

Data Path : Z:\VOASRV\HPCHEM1\MSVOA X\DATA\WX030519\
 Data File : VX007835.D
 Acq On : 05 Mar 2019 14:21
 Operator : JC/SP
 Sample : K1659-05
 Misc : 5.0mL/MSVOA X/WATER
 ALS Vial : 10 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :
 M1-T5-OZ(PRE)

Quant Time: Mar 06 00:09:50 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	313879	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	6.86	114	487671	50.00	ug/l	0.00
63) Chlorobenzene-d5	10.11	117	459450	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.08	152	219012	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	176440	45.38	ug/l	0.00
Spiked Amount			Recovery	=	90.76%	
35) Dibromofluoromethane	5.50	113	161436	49.52	ug/l	0.00
Spiked Amount			Recovery	=	99.04%	
50) Toluene-d8	8.71	98	590067	47.28	ug/l	0.00
Spiked Amount			Recovery	=	94.56%	
62) 4-Bromofluorobenzene	11.13	95	213145	46.53	ug/l	0.00
Spiked Amount			Recovery	=	93.06%	

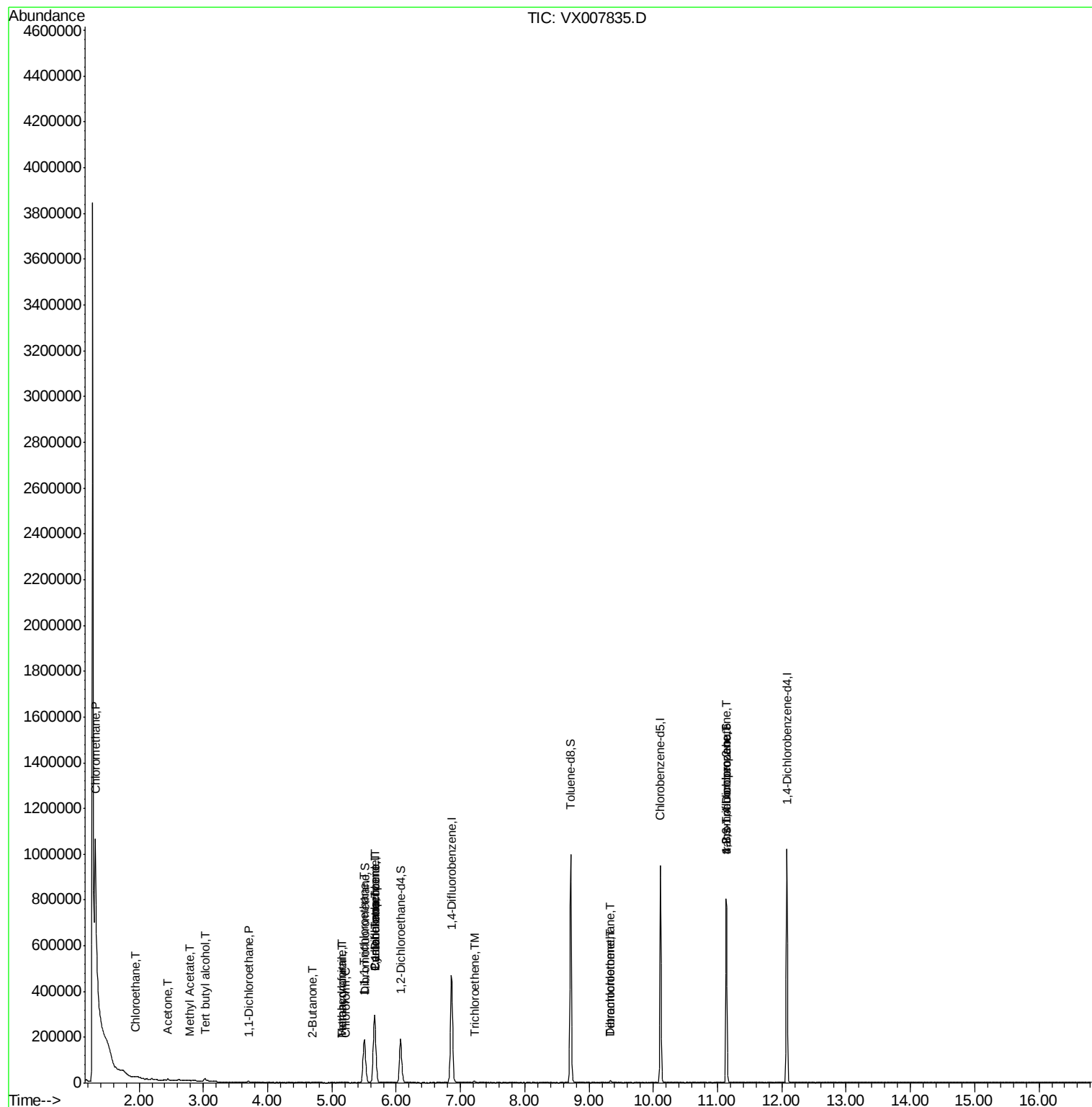
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
3) Chloromethane	1.32	50	41174	12.850	ug/l #	44
5) Bromomethane	1.65	94	476	Below Cal	#	65
6) Chloroethane	1.94	64	6164	2.935	ug/l #	44
11) Tert butyl alcohol	3.03	59	7368	9.988	ug/l #	74
16) Acetone	2.45	43	5363	3.102	ug/l	98
18) Methyl Acetate	2.78	43	2049	0.543	ug/l	92
24) 1,1-Dichloroethane	3.70	63	5612	0.977	ug/l	99
25) 2-Butanone	4.70	43	1873	0.711	ug/l	90
29) Tetrahydrofuran	5.16	42	2052	1.182	ug/l #	74
30) Chloroform	5.21	83	1595	0.259	ug/l	95
31) Cyclohexane	5.67	56	4787	0.886	ug/l #	1
32) 1,1,1-Trichloroethane	5.49	97	2174	0.427	ug/l #	46
36) 1,1-Dichloropropene	5.67	75	19755	4.506	ug/l #	48
38) Carbon Tetrachloride	5.67	117	27201	6.176	ug/l #	18
41) Methacrylonitrile	5.16	41	1244	0.478	ug/l #	41
44) Trichloroethene	7.21	130	2870	0.771	ug/l	97
60) Dibromochloromethane	9.34	129	1752	0.512	ug/l #	12
64) Tetrachloroethene	9.33	164	1818	0.487	ug/l	95
76) 1,2,3-Trichloropropane	11.13	75	98238	21.043	ug/l #	32
81) trans-1,4-Dichloro-2-buten	11.13	75	98238	56.006	ug/l #	9

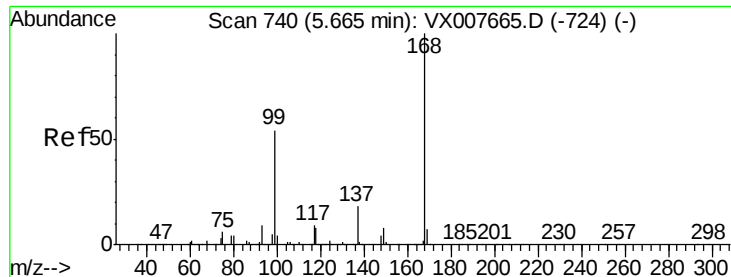
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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Quant Title : SW846 8260
QLast Update : Tue Feb 26 01:53:13 2019
Response via : Initial Calibration





#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 5.67 min Scan# 740

Delta R.T. 0.00 min

Lab File: VX007835.D

Acq: 05 Mar 2019 14:21

Instrument :

MSVOA_X

ClientSampleId :

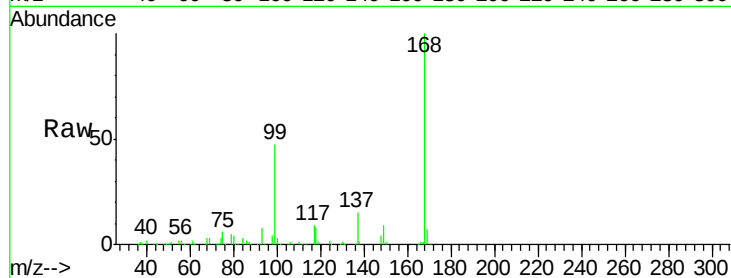
M1-T5-OZ(PRE)

Tot Ion:168 Resp: 313879

Ion Ratio Lower Upper

168 100

99 47.1 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

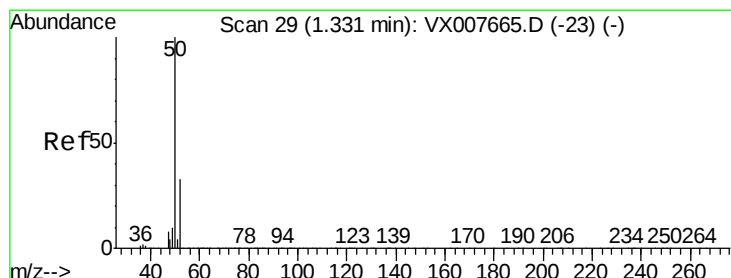
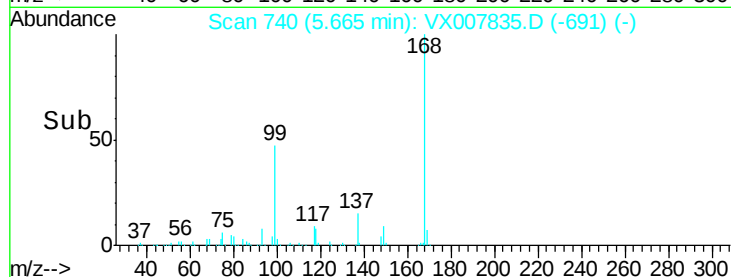
60000

