

Data Path : Z:\VOASRV\HPCHEM1\MSVOA W\DATA\VW112618\
 Data File : VW007072.D
 Acq On : 27 Nov 2018 03:53
 Operator : VAY/AP
 Sample : J6055-02RE
 Misc : 3.75G/5ML/MSVOA W/SOIL
 ALS Vial : 42 Sample Multiplier: 1

Instrument :
 MSVOA_W
 ClientSampleId :
 RICH-REC-ROAD-STONE-7

Quant Time: Nov 27 05:32:37 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	115597	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	8.84	114	190573	50.00	ug/l	0.00
63) Chlorobenzene-d5	11.63	117	163783	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.56	152	62212	50.00	ug/l	0.00

System Monitoring Compounds	R.T.	QIon	Response	Conc	Units	Dev(Min)
33) 1,2-Dichloroethane-d4	8.30	65	62469	55.20	ug/l	0.00
Spiked Amount			Recovery	=	110.40%	
35) Dibromofluoromethane	7.94	113	112	0.10	ug/l	0.05
Spiked Amount			Recovery	=	0.20%	
50) Toluene-d8	10.32	98	211364	44.47	ug/l	0.00
Spiked Amount			Recovery	=	88.94%	
62) 4-Bromofluorobenzene	12.62	95	72373	38.70	ug/l	0.00
Spiked Amount			Recovery	=	77.40%	

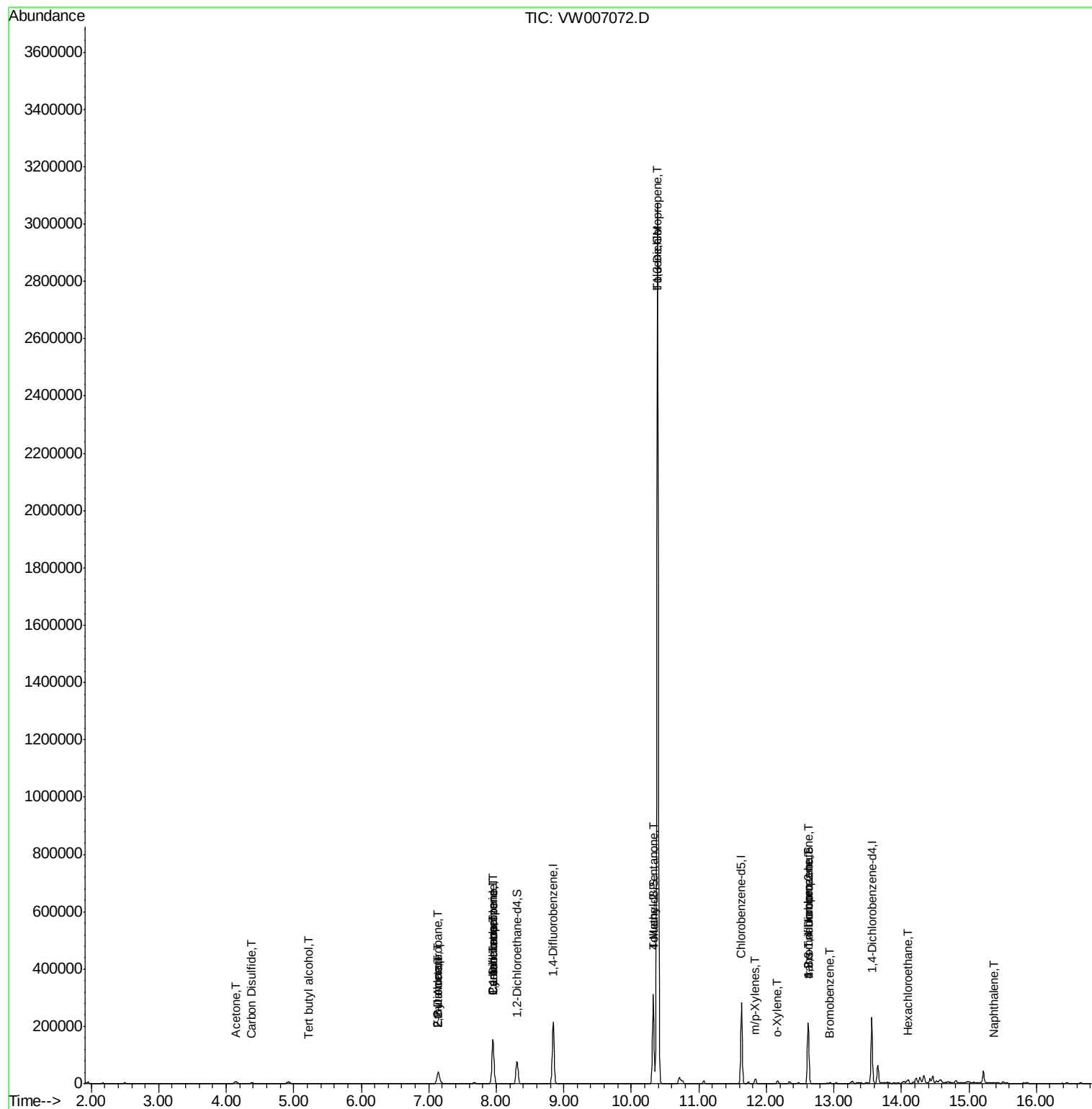
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
11) Tert butyl alcohol	5.22	59	151	2.050	ug/l #	71
16) Acetone	4.15	43	14152	86.129	ug/l	91
17) Carbon Disulfide	4.38	76	6737	1.992	ug/l	96
20) Methylene Chloride	4.92	84	4208	Below Cal		98
25) 2-Butanone	7.14	43	2312	8.215	ug/l #	78
26) 2,2-Dichloropropane	7.14	77	2784	1.507	ug/l #	53
31) Cyclohexane	7.95	56	2358	1.082	ug/l #	2
36) 1,1-Dichloropropene	7.95	75	9012	4.839	ug/l #	50
37) Ethyl Acetate	7.14	43	2312	3.426	ug/l #	1
38) Carbon Tetrachloride	7.95	117	11904	6.675	ug/l #	17
51) 4-Methyl-2-Pentanone	10.33	43	1093	1.682	ug/l #	1
52) Toluene	10.39	92	1349097	394.347	ug/l	97
53) t-1,3-Dichloropropene	10.39	75	16158	10.202	ug/l #	1
68) m/p-Xylenes	11.84	106	5009	2.033	ug/l	90
69) o-Xylene	12.17	106	2484	1.069	ug/l	99
76) 1,2,3-Trichloropropane	12.62	75	35043	71.684	ug/l #	100
77) Bromobenzene	12.94	156	1664	1.602	ug/l #	1
81) trans-1,4-Dichloro-2-buten	12.62	75	35043	179.968	ug/l #	10
90) Hexachloroethane	14.10	117	699	1.061	ug/l #	14
95) Naphthalene	15.37	128	2863	1.288	ug/l #	96

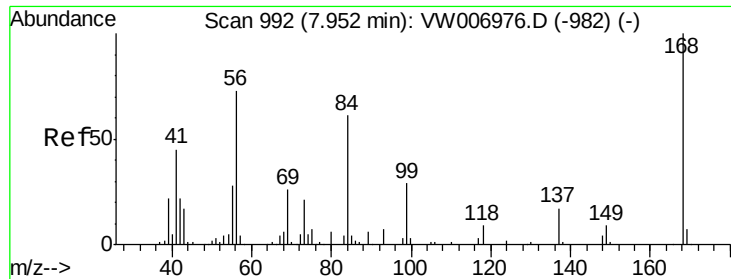
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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Quant Title : SW846 8260
QLast Update : Wed Nov 21 03:23:02 2018
Response via : Initial Calibration





#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 7.95 min Scan# 992

Delta R.T. -0.00 min

Lab File: VW007072.D

Acq: 27 Nov 2018 03:53

Instrument :

MSVOA_W

ClientSampleId :

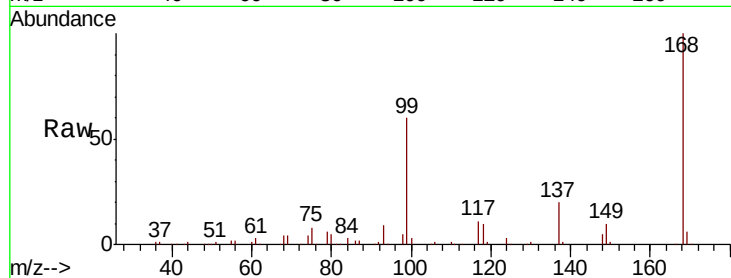
RICH-REC-ROAD-STONE-7

Tot Ion:168 Resp: 115597

Ion Ratio Lower Upper

168 100

99 60.0 48.2 72.4



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VW

7.95

60000

50000

40000

30000

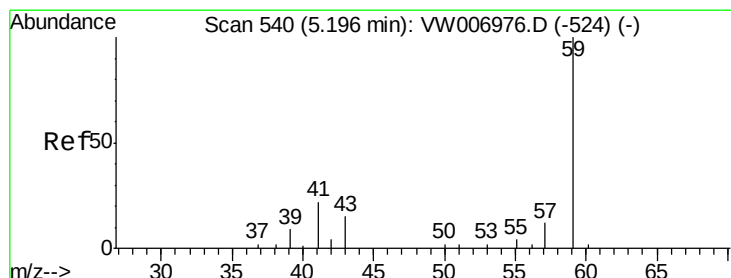
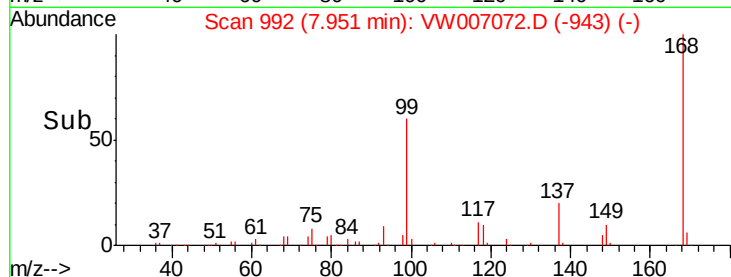
20000

