

Data Path : Z:\VOASRV\HPCHEM1\MSVOA X\DATA\VX120920\
 Data File : VX019790.D
 Acq On : 09 Dec 2020 19:40
 Operator : JC/MD
 Sample : L4971-18
 Misc : 5.0mL/MSVOA X/WATER
 ALS Vial : 23 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :
 5S2-B-BOTTOM

Quant Time: Dec 10 05:42:24 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	333788	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	6.83	114	547609	50.00	ug/l	0.00
63) Chlorobenzene-d5	10.09	117	497862	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.06	152	217999	50.00	ug/l	0.00

System Monitoring Compounds

33) 1,2-Dichloroethane-d4	6.03	65	207159	47.22	ug/l	0.00
Spiked Amount	50.000	Range	61 - 141	Recovery	=	94.44%
35) Dibromofluoromethane	5.46	113	167617	47.36	ug/l	0.00
Spiked Amount	50.000	Range	69 - 133	Recovery	=	94.72%
50) Toluene-d8	8.70	98	669708	49.57	ug/l	0.00
Spiked Amount	50.000	Range	65 - 126	Recovery	=	99.14%
62) 4-Bromofluorobenzene	11.12	95	232699	45.25	ug/l	0.00
Spiked Amount	50.000	Range	58 - 135	Recovery	=	90.50%

Target Compounds

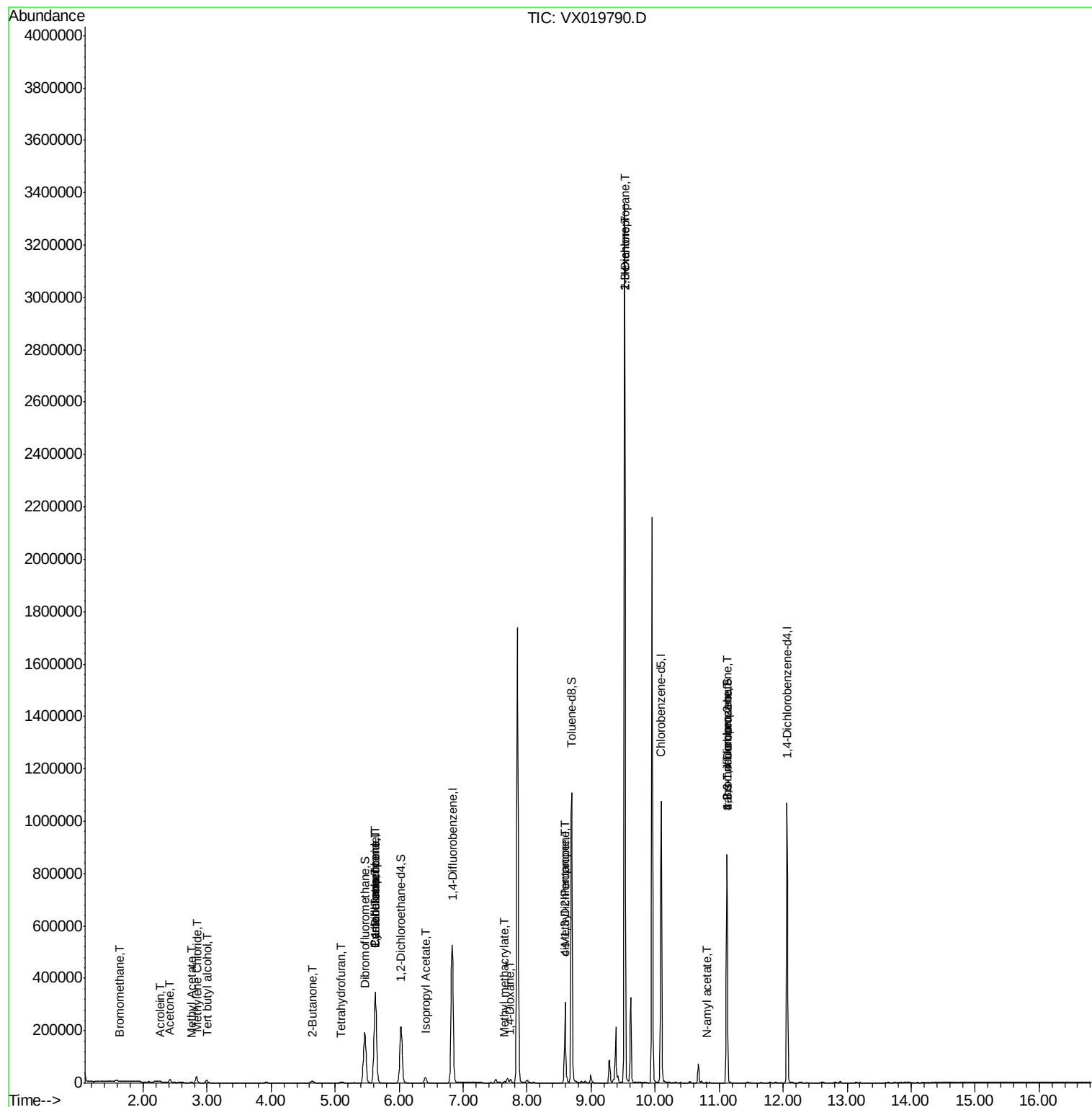
					Qvalue
5) Bromomethane	1.63	94	388	0.308	ug/l 98
11) Tert butyl alcohol	2.99	59	6460	4.598	ug/l # 77
13) Acrolein	2.27	56	116	0.240	ug/l # 1
16) Acetone	2.42	43	12715	7.711	ug/l 99
18) Methyl Acetate	2.75	43	1916	0.475	ug/l 96
20) Methylene Chloride	2.84	84	10864	1.507	ug/l 97
25) 2-Butanone	4.64	43	6067	2.394	ug/l 100
29) Tetrahydrofuran	5.09	42	2808	1.720	ug/l 94
31) Cyclohexane	5.63	56	6496	1.190	ug/l # 1
36) 1,1-Dichloropropene	5.63	75	24993	5.051	ug/l # 49
38) Carbon Tetrachloride	5.63	117	32471	6.701	ug/l # 16
43) Isopropyl Acetate	6.41	43	27470	3.382	ug/l 99
48) Methyl methacrylate	7.65	41	7694	1.926	ug/l # 10
49) 1,4-Dioxane	7.73	88	20	0.207	ug/l # 1
51) 4-Methyl-2-Pentanone	8.59	43	96778	19.515	ug/l # 47
54) cis-1,3-Dichloropropene	8.59	75	51070	8.368	ug/l # 59
57) 1,3-Dichloropropane	9.52	76	30192	4.641	ug/l # 43
59) 2-Hexanone	9.52	43	359987	93.647	ug/l # 46
74) N-amyl acetate	10.80	43	1235	0.207	ug/l # 43
76) 1,2,3-Trichloropropane	11.12	75	112155	22.939	ug/l # 39
81) trans-1,4-Dichloro-2-buten	11.12	75	112155	66.312	ug/l # 12

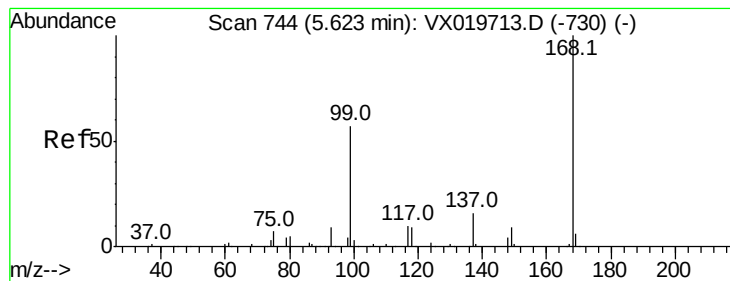
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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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: VX019790.D

Acq: 09 Dec 2020 19:40

Instrument :

MSVOA_X

ClientSampleId :

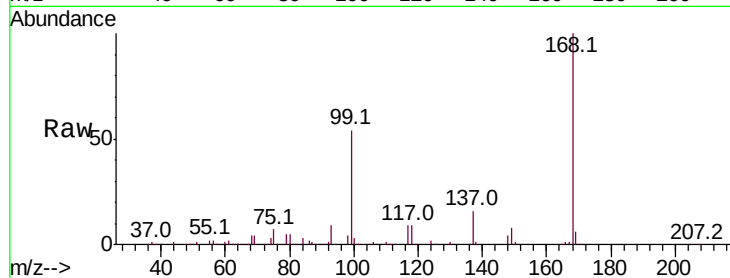
5S2-B-BOTTOM

Tot Ion:168 Resp: 333788

Ion Ratio Lower Upper

168 100

99 54.3 45.8 68.6



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VX0

5.63

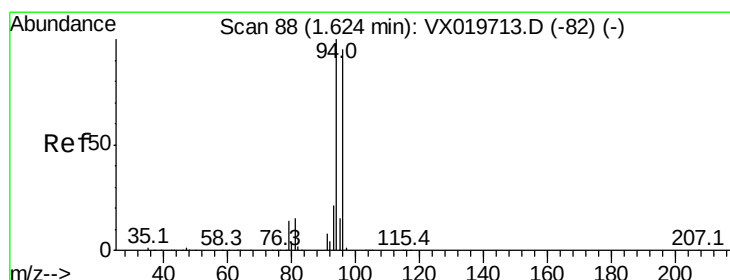
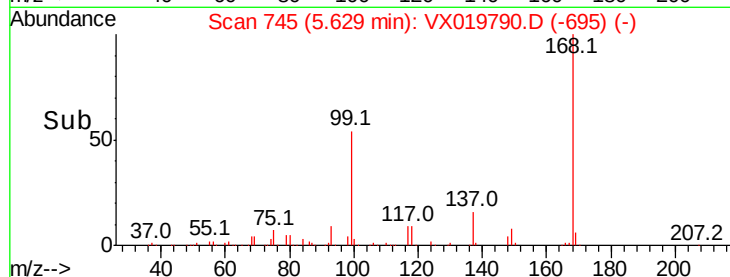
100000

