

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX042825\
 Data File : VX045945.D
 Acq On : 28 Apr 2025 10:44
 Operator : JC/MD
 Sample : VX0428MBL01
 Misc : 5.00g/10mL/100uL/5.00mL/MSVOA_X/MEOH
 ALS Vial : 3 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :
 VX0428MBL01

Quant Time: Apr 29 01:31:54 2025
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X040225W.M
 Quant Title : SW846 8260
 QLast Update : Wed Apr 02 03:11:43 2025
 Response via : Initial Calibration

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

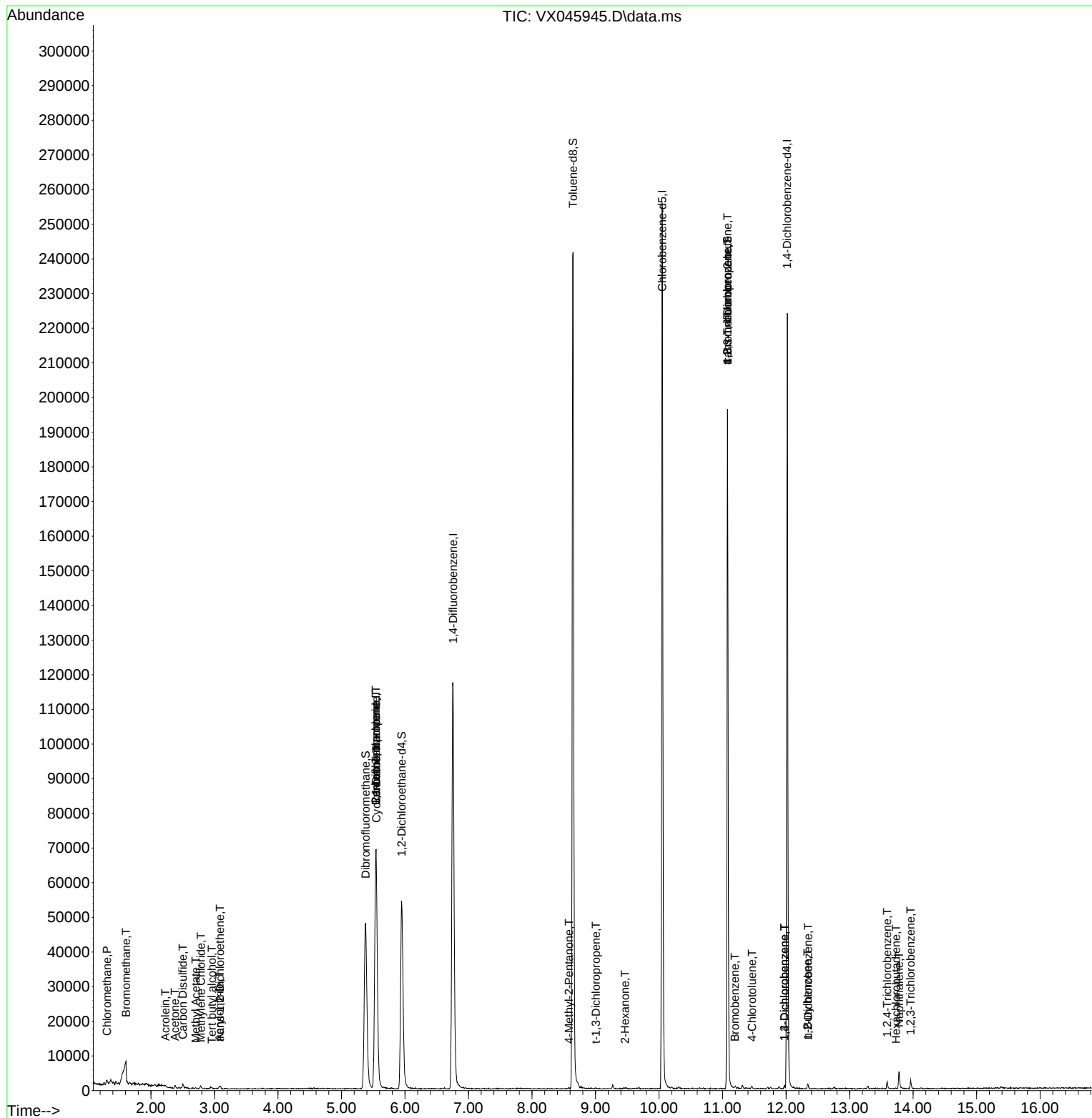
Internal Standards						
1) Pentafluorobenzene	5.544	168	58893	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	6.757	114	112499	50.000	ug/l	0.00
63) Chlorobenzene-d5	10.049	117	105311	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.018	152	40604	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	5.946	65	56116	52.104	ug/l	0.00
Spiked Amount 50.000	Range 74 - 125		Recovery = 104.200%			
35) Dibromofluoromethane	5.379	113	41472	51.958	ug/l	0.00
Spiked Amount 50.000	Range 75 - 124		Recovery = 103.920%			
50) Toluene-d8	8.647	98	142251	51.060	ug/l	0.00
Spiked Amount 50.000	Range 86 - 113		Recovery = 102.120%			
62) 4-Bromofluorobenzene	11.079	95	51139	50.394	ug/l	0.00
Spiked Amount 50.000	Range 77 - 121		Recovery = 100.780%			
Target Compounds					Qvalue	
3) Chloromethane	1.307	50	1424	1.574	ug/l	100
5) Bromomethane	1.605	94	128	0.326	ug/l #	3
11) Tert butyl alcohol	2.959	59	145	1.002	ug/l #	72
13) Acrolein	2.227	56	160	0.803	ug/l	87
15) Acrylonitrile	3.081	53	337	0.738	ug/l	96
16) Acetone	2.380	43	950	2.148	ug/l #	84
17) Carbon Disulfide	2.502	76	1399	0.801	ug/l	95
18) Methyl Acetate	2.703	43	370	0.363	ug/l #	54
20) Methylene Chloride	2.788	84	271	0.327	ug/l	93
21) trans-1,2-Dichloroethene	3.087	96	192	0.266	ug/l #	62
31) Cyclohexane	5.550	56	1714	1.297	ug/l #	42
36) 1,1-Dichloropropene	5.544	75	5680	5.270	ug/l #	50
38) Carbon Tetrachloride	5.544	117	6850	5.881	ug/l #	16
51) 4-Methyl-2-Pentanone	8.580	43	289	0.212	ug/l #	39
53) t-1,3-Dichloropropene	9.007	75	40	2.321	ug/l #	43
59) 2-Hexanone	9.464	43	231	0.229	ug/l #	28
76) 1,2,3-Trichloropropane	11.079	75	29730	30.017	ug/l #	37
77) Bromobenzene	11.195	156	158	0.210	ug/l	66
81) trans-1,4-Dichloro-2-b...	11.079	75	29730	101.875	ug/l #	1
82) 4-Chlorotoluene	11.463	91	596	0.223	ug/l #	48
87) 1,3-Dichlorobenzene	11.976	146	391	0.286	ug/l	92
88) 1,4-Dichlorobenzene	11.976	146	391	0.282	ug/l	90
89) n-Butylbenzene	12.341	91	524	0.224	ug/l	87
91) 1,2-Dichlorobenzene	12.347	146	348	0.256	ug/l	95
93) 1,2,4-Trichlorobenzene	13.591	180	583	0.770	ug/l	92
94) Hexachlorobutadiene	13.731	225	127	0.389	ug/l #	19
95) Naphthalene	13.780	128	3750	1.331	ug/l	98
96) 1,2,3-Trichlorobenzene	13.963	180	722	0.911	ug/l	79

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

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Sample : VX0428MBL01
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ALS Vial : 3 Sample Multiplier: 1

Instrument :
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QLast Update : Wed Apr 02 03:11:43 2025
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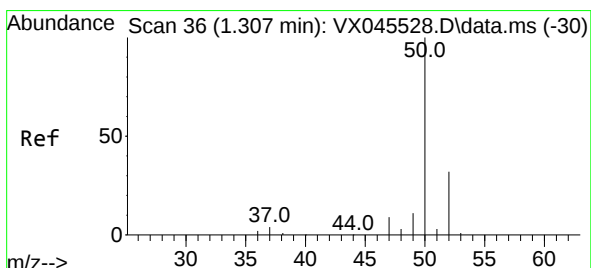
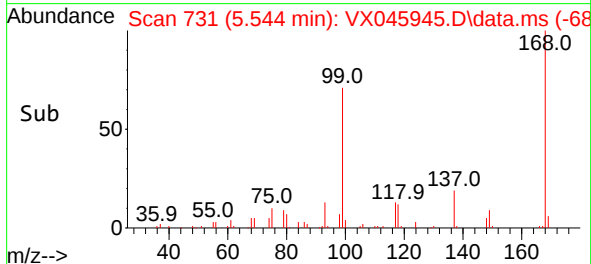
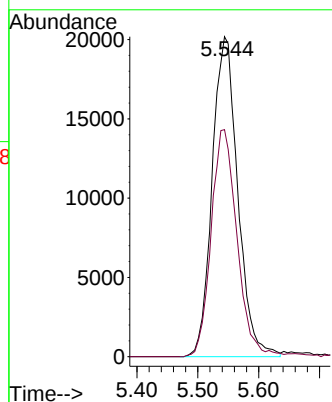
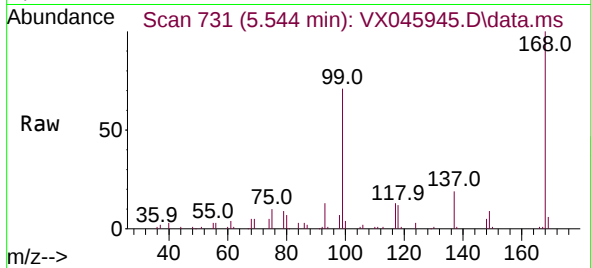




#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 5.544 min Scan# 731
Delta R.T. -0.006 min
Lab File: VX045945.D
Acq: 28 Apr 2025 10:44

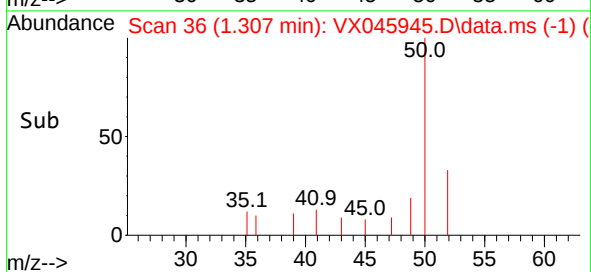
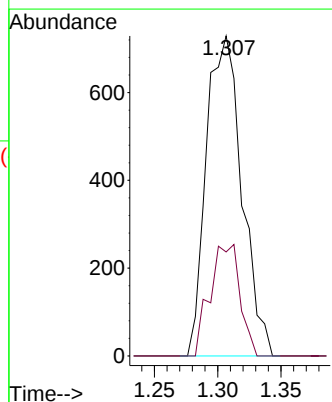
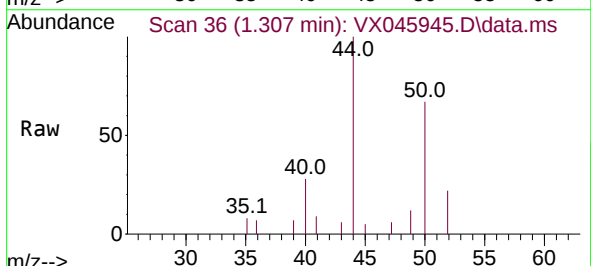
Instrument :
MSVOA_X
ClientSampleId :
VX0428MBL01

