

Data Path : Z:\VOASRV\HPCHEM1\MSVOA W\DATA\VW112218\
 Data File : VW007030.D
 Acq On : 22 Nov 2018 06:17
 Operator : VAY/AP
 Sample : J5993-03
 Misc : 5.00G/5ML/MSVOA W/SOIL
 ALS Vial : 43 Sample Multiplier: 1

Instrument :
 MSVOA_W
 ClientSampleId :
 20180927-WCC-3-COMPOSITE

Quant Time: Nov 26 16:06:39 2018
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_W\METHOD\82W112118S.M
 Quant Title : SW846 8260
 QLast Update : Wed Nov 21 03:23:02 2018
 Response via : Initial Calibration

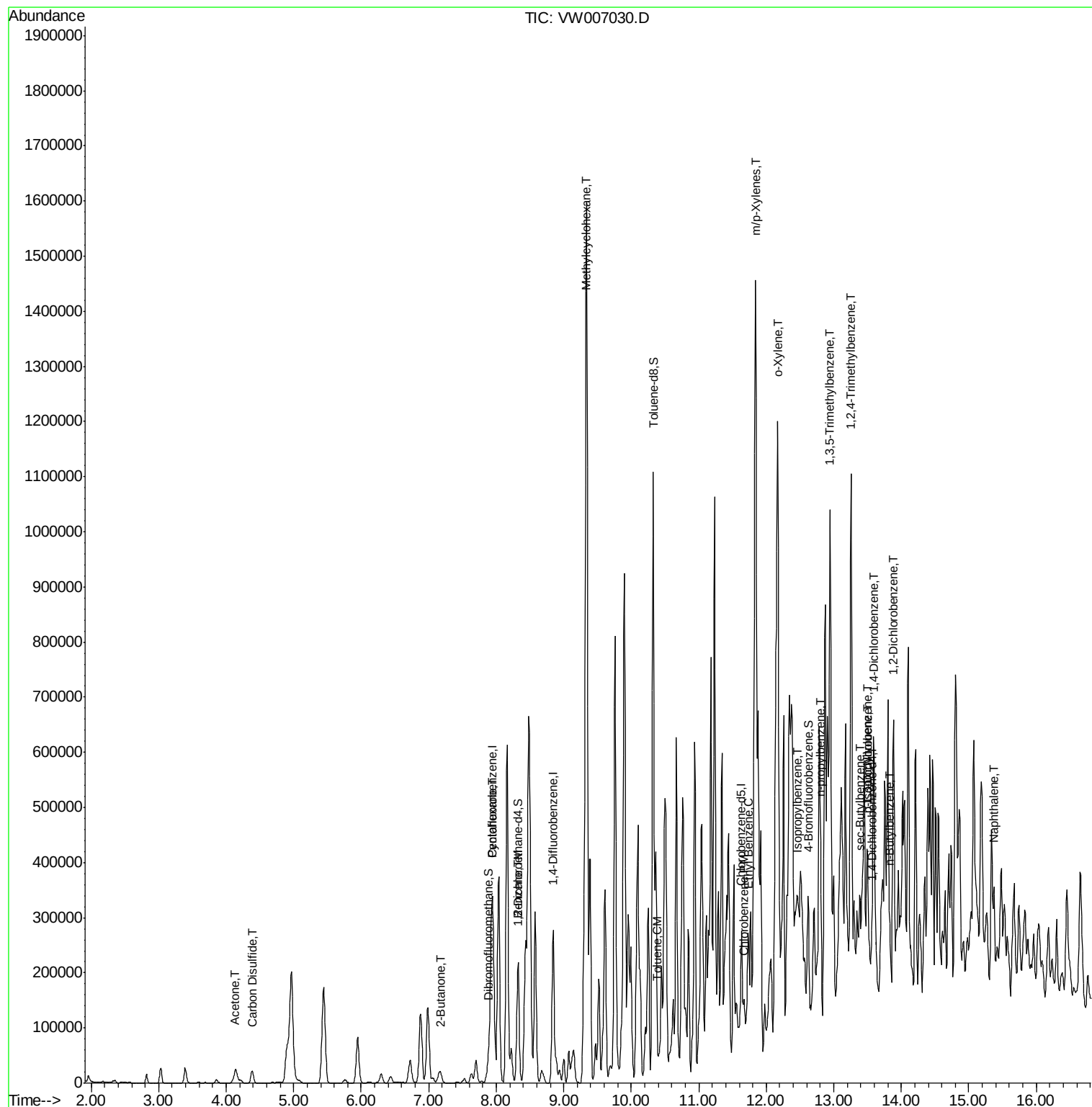
Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	7.95	168	81622	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	8.85	114	143985	50.00	ug/l	0.00
63) Chlorobenzene-d5	11.63	117	79357	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.56	152	22563	50.00	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	8.31	65	46277	57.91	ug/l	0.00
Spiked Amount	50.000		Recovery	=	115.82%	
35) Dibromofluoromethane	7.88	113	38930	47.88	ug/l	0.00
Spiked Amount	50.000		Recovery	=	95.76%	
50) Toluene-d8	10.32	98	170128	47.38	ug/l	0.00
Spiked Amount	50.000		Recovery	=	94.76%	
62) 4-Bromofluorobenzene	12.62	95	46943	33.22	ug/l	0.00
Spiked Amount	50.000		Recovery	=	66.44%	
Target Compounds						
					Qvalue	
16) Acetone	4.14	43	48974	422.118	ug/l	96
17) Carbon Disulfide	4.39	76	46419	19.434	ug/l	100
25) 2-Butanone	7.17	43	16715	84.118	ug/l #	83
31) Cyclohexane	7.95	56	124090	80.630	ug/l	94
39) Methylcyclohexane	9.34	83	594072	337.392	ug/l	94
40) Benzene	8.33	78	191330	50.376	ug/l	99
52) Toluene	10.39	92	10825	4.188	ug/l	91
65) Chlorobenzene	11.66	112	12683	7.657	ug/l	90
67) Ethyl Benzene	11.73	91	54487	17.907	ug/l	98
68) m/p-Xylenes	11.84	106	413341	346.254	ug/l	98
69) o-Xylene	12.17	106	253177	224.924	ug/l	96
73) Isopropylbenzene	12.47	105	57647	32.874	ug/l	99
78) n-propylbenzene	12.81	91	154639	72.802	ug/l	99
80) 1,3,5-Trimethylbenzene	12.95	105	243733	160.731	ug/l	100
84) 1,2,4-Trimethylbenzene	13.26	105	512120	338.973	ug/l	98
85) sec-Butylbenzene	13.39	105	55565	29.959	ug/l #	59
86) p-Isopropyltoluene	13.51	119	74885	45.766	ug/l	99
87) 1,3-Dichlorobenzene	13.50	146	3789	4.928	ug/l #	67
88) 1,4-Dichlorobenzene	13.58	146	23969	31.265	ug/l #	68
89) n-Butylbenzene	13.83	91	57099	37.081	ug/l #	74
91) 1,2-Dichlorobenzene	13.88	146	4257	6.318	ug/l #	1
95) Naphthalene	15.38	128	117588	145.808	ug/l	96

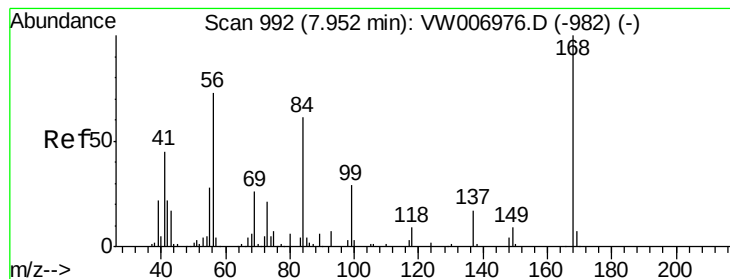
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 7.95 min Scan# 992

Delta R.T. -0.00 min

Lab File: VW007030.D

Acq: 22 Nov 2018 06:17

Instrument :

MSVOA_W

ClientSampleId :

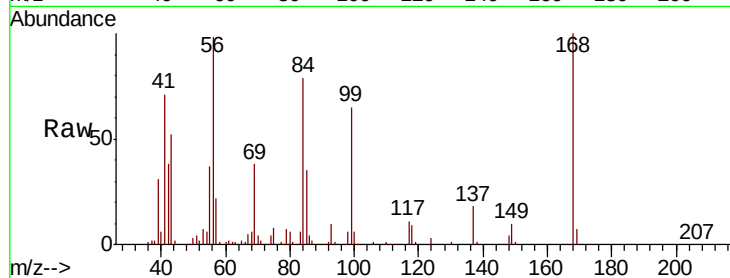
20180927-WCC-3-COMPOSITE

Tot Ion:168 Resp: 81622

Ion Ratio Lower Upper

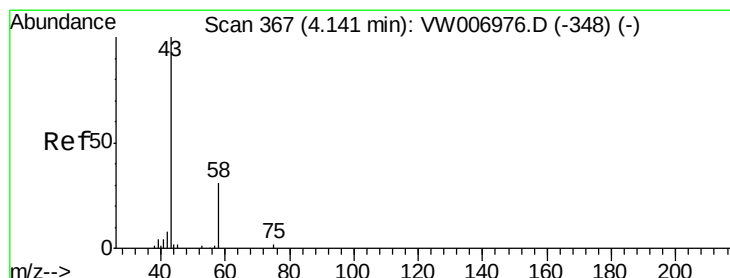
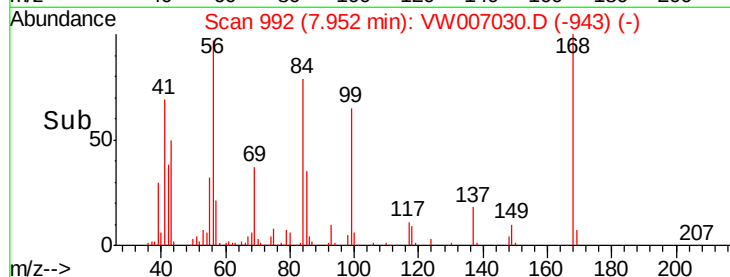
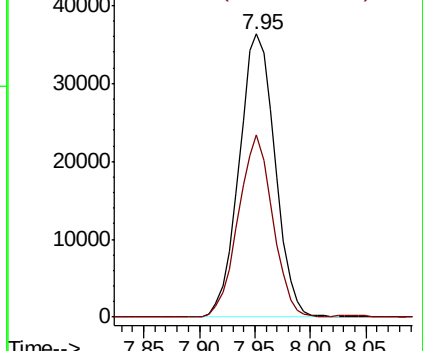
168 100

99 64.5 48.2 72.4



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VW



#16

Acetone

Concen: 422.118 ug/l

RT: 4.14 min Scan# 367

Delta R.T. -0.00 min

Lab File: VW007030.D

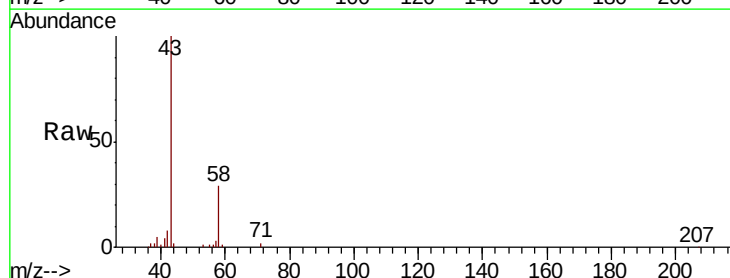
Acq: 22 Nov 2018 06:17

Tgt Ion: 43 Resp: 48974

Ion Ratio Lower Upper

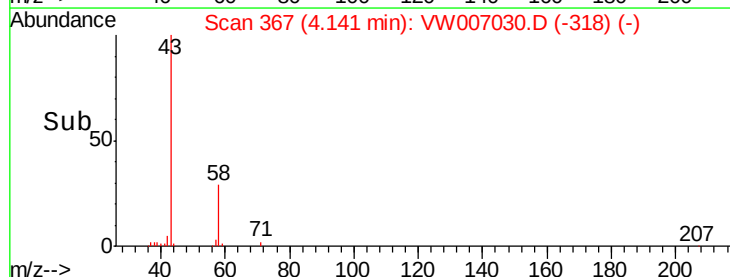
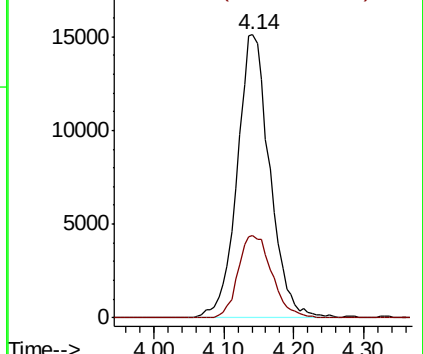
43 100

