

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX032025\
 Data File : VX045367.D
 Acq On : 20 Mar 2025 17:32
 Operator : JC/MD
 Sample : Q1582-07
 Misc : 5.0mL/MSVOA_X/WATER
 ALS Vial : 22 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :
 RE131D2-20250313

Quant Time: Mar 21 01:51:51 2025
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X022825W.M
 Quant Title : SW846 8260
 QLast Update : Fri Feb 28 06:45:16 2025
 Response via : Initial Calibration

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

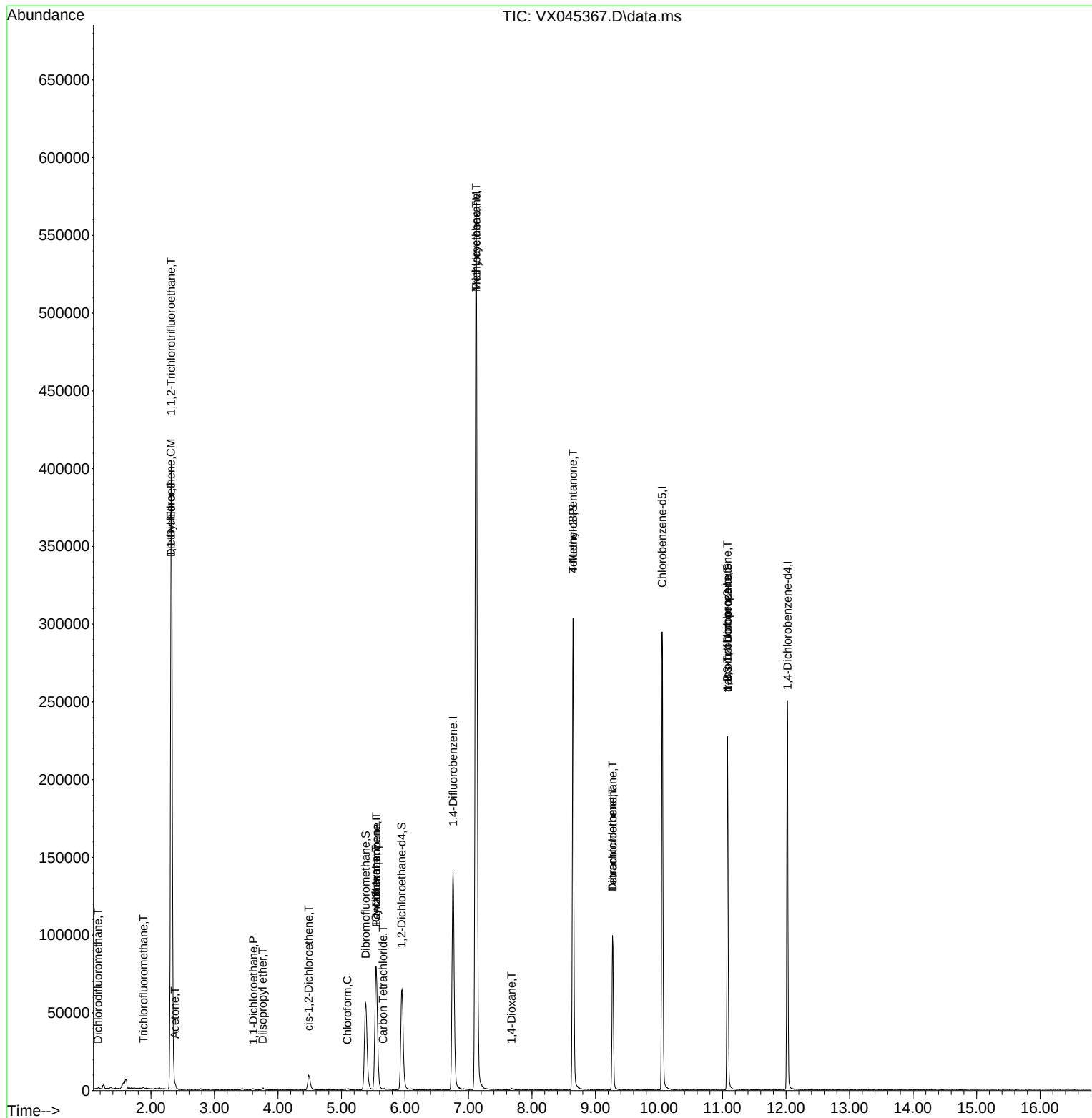
Internal Standards						
1) Pentafluorobenzene	5.550	168	69745	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	6.757	114	137359	50.000	ug/l	0.00
63) Chlorobenzene-d5	10.049	117	123326	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.024	152	47211	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	5.946	65	64084	57.765	ug/l	0.00
Spiked Amount	50.000	Range	74 - 125	Recovery	= 115.520%	
35) Dibromofluoromethane	5.379	113	48835	53.169	ug/l	0.00
Spiked Amount	50.000	Range	75 - 124	Recovery	= 106.340%	
50) Toluene-d8	8.647	98	169280	50.838	ug/l	0.00
Spiked Amount	50.000	Range	86 - 113	Recovery	= 101.680%	
62) 4-Bromofluorobenzene	11.079	95	58133	52.685	ug/l	0.00
Spiked Amount	50.000	Range	77 - 121	Recovery	= 105.380%	
Target Compounds						
					Qvalue	
2) Dichlorodifluoromethane	1.166	85	343	0.391	ug/l	86
7) Trichlorofluoromethane	1.880	101	382	0.271	ug/l #	62
8) Diethyl Ether	2.312	74	124	0.225	ug/l #	1
9) 1,1,2-Trichlorotrifluo...	2.319	101	162076	199.943	ug/l	98
12) 1,1-Dichloroethene	2.312	96	1699	1.982	ug/l	85
16) Acetone	2.380	43	832	1.616	ug/l	97
22) Diisopropyl ether	3.757	45	1064	0.343	ug/l #	76
24) 1,1-Dichloroethane	3.611	63	891	0.512	ug/l #	83
27) cis-1,2-Dichloroethene	4.483	96	5923	5.667	ug/l	95
30) Chloroform	5.092	83	939	0.544	ug/l	90
31) Cyclohexane	5.544	56	1991	1.319	ug/l #	46
36) 1,1-Dichloropropene	5.550	75	6801	5.399	ug/l #	51
38) Carbon Tetrachloride	5.653	117	266	0.208	ug/l #	12
39) Methylcyclohexane	7.123	83	2879	1.908	ug/l #	1
44) Trichloroethene	7.123	130	213081	228.147	ug/l	99
49) 1,4-Dioxane	7.677	88	805	31.694	ug/l	91
51) 4-Methyl-2-Pentanone	8.647	43	946	0.587	ug/l #	1
60) Dibromochloromethane	9.269	129	18008	17.927	ug/l #	11
64) Tetrachloroethene	9.269	164	17539	22.205	ug/l	95
76) 1,2,3-Trichloropropane	11.079	75	32782	29.833	ug/l #	36
81) trans-1,4-Dichloro-2-b...	11.079	75	32782	102.095	ug/l #	6

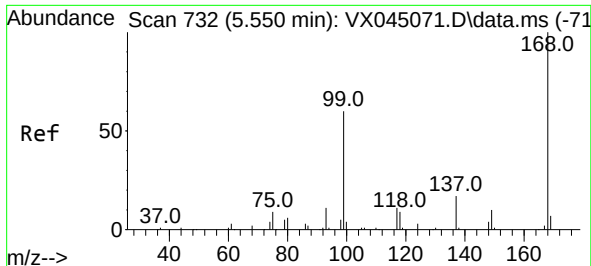
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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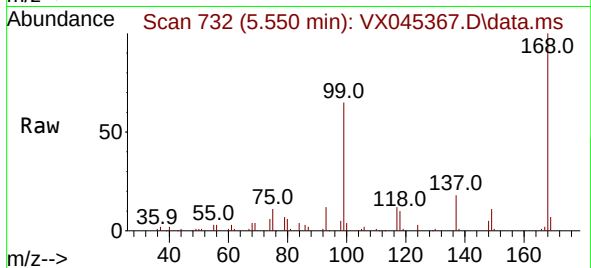
Quant Time: Mar 21 01:51:51 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X022825W.M
Quant Title : SW846 8260
QLast Update : Fri Feb 28 06:45:16 2025
Response via : Initial Calibration



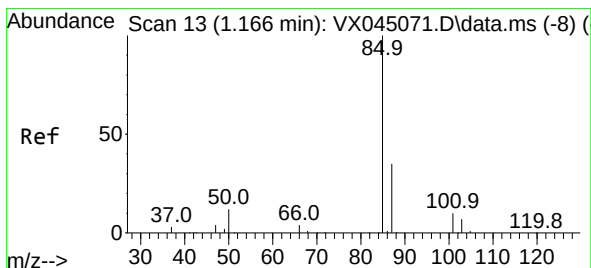
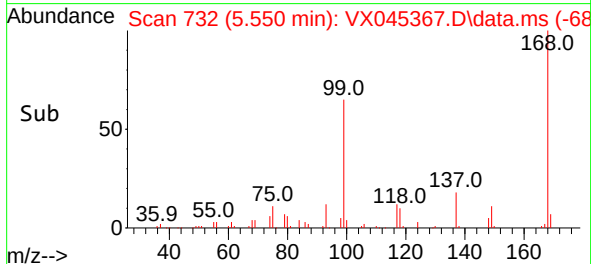
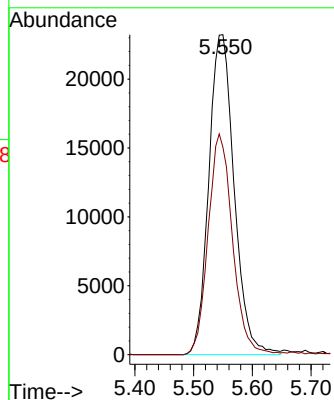


