

Data Path : Z:\VOASRV\HPCHEM1\MSVOA X\DATA\VX022819\
 Data File : VX007759.D
 Acq On : 28 Feb 2019 11:59
 Operator : JC/SP
 Sample : K1603-01
 Misc : 5.0mL/MSVOA X/WATER
 ALS Vial : 6 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :
 M1-T1-OZ(PRE)

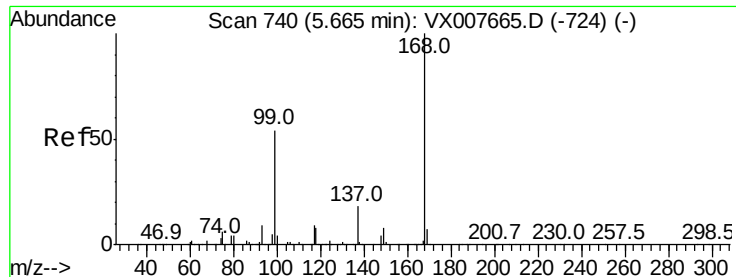
Quant Time: Mar 01 01:29:17 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_X\METHOD\82X022519W.M
 Quant Title : SW846 8260
 QLast Update : Tue Feb 26 01:53:13 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	5.67	168	311129	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	6.86	114	486490	50.00	ug/l	0.00
63) Chlorobenzene-d5	10.11	117	464092	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.08	152	222351	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	188885	49.01	ug/l	0.00
Spiked Amount			Recovery	=	98.02%	
35) Dibromofluoromethane	5.50	113	161273	49.59	ug/l	0.00
Spiked Amount			Recovery	=	99.18%	
50) Toluene-d8	8.71	98	598737	48.09	ug/l	0.00
Spiked Amount			Recovery	=	96.18%	
62) 4-Bromofluorobenzene	11.13	95	214370	46.91	ug/l	0.00
Spiked Amount			Recovery	=	93.82%	

Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
3) Chloromethane	1.32	50	140368	44.196	ug/l #	43
5) Bromomethane	1.65	94	1266	Below Cal		88
10) Methyl Iodide	2.53	142	2026	0.539	ug/l #	95
11) Tert butyl alcohol	3.03	59	9766	13.356	ug/l #	83
16) Acetone	2.45	43	4761	2.778	ug/l	93
18) Methyl Acetate	2.78	43	1112	0.297	ug/l	93
19) Methyl tert-butyl Ether	3.20	73	14919	1.574	ug/l	98
20) Methylene Chloride	2.85	84	645	0.204	ug/l #	87
24) 1,1-Dichloroethane	3.70	63	7297	1.282	ug/l	97
25) 2-Butanone	4.70	43	6983	2.675	ug/l #	85
29) Tetrahydrofuran	5.16	42	8099	4.706	ug/l	93
30) Chloroform	5.21	83	1644	0.270	ug/l	96
31) Cyclohexane	5.67	56	5587	1.043	ug/l #	1
32) 1,1,1-Trichloroethane	5.50	97	2464	0.489	ug/l #	44
36) 1,1-Dichloropropene	5.67	75	20537	4.696	ug/l #	47
37) Ethyl Acetate	4.70	43	6983	1.437	ug/l #	68
38) Carbon Tetrachloride	5.66	117	27629	6.289	ug/l #	18
41) Methacrylonitrile	5.16	41	5211	2.009	ug/l #	46
44) Trichloroethene	7.21	130	29040	7.819	ug/l	88
49) 1,4-Dioxane	7.76	88	25	0.295	ug/l #	10
53) t-1,3-Dichloropropene	9.04	75	19	2.806	ug/l #	43
60) Dibromochloromethane	9.34	129	12311	3.604	ug/l #	12
64) Tetrachloroethene	9.34	164	13659	3.625	ug/l	98
76) 1,2,3-Trichloropropane	11.13	75	104768	22.105	ug/l #	32
81) trans-1,4-Dichloro-2-buten	11.13	75	104768	58.680	ug/l #	9

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



#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 5.67 min Scan# 740

Delta R.T. 0.00 min

Lab File: VX007759.D

Acq: 28 Feb 2019 11:59

Instrument :

MSVOA_X

ClientSampleId :

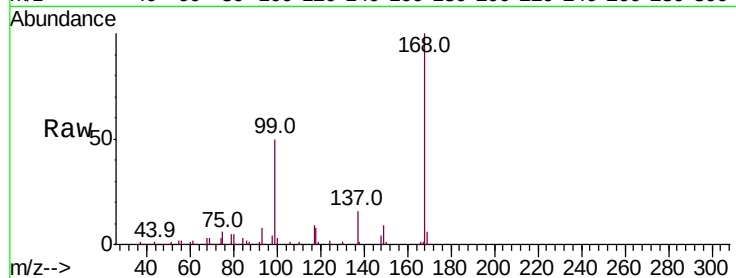
M1-T1-OZ(PRE)

Tot Ion:168 Resp: 311129

Ion Ratio Lower Upper

168 100

99 49.8 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

120000

100000

80000

60000

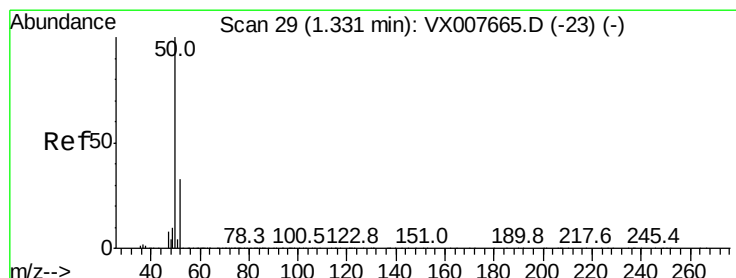
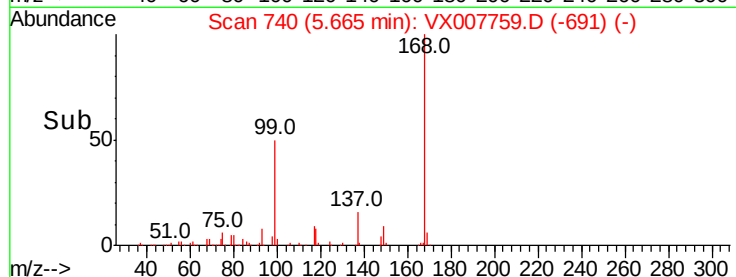
40000

20000

0

5.60 5.70 5.80

Time-->



#3

Chloromethane

Concen: 44.196 ug/l

RT: 1.32 min Scan# 27

Delta R.T. -0.01 min

Lab File: VX007759.D

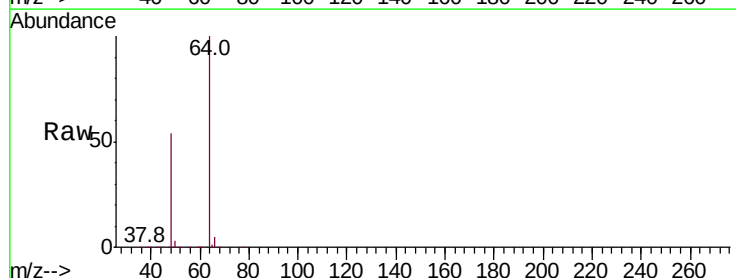
Acq: 28 Feb 2019 11:59

Tgt Ion: 50 Resp: 140368

Ion Ratio Lower Upper

50 100

52 0.7 26.1 39.1#



Abundance Ion 49.90 (49.60 to 50.60): VX0

Ion 51.90 (51.60 to 52.60): VX0

200000

150000

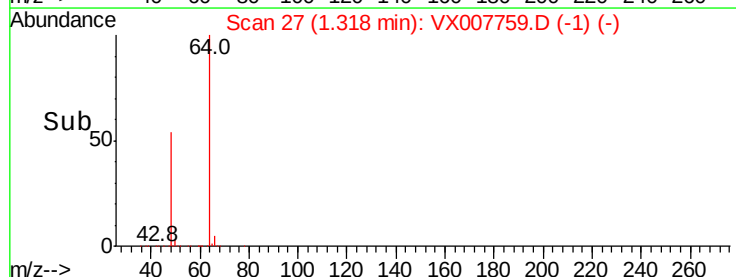
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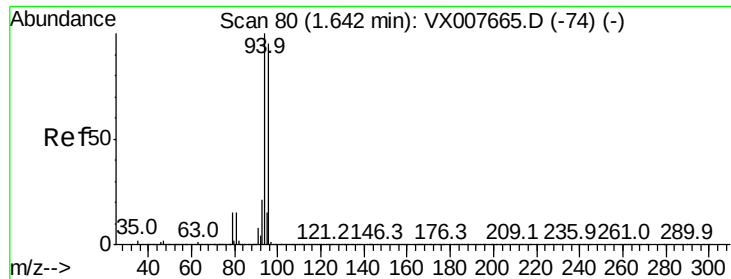
50000

0

1.20 1.40 1.60

Time-->





#5

Bromomethane

Concen: Below Cal

RT: 1.65 min Scan# 82

Delta R.T. 0.01 min

Lab File: VX007759.D

Acq: 28 Feb 2019 11:59

Instrument :

MSVOA_X

ClientSampleId :

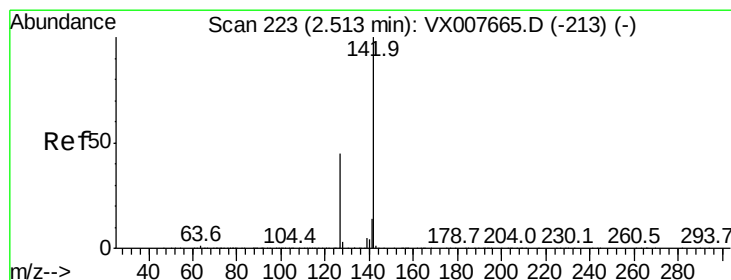
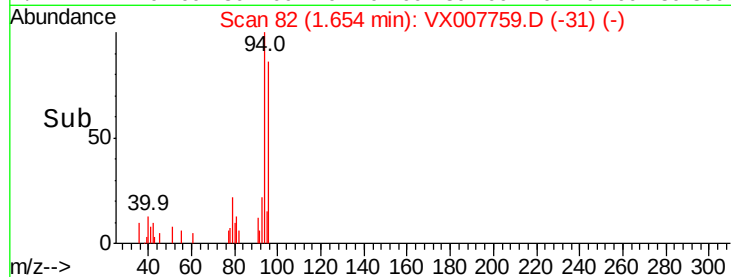
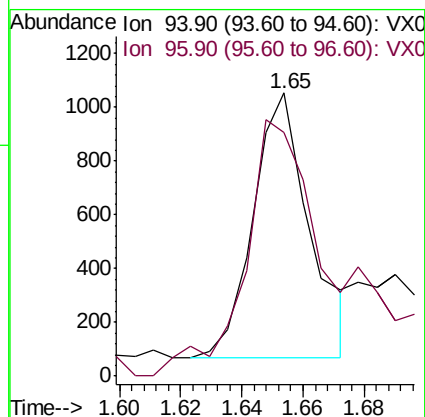
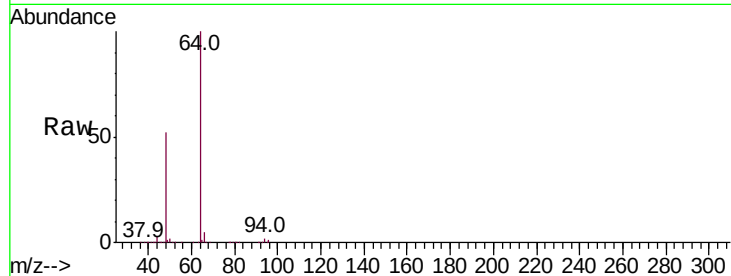
M1-T1-OZ(PRE)

