

Data Path : Z:\VOASRV\HPCHEM1\MSVOA W\DATA\VW100219\
 Data File : VW013379.D
 Acq On : 02 Oct 2019 15:38
 Operator : SY/VA
 Sample : K5083-04RE
 Misc : 5.00G/5ML/MSVOA W/SOIL
 ALS Vial : 6 Sample Multiplier: 1

Instrument :
 MSVOA_W
 ClientSampleId :
 20190705-RR-COMPOSITE-5RE

Quant Time: Oct 02 16:10:34 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_W\METHOD\82W100119S.M
 Quant Title : SW846 8260
 QLast Update : Wed Oct 02 11:49:57 2019
 Response via : Initial Calibration

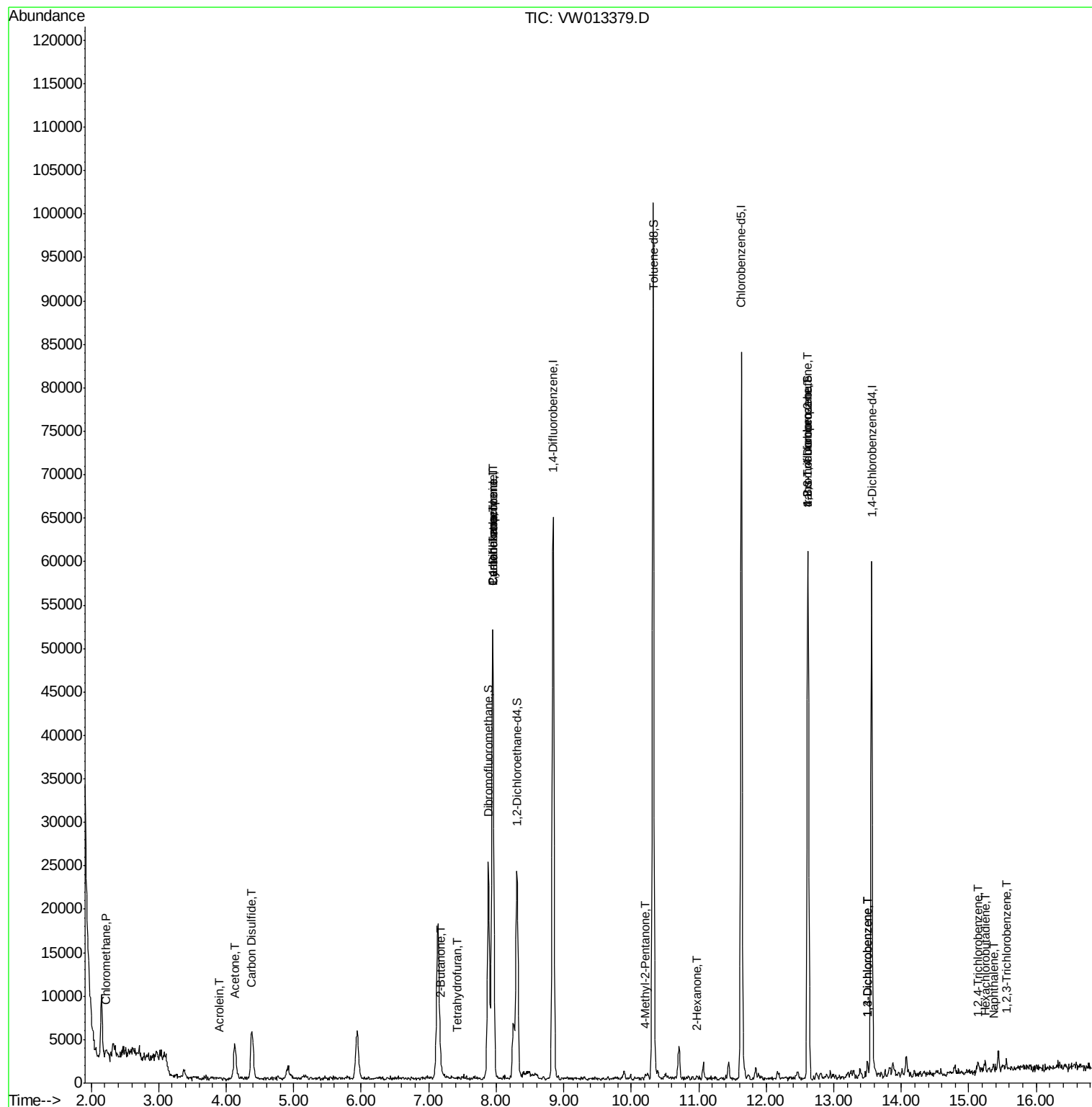
Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	7.95	168	43035	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	8.84	114	59791	50.00	ug/l	0.00
63) Chlorobenzene-d5	11.63	117	49521	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.56	152	17353	50.00	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	8.31	65	17806	55.41	ug/l	0.00
Spiked Amount 50.000			Recovery	=	110.82%	
35) Dibromofluoromethane	7.88	113	17409	55.49	ug/l	0.00
Spiked Amount 50.000			Recovery	=	110.98%	
50) Toluene-d8	10.32	98	69384	53.29	ug/l	0.00
Spiked Amount 50.000			Recovery	=	106.58%	
62) 4-Bromofluorobenzene	12.62	95	18916	43.51	ug/l	0.00
Spiked Amount 50.000			Recovery	=	87.02%	
Target Compounds				Qvalue		
3) Chloromethane	2.21	50	343	1.249	ug/l #	42
11) Tert butyl alcohol	5.13	59	477	Below Cal	#	73
13) Acrolein	3.90	56	108	13.761	ug/l #	54
16) Acetone	4.12	43	7405	75.182	ug/l	97
17) Carbon Disulfide	4.37	76	10343	9.359	ug/l #	93
25) 2-Butanone	7.18	43	896	7.109	ug/l #	51
26) 2,2-Dichloropropane	7.14	77	604	Below Cal	#	52
29) Tetrahydrofuran	7.42	42	20	9.956	ug/l #	34
31) Cyclohexane	7.96	56	1051	1.430	ug/l #	47
36) 1,1-Dichloropropene	7.95	75	2946	5.305	ug/l #	48
38) Carbon Tetrachloride	7.95	117	3930	8.169	ug/l #	17
51) 4-Methyl-2-Pentanone	10.21	43	609	2.513	ug/l #	68
59) 2-Hexanone	10.97	43	212	1.262	ug/l	97
76) 1,2,3-Trichloropropane	12.62	75	9151	59.334	ug/l #	100
81) trans-1,4-Dichloro-2-buten	12.62	75	9151	119.775	ug/l #	12
87) 1,3-Dichlorobenzene	13.49	146	603	1.052	ug/l	78
88) 1,4-Dichlorobenzene	13.49	146	603	1.050	ug/l	78
93) 1,2,4-Trichlorobenzene	15.13	180	489	1.344	ug/l #	74
94) Hexachlorobutadiene	15.24	225	355	1.502	ug/l	76
95) Naphthalene	15.36	128	686	1.118	ug/l #	86
96) 1,2,3-Trichlorobenzene	15.56	180	505	1.590	ug/l	82

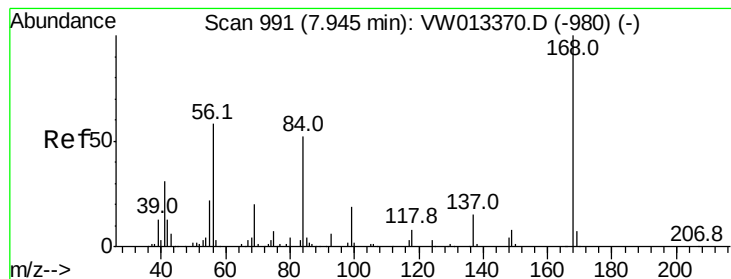
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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Quant Title : SW846 8260
QLast Update : Wed Oct 02 11:49:57 2019
Response via : Initial Calibration





#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 7.95 min Scan# 992

Delta R.T. 0.01 min

Lab File: VW013379.D

Acq: 02 Oct 2019 15:38

Instrument :

MSVOA_W

ClientSampleId :

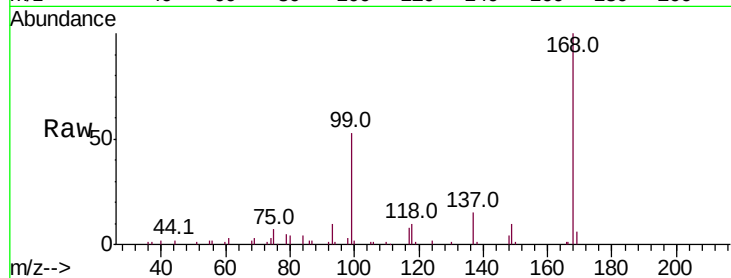
20190705-RR-COMPOSITE-5RE

Tot Ion:168 Resp: 43035

Ion Ratio Lower Upper

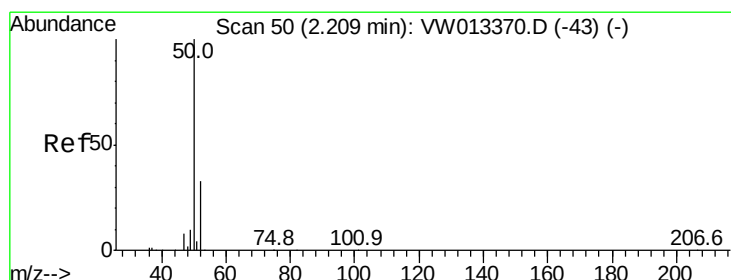
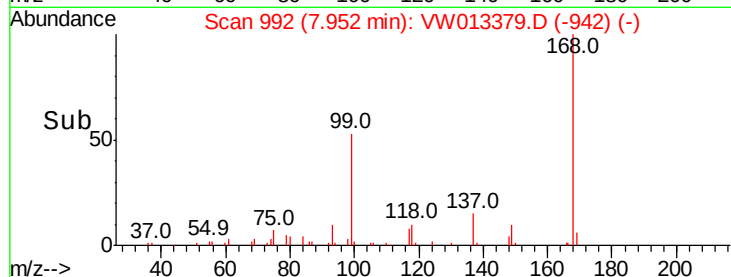
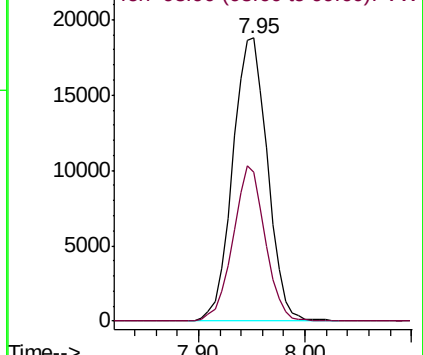
168 100

