

Data Path : Z:\VOASRV\HPCHEM1\MSVOA X\DATA\VX121218\
 Data File : VX006477.D
 Acq On : 13 Dec 2018 06:26
 Operator : JC/MD
 Sample : J6194-06
 Misc : 5.0mL/MSVOA X/WATER
 ALS Vial : 44 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :
 OK-03-121118

Quant Time: Dec 13 07:46:43 2018
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_X\METHOD\82X112918W.M
 Quant Title : SW846 8260
 QLast Update : Fri Nov 30 03:55:33 2018
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	5.67	168	659430	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	6.86	114	1038438	50.00	ug/l	0.00
63) Chlorobenzene-d5	10.12	117	960009	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.08	152	461570	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	349522	51.92	ug/l	0.00
Spiked Amount			Recovery	=	103.84%	
35) Dibromofluoromethane	5.51	113	315597	46.94	ug/l	0.00
Spiked Amount			Recovery	=	93.88%	
50) Toluene-d8	8.71	98	1237404	50.60	ug/l	0.00
Spiked Amount			Recovery	=	101.20%	
62) 4-Bromofluorobenzene	11.13	95	456063	49.49	ug/l	0.00
Spiked Amount			Recovery	=	98.98%	

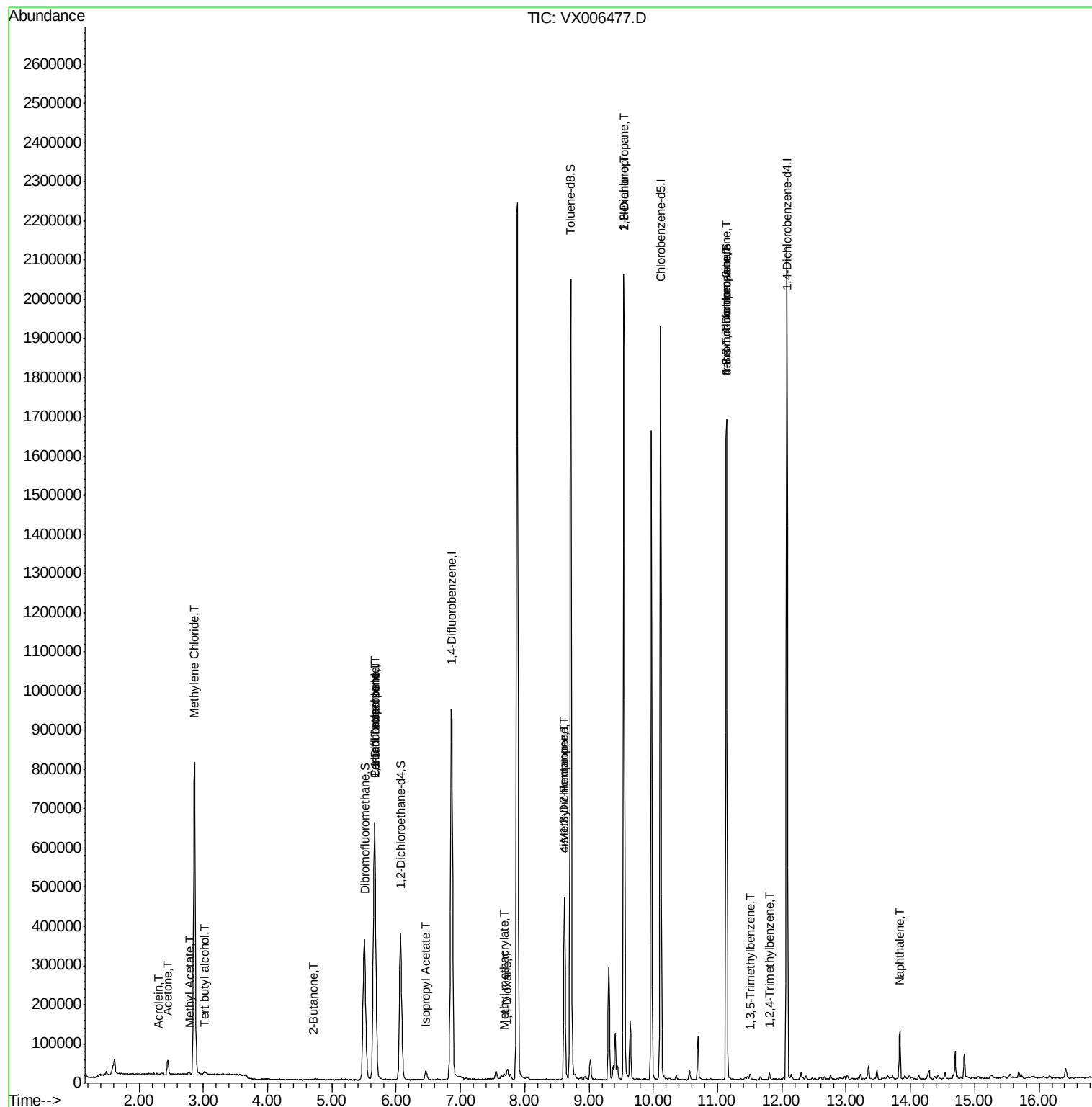
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
11) Tert butyl alcohol	3.02	59	6761	3.673	ug/l #	77
13) Acrolein	2.29	56	1019	1.013	ug/l #	62
16) Acetone	2.45	43	37612	11.906	ug/l	95
18) Methyl Acetate	2.79	43	7650	0.724	ug/l	95
20) Methylene Chloride	2.86	84	380328	56.567	ug/l	94
25) 2-Butanone	4.70	43	3165	0.702	ug/l #	79
36) 1,1-Dichloropropene	5.67	75	43454	4.969	ug/l #	49
38) Carbon Tetrachloride	5.67	117	61365	5.965	ug/l #	16
43) Isopropyl Acetate	6.46	43	29683	1.818	ug/l	96
48) Methyl methacrylate	7.68	41	14693	1.850	ug/l #	14
49) 1,4-Dioxane	7.73	88	83	0.424	ug/l #	1
51) 4-Methyl-2-Pentanone	8.62	43	147234	15.490	ug/l #	49
54) cis-1,3-Dichloropropene	8.62	75	80014	7.077	ug/l #	56
57) 1,3-Dichloropropane	9.54	76	18627	1.683	ug/l #	47
59) 2-Hexanone	9.54	43	226027	31.125	ug/l #	51
76) 1,2,3-Trichloropropane	11.13	75	209846	23.554	ug/l #	38
80) 1,3,5-Trimethylbenzene	11.51	105	6538	0.247	ug/l	96
81) trans-1,4-Dichloro-2-buten	11.13	75	209846	55.275	ug/l #	15
84) 1,2,4-Trimethylbenzene	11.80	105	8857	0.323	ug/l	89
95) Naphthalene	13.83	128	81525	2.300	ug/l	99

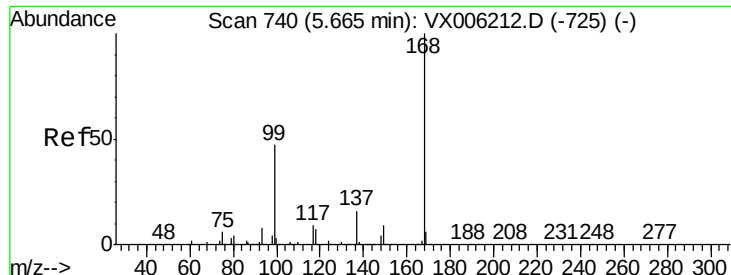
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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Quant Title : SW846 8260
QLast Update : Fri Nov 30 03:55:33 2018
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: VX006477.D

Acq: 13 Dec 2018 06:26

Instrument :

MSVOA_X

ClientSampleId :

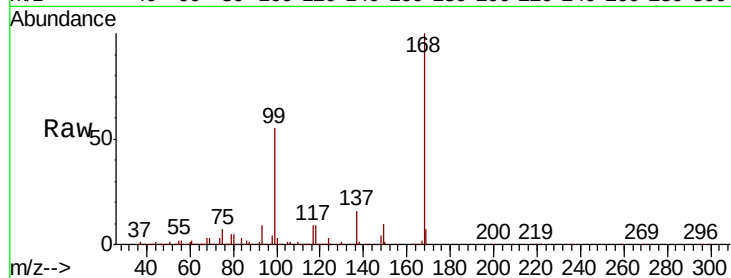
OK-03-121118

Tot Ion:168 Resp: 659430

Ion Ratio Lower Upper

168 100

99 55.2 37.8 56.8



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VX0

5.67

250000

200000

150000

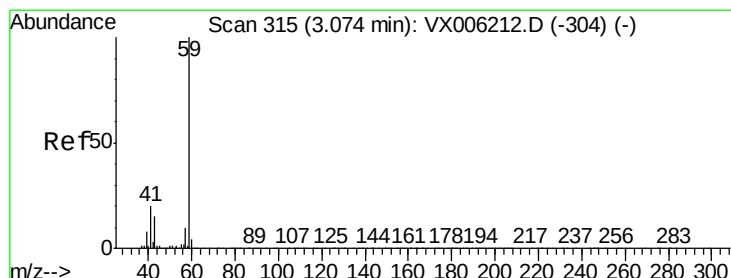
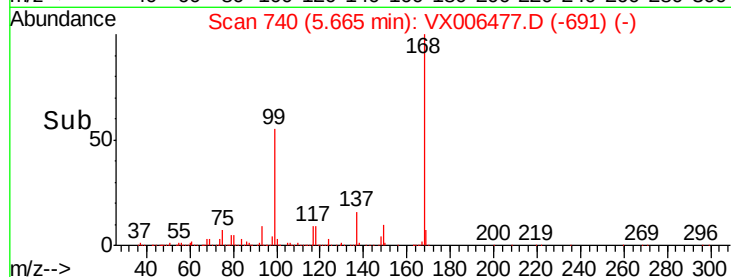
100000

