

Data Path : Z:\VOASRV\HPCHEM1\MSVOA X\DATA\VX110920\
 Data File : VX019363.D
 Acq On : 09 Nov 2020 13:29
 Operator : JC/MD
 Sample : L4670-01
 Misc : 5.0mL/MSVOA X/WATER
 ALS Vial : 8 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :

Quant Time: Nov 10 01:43:20 2020
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_X\METHOD\82X102720W.M
 Quant Title : SW846 8260
 QLast Update : Tue Oct 27 13:55:07 2020
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	5.63	168	300225	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	6.83	114	517435	50.00	ug/l	0.00
63) Chlorobenzene-d5	10.10	117	494692	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.06	152	252618	50.00	ug/l	0.00

System Monitoring Compounds

33) 1,2-Dichloroethane-d4	6.03	65	207873	53.69	ug/l	0.00
Spiked Amount	50.000		Recovery	=	107.38%	
35) Dibromofluoromethane	5.46	113	163002	50.15	ug/l	0.00
Spiked Amount	50.000		Recovery	=	100.30%	
50) Toluene-d8	8.70	98	651818	53.20	ug/l	0.00
Spiked Amount	50.000		Recovery	=	106.40%	
62) 4-Bromofluorobenzene	11.12	95	249508	53.77	ug/l	0.00
Spiked Amount	50.000		Recovery	=	107.54%	

Target Compounds

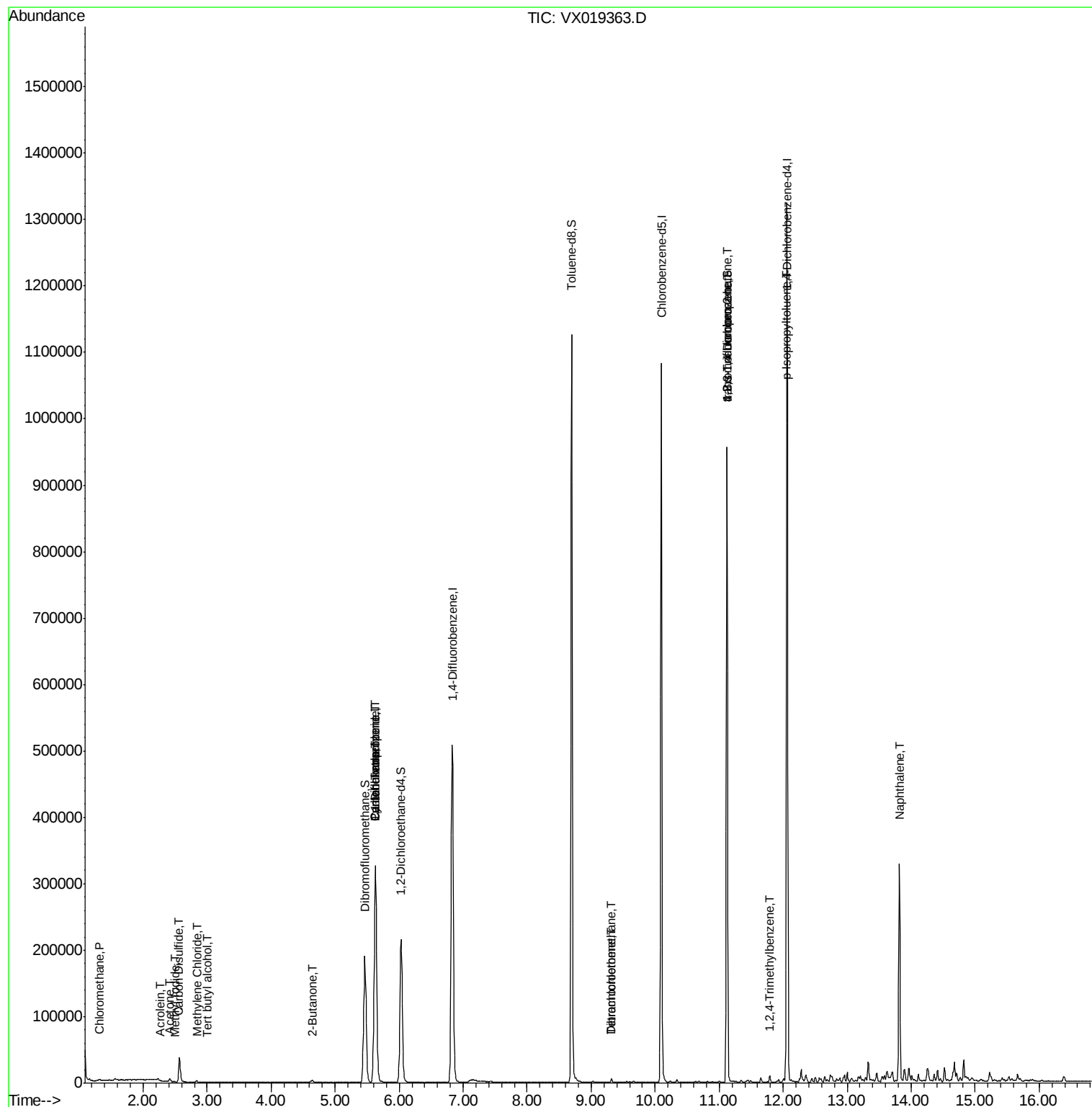
						Qvalue
3) Chloromethane	1.31	50	991	0.354	ug/l #	84
10) Methyl Iodide	2.50	142	279	6.452	ug/l #	63
11) Tert butyl alcohol	3.00	59	634	0.829	ug/l #	72
13) Acrolein	2.27	56	215	6.263	ug/l #	16
16) Acetone	2.42	43	4809	3.600	ug/l #	83
17) Carbon Disulfide	2.56	76	1173	0.899	ug/l #	82
20) Methylene Chloride	2.84	84	948	0.283	ug/l	89
25) 2-Butanone	4.65	43	692	0.329	ug/l #	44
31) Cyclohexane	5.63	56	6891	1.408	ug/l #	19
36) 1,1-Dichloropropene	5.63	75	24138	5.052	ug/l #	49
38) Carbon Tetrachloride	5.63	117	31381	6.443	ug/l #	17
60) Dibromochloromethane	9.32	129	1021	0.273	ug/l #	11
64) Tetrachloroethene	9.32	164	1058	0.281	ug/l	95
76) 1,2,3-Trichloropropane	11.12	75	129355	24.800	ug/l #	37
81) trans-1,4-Dichloro-2-buten	11.12	75	129355	65.297	ug/l #	12
84) 1,2,4-Trimethylbenzene	11.79	105	3917	0.257	ug/l	91
86) p-Isopropyltoluene	12.05	119	52427	3.274	ug/l	98
95) Naphthalene	13.82	128	199762	10.640	ug/l	99

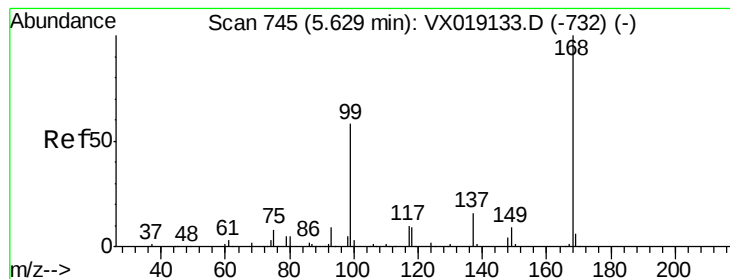
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 5.63 min Scan# 745

Delta R.T. -0.00 min

Lab File: VX019363.D

Acq: 09 Nov 2020 13:29

Instrument :

MSVOA_X

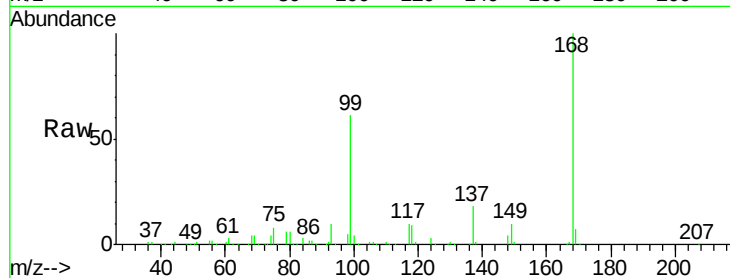
ClientSampleId :

Tot Ion:168 Resp: 300225

Ion Ratio Lower Upper

168 100

99 60.6 46.6 69.8



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VX0

5.63

120000

100000

80000

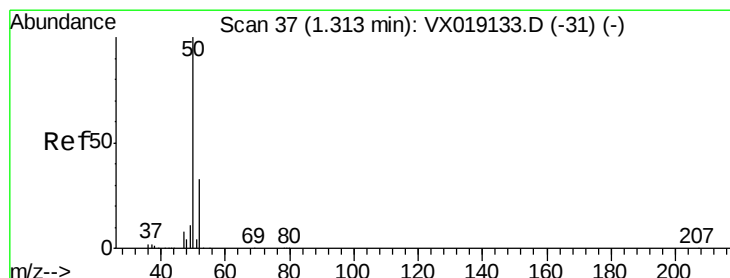
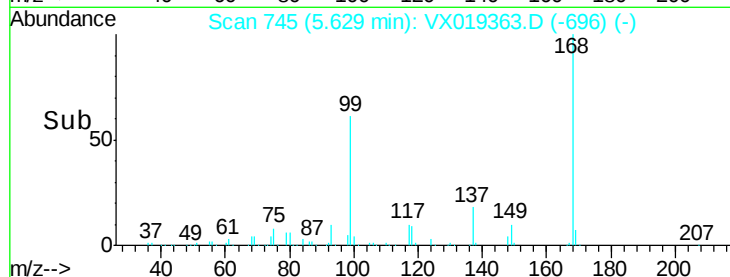
60000

