

Data Path : Z:\VOASRV\HPCHEM1\MSVOA X\DATA\VX120920\
 Data File : VX019776.D
 Acq On : 09 Dec 2020 14:14
 Operator : JC/MD
 Sample : L4966-03
 Misc : 5.0mL/MSVOA X/WATER
 ALS Vial : 9 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :
 239995-1-3

Quant Time: Dec 10 05:39:54 2020
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_X\METHOD\82X120420W.M
 Quant Title : SW846 8260
 QLast Update : Fri Dec 04 15:32:53 2020
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	5.63	168	336316	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	6.83	114	553010	50.00	ug/l	0.00
63) Chlorobenzene-d5	10.09	117	501535	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.06	152	225864	50.00	ug/l	0.00

System Monitoring Compounds

33) 1,2-Dichloroethane-d4	6.03	65	207675	46.98	ug/l	0.00
Spiked Amount	50.000	Range	61 - 141	Recovery	=	93.96%
35) Dibromofluoromethane	5.46	113	169395	47.40	ug/l	0.00
Spiked Amount	50.000	Range	69 - 133	Recovery	=	94.80%
50) Toluene-d8	8.70	98	667700	48.93	ug/l	0.00
Spiked Amount	50.000	Range	65 - 126	Recovery	=	97.86%
62) 4-Bromofluorobenzene	11.12	95	235946	45.43	ug/l	0.00
Spiked Amount	50.000	Range	58 - 135	Recovery	=	90.86%

Target Compounds

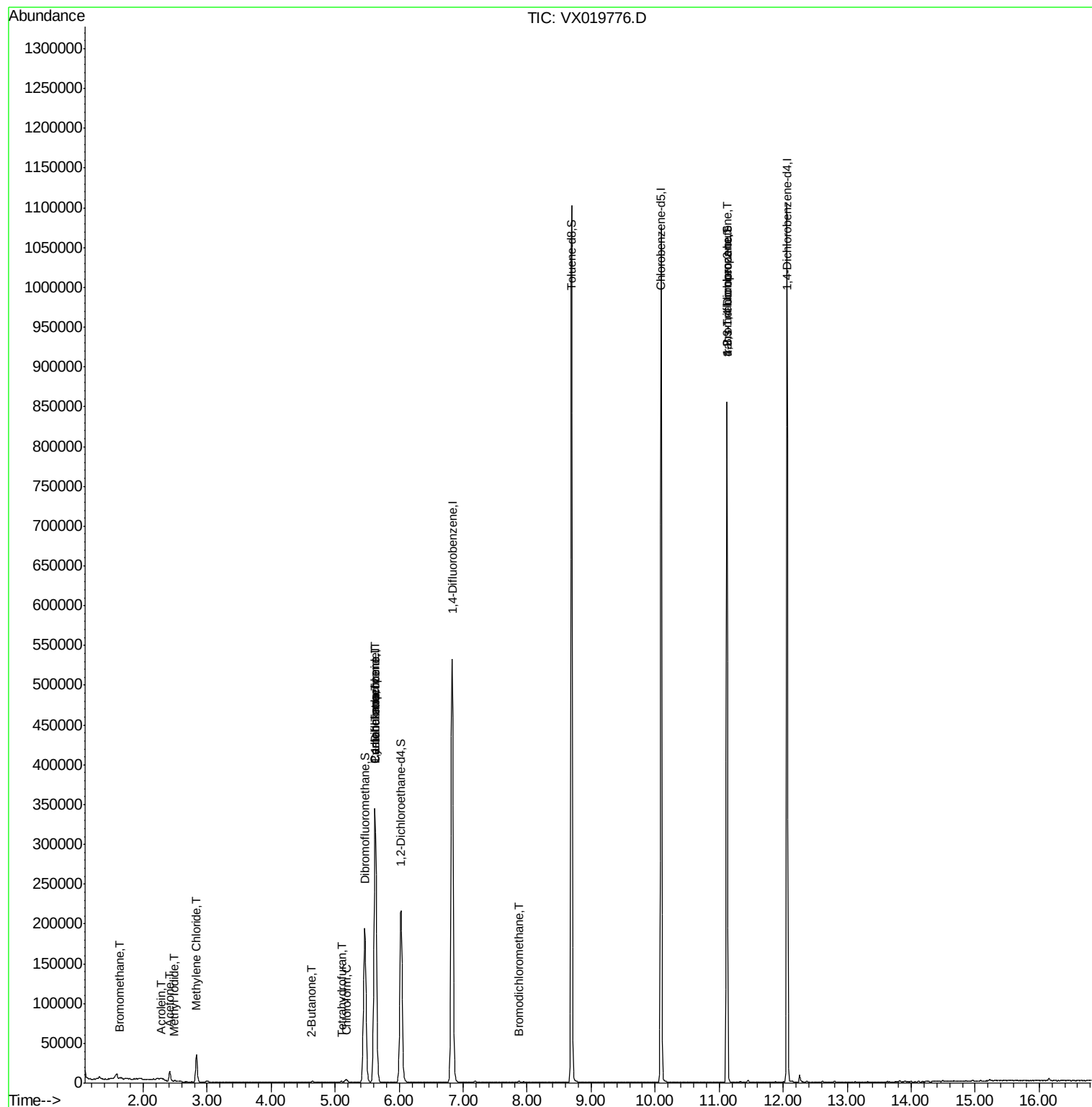
					Qvalue	
5) Bromomethane	1.64	94	861	0.679	ug/l	88
10) Methyl Iodide	2.50	142	1692	0.377	ug/l #	93
11) Tert butyl alcohol	2.99	59	1081	Below Cal	#	73
13) Acrolein	2.29	56	146	0.299	ug/l #	1
16) Acetone	2.42	43	12071	7.265	ug/l	99
20) Methylene Chloride	2.83	84	16726	3.075	ug/l	99
25) 2-Butanone	4.64	43	1199	0.470	ug/l #	84
29) Tetrahydrofuran	5.10	42	1169	0.711	ug/l #	87
30) Chloroform	5.17	83	4385	0.672	ug/l	93
31) Cyclohexane	5.62	56	6470	1.177	ug/l #	1
36) 1,1-Dichloropropene	5.63	75	25158	5.034	ug/l #	49
38) Carbon Tetrachloride	5.63	117	32826	6.708	ug/l #	17
47) Bromodichloromethane	7.87	83	1166	0.228	ug/l #	96
76) 1,2,3-Trichloropropane	11.12	75	113331	22.372	ug/l #	39
81) trans-1,4-Dichloro-2-buten	11.12	75	113331	64.674	ug/l #	12

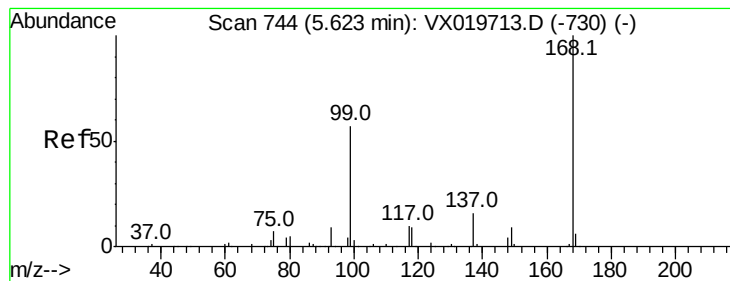
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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Quant Title : SW846 8260
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Response via : Initial Calibration





#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 5.63 min Scan# 745

Delta R.T. 0.01 min

Lab File: VX019776.D

Acq: 09 Dec 2020 14:14

Instrument :

MSVOA_X

ClientSampleId :

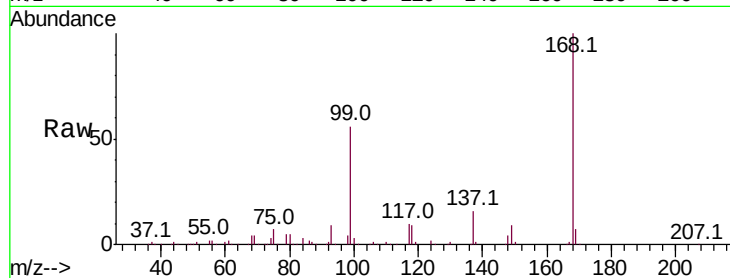
239995-1-3

Tot Ion:168 Resp: 336316

Ion Ratio Lower Upper

168 100

99 55.9 45.8 68.6



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VX0

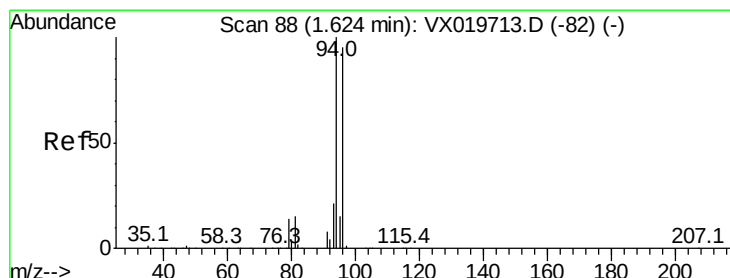
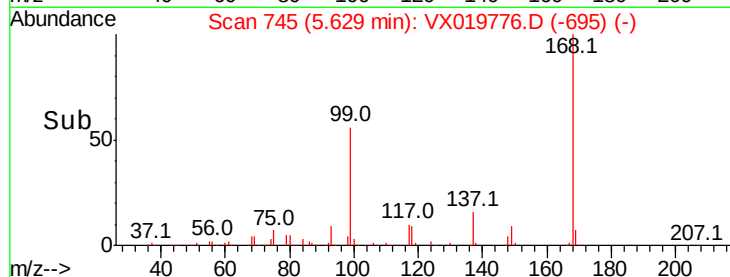
5.63