50000

0

Time-->

5.50 5.60 5.70 5.80 5.90



#11

Tert butyl alcohol

Concen: 3.673 ug/l

RT: 3.02 min Scan# 306

Delta R.T. -0.05 min

Lab File: VX006477.D

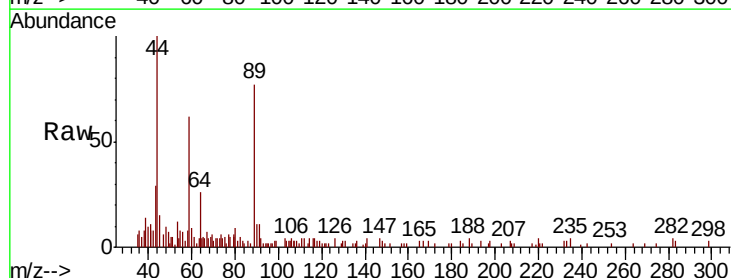
Acq: 13 Dec 2018 06:26

Tgt Ion: 59 Resp: 6761

Ion Ratio Lower Upper

59 100

57 1.5 8.2 12.2#



Abundance Ion 59.00 (58.70 to 59.70): VX0

Ion 57.00 (56.70 to 57.70): VX0

3.02

2500

2000

1500

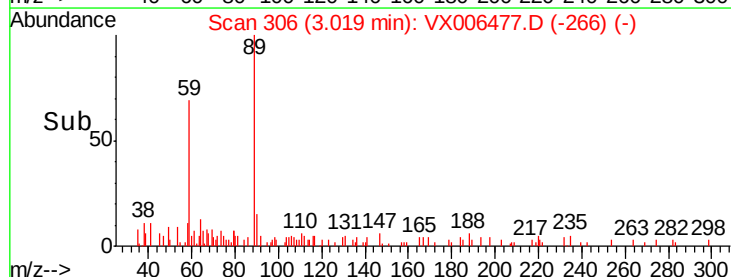
1000

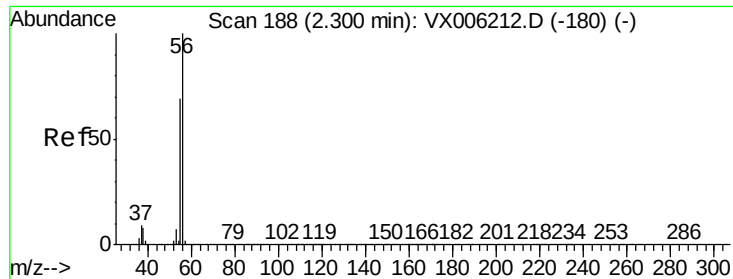
500

0

Time-->

2.90 3.00 3.10

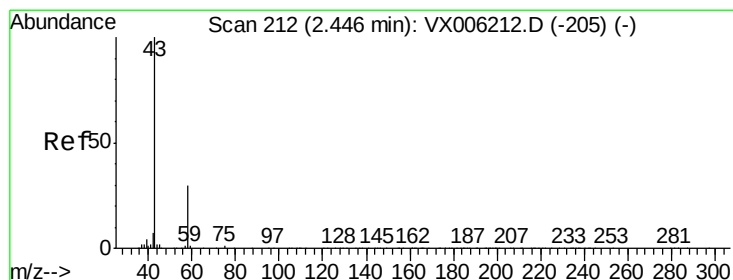
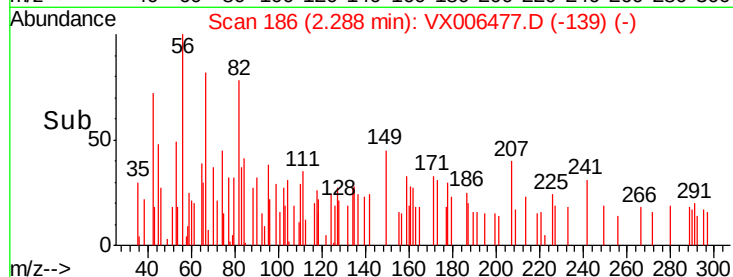
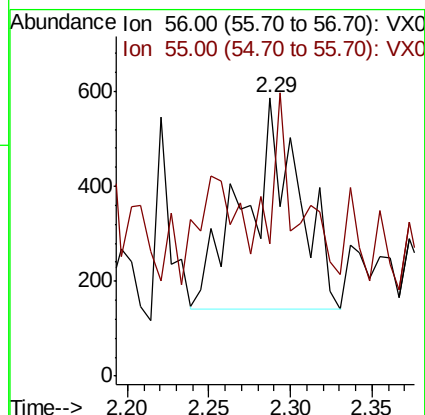
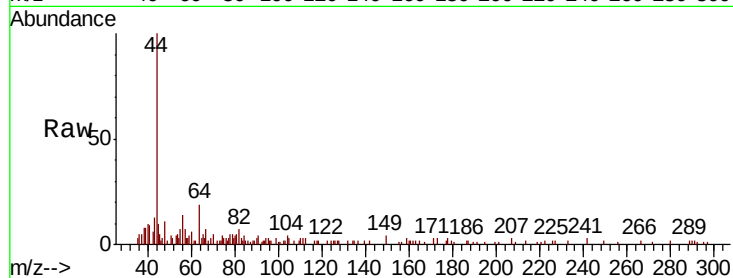




#13
Acrolein
Concen: 1.013 ug/l
RT: 2.29 min Scan# 186
Delta R.T. -0.01 min
Lab File: VX006477.D
Acq: 13 Dec 2018 06:26

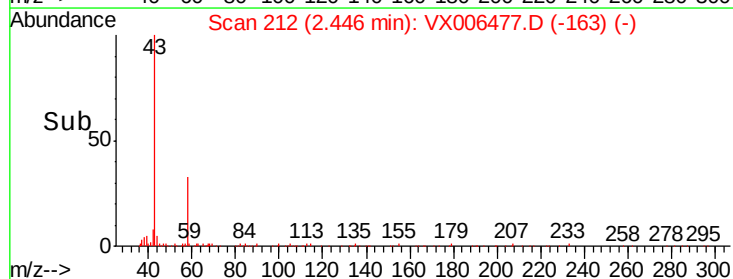
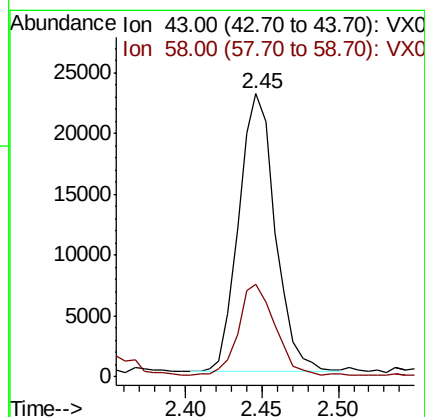
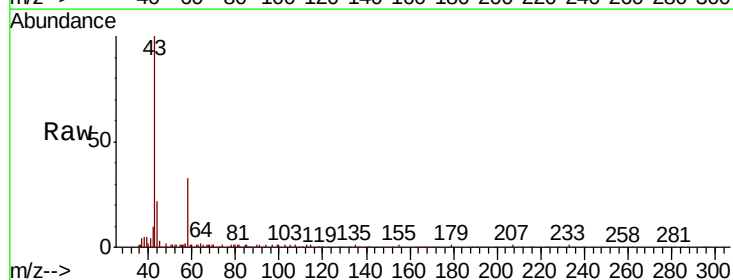
Instrument :
MSVOA_X
ClientSampleId :
OK-03-121118

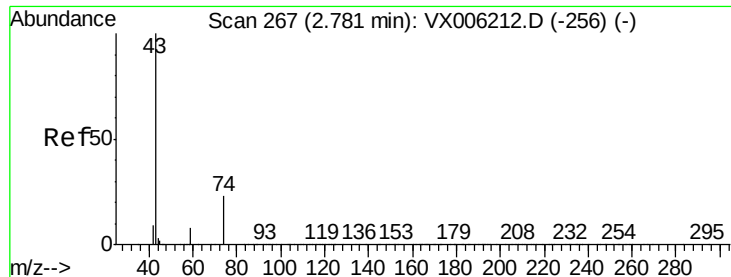
Tot Ion: 56 Resp: 1019
Ion Ratio Lower Upper
56 100
55 40.3 57.8 86.6#



#16
Acetone
Concen: 11.906 ug/l
RT: 2.45 min Scan# 212
Delta R.T. -0.00 min
Lab File: VX006477.D
Acq: 13 Dec 2018 06:26

Tgt Ion: 43 Resp: 37612
Ion Ratio Lower Upper
43 100
58 32.6 24.0 36.0

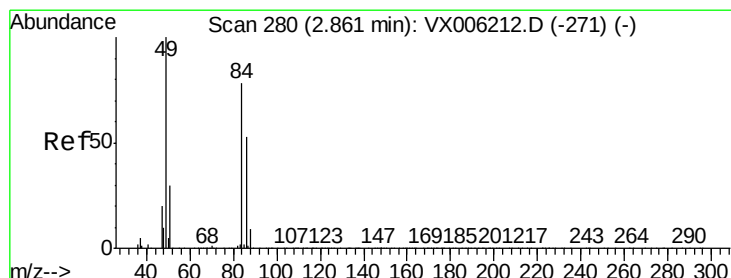
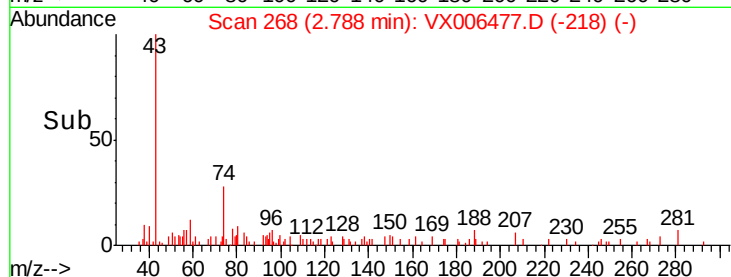
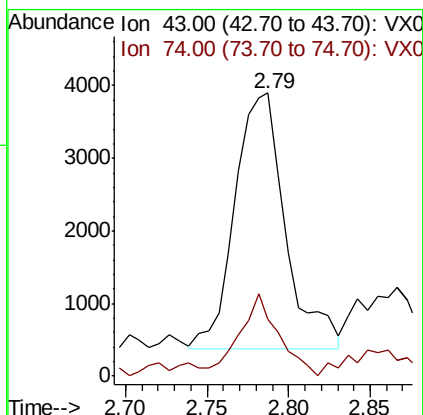
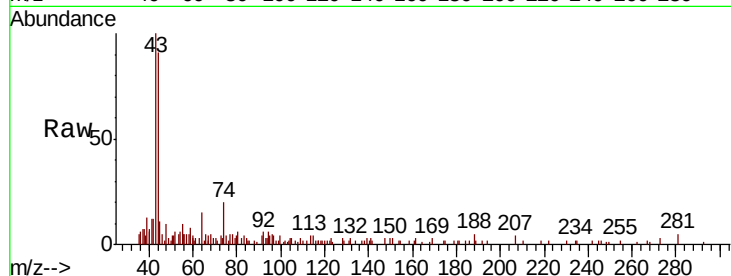




#18
Methyl Acetate
Concen: 0.724 ug/l
RT: 2.79 min Scan# 268
Delta R.T. 0.01 min
Lab File: VX006477.D
Acq: 13 Dec 2018 06:26

