

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX082125\
 Data File : VX047460.D
 Acq On : 21 Aug 2025 11:39
 Operator : JC/MD
 Sample : Q2869-04 10X
 Misc : 5.0mL/MSVOA_X/WATER
 ALS Vial : 7 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :

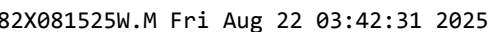
Quant Time: Aug 22 03:42:19 2025
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X081525W.M
 Quant Title : SW846 8260
 QLast Update : Mon Aug 18 04:18:28 2025
 Response via : Initial Calibration

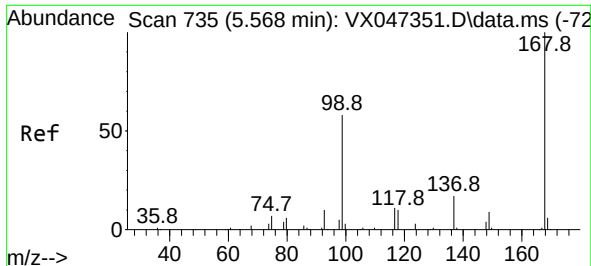
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)

Internal Standards						
1) Pentafluorobenzene	5.562	168	209250	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	6.769	114	413436	50.000	ug/l	0.00
63) Chlorobenzene-d5	10.055	117	399927	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.018	152	194035	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	5.964	65	152914	52.215	ug/l	0.00
Spiked Amount	50.000	Range	78 - 117	Recovery	= 104.440%	
35) Dibromofluoromethane	5.397	113	128659	47.949	ug/l	0.00
Spiked Amount	50.000	Range	75 - 124	Recovery	= 95.900%	
50) Toluene-d8	8.653	98	461732	48.144	ug/l	0.00
Spiked Amount	50.000	Range	92 - 112	Recovery	= 96.280%	
62) 4-Bromofluorobenzene	11.079	95	188755	53.334	ug/l	0.00
Spiked Amount	50.000	Range	83 - 123	Recovery	= 106.660%	
Target Compounds						
					Qvalue	
3) Chloromethane	1.307	50	670	0.279	ug/l #	41
4) Vinyl Chloride	1.392	62	3369	1.119	ug/l #	66
5) Bromomethane	1.648	94	823	0.677	ug/l #	70
6) Chloroethane	1.947	64	1511	0.820	ug/l #	44
9) 1,1,2-Trichlorotrifluo...	2.349	101	23528	9.104	ug/l	98
10) Methyl Iodide	2.483	142	4730	1.068	ug/l #	72
11) Tert butyl alcohol	2.965	59	576	2.261	ug/l #	72
12) 1,1-Dichloroethene	2.337	96	1737	0.659	ug/l #	95
13) Acrolein	2.258	56	157	0.292	ug/l #	32
16) Acetone	2.404	43	2290	2.080	ug/l #	86
17) Carbon Disulfide	2.532	76	3761	0.473	ug/l #	92
20) Methylene Chloride	2.806	84	690	0.237	ug/l	94
21) trans-1,2-Dichloroethene	3.111	96	1910	0.683	ug/l #	73
24) 1,1-Dichloroethane	3.630	63	2890	0.565	ug/l #	95
27) cis-1,2-Dichloroethene	4.501	96	476083	146.176	ug/l	90
29) Tetrahydrofuran	5.080	42	531	0.570	ug/l #	54
31) Cyclohexane	5.556	56	4589	0.974	ug/l #	12
36) 1,1-Dichloropropene	5.562	75	17403	4.109	ug/l #	50
38) Carbon Tetrachloride	5.568	117	21628	4.673	ug/l #	15
44) Trichloroethene	7.129	130	609435	187.731	ug/l	100
58) 2-Chloroethyl Vinyl ether	8.305	63	171	8.434	ug/l #	46
64) Tetrachloroethene	9.275	164	4063	1.405	ug/l #	84
76) 1,2,3-Trichloropropane	11.079	75	95421	26.813	ug/l #	39
81) trans-1,4-Dichloro-2-b...	11.079	75	95421	106.081	ug/l #	7
89) n-Butylbenzene	12.335	91	3334	0.274	ug/l	97
93) 1,2,4-Trichlorobenzene	13.591	180	1870	0.415	ug/l	95
94) Hexachlorobutadiene	13.725	225	2056	1.282	ug/l	88
95) Naphthalene	13.780	128	11053	0.858	ug/l	95
96) 1,2,3-Trichlorobenzene	13.963	180	2060	0.485	ug/l	92

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

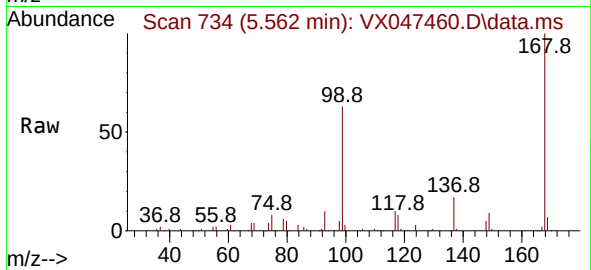
Quant Time: Aug 22 03:42:19 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X081525W.M
Quant Title : SW846 8260
QLast Update : Mon Aug 18 04:18:28 2025
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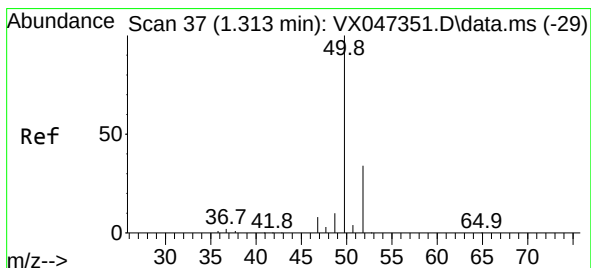
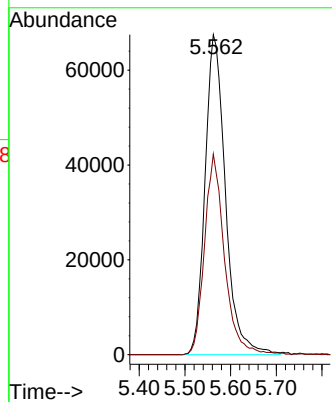
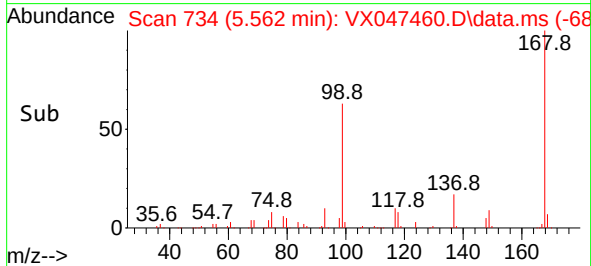


#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 5.562 min Scan# 71
Delta R.T. -0.006 min
Lab File: VX047460.D
Acq: 21 Aug 2025 11:39

Instrument :
MSVOA_X
ClientSampleId :

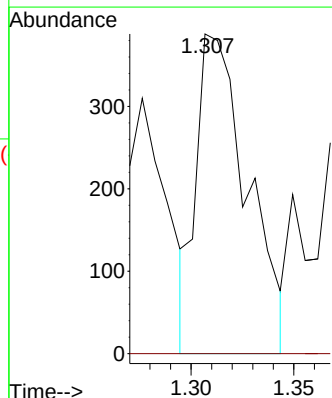
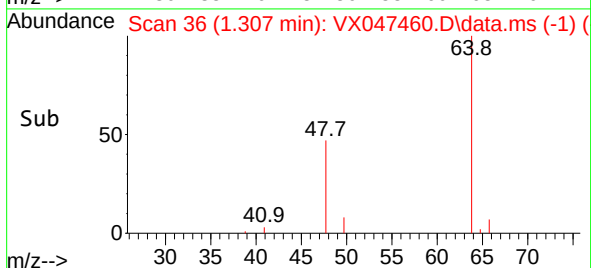
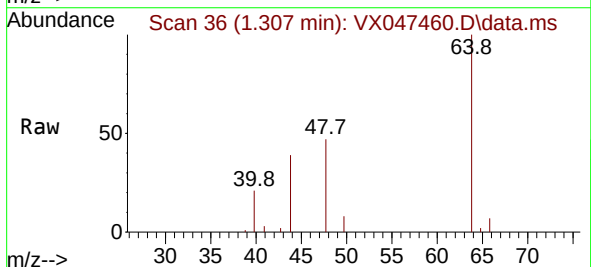


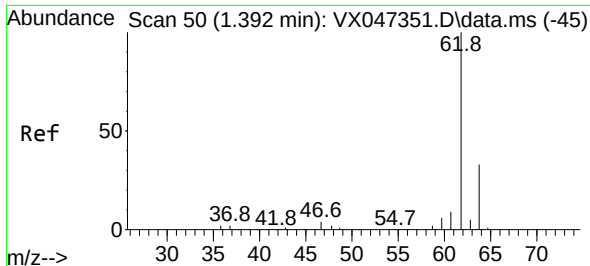
Tgt Ion:168 Resp: 209250
Ion Ratio Lower Upper
168 100
99 62.7 47.9 71.9



#3
Chloromethane
Concen: 0.279 ug/l
RT: 1.307 min Scan# 36
Delta R.T. -0.006 min
Lab File: VX047460.D
Acq: 21 Aug 2025 11:39

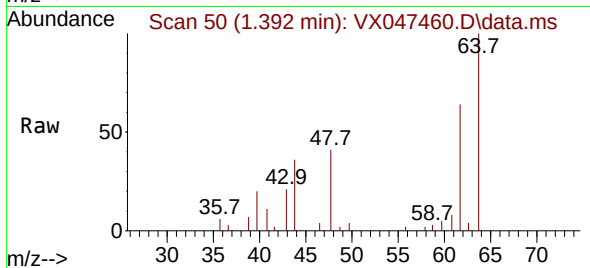
Tgt Ion: 50 Resp: 670
Ion Ratio Lower Upper
50 100
52 0.0 27.0 40.4#



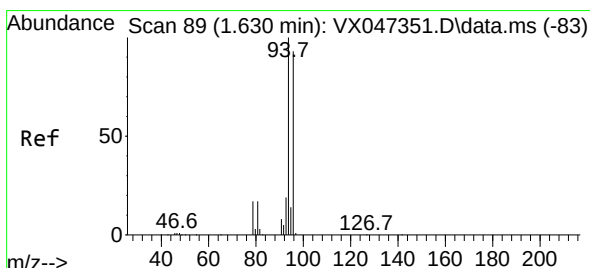
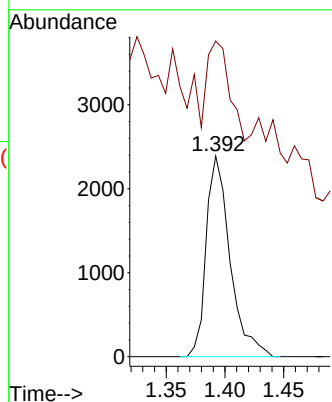
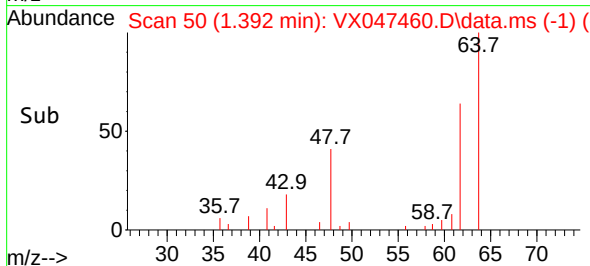


#4
 Vinyl Chloride
 Concen: 1.119 ug/l
 RT: 1.392 min Scan# 50
 Delta R.T. 0.000 min
 Lab File: VX047460.D
 Acq: 21 Aug 2025 11:39

Instrument :
 MSVOA_X
 ClientSampleId :

