

Data Path : Z:\VOASRV\HPCHEM1\MSVOA X\DATA\VX120920\
 Data File : VX019791.D
 Acq On : 09 Dec 2020 20:03
 Operator : JC/MD
 Sample : L4971-21
 Misc : 5.0mL/MSVOA X/WATER
 ALS Vial : 24 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :
 5S2-D-TOP

Quant Time: Dec 10 05:42:33 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	330621	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	6.83	114	541035	50.00	ug/l	0.00
63) Chlorobenzene-d5	10.10	117	489485	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.06	152	206302	50.00	ug/l	0.00

System Monitoring Compounds

33) 1,2-Dichloroethane-d4	6.03	65	204673	47.10	ug/l	0.00
Spiked Amount	50.000	Range	61 - 141	Recovery	=	94.20%
35) Dibromofluoromethane	5.46	113	166379	47.58	ug/l	0.00
Spiked Amount	50.000	Range	69 - 133	Recovery	=	95.16%
50) Toluene-d8	8.70	98	663905	49.73	ug/l	0.00
Spiked Amount	50.000	Range	65 - 126	Recovery	=	99.46%
62) 4-Bromofluorobenzene	11.12	95	224973	44.28	ug/l	0.00
Spiked Amount	50.000	Range	58 - 135	Recovery	=	88.56%

Target Compounds

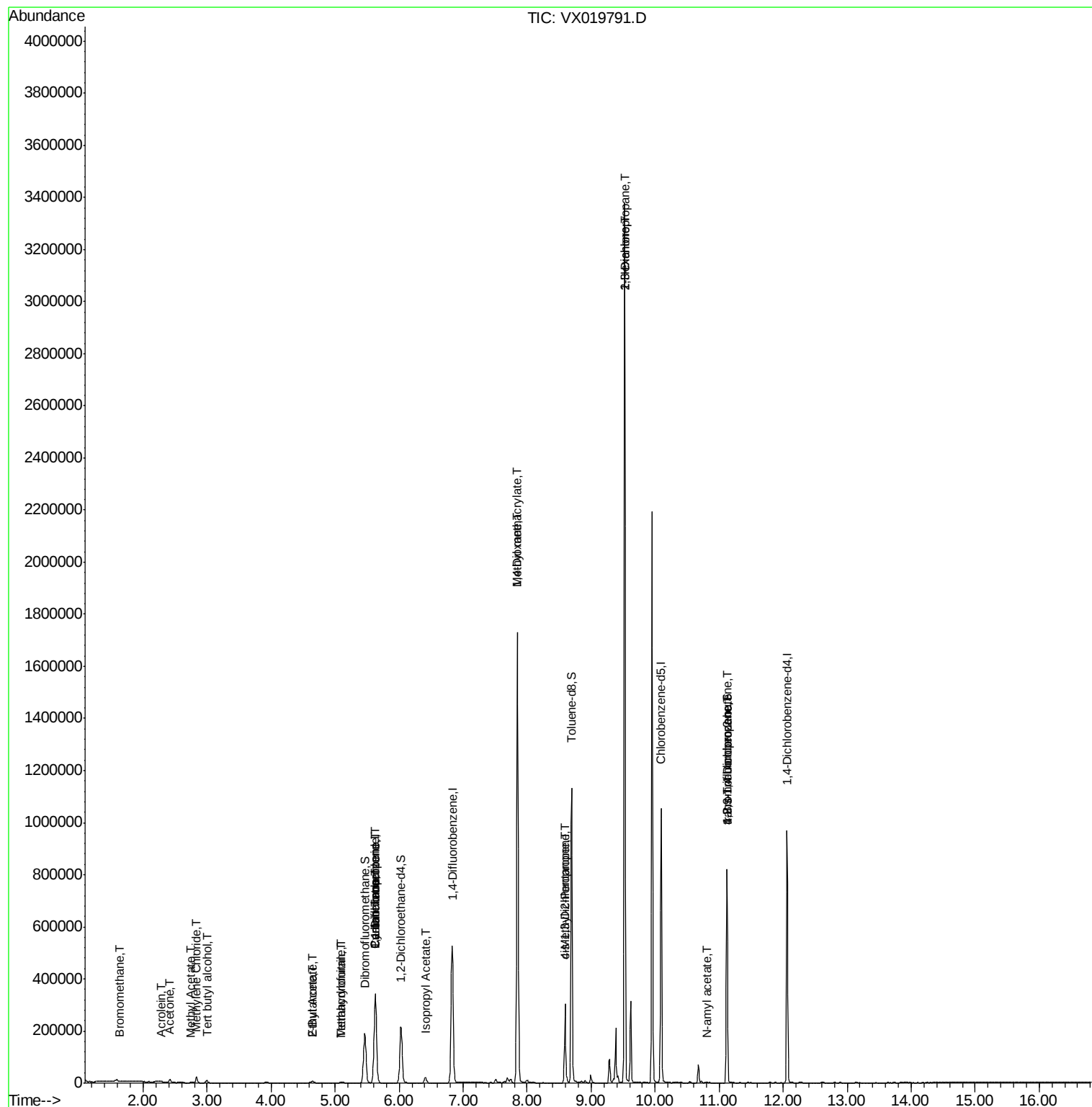
					Qvalue	
5) Bromomethane	1.64	94	598	0.480	ug/l	82
11) Tert butyl alcohol	3.00	59	6428	4.631	ug/l #	81
13) Acrolein	2.28	56	182	0.379	ug/l #	1
16) Acetone	2.42	43	13617	8.337	ug/l	98
18) Methyl Acetate	2.75	43	2800	0.701	ug/l #	85
20) Methylene Chloride	2.84	84	10526	1.442	ug/l	96
25) 2-Butanone	4.64	43	6389	2.546	ug/l	98
29) Tetrahydrofuran	5.09	42	2869	1.774	ug/l	91
31) Cyclohexane	5.63	56	6197	1.146	ug/l #	1
36) 1,1-Dichloropropene	5.63	75	24687	5.050	ug/l #	48
37) Ethyl Acetate	4.64	43	6389	1.294	ug/l #	65
38) Carbon Tetrachloride	5.63	117	31843	6.651	ug/l #	17
41) Methacrylonitrile	5.10	41	1841	0.679	ug/l #	41
43) Isopropyl Acetate	6.41	43	26925	3.355	ug/l	99
48) Methyl methacrylate	7.85	41	139561	35.359	ug/l #	36
49) 1,4-Dioxane	7.84	88	295	3.085	ug/l #	1
51) 4-Methyl-2-Pentanone	8.59	43	99195	20.245	ug/l #	47
54) cis-1,3-Dichloropropene	8.59	75	51676	8.570	ug/l #	60
57) 1,3-Dichloropropane	9.52	76	30053	4.676	ug/l #	43
59) 2-Hexanone	9.52	43	360300	94.868	ug/l #	46
74) N-amyl acetate	10.80	43	1167	0.207	ug/l #	45
76) 1,2,3-Trichloropropane	11.12	75	106541	23.026	ug/l #	39
81) trans-1,4-Dichloro-2-buten	11.12	75	106541	66.564	ug/l #	12

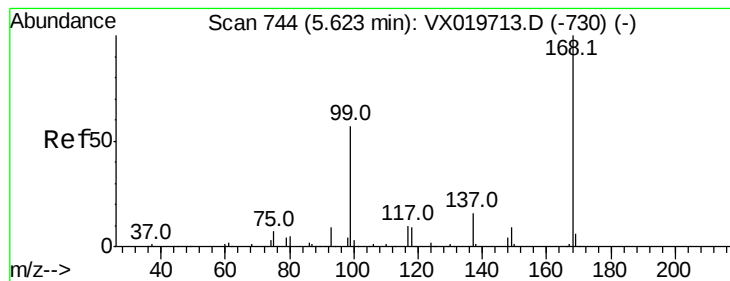
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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Quant Time: Dec 10 05:42:33 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: VX019791.D

Acq: 09 Dec 2020 20:03

Instrument :

MSVOA_X

ClientSampleId :

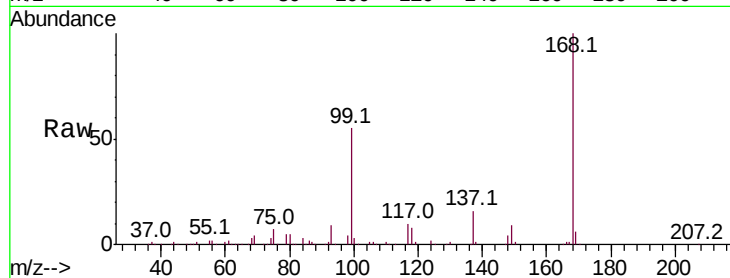
5S2-D-TOP

Tot Ion:168 Resp: 330621

Ion Ratio Lower Upper

168 100

99 54.9 45.8 68.6



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VX0

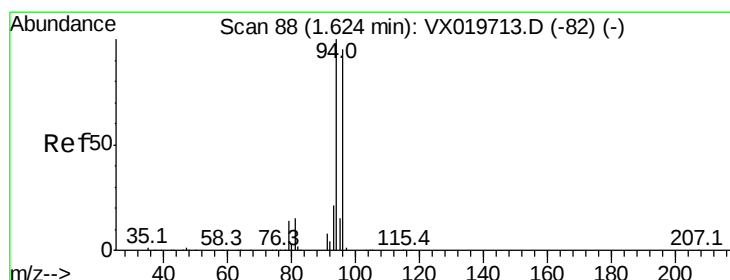
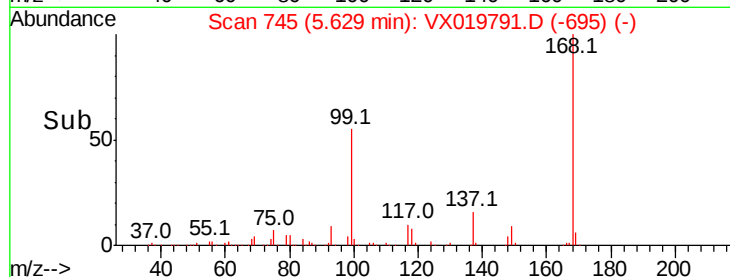
5.63