10000

0

Time-->

7.85 7.90 7.95 8.00 8.05



#11

Tert butyl alcohol

Concen: 2.050 ug/l

RT: 5.22 min Scan# 544

Delta R.T. 0.02 min

Lab File: VW007072.D

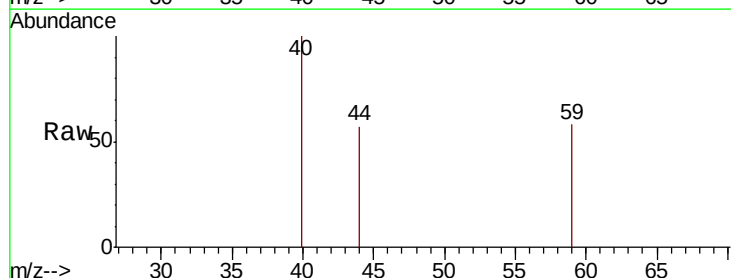
Acq: 27 Nov 2018 03:53

Tgt Ion: 59 Resp: 151

Ion Ratio Lower Upper

59 100

57 0.0 8.6 13.0#



Abundance Ion 59.00 (58.70 to 59.70): VW

Ion 57.00 (56.70 to 57.70): VW

5.22

150

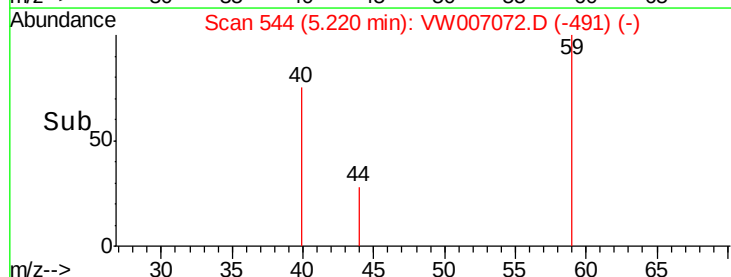
100

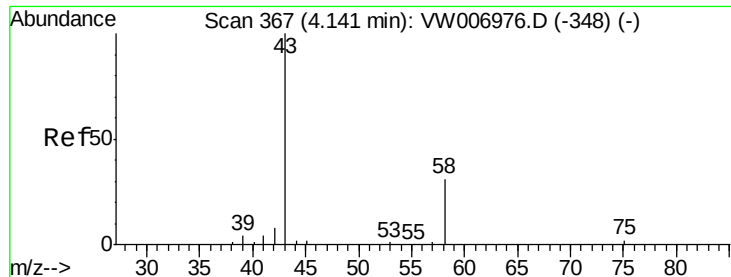
50

0

Time-->

5.20 5.22 5.24





#16

Acetone

Concen: 86.129 ug/l

RT: 4.15 min Scan# 368

Delta R.T. 0.01 min

Lab File: VW007072.D

Acq: 27 Nov 2018 03:53

Instrument :

MSVOA_W

ClientSampleId :

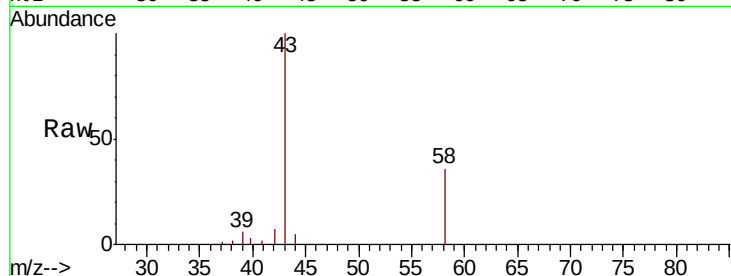
RICH-REC-ROAD-STONE-7

Tot Ion: 43 Resp: 14152

Ion Ratio Lower Upper

43 100

58 35.7 24.8 37.2



Abundance Ion 43.00 (42.70 to 43.70): VW

Ion 58.00 (57.70 to 58.70): VW

4.15

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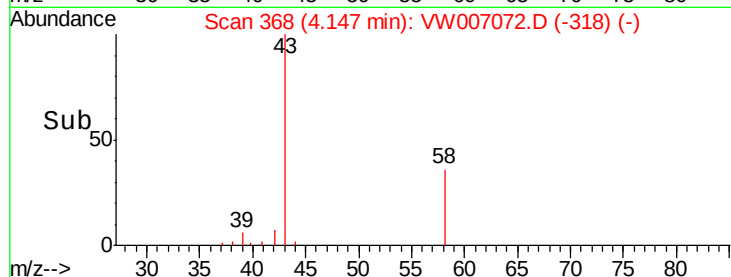
4.15

4.15

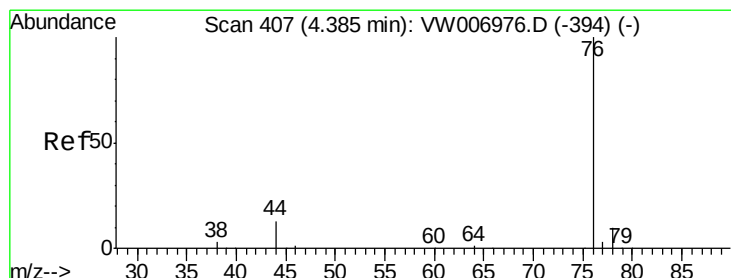
4.15

4.15

4.15



Time-->



#17

Carbon Disulfide

Concen: 1.992 ug/l

RT: 4.38 min Scan# 406

Delta R.T. -0.01 min

Lab File: VW007072.D

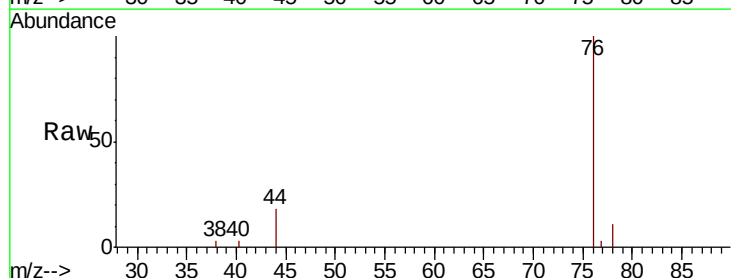
Acq: 27 Nov 2018 03:53

Tgt Ion: 76 Resp: 6737

Ion Ratio Lower Upper

76 100

78 11.1 7.8 11.6



Abundance Ion 75.90 (75.60 to 76.60): VW

Ion 77.90 (77.60 to 78.60): VW

4.38

4.38

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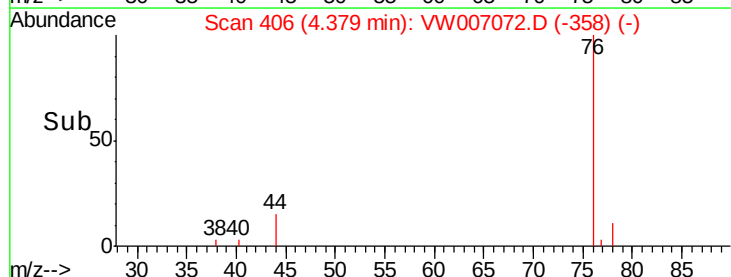
4.38

4.38

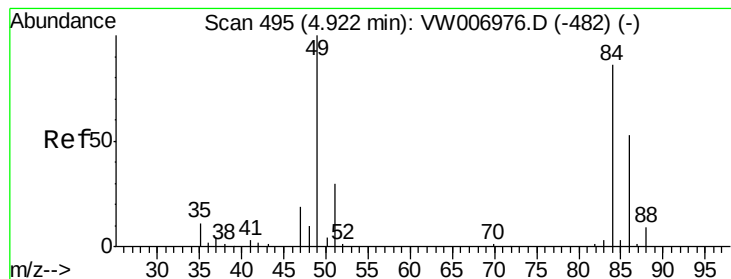
4.38

4.38

4.38



Time-->



#20

Methylene Chloride

Concen: Below Cal

RT: 4.92 min Scan# 494

Delta R.T. -0.01 min

Lab File: VW007072.D

Acq: 27 Nov 2018 03:53

Instrument :

MSVOA_W

ClientSampleId :

RICH-REC-ROAD-STONE-7

Tot Ion: 84 Resp: 4208

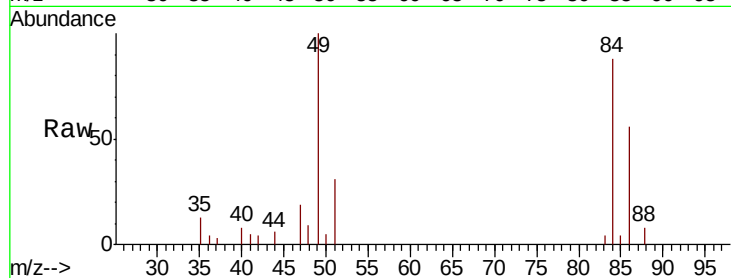
Ion Ratio Lower Upper

84 100

49 113.8 93.4 140.0

51 35.2 28.4 42.6

86 64.1 49.8 74.8



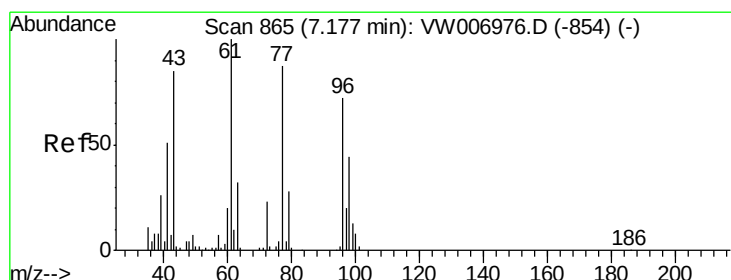
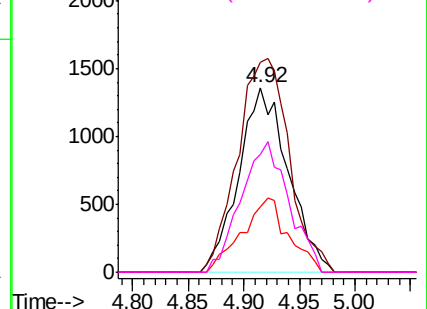
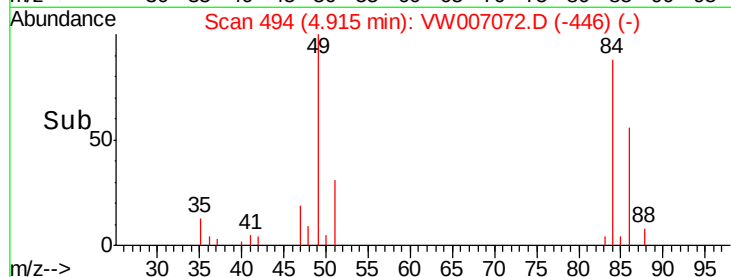
Abundance

