

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX122820\
 Data File : VX020417.D
 Acq On : 28 Dec 2020 16:57
 Operator : JC/MD
 Sample : L5227-04
 Misc : 5.0mL/MSVOA_X/WATER
 ALS Vial : 18 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :

Quant Time: Dec 29 00:41:35 2020
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_X\METHOD\82X121820W.M
 Quant Title : SW846 8260
 QLast Update : Fri Dec 18 13:09:49 2020
 Response via : Initial Calibration

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

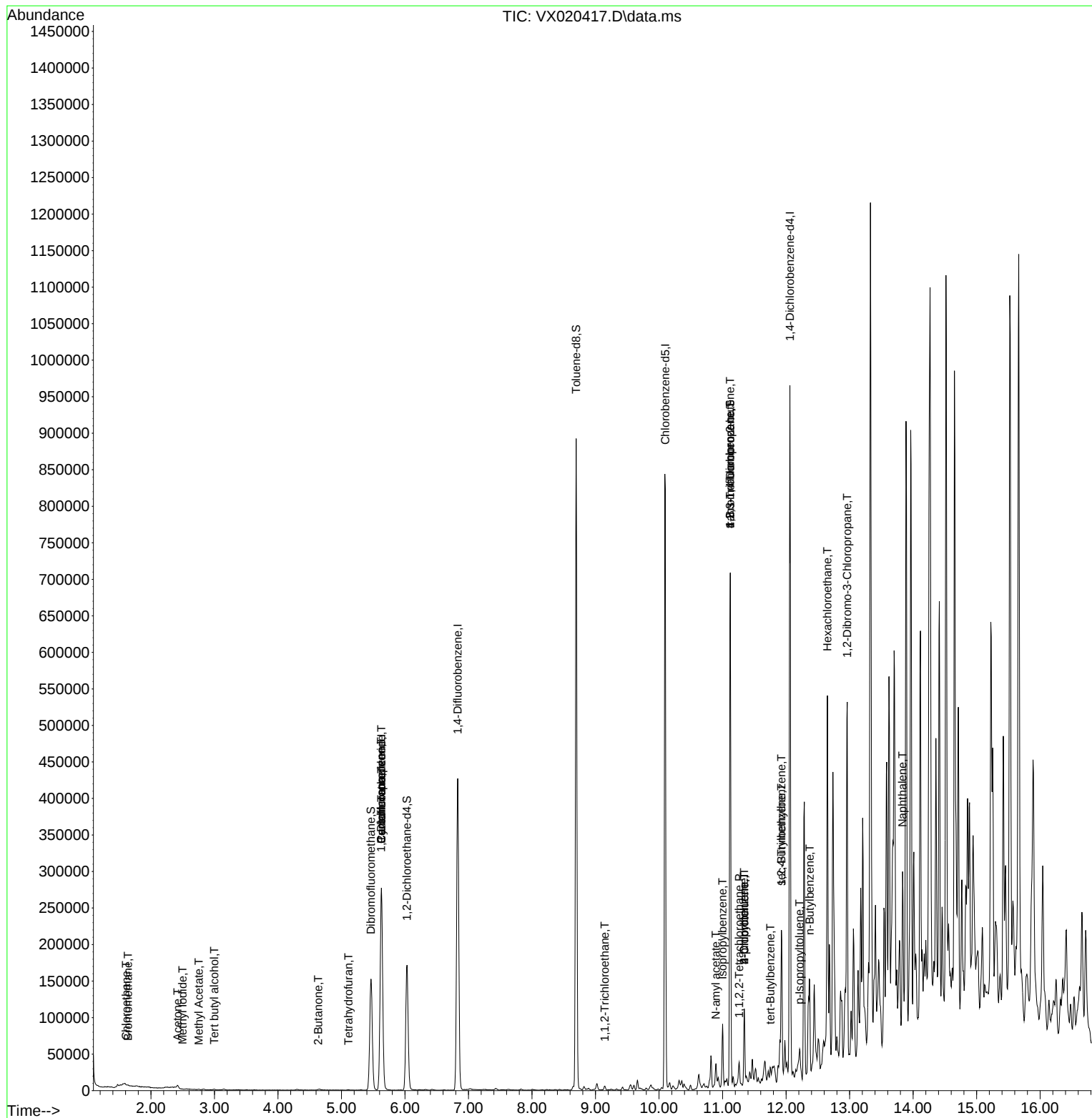
Internal Standards						
1) Pentafluorobenzene	5.629	168	265605	50.00	ug/l	0.01
34) 1,4-Difluorobenzene	6.830	114	435134	50.00	ug/l	0.00
63) Chlorobenzene-d5	10.098	117	402283	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.061	152	190137	50.00	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	6.031	65	163796	46.01	ug/l	0.00
Spiked Amount 50.000	Range 61 - 141		Recovery =	92.02%		
35) Dibromofluoromethane	5.464	113	133883	48.10	ug/l	0.00
Spiked Amount 50.000	Range 69 - 133		Recovery =	96.20%		
50) Toluene-d8	8.695	98	526393	49.13	ug/l	0.00
Spiked Amount 50.000	Range 65 - 126		Recovery =	98.26%		
62) 4-Bromofluorobenzene	11.122	95	201301	49.09	ug/l	0.00
Spiked Amount 50.000	Range 58 - 135		Recovery =	98.18%		
Target Compounds						Qvalue
5) Bromomethane	1.636	94	367	0.31	ug/l	95
6) Chloroethane	1.605	64	1111	0.49	ug/l #	43
10) Methyl Iodide	2.495	142	111	3.31	ug/l #	82
11) Tert butyl alcohol	2.995	59	758	0.95	ug/l #	73
16) Acetone	2.416	43	3875	2.39	ug/l	99
18) Methyl Acetate	2.751	43	768	0.21	ug/l #	71
25) 2-Butanone	4.635	43	486	0.21	ug/l #	76
29) Tetrahydrofuran	5.111	42	482	0.32	ug/l #	57
31) Cyclohexane	5.629	56	4983	1.02	ug/l #	1
36) 1,1-Dichloropropene	5.623	75	20045	4.66	ug/l #	48
38) Carbon Tetrachloride	5.629	117	25882	6.33	ug/l #	17
55) 1,1,2-Trichloroethane	9.147	97	1871	0.56	ug/l #	19
73) Isopropylbenzene	11.000	105	44369	3.23	ug/l	99
74) N-amyl acetate	10.896	43	2305	0.42	ug/l #	1
75) 1,1,2,2-Tetrachloroethane	11.262	83	2097	0.42	ug/l #	36
76) 1,2,3-Trichloropropane	11.122	75	94773	20.24	ug/l #	39
78) n-propylbenzene	11.341	91	64510	4.08	ug/l	98
79) 2-Chlorotoluene	11.341	91	64510	6.54	ug/l #	41
81) trans-1,4-Dichloro-2-b...	11.122	75	94773	60.03	ug/l #	12
82) 4-Chlorotoluene	11.341	91	64510	5.60	ug/l #	45
83) tert-Butylbenzene	11.756	119	4923	0.44	ug/l	78
84) 1,2,4-Trimethylbenzene	11.927	105	91592	7.76	ug/l #	31
85) sec-Butylbenzene	11.927	105	91592	7.11	ug/l	91
86) p-Isopropyltoluene	12.213	119	16776	1.41	ug/l	94
89) n-Butylbenzene	12.372	91	50060	4.81	ug/l	95
90) Hexachloroethane	12.652	117	20724	10.11	ug/l #	9
92) 1,2-Dibromo-3-Chloropr...	12.963	75	1761	1.68	ug/l #	1
95) Naphthalene	13.835	128	4248	0.32	ug/l #	1

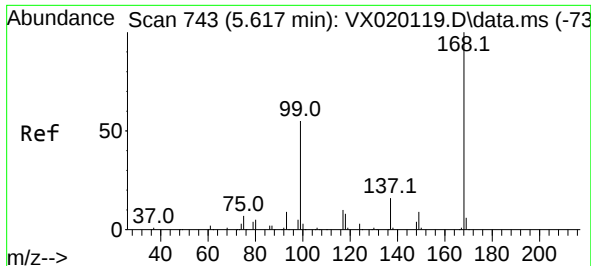
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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MSVOA_X
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Quant Time: Dec 29 00:41:35 2020
Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_X\METHOD\82X121820W.M
Quant Title : SW846 8260
QLast Update : Fri Dec 18 13:09:49 2020
Response via : Initial Calibration

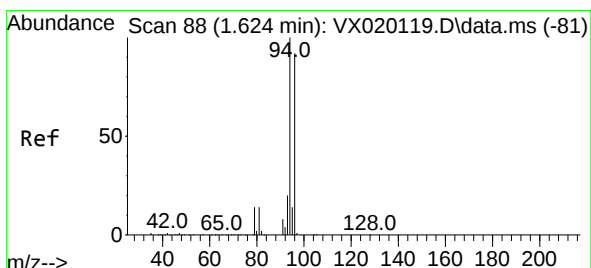
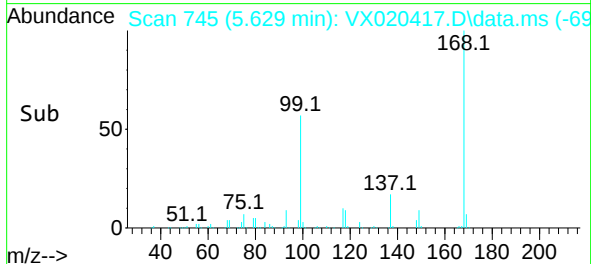
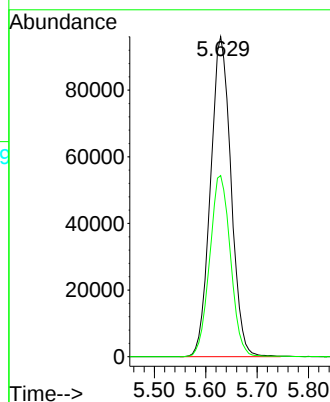
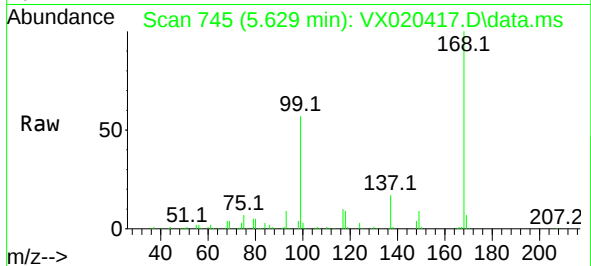




#1
Pentafluorobenzene
Concen: 50.00 ug/l
RT: 5.629 min Scan# 745
Delta R.T. 0.012 min
Lab File: VX020417.D
Acq: 28 Dec 2020 16:57

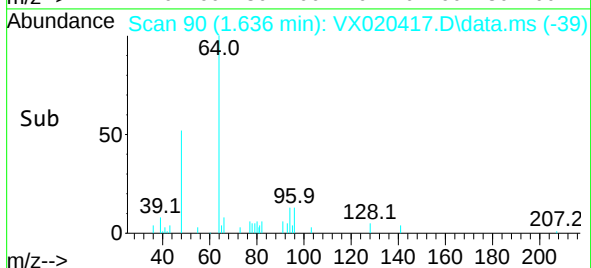
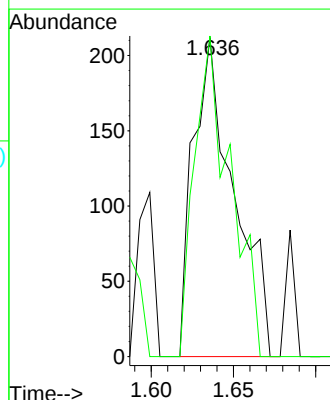
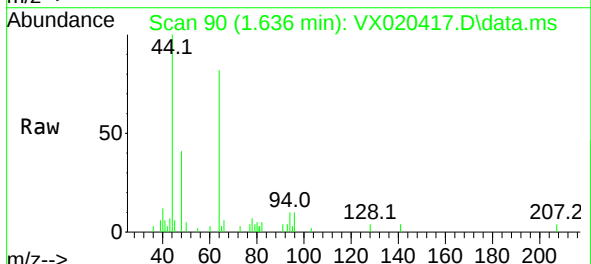
Instrument :
MSVOA_X
ClientSampleId :