100000

50000

0

Time-->



#5

Bromomethane

Concen: 0.480 ug/l

RT: 1.64 min Scan# 90

Delta R.T. 0.01 min

Lab File: VX019791.D

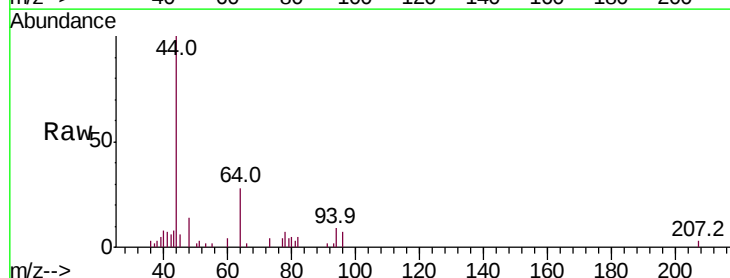
Acq: 09 Dec 2020 20:03

Tgt Ion: 94 Resp: 598

Ion Ratio Lower Upper

94 100

96 77.7 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

300

250

200

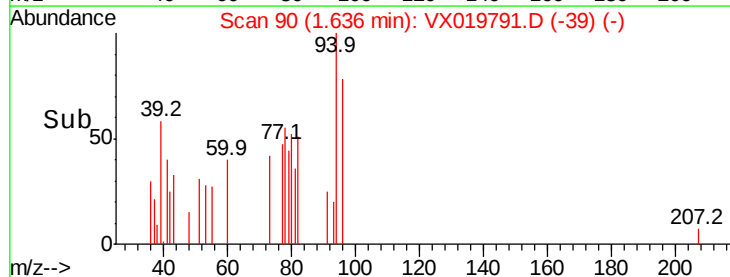
150

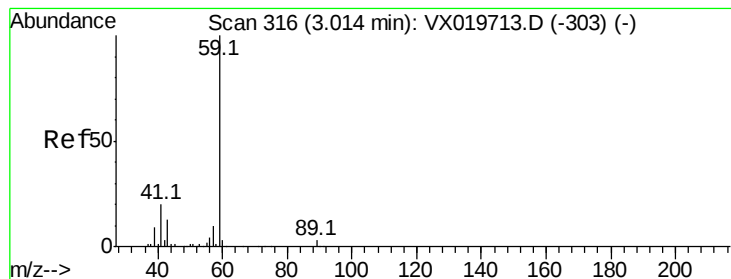
100

50

0

Time-->



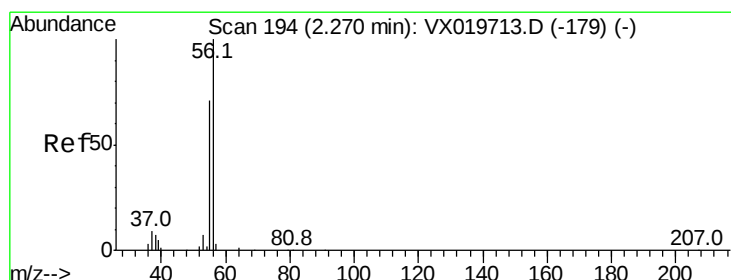
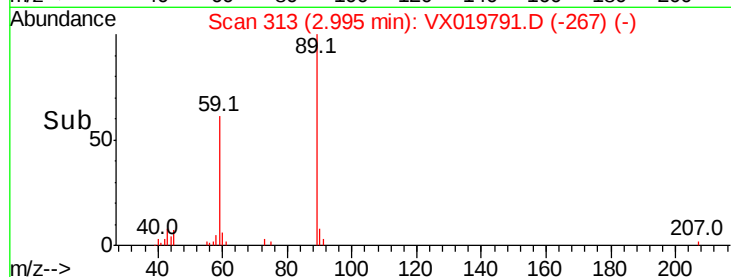
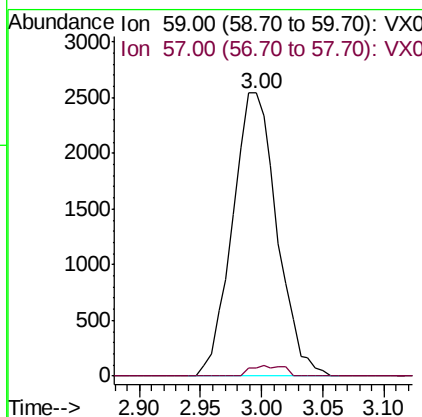
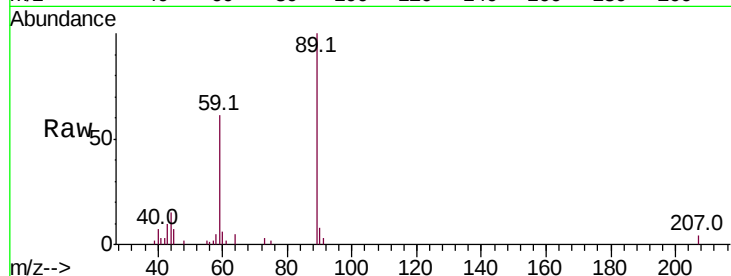


#11

Tert butyl alcohol
 Concen: 4.631 ug/l
 RT: 3.00 min Scan# 313
 Delta R.T. -0.02 min
 Lab File: VX019791.D
 Acq: 09 Dec 2020 20:03

Instrument :
 MSVOA_X
 ClientSampleId :
 5S2-D-TOP

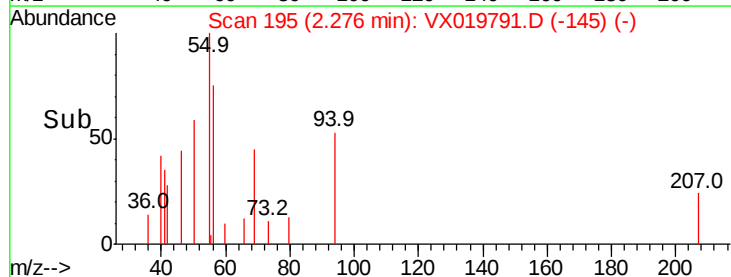
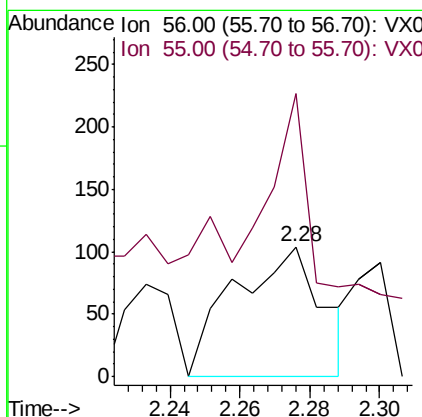
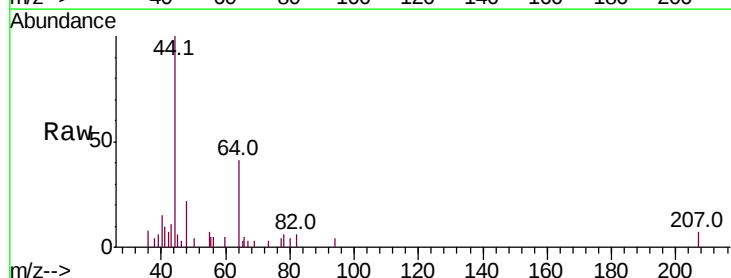
Tot Ion: 59 Resp: 6428
 Ion Ratio Lower Upper
 59 100
 57 2.8 7.8 11.8#

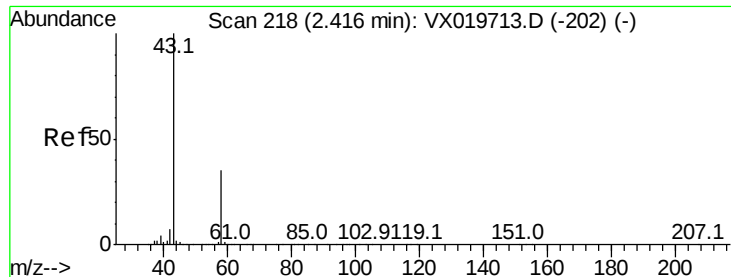


#13

Acrolein
 Concen: 0.379 ug/l
 RT: 2.28 min Scan# 195
 Delta R.T. 0.01 min
 Lab File: VX019791.D
 Acq: 09 Dec 2020 20:03

Tgt Ion: 56 Resp: 182
 Ion Ratio Lower Upper
 56 100
 55 170.3 56.4 84.6#





#16

Acetone

Concen: 8.337 ug/l

RT: 2.42 min Scan# 218

Delta R.T. -0.00 min

Lab File: VX019791.D

Acq: 09 Dec 2020 20:03

Instrument :

MSVOA_X

ClientSampleId :

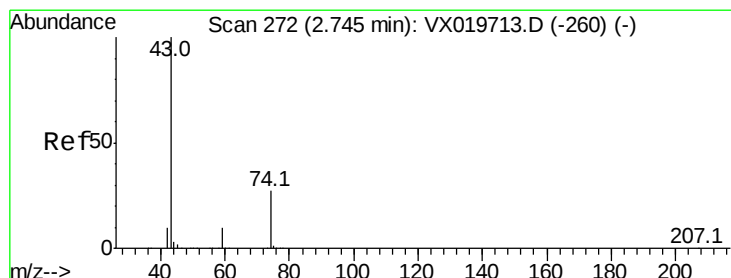
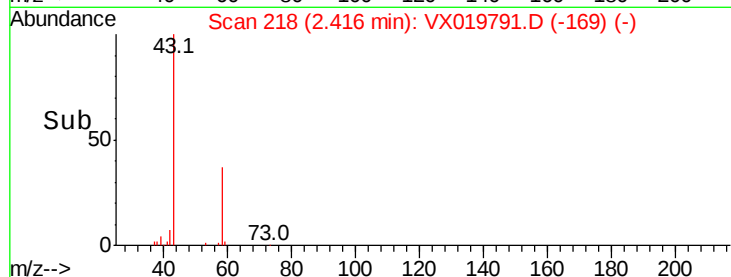
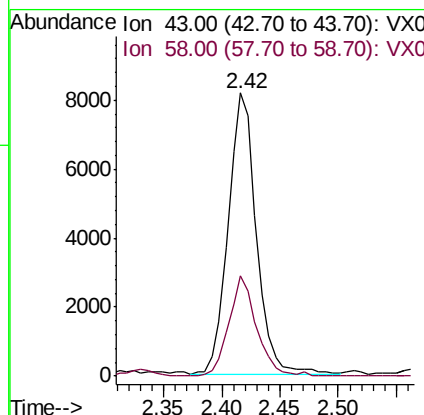
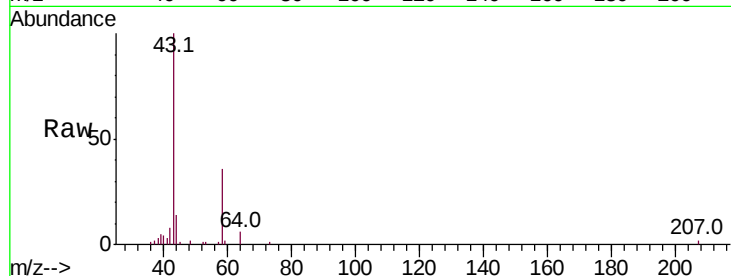
5S2-D-TOP

Tot Ion: 43 Resp: 13617

Ion Ratio Lower Upper

43 100

58 35.9 27.8 41.8



#18

Methyl Acetate

Concen: 0.701 ug/l

RT: 2.75 min Scan# 272

Delta R.T. -0.00 min

Lab File: VX019791.D

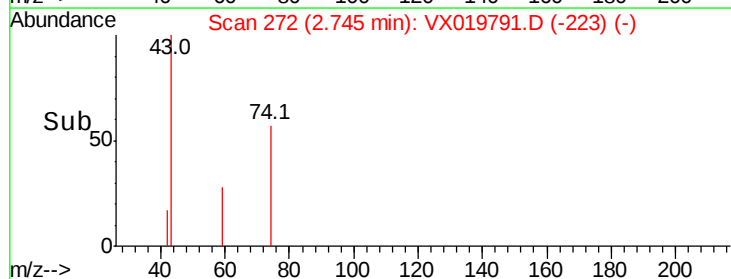
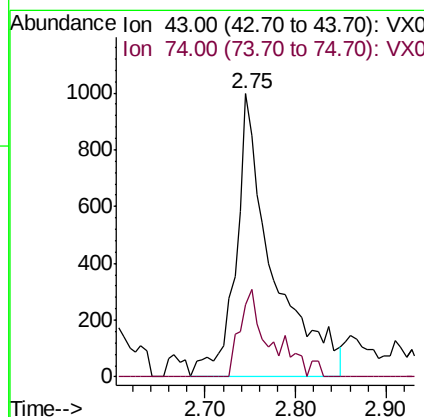
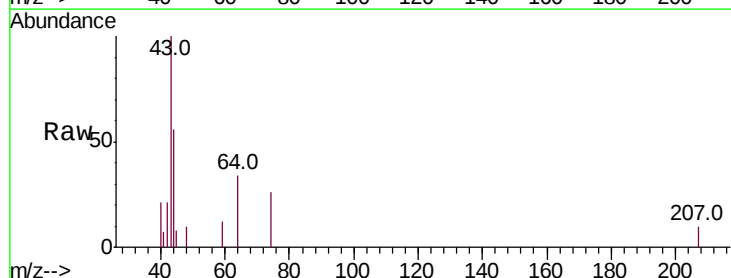
Acq: 09 Dec 2020 20:03

