

Data Path : Z:\VOASRV\HPCHEM1\MSVOA_X\DATA\VX121020\
 Data File : VX019849.D
 Acq On : 11 Dec 2020 01:34
 Operator : JC/MD
 Sample : L4983-08
 Misc : 5.0mL/MSVOA_X/WATER
 ALS Vial : 43 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :
 TR1-C-TOP

Quant Time: Dec 11 03:04:39 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	325473	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	6.82	114	544984	50.00	ug/l	0.00
63) Chlorobenzene-d5	10.09	117	503231	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.06	152	208573	50.00	ug/l	0.00

System Monitoring Compounds

33) 1,2-Dichloroethane-d4	6.03	65	205644	48.07	ug/l	0.00
Spiked Amount	50.000	Range	61 - 141	Recovery	=	96.14%
35) Dibromofluoromethane	5.46	113	167506	47.56	ug/l	0.00
Spiked Amount	50.000	Range	69 - 133	Recovery	=	95.12%
50) Toluene-d8	8.70	98	673707	50.10	ug/l	0.00
Spiked Amount	50.000	Range	65 - 126	Recovery	=	100.20%
62) 4-Bromofluorobenzene	11.12	95	230805	45.10	ug/l	0.00
Spiked Amount	50.000	Range	58 - 135	Recovery	=	90.20%

Target Compounds

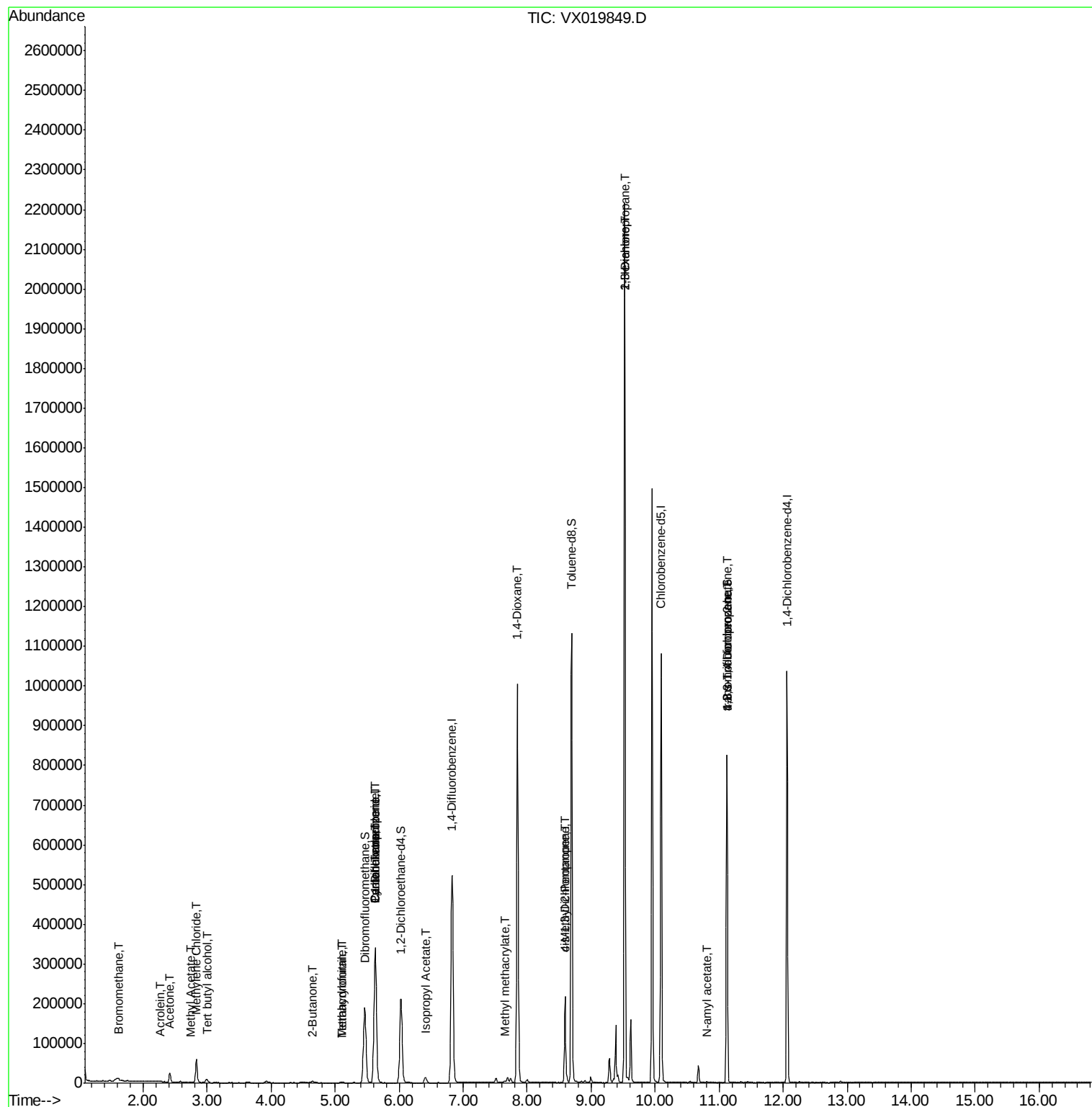
					Qvalue
5) Bromomethane	1.62	94	476	0.388	ug/l 92
11) Tert butyl alcohol	2.99	59	6540	4.874	ug/l # 80
13) Acrolein	2.27	56	144	0.305	ug/l 84
16) Acetone	2.42	43	24316	15.123	ug/l 100
18) Methyl Acetate	2.75	43	1854	0.471	ug/l # 87
20) Methylene Chloride	2.83	84	26784	6.046	ug/l 96
25) 2-Butanone	4.64	43	3795	1.536	ug/l 93
29) Tetrahydrofuran	5.10	42	1090	0.685	ug/l # 80
31) Cyclohexane	5.63	56	6264	1.177	ug/l # 1
36) 1,1-Dichloropropene	5.62	75	24886	5.053	ug/l # 48
38) Carbon Tetrachloride	5.63	117	31764	6.587	ug/l # 16
41) Methacrylonitrile	5.10	41	716	0.262	ug/l # 42
43) Isopropyl Acetate	6.42	43	18365	2.272	ug/l 99
48) Methyl methacrylate	7.65	41	5480	1.378	ug/l # 10
49) 1,4-Dioxane	7.85	88	125	1.298	ug/l # 1
51) 4-Methyl-2-Pentanone	8.59	43	67429	13.662	ug/l # 47
54) cis-1,3-Dichloropropene	8.59	75	35405	5.829	ug/l # 59
57) 1,3-Dichloropropane	9.52	76	19859	3.067	ug/l # 43
59) 2-Hexanone	9.52	43	237634	62.116	ug/l # 46
74) N-amyl acetate	10.80	43	1152	0.202	ug/l # 48
76) 1,2,3-Trichloropropane	11.12	75	111104	23.751	ug/l # 39
81) trans-1,4-Dichloro-2-buten	11.12	75	111104	68.659	ug/l # 12

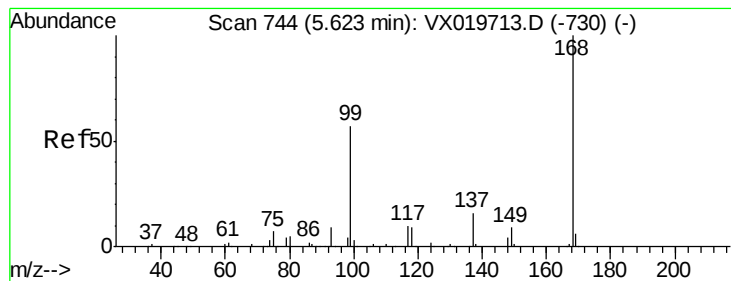
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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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: VX019849.D

Acq: 11 Dec 2020 01:34

Instrument :

MSVOA_X

ClientSampleId :

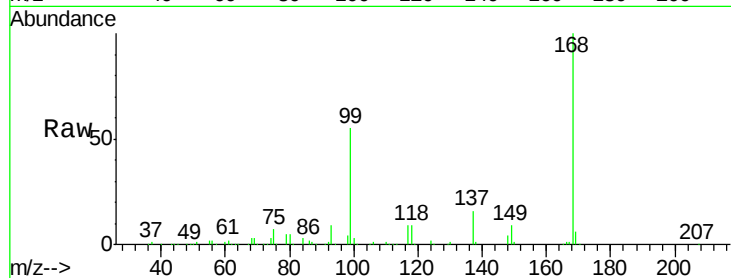
TR1-C-TOP

Tgt Ion:168 Resp: 325473

Ion Ratio Lower Upper

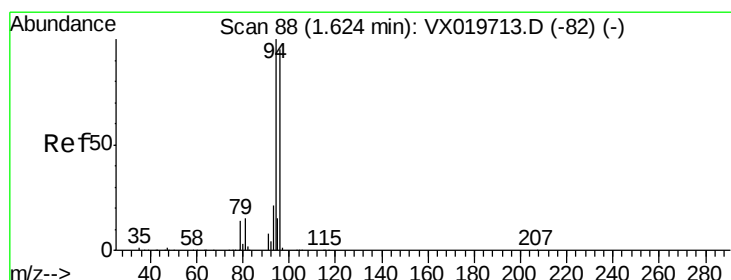
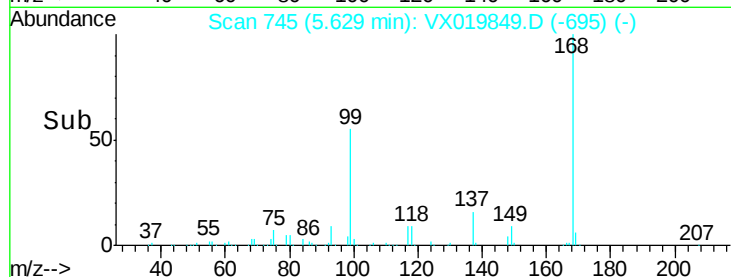
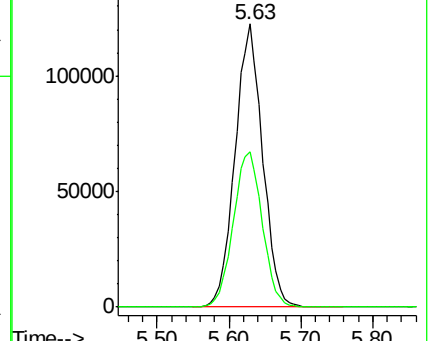
168 100

99 54.7 45.8 68.6



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VX0



#5

Bromomethane

Concen: 0.388 ug/l

RT: 1.62 min Scan# 88

Delta R.T. 0.00 min

Lab File: VX019849.D

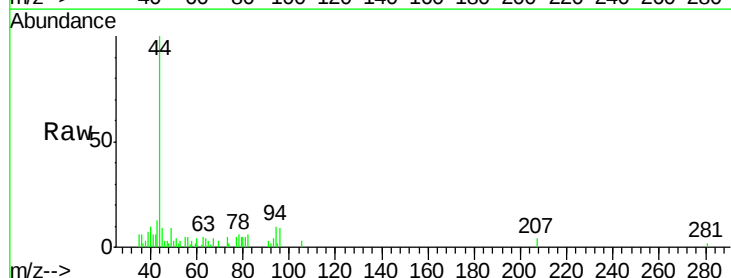
Acq: 11 Dec 2020 01:34

Tgt Ion: 94 Resp: 476

Ion Ratio Lower Upper

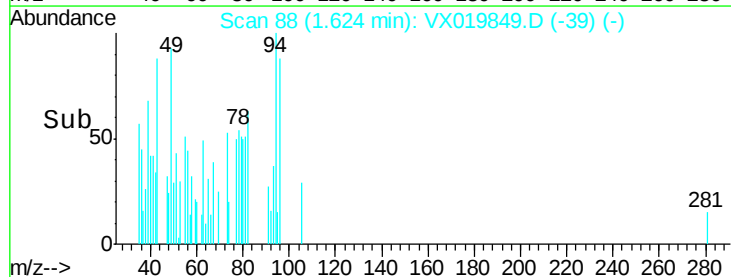
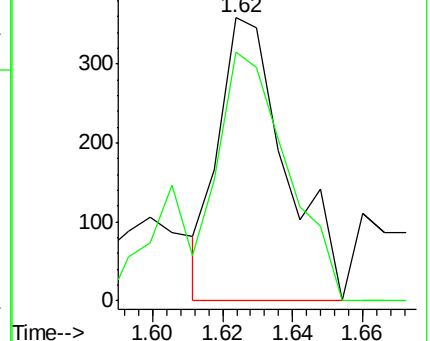
94 100

