Lower Upper
168 100
99 61.8 49.6 74.4



#4
Vinyl Chloride
Concen: 0.259 ug/l
RT: 1.298 min Scan# 80
Delta R.T. -0.000 min
Lab File: VV039192.D
Acq: 25 Sep 2025 19:17

Tgt Ion: 62 Resp: 2528
Ion Ratio Lower Upper
62 100
64 40.7 25.6 38.4#

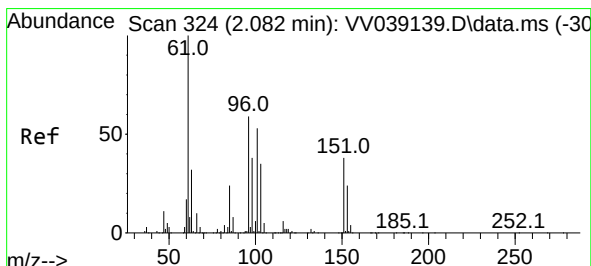
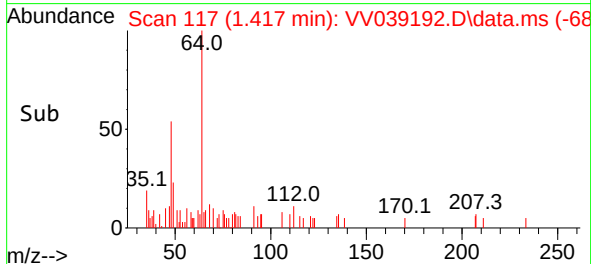
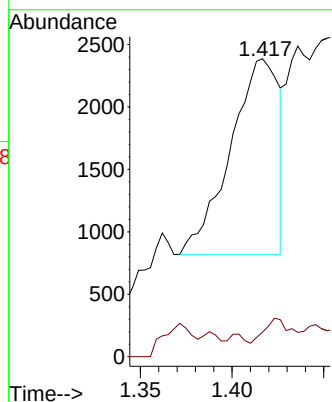
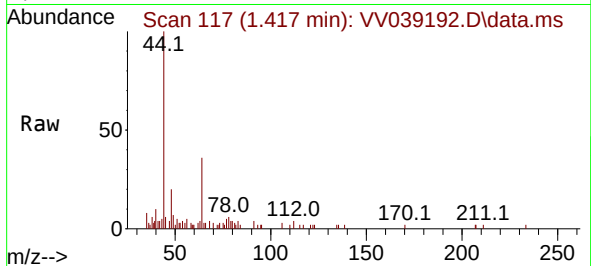




#6
Chloroethane
Concen: Below Cal
RT: 1.417 min Scan# 117
Delta R.T. -0.141 min
Lab File: VV039192.D
Acq: 25 Sep 2025 19:17

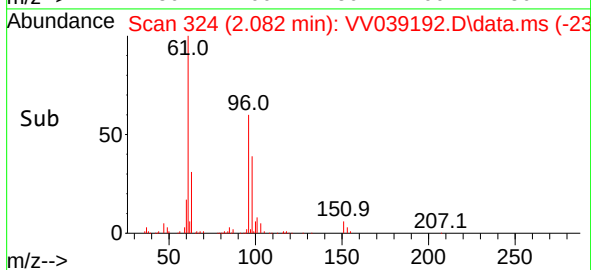
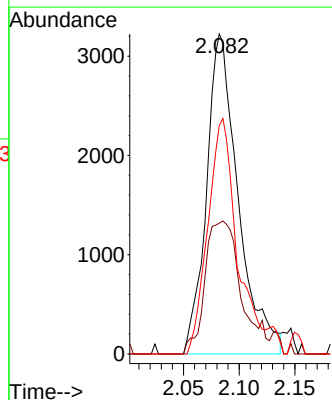
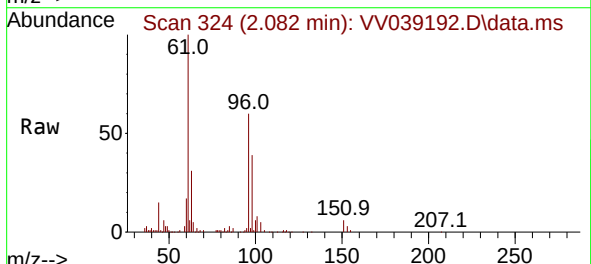
Instrument :
MSVOA_V
ClientSampleId :

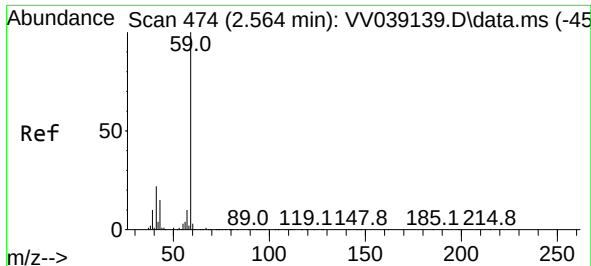
Tgt Ion: 64 Resp: 2860
Ion Ratio Lower Upper
64 100
66 0.0 24.6 36.8#



#9
1,1,2-Trichlorotrifluoroethane
Concen: 0.760 ug/l
RT: 2.082 min Scan# 324
Delta R.T. -0.000 min
Lab File: VV039192.D
Acq: 25 Sep 2025 19:17

Tgt Ion:101 Resp: 6382
Ion Ratio Lower Upper
101 100
85 47.1 36.2 54.2
151 67.7 56.3 84.5

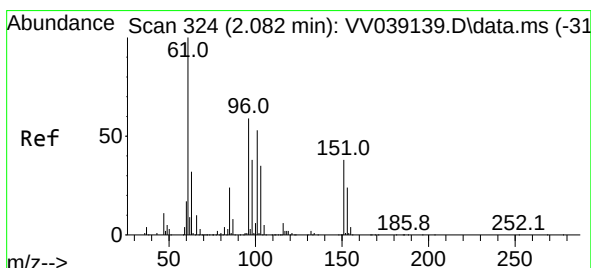
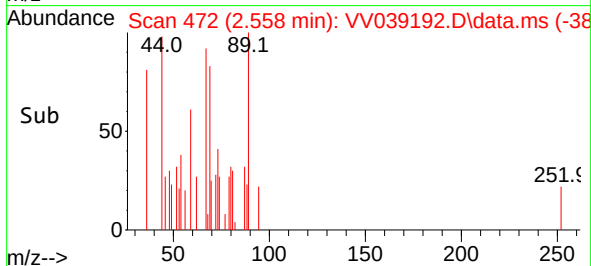
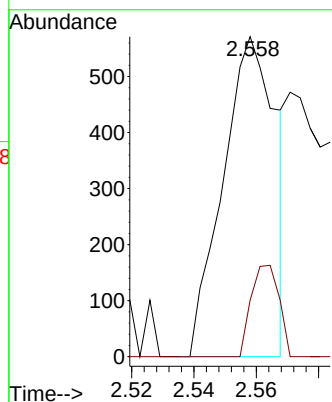
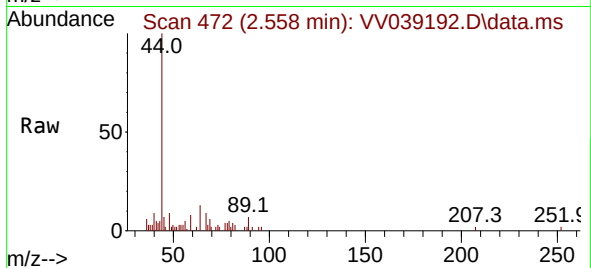




#11
Tert butyl alcohol
Concen: 0.409 ug/l
RT: 2.558 min Scan# 41
Delta R.T. -0.006 min
Lab File: VV039192.D
Acq: 25 Sep 2025 19:17

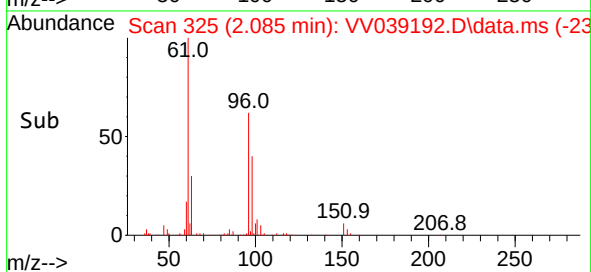
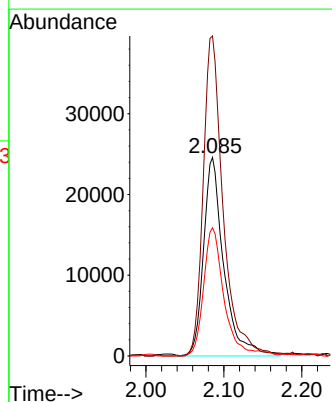
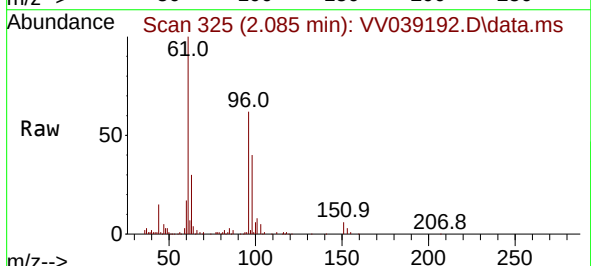
Instrument :
MSVOA_V
ClientSampleId :

