

Data Path : Z:\VOASRV\HPCHEM1\MSVOA X\DATA\WX030119\
 Data File : VX007793.D
 Acq On : 01 Mar 2019 16:46
 Operator : JC/SP
 Sample : K1701-03
 Misc : 5.0mL/MSVOA X/WATER
 ALS Vial : 15 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :
 M2-T4-OZ(PRE)

Quant Time: Mar 01 22:20:53 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_X\METHOD\82X022519W.M
 Quant Title : SW846 8260
 QLast Update : Tue Feb 26 01:53:13 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	5.67	168	332454	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	6.86	114	514587	50.00	ug/l	0.00
63) Chlorobenzene-d5	10.11	117	485465	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.08	152	233813	50.00	ug/l	0.00

System Monitoring Compounds	R.T.	QIon	Response	Conc	Units	Dev(Min)
33) 1,2-Dichloroethane-d4	6.07	65	190282	46.21	ug/l	0.00
Spiked Amount			Recovery	=	92.42%	
35) Dibromofluoromethane	5.51	113	168049	48.85	ug/l	0.00
Spiked Amount			Recovery	=	97.70%	
50) Toluene-d8	8.71	98	631443	47.95	ug/l	0.00
Spiked Amount			Recovery	=	95.90%	
62) 4-Bromofluorobenzene	11.13	95	226202	46.80	ug/l	0.00
Spiked Amount			Recovery	=	93.60%	

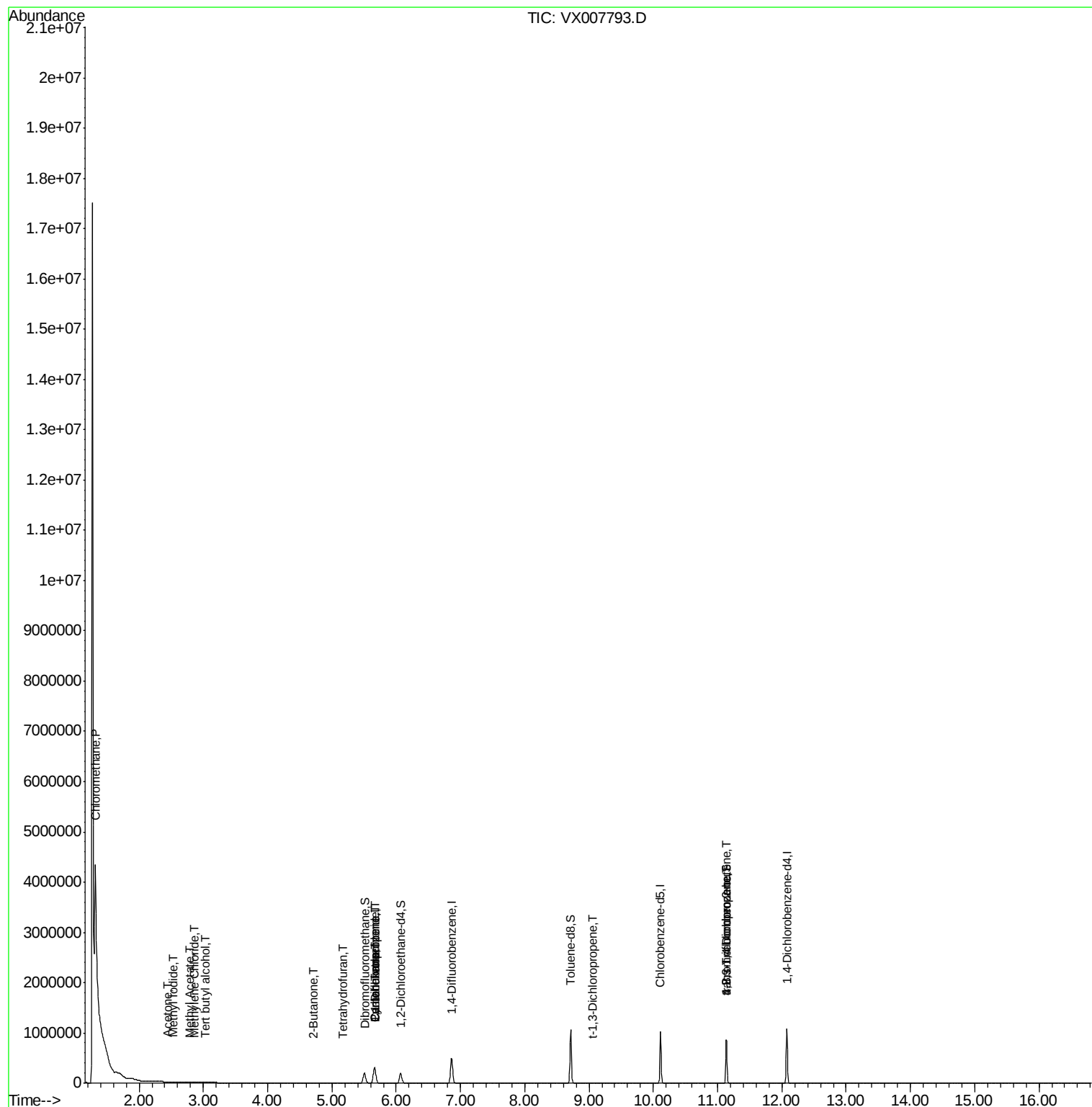
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
3) Chloromethane	1.32	50	293958	86.617	ug/l #	43
5) Bromomethane	1.65	94	496	Below Cal		87
10) Methyl Iodide	2.52	142	809	0.201	ug/l #	97
11) Tert butyl alcohol	3.03	59	3624	4.638	ug/l #	84
16) Acetone	2.45	43	4070	2.222	ug/l	92
18) Methyl Acetate	2.78	43	1312	0.328	ug/l	95
20) Methylene Chloride	2.86	84	681	0.201	ug/l #	84
25) 2-Butanone	4.70	43	1093	0.392	ug/l	90
29) Tetrahydrofuran	5.17	42	1063	0.578	ug/l #	72
31) Cyclohexane	5.67	56	5500	0.961	ug/l #	1
36) 1,1-Dichloropropene	5.67	75	20578	4.448	ug/l #	48
38) Carbon Tetrachloride	5.66	117	28260	6.081	ug/l #	17
53) t-1,3-Dichloropropene	9.05	75	19	2.806	ug/l #	43
76) 1,2,3-Trichloropropane	11.13	75	106670	21.403	ug/l #	32
81) trans-1,4-Dichloro-2-buten	11.13	75	106670	56.912	ug/l #	9

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

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Quant Method : Z:\V0ASRV\HPCHEM1\MSVOA_X\METHOD\82X022519W.M
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#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 5.67 min Scan# 740

Delta R.T. 0.00 min

Lab File: VX007793.D

Acq: 01 Mar 2019 16:46

Instrument :

MSVOA_X

ClientSampleId :

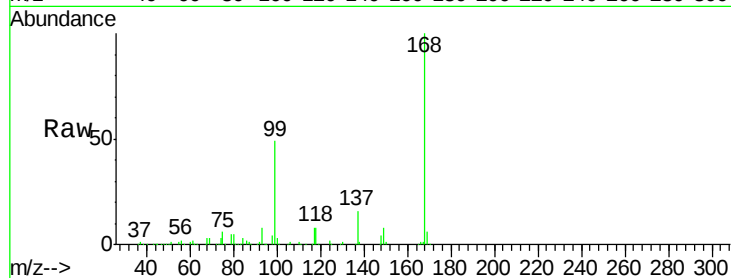
M2-T4-OZ(PRE)

Tot Ion:168 Resp: 332454

Ion Ratio Lower Upper

168 100

99 48.7 37.9 56.9



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VX0

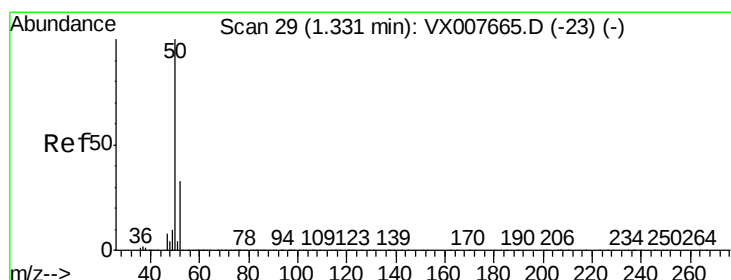
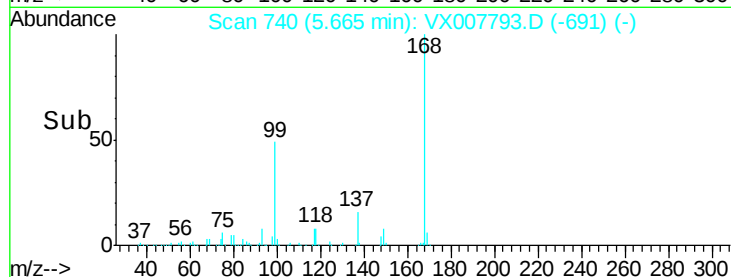
5.67

