

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX042022\
 Data File : VX028211.D
 Acq On : 20 Apr 2022 20:27
 Operator : JC/MD
 Sample : N2459-08
 Misc : 5.0mL/MSVOA_X/WATER
 ALS Vial : 26 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :
 31578

Quant Time: Apr 21 06:17:11 2022
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X041922W.M
 Quant Title : SW846 8260
 QLast Update : Tue Apr 19 13:38:04 2022
 Response via : Initial Calibration

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

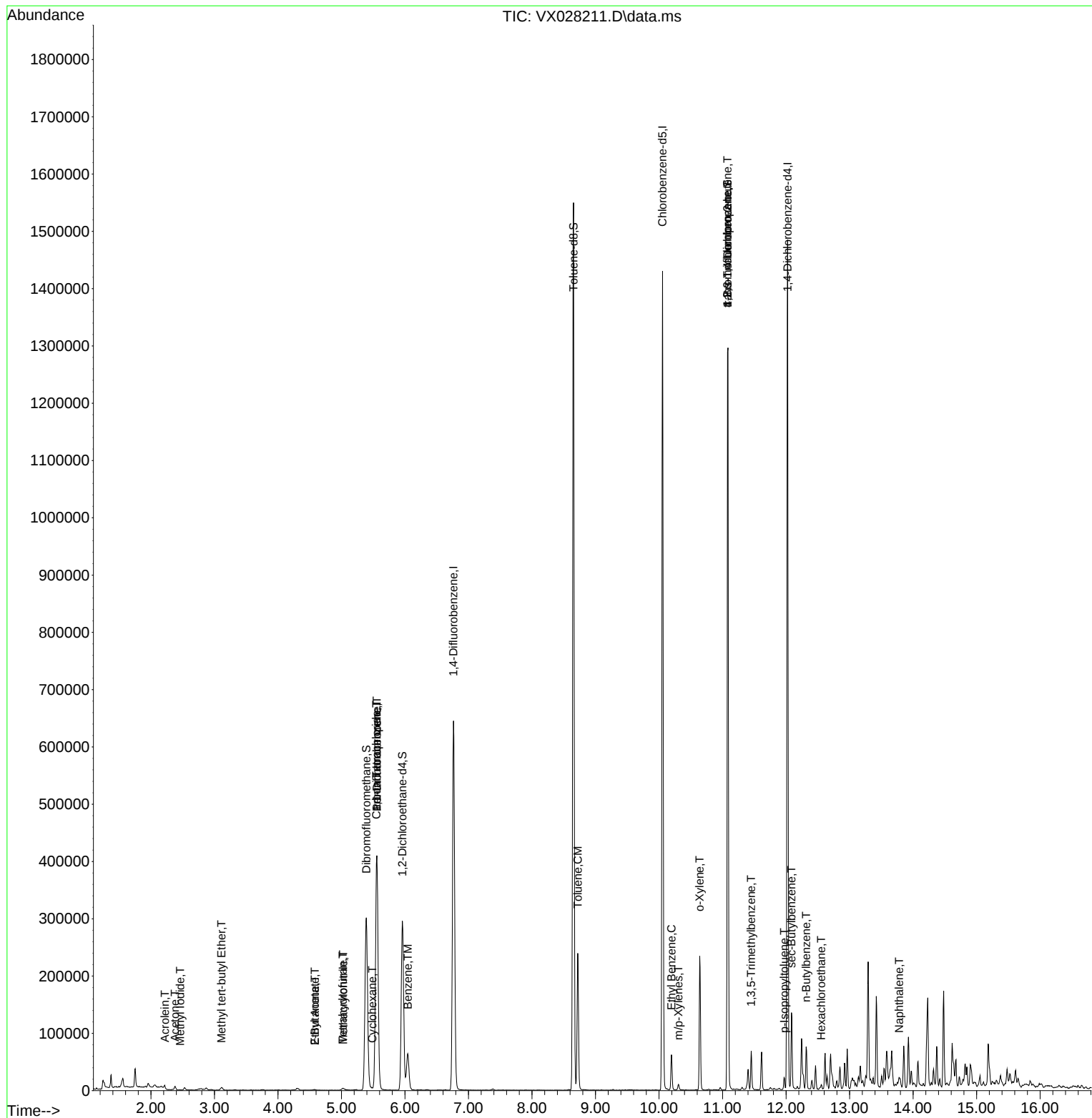
Internal Standards						
1) Pentafluorobenzene	5.556	168	407581	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	6.763	114	695078	50.000	ug/l	0.00
63) Chlorobenzene-d5	10.055	117	653713	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.024	152	314021	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	5.958	65	281390	52.949	ug/l	0.00
Spiked Amount	50.000	Range	61 - 141	Recovery	= 105.900%	
35) Dibromofluoromethane	5.391	113	260505	53.442	ug/l	0.00
Spiked Amount	50.000	Range	69 - 133	Recovery	= 106.880%	
50) Toluene-d8	8.653	98	943499	50.395	ug/l	0.00
Spiked Amount	50.000	Range	65 - 126	Recovery	= 100.780%	
62) 4-Bromofluorobenzene	11.079	95	346370	48.386	ug/l	0.00
Spiked Amount	50.000	Range	58 - 135	Recovery	= 96.780%	
Target Compounds						
					Qvalue	
3) Chloromethane	1.294	50	428	Below Cal		97
5) Bromomethane	1.605	94	711	Below Cal	#	48
6) Chloroethane	1.666	64	159	Below Cal	#	87
8) Diethyl Ether	2.367	74	23	Below Cal	#	1
10) Methyl Iodide	2.459	142	271	5.288	ug/l #	69
11) Tert butyl alcohol	2.953	59	715	Below Cal	#	72
13) Acrolein	2.221	56	175	0.269	ug/l #	1
16) Acetone	2.380	43	6825	2.824	ug/l	92
19) Methyl tert-butyl Ether	3.111	73	4043	0.310	ug/l #	74
25) 2-Butanone	4.580	43	1962	0.623	ug/l #	71
29) Tetrahydrofuran	5.019	42	2776	1.353	ug/l	96
31) Cyclohexane	5.483	56	1733	0.268	ug/l #	76
36) 1,1-Dichloropropene	5.556	75	29106	4.578	ug/l #	50
37) Ethyl Acetate	4.580	43	1962	0.304	ug/l #	65
38) Carbon Tetrachloride	5.550	117	41561	5.790	ug/l #	16
40) Benzene	6.043	78	78858	4.237	ug/l	99
41) Methacrylonitrile	5.025	41	1989	0.598	ug/l #	30
52) Toluene	8.720	92	92054	7.119	ug/l	99
67) Ethyl Benzene	10.195	91	36201	1.549	ug/l	100
68) m/p-Xylenes	10.305	106	2884	0.303	ug/l	88
69) o-Xylene	10.640	106	51874	5.470	ug/l	98
76) 1,2,3-Trichloropropane	11.079	75	172730	27.949	ug/l #	38
80) 1,3,5-Trimethylbenzene	11.451	105	27700	1.512	ug/l	100
81) trans-1,4-Dichloro-2-b...	11.079	75	172730	83.058	ug/l #	15
85) sec-Butylbenzene	12.085	105	61521	2.726	ug/l #	56
86) p-Isopropyltoluene	11.969	119	9706	0.498	ug/l	95
89) n-Butylbenzene	12.317	91	6490	0.406	ug/l #	1
90) Hexachloroethane	12.555	117	880	2.056	ug/l #	10
95) Naphthalene	13.780	128	10452	0.503	ug/l #	87

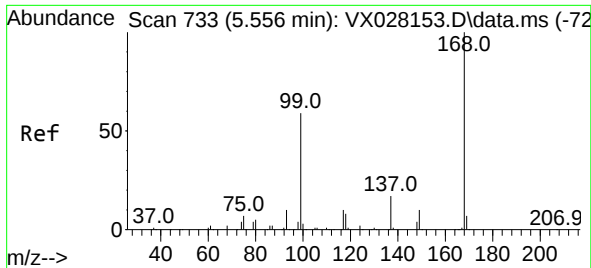
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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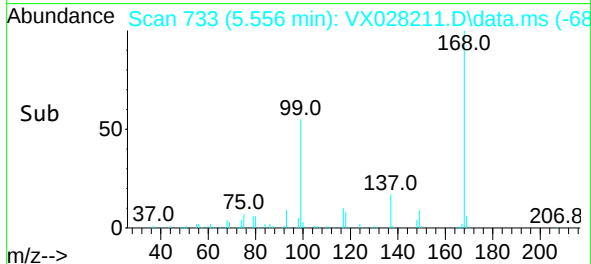
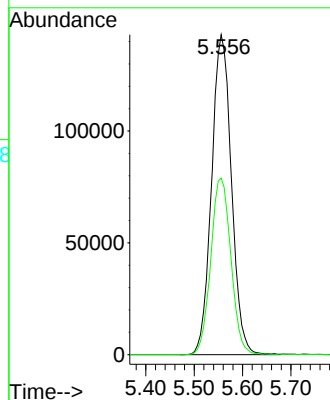
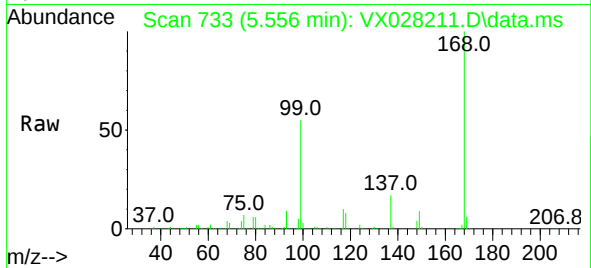




#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 5.556 min Scan# 71
Delta R.T. -0.000 min
Lab File: VX028211.D
Acq: 20 Apr 2022 20:27

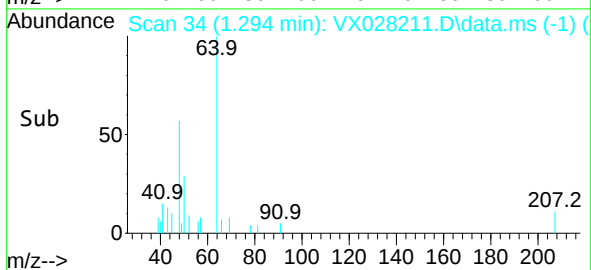
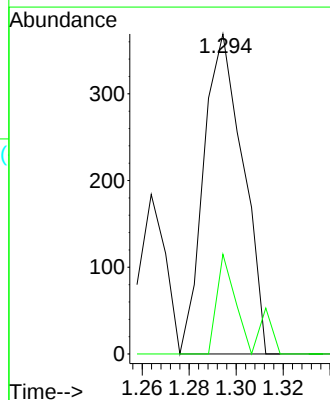
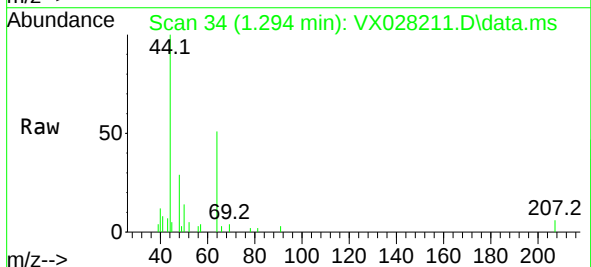
Instrument :
MSVOA_X
ClientSampleId :
31578

Tgt Ion:168 Resp: 407581
Ion Ratio Lower Upper
168 100
99 55.2 41.7 62.5



#3
Chloromethane
Concen: Below Cal
RT: 1.294 min Scan# 34
Delta R.T. 0.000 min
Lab File: VX028211.D
Acq: 20 Apr 2022 20:27