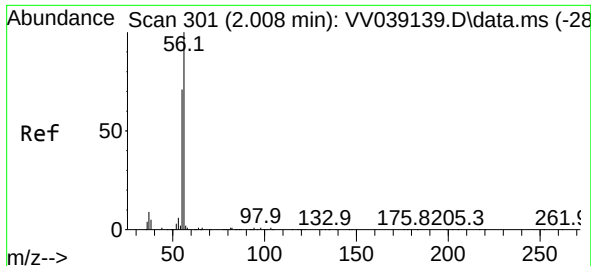
Tgt Ion: 59 Resp: 670
Ion Ratio Lower Upper
59 100
57 15.1 7.8 11.8#



#12
1,1-Dichloroethene
Concen: 5.489 ug/l
RT: 2.085 min Scan# 325
Delta R.T. 0.003 min
Lab File: VV039192.D
Acq: 25 Sep 2025 19:17

Tgt Ion: 96 Resp: 44339
Ion Ratio Lower Upper
96 100
61 161.2 136.0 204.0
98 64.6 51.0 76.6

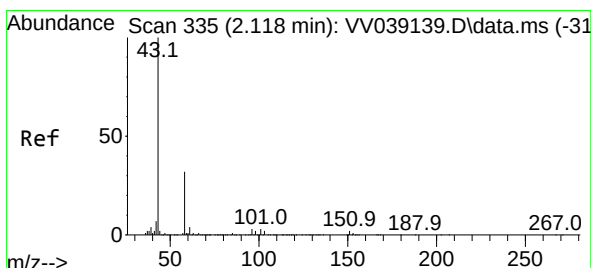
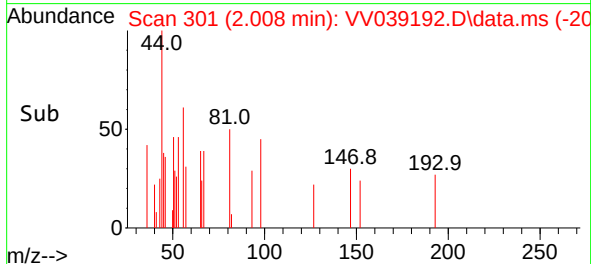
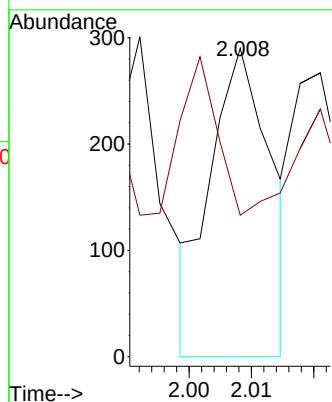
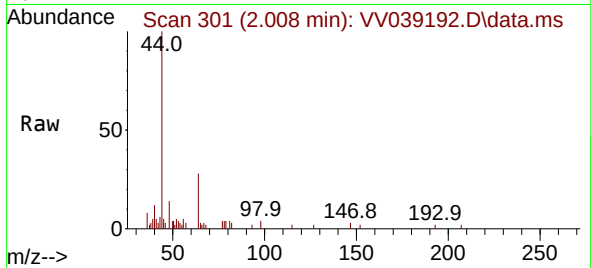




#13
Acrolein
Concen: 0.686 ug/l
RT: 2.008 min Scan# 301
Delta R.T. -0.000 min
Lab File: VV039192.D
Acq: 25 Sep 2025 19:17

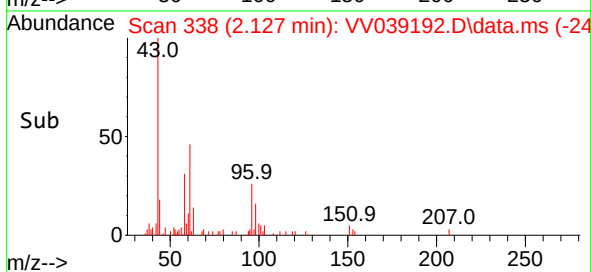
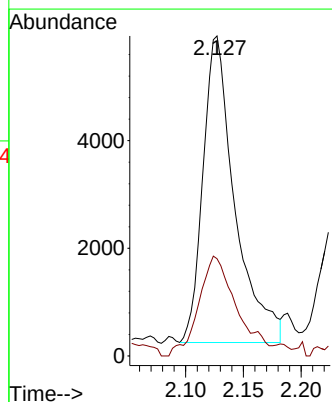
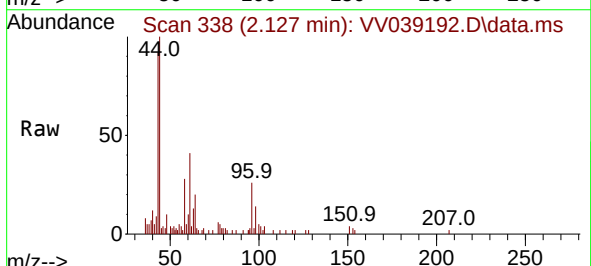
Instrument :
MSVOA_V
ClientSampleId :

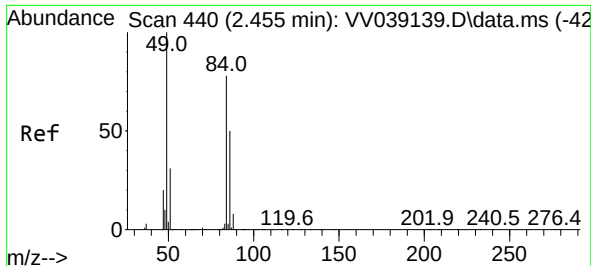
Tgt Ion: 56 Resp: 195
Ion Ratio Lower Upper
56 100
55 35.4 56.2 84.4#



#16
Acetone
Concen: Below Cal
RT: 2.127 min Scan# 338
Delta R.T. 0.009 min
Lab File: VV039192.D
Acq: 25 Sep 2025 19:17

Tgt Ion: 43 Resp: 10921
Ion Ratio Lower Upper
43 100
58 28.0 25.8 38.6

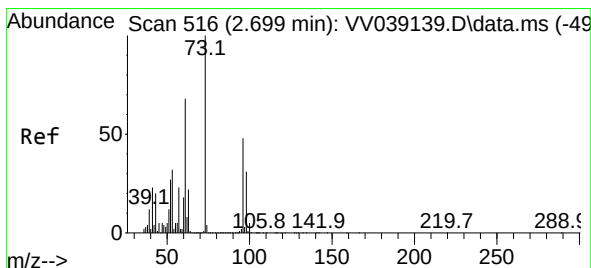
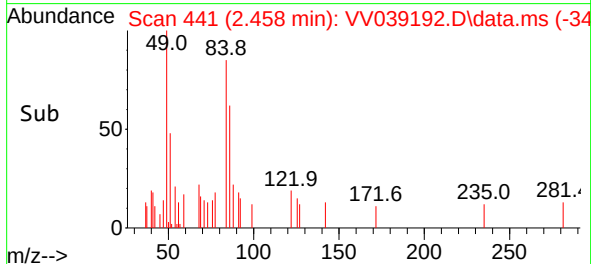
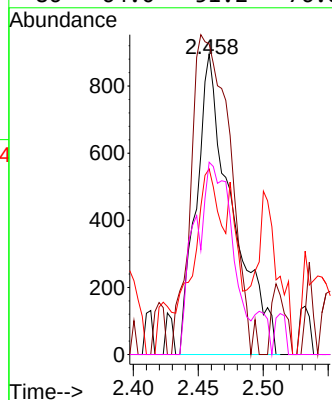
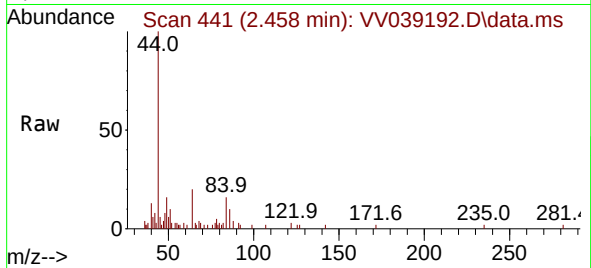




#20
Methylene Chloride
Concen: Below Cal
RT: 2.458 min Scan# 441
Delta R.T. 0.003 min
Lab File: VV039192.D
Acq: 25 Sep 2025 19:17

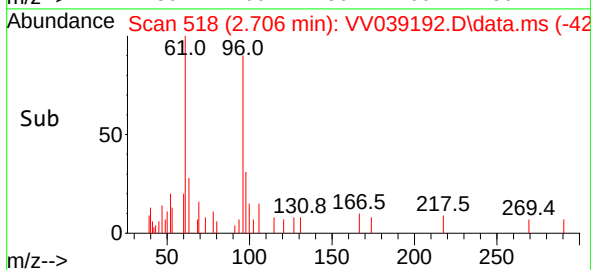
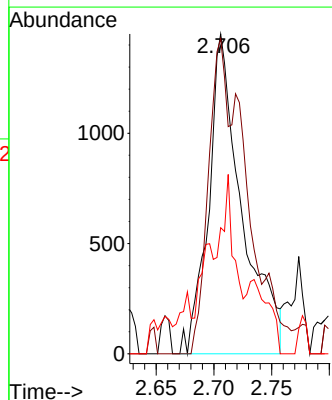
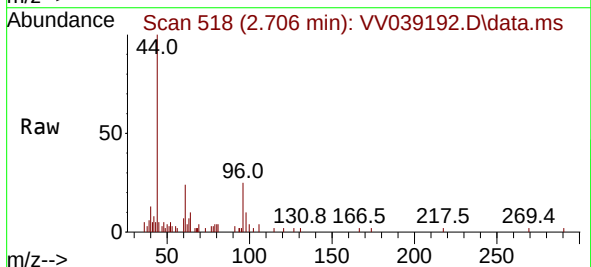
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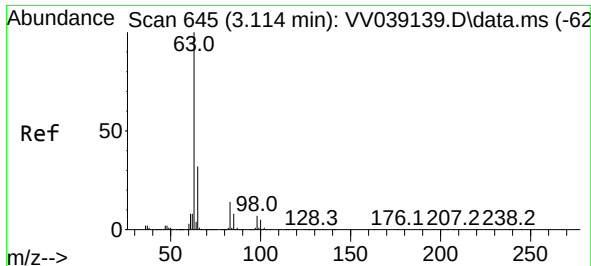
Tgt Ion:	84	Resp:	1722
Ion	Ratio	Lower	Upper
84	100		
49	83.6	102.8	154.2#
51	41.4	31.9	47.9
86	64.0	51.2	76.8



