

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX072324\
 Data File : VX042462.D
 Acq On : 23 Jul 2024 11:06
 Operator : JC/MD
 Sample : P3321-02
 Misc : 5.0mL/MSVOA_X/WATER
 ALS Vial : 7 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :

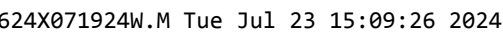
Quant Time: Jul 23 15:09:22 2024
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\624X071924W.M
 Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS
 QLast Update : Fri Jul 19 11:30:14 2024
 Response via : Initial Calibration

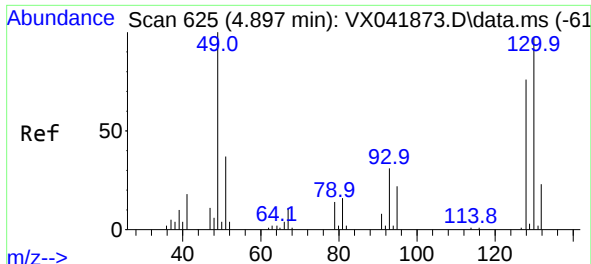
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)

Internal Standards						
1) Bromochloromethane	4.897	128	28198	30.000	ug/l	0.00
28) 1,4-Difluorobenzene	6.763	114	156148	30.000	ug/l	0.00
57) Chlorobenzene-d5	10.055	117	144166	30.000	ug/l	0.00
System Monitoring Compounds						
27) 1,2-Dichloroethane-d4	5.958	65	61103	30.251	ug/l	0.00
Spiked Amount 30.000	Range 91 - 110		Recovery = 100.833%			
60) 4-Bromofluorobenzene	11.079	95	64472	28.743	ug/l	0.00
Spiked Amount 30.000	Range 63 - 112		Recovery = 95.800%			
63) Toluene-d8	8.646	98	187372	29.919	ug/l	0.00
Spiked Amount 30.000	Range 91 - 112		Recovery = 99.733%			
Target Compounds						
					Qvalue	
3) Chloromethane	1.294	50	414	0.234	ug/l #	70
5) Bromomethane	1.593	94	200	0.227	ug/l	81
6) Chloroethane	1.709	64	1190	1.573	ug/l #	45
12) Methyl Acetate	2.708	43	8538	3.160	ug/l	96
13) Acrolein	2.239	56	171	0.504	ug/l #	62
15) Acetone	2.398	58	123259	408.353	ug/l	94
16) Carbon Disulfide	2.495	76	4037	1.242	ug/l	97
18) Methylene Chloride	2.782	84	2458	1.309	ug/l #	92
23) tert-Butyl Alcohol	3.001	59	483	1.249	ug/l #	100
25) Chloroform	5.086	83	1997	0.617	ug/l	90
30) 2-Butanone	4.574	43	47952	35.273	ug/l	98
35) Methacrylonitrile	5.049	41	1711	1.275	ug/l #	43
48) t-1,3-Dichloropropene	8.713	75	3767	1.698	ug/l #	1
49) cis-1,3-Dichloropropene	8.713	75	3767	1.511	ug/l #	1
53) Dibromochloromethane	9.274	129	1743	0.912	ug/l #	11
58) 4-Methyl-2-Pentanone	8.579	43	10129	3.987	ug/l	98
61) Tetrachloroethene	9.274	164	2116	1.210	ug/l	89
62) Toluene	8.713	91	610049	84.640	ug/l	100
67) m/p-Xylenes	10.311	106	658	0.210	ug/l	77
68) o-Xylene	10.311	106	658	0.211	ug/l	84
77) t-1,4-Dichloro-2-butene	11.079	75	30452	38.136	ug/l #	7
79) tert-butylbenzene	12.012	119	3817	0.537	ug/l	71
80) 1,2,4-Trimethylbenzene	11.762	105	2718	0.406	ug/l	54
82) p-Isopropyltoluene	12.012	119	3817	0.525	ug/l	96
91) Naphthalene	13.780	128	1925	0.231	ug/l #	95

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

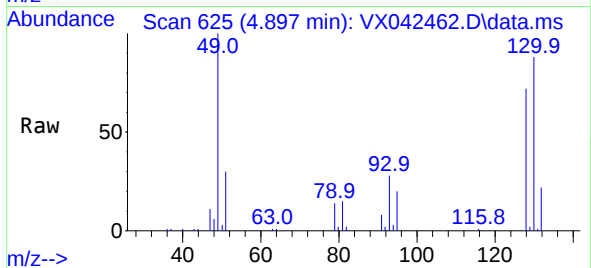
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Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS
QLast Update : Fri Jul 19 11:30:14 2024
Response via : Initial Calibration



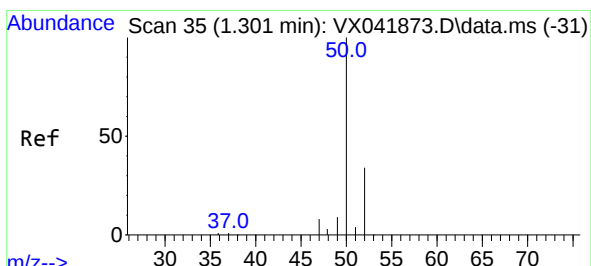
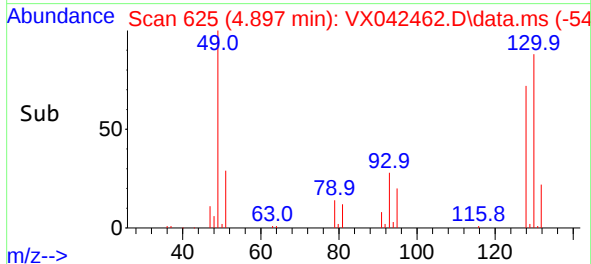
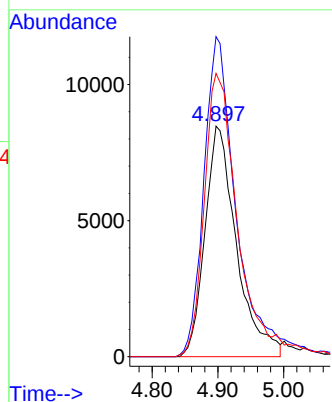


#1
Bromochloromethane
Concen: 30.000 ug/l
RT: 4.897 min Scan# 61
Delta R.T. 0.000 min
Lab File: VX042462.D
Acq: 23 Jul 2024 11:06

Instrument :
MSVOA_X
ClientSampleId :

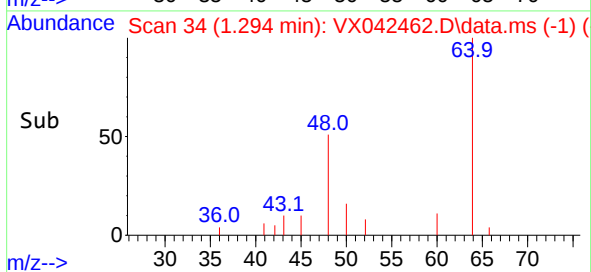
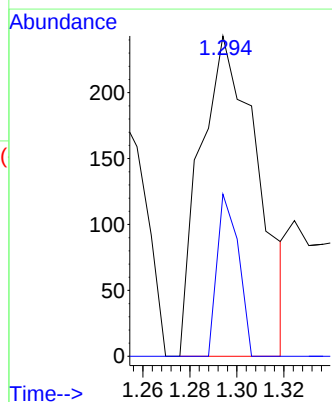
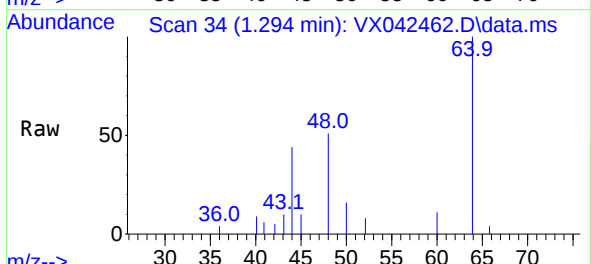


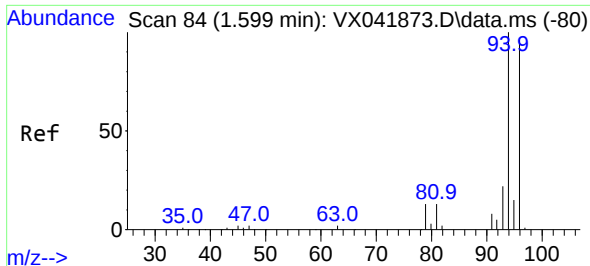
Tgt Ion:128 Resp: 28198
Ion Ratio Lower Upper
128 100
49 143.8 0.0 338.5
130 126.0 0.0 324.5



#3
Chloromethane
Concen: 0.234 ug/l
RT: 1.294 min Scan# 34
Delta R.T. -0.006 min
Lab File: VX042462.D
Acq: 23 Jul 2024 11:06

