

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX111025\
 Data File : VX048543.D
 Acq On : 10 Nov 2025 16:29
 Operator : JC/MD
 Sample : Q3569-01
 Misc : 5.0mL/MSVOA_X/WATER
 ALS Vial : 18 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :

Quant Time: Nov 11 00:48:41 2025
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X110725W.M
 Quant Title : SW846 8260
 QLast Update : Sat Nov 08 05:08:11 2025
 Response via : Initial Calibration

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

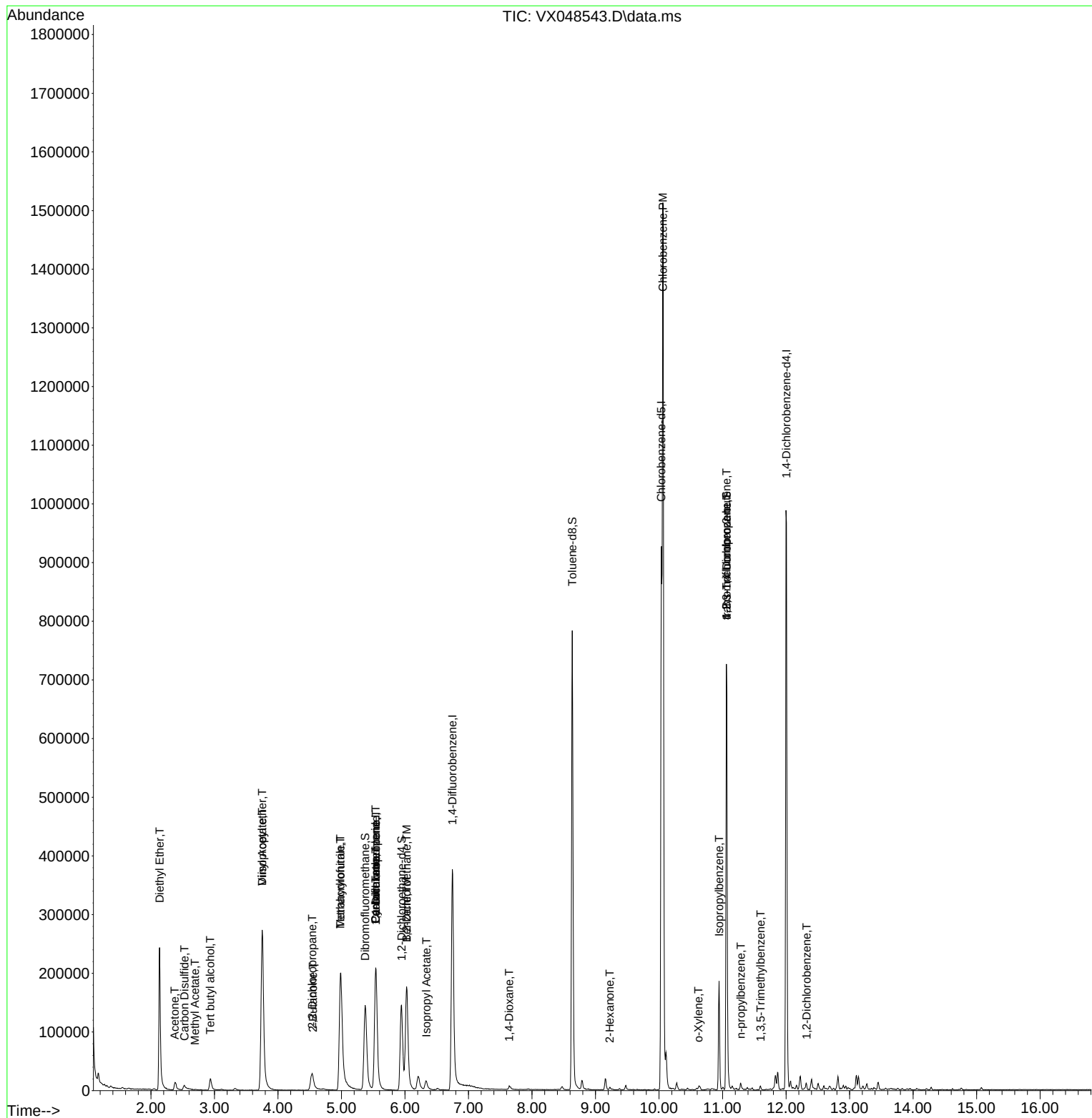
Internal Standards						
1) Pentafluorobenzene	5.538	168	226787	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	6.745	114	431937	50.000	ug/l	0.00
63) Chlorobenzene-d5	10.037	117	431296	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.006	152	228614	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	5.946	65	160723	50.860	ug/l	0.00
Spiked Amount	50.000	Range 78 - 117	Recovery	= 101.720%		
35) Dibromofluoromethane	5.373	113	145632	44.547	ug/l	0.00
Spiked Amount	50.000	Range 75 - 124	Recovery	= 89.100%		
50) Toluene-d8	8.635	98	497489	48.793	ug/l	0.00
Spiked Amount	50.000	Range 92 - 112	Recovery	= 97.580%		
62) 4-Bromofluorobenzene	11.061	95	210524	55.405	ug/l	0.00
Spiked Amount	50.000	Range 83 - 123	Recovery	= 110.820%		
Target Compounds						
					Qvalue	
8) Diethyl Ether	2.136	74	102359	58.408	ug/l	99
11) Tert butyl alcohol	2.934	59	25525	42.627	ug/l	97
16) Acetone	2.373	43	12328	8.241	ug/l	97
17) Carbon Disulfide	2.526	76	17881	2.407	ug/l	99
18) Methyl Acetate	2.691	43	1503	0.366	ug/l #	82
22) Diisopropyl ether	3.751	45	346305	36.691	ug/l #	50
23) Vinyl Acetate	3.751	43	163382	19.765	ug/l #	71
25) 2-Butanone	4.550	43	4861	2.197	ug/l #	74
26) 2,2-Dichloropropane	4.538	77	2300	0.521	ug/l #	52
29) Tetrahydrofuran	4.983	42	238120	150.876	ug/l	95
31) Cyclohexane	5.538	56	4065	0.958	ug/l #	1
36) 1,1-Dichloropropene	5.544	75	17154	3.919	ug/l #	49
38) Carbon Tetrachloride	5.538	117	22718	4.559	ug/l #	16
40) Benzene	6.025	78	237868	17.530	ug/l	100
41) Methacrylonitrile	4.983	41	125780	46.415	ug/l #	39
42) 1,2-Dichloroethane	6.025	62	1618	0.348	ug/l #	73
43) Isopropyl Acetate	6.336	43	3206	0.370	ug/l #	68
49) 1,4-Dioxane	7.641	88	4818	82.117	ug/l	93
59) 2-Hexanone	9.226	43	2446	0.667	ug/l	66
65) Chlorobenzene	10.061	112	675136	65.951	ug/l	98
69) o-Xylene	10.622	106	1523	0.240	ug/l	93
73) Isopropylbenzene	10.945	105	98271	5.922	ug/l	98
76) 1,2,3-Trichloropropane	11.061	75	101290	18.391	ug/l #	30
78) n-propylbenzene	11.287	91	5100	0.261	ug/l	97
80) 1,3,5-Trimethylbenzene	11.597	105	3481	0.257	ug/l	73
81) trans-1,4-Dichloro-2-b...	11.061	75	101290	52.604	ug/l #	12
91) 1,2-Dichlorobenzene	12.323	146	2732	0.354	ug/l	93

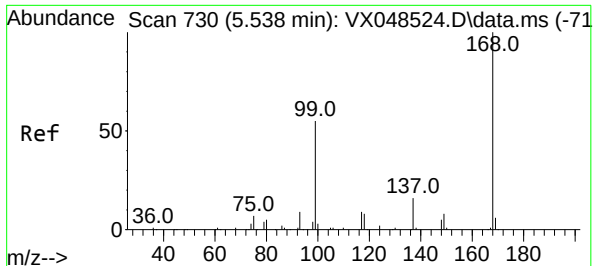
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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QLast Update : Sat Nov 08 05:08:11 2025
Response via : Initial Calibration

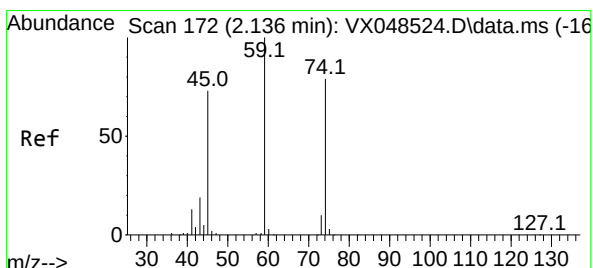
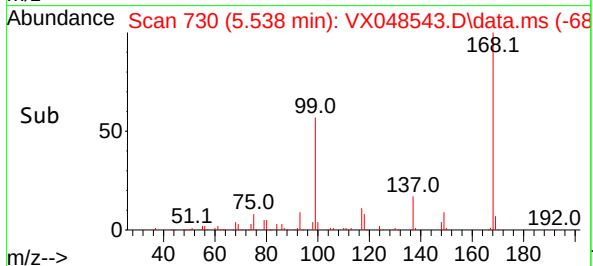
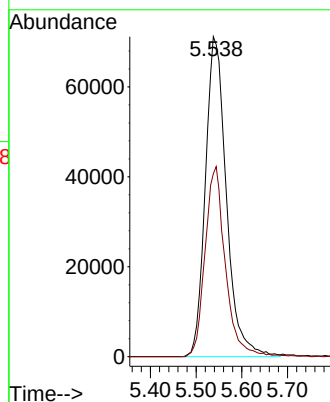
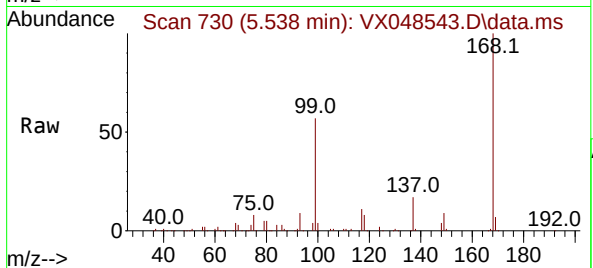




#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 5.538 min Scan# 71
Delta R.T. -0.000 min
Lab File: VX048543.D
Acq: 10 Nov 2025 16:29

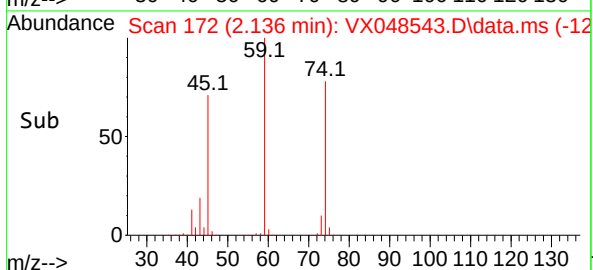
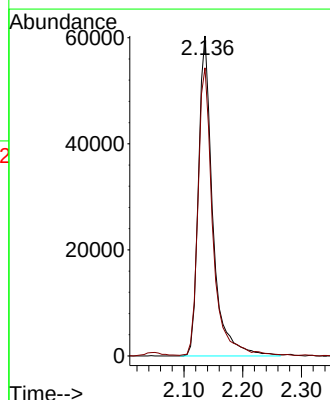
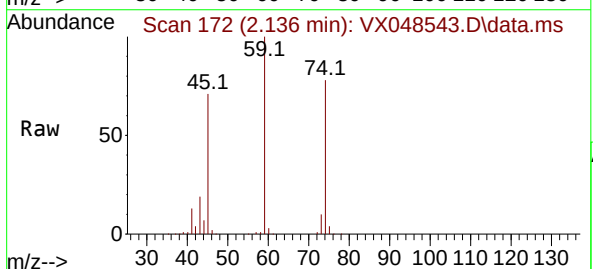
Instrument :
MSVOA_X
ClientSampleId :