99 52.8 40.2 60.4



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VW



#3

Chloromethane

Concen: 1.249 ug/l

RT: 2.21 min Scan# 51

Delta R.T. 0.01 min

Lab File: VW013379.D

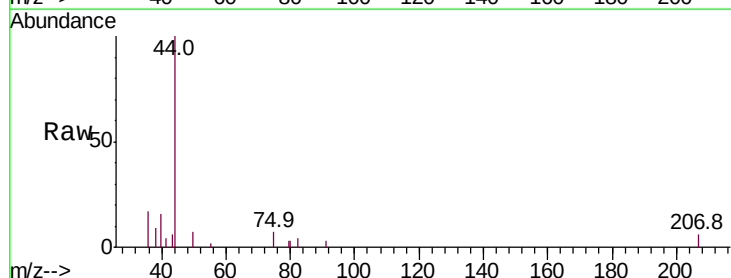
Acq: 02 Oct 2019 15:38

Tgt Ion: 50 Resp: 343

Ion Ratio Lower Upper

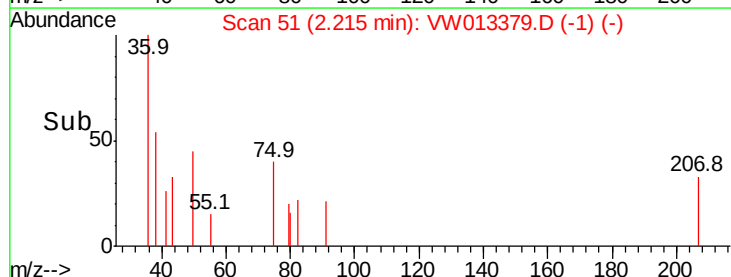
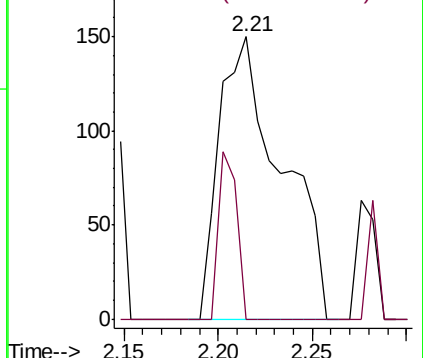
50 100

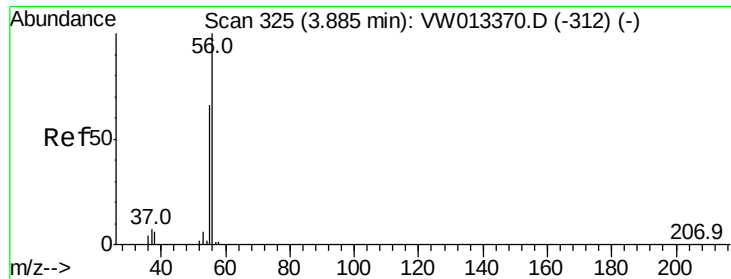
52 0.0 26.1 39.1#



Abundance Ion 49.90 (49.60 to 50.60): VW

Ion 51.90 (51.60 to 52.60): VW





#13

Acrolein

Concen: 13.761 ug/l

RT: 3.90 min Scan# 327

Delta R.T. 0.01 min

Lab File: VW013379.D

Acq: 02 Oct 2019 15:38

Instrument :

MSVOA_W

ClientSampleId :

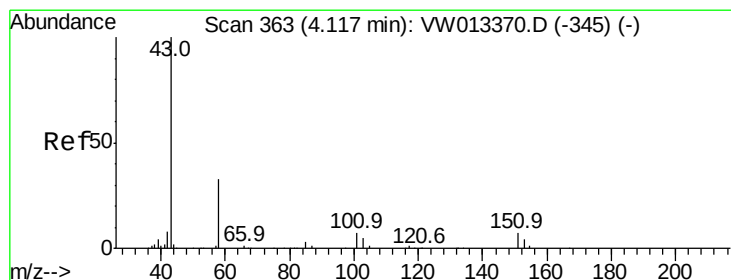
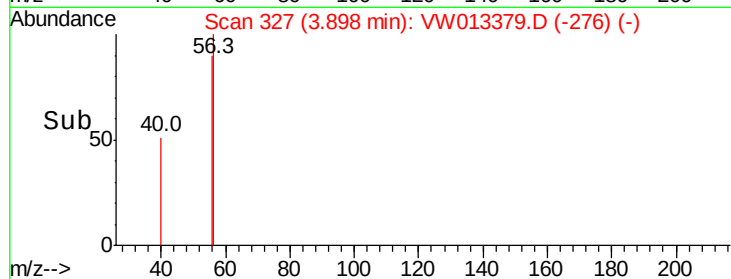
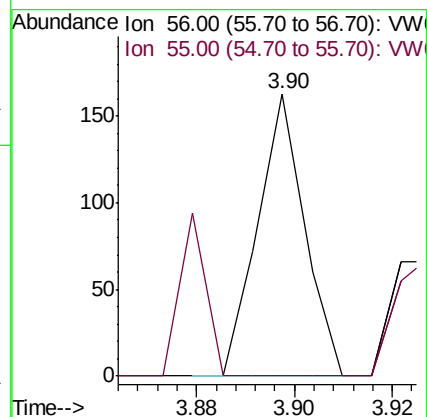
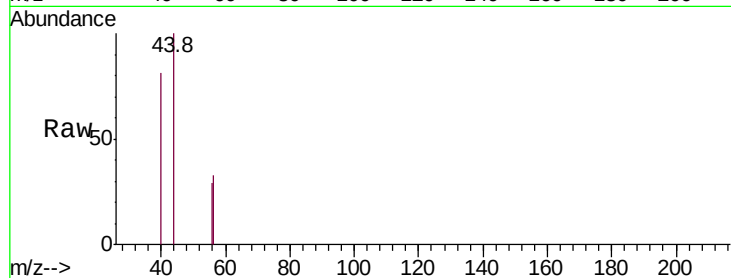
20190705-RR-COMPOSITE-5RE

Tot Ion: 56 Resp: 108

Ion Ratio Lower Upper

56 100

55 31.5 55.4 83.0#



#16

Acetone

Concen: 75.182 ug/l

RT: 4.12 min Scan# 364

Delta R.T. 0.01 min

Lab File: VW013379.D

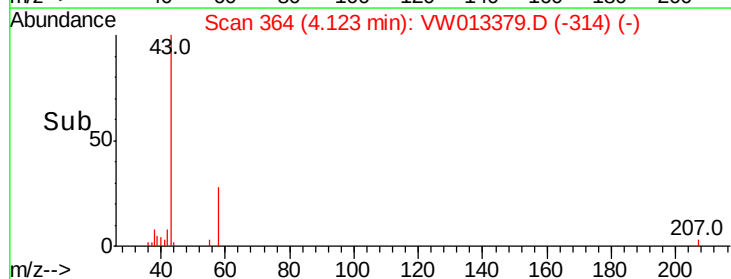
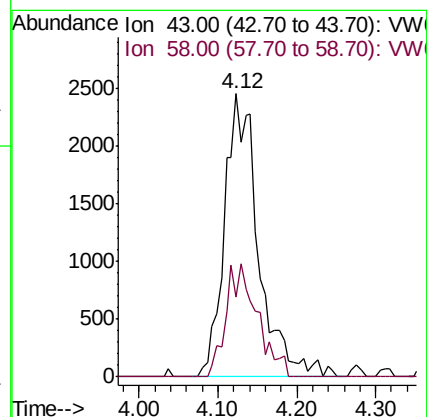
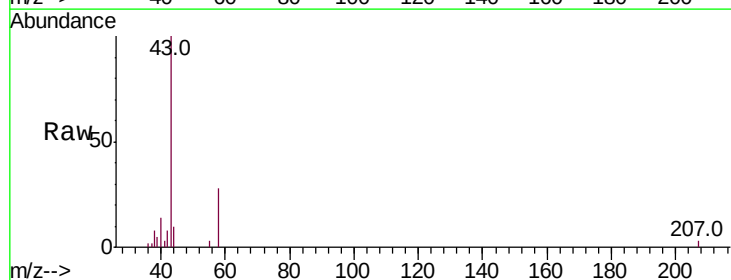
Acq: 02 Oct 2019 15:38

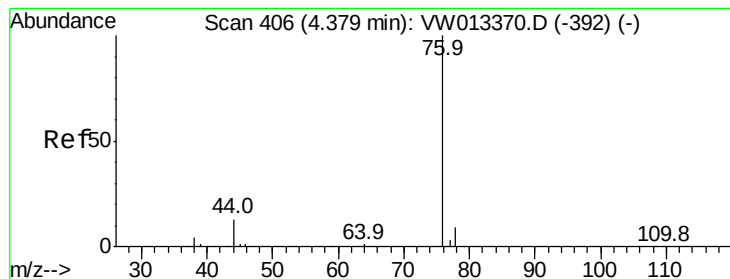
Tgt Ion: 43 Resp: 7405

Ion Ratio Lower Upper

43 100

58 28.2 24.1 36.1





#17

Carbon Disulfide

Concen: 9.359 ug/l

RT: 4.37 min Scan# 405

Delta R.T. -0.01 min

Lab File: VW013379.D

Acq: 02 Oct 2019 15:38

Instrument :

MSVOA_W

ClientSampleId :

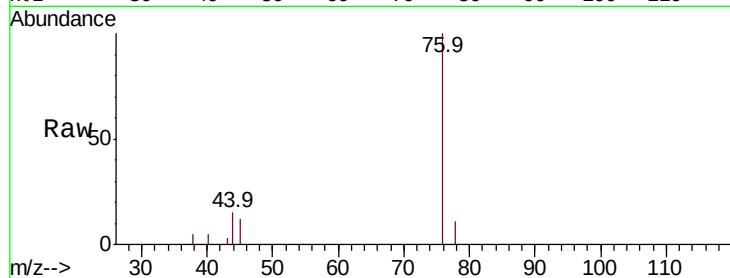
20190705-RR-COMPOSITE-5RE

Tot Ion: 76 Resp: 10343

Ion Ratio Lower Upper

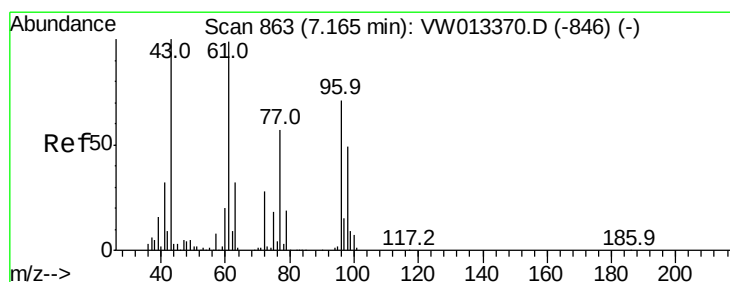
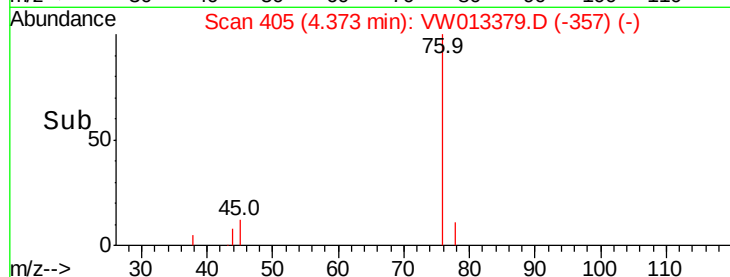
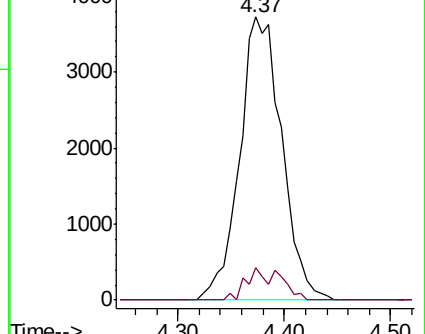
76 100