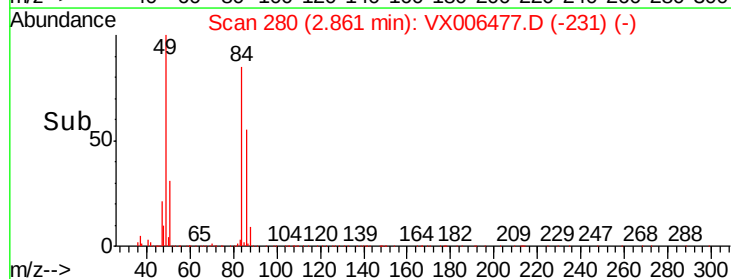
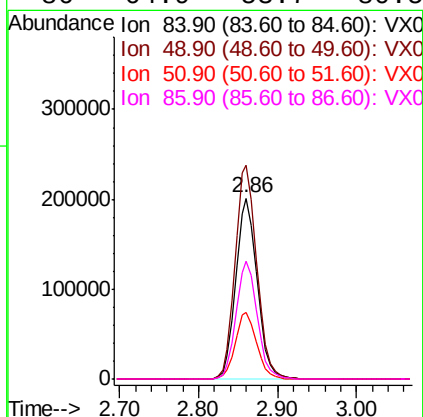
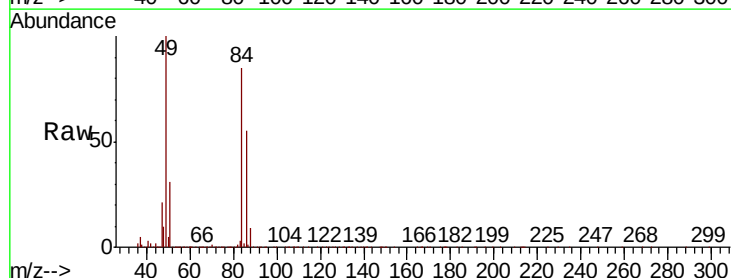
Instrument :
MSVOA_X
ClientSampleId :
OK-03-121118

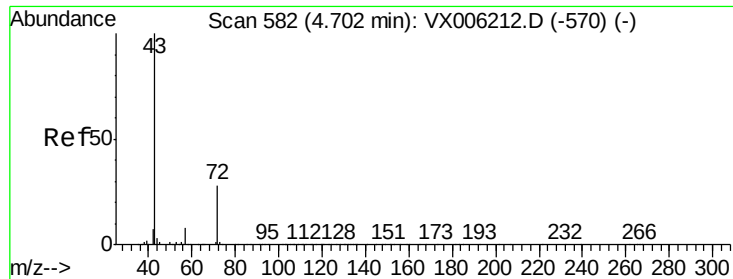
Tot Ion: 43 Resp: 7650
Ion Ratio Lower Upper
43 100
74 25.0 17.9 26.9



#20
Methylene Chloride
Concen: 56.567 ug/l
RT: 2.86 min Scan# 280
Delta R.T. -0.00 min
Lab File: VX006477.D
Acq: 13 Dec 2018 06:26

Tgt Ion: 84 Resp: 380328
Ion Ratio Lower Upper
84 100
49 118.1 102.2 153.4
51 36.4 31.1 46.7
86 64.9 53.7 80.5

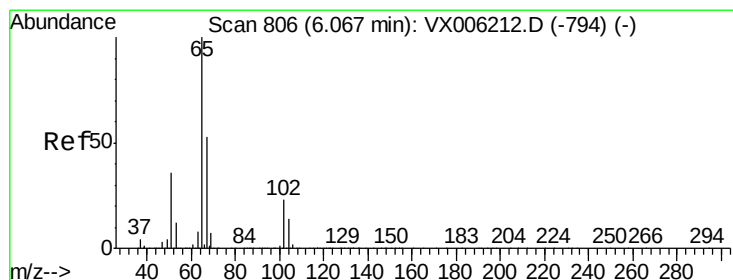
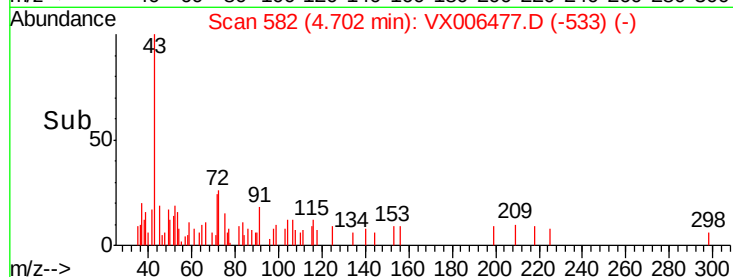
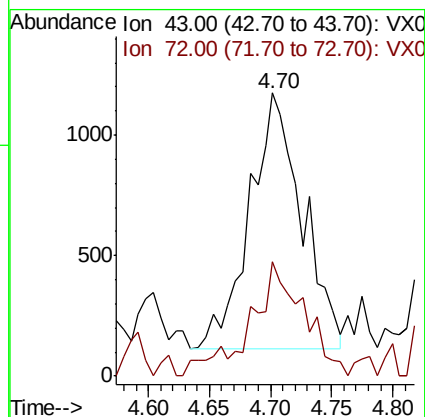
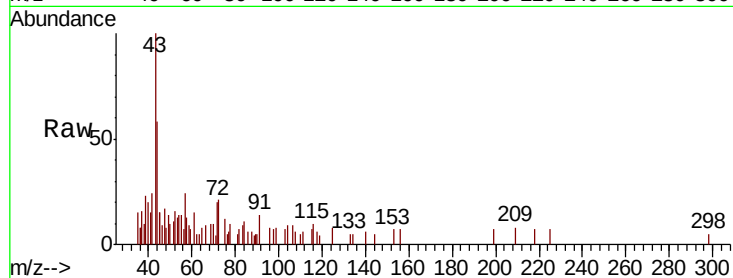




#25
2-Butanone
Concen: 0.702 ug/l
RT: 4.70 min Scan# 582
Delta R.T. -0.00 min
Lab File: VX006477.D
Acq: 13 Dec 2018 06:26

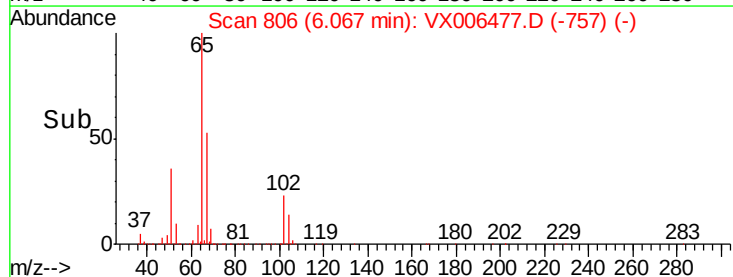
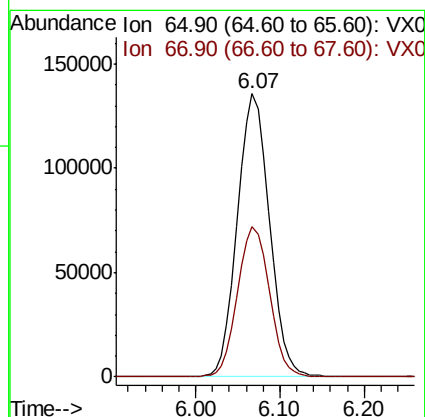
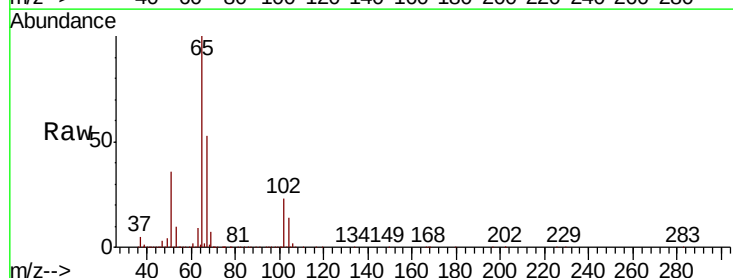
Instrument :
MSVOA_X
ClientSampled :
OK-03-121118

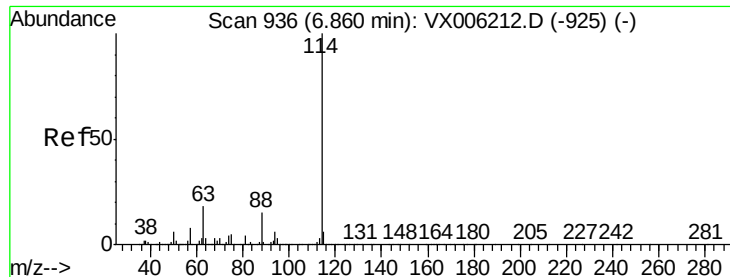
Tot Ion: 43 Resp: 3165
Ion Ratio Lower Upper
43 100
72 39.0 22.6 33.8#



#33
1,2-Dichloroethane-d4
Concen: 51.922 ug/l
RT: 6.07 min Scan# 806
Delta R.T. -0.00 min
Lab File: VX006477.D
Acq: 13 Dec 2018 06:26

Tgt Ion: 65 Resp: 349522
Ion Ratio Lower Upper
65 100
67 53.1 0.0 107.2

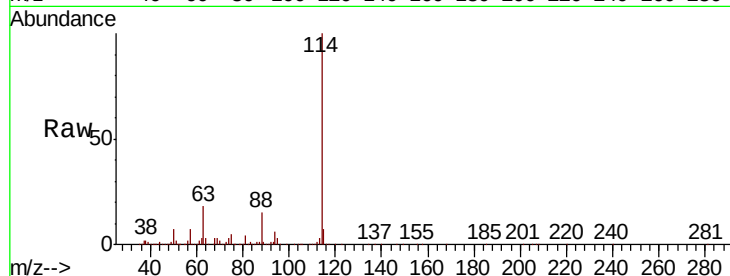




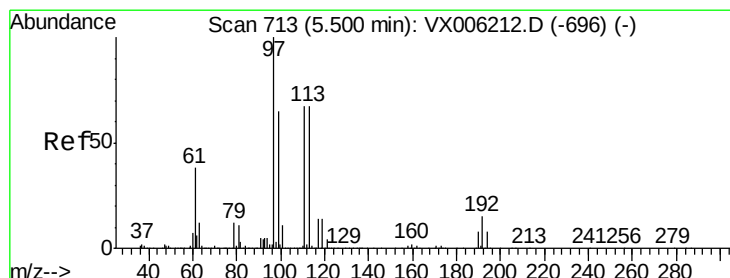
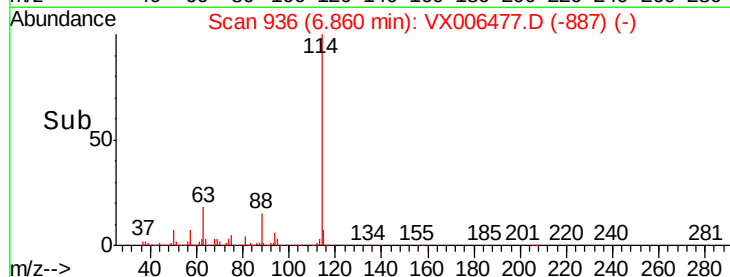
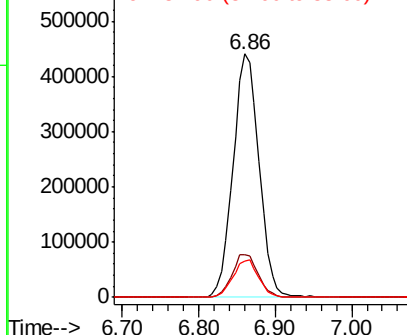
#34
 1,4-Difluorobenzene
 Concen: 50.000 ug/l
 RT: 6.86 min Scan# 936
 Delta R.T. -0.00 min
 Lab File: VX006477.D
 Acq: 13 Dec 2018 06:26

