

Data Path : Z:\VOASRV\HPCHEM1\MSVOA X\DATA\VX120920\
 Data File : VX019779.D
 Acq On : 09 Dec 2020 15:24
 Operator : JC/MD
 Sample : L4971-04
 Misc : 5.0mL/MSVOA X/WATER
 ALS Vial : 12 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :
 5S1-A-TOP

Quant Time: Dec 10 05:40:30 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	338559	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	6.83	114	556167	50.00	ug/l	0.00
63) Chlorobenzene-d5	10.09	117	518122	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.06	152	229844	50.00	ug/l	0.00

System Monitoring Compounds

33) 1,2-Dichloroethane-d4	6.03	65	209711	47.13	ug/l	0.00
Spiked Amount	50.000	Range	61 - 141	Recovery	=	94.26%
35) Dibromofluoromethane	5.46	113	169929	47.28	ug/l	0.00
Spiked Amount	50.000	Range	69 - 133	Recovery	=	94.56%
50) Toluene-d8	8.70	98	678087	49.41	ug/l	0.00
Spiked Amount	50.000	Range	65 - 126	Recovery	=	98.82%
62) 4-Bromofluorobenzene	11.12	95	239944	45.94	ug/l	0.00
Spiked Amount	50.000	Range	58 - 135	Recovery	=	91.88%

Target Compounds

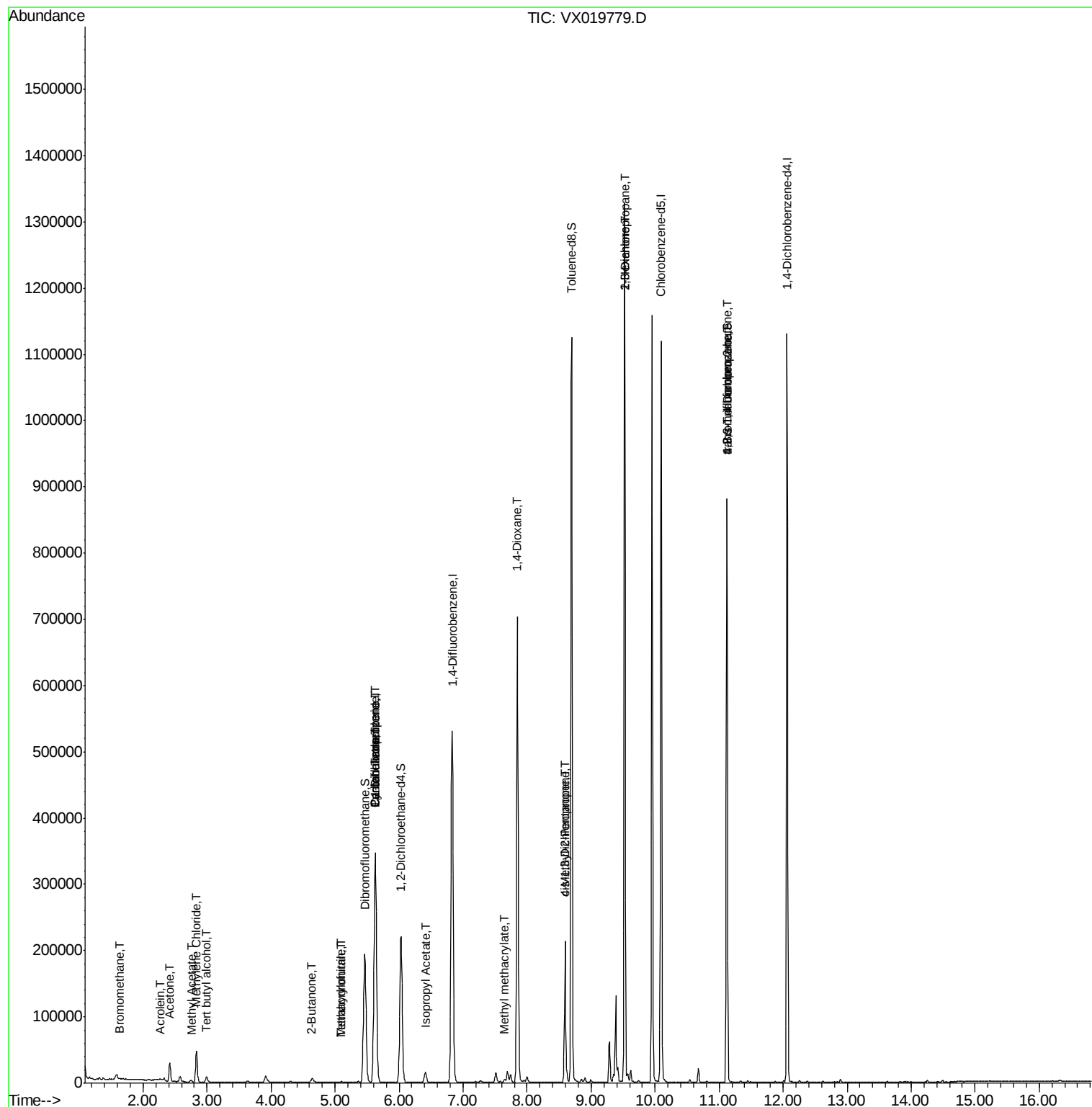
					Qvalue	
5) Bromomethane	1.63	94	842	0.660	ug/l	99
11) Tert butyl alcohol	3.00	59	5417	3.343	ug/l #	85
13) Acrolein	2.26	56	115	0.234	ug/l	90
16) Acetone	2.42	43	28597	17.098	ug/l	98
18) Methyl Acetate	2.75	43	3852	0.941	ug/l	100
20) Methylene Chloride	2.84	84	22998	4.736	ug/l	99
25) 2-Butanone	4.64	43	5067	1.972	ug/l	99
29) Tetrahydrofuran	5.10	42	802	0.484	ug/l #	77
31) Cyclohexane	5.63	56	6387	1.154	ug/l #	1
36) 1,1-Dichloropropene	5.62	75	25249	5.024	ug/l #	49
38) Carbon Tetrachloride	5.62	117	32730	6.650	ug/l #	16
41) Methacrylonitrile	5.09	41	917	0.329	ug/l #	25
43) Isopropyl Acetate	6.41	43	20343	2.466	ug/l	98
48) Methyl methacrylate	7.65	41	6110	1.506	ug/l #	10
49) 1,4-Dioxane	7.85	88	93	0.946	ug/l #	1
51) 4-Methyl-2-Pentanone	8.59	43	69088	13.717	ug/l #	48
54) cis-1,3-Dichloropropene	8.59	75	35426	5.715	ug/l #	61
57) 1,3-Dichloropropane	9.52	76	12149	1.839	ug/l #	42
59) 2-Hexanone	9.52	43	141564	36.260	ug/l #	48
76) 1,2,3-Trichloropropane	11.12	75	116016	22.506	ug/l #	39
81) trans-1,4-Dichloro-2-buten	11.12	75	116016	65.059	ug/l #	12

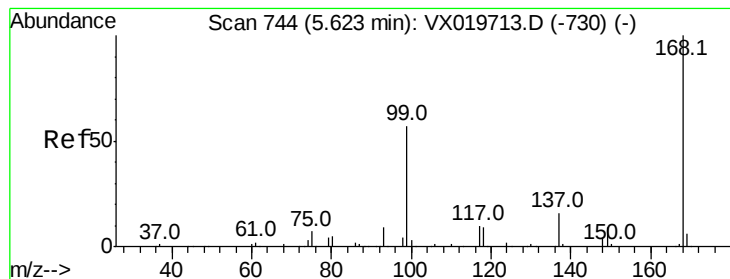
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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Quant Time: Dec 10 05:40:30 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: VX019779.D

Acq: 09 Dec 2020 15:24

Instrument :

MSVOA_X

ClientSampleId :

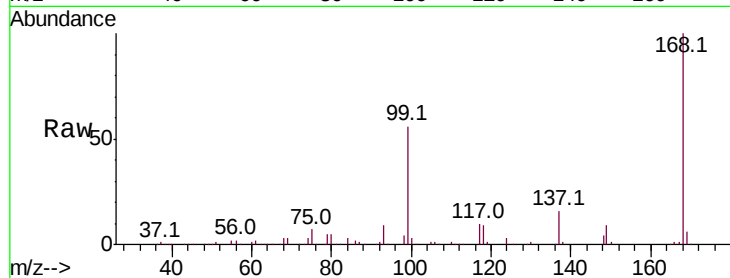
5S1-A-TOP

Tot Ion:168 Resp: 338559

Ion Ratio Lower Upper

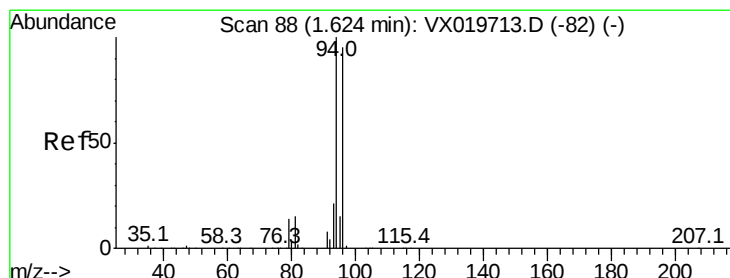
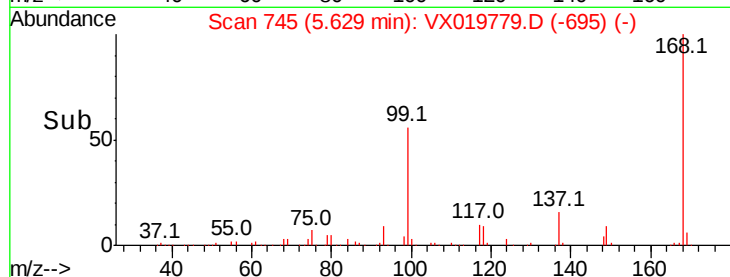
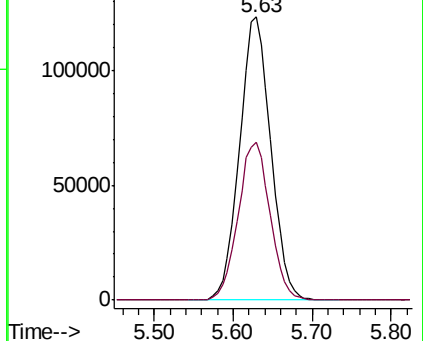
168 100

99 55.7 45.8 68.6



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VX0



#5

Bromomethane

Concen: 0.660 ug/l

RT: 1.63 min Scan# 89

Delta R.T. 0.01 min

Lab File: VX019779.D

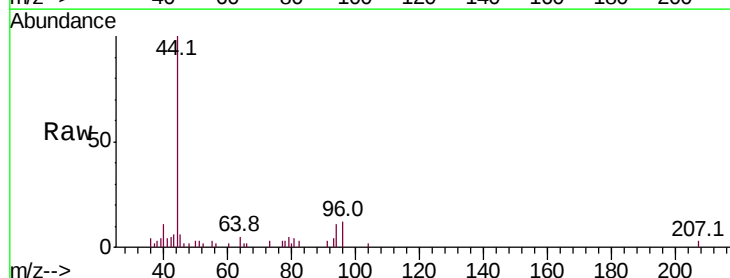
Acq: 09 Dec 2020 15:24

Tgt Ion: 94 Resp: 842

Ion Ratio Lower Upper

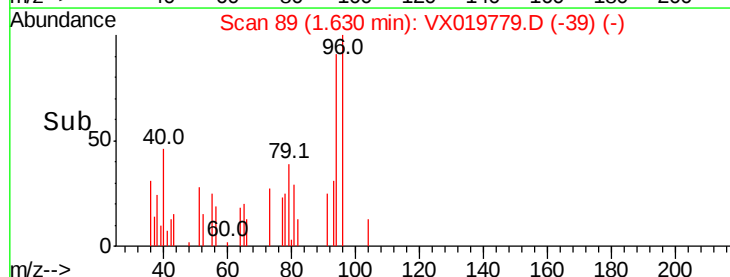
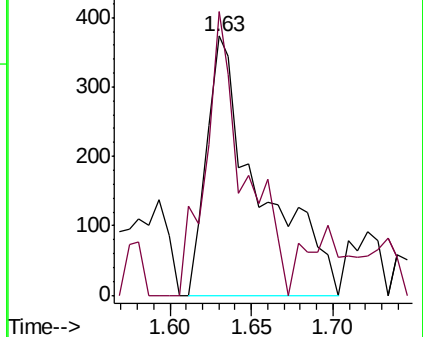
94 100

