

Data Path : Z:\VOASRV\HPCHEM1\MSVOA_X\DATA\VX121520\
 Data File : VX020041.D
 Acq On : 16 Dec 2020 03:25
 Operator : JC/MD
 Sample : L5088-04
 Misc : 5.0mL/MSVOA_X/WATER
 ALS Vial : 41 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :
 TR1-A-TOP

Quant Time: Dec 16 05:10:50 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	5.62	168	307512	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	6.83	114	510438	50.00	ug/l	0.00
63) Chlorobenzene-d5	10.10	117	475440	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.06	152	203354	50.00	ug/l	0.00

System Monitoring Compounds		R.T.	QIon	Response	Conc	Units	Dev(Min)
33) 1,2-Dichloroethane-d4		6.03	65	197004	48.74	ug/l	0.00
Spiked Amount	50.000	Range	61 - 141	Recovery	=	97.48%	
35) Dibromofluoromethane		5.46	113	159046	48.21	ug/l	0.00
Spiked Amount	50.000	Range	69 - 133	Recovery	=	96.42%	
50) Toluene-d8		8.70	98	634694	50.40	ug/l	0.00
Spiked Amount	50.000	Range	65 - 126	Recovery	=	100.80%	
62) 4-Bromofluorobenzene		11.12	95	220501	46.00	ug/l	0.00
Spiked Amount	50.000	Range	58 - 135	Recovery	=	92.00%	

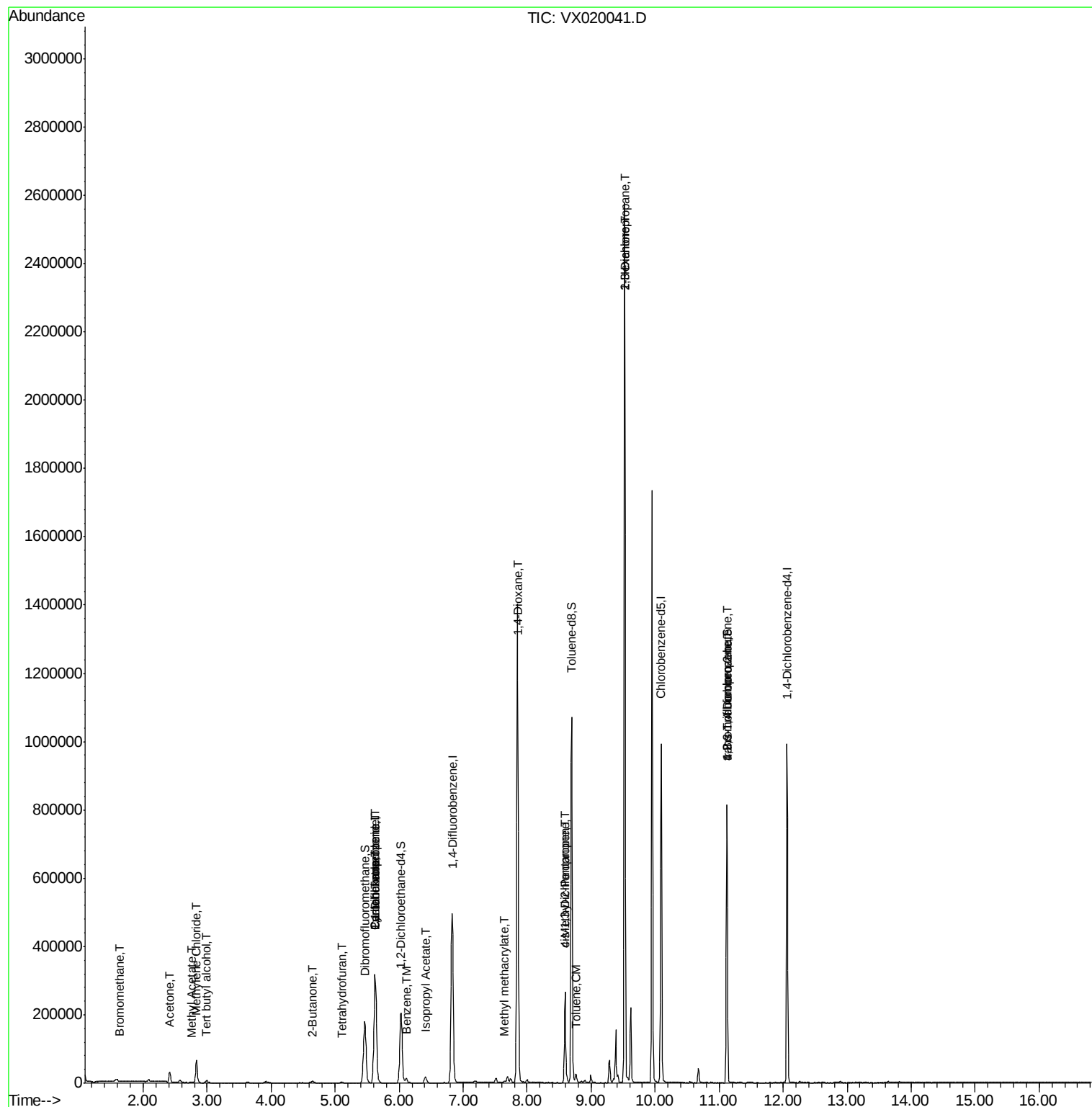
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
5) Bromomethane	1.64	94	530	0.457	ug/l	82
11) Tert butyl alcohol	2.99	59	4323	2.617	ug/l #	76
16) Acetone	2.42	43	31501	20.736	ug/l	98
18) Methyl Acetate	2.75	43	2184	0.587	ug/l	96
20) Methylene Chloride	2.83	84	31481	7.879	ug/l	94
25) 2-Butanone	4.65	43	4535	1.943	ug/l	93
29) Tetrahydrofuran	5.10	42	1225	0.815	ug/l #	45
31) Cyclohexane	5.63	56	6207	1.235	ug/l #	1
36) 1,1-Dichloropropene	5.63	75	23580	5.112	ug/l #	48
38) Carbon Tetrachloride	5.62	117	30326	6.714	ug/l #	17
40) Benzene	6.12	78	14230	1.010	ug/l	96
43) Isopropyl Acetate	6.41	43	23920	3.159	ug/l	97
48) Methyl methacrylate	7.65	41	7723	2.074	ug/l #	10
49) 1,4-Dioxane	7.86	88	189	2.095	ug/l #	1
51) 4-Methyl-2-Pentanone	8.59	43	83559	18.076	ug/l #	48
52) Toluene	8.76	92	8912	1.011	ug/l	98
54) cis-1,3-Dichloropropene	8.59	75	43113	7.578	ug/l #	61
57) 1,3-Dichloropropane	9.52	76	23438	3.865	ug/l #	43
59) 2-Hexanone	9.52	43	276581	77.189	ug/l #	46
76) 1,2,3-Trichloropropane	11.12	75	105706	23.177	ug/l #	39
81) trans-1,4-Dichloro-2-buten	11.12	75	105706	67.000	ug/l #	12

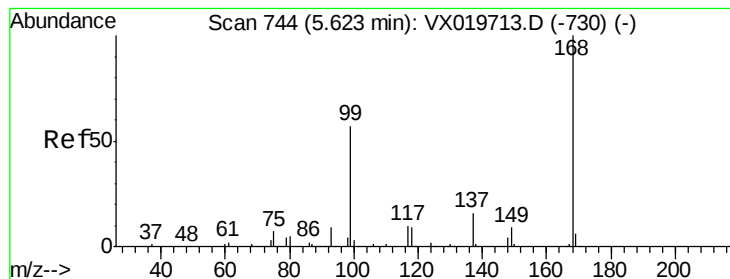
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Data Path : Z:\V0ASRV\HPCHEM1\MSVOA_X\DATA\VX121520\
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Acq On : 16 Dec 2020 03:25
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Instrument :
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ClientSampleId :
TR1-A-TOP

Quant Time: Dec 16 05:10:50 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: 5.62 min Scan# 744

Delta R.T. -0.00 min

Lab File: VX020041.D

Acq: 16 Dec 2020 03:25

Instrument :

MSVOA_X

ClientSampleId :

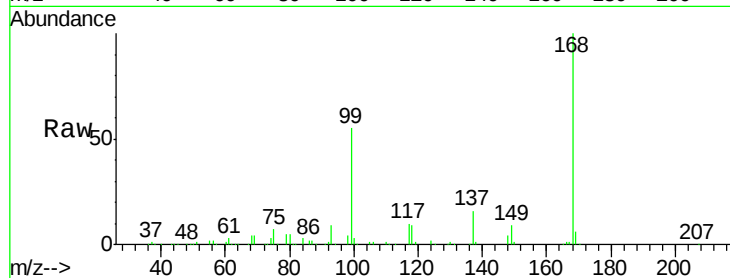
TR1-A-TOP

Tgt Ion: 168 Resp: 307512

Ion Ratio Lower Upper

168 100

99 55.1 45.8 68.6



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VX0

5.62

120000

100000

80000

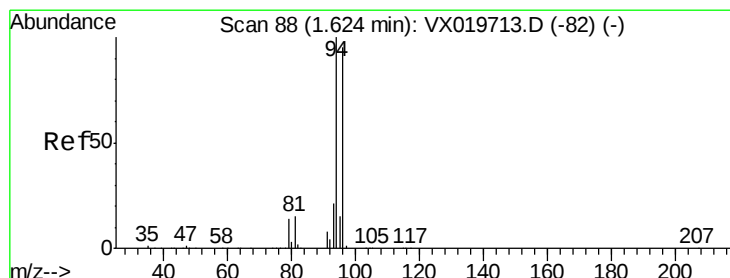
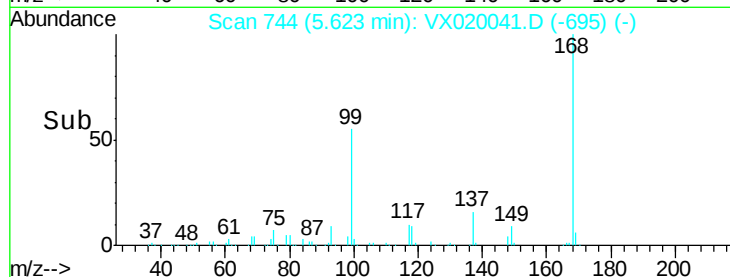
60000