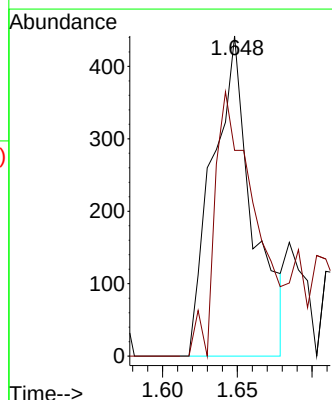
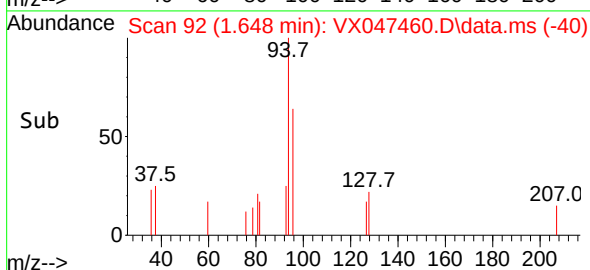
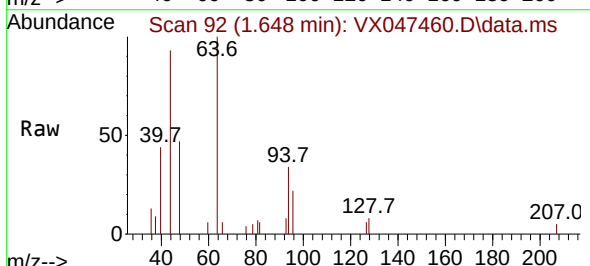


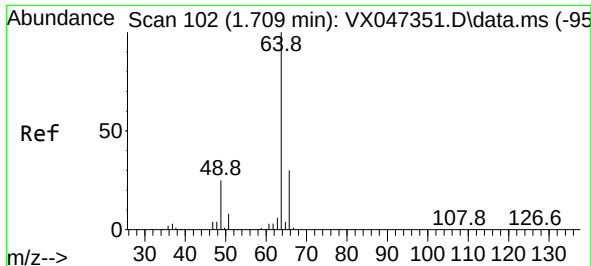
Tgt Ion: 62 Resp: 3369
 Ion Ratio Lower Upper
 62 100
 64 52.3 26.5 39.7#



#5
 Bromomethane
 Concen: 0.677 ug/l
 RT: 1.648 min Scan# 92
 Delta R.T. 0.019 min
 Lab File: VX047460.D
 Acq: 21 Aug 2025 11:39

Tgt Ion: 94 Resp: 823
 Ion Ratio Lower Upper
 94 100
 96 64.3 74.7 112.1#

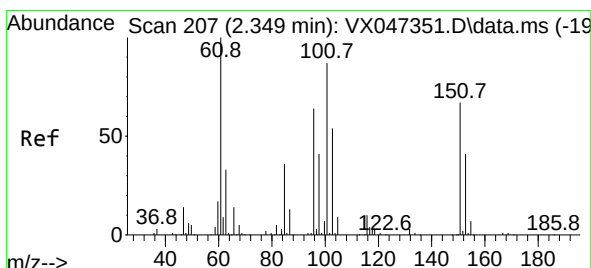
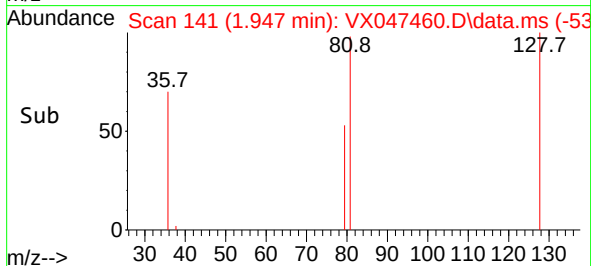
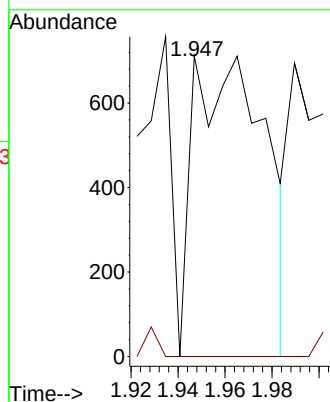
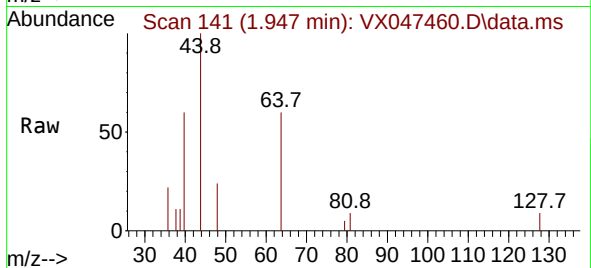




#6
Chloroethane
Concen: 0.820 ug/l
RT: 1.947 min Scan# 141
Delta R.T. 0.238 min
Lab File: VX047460.D
Acq: 21 Aug 2025 11:39

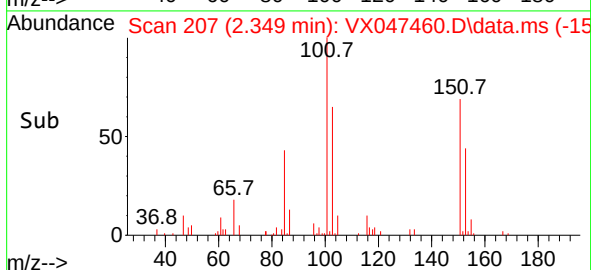
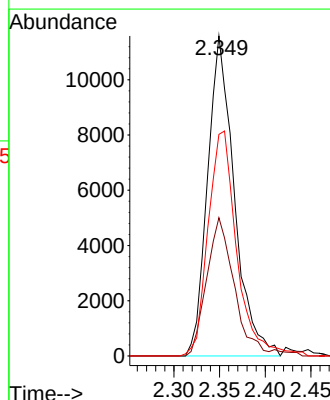
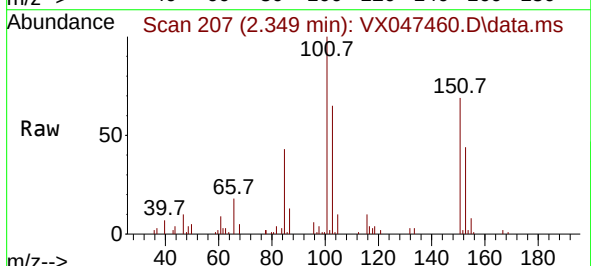
Instrument :
MSVOA_X
ClientSampleId :

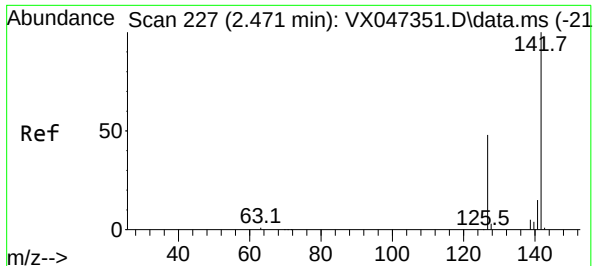
Tgt Ion: 64 Resp: 1511
Ion Ratio Lower Upper
64 100
66 0.0 24.4 36.6#



#9
1,1,2-Trichlorotrifluoroethane
Concen: 9.104 ug/l
RT: 2.349 min Scan# 207
Delta R.T. 0.000 min
Lab File: VX047460.D
Acq: 21 Aug 2025 11:39

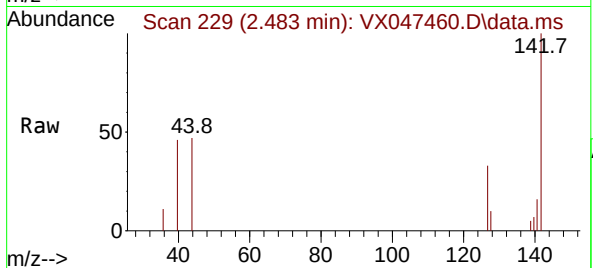
Tgt Ion:101 Resp: 23528
Ion Ratio Lower Upper
101 100
85 44.3 34.3 51.5
151 75.6 59.2 88.8



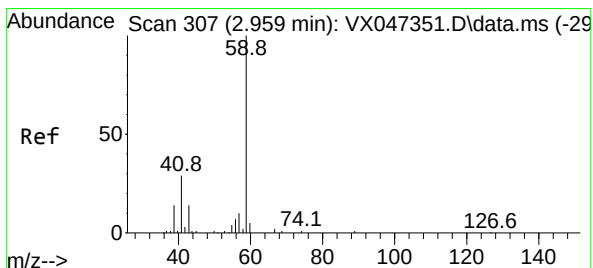
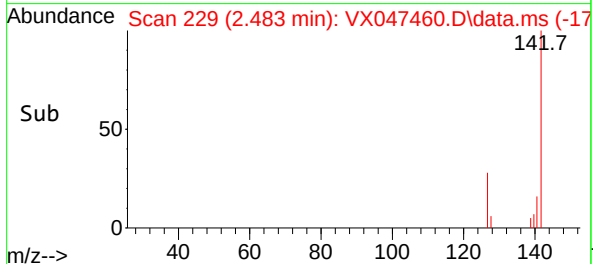
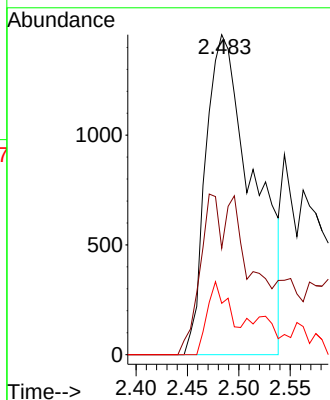


#10
Methyl Iodide
Concen: 1.068 ug/l
RT: 2.483 min Scan# 21
Delta R.T. 0.012 min
Lab File: VX047460.D
Acq: 21 Aug 2025 11:39

Instrument :
MSVOA_X
ClientSampleId :

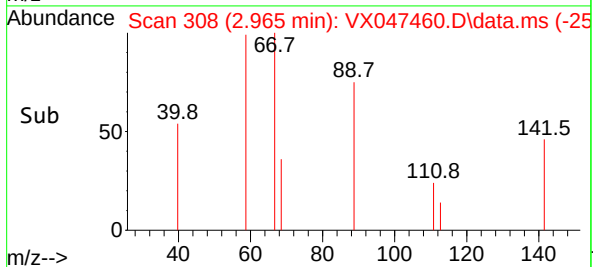
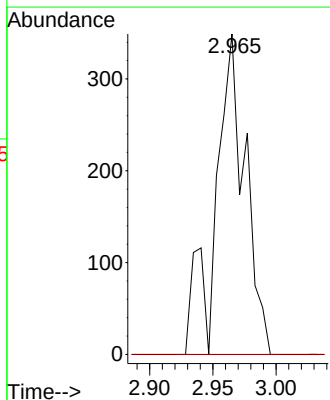
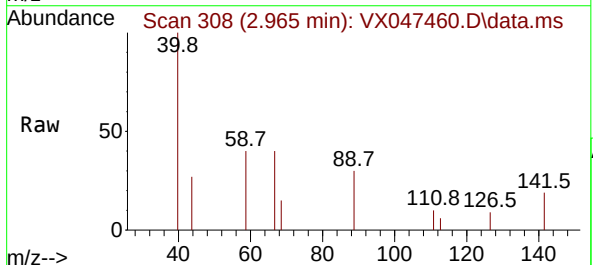


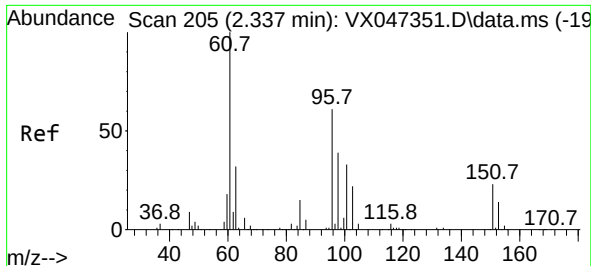
Tgt Ion:142 Resp: 4730
Ion Ratio Lower Upper
142 100
127 22.3 36.1 54.1#
141 11.0 11.1 16.7#