#21
trans-1,2-Dichloroethene
Concen: 0.339 ug/l
RT: 2.706 min Scan# 518
Delta R.T. 0.006 min
Lab File: VV039192.D
Acq: 25 Sep 2025 19:17

Tgt Ion:	96	Resp:	2916
Ion	Ratio	Lower	Upper
96	100		
61	98.5	112.8	169.2#
98	39.4	51.1	76.7#

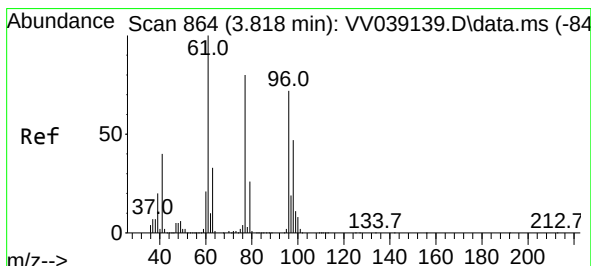
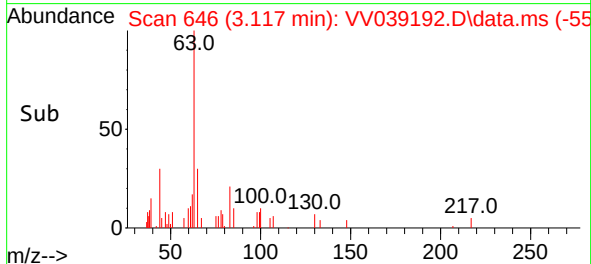
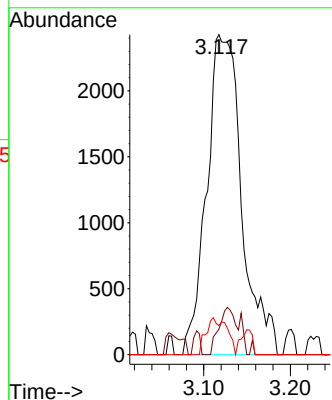
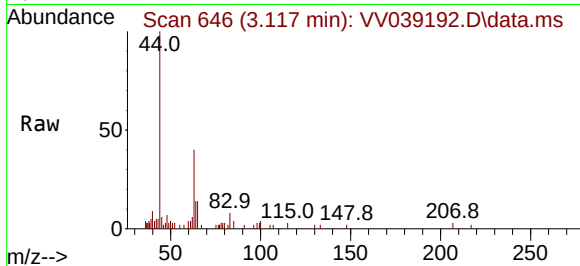




#24
1,1-Dichloroethane
Concen: 0.404 ug/l
RT: 3.117 min Scan# 64
Delta R.T. 0.003 min
Lab File: VV039192.D
Acq: 25 Sep 2025 19:17

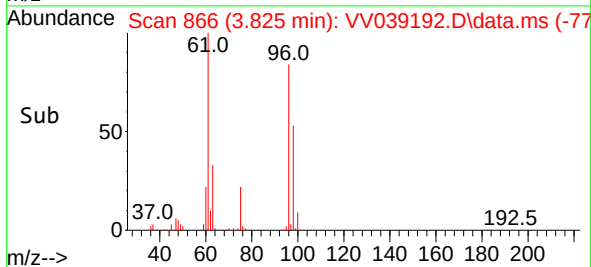
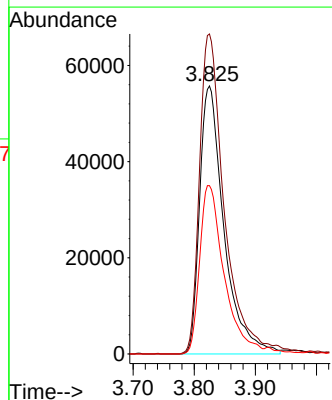
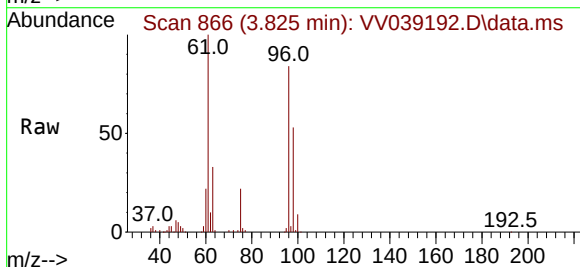
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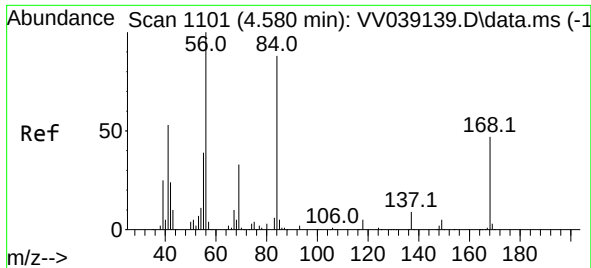
Tgt Ion: 63 Resp: 6814
Ion Ratio Lower Upper
63 100
98 8.0 3.4 10.2
100 9.1 2.2 6.6#



#27
cis-1,2-Dichloroethene
Concen: 16.246 ug/l
RT: 3.825 min Scan# 866
Delta R.T. 0.006 min
Lab File: VV039192.D
Acq: 25 Sep 2025 19:17

Tgt Ion: 96 Resp: 154086
Ion Ratio Lower Upper
96 100
61 122.8 0.0 286.4
98 62.9 0.0 126.6

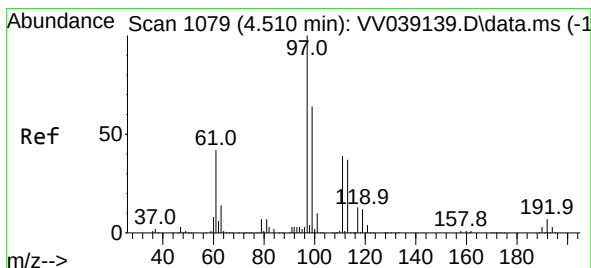
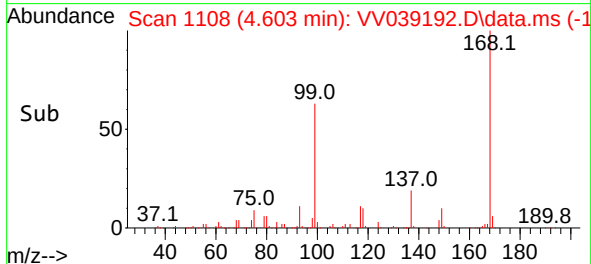
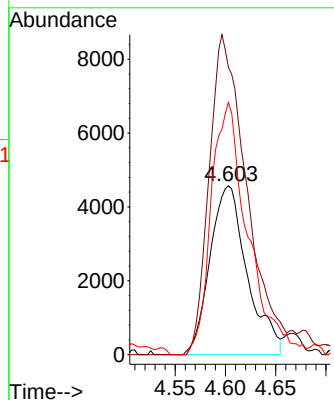
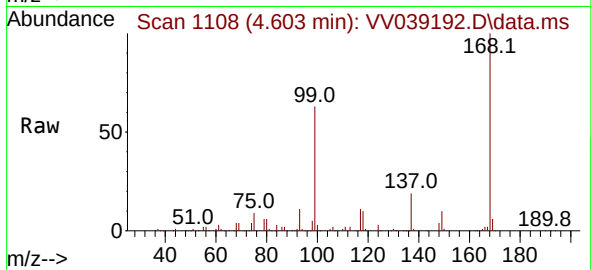




#31
Cyclohexane
Concen: 0.852 ug/l
RT: 4.603 min Scan# 1108
Delta R.T. 0.022 min
Lab File: VV039192.D
Acq: 25 Sep 2025 19:17

