

Data Path : Z:\VOASRV\HPCHEM1\MSVOA X\DATA\VX110720\
 Data File : VX019333.D
 Acq On : 06 Nov 2020 11:59
 Operator : JC/MD
 Sample : L4656-15
 Misc : 5.0mL/MSVOA X/WATER
 ALS Vial : 6 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :
 TB-11-5-2020

Quant Time: Nov 07 01:01:10 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	301988	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	6.83	114	519265	50.00	ug/l	0.00
63) Chlorobenzene-d5	10.10	117	478991	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.06	152	238740	50.00	ug/l	0.00

System Monitoring Compounds	R.T.	QIon	Response	Conc	Units	Dev(Min)
33) 1,2-Dichloroethane-d4	6.03	65	204731	52.57	ug/l	0.00
Spiked Amount				50.000		
			Recovery	=	105.14%	
35) Dibromofluoromethane	5.46	113	161009	49.36	ug/l	0.00
Spiked Amount				50.000		
			Recovery	=	98.72%	
50) Toluene-d8	8.70	98	627095	51.00	ug/l	0.00
Spiked Amount				50.000		
			Recovery	=	102.00%	
62) 4-Bromofluorobenzene	11.12	95	243363	52.26	ug/l	0.00
Spiked Amount				50.000		
			Recovery	=	104.52%	

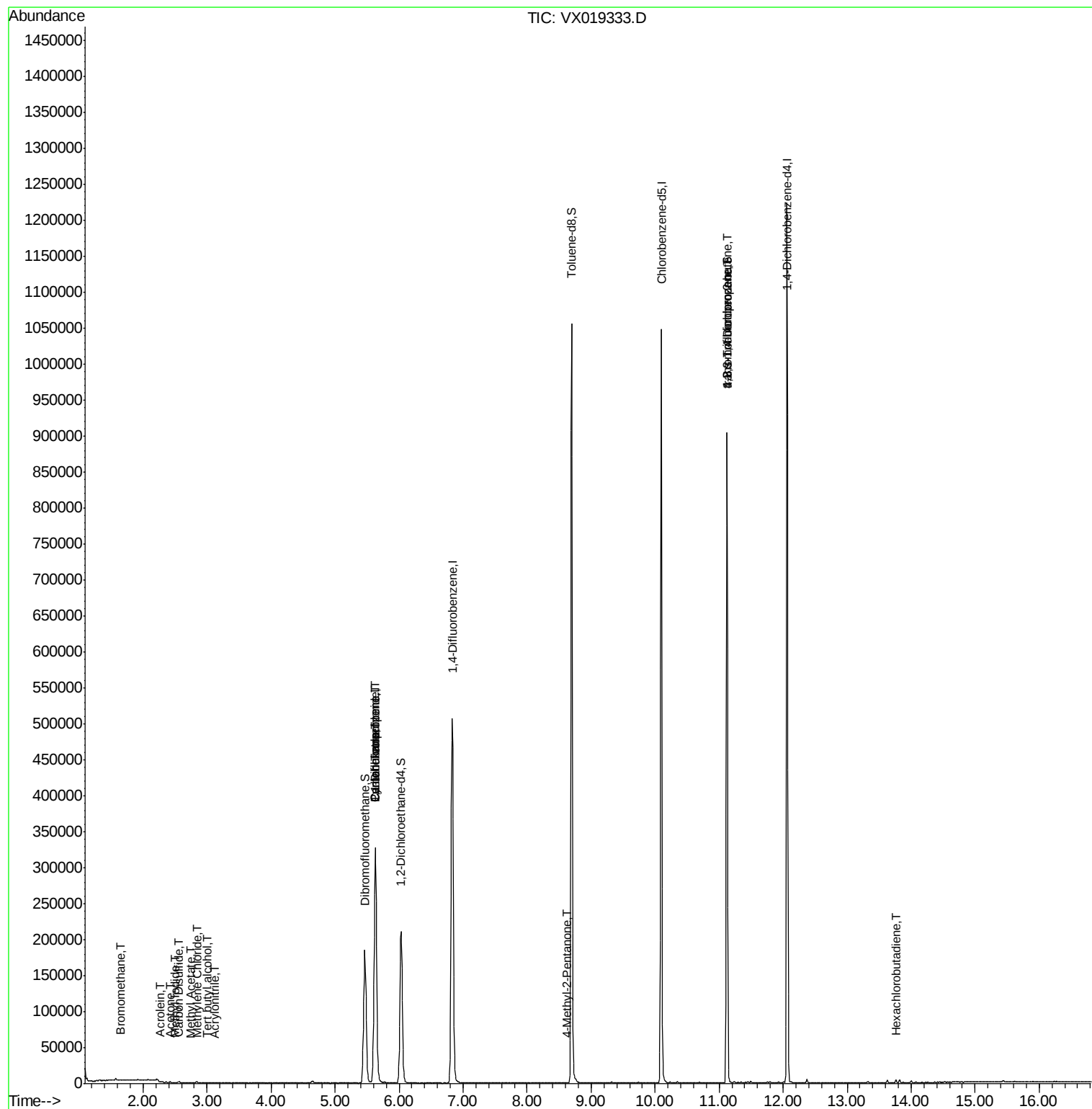
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
5) Bromomethane	1.64	94	465	0.209	ug/l	90
10) Methyl Iodide	2.50	142	655	6.549	ug/l #	98
11) Tert butyl alcohol	3.00	59	549	0.714	ug/l #	72
13) Acrolein	2.28	56	116	5.978	ug/l #	16
15) Acrylonitrile	3.11	53	505	0.312	ug/l	94
16) Acetone	2.42	43	861	0.641	ug/l #	76
17) Carbon Disulfide	2.56	76	1752	0.967	ug/l #	81
18) Methyl Acetate	2.75	43	706	0.216	ug/l #	59
20) Methylene Chloride	2.84	84	754	0.224	ug/l	90
31) Cyclohexane	5.62	56	6610	1.343	ug/l #	1
36) 1,1-Dichloropropene	5.62	75	25076	5.230	ug/l #	49
38) Carbon Tetrachloride	5.63	117	31303	6.405	ug/l #	17
51) 4-Methyl-2-Pentanone	8.62	43	946	0.221	ug/l #	32
76) 1,2,3-Trichloropropane	11.12	75	124397	25.235	ug/l #	37
81) trans-1,4-Dichloro-2-buten	11.12	75	124397	66.444	ug/l #	12
94) Hexachlorobutadiene	13.76	225	546	0.220	ug/l	87

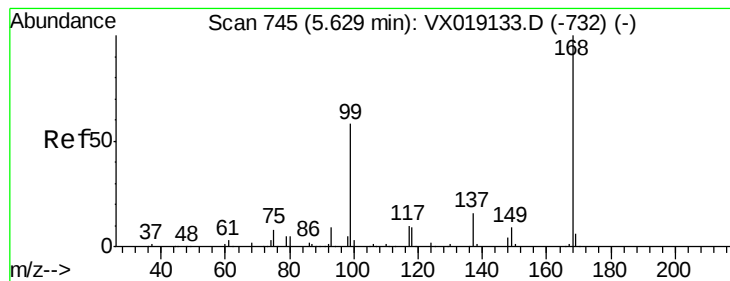
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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Quant Title : SW846 8260
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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: VX019333.D

Acq: 06 Nov 2020 11:59

Instrument :

MSVOA_X

ClientSampleId :

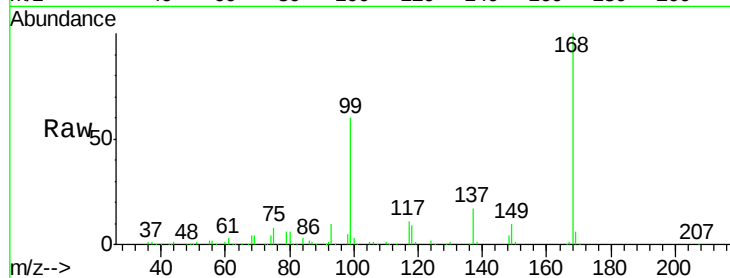
TB-11-5-2020

Tot Ion:168 Resp: 301988

Ion Ratio Lower Upper

168 100

99 60.0 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

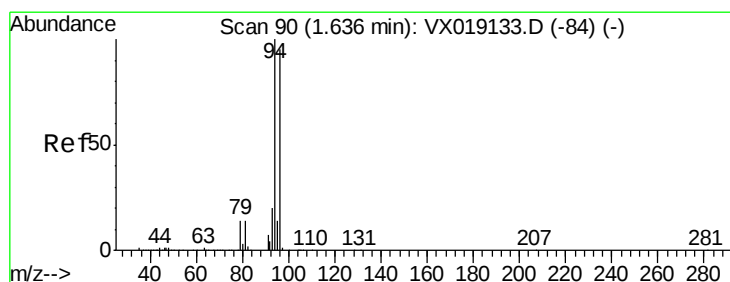
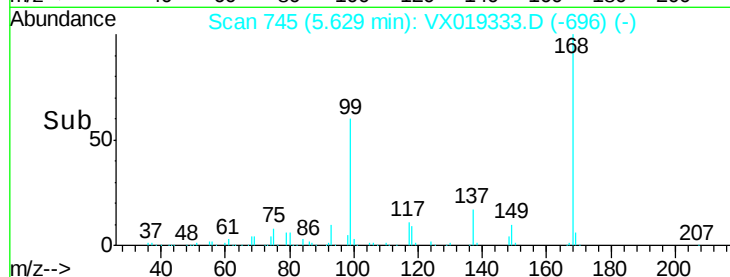
40000