Tot Ion: 94 Resp: 1266

Ion Ratio Lower Upper

94 100

96 80.6 73.9 110.9



#10

Methyl Iodide

Concen: 0.539 ug/l

RT: 2.53 min Scan# 225

Delta R.T. 0.01 min

Lab File: VX007759.D

Acq: 28 Feb 2019 11:59

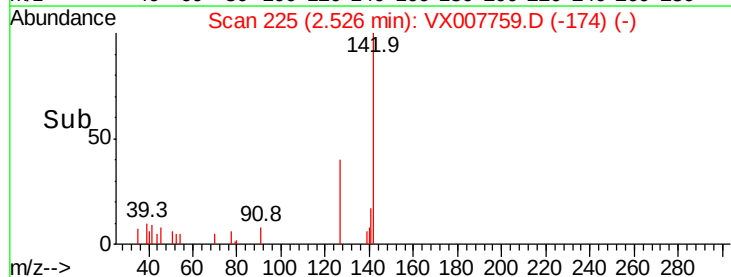
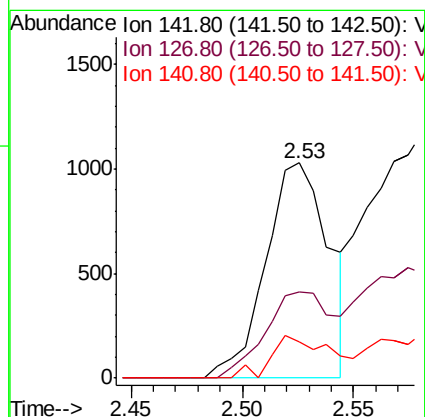
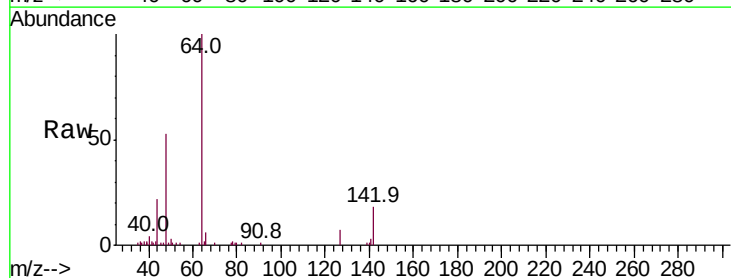
Tgt Ion: 142 Resp: 2026

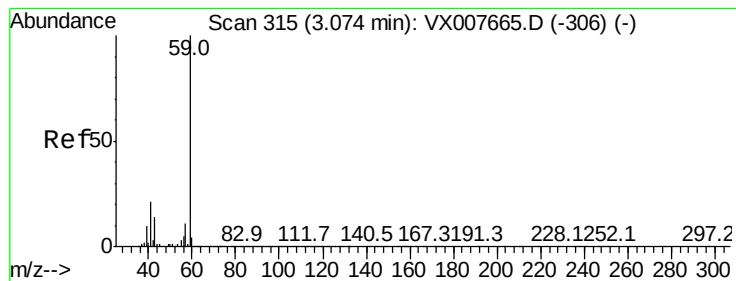
Ion Ratio Lower Upper

142 100

127 43.5 33.7 50.5

141 19.0 11.3 16.9#



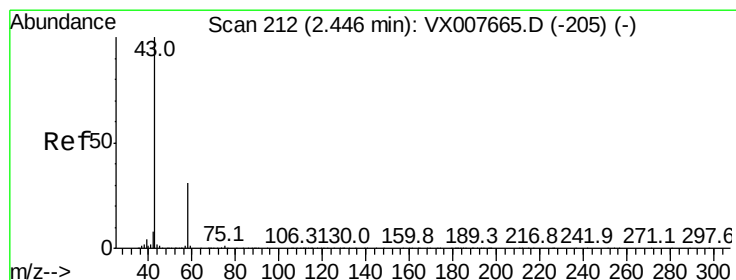
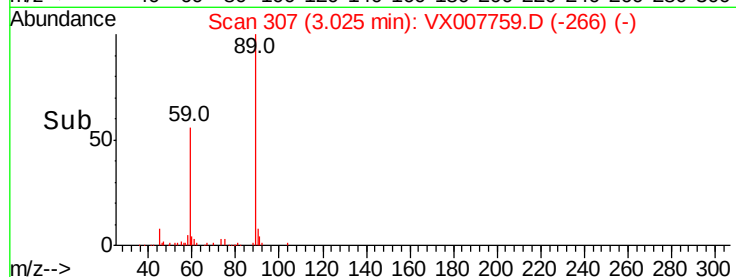
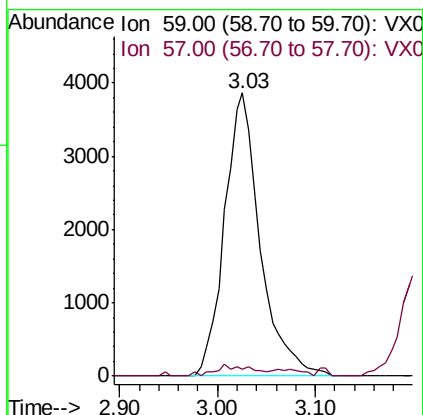
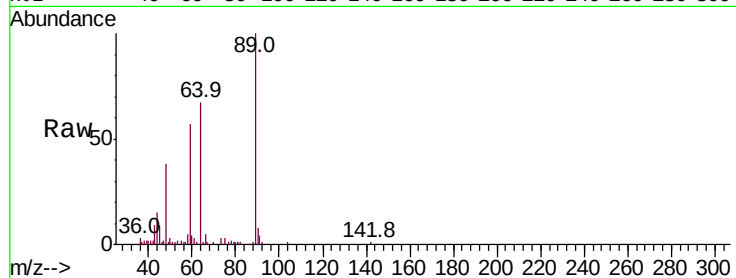


#11

Tert butyl alcohol
 Concen: 13.356 ug/l
 RT: 3.03 min Scan# 307
 Delta R.T. -0.05 min
 Lab File: VX007759.D
 Acq: 28 Feb 2019 11:59

Instrument :
 MSVOA_X
 ClientSampleId :
 M1-T1-OZ(PRE)

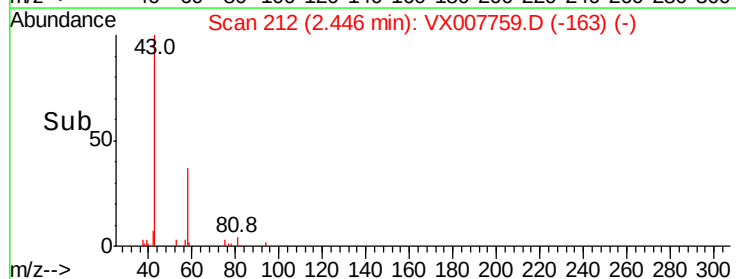
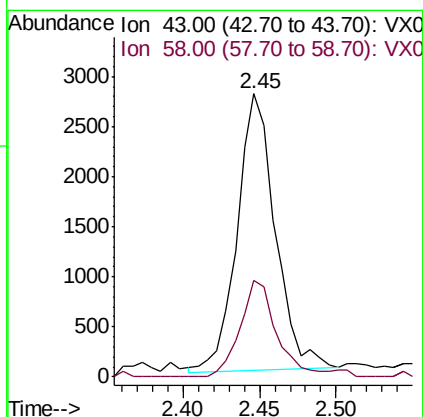
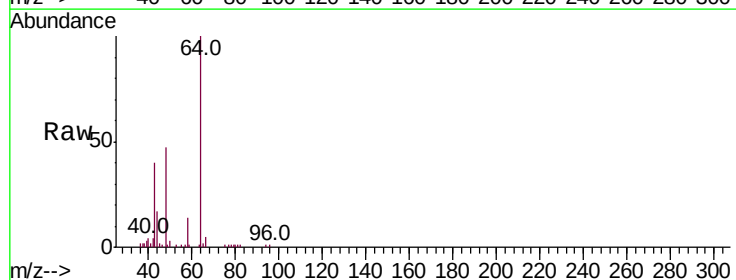
Tot Ion: 59 Resp: 9766
 Ion Ratio Lower Upper
 59 100
 57 4.0 8.1 12.1#

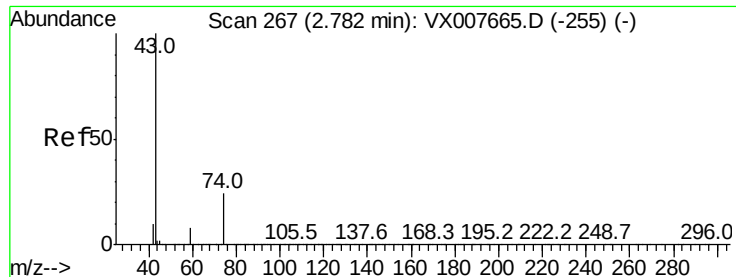


#16

Acetone
 Concen: 2.778 ug/l
 RT: 2.45 min Scan# 212
 Delta R.T. 0.00 min
 Lab File: VX007759.D
 Acq: 28 Feb 2019 11:59

Tgt Ion: 43 Resp: 4761
 Ion Ratio Lower Upper
 43 100
 58 35.2 24.9 37.3

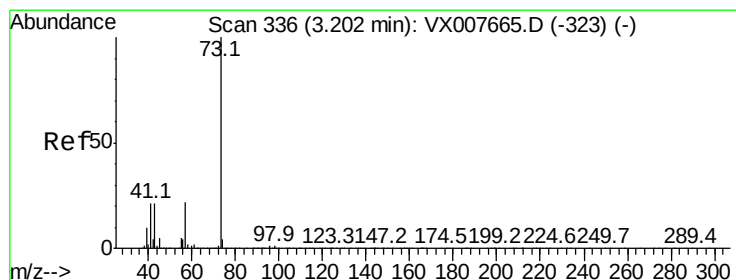
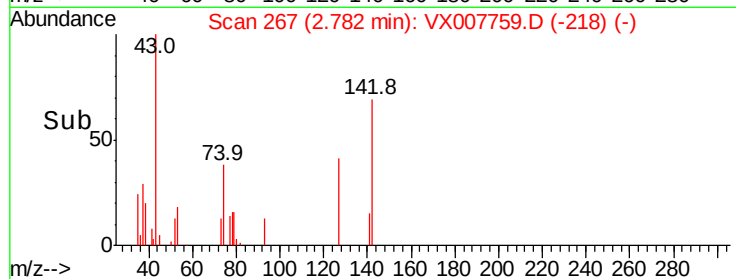
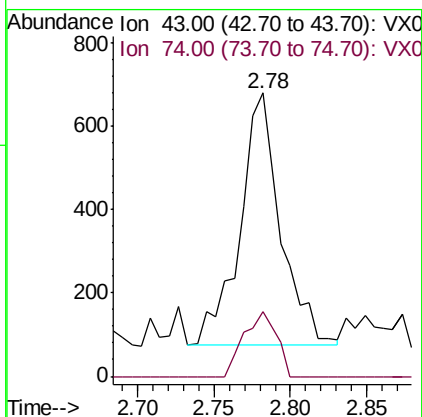
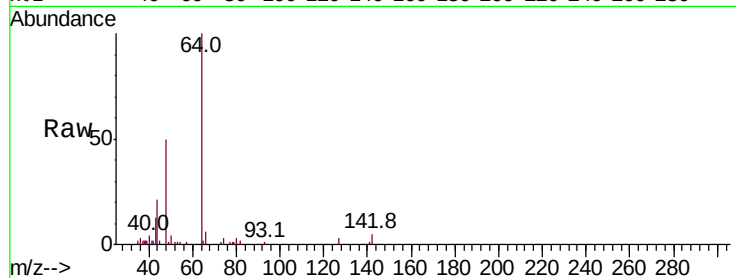




#18
Methvl Acetate
Concen: 0.297 ug/l
RT: 2.78 min Scan# 267
Delta R.T. 0.00 min
Lab File: VX007759.D
Acq: 28 Feb 2019 11:59