Instrument :
 MSVOA_X
 ClientSampleId :
 OK-03-121118

Tot Ion:114 Resp: 1038438
 Ion Ratio Lower Upper
 114 100
 63 17.6 0.0 36.6
 88 14.8 0.0 29.0

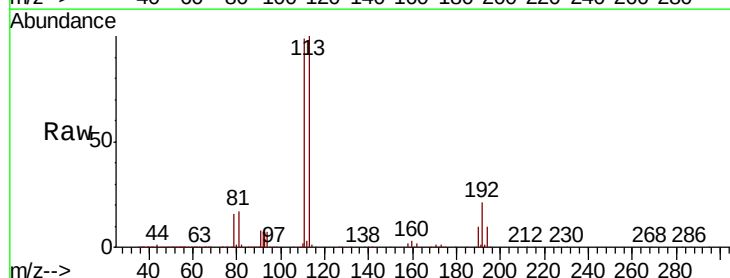


Abundance Ion 113.90 (113.60 to 114.60): V
 600000 Ion 63.00 (62.70 to 63.70): VX0
 500000 Ion 87.90 (87.60 to 88.60): VX0

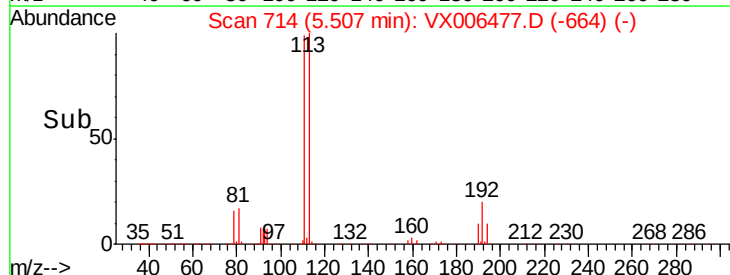
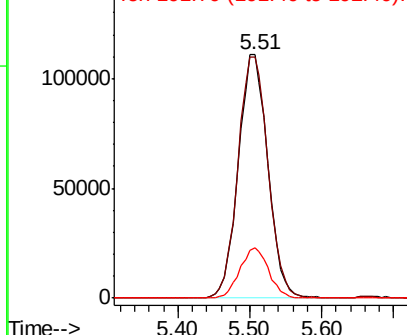


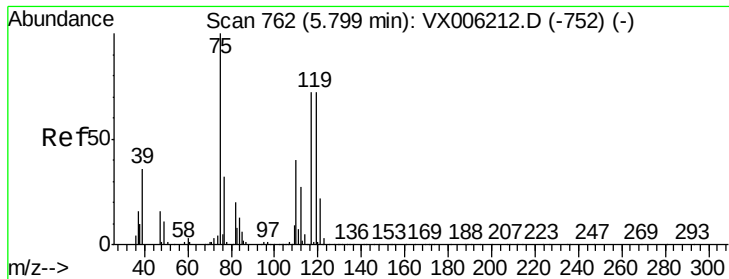
#35
 Dibromofluoromethane
 Concen: 46.940 ug/l
 RT: 5.51 min Scan# 714
 Delta R.T. 0.01 min
 Lab File: VX006477.D
 Acq: 13 Dec 2018 06:26

Tgt Ion:113 Resp: 315597
 Ion Ratio Lower Upper
 113 100
 111 101.1 81.1 121.7
 192 20.2 18.2 27.2



Abundance Ion 112.80 (112.50 to 113.50): V
 150000 Ion 110.80 (110.50 to 111.50): V
 100000 Ion 191.70 (191.40 to 192.40): V

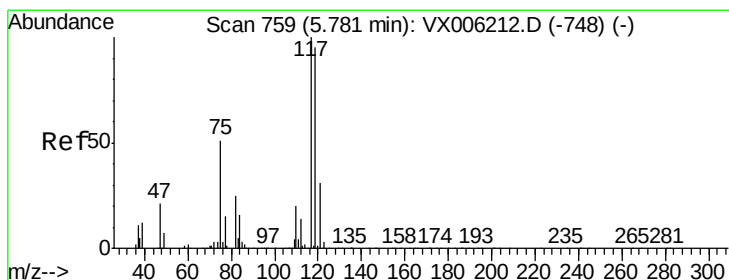
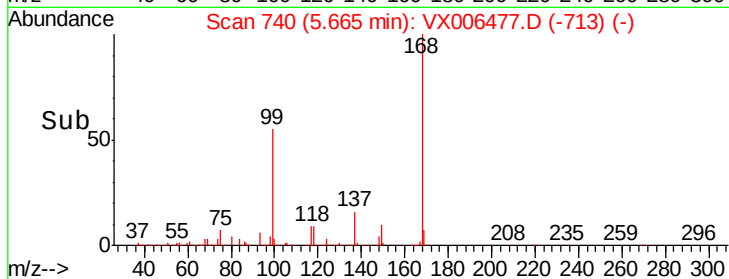
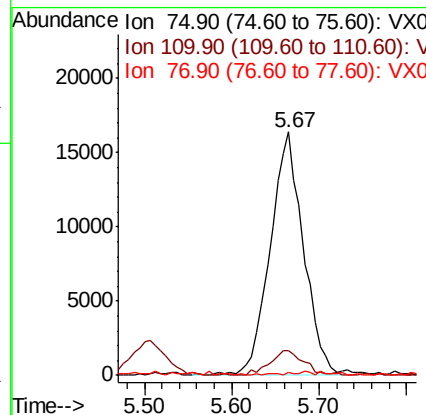
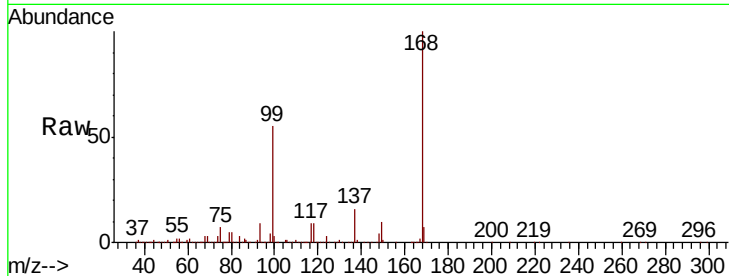




#36
 1,1-Dichloropropene
 Concen: 4.969 ug/l
 RT: 5.67 min Scan# 740
 Delta R.T. -0.13 min
 Lab File: VX006477.D
 Acq: 13 Dec 2018 06:26

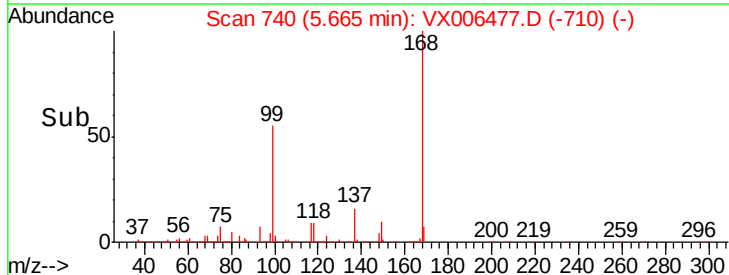
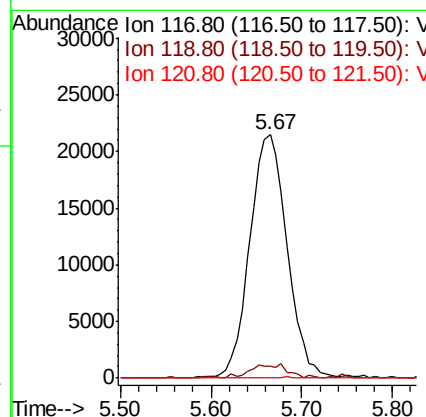
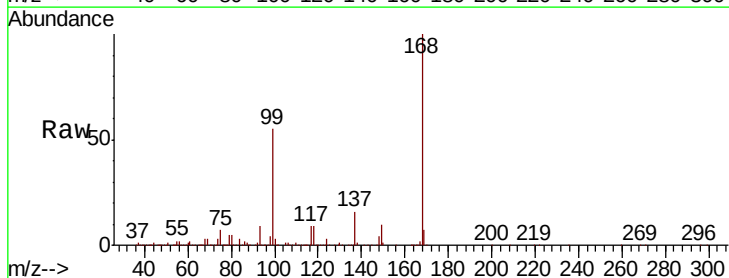
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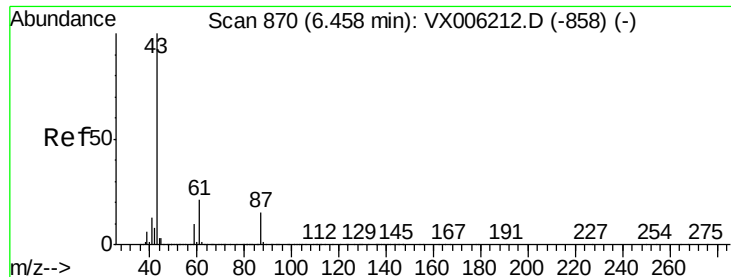
Tot Ion	Ratio	Lower	Upper
75	100		
110	10.6	20.4	61.3#
77	0.8	24.9	37.3#



#38
 Carbon Tetrachloride
 Concen: 5.965 ug/l
 RT: 5.67 min Scan# 740
 Delta R.T. -0.12 min
 Lab File: VX006477.D
 Acq: 13 Dec 2018 06:26

Tgt Ion	Ratio	Lower	Upper
117	100		
119	4.8	75.8	113.8#
121	0.4	24.6	37.0#





#43

Isopropyl Acetate

Concen: 1.818 ug/l

RT: 6.46 min Scan# 871

Delta R.T. 0.01 min

Lab File: VX006477.D

Acq: 13 Dec 2018 06:26

Instrument :

MSVOA_X

ClientSampleId :