#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 5.550 min Scan# 71
Delta R.T. -0.000 min
Lab File: VX045367.D
Acq: 20 Mar 2025 17:32

Instrument :
MSVOA_X
ClientSampleId :
RE131D2-20250313

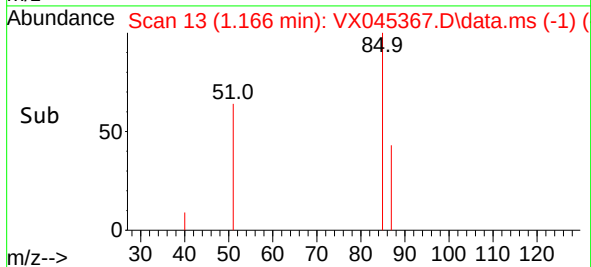
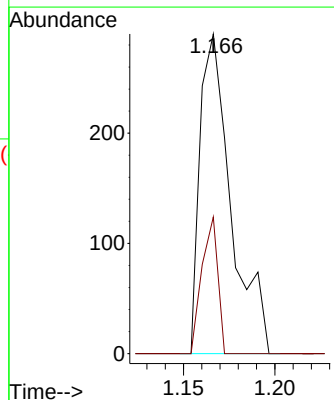
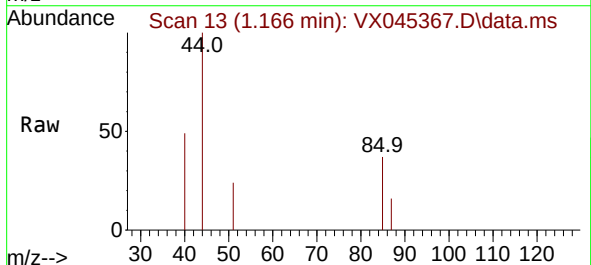


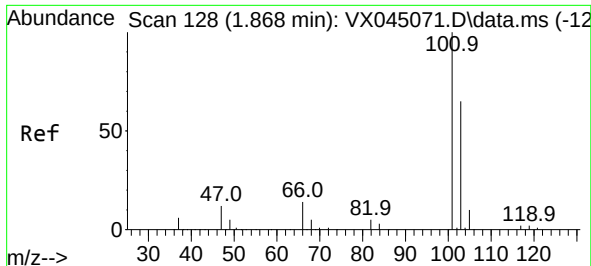
Tgt Ion:168 Resp: 69745
Ion Ratio Lower Upper
168 100
99 64.8 48.2 72.4



#2
Dichlorodifluoromethane
Concen: 0.391 ug/l
RT: 1.166 min Scan# 13
Delta R.T. -0.000 min
Lab File: VX045367.D
Acq: 20 Mar 2025 17:32

Tgt Ion: 85 Resp: 343
Ion Ratio Lower Upper
85 100
87 42.8 17.4 52.3

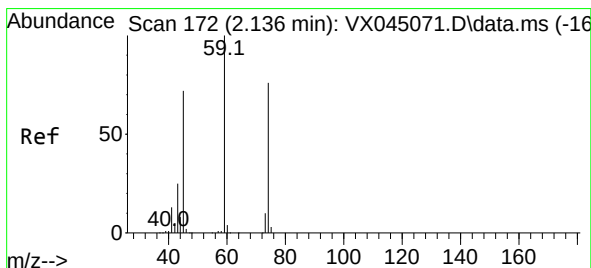
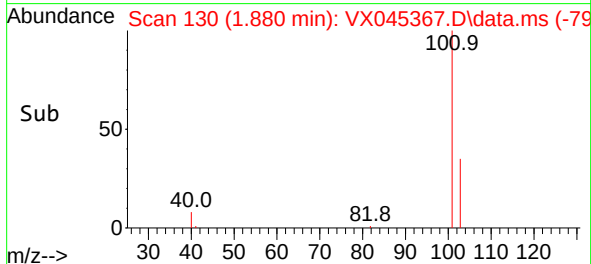
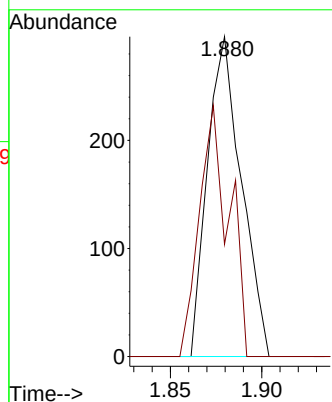
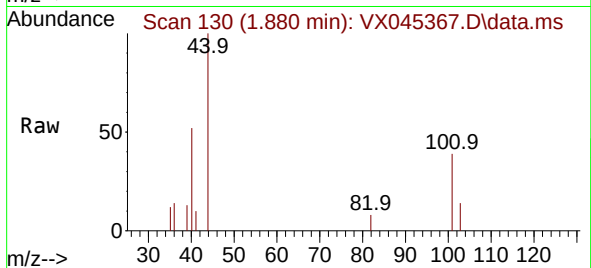




#7
Trichlorofluoromethane
Concen: 0.271 ug/l
RT: 1.880 min Scan# 11
Delta R.T. 0.012 min
Lab File: VX045367.D
Acq: 20 Mar 2025 17:32

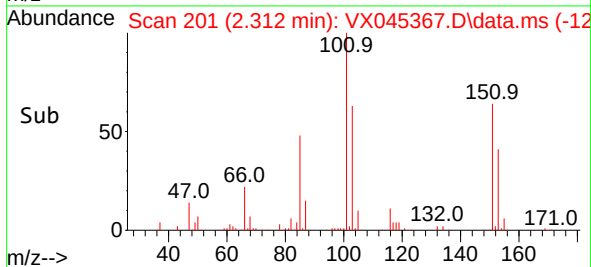
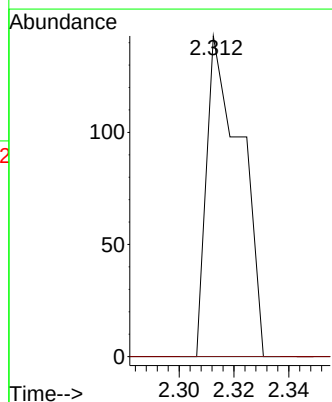
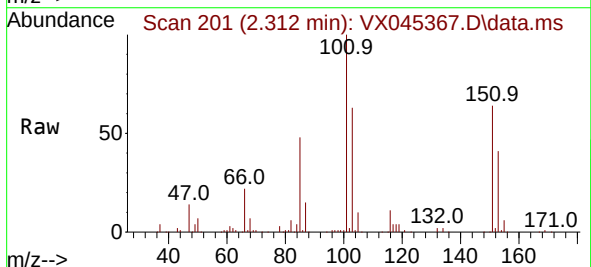
Instrument :
MSVOA_X
ClientSampleId :
RE131D2-20250313

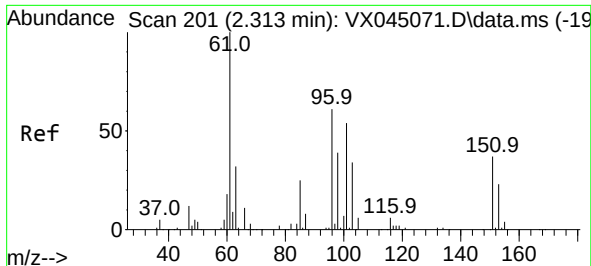
Tgt Ion:101 Resp: 382
Ion Ratio Lower Upper
101 100
103 35.1 52.1 78.1#



#8
Diethyl Ether
Concen: 0.225 ug/l
RT: 2.312 min Scan# 201
Delta R.T. 0.177 min
Lab File: VX045367.D
Acq: 20 Mar 2025 17:32

Tgt Ion: 74 Resp: 124
Ion Ratio Lower Upper
74 100
45 0.0 51.5 154.5#

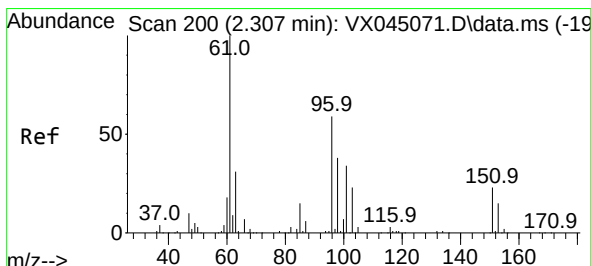
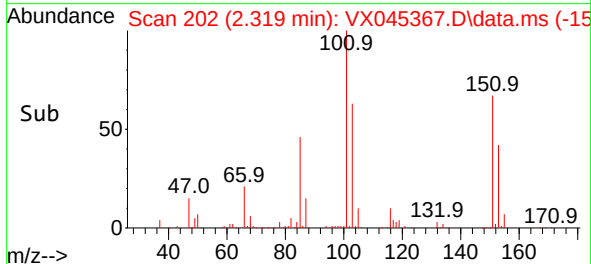
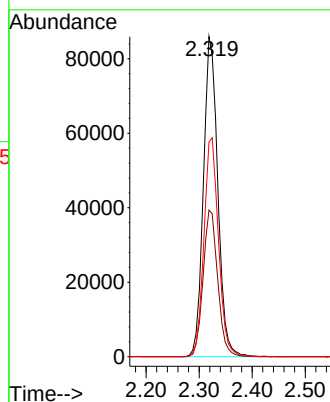
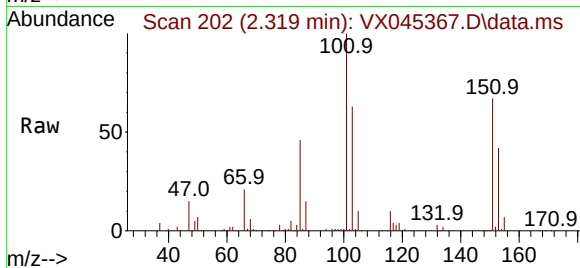