78 11.3 7.0 10.4#



Abundance Ion 75.90 (75.60 to 76.60): VW

Ion 77.90 (77.60 to 78.60): VW



#25

2-Butanone

Concen: 7.109 ug/l

RT: 7.18 min Scan# 865

Delta R.T. 0.01 min

Lab File: VW013379.D

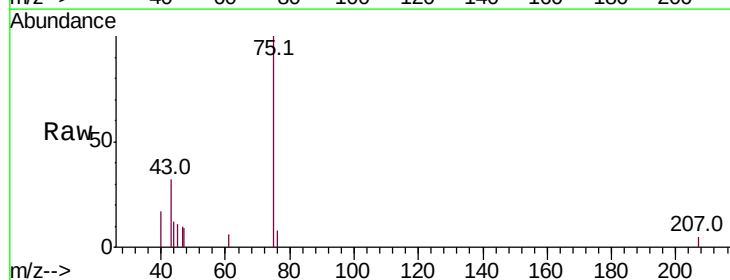
Acq: 02 Oct 2019 15:38

Tgt Ion: 43 Resp: 896

Ion Ratio Lower Upper

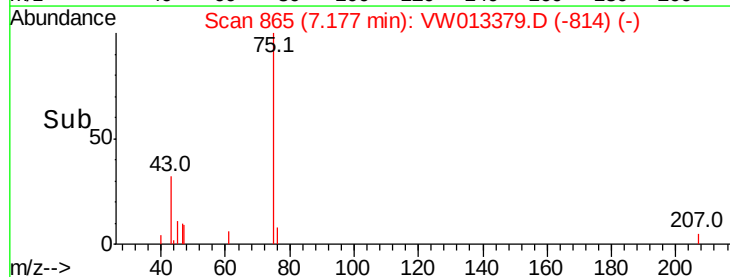
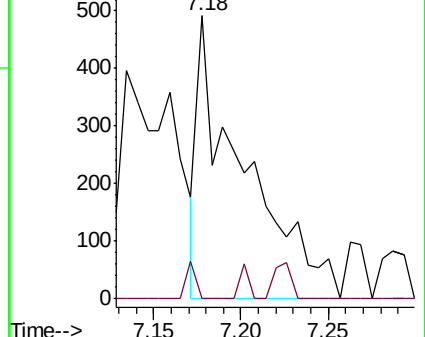
43 100

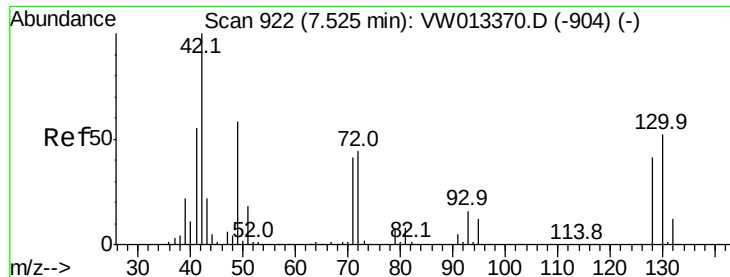
72 0.0 19.4 29.0#



Abundance Ion 43.00 (42.70 to 43.70): VW

Ion 72.00 (71.70 to 72.70): VW





#29

Tetrahydrofuran

Concen: 9.956 ug/l

RT: 7.42 min Scan# 905

Delta R.T. -0.10 min

Lab File: VW013379.D

Acq: 02 Oct 2019 15:38

Instrument :

MSVOA_W

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20190705-RR-COMPOSITE-5RE

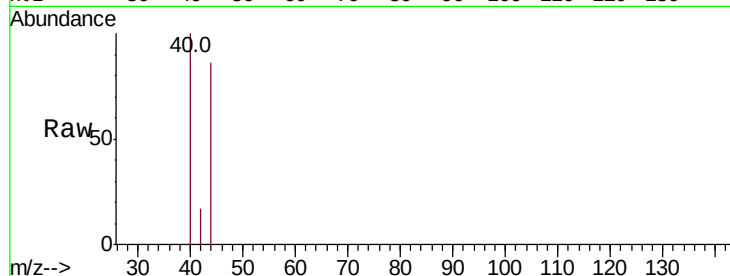
Tot Ion: 42 Resp: 20

Ion Ratio Lower Upper

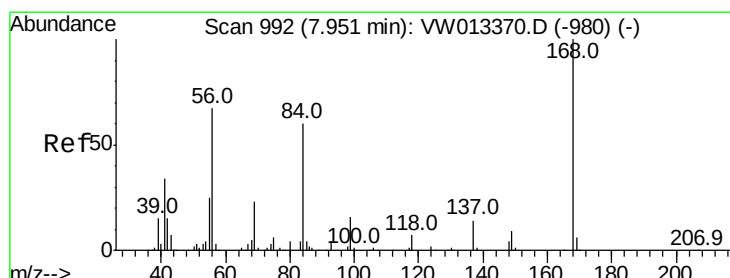
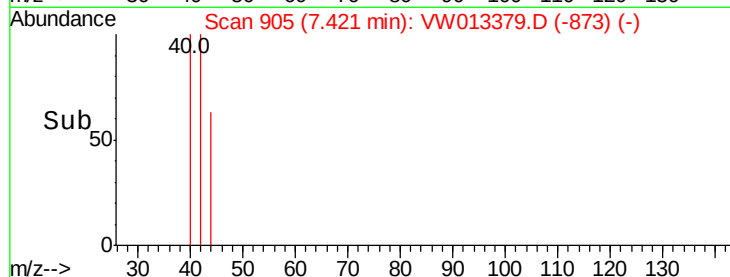
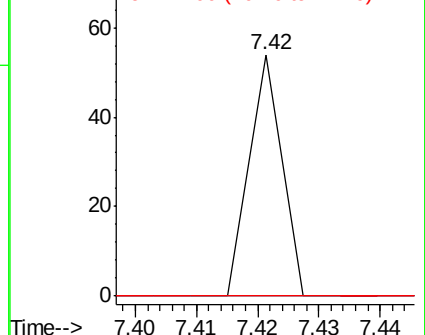
42 100

72 0.0 33.9 50.9#

71 0.0 31.9 47.9#



Abundance Ion 42.00 (41.70 to 42.70): VW
Ion 72.00 (71.70 to 72.70): VW
Ion 71.00 (70.70 to 71.70): VW



#31

Cyclohexane

Concen: 1.430 ug/l

RT: 7.96 min Scan# 993

Delta R.T. 0.01 min

Lab File: VW013379.D

Acq: 02 Oct 2019 15:38

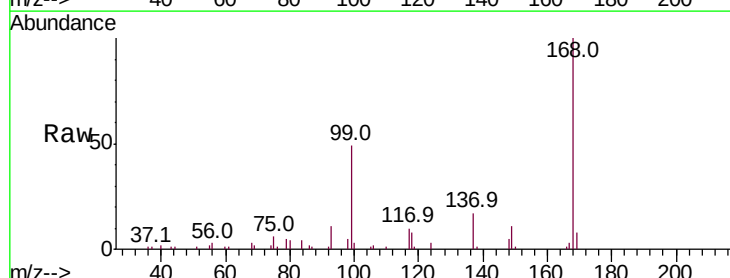
Tgt Ion: 56 Resp: 1051

Ion Ratio Lower Upper

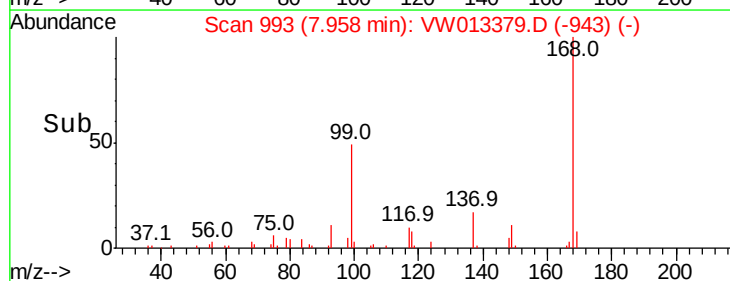
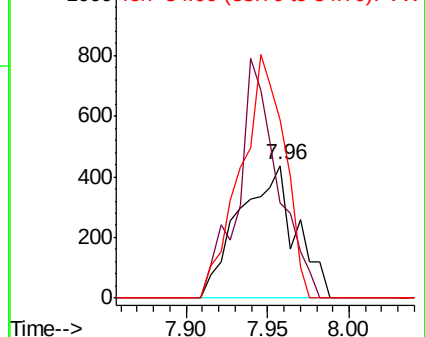
56 100

