

Data Path : Z:\VOASRV\HPCHEM1\MSVOA W\DATA\VW011619\
 Data File : VW008311.D
 Acq On : 16 Jan 2019 16:29
 Operator : SY/VA
 Sample : K1012-09RE
 Misc : 6.12G/5ML/MSVOA W/SOIL
 ALS Vial : 13 Sample Multiplier: 1

Instrument :
 MSVOA_W
 ClientSampleId :
 EO-01-011519-B

Quant Time: Jan 17 05:04:06 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_W\METHOD\82W010819S.M
 Quant Title : SW846 8260
 QLast Update : Wed Jan 09 04:40:48 2019
 Response via : Initial Calibration

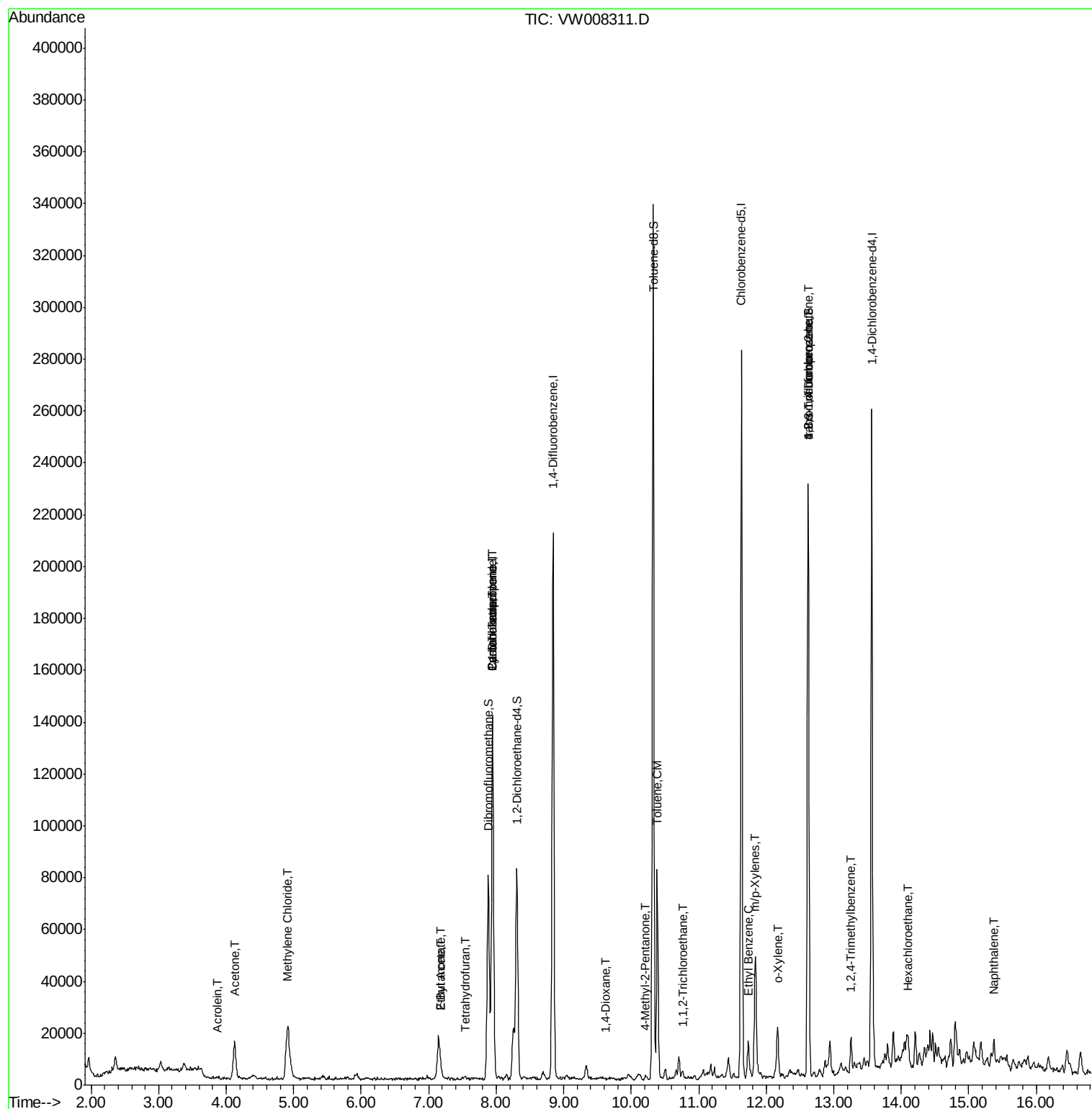
Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	7.95	168	105215	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	8.84	114	176250	50.00	ug/l	0.00
63) Chlorobenzene-d5	11.63	117	156737	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.56	152	66477	50.00	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	8.31	65	57724	48.81	ug/l	0.00
Spiked Amount	50.000		Recovery	=	97.62%	
35) Dibromofluoromethane	7.88	113	56182	54.65	ug/l	0.00
Spiked Amount	50.000		Recovery	=	109.30%	
50) Toluene-d8	10.32	98	219494	50.88	ug/l	0.00
Spiked Amount	50.000		Recovery	=	101.76%	
62) 4-Bromofluorobenzene	12.62	95	70879	45.83	ug/l	0.00
Spiked Amount	50.000		Recovery	=	91.66%	
Target Compounds						
					Qvalue	
11) Tert butyl alcohol	5.26	59	96	Below Cal	#	100
13) Acrolein	3.87	56	347	2.928	ug/l #	54
16) Acetone	4.12	43	25254	106.685	ug/l	92
20) Methylene Chloride	4.91	84	18228	12.002	ug/l	92
25) 2-Butanone	7.18	43	5009	15.224	ug/l	92
29) Tetrahydrofuran	7.54	42	981	4.464	ug/l #	71
31) Cyclohexane	7.94	56	3226	1.296	ug/l #	16
36) 1,1-Dichloropropene	7.95	75	8169	4.499	ug/l #	51
37) Ethyl Acetate	7.18	43	5132	7.056	ug/l #	75
38) Carbon Tetrachloride	7.95	117	10402	6.260	ug/l #	18
49) 1,4-Dioxane	9.62	88	21	2.178	ug/l #	1
51) 4-Methyl-2-Pentanone	10.21	43	782	1.111	ug/l #	54
52) Toluene	10.39	92	34404	10.940	ug/l	99
55) 1,1,2-Trichloroethane	10.76	97	1116	1.326	ug/l #	22
67) Ethyl Benzene	11.73	91	8768	1.443	ug/l	94
68) m/p-Xylenes	11.84	106	14498	6.252	ug/l	96
69) o-Xylene	12.17	106	5142	2.394	ug/l	94
76) 1,2,3-Trichloropropane	12.62	75	33969	56.054	ug/l #	1
81) trans-1,4-Dichloro-2-buten	12.62	75	33969	130.532	ug/l #	11
84) 1,2,4-Trimethylbenzene	13.26	105	6638	1.501	ug/l	90
90) Hexachloroethane	14.10	117	830	1.024	ug/l #	17
95) Naphthalene	15.37	128	7801	3.201	ug/l #	95

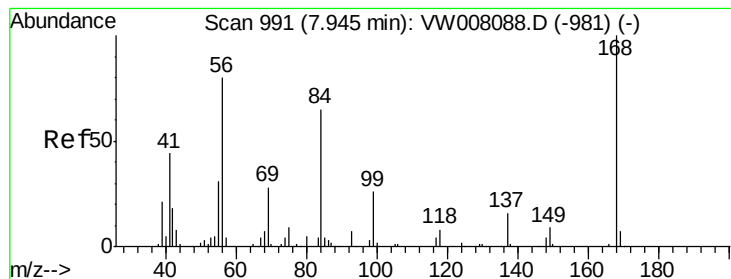
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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Quant Title : SW846 8260
QLast Update : Wed Jan 09 04:40:48 2019
Response via : Initial Calibration





#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 7.95 min Scan# 991

Delta R.T. -0.00 min

Lab File: VW008311.D

Acq: 16 Jan 2019 16:29

Instrument :

MSVOA_W

ClientSampleId :

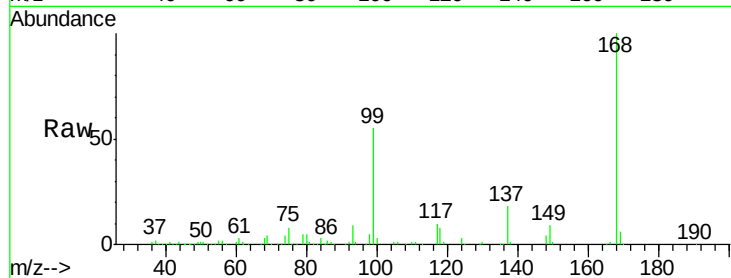
EO-01-011519-B

Tot Ion:168 Resp: 105215

Ion Ratio Lower Upper

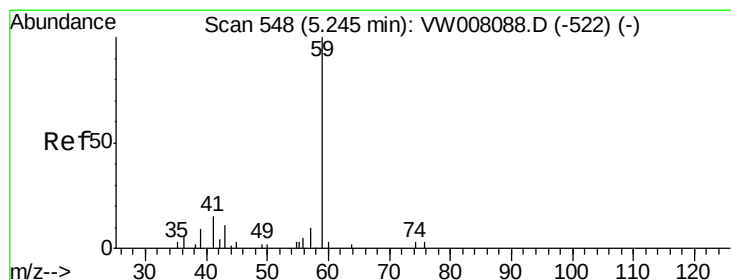
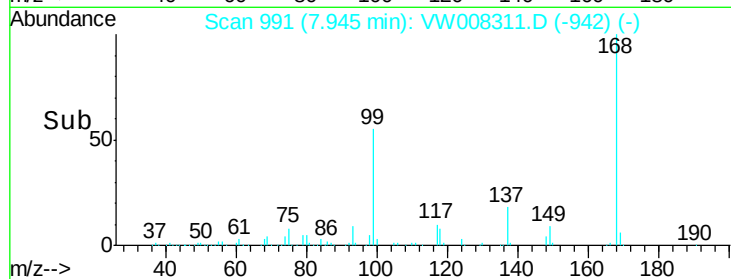
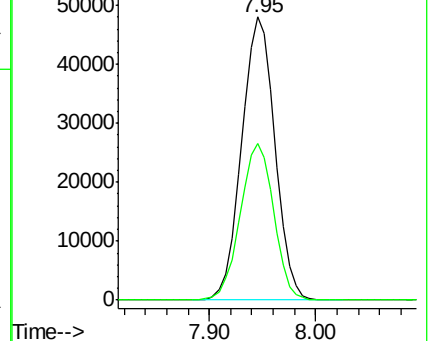
168 100

99 55.4 52.6 78.8



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VW



#11

Tert butyl alcohol

Concen: Below Cal

RT: 5.26 min Scan# 550

Delta R.T. 0.01 min

Lab File: VW008311.D

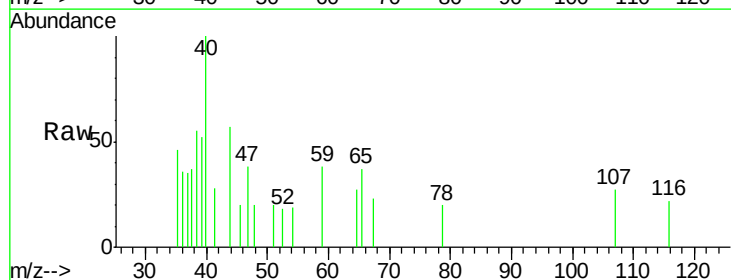
Acq: 16 Jan 2019 16:29

Tgt Ion: 59 Resp: 96

Ion Ratio Lower Upper

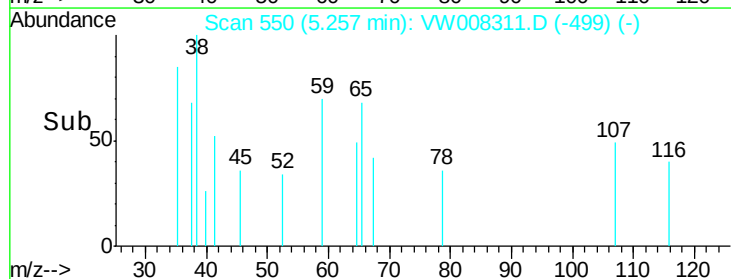
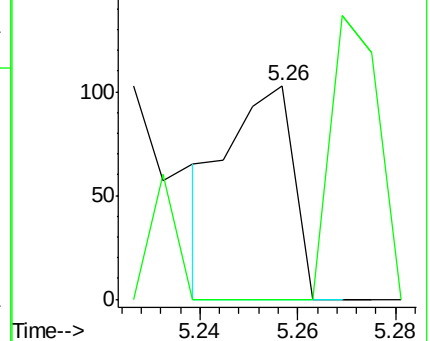
59 100

