

Data Path : Z:\VOASRV\HPCHEM1\MSVOA W\DATA\VW071618\
 Data File : VW003958.D
 Acq On : 16 Jul 2018 18:24
 Operator : VA/AP
 Sample : J3975-01
 Misc : 4.51G/5ML/MSVOA W/SOIL
 ALS Vial : 16 Sample Multiplier: 1

Instrument :
 MSVOA_W
 ClientSampleId :
 PAR-5

Quant Time: Jul 17 06:06:17 2018
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_W\METHOD\82W071618S.M
 Quant Title : SW846 8260
 QLast Update : Mon Jul 16 15:06:12 2018
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	7.95	168	150397	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	8.84	114	267469	50.00	ug/l	0.00
63) Chlorobenzene-d5	11.63	117	182040	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.57	152	68221	50.00	ug/l	0.00

System Monitoring Compounds	R.T.	QIon	Response	Conc	Units	Dev(Min)
33) 1,2-Dichloroethane-d4	8.31	65	110548	65.76	ug/l	0.00
Spiked Amount			Recovery	=	131.52%	
35) Dibromofluoromethane	7.88	113	88130	51.35	ug/l	0.00
Spiked Amount			Recovery	=	102.70%	
50) Toluene-d8	10.33	98	274209	41.18	ug/l	0.00
Spiked Amount			Recovery	=	82.36%	
62) 4-Bromofluorobenzene	12.62	95	117704	49.02	ug/l	0.00
Spiked Amount			Recovery	=	98.04%	

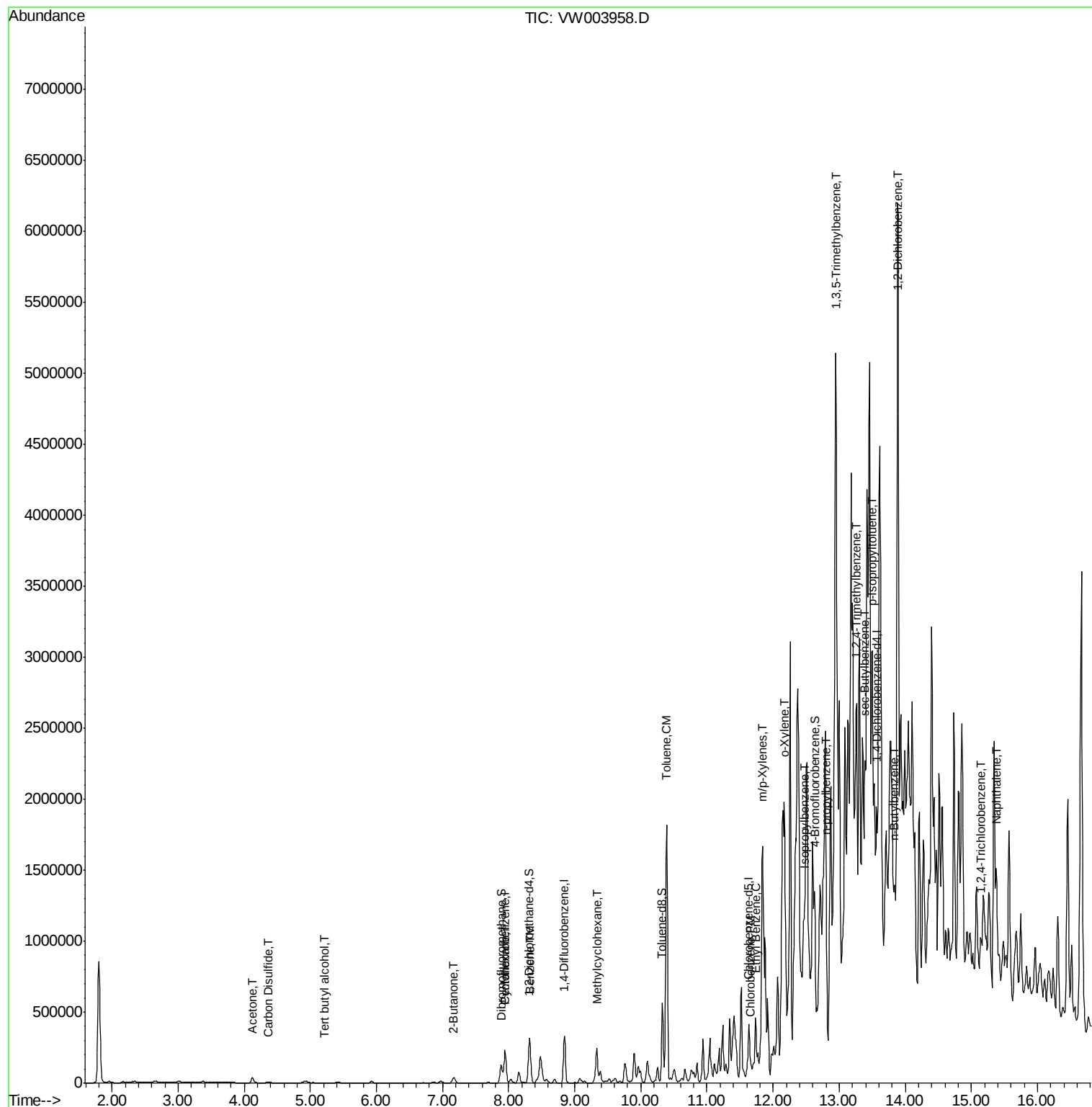
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
11) Tert butyl alcohol	5.21	59	4366	37.62	ug/l	# 72
16) Acetone	4.12	43	66731	165.19	ug/l	96
17) Carbon Disulfide	4.36	76	20891	4.58	ug/l	97
25) 2-Butanone	7.18	43	31071	57.15	ug/l	99
31) Cyclohexane	7.95	56	24520	8.79	ug/l	# 81
39) Methylcyclohexane	9.34	83	79793	24.76	ug/l	92
40) Benzene	8.32	78	225449	29.53	ug/l	99
52) Toluene	10.39	92	742845	157.35	ug/l	100
65) Chlorobenzene	11.66	112	19281	4.98	ug/l	96
67) Ethyl Benzene	11.74	91	270763	39.82	ug/l	99
68) m/p-Xylenes	11.84	106	440735	169.58	ug/l	99
69) o-Xylene	12.17	106	356598	147.91	ug/l	97
73) Isopropylbenzene	12.47	105	137741	28.57	ug/l	98
78) n-propylbenzene	12.81	91	193160	32.66	ug/l	99
80) 1,3,5-Trimethylbenzene	12.95	105	386150	95.19	ug/l	100
84) 1,2,4-Trimethylbenzene	13.26	105	894463	214.30	ug/l	98
85) sec-Butylbenzene	13.39	105	166708	32.99	ug/l	# 68
86) p-Isopropyltoluene	13.51	119	266103	60.03	ug/l	98
89) n-Butylbenzene	13.83	91	151303	34.72	ug/l	# 79
91) 1,2-Dichlorobenzene	13.88	146	37739	18.39	ug/l	# 74
93) 1,2,4-Trichlorobenzene	15.15	180	47092	32.67	ug/l	# 36
95) Naphthalene	15.38	128	680916	255.90	ug/l	97

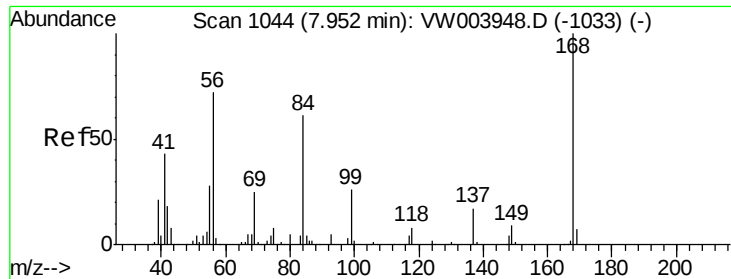
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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Quant Title : SW846 8260
QLast Update : Mon Jul 16 15:06:12 2018
Response via : Initial Calibration





#1

Pentafluorobenzene

Concen: 50.00 ug/l

RT: 7.95 min Scan# 1043

Delta R.T. -0.01 min

Lab File: VW003958.D

Acq: 16 Jul 2018 18:24

Instrument :

MSVOA_W

ClientSampled :

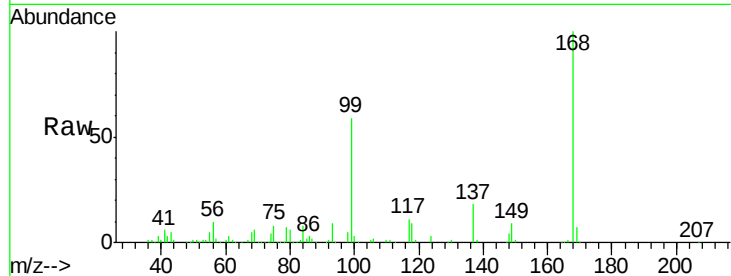
PAR-5

Tot Ion:168 Resp: 150397

Ion Ratio Lower Upper

168 100

99 58.8 43.8 65.6



Abundance Ion 167.90 (167.60 to 168.60): VW

Ion 98.90 (98.60 to 99.60): VW

7.95

60000

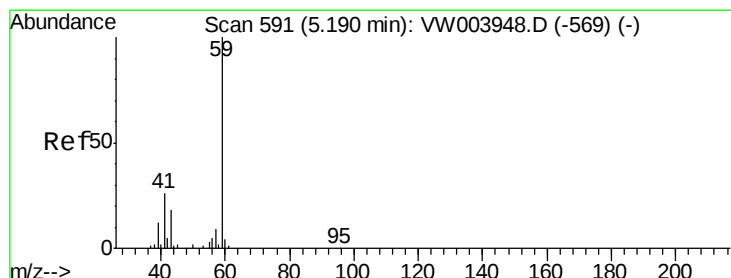
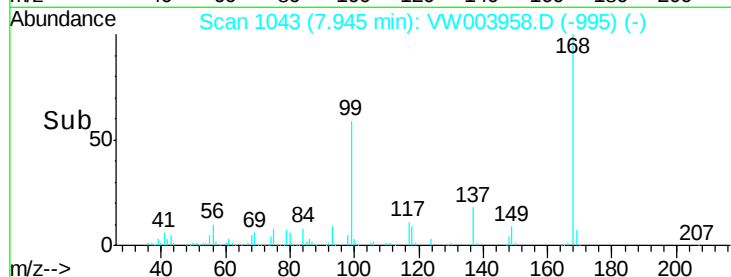
40000

20000

0

7.90 8.00

Time-->



#11

Tert butyl alcohol

Concen: 37.62 ug/l

RT: 5.21 min Scan# 594

Delta R.T. 0.02 min

Lab File: VW003958.D

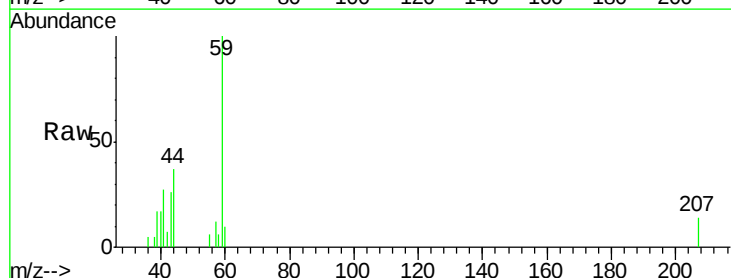
Acq: 16 Jul 2018 18:24

Tgt Ion: 59 Resp: 4366

Ion Ratio Lower Upper

59 100

57 0.0 8.5 12.7#



Abundance Ion 59.00 (58.70 to 59.70): VW

Ion 57.00 (56.70 to 57.70): VW

5.21

1200

1000

800

600

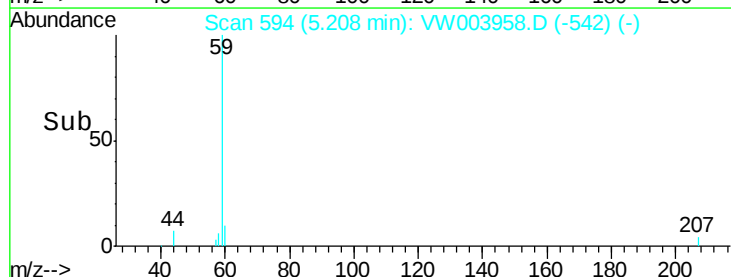
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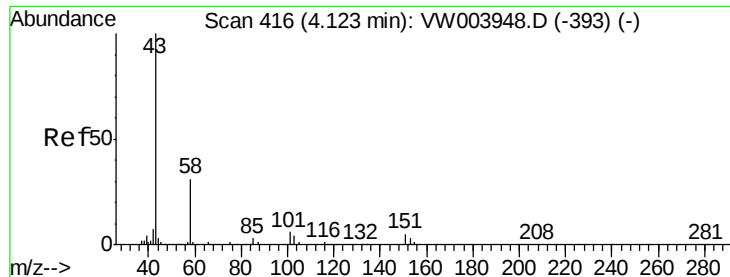
200