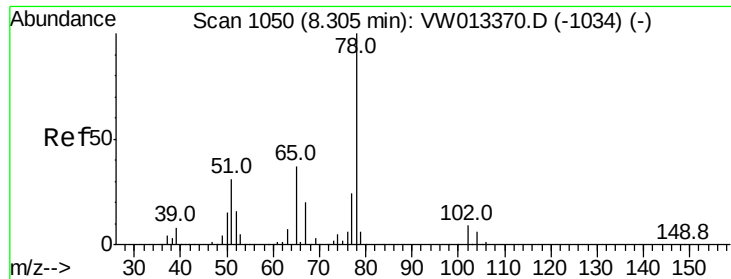
69 71.2 27.2 40.8#

84 134.2 70.8 106.2#



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

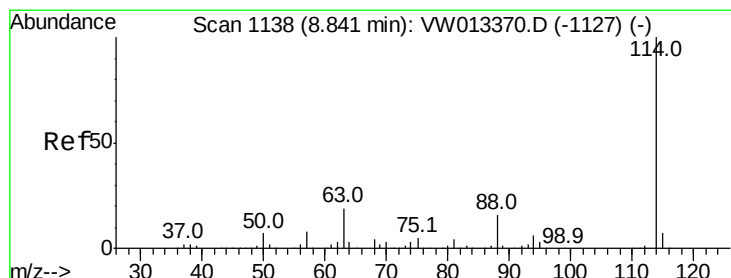
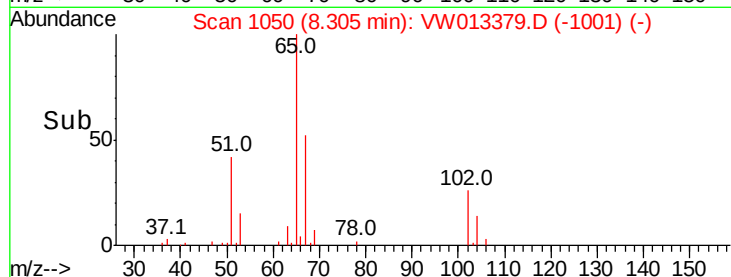
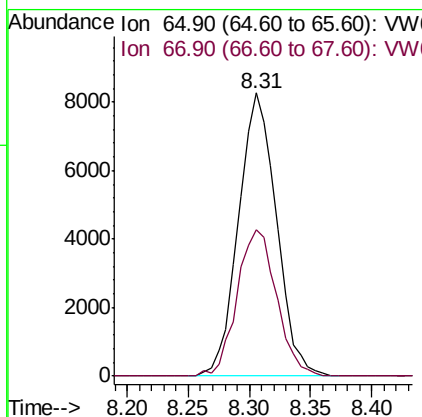
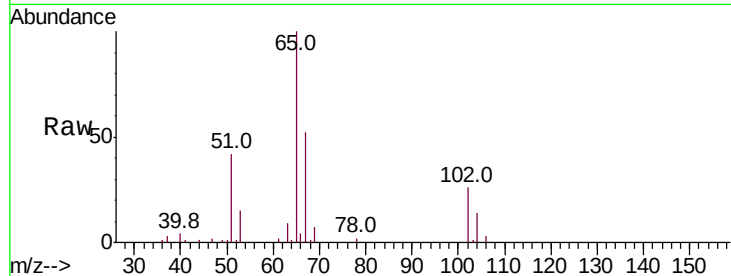




#33
 1,2-Dichloroethane-d4
 Concen: 55.413 ug/l
 RT: 8.31 min Scan# 1050
 Delta R.T. 0.00 min
 Lab File: VW013379.D
 Acq: 02 Oct 2019 15:38

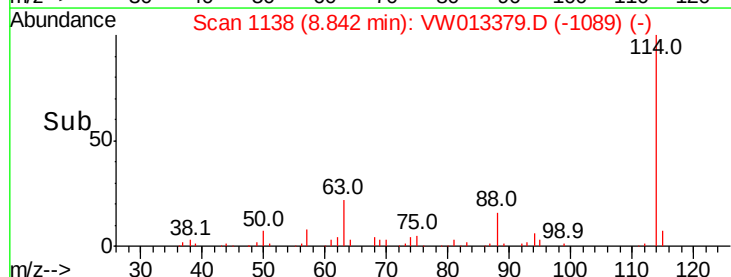
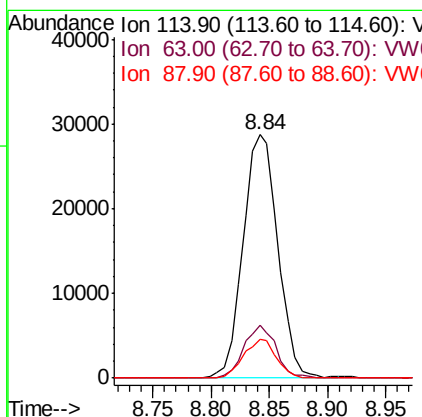
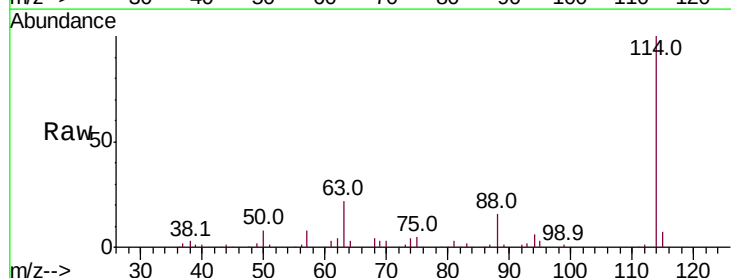
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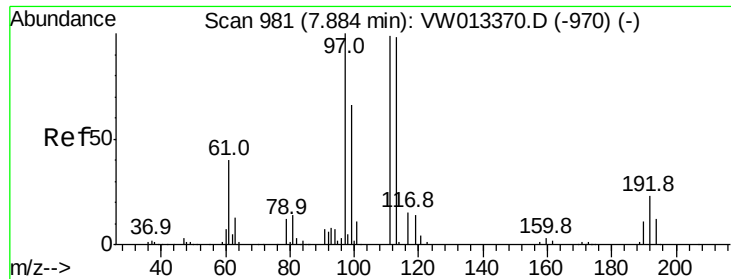
Tot Ion: 65 Resp: 17806
 Ion Ratio Lower Upper
 65 100
 67 53.6 0.0 106.2



#34
 1,4-Difluorobenzene
 Concen: 50.000 ug/l
 RT: 8.84 min Scan# 1138
 Delta R.T. 0.00 min
 Lab File: VW013379.D
 Acq: 02 Oct 2019 15:38

Tgt Ion: 114 Resp: 59791
 Ion Ratio Lower Upper
 114 100
 63 21.7 0.0 41.4
 88 16.1 0.0 32.0

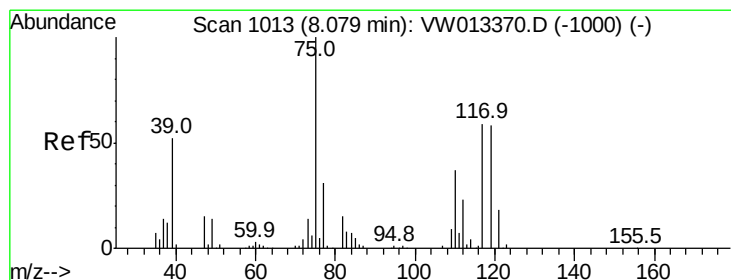
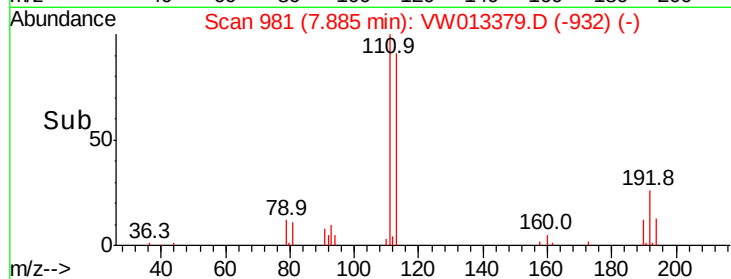
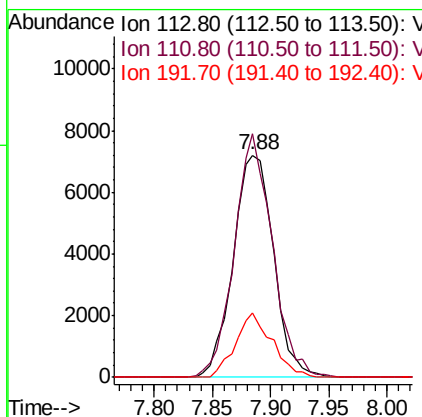
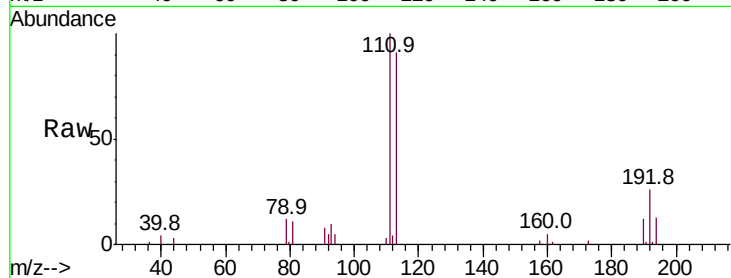




#35
 Dibromofluoromethane
 Concen: 55.489 ug/l
 RT: 7.88 min Scan# 981
 Delta R.T. 0.00 min
 Lab File: VW013379.D
 Acq: 02 Oct 2019 15:38

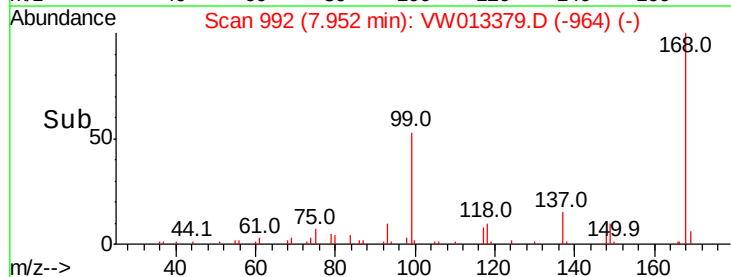
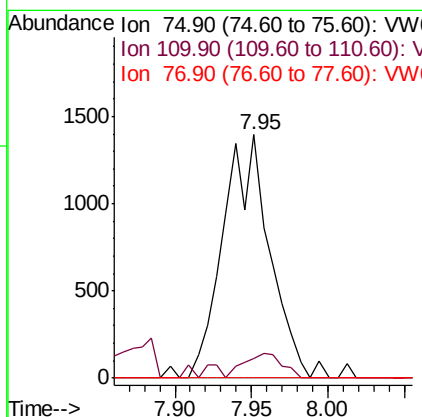
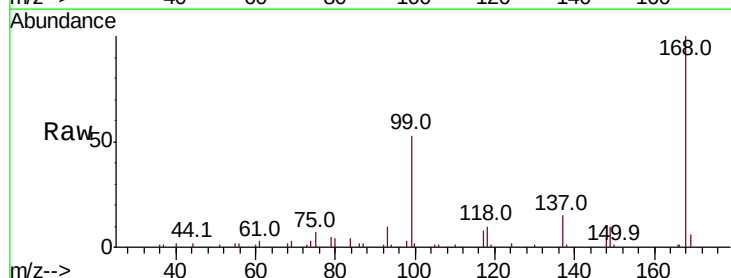
Instrument :
 MSVOA_W
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 20190705-RR-COMPOSITE-5RE

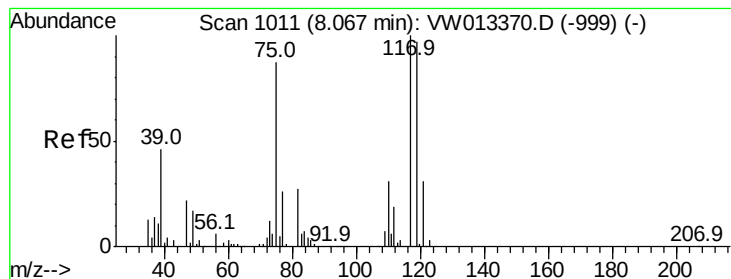
Tot Ion:113 Resp: 17409
 Ion Ratio Lower Upper
 113 100
 111 102.9 81.9 122.9
 192 26.1 19.1 28.7