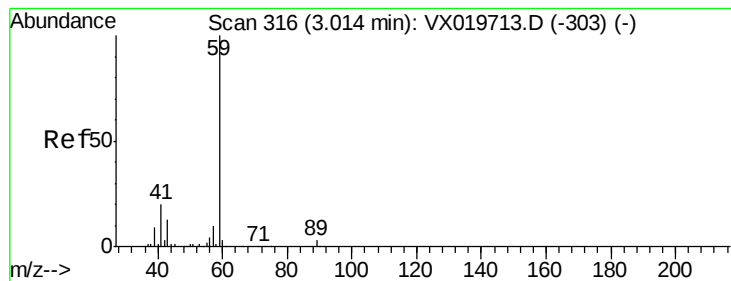
96 88.0 76.4 114.6



Abundance Ion 93.90 (93.60 to 94.60): VX0

Ion 95.90 (95.60 to 96.60): VX0





#11

Tert butyl alcohol

Concen: 4.874 ug/l

RT: 2.99 min Scan# 312

Delta R.T. -0.02 min

Lab File: VX019849.D

Acq: 11 Dec 2020 01:34

Instrument :

MSVOA_X

ClientSampled :

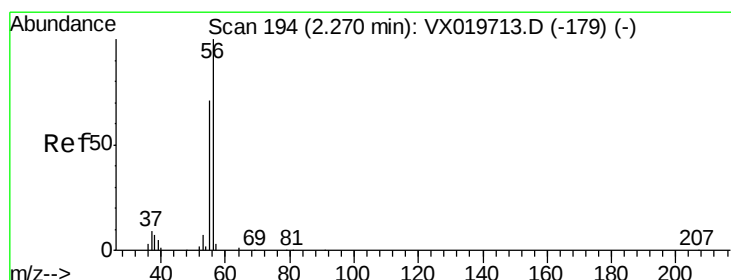
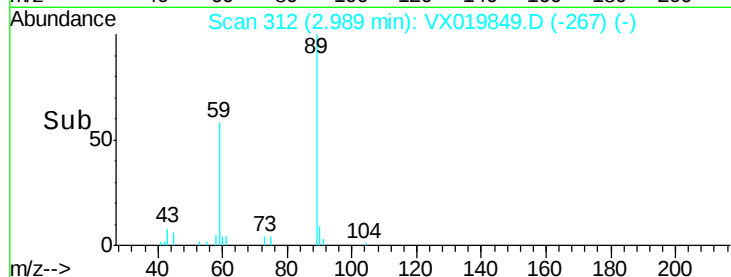
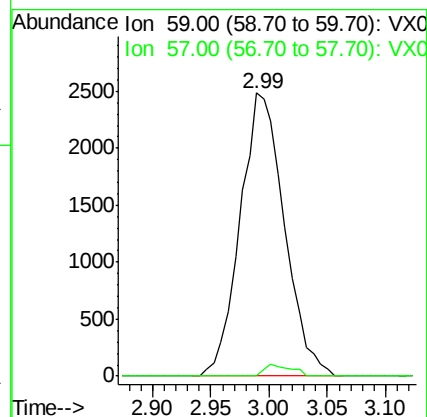
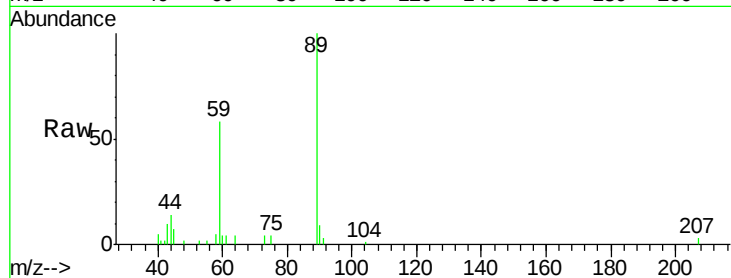
TR1-C-TOP

Tgt Ion: 59 Resp: 6540

Ion Ratio Lower Upper

59 100

57 2.4 7.8 11.8#



#13

Acrolein

Concen: 0.305 ug/l

RT: 2.27 min Scan# 194

Delta R.T. 0.00 min

Lab File: VX019849.D

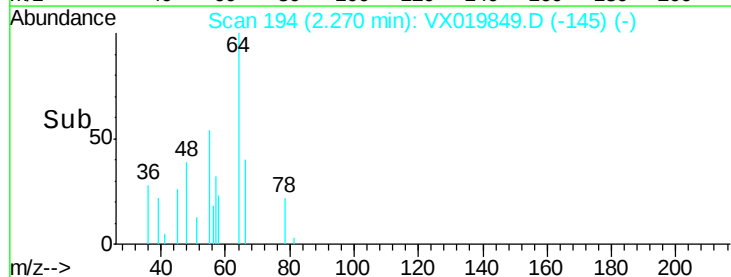
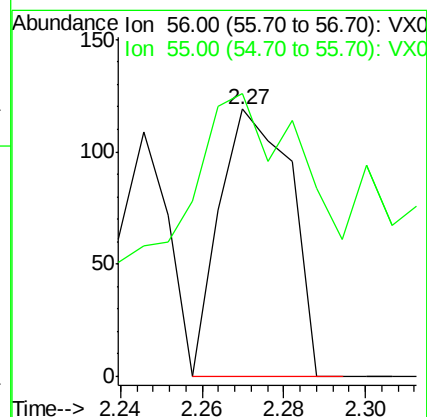
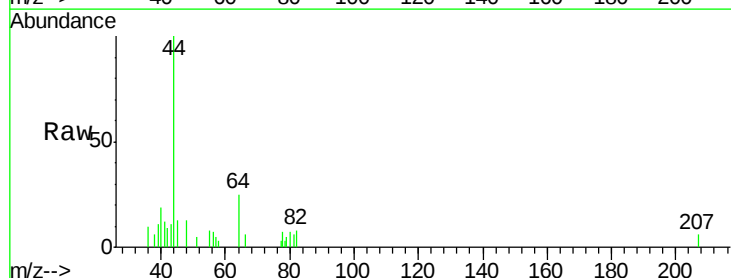
Acq: 11 Dec 2020 01:34

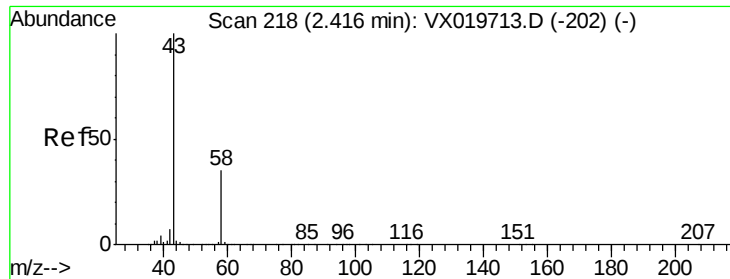
Tgt Ion: 56 Resp: 144

Ion Ratio Lower Upper

56 100

55 84.0 56.4 84.6





#16

Acetone

Concen: 15.123 ug/l

RT: 2.42 min Scan# 218

Delta R.T. 0.00 min

Lab File: VX019849.D

Acq: 11 Dec 2020 01:34

Instrument :

MSVOA_X

ClientSampleId :

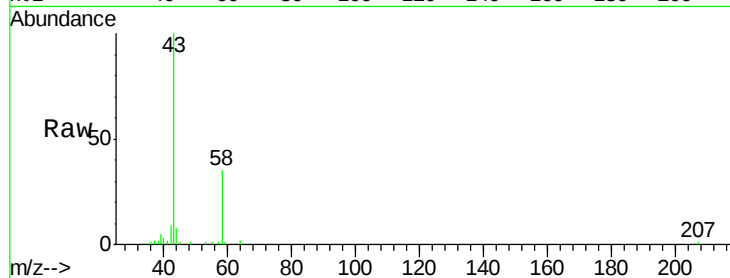
TR1-C-TOP

Tgt Ion: 43 Resp: 24316

Ion Ratio Lower Upper

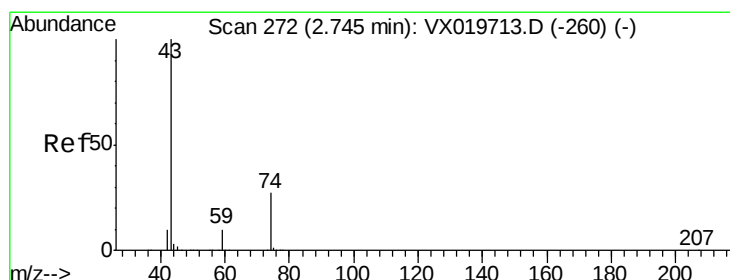
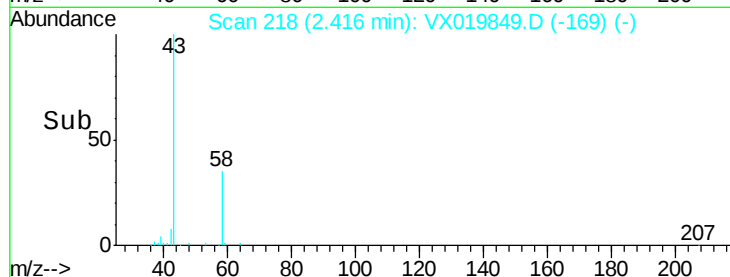
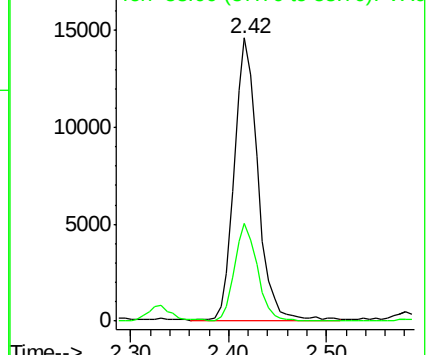
43 100

58 34.8 27.8 41.8



Abundance Ion 43.00 (42.70 to 43.70): VX0

Ion 58.00 (57.70 to 58.70): VX0



#18

Methyl Acetate

Concen: 0.471 ug/l

RT: 2.75 min Scan# 272

Delta R.T. 0.00 min

Lab File: VX019849.D

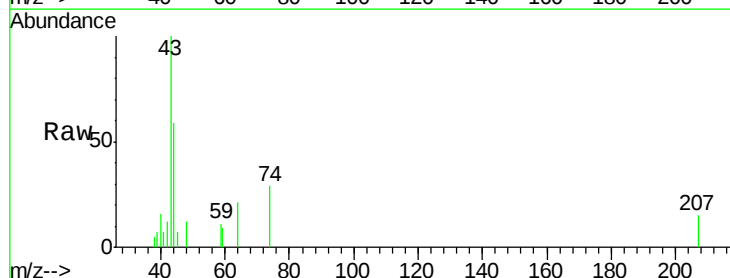
Acq: 11 Dec 2020 01:34

Tgt Ion: 43 Resp: 1854

Ion Ratio Lower Upper

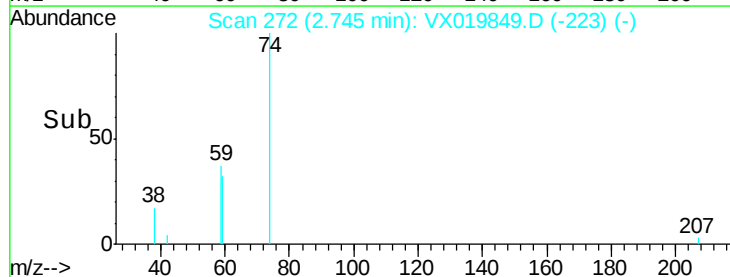
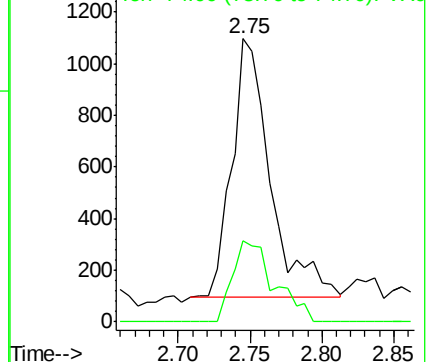
43 100

