

Data Path : Z:\VOASRV\HPCHEM1\MSVOA X\DATA\VX120920\
 Data File : VX019785.D
 Acq On : 09 Dec 2020 17:44
 Operator : JC/MD
 Sample : L4971-10
 Misc : 5.0mL/MSVOA X/WATER
 ALS Vial : 18 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :
 5S1-D-TOP

Quant Time: Dec 10 05:41:37 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	338938	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	6.83	114	557867	50.00	ug/l	0.00
63) Chlorobenzene-d5	10.10	117	522106	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.06	152	228684	50.00	ug/l	0.00

System Monitoring Compounds

33) 1,2-Dichloroethane-d4	6.03	65	211511	47.48	ug/l	0.00
Spiked Amount	50.000	Range	61 - 141	Recovery	=	94.96%
35) Dibromofluoromethane	5.46	113	172718	47.91	ug/l	0.00
Spiked Amount	50.000	Range	69 - 133	Recovery	=	95.82%
50) Toluene-d8	8.70	98	681749	49.53	ug/l	0.00
Spiked Amount	50.000	Range	65 - 126	Recovery	=	99.06%
62) 4-Bromofluorobenzene	11.12	95	244440	46.66	ug/l	0.00
Spiked Amount	50.000	Range	58 - 135	Recovery	=	93.32%

Target Compounds

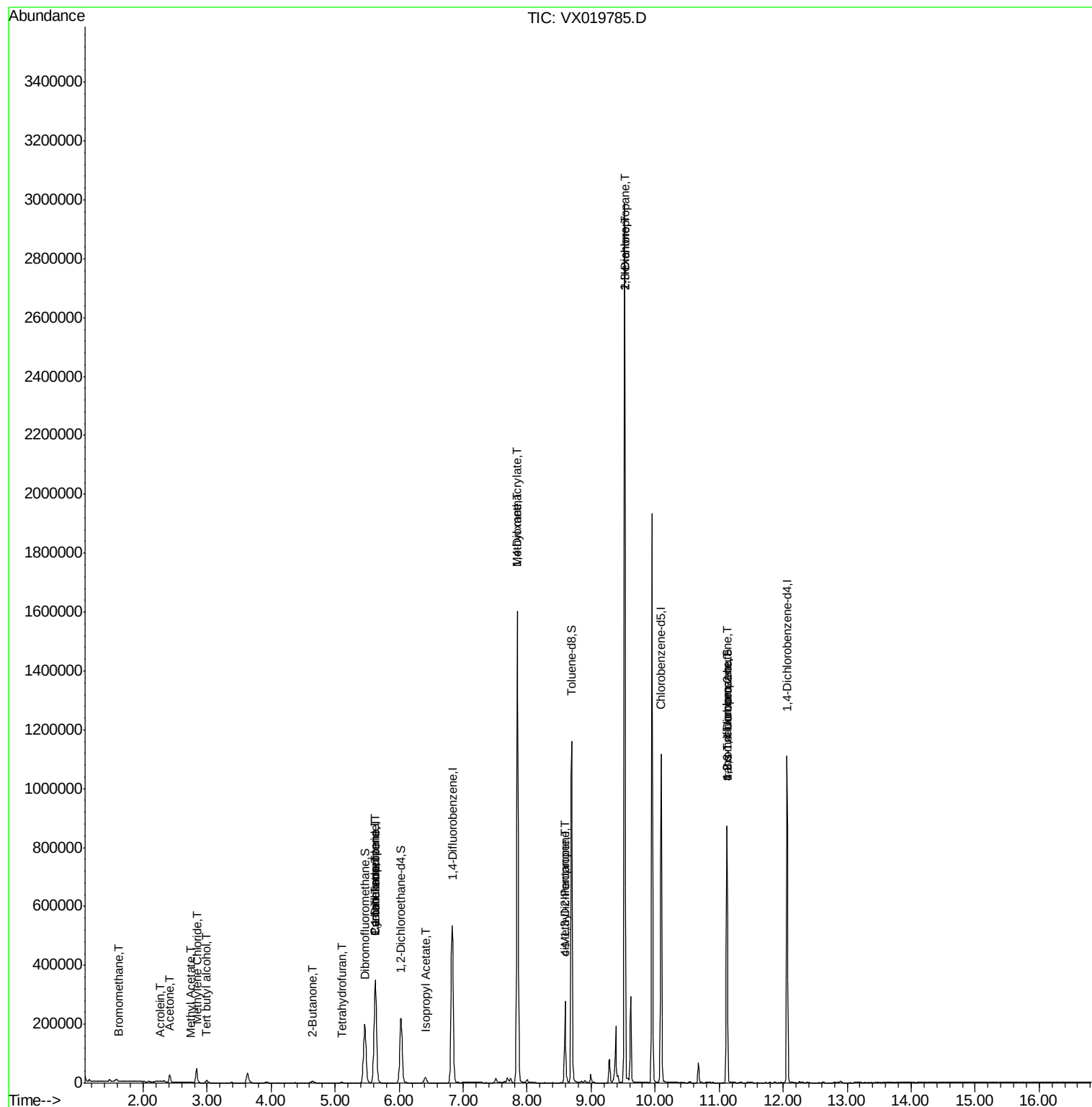
					Qvalue	
5) Bromomethane	1.63	94	681	0.533	ug/l #	80
11) Tert butyl alcohol	2.99	59	5268	3.172	ug/l #	78
13) Acrolein	2.27	56	383	0.779	ug/l #	75
16) Acetone	2.42	43	26731	15.965	ug/l	99
18) Methyl Acetate	2.75	43	1849	0.451	ug/l #	87
20) Methylene Chloride	2.83	84	22424	4.574	ug/l	97
25) 2-Butanone	4.64	43	4208	1.636	ug/l	89
29) Tetrahydrofuran	5.10	42	1228	0.741	ug/l #	80
31) Cyclohexane	5.62	56	6715	1.212	ug/l #	1
36) 1,1-Dichloropropene	5.63	75	25073	4.974	ug/l #	49
38) Carbon Tetrachloride	5.63	117	32532	6.590	ug/l #	16
43) Isopropyl Acetate	6.41	43	25001	3.021	ug/l	99
48) Methyl methacrylate	7.85	41	127983	31.447	ug/l #	36
49) 1,4-Dioxane	7.85	88	312	3.165	ug/l #	1
51) 4-Methyl-2-Pentanone	8.59	43	86644	17.150	ug/l #	47
54) cis-1,3-Dichloropropene	8.59	75	45437	7.308	ug/l #	59
57) 1,3-Dichloropropane	9.52	76	26837	4.050	ug/l #	43
59) 2-Hexanone	9.52	43	326305	83.324	ug/l #	46
76) 1,2,3-Trichloropropane	11.12	75	117896	22.986	ug/l #	39
81) trans-1,4-Dichloro-2-buten	11.12	75	117896	66.449	ug/l #	12

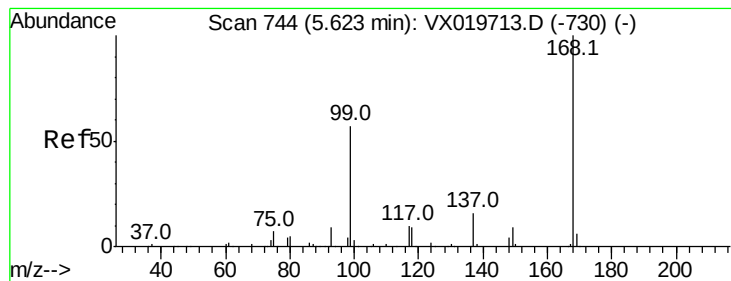
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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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: VX019785.D

Acq: 09 Dec 2020 17:44

Instrument :

MSVOA_X

ClientSampleId :

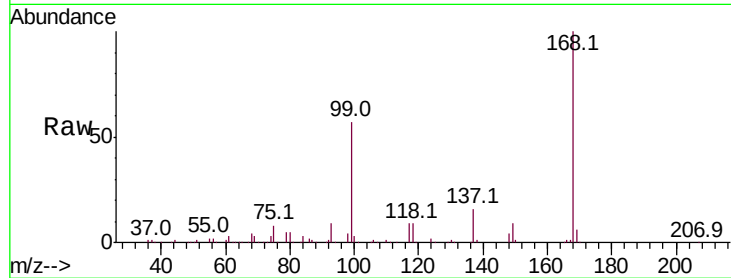
5S1-D-TOP

Tot Ion:168 Resp: 338938

Ion Ratio Lower Upper

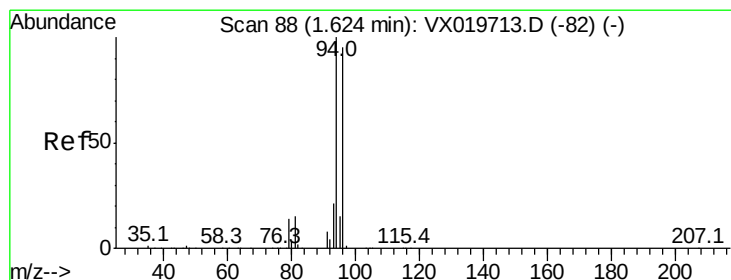
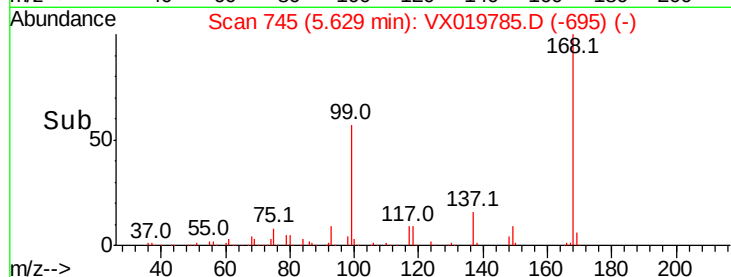
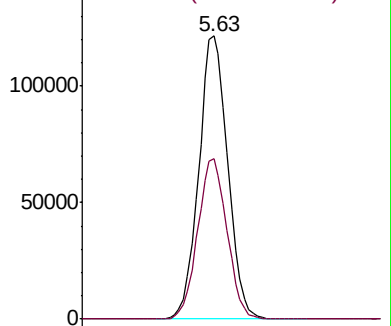
168 100