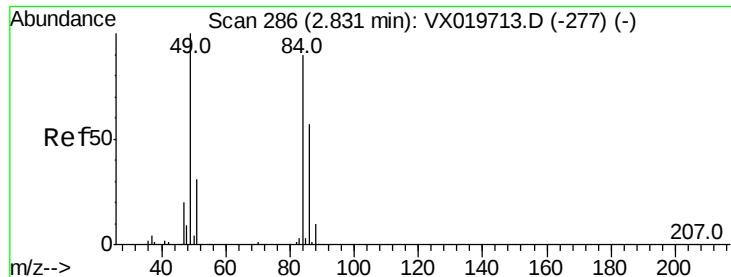
Tgt Ion: 43 Resp: 2800

Ion Ratio Lower Upper

43 100

74 19.6 21.9 32.9#

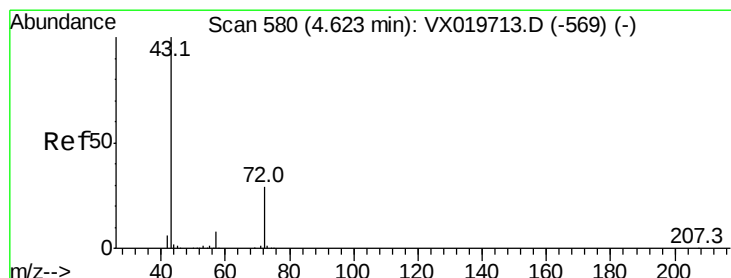
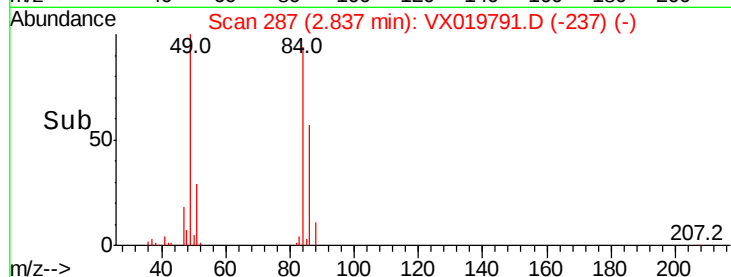
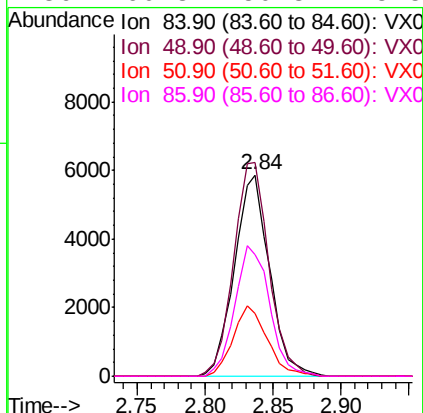
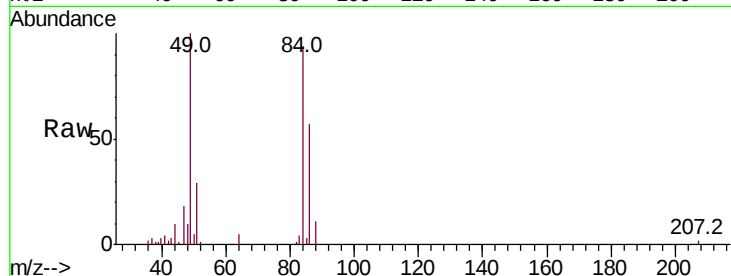




#20
Methvlene Chloride
Concen: 1.442 ug/l
RT: 2.84 min Scan# 287
Delta R.T. 0.01 min
Lab File: VX019791.D
Acq: 09 Dec 2020 20:03

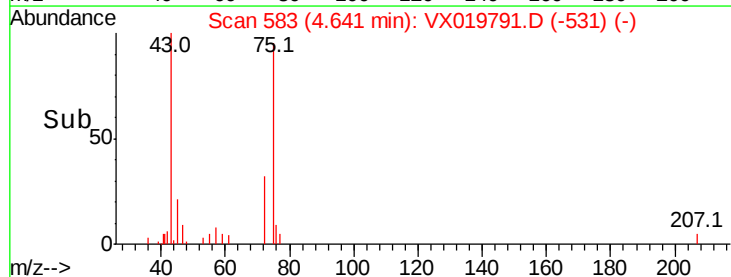
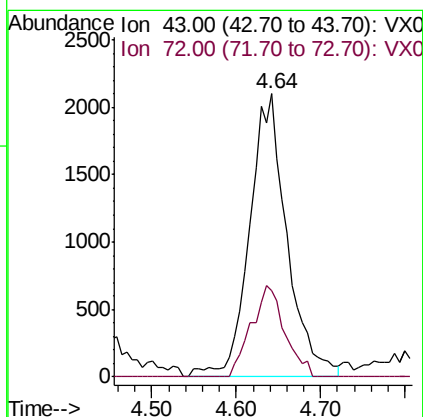
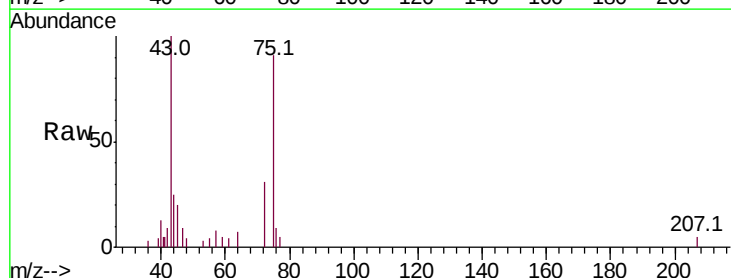
Instrument :
MSVOA_X
ClientSampleId :
5S2-D-TOP

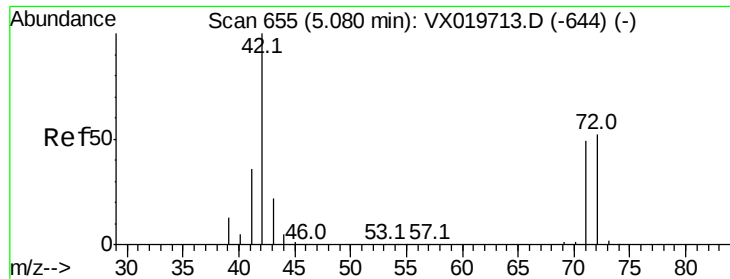
Tot Ion: 84 Resp: 10526
Ion Ratio Lower Upper
84 100
49 106.3 88.6 132.8
51 31.3 27.0 40.6
86 60.3 50.3 75.5



#25
2-Butanone
Concen: 2.546 ug/l
RT: 4.64 min Scan# 583
Delta R.T. 0.02 min
Lab File: VX019791.D
Acq: 09 Dec 2020 20:03

Tgt Ion: 43 Resp: 6389
Ion Ratio Lower Upper
43 100
72 30.6 23.7 35.5





#29

Tetrahydrofuran

Concen: 1.774 ug/l

RT: 5.09 min Scan# 656

Delta R.T. 0.01 min

Lab File: VX019791.D

Acq: 09 Dec 2020 20:03

Instrument :

MSVOA_X

ClientSampleId :

5S2-D-TOP

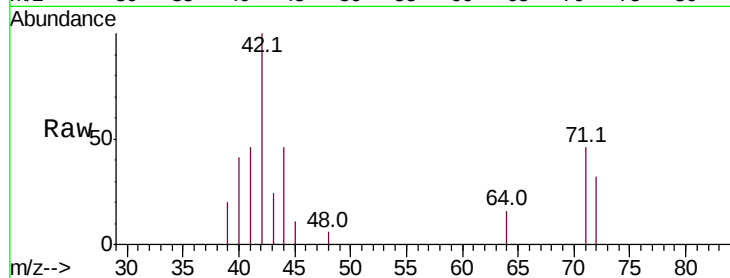
Tot Ion: 42 Resp: 2869

Ion Ratio Lower Upper

42 100

72 44.2 41.7 62.5

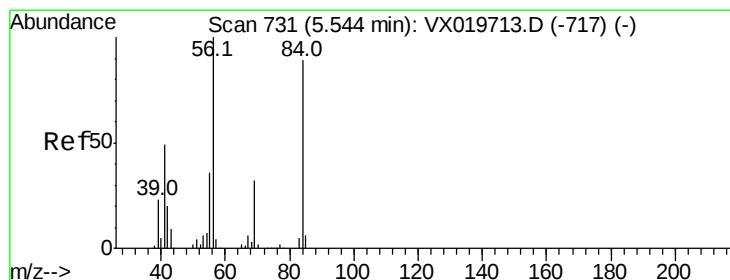
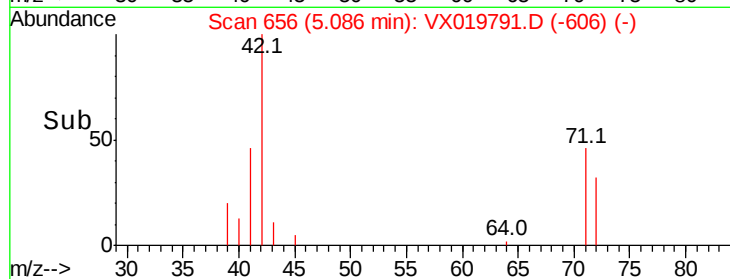
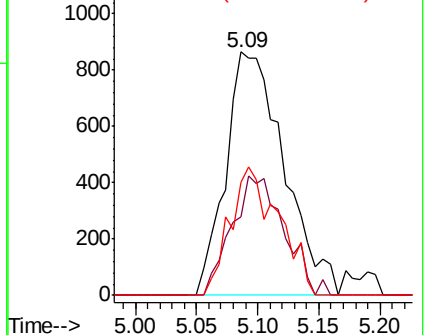
71 44.3 38.4 57.6



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: 1.146 ug/l

RT: 5.63 min Scan# 745

Delta R.T. 0.09 min

Lab File: VX019791.D

Acq: 09 Dec 2020 20:03

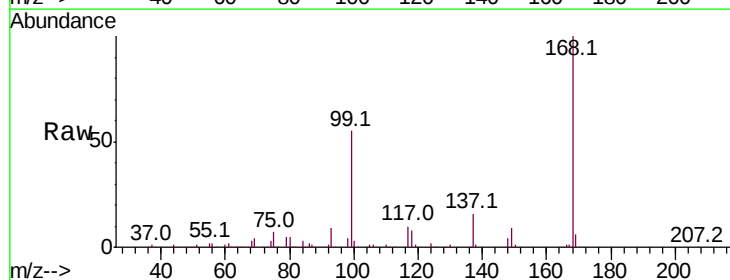
Tgt Ion: 56 Resp: 6197

Ion Ratio Lower Upper

56 100

69 196.9 25.3 37.9#

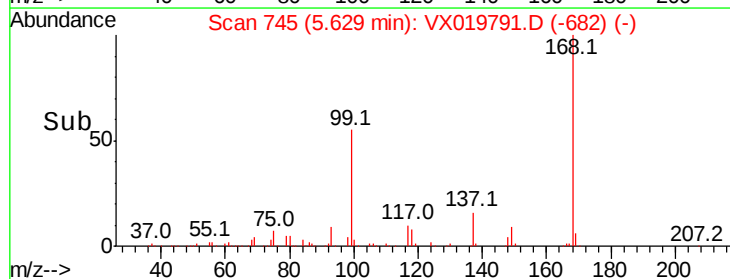
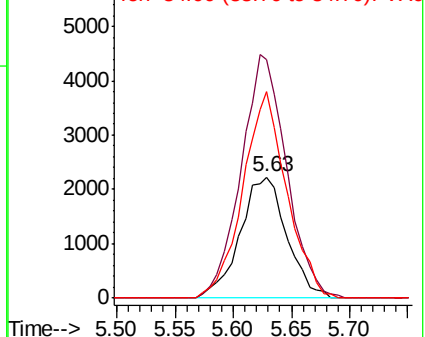
84 170.5 71.4 107.0#

