

Data Path : Z:\VOASRV\HPCHEM1\MSVOA_X\DATA\VX073019\
 Data File : VX011209.D
 Acq On : 30 Jul 2019 20:47
 Operator : JC/SP
 Sample : K4048-03
 Misc : 5.0mL/MSVOA_X/WATER
 ALS Vial : 25 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :
 OWL-C6-GW

Quant Time: Jul 31 08:43:28 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_X\METHOD\82X071619W.M
 Quant Title : SW846 8260
 QLast Update : Wed Jul 24 05:39:23 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	5.67	168	219038	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	6.86	114	315255	50.00	ug/l	0.00
63) Chlorobenzene-d5	10.11	117	278329	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.08	152	132793	50.00	ug/l	0.00

System Monitoring Compounds	R.T.	QIon	Response	Conc	Units	Dev(Min)
33) 1,2-Dichloroethane-d4	6.06	65	107908	46.31	ug/l	0.00
Spiked Amount			Recovery	=	92.62%	
35) Dibromofluoromethane	5.50	113	93285	46.62	ug/l	0.00
Spiked Amount			Recovery	=	93.24%	
50) Toluene-d8	8.71	98	363733	48.47	ug/l	0.00
Spiked Amount			Recovery	=	96.94%	
62) 4-Bromofluorobenzene	11.13	95	122343	44.35	ug/l	0.00
Spiked Amount			Recovery	=	88.70%	

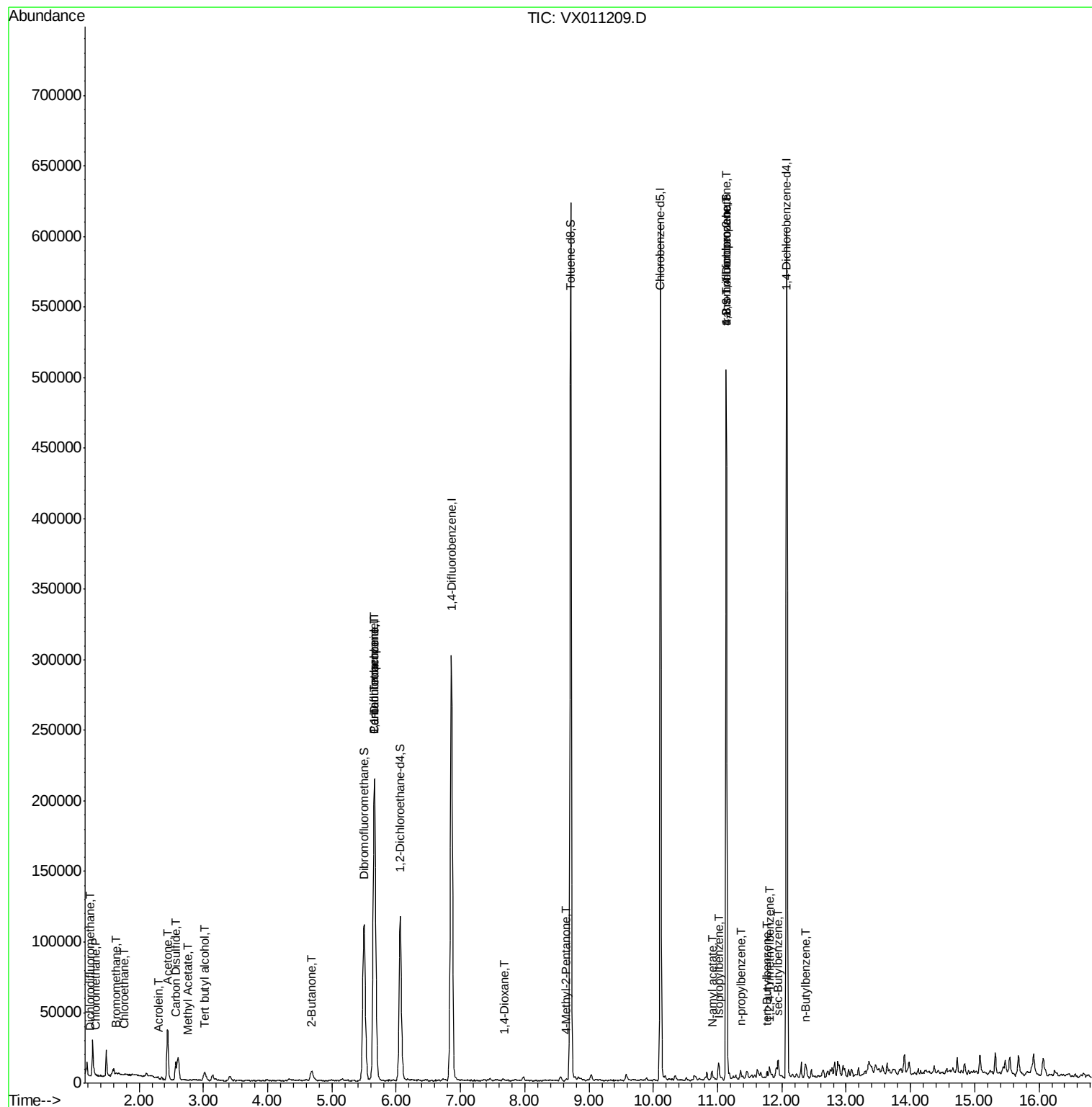
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
2) Dichlorodifluoromethane	1.23	85	21	0.555	ug/l #	43
3) Chloromethane	1.32	50	819	0.407	ug/l	91
5) Bromomethane	1.65	94	678	0.586	ug/l #	66
6) Chloroethane	1.78	64	267	0.204	ug/l #	44
11) Tert butyl alcohol	3.01	59	5113	9.422	ug/l #	80
13) Acrolein	2.30	56	333	1.062	ug/l	87
16) Acetone	2.44	43	38755	36.824	ug/l	95
17) Carbon Disulfide	2.57	76	17471	3.491	ug/l	98
18) Methyl Acetate	2.77	43	729	0.304	ug/l #	72
25) 2-Butanone	4.68	43	7303	4.834	ug/l	99
36) 1,1-Dichloropropene	5.66	75	14093	5.442	ug/l #	49
38) Carbon Tetrachloride	5.67	117	20604	7.636	ug/l #	17
49) 1,4-Dioxane	7.68	88	26	0.438	ug/l #	28
51) 4-Methyl-2-Pentanone	8.64	43	742	0.263	ug/l	89
73) Isopropylbenzene	11.02	105	5943	0.662	ug/l	97
74) N-amyl acetate	10.91	43	1314	0.383	ug/l #	23
76) 1,2,3-Trichloropropane	11.13	75	61760	25.773	ug/l #	35
78) n-propylbenzene	11.35	91	3794	0.383	ug/l	99
81) trans-1,4-Dichloro-2-buten	11.13	75	61760	64.079	ug/l #	11
83) tert-Butylbenzene	11.77	119	1762	0.239	ug/l	82
84) 1,2,4-Trimethylbenzene	11.81	105	1650	0.218	ug/l #	31
85) sec-Butylbenzene	11.94	105	5606	0.650	ug/l #	67
89) n-Butylbenzene	12.38	91	1476	0.216	ug/l	89

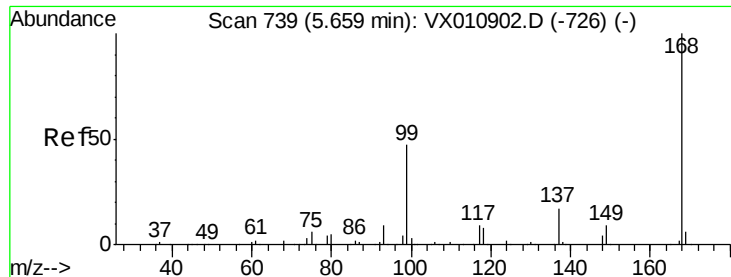
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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Quant Time: Jul 31 08:43:28 2019
Quant Method : Z:\V0ASRV\HPCHEM1\MSVOA_X\METHOD\82X071619W.M
Quant Title : SW846 8260
QLast Update : Wed Jul 24 05:39:23 2019
Response via : Initial Calibration





#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 5.67 min Scan# 740

Delta R.T. 0.01 min

Lab File: VX011209.D

Acq: 30 Jul 2019 20:47

Instrument :

MSVOA_X

ClientSampleId :

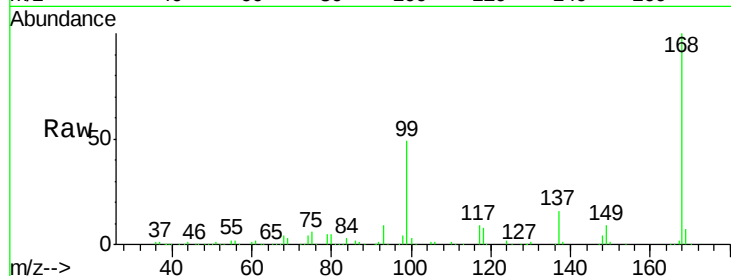
OWL-C6-GW

Tgt Ion:168 Resp: 219038

Ion Ratio Lower Upper

168 100

99 49.2 37.6 56.4



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VX0

5.67

80000

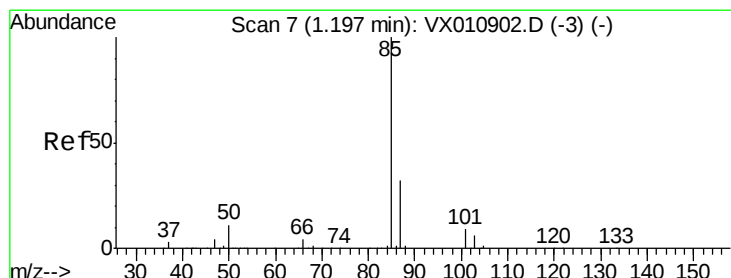
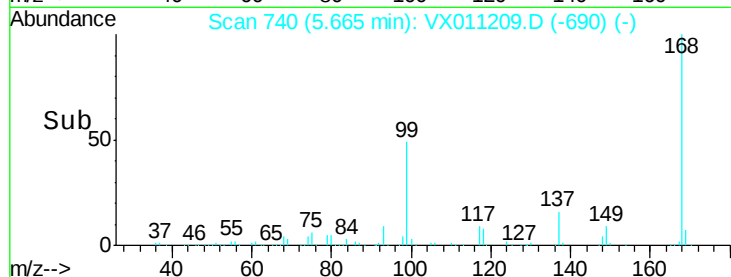
60000

40000

20000

0

Time--> 5.50 5.60 5.70 5.80



#2

Dichlorodifluoromethane

Concen: 0.555 ug/l

RT: 1.23 min Scan# 13

Delta R.T. 0.04 min

Lab File: VX011209.D

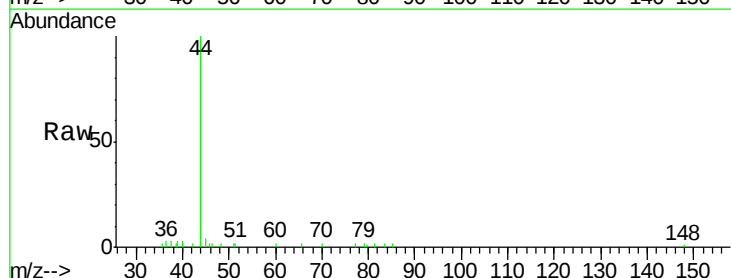
Acq: 30 Jul 2019 20:47

Tgt Ion: 85 Resp: 21

Ion Ratio Lower Upper

85 100

87 0.0 15.9 47.7#



Abundance Ion 84.90 (84.60 to 85.60): VX0

Ion 86.90 (86.60 to 87.60): VX0

1.23

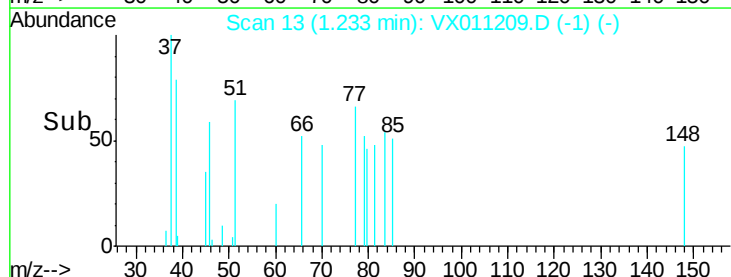
60

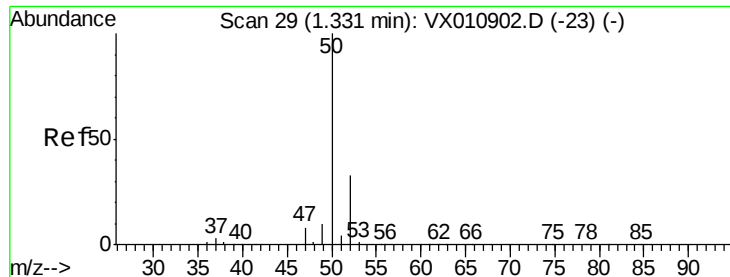
40

20

0

Time--> 1.21 1.22 1.23 1.24 1.25





#3

Chloromethane

Concen: 0.407 ug/l

RT: 1.32 min Scan# 28

Delta R.T. -0.01 min

Lab File: VX011209.D

Acq: 30 Jul 2019 20:47

Instrument :

