

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX121824\
 Data File : VX044388.D
 Acq On : 18 Dec 2024 17:08
 Operator : JC/MD
 Sample : P5281-01
 Misc : 5.0mL/MSVOA_X/WATER
 ALS Vial : 15 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :
 RE114D1-20241212

Quant Time: Dec 19 00:49:39 2024
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X121124W.M
 Quant Title : SW846 8260
 QLast Update : Thu Dec 12 04:28:14 2024
 Response via : Initial Calibration

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

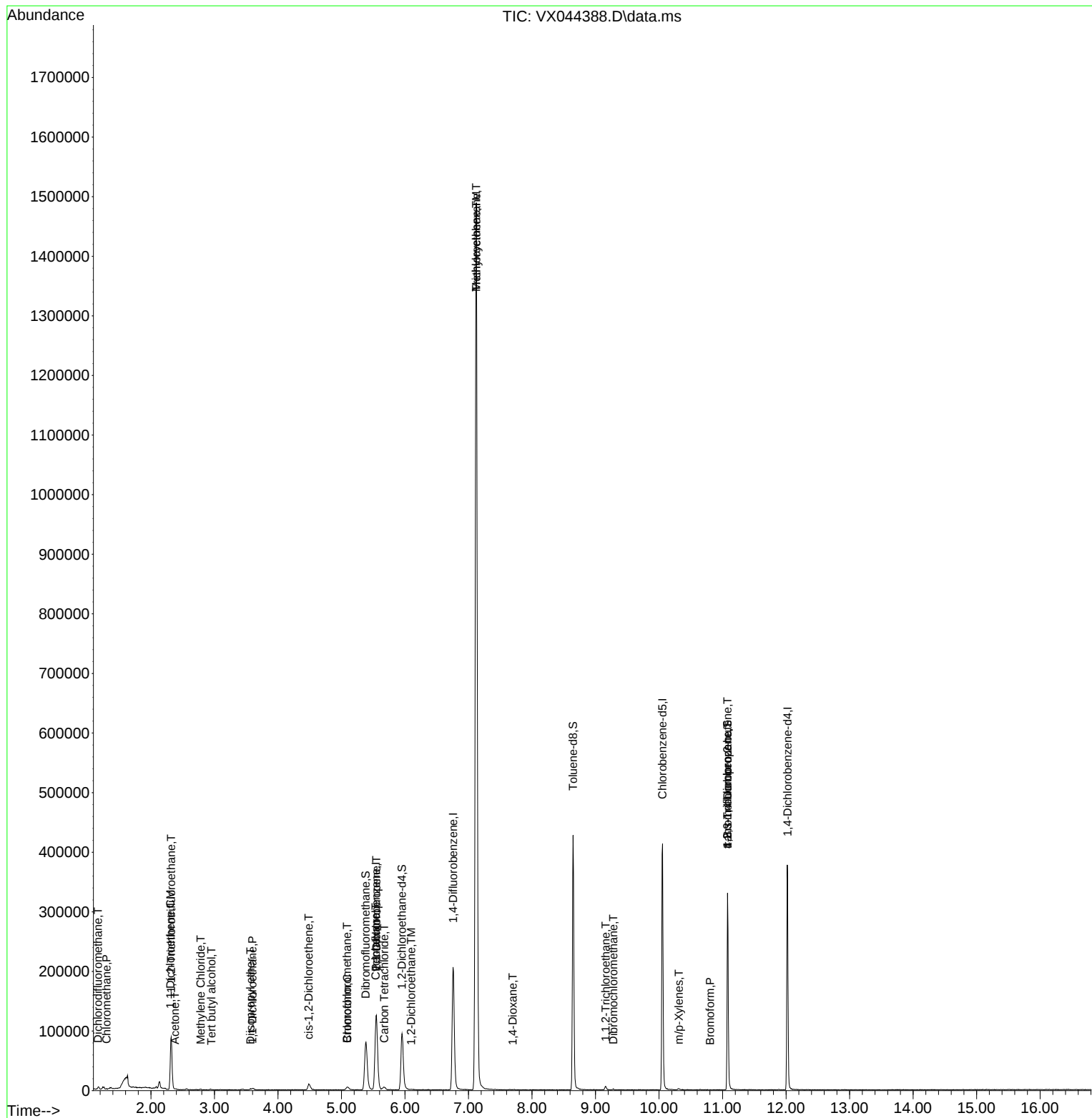
Internal Standards						
1) Pentafluorobenzene	5.544	168	115604	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	6.757	114	209270	50.000	ug/l	0.00
63) Chlorobenzene-d5	10.055	117	182535	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.024	152	75803	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	5.952	65	91590	45.187	ug/l	0.00
Spiked Amount 50.000	Range 74 - 125		Recovery =	90.380%		
35) Dibromofluoromethane	5.379	113	69318	47.826	ug/l	0.00
Spiked Amount 50.000	Range 75 - 124		Recovery =	95.660%		
50) Toluene-d8	8.647	98	250157	51.159	ug/l	0.00
Spiked Amount 50.000	Range 86 - 113		Recovery =	102.320%		
62) 4-Bromofluorobenzene	11.079	95	83299	48.752	ug/l	0.00
Spiked Amount 50.000	Range 77 - 121		Recovery =	97.500%		
Target Compounds					Qvalue	
2) Dichlorodifluoromethane	1.166	85	1801	1.008	ug/l	86
3) Chloromethane	1.301	50	424	0.248	ug/l #	71
9) 1,1,2-Trichlorotrifluo...	2.319	101	30675	21.744	ug/l	98
11) Tert butyl alcohol	2.953	59	216	0.756	ug/l #	71
12) 1,1-Dichloroethene	2.306	96	4525	3.492	ug/l	97
16) Acetone	2.380	43	970	1.174	ug/l #	70
20) Methylene Chloride	2.782	84	447	0.288	ug/l #	78
22) Diisopropyl ether	3.568	45	1131	0.233	ug/l #	8
24) 1,1-Dichloroethane	3.599	63	2633	0.972	ug/l #	92
27) cis-1,2-Dichloroethene	4.483	96	6250	3.573	ug/l	87
28) Bromochloromethane	5.086	49	331	0.249	ug/l #	13
30) Chloroform	5.093	83	5719	1.879	ug/l	89
31) Cyclohexane	5.538	56	3057	1.397	ug/l #	58
36) 1,1-Dichloropropene	5.550	75	10416	5.560	ug/l #	50
38) Carbon Tetrachloride	5.672	117	3650	1.810	ug/l #	84
39) Methylcyclohexane	7.123	83	7250	3.237	ug/l #	1
42) 1,2-Dichloroethane	6.098	62	661	0.282	ug/l #	78
44) Trichloroethene	7.123	130	554580	390.956	ug/l	99
49) 1,4-Dioxane	7.696	88	429	14.726	ug/l #	40
55) 1,1,2-Trichloroethane	9.159	97	2042	1.439	ug/l #	79
60) Dibromochloromethane	9.281	129	181	1.354	ug/l #	11
68) m/p-Xylenes	10.311	106	846	0.341	ug/l	80
71) Bromoform	10.805	173	22	1.257	ug/l #	29
76) 1,2,3-Trichloropropane	11.079	75	45357	26.799	ug/l #	36
81) trans-1,4-Dichloro-2-b...	11.079	75	45357	73.803	ug/l #	4

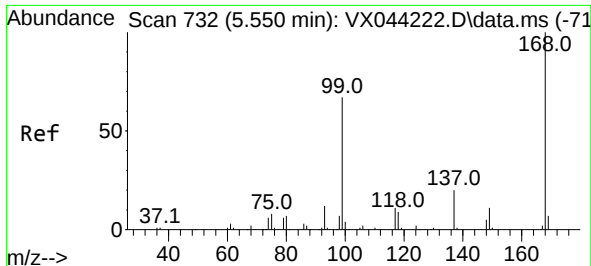
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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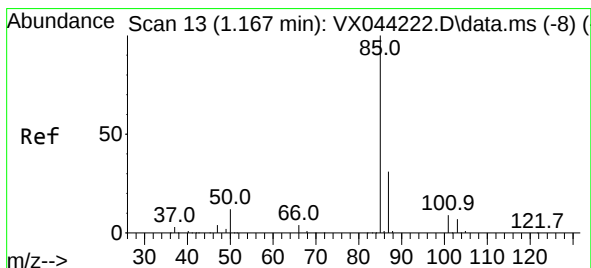
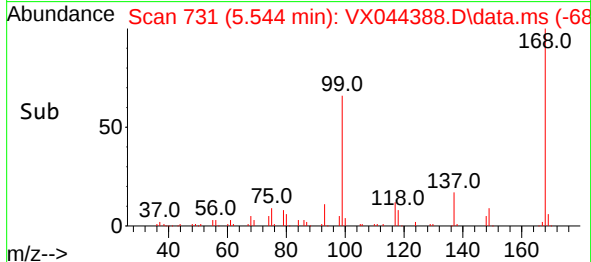
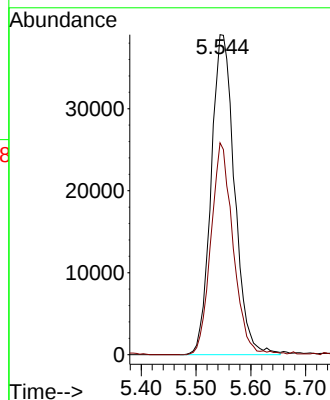
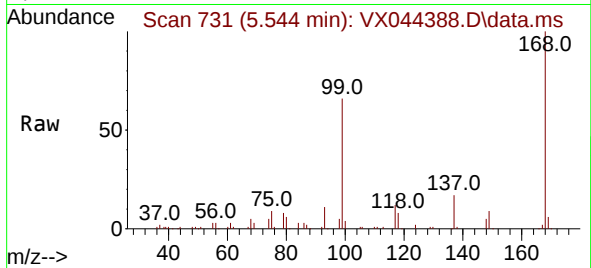




#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 5.544 min Scan# 71
Delta R.T. -0.006 min
Lab File: VX044388.D
Acq: 18 Dec 2024 17:08

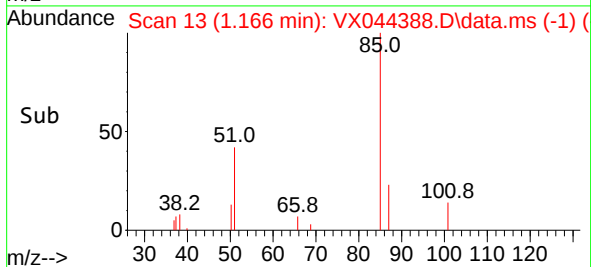
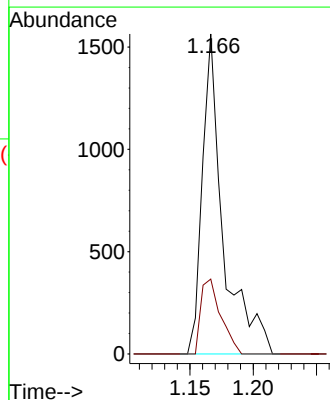
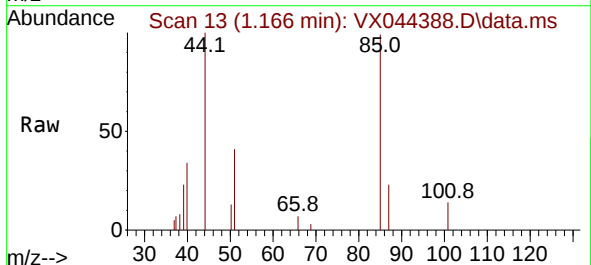
Instrument :
MSVOA_X
ClientSampleId :
RE114D1-20241212