Tgt Ion: 50 Resp: 428
Ion Ratio Lower Upper
50 100
52 31.2 26.4 39.6

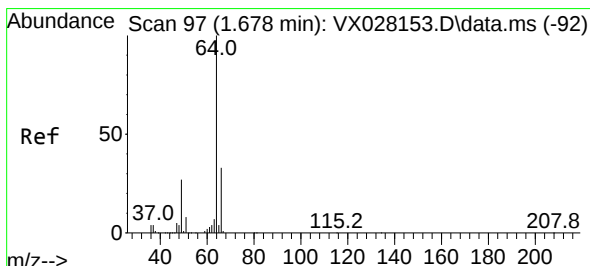
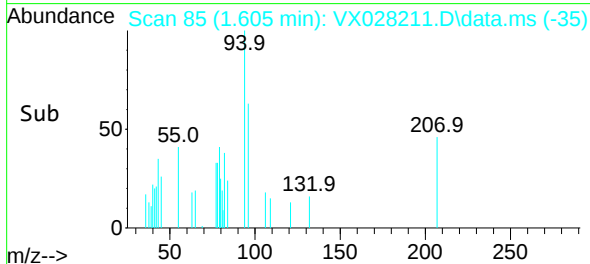
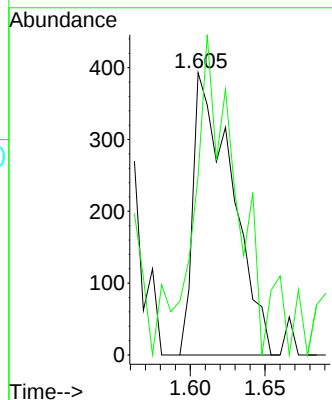
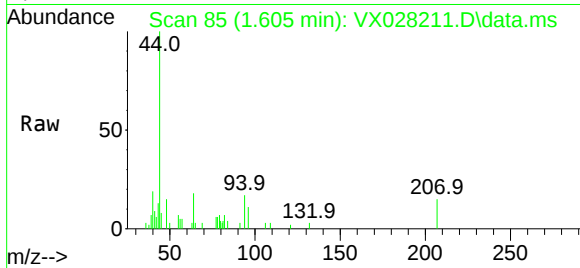




#5
Bromomethane
Concen: Below Cal
RT: 1.605 min Scan# 81
Delta R.T. 0.006 min
Lab File: VX028211.D
Acq: 20 Apr 2022 20:27

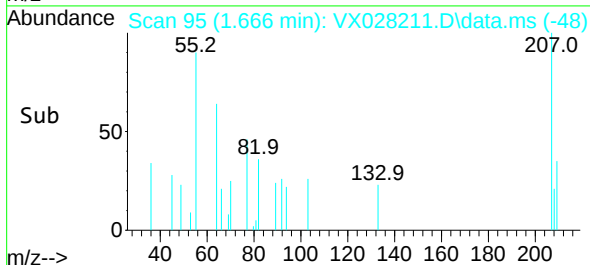
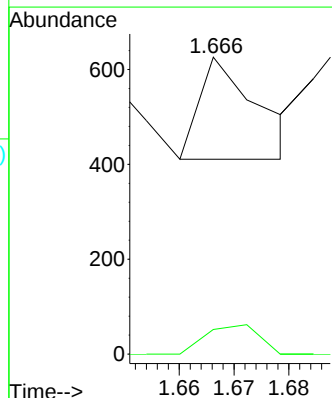
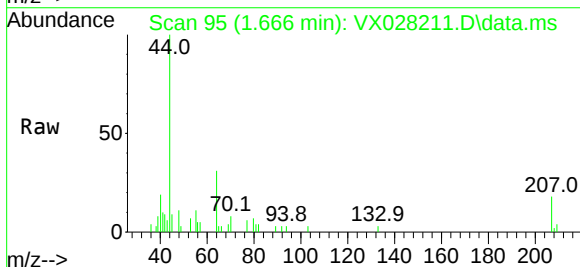
Instrument :
MSVOA_X
ClientSampleId :
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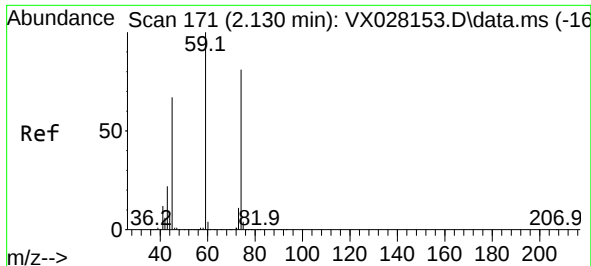
Tgt Ion: 94 Resp: 711
Ion Ratio Lower Upper
94 100
96 44.3 75.3 112.9#



#6
Chloroethane
Concen: Below Cal
RT: 1.666 min Scan# 95
Delta R.T. -0.012 min
Lab File: VX028211.D
Acq: 20 Apr 2022 20:27

Tgt Ion: 64 Resp: 159
Ion Ratio Lower Upper
64 100
66 24.2 25.3 37.9#





#8

Diethyl Ether

Concen: Below Cal

RT: 2.367 min Scan# 21

Delta R.T. 0.237 min

Lab File: VX028211.D

Acq: 20 Apr 2022 20:27

Instrument :

MSVOA_X

ClientSampleId :

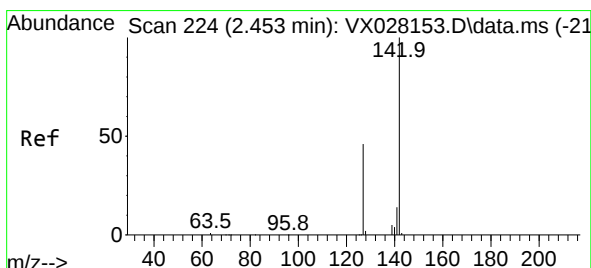
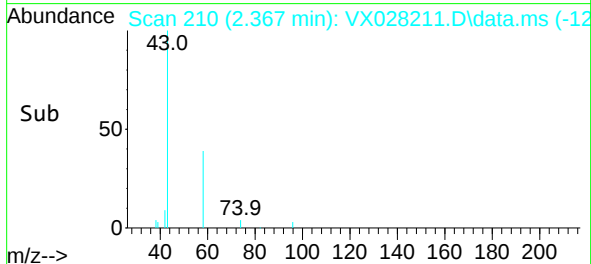
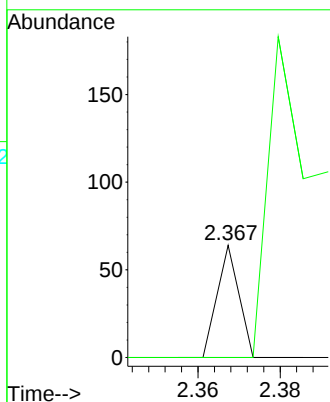
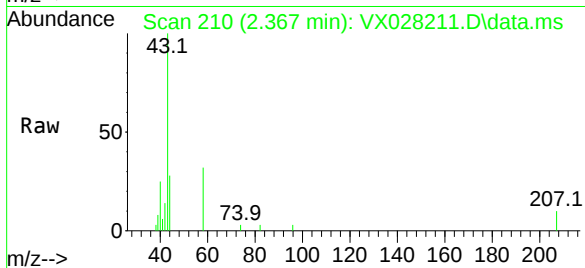
31578

Tgt Ion: 74 Resp: 23

Ion Ratio Lower Upper

74 100

45 965.2 42.0 126.0#



#10

Methyl Iodide

Concen: 5.288 ug/l

RT: 2.459 min Scan# 225

Delta R.T. 0.006 min

Lab File: VX028211.D

Acq: 20 Apr 2022 20:27

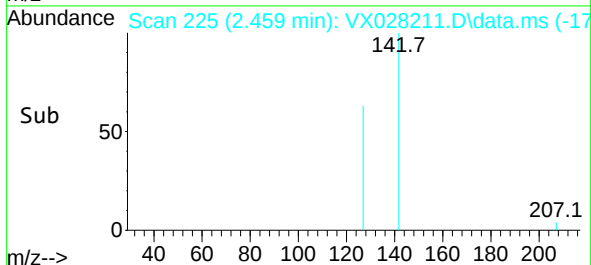
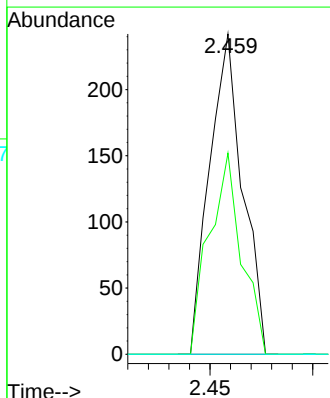
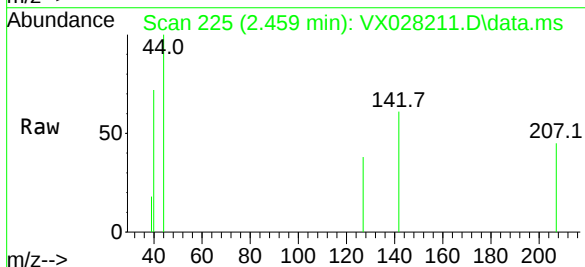
Tgt Ion:142 Resp: 271

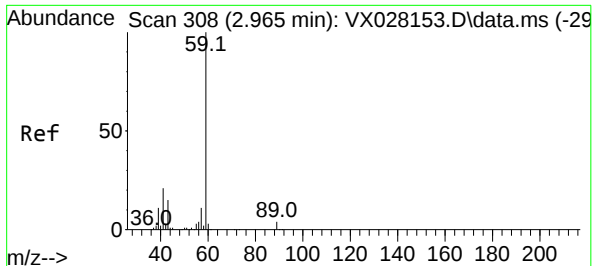
Ion Ratio Lower Upper

142 100

127 61.3 33.9 50.9#

141 0.0 11.4 17.2#

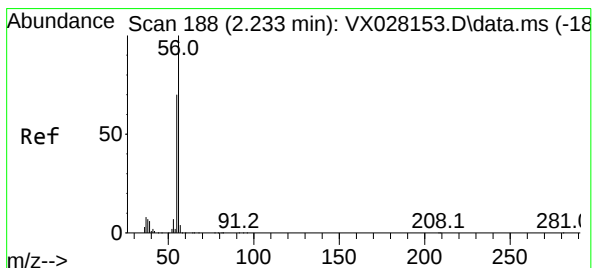
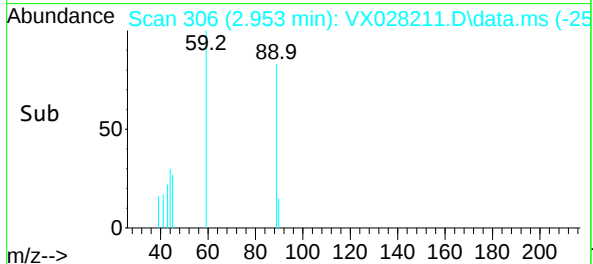
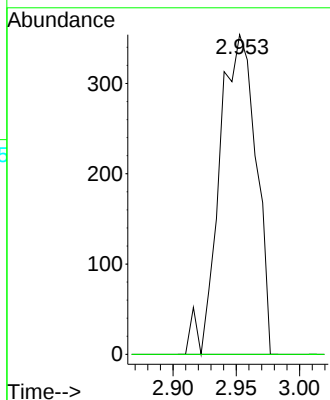
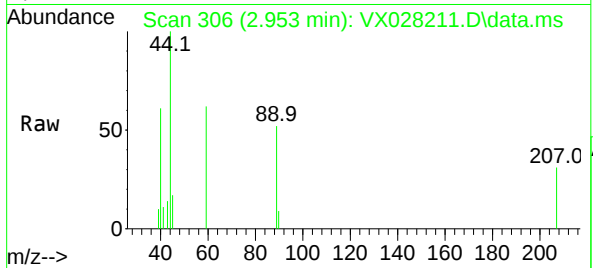




#11
Tert butyl alcohol
Concen: Below Cal
RT: 2.953 min Scan# 308
Delta R.T. -0.012 min
Lab File: VX028211.D
Acq: 20 Apr 2022 20:27