40000

20000

0

Time-->



#5

Bromomethane

Concen: 0.457 ug/l

RT: 1.64 min Scan# 90

Delta R.T. 0.01 min

Lab File: VX020041.D

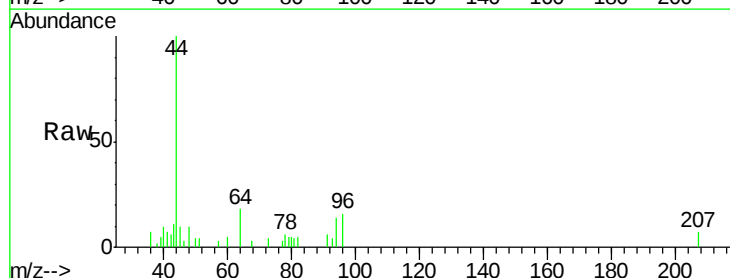
Acq: 16 Dec 2020 03:25

Tgt Ion: 94 Resp: 530

Ion Ratio Lower Upper

94 100

96 112.7 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

400

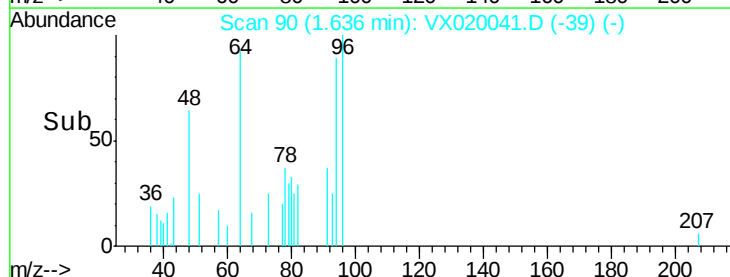
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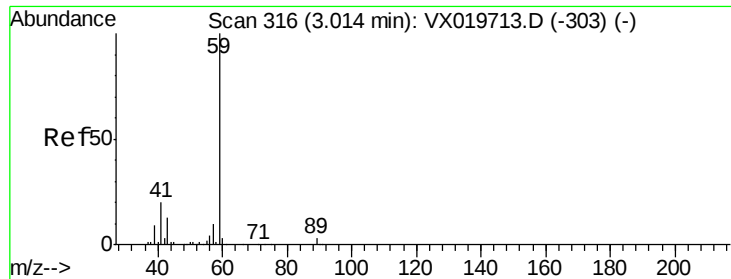
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100

0

Time-->

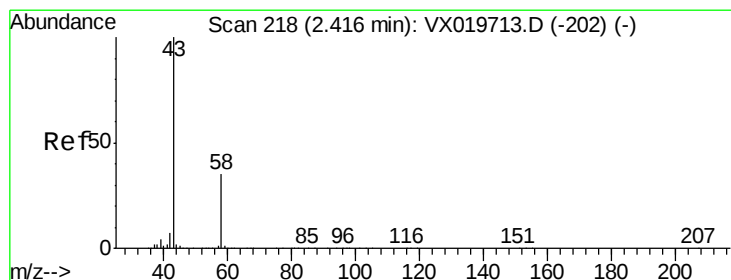
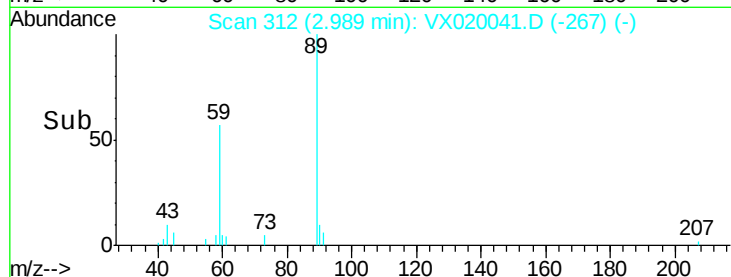
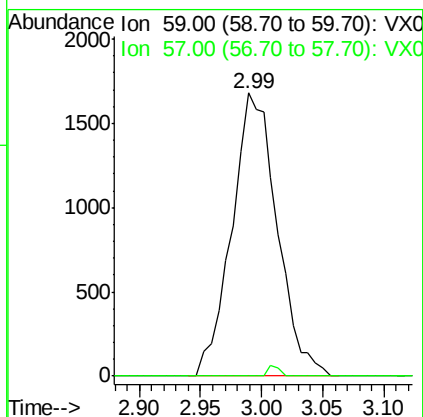
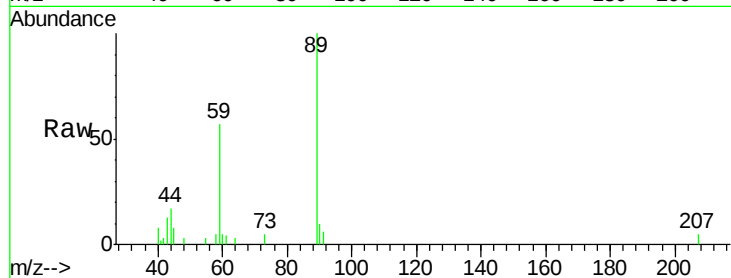




#11
Tert butyl alcohol
Concen: 2.617 ug/l
RT: 2.99 min Scan# 312
Delta R.T. -0.02 min
Lab File: VX020041.D
Acq: 16 Dec 2020 03:25

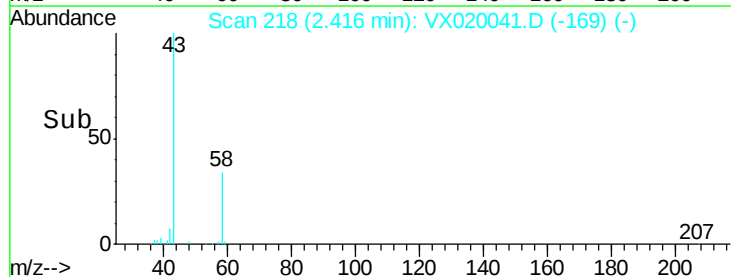
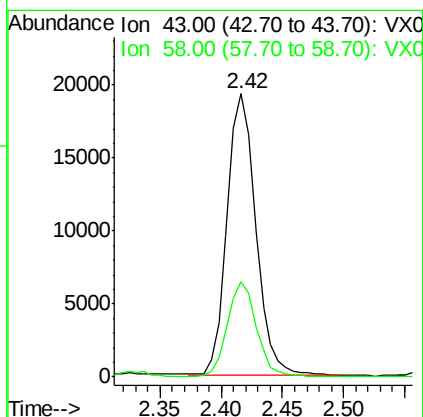
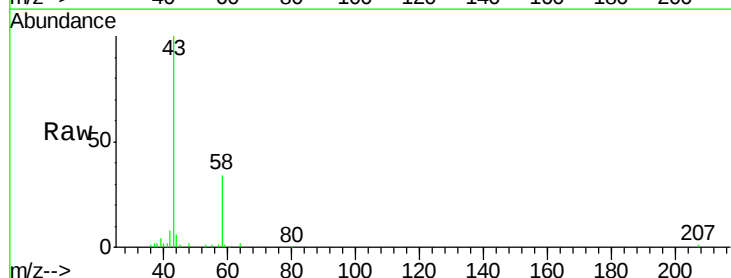
Instrument :
MSVOA_X
ClientSampleId :
TR1-A-TOP

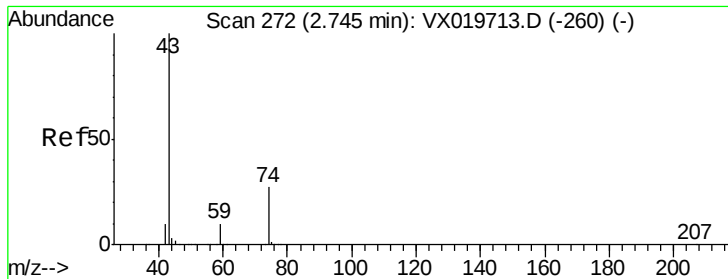
Tgt Ion: 59 Resp: 4323
Ion Ratio Lower Upper
59 100
57 1.0 7.8 11.8#



#16
Acetone
Concen: 20.736 ug/l
RT: 2.42 min Scan# 218
Delta R.T. -0.00 min
Lab File: VX020041.D
Acq: 16 Dec 2020 03:25

Tgt Ion: 43 Resp: 31501
Ion Ratio Lower Upper
43 100
58 33.7 27.8 41.8

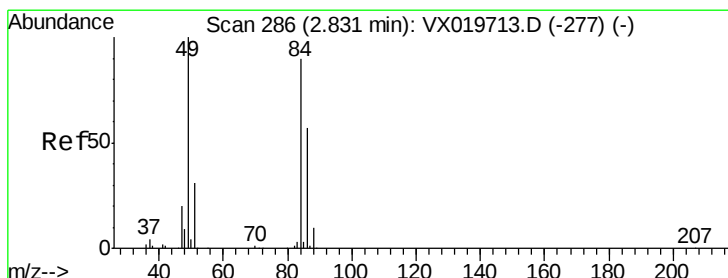
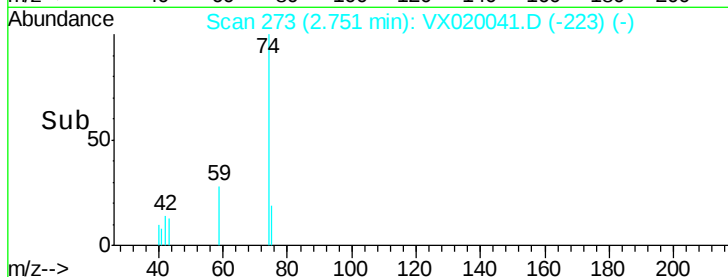
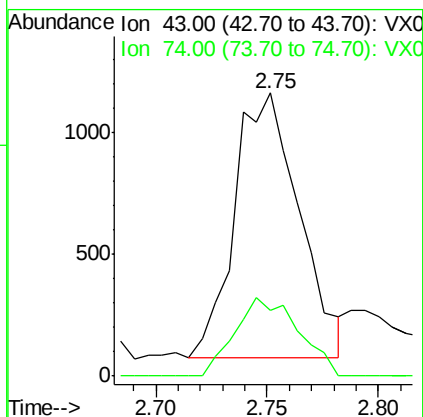
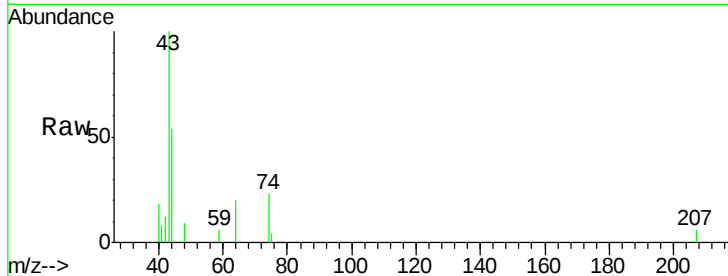




#18
Methyl Acetate
Concen: 0.587 ug/l
RT: 2.75 min Scan# 273
Delta R.T. 0.01 min
Lab File: VX020041.D
Acq: 16 Dec 2020 03:25

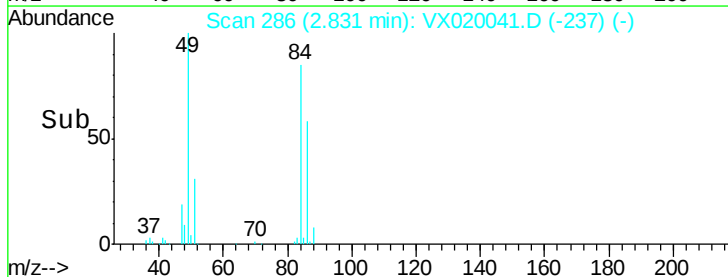
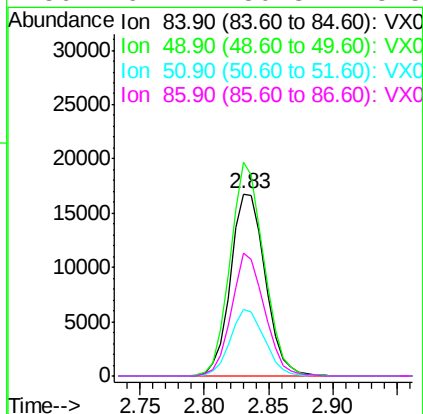
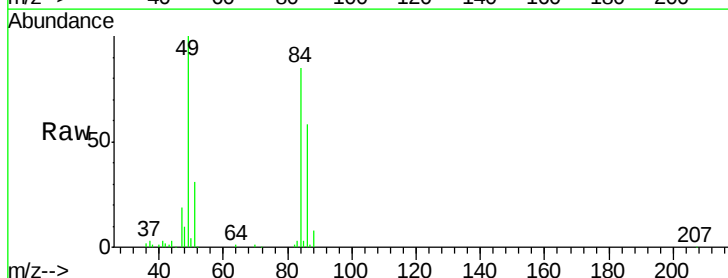
Instrument :
MSVOA_X
ClientSampled :
TR1-A-TOP