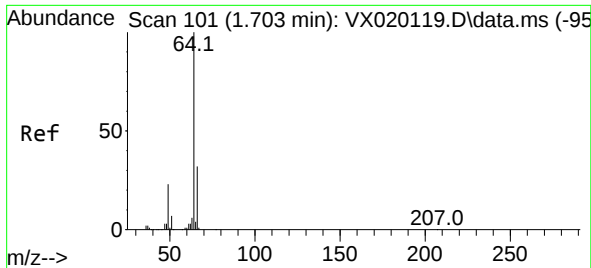
Tgt Ion:168 Resp: 265605
Ion Ratio Lower Upper
168 100
99 56.6 45.8 68.6



#5
Bromomethane
Concen: 0.31 ug/l
RT: 1.636 min Scan# 90
Delta R.T. 0.012 min
Lab File: VX020417.D
Acq: 28 Dec 2020 16:57

Tgt Ion: 94 Resp: 367
Ion Ratio Lower Upper
94 100
96 100.5 76.4 114.6

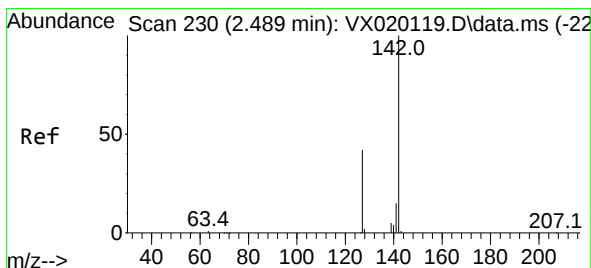
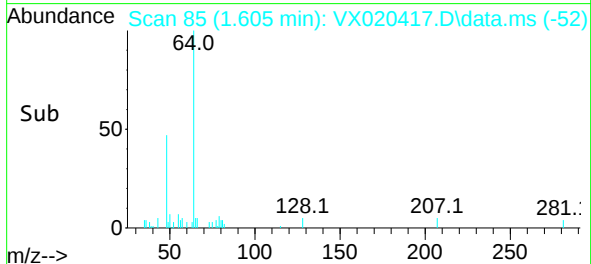
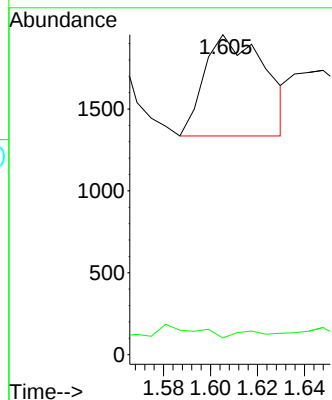
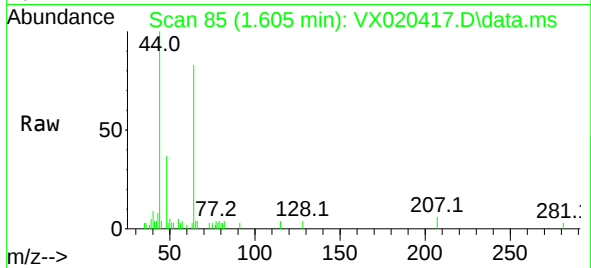




#6
Chloroethane
Concen: 0.49 ug/l
RT: 1.605 min Scan# 85
Delta R.T. -0.098 min
Lab File: VX020417.D
Acq: 28 Dec 2020 16:57

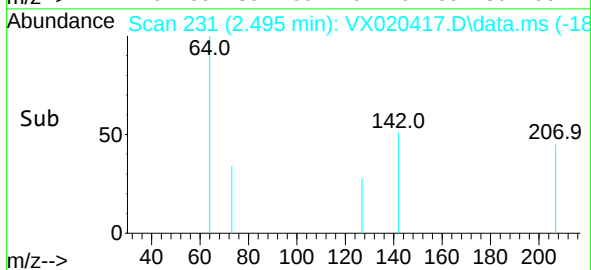
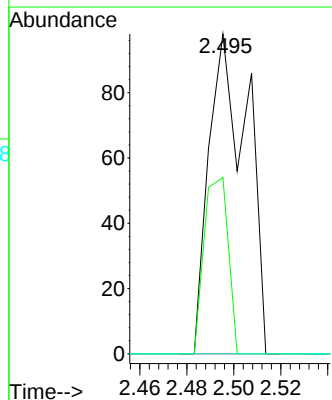
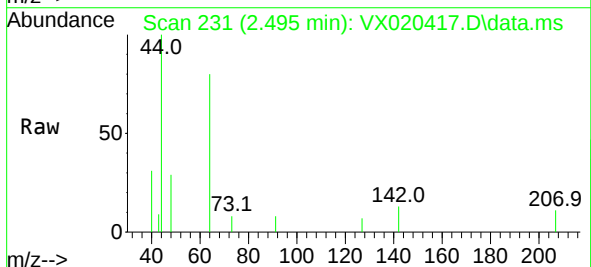
Instrument :
MSVOA_X
ClientSampled :

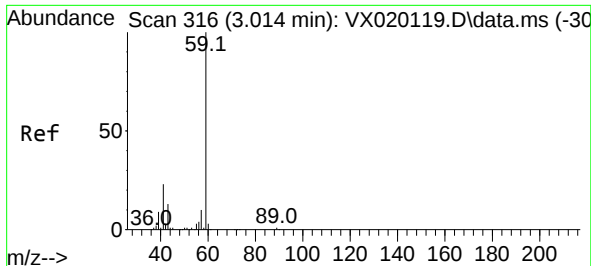
Tgt Ion: 64 Resp: 1111
Ion Ratio Lower Upper
64 100
66 0.0 25.4 38.0#



#10
Methyl Iodide
Concen: 3.31 ug/l
RT: 2.495 min Scan# 231
Delta R.T. 0.006 min
Lab File: VX020417.D
Acq: 28 Dec 2020 16:57

Tgt Ion: 142 Resp: 111
Ion Ratio Lower Upper
142 100
127 34.2 33.3 49.9
141 0.0 11.4 17.0#



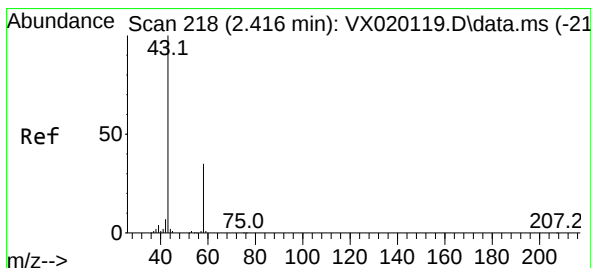
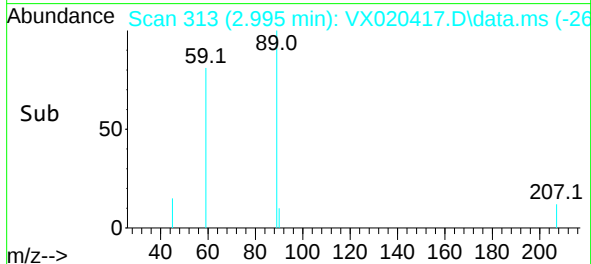
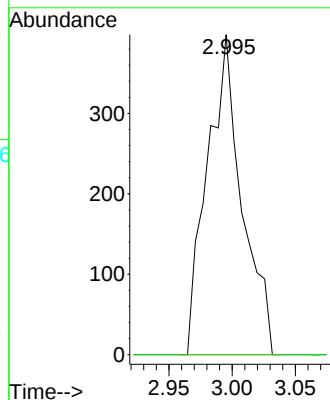
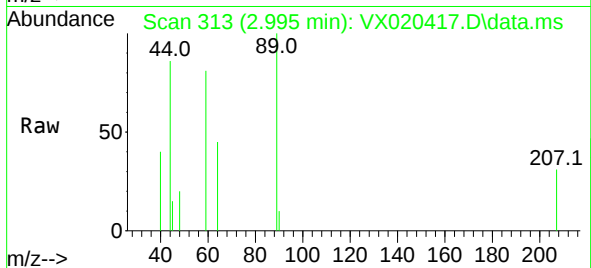


#11

Tert butyl alcohol
Concen: 0.95 ug/l
RT: 2.995 min Scan# 313
Delta R.T. -0.019 min
Lab File: VX020417.D
Acq: 28 Dec 2020 16:57

Instrument :
MSVOA_X
ClientSampleId :

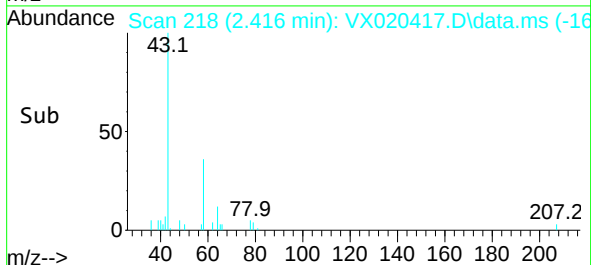
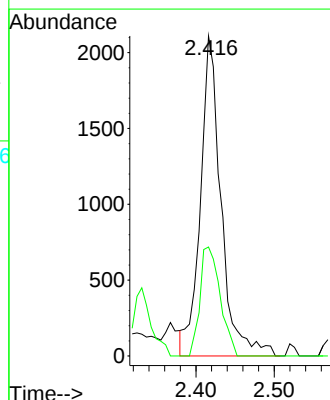
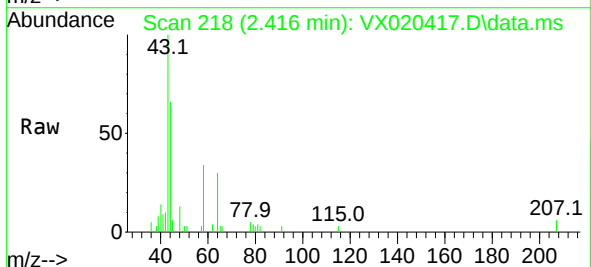
Tgt Ion: 59 Resp: 758
Ion Ratio Lower Upper
59 100
57 0.0 7.8 11.8#

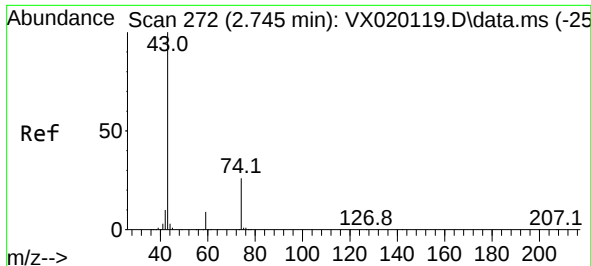


#16

Acetone
Concen: 2.39 ug/l
RT: 2.416 min Scan# 218
Delta R.T. 0.000 min
Lab File: VX020417.D
Acq: 28 Dec 2020 16:57

