

Data Path : Z:\VOASRV\HPCHEM1\MSVOA_X\DATA\VX121120\
 Data File : VX019909.D
 Acq On : 12 Dec 2020 05:47
 Operator : JC/MD
 Sample : L5025-13
 Misc : 5.0mL/MSVOA_X/WATER
 ALS Vial : 49 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :
 TU032-32-EB-120920

Quant Time: Dec 12 06:55:34 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	319180	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	6.83	114	534433	50.00	ug/l	0.00
63) Chlorobenzene-d5	10.10	117	494749	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.06	152	216099	50.00	ug/l	0.00

System Monitoring Compounds

33) 1,2-Dichloroethane-d4	6.03	65	204591	48.77	ug/l	0.00
Spiked Amount	50.000	Range	61 - 141	Recovery	=	97.54%
35) Dibromofluoromethane	5.46	113	164270	47.56	ug/l	0.00
Spiked Amount	50.000	Range	69 - 133	Recovery	=	95.12%
50) Toluene-d8	8.70	98	644886	48.91	ug/l	0.00
Spiked Amount	50.000	Range	65 - 126	Recovery	=	97.82%
62) 4-Bromofluorobenzene	11.12	95	227957	45.42	ug/l	0.00
Spiked Amount	50.000	Range	58 - 135	Recovery	=	90.84%

Target Compounds

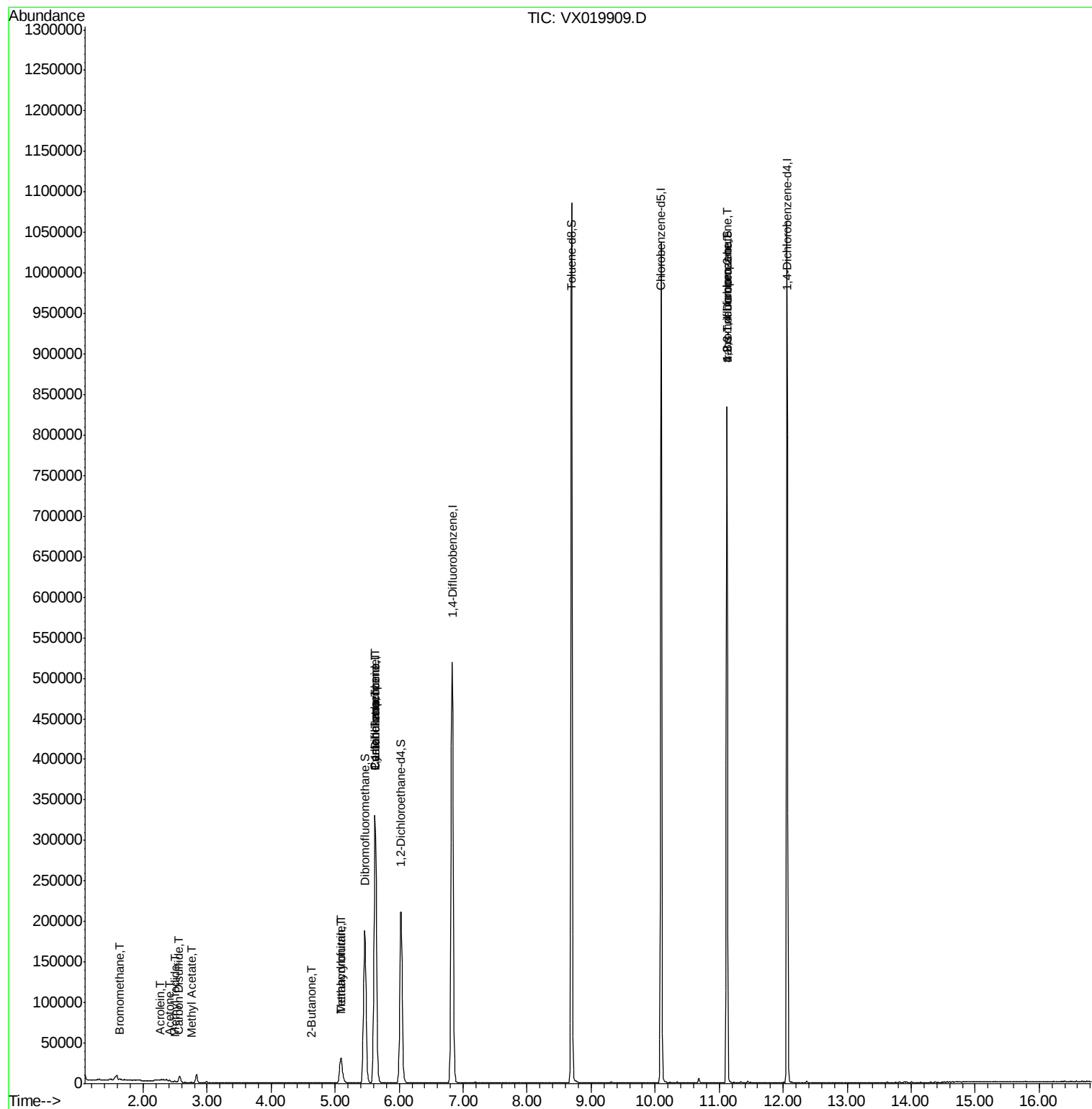
					Qvalue
5) Bromomethane	1.64	94	710	0.590 ug/l	90
10) Methyl Iodide	2.50	142	1238	0.290 ug/l	97
11) Tert butyl alcohol	3.00	59	1067	Below Cal	# 73
13) Acrolein	2.26	56	264	0.570 ug/l	# 71
16) Acetone	2.42	43	2266	1.437 ug/l	97
17) Carbon Disulfide	2.55	76	2088	0.249 ug/l	# 95
18) Methyl Acetate	2.75	43	783	0.203 ug/l	# 47
20) Methylene Chloride	2.83	84	4970	Below Cal	95
25) 2-Butanone	4.64	43	1177	0.486 ug/l	99
29) Tetrahydrofuran	5.09	42	28384	18.183 ug/l	97
31) Cyclohexane	5.62	56	6171	1.183 ug/l	# 1
36) 1,1-Dichloropropene	5.63	75	24675	5.109 ug/l	# 48
38) Carbon Tetrachloride	5.62	117	31358	6.631 ug/l	# 16
41) Methacrylonitrile	5.09	41	17060	6.372 ug/l	# 41
76) 1,2,3-Trichloropropane	11.12	75	110060	22.708 ug/l	# 39
81) trans-1,4-Dichloro-2-buten	11.12	75	110060	65.645 ug/l	# 12

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

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#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 5.62 min Scan# 744

Delta R.T. -0.00 min

Lab File: VX019909.D

Acq: 12 Dec 2020 05:47

Instrument :

MSVOA_X

ClientSampleId :

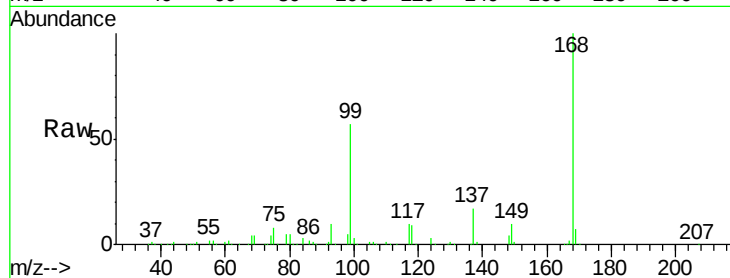
TU032-32-EB-120920

Tgt Ion:168 Resp: 319180

Ion Ratio Lower Upper

168 100

99 57.1 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

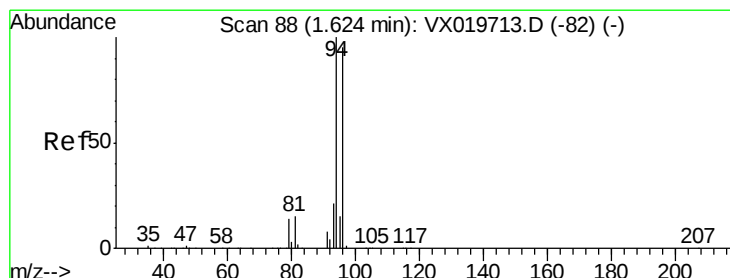
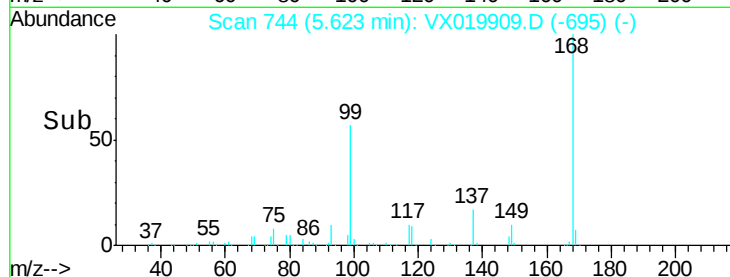
60000