100000

50000

0

Time-->



#5

Bromomethane

Concen: 0.679 ug/l

RT: 1.64 min Scan# 90

Delta R.T. 0.01 min

Lab File: VX019776.D

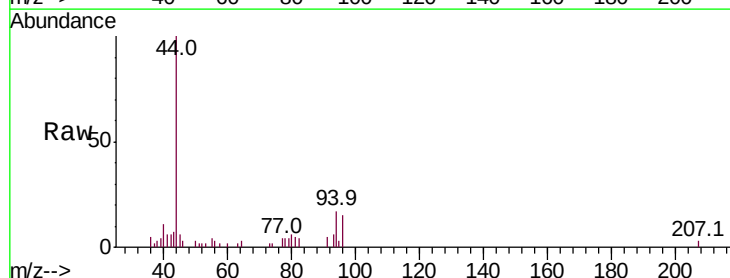
Acq: 09 Dec 2020 14:14

Tgt Ion: 94 Resp: 861

Ion Ratio Lower Upper

94 100

96 84.2 76.4 114.6



Abundance Ion 93.90 (93.60 to 94.60): VX0

Ion 95.90 (95.60 to 96.60): VX0

1.64

500

400

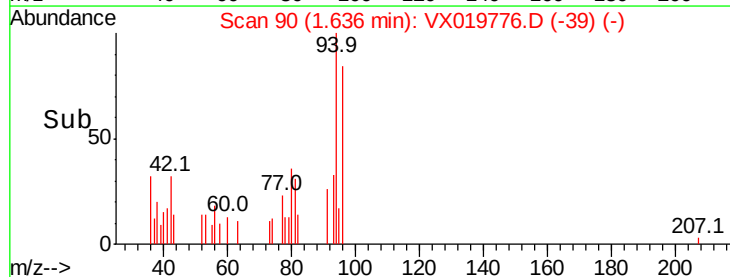
300

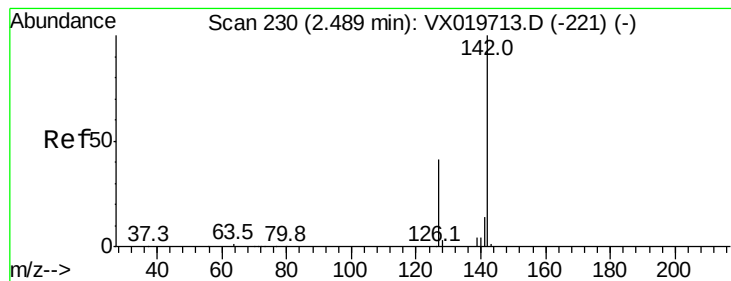
200

100

0

Time-->





#10

Methyl Iodide

Concen: 0.377 ug/l

RT: 2.50 min Scan# 231

Delta R.T. 0.01 min

Lab File: VX019776.D

Acq: 09 Dec 2020 14:14

Instrument :

MSVOA_X

ClientSampleId :

239995-1-3

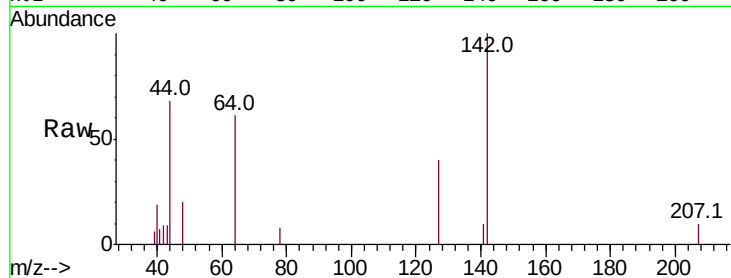
Tot Ion:142 Resp: 1692

Ion Ratio Lower Upper

142 100

127 37.3 33.3 49.9

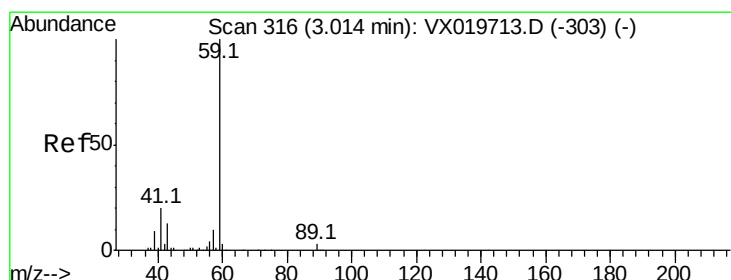
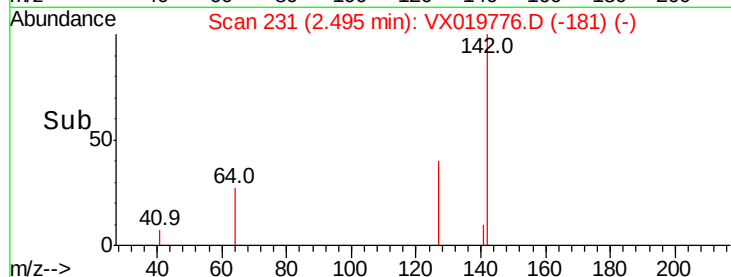
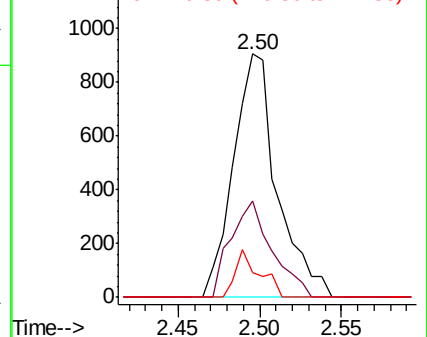
141 10.8 11.4 17.0#



Abundance Ion 141.80 (141.50 to 142.50): V

Ion 126.80 (126.50 to 127.50): V

Ion 140.80 (140.50 to 141.50): V



#11

Tert butyl alcohol

Concen: Below Cal

RT: 2.99 min Scan# 312

Delta R.T. -0.02 min

Lab File: VX019776.D

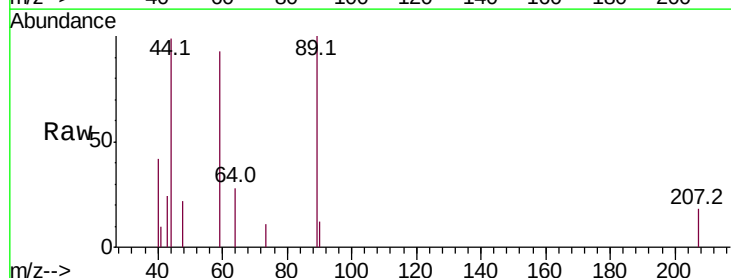
Acq: 09 Dec 2020 14:14

Tgt Ion: 59 Resp: 1081

Ion Ratio Lower Upper

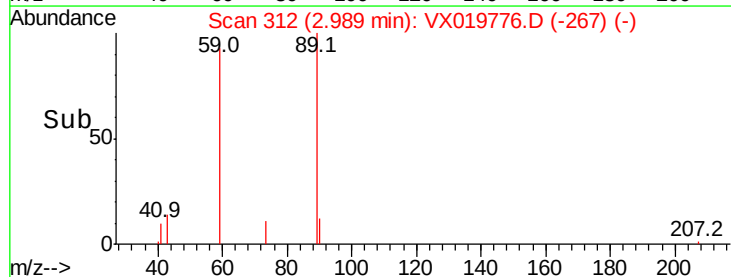
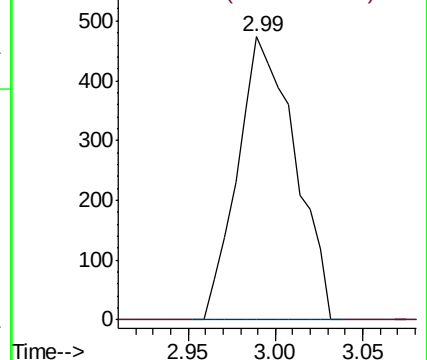
59 100

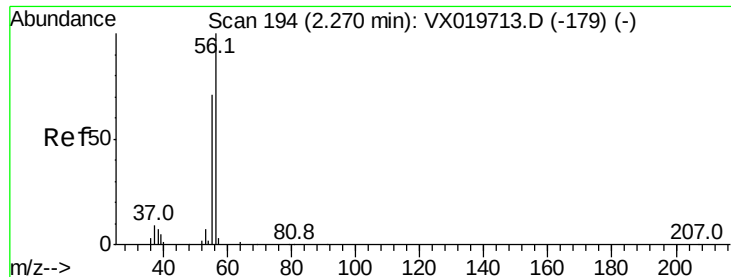
57 0.0 7.8 11.8#



Abundance Ion 59.00 (58.70 to 59.70): VX0

Ion 57.00 (56.70 to 57.70): VX0





#13

Acrolein

Concen: 0.299 ug/l

RT: 2.29 min Scan# 197

Delta R.T. 0.02 min

Lab File: VX019776.D

Acq: 09 Dec 2020 14:14

Instrument :

