

Data Path : Z:\VOASRV\HPCHEM1\MSVOA_W\DATA\VW091619\
 Data File : VW013072.D
 Acq On : 17 Sep 2019 06:14
 Operator : SY/VA
 Sample : K4900-01
 Misc : 4.89G/5ML/MSVOA_W/SOIL
 ALS Vial : 47 Sample Multiplier: 1

Instrument :
 MSVOA_W
 ClientSampleId :
 RBR-200027-RBR-200049

Quant Time: Sep 17 07:30:39 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_W\METHOD\82W091419S.M
 Quant Title : SW846 8260
 QLast Update : Fri Sep 13 17:26:01 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	7.95	168	358636	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	8.84	114	541475	50.00	ug/l	0.00
63) Chlorobenzene-d5	11.63	117	487908	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.56	152	199611	50.00	ug/l	0.00

System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	8.30	65	184323	55.65	ug/l	0.00
Spiked Amount	50.000		Recovery	=	111.30%	
35) Dibromofluoromethane	7.88	113	155752	53.01	ug/l	0.00
Spiked Amount	50.000		Recovery	=	106.02%	
50) Toluene-d8	10.32	98	670915	58.35	ug/l	0.00
Spiked Amount	50.000		Recovery	=	116.70%	
62) 4-Bromofluorobenzene	12.62	95	222320	53.78	ug/l	0.00
Spiked Amount	50.000		Recovery	=	107.56%	

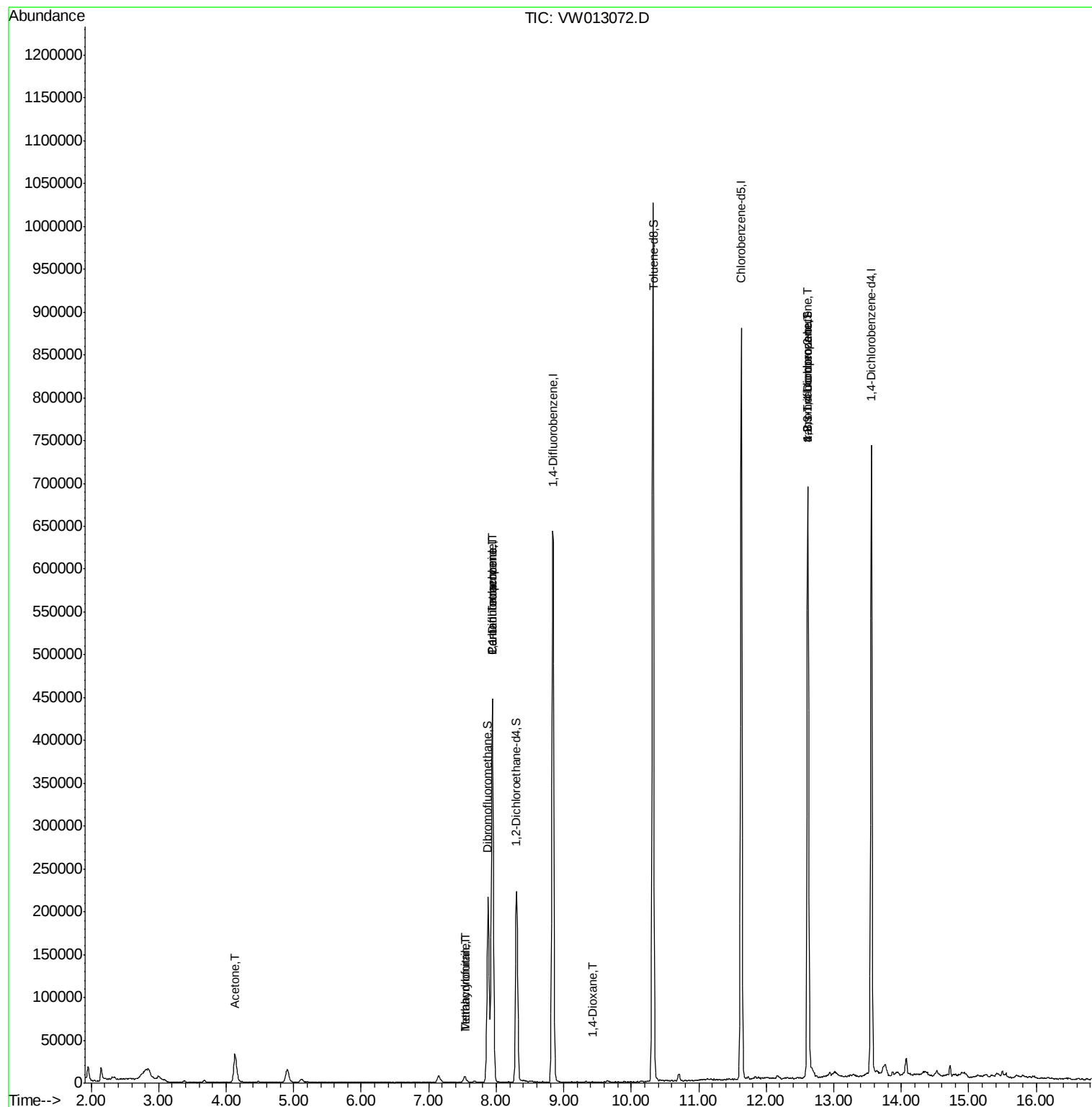
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
2) Dichlorodifluoromethane	1.99	85	50	Below Cal	#	44
3) Chloromethane	2.20	50	467	Below Cal	#	59
11) Tert butyl alcohol	5.20	59	349	Below Cal	#	72
13) Acrolein	3.92	56	19	Below Cal	#	15
16) Acetone	4.13	43	67400	80.526	ug/l	96
20) Methylene Chloride	4.91	84	11463	Below Cal		94
26) 2,2-Dichloropropane	7.13	77	769	Below Cal	#	55
29) Tetrahydrofuran	7.54	42	6142	10.235	ug/l	97
31) Cyclohexane	7.93	56	7153	Below Cal	#	1
36) 1,1-Dichloropropene	7.94	75	26359	6.092	ug/l	50
38) Carbon Tetrachloride	7.94	117	33720	7.605	ug/l	15
41) Methacrylonitrile	7.53	41	3941	2.606	ug/l	55
49) 1,4-Dioxane	9.43	88	62	2.407	ug/l	20
76) 1,2,3-Trichloropropane	12.62	75	111686	63.878	ug/l	100
81) trans-1,4-Dichloro-2-buten	12.62	75	111686	144.905	ug/l	7

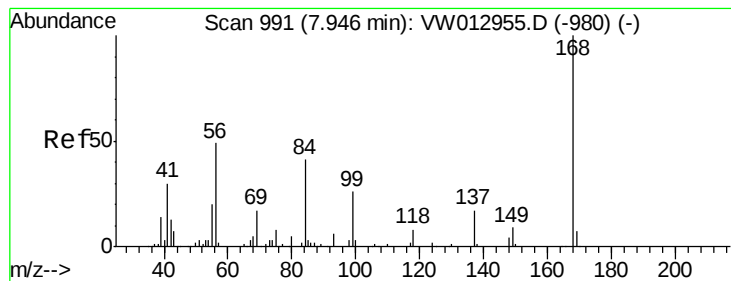
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 7.95 min Scan# 991

Delta R.T. -0.00 min

Lab File: VW013072.D

Acq: 17 Sep 2019 06:14

Instrument :

MSVOA_W

ClientSampleId :

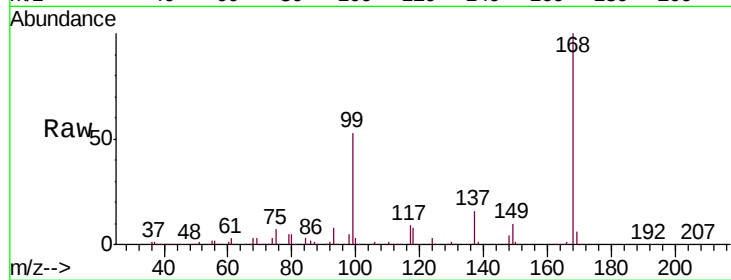
RBR-200027-RBR-200049

Tgt Ion:168 Resp: 358636

Ion Ratio Lower Upper

168 100

99 52.7 46.2 69.2



Abundance Ion 167.90 (167.60 to 168.60): VW

Ion 98.90 (98.60 to 99.60): VW

7.95

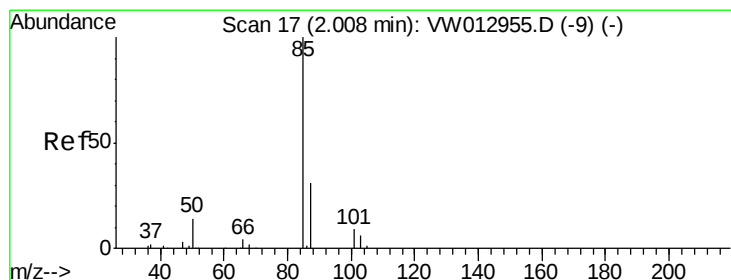
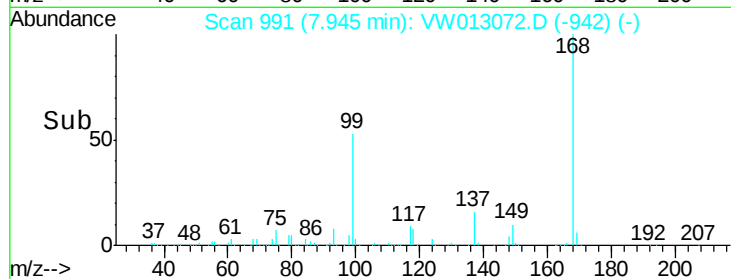
150000

