

Data Path : Z:\VOASRV\HPCHEM1\MSVOA X\DATA\VX110620\
 Data File : VX019309.D
 Acq On : 05 Nov 2020 13:26
 Operator : JC/MD
 Sample : PB132825TB
 Misc : 5.0mL/MSVOA X/WATER
 ALS Vial : 37 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :

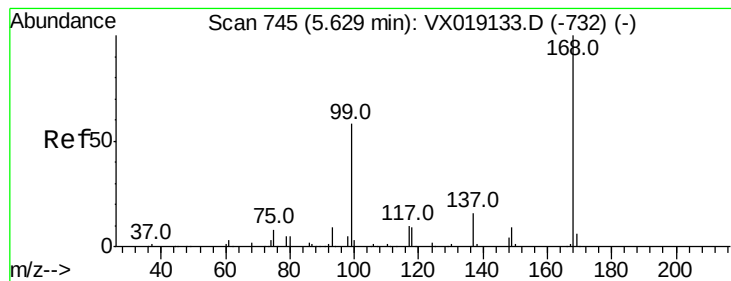
Quant Time: Nov 06 01:07:37 2020
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_X\METHOD\82X102720W.M
 Quant Title : SW846 8260
 QLast Update : Tue Oct 27 13:55:07 2020
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	5.64	168	259832	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	6.83	114	461101	50.00	ug/l	0.00
63) Chlorobenzene-d5	10.10	117	442655	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.06	152	211458	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	187721	56.02	ug/l	0.00
Spiked Amount 50.000			Recovery =	112.04%		
35) Dibromofluoromethane	5.47	113	146893	50.72	ug/l	0.00
Spiked Amount 50.000			Recovery =	101.44%		
50) Toluene-d8	8.70	98	572391	52.43	ug/l	0.00
Spiked Amount 50.000			Recovery =	104.86%		
62) 4-Bromofluorobenzene	11.12	95	219150	53.00	ug/l	0.00
Spiked Amount 50.000			Recovery =	106.00%		

Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
10) Methyl Iodide	2.50	142	20	6.385	ug/l #	39
11) Tert butyl alcohol	3.00	59	1304	1.970	ug/l #	72
13) Acrolein	2.26	56	21	5.717	ug/l #	1
16) Acetone	2.42	43	8348	7.222	ug/l #	86
17) Carbon Disulfide	2.56	76	455	0.822	ug/l #	75
18) Methyl Acetate	2.75	43	2956	1.052	ug/l	93
20) Methylene Chloride	2.84	84	2806	0.967	ug/l	91
25) 2-Butanone	4.65	43	1717	0.942	ug/l #	84
29) Tetrahydrofuran	5.09	42	935	0.814	ug/l #	46
31) Cyclohexane	5.64	56	5936	1.401	ug/l #	7
36) 1,1-Dichloropropene	5.63	75	21874	5.137	ug/l #	49
38) Carbon Tetrachloride	5.63	117	27569	6.352	ug/l #	16
43) Isopropyl Acetate	6.41	43	77853	11.761	ug/l	98
48) Methyl methacrylate	7.85	41	126502	39.704	ug/l #	37
49) 1,4-Dioxane	7.85	88	213	3.006	ug/l #	1
51) 4-Methyl-2-Pentanone	8.59	43	75930	19.957	ug/l #	47
54) cis-1,3-Dichloropropene	8.59	75	37810	7.304	ug/l #	61
56) Ethyl methacrylate	9.29	69	1196	0.258	ug/l #	1
57) 1,3-Dichloropropane	9.52	76	6613	1.277	ug/l #	43
59) 2-Hexanone	9.42	43	72891	25.169	ug/l #	20
60) Dibromochloromethane	9.32	129	3410	1.023	ug/l #	11
64) Tetrachloroethene	9.32	164	3549	1.052	ug/l	95
76) 1,2,3-Trichloropropane	11.12	75	113155	25.916	ug/l #	37
80) 1,3,5-Trimethylbenzene	11.49	105	11207	0.886	ug/l	97
81) trans-1,4-Dichloro-2-buten	11.12	75	113155	68.238	ug/l #	12

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



#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 5.64 min Scan# 746

Delta R.T. 0.01 min

Lab File: VX019309.D

Acq: 05 Nov 2020 13:26

Instrument :

MSVOA_X

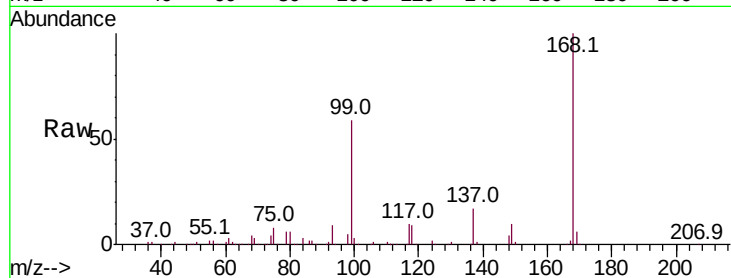
ClientSampleId :

Tot Ion:168 Resp: 259832

Ion Ratio Lower Upper

168 100

99 59.1 46.6 69.8



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VX0

5.64

100000

80000

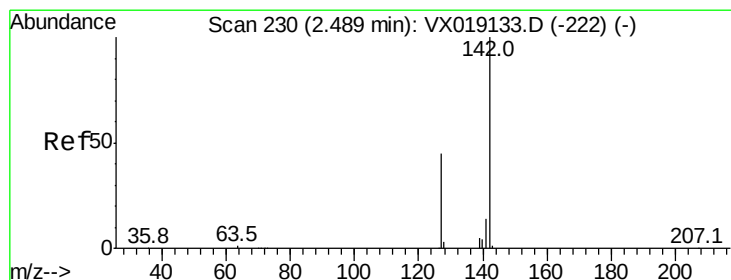
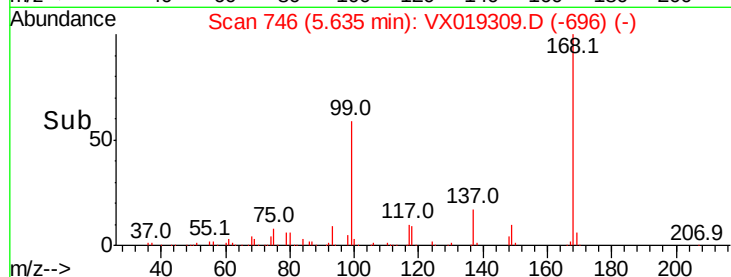
60000

40000

20000

0

Time-->



#10

Methyl Iodide

Concen: 6.385 ug/l

RT: 2.50 min Scan# 231

Delta R.T. 0.01 min

Lab File: VX019309.D

Acq: 05 Nov 2020 13:26

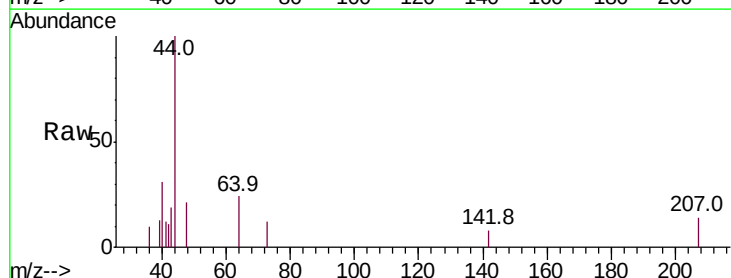
Tgt Ion:142 Resp: 20

Ion Ratio Lower Upper

142 100

127 0.0 36.1 54.1#

141 0.0 11.3 16.9#



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

2.50

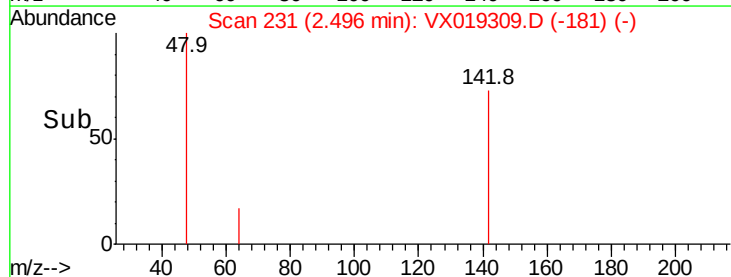
60

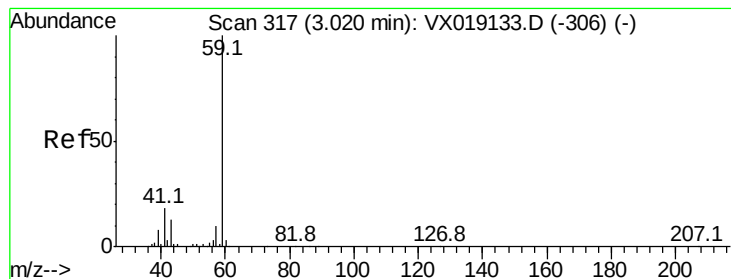
40

20

0

Time-->



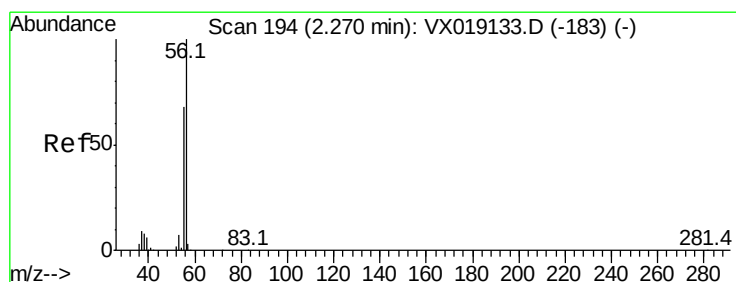
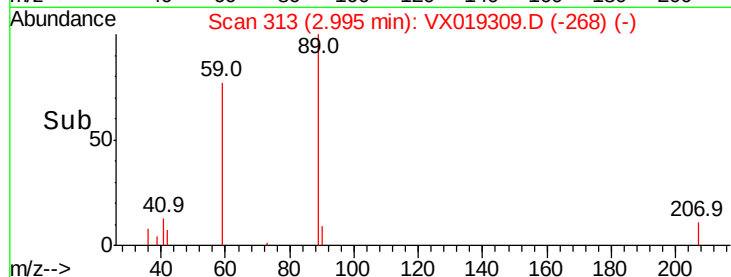
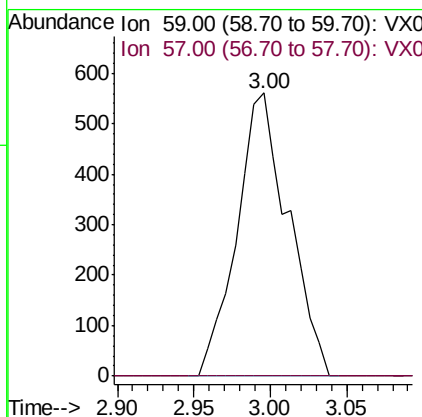
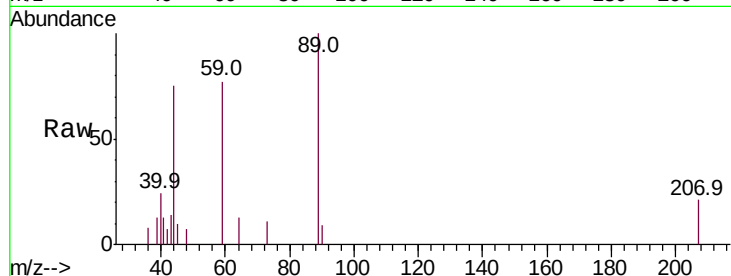


#11

Tert butyl alcohol
 Concen: 1.970 ug/l
 RT: 3.00 min Scan# 313
 Delta R.T. -0.02 min
 Lab File: VX019309.D
 Acq: 05 Nov 2020 13:26

Instrument :
 MSVOA_X
 ClientSampleId :