20000

0

Time-->

5.50 5.60 5.70 5.80



#5

Bromomethane

Concen: 0.209 ug/l

RT: 1.64 min Scan# 91

Delta R.T. 0.01 min

Lab File: VX019333.D

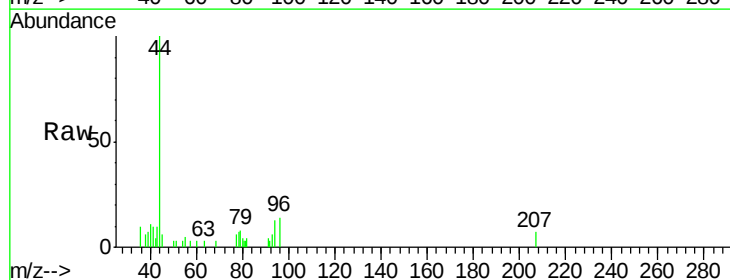
Acq: 06 Nov 2020 11:59

Tgt Ion: 94 Resp: 465

Ion Ratio Lower Upper

94 100

96 105.0 76.0 114.0



Abundance Ion 93.90 (93.60 to 94.60): VX0

Ion 95.90 (95.60 to 96.60): VX0

1.64

300

250

200

150

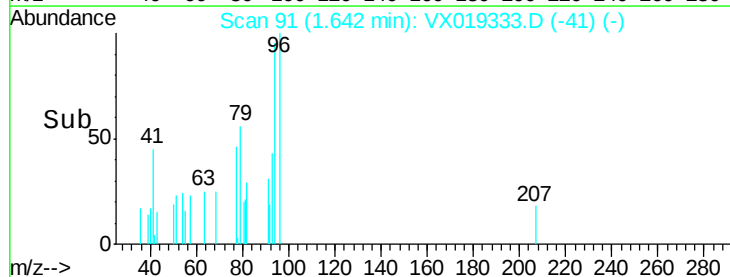
100

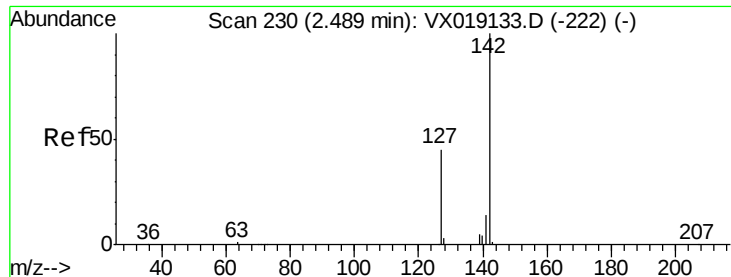
50

0

Time-->

1.60 1.65 1.70

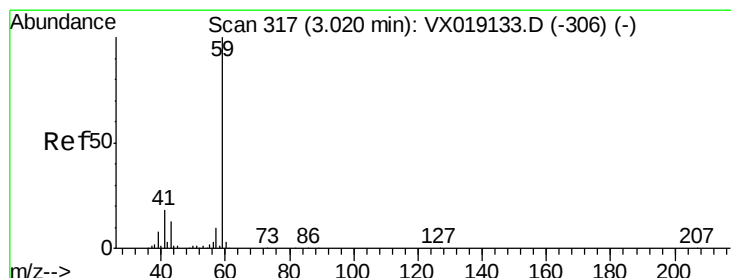
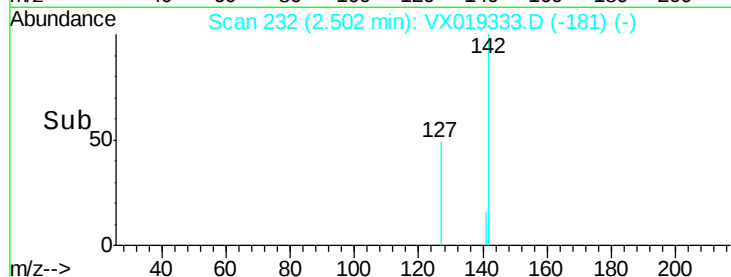
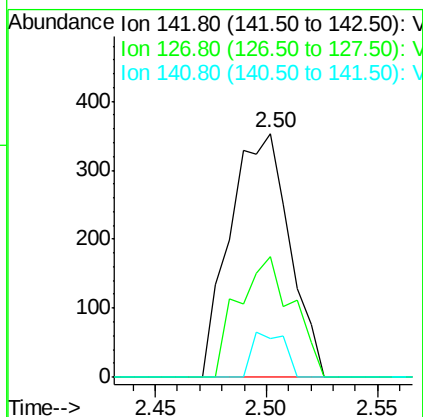
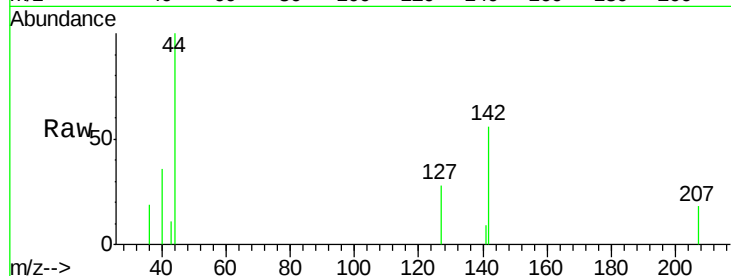




#10
Methyl Iodide
Concen: 6.549 ug/l
RT: 2.50 min Scan# 232
Delta R.T. 0.01 min
Lab File: VX019333.D
Acq: 06 Nov 2020 11:59

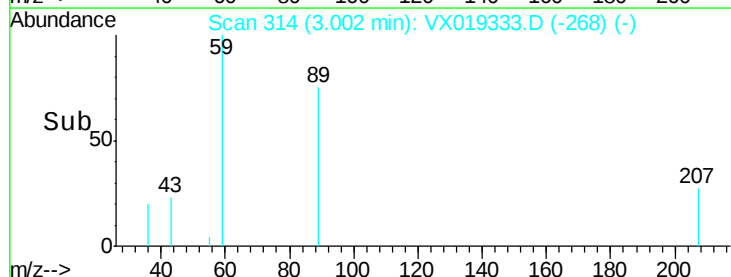
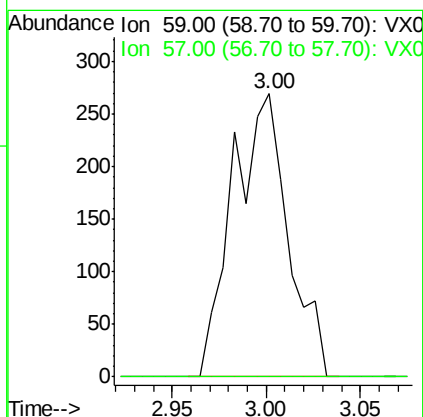
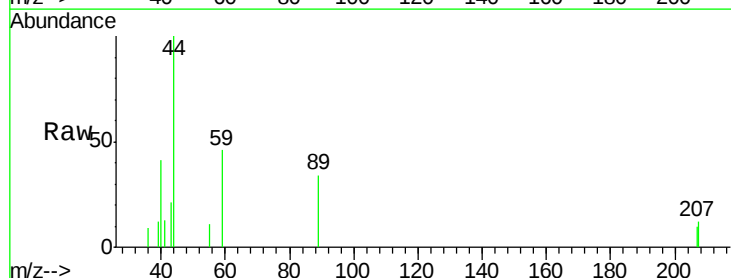
Instrument :
MSVOA_X
ClientSampleId :
TB-11-5-2020

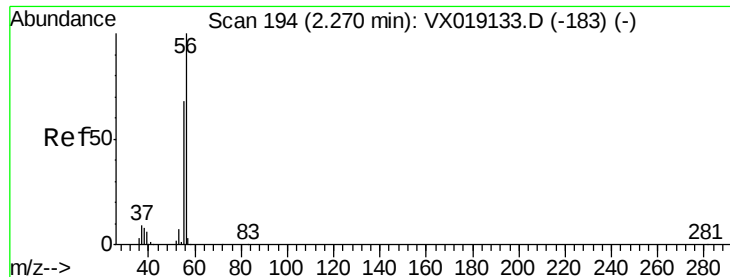
Tot Ion:142 Resp: 655
Ion Ratio Lower Upper
142 100
127 45.0 36.1 54.1
141 10.1 11.3 16.9#



#11
Tert butyl alcohol
Concen: 0.714 ug/l
RT: 3.00 min Scan# 314
Delta R.T. -0.02 min
Lab File: VX019333.D
Acq: 06 Nov 2020 11:59

Tgt Ion: 59 Resp: 549
Ion Ratio Lower Upper
59 100
57 0.0 8.4 12.6#





#13

Acrolein

Concen: 5.978 ug/l

RT: 2.28 min Scan# 195

Delta R.T. 0.01 min

Lab File: VX019333.D

Acq: 06 Nov 2020 11:59

Instrument :

MSVOA_X

ClientSampleId :