100000

50000

0

Time--> 7.80 7.90 8.00



#2

Dichlorodifluoromethane

Concen: Below Cal

RT: 1.99 min Scan# 14

Delta R.T. -0.02 min

Lab File: VW013072.D

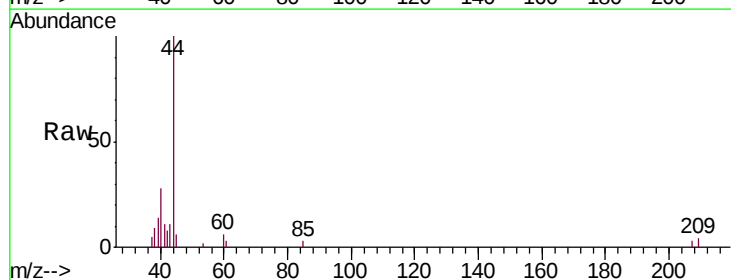
Acq: 17 Sep 2019 06:14

Tgt Ion: 85 Resp: 50

Ion Ratio Lower Upper

85 100

87 0.0 15.4 46.4#



Abundance Ion 84.90 (84.60 to 85.60): VW

Ion 86.90 (86.60 to 87.60): VW

80

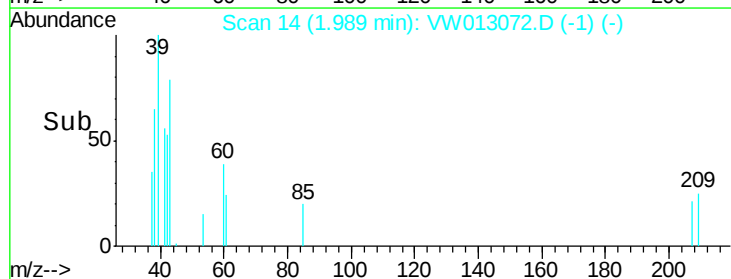
60

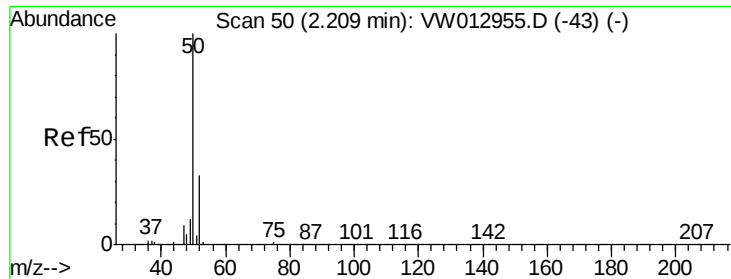
40

20

0

Time--> 1.96 1.98 2.00 2.02





#3

Chloromethane

Concen: Below Cal

RT: 2.20 min Scan# 49

Delta R.T. -0.01 min

Lab File: VW013072.D

Acq: 17 Sep 2019 06:14

Instrument :

MSVOA_W

ClientSampleId :

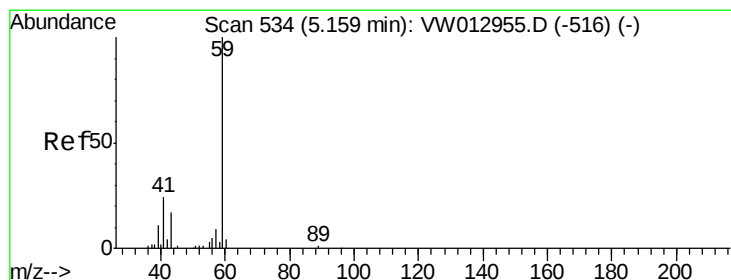
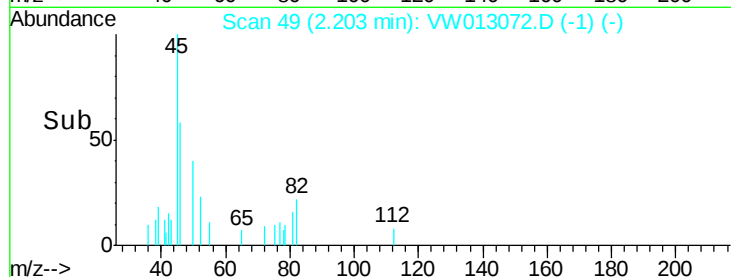
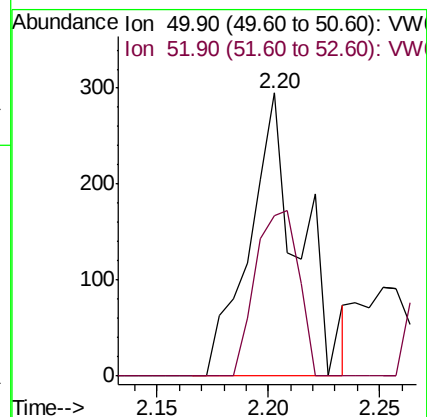
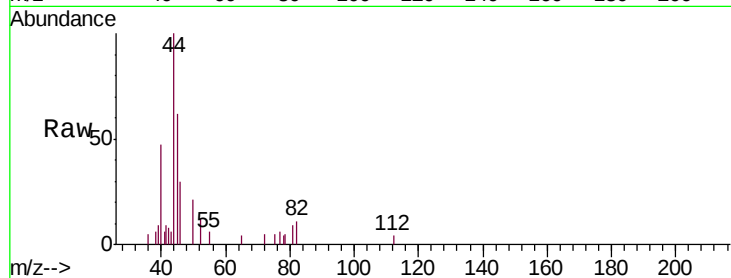
RBR-200027-RBR-200049

Tgt Ion: 50 Resp: 467

Ion Ratio Lower Upper

50 100

52 56.6 26.6 39.8#



#11

Tert butyl alcohol

Concen: Below Cal

RT: 5.20 min Scan# 540

Delta R.T. 0.04 min

Lab File: VW013072.D

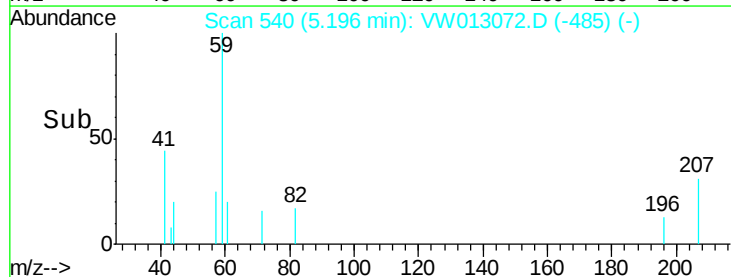
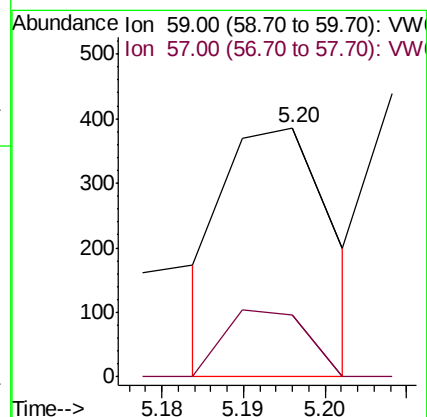
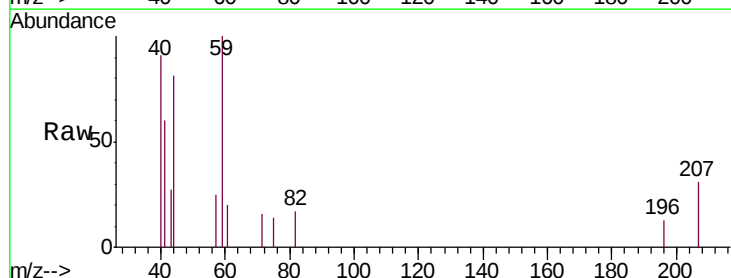
Acq: 17 Sep 2019 06:14

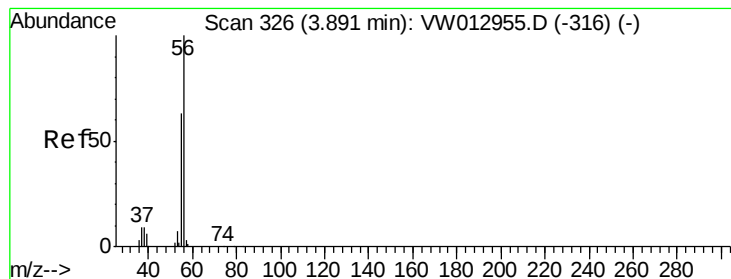
Tgt Ion: 59 Resp: 349

Ion Ratio Lower Upper

59 100

57 21.2 8.5 12.7#





#13

Acrolein

Concen: Below Cal

RT: 3.92 min Scan# 331

Delta R.T. 0.03 min

Lab File: VW013072.D

Acq: 17 Sep 2019 06:14

Instrument :