Tgt Ion: 50 Resp: 414
Ion Ratio Lower Upper
50 100
52 50.6 26.9 40.3#

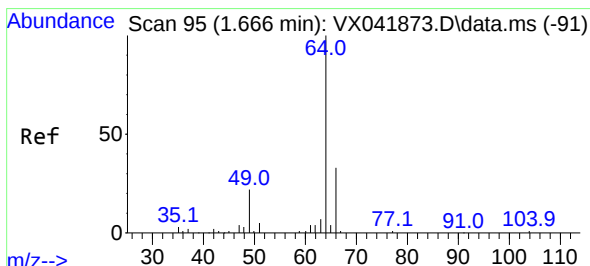
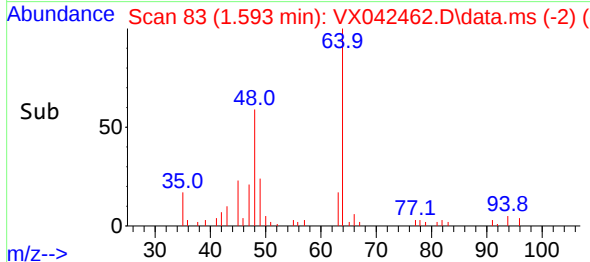
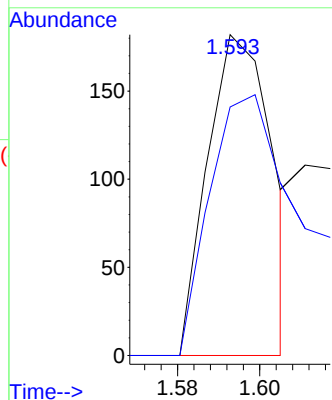
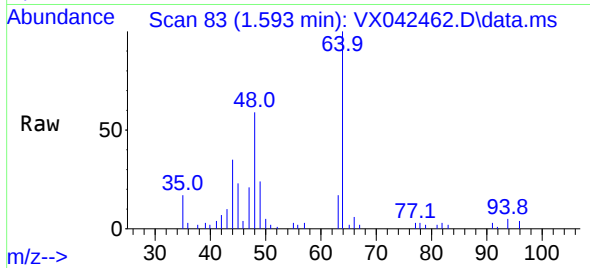




#5
Bromomethane
Concen: 0.227 ug/l
RT: 1.593 min Scan# 81
Delta R.T. -0.006 min
Lab File: VX042462.D
Acq: 23 Jul 2024 11:06

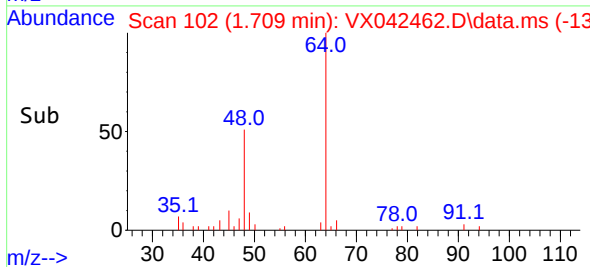
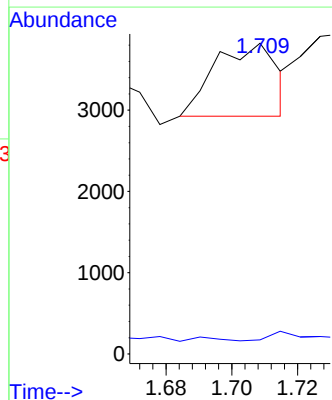
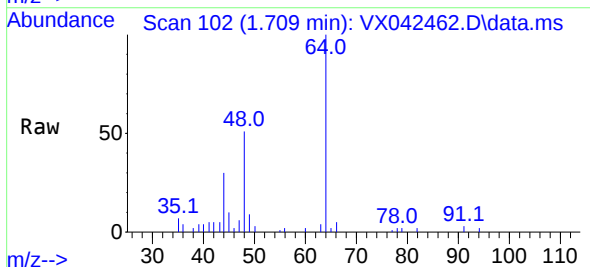
Instrument :
MSVOA_X
ClientSampleId :

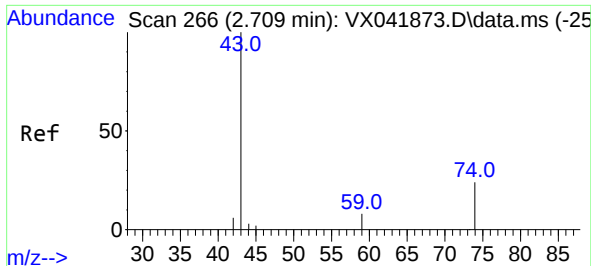
Tgt Ion: 94 Resp: 200
Ion Ratio Lower Upper
94 100
96 77.5 76.6 115.0



#6
Chloroethane
Concen: 1.573 ug/l
RT: 1.709 min Scan# 102
Delta R.T. 0.042 min
Lab File: VX042462.D
Acq: 23 Jul 2024 11:06

Tgt Ion: 64 Resp: 1190
Ion Ratio Lower Upper
64 100
66 2.0 26.4 39.6#

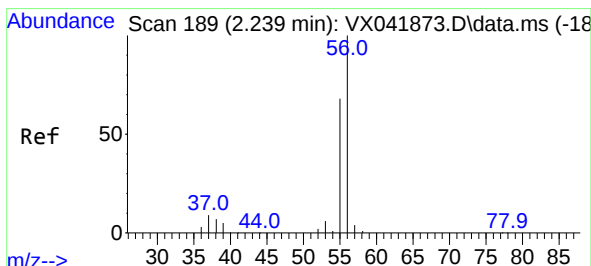
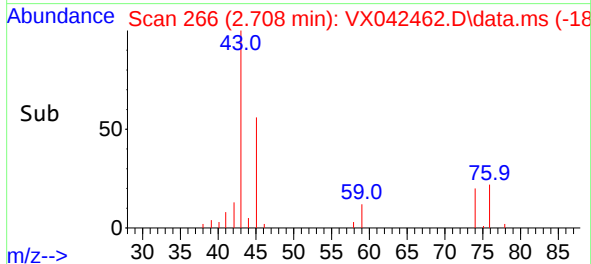
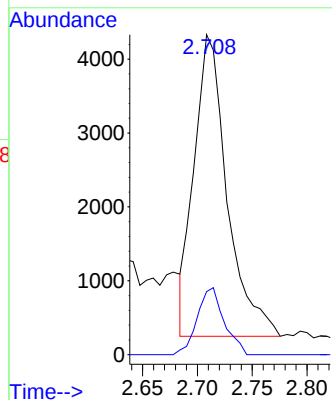
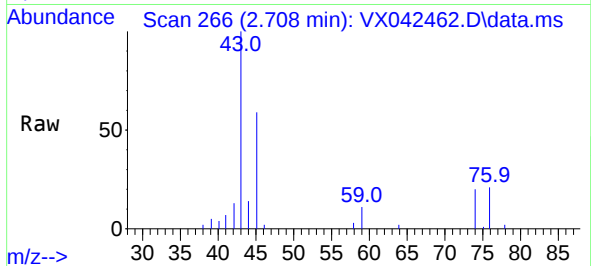




#12
Methyl Acetate
Concen: 3.160 ug/l
RT: 2.708 min Scan# 21
Delta R.T. -0.000 min
Lab File: VX042462.D
Acq: 23 Jul 2024 11:06

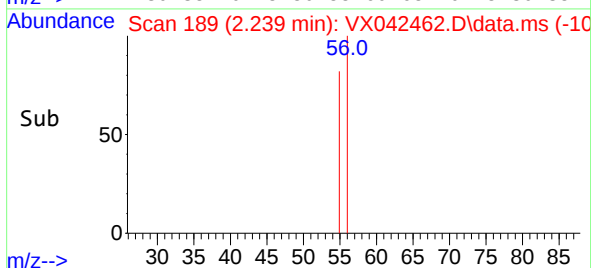
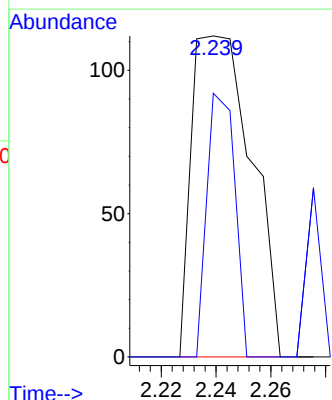
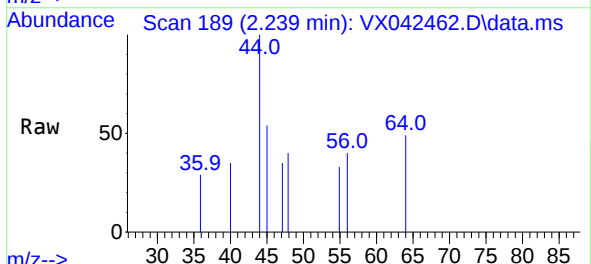
Instrument :
MSVOA_X
ClientSampleId :

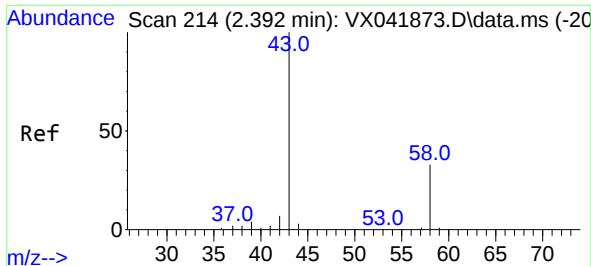
Tgt Ion: 43 Resp: 8538
Ion Ratio Lower Upper
43 100
74 22.5 19.4 29.2



#13
Acrolein
Concen: 0.504 ug/l
RT: 2.239 min Scan# 189
Delta R.T. -0.000 min
Lab File: VX042462.D
Acq: 23 Jul 2024 11:06