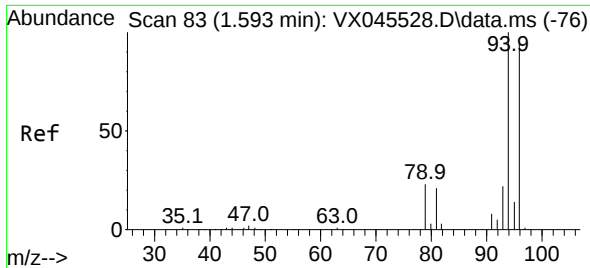
Tgt Ion:168 Resp: 58893
Ion Ratio Lower Upper
168 100
99 70.9 52.3 78.5



#3
Chloromethane
Concen: 1.574 ug/l
RT: 1.307 min Scan# 36
Delta R.T. 0.000 min
Lab File: VX045945.D
Acq: 28 Apr 2025 10:44

Tgt Ion: 50 Resp: 1424
Ion Ratio Lower Upper
50 100
52 32.5 25.9 38.9

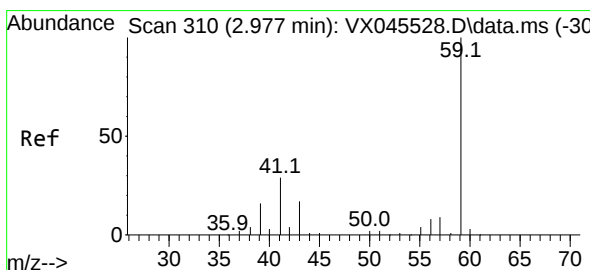
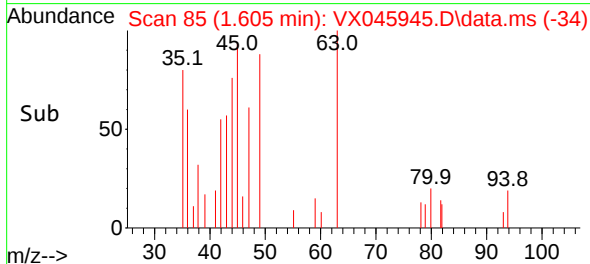
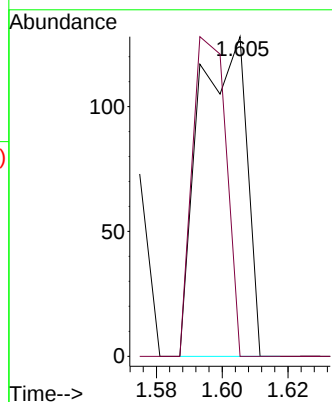
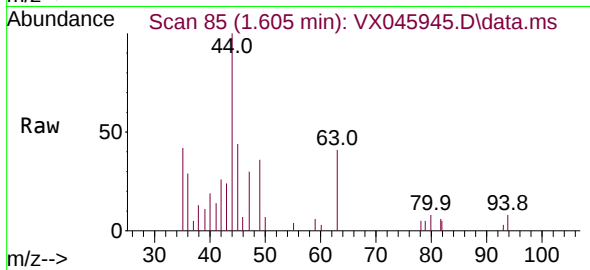




#5
Bromomethane
Concen: 0.326 ug/l
RT: 1.605 min Scan# 81
Delta R.T. 0.012 min
Lab File: VX045945.D
Acq: 28 Apr 2025 10:44

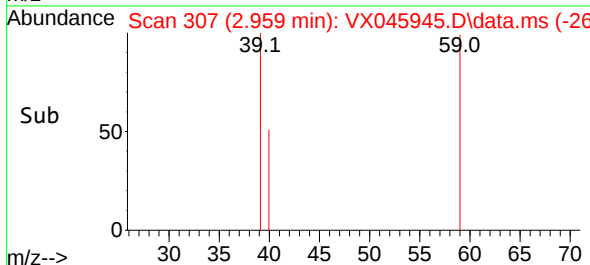
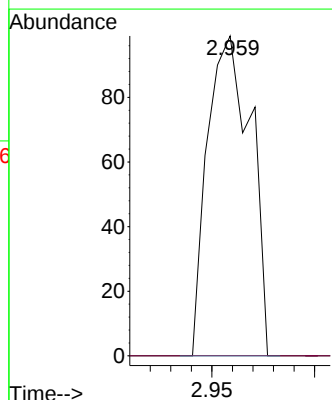
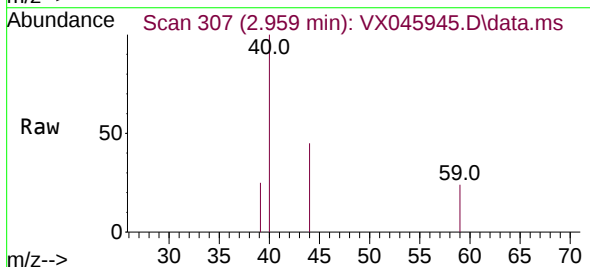
Instrument :
MSVOA_X
ClientSampleId :
VX0428MBL01

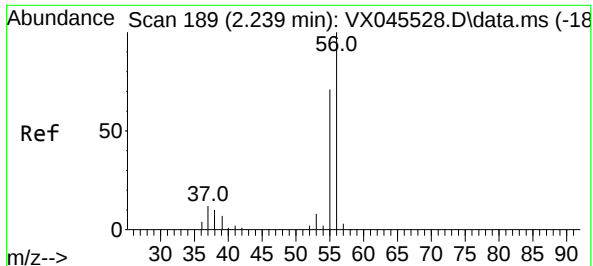
Tgt Ion: 94 Resp: 128
Ion Ratio Lower Upper
94 100
96 0.0 74.8 112.2#



#11
Tert butyl alcohol
Concen: 1.002 ug/l
RT: 2.959 min Scan# 307
Delta R.T. -0.018 min
Lab File: VX045945.D
Acq: 28 Apr 2025 10:44

Tgt Ion: 59 Resp: 145
Ion Ratio Lower Upper
59 100
57 0.0 8.6 12.8#

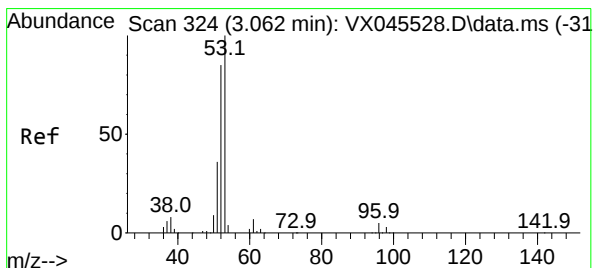
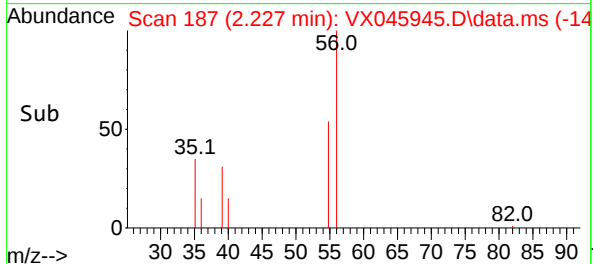
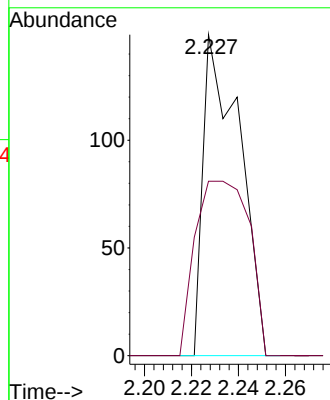
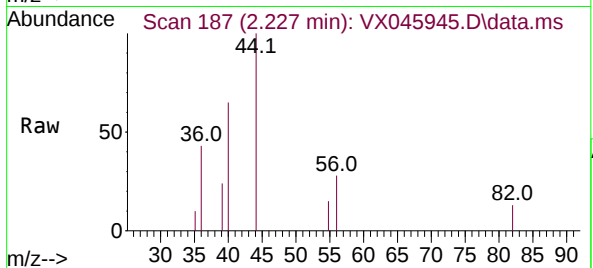




#13
Acrolein
Concen: 0.803 ug/l
RT: 2.227 min Scan# 11
Delta R.T. -0.012 min
Lab File: VX045945.D
Acq: 28 Apr 2025 10:44

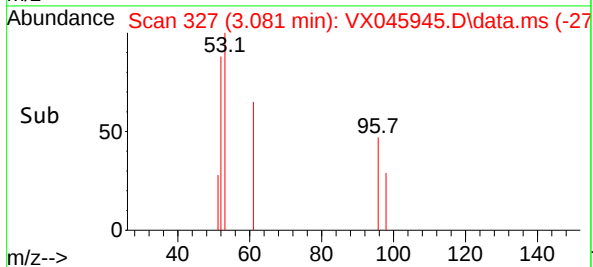
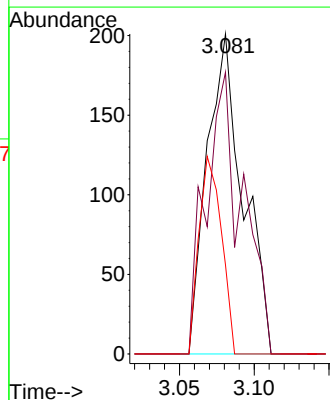
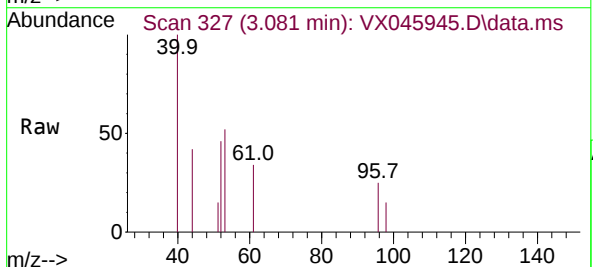
Instrument :
MSVOA_X
ClientSampleId :
VX0428MBL01

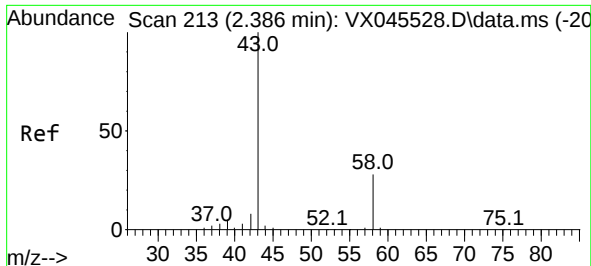
Tgt Ion: 56 Resp: 160
Ion Ratio Lower Upper
56 100
55 80.6 56.2 84.2



#15
Acrylonitrile
Concen: 0.738 ug/l
RT: 3.081 min Scan# 327
Delta R.T. 0.018 min
Lab File: VX045945.D
Acq: 28 Apr 2025 10:44

Tgt Ion: 53 Resp: 337
Ion Ratio Lower Upper
53 100
52 89.0 67.4 101.2
51 38.6 29.9 44.9

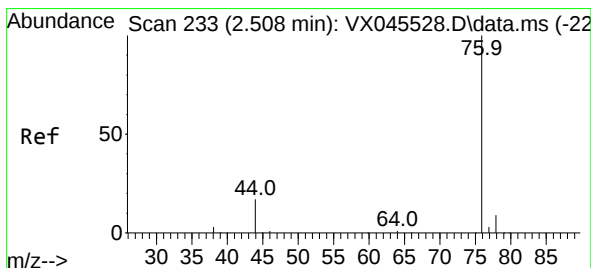
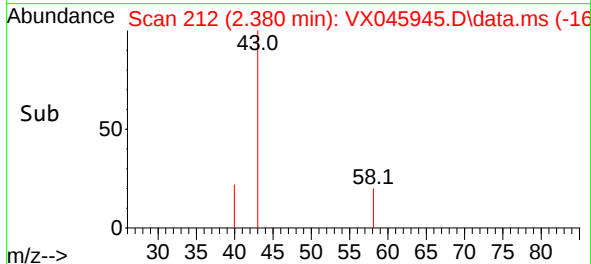
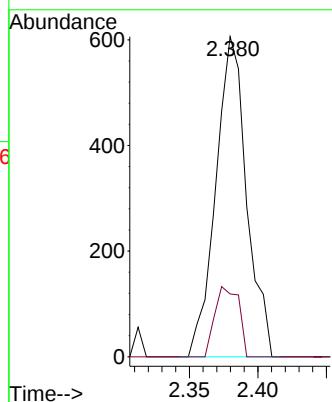
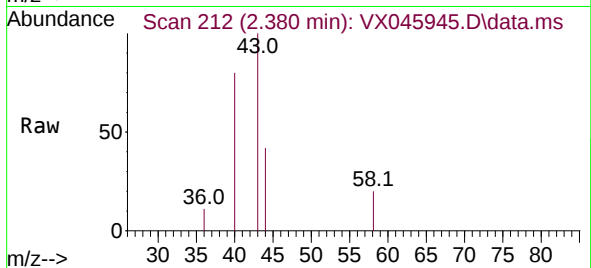