MSVOA_W

ClientSampleId :

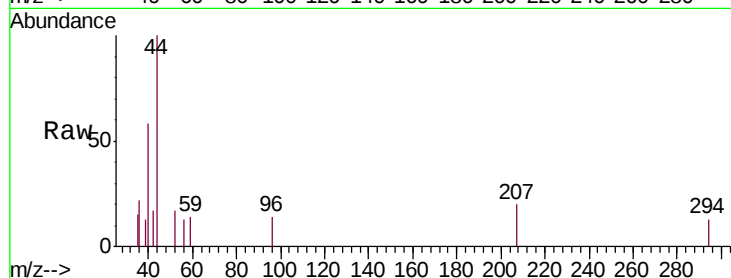
RBR-200027-RBR-200049

Tgt Ion: 56 Resp: 19

Ion Ratio Lower Upper

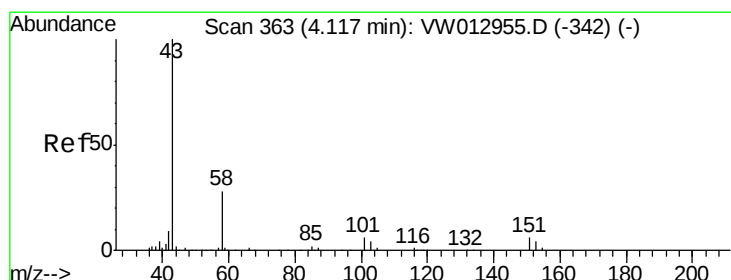
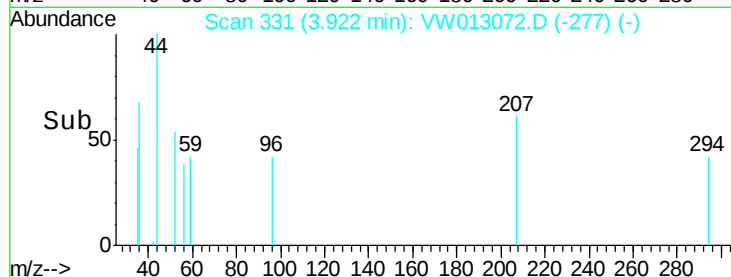
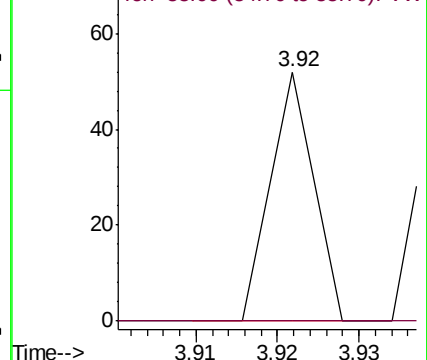
56 100

55 0.0 55.8 83.8#



Abundance Ion 56.00 (55.70 to 56.70): VW

Ion 55.00 (54.70 to 55.70): VW



#16

Acetone

Concen: 80.526 ug/l

RT: 4.13 min Scan# 365

Delta R.T. 0.01 min

Lab File: VW013072.D

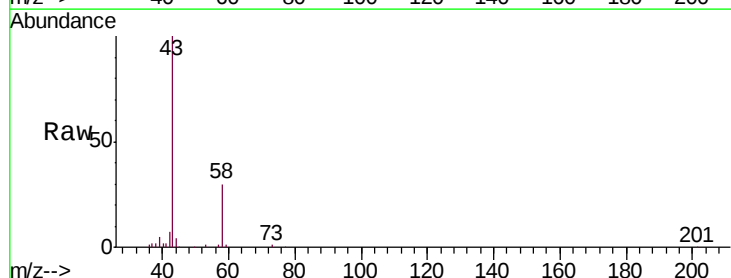
Acq: 17 Sep 2019 06:14

Tgt Ion: 43 Resp: 67400

Ion Ratio Lower Upper

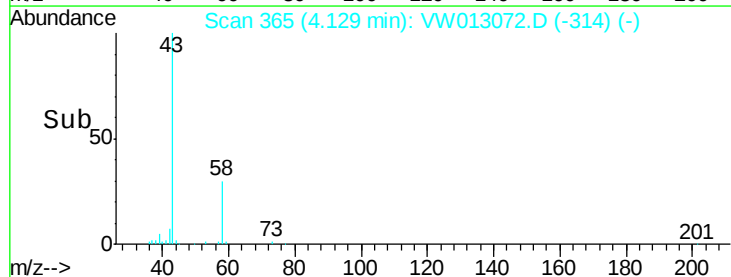
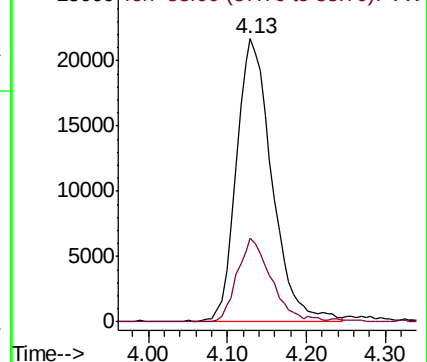
43 100

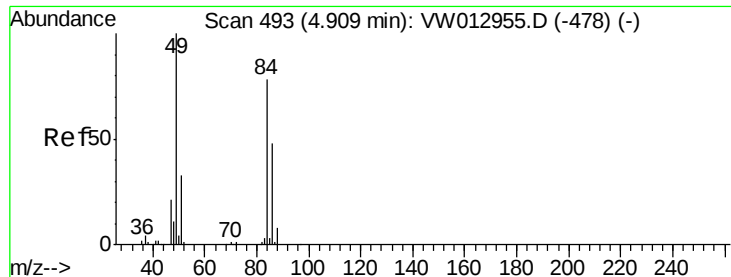
58 29.8 22.3 33.5



Abundance Ion 43.00 (42.70 to 43.70): VW

Ion 58.00 (57.70 to 58.70): VW

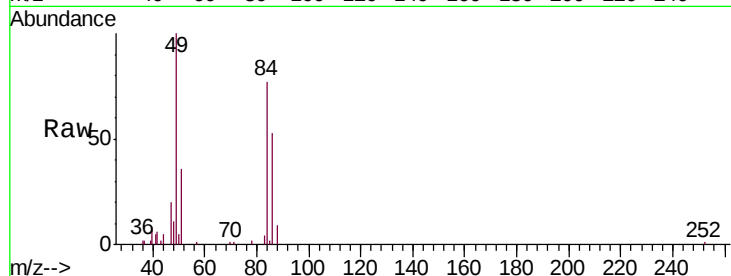




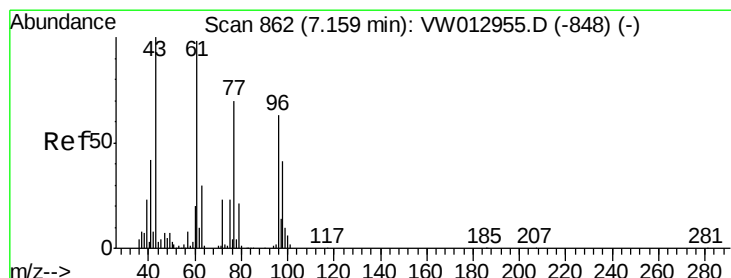
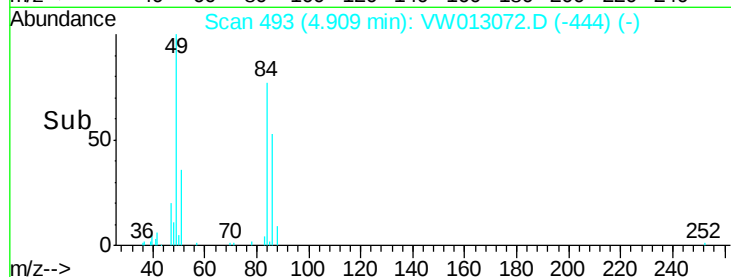
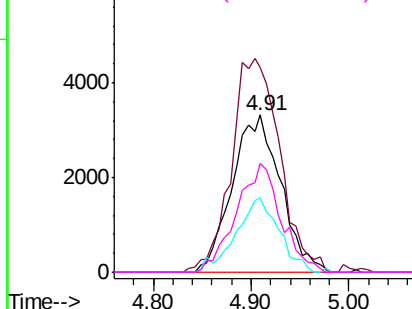
#20
Methylene Chloride
Concen: Below Cal
RT: 4.91 min Scan# 493
Delta R.T. 0.00 min
Lab File: VW013072.D
Acq: 17 Sep 2019 06:14

Instrument :
MSVOA_W
ClientSampleId :
RBR-200027-RBR-200049

Tgt Ion: 84 Resp: 11463
Ion Ratio Lower Upper
84 100
49 130.6 102.0 153.0
51 47.0 34.0 51.0
86 69.4 48.5 72.7