40000

20000

0

Time--> 5.50 5.60 5.70 5.80



#3

Chloromethane

Concen: 12.850 ug/l

RT: 1.32 min Scan# 27

Delta R.T. -0.01 min

Lab File: VX007835.D

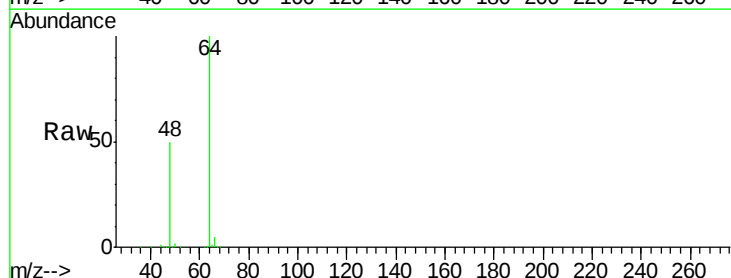
Acq: 05 Mar 2019 14:21

Tgt Ion: 50 Resp: 41174

Ion Ratio Lower Upper

50 100

52 1.2 26.1 39.1#



Abundance Ion 49.90 (49.60 to 50.60): VX0

Ion 51.90 (51.60 to 52.60): VX0

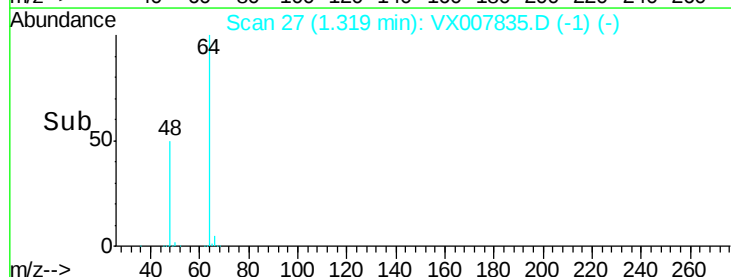
60000

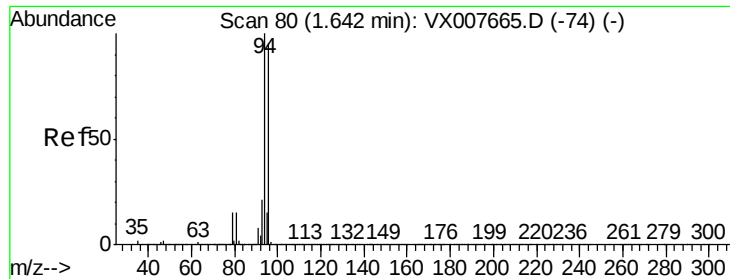
40000

20000

0

Time--> 1.25 1.30 1.35 1.40 1.45





#5

Bromomethane

Concen: Below Cal

RT: 1.65 min Scan# 81

Delta R.T. 0.01 min

Lab File: VX007835.D

Acq: 05 Mar 2019 14:21

Instrument :

MSVOA_X

ClientSampleId :

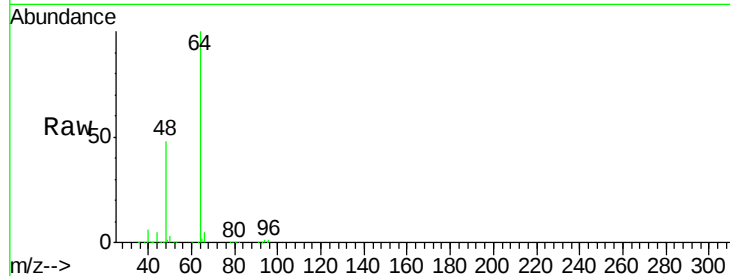
M1-T5-OZ(PRE)

Tot Ion: 94 Resp: 476

Ion Ratio Lower Upper

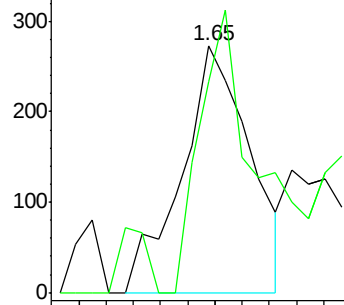
94 100

96 59.0 73.9 110.9#

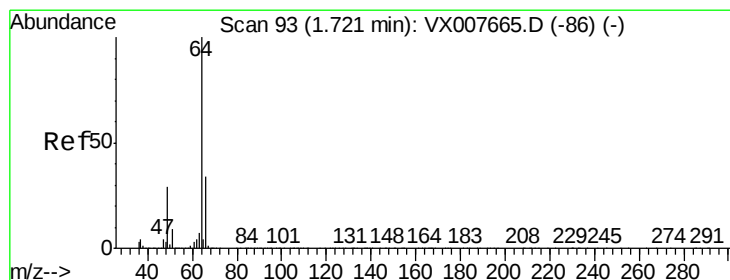
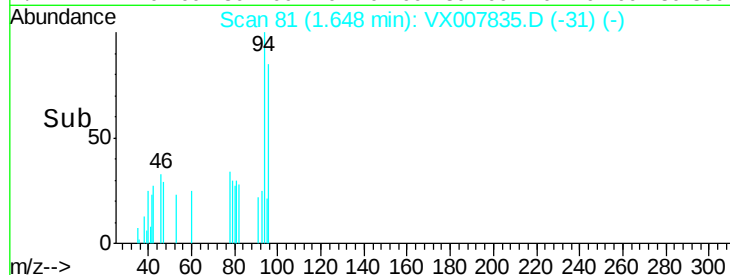


Abundance Ion 93.90 (93.60 to 94.60): VX0

Ion 95.90 (95.60 to 96.60): VX0



Time-->



#6

Chloroethane

Concen: 2.935 ug/l

RT: 1.94 min Scan# 129

Delta R.T. 0.22 min

Lab File: VX007835.D

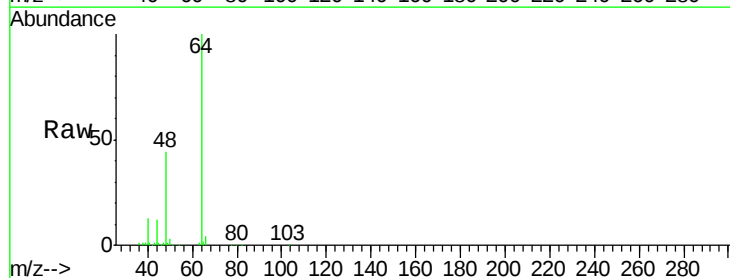
Acq: 05 Mar 2019 14:21

Tgt Ion: 64 Resp: 6164

Ion Ratio Lower Upper

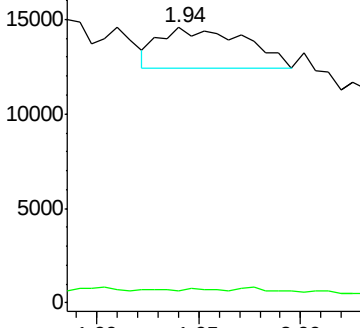
64 100

66 0.7 25.5 38.3#

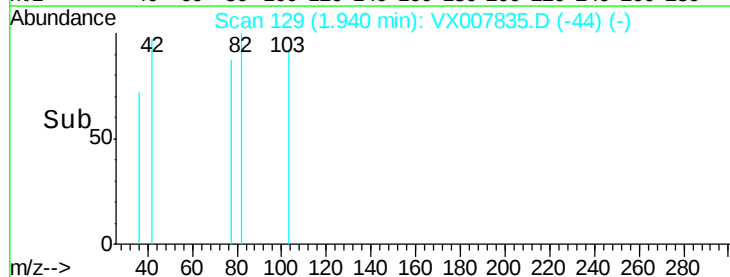


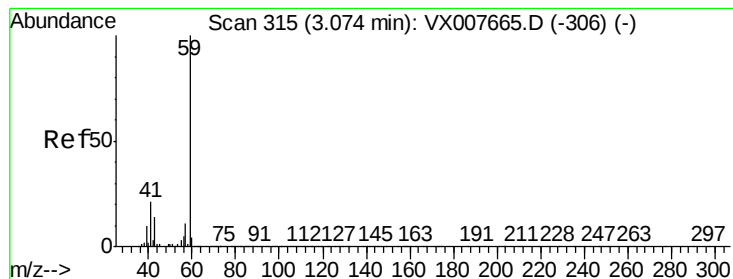
Abundance Ion 63.90 (63.60 to 64.60): VX0

Ion 65.90 (65.60 to 66.60): VX0



Time-->



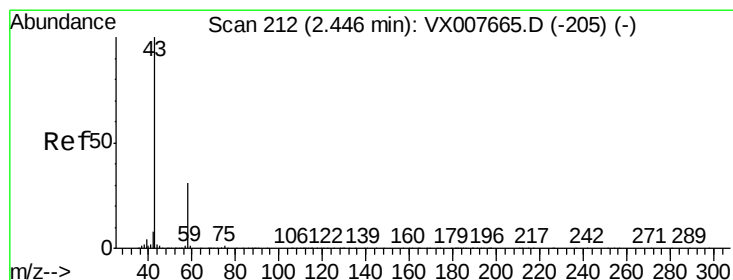
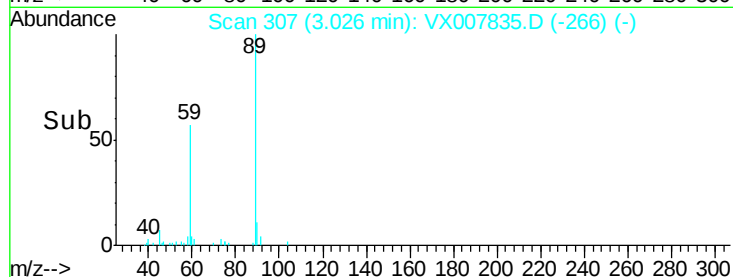
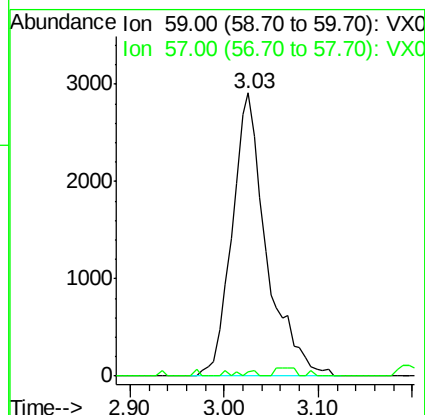
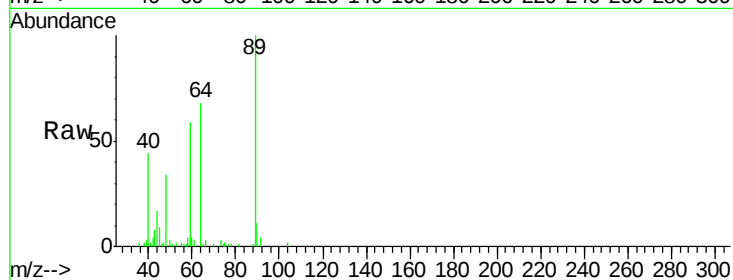


#11

Tert butyl alcohol
 Concen: 9.988 ug/l
 RT: 3.03 min Scan# 307
 Delta R.T. -0.05 min
 Lab File: VX007835.D
 Acq: 05 Mar 2019 14:21

Instrument :
 MSVOA_X
 ClientSampleId :
 M1-T5-OZ(PRE)