100000

50000

0

Time--> 5.50 5.60 5.70 5.80



#3

Chloromethane

Concen: 86.617 ug/l

RT: 1.32 min Scan# 27

Delta R.T. -0.01 min

Lab File: VX007793.D

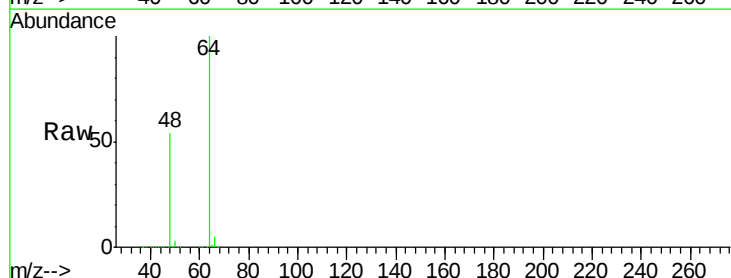
Acq: 01 Mar 2019 16:46

Tgt Ion: 50 Resp: 293958

Ion Ratio Lower Upper

50 100

52 0.4 26.1 39.1#



Abundance Ion 49.90 (49.60 to 50.60): VX0

Ion 51.90 (51.60 to 52.60): VX0

400000

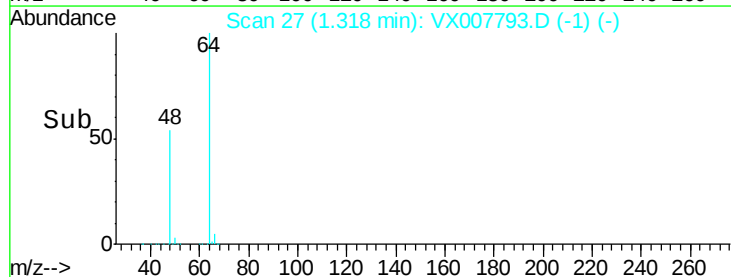
300000

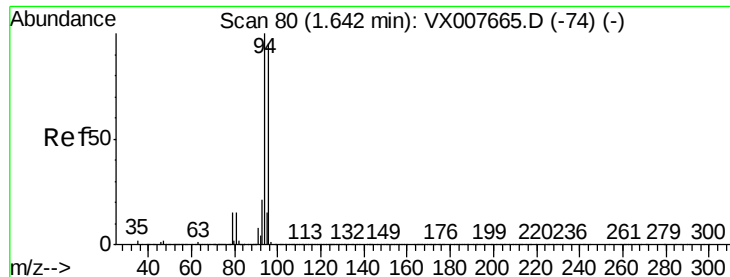
200000

100000

0

Time--> 1.20 1.40 1.60





#5

Bromomethane

Concen: Below Cal

RT: 1.65 min Scan# 81

Delta R.T. 0.01 min

Lab File: VX007793.D

Acq: 01 Mar 2019 16:46

Instrument :

MSVOA_X

ClientSampleId :

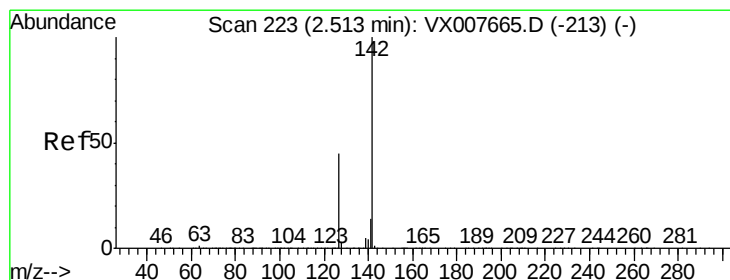
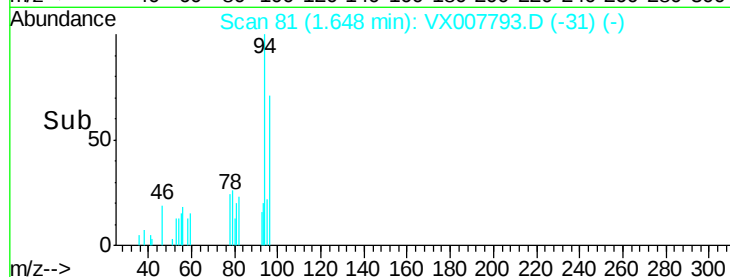
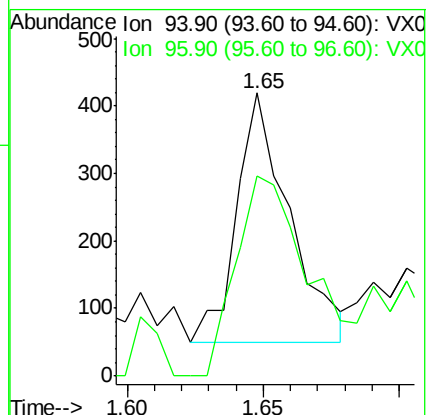
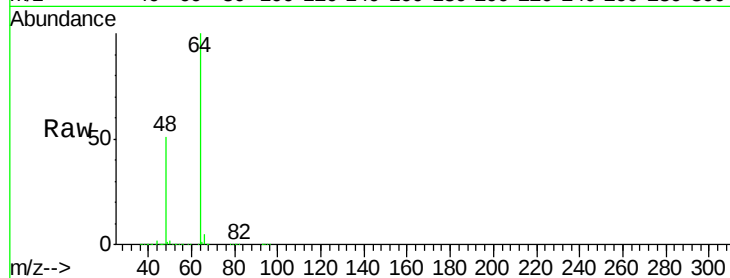
M2-T4-OZ(PRE)

Tot Ion: 94 Resp: 496

Ion Ratio Lower Upper

94 100

96 80.2 73.9 110.9



#10

Methyl Iodide

Concen: 0.201 ug/l

RT: 2.52 min Scan# 224

Delta R.T. 0.01 min

Lab File: VX007793.D

Acq: 01 Mar 2019 16:46

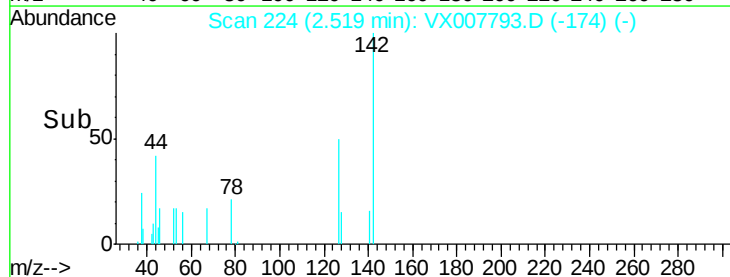
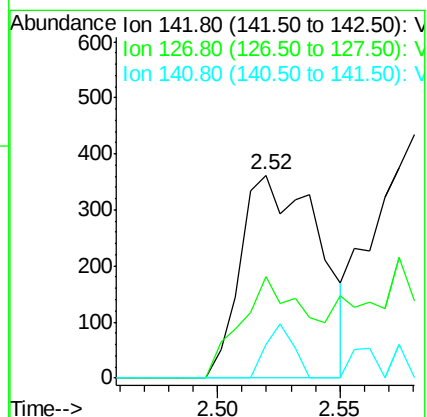
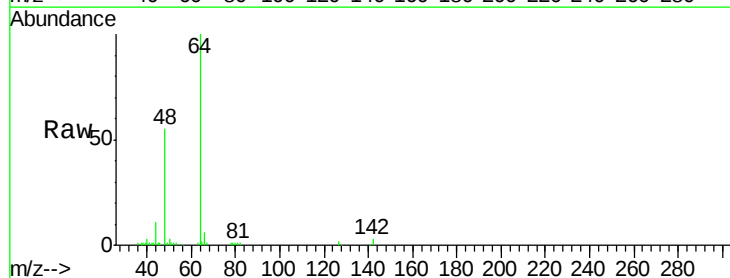
Tgt Ion: 142 Resp: 809