Tgt Ion: 56 Resp: 171
Ion Ratio Lower Upper
56 100
55 38.0 55.4 83.0#

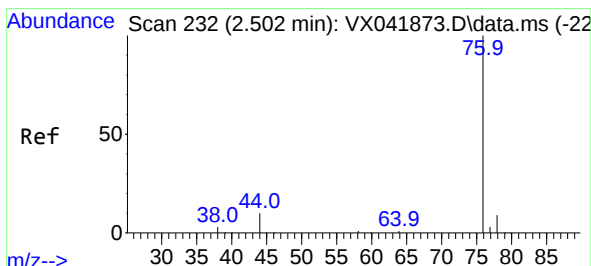
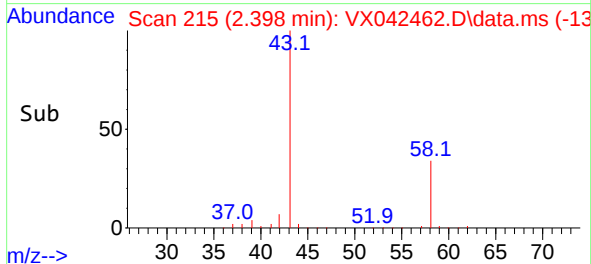
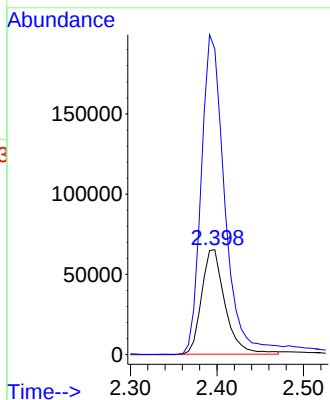
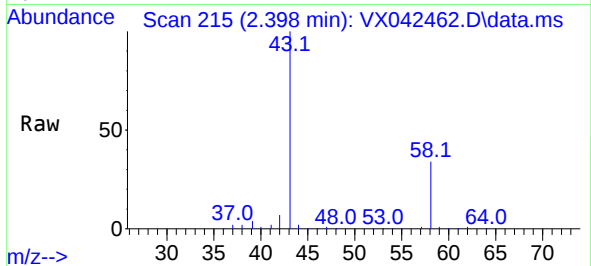




#15
Acetone
Concen: 408.353 ug/l
RT: 2.398 min Scan# 214
Delta R.T. 0.006 min
Lab File: VX042462.D
Acq: 23 Jul 2024 11:06

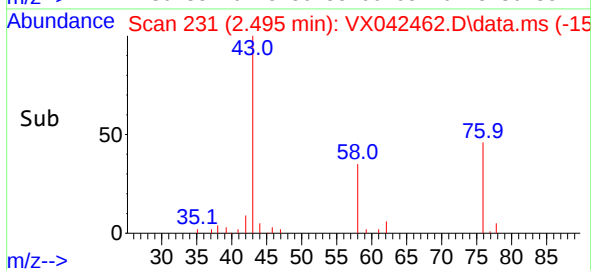
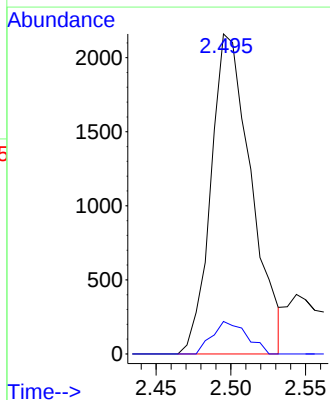
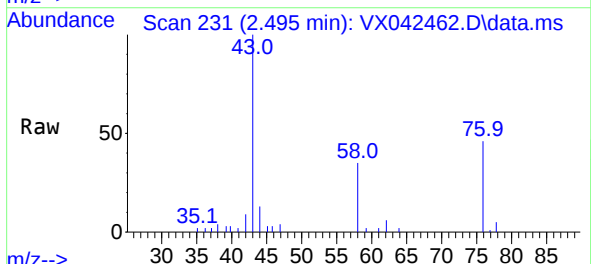
Instrument :
MSVOA_X
ClientSampleId :

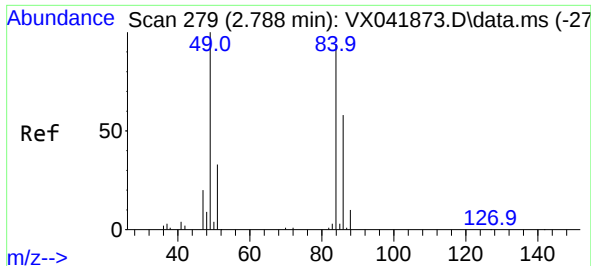
Tgt Ion: 58 Resp: 123259
Ion Ratio Lower Upper
58 100
43 292.1 243.4 365.2



#16
Carbon Disulfide
Concen: 1.242 ug/l
RT: 2.495 min Scan# 231
Delta R.T. -0.006 min
Lab File: VX042462.D
Acq: 23 Jul 2024 11:06

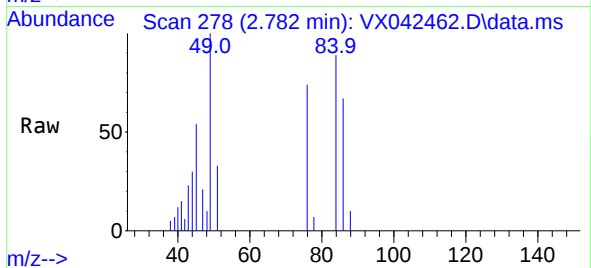
Tgt Ion: 76 Resp: 4037
Ion Ratio Lower Upper
76 100
78 10.1 7.3 10.9



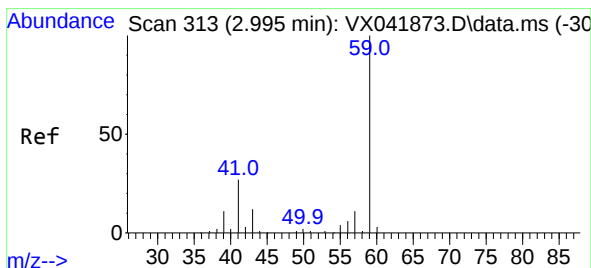
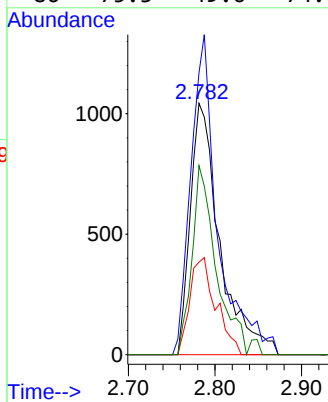
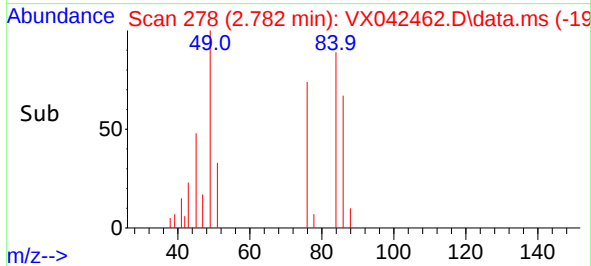


#18
Methylene Chloride
Concen: 1.309 ug/l
RT: 2.782 min Scan# 21
Delta R.T. -0.006 min
Lab File: VX042462.D
Acq: 23 Jul 2024 11:06

Instrument :
MSVOA_X
ClientSampleId :

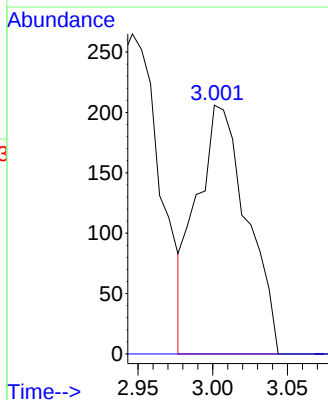
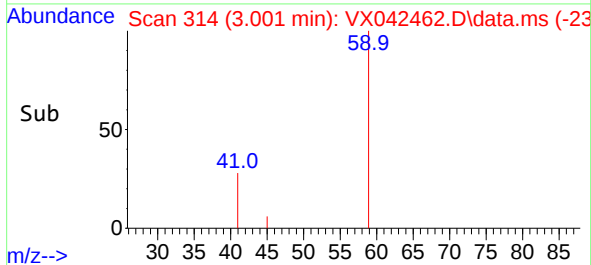
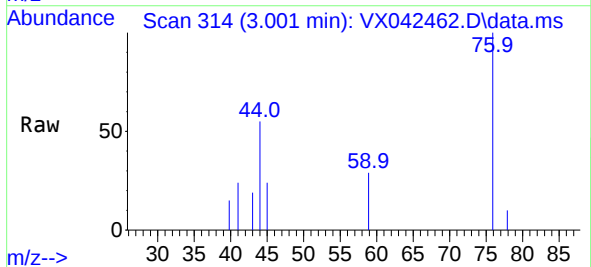


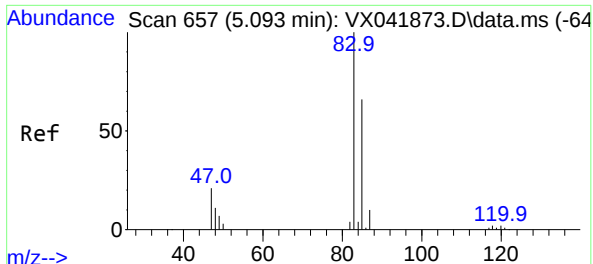
Tgt Ion: 84 Resp: 2458
Ion Ratio Lower Upper
84 100
49 112.1 85.3 127.9
51 36.8 28.5 42.7
86 75.3 49.6 74.4#



#23
tert-Butyl Alcohol
Concen: 1.249 ug/l
RT: 3.001 min Scan# 314
Delta R.T. 0.006 min
Lab File: VX042462.D
Acq: 23 Jul 2024 11:06