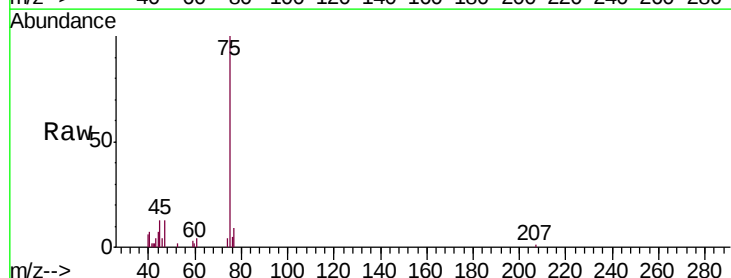


Abundance Ion 83.90 (83.60 to 84.60): VW
Ion 48.90 (48.60 to 49.60): VW
Ion 50.90 (50.60 to 51.60): VW
Ion 85.90 (85.60 to 86.60): VW

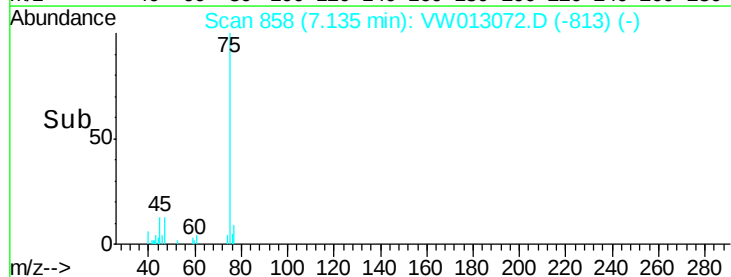
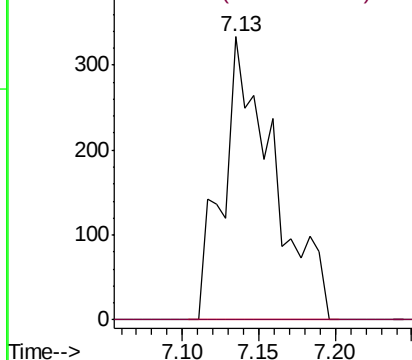


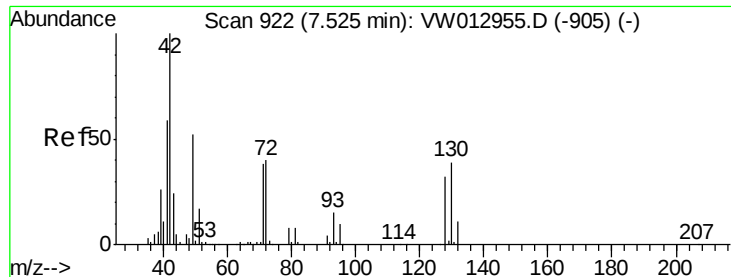
#26
2,2-Dichloropropane
Concen: Below Cal
RT: 7.13 min Scan# 858
Delta R.T. -0.02 min
Lab File: VW013072.D
Acq: 17 Sep 2019 06:14

Tgt Ion: 77 Resp: 769
Ion Ratio Lower Upper
77 100
97 0.0 10.7 32.1#



Abundance Ion 76.90 (76.60 to 77.60): VW
Ion 96.90 (96.60 to 97.60): VW

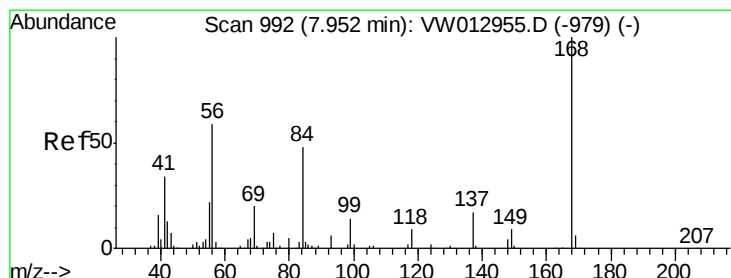
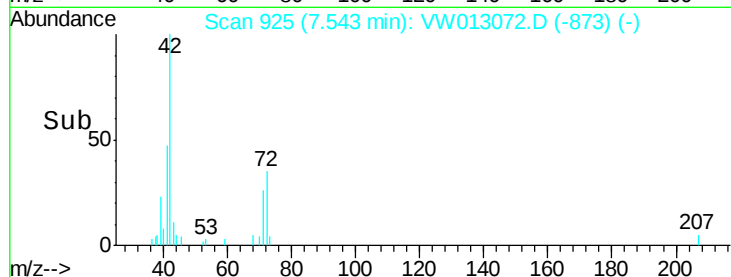
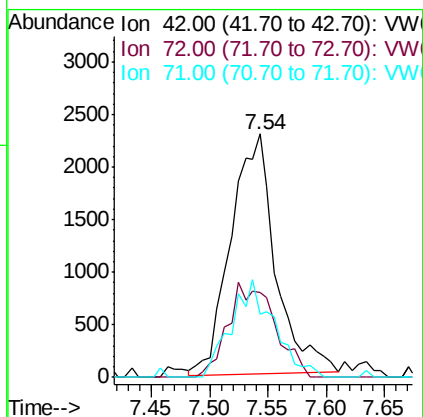
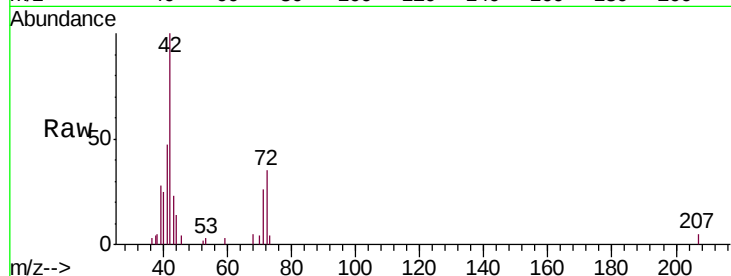




#29
Tetrahydrofuran
Concen: 10.235 ug/l
RT: 7.54 min Scan# 925
Delta R.T. 0.02 min
Lab File: VW013072.D
Acq: 17 Sep 2019 06:14

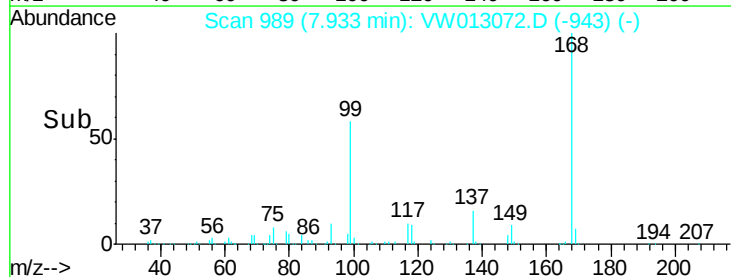
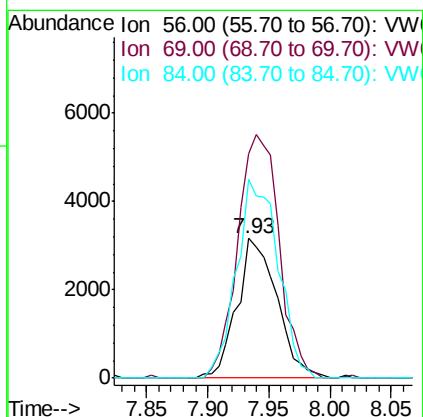
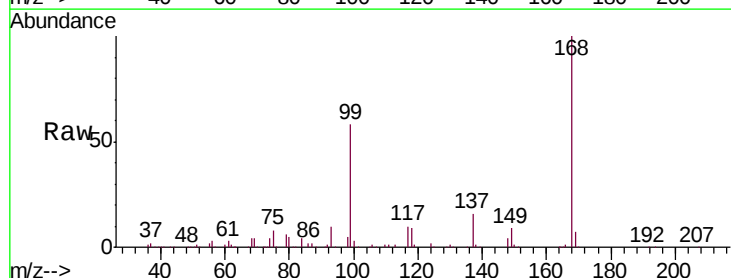
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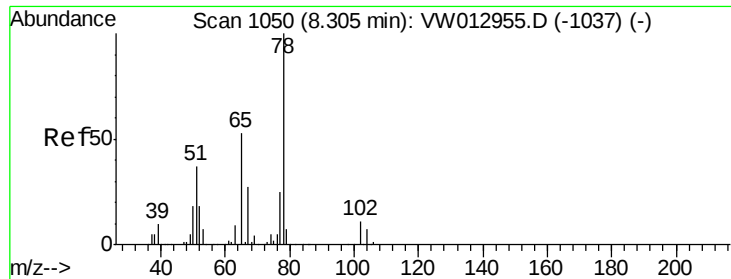
Tgt Ion: 42 Resp: 6142
Ion Ratio Lower Upper
42 100
72 40.8 31.4 47.0
71 38.8 29.8 44.8



#31
Cyclohexane
Concen: Below Cal
RT: 7.93 min Scan# 989
Delta R.T. -0.02 min
Lab File: VW013072.D
Acq: 17 Sep 2019 06:14

Tgt Ion: 56 Resp: 7153
Ion Ratio Lower Upper
56 100
69 161.1 27.0 40.6#
84 142.5 66.2 99.2#

