

Data Path : Z:\VOASRV\HPCHEM1\MSVOA_X\DATA\VX121120\
 Data File : VX019914.D
 Acq On : 12 Dec 2020 07:43
 Operator : JC/MD
 Sample : L5025-05
 Misc : 5.0mL/MSVOA_X/WATER
 ALS Vial : 54 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :
 TU032-32-6031-120920

Quant Time: Dec 14 02:48:54 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	318558	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	6.83	114	526073	50.00	ug/l	0.00
63) Chlorobenzene-d5	10.09	117	485386	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.06	152	214236	50.00	ug/l	0.00

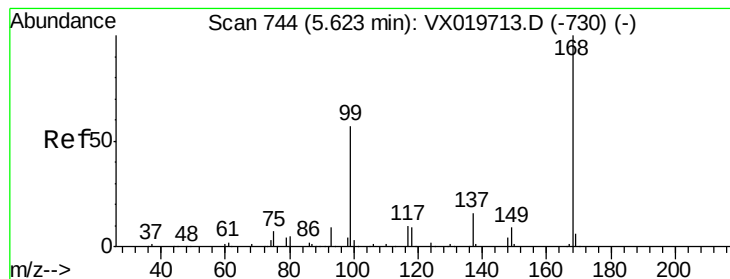
System Monitoring Compounds

33) 1,2-Dichloroethane-d4	6.03	65	203433	48.59	ug/l	0.00
Spiked Amount 50.000	Range 61 - 141		Recovery =	97.18%		
35) Dibromofluoromethane	5.46	113	162991	47.94	ug/l	0.00
Spiked Amount 50.000	Range 69 - 133		Recovery =	95.88%		
50) Toluene-d8	8.70	98	636444	49.03	ug/l	0.00
Spiked Amount 50.000	Range 65 - 126		Recovery =	98.06%		
62) 4-Bromofluorobenzene	11.12	95	223201	45.18	ug/l	0.00
Spiked Amount 50.000	Range 58 - 135		Recovery =	90.36%		

Target Compounds

					Qvalue	
5) Bromomethane	1.63	94	540	0.450 ug/l	#	71
6) Chloroethane	1.70	64	547	0.252 ug/l	#	54
11) Tert butyl alcohol	3.00	59	579	Below Cal	#	73
16) Acetone	2.42	43	2675	1.700 ug/l		93
20) Methylene Chloride	2.84	84	349	Below Cal	#	91
27) cis-1,2-Dichloroethene	4.56	96	182155	45.743 ug/l		89
31) Cyclohexane	5.62	56	5953	1.143 ug/l	#	1
36) 1,1-Dichloropropene	5.63	75	24522	5.158 ug/l	#	49
38) Carbon Tetrachloride	5.62	117	30941	6.647 ug/l	#	16
76) 1,2,3-Trichloropropane	11.12	75	109144	22.715 ug/l	#	39
81) trans-1,4-Dichloro-2-buten	11.12	75	109144	65.665 ug/l	#	12

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



#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 5.63 min Scan# 745

Delta R.T. 0.01 min

Lab File: VX019914.D

Acq: 12 Dec 2020 07:43

Instrument :

MSVOA_X

ClientSampleId :

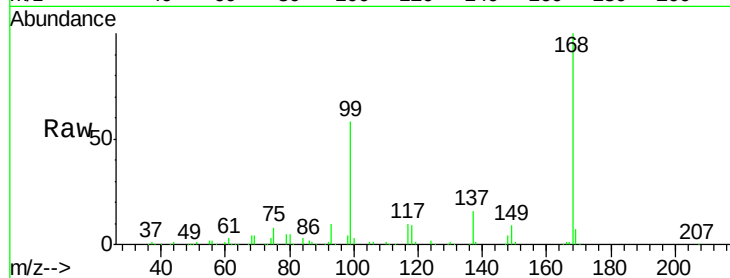
TU032-32-6031-120920

Tgt Ion:168 Resp: 318558

Ion Ratio Lower Upper

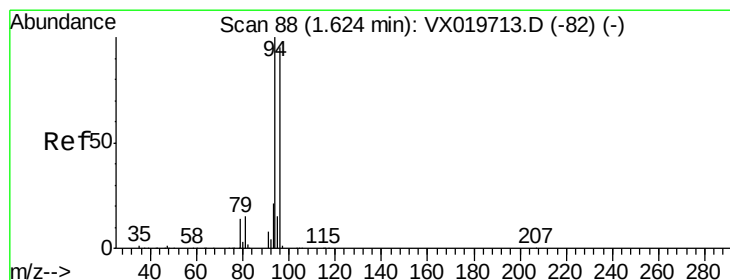
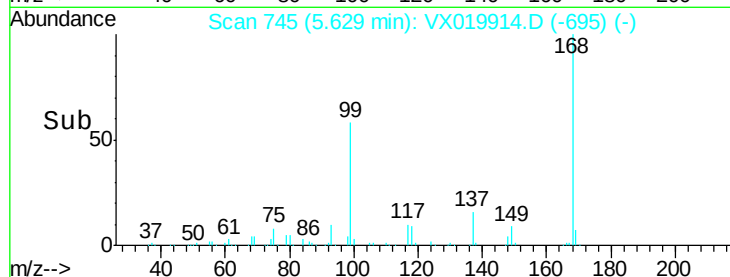
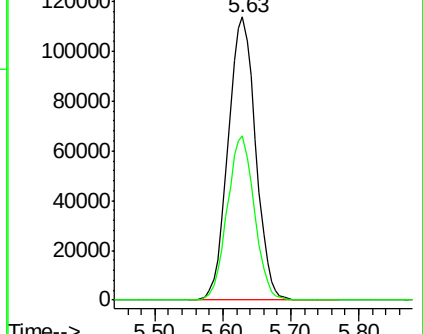
168 100

99 58.0 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: 0.450 ug/l

RT: 1.63 min Scan# 89

Delta R.T. 0.01 min

Lab File: VX019914.D

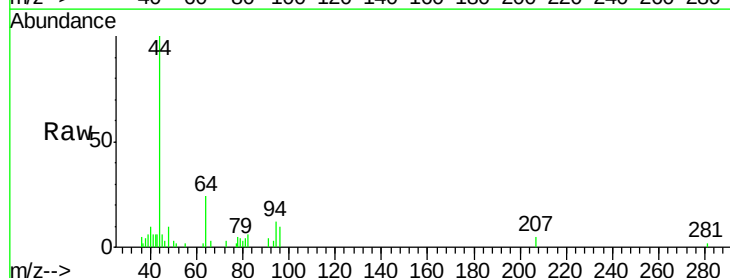
Acq: 12 Dec 2020 07:43

Tgt Ion: 94 Resp: 540

Ion Ratio Lower Upper

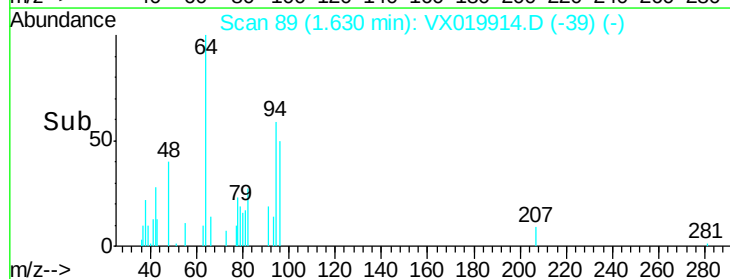
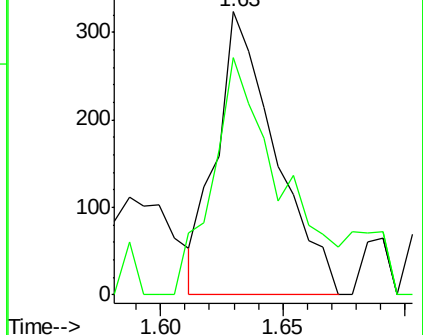
94 100