40000

20000

0

Time-->



#3

Chloromethane

Concen: 0.354 ug/l

RT: 1.31 min Scan# 37

Delta R.T. -0.00 min

Lab File: VX019363.D

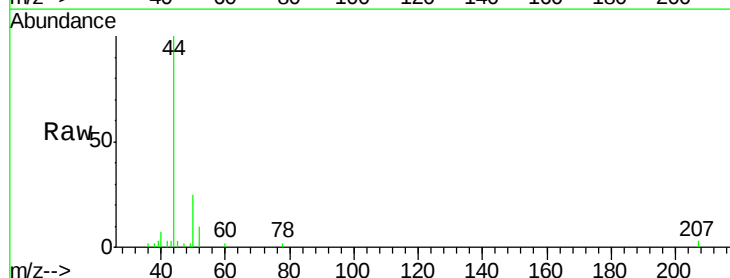
Acq: 09 Nov 2020 13:29

Tgt Ion: 50 Resp: 991

Ion Ratio Lower Upper

50 100

52 42.4 26.8 40.2#



Abundance Ion 49.90 (49.60 to 50.60): VX0

Ion 51.90 (51.60 to 52.60): VX0

1.31

1000

800

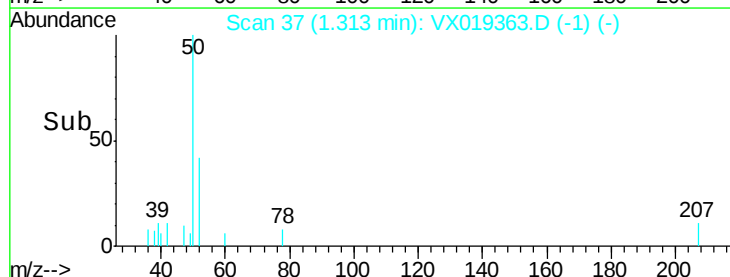
600

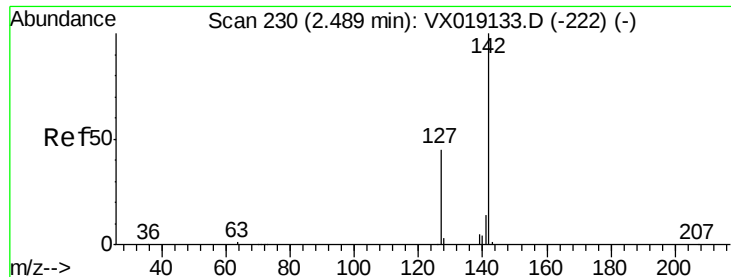
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200

0

Time-->

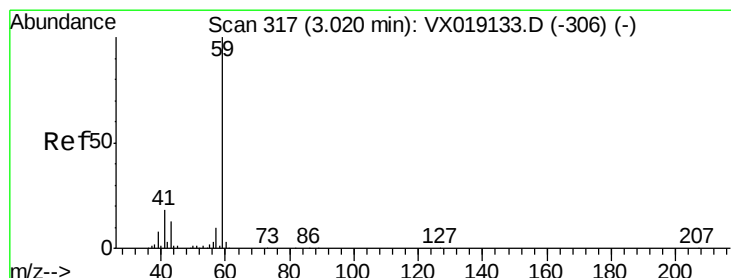
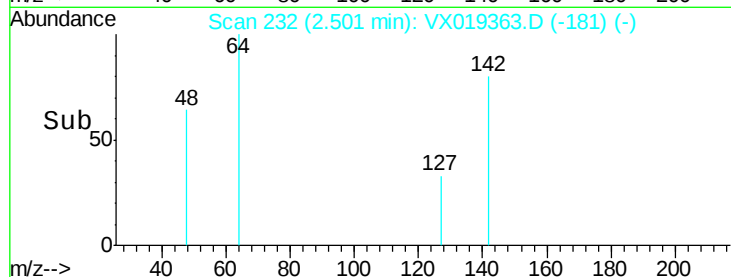
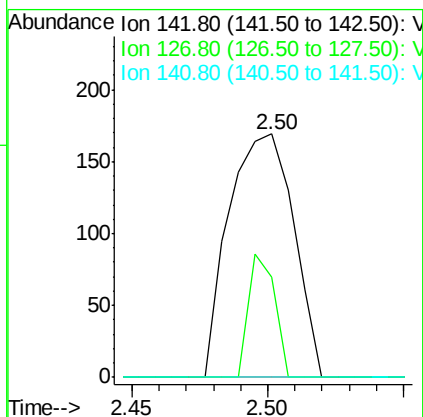
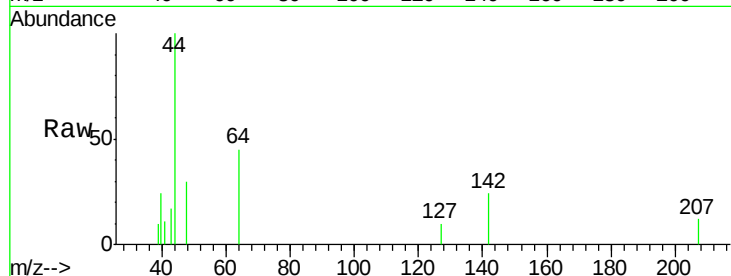




#10
Methvl Iodide
Concen: 6.452 ug/l
RT: 2.50 min Scan# 232
Delta R.T. 0.01 min
Lab File: VX019363.D
Acq: 09 Nov 2020 13:29

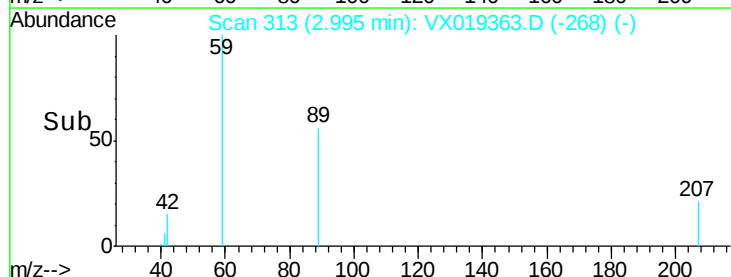
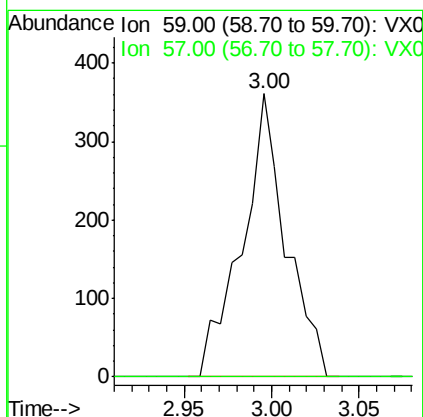
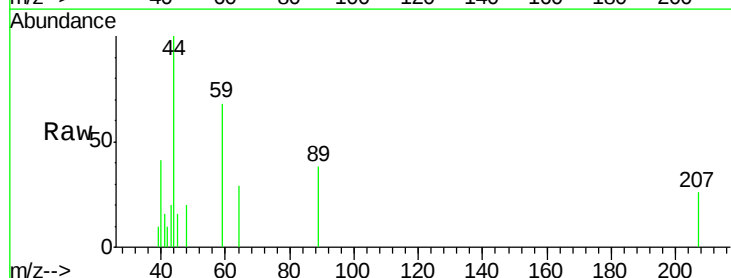
Instrument :
MSVOA_X
ClientSampled :

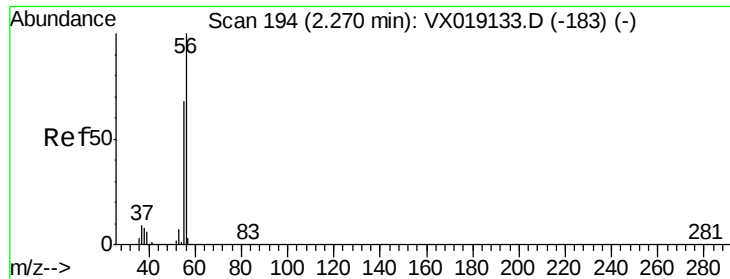
Tot Ion:142 Resp: 279
Ion Ratio Lower Upper
142 100
127 20.4 36.1 54.1#
141 0.0 11.3 16.9#



#11
Tert butyl alcohol
Concen: 0.829 ug/l
RT: 3.00 min Scan# 313
Delta R.T. -0.02 min
Lab File: VX019363.D
Acq: 09 Nov 2020 13:29

Tgt Ion: 59 Resp: 634
Ion Ratio Lower Upper
59 100
57 0.0 8.4 12.6#





#13

Acrolein

Concen: 6.263 ug/l

RT: 2.27 min Scan# 194

Delta R.T. 0.00 min

Lab File: VX019363.D

Acq: 09 Nov 2020 13:29

Instrument :

MSVOA_X

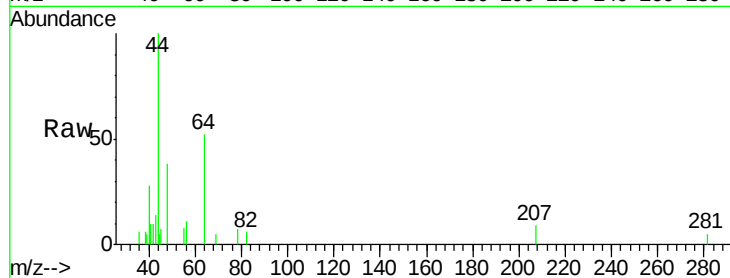
ClientSampleId :

Tot Ion: 56 Resp: 215

Ion Ratio Lower Upper

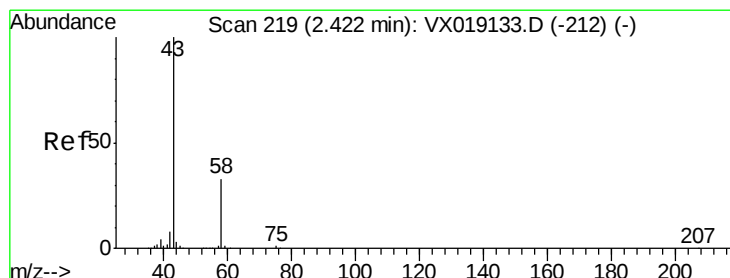
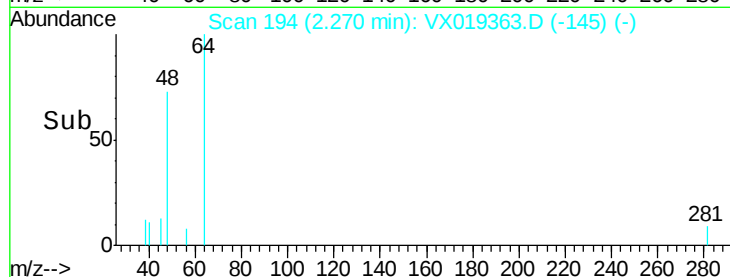
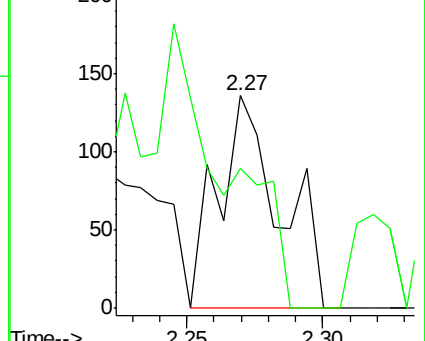
56 100