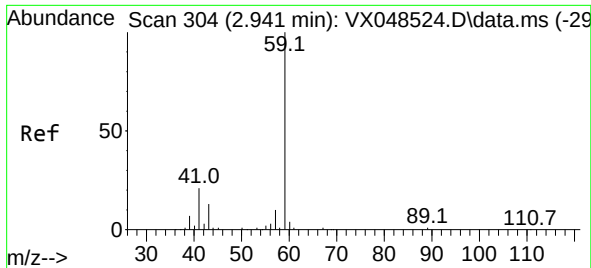
Tgt Ion:168 Resp: 226787
Ion Ratio Lower Upper
168 100
99 57.2 45.2 67.8



#8
Diethyl Ether
Concen: 58.408 ug/l
RT: 2.136 min Scan# 172
Delta R.T. -0.000 min
Lab File: VX048543.D
Acq: 10 Nov 2025 16:29

Tgt Ion: 74 Resp: 102359
Ion Ratio Lower Upper
74 100
45 93.0 45.9 137.6

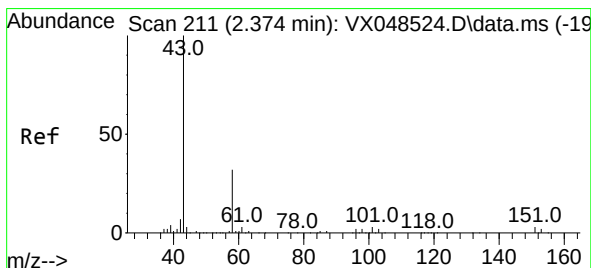
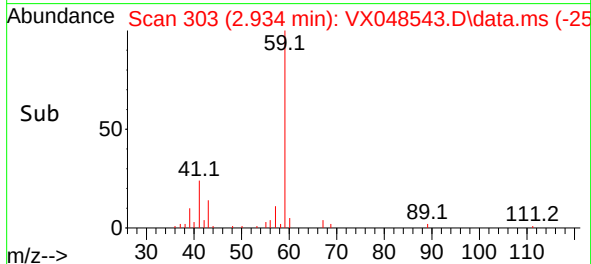
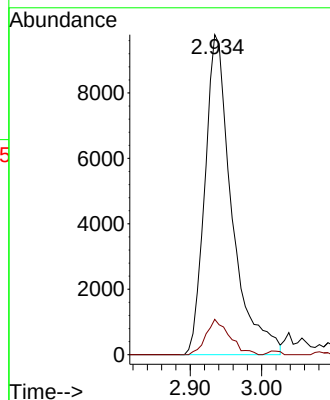
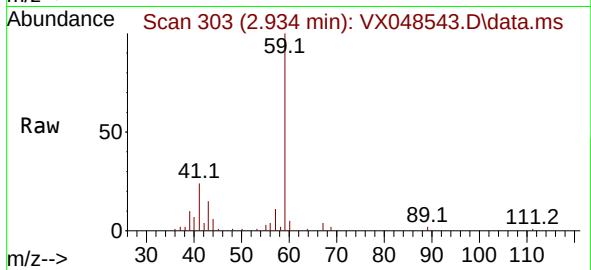




#11
Tert butyl alcohol
Concen: 42.627 ug/l
RT: 2.934 min Scan# 304
Delta R.T. -0.006 min
Lab File: VX048543.D
Acq: 10 Nov 2025 16:29

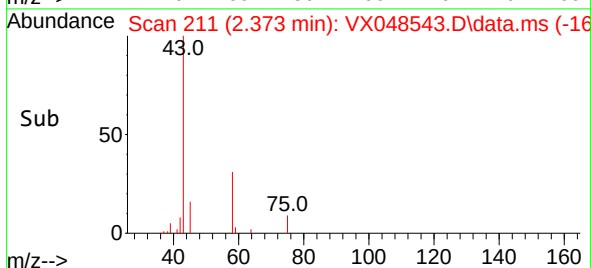
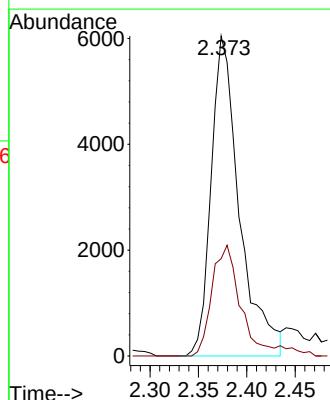
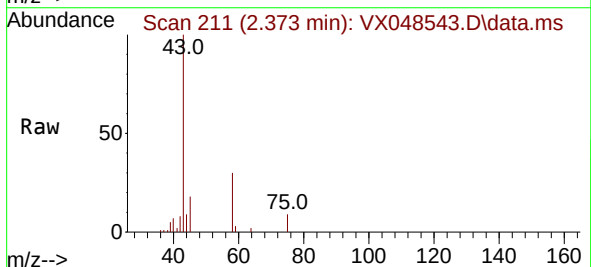
Instrument :
MSVOA_X
ClientSampleId :

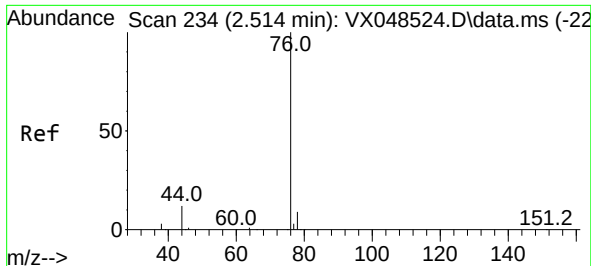
Tgt Ion: 59 Resp: 25525
Ion Ratio Lower Upper
59 100
57 9.7 8.6 13.0



#16
Acetone
Concen: 8.241 ug/l
RT: 2.373 min Scan# 211
Delta R.T. -0.000 min
Lab File: VX048543.D
Acq: 10 Nov 2025 16:29

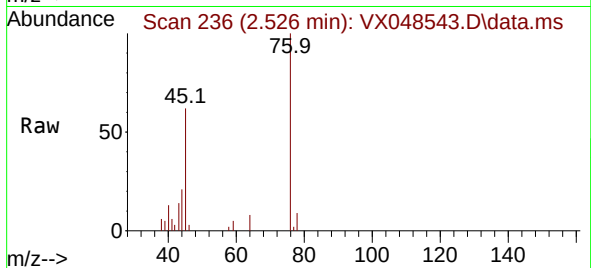
Tgt Ion: 43 Resp: 12328
Ion Ratio Lower Upper
43 100
58 30.4 25.8 38.6



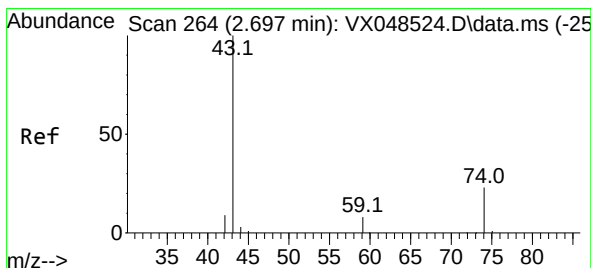
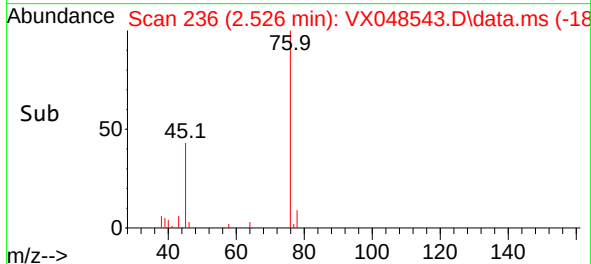
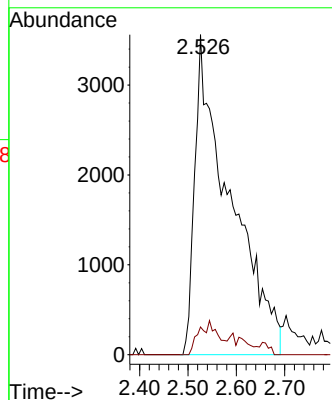


#17
Carbon Disulfide
Concen: 2.407 ug/l
RT: 2.526 min Scan# 21
Delta R.T. 0.012 min
Lab File: VX048543.D
Acq: 10 Nov 2025 16:29

Instrument :
MSVOA_X
ClientSampleId :

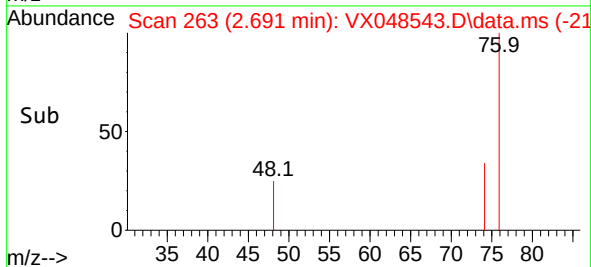
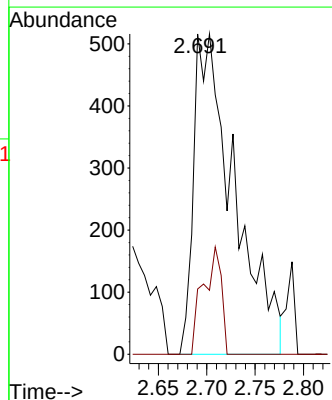
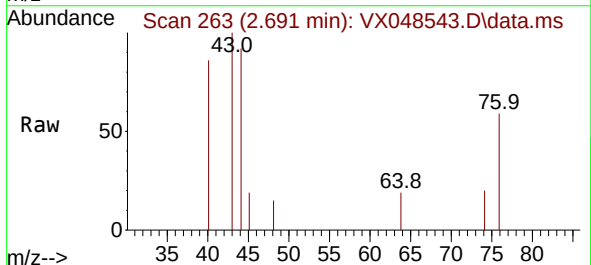


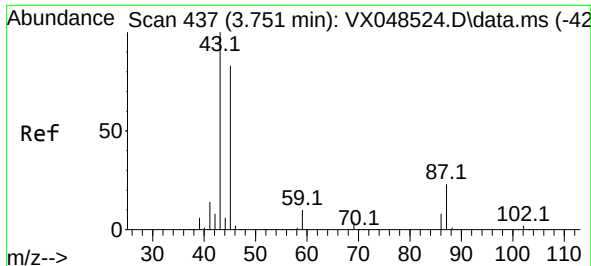
Tgt Ion: 76 Resp: 17881
Ion Ratio Lower Upper
76 100
78 8.6 7.1 10.7



#18
Methyl Acetate
Concen: 0.366 ug/l
RT: 2.691 min Scan# 263
Delta R.T. -0.006 min
Lab File: VX048543.D
Acq: 10 Nov 2025 16:29