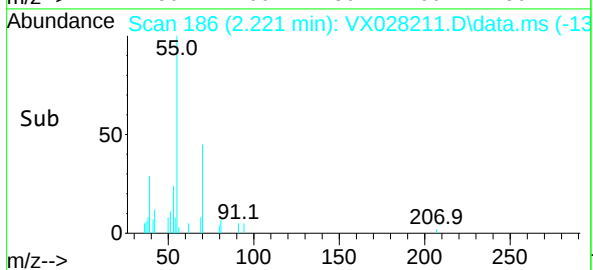
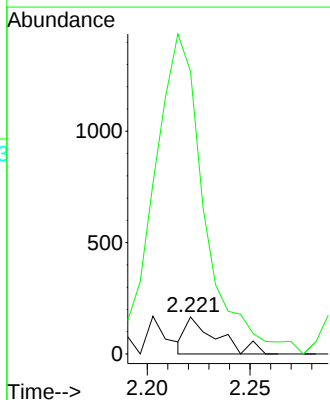
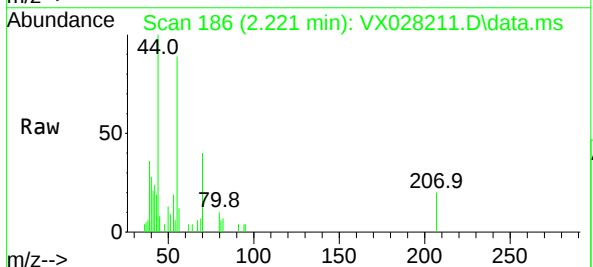
Instrument :
MSVOA_X
ClientSampleId :
31578

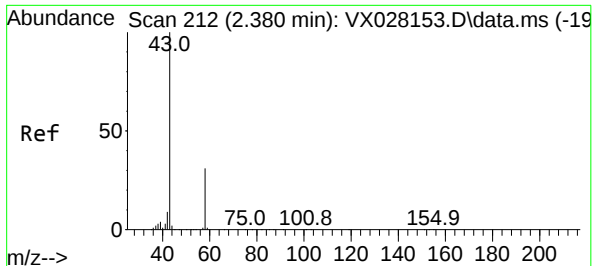
Tgt Ion: 59 Resp: 715
Ion Ratio Lower Upper
59 100
57 0.0 8.3 12.5#



#13
Acrolein
Concen: 0.269 ug/l
RT: 2.221 min Scan# 186
Delta R.T. -0.012 min
Lab File: VX028211.D
Acq: 20 Apr 2022 20:27

Tgt Ion: 56 Resp: 175
Ion Ratio Lower Upper
56 100
55 1369.1 55.0 82.6#

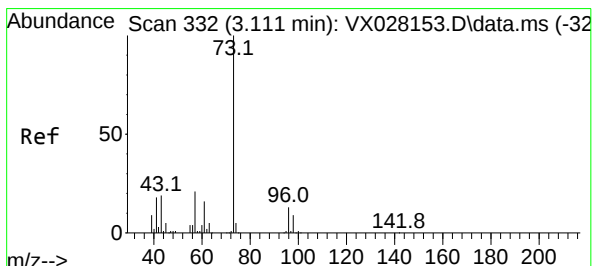
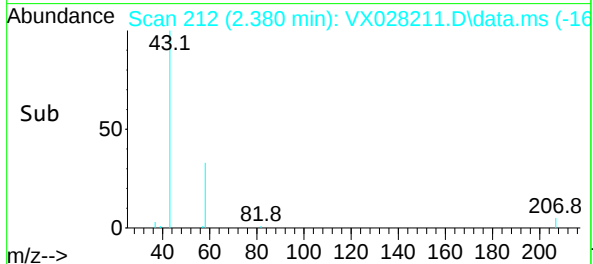
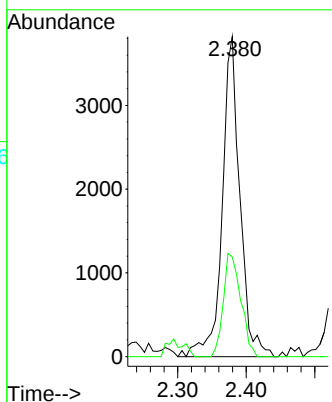
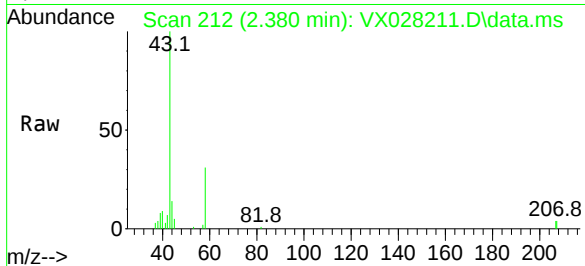




#16
Acetone
Concen: 2.824 ug/l
RT: 2.380 min Scan# 21
Delta R.T. -0.000 min
Lab File: VX028211.D
Acq: 20 Apr 2022 20:27

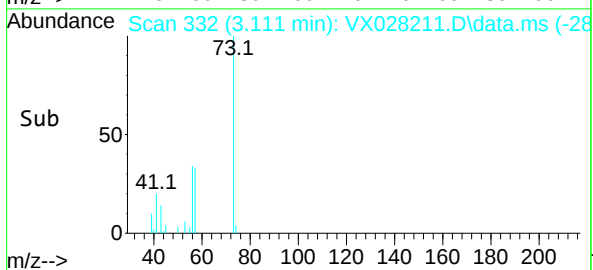
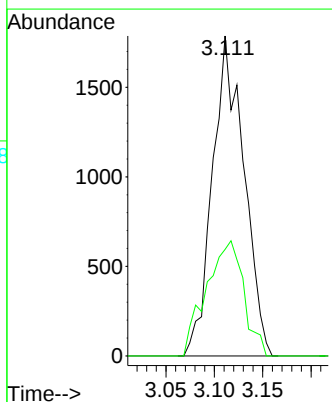
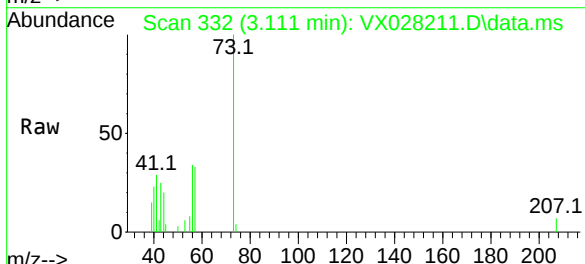
Instrument :
MSVOA_X
ClientSampleId :
31578

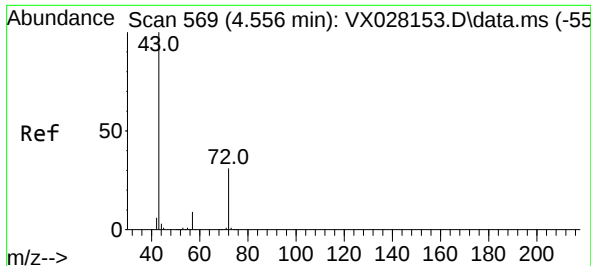
Tgt Ion: 43 Resp: 6825
Ion Ratio Lower Upper
43 100
58 31.2 28.8 43.2



#19
Methyl tert-butyl Ether
Concen: 0.310 ug/l
RT: 3.111 min Scan# 332
Delta R.T. 0.000 min
Lab File: VX028211.D
Acq: 20 Apr 2022 20:27

Tgt Ion: 73 Resp: 4043
Ion Ratio Lower Upper
73 100
57 33.3 16.8 25.2#





#25

2-Butanone

Concen: 0.623 ug/l

RT: 4.580 min Scan# 51

Delta R.T. 0.024 min

Lab File: VX028211.D

Acq: 20 Apr 2022 20:27

Instrument :

MSVOA_X

ClientSampleId :

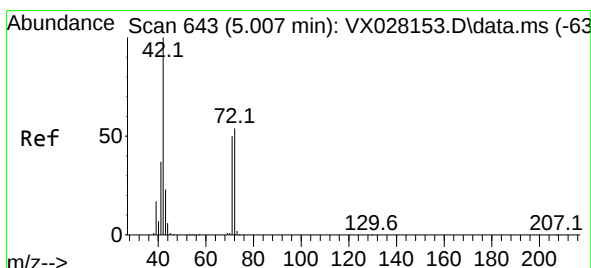
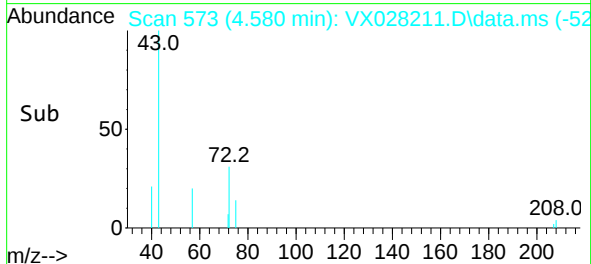
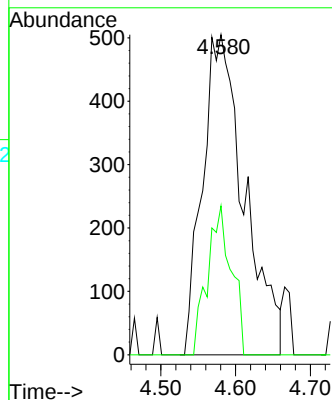
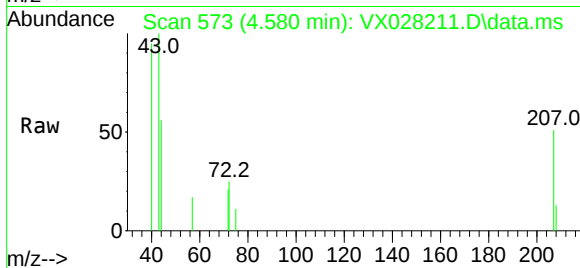
31578

Tgt Ion: 43 Resp: 1962

Ion Ratio Lower Upper

43 100

72 46.5 24.4 36.6#



#29

Tetrahydrofuran

Concen: 1.353 ug/l

RT: 5.019 min Scan# 645

Delta R.T. 0.012 min

Lab File: VX028211.D

Acq: 20 Apr 2022 20:27

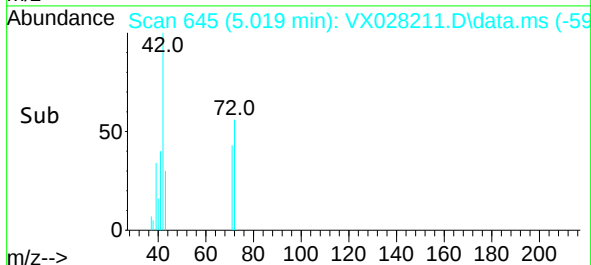
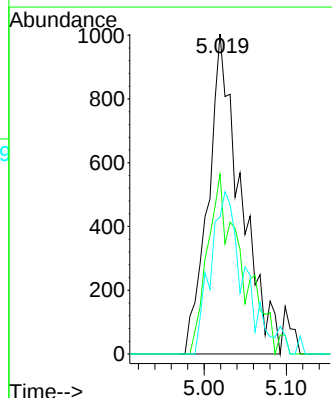
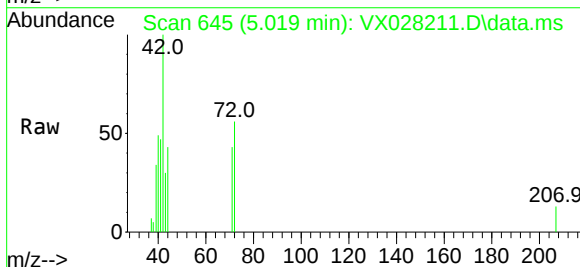
Tgt Ion: 42 Resp: 2776