#16
Acetone
Concen: 2.148 ug/l
RT: 2.380 min Scan# 21
Delta R.T. -0.006 min
Lab File: VX045945.D
Acq: 28 Apr 2025 10:44

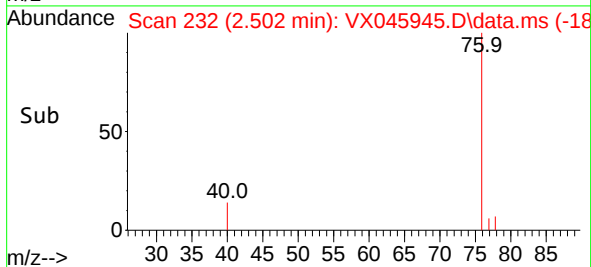
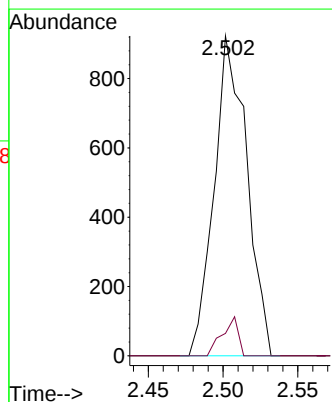
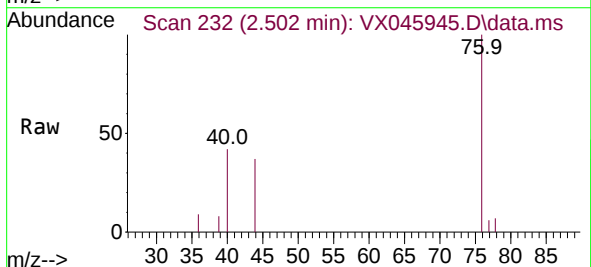
Instrument :
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ClientSampleId :
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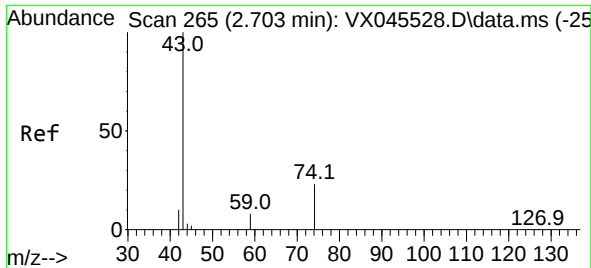
Tgt Ion: 43 Resp: 950
Ion Ratio Lower Upper
43 100
58 19.6 22.3 33.5#



#17
Carbon Disulfide
Concen: 0.801 ug/l
RT: 2.502 min Scan# 232
Delta R.T. -0.006 min
Lab File: VX045945.D
Acq: 28 Apr 2025 10:44

Tgt Ion: 76 Resp: 1399
Ion Ratio Lower Upper
76 100
78 7.0 7.0 10.6

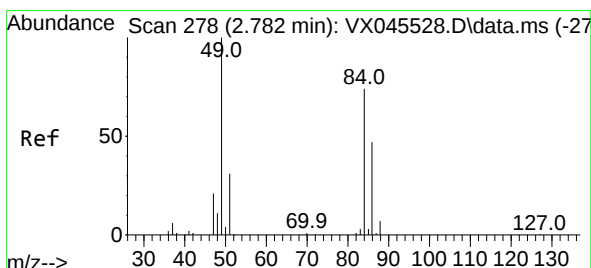
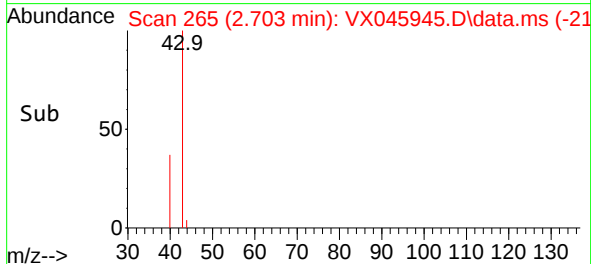
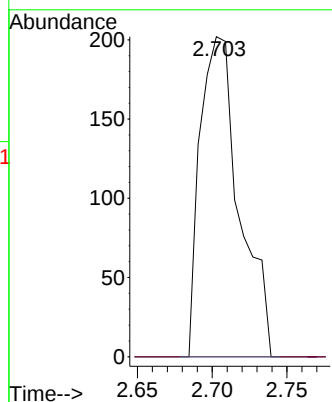
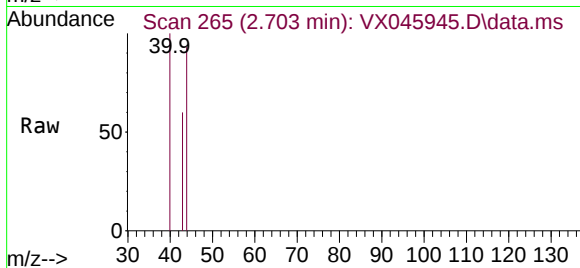




#18
Methyl Acetate
Concen: 0.363 ug/l
RT: 2.703 min Scan# 218
Delta R.T. 0.000 min
Lab File: VX045945.D
Acq: 28 Apr 2025 10:44

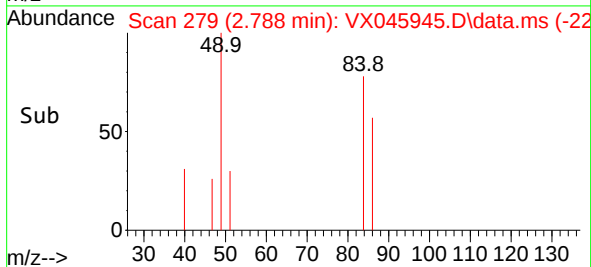
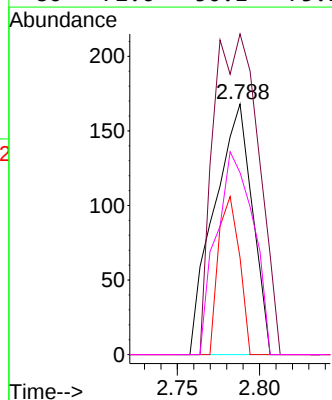
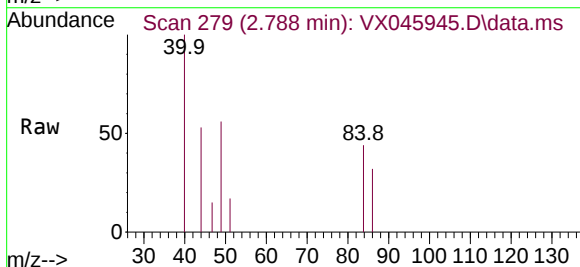
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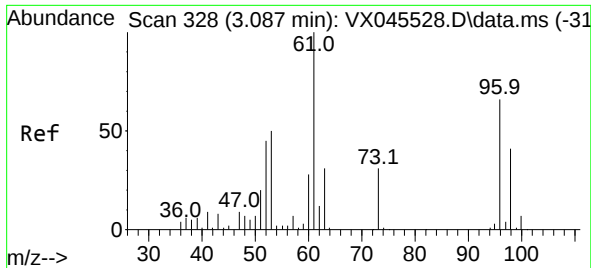
Tgt Ion: 43 Resp: 370
Ion Ratio Lower Upper
43 100
74 0.0 17.5 26.3#



#20
Methylene Chloride
Concen: 0.327 ug/l
RT: 2.788 min Scan# 279
Delta R.T. 0.006 min
Lab File: VX045945.D
Acq: 28 Apr 2025 10:44

Tgt Ion: 84 Resp: 271
Ion Ratio Lower Upper
84 100
49 128.0 107.5 161.3
51 38.7 33.0 49.6
86 72.6 50.1 75.1

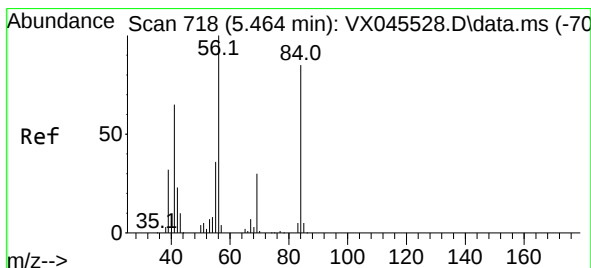
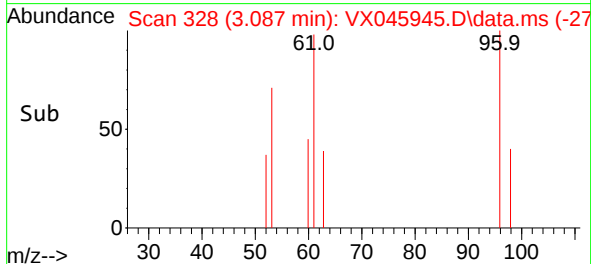
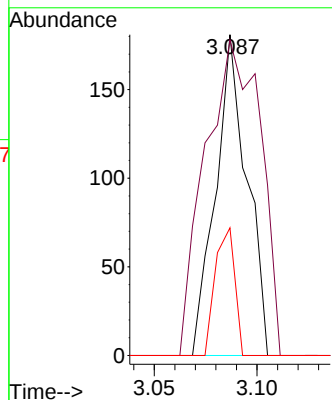
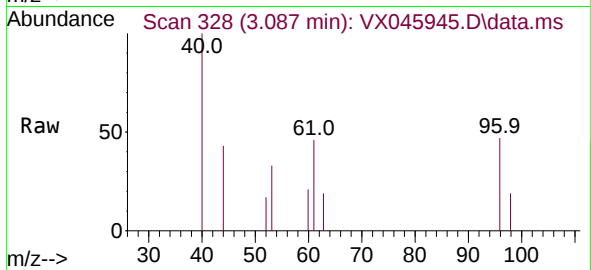




#21
trans-1,2-Dichloroethene
Concen: 0.266 ug/l
RT: 3.087 min Scan# 31
Delta R.T. 0.000 min
Lab File: VX045945.D
Acq: 28 Apr 2025 10:44