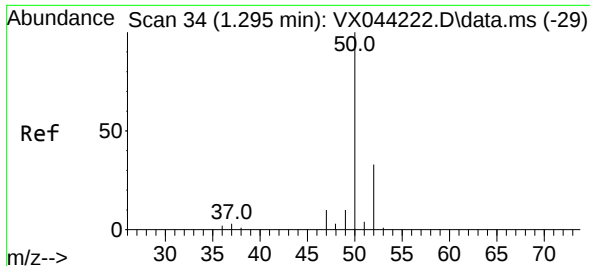
Tgt Ion:168 Resp: 115604
Ion Ratio Lower Upper
168 100
99 66.2 53.4 80.0



#2
Dichlorodifluoromethane
Concen: 1.008 ug/l
RT: 1.166 min Scan# 13
Delta R.T. -0.000 min
Lab File: VX044388.D
Acq: 18 Dec 2024 17:08

Tgt Ion: 85 Resp: 1801
Ion Ratio Lower Upper
85 100
87 23.4 15.4 46.4

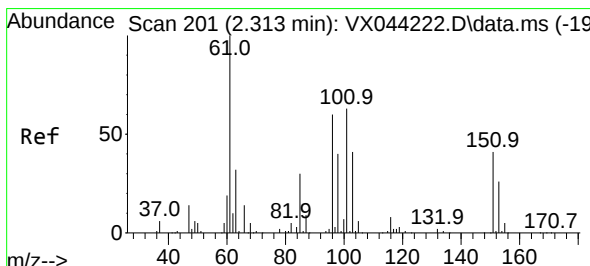
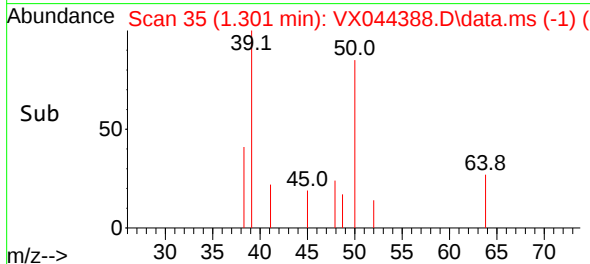
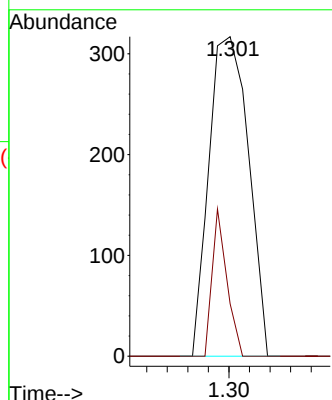
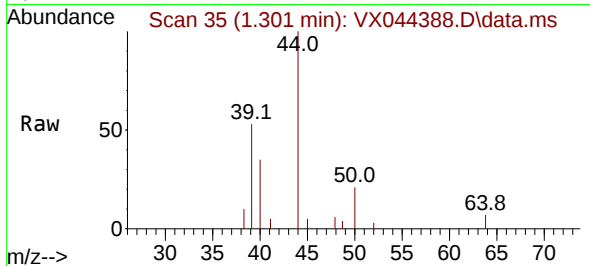




#3
Chloromethane
Concen: 0.248 ug/l
RT: 1.301 min Scan# 31
Delta R.T. 0.006 min
Lab File: VX044388.D
Acq: 18 Dec 2024 17:08

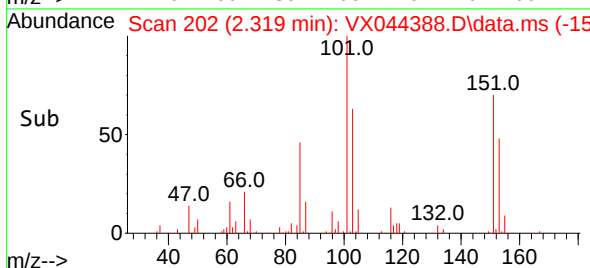
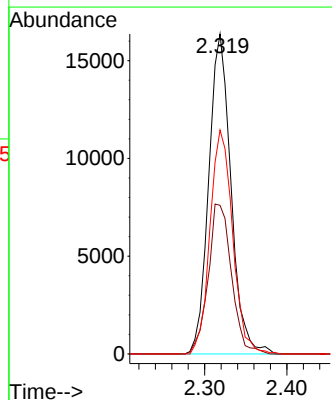
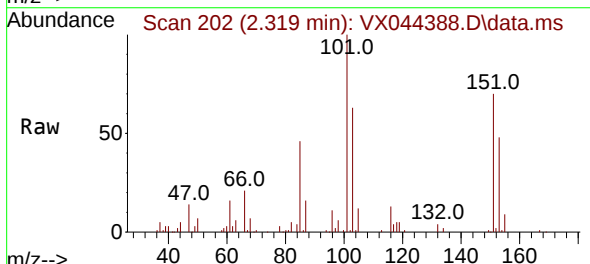
Instrument :
MSVOA_X
ClientSampleId :
RE114D1-20241212

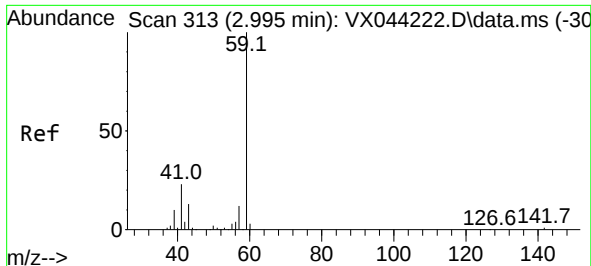
Tgt Ion: 50 Resp: 424
Ion Ratio Lower Upper
50 100
52 16.4 26.5 39.7#



#9
1,1,2-Trichlorotrifluoroethane
Concen: 21.744 ug/l
RT: 2.319 min Scan# 202
Delta R.T. 0.006 min
Lab File: VX044388.D
Acq: 18 Dec 2024 17:08

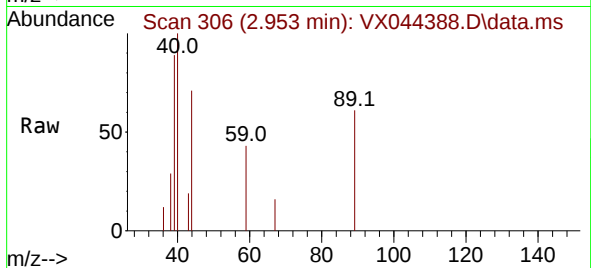
Tgt Ion: 101 Resp: 30675
Ion Ratio Lower Upper
101 100
85 49.3 38.5 57.7
151 71.6 55.8 83.6



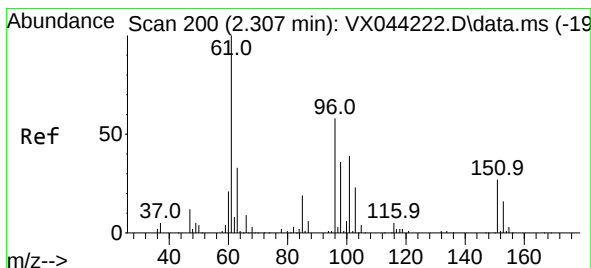
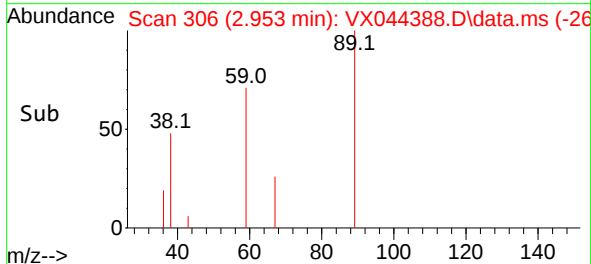
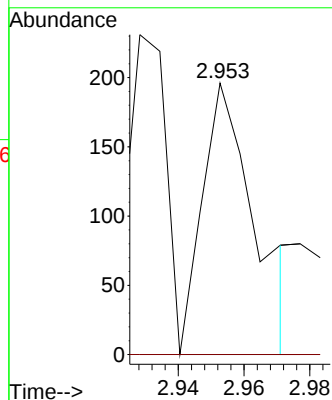


#11
Tert butyl alcohol
Concen: 0.756 ug/l
RT: 2.953 min Scan# 306
Delta R.T. -0.043 min
Lab File: VX044388.D
Acq: 18 Dec 2024 17:08

Instrument :
MSVOA_X
ClientSampleId :
RE114D1-20241212

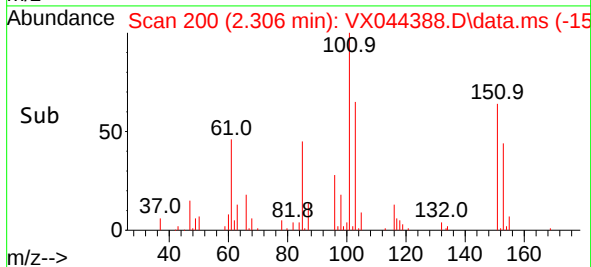
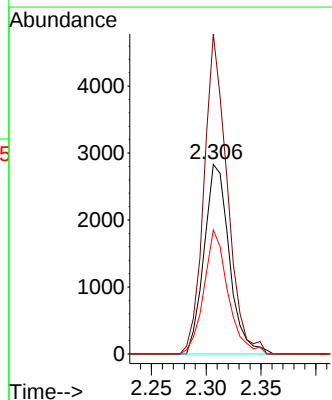
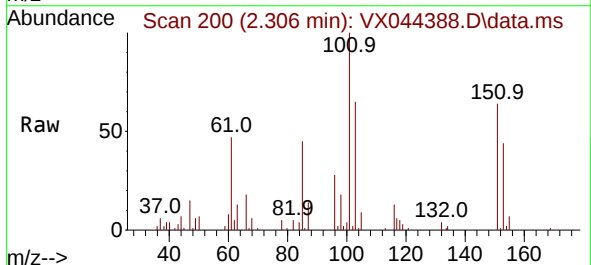


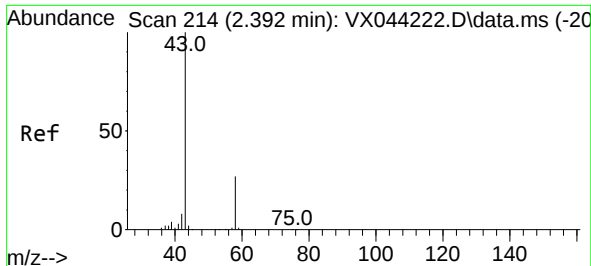
Tgt Ion: 59 Resp: 216
Ion Ratio Lower Upper
59 100
57 0.0 8.8 13.2#