Tgt Ion: 43 Resp: 3875
Ion Ratio Lower Upper
43 100
58 34.1 27.8 41.8





#18

Methyl Acetate

Concen: 0.21 ug/l

RT: 2.751 min Scan# 273

Delta R.T. 0.006 min

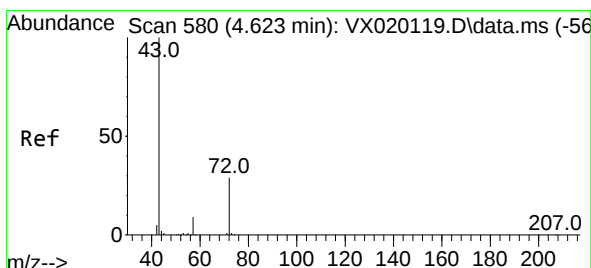
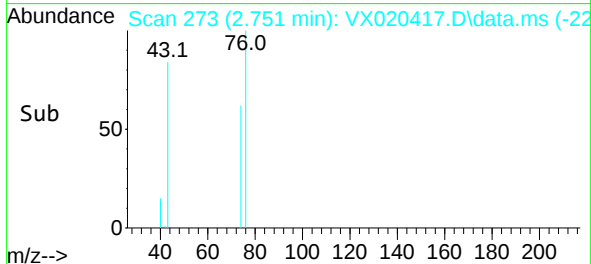
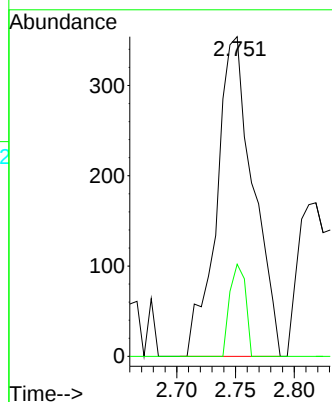
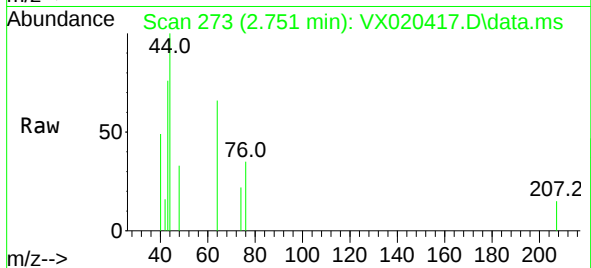
Lab File: VX020417.D

Acq: 28 Dec 2020 16:57

Tgt Ion: 43 Resp: 768

Ion Ratio Lower Upper

43 100
74 12.4 21.9 32.9#



#25

2-Butanone

Concen: 0.21 ug/l

RT: 4.635 min Scan# 582

Delta R.T. 0.012 min

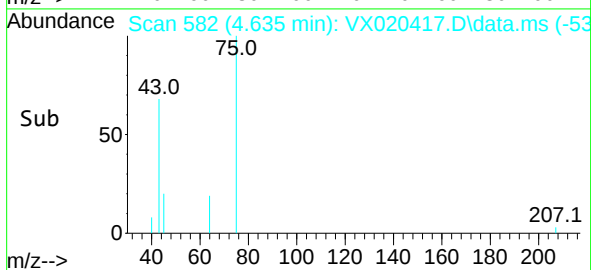
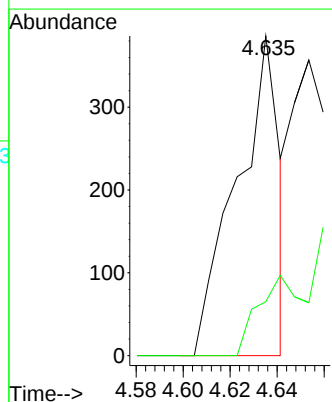
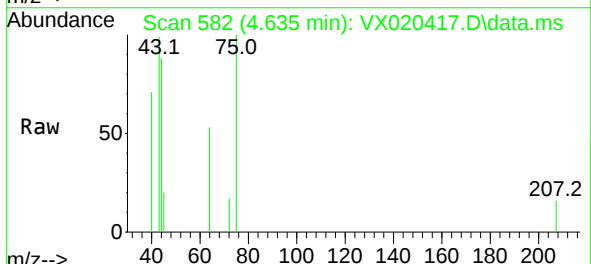
Lab File: VX020417.D

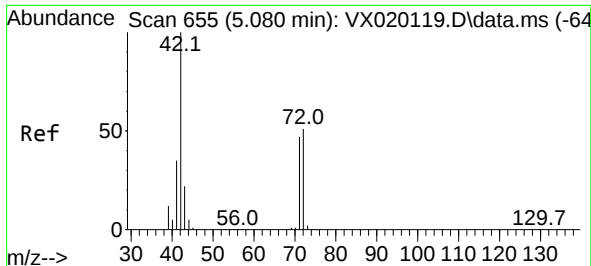
Acq: 28 Dec 2020 16:57

Tgt Ion: 43 Resp: 486

Ion Ratio Lower Upper

43 100
72 16.8 23.7 35.5#





#29

Tetrahydrofuran

Concen: 0.32 ug/l

RT: 5.111 min Scan# 660

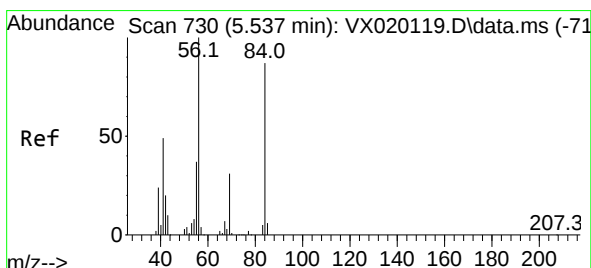
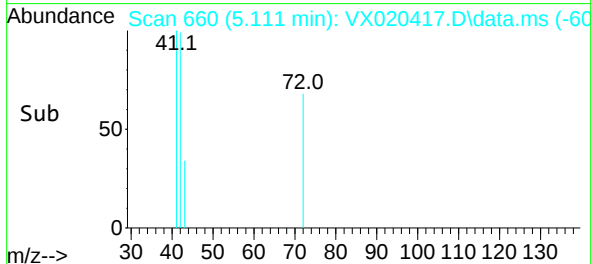
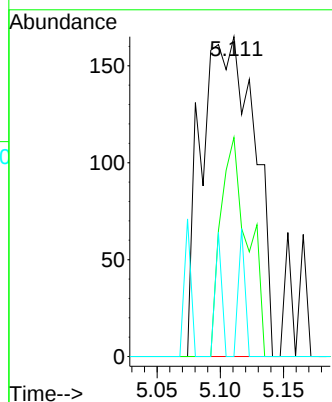
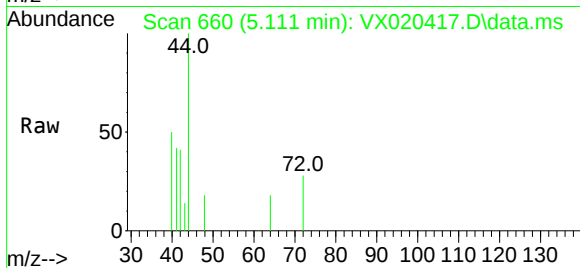
Delta R.T. 0.031 min

Lab File: VX020417.D

Acq: 28 Dec 2020 16:57

Tgt Ion:	42	Resp:	482
Ion	Ratio	Lower	Upper
42	100		
72	35.1	41.7	62.5#
71	5.0	38.4	57.6#

Instrument :
MSVOA_X
ClientSampled :



#31

Cyclohexane

Concen: 1.02 ug/l

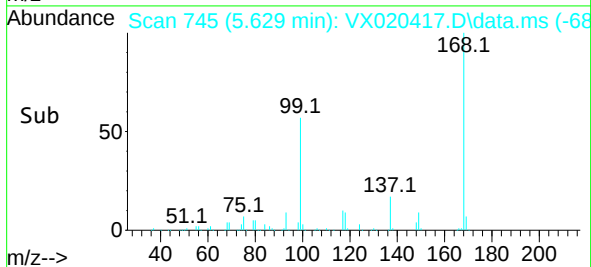
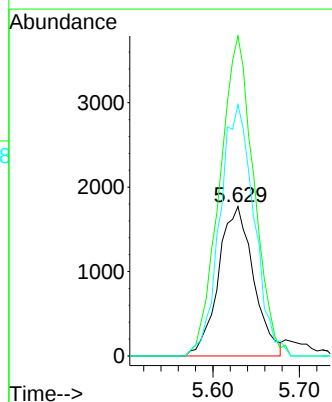
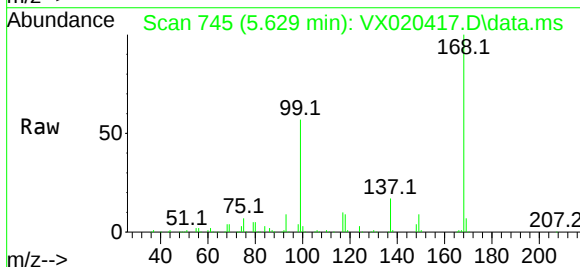
RT: 5.629 min Scan# 745

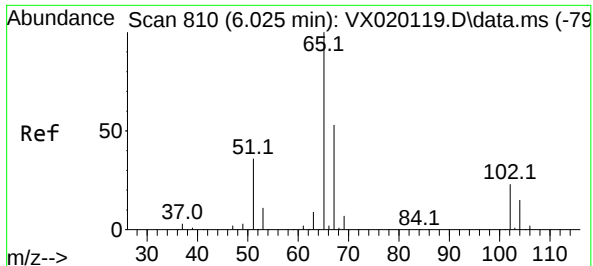
Delta R.T. 0.092 min

Lab File: VX020417.D

Acq: 28 Dec 2020 16:57

Tgt Ion:	56	Resp:	4983
Ion	Ratio	Lower	Upper
56	100		
69	214.1	25.3	37.9#
84	168.0	71.4	107.0#





#33

1,2-Dichloroethane-d4

Concen: 46.01 ug/l

RT: 6.031 min Scan# 811

Delta R.T. 0.006 min

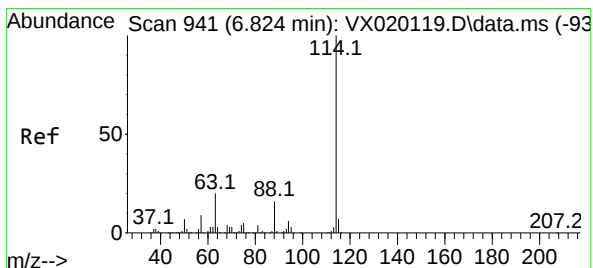
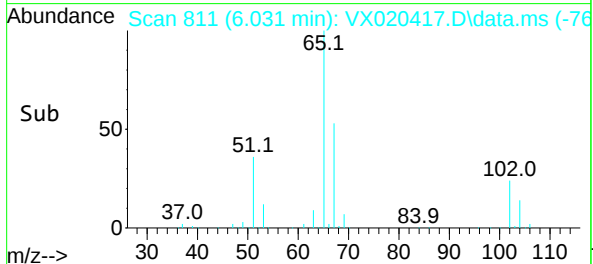
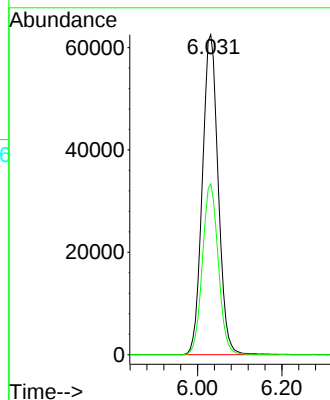
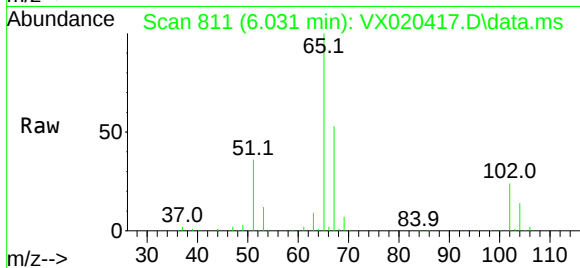
Lab File: VX020417.D