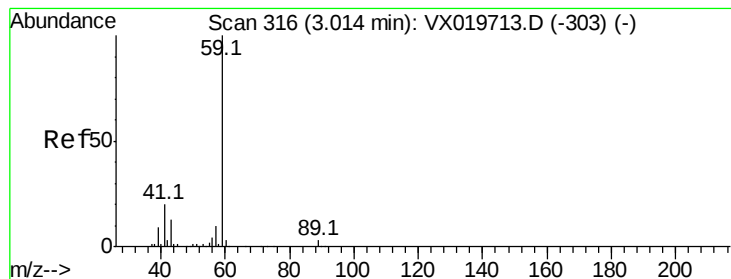
96 94.9 76.4 114.6



Abundance Ion 93.90 (93.60 to 94.60): VX0

Ion 95.90 (95.60 to 96.60): VX0



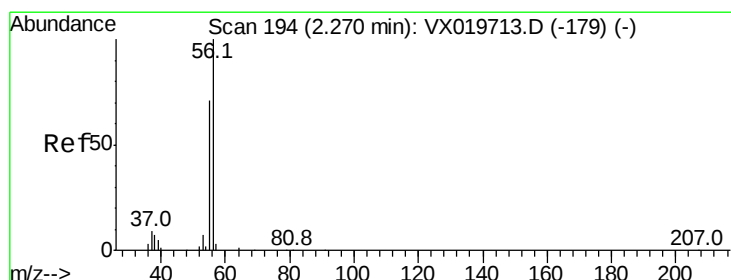
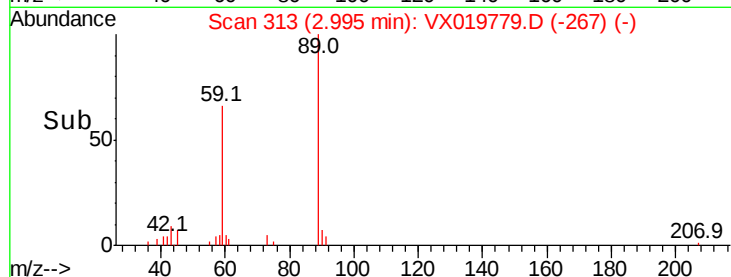
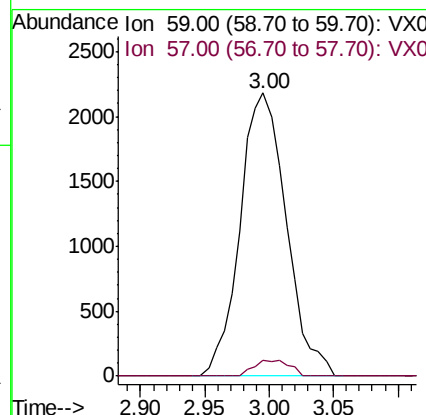
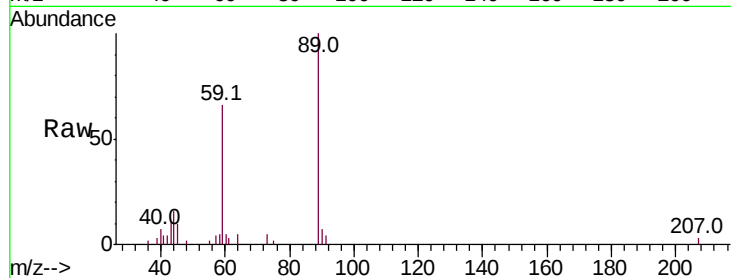


#11

Tert butyl alcohol
Concen: 3.343 ug/l
RT: 3.00 min Scan# 313
Delta R.T. -0.02 min
Lab File: VX019779.D
Acq: 09 Dec 2020 15:24

Instrument :
MSVOA_X
ClientSampleId :
5S1-A-TOP

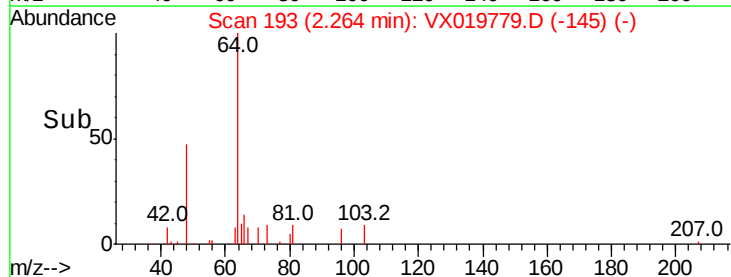
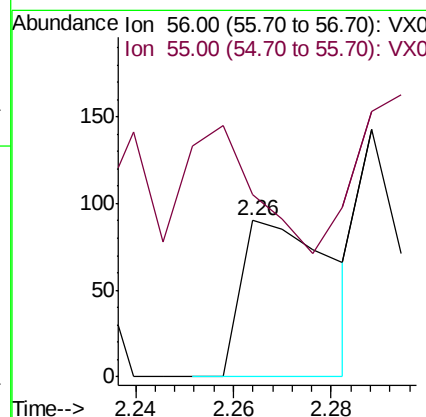
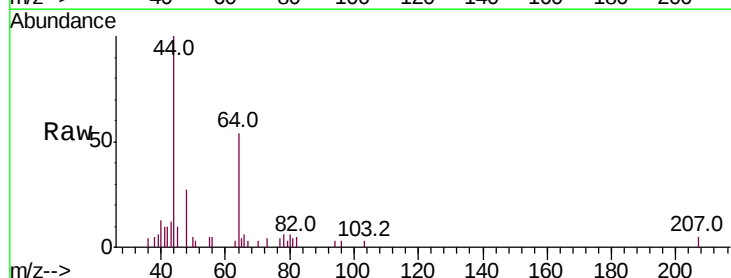
Tot Ion: 59 Resp: 5417
Ion Ratio Lower Upper
59 100
57 4.3 7.8 11.8#

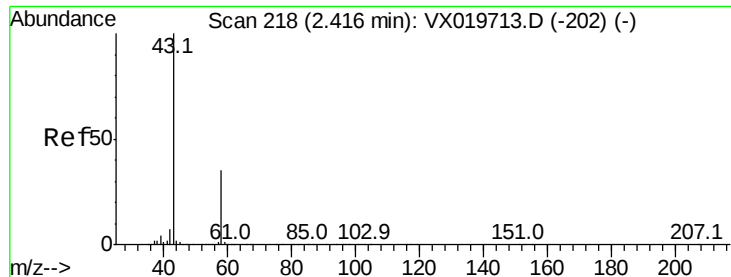


#13

Acrolein
Concen: 0.234 ug/l
RT: 2.26 min Scan# 193
Delta R.T. -0.01 min
Lab File: VX019779.D
Acq: 09 Dec 2020 15:24

Tgt Ion: 56 Resp: 115
Ion Ratio Lower Upper
56 100
55 62.6 56.4 84.6





#16

Acetone

Concen: 17.098 ug/l

RT: 2.42 min Scan# 218

Delta R.T. 0.00 min

Lab File: VX019779.D

Acq: 09 Dec 2020 15:24

Instrument :

MSVOA_X

ClientSampleId :

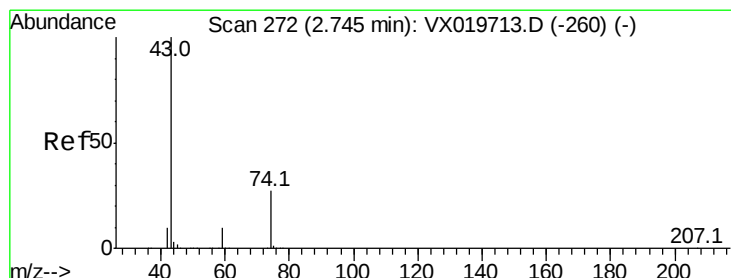
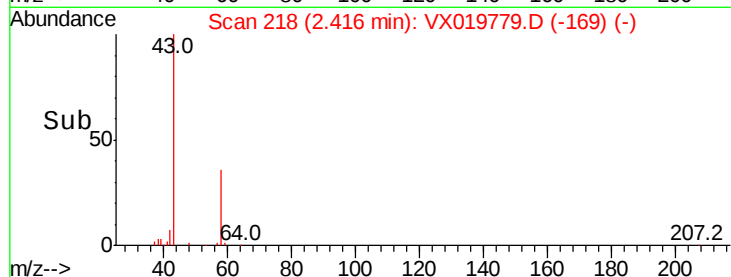
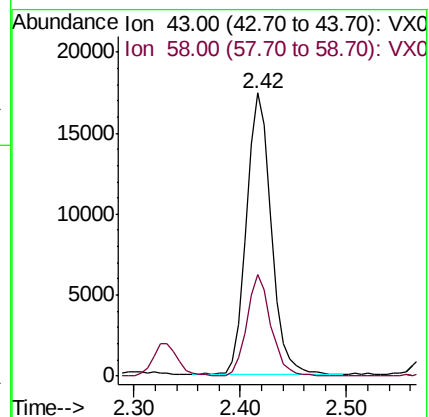
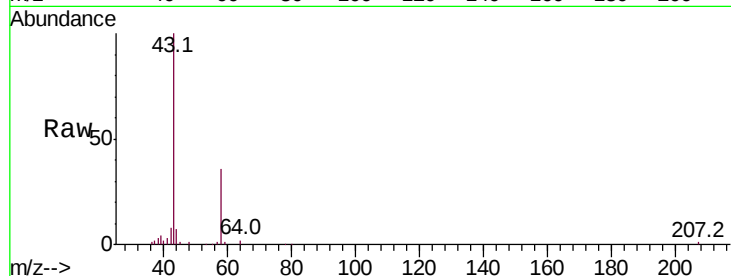
5S1-A-TOP