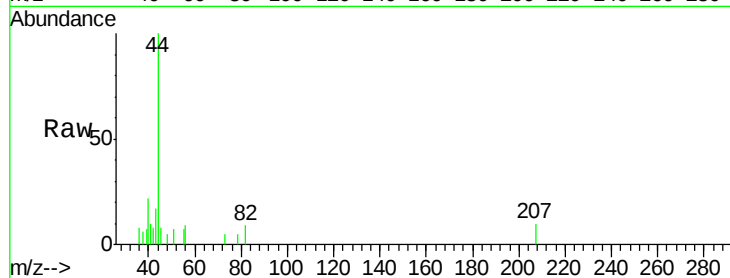
TB-11-5-2020

Tot Ion: 56 Resp: 116

Ion Ratio Lower Upper

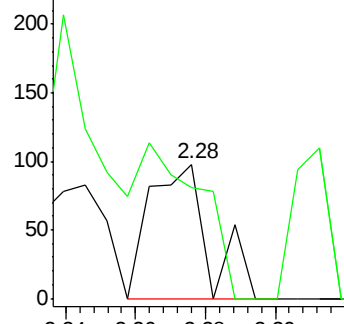
56 100

55 0.0 54.7 82.1#

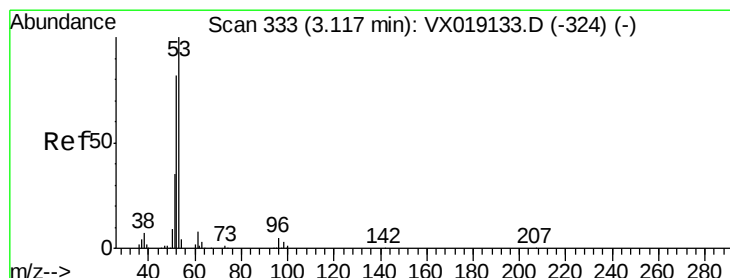
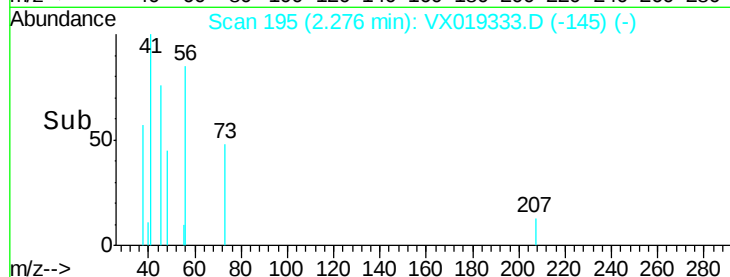


Abundance Ion 56.00 (55.70 to 56.70): VX0

Ion 55.00 (54.70 to 55.70): VX0



Time-->



#15

Acrylonitrile

Concen: 0.312 ug/l

RT: 3.11 min Scan# 332

Delta R.T. -0.01 min

Lab File: VX019333.D

Acq: 06 Nov 2020 11:59

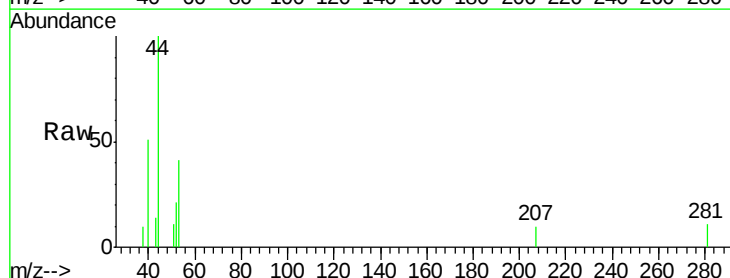
Tgt Ion: 53 Resp: 505

Ion Ratio Lower Upper

53 100

52 79.0 65.7 98.5

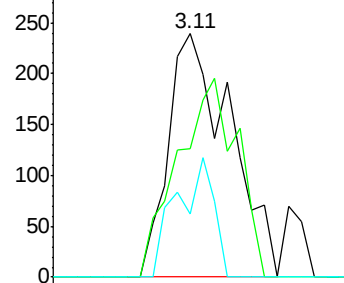
51 29.3 28.4 42.6



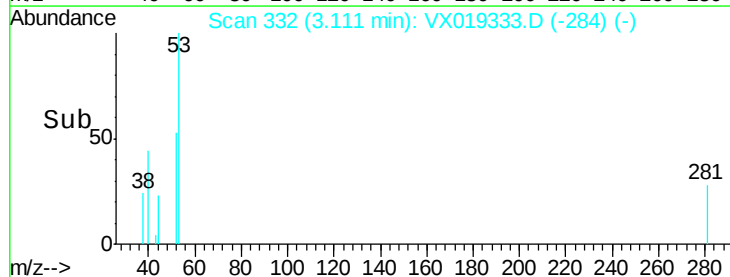
Abundance Ion 53.00 (52.70 to 53.70): VX0

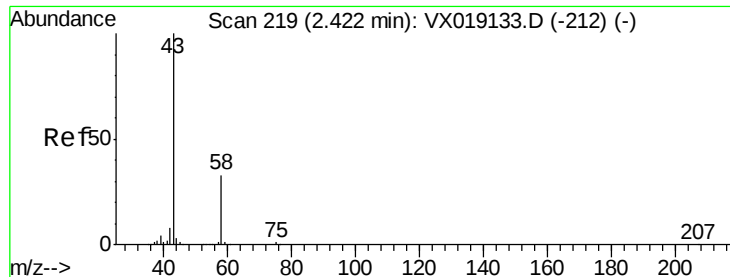
Ion 52.00 (51.70 to 52.70): VX0

Ion 51.00 (50.70 to 51.70): VX0



Time-->





#16

Acetone

Concen: 0.641 ug/l

RT: 2.42 min Scan# 219

Delta R.T. 0.00 min

Lab File: VX019333.D

Acq: 06 Nov 2020 11:59

Instrument :

MSVOA_X

ClientSampleId :

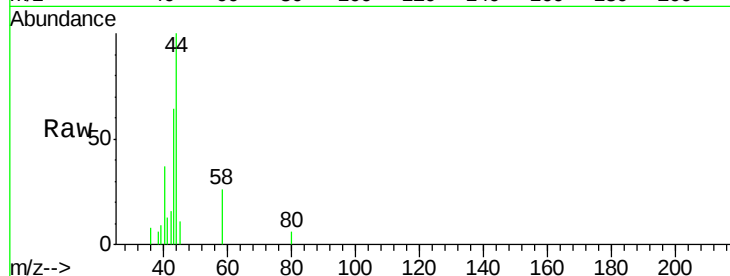
TB-11-5-2020

Tot Ion: 43 Resp: 861

Ion Ratio Lower Upper

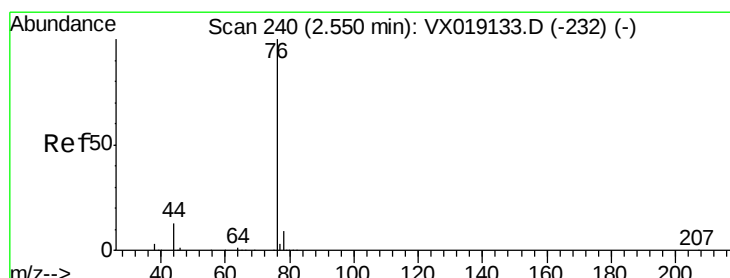
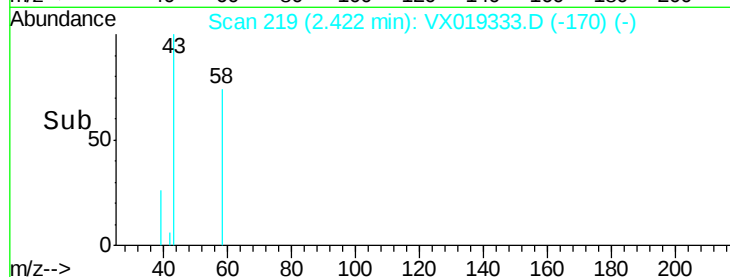
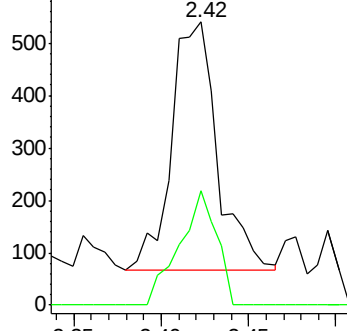
43 100

58 46.2 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: 0.967 ug/l

RT: 2.56 min Scan# 241

Delta R.T. 0.01 min

Lab File: VX019333.D

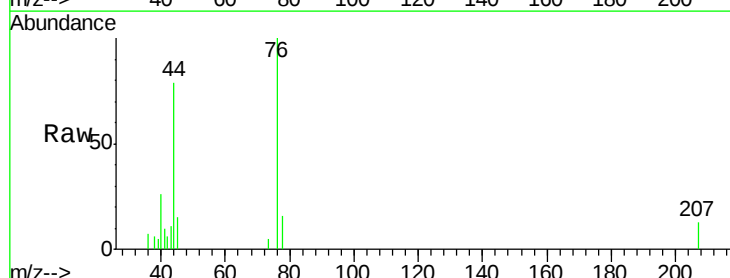
Acq: 06 Nov 2020 11:59

Tgt Ion: 76 Resp: 1752

Ion Ratio Lower Upper

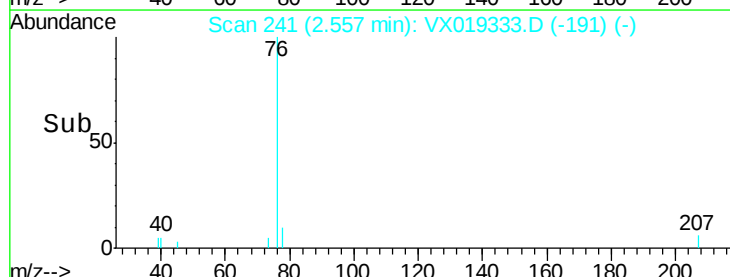
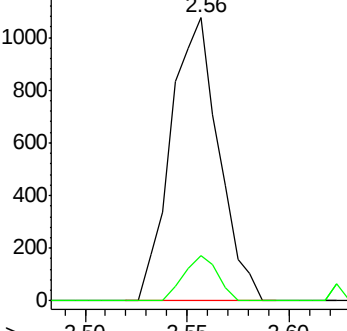
76 100

