

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX020325\
 Data File : VX044807.D
 Acq On : 03 Feb 2025 11:55
 Operator : JC/MD
 Sample : PB166357TB
 Misc : 5.0mL/MSVOA_X/WATER
 ALS Vial : 7 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :

Quant Time: Feb 04 02:07:23 2025
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X011525W.M
 Quant Title : SW846 8260
 QLast Update : Thu Jan 16 01:16:09 2025
 Response via : Initial Calibration

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

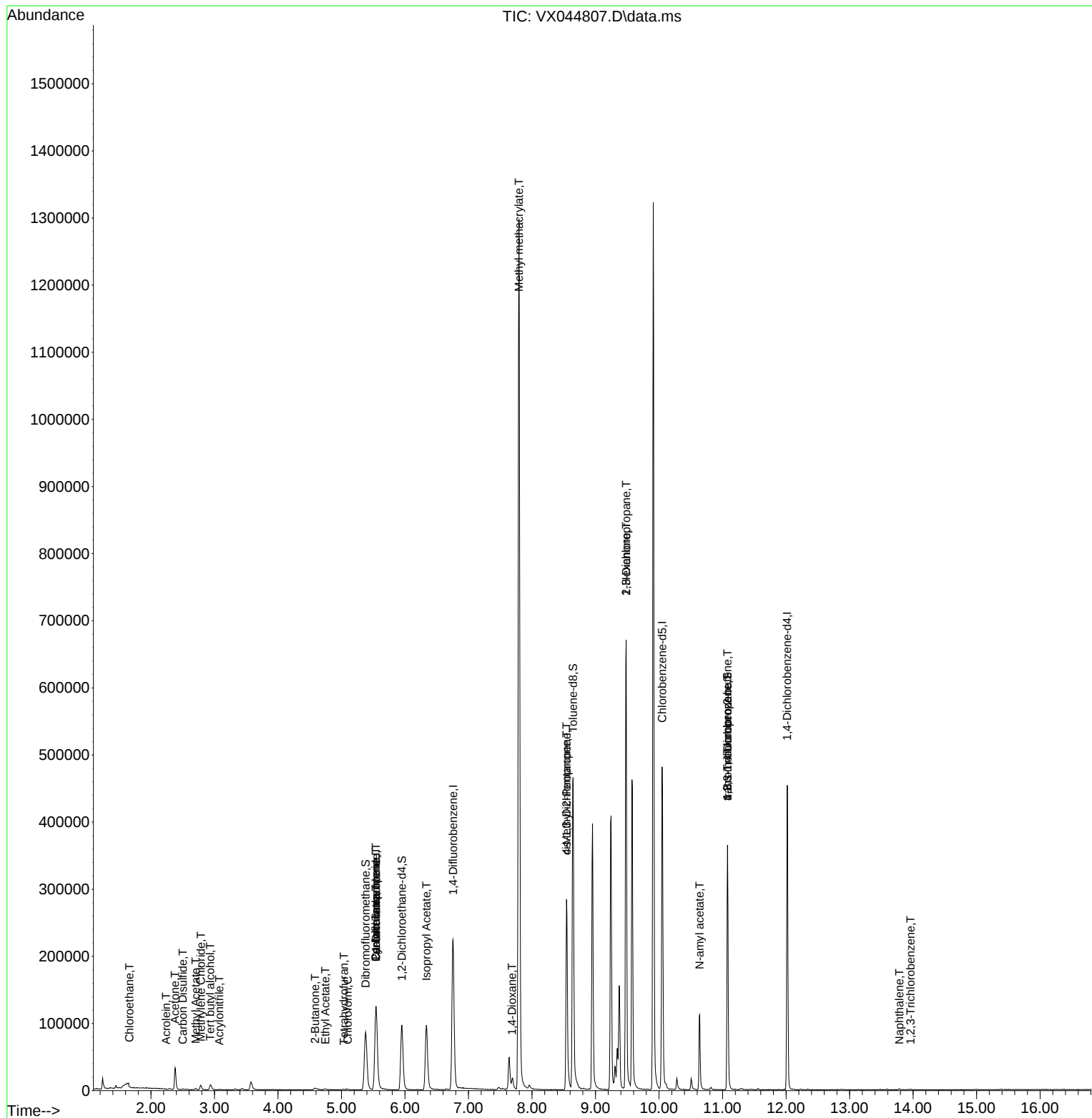
Internal Standards						
1) Pentafluorobenzene	5.544	168	120503	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	6.757	114	240248	50.000	ug/l	0.00
63) Chlorobenzene-d5	10.049	117	214774	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.018	152	90113	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	5.952	65	89072	48.970	ug/l	0.00
Spiked Amount	50.000	Range 74 - 125	Recovery	=	97.940%	
35) Dibromofluoromethane	5.379	113	77998	51.104	ug/l	0.00
Spiked Amount	50.000	Range 75 - 124	Recovery	=	102.200%	
50) Toluene-d8	8.647	98	301141	56.587	ug/l	0.00
Spiked Amount	50.000	Range 86 - 113	Recovery	=	113.180%#	
62) 4-Bromofluorobenzene	11.079	95	103041	51.939	ug/l	0.00
Spiked Amount	50.000	Range 77 - 121	Recovery	=	103.880%	
Target Compounds						
					Qvalue	
6) Chloroethane	1.660	64	200	0.629	ug/l #	41
11) Tert butyl alcohol	2.934	59	4638	11.438	ug/l #	85
13) Acrolein	2.239	56	220	1.153	ug/l #	15
15) Acrylonitrile	3.075	53	327	0.411	ug/l #	66
16) Acetone	2.380	43	34521	47.970	ug/l	98
17) Carbon Disulfide	2.502	76	1271	0.330	ug/l #	79
18) Methyl Acetate	2.703	43	2414	1.087	ug/l	91
20) Methylene Chloride	2.788	84	3544	2.115	ug/l #	94
25) 2-Butanone	4.587	43	4411	4.123	ug/l	94
29) Tetrahydrofuran	5.038	42	743	1.077	ug/l #	42
30) Chloroform	5.099	83	1066	0.373	ug/l	87
31) Cyclohexane	5.544	56	3210	1.402	ug/l #	17
36) 1,1-Dichloropropene	5.544	75	10511	4.947	ug/l #	46
37) Ethyl Acetate	4.745	43	2413	1.067	ug/l #	93
38) Carbon Tetrachloride	5.544	117	12603	5.274	ug/l #	17
43) Isopropyl Acetate	6.336	43	138341	33.238	ug/l	99
48) Methyl methacrylate	7.793	41	106962	55.363	ug/l #	42
49) 1,4-Dioxane	7.684	88	40	0.992	ug/l #	1
51) 4-Methyl-2-Pentanone	8.543	43	106617	46.352	ug/l #	49
54) cis-1,3-Dichloropropene	8.543	75	49439	17.058	ug/l #	58
57) 1,3-Dichloropropane	9.482	76	6536	2.354	ug/l #	42
59) 2-Hexanone	9.482	43	84770	50.094	ug/l #	51
74) N-amyl acetate	10.640	43	29236	8.057	ug/l #	51
76) 1,2,3-Trichloropropane	11.079	75	51642	23.614	ug/l #	32
81) trans-1,4-Dichloro-2-b...	11.079	75	51642	54.002	ug/l #	12
95) Naphthalene	13.786	128	1929	0.273	ug/l #	89
96) 1,2,3-Trichlorobenzene	13.963	180	410	0.216	ug/l	83

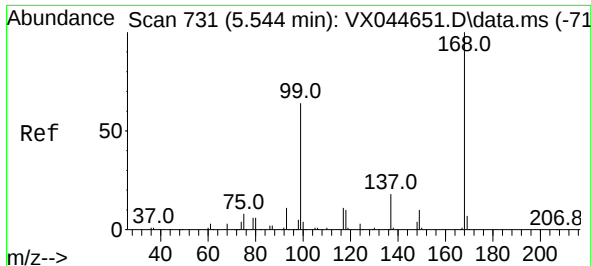
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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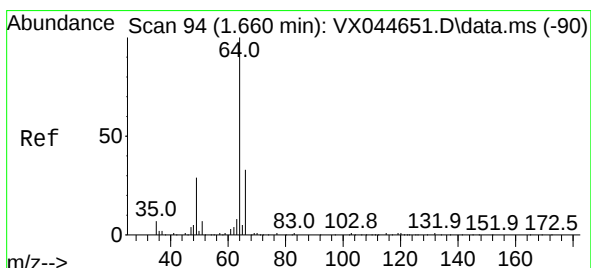
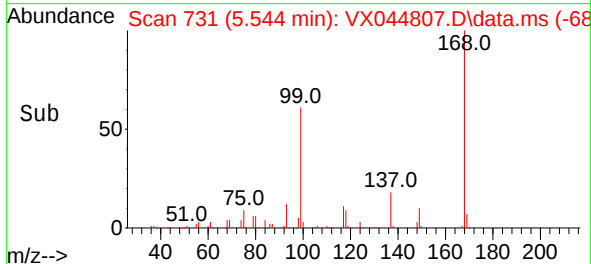
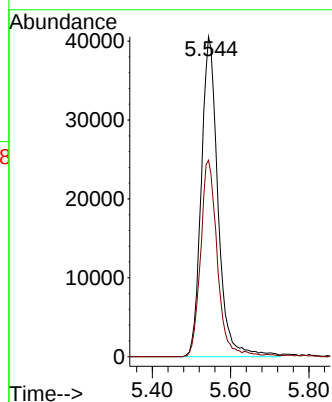
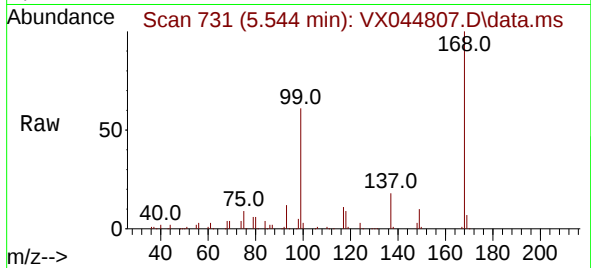




#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 5.544 min Scan# 71
Delta R.T. -0.000 min
Lab File: VX044807.D
Acq: 03 Feb 2025 11:55

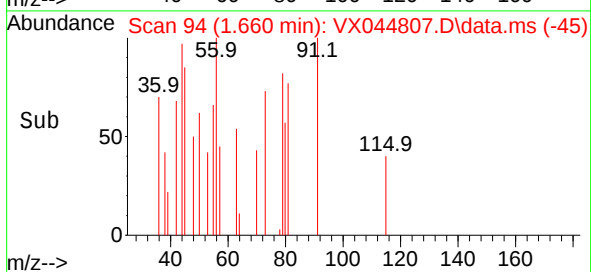
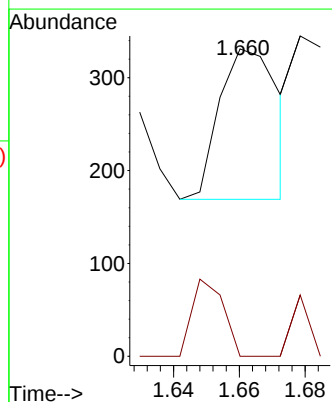
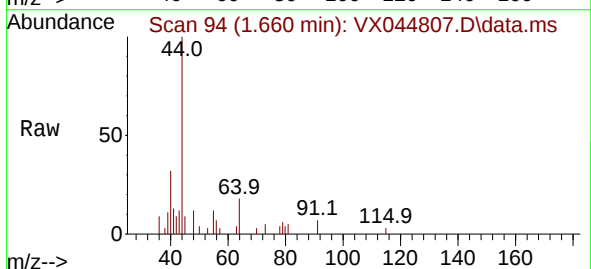
Instrument :
MSVOA_X
ClientSampleId :