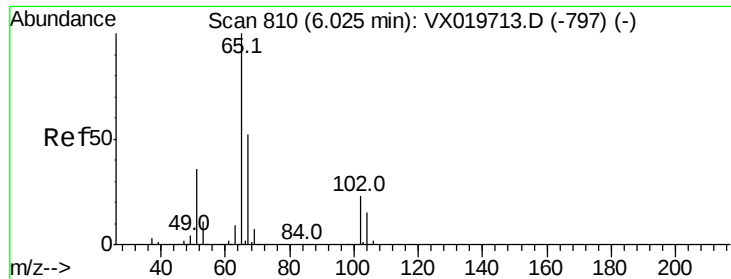


Abundance Ion 56.00 (55.70 to 56.70): VX0

Ion 69.00 (68.70 to 69.70): VX0

Ion 84.00 (83.70 to 84.70): VX0

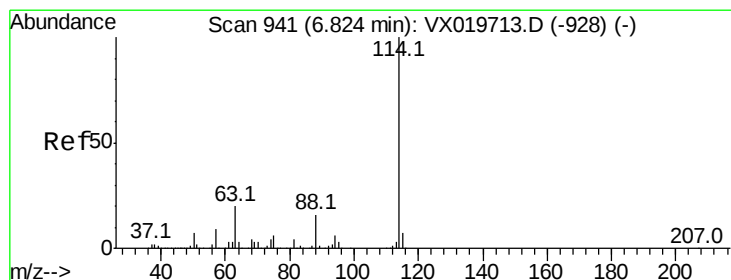
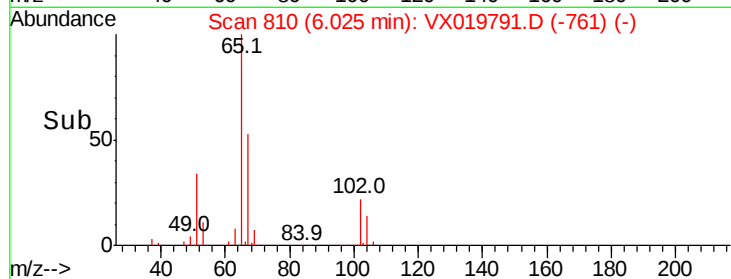
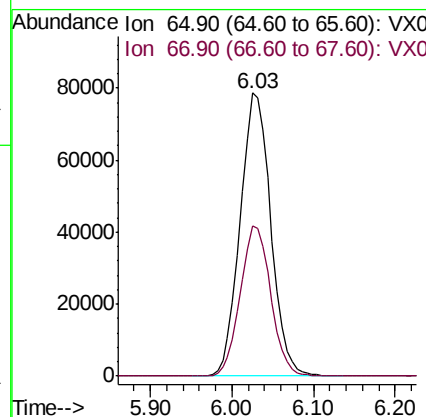
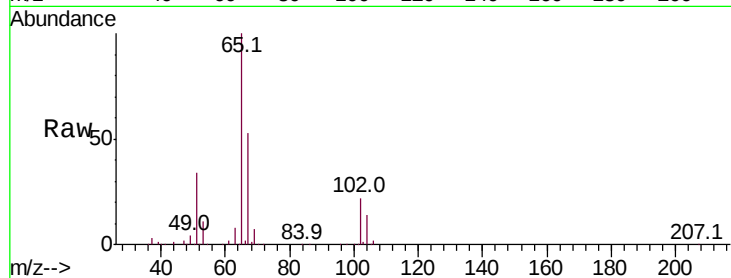




#33
 1,2-Dichloroethane-d4
 Concen: 47.102 ug/l
 RT: 6.03 min Scan# 810
 Delta R.T. -0.00 min
 Lab File: VX019791.D
 Acq: 09 Dec 2020 20:03

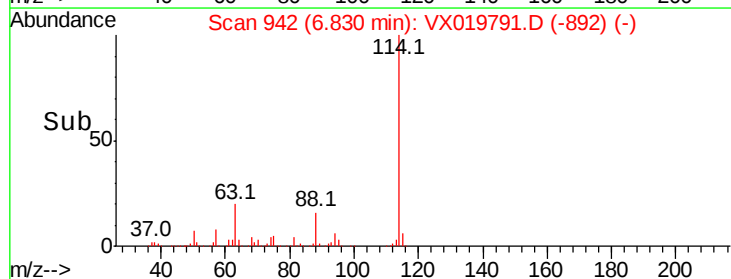
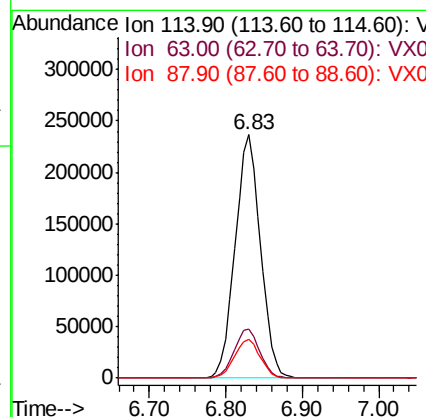
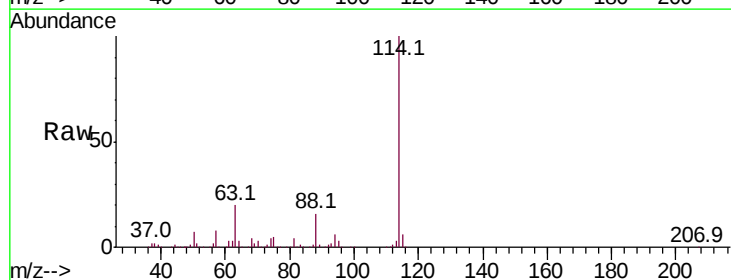
Instrument :
 MSVOA_X
 ClientSampleId :
 5S2-D-TOP

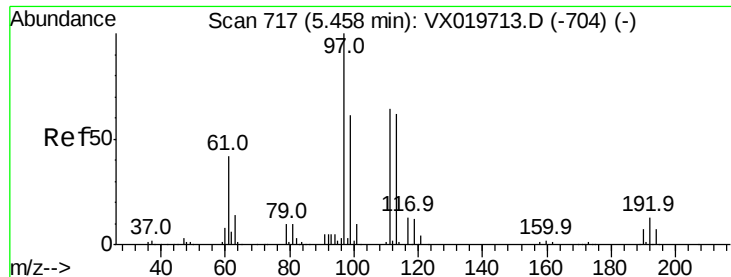
Tot Ion: 65 Resp: 204673
 Ion Ratio Lower Upper
 65 100
 67 52.9 0.0 105.4



#34
 1,4-Difluorobenzene
 Concen: 50.000 ug/l
 RT: 6.83 min Scan# 942
 Delta R.T. 0.01 min
 Lab File: VX019791.D
 Acq: 09 Dec 2020 20:03

Tgt Ion: 114 Resp: 541035
 Ion Ratio Lower Upper
 114 100
 63 19.9 0.0 40.8
 88 16.1 0.0 32.8





#35

Dibromofluoromethane

Concen: 47.583 ug/l

RT: 5.46 min Scan# 718

Delta R.T. 0.01 min

Lab File: VX019791.D

Acq: 09 Dec 2020 20:03

Instrument :

MSVOA_X

ClientSampleId :

5S2-D-TOP

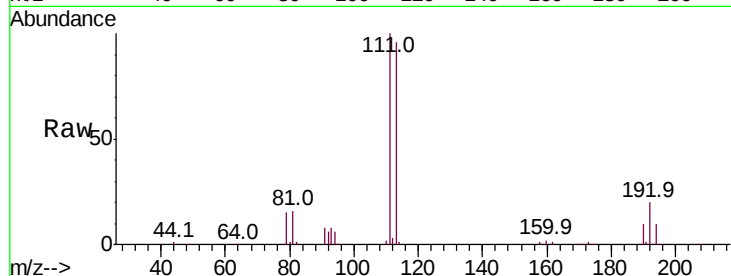
Tot Ion:113 Resp: 166379

Ion Ratio Lower Upper

113 100

111 102.6 81.9 122.9

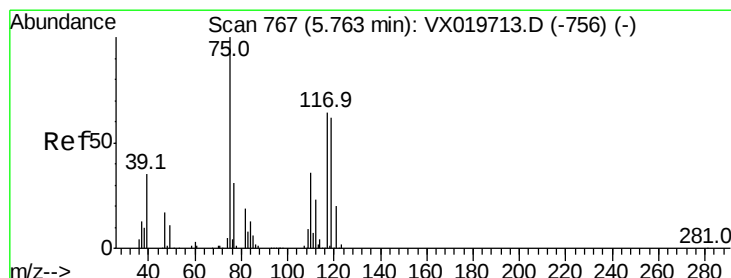
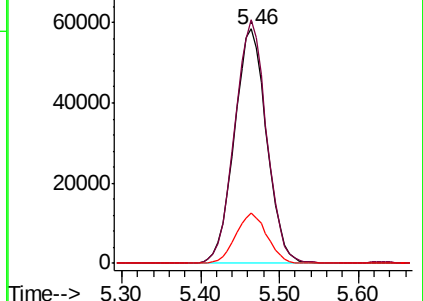
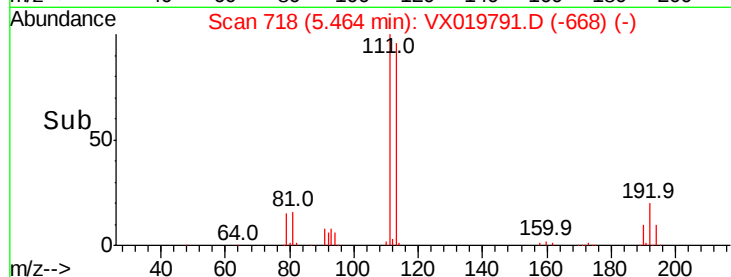
192 20.7 16.7 25.1



Abundance Ion 112.80 (112.50 to 113.50): V

Ion 110.80 (110.50 to 111.50): V

Ion 191.70 (191.40 to 192.40): V



#36

1,1-Dichloropropene

Concen: 5.050 ug/l

RT: 5.63 min Scan# 745

Delta R.T. -0.13 min

Lab File: VX019791.D

Acq: 09 Dec 2020 20:03

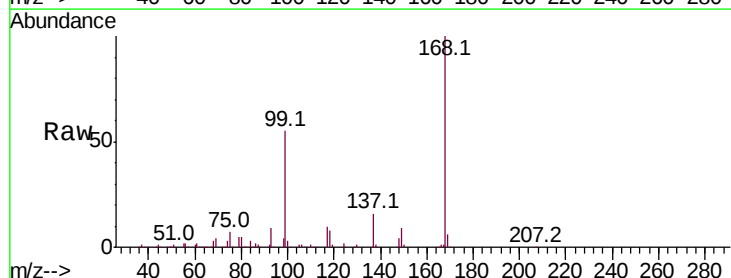
Tgt Ion: 75 Resp: 24687

Ion Ratio Lower Upper

75 100

110 8.5 18.1 54.4#

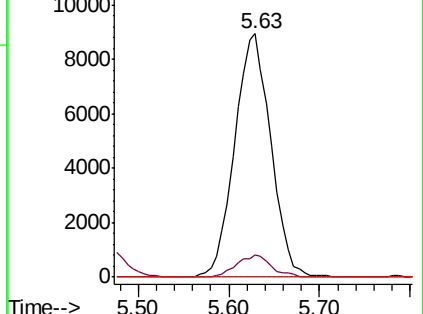
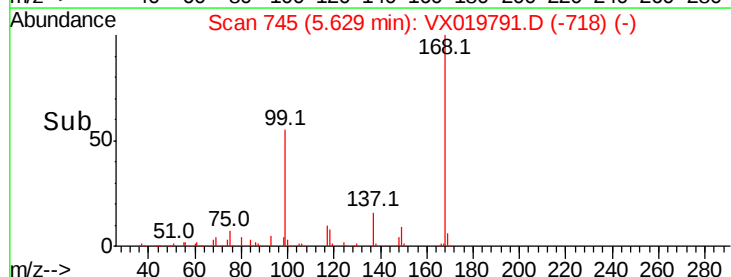
77 0.0 25.3 37.9#

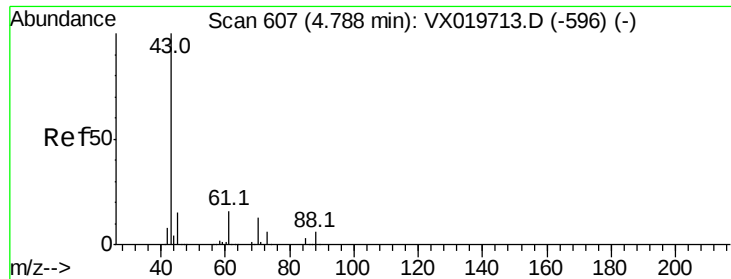


Abundance Ion 74.90 (74.60 to 75.60): VX0

Ion 109.90 (109.60 to 110.60): V

Ion 76.90 (76.60 to 77.60): VX0





#37

Ethyl Acetate

Concen: 1.294 ug/l

RT: 4.64 min Scan# 583

Delta R.T. -0.15 min

Lab File: VX019791.D

Acq: 09 Dec 2020 20:03

Instrument :