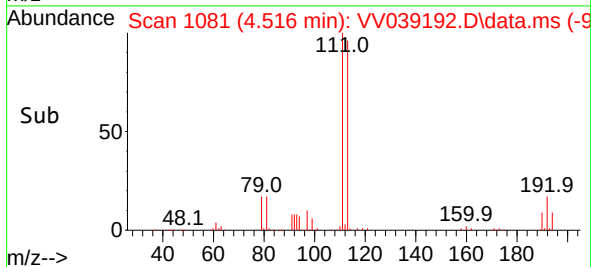
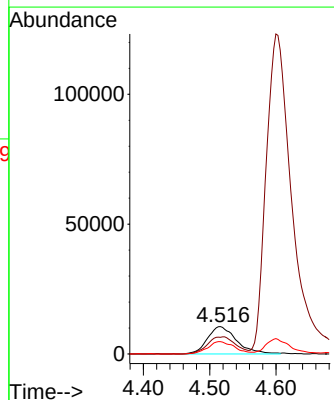
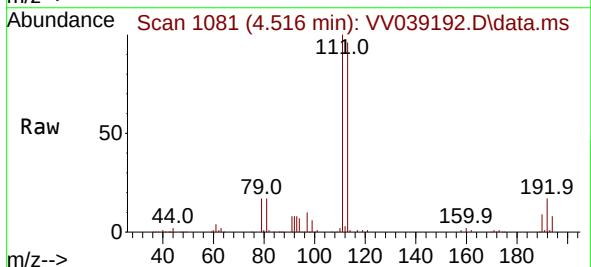
Instrument :
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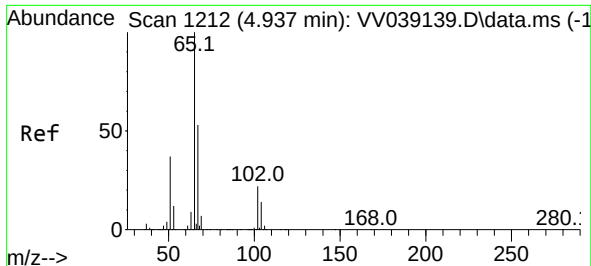
Tgt Ion: 56 Resp: 11788
Ion Ratio Lower Upper
56 100
69 170.2 26.2 39.2#
84 149.3 70.3 105.5#



#32
1,1,1-Trichloroethane
Concen: 2.116 ug/l
RT: 4.516 min Scan# 1081
Delta R.T. 0.006 min
Lab File: VV039192.D
Acq: 25 Sep 2025 19:17

Tgt Ion: 97 Resp: 32296
Ion Ratio Lower Upper
97 100
99 60.3 49.6 74.4
61 40.8 34.5 51.7





#33

1,2-Dichloroethane-d4

Concen: 55.152 ug/l

RT: 4.944 min Scan# 1214

Delta R.T. 0.006 min

Lab File: VV039192.D

Acq: 25 Sep 2025 19:17

Instrument :

MSVOA_V

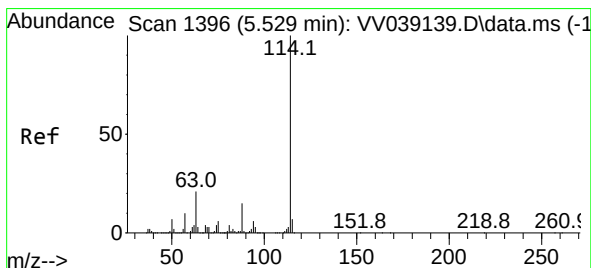
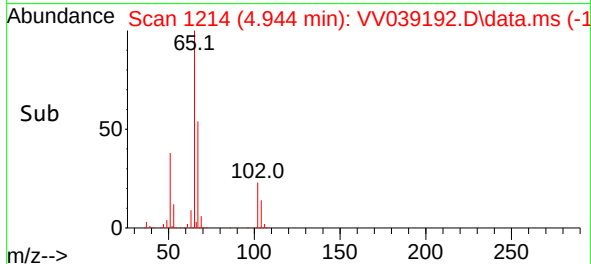
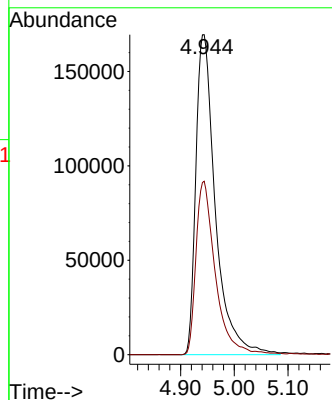
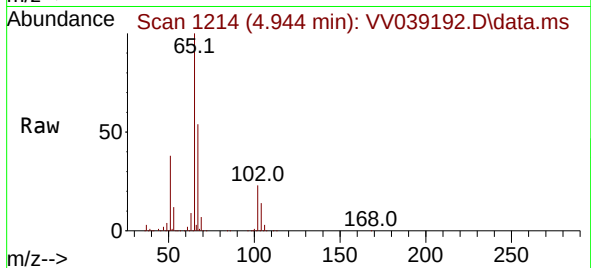
ClientSampleId :

Tgt Ion: 65 Resp: 427676

Ion Ratio Lower Upper

65 100

67 53.9 0.0 107.0



#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 5.532 min Scan# 1397

Delta R.T. 0.003 min

Lab File: VV039192.D

Acq: 25 Sep 2025 19:17

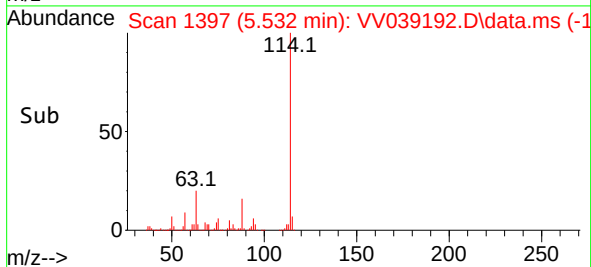
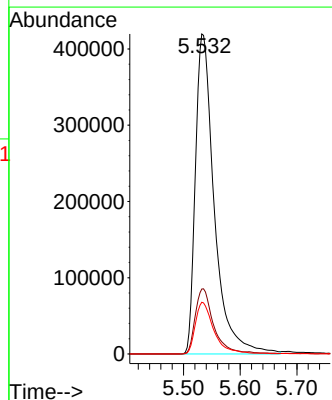
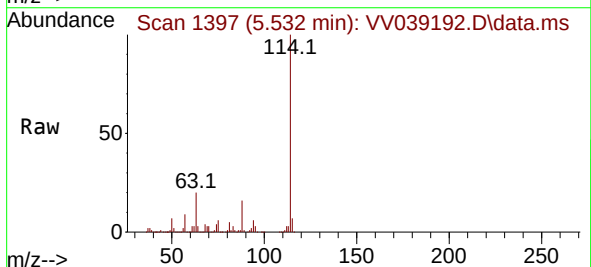
Tgt Ion: 114 Resp: 971101

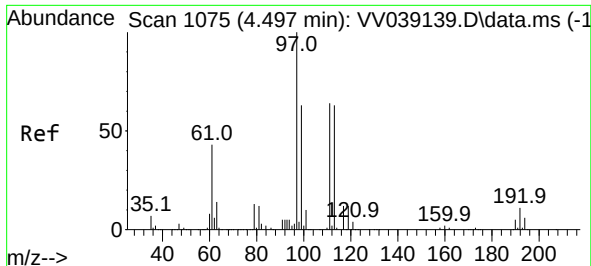
Ion Ratio Lower Upper

114 100

63 20.3 0.0 42.6

88 16.1 0.0 30.8

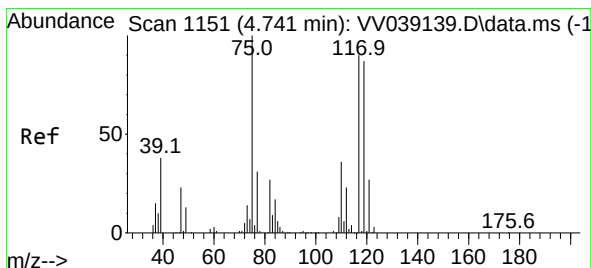
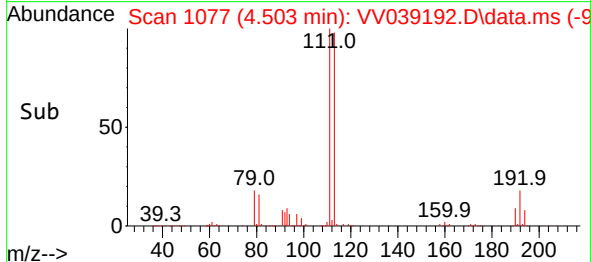
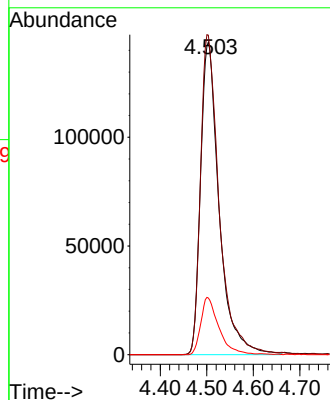
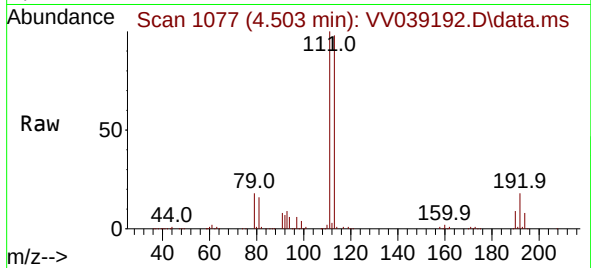




#35
Dibromofluoromethane
Concen: 51.011 ug/l
RT: 4.503 min Scan# 1107
Delta R.T. 0.006 min
Lab File: VV039192.D
Acq: 25 Sep 2025 19:17