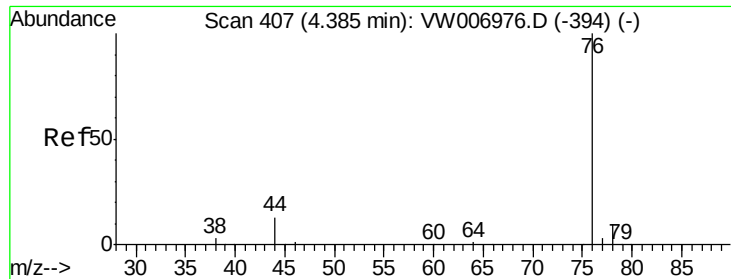
58 29.0 24.8 37.2



Abundance Ion 43.00 (42.70 to 43.70): VW

Ion 58.00 (57.70 to 58.70): VW

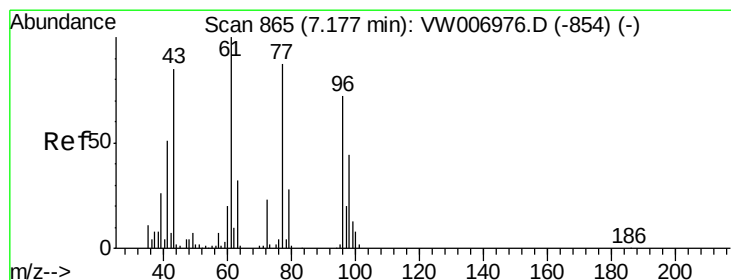
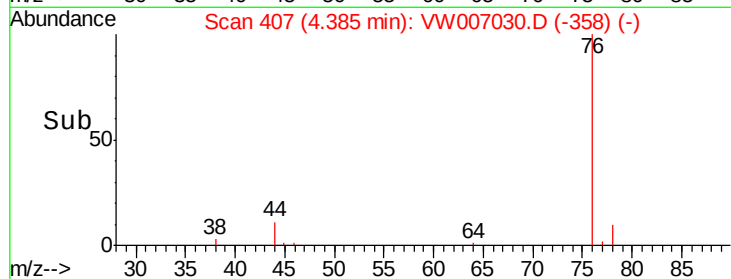
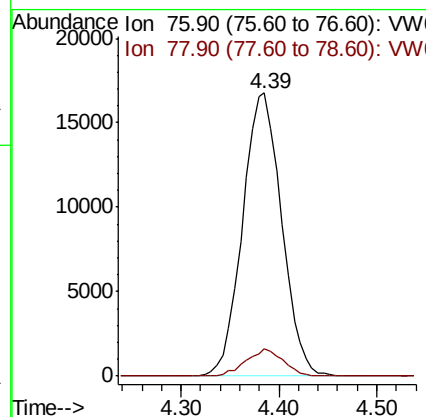
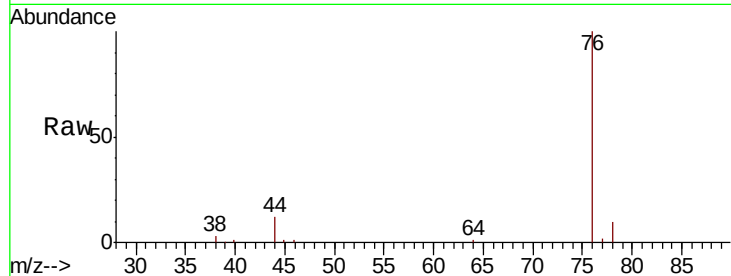




#17
Carbon Disulfide
Concen: 19.434 ug/l
RT: 4.39 min Scan# 407
Delta R.T. -0.00 min
Lab File: VW007030.D
Acq: 22 Nov 2018 06:17

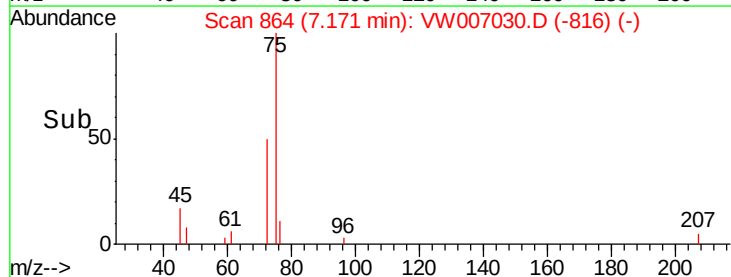
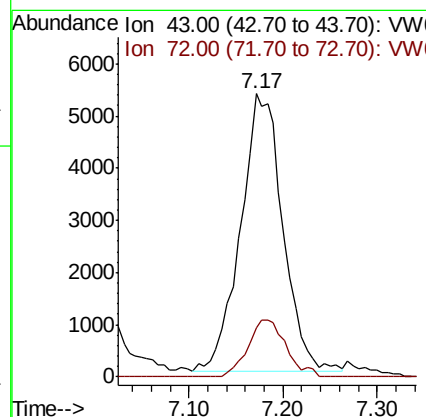
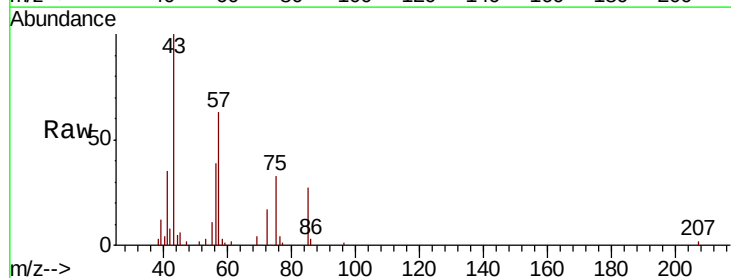
Instrument :
MSVOA_W
ClientSampleId :
20180927-WCC-3-COMPOSITE

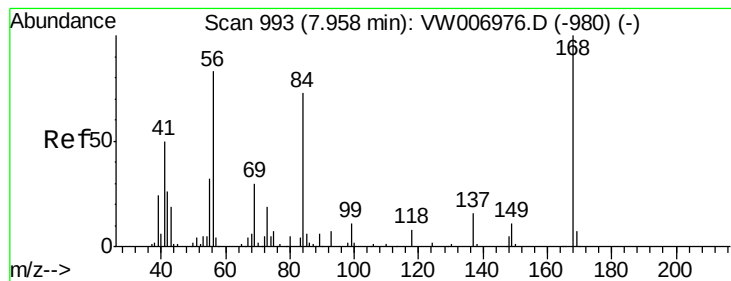
Tot Ion: 76 Resp: 46419
Ion Ratio Lower Upper
76 100
78 9.6 7.8 11.6



#25
2-Butanone
Concen: 84.118 ug/l
RT: 7.17 min Scan# 864
Delta R.T. -0.01 min
Lab File: VW007030.D
Acq: 22 Nov 2018 06:17

Tgt Ion: 43 Resp: 16715
Ion Ratio Lower Upper
43 100
72 17.7 21.3 31.9#





#31

Cyclohexane

Concen: 80.630 ug/l

RT: 7.95 min Scan# 992

Delta R.T. -0.01 min

Lab File: VW007030.D

Acq: 22 Nov 2018 06:17

Instrument :

MSVOA_W

ClientSampleId :

20180927-WCC-3-COMPOSITE

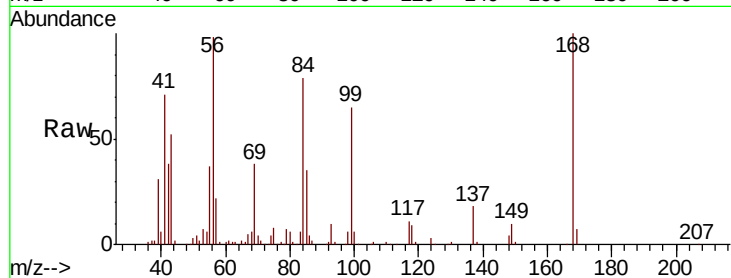
Tot Ion: 56 Resp: 124090

Ion Ratio Lower Upper

56 100

69 36.6 29.1 43.7

84 81.1 70.6 105.8

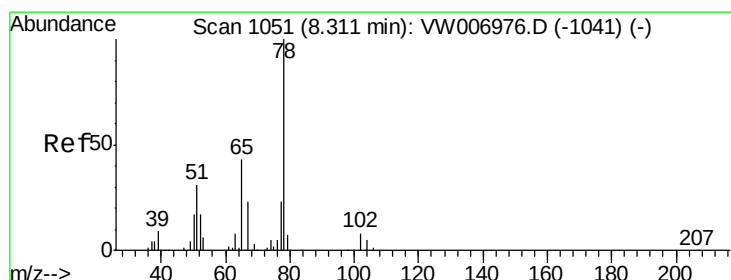
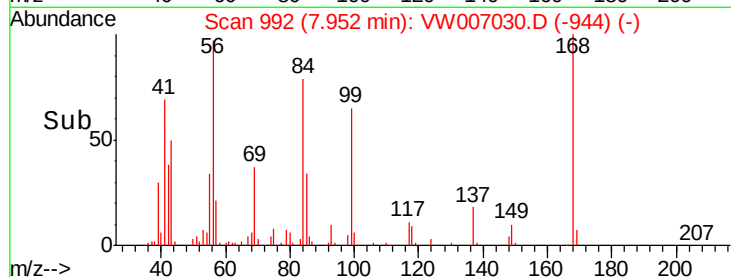
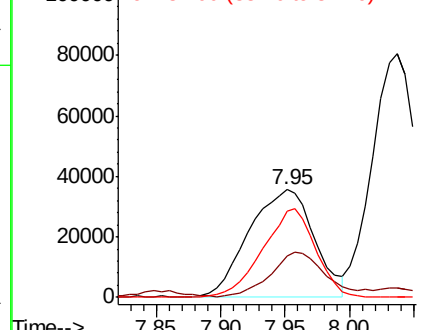


Abundance

Ion 56.00 (55.70 to 56.70): VW

Ion 69.00 (68.70 to 69.70): VW

Ion 84.00 (83.70 to 84.70): VW



#33

1,2-Dichloroethane-d4

Concen: 57.912 ug/l

RT: 8.31 min Scan# 1051

Delta R.T. -0.00 min

Lab File: VW007030.D

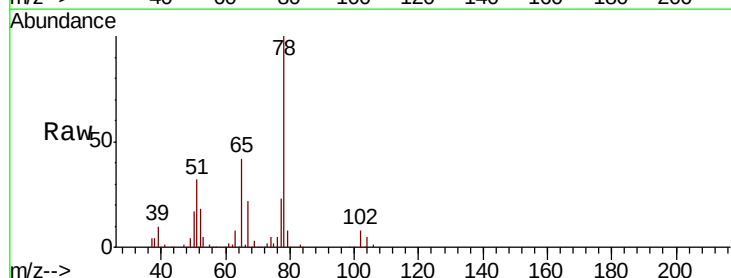
Acq: 22 Nov 2018 06:17

Tgt Ion: 65 Resp: 46277

Ion Ratio Lower Upper

65 100

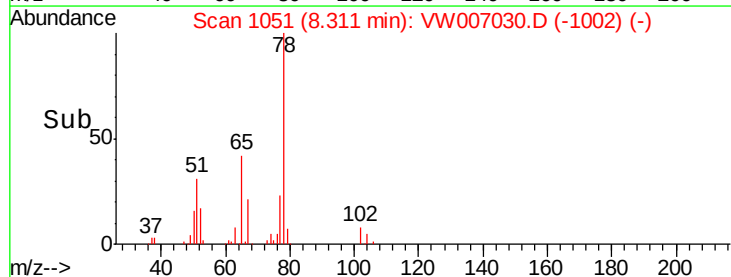
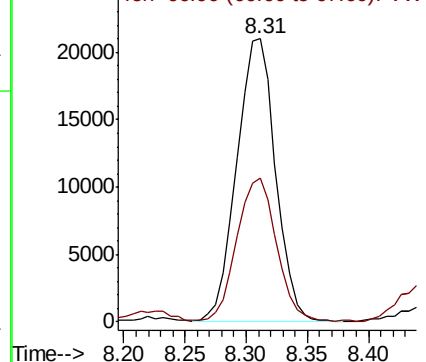
67 51.4 0.0 106.2