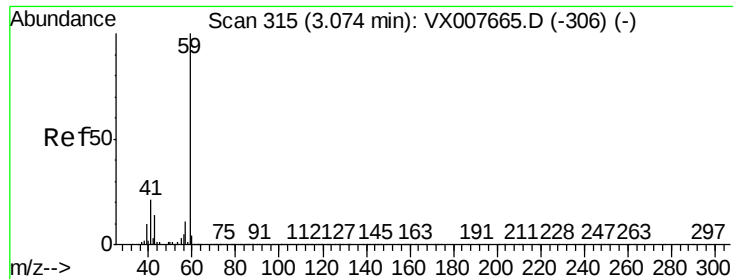
Ion Ratio Lower Upper

142 100

127 42.4 33.7 50.5

141 9.4 11.3 16.9#



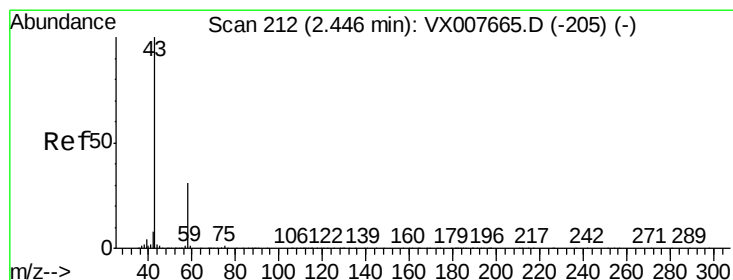
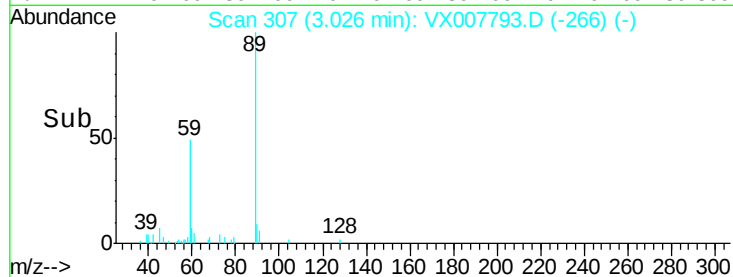
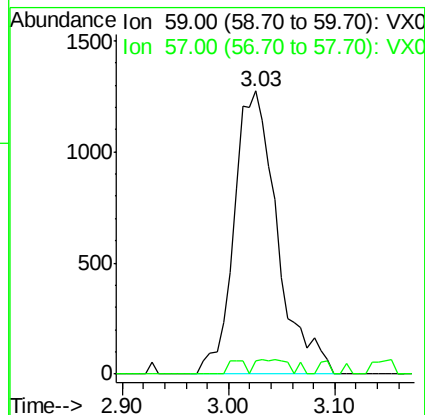
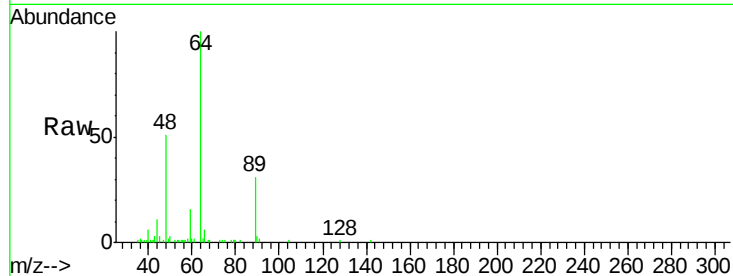


#11

Tert butyl alcohol
 Concen: 4.638 ug/l
 RT: 3.03 min Scan# 307
 Delta R.T. -0.05 min
 Lab File: VX007793.D
 Acq: 01 Mar 2019 16:46

Instrument :
 MSVOA_X
 ClientSampleId :
 M2-T4-OZ(PRE)

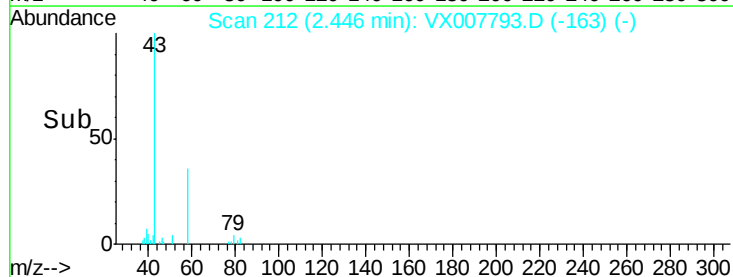
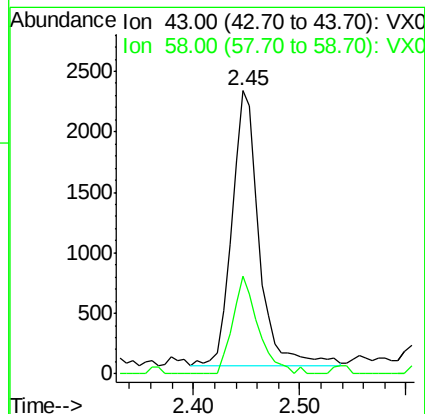
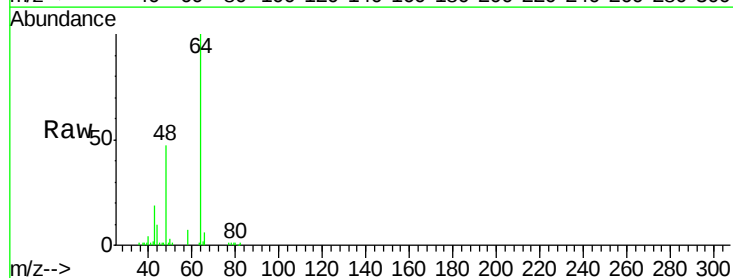
Tot Ion: 59 Resp: 3624
 Ion Ratio Lower Upper
 59 100
 57 4.2 8.1 12.1#

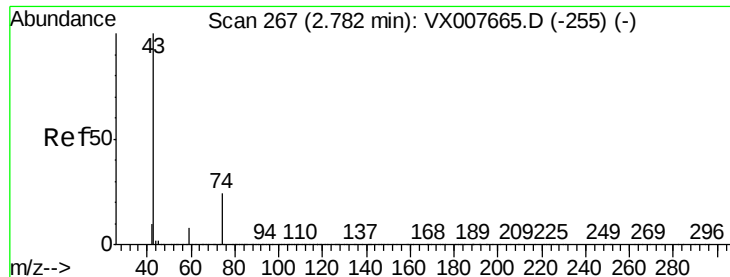


#16

Acetone
 Concen: 2.222 ug/l
 RT: 2.45 min Scan# 212
 Delta R.T. 0.00 min
 Lab File: VX007793.D
 Acq: 01 Mar 2019 16:46

Tgt Ion: 43 Resp: 4070
 Ion Ratio Lower Upper
 43 100
 58 35.4 24.9 37.3

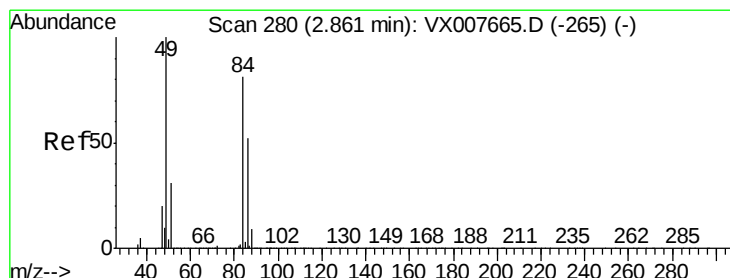
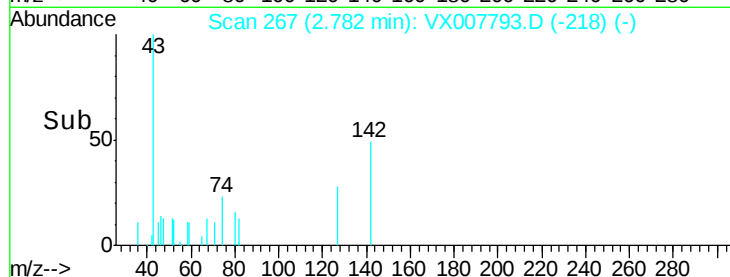
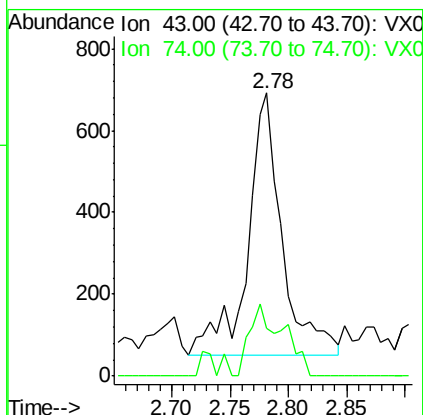
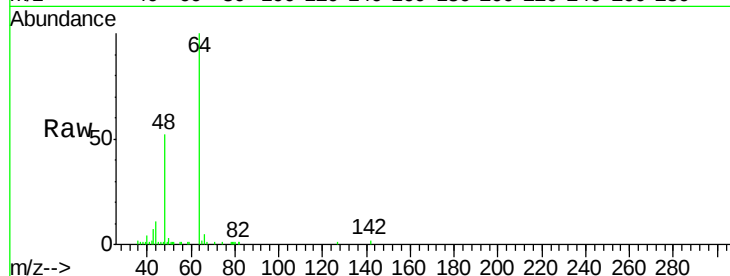




#18
Methyl Acetate
Concen: 0.328 ug/l
RT: 2.78 min Scan# 267
Delta R.T. 0.00 min
Lab File: VX007793.D
Acq: 01 Mar 2019 16:46