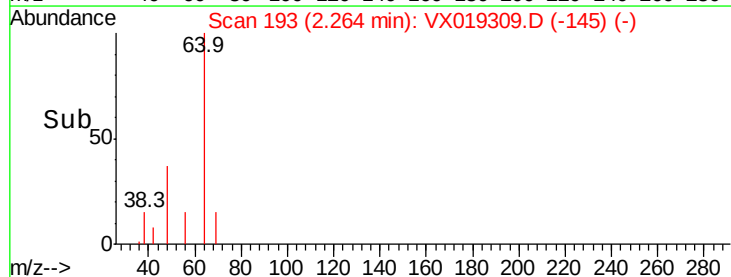
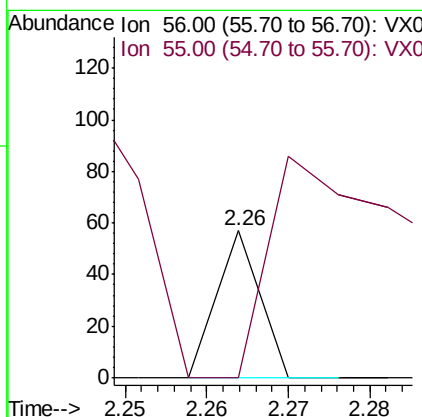
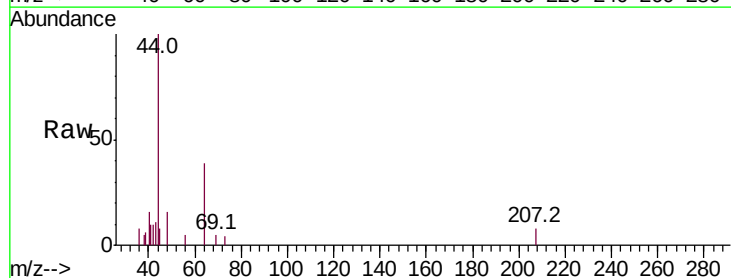
Tot Ion: 59 Resp: 1304
 Ion Ratio Lower Upper
 59 100
 57 0.0 8.4 12.6#

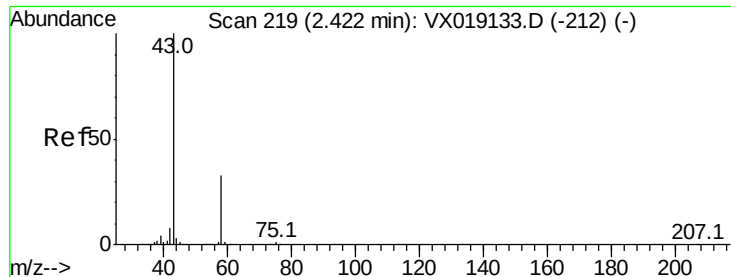


#13

Acrolein
 Concen: 5.717 ug/l
 RT: 2.26 min Scan# 193
 Delta R.T. -0.01 min
 Lab File: VX019309.D
 Acq: 05 Nov 2020 13:26

Tgt Ion: 56 Resp: 21
 Ion Ratio Lower Upper
 56 100
 55 590.5 54.7 82.1#





#16

Acetone

Concen: 7.222 ug/l

RT: 2.42 min Scan# 218

Delta R.T. -0.01 min

Lab File: VX019309.D

Acq: 05 Nov 2020 13:26

Instrument :

MSVOA_X

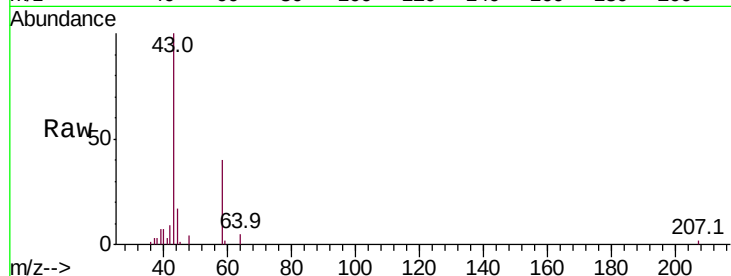
ClientSampled :

Tot Ion: 43 Resp: 8348

Ion Ratio Lower Upper

43 100

58 40.8 26.3 39.5#



Abundance Ion 43.00 (42.70 to 43.70): VX0

Ion 58.00 (57.70 to 58.70): VX0

2.42

5000

4000

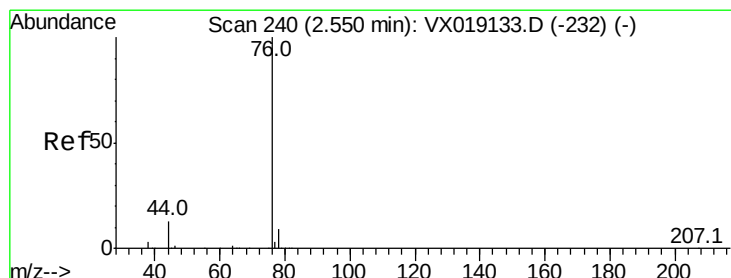
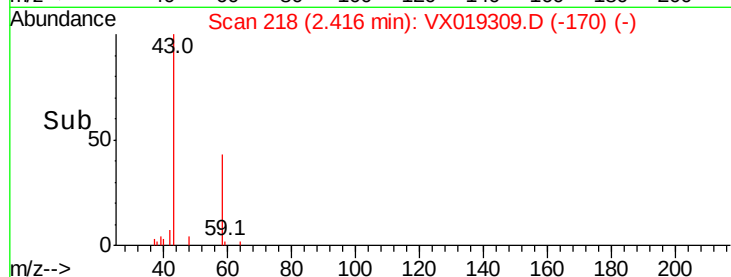
3000

2000

1000

0

Time--> 2.35 2.40 2.45 2.50 2.55



#17

Carbon Disulfide

Concen: 0.822 ug/l

RT: 2.56 min Scan# 241

Delta R.T. 0.01 min

Lab File: VX019309.D

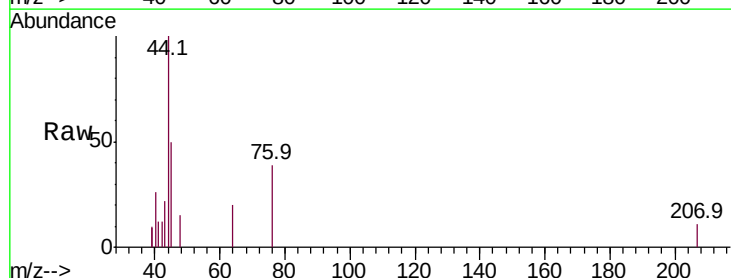
Acq: 05 Nov 2020 13:26

Tgt Ion: 76 Resp: 455

Ion Ratio Lower Upper

76 100

78 0.0 7.3 10.9#



Abundance Ion 75.90 (75.60 to 76.60): VX0

Ion 77.90 (77.60 to 78.60): VX0

2.56

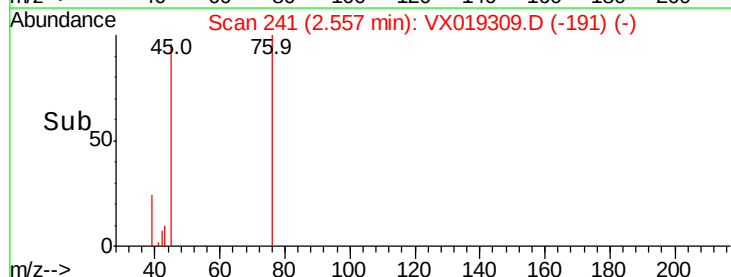
300

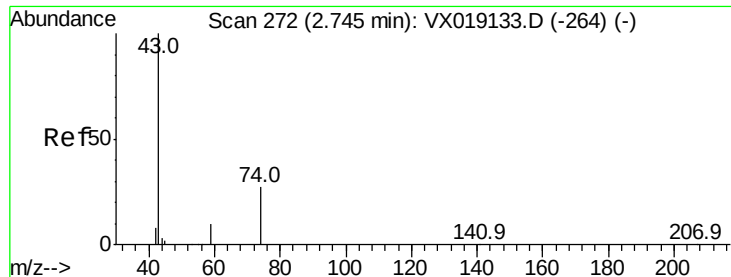
200

100

0

Time--> 2.50 2.55 2.60

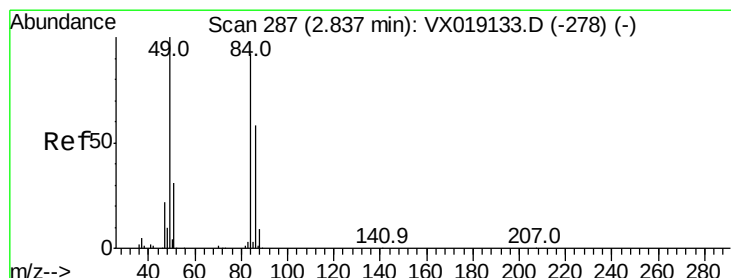
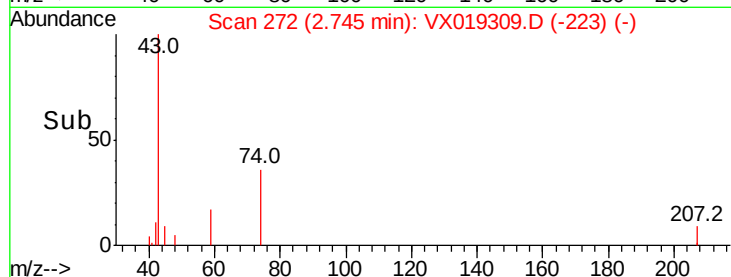
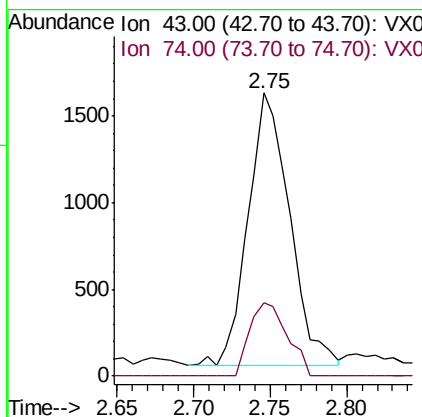
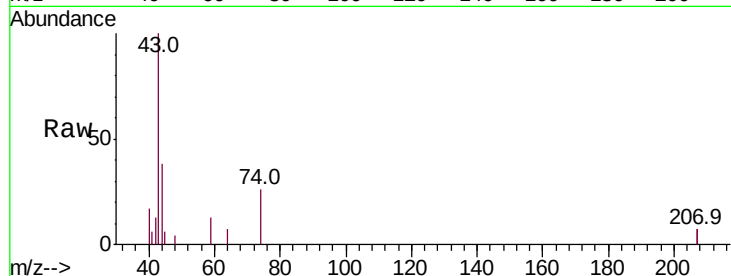




#18
Methvl Acetate
Concen: 1.052 ug/l
RT: 2.75 min Scan# 272
Delta R.T. 0.00 min
Lab File: VX019309.D
Acq: 05 Nov 2020 13:26

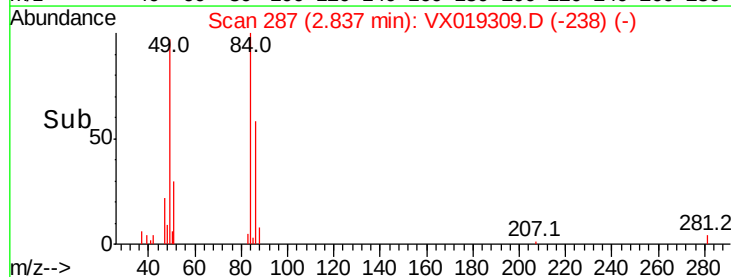
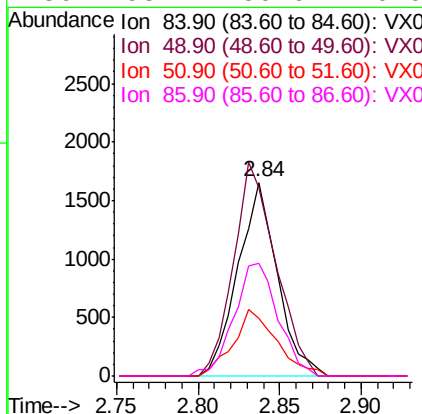
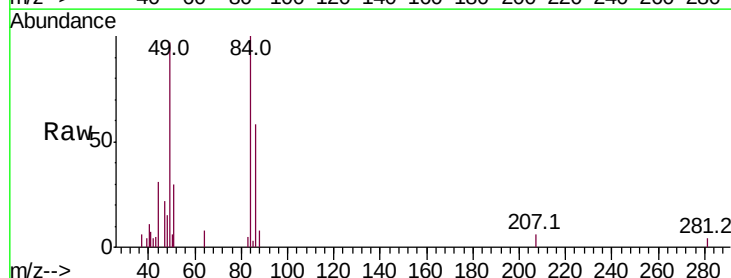
Instrument :
MSVOA_X
ClientSampleId :