Tgt Ion: 43 Resp: 1503
Ion Ratio Lower Upper
43 100
74 15.1 19.1 28.7#

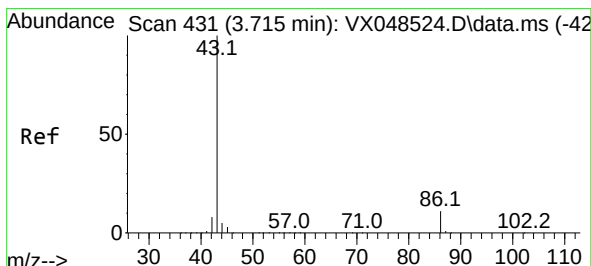
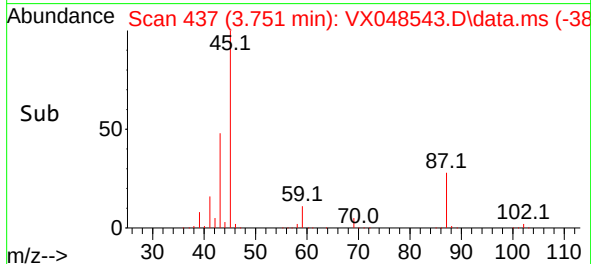
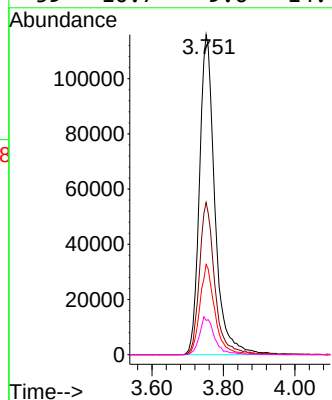
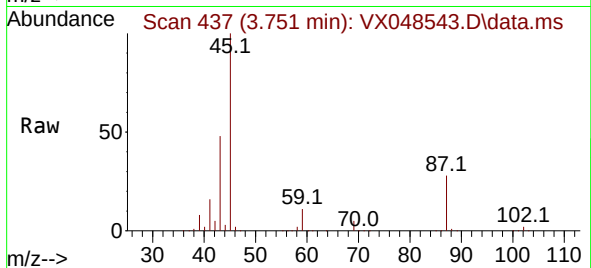




#22
Diisopropyl ether
Concen: 36.691 ug/l
RT: 3.751 min Scan# 41
Delta R.T. -0.000 min
Lab File: VX048543.D
Acq: 10 Nov 2025 16:29

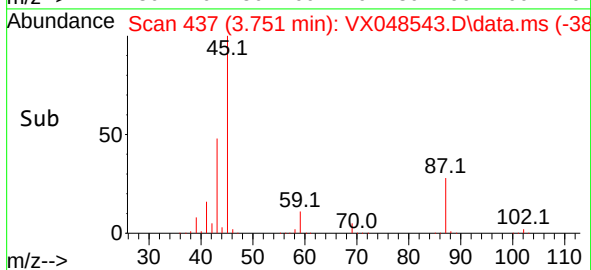
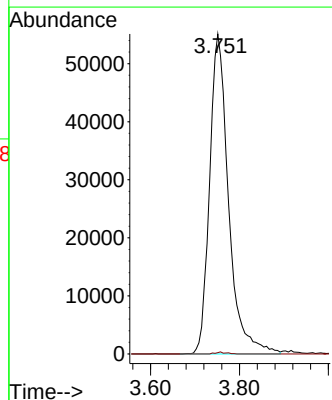
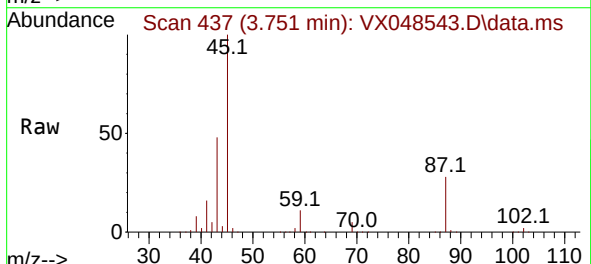
Instrument :
MSVOA_X
ClientSampleId :

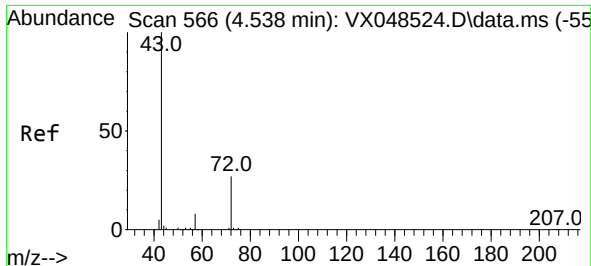
Tgt Ion: 45 Resp: 346305
Ion Ratio Lower Upper
45 100
43 47.5 96.4 144.6#
87 28.2 21.8 32.6
59 10.7 9.6 14.4



#23
Vinyl Acetate
Concen: 19.765 ug/l
RT: 3.751 min Scan# 437
Delta R.T. 0.036 min
Lab File: VX048543.D
Acq: 10 Nov 2025 16:29

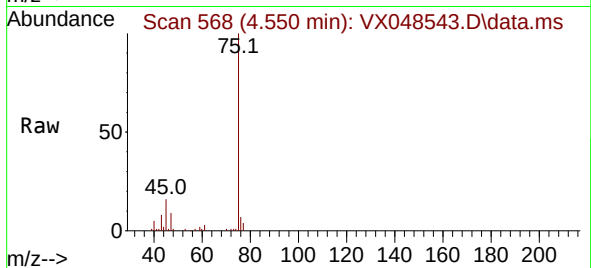
Tgt Ion: 43 Resp: 163382
Ion Ratio Lower Upper
43 100
86 0.4 9.0 13.6#



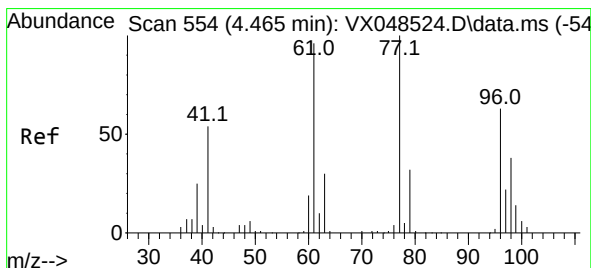
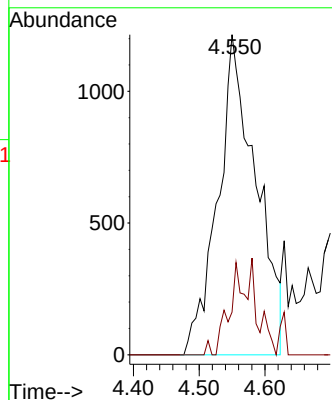
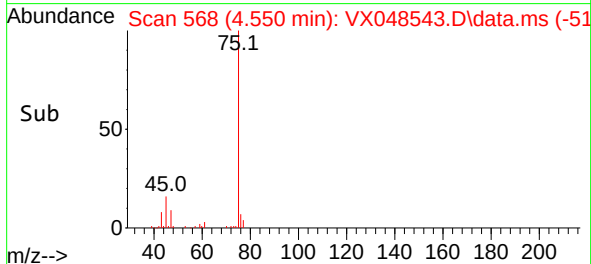


#25
2-Butanone
Concen: 2.197 ug/l
RT: 4.550 min Scan# 568
Delta R.T. 0.012 min
Lab File: VX048543.D
Acq: 10 Nov 2025 16:29

Instrument :
MSVOA_X
ClientSampleId :

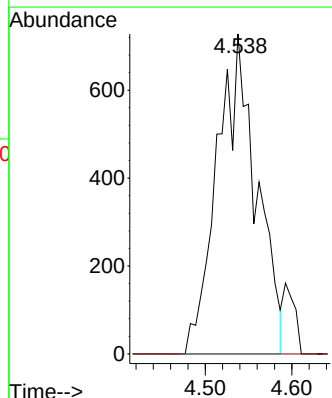
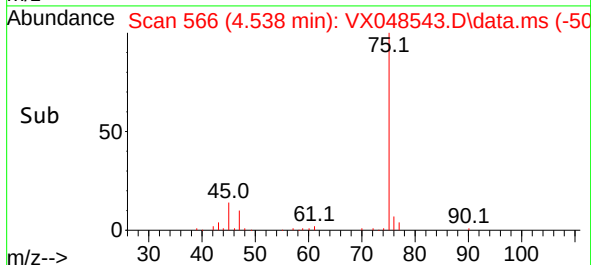
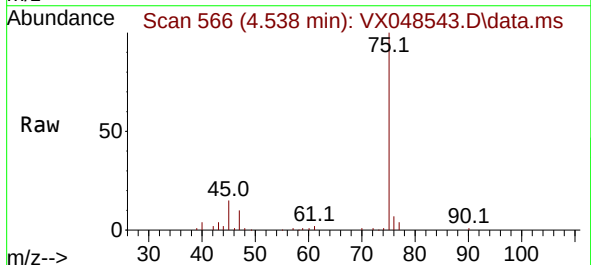


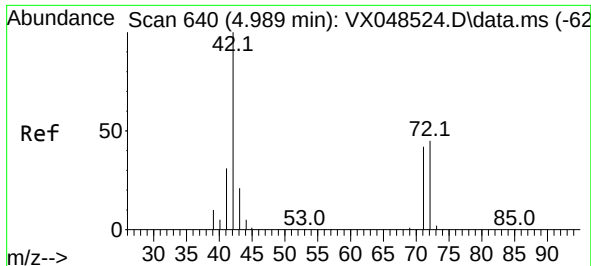
Tgt Ion: 43 Resp: 4861
Ion Ratio Lower Upper
43 100
72 13.3 21.5 32.3#



#26
2,2-Dichloropropane
Concen: 0.521 ug/l
RT: 4.538 min Scan# 566
Delta R.T. 0.073 min
Lab File: VX048543.D
Acq: 10 Nov 2025 16:29

Tgt Ion: 77 Resp: 2300
Ion Ratio Lower Upper
77 100
97 0.0 11.7 35.1#





#29

Tetrahydrofuran

Concen: 150.876 ug/l

RT: 4.983 min Scan# 61

Delta R.T. -0.006 min

Lab File: VX048543.D

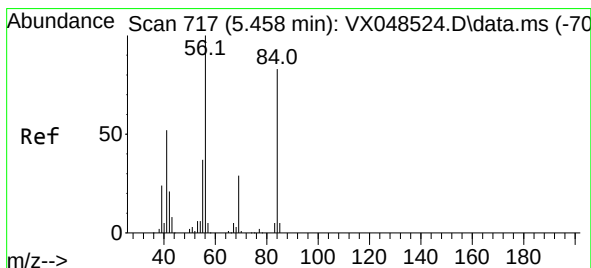
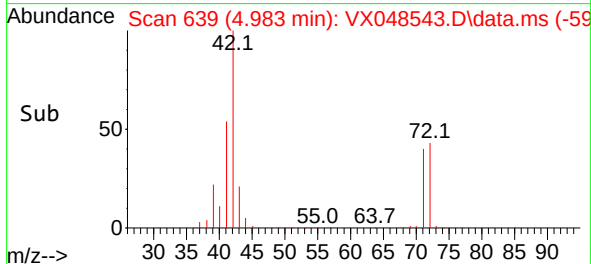
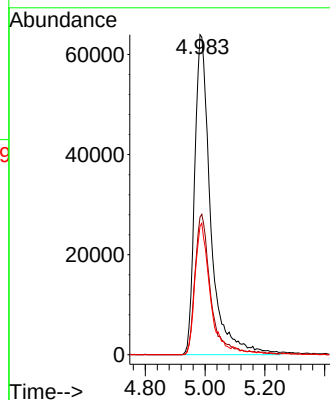
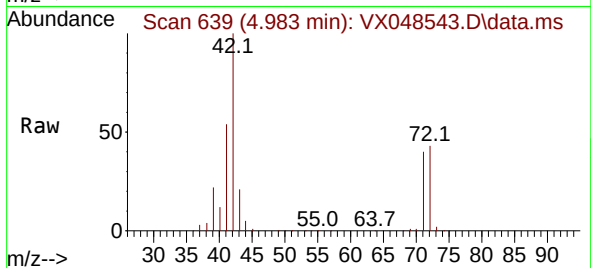
Acq: 10 Nov 2025 16:29

