

Data Path : Z:\VOASRV\HPCHEM1\MSVOA_X\DATA\VX121020\
 Data File : VX019845.D
 Acq On : 11 Dec 2020 00:01
 Operator : JC/MD
 Sample : L4983-04
 Misc : 5.0mL/MSVOA_X/WATER
 ALS Vial : 39 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :
 TR1-A-TOP

Quant Time: Dec 11 02:47:46 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	313596	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	6.83	114	525366	50.00	ug/l	0.00
63) Chlorobenzene-d5	10.10	117	489573	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.06	152	214356	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	200349	48.61	ug/l	0.00
Spiked Amount	50.000	Range	61 - 141	Recovery	=	97.22%	
35) Dibromofluoromethane		5.46	113	163015	48.01	ug/l	0.00
Spiked Amount	50.000	Range	69 - 133	Recovery	=	96.02%	
50) Toluene-d8		8.70	98	644068	49.69	ug/l	0.00
Spiked Amount	50.000	Range	65 - 126	Recovery	=	99.38%	
62) 4-Bromofluorobenzene		11.12	95	226759	45.96	ug/l	0.00
Spiked Amount	50.000	Range	58 - 135	Recovery	=	91.92%	

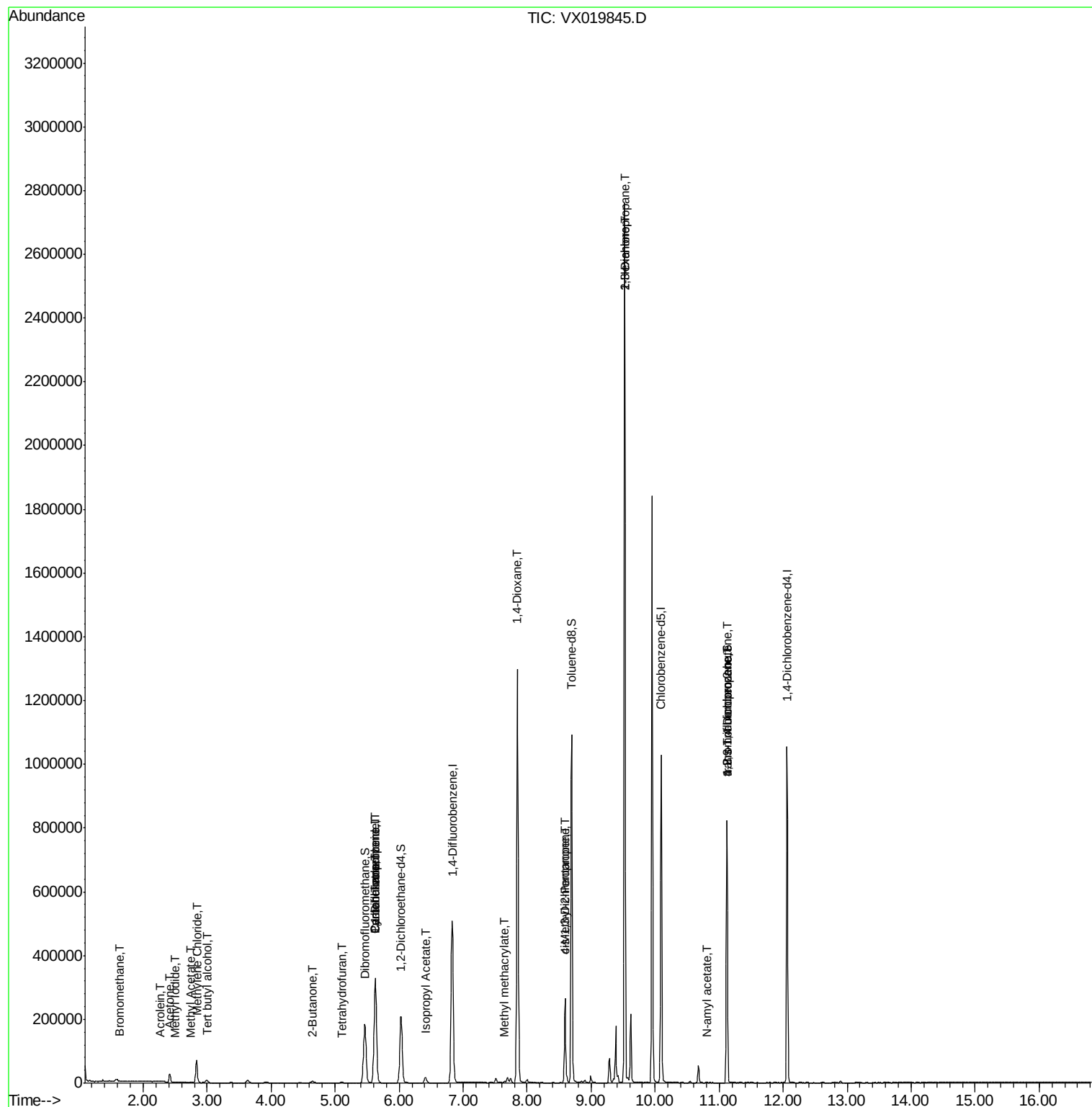
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
5) Bromomethane	1.64	94	888	0.751	ug/l	98
10) Methyl Iodide	2.50	142	1053	0.251	ug/l #	96
11) Tert butyl alcohol	3.00	59	6006	4.522	ug/l #	77
13) Acrolein	2.28	56	240	0.528	ug/l #	38
16) Acetone	2.42	43	27693	17.876	ug/l	100
18) Methyl Acetate	2.75	43	3003	0.792	ug/l #	89
20) Methylene Chloride	2.84	84	33975	8.424	ug/l	98
25) 2-Butanone	4.64	43	4179	1.756	ug/l	98
29) Tetrahydrofuran	5.10	42	1135	0.740	ug/l #	59
31) Cyclohexane	5.63	56	6359	1.240	ug/l #	1
36) 1,1-Dichloropropene	5.62	75	23824	5.018	ug/l #	48
38) Carbon Tetrachloride	5.63	117	30738	6.612	ug/l #	16
43) Isopropyl Acetate	6.42	43	22118	2.838	ug/l	99
48) Methyl methacrylate	7.65	41	6110	1.594	ug/l #	10
49) 1,4-Dioxane	7.85	88	219	2.359	ug/l #	1
51) 4-Methyl-2-Pentanone	8.59	43	82151	17.267	ug/l #	48
54) cis-1,3-Dichloropropene	8.59	75	43902	7.498	ug/l #	60
57) 1,3-Dichloropropane	9.52	76	23880	3.826	ug/l #	43
59) 2-Hexanone	9.52	43	292426	79.293	ug/l #	47
74) N-amyl acetate	10.80	43	1464	0.249	ug/l #	46
76) 1,2,3-Trichloropropane	11.12	75	110450	22.974	ug/l #	39
81) trans-1,4-Dichloro-2-buten	11.12	75	110450	66.413	ug/l #	12

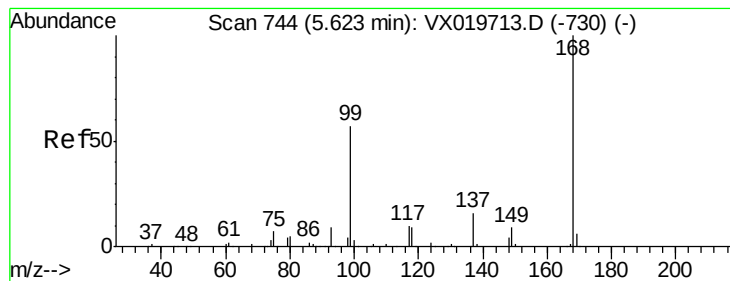
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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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: VX019845.D

Acq: 11 Dec 2020 00:01

Instrument :

MSVOA_X

ClientSampleId :

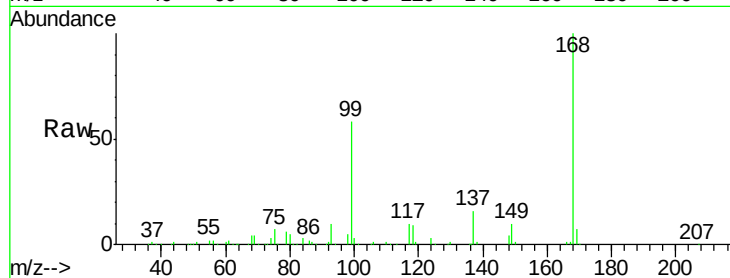
TR1-A-TOP

Tgt Ion:168 Resp: 313596

Ion Ratio Lower Upper

168 100

99 57.7 45.8 68.6



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VX0

5.63

120000

100000

80000

60000

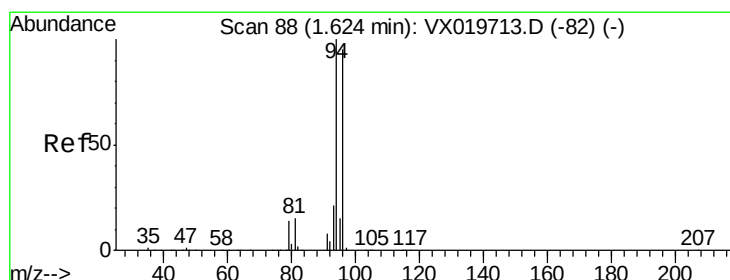
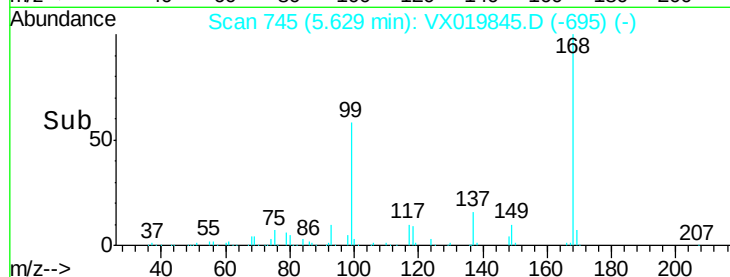
40000