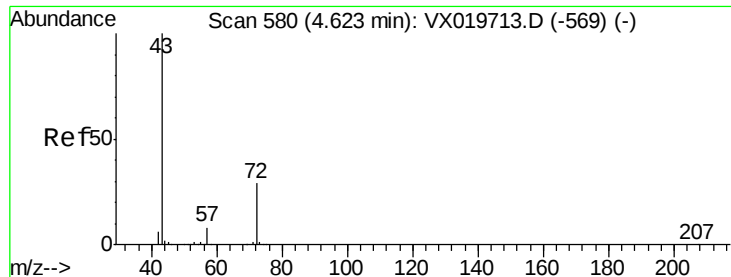
Tgt Ion: 43 Resp: 2184
Ion Ratio Lower Upper
43 100
74 29.4 21.9 32.9



#20
Methylene Chloride
Concen: 7.879 ug/l
RT: 2.83 min Scan# 286
Delta R.T. 0.00 min
Lab File: VX020041.D
Acq: 16 Dec 2020 03:25

Tgt Ion: 84 Resp: 31481
Ion Ratio Lower Upper
84 100
49 117.5 88.6 132.8
51 36.5 27.0 40.6
86 67.7 50.3 75.5

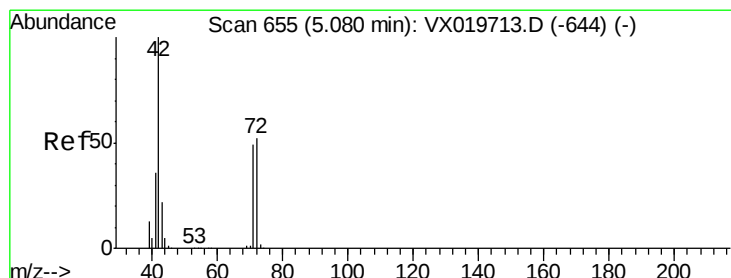
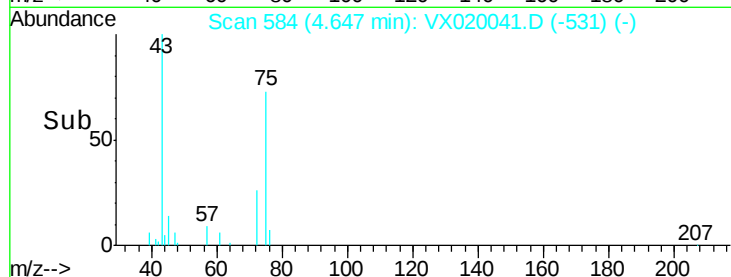
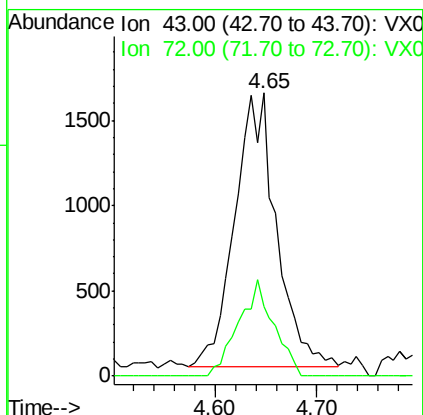
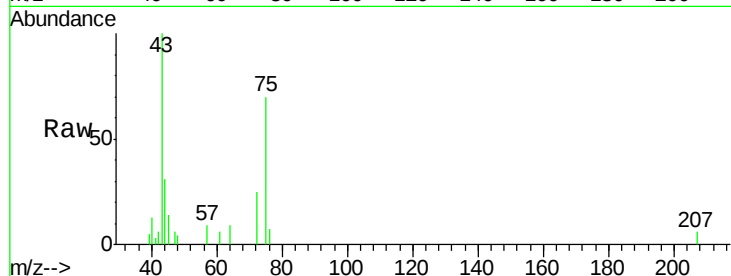




#25
2-Butanone
Concen: 1.943 ug/l
RT: 4.65 min Scan# 584
Delta R.T. 0.02 min
Lab File: VX020041.D
Acq: 16 Dec 2020 03:25

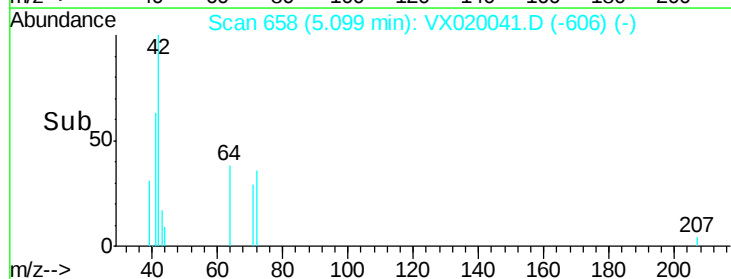
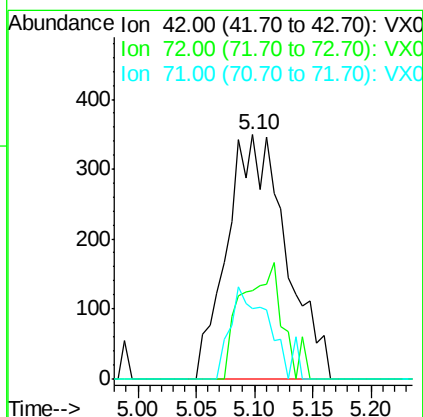
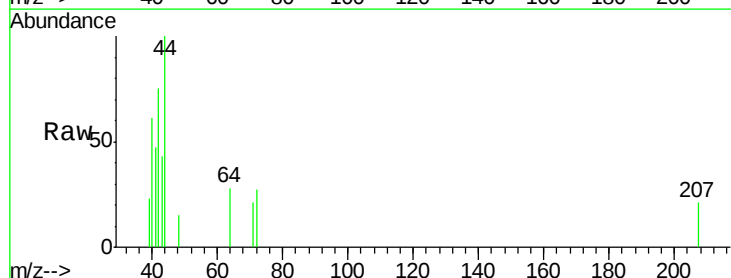
Instrument :
MSVOA_X
ClientSampleId :
TR1-A-TOP

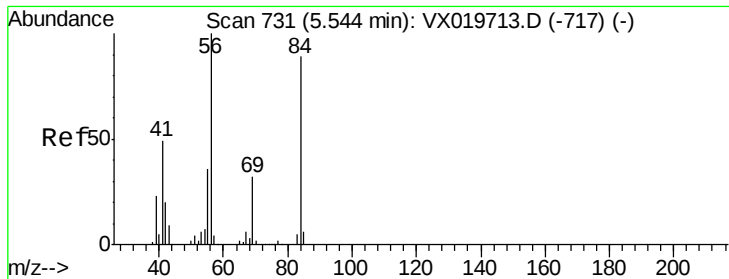
Tgt Ion: 43 Resp: 4535
Ion Ratio Lower Upper
43 100
72 25.6 23.7 35.5



#29
Tetrahydrofuran
Concen: 0.815 ug/l
RT: 5.10 min Scan# 658
Delta R.T. 0.02 min
Lab File: VX020041.D
Acq: 16 Dec 2020 03:25

Tgt Ion: 42 Resp: 1225
Ion Ratio Lower Upper
42 100
72 0.0 41.7 62.5#
71 25.1 38.4 57.6#

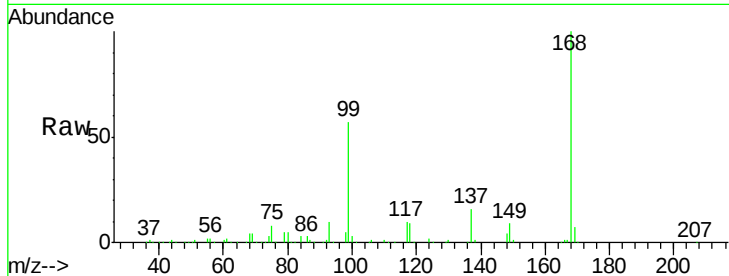




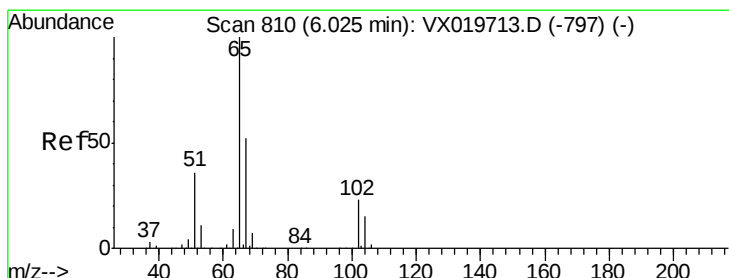
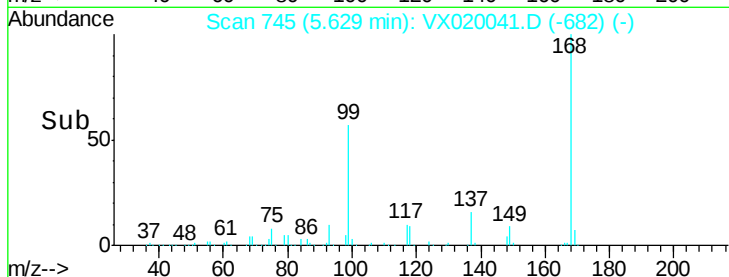
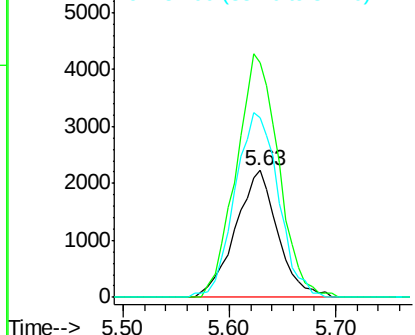
#31
Cyclohexane
Concen: 1.235 ug/l
RT: 5.63 min Scan# 745
Delta R.T. 0.09 min
Lab File: VX020041.D
Acq: 16 Dec 2020 03:25

Instrument :
MSVOA_X
ClientSampled :
TR1-A-TOP

Tgt Ion: 56 Resp: 6207
Ion Ratio Lower Upper
56 100
69 185.3 25.3 37.9#
84 142.1 71.4 107.0#

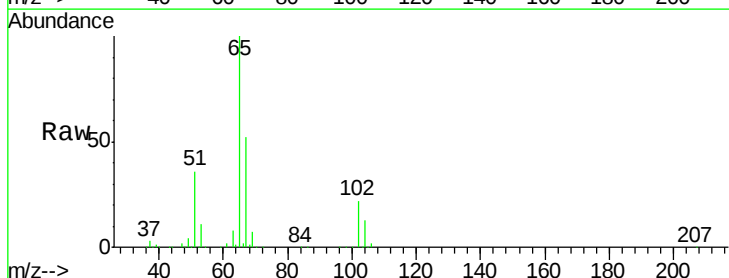


Abundance Ion 56.00 (55.70 to 56.70): VX0
Ion 69.00 (68.70 to 69.70): VX0
Ion 84.00 (83.70 to 84.70): VX0