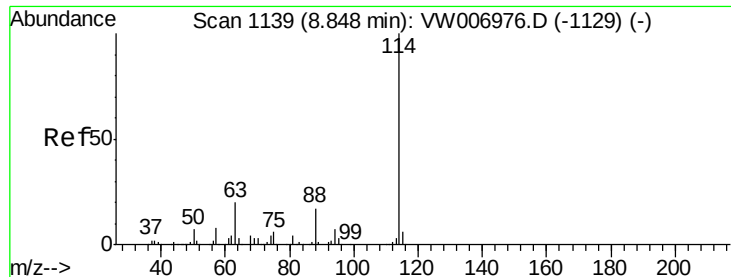


Abundance

Ion 64.90 (64.60 to 65.60): VW

Ion 66.90 (66.60 to 67.60): VW





#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 8.85 min Scan# 1139

Delta R.T. -0.00 min

Lab File: VW007030.D

Acq: 22 Nov 2018 06:17

Instrument :

MSVOA_W

ClientSampleId :

20180927-WCC-3-COMPOSITE

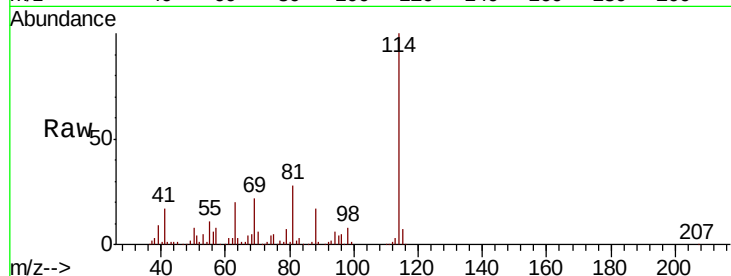
Tot Ion:114 Resp: 143985

Ion Ratio Lower Upper

114 100

63 20.1 0.0 39.4

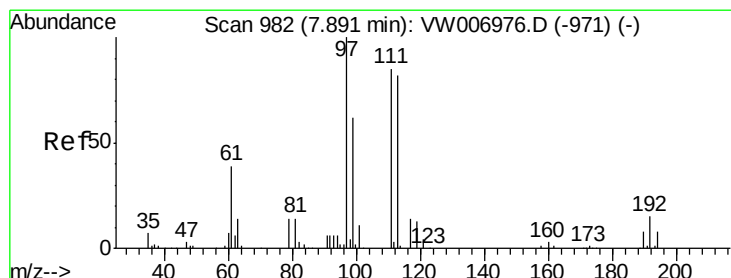
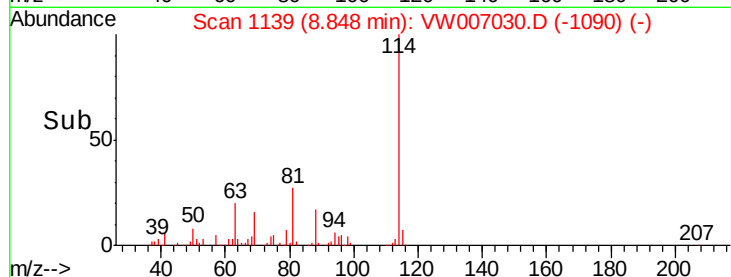
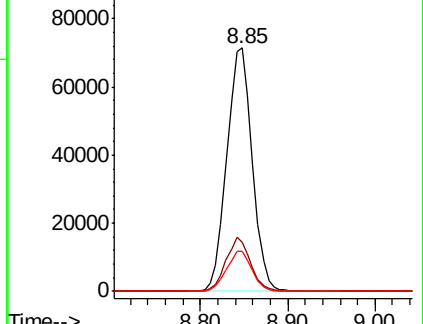
88 16.5 0.0 34.2



Abundance Ion 113.90 (113.60 to 114.60): V

Ion 63.00 (62.70 to 63.70): VW

Ion 87.90 (87.60 to 88.60): VW



#35

Dibromofluoromethane

Concen: 47.877 ug/l

RT: 7.88 min Scan# 981

Delta R.T. -0.01 min

Lab File: VW007030.D

Acq: 22 Nov 2018 06:17

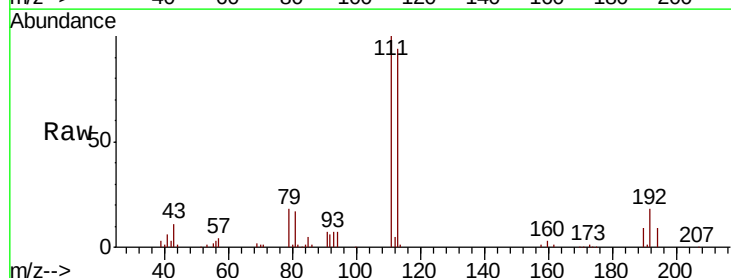
Tgt Ion:113 Resp: 38930

Ion Ratio Lower Upper

113 100

111 104.6 81.0 121.6

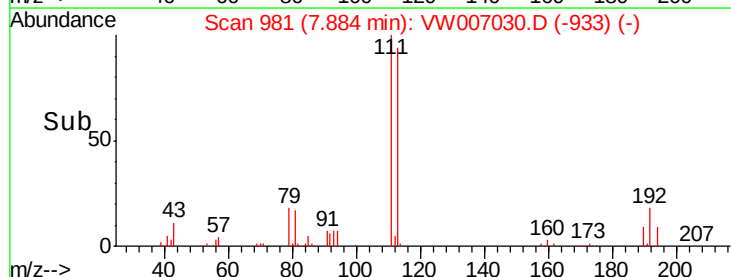
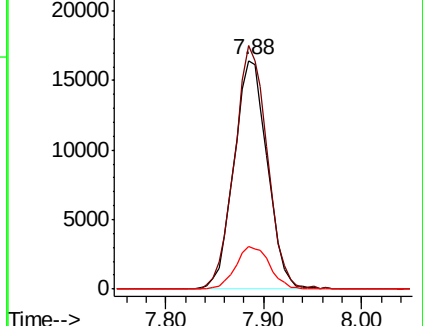
192 18.9 15.0 22.6

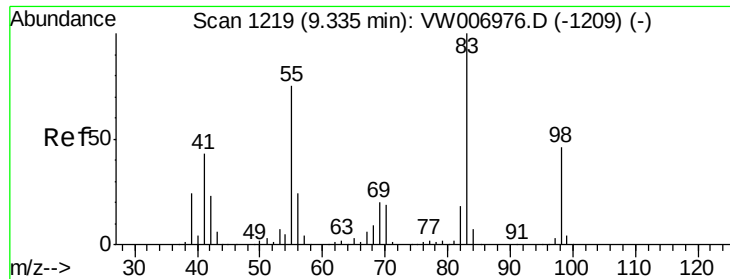


Abundance Ion 112.80 (112.50 to 113.50): V

Ion 110.80 (110.50 to 111.50): V

Ion 191.70 (191.40 to 192.40): V

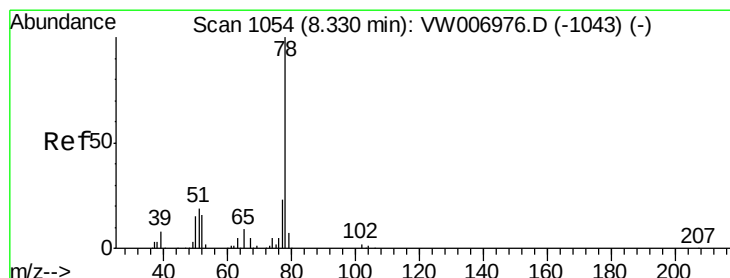
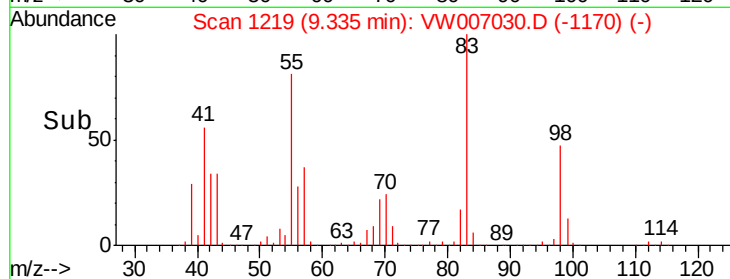
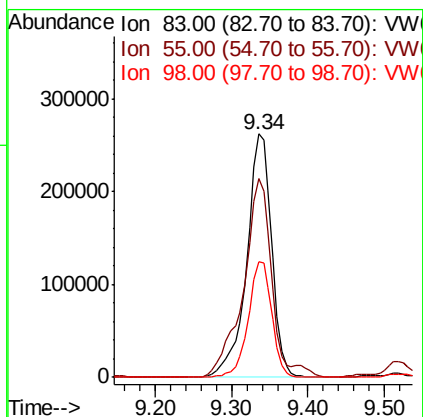
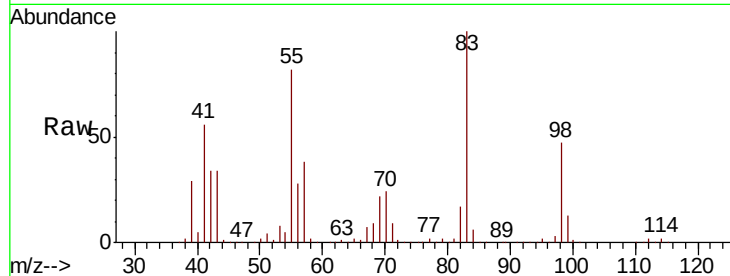




#39
Methylvlcyclohexane
Concen: 337.392 ug/l
RT: 9.34 min Scan# 1219
Delta R.T. -0.00 min
Lab File: VW007030.D
Acq: 22 Nov 2018 06:17