50000

0

Time-->

5.50 5.60 5.70 5.80



#5

Bromomethane

Concen: 0.308 ug/l

RT: 1.63 min Scan# 89

Delta R.T. 0.01 min

Lab File: VX019790.D

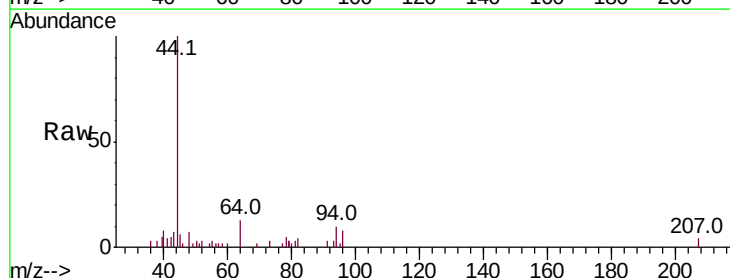
Acq: 09 Dec 2020 19:40

Tgt Ion: 94 Resp: 388

Ion Ratio Lower Upper

94 100

96 97.4 76.4 114.6



Abundance Ion 93.90 (93.60 to 94.60): VX0

Ion 95.90 (95.60 to 96.60): VX0

1.63

300

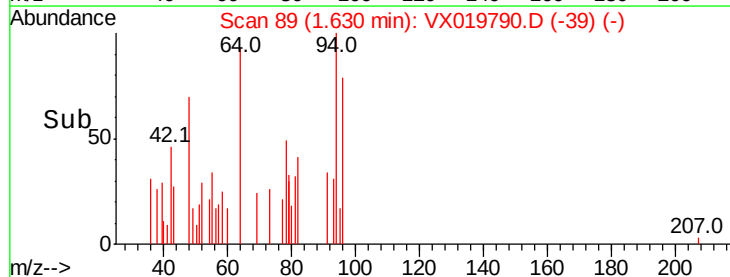
200

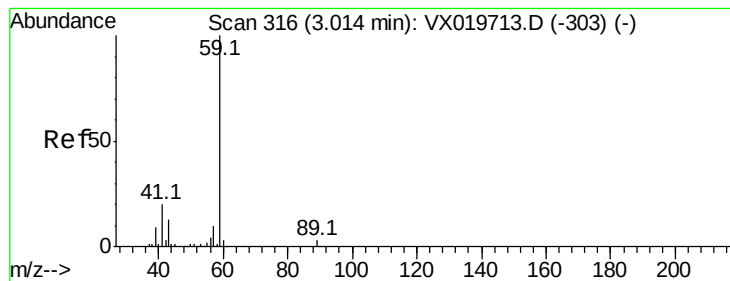
100

0

Time-->

1.60 1.65



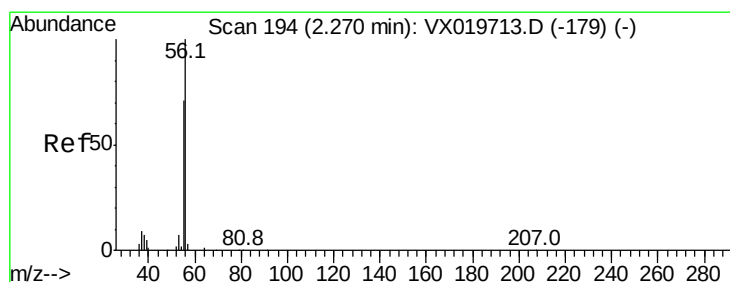
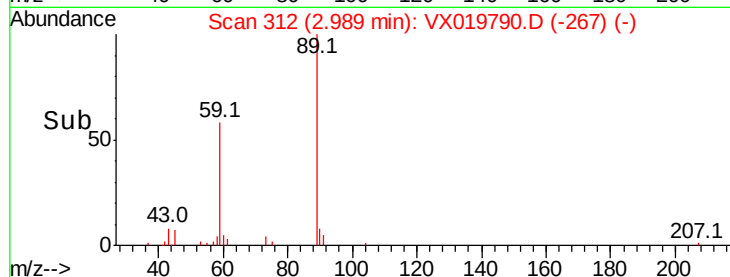
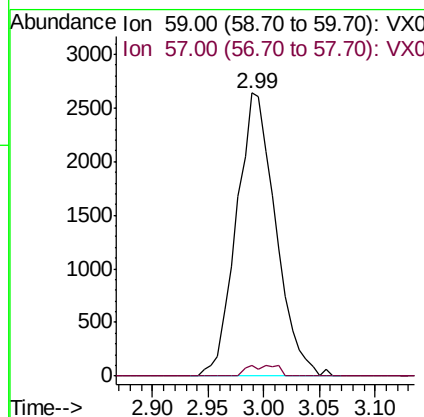
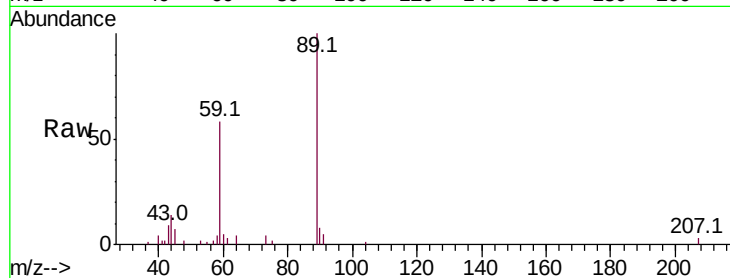


#11

Tert butyl alcohol
 Concen: 4.598 ug/l
 RT: 2.99 min Scan# 312
 Delta R.T. -0.02 min
 Lab File: VX019790.D
 Acq: 09 Dec 2020 19:40

Instrument :
 MSVOA_X
 ClientSampleId :
 5S2-B-BOTTOM

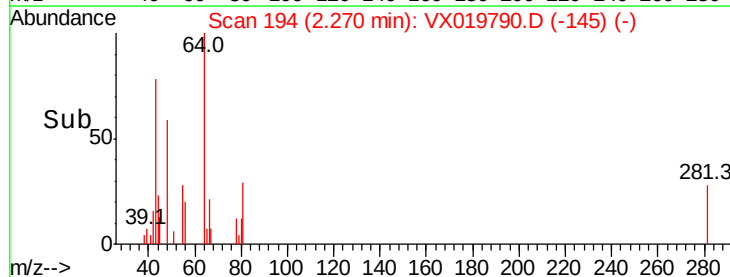
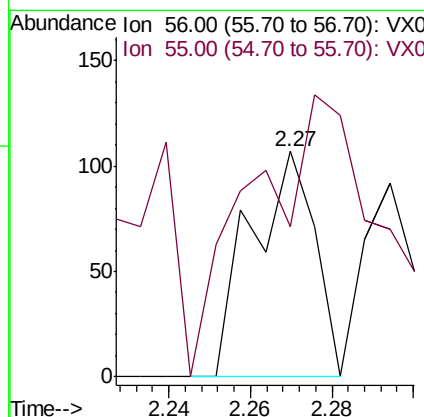
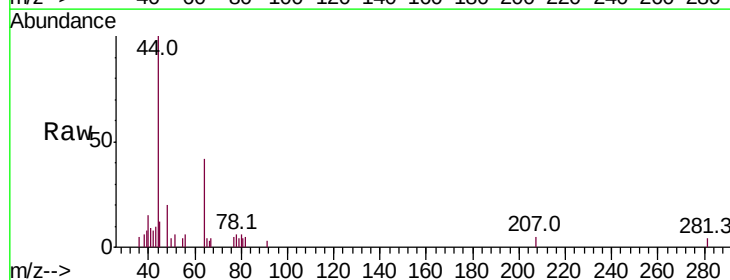
Tot Ion: 59 Resp: 6460
 Ion Ratio Lower Upper
 59 100
 57 1.4 7.8 11.8#

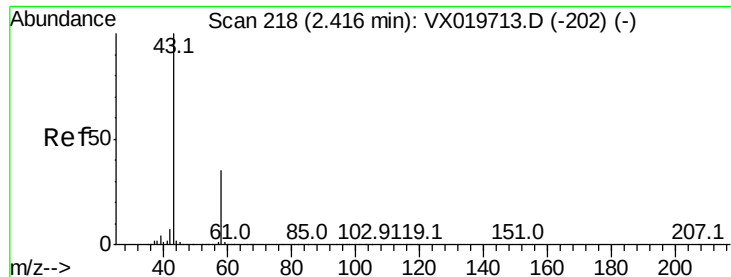


#13

Acrolein
 Concen: 0.240 ug/l
 RT: 2.27 min Scan# 194
 Delta R.T. -0.00 min
 Lab File: VX019790.D
 Acq: 09 Dec 2020 19:40

Tgt Ion: 56 Resp: 116
 Ion Ratio Lower Upper
 56 100
 55 244.0 56.4 84.6#





#16

Acetone

Concen: 7.711 ug/l

RT: 2.42 min Scan# 218

Delta R.T. -0.00 min

Lab File: VX019790.D

Acq: 09 Dec 2020 19:40

Instrument :

MSVOA_X

ClientSampleId :

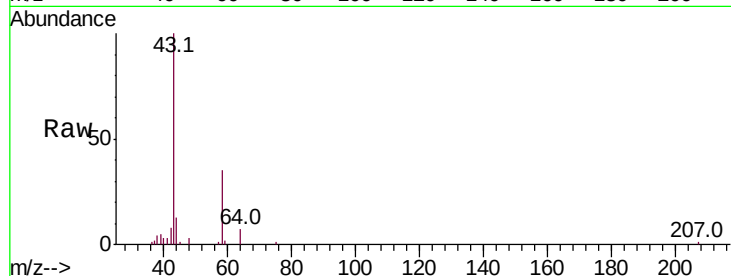
5S2-B-BOTTOM

Tot Ion: 43 Resp: 12715

Ion Ratio Lower Upper

43 100

58 35.5 27.8 41.8



Abundance Ion 43.00 (42.70 to 43.70): VX0

Ion 58.00 (57.70 to 58.70): VX0

2.42

8000

6000

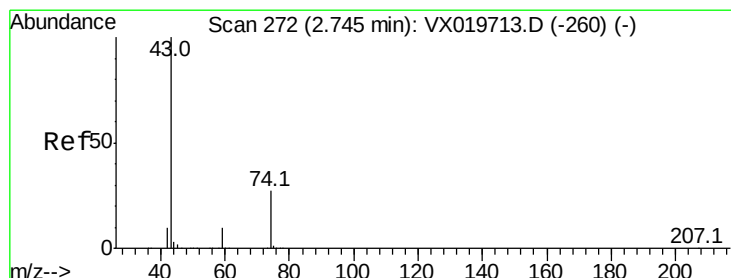
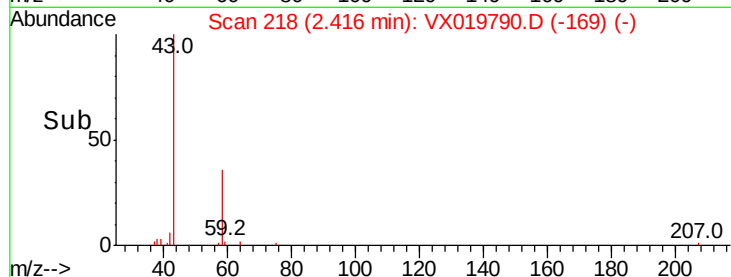
4000