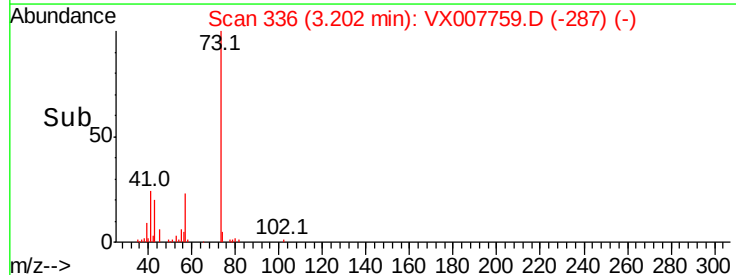
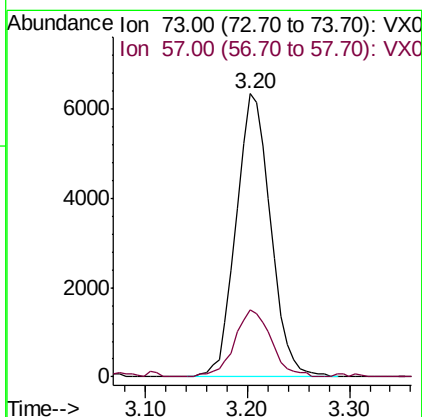
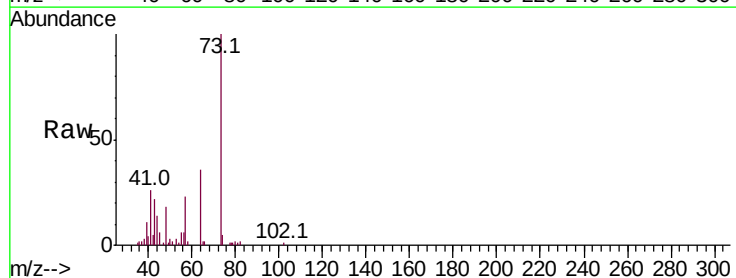
Instrument :
MSVOA_X
ClientSampleId :
M1-T1-OZ(PRE)

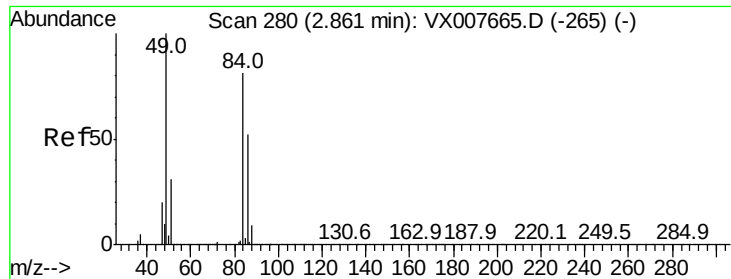
Tot Ion: 43 Resp: 1112
Ion Ratio Lower Upper
43 100
74 20.7 19.4 29.2



#19
Methyl tert-butyl Ether
Concen: 1.574 ug/l
RT: 3.20 min Scan# 336
Delta R.T. 0.00 min
Lab File: VX007759.D
Acq: 28 Feb 2019 11:59

Tgt Ion: 73 Resp: 14919
Ion Ratio Lower Upper
73 100
57 23.5 17.8 26.8

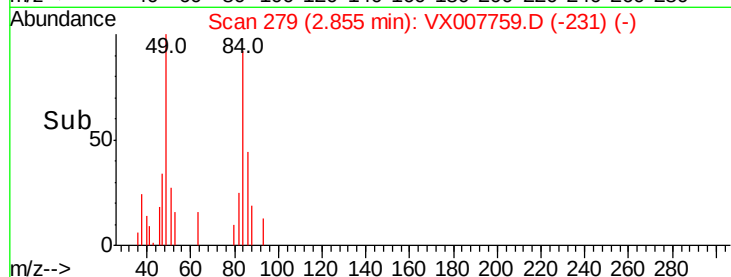
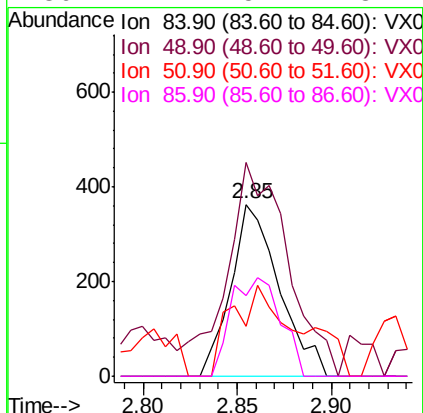
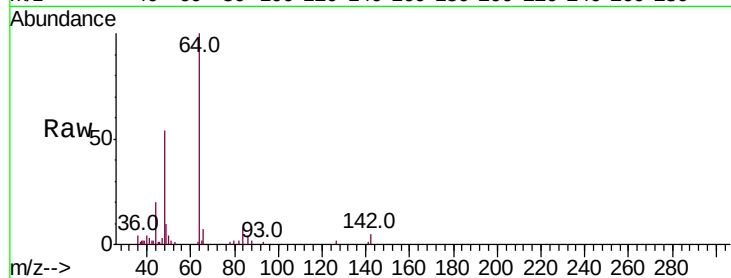




#20
Methylene Chloride
Concen: 0.204 ug/l
RT: 2.85 min Scan# 279
Delta R.T. -0.01 min
Lab File: VX007759.D
Acq: 28 Feb 2019 11:59

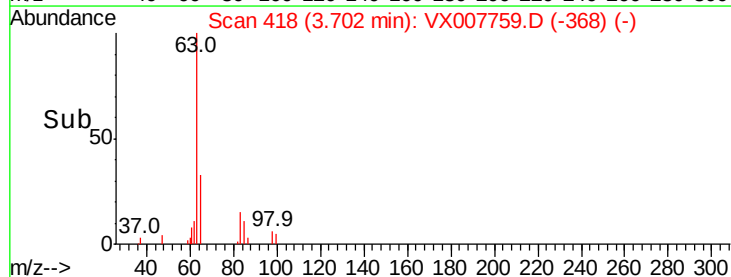
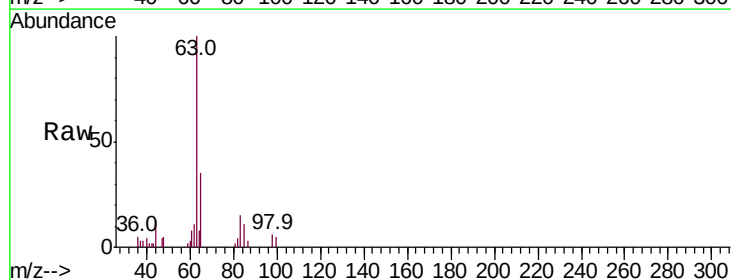
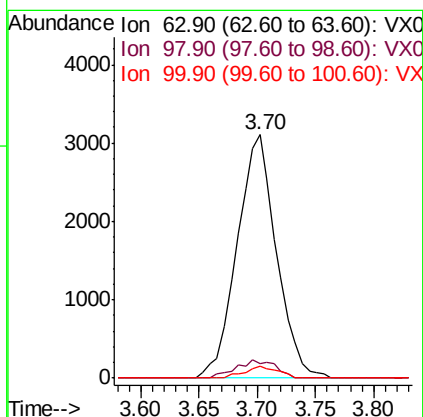
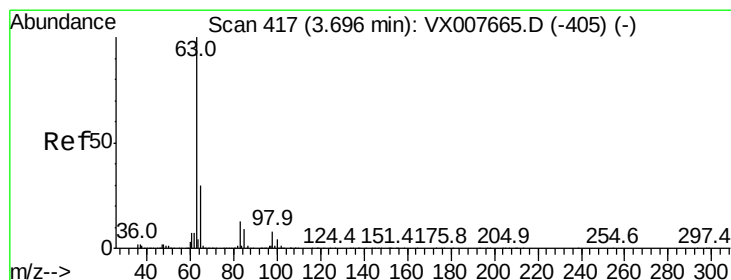
Instrument :
MSVOA_X
ClientSampleId :
M1-T1-OZ(PRE)

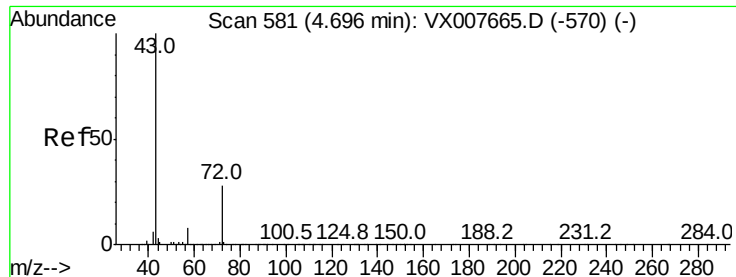
Tot Ion: 84 Resp: 645
Ion Ratio Lower Upper
84 100
49 124.2 94.8 142.2
51 29.2 29.8 44.8#
86 47.1 54.1 81.1#



#24
1,1-Dichloroethane
Concen: 1.282 ug/l
RT: 3.70 min Scan# 418
Delta R.T. 0.01 min
Lab File: VX007759.D
Acq: 28 Feb 2019 11:59

Tgt Ion: 63 Resp: 7297
Ion Ratio Lower Upper
63 100
98 5.8 3.6 10.8
100 5.1 2.5 7.4





#25

2-Butanone

Concen: 2.675 ug/l

RT: 4.70 min Scan# 581

Delta R.T. 0.00 min

Lab File: VX007759.D

Acq: 28 Feb 2019 11:59

Instrument :

MSVOA_X

ClientSampleId :

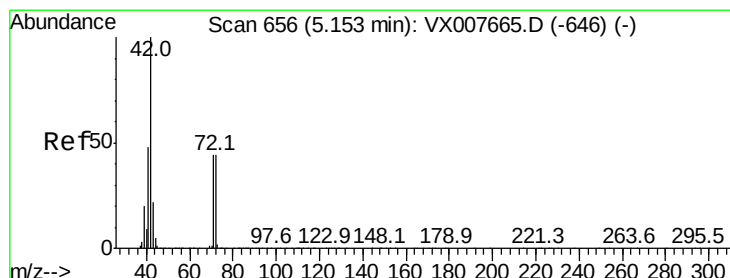
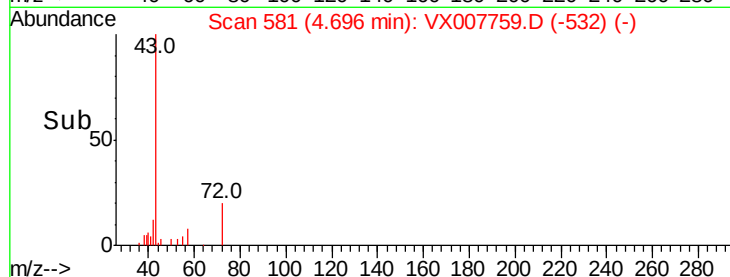
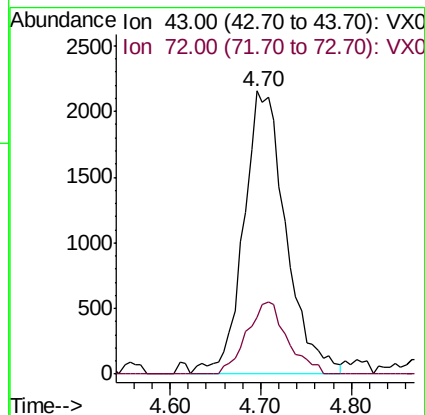
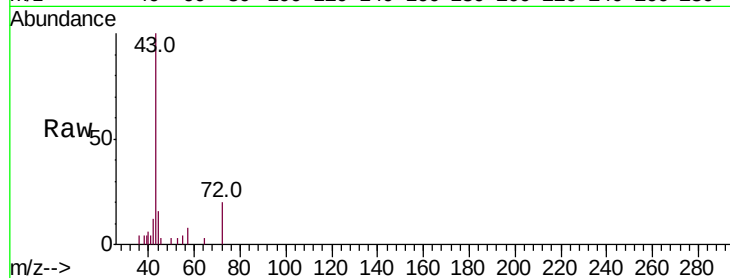
M1-T1-OZ(PRE)