OK-03-121118

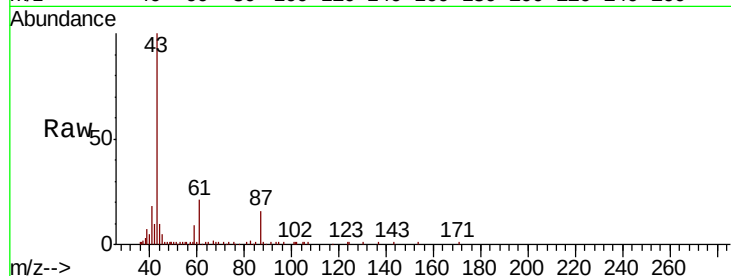
Tot Ion: 43 Resp: 29683

Ion Ratio Lower Upper

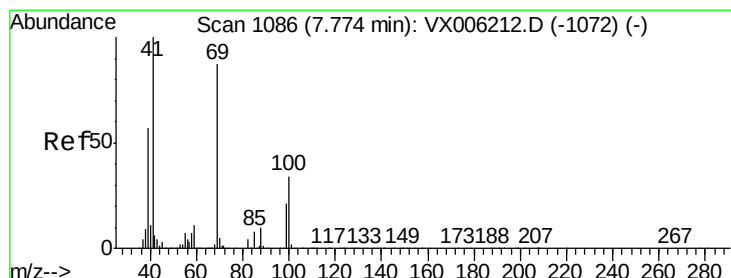
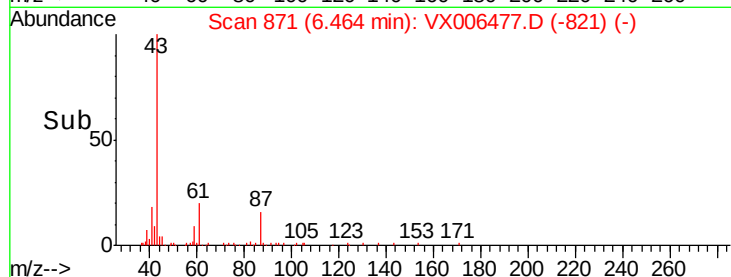
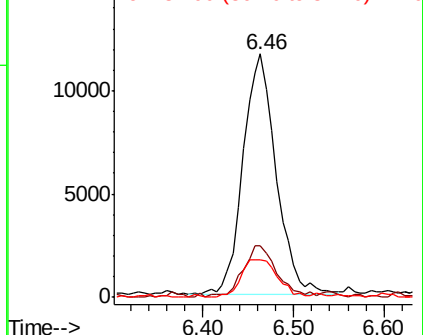
43 100

61 22.0 16.8 25.2

87 17.2 11.9 17.9



Abundance Ion 43.00 (42.70 to 43.70): VX0
Ion 61.00 (60.70 to 61.70): VX0
Ion 87.00 (86.70 to 87.70): VX0



#48

Methyl methacrylate

Concen: 1.850 ug/l

RT: 7.68 min Scan# 1071

Delta R.T. -0.09 min

Lab File: VX006477.D

Acq: 13 Dec 2018 06:26

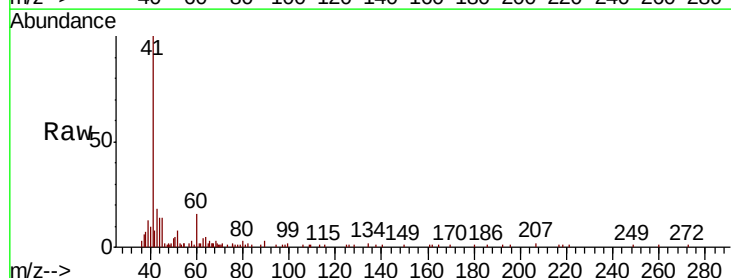
Tgt Ion: 41 Resp: 14693

Ion Ratio Lower Upper

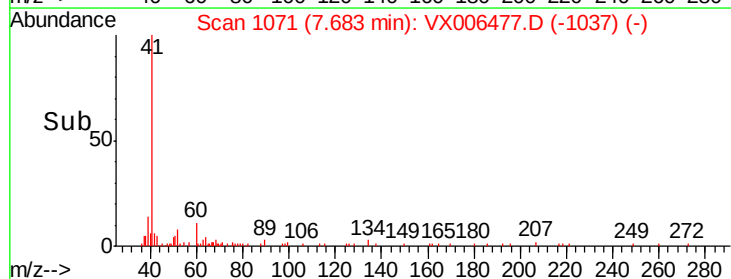
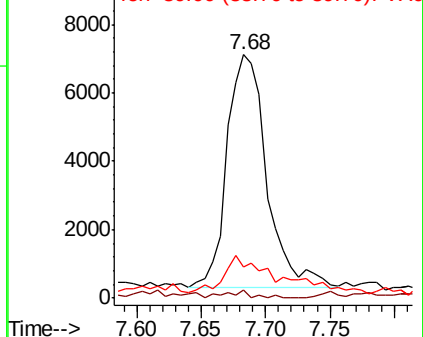
41 100

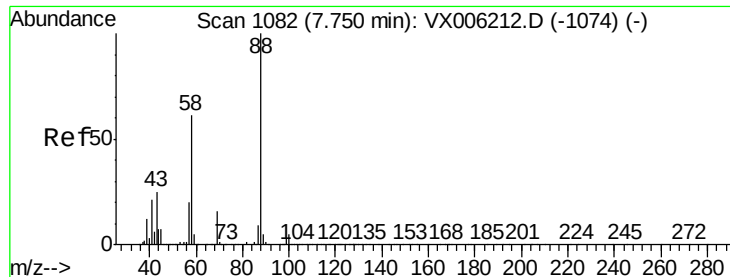
69 2.2 70.3 105.5#

39 0.0 45.3 67.9#



Abundance Ion 41.00 (40.70 to 41.70): VX0
Ion 69.00 (68.70 to 69.70): VX0
Ion 39.00 (38.70 to 39.70): VX0





#49

1,4-Dioxane

Concen: 0.424 ug/l

RT: 7.73 min Scan# 1078

Delta R.T. -0.02 min

Lab File: VX006477.D

Acq: 13 Dec 2018 06:26

Instrument :

MSVOA_X

ClientSampleId :

OK-03-121118

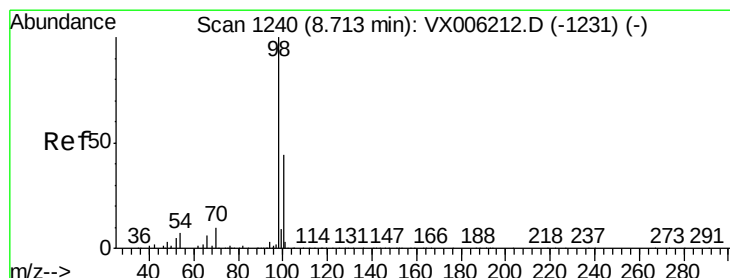
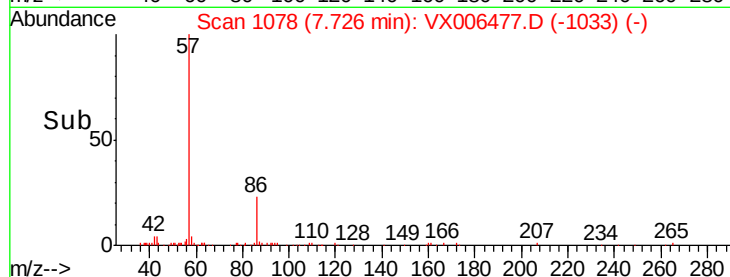
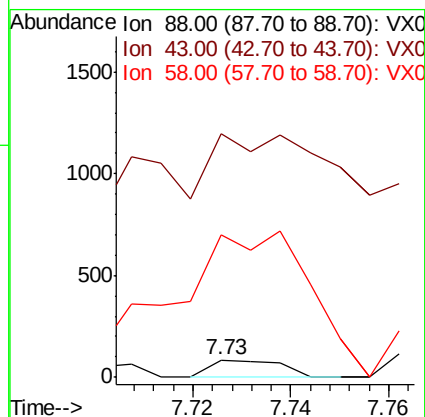
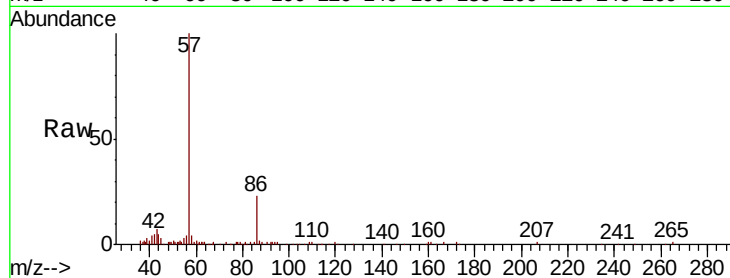
Tot Ion: 88 Resp: 83

Ion Ratio Lower Upper

88 100

43 0.0 23.2 34.8#

58 1834.9 51.4 77.0#



#50

Toluene-d8

Concen: 50.597 ug/l

RT: 8.71 min Scan# 1240

Delta R.T. -0.00 min

Lab File: VX006477.D

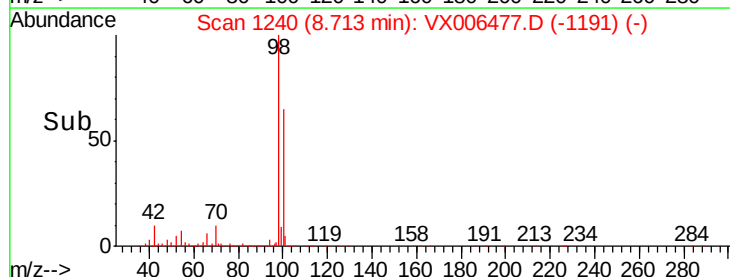
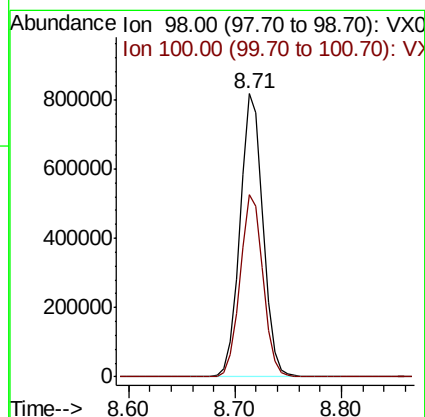
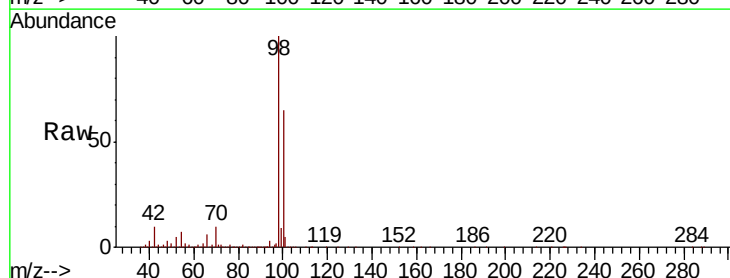
Acq: 13 Dec 2018 06:26

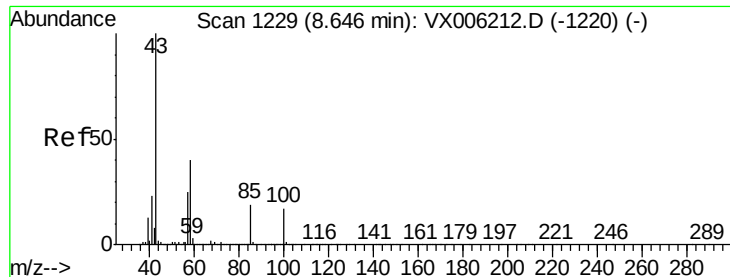
Tgt Ion: 98 Resp: 1237404

Ion Ratio Lower Upper

98 100

100 64.4 52.2 78.2





#51

4-Methyl-2-Pentanone

Concen: 15.490 ug/l

RT: 8.62 min Scan# 1224

Delta R.T. -0.03 min

Lab File: VX006477.D

Acq: 13 Dec 2018 06:26

Instrument :