MSVOA_X

ClientSampled :

5S2-D-TOP

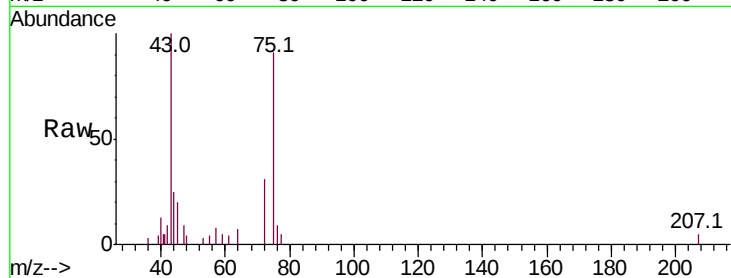
Tot Ion: 43 Resp: 6389

Ion Ratio Lower Upper

43 100

61 0.7 12.8 19.2#

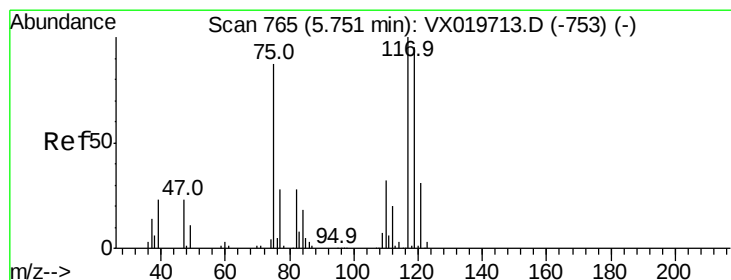
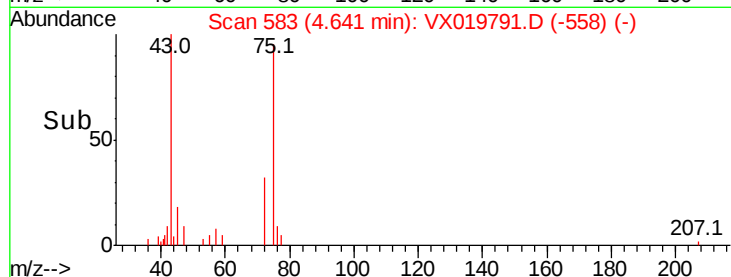
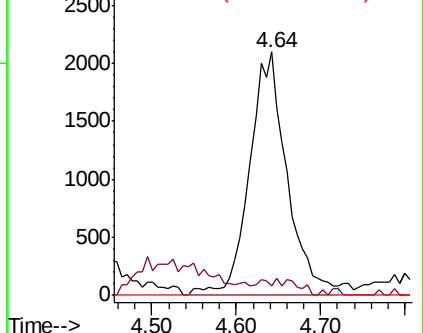
70 0.0 10.5 15.7#



Abundance Ion 43.00 (42.70 to 43.70): VX0

Ion 60.90 (60.60 to 61.60): VX0

Ion 70.00 (69.70 to 70.70): VX0



#38

Carbon Tetrachloride

Concen: 6.651 ug/l

RT: 5.63 min Scan# 745

Delta R.T. -0.12 min

Lab File: VX019791.D

Acq: 09 Dec 2020 20:03

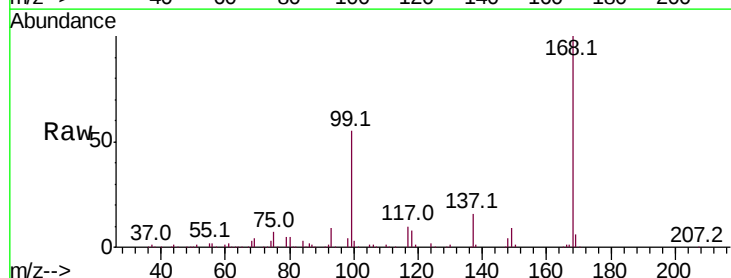
Tgt Ion: 117 Resp: 31843

Ion Ratio Lower Upper

117 100

119 6.1 76.2 114.2#

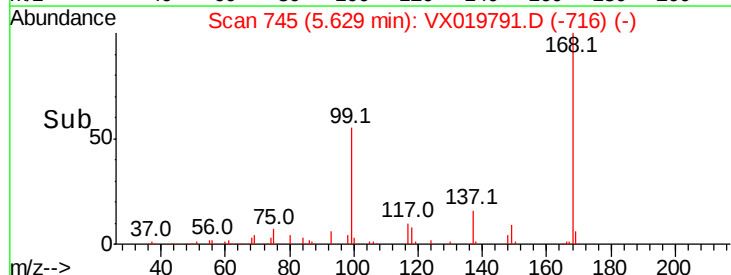
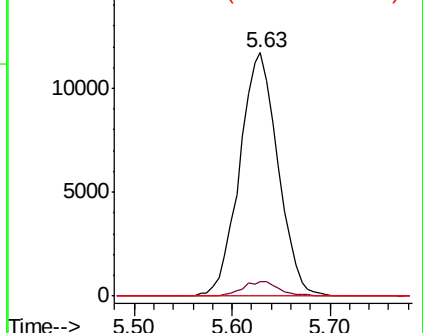
121 0.0 24.8 37.2#

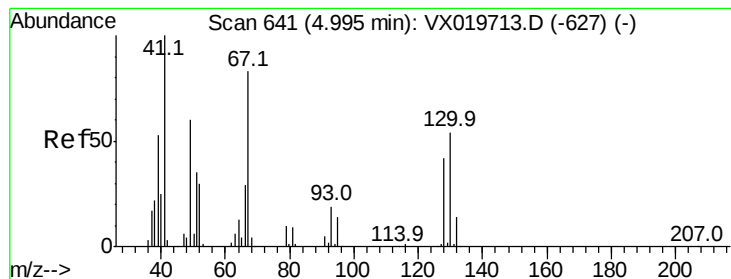


Abundance Ion 116.80 (116.50 to 117.50): V

Ion 118.80 (118.50 to 119.50): V

Ion 120.80 (120.50 to 121.50): V





#41

Methacrylonitrile

Concen: 0.679 ug/l

RT: 5.10 min Scan# 658

Delta R.T. 0.10 min

Lab File: VX019791.D

Acq: 09 Dec 2020 20:03

Instrument :

MSVOA_X

ClientSampled :

5S2-D-TOP

Tot Ion: 41 Resp: 1841

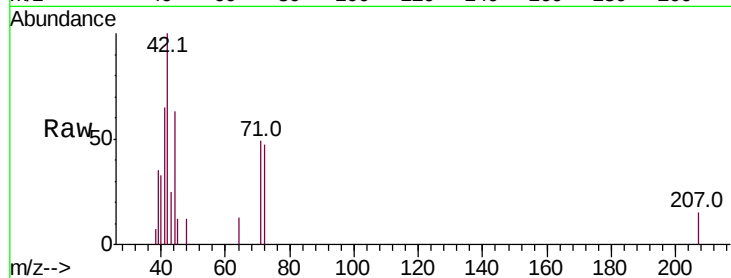
Ion Ratio Lower Upper

41 100

39 44.6 42.5 63.7

67 0.0 65.0 97.6#

52 0.0 25.3 37.9#

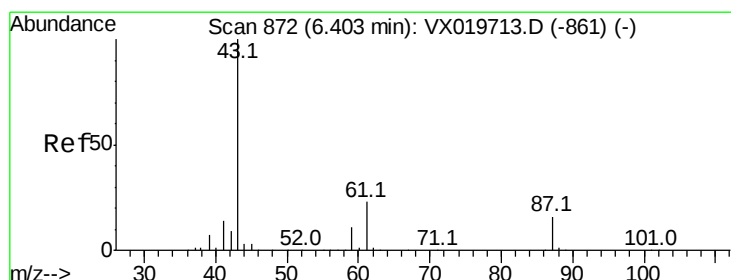
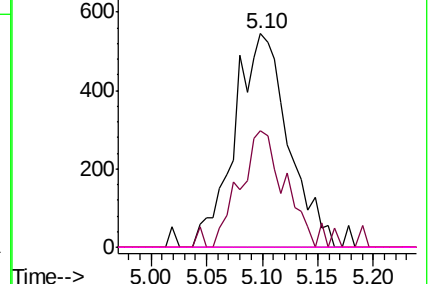
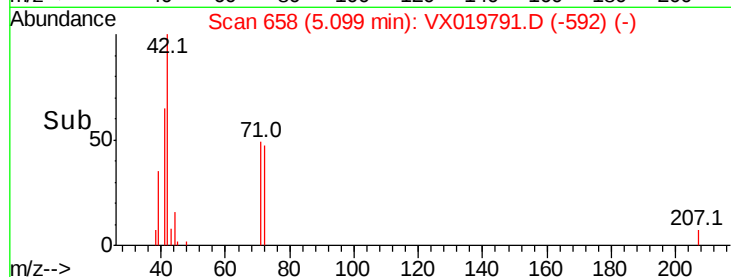


Abundance Ion 41.00 (40.70 to 41.70): VX0

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: 3.355 ug/l

RT: 6.41 min Scan# 873

Delta R.T. 0.01 min

Lab File: VX019791.D

Acq: 09 Dec 2020 20:03

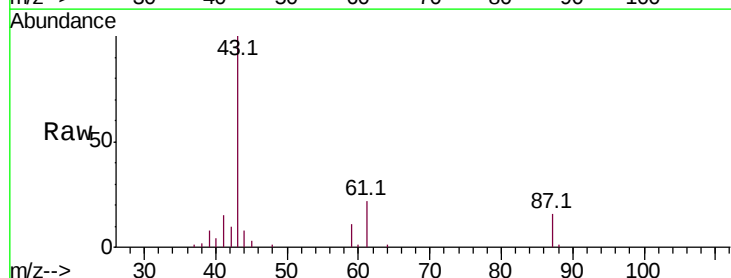
Tgt Ion: 43 Resp: 26925

Ion Ratio Lower Upper

43 100

61 22.5 18.2 27.4

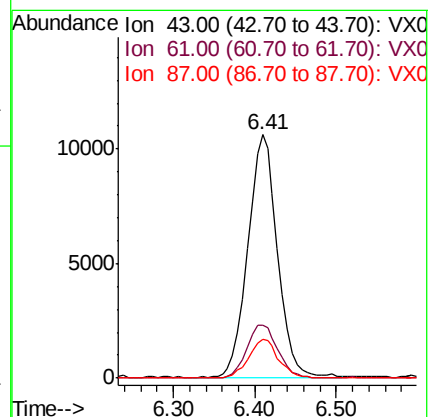
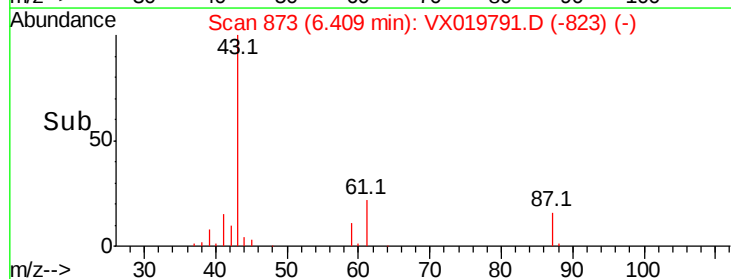
87 15.9 12.5 18.7

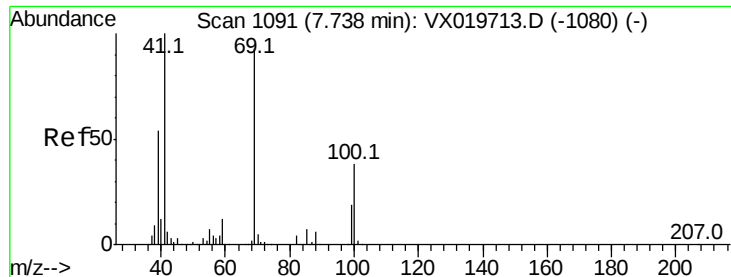


Abundance Ion 43.00 (42.70 to 43.70): VX0

Ion 61.00 (60.70 to 61.70): VX0

Ion 87.00 (86.70 to 87.70): VX0





#48

Methyl methacrylate

Concen: 35.359 ug/l

RT: 7.85 min Scan# 1109

Delta R.T. 0.11 min

Lab File: VX019791.D

Acq: 09 Dec 2020 20:03

Instrument :

