

Data Path : Z:\VOASRV\HPCHEM1\MSVOA X\DATA\VX120920\
 Data File : VX019781.D
 Acq On : 09 Dec 2020 16:11
 Operator : JC/MD
 Sample : L4971-06
 Misc : 5.0mL/MSVOA X/WATER
 ALS Vial : 14 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :
 5S1-B-TOP

Quant Time: Dec 10 05:41:00 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	333478	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	6.83	114	536255	50.00	ug/l	0.00
63) Chlorobenzene-d5	10.09	117	487534	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.06	152	208331	50.00	ug/l	0.00

System Monitoring Compounds

33) 1,2-Dichloroethane-d4	6.03	65	203402	46.41	ug/l	0.00
Spiked Amount	50.000	Range	61 - 141	Recovery	=	92.82%
35) Dibromofluoromethane	5.46	113	164990	47.61	ug/l	0.00
Spiked Amount	50.000	Range	69 - 133	Recovery	=	95.22%
50) Toluene-d8	8.70	98	654157	49.44	ug/l	0.00
Spiked Amount	50.000	Range	65 - 126	Recovery	=	98.88%
62) 4-Bromofluorobenzene	11.12	95	225937	44.86	ug/l	0.00
Spiked Amount	50.000	Range	58 - 135	Recovery	=	89.72%

Target Compounds

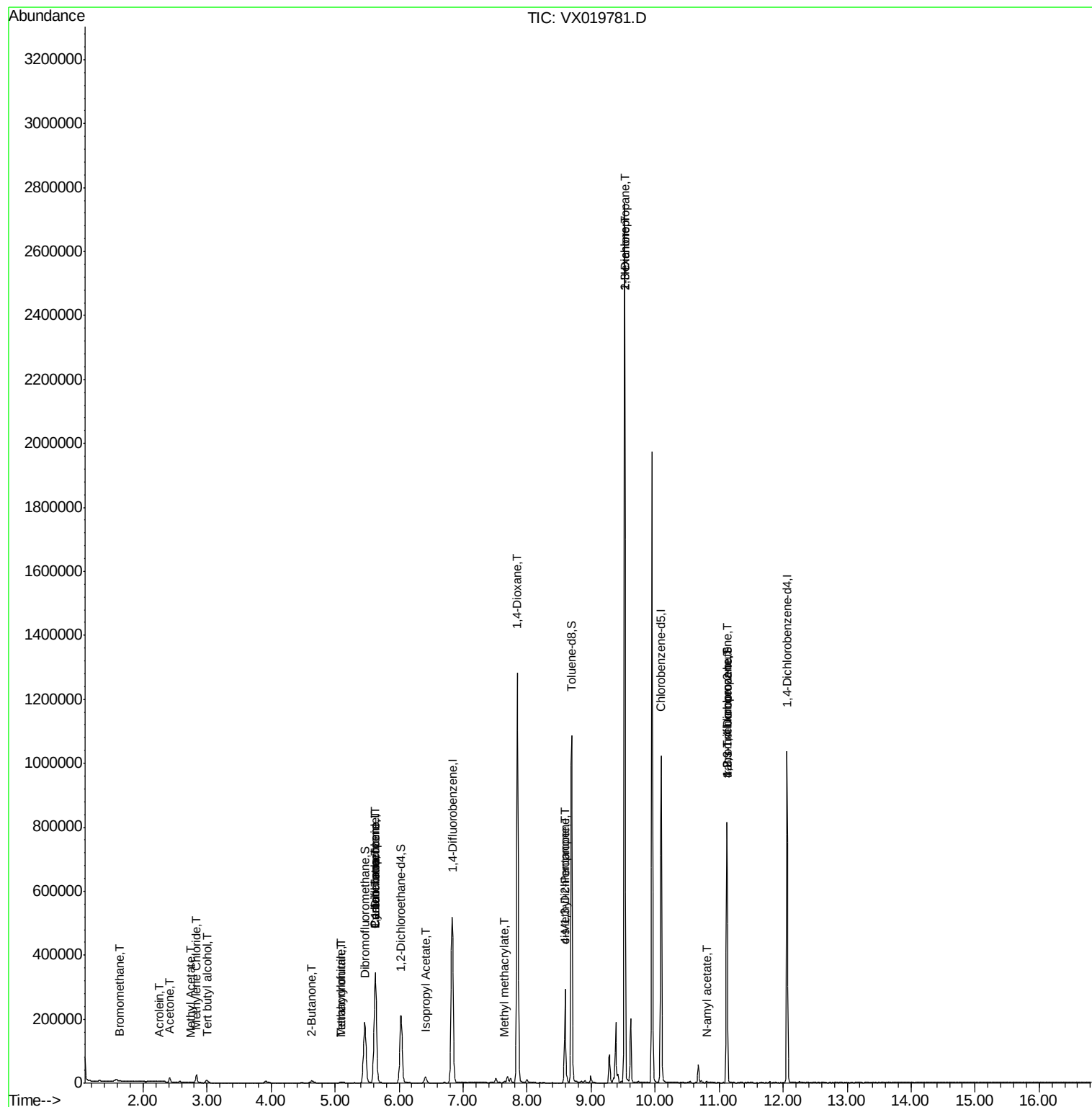
					Qvalue
5) Bromomethane	1.64	94	801	0.637 ug/l #	78
11) Tert butyl alcohol	2.99	59	5331	3.338 ug/l #	82
13) Acrolein	2.26	56	139	0.287 ug/l #	1
16) Acetone	2.42	43	14463	8.779 ug/l	99
18) Methyl Acetate	2.75	43	1748	0.434 ug/l #	88
20) Methylene Chloride	2.83	84	11443	1.668 ug/l	98
25) 2-Butanone	4.63	43	7161	2.829 ug/l	99
29) Tetrahydrofuran	5.10	42	3063	1.878 ug/l	90
31) Cyclohexane	5.62	56	6266	1.149 ug/l #	1
36) 1,1-Dichloropropene	5.63	75	24940	5.147 ug/l #	49
38) Carbon Tetrachloride	5.63	117	32344	6.816 ug/l #	15
41) Methacrylonitrile	5.09	41	1763	0.656 ug/l #	44
43) Isopropyl Acetate	6.41	43	23728	2.983 ug/l	99
48) Methyl methacrylate	7.65	41	7102	1.815 ug/l #	10
49) 1,4-Dioxane	7.85	88	205	2.163 ug/l #	1
51) 4-Methyl-2-Pentanone	8.59	43	92359	19.018 ug/l #	47
54) cis-1,3-Dichloropropene	8.59	75	49706	8.317 ug/l #	58
57) 1,3-Dichloropropane	9.52	76	25090	3.938 ug/l #	43
59) 2-Hexanone	9.52	43	300439	79.811 ug/l #	46
74) N-amyl acetate	10.81	43	1753	0.307 ug/l #	46
76) 1,2,3-Trichloropropane	11.12	75	107103	22.922 ug/l #	39
81) trans-1,4-Dichloro-2-buten	11.12	75	107103	66.263 ug/l #	12

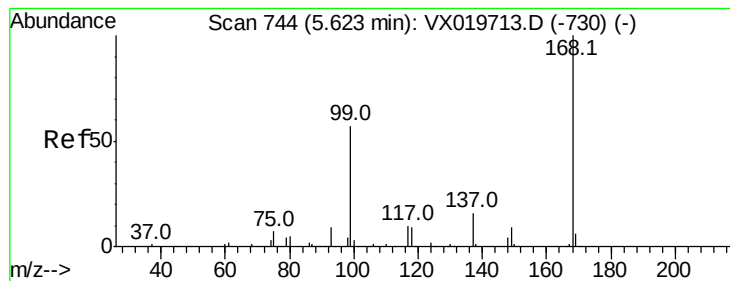
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\V0ASRV\HPCHEM1\MSVOA X\DATA\VX120920\
Data File : VX019781.D
Acq On : 09 Dec 2020 16:11
Operator : JC/MD
Sample : L4971-06
Misc : 5.0mL/MSVOA X/WATER
ALS Vial : 14 Sample Multiplier: 1

Instrument :
MSVOA_X
ClientSampleId :
5S1-B-TOP

Quant Time: Dec 10 05:41:00 2020
Quant Method : Z:\V0ASRV\HPCHEM1\MSVOA_X\METHOD\82X120420W.M
Quant Title : SW846 8260
QLast Update : Fri Dec 04 15:32:53 2020
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: VX019781.D

Acq: 09 Dec 2020 16:11

Instrument :

MSVOA_X

ClientSampled :

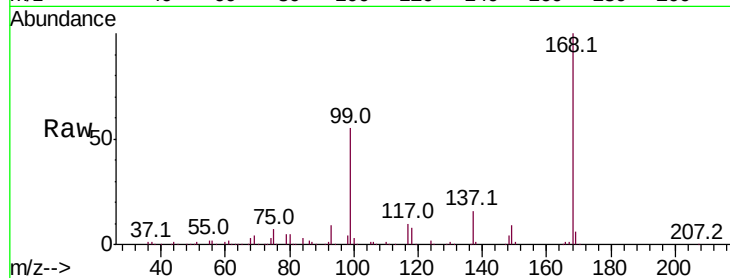
5S1-B-TOP

Tot Ion:168 Resp: 333478

Ion Ratio Lower Upper

168 100

99 55.0 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

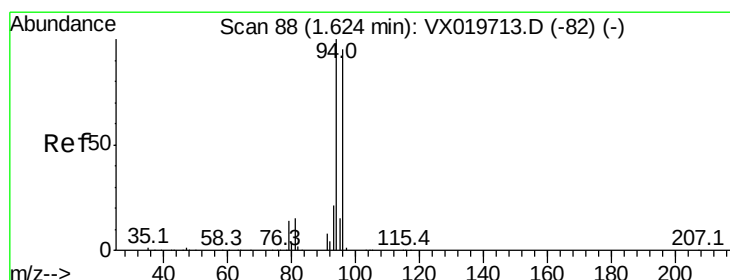
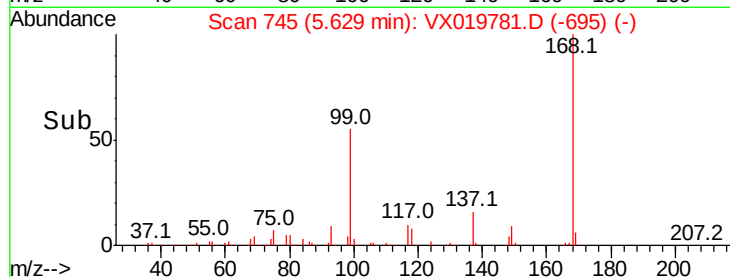
100000