MSVOA_X

ClientSampleId :

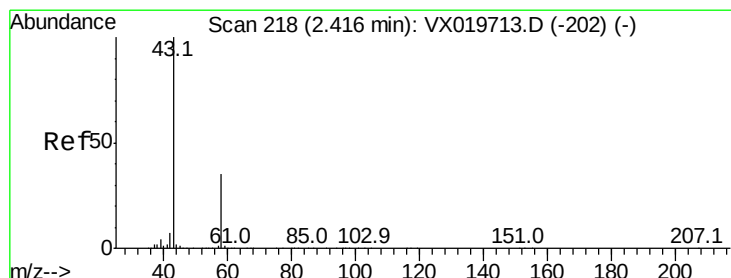
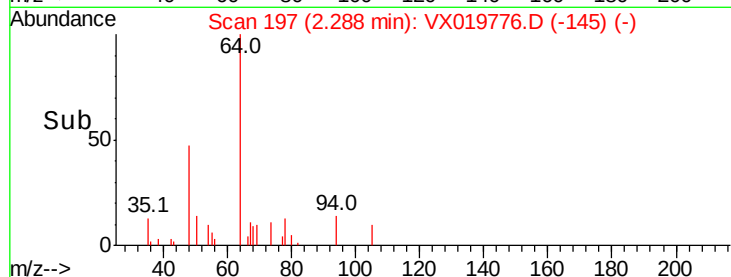
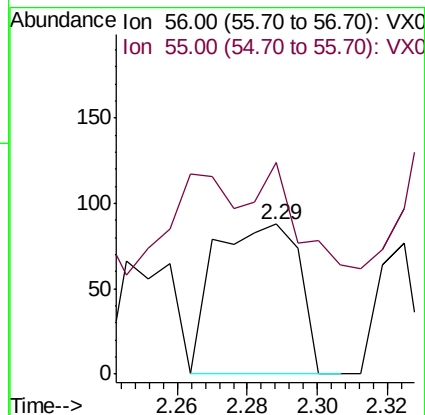
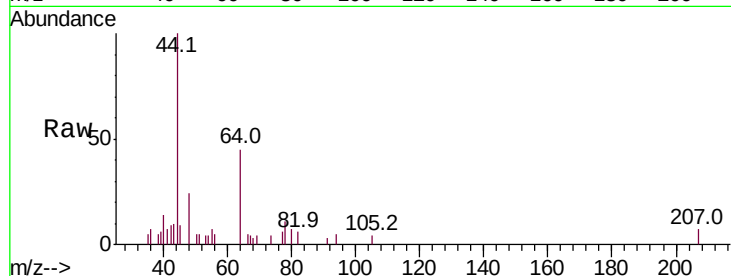
239995-1-3

Tot Ion: 56 Resp: 146

Ion Ratio Lower Upper

56 100

55 191.1 56.4 84.6#



#16

Acetone

Concen: 7.265 ug/l

RT: 2.42 min Scan# 218

Delta R.T. 0.00 min

Lab File: VX019776.D

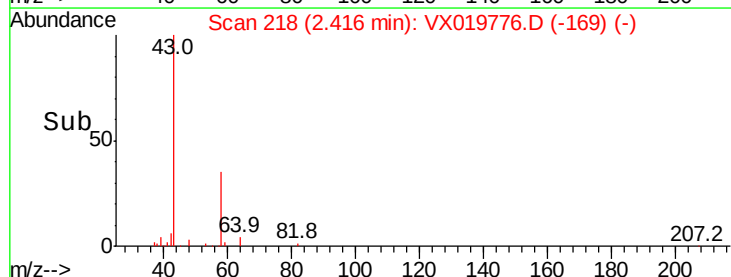
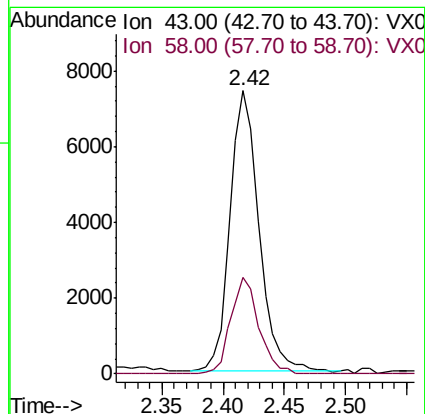
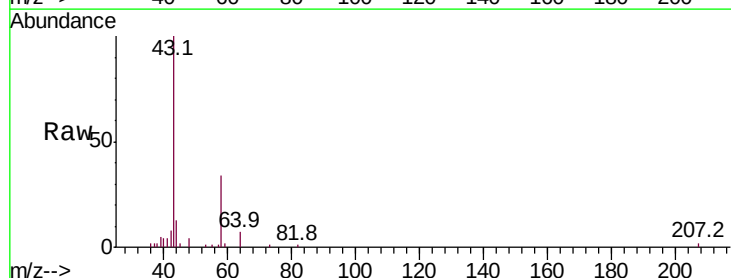
Acq: 09 Dec 2020 14:14

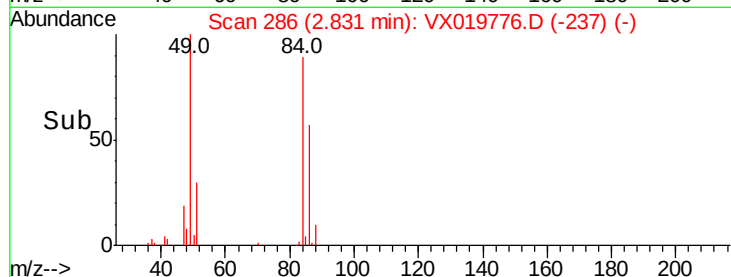
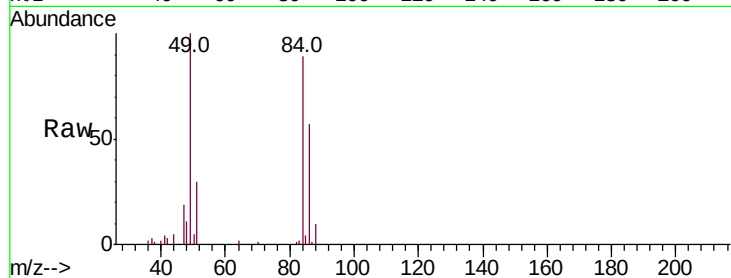
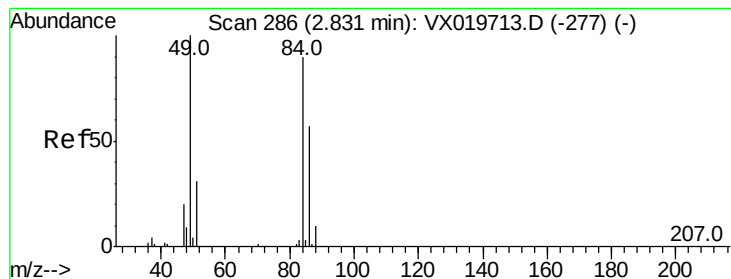
Tgt Ion: 43 Resp: 12071

Ion Ratio Lower Upper

43 100

58 34.3 27.8 41.8





#20

Methvlene Chloride

Concen: 3.075 ug/l

RT: 2.83 min Scan# 286

Delta R.T. 0.00 min

Lab File: VX019776.D

Acq: 09 Dec 2020 14:14

Instrument :

MSVOA_X

ClientSampleId :