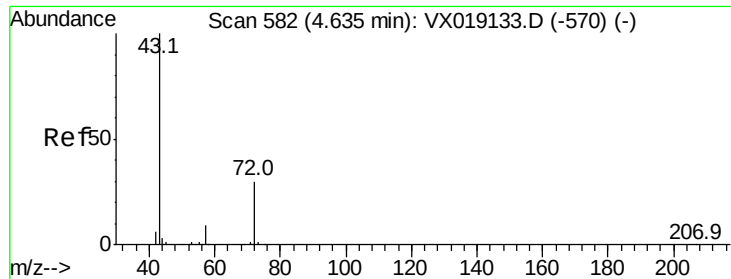
Tot Ion: 43 Resp: 2956
Ion Ratio Lower Upper
43 100
74 24.5 22.6 33.8



#20
Methylene Chloride
Concen: 0.967 ug/l
RT: 2.84 min Scan# 287
Delta R.T. 0.00 min
Lab File: VX019309.D
Acq: 05 Nov 2020 13:26

Tgt Ion: 84 Resp: 2806
Ion Ratio Lower Upper
84 100
49 97.2 86.8 130.2
51 29.7 27.3 40.9
86 58.1 50.6 76.0





#25

2-Butanone

Concen: 0.942 ug/l

RT: 4.65 min Scan# 585

Delta R.T. 0.02 min

Lab File: VX019309.D

Acq: 05 Nov 2020 13:26

Instrument :

MSVOA_X

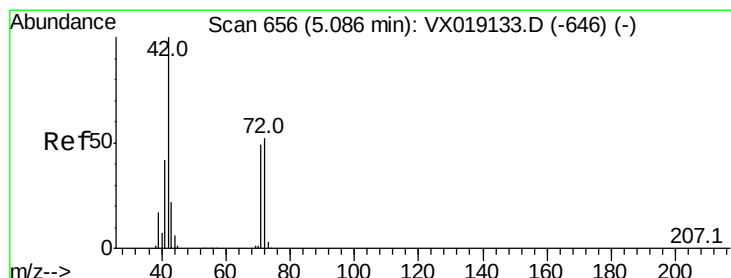
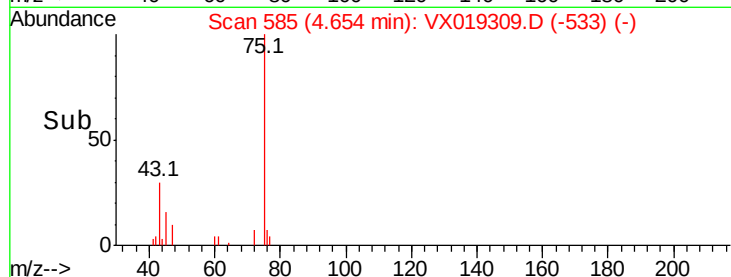
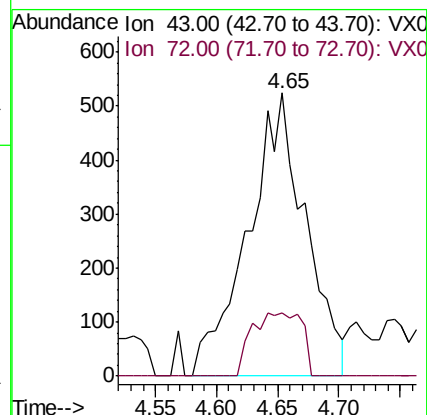
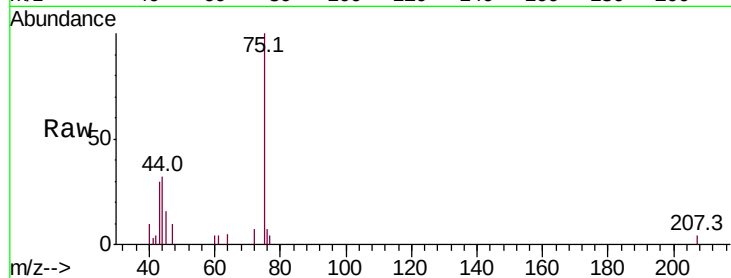
ClientSampleId :

Tot Ion: 43 Resp: 1717

Ion Ratio Lower Upper

43 100

72 22.1 24.6 36.8#



#29

Tetrahydrofuran

Concen: 0.814 ug/l

RT: 5.09 min Scan# 657

Delta R.T. 0.01 min

Lab File: VX019309.D

Acq: 05 Nov 2020 13:26

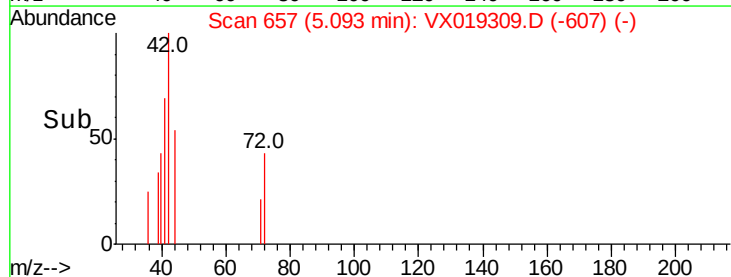
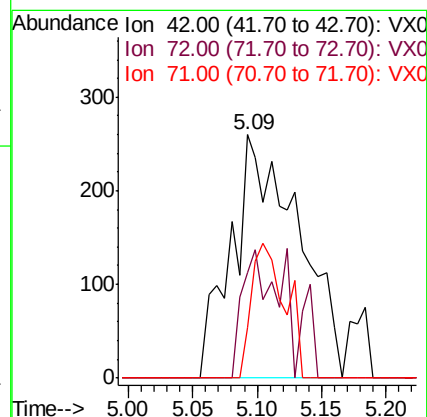
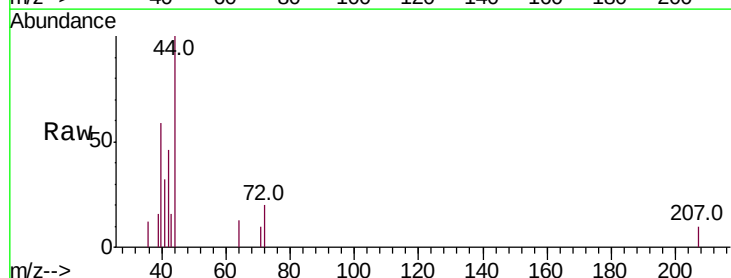
Tgt Ion: 42 Resp: 935

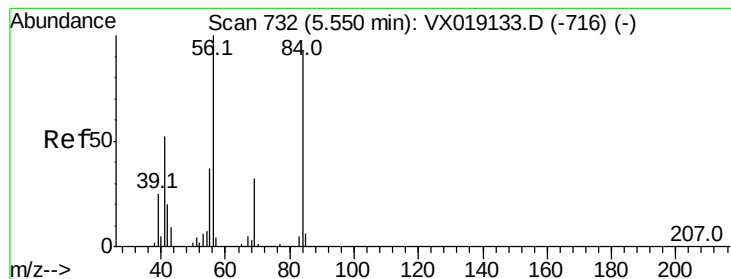
Ion Ratio Lower Upper

42 100

72 0.0 42.6 63.8#

71 27.5 39.7 59.5#





#31

Cyclohexane

Concen: 1.401 ug/l

RT: 5.64 min Scan# 746

Delta R.T. 0.09 min

Lab File: VX019309.D

Acq: 05 Nov 2020 13:26

Instrument :

MSVOA_X

ClientSampled :

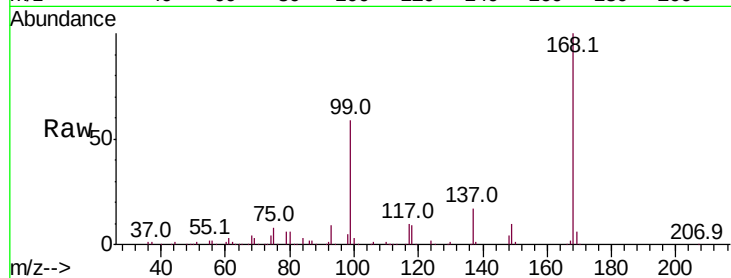
Tot Ion: 56 Resp: 5936

Ion Ratio Lower Upper

56 100

69 161.5 25.9 38.9#

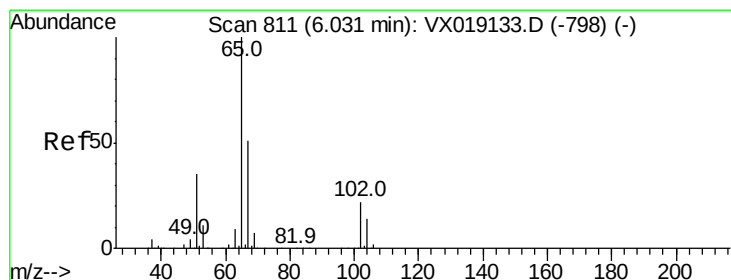
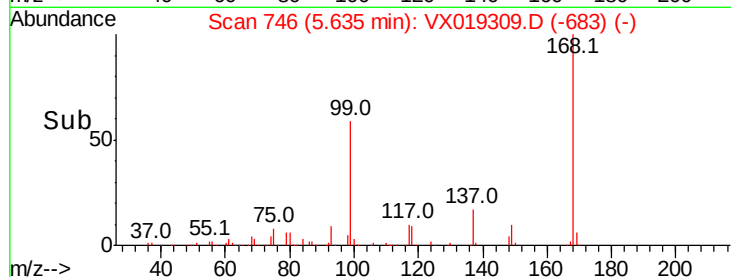
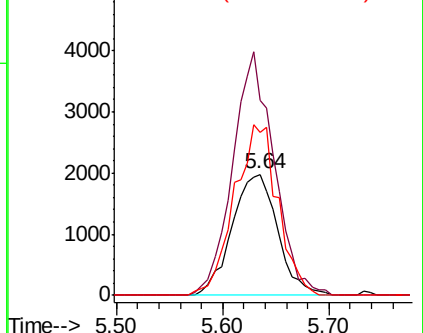
84 134.4 73.4 110.2#



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: 56.022 ug/l

RT: 6.03 min Scan# 811

Delta R.T. 0.00 min

Lab File: VX019309.D

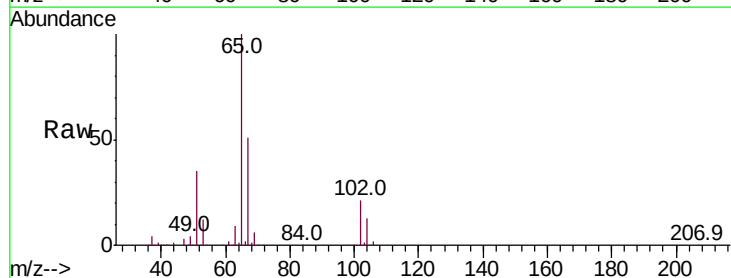
Acq: 05 Nov 2020 13:26

Tgt Ion: 65 Resp: 187721

Ion Ratio Lower Upper

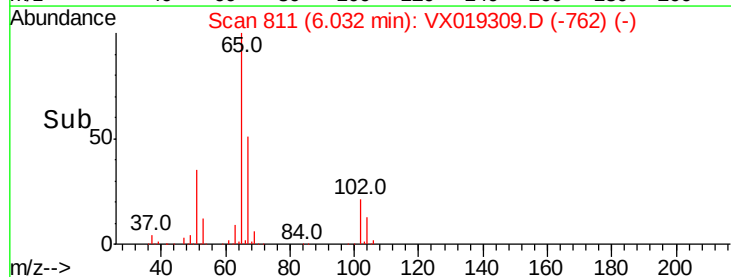
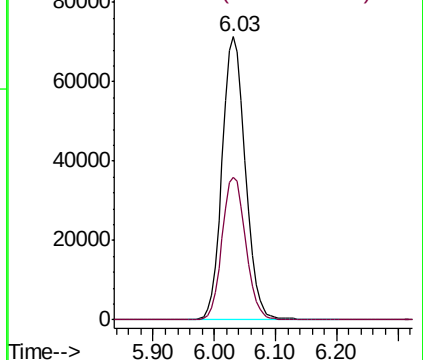
65 100