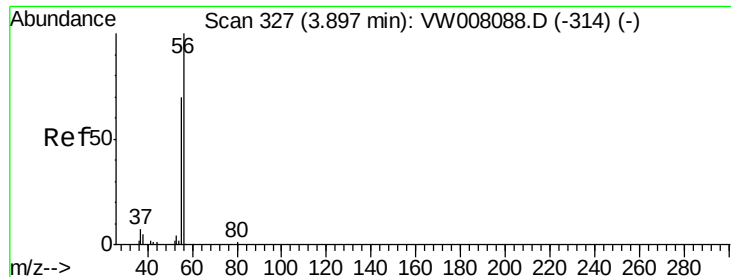
57 97.9 0.0 0.0#



Abundance Ion 59.00 (58.70 to 59.70): VW

Ion 57.00 (56.70 to 57.70): VW





#13

Acrolein

Concen: 2.928 ug/l

RT: 3.87 min Scan# 323

Delta R.T. -0.02 min

Lab File: VW008311.D

Acq: 16 Jan 2019 16:29

Instrument :

MSVOA_W

ClientSampleId :

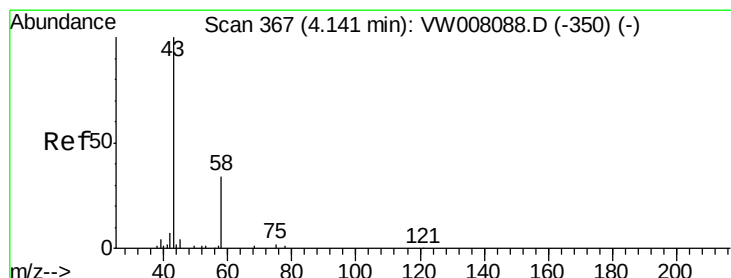
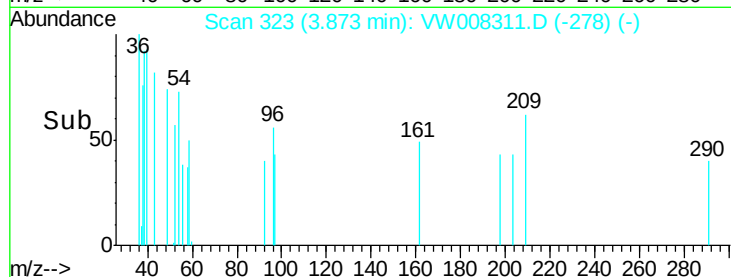
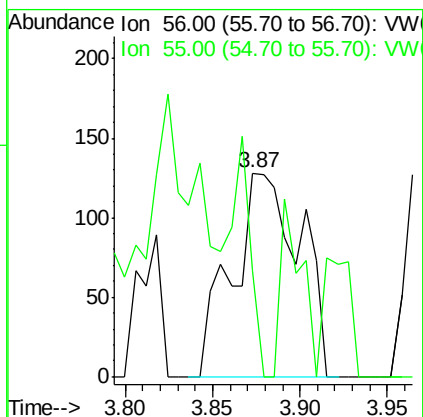
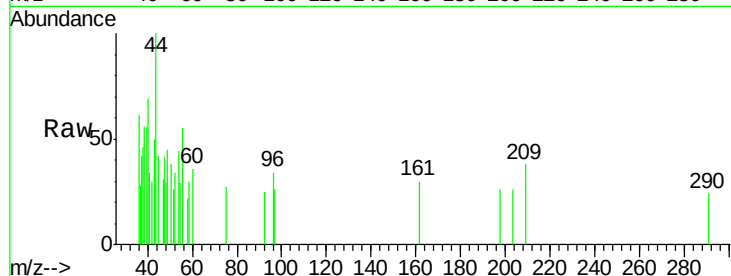
EO-01-011519-B

Tot Ion: 56 Resp: 347

Ion Ratio Lower Upper

56 100

55 32.9 56.6 84.8#



#16

Acetone

Concen: 106.685 ug/l

RT: 4.12 min Scan# 364

Delta R.T. -0.02 min

Lab File: VW008311.D

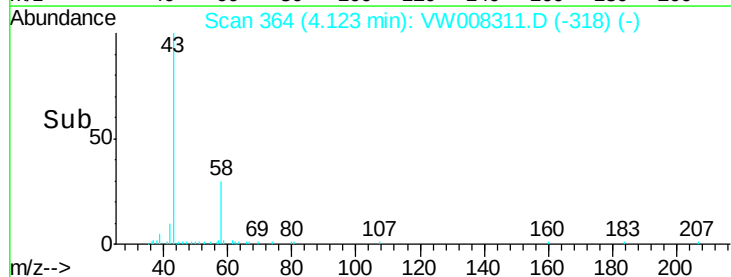
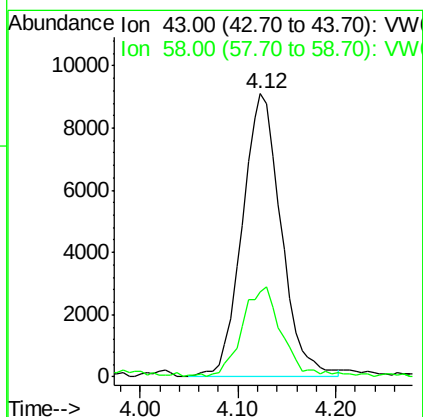
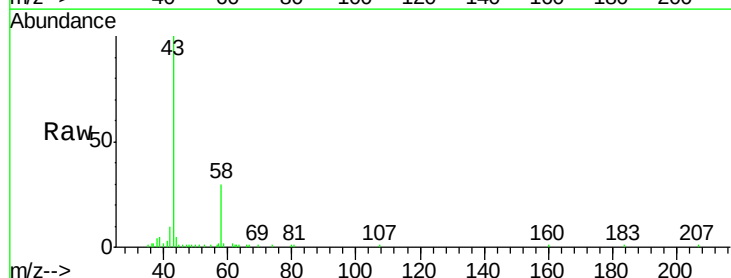
Acq: 16 Jan 2019 16:29

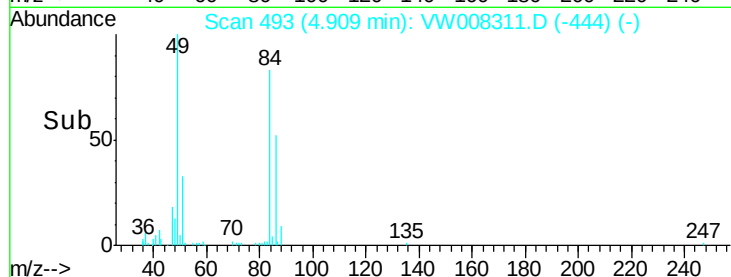
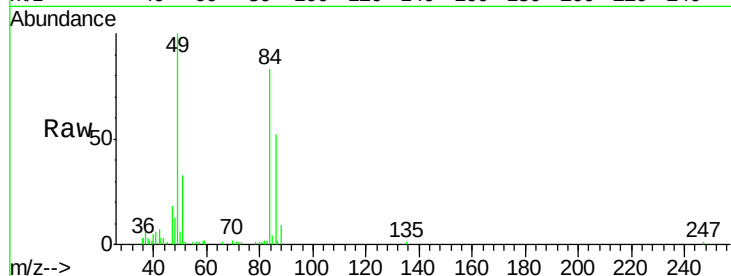
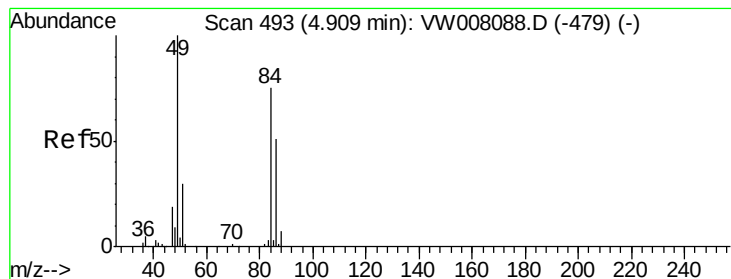
Tgt Ion: 43 Resp: 25254

Ion Ratio Lower Upper

43 100

58 29.5 27.5 41.3





#20

Methylene Chloride

Concen: 12.002 ug/l

RT: 4.91 min Scan# 493

Delta R.T. 0.00 min

Lab File: VW008311.D

Acq: 16 Jan 2019 16:29

Instrument :

MSVOA_W

ClientSampleId :

EO-01-011519-B

Tot Ion: 84 Resp: 18228

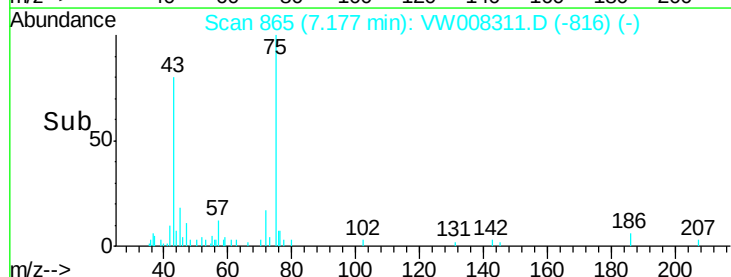
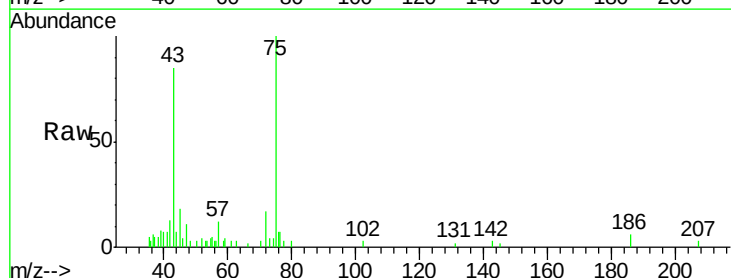
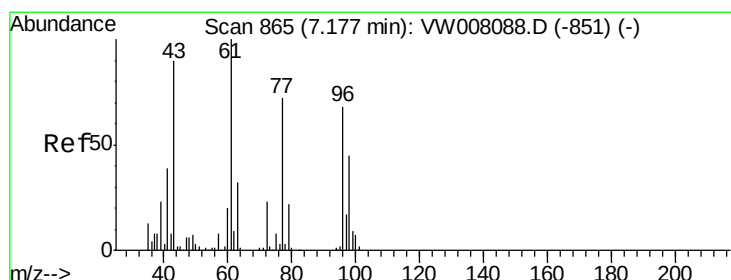
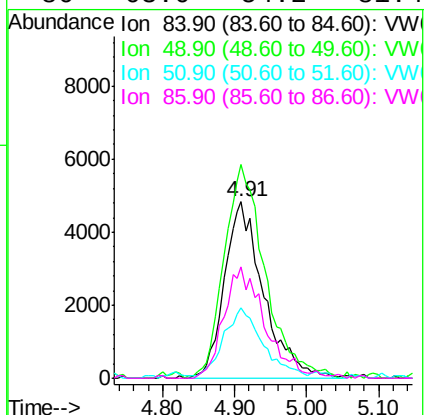
Ion	Ratio	Lower	Upper
84	100		
49	121.1	107.1	160.7
51	39.8	32.4	48.6
86	63.0	54.2	81.4