2000

0

2.35 2.40 2.45 2.50

Time-->



#18

Methyl Acetate

Concen: 0.475 ug/l

RT: 2.75 min Scan# 273

Delta R.T. 0.01 min

Lab File: VX019790.D

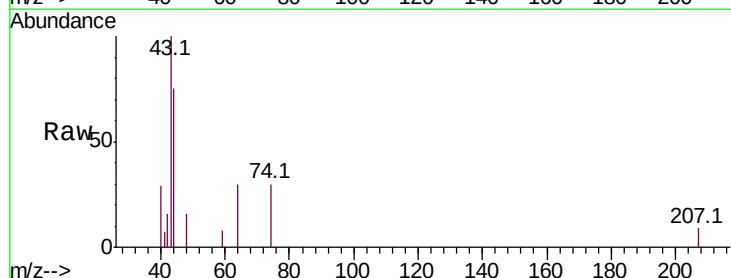
Acq: 09 Dec 2020 19:40

Tgt Ion: 43 Resp: 1916

Ion Ratio Lower Upper

43 100

74 29.6 21.9 32.9



Abundance Ion 43.00 (42.70 to 43.70): VX0

Ion 74.00 (73.70 to 74.70): VX0

1000

800

600

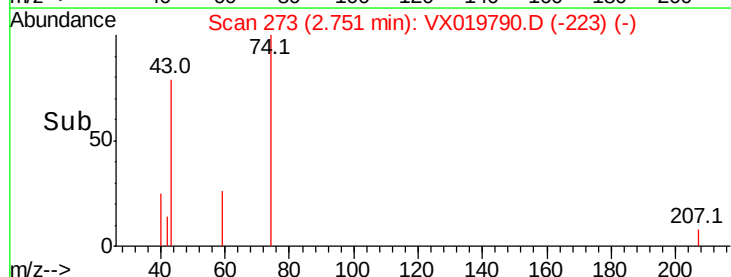
400

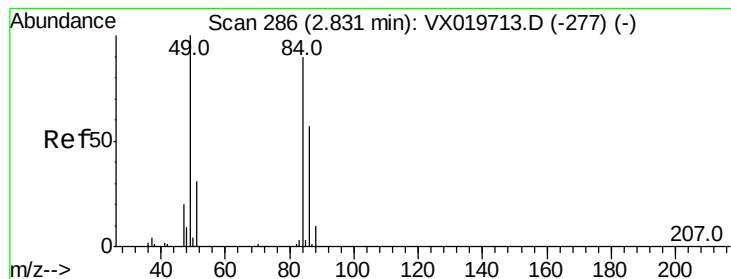
200

0

2.70 2.75 2.80

Time-->





#20

Methylene Chloride

Concen: 1.507 ug/l

RT: 2.84 min Scan# 287

Delta R.T. 0.01 min

Lab File: VX019790.D

Acq: 09 Dec 2020 19:40

Instrument :

MSVOA_X

ClientSampleId :

5S2-B-BOTTOM

Tot Ion: 84 Resp: 10864

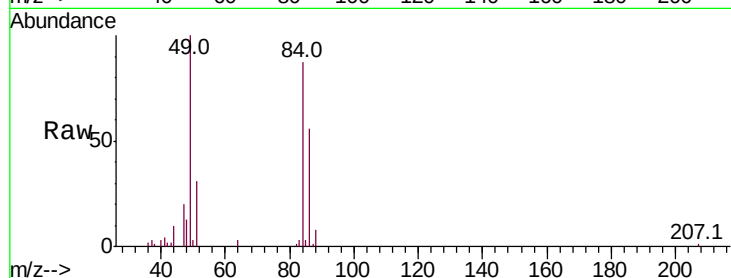
Ion Ratio Lower Upper

84 100

49 114.7 88.6 132.8

51 36.0 27.0 40.6

86 64.0 50.3 75.5



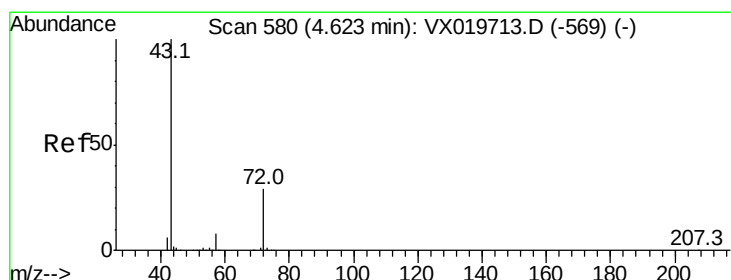
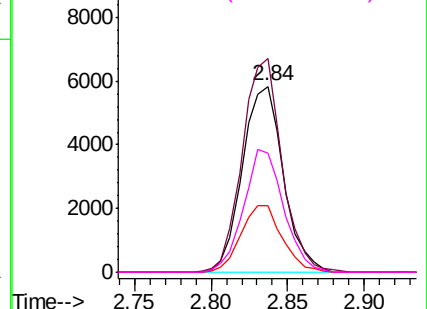
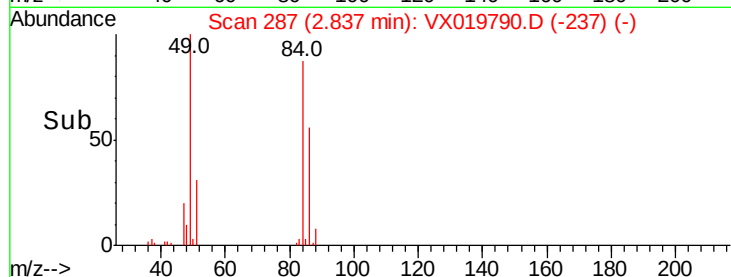
Abundance

Ion 83.90 (83.60 to 84.60): VX0

Ion 48.90 (48.60 to 49.60): VX0

Ion 50.90 (50.60 to 51.60): VX0

Ion 85.90 (85.60 to 86.60): VX0



#25

2-Butanone

Concen: 2.394 ug/l

RT: 4.64 min Scan# 583

Delta R.T. 0.02 min

Lab File: VX019790.D

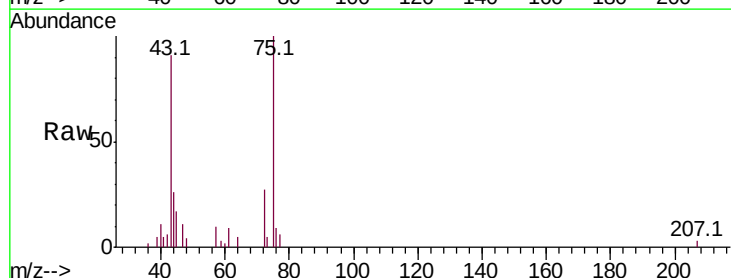
Acq: 09 Dec 2020 19:40

Tgt Ion: 43 Resp: 6067

Ion Ratio Lower Upper

43 100

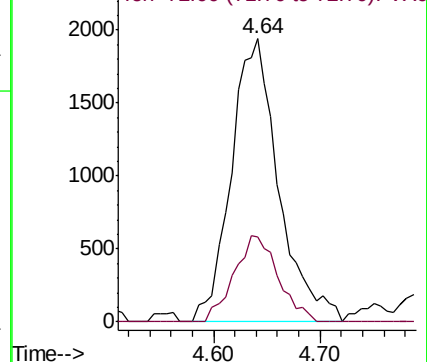
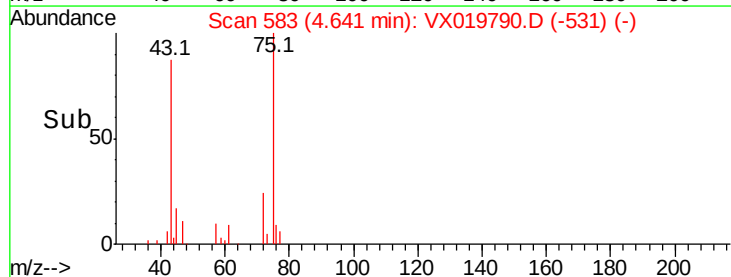
72 29.8 23.7 35.5

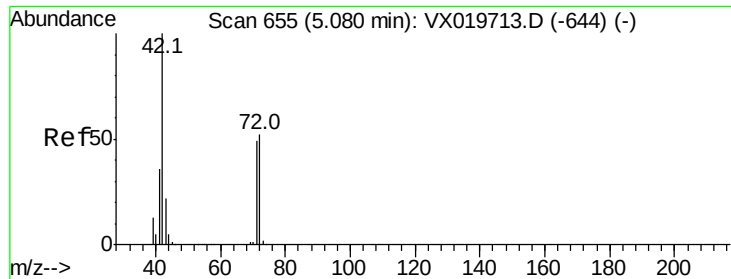


Abundance

Ion 43.00 (42.70 to 43.70): VX0

Ion 72.00 (71.70 to 72.70): VX0





#29

Tetrahydrofuran

Concen: 1.720 ug/l

RT: 5.09 min Scan# 657

Delta R.T. 0.01 min

Lab File: VX019790.D

Acq: 09 Dec 2020 19:40

Instrument :

MSVOA_X

ClientSampleId :

5S2-B-BOTTOM

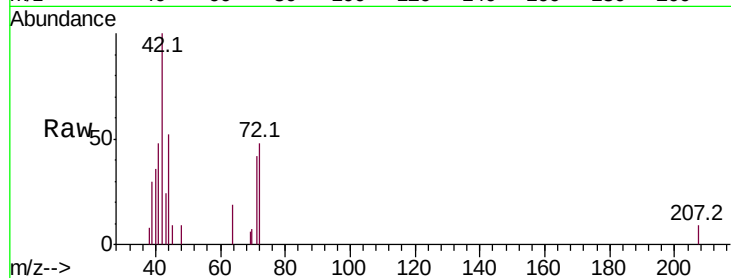
Tot Ion: 42 Resp: 2808

Ion Ratio Lower Upper

42 100

72 47.2 41.7 62.5

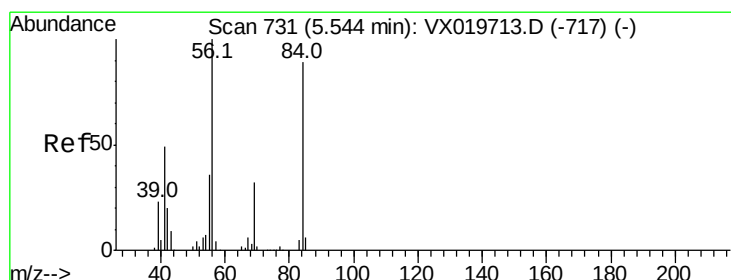
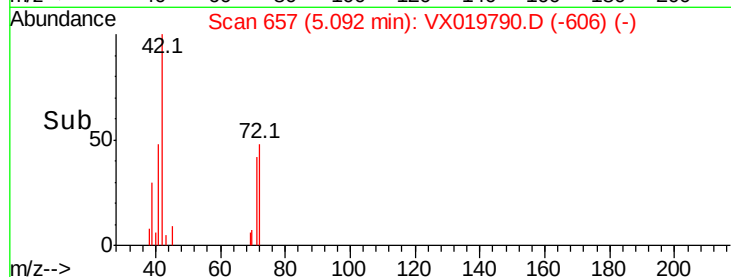
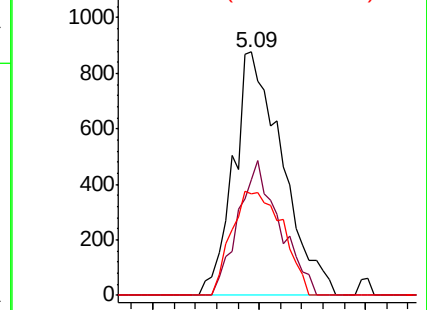
71 45.0 38.4 57.6