#9
 1,1,2-Trichlorotrifluoroethane
 Concen: 199.943 ug/l
 RT: 2.319 min Scan# 201
 Delta R.T. 0.006 min
 Lab File: VX045367.D
 Acq: 20 Mar 2025 17:32

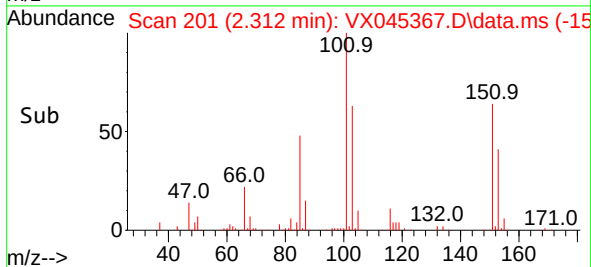
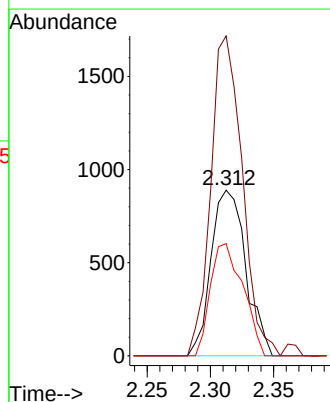
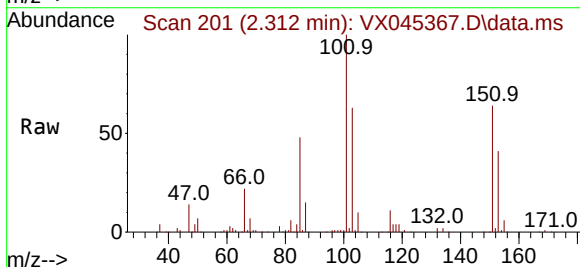
Instrument :
 MSVOA_X
 ClientSampleId :
 RE131D2-20250313

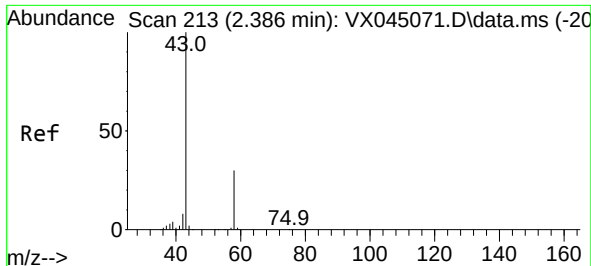
Tgt Ion:101 Resp: 162076
 Ion Ratio Lower Upper
 101 100
 85 46.4 36.2 54.4
 151 69.3 56.4 84.6



#12
 1,1-Dichloroethene
 Concen: 1.982 ug/l
 RT: 2.312 min Scan# 201
 Delta R.T. 0.006 min
 Lab File: VX045367.D
 Acq: 20 Mar 2025 17:32

Tgt Ion: 96 Resp: 1699
 Ion Ratio Lower Upper
 96 100
 61 193.1 134.6 202.0
 98 67.7 51.0 76.6

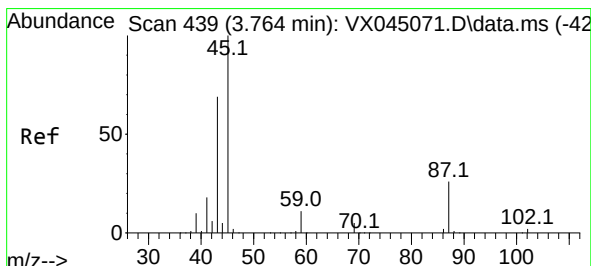
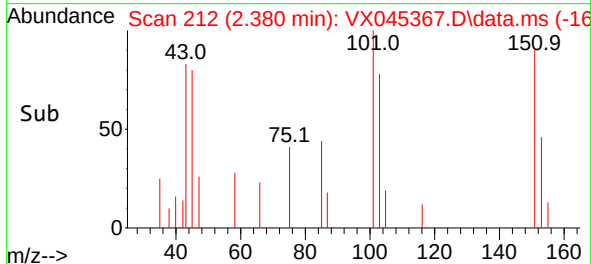
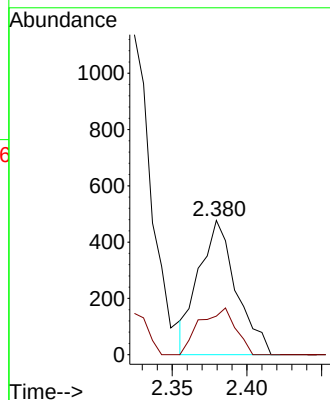
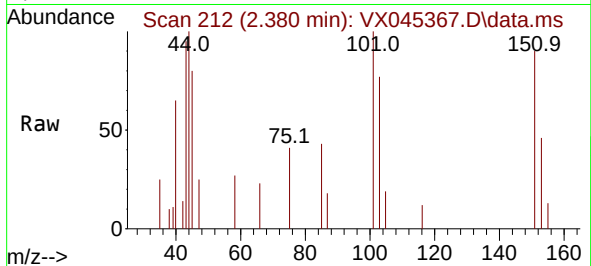




#16
Acetone
Concen: 1.616 ug/l
RT: 2.380 min Scan# 213
Delta R.T. -0.006 min
Lab File: VX045367.D
Acq: 20 Mar 2025 17:32

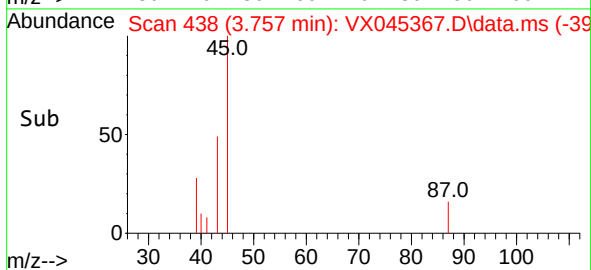
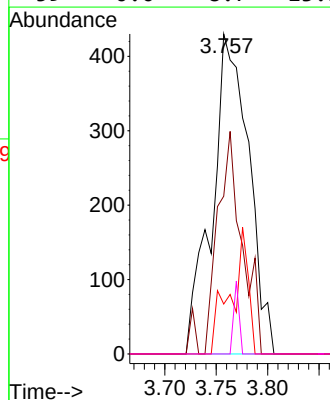
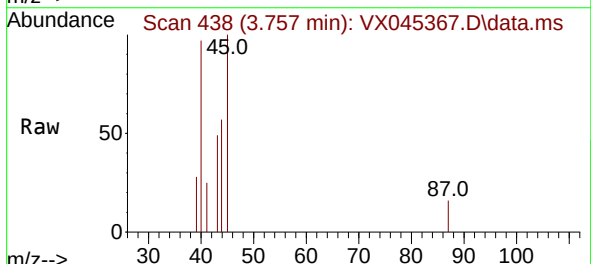
Instrument :
MSVOA_X
ClientSampleId :
RE131D2-20250313

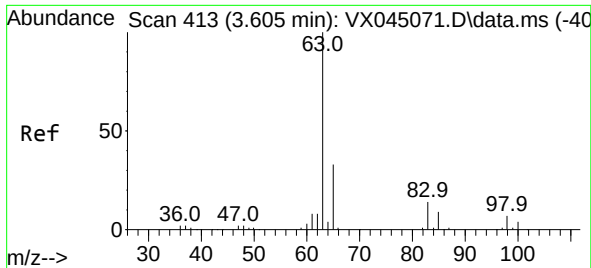
Tgt Ion: 43 Resp: 832
Ion Ratio Lower Upper
43 100
58 28.7 24.2 36.4



#22
Diisopropyl ether
Concen: 0.343 ug/l
RT: 3.757 min Scan# 438
Delta R.T. -0.006 min
Lab File: VX045367.D
Acq: 20 Mar 2025 17:32

Tgt Ion: 45 Resp: 1064
Ion Ratio Lower Upper
45 100
43 49.3 54.9 82.3#
87 15.6 21.0 31.4#
59 0.0 8.7 13.1#

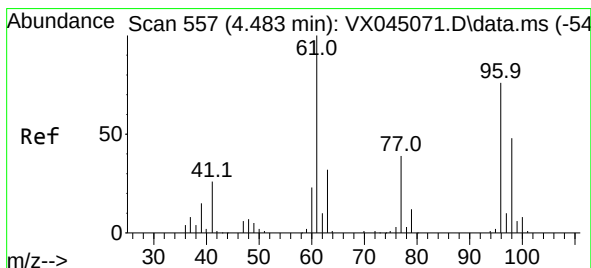
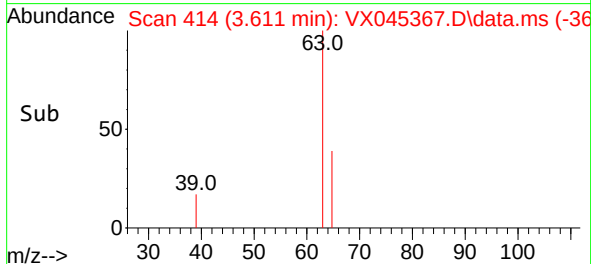
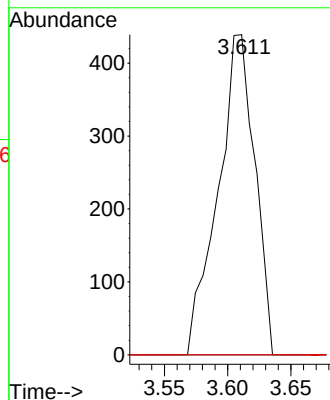
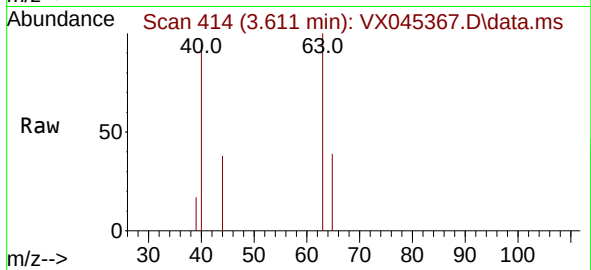