Tot Ion: 43 Resp: 28597

Ion Ratio Lower Upper

43 100

58 36.2 27.8 41.8



#18

Methyl Acetate

Concen: 0.941 ug/l

RT: 2.75 min Scan# 272

Delta R.T. 0.00 min

Lab File: VX019779.D

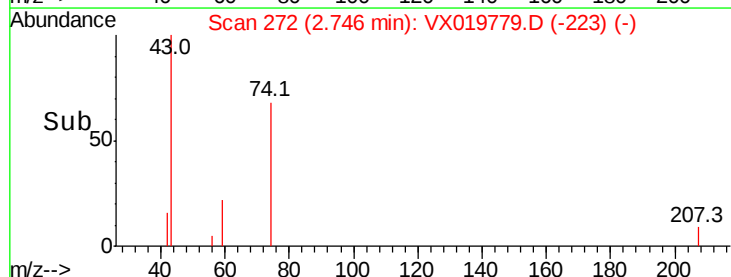
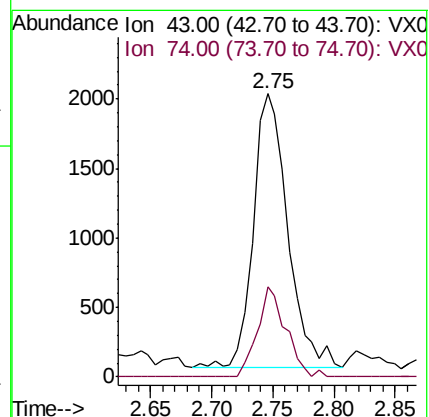
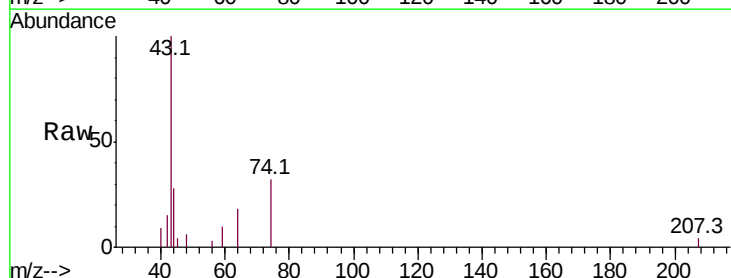
Acq: 09 Dec 2020 15:24

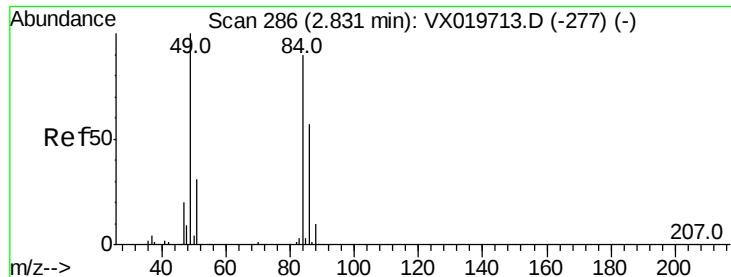
Tgt Ion: 43 Resp: 3852

Ion Ratio Lower Upper

43 100

74 27.5 21.9 32.9

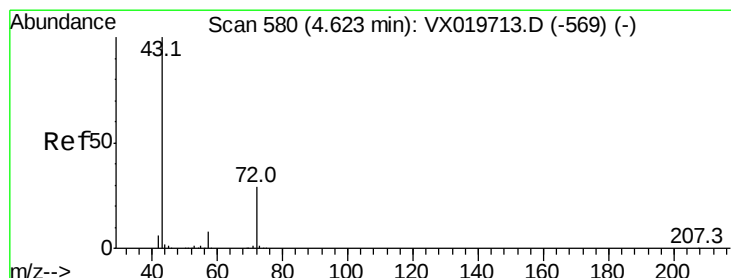
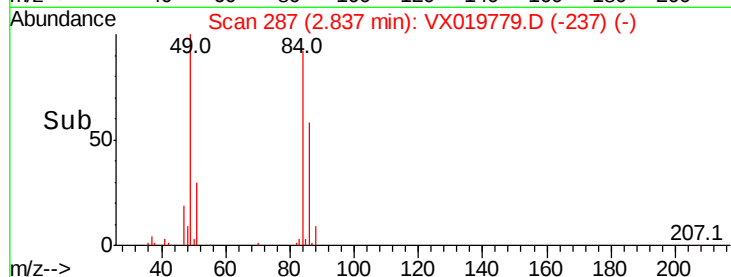
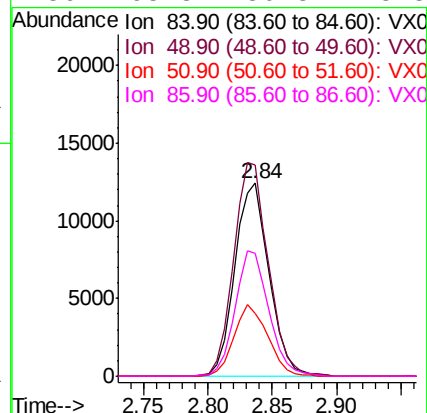
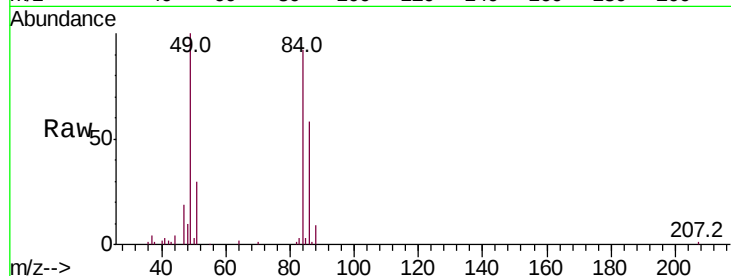




#20
Methvlene Chloride
Concen: 4.736 ug/l
RT: 2.84 min Scan# 287
Delta R.T. 0.01 min
Lab File: VX019779.D
Acq: 09 Dec 2020 15:24

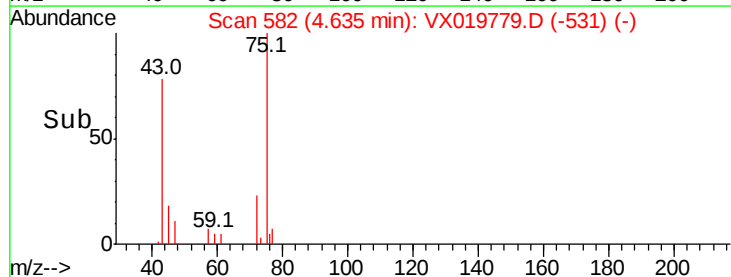
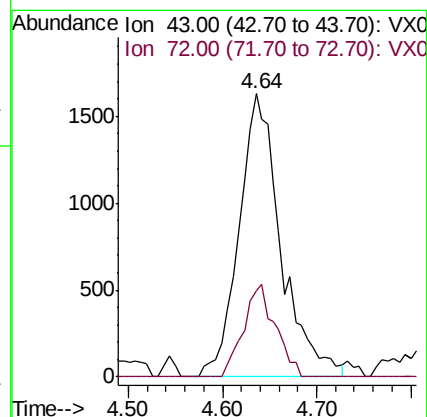
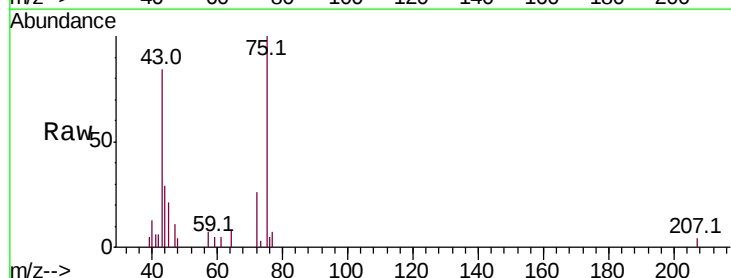
Instrument :
MSVOA_X
ClientSampleId :
5S1-A-TOP

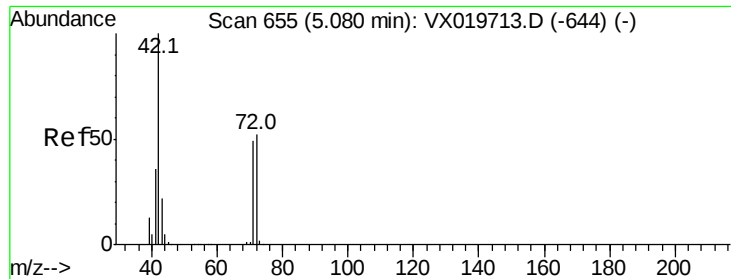
Tot Ion:	84	Resp:	22998
Ion	Ratio	Lower	Upper
84	100		
49	109.2	88.6	132.8
51	32.5	27.0	40.6
86	63.3	50.3	75.5



#25
2-Butanone
Concen: 1.972 ug/l
RT: 4.64 min Scan# 582
Delta R.T. 0.01 min
Lab File: VX019779.D
Acq: 09 Dec 2020 15:24

Tgt Ion:	43	Resp:	5067
Ion	Ratio	Lower	Upper
43	100		
72	30.4	23.7	35.5

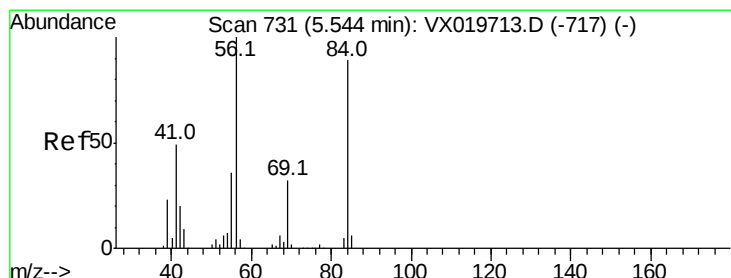
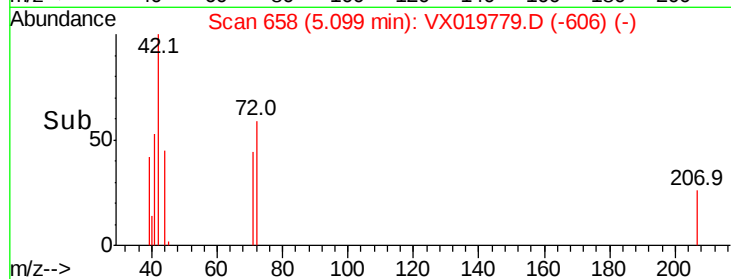
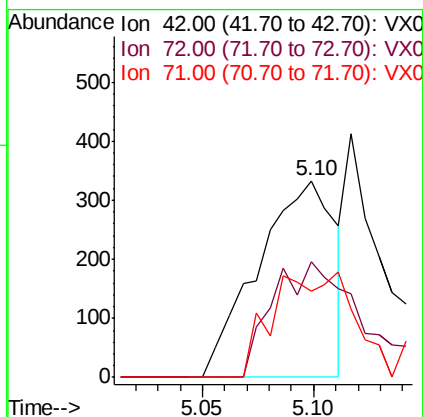
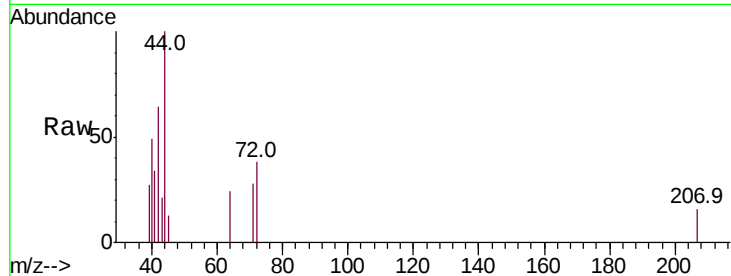




#29
Tetrahydrofuran
Concen: 0.484 ug/l
RT: 5.10 min Scan# 658
Delta R.T. 0.02 min
Lab File: VX019779.D
Acq: 09 Dec 2020 15:24