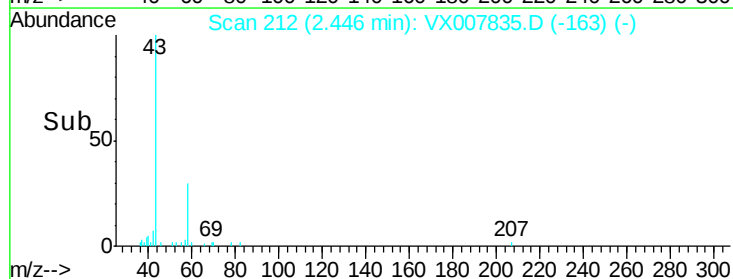
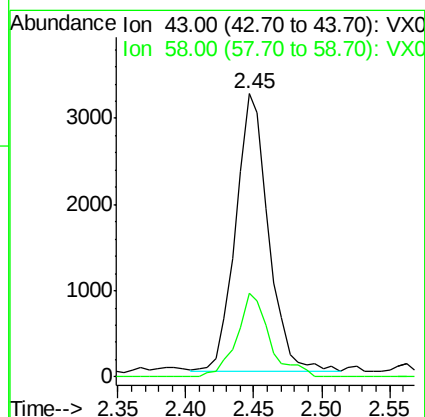
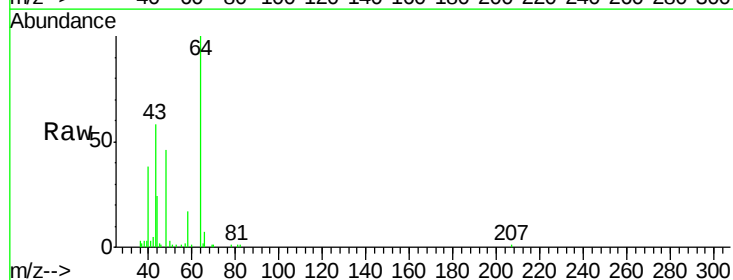
Tot Ion: 59 Resp: 7368
 Ion Ratio Lower Upper
 59 100
 57 0.5 8.1 12.1#

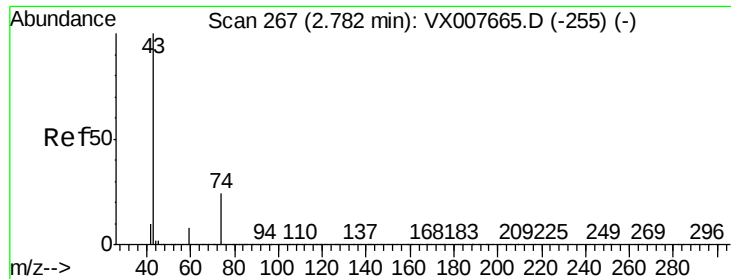


#16

Acetone
 Concen: 3.102 ug/l
 RT: 2.45 min Scan# 212
 Delta R.T. 0.00 min
 Lab File: VX007835.D
 Acq: 05 Mar 2019 14:21

Tgt Ion: 43 Resp: 5363
 Ion Ratio Lower Upper
 43 100
 58 30.0 24.9 37.3

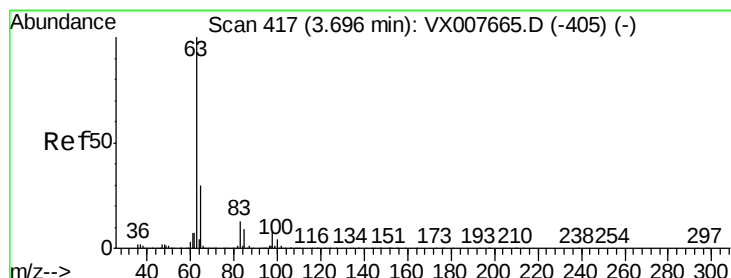
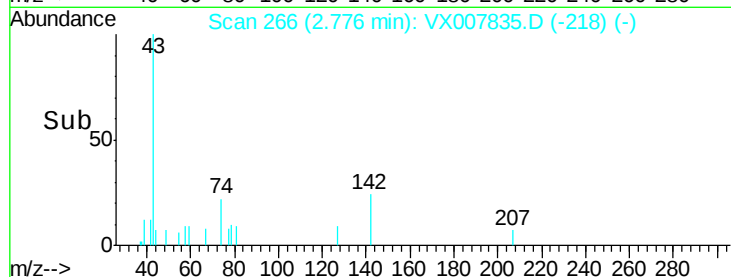
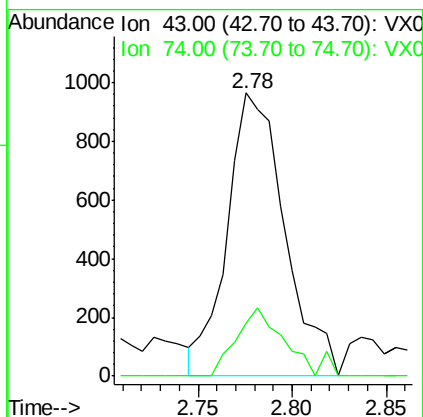
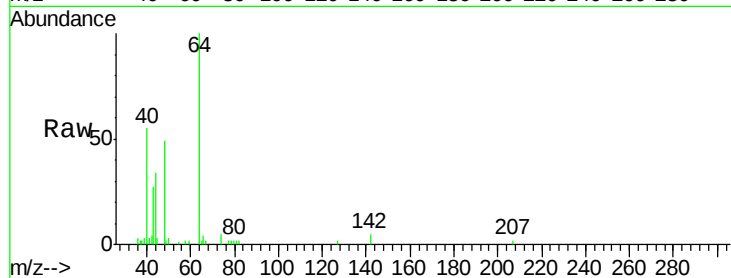




#18
Methyl Acetate
Concen: 0.543 ug/l
RT: 2.78 min Scan# 266
Delta R.T. -0.01 min
Lab File: VX007835.D
Acq: 05 Mar 2019 14:21

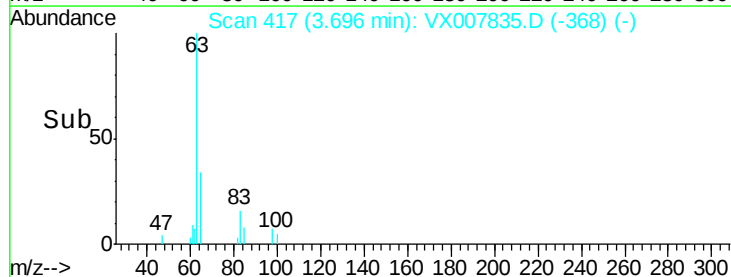
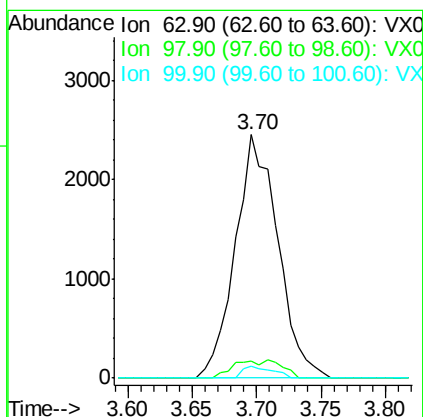
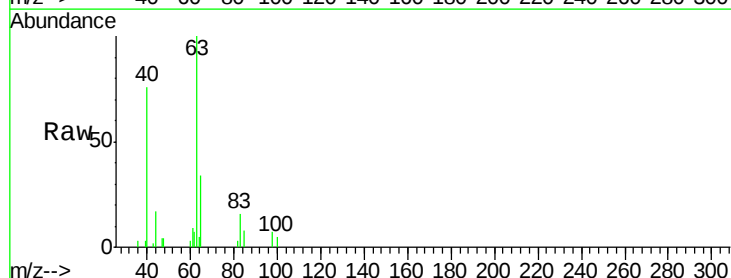
Instrument :
MSVOA_X
ClientSampleId :
M1-T5-OZ(PRE)

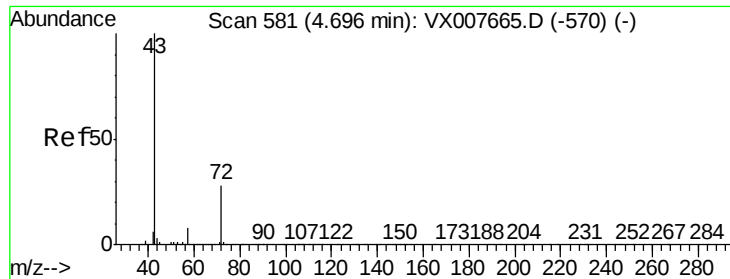
Tot Ion: 43 Resp: 2049
Ion Ratio Lower Upper
43 100
74 20.5 19.4 29.2



#24
1,1-Dichloroethane
Concen: 0.977 ug/l
RT: 3.70 min Scan# 417
Delta R.T. 0.00 min
Lab File: VX007835.D
Acq: 05 Mar 2019 14:21

Tgt Ion: 63 Resp: 5612
Ion Ratio Lower Upper
63 100
98 6.9 3.6 10.8
100 4.9 2.5 7.4

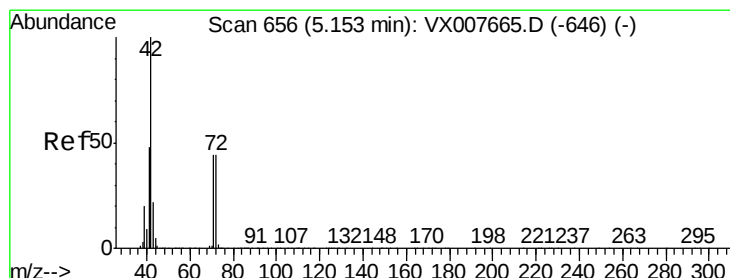
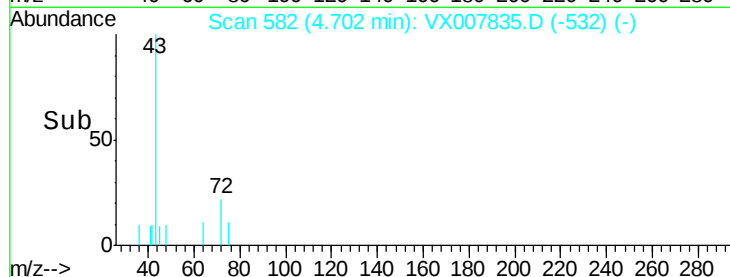
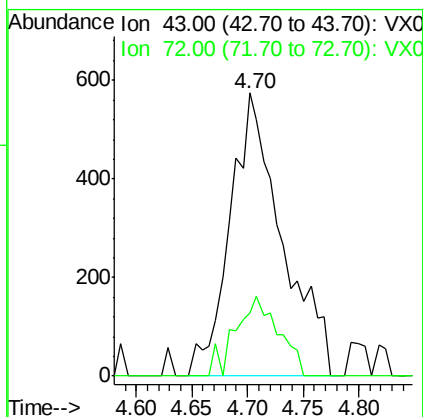
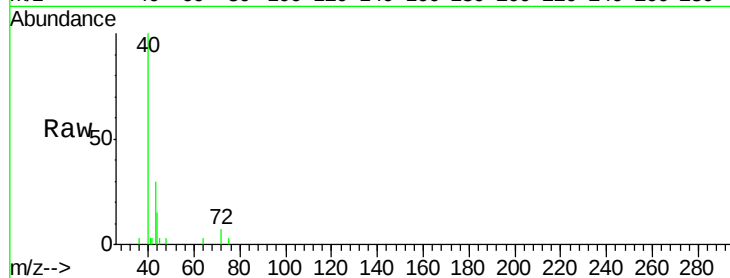