Ion 83.90 (83.60 to 84.60): VW

Ion 48.90 (48.60 to 49.60): VW

Ion 50.90 (50.60 to 51.60): VW

Ion 85.90 (85.60 to 86.60): VW



#25

2-Butanone

Concen: 8.215 ug/l

RT: 7.14 min Scan# 859

Delta R.T. -0.04 min

Lab File: VW007072.D

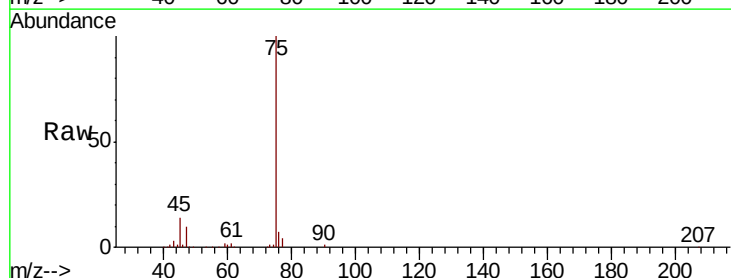
Acq: 27 Nov 2018 03:53

Tgt Ion: 43 Resp: 2312

Ion Ratio Lower Upper

43 100

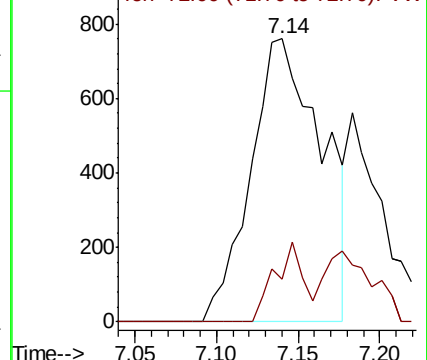
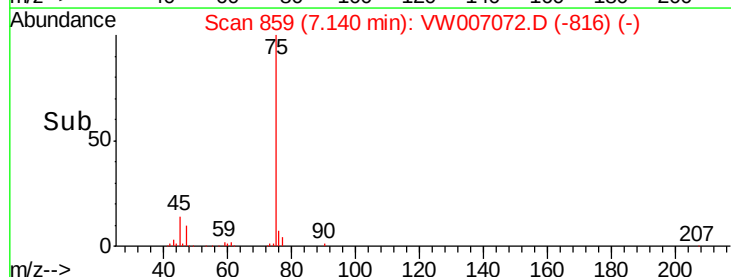
72 15.1 21.3 31.9#

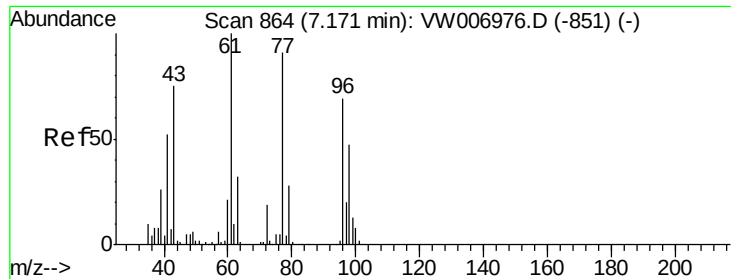


Abundance

Ion 43.00 (42.70 to 43.70): VW

Ion 72.00 (71.70 to 72.70): VW

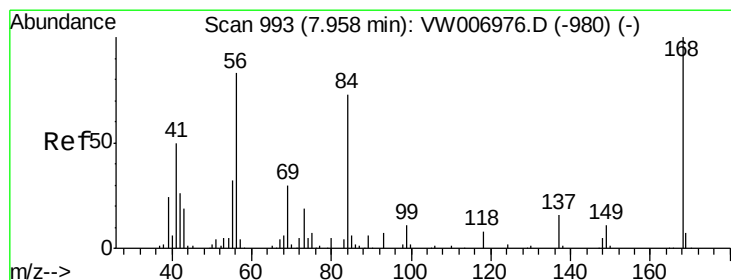
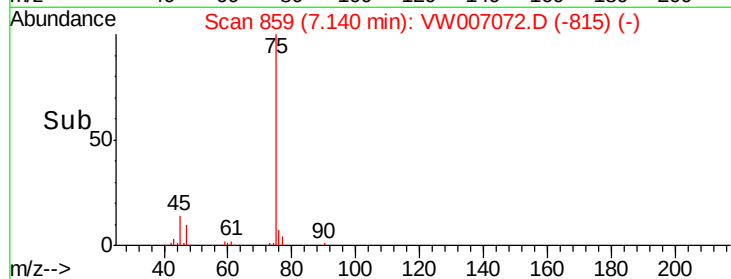
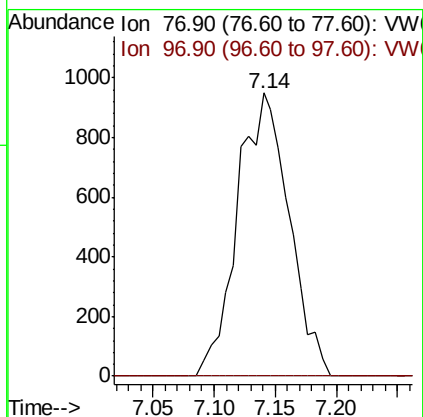
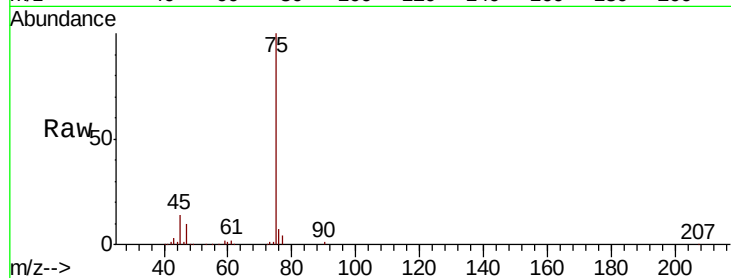




#26
 2,2-Dichloropropane
 Concen: 1.507 ug/l
 RT: 7.14 min Scan# 859
 Delta R.T. -0.03 min
 Lab File: VW007072.D
 Acq: 27 Nov 2018 03:53

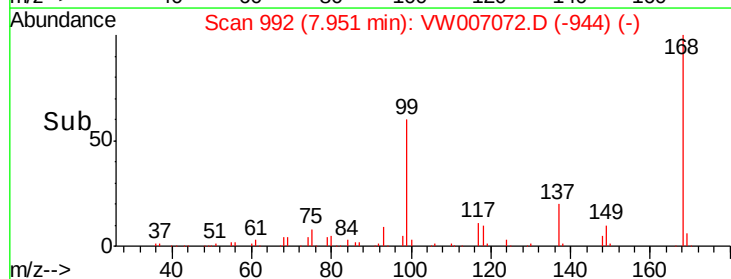
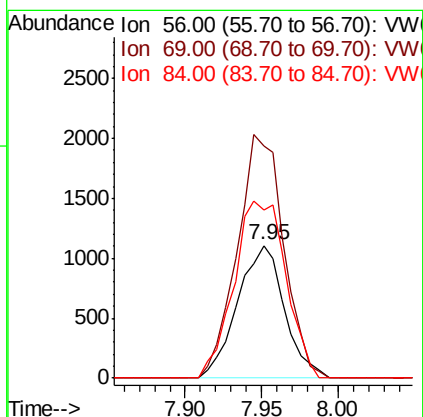
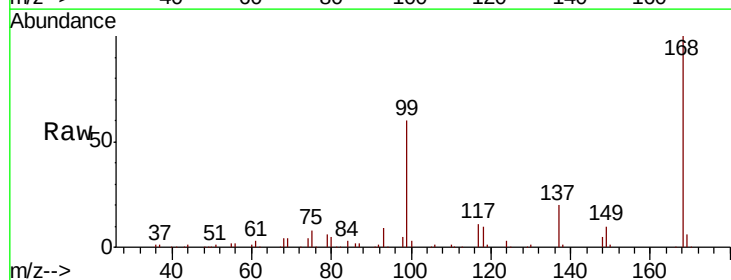
Instrument :
 MSVOA_W
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 RICH-REC-ROAD-STONE-7

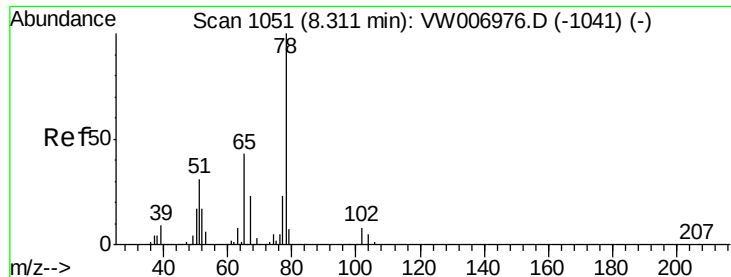
Tot Ion: 77 Resp: 2784
 Ion Ratio Lower Upper
 77 100
 97 0.0 11.4 34.1#



#31
 Cyclohexane
 Concen: 1.082 ug/l
 RT: 7.95 min Scan# 992
 Delta R.T. -0.01 min
 Lab File: VW007072.D
 Acq: 27 Nov 2018 03:53

Tgt Ion: 56 Resp: 2358
 Ion Ratio Lower Upper
 56 100
 69 175.2 29.1 43.7#
 84 127.1 70.6 105.8#

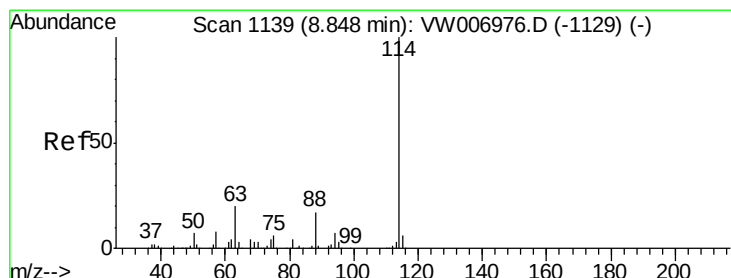
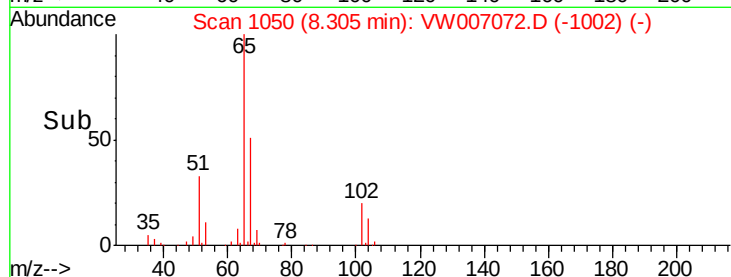
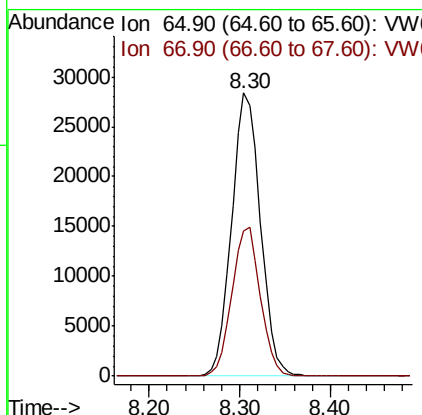
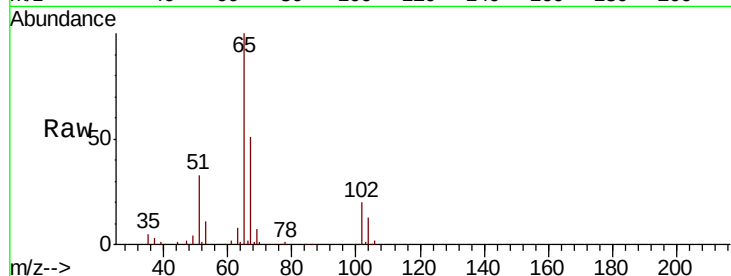




#33
 1,2-Dichloroethane-d4
 Concen: 55.198 ug/l
 RT: 8.30 min Scan# 1050
 Delta R.T. -0.01 min
 Lab File: VW007072.D
 Acq: 27 Nov 2018 03:53