99 56.6 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: 0.533 ug/l

RT: 1.63 min Scan# 89

Delta R.T. 0.01 min

Lab File: VX019785.D

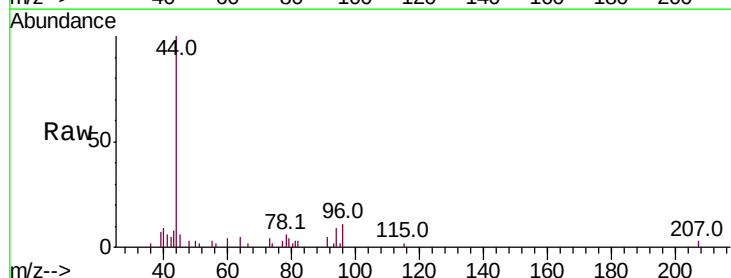
Acq: 09 Dec 2020 17:44

Tgt Ion: 94 Resp: 681

Ion Ratio Lower Upper

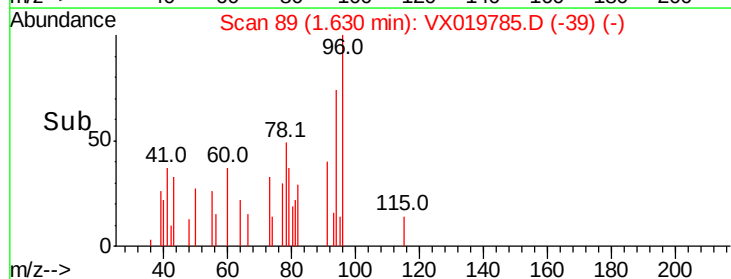
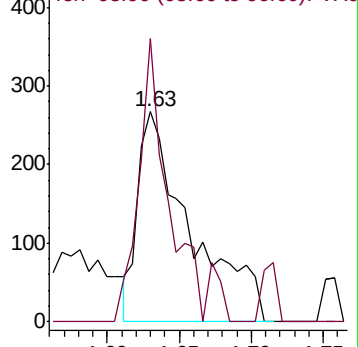
94 100

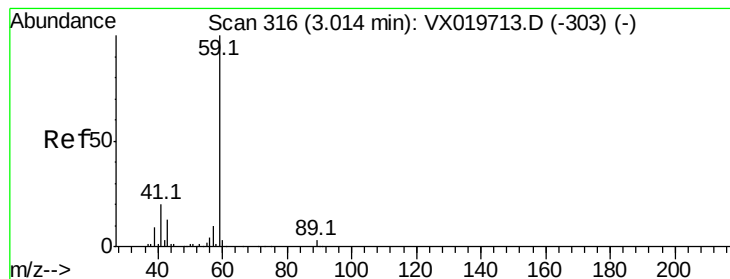
96 115.0 76.4 114.6#



Abundance Ion 93.90 (93.60 to 94.60): VX0

Ion 95.90 (95.60 to 96.60): VX0



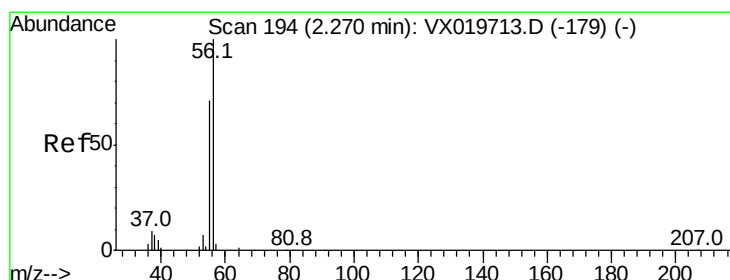
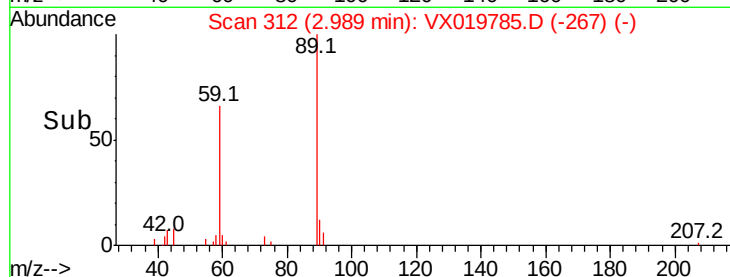
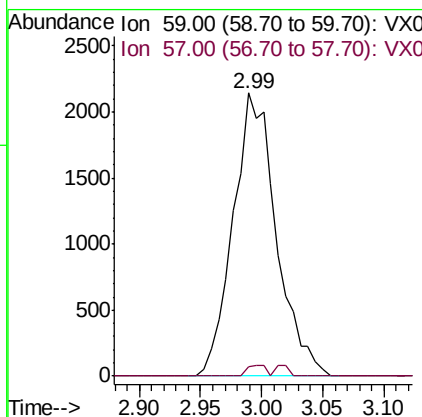
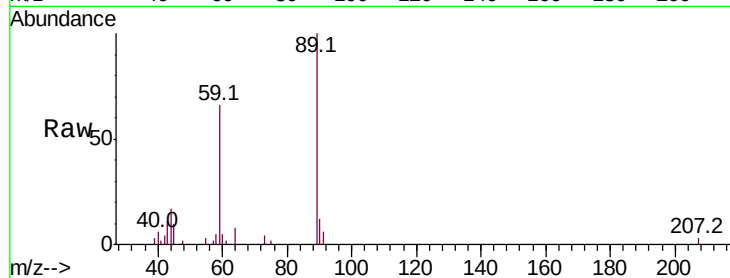


#11

Tert butyl alcohol
 Concen: 3.172 ug/l
 RT: 2.99 min Scan# 312
 Delta R.T. -0.02 min
 Lab File: VX019785.D
 Acq: 09 Dec 2020 17:44

Instrument :
 MSVOA_X
 ClientSampleId :
 5S1-D-TOP

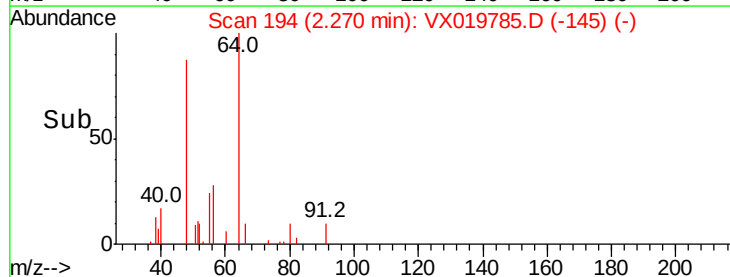
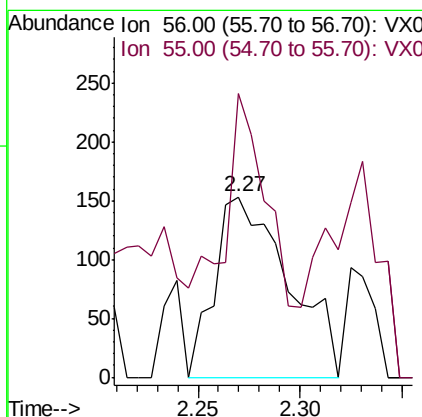
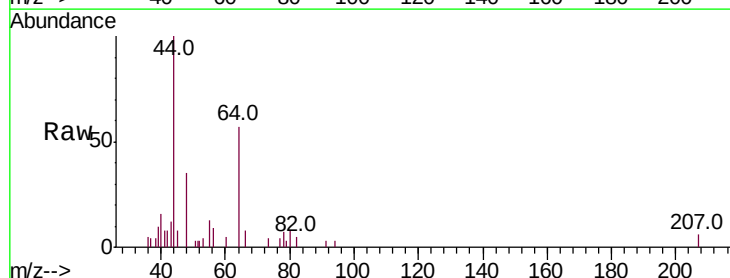
Tot Ion: 59 Resp: 5268
 Ion Ratio Lower Upper
 59 100
 57 1.7 7.8 11.8#

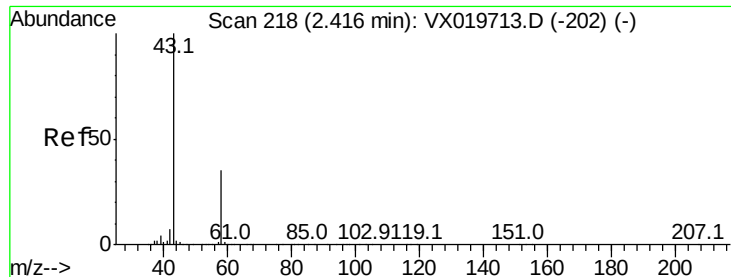


#13

Acrolein
 Concen: 0.779 ug/l
 RT: 2.27 min Scan# 194
 Delta R.T. -0.00 min
 Lab File: VX019785.D
 Acq: 09 Dec 2020 17:44

Tgt Ion: 56 Resp: 383
 Ion Ratio Lower Upper
 56 100
 55 90.9 56.4 84.6#





#16

Acetone

Concen: 15.965 ug/l

RT: 2.42 min Scan# 218

Delta R.T. -0.00 min

Lab File: VX019785.D

Acq: 09 Dec 2020 17:44

Instrument :

MSVOA_X

ClientSampled :

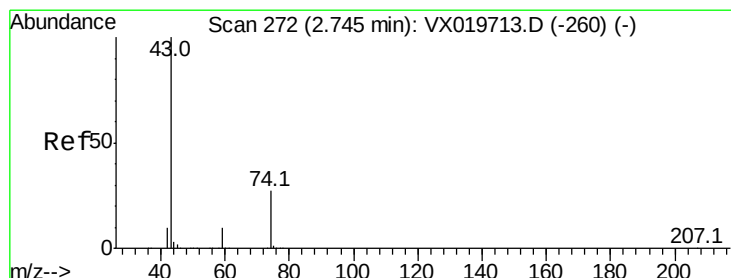
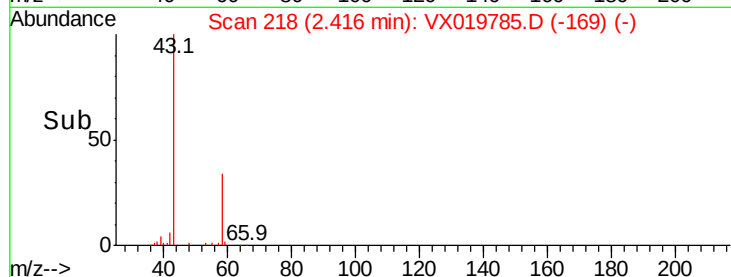
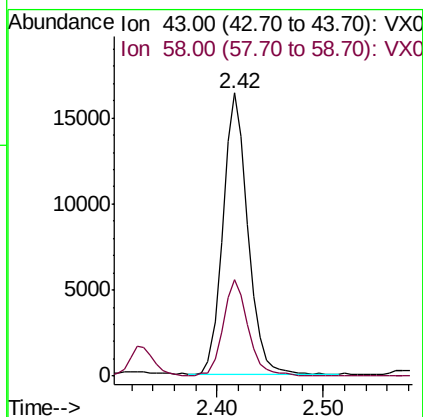
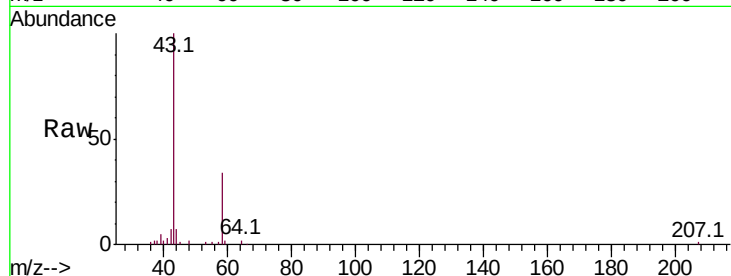
5S1-D-TOP