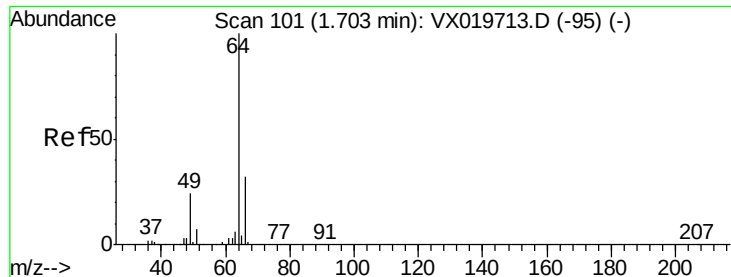
96 67.2 76.4 114.6#



Abundance Ion 93.90 (93.60 to 94.60): VX0

Ion 95.90 (95.60 to 96.60): VX0





#6

Chloroethane

Concen: 0.252 ug/l

RT: 1.70 min Scan# 101

Delta R.T. 0.00 min

Lab File: VX019914.D

Acq: 12 Dec 2020 07:43

Instrument :

MSVOA_X

ClientSampleId :

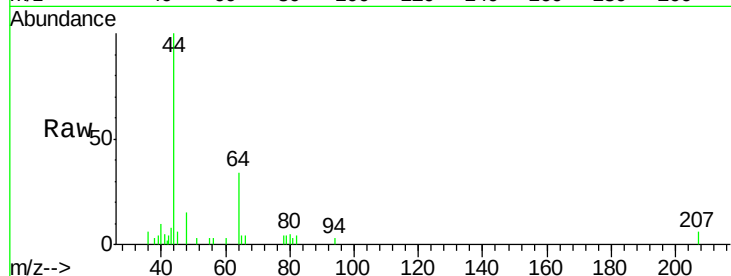
TU032-32-6031-120920

Tgt Ion: 64 Resp: 547

Ion Ratio Lower Upper

64 100

66 6.1 25.4 38.0#



Abundance Ion 63.90 (63.60 to 64.60): VX0

Ion 65.90 (65.60 to 66.60): VX0

1.70

800

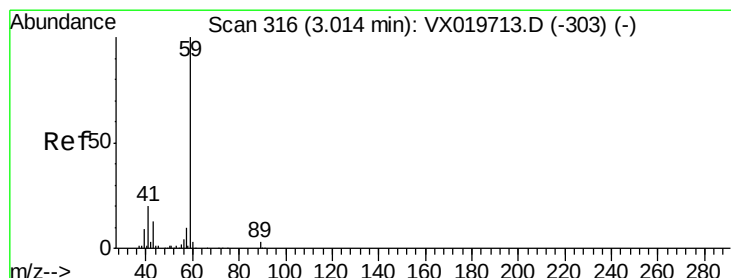
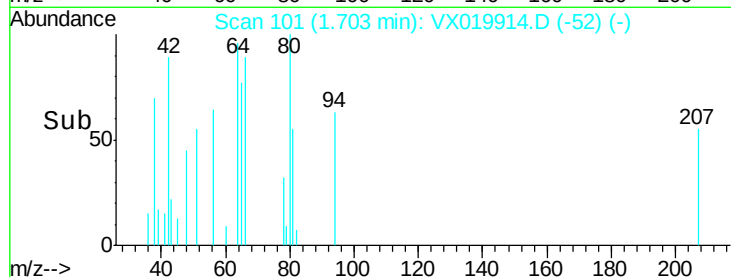
600

400

200

0

Time-->



#11

Tert butyl alcohol

Concen: Below Cal

RT: 3.00 min Scan# 313

Delta R.T. -0.02 min

Lab File: VX019914.D

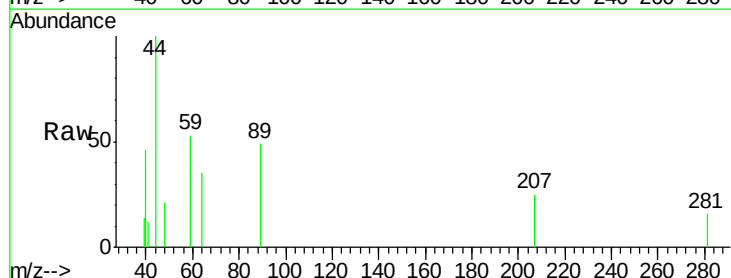
Acq: 12 Dec 2020 07:43

Tgt Ion: 59 Resp: 579

Ion Ratio Lower Upper

59 100

57 0.0 7.8 11.8#



Abundance Ion 59.00 (58.70 to 59.70): VX0

Ion 57.00 (56.70 to 57.70): VX0

3.00

300

250

200

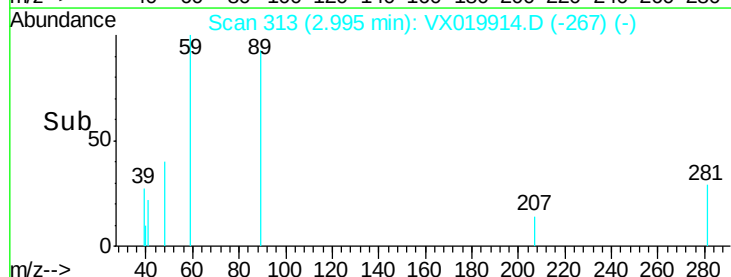
150

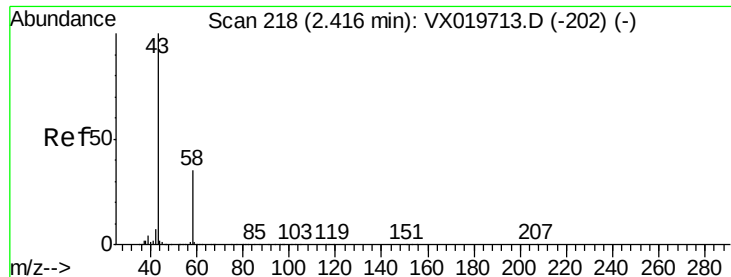
100

50

0

Time-->





#16

Acetone

Concen: 1.700 ug/l

RT: 2.42 min Scan# 218

Delta R.T. 0.00 min

Lab File: VX019914.D

Acq: 12 Dec 2020 07:43

Instrument :

MSVOA_X

ClientSampleId :