Tot Ion: 43 Resp: 6983

Ion Ratio Lower Upper

43 100

72 19.9 22.2 33.2#



#29

Tetrahydrofuran

Concen: 4.706 ug/l

RT: 5.16 min Scan# 657

Delta R.T. 0.01 min

Lab File: VX007759.D

Acq: 28 Feb 2019 11:59

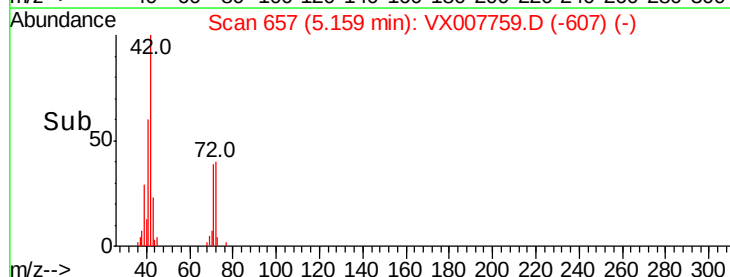
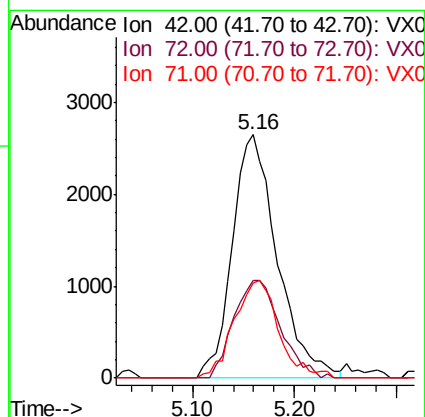
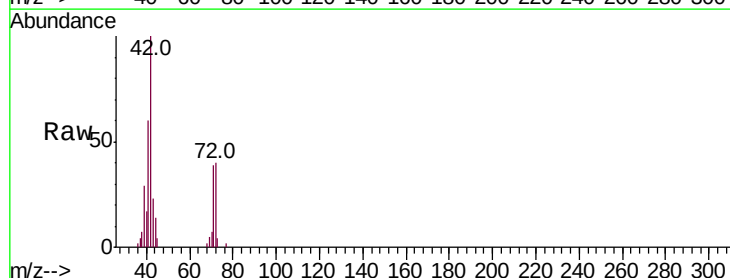
Tgt Ion: 42 Resp: 8099

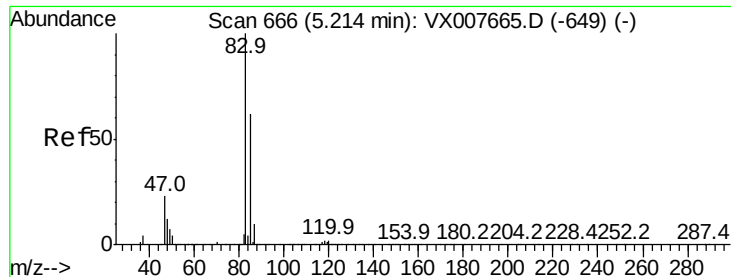
Ion Ratio Lower Upper

42 100

72 41.7 37.6 56.4

71 39.9 34.6 51.8

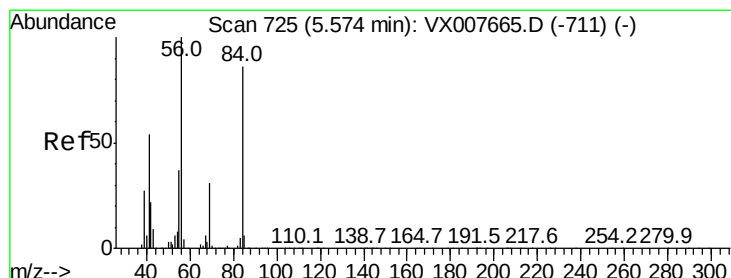
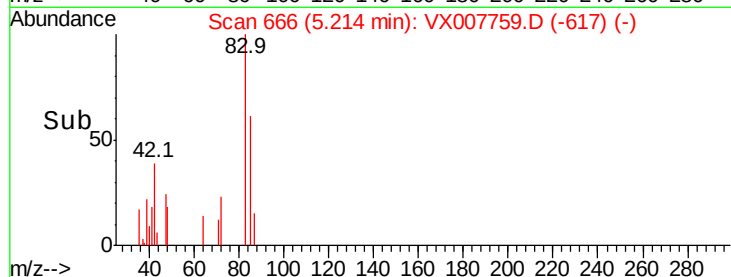
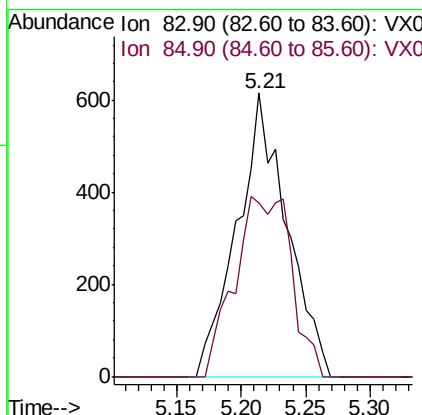
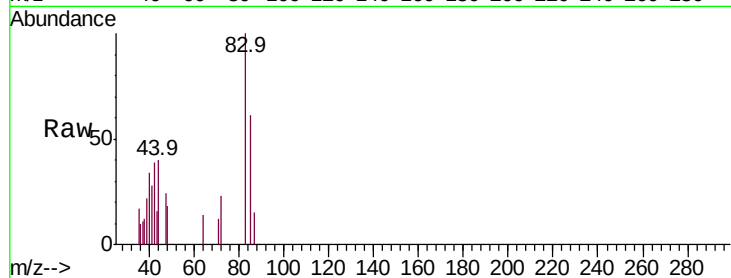




#30
Chloroform
Concen: 0.270 ug/l
RT: 5.21 min Scan# 666
Delta R.T. 0.00 min
Lab File: VX007759.D
Acq: 28 Feb 2019 11:59

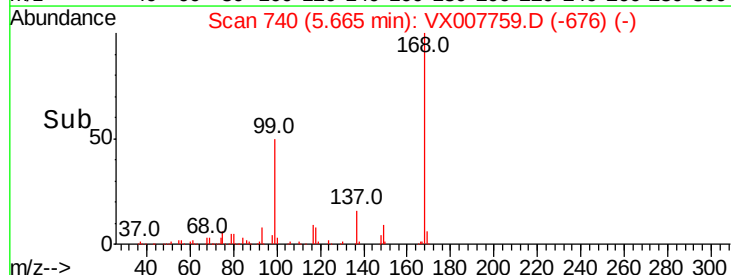
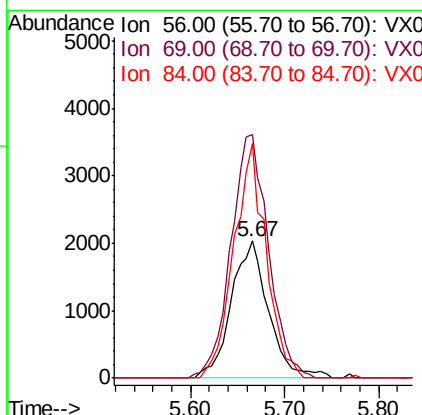
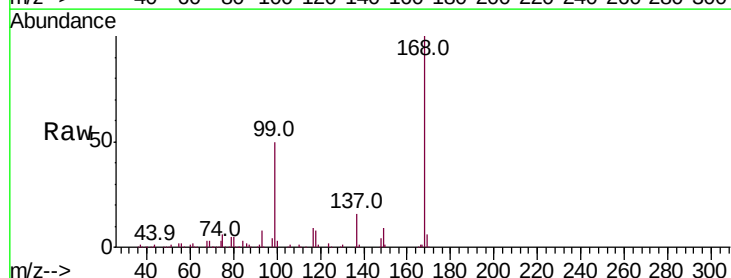
Instrument :
MSVOA_X
ClientSampleId :
M1-T1-OZ(PRE)

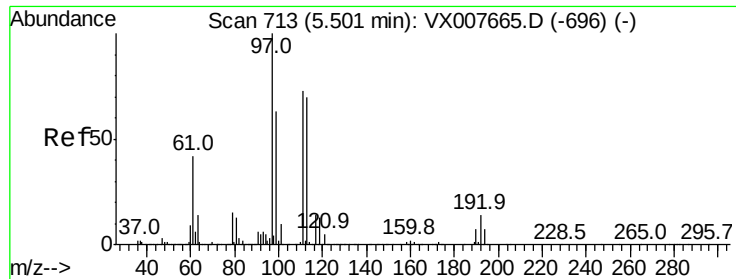
Tot Ion: 83 Resp: 1644
Ion Ratio Lower Upper
83 100
85 61.5 51.6 77.4



#31
Cyclohexane
Concen: 1.043 ug/l
RT: 5.67 min Scan# 740
Delta R.T. 0.09 min
Lab File: VX007759.D
Acq: 28 Feb 2019 11:59

Tgt Ion: 56 Resp: 5587
Ion Ratio Lower Upper
56 100
69 178.0 23.0 34.6#
84 171.2 69.8 104.6#





#32

1,1,1-Trichloroethane

Concen: 0.489 ug/l

RT: 5.50 min Scan# 713

Delta R.T. 0.00 min

Lab File: VX007759.D

Acq: 28 Feb 2019 11:59

Instrument :

MSVOA_X

ClientSampleId :

M1-T1-OZ(PRE)

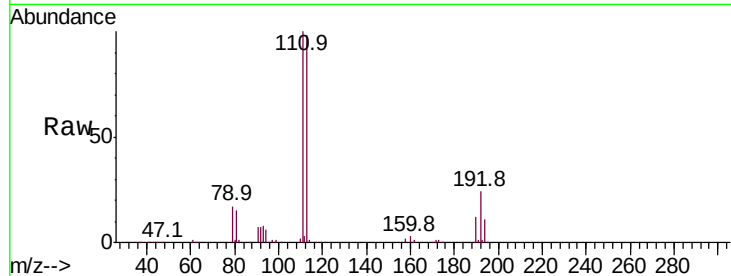
Tot Ion: 97 Resp: 2464

Ion Ratio Lower Upper

97 100

99 0.0 52.2 78.2#

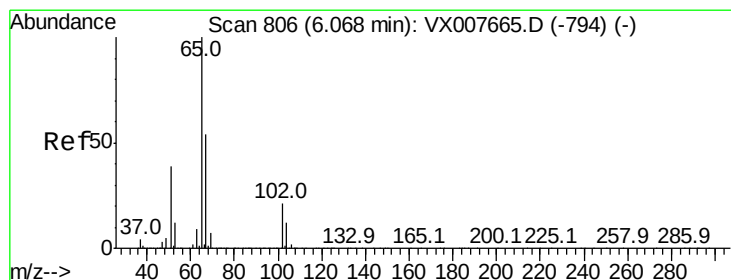
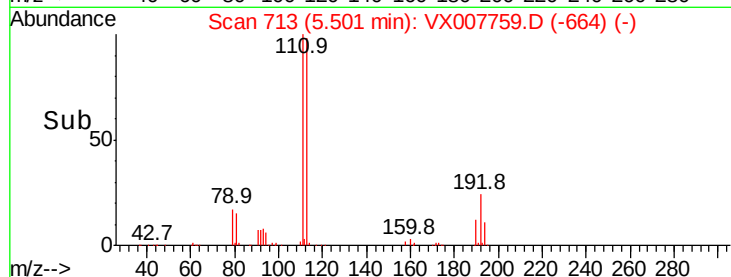
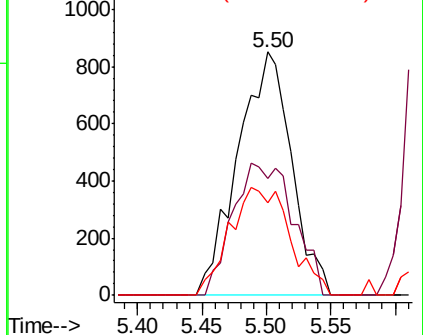
61 49.7 32.7 49.1#



Abundance Ion 96.90 (96.60 to 97.60): VX0

Ion 98.90 (98.60 to 99.60): VX0

Ion 60.90 (60.60 to 61.60): VX0



#33

1,2-Dichloroethane-d4

Concen: 49.011 ug/l

RT: 6.07 min Scan# 806

Delta R.T. 0.00 min

Lab File: VX007759.D

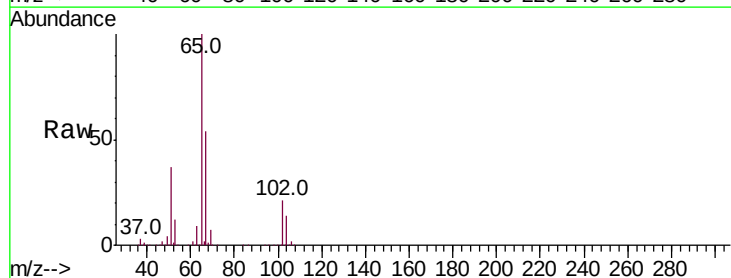
Acq: 28 Feb 2019 11:59

Tgt Ion: 65 Resp: 188885

Ion Ratio Lower Upper

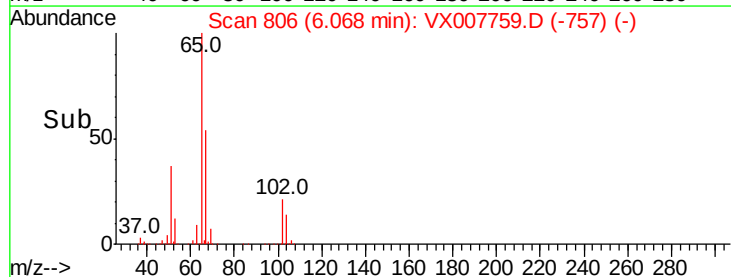
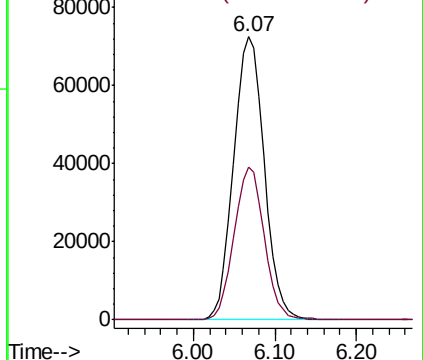
65 100