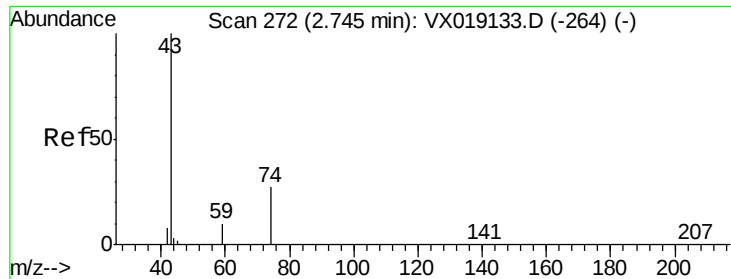
78 16.1 7.3 10.9#



Abundance Ion 75.90 (75.60 to 76.60): VX0

Ion 77.90 (77.60 to 78.60): VX0

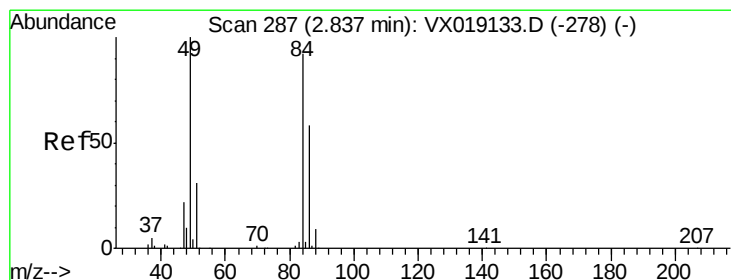
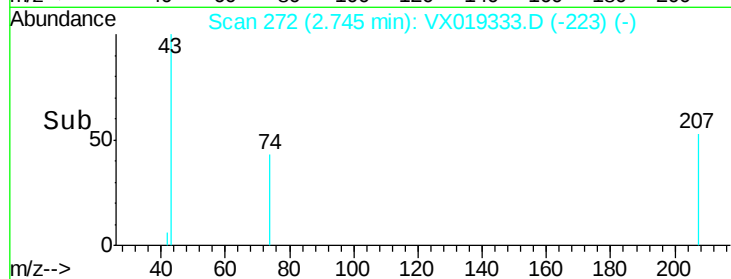
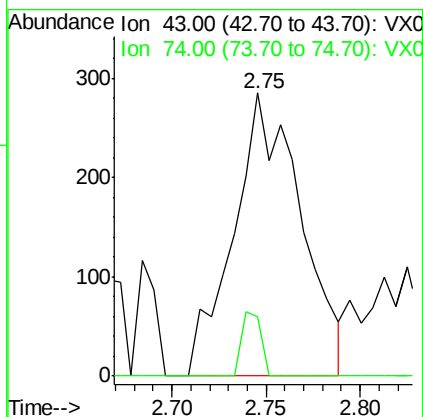
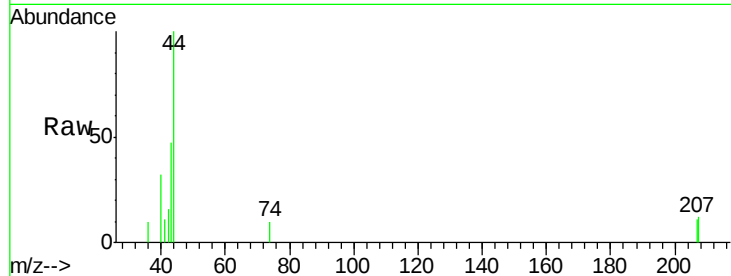




#18
Methyl Acetate
Concen: 0.216 ug/l
RT: 2.75 min Scan# 272
Delta R.T. 0.00 min
Lab File: VX019333.D
Acq: 06 Nov 2020 11:59

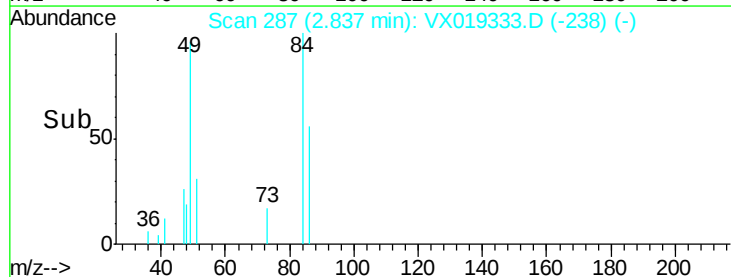
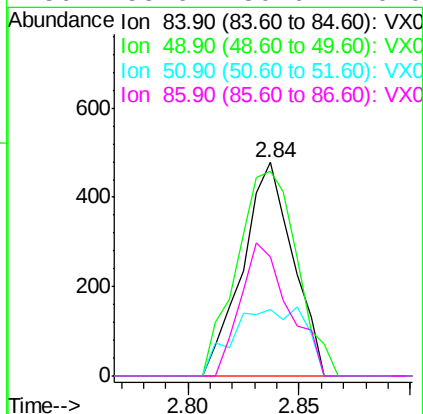
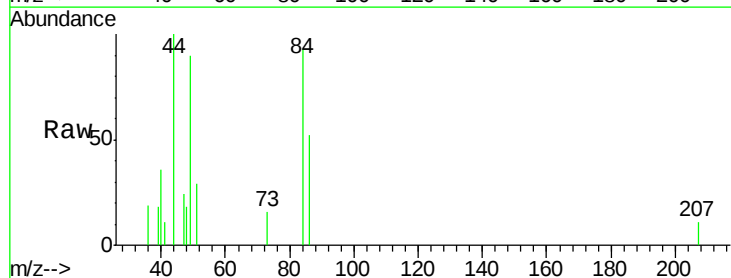
Instrument :
MSVOA_X
ClientSampled :
TB-11-5-2020

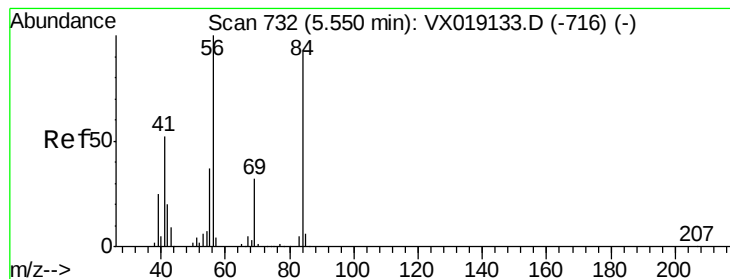
Tot Ion: 43 Resp: 706
Ion Ratio Lower Upper
43 100
74 6.4 22.6 33.8#



#20
Methylene Chloride
Concen: 0.224 ug/l
RT: 2.84 min Scan# 287
Delta R.T. 0.00 min
Lab File: VX019333.D
Acq: 06 Nov 2020 11:59

Tgt Ion: 84 Resp: 754
Ion Ratio Lower Upper
84 100
49 96.2 86.8 130.2
51 31.0 27.3 40.9
86 55.6 50.6 76.0





#31

Cyclohexane

Concen: 1.343 ug/l

RT: 5.62 min Scan# 744

Delta R.T. 0.07 min

Lab File: VX019333.D

Acq: 06 Nov 2020 11:59

Instrument :

MSVOA_X

ClientSampled :

TB-11-5-2020

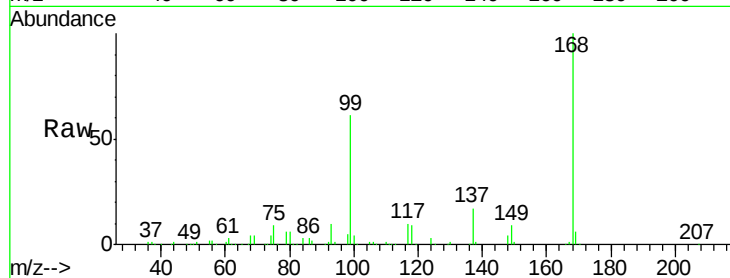
Tot Ion: 56 Resp: 6610

Ion Ratio Lower Upper

56 100

69 182.7 25.9 38.9#

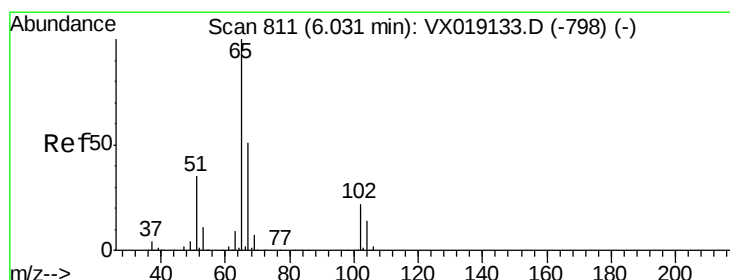
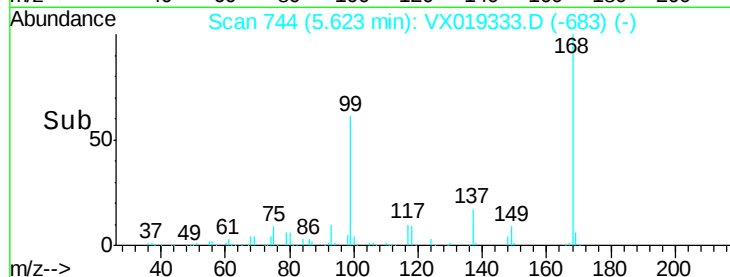
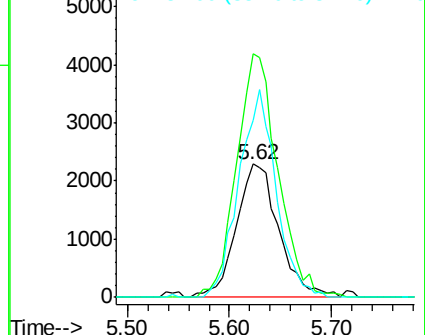
84 133.1 73.4 110.2#