0

5.10 5.20 5.30

Time-->





#16

Acetone

Concen: 165.19 ug/l

RT: 4.12 min Scan# 416

Delta R.T. -0.00 min

Lab File: VW003958.D

Acq: 16 Jul 2018 18:24

Instrument :

MSVOA_W

ClientSampled :

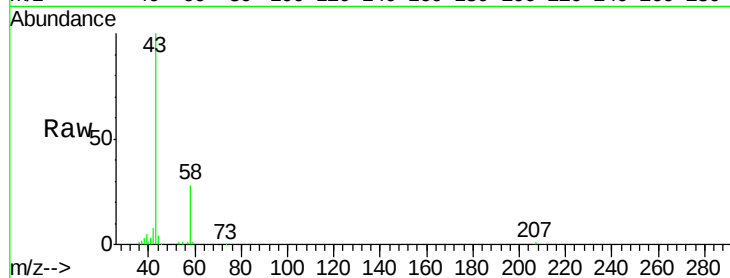
PAR-5

Tot Ion: 43 Resp: 66731

Ion Ratio Lower Upper

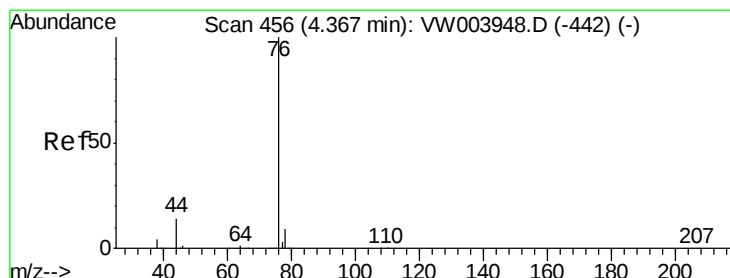
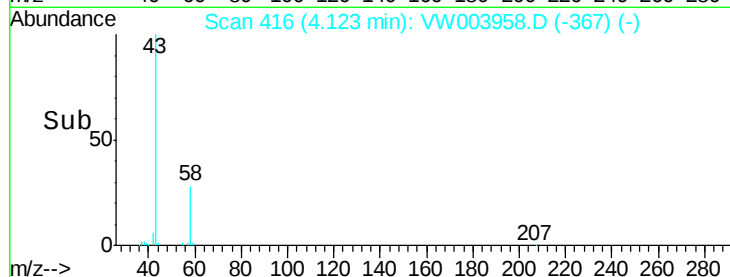
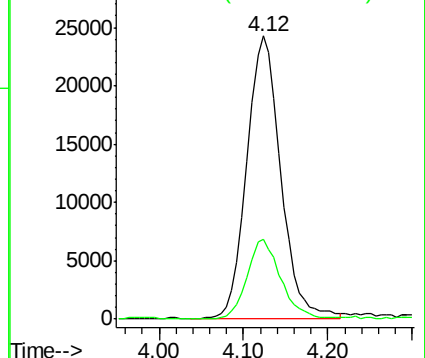
43 100

58 28.2 24.5 36.7



Abundance Ion 43.00 (42.70 to 43.70): VW

Ion 58.00 (57.70 to 58.70): VW



#17

Carbon Disulfide

Concen: 4.58 ug/l

RT: 4.36 min Scan# 455

Delta R.T. -0.01 min

Lab File: VW003958.D

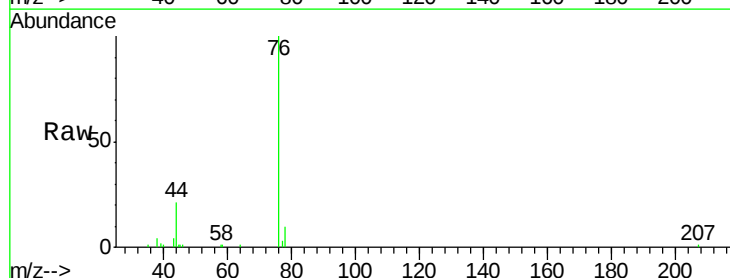
Acq: 16 Jul 2018 18:24

Tgt Ion: 76 Resp: 20891

Ion Ratio Lower Upper

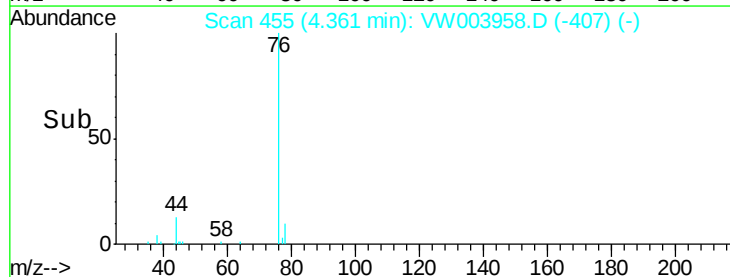
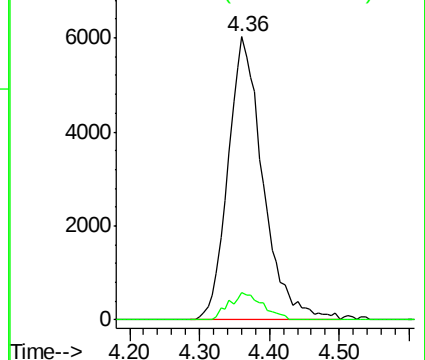
76 100

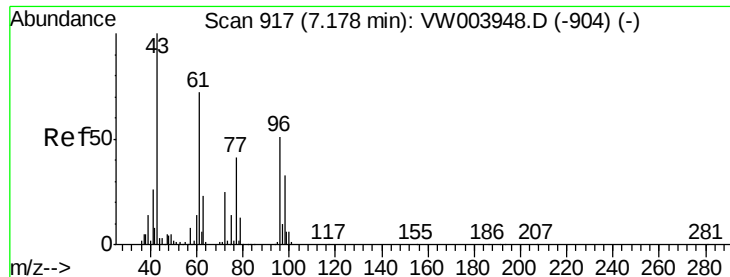
78 9.8 7.1 10.7



Abundance Ion 75.90 (75.60 to 76.60): VW

Ion 77.90 (77.60 to 78.60): VW

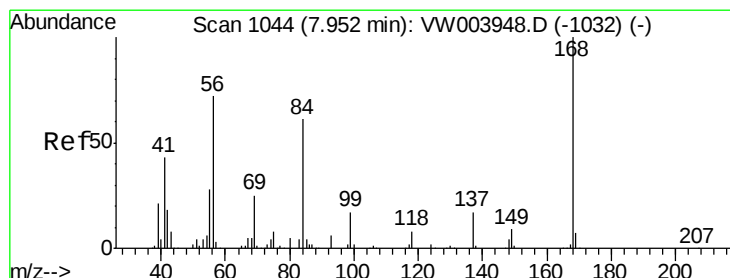
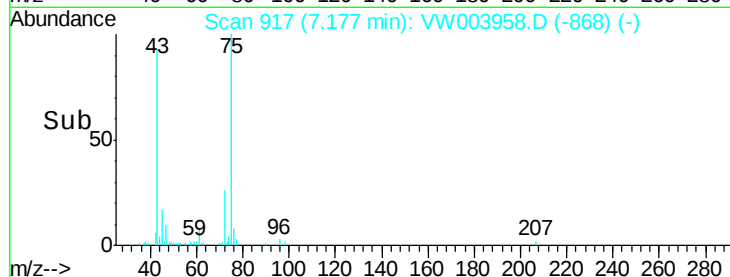
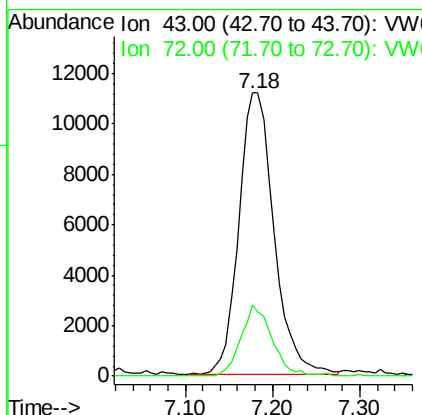
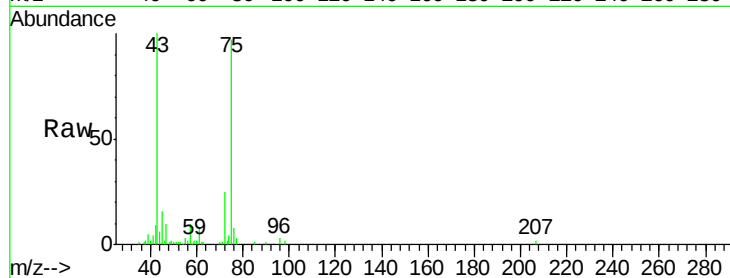




#25
2-Butanone
Concen: 57.15 ug/l
RT: 7.18 min Scan# 917
Delta R.T. -0.00 min
Lab File: VW003958.D
Acq: 16 Jul 2018 18:24

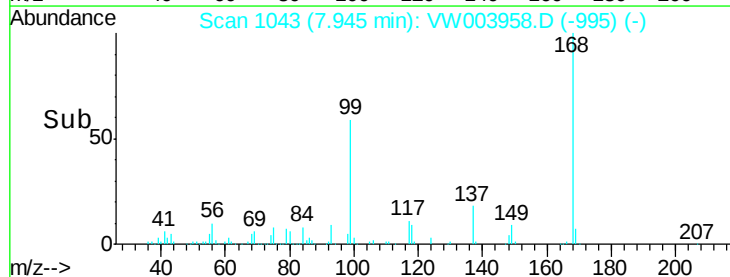
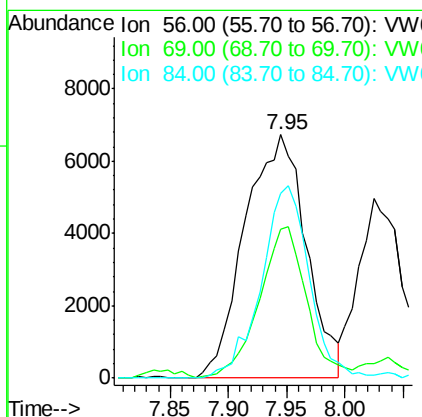
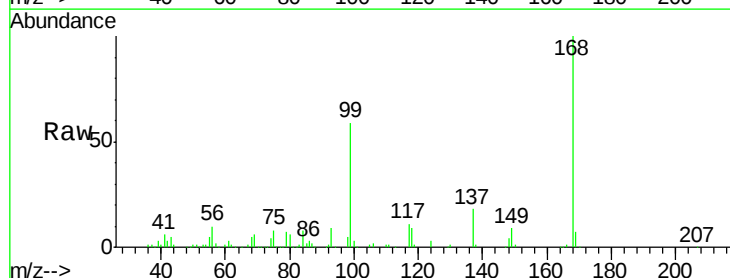
Instrument :
MSVOA_W
ClientSampled :
PAR-5