84 100

49 121.1 107.1 160.7

51 39.8 32.4 48.6

86 63.0 54.2 81.4



#25

2-Butanone

Concen: 15.224 ug/l

RT: 7.18 min Scan# 865

Delta R.T. -0.00 min

Lab File: VW008311.D

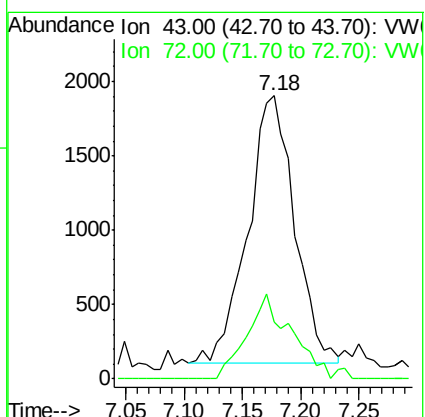
Acq: 16 Jan 2019 16:29

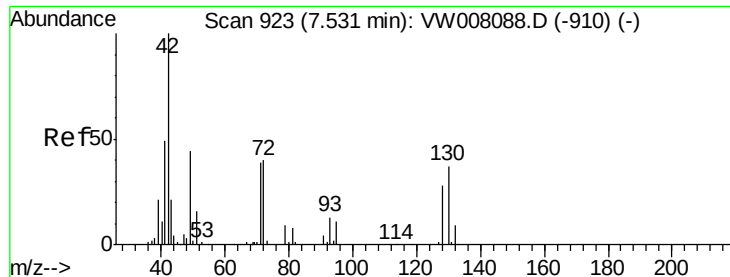
Tgt Ion: 43 Resp: 5009

Ion	Ratio	Lower	Upper
43	100		
72	21.5	20.5	30.7

43 100

72 21.5 20.5 30.7

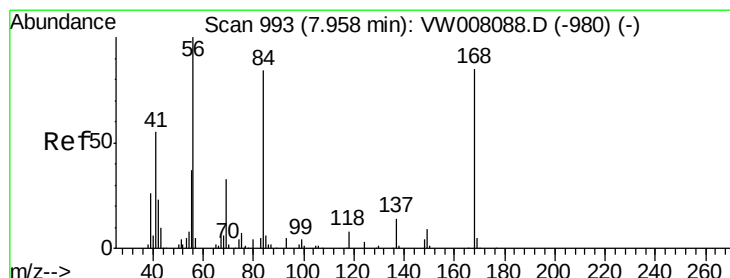
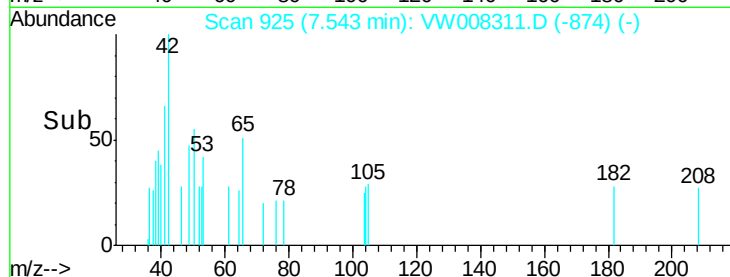
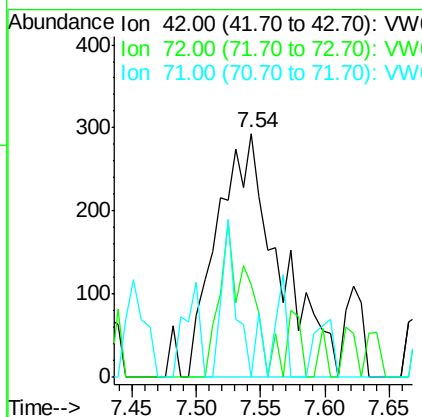
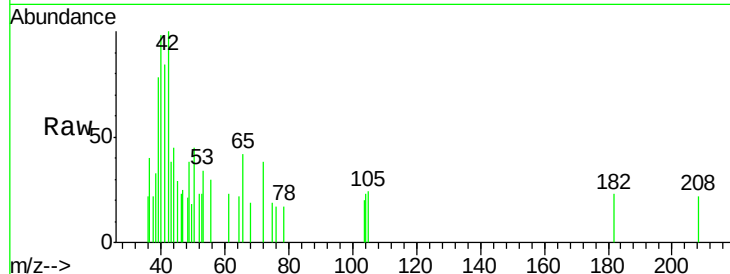




#29
Tetrahydrofuran
Concen: 4.464 ug/l
RT: 7.54 min Scan# 925
Delta R.T. 0.01 min
Lab File: VW008311.D
Acq: 16 Jan 2019 16:29

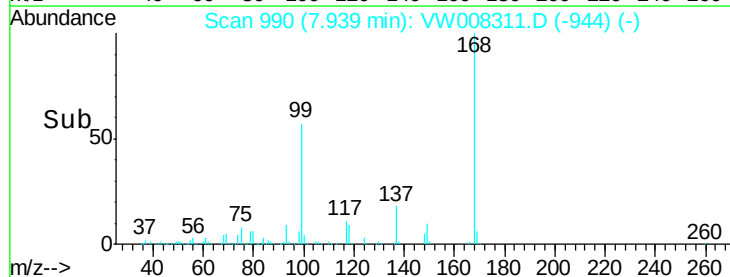
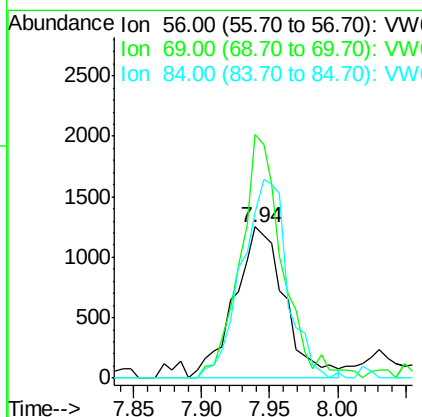
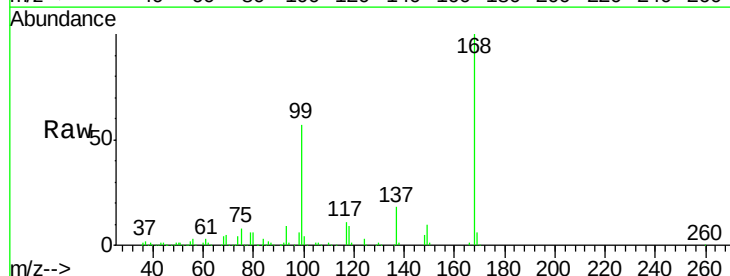
Instrument :
MSVOA_W
ClientSampleId :
EO-01-011519-B

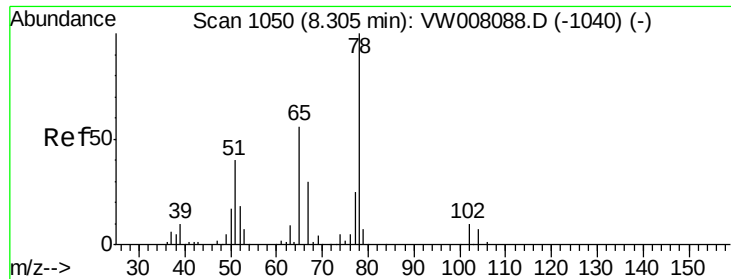
Tot Ion: 42 Resp: 981
Ion Ratio Lower Upper
42 100
72 28.4 32.4 48.6#
71 15.4 31.3 46.9#



#31
Cyclohexane
Concen: 1.296 ug/l
RT: 7.94 min Scan# 990
Delta R.T. -0.02 min
Lab File: VW008311.D
Acq: 16 Jan 2019 16:29

Tgt Ion: 56 Resp: 3226
Ion Ratio Lower Upper
56 100
69 160.9 26.2 39.4#
84 109.6 67.4 101.2#

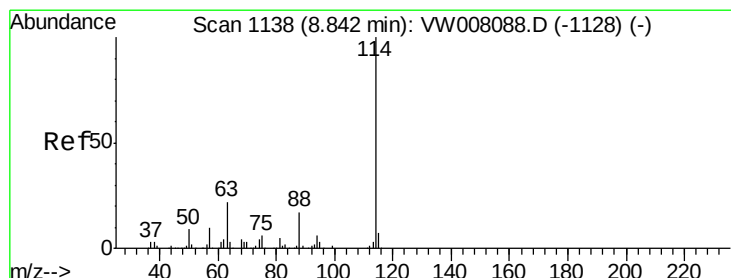
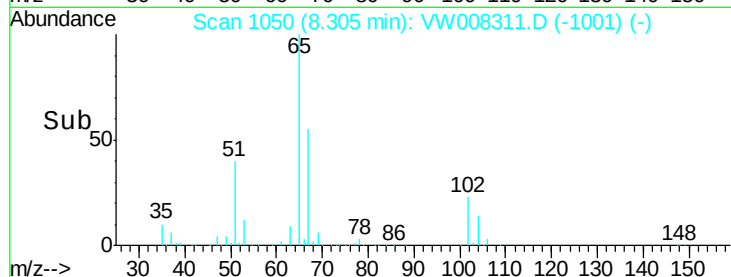
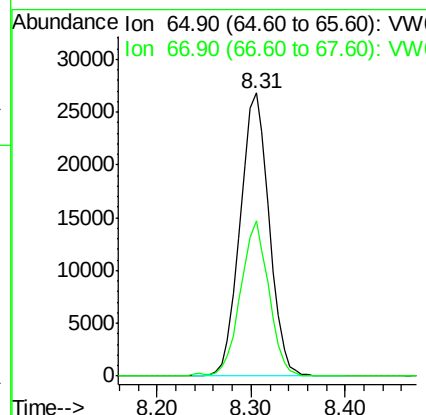
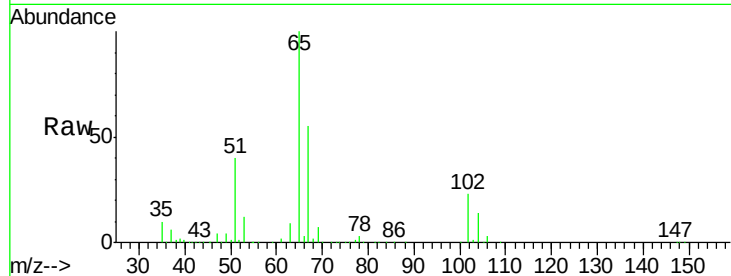




#33
 1,2-Dichloroethane-d4
 Concen: 48.814 ug/l
 RT: 8.31 min Scan# 1050
 Delta R.T. -0.00 min
 Lab File: VW008311.D
 Acq: 16 Jan 2019 16:29

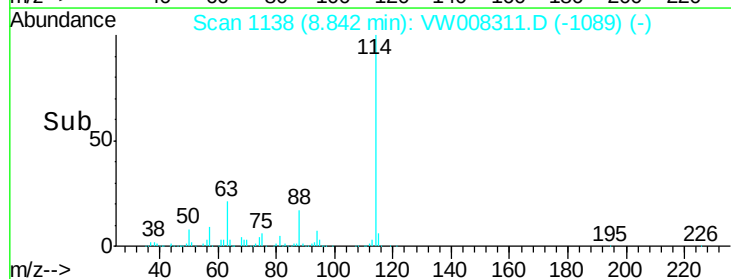
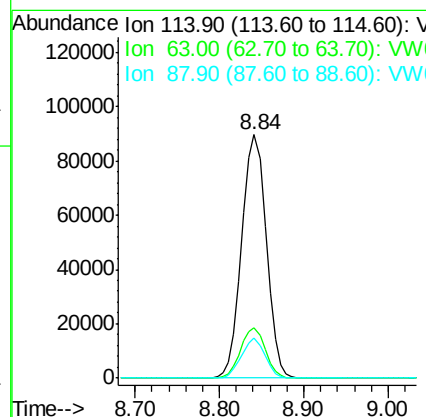
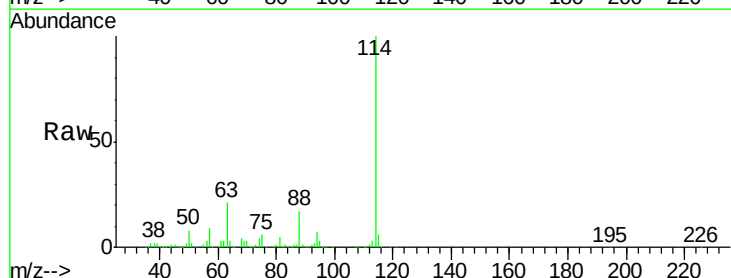
Instrument :
 MSVOA_W
 ClientSampleId :
 EO-01-011519-B