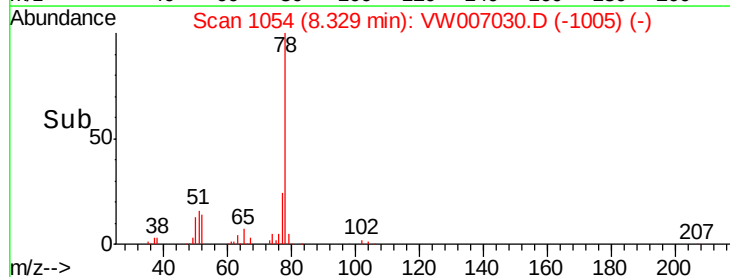
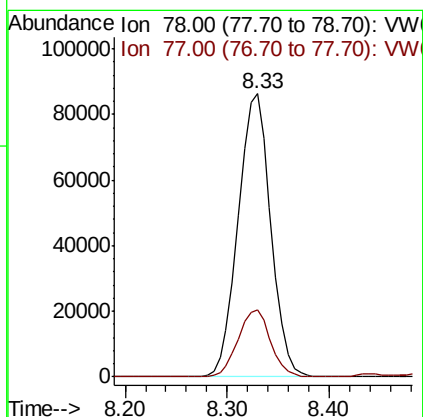
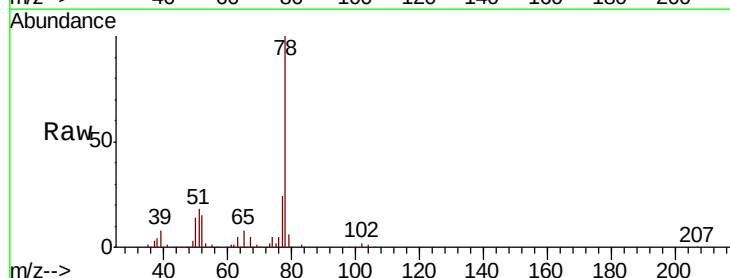
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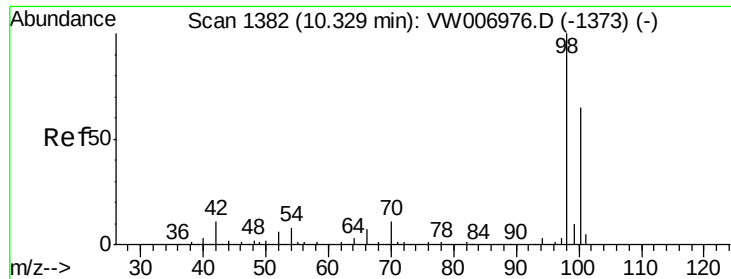
Tot Ion: 83 Resp: 594072
Ion Ratio Lower Upper
83 100
55 81.5 59.6 89.4
98 47.4 37.1 55.7



#40
Benzene
Concen: 50.376 ug/l
RT: 8.33 min Scan# 1054
Delta R.T. -0.00 min
Lab File: VW007030.D
Acq: 22 Nov 2018 06:17

Tgt Ion: 78 Resp: 191330
Ion Ratio Lower Upper
78 100
77 23.9 18.6 28.0

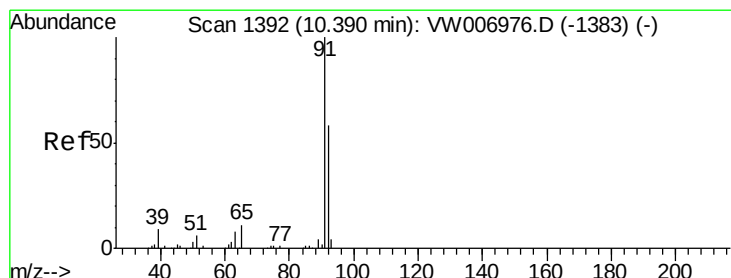
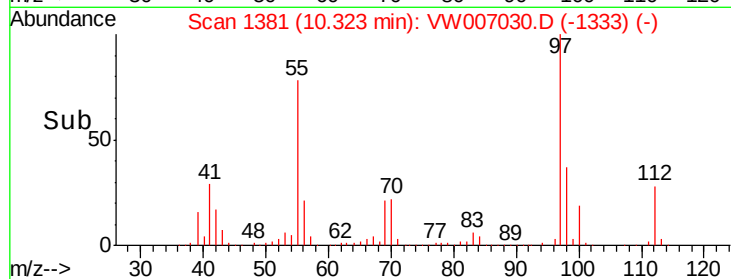
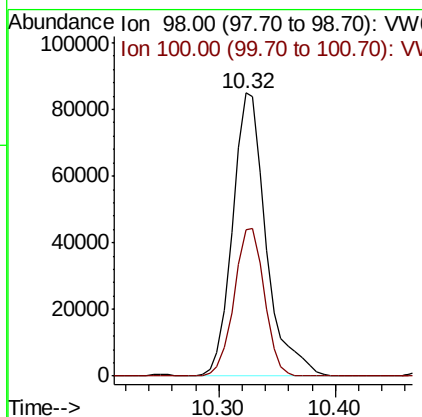
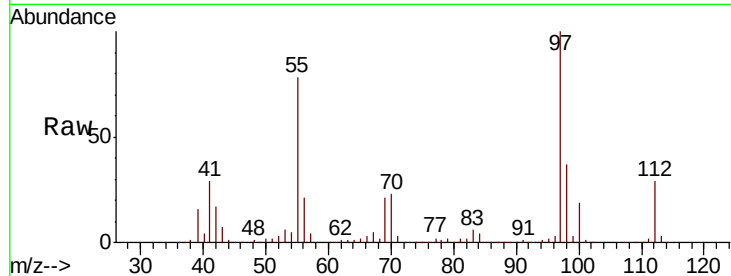




#50
Toluene-d8
Concen: 47.381 ug/l
RT: 10.32 min Scan# 1381
Delta R.T. -0.01 min
Lab File: VW007030.D
Acq: 22 Nov 2018 06:17

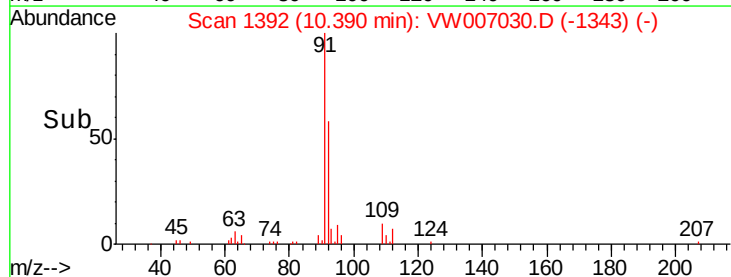
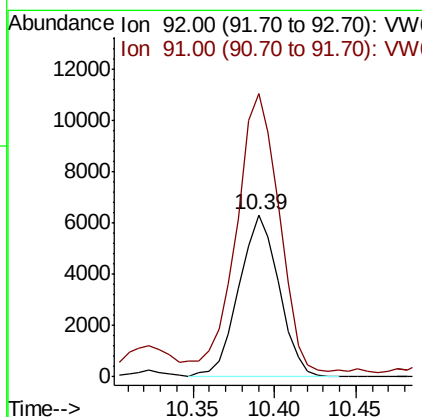
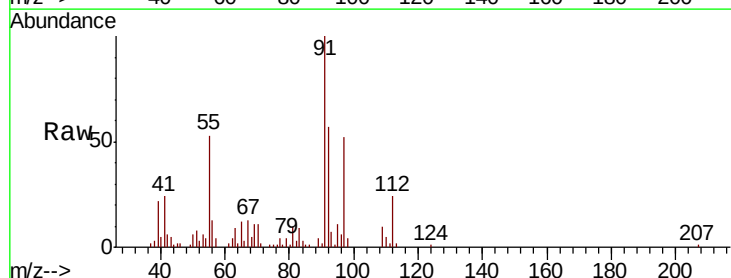
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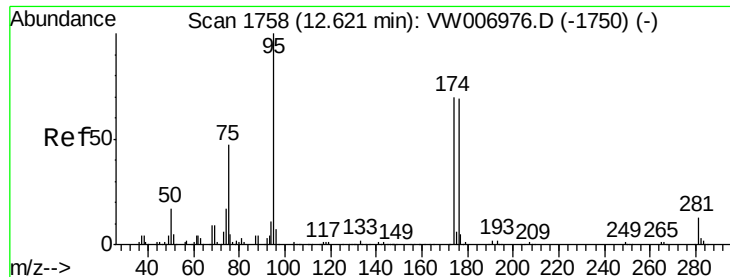
Tot Ion: 98 Resp: 170128
Ion Ratio Lower Upper
98 100
100 47.2 52.2 78.2#



#52
Toluene
Concen: 4.188 ug/l
RT: 10.39 min Scan# 1392
Delta R.T. -0.00 min
Lab File: VW007030.D
Acq: 22 Nov 2018 06:17

Tgt Ion: 92 Resp: 10825
Ion Ratio Lower Upper
92 100
91 184.3 137.3 205.9

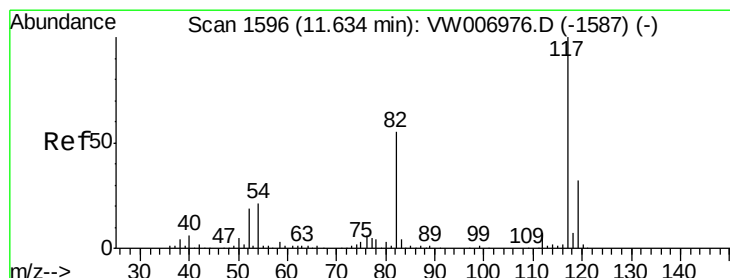
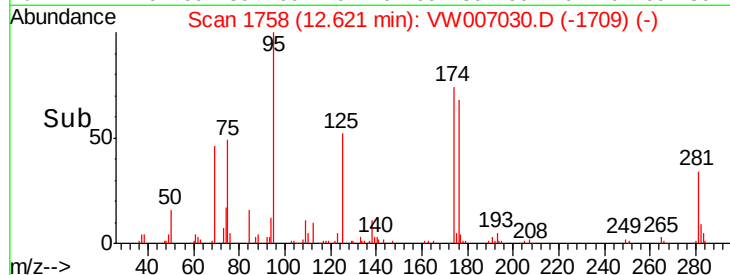
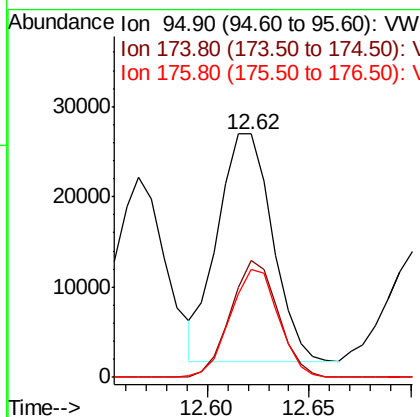
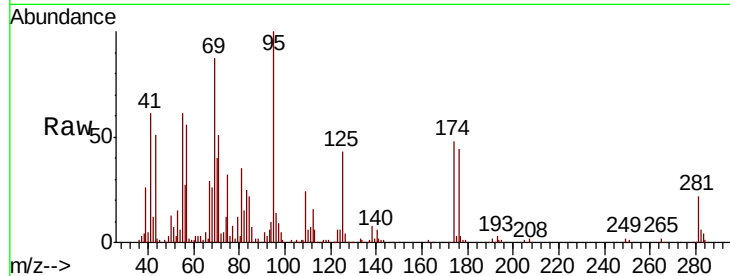




#62
4-Bromofluorobenzene
Concen: 33.223 ug/l
RT: 12.62 min Scan# 1758
Delta R.T. -0.00 min
Lab File: VW007030.D
Acq: 22 Nov 2018 06:17