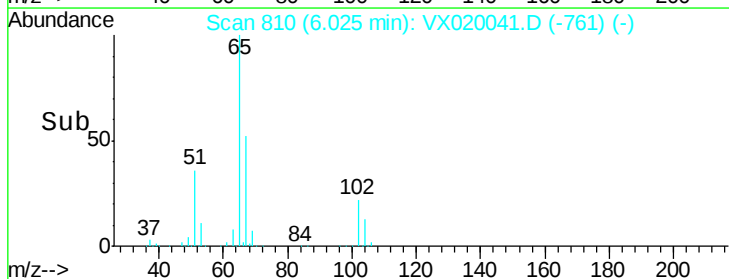
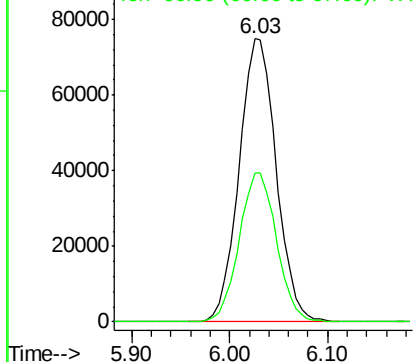


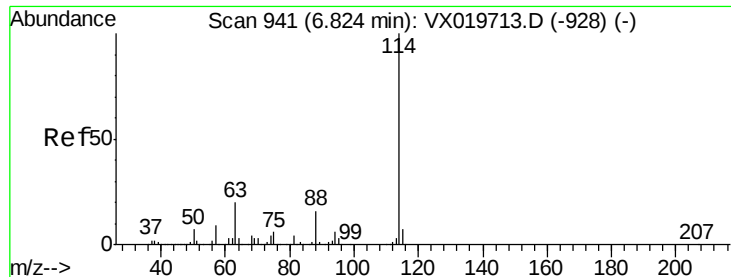
#33
1,2-Dichloroethane-d4
Concen: 48.744 ug/l
RT: 6.03 min Scan# 810
Delta R.T. -0.00 min
Lab File: VX020041.D
Acq: 16 Dec 2020 03:25

Tgt Ion: 65 Resp: 197004
Ion Ratio Lower Upper
65 100
67 53.1 0.0 105.4



Abundance Ion 64.90 (64.60 to 65.60): VX0
Ion 66.90 (66.60 to 67.60): VX0

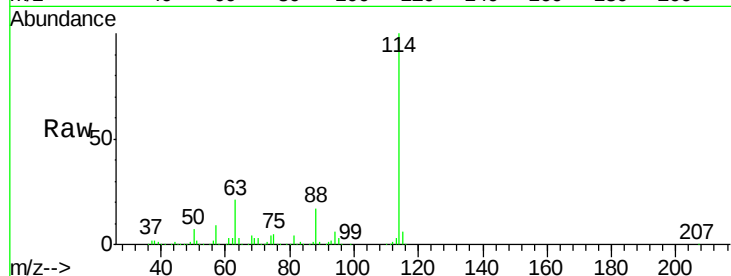




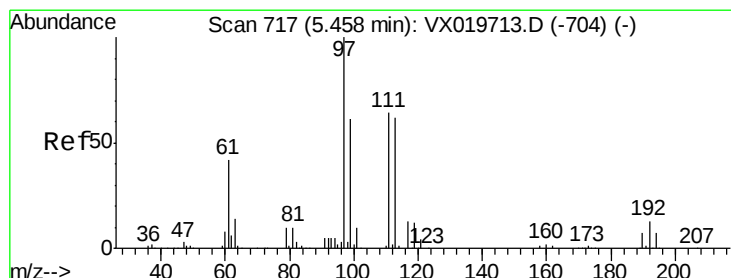
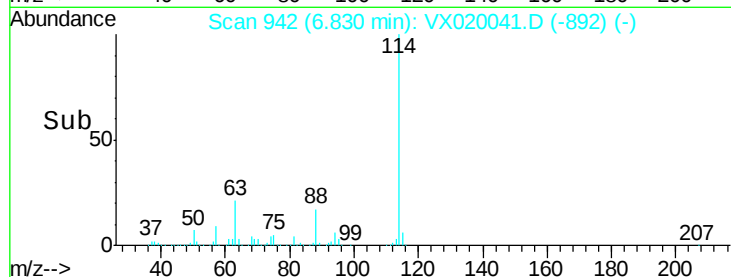
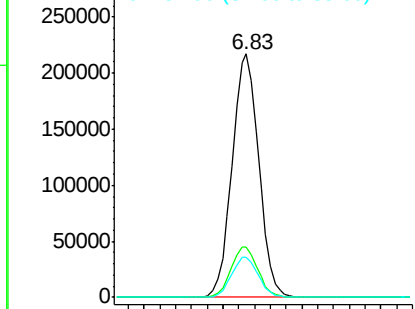
#34
 1,4-Difluorobenzene
 Concen: 50.000 ug/l
 RT: 6.83 min Scan# 942
 Delta R.T. 0.01 min
 Lab File: VX020041.D
 Acq: 16 Dec 2020 03:25

Instrument :
 MSVOA_X
 ClientSampleID :
 TR1-A-TOP

Tgt Ion	Ratio	Lower	Upper
114	100		
63	20.8	0.0	40.8
88	16.6	0.0	32.8

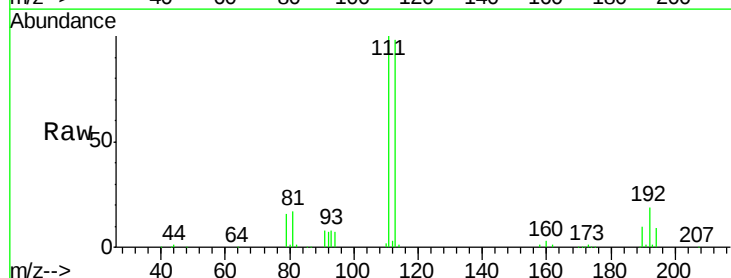


Abundance Ion 113.90 (113.60 to 114.60): V
 Ion 63.00 (62.70 to 63.70): VX0
 Ion 87.90 (87.60 to 88.60): VX0

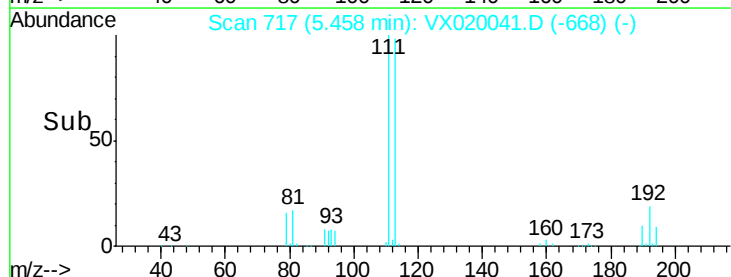
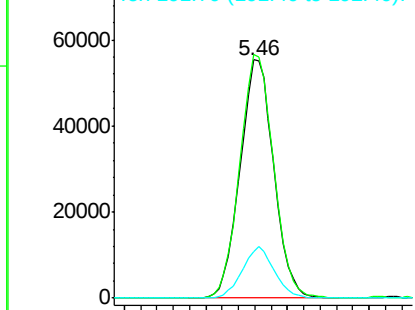


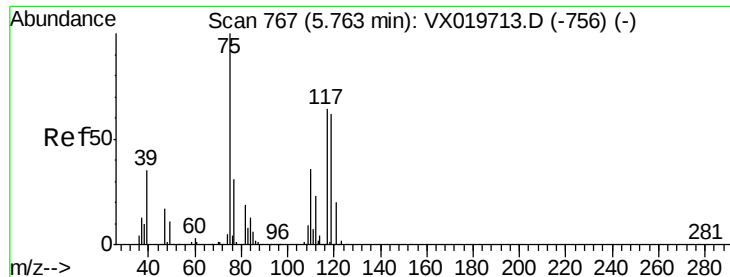
#35
 Dibromofluoromethane
 Concen: 48.212 ug/l
 RT: 5.46 min Scan# 717
 Delta R.T. -0.00 min
 Lab File: VX020041.D
 Acq: 16 Dec 2020 03:25

Tgt Ion	Ratio	Lower	Upper
113	100		
111	102.1	81.9	122.9
192	20.5	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: 5.112 ug/l

RT: 5.63 min Scan# 745

Delta R.T. -0.13 min

Lab File: VX020041.D

Acq: 16 Dec 2020 03:25

Instrument :

MSVOA_X

ClientSampled :

TR1-A-TOP

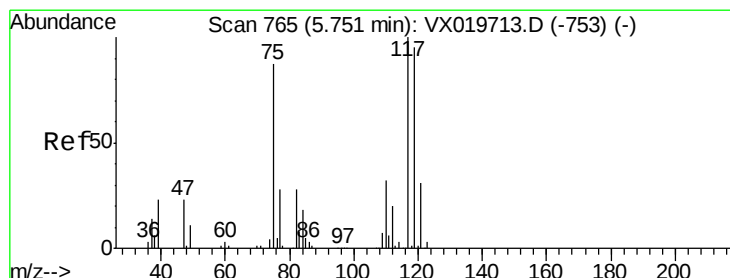
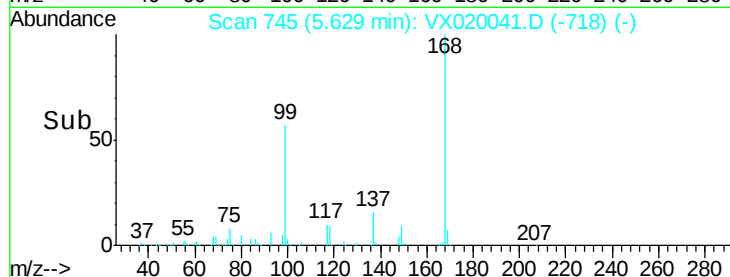
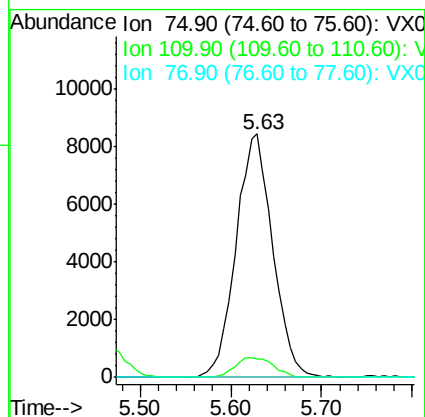
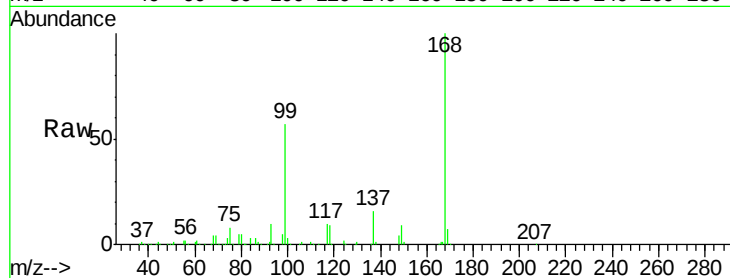
Tgt Ion: 75 Resp: 23580