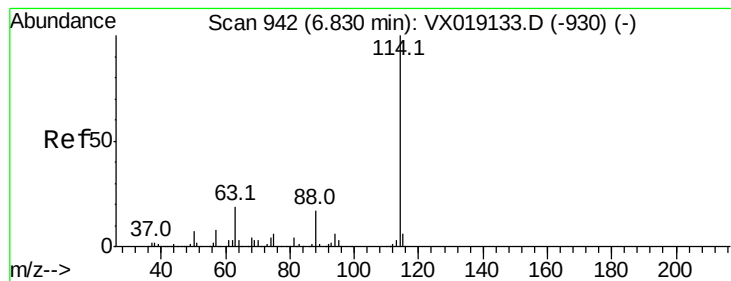
67 51.2 0.0 103.0



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: VX019309.D

Acq: 05 Nov 2020 13:26

Instrument :

MSVOA_X

ClientSampleId :

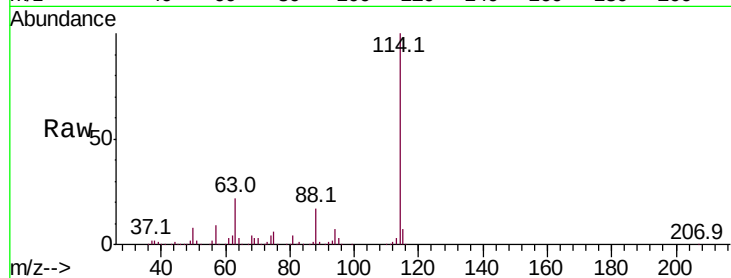
Tot Ion:114 Resp: 461101

Ion Ratio Lower Upper

114 100

63 21.5 0.0 38.8

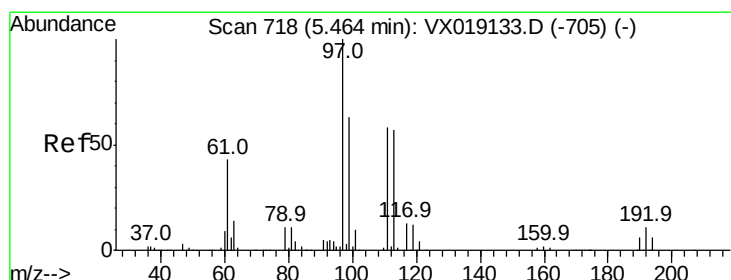
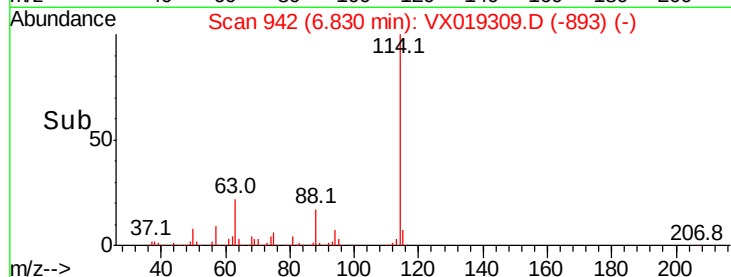
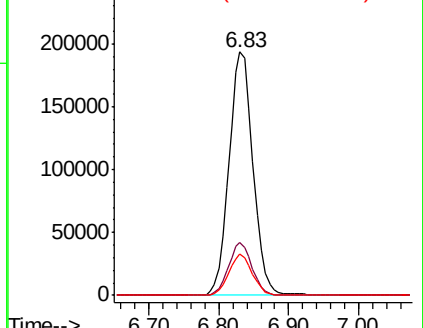
88 17.1 0.0 34.2



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: 50.717 ug/l

RT: 5.47 min Scan# 719

Delta R.T. 0.01 min

Lab File: VX019309.D

Acq: 05 Nov 2020 13:26

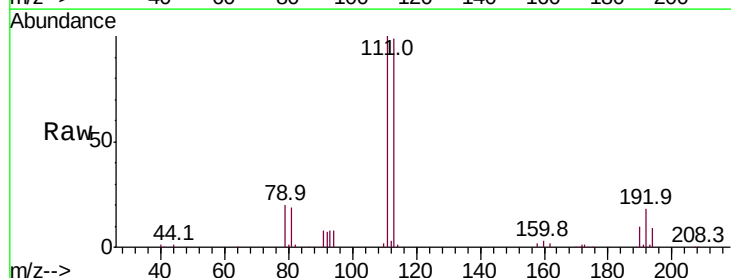
Tgt Ion:113 Resp: 146893

Ion Ratio Lower Upper

113 100

111 101.3 82.3 123.5

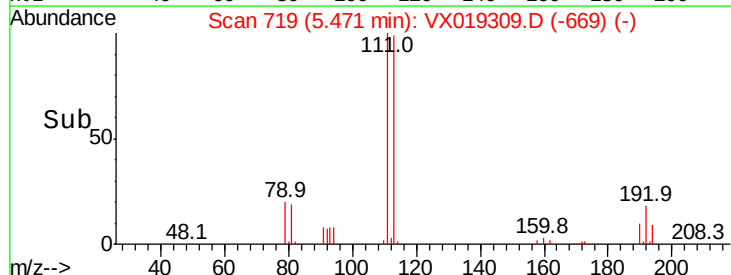
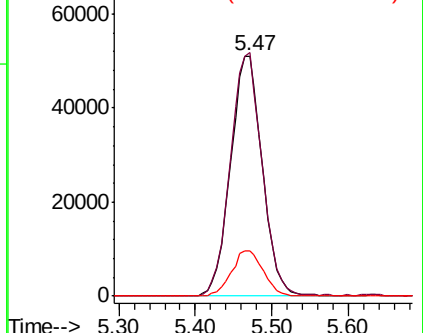
192 19.0 16.2 24.2

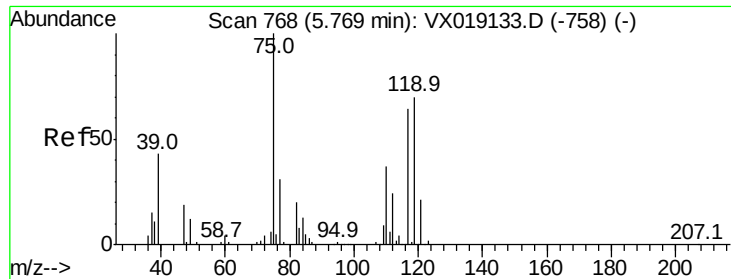


Abundance Ion 112.80 (112.50 to 113.50): V

Ion 110.80 (110.50 to 111.50): V

Ion 191.70 (191.40 to 192.40): V





#36

1,1-Dichloropropene

Concen: 5.137 ug/l

RT: 5.63 min Scan# 745

Delta R.T. -0.14 min

Lab File: VX019309.D

Acq: 05 Nov 2020 13:26

Instrument :

MSVOA_X

ClientSampleId :

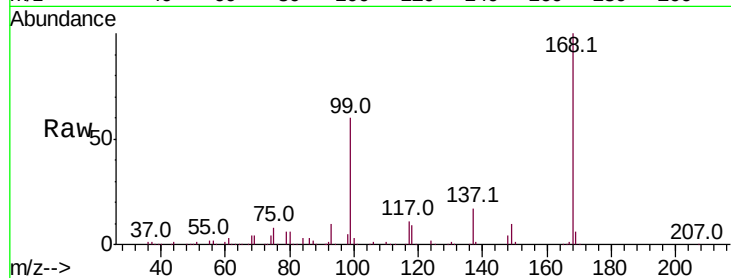
Tot Ion: 75 Resp: 21874

Ion Ratio Lower Upper

75 100

110 9.1 18.3 54.9#

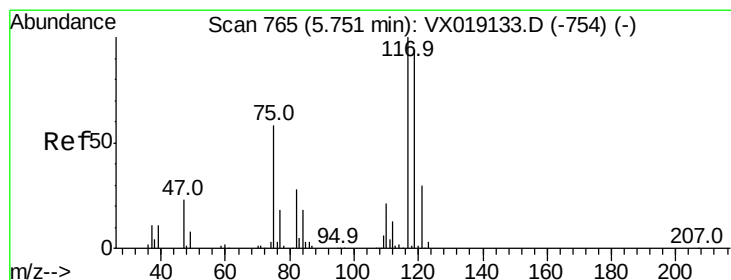
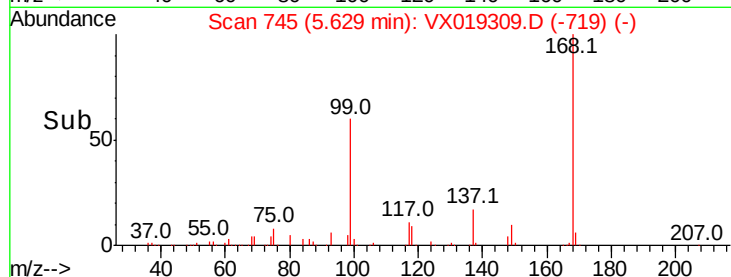
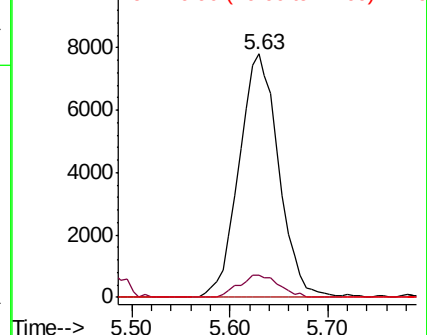
77 0.0 24.9 37.3#



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: 6.352 ug/l

RT: 5.63 min Scan# 745

Delta R.T. -0.12 min

Lab File: VX019309.D

Acq: 05 Nov 2020 13:26

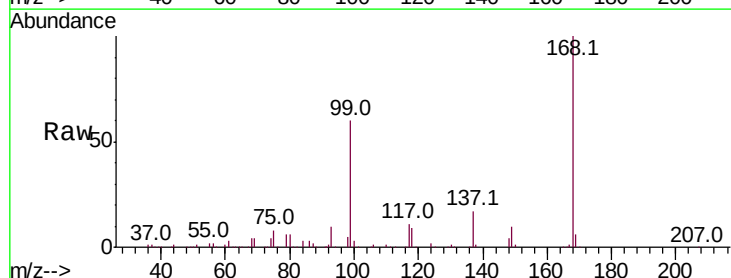
Tgt Ion: 117 Resp: 27569

Ion Ratio Lower Upper

117 100

119 4.3 75.0 112.6#

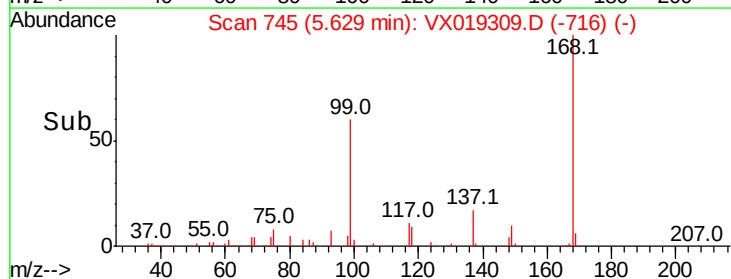
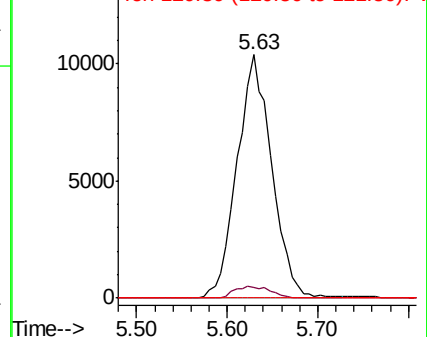
121 0.0 23.9 35.9#