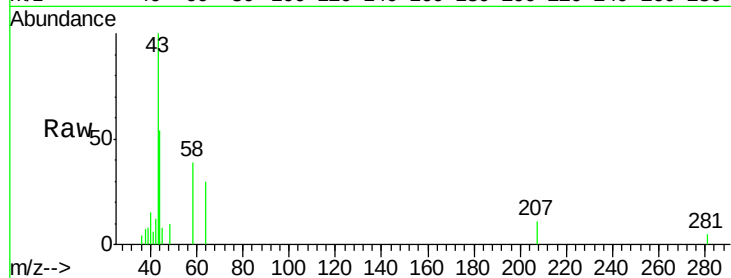
TU032-32-6031-120920

Tgt Ion: 43 Resp: 2675

Ion Ratio Lower Upper

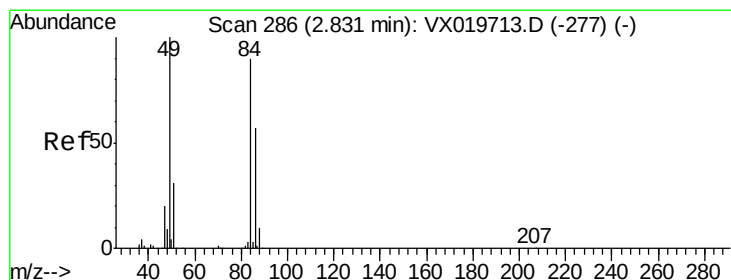
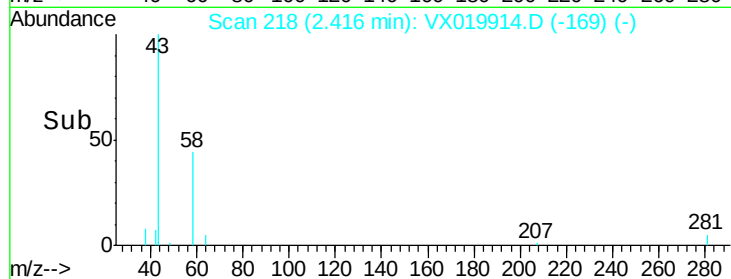
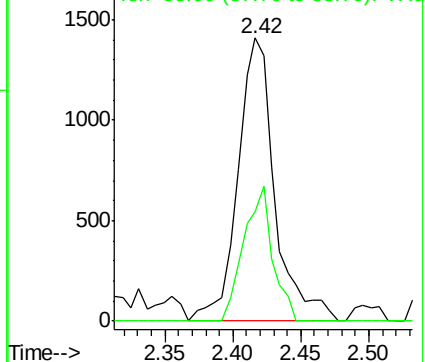
43 100

58 38.8 27.8 41.8



Abundance Ion 43.00 (42.70 to 43.70): VX0

Ion 58.00 (57.70 to 58.70): VX0



#20

Methylene Chloride

Concen: Below Cal

RT: 2.84 min Scan# 287

Delta R.T. 0.01 min

Lab File: VX019914.D

Acq: 12 Dec 2020 07:43

Tgt Ion: 84 Resp: 349

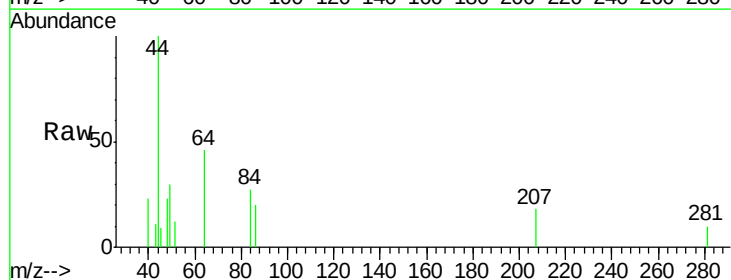
Ion Ratio Lower Upper

84 100

49 112.3 88.6 132.8

51 45.3 27.0 40.6#

86 75.4 50.3 75.5

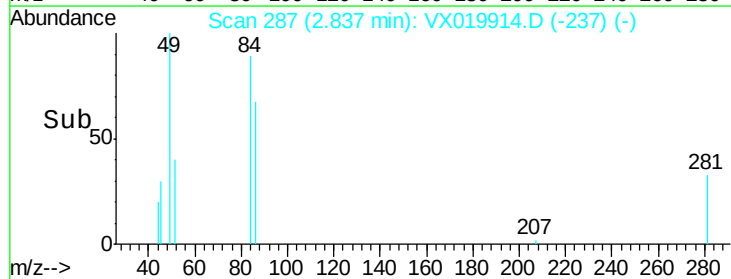
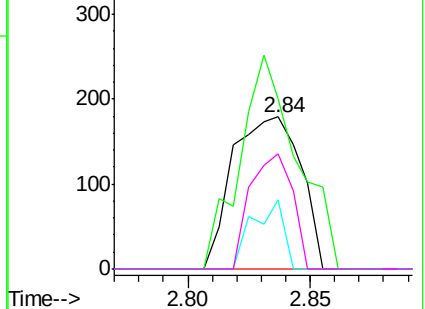


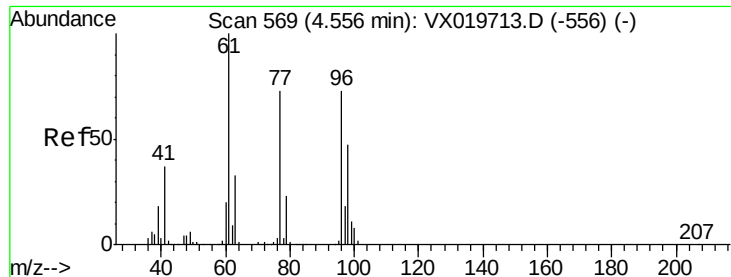
Abundance Ion 83.90 (83.60 to 84.60): VX0