Tot Ion: 43 Resp: 26731

Ion Ratio Lower Upper

43 100

58 34.1 27.8 41.8



#18

Methyl Acetate

Concen: 0.451 ug/l

RT: 2.75 min Scan# 272

Delta R.T. -0.00 min

Lab File: VX019785.D

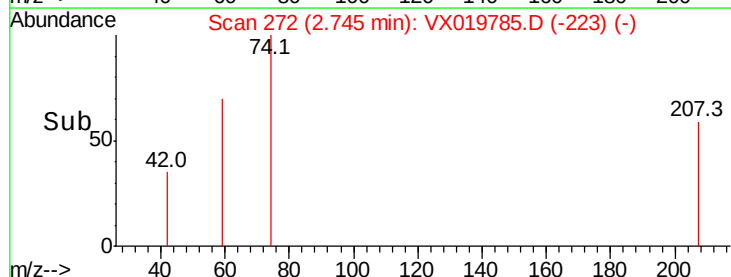
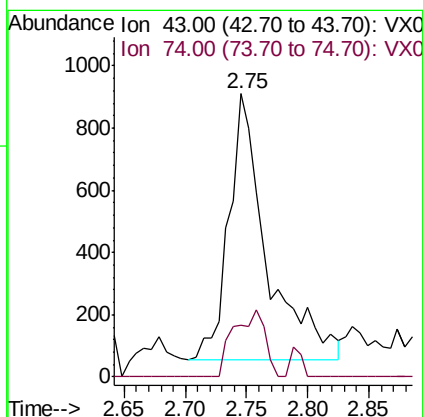
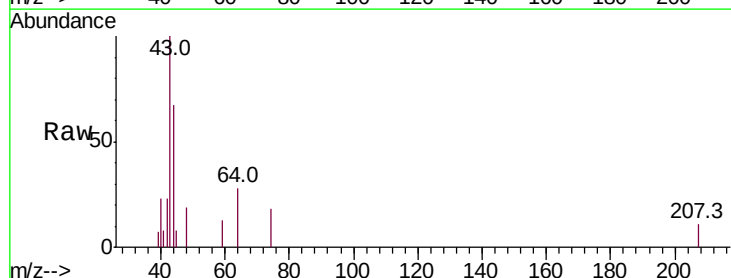
Acq: 09 Dec 2020 17:44

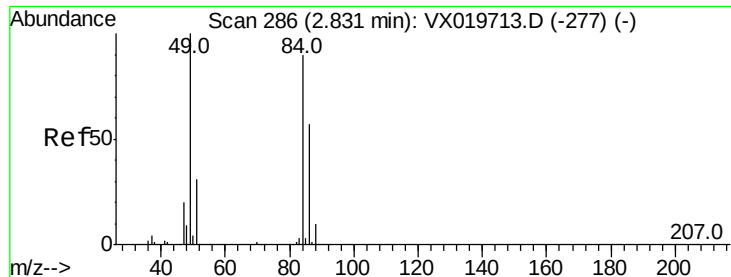
Tgt Ion: 43 Resp: 1849

Ion Ratio Lower Upper

43 100

74 20.7 21.9 32.9#

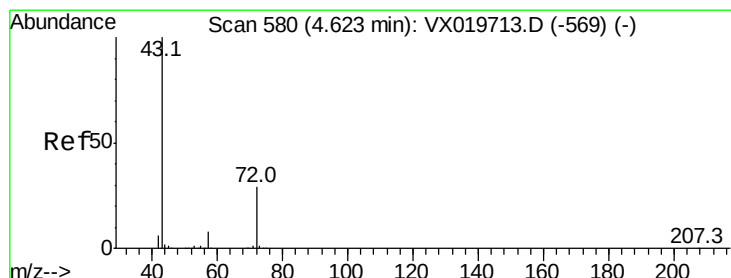
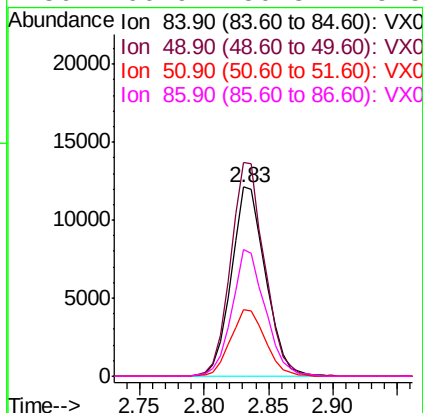
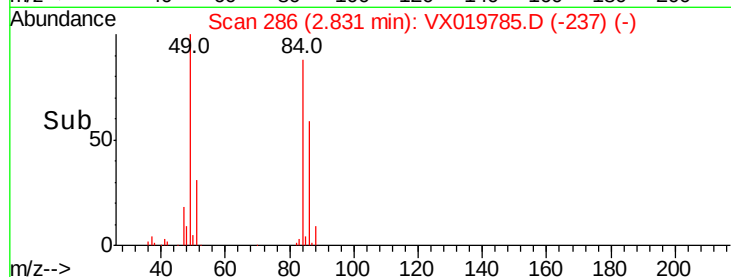
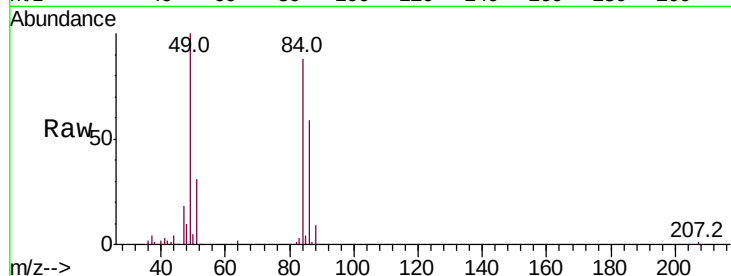




#20
Methvlene Chloride
Concen: 4.574 ug/l
RT: 2.83 min Scan# 286
Delta R.T. 0.00 min
Lab File: VX019785.D
Acq: 09 Dec 2020 17:44

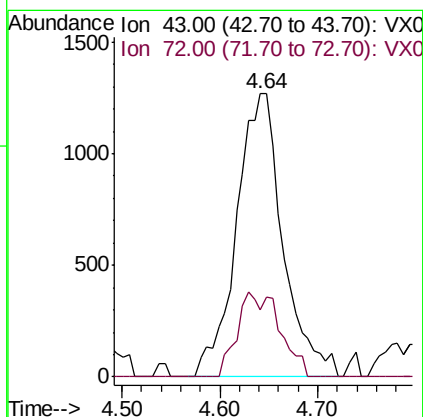
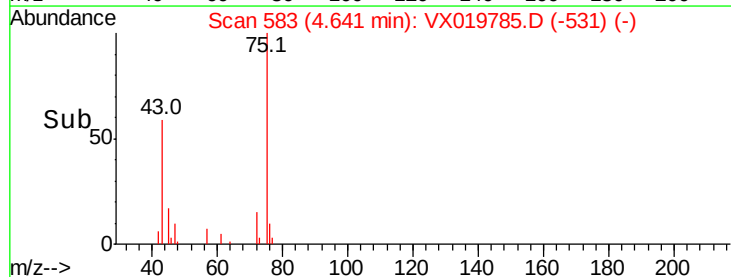
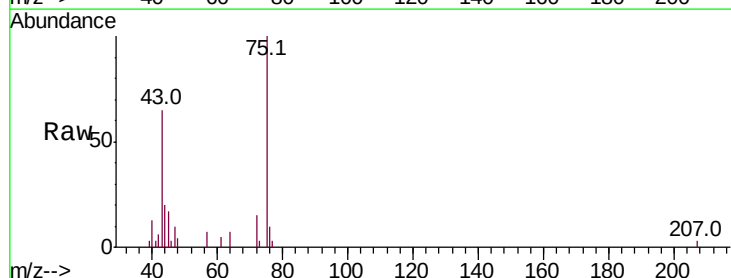
Instrument :
MSVOA_X
ClientSampleId :
5S1-D-TOP

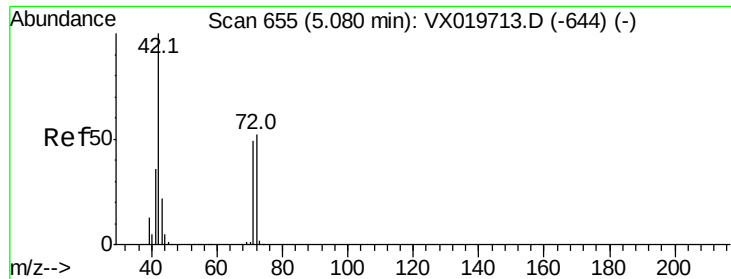
Tot Ion: 84 Resp: 22424
Ion Ratio Lower Upper
84 100
49 113.0 88.6 132.8
51 35.0 27.0 40.6
86 66.9 50.3 75.5



#25
2-Butanone
Concen: 1.636 ug/l
RT: 4.64 min Scan# 583
Delta R.T. 0.02 min
Lab File: VX019785.D
Acq: 09 Dec 2020 17:44

Tgt Ion: 43 Resp: 4208
Ion Ratio Lower Upper
43 100
72 23.7 23.7 35.5

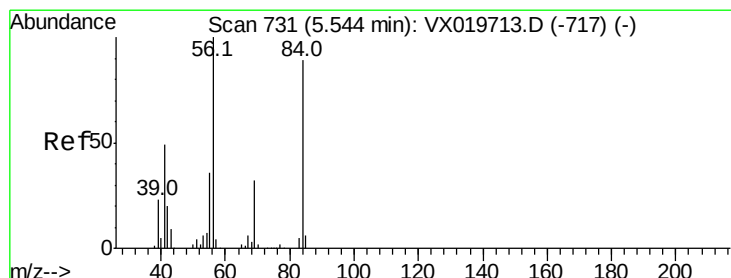
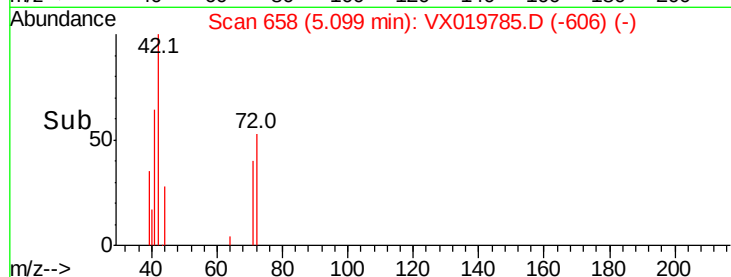
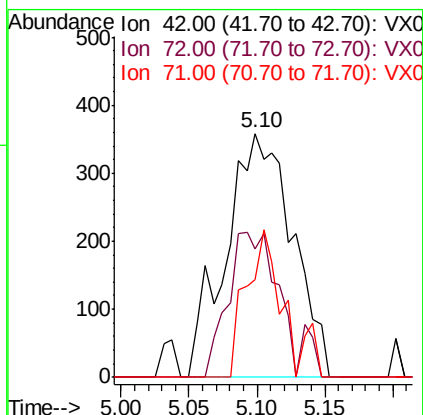
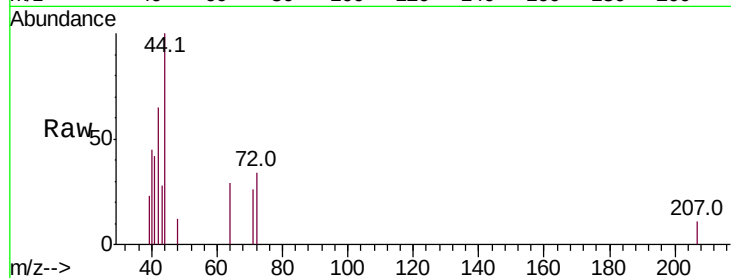