Acq: 28 Dec 2020 16:57

Tgt Ion: 65 Resp: 163796

Ion Ratio Lower Upper

65	100		
67	53.3	0.0	105.4



#34

1,4-Difluorobenzene

Concen: 50.00 ug/l

RT: 6.830 min Scan# 942

Delta R.T. 0.006 min

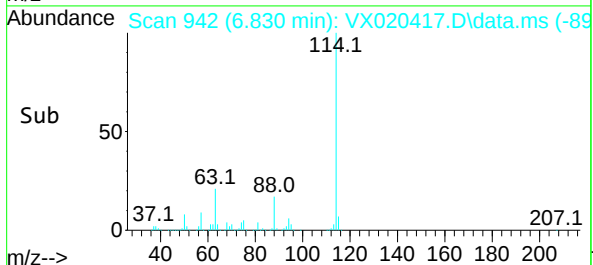
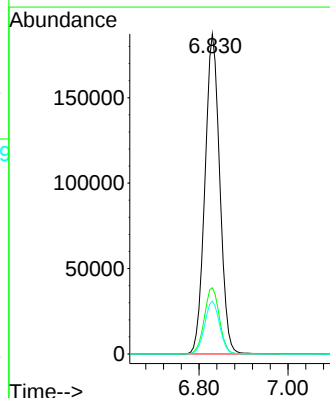
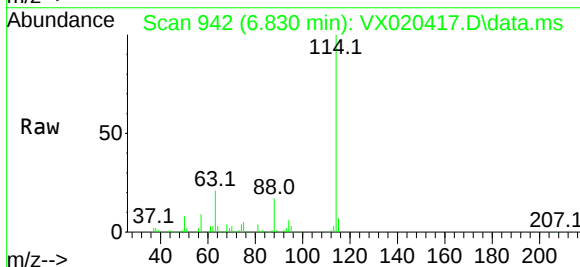
Lab File: VX020417.D

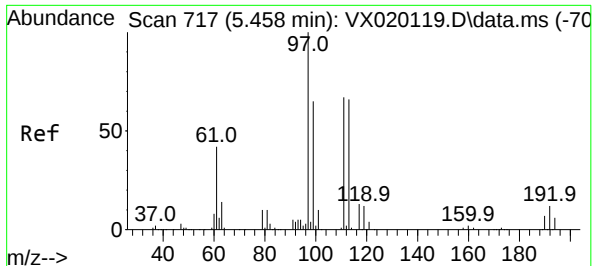
Acq: 28 Dec 2020 16:57

Tgt Ion: 114 Resp: 435134

Ion Ratio Lower Upper

114	100		
63	20.7	0.0	40.8
88	16.5	0.0	32.8

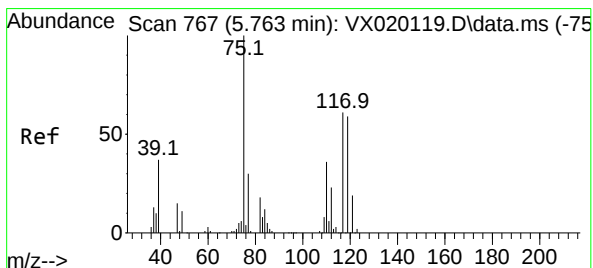
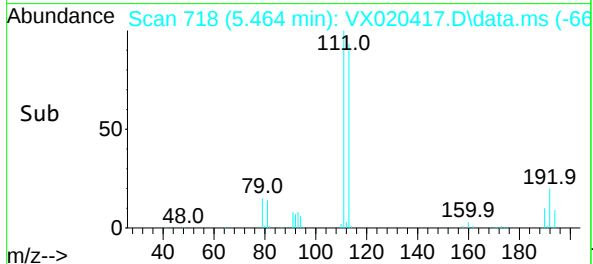
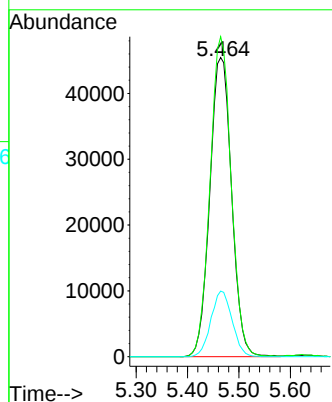
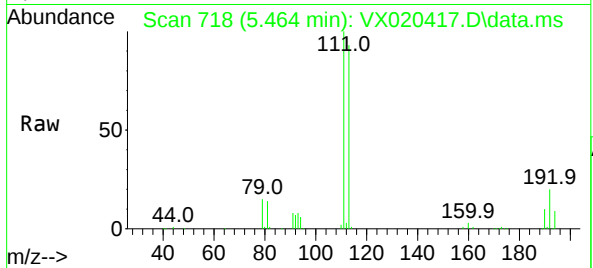




#35
Dibromofluoromethane
Concen: 48.10 ug/l
RT: 5.464 min Scan# 718
Delta R.T. 0.006 min
Lab File: VX020417.D
Acq: 28 Dec 2020 16:57

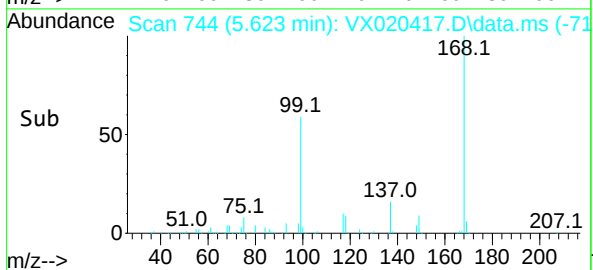
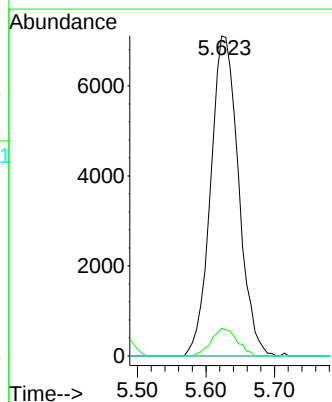
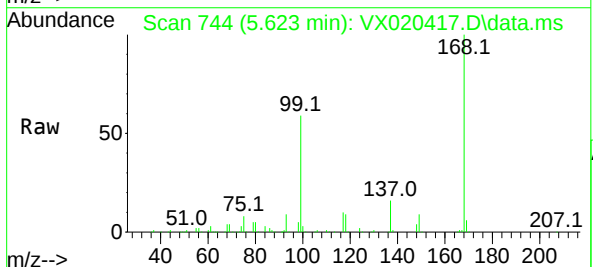
Instrument :
MSVOA_X
ClientSampleId :

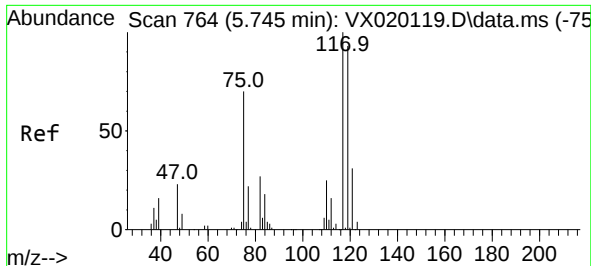
Tgt Ion:113 Resp: 133883
Ion Ratio Lower Upper
113 100
111 103.9 81.9 122.9
192 21.3 16.7 25.1



#36
1,1-Dichloropropene
Concen: 4.66 ug/l
RT: 5.623 min Scan# 744
Delta R.T. -0.140 min
Lab File: VX020417.D
Acq: 28 Dec 2020 16:57

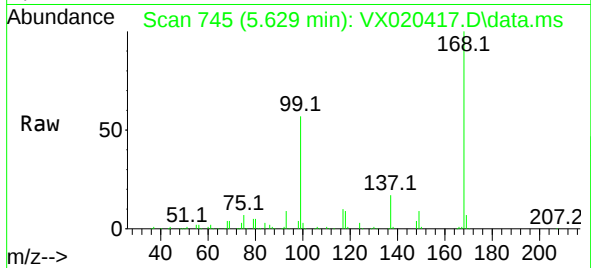
Tgt Ion: 75 Resp: 20045
Ion Ratio Lower Upper
75 100
110 8.0 18.1 54.4#
77 0.0 25.3 37.9#



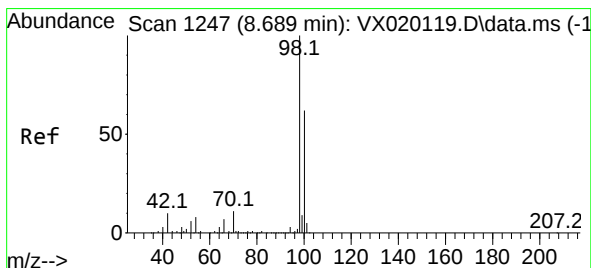
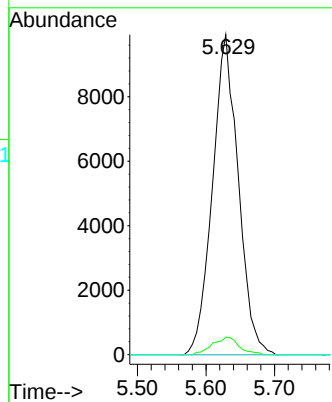
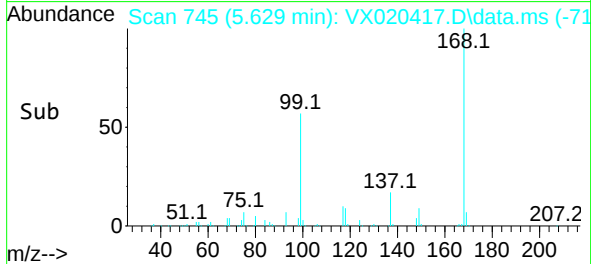


#38
Carbon Tetrachloride
Concen: 6.33 ug/l
RT: 5.629 min Scan# 745
Delta R.T. -0.116 min
Lab File: VX020417.D
Acq: 28 Dec 2020 16:57

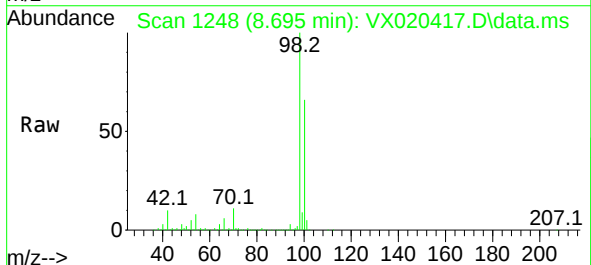
Instrument :
MSVOA_X
ClientSampleId :



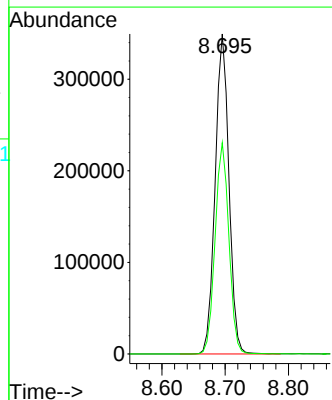
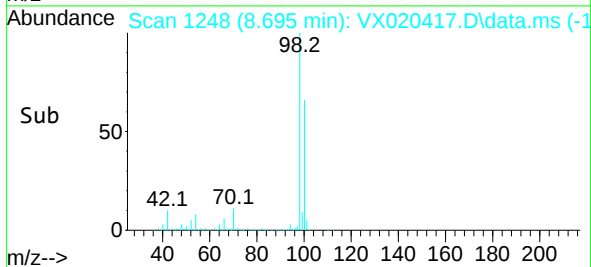
Tgt Ion:117 Resp: 25882
Ion Ratio Lower Upper
117 100
119 5.5 76.2 114.2#
121 0.0 24.8 37.2#

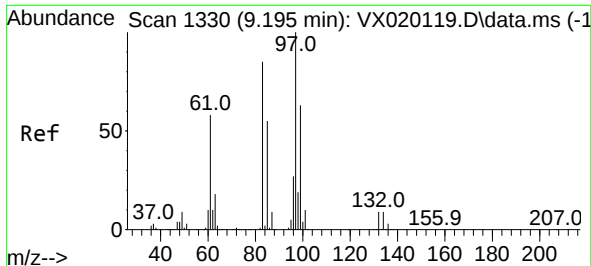


#50
Toluene-d8
Concen: 49.13 ug/l
RT: 8.695 min Scan# 1248
Delta R.T. 0.006 min
Lab File: VX020417.D
Acq: 28 Dec 2020 16:57