#11
Tert butyl alcohol
Concen: 2.261 ug/l
RT: 2.965 min Scan# 308
Delta R.T. 0.006 min
Lab File: VX047460.D
Acq: 21 Aug 2025 11:39

Tgt Ion: 59 Resp: 576
Ion Ratio Lower Upper
59 100
57 0.0 8.3 12.5#





#12

1,1-Dichloroethene

Concen: 0.659 ug/l

RT: 2.337 min Scan# 205

Delta R.T. 0.000 min

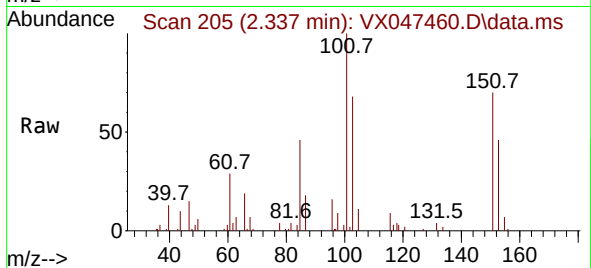
Lab File: VX047460.D

Acq: 21 Aug 2025 11:39

Instrument :

MSVOA_X

ClientSampleId :



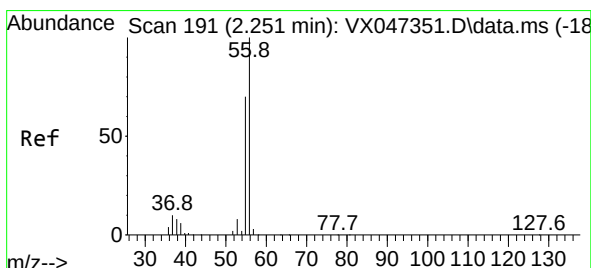
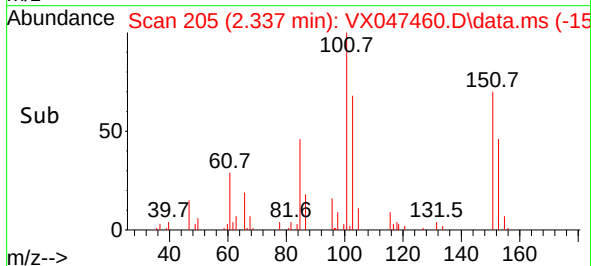
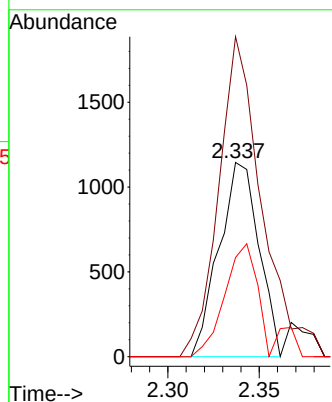
Tgt Ion: 96 Resp: 1737

Ion Ratio Lower Upper

96 100

61 164.8 132.2 198.2

98 51.1 51.2 76.8#



#13

Acrolein

Concen: 0.292 ug/l

RT: 2.258 min Scan# 192

Delta R.T. 0.006 min

Lab File: VX047460.D

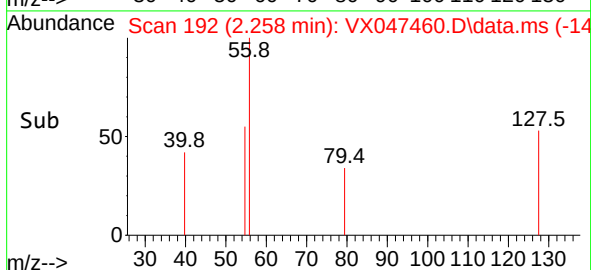
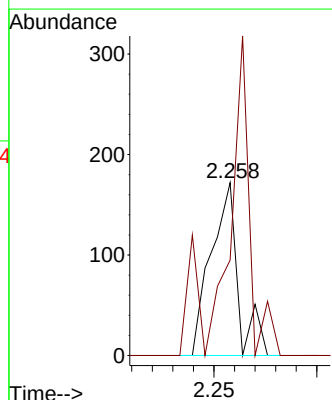
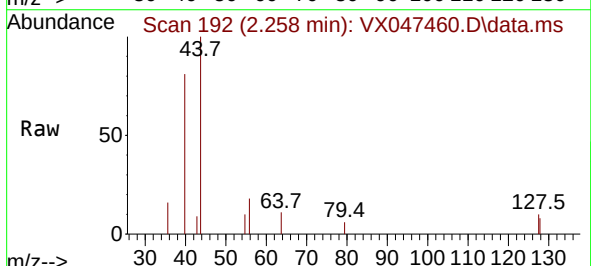
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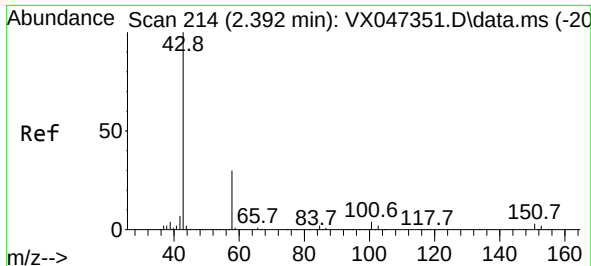
Tgt Ion: 56 Resp: 157

Ion Ratio Lower Upper

56 100

55 124.8 55.5 83.3#

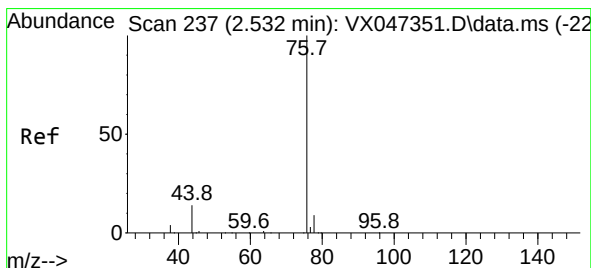
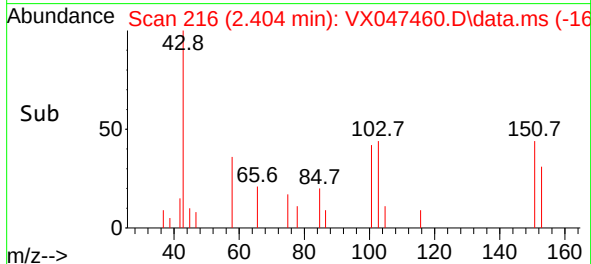
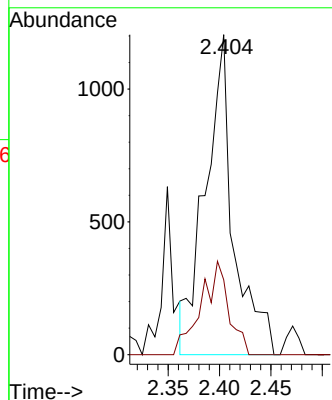
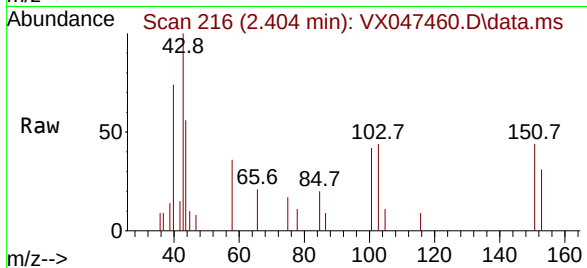




#16
Acetone
Concen: 2.080 ug/l
RT: 2.404 min Scan# 216
Delta R.T. 0.012 min
Lab File: VX047460.D
Acq: 21 Aug 2025 11:39

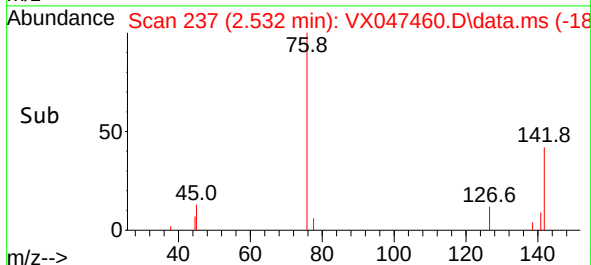
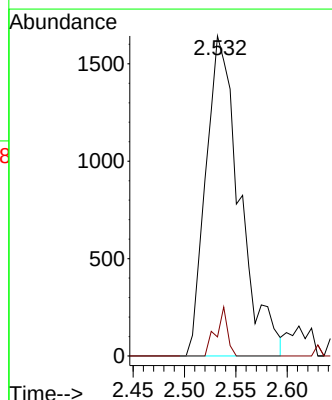
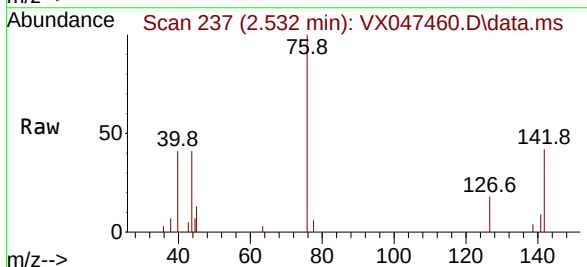
Instrument :
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ClientSampleId :

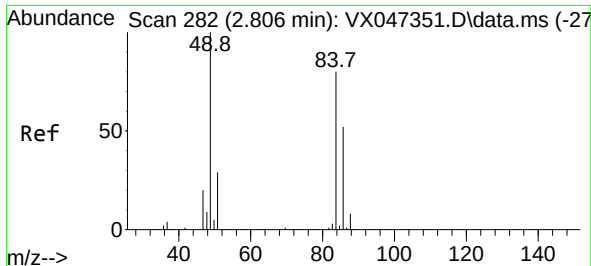
Tgt Ion: 43 Resp: 2290
Ion Ratio Lower Upper
43 100
58 23.4 24.8 37.2#



#17
Carbon Disulfide
Concen: 0.473 ug/l
RT: 2.532 min Scan# 237
Delta R.T. 0.000 min
Lab File: VX047460.D
Acq: 21 Aug 2025 11:39

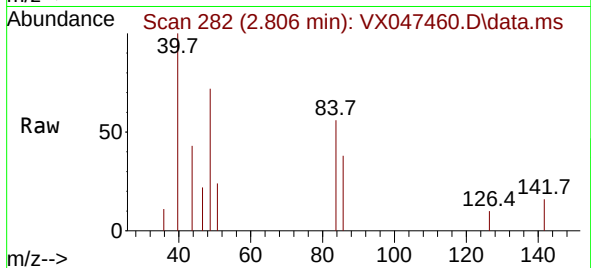
Tgt Ion: 76 Resp: 3761
Ion Ratio Lower Upper
76 100
78 6.0 7.2 10.8#





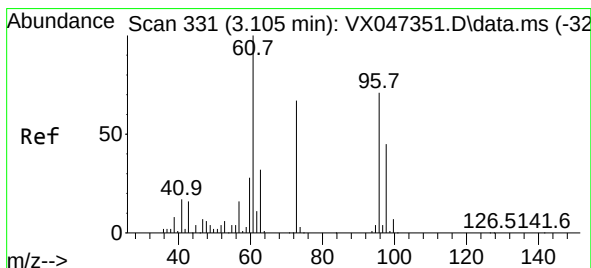
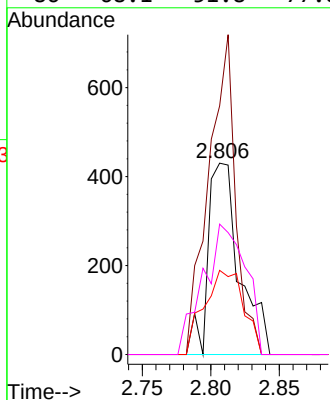
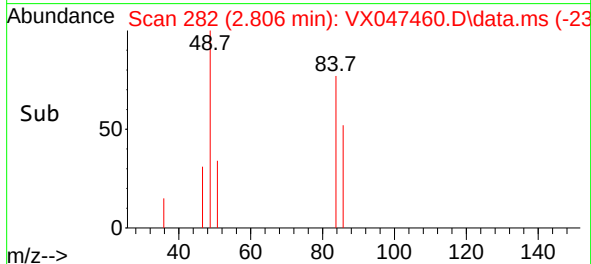
#20
Methylene Chloride
Concen: 0.237 ug/l
RT: 2.806 min Scan# 21
Delta R.T. 0.000 min
Lab File: VX047460.D
Acq: 21 Aug 2025 11:39