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: 1.190 ug/l

RT: 5.63 min Scan# 745

Delta R.T. 0.09 min

Lab File: VX019790.D

Acq: 09 Dec 2020 19:40

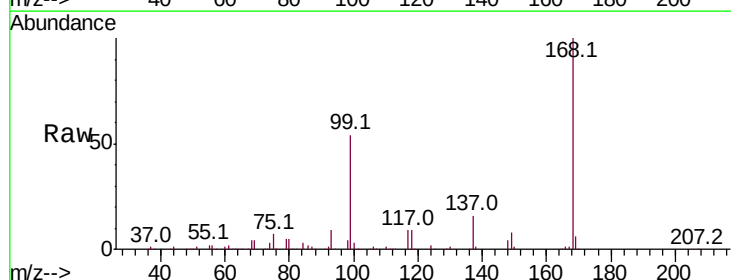
Tgt Ion: 56 Resp: 6496

Ion Ratio Lower Upper

56 100

69 177.0 25.3 37.9#

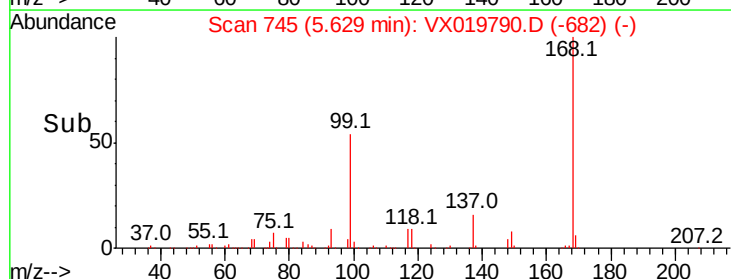
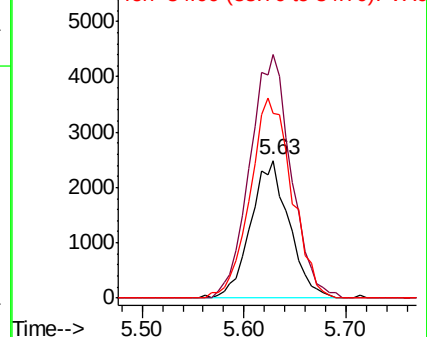
84 134.1 71.4 107.0#

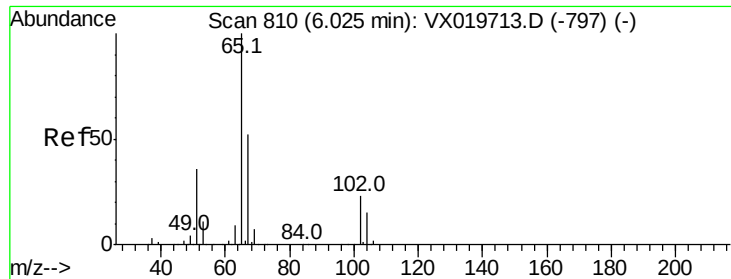


Abundance Ion 56.00 (55.70 to 56.70): VX0

Ion 69.00 (68.70 to 69.70): VX0

Ion 84.00 (83.70 to 84.70): VX0

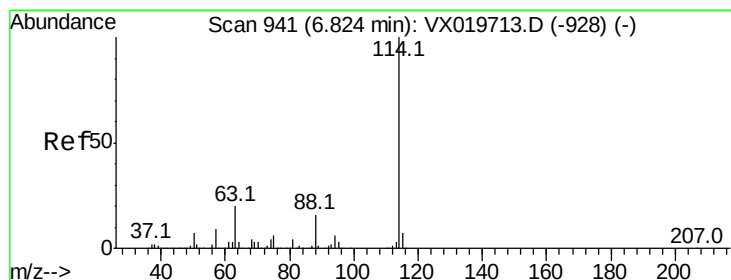
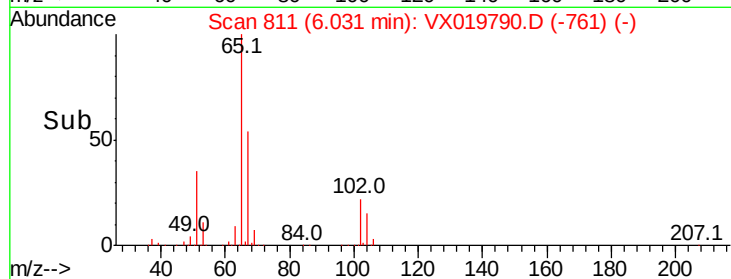
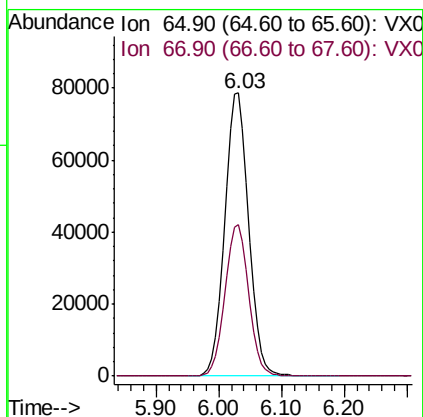
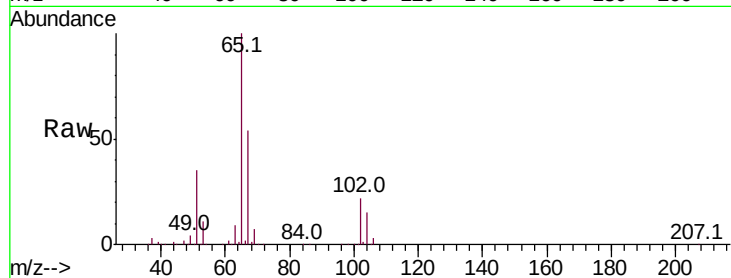




#33
 1,2-Dichloroethane-d4
 Concen: 47.222 ug/l
 RT: 6.03 min Scan# 811
 Delta R.T. 0.01 min
 Lab File: VX019790.D
 Acq: 09 Dec 2020 19:40

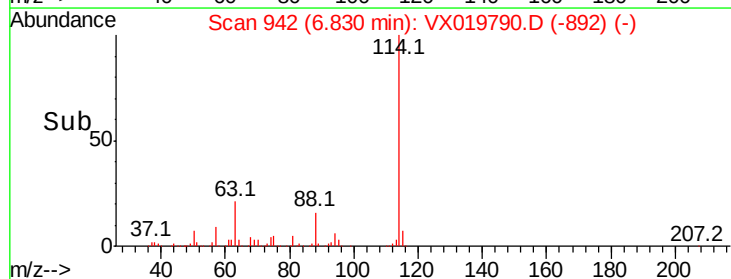
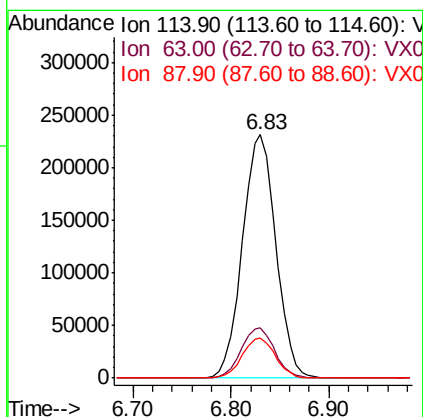
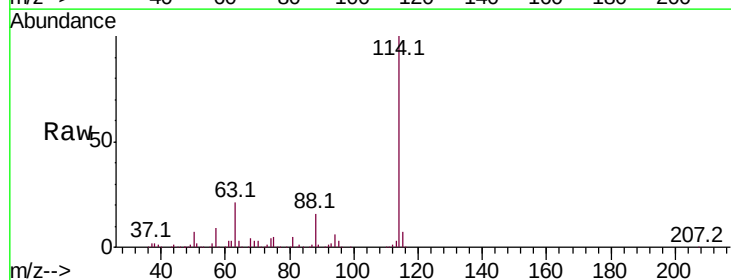
Instrument :
 MSVOA_X
 ClientSampleId :
 5S2-B-BOTTOM

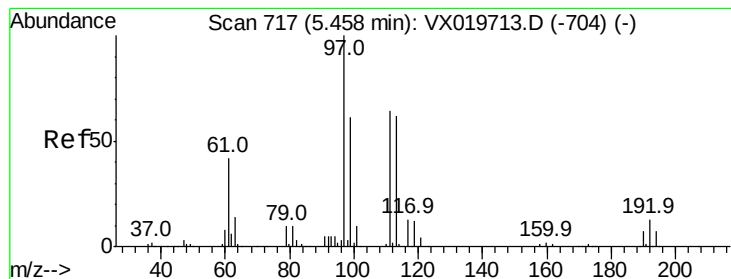
Tot Ion: 65 Resp: 207159
 Ion Ratio Lower Upper
 65 100
 67 53.2 0.0 105.4



#34
 1,4-Difluorobenzene
 Concen: 50.000 ug/l
 RT: 6.83 min Scan# 942
 Delta R.T. 0.01 min
 Lab File: VX019790.D
 Acq: 09 Dec 2020 19:40

Tgt Ion: 114 Resp: 547609
 Ion Ratio Lower Upper
 114 100
 63 20.7 0.0 40.8
 88 16.3 0.0 32.8





#35

Dibromofluoromethane

Concen: 47.361 ug/l

RT: 5.46 min Scan# 718

Delta R.T. 0.01 min

Lab File: VX019790.D

Acq: 09 Dec 2020 19:40

Instrument :

MSVOA_X

ClientSampleId :

5S2-B-BOTTOM

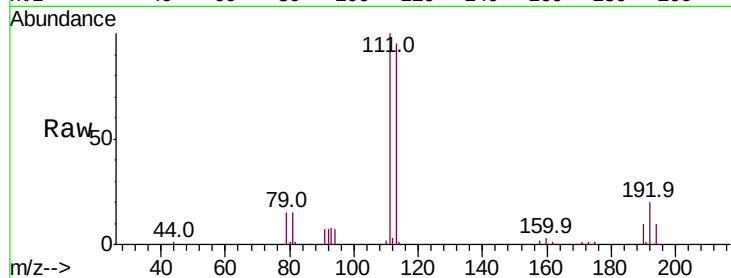
Tot Ion:113 Resp: 167617

Ion Ratio Lower Upper

113 100

111 103.7 81.9 122.9

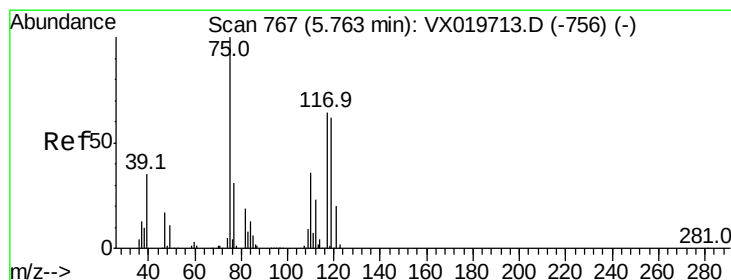
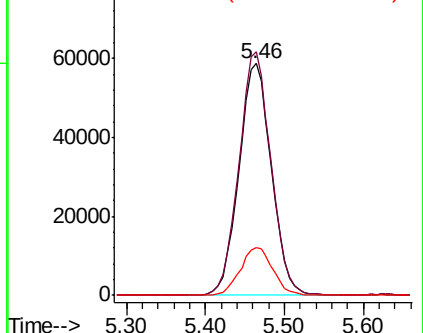
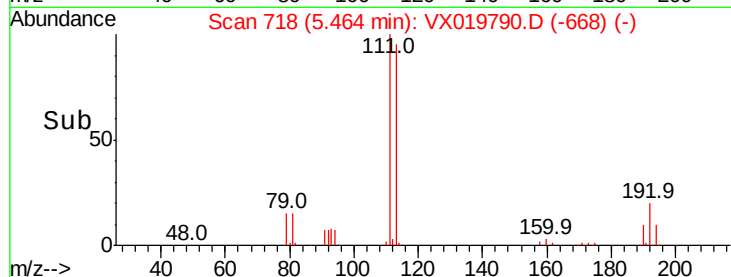
192 20.7 16.7 25.1