Tgt Ion: 98 Resp: 526393
Ion Ratio Lower Upper
98 100
100 66.3 51.9 77.9

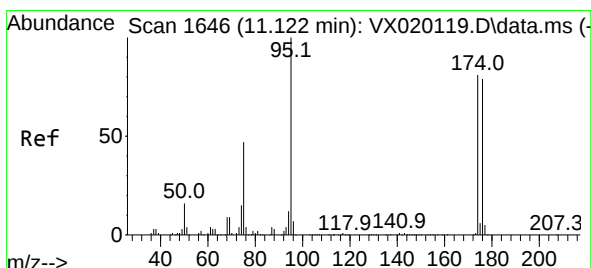
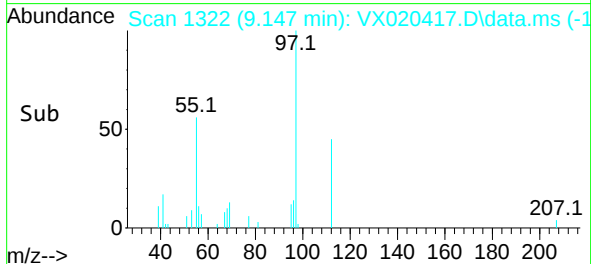
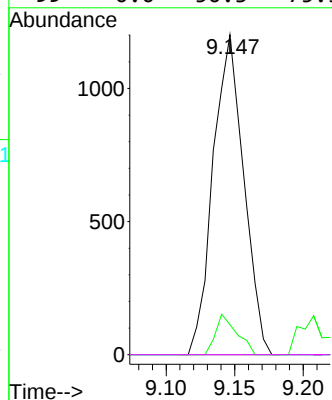
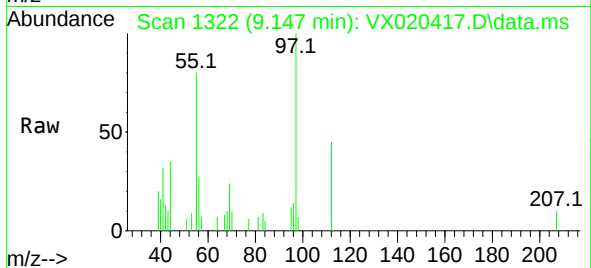




#55
1,1,2-Trichloroethane
Concen: 0.56 ug/l
RT: 9.147 min Scan# 1322
Delta R.T. -0.048 min
Lab File: VX020417.D
Acq: 28 Dec 2020 16:57

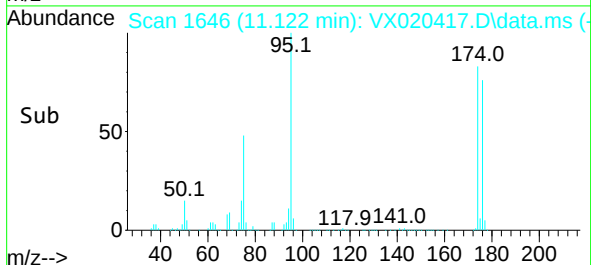
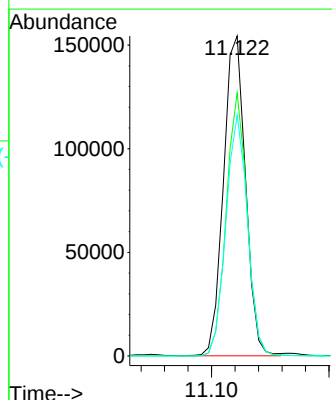
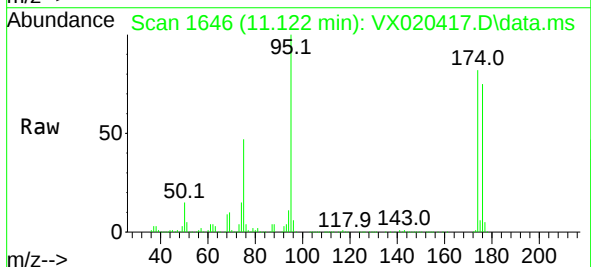
Instrument :
MSVOA_X
ClientSampleId :

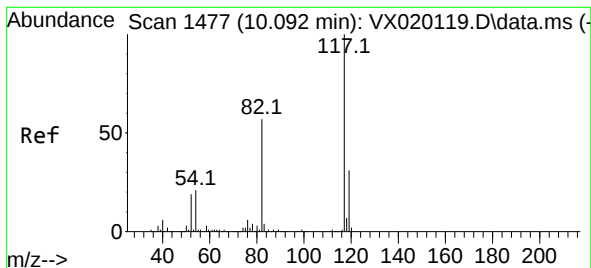
Tgt Ion: 97	Resp: 1871
Ion Ratio	Lower Upper
97 100	
83 9.4	69.3 103.9#
85 0.0	44.3 66.5#
99 0.0	50.3 75.5#



#62
4-Bromofluorobenzene
Concen: 49.09 ug/l
RT: 11.122 min Scan# 1646
Delta R.T. -0.000 min
Lab File: VX020417.D
Acq: 28 Dec 2020 16:57

Tgt Ion: 95	Resp: 201301
Ion Ratio	Lower Upper
95 100	
174 78.1	0.0 154.6
176 73.6	0.0 155.8

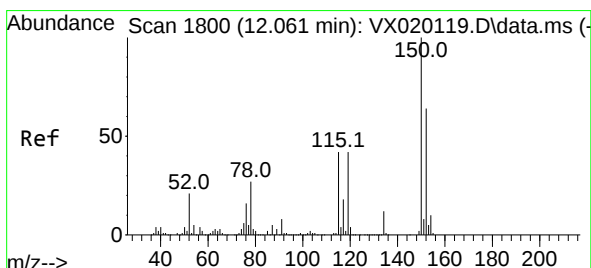
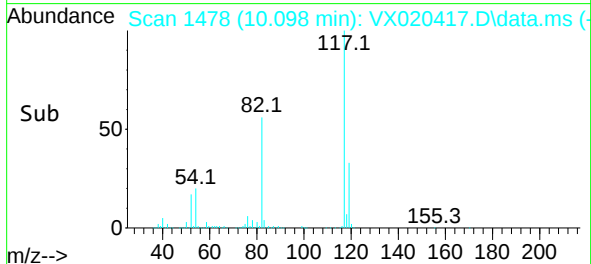
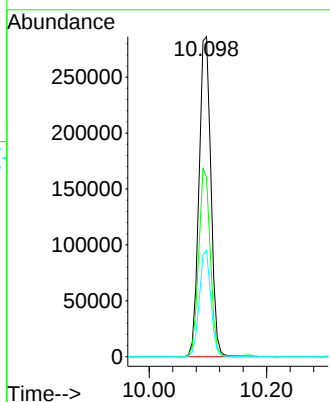
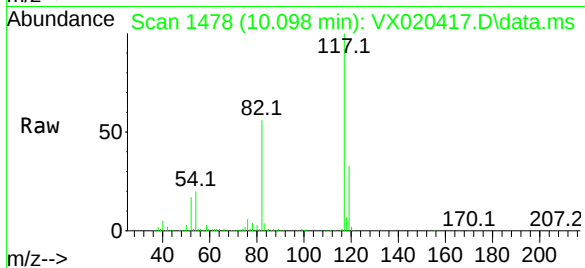




#63
Chlorobenzene-d5
Concen: 50.00 ug/l
RT: 10.098 min Scan# 1478
Delta R.T. 0.006 min
Lab File: VX020417.D
Acq: 28 Dec 2020 16:57

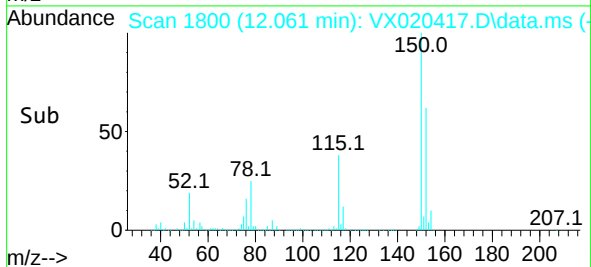
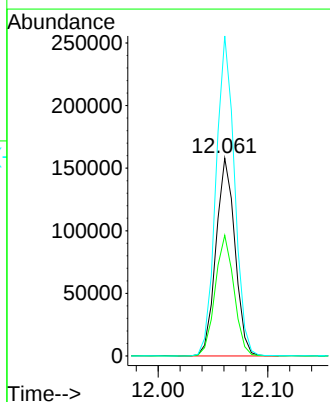
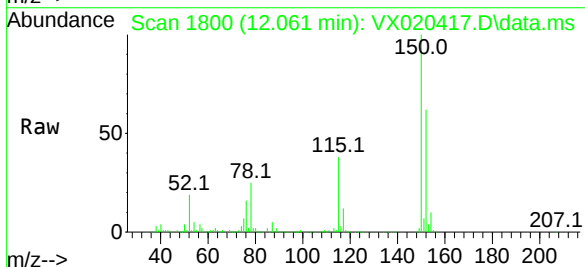
Instrument :
MSVOA_X
ClientSampleId :

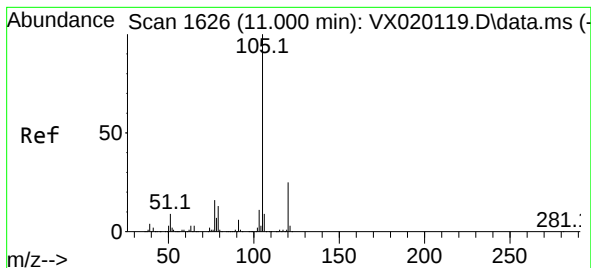
Tgt Ion:117 Resp: 402283
Ion Ratio Lower Upper
117 100
82 56.0 47.4 71.2
119 33.2 26.6 39.8



#72
1,4-Dichlorobenzene-d4
Concen: 50.00 ug/l
RT: 12.061 min Scan# 1800
Delta R.T. -0.000 min
Lab File: VX020417.D
Acq: 28 Dec 2020 16:57

Tgt Ion:152 Resp: 190137
Ion Ratio Lower Upper
152 100
115 60.7 41.1 123.3
150 158.7 0.0 349.0

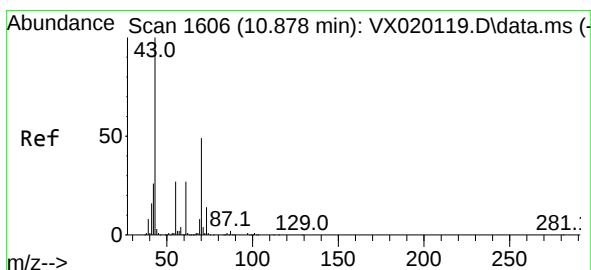
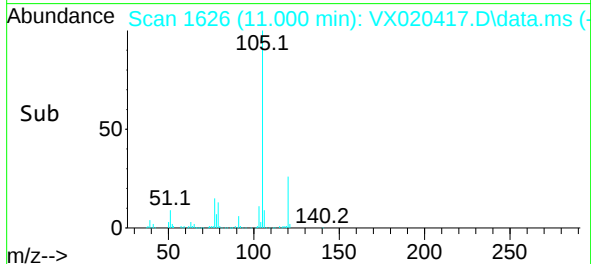
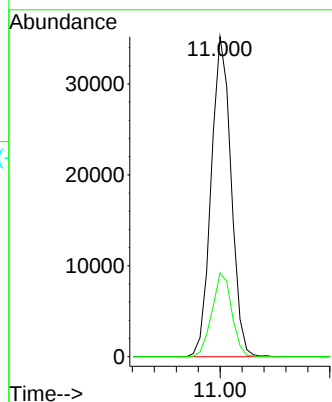
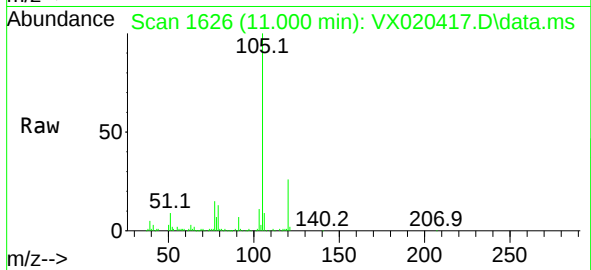