Instrument :
MSVOA_X
ClientSampleId :

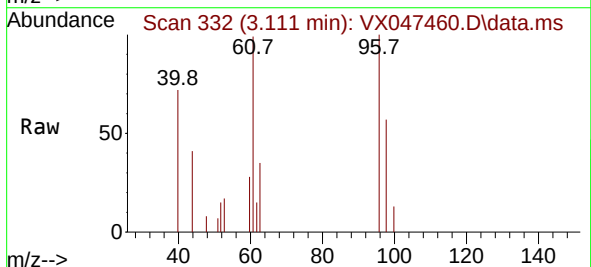


Tgt Ion: 84 Resp: 690

Ion	Ratio	Lower	Upper
84	100		
49	130.0	100.1	150.1
51	44.0	29.5	44.3
86	68.1	51.8	77.8

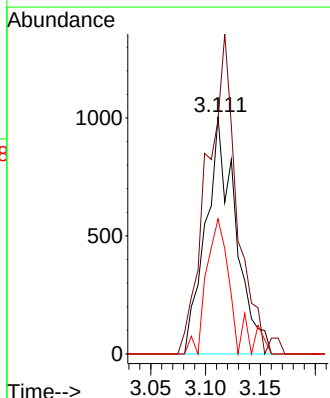
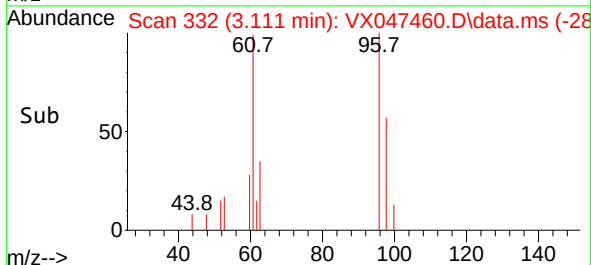


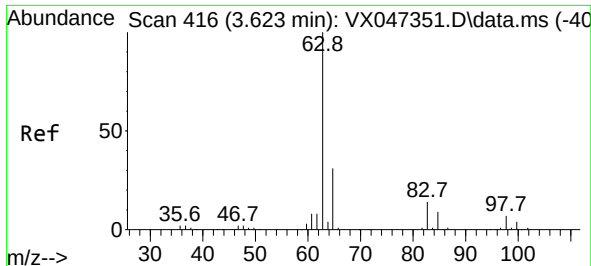
#21
trans-1,2-Dichloroethene
Concen: 0.683 ug/l
RT: 3.111 min Scan# 332
Delta R.T. 0.006 min
Lab File: VX047460.D
Acq: 21 Aug 2025 11:39



Tgt Ion: 96 Resp: 1910

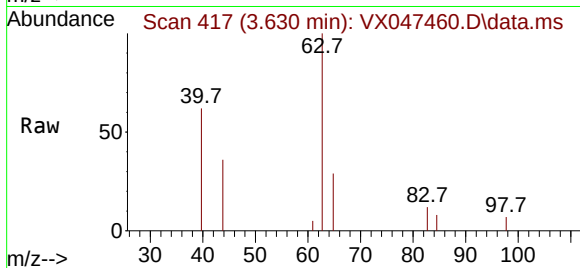
Ion	Ratio	Lower	Upper
96	100		
61	98.5	112.6	169.0#
98	56.9	50.9	76.3



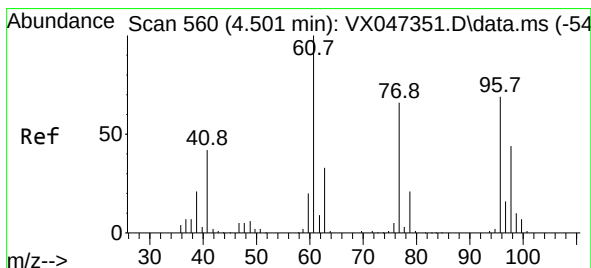
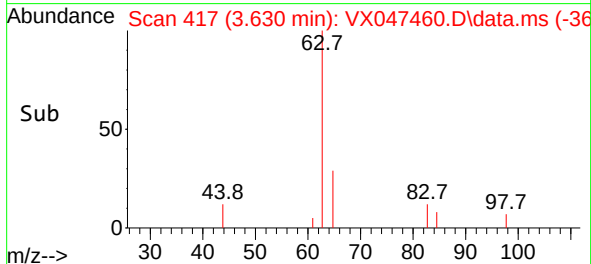
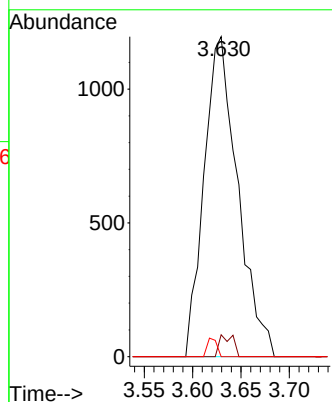


#24
 1,1-Dichloroethane
 Concen: 0.565 ug/l
 RT: 3.630 min Scan# 41
 Delta R.T. 0.006 min
 Lab File: VX047460.D
 Acq: 21 Aug 2025 11:39

Instrument :
 MSVOA_X
 ClientSampleId :

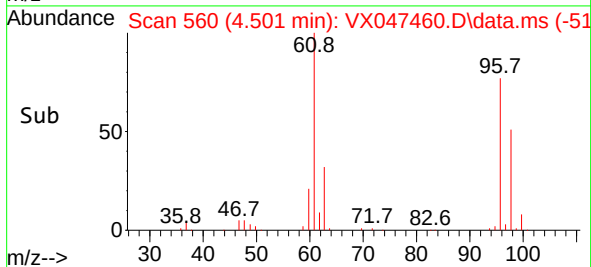
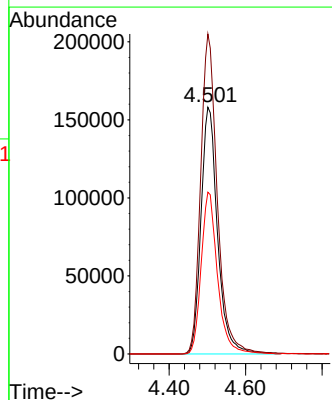
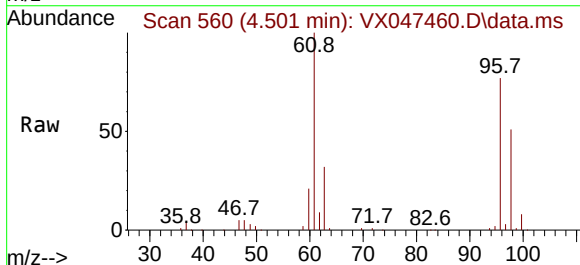


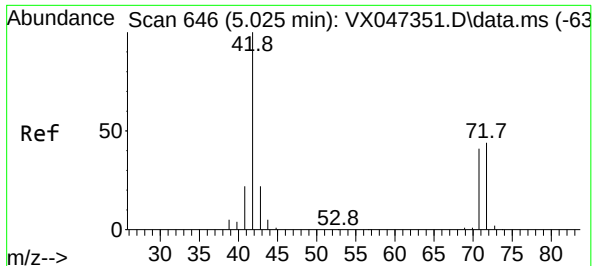
Tgt Ion: 63 Resp: 2890
 Ion Ratio Lower Upper
 63 100
 98 6.9 3.3 9.9
 100 0.0 2.1 6.3#



#27
 cis-1,2-Dichloroethene
 Concen: 146.176 ug/l
 RT: 4.501 min Scan# 560
 Delta R.T. 0.000 min
 Lab File: VX047460.D
 Acq: 21 Aug 2025 11:39

Tgt Ion: 96 Resp: 476083
 Ion Ratio Lower Upper
 96 100
 61 130.2 0.0 296.6
 98 64.6 0.0 130.4





#29

Tetrahydrofuran

Concen: 0.570 ug/l

RT: 5.080 min Scan# 61

Delta R.T. 0.055 min

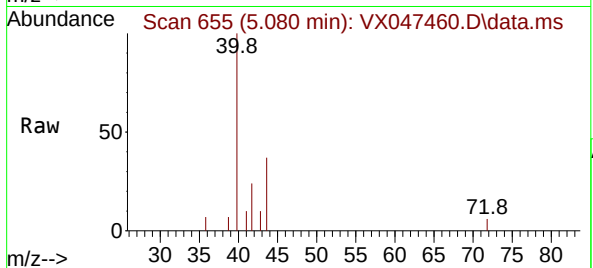
Lab File: VX047460.D

Acq: 21 Aug 2025 11:39

Instrument :

MSVOA_X

ClientSampleId :



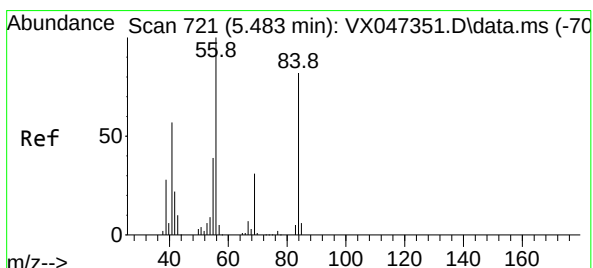
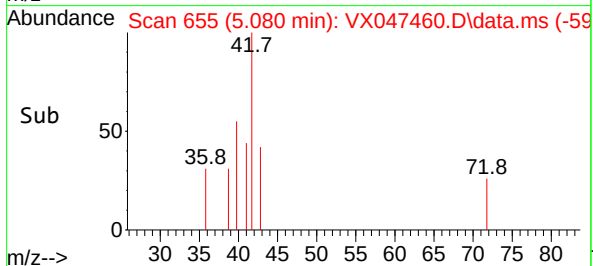
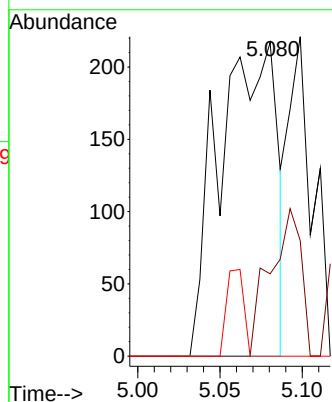
Tgt Ion: 42 Resp: 531