55 0.0 54.7 82.1#



Abundance Ion 56.00 (55.70 to 56.70): VX0

Ion 55.00 (54.70 to 55.70): VX0



#16

Acetone

Concen: 3.600 ug/l

RT: 2.42 min Scan# 218

Delta R.T. -0.01 min

Lab File: VX019363.D

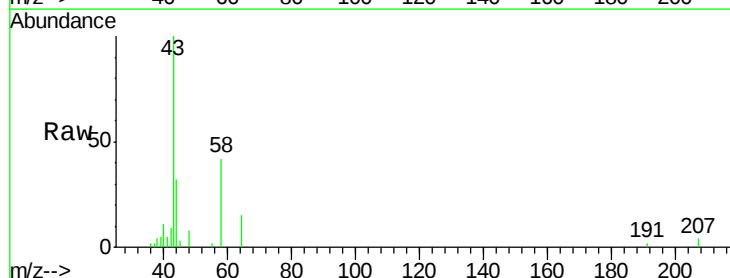
Acq: 09 Nov 2020 13:29

Tgt Ion: 43 Resp: 4809

Ion Ratio Lower Upper

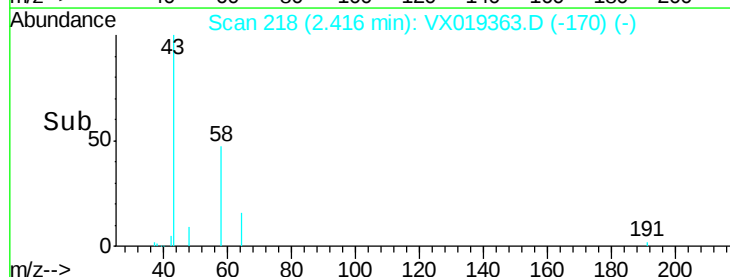
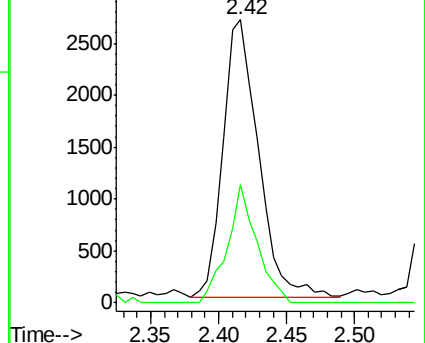
43 100

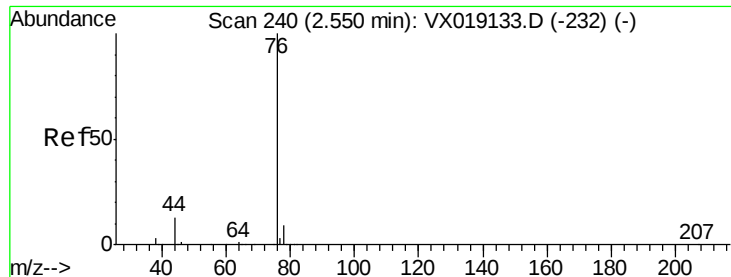
58 42.7 26.3 39.5#



Abundance Ion 43.00 (42.70 to 43.70): VX0

Ion 58.00 (57.70 to 58.70): VX0

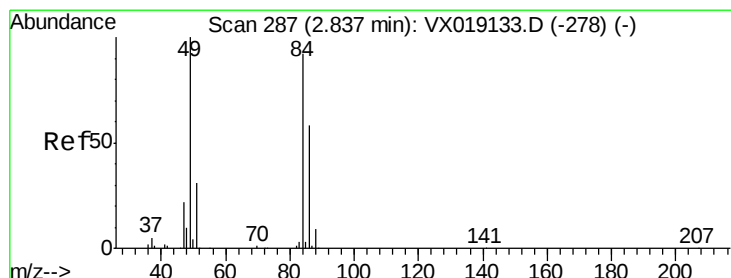
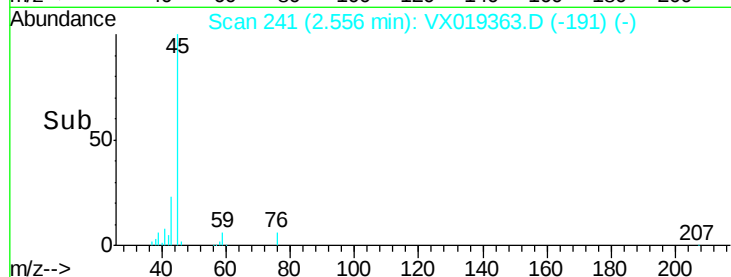
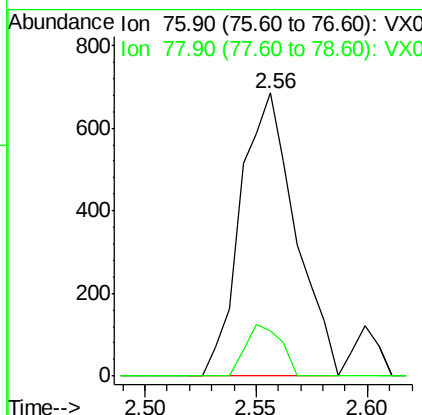
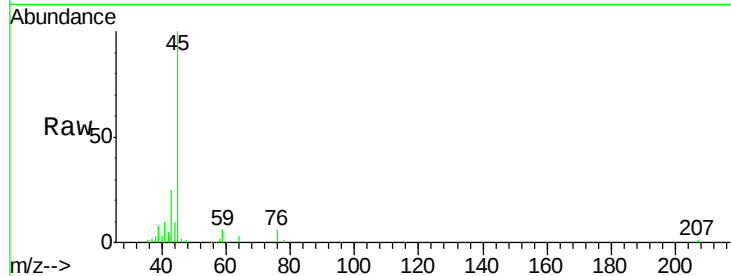




#17
Carbon Disulfide
Concen: 0.899 ug/l
RT: 2.56 min Scan# 241
Delta R.T. 0.01 min
Lab File: VX019363.D
Acq: 09 Nov 2020 13:29

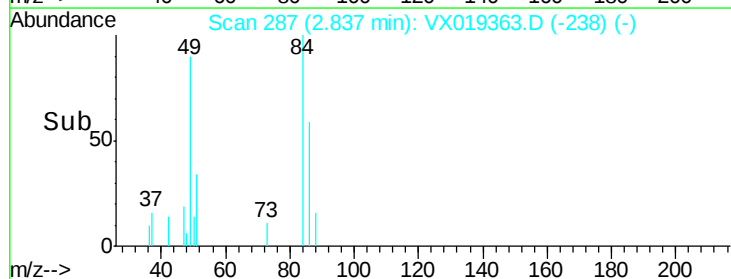
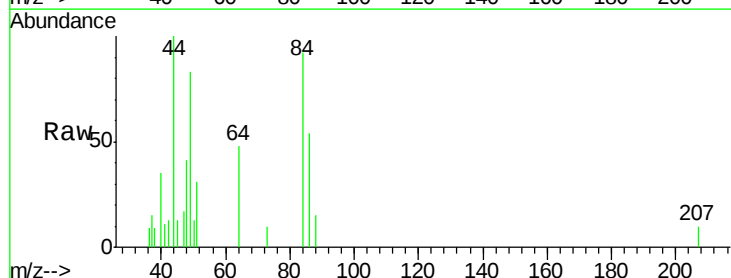
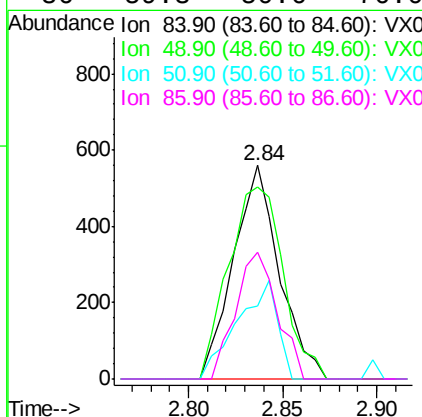
Instrument :
MSVOA_X
ClientSampleId :

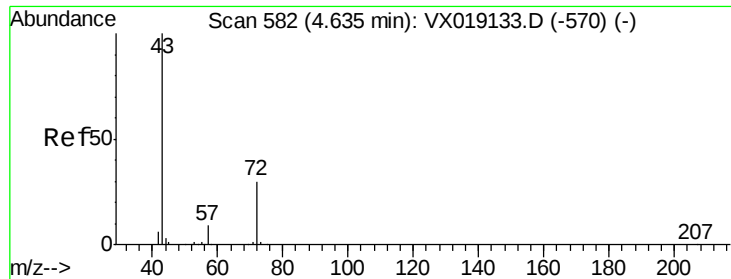
Tot Ion: 76 Resp: 1173
Ion Ratio Lower Upper
76 100
78 15.8 7.3 10.9#



#20
Methylene Chloride
Concen: 0.283 ug/l
RT: 2.84 min Scan# 287
Delta R.T. -0.00 min
Lab File: VX019363.D
Acq: 09 Nov 2020 13:29

Tgt Ion: 84 Resp: 948
Ion Ratio Lower Upper
84 100
49 90.0 86.8 130.2
51 33.9 27.3 40.9
86 59.3 50.6 76.0