Instrument :

MSVOA_X

ClientSampleId :

Tgt Ion:	42	Resp:	238120
Ion	Ratio	Lower	Upper
42	100		
72	43.1	36.3	54.5
71	37.9	34.1	51.1



#31

Cyclohexane

Concen: 0.958 ug/l

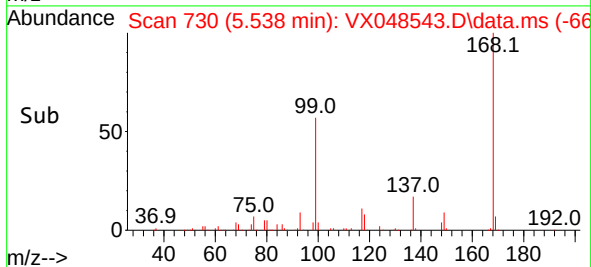
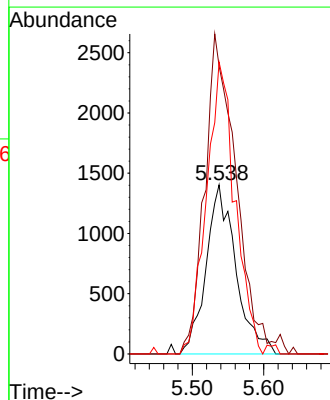
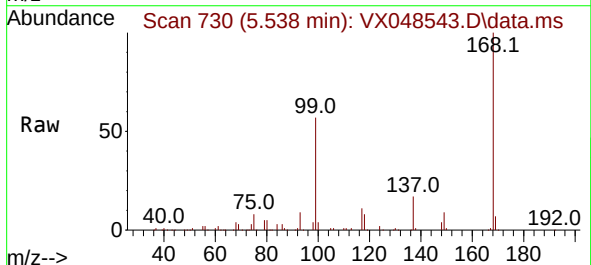
RT: 5.538 min Scan# 730

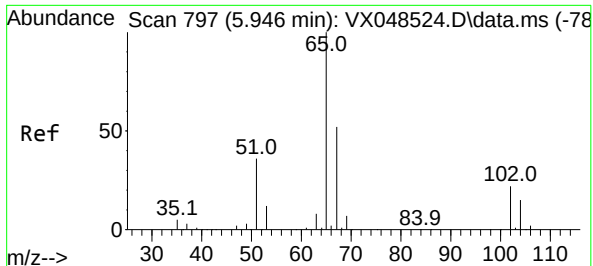
Delta R.T. 0.079 min

Lab File: VX048543.D

Acq: 10 Nov 2025 16:29

Tgt Ion:	56	Resp:	4065
Ion	Ratio	Lower	Upper
56	100		
69	170.4	23.4	35.2#
84	172.6	66.3	99.5#

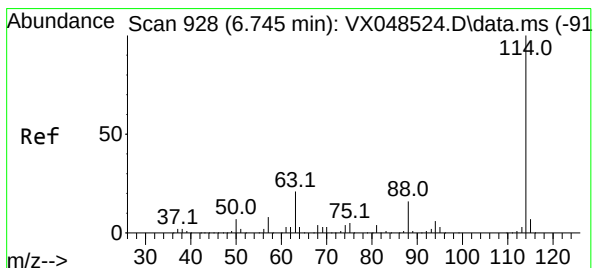
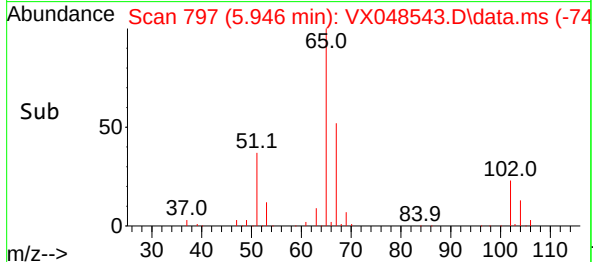
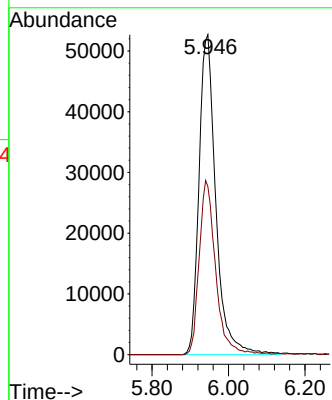
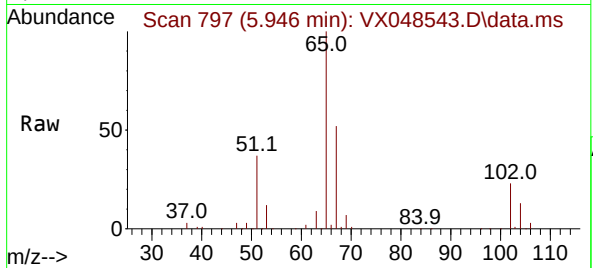




#33
 1,2-Dichloroethane-d4
 Concen: 50.860 ug/l
 RT: 5.946 min Scan# 797
 Delta R.T. -0.000 min
 Lab File: VX048543.D
 Acq: 10 Nov 2025 16:29

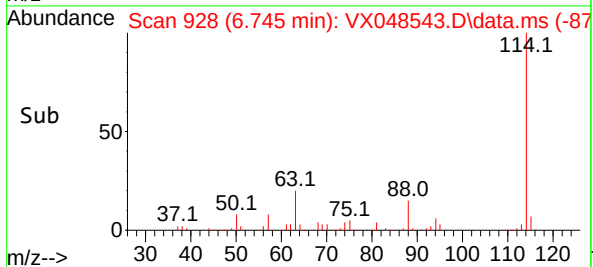
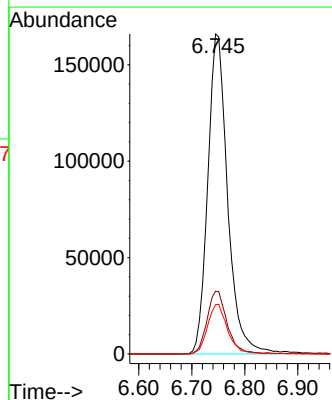
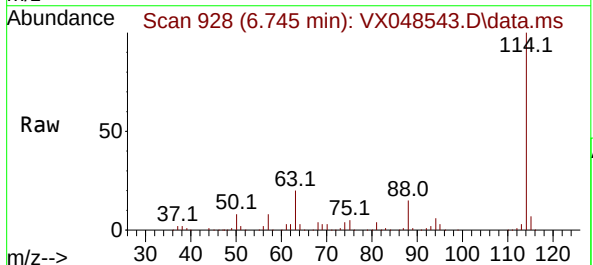
Instrument :
 MSVOA_X
 ClientSampleId :

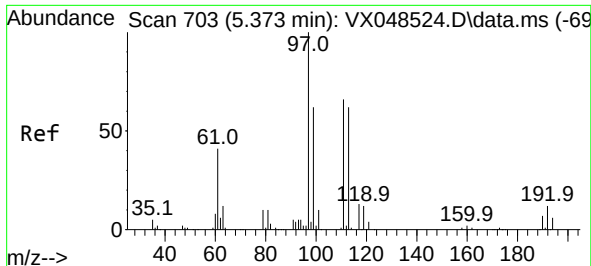
Tgt Ion: 65 Resp: 160723
 Ion Ratio Lower Upper
 65 100
 67 53.4 0.0 106.2



#34
 1,4-Difluorobenzene
 Concen: 50.000 ug/l
 RT: 6.745 min Scan# 928
 Delta R.T. -0.000 min
 Lab File: VX048543.D
 Acq: 10 Nov 2025 16:29

Tgt Ion: 114 Resp: 431937
 Ion Ratio Lower Upper
 114 100
 63 19.6 0.0 41.2
 88 15.4 0.0 32.2

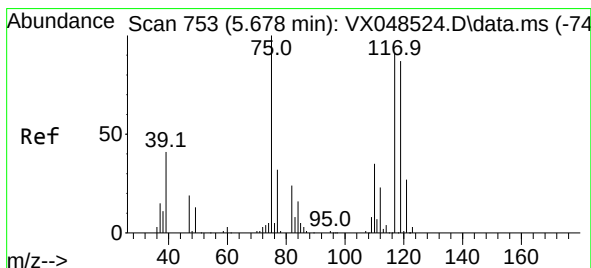
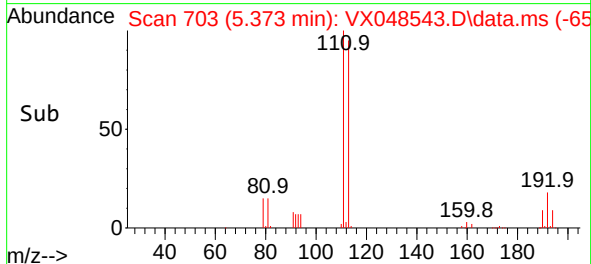
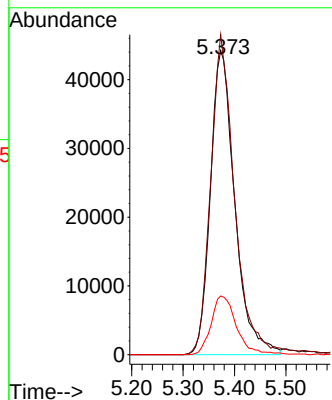
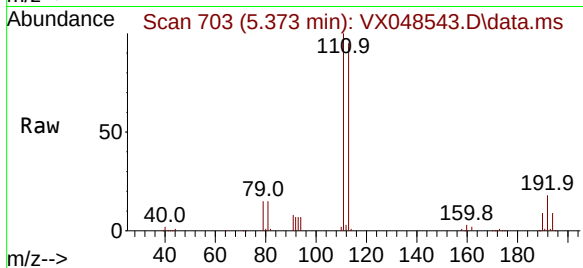




#35
Dibromofluoromethane
Concen: 44.547 ug/l
RT: 5.373 min Scan# 703
Delta R.T. -0.000 min
Lab File: VX048543.D
Acq: 10 Nov 2025 16:29

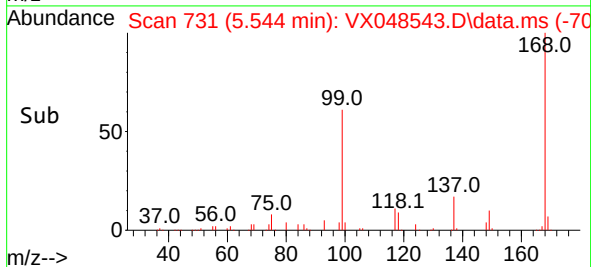
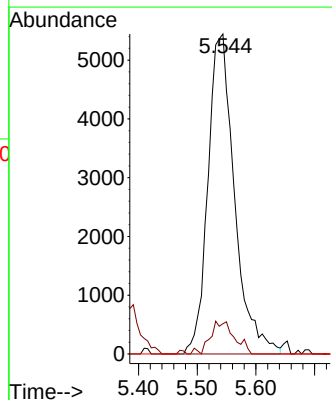
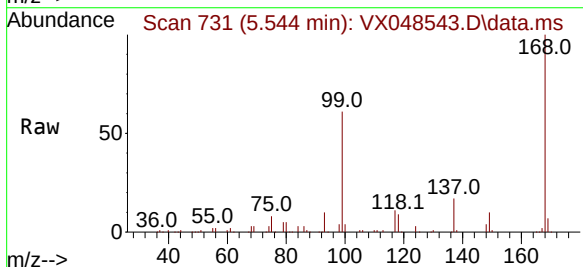
Instrument :
MSVOA_X
ClientSampleId :