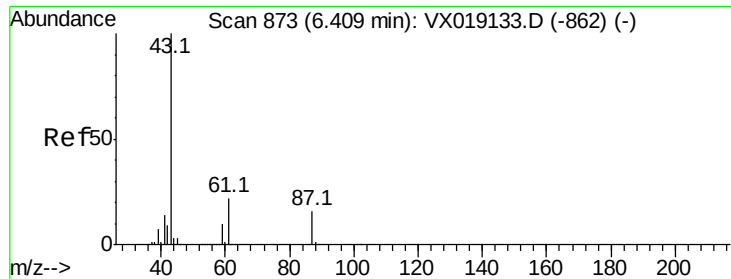


Abundance Ion 116.80 (116.50 to 117.50): V

Ion 118.80 (118.50 to 119.50): V

Ion 120.80 (120.50 to 121.50): V





#43

Isopropyl Acetate

Concen: 11.761 ug/l

RT: 6.41 min Scan# 873

Delta R.T. 0.00 min

Lab File: VX019309.D

Acq: 05 Nov 2020 13:26

Instrument :

MSVOA_X

ClientSampleId :

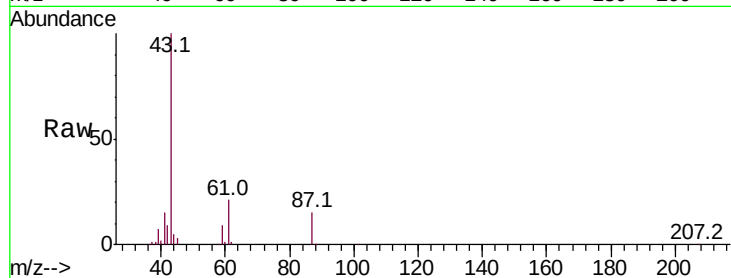
Tot Ion: 43 Resp: 77853

Ion Ratio Lower Upper

43 100

61 21.4 17.8 26.6

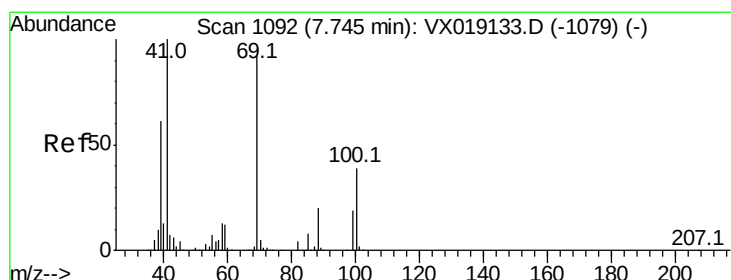
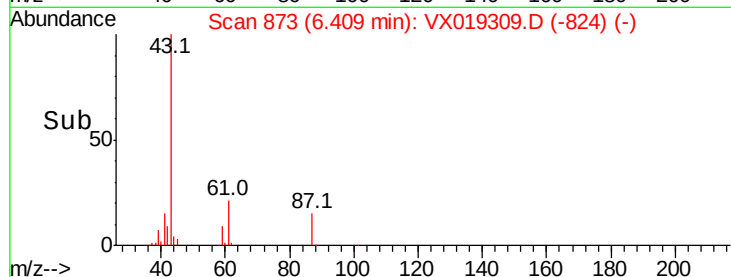
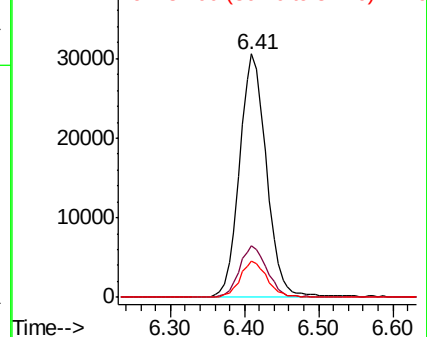
87 14.8 12.6 19.0



Abundance Ion 43.00 (42.70 to 43.70): VX0

Ion 61.00 (60.70 to 61.70): VX0

Ion 87.00 (86.70 to 87.70): VX0



#48

Methyl methacrylate

Concen: 39.704 ug/l

RT: 7.85 min Scan# 1109

Delta R.T. 0.10 min

Lab File: VX019309.D

Acq: 05 Nov 2020 13:26

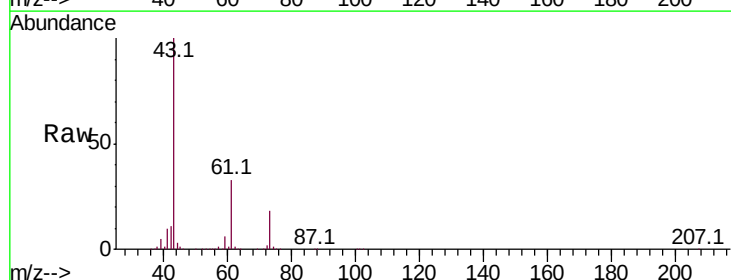
Tgt Ion: 41 Resp: 126502

Ion Ratio Lower Upper

41 100

69 0.2 75.5 113.3#

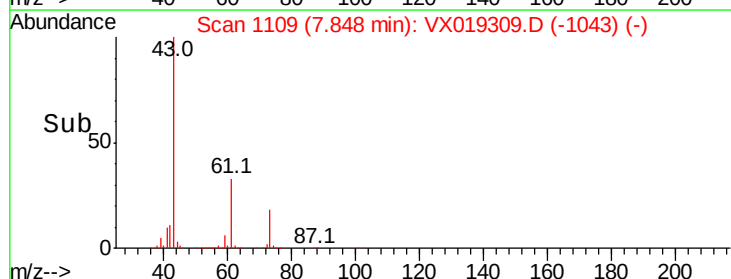
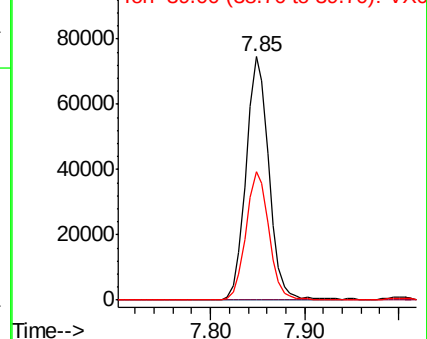
39 53.8 48.9 73.3

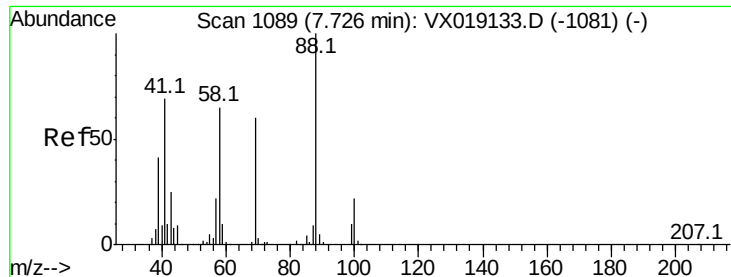


Abundance Ion 41.00 (40.70 to 41.70): VX0

Ion 69.00 (68.70 to 69.70): VX0

Ion 39.00 (38.70 to 39.70): VX0





#49

1,4-Dioxane

Concen: 3.006 ug/l

RT: 7.85 min Scan# 1109

Delta R.T. 0.12 min

Lab File: VX019309.D

Acq: 05 Nov 2020 13:26

Instrument :

MSVOA_X

ClientSampleId :

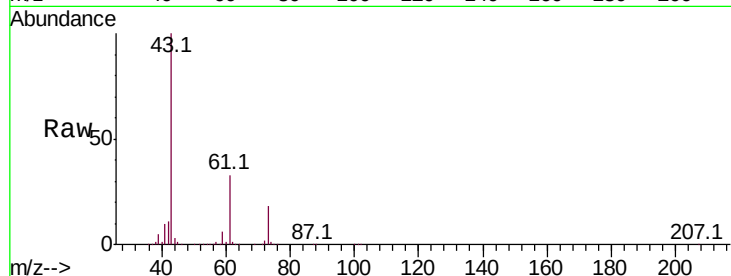
Tot Ion: 88 Resp: 213

Ion Ratio Lower Upper

88 100

43 613711.3 23.0 34.6#

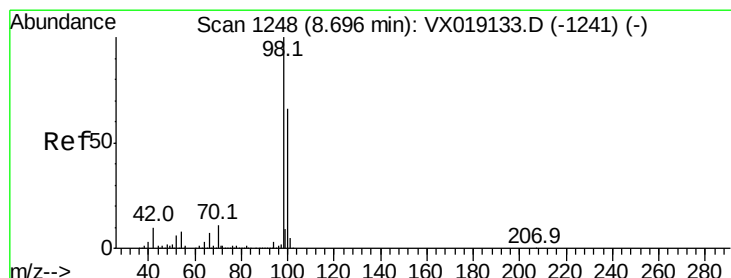
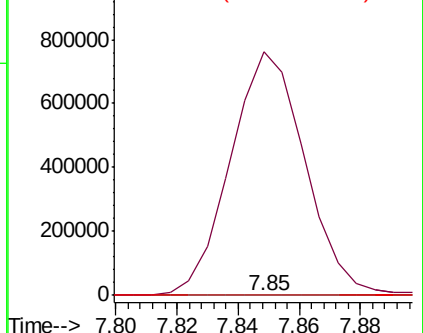
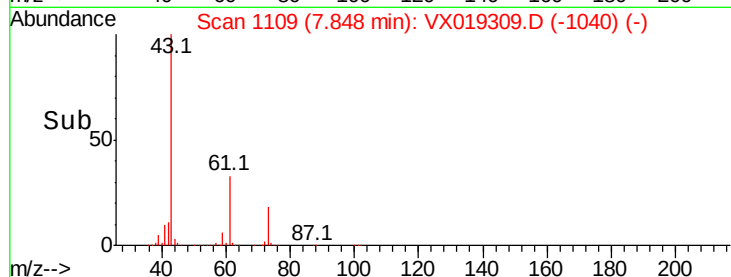
58 2969.0 52.2 78.2#



Abundance Ion 88.00 (87.70 to 88.70): VX0

Ion 43.00 (42.70 to 43.70): VX0

Ion 58.00 (57.70 to 58.70): VX0



#50

Toluene-d8

Concen: 52.425 ug/l

RT: 8.70 min Scan# 1248

Delta R.T. 0.00 min

Lab File: VX019309.D

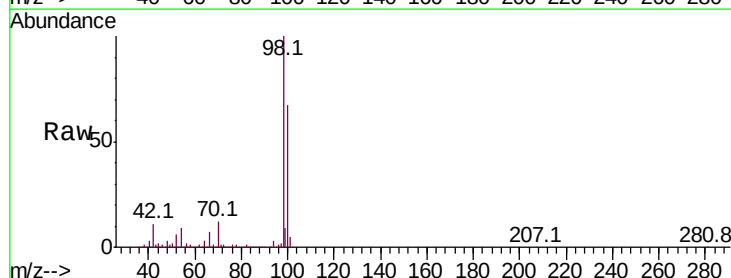
Acq: 05 Nov 2020 13:26

Tgt Ion: 98 Resp: 572391

Ion Ratio Lower Upper

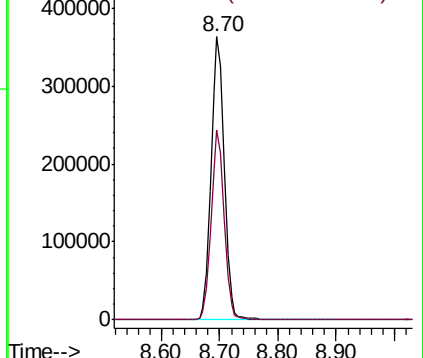
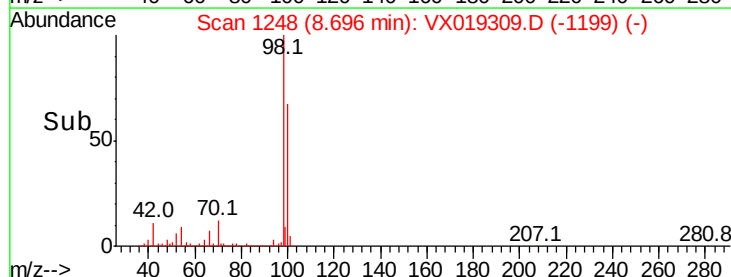
98 100