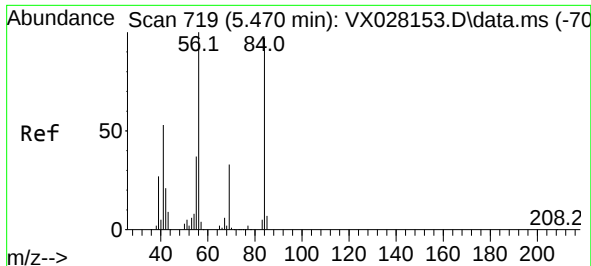
Ion Ratio Lower Upper

42 100

72 59.9 44.1 66.1

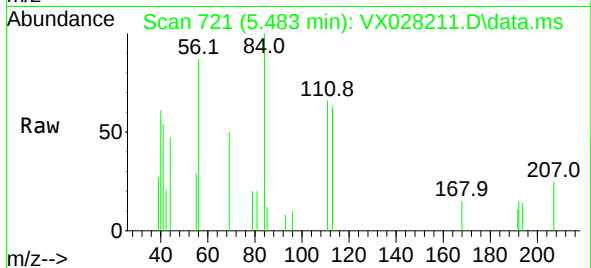
71 51.3 40.5 60.7



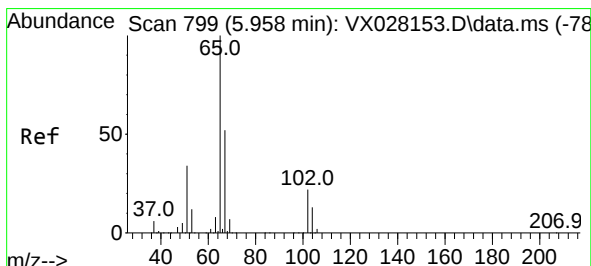
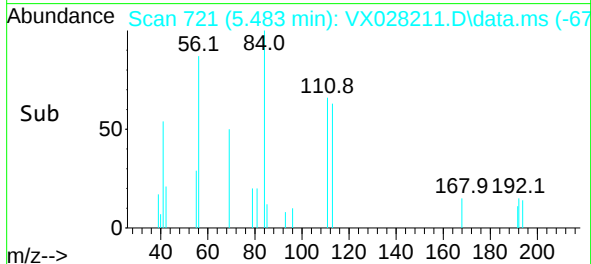
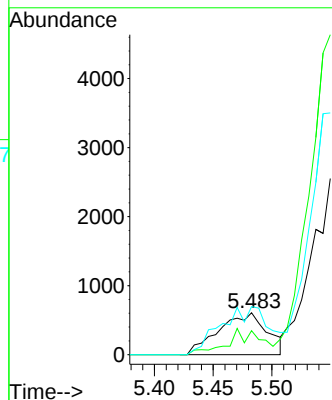


#31
Cyclohexane
Concen: 0.268 ug/l
RT: 5.483 min Scan# 719
Delta R.T. 0.013 min
Lab File: VX028211.D
Acq: 20 Apr 2022 20:27

Instrument :
MSVOA_X
ClientSampleId :
31578

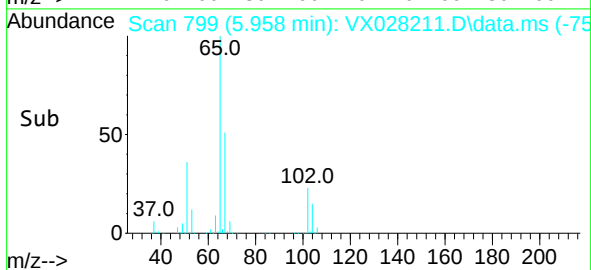
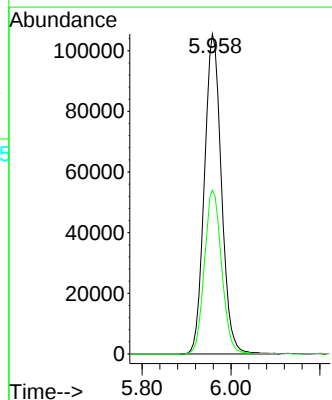
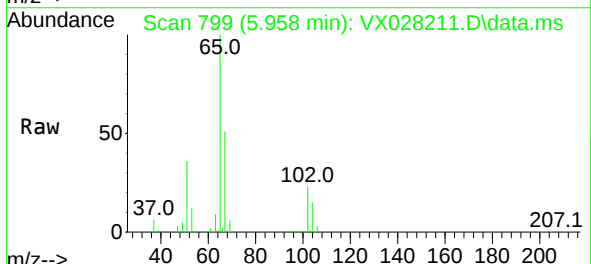


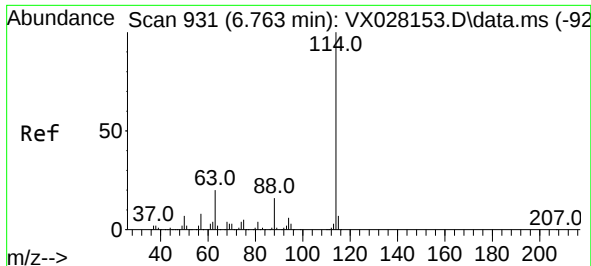
Tgt Ion: 56 Resp: 1733
Ion Ratio Lower Upper
56 100
69 57.2 26.7 40.1#
84 114.5 77.2 115.8



#33
1,2-Dichloroethane-d4
Concen: 52.949 ug/l
RT: 5.958 min Scan# 799
Delta R.T. 0.000 min
Lab File: VX028211.D
Acq: 20 Apr 2022 20:27

Tgt Ion: 65 Resp: 281390
Ion Ratio Lower Upper
65 100
67 51.7 0.0 107.4

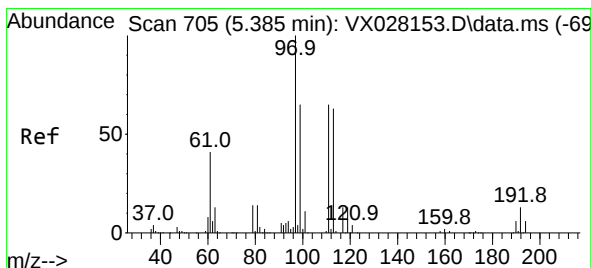
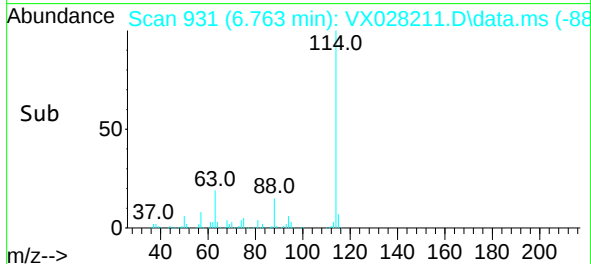
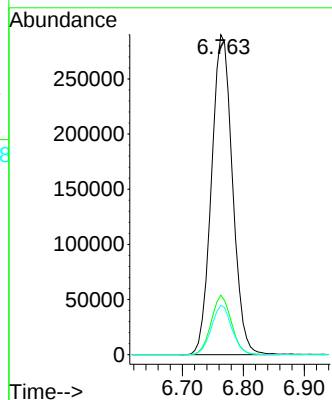
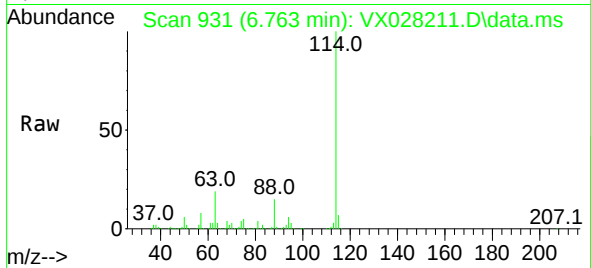




#34
1,4-Difluorobenzene
Concen: 50.000 ug/l
RT: 6.763 min Scan# 91
Delta R.T. -0.000 min
Lab File: VX028211.D
Acq: 20 Apr 2022 20:27

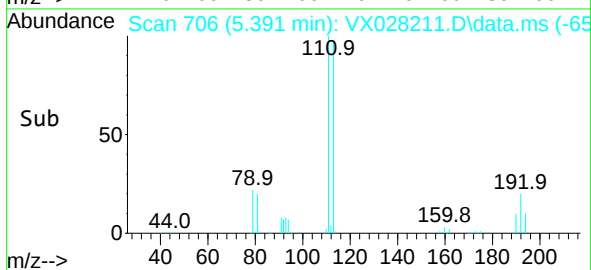
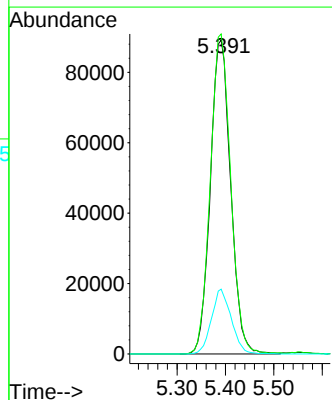
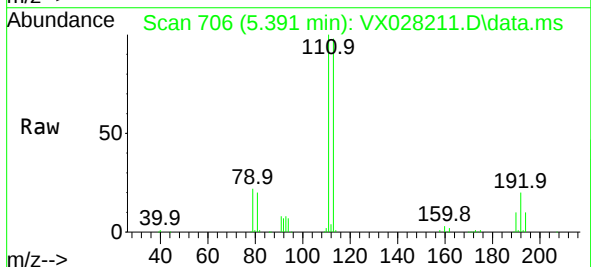
Instrument :
MSVOA_X
ClientSampleId :
31578

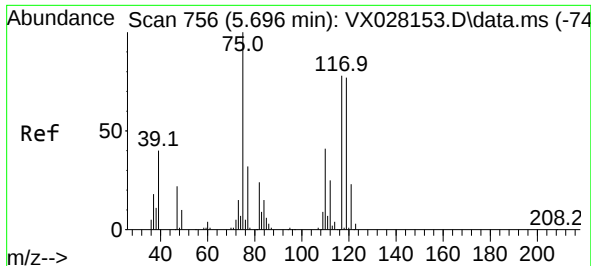
Tgt Ion:114 Resp: 695078
Ion Ratio Lower Upper
114 100
63 18.6 0.0 36.8
88 15.4 0.0 32.4



#35
Dibromofluoromethane
Concen: 53.442 ug/l
RT: 5.391 min Scan# 706
Delta R.T. 0.006 min
Lab File: VX028211.D
Acq: 20 Apr 2022 20:27

Tgt Ion:113 Resp: 260505
Ion Ratio Lower Upper
113 100
111 102.2 82.8 124.2
192 20.0 16.9 25.3

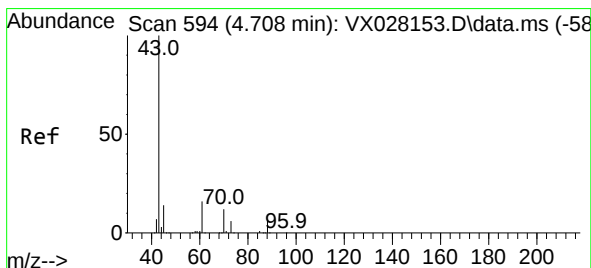
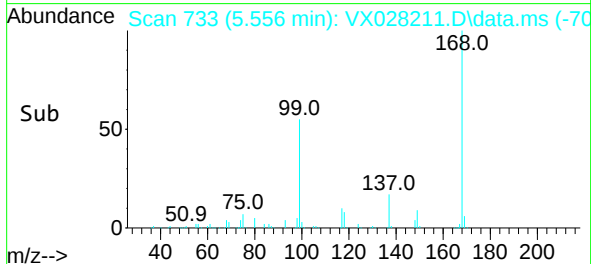
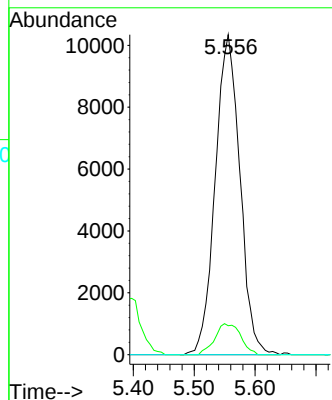
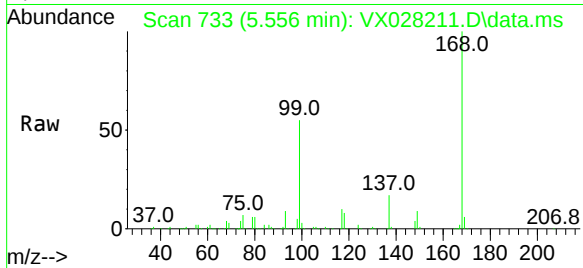