Ion Ratio Lower Upper

75 100

110 8.4 18.1 54.4#

77 0.0 25.3 37.9#



#38

Carbon Tetrachloride

Concen: 6.714 ug/l

RT: 5.62 min Scan# 744

Delta R.T. -0.13 min

Lab File: VX020041.D

Acq: 16 Dec 2020 03:25

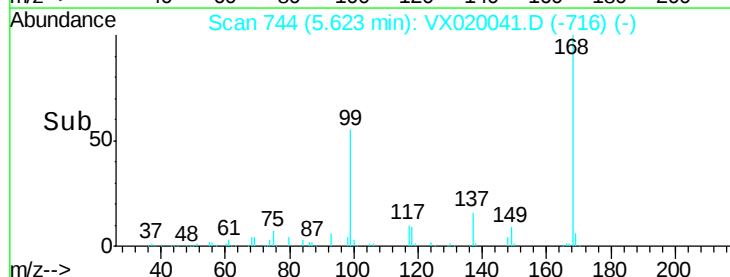
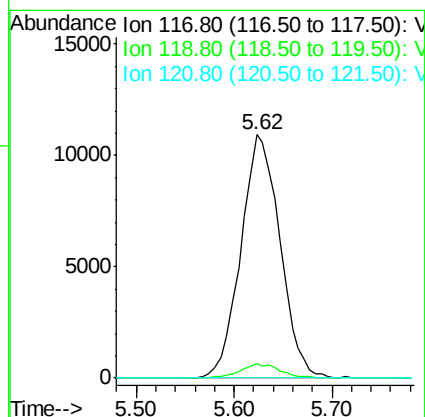
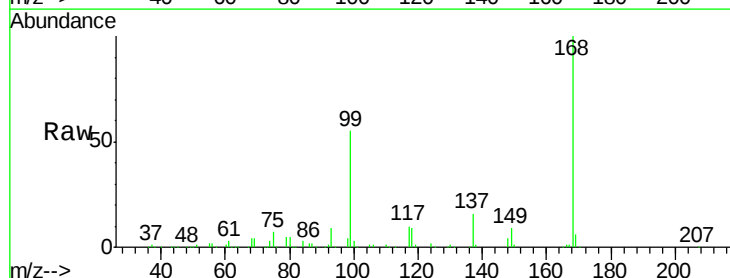
Tgt Ion: 117 Resp: 30326

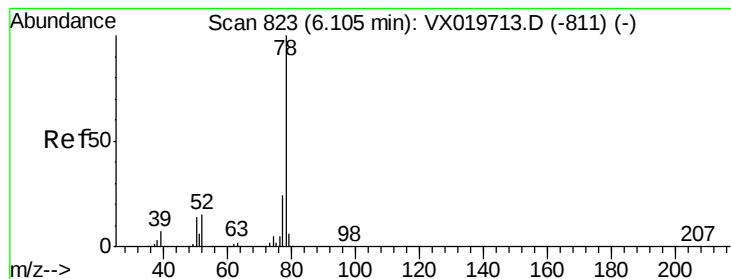
Ion Ratio Lower Upper

117 100

119 6.1 76.2 114.2#

121 0.0 24.8 37.2#





#40

Benzene

Concen: 1.010 ug/l

RT: 6.12 min Scan# 825

Delta R.T. 0.01 min

Lab File: VX020041.D

Acq: 16 Dec 2020 03:25

Instrument :

MSVOA_X

ClientSampleId :

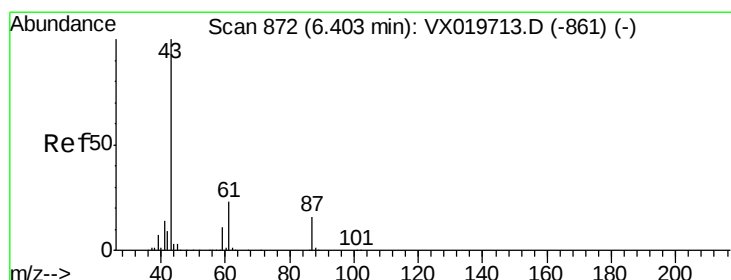
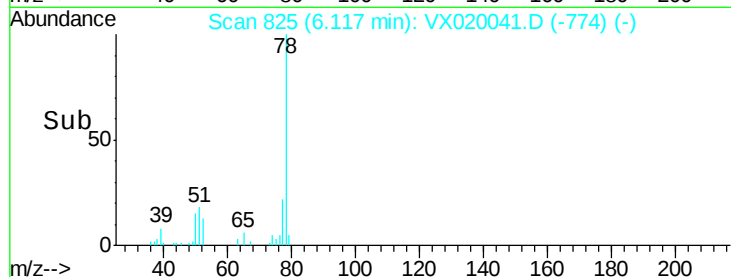
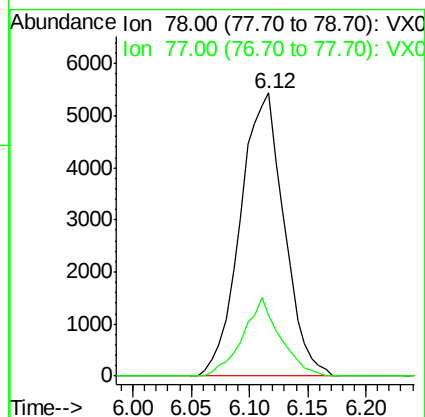
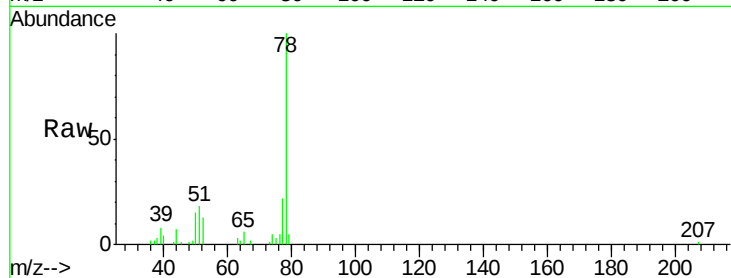
TR1-A-TOP

Tgt Ion: 78 Resp: 14230

Ion Ratio Lower Upper

78 100

77 21.5 18.9 28.3



#43

Isopropyl Acetate

Concen: 3.159 ug/l

RT: 6.41 min Scan# 873

Delta R.T. 0.01 min

Lab File: VX020041.D

Acq: 16 Dec 2020 03:25

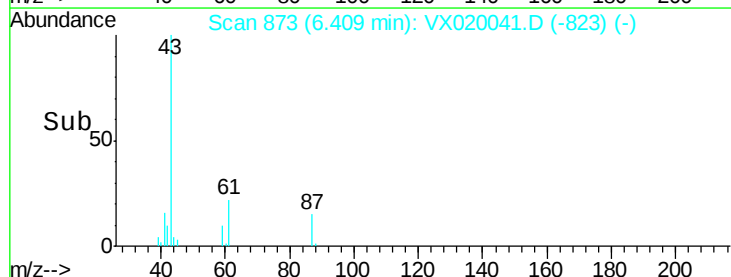
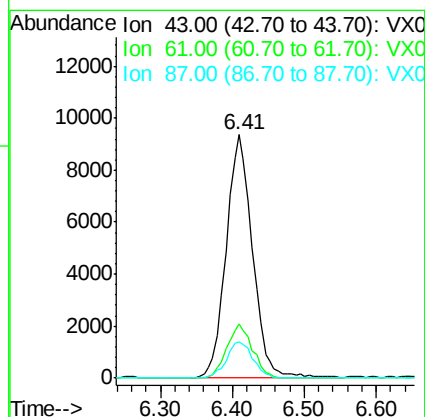
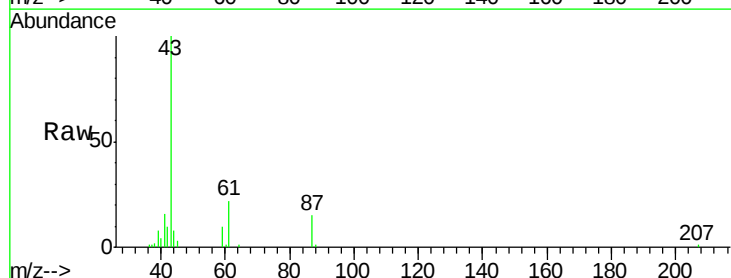
Tgt Ion: 43 Resp: 23920

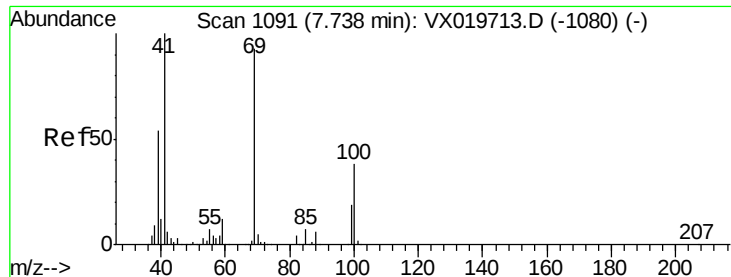
Ion Ratio Lower Upper

43 100

61 21.3 18.2 27.4

87 14.7 12.5 18.7

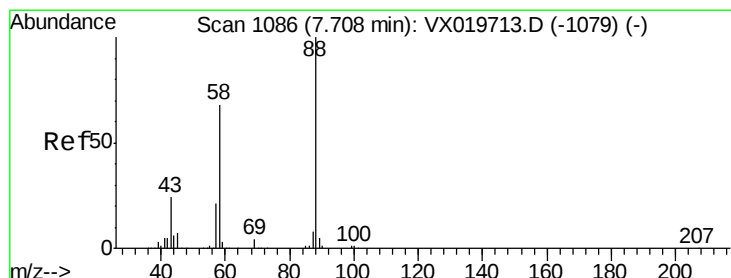
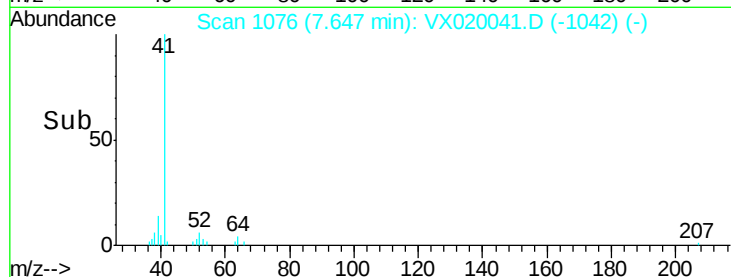
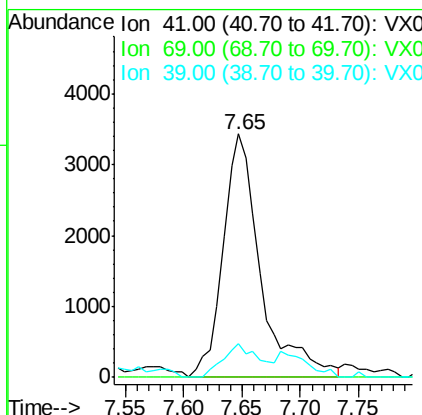
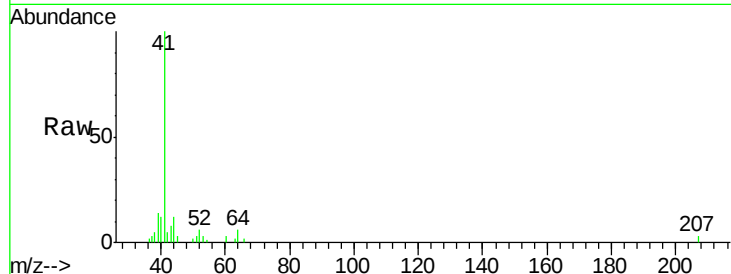