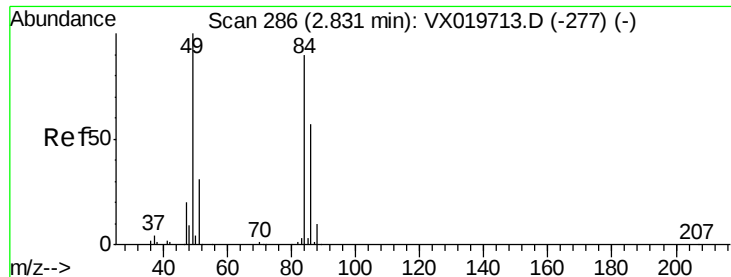
74 34.3 21.9 32.9#



Abundance Ion 43.00 (42.70 to 43.70): VX0

Ion 74.00 (73.70 to 74.70): VX0

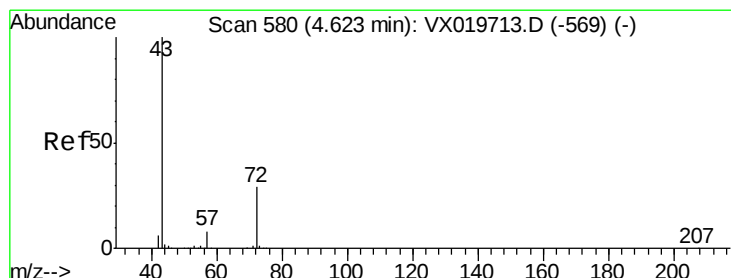
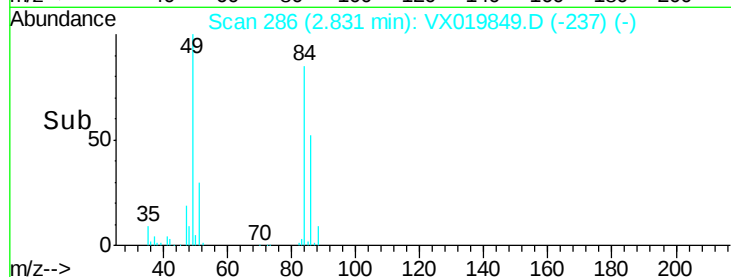
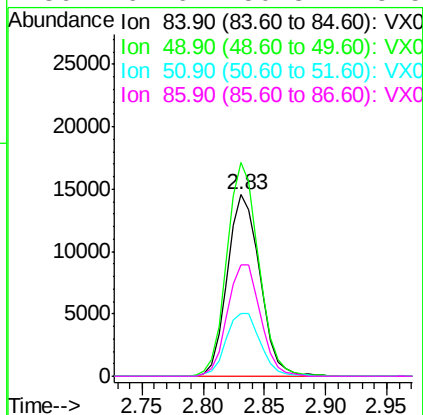
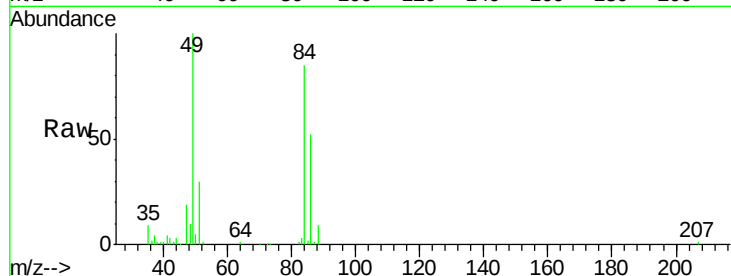




#20
Methylene Chloride
Concen: 6.046 ug/l
RT: 2.83 min Scan# 286
Delta R.T. 0.00 min
Lab File: VX019849.D
Acq: 11 Dec 2020 01:34

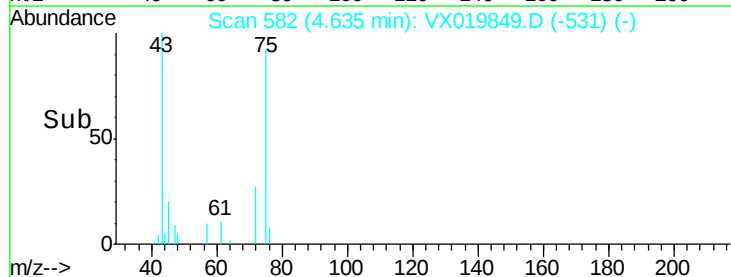
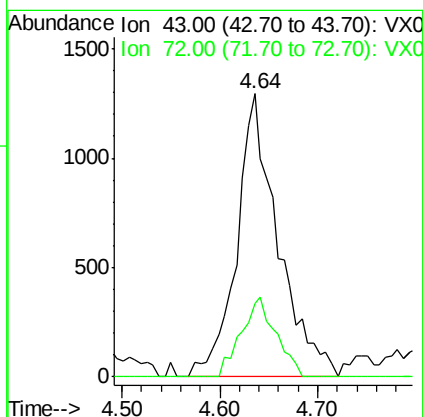
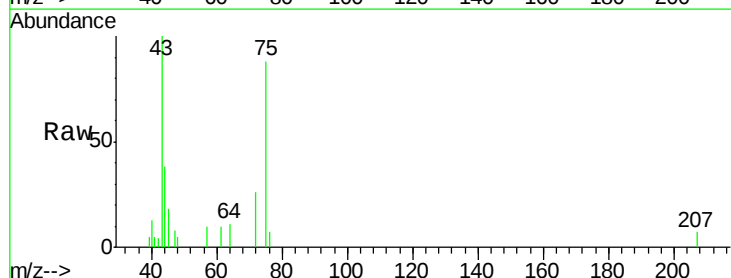
Instrument :
MSVOA_X
ClientSampled :
TR1-C-TOP

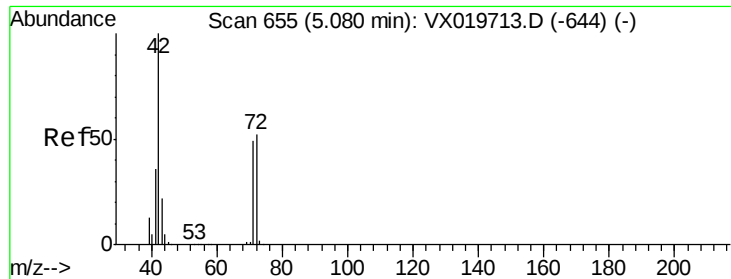
Tgt Ion: 84 Resp: 26784
Ion Ratio Lower Upper
84 100
49 117.9 88.6 132.8
51 34.9 27.0 40.6
86 61.6 50.3 75.5



#25
2-Butanone
Concen: 1.536 ug/l
RT: 4.64 min Scan# 582
Delta R.T. 0.01 min
Lab File: VX019849.D
Acq: 11 Dec 2020 01:34

Tgt Ion: 43 Resp: 3795
Ion Ratio Lower Upper
43 100
72 25.8 23.7 35.5

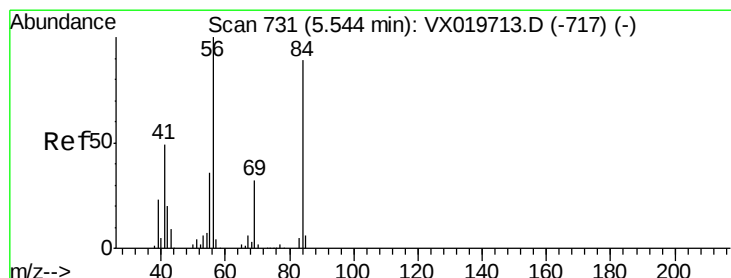
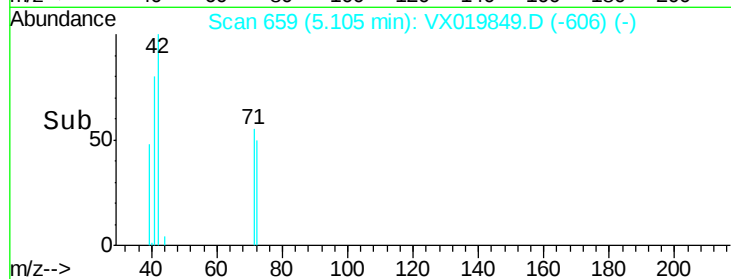
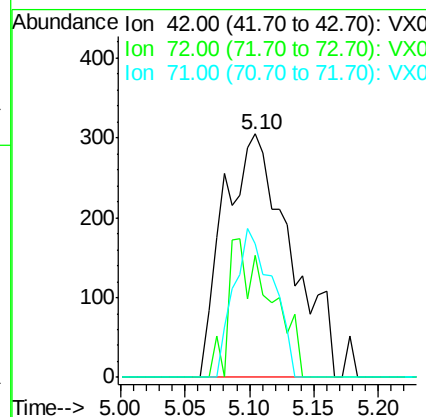
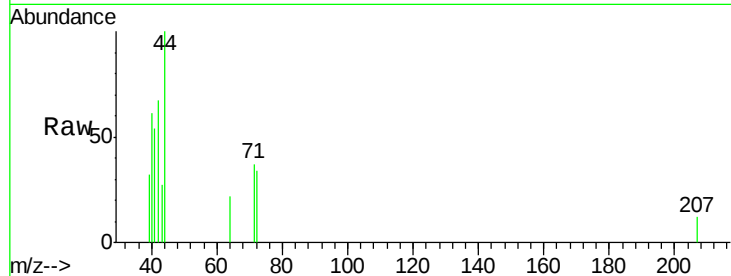




#29
Tetrahydrofuran
Concen: 0.685 ug/l
RT: 5.10 min Scan# 659
Delta R.T. 0.02 min
Lab File: VX019849.D
Acq: 11 Dec 2020 01:34

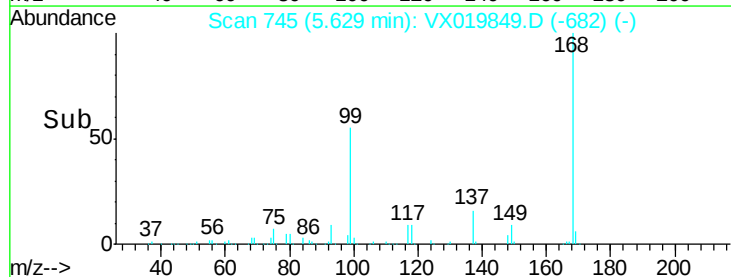
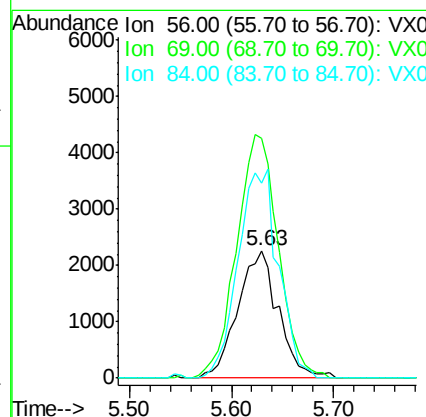
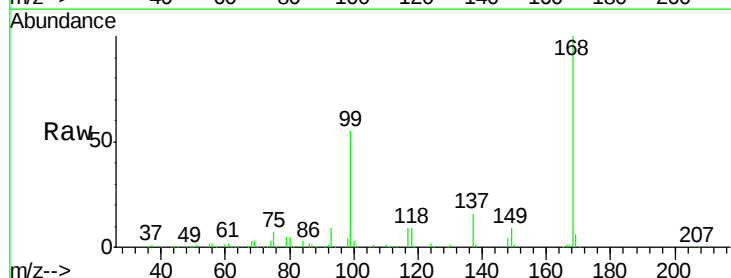
Instrument :
MSVOA_X
ClientSampleId :
TR1-C-TOP