#36
1,1-Dichloropropene
Concen: 4.578 ug/l
RT: 5.556 min Scan# 71
Delta R.T. -0.140 min
Lab File: VX028211.D
Acq: 20 Apr 2022 20:27

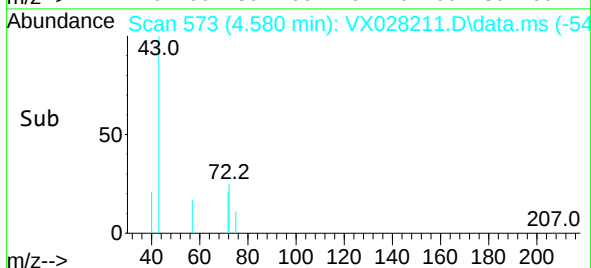
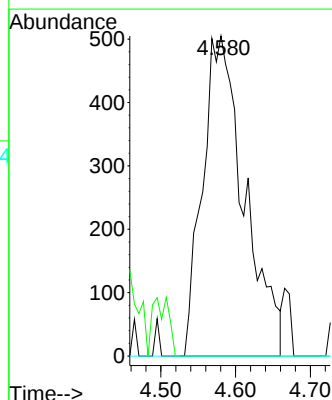
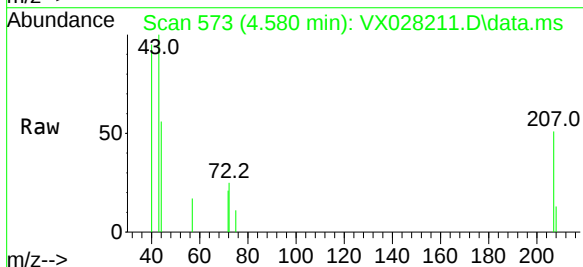
Instrument :
MSVOA_X
ClientSampleId :
31578

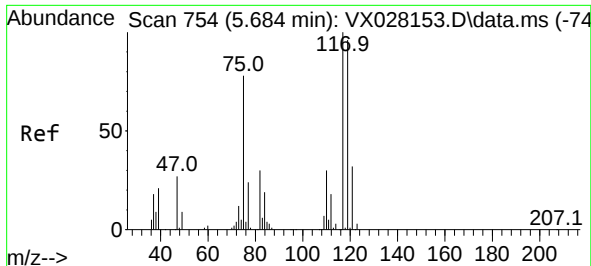
Tgt Ion: 75 Resp: 29106
Ion Ratio Lower Upper
75 100
110 10.1 18.3 54.8#
77 0.0 24.8 37.2#



#37
Ethyl Acetate
Concen: 0.304 ug/l
RT: 4.580 min Scan# 573
Delta R.T. -0.128 min
Lab File: VX028211.D
Acq: 20 Apr 2022 20:27

Tgt Ion: 43 Resp: 1962
Ion Ratio Lower Upper
43 100
61 0.0 12.6 19.0#
70 0.0 10.2 15.2#

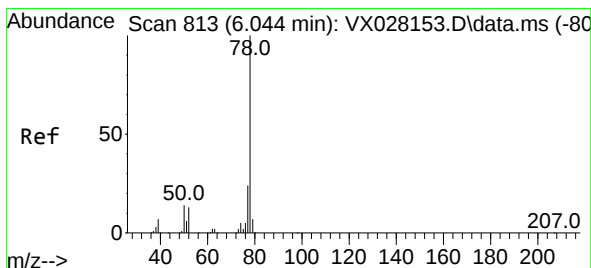
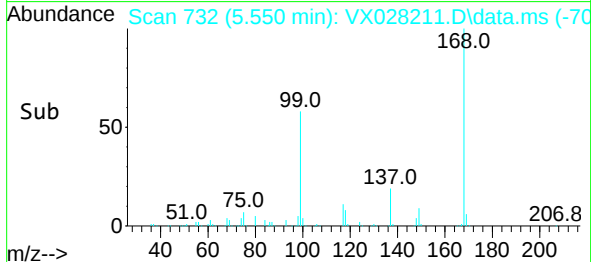
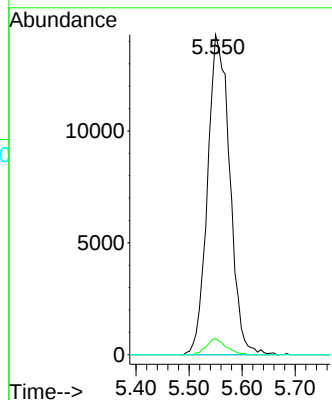
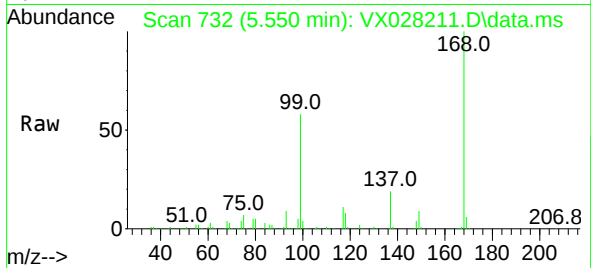




#38
Carbon Tetrachloride
Concen: 5.790 ug/l
RT: 5.550 min Scan# 715
Delta R.T. -0.134 min
Lab File: VX028211.D
Acq: 20 Apr 2022 20:27

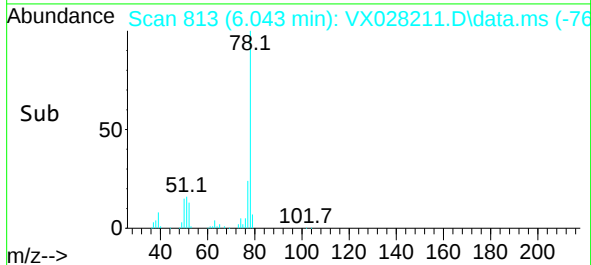
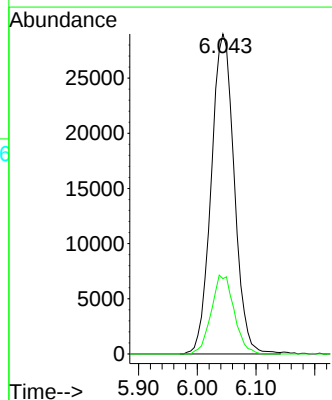
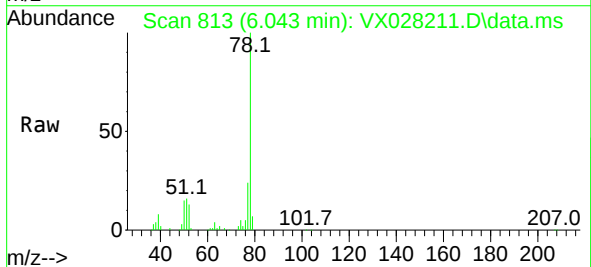
Instrument :
MSVOA_X
ClientSampleId :
31578

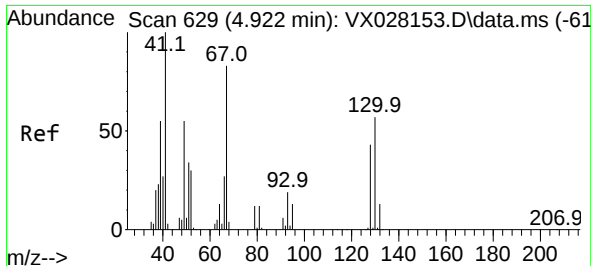
Tgt Ion:117 Resp: 41561
Ion Ratio Lower Upper
117 100
119 5.0 77.3 115.9#
121 0.0 24.2 36.2#



#40
Benzene
Concen: 4.237 ug/l
RT: 6.043 min Scan# 813
Delta R.T. -0.001 min
Lab File: VX028211.D
Acq: 20 Apr 2022 20:27

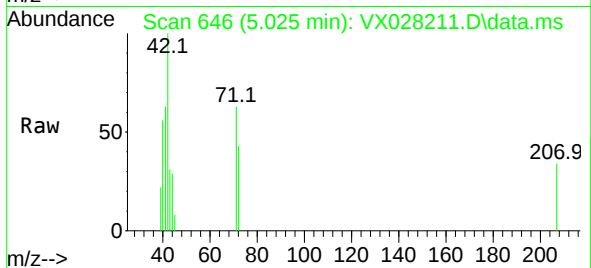
Tgt Ion: 78 Resp: 78858
Ion Ratio Lower Upper
78 100
77 23.6 19.3 28.9



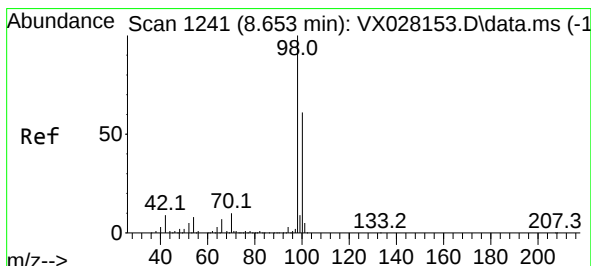
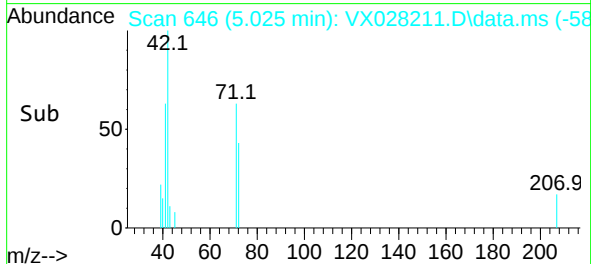
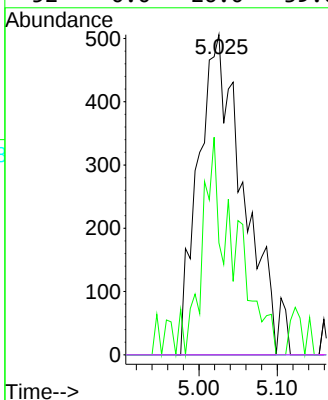


#41
Methacrylonitrile
Concen: 0.598 ug/l
RT: 5.025 min Scan# 646
Delta R.T. 0.103 min
Lab File: VX028211.D
Acq: 20 Apr 2022 20:27

Instrument :
MSVOA_X
ClientSampleId :
31578

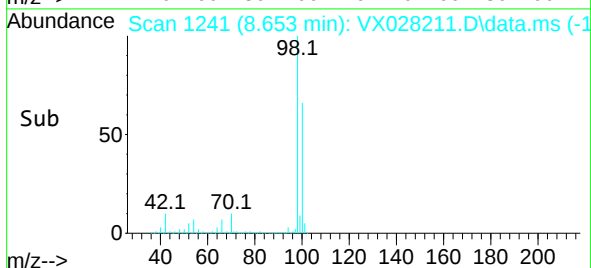
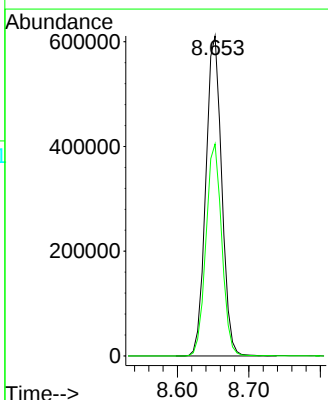
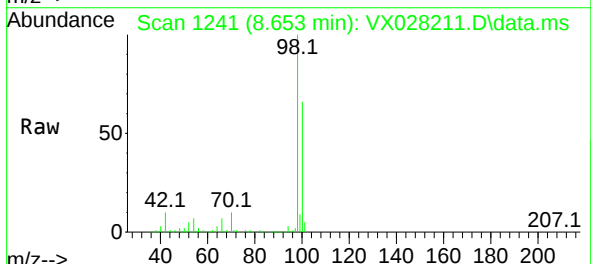