Abundance Ion 56.00 (55.70 to 56.70): VX0

Ion 69.00 (68.70 to 69.70): VX0

Ion 84.00 (83.70 to 84.70): VX0



#33

1,2-Dichloroethane-d4

Concen: 52.569 ug/l

RT: 6.03 min Scan# 811

Delta R.T. 0.00 min

Lab File: VX019333.D

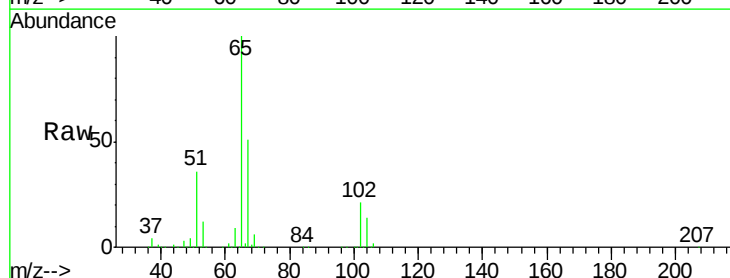
Acq: 06 Nov 2020 11:59

Tgt Ion: 65 Resp: 204731

Ion Ratio Lower Upper

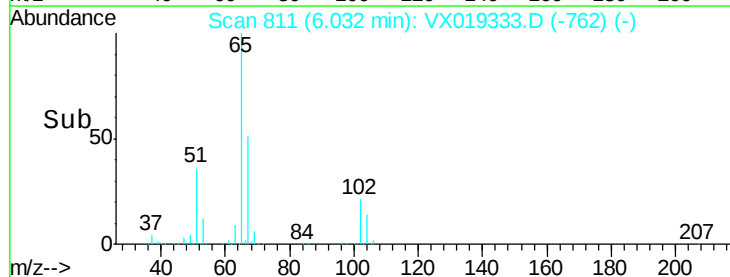
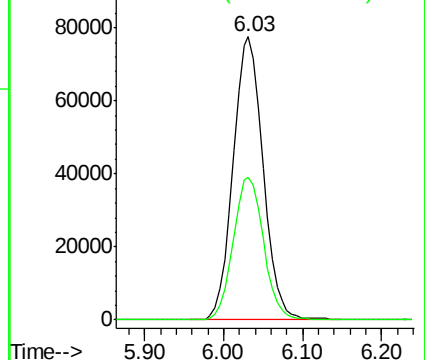
65 100

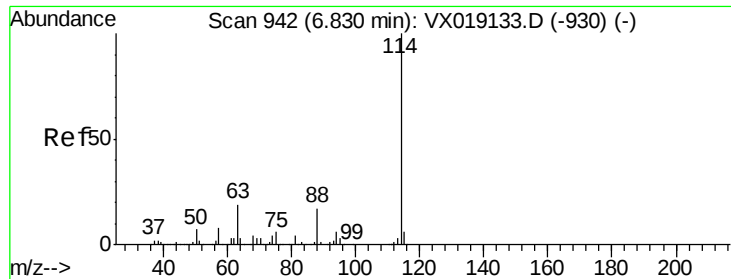
67 51.2 0.0 103.0



Abundance Ion 64.90 (64.60 to 65.60): VX0

Ion 66.90 (66.60 to 67.60): VX0





#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 6.83 min Scan# 942

Delta R.T. 0.00 min

Lab File: VX019333.D

Acq: 06 Nov 2020 11:59

Instrument :

MSVOA_X

ClientSampleId :

TB-11-5-2020

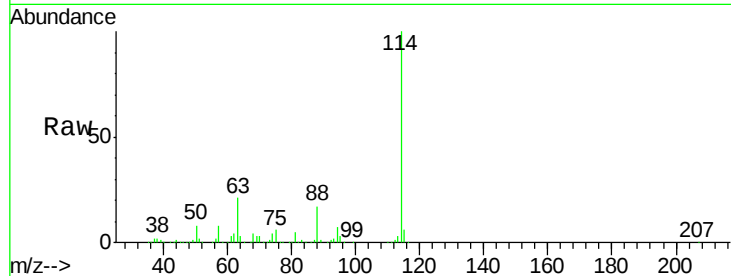
Tot Ion:114 Resp: 519265

Ion Ratio Lower Upper

114 100

63 20.7 0.0 38.8

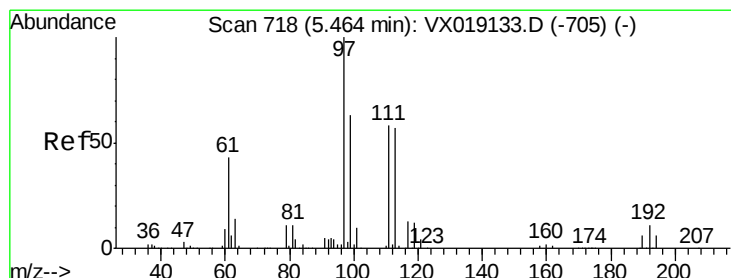
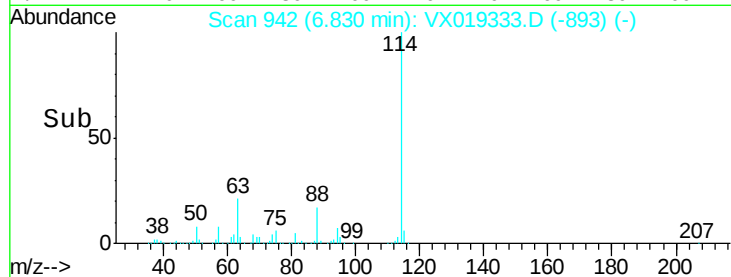
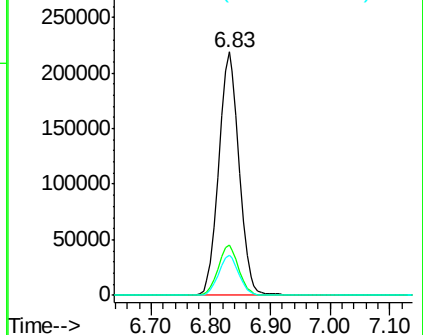
88 16.5 0.0 34.2



Abundance Ion 113.90 (113.60 to 114.60): V

Ion 63.00 (62.70 to 63.70): VX0

Ion 87.90 (87.60 to 88.60): VX0



#35

Dibromofluoromethane

Concen: 49.364 ug/l

RT: 5.46 min Scan# 718

Delta R.T. 0.00 min

Lab File: VX019333.D

Acq: 06 Nov 2020 11:59

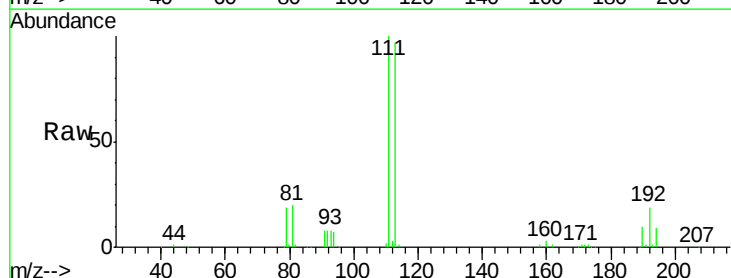
Tgt Ion:113 Resp: 161009

Ion Ratio Lower Upper

113 100

111 103.3 82.3 123.5

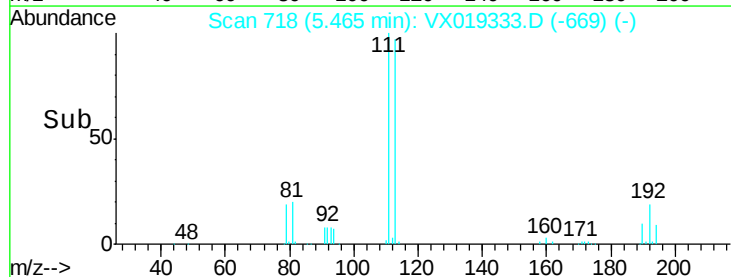
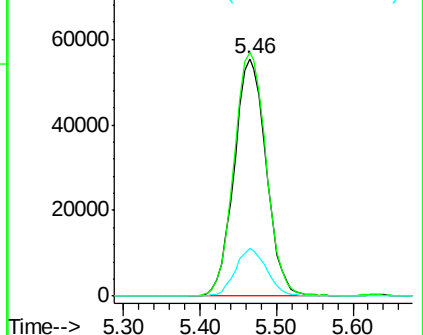
192 19.7 16.2 24.2