#24
 1,1-Dichloroethane
 Concen: 0.512 ug/l
 RT: 3.611 min Scan# 413
 Delta R.T. 0.006 min
 Lab File: VX045367.D
 Acq: 20 Mar 2025 17:32

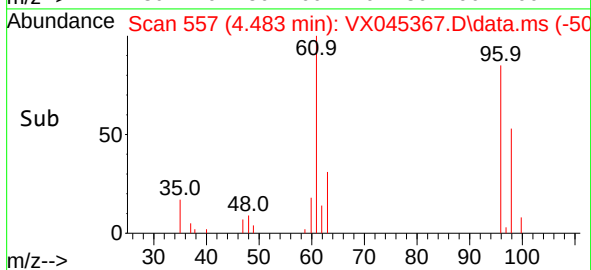
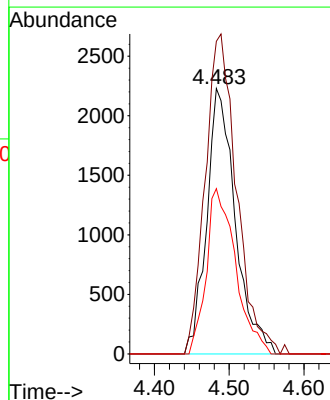
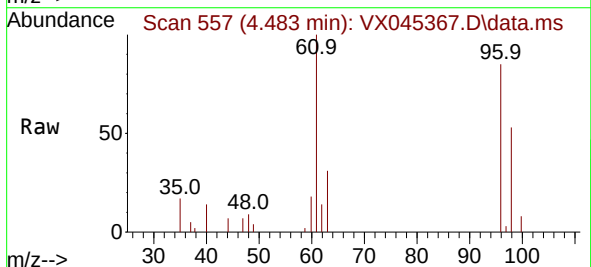
Instrument :
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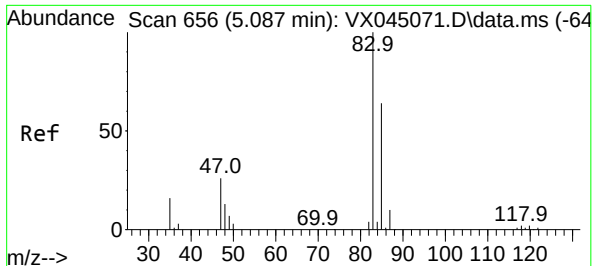
Tgt Ion: 63 Resp: 891
 Ion Ratio Lower Upper
 63 100
 98 0.0 3.4 10.2#
 100 0.0 2.1 6.5#



#27
 cis-1,2-Dichloroethene
 Concen: 5.667 ug/l
 RT: 4.483 min Scan# 557
 Delta R.T. -0.000 min
 Lab File: VX045367.D
 Acq: 20 Mar 2025 17:32

Tgt Ion: 96 Resp: 5923
 Ion Ratio Lower Upper
 96 100
 61 132.9 0.0 283.2
 98 63.7 0.0 128.0





#30

Chloroform

Concen: 0.544 ug/l

RT: 5.092 min Scan# 61

Delta R.T. 0.006 min

Lab File: VX045367.D

Acq: 20 Mar 2025 17:32

Instrument :

MSVOA_X

ClientSampleId :

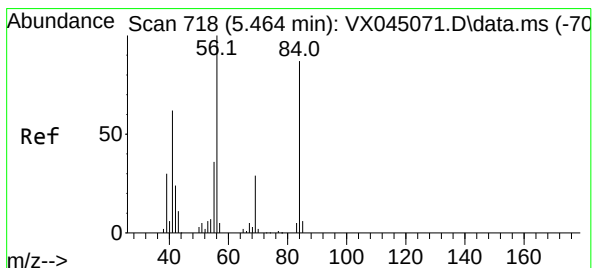
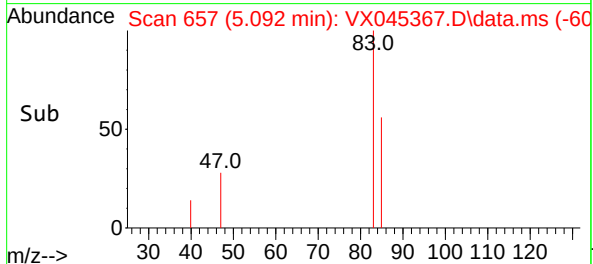
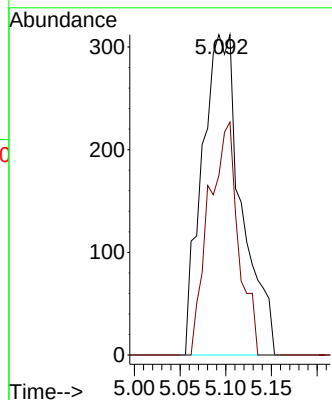
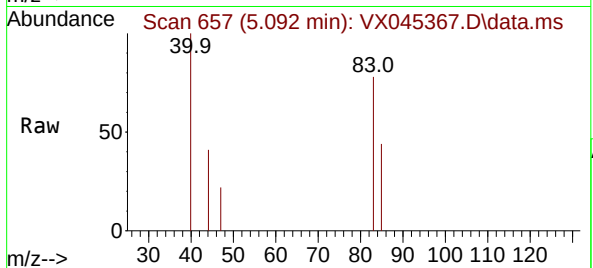
RE131D2-20250313

Tgt Ion: 83 Resp: 939

Ion Ratio Lower Upper

83 100

85 56.1 51.4 77.2



#31

Cyclohexane

Concen: 1.319 ug/l

RT: 5.544 min Scan# 731

Delta R.T. 0.079 min

Lab File: VX045367.D

Acq: 20 Mar 2025 17:32

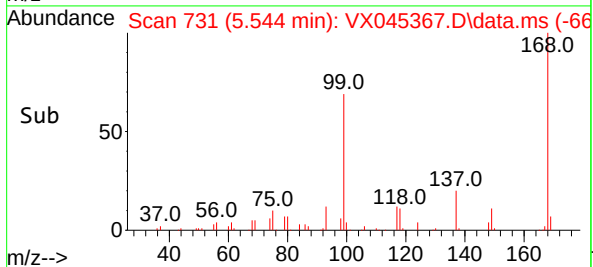
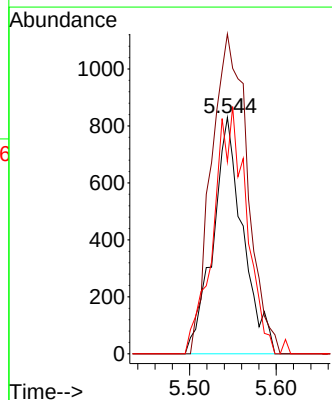
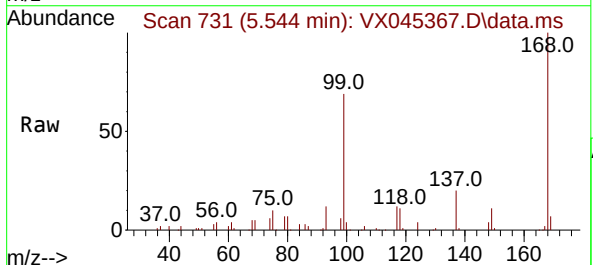
Tgt Ion: 56 Resp: 1991

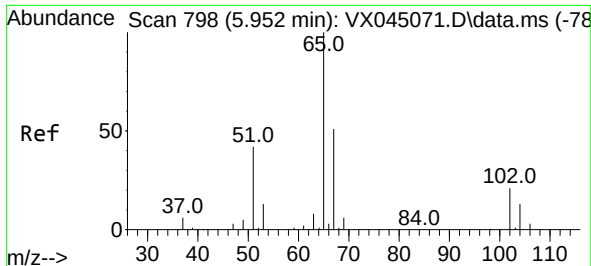
Ion Ratio Lower Upper

56 100

69 135.3 23.4 35.2#

84 81.2 69.4 104.2





#33

1,2-Dichloroethane-d4

Concen: 57.765 ug/l

RT: 5.946 min Scan# 798

Delta R.T. -0.006 min

Lab File: VX045367.D

Acq: 20 Mar 2025 17:32

Instrument :

MSVOA_X

ClientSampleId :