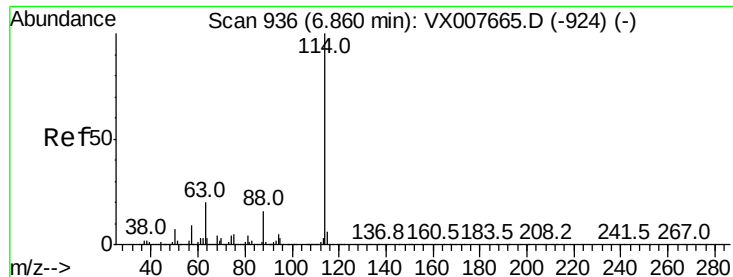
67 53.0 0.0 108.8



Abundance Ion 64.90 (64.60 to 65.60): VX0

Ion 66.90 (66.60 to 67.60): VX0

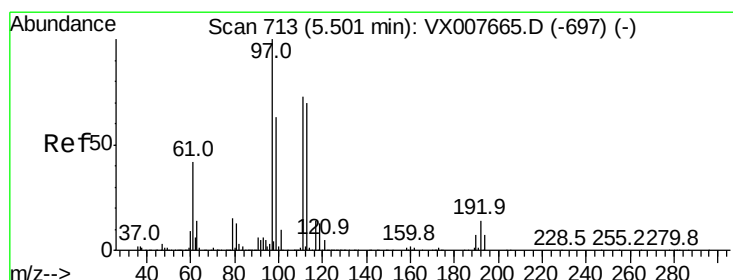
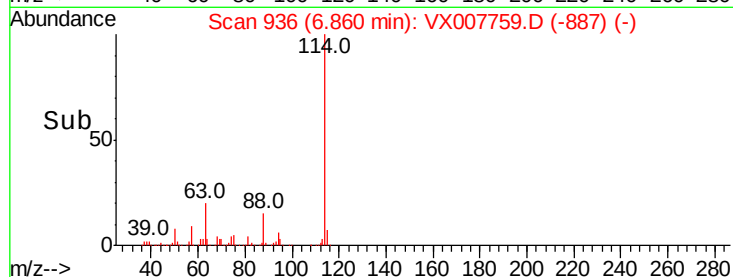
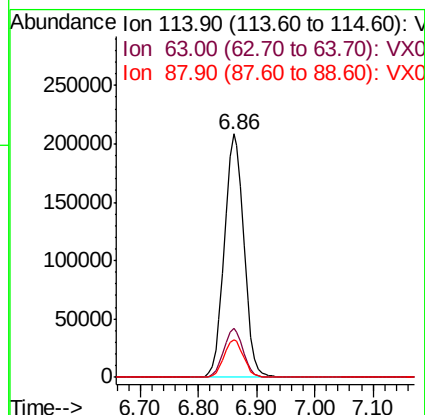
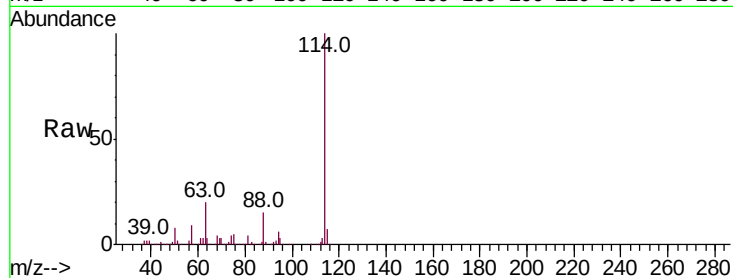




#34
 1,4-Difluorobenzene
 Concen: 50.000 ug/l
 RT: 6.86 min Scan# 936
 Delta R.T. 0.00 min
 Lab File: VX007759.D
 Acq: 28 Feb 2019 11:59

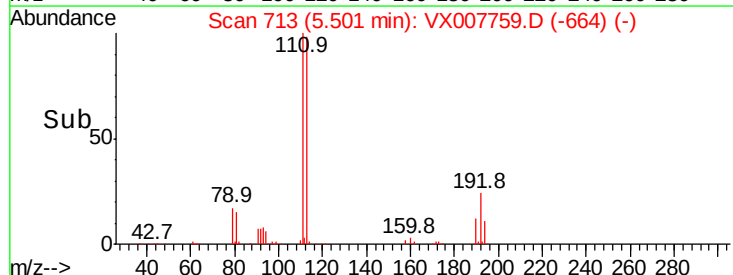
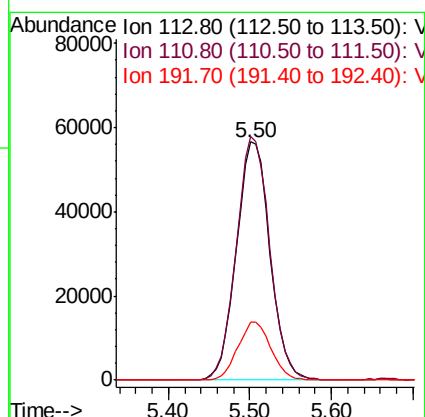
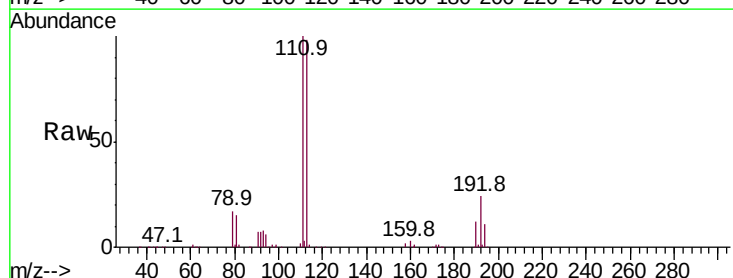
Instrument :
 MSVOA_X
 ClientSampleId :
 M1-T1-OZ(PRE)

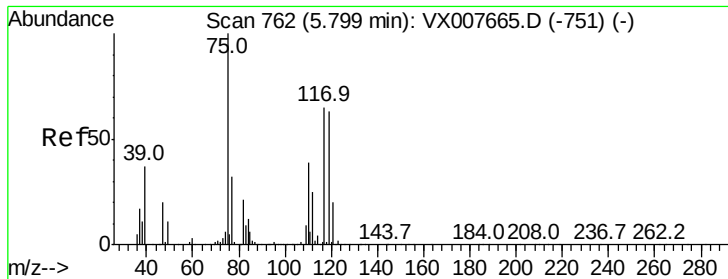
Tot Ion:114 Resp: 486490
 Ion Ratio Lower Upper
 114 100
 63 20.0 0.0 35.6
 88 15.4 0.0 29.6



#35
 Dibromofluoromethane
 Concen: 49.591 ug/l
 RT: 5.50 min Scan# 713
 Delta R.T. 0.00 min
 Lab File: VX007759.D
 Acq: 28 Feb 2019 11:59

Tgt Ion:113 Resp: 161273
 Ion Ratio Lower Upper
 113 100
 111 101.7 81.8 122.8
 192 24.1 18.5 27.7





#36

1,1-Dichloropropene

Concen: 4.696 ug/l

RT: 5.67 min Scan# 740

Delta R.T. -0.13 min

Lab File: VX007759.D

Acq: 28 Feb 2019 11:59

Instrument :

MSVOA_X

ClientSampleId :

M1-T1-OZ(PRE)

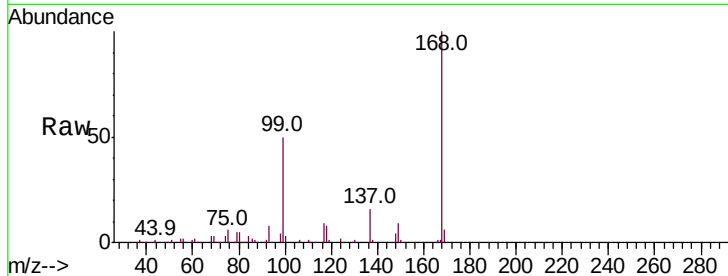
Tot Ion: 75 Resp: 20537

Ion Ratio Lower Upper

75 100

110 9.3 20.0 59.9#

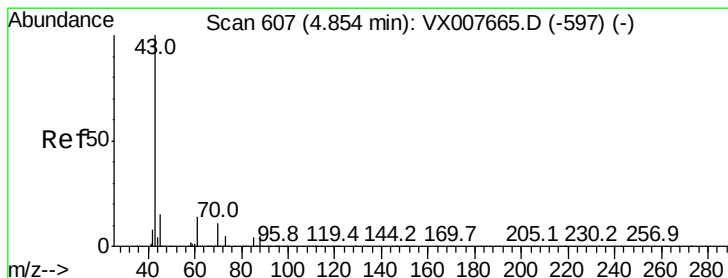
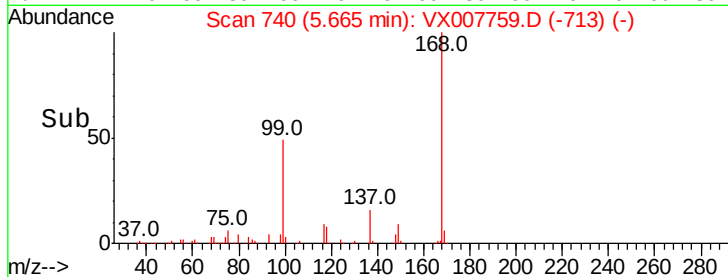
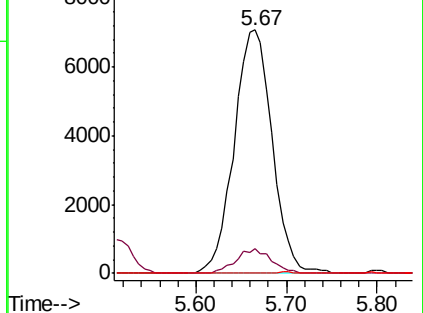
77 0.0 24.7 37.1#



Abundance Ion 74.90 (74.60 to 75.60): VX0

Ion 109.90 (109.60 to 110.60): VX0

Ion 76.90 (76.60 to 77.60): VX0



#37

Ethyl Acetate

Concen: 1.437 ug/l

RT: 4.70 min Scan# 581

Delta R.T. -0.16 min

Lab File: VX007759.D

Acq: 28 Feb 2019 11:59

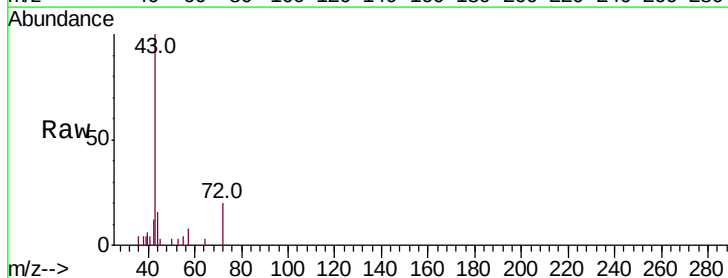
Tgt Ion: 43 Resp: 6983

Ion Ratio Lower Upper

43 100

61 0.0 11.3 16.9#

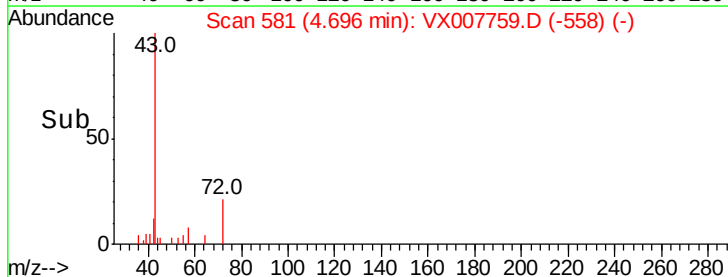
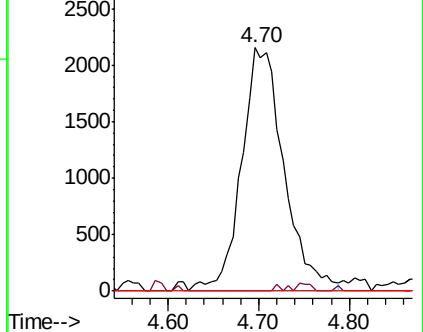
70 0.0 8.6 13.0#

