

Data Path : Z:\VOASRV\HPCHEM1\MSVOA W\DATA\VW091719\
 Data File : VW013086.D
 Acq On : 17 Sep 2019 13:29
 Operator : SY/VA
 Sample : K4873-01
 Misc : 5.51G/5ML/MSVOA W/SOIL
 ALS Vial : 10 Sample Multiplier: 1

Instrument :
 MSVOA_W
 ClientSampleId :

Quant Time: Sep 18 05:32:37 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	311050	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	8.84	114	471157	50.00	ug/l	0.00
63) Chlorobenzene-d5	11.63	117	395091	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.56	152	164911	50.00	ug/l	0.00

System Monitoring Compounds

33) 1,2-Dichloroethane-d4	8.31	65	160297	55.80	ug/l	0.00
Spiked Amount	50.000		Recovery	=	111.60%	
35) Dibromofluoromethane	7.88	113	127102	49.72	ug/l	0.00
Spiked Amount	50.000		Recovery	=	99.44%	
50) Toluene-d8	10.32	98	558001	55.78	ug/l	0.00
Spiked Amount	50.000		Recovery	=	111.56%	
62) 4-Bromofluorobenzene	12.62	95	180475	50.17	ug/l	0.00
Spiked Amount	50.000		Recovery	=	100.34%	

Target Compounds

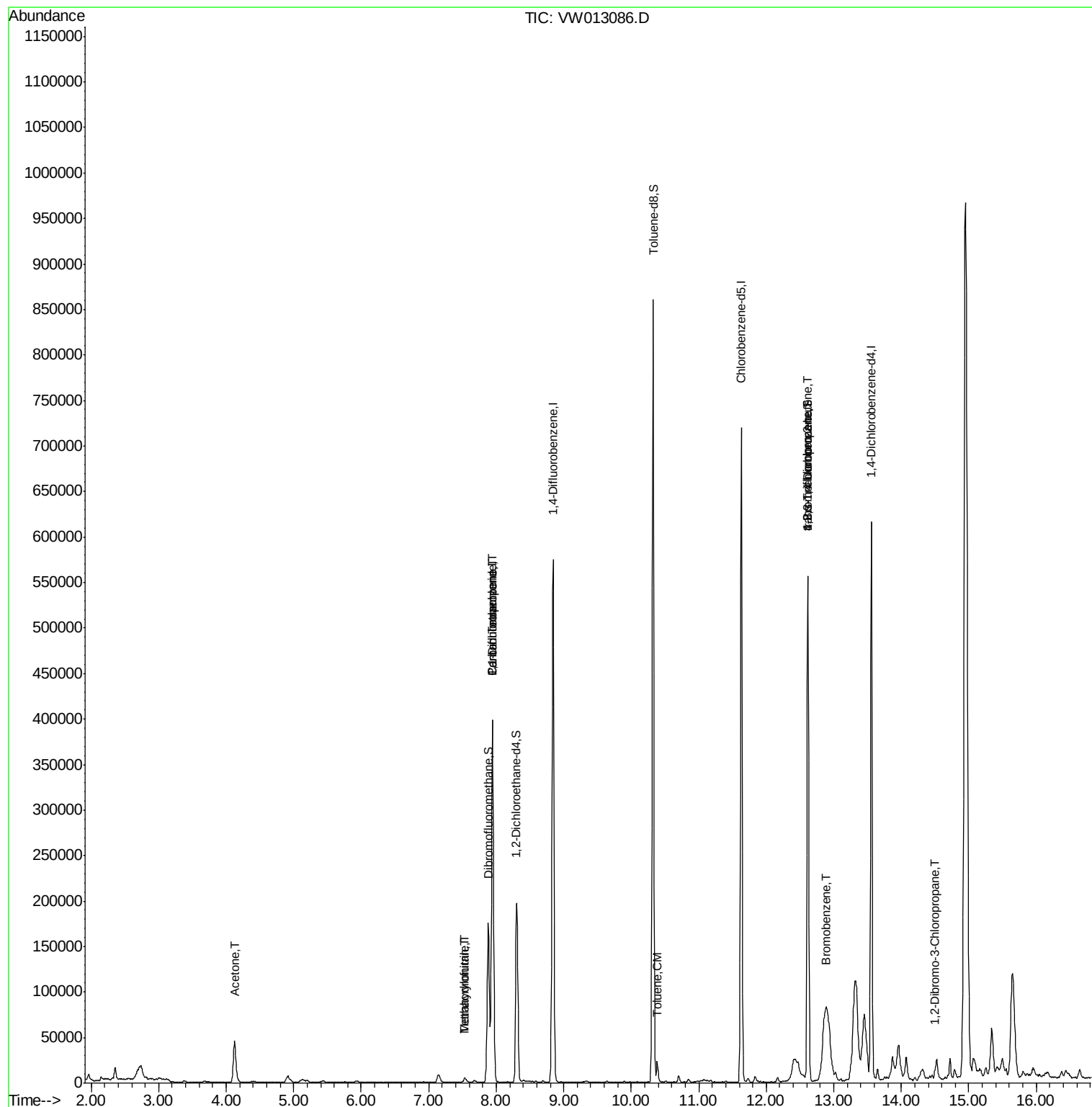
						Qvalue
2) Dichlorodifluoromethane	2.03	85	127	Below Cal	#	44
3) Chloromethane	2.20	50	292	Below Cal	#	29
11) Tert butyl alcohol	5.13	59	2636	Below Cal	#	75
13) Acrolein	3.93	56	19	Below Cal	#	15
16) Acetone	4.12	43	82521	122.404	ug/l	96
20) Methylene Chloride	4.92	84	4820	Below Cal		97
26) 2,2-Dichloropropane	7.14	77	677	Below Cal	#	55
29) Tetrahydrofuran	7.53	42	3975	7.637	ug/l	95
31) Cyclohexane	7.95	56	6595	Below Cal	#	24
36) 1,1-Dichloropropene	7.94	75	21890	5.814	ug/l #	51
38) Carbon Tetrachloride	7.95	117	29201	7.568	ug/l #	17
41) Methacrylonitrile	7.53	41	2940	2.234	ug/l #	48
52) Toluene	10.39	92	9342	1.399	ug/l	98
76) 1,2,3-Trichloropropane	12.62	75	91145	63.098	ug/l #	100
77) Bromobenzene	12.87	156	62812	24.944	ug/l #	1
81) trans-1,4-Dichloro-2-buten	12.62	75	91145	143.137	ug/l #	7
92) 1,2-Dibromo-3-Chloropropan	14.49	75	394	1.121	ug/l #	1