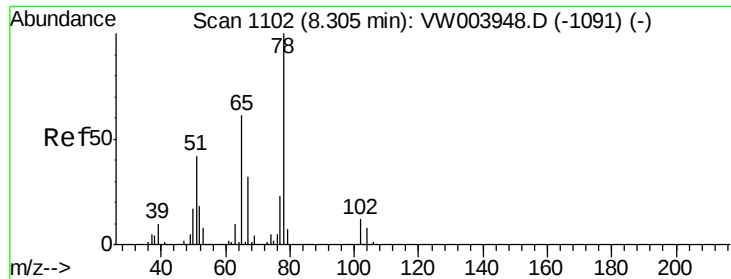
Tot Ion: 43 Resp: 31071
Ion Ratio Lower Upper
43 100
72 25.2 19.8 29.6



#31
Cyclohexane
Concen: 8.79 ug/l
RT: 7.95 min Scan# 1043
Delta R.T. -0.01 min
Lab File: VW003958.D
Acq: 16 Jul 2018 18:24

Tgt Ion: 56 Resp: 24520
Ion Ratio Lower Upper
56 100
69 59.9 27.8 41.8#
84 76.0 67.2 100.8

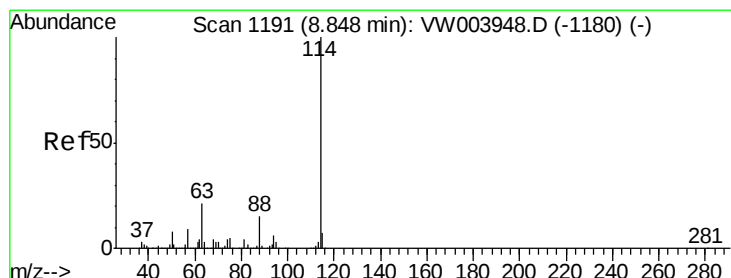
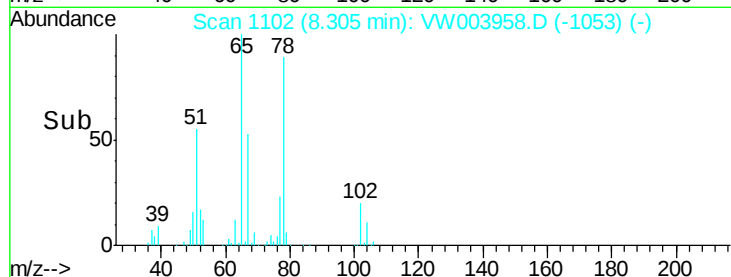
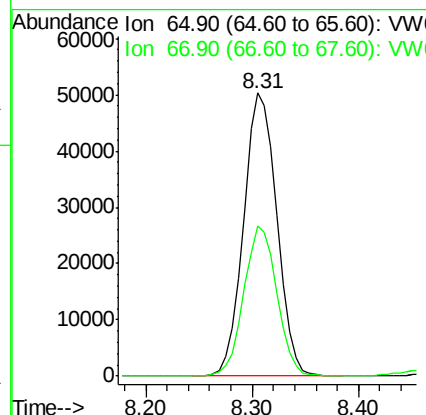
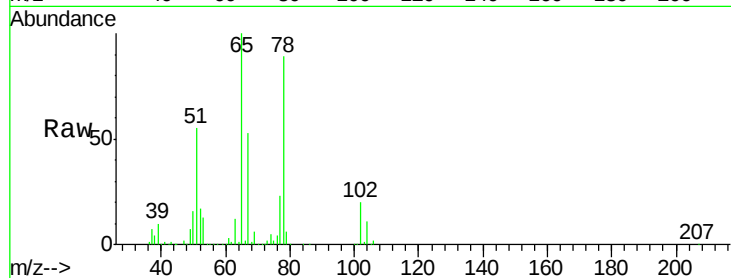




#33
 1,2-Dichloroethane-d4
 Concen: 65.76 ug/l
 RT: 8.31 min Scan# 1102
 Delta R.T. -0.00 min
 Lab File: VW003958.D
 Acq: 16 Jul 2018 18:24

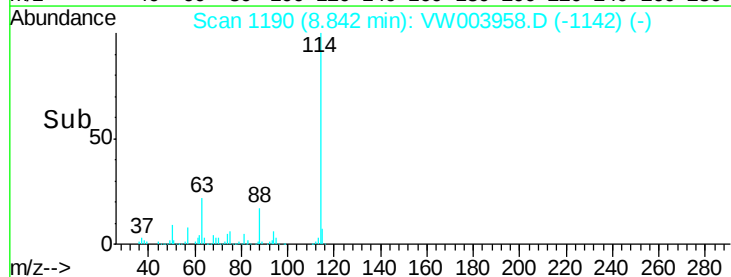
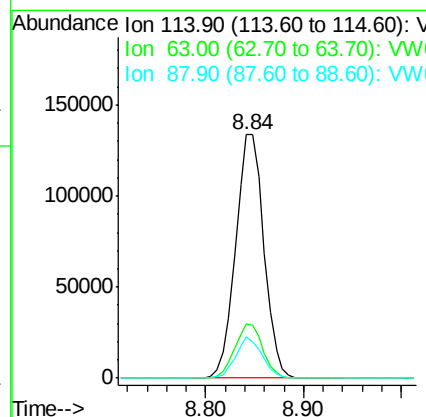
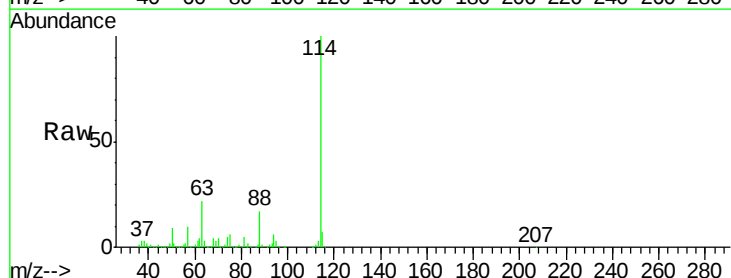
Instrument :
 MSVOA_W
 ClientSampled :
 PAR-5

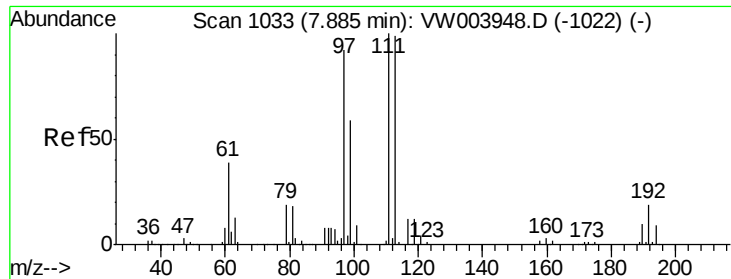
Tot Ion: 65 Resp: 110548
 Ion Ratio Lower Upper
 65 100
 67 52.8 0.0 105.0



#34
 1,4-Difluorobenzene
 Concen: 50.00 ug/l
 RT: 8.84 min Scan# 1190
 Delta R.T. -0.01 min
 Lab File: VW003958.D
 Acq: 16 Jul 2018 18:24

Tgt Ion: 114 Resp: 267469
 Ion Ratio Lower Upper
 114 100
 63 22.4 0.0 42.8
 88 16.8 0.0 30.4

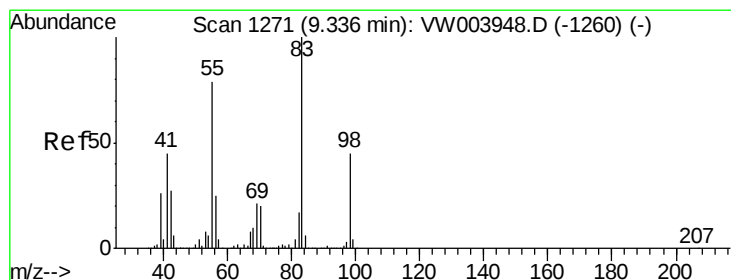
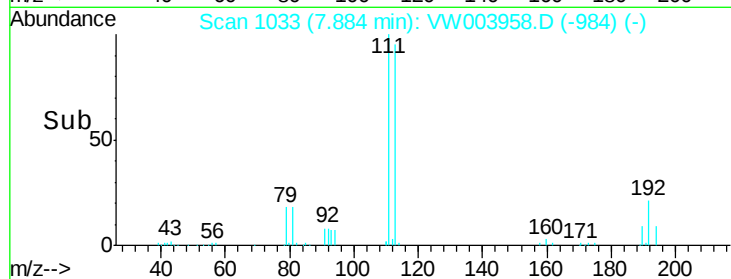
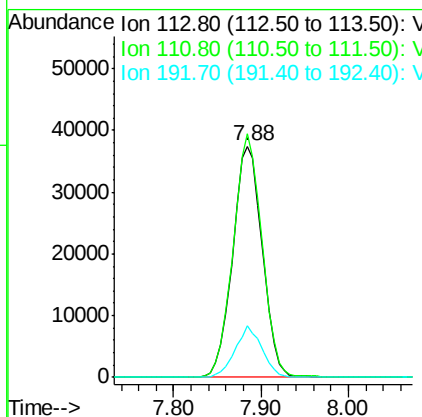
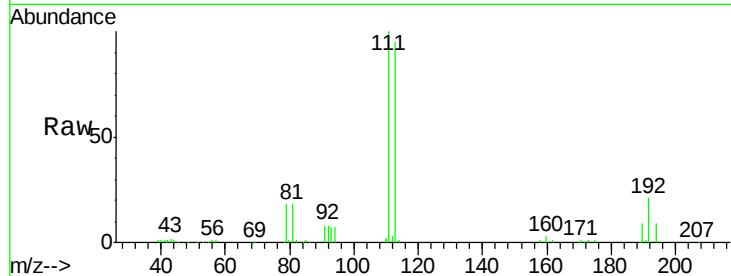




#35
Dibromofluoromethane
Concen: 51.35 ug/l
RT: 7.88 min Scan# 1033
Delta R.T. -0.00 min
Lab File: VW003958.D
Acq: 16 Jul 2018 18:24

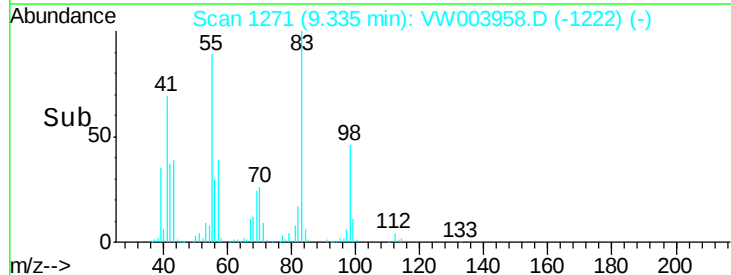
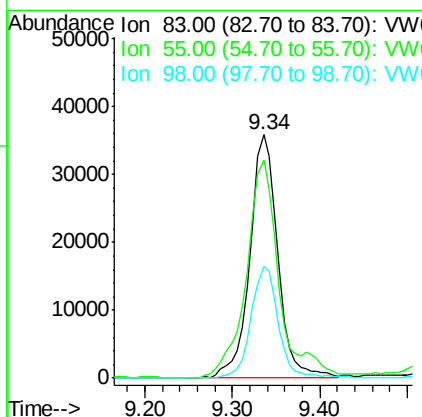
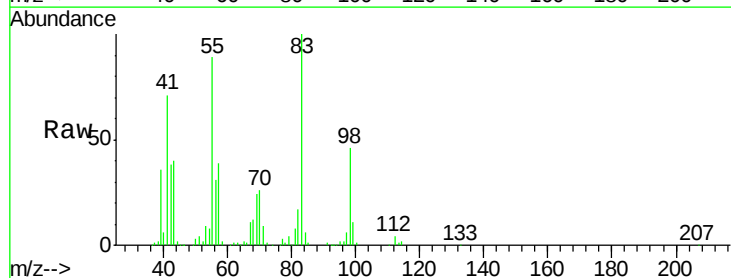
Instrument :
MSVOA_W
ClientSampled :
PAR-5