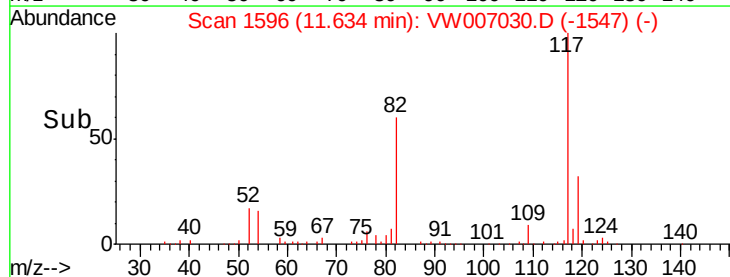
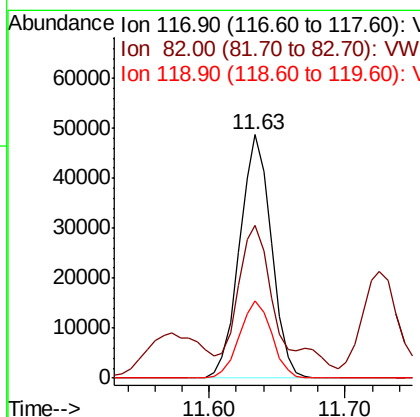
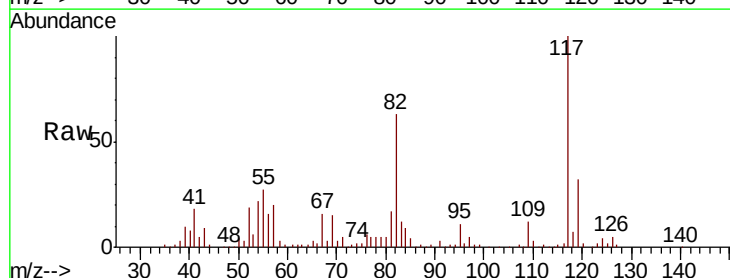
Instrument :
MSVOA_W
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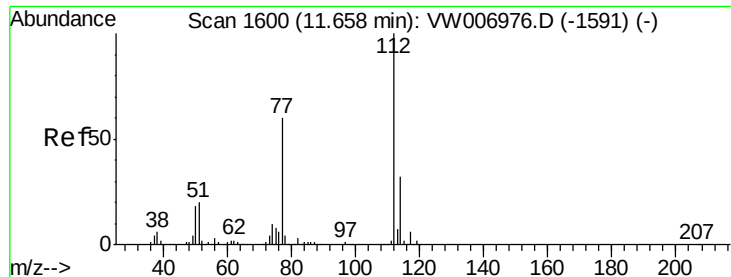
Tot Ion: 95 Resp: 46943
Ion Ratio Lower Upper
95 100
174 44.6 0.0 143.6
176 42.2 0.0 140.4



#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.63 min Scan# 1596
Delta R.T. -0.00 min
Lab File: VW007030.D
Acq: 22 Nov 2018 06:17

Tgt Ion: 117 Resp: 79357
Ion Ratio Lower Upper
117 100
82 58.8 44.2 66.2
119 32.0 25.9 38.9

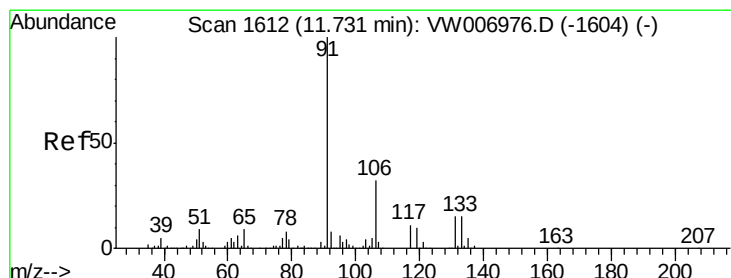
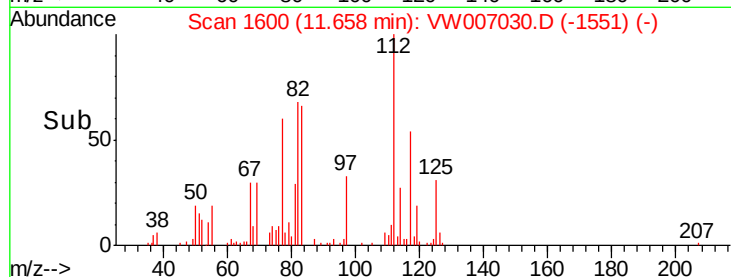
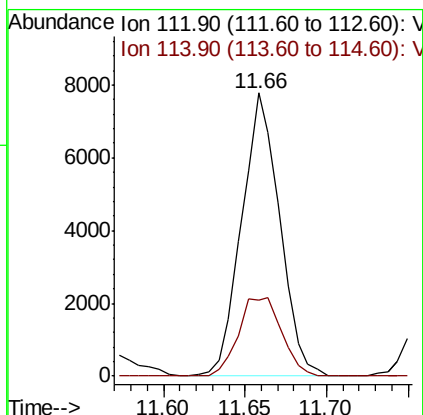
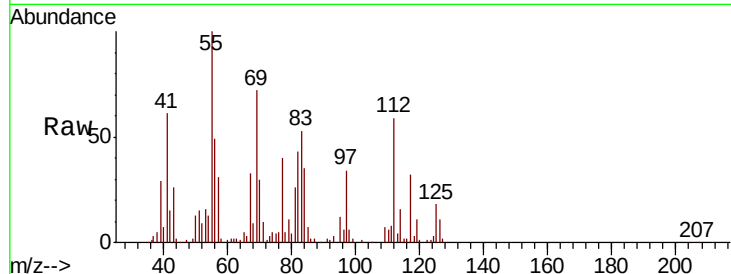




#65
Chlorobenzene
Concen: 7.657 ug/l
RT: 11.66 min Scan# 1600
Delta R.T. -0.00 min
Lab File: VW007030.D
Acq: 22 Nov 2018 06:17

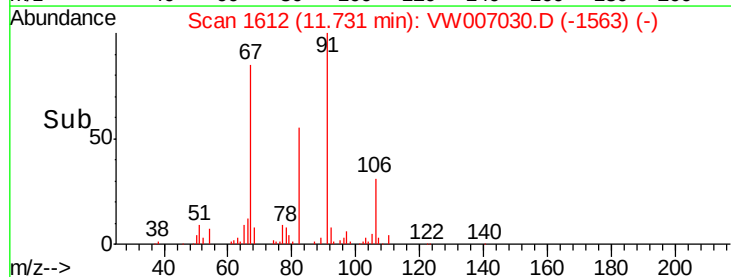
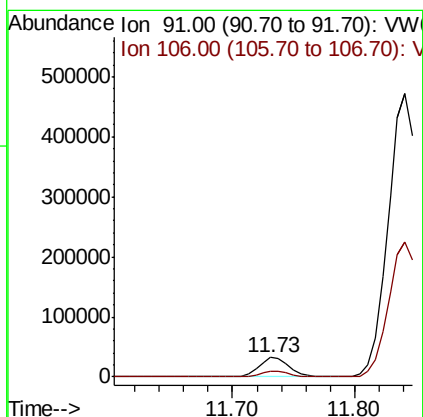
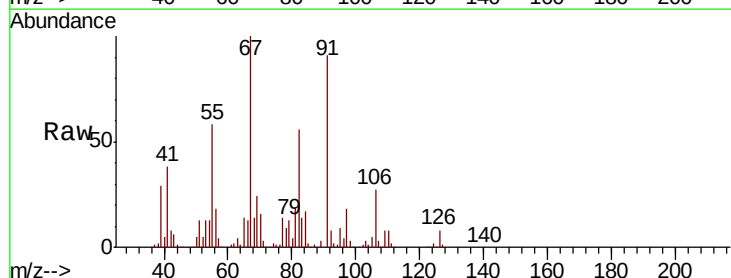
Instrument :
MSVOA_W
ClientSampleId :
20180927-WCC-3-COMPOSITE

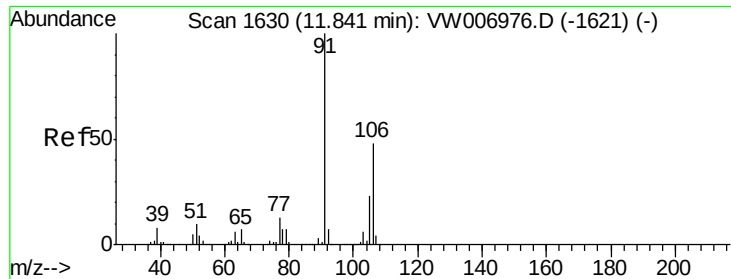
Tot Ion:112 Resp: 12683
Ion Ratio Lower Upper
112 100
114 26.9 25.8 38.8



#67
Ethyl Benzene
Concen: 17.907 ug/l
RT: 11.73 min Scan# 1612
Delta R.T. -0.00 min
Lab File: VW007030.D
Acq: 22 Nov 2018 06:17

Tgt Ion: 91 Resp: 54487
Ion Ratio Lower Upper
91 100
106 30.5 25.4 38.2

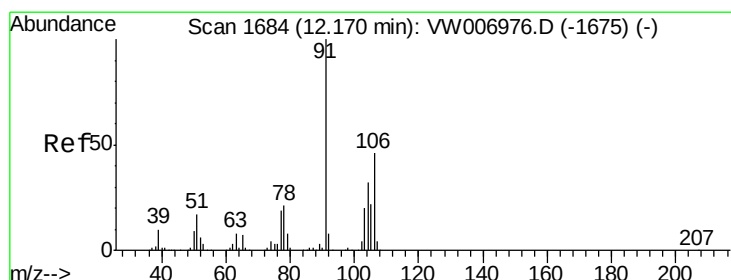
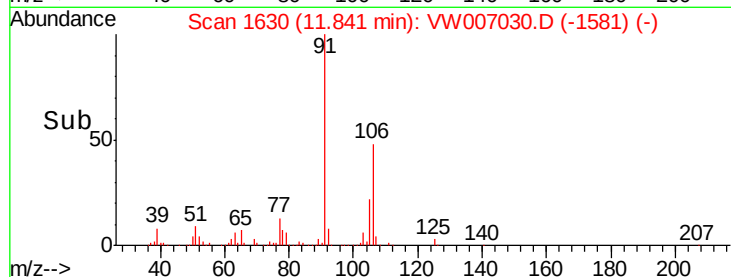
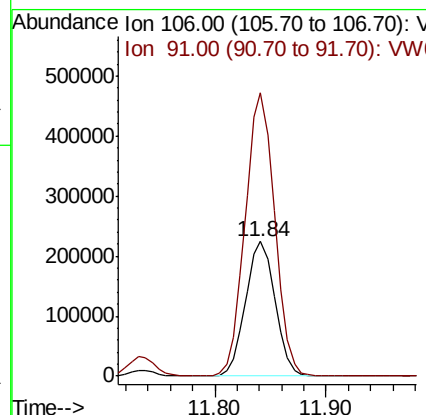
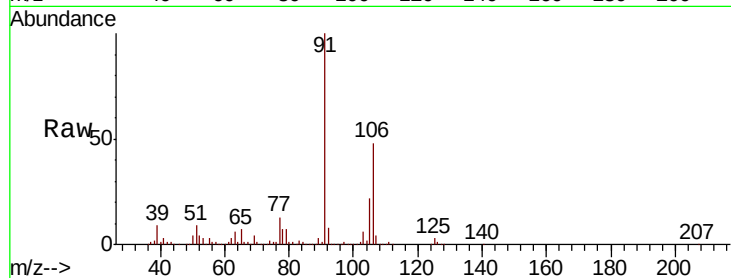




#68
m/p-Xylenes
Concen: 346.254 ug/l
RT: 11.84 min Scan# 1630
Delta R.T. -0.00 min
Lab File: VW007030.D
Acq: 22 Nov 2018 06:17

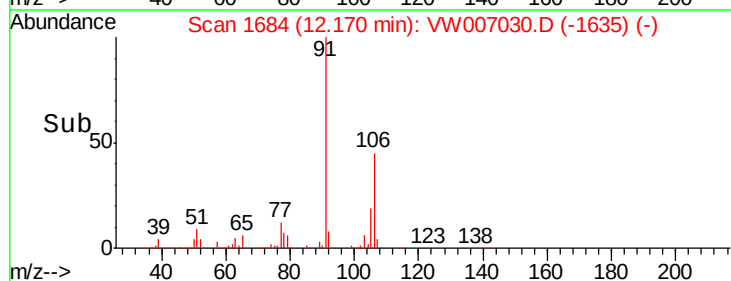
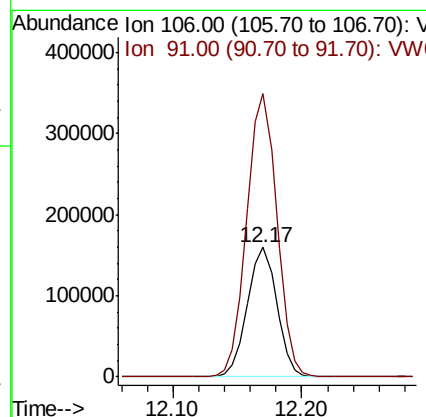
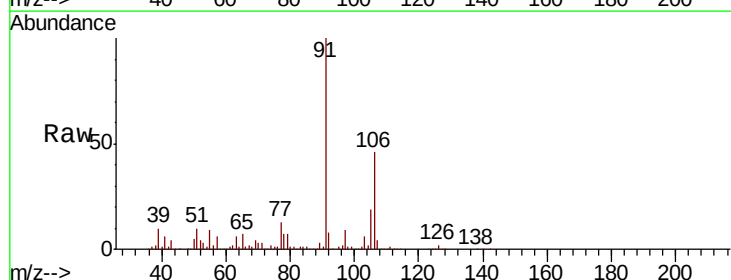
Instrument :
MSVOA_W
ClientSampleId :
20180927-WCC-3-COMPOSITE