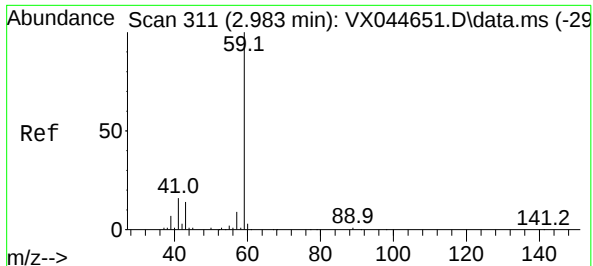
Tgt Ion:168 Resp: 120503
Ion Ratio Lower Upper
168 100
99 61.4 51.1 76.7



#6
Chloroethane
Concen: 0.629 ug/l
RT: 1.660 min Scan# 94
Delta R.T. 0.000 min
Lab File: VX044807.D
Acq: 03 Feb 2025 11:55

Tgt Ion: 64 Resp: 200
Ion Ratio Lower Upper
64 100
66 0.0 26.6 39.8#

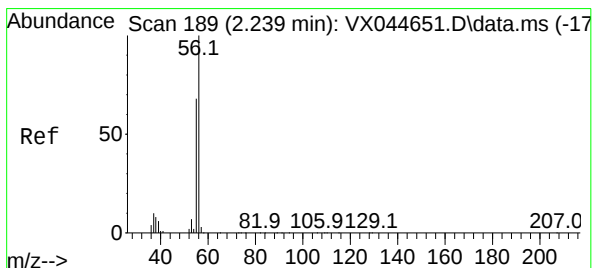
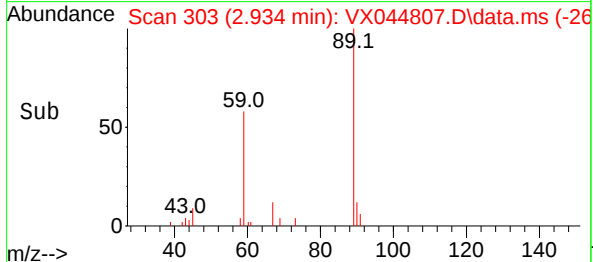
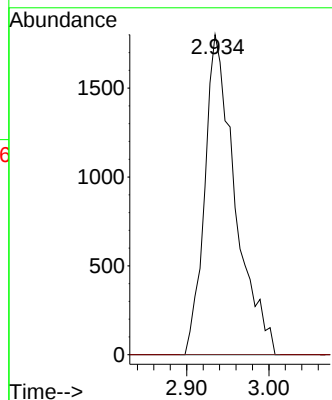
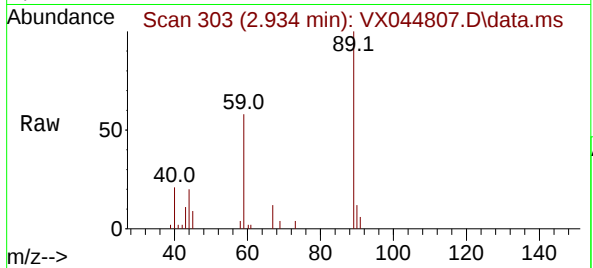




#11
Tert butyl alcohol
Concen: 11.438 ug/l
RT: 2.934 min Scan# 30
Delta R.T. -0.049 min
Lab File: VX044807.D
Acq: 03 Feb 2025 11:55

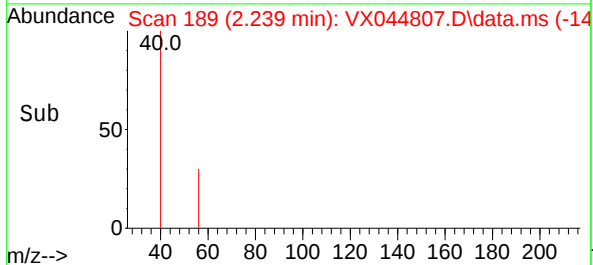
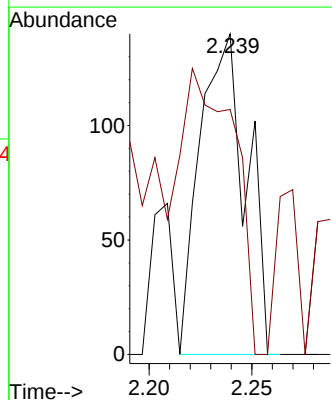
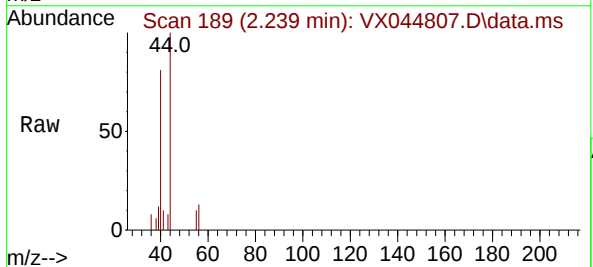
Instrument :
MSVOA_X
ClientSampleId :

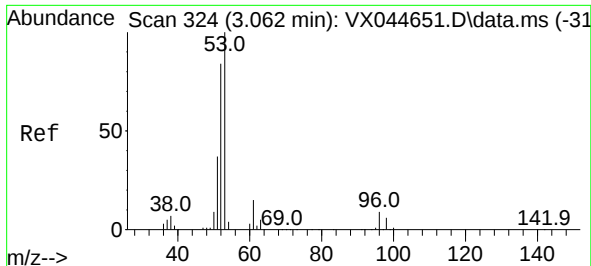
Tgt Ion: 59 Resp: 4638
Ion Ratio Lower Upper
59 100
57 0.0 3.9 5.9#



#13
Acrolein
Concen: 1.153 ug/l
RT: 2.239 min Scan# 189
Delta R.T. 0.000 min
Lab File: VX044807.D
Acq: 03 Feb 2025 11:55

Tgt Ion: 56 Resp: 220
Ion Ratio Lower Upper
56 100
55 0.0 55.1 82.7#





#15

Acrylonitrile

Concen: 0.411 ug/l

RT: 3.075 min Scan# 31

Delta R.T. 0.012 min

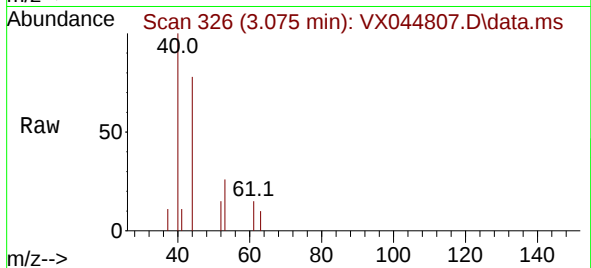
Lab File: VX044807.D

Acq: 03 Feb 2025 11:55

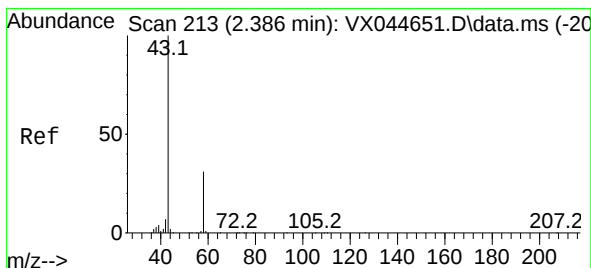
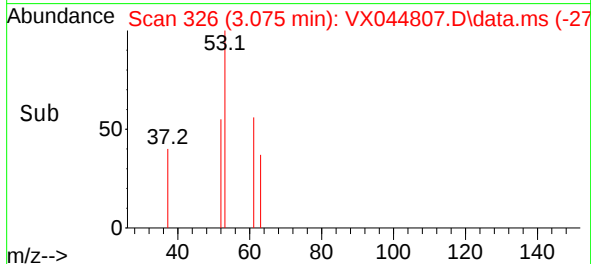
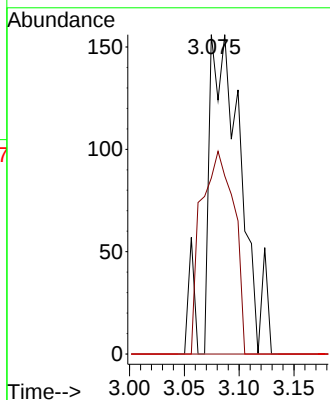
Instrument :

MSVOA_X

ClientSampleId :



Tgt Ion: 53	Resp:	327
Ion	Ratio	Lower Upper
53	100	
52	63.3	66.0 99.0#
51	0.0	28.9 43.3#



#16

Acetone

Concen: 47.970 ug/l

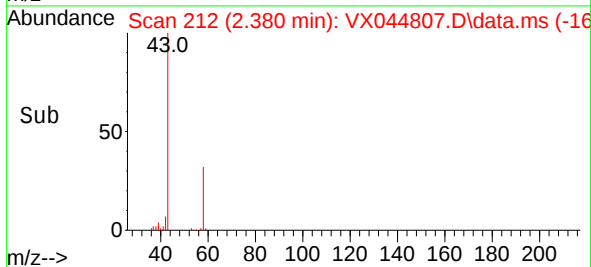
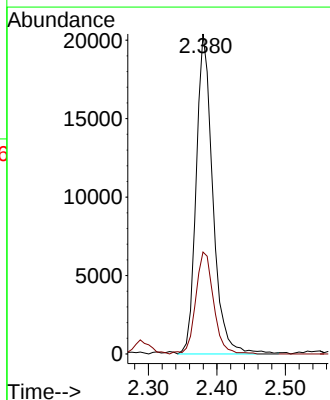
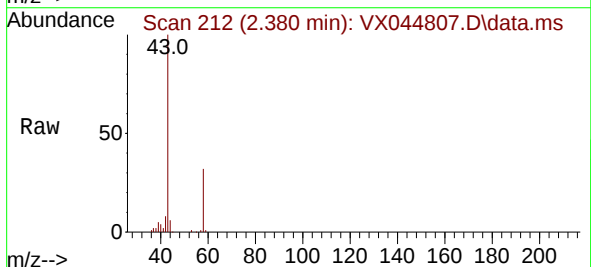
RT: 2.380 min Scan# 212