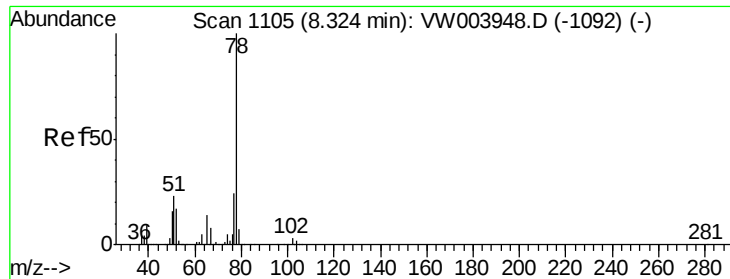
Tot Ion:113 Resp: 88130
Ion Ratio Lower Upper
113 100
111 102.6 81.3 121.9
192 20.1 15.8 23.6



#39
Methylcyclohexane
Concen: 24.76 ug/l
RT: 9.34 min Scan# 1271
Delta R.T. -0.00 min
Lab File: VW003958.D
Acq: 16 Jul 2018 18:24

Tgt Ion: 83 Resp: 79793
Ion Ratio Lower Upper
83 100
55 89.3 62.8 94.2
98 46.1 36.2 54.4





#40

Benzene

Concen: 29.53 ug/l

RT: 8.32 min Scan# 1105

Delta R.T. -0.00 min

Lab File: VW003958.D

Acq: 16 Jul 2018 18:24

Instrument :

MSVOA_W

ClientSampleId :

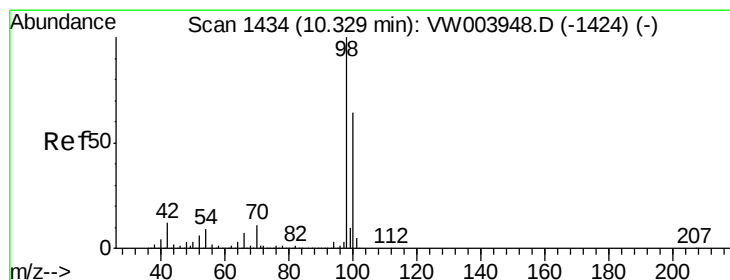
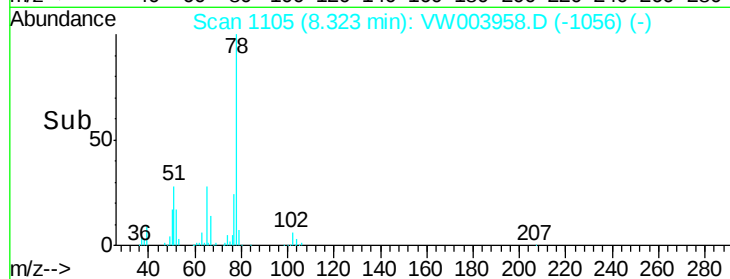
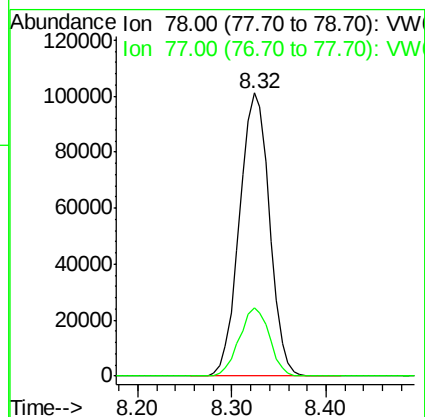
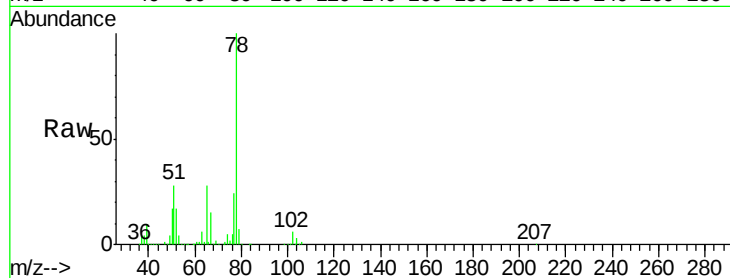
PAR-5

Tot Ion: 78 Resp: 225449

Ion Ratio Lower Upper

78 100

77 24.1 19.5 29.3



#50

Toluene-d8

Concen: 41.18 ug/l

RT: 10.33 min Scan# 1434

Delta R.T. -0.00 min

Lab File: VW003958.D

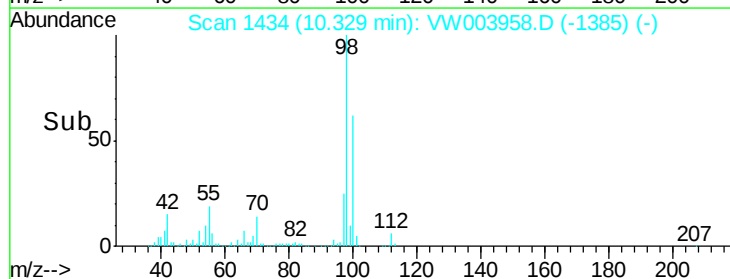
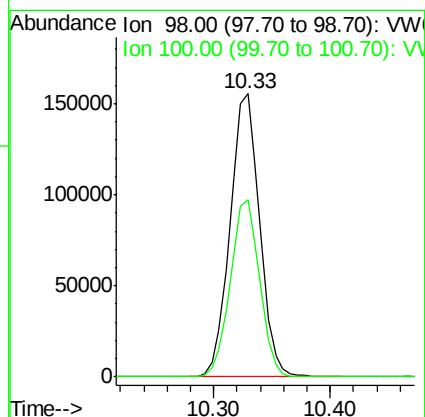
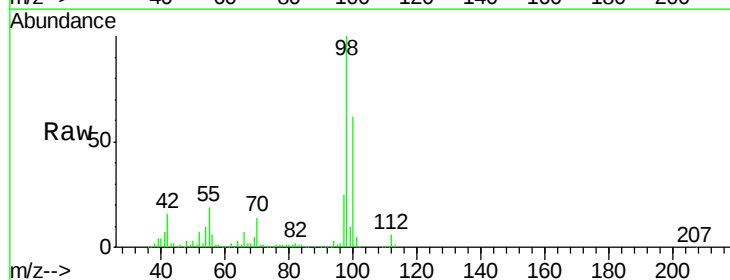
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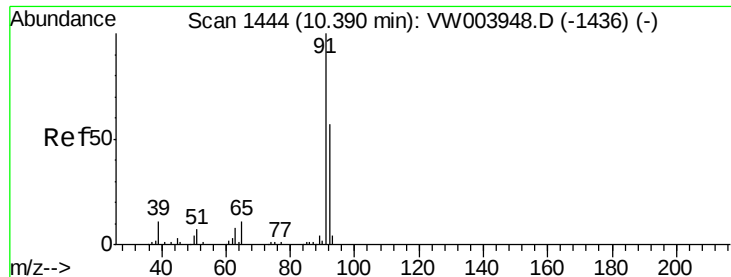
Tgt Ion: 98 Resp: 274209

Ion Ratio Lower Upper

98 100

100 62.0 51.2 76.8





#52

Toluene

Concen: 157.35 ug/l

RT: 10.39 min Scan# 1444

Delta R.T. -0.00 min

Lab File: VW003958.D

Acq: 16 Jul 2018 18:24

Instrument :

MSVOA_W

ClientSampled :

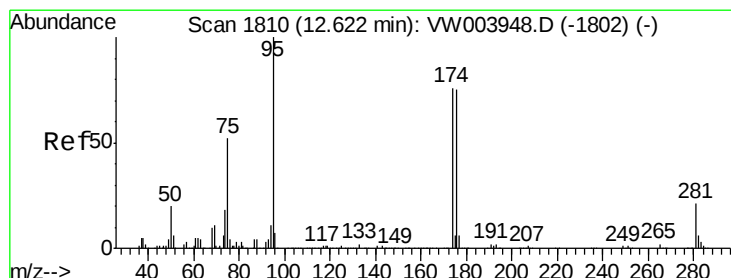
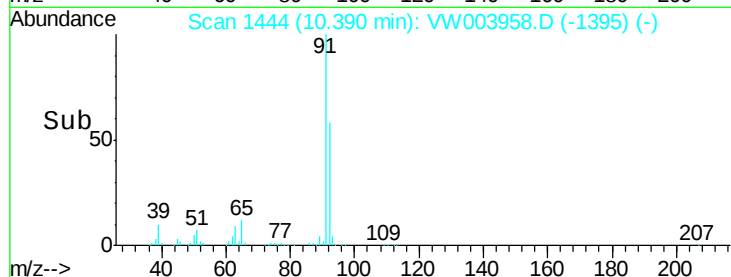
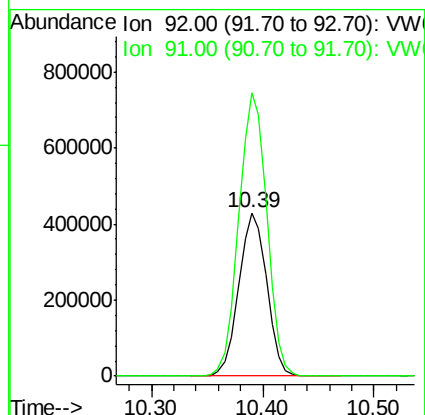
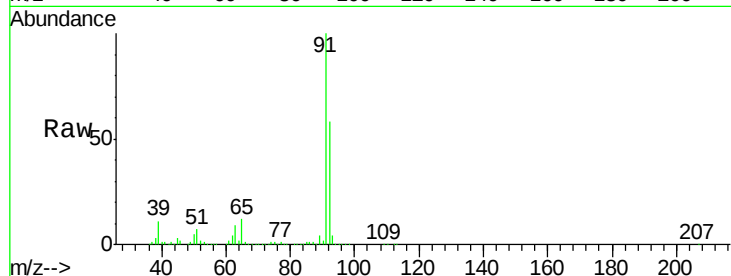
PAR-5

Tot Ion: 92 Resp: 742845

Ion Ratio Lower Upper

92 100

91 174.5 139.6 209.4



#62

4-Bromofluorobenzene

Concen: 49.02 ug/l

RT: 12.62 min Scan# 1810

Delta R.T. -0.00 min

Lab File: VW003958.D

Acq: 16 Jul 2018 18:24

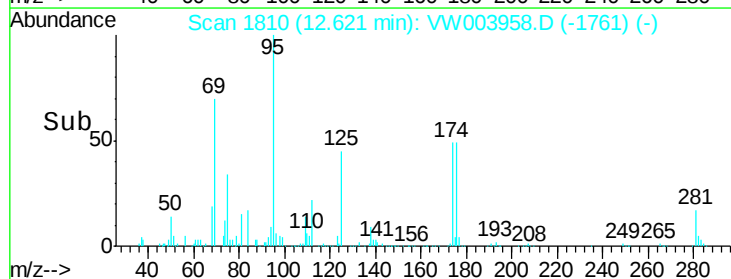
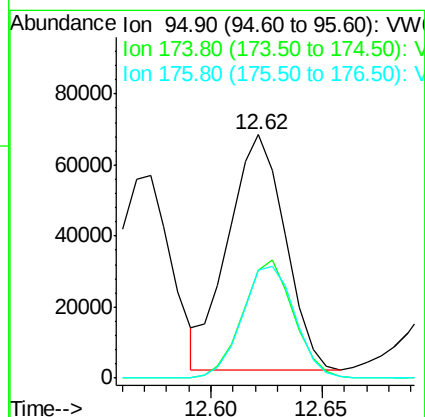
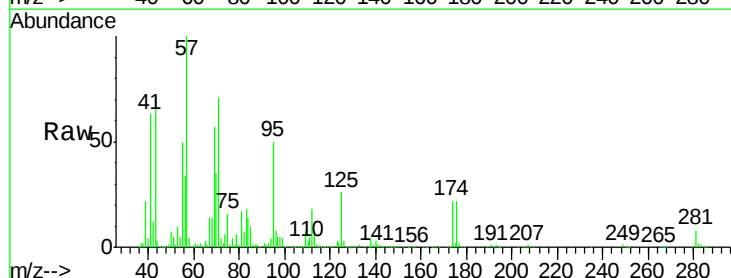
Tgt Ion: 95 Resp: 117704