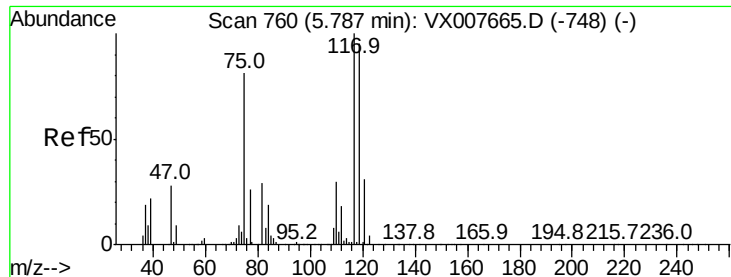


Abundance Ion 43.00 (42.70 to 43.70): VX0

Ion 60.90 (60.60 to 61.60): VX0

Ion 70.00 (69.70 to 70.70): VX0





#38

Carbon Tetrachloride

Concen: 6.289 ug/l

RT: 5.66 min Scan# 739

Delta R.T. -0.13 min

Lab File: VX007759.D

Acq: 28 Feb 2019 11:59

Instrument :

MSVOA_X

ClientSampled :

M1-T1-OZ(PRE)

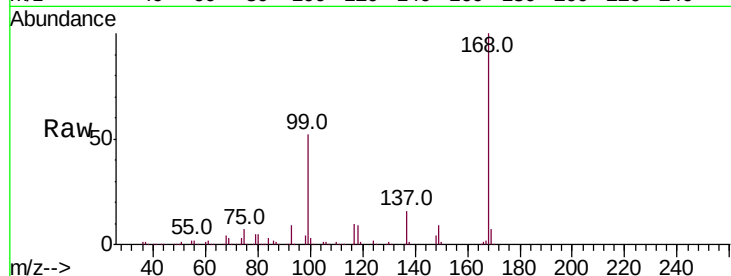
Tot Ion:117 Resp: 27629

Ion Ratio Lower Upper

117 100

119 6.3 75.3 112.9#

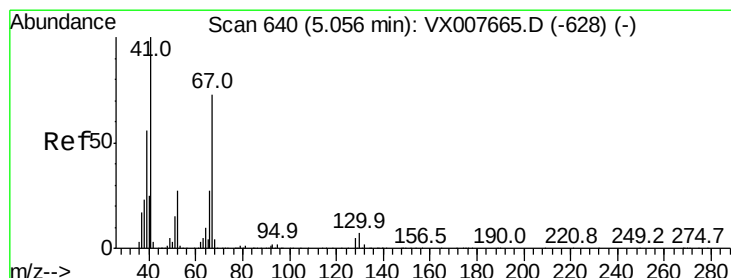
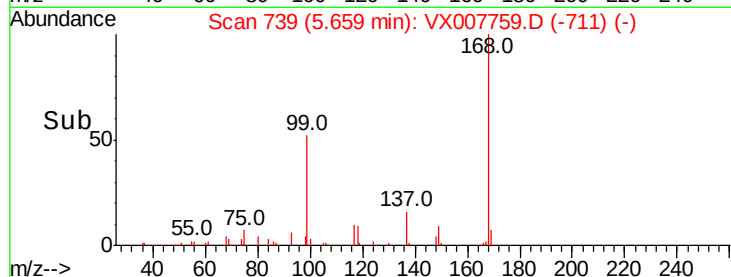
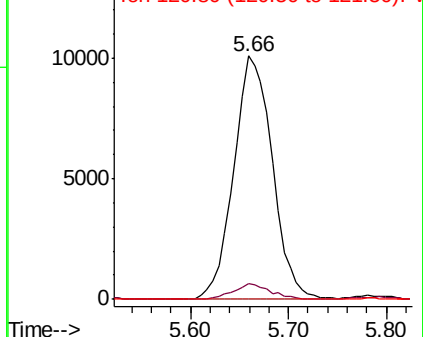
121 0.0 25.0 37.4#



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



#41

Methacrylonitrile

Concen: 2.009 ug/l

RT: 5.16 min Scan# 657

Delta R.T. 0.10 min

Lab File: VX007759.D

Acq: 28 Feb 2019 11:59

Tgt Ion: 41 Resp: 5211

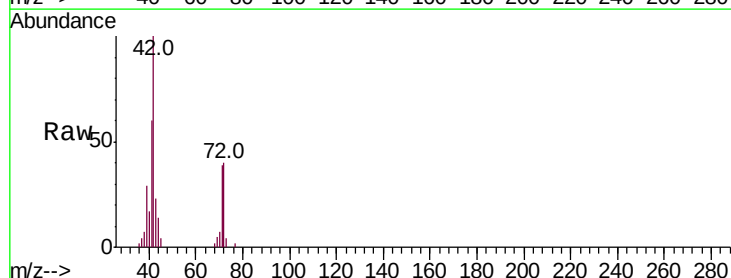
Ion Ratio Lower Upper

41 100

39 51.5 44.5 66.7

67 0.0 60.4 90.6#

52 0.0 24.1 36.1#

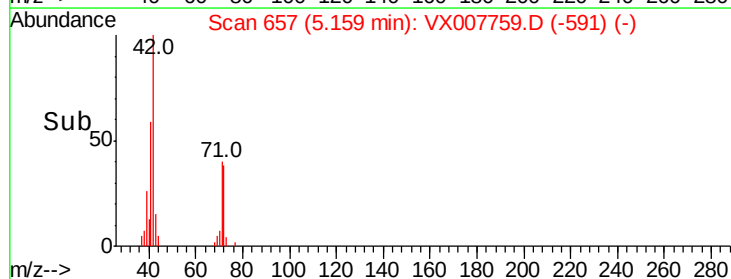
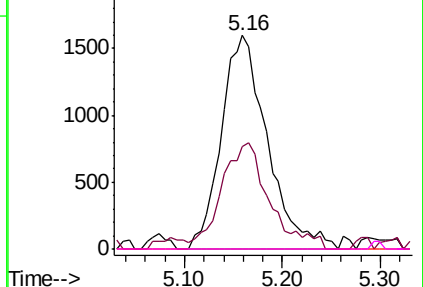


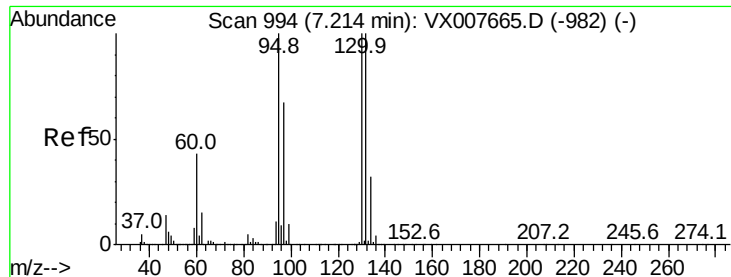
Abundance Ion 41.00 (40.70 to 41.70): VX0

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





#44

Trichloroethene

Concen: 7.819 ug/l

RT: 7.21 min Scan# 994

Delta R.T. 0.00 min

Lab File: VX007759.D

Acq: 28 Feb 2019 11:59

Instrument :

MSVOA_X

ClientSampleId :

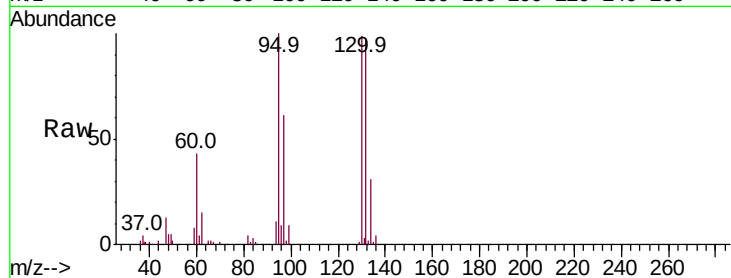
M1-T1-OZ(PRE)

Tot Ion:130 Resp: 29040

Ion Ratio Lower Upper

130 100

95 101.3 0.0 180.0



Abundance Ion 129.80 (129.50 to 130.50): V

Ion 94.90 (94.60 to 95.60): VX0

7.21

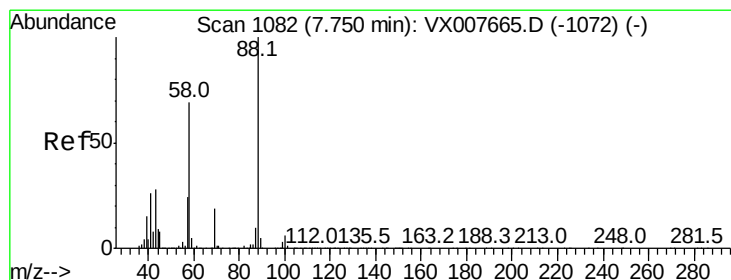
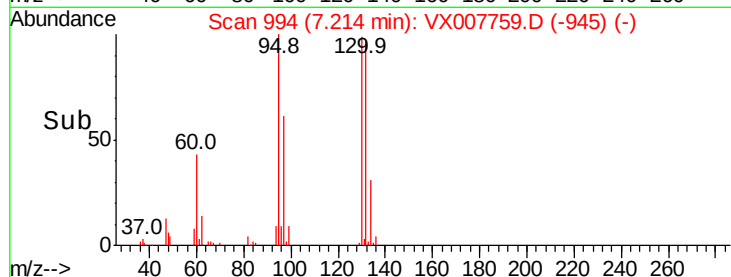
15000

10000

5000

0

Time--> 7.10 7.15 7.20 7.25 7.30



#49

1,4-Dioxane

Concen: 0.295 ug/l

RT: 7.76 min Scan# 1083

Delta R.T. 0.01 min

Lab File: VX007759.D

Acq: 28 Feb 2019 11:59

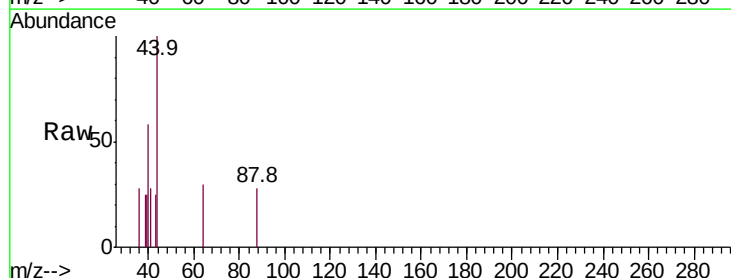
Tgt Ion: 88 Resp: 25

Ion Ratio Lower Upper

88 100

43 88.0 24.2 36.4#

58 0.0 53.0 79.4#



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

100

80

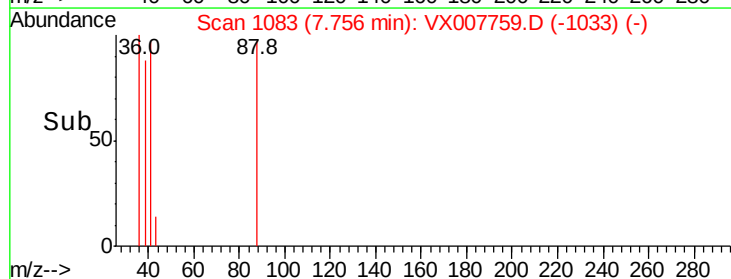
60

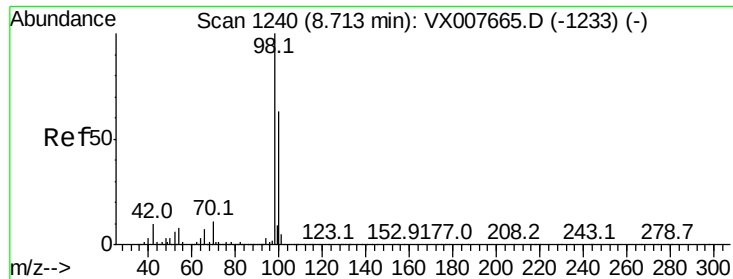
40

20

0

Time--> 7.74 7.75 7.76 7.77





#50

Toluene-d8

Concen: 48.091 ug/l

RT: 8.71 min Scan# 1240

Delta R.T. 0.00 min

Lab File: VX007759.D

Acq: 28 Feb 2019 11:59

Instrument :