Ion 48.90 (48.60 to 49.60): VX0

Ion 50.90 (50.60 to 51.60): VX0

Ion 85.90 (85.60 to 86.60): VX0



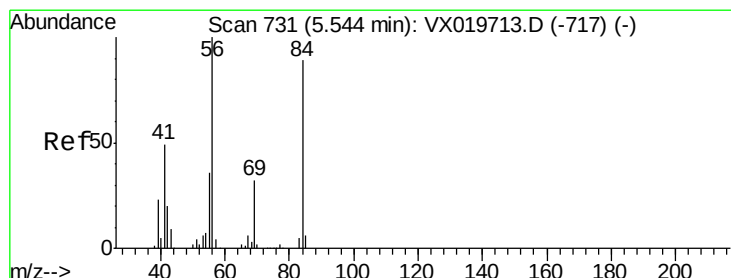
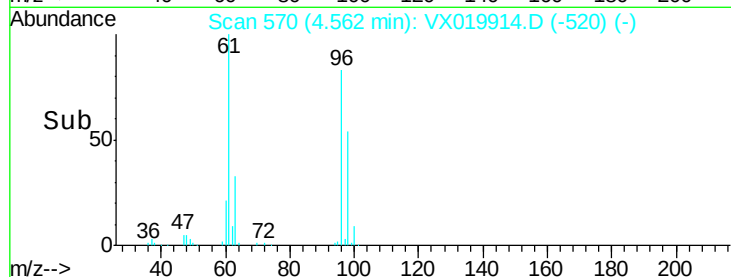
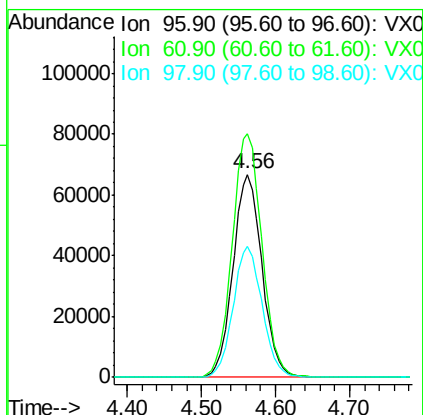
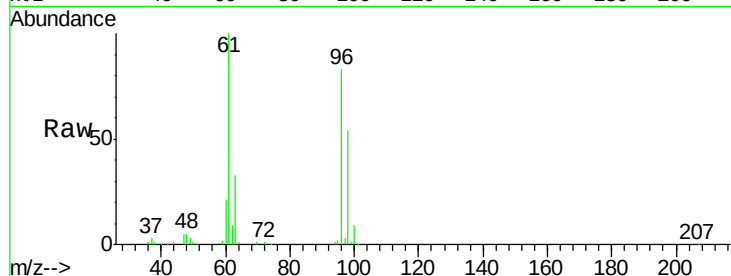


#27

cis-1,2-Dichloroethene
Concen: 45.743 ug/l
RT: 4.56 min Scan# 570
Delta R.T. 0.01 min
Lab File: VX019914.D
Acq: 12 Dec 2020 07:43

Instrument :
MSVOA_X
ClientSampleId :
TU032-32-6031-120920

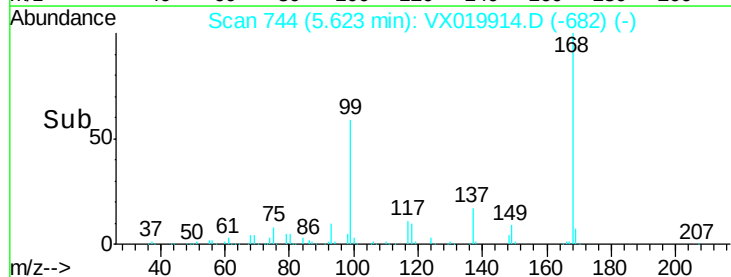
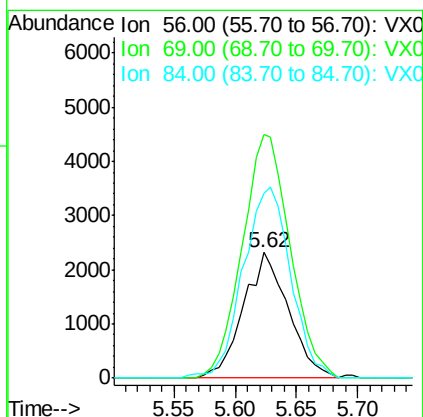
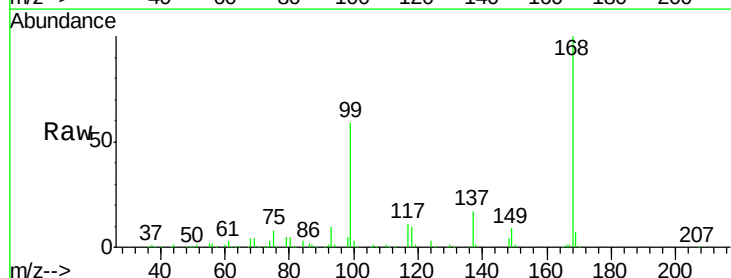
Tgt Ion: 96 Resp: 182155
Ion Ratio Lower Upper
96 100
61 123.5 0.0 285.6
98 64.6 0.0 129.6

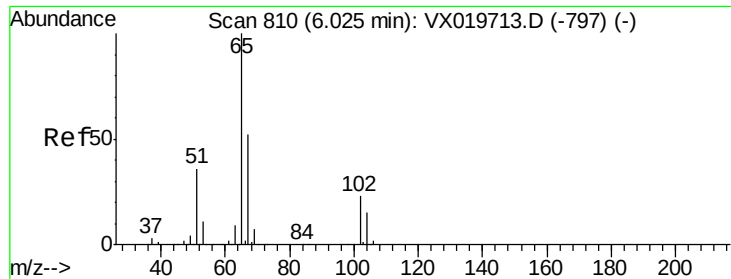


#31

Cyclohexane
Concen: 1.143 ug/l
RT: 5.62 min Scan# 744
Delta R.T. 0.08 min
Lab File: VX019914.D
Acq: 12 Dec 2020 07:43

Tgt Ion: 56 Resp: 5953
Ion Ratio Lower Upper
56 100
69 194.3 25.3 37.9#
84 147.2 71.4 107.0#

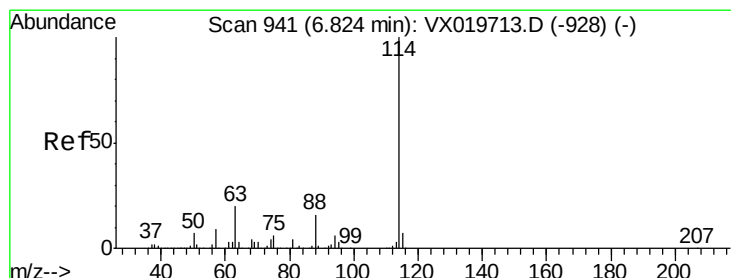
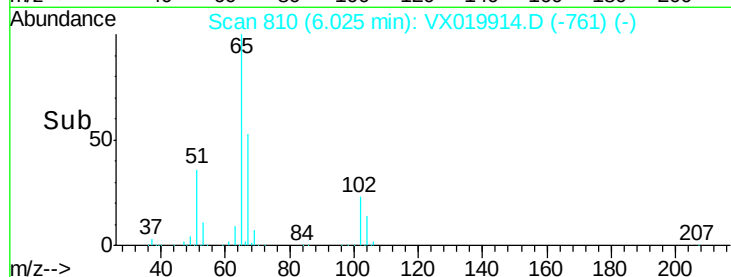
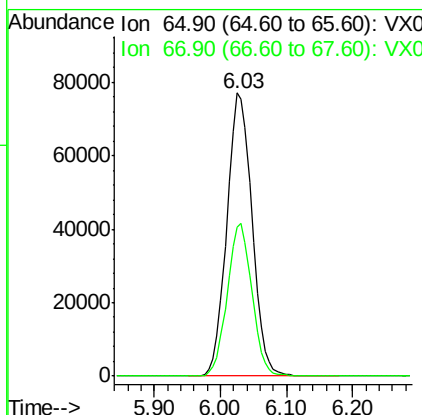
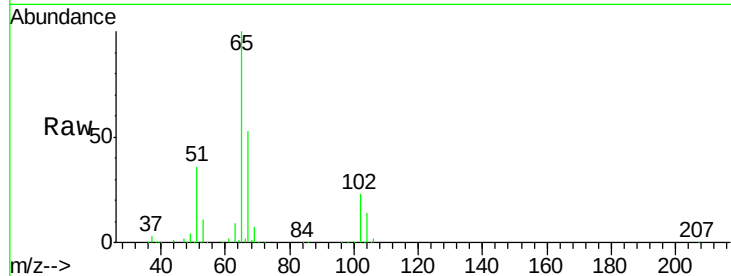