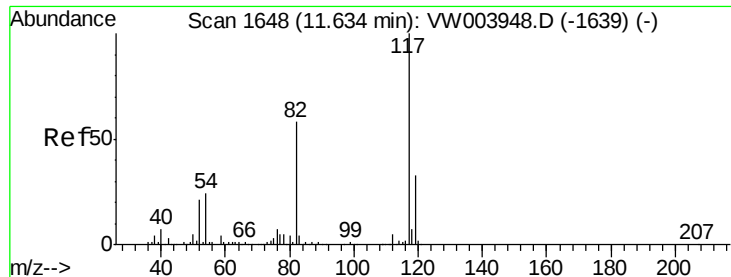
Ion Ratio Lower Upper

95 100

174 45.0 0.0 160.2

176 44.2 0.0 155.8

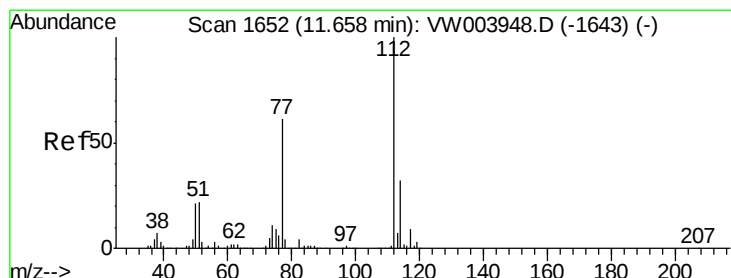
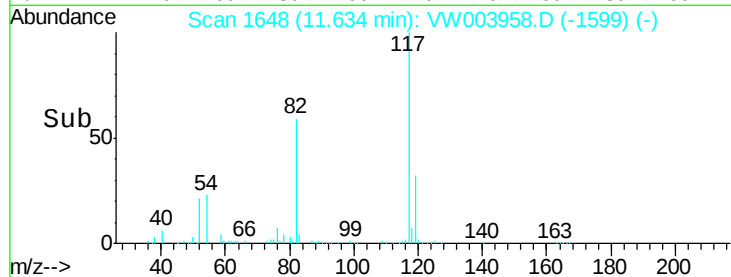
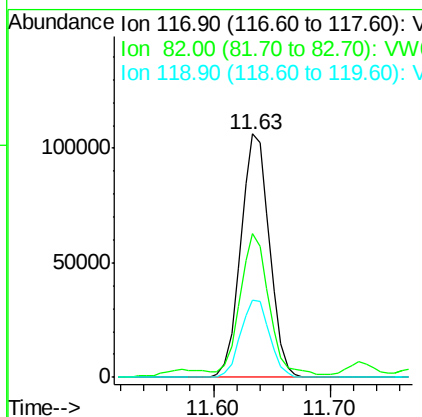
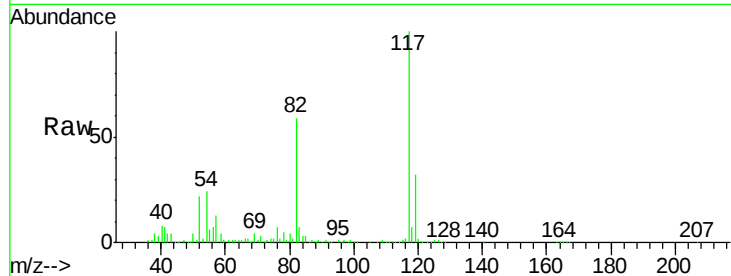




#63
Chlorobenzene-d5
Concen: 50.00 ug/l
RT: 11.63 min Scan# 1648
Delta R.T. -0.00 min
Lab File: VW003958.D
Acq: 16 Jul 2018 18:24

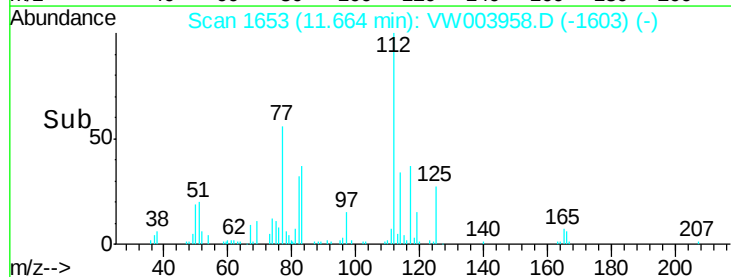
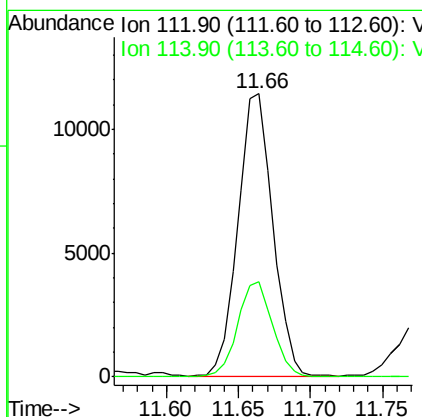
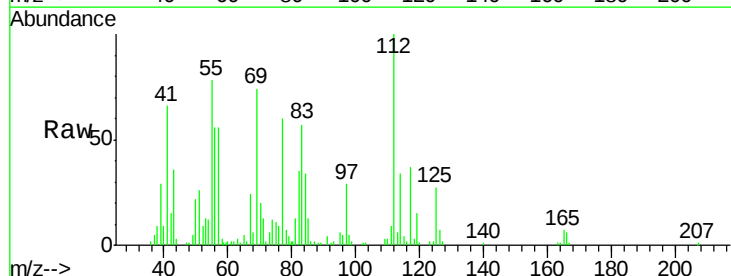
Instrument :
MSVOA_W
ClientSampled :
PAR-5

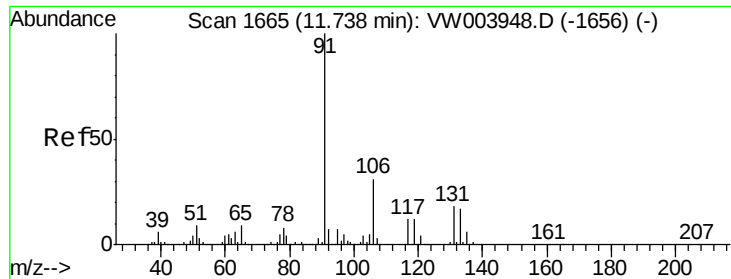
Tot Ion:117 Resp: 182040
Ion Ratio Lower Upper
117 100
82 57.4 46.5 69.7
119 32.0 26.2 39.2



#65
Chlorobenzene
Concen: 4.98 ug/l
RT: 11.66 min Scan# 1653
Delta R.T. 0.01 min
Lab File: VW003958.D
Acq: 16 Jul 2018 18:24

Tgt Ion:112 Resp: 19281
Ion Ratio Lower Upper
112 100
114 33.8 25.2 37.8

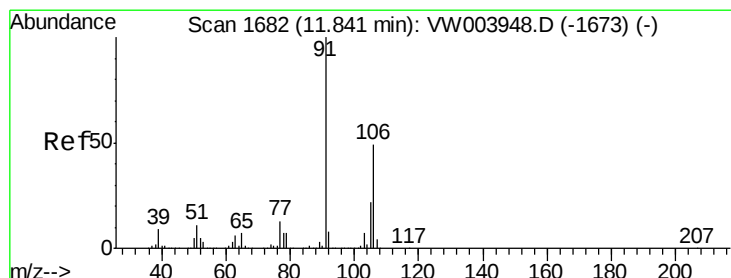
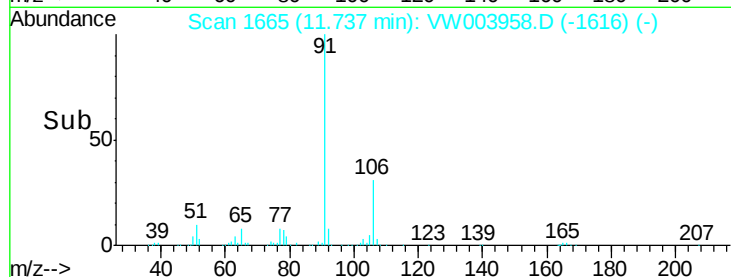
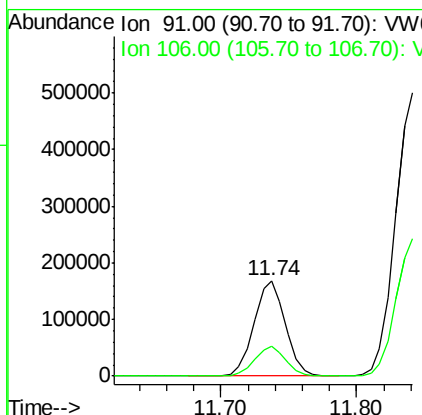
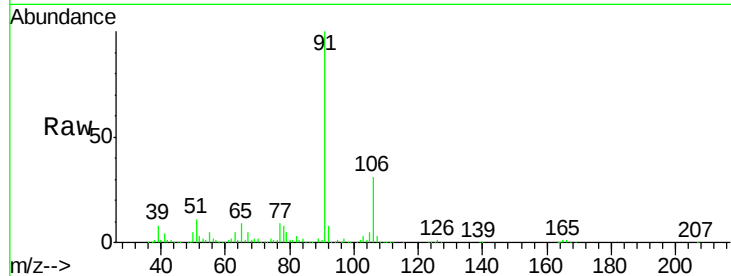




#67
Ethyl Benzene
Concen: 39.82 ug/l
RT: 11.74 min Scan# 1665
Delta R.T. -0.00 min
Lab File: VW003958.D
Acq: 16 Jul 2018 18:24

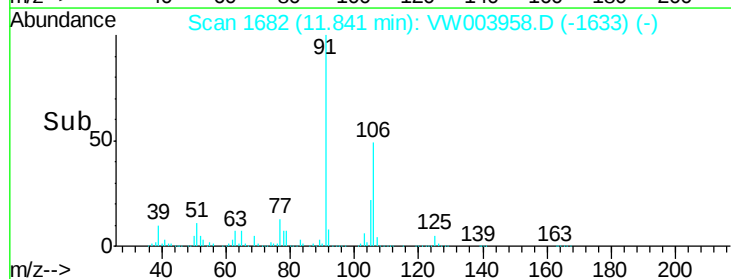
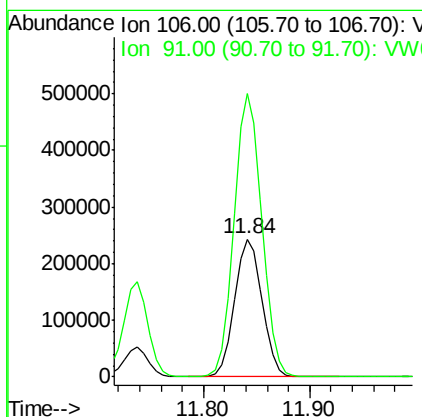
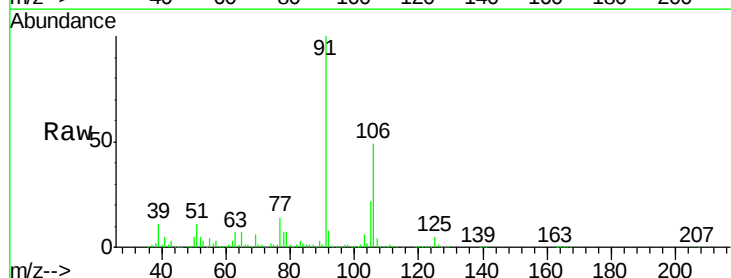
Instrument :
MSVOA_W
ClientSampled :
PAR-5