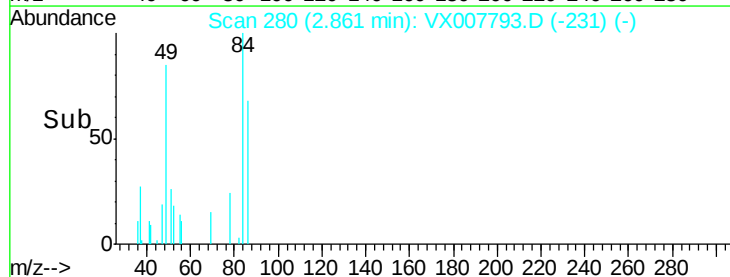
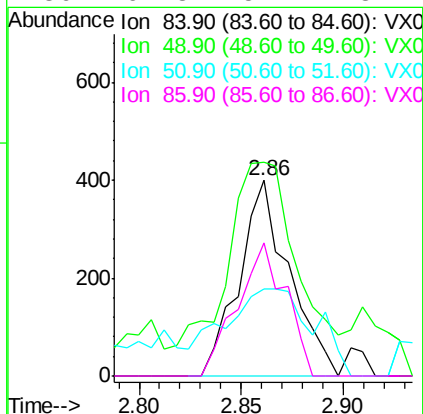
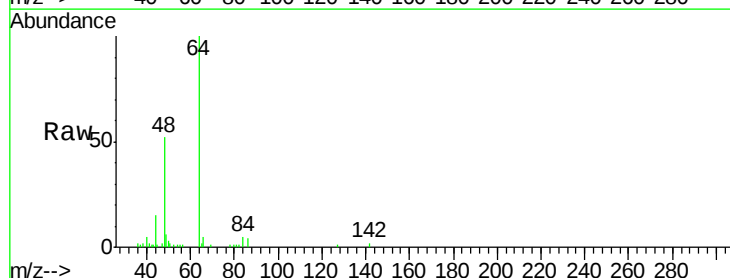
Instrument :
MSVOA_X
ClientSampleId :
M2-T4-OZ(PRE)

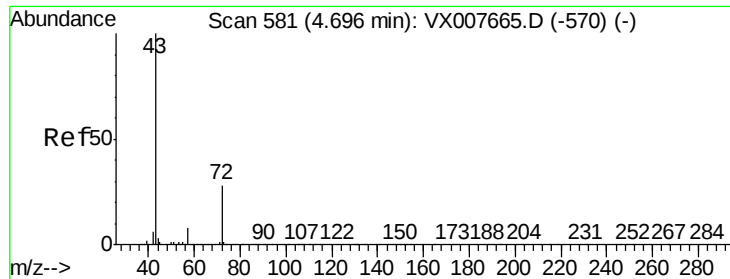
Tot Ion: 43 Resp: 1312
Ion Ratio Lower Upper
43 100
74 26.8 19.4 29.2



#20
Methylene Chloride
Concen: 0.201 ug/l
RT: 2.86 min Scan# 280
Delta R.T. 0.00 min
Lab File: VX007793.D
Acq: 01 Mar 2019 16:46

Tgt Ion: 84 Resp: 681
Ion Ratio Lower Upper
84 100
49 88.3 94.8 142.2#
51 31.0 29.8 44.8
86 67.8 54.1 81.1





#25

2-Butanone

Concen: 0.392 ug/l

RT: 4.70 min Scan# 582

Delta R.T. 0.01 min

Lab File: VX007793.D

Acq: 01 Mar 2019 16:46

Instrument :

MSVOA_X

ClientSampleId :

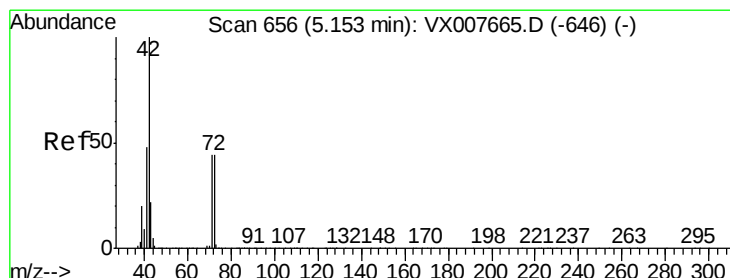
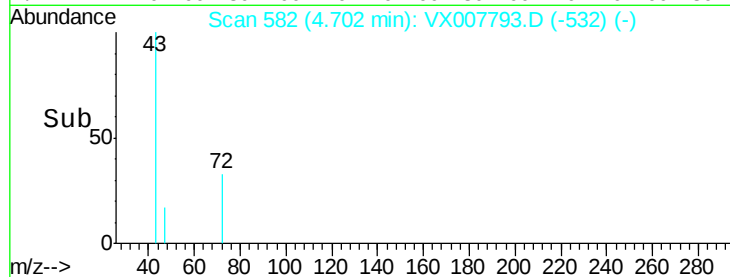
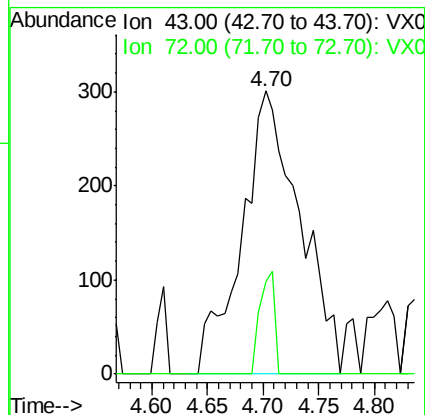
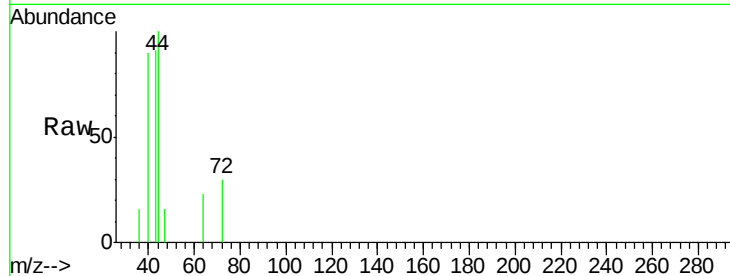
M2-T4-OZ(PRE)

Tot Ion: 43 Resp: 1093

Ion Ratio Lower Upper

43 100

72 32.9 22.2 33.2



#29

Tetrahydrofuran

Concen: 0.578 ug/l

RT: 5.17 min Scan# 659

Delta R.T. 0.02 min

Lab File: VX007793.D

Acq: 01 Mar 2019 16:46

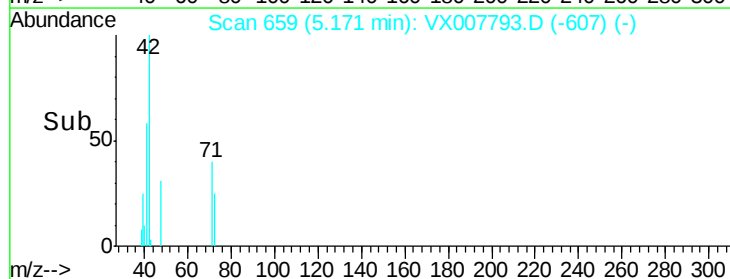
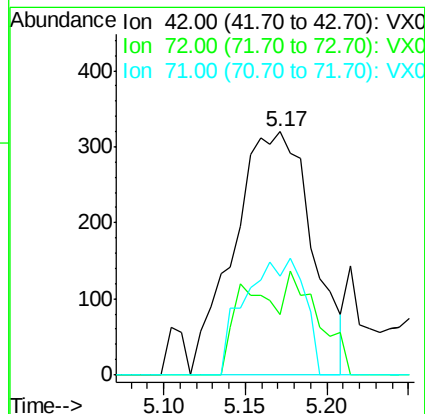
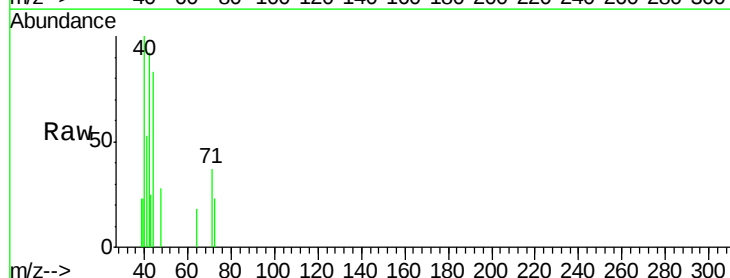
Tgt Ion: 42 Resp: 1063