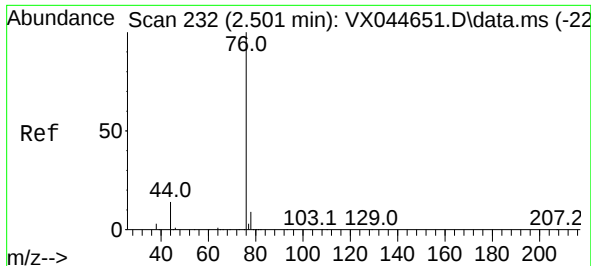
Delta R.T. -0.006 min

Lab File: VX044807.D

Acq: 03 Feb 2025 11:55

Tgt Ion: 43	Resp:	34521
Ion	Ratio	Lower Upper
43	100	
58	31.9	24.6 37.0

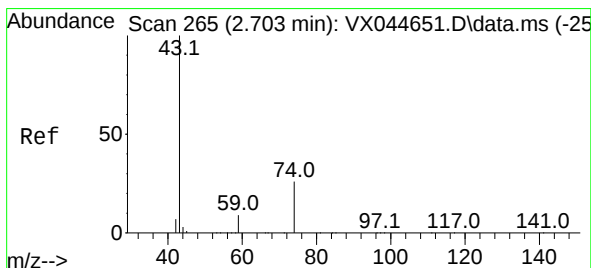
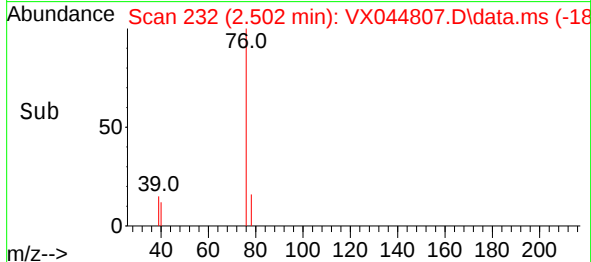
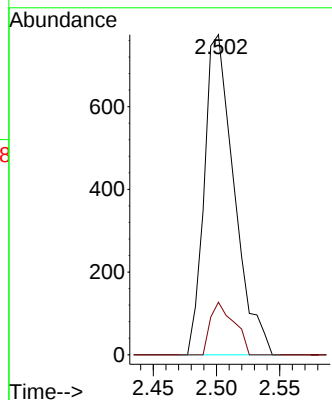
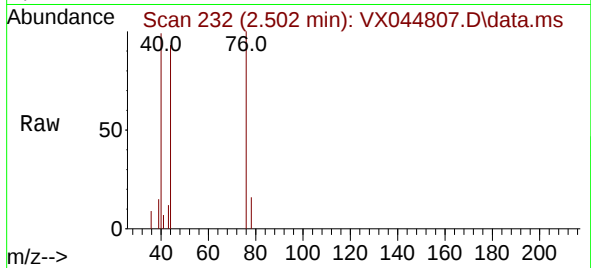




#17
Carbon Disulfide
Concen: 0.330 ug/l
RT: 2.502 min Scan# 24
Delta R.T. 0.000 min
Lab File: VX044807.D
Acq: 03 Feb 2025 11:55

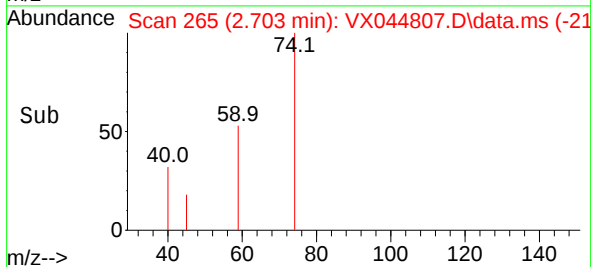
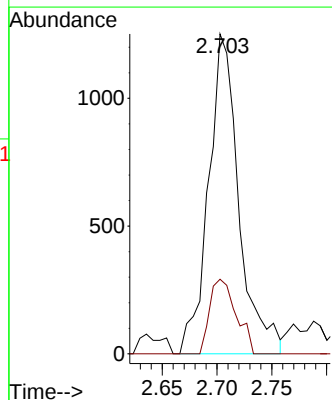
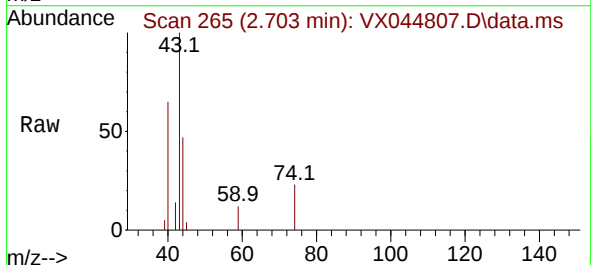
Instrument :
MSVOA_X
ClientSampleId :

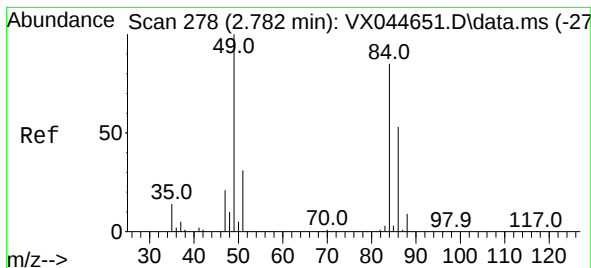
Tgt Ion: 76 Resp: 1271
Ion Ratio Lower Upper
76 100
78 16.4 7.1 10.7#



#18
Methyl Acetate
Concen: 1.087 ug/l
RT: 2.703 min Scan# 265
Delta R.T. 0.000 min
Lab File: VX044807.D
Acq: 03 Feb 2025 11:55

Tgt Ion: 43 Resp: 2414
Ion Ratio Lower Upper
43 100
74 20.3 19.8 29.8





#20

Methylene Chloride

Concen: 2.115 ug/l

RT: 2.788 min Scan# 21

Delta R.T. 0.006 min

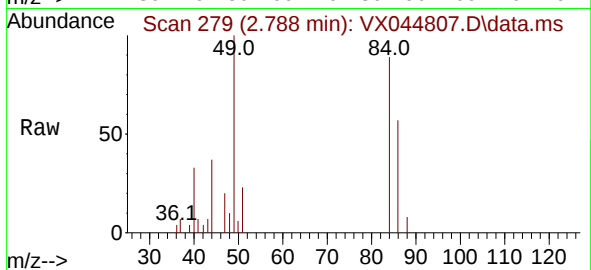
Lab File: VX044807.D

Acq: 03 Feb 2025 11:55

Instrument :

MSVOA_X

ClientSampleId :



Tgt Ion: 84 Resp: 3544

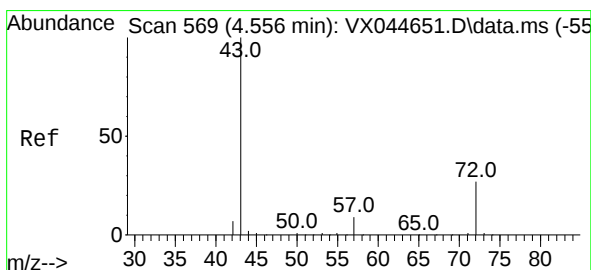
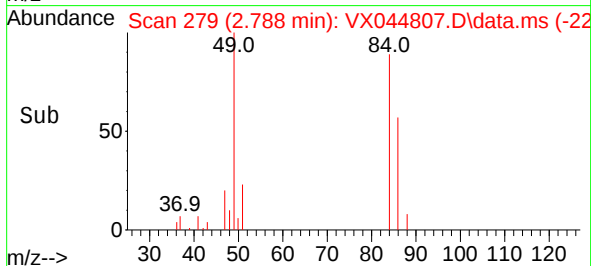
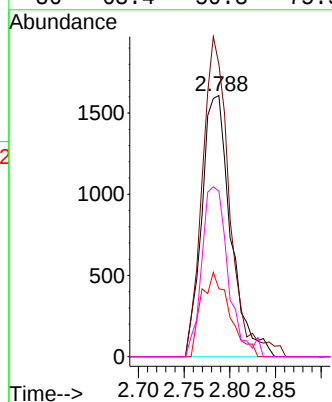
Ion Ratio Lower Upper

84 100

49 111.9 94.2 141.4

51 26.0 28.8 43.2#

86 63.4 50.3 75.5



#25

2-Butanone

Concen: 4.123 ug/l

RT: 4.587 min Scan# 574

Delta R.T. 0.031 min

Lab File: VX044807.D

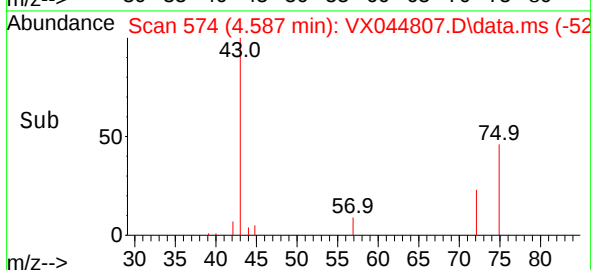
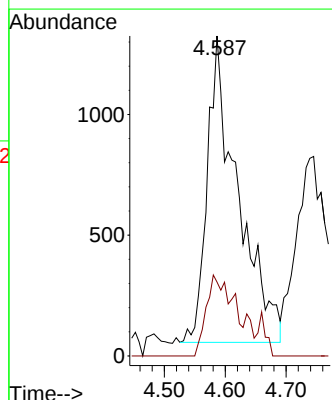
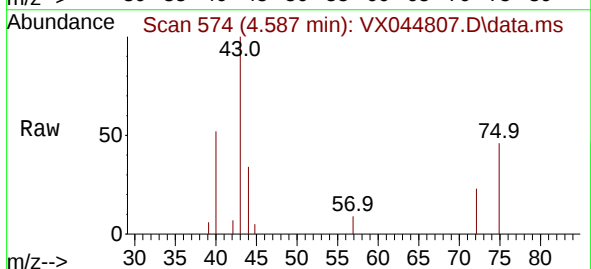
Acq: 03 Feb 2025 11:55

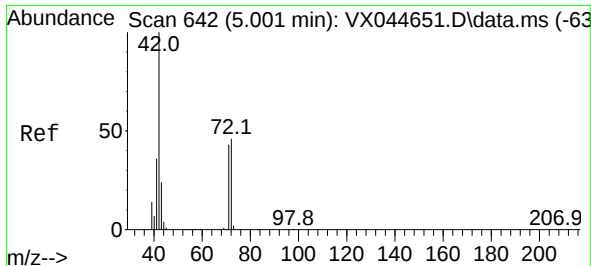
Tgt Ion: 43 Resp: 4411

Ion Ratio Lower Upper

43 100

72 24.1 21.7 32.5





#29

Tetrahydrofuran

Concen: 1.077 ug/l

RT: 5.038 min Scan# 642

Delta R.T. 0.037 min

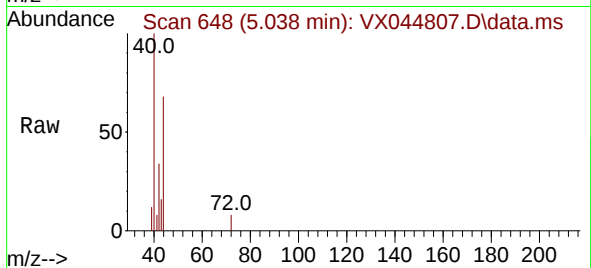
Lab File: VX044807.D

Acq: 03 Feb 2025 11:55

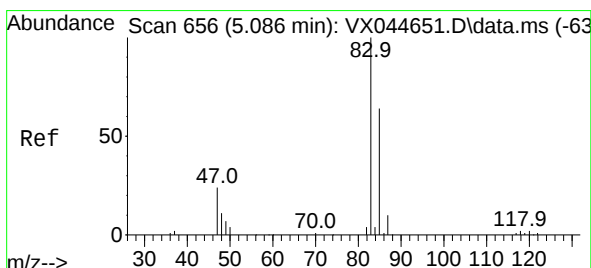
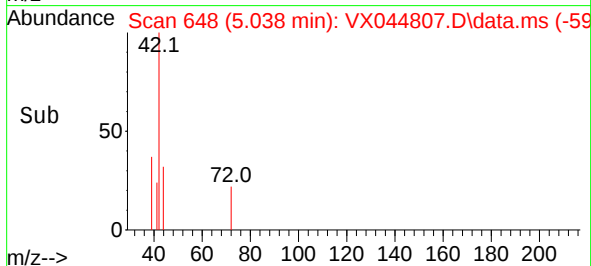
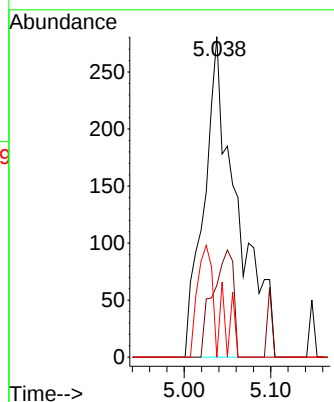
Instrument :