#25
2-Butanone
Concen: 0.711 ug/l
RT: 4.70 min Scan# 582
Delta R.T. 0.01 min
Lab File: VX007835.D
Acq: 05 Mar 2019 14:21

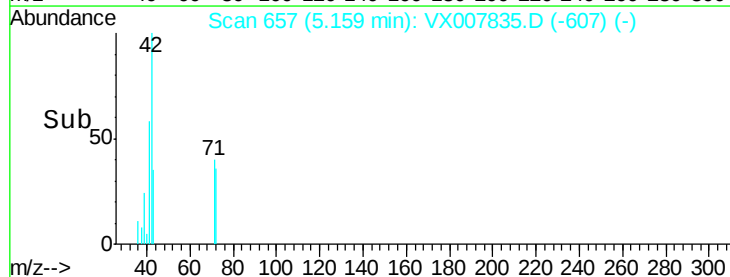
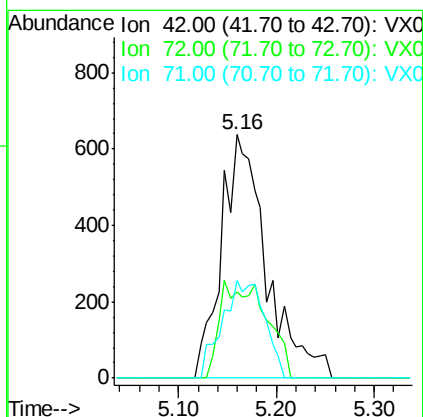
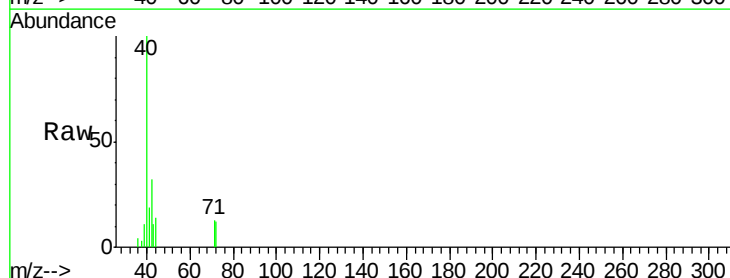
Instrument :
MSVOA_X
ClientSampleId :
M1-T5-OZ(PRE)

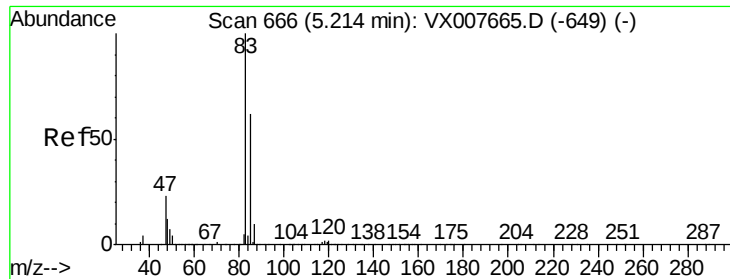
Tot Ion: 43 Resp: 1873
Ion Ratio Lower Upper
43 100
72 22.5 22.2 33.2



#29
Tetrahydrofuran
Concen: 1.182 ug/l
RT: 5.16 min Scan# 657
Delta R.T. 0.01 min
Lab File: VX007835.D
Acq: 05 Mar 2019 14:21

Tgt Ion: 42 Resp: 2052
Ion Ratio Lower Upper
42 100
72 19.8 37.6 56.4#
71 37.4 34.6 51.8





#30

Chloroform

Concen: 0.259 ug/l

RT: 5.21 min Scan# 665

Delta R.T. -0.01 min

Lab File: VX007835.D

Acq: 05 Mar 2019 14:21

Instrument :

MSVOA_X

ClientSampleId :

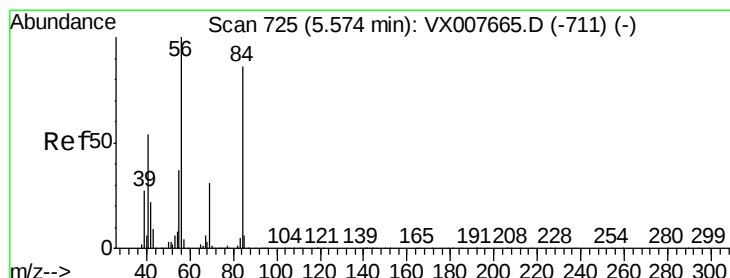
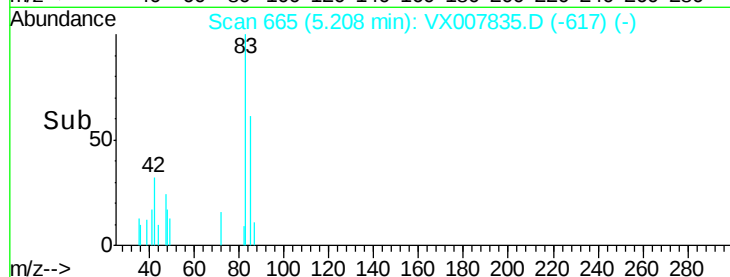
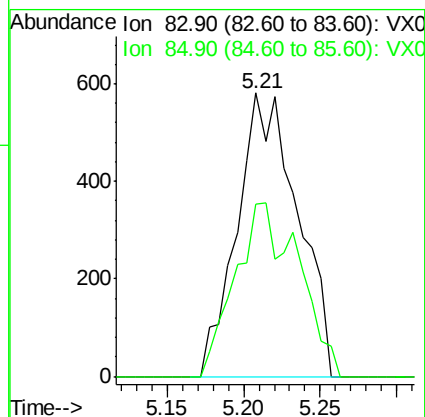
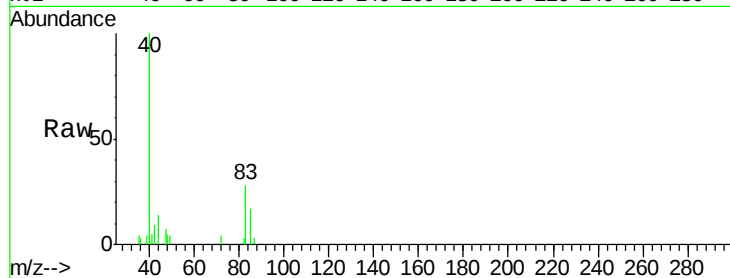
M1-T5-OZ(PRE)

Tot Ion: 83 Resp: 1595

Ion Ratio Lower Upper

83 100

85 60.9 51.6 77.4



#31

Cyclohexane

Concen: 0.886 ug/l

RT: 5.67 min Scan# 740

Delta R.T. 0.09 min

Lab File: VX007835.D

Acq: 05 Mar 2019 14:21

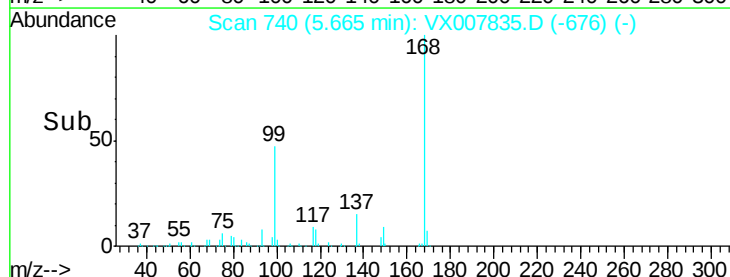
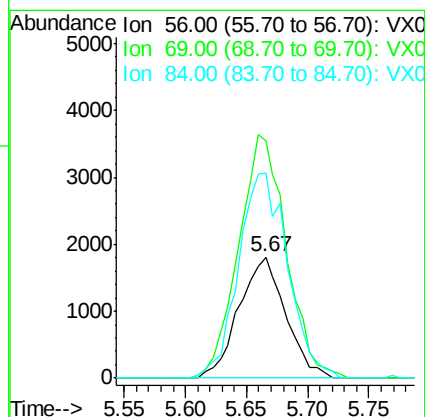
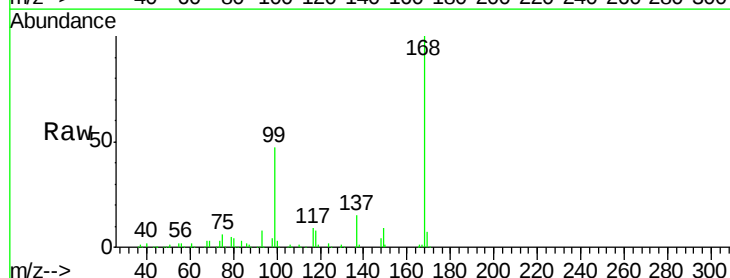
Tgt Ion: 56 Resp: 4787

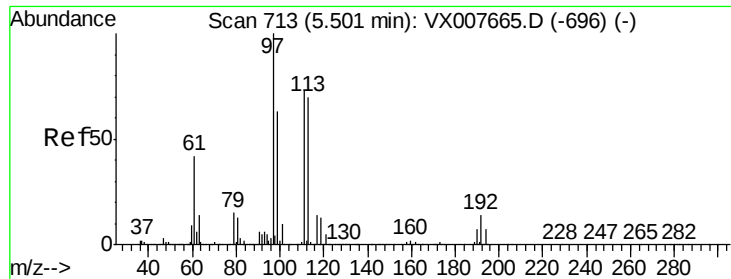
Ion Ratio Lower Upper

56 100

69 195.3 23.0 34.6#

84 168.7 69.8 104.6#





#32

1,1,1-Trichloroethane

Concen: 0.427 ug/l

RT: 5.49 min Scan# 712

Delta R.T. -0.01 min

Lab File: VX007835.D

Acq: 05 Mar 2019 14:21

Instrument :

MSVOA_X

ClientSampleId :

M1-T5-OZ(PRE)