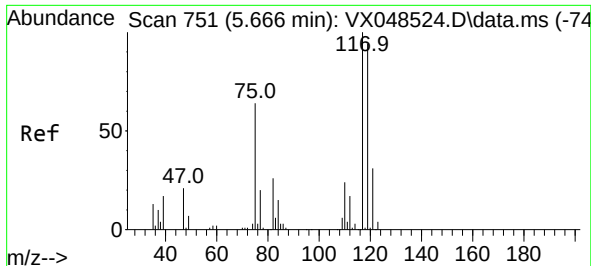
Tgt Ion:113 Resp: 145632
Ion Ratio Lower Upper
113 100
111 103.5 81.9 122.9
192 20.1 15.8 23.6



#36
1,1-Dichloropropene
Concen: 3.919 ug/l
RT: 5.544 min Scan# 731
Delta R.T. -0.134 min
Lab File: VX048543.D
Acq: 10 Nov 2025 16:29

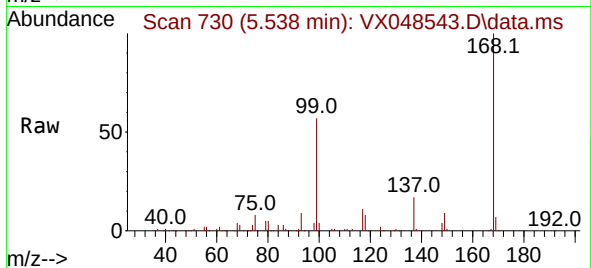
Tgt Ion: 75 Resp: 17154
Ion Ratio Lower Upper
75 100
110 9.3 18.4 55.4#
77 0.0 24.6 37.0#



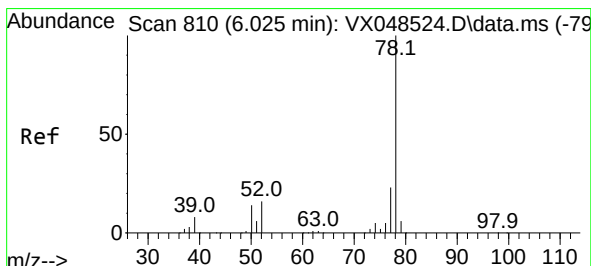
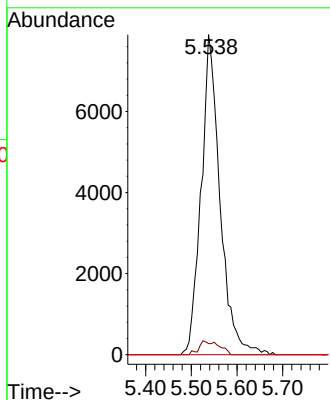
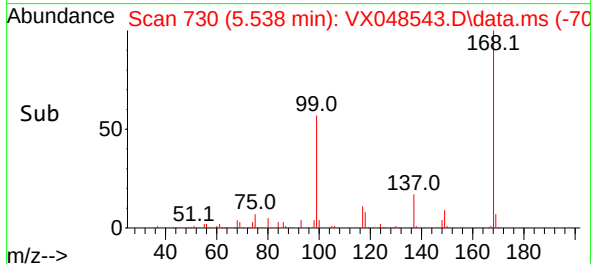


#38
Carbon Tetrachloride
Concen: 4.559 ug/l
RT: 5.538 min Scan# 71
Delta R.T. -0.128 min
Lab File: VX048543.D
Acq: 10 Nov 2025 16:29

Instrument :
MSVOA_X
ClientSampleId :

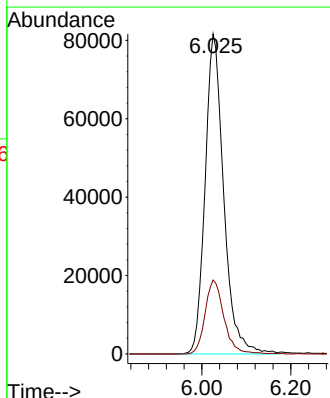
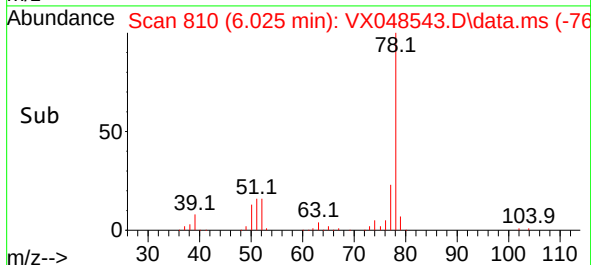
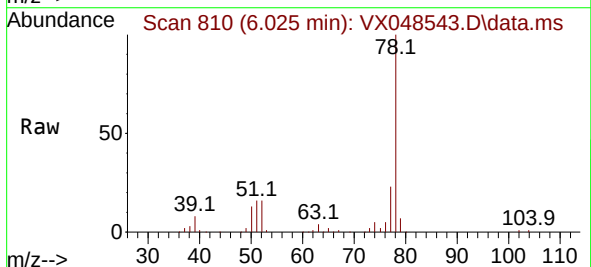


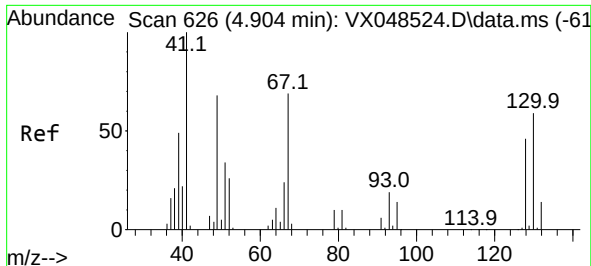
Tgt Ion:117 Resp: 22718
Ion Ratio Lower Upper
117 100
119 3.5 74.5 111.7#
121 0.0 24.8 37.2#



#40
Benzene
Concen: 17.530 ug/l
RT: 6.025 min Scan# 810
Delta R.T. -0.000 min
Lab File: VX048543.D
Acq: 10 Nov 2025 16:29

Tgt Ion: 78 Resp: 237868
Ion Ratio Lower Upper
78 100
77 23.1 18.3 27.5

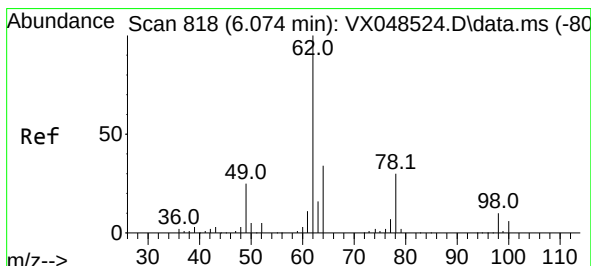
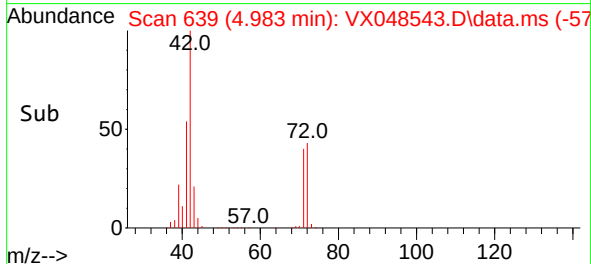
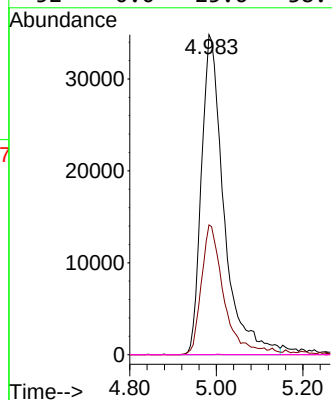
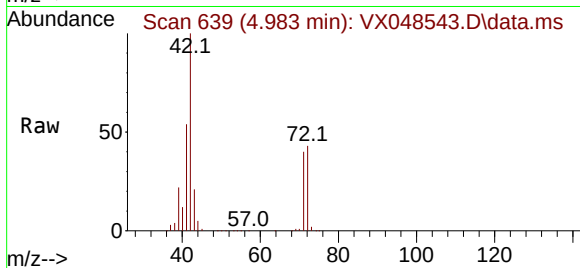




#41
Methacrylonitrile
Concen: 46.415 ug/l
RT: 4.983 min Scan# 61
Delta R.T. 0.079 min
Lab File: VX048543.D
Acq: 10 Nov 2025 16:29

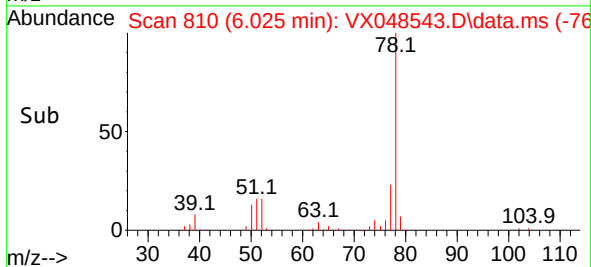
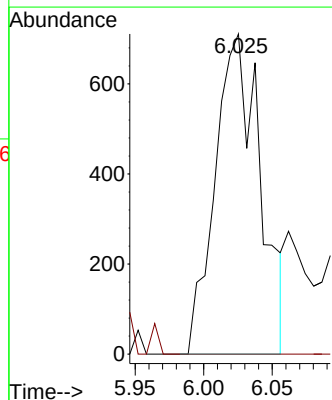
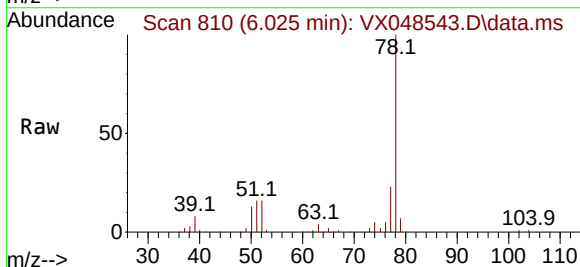
Instrument :
MSVOA_X
ClientSampleId :

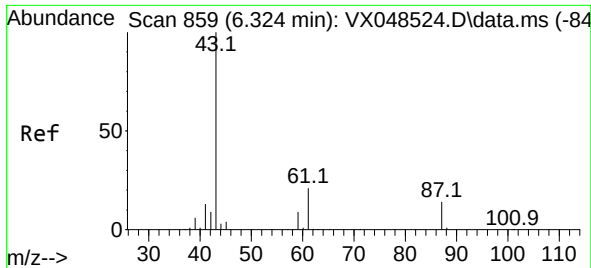
Tgt Ion: 41 Resp: 125780
Ion Ratio Lower Upper
41 100
39 40.3 41.1 61.7#
67 0.0 64.2 96.2#
52 0.0 25.6 38.4#



#42
1,2-Dichloroethane
Concen: 0.348 ug/l
RT: 6.025 min Scan# 810
Delta R.T. -0.049 min
Lab File: VX048543.D
Acq: 10 Nov 2025 16:29