#12
1,1-Dichloroethene
Concen: 3.492 ug/l
RT: 2.306 min Scan# 200
Delta R.T. -0.000 min
Lab File: VX044388.D
Acq: 18 Dec 2024 17:08

Tgt Ion: 96 Resp: 4525
Ion Ratio Lower Upper
96 100
61 168.7 138.0 207.0
98 65.4 50.0 75.0

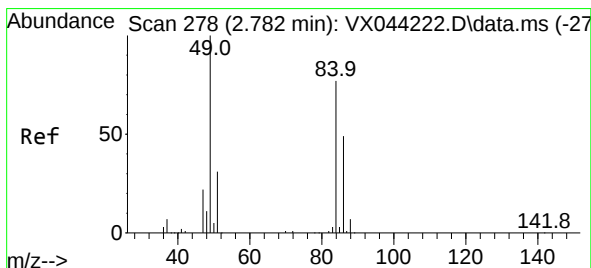
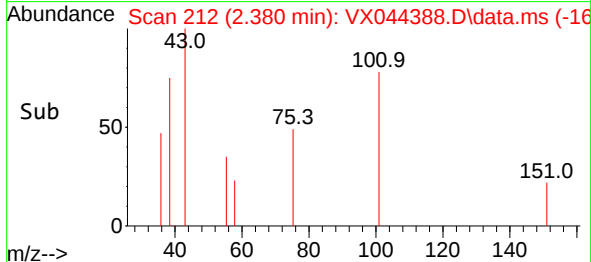
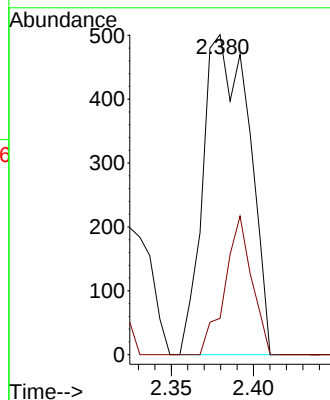
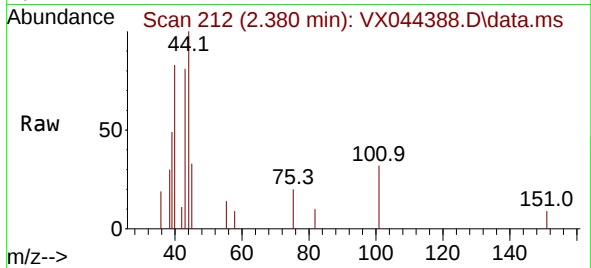




#16
Acetone
Concen: 1.174 ug/l
RT: 2.380 min Scan# 214
Delta R.T. -0.012 min
Lab File: VX044388.D
Acq: 18 Dec 2024 17:08

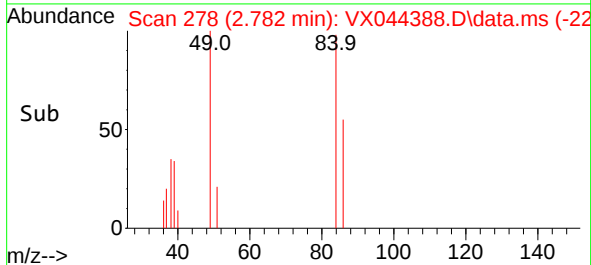
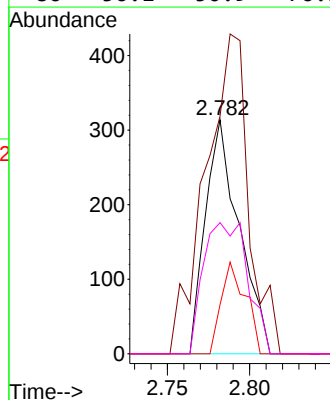
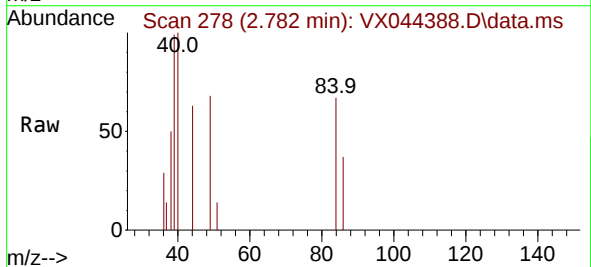
Instrument :
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ClientSampleId :
RE114D1-20241212

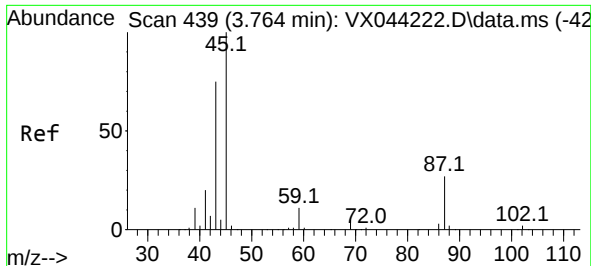
Tgt Ion: 43 Resp: 970
Ion Ratio Lower Upper
43 100
58 11.4 21.6 32.4#



#20
Methylene Chloride
Concen: 0.288 ug/l
RT: 2.782 min Scan# 278
Delta R.T. -0.000 min
Lab File: VX044388.D
Acq: 18 Dec 2024 17:08

Tgt Ion: 84 Resp: 447
Ion Ratio Lower Upper
84 100
49 101.6 104.2 156.4#
51 21.0 32.2 48.4#
86 56.1 50.9 76.3

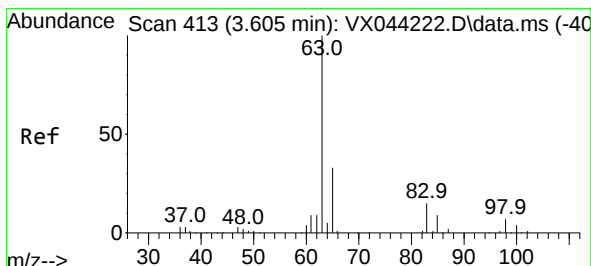
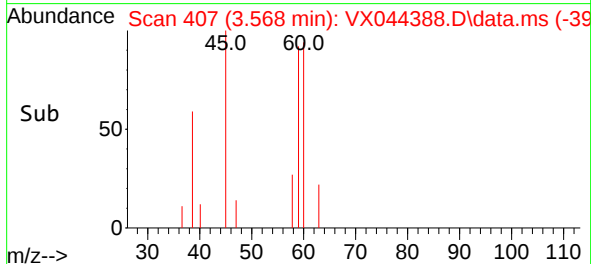
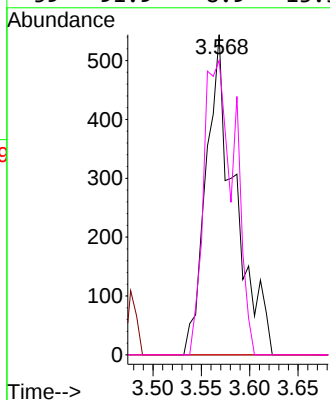
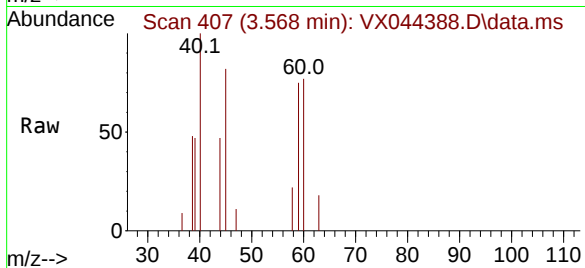




#22
Diisopropyl ether
Concen: 0.233 ug/l
RT: 3.568 min Scan# 407
Delta R.T. -0.195 min
Lab File: VX044388.D
Acq: 18 Dec 2024 17:08

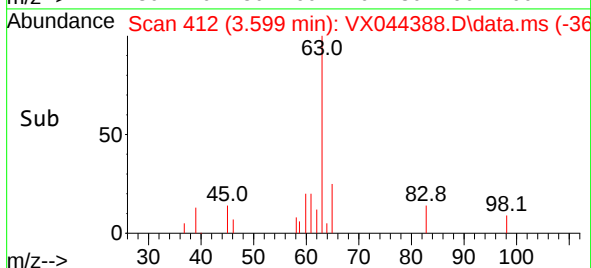
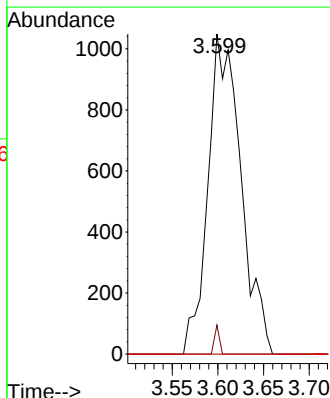
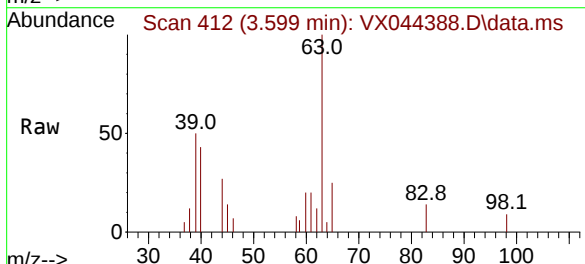
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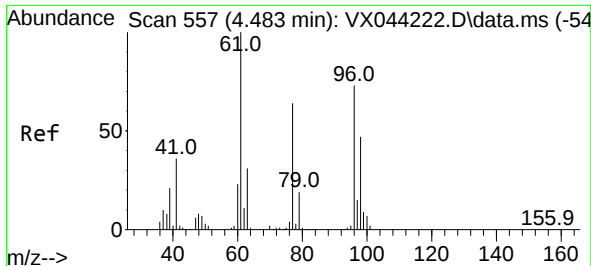
Tgt Ion:	45	Resp:	1131
Ion	Ratio	Lower	Upper
45	100		
43	0.0	60.2	90.2#
87	0.0	21.2	31.8#
59	91.9	8.9	13.3#



#24
1,1-Dichloroethane
Concen: 0.972 ug/l
RT: 3.599 min Scan# 412
Delta R.T. -0.006 min
Lab File: VX044388.D
Acq: 18 Dec 2024 17:08

Tgt Ion:	63	Resp:	2633
Ion	Ratio	Lower	Upper
63	100		
98	9.1	3.6	10.8
100	0.0	2.1	6.3#





#27

cis-1,2-Dichloroethene

Concen: 3.573 ug/l

RT: 4.483 min Scan# 51

Delta R.T. -0.000 min

Lab File: VX044388.D

Acq: 18 Dec 2024 17:08

Instrument :

MSVOA_X

ClientSampleId :