40000

20000

0

Time-->



#5

Bromomethane

Concen: 0.590 ug/l

RT: 1.64 min Scan# 90

Delta R.T. 0.01 min

Lab File: VX019909.D

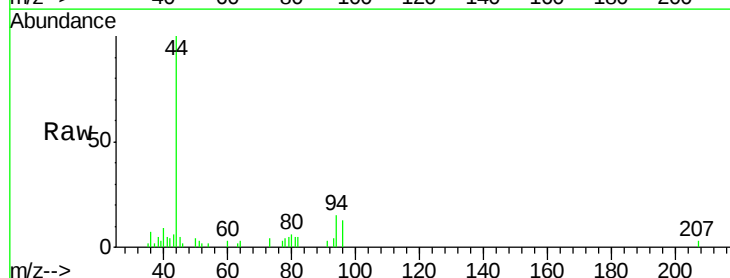
Acq: 12 Dec 2020 05:47

Tgt Ion: 94 Resp: 710

Ion Ratio Lower Upper

94 100

96 86.1 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

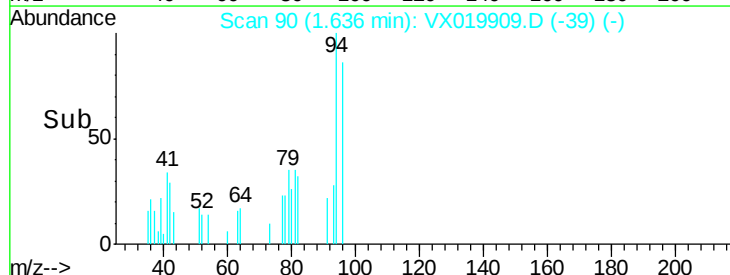
300

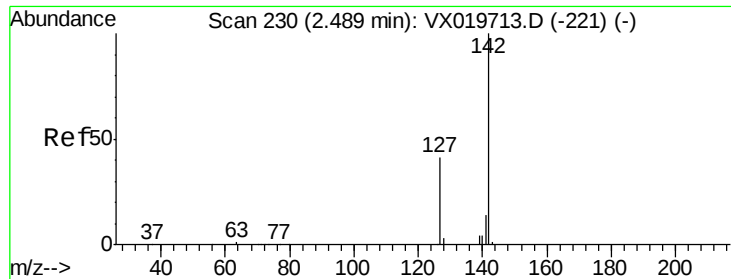
200

100

0

Time-->

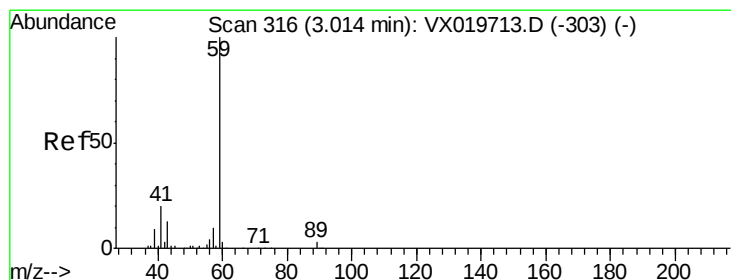
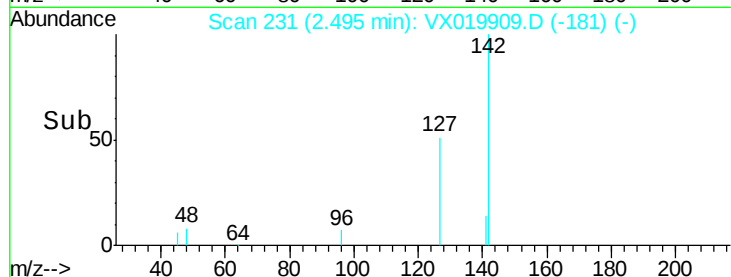
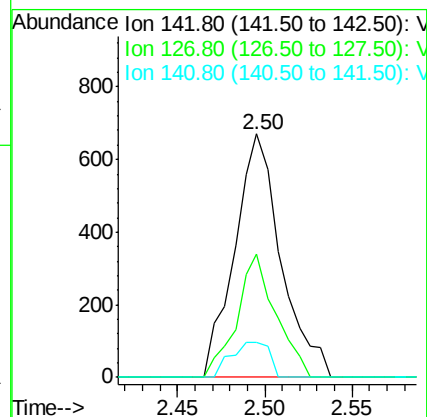
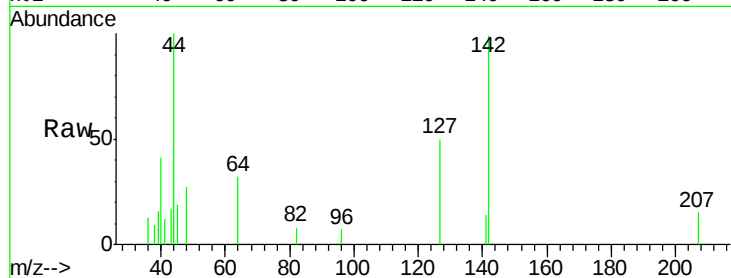




#10
Methyl Iodide
Concen: 0.290 ug/l
RT: 2.50 min Scan# 231
Delta R.T. 0.01 min
Lab File: VX019909.D
Acq: 12 Dec 2020 05:47

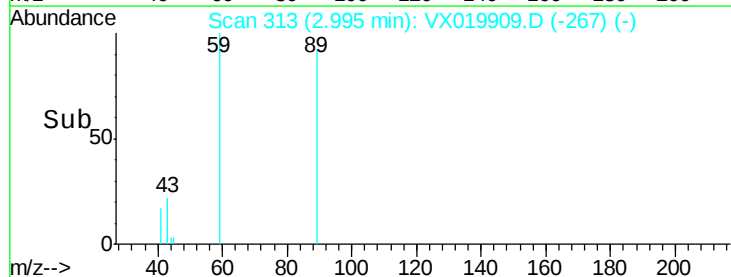
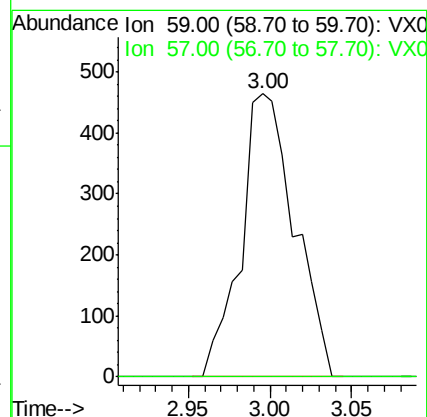
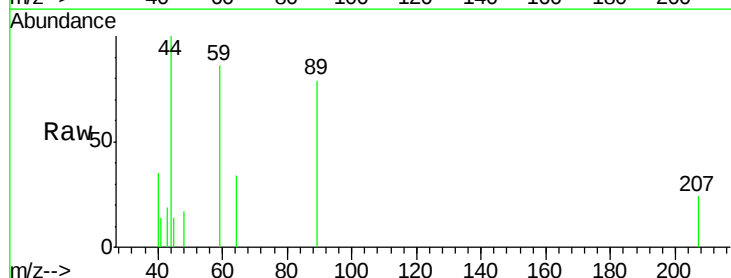
Instrument :
MSVOA_X
ClientSampleId :
TU032-32-EB-120920

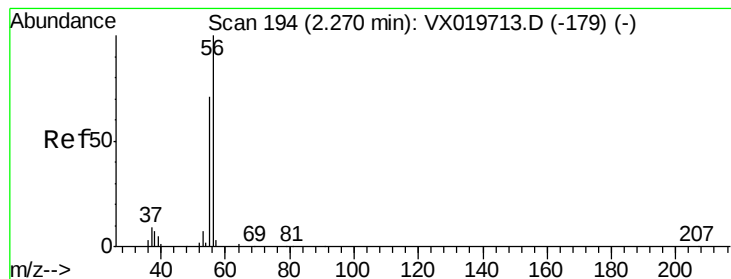
Tgt Ion: 142 Resp: 1238
Ion Ratio Lower Upper
142 100
127 42.4 33.3 49.9
141 11.7 11.4 17.0



#11
Tert butyl alcohol
Concen: Below Cal
RT: 3.00 min Scan# 313
Delta R.T. -0.02 min
Lab File: VX019909.D
Acq: 12 Dec 2020 05:47

Tgt Ion: 59 Resp: 1067
Ion Ratio Lower Upper
59 100
57 0.0 7.8 11.8#





#13

Acrolein

Concen: 0.570 ug/l

RT: 2.26 min Scan# 193

Delta R.T. -0.01 min

Lab File: VX019909.D

Acq: 12 Dec 2020 05:47

Instrument :

MSVOA_X

ClientSampleId :