MSVOA_X

ClientSampled :

5S2-D-TOP

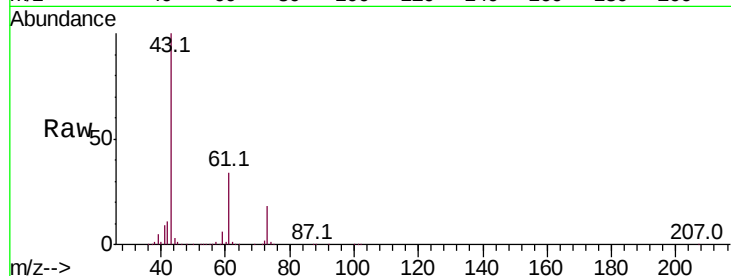
Tot Ion: 41 Resp: 139561

Ion Ratio Lower Upper

41 100

69 0.1 76.0 114.0#

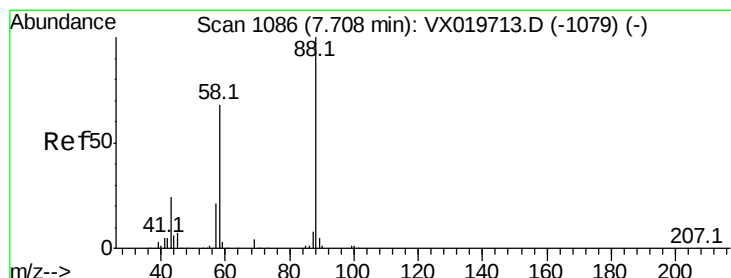
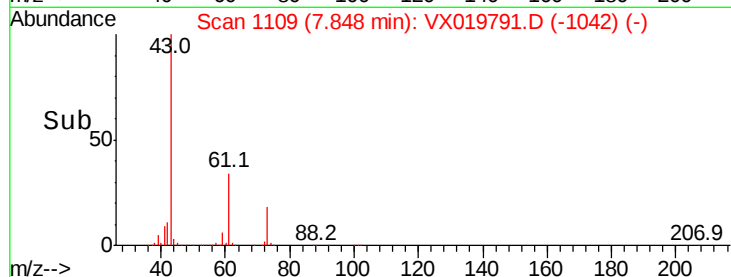
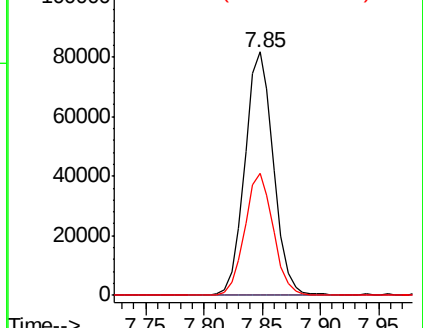
39 50.2 44.6 67.0



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: 3.085 ug/l

RT: 7.84 min Scan# 1108

Delta R.T. 0.13 min

Lab File: VX019791.D

Acq: 09 Dec 2020 20:03

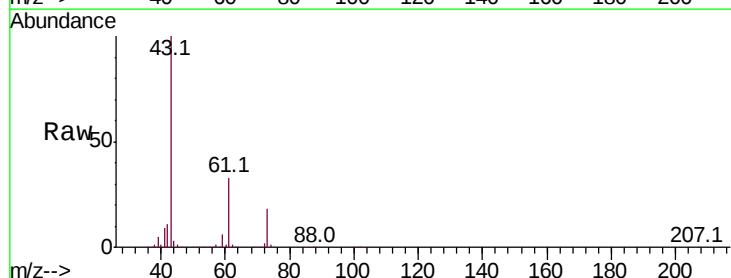
Tgt Ion: 88 Resp: 295

Ion Ratio Lower Upper

88 100

43 501705.4 23.2 34.8#

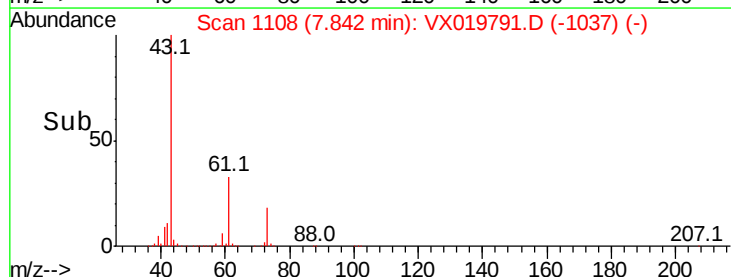
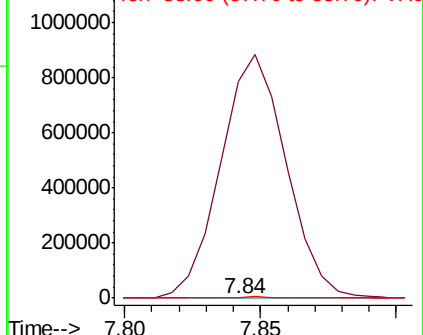
58 2549.2 55.0 82.4#

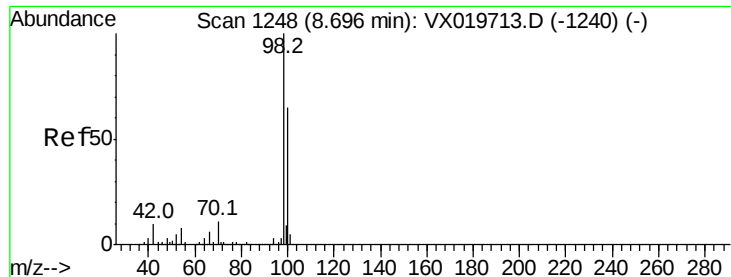


Abundance Ion 88.00 (87.70 to 88.70): VX0

Ion 43.00 (42.70 to 43.70): VX0

Ion 58.00 (57.70 to 58.70): VX0

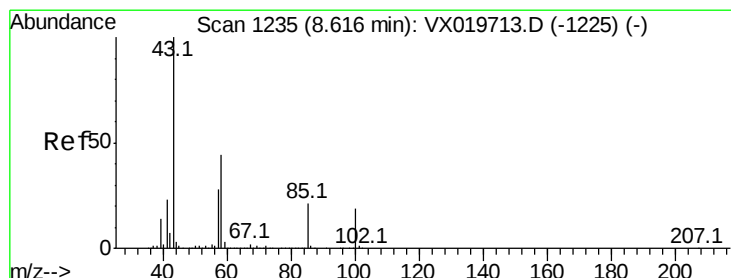
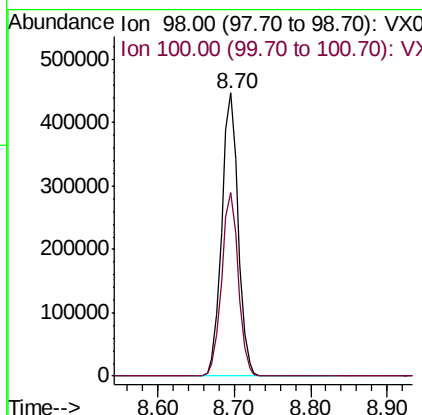
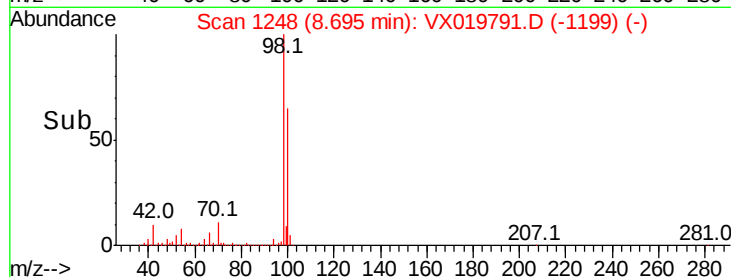
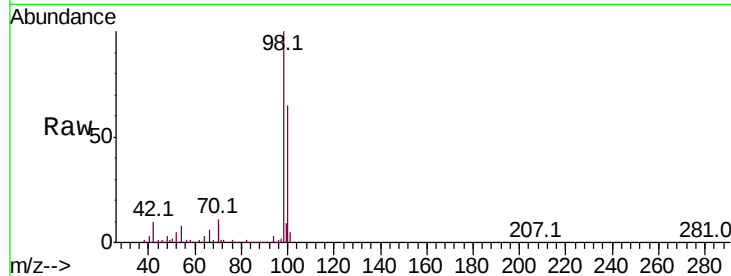




#50
Toluene-d8
Concen: 49.734 ug/l
RT: 8.70 min Scan# 1248
Delta R.T. -0.00 min
Lab File: VX019791.D
Acq: 09 Dec 2020 20:03

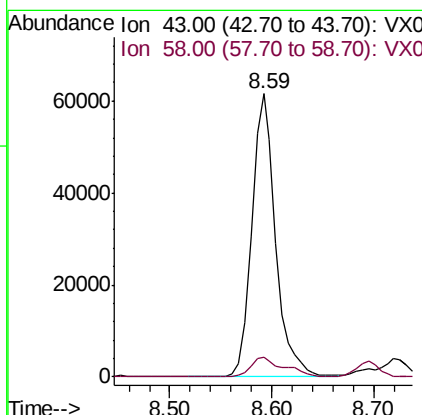
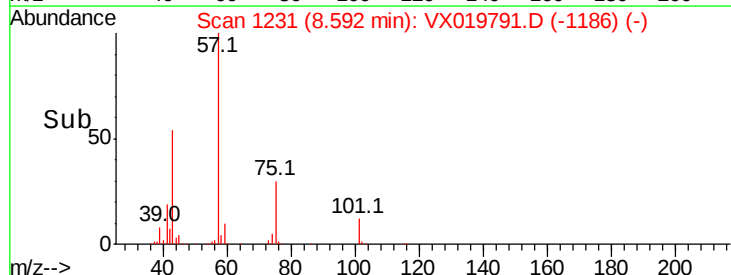
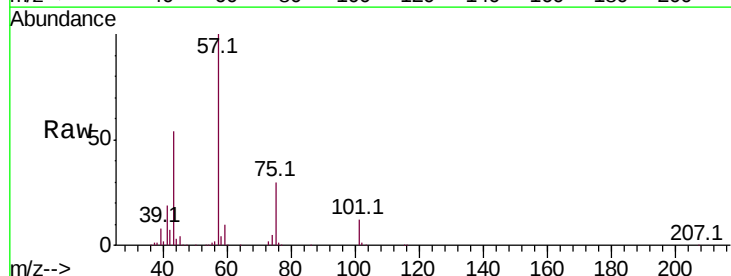
Instrument :
MSVOA_X
ClientSampleId :
5S2-D-TOP

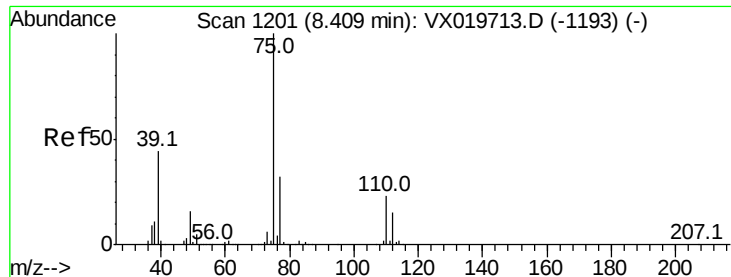
Tot Ion: 98 Resp: 663905
Ion Ratio Lower Upper
98 100
100 65.7 51.9 77.9



#51
4-Methyl-2-Pentanone
Concen: 20.245 ug/l
RT: 8.59 min Scan# 1231
Delta R.T. -0.02 min
Lab File: VX019791.D
Acq: 09 Dec 2020 20:03