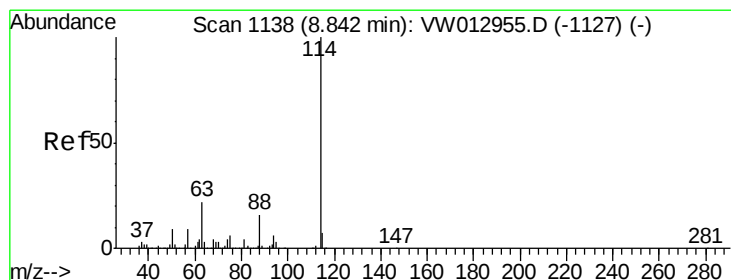
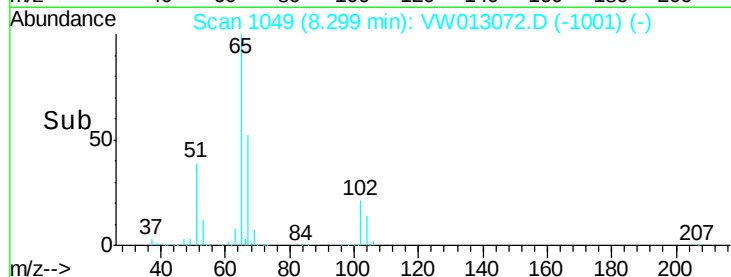
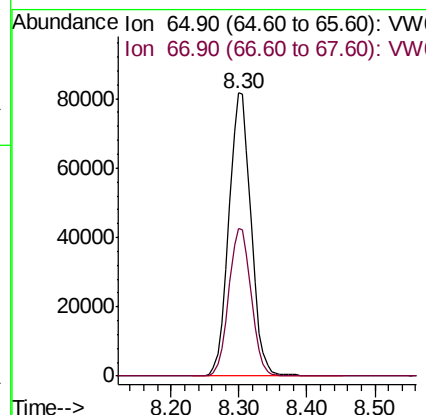
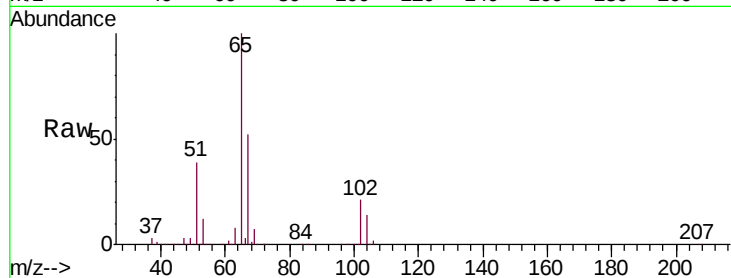




#33
 1,2-Dichloroethane-d4
 Concen: 55.649 ug/l
 RT: 8.30 min Scan# 1049
 Delta R.T. -0.01 min
 Lab File: VW013072.D
 Acq: 17 Sep 2019 06:14

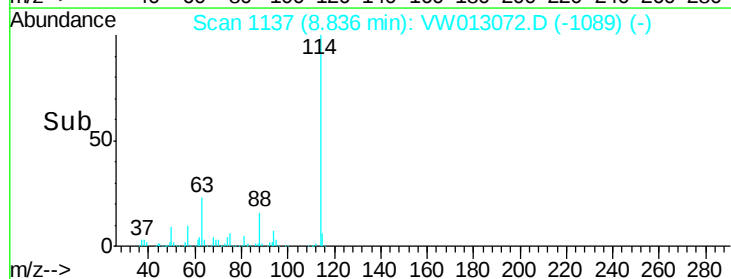
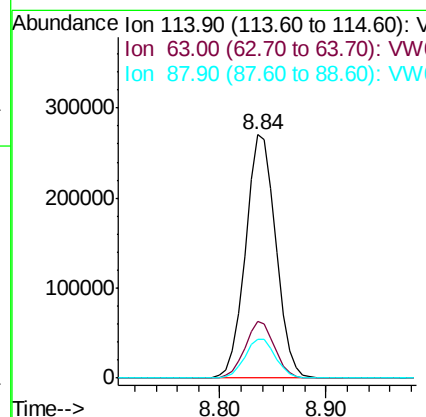
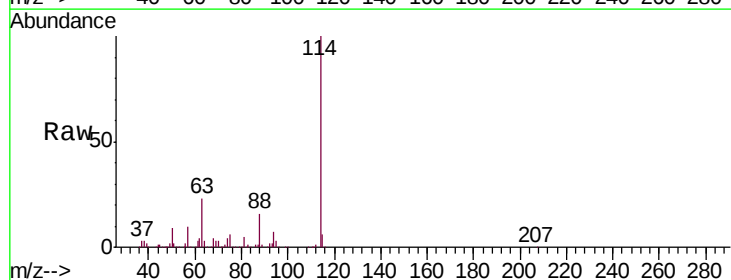
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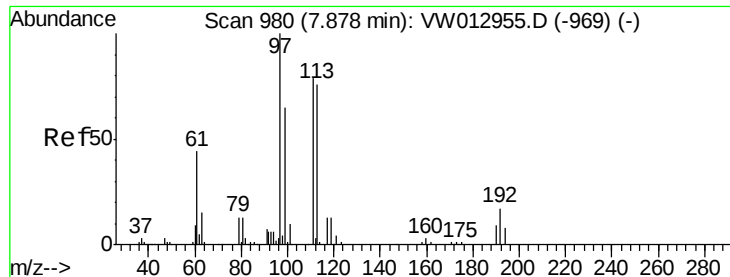
Tgt Ion: 65 Resp: 184323
 Ion Ratio Lower Upper
 65 100
 67 52.6 0.0 101.2



#34
 1,4-Difluorobenzene
 Concen: 50.000 ug/l
 RT: 8.84 min Scan# 1137
 Delta R.T. -0.01 min
 Lab File: VW013072.D
 Acq: 17 Sep 2019 06:14

Tgt Ion: 114 Resp: 541475
 Ion Ratio Lower Upper
 114 100
 63 23.4 0.0 43.4
 88 15.8 0.0 31.6

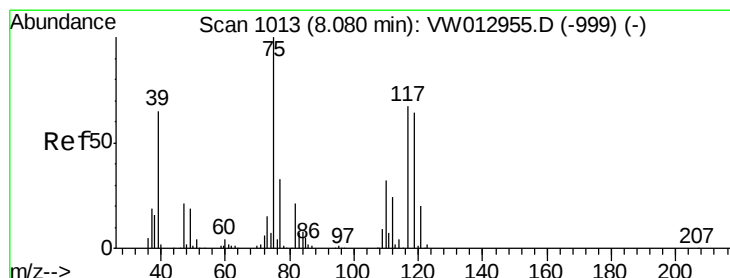
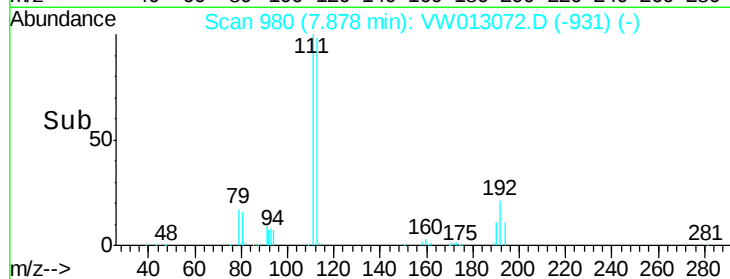
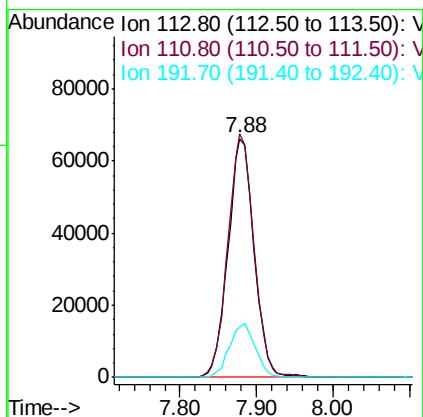
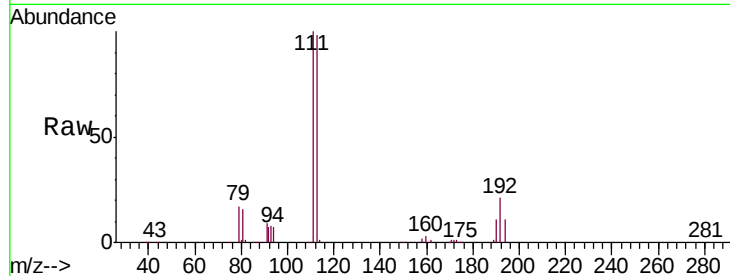




#35
 Dibromofluoromethane
 Concen: 53.011 ug/l
 RT: 7.88 min Scan# 980
 Delta R.T. -0.00 min
 Lab File: VW013072.D
 Acq: 17 Sep 2019 06:14