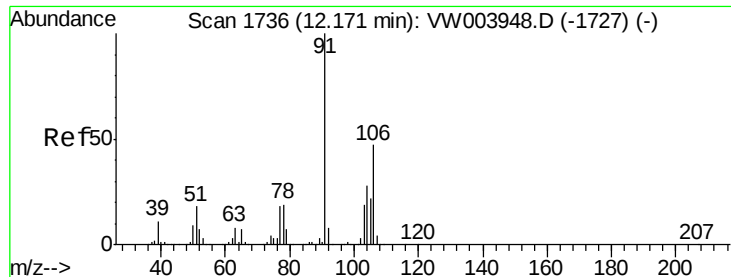
Tot Ion: 91 Resp: 270763
Ion Ratio Lower Upper
91 100
106 30.9 25.0 37.4



#68
m/p-Xylenes
Concen: 169.58 ug/l
RT: 11.84 min Scan# 1682
Delta R.T. -0.00 min
Lab File: VW003958.D
Acq: 16 Jul 2018 18:24

Tgt Ion: 106 Resp: 440735
Ion Ratio Lower Upper
106 100
91 206.8 164.2 246.2

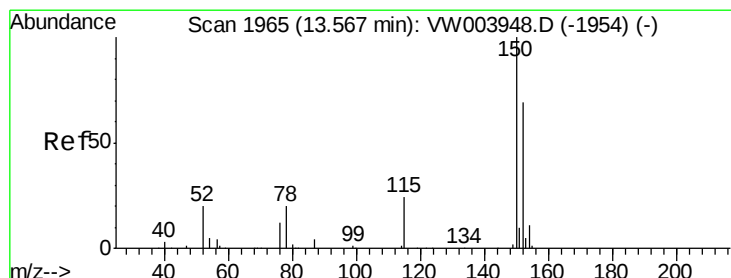
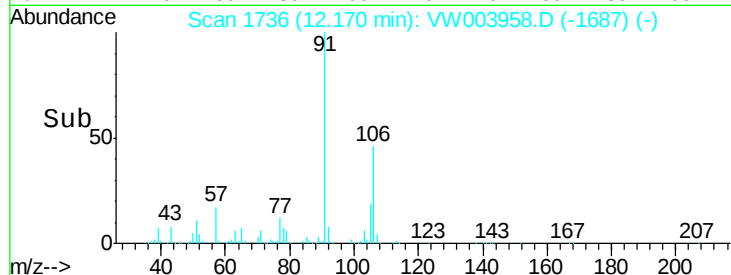
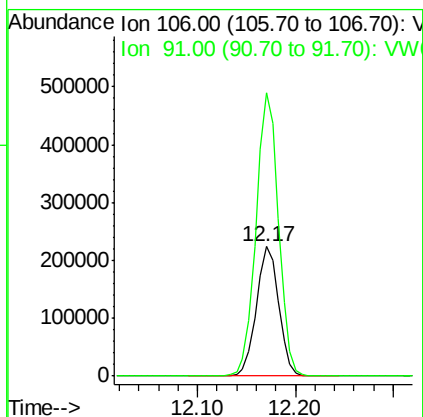
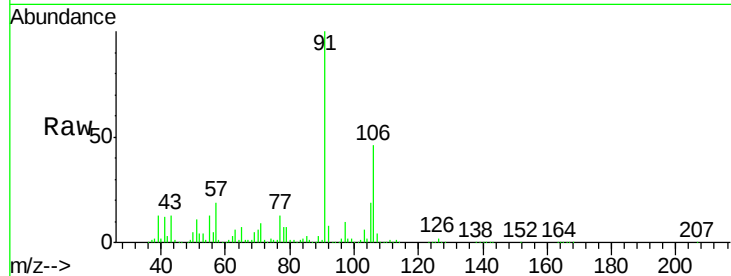




#69
o-Xylene
Concen: 147.91 ug/l
RT: 12.17 min Scan# 1736
Delta R.T. -0.00 min
Lab File: VW003958.D
Acq: 16 Jul 2018 18:24

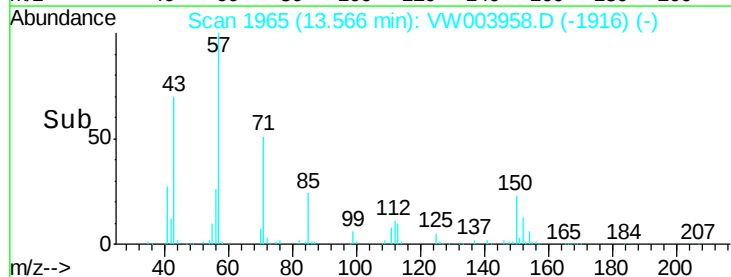
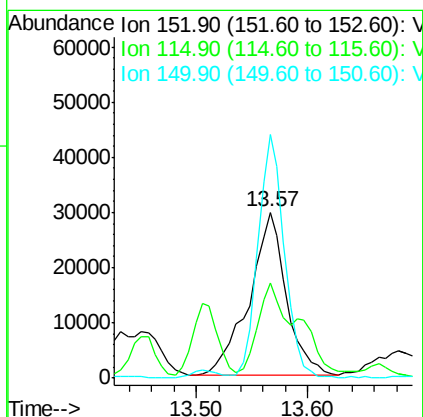
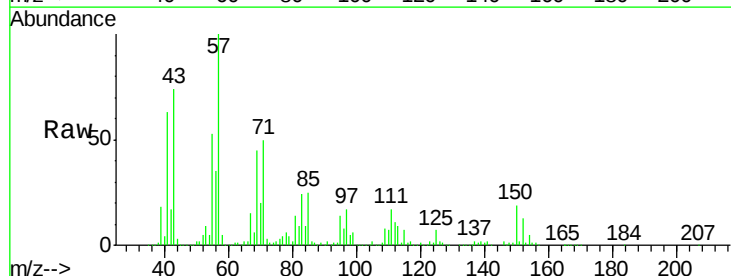
Instrument :
MSVOA_W
ClientSampled :
PAR-5

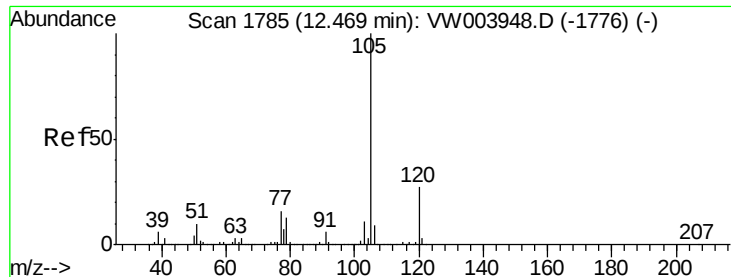
Tot Ion:106 Resp: 356598
Ion Ratio Lower Upper
106 100
91 219.7 107.5 322.6



#72
1,4-Dichlorobenzene-d4
Concen: 50.00 ug/l
RT: 13.57 min Scan# 1965
Delta R.T. -0.00 min
Lab File: VW003958.D
Acq: 16 Jul 2018 18:24

Tgt Ion:152 Resp: 68221
Ion Ratio Lower Upper
152 100
115 56.7 29.2 87.6
150 107.1 0.0 345.2





#73

Isopropylbenzene

Concen: 28.57 ug/l

RT: 12.47 min Scan# 1785

Delta R.T. -0.00 min

Lab File: VW003958.D

Acq: 16 Jul 2018 18:24

Instrument :

MSVOA_W

ClientSampleId :

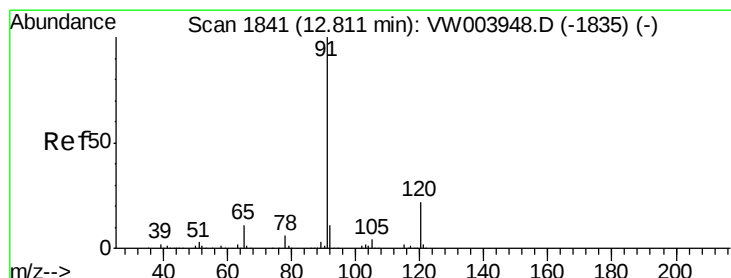
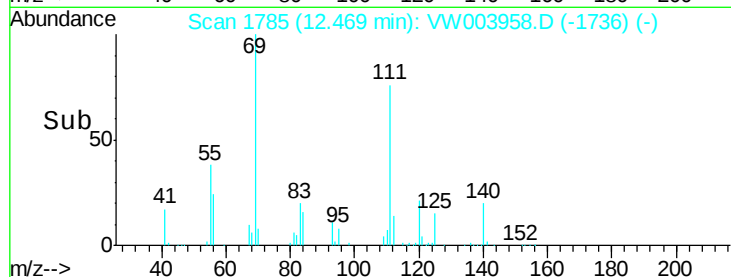
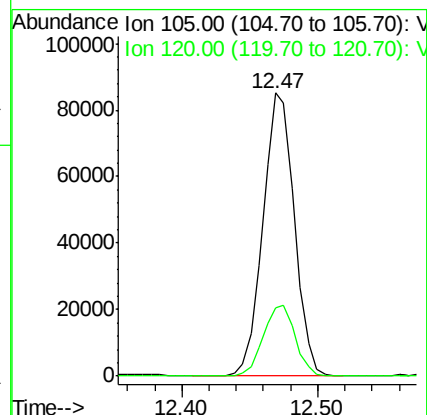
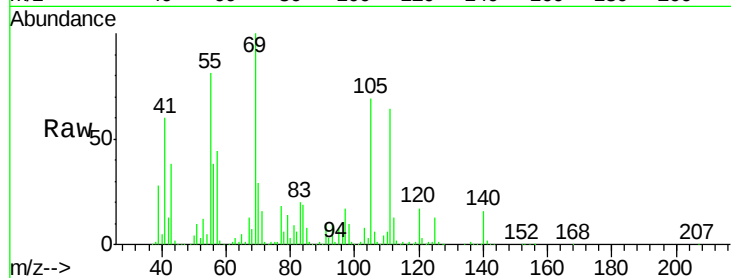
PAR-5