50000

0

Time-->

5.50 5.60 5.70 5.80



#5

Bromomethane

Concen: 0.637 ug/l

RT: 1.64 min Scan# 90

Delta R.T. 0.01 min

Lab File: VX019781.D

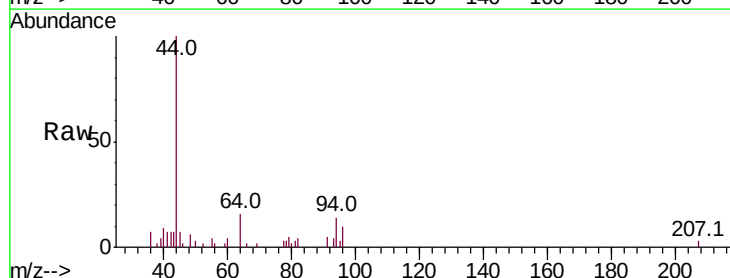
Acq: 09 Dec 2020 16:11

Tgt Ion: 94 Resp: 801

Ion Ratio Lower Upper

94 100

96 74.1 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

400

300

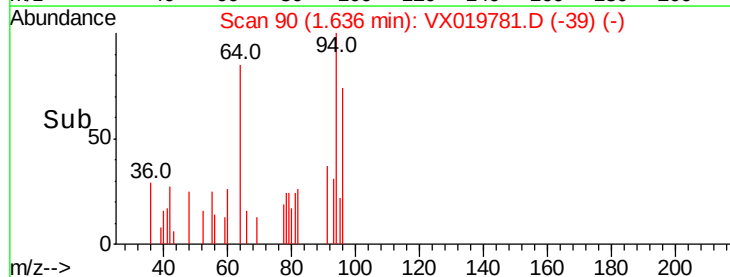
200

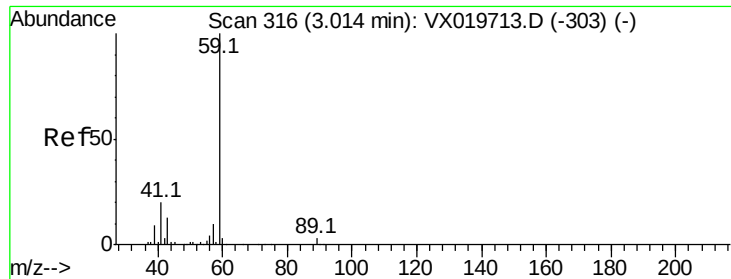
100

0

Time-->

1.60 1.65 1.70

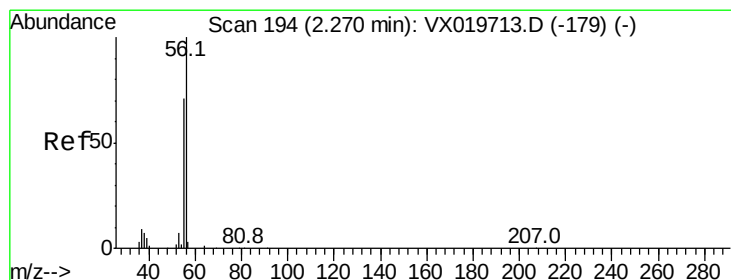
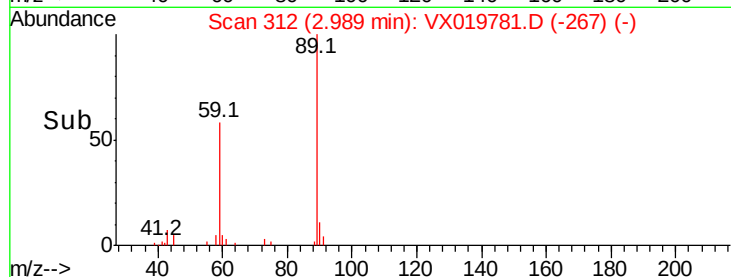
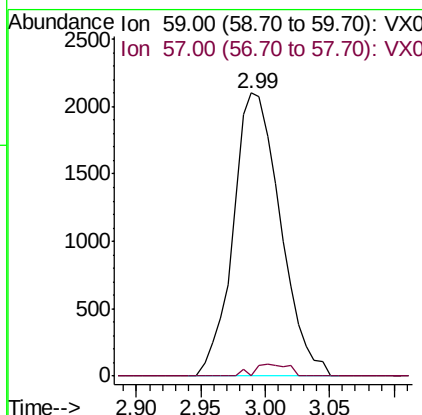
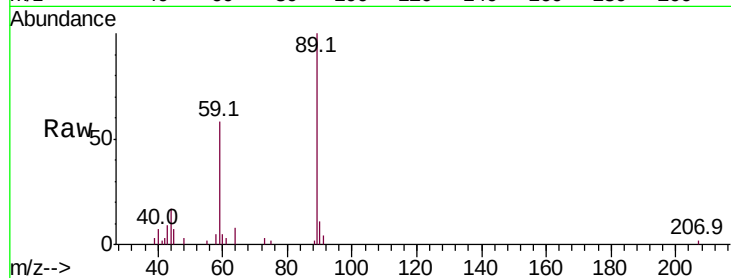




#11
Tert butyl alcohol
Concen: 3.338 ug/l
RT: 2.99 min Scan# 312
Delta R.T. -0.02 min
Lab File: VX019781.D
Acq: 09 Dec 2020 16:11

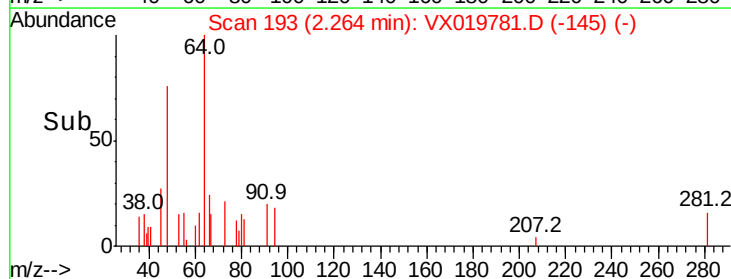
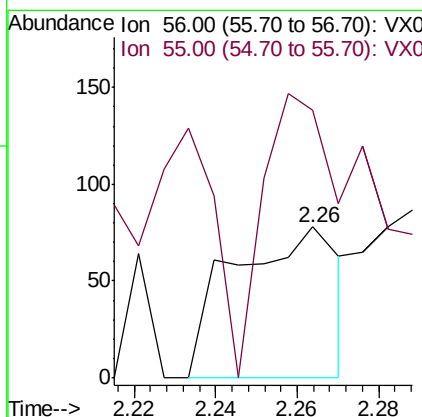
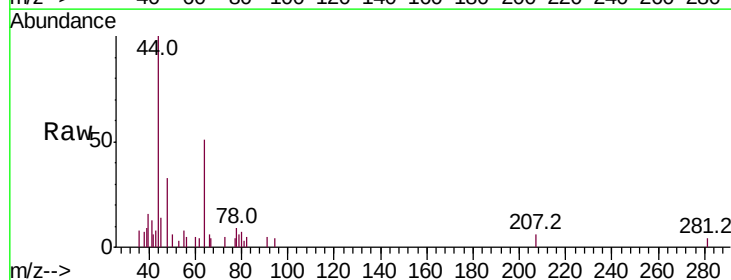
Instrument :
MSVOA_X
ClientSampleId :
5S1-B-TOP

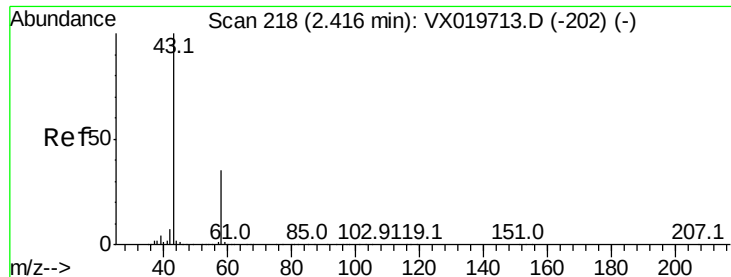
Tot Ion: 59 Resp: 5331
Ion Ratio Lower Upper
59 100
57 3.2 7.8 11.8#



#13
Acrolein
Concen: 0.287 ug/l
RT: 2.26 min Scan# 193
Delta R.T. -0.01 min
Lab File: VX019781.D
Acq: 09 Dec 2020 16:11

Tgt Ion: 56 Resp: 139
Ion Ratio Lower Upper
56 100
55 226.6 56.4 84.6#





#16

Acetone

Concen: 8.779 ug/l

RT: 2.42 min Scan# 218

Delta R.T. 0.00 min

Lab File: VX019781.D

Acq: 09 Dec 2020 16:11

Instrument :

MSVOA_X

ClientSampleId :

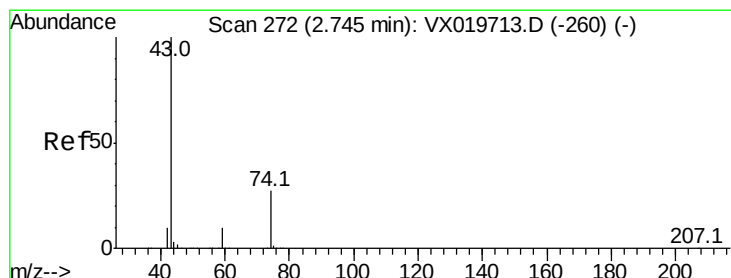
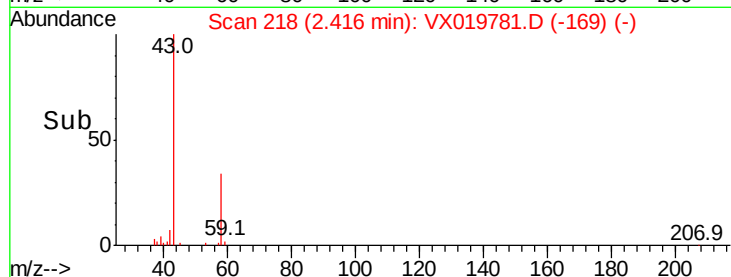
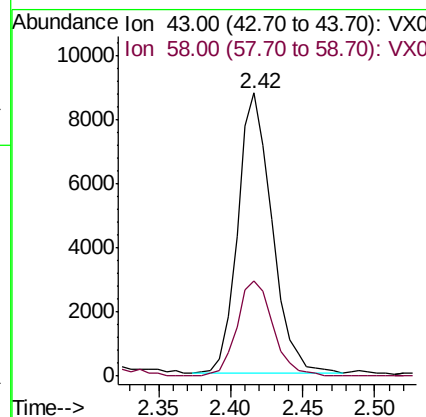
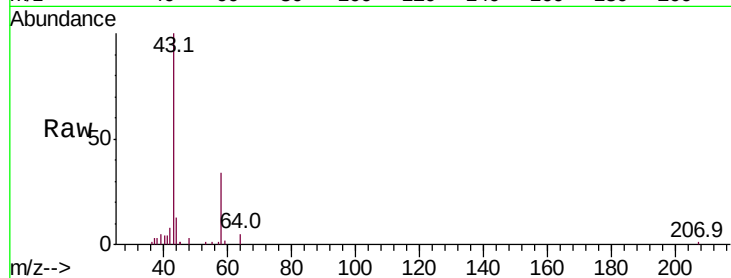
5S1-B-TOP

Tot Ion: 43 Resp: 14463

Ion Ratio Lower Upper

43 100

58 34.0 27.8 41.8



#18

Methyl Acetate

Concen: 0.434 ug/l

RT: 2.75 min Scan# 272

Delta R.T. 0.00 min

Lab File: VX019781.D

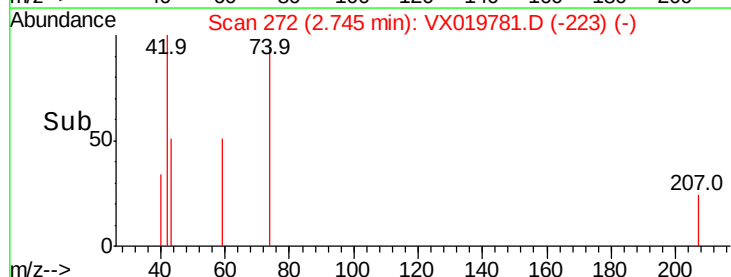
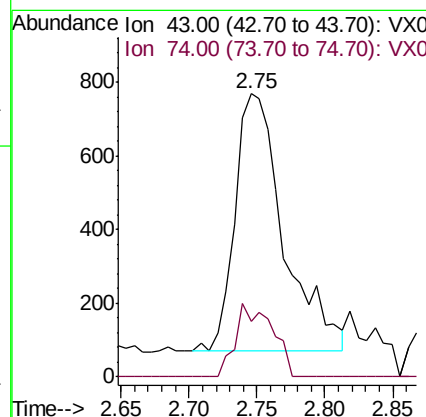
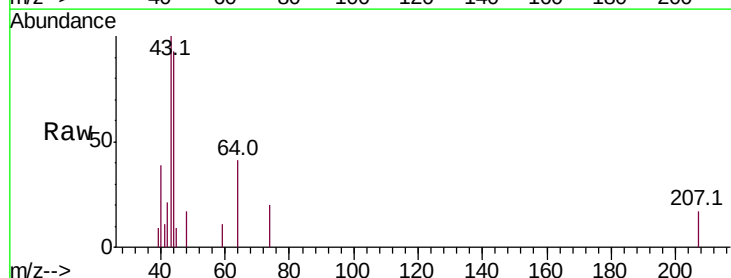
Acq: 09 Dec 2020 16:11