20000

0

Time-->

5.50 5.60 5.70 5.80



#5

Bromomethane

Concen: 0.751 ug/l

RT: 1.64 min Scan# 90

Delta R.T. 0.01 min

Lab File: VX019845.D

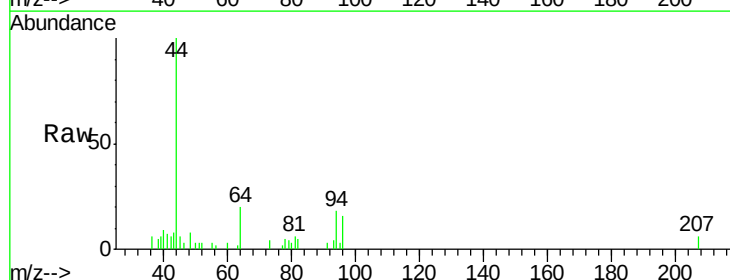
Acq: 11 Dec 2020 00:01

Tgt Ion: 94 Resp: 888

Ion Ratio Lower Upper

94 100

96 93.7 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

500

400

300

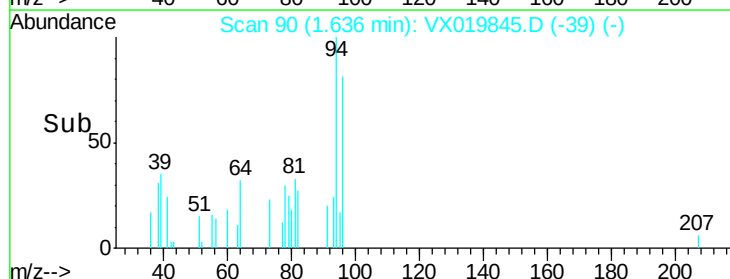
200

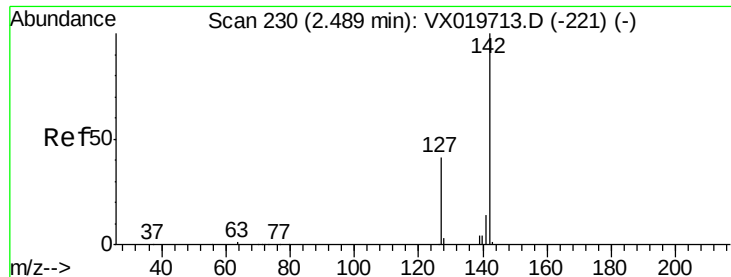
100

0

Time-->

1.60 1.65 1.70

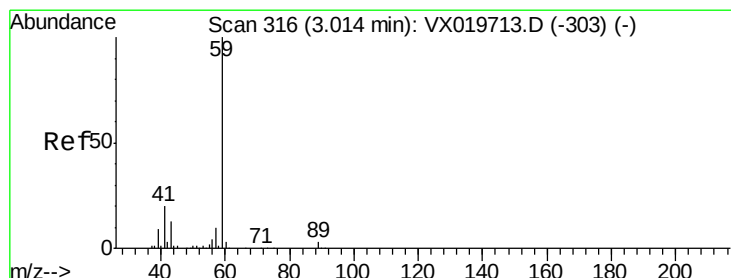
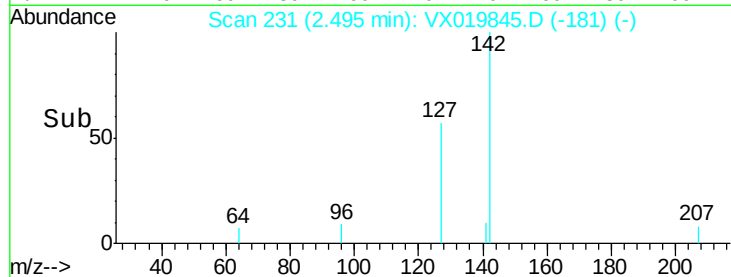
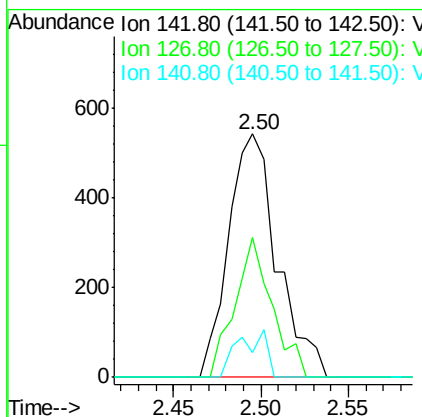
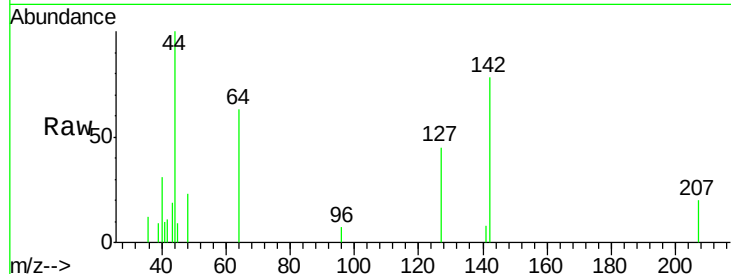




#10
Methyl Iodide
Concen: 0.251 ug/l
RT: 2.50 min Scan# 231
Delta R.T. 0.01 min
Lab File: VX019845.D
Acq: 11 Dec 2020 00:01

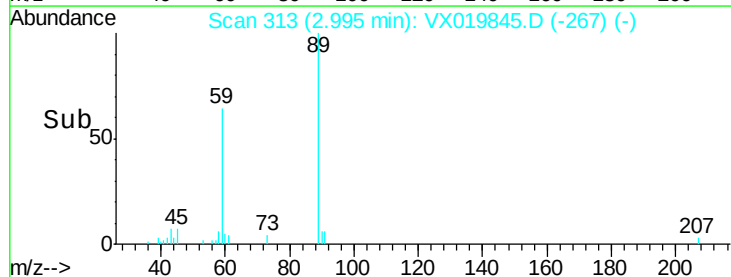
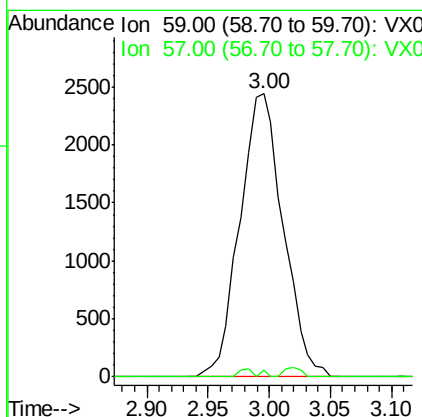
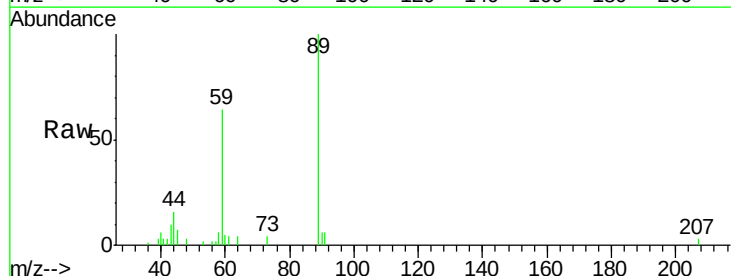
Instrument :
MSVOA_X
ClientSampleId :
TR1-A-TOP

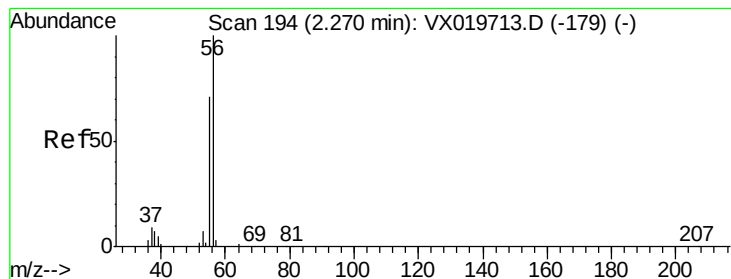
Tgt Ion: 142 Resp: 1053
Ion Ratio Lower Upper
142 100
127 43.7 33.3 49.9
141 11.2 11.4 17.0#



#11
Tert butyl alcohol
Concen: 4.522 ug/l
RT: 3.00 min Scan# 313
Delta R.T. -0.02 min
Lab File: VX019845.D
Acq: 11 Dec 2020 00:01

Tgt Ion: 59 Resp: 6006
Ion Ratio Lower Upper
59 100
57 1.1 7.8 11.8#





#13

Acrolein

Concen: 0.528 ug/l

RT: 2.28 min Scan# 195

Delta R.T. 0.01 min

Lab File: VX019845.D

Acq: 11 Dec 2020 00:01

Instrument :

MSVOA_X

ClientSampled :

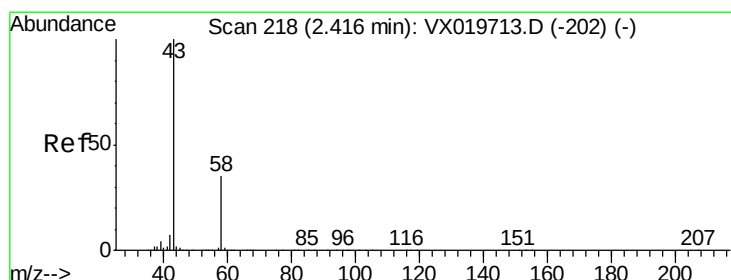
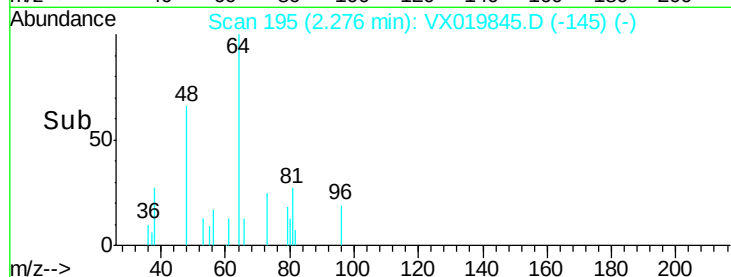
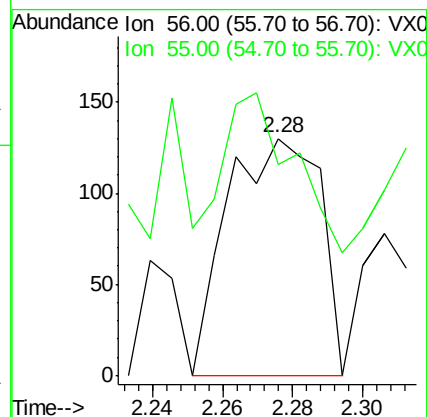
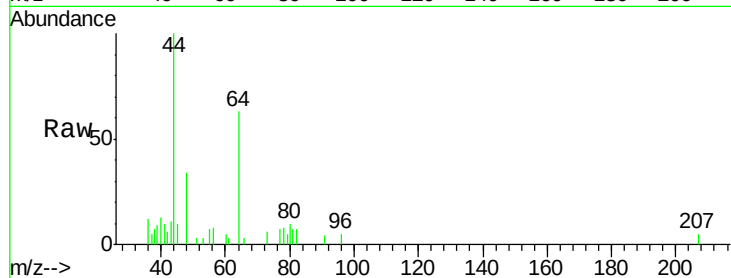
TR1-A-TOP

Tgt Ion: 56 Resp: 240

Ion Ratio Lower Upper

56 100

55 121.7 56.4 84.6#



#16

Acetone

Concen: 17.876 ug/l

RT: 2.42 min Scan# 218

Delta R.T. -0.00 min

Lab File: VX019845.D

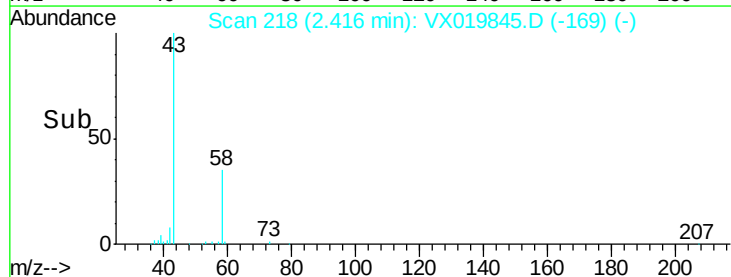
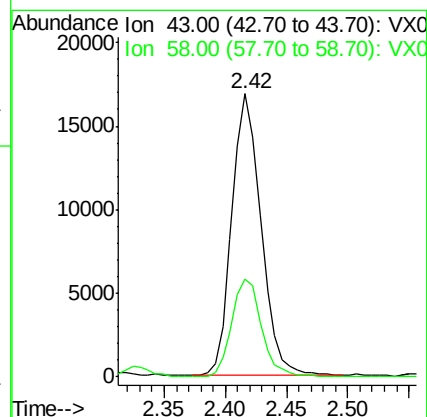
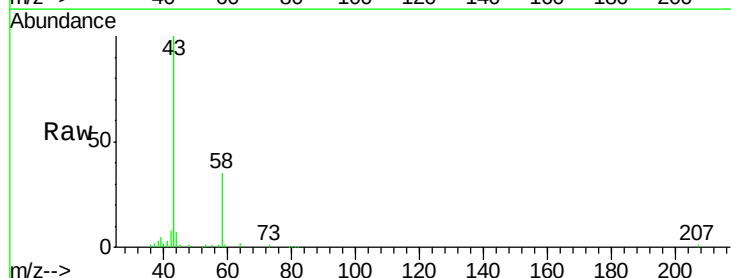
Acq: 11 Dec 2020 00:01