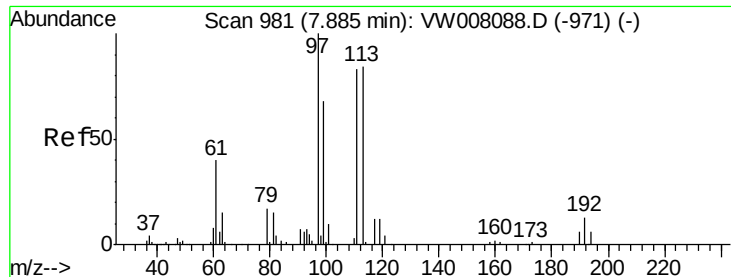
Tot Ion: 65 Resp: 57724
 Ion Ratio Lower Upper
 65 100
 67 53.3 0.0 106.8



#34
 1,4-Difluorobenzene
 Concen: 50.000 ug/l
 RT: 8.84 min Scan# 1138
 Delta R.T. -0.00 min
 Lab File: VW008311.D
 Acq: 16 Jan 2019 16:29

Tgt Ion: 114 Resp: 176250
 Ion Ratio Lower Upper
 114 100
 63 20.6 0.0 43.4
 88 16.6 0.0 33.4





#35

Dibromofluoromethane

Concen: 54.654 ug/l

RT: 7.88 min Scan# 981

Delta R.T. -0.00 min

Lab File: VW008311.D

Acq: 16 Jan 2019 16:29

Instrument :

MSVOA_W

ClientSampleId :

EO-01-011519-B

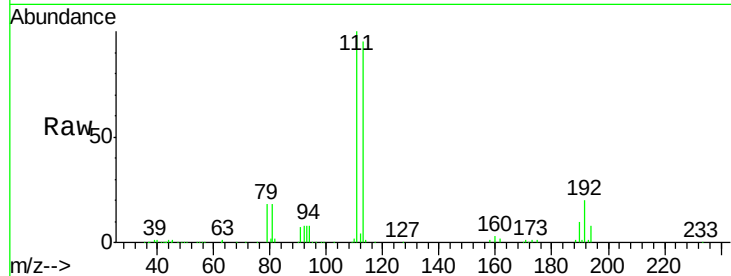
Tot Ion:113 Resp: 56182

Ion Ratio Lower Upper

113 100

111 104.9 81.8 122.8

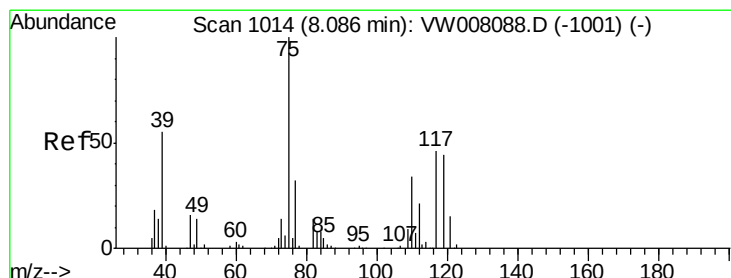
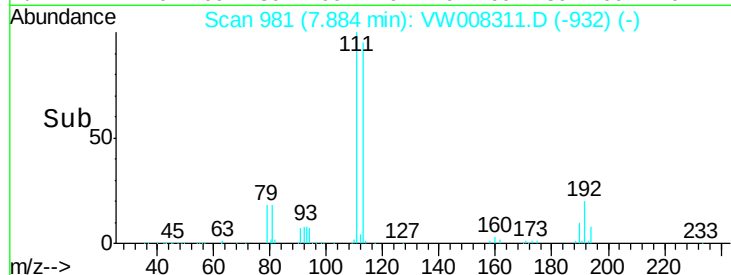
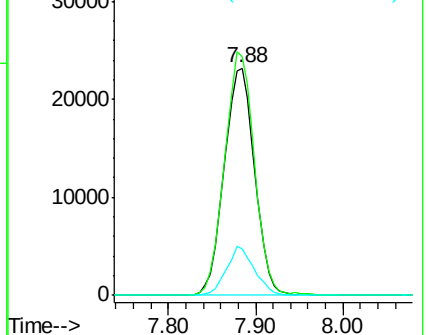
192 19.8 12.8 19.2#



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: 4.499 ug/l

RT: 7.95 min Scan# 991

Delta R.T. -0.14 min

Lab File: VW008311.D

Acq: 16 Jan 2019 16:29

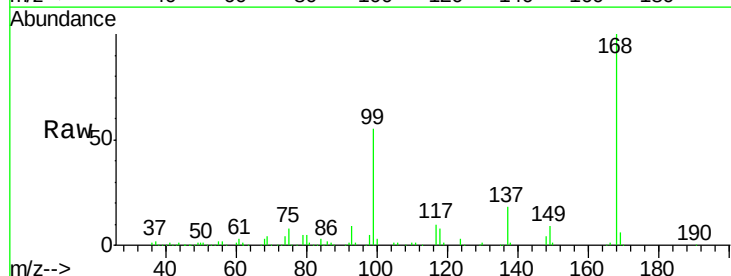
Tgt Ion: 75 Resp: 8169

Ion Ratio Lower Upper

75 100

110 9.6 17.1 51.3#

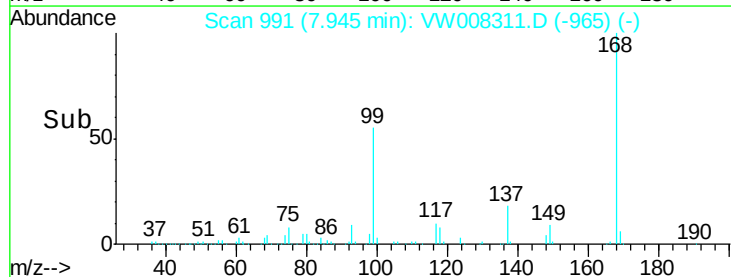
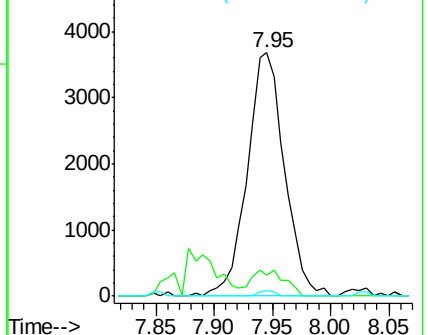
77 1.0 25.5 38.3#

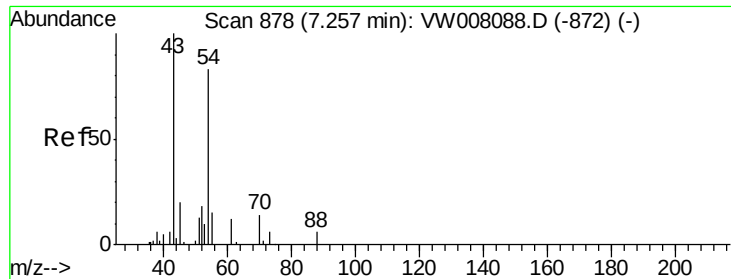


Abundance Ion 74.90 (74.60 to 75.60): VW

Ion 109.90 (109.60 to 110.60): V

Ion 76.90 (76.60 to 77.60): VW

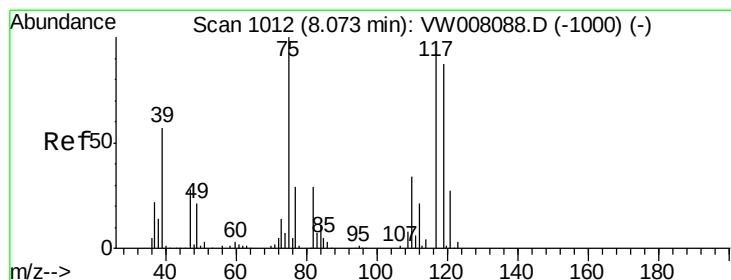
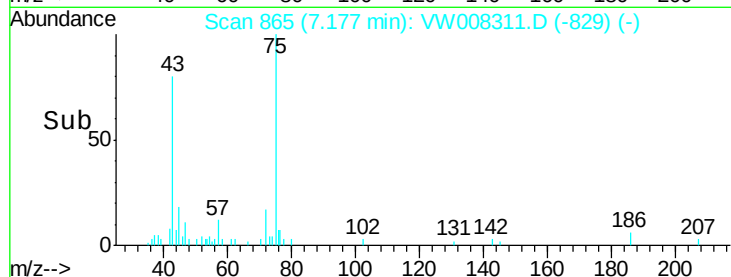
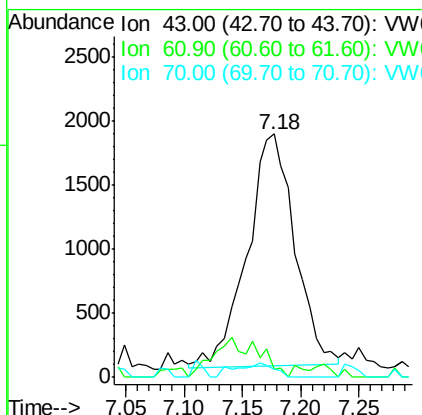
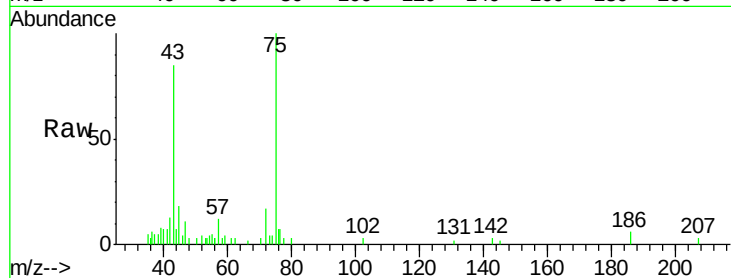




#37
Ethyl Acetate
Concen: 7.056 ug/l
RT: 7.18 min Scan# 865
Delta R.T. -0.08 min
Lab File: VW008311.D
Acq: 16 Jan 2019 16:29

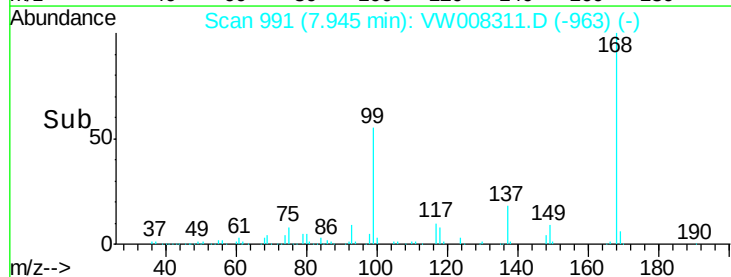
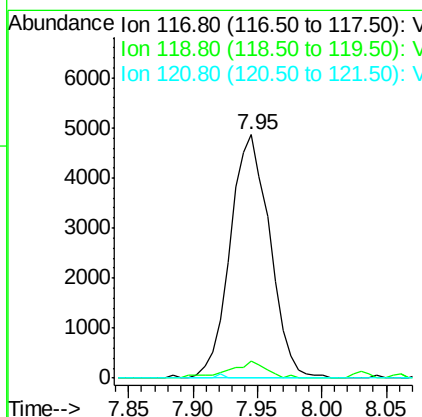
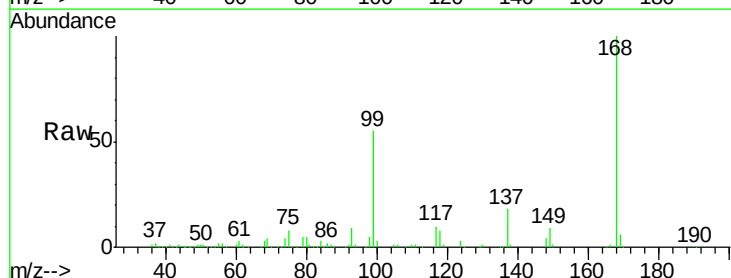
Instrument :
MSVOA_W
ClientSampleId :
EO-01-011519-B