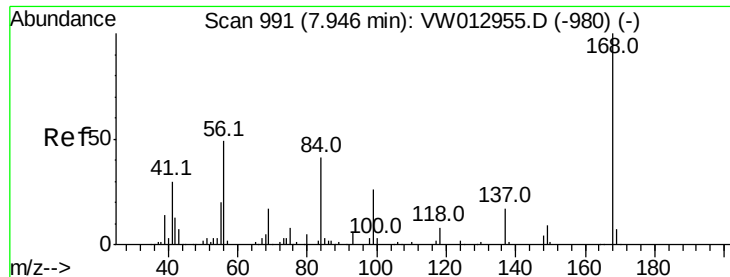
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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QLast Update : Fri Sep 13 17:26:01 2019
Response via : Initial Calibration





#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 7.95 min Scan# 991

Delta R.T. -0.00 min

Lab File: VW013086.D

Acq: 17 Sep 2019 13:29

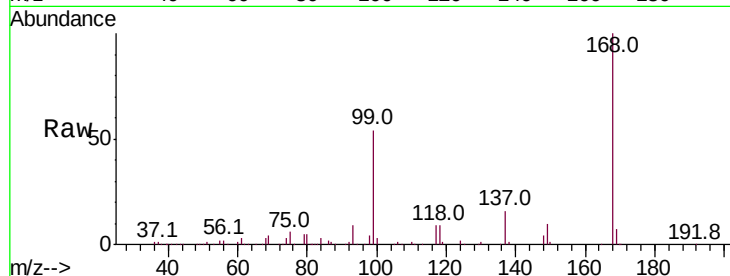
Instrument :
MSVOA_W
ClientSampleId :