239995-1-3

Tot Ion: 84 Resp: 16726

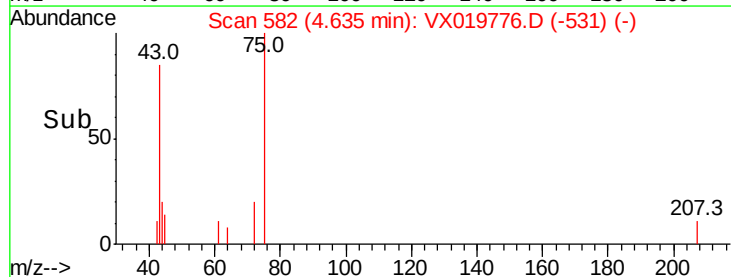
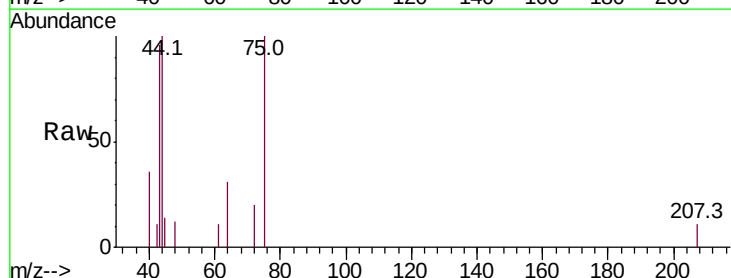
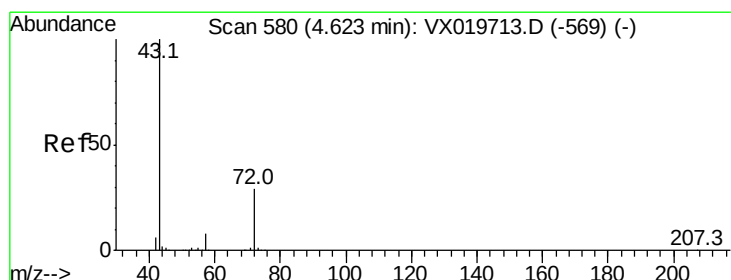
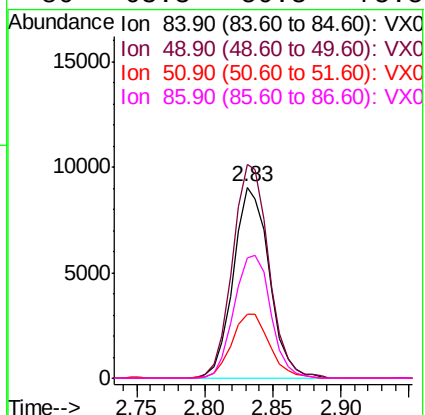
Ion Ratio Lower Upper

84 100

49 111.9 88.6 132.8

51 33.5 27.0 40.6

86 63.3 50.3 75.5



#25

2-Butanone

Concen: 0.470 ug/l

RT: 4.64 min Scan# 582

Delta R.T. 0.01 min

Lab File: VX019776.D

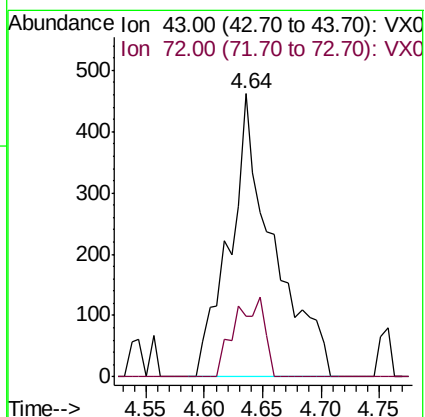
Acq: 09 Dec 2020 14:14

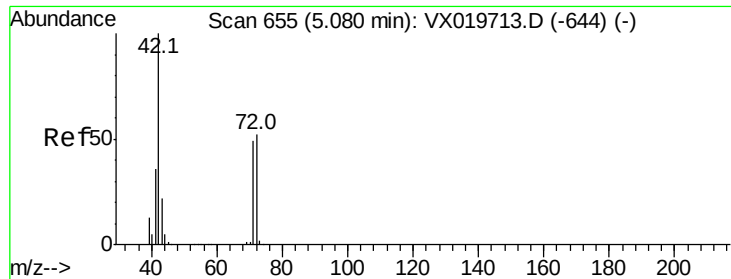
Tgt Ion: 43 Resp: 1199

Ion Ratio Lower Upper

43 100

72 21.2 23.7 35.5#

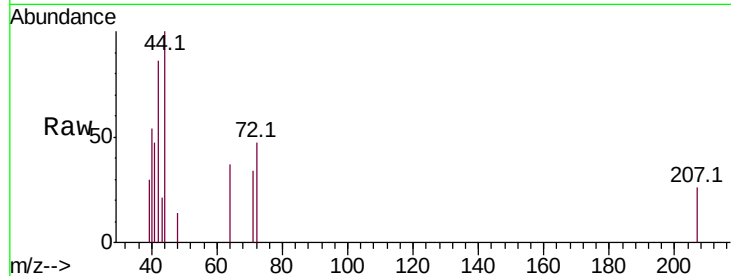




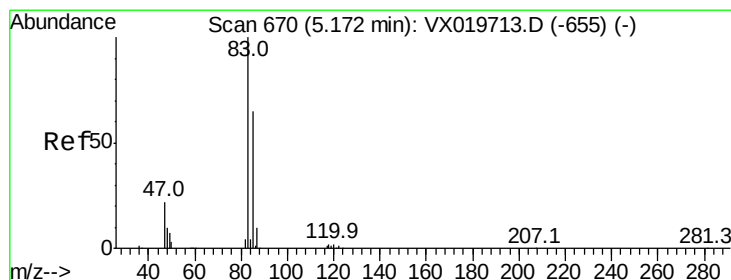
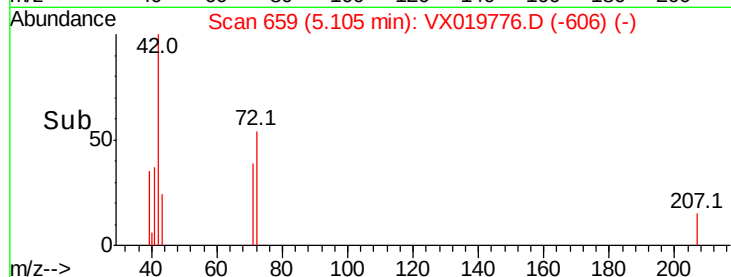
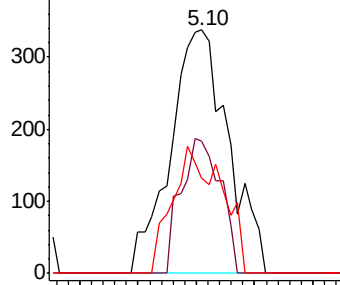
#29
Tetrahydrofuran
Concen: 0.711 ug/l
RT: 5.10 min Scan# 659
Delta R.T. 0.02 min
Lab File: VX019776.D
Acq: 09 Dec 2020 14:14

Instrument :
MSVOA_X
ClientSampled :
239995-1-3

Tot Ion: 42 Resp: 1169
Ion Ratio Lower Upper
42 100
72 37.7 41.7 62.5#
71 44.1 38.4 57.6

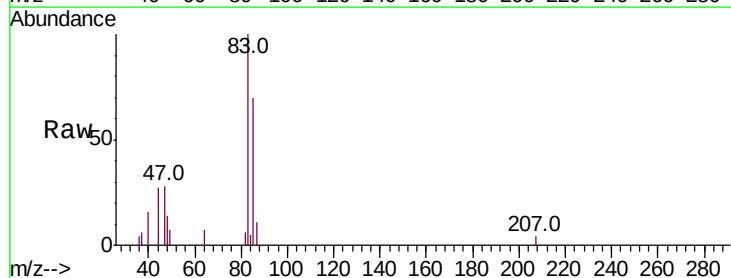


Abundance Ion 42.00 (41.70 to 42.70): VX0
Ion 72.00 (71.70 to 72.70): VX0
Ion 71.00 (70.70 to 71.70): VX0

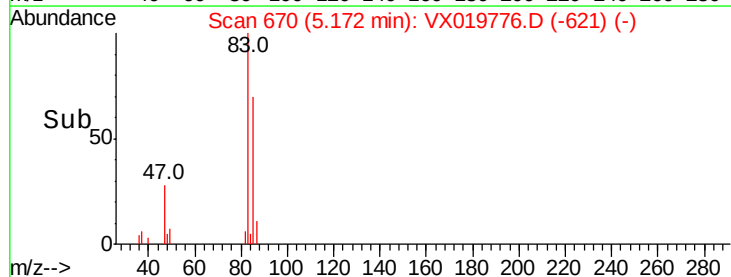
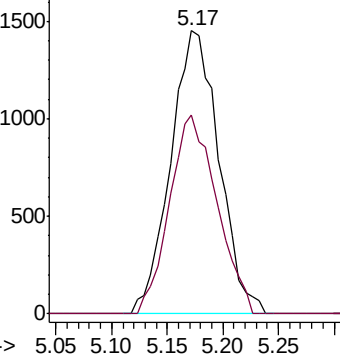


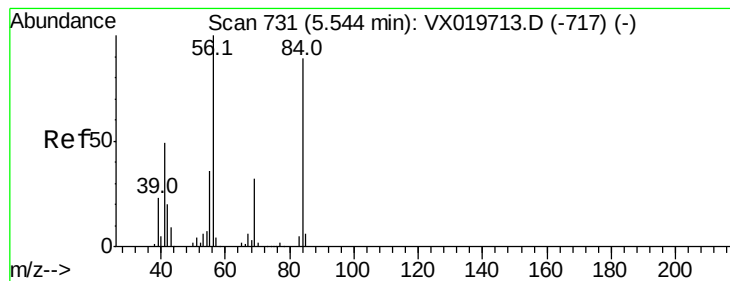
#30
Chloroform
Concen: 0.672 ug/l
RT: 5.17 min Scan# 670
Delta R.T. 0.00 min
Lab File: VX019776.D
Acq: 09 Dec 2020 14:14

Tgt Ion: 83 Resp: 4385
Ion Ratio Lower Upper
83 100
85 70.4 52.0 78.0



Abundance Ion 82.90 (82.60 to 83.60): VX0
Ion 84.90 (84.60 to 85.60): VX0





#31

Cyclohexane

Concen: 1.177 ug/l

RT: 5.62 min Scan# 744

Delta R.T. 0.08 min

Lab File: VX019776.D

Acq: 09 Dec 2020 14:14

Instrument :