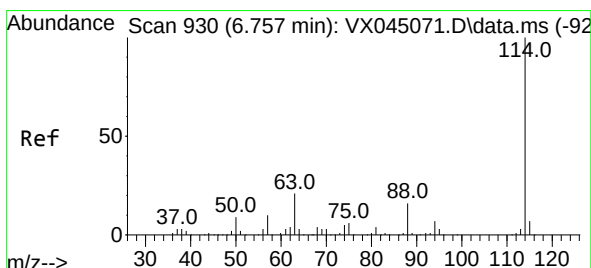
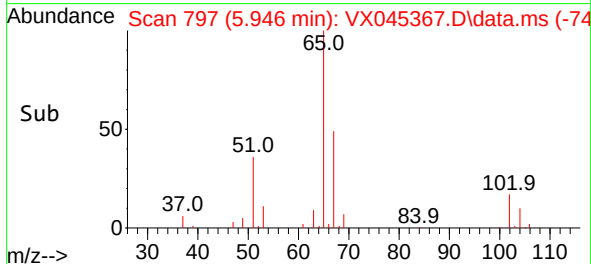
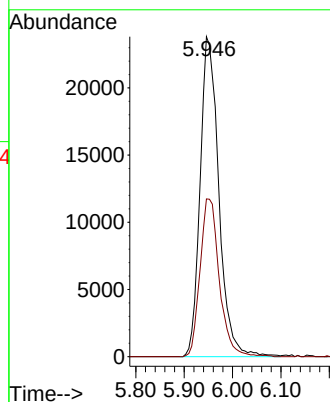
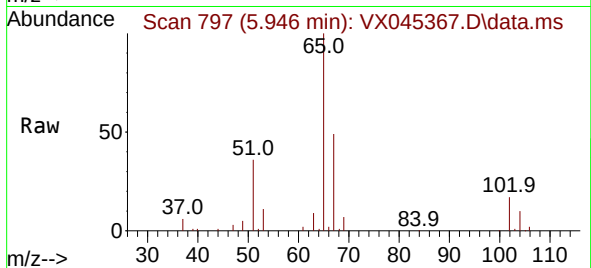
RE131D2-20250313

Tgt Ion: 65 Resp: 64084

Ion Ratio Lower Upper

65 100

67 50.8 0.0 106.2



#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 6.757 min Scan# 930

Delta R.T. -0.000 min

Lab File: VX045367.D

Acq: 20 Mar 2025 17:32

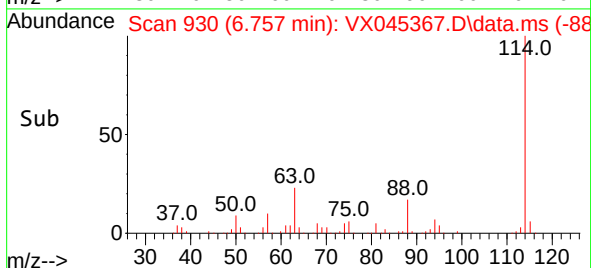
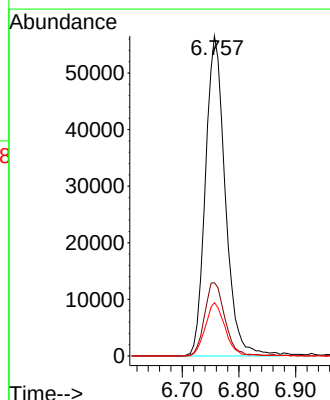
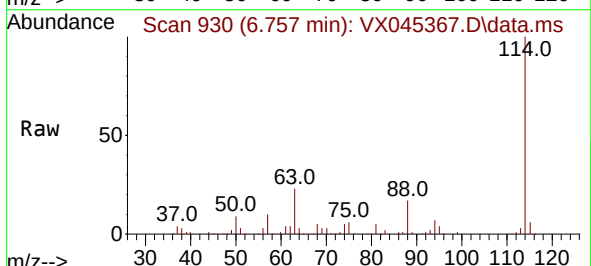
Tgt Ion: 114 Resp: 137359

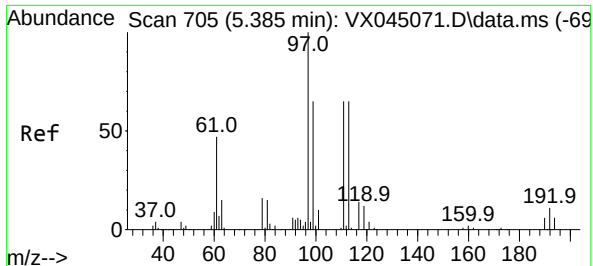
Ion Ratio Lower Upper

114 100

63 22.9 0.0 41.8

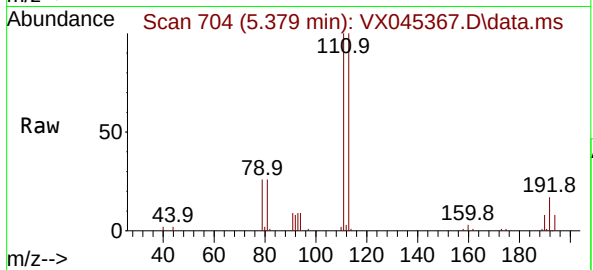
88 16.6 0.0 32.8



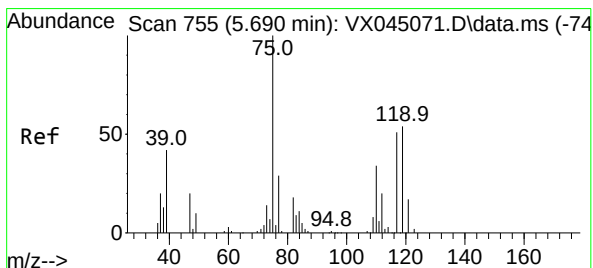
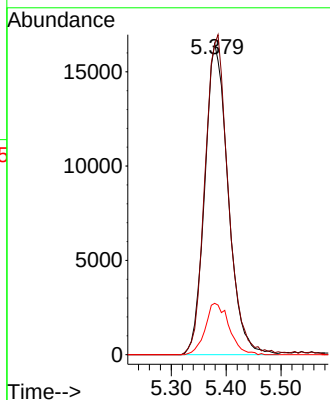
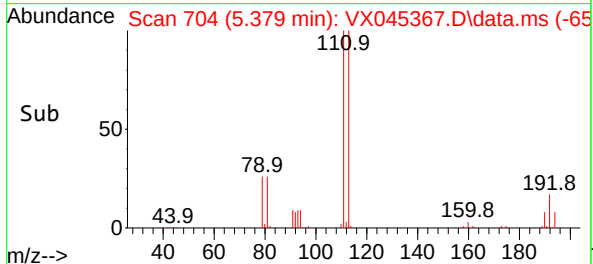


#35
Dibromofluoromethane
Concen: 53.169 ug/l
RT: 5.379 min Scan# 705
Delta R.T. -0.006 min
Lab File: VX045367.D
Acq: 20 Mar 2025 17:32

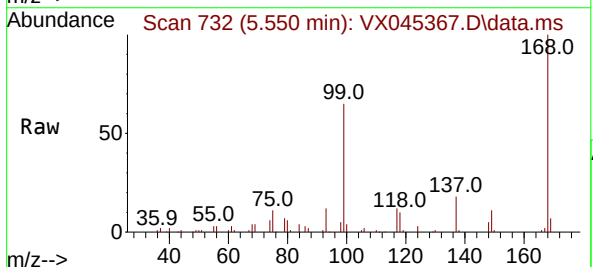
Instrument :
MSVOA_X
ClientSampleId :
RE131D2-20250313



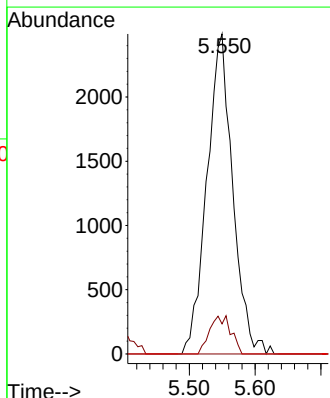
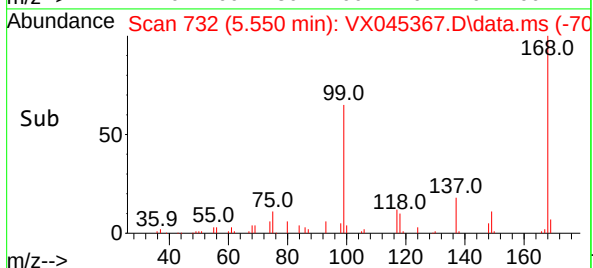
Tgt Ion:113 Resp: 48835
Ion Ratio Lower Upper
113 100
111 102.6 81.8 122.6
192 16.9 14.3 21.5

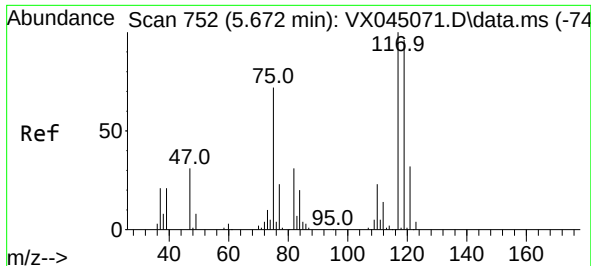


#36
1,1-Dichloropropene
Concen: 5.399 ug/l
RT: 5.550 min Scan# 732
Delta R.T. -0.140 min
Lab File: VX045367.D
Acq: 20 Mar 2025 17:32



Tgt Ion: 75 Resp: 6801
Ion Ratio Lower Upper
75 100
110 9.8 16.9 50.6#
77 0.0 24.5 36.7#

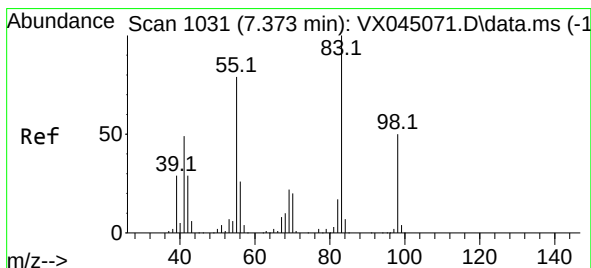
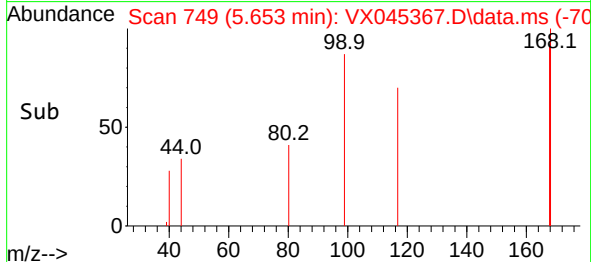
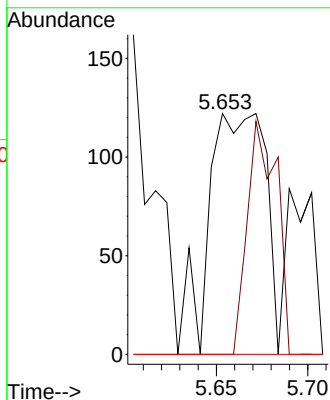
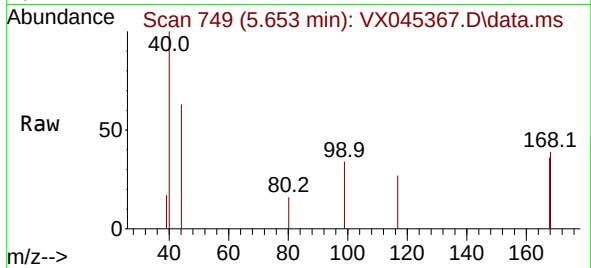