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Tgt Ion:	42	Resp:	743
Ion	Ratio	Lower	Upper
42	100		
72	0.0	38.2	57.4#
71	15.5	35.3	52.9#



#30

Chloroform

Concen: 0.373 ug/l

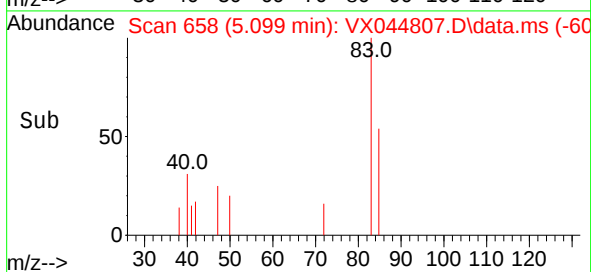
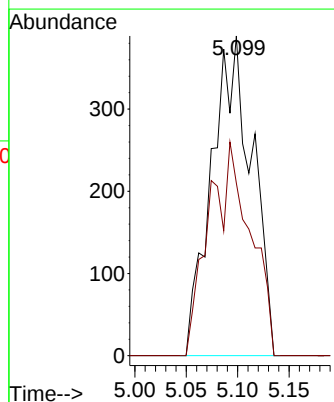
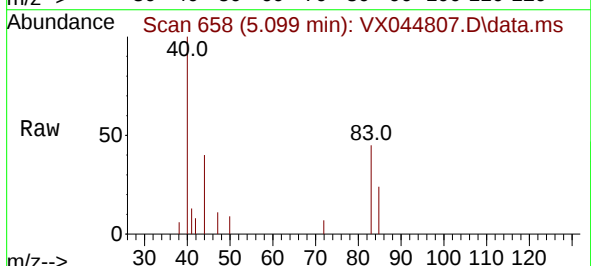
RT: 5.099 min Scan# 658

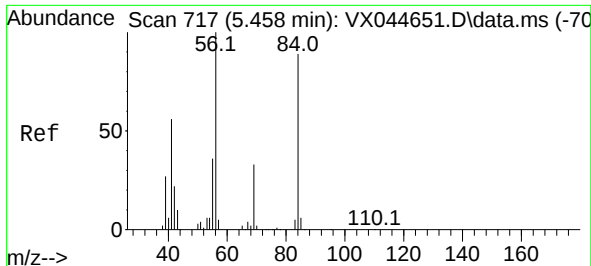
Delta R.T. 0.012 min

Lab File: VX044807.D

Acq: 03 Feb 2025 11:55

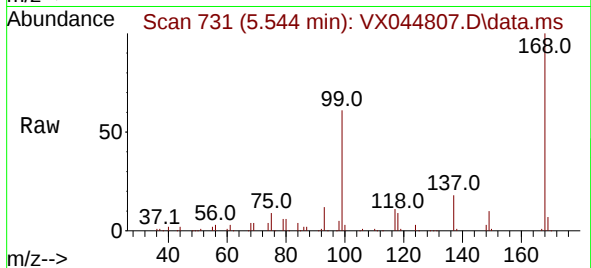
Tgt Ion:	83	Resp:	1066
Ion	Ratio	Lower	Upper
83	100		
85	54.0	51.2	76.8



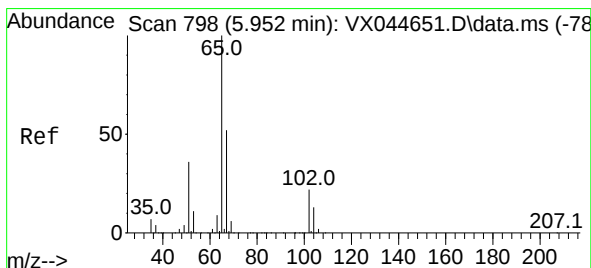
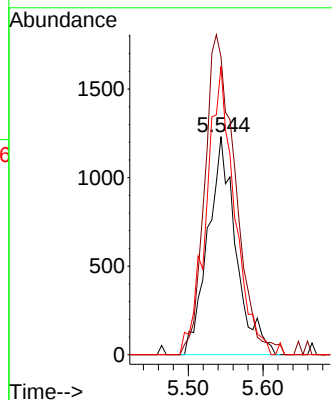
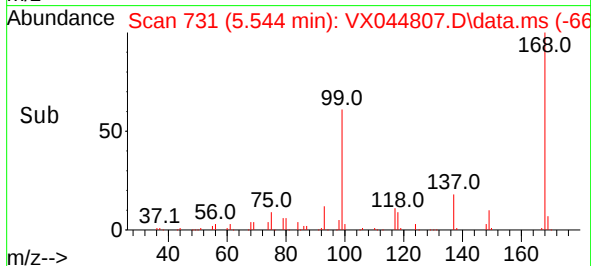


#31
Cyclohexane
Concen: 1.402 ug/l
RT: 5.544 min Scan# 717
Delta R.T. 0.085 min
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MSVOA_X
ClientSampleId :

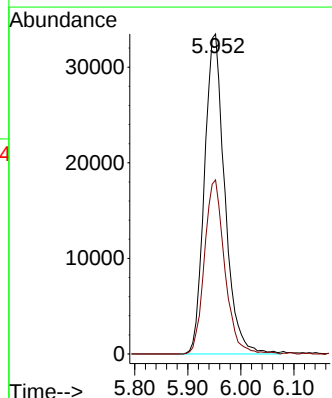
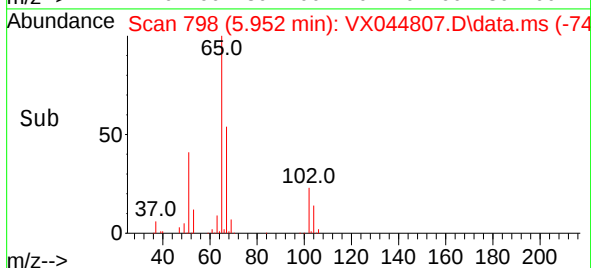
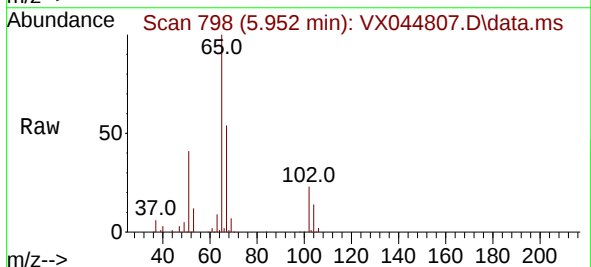


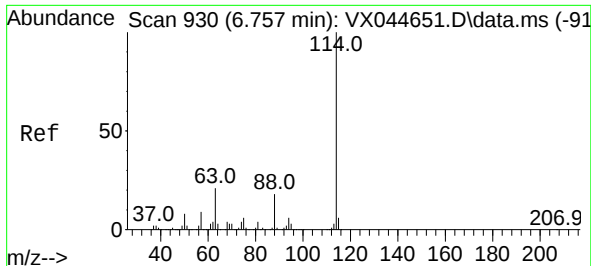
Tgt Ion: 56 Resp: 3210
Ion Ratio Lower Upper
56 100
69 136.4 26.8 40.2#
84 132.1 71.0 106.4#



#33
1,2-Dichloroethane-d4
Concen: 48.970 ug/l
RT: 5.952 min Scan# 798
Delta R.T. 0.000 min
Lab File: VX044807.D
Acq: 03 Feb 2025 11:55

Tgt Ion: 65 Resp: 89072
Ion Ratio Lower Upper
65 100
67 54.4 0.0 103.4





#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 6.757 min Scan# 91

Delta R.T. 0.000 min

Lab File: VX044807.D

Acq: 03 Feb 2025 11:55

Instrument :

MSVOA_X

ClientSampleId :

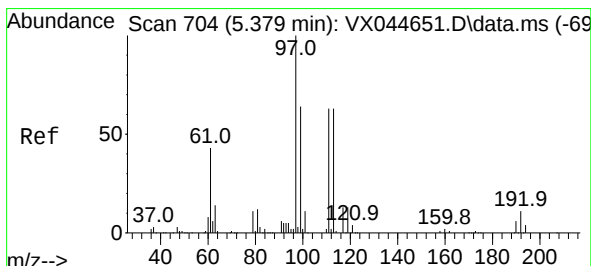
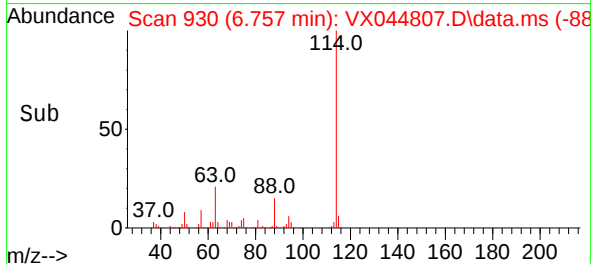
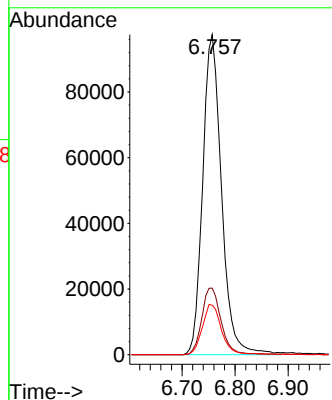
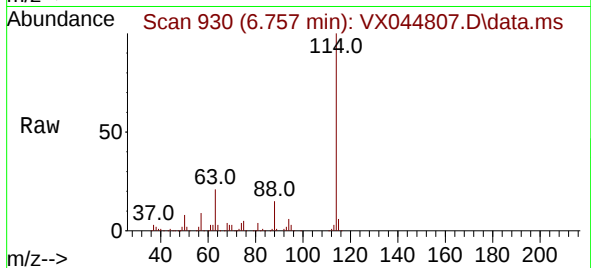
Tgt Ion:114 Resp: 240248

Ion Ratio Lower Upper

114 100

63 20.8 0.0 43.0

88 15.5 0.0 35.4



#35

Dibromofluoromethane

Concen: 51.104 ug/l

RT: 5.379 min Scan# 704

Delta R.T. 0.000 min

Lab File: VX044807.D

Acq: 03 Feb 2025 11:55

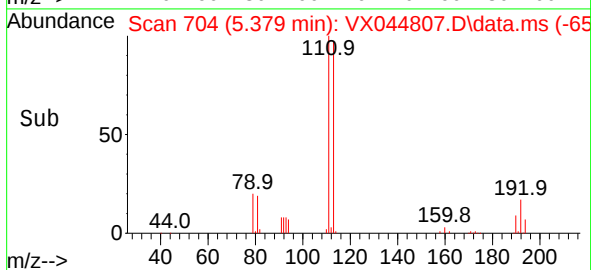
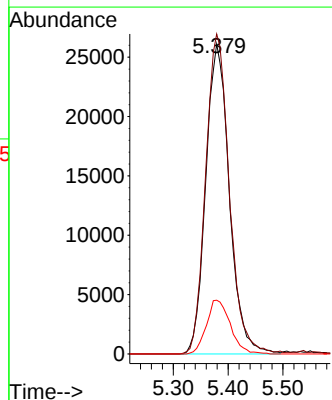
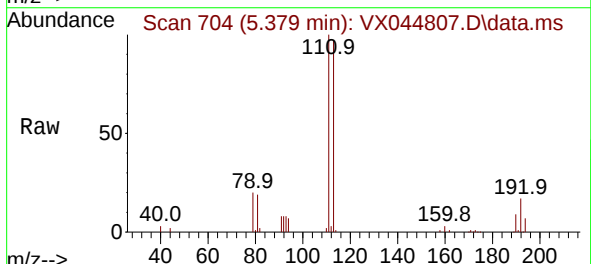
Tgt Ion:113 Resp: 77998