Tot Ion:105 Resp: 137741

Ion Ratio Lower Upper

105 100

120 25.4 13.2 39.6



#78

n-propylbenzene

Concen: 32.66 ug/l

RT: 12.81 min Scan# 1841

Delta R.T. -0.00 min

Lab File: VW003958.D

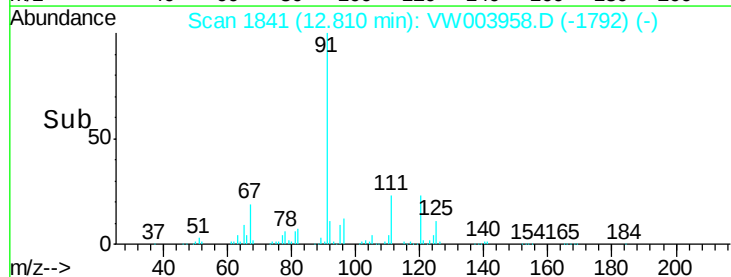
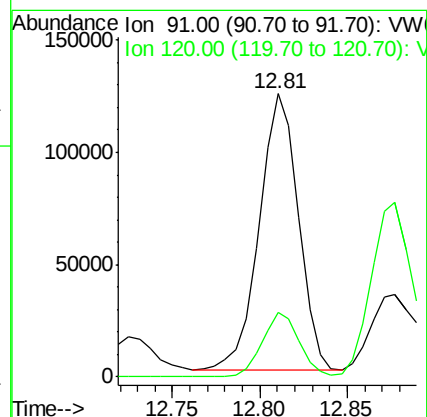
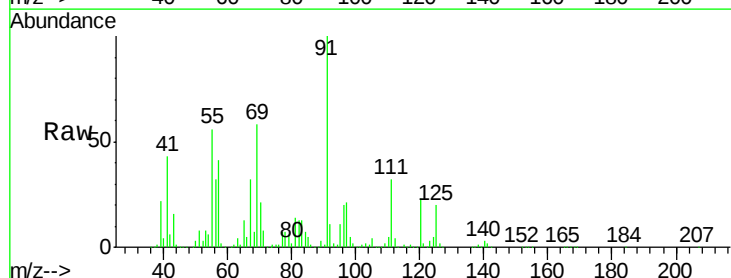
Acq: 16 Jul 2018 18:24

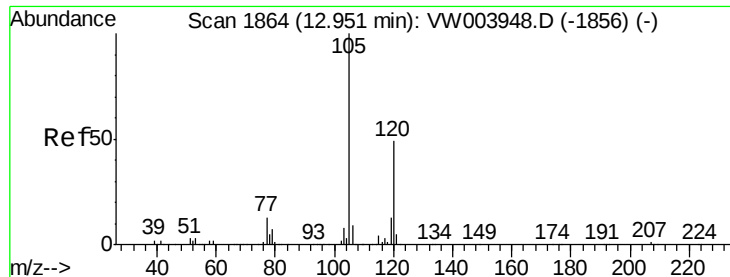
Tgt Ion: 91 Resp: 193160

Ion Ratio Lower Upper

91 100

120 22.1 11.2 33.6





#80

1,3,5-Trimethylbenzene

Concen: 95.19 ug/l

RT: 12.95 min Scan# 1864

Delta R.T. -0.00 min

Lab File: VW003958.D

Acq: 16 Jul 2018 18:24

Instrument :

MSVOA_W

ClientSampleId :

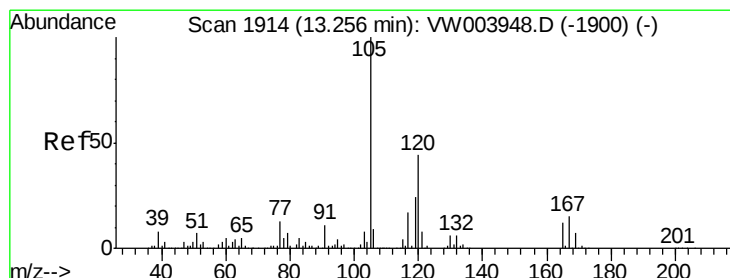
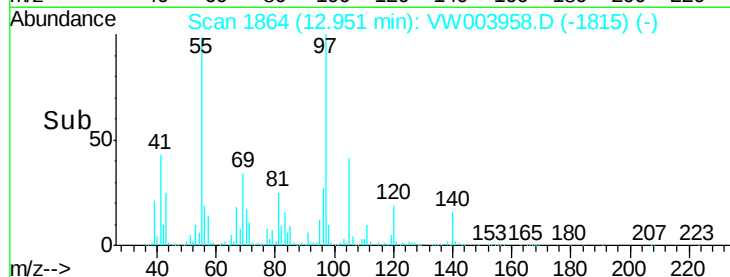
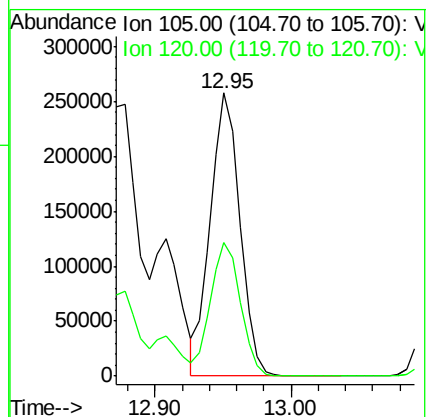
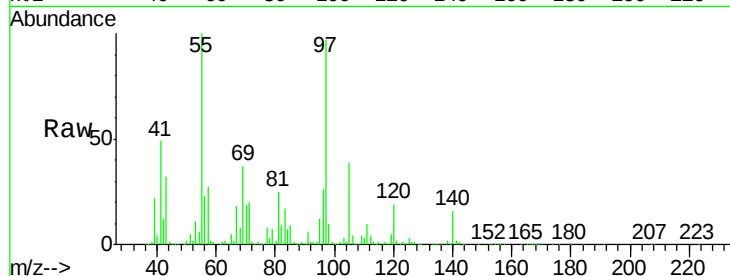
PAR-5

Tot Ion:105 Resp: 386150

Ion Ratio Lower Upper

105 100

120 48.7 24.4 73.2



#84

1,2,4-Trimethylbenzene

Concen: 214.30 ug/l

RT: 13.26 min Scan# 1915

Delta R.T. 0.01 min

Lab File: VW003958.D

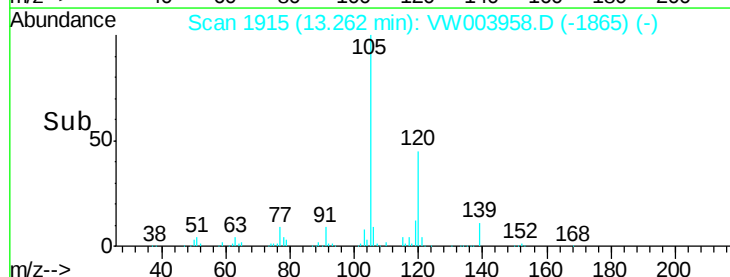
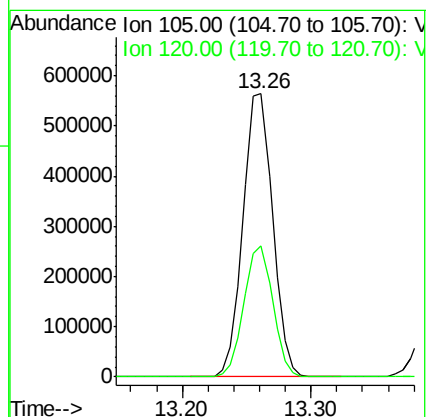
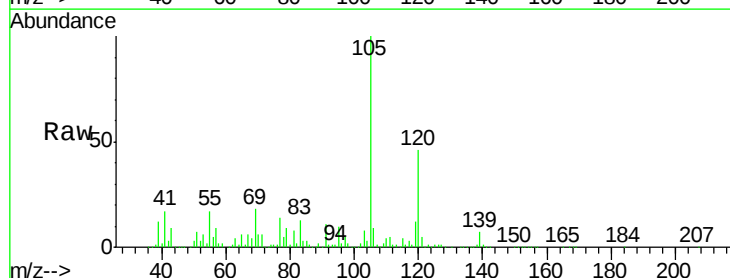
Acq: 16 Jul 2018 18:24

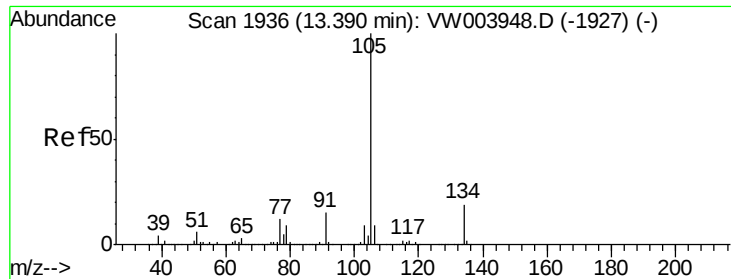
Tgt Ion:105 Resp: 894463

Ion Ratio Lower Upper

105 100

120 45.4 22.1 66.1

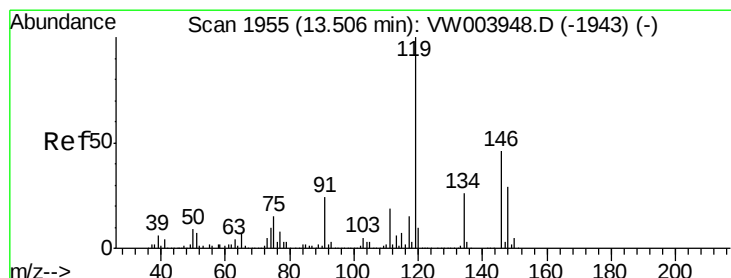
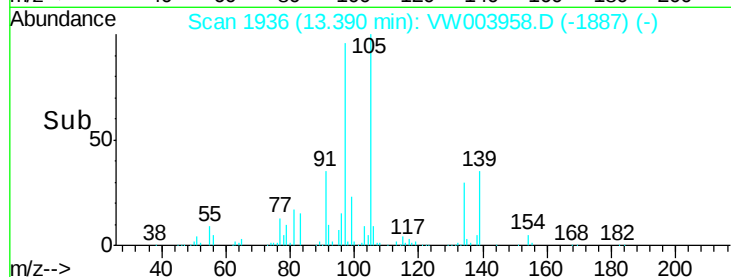
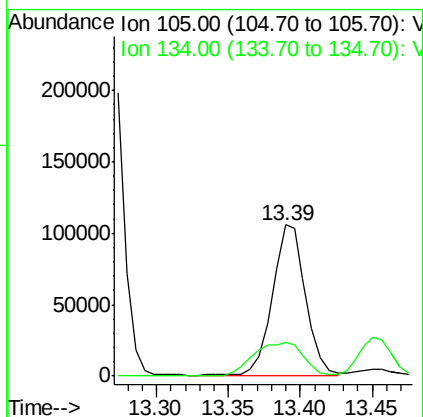
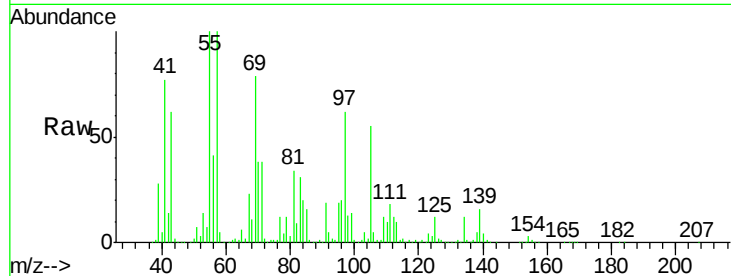




#85
 sec-Butylbenzene
 Concen: 32.99 ug/l
 RT: 13.39 min Scan# 1936
 Delta R.T. -0.00 min
 Lab File: VW003958.D
 Acq: 16 Jul 2018 18:24

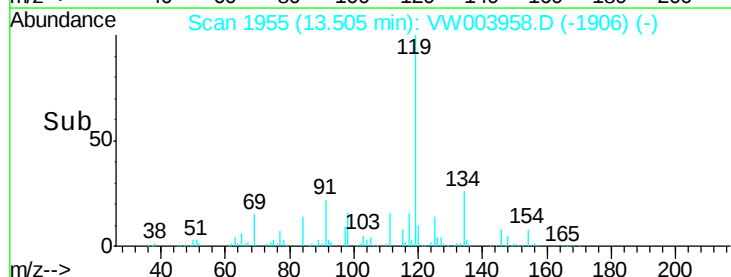
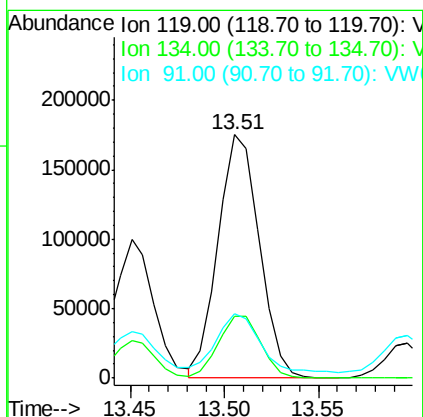
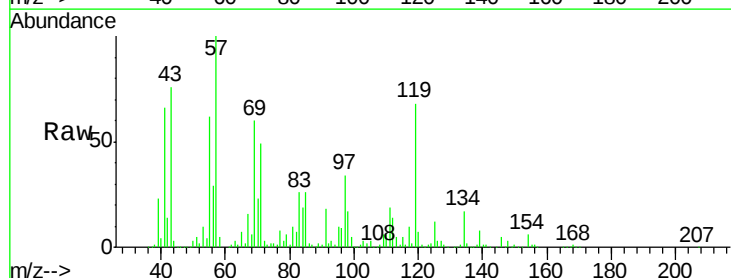
Instrument :
 MSVOA_W
 ClientSampled :
 PAR-5