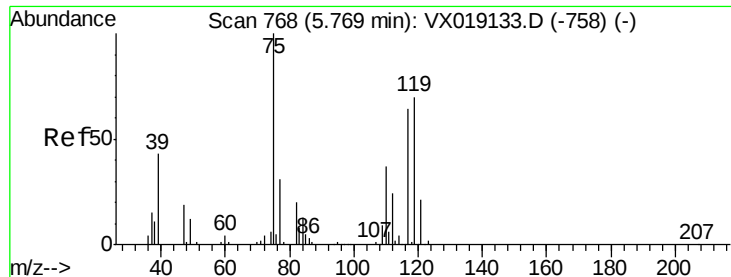


Abundance Ion 112.80 (112.50 to 113.50): V

Ion 110.80 (110.50 to 111.50): V

Ion 191.70 (191.40 to 192.40): V

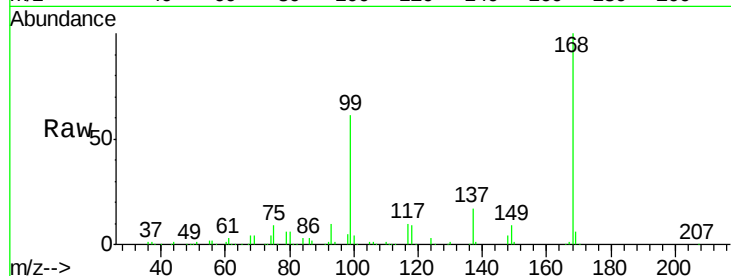




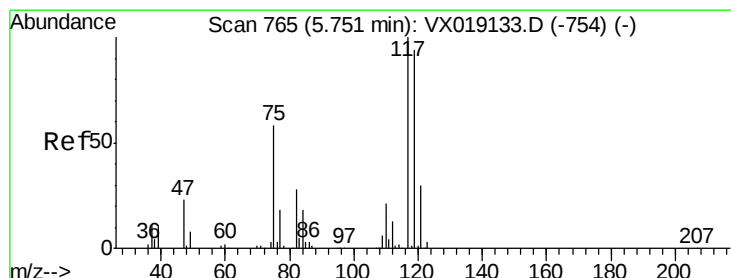
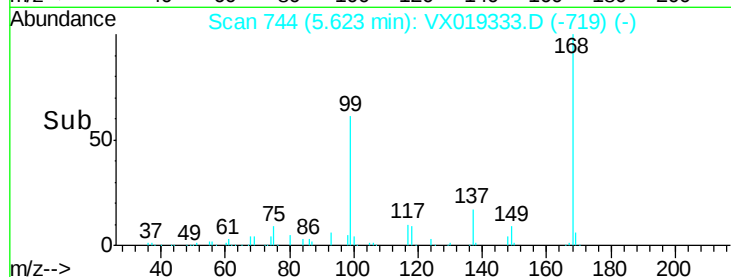
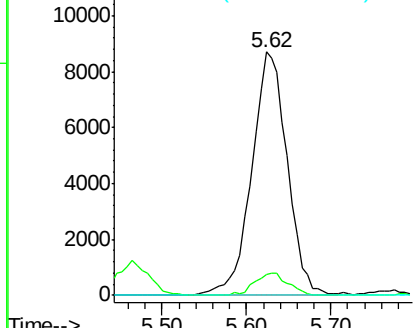
#36
 1,1-Dichloropropene
 Concen: 5.230 ug/l
 RT: 5.62 min Scan# 744
 Delta R.T. -0.15 min
 Lab File: VX019333.D
 Acq: 06 Nov 2020 11:59

Instrument :
 MSVOA_X
 ClientSampleId :
 TB-11-5-2020

Tot Ion: 75 Resp: 25076
 Ion Ratio Lower Upper
 75 100
 110 8.6 18.3 54.9#
 77 0.0 24.9 37.3#

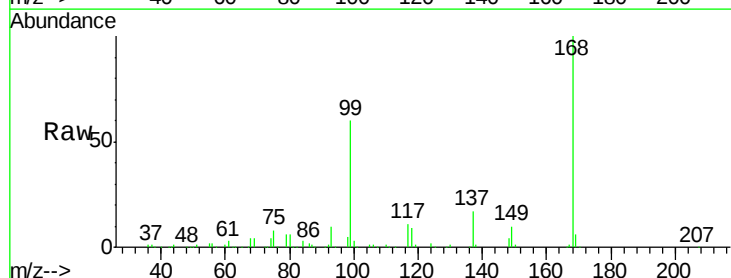


Abundance Ion 74.90 (74.60 to 75.60): VX0
 Ion 109.90 (109.60 to 110.60): V
 Ion 76.90 (76.60 to 77.60): VX0

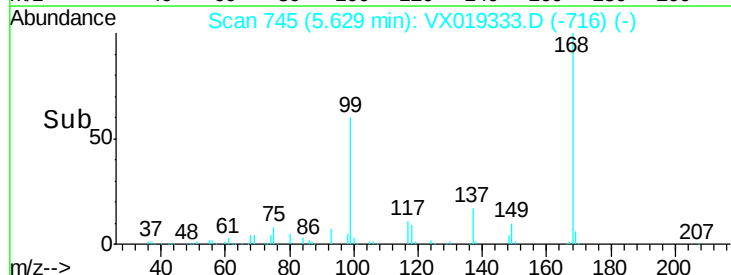
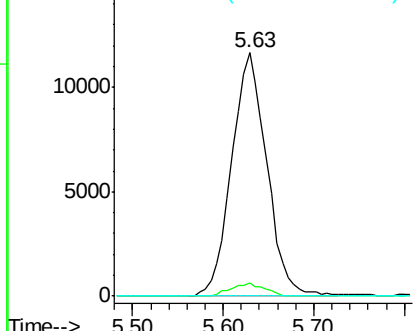


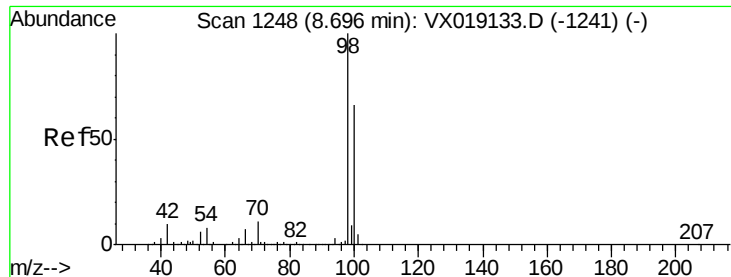
#38
 Carbon Tetrachloride
 Concen: 6.405 ug/l
 RT: 5.63 min Scan# 745
 Delta R.T. -0.12 min
 Lab File: VX019333.D
 Acq: 06 Nov 2020 11:59

Tgt Ion: 117 Resp: 31303
 Ion Ratio Lower Upper
 117 100
 119 5.5 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: 51.002 ug/l

RT: 8.70 min Scan# 1248

Delta R.T. 0.00 min

Lab File: VX019333.D

Acq: 06 Nov 2020 11:59

Instrument :

MSVOA_X

ClientSampleId :

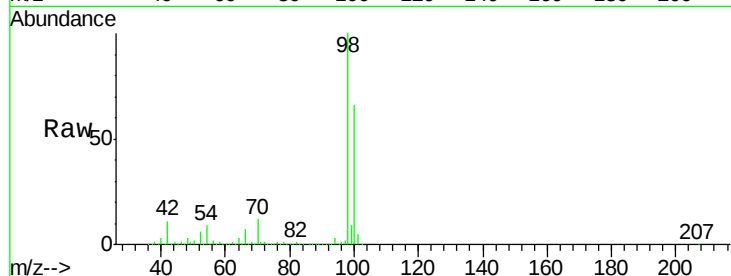
TB-11-5-2020

Tot Ion: 98 Resp: 627095

Ion Ratio Lower Upper

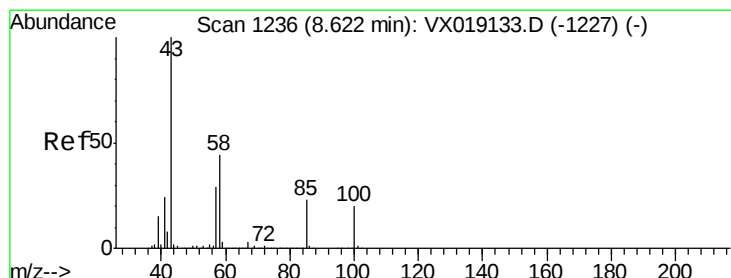
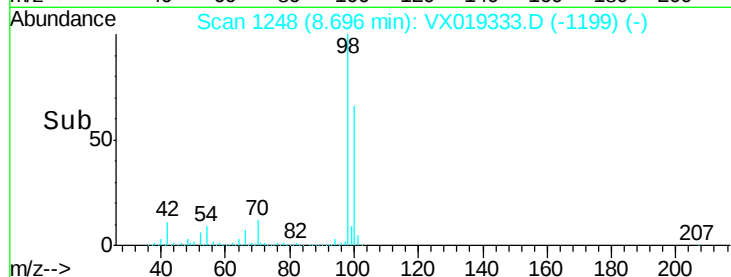
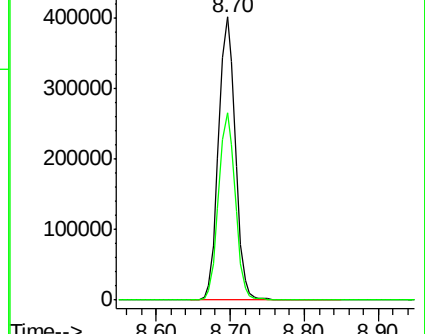
98 100