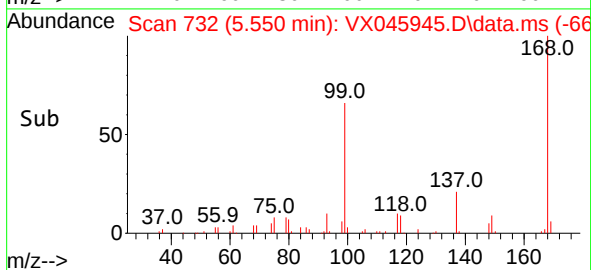
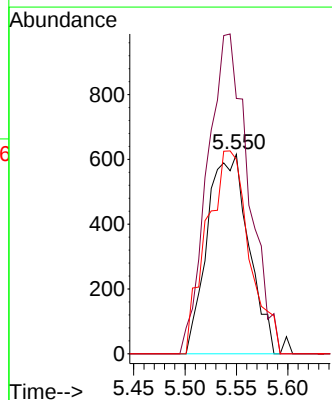
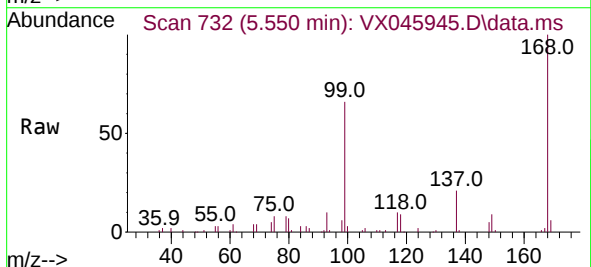
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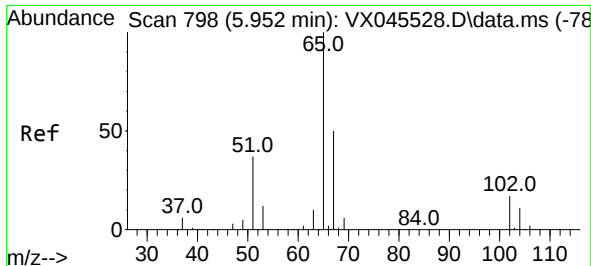
Tgt Ion: 96 Resp: 192
Ion Ratio Lower Upper
96 100
61 98.3 121.0 181.6#
98 39.8 49.7 74.5#



#31
Cyclohexane
Concen: 1.297 ug/l
RT: 5.550 min Scan# 732
Delta R.T. 0.085 min
Lab File: VX045945.D
Acq: 28 Apr 2025 10:44

Tgt Ion: 56 Resp: 1714
Ion Ratio Lower Upper
56 100
69 127.9 23.6 35.4#
84 97.4 67.7 101.5





#33

1,2-Dichloroethane-d4

Concen: 52.104 ug/l

RT: 5.946 min Scan# 798

Delta R.T. -0.006 min

Lab File: VX045945.D

Acq: 28 Apr 2025 10:44

Instrument :

MSVOA_X

ClientSampleId :

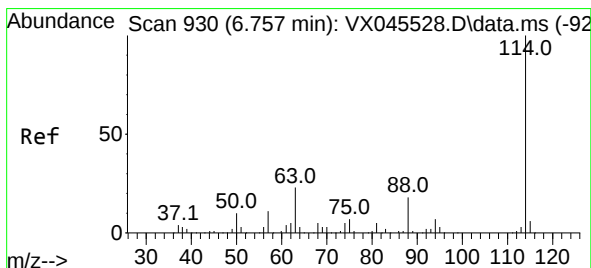
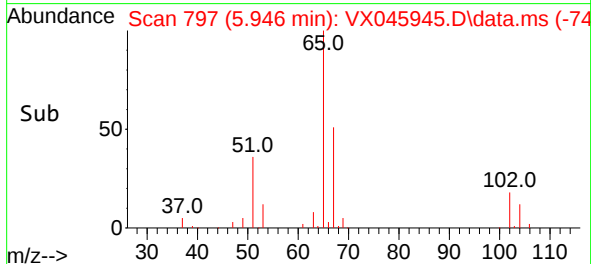
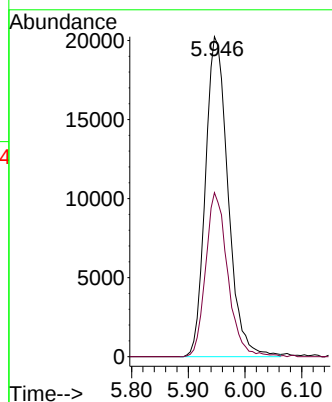
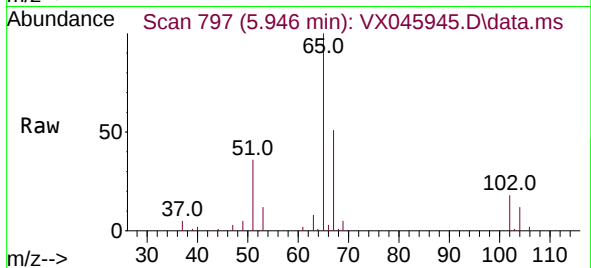
VX0428MBL01

Tgt Ion: 65 Resp: 56116

Ion Ratio Lower Upper

65 100

67 49.9 0.0 99.0



#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 6.757 min Scan# 930

Delta R.T. 0.000 min

Lab File: VX045945.D

Acq: 28 Apr 2025 10:44

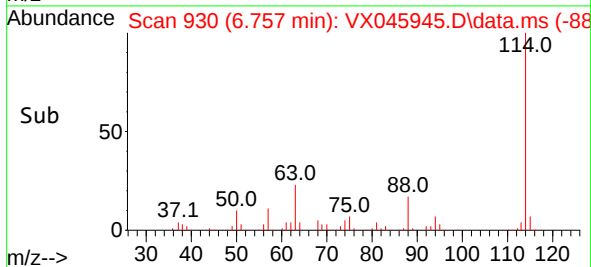
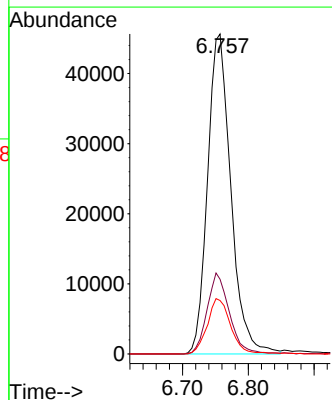
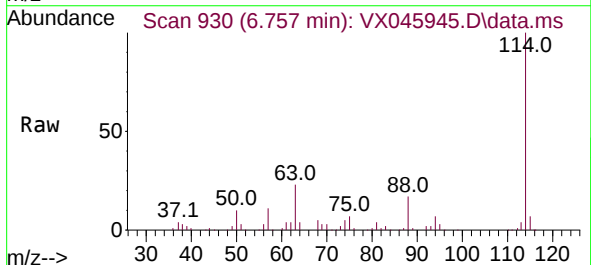
Tgt Ion: 114 Resp: 112499

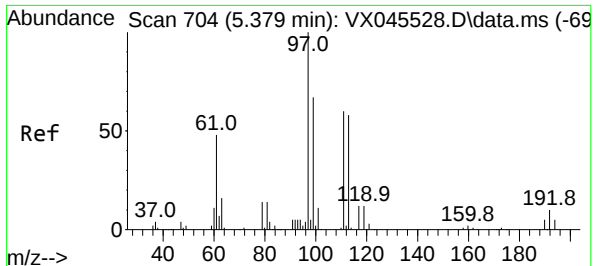
Ion Ratio Lower Upper

114 100

63 23.4 0.0 46.8

88 16.7 0.0 35.4





#35

Dibromofluoromethane

Concen: 51.958 ug/l

RT: 5.379 min Scan# 704

Delta R.T. 0.000 min

Lab File: VX045945.D

Acq: 28 Apr 2025 10:44

Instrument :

MSVOA_X

ClientSampleId :

VX0428MBL01

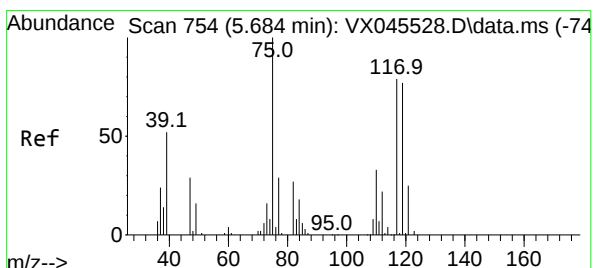
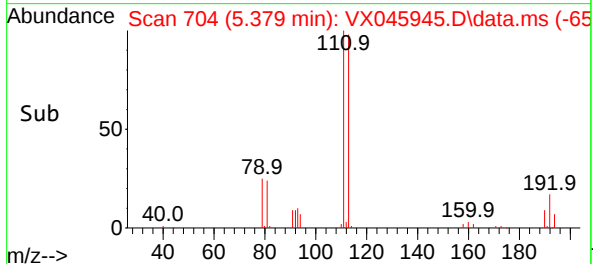
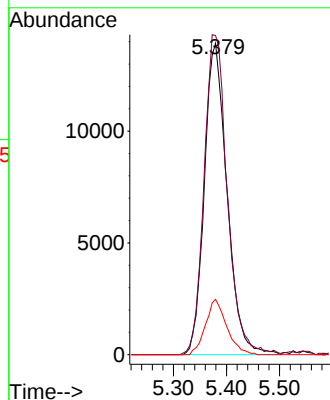
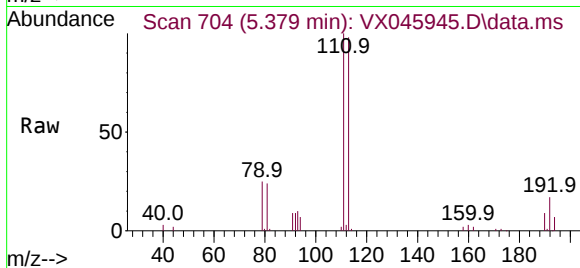
Tgt Ion:113 Resp: 41472

Ion Ratio Lower Upper

113 100

111 105.2 81.8 122.6

192 16.6 13.8 20.6



#36

1,1-Dichloropropene

Concen: 5.270 ug/l

RT: 5.544 min Scan# 731

Delta R.T. -0.140 min

Lab File: VX045945.D

Acq: 28 Apr 2025 10:44

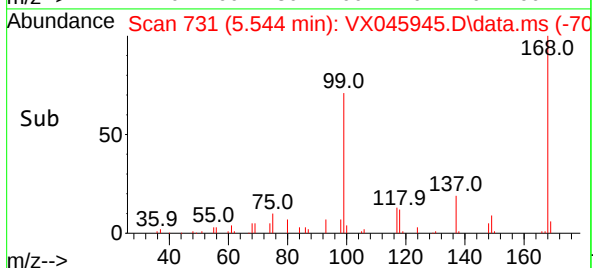
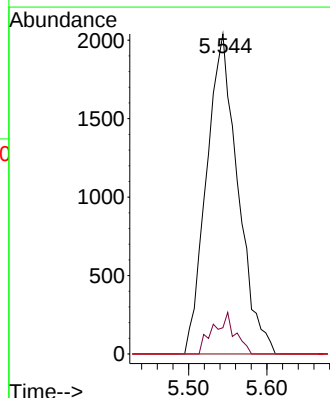
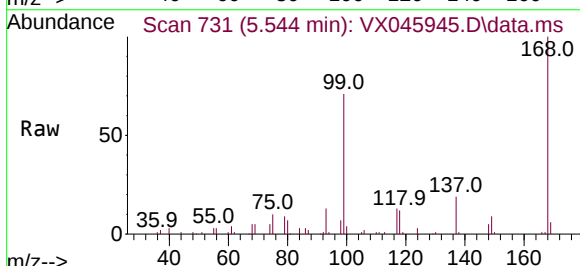
Tgt Ion: 75 Resp: 5680