MSVOA_X

ClientSampleId :

239995-1-3

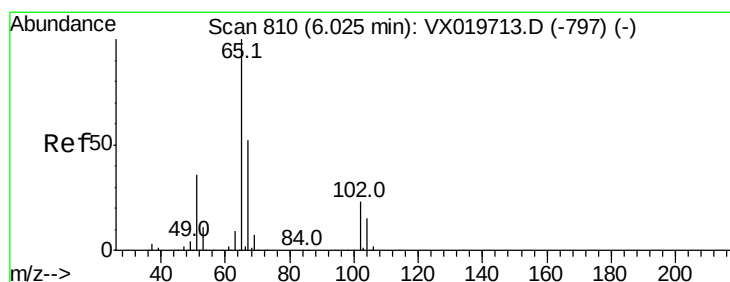
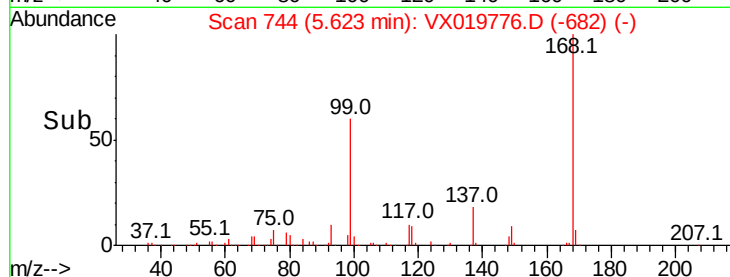
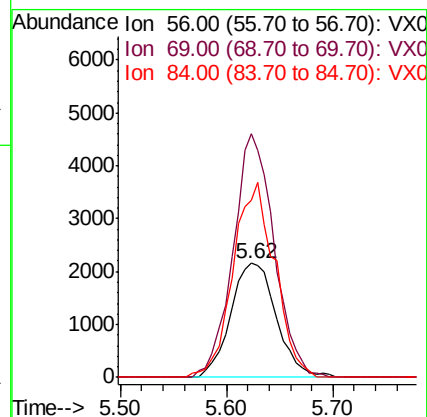
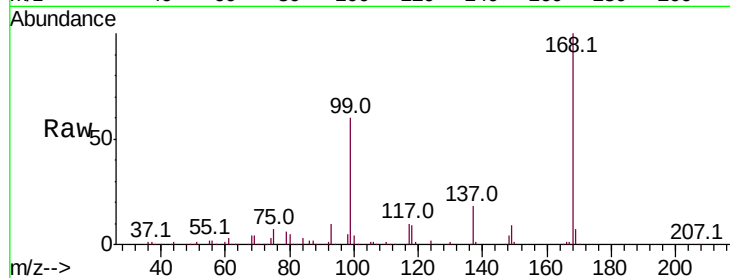
Tot Ion: 56 Resp: 6470

Ion Ratio Lower Upper

56 100

69 213.8 25.3 37.9#

84 155.1 71.4 107.0#



#33

1,2-Dichloroethane-d4

Concen: 46.983 ug/l

RT: 6.03 min Scan# 811

Delta R.T. 0.01 min

Lab File: VX019776.D

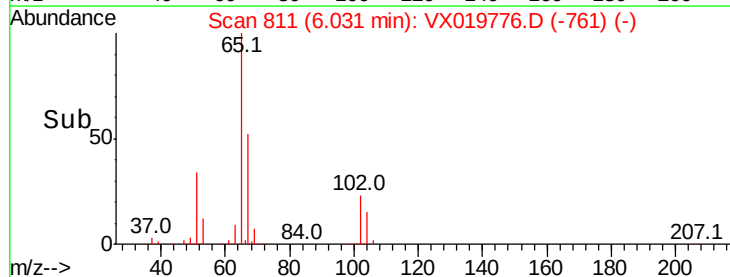
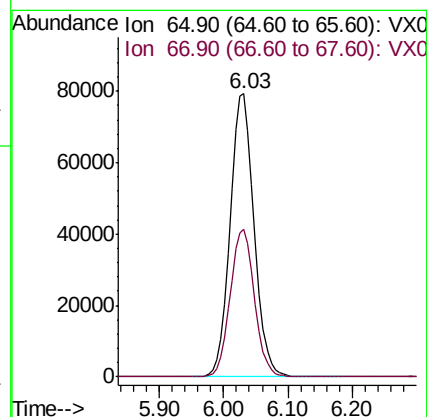
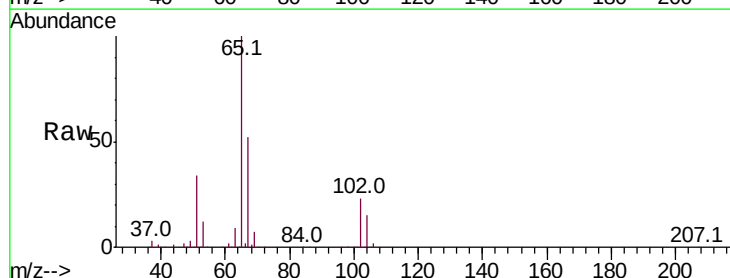
Acq: 09 Dec 2020 14:14

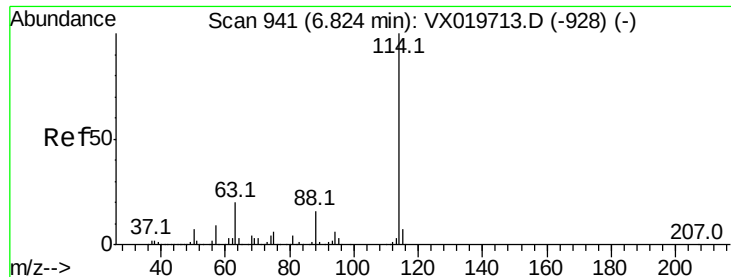
Tgt Ion: 65 Resp: 207675

Ion Ratio Lower Upper

65 100

67 52.8 0.0 105.4





#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 6.83 min Scan# 942

Delta R.T. 0.01 min

Lab File: VX019776.D

Acq: 09 Dec 2020 14:14

Instrument :

MSVOA_X

ClientSampleId :

239995-1-3

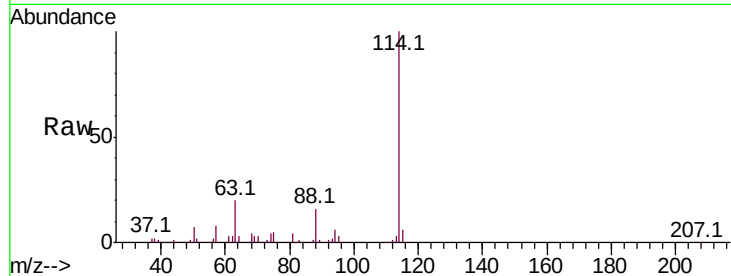
Tot Ion:114 Resp: 553010

Ion Ratio Lower Upper

114 100

63 20.5 0.0 40.8

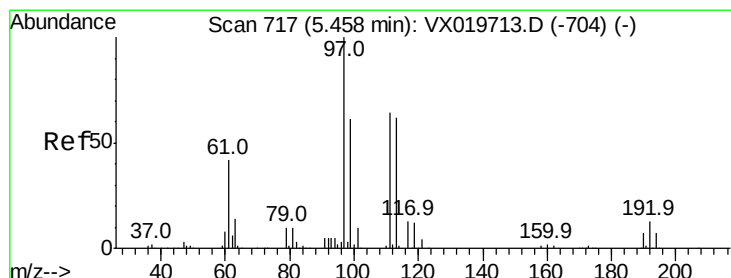
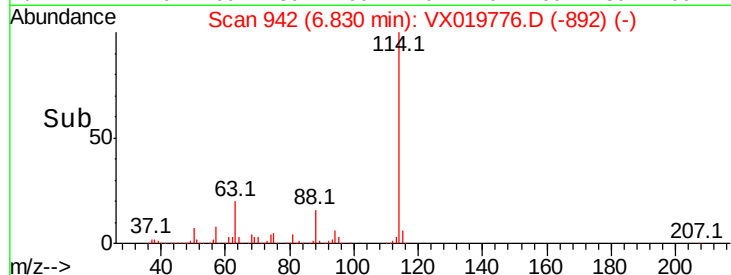
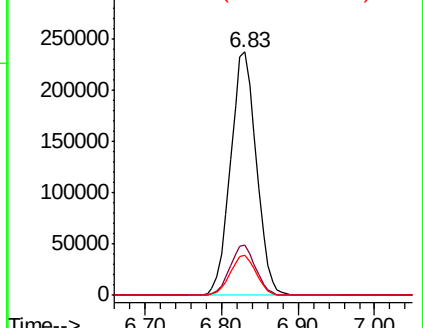
88 16.5 0.0 32.8