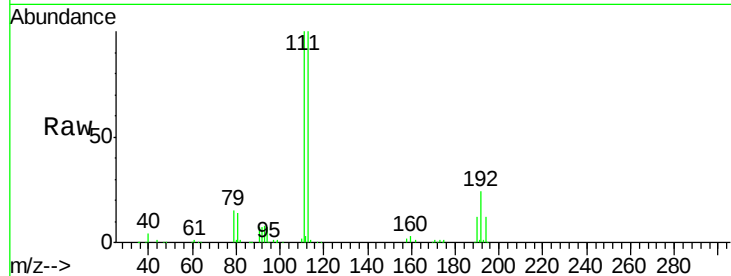
Tot Ion: 97 Resp: 2174

Ion Ratio Lower Upper

97 100

99 0.0 52.2 78.2#

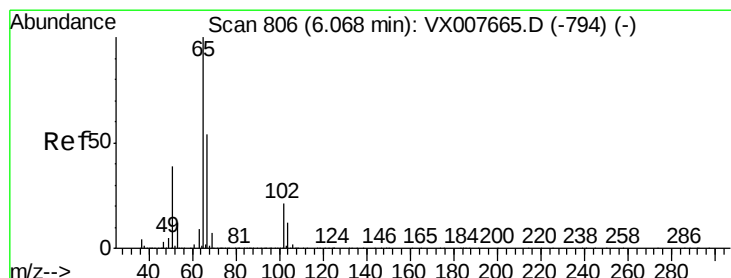
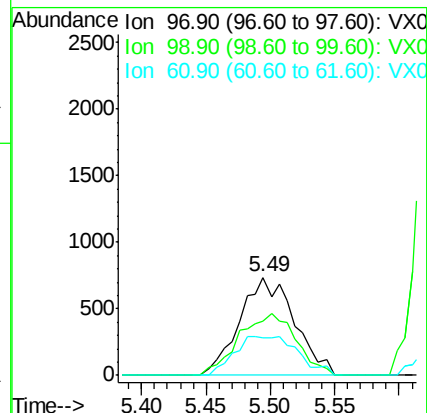
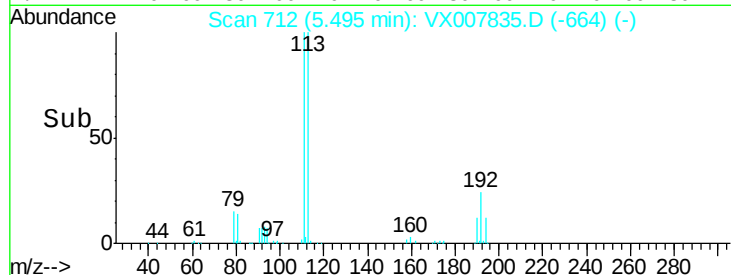
61 46.0 32.7 49.1



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: 45.381 ug/l

RT: 6.07 min Scan# 806

Delta R.T. 0.00 min

Lab File: VX007835.D

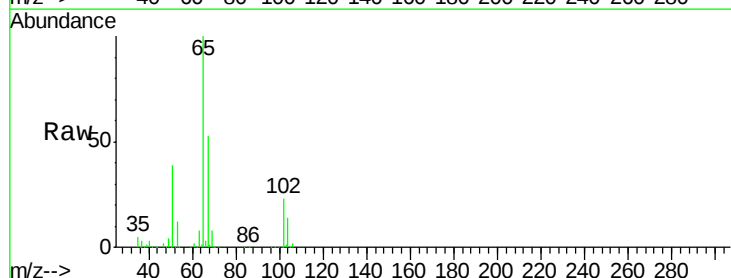
Acq: 05 Mar 2019 14:21

Tgt Ion: 65 Resp: 176440

Ion Ratio Lower Upper

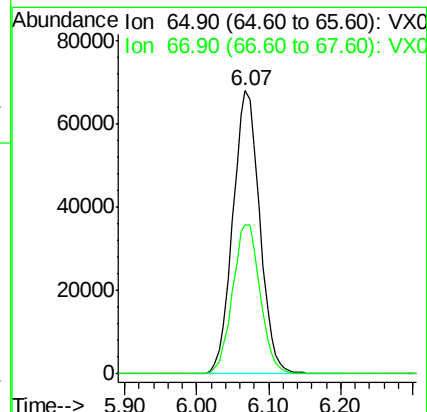
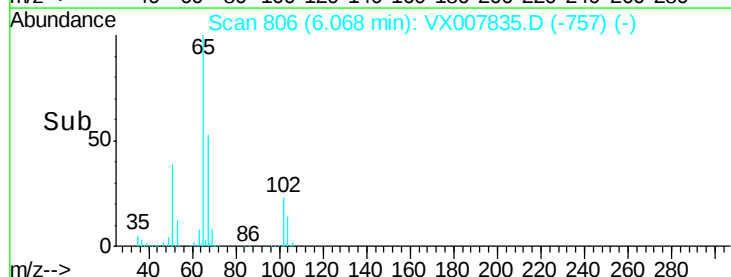
65 100

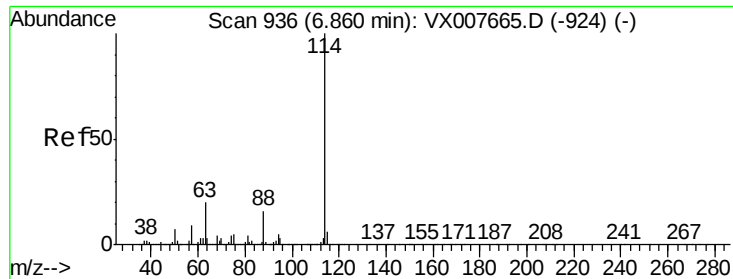
67 54.2 0.0 108.8



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: VX007835.D

Acq: 05 Mar 2019 14:21

Instrument :

MSVOA_X

ClientSampleId :

M1-T5-OZ(PRE)

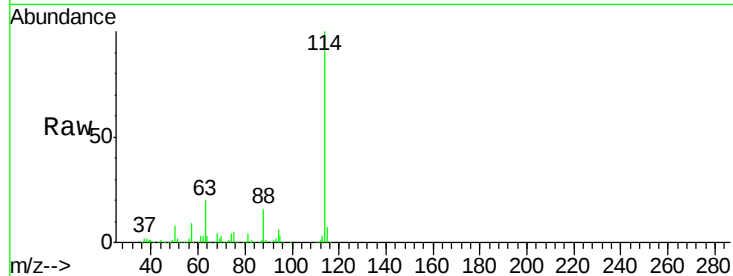
Tot Ion:114 Resp: 487671

Ion Ratio Lower Upper

114 100

63 20.2 0.0 35.6

88 15.8 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

250000

200000

150000

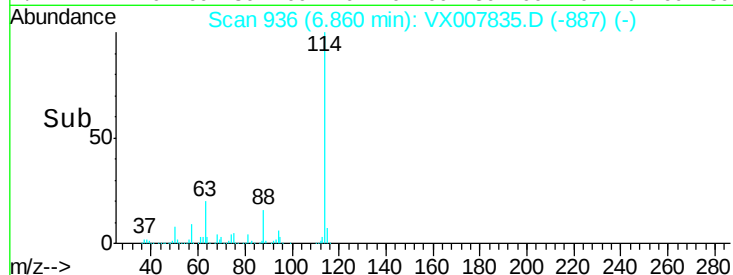
100000

50000

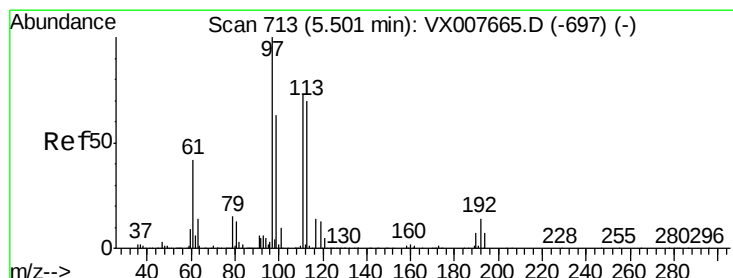
0

6.86

6.70 6.80 6.90 7.00



Time-->



#35

Dibromofluoromethane

Concen: 49.521 ug/l

RT: 5.50 min Scan# 713

Delta R.T. 0.00 min

Lab File: VX007835.D

Acq: 05 Mar 2019 14:21

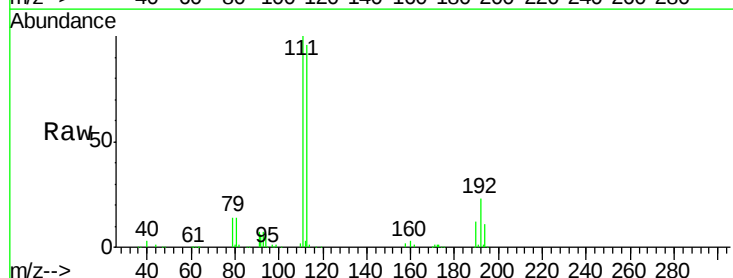
Tgt Ion:113 Resp: 161436

Ion Ratio Lower Upper

113 100

111 102.1 81.8 122.8

192 24.5 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

80000

60000

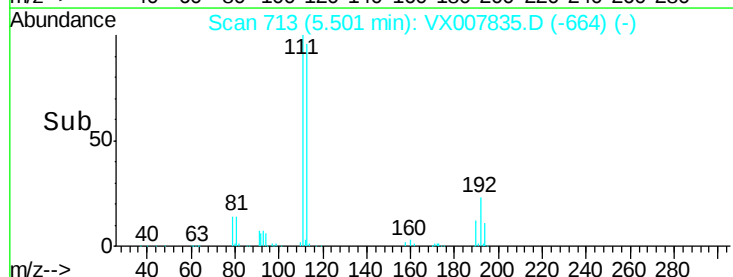
40000

20000

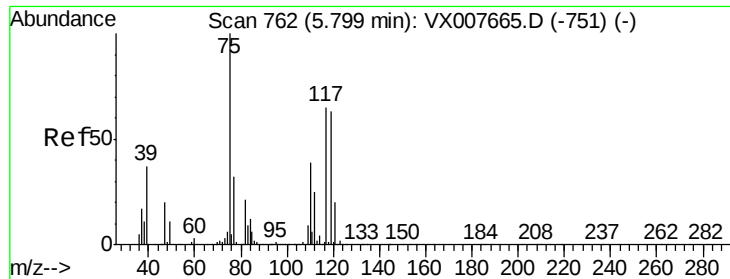
0

5.50

5.40 5.50 5.60



Time-->



#36

1,1-Dichloropropene

Concen: 4.506 ug/l

RT: 5.67 min Scan# 740

Delta R.T. -0.13 min

Lab File: VX007835.D

Acq: 05 Mar 2019 14:21

Instrument :

MSVOA_X

ClientSampleId :

M1-T5-OZ(PRE)