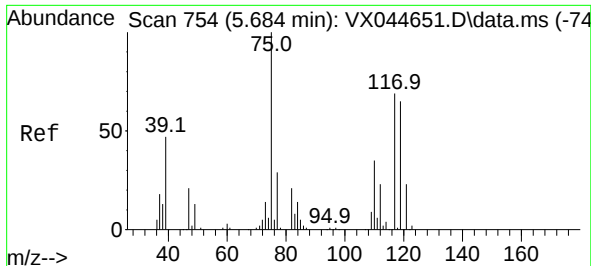
Ion Ratio Lower Upper

113 100

111 104.0 81.6 122.4

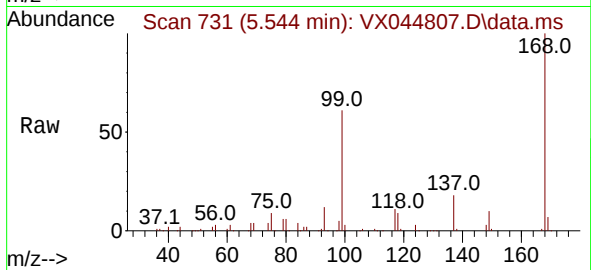
192 17.6 14.4 21.6



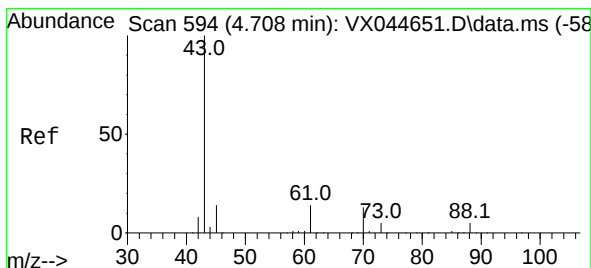
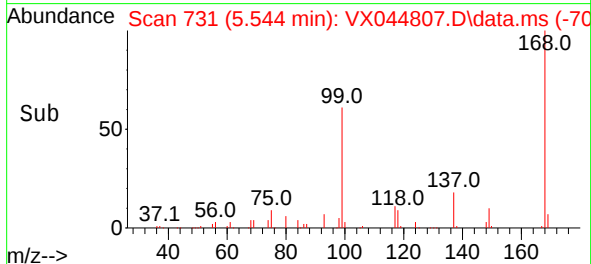
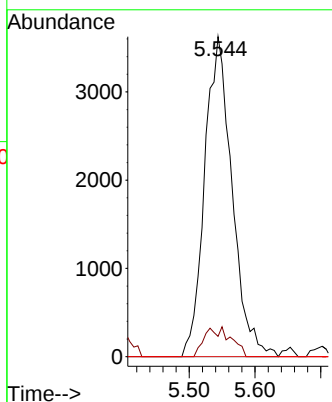


#36
1,1-Dichloropropene
Concen: 4.947 ug/l
RT: 5.544 min Scan# 754
Delta R.T. -0.140 min
Lab File: VX044807.D
Acq: 03 Feb 2025 11:55

Instrument :
MSVOA_X
ClientSampleId :

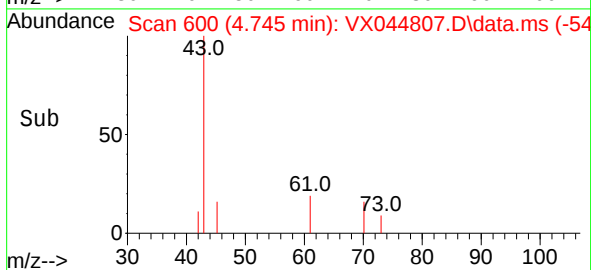
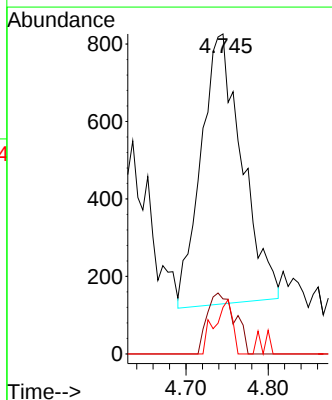
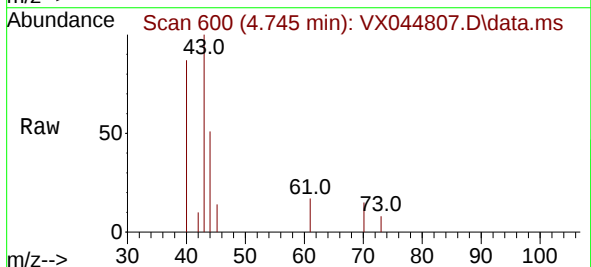


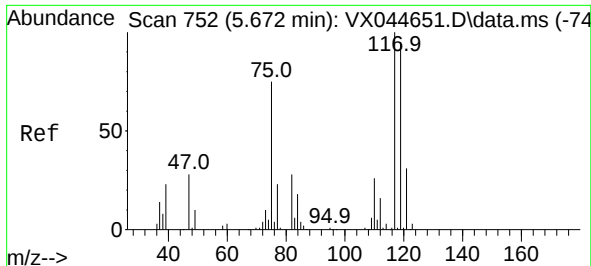
Tgt Ion: 75 Resp: 10511
Ion Ratio Lower Upper
75 100
110 4.7 17.9 53.8#
77 0.0 24.5 36.7#



#37
Ethyl Acetate
Concen: 1.067 ug/l
RT: 4.745 min Scan# 600
Delta R.T. 0.037 min
Lab File: VX044807.D
Acq: 03 Feb 2025 11:55

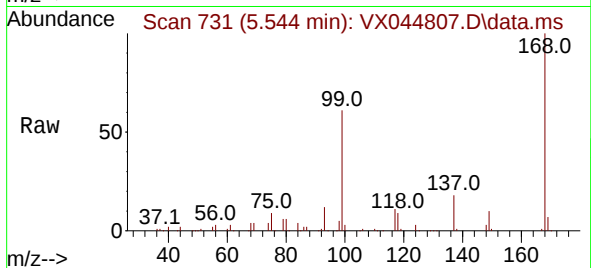
Tgt Ion: 43 Resp: 2413
Ion Ratio Lower Upper
43 100
61 15.3 10.9 16.3
70 8.7 10.1 15.1#



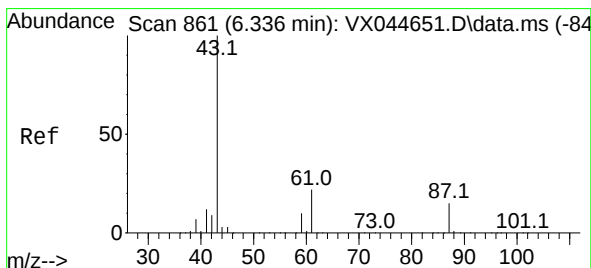
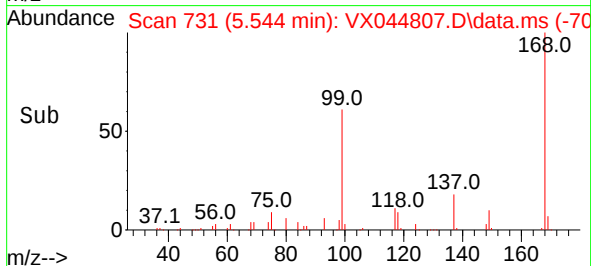
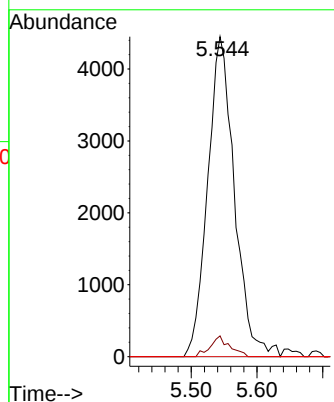


#38
Carbon Tetrachloride
Concen: 5.274 ug/l
RT: 5.544 min Scan# 752
Delta R.T. -0.128 min
Lab File: VX044807.D
Acq: 03 Feb 2025 11:55

Instrument :
MSVOA_X
ClientSampleId :

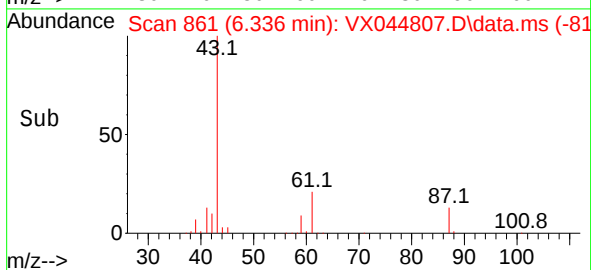
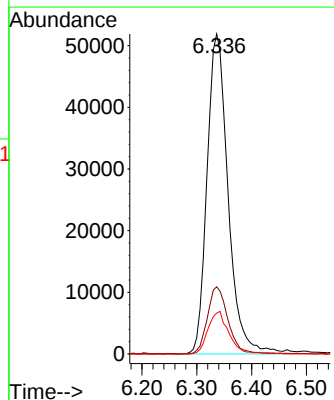
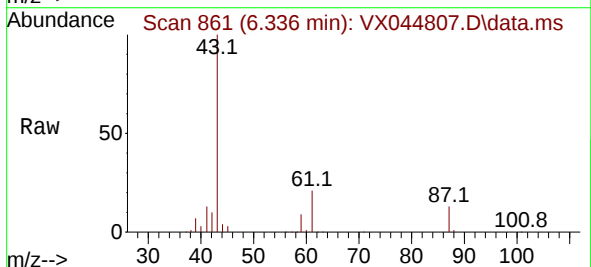


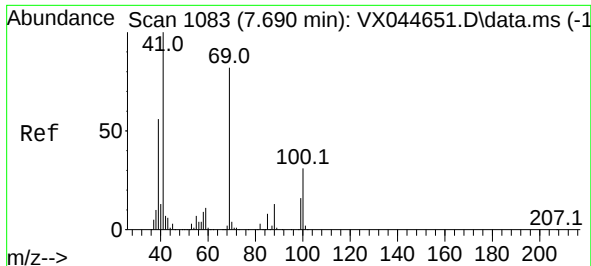
Tgt Ion:117 Resp: 12603
Ion Ratio Lower Upper
117 100
119 6.5 76.0 114.0#
121 0.0 24.6 36.8#



#43
Isopropyl Acetate
Concen: 33.238 ug/l
RT: 6.336 min Scan# 861
Delta R.T. 0.000 min
Lab File: VX044807.D
Acq: 03 Feb 2025 11:55

Tgt Ion: 43 Resp: 138341
Ion Ratio Lower Upper
43 100
61 20.7 16.6 24.8
87 13.1 11.0 16.6