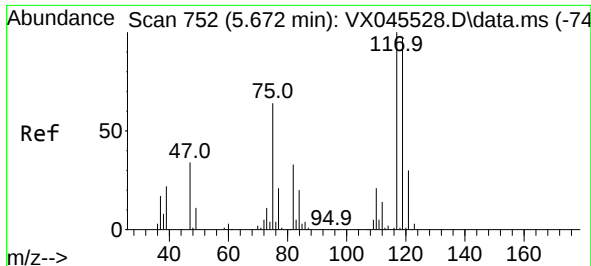
Ion Ratio Lower Upper

75 100

110 8.9 16.9 50.6#

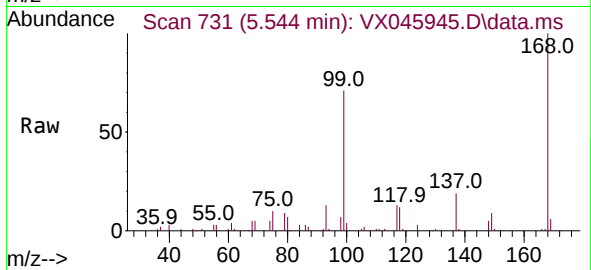
77 0.0 25.0 37.4#



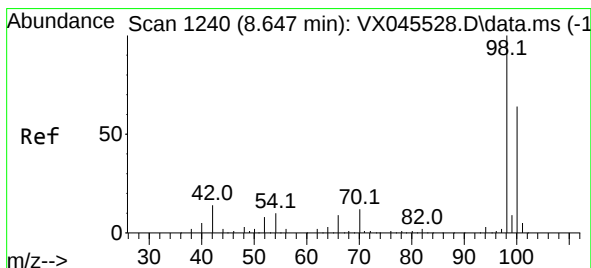
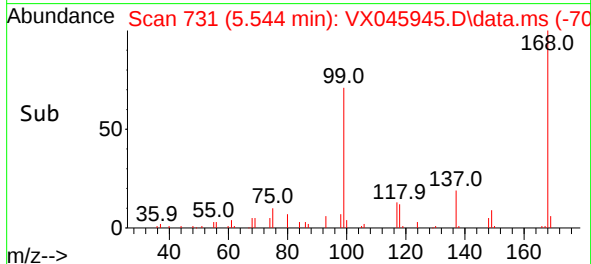
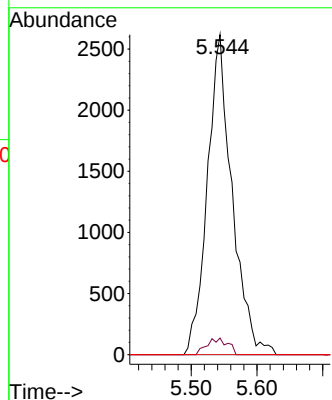


#38
Carbon Tetrachloride
Concen: 5.881 ug/l
RT: 5.544 min Scan# 71
Delta R.T. -0.128 min
Lab File: VX045945.D
Acq: 28 Apr 2025 10:44

Instrument :
MSVOA_X
ClientSampleId :
VX0428MBL01

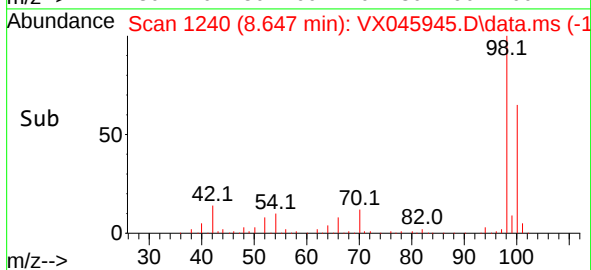
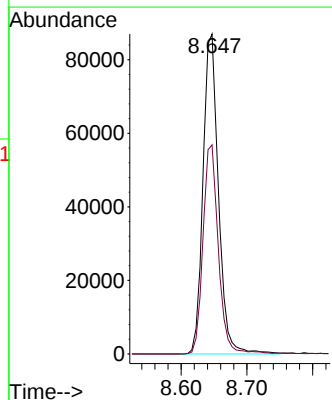
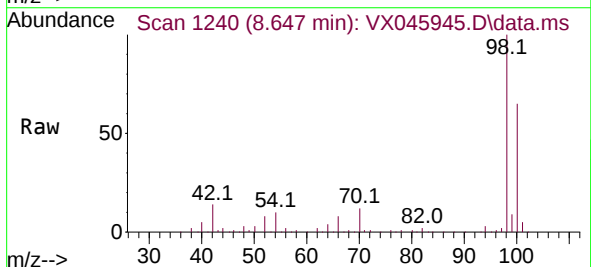


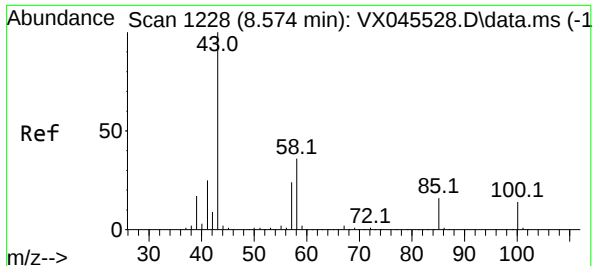
Tgt Ion:117 Resp: 6850
Ion Ratio Lower Upper
117 100
119 5.2 76.9 115.3#
121 0.0 24.2 36.2#



#50
Toluene-d8
Concen: 51.060 ug/l
RT: 8.647 min Scan# 1240
Delta R.T. 0.000 min
Lab File: VX045945.D
Acq: 28 Apr 2025 10:44

Tgt Ion: 98 Resp: 142251
Ion Ratio Lower Upper
98 100
100 65.0 52.2 78.4





#51

4-Methyl-2-Pentanone

Concen: 0.212 ug/l

RT: 8.580 min Scan# 1229

Delta R.T. 0.006 min

Lab File: VX045945.D

Acq: 28 Apr 2025 10:44

Instrument :

MSVOA_X

ClientSampleId :

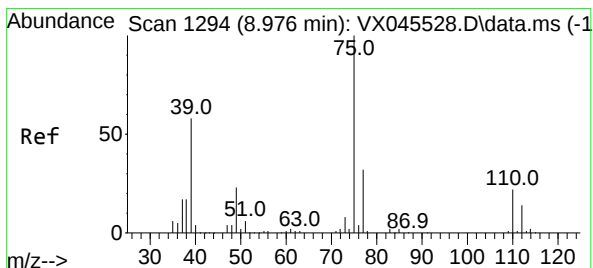
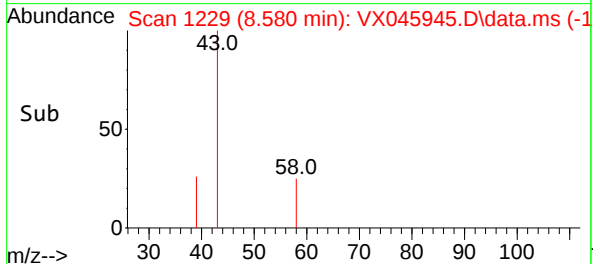
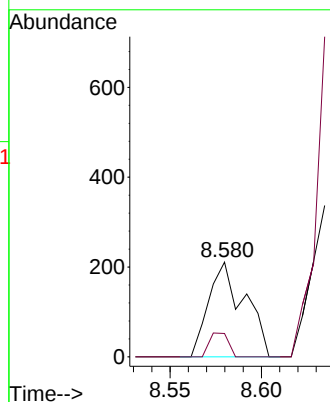
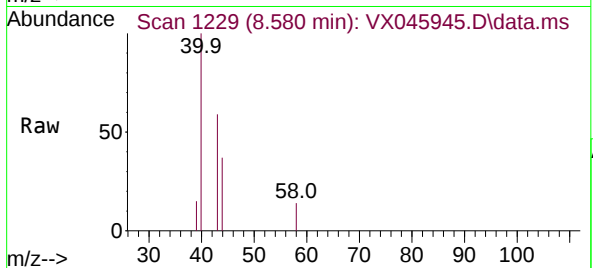
VX0428MBL01

Tgt Ion: 43 Resp: 289

Ion Ratio Lower Upper

43 100

58 0.0 28.5 42.7#



#53

t-1,3-Dichloropropene

Concen: 2.321 ug/l

RT: 9.007 min Scan# 1299

Delta R.T. 0.031 min

Lab File: VX045945.D

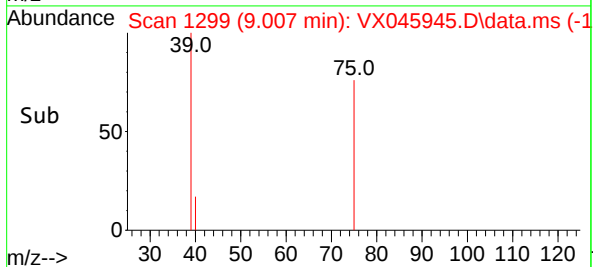
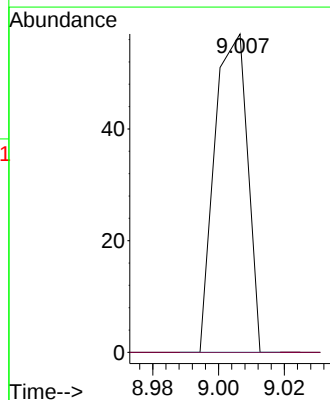
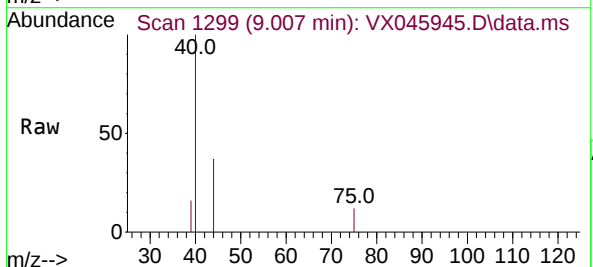
Acq: 28 Apr 2025 10:44

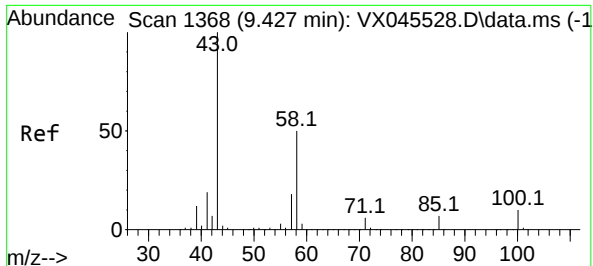
Tgt Ion: 75 Resp: 40

Ion Ratio Lower Upper

75 100

77 0.0 25.4 38.0#

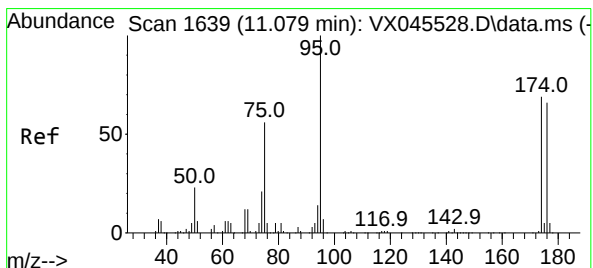
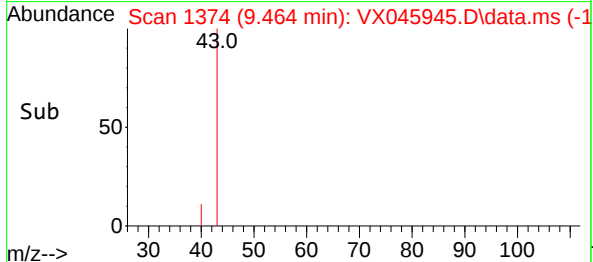
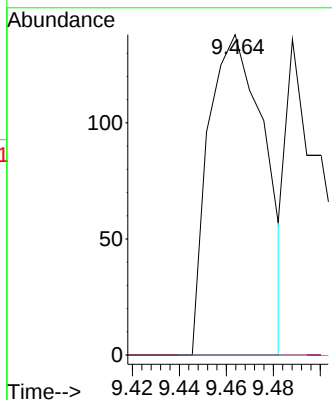
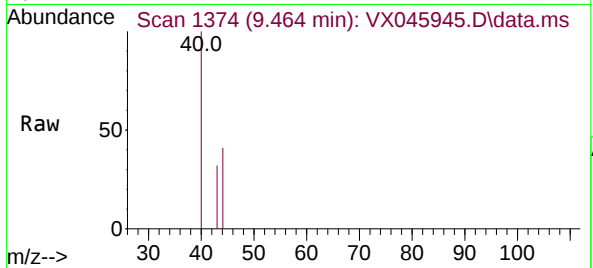