MSVOA_X

ClientSampled :

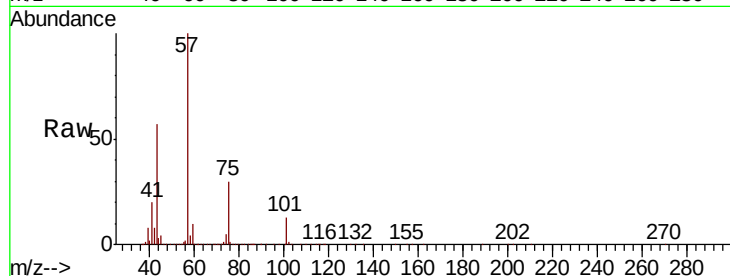
OK-03-121118

Tot Ion: 43 Resp: 147234

Ion Ratio Lower Upper

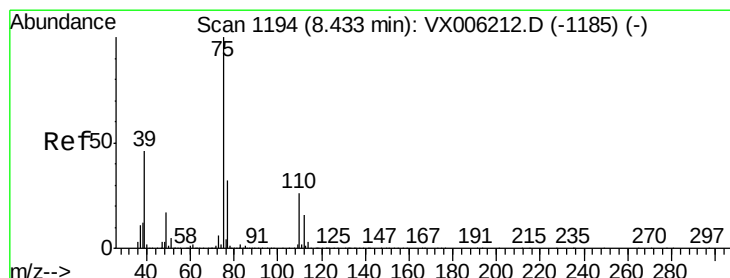
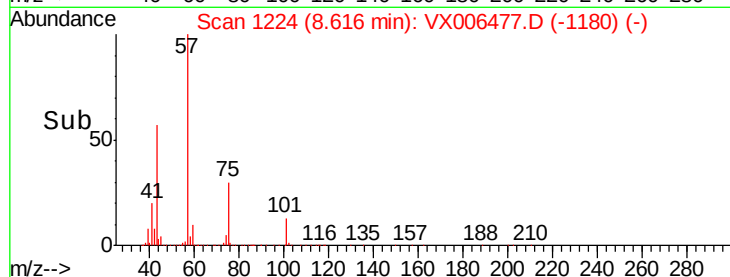
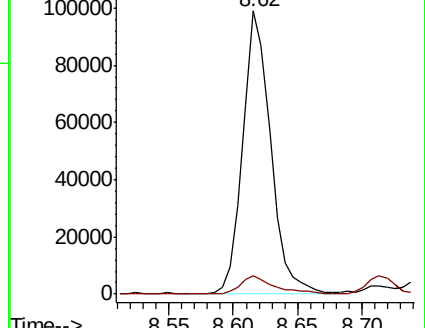
43 100

58 8.0 31.3 46.9#



Abundance Ion 43.00 (42.70 to 43.70): VX0

Ion 58.00 (57.70 to 58.70): VX0



#54

cis-1,3-Dichloropropene

Concen: 7.077 ug/l

RT: 8.62 min Scan# 1225

Delta R.T. 0.19 min

Lab File: VX006477.D

Acq: 13 Dec 2018 06:26

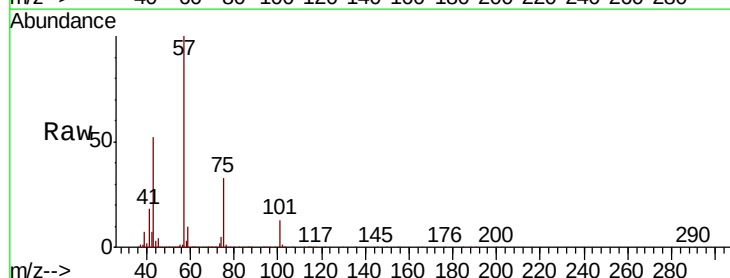
Tgt Ion: 75 Resp: 80014

Ion Ratio Lower Upper

75 100

77 0.5 25.6 38.4#

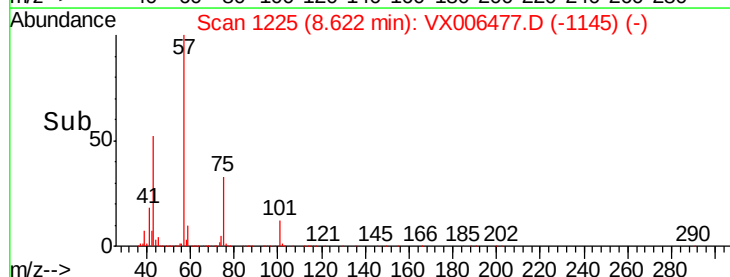
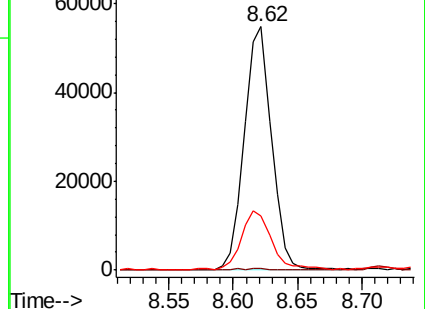
39 22.1 36.5 54.7#

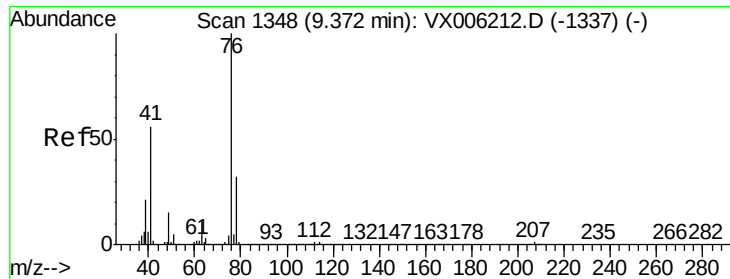


Abundance Ion 74.90 (74.60 to 75.60): VX0

Ion 76.90 (76.60 to 77.60): VX0

Ion 39.00 (38.70 to 39.70): VX0





#57

1,3-Dichloropropane

Concen: 1.683 ug/l

RT: 9.54 min Scan# 1376

Delta R.T. 0.17 min

Lab File: VX006477.D

Acq: 13 Dec 2018 06:26

Instrument :

MSVOA_X

ClientSampleId :

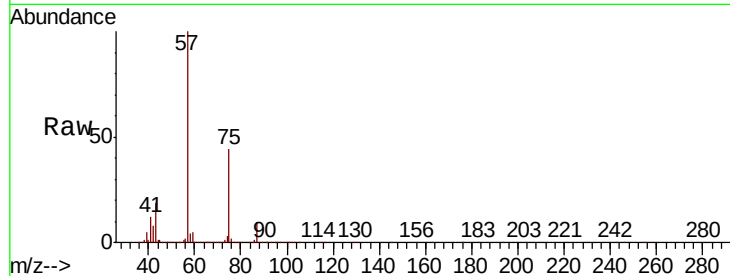
OK-03-121118

Tot Ion: 76 Resp: 18627

Ion Ratio Lower Upper

76 100

78 2.9 26.1 39.1#



Abundance Ion 75.90 (75.60 to 76.60): VX0

Ion 77.90 (77.60 to 78.60): VX0

15000

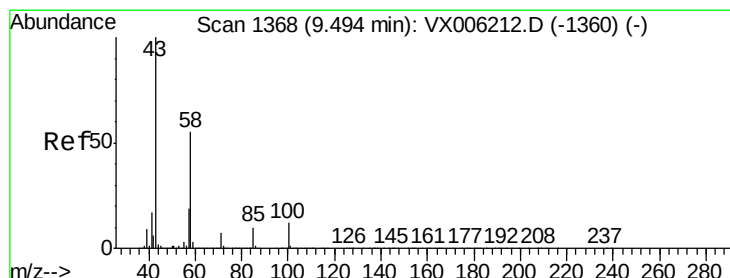
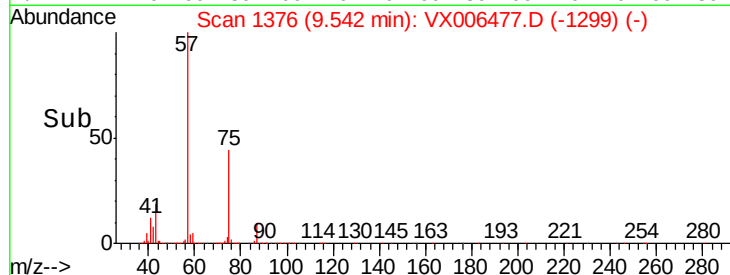
10000

5000

0

9.50 9.55 9.60

Time-->



#59

2-Hexanone

Concen: 31.125 ug/l

RT: 9.54 min Scan# 1376

Delta R.T. 0.05 min

Lab File: VX006477.D

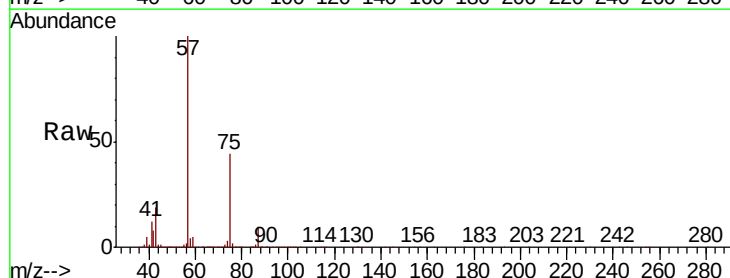
Acq: 13 Dec 2018 06:26

Tgt Ion: 43 Resp: 226027

Ion Ratio Lower Upper

43 100

58 19.9 27.7 83.1#



Abundance Ion 43.00 (42.70 to 43.70): VX0

Ion 58.00 (57.70 to 58.70): VX0

200000

150000

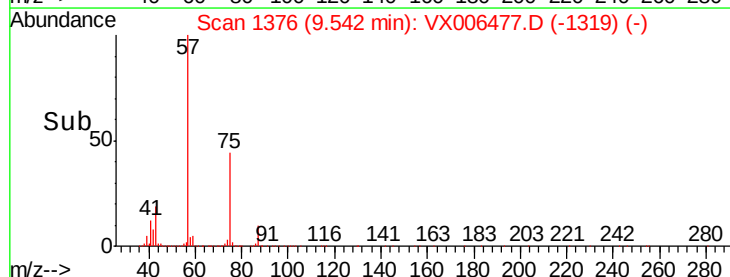
100000

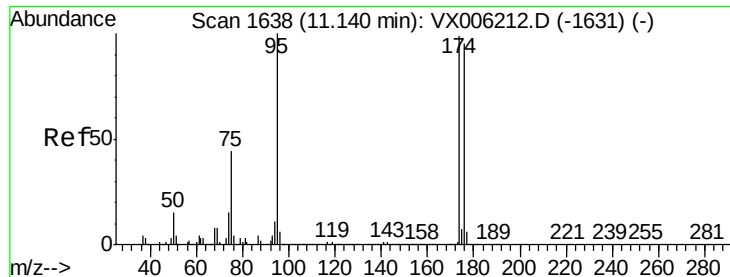
50000

0

9.45 9.50 9.55 9.60

Time-->





#62

4-Bromofluorobenzene

Concen: 49.487 ug/l

RT: 11.13 min Scan# 1637

Delta R.T. -0.01 min

Lab File: VX006477.D

Acq: 13 Dec 2018 06:26

Instrument :