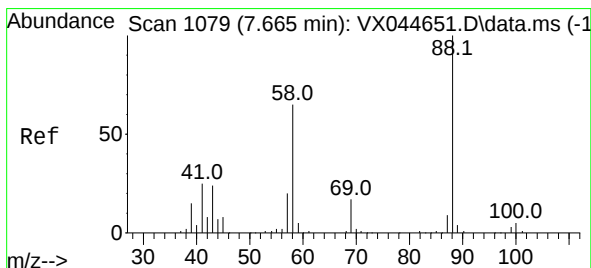
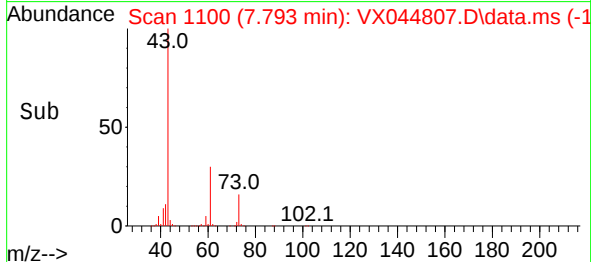
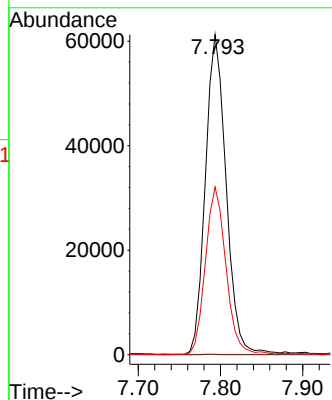
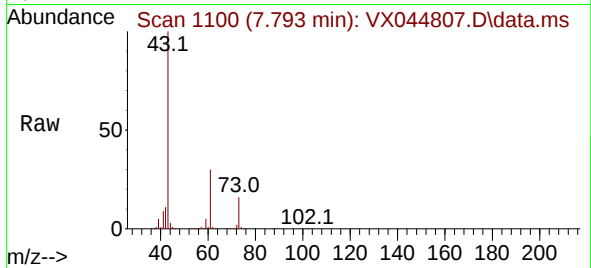




#48
Methyl methacrylate
Concen: 55.363 ug/l
RT: 7.793 min Scan# 1100
Delta R.T. 0.104 min
Lab File: VX044807.D
Acq: 03 Feb 2025 11:55

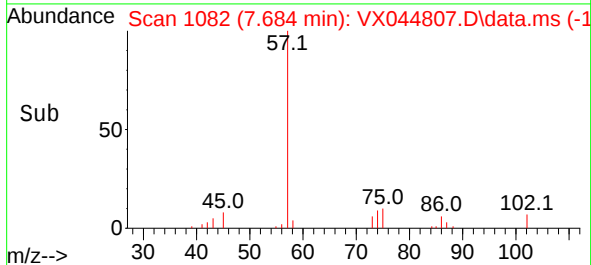
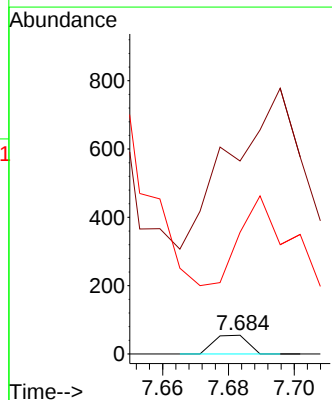
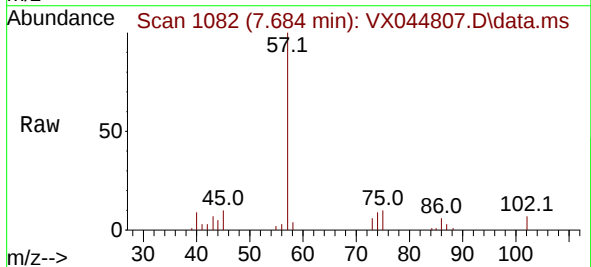
Instrument :
MSVOA_X
ClientSampleId :

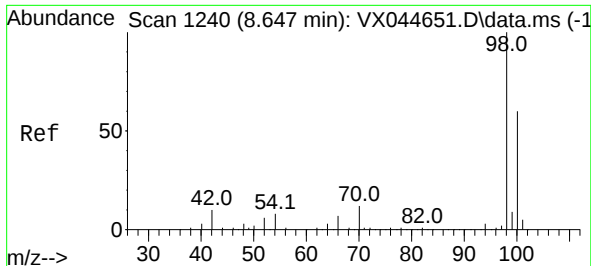
Tgt Ion: 41 Resp: 106962
Ion Ratio Lower Upper
41 100
69 0.1 66.8 100.2#
39 52.6 47.4 71.0



#49
1,4-Dioxane
Concen: 0.992 ug/l
RT: 7.684 min Scan# 1082
Delta R.T. 0.018 min
Lab File: VX044807.D
Acq: 03 Feb 2025 11:55

Tgt Ion: 88 Resp: 40
Ion Ratio Lower Upper
88 100
43 0.0 27.0 40.4#
58 2115.0 55.8 83.8#

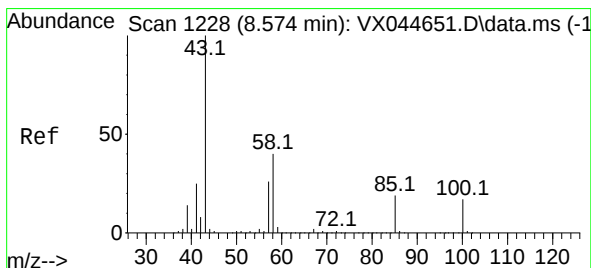
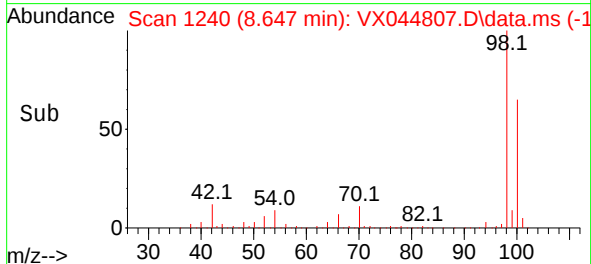
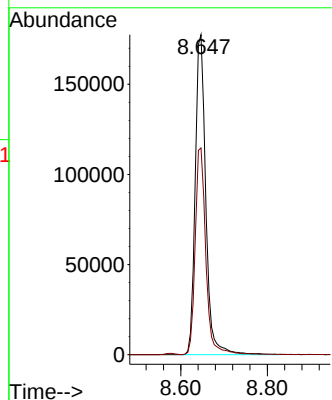
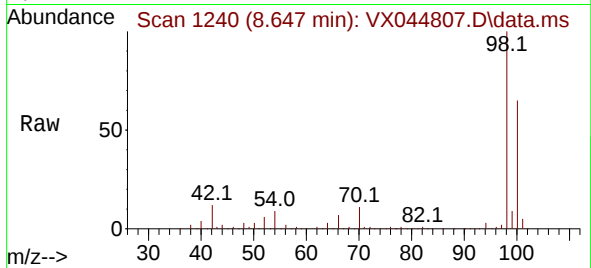




#50
Toluene-d8
Concen: 56.587 ug/l
RT: 8.647 min Scan# 1240
Delta R.T. 0.000 min
Lab File: VX044807.D
Acq: 03 Feb 2025 11:55

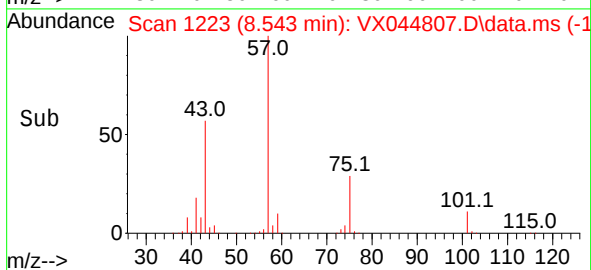
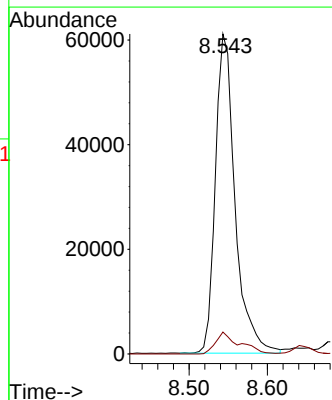
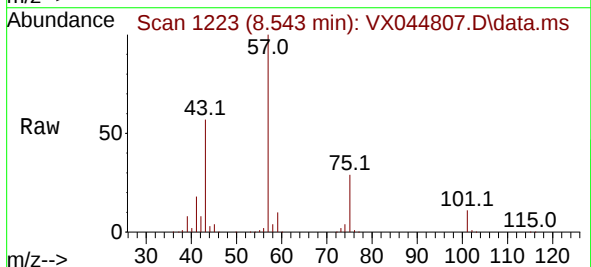
Instrument :
MSVOA_X
ClientSampleId :

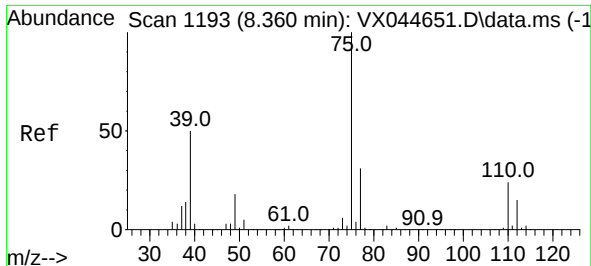
Tgt Ion: 98 Resp: 301141
Ion Ratio Lower Upper
98 100
100 64.9 53.2 79.8



#51
4-Methyl-2-Pentanone
Concen: 46.352 ug/l
RT: 8.543 min Scan# 1223
Delta R.T. -0.030 min
Lab File: VX044807.D
Acq: 03 Feb 2025 11:55

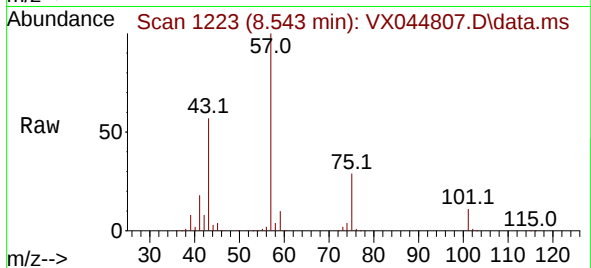
Tgt Ion: 43 Resp: 106617
Ion Ratio Lower Upper
43 100
58 8.3 31.9 47.9#



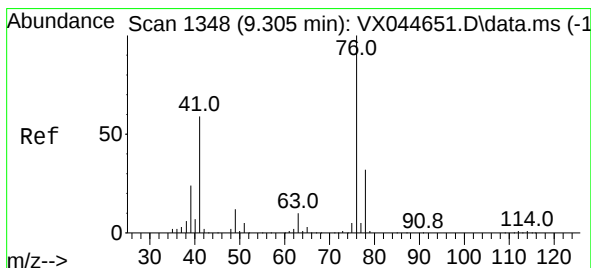
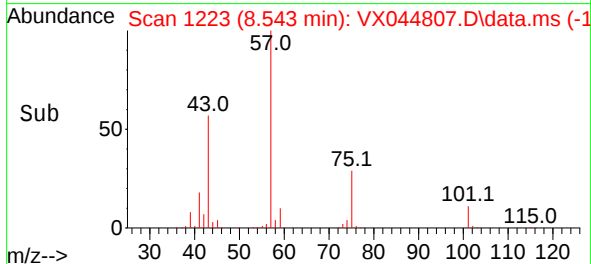
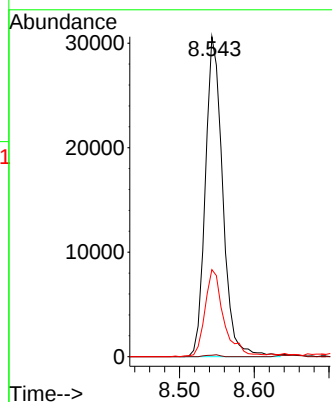


#54
 cis-1,3-Dichloropropene
 Concen: 17.058 ug/l
 RT: 8.543 min Scan# 1193
 Delta R.T. 0.183 min
 Lab File: VX044807.D
 Acq: 03 Feb 2025 11:55

Instrument :
 MSVOA_X
 ClientSampleId :