#73
Isopropylbenzene
Concen: 3.23 ug/l
RT: 11.000 min Scan# 1626
Delta R.T. -0.000 min
Lab File: VX020417.D
Acq: 28 Dec 2020 16:57

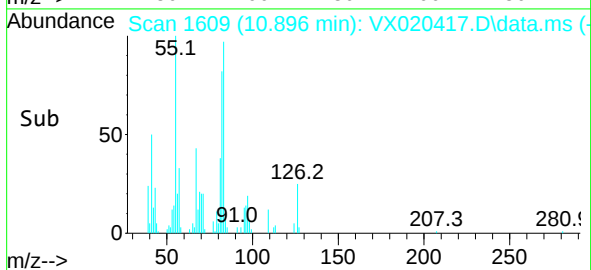
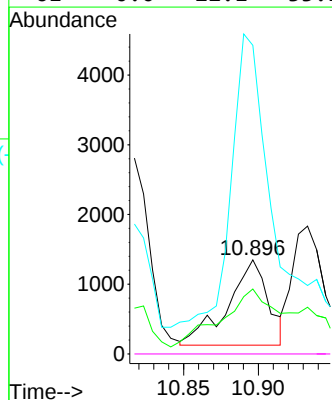
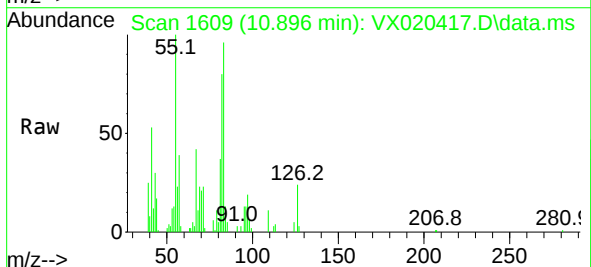
Instrument :
MSVOA_X
ClientSampleId :

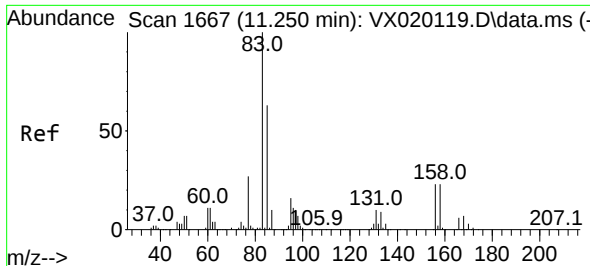
Tgt Ion:105 Resp: 44369
Ion Ratio Lower Upper
105 100
120 26.0 13.2 39.6



#74
N-ethyl acetate
Concen: 0.42 ug/l
RT: 10.896 min Scan# 1609
Delta R.T. 0.018 min
Lab File: VX020417.D
Acq: 28 Dec 2020 16:57

Tgt Ion: 43 Resp: 2305
Ion Ratio Lower Upper
43 100
70 101.0 39.0 58.6#
55 358.0 21.5 32.3#
61 0.0 22.1 33.1#

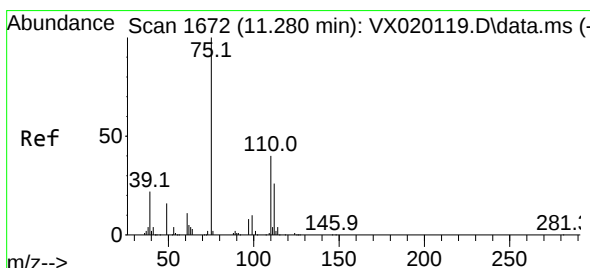
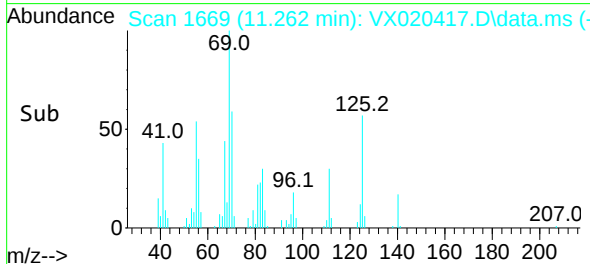
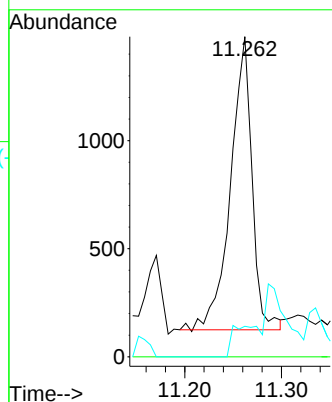
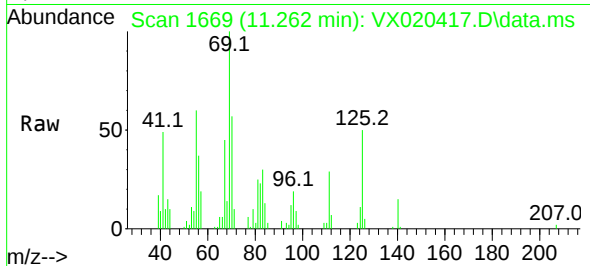




#75
1,1,2,2-Tetrachloroethane
Concen: 0.42 ug/l
RT: 11.262 min Scan# 1669
Delta R.T. 0.012 min
Lab File: VX020417.D
Acq: 28 Dec 2020 16:57

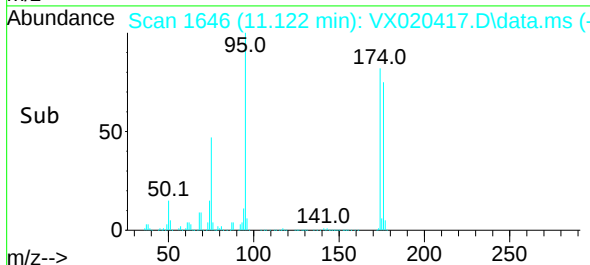
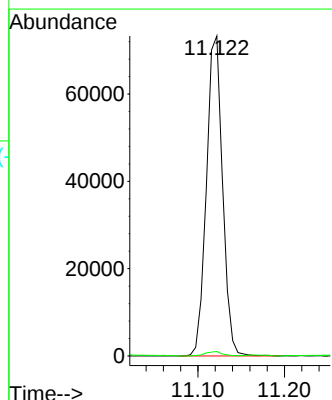
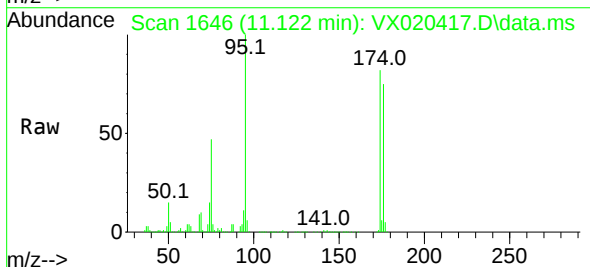
Instrument :
MSVOA_X
ClientSampleId :

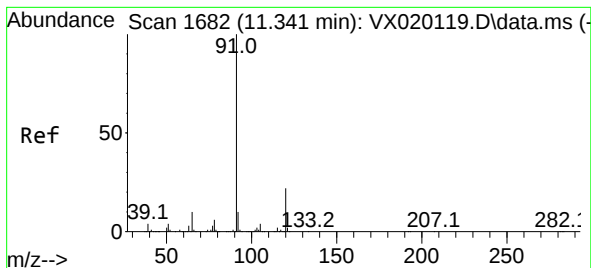
Tgt Ion: 83 Resp: 2097
Ion Ratio Lower Upper
83 100
131 0.0 5.1 15.2#
85 9.6 31.8 95.4#



#76
1,2,3-Trichloropropane
Concen: 20.24 ug/l
RT: 11.122 min Scan# 1646
Delta R.T. -0.158 min
Lab File: VX020417.D
Acq: 28 Dec 2020 16:57

Tgt Ion: 75 Resp: 94773
Ion Ratio Lower Upper
75 100
77 1.5 19.1 57.5#

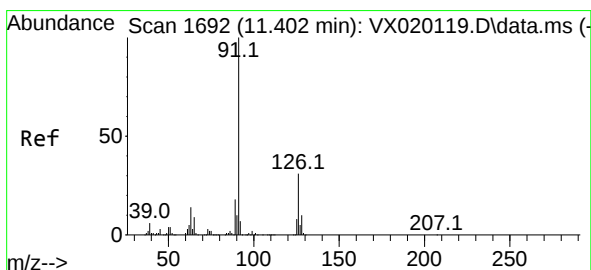
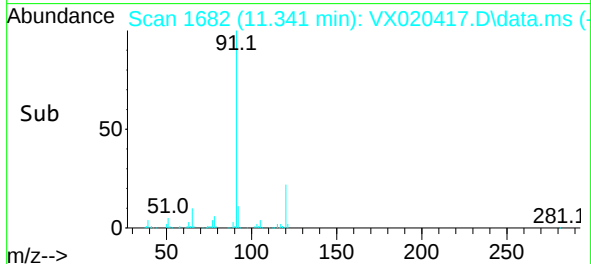
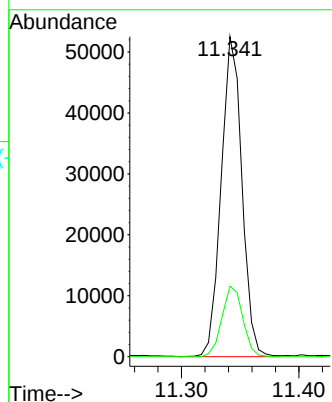
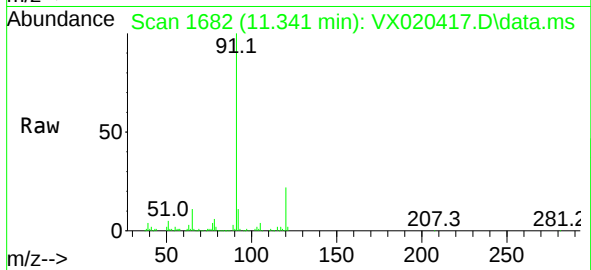




#78
n-propylbenzene
Concen: 4.08 ug/l
RT: 11.341 min Scan# 1682
Delta R.T. 0.000 min
Lab File: VX020417.D
Acq: 28 Dec 2020 16:57

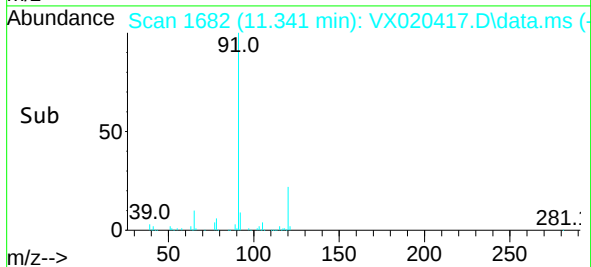
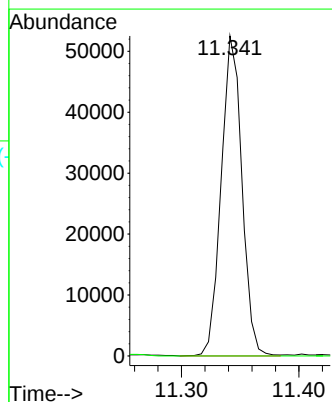
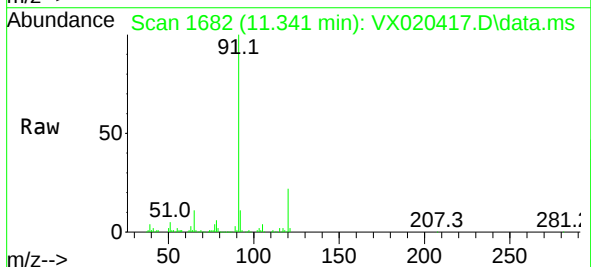
Instrument :
MSVOA_X
ClientSampled :