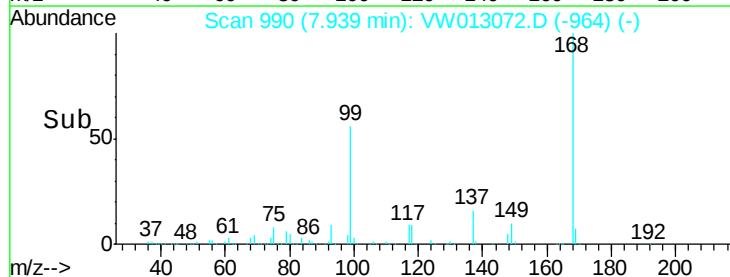
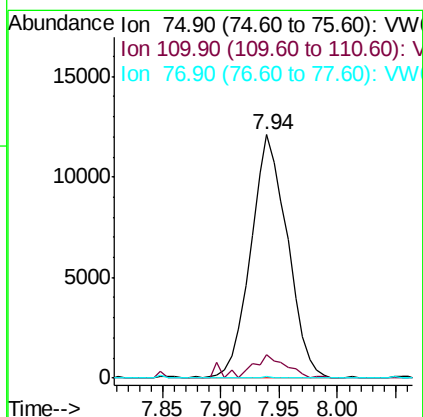
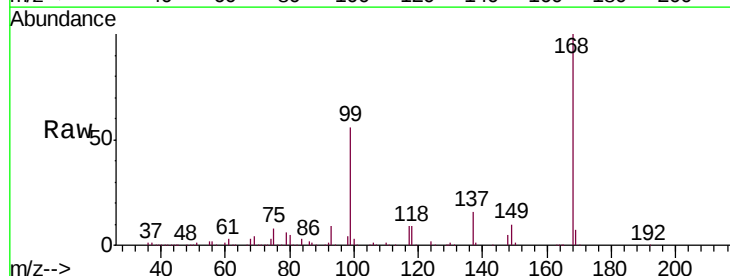
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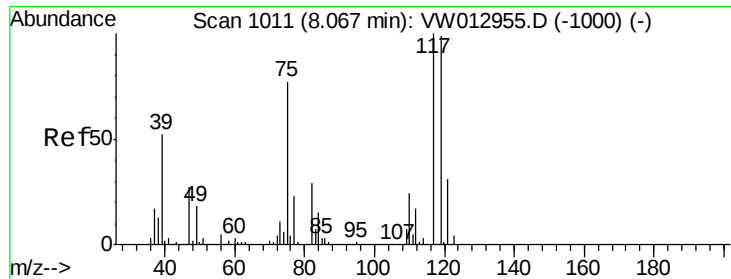
Tgt Ion:113 Resp: 155752
 Ion Ratio Lower Upper
 113 100
 111 101.9 82.8 124.2
 192 22.5 17.8 26.8



#36
 1,1-Dichloropropene
 Concen: 6.092 ug/l
 RT: 7.94 min Scan# 990
 Delta R.T. -0.14 min
 Lab File: VW013072.D
 Acq: 17 Sep 2019 06:14

Tgt Ion: 75 Resp: 26359
 Ion Ratio Lower Upper
 75 100
 110 8.4 16.4 49.1#
 77 0.1 25.1 37.7#





#38

Carbon Tetrachloride

Concen: 7.605 ug/l

RT: 7.94 min Scan# 990

Delta R.T. -0.13 min

Lab File: VW013072.D

Acq: 17 Sep 2019 06:14

Instrument :

MSVOA_W

ClientSampleId :

RBR-200027-RBR-200049

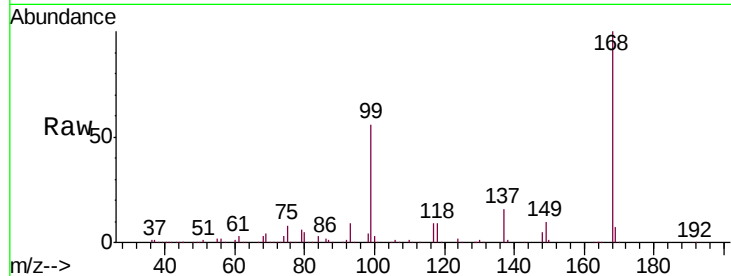
Tgt Ion: 117 Resp: 33720

Ion Ratio Lower Upper

117 100

119 5.1 79.4 119.0#

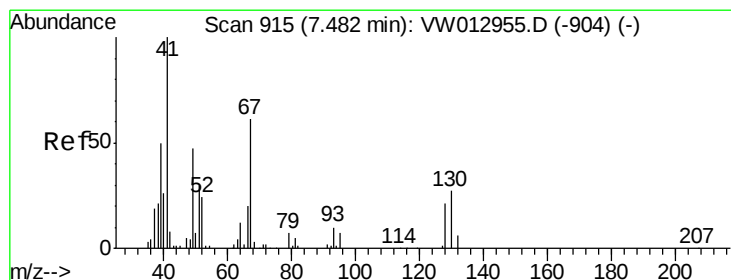
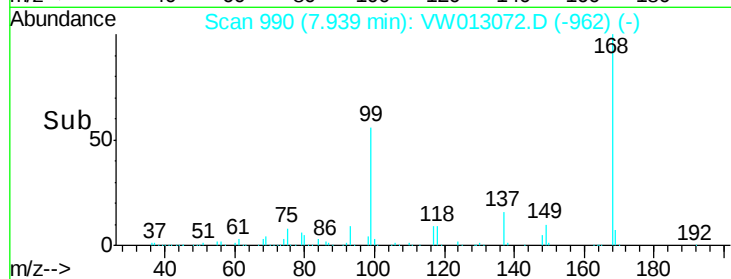
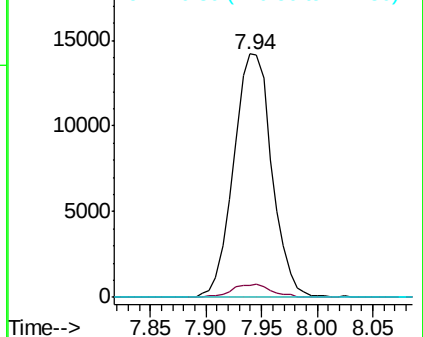
121 0.0 24.6 36.8#



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



#41

Methacrylonitrile

Concen: 2.606 ug/l

RT: 7.53 min Scan# 923

Delta R.T. 0.05 min

Lab File: VW013072.D

Acq: 17 Sep 2019 06:14

Tgt Ion: 41 Resp: 3941

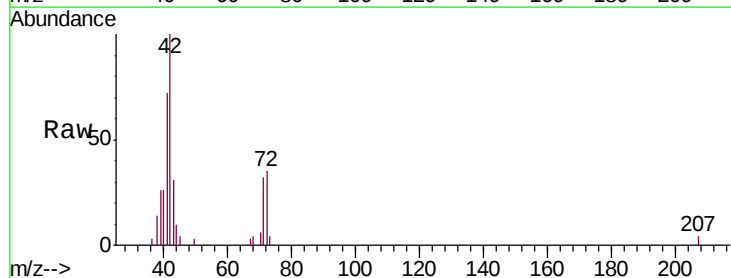
Ion Ratio Lower Upper

41 100

39 50.7 48.2 72.4

67 1.6 47.5 71.3#

52 0.5 21.0 31.4#

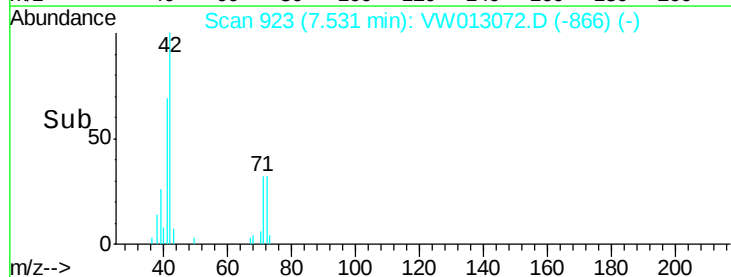
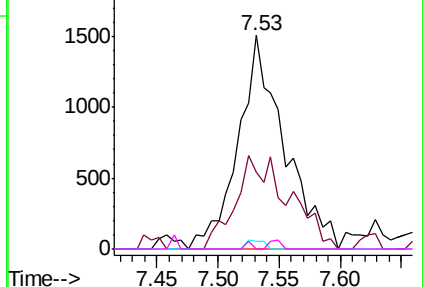


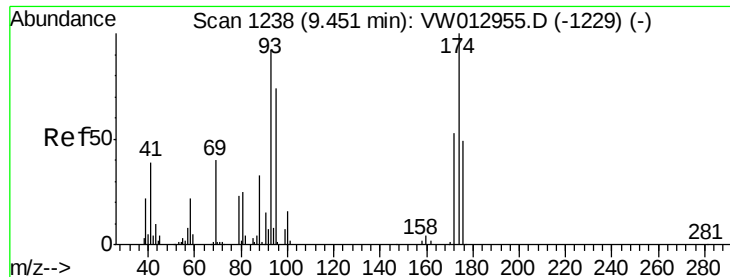
Abundance Ion 41.00 (40.70 to 41.70): VW

Ion 39.00 (38.70 to 39.70): VW

Ion 67.00 (66.70 to 67.70): VW

Ion 52.00 (51.70 to 52.70): VW





#49

1,4-Dioxane

Concen: 2.407 ug/l

RT: 9.43 min Scan# 1234

Delta R.T. -0.02 min

Lab File: VW013072.D

Acq: 17 Sep 2019 06:14

Instrument :

MSVOA_W

ClientSampleId :