#36
 1,1-Dichloropropene
 Concen: 5.305 ug/l
 RT: 7.95 min Scan# 992
 Delta R.T. -0.13 min
 Lab File: VW013379.D
 Acq: 02 Oct 2019 15:38

Tgt Ion: 75 Resp: 2946
 Ion Ratio Lower Upper
 75 100
 110 8.3 18.1 54.3#
 77 0.0 25.8 38.6#





#38

Carbon Tetrachloride

Concen: 8.169 ug/l

RT: 7.95 min Scan# 991

Delta R.T. -0.12 min

Lab File: VW013379.D

Acq: 02 Oct 2019 15:38

Instrument :

MSVOA_W

ClientSampleId :

20190705-RR-COMPOSITE-5RE

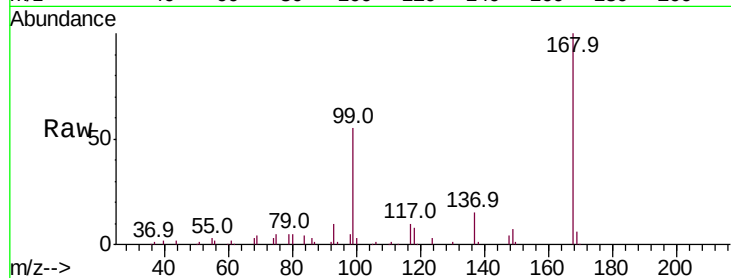
Tot Ion:117 Resp: 3930

Ion Ratio Lower Upper

117 100

119 4.5 73.5 110.3#

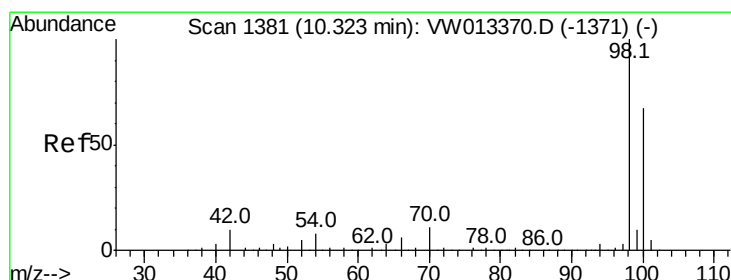
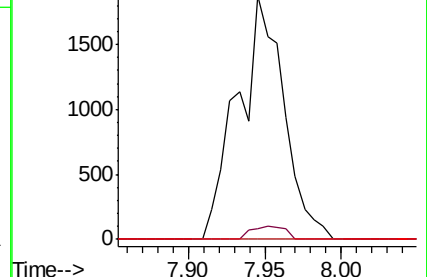
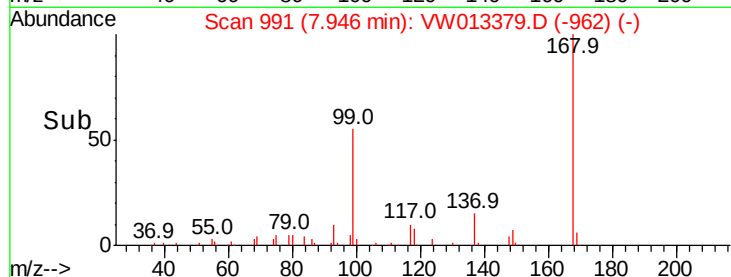
121 0.0 25.0 37.6#



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: 53.292 ug/l

RT: 10.32 min Scan# 1381

Delta R.T. 0.00 min

Lab File: VW013379.D

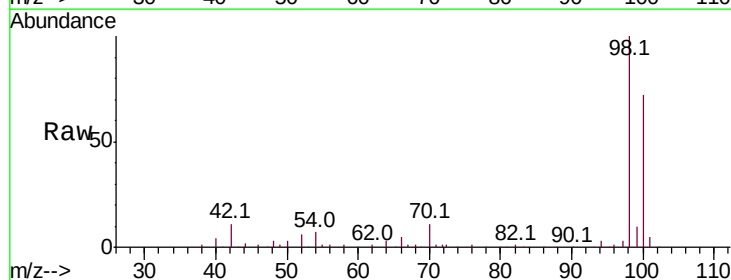
Acq: 02 Oct 2019 15:38

Tgt Ion: 98 Resp: 69384

Ion Ratio Lower Upper

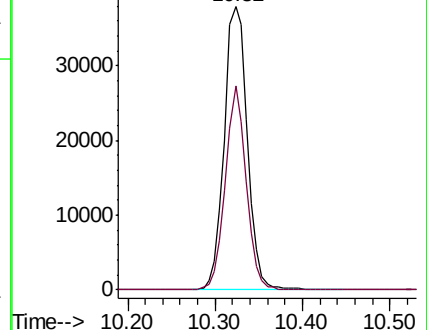
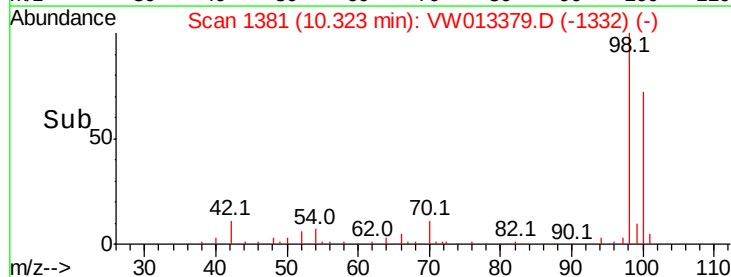
98 100

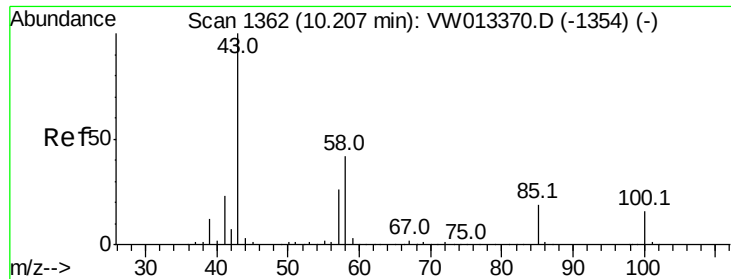
100 64.5 52.9 79.3



Abundance Ion 98.00 (97.70 to 98.70): VW

Ion 100.00 (99.70 to 100.70): VW





#51

4-Methyl-2-Pentanone

Concen: 2.513 ug/l

RT: 10.21 min Scan# 1362

Delta R.T. 0.00 min

Lab File: VW013379.D

Acq: 02 Oct 2019 15:38

Instrument :

MSVOA_W

ClientSampleId :

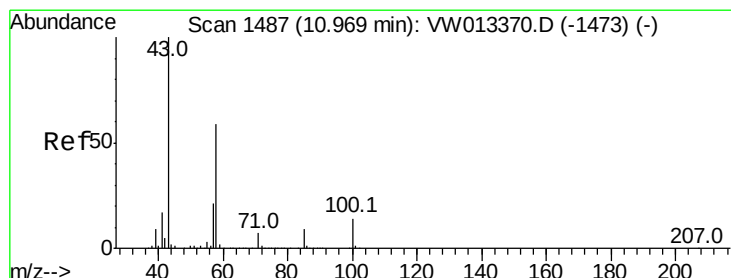
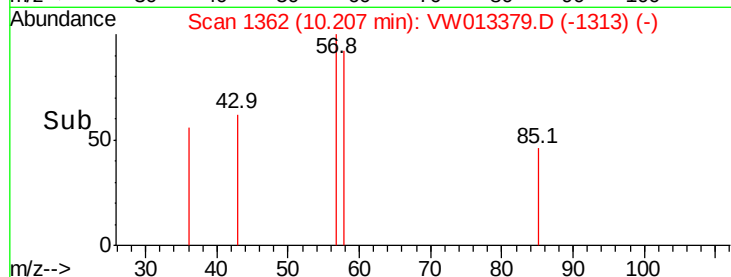
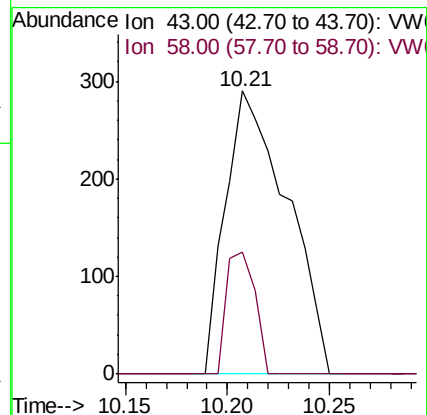
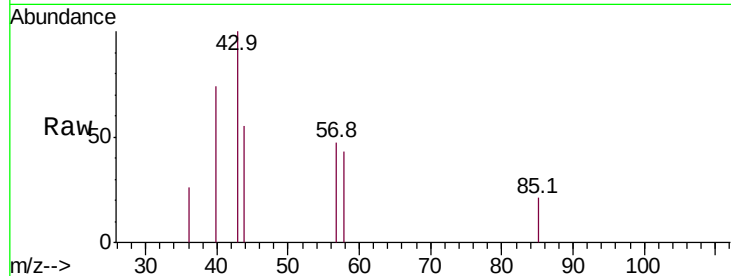
20190705-RR-COMPOSITE-5RE

Tot Ion: 43 Resp: 609

Ion Ratio Lower Upper

43 100

58 19.7 31.7 47.5#



#59

2-Hexanone

Concen: 1.262 ug/l

RT: 10.97 min Scan# 1487

Delta R.T. 0.00 min

Lab File: VW013379.D

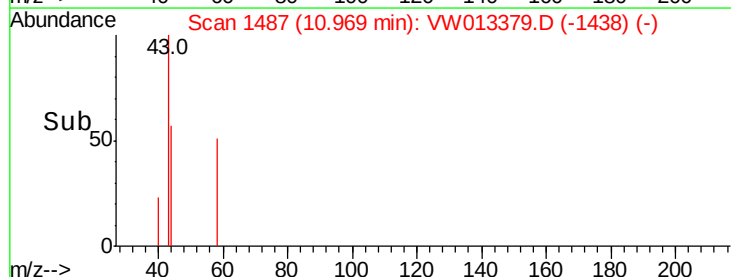
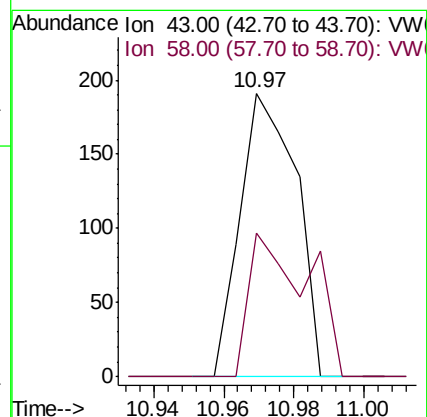
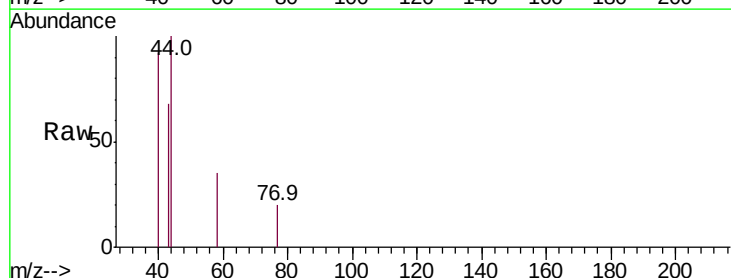
Acq: 02 Oct 2019 15:38