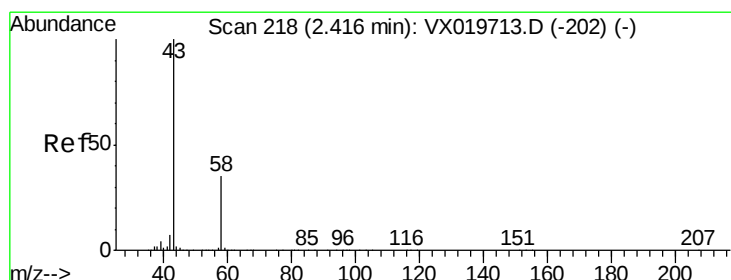
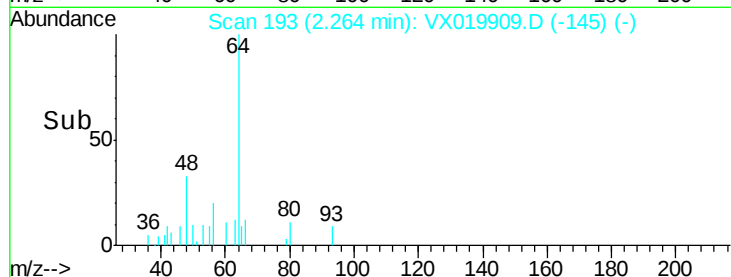
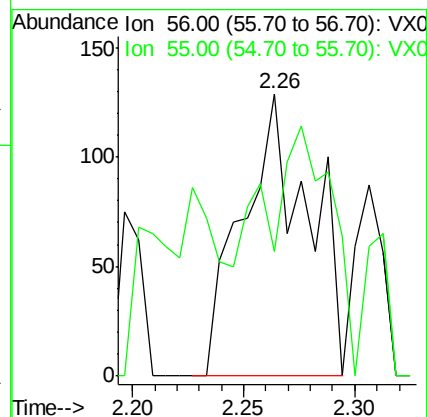
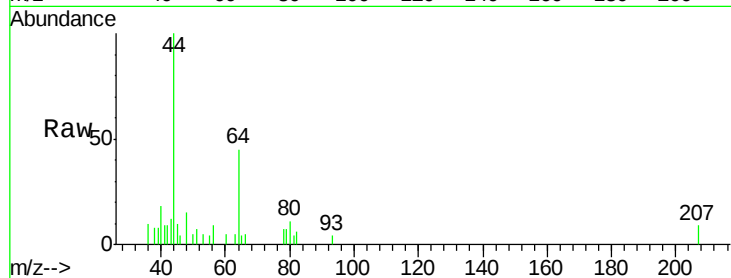
TU032-32-EB-120920

Tgt Ion: 56 Resp: 264

Ion Ratio Lower Upper

56 100

55 94.3 56.4 84.6#



#16

Acetone

Concen: 1.437 ug/l

RT: 2.42 min Scan# 218

Delta R.T. -0.00 min

Lab File: VX019909.D

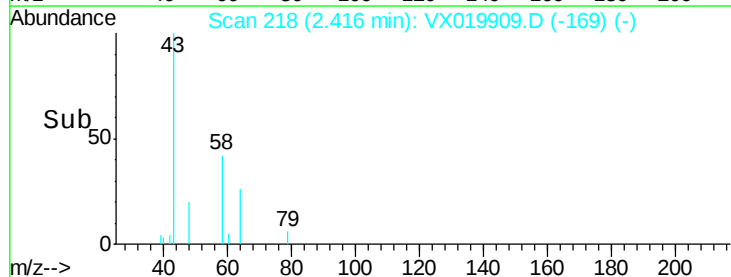
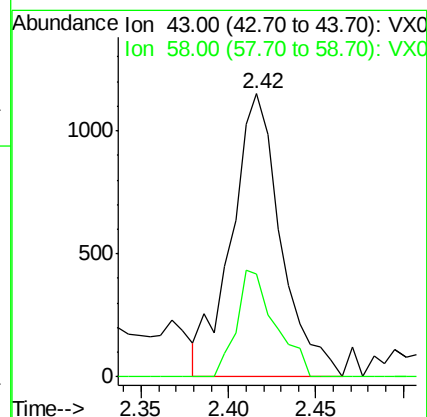
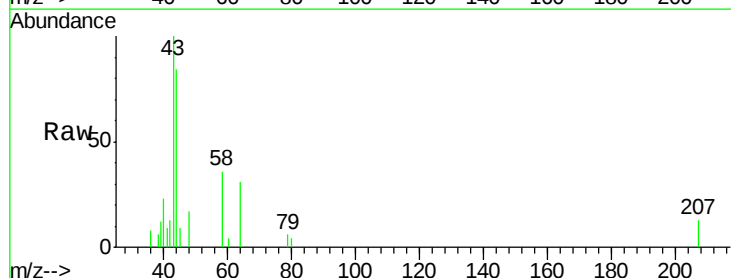
Acq: 12 Dec 2020 05:47

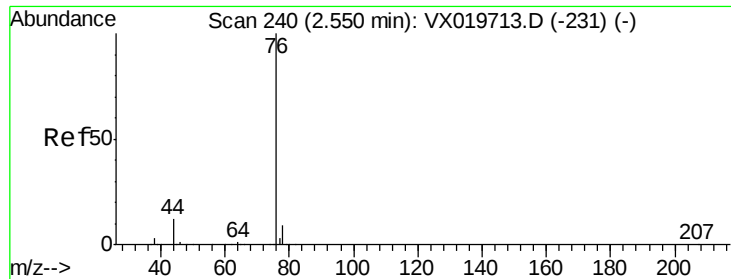
Tgt Ion: 43 Resp: 2266

Ion Ratio Lower Upper

43 100

58 36.4 27.8 41.8

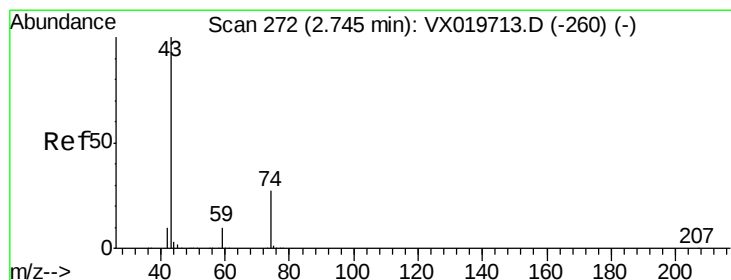
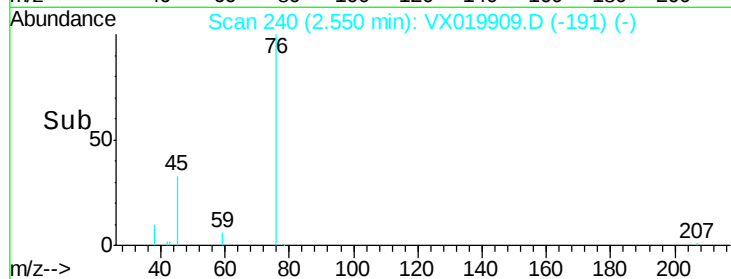
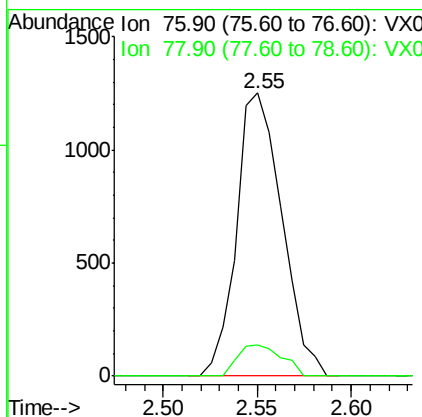
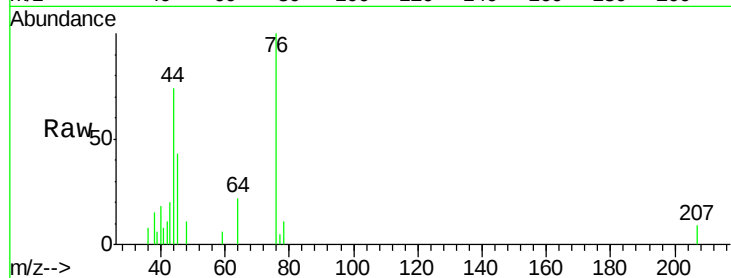




#17
Carbon Disulfide
Concen: 0.249 ug/l
RT: 2.55 min Scan# 240
Delta R.T. -0.00 min
Lab File: VX019909.D
Acq: 12 Dec 2020 05:47