#29
Tetrahydrofuran
Concen: 0.741 ug/l
RT: 5.10 min Scan# 658
Delta R.T. 0.02 min
Lab File: VX019785.D
Acq: 09 Dec 2020 17:44

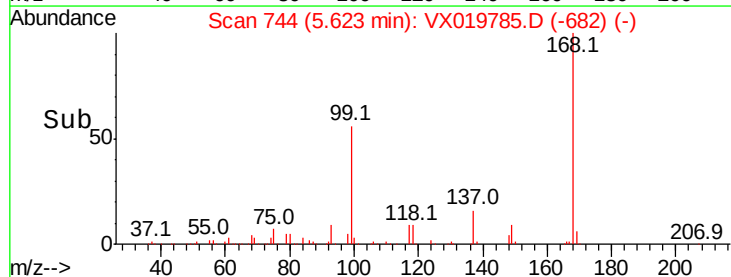
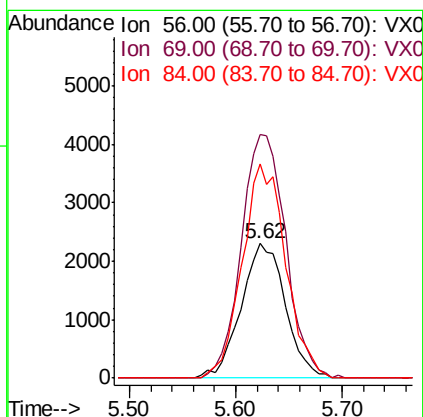
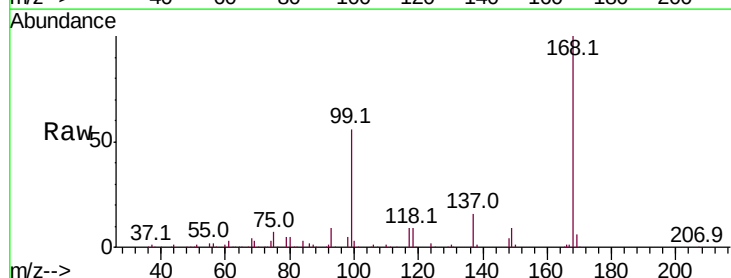
Instrument :
MSVOA_X
ClientSampled :
5S1-D-TOP

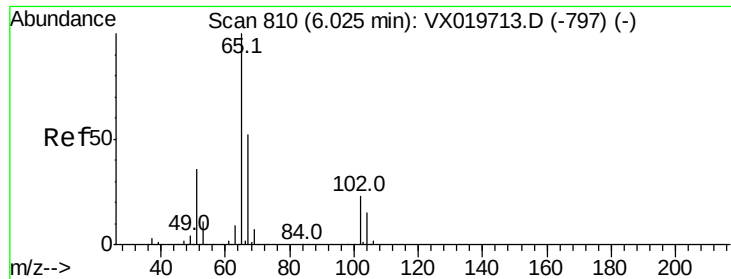
Tot Ion: 42 Resp: 1228
Ion Ratio Lower Upper
42 100
72 43.2 41.7 62.5
71 29.8 38.4 57.6#



#31
Cyclohexane
Concen: 1.212 ug/l
RT: 5.62 min Scan# 744
Delta R.T. 0.08 min
Lab File: VX019785.D
Acq: 09 Dec 2020 17:44

Tgt Ion: 56 Resp: 6715
Ion Ratio Lower Upper
56 100
69 180.8 25.3 37.9#
84 158.8 71.4 107.0#

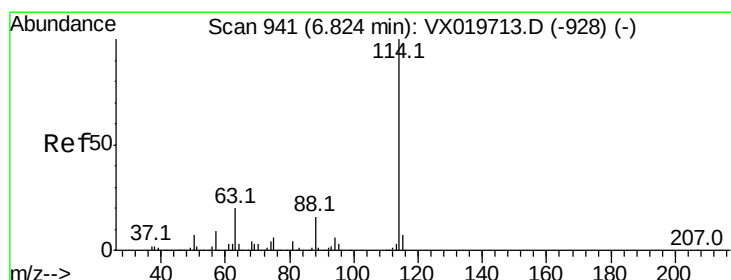
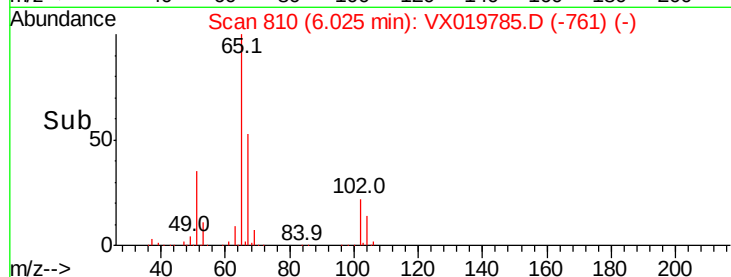
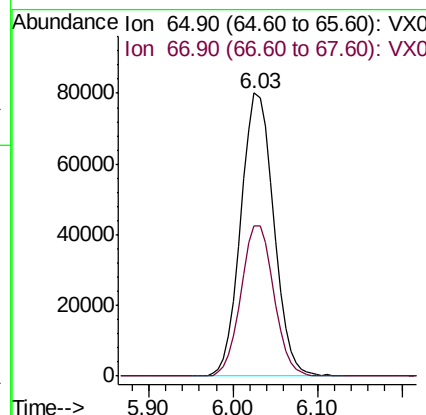
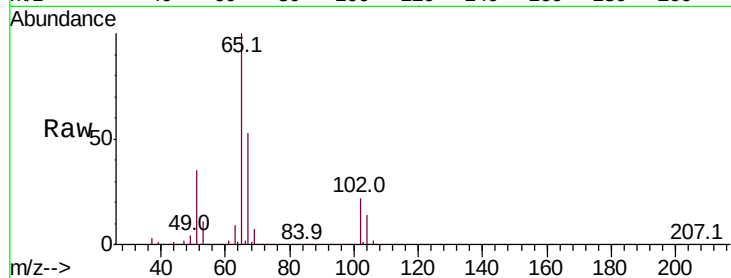




#33
 1,2-Dichloroethane-d4
 Concen: 47.481 ug/l
 RT: 6.03 min Scan# 810
 Delta R.T. -0.00 min
 Lab File: VX019785.D
 Acq: 09 Dec 2020 17:44

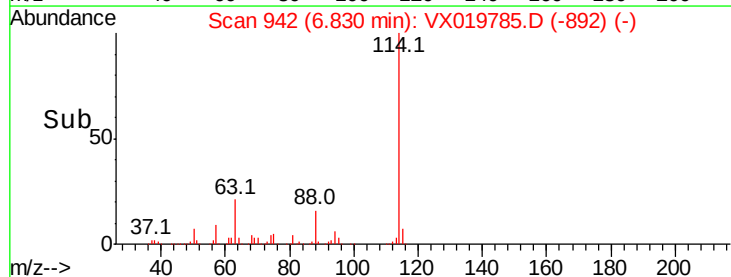
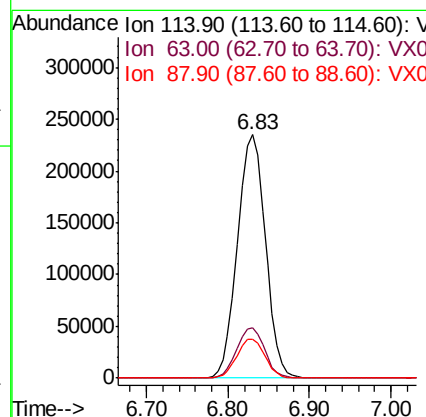
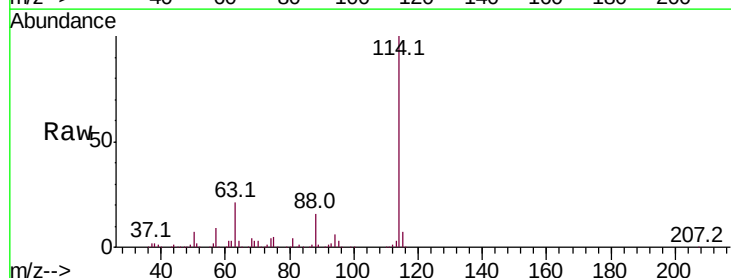
Instrument :
 MSVOA_X
 ClientSampleId :
 5S1-D-TOP

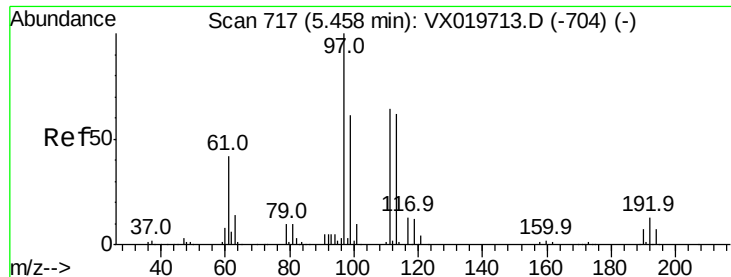
Tot Ion: 65 Resp: 211511
 Ion Ratio Lower Upper
 65 100
 67 53.1 0.0 105.4



#34
 1,4-Difluorobenzene
 Concen: 50.000 ug/l
 RT: 6.83 min Scan# 942
 Delta R.T. 0.01 min
 Lab File: VX019785.D
 Acq: 09 Dec 2020 17:44

Tgt Ion:114 Resp: 557867
 Ion Ratio Lower Upper
 114 100
 63 20.6 0.0 40.8
 88 16.1 0.0 32.8





#35

Dibromofluoromethane

Concen: 47.905 ug/l

RT: 5.46 min Scan# 718

Delta R.T. 0.01 min

Lab File: VX019785.D

Acq: 09 Dec 2020 17:44

Instrument :

MSVOA_X

ClientSampleId :