#48
Methyl methacrylate
Concen: 2.074 ug/l
RT: 7.65 min Scan# 1076
Delta R.T. -0.09 min
Lab File: VX020041.D
Acq: 16 Dec 2020 03:25

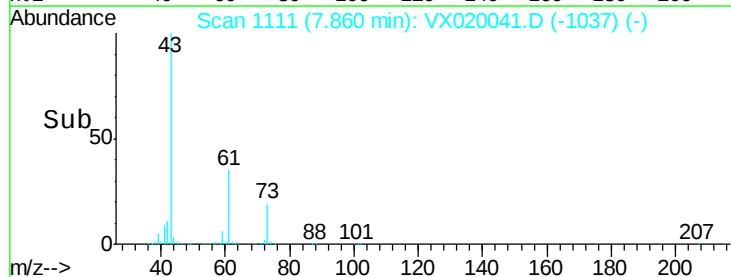
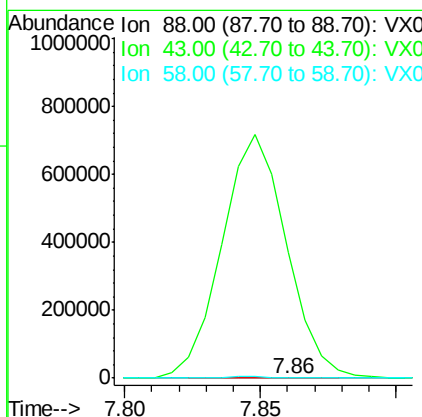
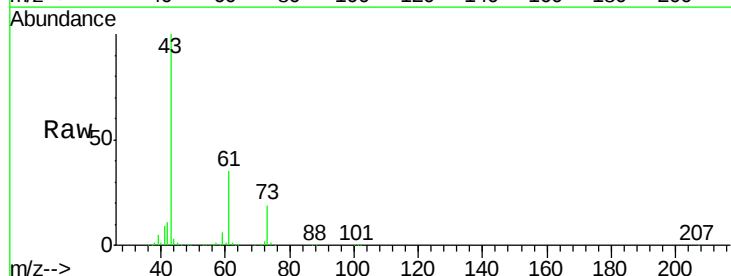
Instrument :
MSVOA_X
ClientSampleId :
TR1-A-TOP

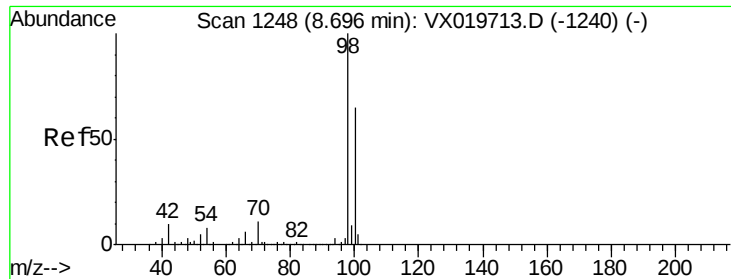
Tgt Ion: 41 Resp: 7723
Ion Ratio Lower Upper
41 100
69 0.0 76.0 114.0#
39 0.0 44.6 67.0#



#49
1,4-Dioxane
Concen: 2.095 ug/l
RT: 7.86 min Scan# 1111
Delta R.T. 0.15 min
Lab File: VX020041.D
Acq: 16 Dec 2020 03:25

Tgt Ion: 88 Resp: 189
Ion Ratio Lower Upper
88 100
43 629661.9 23.2 34.8#
58 3368.8 55.0 82.4#

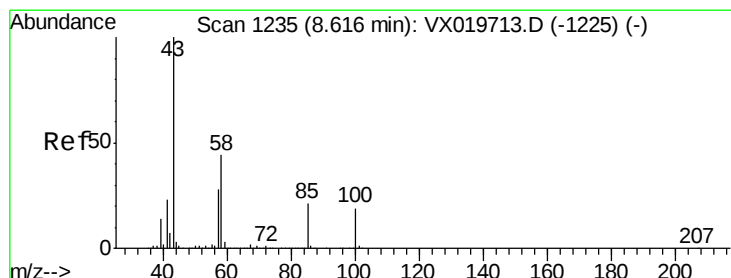
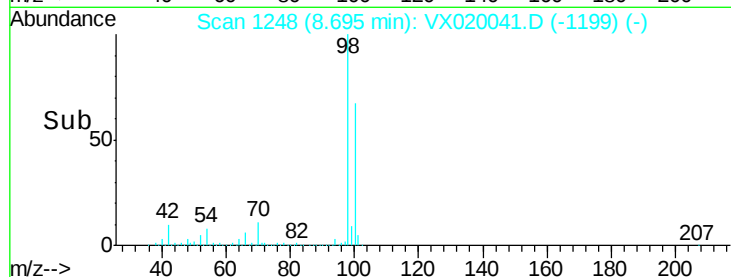
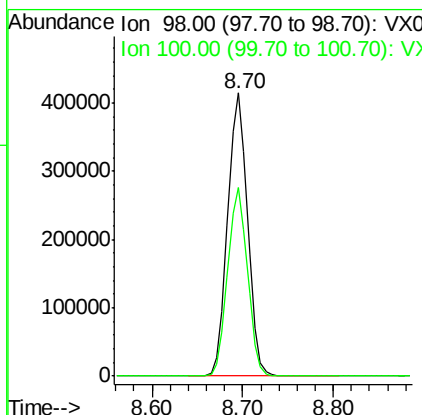
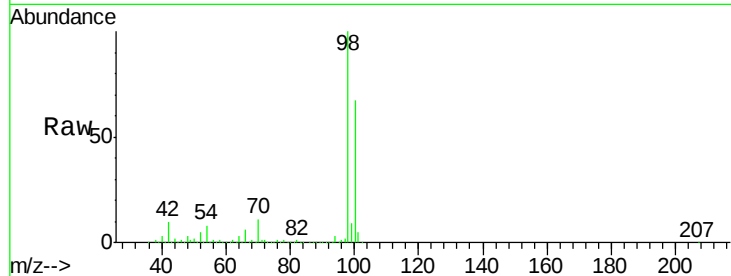




#50
Toluene-d8
Concen: 50.395 ug/l
RT: 8.70 min Scan# 1248
Delta R.T. -0.00 min
Lab File: VX020041.D
Acq: 16 Dec 2020 03:25

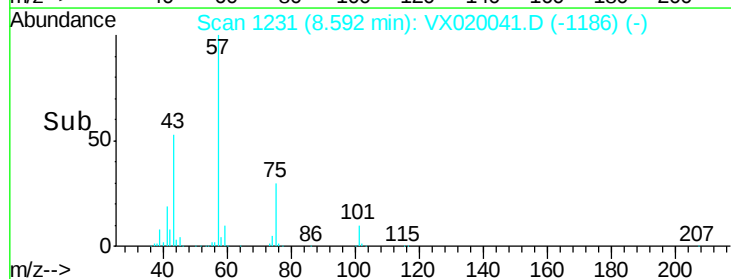
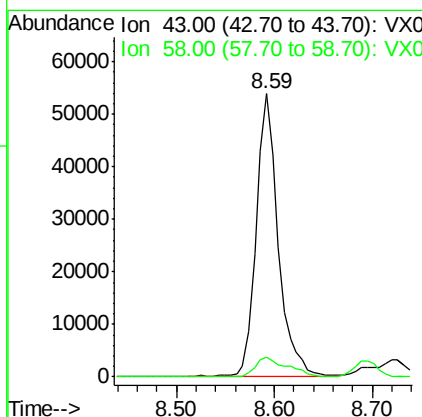
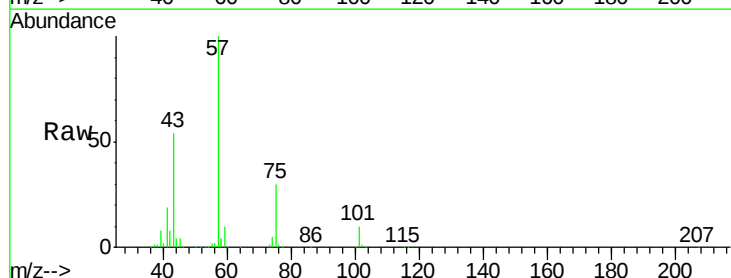
Instrument :
MSVOA_X
ClientSampleId :
TR1-A-TOP

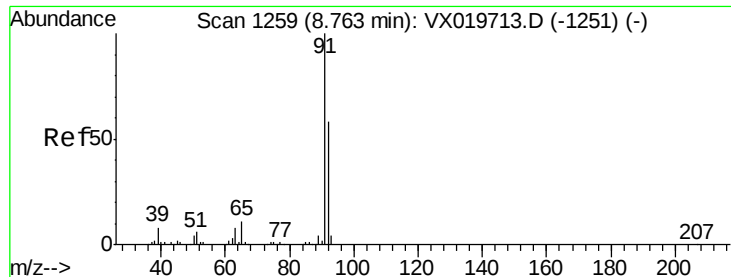
Tgt Ion: 98 Resp: 634694
Ion Ratio Lower Upper
98 100
100 66.1 51.9 77.9



#51
4-Methyl-2-Pentanone
Concen: 18.076 ug/l
RT: 8.59 min Scan# 1231
Delta R.T. -0.02 min
Lab File: VX020041.D
Acq: 16 Dec 2020 03:25

Tgt Ion: 43 Resp: 83559
Ion Ratio Lower Upper
43 100
58 10.2 35.4 53.0#





#52

Toluene

Concen: 1.011 ug/l

RT: 8.76 min Scan# 1259

Delta R.T. -0.00 min

Lab File: VX020041.D

Acq: 16 Dec 2020 03:25

Instrument :

MSVOA_X

ClientSampleId :