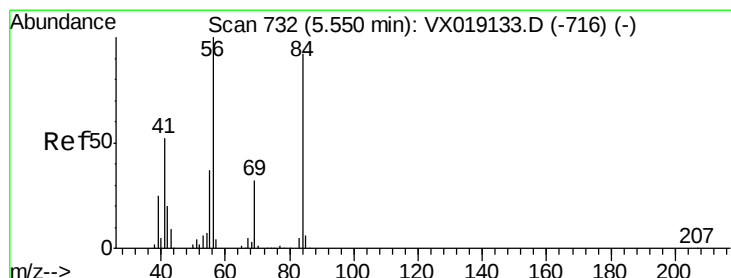
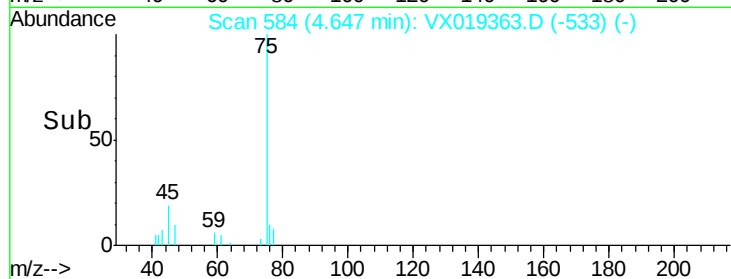
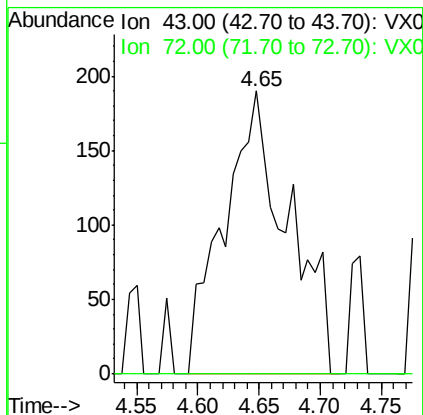
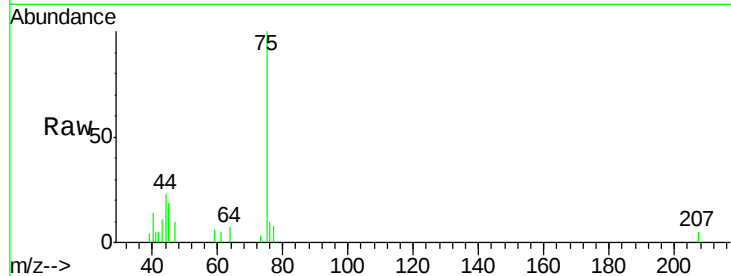




#25
2-Butanone
Concen: 0.329 ug/l
RT: 4.65 min Scan# 584
Delta R.T. 0.01 min
Lab File: VX019363.D
Acq: 09 Nov 2020 13:29

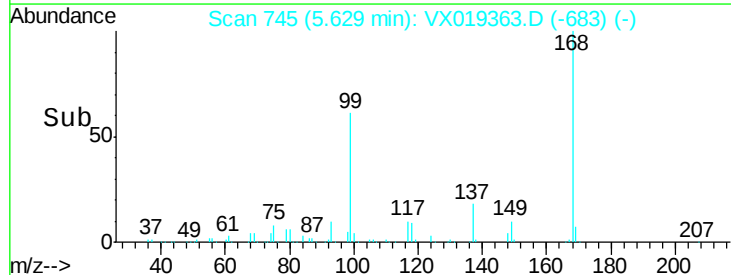
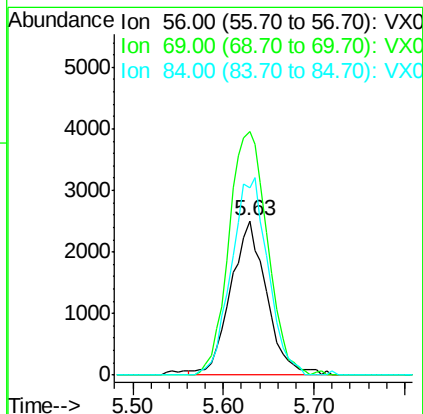
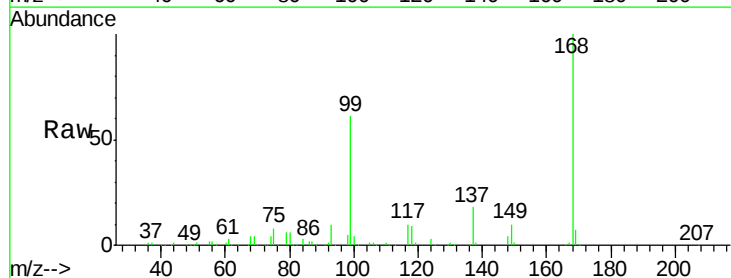
Instrument :
MSVOA_X
ClientSampleId :

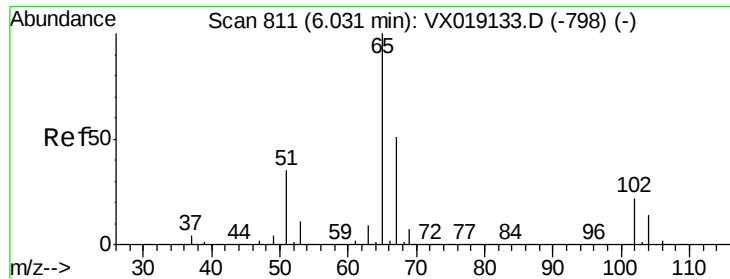
Tot Ion: 43 Resp: 692
Ion Ratio Lower Upper
43 100
72 0.0 24.6 36.8#



#31
Cyclohexane
Concen: 1.408 ug/l
RT: 5.63 min Scan# 745
Delta R.T. 0.08 min
Lab File: VX019363.D
Acq: 09 Nov 2020 13:29

Tgt Ion: 56 Resp: 6891
Ion Ratio Lower Upper
56 100
69 157.6 25.9 38.9#
84 121.6 73.4 110.2#

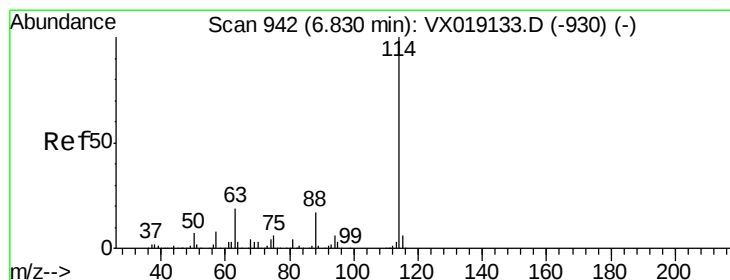
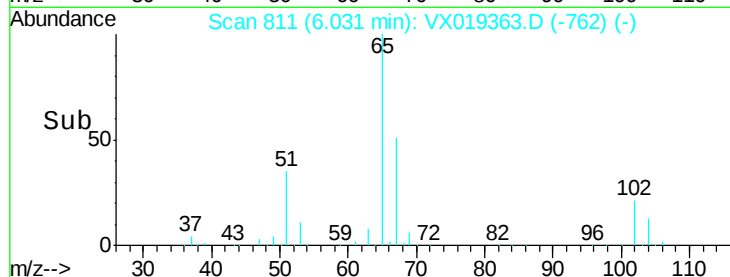
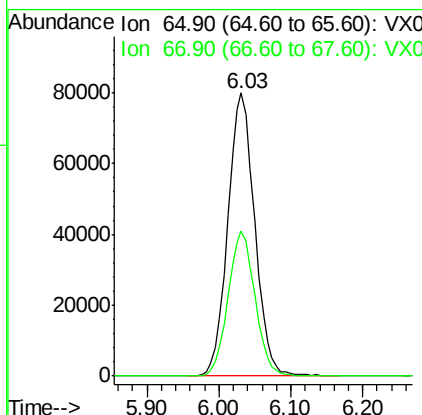
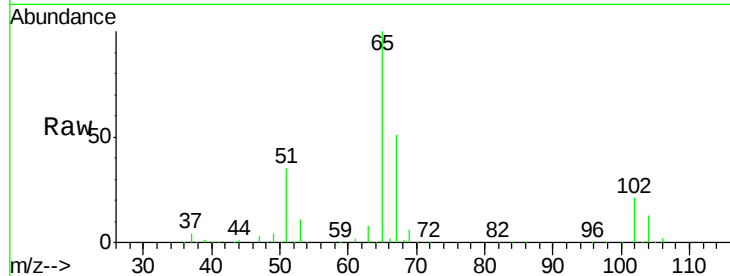




#33
 1,2-Dichloroethane-d4
 Concen: 53.689 ug/l
 RT: 6.03 min Scan# 811
 Delta R.T. -0.00 min
 Lab File: VX019363.D
 Acq: 09 Nov 2020 13:29

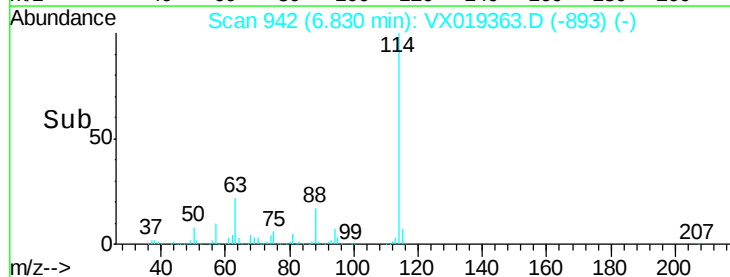
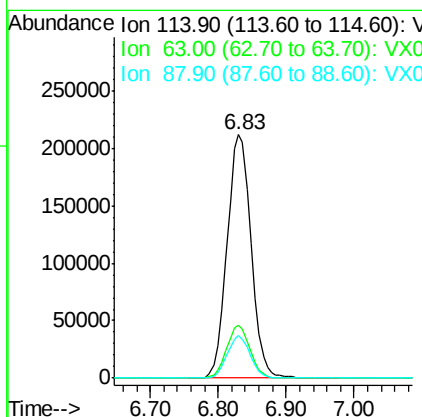
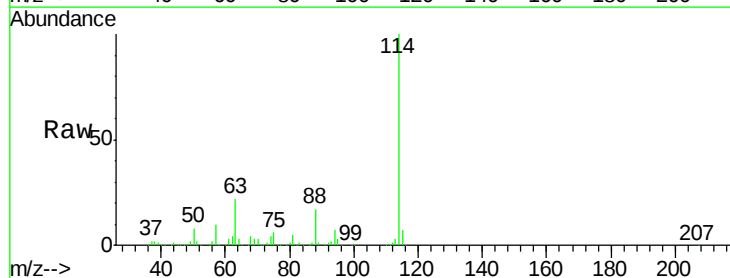
Instrument :
 MSVOA_X
 ClientSampleId :