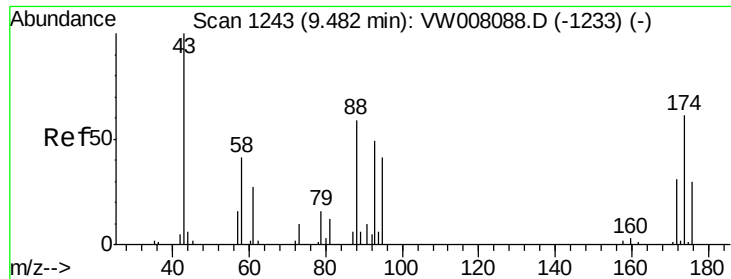
Tot Ion: 43 Resp: 5132
Ion Ratio Lower Upper
43 100
61 0.0 10.6 16.0#
70 5.0 8.9 13.3#



#38
Carbon Tetrachloride
Concen: 6.260 ug/l
RT: 7.95 min Scan# 991
Delta R.T. -0.13 min
Lab File: VW008311.D
Acq: 16 Jan 2019 16:29

Tgt Ion: 117 Resp: 10402
Ion Ratio Lower Upper
117 100
119 7.1 75.8 113.8#
121 0.0 23.7 35.5#

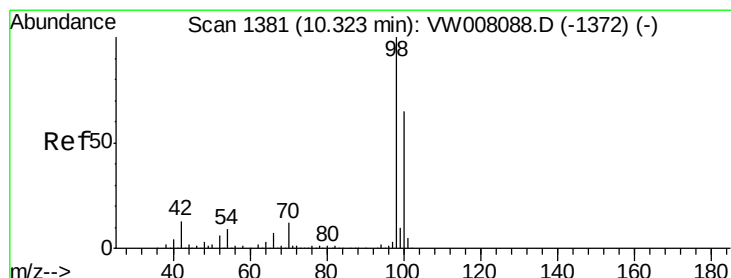
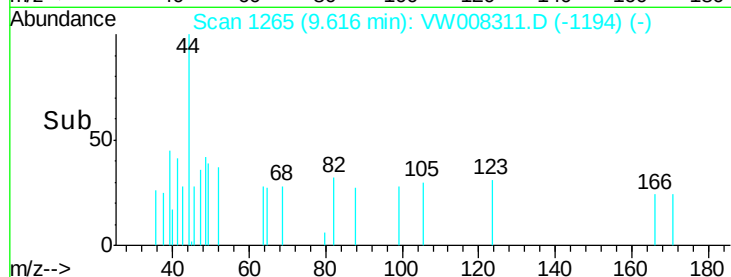
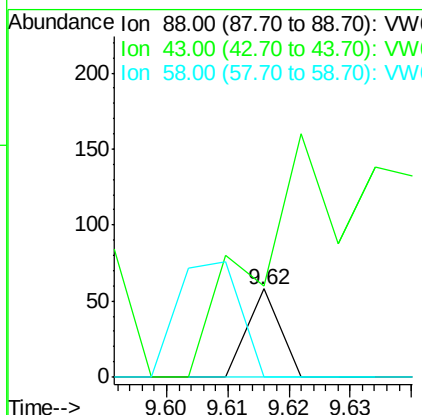
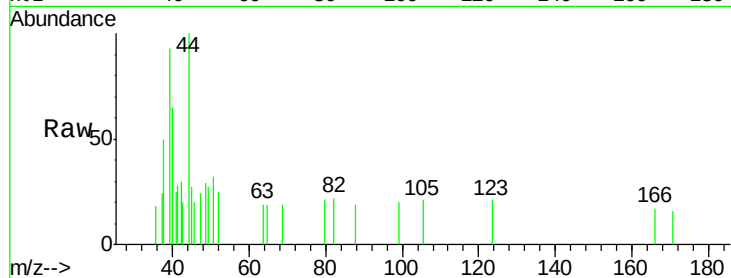




#49
1,4-Dioxane
Concen: 2.178 ug/l
RT: 9.62 min Scan# 1265
Delta R.T. 0.13 min
Lab File: VW008311.D
Acq: 16 Jan 2019 16:29

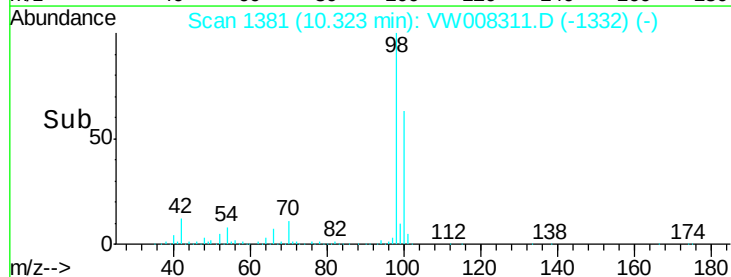
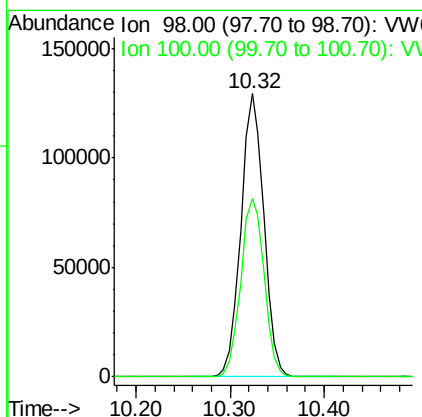
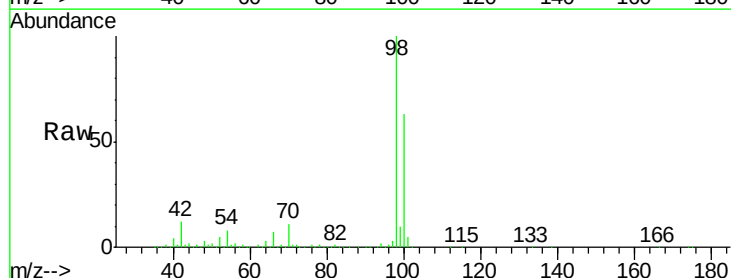
Instrument :
MSVOA_W
ClientSampleId :
EO-01-011519-B

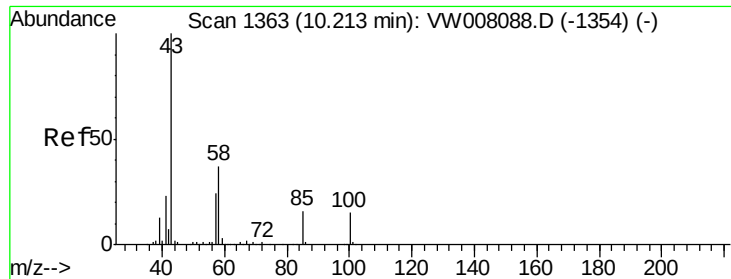
Tot Ion: 88 Resp: 21
Ion Ratio Lower Upper
88 100
43 0.0 0.0 0.0
58 257.1 61.7 92.5#



#50
Toluene-d8
Concen: 50.883 ug/l
RT: 10.32 min Scan# 1381
Delta R.T. -0.00 min
Lab File: VW008311.D
Acq: 16 Jan 2019 16:29

Tgt Ion: 98 Resp: 219494
Ion Ratio Lower Upper
98 100
100 64.3 51.7 77.5





#51

4-Methyl-2-Pentanone

Concen: 1.111 ug/l

RT: 10.21 min Scan# 1362

Delta R.T. -0.01 min

Lab File: VW008311.D

Acq: 16 Jan 2019 16:29

Instrument :

MSVOA_W

ClientSampleId :

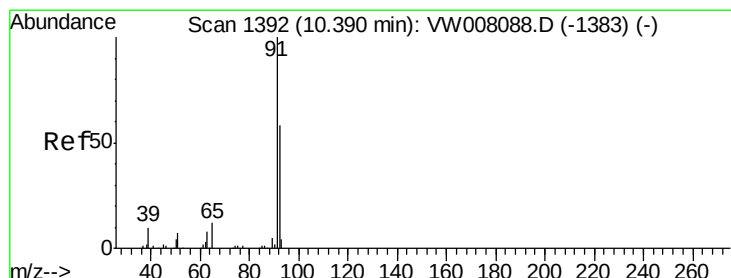
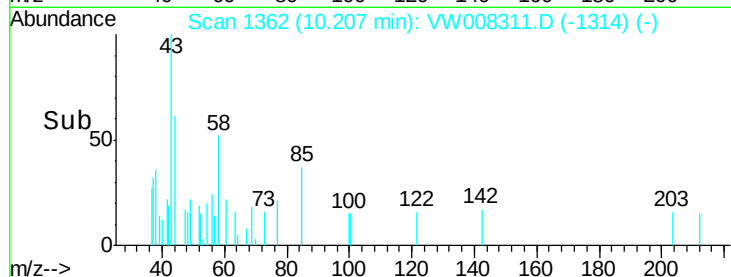
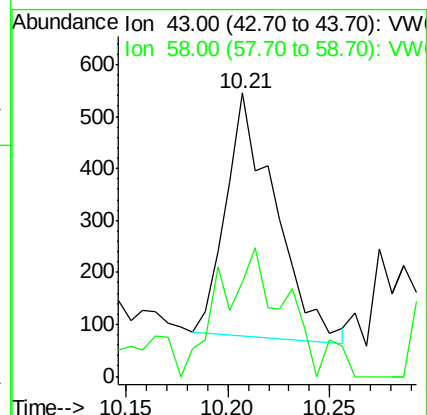
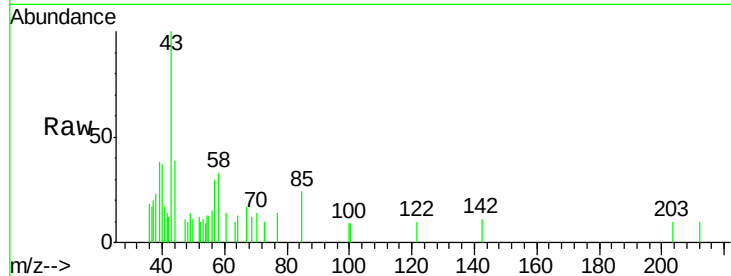
EO-01-011519-B

Tot Ion: 43 Resp: 782

Ion Ratio Lower Upper

43 100

58 65.9 30.6 46.0#



#52

Toluene

Concen: 10.940 ug/l

RT: 10.39 min Scan# 1392

Delta R.T. -0.00 min

Lab File: VW008311.D

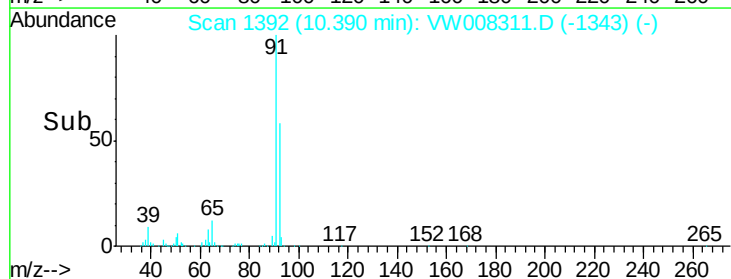
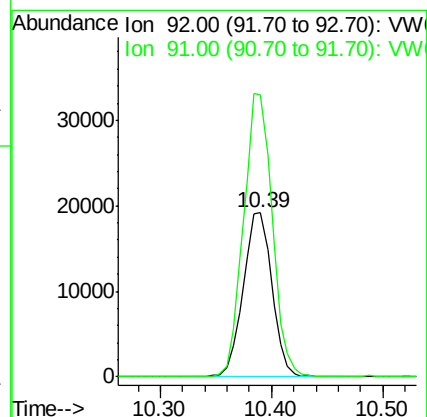
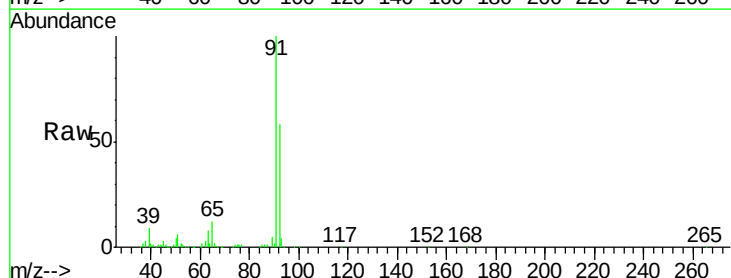
Acq: 16 Jan 2019 16:29