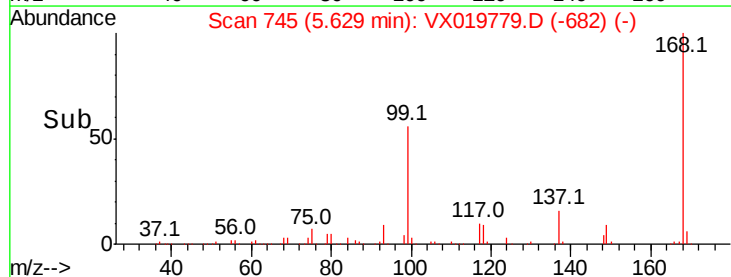
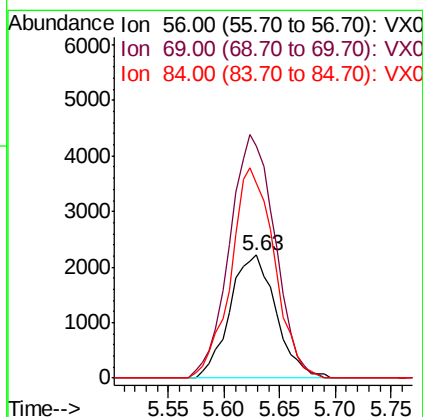
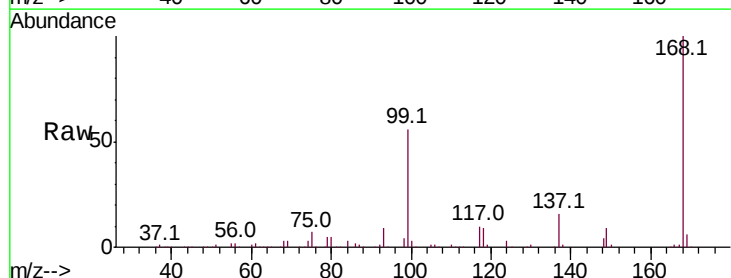
Instrument :
MSVOA_X
ClientSampled :
5S1-A-TOP

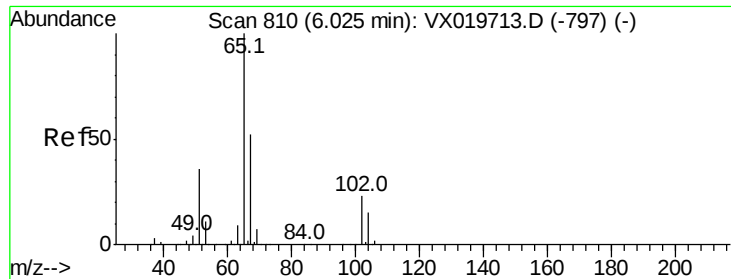
Tot Ion: 42 Resp: 802
Ion Ratio Lower Upper
42 100
72 65.8 41.7 62.5#
71 30.2 38.4 57.6#



#31
Cyclohexane
Concen: 1.154 ug/l
RT: 5.63 min Scan# 745
Delta R.T. 0.09 min
Lab File: VX019779.D
Acq: 09 Dec 2020 15:24

Tgt Ion: 56 Resp: 6387
Ion Ratio Lower Upper
56 100
69 189.4 25.3 37.9#
84 158.6 71.4 107.0#

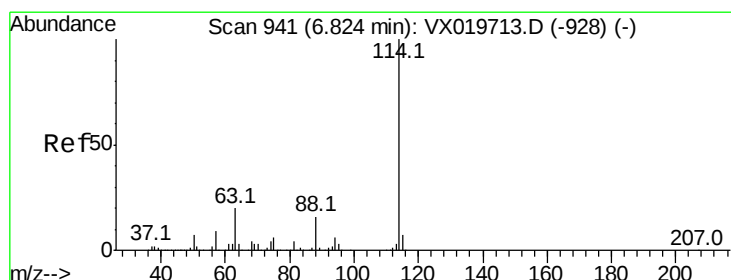
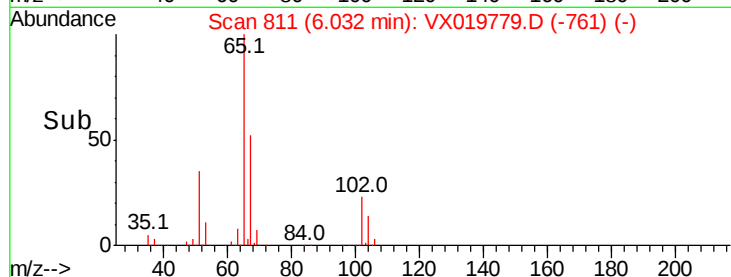
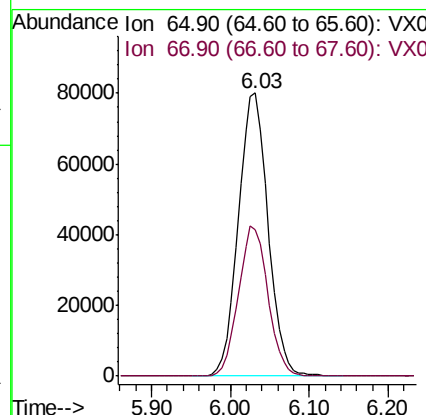
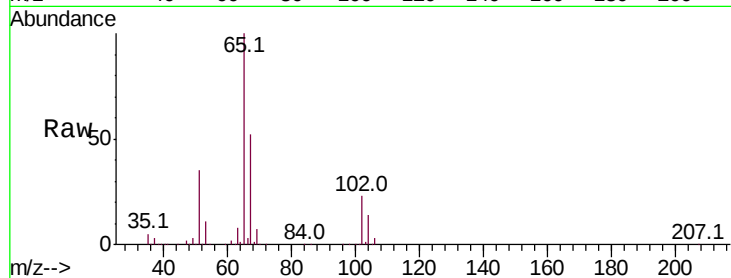




#33
 1,2-Dichloroethane-d4
 Concen: 47.130 ug/l
 RT: 6.03 min Scan# 811
 Delta R.T. 0.01 min
 Lab File: VX019779.D
 Acq: 09 Dec 2020 15:24

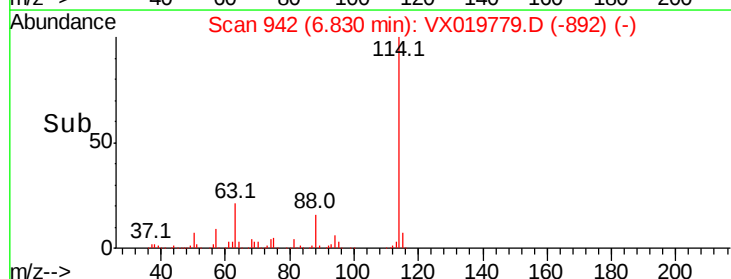
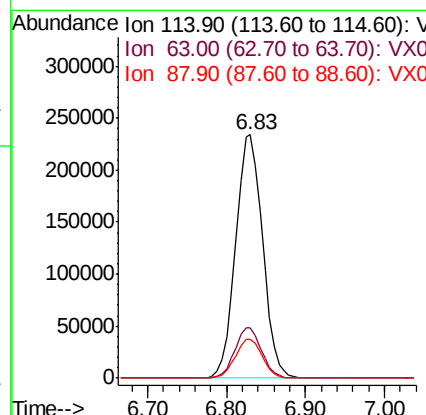
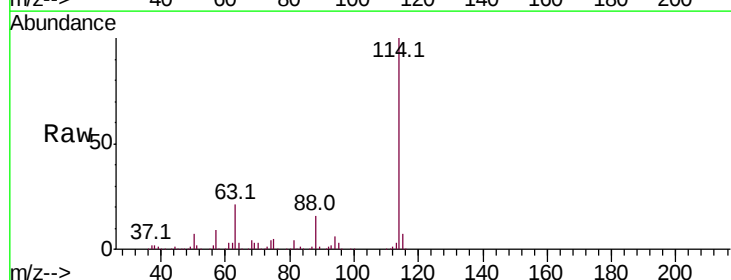
Instrument :
 MSVOA_X
 ClientSampleId :
 5S1-A-TOP

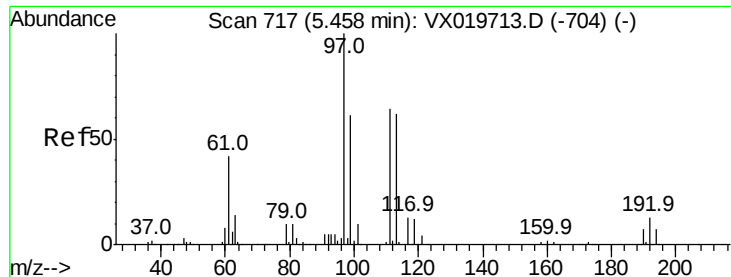
Tot Ion: 65 Resp: 209711
 Ion Ratio Lower Upper
 65 100
 67 52.9 0.0 105.4



#34
 1,4-Difluorobenzene
 Concen: 50.000 ug/l
 RT: 6.83 min Scan# 942
 Delta R.T. 0.01 min
 Lab File: VX019779.D
 Acq: 09 Dec 2020 15:24

Tgt Ion: 114 Resp: 556167
 Ion Ratio Lower Upper
 114 100
 63 20.5 0.0 40.8
 88 16.1 0.0 32.8

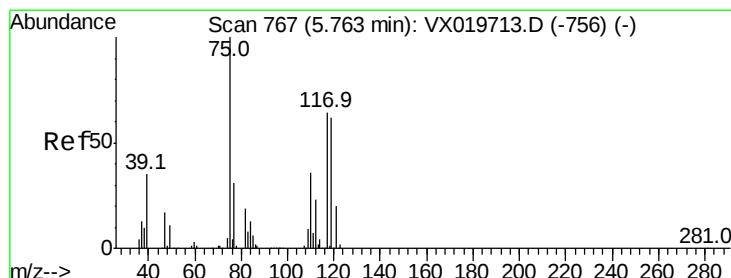
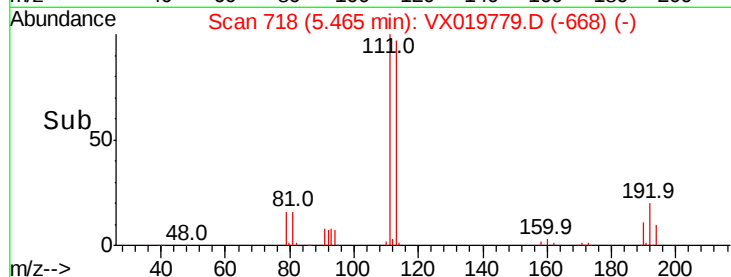
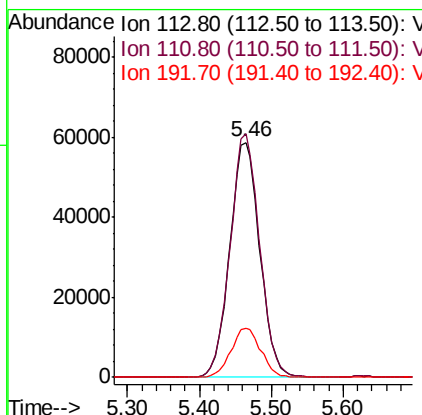
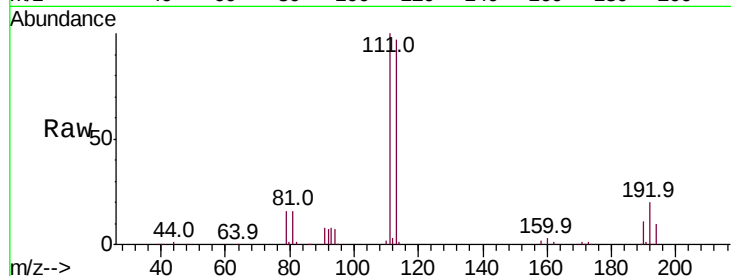




#35
 Dibromofluoromethane
 Concen: 47.276 ug/l
 RT: 5.46 min Scan# 718
 Delta R.T. 0.01 min
 Lab File: VX019779.D
 Acq: 09 Dec 2020 15:24