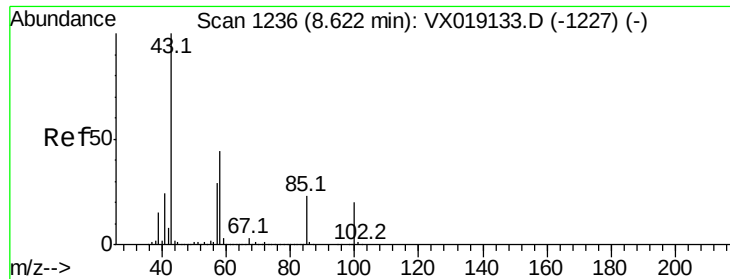
100 65.9 53.0 79.6



Abundance Ion 98.00 (97.70 to 98.70): VX0

Ion 100.00 (99.70 to 100.70): V





#51

4-Methyl-2-Pentanone

Concen: 19.957 ug/l

RT: 8.59 min Scan# 1231

Delta R.T. -0.03 min

Lab File: VX019309.D

Acq: 05 Nov 2020 13:26

Instrument :

MSVOA_X

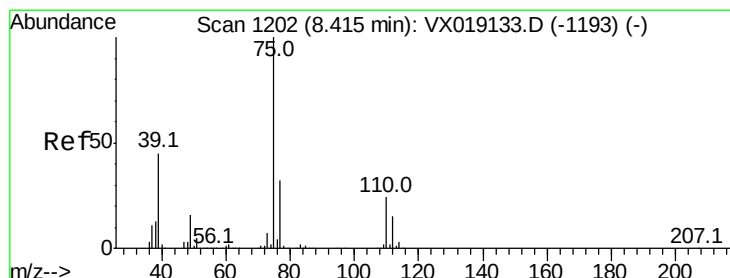
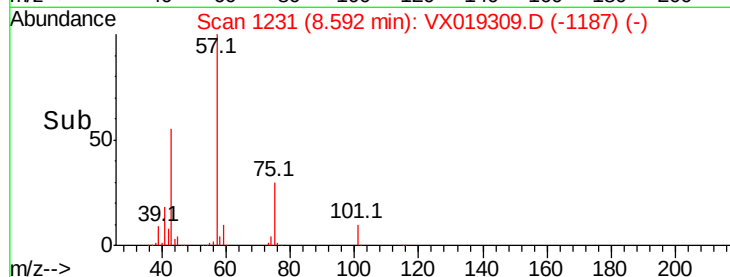
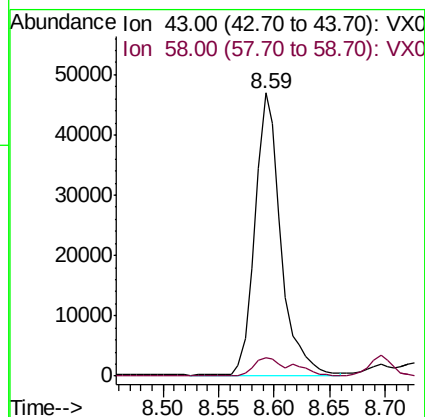
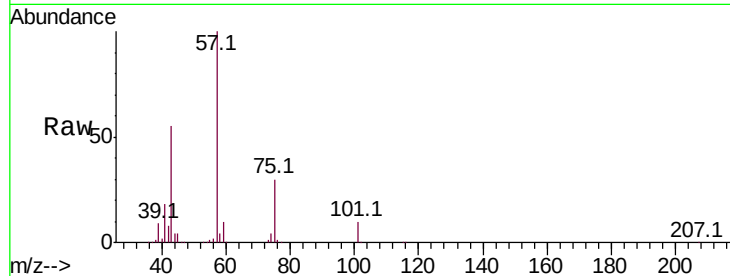
ClientSampled :

Tot Ion: 43 Resp: 75930

Ion Ratio Lower Upper

43 100

58 9.8 35.0 52.4#



#54

cis-1,3-Dichloropropene

Concen: 7.304 ug/l

RT: 8.59 min Scan# 1231

Delta R.T. 0.18 min

Lab File: VX019309.D

Acq: 05 Nov 2020 13:26

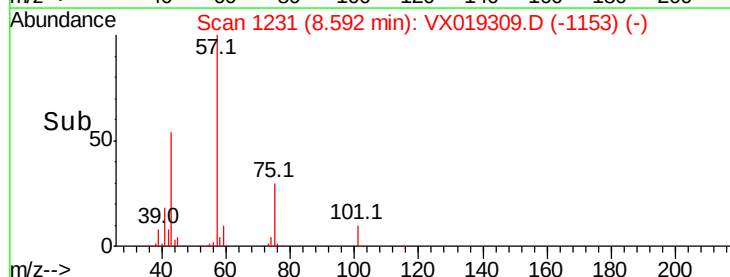
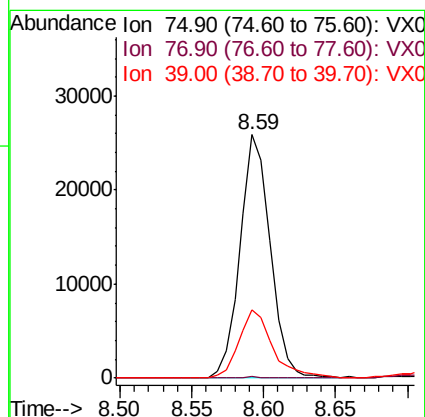
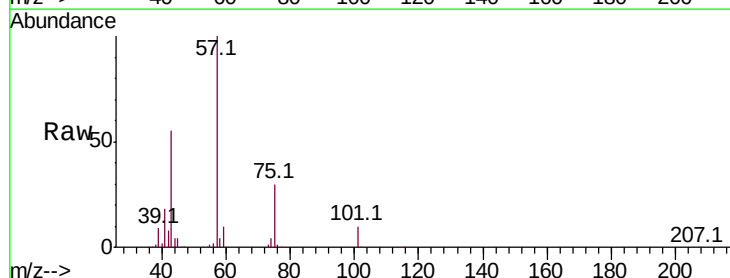
Tgt Ion: 75 Resp: 37810

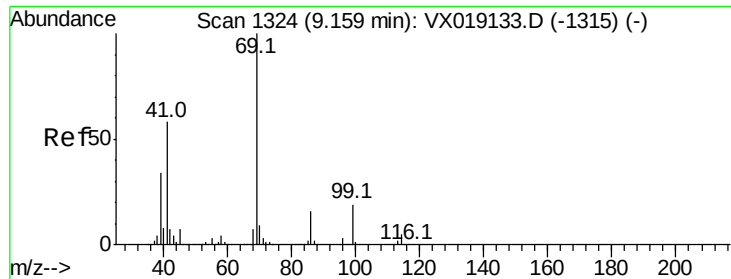
Ion Ratio Lower Upper

75 100

77 0.5 25.5 38.3#

39 27.9 36.2 54.2#





#56

Ethyl methacrylate

Concen: 0.258 ug/l

RT: 9.29 min Scan# 1345

Delta R.T. 0.13 min

Lab File: VX019309.D

Acq: 05 Nov 2020 13:26

Instrument :

MSVOA_X

ClientSampleId :

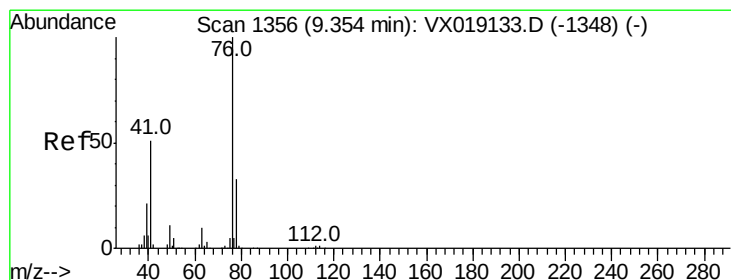
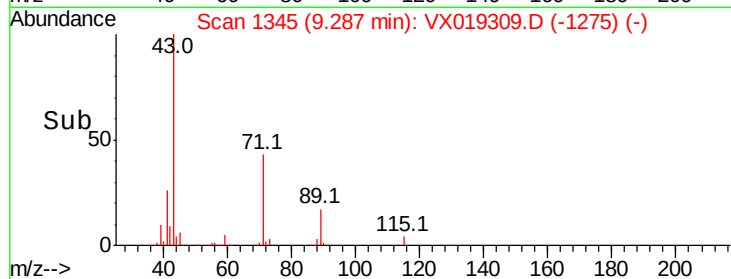
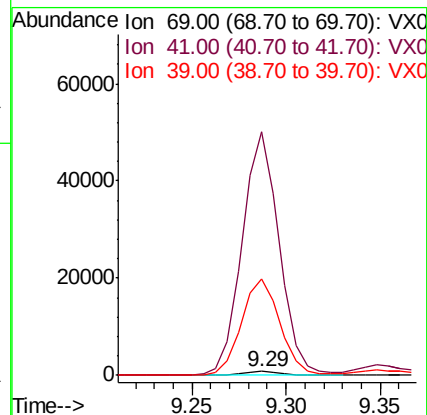
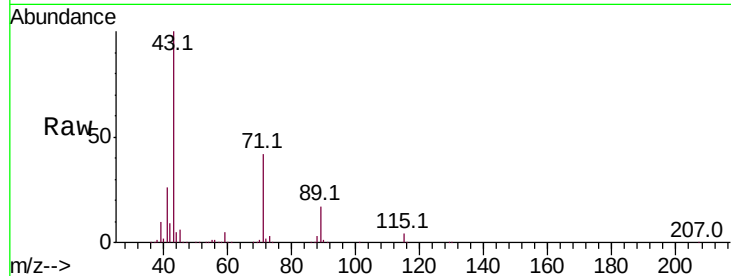
Tot Ion: 69 Resp: 1196

Ion Ratio Lower Upper

69 100

41 5718.2 46.5 69.7#

39 2372.7 27.6 41.4#



#57

1,3-Dichloropropane

Concen: 1.277 ug/l

RT: 9.52 min Scan# 1384

Delta R.T. 0.17 min

Lab File: VX019309.D

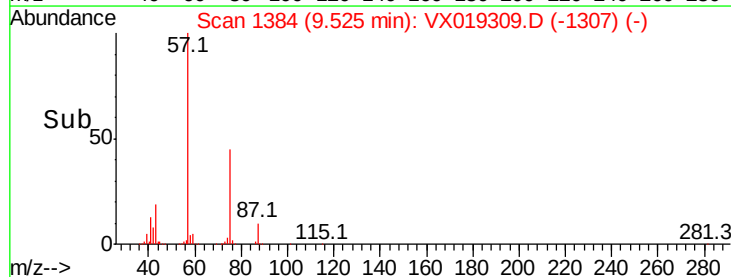
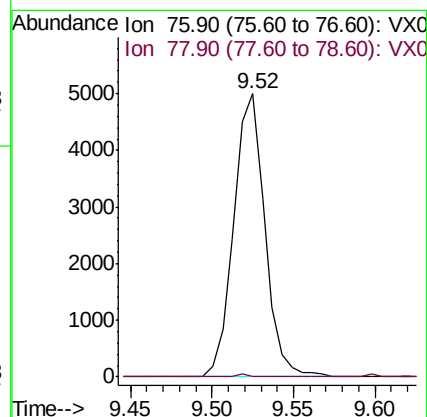
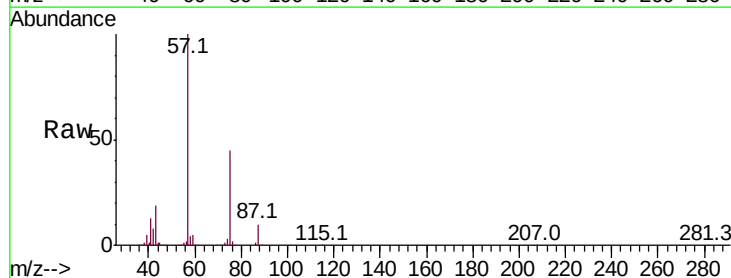
Acq: 05 Nov 2020 13:26