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: 5.051 ug/l

RT: 5.63 min Scan# 745

Delta R.T. -0.13 min

Lab File: VX019790.D

Acq: 09 Dec 2020 19:40

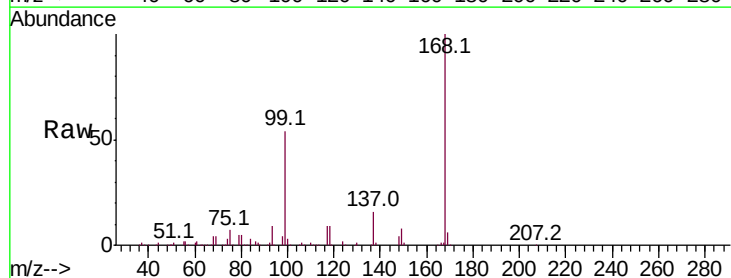
Tgt Ion: 75 Resp: 24993

Ion Ratio Lower Upper

75 100

110 8.9 18.1 54.4#

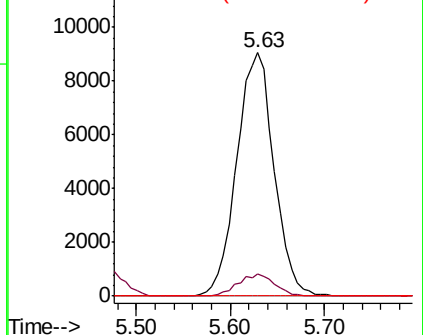
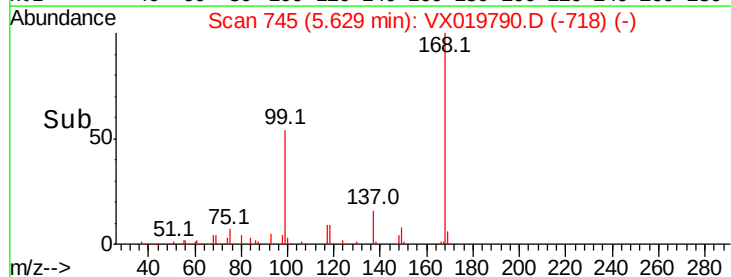
77 0.0 25.3 37.9#

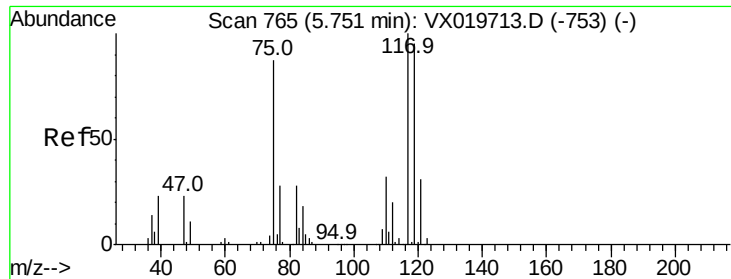


Abundance Ion 74.90 (74.60 to 75.60): VX0

Ion 109.90 (109.60 to 110.60): V

Ion 76.90 (76.60 to 77.60): VX0





#38

Carbon Tetrachloride

Concen: 6.701 ug/l

RT: 5.63 min Scan# 745

Delta R.T. -0.12 min

Lab File: VX019790.D

Acq: 09 Dec 2020 19:40

Instrument :

MSVOA_X

ClientSampleId :

5S2-B-BOTTOM

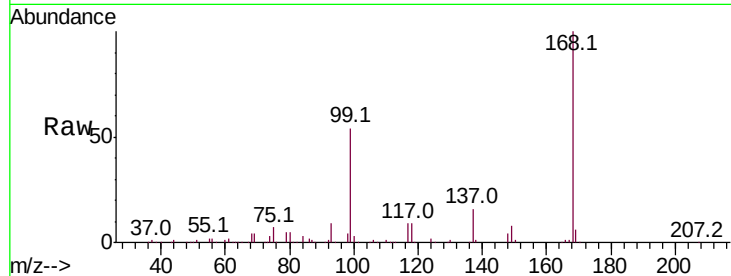
Tot Ion:117 Resp: 32471

Ion Ratio Lower Upper

117 100

119 4.4 76.2 114.2#

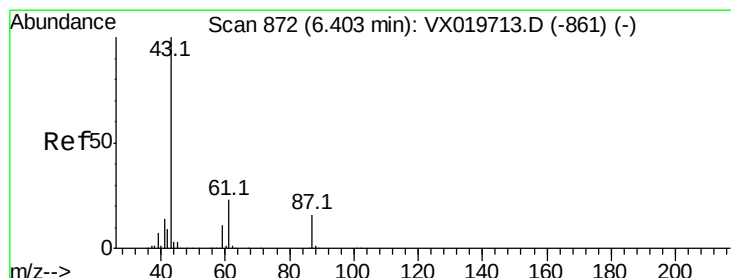
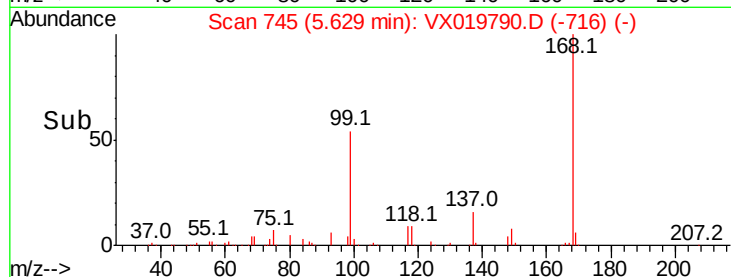
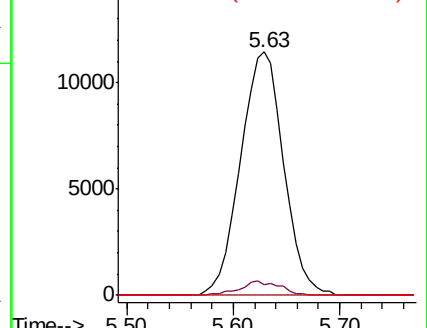
121 0.0 24.8 37.2#



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: 3.382 ug/l

RT: 6.41 min Scan# 873

Delta R.T. 0.01 min

Lab File: VX019790.D

Acq: 09 Dec 2020 19:40

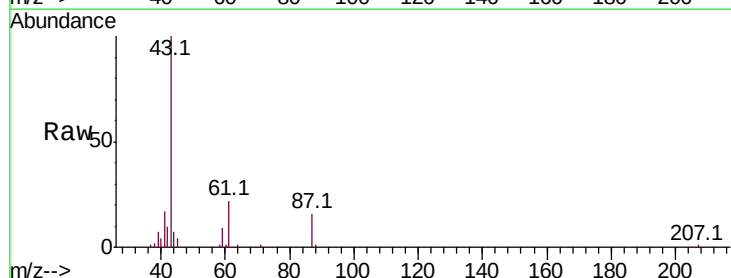
Tgt Ion: 43 Resp: 27470

Ion Ratio Lower Upper

43 100

61 22.1 18.2 27.4

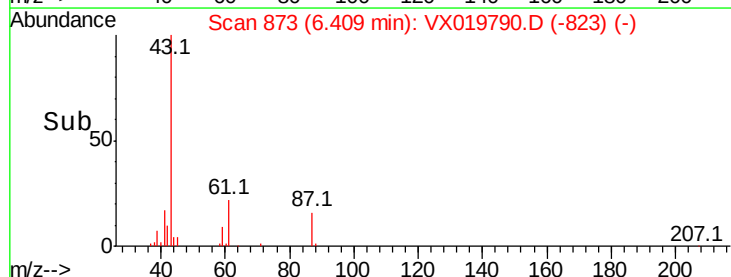
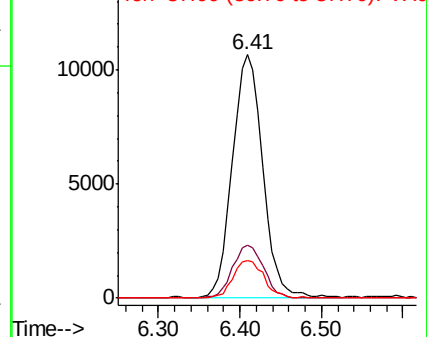
87 15.4 12.5 18.7

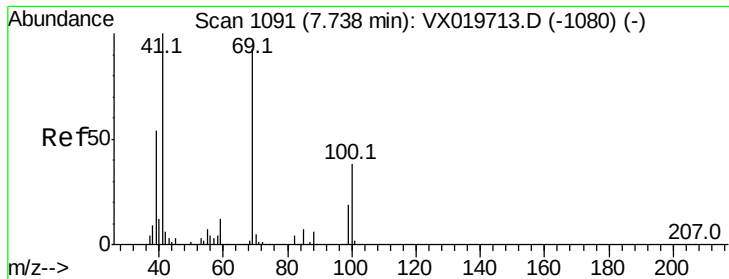


Abundance Ion 43.00 (42.70 to 43.70): VX0

Ion 61.00 (60.70 to 61.70): VX0

Ion 87.00 (86.70 to 87.70): VX0





#48

Methvl methacrylate

Concen: 1.926 ug/l

RT: 7.65 min Scan# 1076

Delta R.T. -0.09 min

Lab File: VX019790.D

Acq: 09 Dec 2020 19:40

Instrument :

MSVOA_X

ClientSampleId :

5S2-B-BOTTOM

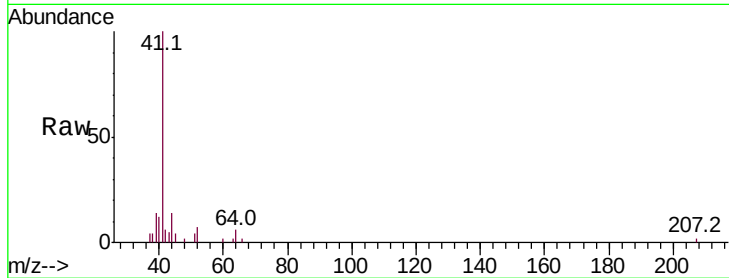
Tot Ion: 41 Resp: 7694

Ion Ratio Lower Upper

41 100

69 0.0 76.0 114.0#

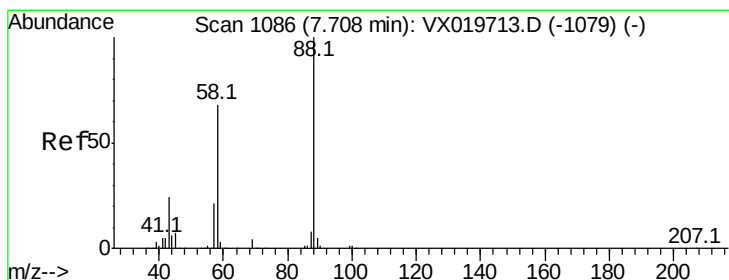
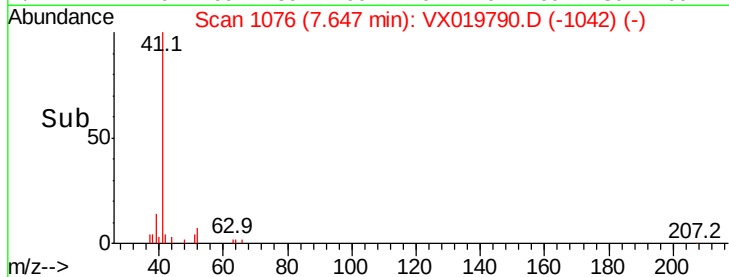
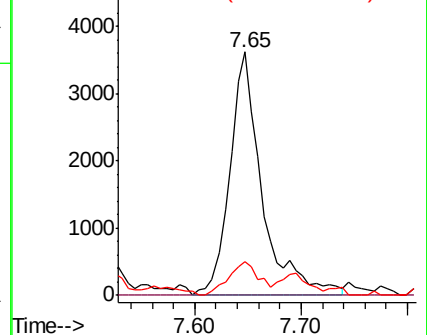
39 0.0 44.6 67.0#