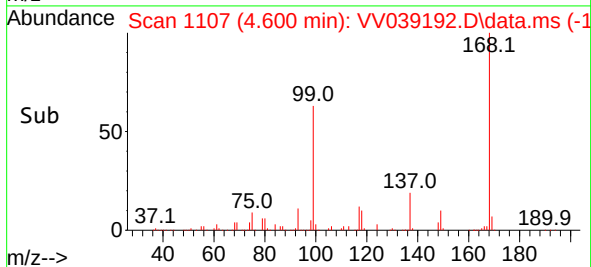
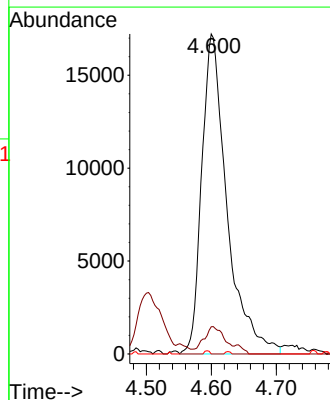
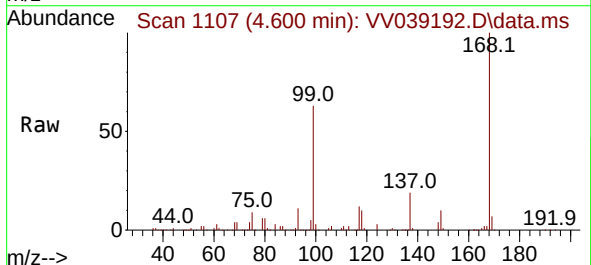
Instrument :
MSVOA_V
ClientSampleId :

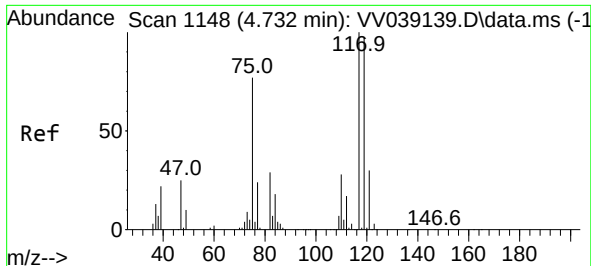
Tgt Ion:113 Resp: 398238
Ion Ratio Lower Upper
113 100
111 102.5 82.4 123.6
192 17.8 13.8 20.8



#36
1,1-Dichloropropene
Concen: 3.948 ug/l
RT: 4.600 min Scan# 1107
Delta R.T. -0.141 min
Lab File: VV039192.D
Acq: 25 Sep 2025 19:17

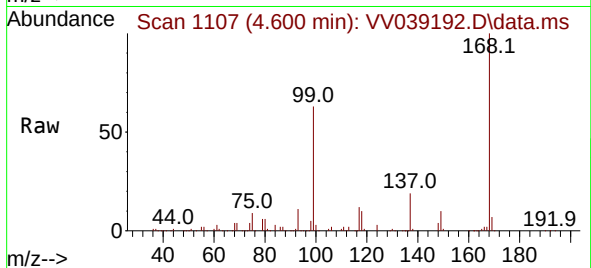
Tgt Ion: 75 Resp: 46600
Ion Ratio Lower Upper
75 100
110 5.0 18.1 54.1#
77 0.2 24.8 37.2#



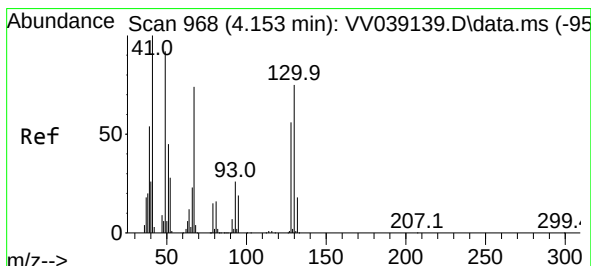
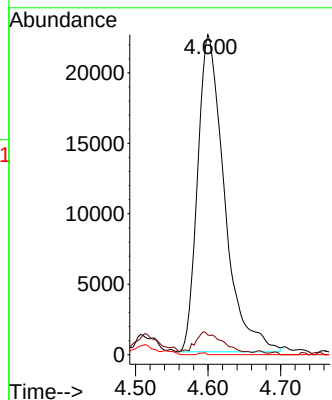
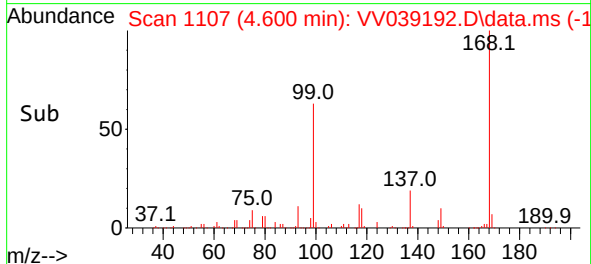


#38
Carbon Tetrachloride
Concen: 4.014 ug/l
RT: 4.600 min Scan# 1148
Delta R.T. -0.132 min
Lab File: VV039192.D
Acq: 25 Sep 2025 19:17

Instrument :
MSVOA_V
ClientSampleId :

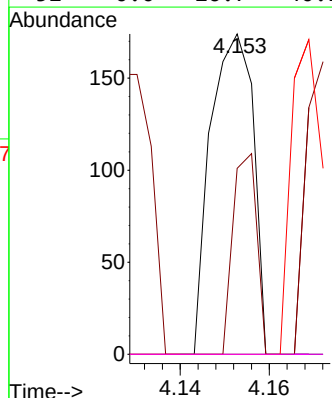
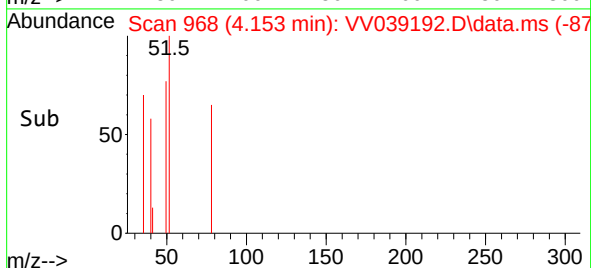
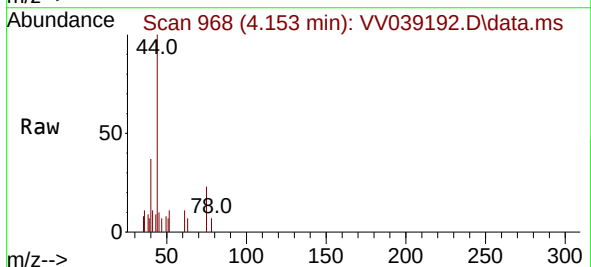


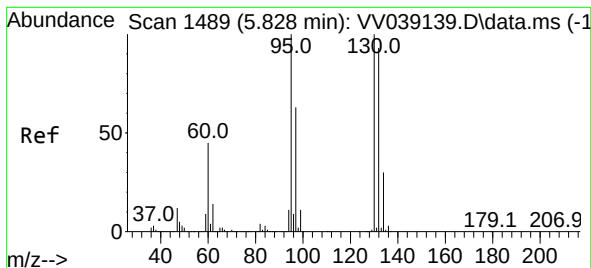
Tgt Ion:117 Resp: 57899
Ion Ratio Lower Upper
117 100
119 6.2 77.2 115.8#
121 0.0 24.2 36.2#



#41
Methacrylonitrile
Concen: 1.928 ug/l
RT: 4.153 min Scan# 968
Delta R.T. -0.000 min
Lab File: VV039192.D
Acq: 25 Sep 2025 19:17

Tgt Ion: 41 Resp: 116
Ion Ratio Lower Upper
41 100
39 35.3 42.2 63.2#
67 0.0 67.9 101.9#
52 0.0 26.7 40.1#





#44

Trichloroethene

Concen: 41.396 ug/l

RT: 5.831 min Scan# 1489

Delta R.T. 0.003 min

Lab File: VV039192.D

Acq: 25 Sep 2025 19:17

Instrument :

MSVOA_V

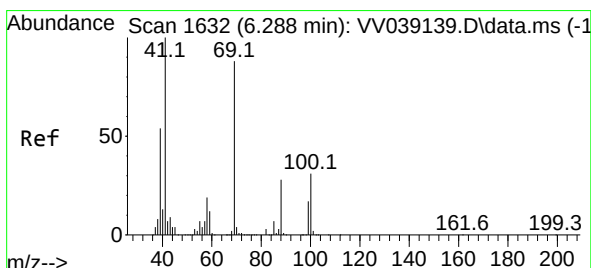
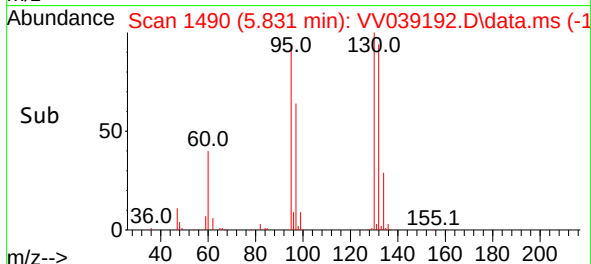
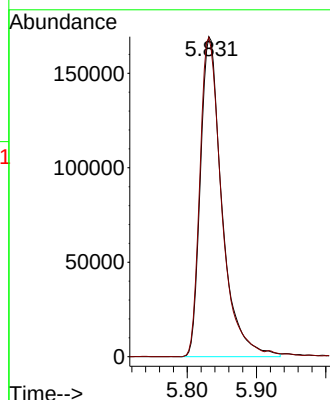
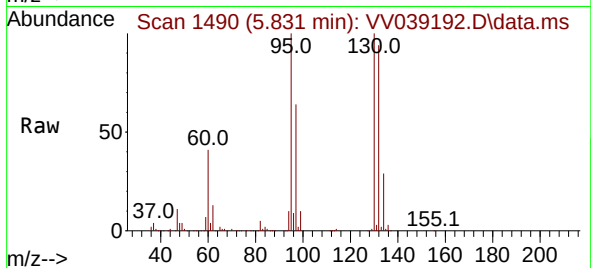
ClientSampleId :