Ion Ratio Lower Upper

42 100

72 25.2 34.6 51.8#

71 0.0 32.6 49.0#



#31

Cyclohexane

Concen: 0.974 ug/l

RT: 5.556 min Scan# 733

Delta R.T. 0.073 min

Lab File: VX047460.D

Acq: 21 Aug 2025 11:39

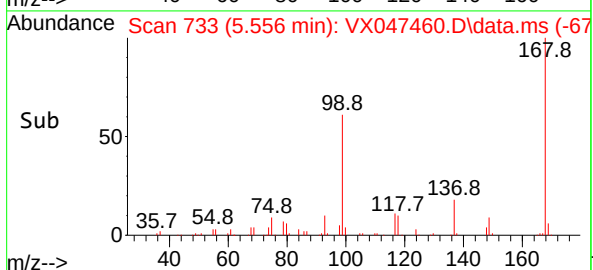
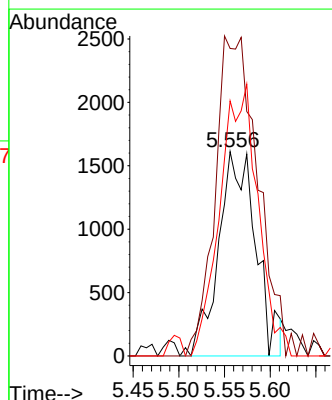
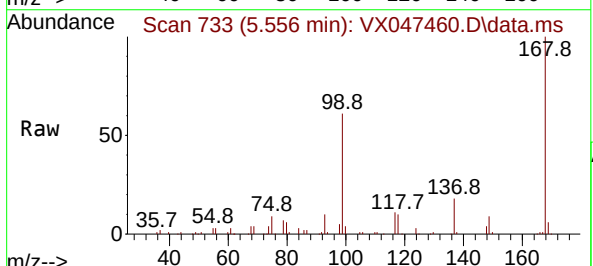
Tgt Ion: 56 Resp: 4589

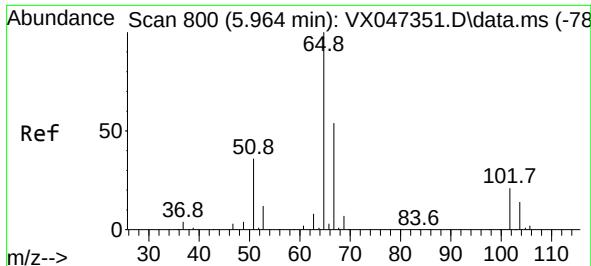
Ion Ratio Lower Upper

56 100

69 150.4 24.3 36.5#

84 116.1 65.3 97.9#

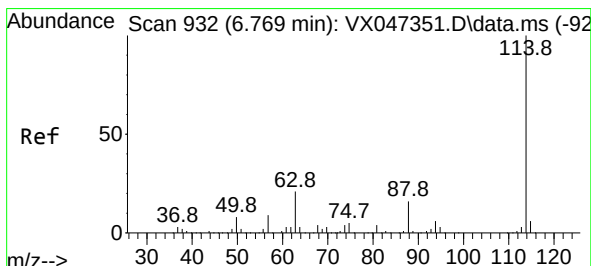
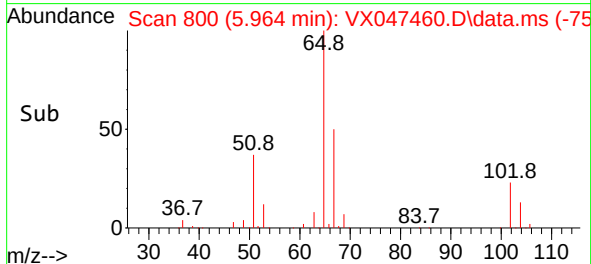
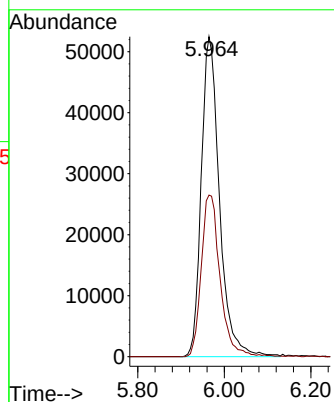
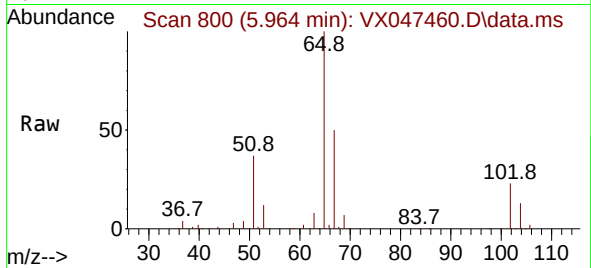




#33
 1,2-Dichloroethane-d4
 Concen: 52.215 ug/l
 RT: 5.964 min Scan# 800
 Delta R.T. 0.000 min
 Lab File: VX047460.D
 Acq: 21 Aug 2025 11:39

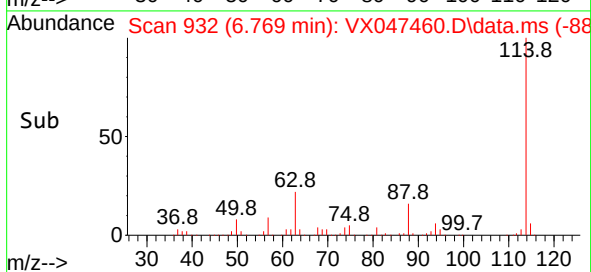
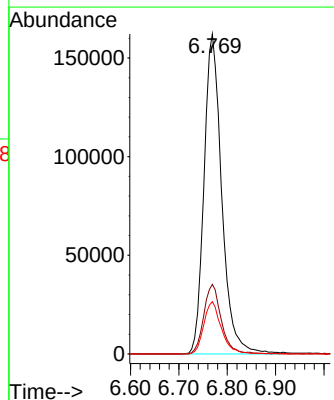
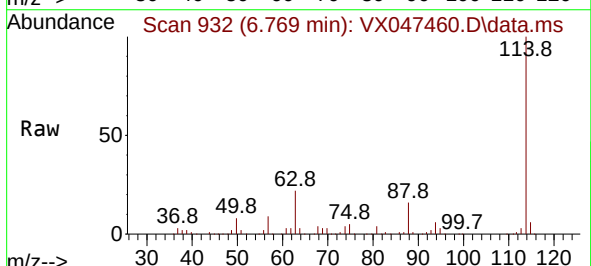
Instrument :
 MSVOA_X
 ClientSampleId :

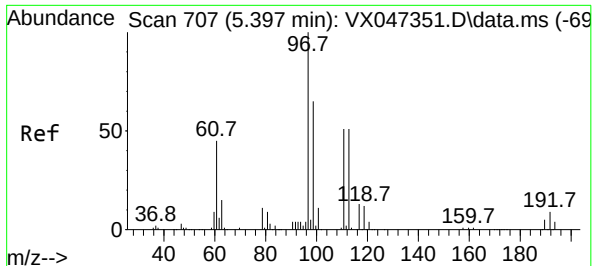
Tgt Ion: 65 Resp: 152914
 Ion Ratio Lower Upper
 65 100
 67 51.9 0.0 106.0



#34
 1,4-Difluorobenzene
 Concen: 50.000 ug/l
 RT: 6.769 min Scan# 932
 Delta R.T. 0.000 min
 Lab File: VX047460.D
 Acq: 21 Aug 2025 11:39

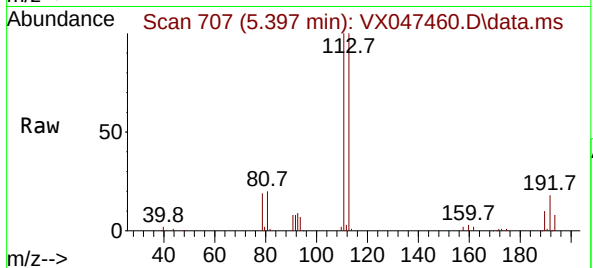
Tgt Ion: 114 Resp: 413436
 Ion Ratio Lower Upper
 114 100
 63 21.7 0.0 42.4
 88 16.4 0.0 33.0



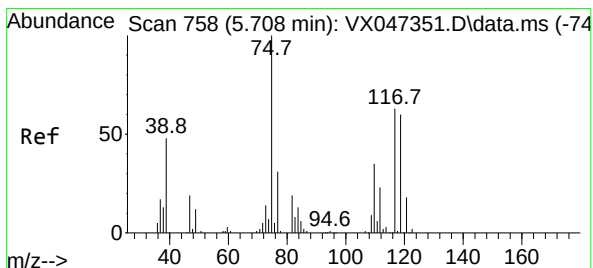
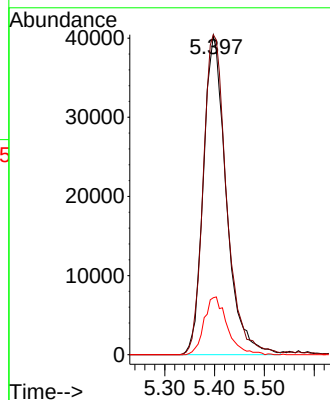
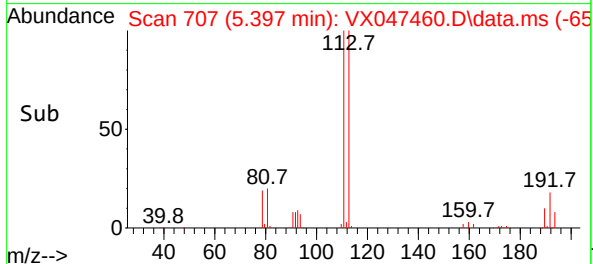


#35
Dibromofluoromethane
Concen: 47.949 ug/l
RT: 5.397 min Scan# 707
Delta R.T. 0.000 min
Lab File: VX047460.D
Acq: 21 Aug 2025 11:39

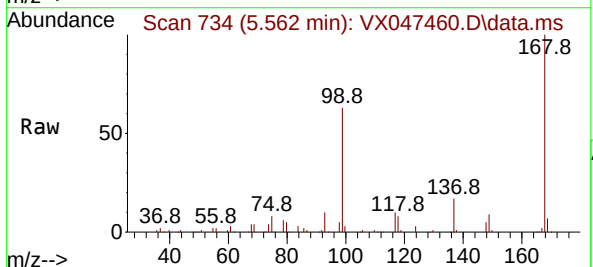
Instrument :
MSVOA_X
ClientSampleId :



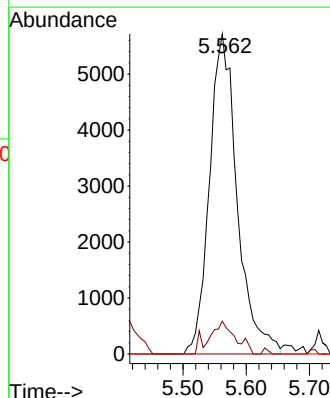
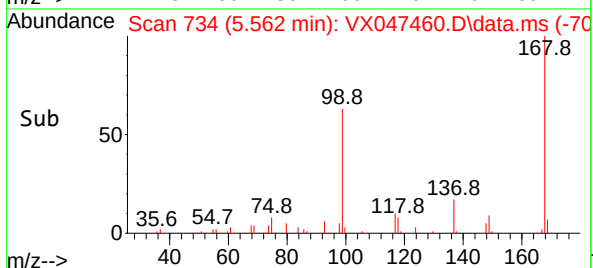
Tgt Ion:113 Resp: 128659
Ion Ratio Lower Upper
113 100
111 102.5 81.4 122.2
192 18.3 14.1 21.1

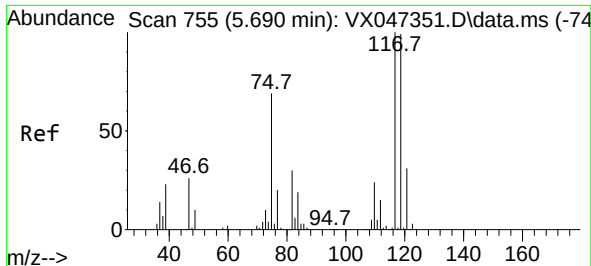


#36
1,1-Dichloropropene
Concen: 4.109 ug/l
RT: 5.562 min Scan# 734
Delta R.T. -0.146 min
Lab File: VX047460.D
Acq: 21 Aug 2025 11:39