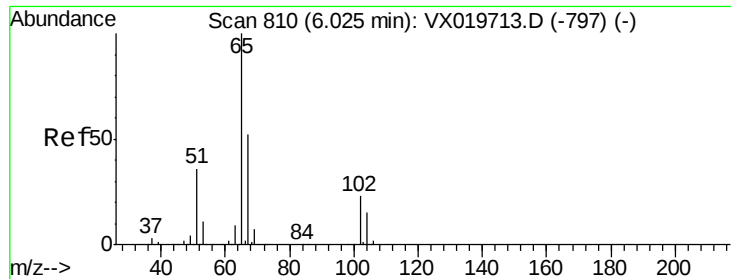
Tgt Ion: 42 Resp: 1090
Ion Ratio Lower Upper
42 100
72 36.2 41.7 62.5#
71 36.1 38.4 57.6#



#31
Cyclohexane
Concen: 1.177 ug/l
RT: 5.63 min Scan# 745
Delta R.T. 0.09 min
Lab File: VX019849.D
Acq: 11 Dec 2020 01:34

Tgt Ion: 56 Resp: 6264
Ion Ratio Lower Upper
56 100
69 188.2 25.3 37.9#
84 153.8 71.4 107.0#

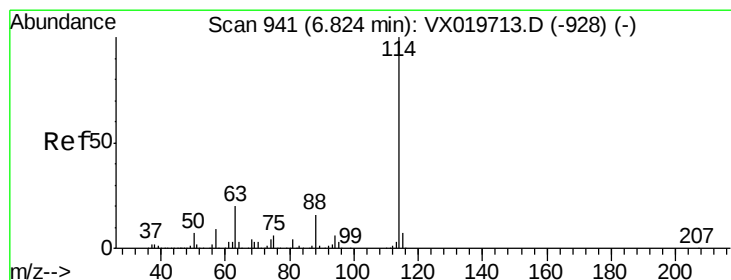
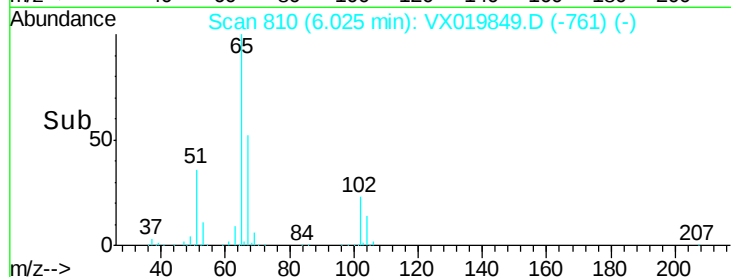
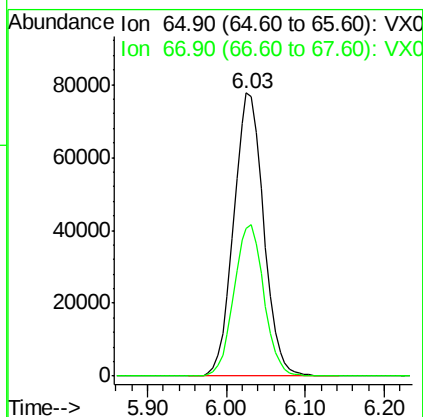
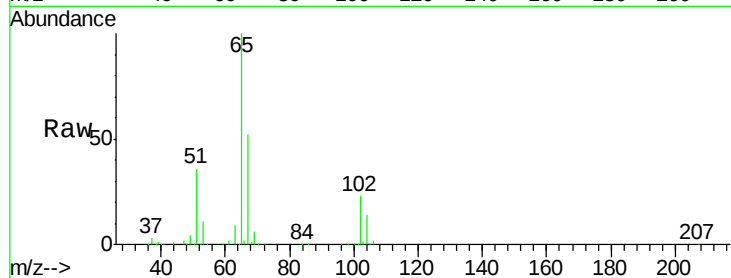




#33
 1,2-Dichloroethane-d4
 Concen: 48.074 ug/l
 RT: 6.03 min Scan# 810
 Delta R.T. 0.00 min
 Lab File: VX019849.D
 Acq: 11 Dec 2020 01:34

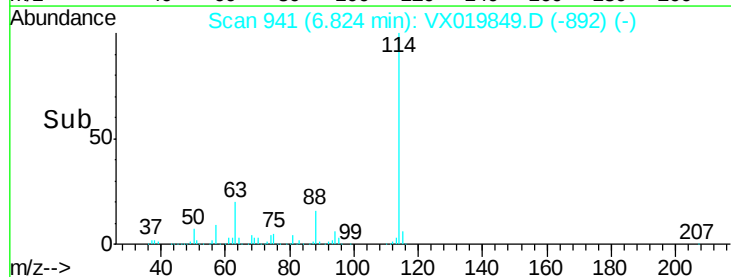
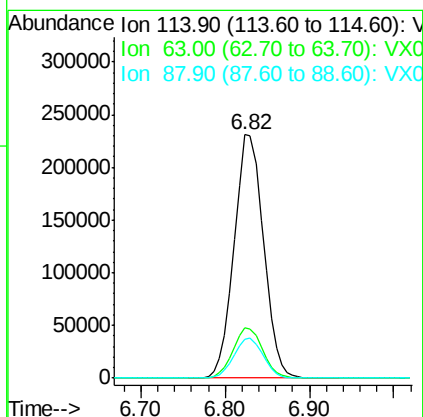
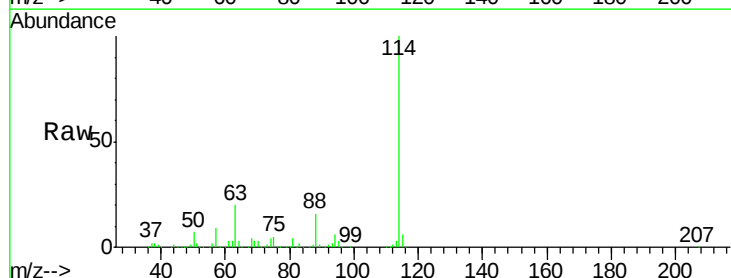
Instrument :
 MSVOA_X
 ClientSampleId :
 TR1-C-TOP

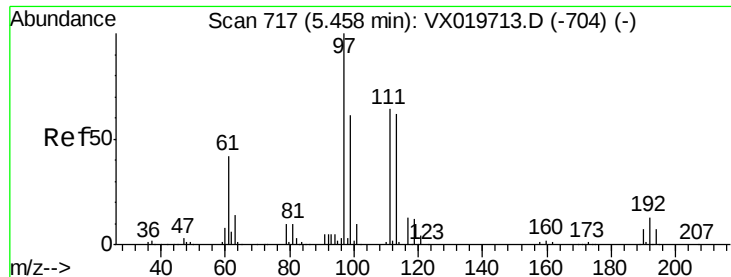
Tgt Ion: 65 Resp: 205644
 Ion Ratio Lower Upper
 65 100
 67 53.5 0.0 105.4



#34
 1,4-Difluorobenzene
 Concen: 50.000 ug/l
 RT: 6.82 min Scan# 941
 Delta R.T. 0.00 min
 Lab File: VX019849.D
 Acq: 11 Dec 2020 01:34

Tgt Ion: 114 Resp: 544984
 Ion Ratio Lower Upper
 114 100
 63 20.4 0.0 40.8
 88 15.9 0.0 32.8





#35

Dibromofluoromethane

Concen: 47.558 ug/l

RT: 5.46 min Scan# 718

Delta R.T. 0.01 min

Lab File: VX019849.D

Acq: 11 Dec 2020 01:34

Instrument :

MSVOA_X

ClientSampleId :

TR1-C-TOP

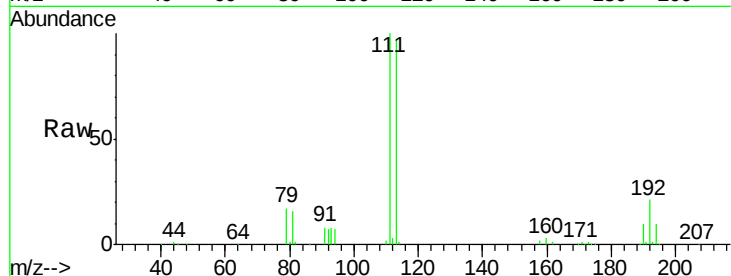
Tgt Ion:113 Resp: 167506

Ion Ratio Lower Upper

113 100

111 102.6 81.9 122.9

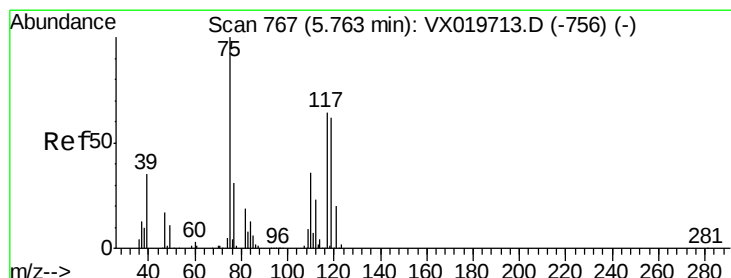
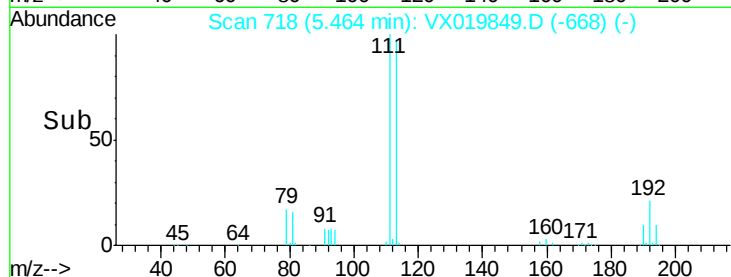
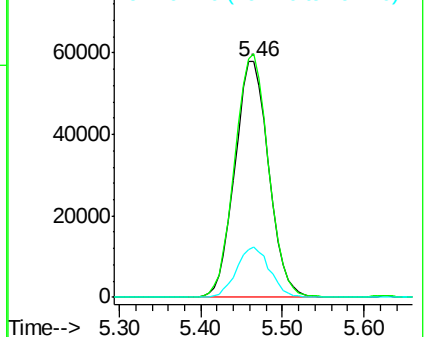
192 20.9 16.7 25.1