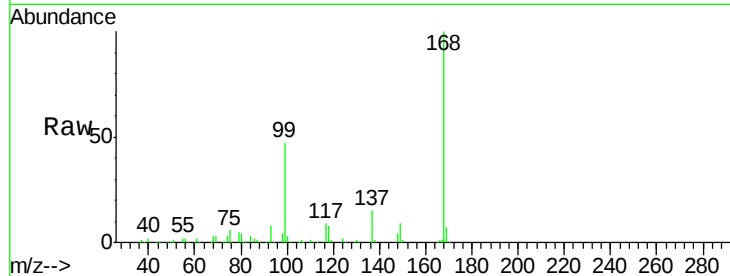
Tot Ion: 75 Resp: 19755

Ion Ratio Lower Upper

75 100

110 9.6 20.0 59.9#

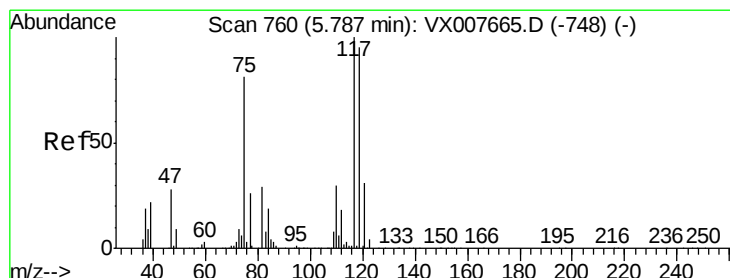
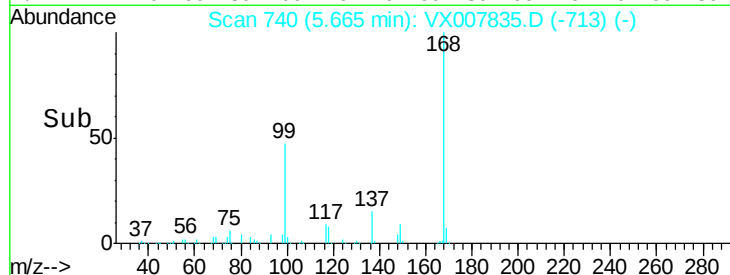
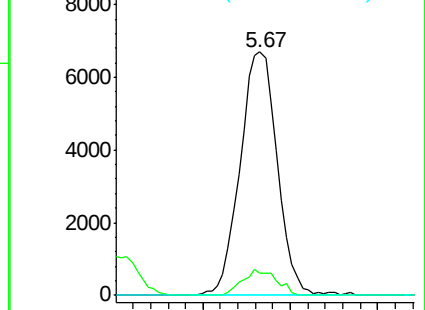
77 0.0 24.7 37.1#



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: 6.176 ug/l

RT: 5.67 min Scan# 740

Delta R.T. -0.12 min

Lab File: VX007835.D

Acq: 05 Mar 2019 14:21

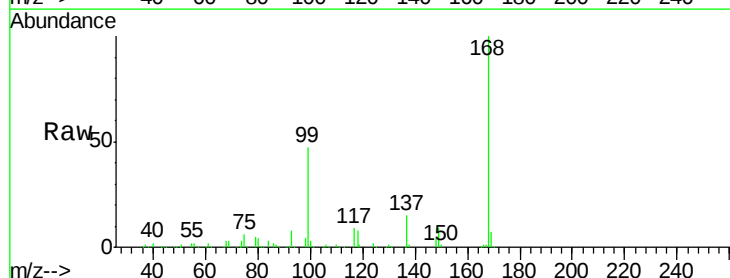
Tgt Ion:117 Resp: 27201

Ion Ratio Lower Upper

117 100

119 6.1 75.3 112.9#

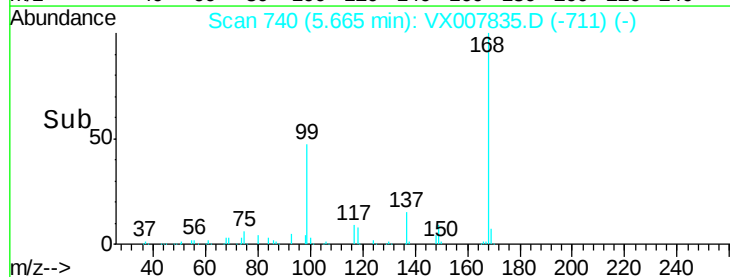
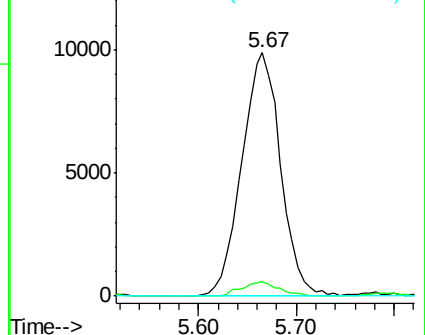
121 0.0 25.0 37.4#

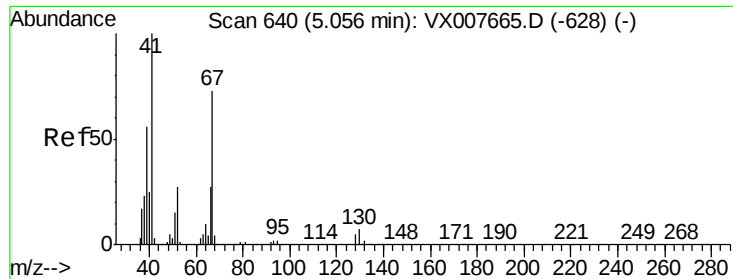


Abundance Ion 116.80 (116.50 to 117.50): V

Ion 118.80 (118.50 to 119.50): V

Ion 120.80 (120.50 to 121.50): V

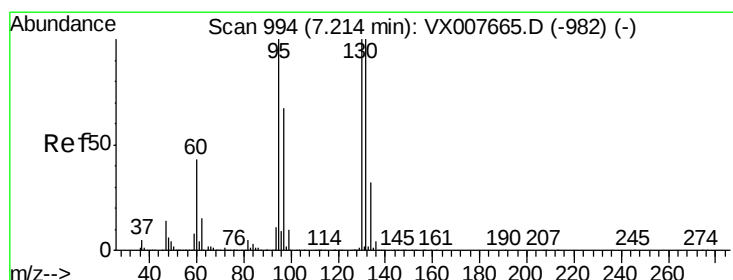
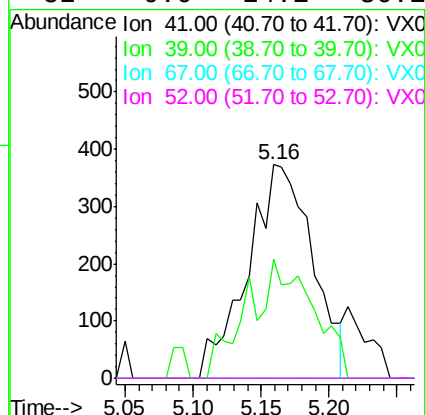
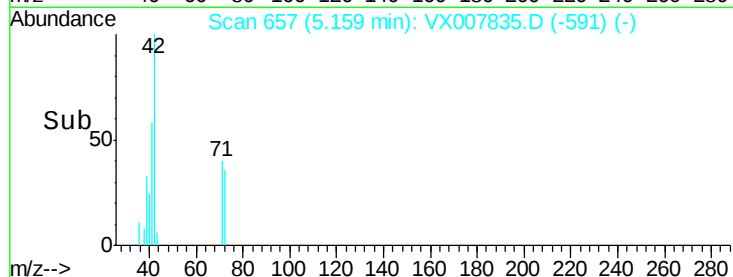
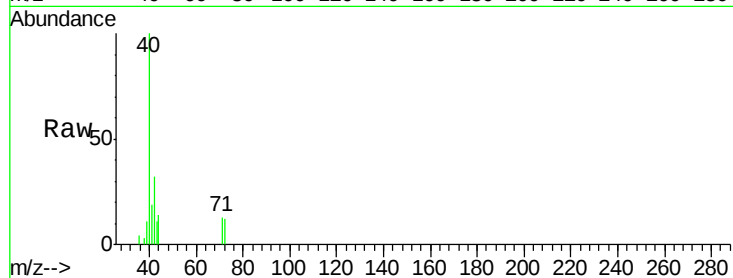




#41
Methacrylonitrile
Concen: 0.478 ug/l
RT: 5.16 min Scan# 657
Delta R.T. 0.10 min
Lab File: VX007835.D
Acq: 05 Mar 2019 14:21

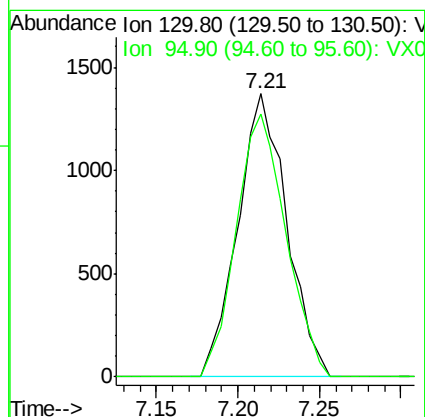
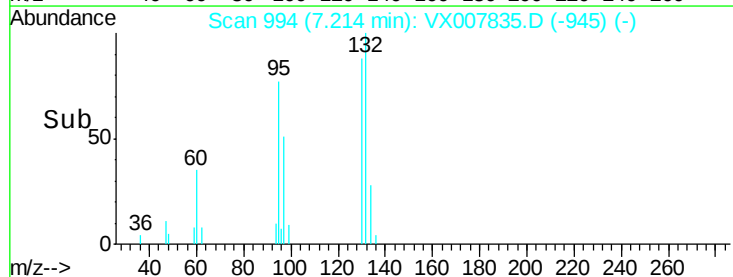
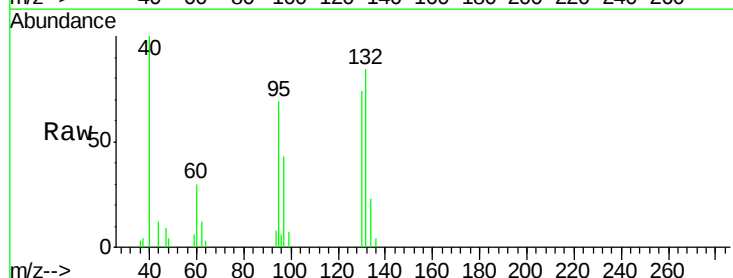
Instrument :
MSVOA_X
ClientSampleId :
M1-T5-OZ(PRE)

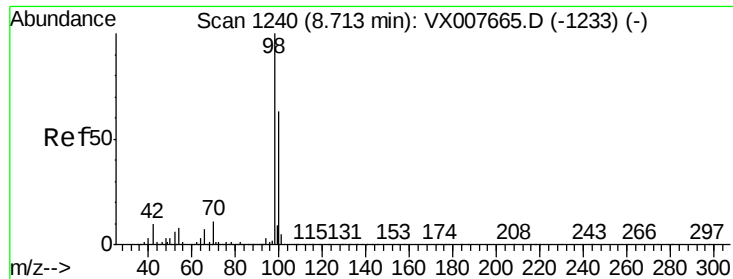
Tot Ion: 41 Resp: 1244
Ion Ratio Lower Upper
41 100
39 39.5 44.5 66.7#
67 0.0 60.4 90.6#
52 0.0 24.1 36.1#