#38
Carbon Tetrachloride
Concen: 0.208 ug/l
RT: 5.653 min Scan# 74
Delta R.T. -0.018 min
Lab File: VX045367.D
Acq: 20 Mar 2025 17:32

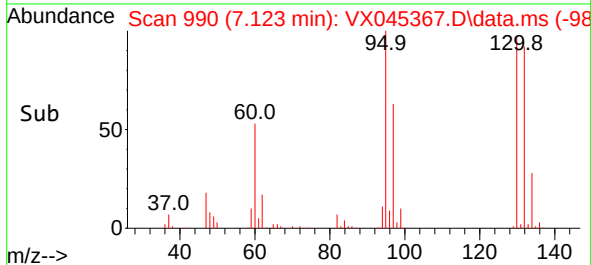
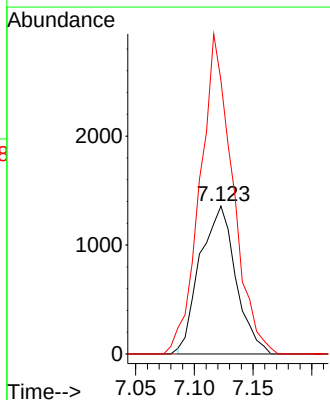
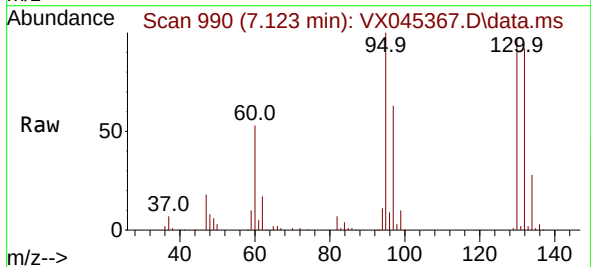
Instrument :
MSVOA_X
ClientSampleId :
RE131D2-20250313

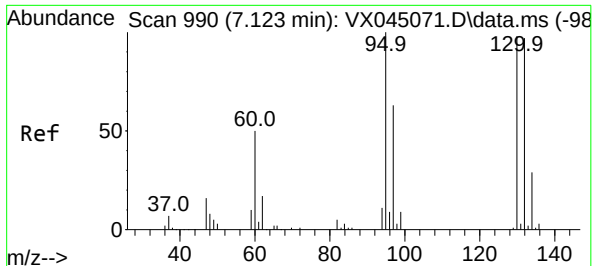
Tgt Ion:117 Resp: 266
Ion Ratio Lower Upper
117 100
119 0.0 76.7 115.1#
121 0.0 25.5 38.3#



#39
Methylcyclohexane
Concen: 1.908 ug/l
RT: 7.123 min Scan# 990
Delta R.T. -0.250 min
Lab File: VX045367.D
Acq: 20 Mar 2025 17:32

Tgt Ion: 83 Resp: 2879
Ion Ratio Lower Upper
83 100
55 0.0 63.0 94.4#
98 185.1 39.7 59.5#

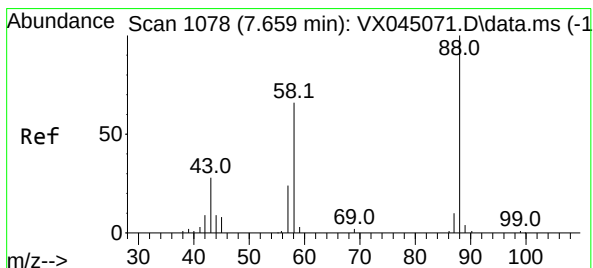
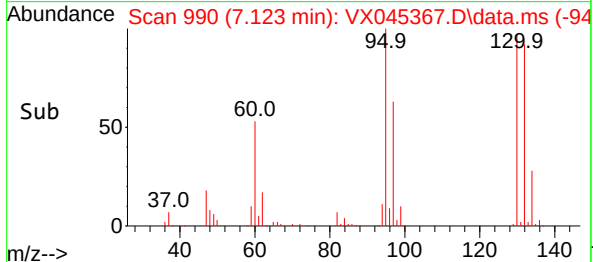
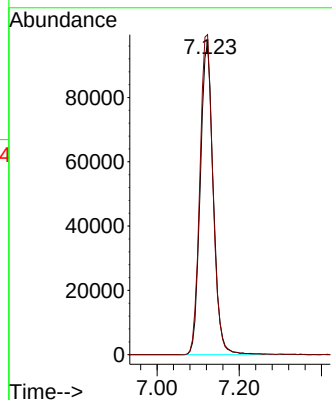
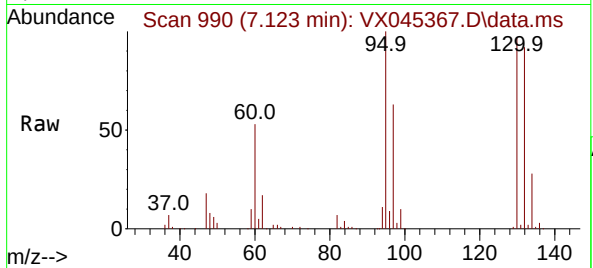




#44
Trichloroethene
Concen: 228.147 ug/l
RT: 7.123 min Scan# 94
Delta R.T. -0.000 min
Lab File: VX045367.D
Acq: 20 Mar 2025 17:32

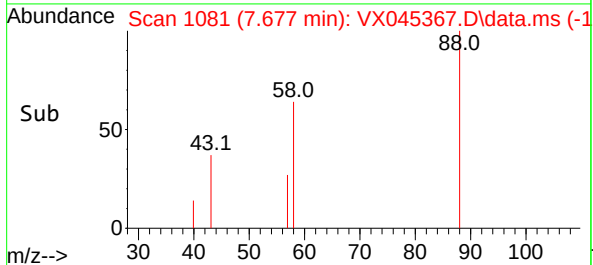
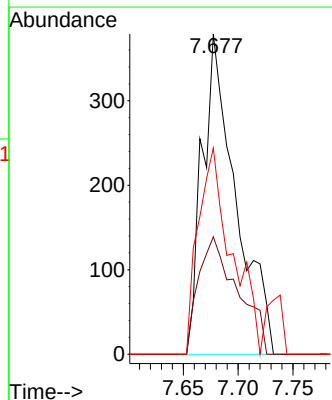
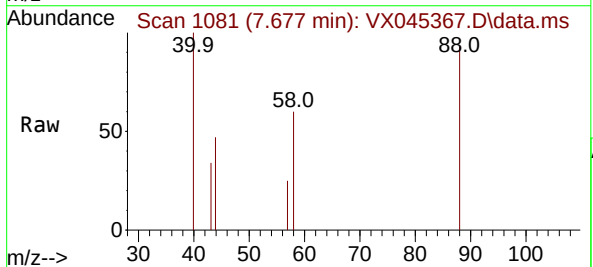
Instrument :
MSVOA_X
ClientSampleId :
RE131D2-20250313

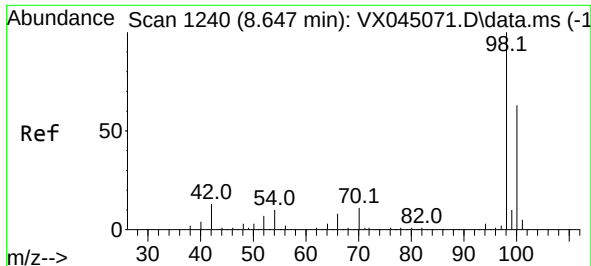
Tgt Ion:130 Resp: 213081
Ion Ratio Lower Upper
130 100
95 103.1 0.0 205.0



#49
1,4-Dioxane
Concen: 31.694 ug/l
RT: 7.677 min Scan# 1081
Delta R.T. 0.018 min
Lab File: VX045367.D
Acq: 20 Mar 2025 17:32

Tgt Ion: 88 Resp: 805
Ion Ratio Lower Upper
88 100
43 43.0 28.7 43.1
58 64.0 55.8 83.8