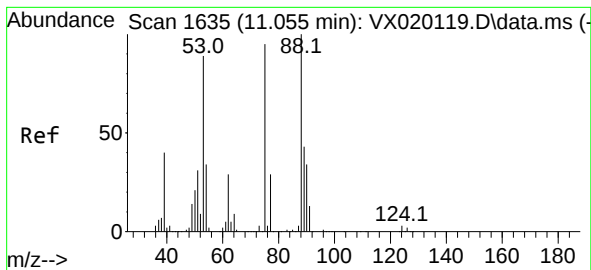
Tgt Ion: 91 Resp: 64510
Ion Ratio Lower Upper
91 100
120 22.0 11.5 34.5



#79
2-Chlorotoluene
Concen: 6.54 ug/l
RT: 11.341 min Scan# 1682
Delta R.T. -0.061 min
Lab File: VX020417.D
Acq: 28 Dec 2020 16:57

Tgt Ion: 91 Resp: 64510
Ion Ratio Lower Upper
91 100
126 0.0 16.6 49.8#

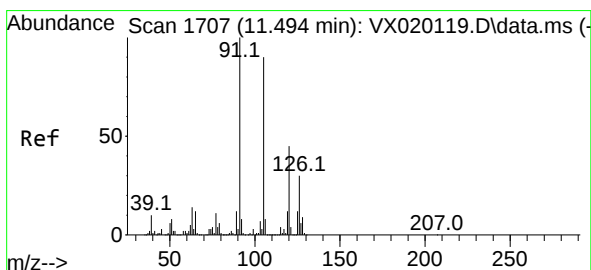
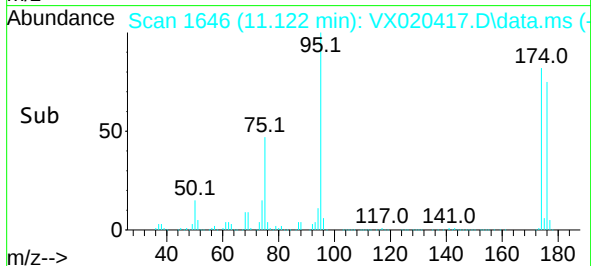
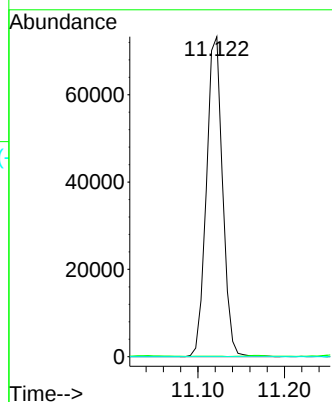
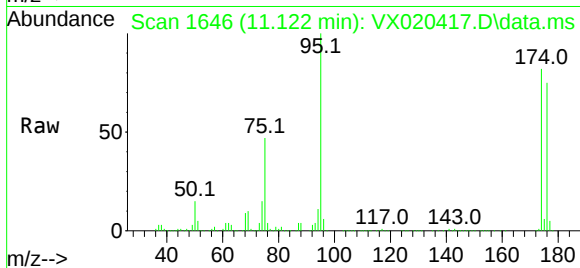




#81
trans-1,4-Dichloro-2-butene
Concen: 60.03 ug/l
RT: 11.122 min Scan# 1646
Delta R.T. 0.067 min
Lab File: VX020417.D
Acq: 28 Dec 2020 16:57

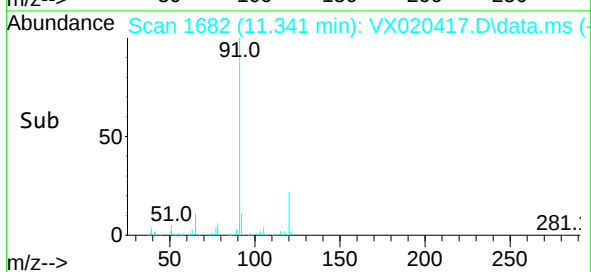
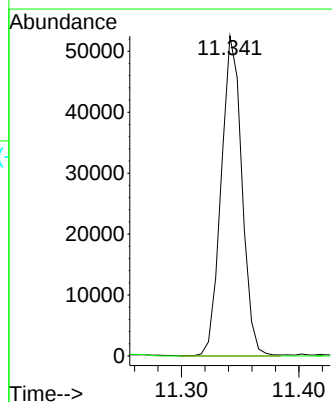
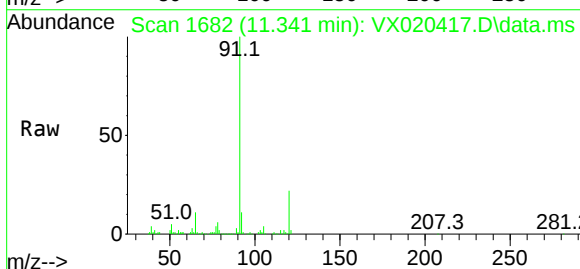
Instrument :
MSVOA_X
ClientSampleId :

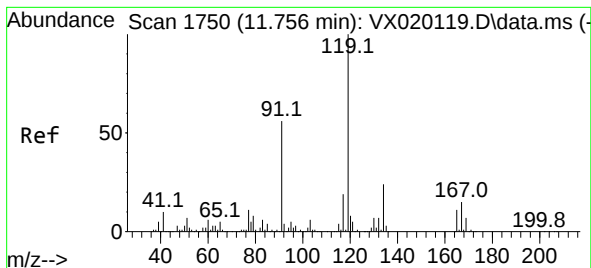
Tgt Ion: 75 Resp: 94773
Ion Ratio Lower Upper
75 100
53 0.1 74.5 111.7#
89 0.0 37.9 56.9#



#82
4-Chlorotoluene
Concen: 5.60 ug/l
RT: 11.341 min Scan# 1682
Delta R.T. -0.153 min
Lab File: VX020417.D
Acq: 28 Dec 2020 16:57

Tgt Ion: 91 Resp: 64510
Ion Ratio Lower Upper
91 100
126 0.0 14.9 44.5#

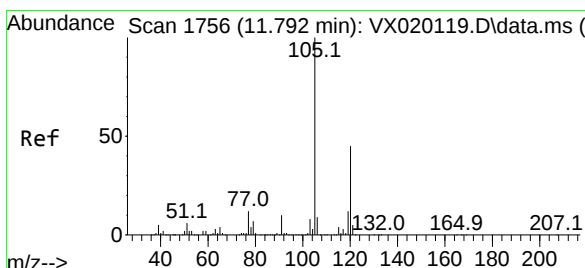
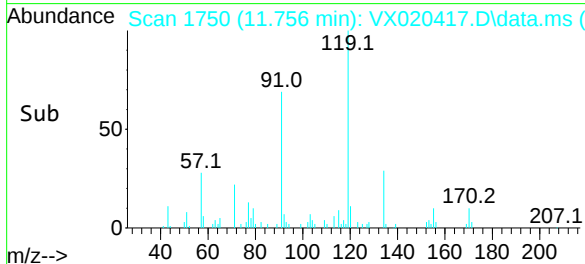
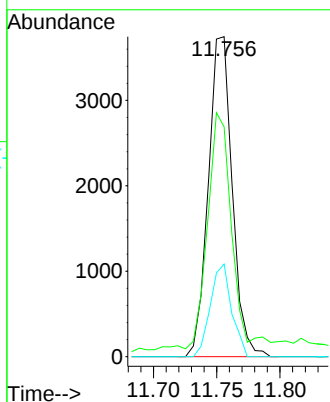
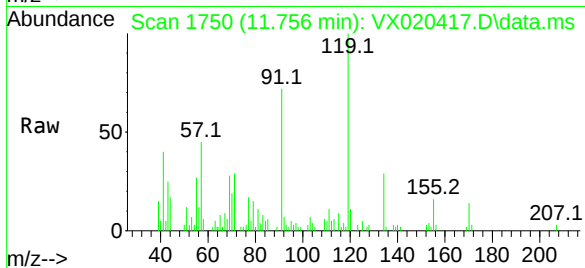




#83
tert-Butylbenzene
Concen: 0.44 ug/l
RT: 11.756 min Scan# 1750
Delta R.T. -0.000 min
Lab File: VX020417.D
Acq: 28 Dec 2020 16:57

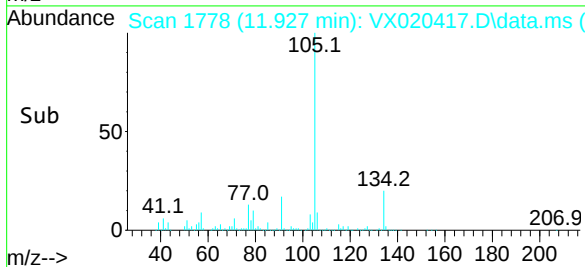
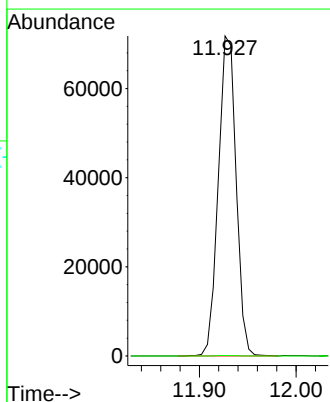
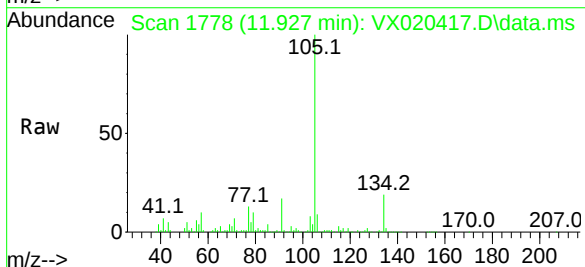
Instrument :
MSVOA_X
ClientSampleId :

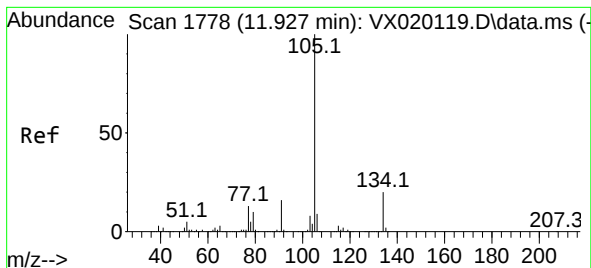
Tgt Ion:	119	Resp:	4923
Ion	Ratio	Lower	Upper
119	100		
91	76.1	27.9	83.7
134	25.7	11.3	33.9



#84
1,2,4-Trimethylbenzene
Concen: 7.76 ug/l
RT: 11.927 min Scan# 1778
Delta R.T. 0.135 min
Lab File: VX020417.D
Acq: 28 Dec 2020 16:57