5S1-D-TOP

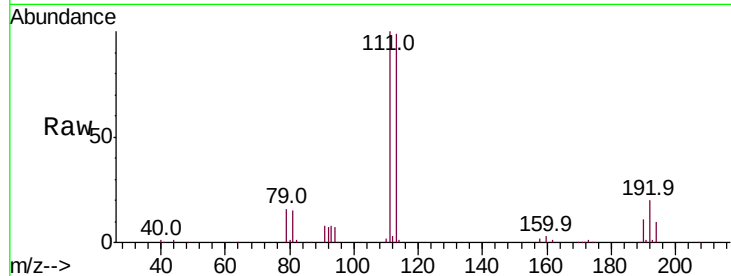
Tot Ion:113 Resp: 172718

Ion Ratio Lower Upper

113 100

111 102.2 81.9 122.9

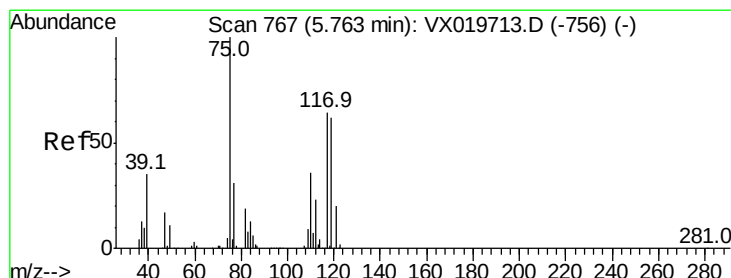
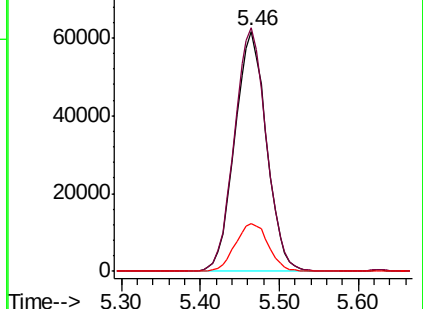
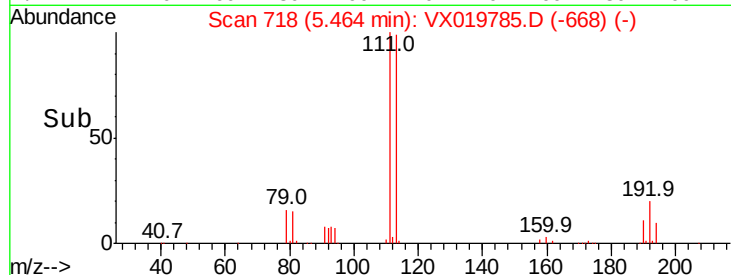
192 20.6 16.7 25.1



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: 4.974 ug/l

RT: 5.63 min Scan# 745

Delta R.T. -0.13 min

Lab File: VX019785.D

Acq: 09 Dec 2020 17:44

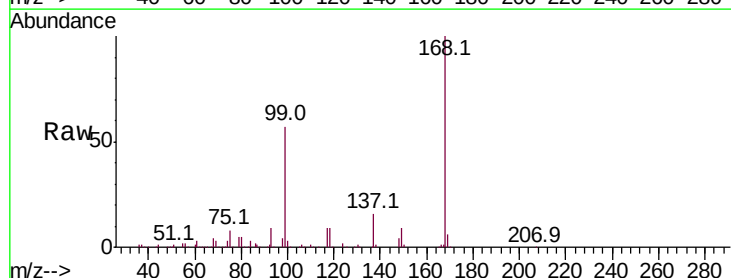
Tgt Ion: 75 Resp: 25073

Ion Ratio Lower Upper

75 100

110 9.4 18.1 54.4#

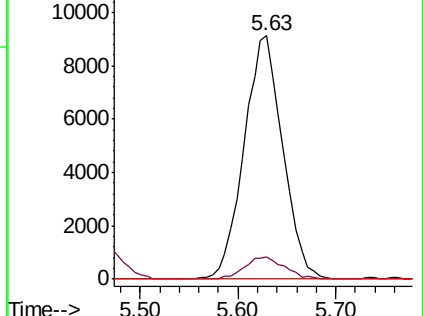
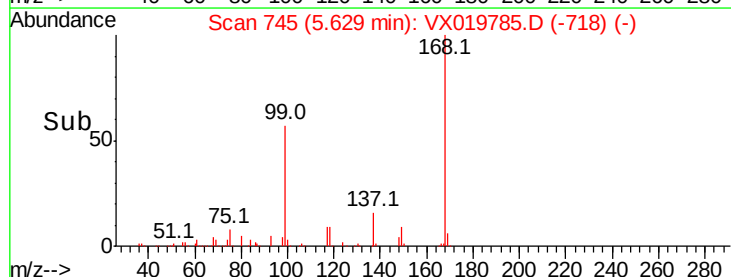
77 0.0 25.3 37.9#

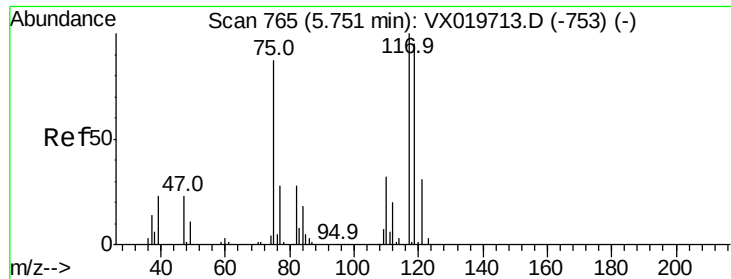


Abundance Ion 74.90 (74.60 to 75.60): VX0

Ion 109.90 (109.60 to 110.60): V

Ion 76.90 (76.60 to 77.60): VX0





#38

Carbon Tetrachloride

Concen: 6.590 ug/l

RT: 5.63 min Scan# 745

Delta R.T. -0.12 min

Lab File: VX019785.D

Acq: 09 Dec 2020 17:44

Instrument :

MSVOA_X

ClientSampled :

5S1-D-TOP

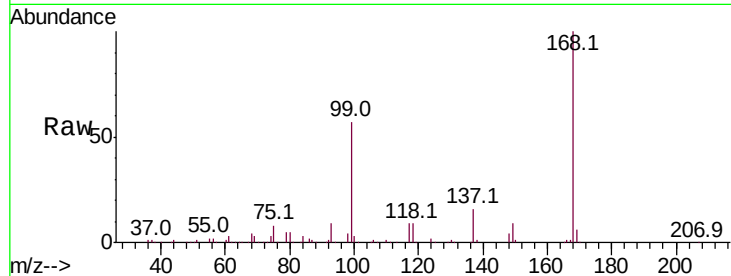
Tot Ion:117 Resp: 32532

Ion Ratio Lower Upper

117 100

119 5.2 76.2 114.2#

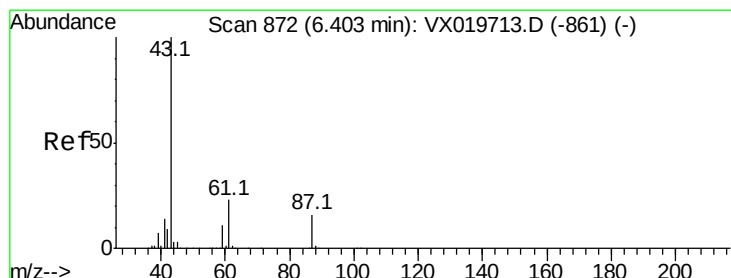
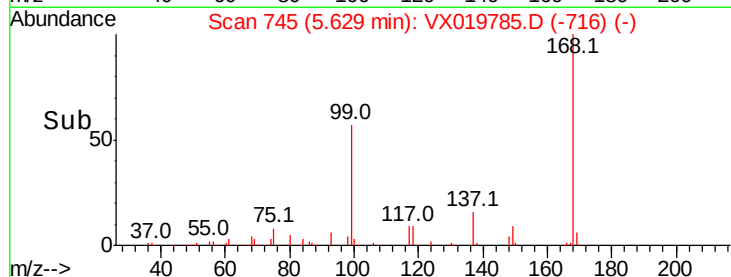
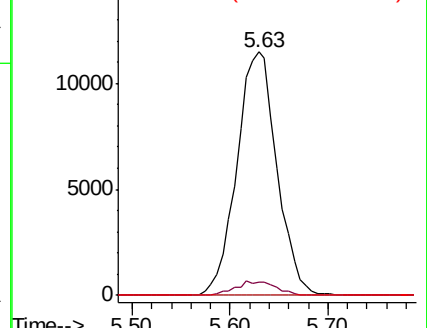
121 0.0 24.8 37.2#



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



#43

Isopropyl Acetate

Concen: 3.021 ug/l

RT: 6.41 min Scan# 873

Delta R.T. 0.01 min

Lab File: VX019785.D

Acq: 09 Dec 2020 17:44

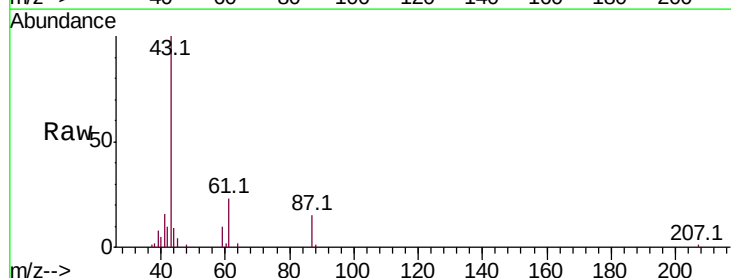
Tgt Ion: 43 Resp: 25001

Ion Ratio Lower Upper

43 100

61 22.2 18.2 27.4

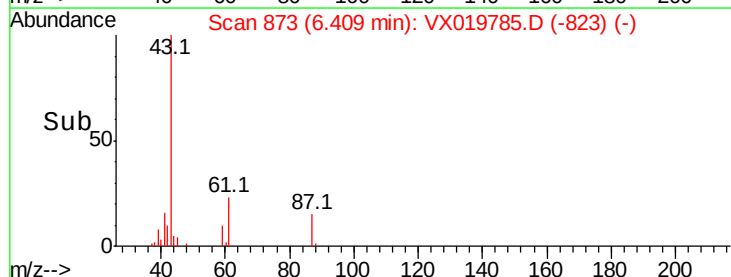
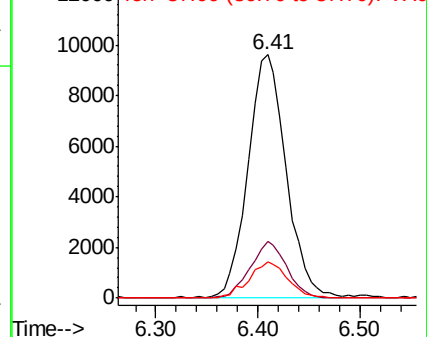
87 15.0 12.5 18.7

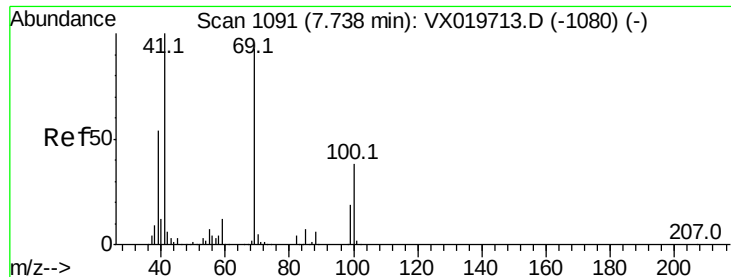


Abundance Ion 43.00 (42.70 to 43.70): VX0

Ion 61.00 (60.70 to 61.70): VX0

Ion 87.00 (86.70 to 87.70): VX0





#48

Methvl methacrylate

Concen: 31.447 ug/l

RT: 7.85 min Scan# 1109

Delta R.T. 0.11 min

Lab File: VX019785.D

Acq: 09 Dec 2020 17:44

Instrument :