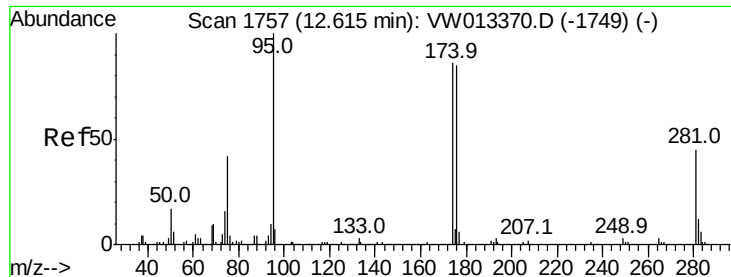
Tgt Ion: 43 Resp: 212

Ion Ratio Lower Upper

43 100

58 53.8 28.1 84.2

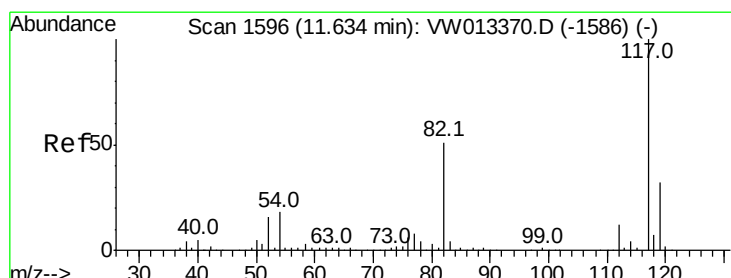
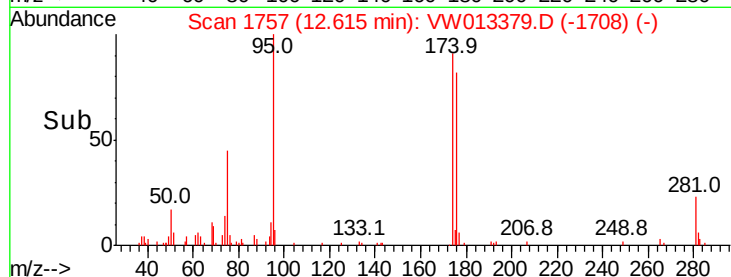
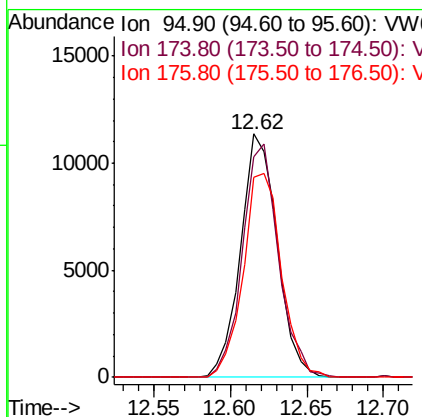
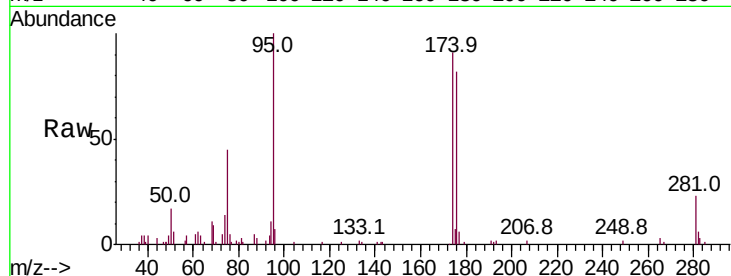




#62
4-Bromofluorobenzene
Concen: 43.508 ug/l
RT: 12.62 min Scan# 1757
Delta R.T. 0.00 min
Lab File: VW013379.D
Acq: 02 Oct 2019 15:38

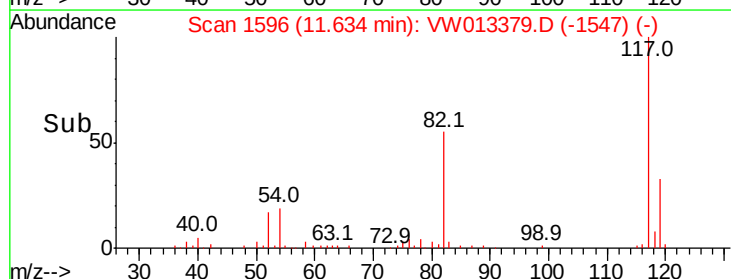
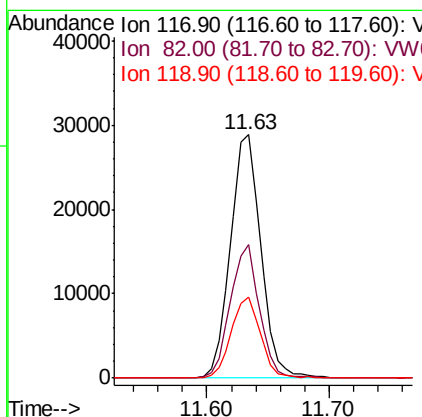
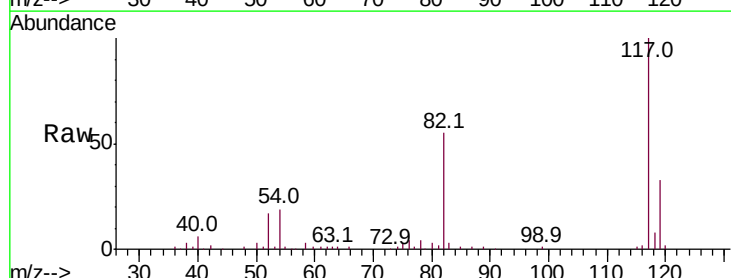
Instrument :
MSVOA_W
ClientSampleId :
20190705-RR-COMPOSITE-5RE

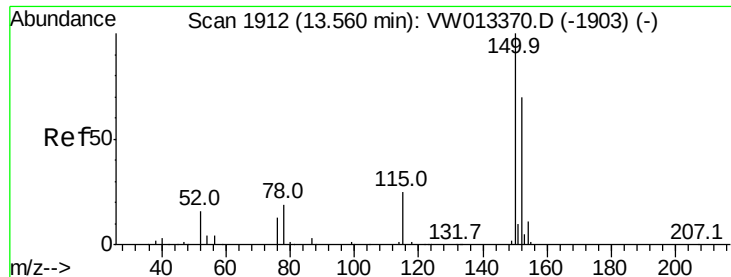
Tot Ion: 95 Resp: 18916
Ion Ratio Lower Upper
95 100
174 94.6 0.0 178.4
176 87.3 0.0 172.2



#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.63 min Scan# 1596
Delta R.T. 0.00 min
Lab File: VW013379.D
Acq: 02 Oct 2019 15:38

Tgt Ion: 117 Resp: 49521
Ion Ratio Lower Upper
117 100
82 55.0 45.9 68.9
119 33.1 26.2 39.2





#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

RT: 13.56 min Scan# 1912

Delta R.T. 0.00 min

Lab File: VW013379.D

Acq: 02 Oct 2019 15:38

Instrument :

MSVOA_W

ClientSampleId :

20190705-RR-COMPOSITE-5RE

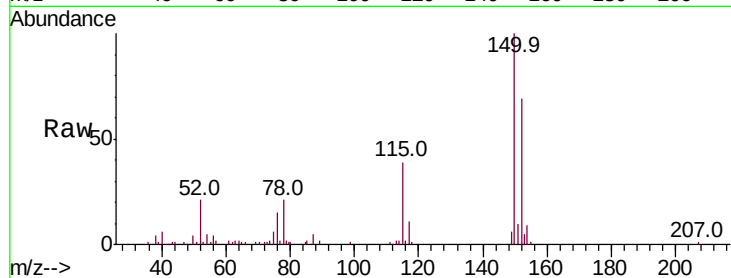
Tot Ion:152 Resp: 17353

Ion Ratio Lower Upper

152 100

115 53.7 27.3 81.9

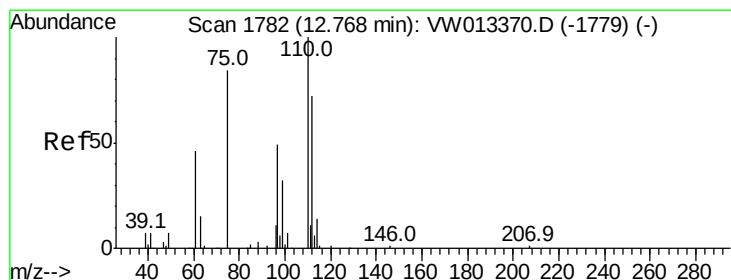
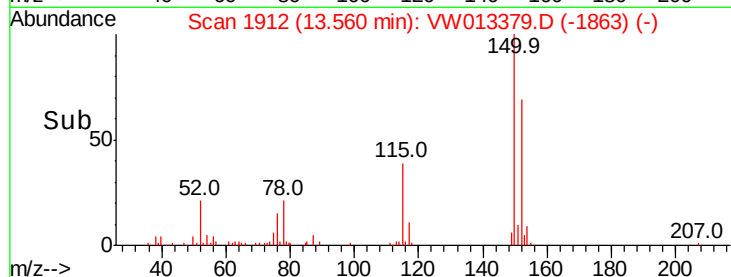
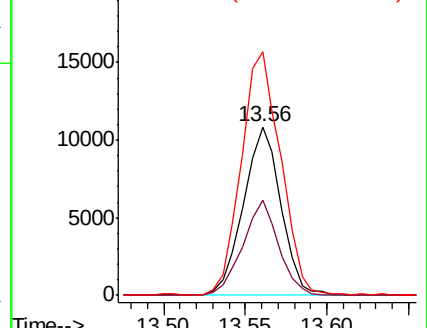
150 152.3 0.0 349.0