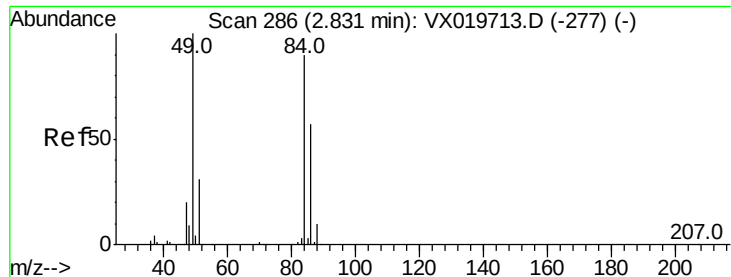
Tgt Ion: 43 Resp: 1748

Ion Ratio Lower Upper

43 100

74 21.4 21.9 32.9#

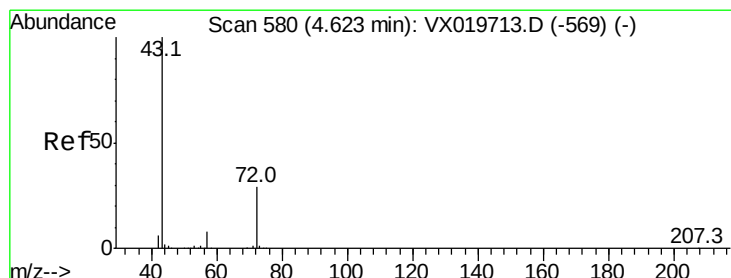
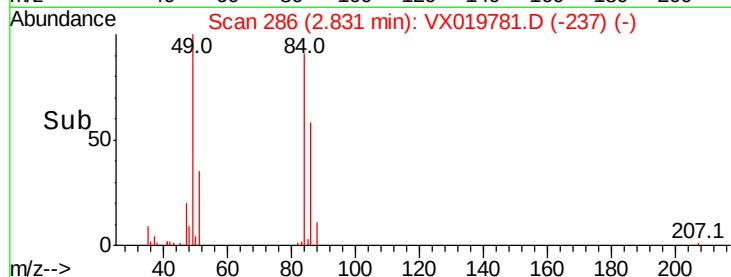
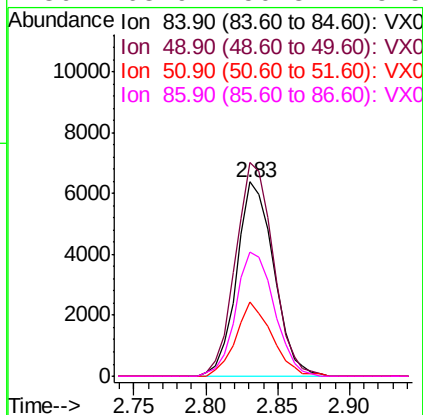
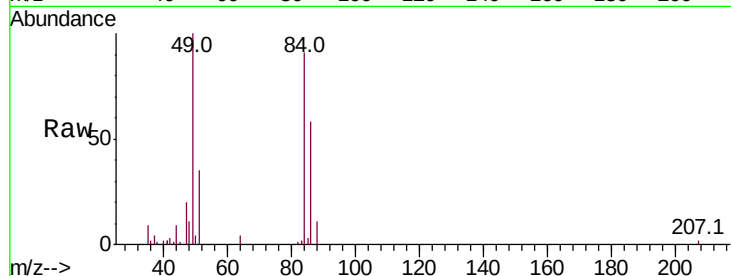




#20
Methvlene Chloride
Concen: 1.668 ug/l
RT: 2.83 min Scan# 286
Delta R.T. 0.00 min
Lab File: VX019781.D
Acq: 09 Dec 2020 16:11

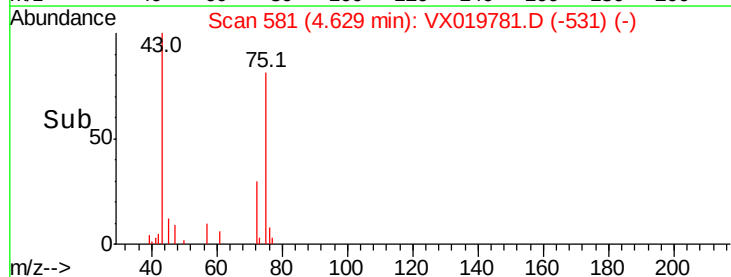
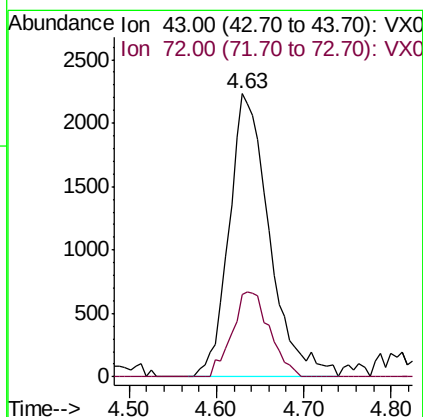
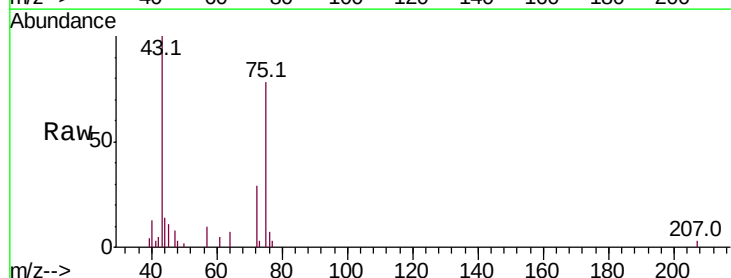
Instrument :
MSVOA_X
ClientSampleId :
5S1-B-TOP

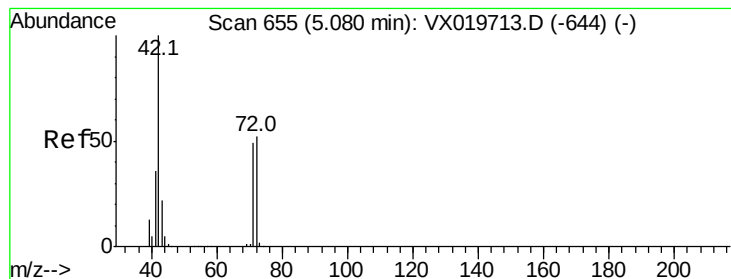
Tot Ion: 84 Resp: 11443
Ion Ratio Lower Upper
84 100
49 109.9 88.6 132.8
51 38.4 27.0 40.6
86 63.9 50.3 75.5



#25
2-Butanone
Concen: 2.829 ug/l
RT: 4.63 min Scan# 581
Delta R.T. 0.01 min
Lab File: VX019781.D
Acq: 09 Dec 2020 16:11

Tgt Ion: 43 Resp: 7161
Ion Ratio Lower Upper
43 100
72 29.0 23.7 35.5





#29

Tetrahydrofuran

Concen: 1.878 ug/l

RT: 5.10 min Scan# 658

Delta R.T. 0.02 min

Lab File: VX019781.D

Acq: 09 Dec 2020 16:11

Instrument :

MSVOA_X

ClientSampled :

5S1-B-TOP

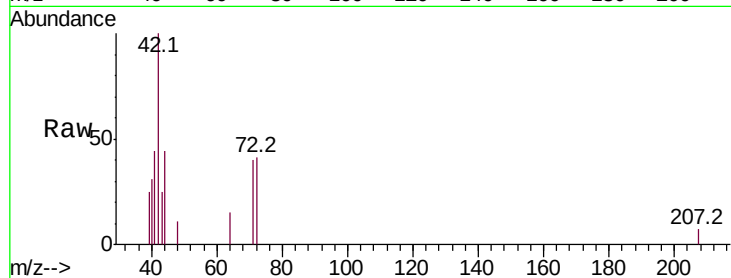
Tot Ion: 42 Resp: 3063

Ion Ratio Lower Upper

42 100

72 47.9 41.7 62.5

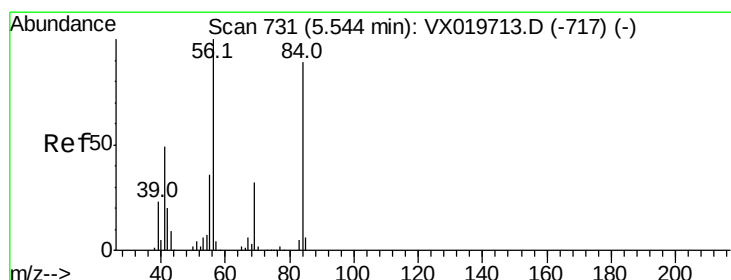
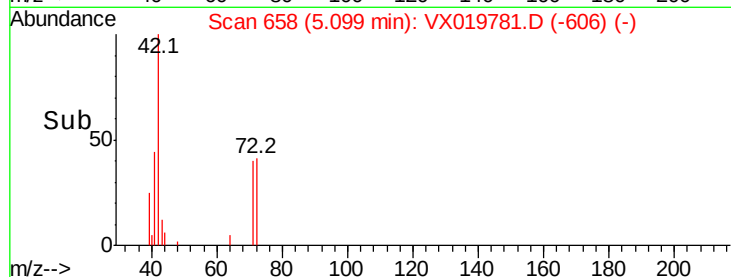
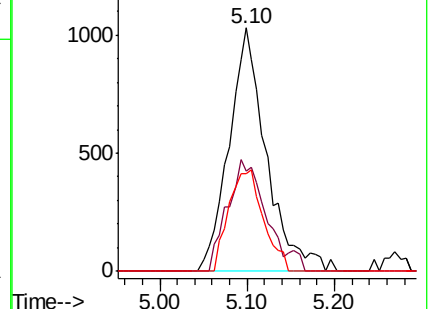
71 38.4 38.4 57.6



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



#31

Cyclohexane

Concen: 1.149 ug/l

RT: 5.62 min Scan# 744

Delta R.T. 0.08 min

Lab File: VX019781.D

Acq: 09 Dec 2020 16:11

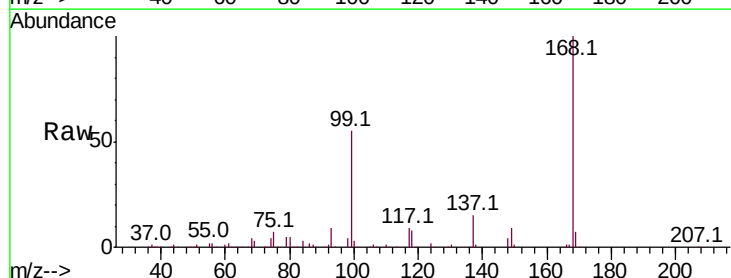
Tgt Ion: 56 Resp: 6266

Ion Ratio Lower Upper

56 100

69 176.0 25.3 37.9#

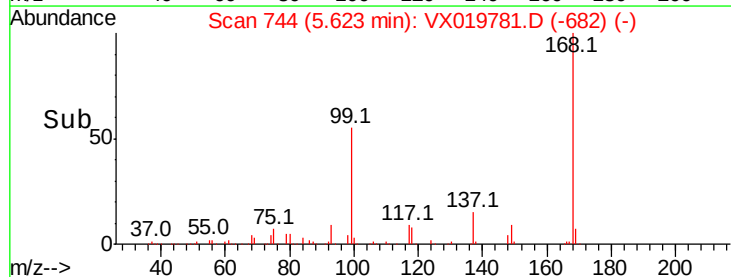
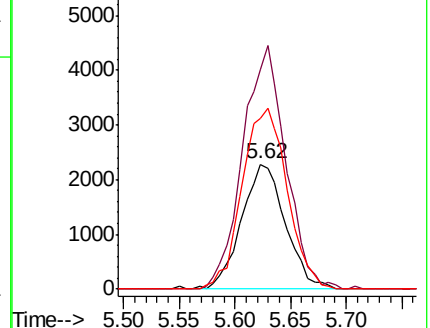
84 136.5 71.4 107.0#