Tgt Ion: 59 Resp: 483
Ion Ratio Lower Upper
59 100
52 0.0 0.0 0.0

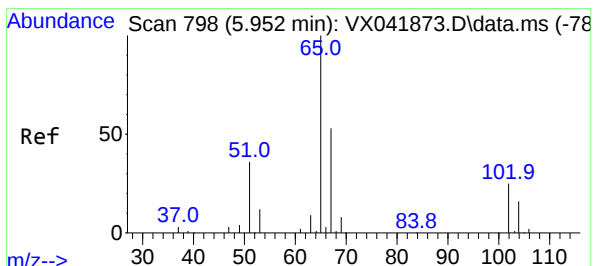
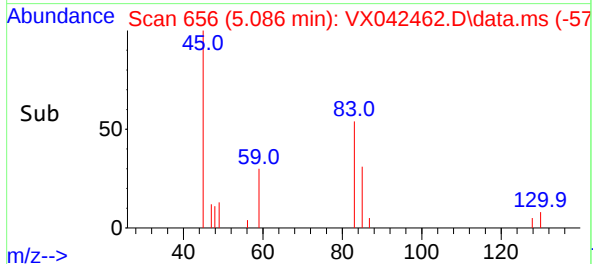
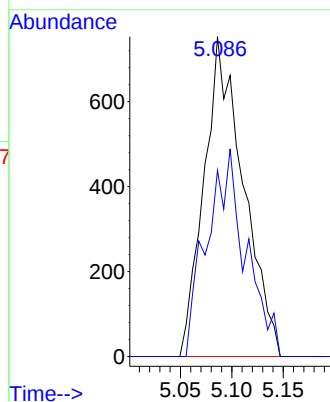
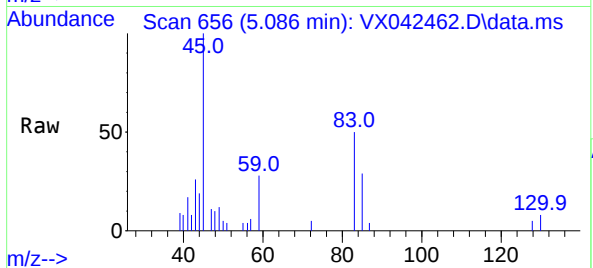




#25
Chloroform
Concen: 0.617 ug/l
RT: 5.086 min Scan# 61
Delta R.T. -0.006 min
Lab File: VX042462.D
Acq: 23 Jul 2024 11:06

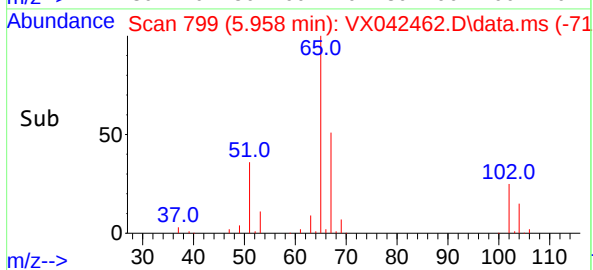
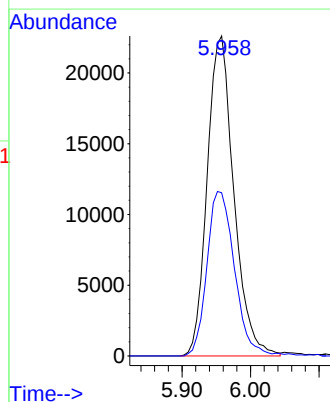
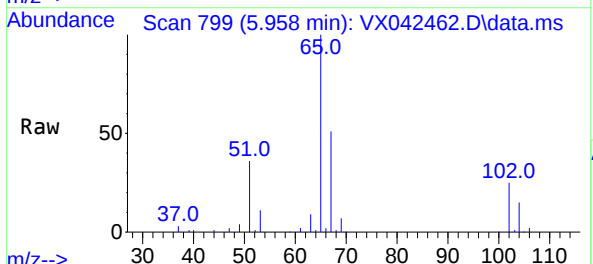
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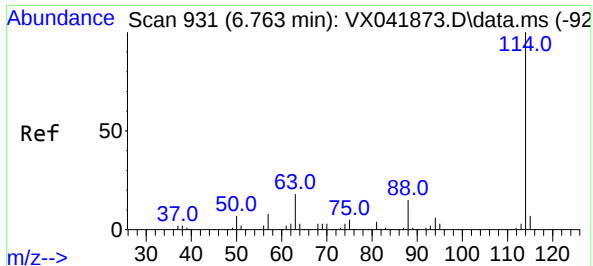
Tgt Ion: 83 Resp: 1997
Ion Ratio Lower Upper
83 100
85 58.2 52.7 79.1



#27
1,2-Dichloroethane-d4
Concen: 30.251 ug/l
RT: 5.958 min Scan# 799
Delta R.T. 0.006 min
Lab File: VX042462.D
Acq: 23 Jul 2024 11:06

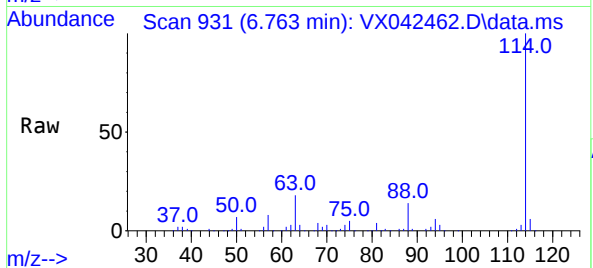
Tgt Ion: 65 Resp: 61103
Ion Ratio Lower Upper
65 100
67 52.9 43.4 65.0



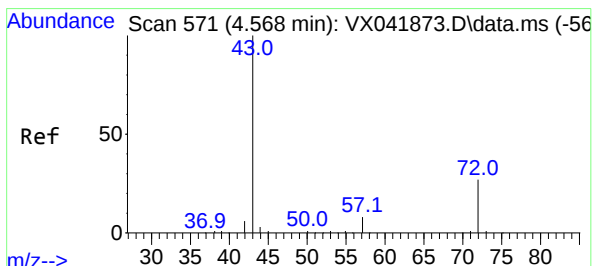
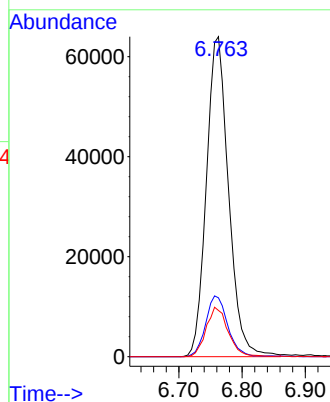


#28
1,4-Difluorobenzene
Concen: 30.000 ug/l
RT: 6.763 min Scan# 91
Delta R.T. -0.000 min
Lab File: VX042462.D
Acq: 23 Jul 2024 11:06

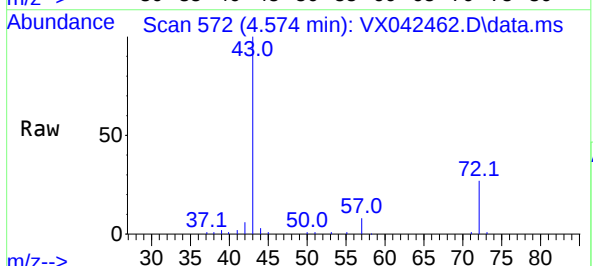
Instrument :
MSVOA_X
ClientSampleId :



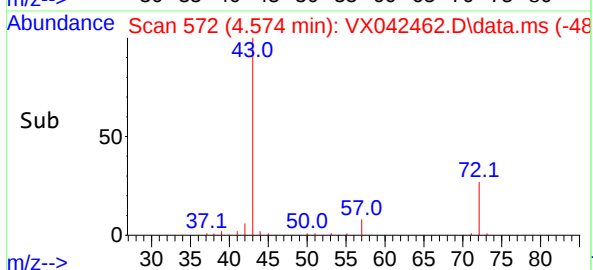
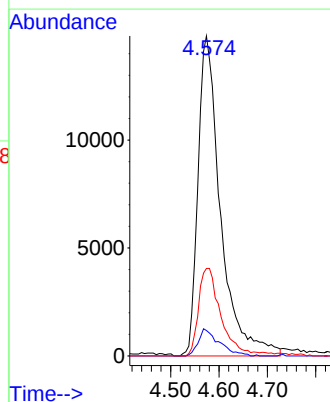
Tgt Ion:114 Resp: 156148
Ion Ratio Lower Upper
114 100
63 18.7 14.6 21.8
88 15.4 11.8 17.8

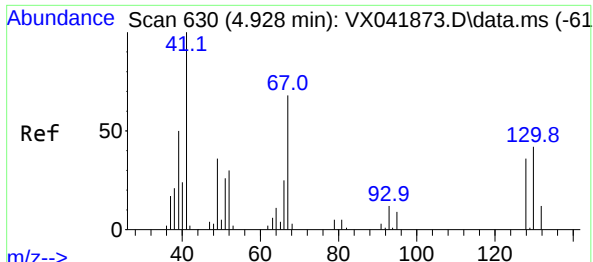


#30
2-Butanone
Concen: 35.273 ug/l
RT: 4.574 min Scan# 572
Delta R.T. 0.006 min
Lab File: VX042462.D
Acq: 23 Jul 2024 11:06



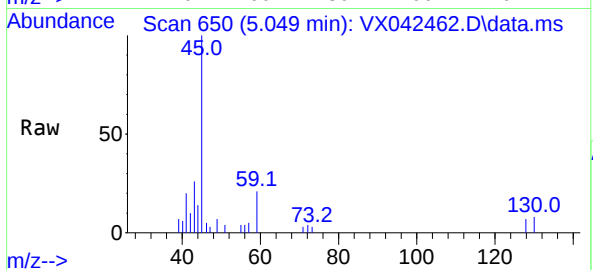
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Ion Ratio Lower Upper
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57 7.9 6.5 9.7
72 26.6 22.0 33.0



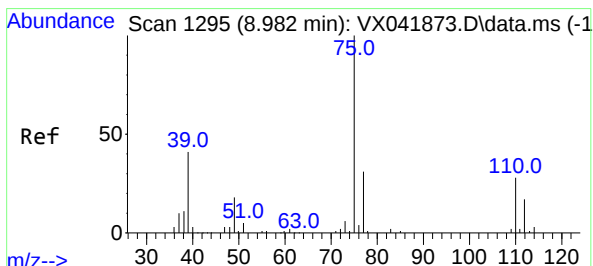
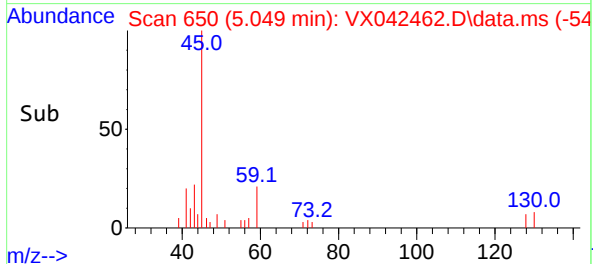
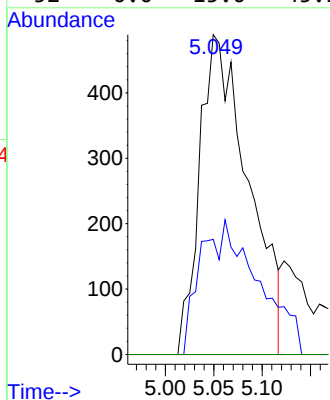