Tgt Ion: 62 Resp: 1618
Ion Ratio Lower Upper
62 100
98 0.0 0.0 19.6

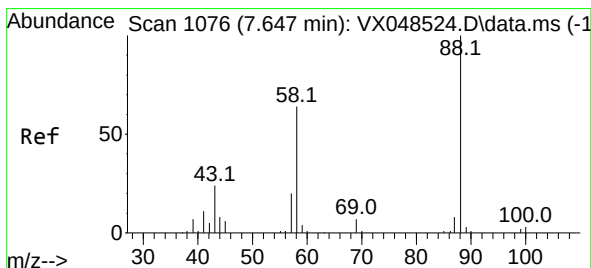
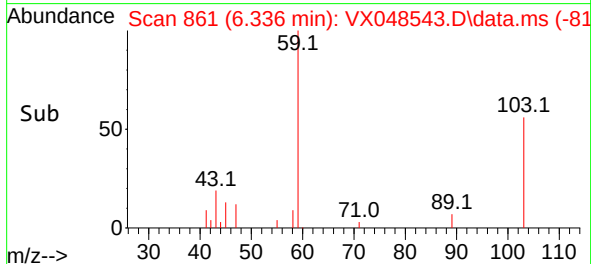
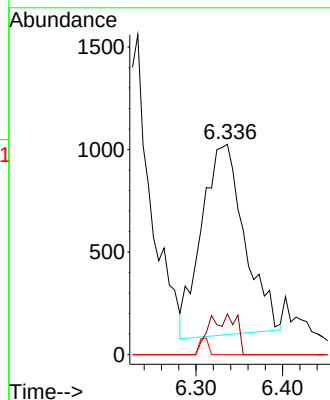
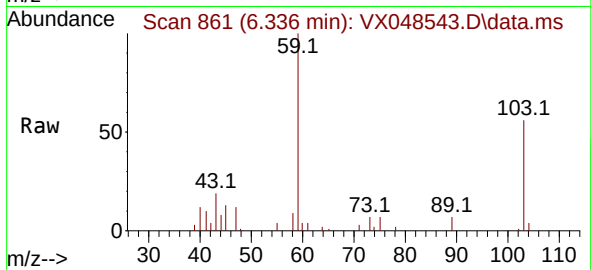




#43
Isopropyl Acetate
Concen: 0.370 ug/l
RT: 6.336 min Scan# 81
Delta R.T. 0.012 min
Lab File: VX048543.D
Acq: 10 Nov 2025 16:29

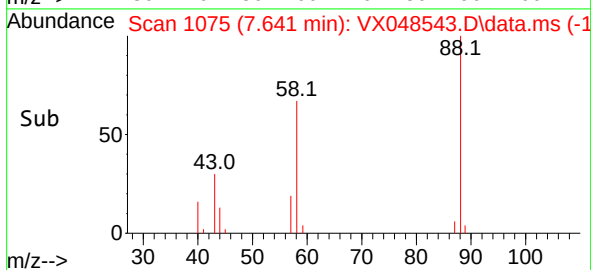
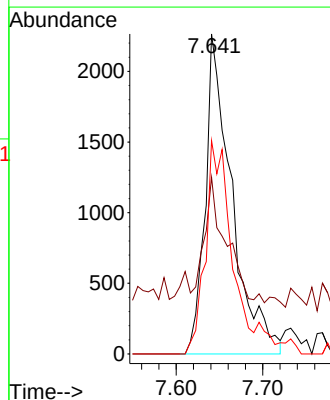
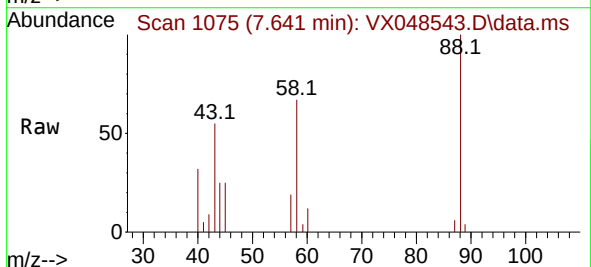
Instrument :
MSVOA_X
ClientSampleId :

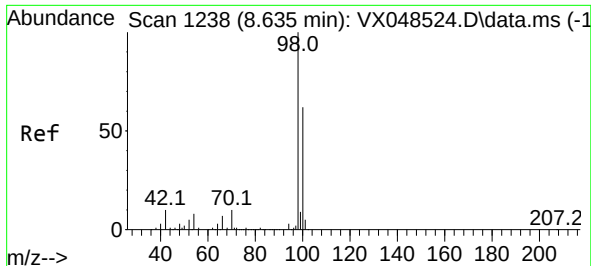
Tgt Ion: 43 Resp: 3206
Ion Ratio Lower Upper
43 100
61 6.1 16.2 24.4#
87 0.0 10.9 16.3#



#49
1,4-Dioxane
Concen: 82.117 ug/l
RT: 7.641 min Scan# 1075
Delta R.T. -0.006 min
Lab File: VX048543.D
Acq: 10 Nov 2025 16:29

Tgt Ion: 88 Resp: 4818
Ion Ratio Lower Upper
88 100
43 29.4 25.1 37.7
58 64.0 56.7 85.1

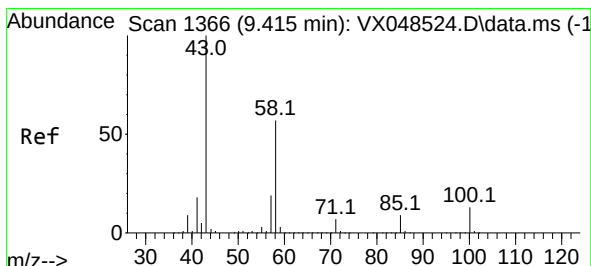
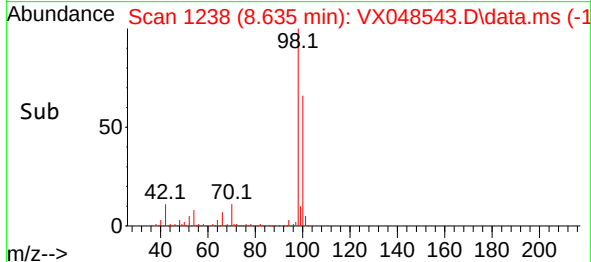
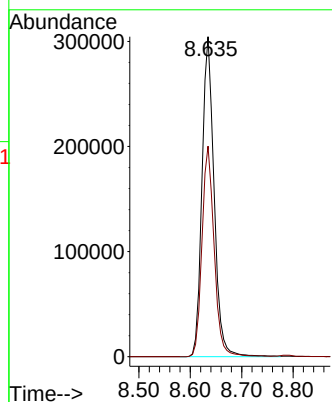
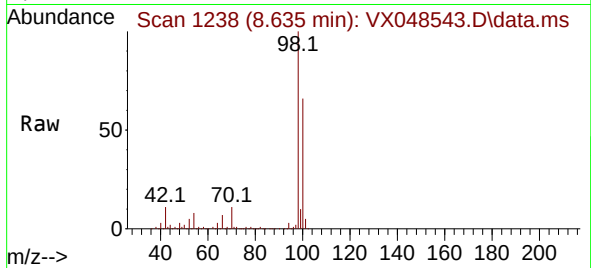




#50
Toluene-d8
Concen: 48.793 ug/l
RT: 8.635 min Scan# 11
Delta R.T. -0.000 min
Lab File: VX048543.D
Acq: 10 Nov 2025 16:29

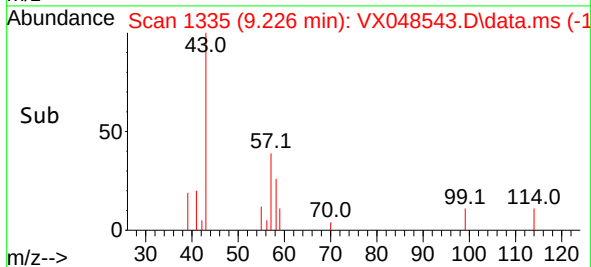
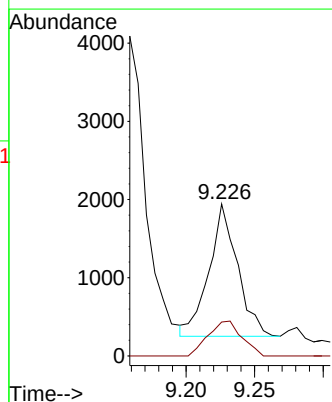
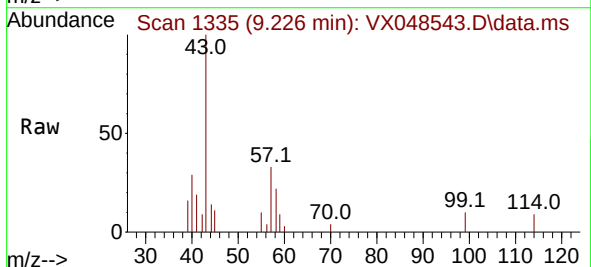
Instrument :
MSVOA_X
ClientSampleId :

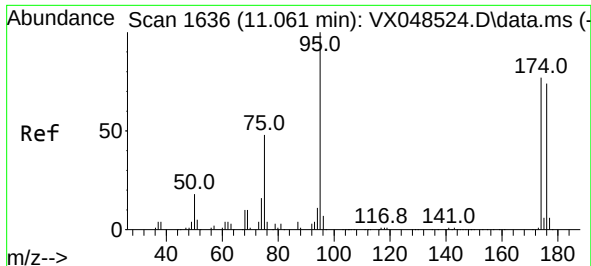
Tgt Ion: 98 Resp: 497489
Ion Ratio Lower Upper
98 100
100 66.2 53.6 80.4



#59
2-Hexanone
Concen: 0.667 ug/l
RT: 9.226 min Scan# 1335
Delta R.T. -0.189 min
Lab File: VX048543.D
Acq: 10 Nov 2025 16:29

Tgt Ion: 43 Resp: 2446
Ion Ratio Lower Upper
43 100
58 31.1 28.1 84.2





#62

4-Bromofluorobenzene

Concen: 55.405 ug/l

RT: 11.061 min Scan# 1

Delta R.T. -0.000 min

Lab File: VX048543.D

Acq: 10 Nov 2025 16:29

Instrument :

MSVOA_X

ClientSampleId :

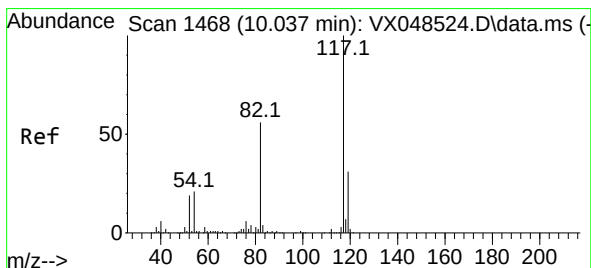
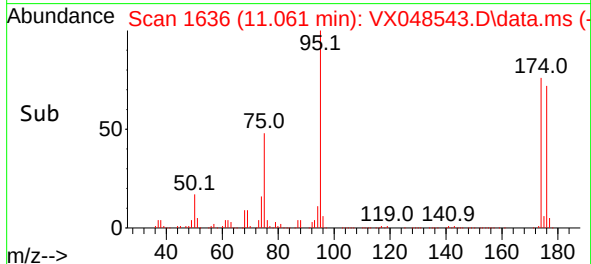
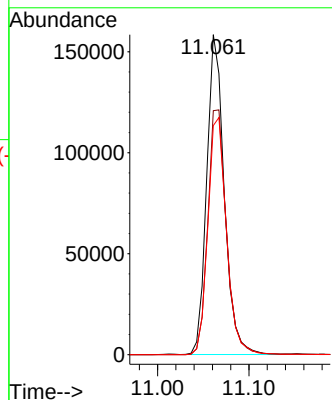
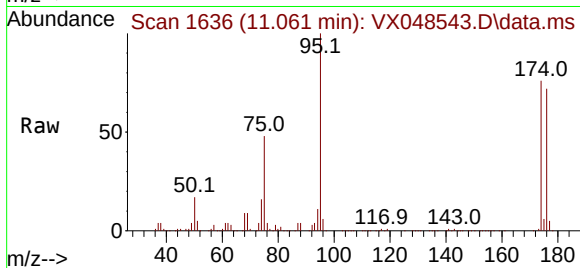
Tgt Ion: 95 Resp: 210524