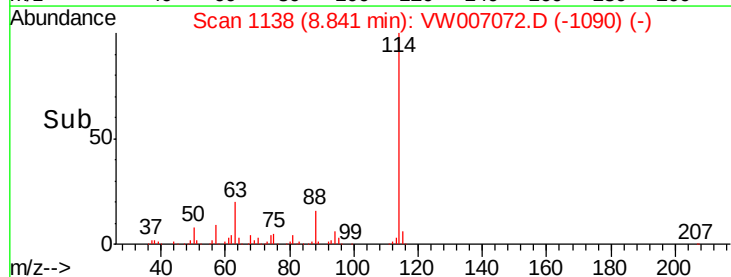
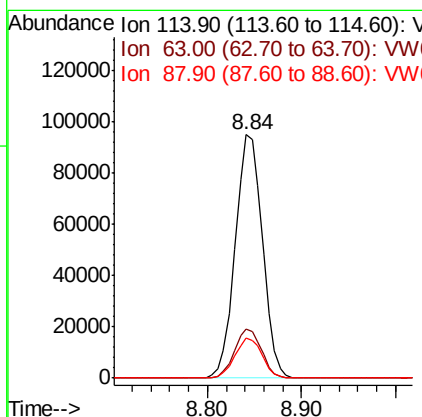
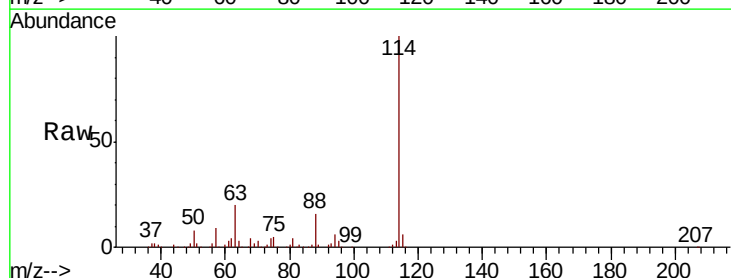
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 ClientSampleId :
 RICH-REC-ROAD-STONE-7

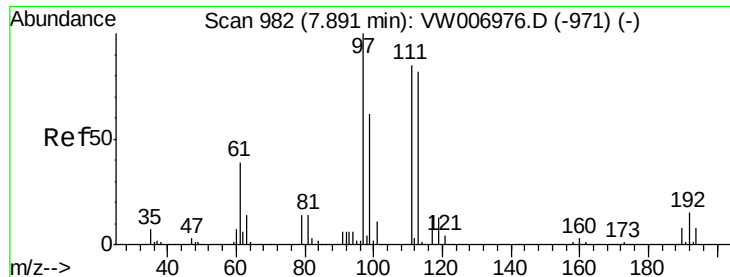
Tot Ion: 65 Resp: 62469
 Ion Ratio Lower Upper
 65 100
 67 51.9 0.0 106.2



#34
 1,4-Difluorobenzene
 Concen: 50.000 ug/l
 RT: 8.84 min Scan# 1138
 Delta R.T. -0.01 min
 Lab File: VW007072.D
 Acq: 27 Nov 2018 03:53

Tgt Ion: 114 Resp: 190573
 Ion Ratio Lower Upper
 114 100
 63 20.0 0.0 39.4
 88 16.5 0.0 34.2





#35

Dibromofluoromethane

Concen: 0.104 ug/l

RT: 7.94 min Scan# 990

Delta R.T. 0.05 min

Lab File: VW007072.D

Acq: 27 Nov 2018 03:53

Instrument :

MSVOA_W

ClientSampleId :

RICH-REC-ROAD-STONE-7

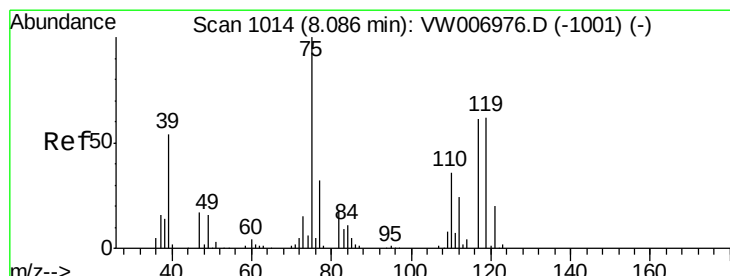
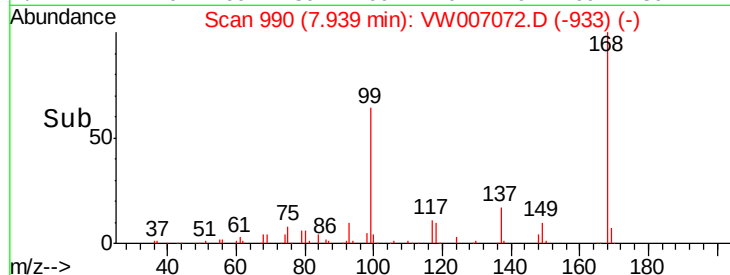
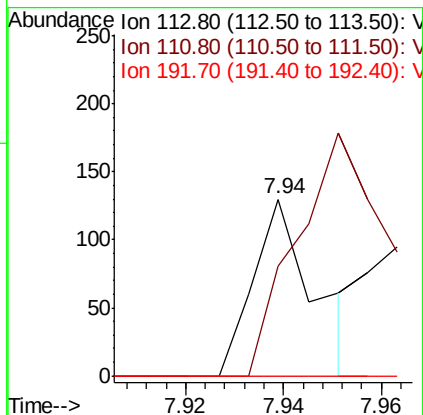
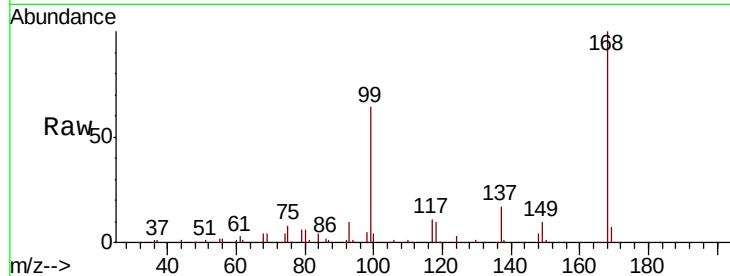
Tot Ion:113 Resp: 112

Ion Ratio Lower Upper

113 100

111 193.8 81.0 121.6#

192 0.0 15.0 22.6#



#36

1,1-Dichloropropene

Concen: 4.839 ug/l

RT: 7.95 min Scan# 992

Delta R.T. -0.13 min

Lab File: VW007072.D

Acq: 27 Nov 2018 03:53

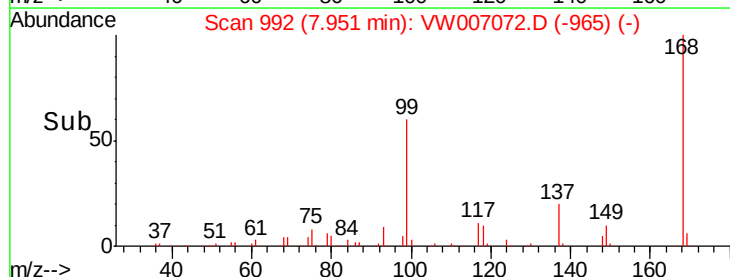
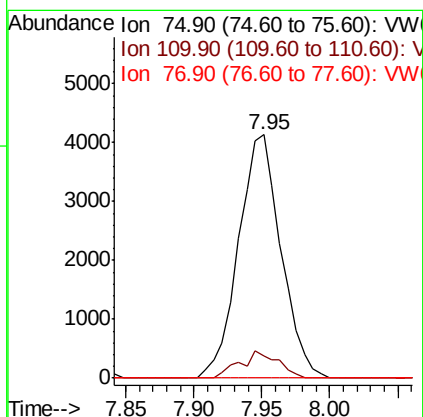
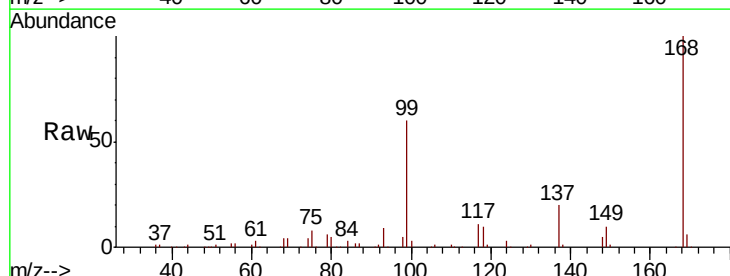
Tgt Ion: 75 Resp: 9012

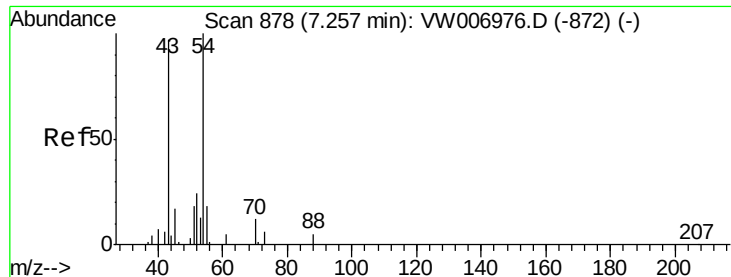
Ion Ratio Lower Upper

75 100

110 10.0 18.0 54.0#

77 0.0 24.9 37.3#





#37

Ethyl Acetate

Concen: 3.426 ug/l

RT: 7.14 min Scan# 859

Delta R.T. -0.12 min

Lab File: VW007072.D

Acq: 27 Nov 2018 03:53

Instrument :

MSVOA_W

ClientSampleId :

RICH-REC-ROAD-STONE-7

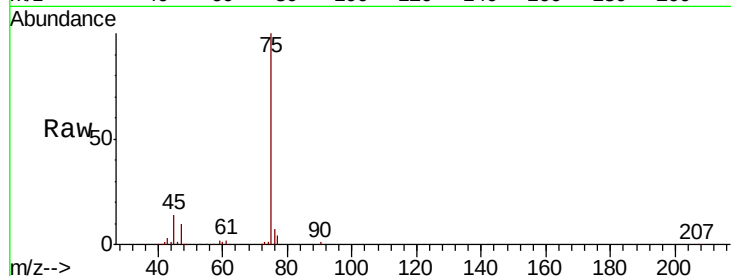
Tot Ion: 43 Resp: 2312

Ion Ratio Lower Upper

43 100

61 75.9 10.4 15.6#

70 0.0 8.8 13.2#

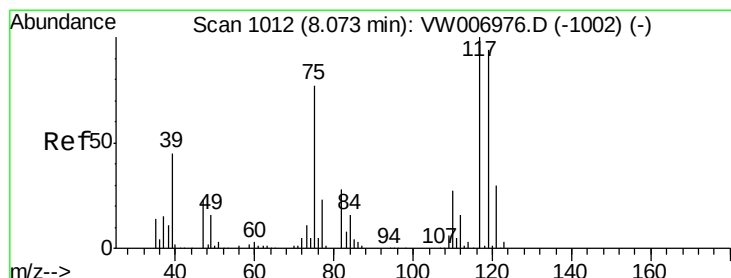
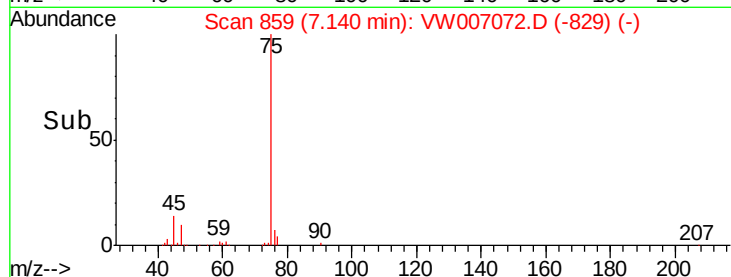
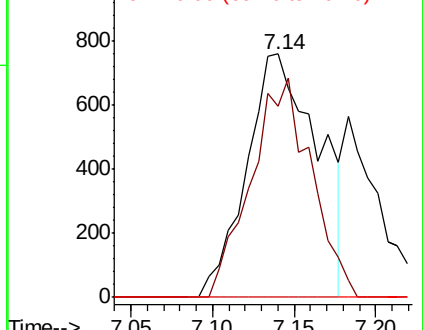