#35
Methacrylonitrile
Concen: 1.275 ug/l
RT: 5.049 min Scan# 61
Delta R.T. 0.122 min
Lab File: VX042462.D
Acq: 23 Jul 2024 11:06

Instrument :
MSVOA_X
ClientSampleId :

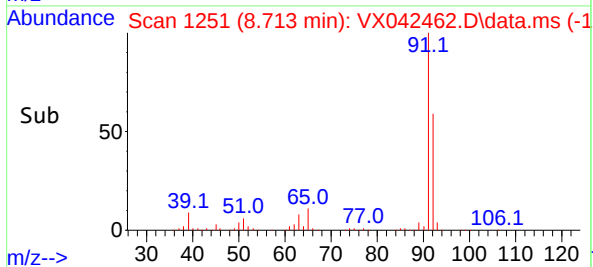
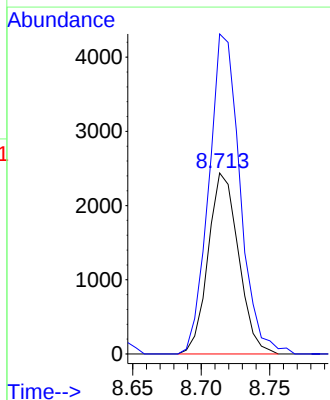
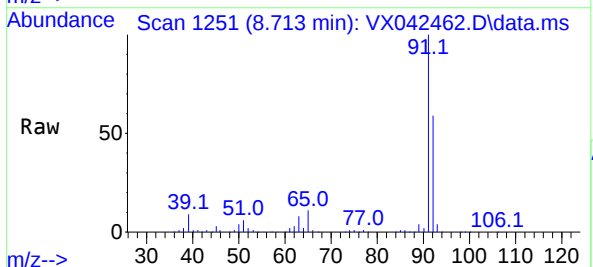


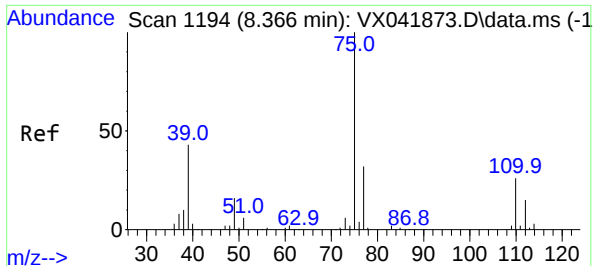
Tgt Ion: 41 Resp: 1711
Ion Ratio Lower Upper
41 100
39 36.0 25.2 75.6
67 0.0 34.2 102.5#
52 0.0 15.0 45.1#



#48
t-1,3-Dichloropropene
Concen: 1.698 ug/l
RT: 8.713 min Scan# 1251
Delta R.T. -0.269 min
Lab File: VX042462.D
Acq: 23 Jul 2024 11:06

Tgt Ion: 75 Resp: 3767
Ion Ratio Lower Upper
75 100
77 176.8 25.1 37.7#





#49

cis-1,3-Dichloropropene

Concen: 1.511 ug/l

RT: 8.713 min Scan# 11

Delta R.T. 0.347 min

Lab File: VX042462.D

Acq: 23 Jul 2024 11:06

Instrument :

MSVOA_X

ClientSampleId :

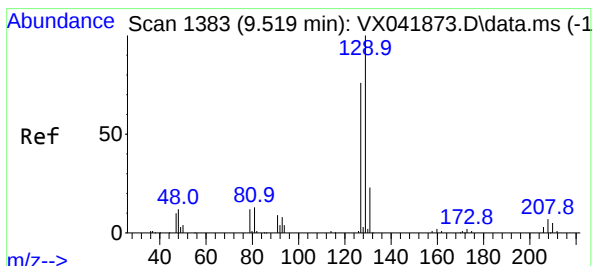
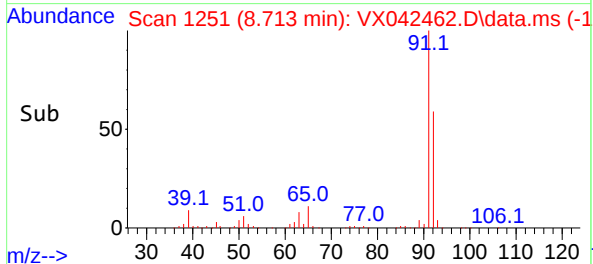
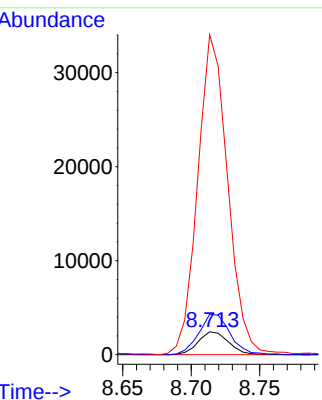
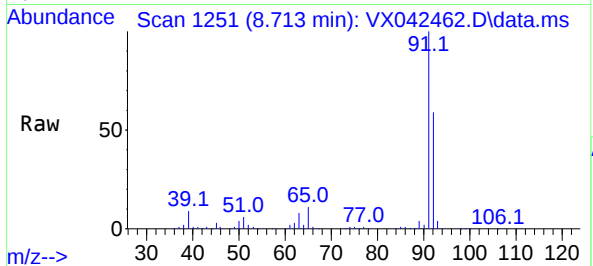
Tgt Ion: 75 Resp: 3767

Ion Ratio Lower Upper

75 100

77 176.8 25.8 38.8#

39 1388.7 34.8 52.2#



#53

Dibromochloromethane

Concen: 0.912 ug/l

RT: 9.274 min Scan# 1343

Delta R.T. -0.244 min

Lab File: VX042462.D

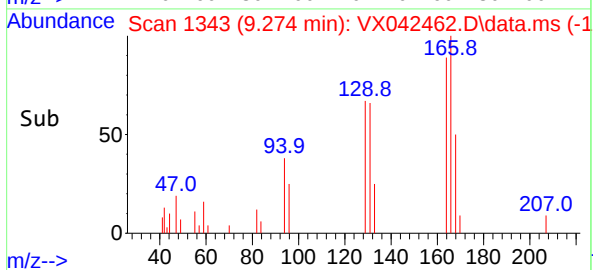
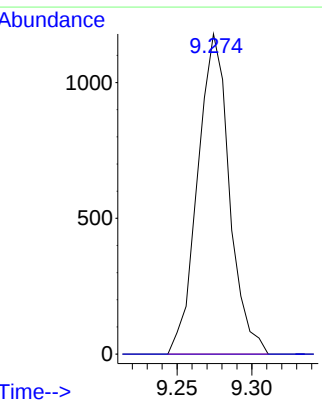
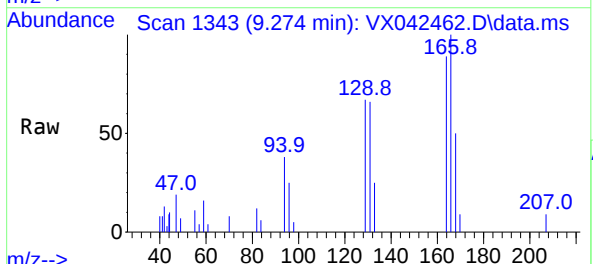
Acq: 23 Jul 2024 11:06

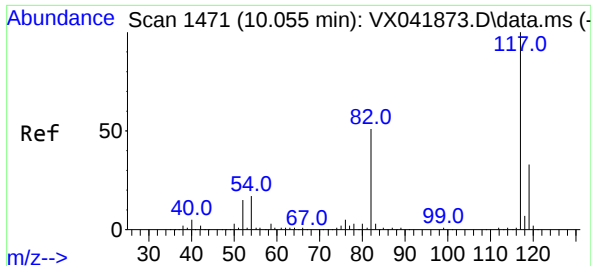
Tgt Ion:129 Resp: 1743

Ion Ratio Lower Upper

129 100

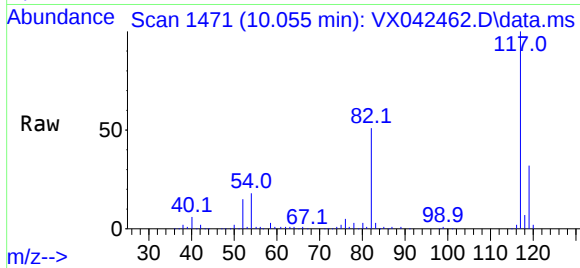
127 0.0 38.8 116.4#



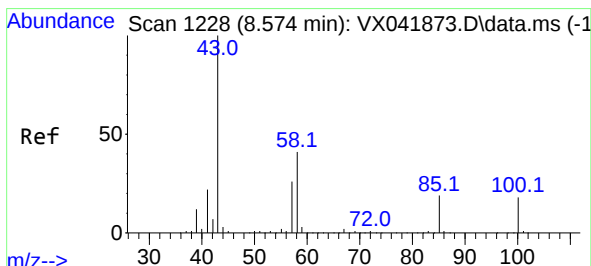
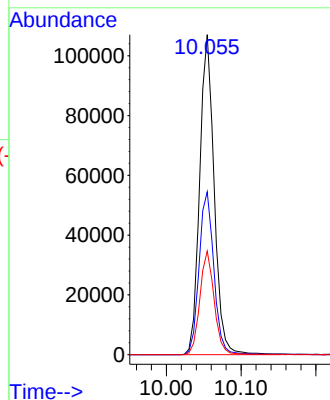
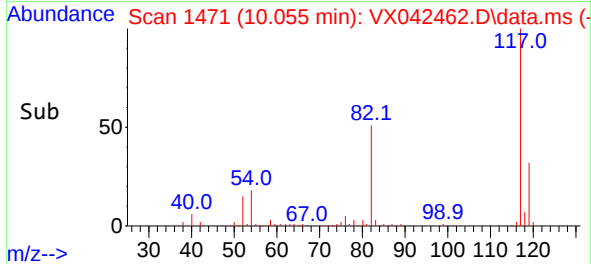