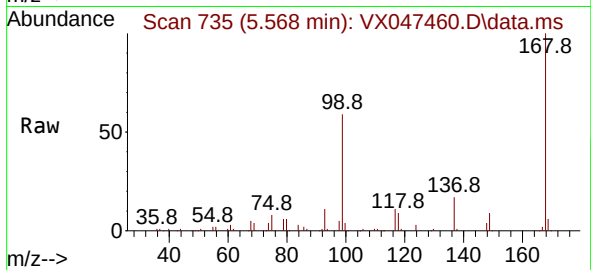
Tgt Ion: 75 Resp: 17403
Ion Ratio Lower Upper
75 100
110 8.4 17.4 52.2#
77 0.0 24.4 36.6#



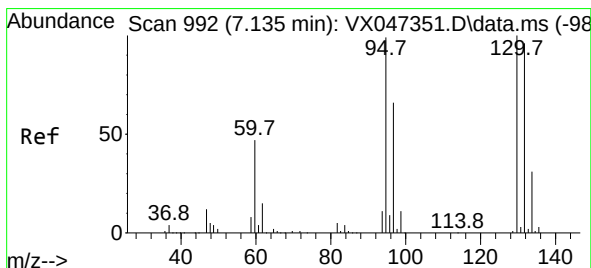
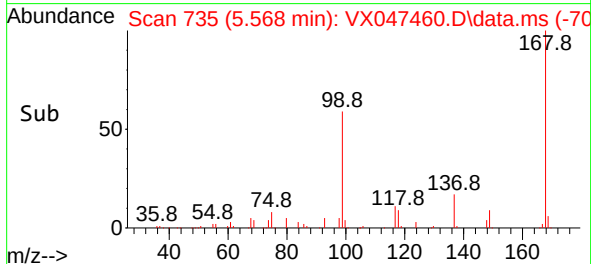
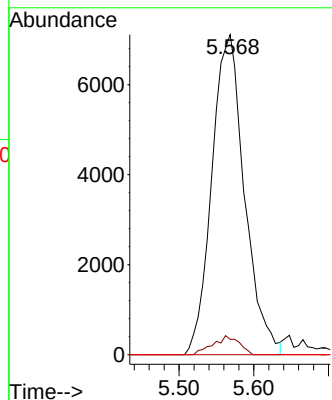


#38
Carbon Tetrachloride
Concen: 4.673 ug/l
RT: 5.568 min Scan# 71
Delta R.T. -0.122 min
Lab File: VX047460.D
Acq: 21 Aug 2025 11:39

Instrument :
MSVOA_X
ClientSampleId :

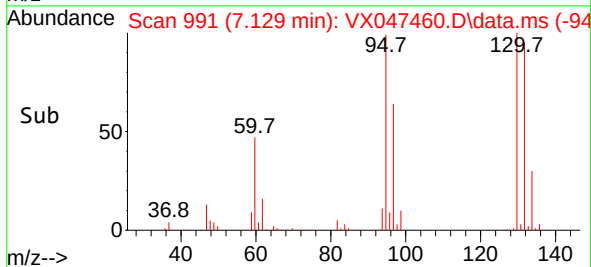
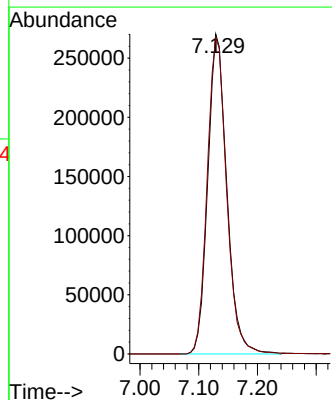
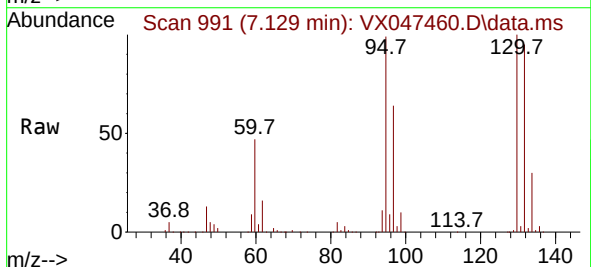


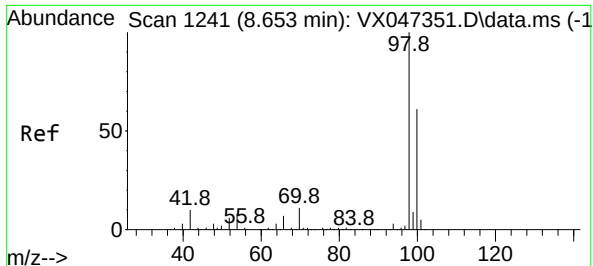
Tgt Ion:117 Resp: 21628
Ion Ratio Lower Upper
117 100
119 4.8 78.5 117.7#
121 0.0 24.7 37.1#



#44
Trichloroethene
Concen: 187.731 ug/l
RT: 7.129 min Scan# 991
Delta R.T. -0.006 min
Lab File: VX047460.D
Acq: 21 Aug 2025 11:39

Tgt Ion:130 Resp: 609435
Ion Ratio Lower Upper
130 100
95 98.8 0.0 198.6

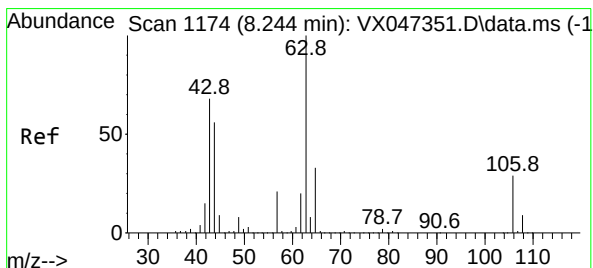
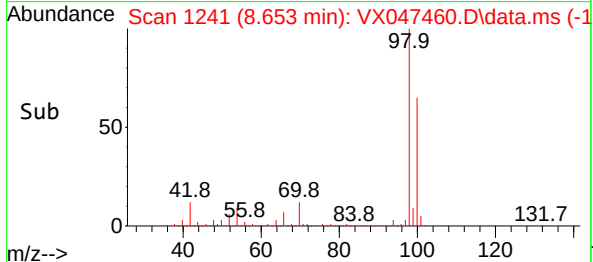
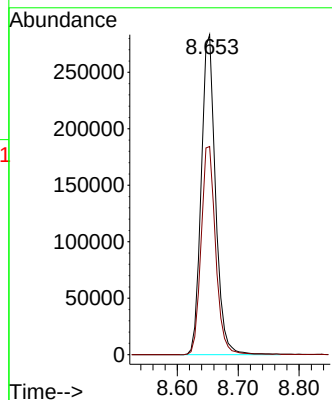
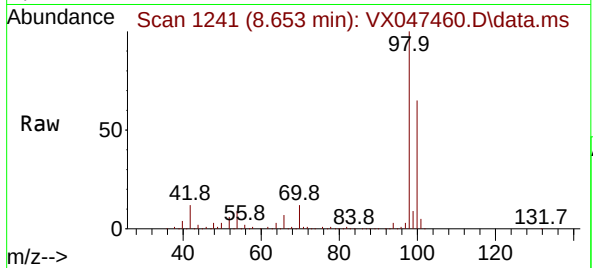




#50
Toluene-d8
Concen: 48.144 ug/l
RT: 8.653 min Scan# 1184
Delta R.T. 0.000 min
Lab File: VX047460.D
Acq: 21 Aug 2025 11:39

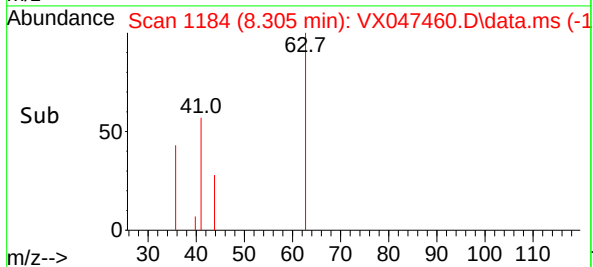
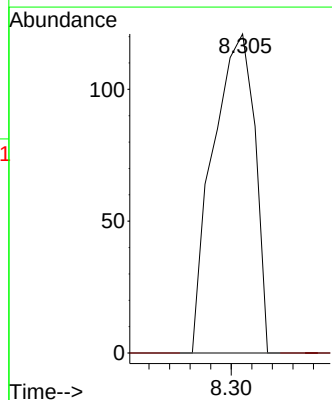
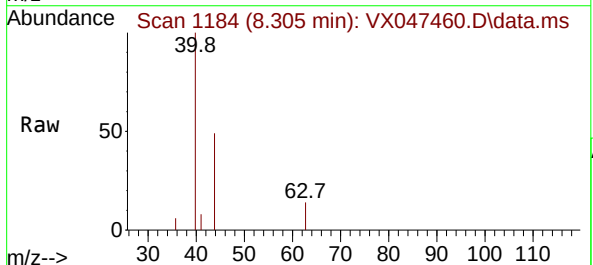
Instrument :
MSVOA_X
ClientSampleId :

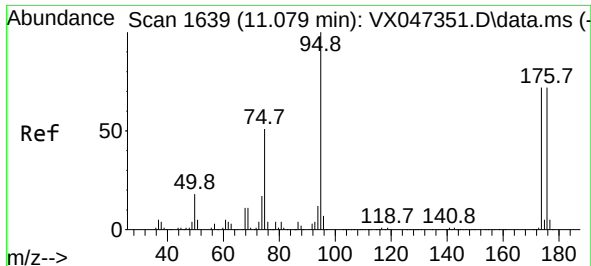
Tgt Ion: 98 Resp: 461732
Ion Ratio Lower Upper
98 100
100 66.2 53.9 80.9



#58
2-Chloroethyl Vinyl ether
Concen: 8.434 ug/l
RT: 8.305 min Scan# 1184
Delta R.T. 0.061 min
Lab File: VX047460.D
Acq: 21 Aug 2025 11:39

Tgt Ion: 63 Resp: 171
Ion Ratio Lower Upper
63 100
106 0.0 22.8 34.2#

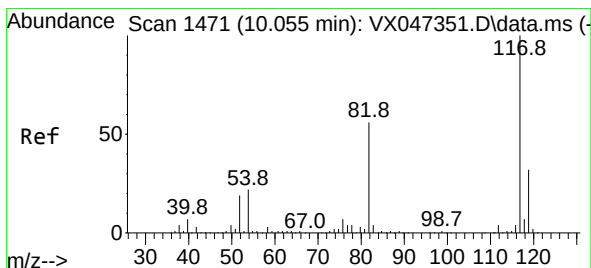
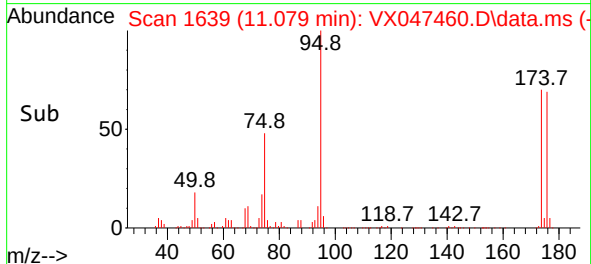
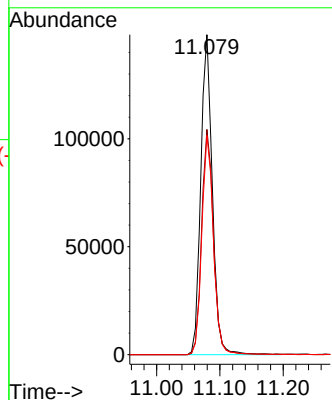
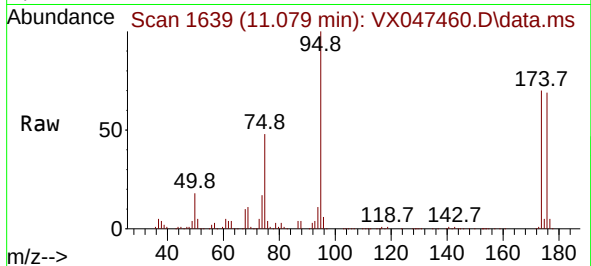