Abundance

Ion 43.00 (42.70 to 43.70): VW

Ion 60.90 (60.60 to 61.60): VW

Ion 70.00 (69.70 to 70.70): VW



#38

Carbon Tetrachloride

Concen: 6.675 ug/l

RT: 7.95 min Scan# 992

Delta R.T. -0.12 min

Lab File: VW007072.D

Acq: 27 Nov 2018 03:53

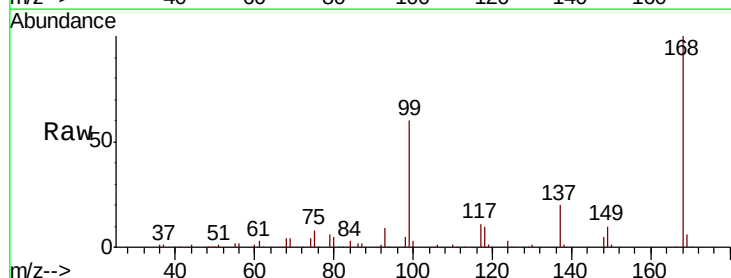
Tgt Ion: 117 Resp: 11904

Ion Ratio Lower Upper

117 100

119 5.1 74.9 112.3#

121 0.0 23.6 35.4#

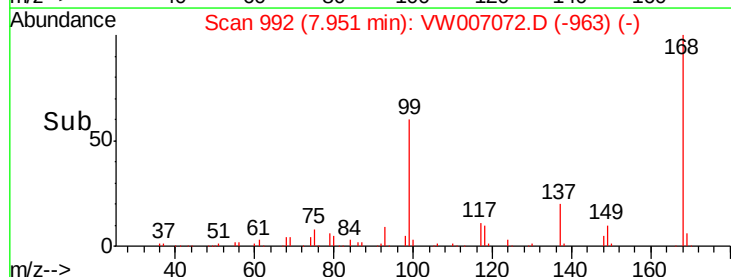
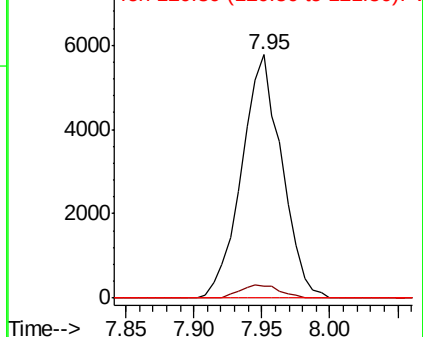


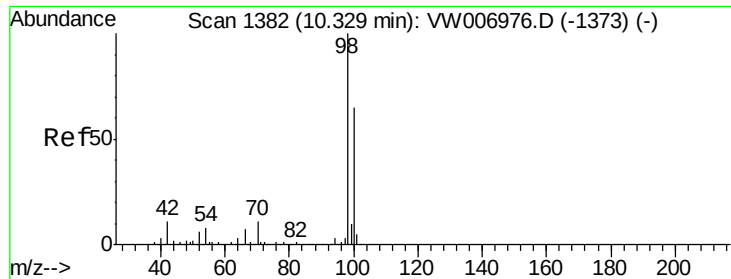
Abundance

Ion 116.80 (116.50 to 117.50): V

Ion 118.80 (118.50 to 119.50): V

Ion 120.80 (120.50 to 121.50): V





#50

Toluene-d8

Concen: 44.475 ug/l

RT: 10.32 min Scan# 1381

Delta R.T. -0.01 min

Lab File: VW007072.D

Acq: 27 Nov 2018 03:53

Instrument :

MSVOA_W

ClientSampleId :

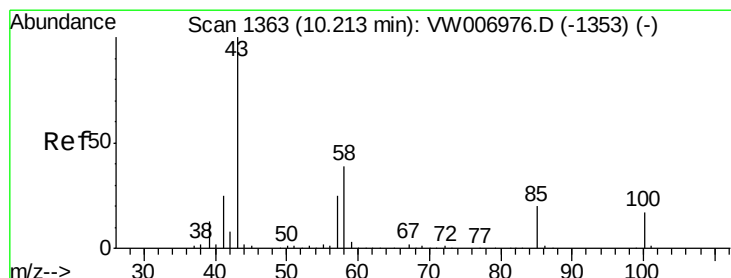
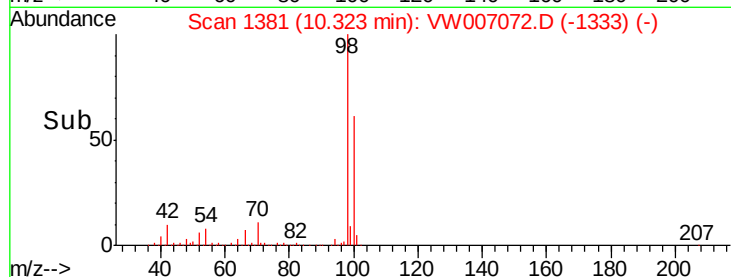
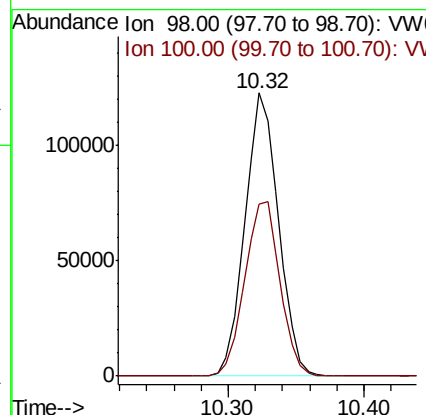
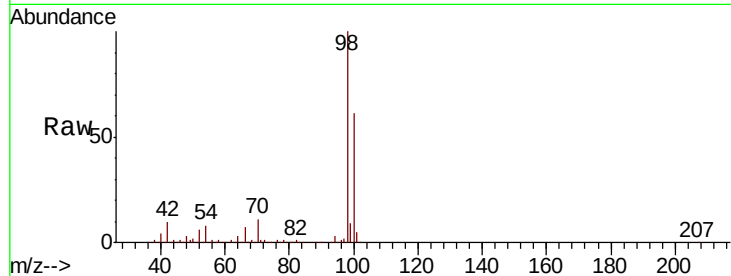
RICH-REC-ROAD-STONE-7

Tot Ion: 98 Resp: 211364

Ion Ratio Lower Upper

98 100

100 64.8 52.2 78.2



#51

4-Methyl-2-Pentanone

Concen: 1.682 ug/l

RT: 10.33 min Scan# 1382

Delta R.T. 0.12 min

Lab File: VW007072.D

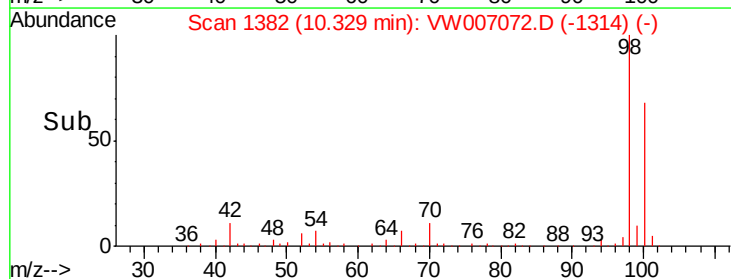
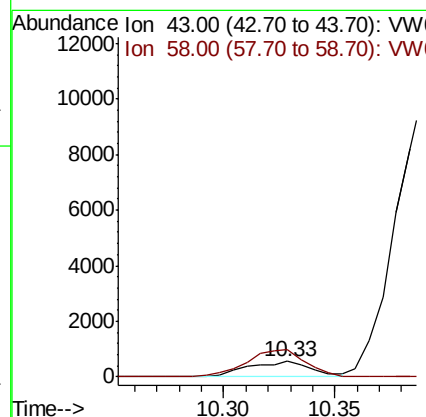
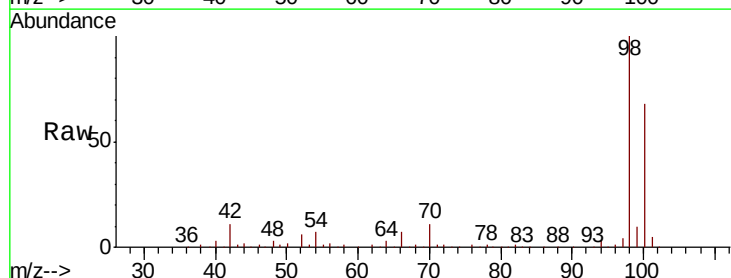
Acq: 27 Nov 2018 03:53

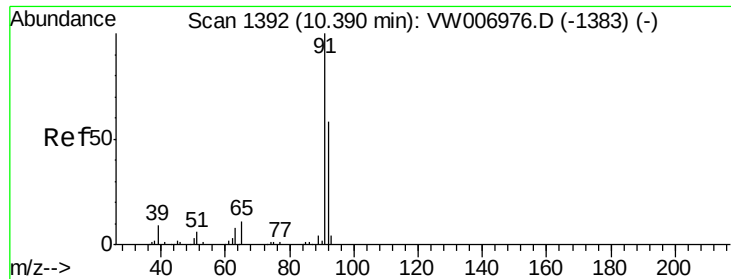
Tgt Ion: 43 Resp: 1093

Ion Ratio Lower Upper

43 100

58 163.7 31.8 47.6#





#52

Toluene

Concen: 394.347 ug/l

RT: 10.39 min Scan# 1392

Delta R.T. -0.00 min

Lab File: VW007072.D

Acq: 27 Nov 2018 03:53

Instrument :

MSVOA_W

ClientSampleId :