Tot Ion:168 Resp: 311050

Ion Ratio Lower Upper

168 100

99 53.7 46.2 69.2



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VW

7.95

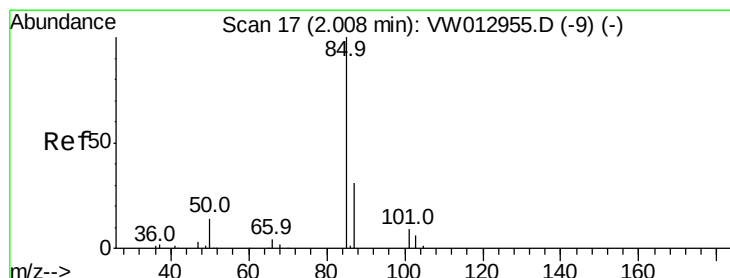
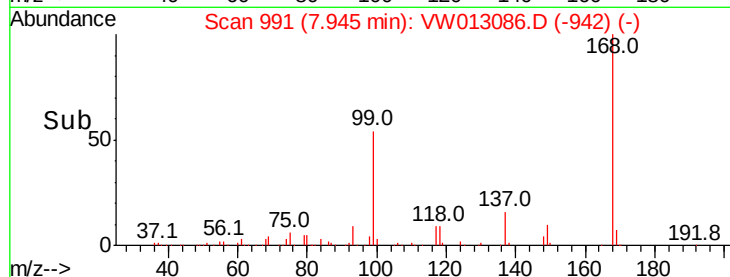
150000

100000

50000

0

Time--> 7.80 7.90 8.00 8.10



#2

Dichlorodifluoromethane

Concen: Below Cal

RT: 2.03 min Scan# 21

Delta R.T. 0.02 min

Lab File: VW013086.D

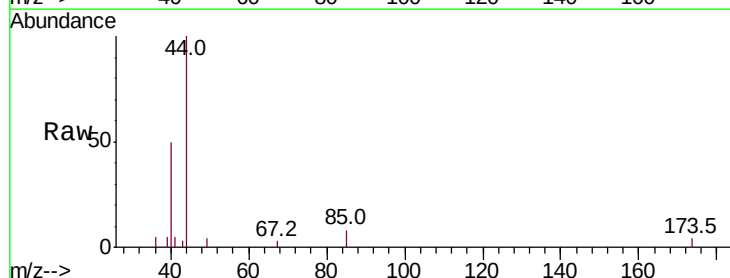
Acq: 17 Sep 2019 13:29

Tgt Ion: 85 Resp: 127

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

2.03

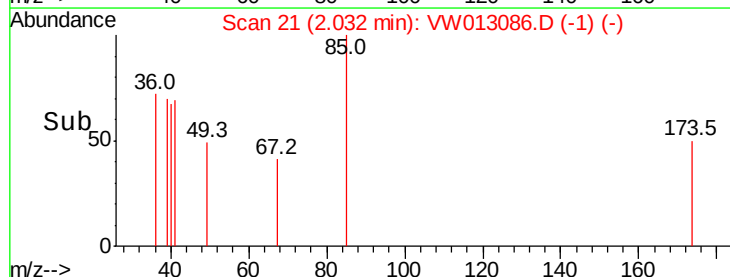
150

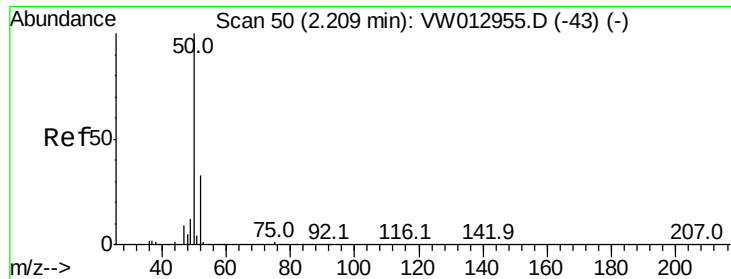
100

50

0

Time--> 1.98 2.00 2.02 2.04 2.06





#3

Chloromethane

Concen: Below Cal

RT: 2.20 min Scan# 49

Delta R.T. -0.01 min

Lab File: VW013086.D

Acq: 17 Sep 2019 13:29

Instrument :