MSVOA_X

ClientSampled :

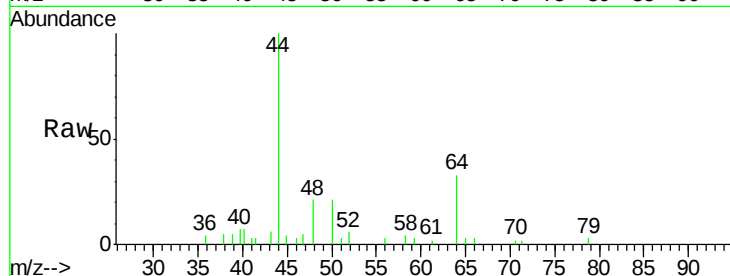
OWL-C6-GW

Tgt Ion: 50 Resp: 819

Ion Ratio Lower Upper

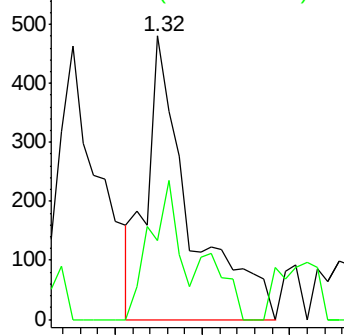
50 100

52 27.7 26.4 39.6

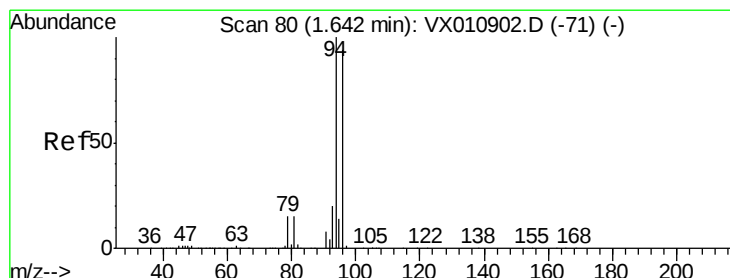
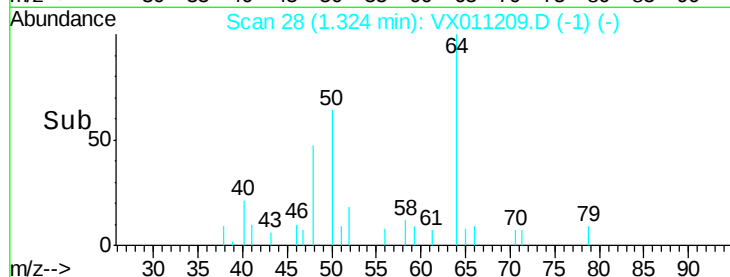


Abundance Ion 49.90 (49.60 to 50.60): VX0

Ion 51.90 (51.60 to 52.60): VX0



Time-->



#5

Bromomethane

Concen: 0.586 ug/l

RT: 1.65 min Scan# 81

Delta R.T. 0.01 min

Lab File: VX011209.D

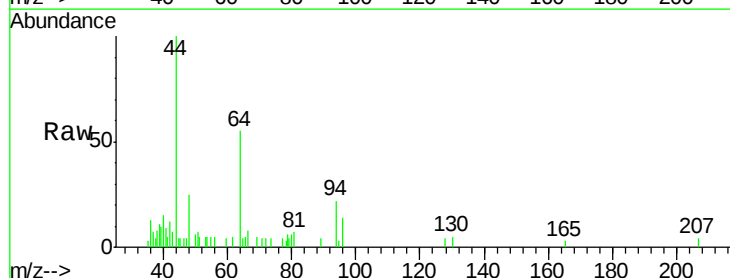
Acq: 30 Jul 2019 20:47

Tgt Ion: 94 Resp: 678

Ion Ratio Lower Upper

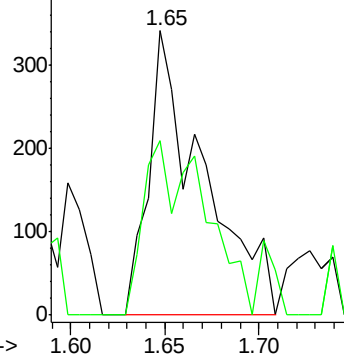
94 100

96 61.3 75.6 113.4#

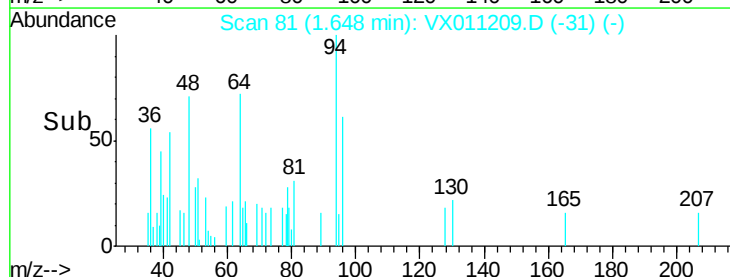


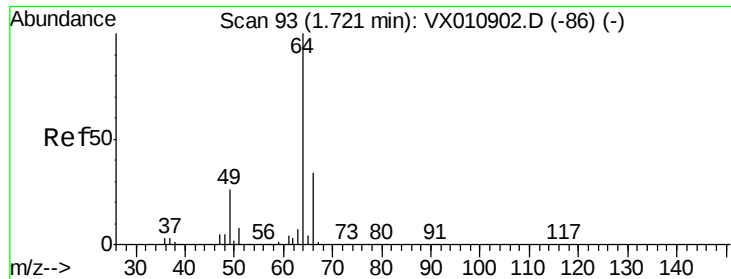
Abundance Ion 93.90 (93.60 to 94.60): VX0

Ion 95.90 (95.60 to 96.60): VX0



Time-->





#6

Chloroethane

Concen: 0.204 ug/l

RT: 1.78 min Scan# 103

Delta R.T. 0.06 min

Lab File: VX011209.D

Acq: 30 Jul 2019 20:47

Instrument :

MSVOA_X

ClientSampled :

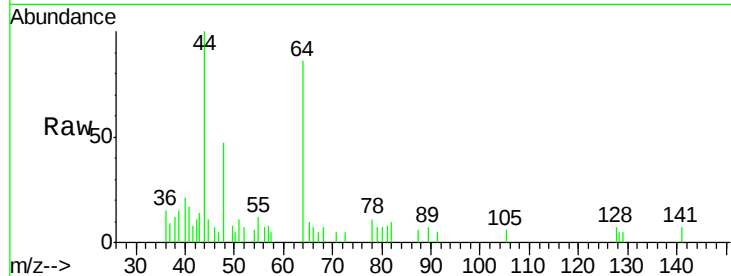
OWL-C6-GW

Tgt Ion: 64 Resp: 267

Ion Ratio Lower Upper

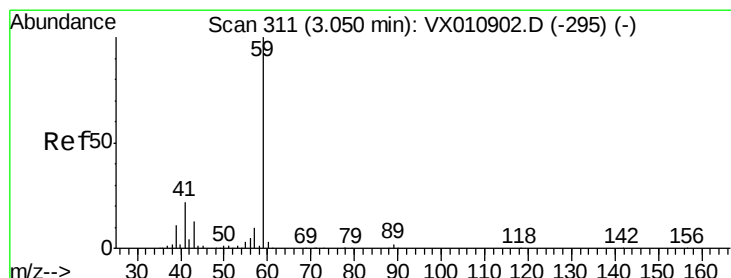
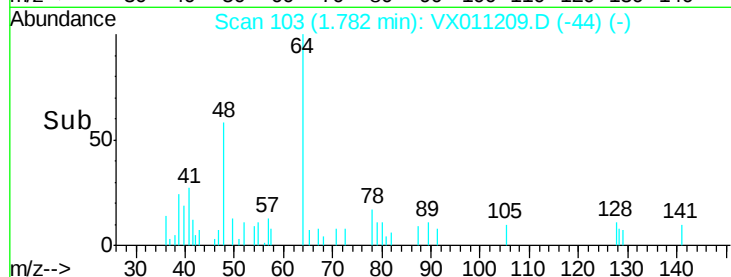
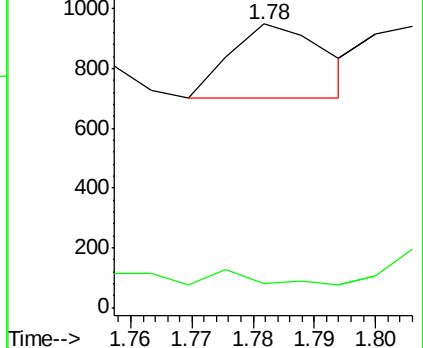
64 100

66 1.6 27.0 40.6#



Abundance Ion 63.90 (63.60 to 64.60): VX0

Ion 65.90 (65.60 to 66.60): VX0



#11

Tert butyl alcohol

Concen: 9.422 ug/l

RT: 3.01 min Scan# 305

Delta R.T. -0.04 min

Lab File: VX011209.D

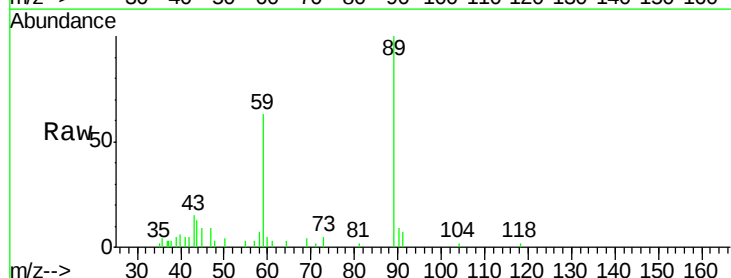
Acq: 30 Jul 2019 20:47

Tgt Ion: 59 Resp: 5113

Ion Ratio Lower Upper

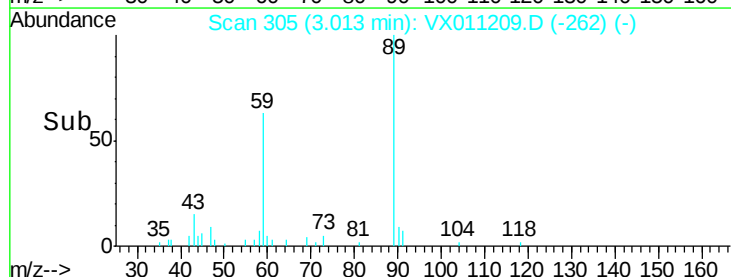
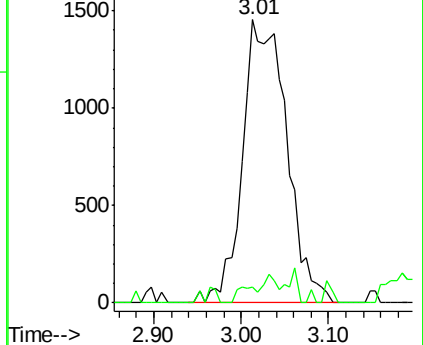
59 100