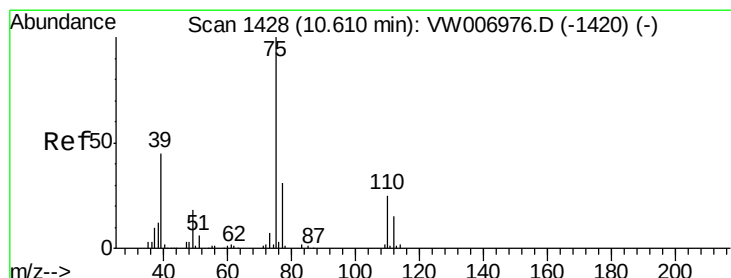
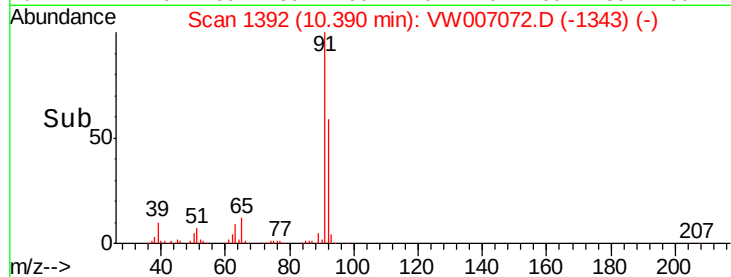
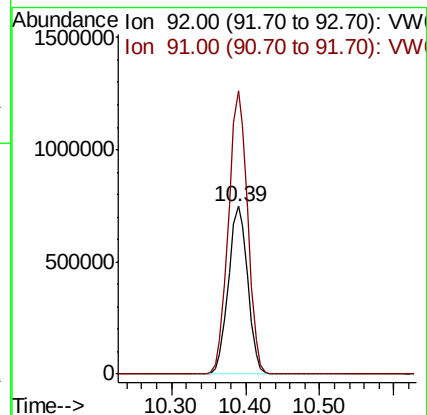
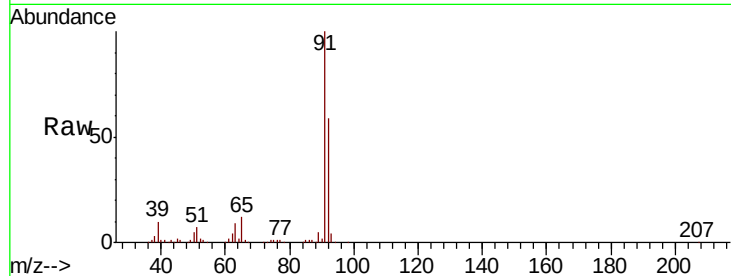
RICH-REC-ROAD-STONE-7

Tot Ion: 92 Resp: 1349097

Ion Ratio Lower Upper

92 100

91 168.1 137.3 205.9



#53

t-1,3-Dichloropropene

Concen: 10.202 ug/l

RT: 10.39 min Scan# 1392

Delta R.T. -0.22 min

Lab File: VW007072.D

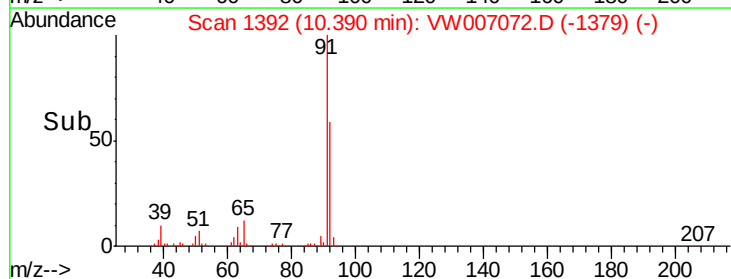
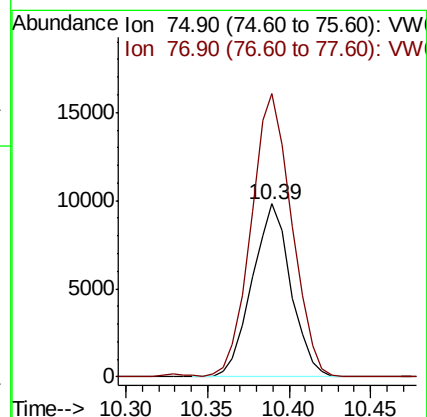
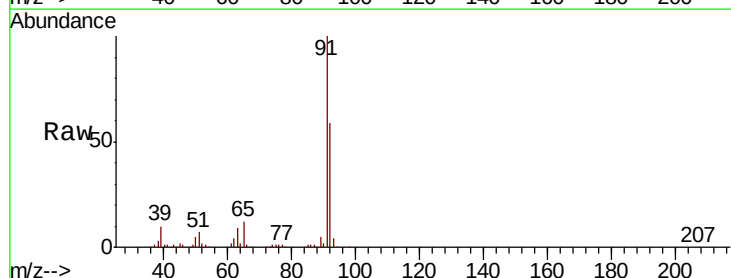
Acq: 27 Nov 2018 03:53

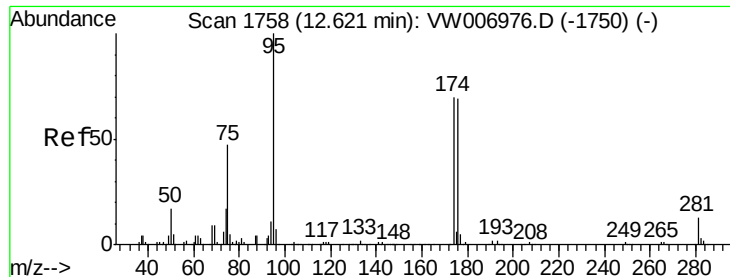
Tgt Ion: 75 Resp: 16158

Ion Ratio Lower Upper

75 100

77 163.6 24.7 37.1#





#62

4-Bromofluorobenzene

Concen: 38.699 ug/l

RT: 12.62 min Scan# 1758

Delta R.T. -0.00 min

Lab File: VW007072.D

Acq: 27 Nov 2018 03:53

Instrument :

MSVOA_W

ClientSampleId :

RICH-REC-ROAD-STONE-7

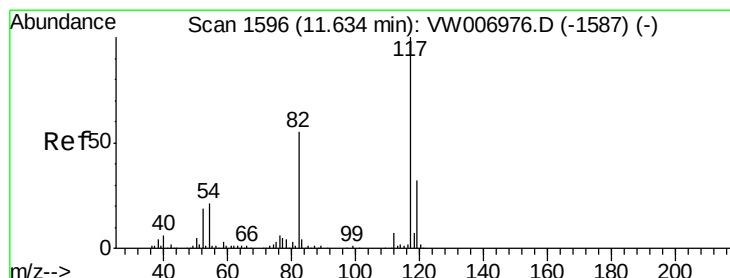
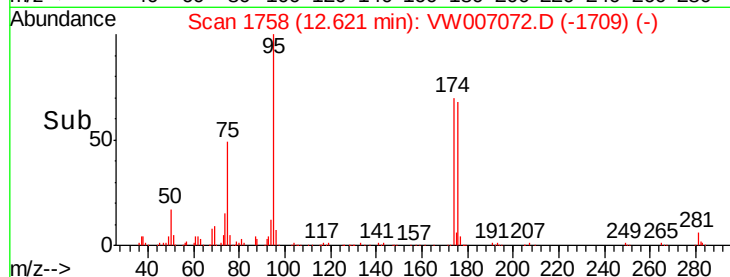
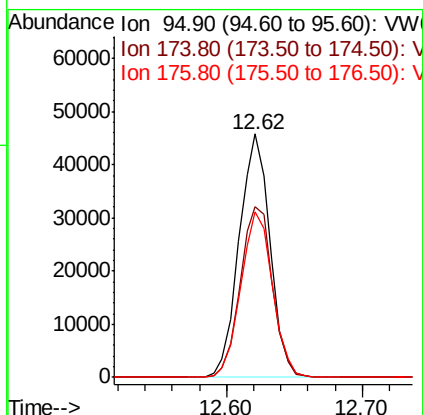
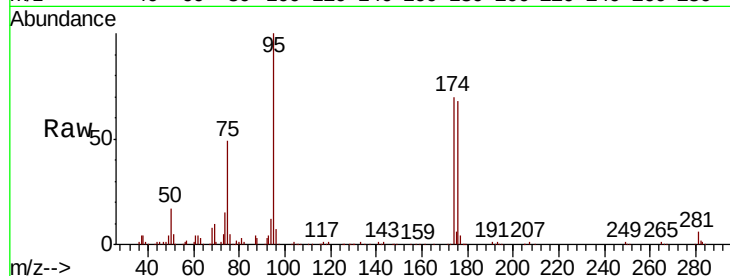
Tot Ion: 95 Resp: 72373

Ion Ratio Lower Upper

95 100

174 73.2 0.0 143.6

176 69.7 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: VW007072.D

Acq: 27 Nov 2018 03:53

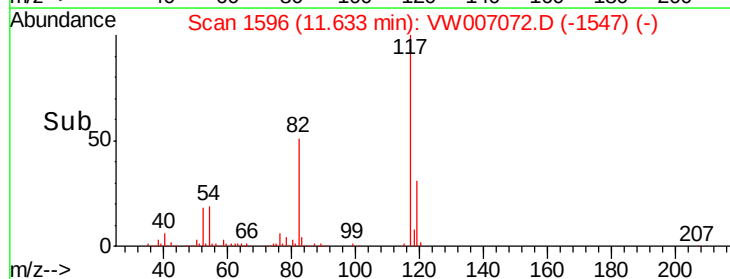
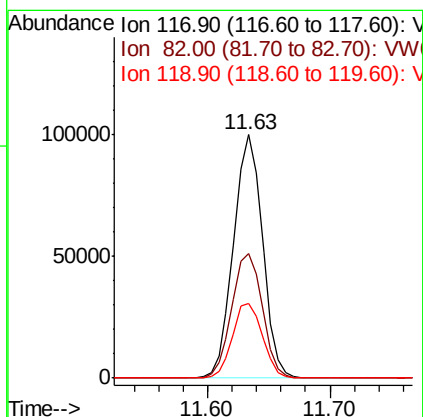
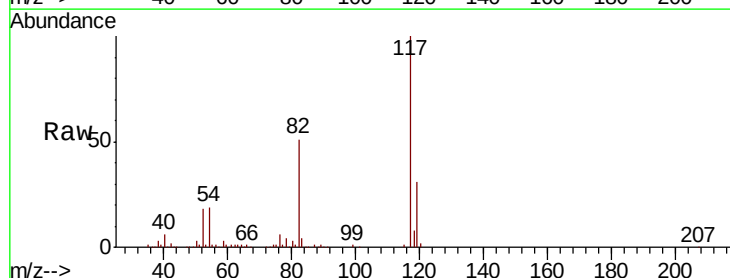
Tgt Ion: 117 Resp: 163783