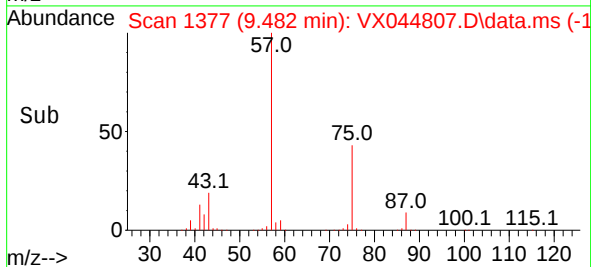
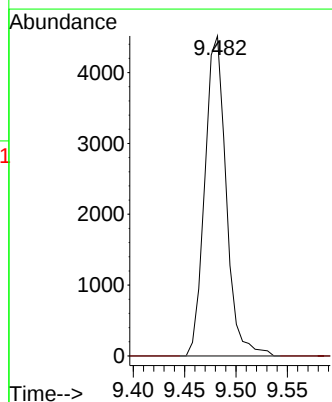
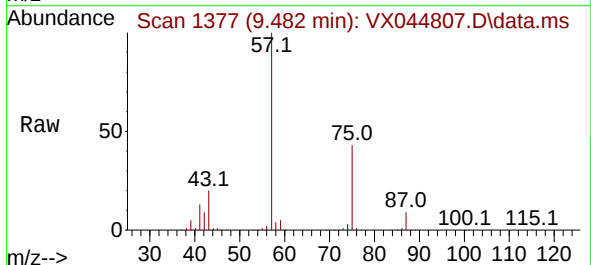


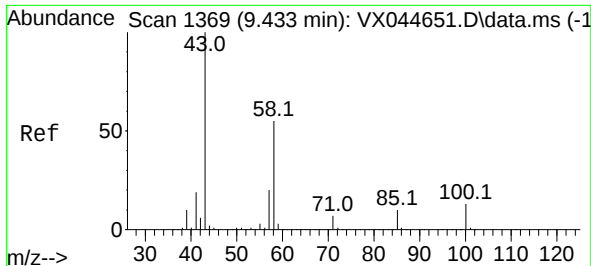
Tgt Ion: 75 Resp: 49439
 Ion Ratio Lower Upper
 75 100
 77 0.5 25.1 37.7#
 39 27.2 40.3 60.5#



#57
 1,3-Dichloropropane
 Concen: 2.354 ug/l
 RT: 9.482 min Scan# 1377
 Delta R.T. 0.177 min
 Lab File: VX044807.D
 Acq: 03 Feb 2025 11:55

Tgt Ion: 76 Resp: 6536
 Ion Ratio Lower Upper
 76 100
 78 0.0 26.0 39.0#





#59

2-Hexanone

Concen: 50.094 ug/l

RT: 9.482 min Scan# 1377

Delta R.T. 0.049 min

Lab File: VX044807.D

Acq: 03 Feb 2025 11:55

Instrument :

MSVOA_X

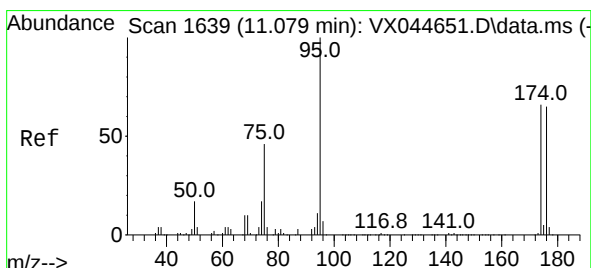
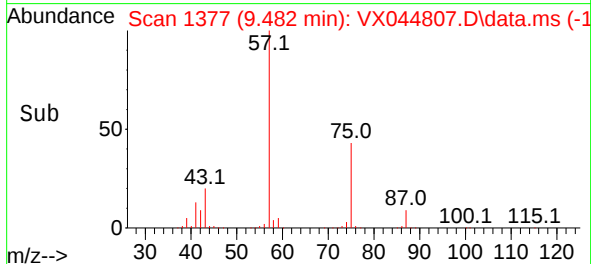
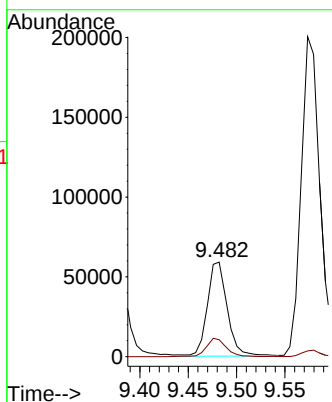
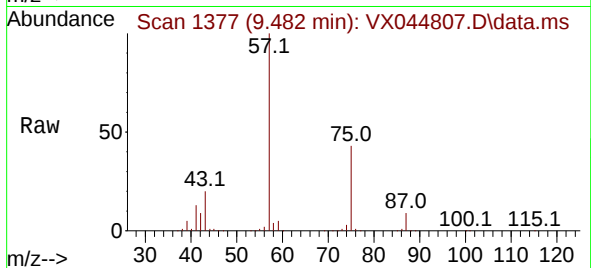
ClientSampleId :

Tgt Ion: 43 Resp: 84770

Ion Ratio Lower Upper

43 100

58 19.7 27.8 83.3#



#62

4-Bromofluorobenzene

Concen: 51.939 ug/l

RT: 11.079 min Scan# 1639

Delta R.T. 0.000 min

Lab File: VX044807.D

Acq: 03 Feb 2025 11:55

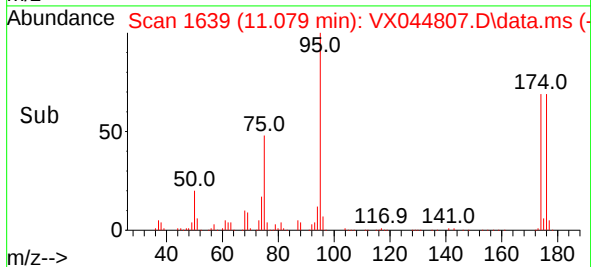
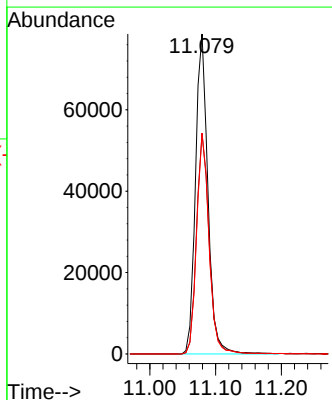
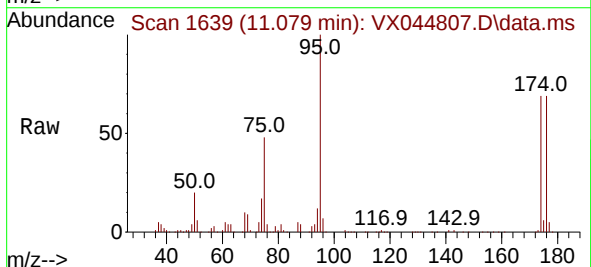
Tgt Ion: 95 Resp: 103041

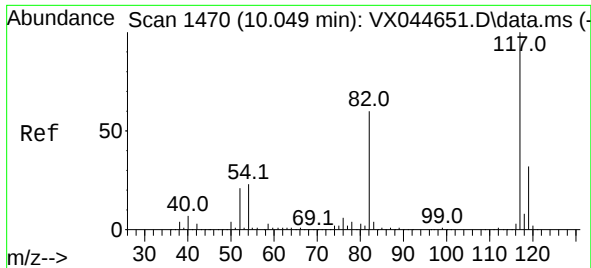
Ion Ratio Lower Upper

95 100

174 70.2 0.0 133.0

176 68.8 0.0 129.4

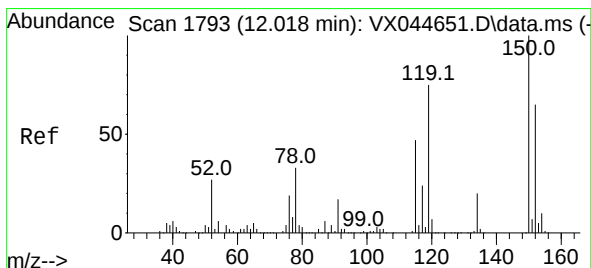
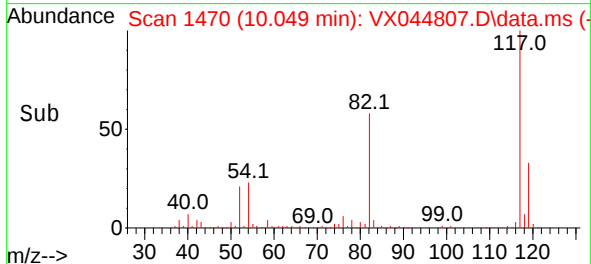
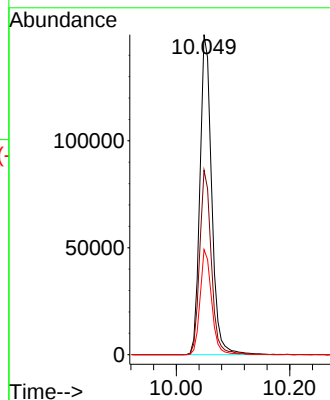
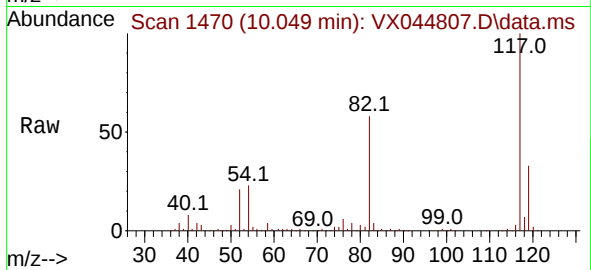




#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 10.049 min Scan# 1470
Delta R.T. 0.000 min
Lab File: VX044807.D
Acq: 03 Feb 2025 11:55

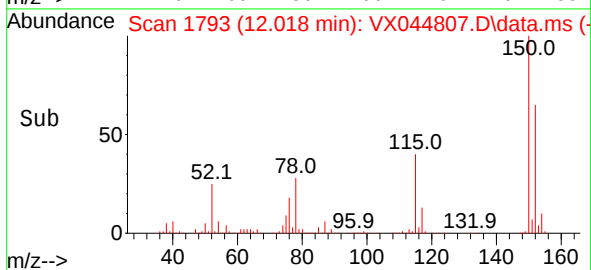
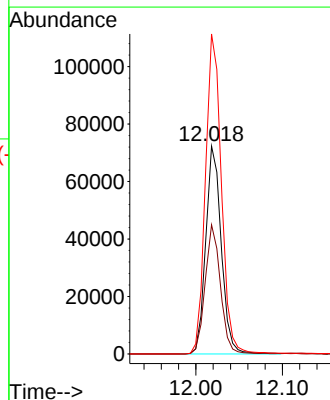
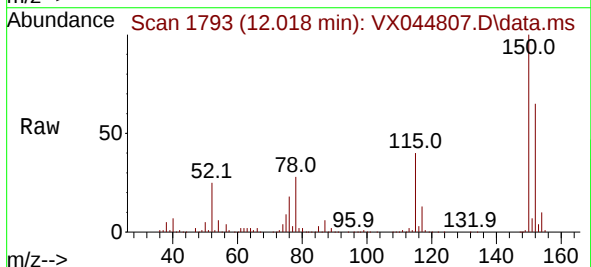
Instrument :
MSVOA_X
ClientSampleId :