#59
2-Hexanone
Concen: 0.229 ug/l
RT: 9.464 min Scan# 11
Delta R.T. 0.037 min
Lab File: VX045945.D
Acq: 28 Apr 2025 10:44

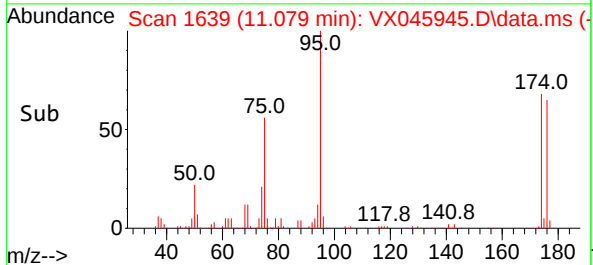
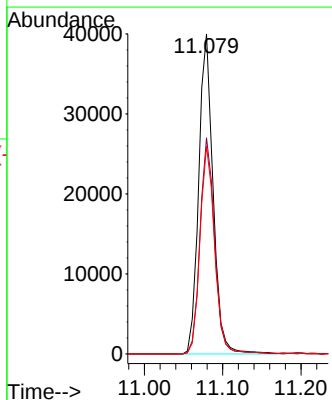
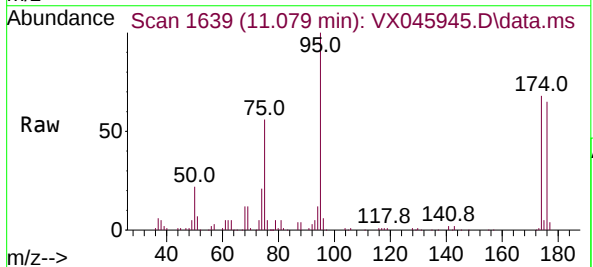
Instrument :
MSVOA_X
ClientSampleId :
VX0428MBL01

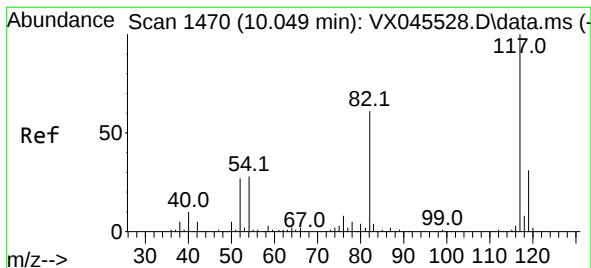
Tgt Ion: 43 Resp: 231
Ion Ratio Lower Upper
43 100
58 0.0 24.9 74.6#



#62
4-Bromofluorobenzene
Concen: 50.394 ug/l
RT: 11.079 min Scan# 1639
Delta R.T. 0.000 min
Lab File: VX045945.D
Acq: 28 Apr 2025 10:44

Tgt Ion: 95 Resp: 51139
Ion Ratio Lower Upper
95 100
174 68.4 0.0 135.8
176 66.1 0.0 131.4





#63

Chlorobenzene-d5

Concen: 50.000 ug/l

RT: 10.049 min Scan# 1470

Delta R.T. 0.000 min

Lab File: VX045945.D

Acq: 28 Apr 2025 10:44

Instrument :

MSVOA_X

ClientSampleId :

VX0428MBL01

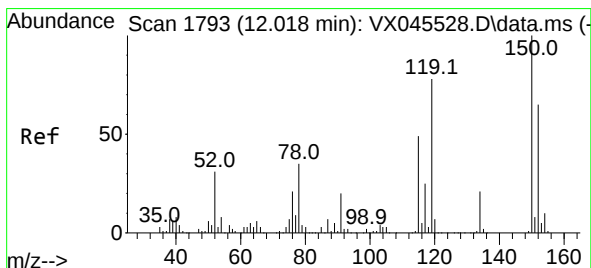
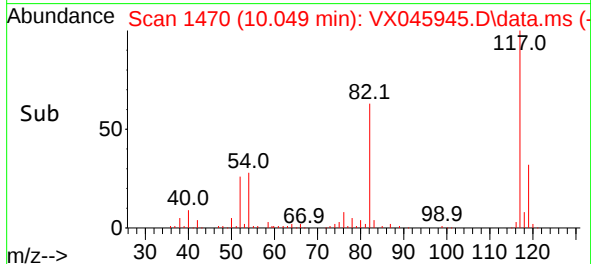
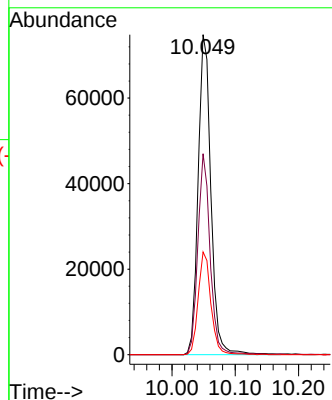
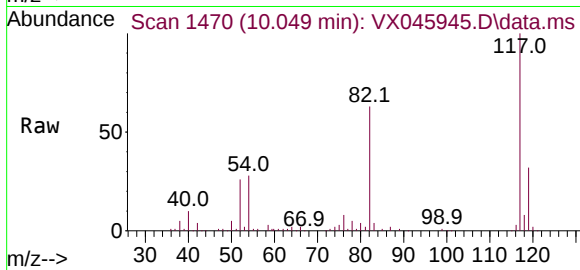
Tgt Ion:117 Resp: 105311

Ion Ratio Lower Upper

117 100

82 62.8 49.2 73.8

119 32.1 25.1 37.7



#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

RT: 12.018 min Scan# 1793

Delta R.T. 0.000 min

Lab File: VX045945.D

Acq: 28 Apr 2025 10:44

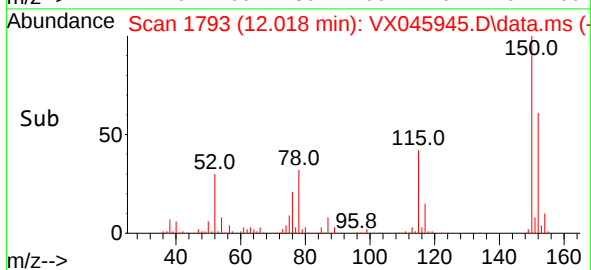
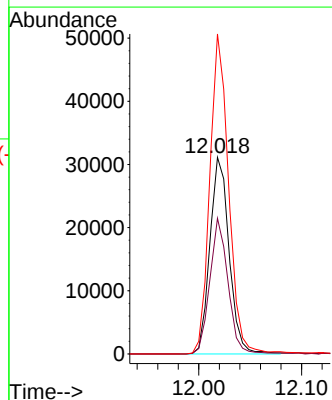
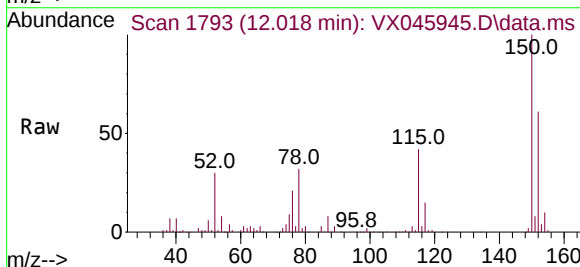
Tgt Ion:152 Resp: 40604

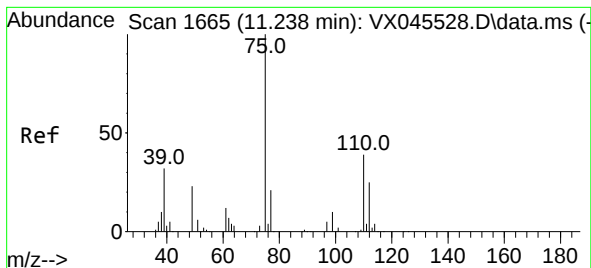
Ion Ratio Lower Upper

152 100

115 65.4 46.9 140.7

150 159.5 0.0 349.4





#76

1,2,3-Trichloropropane

Concen: 30.017 ug/l

RT: 11.079 min Scan# 1639

Delta R.T. -0.158 min

Lab File: VX045945.D

Acq: 28 Apr 2025 10:44

Instrument :

MSVOA_X

ClientSampleId :

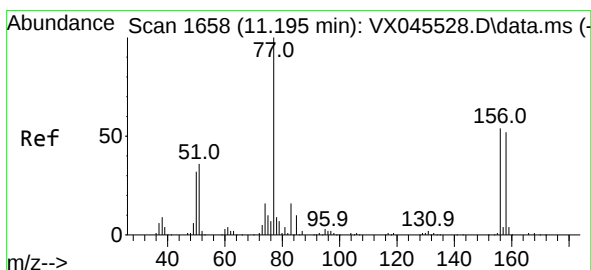
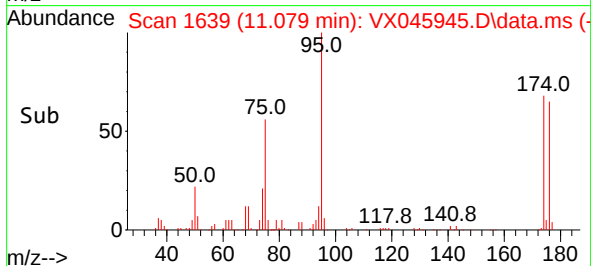
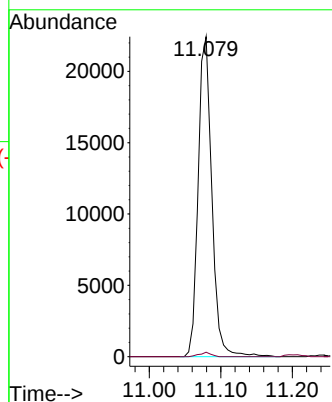
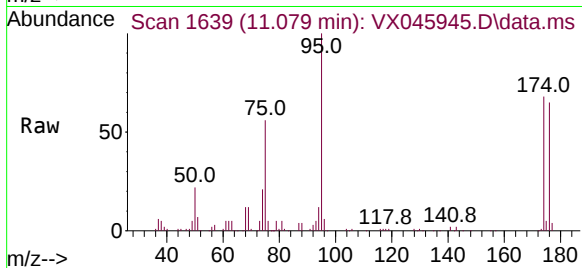
VX0428MBL01

Tgt Ion: 75 Resp: 29730

Ion Ratio Lower Upper

75 100

77 1.2 20.0 59.9#



#77

Bromobenzene

Concen: 0.210 ug/l

RT: 11.195 min Scan# 1658

Delta R.T. 0.000 min

Lab File: VX045945.D

Acq: 28 Apr 2025 10:44

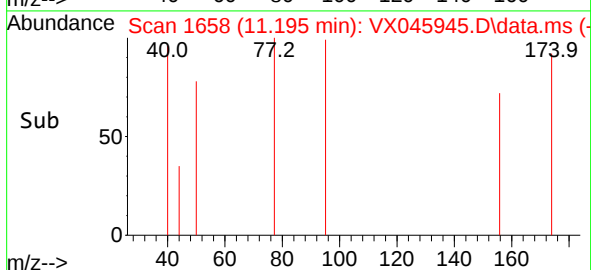
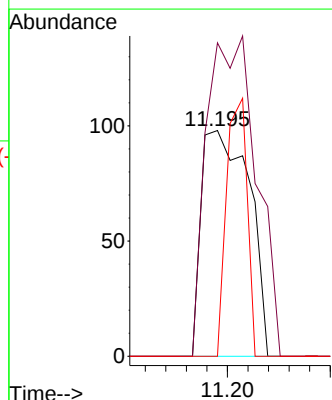
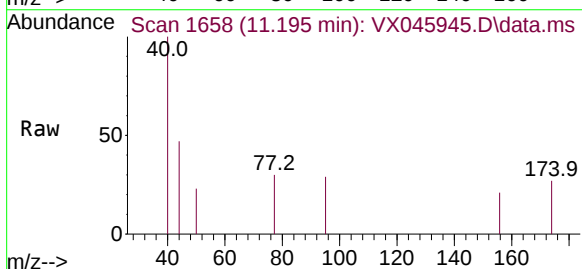
Tgt Ion: 156 Resp: 158