Tgt Ion:	105	Resp:	91592
Ion	Ratio	Lower	Upper
105	100		
120	0.1	22.4	67.3#

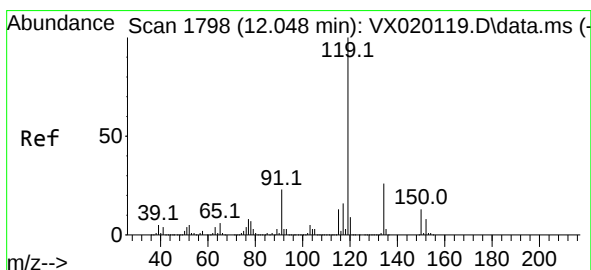
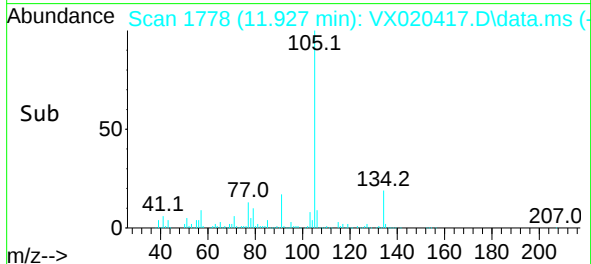
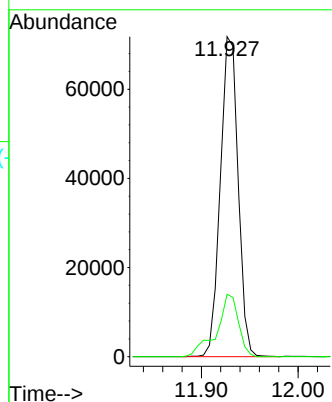
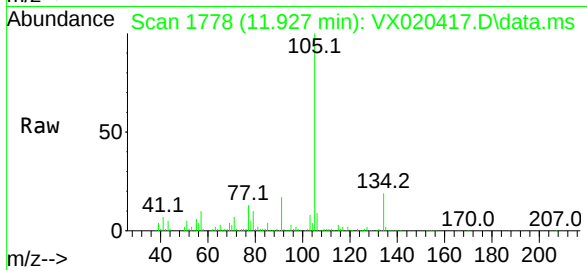




#85
 sec-Butylbenzene
 Concen: 7.11 ug/l
 RT: 11.927 min Scan# 1778
 Delta R.T. -0.000 min
 Lab File: VX020417.D
 Acq: 28 Dec 2020 16:57

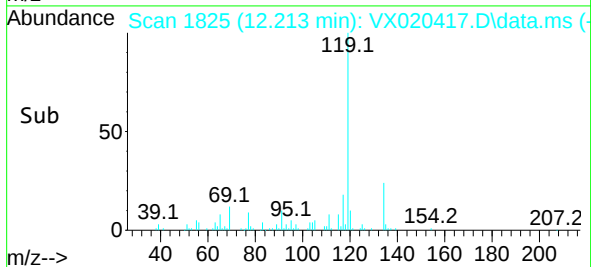
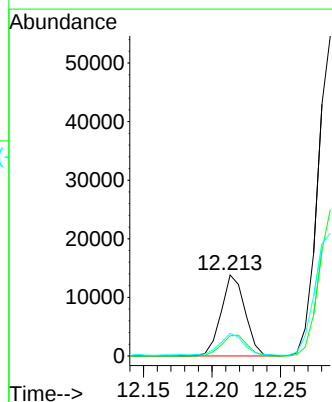
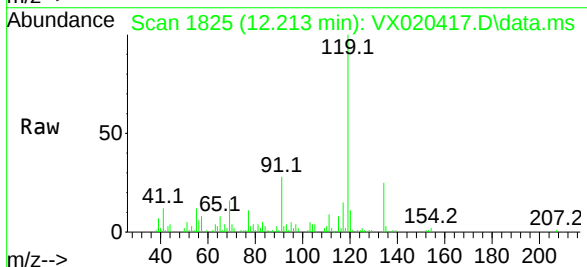
Instrument :
 MSVOA_X
 ClientSampleId :

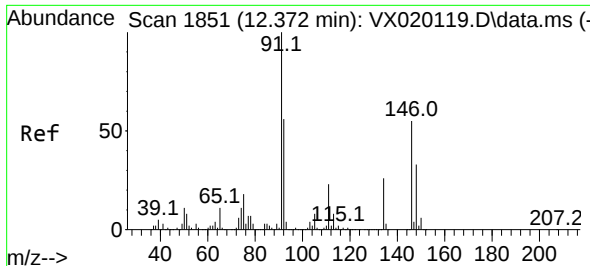
Tgt Ion:105 Resp: 91592
 Ion Ratio Lower Upper
 105 100
 134 23.9 10.0 29.8



#86
 p-Isopropyltoluene
 Concen: 1.41 ug/l
 RT: 12.213 min Scan# 1825
 Delta R.T. 0.165 min
 Lab File: VX020417.D
 Acq: 28 Dec 2020 16:57

Tgt Ion:119 Resp: 16776
 Ion Ratio Lower Upper
 119 100
 134 27.2 12.9 38.7
 91 28.0 11.7 35.0

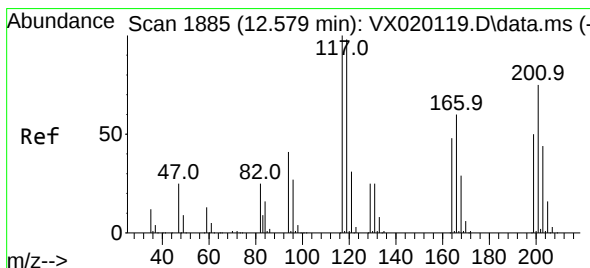
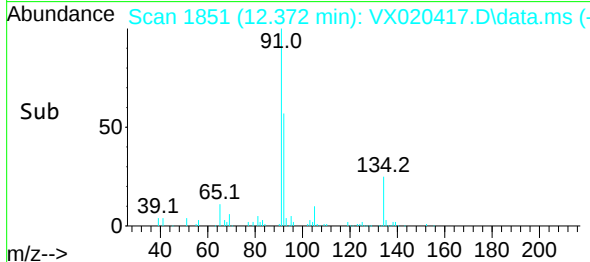
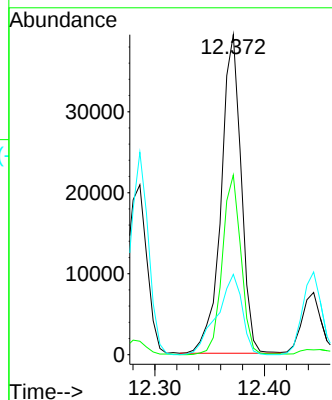
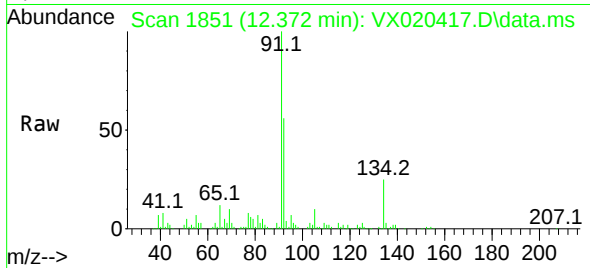




#89
n-Butylbenzene
Concen: 4.81 ug/l
RT: 12.372 min Scan# 1851
Delta R.T. -0.000 min
Lab File: VX020417.D
Acq: 28 Dec 2020 16:57

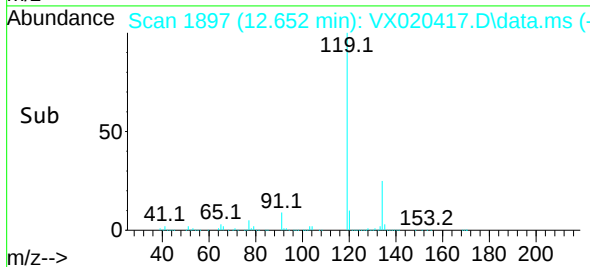
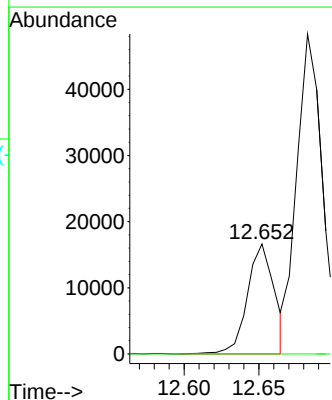
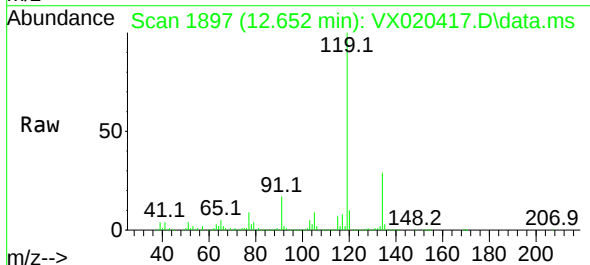
Instrument :
MSVOA_X
ClientSampleId :

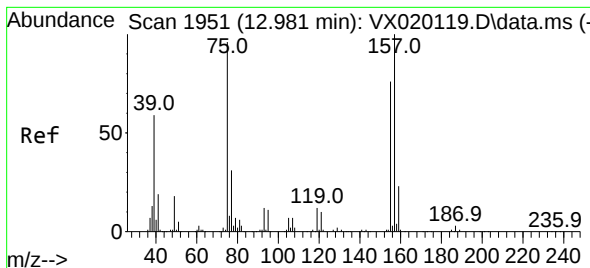
Tgt Ion: 91 Resp: 50060
Ion Ratio Lower Upper
91 100
92 52.7 27.4 82.0
134 31.5 13.2 39.5



#90
Hexachloroethane
Concen: 10.11 ug/l
RT: 12.652 min Scan# 1897
Delta R.T. 0.073 min
Lab File: VX020417.D
Acq: 28 Dec 2020 16:57

Tgt Ion: 117 Resp: 20724
Ion Ratio Lower Upper
117 100
201 0.0 40.4 121.2#

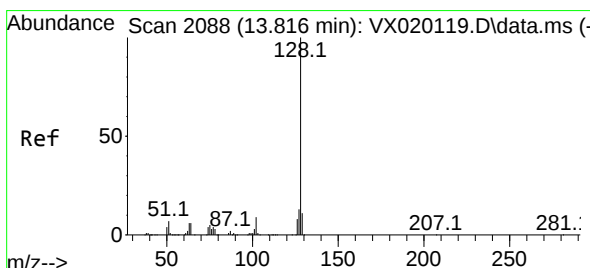
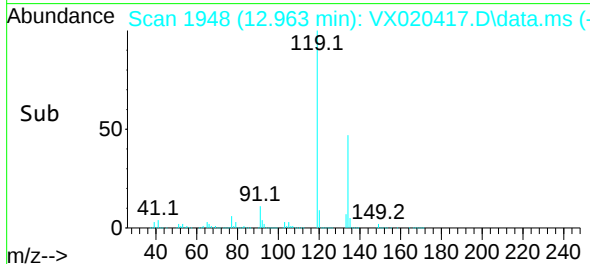
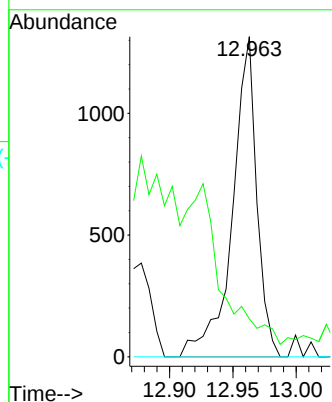
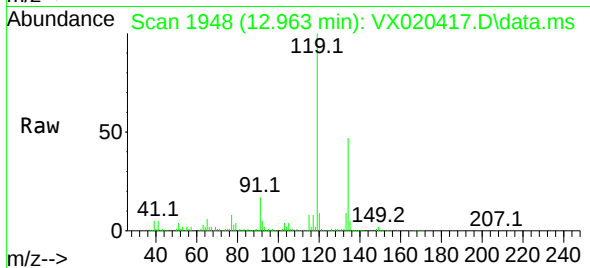




#92
1,2-Dibromo-3-Chloropropane
Concen: 1.68 ug/l
RT: 12.963 min Scan# 1948
Delta R.T. -0.018 min
Lab File: VX020417.D
Acq: 28 Dec 2020 16:57

Instrument :
MSVOA_X
ClientSampled :

Tgt Ion: 75 Resp: 1761
Ion Ratio Lower Upper
75 100
155 0.0 45.3 135.9#
157 0.0 57.7 173.1#



#95
Naphthalene
Concen: 0.32 ug/l
RT: 13.835 min Scan# 2091
Delta R.T. 0.019 min
Lab File: VX020417.D
Acq: 28 Dec 2020 16:57

Tgt Ion: 128 Resp: 4248
Ion Ratio Lower Upper
128 100
127 39.8 10.3 15.5#
129 93.4 8.8 13.2#