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: 0.207 ug/l

RT: 7.73 min Scan# 1089

Delta R.T. 0.02 min

Lab File: VX019790.D

Acq: 09 Dec 2020 19:40

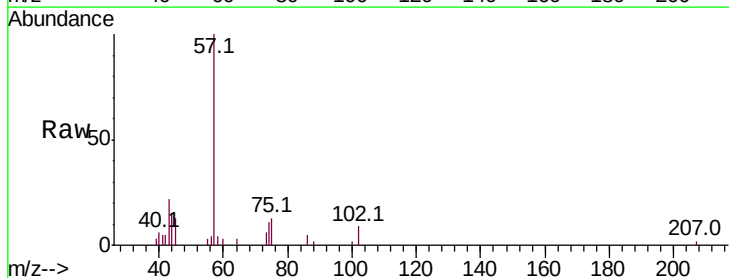
Tgt Ion: 88 Resp: 20

Ion Ratio Lower Upper

88 100

43 0.0 23.2 34.8#

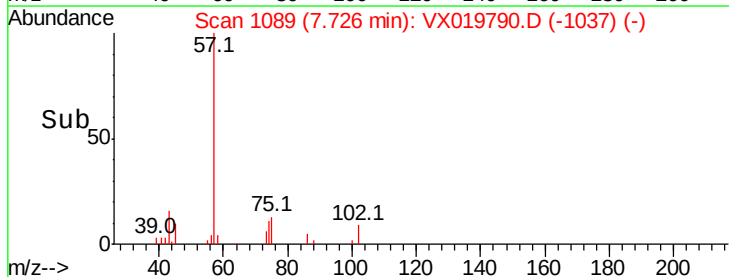
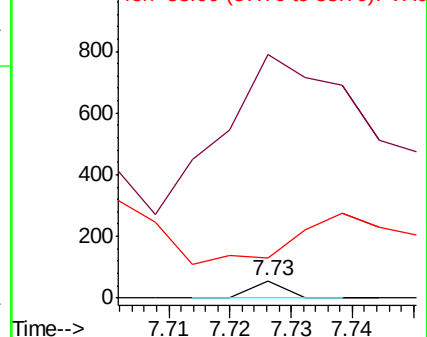
58 2065.0 55.0 82.4#

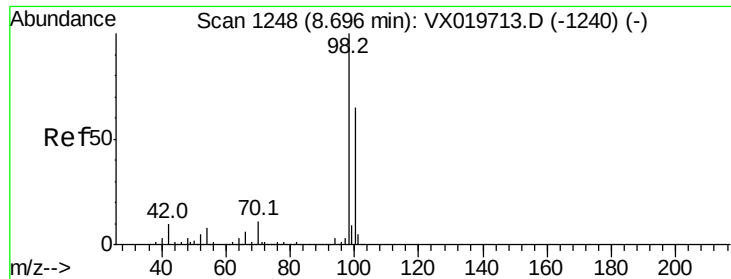


Abundance Ion 88.00 (87.70 to 88.70): VX0

Ion 43.00 (42.70 to 43.70): VX0

Ion 58.00 (57.70 to 58.70): VX0

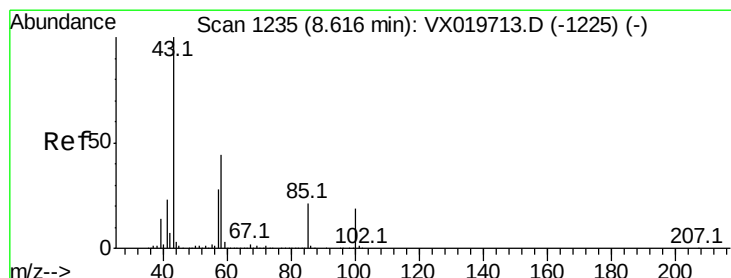
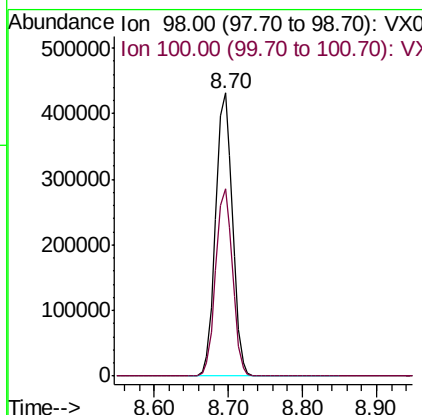
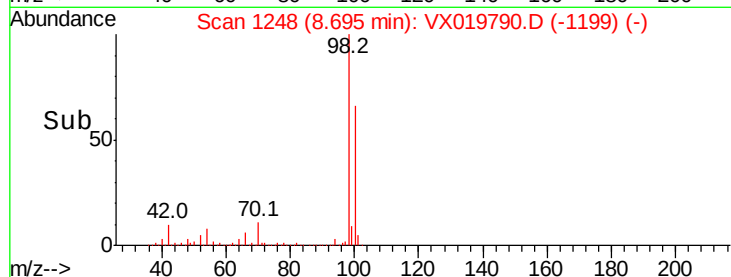
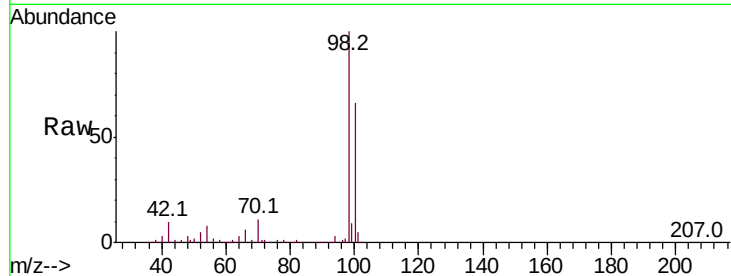




#50
Toluene-d8
Concen: 49.566 ug/l
RT: 8.70 min Scan# 1248
Delta R.T. -0.00 min
Lab File: VX019790.D
Acq: 09 Dec 2020 19:40

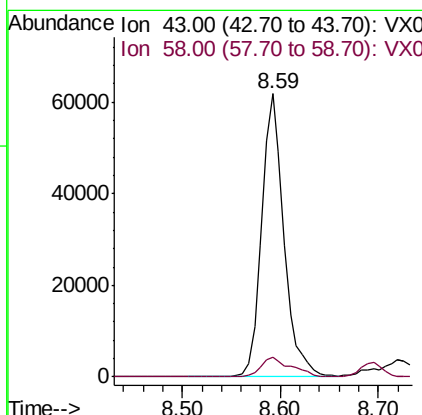
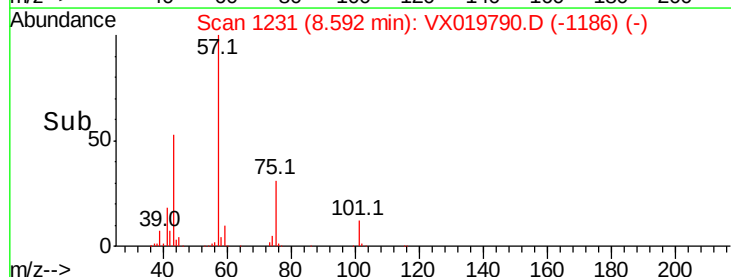
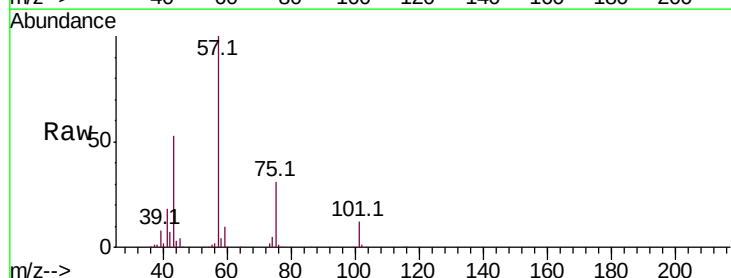
Instrument :
MSVOA_X
ClientSampleId :
5S2-B-BOTTOM

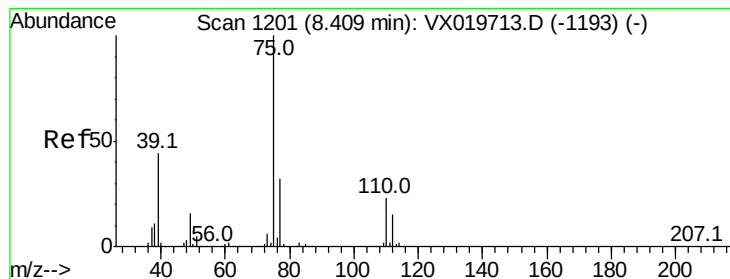
Tot Ion: 98 Resp: 669708
Ion Ratio Lower Upper
98 100
100 66.3 51.9 77.9



#51
4-Methyl-2-Pentanone
Concen: 19.515 ug/l
RT: 8.59 min Scan# 1231
Delta R.T. -0.02 min
Lab File: VX019790.D
Acq: 09 Dec 2020 19:40

Tgt Ion: 43 Resp: 96778
Ion Ratio Lower Upper
43 100
58 9.6 35.4 53.0#



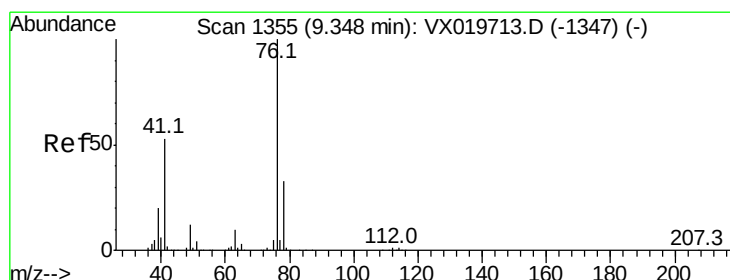
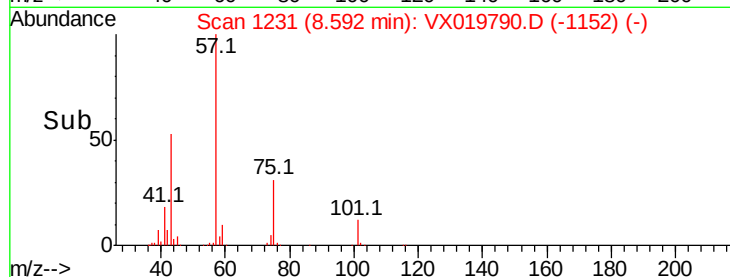
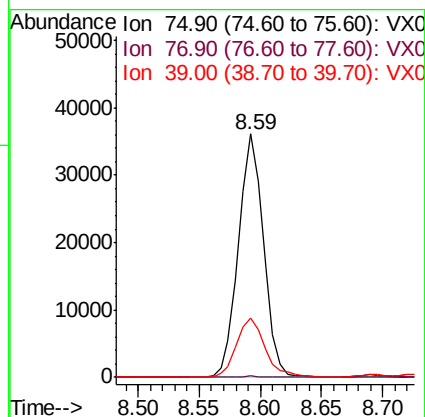
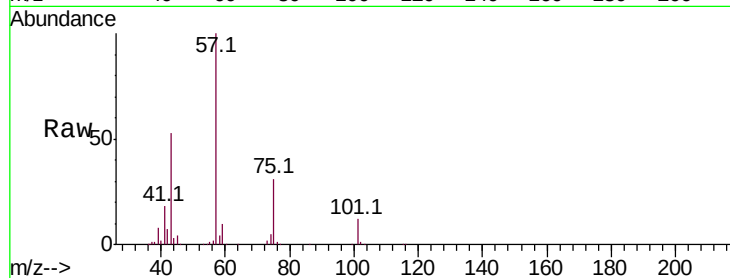