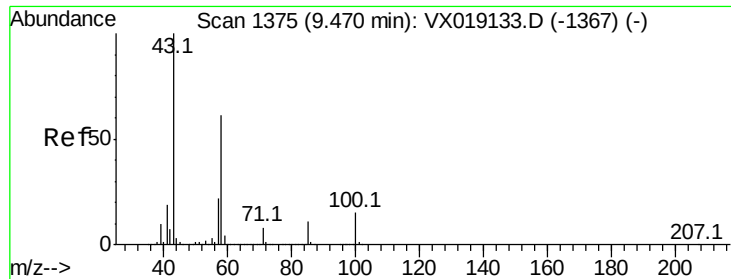
Tgt Ion: 76 Resp: 6613

Ion Ratio Lower Upper

76 100

78 0.3 25.9 38.9#

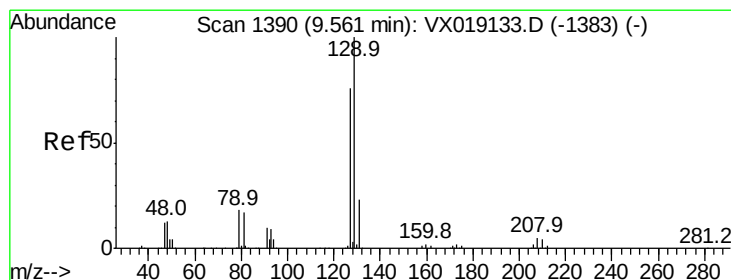
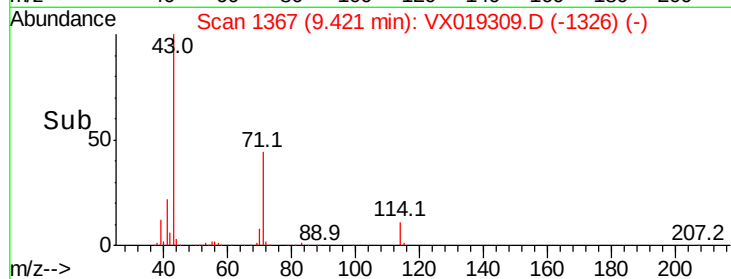
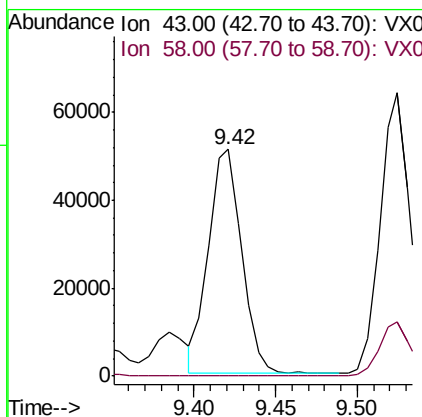
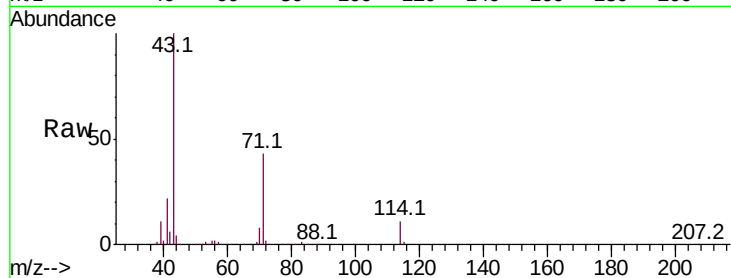




#59
2-Hexanone
Concen: 25.169 ug/l
RT: 9.42 min Scan# 1367
Delta R.T. -0.05 min
Lab File: VX019309.D
Acq: 05 Nov 2020 13:26

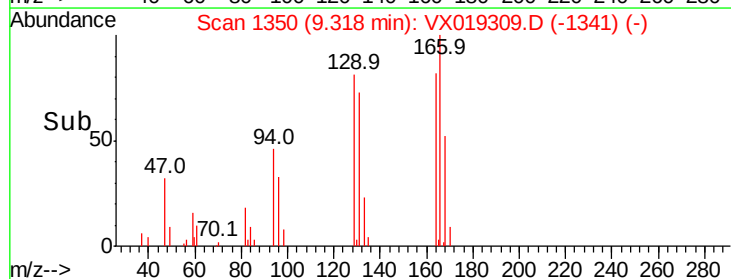
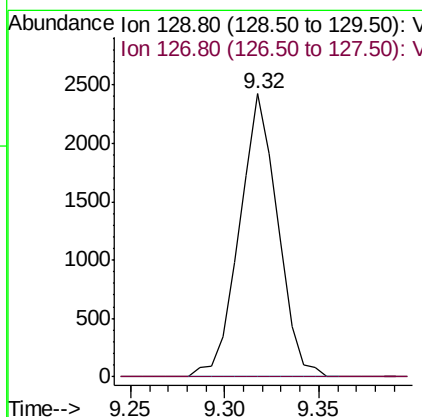
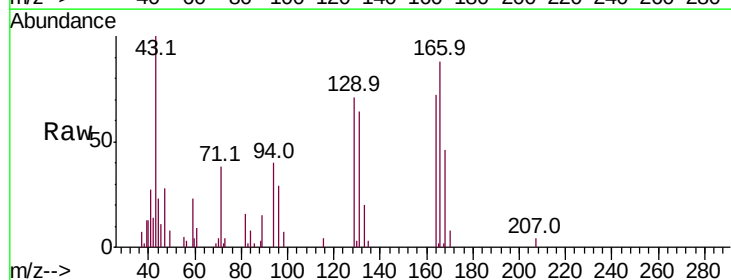
Instrument :
MSVOA_X
ClientSampled :

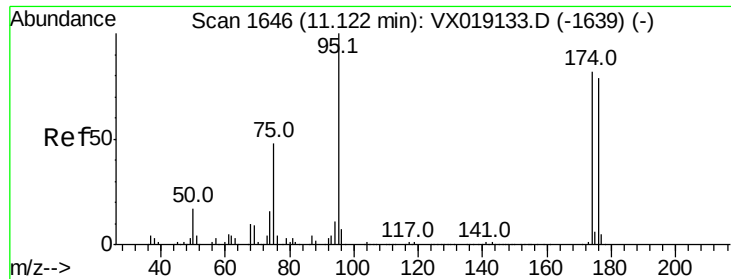
Tot Ion: 43 Resp: 72891
Ion Ratio Lower Upper
43 100
58 0.0 30.5 91.5#



#60
Dibromochloromethane
Concen: 1.023 ug/l
RT: 9.32 min Scan# 1350
Delta R.T. -0.24 min
Lab File: VX019309.D
Acq: 05 Nov 2020 13:26

Tgt Ion:129 Resp: 3410
Ion Ratio Lower Upper
129 100
127 0.0 38.6 115.8#

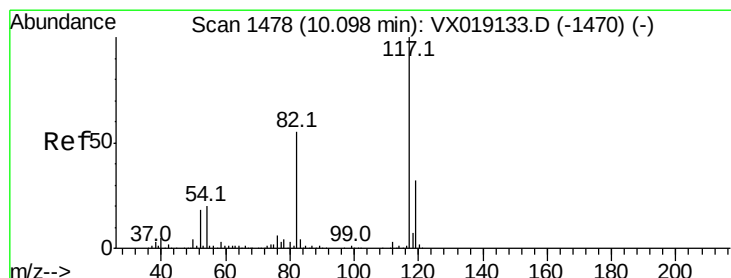
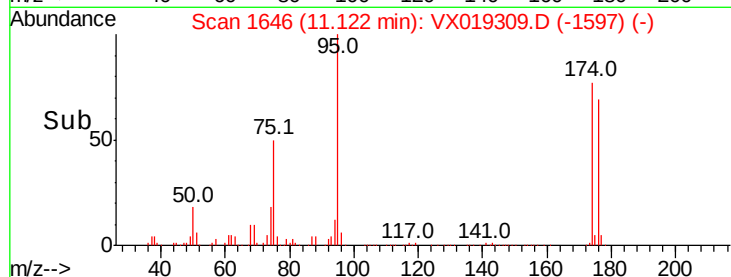
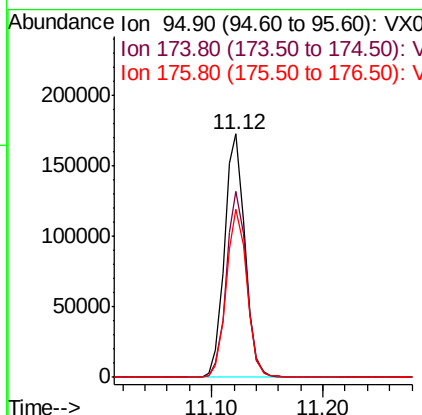
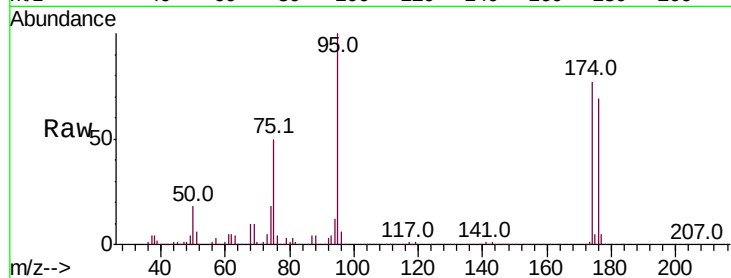




#62
4-Bromofluorobenzene
Concen: 53.001 ug/l
RT: 11.12 min Scan# 1646
Delta R.T. 0.00 min
Lab File: VX019309.D
Acq: 05 Nov 2020 13:26

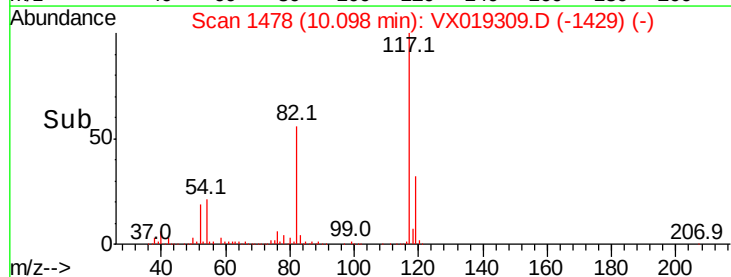
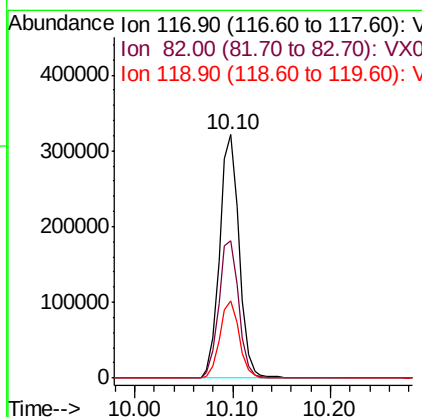
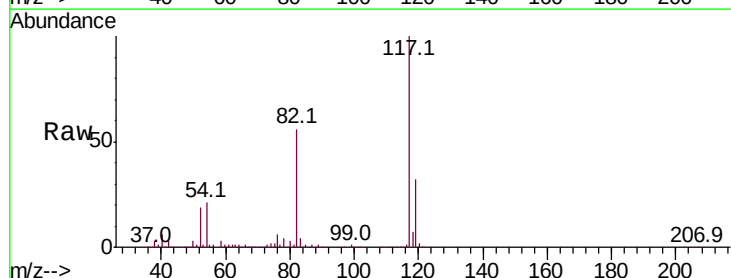
Instrument :
MSVOA_X
ClientSampleId :

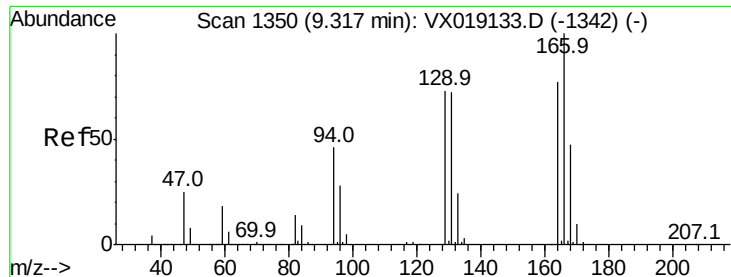
Tot Ion: 95 Resp: 219150
Ion Ratio Lower Upper
95 100
174 75.8 0.0 156.0
176 69.3 0.0 149.8



#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 10.10 min Scan# 1478
Delta R.T. 0.00 min
Lab File: VX019309.D
Acq: 05 Nov 2020 13:26

Tgt Ion: 117 Resp: 442655
Ion Ratio Lower Upper
117 100
82 56.2 43.6 65.4
119 31.8 25.5 38.3