#44
Trichloroethene
Concen: 0.771 ug/l
RT: 7.21 min Scan# 994
Delta R.T. 0.00 min
Lab File: VX007835.D
Acq: 05 Mar 2019 14:21

Tgt Ion:130 Resp: 2870
Ion Ratio Lower Upper
130 100
95 92.9 0.0 180.0





#50

Toluene-d8

Concen: 47.280 ug/l

RT: 8.71 min Scan# 1240

Delta R.T. 0.00 min

Lab File: VX007835.D

Acq: 05 Mar 2019 14:21

Instrument :

MSVOA_X

ClientSampleId :

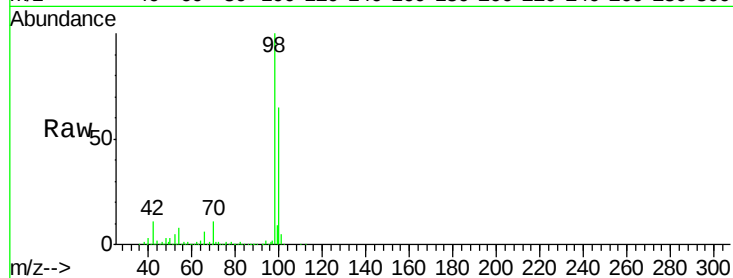
M1-T5-OZ(PRE)

Tot Ion: 98 Resp: 590067

Ion Ratio Lower Upper

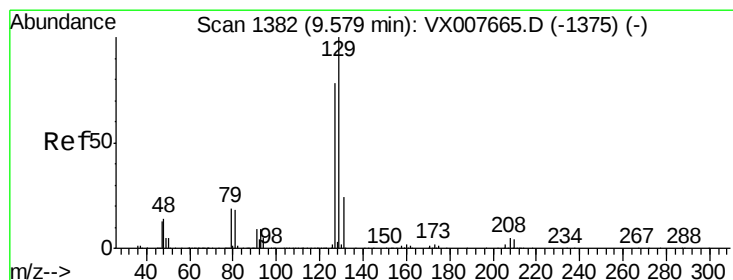
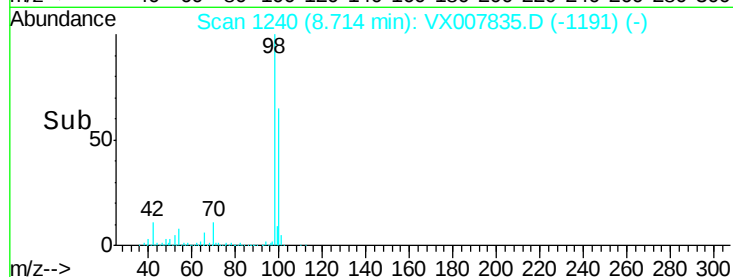
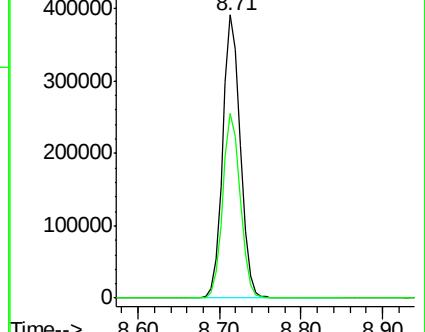
98 100

100 65.2 51.6 77.4



Abundance Ion 98.00 (97.70 to 98.70): VX0

Ion 100.00 (99.70 to 100.70): VX



#60

Dibromochloromethane

Concen: 0.512 ug/l

RT: 9.34 min Scan# 1342

Delta R.T. -0.24 min

Lab File: VX007835.D

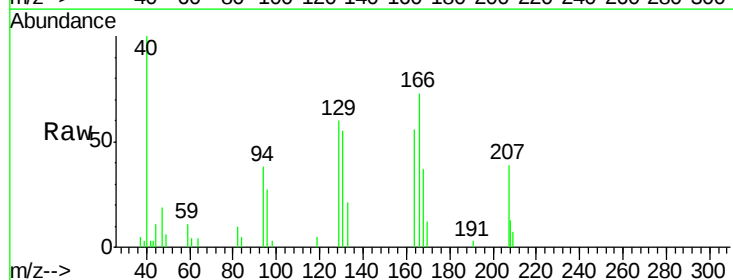
Acq: 05 Mar 2019 14:21

Tgt Ion:129 Resp: 1752

Ion Ratio Lower Upper

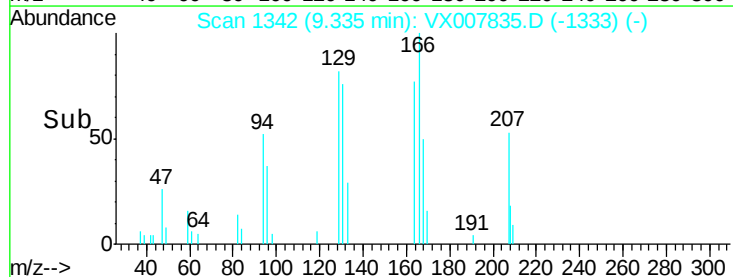
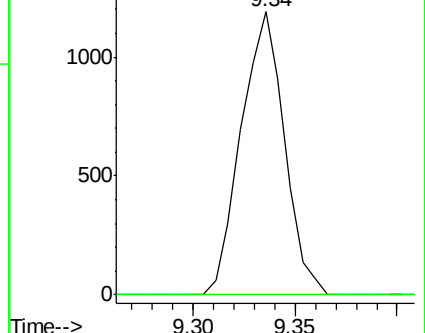
129 100

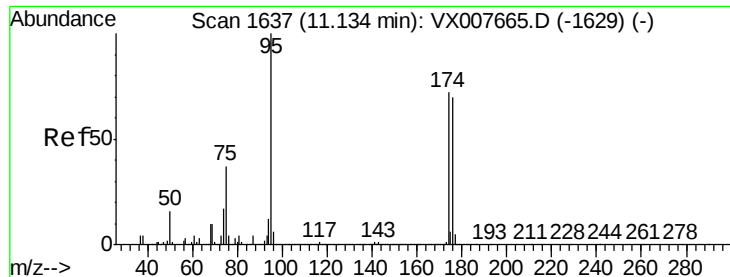
127 0.0 37.8 113.4#



Abundance Ion 128.80 (128.50 to 129.50): V

Ion 126.80 (126.50 to 127.50): V





#62

4-Bromofluorobenzene

Concen: 46.531 ug/l

RT: 11.13 min Scan# 1637

Delta R.T. 0.00 min

Lab File: VX007835.D

Acq: 05 Mar 2019 14:21

Instrument :

MSVOA_X

ClientSampleId :

M1-T5-OZ(PRE)

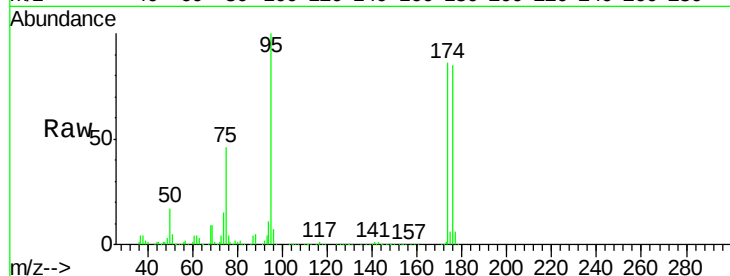
Tot Ion: 95 Resp: 213145

Ion Ratio Lower Upper

95 100

174 92.8 0.0 189.2

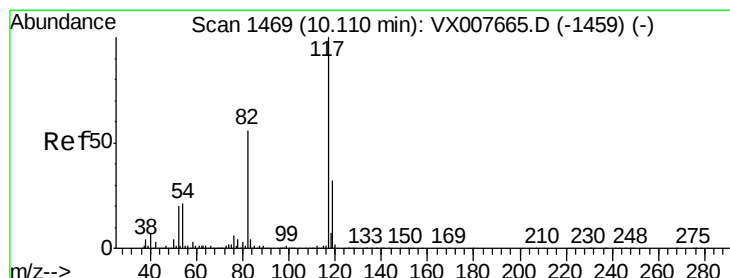
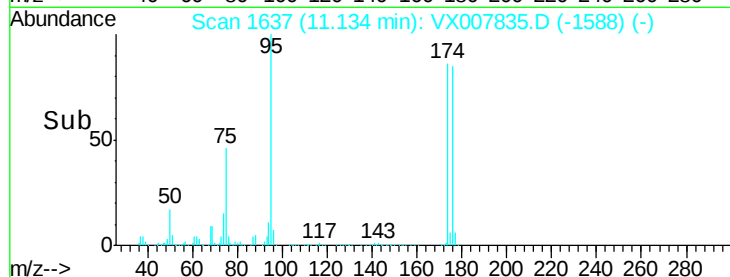
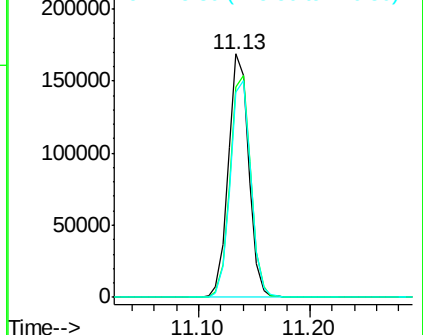
176 90.5 0.0 186.2



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: VX007835.D

Acq: 05 Mar 2019 14:21

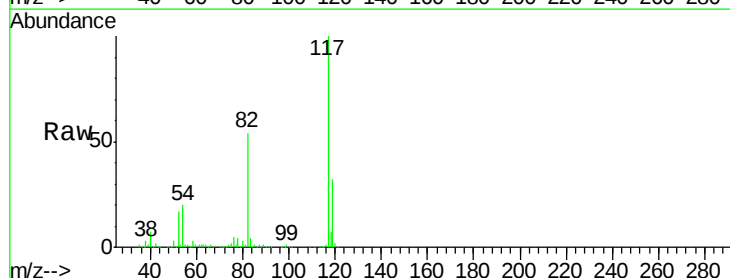
Tgt Ion: 117 Resp: 459450

Ion Ratio Lower Upper

117 100

82 54.4 42.1 63.1

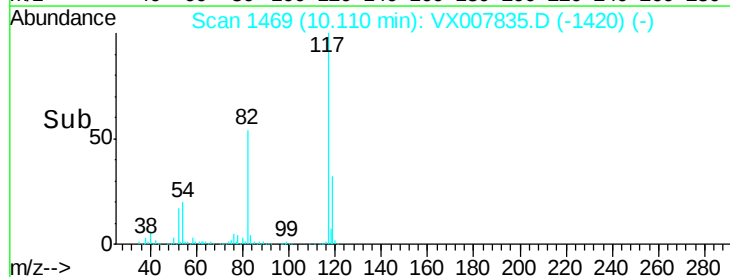
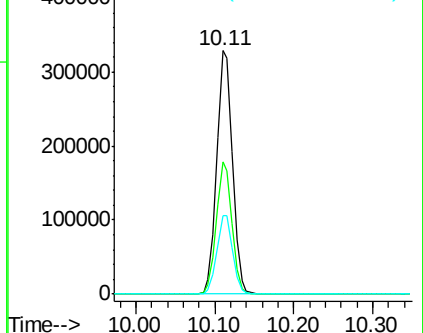
119 32.1 26.5 39.7