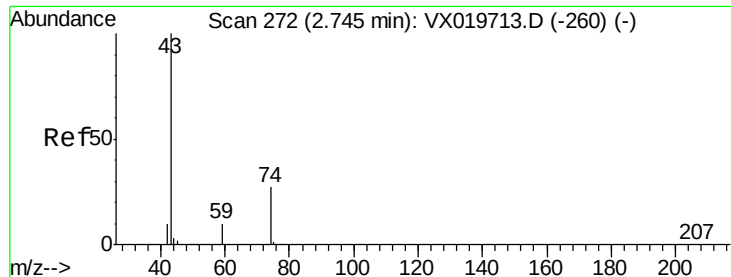
Tgt Ion: 43 Resp: 27693

Ion Ratio Lower Upper

43 100

58 35.0 27.8 41.8

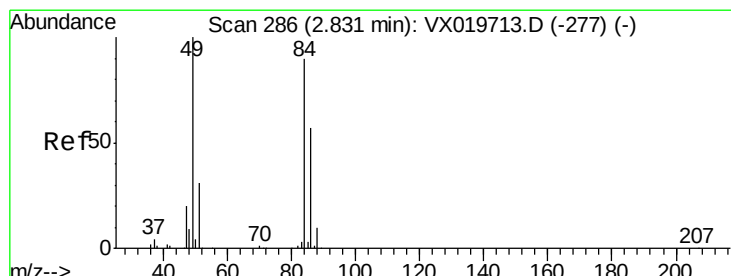
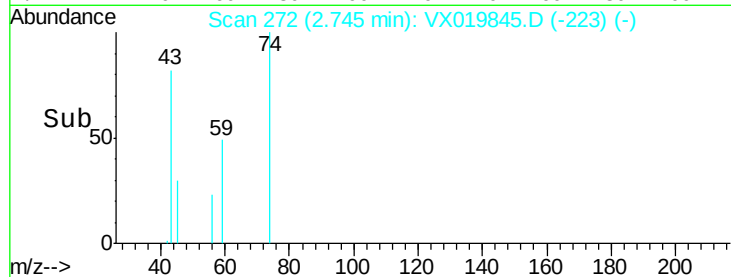
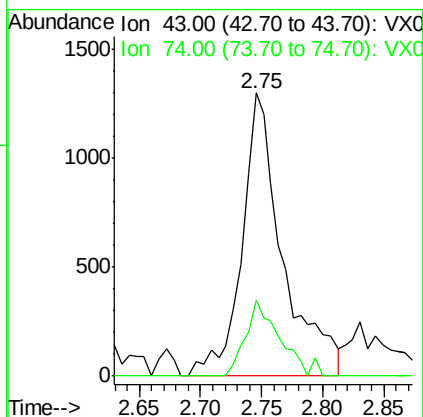
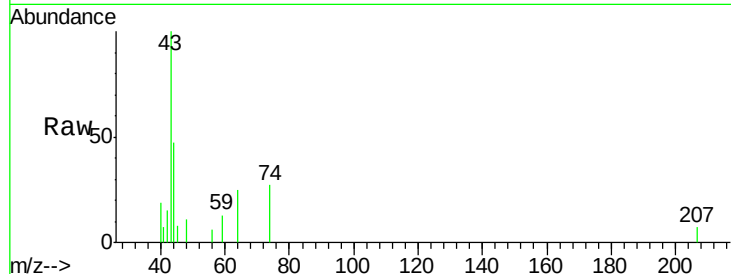




#18
Methyl Acetate
Concen: 0.792 ug/l
RT: 2.75 min Scan# 272
Delta R.T. -0.00 min
Lab File: VX019845.D
Acq: 11 Dec 2020 00:01

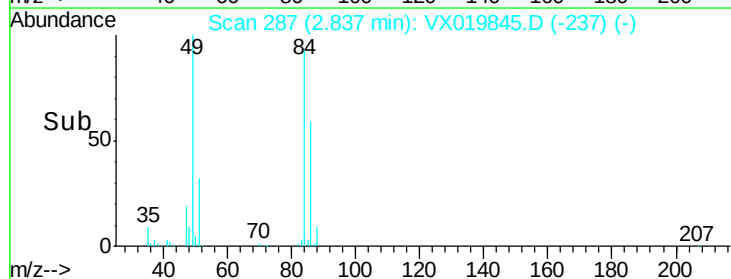
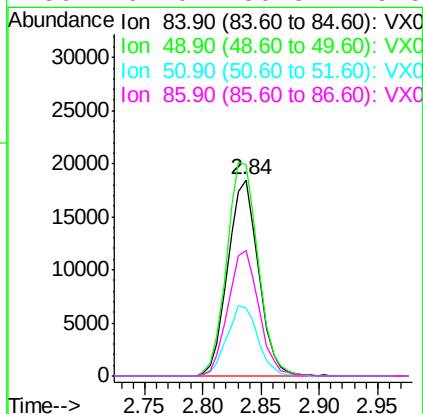
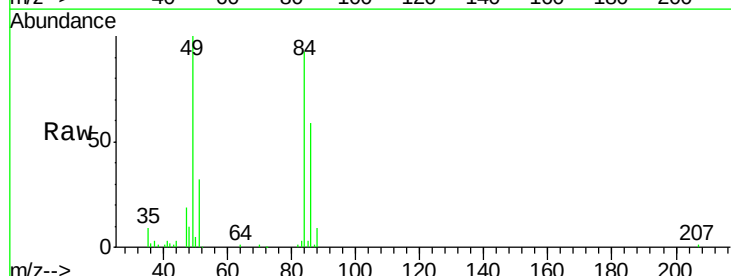
Instrument :
MSVOA_X
ClientSampled :
TR1-A-TOP

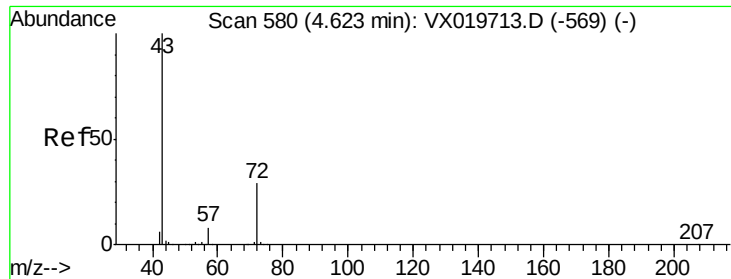
Tgt Ion: 43 Resp: 3003
Ion Ratio Lower Upper
43 100
74 21.6 21.9 32.9#



#20
Methylene Chloride
Concen: 8.424 ug/l
RT: 2.84 min Scan# 287
Delta R.T. 0.01 min
Lab File: VX019845.D
Acq: 11 Dec 2020 00:01

Tgt Ion: 84 Resp: 33975
Ion Ratio Lower Upper
84 100
49 107.7 88.6 132.8
51 34.6 27.0 40.6
86 64.0 50.3 75.5





#25

2-Butanone

Concen: 1.756 ug/l

RT: 4.64 min Scan# 582

Delta R.T. 0.01 min

Lab File: VX019845.D

Acq: 11 Dec 2020 00:01

Instrument :

MSVOA_X

ClientSampled :

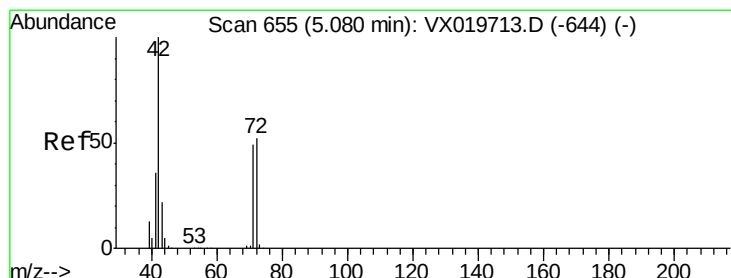
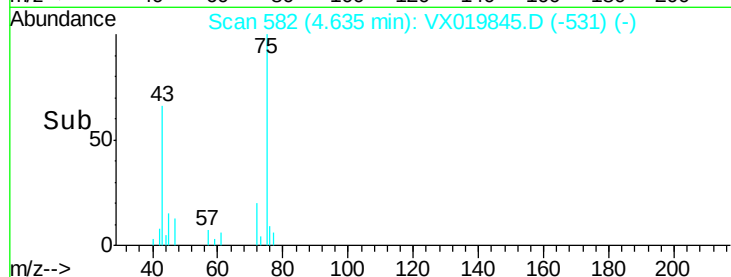
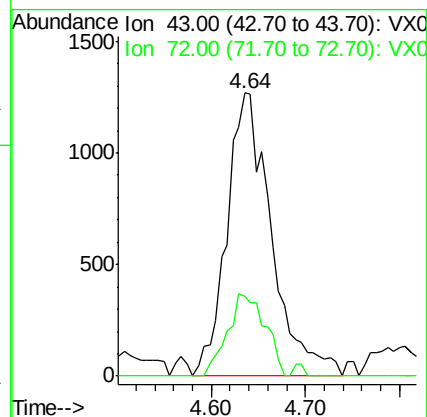
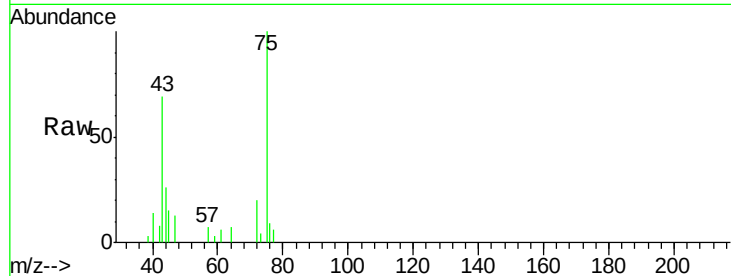
TR1-A-TOP

Tgt Ion: 43 Resp: 4179

Ion Ratio Lower Upper

43 100

72 28.4 23.7 35.5



#29

Tetrahydrofuran

Concen: 0.740 ug/l

RT: 5.10 min Scan# 658

Delta R.T. 0.02 min

Lab File: VX019845.D

Acq: 11 Dec 2020 00:01

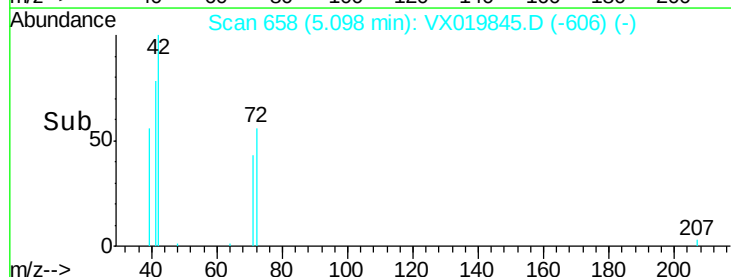
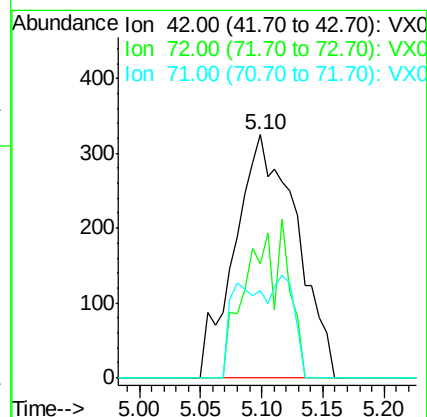
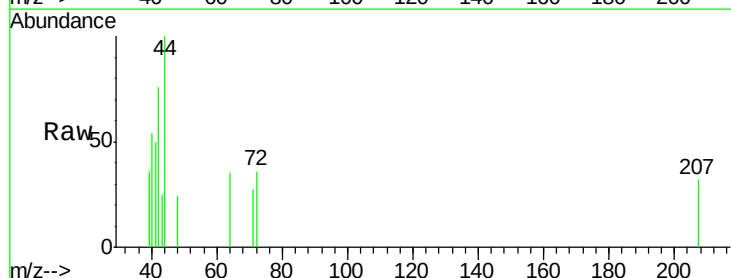
Tgt Ion: 42 Resp: 1135