Tgt Ion: 43 Resp: 99195
Ion Ratio Lower Upper
43 100
58 9.8 35.4 53.0#





#54

cis-1,3-Dichloropropene

Concen: 8.570 ug/l

RT: 8.59 min Scan# 1231

Delta R.T. 0.18 min

Lab File: VX019791.D

Acq: 09 Dec 2020 20:03

Instrument :

MSVOA_X

ClientSampleId :

5S2-D-TOP

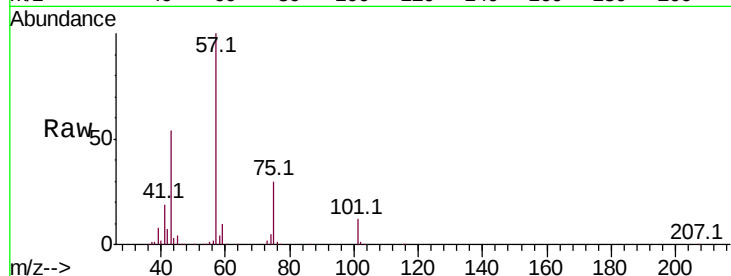
Tot Ion: 75 Resp: 51676

Ion Ratio Lower Upper

75 100

77 0.6 25.7 38.5#

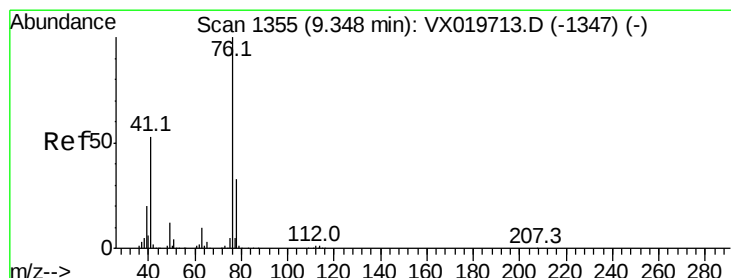
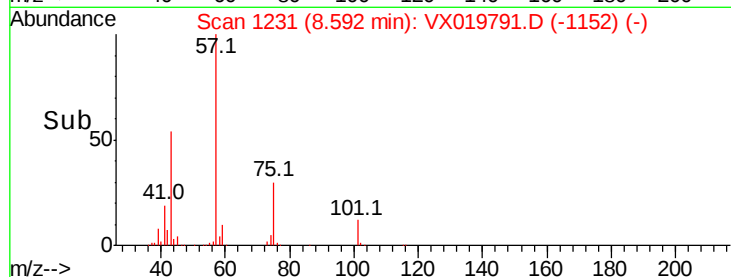
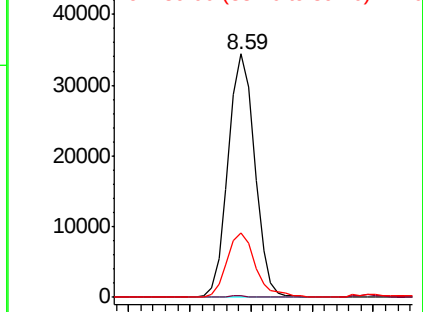
39 26.3 35.1 52.7#



Abundance Ion 74.90 (74.60 to 75.60): VX0

Ion 76.90 (76.60 to 77.60): VX0

Ion 39.00 (38.70 to 39.70): VX0



#57

1,3-Dichloropropene

Concen: 4.676 ug/l

RT: 9.52 min Scan# 1384

Delta R.T. 0.18 min

Lab File: VX019791.D

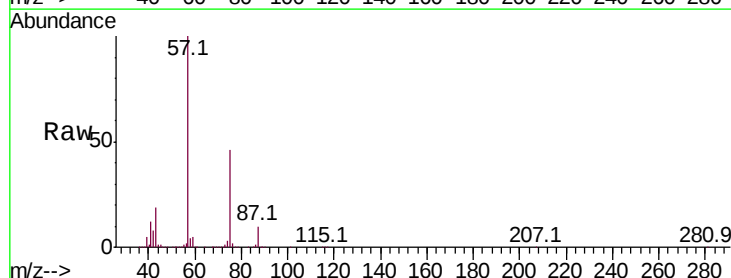
Acq: 09 Dec 2020 20:03

Tgt Ion: 76 Resp: 30053

Ion Ratio Lower Upper

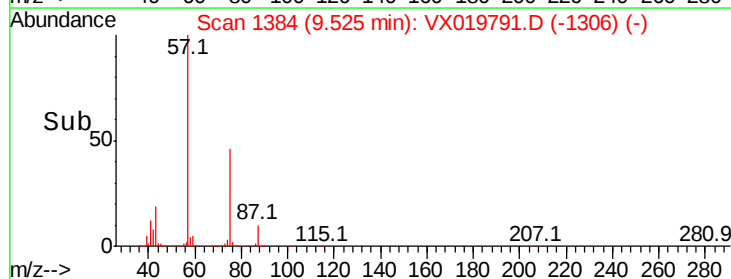
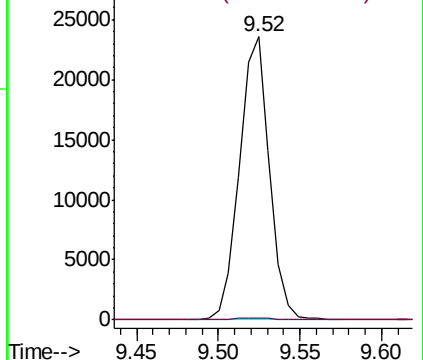
76 100

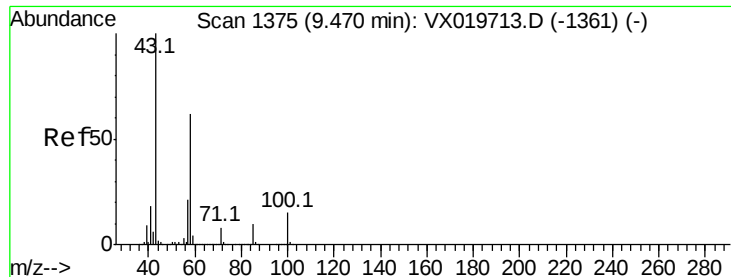
78 0.6 26.2 39.2#



Abundance Ion 75.90 (75.60 to 76.60): VX0

Ion 77.90 (77.60 to 78.60): VX0

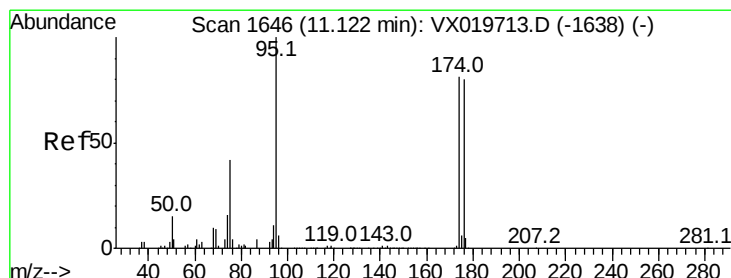
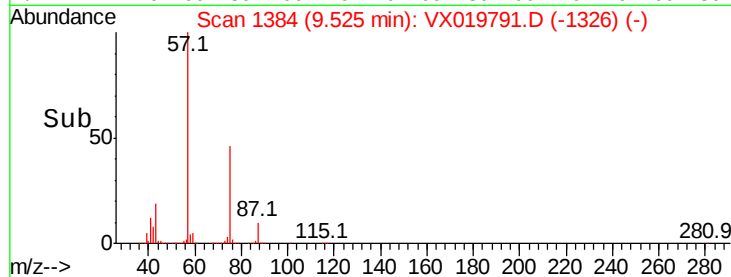
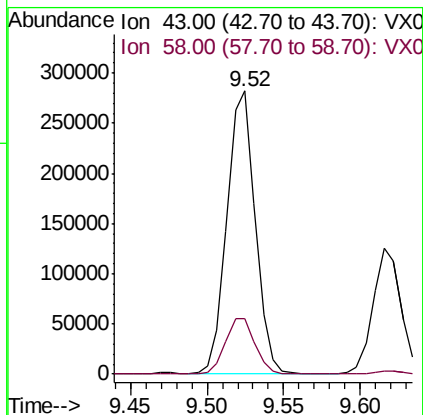
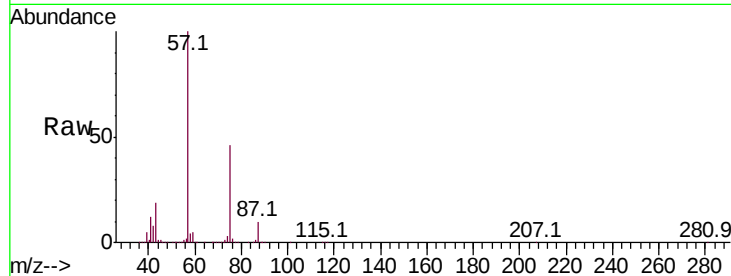




#59
2-Hexanone
Concen: 94.868 ug/l
RT: 9.52 min Scan# 1384
Delta R.T. 0.05 min
Lab File: VX019791.D
Acq: 09 Dec 2020 20:03

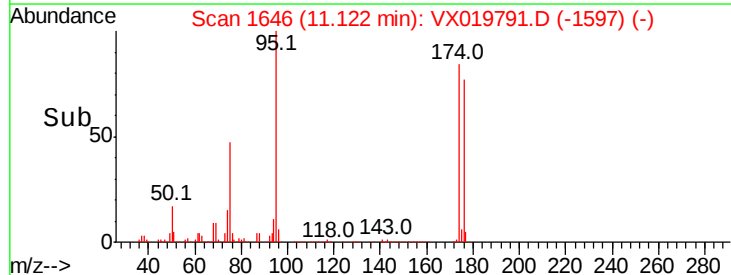
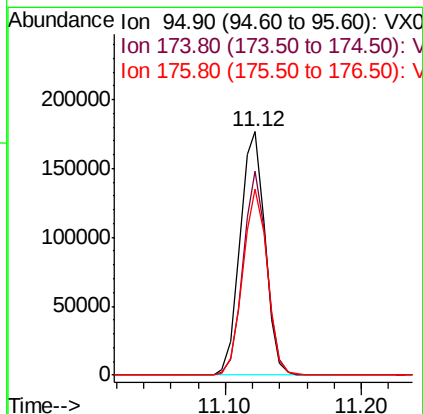
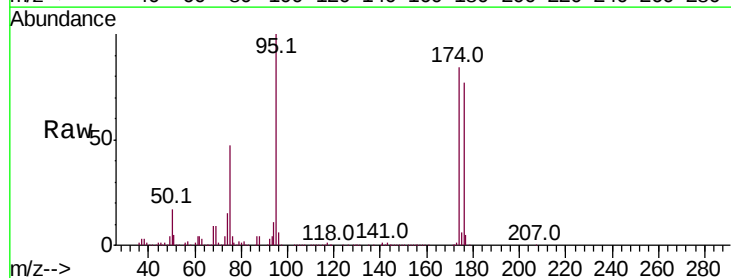
Instrument :
MSVOA_X
ClientSampled :
5S2-D-TOP

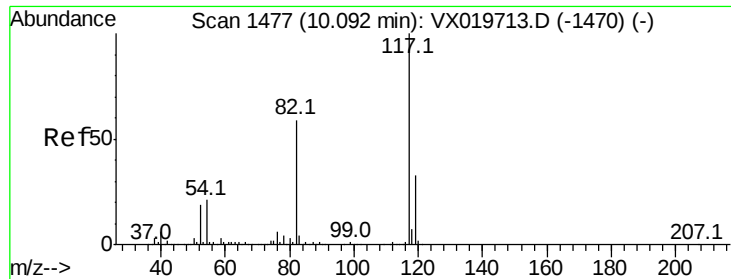
Tot Ion: 43 Resp: 360300
Ion Ratio Lower Upper
43 100
58 20.6 30.9 92.8#



#62
4-Bromofluorobenzene
Concen: 44.278 ug/l
RT: 11.12 min Scan# 1646
Delta R.T. -0.00 min
Lab File: VX019791.D
Acq: 09 Dec 2020 20:03

Tgt Ion: 95 Resp: 224973
Ion Ratio Lower Upper
95 100
174 79.7 0.0 154.6
176 75.8 0.0 155.8