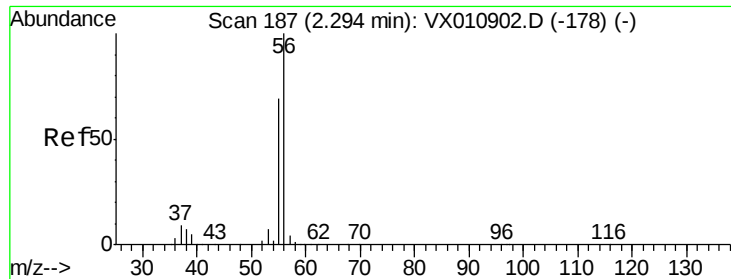
57 2.6 7.9 11.9#



Abundance Ion 59.00 (58.70 to 59.70): VX0

Ion 57.00 (56.70 to 57.70): VX0





#13

Acrolein

Concen: 1.062 ug/l

RT: 2.30 min Scan# 188

Delta R.T. 0.01 min

Lab File: VX011209.D

Acq: 30 Jul 2019 20:47

Instrument :

MSVOA_X

ClientSampled :

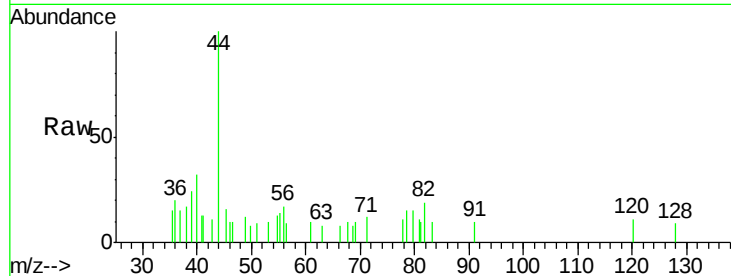
OWL-C6-GW

Tgt Ion: 56 Resp: 333

Ion Ratio Lower Upper

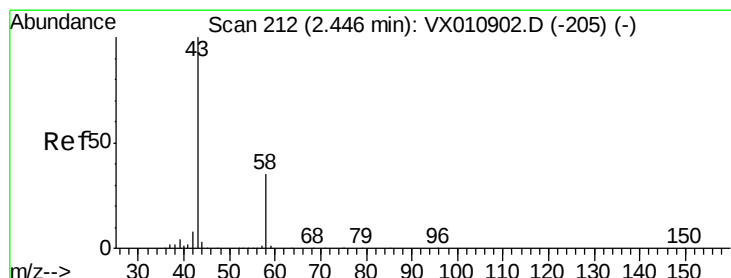
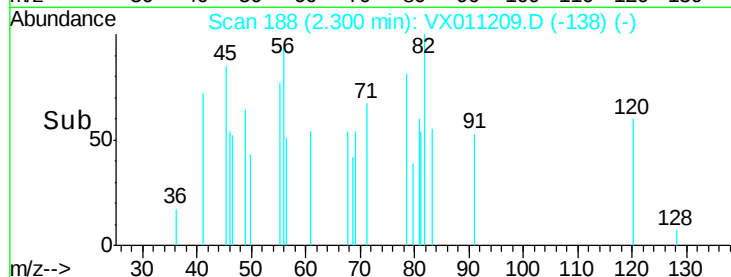
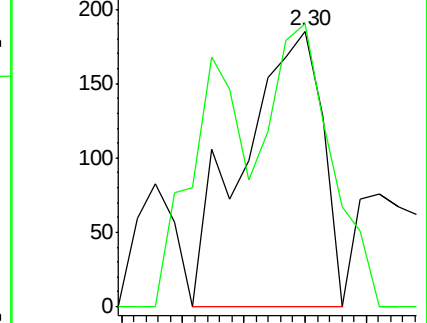
56 100

55 80.2 55.9 83.9



Abundance Ion 56.00 (55.70 to 56.70): VX0

Ion 55.00 (54.70 to 55.70): VX0



#16

Acetone

Concen: 36.824 ug/l

RT: 2.44 min Scan# 211

Delta R.T. -0.01 min

Lab File: VX011209.D

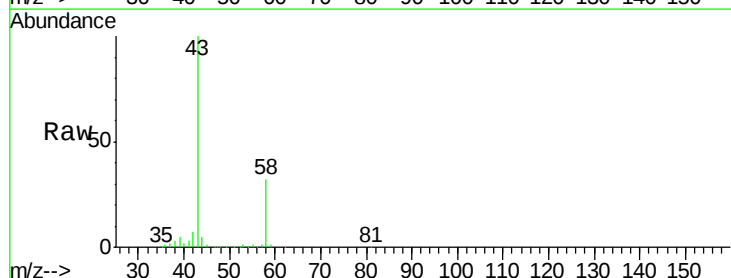
Acq: 30 Jul 2019 20:47

Tgt Ion: 43 Resp: 38755

Ion Ratio Lower Upper

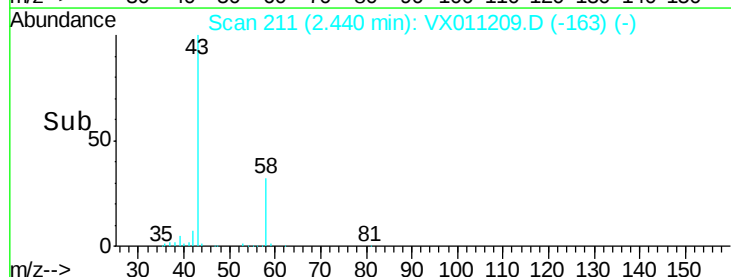
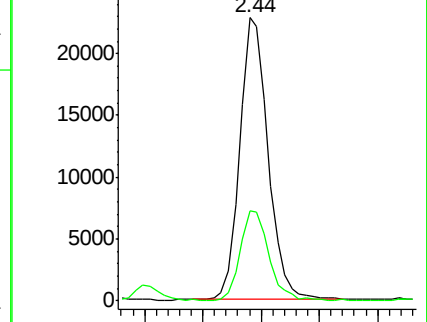
43 100

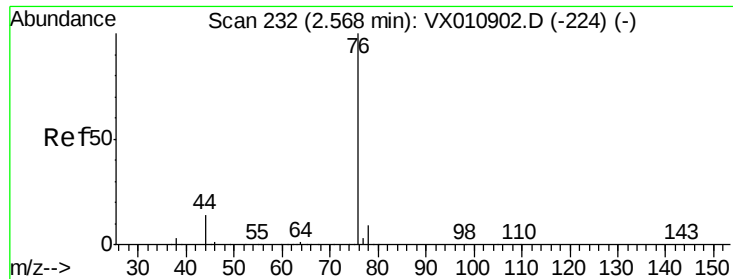
58 31.6 27.7 41.5



Abundance Ion 43.00 (42.70 to 43.70): VX0

Ion 58.00 (57.70 to 58.70): VX0

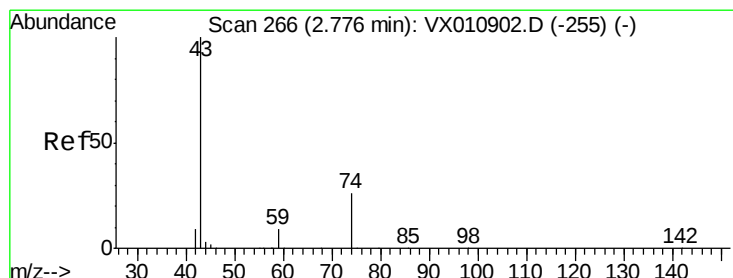
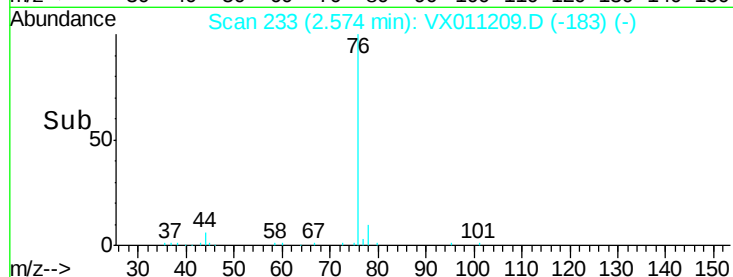
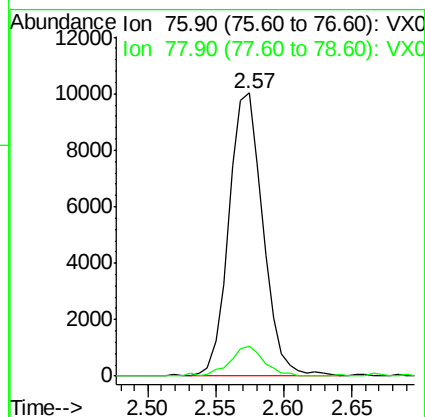
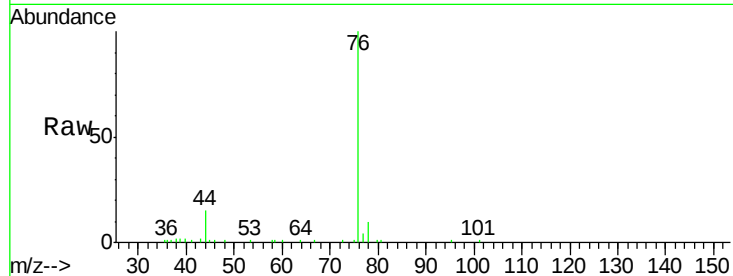




#17
Carbon Disulfide
Concen: 3.491 ug/l
RT: 2.57 min Scan# 233
Delta R.T. 0.01 min
Lab File: VX011209.D
Acq: 30 Jul 2019 20:47

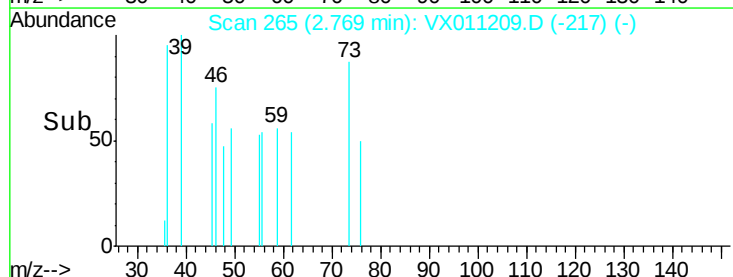
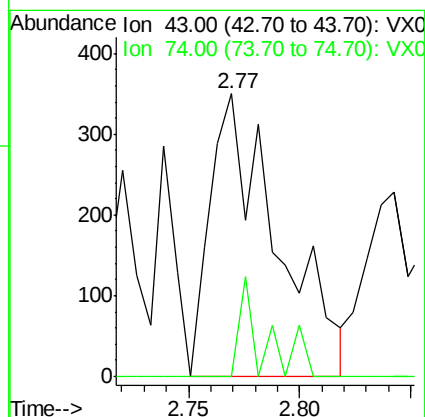
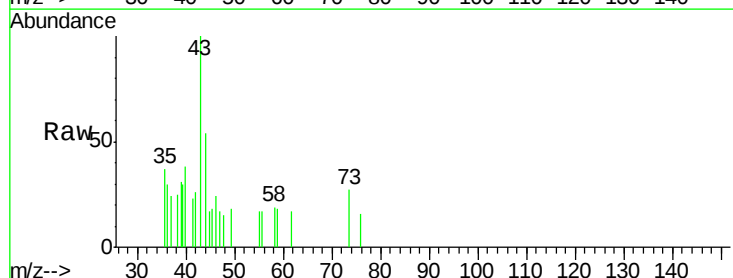
Instrument :
MSVOA_X
ClientSampled :
OWL-C6-GW

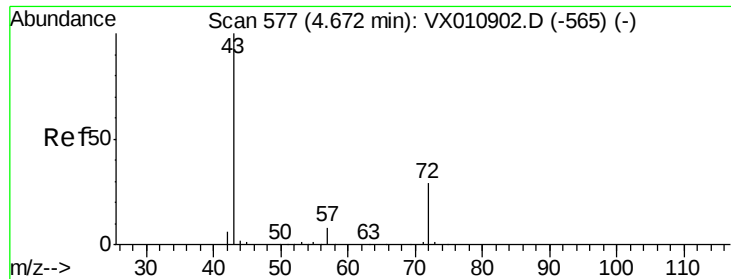
Tgt Ion: 76 Resp: 17471
Ion Ratio Lower Upper
76 100
78 9.9 7.4 11.0