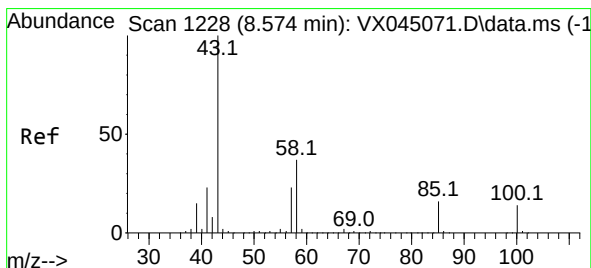
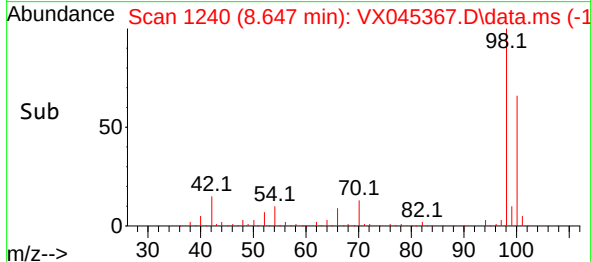
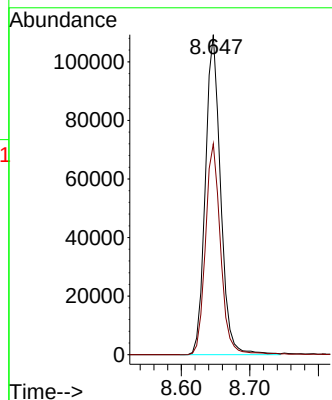
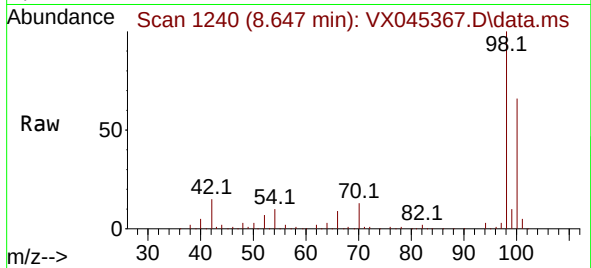




#50
Toluene-d8
Concen: 50.838 ug/l
RT: 8.647 min Scan# 1240
Delta R.T. -0.000 min
Lab File: VX045367.D
Acq: 20 Mar 2025 17:32

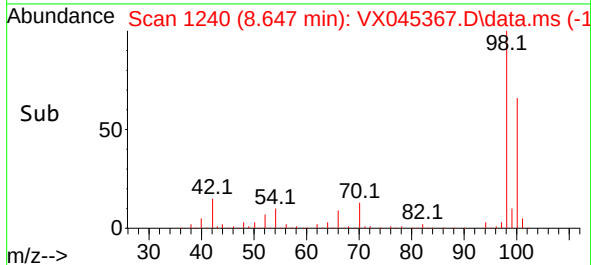
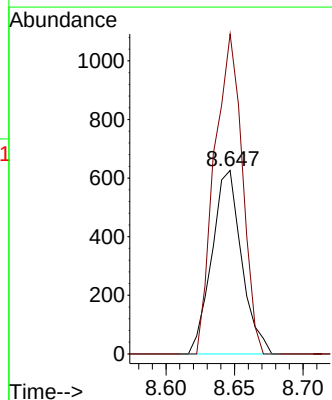
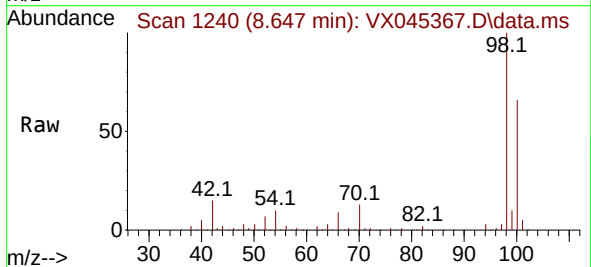
Instrument :
MSVOA_X
ClientSampleId :
RE131D2-20250313

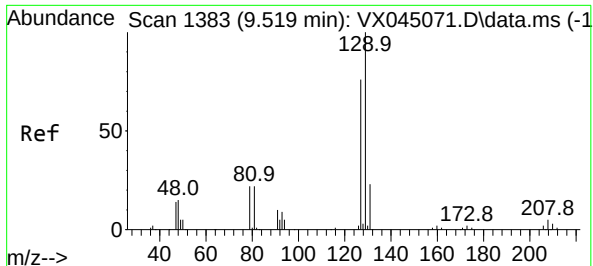
Tgt Ion: 98 Resp: 169280
Ion Ratio Lower Upper
98 100
100 65.5 52.0 78.0



#51
4-Methyl-2-Pentanone
Concen: 0.587 ug/l
RT: 8.647 min Scan# 1240
Delta R.T. 0.073 min
Lab File: VX045367.D
Acq: 20 Mar 2025 17:32

Tgt Ion: 43 Resp: 946
Ion Ratio Lower Upper
43 100
58 162.5 29.2 43.8#





#60

Dibromochloromethane

Concen: 17.927 ug/l

RT: 9.269 min Scan# 11

Delta R.T. -0.250 min

Lab File: VX045367.D

Acq: 20 Mar 2025 17:32

Instrument :

MSVOA_X

ClientSampleId :

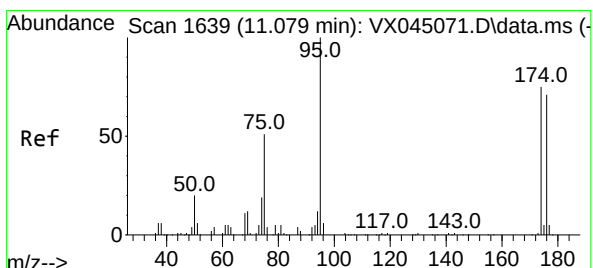
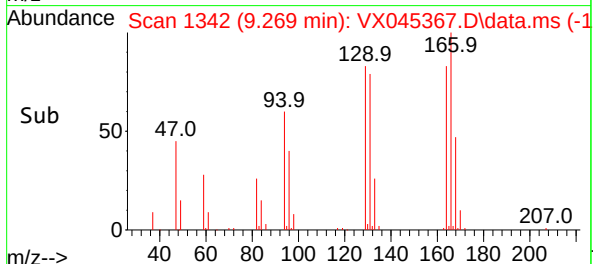
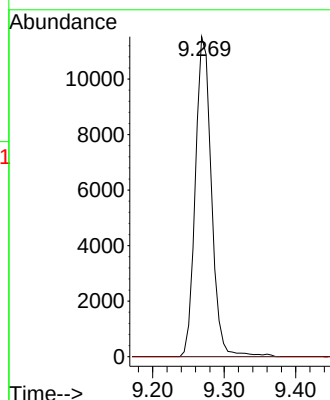
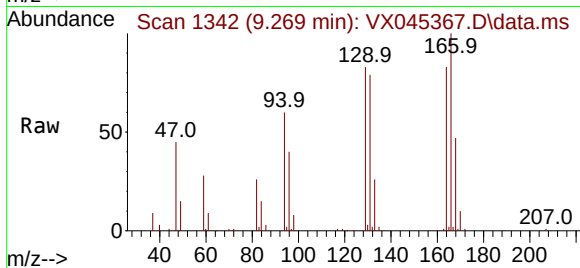
RE131D2-20250313

Tgt Ion:129 Resp: 18008

Ion Ratio Lower Upper

129 100

127 0.0 38.5 115.5#



#62

4-Bromofluorobenzene

Concen: 52.685 ug/l

RT: 11.079 min Scan# 1639

Delta R.T. -0.000 min

Lab File: VX045367.D

Acq: 20 Mar 2025 17:32

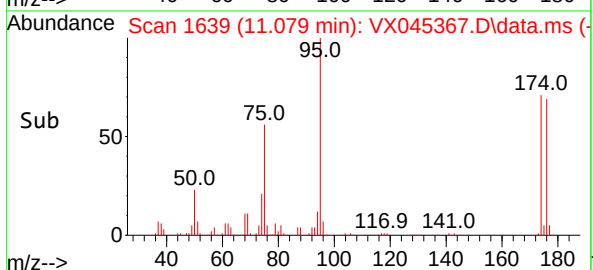
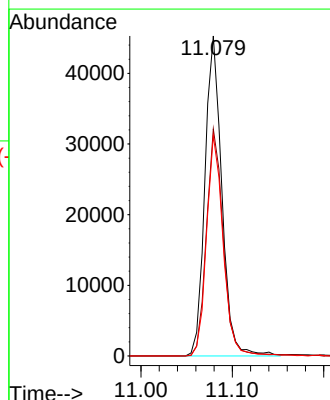
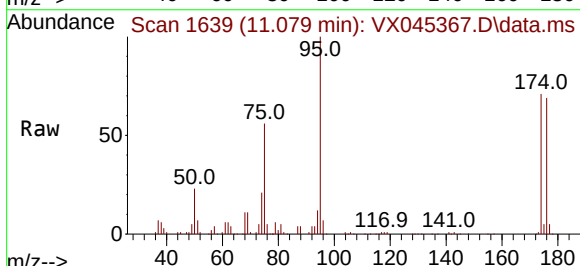
Tgt Ion: 95 Resp: 58133