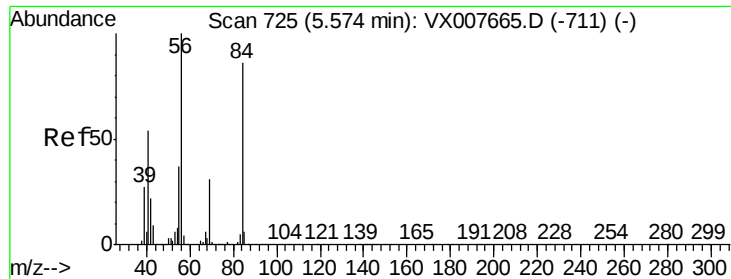
Ion Ratio Lower Upper

42 100

72 17.8 37.6 56.4#

71 36.1 34.6 51.8

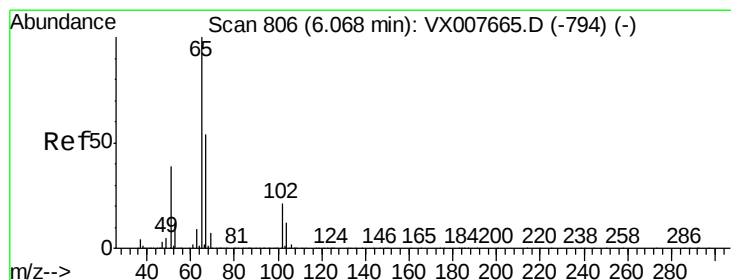
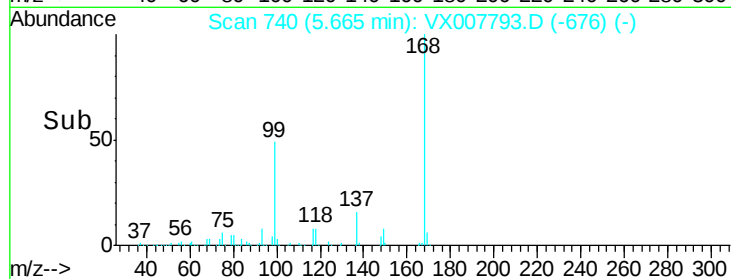
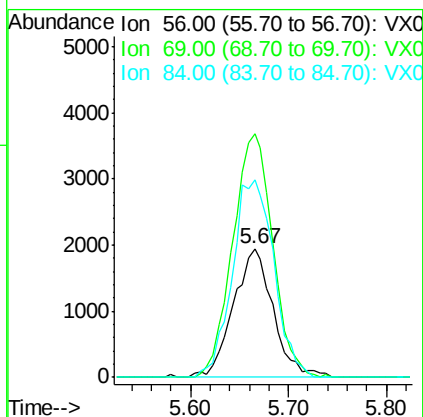
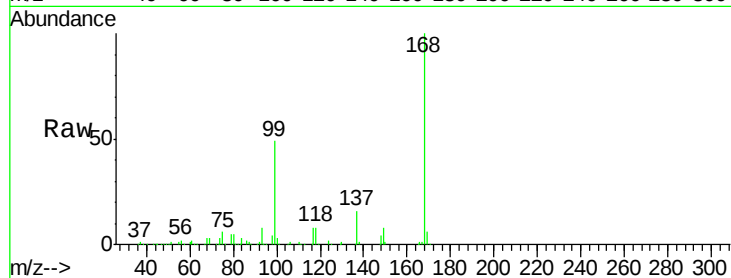




#31
Cvclohexane
Concen: 0.961 ug/l
RT: 5.67 min Scan# 740
Delta R.T. 0.09 min
Lab File: VX007793.D
Acq: 01 Mar 2019 16:46

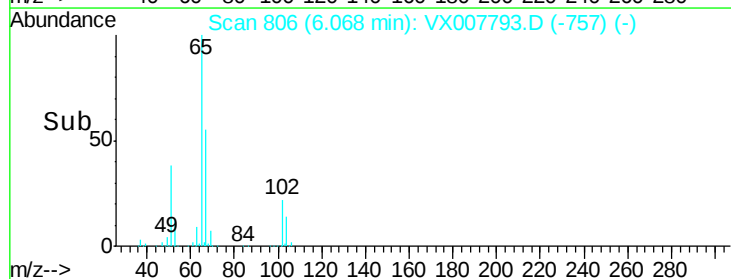
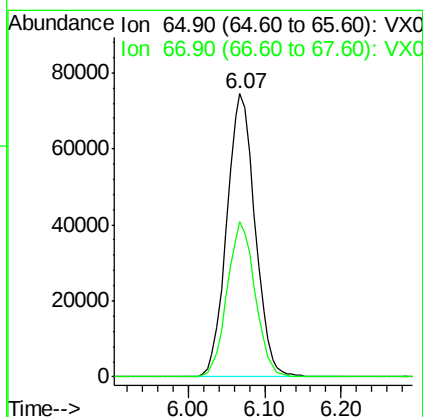
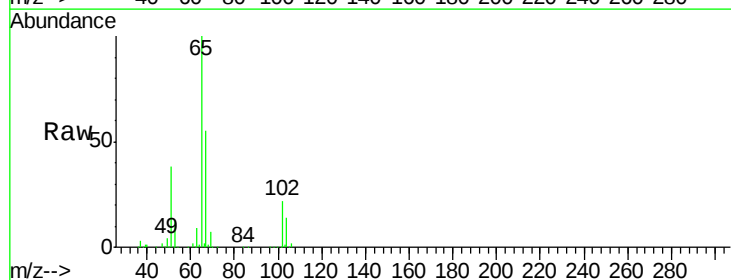
Instrument :
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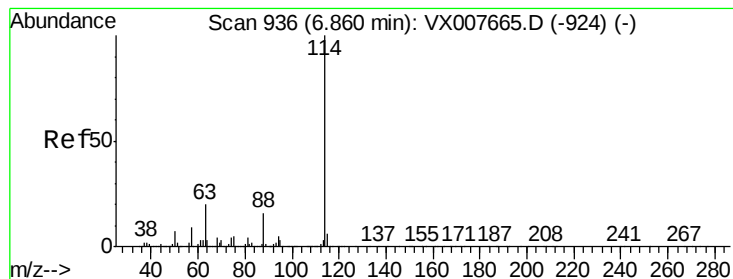
Tot Ion: 56 Resp: 5500
Ion Ratio Lower Upper
56 100
69 188.9 23.0 34.6#
84 153.7 69.8 104.6#



#33
1,2-Dichloroethane-d4
Concen: 46.207 ug/l
RT: 6.07 min Scan# 806
Delta R.T. 0.00 min
Lab File: VX007793.D
Acq: 01 Mar 2019 16:46

Tgt Ion: 65 Resp: 190282
Ion Ratio Lower Upper
65 100
67 54.2 0.0 108.8





#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 6.86 min Scan# 936

Delta R.T. 0.00 min

Lab File: VX007793.D

Acq: 01 Mar 2019 16:46

Instrument :

MSVOA_X

ClientSampleId :

M2-T4-OZ(PRE)

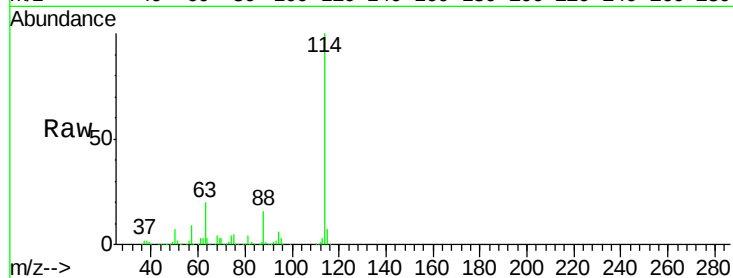
Tot Ion:114 Resp: 514587

Ion Ratio Lower Upper

114 100

63 20.3 0.0 35.6

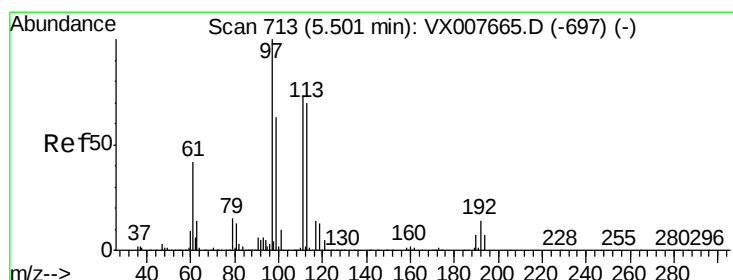
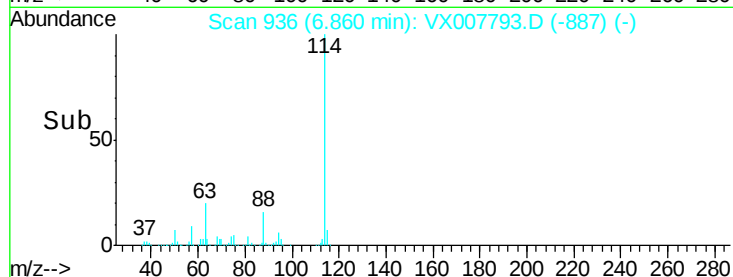
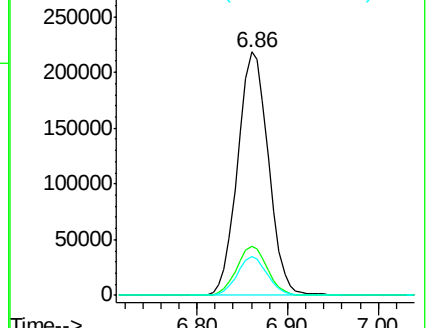
88 15.7 0.0 29.6