100 65.7 53.0 79.6



Abundance Ion 98.00 (97.70 to 98.70): VX0

Ion 100.00 (99.70 to 100.70): VX0



#51

4-Methyl-2-Pentanone

Concen: 0.221 ug/l

RT: 8.62 min Scan# 1235

Delta R.T. -0.01 min

Lab File: VX019333.D

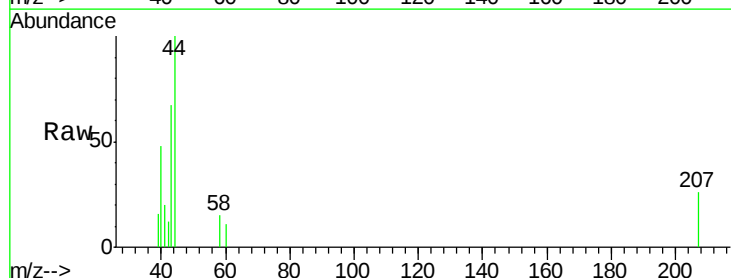
Acq: 06 Nov 2020 11:59

Tgt Ion: 43 Resp: 946

Ion Ratio Lower Upper

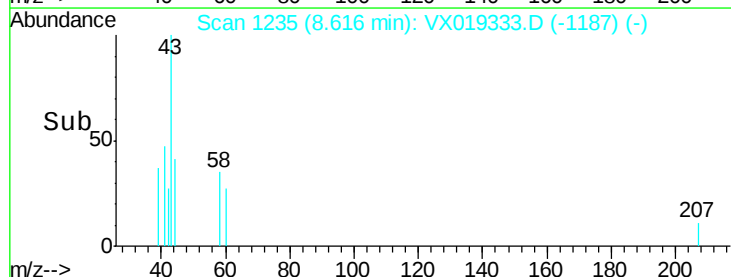
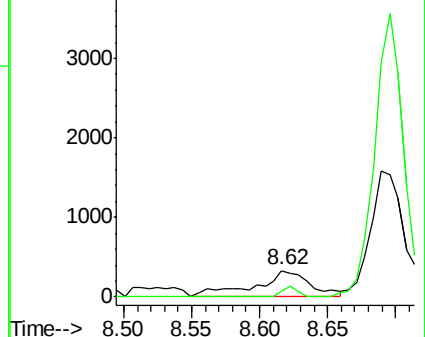
43 100

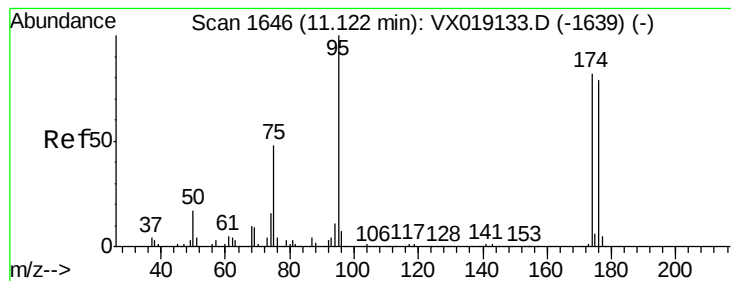
58 0.0 35.0 52.4#



Abundance Ion 43.00 (42.70 to 43.70): VX0

Ion 58.00 (57.70 to 58.70): VX0





#62

4-Bromofluorobenzene

Concen: 52.265 ug/l

RT: 11.12 min Scan# 1646

Delta R.T. 0.00 min

Lab File: VX019333.D

Acq: 06 Nov 2020 11:59

Instrument :

MSVOA_X

ClientSampled :

TB-11-5-2020

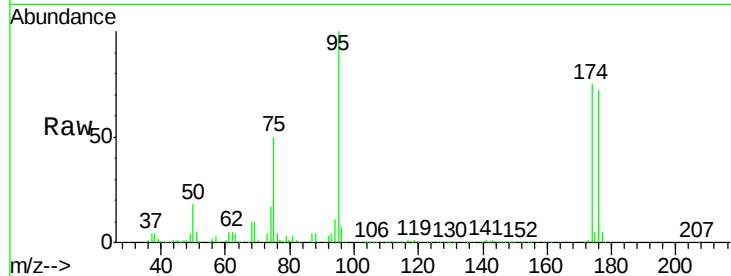
Tot Ion: 95 Resp: 243363

Ion Ratio Lower Upper

95 100

174 75.4 0.0 156.0

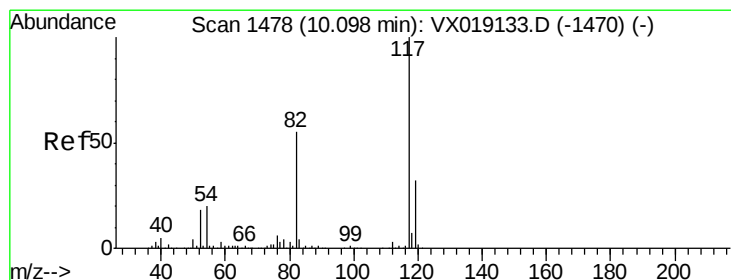
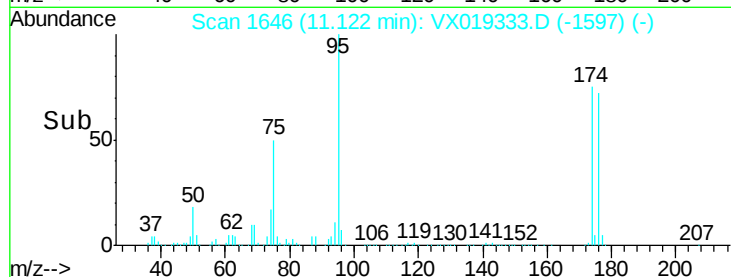
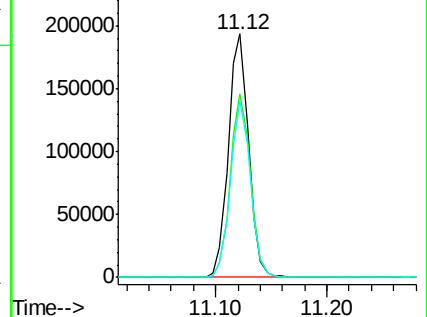
176 71.7 0.0 149.8



Abundance Ion 94.90 (94.60 to 95.60): VX019133.D (-1639) (-)

Ion 173.80 (173.50 to 174.50): VX019133.D (-1639) (-)

Ion 175.80 (175.50 to 176.50): VX019133.D (-1639) (-)



#63

Chlorobenzene-d5

Concen: 50.000 ug/l

RT: 10.10 min Scan# 1478

Delta R.T. 0.00 min

Lab File: VX019333.D

Acq: 06 Nov 2020 11:59

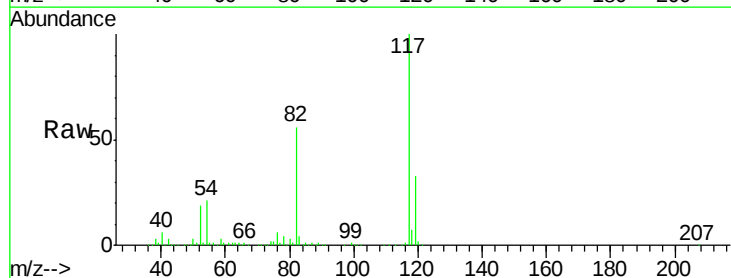
Tgt Ion: 117 Resp: 478991

Ion Ratio Lower Upper

117 100

82 56.0 43.6 65.4

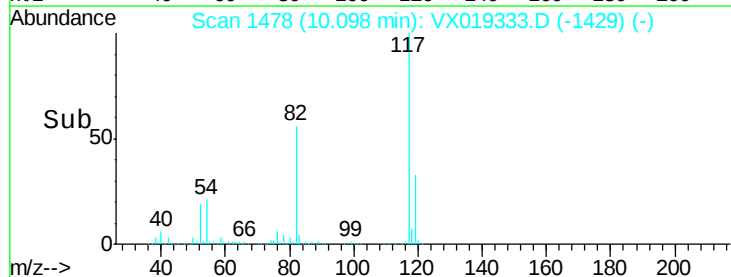
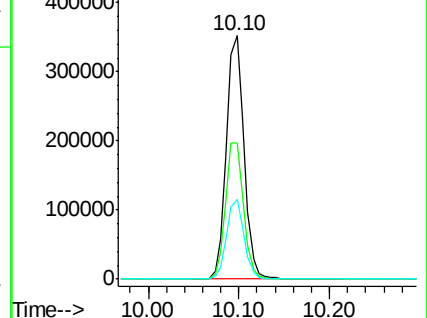
119 32.8 25.5 38.3

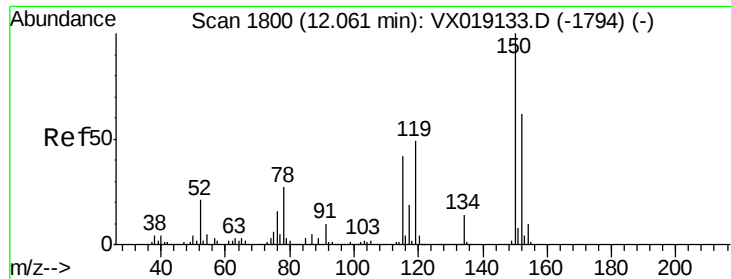


Abundance Ion 116.90 (116.60 to 117.60): VX019133.D (-1470) (-)