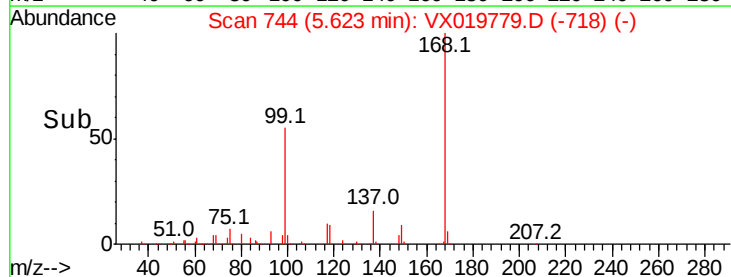
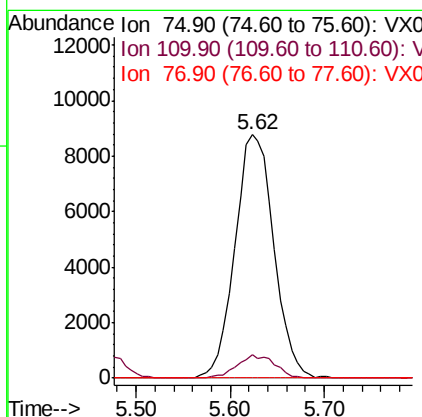
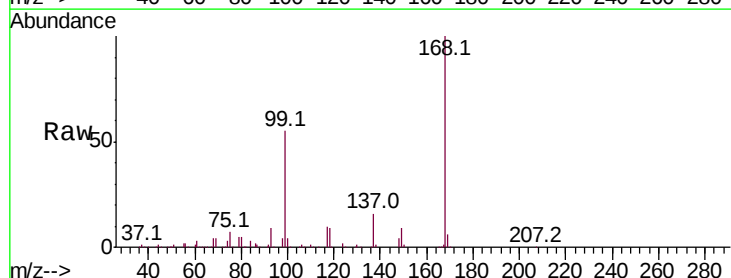
Instrument :
 MSVOA_X
 ClientSampleId :
 5S1-A-TOP

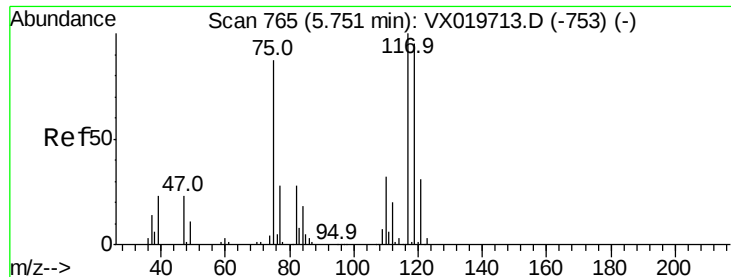
Tot Ion	Ratio	Lower	Upper
113	100		
111	102.1	81.9	122.9
192	20.8	16.7	25.1



#36
 1,1-Dichloropropene
 Concen: 5.024 ug/l
 RT: 5.62 min Scan# 744
 Delta R.T. -0.14 min
 Lab File: VX019779.D
 Acq: 09 Dec 2020 15:24

Tgt Ion	Ratio	Lower	Upper
75	100		
110	9.2	18.1	54.4#
77	0.0	25.3	37.9#

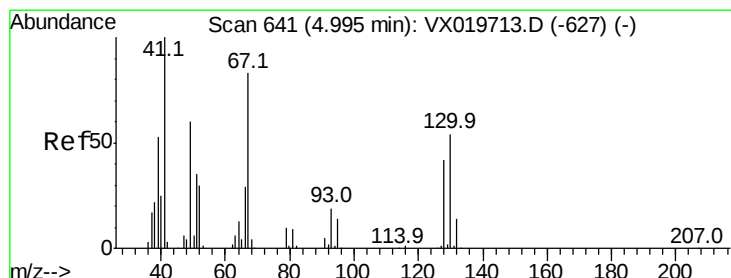
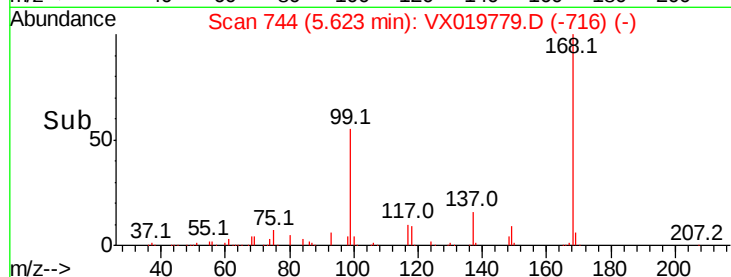
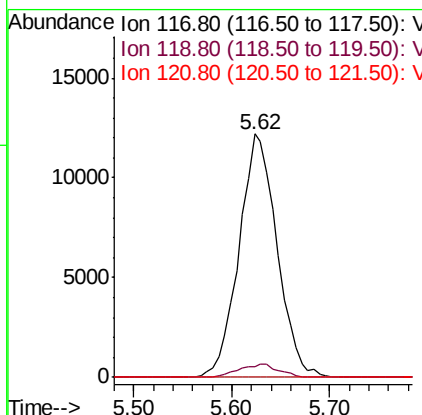
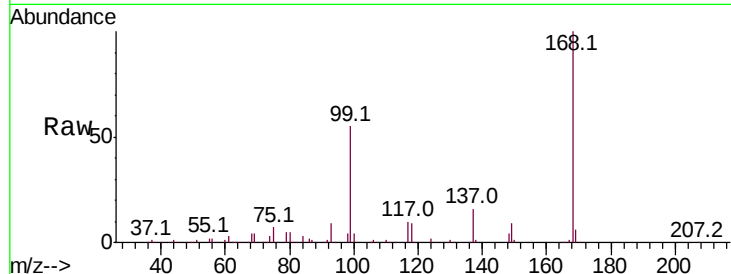




#38
Carbon Tetrachloride
Concen: 6.650 ug/l
RT: 5.62 min Scan# 744
Delta R.T. -0.13 min
Lab File: VX019779.D
Acq: 09 Dec 2020 15:24

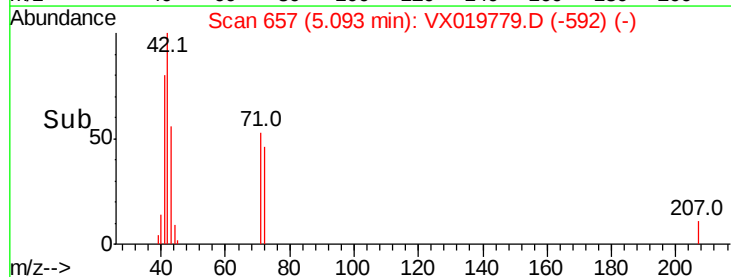
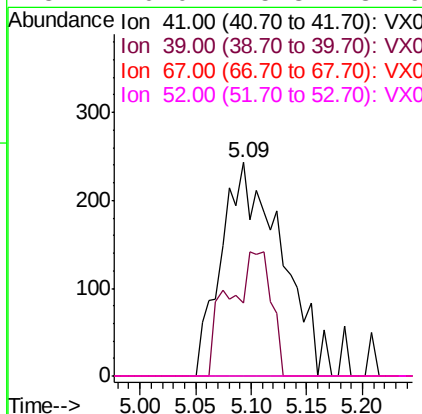
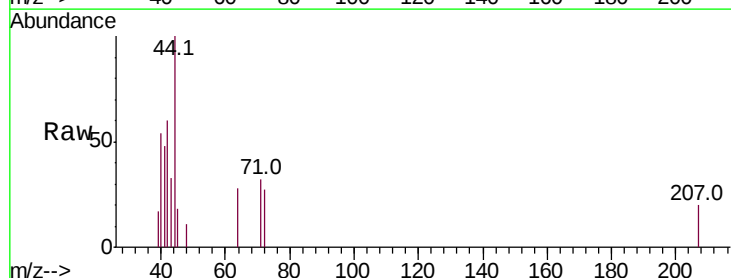
Instrument :
MSVOA_X
ClientSampleId :
5S1-A-TOP

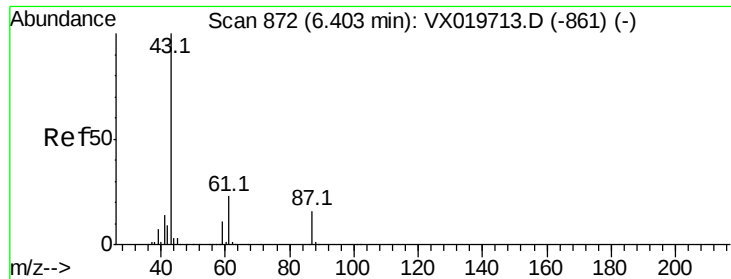
Tot Ion:117 Resp: 32730
Ion Ratio Lower Upper
117 100
119 4.4 76.2 114.2#
121 0.0 24.8 37.2#



#41
Methacrylonitrile
Concen: 0.329 ug/l
RT: 5.09 min Scan# 657
Delta R.T. 0.10 min
Lab File: VX019779.D
Acq: 09 Dec 2020 15:24

Tgt Ion: 41 Resp: 917
Ion Ratio Lower Upper
41 100
39 10.8 42.5 63.7#
67 0.0 65.0 97.6#
52 0.0 25.3 37.9#





#43

Isopropyl Acetate

Concen: 2.466 ug/l

RT: 6.41 min Scan# 873

Delta R.T. 0.01 min

Lab File: VX019779.D

Acq: 09 Dec 2020 15:24

Instrument :

MSVOA_X

ClientSampled :

5S1-A-TOP

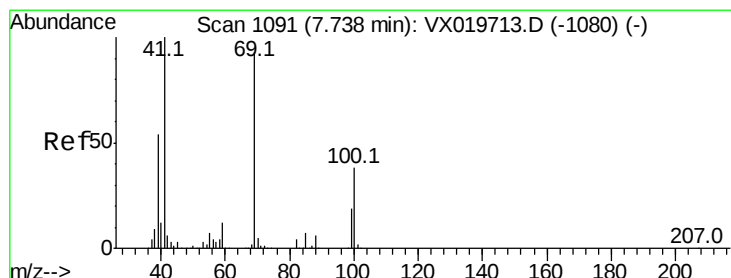
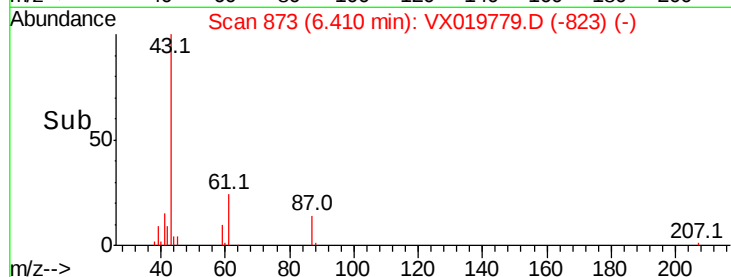
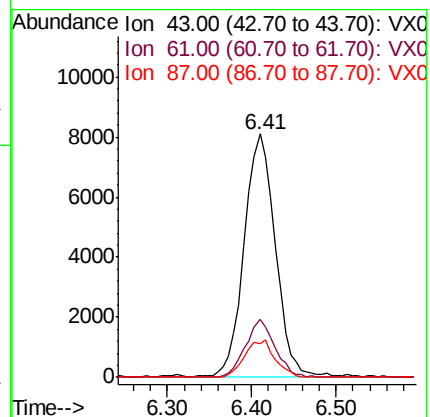
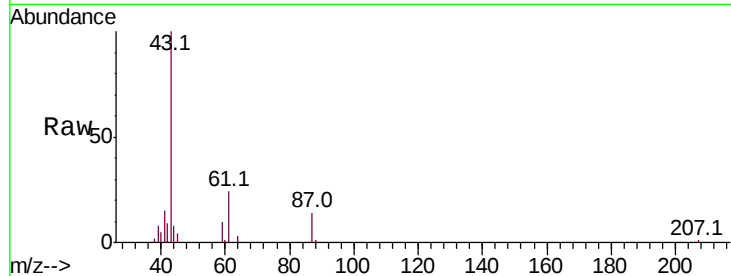
Tot Ion: 43 Resp: 20343