RE114D1-20241212

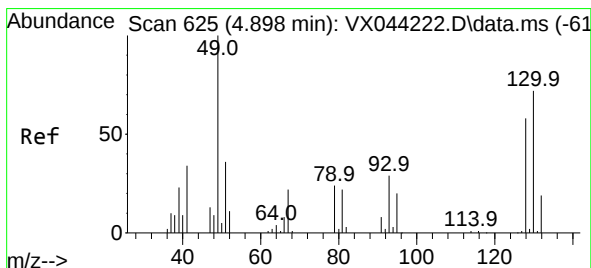
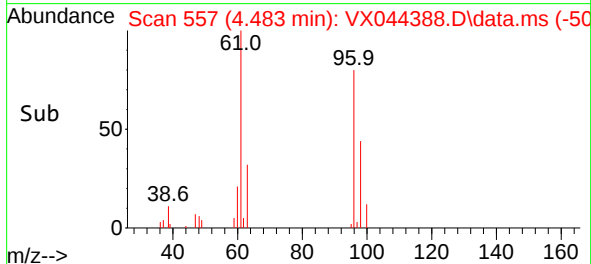
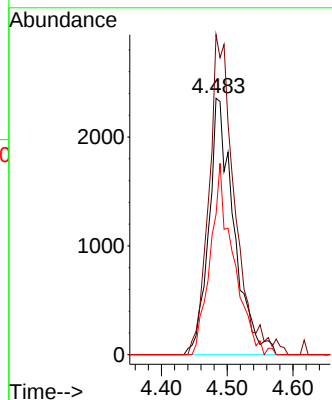
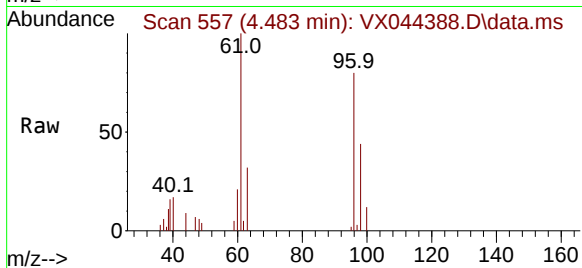
Tgt Ion: 96 Resp: 6250

Ion Ratio Lower Upper

96 100

61 128.1 0.0 299.0

98 68.4 0.0 129.0



#28

Bromochloromethane

Concen: 0.249 ug/l

RT: 5.086 min Scan# 656

Delta R.T. 0.189 min

Lab File: VX044388.D

Acq: 18 Dec 2024 17:08

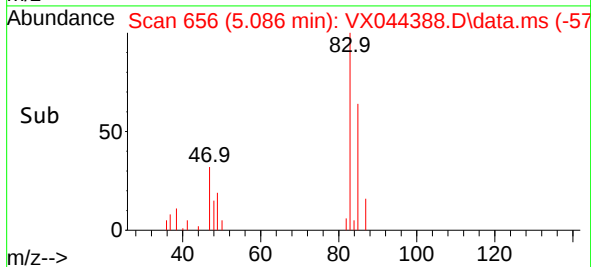
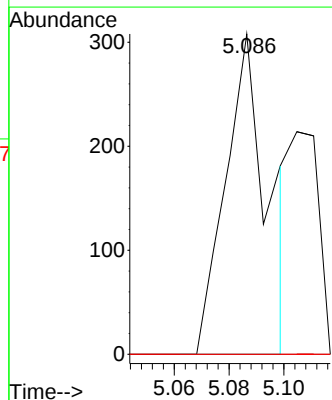
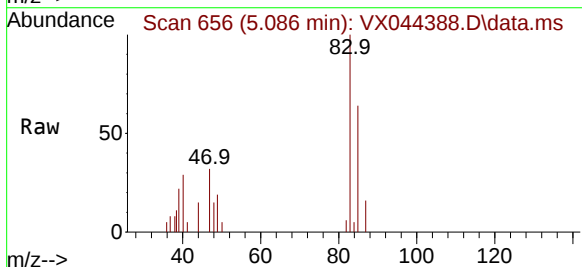
Tgt Ion: 49 Resp: 331

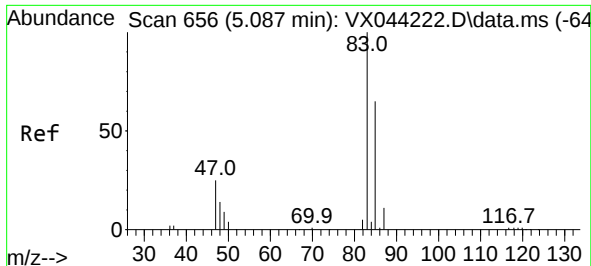
Ion Ratio Lower Upper

49 100

129 0.0 0.0 4.2

130 0.0 62.1 93.1





#30

Chloroform

Concen: 1.879 ug/l

RT: 5.093 min Scan# 61

Delta R.T. 0.006 min

Lab File: VX044388.D

Acq: 18 Dec 2024 17:08

Instrument :

MSVOA_X

ClientSampleId :

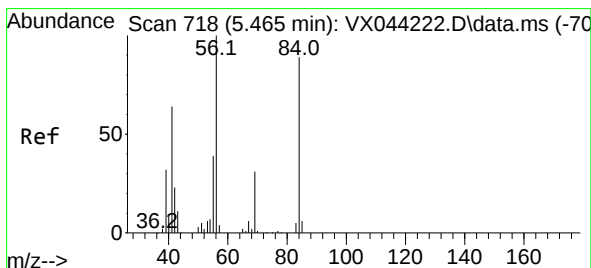
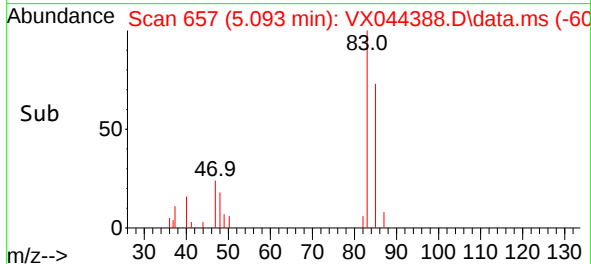
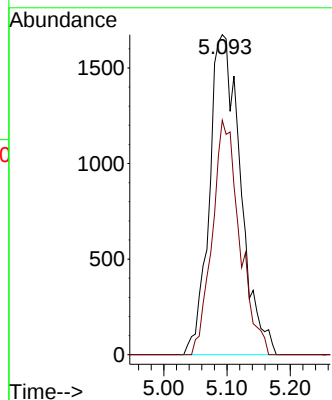
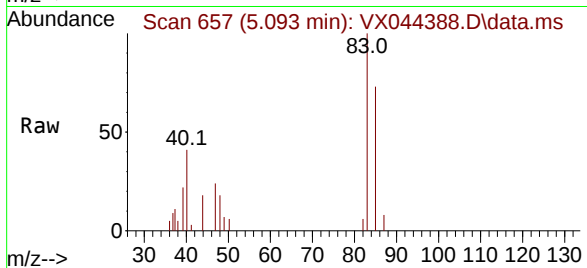
RE114D1-20241212

Tgt Ion: 83 Resp: 5719

Ion Ratio Lower Upper

83 100

85 73.2 51.6 77.4



#31

Cyclohexane

Concen: 1.397 ug/l

RT: 5.538 min Scan# 730

Delta R.T. 0.073 min

Lab File: VX044388.D

Acq: 18 Dec 2024 17:08

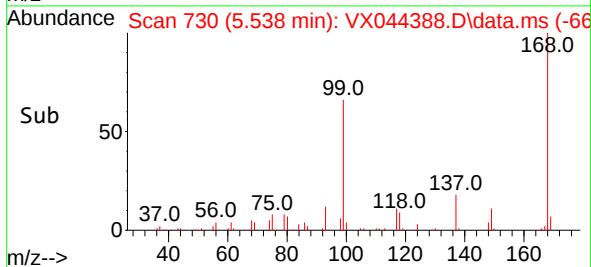
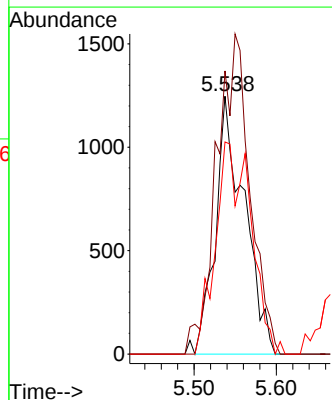
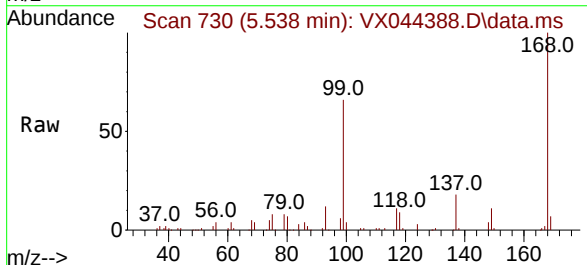
Tgt Ion: 56 Resp: 3057

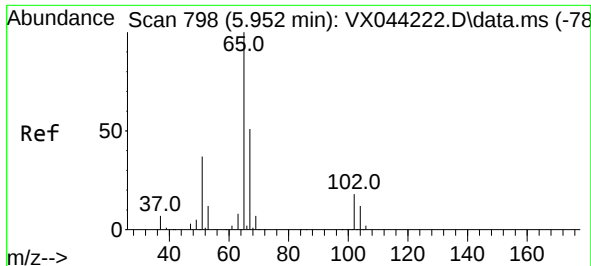
Ion Ratio Lower Upper

56 100

69 109.8 24.7 37.1#

84 82.3 71.0 106.6





#33

1,2-Dichloroethane-d4

Concen: 45.187 ug/l

RT: 5.952 min Scan# 798

Delta R.T. -0.000 min

Lab File: VX044388.D

Acq: 18 Dec 2024 17:08

Instrument :

MSVOA_X

ClientSampleId :

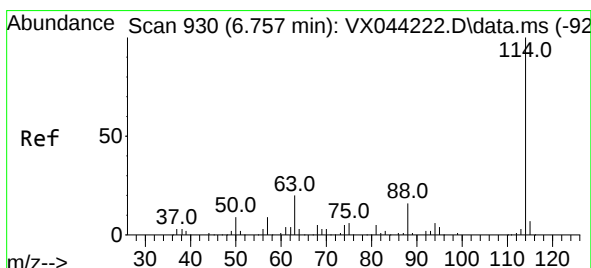
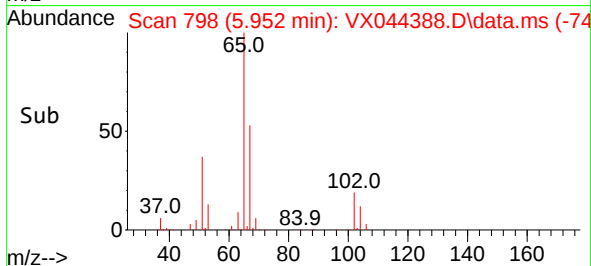
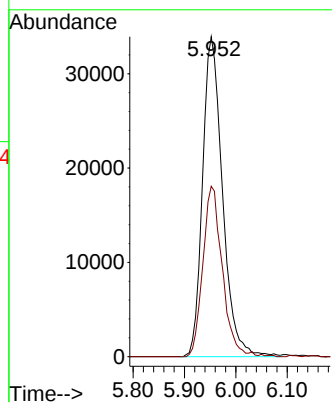
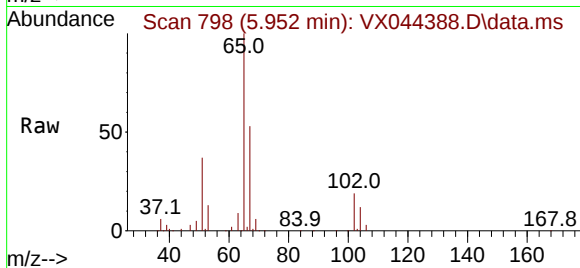
RE114D1-20241212