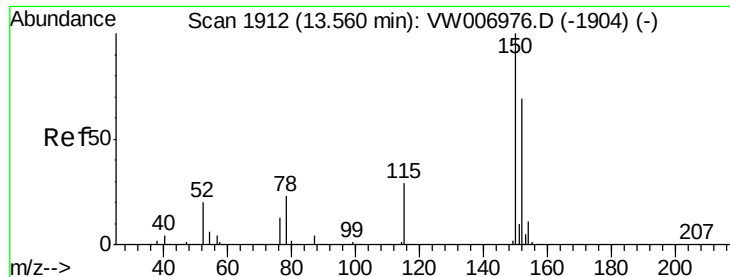
Tot Ion:106 Resp: 413341
Ion Ratio Lower Upper
106 100
91 209.7 164.8 247.2



#69
o-Xylene
Concen: 224.924 ug/l
RT: 12.17 min Scan# 1684
Delta R.T. -0.00 min
Lab File: VW007030.D
Acq: 22 Nov 2018 06:17

Tgt Ion:106 Resp: 253177
Ion Ratio Lower Upper
106 100
91 222.8 107.9 323.8

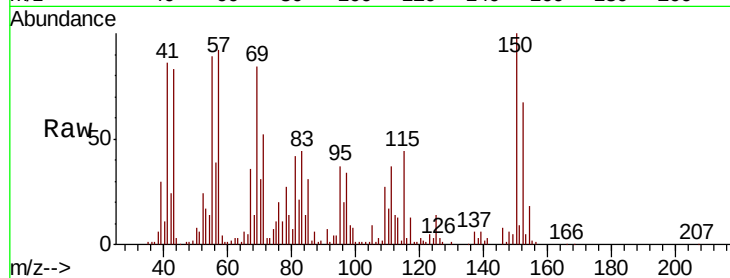




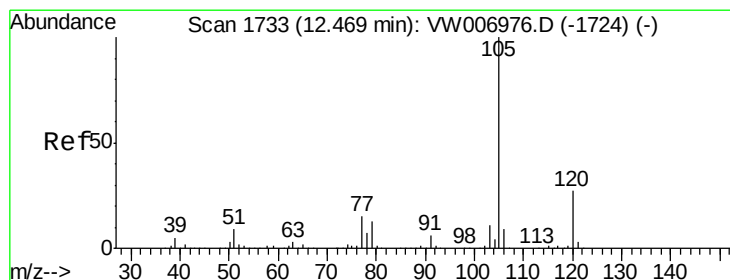
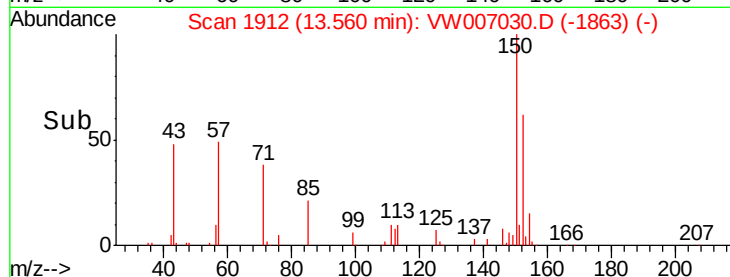
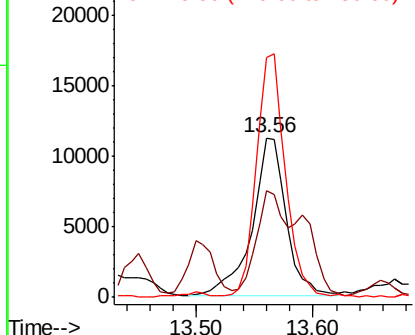
#72
 1,4-Dichlorobenzene-d4
 Concen: 50.000 ug/l
 RT: 13.56 min Scan# 1912
 Delta R.T. -0.00 min
 Lab File: VW007030.D
 Acq: 22 Nov 2018 06:17

Instrument :
 MSVOA_W
 ClientSampleId :
 20180927-WCC-3-COMPOSITE

Tot Ion:152 Resp: 22563
 Ion Ratio Lower Upper
 152 100
 115 51.5 31.4 94.2
 150 134.1 0.0 353.4

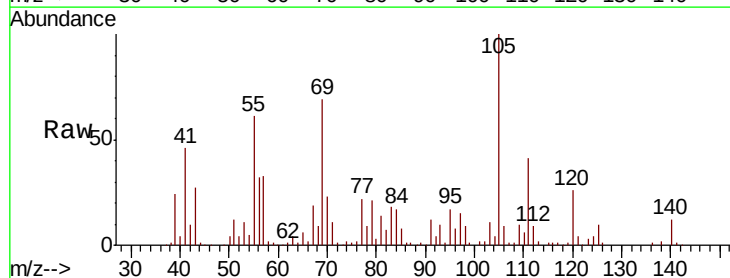


Abundance Ion 151.90 (151.60 to 152.60): V
 Ion 114.90 (114.60 to 115.60): V
 Ion 149.90 (149.60 to 150.60): V

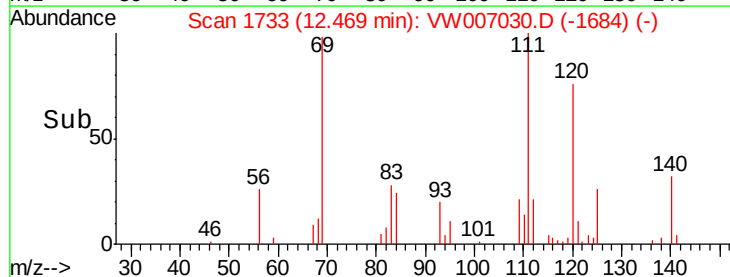
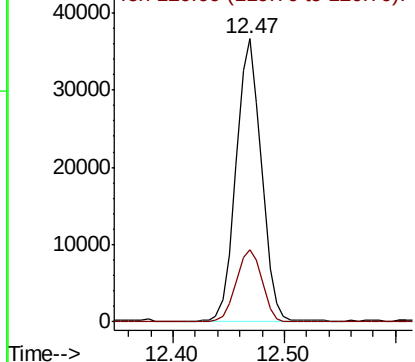


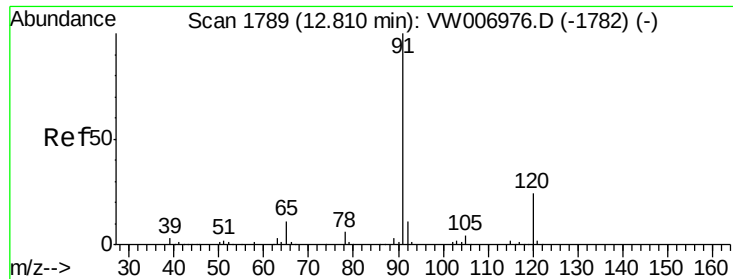
#73
 Isopropylbenzene
 Concen: 32.874 ug/l
 RT: 12.47 min Scan# 1733
 Delta R.T. -0.00 min
 Lab File: VW007030.D
 Acq: 22 Nov 2018 06:17

Tgt Ion:105 Resp: 57647
 Ion Ratio Lower Upper
 105 100
 120 25.9 13.3 39.8



Abundance Ion 105.00 (104.70 to 105.70): V
 Ion 120.00 (119.70 to 120.70): V





#78

n-propylbenzene

Concen: 72.802 ug/l

RT: 12.81 min Scan# 1789

Delta R.T. -0.00 min

Lab File: VW007030.D

Acq: 22 Nov 2018 06:17

Instrument :

MSVOA_W

ClientSampleId :

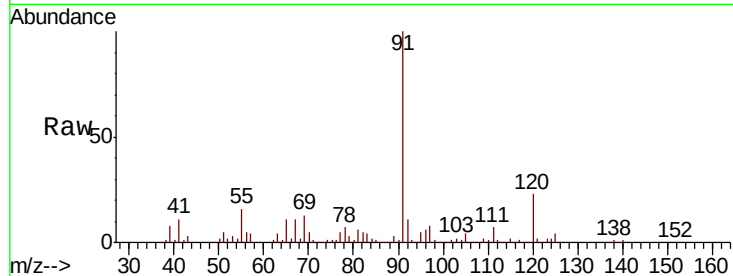
20180927-WCC-3-COMPOSITE

Tot Ion: 91 Resp: 154639

Ion Ratio Lower Upper

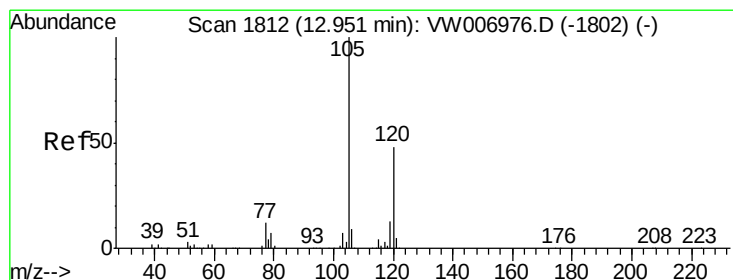
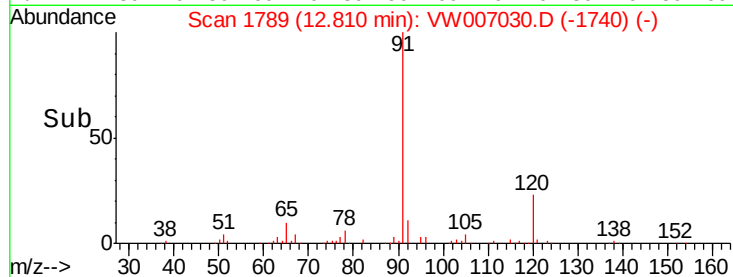
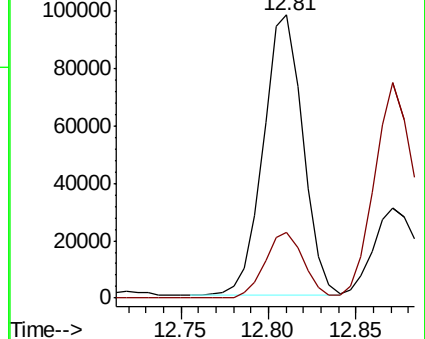
91 100