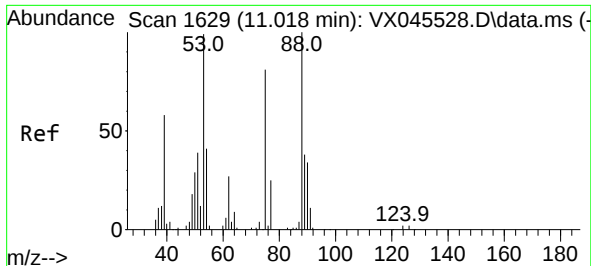
Ion Ratio Lower Upper

156 100

77 147.5 92.6 277.8

158 49.4 48.1 144.4

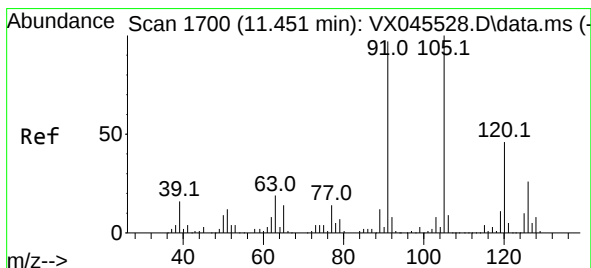
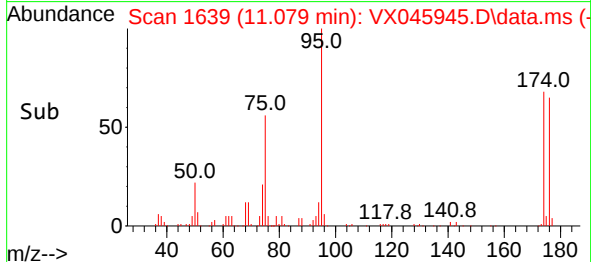
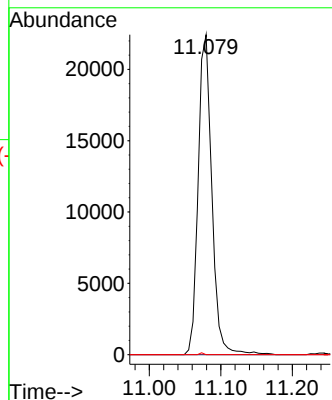
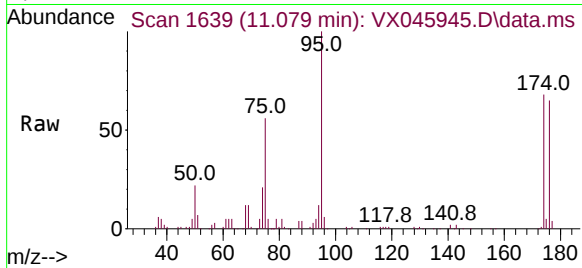




#81
trans-1,4-Dichloro-2-butene
Concen: 101.875 ug/l
RT: 11.079 min Scan# 1639
Delta R.T. 0.061 min
Lab File: VX045945.D
Acq: 28 Apr 2025 10:44

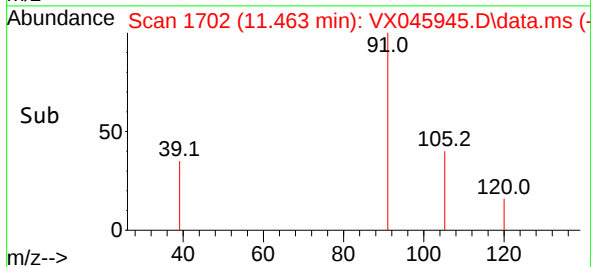
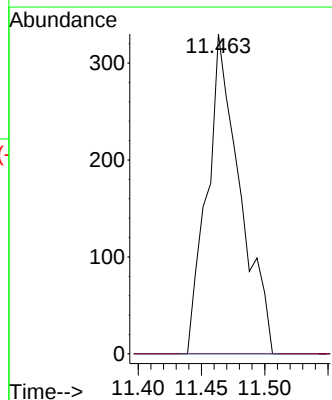
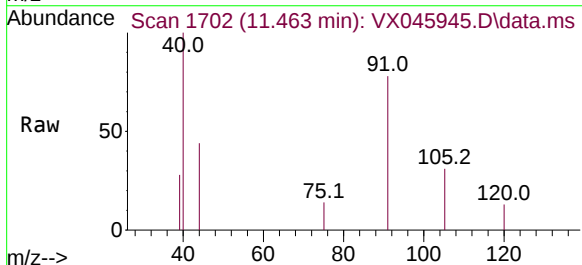
Instrument :
MSVOA_X
ClientSampleId :
VX0428MBL01

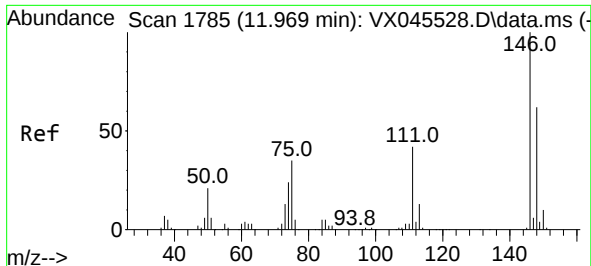
Tgt Ion: 75 Resp: 29730
Ion Ratio Lower Upper
75 100
53 0.0 101.8 152.6#
89 0.2 37.2 55.8#



#82
4-Chlorotoluene
Concen: 0.223 ug/l
RT: 11.463 min Scan# 1702
Delta R.T. 0.012 min
Lab File: VX045945.D
Acq: 28 Apr 2025 10:44

Tgt Ion: 91 Resp: 596
Ion Ratio Lower Upper
91 100
126 0.0 13.3 39.9#





#87

1,3-Dichlorobenzene

Concen: 0.286 ug/l

RT: 11.976 min Scan# 1786

Delta R.T. 0.006 min

Lab File: VX045945.D

Acq: 28 Apr 2025 10:44

Instrument :

MSVOA_X

ClientSampleId :

VX0428MBL01

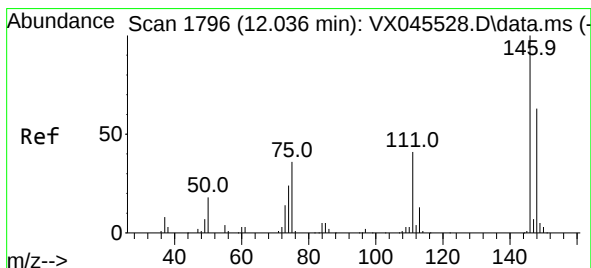
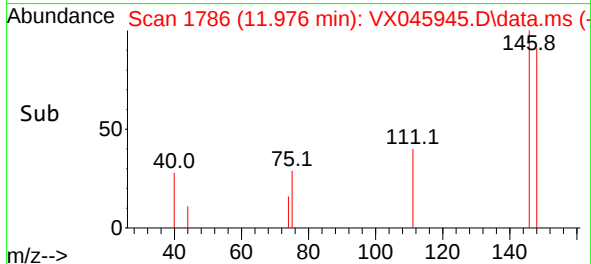
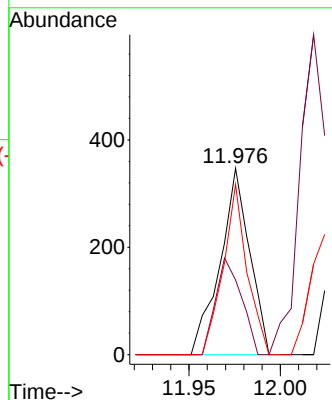
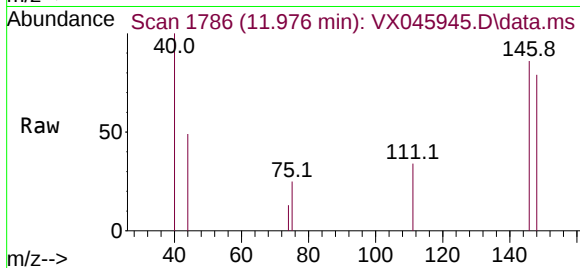
Tgt Ion:146 Resp: 391

Ion Ratio Lower Upper

146 100

111 45.0 22.2 66.6

148 73.9 31.9 95.7



#88

1,4-Dichlorobenzene

Concen: 0.282 ug/l

RT: 11.976 min Scan# 1786

Delta R.T. -0.061 min

Lab File: VX045945.D

Acq: 28 Apr 2025 10:44

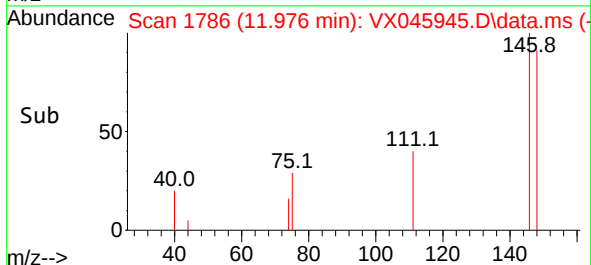
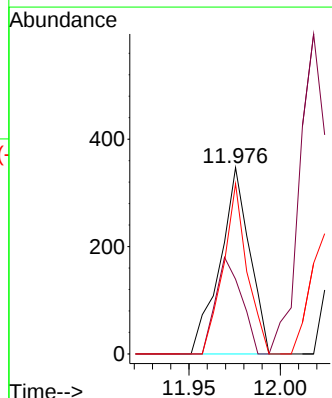
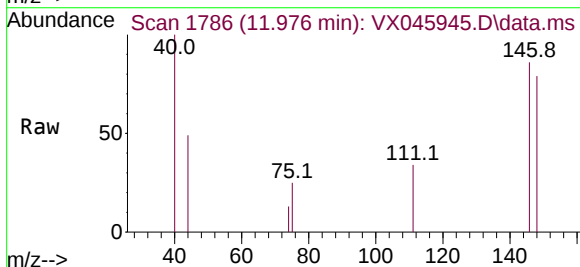
Tgt Ion:146 Resp: 391

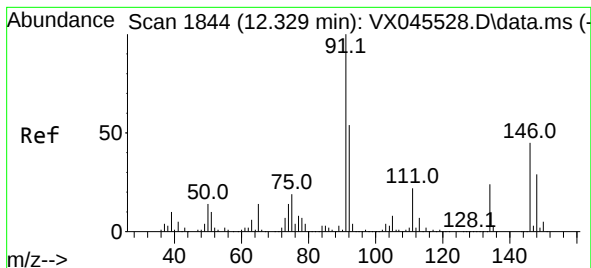
Ion Ratio Lower Upper

146 100

111 45.0 20.9 62.8

148 73.9 31.5 94.5





#89

n-Butylbenzene

Concen: 0.224 ug/l

RT: 12.341 min Scan# 1846

Delta R.T. 0.012 min

Lab File: VX045945.D

Acq: 28 Apr 2025 10:44

Instrument :

MSVOA_X

ClientSampleId :