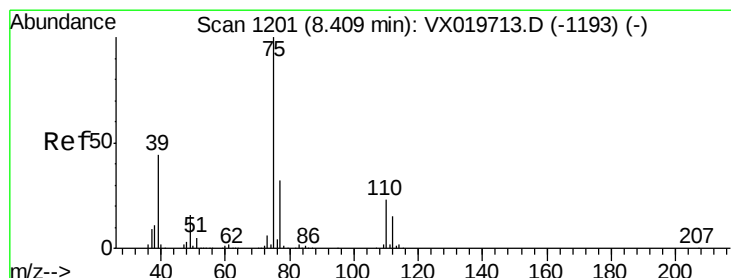
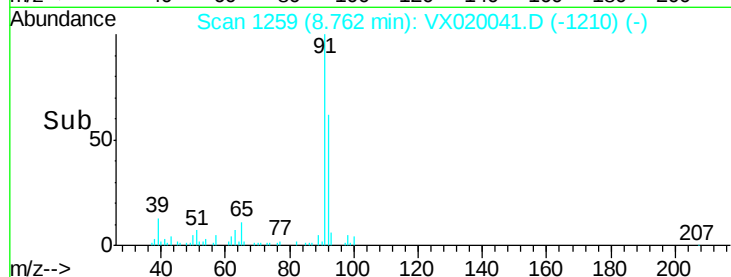
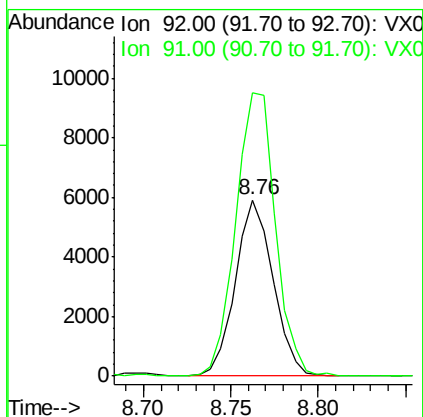
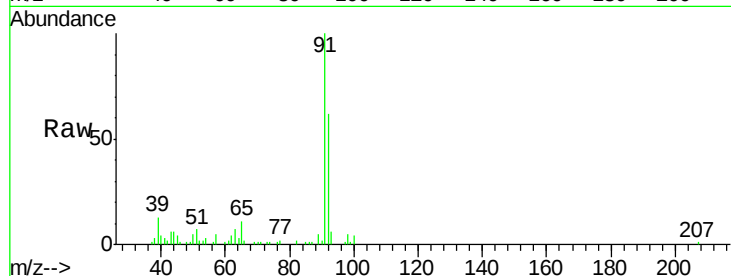
TR1-A-TOP

Tgt Ion: 92 Resp: 8912

Ion Ratio Lower Upper

92 100

91 168.6 137.1 205.7



#54

cis-1,3-Dichloropropene

Concen: 7.578 ug/l

RT: 8.59 min Scan# 1231

Delta R.T. 0.18 min

Lab File: VX020041.D

Acq: 16 Dec 2020 03:25

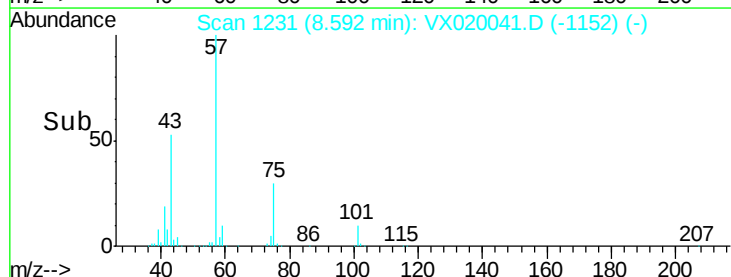
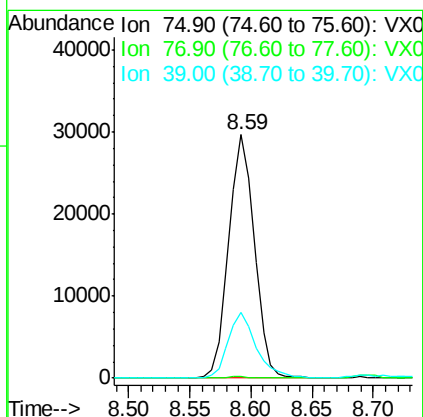
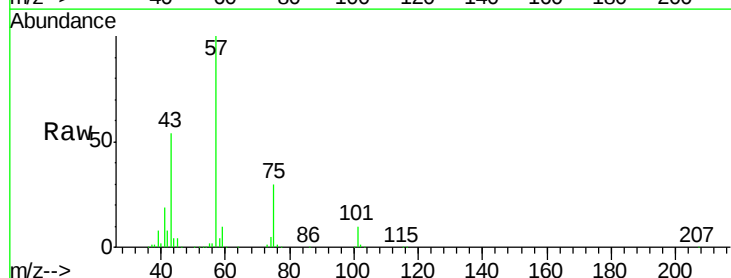
Tgt Ion: 75 Resp: 43113

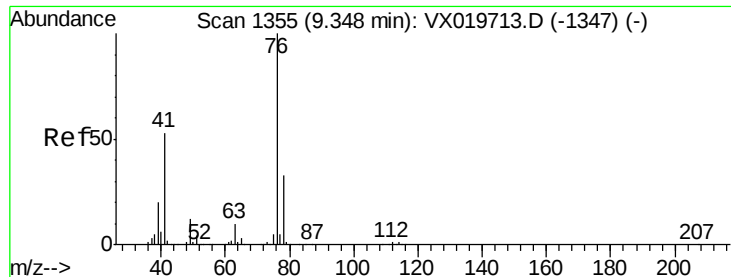
Ion Ratio Lower Upper

75 100

77 0.5 25.7 38.5#

39 27.0 35.1 52.7#





#57

1,3-Dichloropropane

Concen: 3.865 ug/l

RT: 9.52 min Scan# 1384

Delta R.T. 0.18 min

Lab File: VX020041.D

Acq: 16 Dec 2020 03:25

Instrument :

MSVOA_X

ClientSampleId :

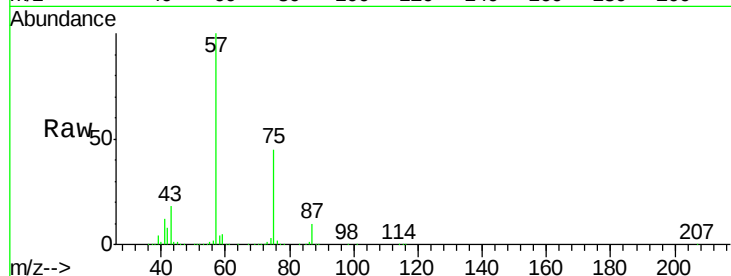
TR1-A-TOP

Tgt Ion: 76 Resp: 23438

Ion Ratio Lower Upper

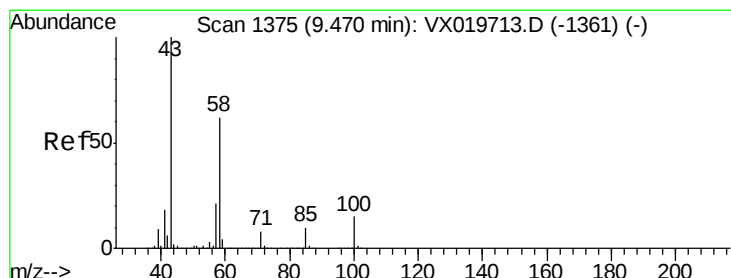
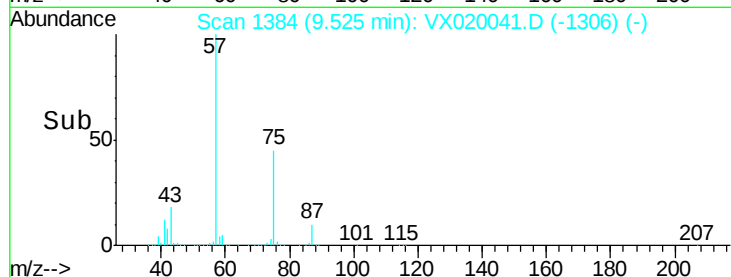
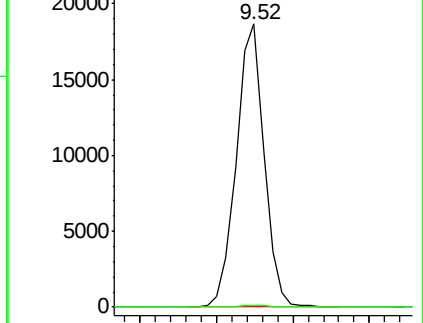
76 100

78 0.5 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: 77.189 ug/l

RT: 9.52 min Scan# 1384

Delta R.T. 0.05 min

Lab File: VX020041.D

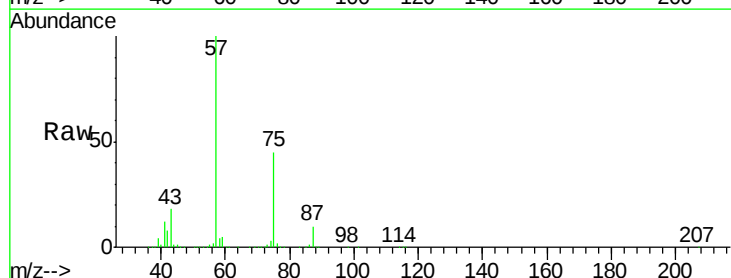
Acq: 16 Dec 2020 03:25

Tgt Ion: 43 Resp: 276581

Ion Ratio Lower Upper

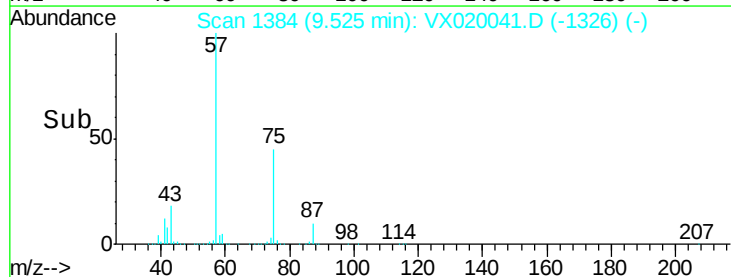
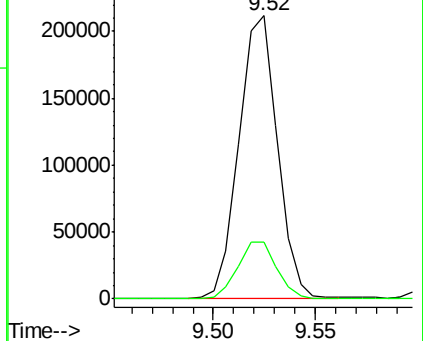
43 100

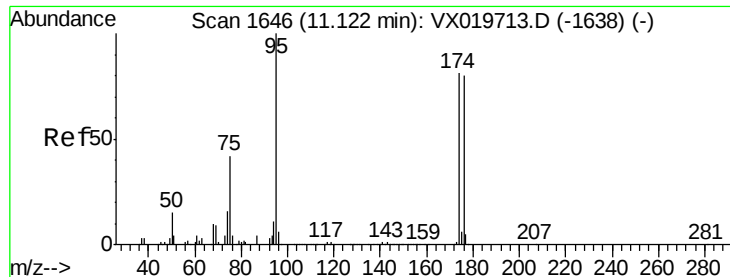
58 20.8 30.9 92.8#



Abundance Ion 43.00 (42.70 to 43.70): VX0

Ion 58.00 (57.70 to 58.70): VX0





#62

4-Bromofluorobenzene

Concen: 46.000 ug/l

RT: 11.12 min Scan# 1646

Delta R.T. -0.00 min

Lab File: VX020041.D

Acq: 16 Dec 2020 03:25

Instrument :

MSVOA_X

ClientSampleId :