RBR-200027-RBR-200049

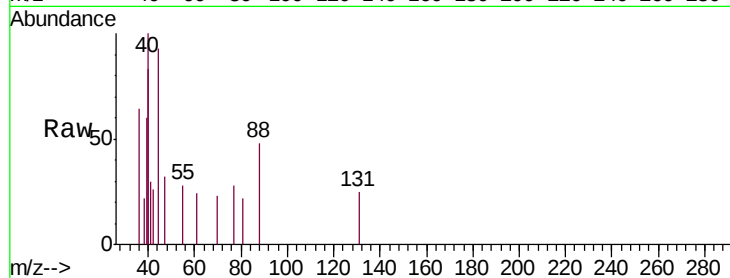
Tgt Ion: 88 Resp: 62

Ion Ratio Lower Upper

88 100

43 0.0 31.3 46.9#

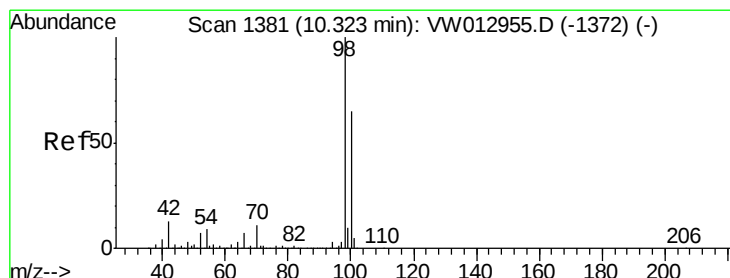
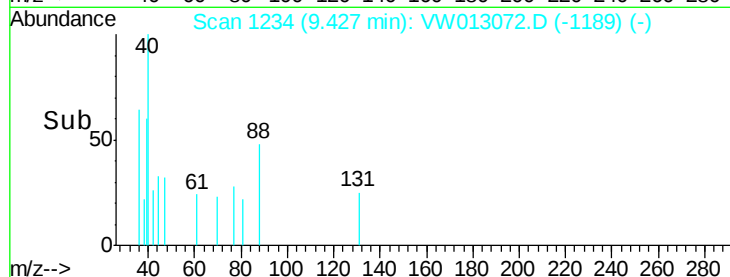
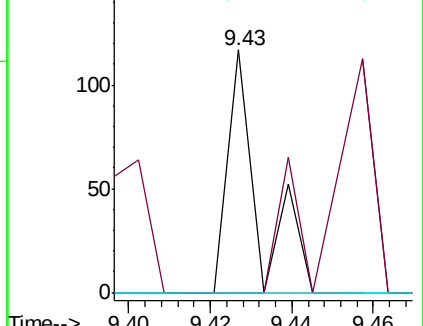
58 0.0 60.2 90.2#



Abundance Ion 88.00 (87.70 to 88.70): VW

Ion 43.00 (42.70 to 43.70): VW

Ion 58.00 (57.70 to 58.70): VW



#50

Toluene-d8

Concen: 58.355 ug/l

RT: 10.32 min Scan# 1381

Delta R.T. -0.00 min

Lab File: VW013072.D

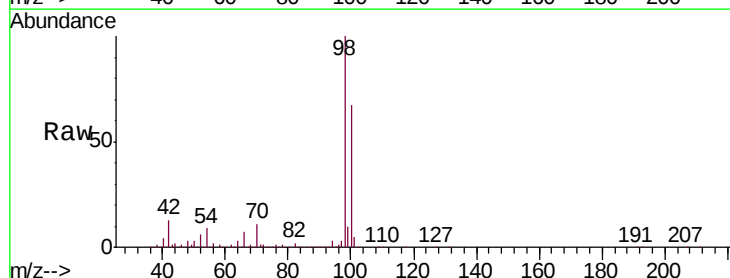
Acq: 17 Sep 2019 06:14

Tgt Ion: 98 Resp: 670915

Ion Ratio Lower Upper

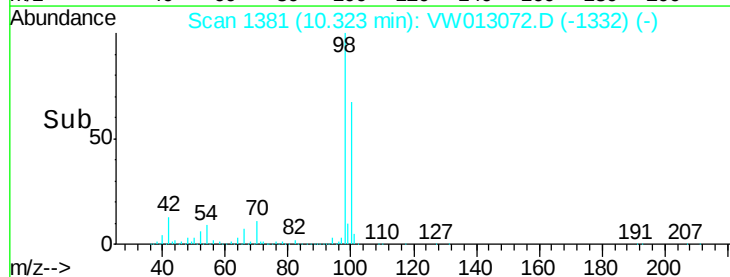
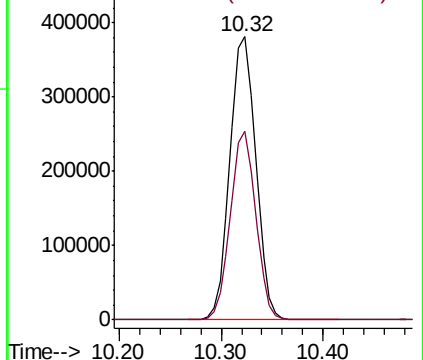
98 100

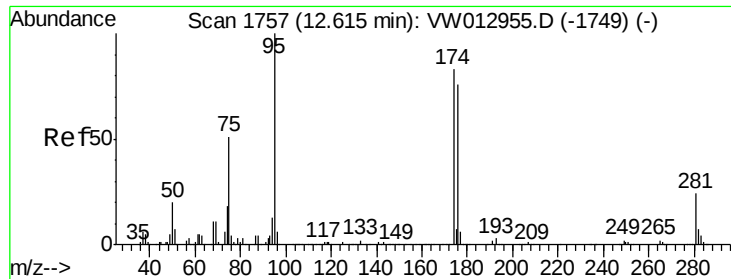
100 65.1 52.1 78.1



Abundance Ion 98.00 (97.70 to 98.70): VW

Ion 100.00 (99.70 to 100.70): VW

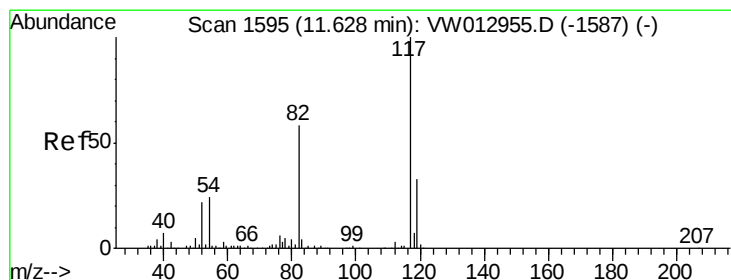
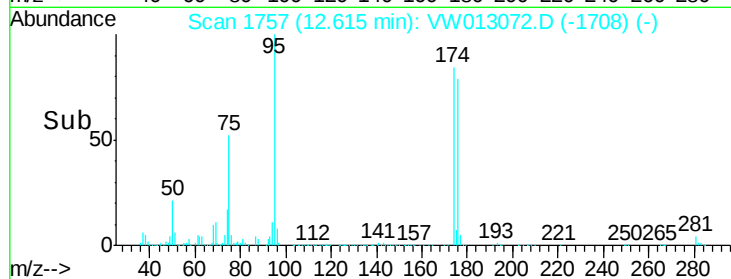
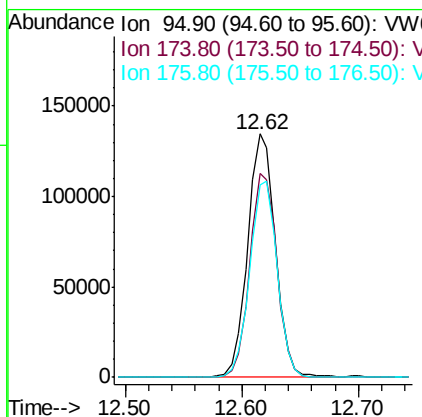
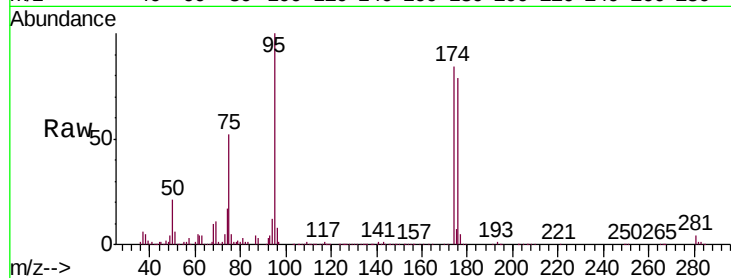




#62
4-Bromofluorobenzene
Concen: 53.777 ug/l
RT: 12.62 min Scan# 1757
Delta R.T. -0.00 min
Lab File: VW013072.D
Acq: 17 Sep 2019 06:14