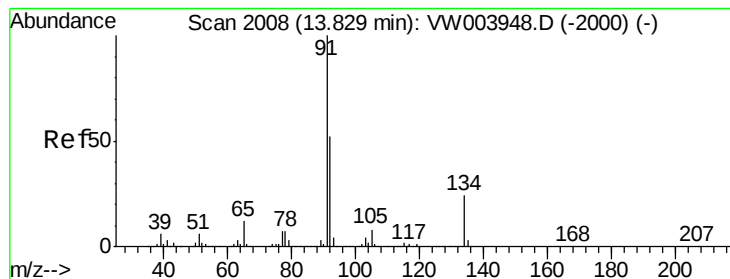
Tot Ion:105 Resp: 166708
 Ion Ratio Lower Upper
 105 100
 134 34.3 9.8 29.4#



#86
 p-Isopropyltoluene
 Concen: 60.03 ug/l
 RT: 13.51 min Scan# 1955
 Delta R.T. -0.00 min
 Lab File: VW003958.D
 Acq: 16 Jul 2018 18:24

Tgt Ion:119 Resp: 266103
 Ion Ratio Lower Upper
 119 100
 134 26.4 13.0 38.9
 91 25.4 11.8 35.3





#89

n-Butylbenzene

Concen: 34.72 ug/l

RT: 13.83 min Scan# 2009

Delta R.T. 0.01 min

Lab File: VW003958.D

Acq: 16 Jul 2018 18:24

Instrument :

MSVOA_W

ClientSampled :

PAR-5

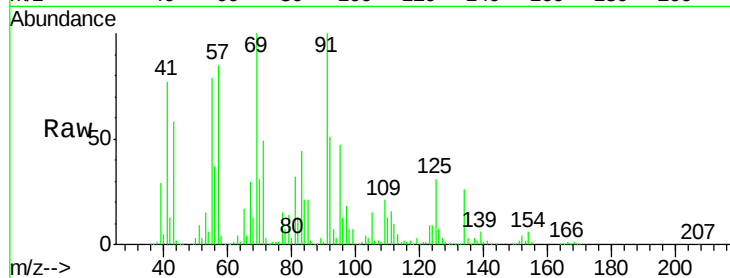
Tot Ion: 91 Resp: 151303

Ion Ratio Lower Upper

91 100

92 57.1 26.1 78.3

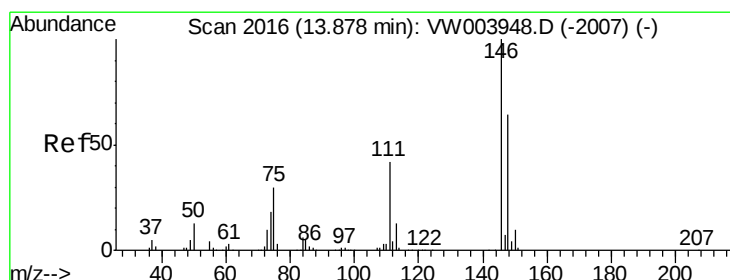
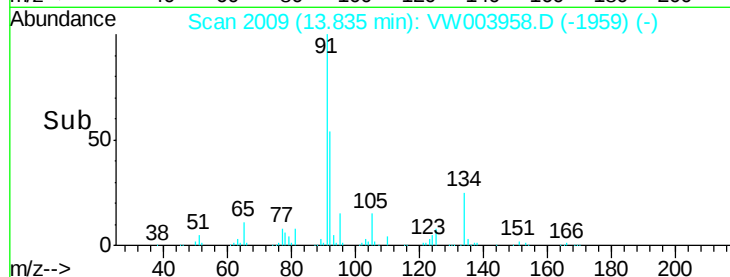
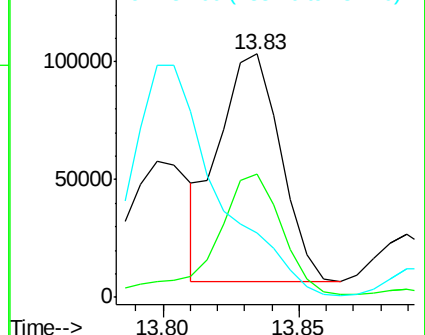
134 0.0 12.4 37.4#



Abundance Ion 91.00 (90.70 to 91.70): VW

Ion 92.00 (91.70 to 92.70): VW

Ion 134.00 (133.70 to 134.70): V



#91

1,2-Dichlorobenzene

Concen: 18.39 ug/l

RT: 13.88 min Scan# 2016

Delta R.T. -0.00 min

Lab File: VW003958.D

Acq: 16 Jul 2018 18:24

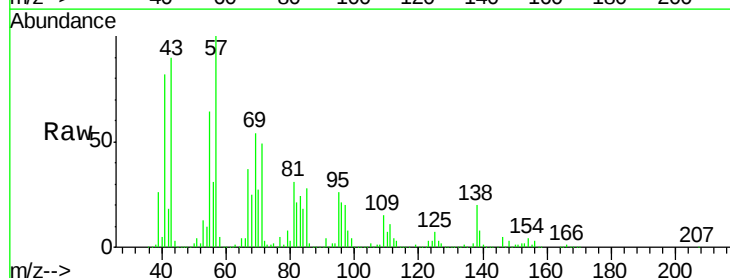
Tgt Ion: 146 Resp: 37739

Ion Ratio Lower Upper

146 100

111 0.0 20.7 62.1#

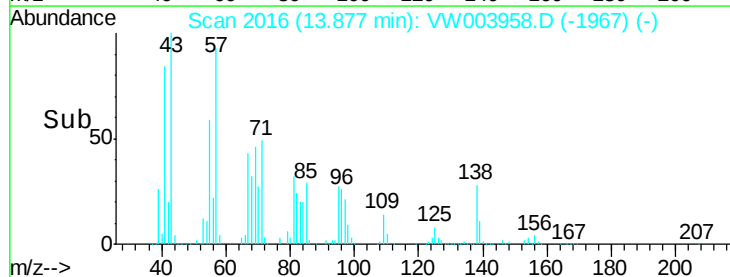
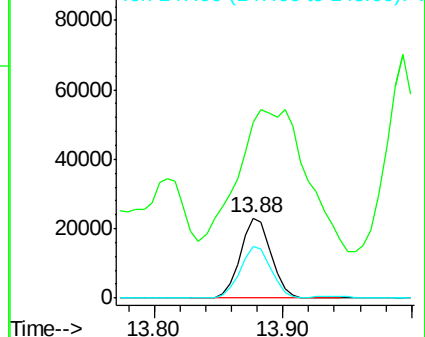
148 64.9 32.0 96.2

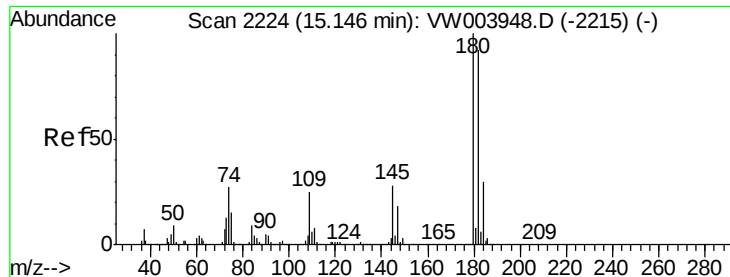


Abundance Ion 145.90 (145.60 to 146.60): V

Ion 110.90 (110.60 to 111.60): V

Ion 147.90 (147.60 to 148.60): V

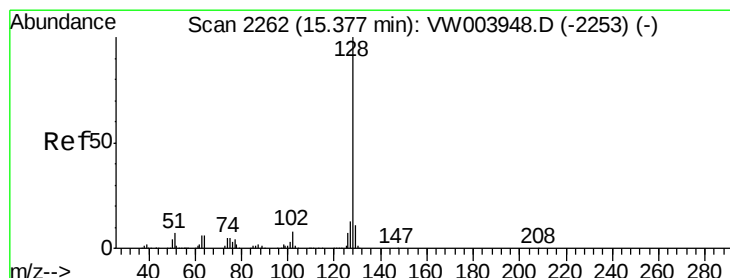
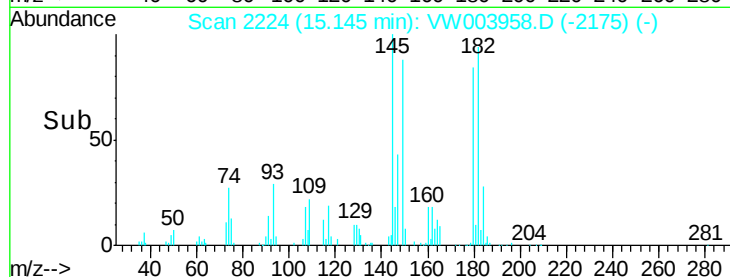
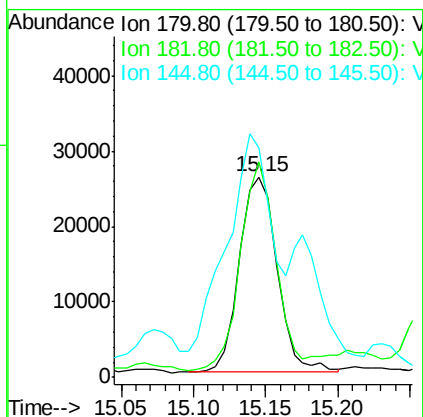
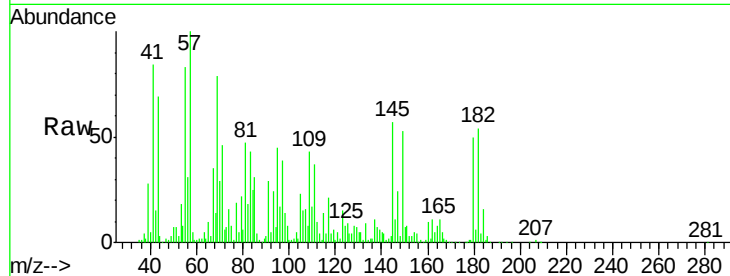




#93
 1,2,4-Trichlorobenzene
 Concen: 32.67 ug/l
 RT: 15.15 min Scan# 2224
 Delta R.T. -0.00 min
 Lab File: VW003958.D
 Acq: 16 Jul 2018 18:24

Instrument :
 MSVOA_W
 ClientSampleId :
 PAR-5

Tot Ion:180 Resp: 47092
 Ion Ratio Lower Upper
 180 100
 182 103.3 46.9 140.8
 145 157.1 15.0 45.0#



#95
 Naphthalene
 Concen: 255.90 ug/l
 RT: 15.38 min Scan# 2262
 Delta R.T. -0.00 min
 Lab File: VW003958.D
 Acq: 16 Jul 2018 18:24

Tgt Ion:128 Resp: 680916
 Ion Ratio Lower Upper
 128 100
 127 15.3 10.7 16.1
 129 11.0 8.7 13.1