#18
Methyl Acetate
Concen: 0.304 ug/l
RT: 2.77 min Scan# 265
Delta R.T. -0.01 min
Lab File: VX011209.D
Acq: 30 Jul 2019 20:47

Tgt Ion: 43 Resp: 729
Ion Ratio Lower Upper
43 100
74 12.6 21.5 32.3#





#25

2-Butanone

Concen: 4.834 ug/l

RT: 4.68 min Scan# 578

Delta R.T. 0.01 min

Lab File: VX011209.D

Acq: 30 Jul 2019 20:47

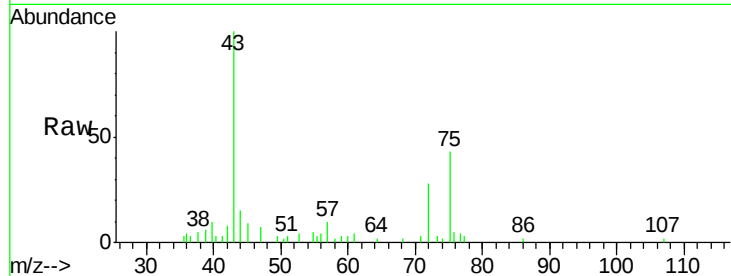
Instrument :
MSVOA_X
ClientSampled :
OWL-C6-GW

Tgt Ion: 43 Resp: 7303

Ion Ratio Lower Upper

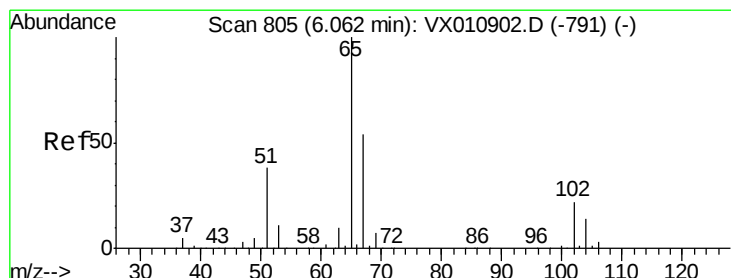
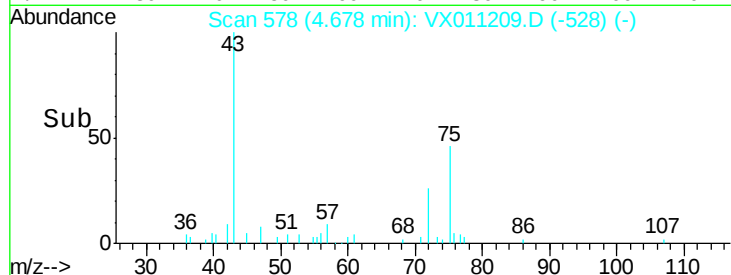
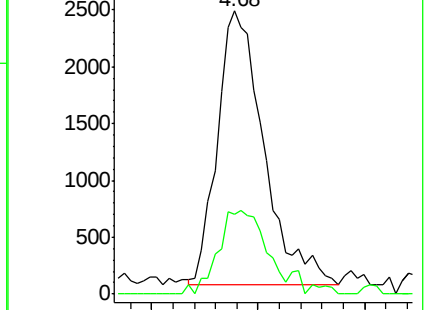
43 100

72 29.4 23.0 34.6



Abundance Ion 43.00 (42.70 to 43.70): VX0

Ion 72.00 (71.70 to 72.70): VX0



#33

1,2-Dichloroethane-d4

Concen: 46.308 ug/l

RT: 6.06 min Scan# 805

Delta R.T. -0.00 min

Lab File: VX011209.D

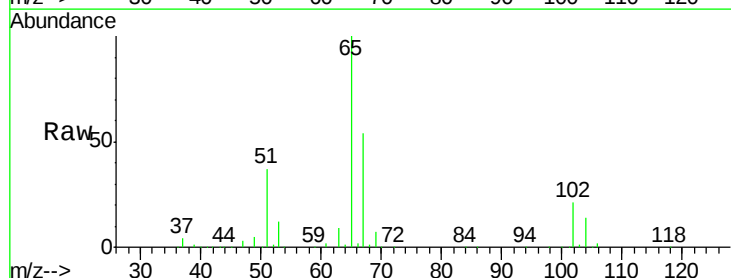
Acq: 30 Jul 2019 20:47

Tgt Ion: 65 Resp: 107908

Ion Ratio Lower Upper

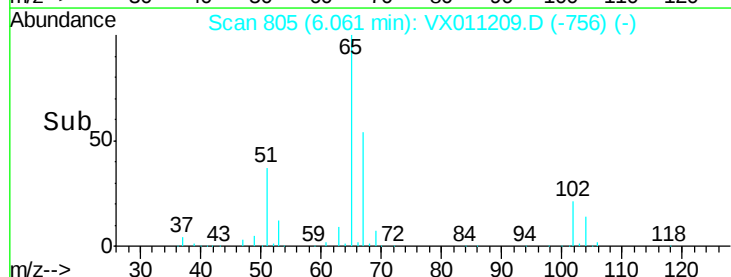
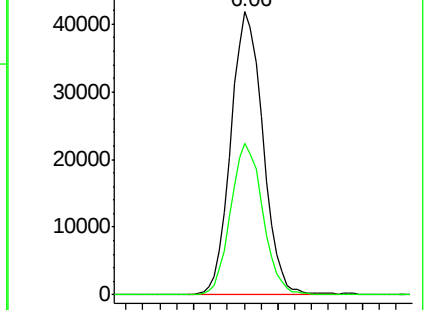
65 100

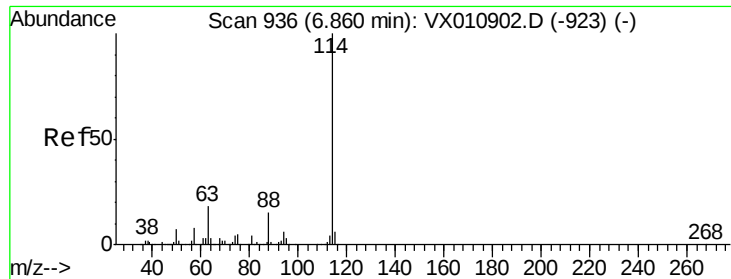
67 53.6 0.0 107.8



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: VX011209.D

Acq: 30 Jul 2019 20:47

Instrument :

MSVOA_X

ClientSampleId :

OWL-C6-GW

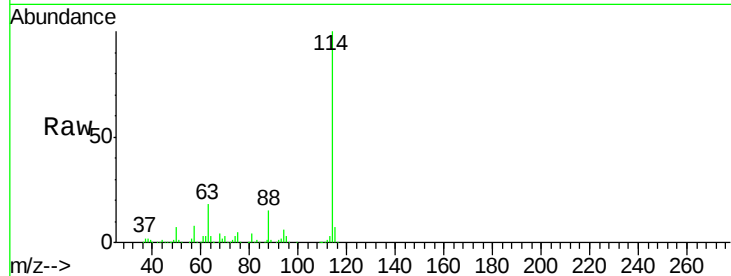
Tgt Ion:114 Resp: 315255

Ion Ratio Lower Upper

114 100

63 18.4 0.0 35.6

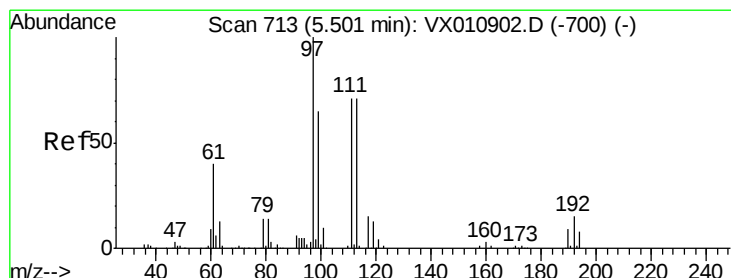
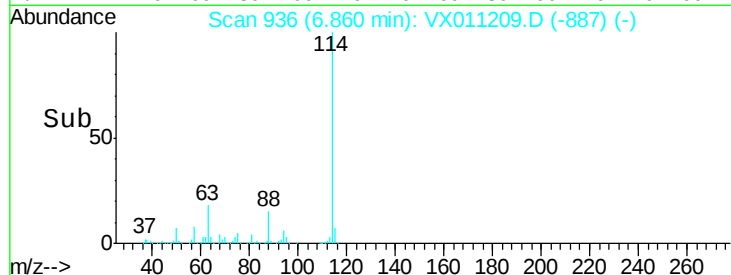
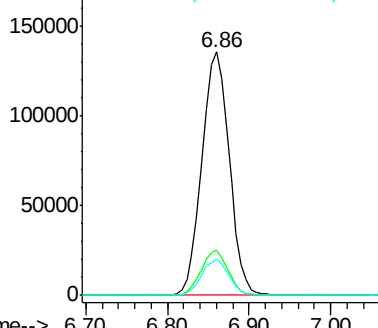
88 15.1 0.0 29.8



Abundance Ion 113.90 (113.60 to 114.60): V

Ion 63.00 (62.70 to 63.70): VX0

Ion 87.90 (87.60 to 88.60): VX0



#35

Dibromofluoromethane

Concen: 46.619 ug/l

RT: 5.50 min Scan# 713

Delta R.T. -0.00 min

Lab File: VX011209.D

Acq: 30 Jul 2019 20:47

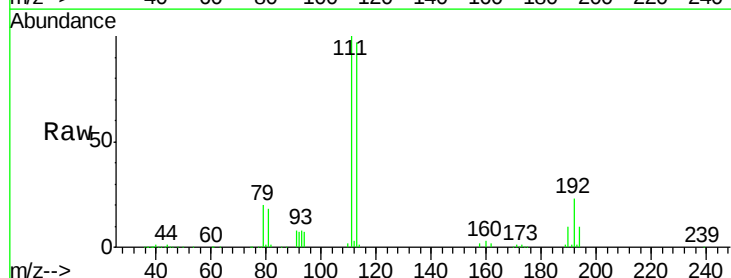
Tgt Ion:113 Resp: 93285

Ion Ratio Lower Upper

113 100

111 102.1 82.3 123.5

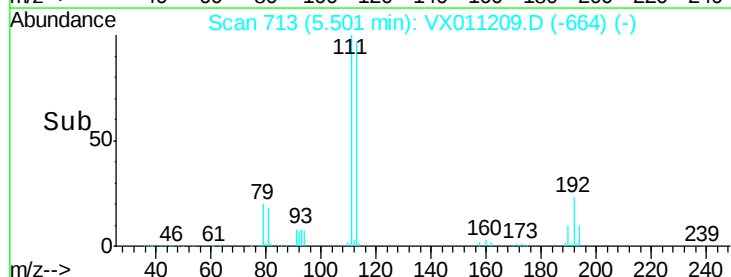
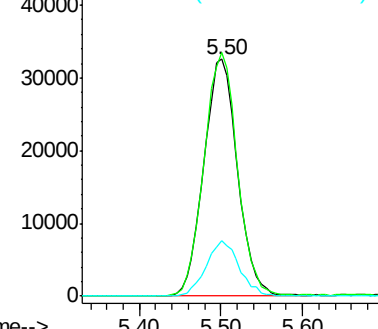
192 22.9 17.4 26.2