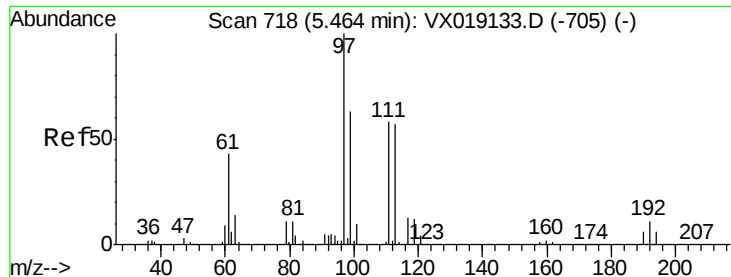
Tot Ion: 65 Resp: 207873
 Ion Ratio Lower Upper
 65 100
 67 51.3 0.0 103.0



#34
 1,4-Difluorobenzene
 Concen: 50.000 ug/l
 RT: 6.83 min Scan# 942
 Delta R.T. -0.00 min
 Lab File: VX019363.D
 Acq: 09 Nov 2020 13:29

Tgt Ion: 114 Resp: 517435
 Ion Ratio Lower Upper
 114 100
 63 21.6 0.0 38.8
 88 17.4 0.0 34.2

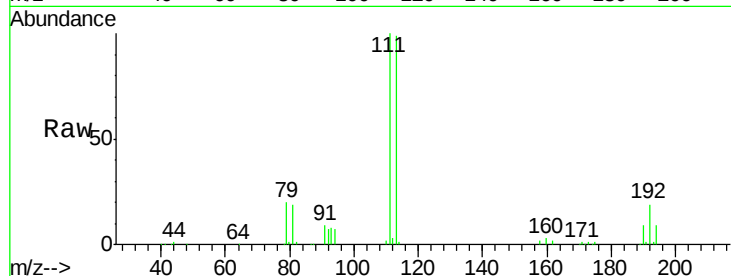




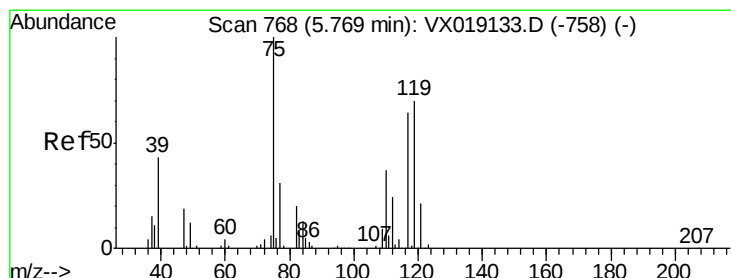
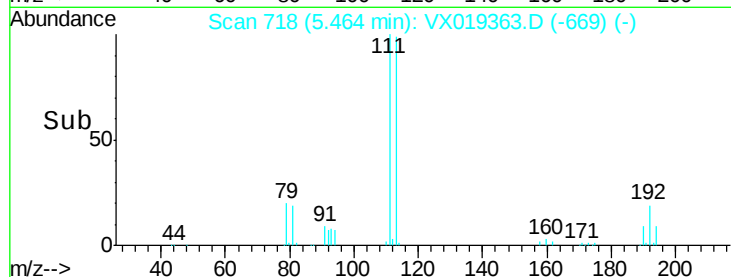
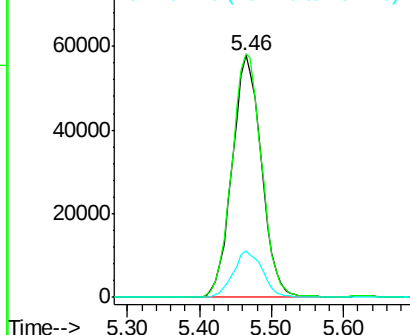
#35
 Dibromofluoromethane
 Concen: 50.151 ug/l
 RT: 5.46 min Scan# 718
 Delta R.T. -0.00 min
 Lab File: VX019363.D
 Acq: 09 Nov 2020 13:29

Instrument :
 MSVOA_X
 ClientSampleId :

Tot Ion:113 Resp: 163002
 Ion Ratio Lower Upper
 113 100
 111 102.6 82.3 123.5
 192 19.3 16.2 24.2

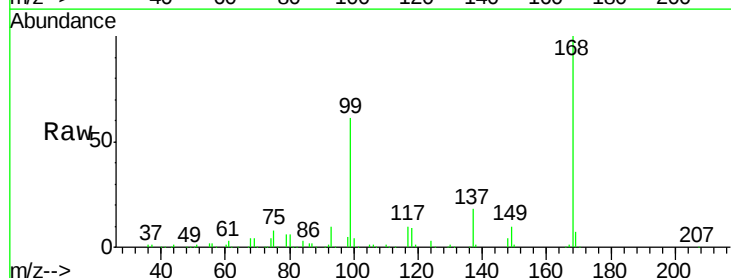


Abundance Ion 112.80 (112.50 to 113.50): V
 Ion 110.80 (110.50 to 111.50): V
 Ion 191.70 (191.40 to 192.40): V

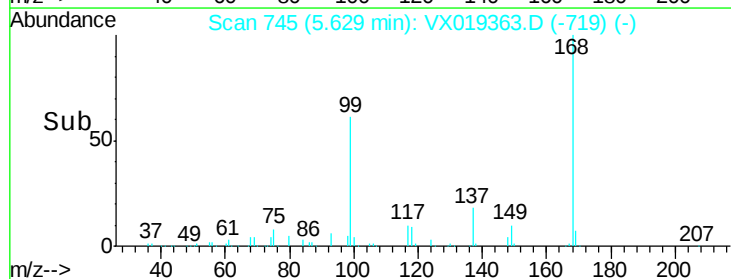
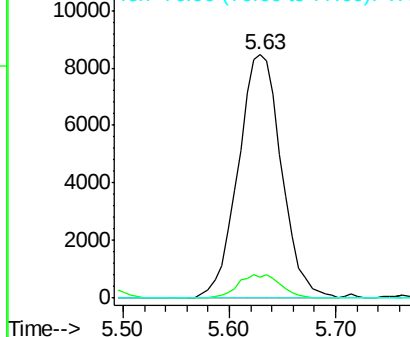


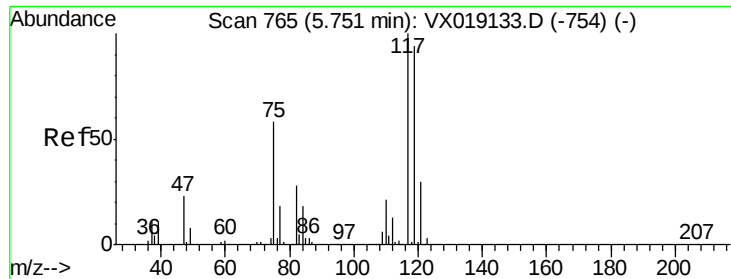
#36
 1,1-Dichloropropene
 Concen: 5.052 ug/l
 RT: 5.63 min Scan# 745
 Delta R.T. -0.14 min
 Lab File: VX019363.D
 Acq: 09 Nov 2020 13:29

Tgt Ion: 75 Resp: 24138
 Ion Ratio Lower Upper
 75 100
 110 9.5 18.3 54.9#
 77 0.0 24.9 37.3#



Abundance Ion 74.90 (74.60 to 75.60): VX0
 Ion 109.90 (109.60 to 110.60): V
 Ion 76.90 (76.60 to 77.60): VX0

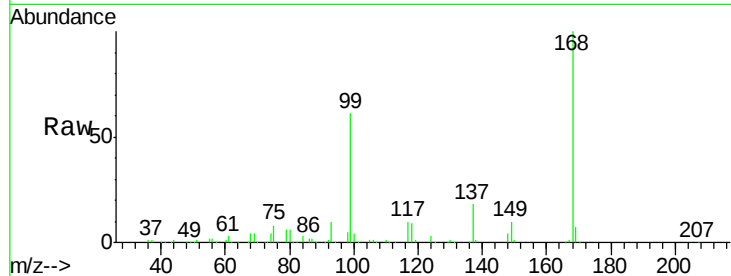




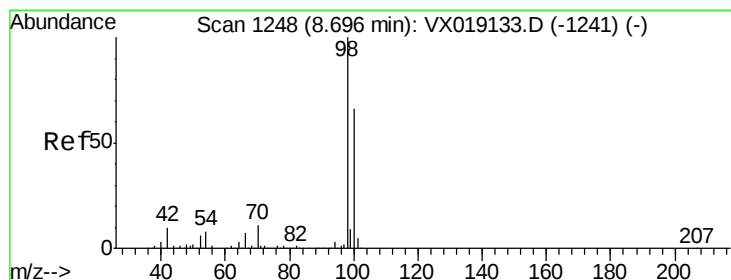
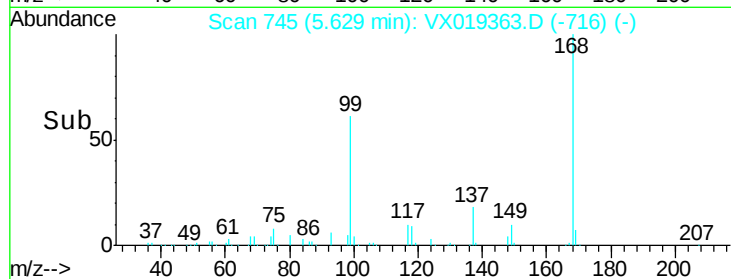
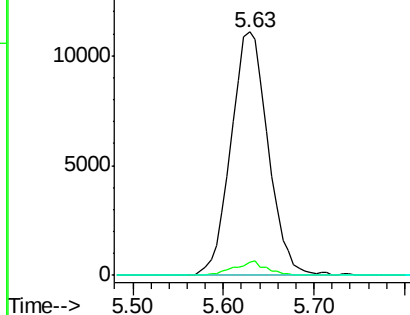
#38
Carbon Tetrachloride
Concen: 6.443 ug/l
RT: 5.63 min Scan# 745
Delta R.T. -0.12 min
Lab File: VX019363.D
Acq: 09 Nov 2020 13:29