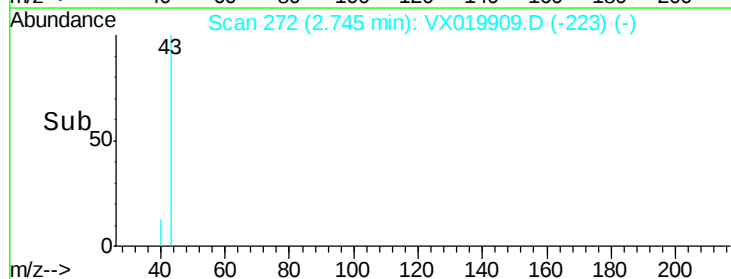
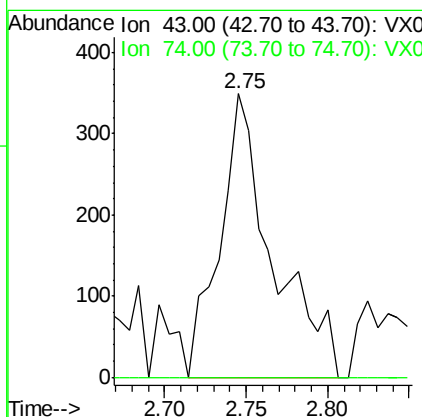
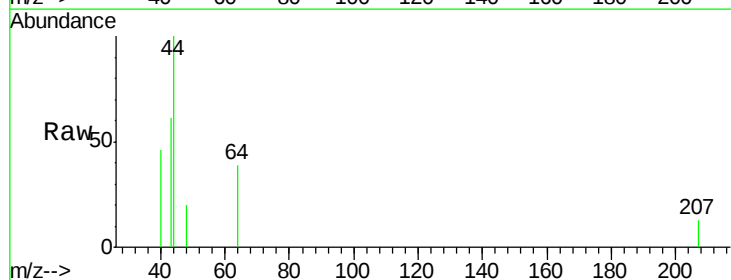
Instrument :
MSVOA_X
ClientSampleId :
TU032-32-EB-120920

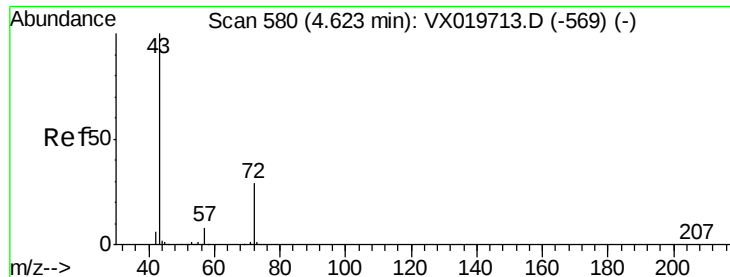
Tgt Ion: 76 Resp: 2088
Ion Ratio Lower Upper
76 100
78 10.9 7.2 10.8#



#18
Methyl Acetate
Concen: 0.203 ug/l
RT: 2.75 min Scan# 272
Delta R.T. -0.00 min
Lab File: VX019909.D
Acq: 12 Dec 2020 05:47

Tgt Ion: 43 Resp: 783
Ion Ratio Lower Upper
43 100
74 0.0 21.9 32.9#





#25

2-Butanone

Concen: 0.486 ug/l

RT: 4.64 min Scan# 582

Delta R.T. 0.01 min

Lab File: VX019909.D

Acq: 12 Dec 2020 05:47

Instrument :

MSVOA_X

ClientSampleId :

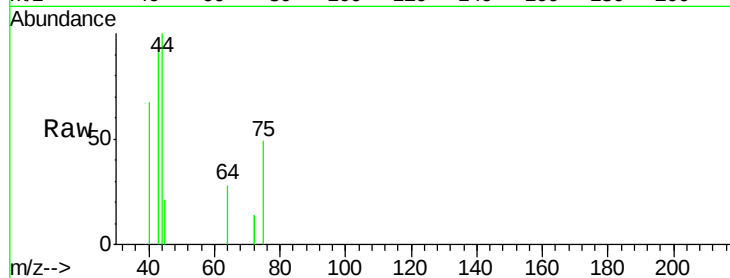
TU032-32-EB-120920

Tgt Ion: 43 Resp: 1177

Ion Ratio Lower Upper

43 100

72 30.0 23.7 35.5



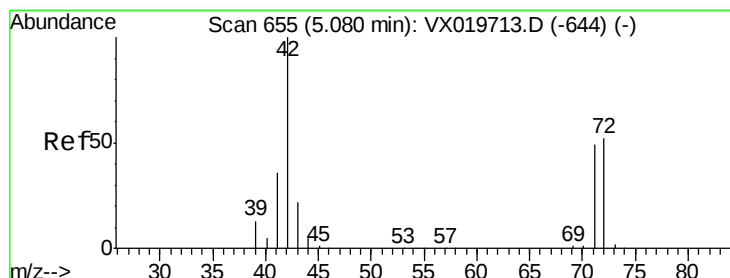
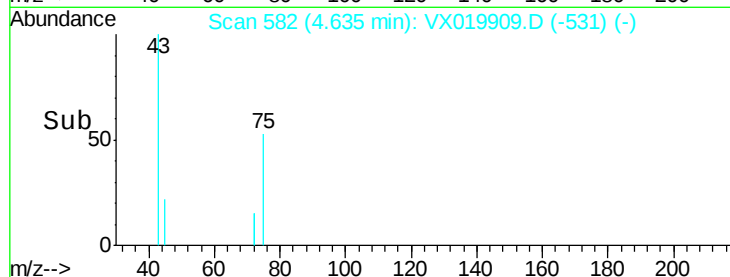
Abundance Ion 43.00 (42.70 to 43.70): VX0

Ion 72.00 (71.70 to 72.70): VX0

4.64

4.60 4.65 4.70

Time-->



#29

Tetrahydrofuran

Concen: 18.183 ug/l

RT: 5.09 min Scan# 656

Delta R.T. 0.01 min

Lab File: VX019909.D

Acq: 12 Dec 2020 05:47

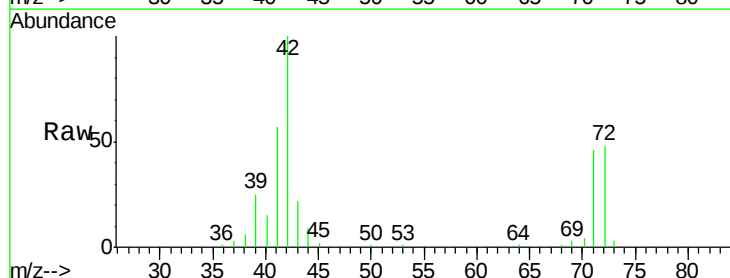
Tgt Ion: 42 Resp: 28384

Ion Ratio Lower Upper

42 100

72 49.6 41.7 62.5

71 46.4 38.4 57.6



Abundance Ion 42.00 (41.70 to 42.70): VX0

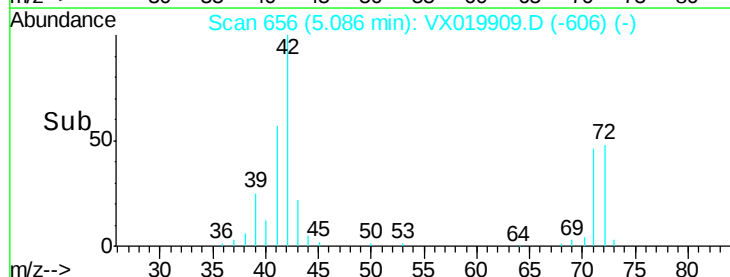
Ion 72.00 (71.70 to 72.70): VX0

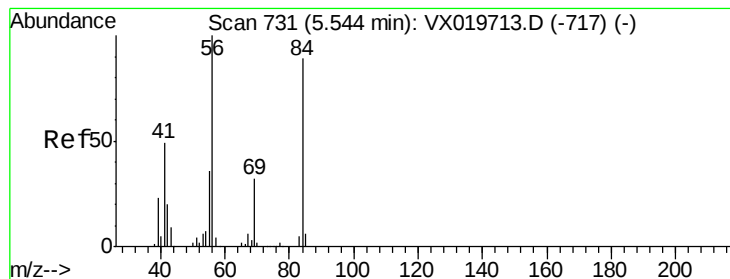
Ion 71.00 (70.70 to 71.70): VX0

5.09

5.00 5.10 5.20

Time-->





#31

Cyclohexane

Concen: 1.183 ug/l

RT: 5.62 min Scan# 744

Delta R.T. 0.08 min

Lab File: VX019909.D

Acq: 12 Dec 2020 05:47

Instrument :

MSVOA_X

ClientSampleId :