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: 47.396 ug/l

RT: 5.46 min Scan# 718

Delta R.T. 0.01 min

Lab File: VX019776.D

Acq: 09 Dec 2020 14:14

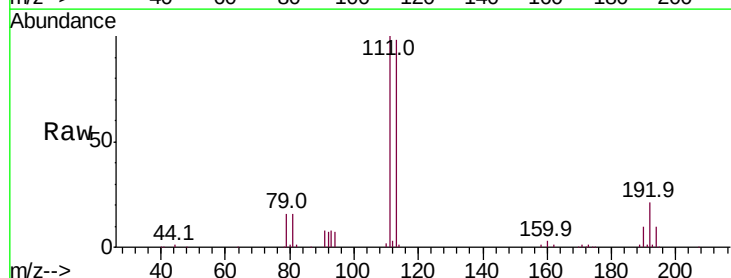
Tgt Ion:113 Resp: 169395

Ion Ratio Lower Upper

113 100

111 102.9 81.9 122.9

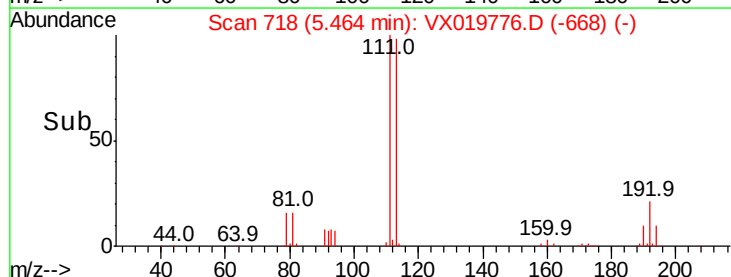
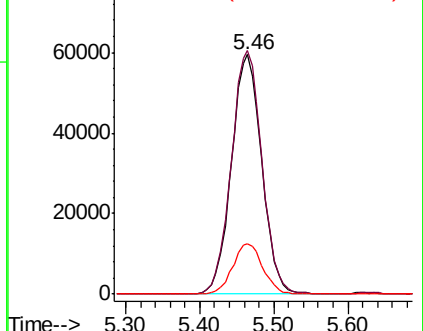
192 20.9 16.7 25.1

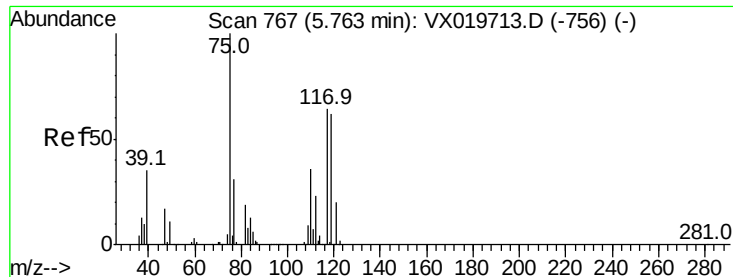


Abundance Ion 112.80 (112.50 to 113.50): V

Ion 110.80 (110.50 to 111.50): V

Ion 191.70 (191.40 to 192.40): V

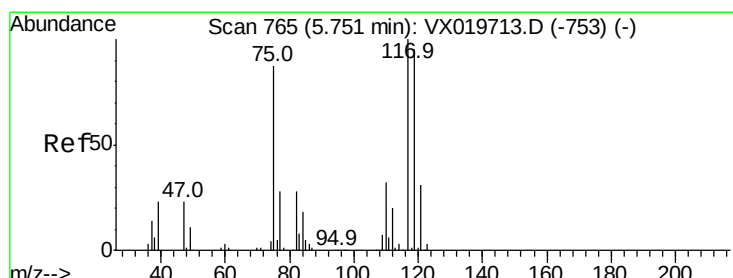
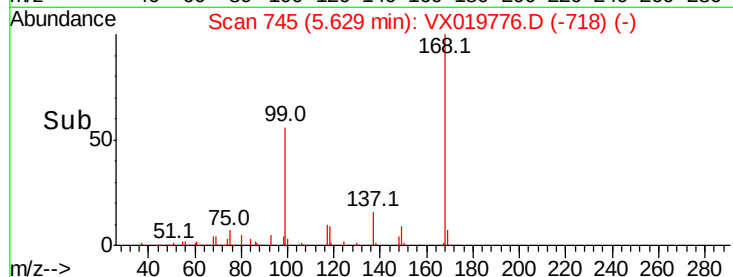
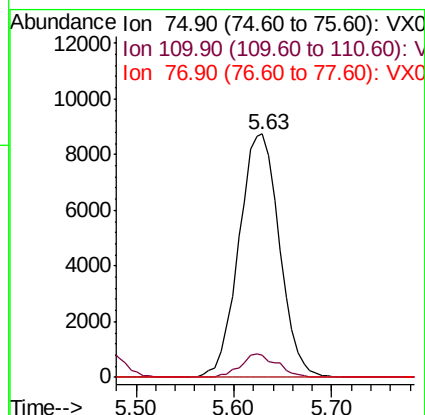
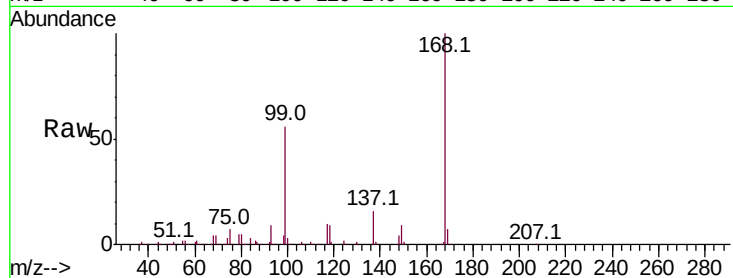




#36
 1,1-Dichloropropene
 Concen: 5.034 ug/l
 RT: 5.63 min Scan# 745
 Delta R.T. -0.13 min
 Lab File: VX019776.D
 Acq: 09 Dec 2020 14:14

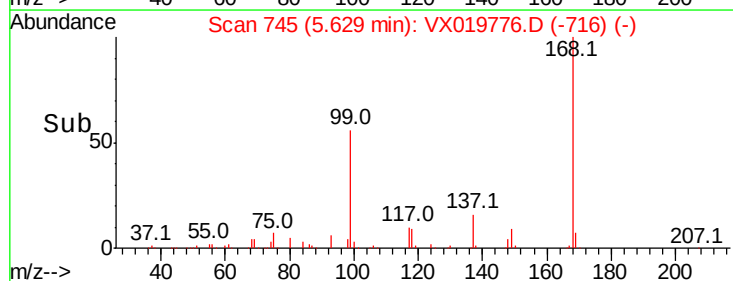
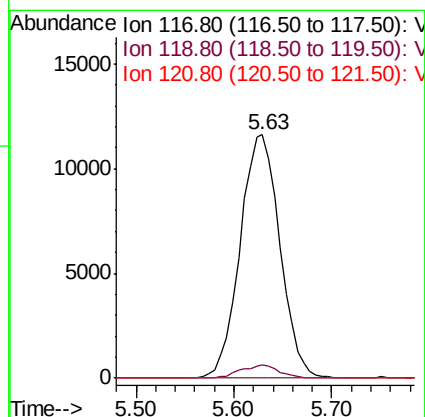
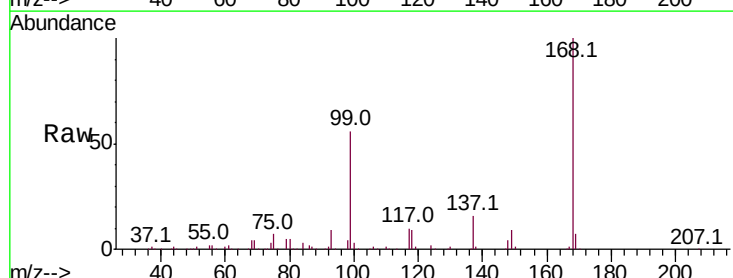
Instrument :
 MSVOA_X
 ClientSampleId :
 239995-1-3

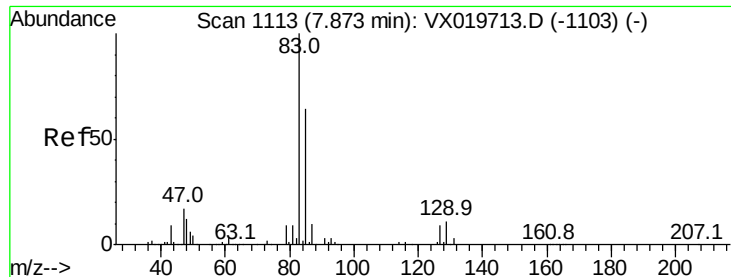
Tot Ion	Ratio	Lower	Upper
75	100		
110	8.8	18.1	54.4#
77	0.0	25.3	37.9#



#38
 Carbon Tetrachloride
 Concen: 6.708 ug/l
 RT: 5.63 min Scan# 745
 Delta R.T. -0.12 min
 Lab File: VX019776.D
 Acq: 09 Dec 2020 14:14

Tgt Ion	Ratio	Lower	Upper
117	100		
119	5.4	76.2	114.2#
121	0.0	24.8	37.2#





#47

Bromodichloromethane

Concen: 0.228 ug/l

RT: 7.87 min Scan# 1113

Delta R.T. 0.00 min

Lab File: VX019776.D

Acq: 09 Dec 2020 14:14

Instrument :

MSVOA_X

ClientSampleId :