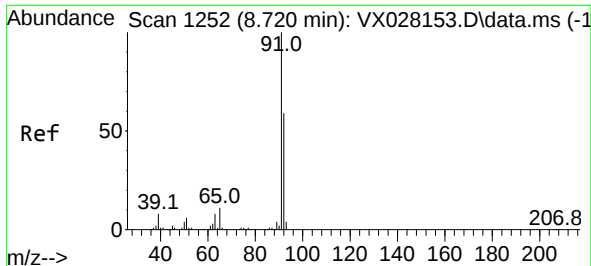
Tgt Ion: 41	Resp: 1989
Ion Ratio	Lower Upper
41 100	
39 27.4	43.0 64.4#
67 0.0	70.2 105.4#
52 0.0	26.0 39.0#



#50
Toluene-d8
Concen: 50.395 ug/l
RT: 8.653 min Scan# 1241
Delta R.T. -0.000 min
Lab File: VX028211.D
Acq: 20 Apr 2022 20:27

Tgt Ion: 98	Resp: 943499
Ion Ratio	Lower Upper
98 100	
100 65.9	52.6 78.8

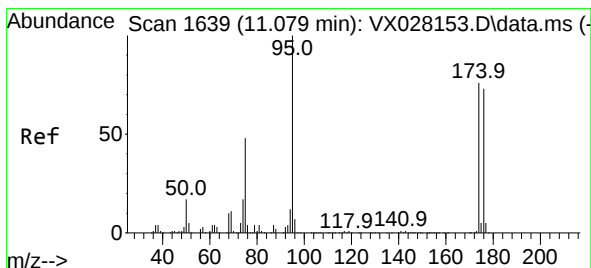
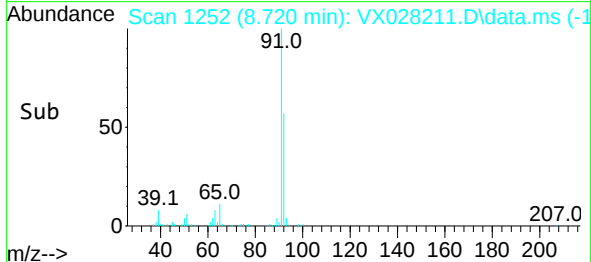
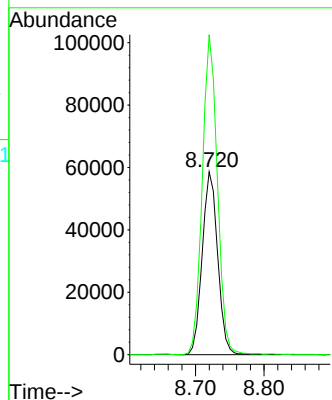
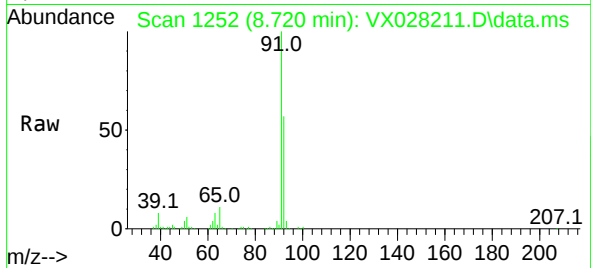




#52
Toluene
Concen: 7.119 ug/l
RT: 8.720 min Scan# 11
Delta R.T. -0.000 min
Lab File: VX028211.D
Acq: 20 Apr 2022 20:27

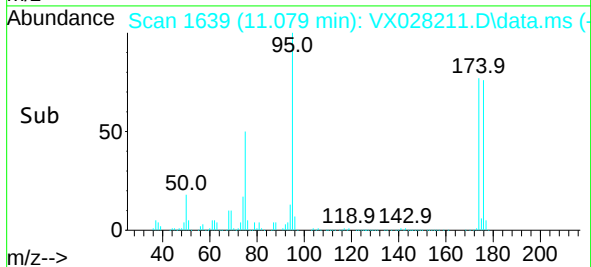
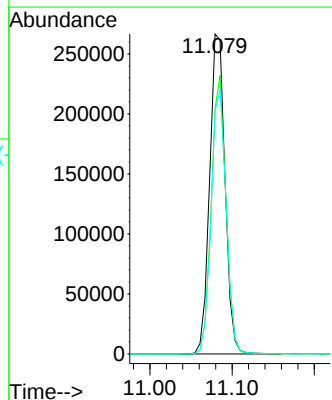
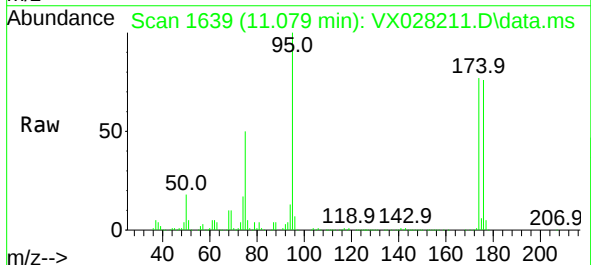
Instrument :
MSVOA_X
ClientSampleId :
31578

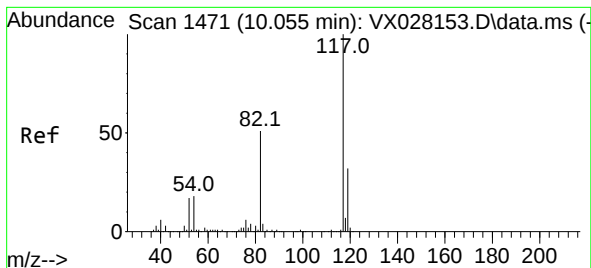
Tgt Ion: 92 Resp: 92054
Ion Ratio Lower Upper
92 100
91 171.2 137.5 206.3



#62
4-Bromofluorobenzene
Concen: 48.386 ug/l
RT: 11.079 min Scan# 1639
Delta R.T. 0.000 min
Lab File: VX028211.D
Acq: 20 Apr 2022 20:27

Tgt Ion: 95 Resp: 346370
Ion Ratio Lower Upper
95 100
174 83.1 0.0 163.0
176 81.0 0.0 155.0





#63

Chlorobenzene-d5

Concen: 50.000 ug/l

RT: 10.055 min Scan# 1471

Delta R.T. -0.000 min

Lab File: VX028211.D

Acq: 20 Apr 2022 20:27

Instrument :

MSVOA_X

ClientSampleId :

31578

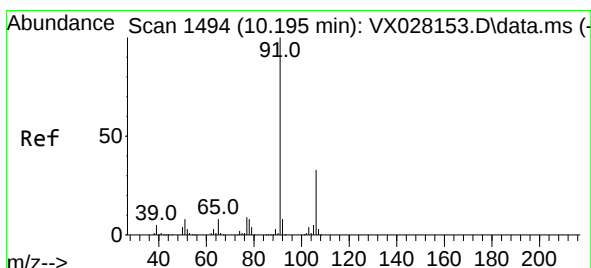
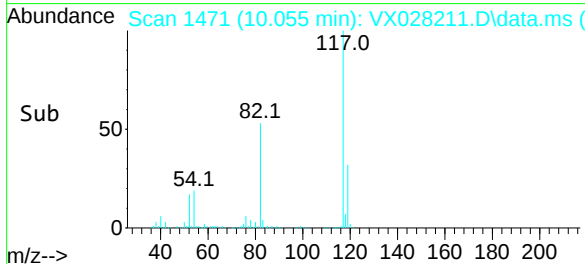
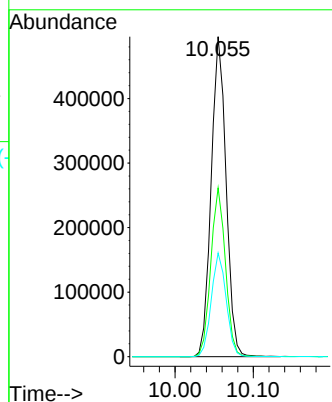
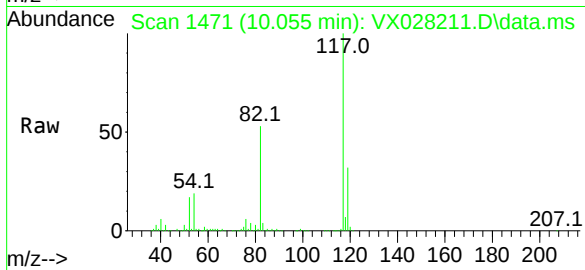
Tgt Ion:117 Resp: 653713

Ion Ratio Lower Upper

117 100

82 52.7 41.8 62.8

119 32.4 24.8 37.2



#67

Ethyl Benzene

Concen: 1.549 ug/l

RT: 10.195 min Scan# 1494

Delta R.T. 0.000 min

Lab File: VX028211.D

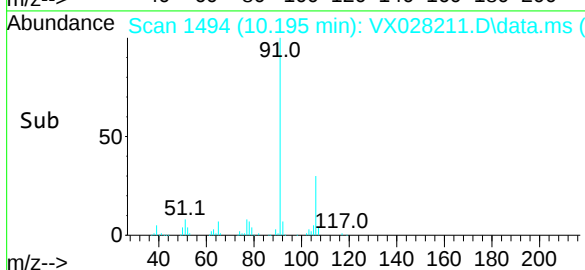
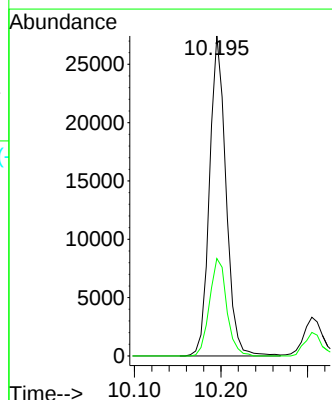
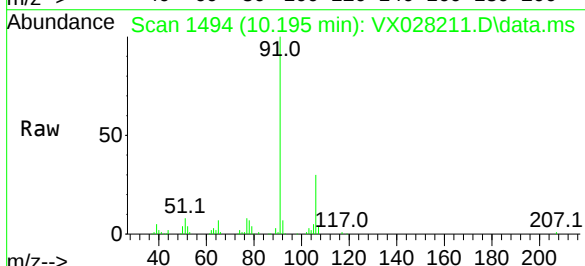
Acq: 20 Apr 2022 20:27

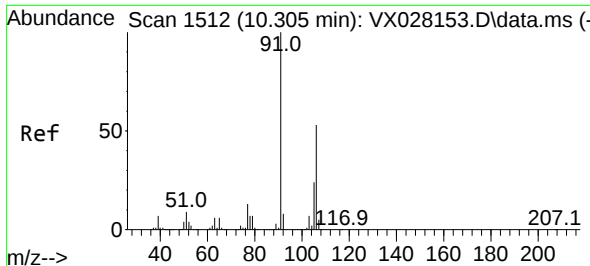
Tgt Ion: 91 Resp: 36201

Ion Ratio Lower Upper

91 100

106 30.5 24.6 36.8

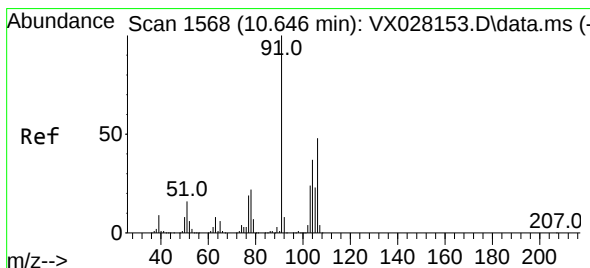
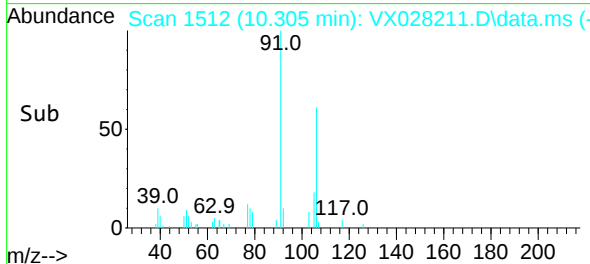
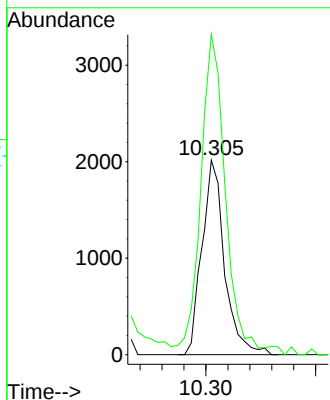
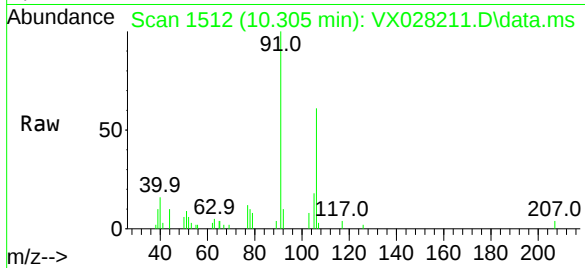