TU032-32-EB-120920

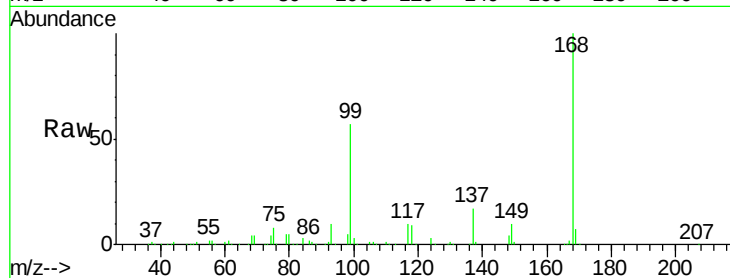
Tgt Ion: 56 Resp: 6171

Ion Ratio Lower Upper

56 100

69 188.1 25.3 37.9#

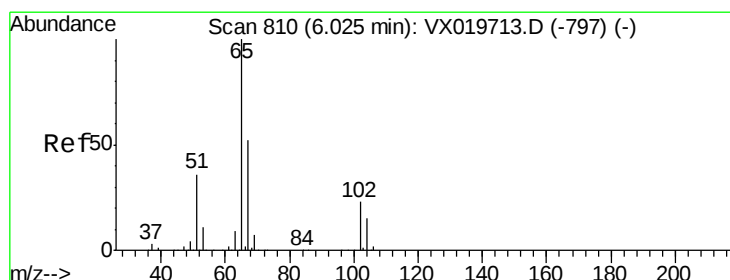
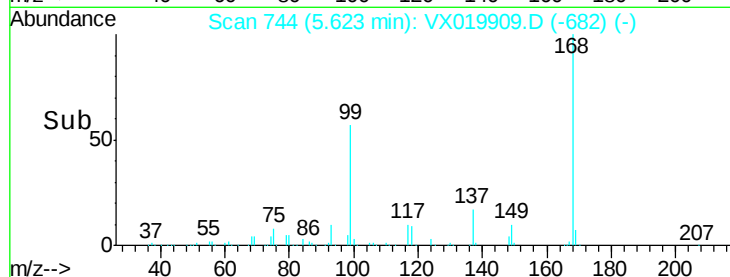
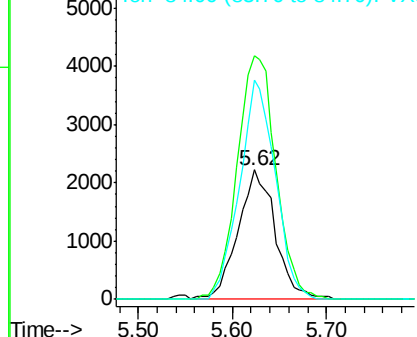
84 169.8 71.4 107.0#



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: 48.771 ug/l

RT: 6.03 min Scan# 810

Delta R.T. -0.00 min

Lab File: VX019909.D

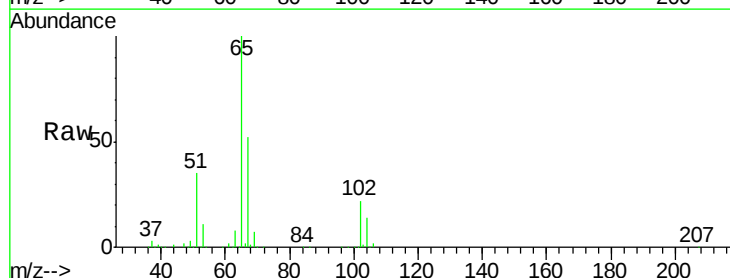
Acq: 12 Dec 2020 05:47

Tgt Ion: 65 Resp: 204591

Ion Ratio Lower Upper

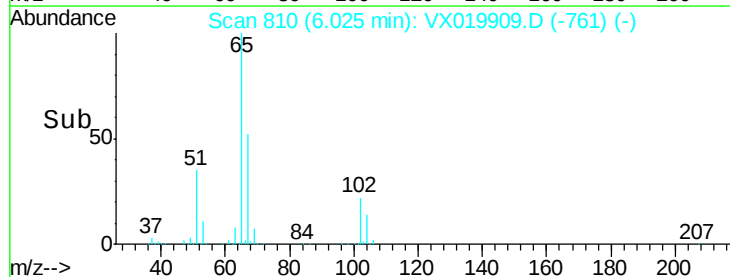
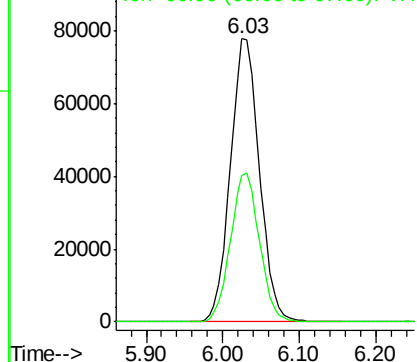
65 100

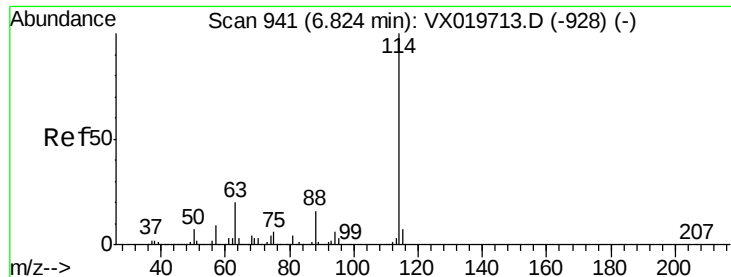
67 52.6 0.0 105.4



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: VX019909.D

Acq: 12 Dec 2020 05:47

Instrument :

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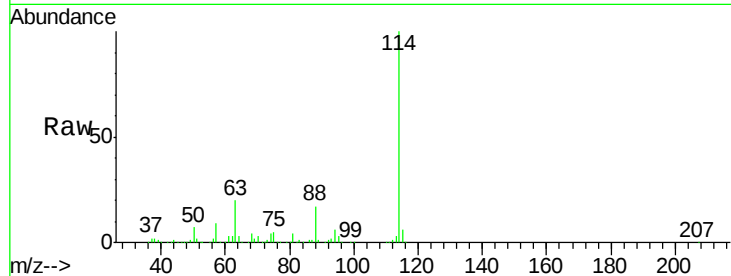
Tgt Ion:114 Resp: 534433

Ion Ratio Lower Upper

114 100

63 20.1 0.0 40.8

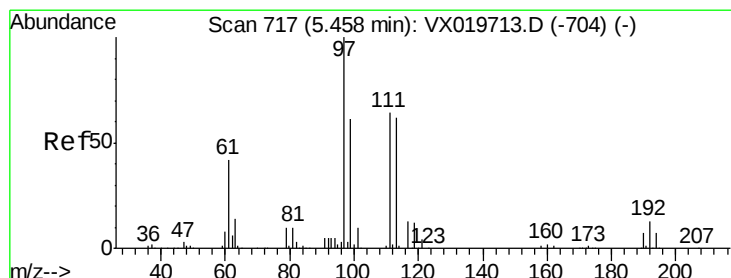
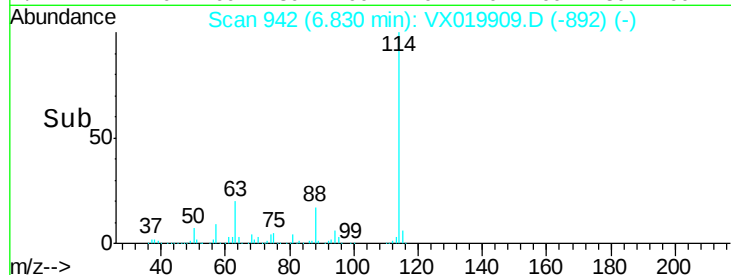
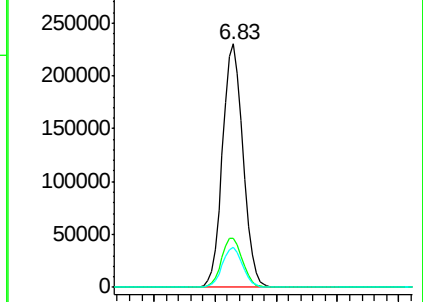
88 16.6 0.0 32.8



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: 47.560 ug/l

RT: 5.46 min Scan# 718

Delta R.T. 0.01 min

Lab File: VX019909.D

Acq: 12 Dec 2020 05:47

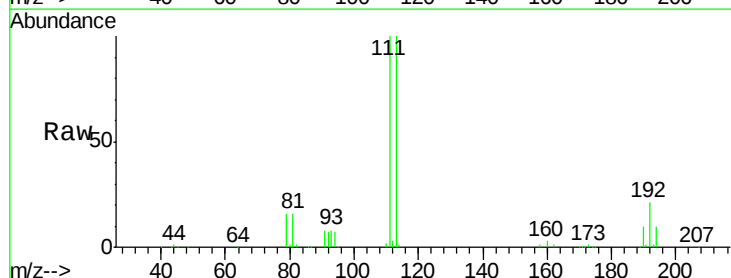
Tgt Ion:113 Resp: 164270

Ion Ratio Lower Upper

113 100

111 102.0 81.9 122.9

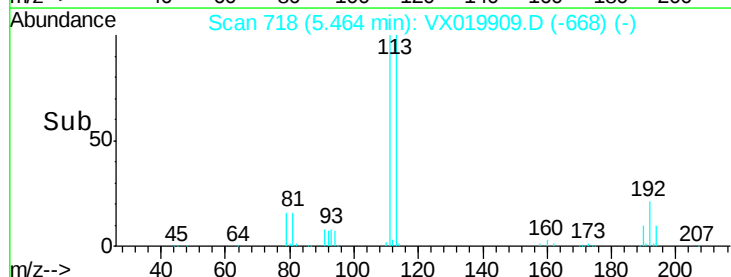
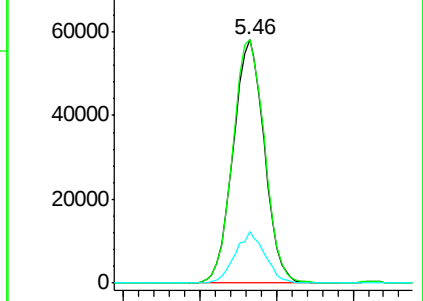
192 20.2 16.7 25.1