TR1-A-TOP

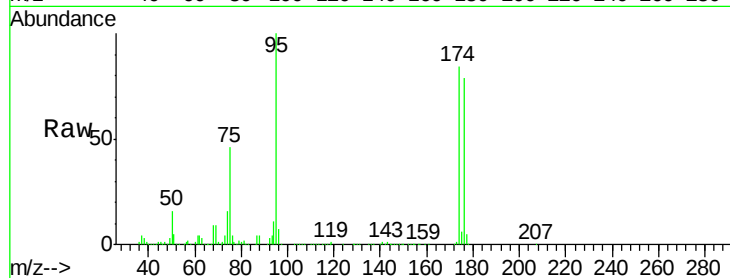
Tgt Ion: 95 Resp: 220501

Ion Ratio Lower Upper

95 100

174 78.4 0.0 154.6

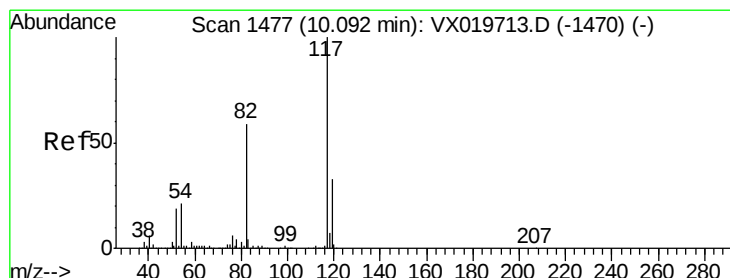
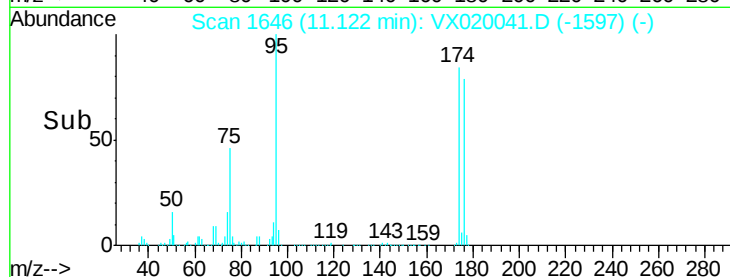
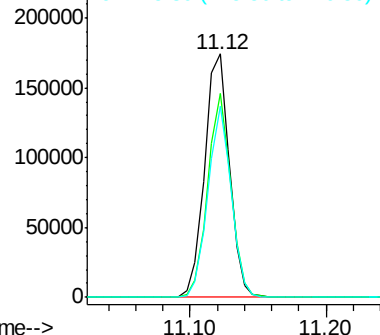
176 74.2 0.0 155.8



Abundance Ion 94.90 (94.60 to 95.60): VX0

Ion 173.80 (173.50 to 174.50): V

Ion 175.80 (175.50 to 176.50): V



#63

Chlorobenzene-d5

Concen: 50.000 ug/l

RT: 10.10 min Scan# 1478

Delta R.T. 0.01 min

Lab File: VX020041.D

Acq: 16 Dec 2020 03:25

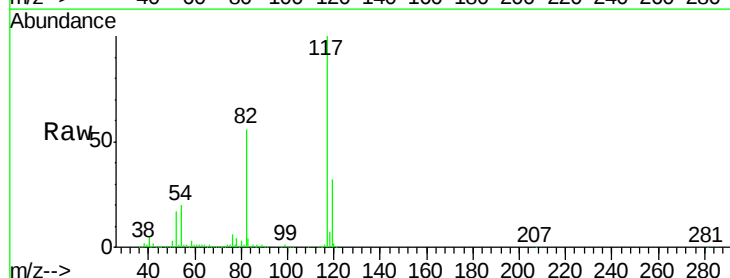
Tgt Ion: 117 Resp: 475440

Ion Ratio Lower Upper

117 100

82 56.2 47.4 71.2

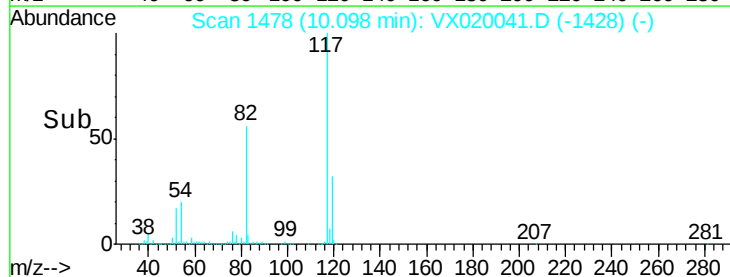
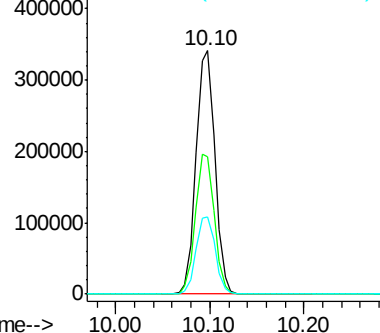
119 31.5 26.6 39.8

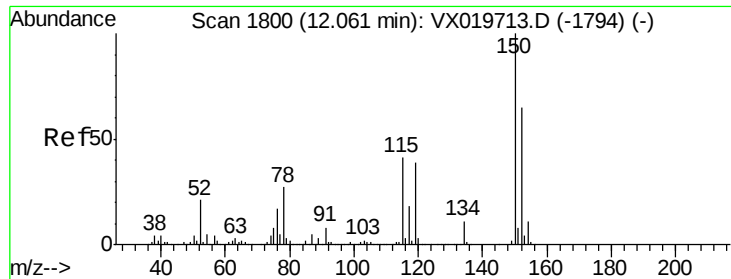


Abundance Ion 116.90 (116.60 to 117.60): V

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: VX020041.D

Acq: 16 Dec 2020 03:25

Instrument :

MSVOA_X

ClientSampleId :

TR1-A-TOP

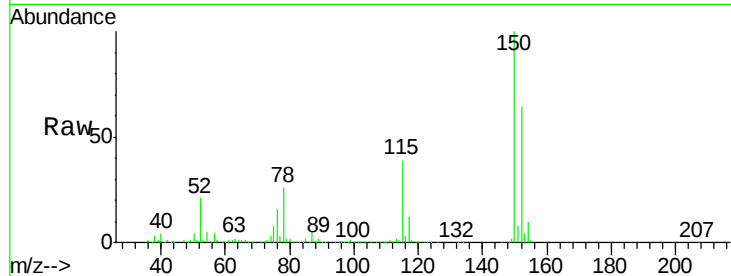
Tgt Ion:152 Resp: 203354

Ion Ratio Lower Upper

152 100

115 59.9 41.1 123.3

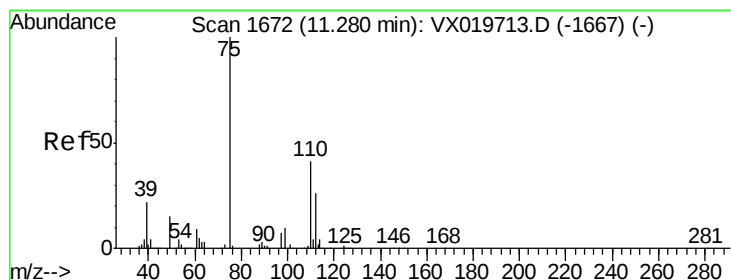
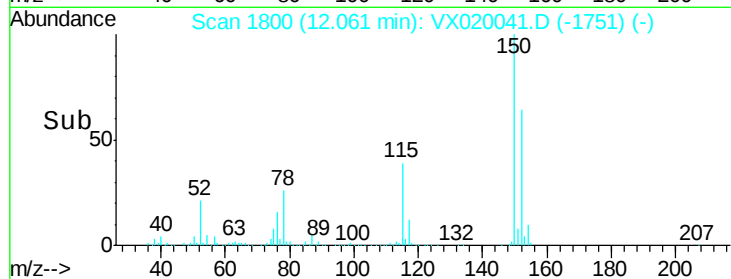
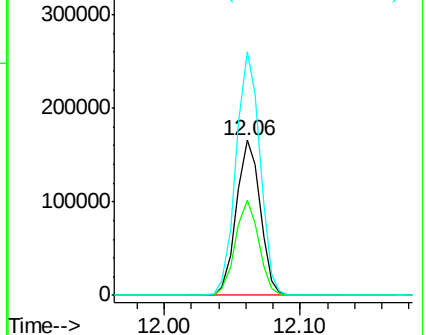
150 156.8 0.0 349.0



Abundance Ion 151.90 (151.60 to 152.60): V

Ion 114.90 (114.60 to 115.60): V

Ion 149.90 (149.60 to 150.60): V



#76

1,2,3-Trichloropropane

Concen: 23.177 ug/l

RT: 11.12 min Scan# 1646

Delta R.T. -0.16 min

Lab File: VX020041.D

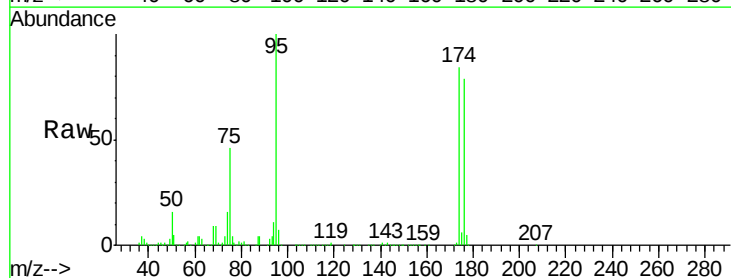
Acq: 16 Dec 2020 03:25

Tgt Ion: 75 Resp: 105706

Ion Ratio Lower Upper

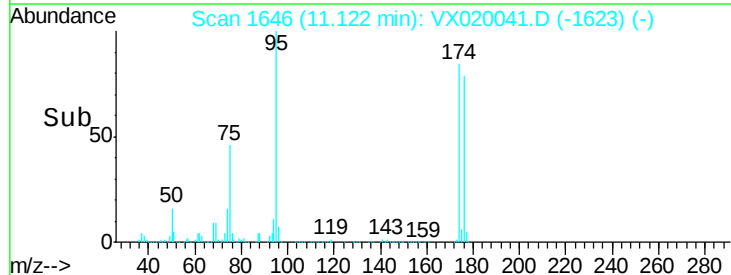
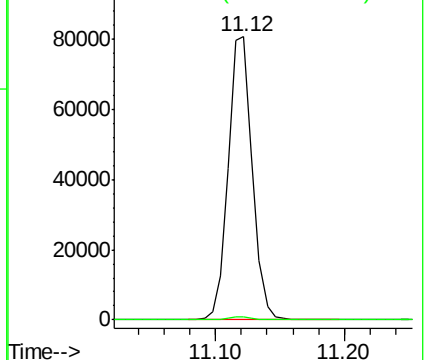
75 100

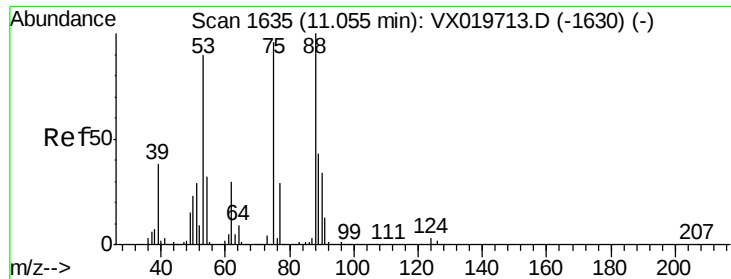
77 1.2 19.1 57.5#



Abundance Ion 74.90 (74.60 to 75.60): VX0

Ion 77.00 (76.70 to 77.70): VX0





#81

trans-1,4-Dichloro-2-butene

Concen: 67.000 ug/l

RT: 11.12 min Scan# 1646

Delta R.T. 0.07 min

Lab File: VX020041.D

Acq: 16 Dec 2020 03:25

Instrument :

MSVOA_X

ClientSampleId :

TR1-A-TOP

Tgt Ion: 75 Resp: 105706

Ion Ratio Lower Upper

75 100

53 0.1 74.5 111.7#

89 0.0 37.9 56.9#