120 22.8 11.7 35.1



Abundance Ion 91.00 (90.70 to 91.70): VW

Ion 120.00 (119.70 to 120.70): V



#80

1,3,5-Trimethylbenzene

Concen: 160.731 ug/l

RT: 12.95 min Scan# 1812

Delta R.T. -0.00 min

Lab File: VW007030.D

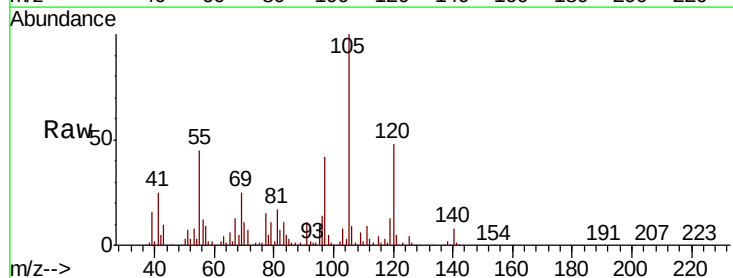
Acq: 22 Nov 2018 06:17

Tgt Ion:105 Resp: 243733

Ion Ratio Lower Upper

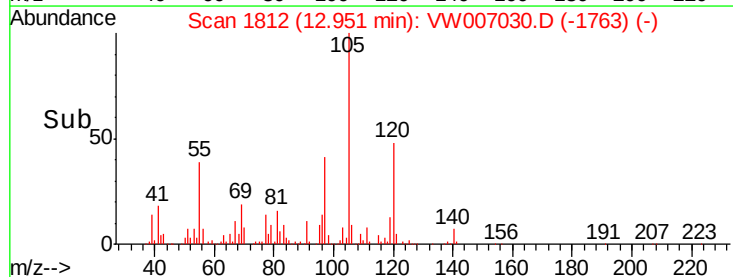
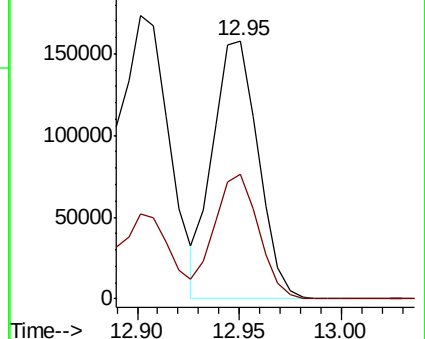
105 100

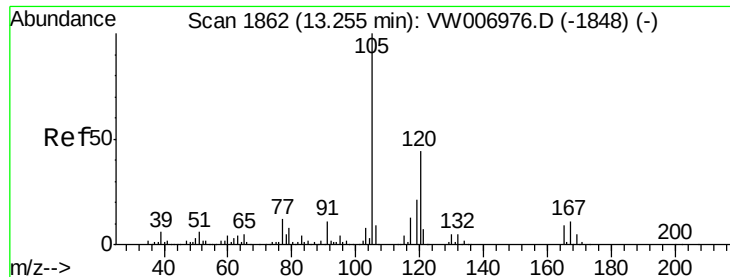
120 47.2 23.8 71.2



Abundance Ion 105.00 (104.70 to 105.70): V

Ion 120.00 (119.70 to 120.70): V

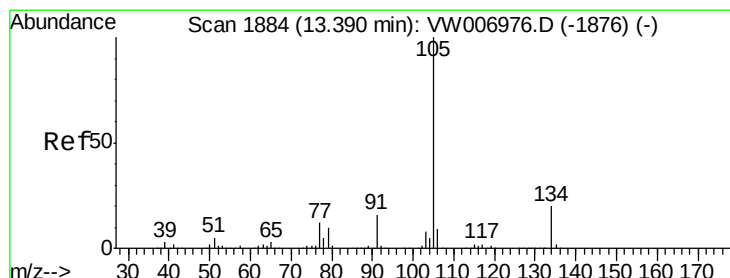
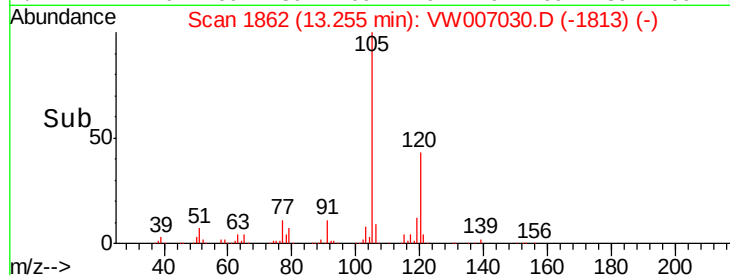
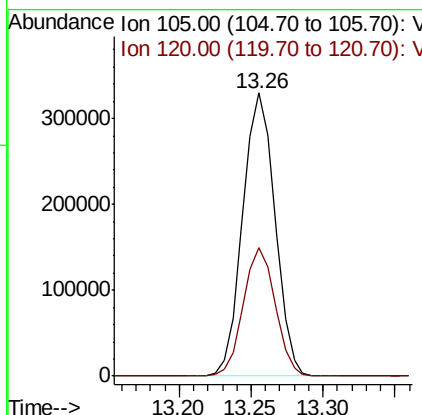
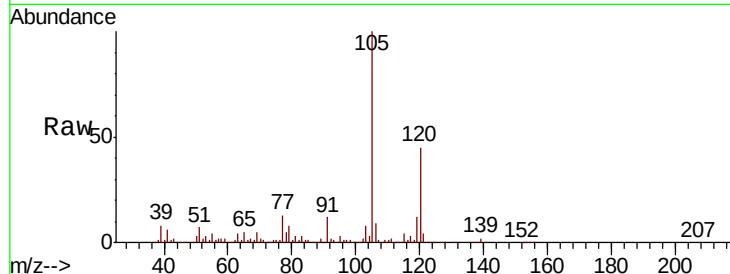




#84
 1,2,4-Trimethylbenzene
 Concen: 338.973 ug/l
 RT: 13.26 min Scan# 1862
 Delta R.T. -0.00 min
 Lab File: VW007030.D
 Acq: 22 Nov 2018 06:17

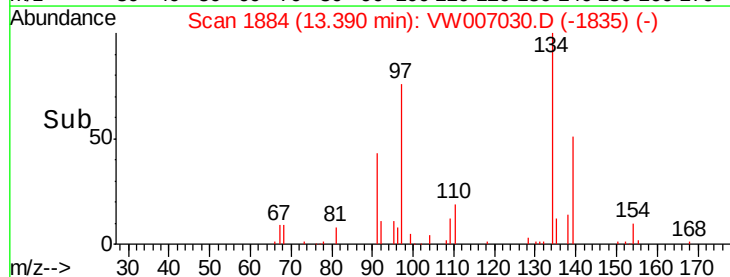
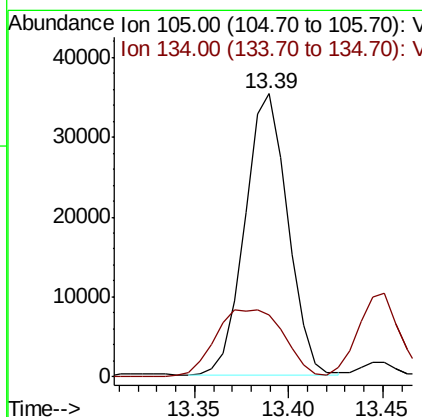
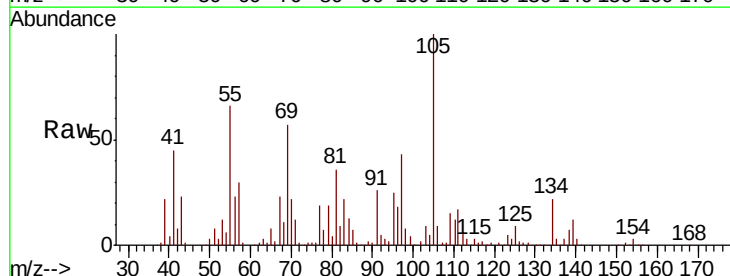
Instrument :
 MSVOA_W
 ClientSampleId :
 20180927-WCC-3-COMPOSITE

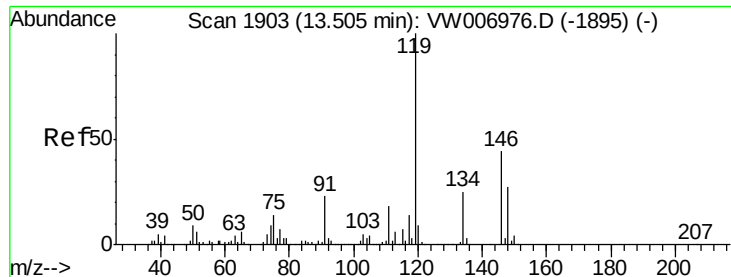
Tot Ion:105 Resp: 512120
 Ion Ratio Lower Upper
 105 100
 120 44.9 21.8 65.3



#85
 sec-Butylbenzene
 Concen: 29.959 ug/l
 RT: 13.39 min Scan# 1884
 Delta R.T. -0.00 min
 Lab File: VW007030.D
 Acq: 22 Nov 2018 06:17

Tgt Ion:105 Resp: 55565
 Ion Ratio Lower Upper
 105 100
 134 38.3 9.8 29.3#

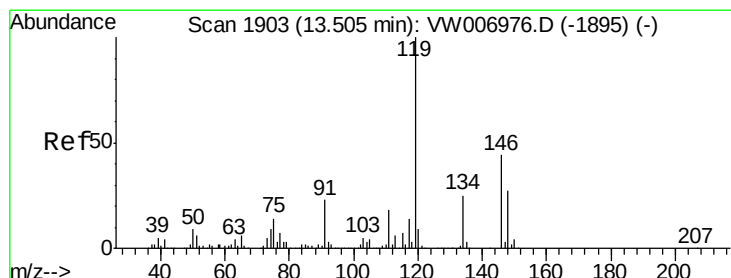
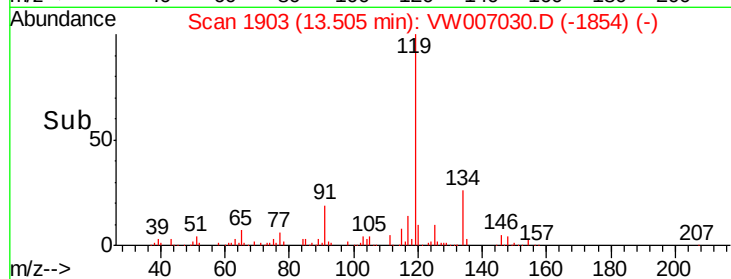
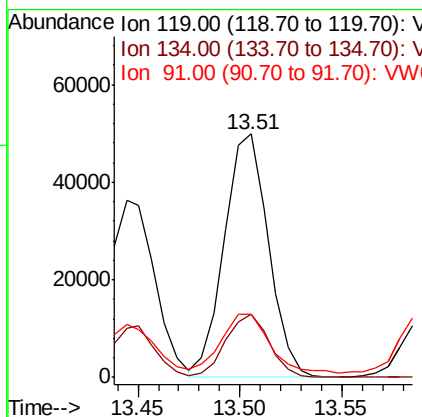
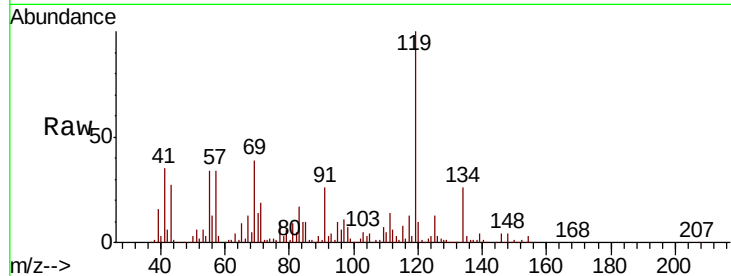




#86
 p-Isopropyltoluene
 Concen: 45.766 ug/l
 RT: 13.51 min Scan# 1903
 Delta R.T. -0.00 min
 Lab File: VW007030.D
 Acq: 22 Nov 2018 06:17