MSVOA_X

ClientSampleId :

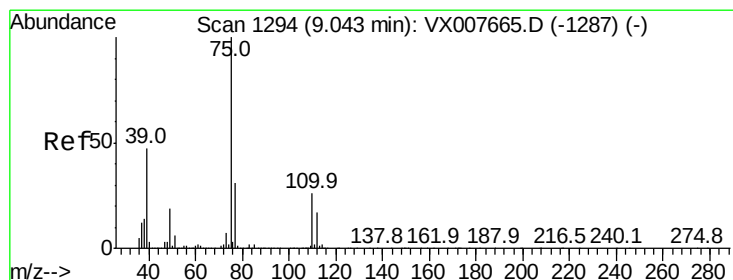
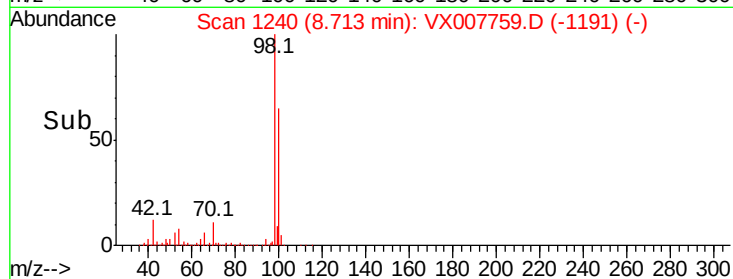
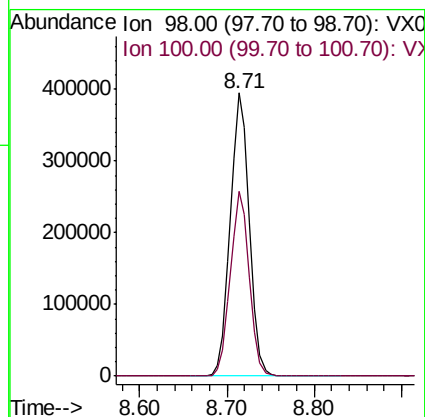
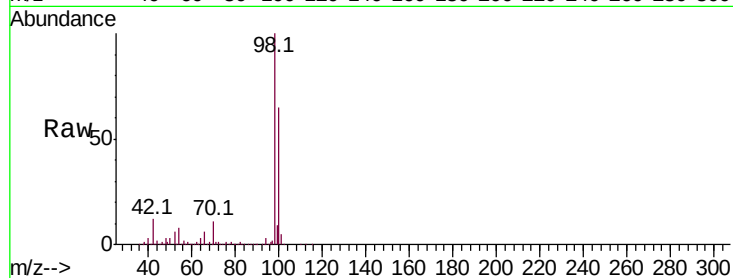
M1-T1-OZ(PRE)

Tot Ion: 98 Resp: 598737

Ion Ratio Lower Upper

98 100

100 64.6 51.6 77.4



#53

t-1,3-Dichloropropene

Concen: 2.806 ug/l

RT: 9.04 min Scan# 1294

Delta R.T. 0.00 min

Lab File: VX007759.D

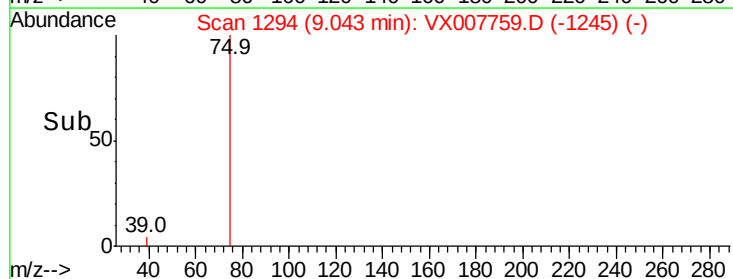
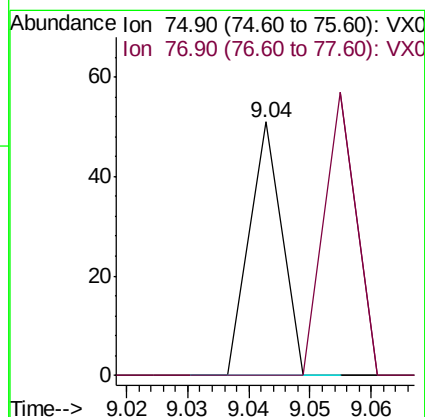
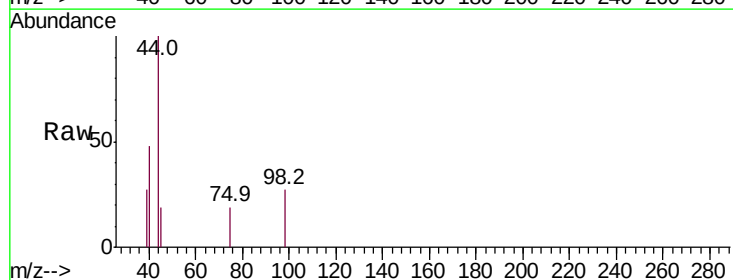
Acq: 28 Feb 2019 11:59

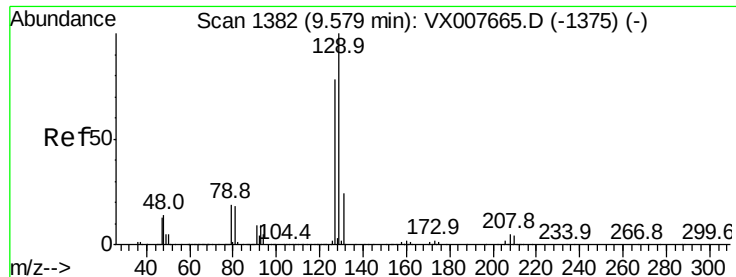
Tgt Ion: 75 Resp: 19

Ion Ratio Lower Upper

75 100

77 0.0 25.2 37.8#





#60

Dibromochloromethane

Concen: 3.604 ug/l

RT: 9.34 min Scan# 1342

Delta R.T. -0.24 min

Lab File: VX007759.D

Acq: 28 Feb 2019 11:59

Instrument :

MSVOA_X

ClientSampleId :

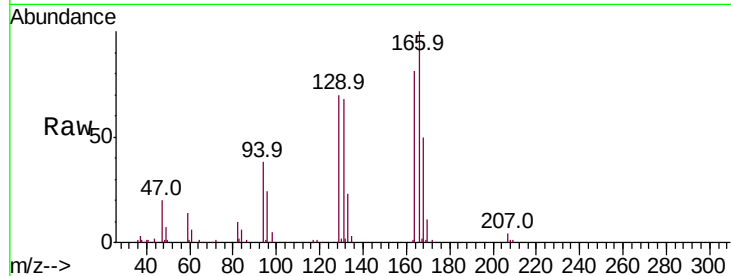
M1-T1-OZ(PRE)

Tot Ion:129 Resp: 12311

Ion Ratio Lower Upper

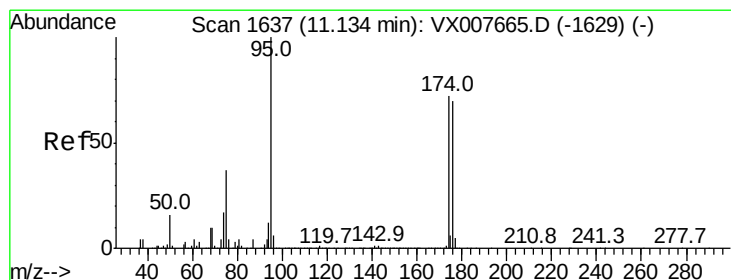
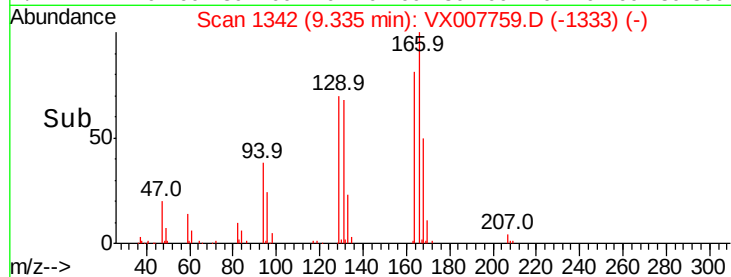
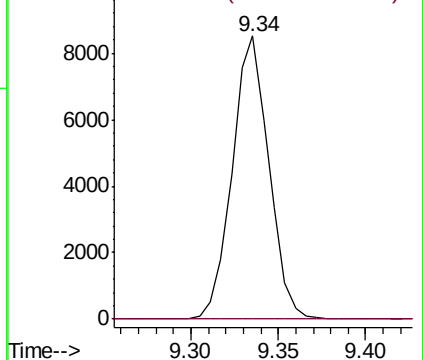
129 100

127 0.0 37.8 113.4#



Abundance Ion 128.80 (128.50 to 129.50): V

Ion 126.80 (126.50 to 127.50): V



#62

4-Bromofluorobenzene

Concen: 46.912 ug/l

RT: 11.13 min Scan# 1637

Delta R.T. 0.00 min

Lab File: VX007759.D

Acq: 28 Feb 2019 11:59

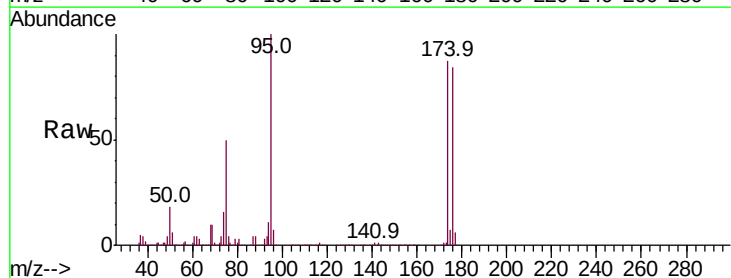
Tgt Ion: 95 Resp: 214370

Ion Ratio Lower Upper

95 100

174 92.1 0.0 189.2

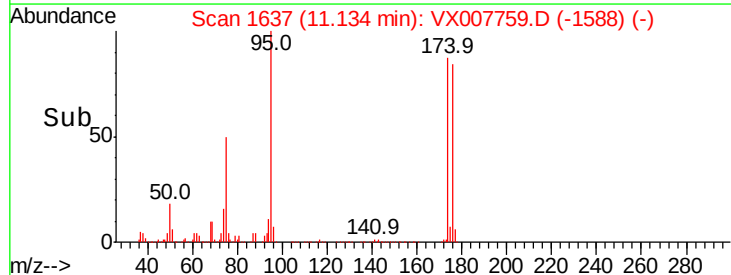
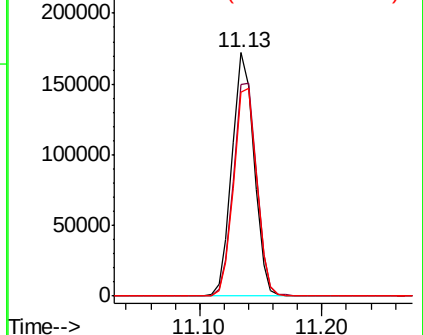
176 89.0 0.0 186.2