Tgt Ion: 65 Resp: 91590

Ion Ratio Lower Upper

65 100

67 51.7 0.0 101.6



#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 6.757 min Scan# 930

Delta R.T. -0.000 min

Lab File: VX044388.D

Acq: 18 Dec 2024 17:08

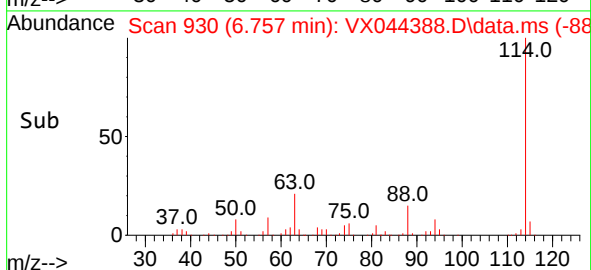
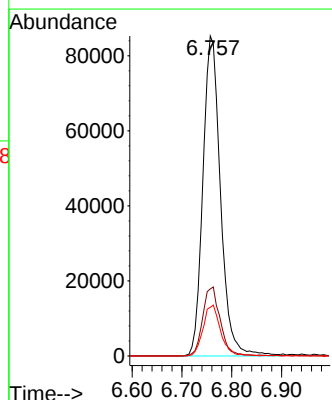
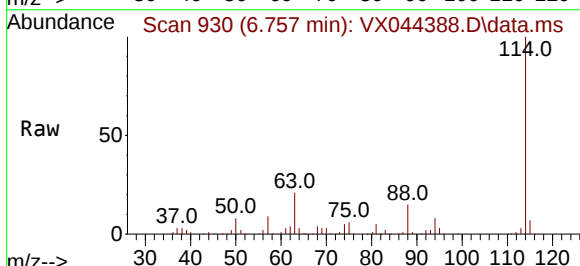
Tgt Ion: 114 Resp: 209270

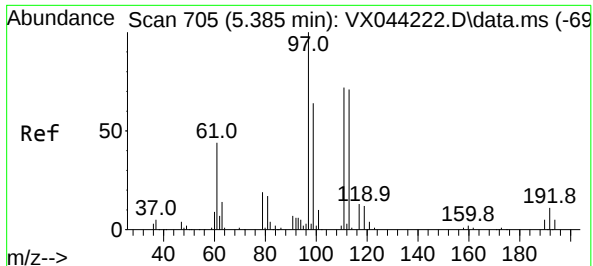
Ion Ratio Lower Upper

114 100

63 21.0 0.0 40.6

88 15.2 0.0 31.8





#35

Dibromofluoromethane

Concen: 47.826 ug/l

RT: 5.379 min Scan# 705

Delta R.T. -0.006 min

Lab File: VX044388.D

Acq: 18 Dec 2024 17:08

Instrument :

MSVOA_X

ClientSampleId :

RE114D1-20241212

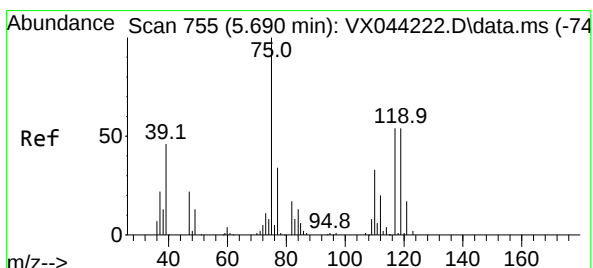
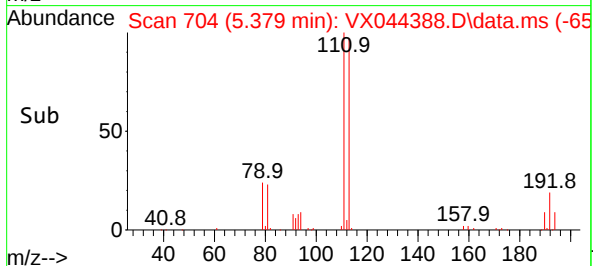
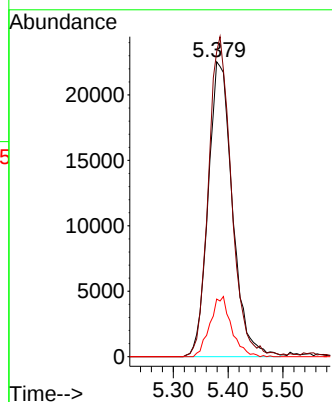
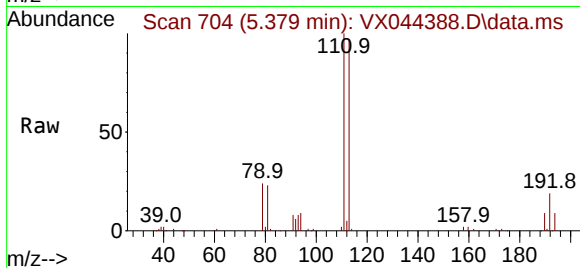
Tgt Ion:113 Resp: 69318

Ion Ratio Lower Upper

113 100

111 102.8 80.4 120.6

192 18.0 13.3 19.9



#36

1,1-Dichloropropene

Concen: 5.560 ug/l

RT: 5.550 min Scan# 732

Delta R.T. -0.140 min

Lab File: VX044388.D

Acq: 18 Dec 2024 17:08

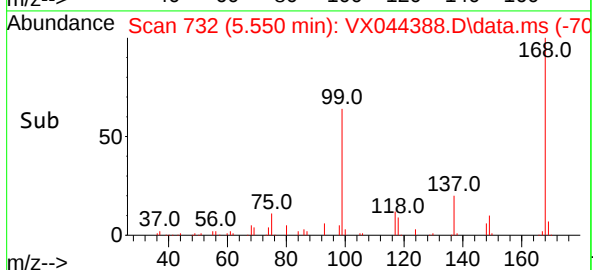
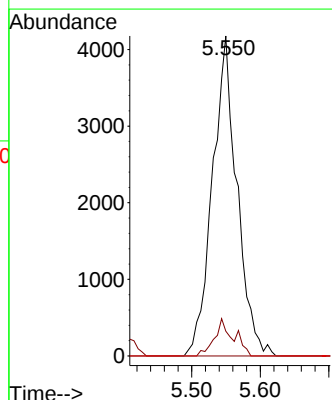
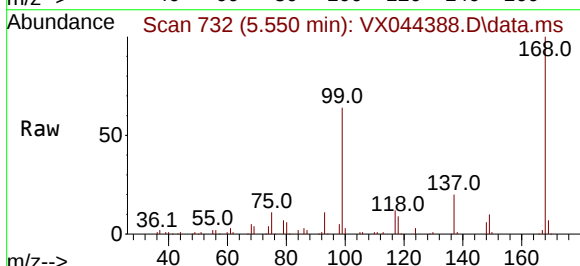
Tgt Ion: 75 Resp: 10416

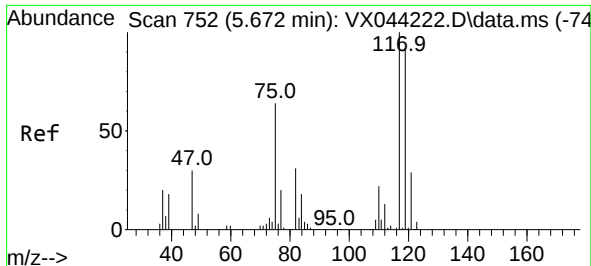
Ion Ratio Lower Upper

75 100

110 9.0 17.3 51.7#

77 0.0 25.4 38.0#

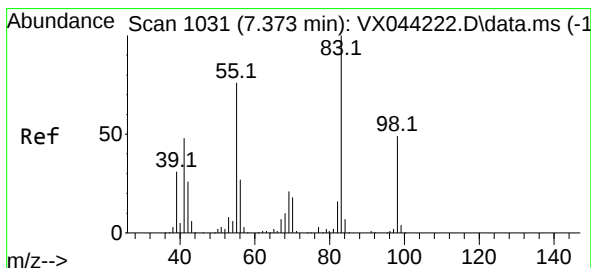
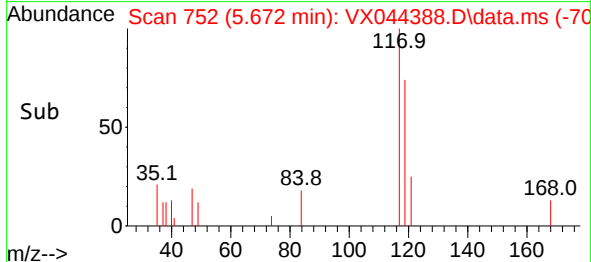
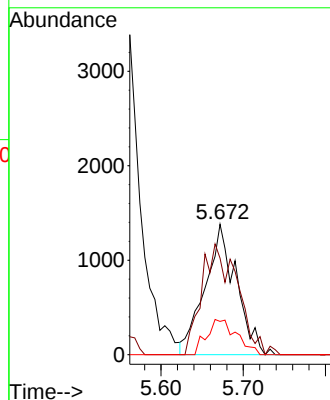
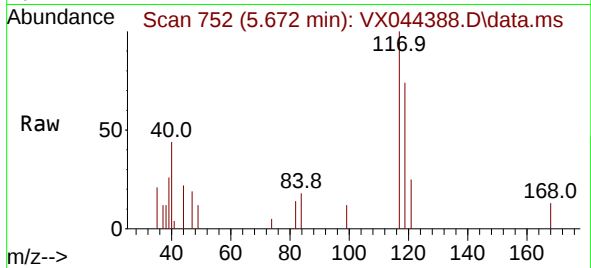




#38
Carbon Tetrachloride
Concen: 1.810 ug/l
RT: 5.672 min Scan# 71
Delta R.T. -0.000 min
Lab File: VX044388.D
Acq: 18 Dec 2024 17:08