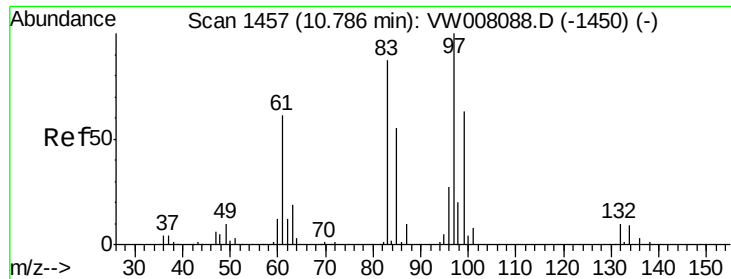
Tgt Ion: 92 Resp: 34404

Ion Ratio Lower Upper

92 100

91 173.1 137.0 205.4

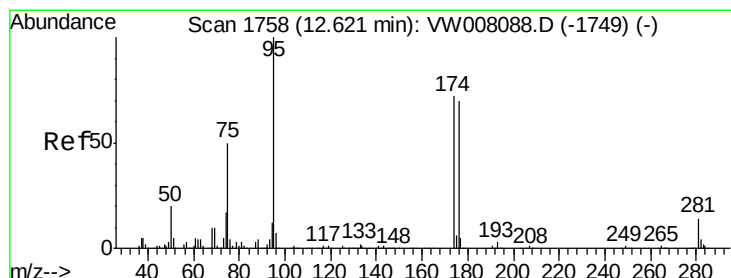
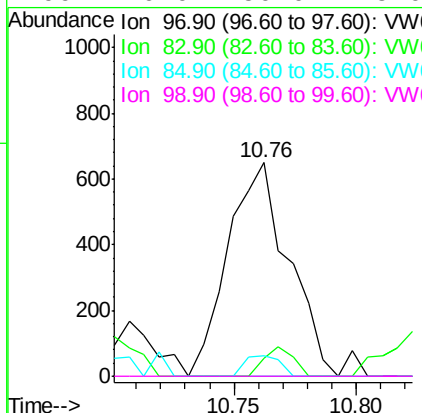
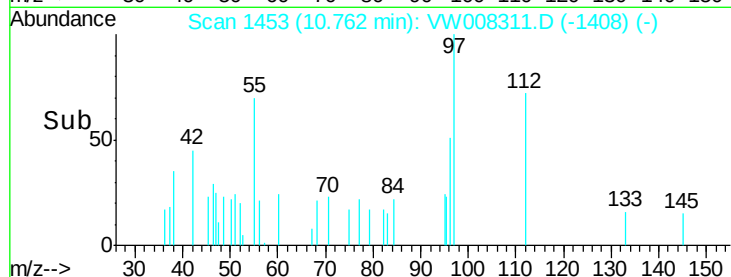
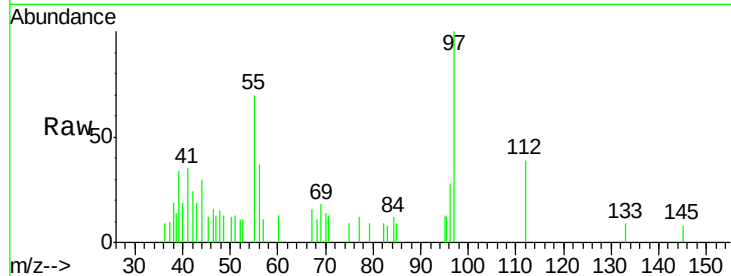




#55
 1,1,2-Trichloroethane
 Concen: 1.326 ug/l
 RT: 10.76 min Scan# 1453
 Delta R.T. -0.02 min
 Lab File: VW008311.D
 Acq: 16 Jan 2019 16:29

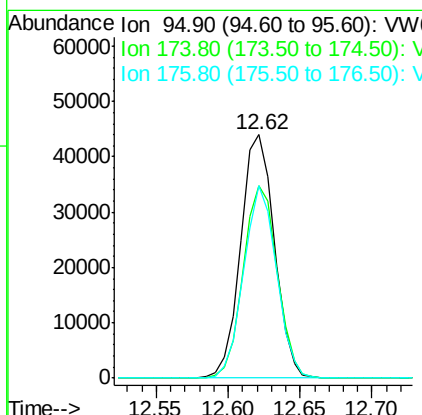
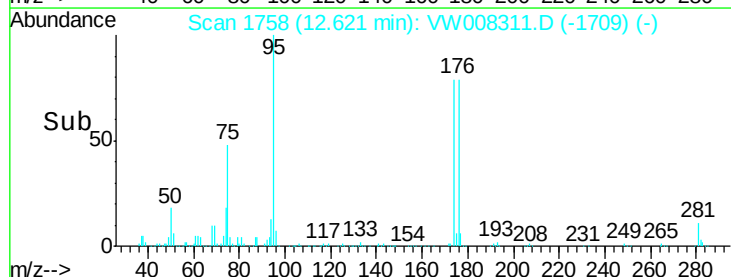
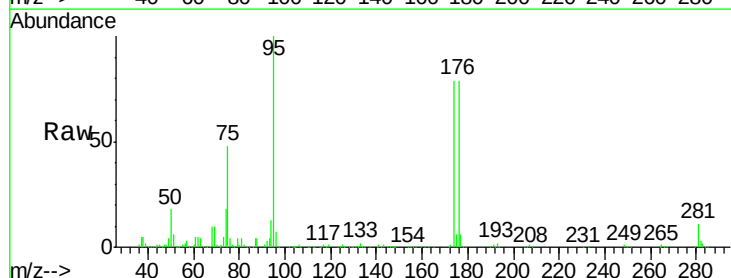
Instrument :
 MSVOA_W
 ClientSampleId :
 EO-01-011519-B

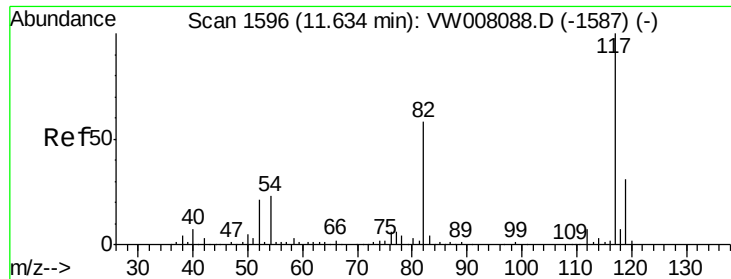
Tot Ion: 97 Resp: 1116
 Ion Ratio Lower Upper
 97 100
 83 8.2 69.3 103.9#
 85 9.4 43.8 65.6#
 99 0.0 50.0 75.0#



#62
 4-Bromofluorobenzene
 Concen: 45.833 ug/l
 RT: 12.62 min Scan# 1758
 Delta R.T. -0.00 min
 Lab File: VW008311.D
 Acq: 16 Jan 2019 16:29

Tgt Ion: 95 Resp: 70879
 Ion Ratio Lower Upper
 95 100
 174 80.1 0.0 143.0
 176 77.3 0.0 140.2

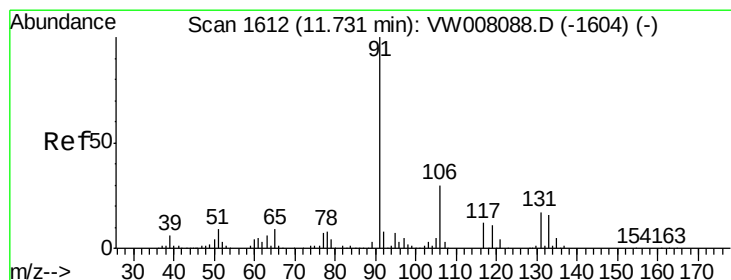
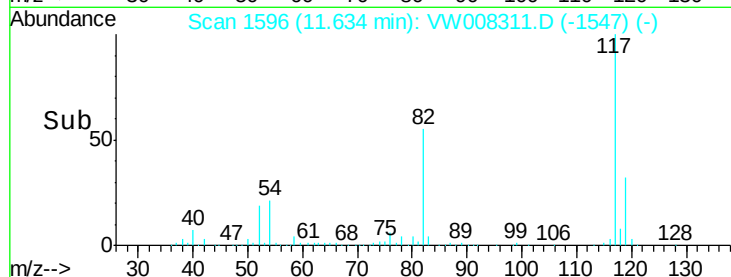
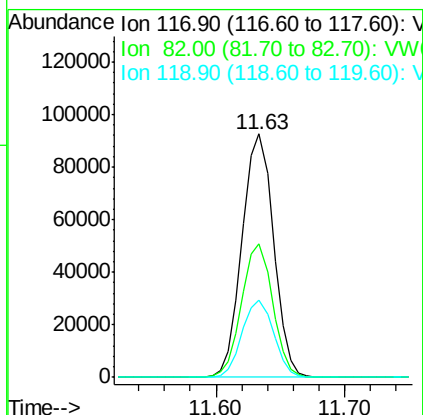
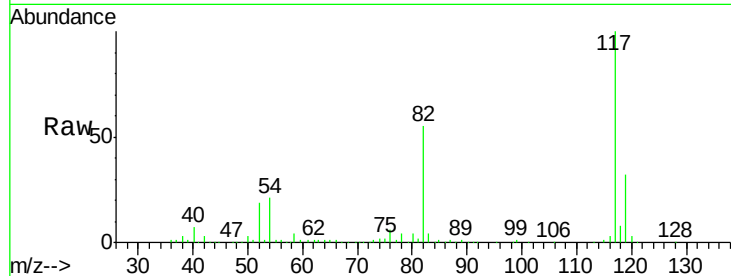




#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.63 min Scan# 1596
Delta R.T. -0.00 min
Lab File: VW008311.D
Acq: 16 Jan 2019 16:29

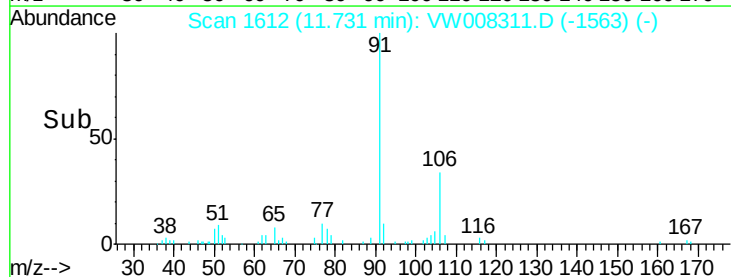
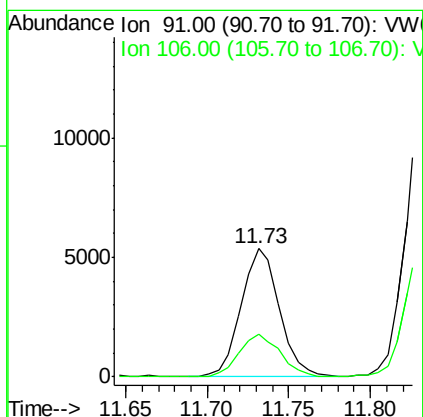
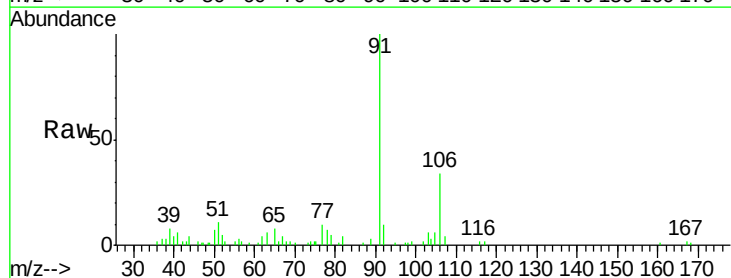
Instrument :
MSVOA_W
ClientSampleId :
EO-01-011519-B