MSVOA_X

ClientSampled :

5S1-D-TOP

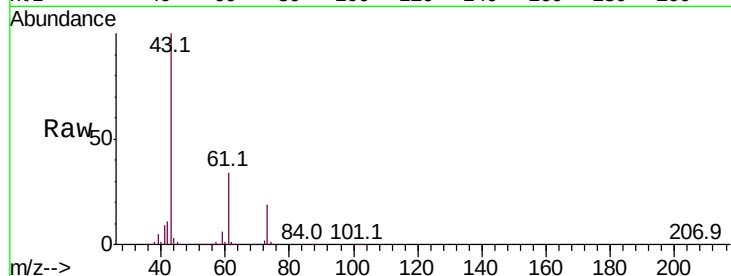
Tot Ion: 41 Resp: 127983

Ion Ratio Lower Upper

41 100

69 0.2 76.0 114.0#

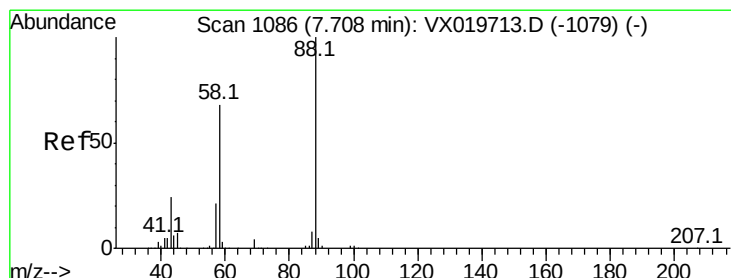
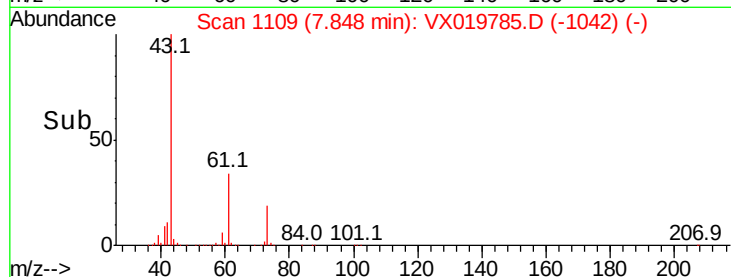
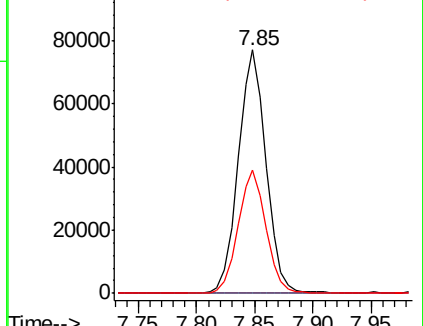
39 50.8 44.6 67.0



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: 3.165 ug/l

RT: 7.85 min Scan# 1109

Delta R.T. 0.14 min

Lab File: VX019785.D

Acq: 09 Dec 2020 17:44

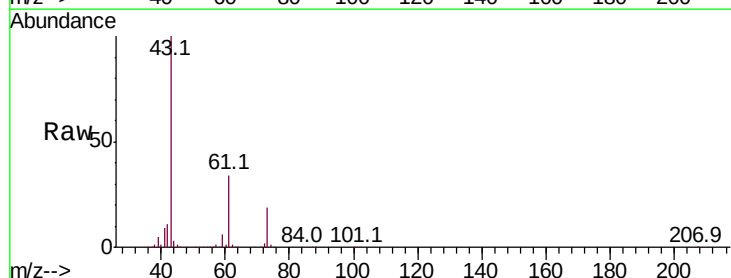
Tgt Ion: 88 Resp: 312

Ion Ratio Lower Upper

88 100

43 432197.8 23.2 34.8#

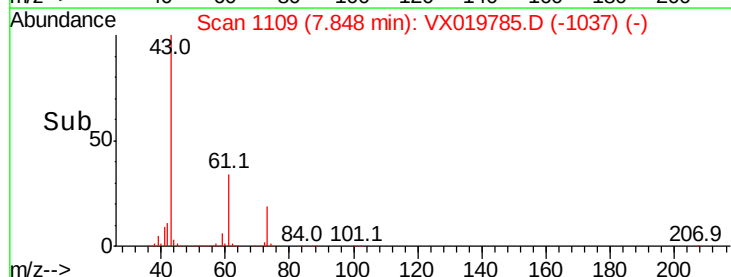
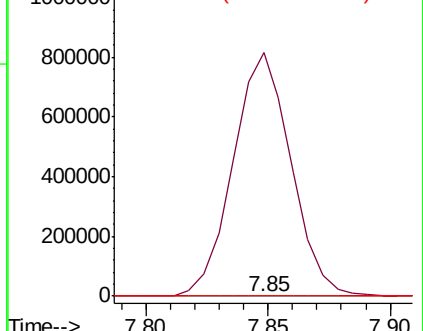
58 2170.5 55.0 82.4#

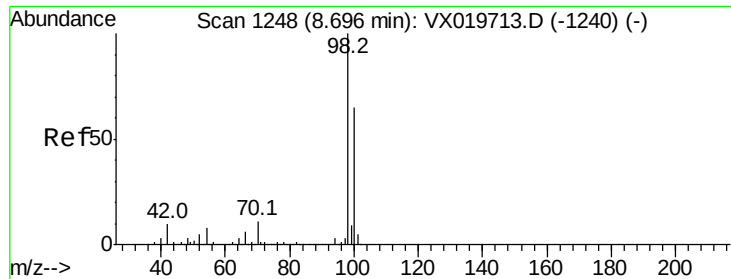


Abundance Ion 88.00 (87.70 to 88.70): VX0

Ion 43.00 (42.70 to 43.70): VX0

Ion 58.00 (57.70 to 58.70): VX0

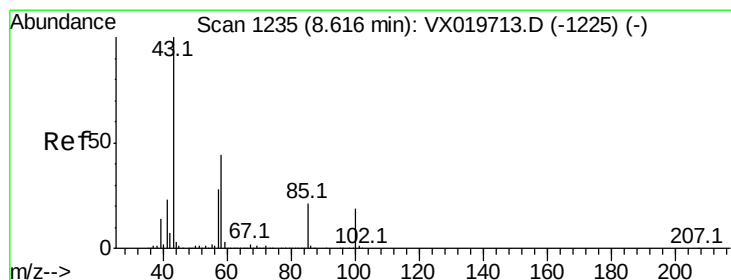
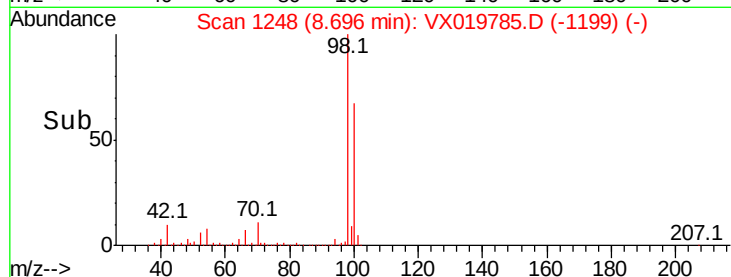
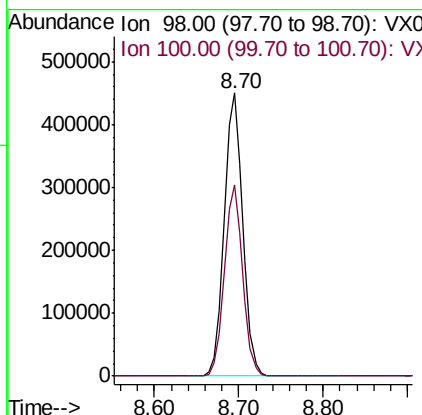
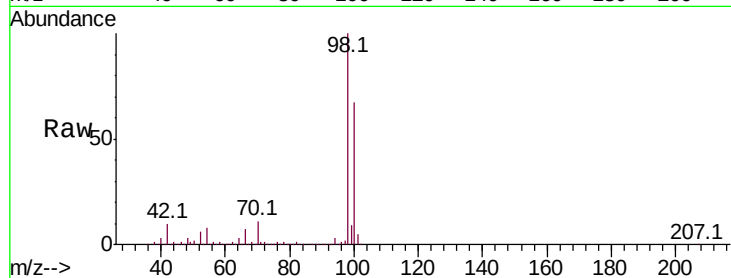




#50
Toluene-d8
Concen: 49.529 ug/l
RT: 8.70 min Scan# 1248
Delta R.T. -0.00 min
Lab File: VX019785.D
Acq: 09 Dec 2020 17:44

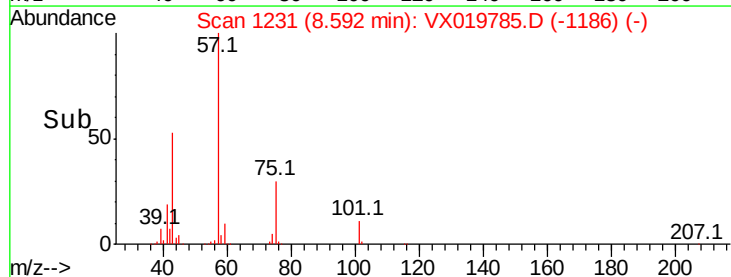
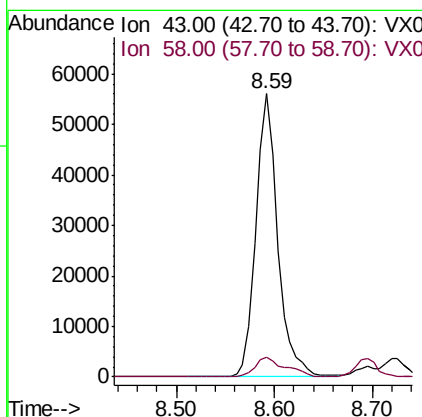
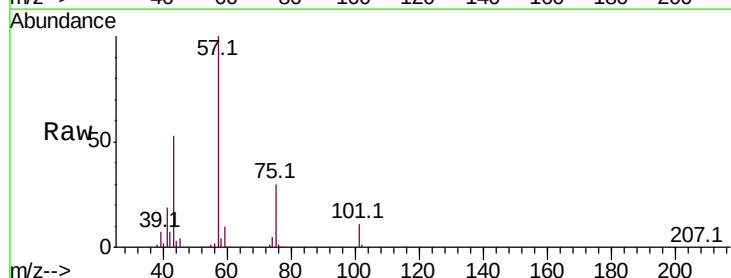
Instrument :
MSVOA_X
ClientSampled :
5S1-D-TOP