MSVOA_W

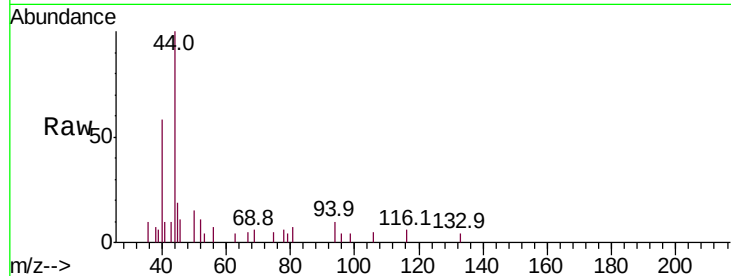
ClientSampled :

Tot Ion: 50 Resp: 292

Ion Ratio Lower Upper

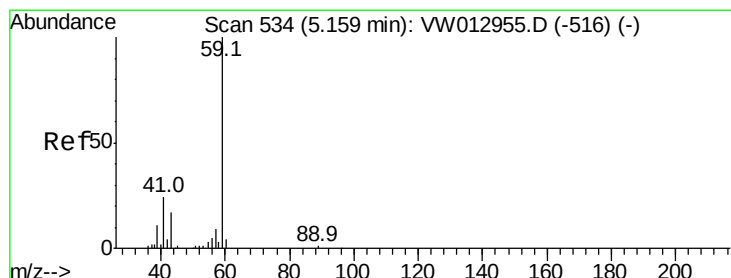
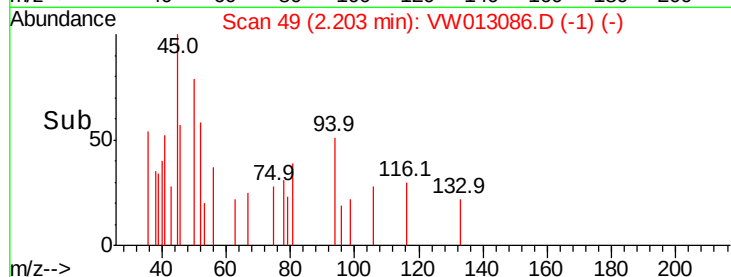
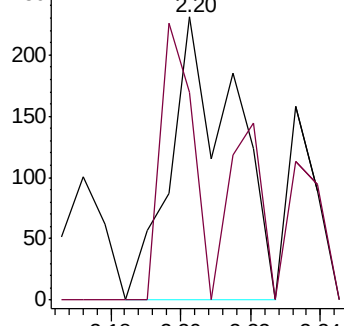
50 100

52 73.2 26.6 39.8#



Abundance Ion 49.90 (49.60 to 50.60): VW

Ion 51.90 (51.60 to 52.60): VW



#11

Tert butyl alcohol

Concen: Below Cal

RT: 5.13 min Scan# 530

Delta R.T. -0.02 min

Lab File: VW013086.D

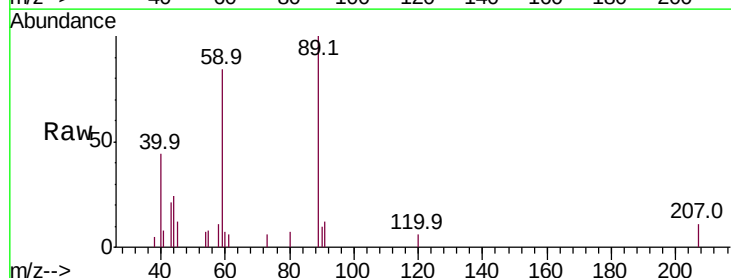
Acq: 17 Sep 2019 13:29

Tgt Ion: 59 Resp: 2636

Ion Ratio Lower Upper

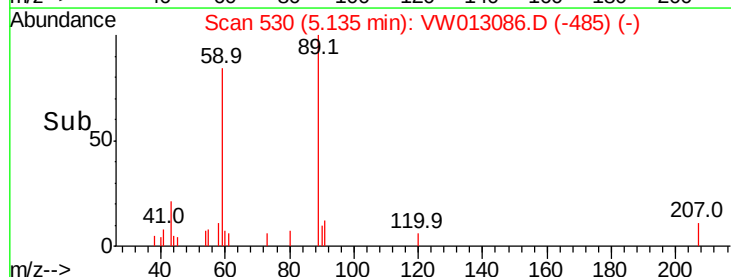
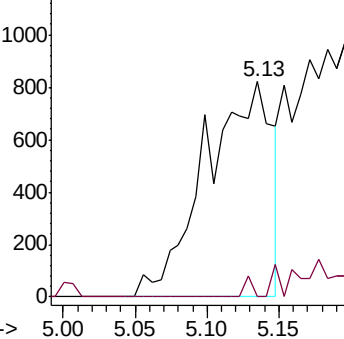
59 100