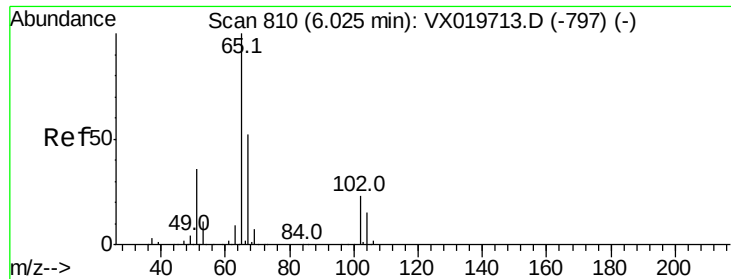


Abundance Ion 56.00 (55.70 to 56.70): VX0

Ion 69.00 (68.70 to 69.70): VX0

Ion 84.00 (83.70 to 84.70): VX0





#33

1,2-Dichloroethane-d4

Concen: 46.408 ug/l

RT: 6.03 min Scan# 810

Delta R.T. 0.00 min

Lab File: VX019781.D

Acq: 09 Dec 2020 16:11

Instrument :

MSVOA_X

ClientSampleId :

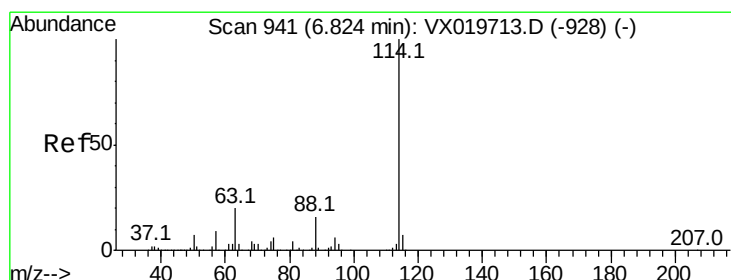
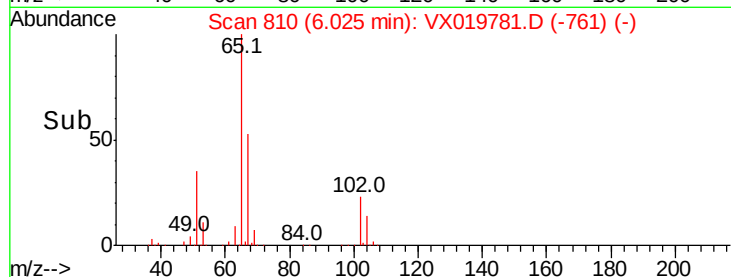
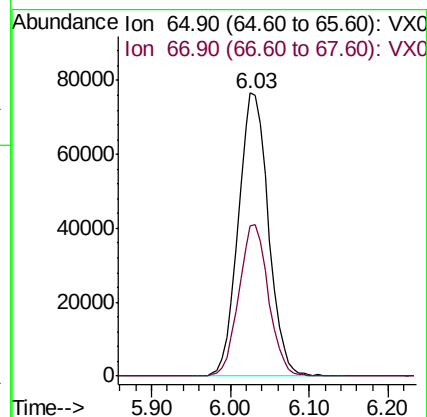
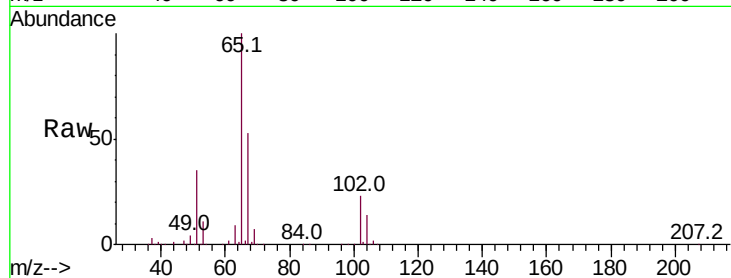
5S1-B-TOP

Tot Ion: 65 Resp: 203402

Ion Ratio Lower Upper

65 100

67 52.6 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: VX019781.D

Acq: 09 Dec 2020 16:11

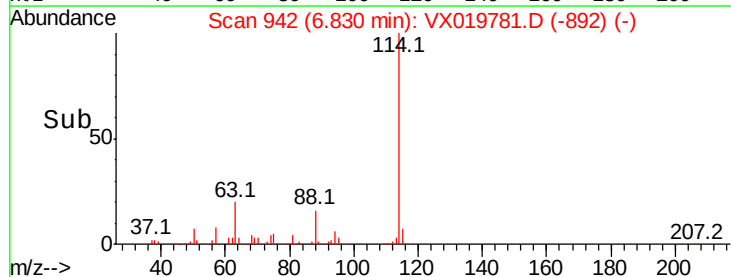
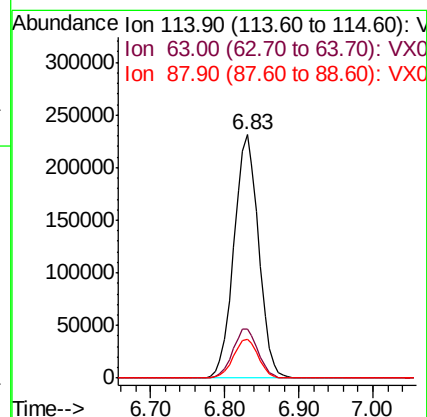
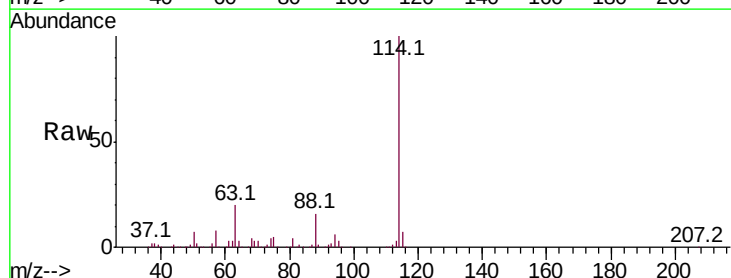
Tgt Ion: 114 Resp: 536255

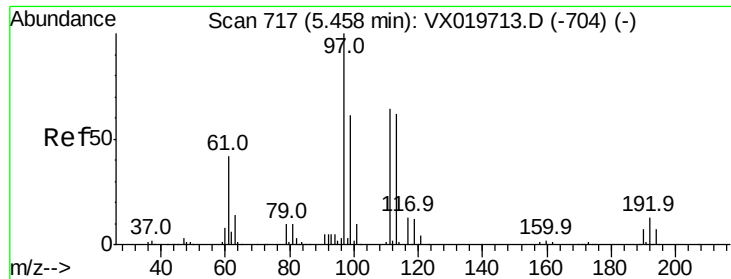
Ion Ratio Lower Upper

114 100

63 20.1 0.0 40.8

88 15.7 0.0 32.8

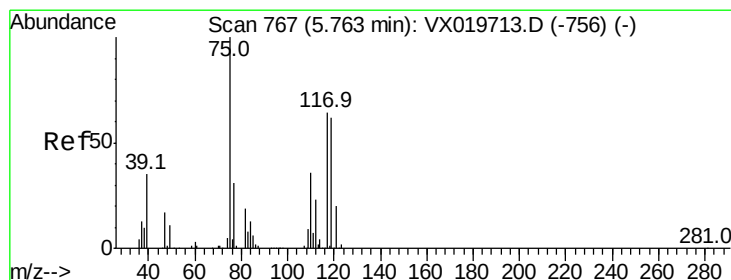
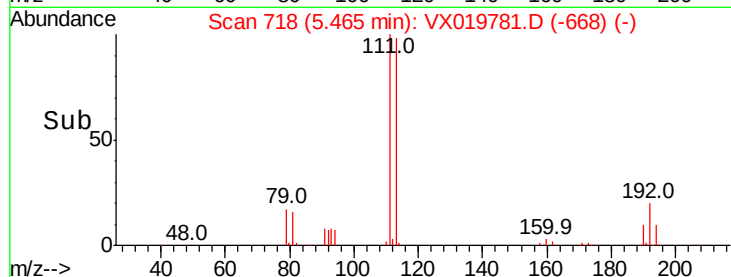
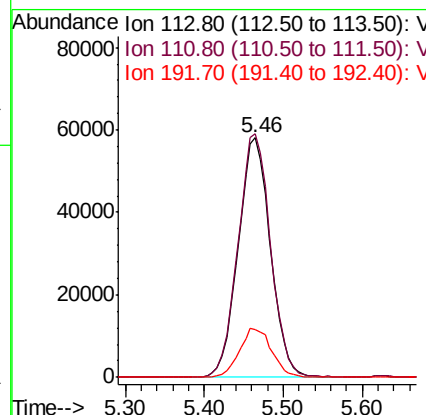
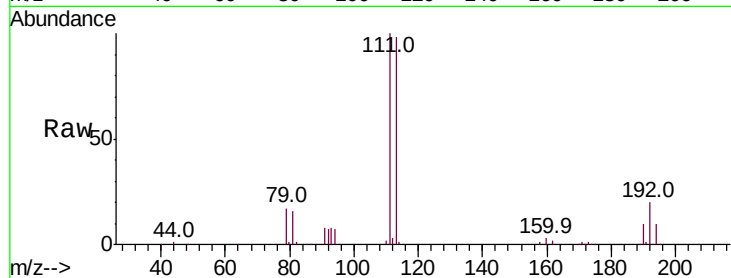




#35
 Dibromofluoromethane
 Concen: 47.606 ug/l
 RT: 5.46 min Scan# 718
 Delta R.T. 0.01 min
 Lab File: VX019781.D
 Acq: 09 Dec 2020 16:11

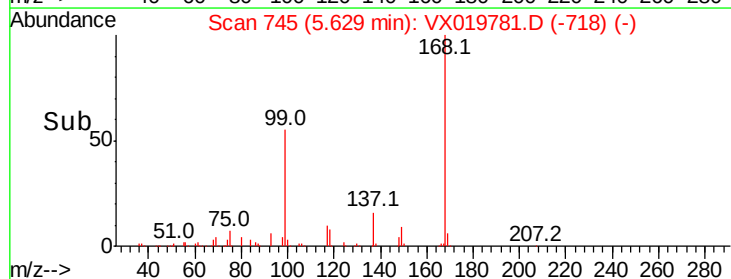
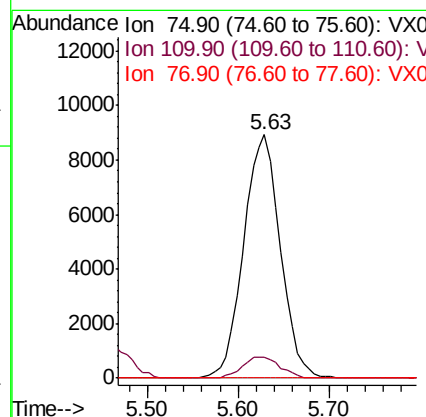
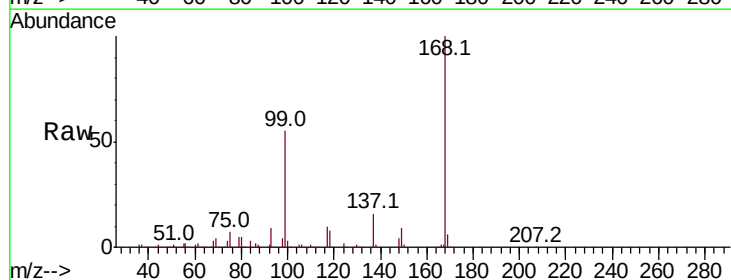
Instrument :
 MSVOA_X
 ClientSampleId :
 5S1-B-TOP