Instrument :
MSVOA_X
ClientSampled :

Tot Ion:117 Resp: 31381
Ion Ratio Lower Upper
117 100
119 5.6 75.0 112.6#
121 0.0 23.9 35.9#

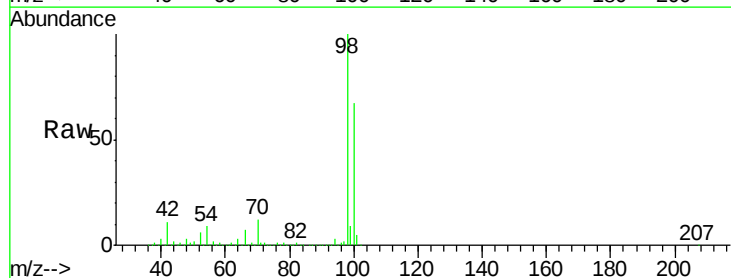


Abundance Ion 116.80 (116.50 to 117.50): V
Ion 118.80 (118.50 to 119.50): V
Ion 120.80 (120.50 to 121.50): V

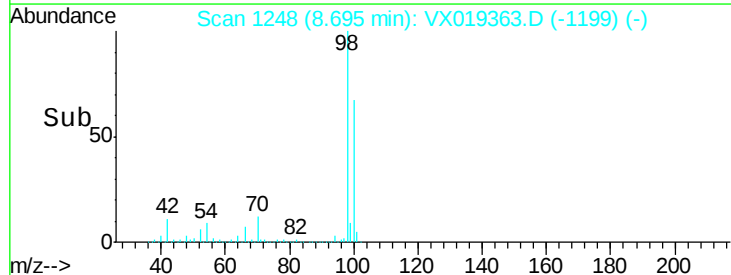
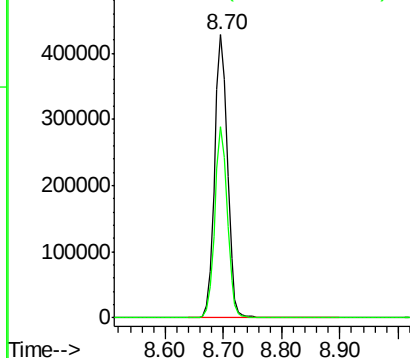


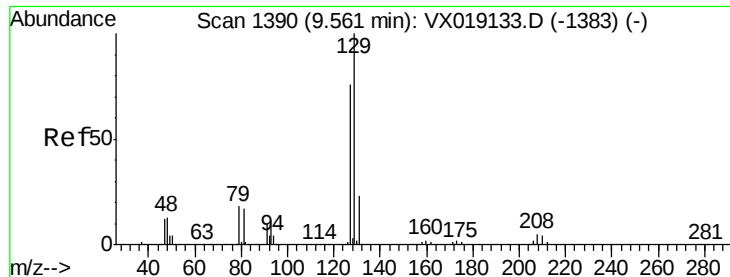
#50
Toluene-d8
Concen: 53.200 ug/l
RT: 8.70 min Scan# 1248
Delta R.T. -0.00 min
Lab File: VX019363.D
Acq: 09 Nov 2020 13:29

Tgt Ion: 98 Resp: 651818
Ion Ratio Lower Upper
98 100
100 66.0 53.0 79.6



Abundance Ion 98.00 (97.70 to 98.70): VX0
Ion 100.00 (99.70 to 100.70): V





#60

Dibromochloromethane

Concen: 0.273 ug/l

RT: 9.32 min Scan# 1351

Delta R.T. -0.24 min

Lab File: VX019363.D

Acq: 09 Nov 2020 13:29

Instrument :

MSVOA_X

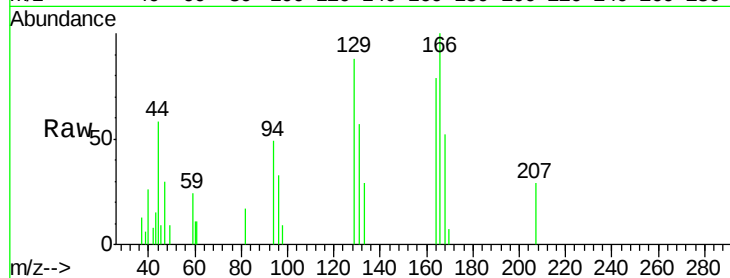
ClientSampleId :

Tot Ion:129 Resp: 1021

Ion Ratio Lower Upper

129 100

127 0.0 38.6 115.8#



Abundance Ion 128.80 (128.50 to 129.50): V

Ion 126.80 (126.50 to 127.50): V

800

600

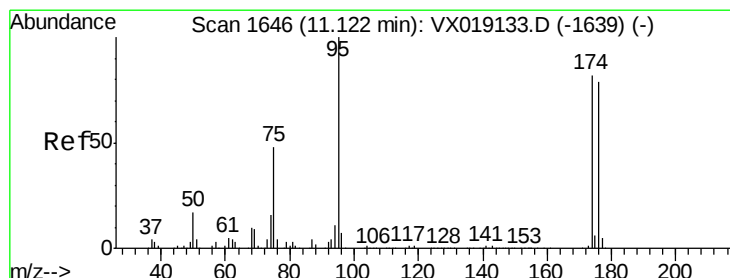
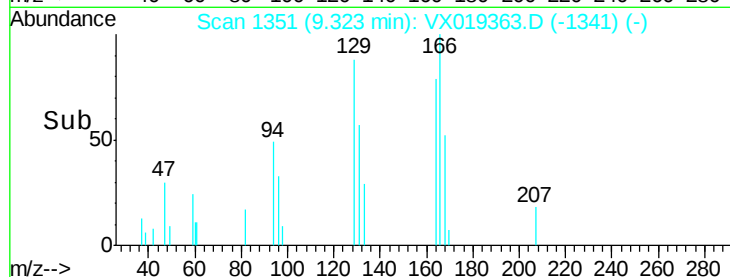
400

200

0

9.30 9.32 9.35

Time-->



#62

4-Bromofluorobenzene

Concen: 53.774 ug/l

RT: 11.12 min Scan# 1646

Delta R.T. -0.00 min

Lab File: VX019363.D

Acq: 09 Nov 2020 13:29

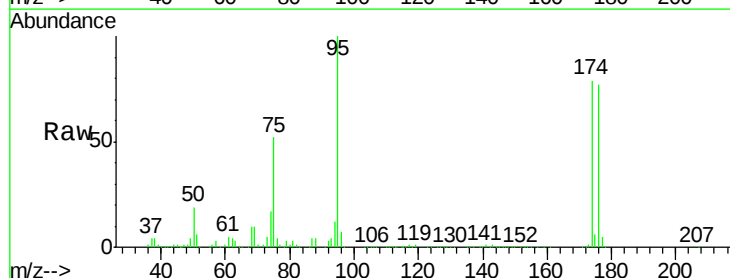
Tgt Ion: 95 Resp: 249508

Ion Ratio Lower Upper

95 100

174 74.8 0.0 156.0

176 73.6 0.0 149.8



Abundance Ion 94.90 (94.60 to 95.60): VX0

Ion 173.80 (173.50 to 174.50): V

Ion 175.80 (175.50 to 176.50): V

250000

200000

150000

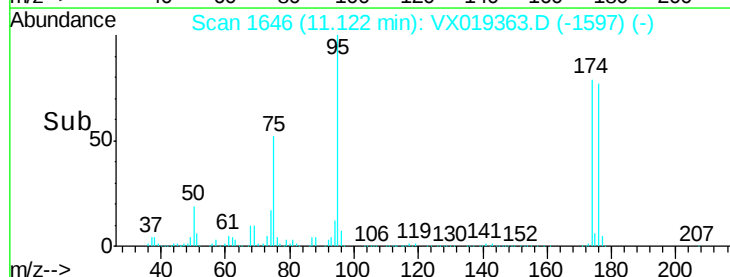
100000

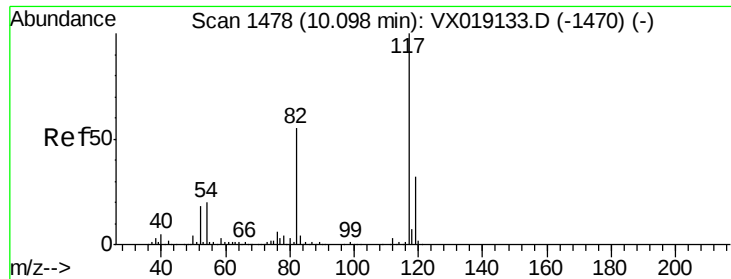
50000

0

11.10 11.12 11.20

Time-->

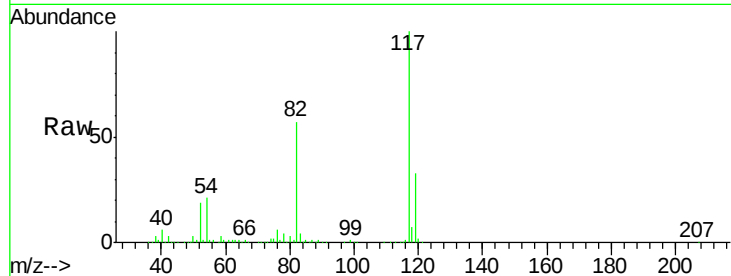




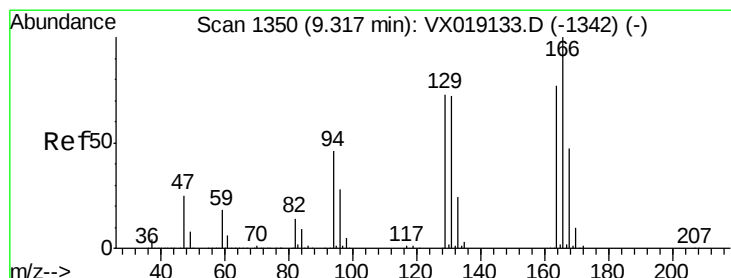
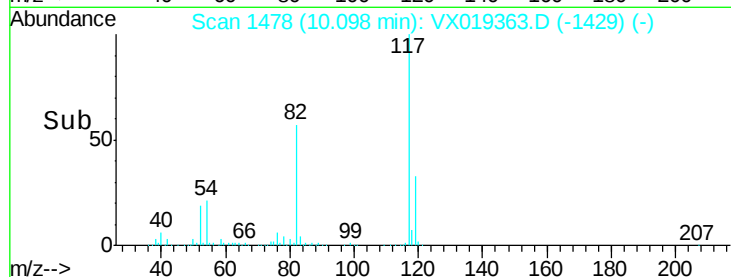
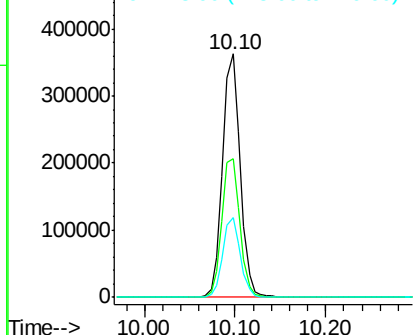
#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 10.10 min Scan# 1478
Delta R.T. -0.00 min
Lab File: VX019363.D
Acq: 09 Nov 2020 13:29