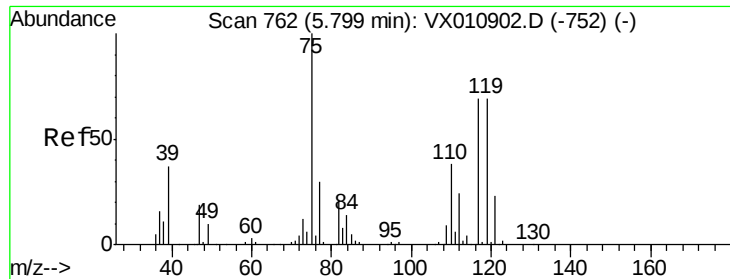


Abundance Ion 112.80 (112.50 to 113.50): V

Ion 110.80 (110.50 to 111.50): V

Ion 191.70 (191.40 to 192.40): V

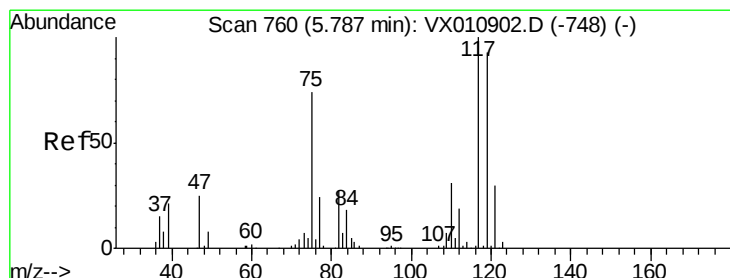
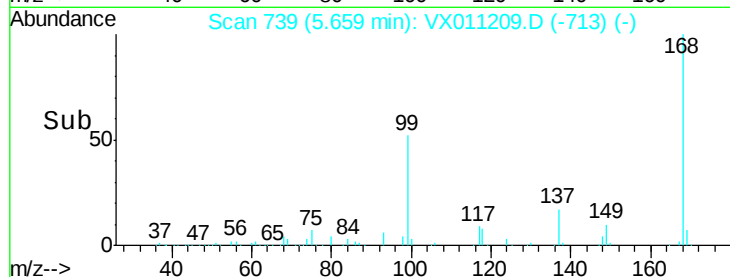
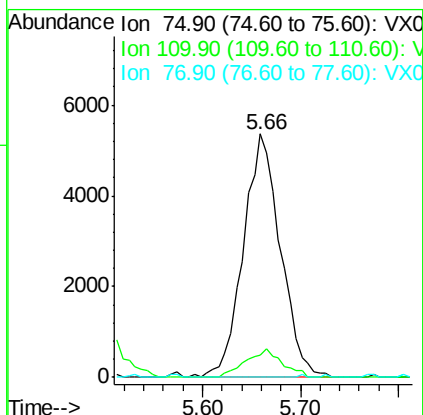
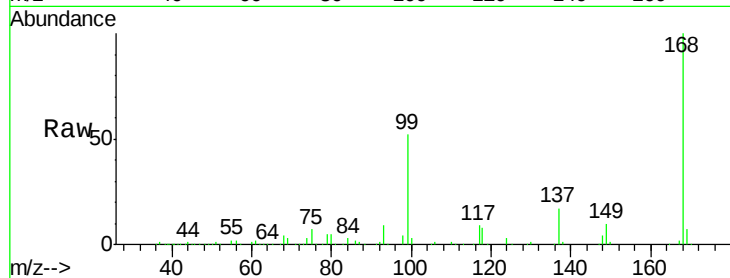




#36
 1,1-Dichloropropene
 Concen: 5.442 ug/l
 RT: 5.66 min Scan# 739
 Delta R.T. -0.14 min
 Lab File: VX011209.D
 Acq: 30 Jul 2019 20:47

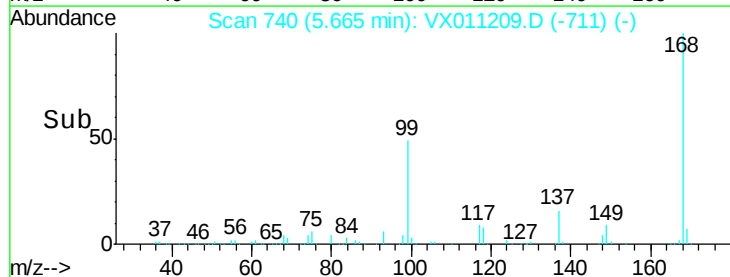
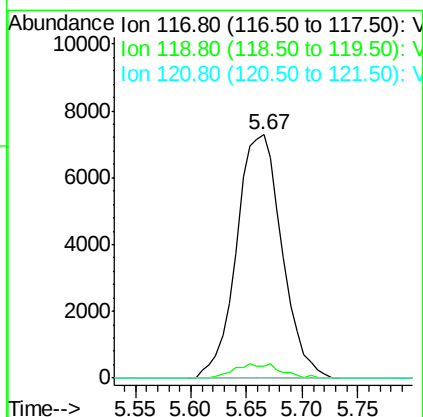
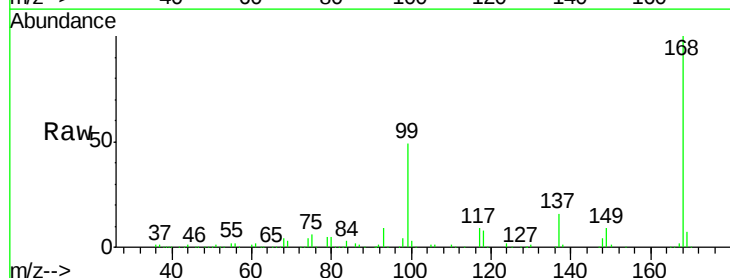
Instrument :
 MSVOA_X
 ClientSampleId :
 OWL-C6-GW

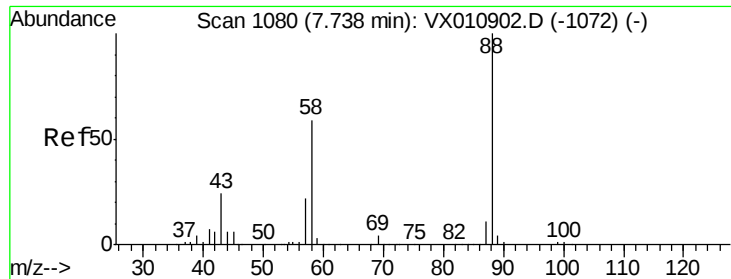
Tgt Ion: 75 Resp: 14093
 Ion Ratio Lower Upper
 75 100
 110 11.4 19.9 59.7#
 77 0.0 25.0 37.4#



#38
 Carbon Tetrachloride
 Concen: 7.636 ug/l
 RT: 5.67 min Scan# 740
 Delta R.T. -0.12 min
 Lab File: VX011209.D
 Acq: 30 Jul 2019 20:47

Tgt Ion: 117 Resp: 20604
 Ion Ratio Lower Upper
 117 100
 119 5.0 74.2 111.2#
 121 0.0 24.2 36.2#

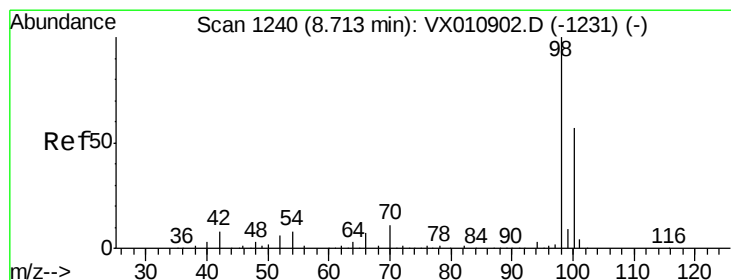
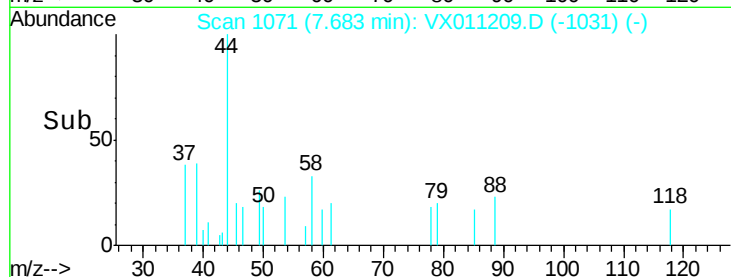
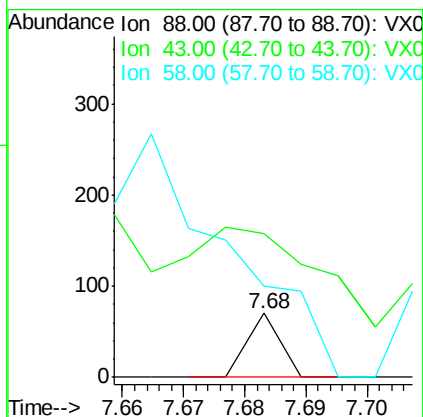
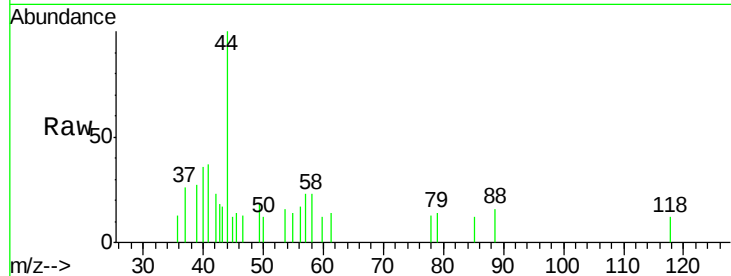




#49
1,4-Dioxane
Concen: 0.438 ug/l
RT: 7.68 min Scan# 1071
Delta R.T. -0.05 min
Lab File: VX011209.D
Acq: 30 Jul 2019 20:47

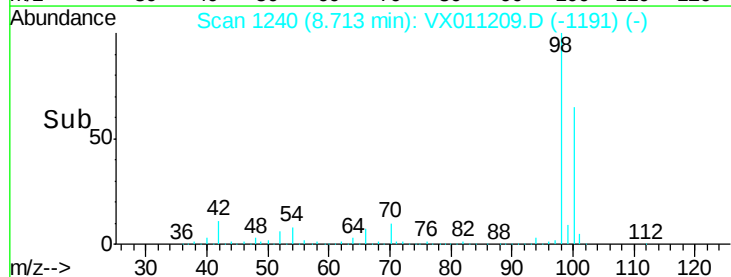
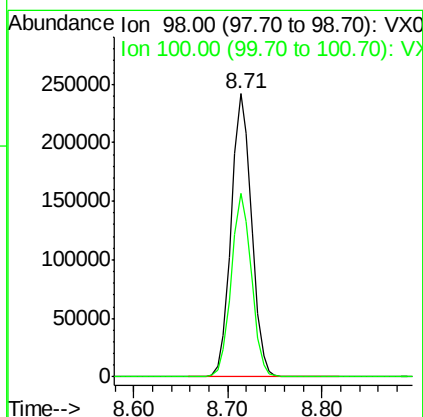
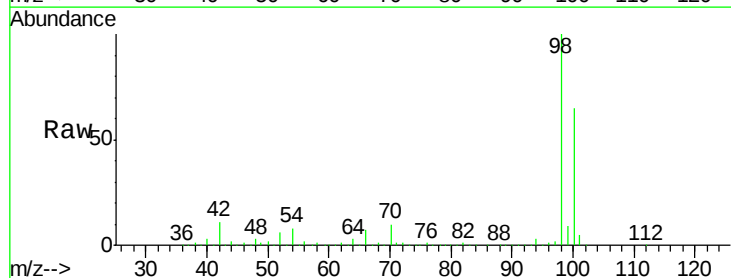
Instrument :
MSVOA_X
ClientSampled :
OWL-C6-GW

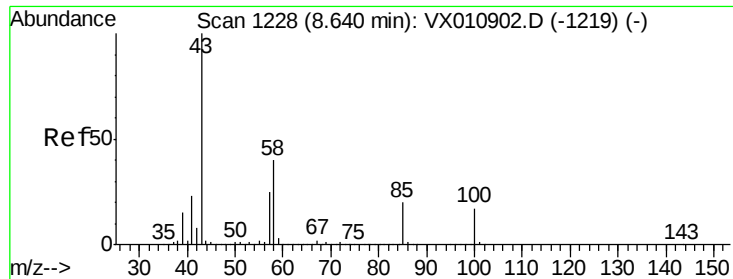
Tgt Ion: 88 Resp: 26
Ion Ratio Lower Upper
88 100
43 0.0 22.9 34.3#
58 0.0 49.8 74.8#



#50
Toluene-d8
Concen: 48.466 ug/l
RT: 8.71 min Scan# 1240
Delta R.T. -0.00 min
Lab File: VX011209.D
Acq: 30 Jul 2019 20:47