#33
 1,2-Dichloroethane-d4
 Concen: 48.589 ug/l
 RT: 6.03 min Scan# 810
 Delta R.T. 0.00 min
 Lab File: VX019914.D
 Acq: 12 Dec 2020 07:43

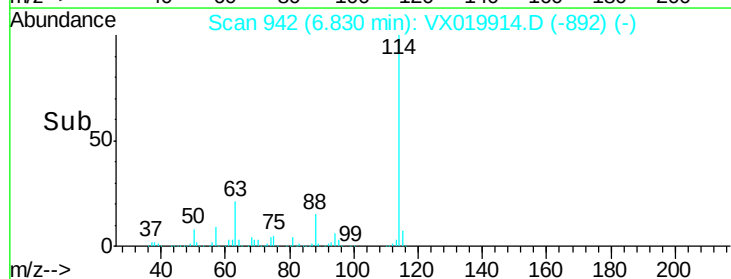
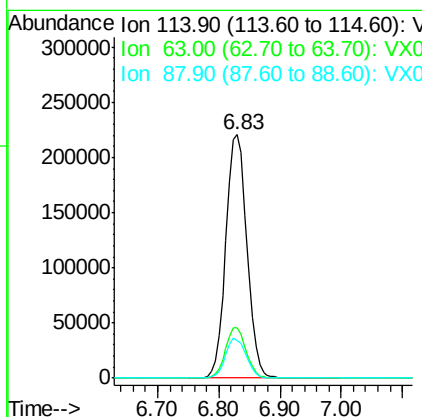
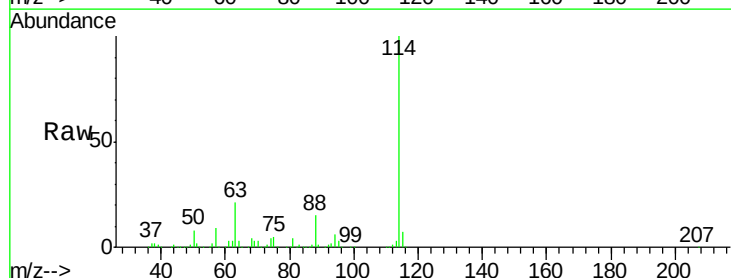
Instrument :
 MSVOA_X
 ClientSampleId :
 TU032-32-6031-120920

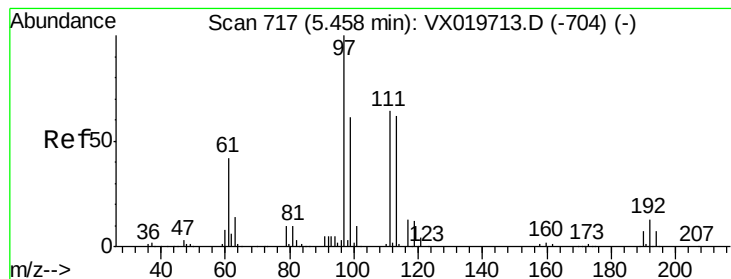
Tgt Ion: 65 Resp: 203433
 Ion Ratio Lower Upper
 65 100
 67 52.7 0.0 105.4



#34
 1,4-Difluorobenzene
 Concen: 50.000 ug/l
 RT: 6.83 min Scan# 942
 Delta R.T. 0.01 min
 Lab File: VX019914.D
 Acq: 12 Dec 2020 07:43

Tgt Ion: 114 Resp: 526073
 Ion Ratio Lower Upper
 114 100
 63 20.8 0.0 40.8
 88 15.3 0.0 32.8





#35

Dibromofluoromethane

Concen: 47.939 ug/l

RT: 5.46 min Scan# 718

Delta R.T. 0.01 min

Lab File: VX019914.D

Acq: 12 Dec 2020 07:43

Instrument :

MSVOA_X

ClientSampleId :

TU032-32-6031-120920

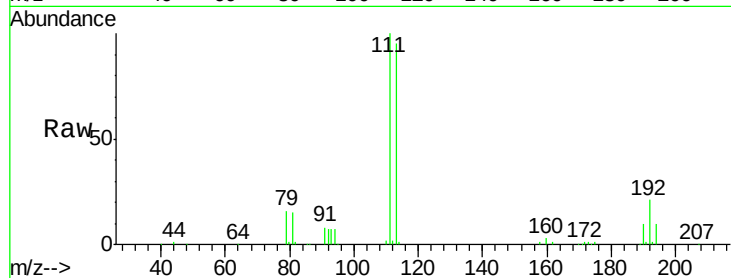
Tgt Ion:113 Resp: 162991

Ion Ratio Lower Upper

113 100

111 102.7 81.9 122.9

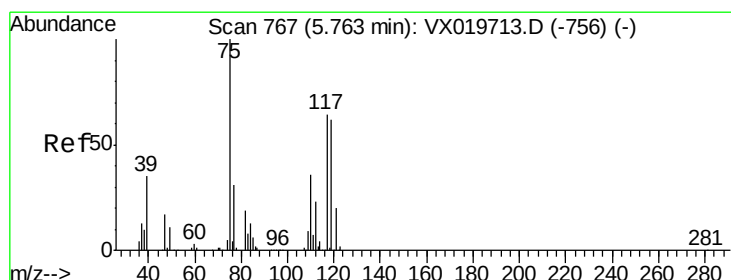
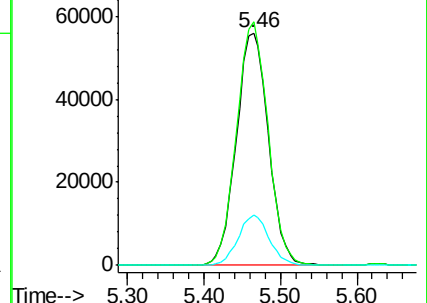
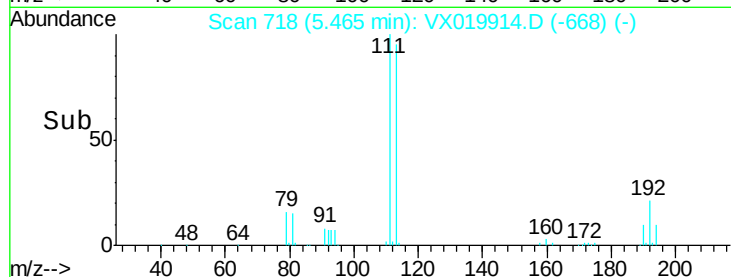
192 20.9 16.7 25.1