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: 5.053 ug/l

RT: 5.62 min Scan# 744

Delta R.T. -0.14 min

Lab File: VX019849.D

Acq: 11 Dec 2020 01:34

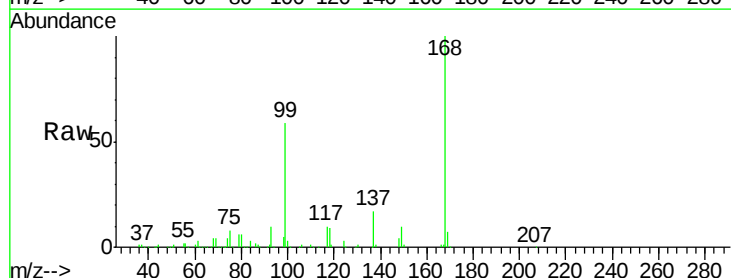
Tgt Ion: 75 Resp: 24886

Ion Ratio Lower Upper

75 100

110 8.6 18.1 54.4#

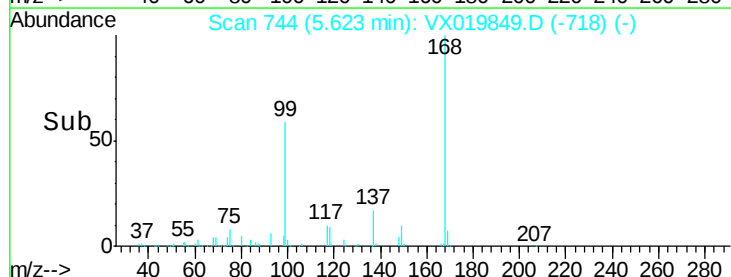
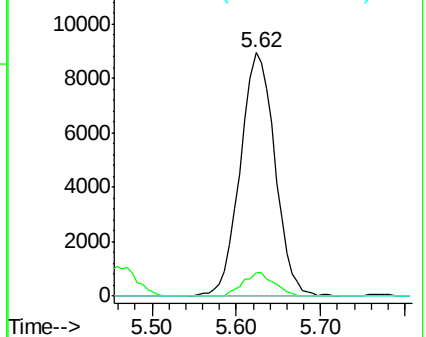
77 0.0 25.3 37.9#

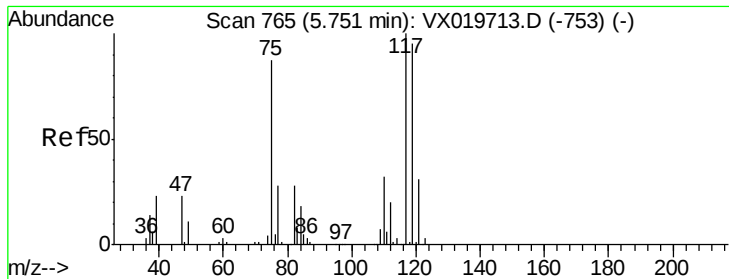


Abundance Ion 74.90 (74.60 to 75.60): VX0

Ion 109.90 (109.60 to 110.60): V

Ion 76.90 (76.60 to 77.60): VX0





#38

Carbon Tetrachloride

Concen: 6.587 ug/l

RT: 5.63 min Scan# 745

Delta R.T. -0.12 min

Lab File: VX019849.D

Acq: 11 Dec 2020 01:34

Instrument :

MSVOA_X

ClientSampleId :

TR1-C-TOP

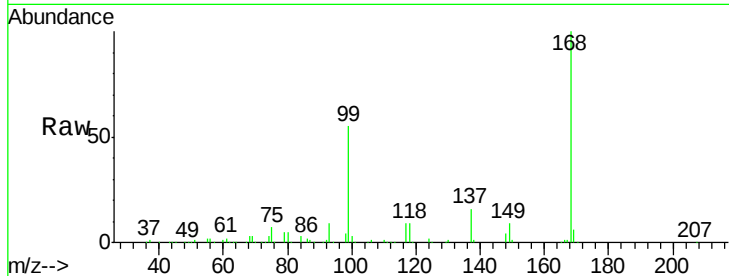
Tgt Ion:117 Resp: 31764

Ion Ratio Lower Upper

117 100

119 4.6 76.2 114.2#

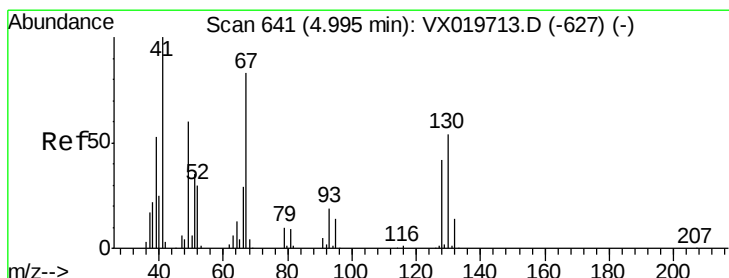
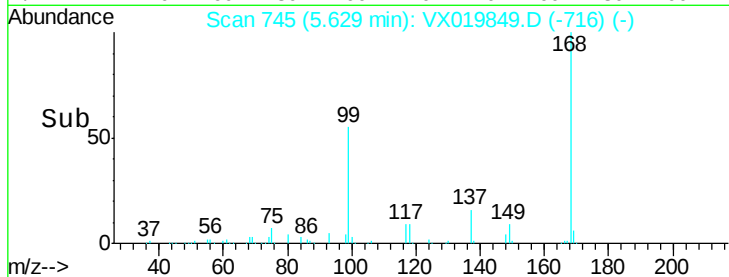
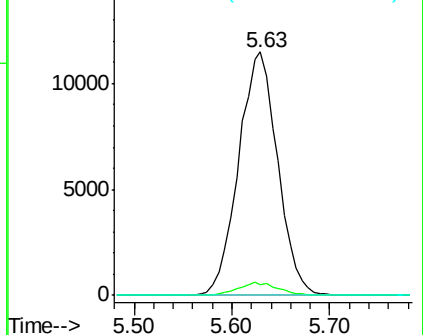
121 0.0 24.8 37.2#



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: 0.262 ug/l

RT: 5.10 min Scan# 658

Delta R.T. 0.10 min

Lab File: VX019849.D

Acq: 11 Dec 2020 01:34

Tgt Ion: 41 Resp: 716

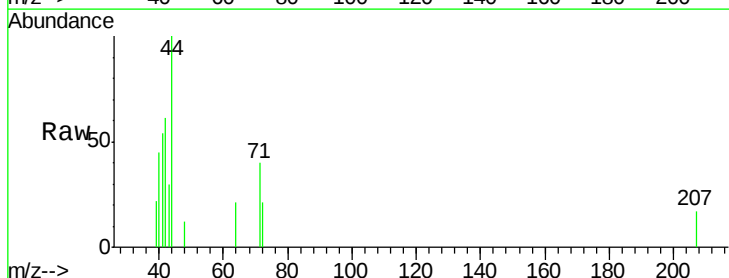
Ion Ratio Lower Upper

41 100

39 46.9 42.5 63.7

67 0.0 65.0 97.6#

52 0.0 25.3 37.9#

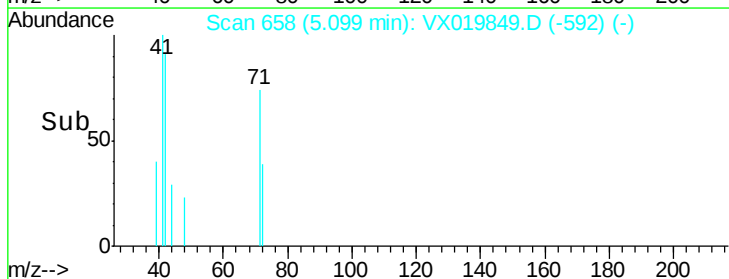
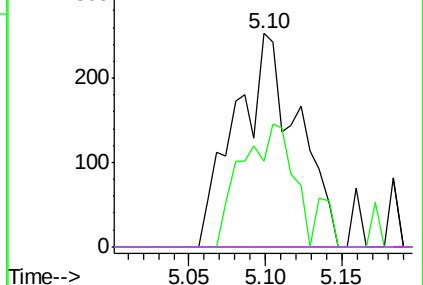


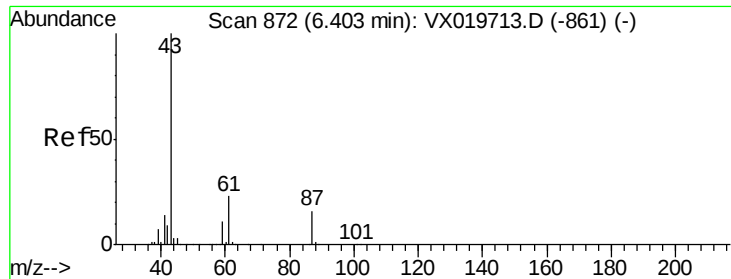
Abundance Ion 41.00 (40.70 to 41.70): VX0

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: 2.272 ug/l

RT: 6.42 min Scan# 874

Delta R.T. 0.01 min

Lab File: VX019849.D

Acq: 11 Dec 2020 01:34

Instrument :

MSVOA_X

ClientSampleId :

TR1-C-TOP

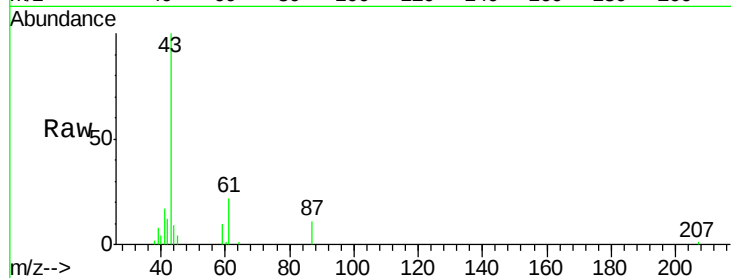
Tgt Ion: 43 Resp: 18365

Ion Ratio Lower Upper

43 100

61 22.5 18.2 27.4

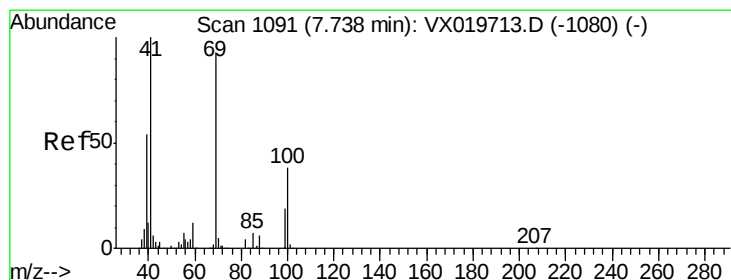
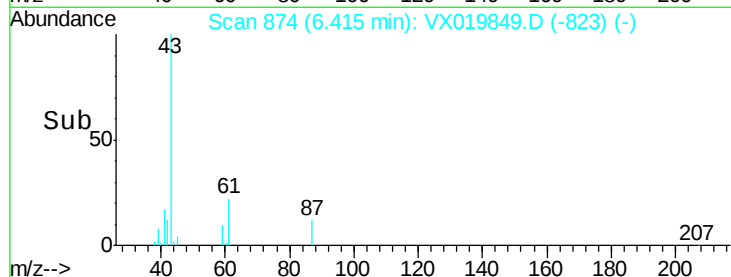
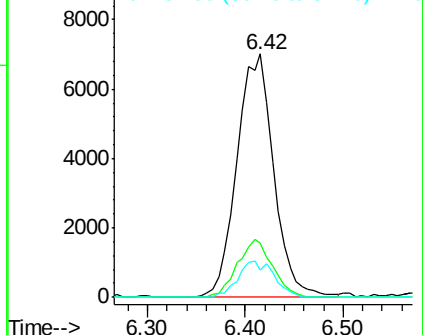
87 14.6 12.5 18.7