MSVOA_X

ClientSampleId :

OK-03-121118

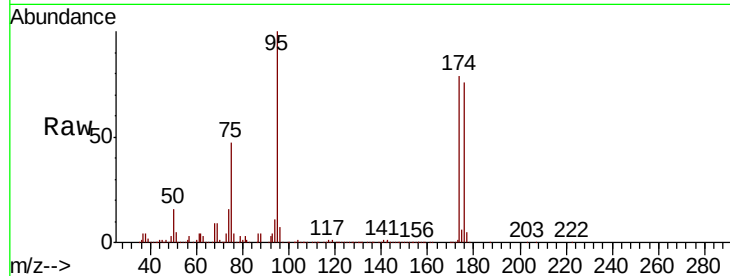
Tot Ion: 95 Resp: 456063

Ion Ratio Lower Upper

95 100

174 87.5 0.0 187.0

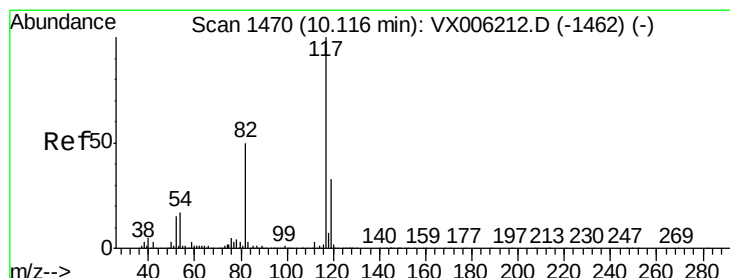
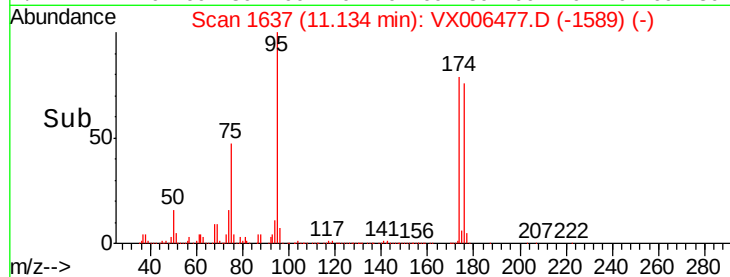
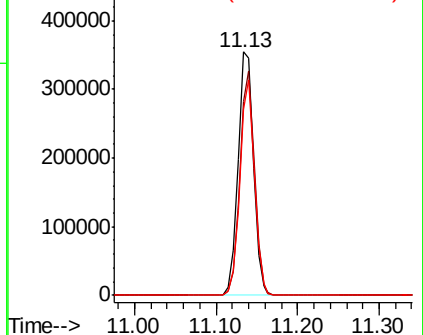
176 83.6 0.0 181.8



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: 10.12 min Scan# 1470

Delta R.T. -0.00 min

Lab File: VX006477.D

Acq: 13 Dec 2018 06:26

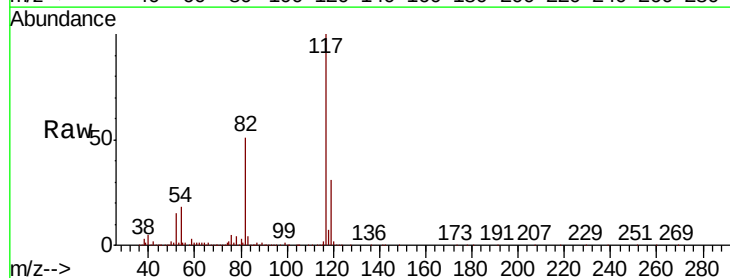
Tgt Ion: 117 Resp: 960009

Ion Ratio Lower Upper

117 100

82 50.5 39.6 59.4

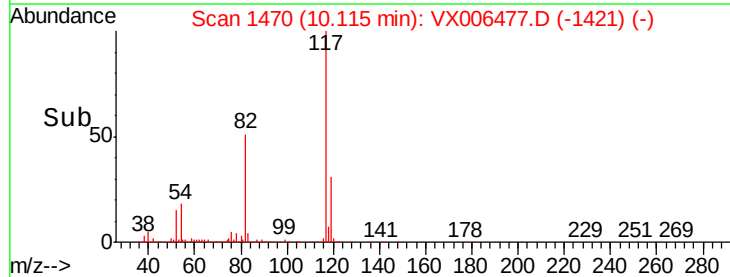
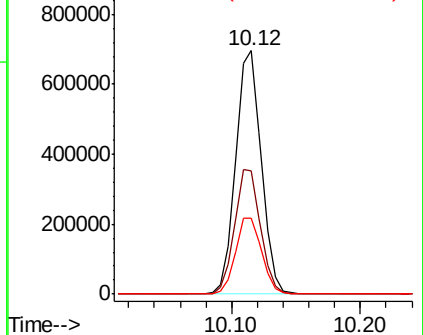
119 31.4 26.3 39.5

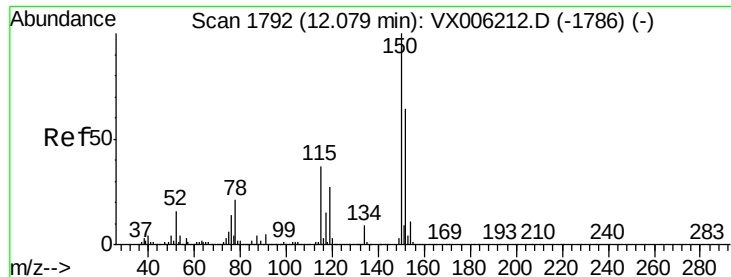


Abundance Ion 116.90 (116.60 to 117.60): V

Ion 82.00 (81.70 to 82.70): VX0

Ion 118.90 (118.60 to 119.60): V

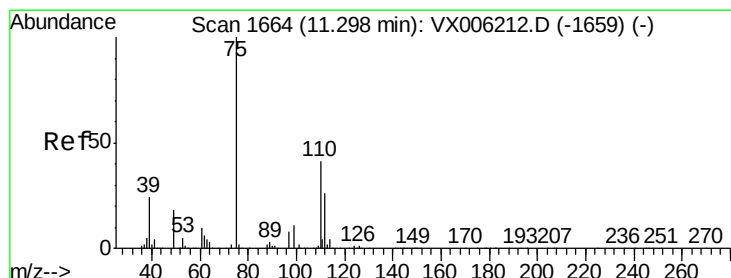
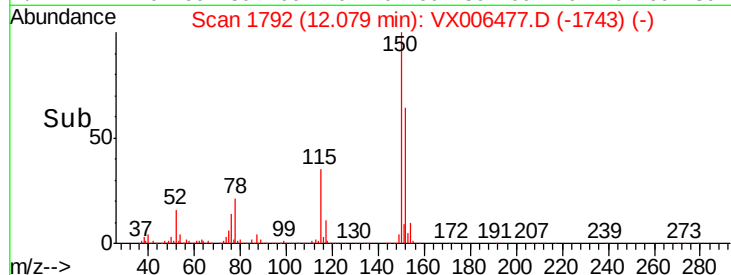
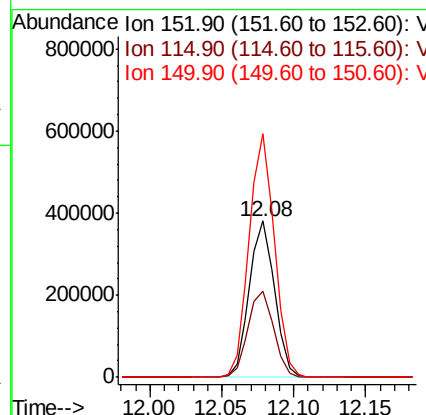
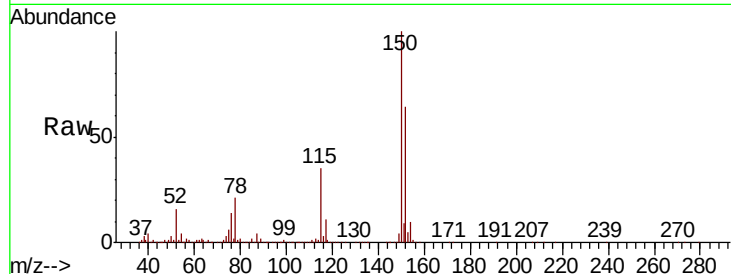




#72
 1,4-Dichlorobenzene-d4
 Concen: 50.000 ug/l
 RT: 12.08 min Scan# 1792
 Delta R.T. -0.00 min
 Lab File: VX006477.D
 Acq: 13 Dec 2018 06:26

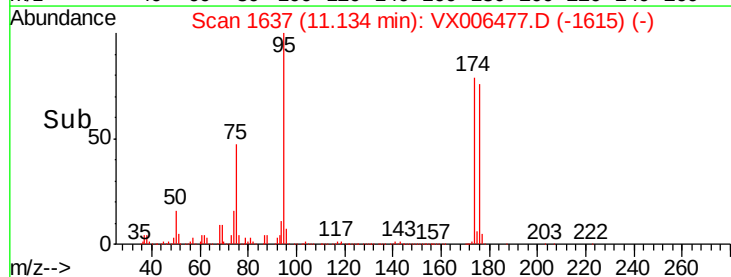
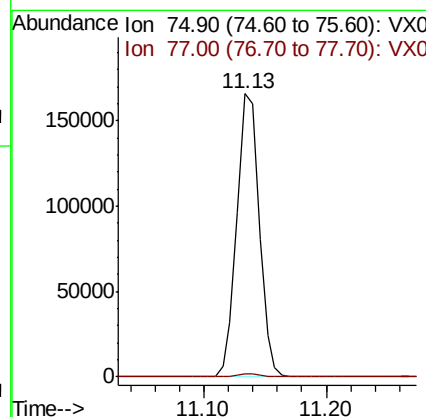
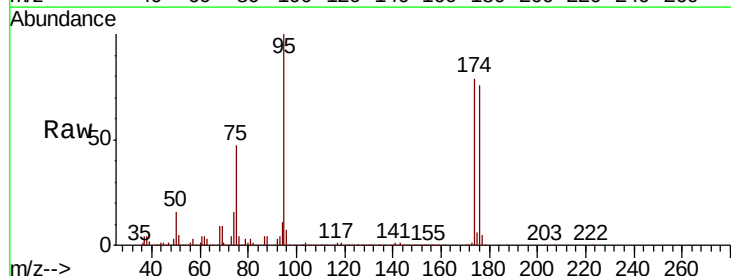
Instrument :
 MSVOA_X
 ClientSampleId :
 OK-03-121118