#64

Tetrachloroethene

Concen: 1.052 ug/l

RT: 9.32 min Scan# 1350

Delta R.T. 0.00 min

Lab File: VX019309.D

Acq: 05 Nov 2020 13:26

Instrument :

MSVOA_X

ClientSampleId :

Tot Ion:164 Resp: 3549

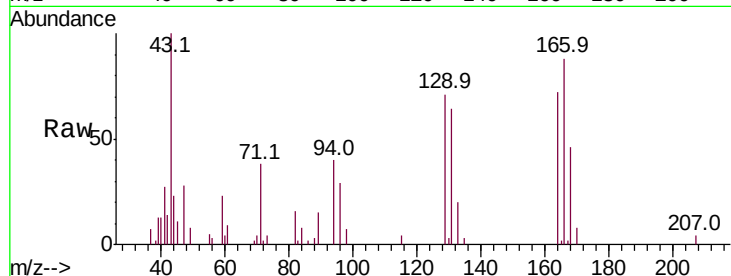
Ion Ratio Lower Upper

164 100

166 122.0 104.1 156.1

129 98.2 76.2 114.4

131 89.4 74.6 112.0

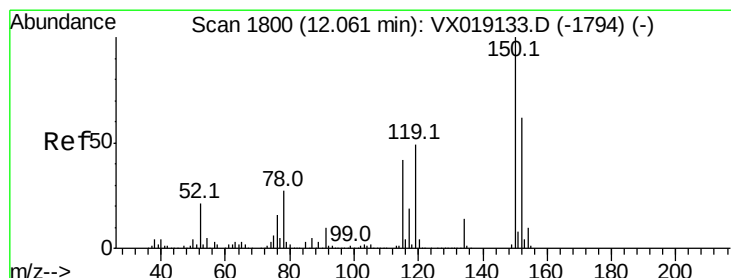
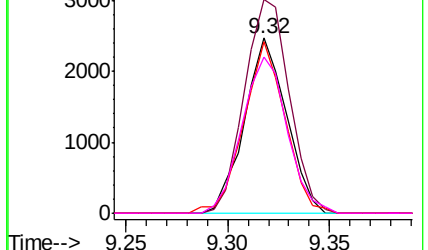
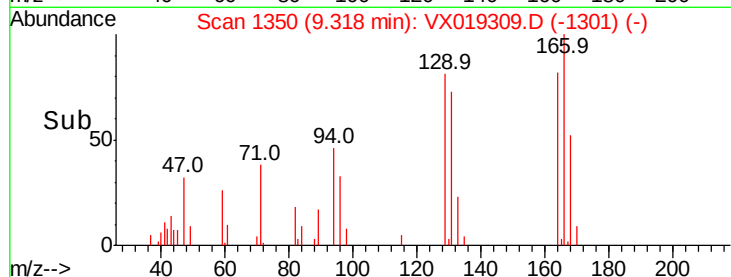


Abundance Ion 163.80 (163.50 to 164.50): V

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: VX019309.D

Acq: 05 Nov 2020 13:26

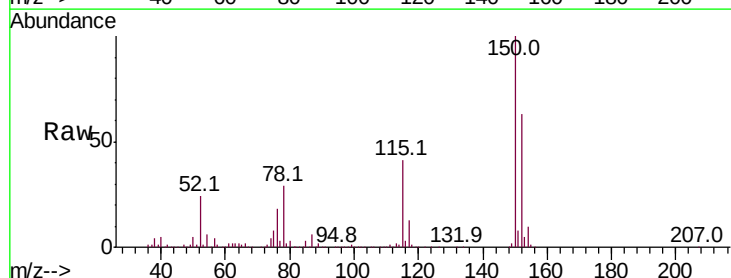
Tgt Ion:152 Resp: 211458

Ion Ratio Lower Upper

152 100

115 62.5 41.9 125.7

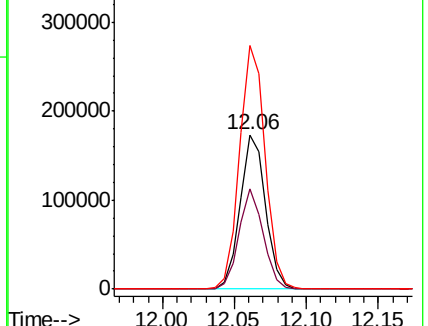
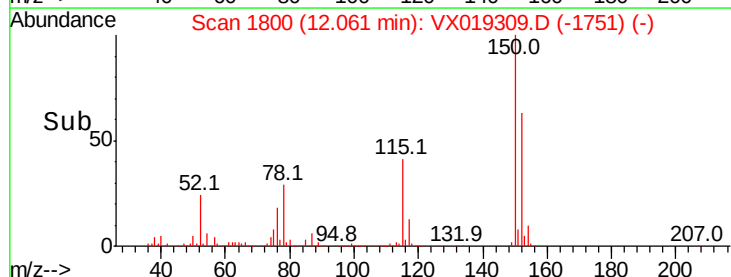
150 159.7 0.0 347.8

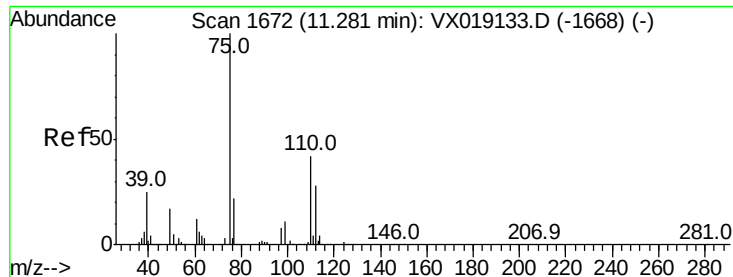


Abundance Ion 151.90 (151.60 to 152.60): V

Ion 114.90 (114.60 to 115.60): V

Ion 149.90 (149.60 to 150.60): V





#76

1,2,3-Trichloropropane

Concen: 25.916 ug/l

RT: 11.12 min Scan# 1646

Delta R.T. -0.16 min

Lab File: VX019309.D

Acq: 05 Nov 2020 13:26

Instrument :

MSVOA_X

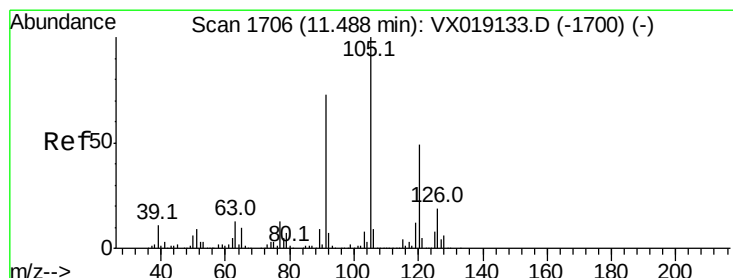
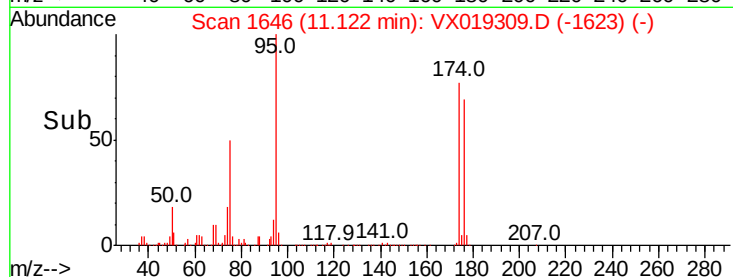
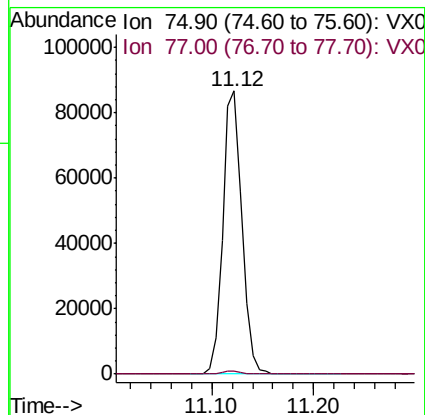
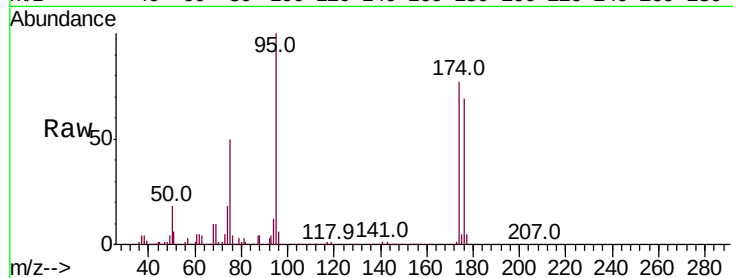
ClientSampleId :

Tot Ion: 75 Resp: 113155

Ion Ratio Lower Upper

75 100

77 1.2 20.3 60.9#



#80

1,3,5-Trimethylbenzene

Concen: 0.886 ug/l

RT: 11.49 min Scan# 1707

Delta R.T. 0.01 min

Lab File: VX019309.D

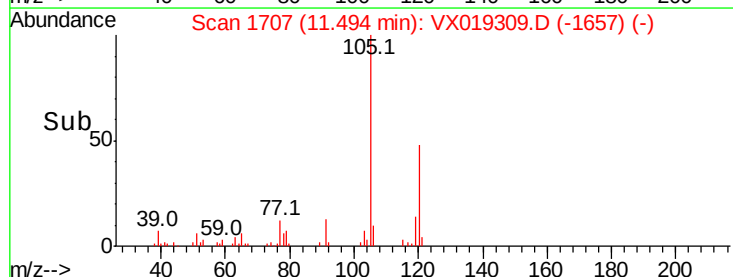
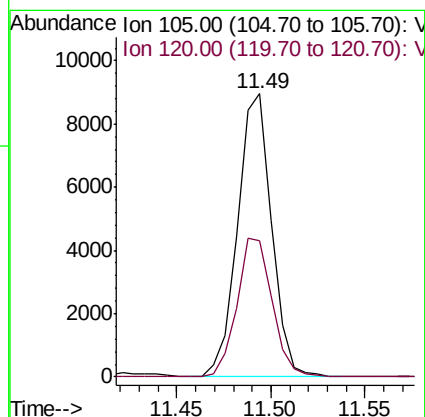
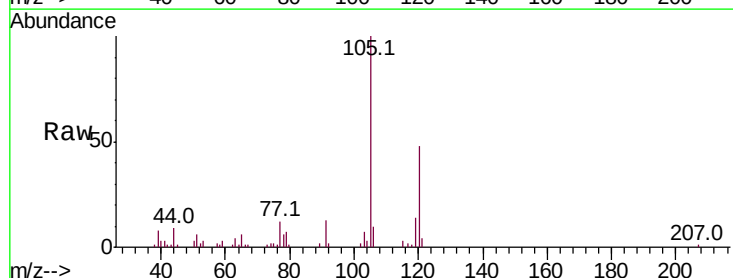
Acq: 05 Nov 2020 13:26

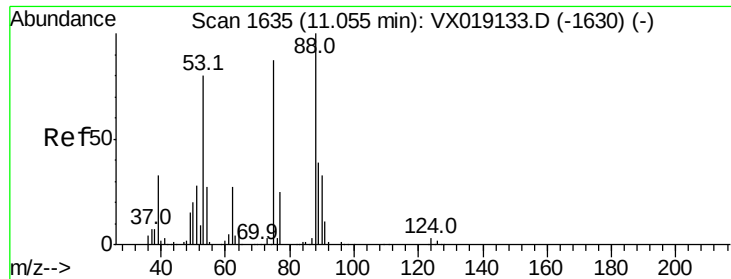
Tgt Ion: 105 Resp: 11207

Ion Ratio Lower Upper

105 100

120 50.8 24.3 72.8





#81
 trans-1,4-Dichloro-2-butene
 Concen: 68.238 ug/l
 RT: 11.12 min Scan# 1646
 Delta R.T. 0.07 min
 Lab File: VX019309.D
 Acq: 05 Nov 2020 13:26

Instrument :
 MSVOA_X
 ClientSampleId :

Tot Ion: 75 Resp: 113155
 Ion Ratio Lower Upper
 75 100
 53 0.0 73.3 109.9#
 89 0.0 38.2 57.2#