Instrument :
MSVOA_X
ClientSampleId :

Tot Ion:117 Resp: 494692
Ion Ratio Lower Upper
117 100
82 57.1 43.6 65.4
119 32.6 25.5 38.3

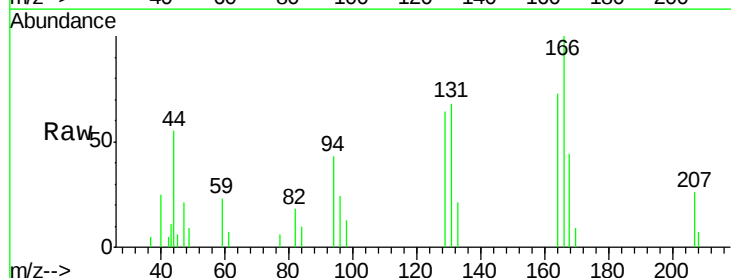


Abundance Ion 116.90 (116.60 to 117.60): V
Ion 82.00 (81.70 to 82.70): VX0
Ion 118.90 (118.60 to 119.60): V

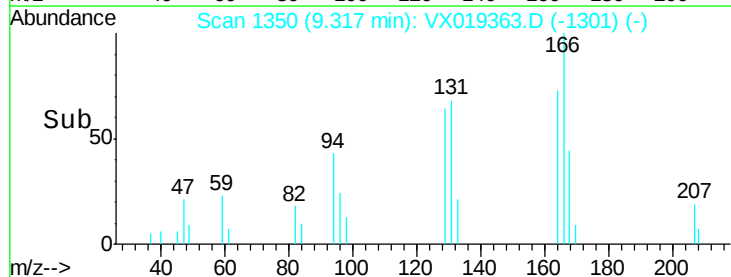
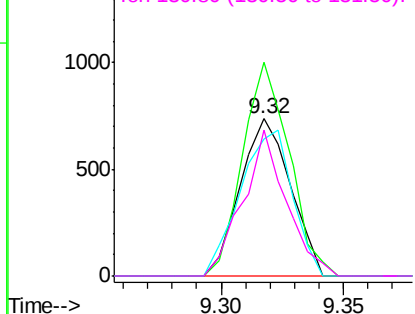


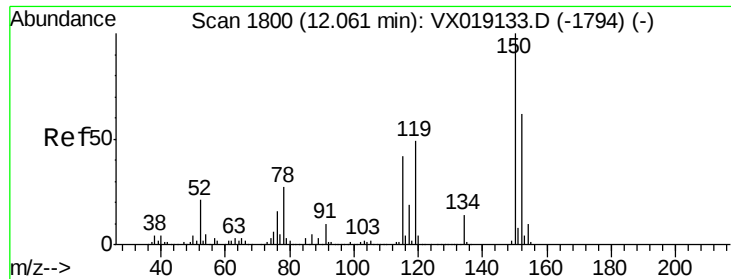
#64
Tetrachloroethene
Concen: 0.281 ug/l
RT: 9.32 min Scan# 1350
Delta R.T. -0.00 min
Lab File: VX019363.D
Acq: 09 Nov 2020 13:29

Tgt Ion:164 Resp: 1058
Ion Ratio Lower Upper
164 100
166 136.1 104.1 156.1
129 87.5 76.2 114.4
131 93.1 74.6 112.0



Abundance Ion 163.80 (163.50 to 164.50): V
Ion 165.80 (165.50 to 166.50): V
Ion 128.80 (128.50 to 129.50): V
Ion 130.80 (130.50 to 131.50): V





#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

RT: 12.06 min Scan# 1800

Delta R.T. -0.00 min

Lab File: VX019363.D

Acq: 09 Nov 2020 13:29

Instrument :

MSVOA_X

ClientSampleId :

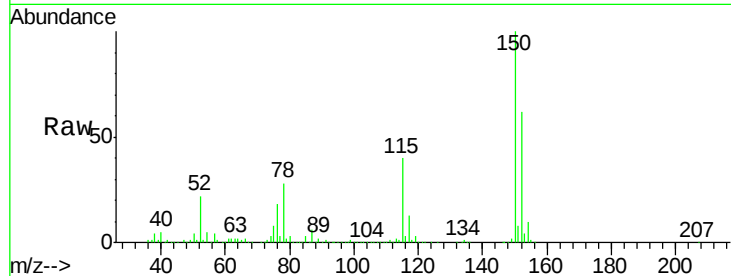
Tot Ion:152 Resp: 252618

Ion Ratio Lower Upper

152 100

115 64.1 41.9 125.7

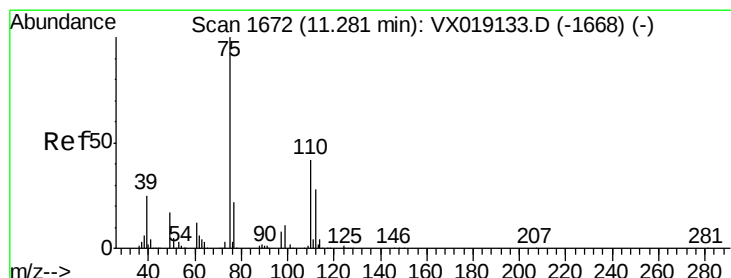
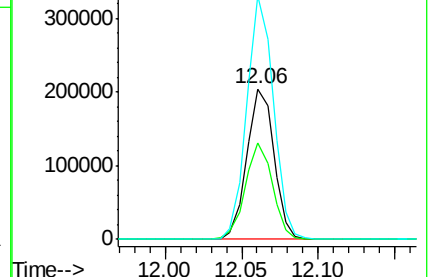
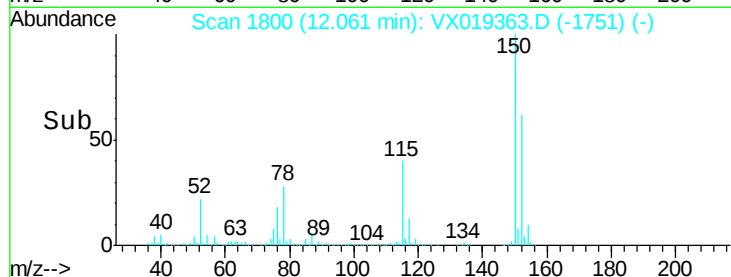
150 158.9 0.0 347.8



Abundance Ion 151.90 (151.60 to 152.60): V

Ion 114.90 (114.60 to 115.60): V

Ion 149.90 (149.60 to 150.60): V



#76

1,2,3-Trichloropropane

Concen: 24.800 ug/l

RT: 11.12 min Scan# 1646

Delta R.T. -0.16 min

Lab File: VX019363.D

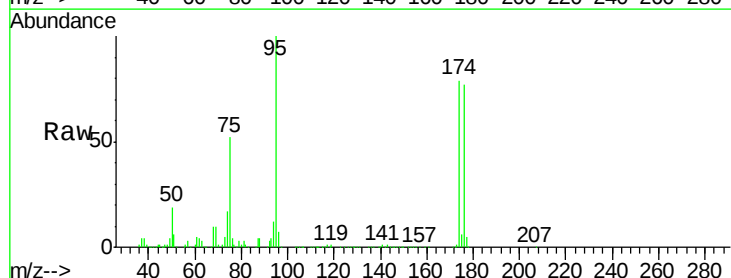
Acq: 09 Nov 2020 13:29

Tgt Ion: 75 Resp: 129355

Ion Ratio Lower Upper

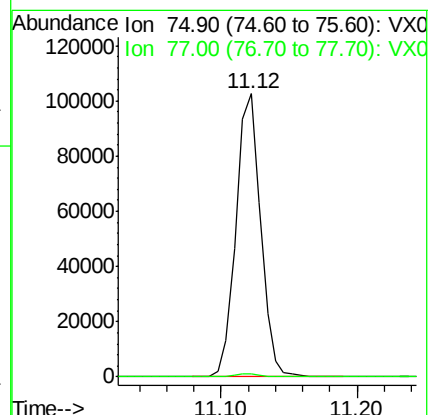
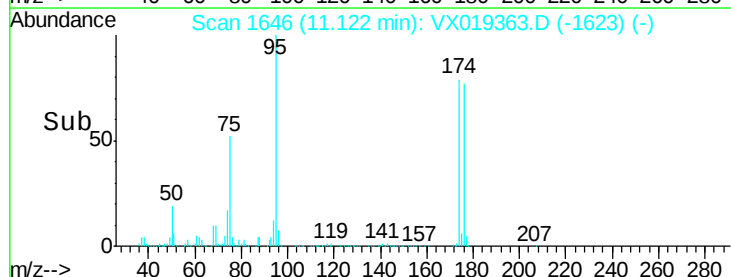
75 100