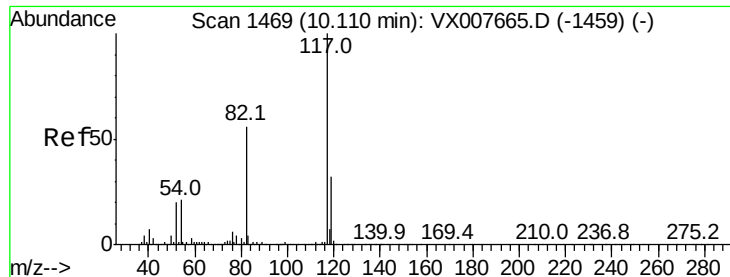


Abundance Ion 94.90 (94.60 to 95.60): VX0

Ion 173.80 (173.50 to 174.50): V

Ion 175.80 (175.50 to 176.50): V

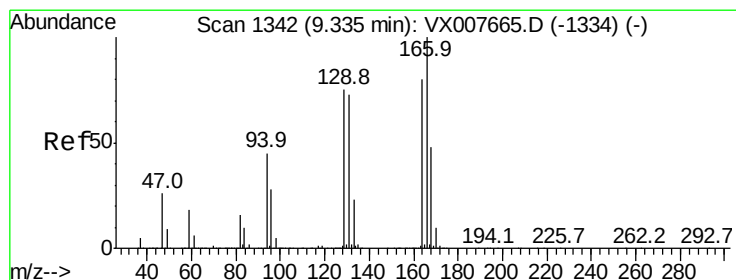
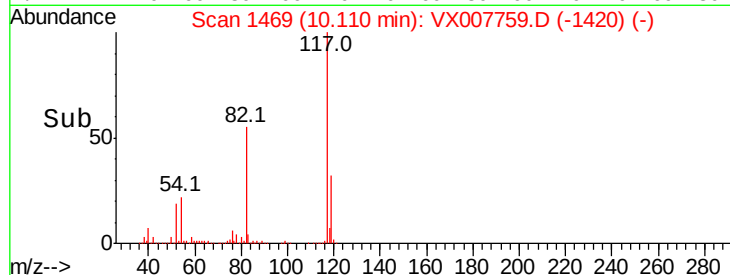
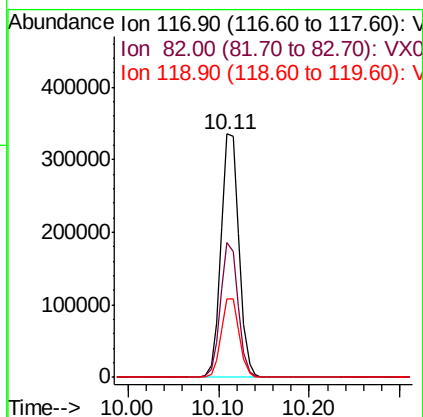
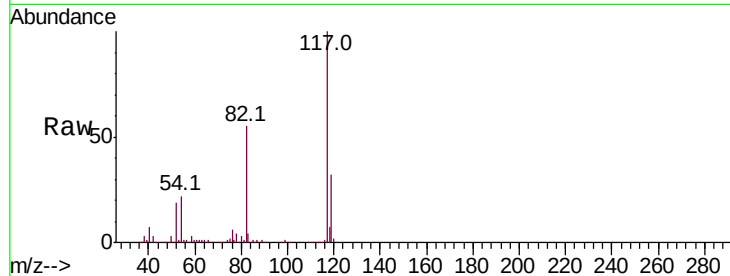




#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 10.11 min Scan# 1469
Delta R.T. 0.00 min
Lab File: VX007759.D
Acq: 28 Feb 2019 11:59

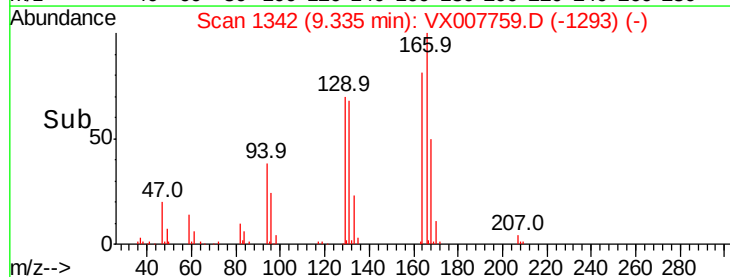
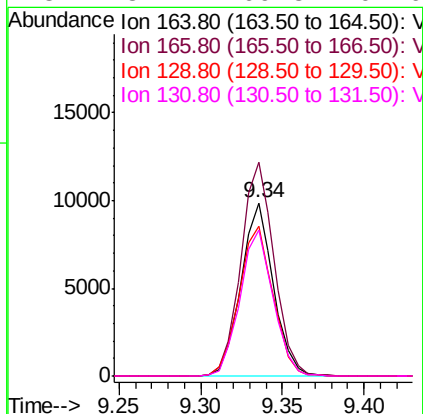
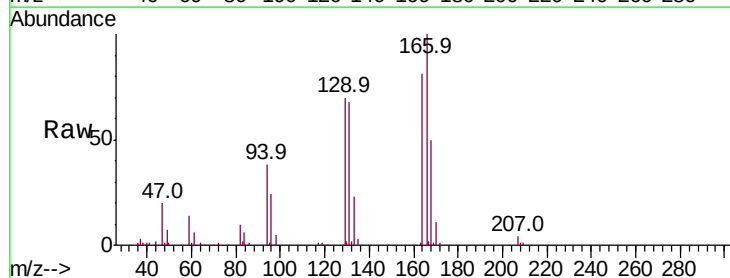
Instrument :
MSVOA_X
ClientSampleId :
M1-T1-OZ(PRE)

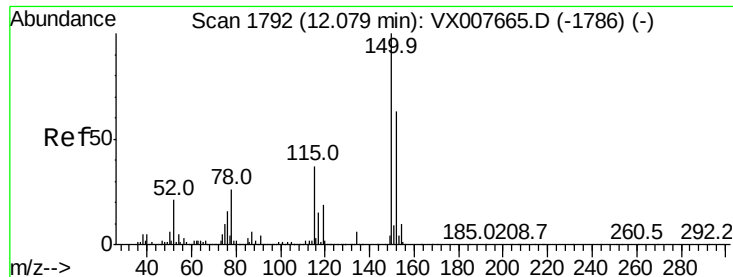
Tot Ion:117 Resp: 464092
Ion Ratio Lower Upper
117 100
82 55.2 42.1 63.1
119 32.2 26.5 39.7



#64
Tetrachloroethene
Concen: 3.625 ug/l
RT: 9.34 min Scan# 1342
Delta R.T. -0.00 min
Lab File: VX007759.D
Acq: 28 Feb 2019 11:59

Tgt Ion:164 Resp: 13659
Ion Ratio Lower Upper
164 100
166 123.5 101.0 151.4
129 86.4 70.5 105.7
131 84.1 69.8 104.6





#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

RT: 12.08 min Scan# 1792

Delta R.T. 0.00 min

Lab File: VX007759.D

Acq: 28 Feb 2019 11:59

Instrument :

MSVOA_X

ClientSampleId :

M1-T1-OZ(PRE)

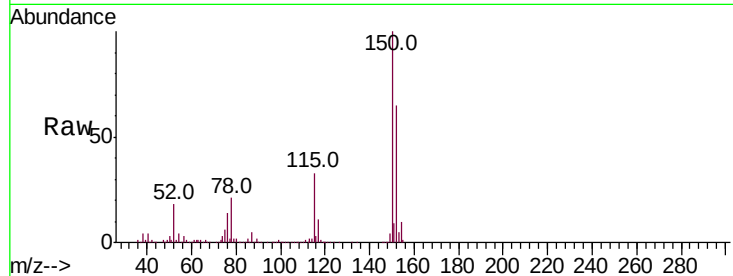
Tot Ion:152 Resp: 222351

Ion Ratio Lower Upper

152 100

115 54.5 38.0 114.0

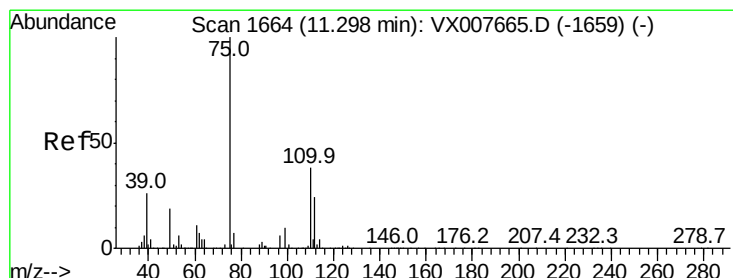
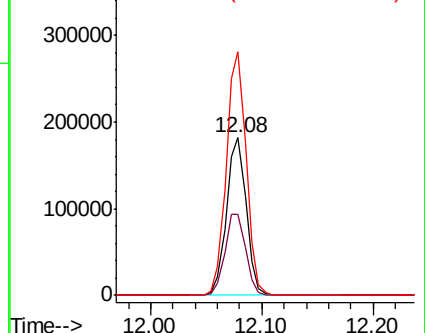
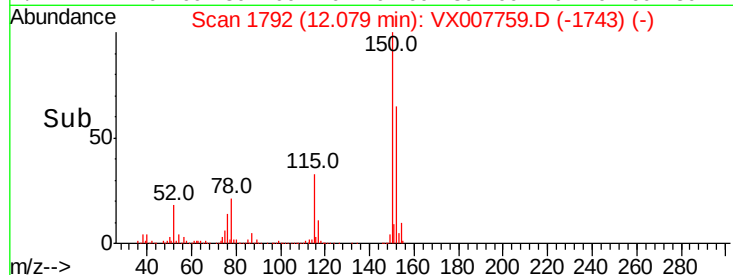
150 155.9 0.0 346.4



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: 22.105 ug/l

RT: 11.13 min Scan# 1637

Delta R.T. -0.16 min

Lab File: VX007759.D

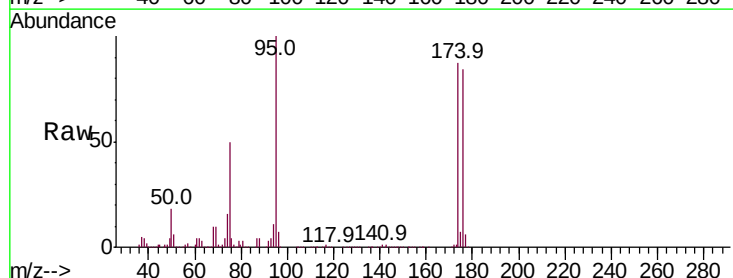
Acq: 28 Feb 2019 11:59

Tgt Ion: 75 Resp: 104768

Ion Ratio Lower Upper

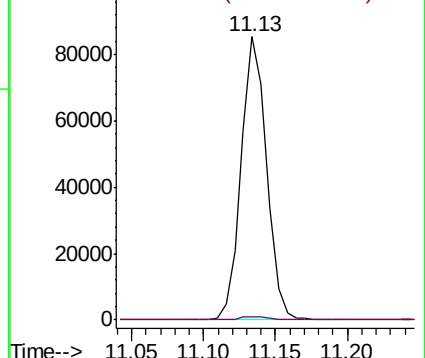
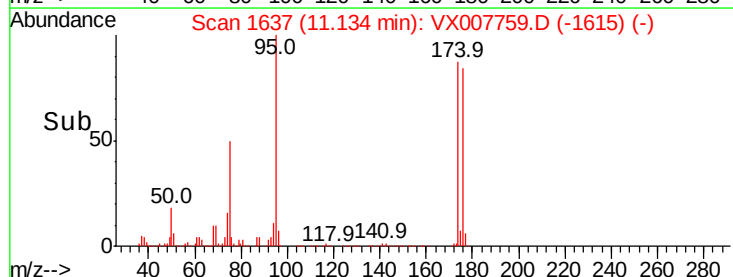
75 100

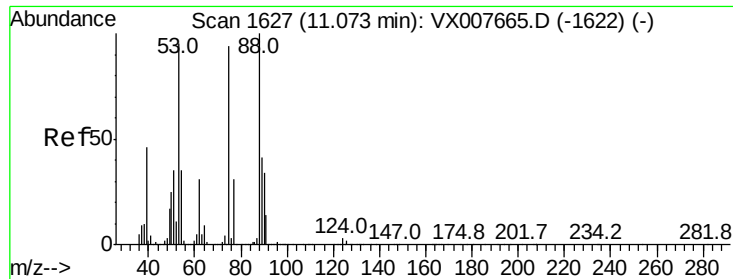
77 1.2 23.0 69.0#



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: 58.680 ug/l

RT: 11.13 min Scan# 1637

Delta R.T. 0.06 min

Lab File: VX007759.D

Acq: 28 Feb 2019 11:59

Instrument :

MSVOA_X

ClientSampleId :

M1-T1-OZ(PRE)

Tot Ion: 75 Resp: 104768

Ion Ratio Lower Upper

75 100

53 0.0 81.0 121.6#

89 0.0 41.4 62.0#