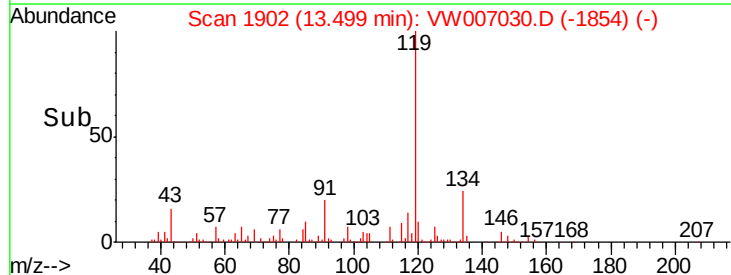
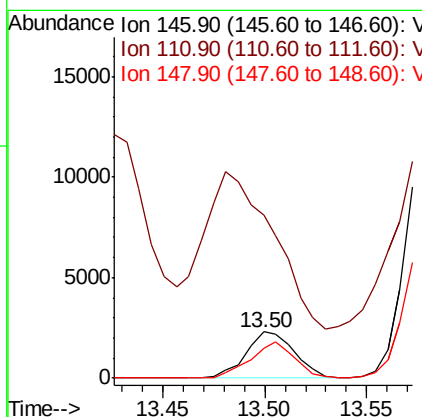
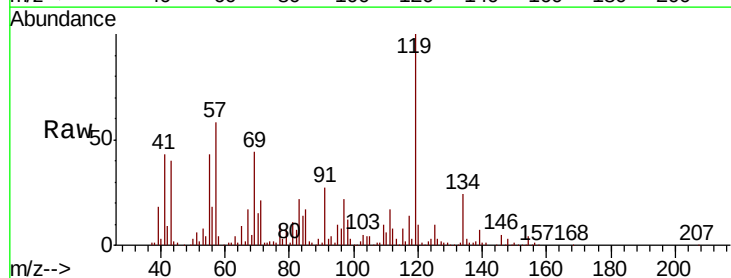
Instrument :
 MSVOA_W
 ClientSampleId :
 20180927-WCC-3-COMPOSITE

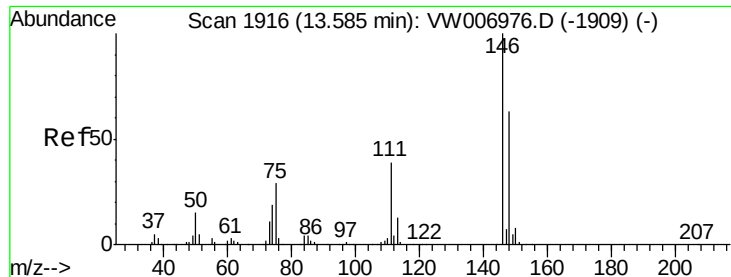
Tot Ion:119 Resp: 74885
 Ion Ratio Lower Upper
 119 100
 134 25.5 12.8 38.3
 91 25.6 12.2 36.6



#87
 1,3-Dichlorobenzene
 Concen: 4.928 ug/l
 RT: 13.50 min Scan# 1902
 Delta R.T. -0.01 min
 Lab File: VW007030.D
 Acq: 22 Nov 2018 06:17

Tgt Ion:146 Resp: 3789
 Ion Ratio Lower Upper
 146 100
 111 0.0 21.1 63.3#
 148 72.0 31.6 94.8

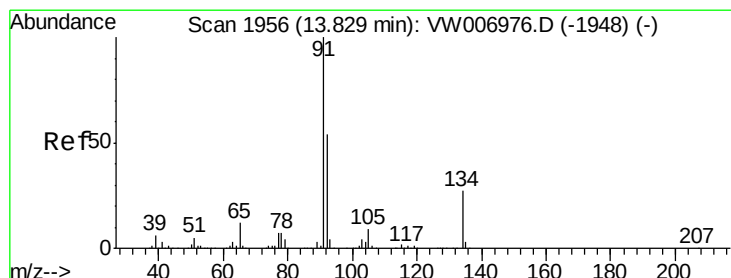
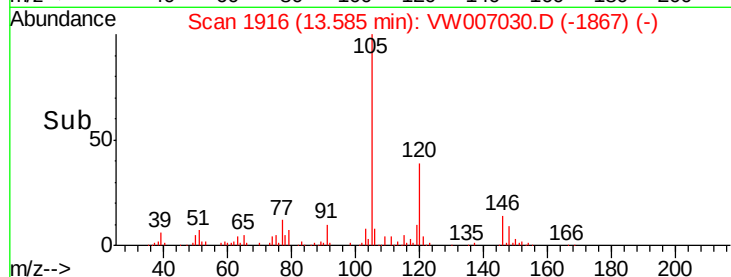
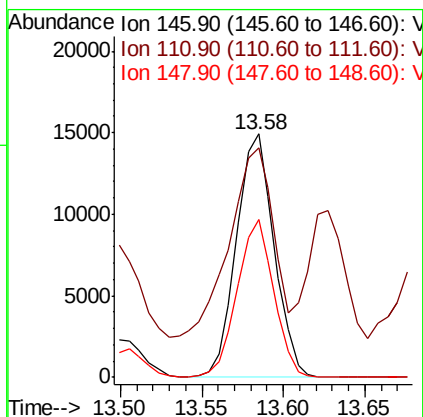
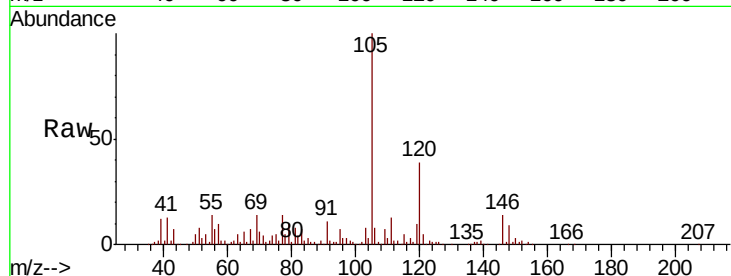




#88
 1,4-Dichlorobenzene
 Concen: 31.265 ug/l
 RT: 13.58 min Scan# 1916
 Delta R.T. -0.00 min
 Lab File: VW007030.D
 Acq: 22 Nov 2018 06:17

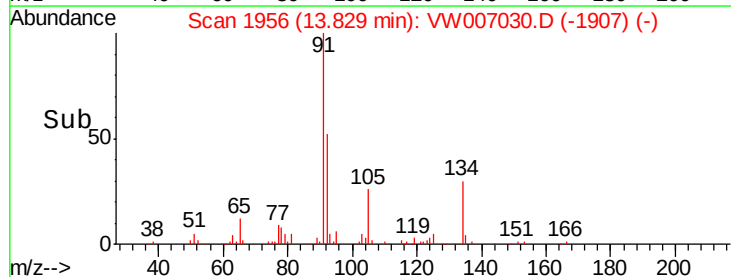
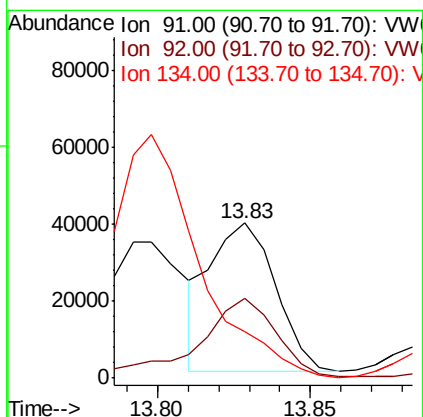
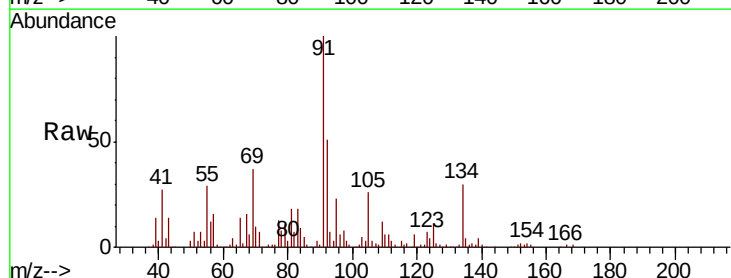
Instrument :
 MSVOA_W
 ClientSampleId :
 20180927-WCC-3-COMPOSITE

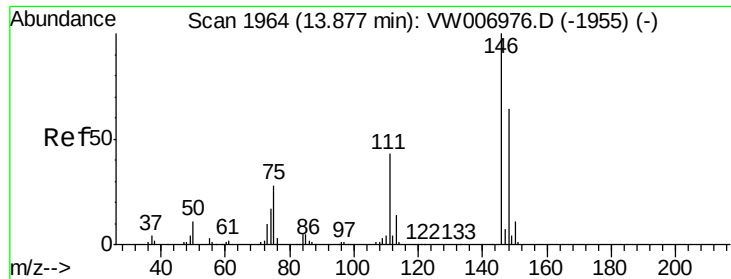
Tot Ion	Ratio	Lower	Upper
146	100		
111	90.6	20.6	61.8#
148	62.9	32.3	96.8



#89
 n-Butylbenzene
 Concen: 37.081 ug/l
 RT: 13.83 min Scan# 1956
 Delta R.T. -0.00 min
 Lab File: VW007030.D
 Acq: 22 Nov 2018 06:17

Tgt Ion	Ratio	Lower	Upper
91	100		
92	62.9	26.8	80.4
134	0.0	13.3	39.8#





#91

1,2-Dichlorobenzene

Concen: 6.318 ug/l

RT: 13.88 min Scan# 1964

Delta R.T. -0.00 min

Lab File: VW007030.D

Acq: 22 Nov 2018 06:17

Instrument :

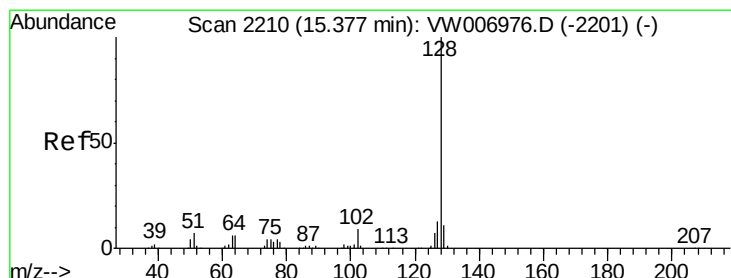
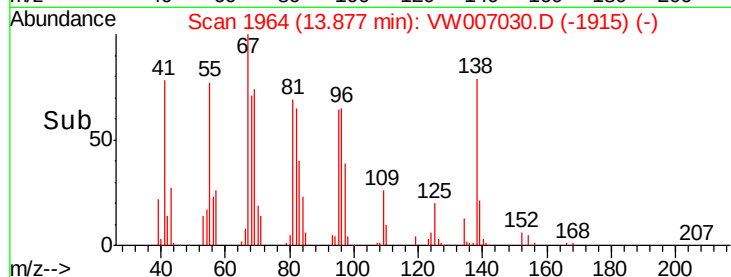
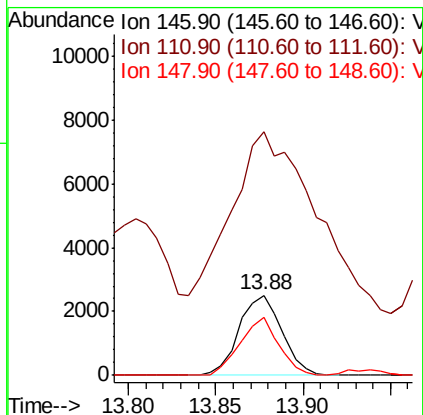
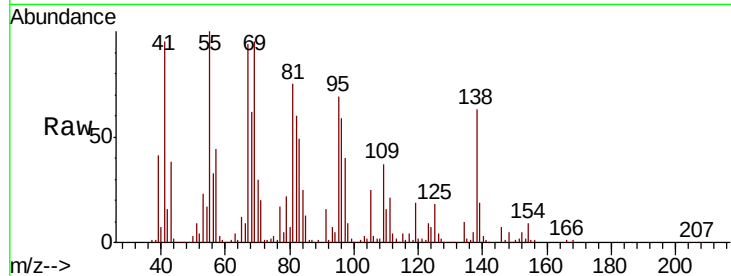
MSVOA_W

ClientSampleId :

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Tot Ion:146 Resp: 4257

Ion	Ratio	Lower	Upper
146	100		
111	471.0	21.9	65.7#
148	64.8	32.2	96.6



#95

Naphthalene

Concen: 145.808 ug/l

RT: 15.38 min Scan# 2210

Delta R.T. -0.00 min

Lab File: VW007030.D

Acq: 22 Nov 2018 06:17

Tgt Ion:128 Resp: 117588

Ion	Ratio	Lower	Upper
128	100		
127	14.6	10.5	15.7
129	12.5	8.7	13.1