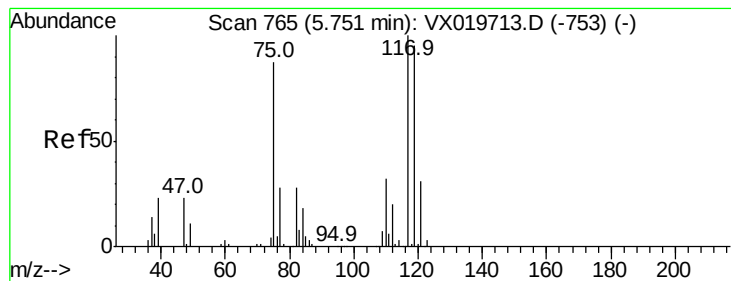
Tot Ion	Ratio	Lower	Upper
113	100		
111	102.8	81.9	122.9
192	20.6	16.7	25.1



#36
 1,1-Dichloropropene
 Concen: 5.147 ug/l
 RT: 5.63 min Scan# 745
 Delta R.T. -0.13 min
 Lab File: VX019781.D
 Acq: 09 Dec 2020 16:11

Tgt Ion	Ratio	Lower	Upper
75	100		
110	8.9	18.1	54.4#
77	0.0	25.3	37.9#





#38

Carbon Tetrachloride

Concen: 6.816 ug/l

RT: 5.63 min Scan# 745

Delta R.T. -0.12 min

Lab File: VX019781.D

Acq: 09 Dec 2020 16:11

Instrument :

MSVOA_X

ClientSampleId :

5S1-B-TOP

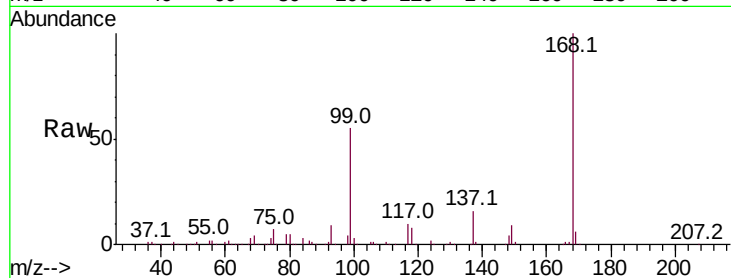
Tot Ion:117 Resp: 32344

Ion Ratio Lower Upper

117 100

119 3.6 76.2 114.2#

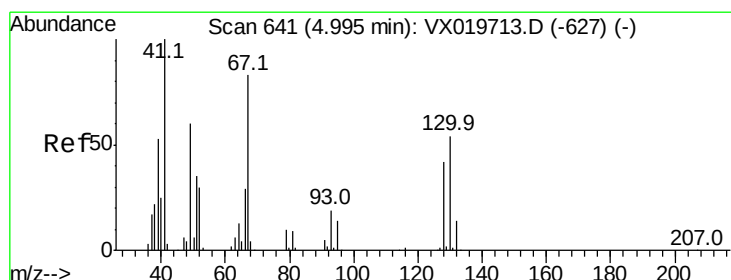
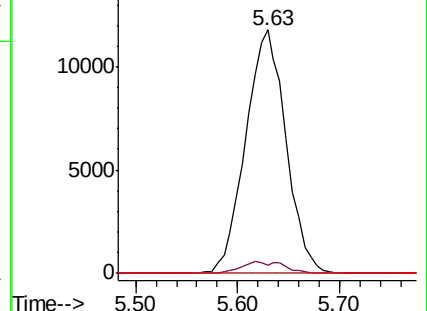
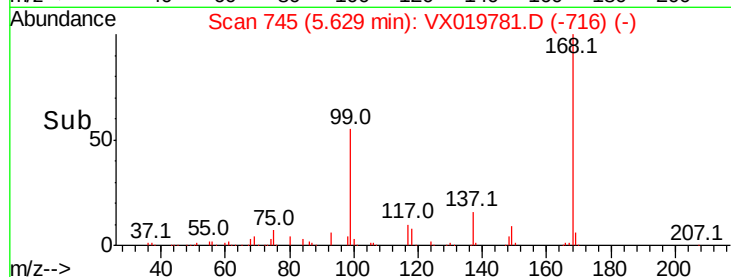
121 0.0 24.8 37.2#



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



#41

Methacrylonitrile

Concen: 0.656 ug/l

RT: 5.09 min Scan# 657

Delta R.T. 0.10 min

Lab File: VX019781.D

Acq: 09 Dec 2020 16:11

Tgt Ion: 41 Resp: 1763

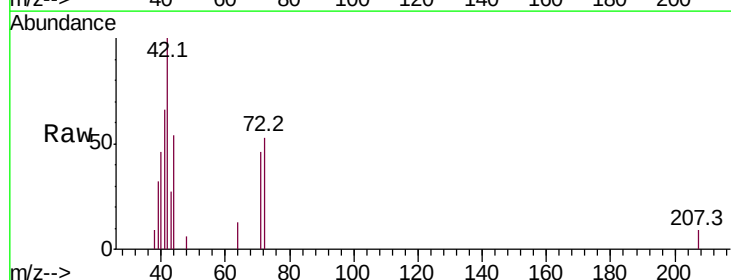
Ion Ratio Lower Upper

41 100

39 51.7 42.5 63.7

67 0.0 65.0 97.6#

52 0.0 25.3 37.9#

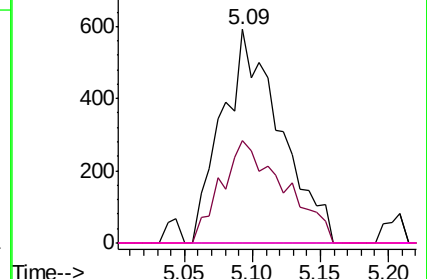
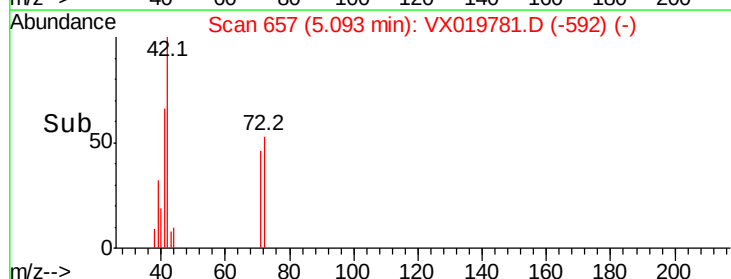


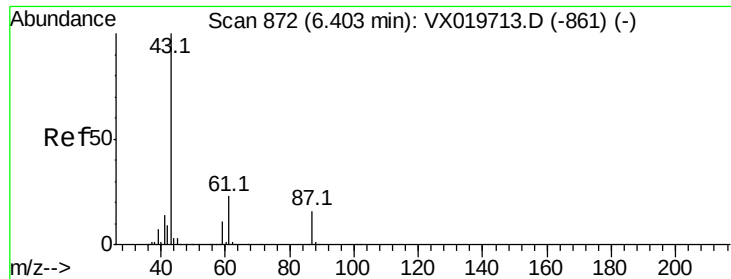
Abundance Ion 41.00 (40.70 to 41.70): VX0

Ion 39.00 (38.70 to 39.70): VX0

Ion 67.00 (66.70 to 67.70): VX0

Ion 52.00 (51.70 to 52.70): VX0





#43

Isopropyl Acetate

Concen: 2.983 ug/l

RT: 6.41 min Scan# 873

Delta R.T. 0.01 min

Lab File: VX019781.D

Acq: 09 Dec 2020 16:11

Instrument :

MSVOA_X

ClientSampled :

5S1-B-TOP

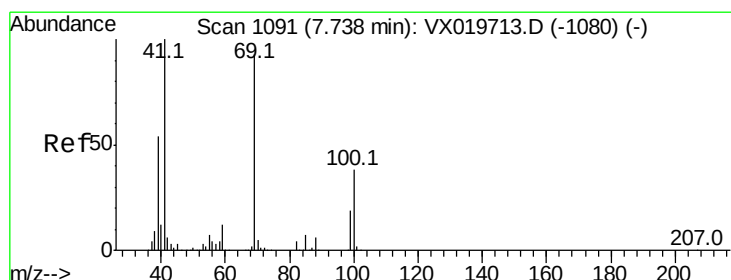
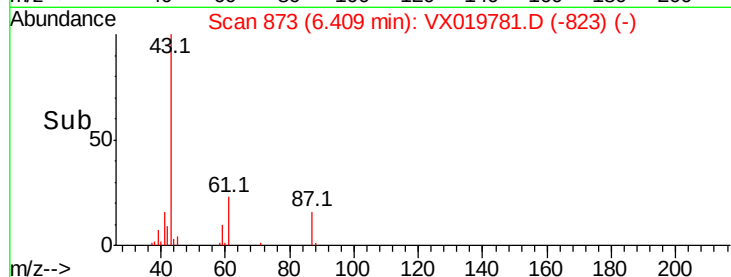
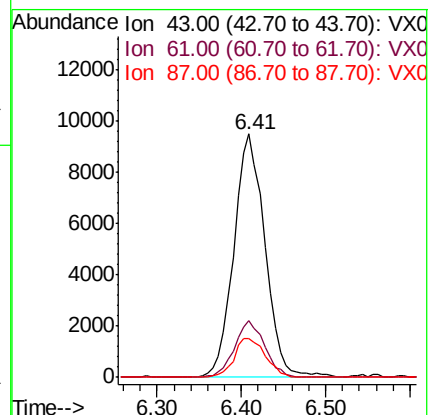
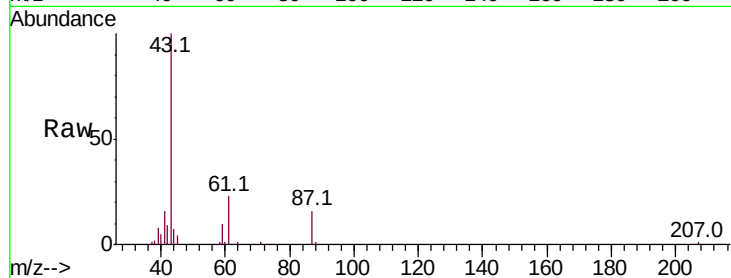
Tot Ion: 43 Resp: 23728