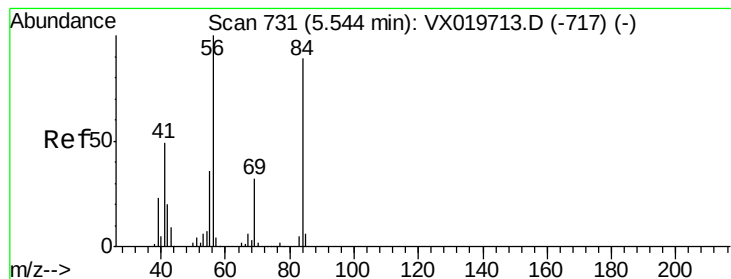
Ion Ratio Lower Upper

42 100

72 29.1 41.7 62.5#

71 14.6 38.4 57.6#





#31

Cyclohexane

Concen: 1.240 ug/l

RT: 5.63 min Scan# 745

Delta R.T. 0.09 min

Lab File: VX019845.D

Acq: 11 Dec 2020 00:01

Instrument :

MSVOA_X

ClientSampled :

TR1-A-TOP

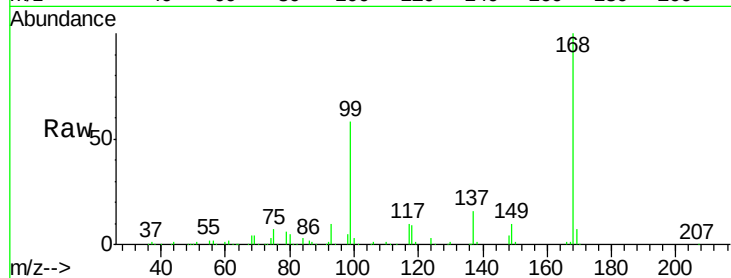
Tgt Ion: 56 Resp: 6359

Ion Ratio Lower Upper

56 100

69 202.3 25.3 37.9#

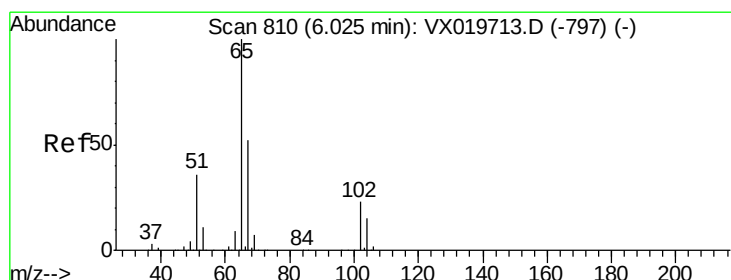
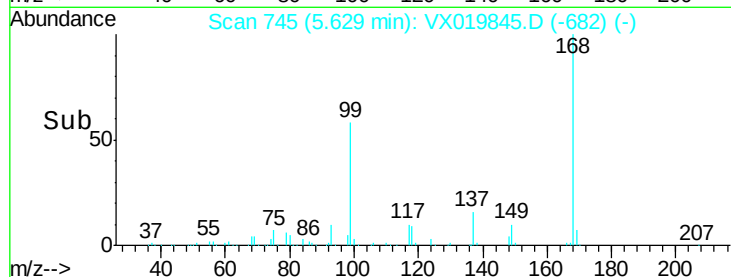
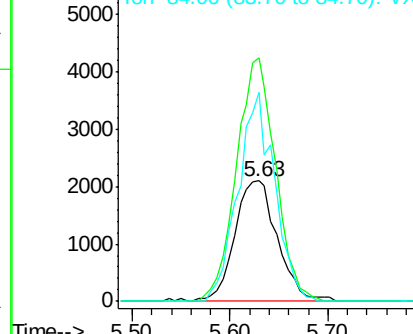
84 173.3 71.4 107.0#



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: 48.610 ug/l

RT: 6.03 min Scan# 811

Delta R.T. 0.01 min

Lab File: VX019845.D

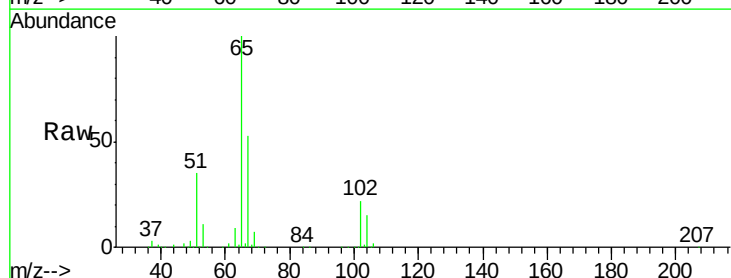
Acq: 11 Dec 2020 00:01

Tgt Ion: 65 Resp: 200349

Ion Ratio Lower Upper

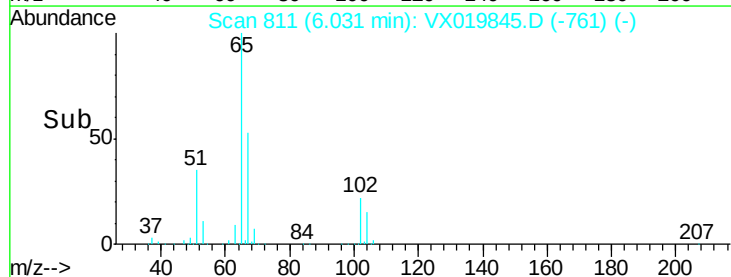
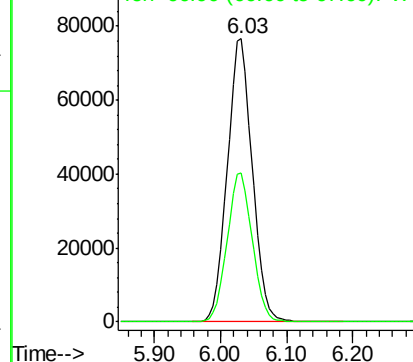
65 100

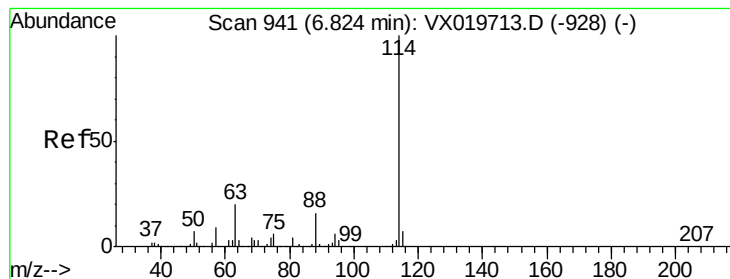
67 52.9 0.0 105.4



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: VX019845.D

Acq: 11 Dec 2020 00:01

Instrument :

MSVOA_X

ClientSampleId :

TR1-A-TOP

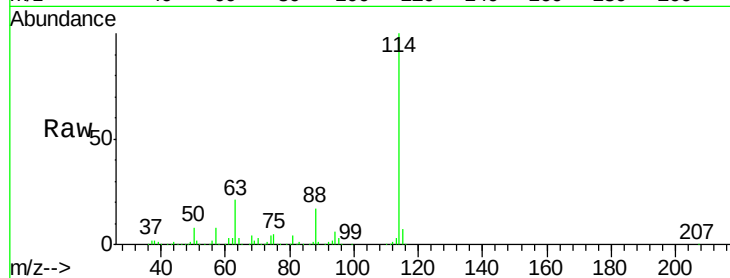
Tgt Ion:114 Resp: 525366

Ion Ratio Lower Upper

114 100

63 20.6 0.0 40.8

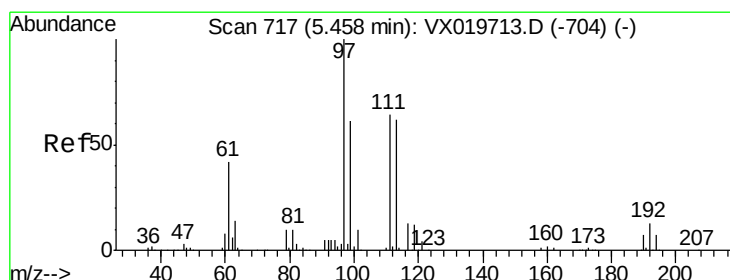
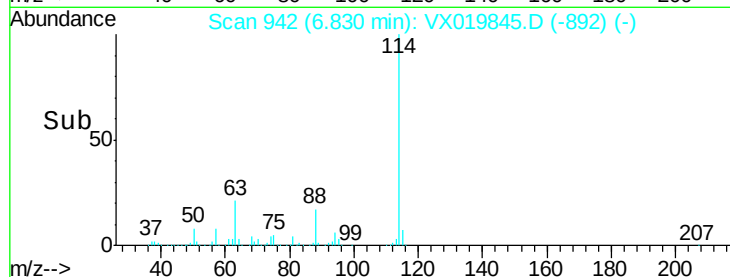
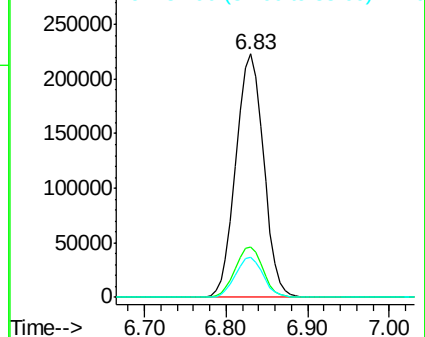
88 16.5 0.0 32.8



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: 48.011 ug/l

RT: 5.46 min Scan# 718

Delta R.T. 0.01 min

Lab File: VX019845.D

Acq: 11 Dec 2020 00:01

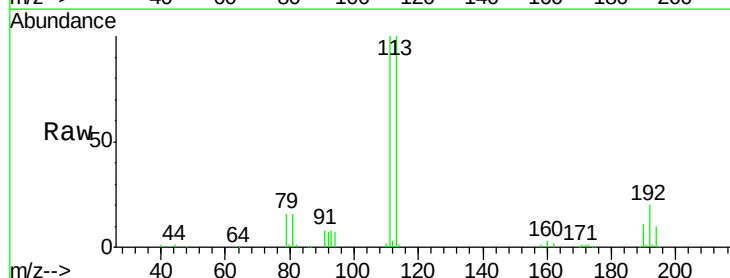
Tgt Ion:113 Resp: 163015

Ion Ratio Lower Upper

113 100

111 102.7 81.9 122.9

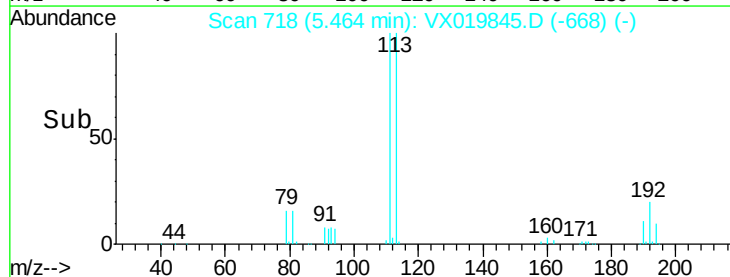
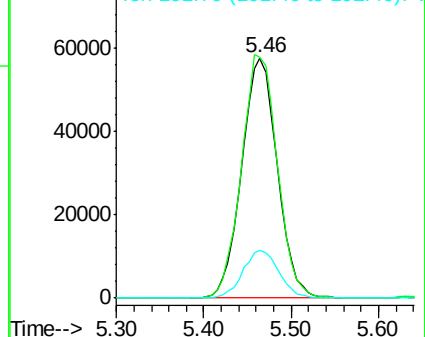
192 20.2 16.7 25.1