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: 48.854 ug/l

RT: 5.51 min Scan# 714

Delta R.T. 0.01 min

Lab File: VX007793.D

Acq: 01 Mar 2019 16:46

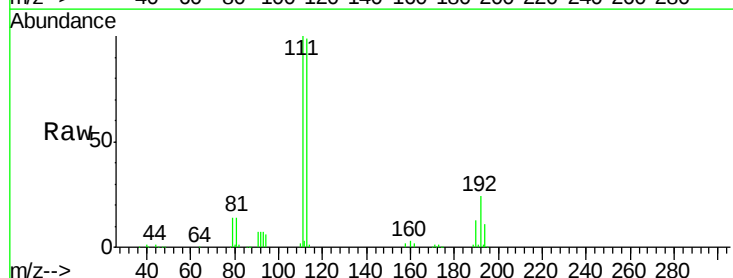
Tgt Ion:113 Resp: 168049

Ion Ratio Lower Upper

113 100

111 102.5 81.8 122.8

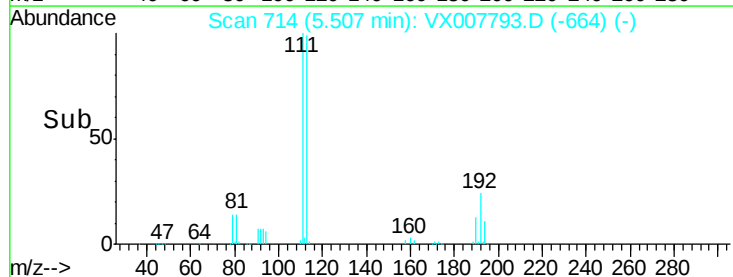
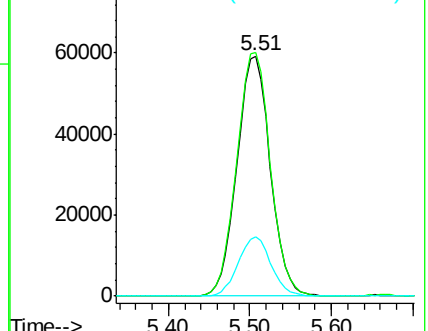
192 24.4 18.5 27.7

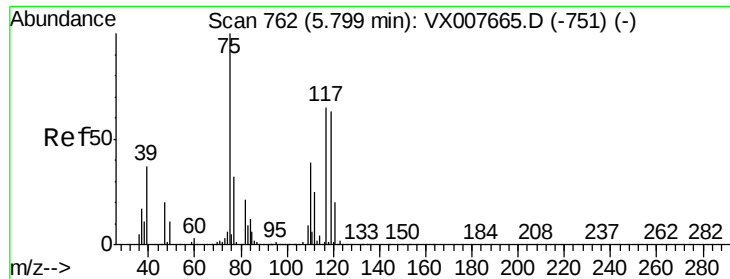


Abundance Ion 112.80 (112.50 to 113.50): V

Ion 110.80 (110.50 to 111.50): V

Ion 191.70 (191.40 to 192.40): V





#36

1,1-Dichloropropene

Concen: 4.448 ug/l

RT: 5.67 min Scan# 740

Delta R.T. -0.13 min

Lab File: VX007793.D

Acq: 01 Mar 2019 16:46

Instrument :

MSVOA_X

ClientSampleId :

M2-T4-OZ(PRE)

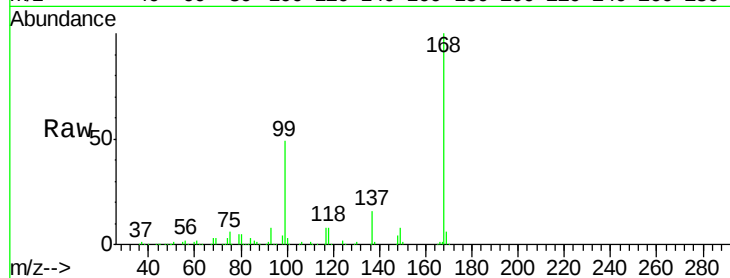
Tot Ion: 75 Resp: 20578

Ion Ratio Lower Upper

75 100

110 10.1 20.0 59.9#

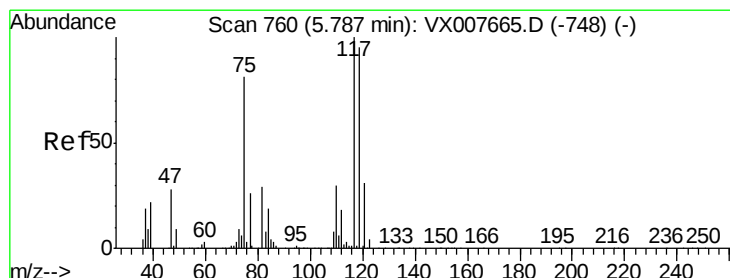
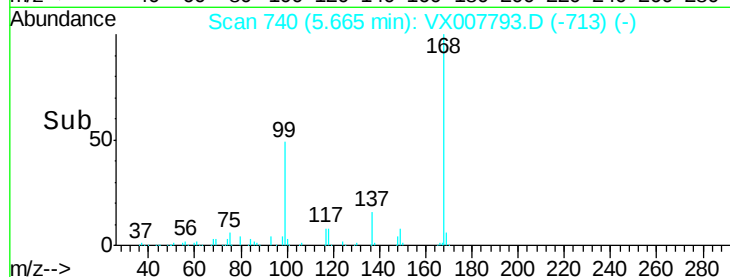
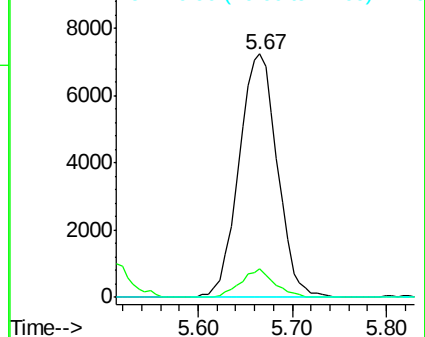
77 0.0 24.7 37.1#



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: 6.081 ug/l

RT: 5.66 min Scan# 739

Delta R.T. -0.13 min

Lab File: VX007793.D

Acq: 01 Mar 2019 16:46

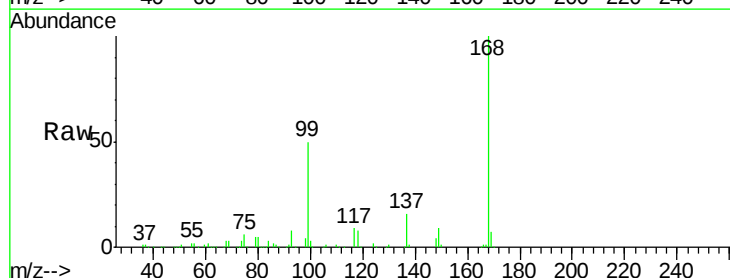
Tgt Ion: 117 Resp: 28260

Ion Ratio Lower Upper

117 100

119 5.0 75.3 112.9#

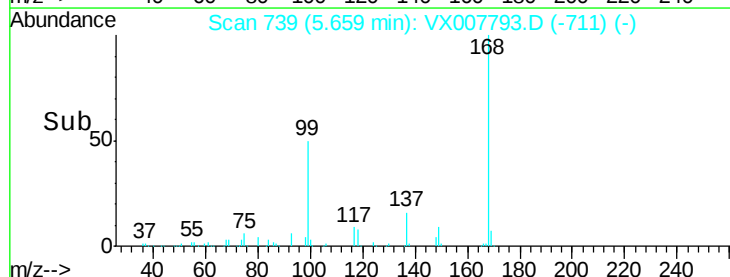
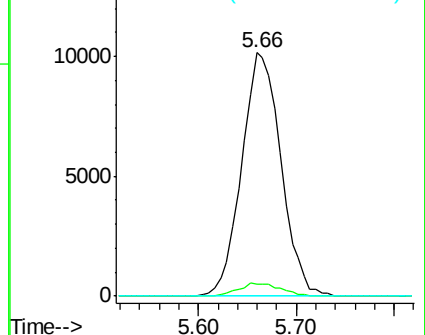
121 0.0 25.0 37.4#

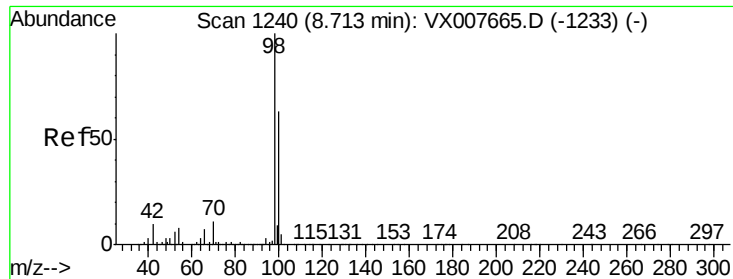


Abundance Ion 116.80 (116.50 to 117.50): V

Ion 118.80 (118.50 to 119.50): V

Ion 120.80 (120.50 to 121.50): V





#50

Toluene-d8

Concen: 47.949 ug/l

RT: 8.71 min Scan# 1240

Delta R.T. 0.00 min

Lab File: VX007793.D

Acq: 01 Mar 2019 16:46

Instrument :

MSVOA_X

ClientSampleId :