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: 5.158 ug/l

RT: 5.63 min Scan# 745

Delta R.T. -0.13 min

Lab File: VX019914.D

Acq: 12 Dec 2020 07:43

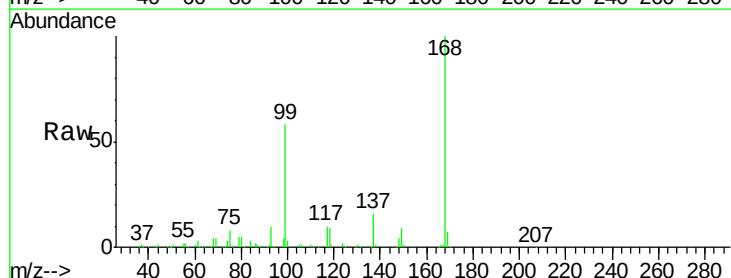
Tgt Ion: 75 Resp: 24522

Ion Ratio Lower Upper

75 100

110 9.2 18.1 54.4#

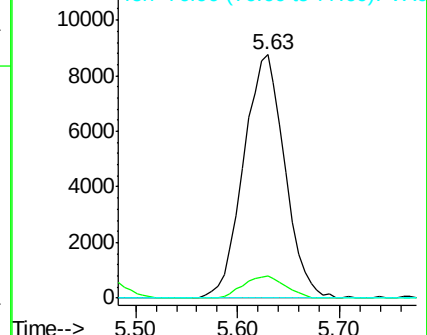
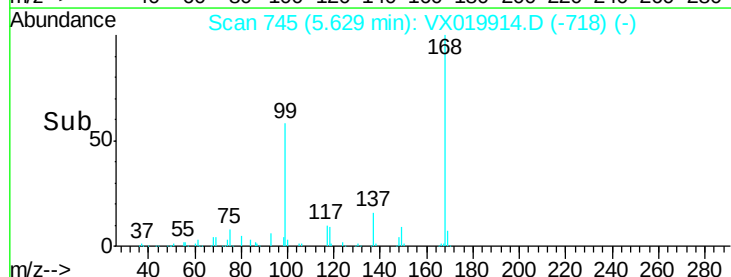
77 0.0 25.3 37.9#

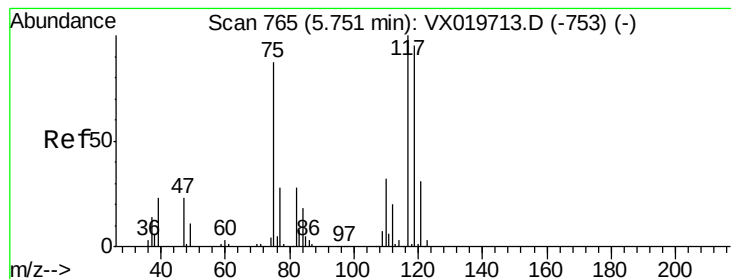


Abundance Ion 74.90 (74.60 to 75.60): VX0

Ion 109.90 (109.60 to 110.60): V

Ion 76.90 (76.60 to 77.60): VX0





#38

Carbon Tetrachloride

Concen: 6.647 ug/l

RT: 5.62 min Scan# 744

Delta R.T. -0.13 min

Lab File: VX019914.D

Acq: 12 Dec 2020 07:43

Instrument :

MSVOA_X

ClientSampleId :

TU032-32-6031-120920

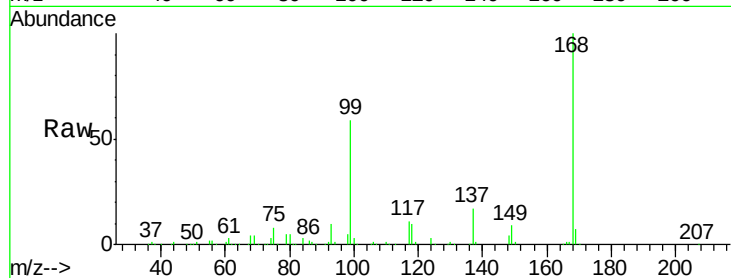
Tgt Ion: 117 Resp: 30941

Ion Ratio Lower Upper

117 100

119 5.3 76.2 114.2#

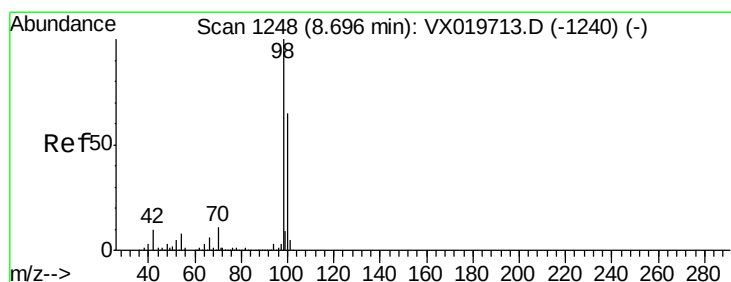
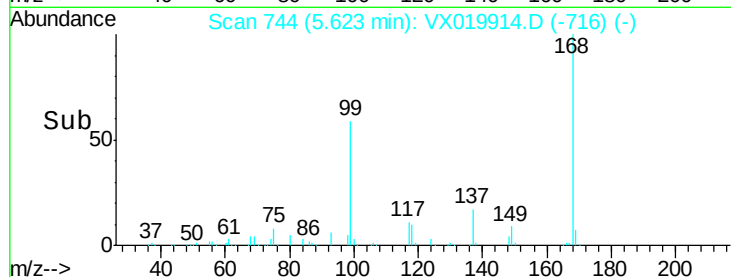
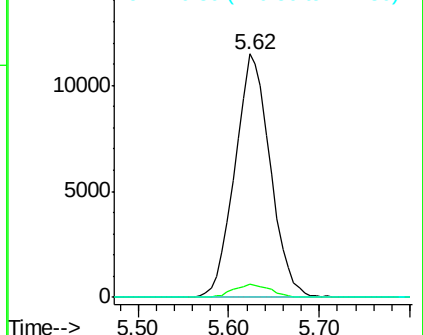
121 0.0 24.8 37.2#



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



#50

Toluene-d8

Concen: 49.032 ug/l

RT: 8.70 min Scan# 1248

Delta R.T. 0.00 min

Lab File: VX019914.D

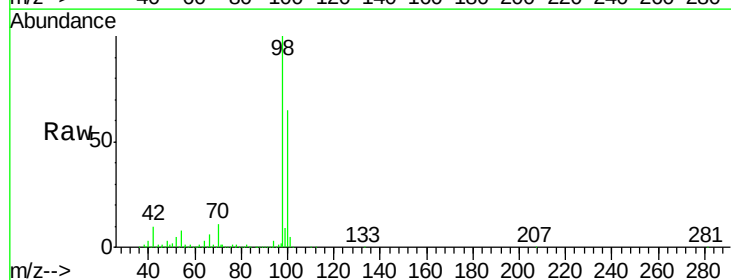
Acq: 12 Dec 2020 07:43

Tgt Ion: 98 Resp: 636444

Ion Ratio Lower Upper

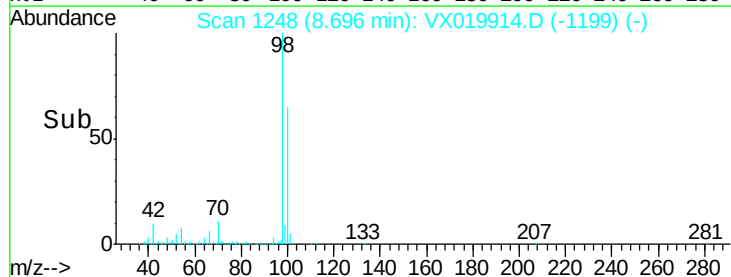
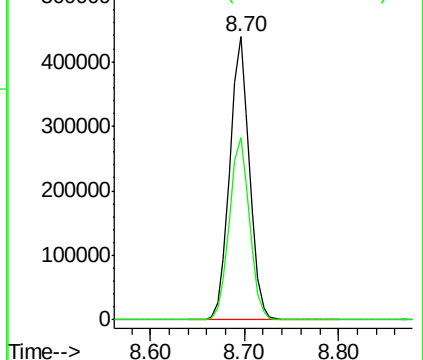
98 100