Ion 82.00 (81.70 to 82.70): VX019133.D (-1470) (-)

Ion 118.90 (118.60 to 119.60): VX019133.D (-1470) (-)





#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

RT: 12.06 min Scan# 1800

Delta R.T. 0.00 min

Lab File: VX019333.D

Acq: 06 Nov 2020 11:59

Instrument :

MSVOA_X

ClientSampleId :

TB-11-5-2020

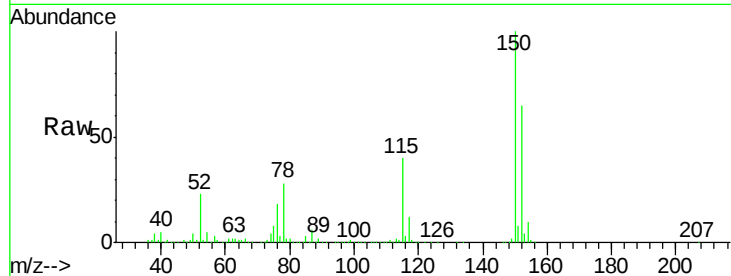
Tot Ion:152 Resp: 238740

Ion Ratio Lower Upper

152 100

115 62.1 41.9 125.7

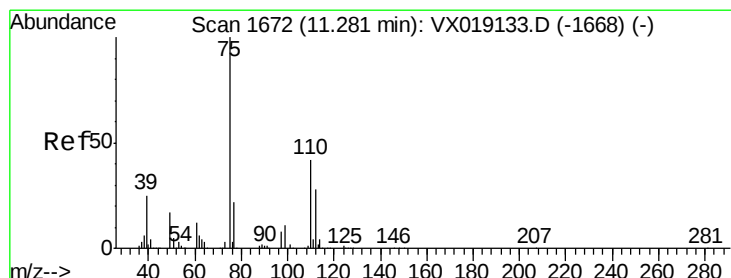
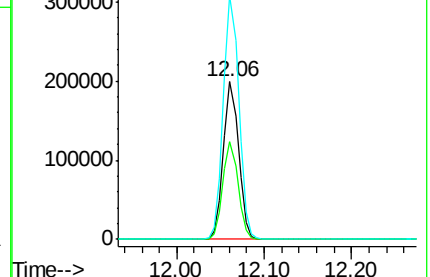
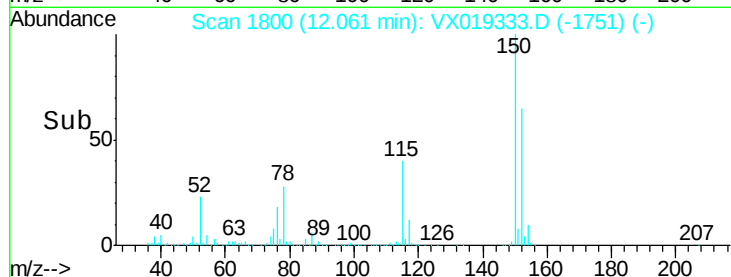
150 158.1 0.0 347.8



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: 25.235 ug/l

RT: 11.12 min Scan# 1646

Delta R.T. -0.16 min

Lab File: VX019333.D

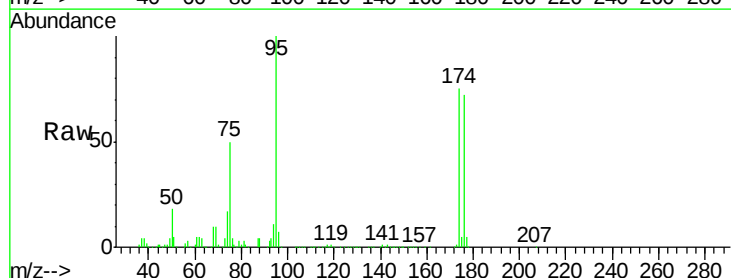
Acq: 06 Nov 2020 11:59

Tgt Ion: 75 Resp: 124397

Ion Ratio Lower Upper

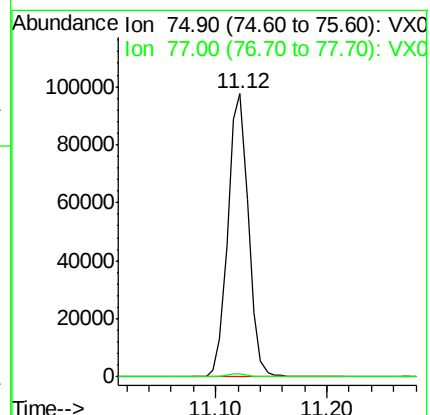
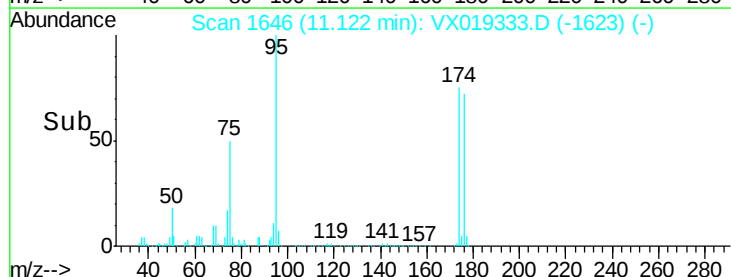
75 100

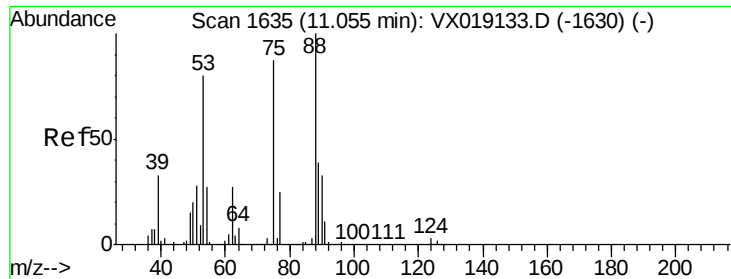
77 1.1 20.3 60.9#



Abundance Ion 74.90 (74.60 to 75.60): VX0

Ion 77.00 (76.70 to 77.70): VX0

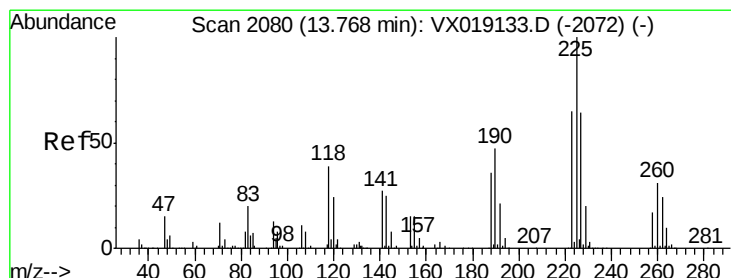
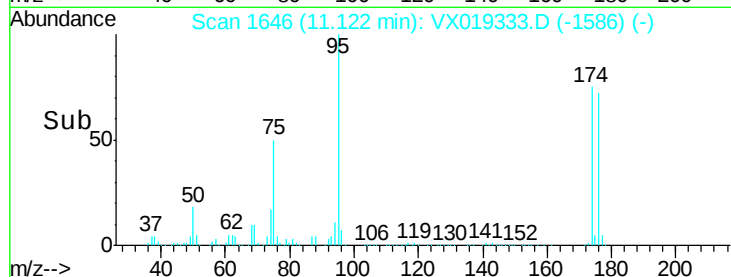
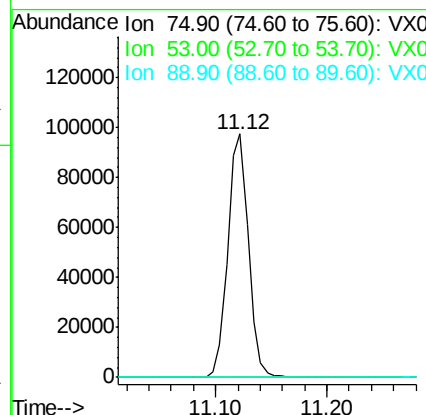
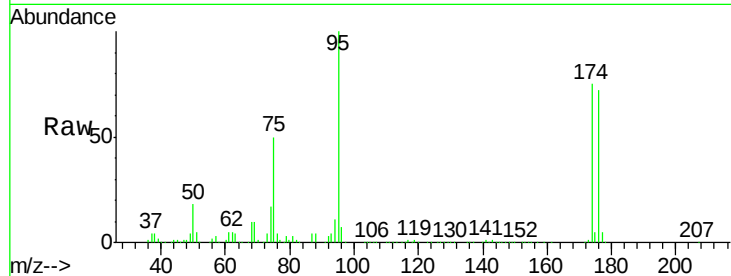




#81
trans-1,4-Dichloro-2-butene
Concen: 66.444 ug/l
RT: 11.12 min Scan# 1646
Delta R.T. 0.07 min
Lab File: VX019333.D
Acq: 06 Nov 2020 11:59

Instrument :
MSVOA_X
ClientSampleId :
TB-11-5-2020

Tot Ion: 75 Resp: 124397
Ion Ratio Lower Upper
75 100
53 0.0 73.3 109.9#
89 0.0 38.2 57.2#



#94
Hexachlorobutadiene
Concen: 0.220 ug/l
RT: 13.76 min Scan# 2079
Delta R.T. -0.01 min
Lab File: VX019333.D
Acq: 06 Nov 2020 11:59

Tgt Ion: 225 Resp: 546
Ion Ratio Lower Upper
225 100
223 65.6 32.4 97.2
227 83.3 31.6 94.7