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: 1.378 ug/l

RT: 7.65 min Scan# 1077

Delta R.T. -0.09 min

Lab File: VX019849.D

Acq: 11 Dec 2020 01:34

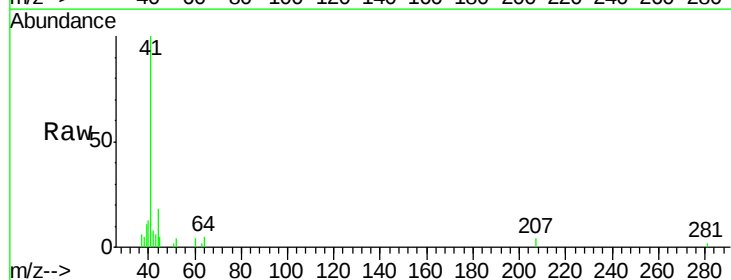
Tgt Ion: 41 Resp: 5480

Ion Ratio Lower Upper

41 100

69 0.0 76.0 114.0#

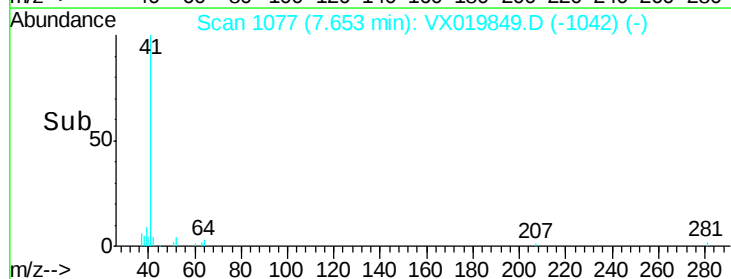
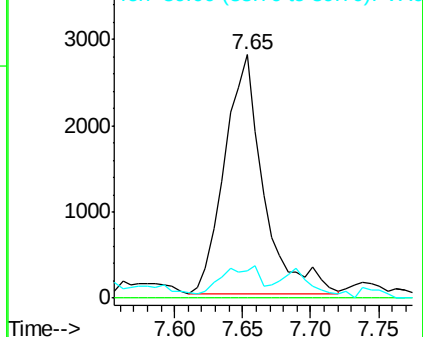
39 0.0 44.6 67.0#

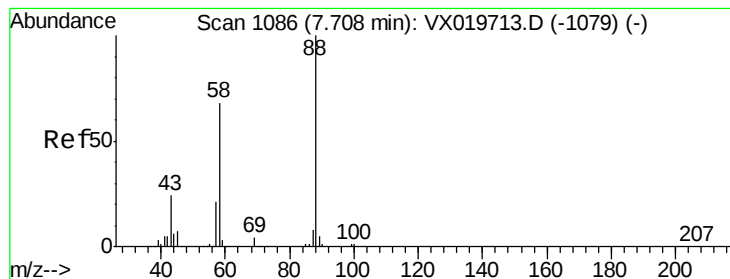


Abundance Ion 41.00 (40.70 to 41.70): VX0

Ion 69.00 (68.70 to 69.70): VX0

Ion 39.00 (38.70 to 39.70): VX0





#49

1,4-Dioxane

Concen: 1.298 ug/l

RT: 7.85 min Scan# 1109

Delta R.T. 0.14 min

Lab File: VX019849.D

Acq: 11 Dec 2020 01:34

Instrument :

MSVOA_X

ClientSampleId :

TR1-C-TOP

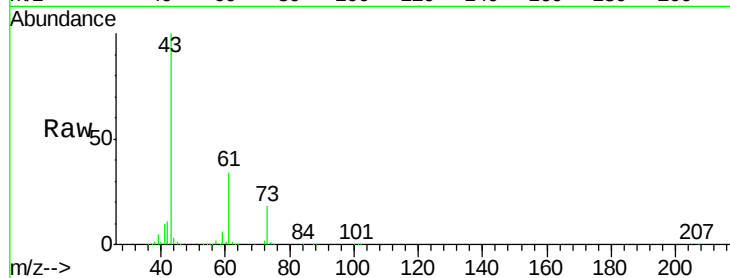
Tgt Ion: 88 Resp: 125

Ion Ratio Lower Upper

88 100

43 689258.4 23.2 34.8#

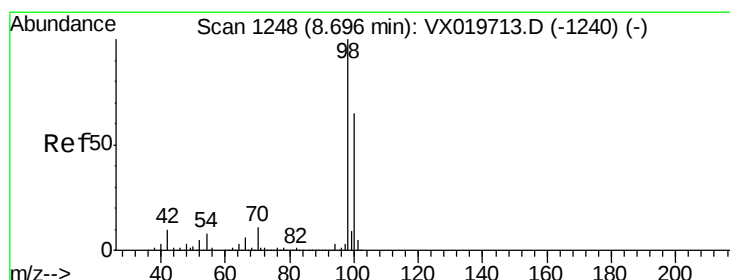
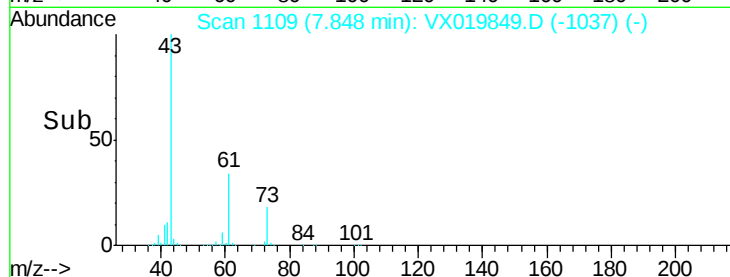
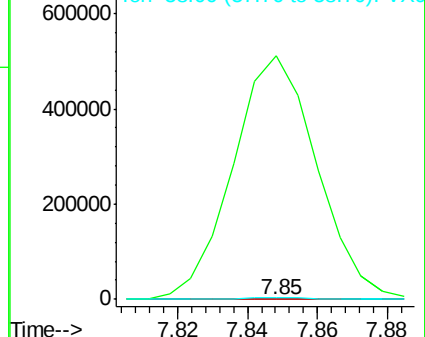
58 3847.2 55.0 82.4#



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: 50.102 ug/l

RT: 8.70 min Scan# 1248

Delta R.T. 0.00 min

Lab File: VX019849.D

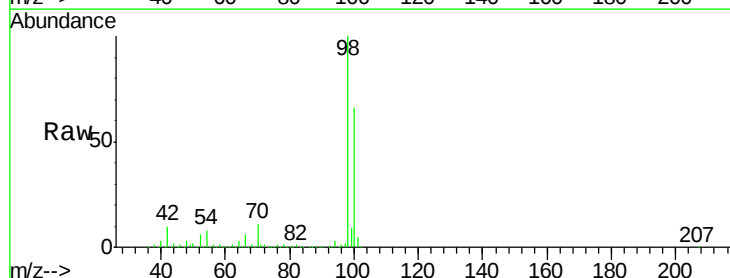
Acq: 11 Dec 2020 01:34

Tgt Ion: 98 Resp: 673707

Ion Ratio Lower Upper

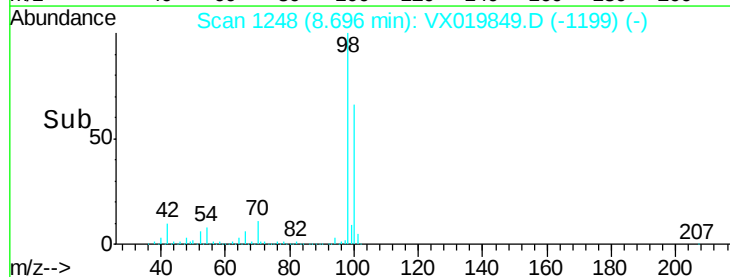
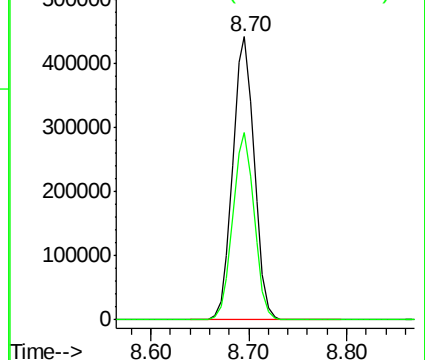
98 100

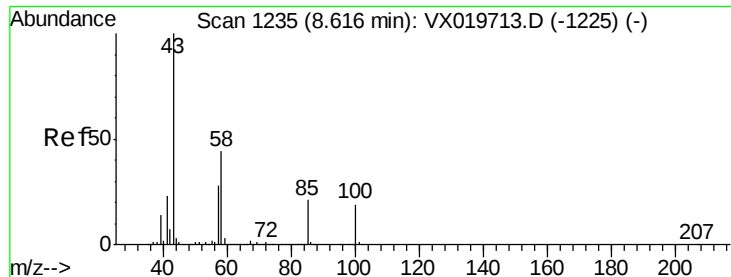
100 65.7 51.9 77.9



Abundance Ion 98.00 (97.70 to 98.70): VX0

Ion 100.00 (99.70 to 100.70): VX0

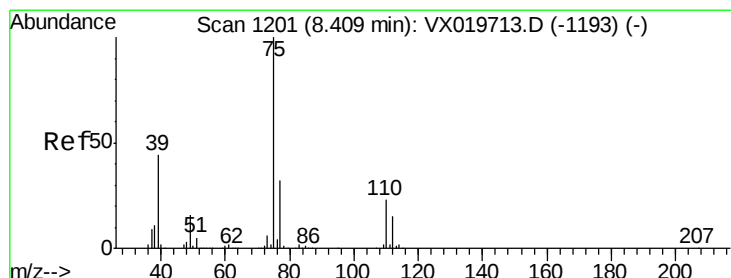
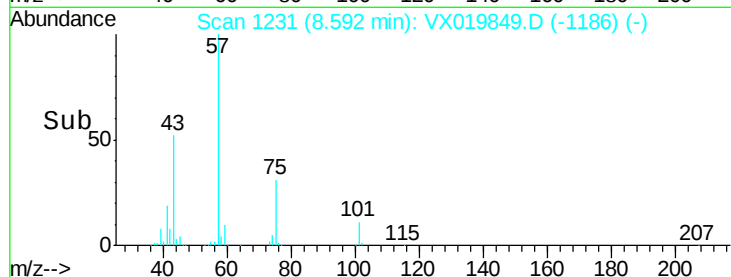
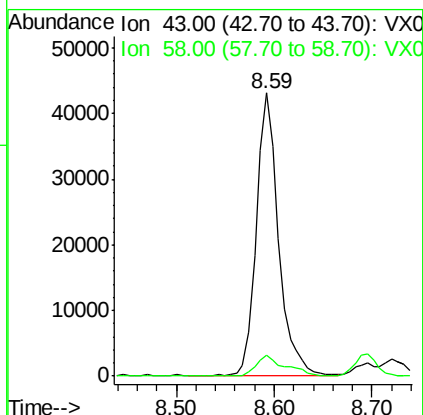
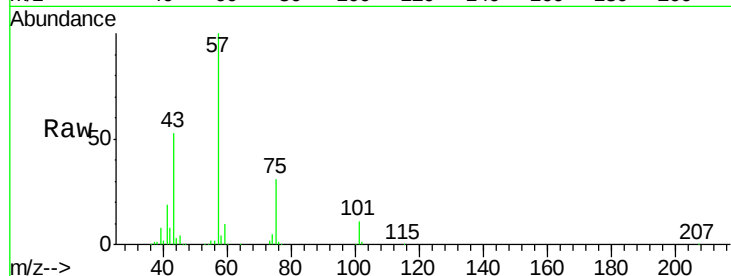




#51
 4-Methyl-2-Pentanone
 Concen: 13.662 ug/l
 RT: 8.59 min Scan# 1231
 Delta R.T. -0.02 min
 Lab File: VX019849.D
 Acq: 11 Dec 2020 01:34