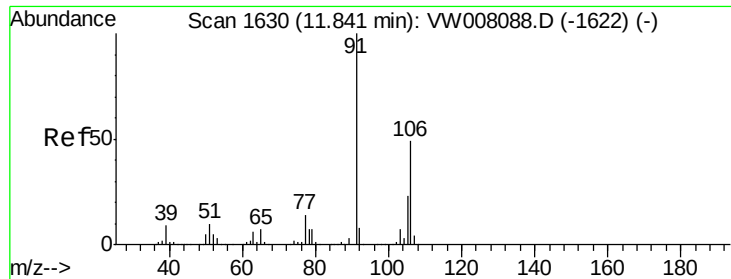
Tot Ion:117 Resp: 156737
Ion Ratio Lower Upper
117 100
82 54.6 46.4 69.6
119 31.9 24.7 37.1



#67
Ethyl Benzene
Concen: 1.443 ug/l
RT: 11.73 min Scan# 1612
Delta R.T. -0.00 min
Lab File: VW008311.D
Acq: 16 Jan 2019 16:29

Tgt Ion: 91 Resp: 8768
Ion Ratio Lower Upper
91 100
106 33.5 24.2 36.4

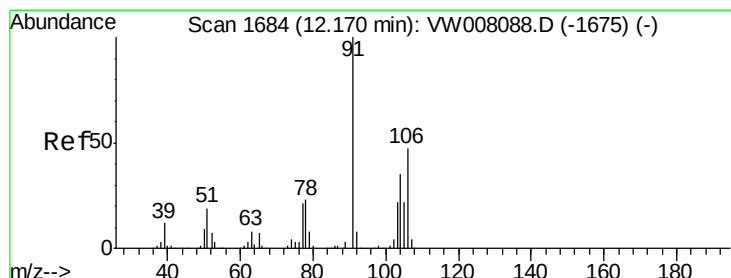
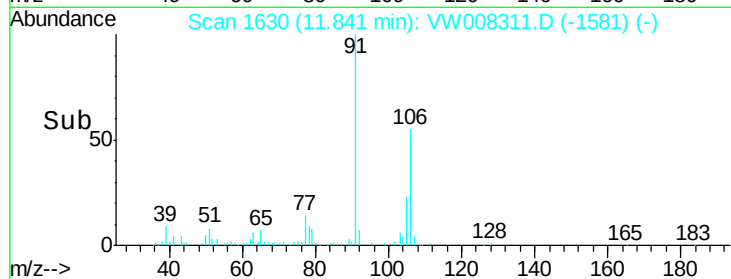
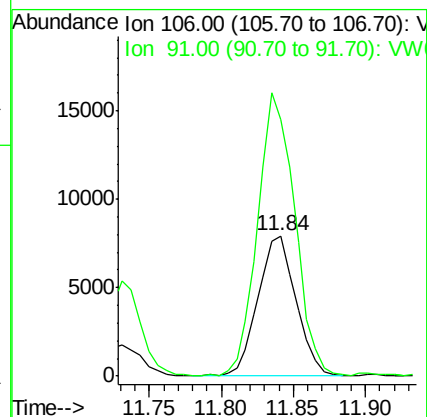
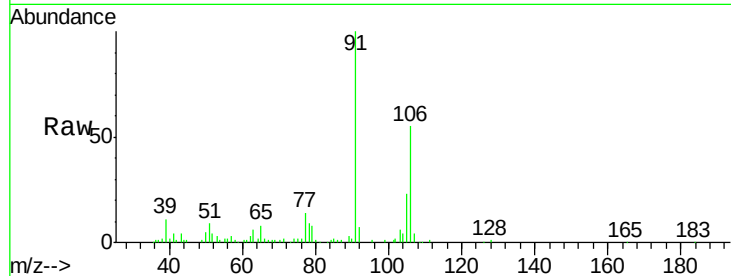




#68
m/p-Xylenes
Concen: 6.252 ug/l
RT: 11.84 min Scan# 1630
Delta R.T. -0.00 min
Lab File: VW008311.D
Acq: 16 Jan 2019 16:29

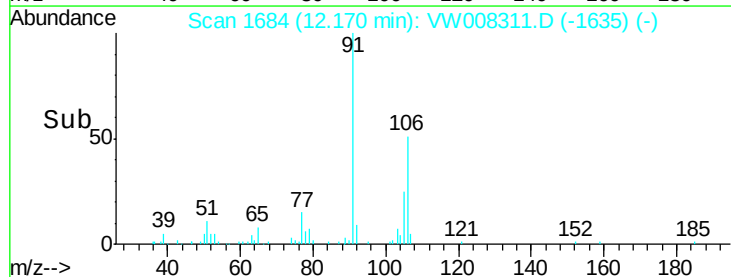
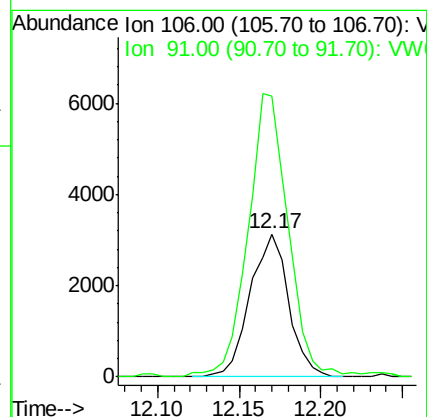
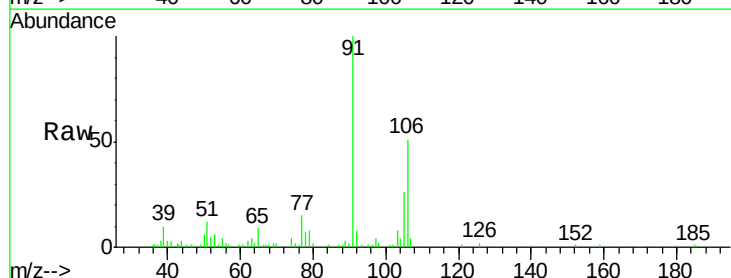
Instrument :
MSVOA_W
ClientSampled :
EO-01-011519-B

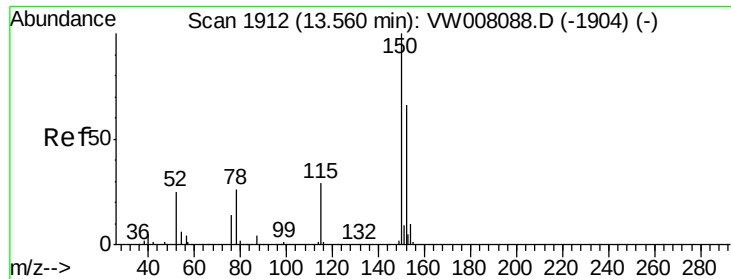
Tot Ion:106 Resp: 14498
Ion Ratio Lower Upper
106 100
91 197.5 162.4 243.6



#69
o-Xylene
Concen: 2.394 ug/l
RT: 12.17 min Scan# 1684
Delta R.T. -0.00 min
Lab File: VW008311.D
Acq: 16 Jan 2019 16:29

Tgt Ion:106 Resp: 5142
Ion Ratio Lower Upper
106 100
91 206.4 107.8 323.6

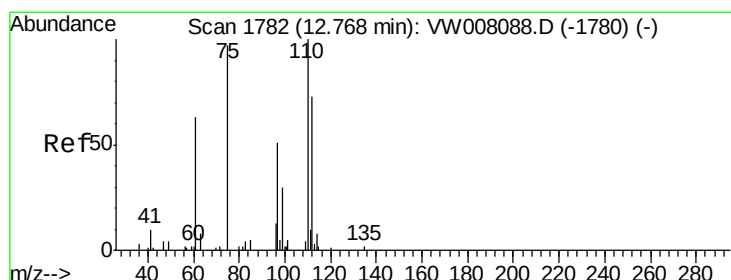
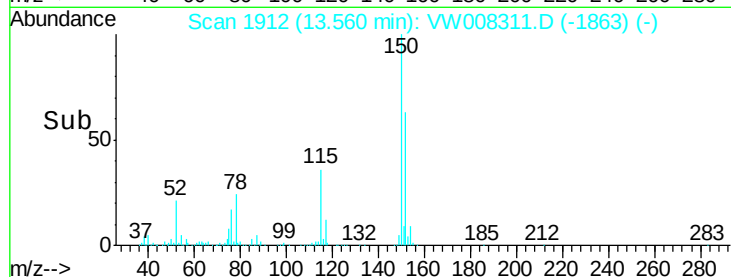
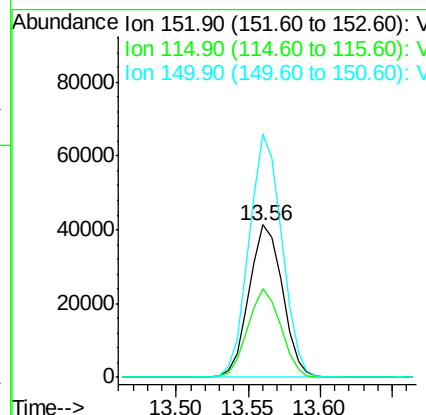
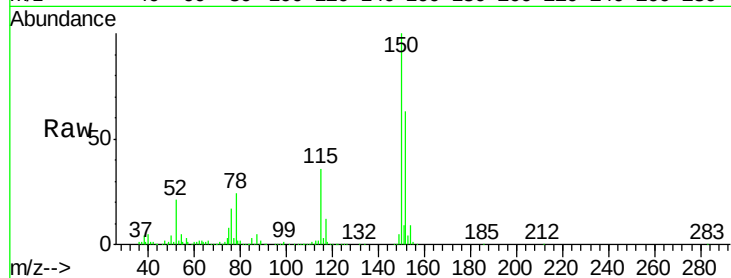




#72
 1,4-Dichlorobenzene-d4
 Concen: 50.000 ug/l
 RT: 13.56 min Scan# 1912
 Delta R.T. -0.00 min
 Lab File: VW008311.D
 Acq: 16 Jan 2019 16:29

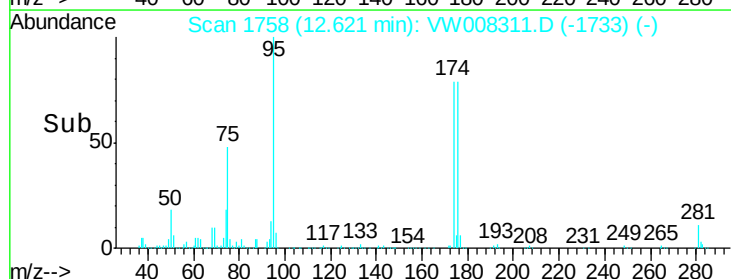
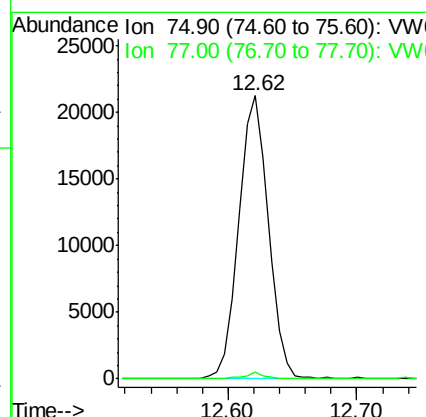
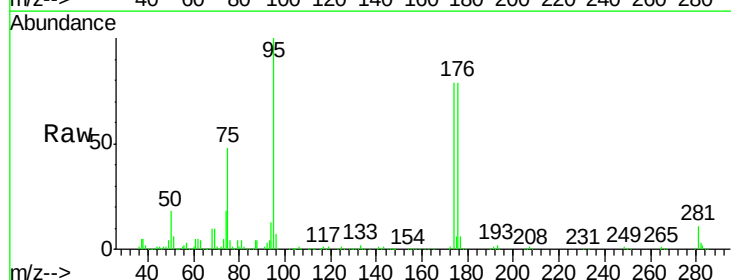
Instrument :
 MSVOA_W
 ClientSampleId :
 EO-01-011519-B