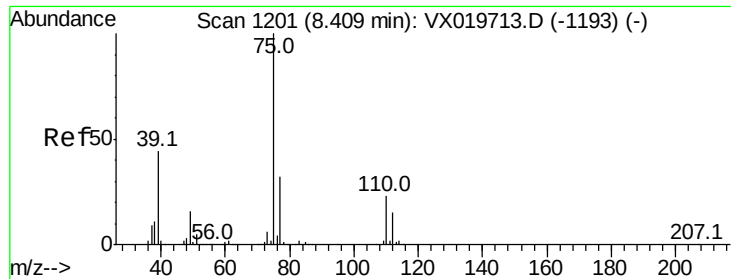
Tot Ion: 98 Resp: 681749
Ion Ratio Lower Upper
98 100
100 66.4 51.9 77.9



#51
4-Methyl-2-Pentanone
Concen: 17.150 ug/l
RT: 8.59 min Scan# 1231
Delta R.T. -0.02 min
Lab File: VX019785.D
Acq: 09 Dec 2020 17:44

Tgt Ion: 43 Resp: 86644
Ion Ratio Lower Upper
43 100
58 9.7 35.4 53.0#



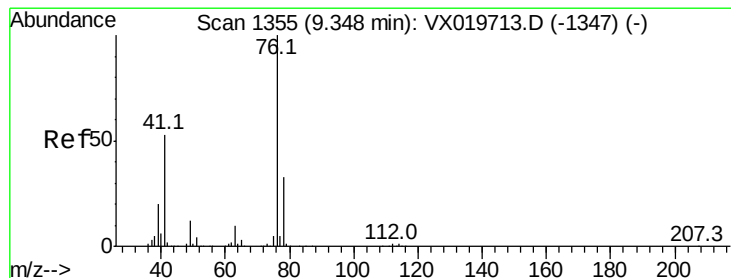
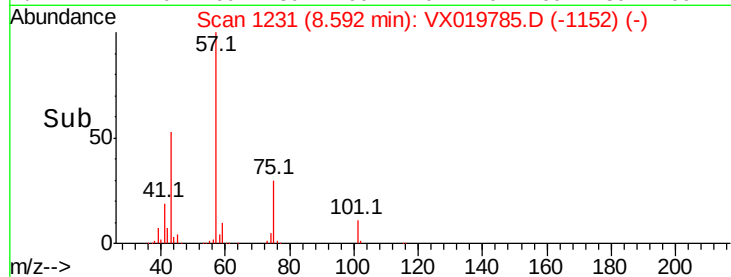
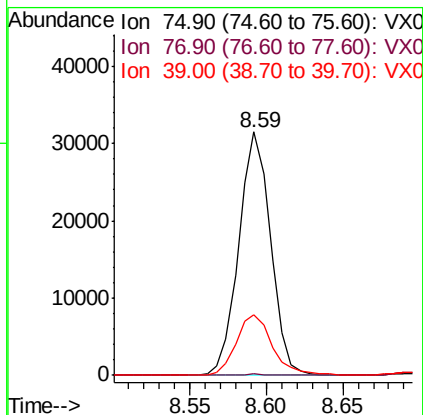
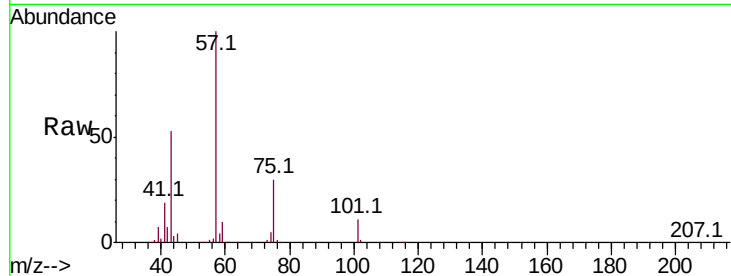


#54

cis-1,3-Dichloropropene
 Concen: 7.308 ug/l
 RT: 8.59 min Scan# 1231
 Delta R.T. 0.18 min
 Lab File: VX019785.D
 Acq: 09 Dec 2020 17:44

Instrument :
 MSVOA_X
 ClientSampleId :
 5S1-D-TOP

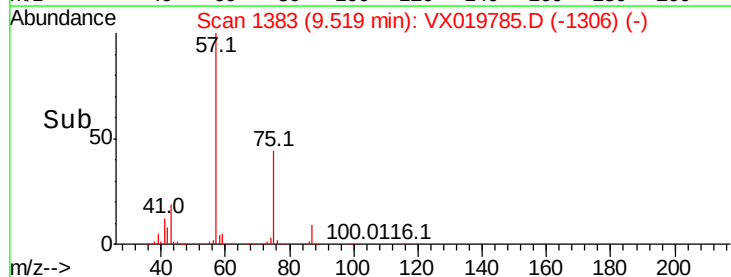
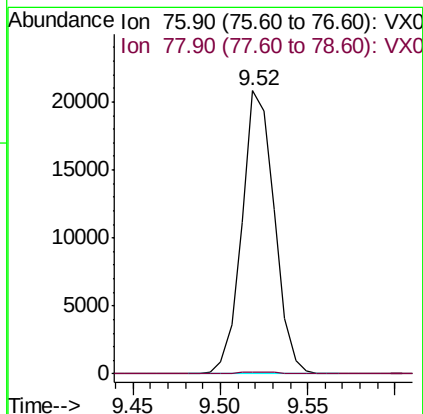
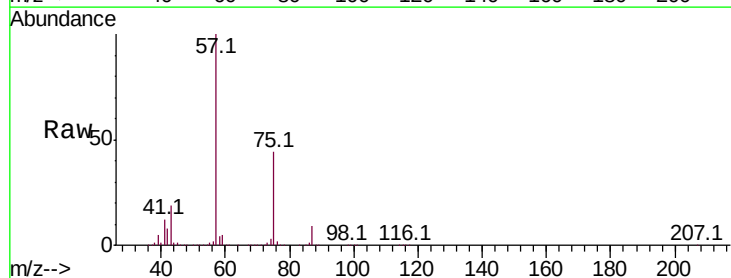
Tot Ion	Ratio	Lower	Upper
75	100		
77	0.6	25.7	38.5#
39	24.6	35.1	52.7#

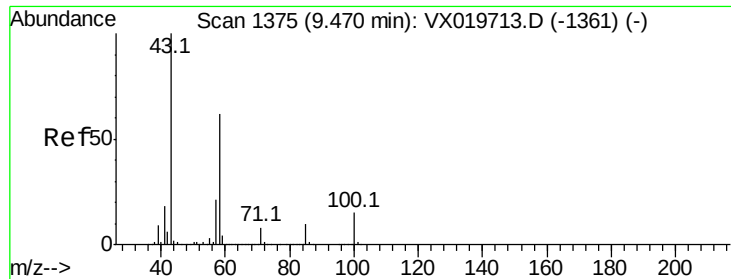


#57

1,3-Dichloropropane
 Concen: 4.050 ug/l
 RT: 9.52 min Scan# 1383
 Delta R.T. 0.17 min
 Lab File: VX019785.D
 Acq: 09 Dec 2020 17:44

Tgt Ion	Ratio	Lower	Upper
76	100		
78	0.6	26.2	39.2#

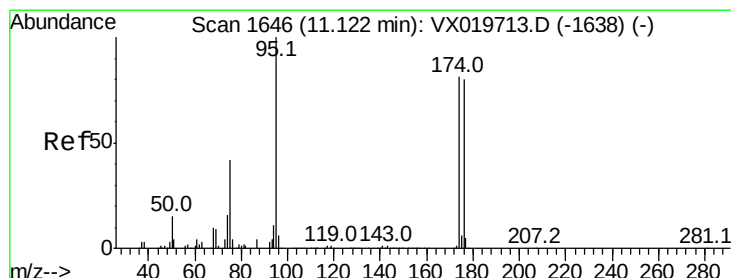
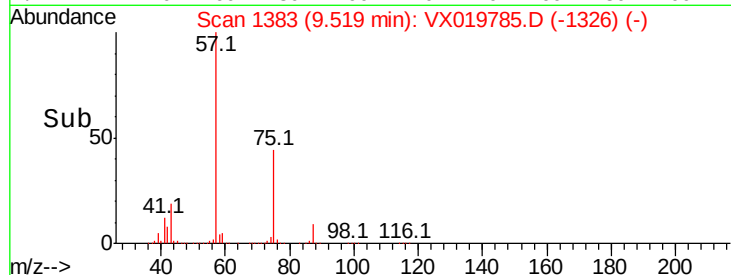
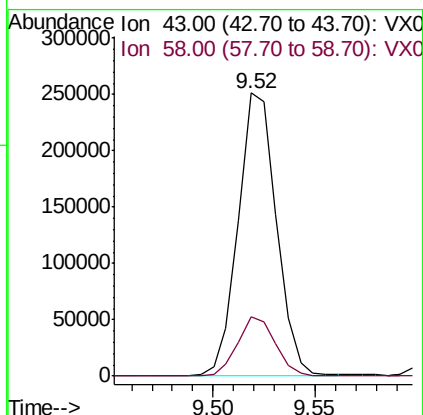
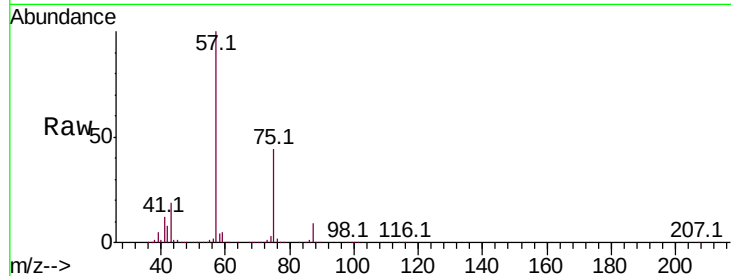




#59
2-Hexanone
Concen: 83.324 ug/l
RT: 9.52 min Scan# 1383
Delta R.T. 0.05 min
Lab File: VX019785.D
Acq: 09 Dec 2020 17:44

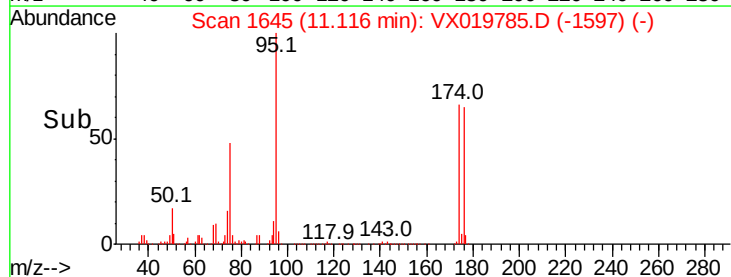
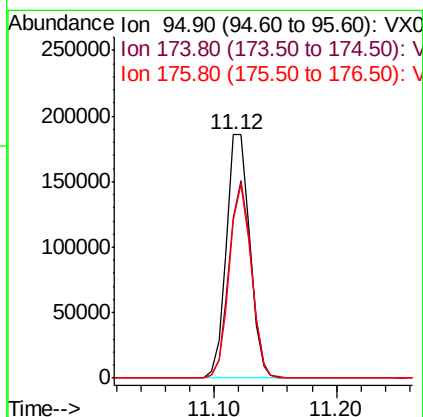
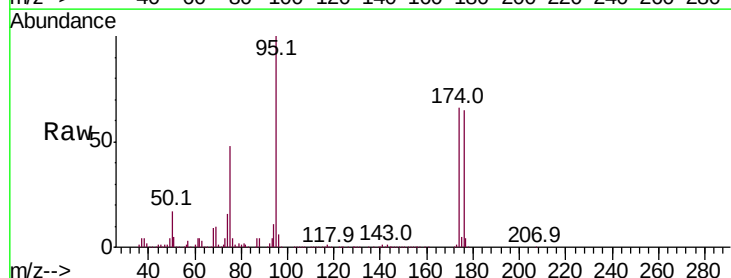
Instrument :
MSVOA_X
ClientSampled :
5S1-D-TOP