Ion Ratio Lower Upper

43 100

61 22.2 18.2 27.4

87 14.8 12.5 18.7



#48

Methyl methacrylate

Concen: 1.506 ug/l

RT: 7.65 min Scan# 1076

Delta R.T. -0.09 min

Lab File: VX019779.D

Acq: 09 Dec 2020 15:24

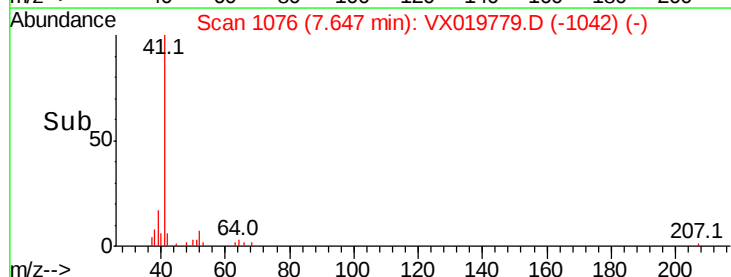
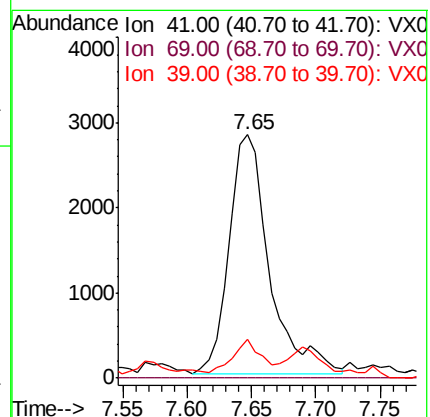
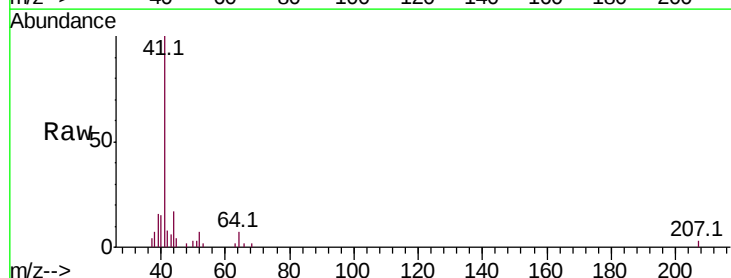
Tgt Ion: 41 Resp: 6110

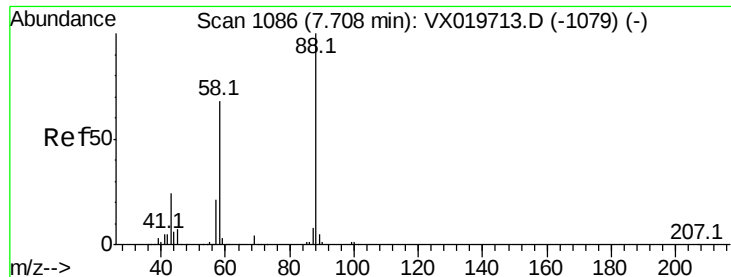
Ion Ratio Lower Upper

41 100

69 0.0 76.0 114.0#

39 0.0 44.6 67.0#





#49

1,4-Dioxane

Concen: 0.946 ug/l

RT: 7.85 min Scan# 1110

Delta R.T. 0.15 min

Lab File: VX019779.D

Acq: 09 Dec 2020 15:24

Instrument :

MSVOA_X

ClientSampleId :

5S1-A-TOP

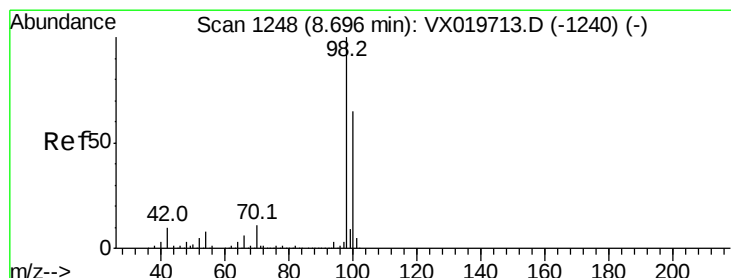
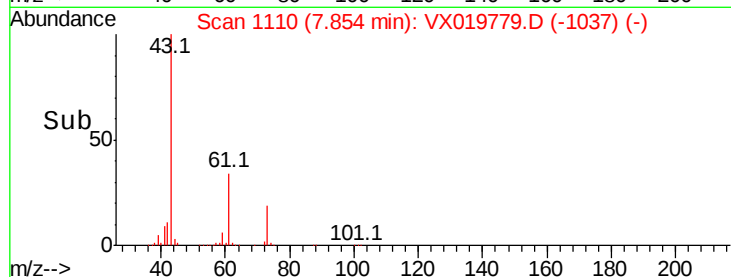
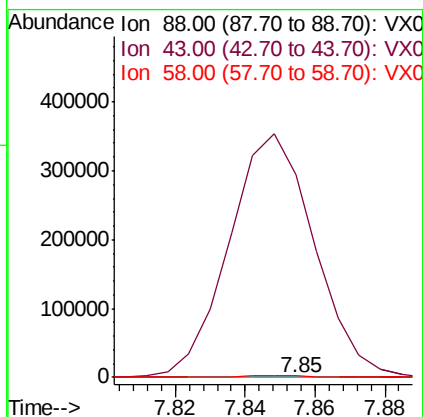
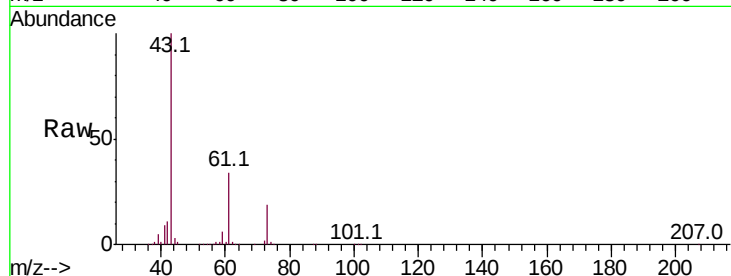
Tot Ion: 88 Resp: 93

Ion Ratio Lower Upper

88 100

43 649100.0 23.2 34.8#

58 3532.3 55.0 82.4#



#50

Toluene-d8

Concen: 49.414 ug/l

RT: 8.70 min Scan# 1248

Delta R.T. 0.00 min

Lab File: VX019779.D

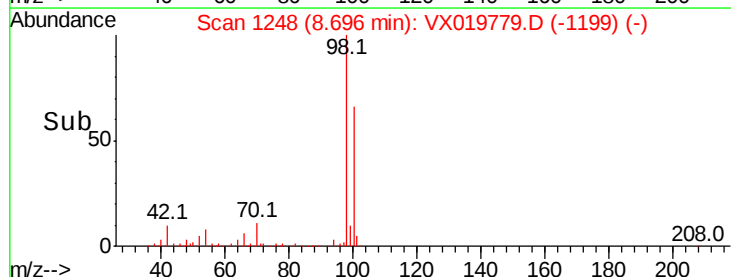
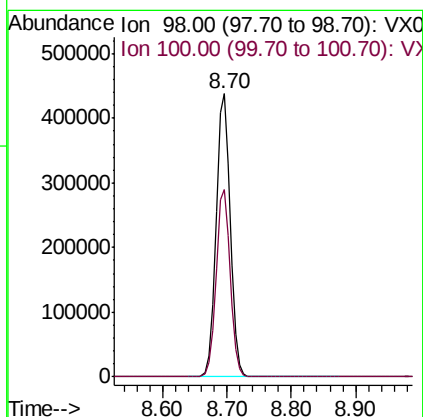
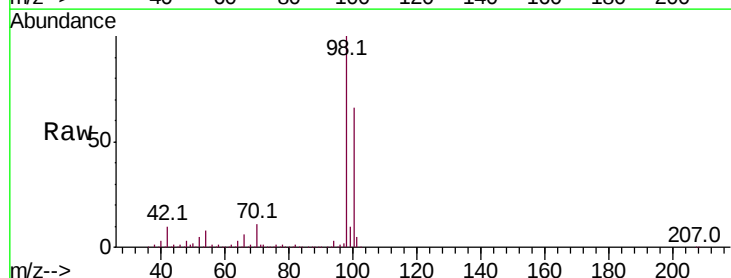
Acq: 09 Dec 2020 15:24

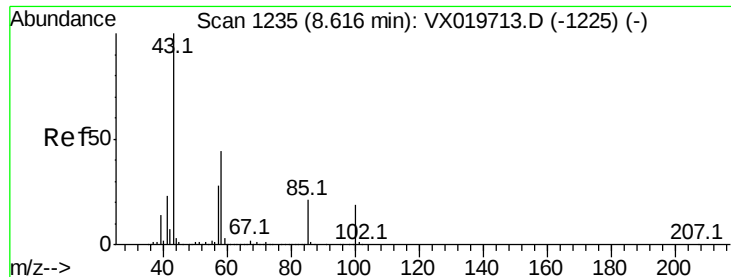
Tgt Ion: 98 Resp: 678087

Ion Ratio Lower Upper

98 100

100 65.9 51.9 77.9





#51

4-Methyl-2-Pentanone

Concen: 13.717 ug/l

RT: 8.59 min Scan# 1231

Delta R.T. -0.02 min

Lab File: VX019779.D

Acq: 09 Dec 2020 15:24

Instrument :

MSVOA_X

ClientSampleId :

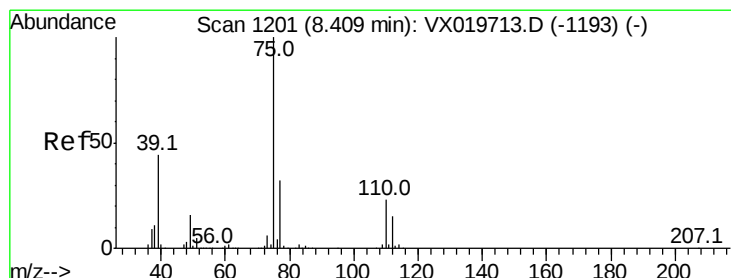
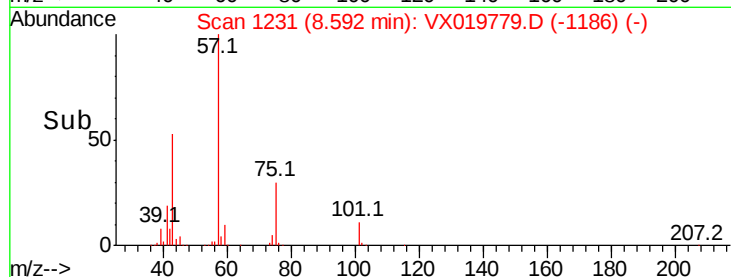
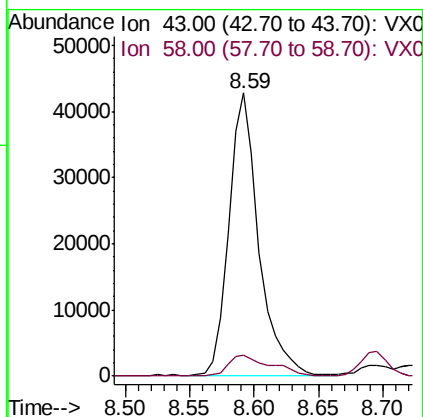
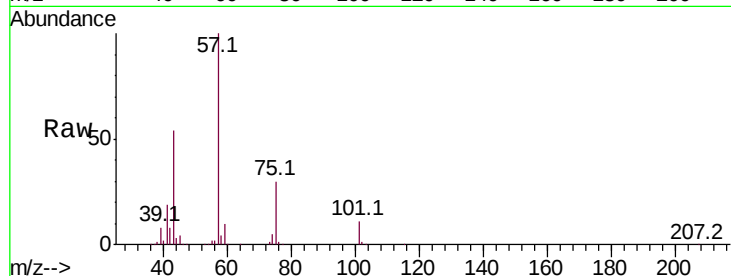
5S1-A-TOP