239995-1-3

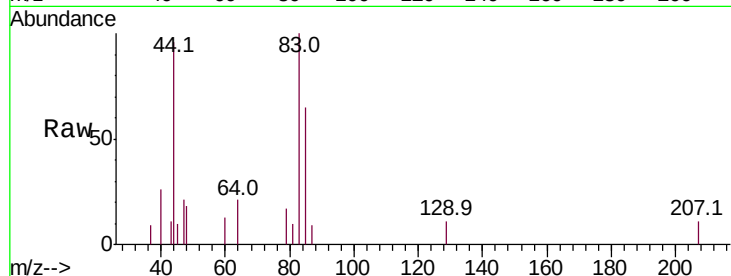
Tot Ion: 83 Resp: 1166

Ion Ratio Lower Upper

83 100

85 64.9 51.4 77.0

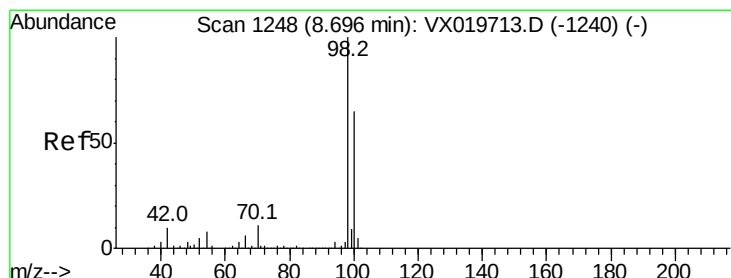
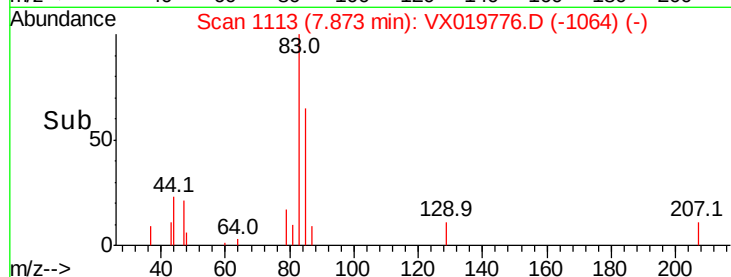
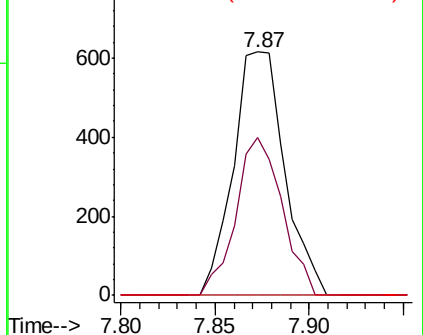
127 0.0 6.8 10.2#



Abundance Ion 82.90 (82.60 to 83.60): VX0

Ion 84.90 (84.60 to 85.60): VX0

Ion 126.80 (126.50 to 127.50): V



#50

Toluene-d8

Concen: 48.935 ug/l

RT: 8.70 min Scan# 1248

Delta R.T. 0.00 min

Lab File: VX019776.D

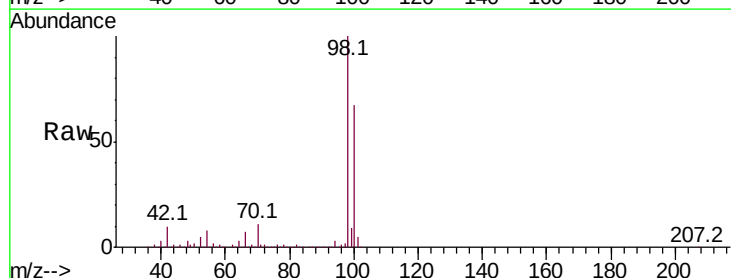
Acq: 09 Dec 2020 14:14

Tgt Ion: 98 Resp: 667700

Ion Ratio Lower Upper

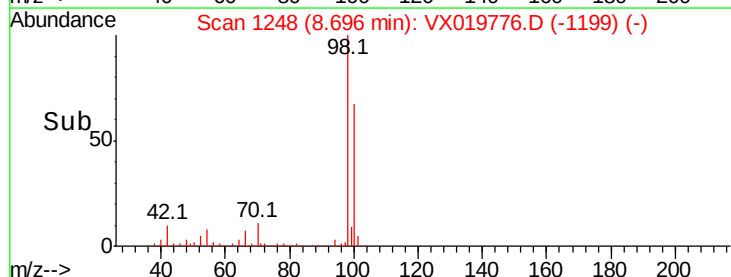
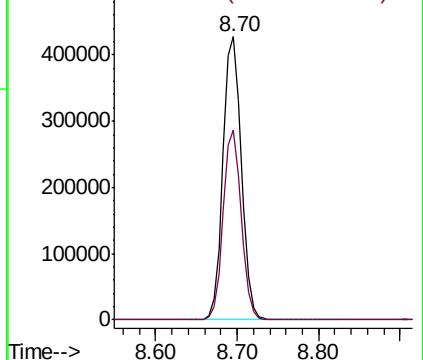
98 100

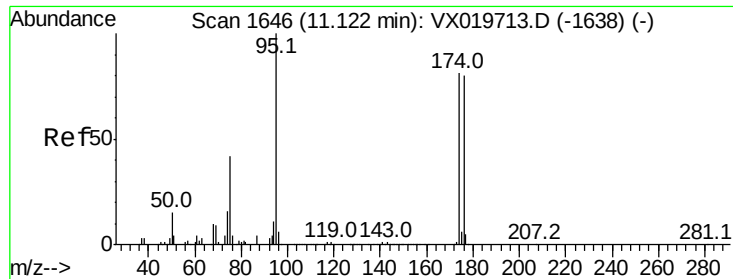
100 65.9 51.9 77.9



Abundance Ion 98.00 (97.70 to 98.70): VX0

Ion 100.00 (99.70 to 100.70): V





#62

4-Bromofluorobenzene

Concen: 45.432 ug/l

RT: 11.12 min Scan# 1646

Delta R.T. 0.00 min

Lab File: VX019776.D

Acq: 09 Dec 2020 14:14

Instrument :

MSVOA_X

ClientSampleId :

239995-1-3

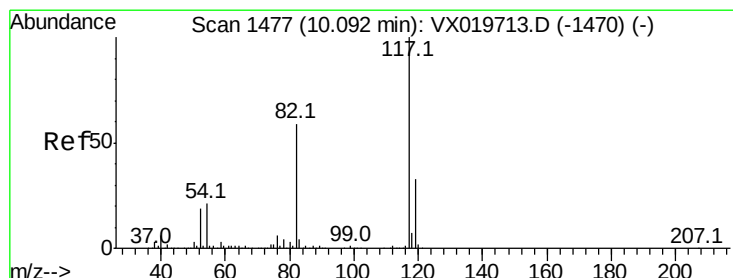
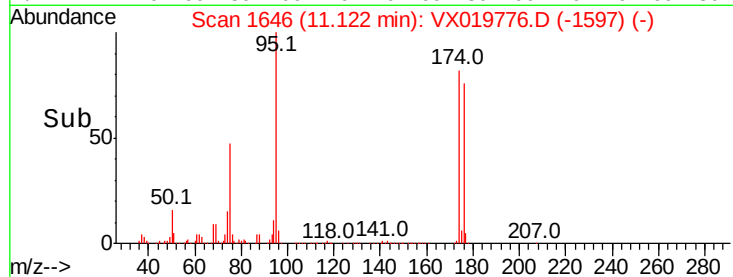
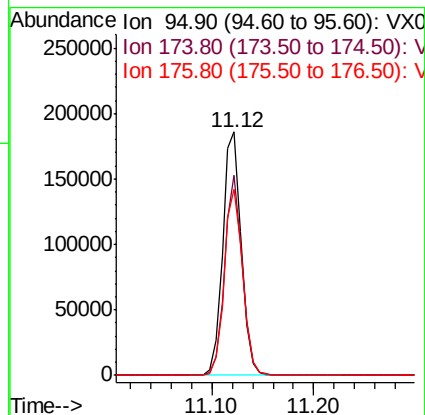
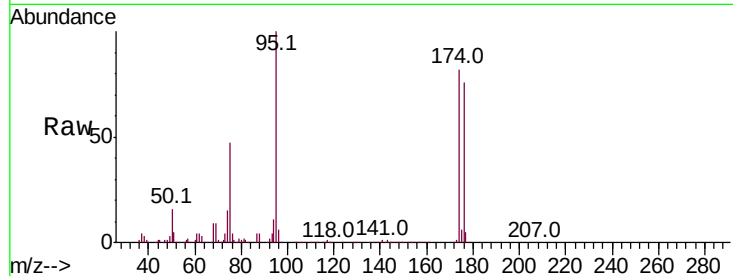
Tot Ion: 95 Resp: 235946