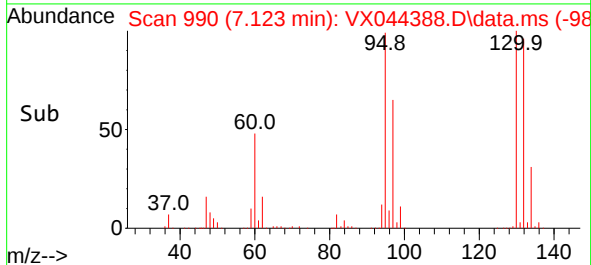
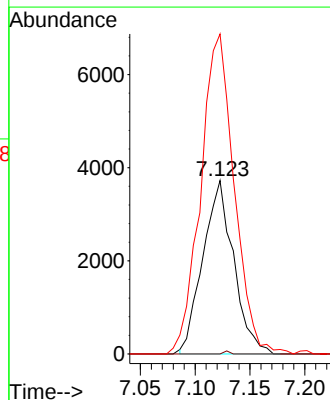
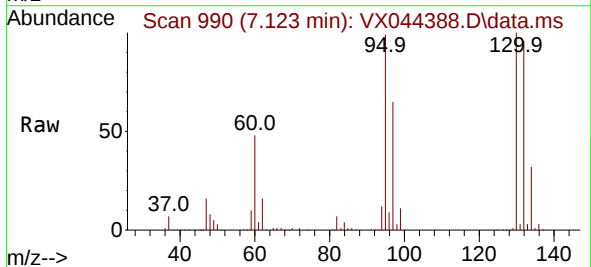
Instrument :
MSVOA_X
ClientSampleId :
RE114D1-20241212

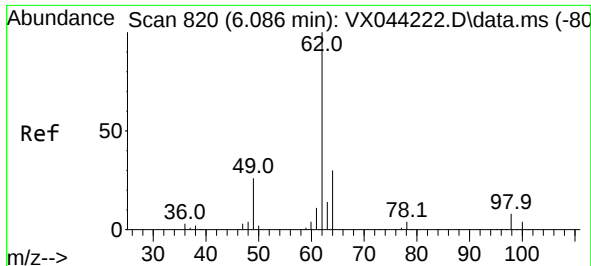
Tgt Ion:117 Resp: 3650
Ion Ratio Lower Upper
117 100
119 73.9 74.2 111.4#
121 25.5 23.0 34.6



#39
Methylcyclohexane
Concen: 3.237 ug/l
RT: 7.123 min Scan# 990
Delta R.T. -0.250 min
Lab File: VX044388.D
Acq: 18 Dec 2024 17:08

Tgt Ion: 83 Resp: 7250
Ion Ratio Lower Upper
83 100
55 0.0 60.7 91.1#
98 186.8 38.9 58.3#





#42

1,2-Dichloroethane

Concen: 0.282 ug/l

RT: 6.098 min Scan# 81

Delta R.T. 0.012 min

Lab File: VX044388.D

Acq: 18 Dec 2024 17:08

Instrument :

MSVOA_X

ClientSampleId :

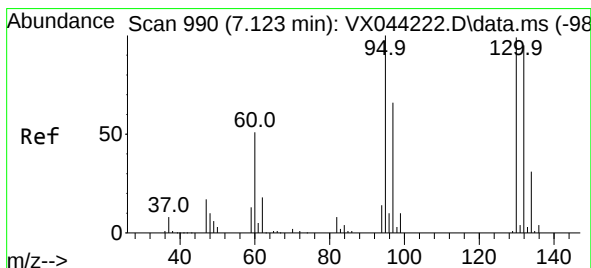
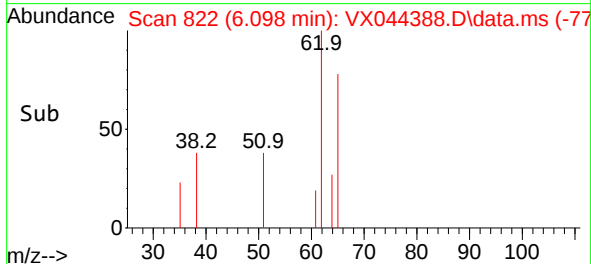
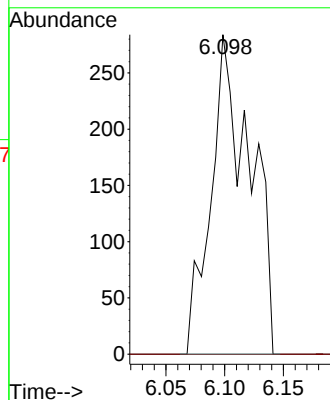
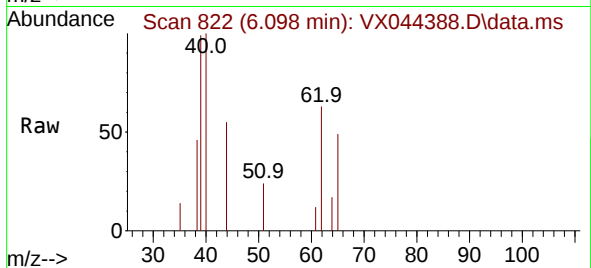
RE114D1-20241212

Tgt Ion: 62 Resp: 661

Ion Ratio Lower Upper

62 100

98 0.0 0.0 15.8



#44

Trichloroethene

Concen: 390.956 ug/l

RT: 7.123 min Scan# 990

Delta R.T. -0.000 min

Lab File: VX044388.D

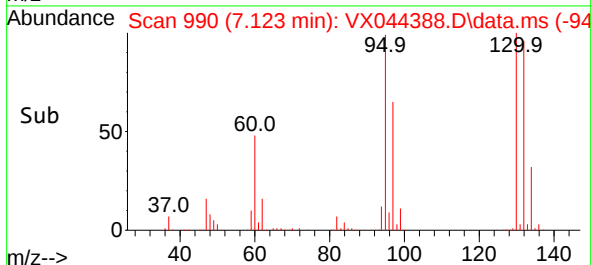
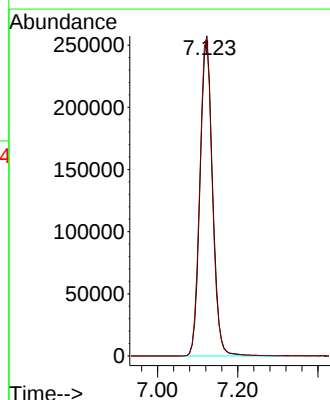
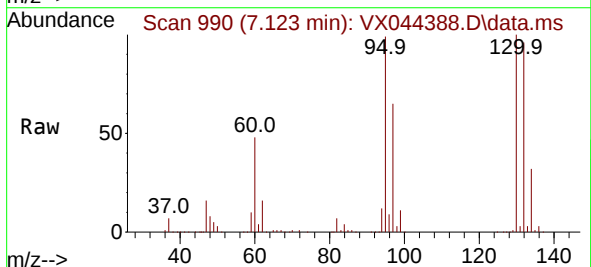
Acq: 18 Dec 2024 17:08

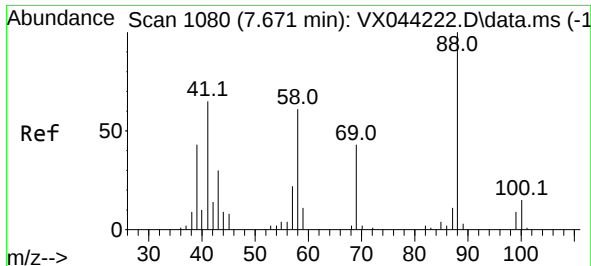
Tgt Ion:130 Resp: 554580

Ion Ratio Lower Upper

130 100

95 99.5 0.0 201.4





#49

1,4-Dioxane

Concen: 14.726 ug/l

RT: 7.696 min Scan# 1084

Delta R.T. 0.024 min

Lab File: VX044388.D

Acq: 18 Dec 2024 17:08

Instrument :

MSVOA_X

ClientSampleId :

RE114D1-20241212

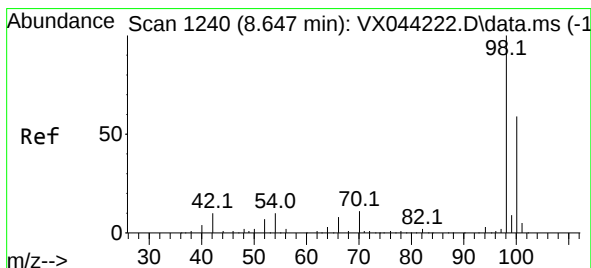
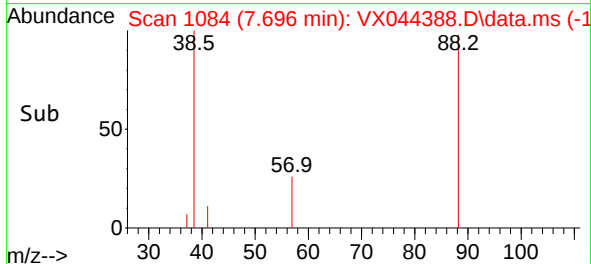
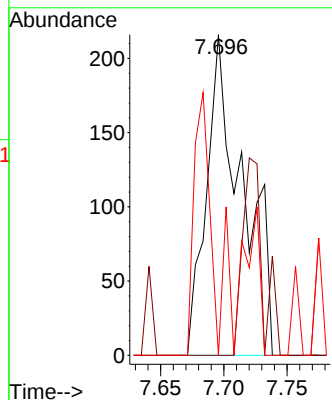
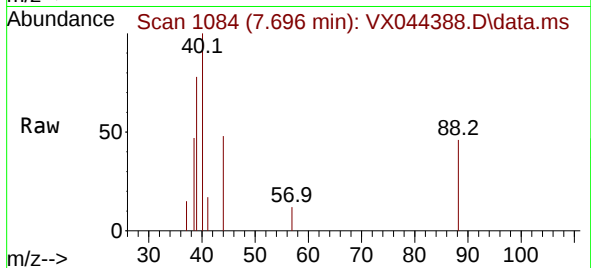
Tgt Ion: 88 Resp: 429

Ion Ratio Lower Upper

88 100

43 0.0 27.1 40.7#

58 8.6 41.0 61.4#



#50

Toluene-d8

Concen: 51.159 ug/l

RT: 8.647 min Scan# 1240

Delta R.T. -0.000 min

Lab File: VX044388.D

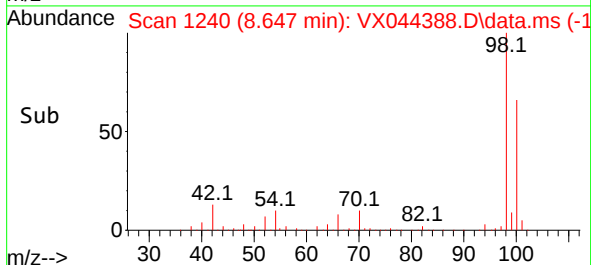
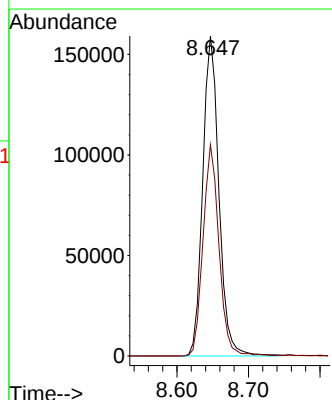
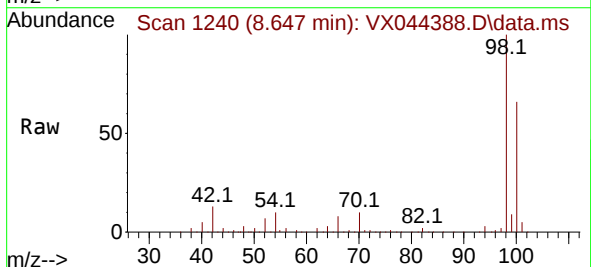
Acq: 18 Dec 2024 17:08