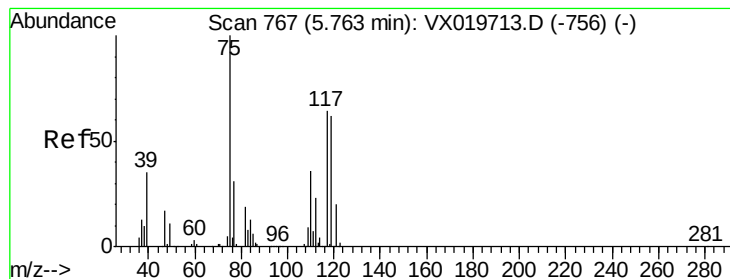


Abundance Ion 112.80 (112.50 to 113.50): V

Ion 110.80 (110.50 to 111.50): V

Ion 191.70 (191.40 to 192.40): V





#36

1,1-Dichloropropene

Concen: 5.018 ug/l

RT: 5.62 min Scan# 744

Delta R.T. -0.14 min

Lab File: VX019845.D

Acq: 11 Dec 2020 00:01

Instrument :

MSVOA_X

ClientSampled :

TR1-A-TOP

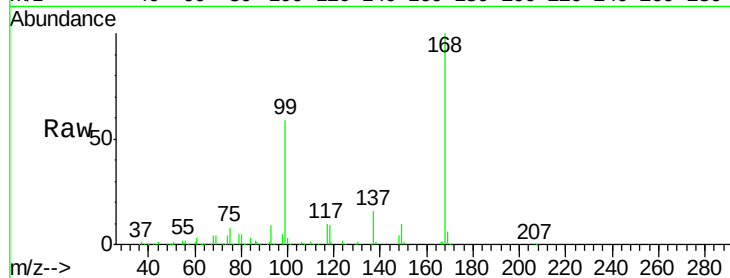
Tgt Ion: 75 Resp: 23824

Ion Ratio Lower Upper

75 100

110 8.7 18.1 54.4#

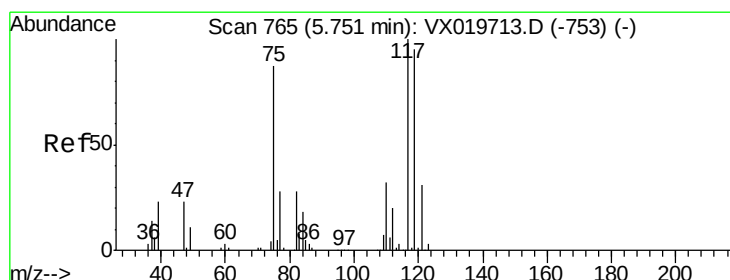
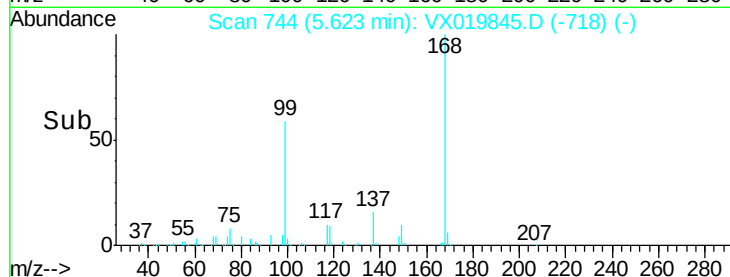
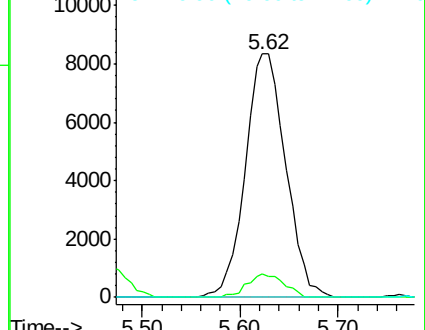
77 0.0 25.3 37.9#



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: 6.612 ug/l

RT: 5.63 min Scan# 745

Delta R.T. -0.12 min

Lab File: VX019845.D

Acq: 11 Dec 2020 00:01

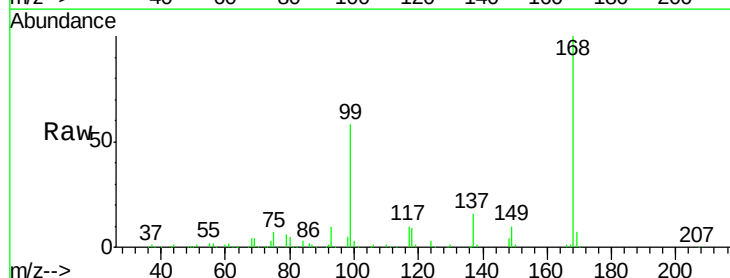
Tgt Ion: 117 Resp: 30738

Ion Ratio Lower Upper

117 100

119 5.2 76.2 114.2#

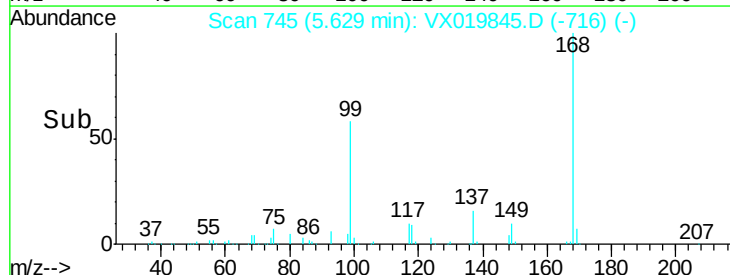
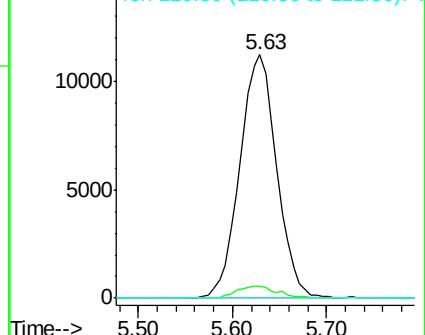
121 0.0 24.8 37.2#

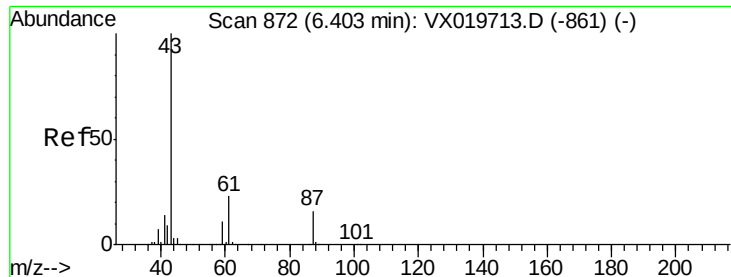


Abundance Ion 116.80 (116.50 to 117.50): V

Ion 118.80 (118.50 to 119.50): V

Ion 120.80 (120.50 to 121.50): V





#43

Isopropyl Acetate

Concen: 2.838 ug/l

RT: 6.42 min Scan# 874

Delta R.T. 0.01 min

Lab File: VX019845.D

Acq: 11 Dec 2020 00:01

Instrument :

MSVOA_X

ClientSampled :

TR1-A-TOP

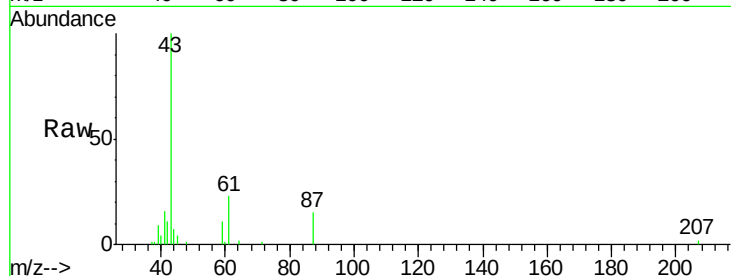
Tgt Ion: 43 Resp: 22118

Ion Ratio Lower Upper

43 100

61 23.1 18.2 27.4

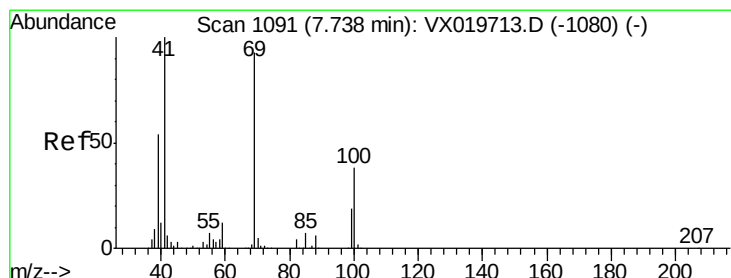
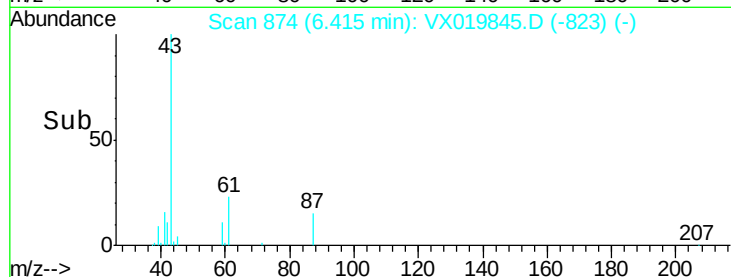
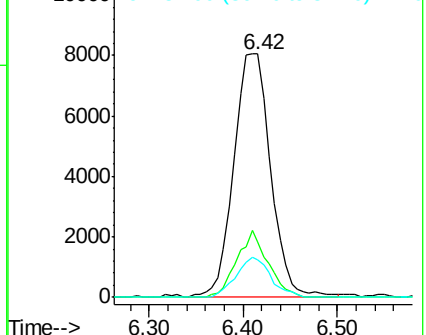
87 15.3 12.5 18.7



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: 1.594 ug/l

RT: 7.65 min Scan# 1076

Delta R.T. -0.09 min

Lab File: VX019845.D

Acq: 11 Dec 2020 00:01

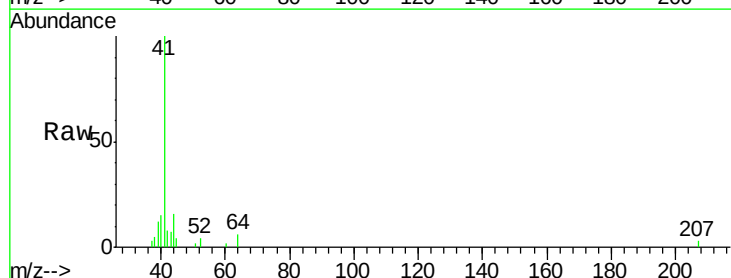
Tgt Ion: 41 Resp: 6110

Ion Ratio Lower Upper

41 100

69 0.0 76.0 114.0#

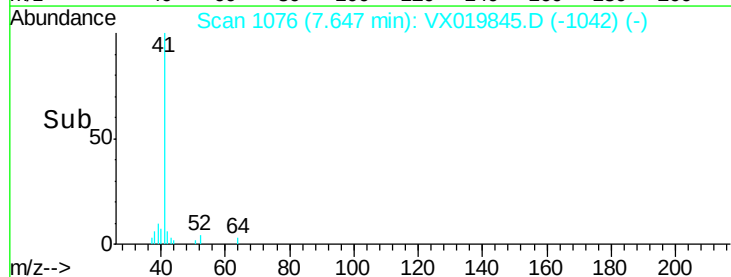
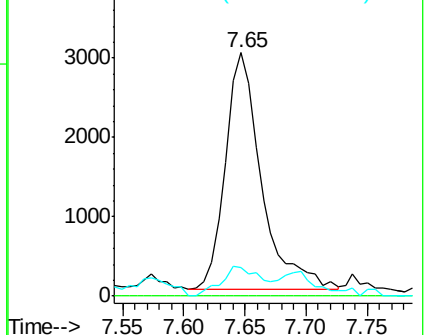
39 0.0 44.6 67.0#