#62
4-Bromofluorobenzene
Concen: 53.334 ug/l
RT: 11.079 min Scan# 1639
Delta R.T. 0.000 min
Lab File: VX047460.D
Acq: 21 Aug 2025 11:39

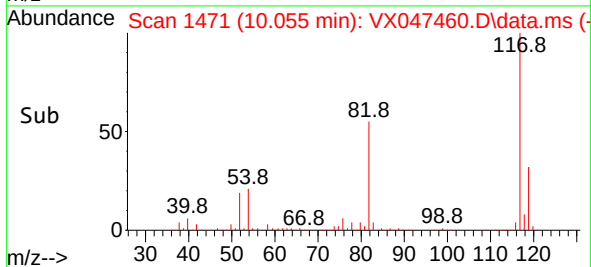
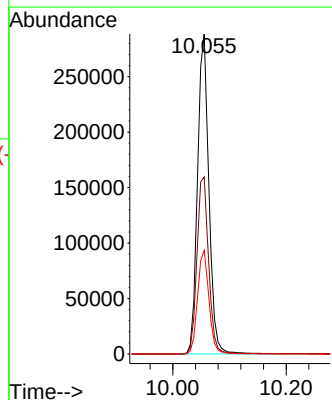
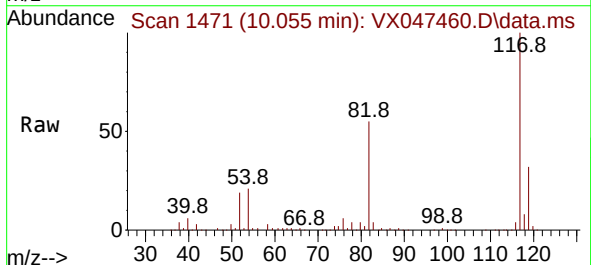
Instrument :
MSVOA_X
ClientSampleId :

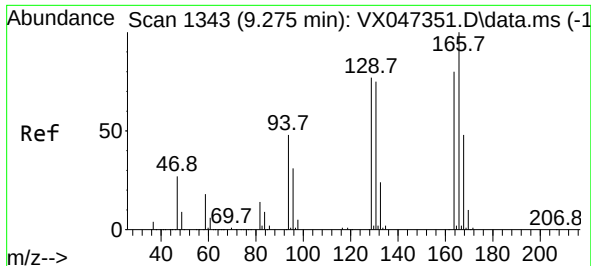
Tgt Ion: 95 Resp: 188755
Ion Ratio Lower Upper
95 100
174 72.0 0.0 148.0
176 69.1 0.0 145.4



#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 10.055 min Scan# 1471
Delta R.T. 0.000 min
Lab File: VX047460.D
Acq: 21 Aug 2025 11:39

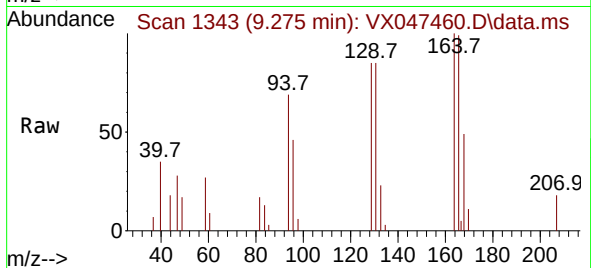
Tgt Ion: 117 Resp: 399927
Ion Ratio Lower Upper
117 100
82 55.3 45.0 67.4
119 32.3 25.8 38.8



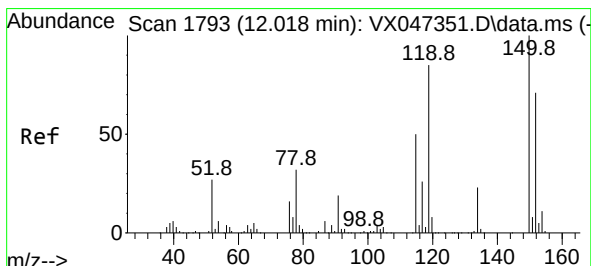
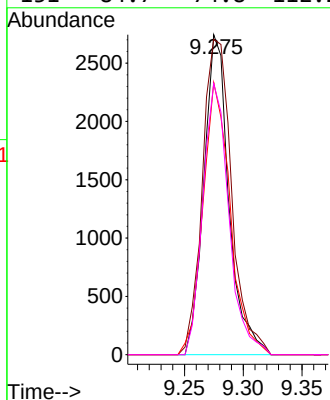
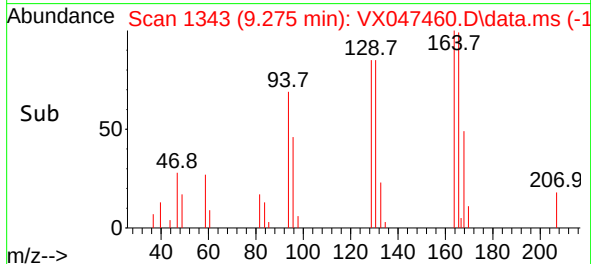


#64
Tetrachloroethene
Concen: 1.405 ug/l
RT: 9.275 min Scan# 11
Delta R.T. 0.000 min
Lab File: VX047460.D
Acq: 21 Aug 2025 11:39

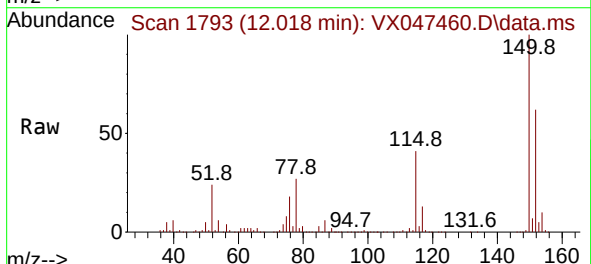
Instrument :
MSVOA_X
ClientSampleId :



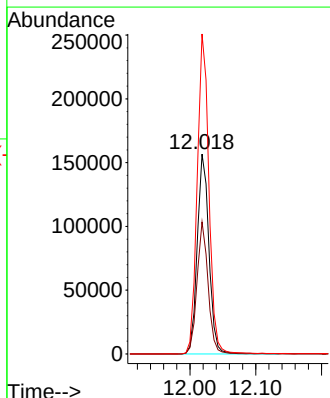
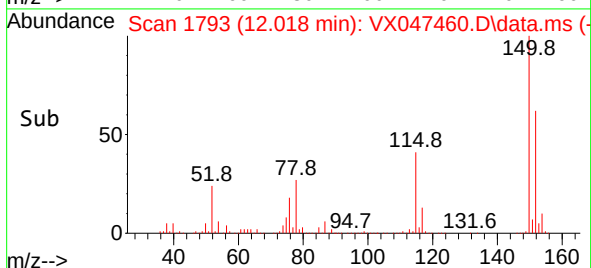
Tgt Ion:164 Resp: 4063
Ion Ratio Lower Upper
164 100
166 98.5 100.3 150.5#
129 85.1 77.7 116.5
131 84.7 74.8 112.2

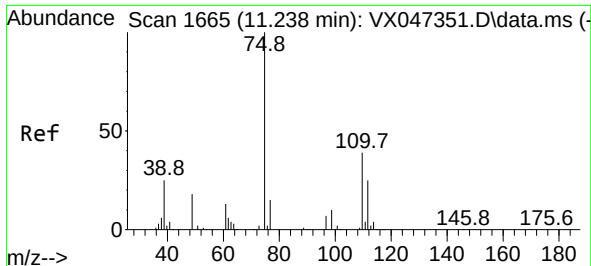


#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 12.018 min Scan# 1793
Delta R.T. 0.000 min
Lab File: VX047460.D
Acq: 21 Aug 2025 11:39



Tgt Ion:152 Resp: 194035
Ion Ratio Lower Upper
152 100
115 62.7 44.6 133.8
150 159.8 0.0 349.8

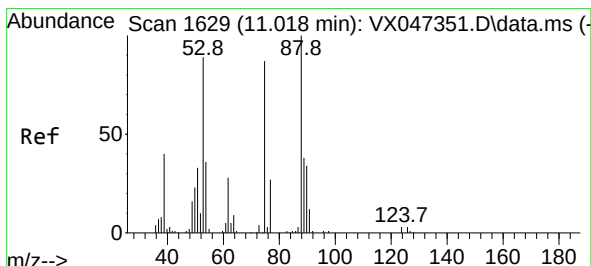
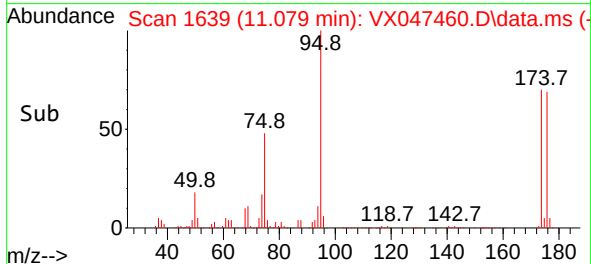
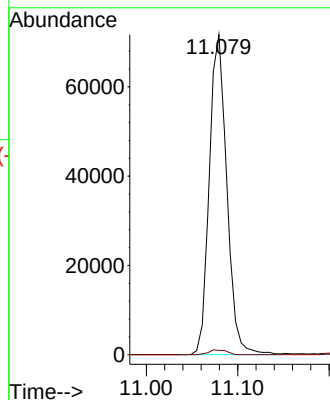
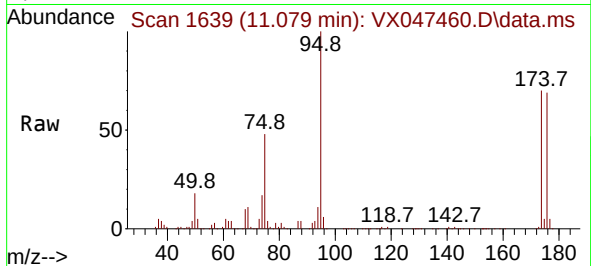




#76
1,2,3-Trichloropropane
Concen: 26.813 ug/l
RT: 11.079 min Scan# 1639
Delta R.T. -0.158 min
Lab File: VX047460.D
Acq: 21 Aug 2025 11:39

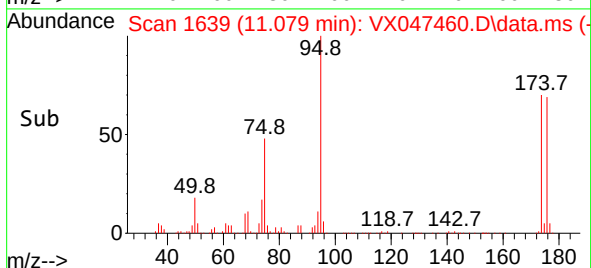
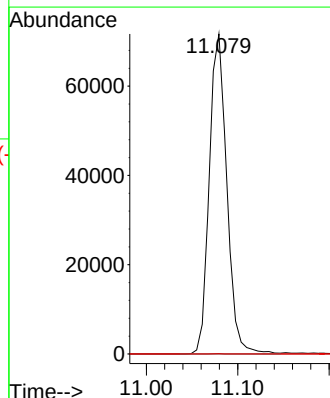
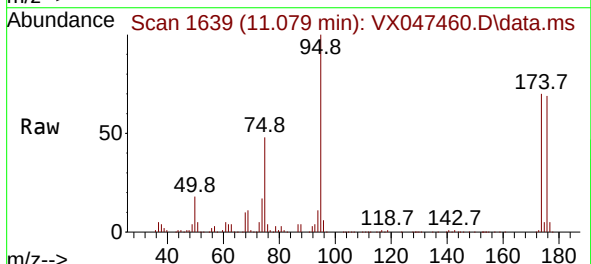
Instrument :
MSVOA_X
ClientSampleId :