#54

cis-1,3-Dichloropropene
 Concen: 8.368 ug/l
 RT: 8.59 min Scan# 1231
 Delta R.T. 0.18 min
 Lab File: VX019790.D
 Acq: 09 Dec 2020 19:40

Instrument :
 MSVOA_X
 ClientSampleId :
 5S2-B-BOTTOM

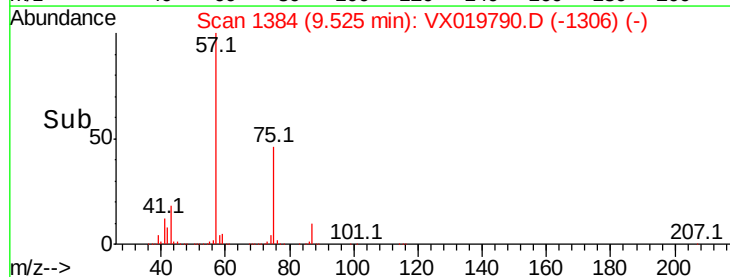
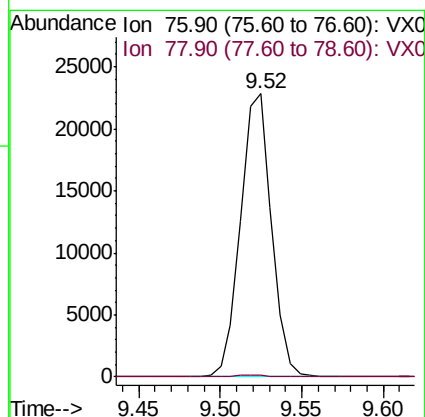
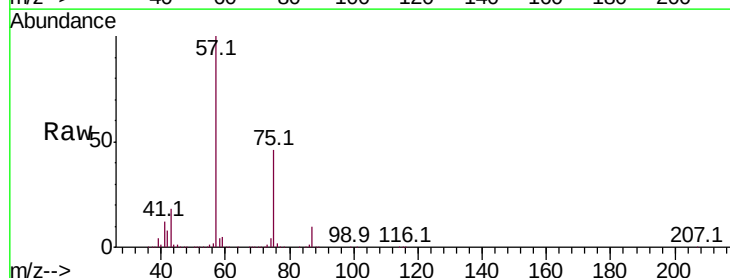
Tot Ion: 75 Resp: 51070
 Ion Ratio Lower Upper
 75 100
 77 0.5 25.7 38.5#
 39 24.4 35.1 52.7#

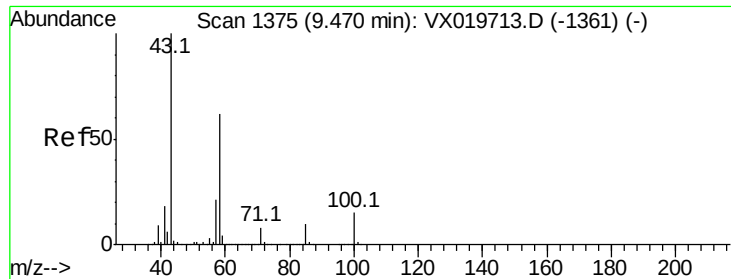


#57

1,3-Dichloropropane
 Concen: 4.641 ug/l
 RT: 9.52 min Scan# 1384
 Delta R.T. 0.18 min
 Lab File: VX019790.D
 Acq: 09 Dec 2020 19:40

Tgt Ion: 76 Resp: 30192
 Ion Ratio Lower Upper
 76 100
 78 0.6 26.2 39.2#





#59

2-Hexanone

Concen: 93.647 ug/l

RT: 9.52 min Scan# 1384

Delta R.T. 0.05 min

Lab File: VX019790.D

Acq: 09 Dec 2020 19:40

Instrument :

MSVOA_X

ClientSampleId :

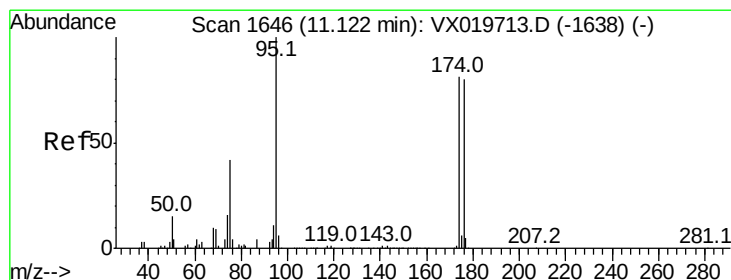
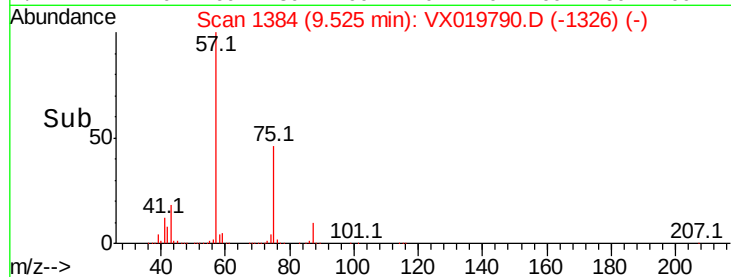
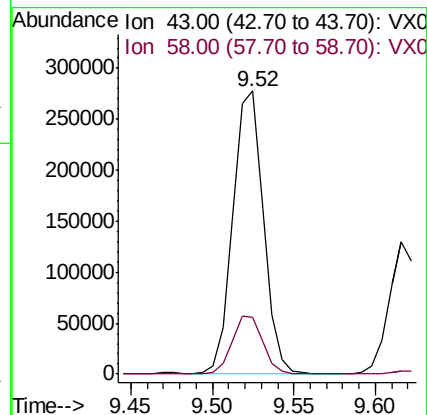
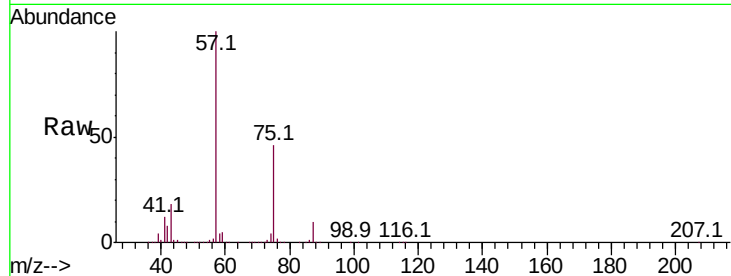
5S2-B-BOTTOM

Tot Ion: 43 Resp: 359987

Ion Ratio Lower Upper

43 100

58 20.7 30.9 92.8#



#62

4-Bromofluorobenzene

Concen: 45.249 ug/l

RT: 11.12 min Scan# 1646

Delta R.T. -0.00 min

Lab File: VX019790.D

Acq: 09 Dec 2020 19:40

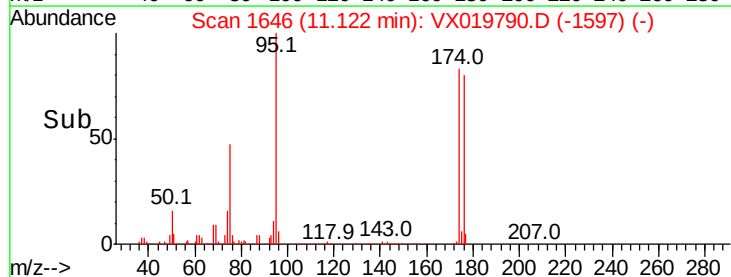
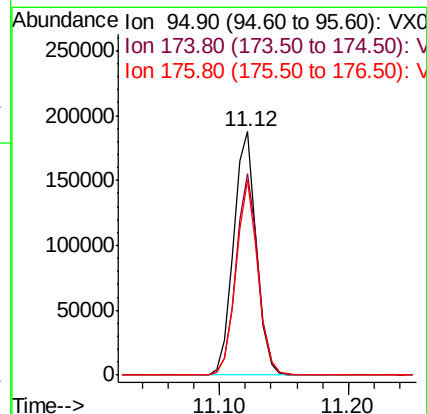
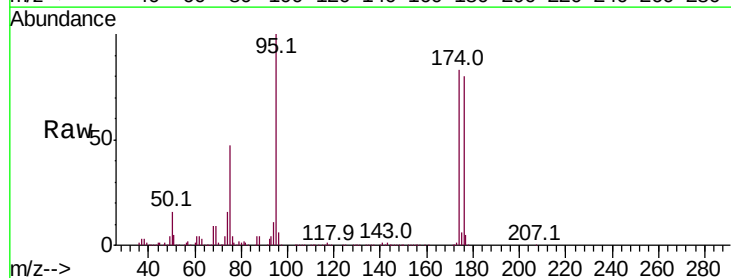
Tgt Ion: 95 Resp: 232699

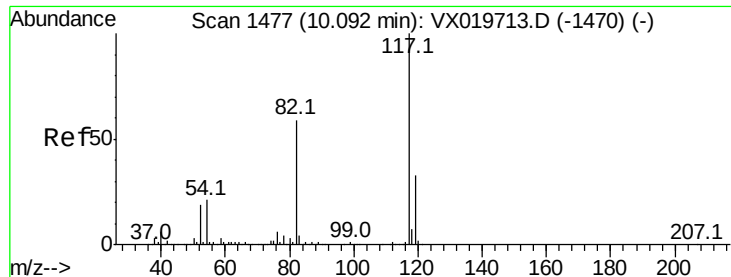
Ion Ratio Lower Upper

95 100

174 80.1 0.0 154.6

176 76.6 0.0 155.8

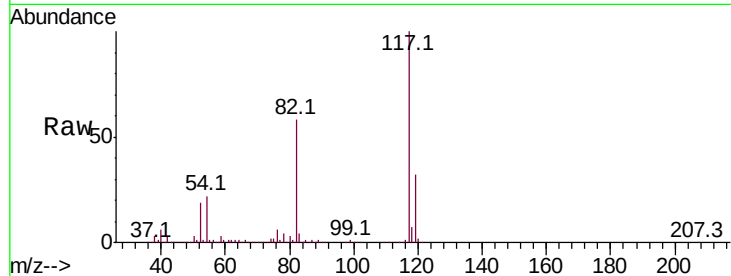




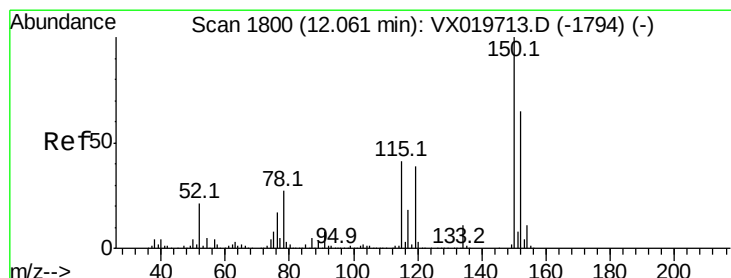
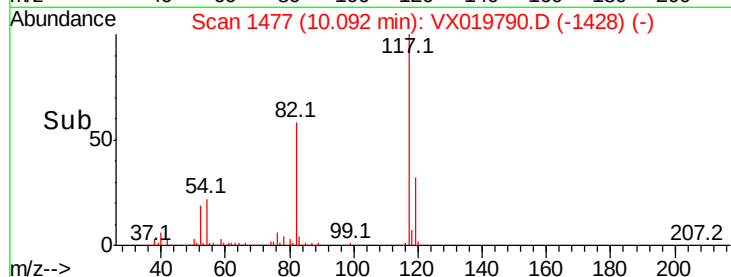
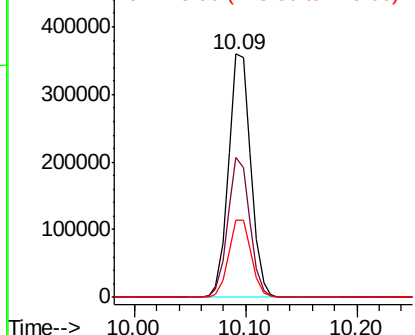
#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 10.09 min Scan# 1477
Delta R.T. -0.00 min
Lab File: VX019790.D
Acq: 09 Dec 2020 19:40