Tgt Ion:130 Resp: 367152

Ion Ratio Lower Upper

130 100

95 99.7 0.0 199.2



#49

1,4-Dioxane

Concen: 0.504 ug/l

RT: 6.275 min Scan# 1628

Delta R.T. -0.013 min

Lab File: VV039192.D

Acq: 25 Sep 2025 19:17

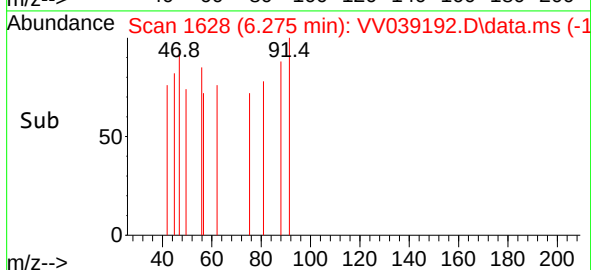
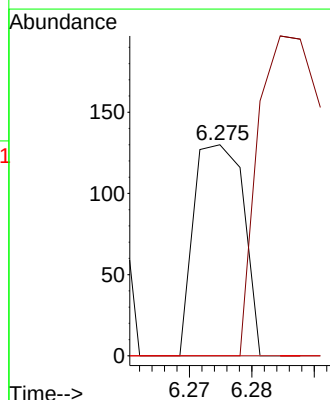
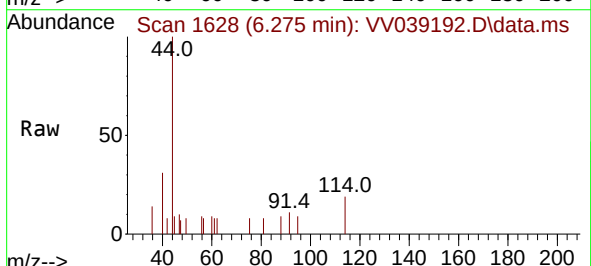
Tgt Ion: 88 Resp: 72

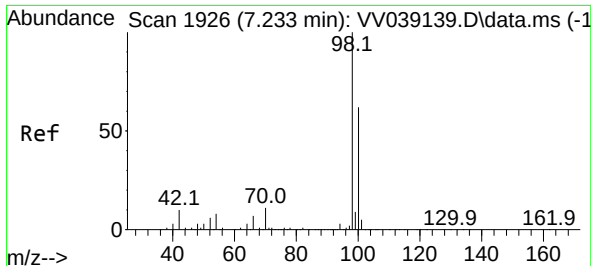
Ion Ratio Lower Upper

88 100

43 187.5 25.1 37.7#

58 0.0 53.6 80.4#

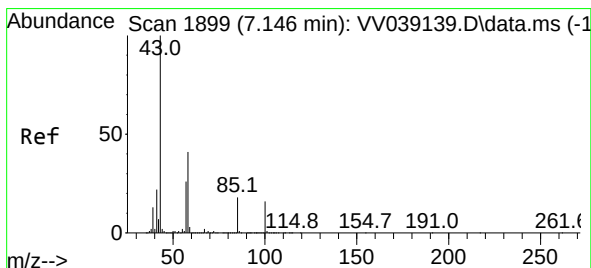
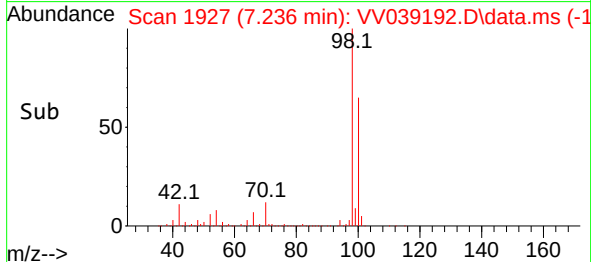
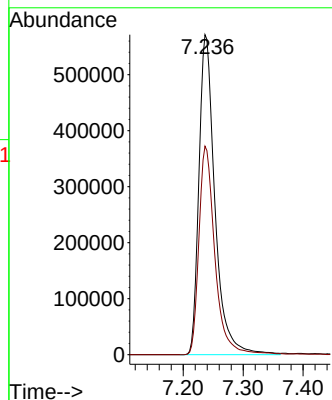
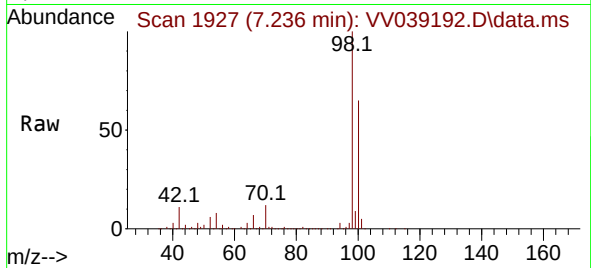




#50
Toluene-d8
Concen: 46.360 ug/l
RT: 7.236 min Scan# 1927
Delta R.T. 0.003 min
Lab File: VV039192.D
Acq: 25 Sep 2025 19:17

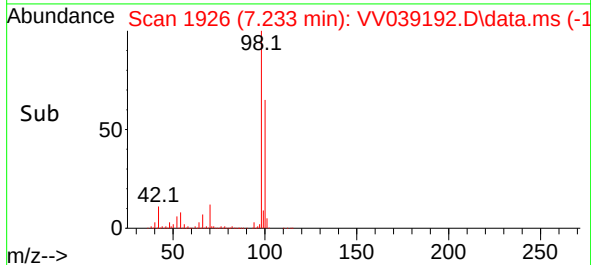
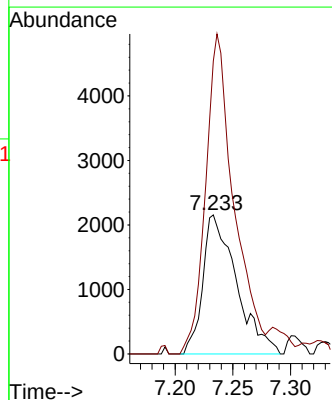
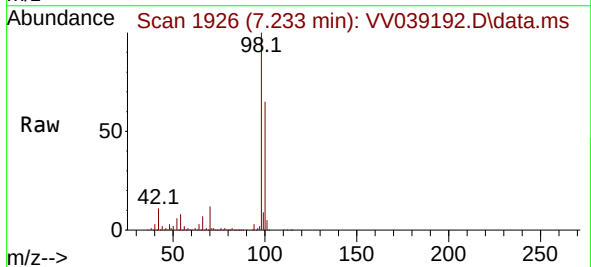
Instrument :
MSVOA_V
ClientSampleId :

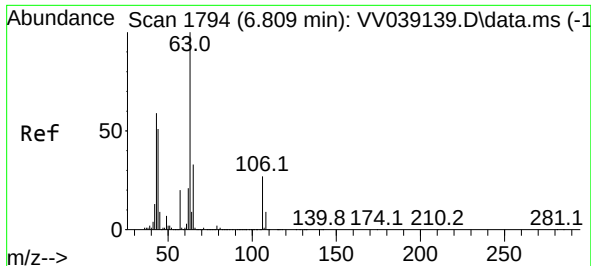
Tgt Ion: 98 Resp: 1062986
Ion Ratio Lower Upper
98 100
100 65.1 52.2 78.2



#51
4-Methyl-2-Pentanone
Concen: 0.340 ug/l
RT: 7.233 min Scan# 1926
Delta R.T. 0.087 min
Lab File: VV039192.D
Acq: 25 Sep 2025 19:17

Tgt Ion: 43 Resp: 4370
Ion Ratio Lower Upper
43 100
58 193.0 32.3 48.5

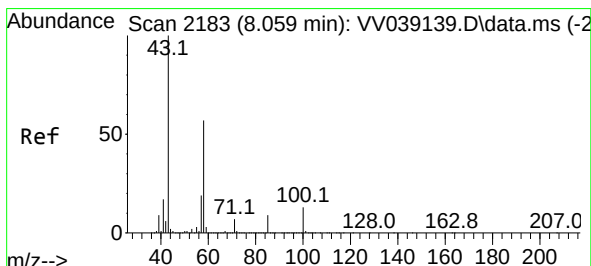
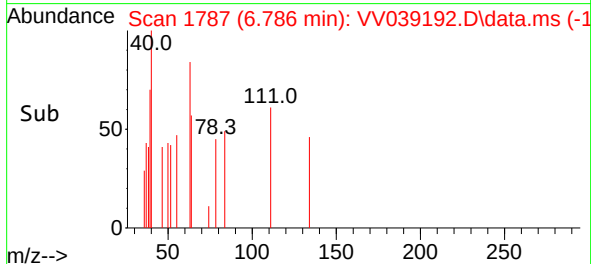
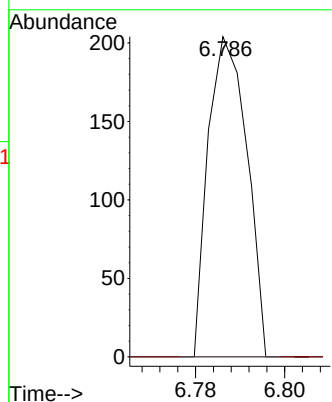
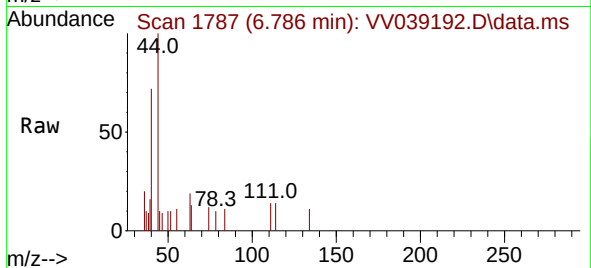