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: 59.334 ug/l

RT: 12.62 min Scan# 1757

Delta R.T. -0.15 min

Lab File: VW013379.D

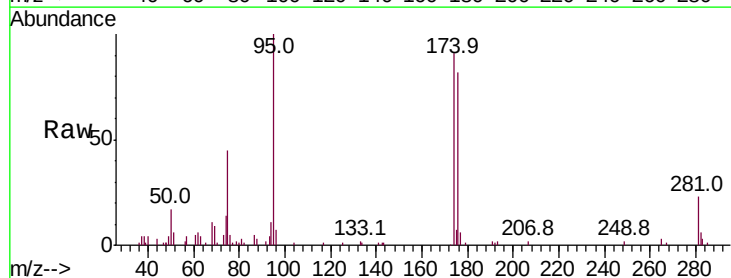
Acq: 02 Oct 2019 15:38

Tgt Ion: 75 Resp: 9151

Ion Ratio Lower Upper

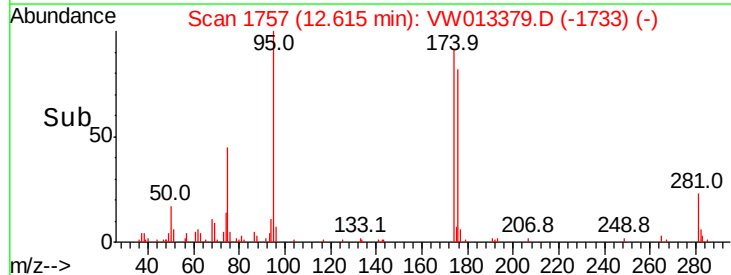
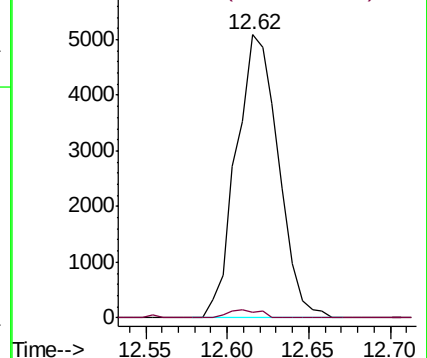
75 100

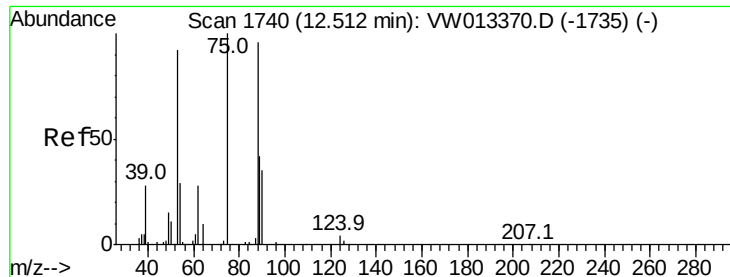
77 2.2 0.0 0.0#



Abundance Ion 74.90 (74.60 to 75.60): VW

Ion 77.00 (76.70 to 77.70): VW





#81

trans-1,4-Dichloro-2-butene

Concen: 119.775 ug/l

RT: 12.62 min Scan# 1757

Delta R.T. 0.10 min

Lab File: VW013379.D

Acq: 02 Oct 2019 15:38

Instrument :

MSVOA_W

ClientSampleId :

20190705-RR-COMPOSITE-5RE

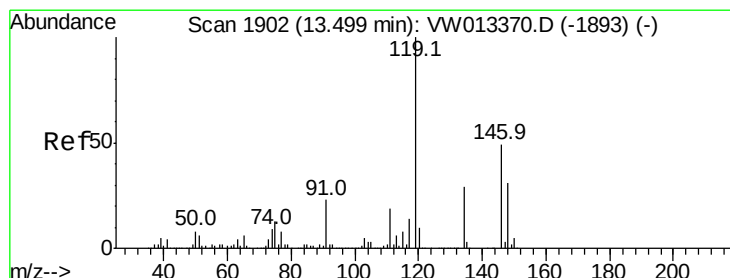
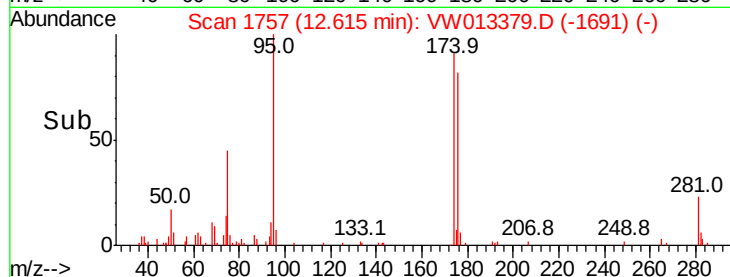
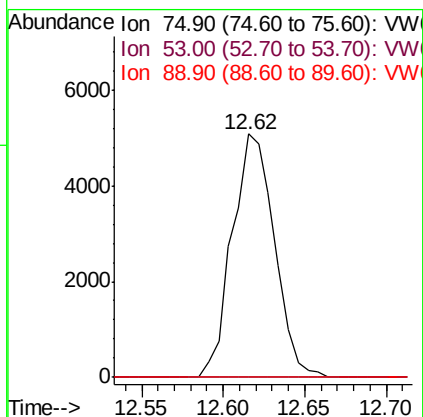
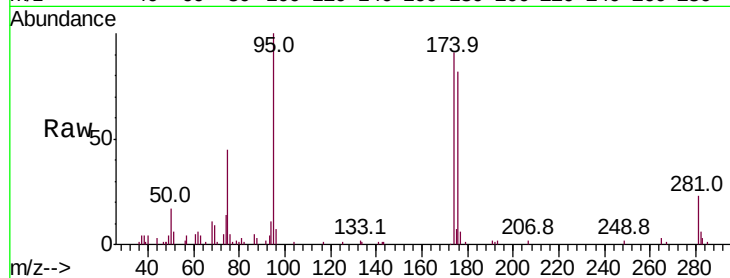
Tot Ion: 75 Resp: 9151

Ion Ratio Lower Upper

75 100

53 0.0 76.6 114.8#

89 0.0 33.5 50.3#



#87

1,3-Dichlorobenzene

Concen: 1.052 ug/l

RT: 13.49 min Scan# 1901

Delta R.T. -0.01 min

Lab File: VW013379.D

Acq: 02 Oct 2019 15:38

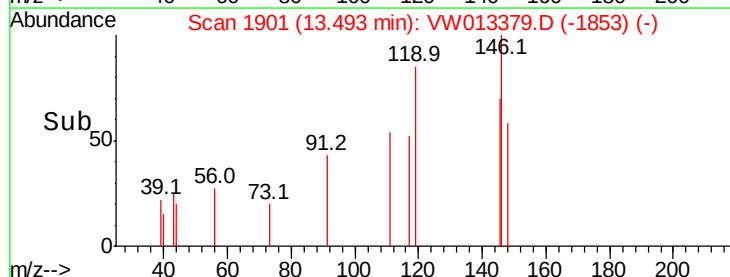
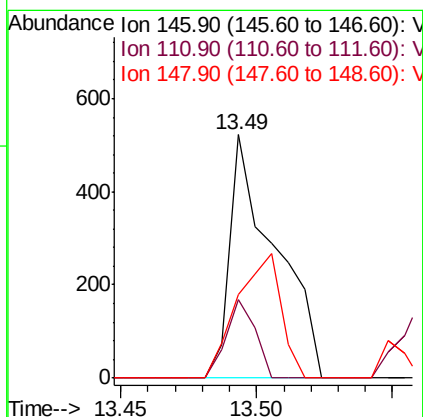
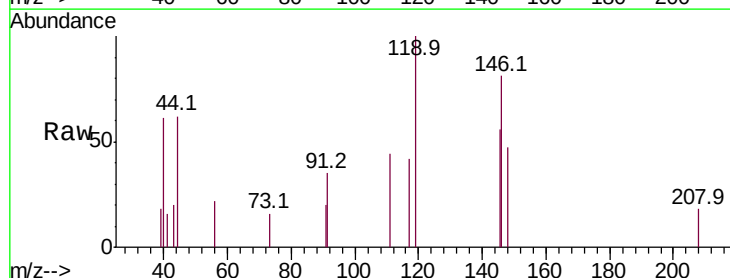
Tgt Ion: 146 Resp: 603

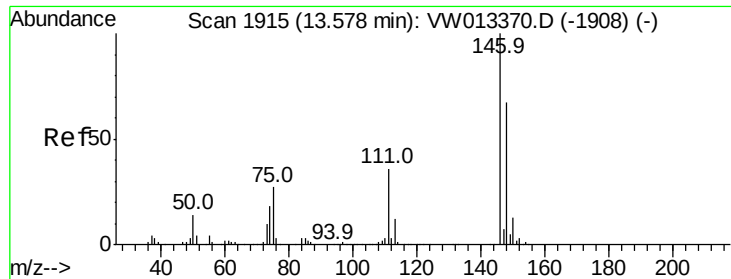
Ion Ratio Lower Upper

146 100

111 20.4 18.9 56.9

148 49.6 31.9 95.5





#88

1,4-Dichlorobenzene

Concen: 1.050 ug/l

RT: 13.49 min Scan# 1901

Delta R.T. -0.09 min

Lab File: VW013379.D

Acq: 02 Oct 2019 15:38

Instrument :

MSVOA_W

ClientSampleId :

20190705-RR-COMPOSITE-5RE

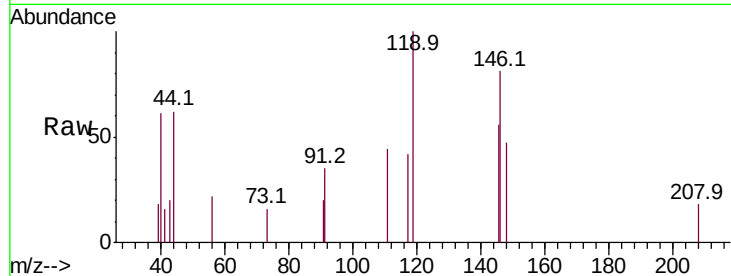
Tot Ion:146 Resp: 603

Ion Ratio Lower Upper

146 100

111 20.4 18.4 55.0

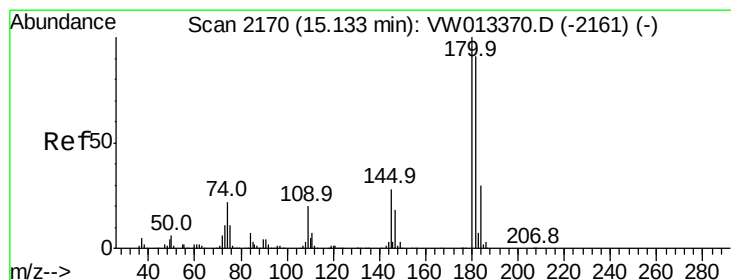
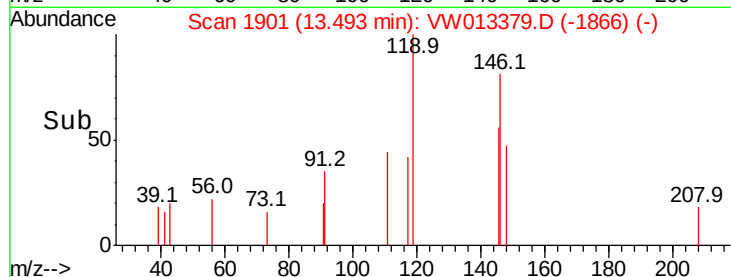
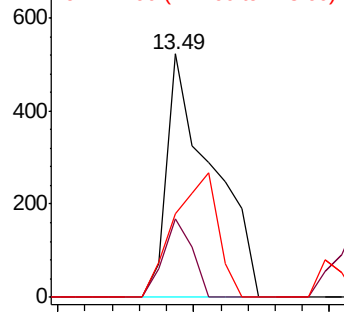
148 49.6 32.1 96.3