Instrument :
MSVOA_X
ClientSampleId :
5S2-B-BOTTOM

Tot Ion:117 Resp: 497862
Ion Ratio Lower Upper
117 100
82 57.7 47.4 71.2
119 31.6 26.6 39.8

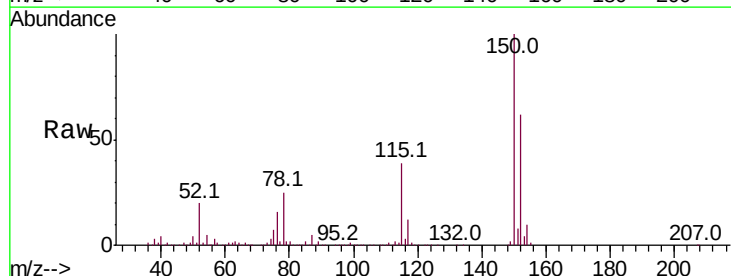


Abundance Ion 116.90 (116.60 to 117.60): V
Ion 82.00 (81.70 to 82.70): VX0
Ion 118.90 (118.60 to 119.60): V

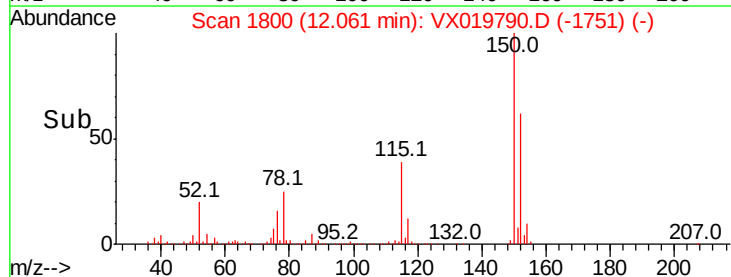
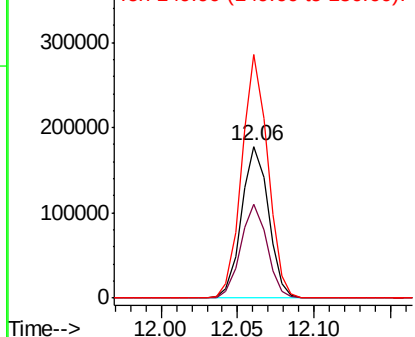


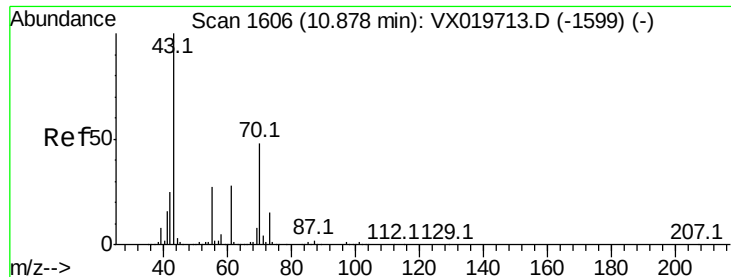
#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 12.06 min Scan# 1800
Delta R.T. -0.00 min
Lab File: VX019790.D
Acq: 09 Dec 2020 19:40

Tgt Ion:152 Resp: 217999
Ion Ratio Lower Upper
152 100
115 60.2 41.1 123.3
150 155.0 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





#74

N-amvl acetate

Concen: 0.207 ug/l

RT: 10.80 min Scan# 1594

Delta R.T. -0.07 min

Lab File: VX019790.D

Acq: 09 Dec 2020 19:40

Instrument :

MSVOA_X

ClientSampleId :

5S2-B-BOTTOM

Tot Ion: 43 Resp: 1235

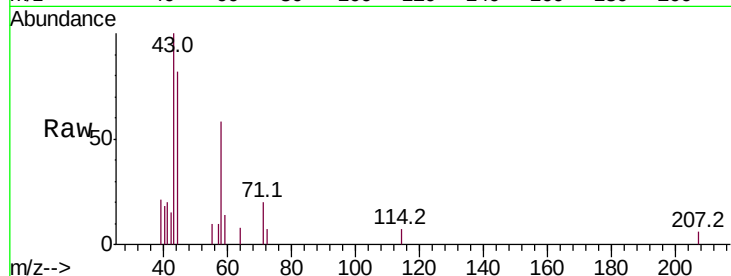
Ion Ratio Lower Upper

43 100

70 0.0 39.0 58.6#

55 10.0 21.5 32.3#

61 0.0 22.1 33.1#

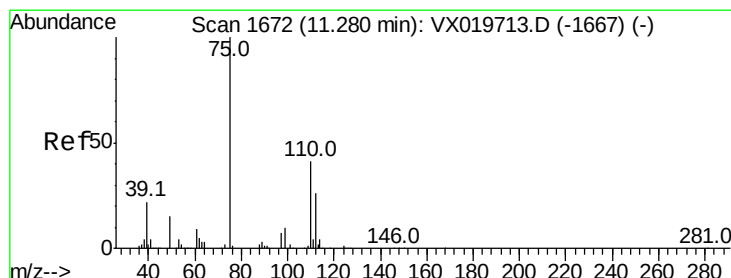
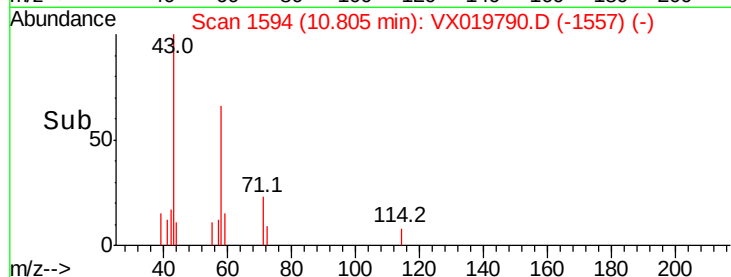
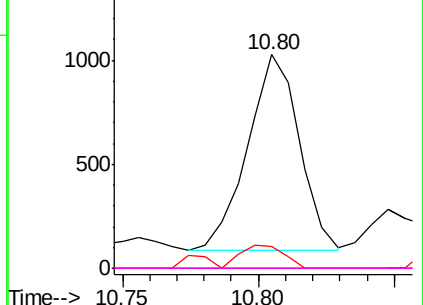


Abundance Ion 43.00 (42.70 to 43.70): VX0

Ion 70.00 (69.70 to 70.70): VX0

Ion 55.00 (54.70 to 55.70): VX0

Ion 61.00 (60.70 to 61.70): VX0



#76

1,2,3-Trichloropropane

Concen: 22.939 ug/l

RT: 11.12 min Scan# 1646

Delta R.T. -0.16 min

Lab File: VX019790.D

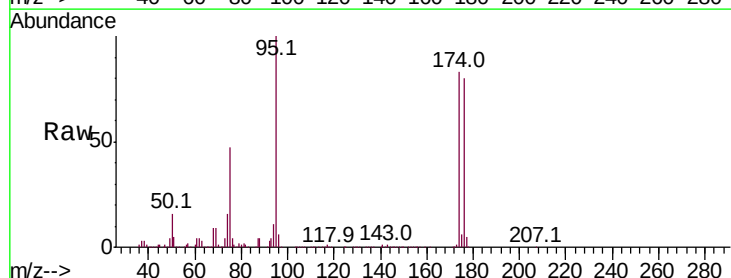
Acq: 09 Dec 2020 19:40

Tgt Ion: 75 Resp: 112155

Ion Ratio Lower Upper

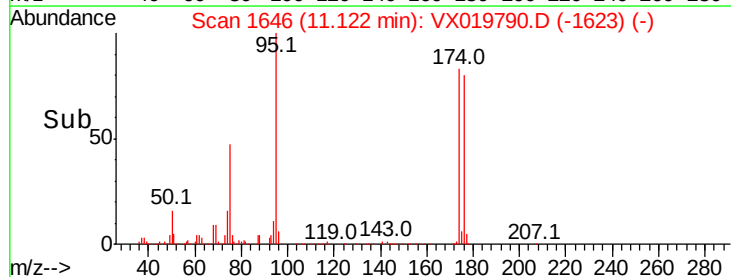
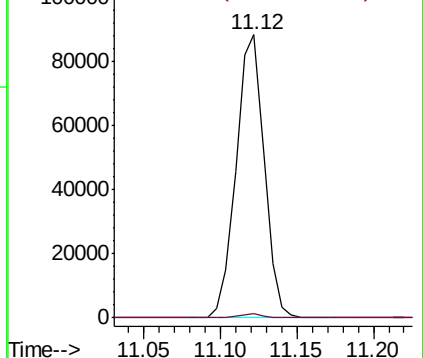
75 100

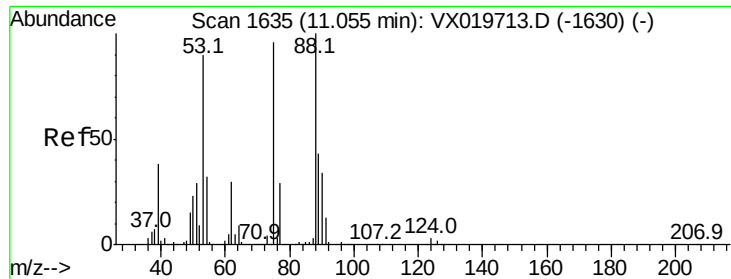
77 1.3 19.1 57.5#



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: 66.312 ug/l

RT: 11.12 min Scan# 1646

Delta R.T. 0.07 min

Lab File: VX019790.D

Acq: 09 Dec 2020 19:40

Instrument :

MSVOA_X

ClientSampleId :

5S2-B-BOTTOM

Tot Ion: 75 Resp: 112155

Ion Ratio Lower Upper

75 100

53 0.1 74.5 111.7#

89 0.0 37.9 56.9#