#58
2-Chloroethyl Vinyl ether
Concen: 9.640 ug/l
RT: 6.786 min Scan# 11
Delta R.T. -0.023 min
Lab File: VV039192.D
Acq: 25 Sep 2025 19:17

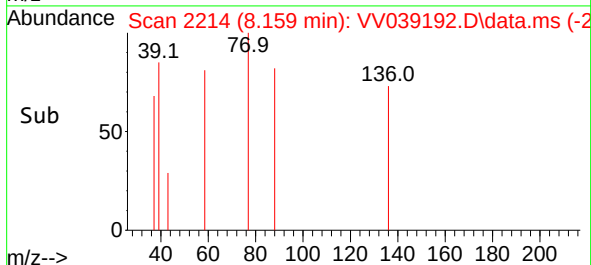
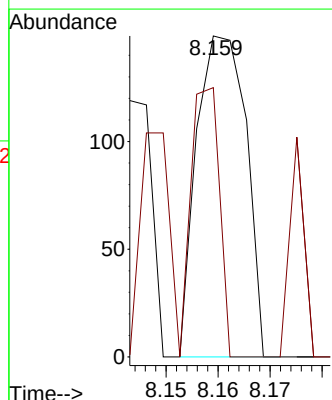
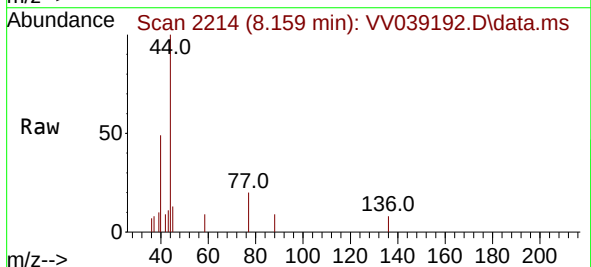
Instrument :
MSVOA_V
ClientSampleId :

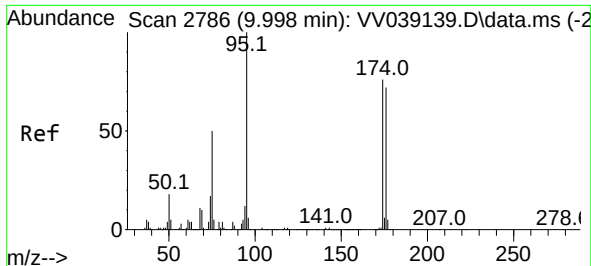
Tgt Ion: 63 Resp: 123
Ion Ratio Lower Upper
63 100
106 0.0 22.1 33.1#



#59
2-Hexanone
Concen: 2.335 ug/l
RT: 8.159 min Scan# 2214
Delta R.T. 0.100 min
Lab File: VV039192.D
Acq: 25 Sep 2025 19:17

Tgt Ion: 43 Resp: 99
Ion Ratio Lower Upper
43 100
58 48.5 28.3 85.0

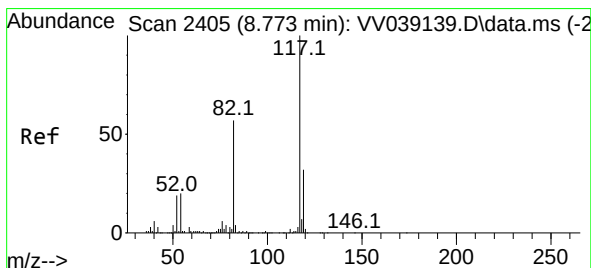
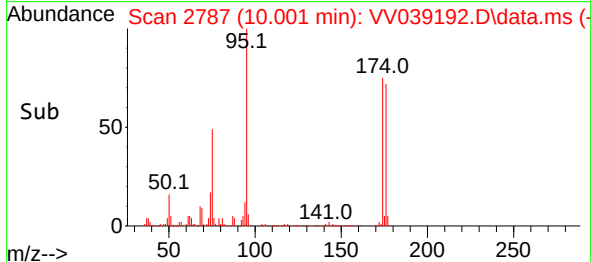
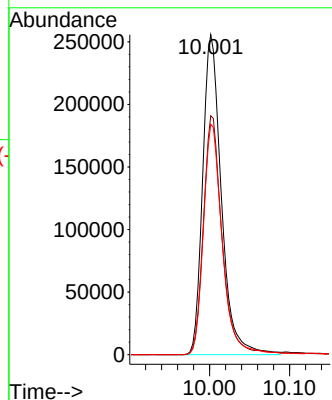
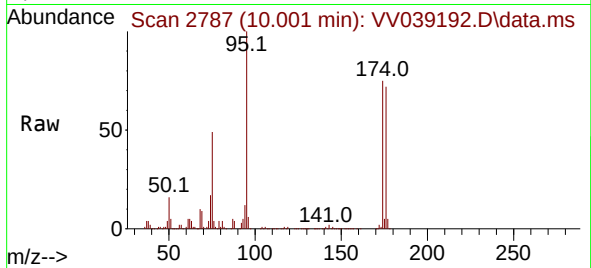




#62
4-Bromofluorobenzene
Concen: 44.133 ug/l
RT: 10.001 min Scan# 21
Delta R.T. 0.003 min
Lab File: VV039192.D
Acq: 25 Sep 2025 19:17

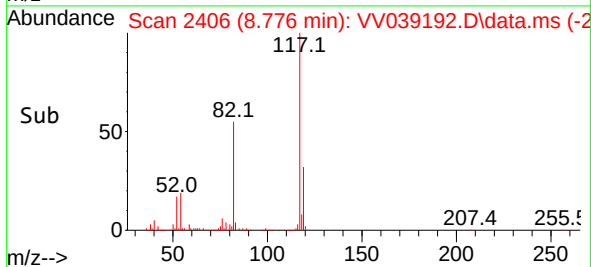
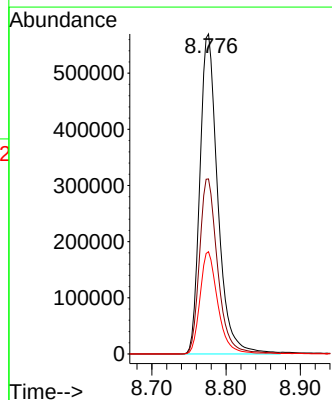
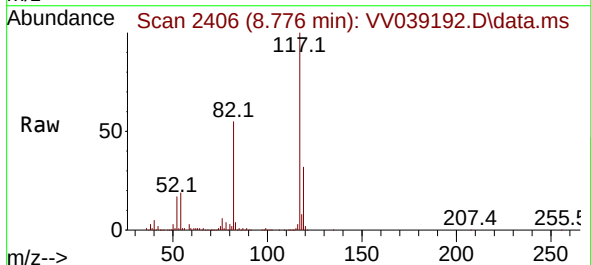
Instrument :
MSVOA_V
ClientSampleId :

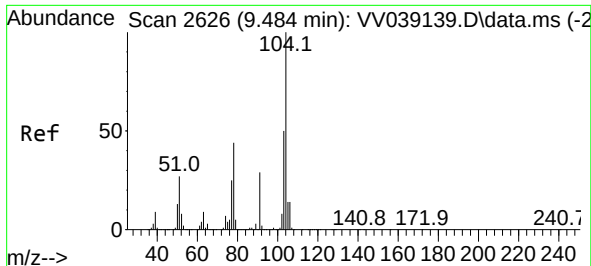
Tgt Ion: 95 Resp: 416581
Ion Ratio Lower Upper
95 100
174 74.8 0.0 150.4
176 72.5 0.0 144.2



#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 8.776 min Scan# 2406
Delta R.T. 0.003 min
Lab File: VV039192.D
Acq: 25 Sep 2025 19:17

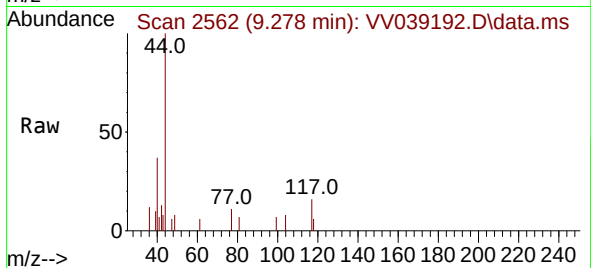
Tgt Ion: 117 Resp: 956100
Ion Ratio Lower Upper
117 100
82 54.7 45.4 68.2
119 31.9 25.6 38.4



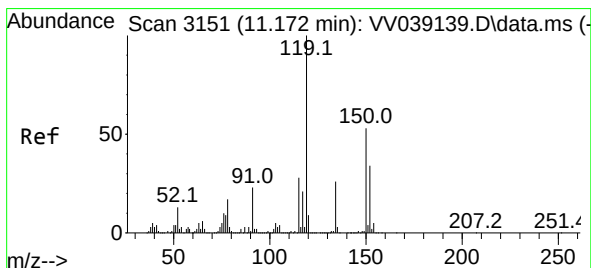
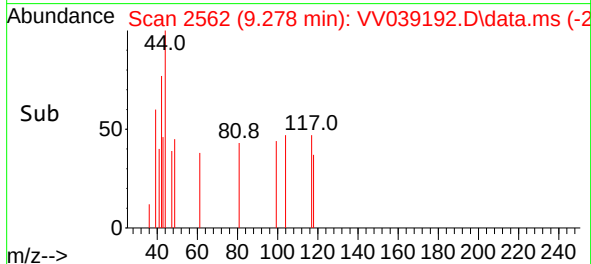
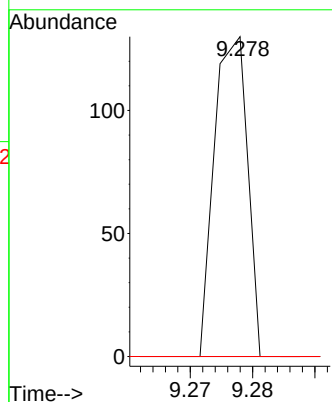