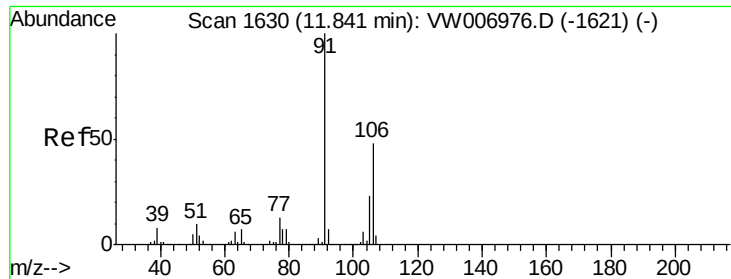
Ion Ratio Lower Upper

117 100

82 51.3 44.2 66.2

119 30.8 25.9 38.9

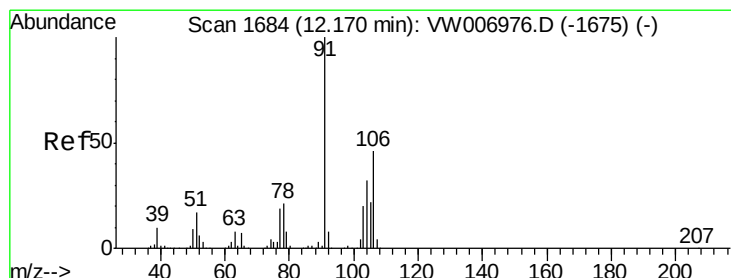
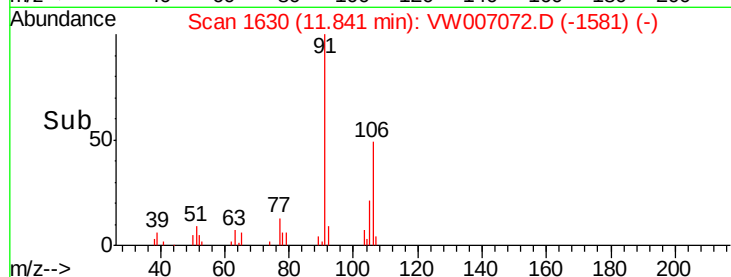
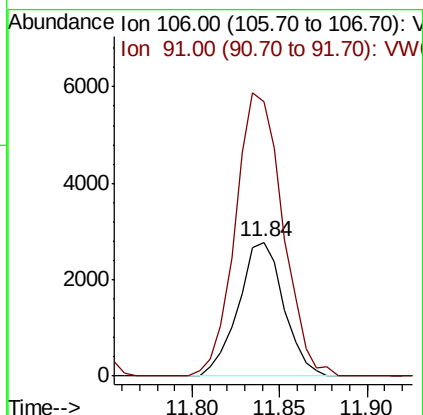
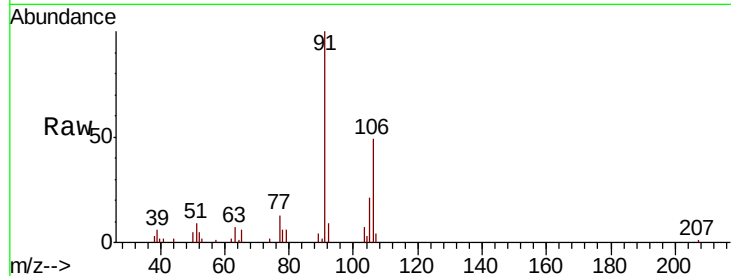




#68
m/p-Xylenes
Concen: 2.033 ug/l
RT: 11.84 min Scan# 1630
Delta R.T. -0.00 min
Lab File: VW007072.D
Acq: 27 Nov 2018 03:53

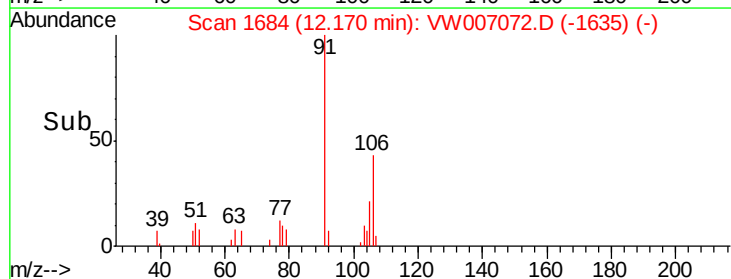
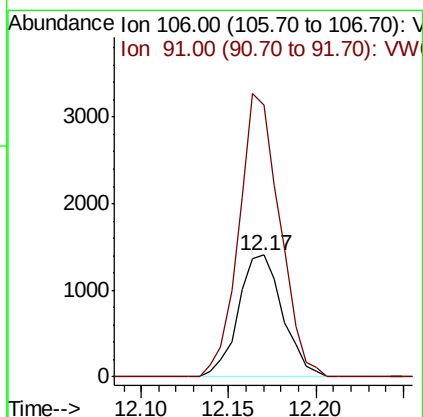
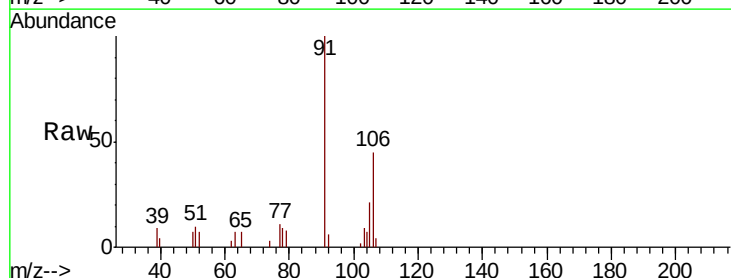
Instrument :
MSVOA_W
ClientSampleId :
RICH-REC-ROAD-STONE-7

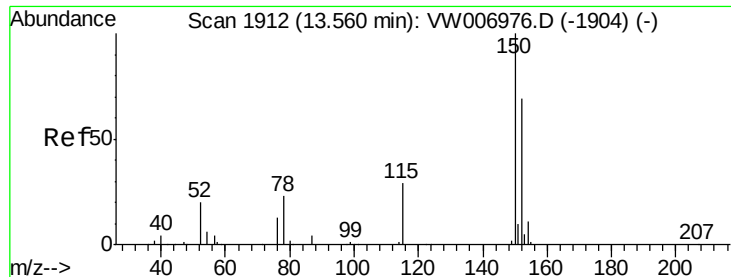
Tot Ion:106 Resp: 5009
Ion Ratio Lower Upper
106 100
91 221.2 164.8 247.2



#69
o-Xylene
Concen: 1.069 ug/l
RT: 12.17 min Scan# 1684
Delta R.T. -0.00 min
Lab File: VW007072.D
Acq: 27 Nov 2018 03:53

Tgt Ion:106 Resp: 2484
Ion Ratio Lower Upper
106 100
91 213.7 107.9 323.8





#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

RT: 13.56 min Scan# 1912

Delta R.T. -0.00 min

Lab File: VW007072.D

Acq: 27 Nov 2018 03:53

Instrument :

MSVOA_W

ClientSampleId :

RICH-REC-ROAD-STONE-7

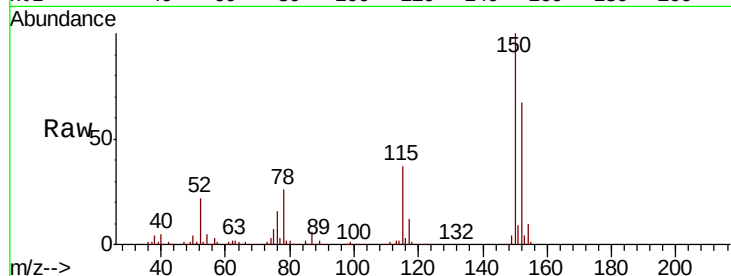
Tot Ion:152 Resp: 62212

Ion Ratio Lower Upper

152 100

115 60.0 31.4 94.2

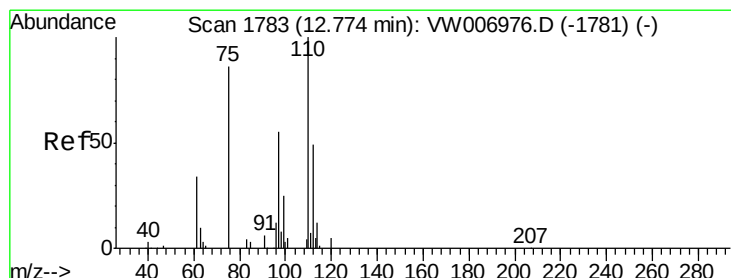
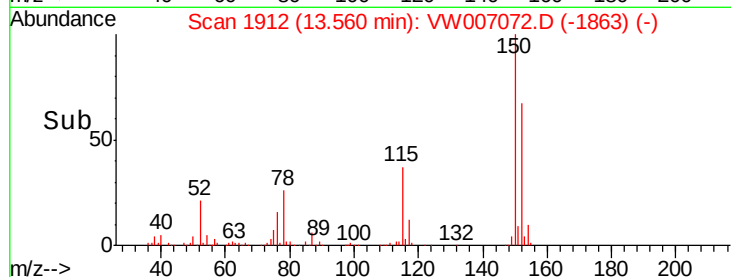
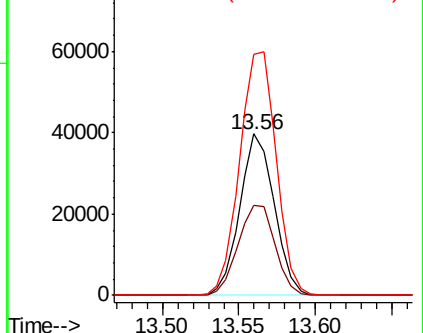
150 160.0 0.0 353.4



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



#76

1,2,3-Trichloropropane

Concen: 71.684 ug/l

RT: 12.62 min Scan# 1758

Delta R.T. -0.15 min

Lab File: VW007072.D

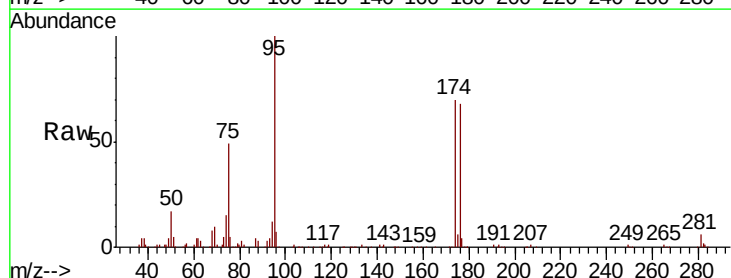
Acq: 27 Nov 2018 03:53

Tgt Ion: 75 Resp: 35043

Ion Ratio Lower Upper

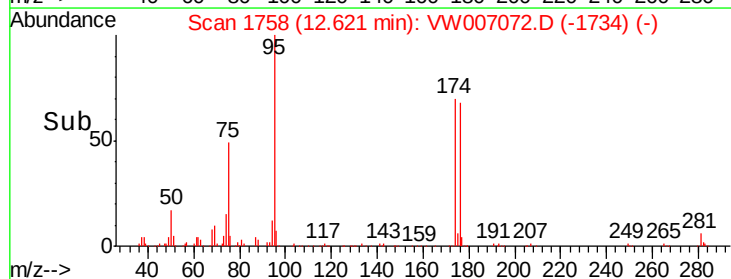
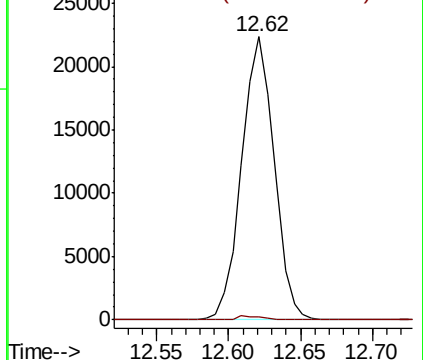
75 100