VX0428MBL01

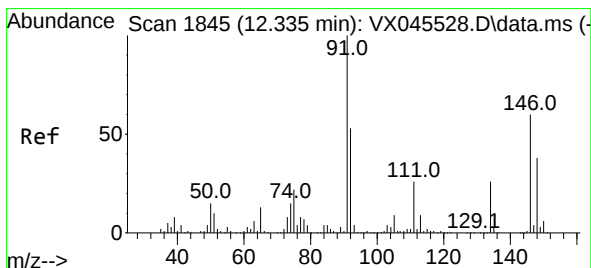
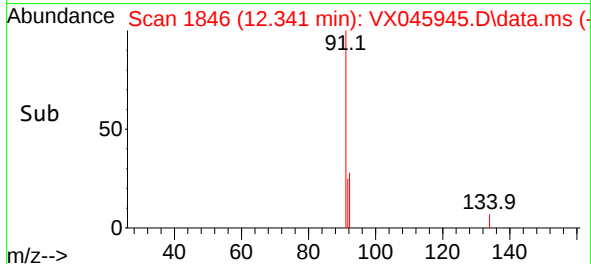
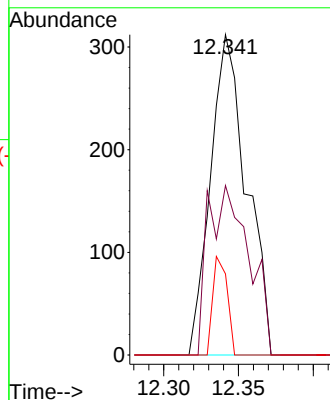
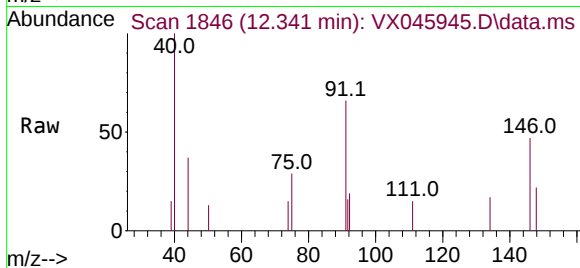
Tgt Ion: 91 Resp: 524

Ion Ratio Lower Upper

91 100

92 59.9 26.9 80.6

134 12.2 11.9 35.7



#91

1,2-Dichlorobenzene

Concen: 0.256 ug/l

RT: 12.347 min Scan# 1847

Delta R.T. 0.012 min

Lab File: VX045945.D

Acq: 28 Apr 2025 10:44

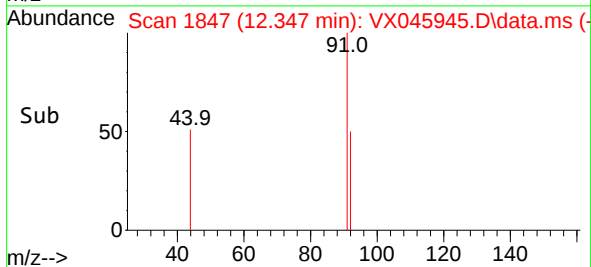
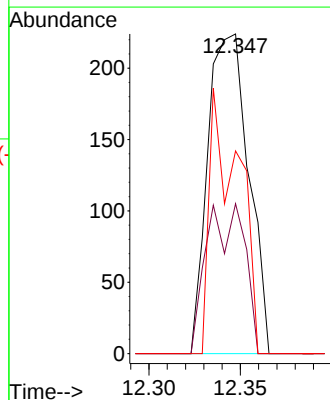
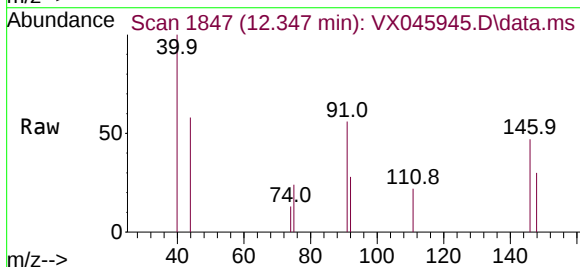
Tgt Ion:146 Resp: 348

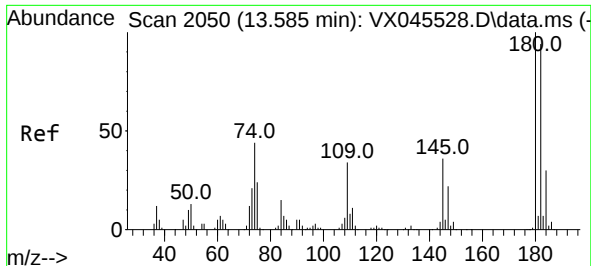
Ion Ratio Lower Upper

146 100

111 43.4 22.9 68.8

148 58.9 31.9 95.5

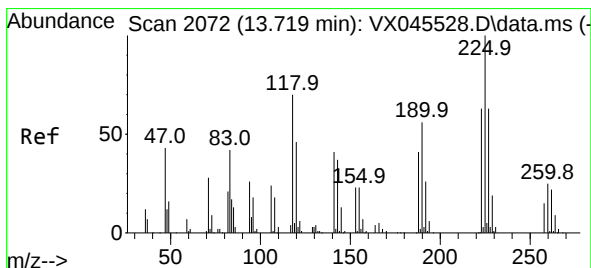
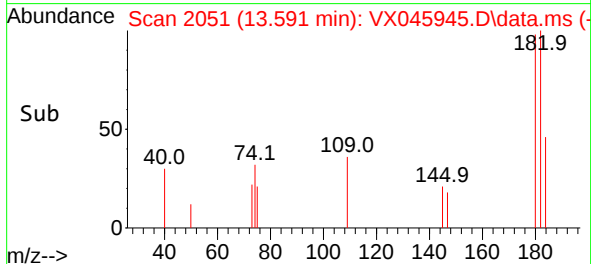
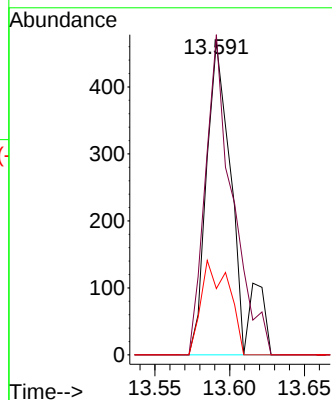
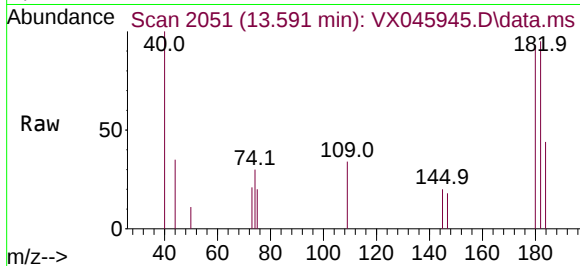




#93
 1,2,4-Trichlorobenzene
 Concen: 0.770 ug/l
 RT: 13.591 min Scan# 2051
 Delta R.T. 0.006 min
 Lab File: VX045945.D
 Acq: 28 Apr 2025 10:44

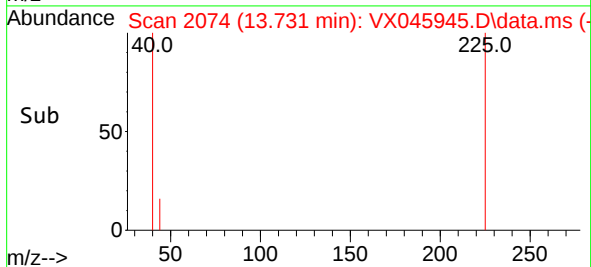
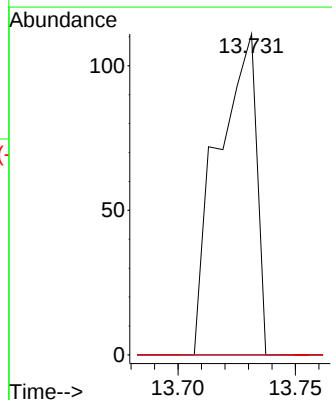
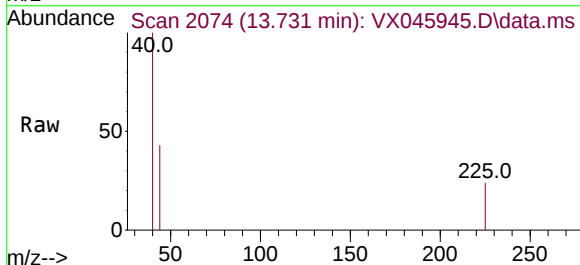
Instrument :
 MSVOA_X
 ClientSampleId :
 VX0428MBL01

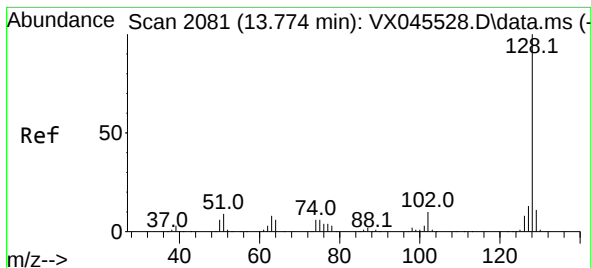
Tgt Ion:180 Resp: 583
 Ion Ratio Lower Upper
 180 100
 182 103.4 47.9 143.6
 145 31.0 17.9 53.8



#94
 Hexachlorobutadiene
 Concen: 0.389 ug/l
 RT: 13.731 min Scan# 2074
 Delta R.T. 0.012 min
 Lab File: VX045945.D
 Acq: 28 Apr 2025 10:44

Tgt Ion:225 Resp: 127
 Ion Ratio Lower Upper
 225 100
 223 0.0 31.1 93.3#
 227 0.0 32.2 96.6#





#95

Naphthalene

Concen: 1.331 ug/l

RT: 13.780 min Scan# 2081

Delta R.T. 0.006 min

Lab File: VX045945.D

Acq: 28 Apr 2025 10:44

Instrument :

MSVOA_X

ClientSampleId :

VX0428MBL01

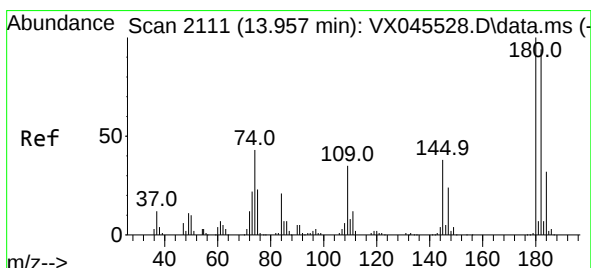
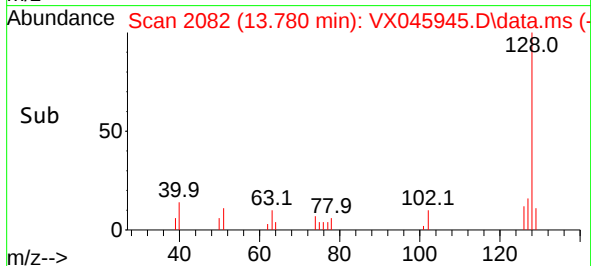
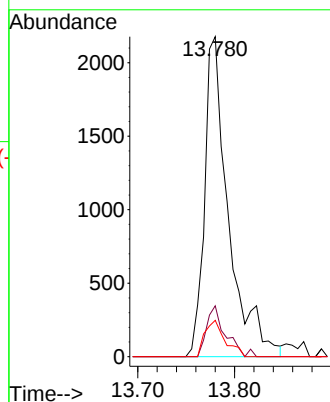
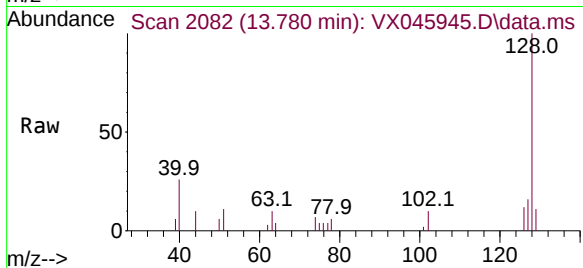
Tgt Ion:128 Resp: 3750

Ion Ratio Lower Upper

128 100

127 12.6 10.3 15.5

129 9.5 8.6 12.8



#96

1,2,3-Trichlorobenzene

Concen: 0.911 ug/l

RT: 13.963 min Scan# 2112

Delta R.T. 0.006 min

Lab File: VX045945.D

Acq: 28 Apr 2025 10:44

Tgt Ion:180 Resp: 722

Ion Ratio Lower Upper

180 100

182 116.8 47.3 141.8

145 26.9 18.2 54.6