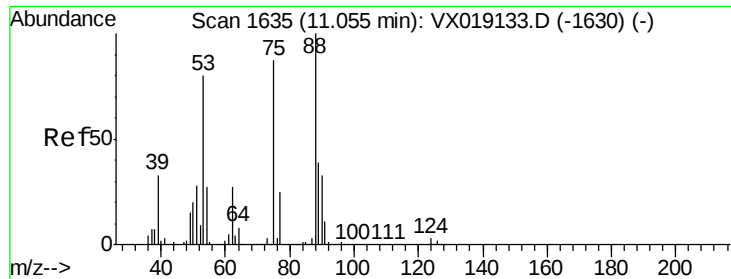
77 1.1 20.3 60.9#



Abundance Ion 74.90 (74.60 to 75.60): VX0

Ion 77.00 (76.70 to 77.70): VX0





#81

trans-1,4-Dichloro-2-butene

Concen: 65.297 ug/l

RT: 11.12 min Scan# 1646

Delta R.T. 0.07 min

Lab File: VX019363.D

Acq: 09 Nov 2020 13:29

Instrument :

MSVOA_X

ClientSampled :

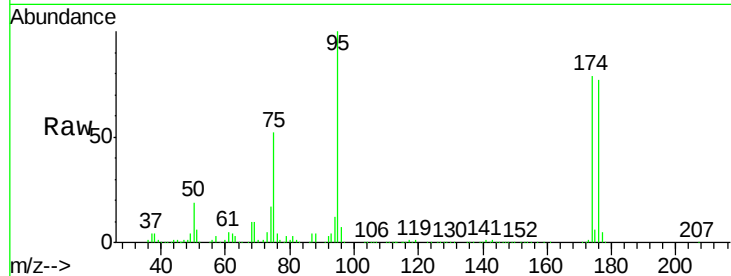
Tot Ion: 75 Resp: 129355

Ion Ratio Lower Upper

75 100

53 0.0 73.3 109.9#

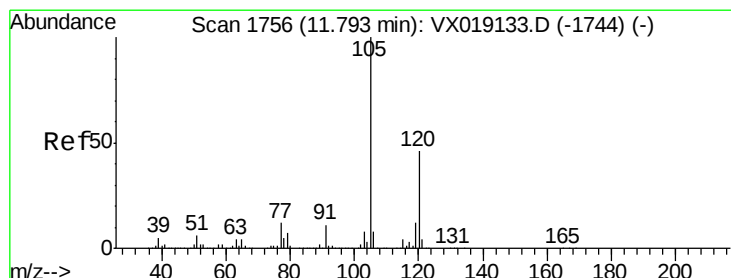
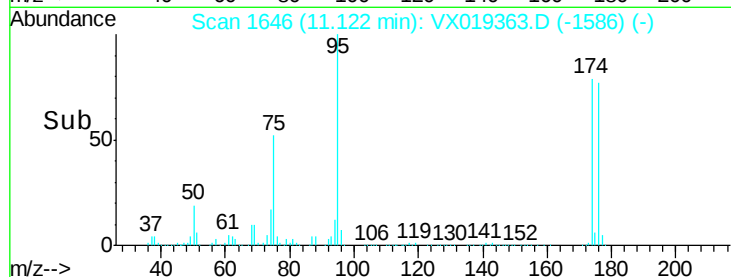
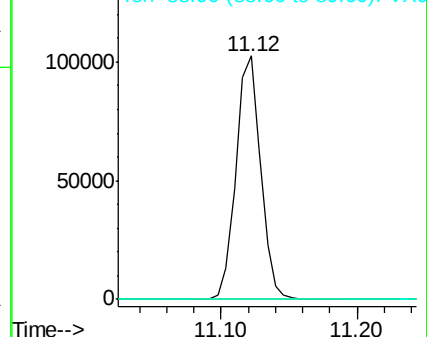
89 0.0 38.2 57.2#



Abundance Ion 74.90 (74.60 to 75.60): VX0

Ion 53.00 (52.70 to 53.70): VX0

Ion 88.90 (88.60 to 89.60): VX0



#84

1,2,4-Trimethylbenzene

Concen: 0.257 ug/l

RT: 11.79 min Scan# 1756

Delta R.T. -0.00 min

Lab File: VX019363.D

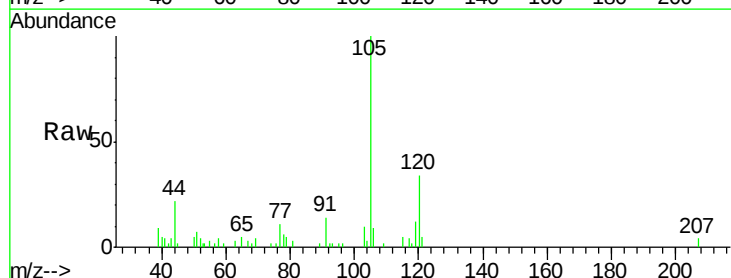
Acq: 09 Nov 2020 13:29

Tgt Ion: 105 Resp: 3917

Ion Ratio Lower Upper

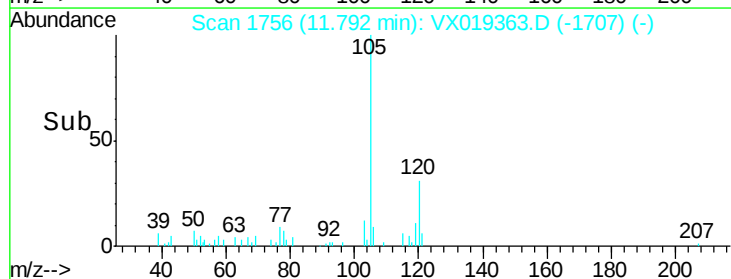
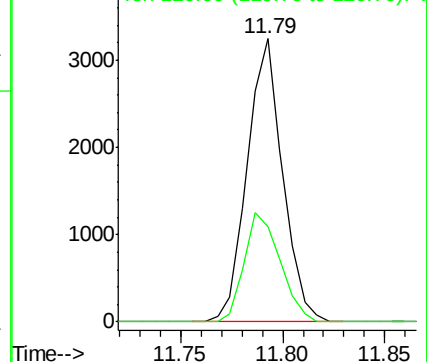
105 100

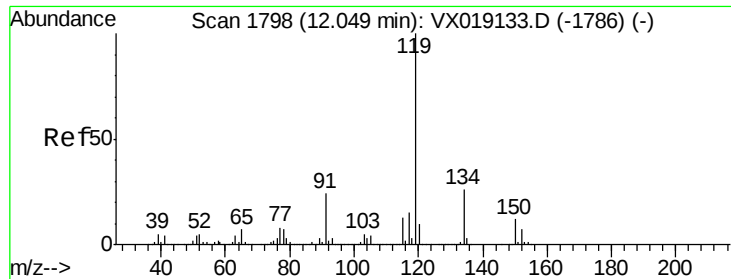
120 38.9 22.4 67.3



Abundance Ion 105.00 (104.70 to 105.70): V

Ion 120.00 (119.70 to 120.70): V

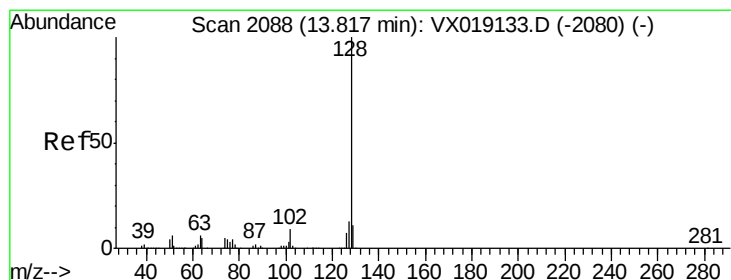
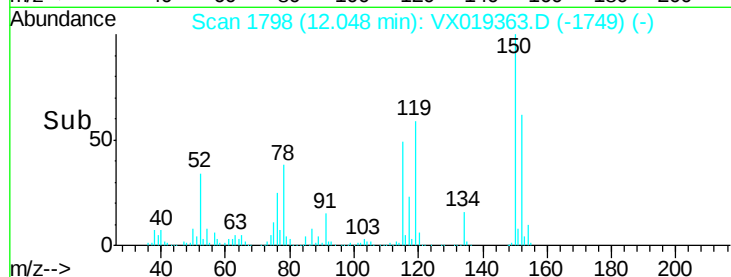
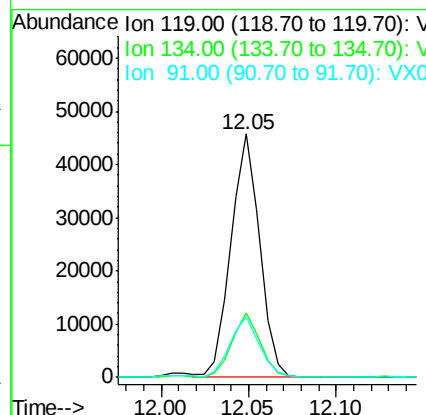
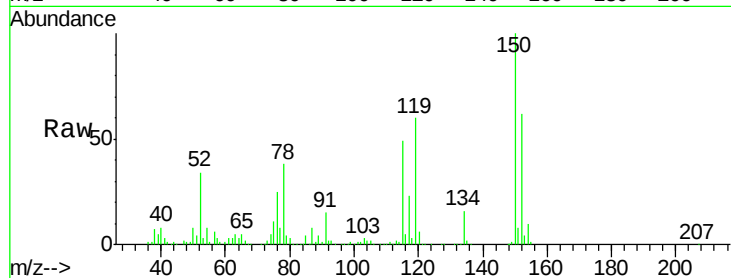




#86
p-Isopropyltoluene
Concen: 3.274 ug/l
RT: 12.05 min Scan# 1798
Delta R.T. -0.00 min
Lab File: VX019363.D
Acq: 09 Nov 2020 13:29

Instrument :
MSVOA_X
ClientSampleId :

Tot Ion	Ratio	Lower	Upper
119	100		
134	26.0	12.9	38.7
91	25.9	12.0	36.0



#95
Naphthalene
Concen: 10.640 ug/l
RT: 13.82 min Scan# 2088
Delta R.T. -0.00 min
Lab File: VX019363.D
Acq: 09 Nov 2020 13:29

Tgt Ion	Ratio	Lower	Upper
128	100		
127	13.0	10.3	15.5
129	11.2	8.6	13.0