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: 1.344 ug/l

RT: 15.13 min Scan# 2170

Delta R.T. 0.00 min

Lab File: VW013379.D

Acq: 02 Oct 2019 15:38

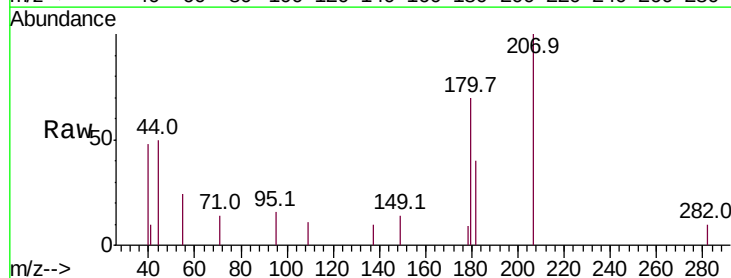
Tgt Ion:180 Resp: 489

Ion Ratio Lower Upper

180 100

182 77.3 47.3 142.0

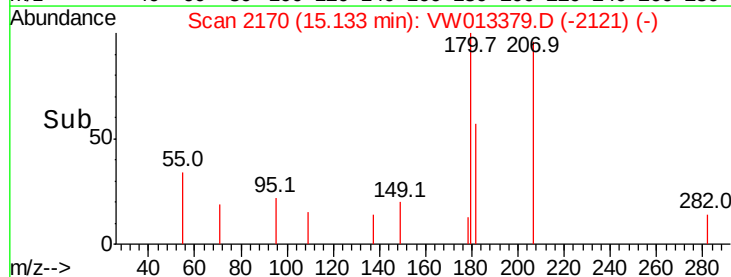
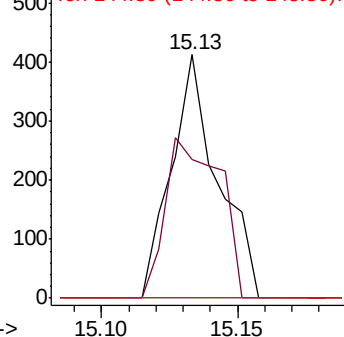
145 0.0 14.2 42.8#

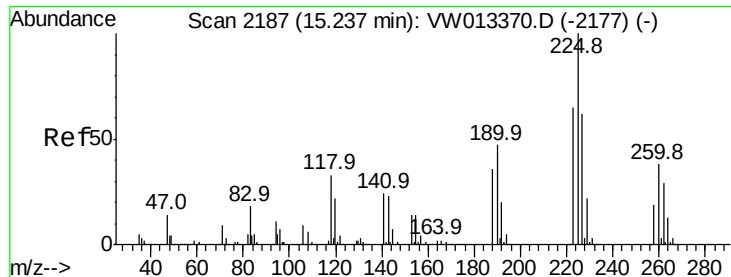


Abundance Ion 179.80 (179.50 to 180.50): V

Ion 181.80 (181.50 to 182.50): V

Ion 144.80 (144.50 to 145.50): V





#94

Hexachlorobutadiene

Concen: 1.502 ug/l

RT: 15.24 min Scan# 2188

Delta R.T. 0.01 min

Lab File: VW013379.D

Acq: 02 Oct 2019 15:38

Instrument :

MSVOA_W

ClientSampleId :

20190705-RR-COMPOSITE-5RE

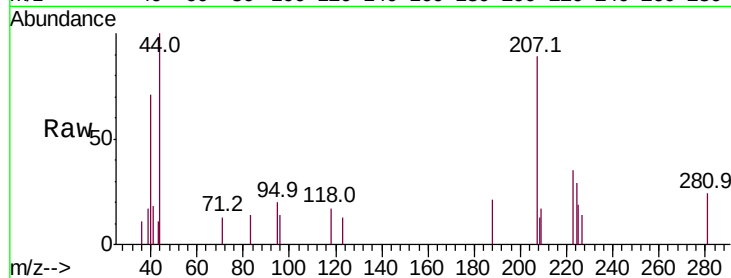
Tot Ion:225 Resp: 355

Ion Ratio Lower Upper

225 100

223 37.2 30.6 91.8

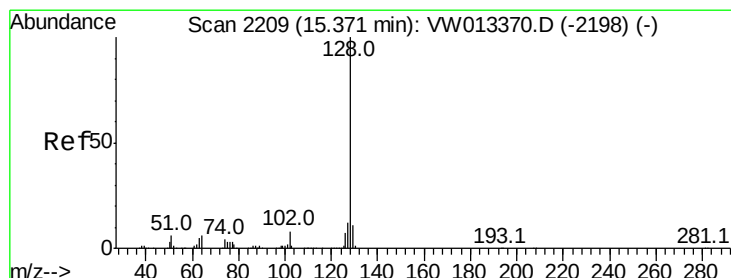
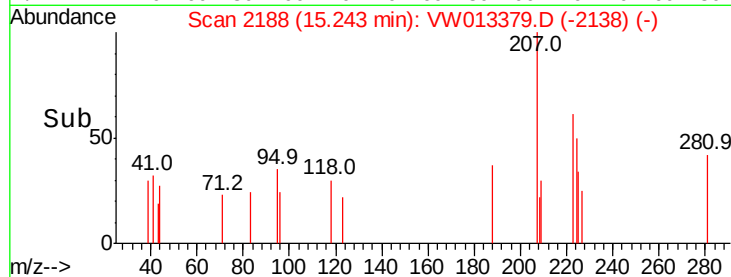
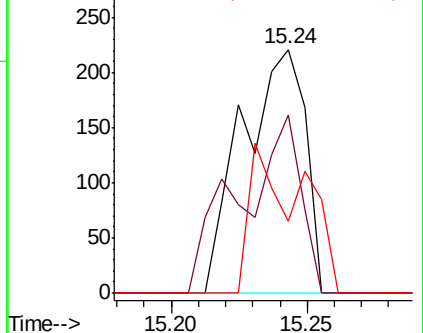
227 50.7 31.9 95.9



Abundance Ion 224.70 (224.40 to 225.40): V

Ion 222.70 (222.40 to 223.40): V

Ion 226.70 (226.40 to 227.40): V



#95

Naphthalene

Concen: 1.118 ug/l

RT: 15.36 min Scan# 2208

Delta R.T. -0.01 min

Lab File: VW013379.D

Acq: 02 Oct 2019 15:38

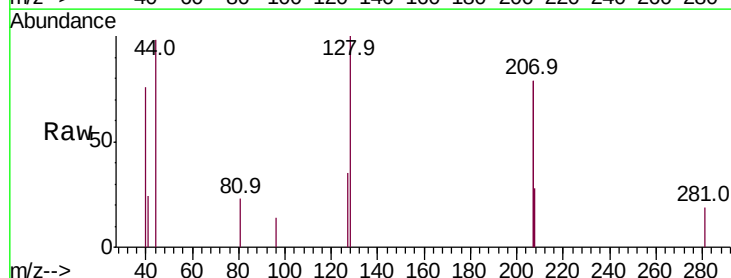
Tgt Ion:128 Resp: 686

Ion Ratio Lower Upper

128 100

127 13.6 10.6 15.8

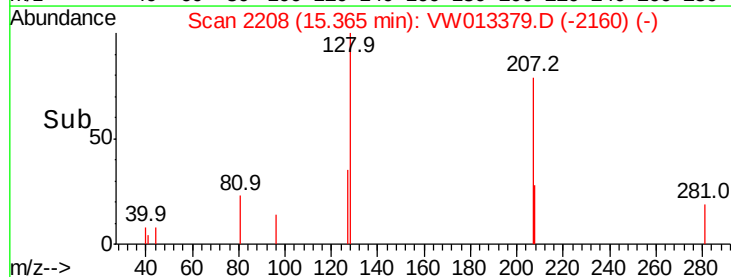
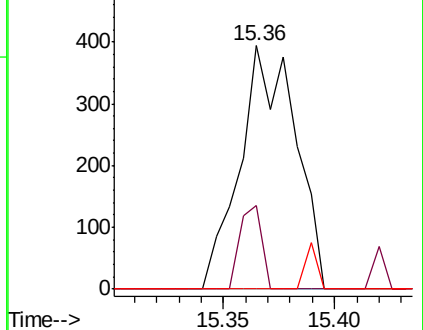
129 0.0 8.7 13.1#

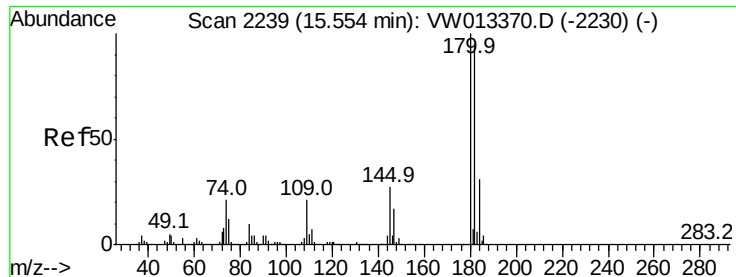


Abundance Ion 128.00 (127.70 to 128.70): V

Ion 127.00 (126.70 to 127.70): V

Ion 129.00 (128.70 to 129.70): V





#96

1,2,3-Trichlorobenzene

Concen: 1.590 ug/l

RT: 15.56 min Scan# 2240

Delta R.T. 0.01 min

Lab File: VW013379.D

Acq: 02 Oct 2019 15:38

Instrument :

MSVOA_W

ClientSampleId :

20190705-RR-COMPOSITE-5RE

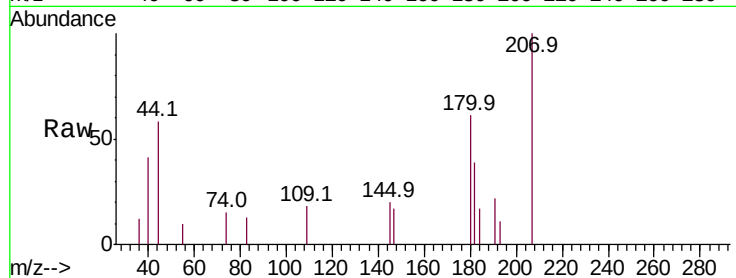
Tot Ion:180 Resp: 505

Ion Ratio Lower Upper

180 100

182 74.1 47.9 143.7

145 31.5 15.0 45.0



Abundance Ion 179.80 (179.50 to 180.50): V

Ion 181.80 (181.50 to 182.50): V

Ion 144.90 (144.60 to 145.60): V