Tgt Ion: 98 Resp: 363733
Ion Ratio Lower Upper
98 100
100 64.0 50.6 75.8

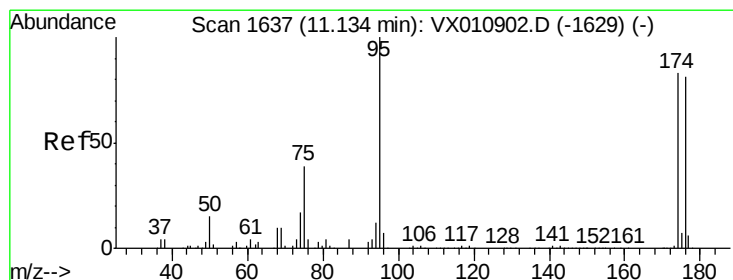
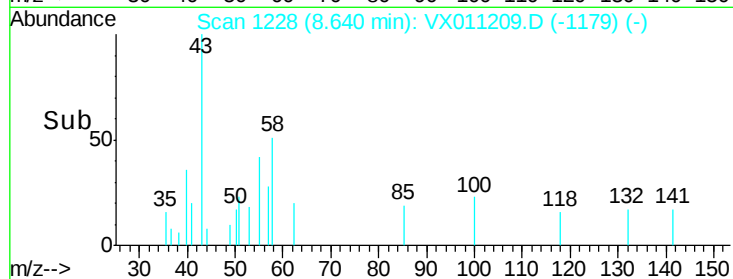
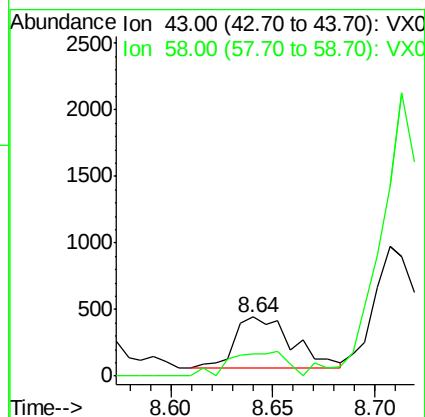
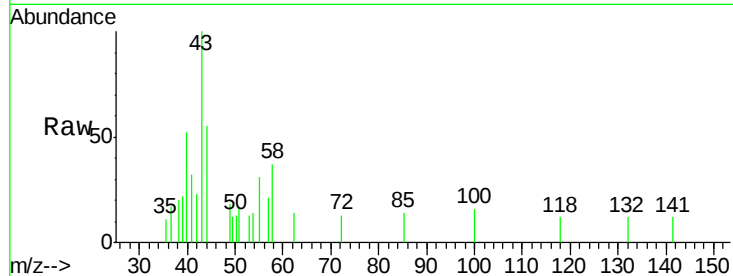




#51
 4-Methyl-2-Pentanone
 Concen: 0.263 ug/l
 RT: 8.64 min Scan# 1228
 Delta R.T. -0.00 min
 Lab File: VX011209.D
 Acq: 30 Jul 2019 20:47

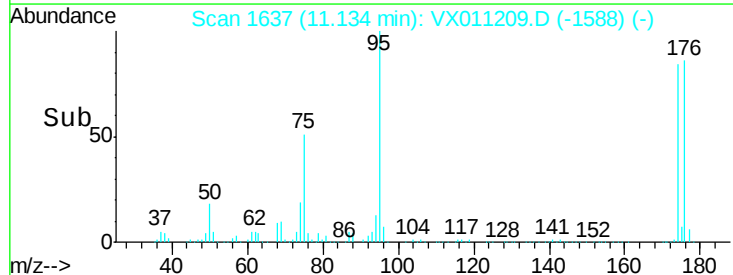
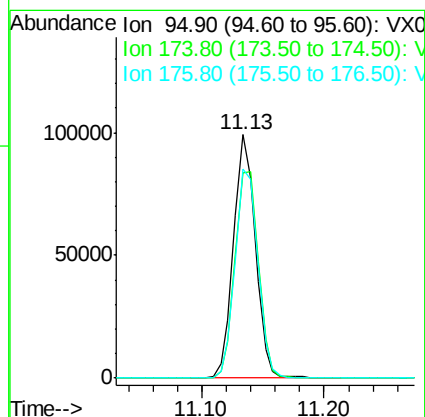
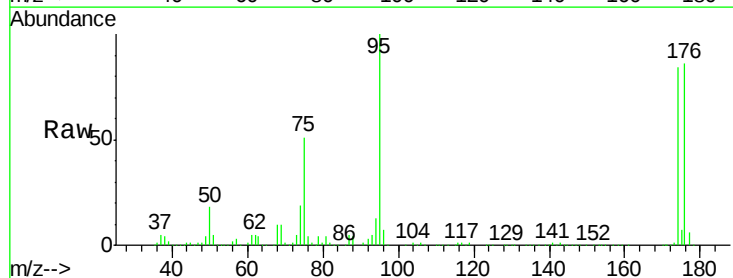
Instrument :
 MSVOA_X
 ClientSampleId :
 OWL-C6-GW

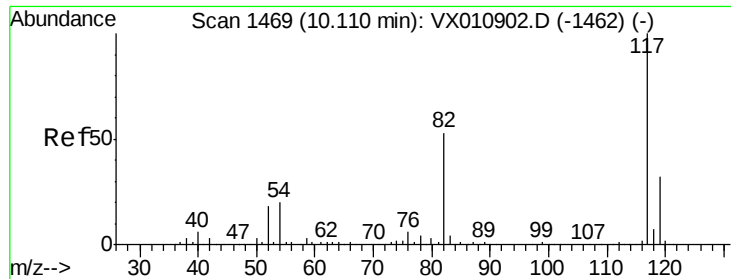
Tgt Ion: 43 Resp: 742
 Ion Ratio Lower Upper
 43 100
 58 47.3 32.2 48.4



#62
 4-Bromofluorobenzene
 Concen: 44.350 ug/l
 RT: 11.13 min Scan# 1637
 Delta R.T. -0.00 min
 Lab File: VX011209.D
 Acq: 30 Jul 2019 20:47

Tgt Ion: 95 Resp: 122343
 Ion Ratio Lower Upper
 95 100
 174 91.1 0.0 180.6
 176 89.6 0.0 173.8

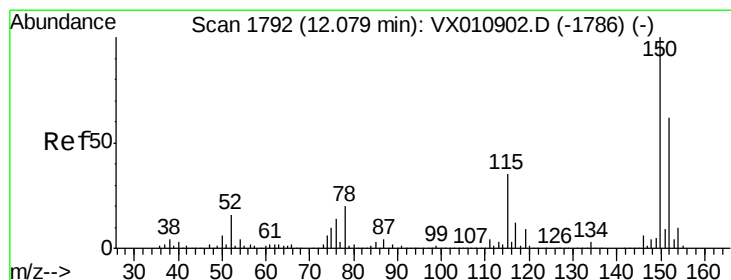
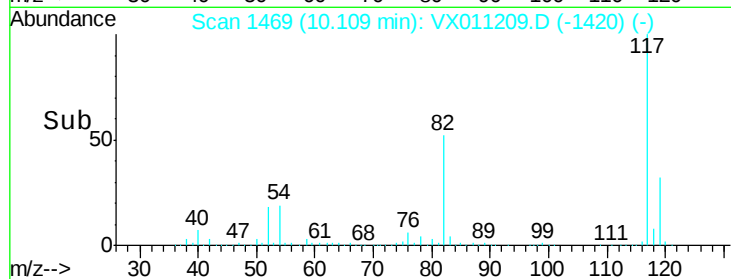
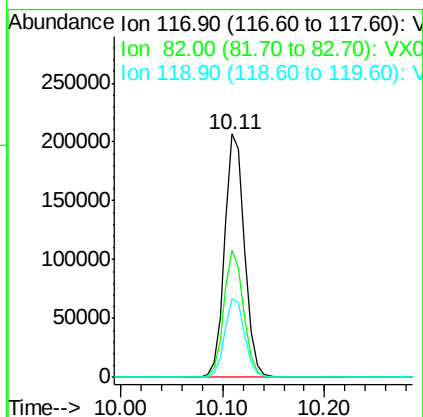
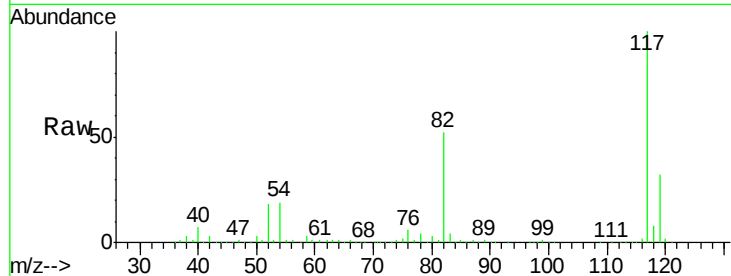




#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 10.11 min Scan# 1469
Delta R.T. -0.00 min
Lab File: VX011209.D
Acq: 30 Jul 2019 20:47

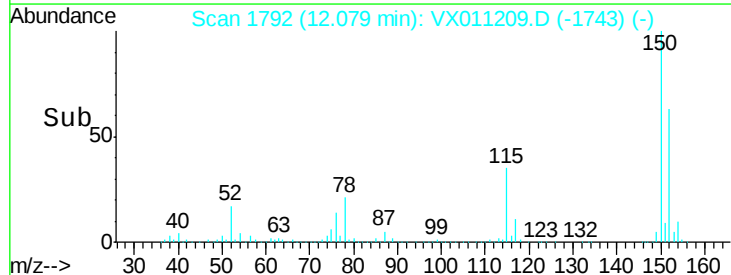
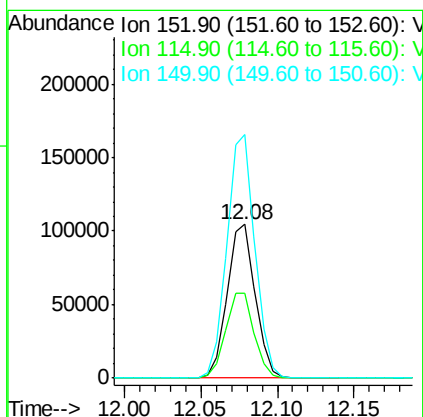
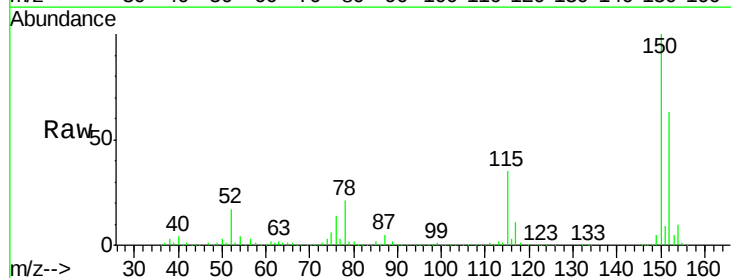
Instrument :
MSVOA_X
ClientSampled :
OWL-C6-GW

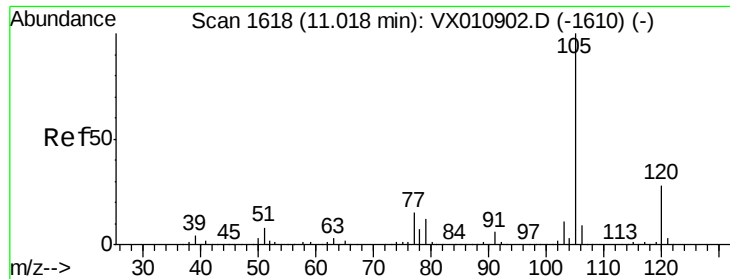
Tgt Ion:117 Resp: 278329
Ion Ratio Lower Upper
117 100
82 52.3 42.6 63.8
119 32.3 25.9 38.9



#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 12.08 min Scan# 1792
Delta R.T. -0.00 min
Lab File: VX011209.D
Acq: 30 Jul 2019 20:47

Tgt Ion:152 Resp: 132793
Ion Ratio Lower Upper
152 100
115 56.2 39.7 119.1
150 158.0 0.0 345.6





#73

Isopropylbenzene

Concen: 0.662 ug/l

RT: 11.02 min Scan# 1618

Delta R.T. -0.00 min

Lab File: VX011209.D

Acq: 30 Jul 2019 20:47

Instrument :

MSVOA_X

ClientSampled :