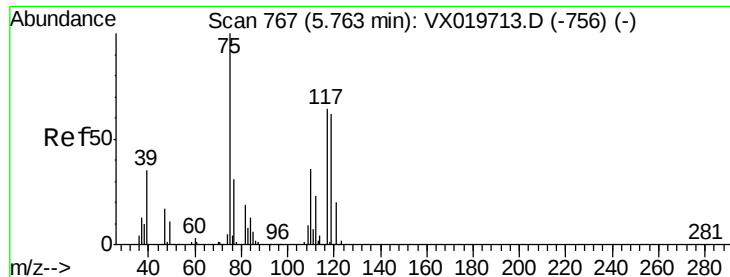


Abundance Ion 112.80 (112.50 to 113.50): V

Ion 110.80 (110.50 to 111.50): V

Ion 191.70 (191.40 to 192.40): V





#36

1,1-Dichloropropene

Concen: 5.109 ug/l

RT: 5.63 min Scan# 745

Delta R.T. -0.13 min

Lab File: VX019909.D

Acq: 12 Dec 2020 05:47

Instrument :

MSVOA_X

ClientSampleId :

TU032-32-EB-120920

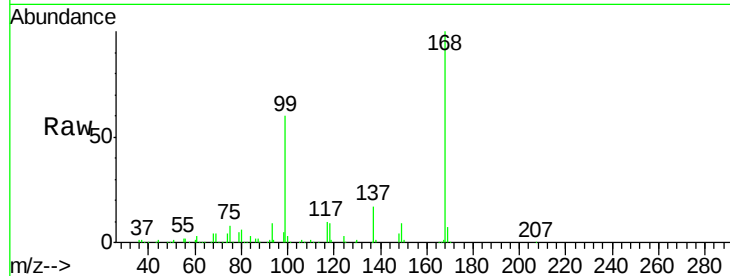
Tgt Ion: 75 Resp: 24675

Ion Ratio Lower Upper

75 100

110 7.9 18.1 54.4#

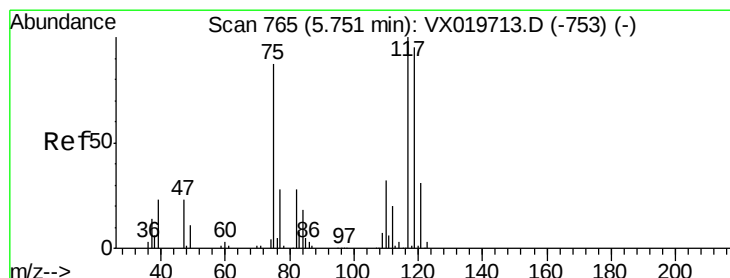
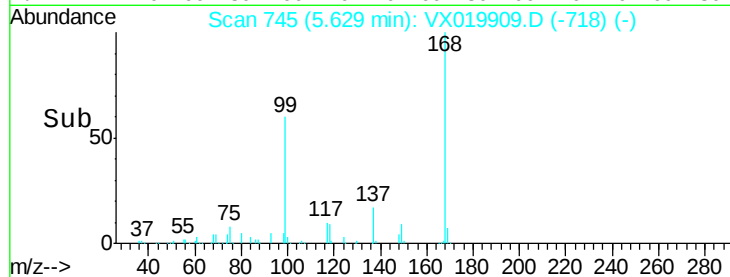
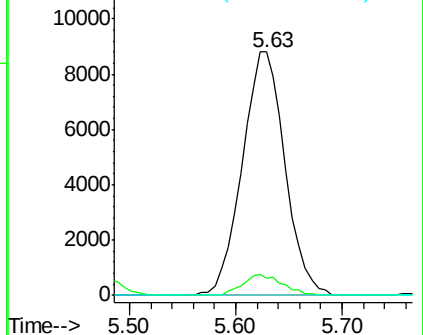
77 0.0 25.3 37.9#



Abundance Ion 74.90 (74.60 to 75.60): VX0

Ion 109.90 (109.60 to 110.60): V

Ion 76.90 (76.60 to 77.60): VX0



#38

Carbon Tetrachloride

Concen: 6.631 ug/l

RT: 5.62 min Scan# 744

Delta R.T. -0.13 min

Lab File: VX019909.D

Acq: 12 Dec 2020 05:47

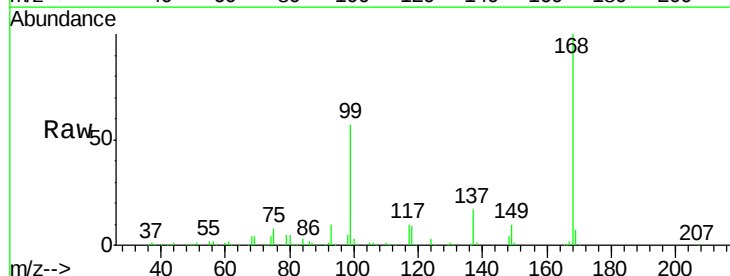
Tgt Ion: 117 Resp: 31358

Ion Ratio Lower Upper

117 100

119 4.7 76.2 114.2#

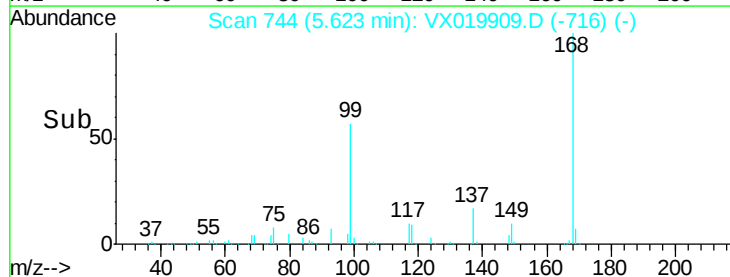
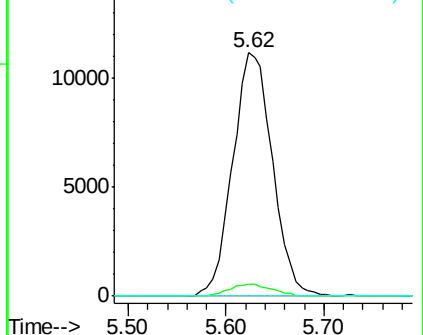
121 0.0 24.8 37.2#

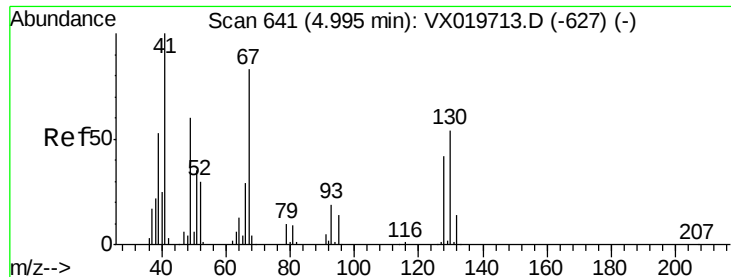


Abundance Ion 116.80 (116.50 to 117.50): V

Ion 118.80 (118.50 to 119.50): V

Ion 120.80 (120.50 to 121.50): V





#41

Methacrylonitrile

Concen: 6.372 ug/l

RT: 5.09 min Scan# 657

Delta R.T. 0.10 min

Lab File: VX019909.D

Acq: 12 Dec 2020 05:47

Instrument :

MSVOA_X

ClientSampleId :