#68
m/p-Xylenes
Concen: 0.303 ug/l
RT: 10.305 min Scan# 1512
Delta R.T. -0.000 min
Lab File: VX028211.D
Acq: 20 Apr 2022 20:27

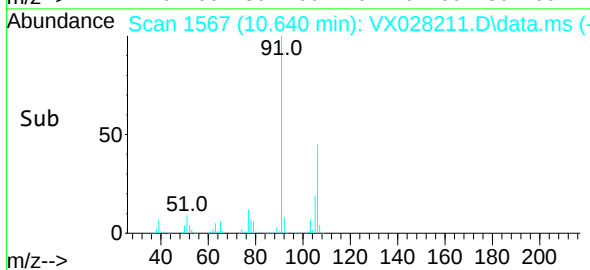
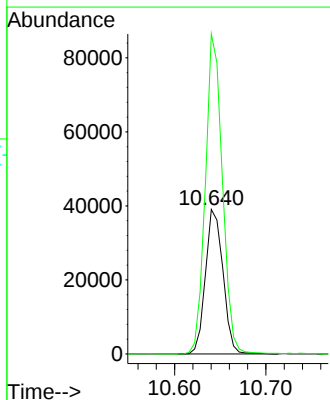
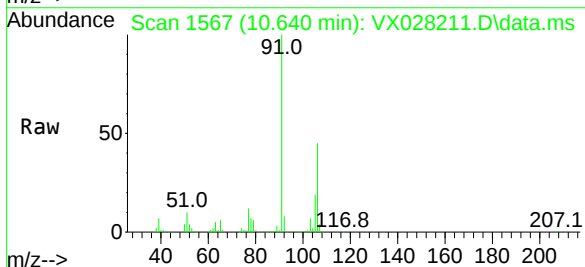
Instrument :
MSVOA_X
ClientSampleId :
31578

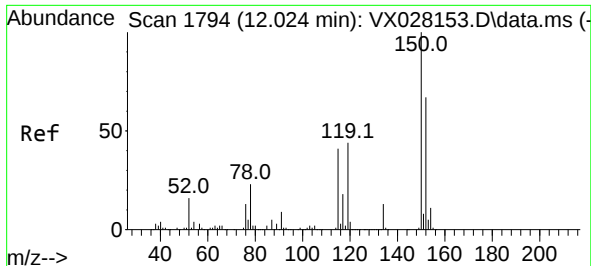
Tgt Ion:106 Resp: 2884
Ion Ratio Lower Upper
106 100
91 182.9 160.4 240.6



#69
o-Xylene
Concen: 5.470 ug/l
RT: 10.640 min Scan# 1567
Delta R.T. -0.006 min
Lab File: VX028211.D
Acq: 20 Apr 2022 20:27

Tgt Ion:106 Resp: 51874
Ion Ratio Lower Upper
106 100
91 215.5 106.1 318.1

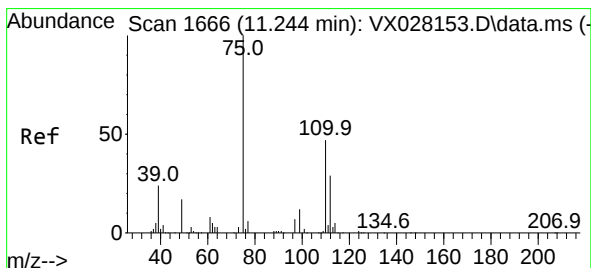
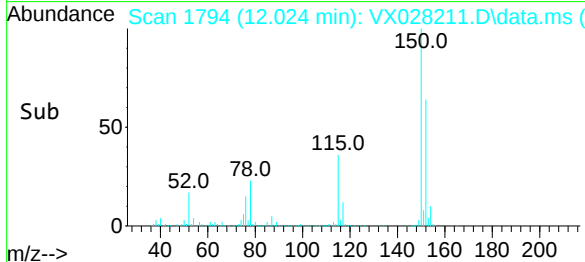
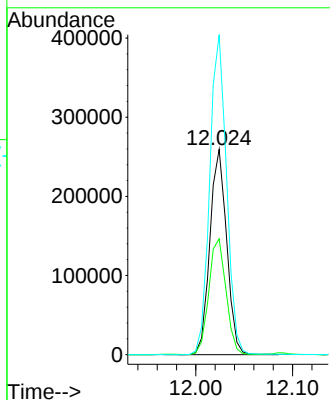
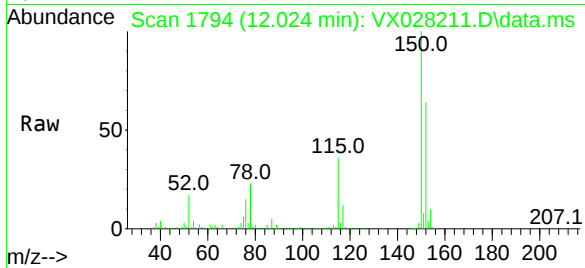




#72
 1,4-Dichlorobenzene-d4
 Concen: 50.000 ug/l
 RT: 12.024 min Scan# 11
 Delta R.T. 0.000 min
 Lab File: VX028211.D
 Acq: 20 Apr 2022 20:27

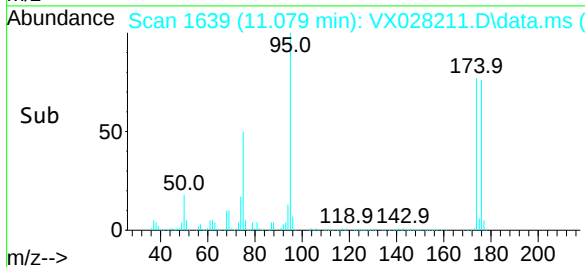
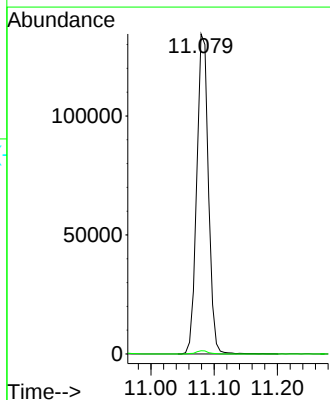
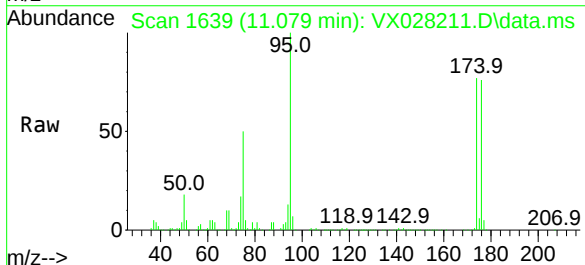
Instrument :
 MSVOA_X
 ClientSampleId :
 31578

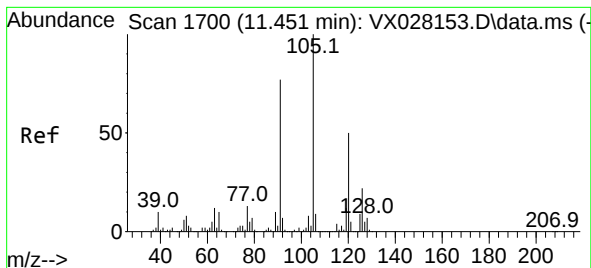
Tgt Ion:152 Resp: 314021
 Ion Ratio Lower Upper
 152 100
 115 57.7 37.5 112.7
 150 156.2 0.0 338.2



#76
 1,2,3-Trichloropropane
 Concen: 27.949 ug/l
 RT: 11.079 min Scan# 1639
 Delta R.T. -0.165 min
 Lab File: VX028211.D
 Acq: 20 Apr 2022 20:27

Tgt Ion: 75 Resp: 172730
 Ion Ratio Lower Upper
 75 100
 77 1.1 19.4 58.2#





#80

1,3,5-Trimethylbenzene

Concen: 1.512 ug/l

RT: 11.451 min Scan# 11

Delta R.T. 0.000 min

Lab File: VX028211.D

Acq: 20 Apr 2022 20:27

Instrument :

MSVOA_X

ClientSampleId :

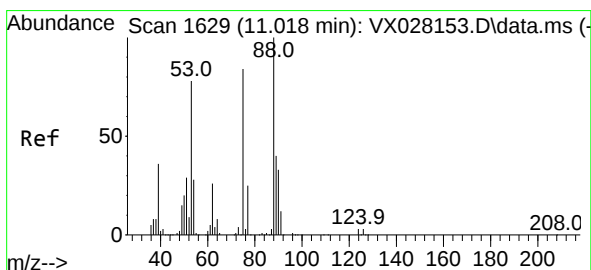
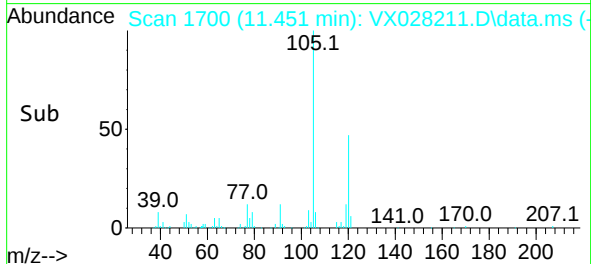
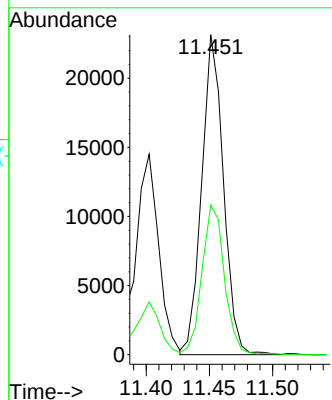
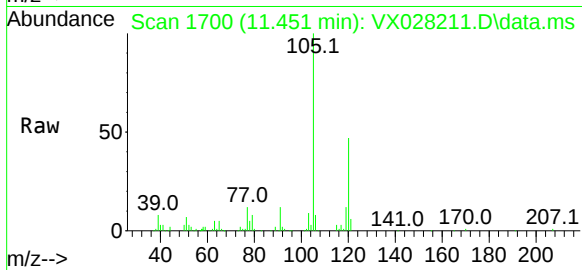
31578

Tgt Ion:105 Resp: 27700

Ion Ratio Lower Upper

105 100

120 48.5 24.3 72.9



#81

trans-1,4-Dichloro-2-butene

Concen: 83.058 ug/l

RT: 11.079 min Scan# 1639

Delta R.T. 0.061 min

Lab File: VX028211.D

Acq: 20 Apr 2022 20:27

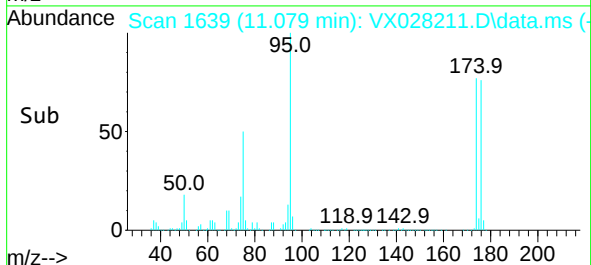
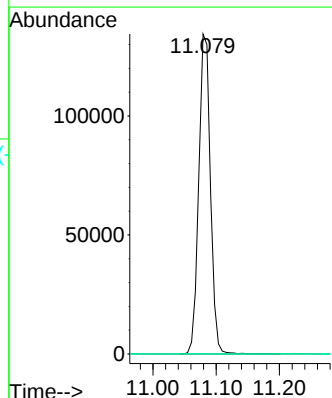
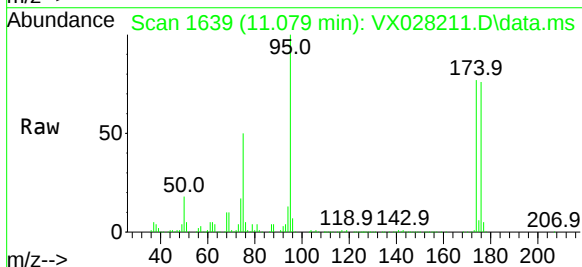
Tgt Ion: 75 Resp: 172730