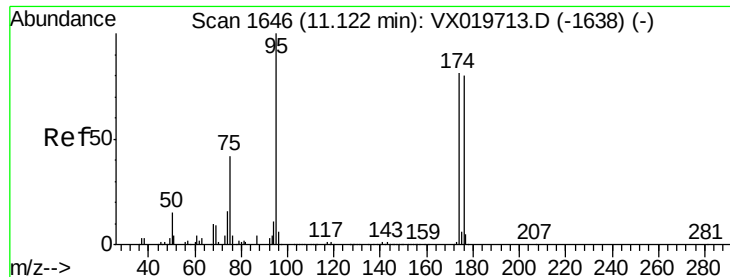
100 66.0 51.9 77.9



Abundance Ion 98.00 (97.70 to 98.70): VX0

Ion 100.00 (99.70 to 100.70): V





#62

4-Bromofluorobenzene

Concen: 45.179 ug/l

RT: 11.12 min Scan# 1646

Delta R.T. 0.00 min

Lab File: VX019914.D

Acq: 12 Dec 2020 07:43

Instrument :

MSVOA_X

ClientSampleId :

TU032-32-6031-120920

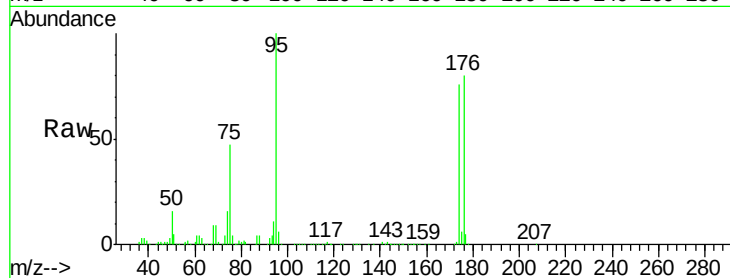
Tgt Ion: 95 Resp: 223201

Ion Ratio Lower Upper

95 100

174 77.4 0.0 154.6

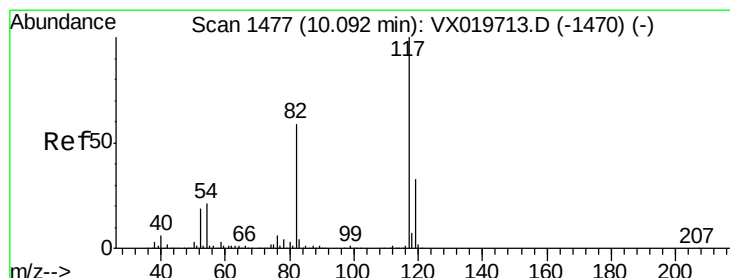
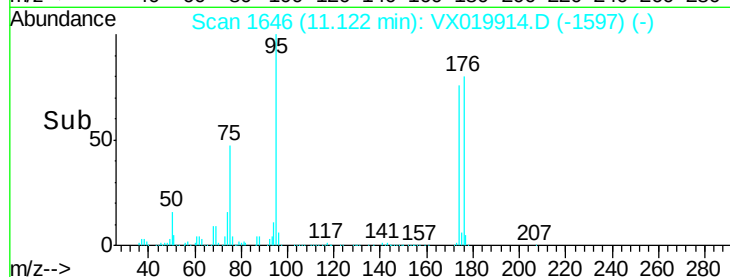
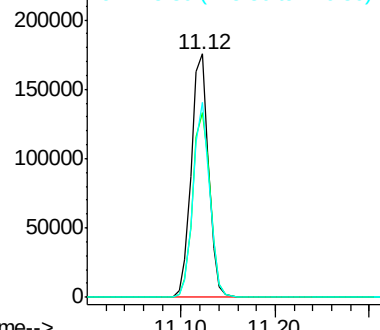
176 76.7 0.0 155.8



Abundance Ion 94.90 (94.60 to 95.60): VX0

Ion 173.80 (173.50 to 174.50): VX0

Ion 175.80 (175.50 to 176.50): VX0



#63

Chlorobenzene-d5

Concen: 50.000 ug/l

RT: 10.09 min Scan# 1477

Delta R.T. 0.00 min

Lab File: VX019914.D

Acq: 12 Dec 2020 07:43

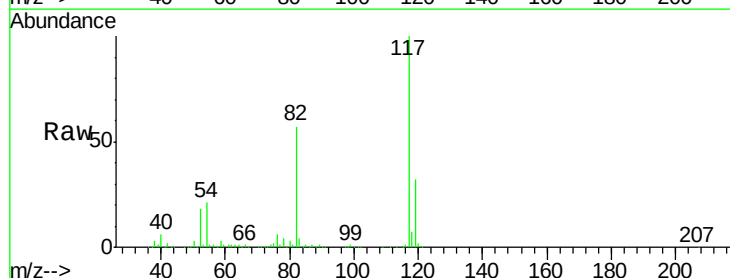
Tgt Ion: 117 Resp: 485386

Ion Ratio Lower Upper

117 100

82 57.1 47.4 71.2

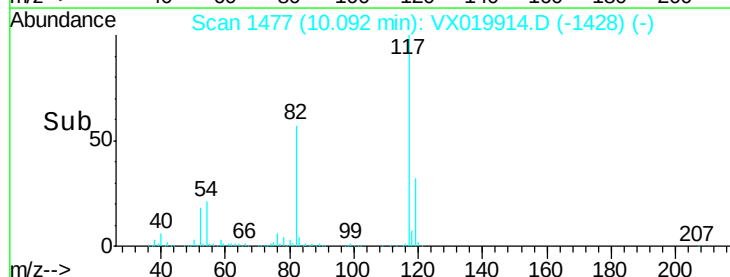
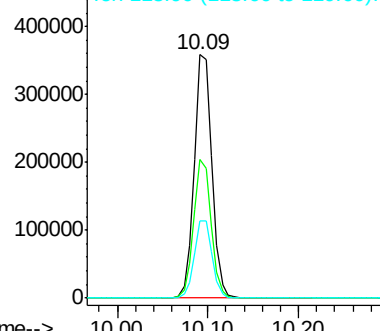
119 31.6 26.6 39.8