#57
Chlorobenzene-d5
Concen: 30.000 ug/l
RT: 10.055 min Scan# 1471
Delta R.T. -0.000 min
Lab File: VX042462.D
Acq: 23 Jul 2024 11:06

Instrument :
MSVOA_X
ClientSampleId :

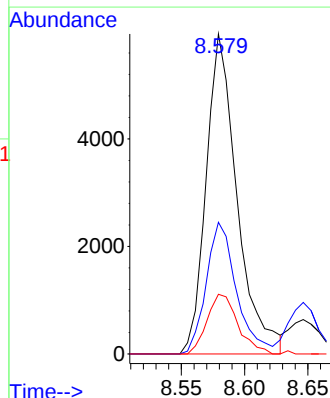
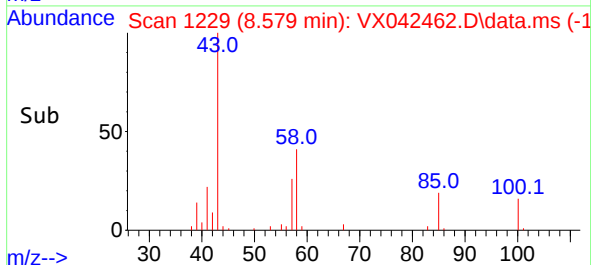
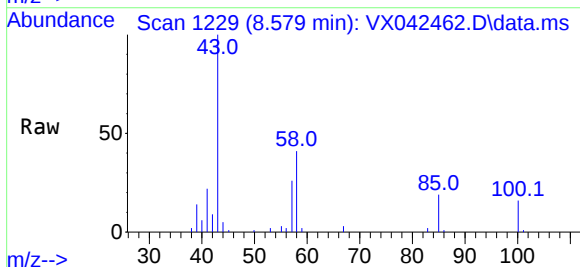


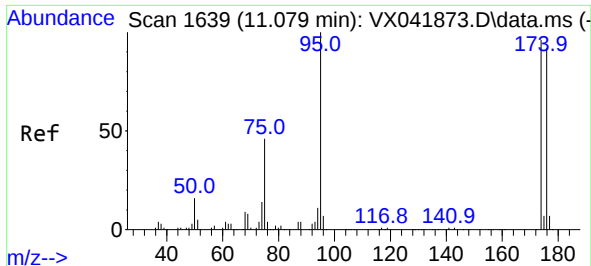
Tgt Ion:117 Resp: 144166
Ion Ratio Lower Upper
117 100
82 52.0 41.1 61.7
119 31.9 26.1 39.1



#58
4-Methyl-2-Pentanone
Concen: 3.987 ug/l
RT: 8.579 min Scan# 1229
Delta R.T. 0.006 min
Lab File: VX042462.D
Acq: 23 Jul 2024 11:06

Tgt Ion: 43 Resp: 10129
Ion Ratio Lower Upper
43 100
58 40.2 33.2 49.8
85 18.6 15.5 23.3



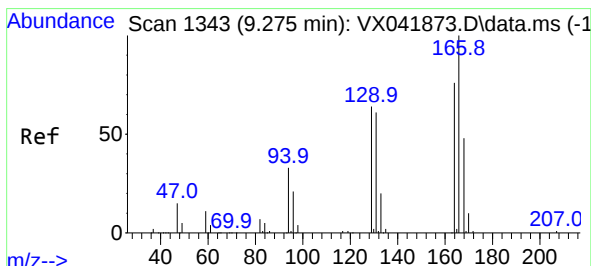
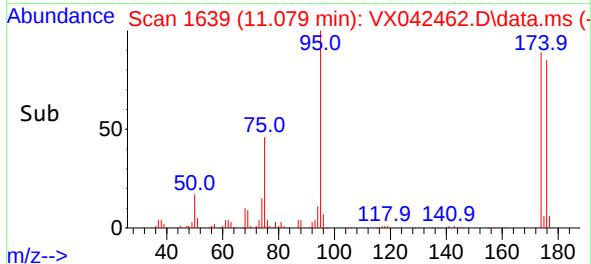
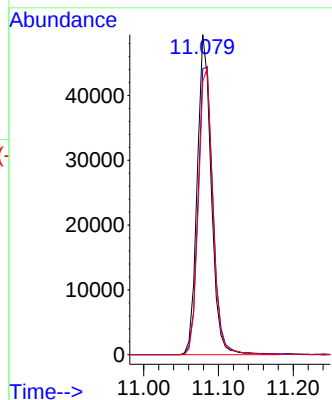
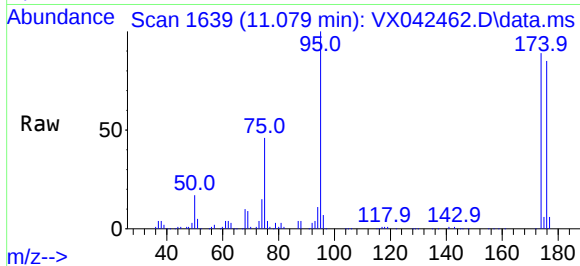


#60
4-Bromofluorobenzene
Concen: 28.743 ug/l
RT: 11.079 min Scan# 1639
Delta R.T. -0.000 min
Lab File: VX042462.D
Acq: 23 Jul 2024 11:06

Instrument :
MSVOA_X
ClientSampleId :

Tgt Ion: 95 Resp: 64472

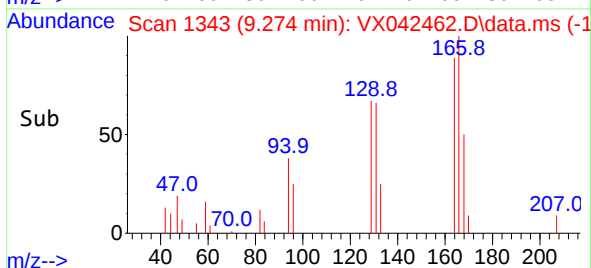
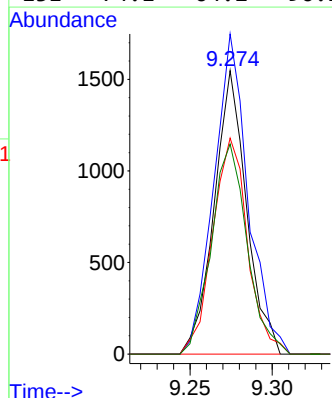
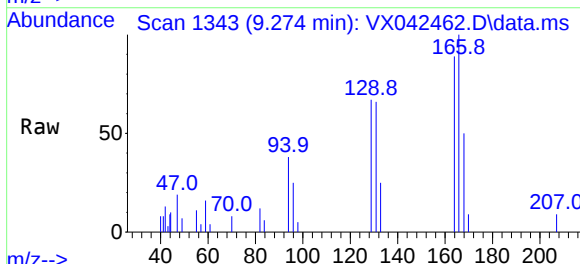
Ion	Ratio	Lower	Upper
95	100		
174	95.3	78.9	118.3
176	92.5	77.1	115.7

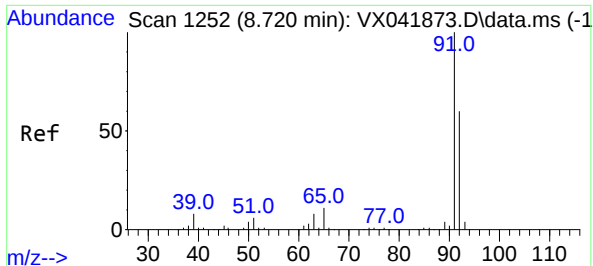


#61
Tetrachloroethene
Concen: 1.210 ug/l
RT: 9.274 min Scan# 1343
Delta R.T. -0.000 min
Lab File: VX042462.D
Acq: 23 Jul 2024 11:06

Tgt Ion: 164 Resp: 2116

Ion	Ratio	Lower	Upper
164	100		
166	112.9	105.0	157.6
129	76.2	67.1	100.7
131	74.1	64.2	96.2





#62

Toluene

Concen: 84.640 ug/l

RT: 8.713 min Scan# 11

Delta R.T. -0.007 min

Lab File: VX042462.D

Acq: 23 Jul 2024 11:06

Instrument :