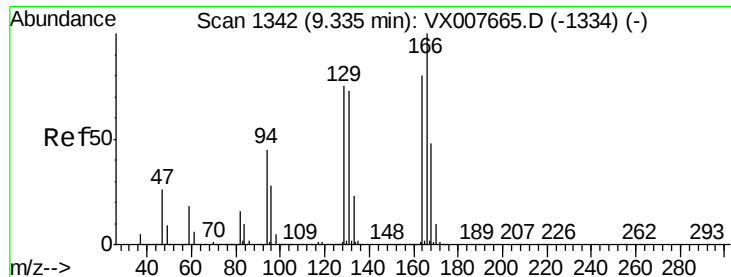


Abundance Ion 116.90 (116.60 to 117.60): V

Ion 82.00 (81.70 to 82.70): VX0

Ion 118.90 (118.60 to 119.60): V

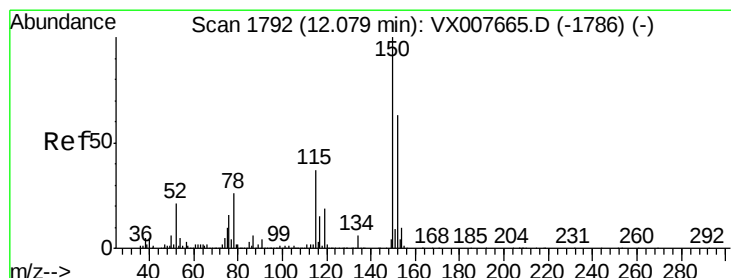
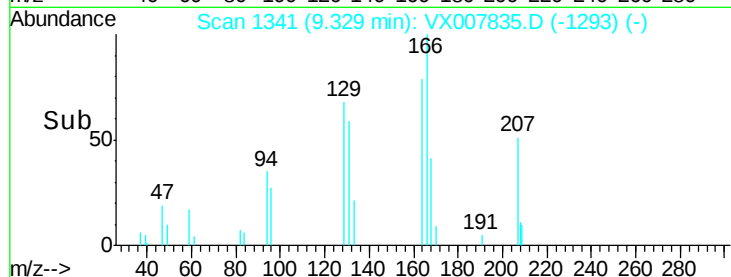
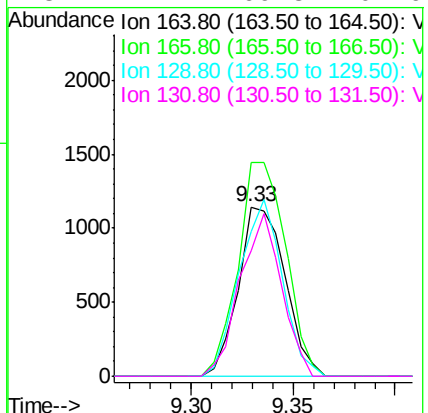
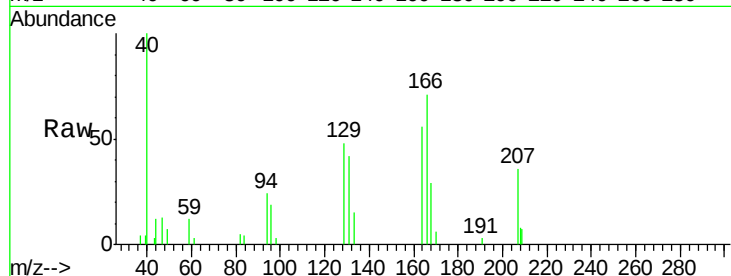




#64
Tetrachloroethene
Concen: 0.487 ug/l
RT: 9.33 min Scan# 1341
Delta R.T. -0.01 min
Lab File: VX007835.D
Acq: 05 Mar 2019 14:21

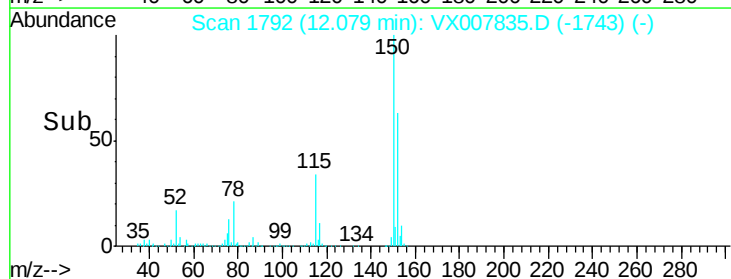
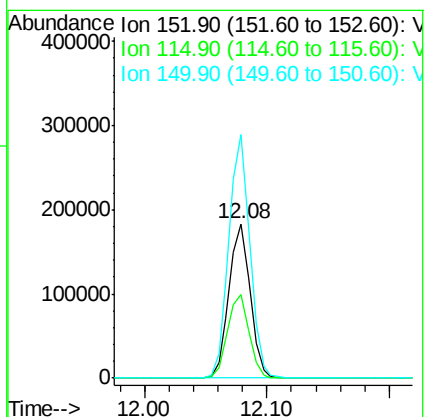
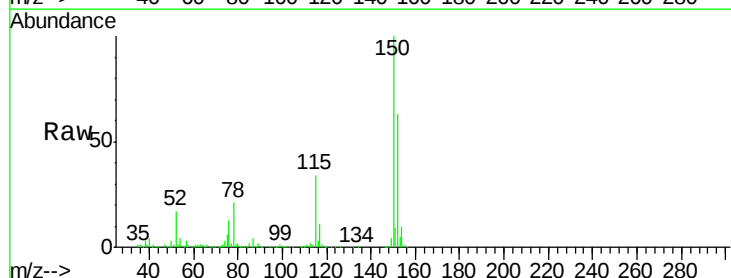
Instrument :
MSVOA_X
ClientSampleId :
M1-T5-OZ(PRE)

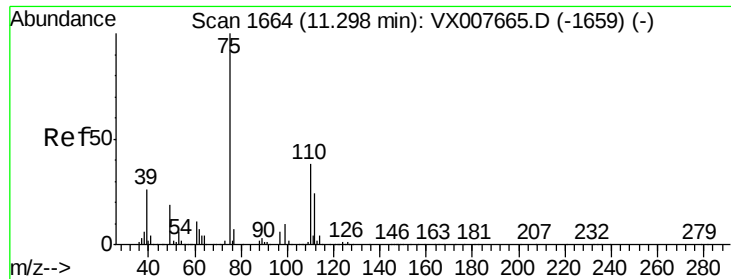
Tot Ion:164 Resp: 1818
Ion Ratio Lower Upper
164 100
166 125.9 101.0 151.4
129 85.1 70.5 105.7
131 74.1 69.8 104.6



#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 12.08 min Scan# 1792
Delta R.T. 0.00 min
Lab File: VX007835.D
Acq: 05 Mar 2019 14:21

Tgt Ion:152 Resp: 219012
Ion Ratio Lower Upper
152 100
115 54.9 38.0 114.0
150 156.4 0.0 346.4

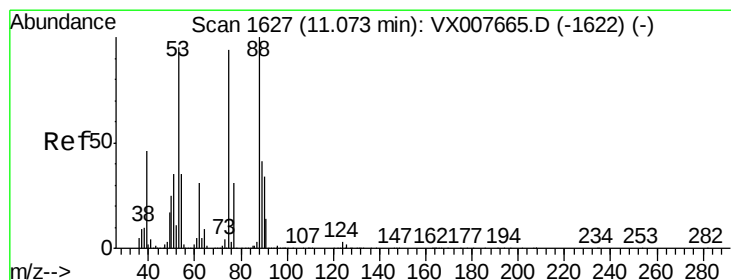
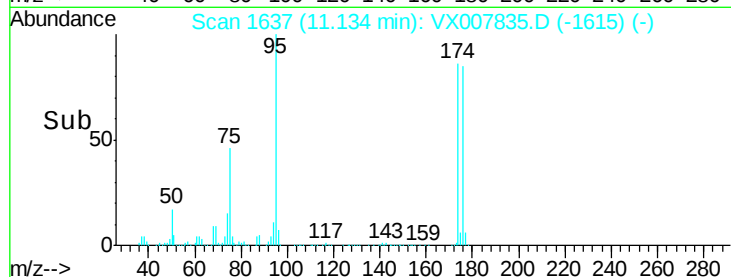
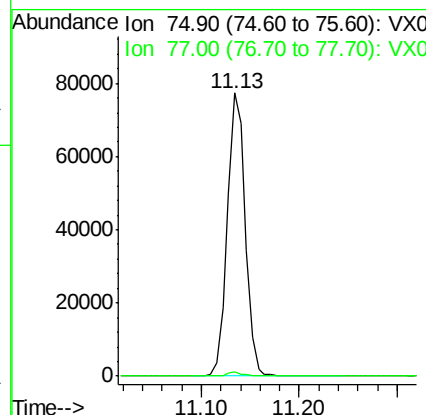
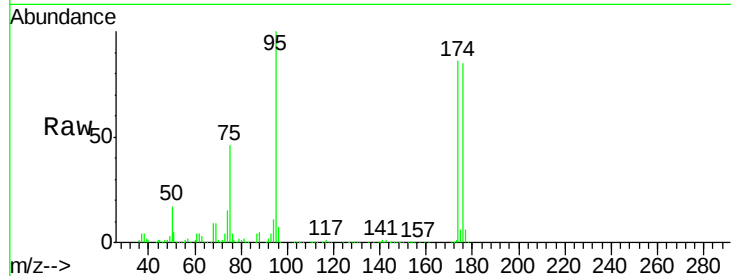




#76
 1,2,3-Trichloropropane
 Concen: 21.043 ug/l
 RT: 11.13 min Scan# 1637
 Delta R.T. -0.16 min
 Lab File: VX007835.D
 Acq: 05 Mar 2019 14:21

Instrument :
 MSVOA_X
 ClientSampleId :
 M1-T5-OZ(PRE)

Tot Ion: 75 Resp: 98238
 Ion Ratio Lower Upper
 75 100
 77 1.3 23.0 69.0#



#81
 trans-1,4-Dichloro-2-butene
 Concen: 56.006 ug/l
 RT: 11.13 min Scan# 1637
 Delta R.T. 0.06 min
 Lab File: VX007835.D
 Acq: 05 Mar 2019 14:21

Tgt Ion: 75 Resp: 98238
 Ion Ratio Lower Upper
 75 100
 53 0.1 81.0 121.6#
 89 0.0 41.4 62.0#