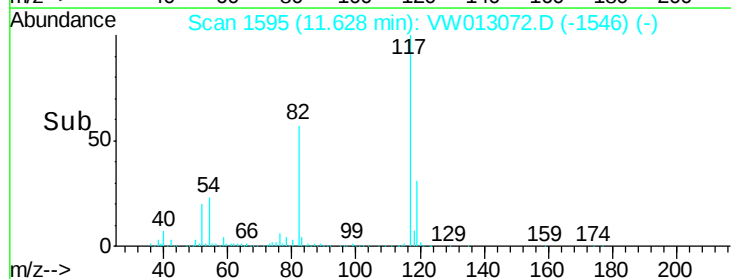
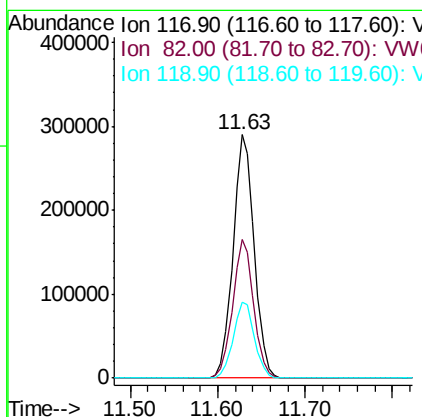
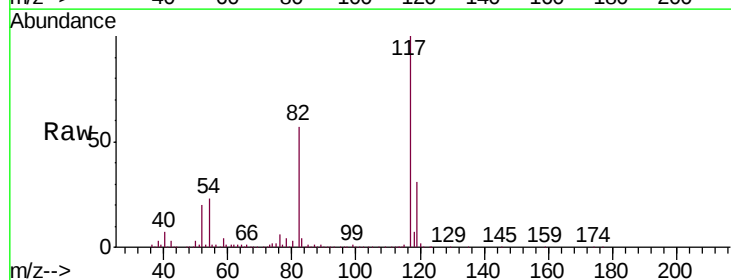
Instrument :
MSVOA_W
ClientSampleId :
RBR-200027-RBR-200049

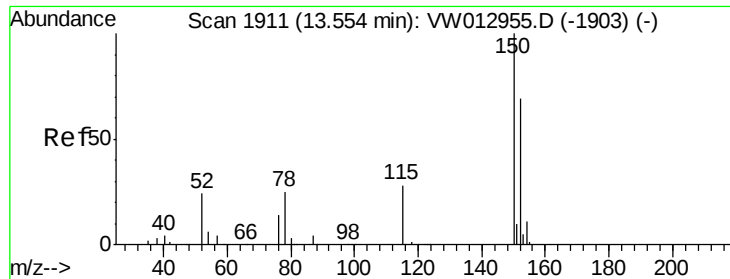
Tgt Ion: 95 Resp: 222320
Ion Ratio Lower Upper
95 100
174 82.8 0.0 170.4
176 80.4 0.0 164.6



#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.63 min Scan# 1595
Delta R.T. -0.00 min
Lab File: VW013072.D
Acq: 17 Sep 2019 06:14

Tgt Ion: 117 Resp: 487908
Ion Ratio Lower Upper
117 100
82 57.1 46.3 69.5
119 31.3 26.2 39.4





#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

RT: 13.56 min Scan# 1912

Delta R.T. 0.01 min

Lab File: VW013072.D

Acq: 17 Sep 2019 06:14

Instrument :

MSVOA_W

ClientSampleId :

RBR-200027-RBR-200049

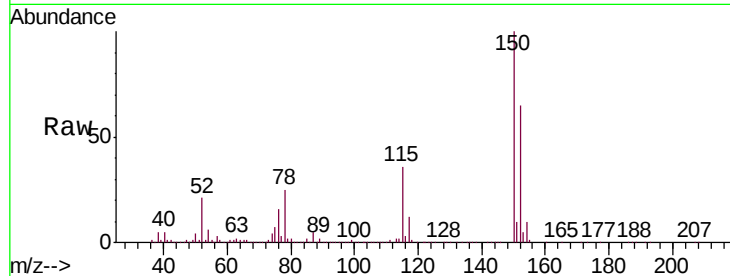
Tgt Ion: 152 Resp: 199611

Ion Ratio Lower Upper

152 100

115 56.9 28.8 86.4

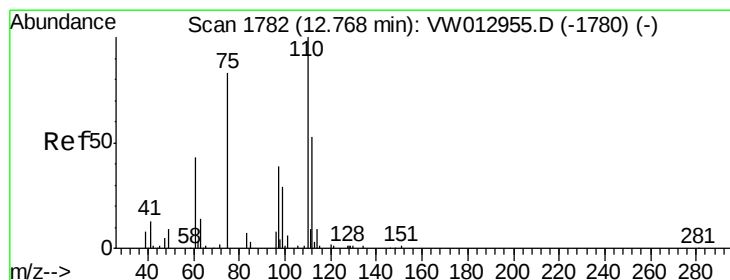
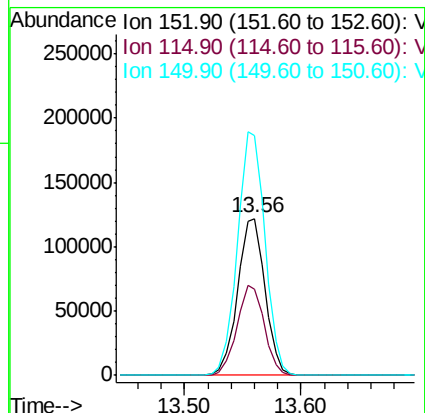
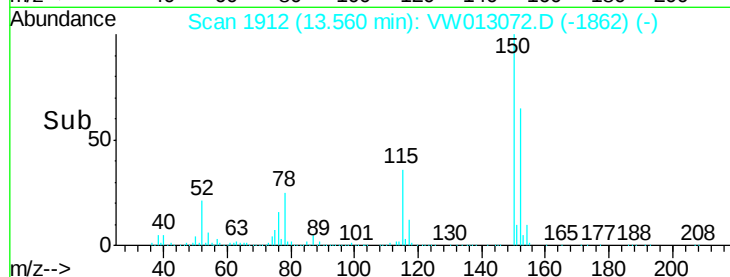
150 156.8 0.0 340.2



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: 63.878 ug/l

RT: 12.62 min Scan# 1757

Delta R.T. -0.15 min

Lab File: VW013072.D

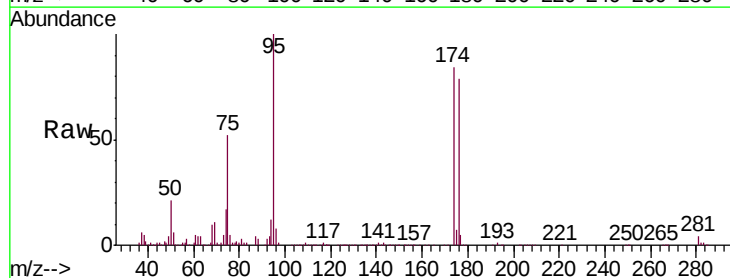
Acq: 17 Sep 2019 06:14

Tgt Ion: 75 Resp: 111686

Ion Ratio Lower Upper

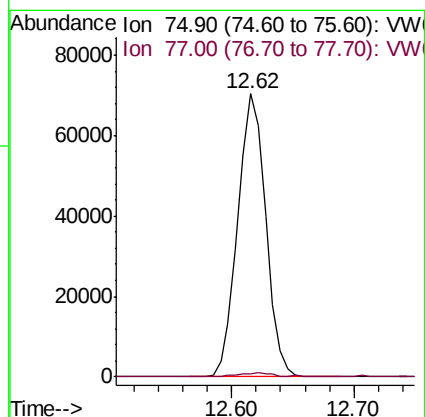
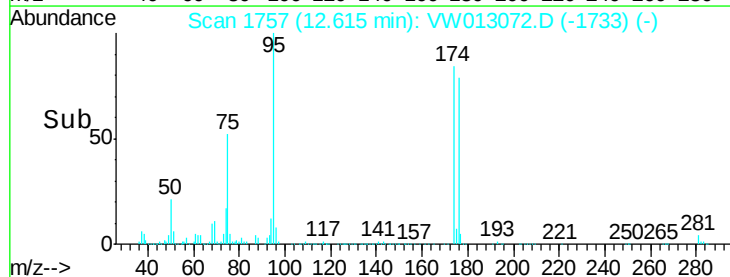
75 100

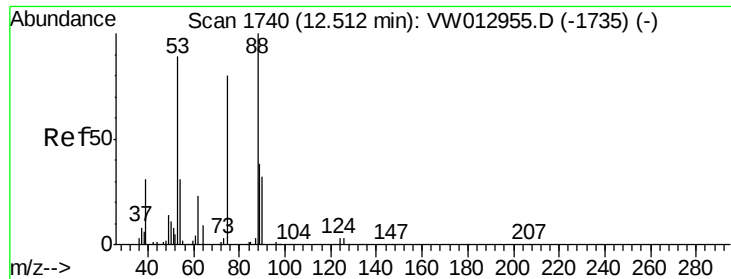
77 1.6 0.0 0.0#



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: 144.905 ug/l

RT: 12.62 min Scan# 1757

Delta R.T. 0.10 min

Lab File: VW013072.D

Acq: 17 Sep 2019 06:14

Instrument :

MSVOA_W

ClientSampleId :

RBR-200027-RBR-200049

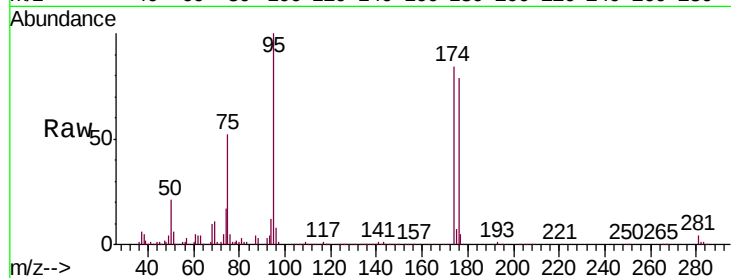
Tgt Ion: 75 Resp: 111686

Ion Ratio Lower Upper

75 100

53 0.0 85.6 128.4#

89 0.1 37.2 55.8#



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