Ion Ratio Lower Upper

43 100

61 22.5 18.2 27.4

87 16.0 12.5 18.7



#48

Methyl methacrylate

Concen: 1.815 ug/l

RT: 7.65 min Scan# 1076

Delta R.T. -0.09 min

Lab File: VX019781.D

Acq: 09 Dec 2020 16:11

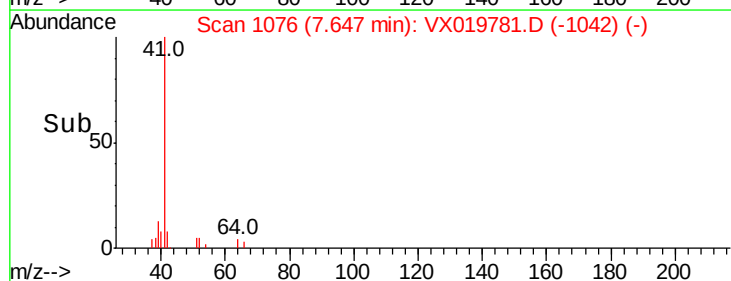
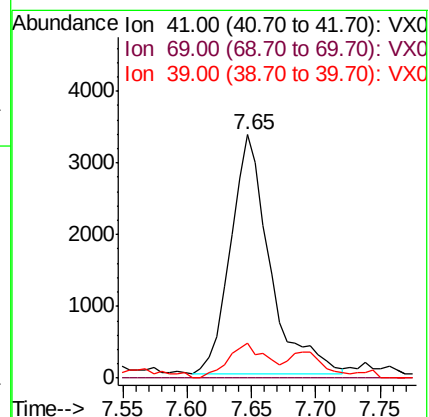
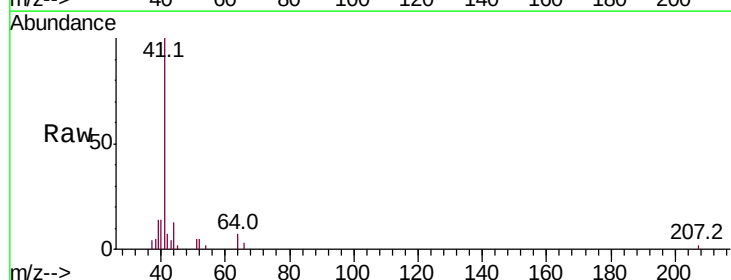
Tgt Ion: 41 Resp: 7102

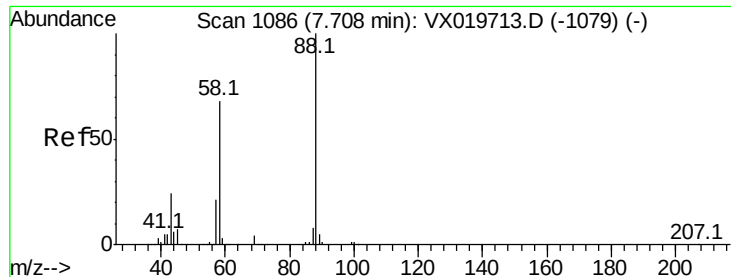
Ion Ratio Lower Upper

41 100

69 0.0 76.0 114.0#

39 0.0 44.6 67.0#





#49

1,4-Dioxane

Concen: 2.163 ug/l

RT: 7.85 min Scan# 1109

Delta R.T. 0.14 min

Lab File: VX019781.D

Acq: 09 Dec 2020 16:11

Instrument :

MSVOA_X

ClientSampleId :

5S1-B-TOP

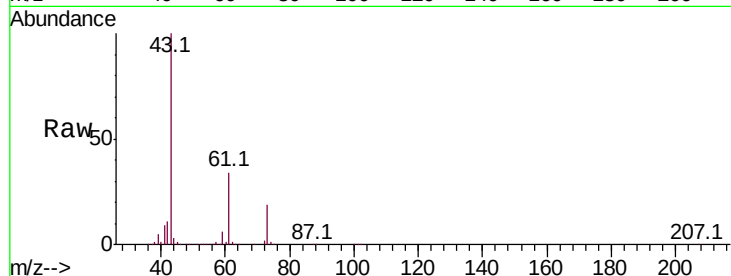
Tot Ion: 88 Resp: 205

Ion Ratio Lower Upper

88 100

43 542847.8 23.2 34.8#

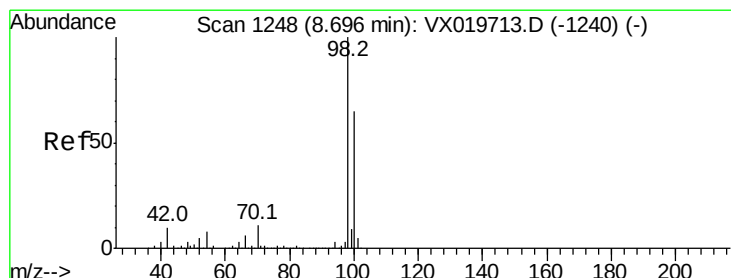
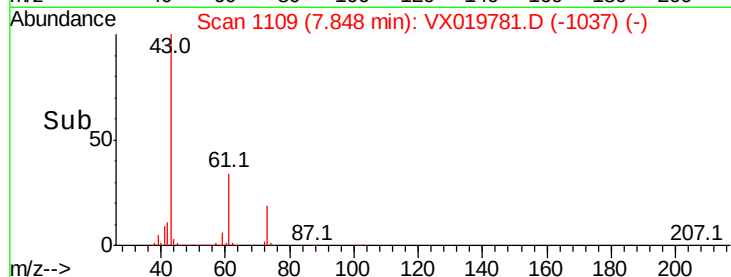
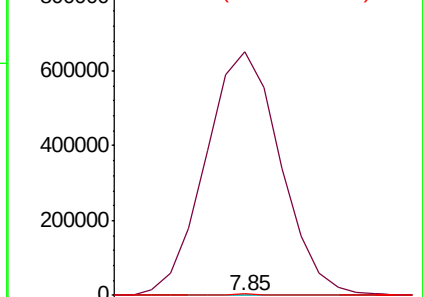
58 2873.2 55.0 82.4#



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: 49.440 ug/l

RT: 8.70 min Scan# 1248

Delta R.T. 0.00 min

Lab File: VX019781.D

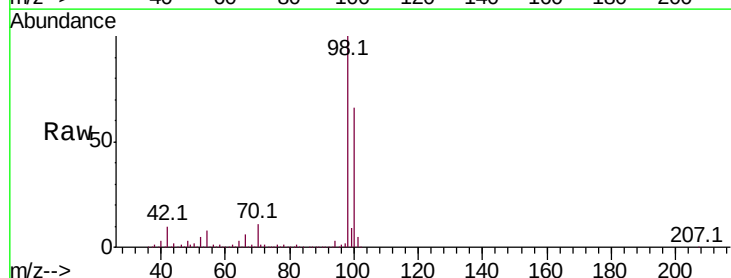
Acq: 09 Dec 2020 16:11

Tgt Ion: 98 Resp: 654157

Ion Ratio Lower Upper

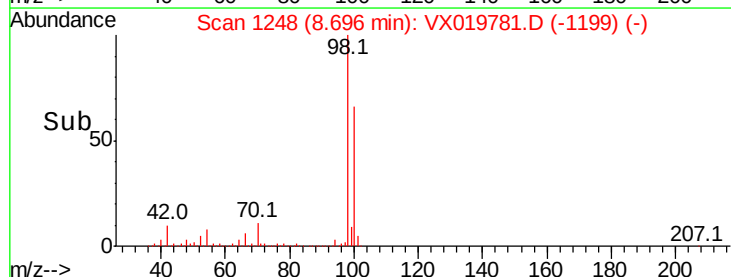
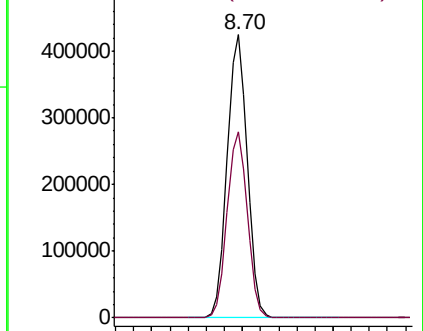
98 100

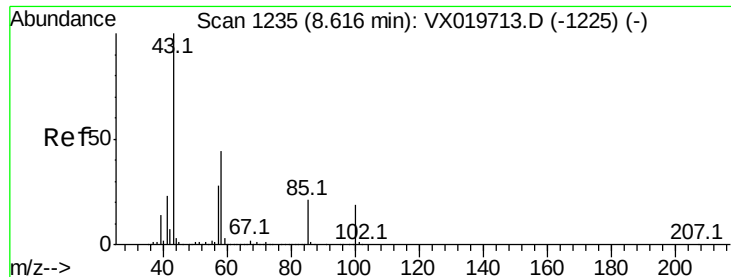
100 66.0 51.9 77.9



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: 19.018 ug/l

RT: 8.59 min Scan# 1231

Delta R.T. -0.02 min

Lab File: VX019781.D

Acq: 09 Dec 2020 16:11

Instrument :

MSVOA_X

ClientSampleId :

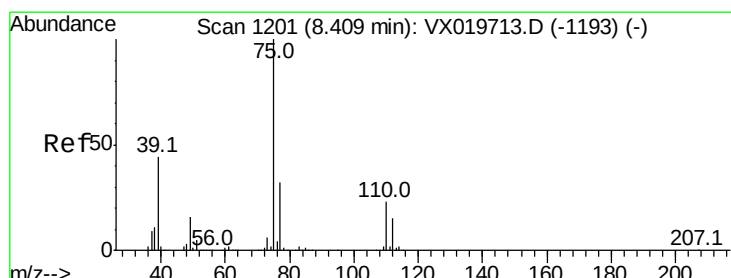
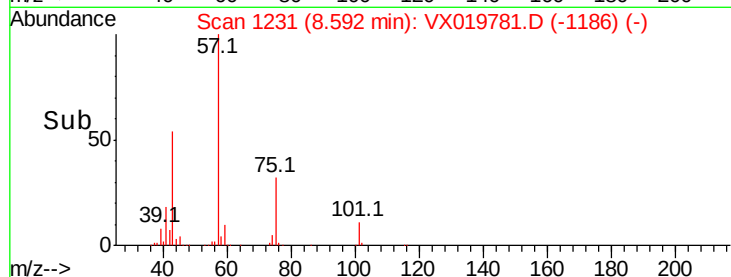
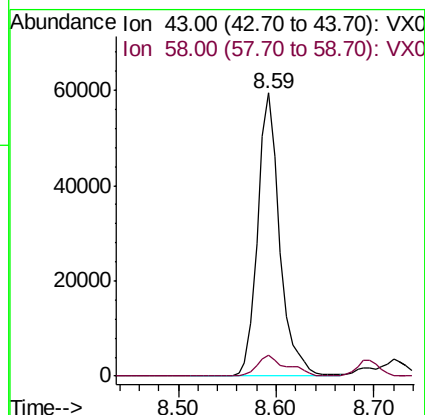
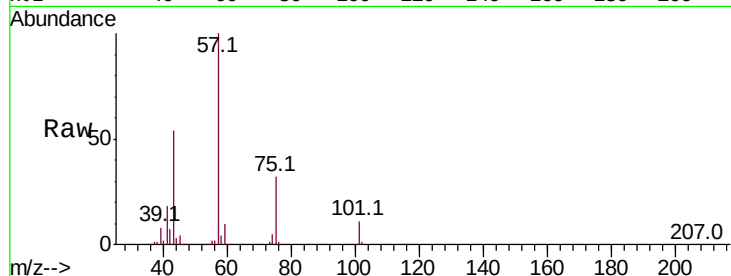
5S1-B-TOP