MSVOA_X

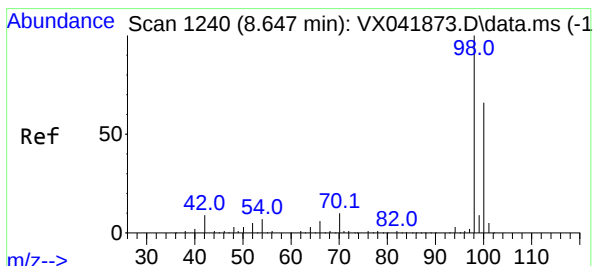
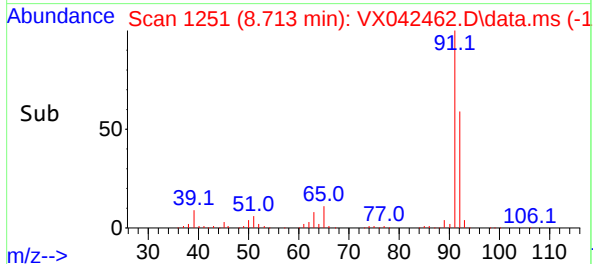
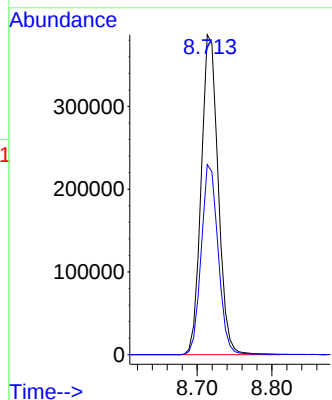
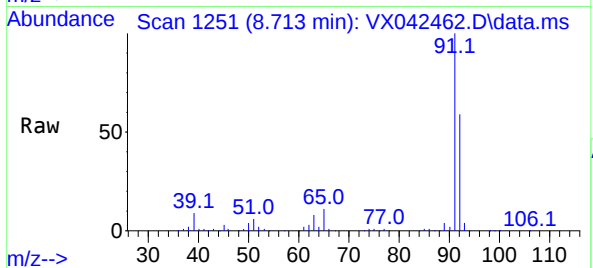
ClientSampleId :

Tgt Ion: 91 Resp: 610049

Ion Ratio Lower Upper

91 100

92 59.1 47.4 71.2



#63

Toluene-d8

Concen: 29.919 ug/l

RT: 8.646 min Scan# 1240

Delta R.T. -0.000 min

Lab File: VX042462.D

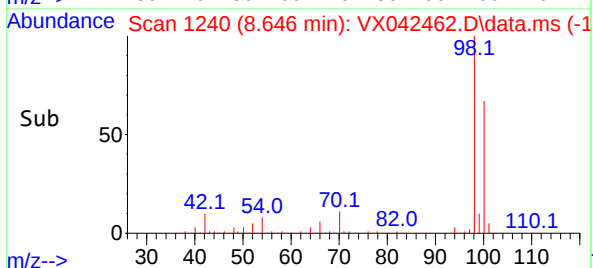
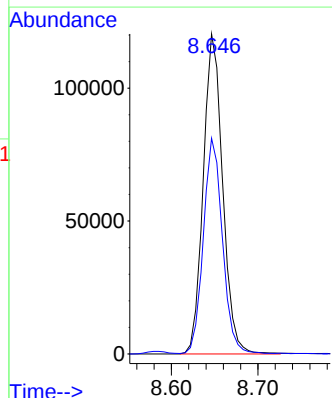
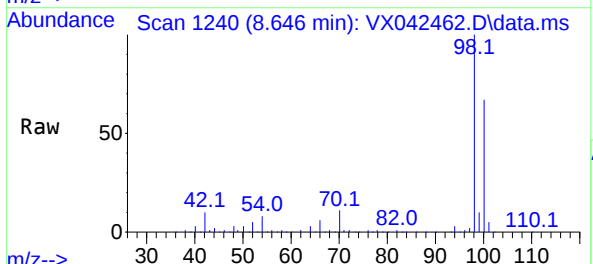
Acq: 23 Jul 2024 11:06

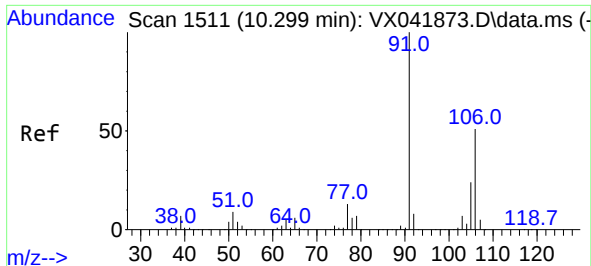
Tgt Ion: 98 Resp: 187372

Ion Ratio Lower Upper

98 100

100 66.5 52.7 79.1

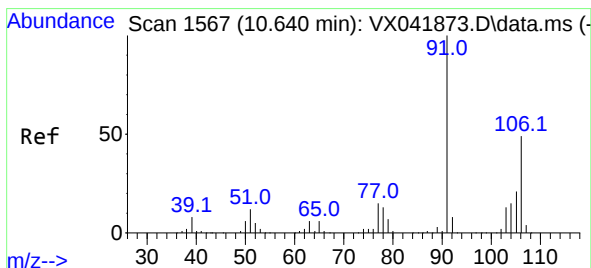
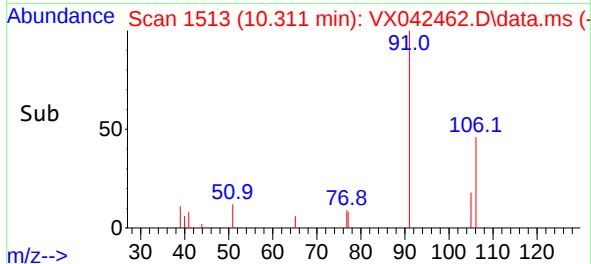
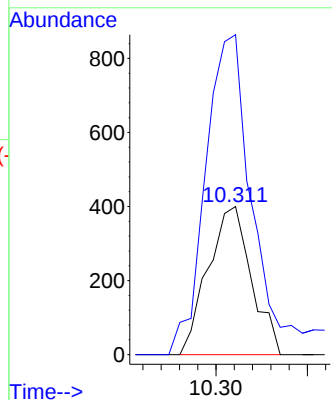
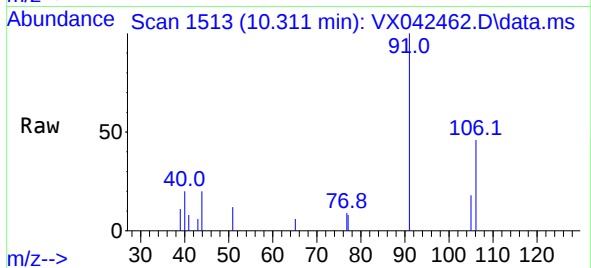




#67
m/p-Xylenes
Concen: 0.210 ug/l
RT: 10.311 min Scan# 1513
Delta R.T. 0.012 min
Lab File: VX042462.D
Acq: 23 Jul 2024 11:06

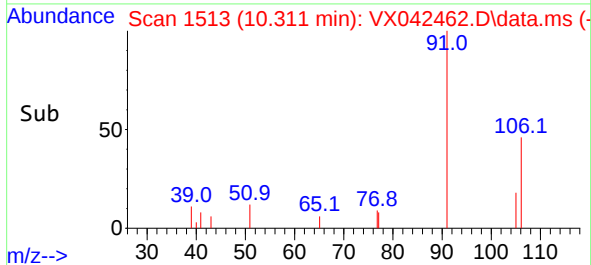
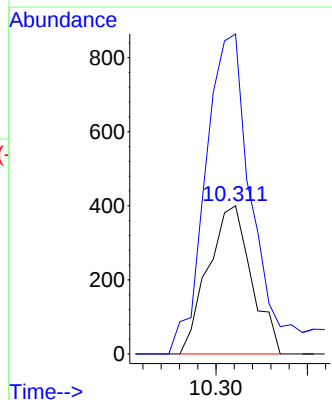
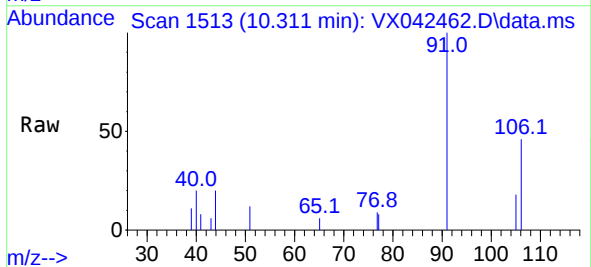
Instrument :
MSVOA_X
ClientSampleId :

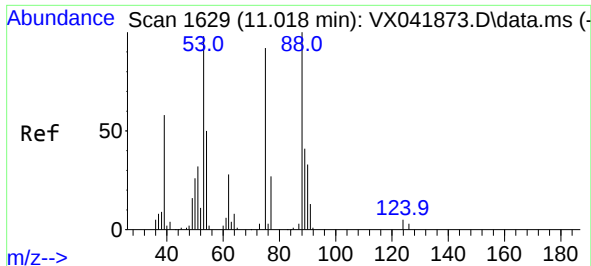
Tgt Ion:106 Resp: 658
Ion Ratio Lower Upper
106 100
91 231.2 157.0 235.6



#68
o-Xylene
Concen: 0.211 ug/l
RT: 10.311 min Scan# 1513
Delta R.T. -0.330 min
Lab File: VX042462.D
Acq: 23 Jul 2024 11:06

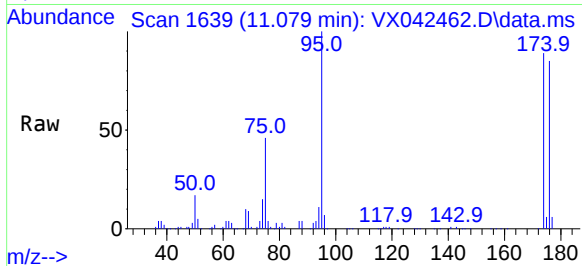
Tgt Ion:106 Resp: 658
Ion Ratio Lower Upper
106 100
91 231.2 103.2 309.6