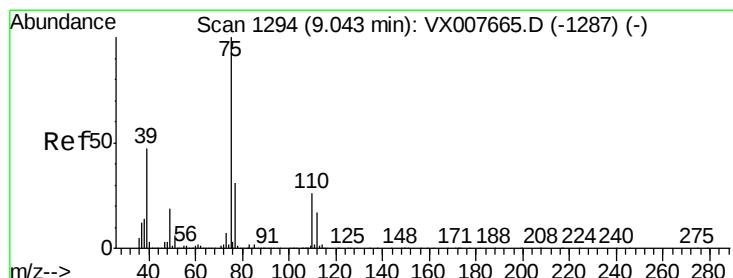
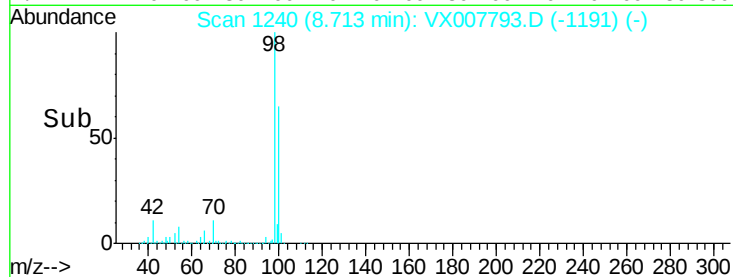
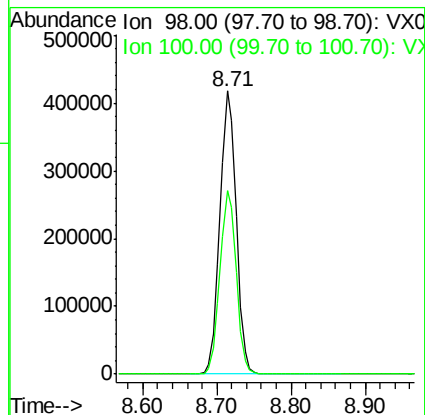
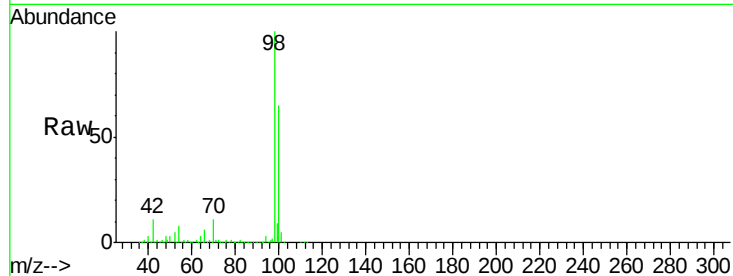
M2-T4-OZ(PRE)

Tot Ion: 98 Resp: 631443

Ion Ratio Lower Upper

98 100

100 64.9 51.6 77.4



#53

t-1,3-Dichloropropene

Concen: 2.806 ug/l

RT: 9.05 min Scan# 1295

Delta R.T. 0.01 min

Lab File: VX007793.D

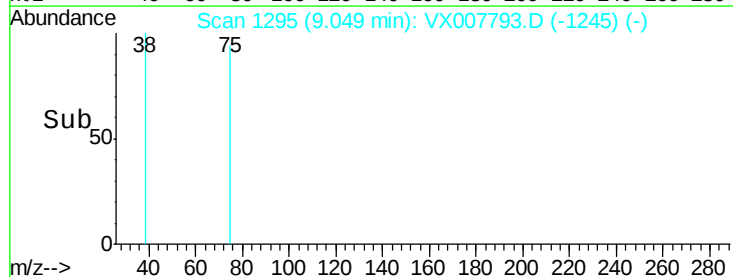
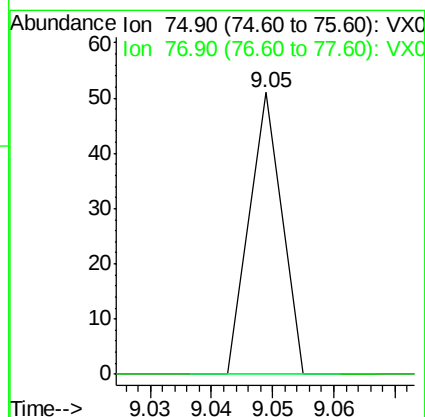
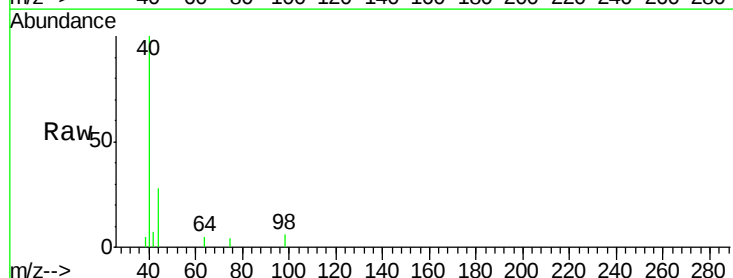
Acq: 01 Mar 2019 16:46

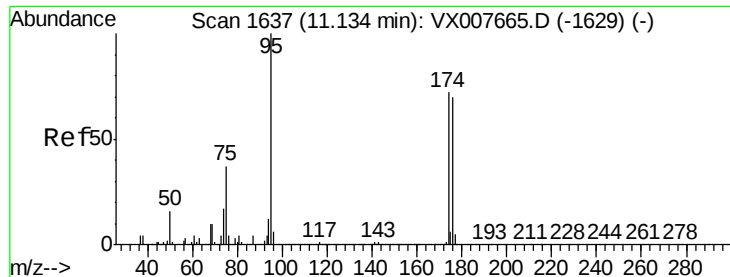
Tgt Ion: 75 Resp: 19

Ion Ratio Lower Upper

75 100

77 0.0 25.2 37.8#





#62

4-Bromofluorobenzene

Concen: 46.799 ug/l

RT: 11.13 min Scan# 1637

Delta R.T. 0.00 min

Lab File: VX007793.D

Acq: 01 Mar 2019 16:46

Instrument :

MSVOA_X

ClientSampleId :

M2-T4-OZ(PRE)

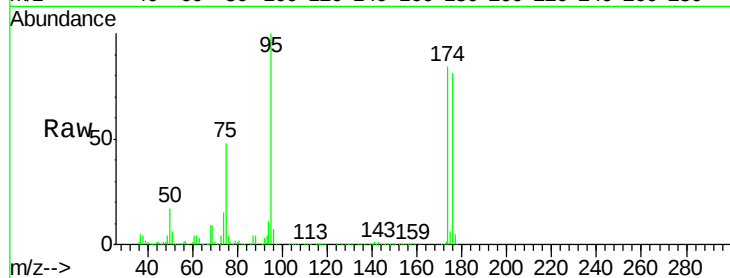
Tot Ion: 95 Resp: 226202

Ion Ratio Lower Upper

95 100

174 92.8 0.0 189.2

176 89.7 0.0 186.2

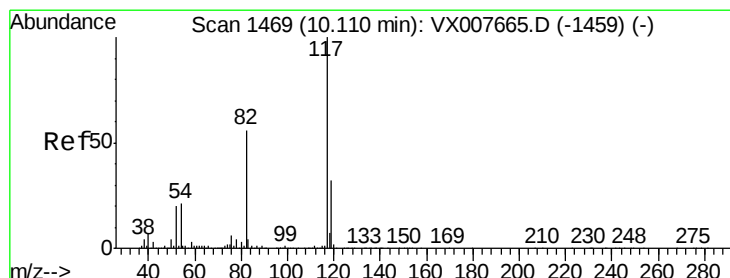
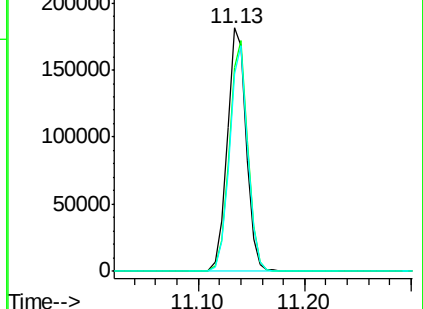
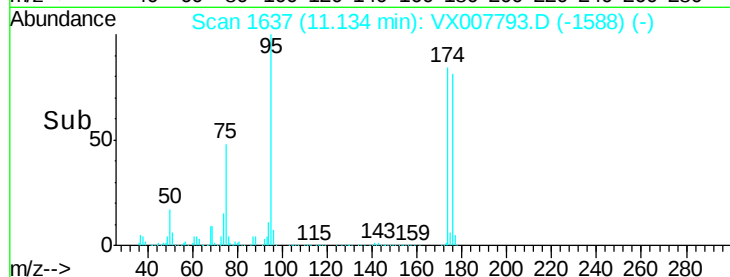


Abundance Ion 94.90 (94.60 to 95.60): VX007793.D (-1588) (-)

Ion 173.80 (173.50 to 174.50): VX007793.D (-1588) (-)

Ion 175.80 (175.50 to 176.50): VX007793.D (-1588) (-)