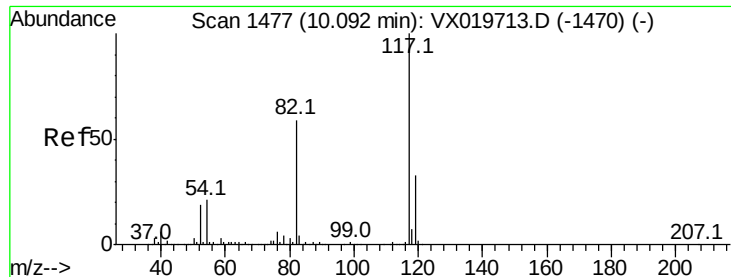
Tot Ion: 43 Resp: 326305
Ion Ratio Lower Upper
43 100
58 20.8 30.9 92.8#



#62
4-Bromofluorobenzene
Concen: 46.658 ug/l
RT: 11.12 min Scan# 1645
Delta R.T. -0.01 min
Lab File: VX019785.D
Acq: 09 Dec 2020 17:44

Tgt Ion: 95 Resp: 244440
Ion Ratio Lower Upper
95 100
174 77.9 0.0 154.6
176 74.8 0.0 155.8

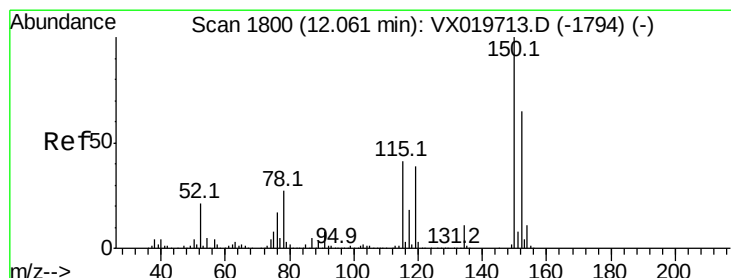
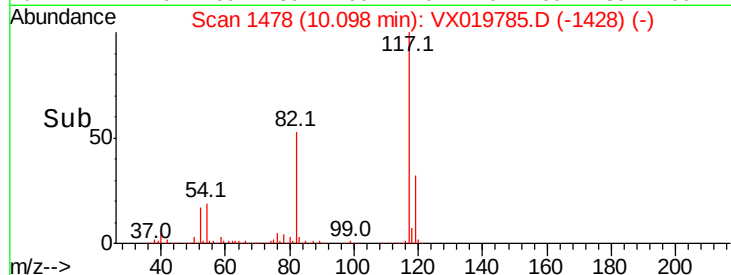
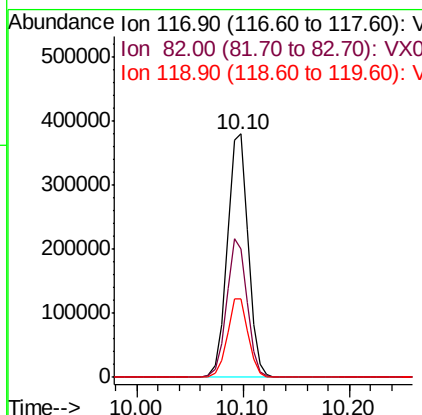
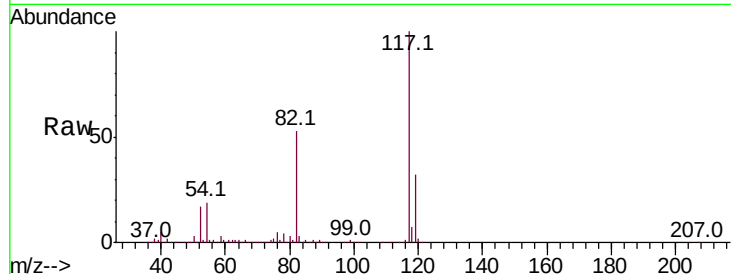




#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 10.10 min Scan# 1478
Delta R.T. 0.01 min
Lab File: VX019785.D
Acq: 09 Dec 2020 17:44

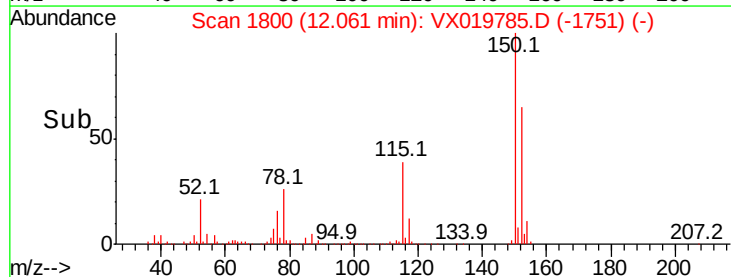
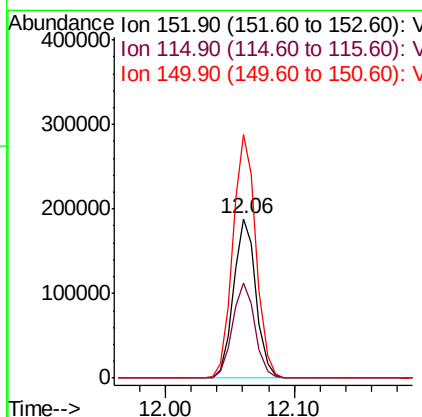
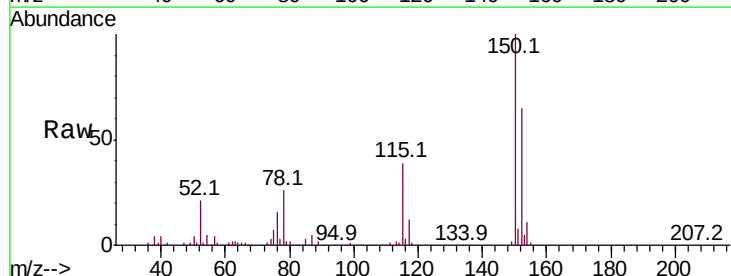
Instrument :
MSVOA_X
ClientSampled :
5S1-D-TOP

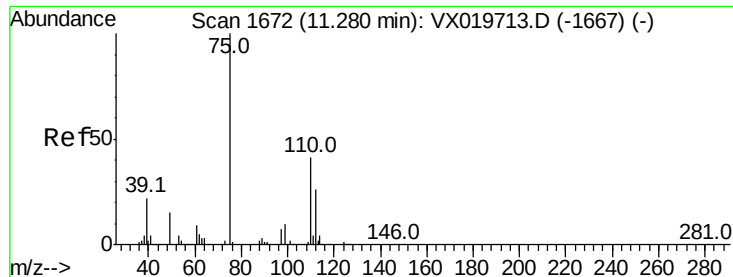
Tot Ion:117 Resp: 522106
Ion Ratio Lower Upper
117 100
82 53.0 47.4 71.2
119 32.3 26.6 39.8



#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 12.06 min Scan# 1800
Delta R.T. -0.00 min
Lab File: VX019785.D
Acq: 09 Dec 2020 17:44

Tgt Ion:152 Resp: 228684
Ion Ratio Lower Upper
152 100
115 60.2 41.1 123.3
150 156.8 0.0 349.0





#76

1,2,3-Trichloropropane

Concen: 22.986 ug/l

RT: 11.12 min Scan# 1646

Delta R.T. -0.16 min

Lab File: VX019785.D

Acq: 09 Dec 2020 17:44

Instrument :

MSVOA_X

ClientSampled :

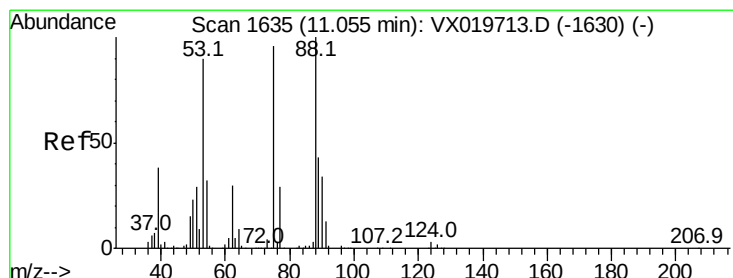
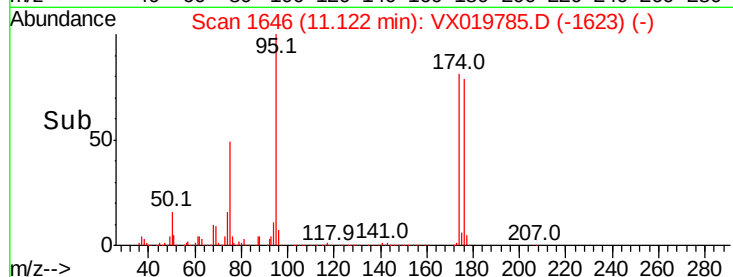
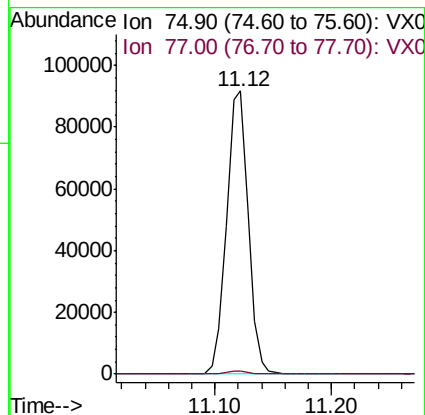
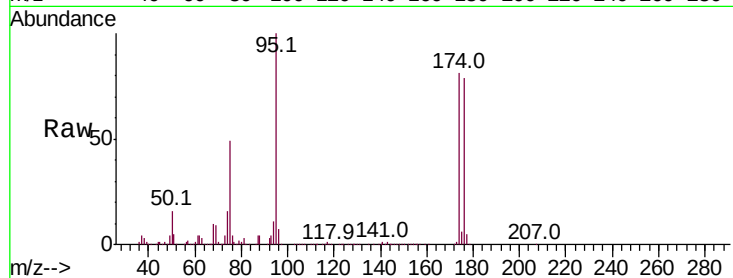
5S1-D-TOP

Tot Ion: 75 Resp: 117896

Ion Ratio Lower Upper

75 100

77 1.3 19.1 57.5#



#81

trans-1,4-Dichloro-2-butene

Concen: 66.449 ug/l

RT: 11.12 min Scan# 1646

Delta R.T. 0.07 min

Lab File: VX019785.D

Acq: 09 Dec 2020 17:44

Tgt Ion: 75 Resp: 117896

Ion Ratio Lower Upper

75 100

53 0.0 74.5 111.7#

89 0.0 37.9 56.9#