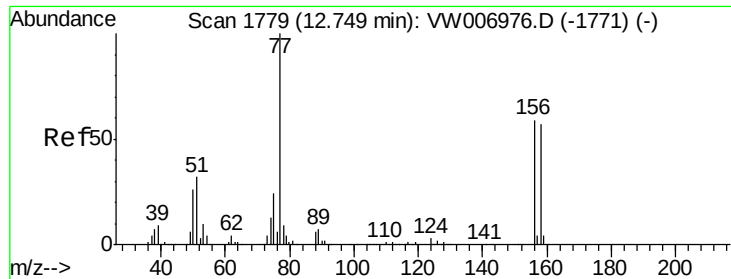
77 1.3 0.0 0.0#



Abundance Ion 74.90 (74.60 to 75.60): VW

Ion 77.00 (76.70 to 77.70): VW





#77

Bromobenzene

Concen: 1.602 ug/l

RT: 12.94 min Scan# 1810

Delta R.T. 0.19 min

Lab File: VW007072.D

Acq: 27 Nov 2018 03:53

Instrument :

MSVOA_W

ClientSampleId :

RICH-REC-ROAD-STONE-7

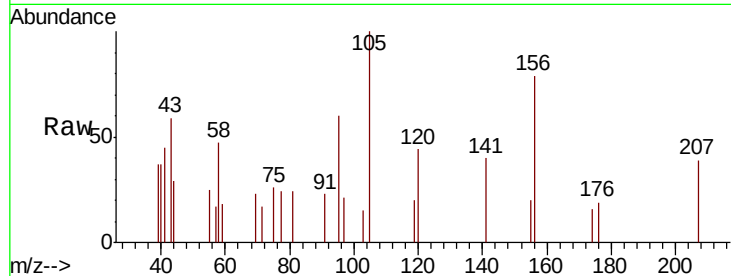
Tot Ion:156 Resp: 1664

Ion Ratio Lower Upper

156 100

77 11.3 94.6 283.8#

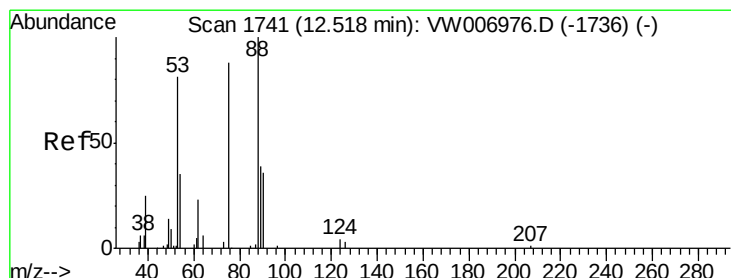
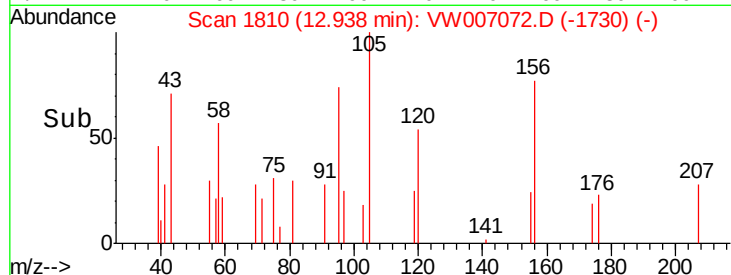
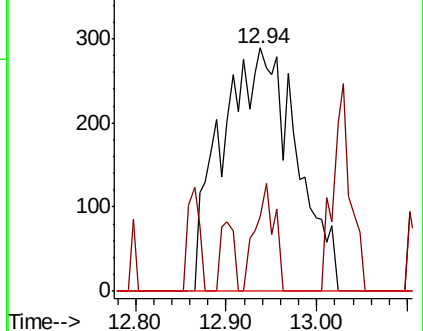
158 0.0 48.9 146.7#



Abundance Ion 155.80 (155.50 to 156.50): V

Ion 77.00 (76.70 to 77.70): VW

Ion 157.80 (157.50 to 158.50): V



#81

trans-1,4-Dichloro-2-butene

Concen: 179.968 ug/l

RT: 12.62 min Scan# 1758

Delta R.T. 0.10 min

Lab File: VW007072.D

Acq: 27 Nov 2018 03:53

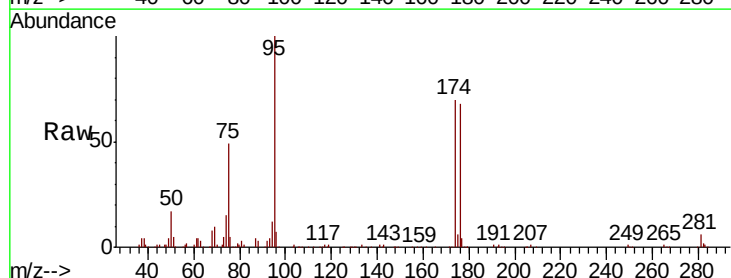
Tgt Ion: 75 Resp: 35043

Ion Ratio Lower Upper

75 100

53 0.0 77.6 116.4#

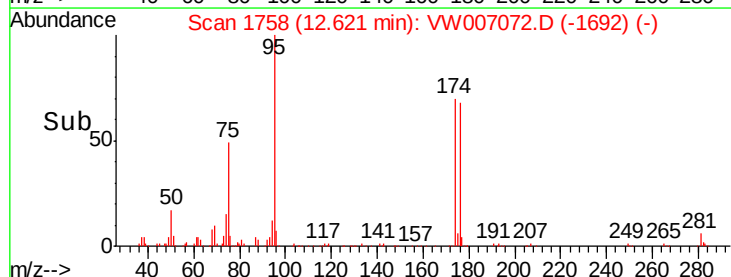
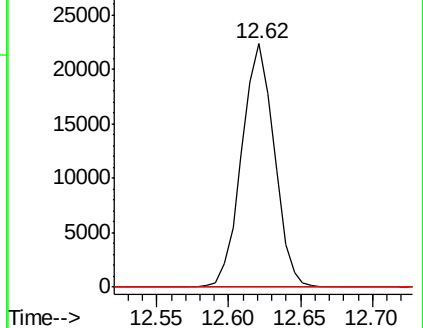
89 0.1 39.3 58.9#

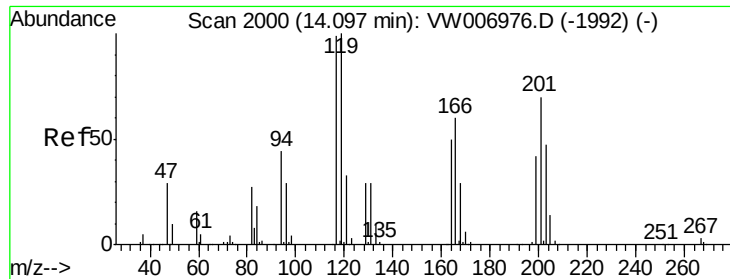


Abundance Ion 74.90 (74.60 to 75.60): VW

Ion 53.00 (52.70 to 53.70): VW

Ion 88.90 (88.60 to 89.60): VW

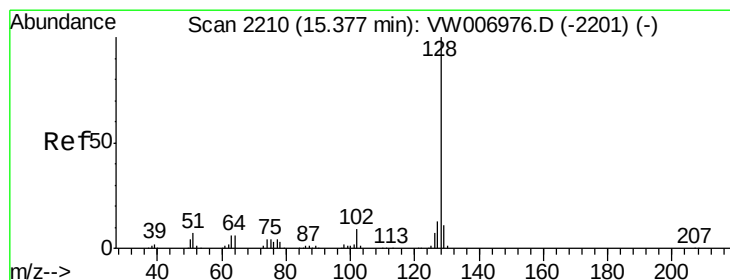
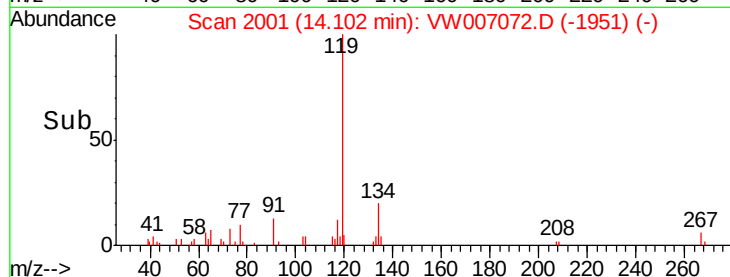
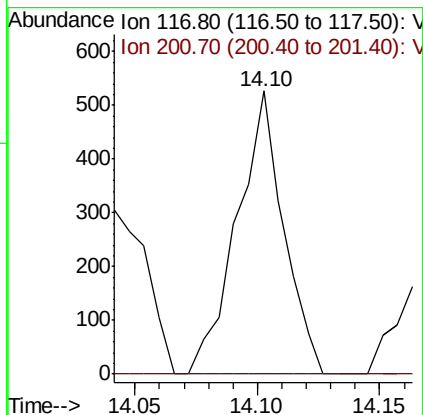
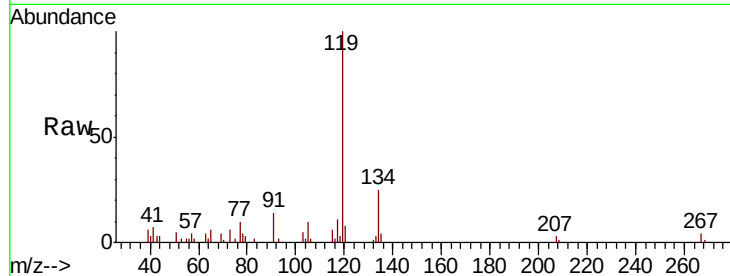




#90
Hexachloroethane
Concen: 1.061 ug/l
RT: 14.10 min Scan# 2001
Delta R.T. 0.01 min
Lab File: VW007072.D
Acq: 27 Nov 2018 03:53

Instrument :
MSVOA_W
ClientSampleId :
RICH-REC-ROAD-STONE-7

Tot Ion:117 Resp: 699
Ion Ratio Lower Upper
117 100
201 0.0 35.9 107.5#



#95
Naphthalene
Concen: 1.288 ug/l
RT: 15.37 min Scan# 2209
Delta R.T. -0.01 min
Lab File: VW007072.D
Acq: 27 Nov 2018 03:53

Tgt Ion:128 Resp: 2863
Ion Ratio Lower Upper
128 100
127 13.1 10.5 15.7
129 14.0 8.7 13.1#