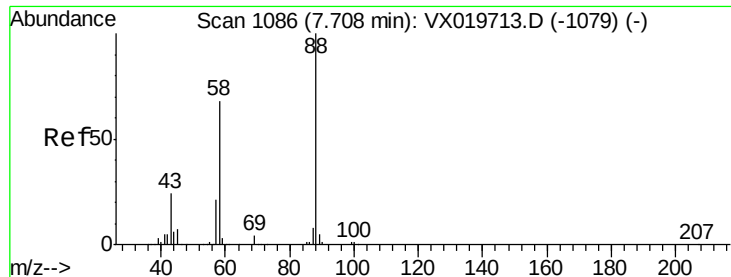


Abundance Ion 41.00 (40.70 to 41.70): VX0

Ion 69.00 (68.70 to 69.70): VX0

Ion 39.00 (38.70 to 39.70): VX0





#49

1,4-Dioxane

Concen: 2.359 ug/l

RT: 7.85 min Scan# 1109

Delta R.T. 0.14 min

Lab File: VX019845.D

Acq: 11 Dec 2020 00:01

Instrument :

MSVOA_X

ClientSampleId :

TR1-A-TOP

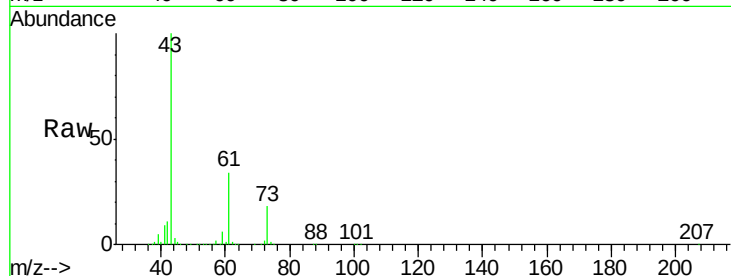
Tgt Ion: 88 Resp: 219

Ion Ratio Lower Upper

88 100

43 502708.7 23.2 34.8#

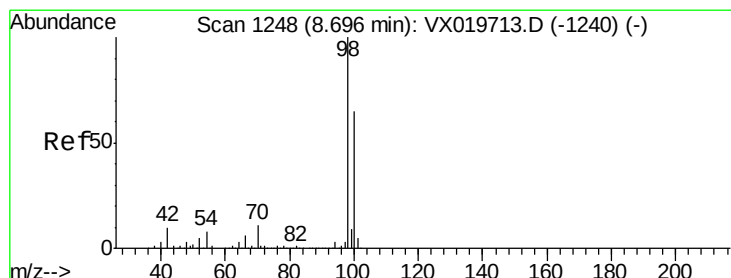
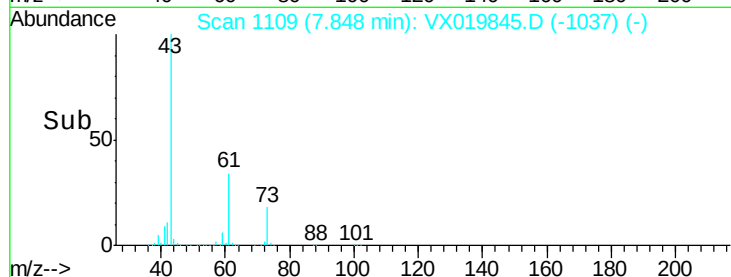
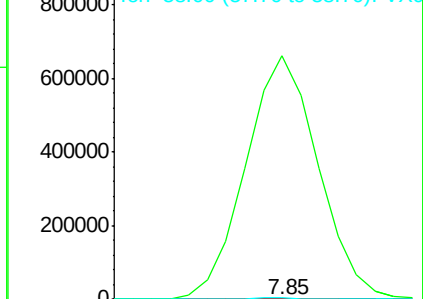
58 2583.6 55.0 82.4#



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: 49.687 ug/l

RT: 8.70 min Scan# 1248

Delta R.T. -0.00 min

Lab File: VX019845.D

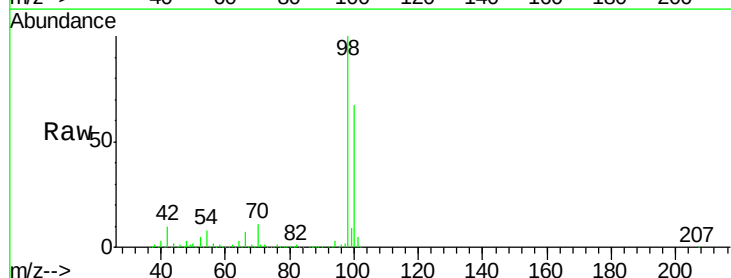
Acq: 11 Dec 2020 00:01

Tgt Ion: 98 Resp: 644068

Ion Ratio Lower Upper

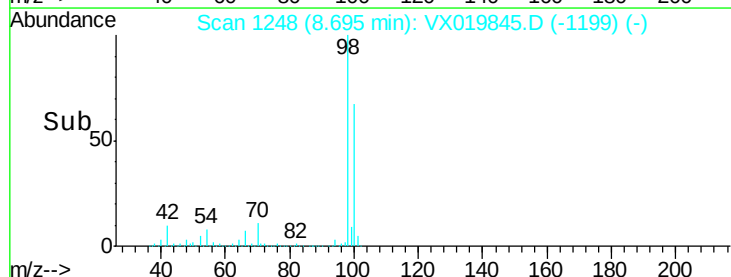
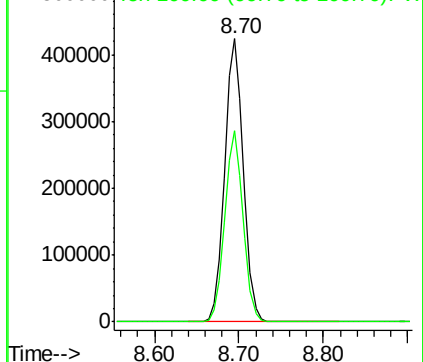
98 100

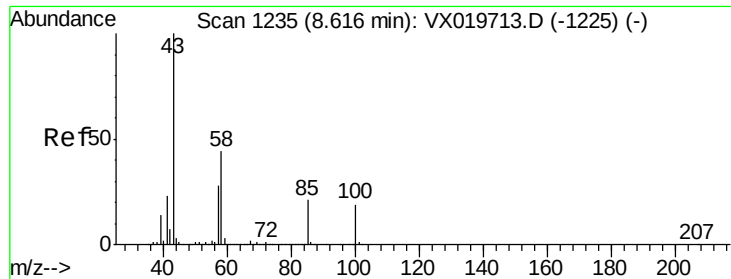
100 66.5 51.9 77.9



Abundance Ion 98.00 (97.70 to 98.70): VX0

Ion 100.00 (99.70 to 100.70): VX0

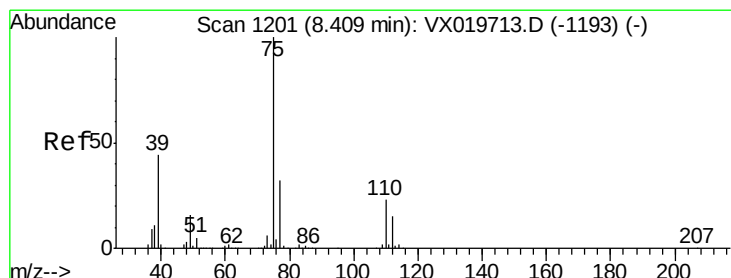
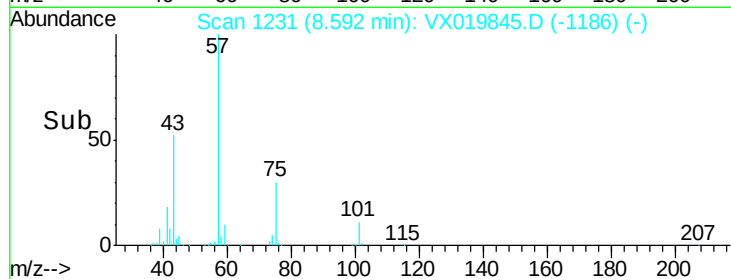
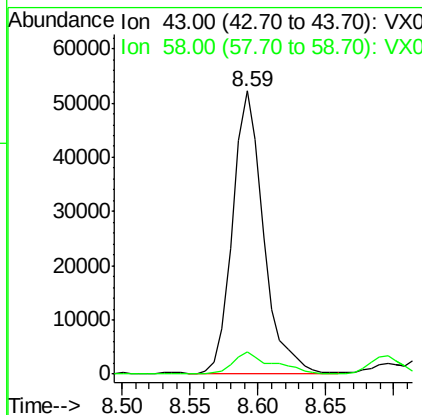
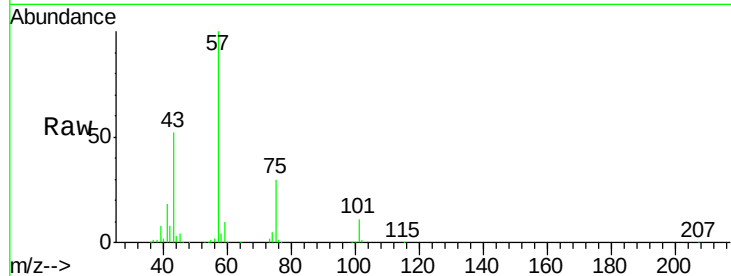




#51
 4-Methyl-2-Pentanone
 Concen: 17.267 ug/l
 RT: 8.59 min Scan# 1231
 Delta R.T. -0.02 min
 Lab File: VX019845.D
 Acq: 11 Dec 2020 00:01