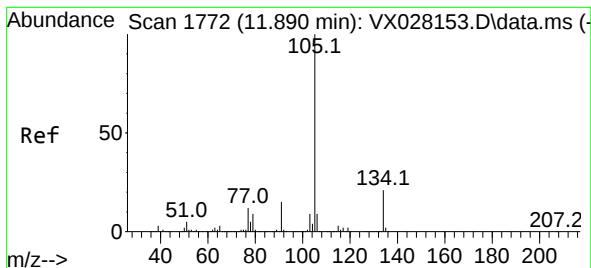
Ion Ratio Lower Upper

75 100

53 0.0 69.0 103.4#

89 0.0 37.0 55.6#





#85

sec-Butylbenzene

Concen: 2.726 ug/l

RT: 12.085 min Scan# 1785

Delta R.T. 0.195 min

Lab File: VX028211.D

Acq: 20 Apr 2022 20:27

Instrument :

MSVOA_X

ClientSampleId :

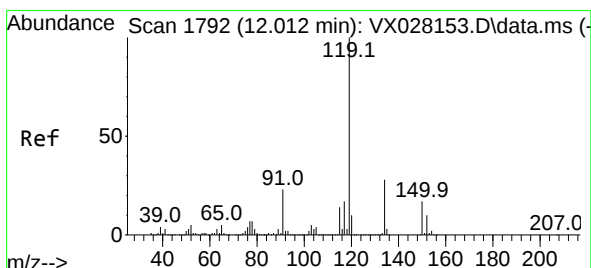
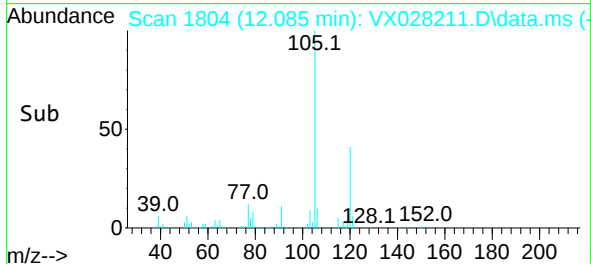
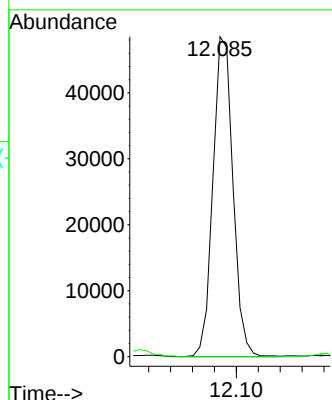
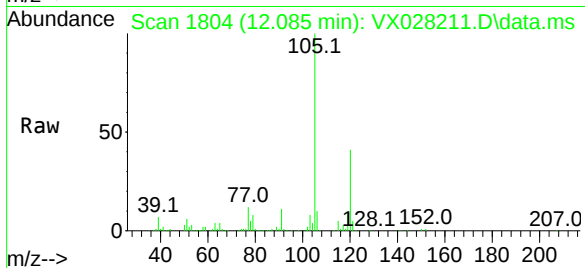
31578

Tgt Ion:105 Resp: 61521

Ion Ratio Lower Upper

105 100

134 0.0 10.2 30.4#



#86

p-Isopropyltoluene

Concen: 0.498 ug/l

RT: 11.969 min Scan# 1785

Delta R.T. -0.043 min

Lab File: VX028211.D

Acq: 20 Apr 2022 20:27

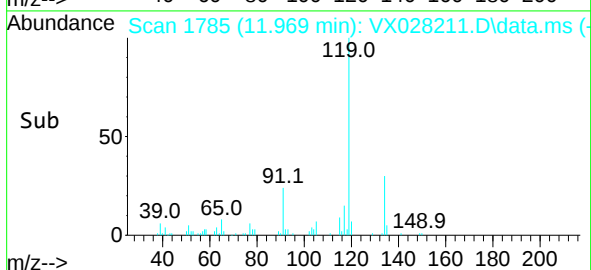
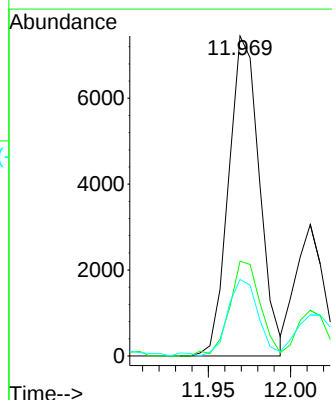
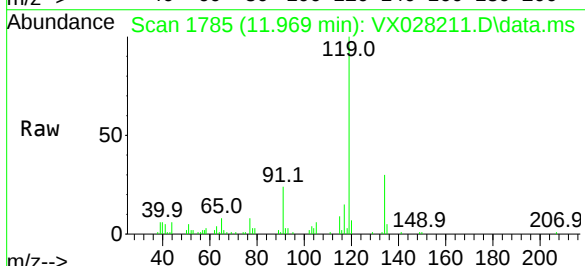
Tgt Ion:119 Resp: 9706

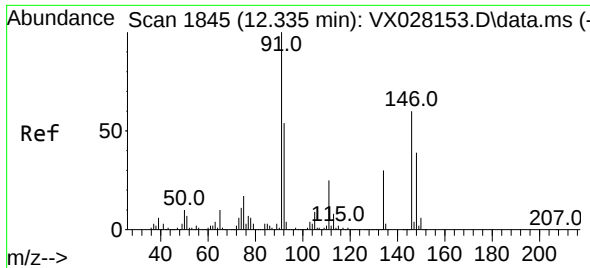
Ion Ratio Lower Upper

119 100

134 29.5 13.0 39.0

91 24.0 11.3 33.9

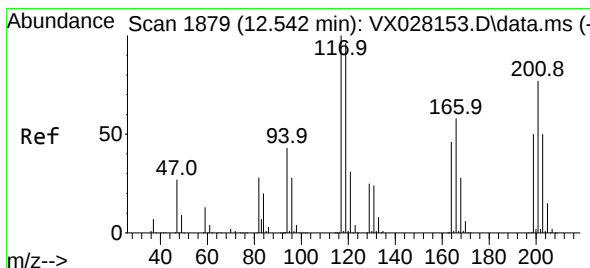
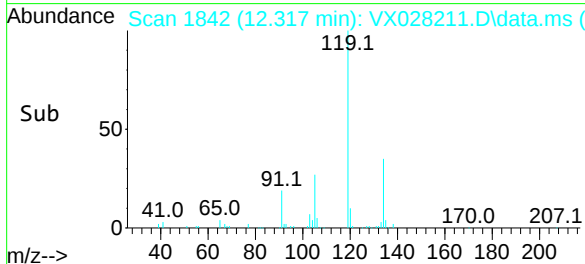
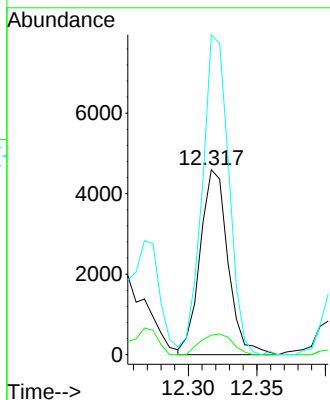
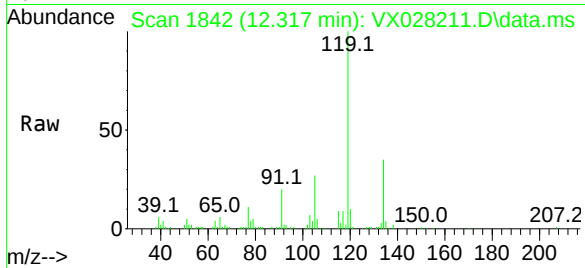




#89
n-Butylbenzene
Concen: 0.406 ug/l
RT: 12.317 min Scan# 11
Delta R.T. -0.018 min
Lab File: VX028211.D
Acq: 20 Apr 2022 20:27

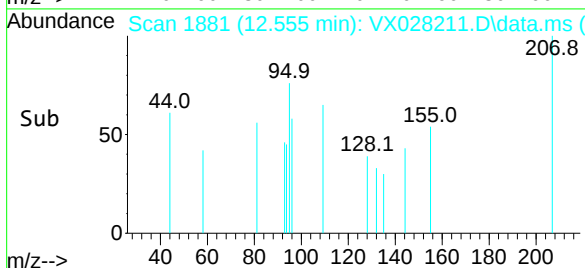
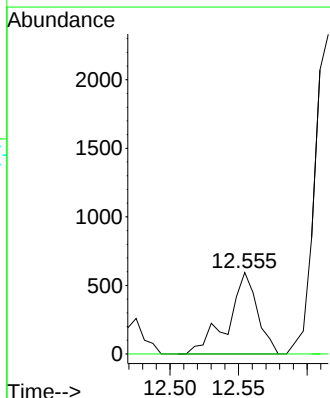
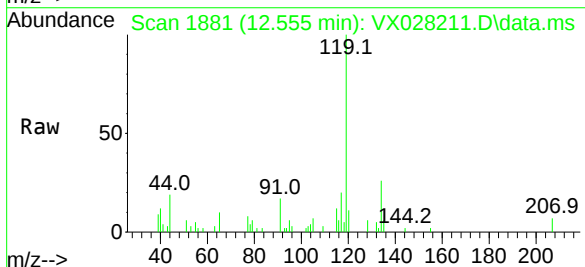
Instrument :
MSVOA_X
ClientSampleId :
31578

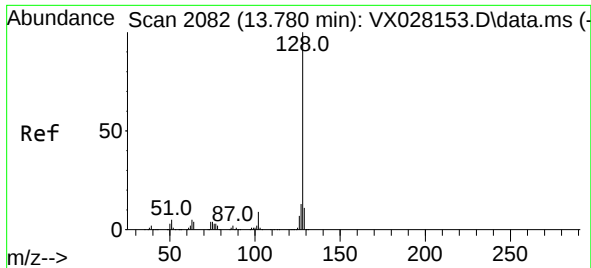
Tgt Ion: 91 Resp: 6490
Ion Ratio Lower Upper
91 100
92 12.8 27.8 83.3#
134 165.1 13.3 39.8#



#90
Hexachloroethane
Concen: 2.056 ug/l
RT: 12.555 min Scan# 1881
Delta R.T. 0.013 min
Lab File: VX028211.D
Acq: 20 Apr 2022 20:27

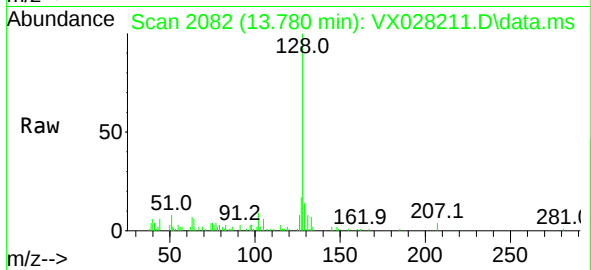
Tgt Ion: 117 Resp: 880
Ion Ratio Lower Upper
117 100
201 0.0 39.5 118.5#





#95
Naphthalene
Concen: 0.503 ug/l
RT: 13.780 min Scan# 20
Delta R.T. -0.000 min
Lab File: VX028211.D
Acq: 20 Apr 2022 20:27

Instrument :
MSVOA_X
ClientSampleId :
31578



Tgt Ion:128 Resp: 10452
Ion Ratio Lower Upper
128 100
127 16.8 10.2 15.4#
129 16.9 8.7 13.1#