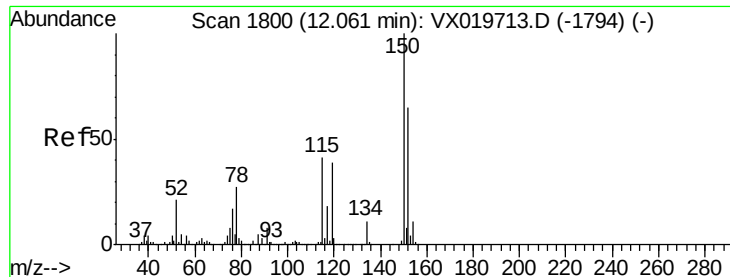


Abundance Ion 116.90 (116.60 to 117.60): VX0

Ion 82.00 (81.70 to 82.70): VX0

Ion 118.90 (118.60 to 119.60): VX0





#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

RT: 12.06 min Scan# 1800

Delta R.T. 0.00 min

Lab File: VX019914.D

Acq: 12 Dec 2020 07:43

Instrument :

MSVOA_X

ClientSampleId :

TU032-32-6031-120920

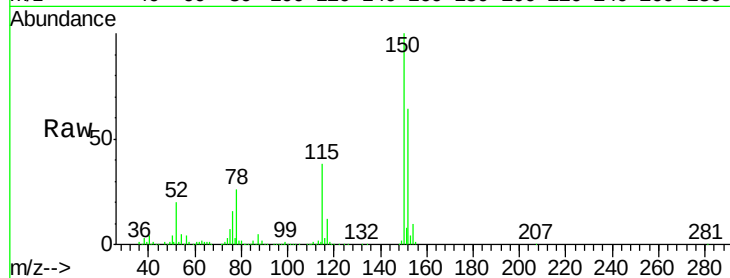
Tgt Ion:152 Resp: 214236

Ion Ratio Lower Upper

152 100

115 59.6 41.1 123.3

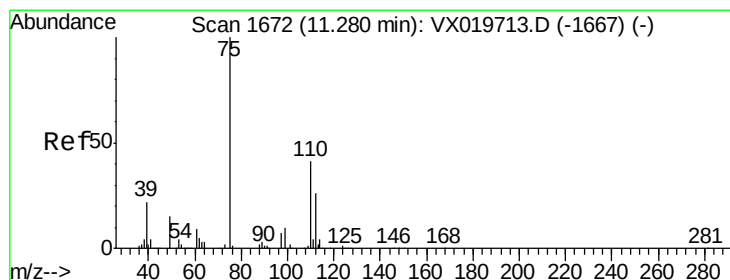
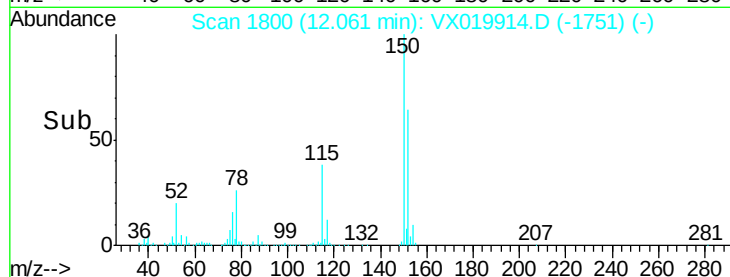
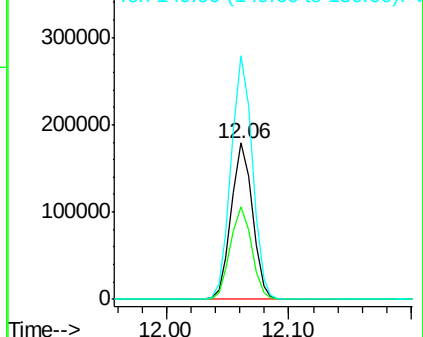
150 156.7 0.0 349.0



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: 22.715 ug/l

RT: 11.12 min Scan# 1645

Delta R.T. -0.16 min

Lab File: VX019914.D

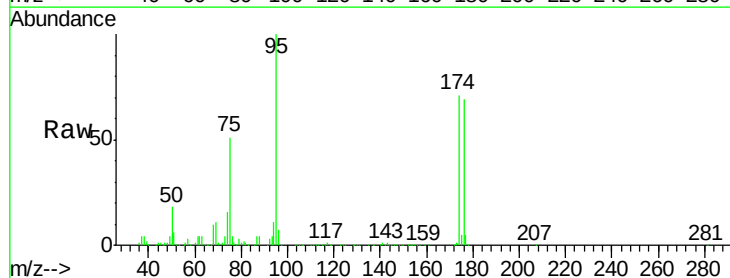
Acq: 12 Dec 2020 07:43

Tgt Ion: 75 Resp: 109144

Ion Ratio Lower Upper

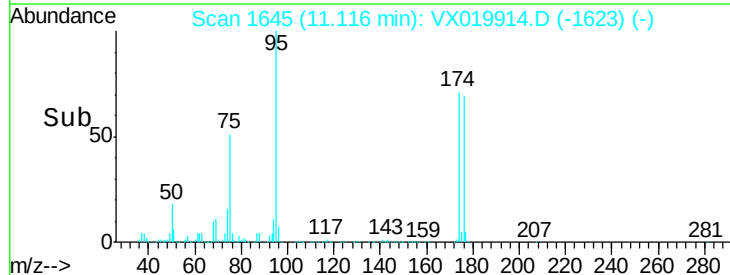
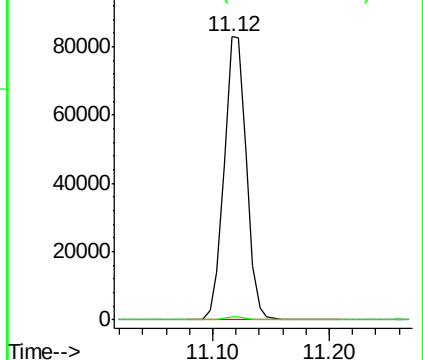
75 100

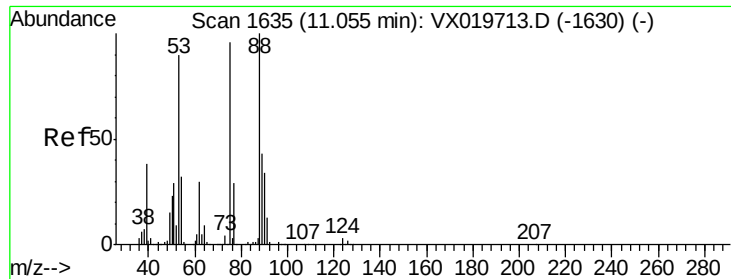
77 1.2 19.1 57.5#



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: 65.665 ug/l
 RT: 11.12 min Scan# 1645
 Delta R.T. 0.06 min
 Lab File: VX019914.D
 Acq: 12 Dec 2020 07:43

Instrument :
 MSVOA_X
 ClientSampleId :
 TU032-32-6031-120920

Tgt Ion: 75 Resp: 109144
 Ion Ratio Lower Upper
 75 100
 53 0.1 74.5 111.7#
 89 0.0 37.9 56.9#