Ion Ratio Lower Upper

95 100

174 81.4 0.0 161.8

176 79.0 0.0 153.6



#63

Chlorobenzene-d5

Concen: 50.000 ug/l

RT: 10.037 min Scan# 1468

Delta R.T. -0.000 min

Lab File: VX048543.D

Acq: 10 Nov 2025 16:29

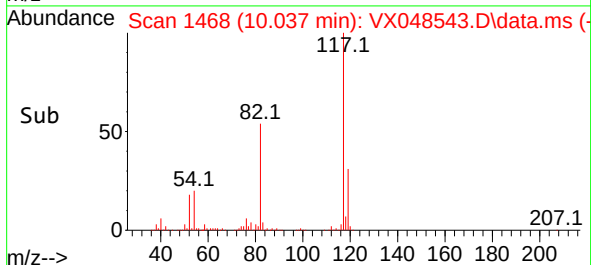
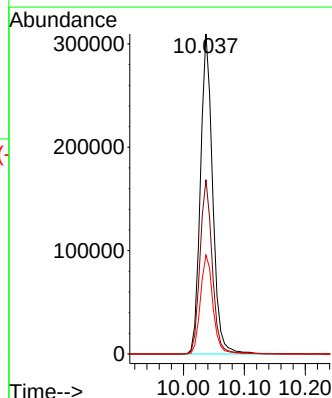
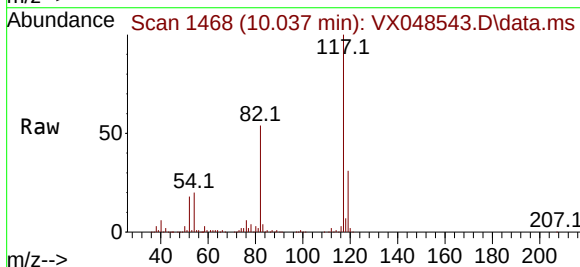
Tgt Ion: 117 Resp: 431296

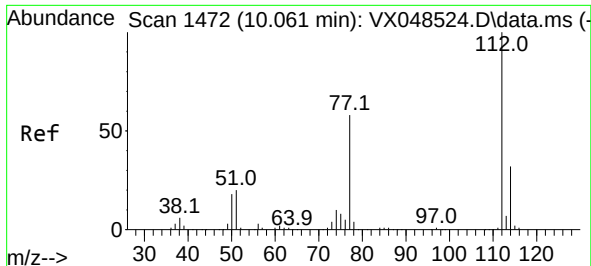
Ion Ratio Lower Upper

117 100

82 54.4 44.4 66.6

119 30.9 25.1 37.7





#65

Chlorobenzene

Concen: 65.951 ug/l

RT: 10.061 min Scan# 1472

Delta R.T. -0.000 min

Lab File: VX048543.D

Acq: 10 Nov 2025 16:29

Instrument :

MSVOA_X

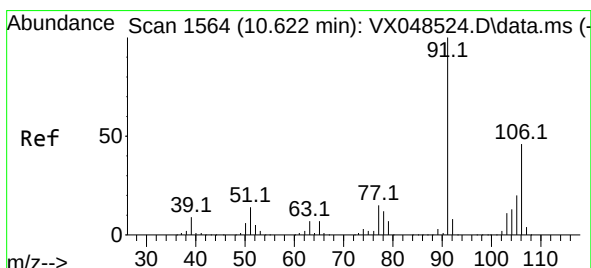
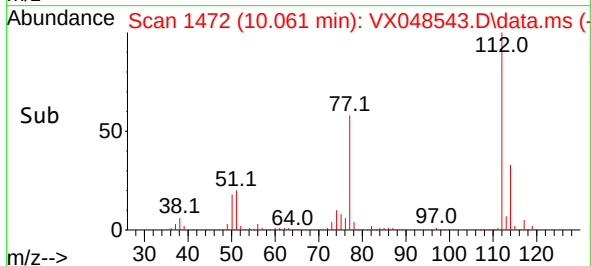
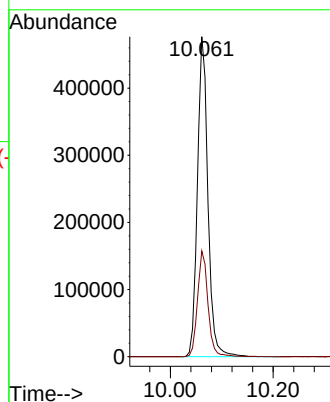
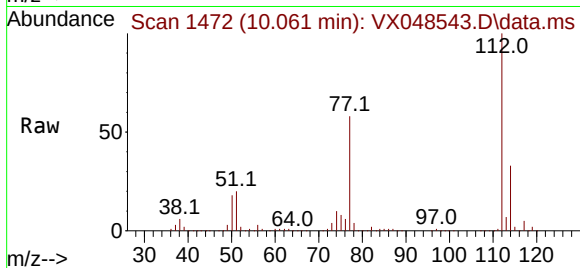
ClientSampleId :

Tgt Ion:112 Resp: 675136

Ion Ratio Lower Upper

112 100

114 33.1 25.5 38.3



#69

o-Xylene

Concen: 0.240 ug/l

RT: 10.622 min Scan# 1564

Delta R.T. -0.000 min

Lab File: VX048543.D

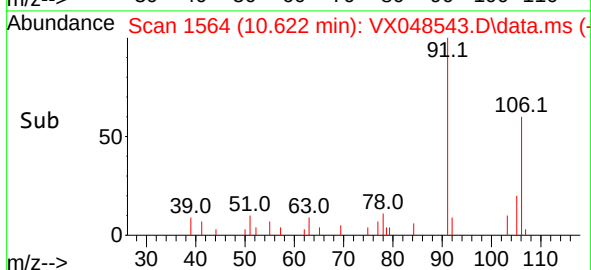
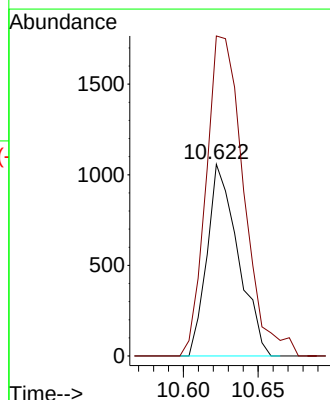
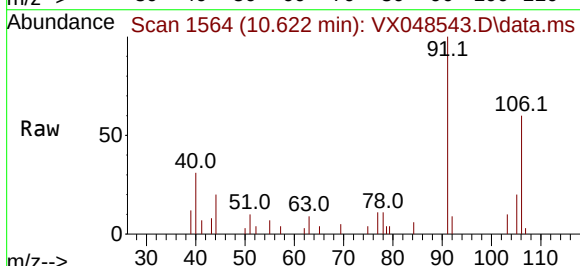
Acq: 10 Nov 2025 16:29

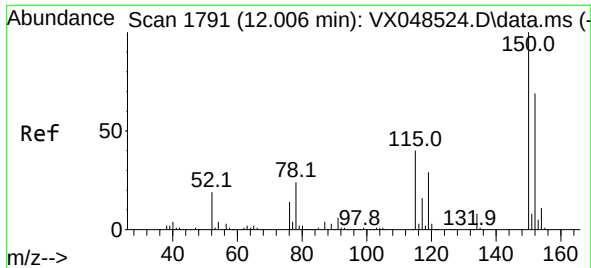
Tgt Ion:106 Resp: 1523

Ion Ratio Lower Upper

106 100

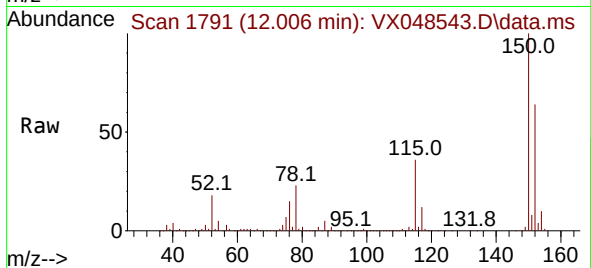
91 202.6 106.4 319.2



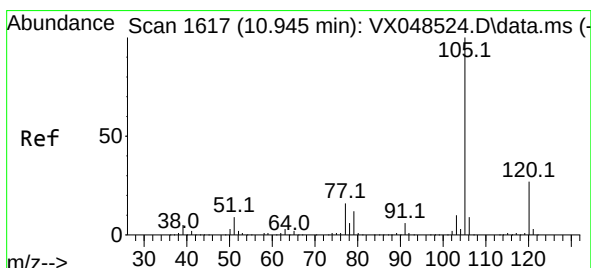
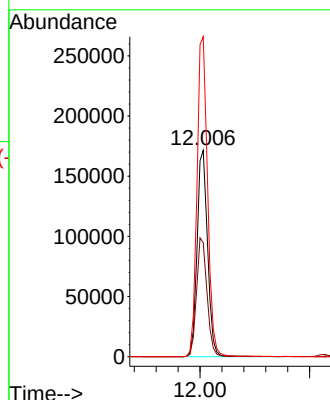
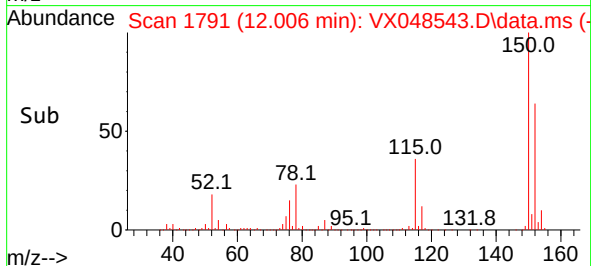


#72
 1,4-Dichlorobenzene-d4
 Concen: 50.000 ug/l
 RT: 12.006 min Scan# 11
 Delta R.T. -0.000 min
 Lab File: VX048543.D
 Acq: 10 Nov 2025 16:29

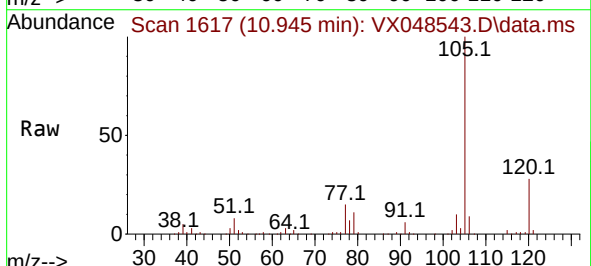
Instrument :
 MSVOA_X
 ClientSampleId :



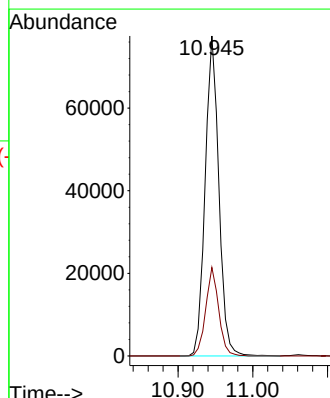
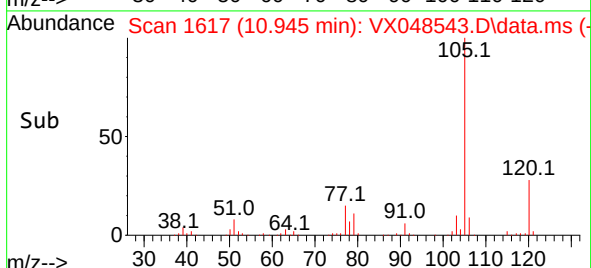
Tgt Ion:152 Resp: 228614
 Ion Ratio Lower Upper
 152 100
 115 57.6 39.2 117.6
 150 156.2 0.0 347.0