#70
Styrene
Concen: 1.563 ug/l
RT: 9.278 min Scan# 21
Delta R.T. -0.206 min
Lab File: VV039192.D
Acq: 25 Sep 2025 19:17

Instrument :
MSVOA_V
ClientSampleId :

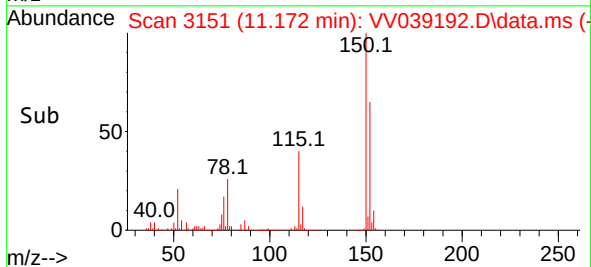
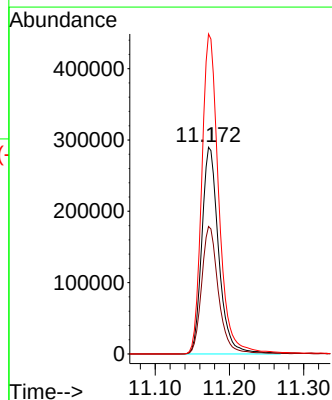
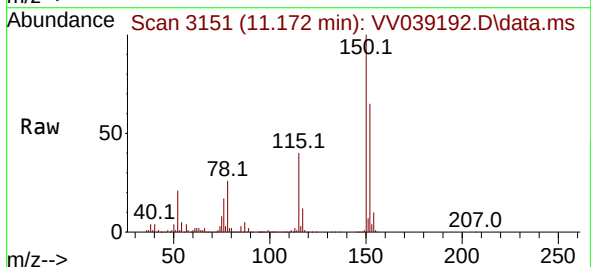


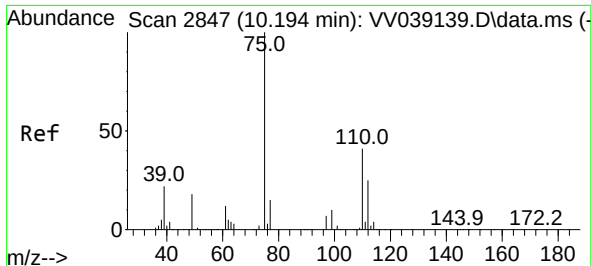
Tgt Ion:104 Resp: 48
Ion Ratio Lower Upper
104 100
78 0.0 39.8 59.6#
103 0.0 43.4 65.2#



#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 11.172 min Scan# 3151
Delta R.T. -0.000 min
Lab File: VV039192.D
Acq: 25 Sep 2025 19:17

Tgt Ion:152 Resp: 458217
Ion Ratio Lower Upper
152 100
115 61.7 44.8 134.4
150 156.4 0.0 353.8

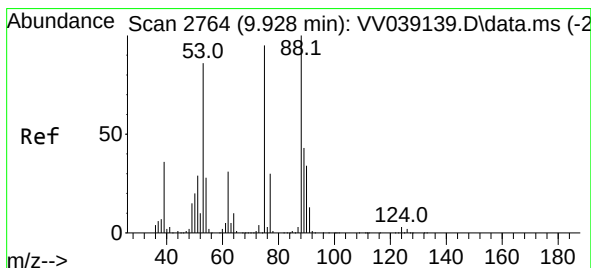
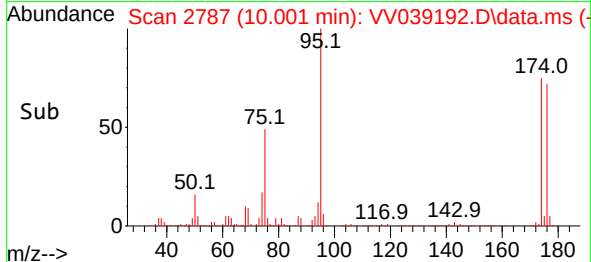
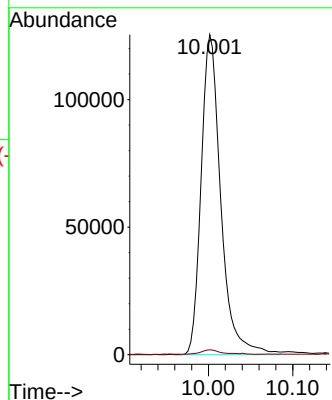
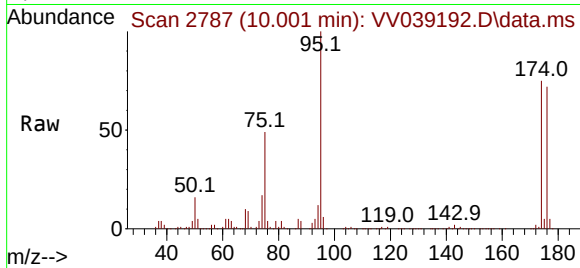




#76
1,2,3-Trichloropropane
Concen: 19.559 ug/l
RT: 10.001 min Scan# 2787
Delta R.T. -0.193 min
Lab File: VV039192.D
Acq: 25 Sep 2025 19:17

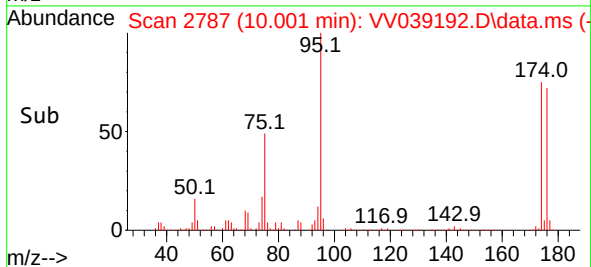
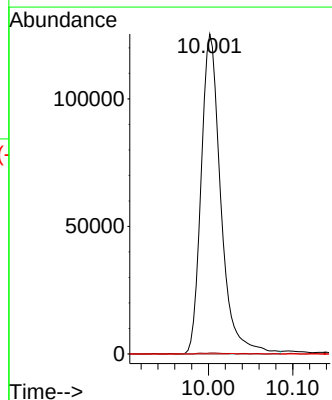
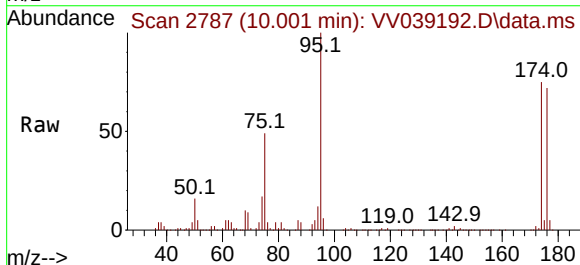
Instrument :
MSVOA_V
ClientSampleId :

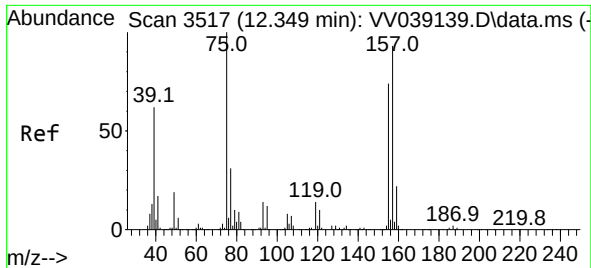
Tgt Ion: 75 Resp: 204054
Ion Ratio Lower Upper
75 100
77 1.6 11.3 33.8#



#81
trans-1,4-Dichloro-2-butene
Concen: 46.955 ug/l
RT: 10.001 min Scan# 2787
Delta R.T. 0.074 min
Lab File: VV039192.D
Acq: 25 Sep 2025 19:17

Tgt Ion: 75 Resp: 204054
Ion Ratio Lower Upper
75 100
53 0.3 72.5 108.7#
89 0.0 37.2 55.8#





#92

1,2-Dibromo-3-Chloropropane

Concen: Below Cal

RT: 12.275 min Scan# 34

Delta R.T. -0.074 min

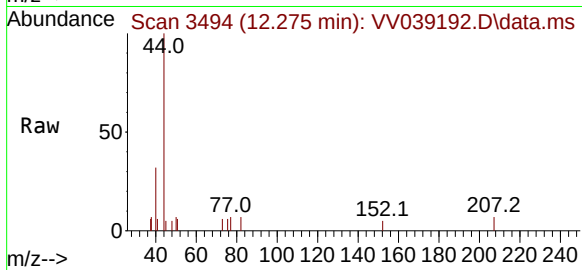
Lab File: VV039192.D

Acq: 25 Sep 2025 19:17

Instrument :

MSVOA_V

ClientSampleId :



Tgt Ion: 75 Resp: 47

Ion Ratio Lower Upper

75 100

155 0.0 38.6 115.8#

157 0.0 49.5 148.3#