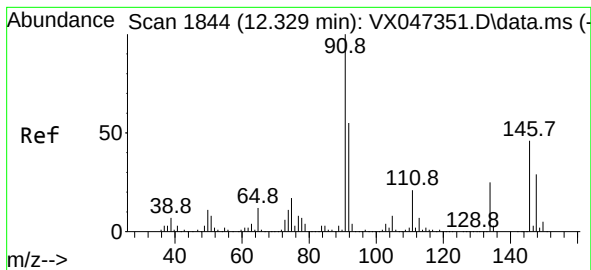
Tgt Ion: 75 Resp: 95421
Ion Ratio Lower Upper
75 100
77 1.5 19.4 58.2#



#81
trans-1,4-Dichloro-2-butene
Concen: 106.081 ug/l
RT: 11.079 min Scan# 1639
Delta R.T. 0.061 min
Lab File: VX047460.D
Acq: 21 Aug 2025 11:39

Tgt Ion: 75 Resp: 95421
Ion Ratio Lower Upper
75 100
53 0.1 85.2 127.8#
89 0.0 36.7 55.1#





#89

n-Butylbenzene

Concen: 0.274 ug/l

RT: 12.335 min Scan# 1845

Delta R.T. 0.006 min

Lab File: VX047460.D

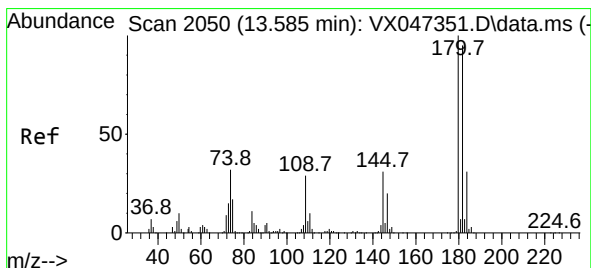
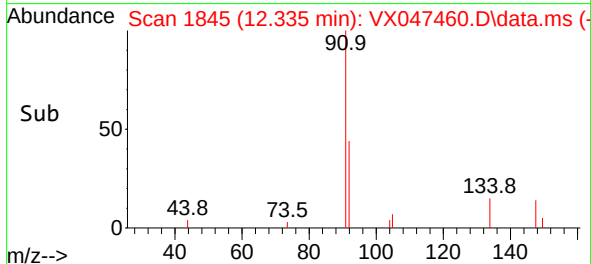
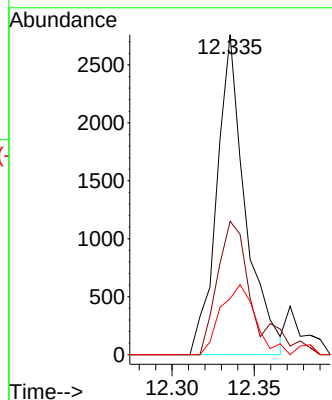
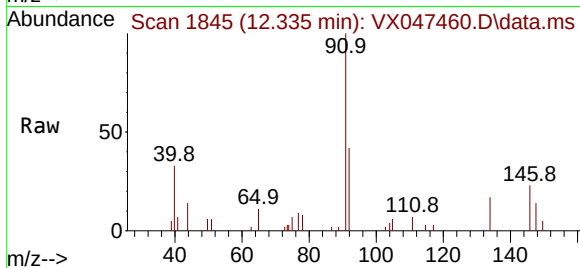
Acq: 21 Aug 2025 11:39

Instrument :

MSVOA_X

ClientSampleId :

Tgt Ion:	91	Resp:	3334
Ion	Ratio	Lower	Upper
91	100		
92	51.5	27.2	81.5
134	26.5	12.6	37.8



#93

1,2,4-Trichlorobenzene

Concen: 0.415 ug/l

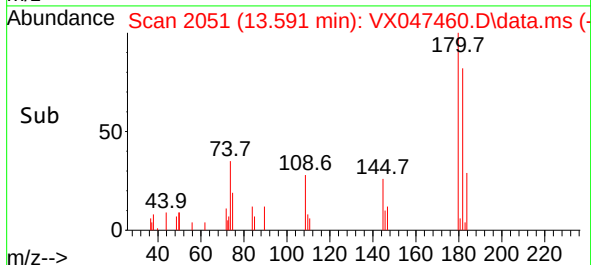
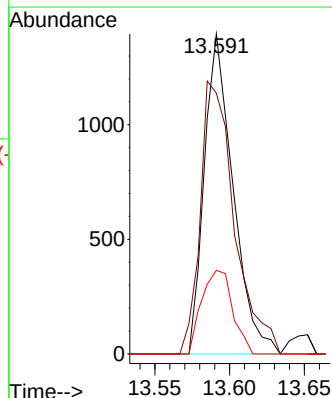
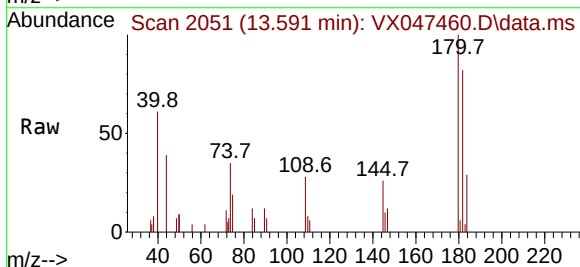
RT: 13.591 min Scan# 2051

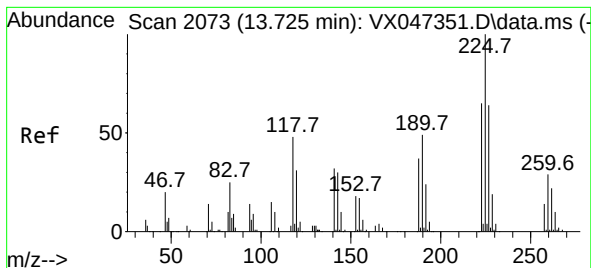
Delta R.T. 0.006 min

Lab File: VX047460.D

Acq: 21 Aug 2025 11:39

Tgt Ion:	180	Resp:	1870
Ion	Ratio	Lower	Upper
180	100		
182	100.9	48.1	144.4
145	28.0	16.2	48.5





#94

Hexachlorobutadiene

Concen: 1.282 ug/l

RT: 13.725 min Scan# 2073

Delta R.T. 0.000 min

Lab File: VX047460.D

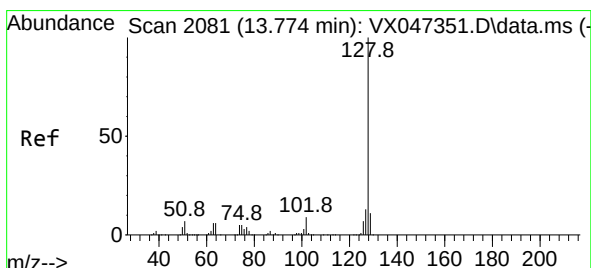
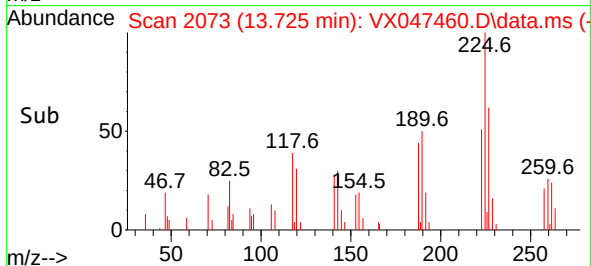
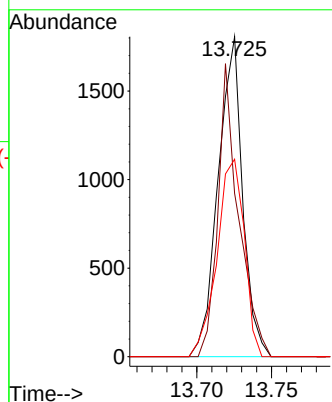
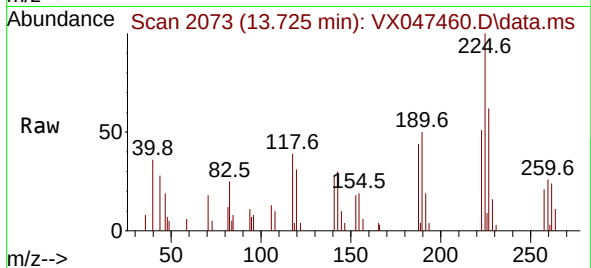
Acq: 21 Aug 2025 11:39

Instrument :

MSVOA_X

ClientSampleId :

Tgt Ion:	225	Resp:	2056
Ion Ratio	Lower	Upper	
225	100		
223	77.5	32.2	96.6
227	68.8	31.6	95.0



#95

Naphthalene

Concen: 0.858 ug/l

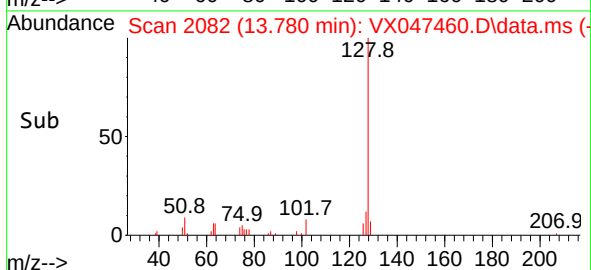
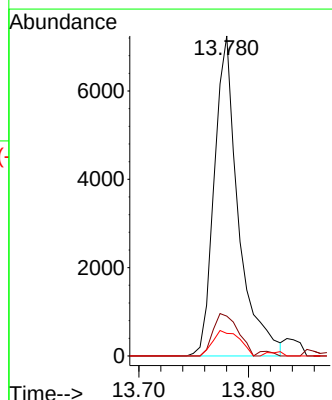
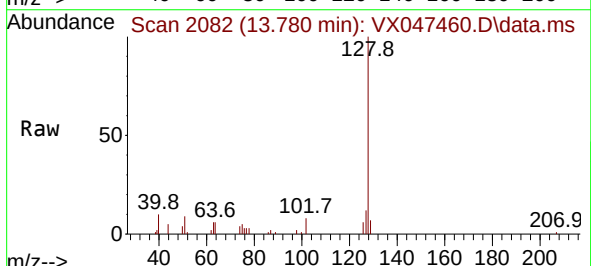
RT: 13.780 min Scan# 2082

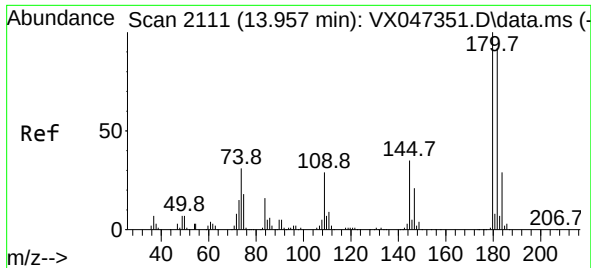
Delta R.T. 0.006 min

Lab File: VX047460.D

Acq: 21 Aug 2025 11:39

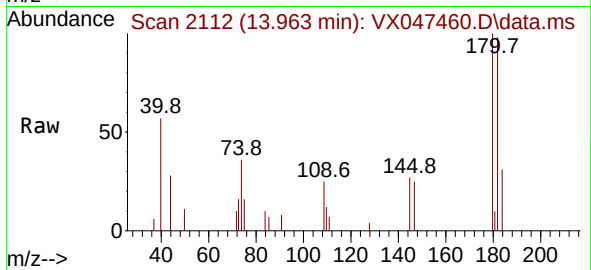
Tgt Ion:	128	Resp:	11053
Ion Ratio	Lower	Upper	
128	100		
127	14.1	10.1	15.1
129	8.8	8.7	13.1





#96
 1,2,3-Trichlorobenzene
 Concen: 0.485 ug/l
 RT: 13.963 min Scan# 21
 Delta R.T. 0.006 min
 Lab File: VX047460.D
 Acq: 21 Aug 2025 11:39

Instrument :
 MSVOA_X
 ClientSampleId :



Tgt Ion:180 Resp: 2060
 Ion Ratio Lower Upper
 180 100
 182 90.5 48.0 144.2
 145 25.7 17.4 52.2