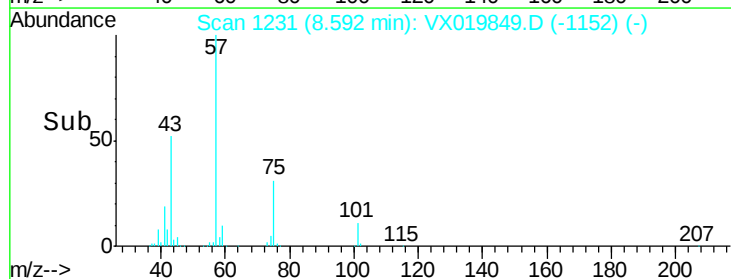
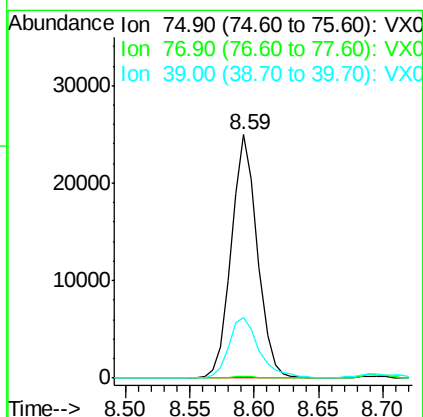
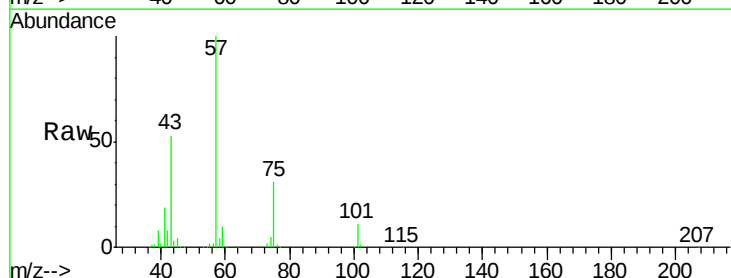
Instrument :
 MSVOA_X
 ClientSampleId :
 TR1-C-TOP

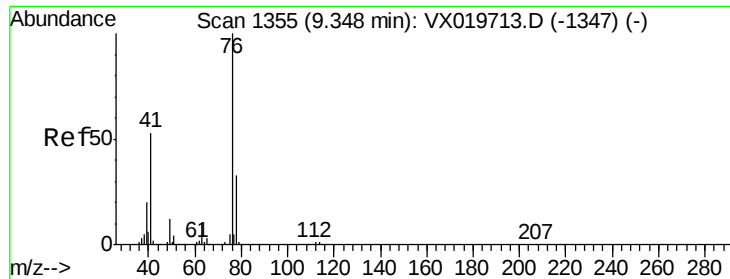
Tgt Ion: 43 Resp: 67429
 Ion Ratio Lower Upper
 43 100
 58 9.6 35.4 53.0#



#54
 cis-1,3-Dichloropropene
 Concen: 5.829 ug/l
 RT: 8.59 min Scan# 1231
 Delta R.T. 0.18 min
 Lab File: VX019849.D
 Acq: 11 Dec 2020 01:34

Tgt Ion: 75 Resp: 35405
 Ion Ratio Lower Upper
 75 100
 77 0.6 25.7 38.5#
 39 24.7 35.1 52.7#

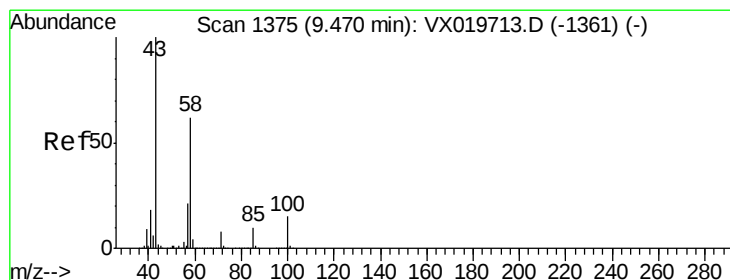
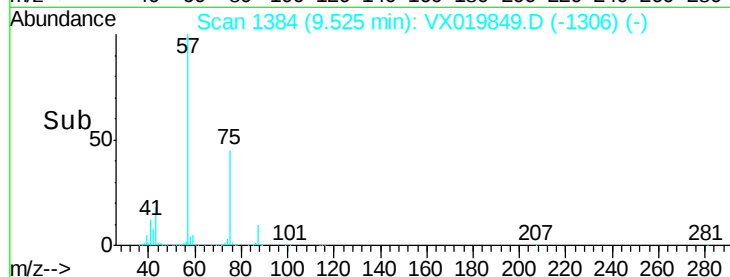
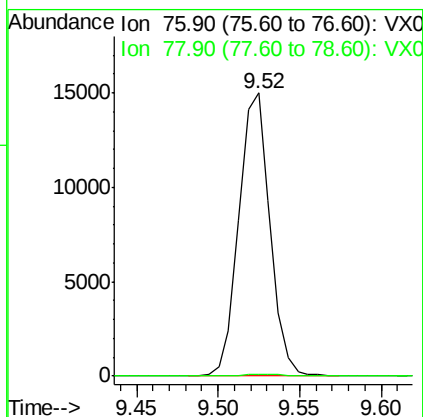
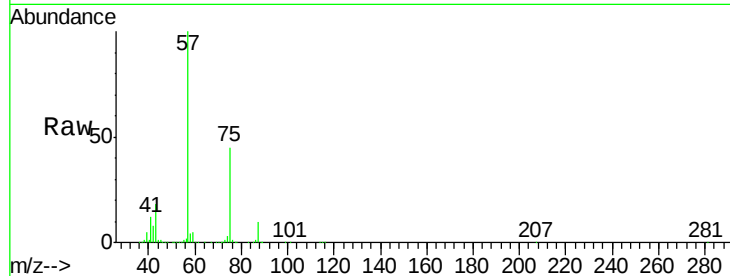




#57
 1,3-Dichloropropane
 Concen: 3.067 ug/l
 RT: 9.52 min Scan# 1384
 Delta R.T. 0.18 min
 Lab File: VX019849.D
 Acq: 11 Dec 2020 01:34

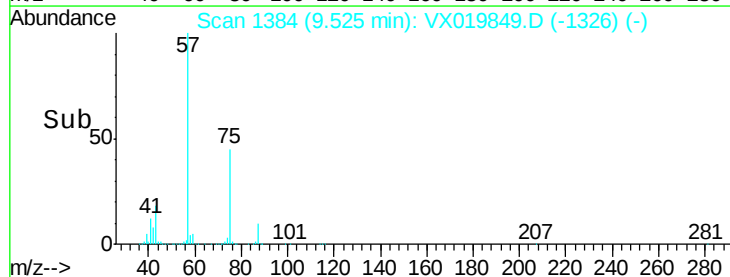
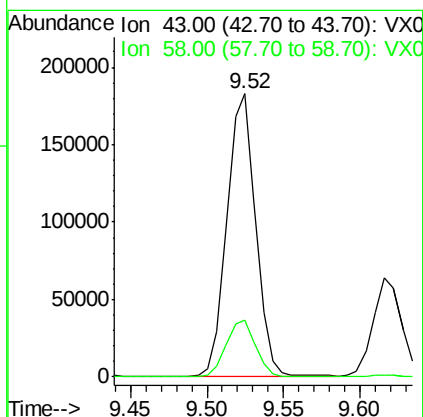
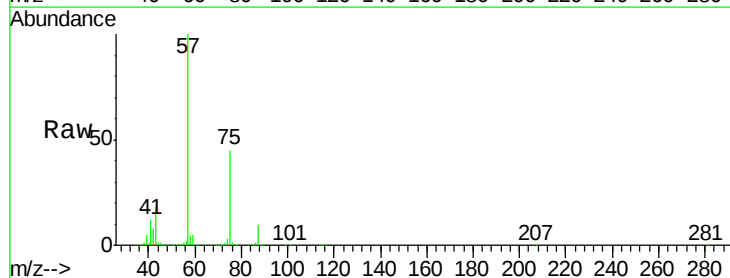
Instrument :
 MSVOA_X
 ClientSampleId :
 TR1-C-TOP

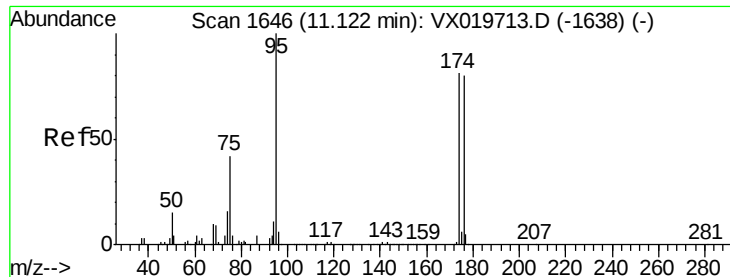
Tgt Ion: 76 Resp: 19859
 Ion Ratio Lower Upper
 76 100
 78 0.6 26.2 39.2#



#59
 2-Hexanone
 Concen: 62.116 ug/l
 RT: 9.52 min Scan# 1384
 Delta R.T. 0.05 min
 Lab File: VX019849.D
 Acq: 11 Dec 2020 01:34

Tgt Ion: 43 Resp: 237634
 Ion Ratio Lower Upper
 43 100
 58 20.4 30.9 92.8#

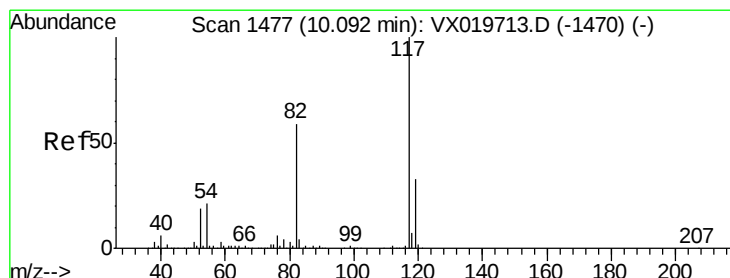
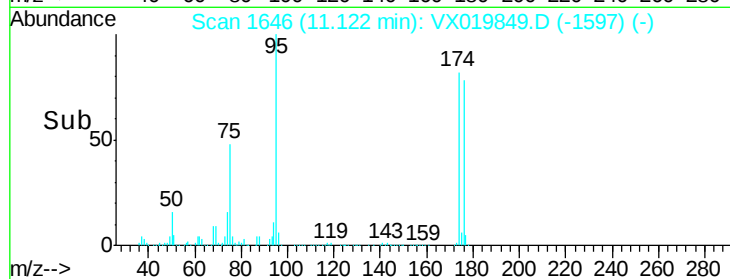
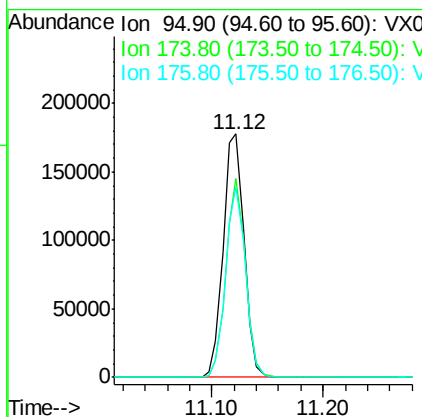
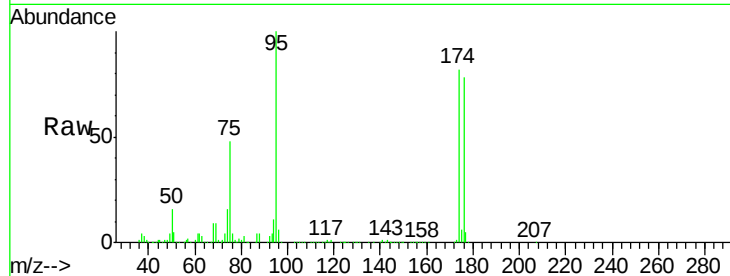




#62
 4-Bromofluorobenzene
 Concen: 45.097 ug/l
 RT: 11.12 min Scan# 1646
 Delta R.T. 0.00 min
 Lab File: VX019849.D
 Acq: 11 Dec 2020 01:34