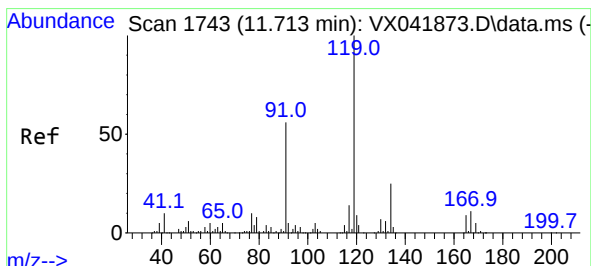
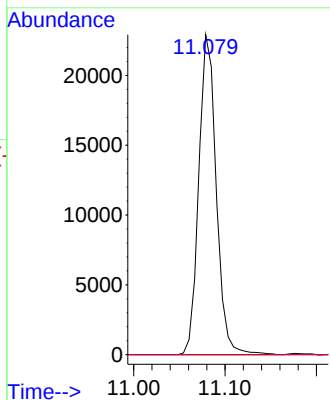
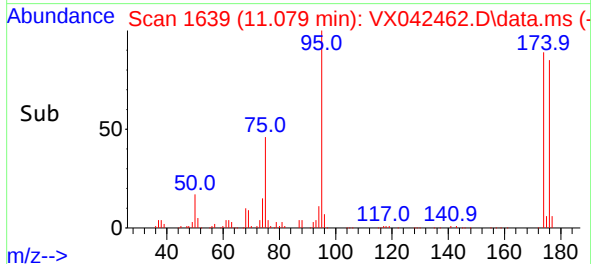


#77
t-1,4-Dichloro-2-butene
Concen: 38.136 ug/l
RT: 11.079 min Scan# 1
Delta R.T. 0.061 min
Lab File: VX042462.D
Acq: 23 Jul 2024 11:06

Instrument :
MSVOA_X
ClientSampleId :

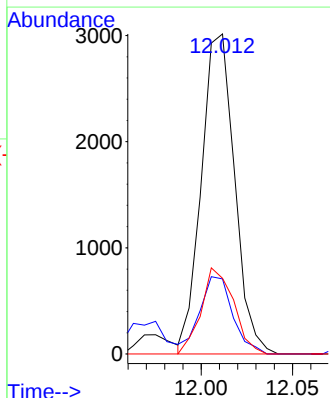
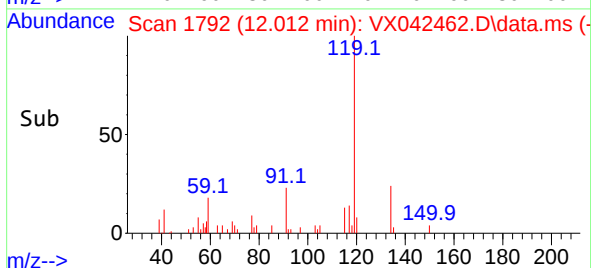
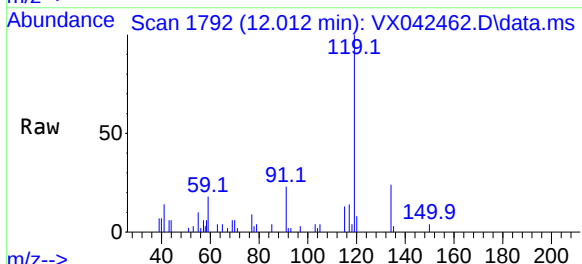


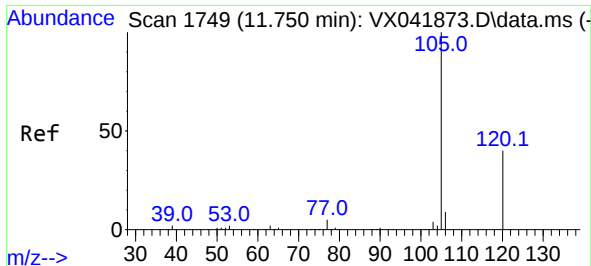
Tgt Ion: 75 Resp: 30452
Ion Ratio Lower Upper
75 100
53 0.0 53.4 160.2#
89 0.0 22.5 67.5#



#79
tert-butylbenzene
Concen: 0.537 ug/l
RT: 12.012 min Scan# 1792
Delta R.T. 0.298 min
Lab File: VX042462.D
Acq: 23 Jul 2024 11:06

Tgt Ion: 119 Resp: 3817
Ion Ratio Lower Upper
119 100
91 24.1 0.0 106.0
134 26.2 0.0 49.4

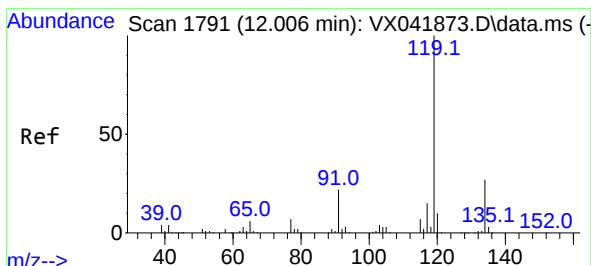
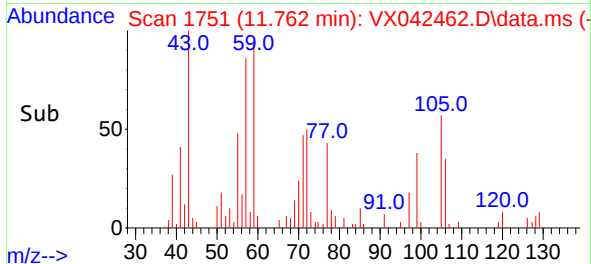
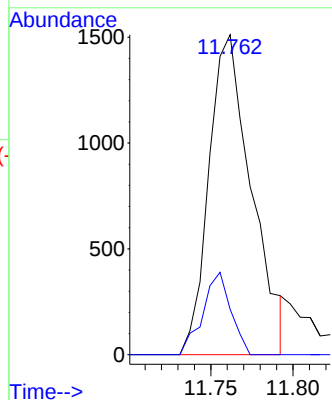
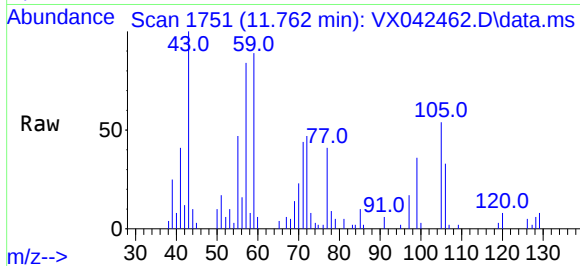




#80
1,2,4-Trimethylbenzene
Concen: 0.406 ug/l
RT: 11.762 min Scan# 1751
Delta R.T. 0.012 min
Lab File: VX042462.D
Acq: 23 Jul 2024 11:06

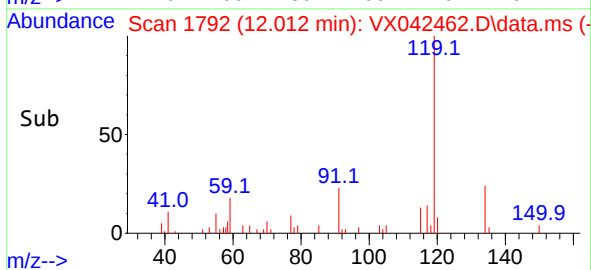
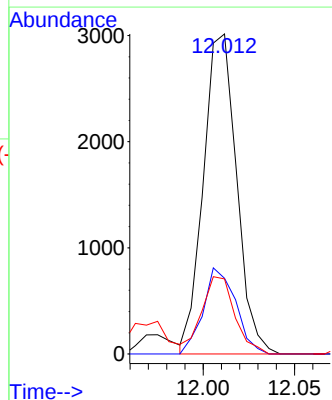
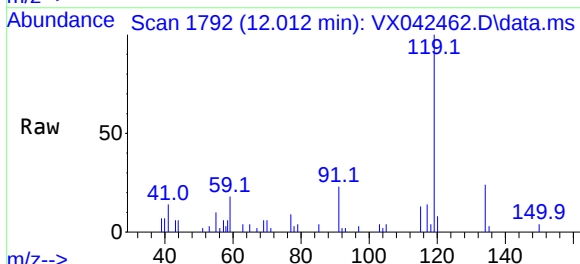
Instrument :
MSVOA_X
ClientSampleId :

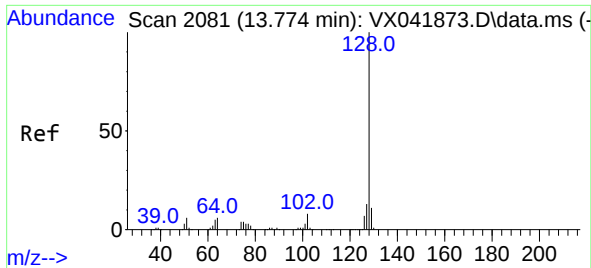
Tgt Ion:105 Resp: 2718
Ion Ratio Lower Upper
105 100
120 17.0 0.0 96.2



#82
p-Isopropyltoluene
Concen: 0.525 ug/l
RT: 12.012 min Scan# 1792
Delta R.T. 0.006 min
Lab File: VX042462.D
Acq: 23 Jul 2024 11:06

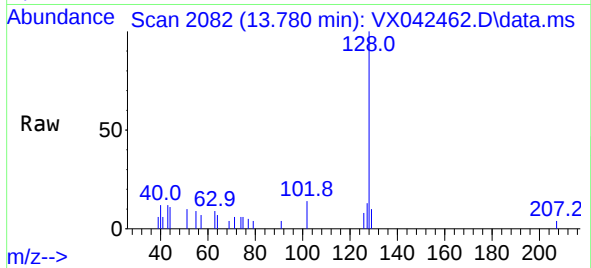
Tgt Ion:119 Resp: 3817
Ion Ratio Lower Upper
119 100
134 26.2 0.0 54.0
91 24.1 0.0 42.2





#91
Naphthalene
Concen: 0.231 ug/l
RT: 13.780 min Scan# 20
Delta R.T. 0.006 min
Lab File: VX042462.D
Acq: 23 Jul 2024 11:06

Instrument :
MSVOA_X
ClientSampleId :



Tgt Ion:128 Resp: 1925
Ion Ratio Lower Upper
128 100
127 9.8 10.4 15.6#
129 10.1 8.7 13.1