Ion Ratio Lower Upper

95 100

174 77.7 0.0 154.6

176 75.8 0.0 155.8



#63

Chlorobenzene-d5

Concen: 50.000 ug/l

RT: 10.09 min Scan# 1477

Delta R.T. 0.00 min

Lab File: VX019776.D

Acq: 09 Dec 2020 14:14

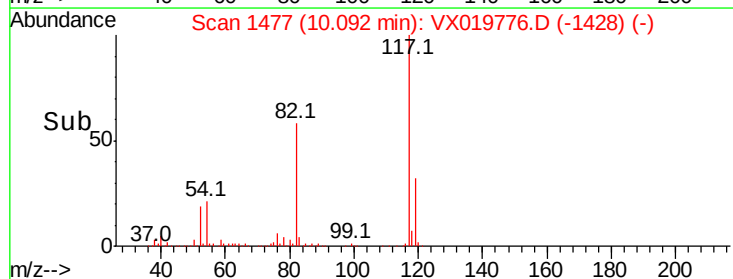
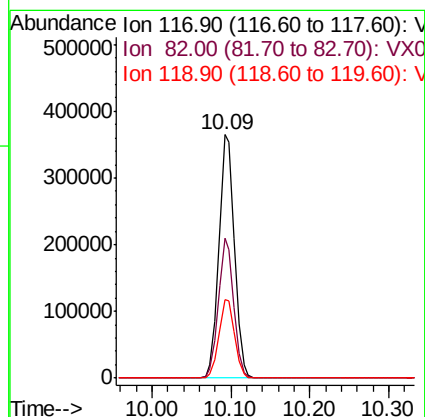
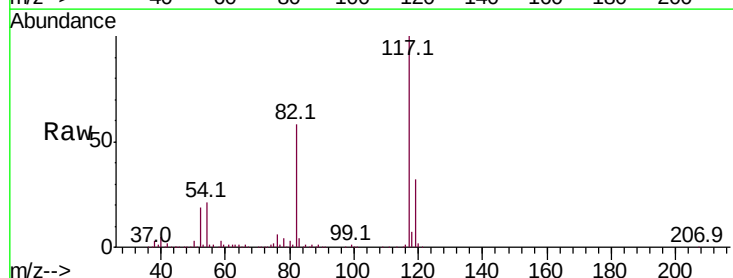
Tgt Ion: 117 Resp: 501535

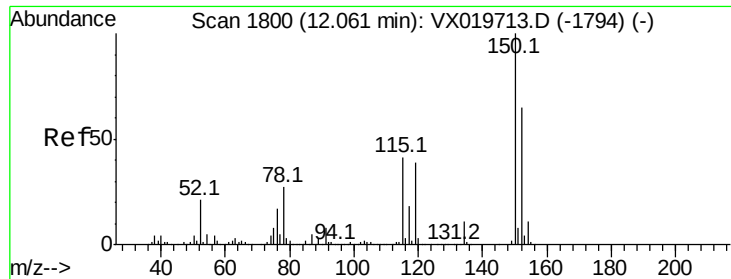
Ion Ratio Lower Upper

117 100

82 57.5 47.4 71.2

119 32.3 26.6 39.8





#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

RT: 12.06 min Scan# 1800

Delta R.T. 0.00 min

Lab File: VX019776.D

Acq: 09 Dec 2020 14:14

Instrument :

MSVOA_X

ClientSampleId :

239995-1-3

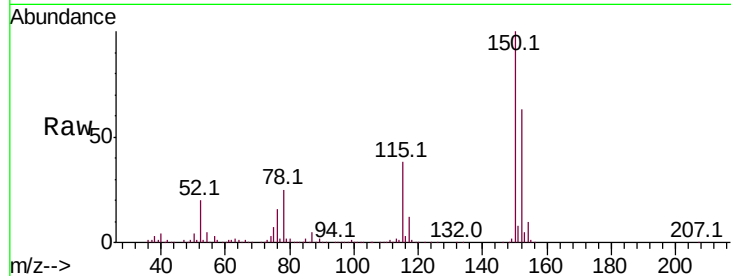
Tot Ion:152 Resp: 225864

Ion Ratio Lower Upper

152 100

115 59.4 41.1 123.3

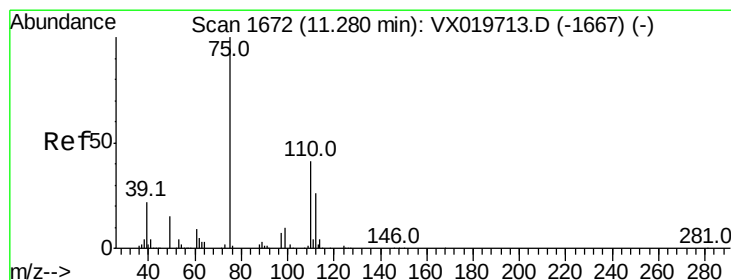
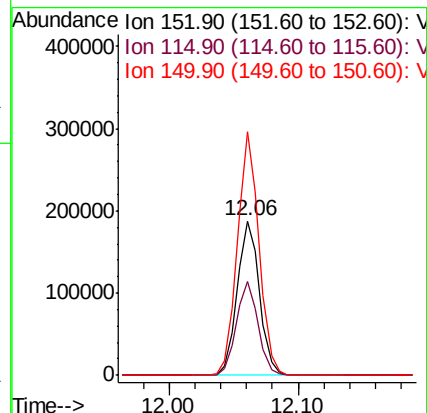
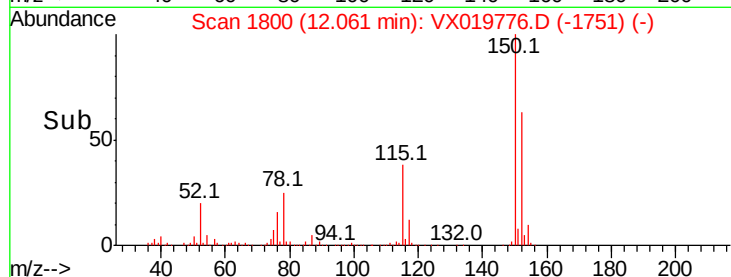
150 153.8 0.0 349.0



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: 22.372 ug/l

RT: 11.12 min Scan# 1646

Delta R.T. -0.16 min

Lab File: VX019776.D

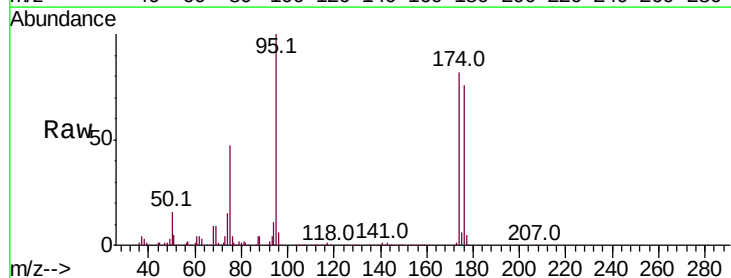
Acq: 09 Dec 2020 14:14

Tgt Ion: 75 Resp: 113331

Ion Ratio Lower Upper

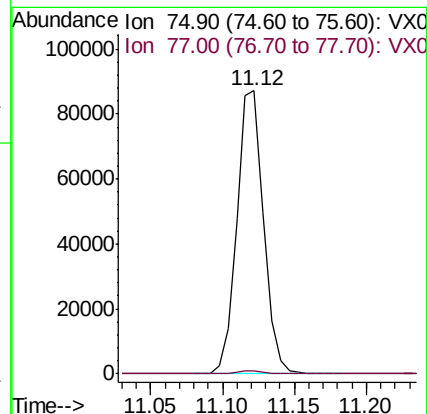
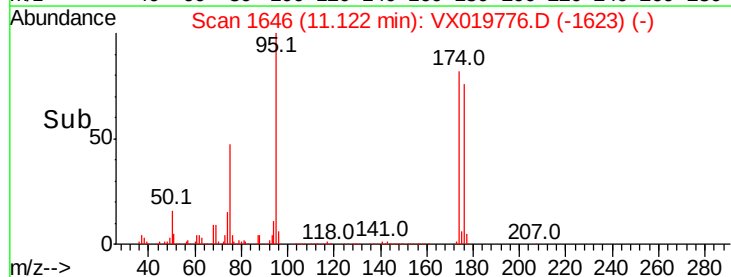
75 100

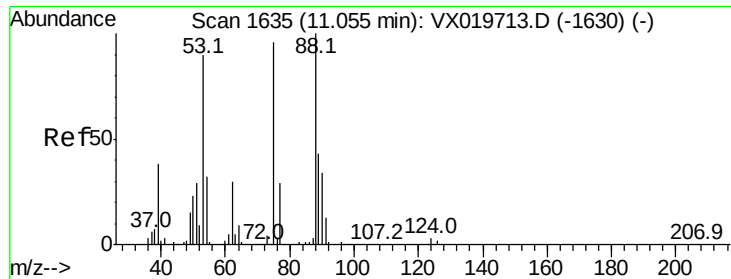
77 1.1 19.1 57.5#



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: 64.674 ug/l

RT: 11.12 min Scan# 1646

Delta R.T. 0.07 min

Lab File: VX019776.D

Acq: 09 Dec 2020 14:14

Instrument :

MSVOA_X

ClientSampleId :

239995-1-3

Tot Ion: 75 Resp: 113331

Ion Ratio Lower Upper

75 100

53 0.0 74.5 111.7#

89 0.0 37.9 56.9#