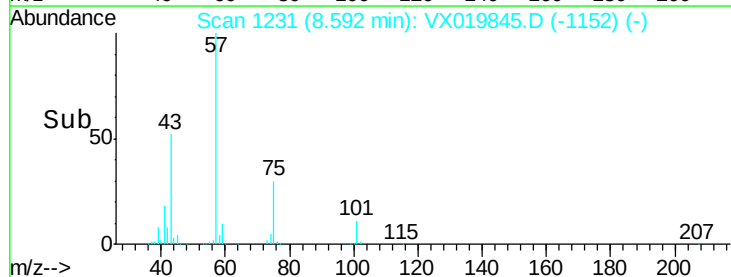
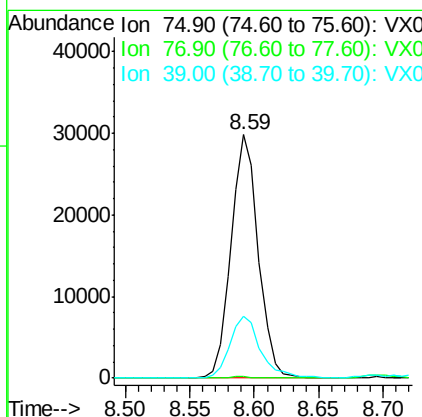
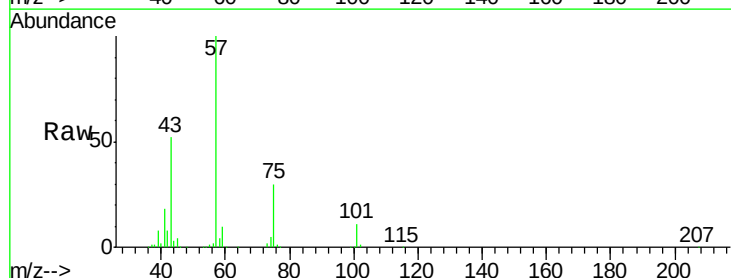
Instrument :
 MSVOA_X
 ClientSampled :
 TR1-A-TOP

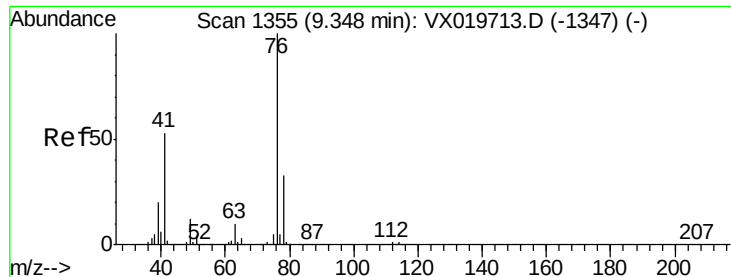
Tgt Ion: 43 Resp: 82151
 Ion Ratio Lower Upper
 43 100
 58 10.3 35.4 53.0#



#54
 cis-1,3-Dichloropropene
 Concen: 7.498 ug/l
 RT: 8.59 min Scan# 1231
 Delta R.T. 0.18 min
 Lab File: VX019845.D
 Acq: 11 Dec 2020 00:01

Tgt Ion: 75 Resp: 43902
 Ion Ratio Lower Upper
 75 100
 77 0.6 25.7 38.5#
 39 25.6 35.1 52.7#

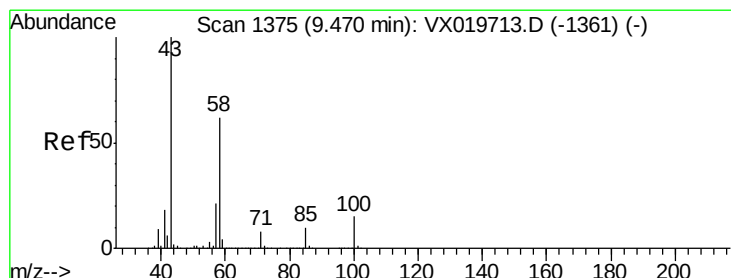
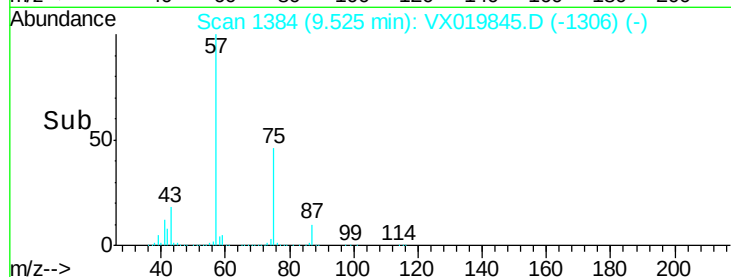
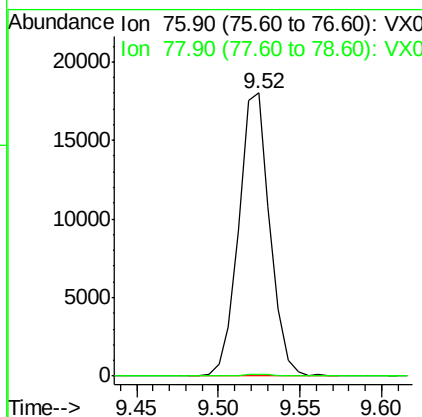
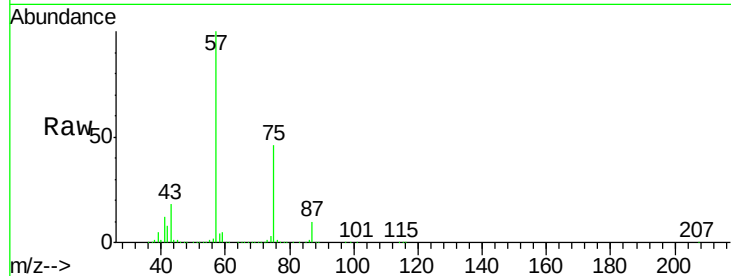




#57
 1,3-Dichloropropane
 Concen: 3.826 ug/l
 RT: 9.52 min Scan# 1384
 Delta R.T. 0.18 min
 Lab File: VX019845.D
 Acq: 11 Dec 2020 00:01

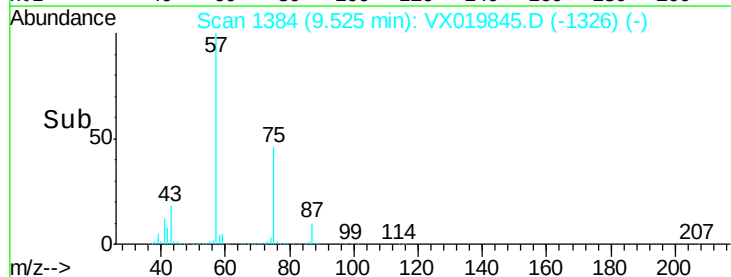
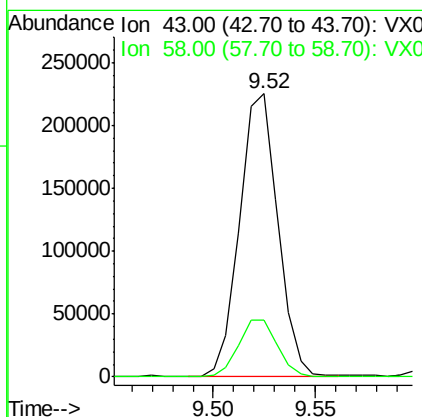
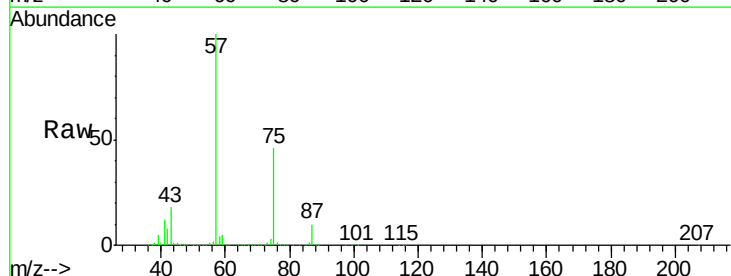
Instrument :
 MSVOA_X
 ClientSampleId :
 TR1-A-TOP

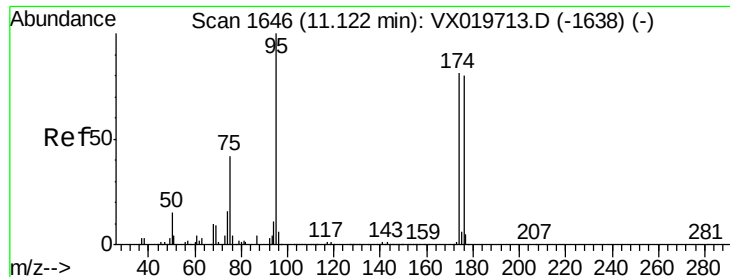
Tgt Ion: 76 Resp: 23880
 Ion Ratio Lower Upper
 76 100
 78 0.6 26.2 39.2#



#59
 2-Hexanone
 Concen: 79.293 ug/l
 RT: 9.52 min Scan# 1384
 Delta R.T. 0.05 min
 Lab File: VX019845.D
 Acq: 11 Dec 2020 00:01

Tgt Ion: 43 Resp: 292426
 Ion Ratio Lower Upper
 43 100
 58 20.8 30.9 92.8#





#62

4-Bromofluorobenzene

Concen: 45.961 ug/l

RT: 11.12 min Scan# 1646

Delta R.T. -0.00 min

Lab File: VX019845.D

Acq: 11 Dec 2020 00:01

Instrument :

MSVOA_X

ClientSampleId :

TR1-A-TOP

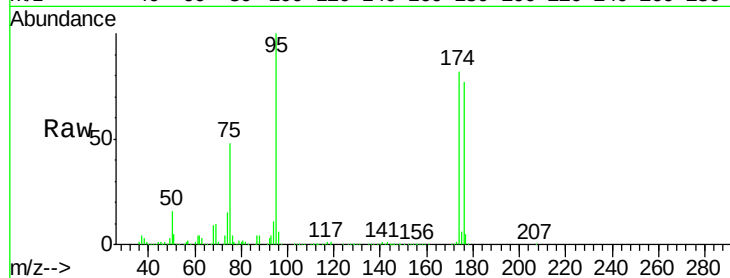
Tgt Ion: 95 Resp: 226759

Ion Ratio Lower Upper

95 100

174 78.2 0.0 154.6

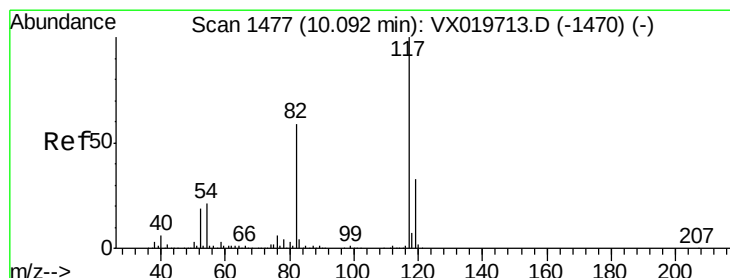
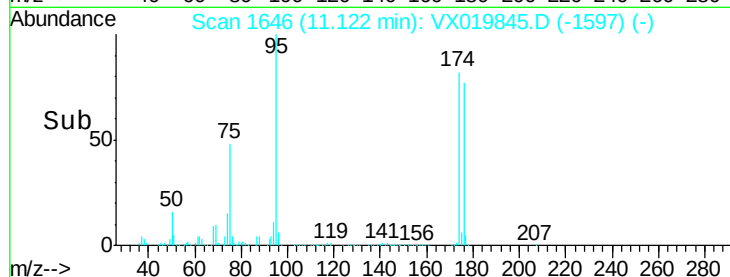
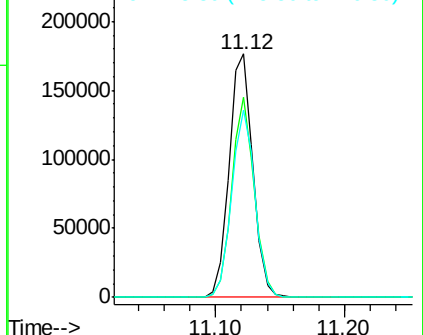
176 75.8 0.0 155.8