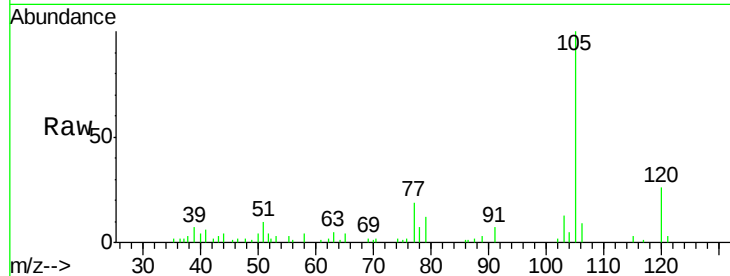
OWL-C6-GW

Tgt Ion: 105 Resp: 5943

Ion Ratio Lower Upper

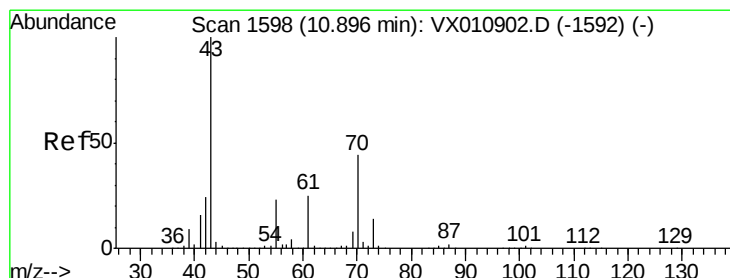
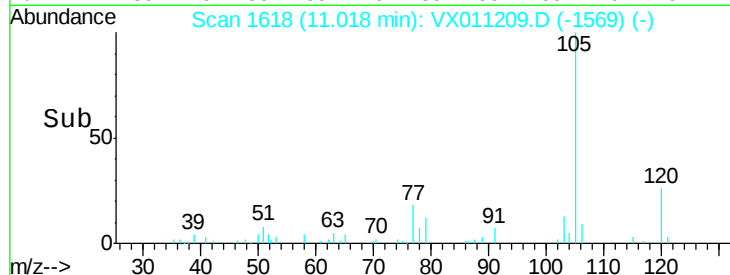
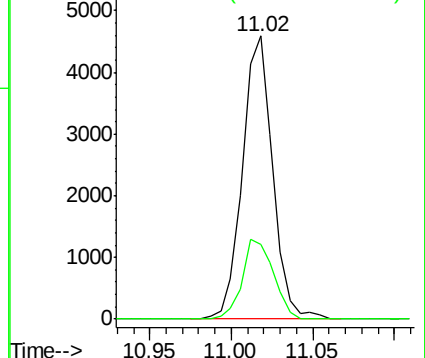
105 100

120 28.9 13.7 41.1



Abundance Ion 105.00 (104.70 to 105.70): V

Ion 120.00 (119.70 to 120.70): V



#74

N-ethyl acetate

Concen: 0.383 ug/l

RT: 10.91 min Scan# 1600

Delta R.T. 0.01 min

Lab File: VX011209.D

Acq: 30 Jul 2019 20:47

Tgt Ion: 43 Resp: 1314

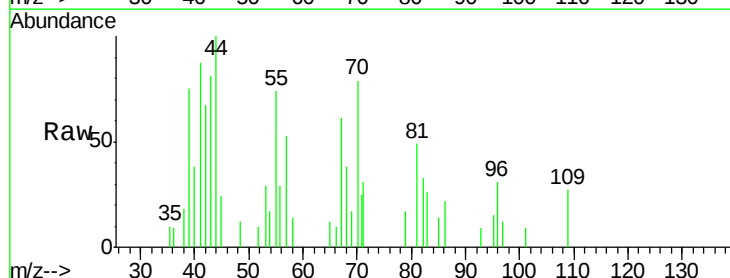
Ion Ratio Lower Upper

43 100

70 68.8 34.7 52.1#

55 109.1 19.1 28.7#

61 0.0 19.9 29.9#

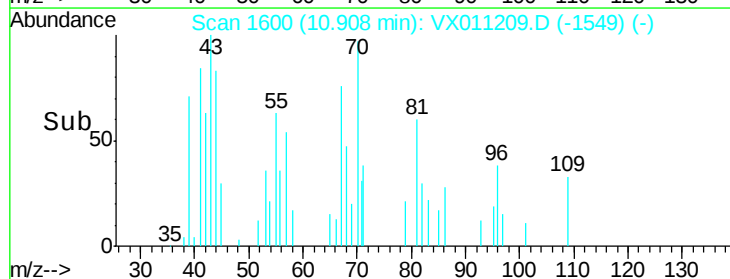
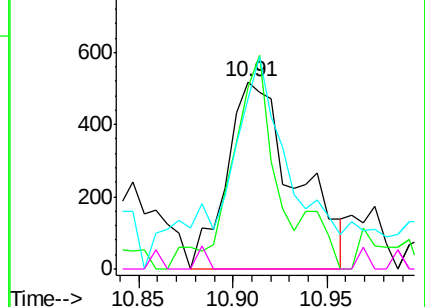


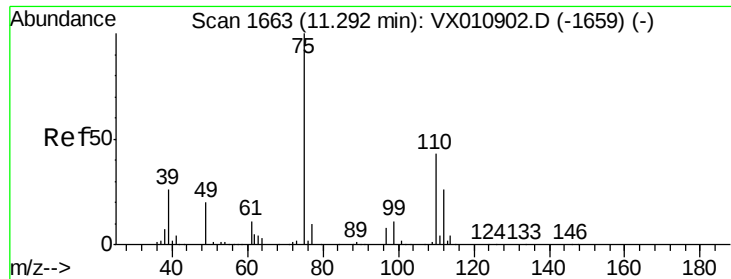
Abundance Ion 43.00 (42.70 to 43.70): VX0

Ion 70.00 (69.70 to 70.70): VX0

Ion 55.00 (54.70 to 55.70): VX0

Ion 61.00 (60.70 to 61.70): VX0

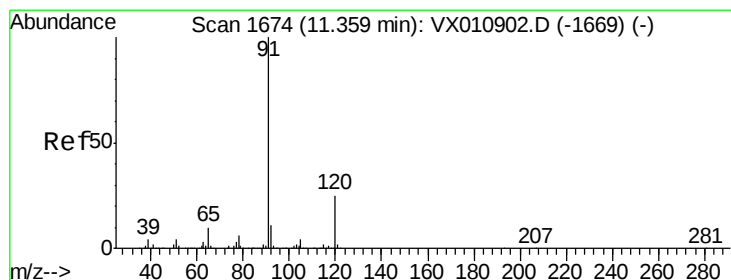
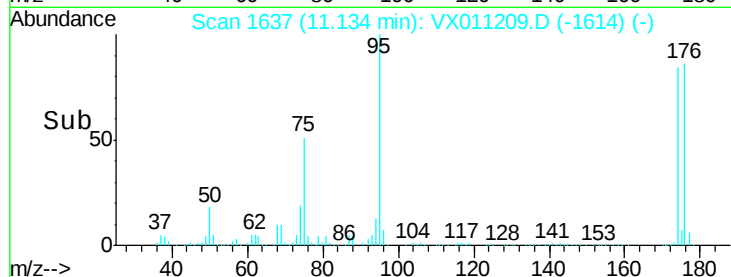
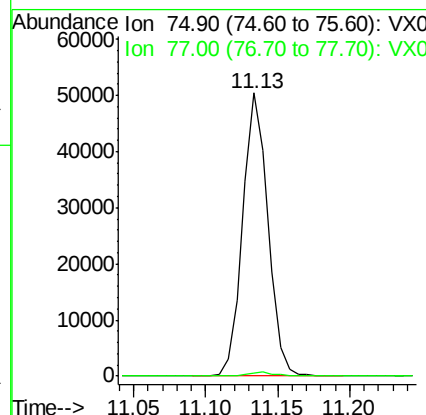
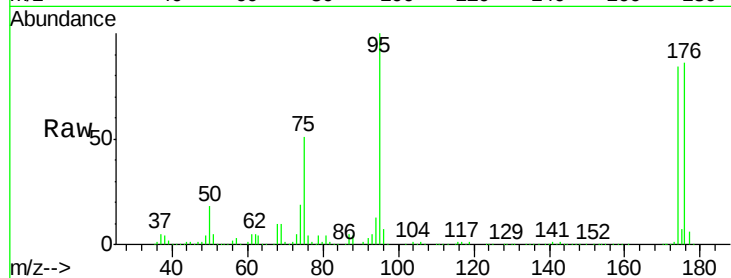




#76
 1,2,3-Trichloropropane
 Concen: 25.773 ug/l
 RT: 11.13 min Scan# 1637
 Delta R.T. -0.16 min
 Lab File: VX011209.D
 Acq: 30 Jul 2019 20:47

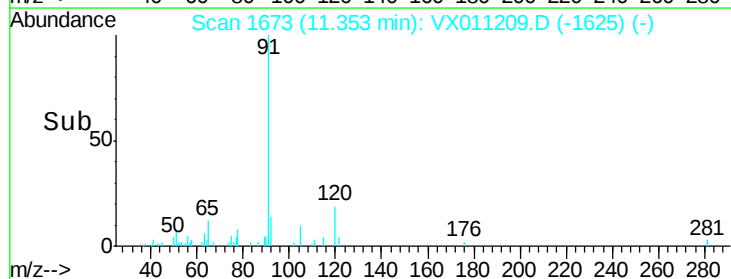
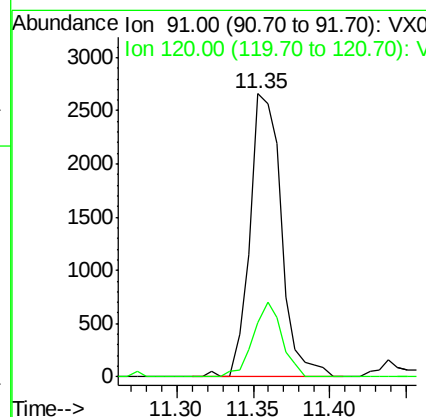
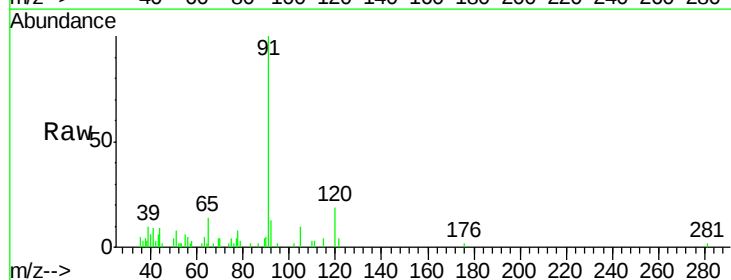
Instrument :
 MSVOA_X
 ClientSampleId :
 OWL-C6-GW

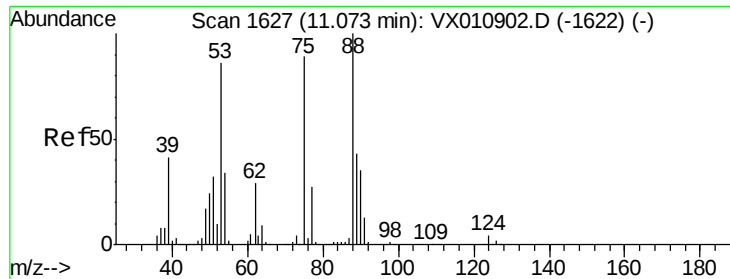
Tgt Ion: 75 Resp: 61760
 Ion Ratio Lower Upper
 75 100
 77 1.5 21.3 64.0#



#78
 n-propylbenzene
 Concen: 0.383 ug/l
 RT: 11.35 min Scan# 1673
 Delta R.T. -0.01 min
 Lab File: VX011209.D
 Acq: 30 Jul 2019 20:47

Tgt Ion: 91 Resp: 3794
 Ion Ratio Lower Upper
 91 100
 120 24.0 12.3 36.8





#81

trans-1,4-Dichloro-2-butene

Concen: 64.079 ug/l

RT: 11.13 min Scan# 1637

Delta R.T. 0.06 min

Lab File: VX011209.D

Acq: 30 Jul 2019 20:47

Instrument :