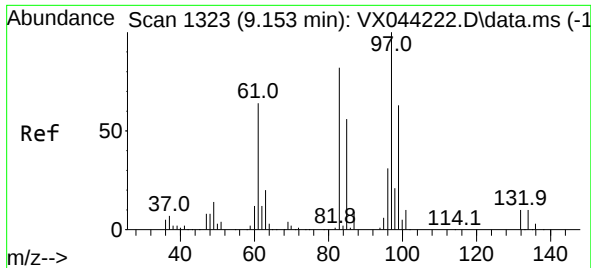
Tgt Ion: 98 Resp: 250157

Ion Ratio Lower Upper

98 100

100 65.0 51.5 77.3

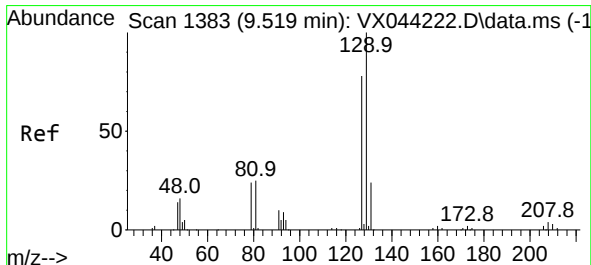
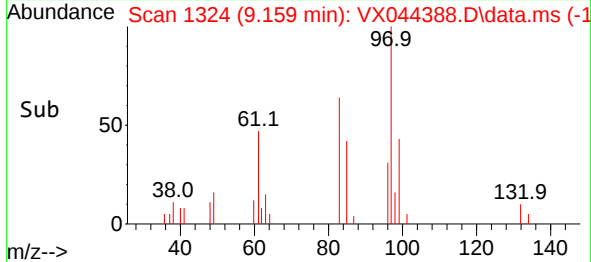
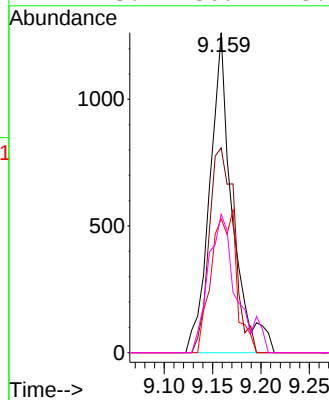
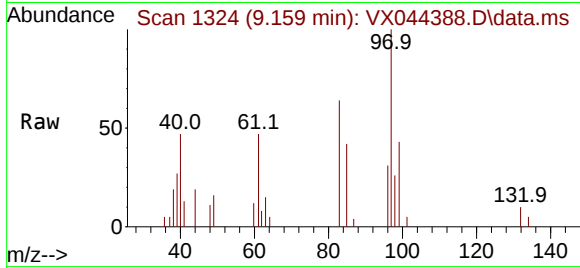




#55
 1,1,2-Trichloroethane
 Concen: 1.439 ug/l
 RT: 9.159 min Scan# 11
 Delta R.T. 0.006 min
 Lab File: VX044388.D
 Acq: 18 Dec 2024 17:08

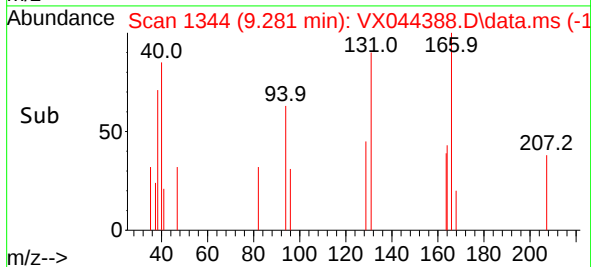
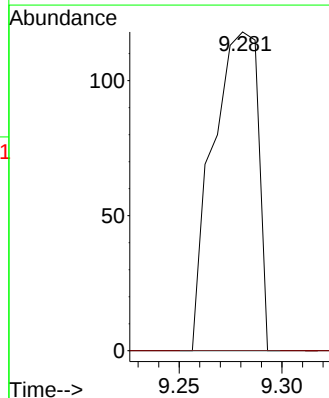
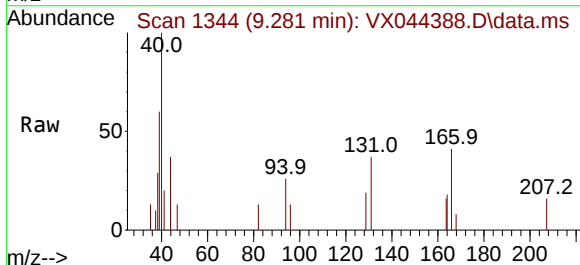
Instrument :
 MSVOA_X
 ClientSampleId :
 RE114D1-20241212

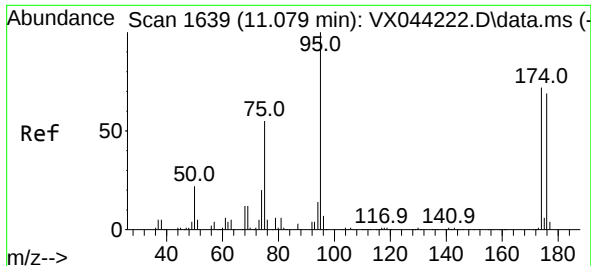
Tgt Ion: 97	Resp:	2042
Ion	Ratio	Lower Upper
97	100	
83	64.0	65.3 97.9#
85	41.8	44.6 67.0#
99	43.2	50.2 75.2#



#60
 Dibromochloromethane
 Concen: 1.354 ug/l
 RT: 9.281 min Scan# 1344
 Delta R.T. -0.238 min
 Lab File: VX044388.D
 Acq: 18 Dec 2024 17:08

Tgt Ion: 129	Resp:	181
Ion	Ratio	Lower Upper
129	100	
127	0.0	38.5 115.3#

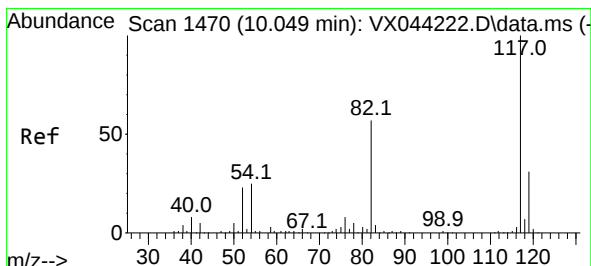
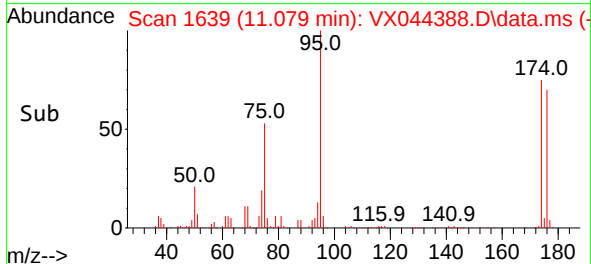
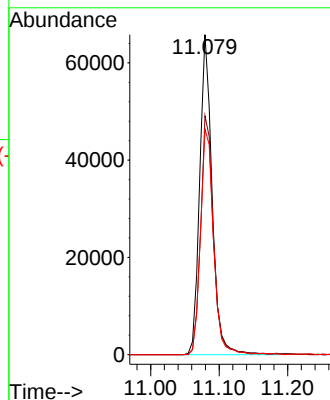
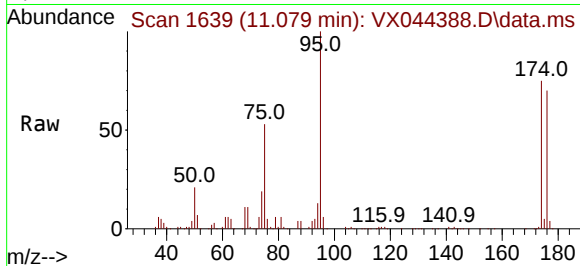




#62
4-Bromofluorobenzene
Concen: 48.752 ug/l
RT: 11.079 min Scan# 1
Delta R.T. -0.000 min
Lab File: VX044388.D
Acq: 18 Dec 2024 17:08

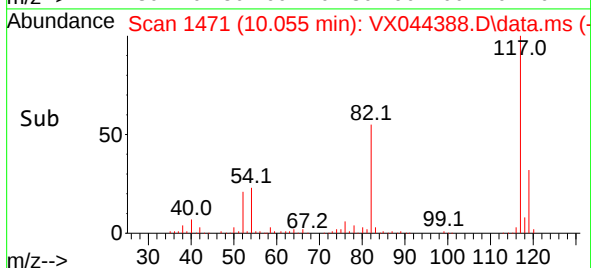
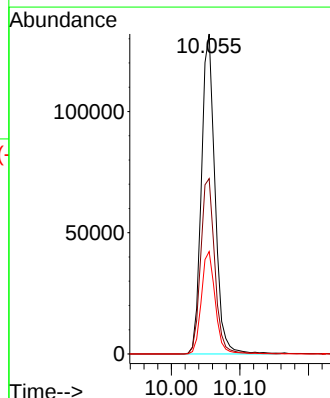
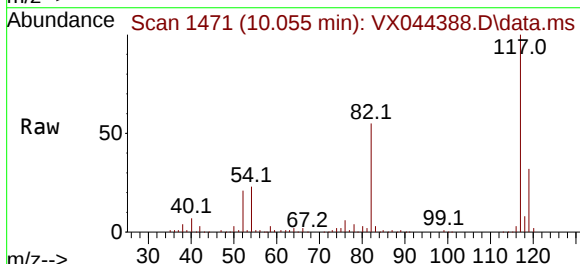
Instrument :
MSVOA_X
ClientSampleId :
RE114D1-20241212

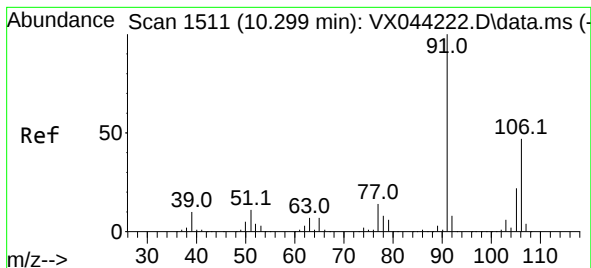
Tgt Ion: 95 Resp: 83299
Ion Ratio Lower Upper
95 100
174 76.6 0.0 145.8
176 74.0 0.0 137.8



#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 10.055 min Scan# 1471
Delta R.T. 0.006 min
Lab File: VX044388.D
Acq: 18 Dec 2024 17:08