Tot Ion: 43 Resp: 69088

Ion Ratio Lower Upper

43 100

58 10.7 35.4 53.0#



#54

cis-1,3-Dichloropropene

Concen: 5.715 ug/l

RT: 8.59 min Scan# 1231

Delta R.T. 0.18 min

Lab File: VX019779.D

Acq: 09 Dec 2020 15:24

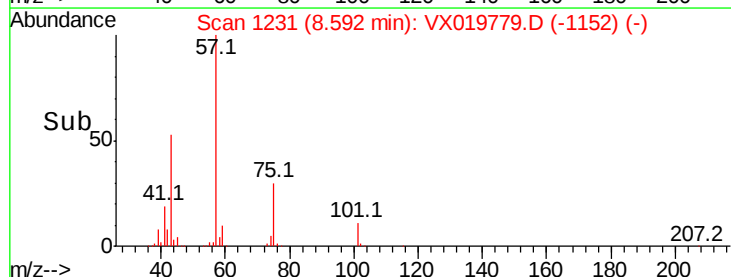
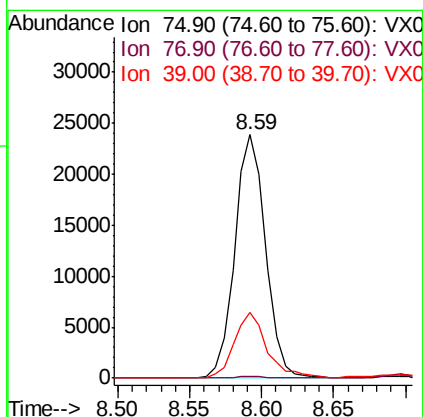
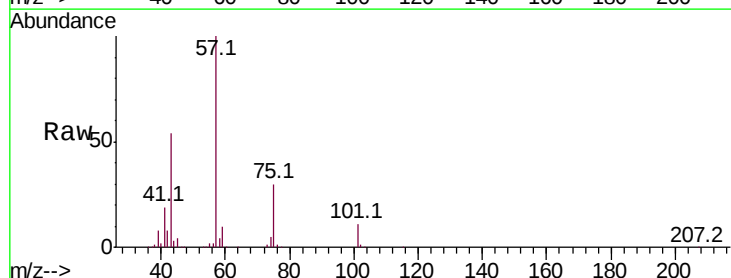
Tgt Ion: 75 Resp: 35426

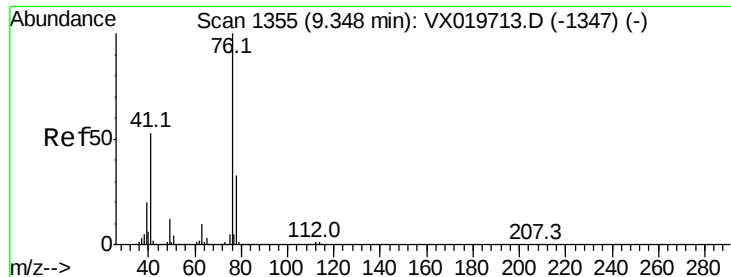
Ion Ratio Lower Upper

75 100

77 0.6 25.7 38.5#

39 26.8 35.1 52.7#





#57

1,3-Dichloropropane

Concen: 1.839 ug/l

RT: 9.52 min Scan# 1383

Delta R.T. 0.17 min

Lab File: VX019779.D

Acq: 09 Dec 2020 15:24

Instrument :

MSVOA_X

ClientSampleId :

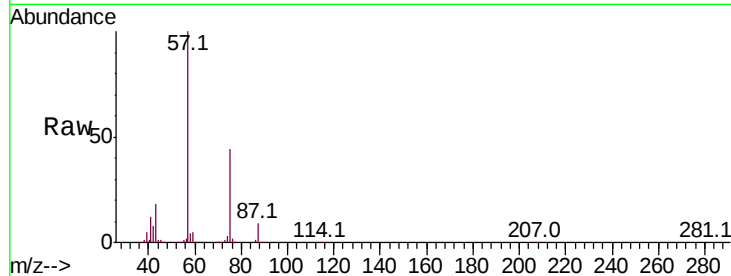
5S1-A-TOP

Tot Ion: 76 Resp: 12149

Ion Ratio Lower Upper

76 100

78 0.2 26.2 39.2#



Abundance Ion 75.90 (75.60 to 76.60): VX0

Ion 77.90 (77.60 to 78.60): VX0

9.52

10000

8000

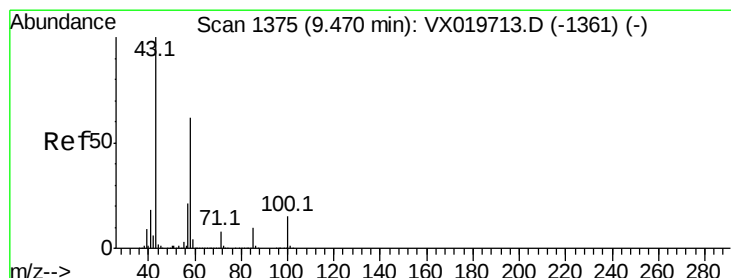
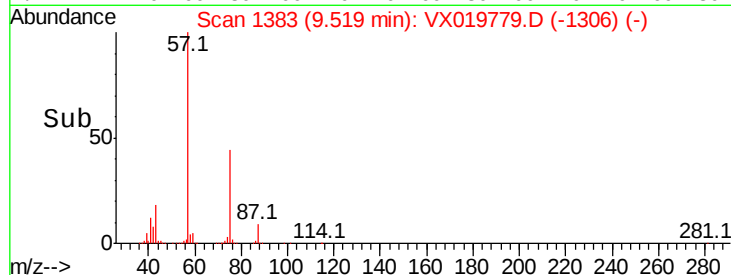
6000

4000

2000

0

Time--> 9.45 9.50 9.55



#59

2-Hexanone

Concen: 36.260 ug/l

RT: 9.52 min Scan# 1383

Delta R.T. 0.05 min

Lab File: VX019779.D

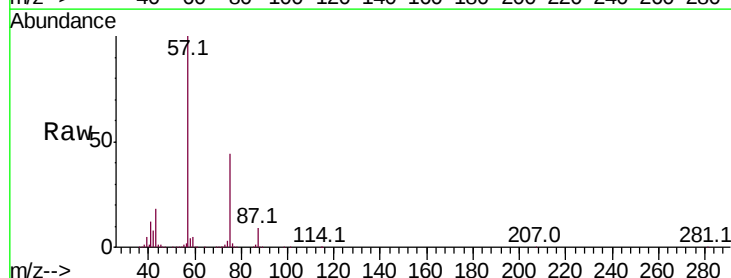
Acq: 09 Dec 2020 15:24

Tgt Ion: 43 Resp: 141564

Ion Ratio Lower Upper

43 100

58 21.7 30.9 92.8#



Abundance Ion 43.00 (42.70 to 43.70): VX0

Ion 58.00 (57.70 to 58.70): VX0

9.52

120000

100000

80000

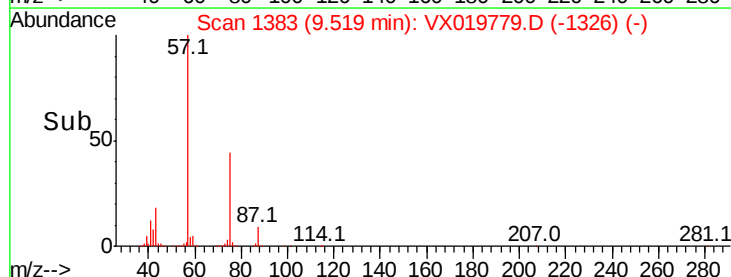
60000

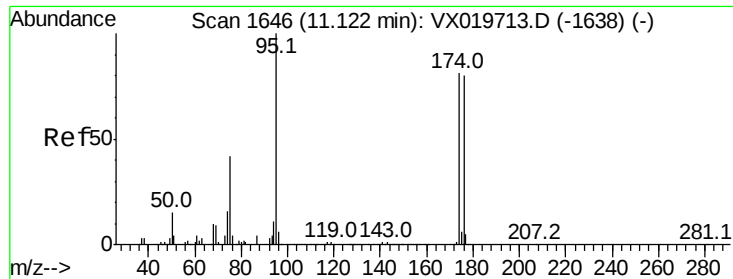
40000

20000

0

Time--> 9.50 9.55





#62

4-Bromofluorobenzene

Concen: 45.940 ug/l

RT: 11.12 min Scan# 1646

Delta R.T. 0.00 min

Lab File: VX019779.D

Acq: 09 Dec 2020 15:24

Instrument :

MSVOA_X

ClientSampleId :

5S1-A-TOP

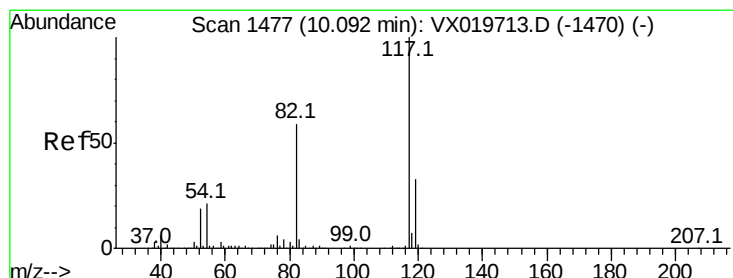
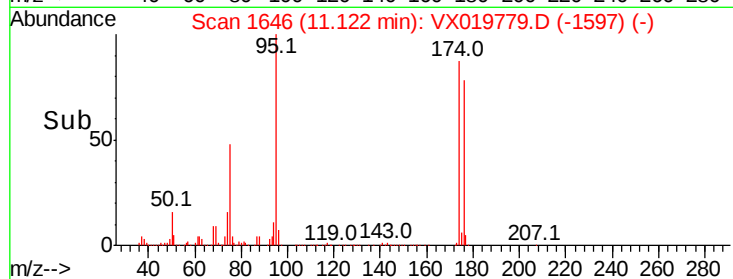
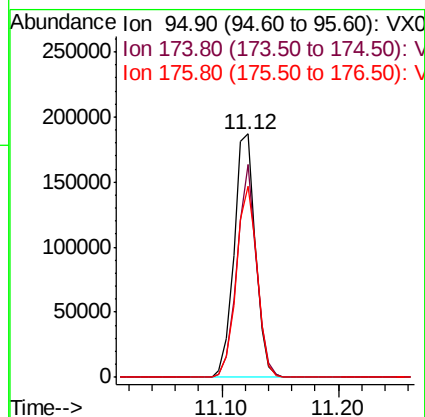
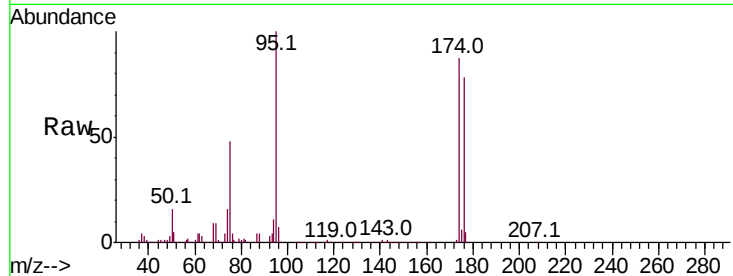
Tot Ion: 95 Resp: 239944