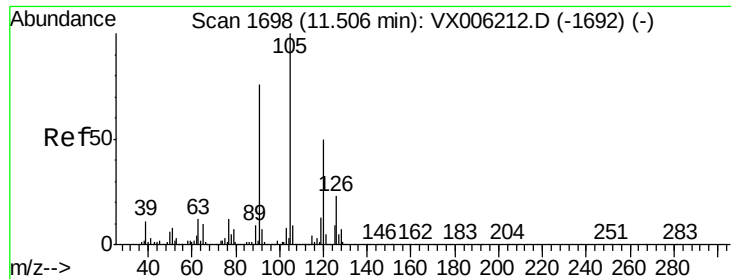
Tot Ion	Ratio	Lower	Upper
152	100		
115	56.5	39.0	116.9
150	156.3	0.0	345.8



#76
 1,2,3-Trichloropropane
 Concen: 23.554 ug/l
 RT: 11.13 min Scan# 1637
 Delta R.T. -0.16 min
 Lab File: VX006477.D
 Acq: 13 Dec 2018 06:26

Tgt Ion	Ratio	Lower	Upper
75	100		
77	1.4	19.9	59.7#

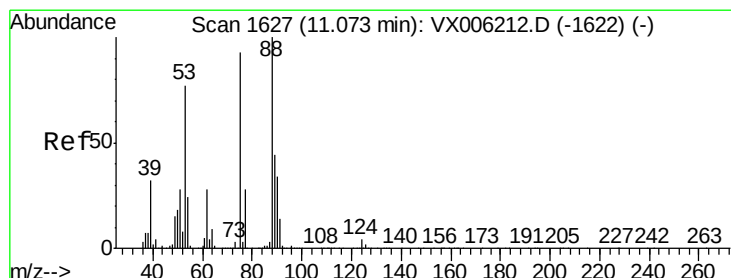
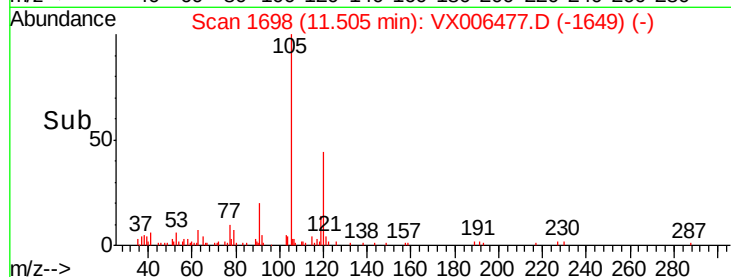
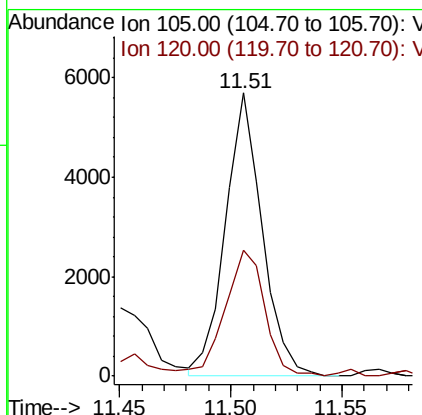
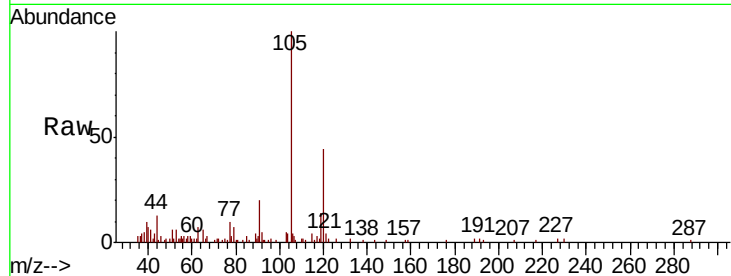




#80
 1,3,5-Trimethylbenzene
 Concen: 0.247 ug/l
 RT: 11.51 min Scan# 1698
 Delta R.T. -0.00 min
 Lab File: VX006477.D
 Acq: 13 Dec 2018 06:26

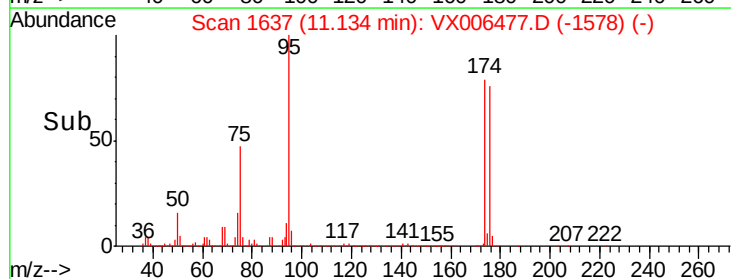
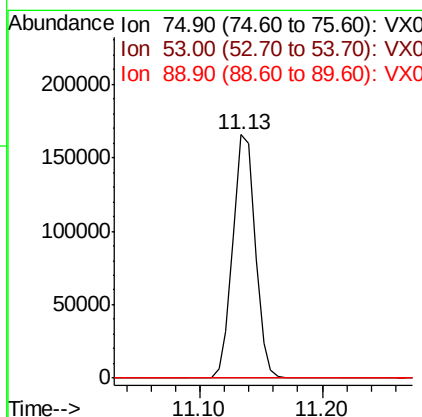
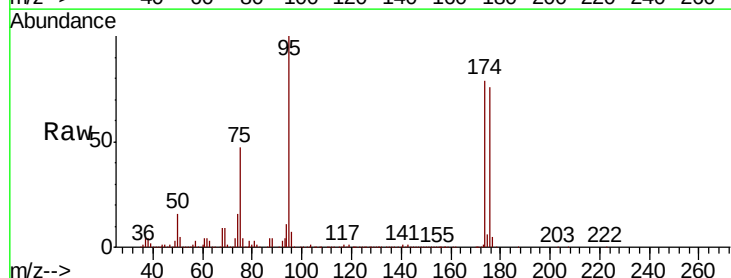
Instrument :
 MSVOA_X
 ClientSampleId :
 OK-03-121118

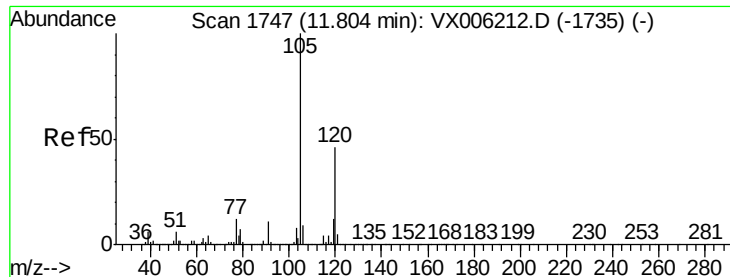
Tot Ion:105 Resp: 6538
 Ion Ratio Lower Upper
 105 100
 120 48.2 25.4 76.0



#81
 trans-1,4-Dichloro-2-butene
 Concen: 55.275 ug/l
 RT: 11.13 min Scan# 1637
 Delta R.T. 0.06 min
 Lab File: VX006477.D
 Acq: 13 Dec 2018 06:26

Tgt Ion: 75 Resp: 209846
 Ion Ratio Lower Upper
 75 100
 53 0.0 64.4 96.6#
 89 0.0 44.2 66.4#

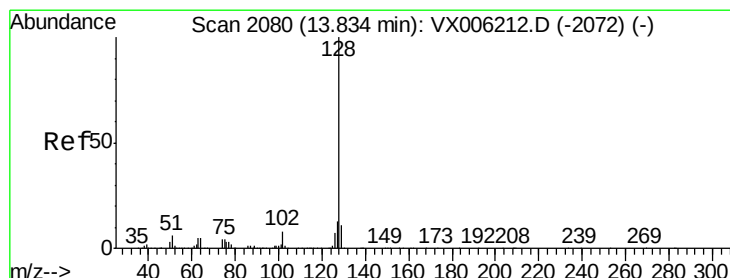
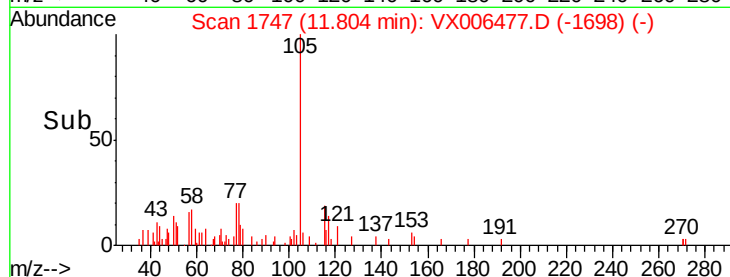
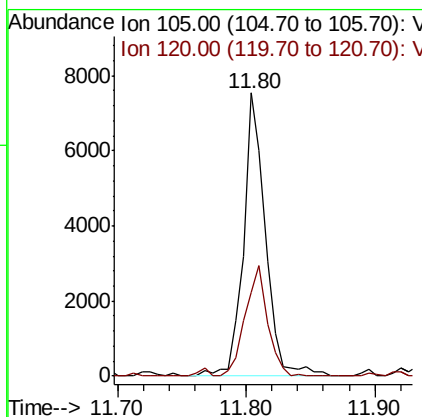
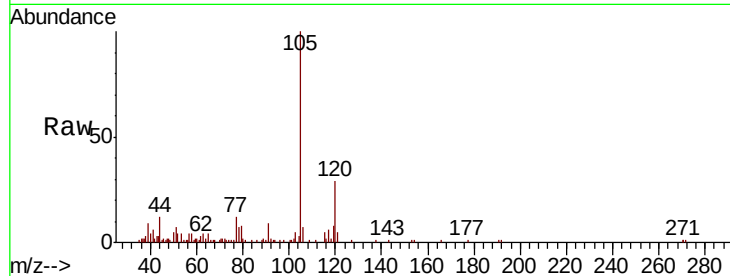




#84
 1,2,4-Trimethylbenzene
 Concen: 0.323 ug/l
 RT: 11.80 min Scan# 1747
 Delta R.T. -0.00 min
 Lab File: VX006477.D
 Acq: 13 Dec 2018 06:26

Instrument :
 MSVOA_X
 ClientSampleId :
 OK-03-121118

Tot Ion:105 Resp: 8857
 Ion Ratio Lower Upper
 105 100
 120 39.4 23.4 70.0



#95
 Naphthalene
 Concen: 2.300 ug/l
 RT: 13.83 min Scan# 2080
 Delta R.T. -0.00 min
 Lab File: VX006477.D
 Acq: 13 Dec 2018 06:26

Tgt Ion:128 Resp: 81525
 Ion Ratio Lower Upper
 128 100
 127 12.8 10.2 15.4
 129 11.7 8.9 13.3