Time-->



#63

Chlorobenzene-d5

Concen: 50.000 ug/l

RT: 10.11 min Scan# 1469

Delta R.T. 0.00 min

Lab File: VX007793.D

Acq: 01 Mar 2019 16:46

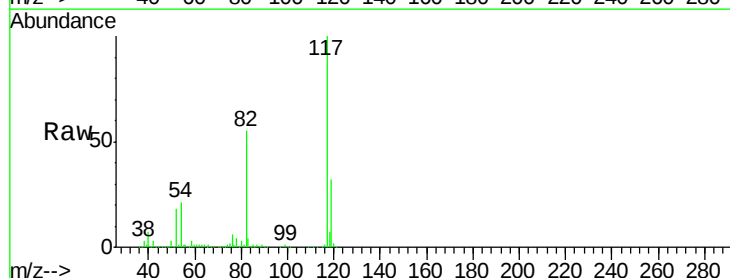
Tgt Ion: 117 Resp: 485465

Ion Ratio Lower Upper

117 100

82 55.1 42.1 63.1

119 32.0 26.5 39.7

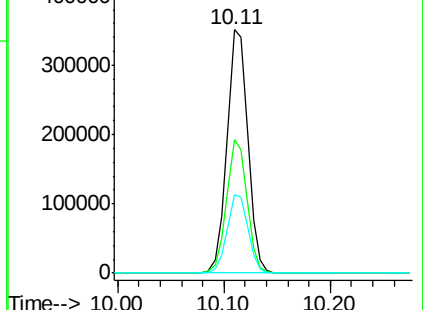
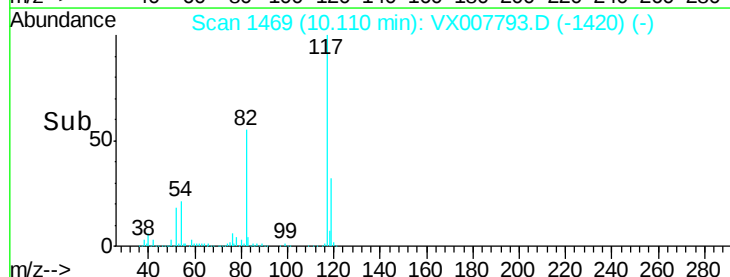


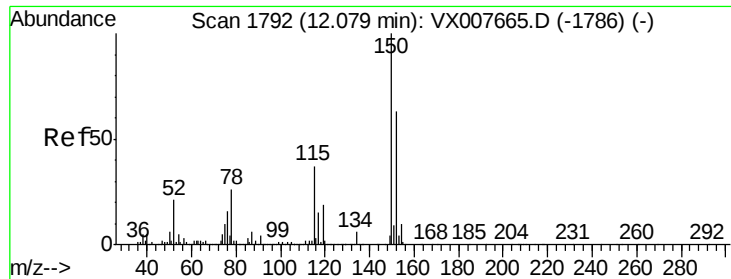
Abundance Ion 116.90 (116.60 to 117.60): VX007793.D (-1420) (-)

Ion 82.00 (81.70 to 82.70): VX007793.D (-1420) (-)

Ion 118.90 (118.60 to 119.60): VX007793.D (-1420) (-)

Time-->





#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

RT: 12.08 min Scan# 1792

Delta R.T. 0.00 min

Lab File: VX007793.D

Acq: 01 Mar 2019 16:46

Instrument :

MSVOA_X

ClientSampleId :

M2-T4-OZ(PRE)

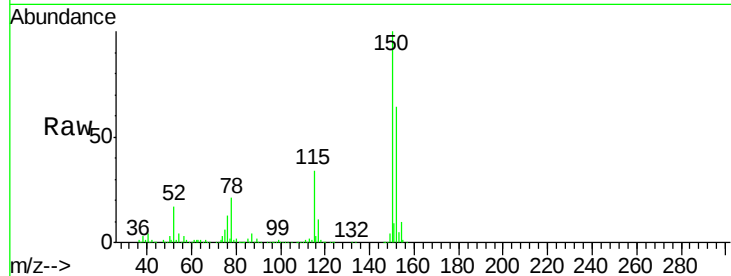
Tot Ion:152 Resp: 233813

Ion Ratio Lower Upper

152 100

115 54.5 38.0 114.0

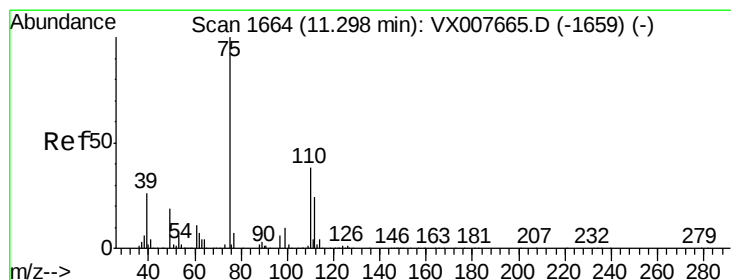
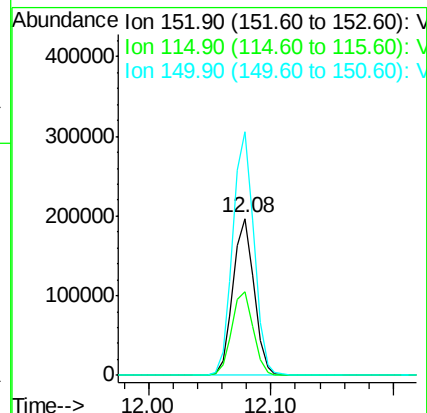
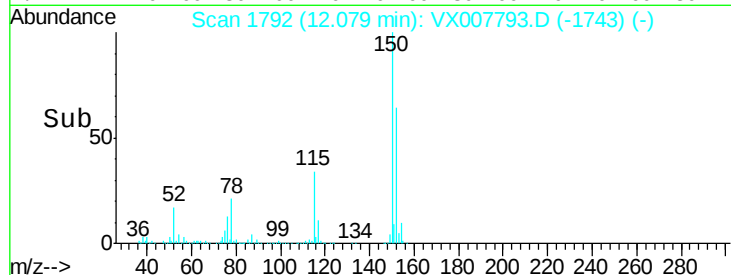
150 156.2 0.0 346.4



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: 21.403 ug/l

RT: 11.13 min Scan# 1637

Delta R.T. -0.16 min

Lab File: VX007793.D

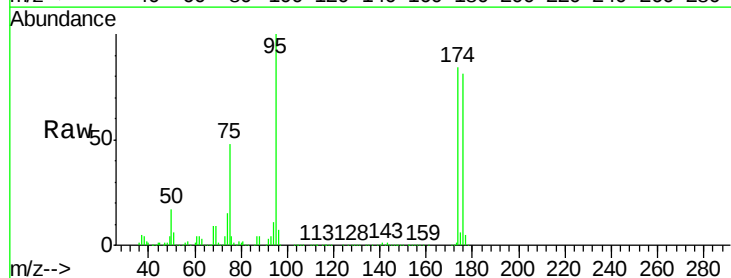
Acq: 01 Mar 2019 16:46

Tgt Ion: 75 Resp: 106670

Ion Ratio Lower Upper

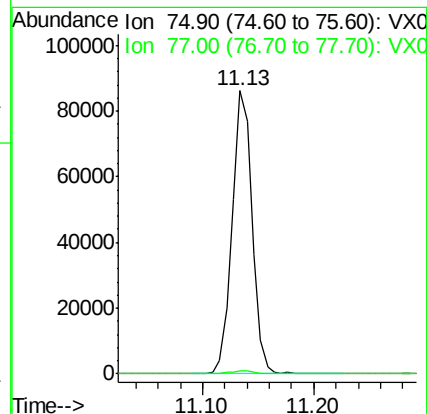
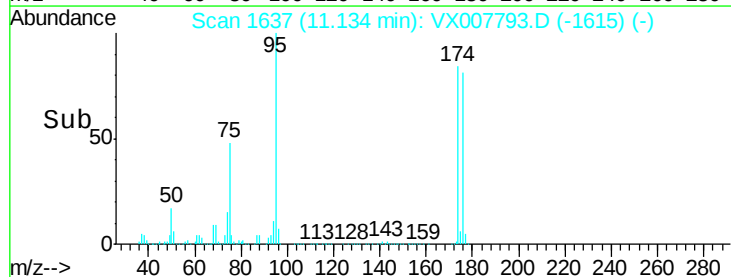
75 100

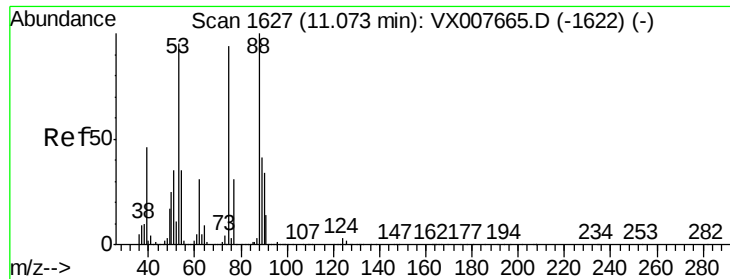
77 1.3 23.0 69.0#



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: 56.912 ug/l

RT: 11.13 min Scan# 1637

Delta R.T. 0.06 min

Lab File: VX007793.D

Acq: 01 Mar 2019 16:46

Instrument :

MSVOA_X

ClientSampleId :

M2-T4-OZ(PRE)

Tot Ion: 75 Resp: 106670

Ion Ratio Lower Upper

75 100

53 0.1 81.0 121.6#

89 0.0 41.4 62.0#