Tot Ion: 43 Resp: 92359

Ion Ratio Lower Upper

43 100

58 9.9 35.4 53.0#



#54

cis-1,3-Dichloropropene

Concen: 8.317 ug/l

RT: 8.59 min Scan# 1231

Delta R.T. 0.18 min

Lab File: VX019781.D

Acq: 09 Dec 2020 16:11

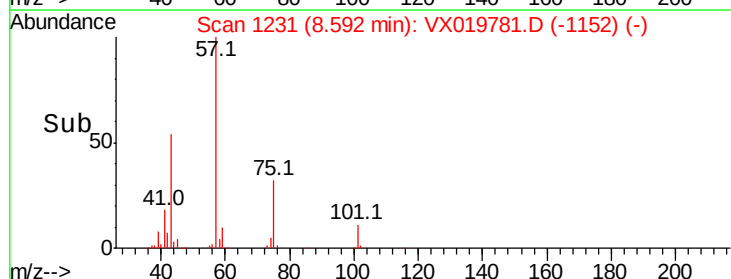
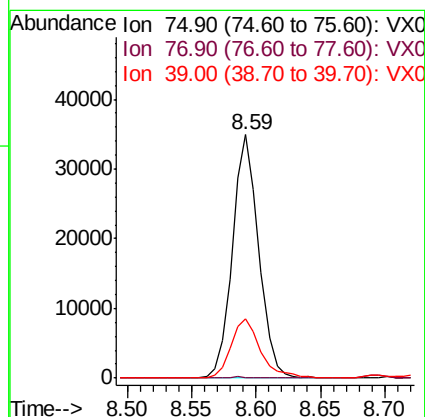
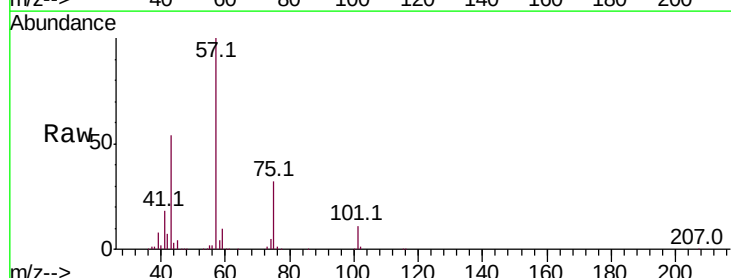
Tgt Ion: 75 Resp: 49706

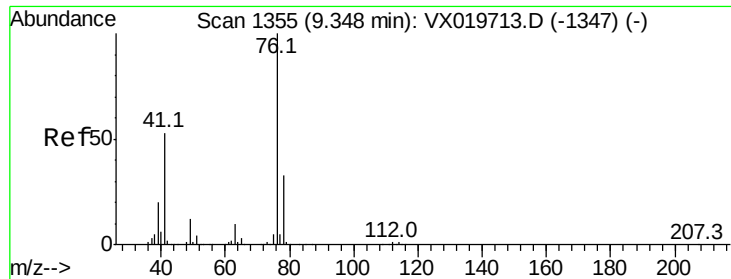
Ion Ratio Lower Upper

75 100

77 0.4 25.7 38.5#

39 24.3 35.1 52.7#

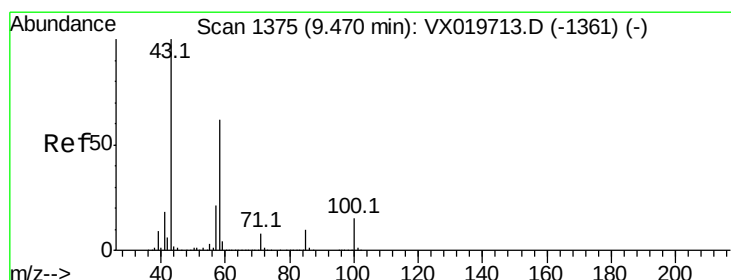
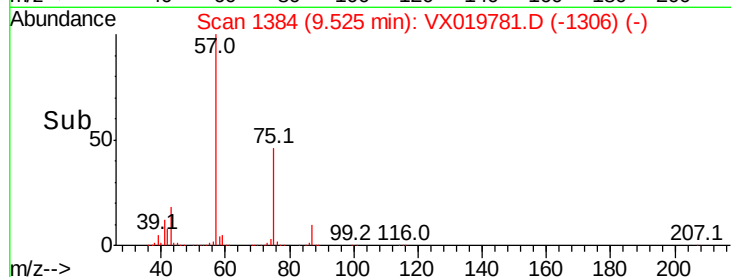
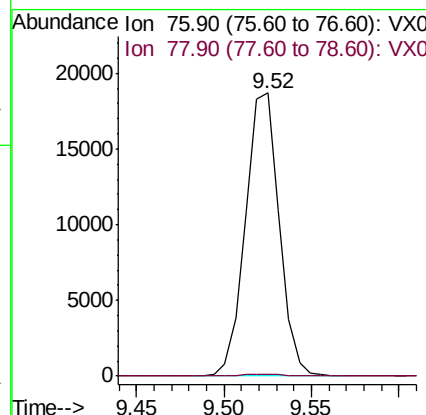
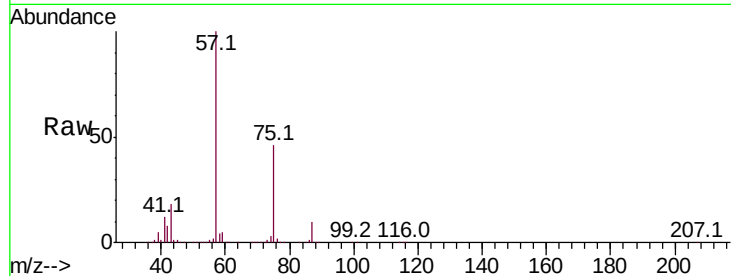




#57
 1,3-Dichloropropane
 Concen: 3.938 ug/l
 RT: 9.52 min Scan# 1384
 Delta R.T. 0.18 min
 Lab File: VX019781.D
 Acq: 09 Dec 2020 16:11

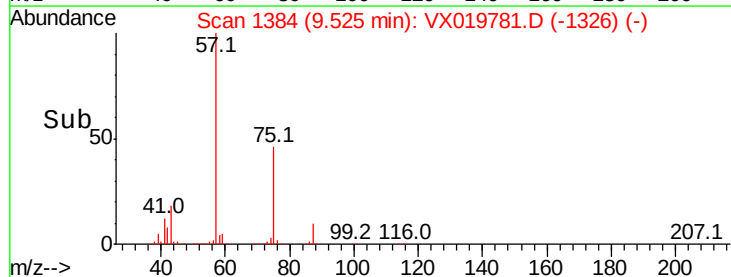
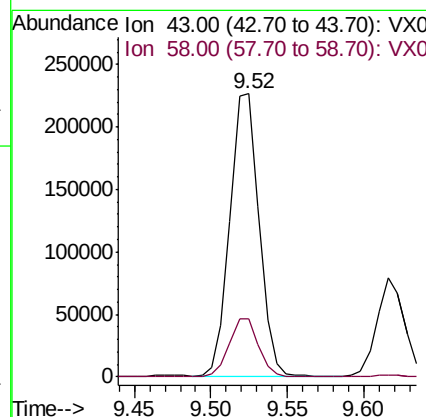
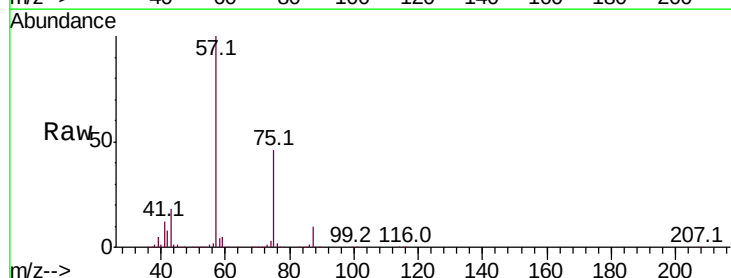
Instrument :
 MSVOA_X
 ClientSampled :
 5S1-B-TOP

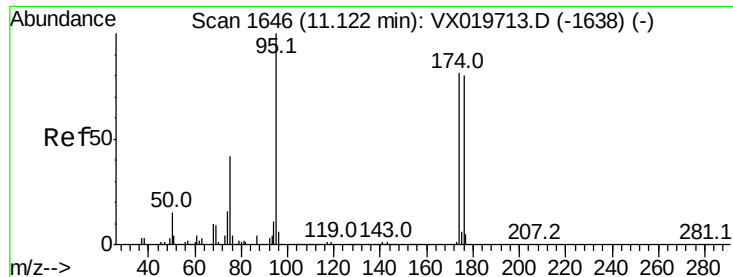
Tot Ion: 76 Resp: 25090
 Ion Ratio Lower Upper
 76 100
 78 0.6 26.2 39.2#



#59
 2-Hexanone
 Concen: 79.811 ug/l
 RT: 9.52 min Scan# 1384
 Delta R.T. 0.05 min
 Lab File: VX019781.D
 Acq: 09 Dec 2020 16:11

Tgt Ion: 43 Resp: 300439
 Ion Ratio Lower Upper
 43 100
 58 20.6 30.9 92.8#

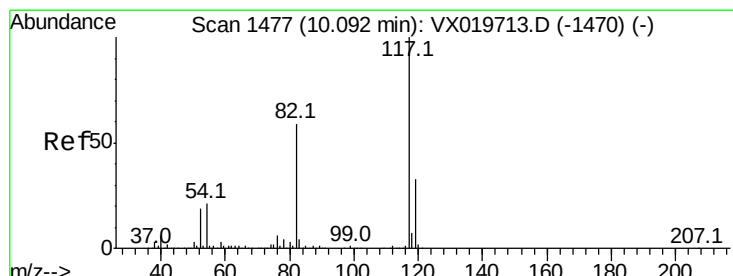
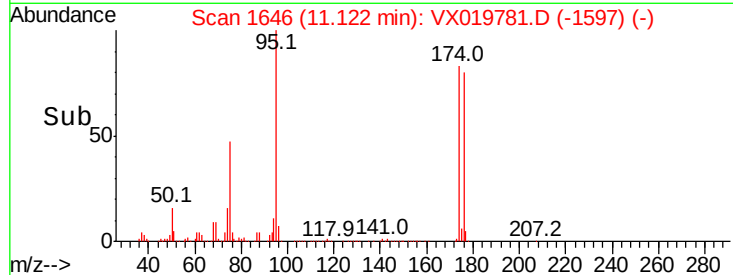
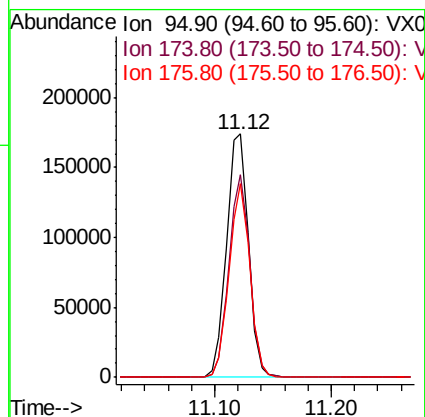
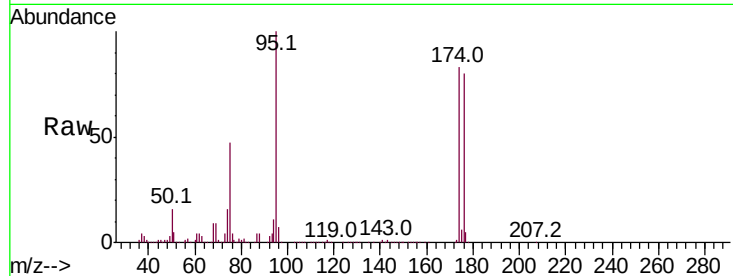




#62
4-Bromofluorobenzene
Concen: 44.864 ug/l
RT: 11.12 min Scan# 1646
Delta R.T. 0.00 min
Lab File: VX019781.D
Acq: 09 Dec 2020 16:11