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: VX019845.D

Acq: 11 Dec 2020 00:01

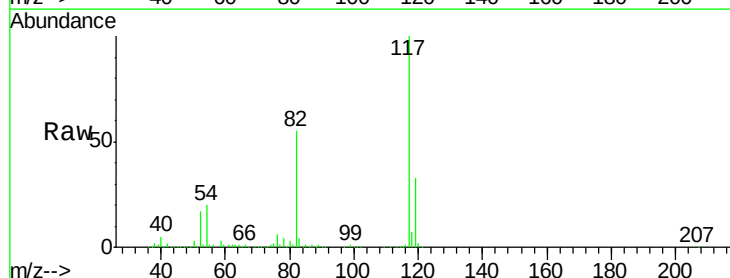
Tgt Ion: 117 Resp: 489573

Ion Ratio Lower Upper

117 100

82 55.4 47.4 71.2

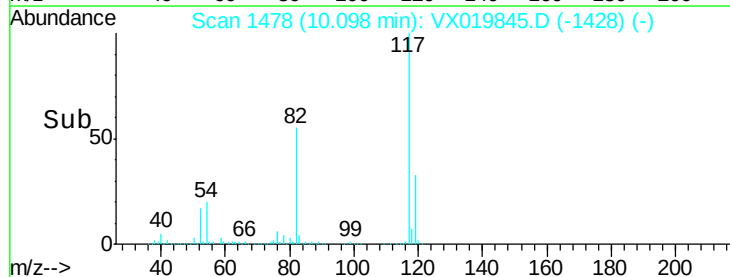
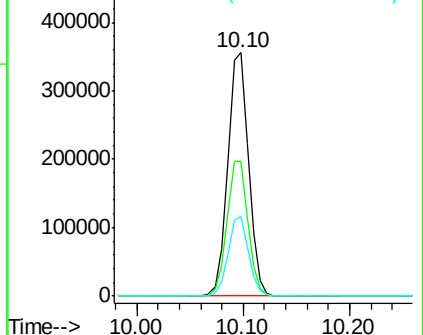
119 32.9 26.6 39.8

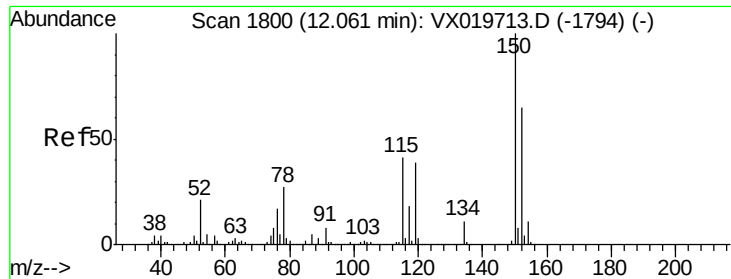


Abundance Ion 116.90 (116.60 to 117.60): V

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: VX019845.D

Acq: 11 Dec 2020 00:01

Instrument :

MSVOA_X

ClientSampled :

TR1-A-TOP

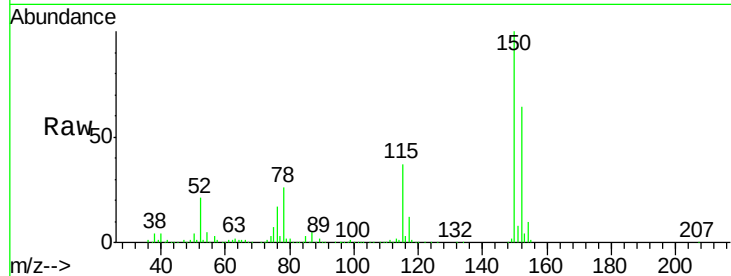
Tgt Ion:152 Resp: 214356

Ion Ratio Lower Upper

152 100

115 59.5 41.1 123.3

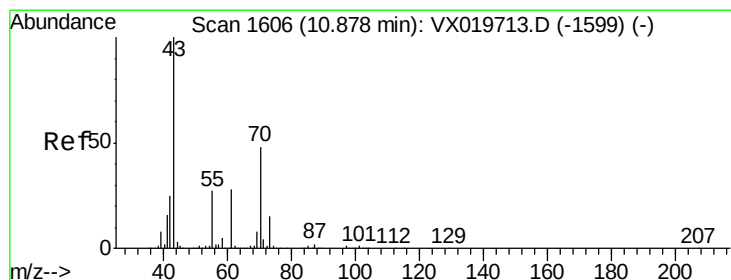
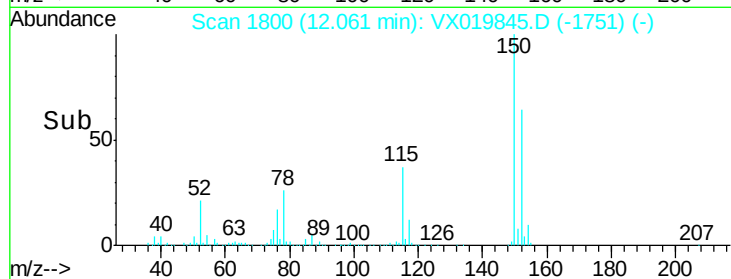
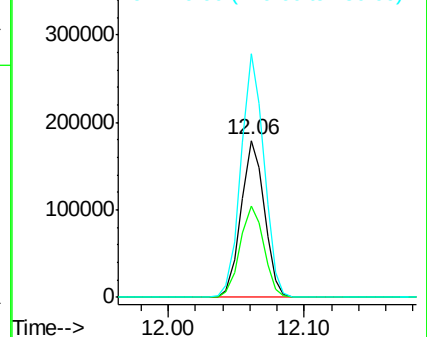
150 153.3 0.0 349.0



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: 0.249 ug/l

RT: 10.80 min Scan# 1594

Delta R.T. -0.07 min

Lab File: VX019845.D

Acq: 11 Dec 2020 00:01

Tgt Ion: 43 Resp: 1464

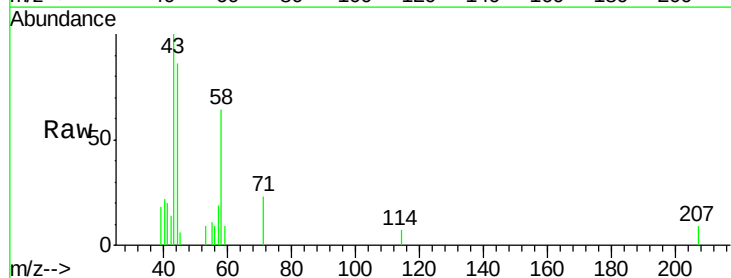
Ion Ratio Lower Upper

43 100

70 0.0 39.0 58.6#

55 14.1 21.5 32.3#

61 0.0 22.1 33.1#

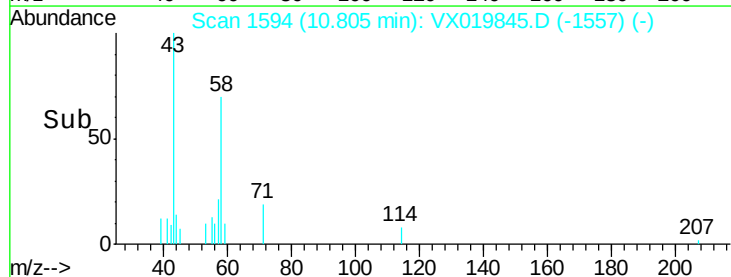
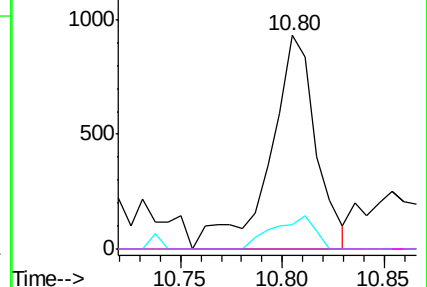


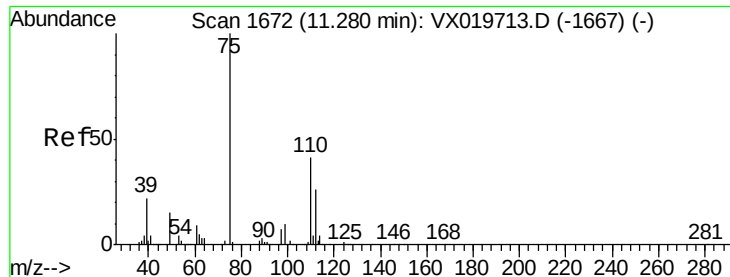
Abundance Ion 43.00 (42.70 to 43.70): VX0

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: 22.974 ug/l

RT: 11.12 min Scan# 1646

Delta R.T. -0.16 min

Lab File: VX019845.D

Acq: 11 Dec 2020 00:01

Instrument :

MSVOA_X

ClientSampleId :

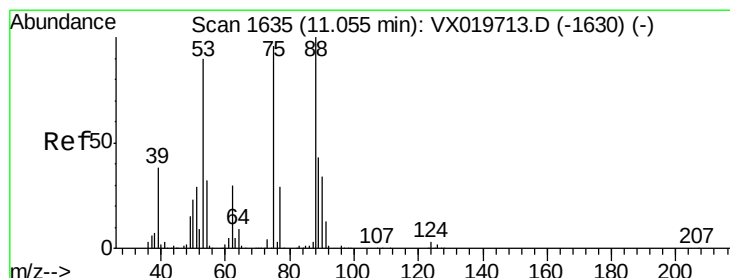
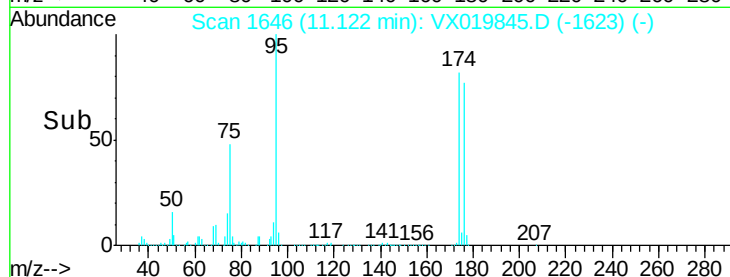
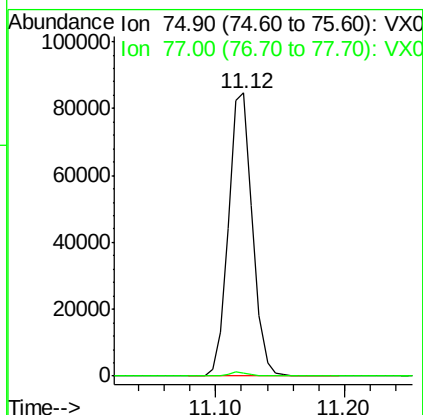
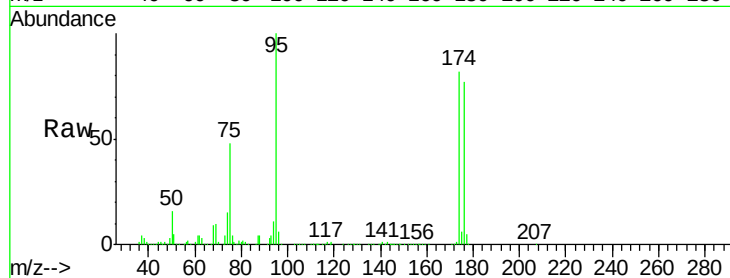
TR1-A-TOP

Tgt Ion: 75 Resp: 110450

Ion Ratio Lower Upper

75 100

77 1.3 19.1 57.5#



#81

trans-1,4-Dichloro-2-butene

Concen: 66.413 ug/l

RT: 11.12 min Scan# 1646

Delta R.T. 0.07 min

Lab File: VX019845.D

Acq: 11 Dec 2020 00:01

Tgt Ion: 75 Resp: 110450

Ion Ratio Lower Upper

75 100

53 0.1 74.5 111.7#

89 0.0 37.9 56.9#