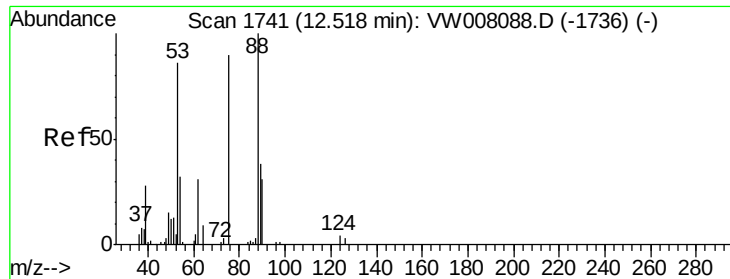
Tot Ion:152 Resp: 66477
 Ion Ratio Lower Upper
 152 100
 115 58.0 30.8 92.4
 150 156.3 0.0 350.2



#76
 1,2,3-Trichloropropane
 Concen: 56.054 ug/l
 RT: 12.62 min Scan# 1758
 Delta R.T. -0.15 min
 Lab File: VW008311.D
 Acq: 16 Jan 2019 16:29

Tgt Ion: 75 Resp: 33969
 Ion Ratio Lower Upper
 75 100
 77 1.8 179.4 538.2#





#81

trans-1,4-Dichloro-2-butene

Concen: 130.532 ug/l

RT: 12.62 min Scan# 1758

Delta R.T. 0.10 min

Lab File: VW008311.D

Acq: 16 Jan 2019 16:29

Instrument :

MSVOA_W

ClientSampleId :

EO-01-011519-B

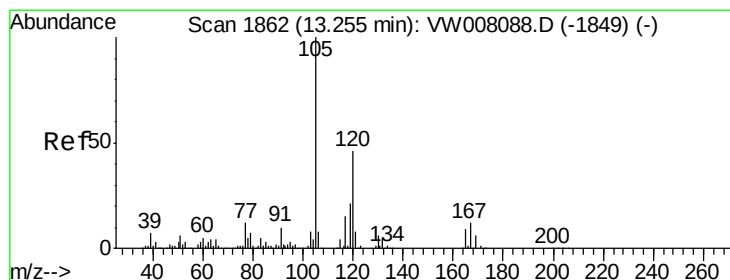
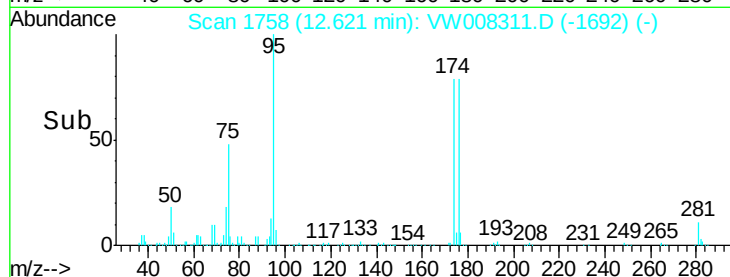
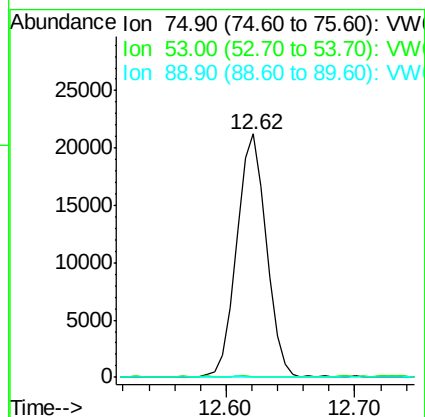
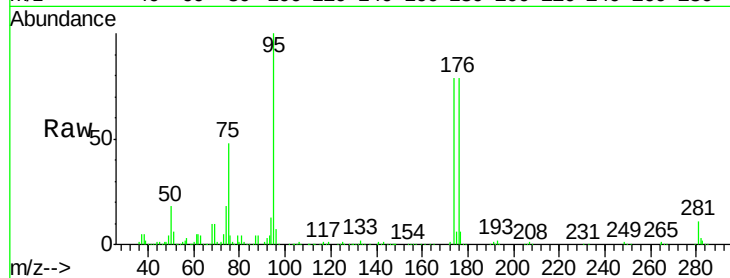
Tot Ion: 75 Resp: 33969

Ion Ratio Lower Upper

75 100

53 0.3 78.8 118.2#

89 0.1 35.4 53.2#



#84

1,2,4-Trimethylbenzene

Concen: 1.501 ug/l

RT: 13.26 min Scan# 1862

Delta R.T. -0.00 min

Lab File: VW008311.D

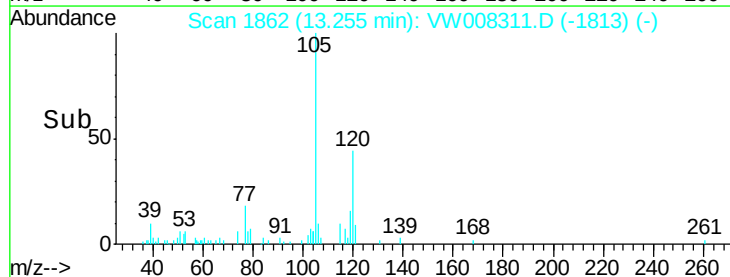
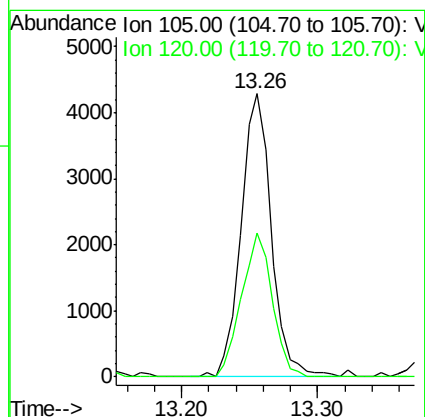
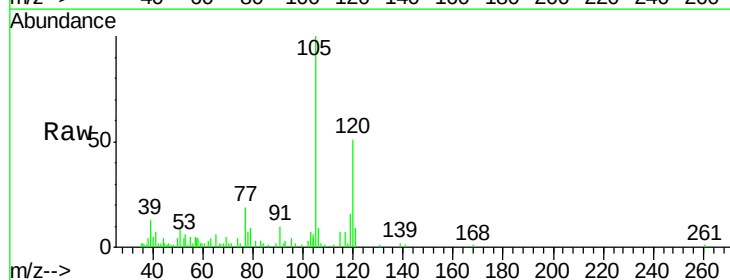
Acq: 16 Jan 2019 16:29

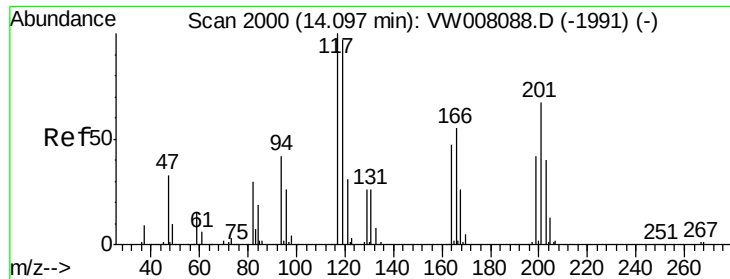
Tgt Ion: 105 Resp: 6638

Ion Ratio Lower Upper

105 100

120 51.9 22.7 68.1





#90

Hexachloroethane

Concen: 1.024 ug/l

RT: 14.10 min Scan# 2000

Delta R.T. -0.00 min

Lab File: VW008311.D

Acq: 16 Jan 2019 16:29

Instrument :

MSVOA_W

ClientSampleId :

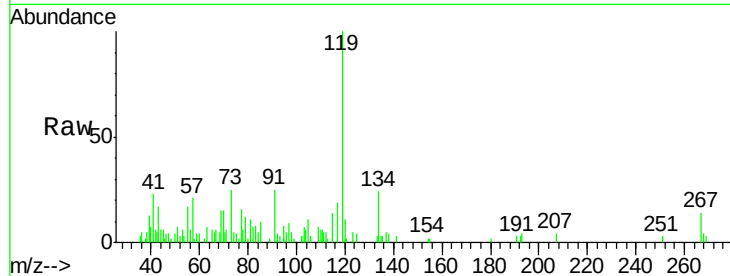
EO-01-011519-B

Tot Ion:117 Resp: 830

Ion Ratio Lower Upper

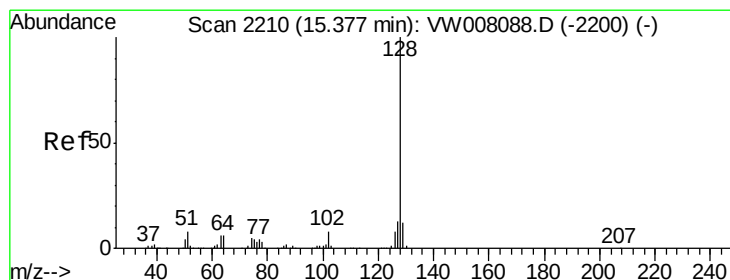
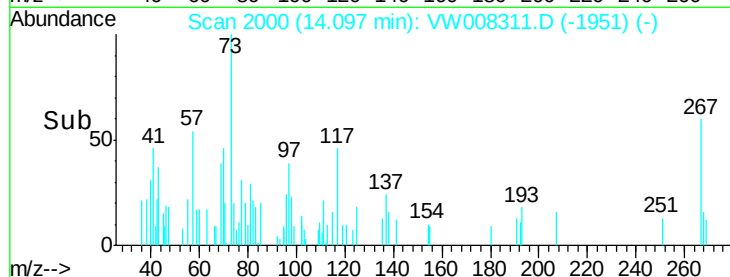
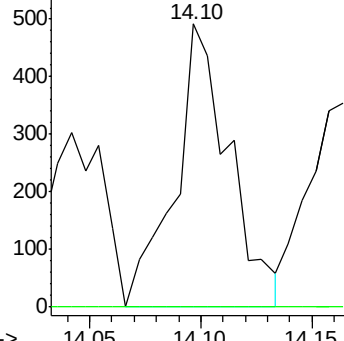
117 100

201 0.0 33.0 98.9#



Abundance Ion 116.80 (116.50 to 117.50): V

Ion 200.70 (200.40 to 201.40): V



#95

Naphthalene

Concen: 3.201 ug/l

RT: 15.37 min Scan# 2209

Delta R.T. -0.01 min

Lab File: VW008311.D

Acq: 16 Jan 2019 16:29

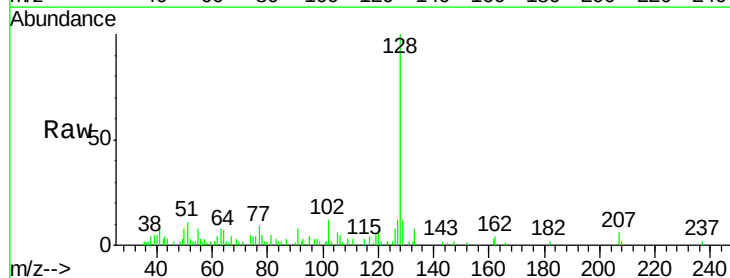
Tgt Ion:128 Resp: 7801

Ion Ratio Lower Upper

128 100

127 14.0 11.0 16.4

129 15.4 9.0 13.6#



Abundance Ion 128.00 (127.70 to 128.70): V

Ion 127.00 (126.70 to 127.70): V

Ion 129.00 (128.70 to 129.70): V