TU032-32-EB-120920

Tgt Ion: 41 Resp: 17060

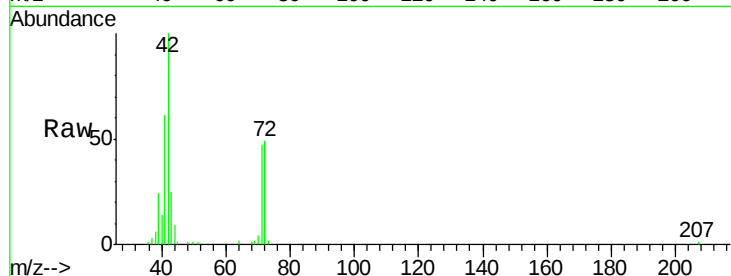
Ion Ratio Lower Upper

41 100

39 44.9 42.5 63.7

67 0.0 65.0 97.6#

52 0.0 25.3 37.9#

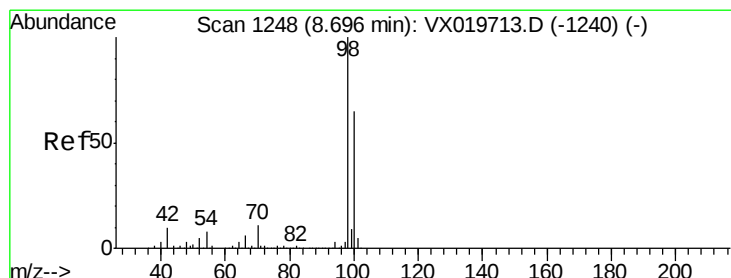
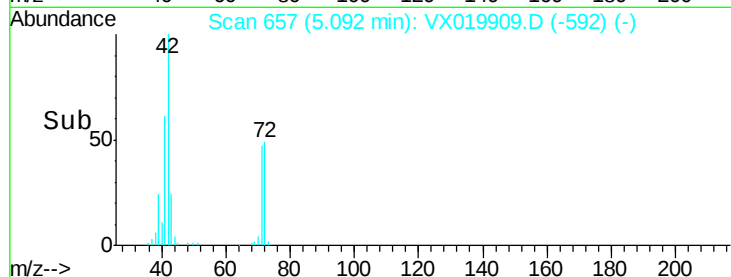
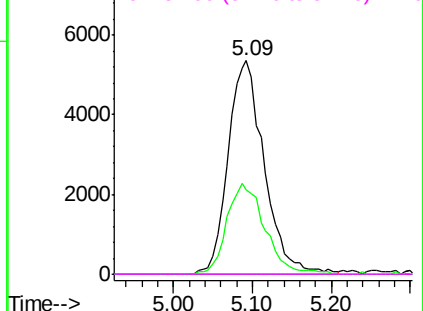


Abundance Ion 41.00 (40.70 to 41.70): VX0

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



#50

Toluene-d8

Concen: 48.906 ug/l

RT: 8.70 min Scan# 1248

Delta R.T. -0.00 min

Lab File: VX019909.D

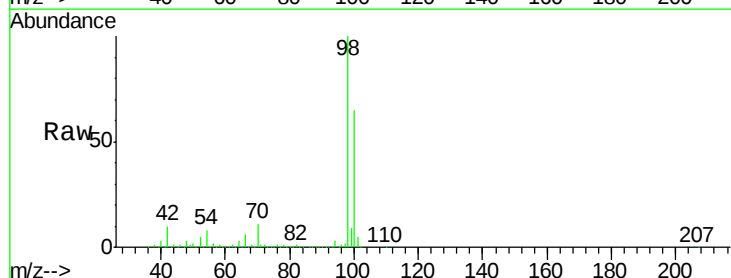
Acq: 12 Dec 2020 05:47

Tgt Ion: 98 Resp: 644886

Ion Ratio Lower Upper

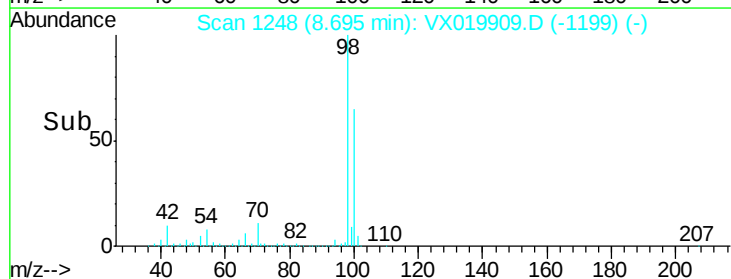
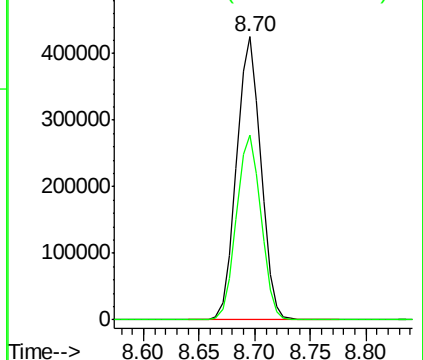
98 100

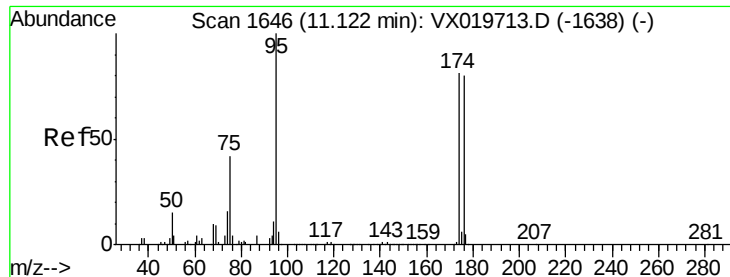
100 65.9 51.9 77.9



Abundance Ion 98.00 (97.70 to 98.70): VX0

Ion 100.00 (99.70 to 100.70): VX0





#62

4-Bromofluorobenzene

Concen: 45.420 ug/l

RT: 11.12 min Scan# 1646

Delta R.T. -0.00 min

Lab File: VX019909.D

Acq: 12 Dec 2020 05:47

Instrument :

MSVOA_X

ClientSampleId :

TU032-32-EB-120920

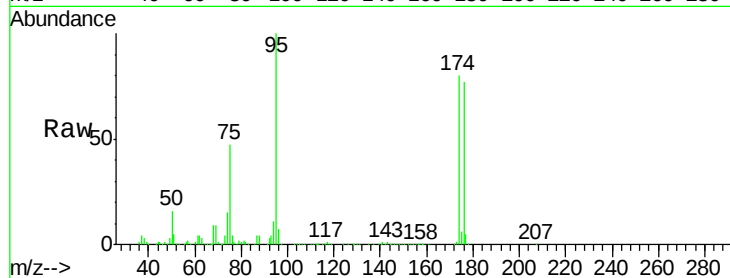
Tgt Ion: 95 Resp: 227957

Ion Ratio Lower Upper

95 100

174 77.1 0.0 154.6

176 75.1 0.0 155.8

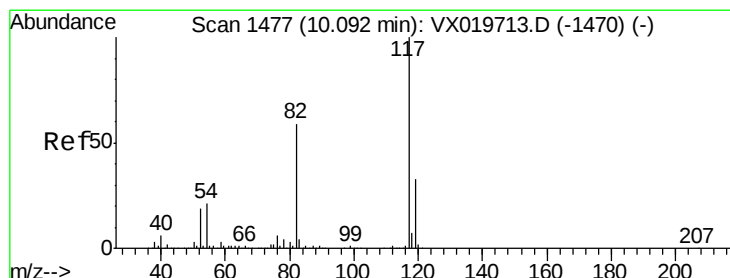
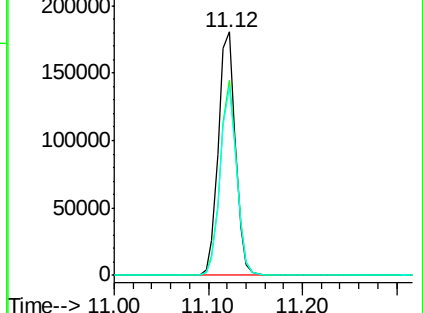
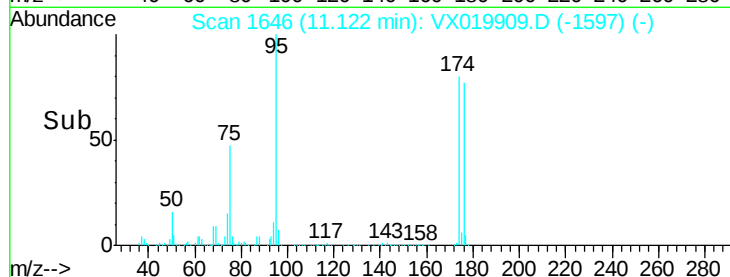


Abundance Ion 94.90 (94.60 to 95.60): VX019909.D (-1597) (-)

Ion 173.80 (173.50 to 174.50): VX019909.D (-1597) (-)

Ion 175.80 (175.50 to 176.50): VX019909.D (-1597) (-)

Time--> 11.00 11.10 11.20



#63

Chlorobenzene-d5

Concen: 50.000 ug/l

RT: 10.10 min Scan# 1478

Delta R.T. 0.01 min

Lab File: VX019909.D

Acq: 12 Dec 2020 05:47

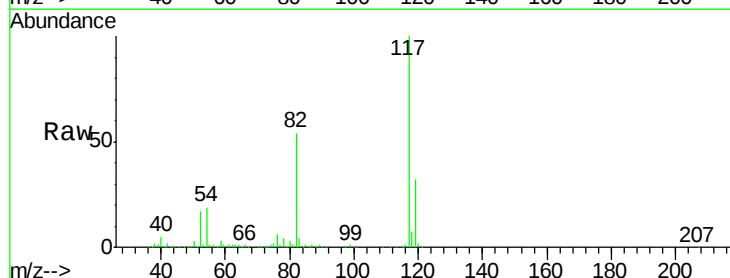
Tgt Ion: 117 Resp: 494749

Ion Ratio Lower Upper

117 100

82 54.5 47.4 71.2

119 31.9 26.6 39.8

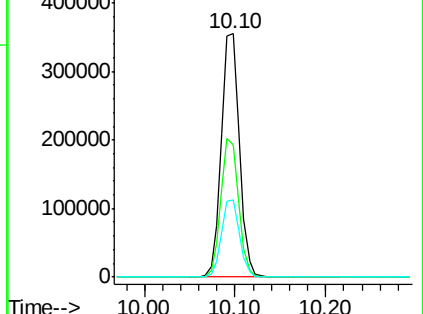
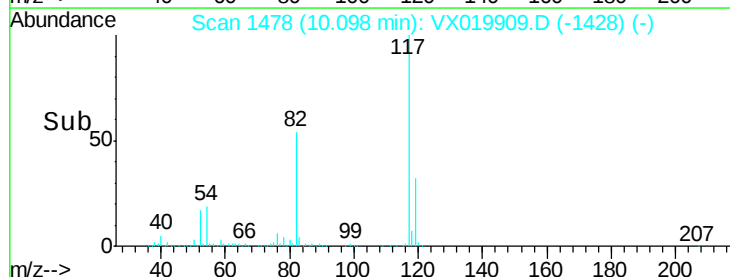