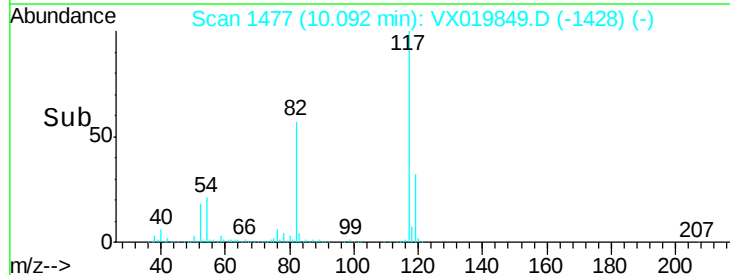
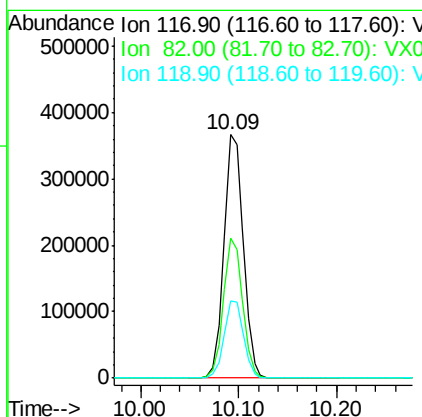
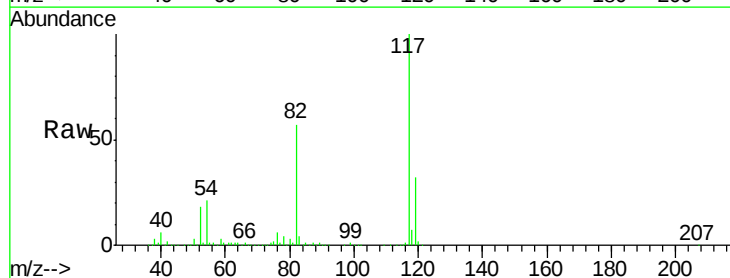
Instrument :
 MSVOA_X
 ClientSampleId :
 TR1-C-TOP

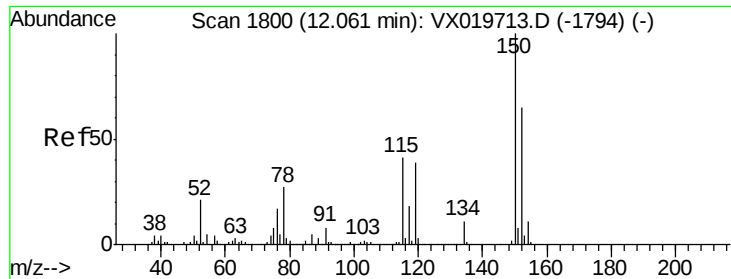
Tgt Ion: 95 Resp: 230805
 Ion Ratio Lower Upper
 95 100
 174 76.0 0.0 154.6
 176 74.1 0.0 155.8



#63
 Chlorobenzene-d5
 Concen: 50.000 ug/l
 RT: 10.09 min Scan# 1477
 Delta R.T. 0.00 min
 Lab File: VX019849.D
 Acq: 11 Dec 2020 01:34

Tgt Ion: 117 Resp: 503231
 Ion Ratio Lower Upper
 117 100
 82 57.4 47.4 71.2
 119 31.8 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: VX019849.D

Acq: 11 Dec 2020 01:34

Instrument :

MSVOA_X

ClientSampleId :

TR1-C-TOP

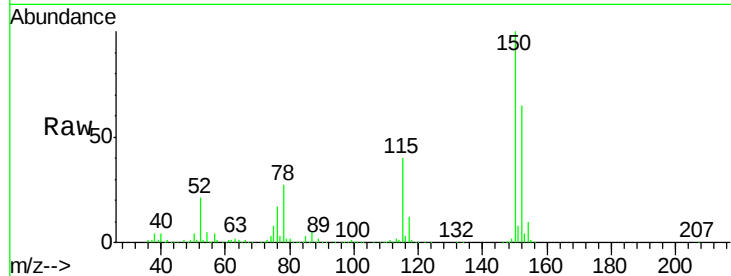
Tgt Ion:152 Resp: 208573

Ion Ratio Lower Upper

152 100

115 61.3 41.1 123.3

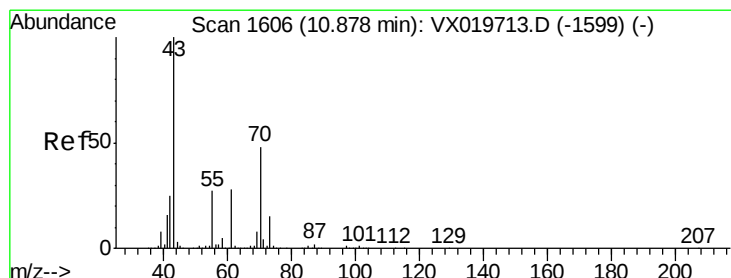
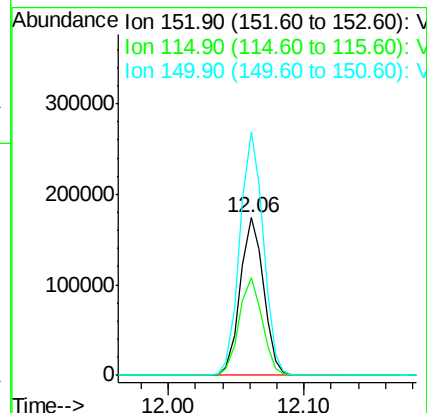
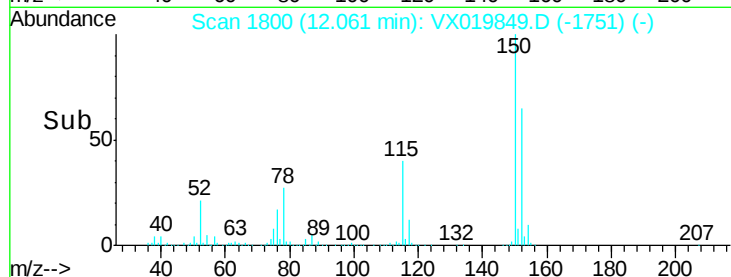
150 155.2 0.0 349.0



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-ethyl acetate

Concen: 0.202 ug/l

RT: 10.80 min Scan# 1594

Delta R.T. -0.07 min

Lab File: VX019849.D

Acq: 11 Dec 2020 01:34

Tgt Ion: 43 Resp: 1152

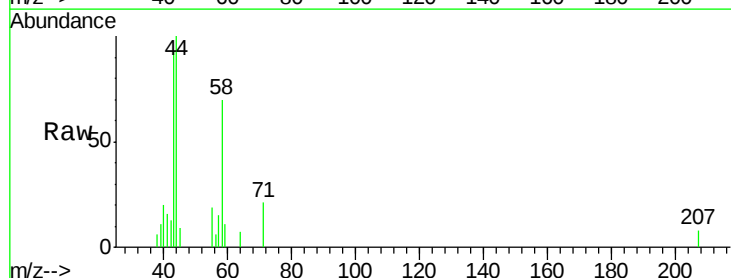
Ion Ratio Lower Upper

43 100

70 0.0 39.0 58.6#

55 19.3 21.5 32.3#

61 0.0 22.1 33.1#

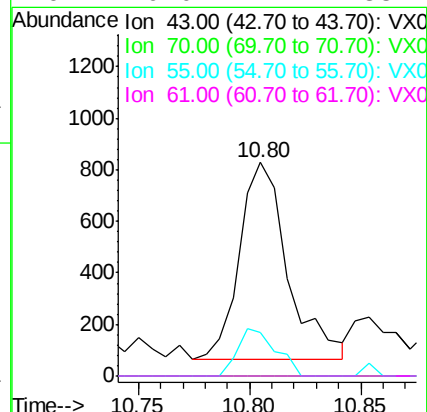
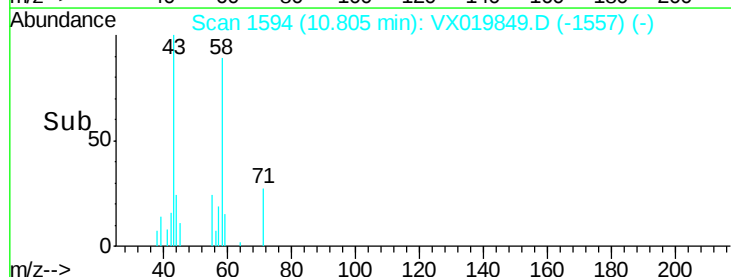


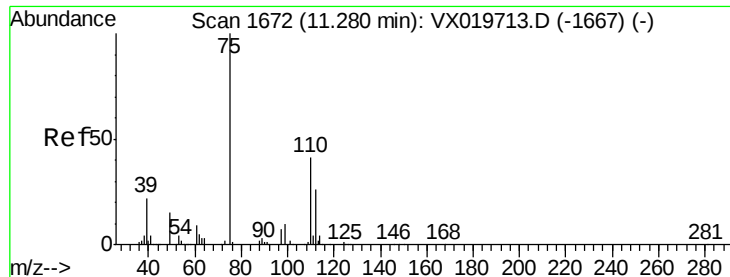
Abundance Ion 43.00 (42.70 to 43.70): VX0

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: 23.751 ug/l

RT: 11.12 min Scan# 1646

Delta R.T. -0.16 min

Lab File: VX019849.D

Acq: 11 Dec 2020 01:34

Instrument :

MSVOA_X

ClientSampleId :

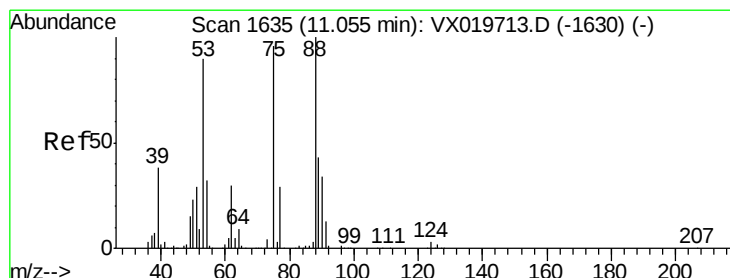
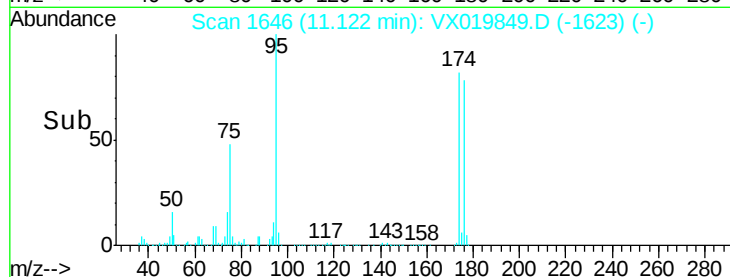
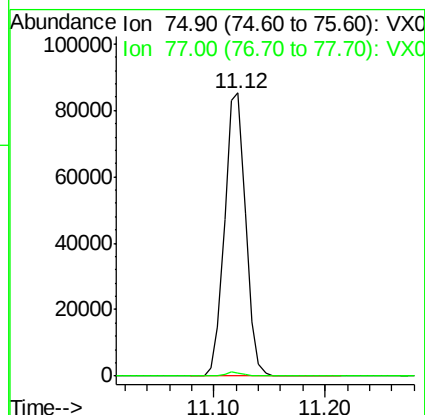
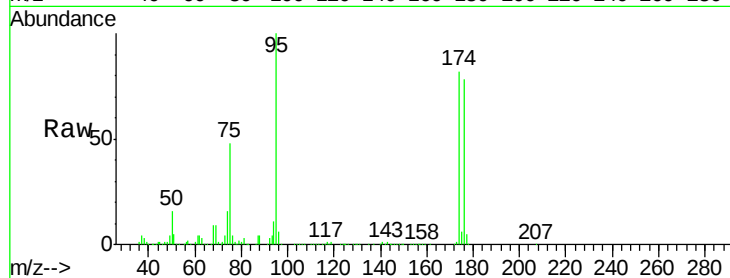
TR1-C-TOP

Tgt Ion: 75 Resp: 111104

Ion Ratio Lower Upper

75 100

77 1.3 19.1 57.5#



#81

trans-1,4-Dichloro-2-butene

Concen: 68.659 ug/l

RT: 11.12 min Scan# 1646

Delta R.T. 0.07 min

Lab File: VX019849.D

Acq: 11 Dec 2020 01:34

Tgt Ion: 75 Resp: 111104

Ion Ratio Lower Upper

75 100

53 0.0 74.5 111.7#

89 0.0 37.9 56.9#