Tgt Ion: 117 Resp: 182535
Ion Ratio Lower Upper
117 100
82 54.8 45.8 68.8
119 32.0 25.0 37.4

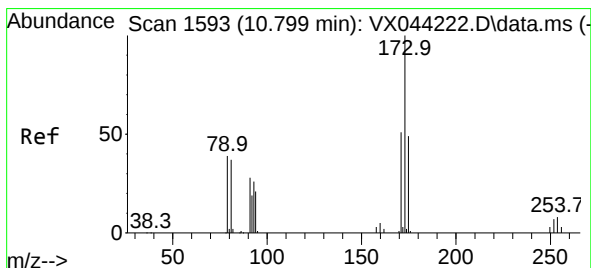
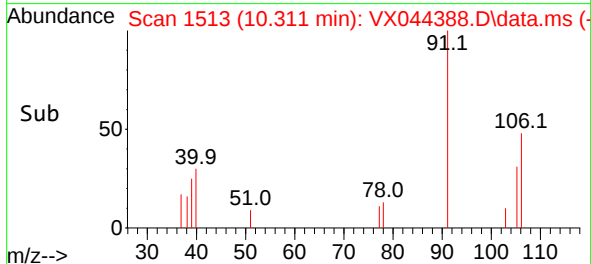
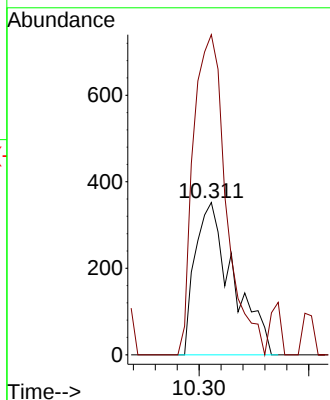
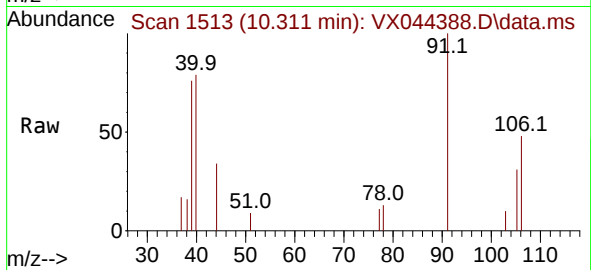




#68
m/p-Xylenes
Concen: 0.341 ug/l
RT: 10.311 min Scan# 1513
Delta R.T. 0.012 min
Lab File: VX044388.D
Acq: 18 Dec 2024 17:08

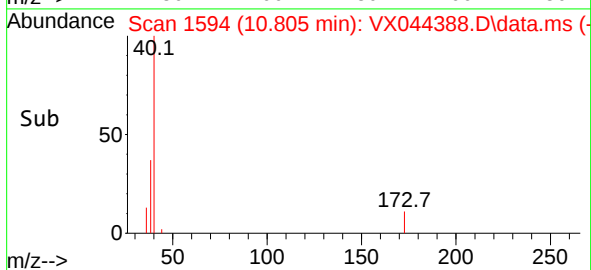
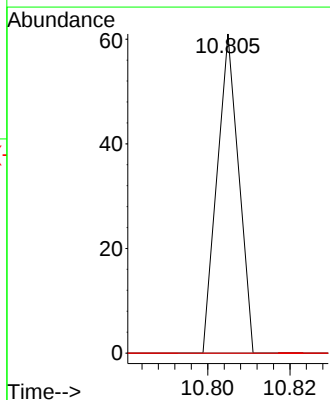
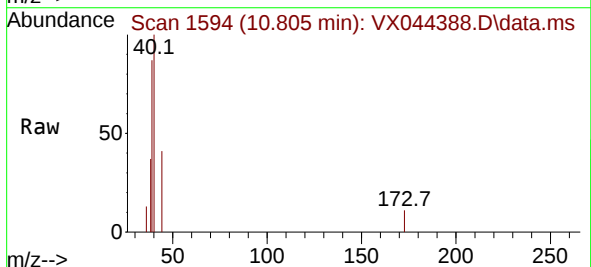
Instrument :
MSVOA_X
ClientSampleId :
RE114D1-20241212

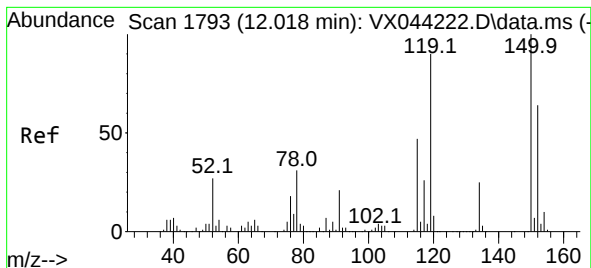
Tgt Ion:106 Resp: 846
Ion Ratio Lower Upper
106 100
91 181.8 170.2 255.2



#71
Bromoform
Concen: 1.257 ug/l
RT: 10.805 min Scan# 1594
Delta R.T. 0.006 min
Lab File: VX044388.D
Acq: 18 Dec 2024 17:08

Tgt Ion:173 Resp: 22
Ion Ratio Lower Upper
173 100
175 0.0 23.8 71.4#
254 0.0 0.0 0.0





#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

RT: 12.024 min Scan# 1

Delta R.T. 0.006 min

Lab File: VX044388.D

Acq: 18 Dec 2024 17:08

Instrument :

MSVOA_X

ClientSampleId :

RE114D1-20241212

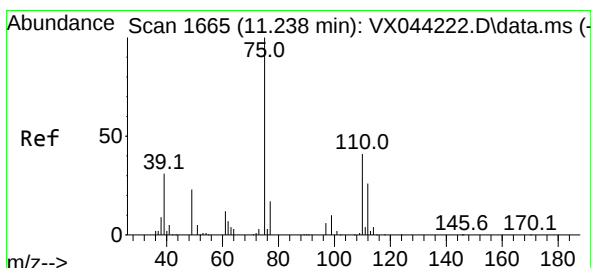
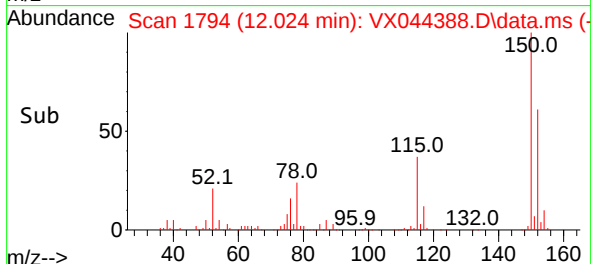
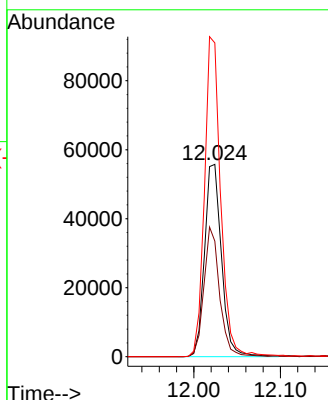
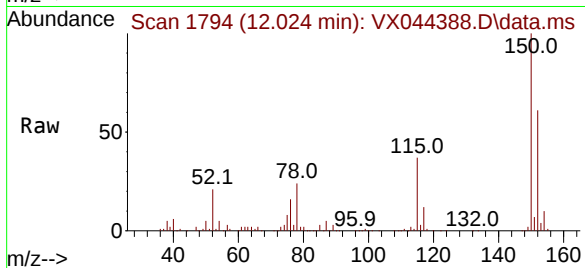
Tgt Ion:152 Resp: 75803

Ion Ratio Lower Upper

152 100

115 62.3 44.5 133.3

150 159.6 0.0 353.8



#76

1,2,3-Trichloropropane

Concen: 26.799 ug/l

RT: 11.079 min Scan# 1639

Delta R.T. -0.159 min

Lab File: VX044388.D

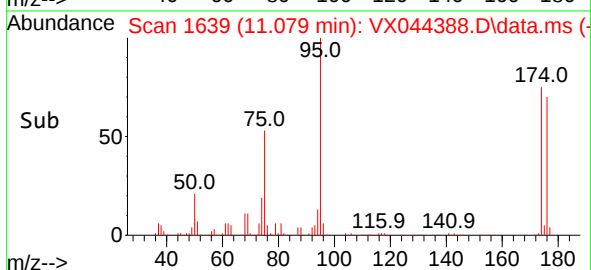
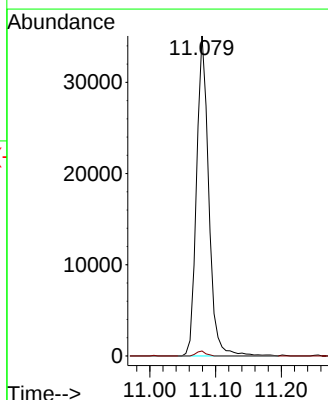
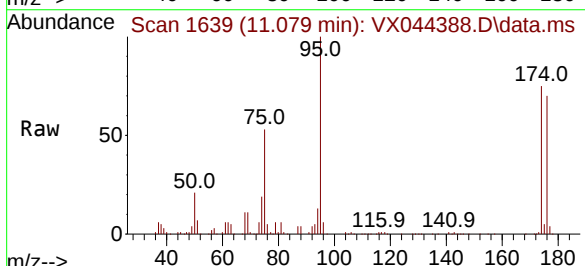
Acq: 18 Dec 2024 17:08

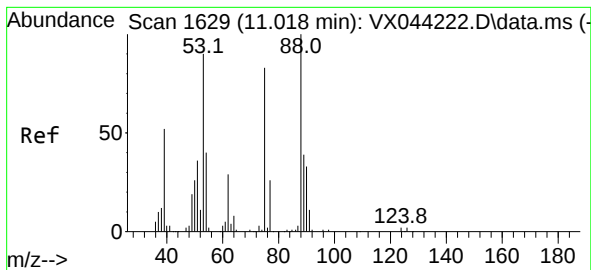
Tgt Ion: 75 Resp: 45357

Ion Ratio Lower Upper

75 100

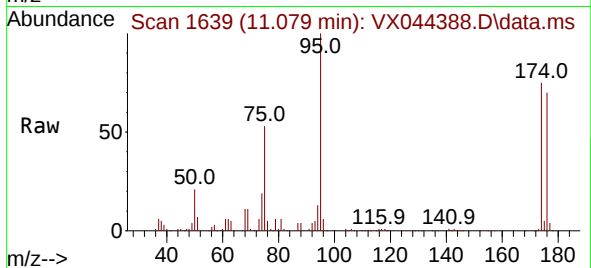
77 1.2 20.9 62.7#





#81
 trans-1,4-Dichloro-2-butene
 Concen: 73.803 ug/l
 RT: 11.079 min Scan# 1
 Delta R.T. 0.061 min
 Lab File: VX044388.D
 Acq: 18 Dec 2024 17:08

Instrument :
 MSVOA_X
 ClientSampleId :
 RE114D1-20241212



Tgt Ion: 75 Resp: 45357
 Ion Ratio Lower Upper
 75 100
 53 0.0 93.6 140.4#
 89 0.1 37.3 55.9#