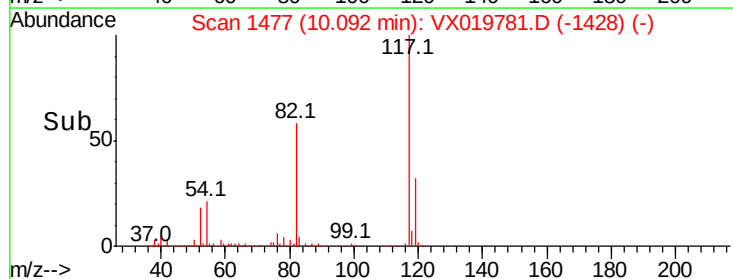
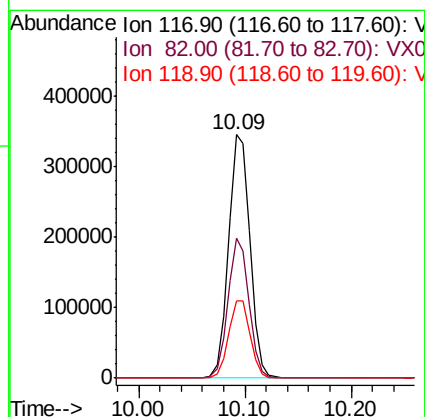
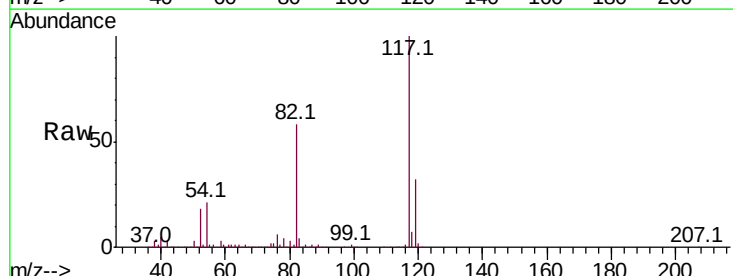
Instrument :
MSVOA_X
ClientSampleId :
5S1-B-TOP

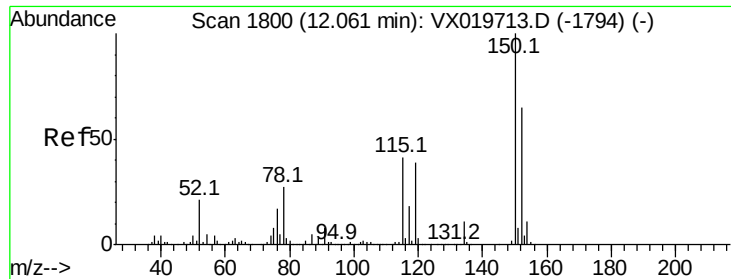
Tot Ion	Ratio	Lower	Upper
95	100		
174	79.8	0.0	154.6
176	75.9	0.0	155.8



#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 10.09 min Scan# 1477
Delta R.T. 0.00 min
Lab File: VX019781.D
Acq: 09 Dec 2020 16:11

Tgt Ion	Ratio	Lower	Upper
117	100		
82	57.7	47.4	71.2
119	31.8	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: VX019781.D

Acq: 09 Dec 2020 16:11

Instrument :

MSVOA_X

ClientSampleId :

5S1-B-TOP

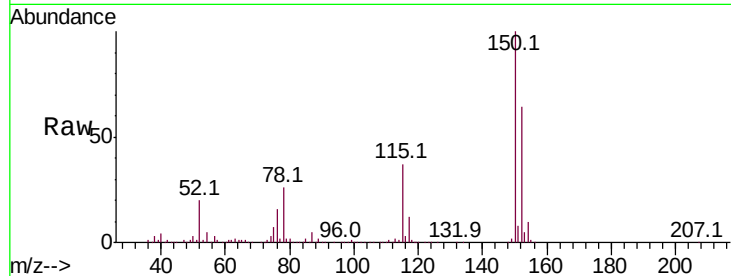
Tot Ion:152 Resp: 208331

Ion Ratio Lower Upper

152 100

115 59.0 41.1 123.3

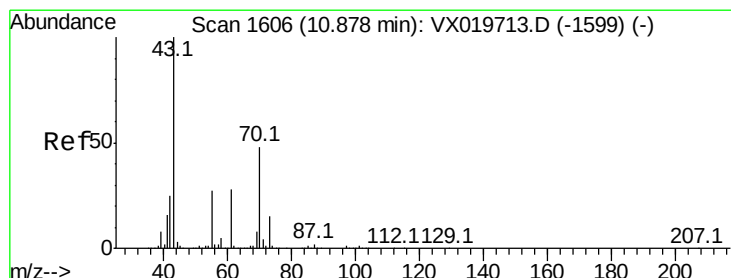
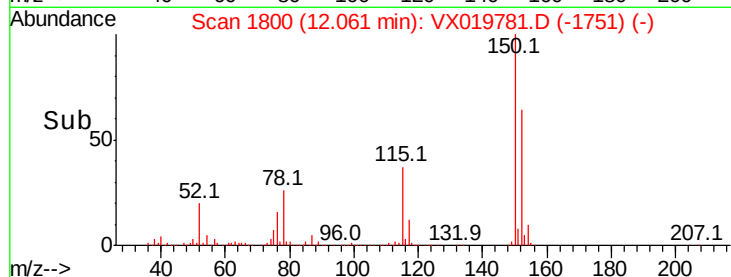
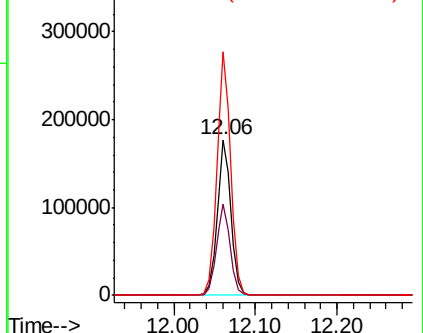
150 158.1 0.0 349.0



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



#74

N-ethyl acetate

Concen: 0.307 ug/l

RT: 10.81 min Scan# 1595

Delta R.T. -0.07 min

Lab File: VX019781.D

Acq: 09 Dec 2020 16:11

Tgt Ion: 43 Resp: 1753

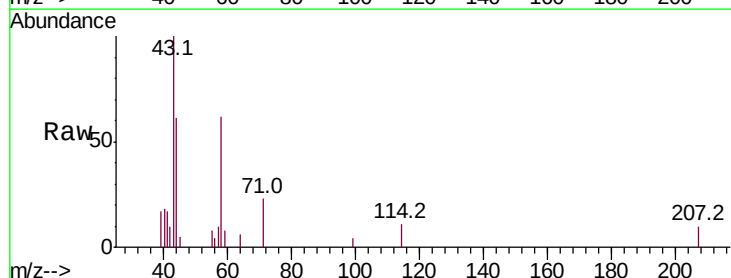
Ion Ratio Lower Upper

43 100

70 0.0 39.0 58.6#

55 15.2 21.5 32.3#

61 0.0 22.1 33.1#

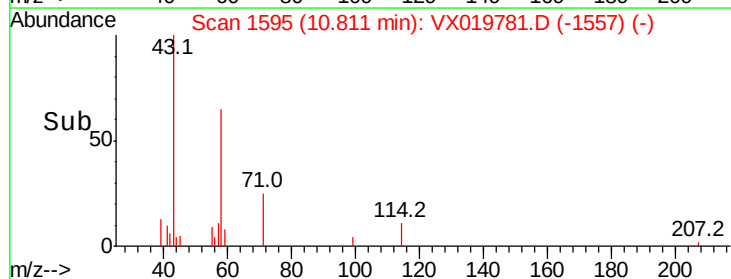
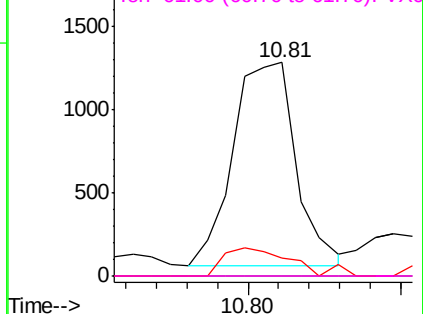


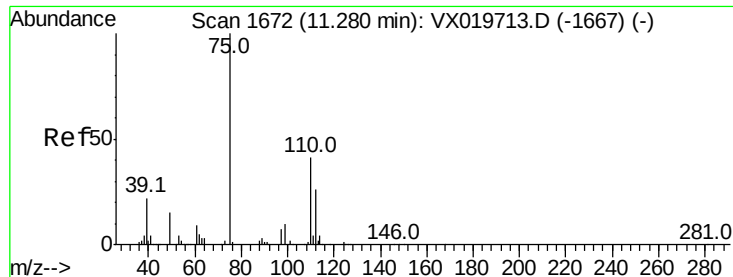
Abundance Ion 43.00 (42.70 to 43.70): VX0

Ion 70.00 (69.70 to 70.70): VX0

Ion 55.00 (54.70 to 55.70): VX0

Ion 61.00 (60.70 to 61.70): VX0





#76

1,2,3-Trichloropropane

Concen: 22.922 ug/l

RT: 11.12 min Scan# 1645

Delta R.T. -0.16 min

Lab File: VX019781.D

Acq: 09 Dec 2020 16:11

Instrument :

MSVOA_X

ClientSampleId :

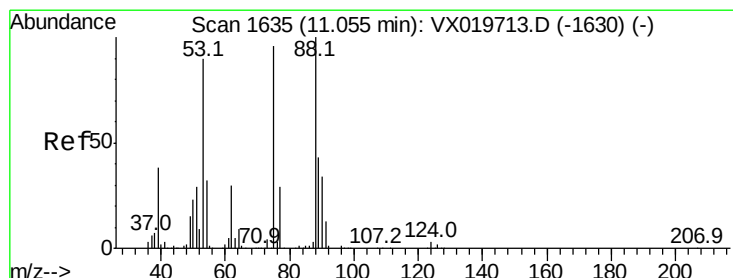
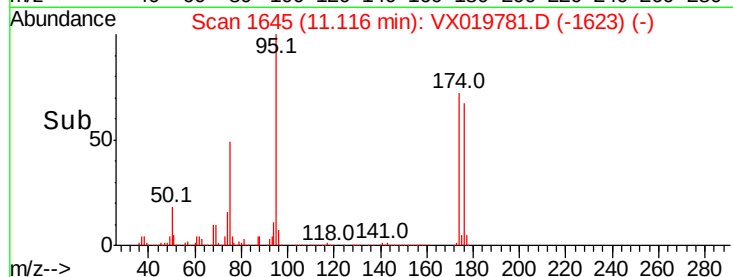
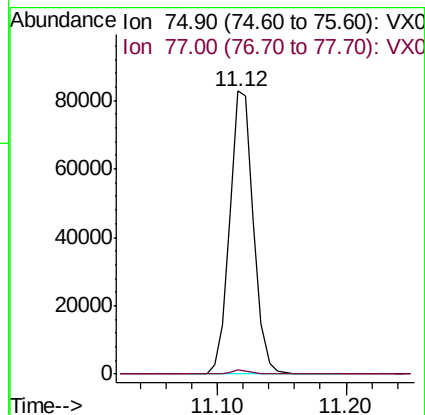
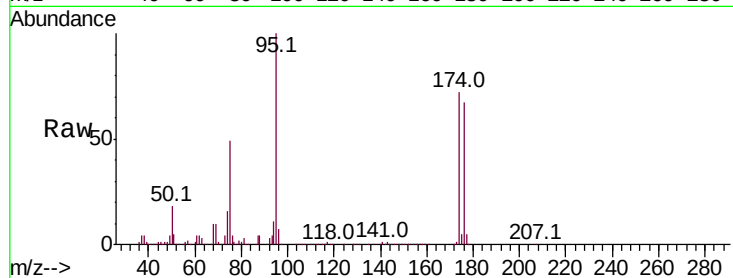
5S1-B-TOP

Tot Ion: 75 Resp: 107103

Ion Ratio Lower Upper

75 100

77 1.3 19.1 57.5#



#81

trans-1,4-Dichloro-2-butene

Concen: 66.263 ug/l

RT: 11.12 min Scan# 1645

Delta R.T. 0.06 min

Lab File: VX019781.D

Acq: 09 Dec 2020 16:11

Tgt Ion: 75 Resp: 107103

Ion Ratio Lower Upper

75 100

53 0.1 74.5 111.7#

89 0.0 37.9 56.9#