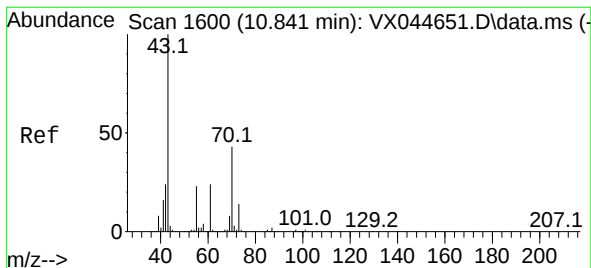
Tgt Ion:117 Resp: 214774
Ion Ratio Lower Upper
117 100
82 57.7 47.6 71.4
119 32.9 25.4 38.2



#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 12.018 min Scan# 1793
Delta R.T. 0.000 min
Lab File: VX044807.D
Acq: 03 Feb 2025 11:55

Tgt Ion:152 Resp: 90113
Ion Ratio Lower Upper
152 100
115 61.3 43.8 131.4
150 158.9 0.0 347.8





#74

N-ethyl acetate

Concen: 8.057 ug/l

RT: 10.640 min Scan# 1639

Delta R.T. -0.201 min

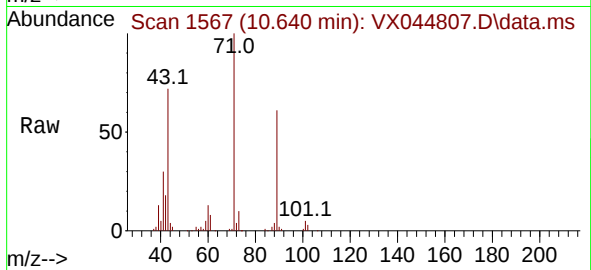
Lab File: VX044807.D

Acq: 03 Feb 2025 11:55

Instrument :

MSVOA_X

ClientSampleId :



Tgt Ion: 43 Resp: 29236

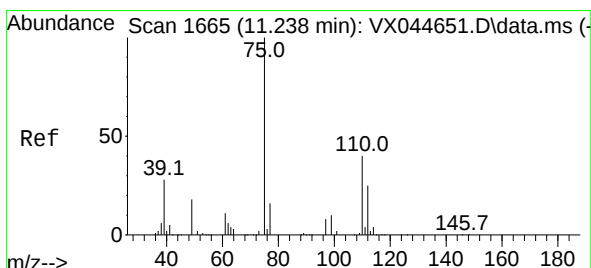
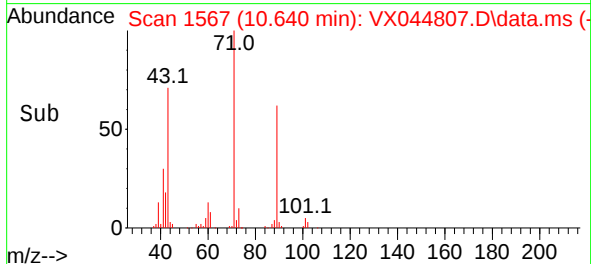
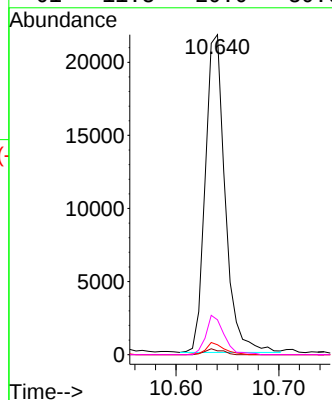
Ion Ratio Lower Upper

43 100

70 1.6 35.2 52.8#

55 3.4 19.0 28.4#

61 11.3 20.0 30.0#



#76

1,2,3-Trichloropropane

Concen: 23.614 ug/l

RT: 11.079 min Scan# 1639

Delta R.T. -0.158 min

Lab File: VX044807.D

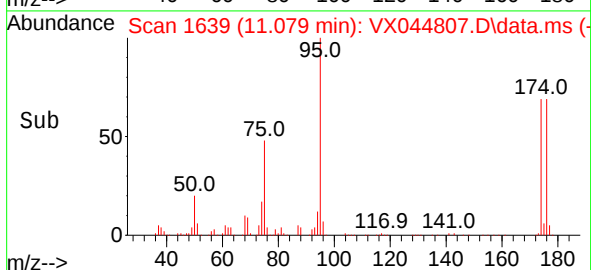
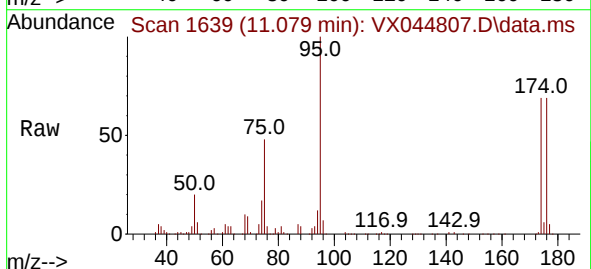
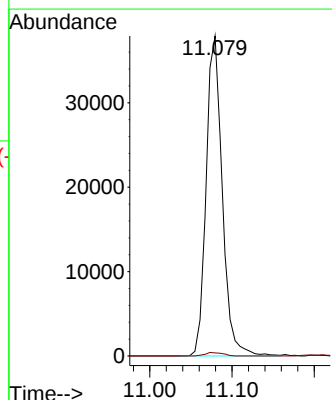
Acq: 03 Feb 2025 11:55

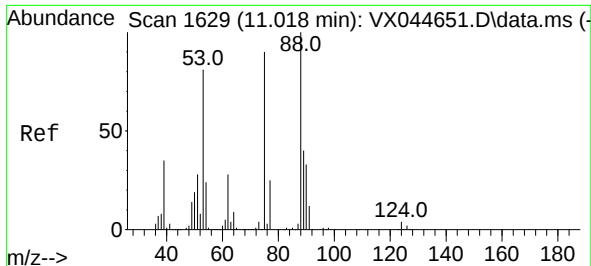
Tgt Ion: 75 Resp: 51642

Ion Ratio Lower Upper

75 100

77 1.2 23.4 70.2#

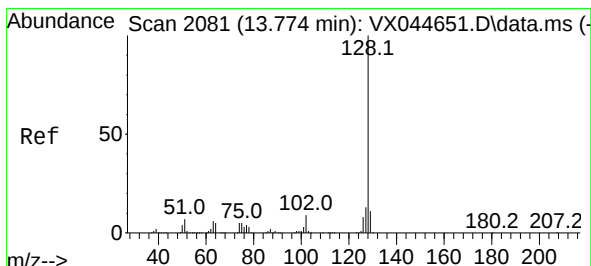
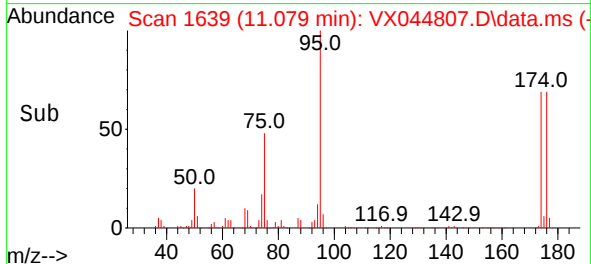
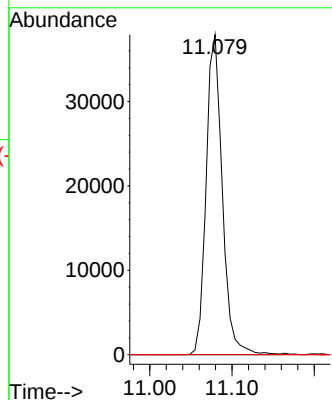
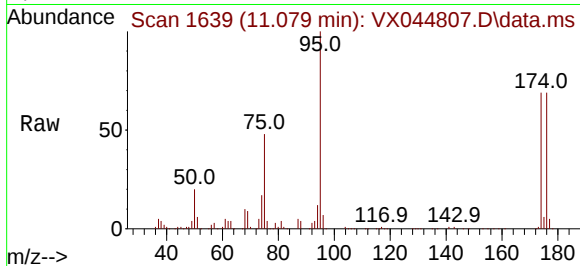




#81
trans-1,4-Dichloro-2-butene
Concen: 54.002 ug/l
RT: 11.079 min Scan# 1
Delta R.T. 0.061 min
Lab File: VX044807.D
Acq: 03 Feb 2025 11:55

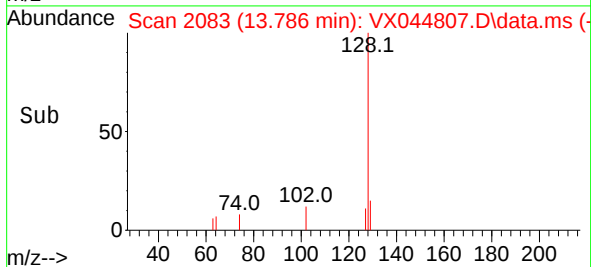
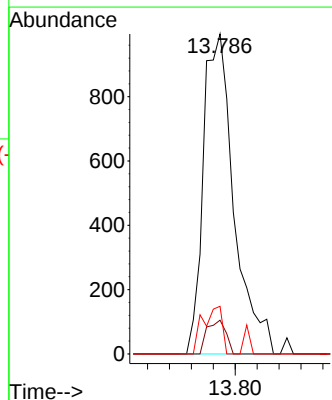
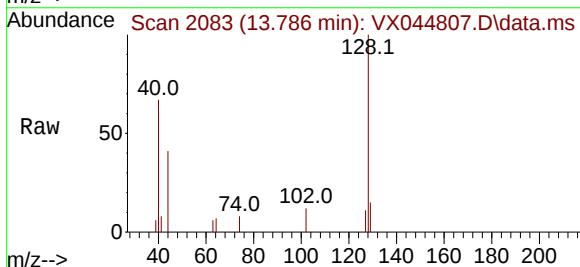
Instrument :
MSVOA_X
ClientSampleId :

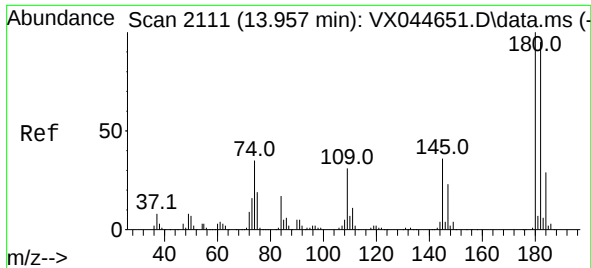
Tgt Ion: 75 Resp: 51642
Ion Ratio Lower Upper
75 100
53 0.0 74.3 111.5#
89 0.0 37.4 56.0#



#95
Naphthalene
Concen: 0.273 ug/l
RT: 13.786 min Scan# 2083
Delta R.T. 0.012 min
Lab File: VX044807.D
Acq: 03 Feb 2025 11:55

Tgt Ion:128 Resp: 1929
Ion Ratio Lower Upper
128 100
127 6.5 10.3 15.5#
129 9.4 8.7 13.1





#96

1,2,3-Trichlorobenzene

Concen: 0.216 ug/l

RT: 13.963 min Scan# 21

Delta R.T. 0.006 min

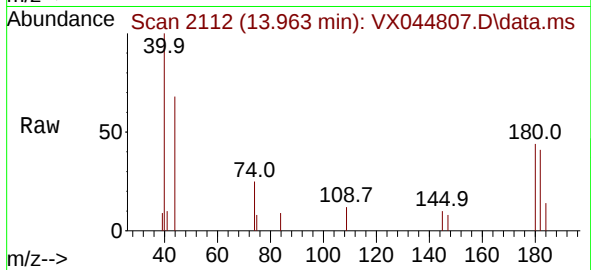
Lab File: VX044807.D

Acq: 03 Feb 2025 11:55

Instrument :

MSVOA_X

ClientSampleId :



Tgt Ion:180 Resp: 410

Ion Ratio Lower Upper

180 100

182 77.1 47.2 141.6

145 26.1 17.5 52.6