Ion Ratio Lower Upper

95 100

174 79.5 0.0 154.6

176 76.5 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: VX019779.D

Acq: 09 Dec 2020 15:24

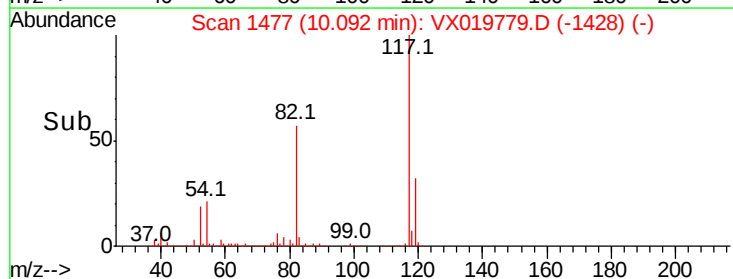
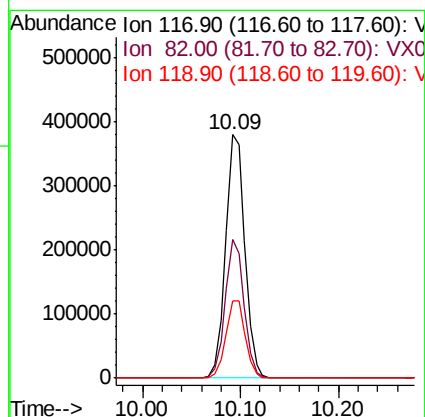
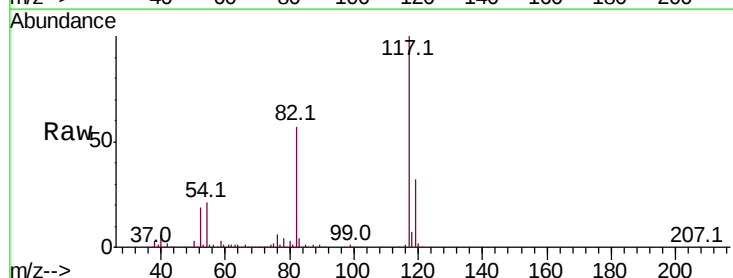
Tgt Ion: 117 Resp: 518122

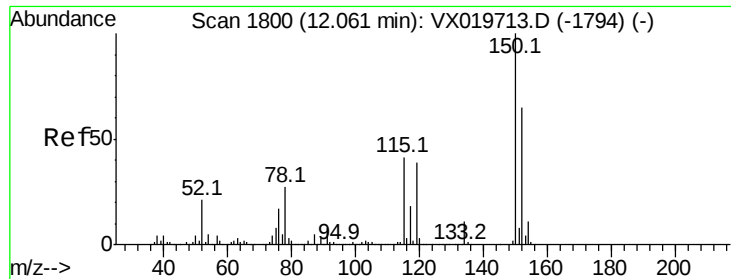
Ion Ratio Lower Upper

117 100

82 56.7 47.4 71.2

119 31.9 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: VX019779.D

Acq: 09 Dec 2020 15:24

Instrument :

MSVOA_X

ClientSampleId :

5S1-A-TOP

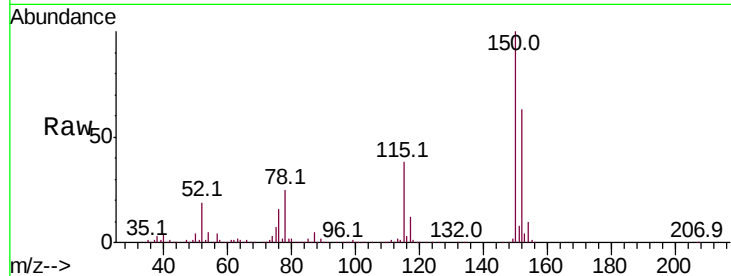
Tot Ion:152 Resp: 229844

Ion Ratio Lower Upper

152 100

115 59.4 41.1 123.3

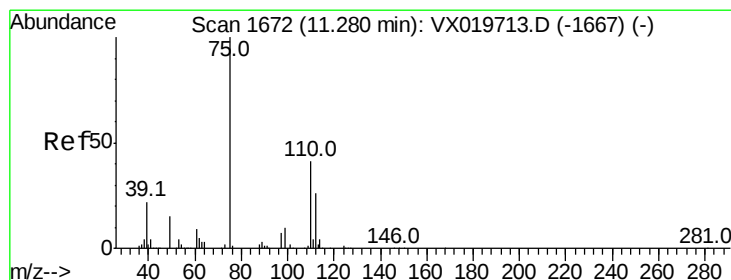
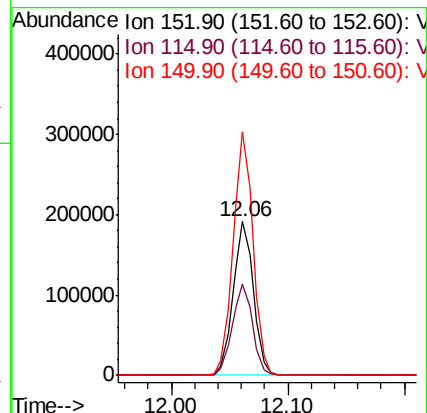
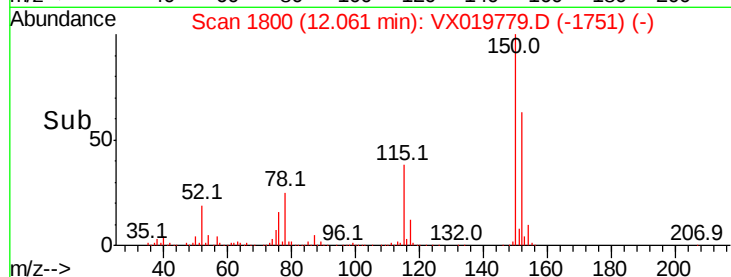
150 156.0 0.0 349.0



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: 22.506 ug/l

RT: 11.12 min Scan# 1645

Delta R.T. -0.16 min

Lab File: VX019779.D

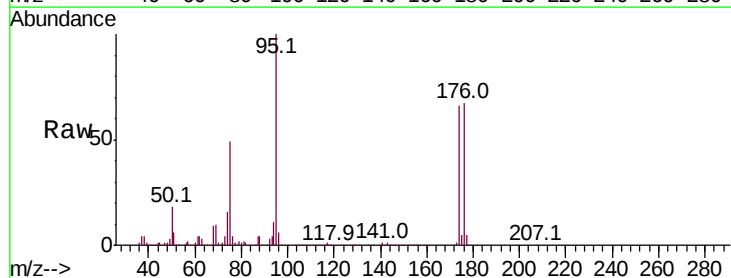
Acq: 09 Dec 2020 15:24

Tgt Ion: 75 Resp: 116016

Ion Ratio Lower Upper

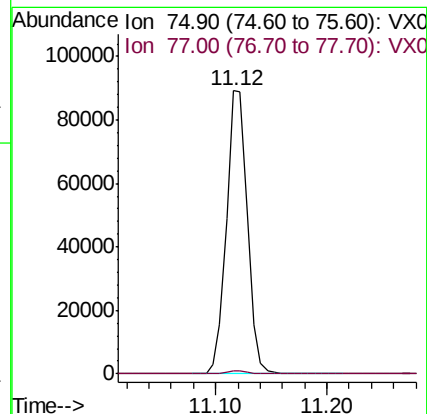
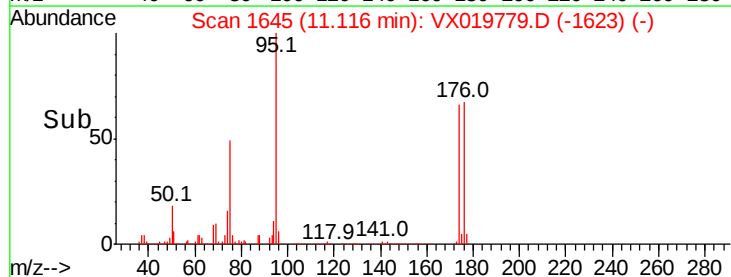
75 100

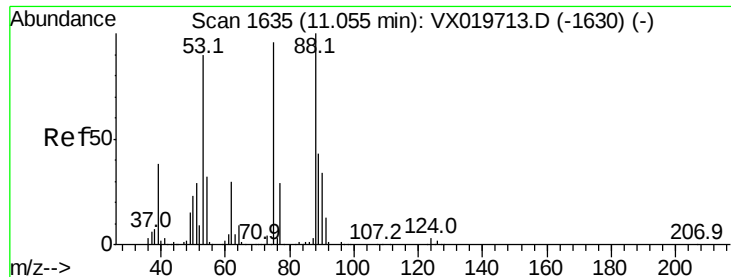
77 1.2 19.1 57.5#



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: 65.059 ug/l

RT: 11.12 min Scan# 1645

Delta R.T. 0.06 min

Lab File: VX019779.D

Acq: 09 Dec 2020 15:24

Instrument :

MSVOA_X

ClientSampleId :

5S1-A-TOP

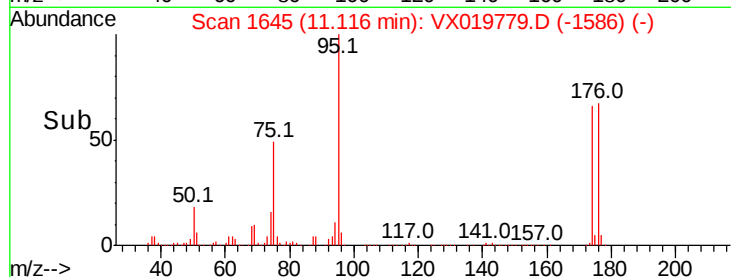
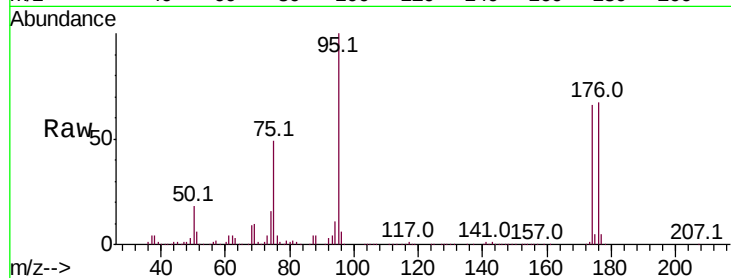
Tot Ion: 75 Resp: 116016

Ion Ratio Lower Upper

75 100

53 0.1 74.5 111.7#

89 0.0 37.9 56.9#



Abundance Ion 74.90 (74.60 to 75.60): VX0

Ion 53.00 (52.70 to 53.70): VX0

Ion 88.90 (88.60 to 89.60): VX0