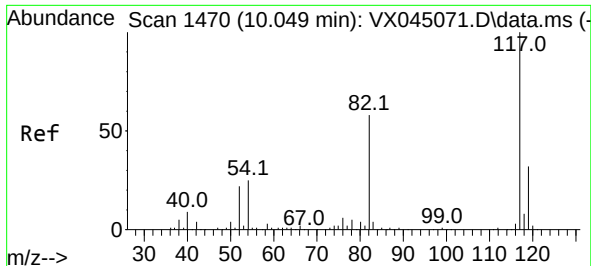
Ion Ratio Lower Upper

95 100

174 71.2 0.0 148.2

176 67.7 0.0 141.4

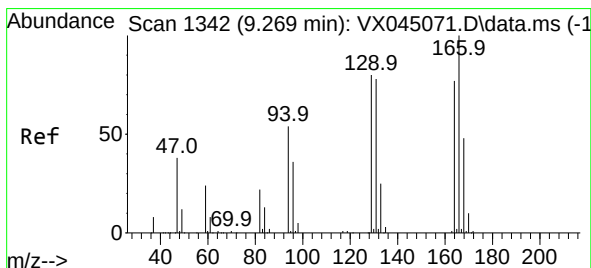
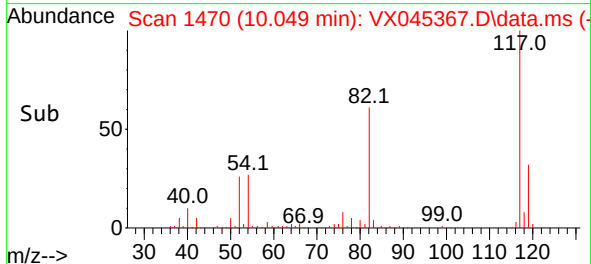
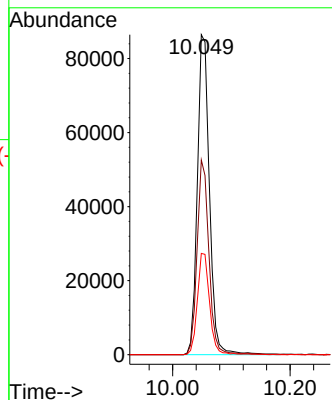
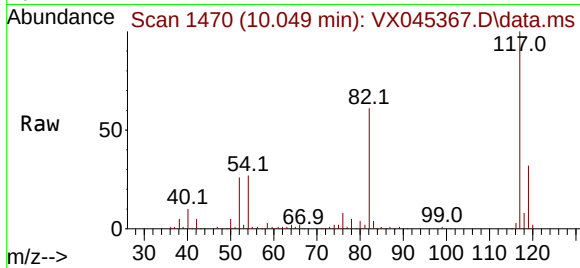




#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 10.049 min Scan# 1470
Delta R.T. -0.000 min
Lab File: VX045367.D
Acq: 20 Mar 2025 17:32

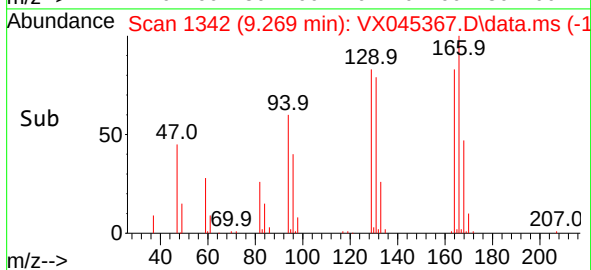
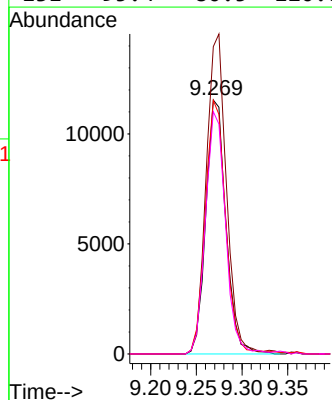
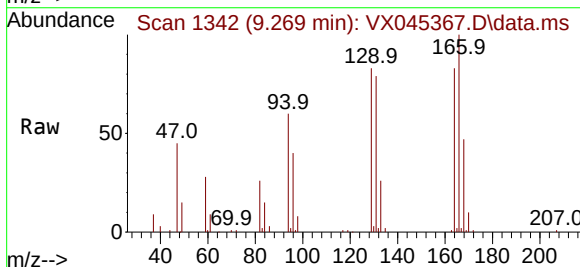
Instrument :
MSVOA_X
ClientSampleId :
RE131D2-20250313

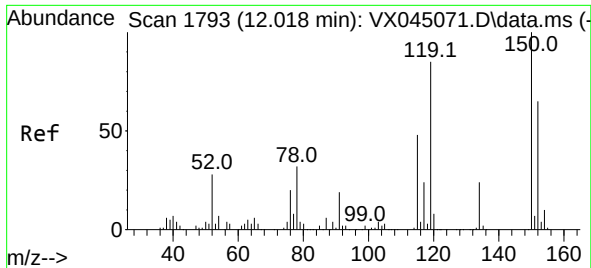
Tgt Ion:117 Resp: 123326
Ion Ratio Lower Upper
117 100
82 60.8 46.3 69.5
119 31.7 25.7 38.5



#64
Tetrachloroethene
Concen: 22.205 ug/l
RT: 9.269 min Scan# 1342
Delta R.T. -0.000 min
Lab File: VX045367.D
Acq: 20 Mar 2025 17:32

Tgt Ion:164 Resp: 17539
Ion Ratio Lower Upper
164 100
166 121.0 103.6 155.4
129 99.9 82.7 124.1
131 95.4 80.5 120.7

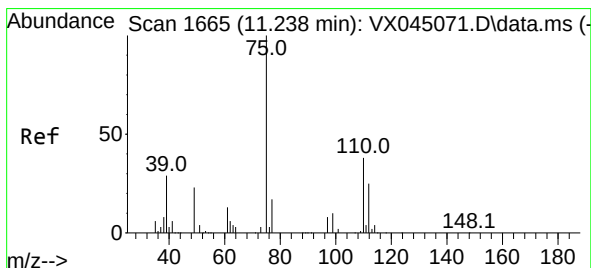
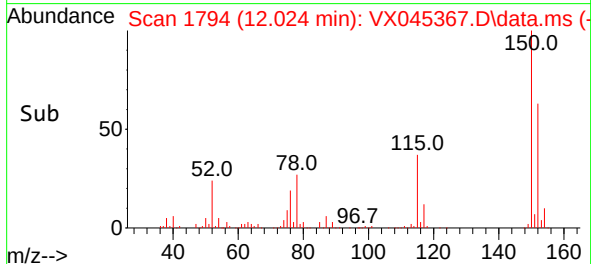
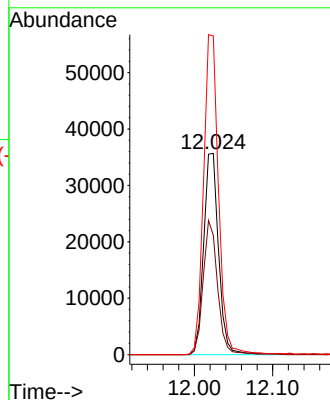
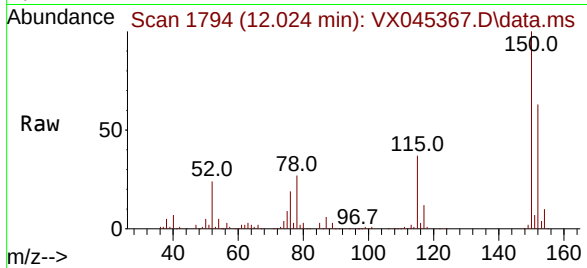




#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 12.024 min Scan# 11
Delta R.T. 0.006 min
Lab File: VX045367.D
Acq: 20 Mar 2025 17:32

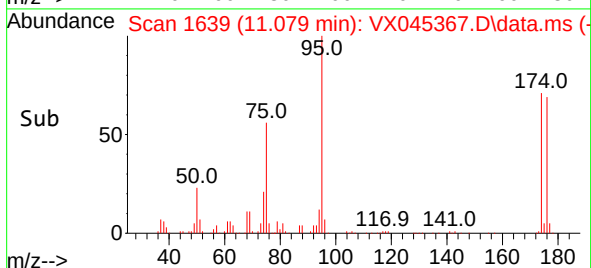
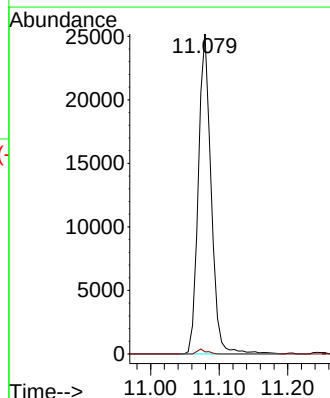
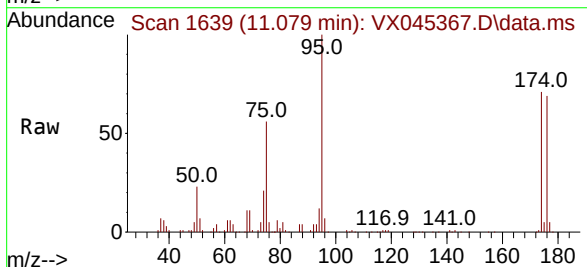
Instrument :
MSVOA_X
ClientSampleId :
RE131D2-20250313

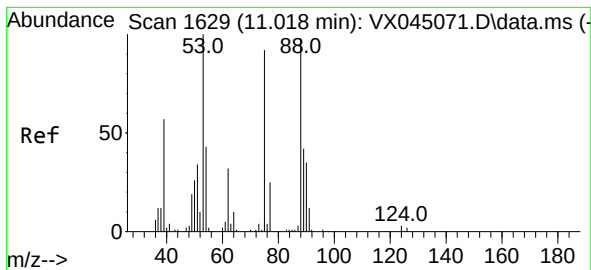
Tgt Ion:152 Resp: 47211
Ion Ratio Lower Upper
152 100
115 64.4 44.2 132.6
150 159.0 0.0 349.0



#76
1,2,3-Trichloropropane
Concen: 29.833 ug/l
RT: 11.079 min Scan# 1639
Delta R.T. -0.159 min
Lab File: VX045367.D
Acq: 20 Mar 2025 17:32

Tgt Ion: 75 Resp: 32782
Ion Ratio Lower Upper
75 100
77 1.1 20.7 62.1#





#81
 trans-1,4-Dichloro-2-butene
 Concen: 102.095 ug/l
 RT: 11.079 min Scan# 1
 Delta R.T. 0.061 min
 Lab File: VX045367.D
 Acq: 20 Mar 2025 17:32

Instrument :
 MSVOA_X
 ClientSampleId :
 RE131D2-20250313

Tgt Ion: 75 Resp: 32782
 Ion Ratio Lower Upper
 75 100
 53 0.0 88.5 132.7#
 89 0.0 36.2 54.4#