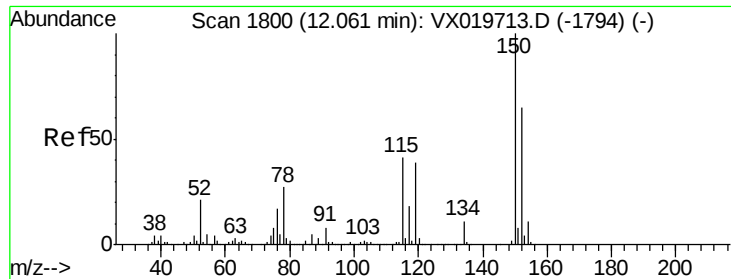
Abundance Ion 116.90 (116.60 to 117.60): VX019909.D (-1428) (-)

Ion 82.00 (81.70 to 82.70): VX019909.D (-1428) (-)

Ion 118.90 (118.60 to 119.60): VX019909.D (-1428) (-)

Time--> 10.00 10.10 10.20





#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

RT: 12.06 min Scan# 1800

Delta R.T. -0.00 min

Lab File: VX019909.D

Acq: 12 Dec 2020 05:47

Instrument :

MSVOA_X

ClientSampleId :

TU032-32-EB-120920

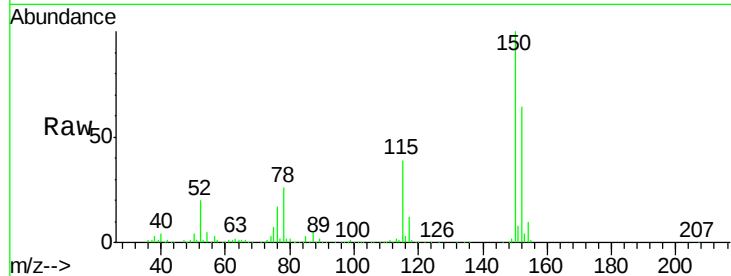
Tgt Ion:152 Resp: 216099

Ion Ratio Lower Upper

152 100

115 59.3 41.1 123.3

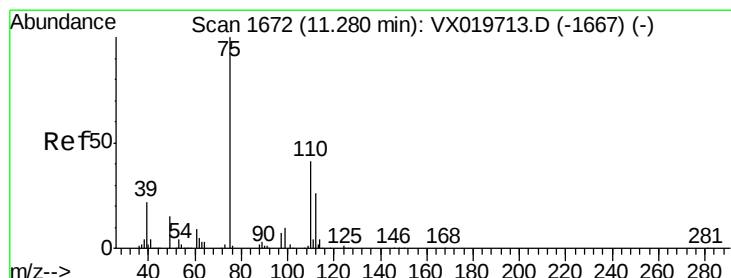
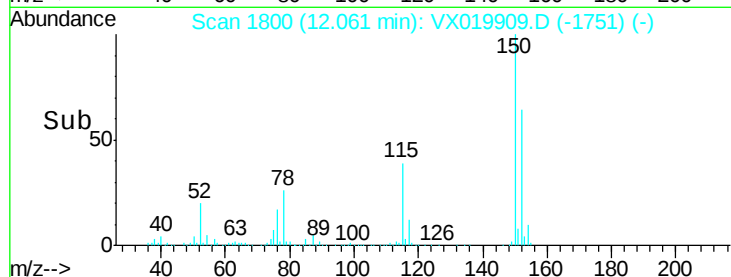
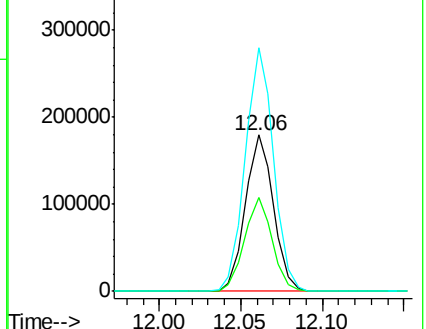
150 156.9 0.0 349.0



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: 22.708 ug/l

RT: 11.12 min Scan# 1646

Delta R.T. -0.16 min

Lab File: VX019909.D

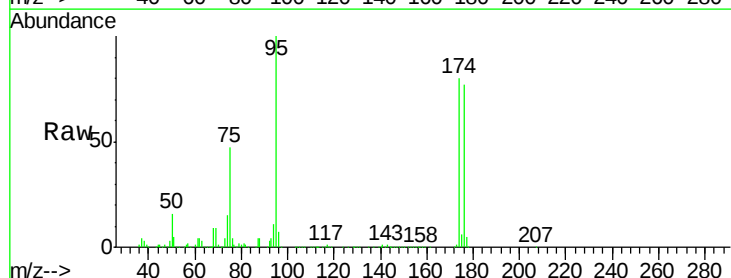
Acq: 12 Dec 2020 05:47

Tgt Ion: 75 Resp: 110060

Ion Ratio Lower Upper

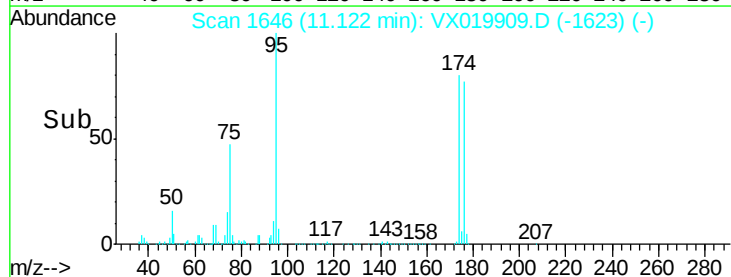
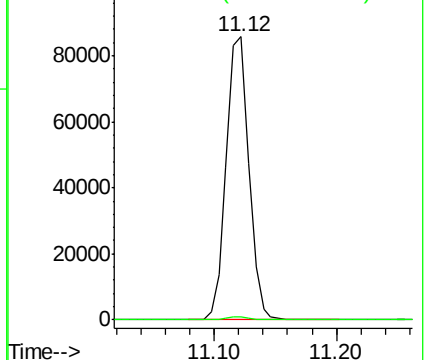
75 100

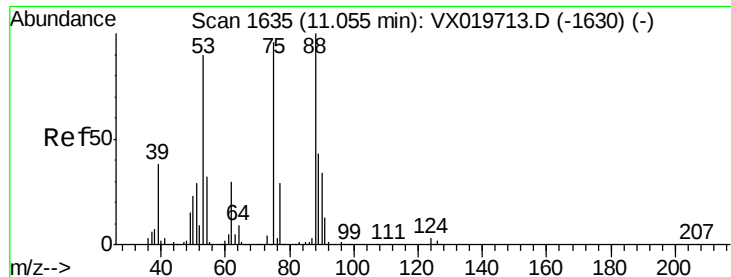
77 1.2 19.1 57.5#



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: 65.645 ug/l

RT: 11.12 min Scan# 1646

Delta R.T. 0.07 min

Lab File: VX019909.D

Acq: 12 Dec 2020 05:47

Instrument :

MSVOA_X

ClientSampleId :

TU032-32-EB-120920

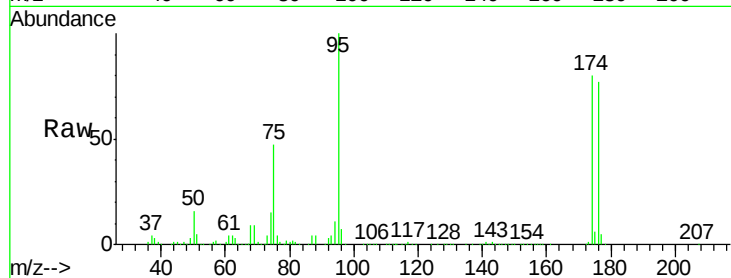
Tgt Ion: 75 Resp: 110060

Ion Ratio Lower Upper

75 100

53 0.0 74.5 111.7#

89 0.0 37.9 56.9#



Abundance Ion 74.90 (74.60 to 75.60): VX0

Ion 53.00 (52.70 to 53.70): VX0

Ion 88.90 (88.60 to 89.60): VX0