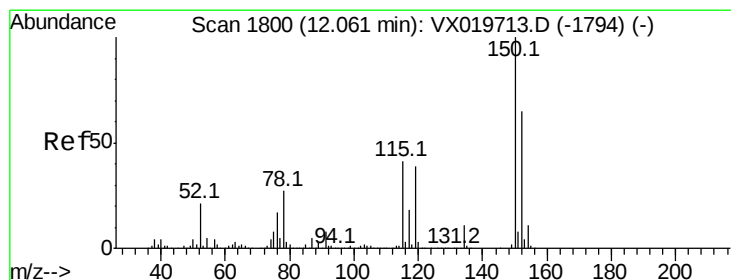
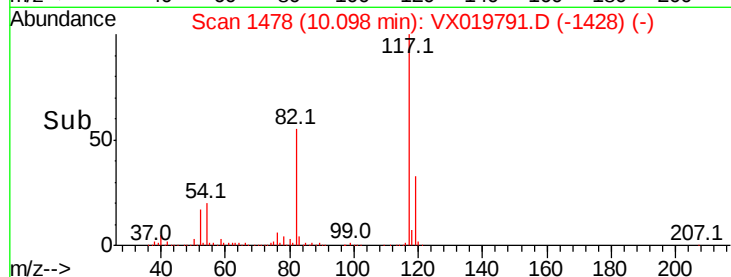
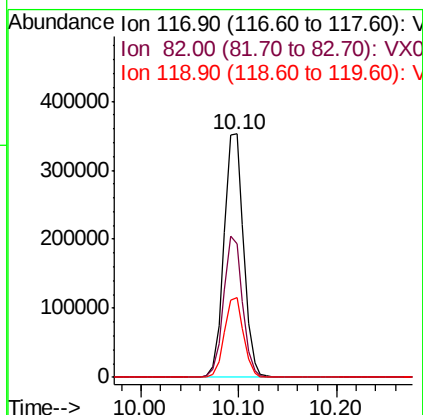
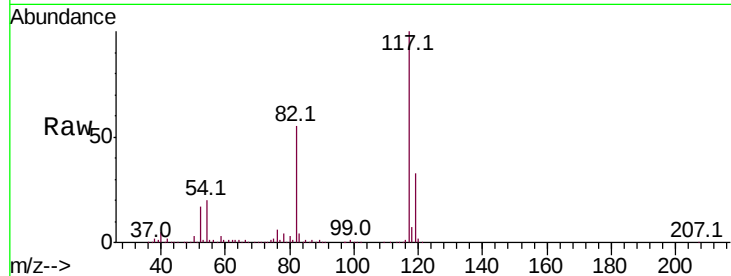




#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 10.10 min Scan# 1478
Delta R.T. 0.01 min
Lab File: VX019791.D
Acq: 09 Dec 2020 20:03

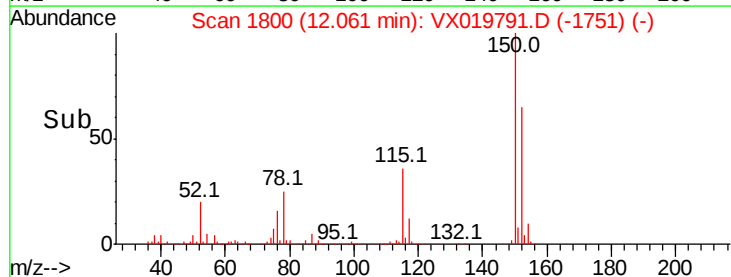
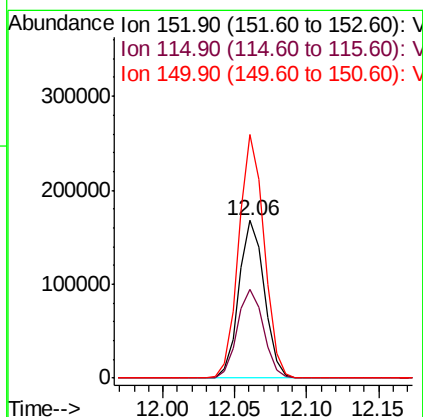
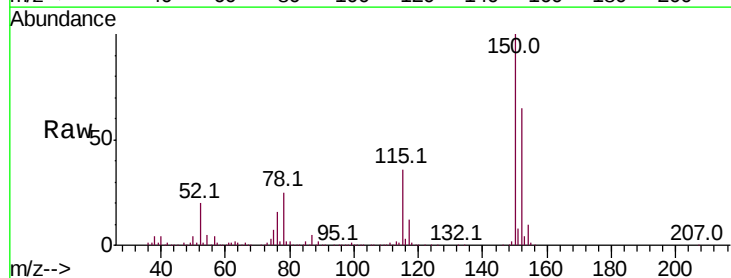
Instrument :
MSVOA_X
ClientSampleId :
5S2-D-TOP

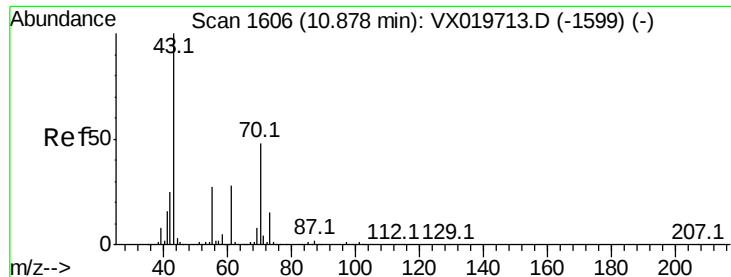
Tot Ion:117 Resp: 489485
Ion Ratio Lower Upper
117 100
82 54.7 47.4 71.2
119 32.8 26.6 39.8



#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 12.06 min Scan# 1800
Delta R.T. -0.00 min
Lab File: VX019791.D
Acq: 09 Dec 2020 20:03

Tgt Ion:152 Resp: 206302
Ion Ratio Lower Upper
152 100
115 58.1 41.1 123.3
150 154.3 0.0 349.0





#74

N-amvl acetate

Concen: 0.207 ug/l

RT: 10.80 min Scan# 1594

Delta R.T. -0.07 min

Lab File: VX019791.D

Acq: 09 Dec 2020 20:03

Instrument :

MSVOA_X

ClientSampleId :

5S2-D-TOP

Tot Ion: 43 Resp: 1167

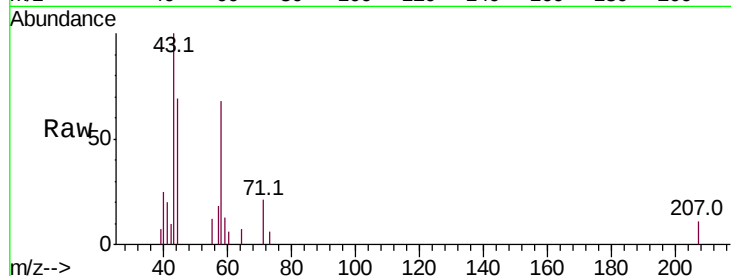
Ion Ratio Lower Upper

43 100

70 0.0 39.0 58.6#

55 13.2 21.5 32.3#

61 0.0 22.1 33.1#

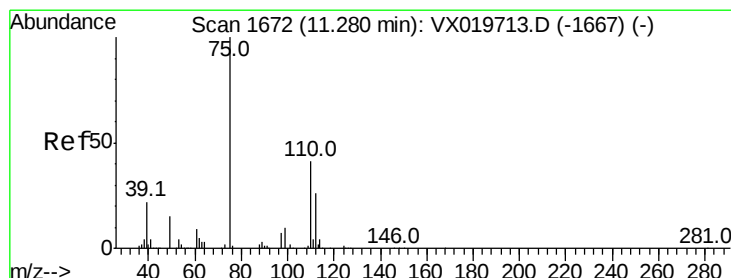
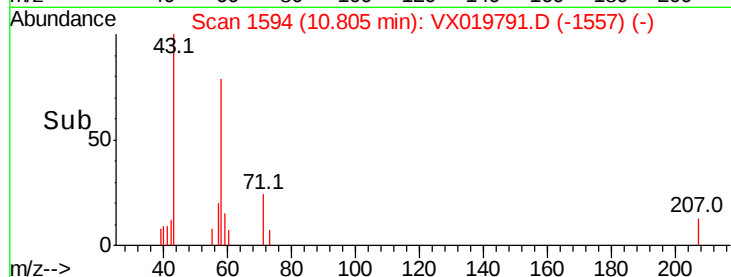
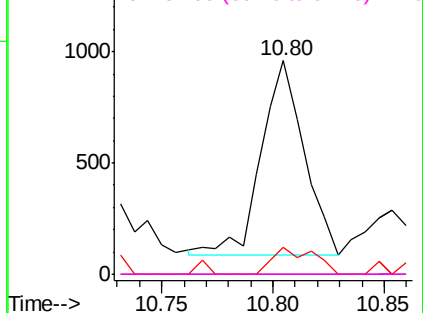


Abundance Ion 43.00 (42.70 to 43.70): VX0

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: 23.026 ug/l

RT: 11.12 min Scan# 1646

Delta R.T. -0.16 min

Lab File: VX019791.D

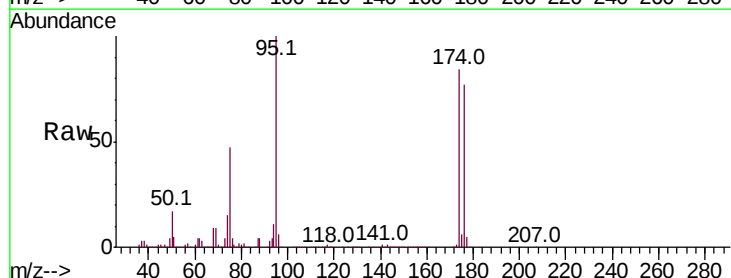
Acq: 09 Dec 2020 20:03

Tgt Ion: 75 Resp: 106541

Ion Ratio Lower Upper

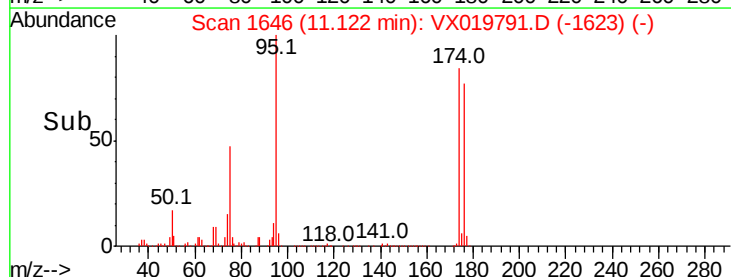
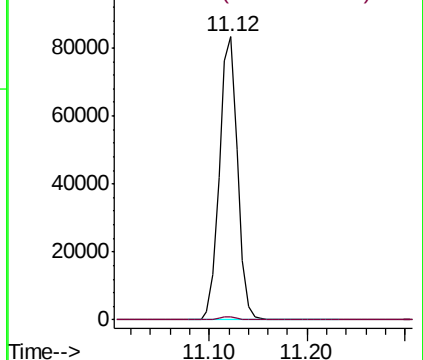
75 100

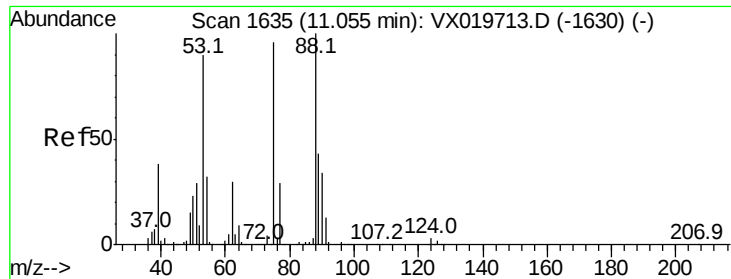
77 1.3 19.1 57.5#



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: 66.564 ug/l
 RT: 11.12 min Scan# 1646
 Delta R.T. 0.07 min
 Lab File: VX019791.D
 Acq: 09 Dec 2020 20:03

Instrument :
 MSVOA_X
 ClientSampleId :
 5S2-D-TOP

Tot Ion: 75 Resp: 106541
 Ion Ratio Lower Upper
 75 100
 53 0.1 74.5 111.7#
 89 0.0 37.9 56.9#