MSVOA_X

ClientSampleId :

OWL-C6-GW

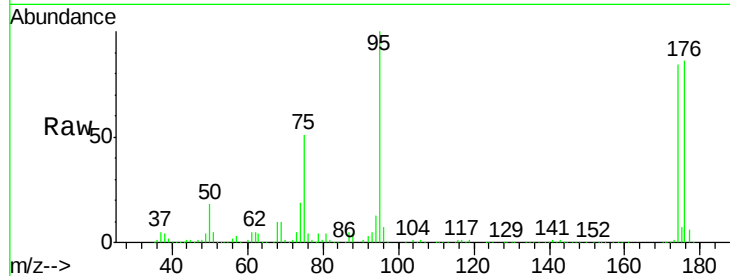
Tgt Ion: 75 Resp: 61760

Ion Ratio Lower Upper

75 100

53 0.5 76.7 115.1#

89 0.0 38.5 57.7#

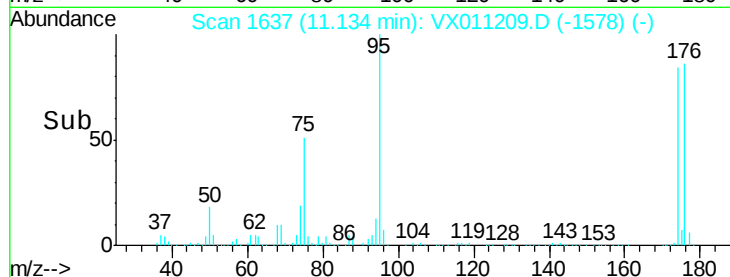


Abundance Ion 74.90 (74.60 to 75.60): VX011209.D (-1578) (-)

Ion 53.00 (52.70 to 53.70): VX011209.D (-1578) (-)

Ion 88.90 (88.60 to 89.60): VX011209.D (-1578) (-)

Time-->



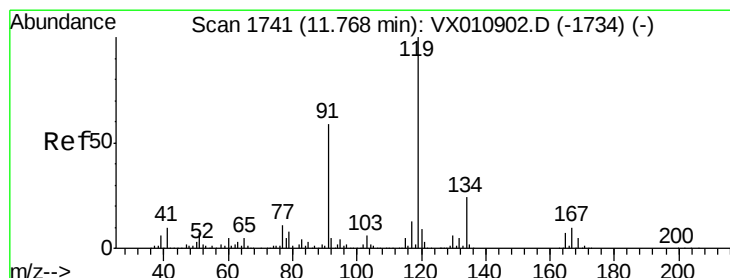
Abundance

Ion 74.90 (74.60 to 75.60): VX011209.D (-1578) (-)

Ion 53.00 (52.70 to 53.70): VX011209.D (-1578) (-)

Ion 88.90 (88.60 to 89.60): VX011209.D (-1578) (-)

Time-->



#83

tert-Butylbenzene

Concen: 0.239 ug/l

RT: 11.77 min Scan# 1741

Delta R.T. -0.00 min

Lab File: VX011209.D

Acq: 30 Jul 2019 20:47

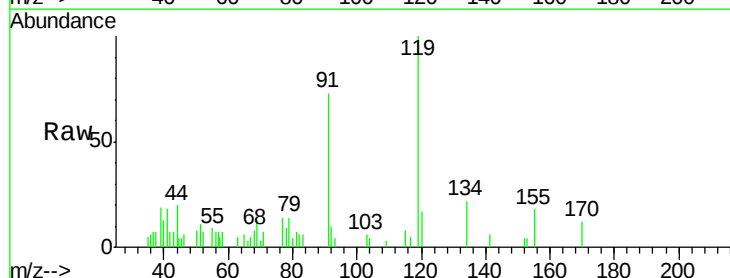
Tgt Ion: 119 Resp: 1762

Ion Ratio Lower Upper

119 100

91 75.1 28.6 85.8

134 22.1 11.6 34.8

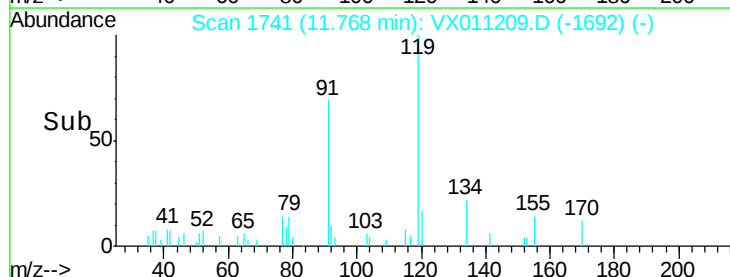


Abundance Ion 119.00 (118.70 to 119.70): VX011209.D (-1692) (-)

Ion 91.00 (90.70 to 91.70): VX011209.D (-1692) (-)

Ion 134.00 (133.70 to 134.70): VX011209.D (-1692) (-)

Time-->



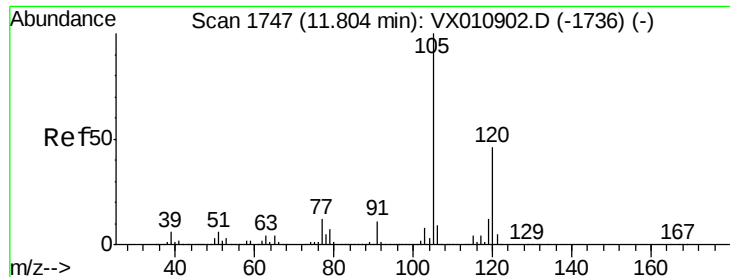
Abundance

Ion 119.00 (118.70 to 119.70): VX011209.D (-1692) (-)

Ion 91.00 (90.70 to 91.70): VX011209.D (-1692) (-)

Ion 134.00 (133.70 to 134.70): VX011209.D (-1692) (-)

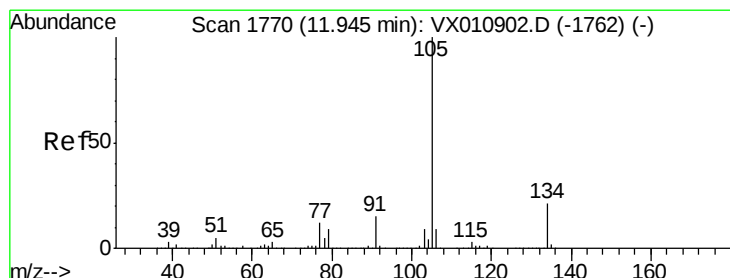
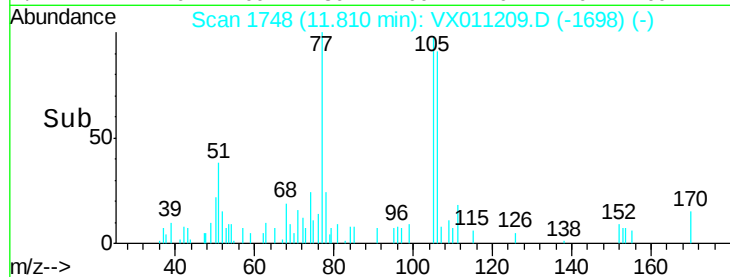
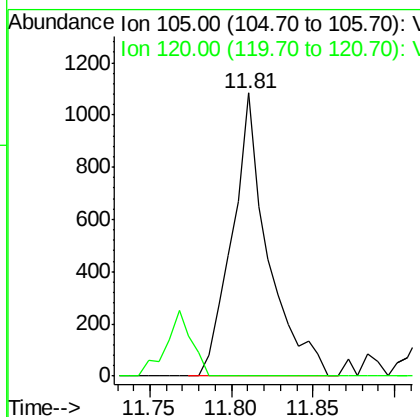
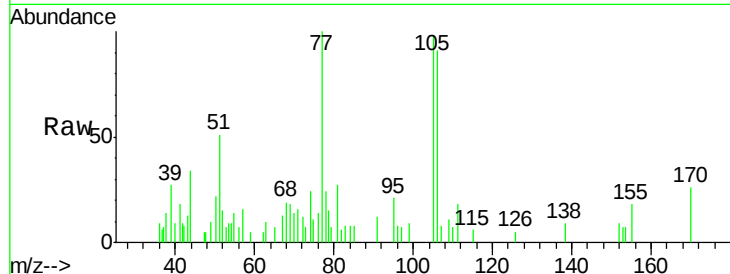
Time-->



#84
 1,2,4-Trimethylbenzene
 Concen: 0.218 ug/l
 RT: 11.81 min Scan# 1748
 Delta R.T. 0.01 min
 Lab File: VX011209.D
 Acq: 30 Jul 2019 20:47

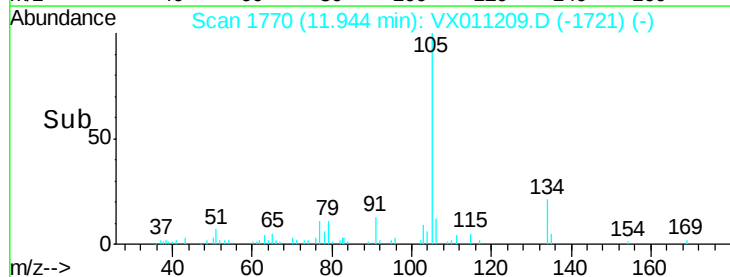
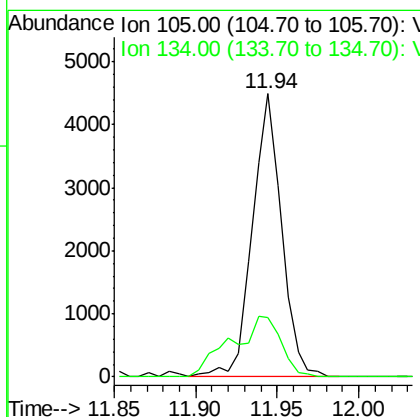
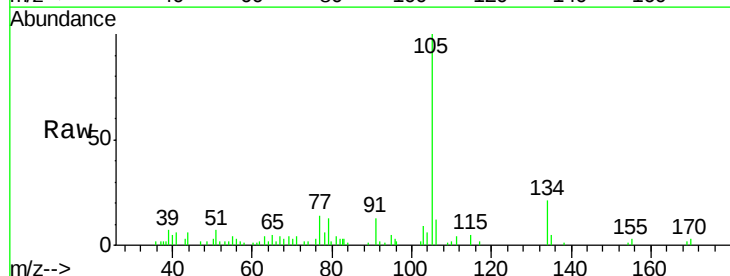
Instrument :
 MSVOA_X
 ClientSampleId :
 OWL-C6-GW

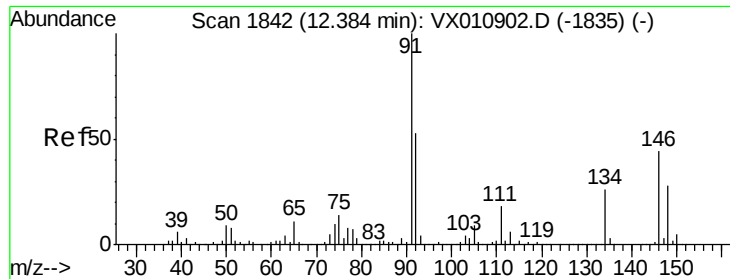
Tgt Ion:105 Resp: 1650
 Ion Ratio Lower Upper
 105 100
 120 0.0 22.9 68.5#



#85
 sec-Butylbenzene
 Concen: 0.650 ug/l
 RT: 11.94 min Scan# 1770
 Delta R.T. -0.00 min
 Lab File: VX011209.D
 Acq: 30 Jul 2019 20:47

Tgt Ion:105 Resp: 5606
 Ion Ratio Lower Upper
 105 100
 134 36.3 10.4 31.4#





#89

n-Butylbenzene

Concen: 0.216 ug/l

RT: 12.38 min Scan# 1842

Delta R.T. -0.00 min

Lab File: VX011209.D

Acq: 30 Jul 2019 20:47

Instrument :

MSVOA_X

ClientSampleId :

OWL-C6-GW

Tgt Ion: 91 Resp: 1476

Ion Ratio Lower Upper

91 100

92 41.7 26.2 78.5

134 29.9 13.8 41.3