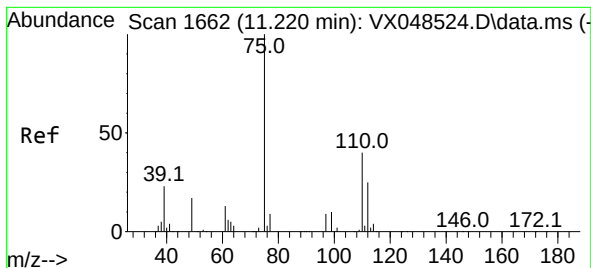


#73
 Isopropylbenzene
 Concen: 5.922 ug/l
 RT: 10.945 min Scan# 1617
 Delta R.T. -0.000 min
 Lab File: VX048543.D
 Acq: 10 Nov 2025 16:29



Tgt Ion:105 Resp: 98271
 Ion Ratio Lower Upper
 105 100
 120 26.3 13.6 40.7





#76

1,2,3-Trichloropropane

Concen: 18.391 ug/l

RT: 11.061 min Scan# 1636

Delta R.T. -0.159 min

Lab File: VX048543.D

Acq: 10 Nov 2025 16:29

Instrument :

MSVOA_X

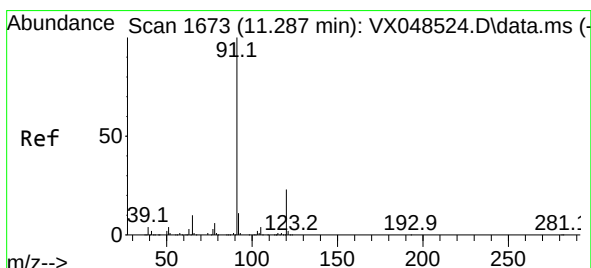
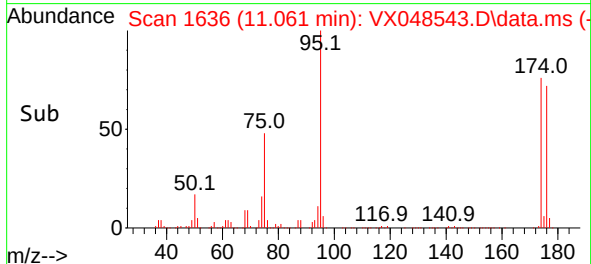
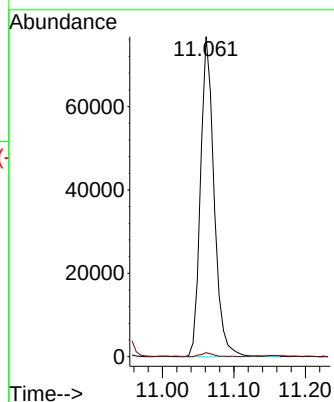
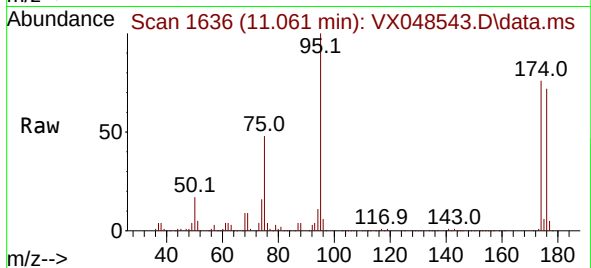
ClientSampleId :

Tgt Ion: 75 Resp: 101290

Ion Ratio Lower Upper

75 100

77 1.2 24.3 72.8#



#78

n-propylbenzene

Concen: 0.261 ug/l

RT: 11.287 min Scan# 1673

Delta R.T. -0.000 min

Lab File: VX048543.D

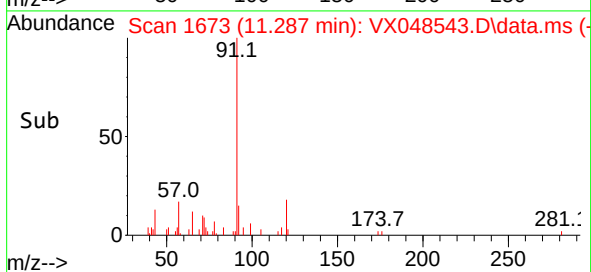
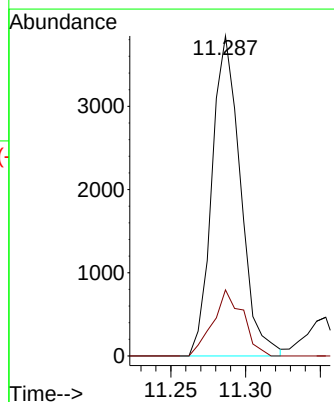
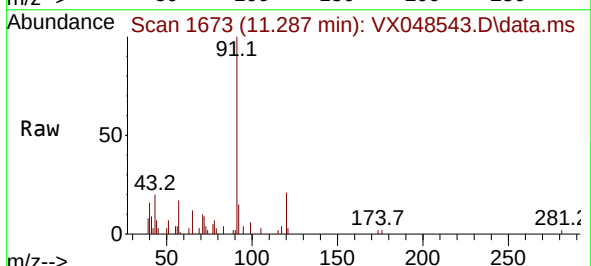
Acq: 10 Nov 2025 16:29

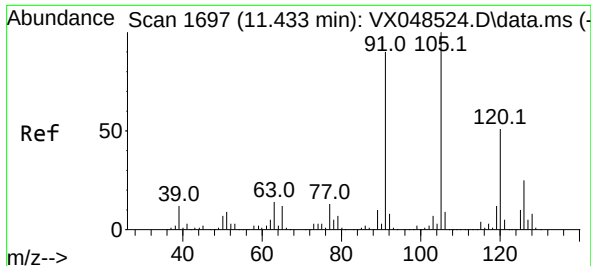
Tgt Ion: 91 Resp: 5100

Ion Ratio Lower Upper

91 100

120 21.7 11.6 34.8

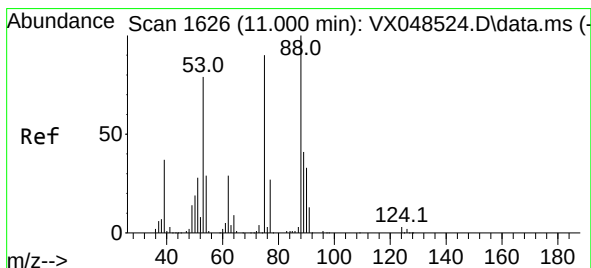
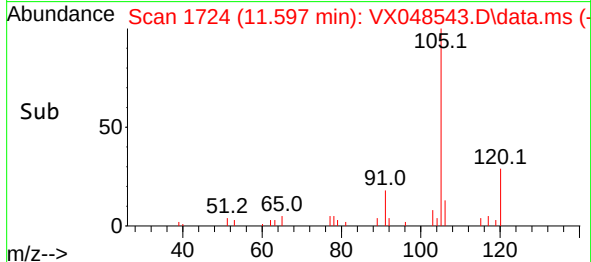
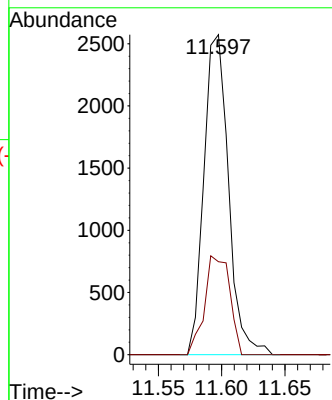
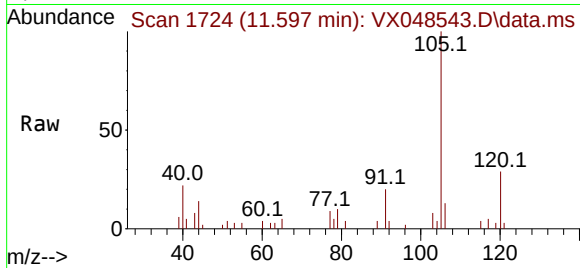




#80
1,3,5-Trimethylbenzene
Concen: 0.257 ug/l
RT: 11.597 min Scan# 11
Delta R.T. 0.164 min
Lab File: VX048543.D
Acq: 10 Nov 2025 16:29

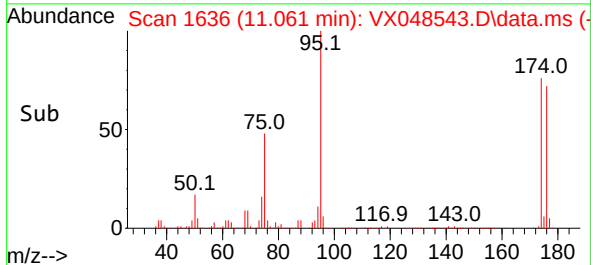
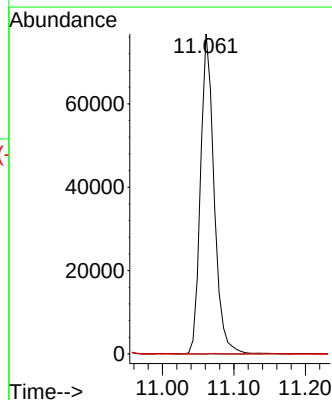
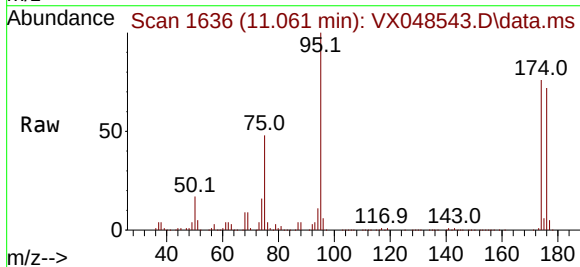
Instrument :
MSVOA_X
ClientSampleId :

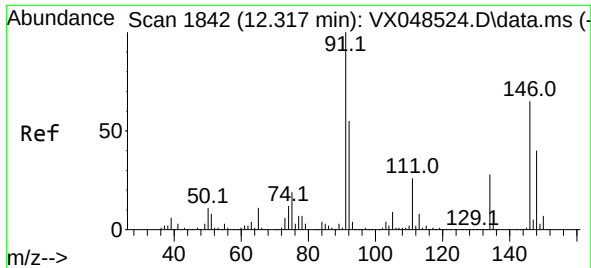
Tgt Ion:105 Resp: 3481
Ion Ratio Lower Upper
105 100
120 31.5 25.1 75.2



#81
trans-1,4-Dichloro-2-butene
Concen: 52.604 ug/l
RT: 11.061 min Scan# 1636
Delta R.T. 0.061 min
Lab File: VX048543.D
Acq: 10 Nov 2025 16:29

Tgt Ion: 75 Resp: 101290
Ion Ratio Lower Upper
75 100
53 0.1 72.4 108.6#
89 0.0 43.6 65.4#





#91

1,2-Dichlorobenzene

Concen: 0.354 ug/l

RT: 12.323 min Scan# 11

Delta R.T. 0.006 min

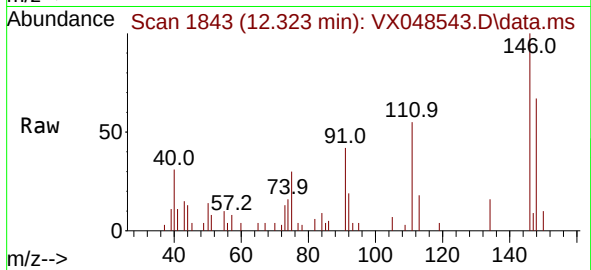
Lab File: VX048543.D

Acq: 10 Nov 2025 16:29

Instrument :

MSVOA_X

ClientSampleId :



Tgt Ion:146 Resp: 2732

Ion Ratio Lower Upper

146 100

111 48.6 20.6 61.9

148 66.0 31.4 94.2