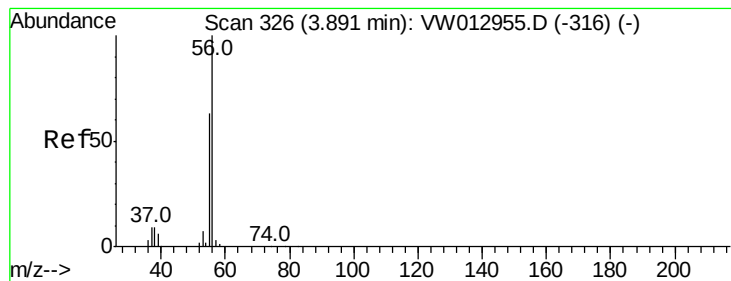
57 1.1 8.5 12.7#



Abundance Ion 59.00 (58.70 to 59.70): VW

Ion 57.00 (56.70 to 57.70): VW





#13

Acrolein

Concen: Below Cal

RT: 3.93 min Scan# 332

Delta R.T. 0.04 min

Lab File: VW013086.D

Acq: 17 Sep 2019 13:29

Instrument :

MSVOA_W

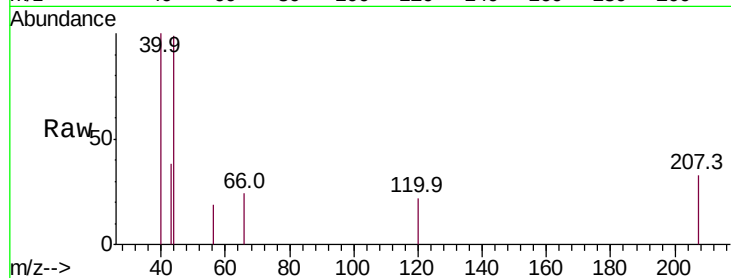
ClientSampled :

Tot Ion: 56 Resp: 19

Ion Ratio Lower Upper

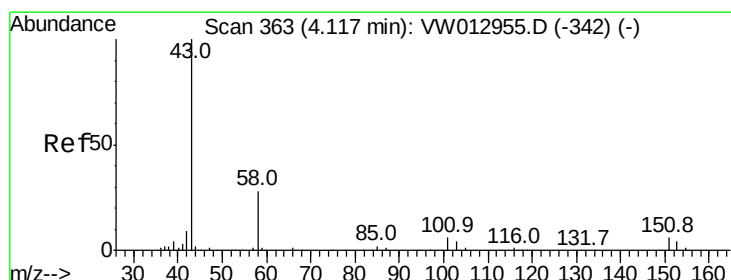
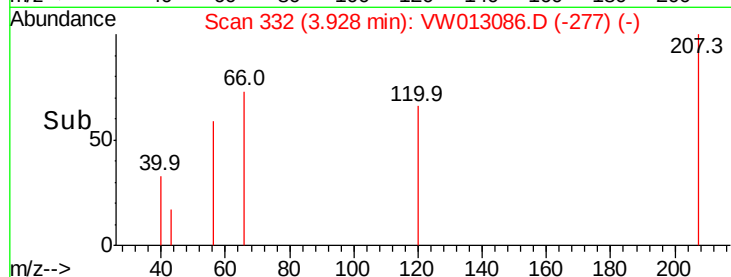
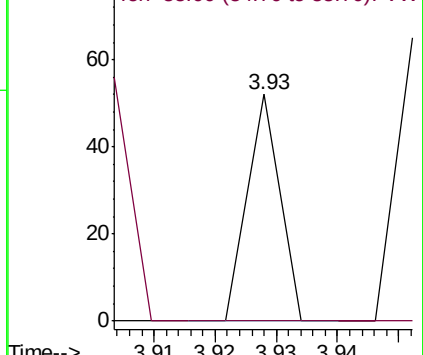
56 100

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: 122.404 ug/l

RT: 4.12 min Scan# 364

Delta R.T. 0.01 min

Lab File: VW013086.D

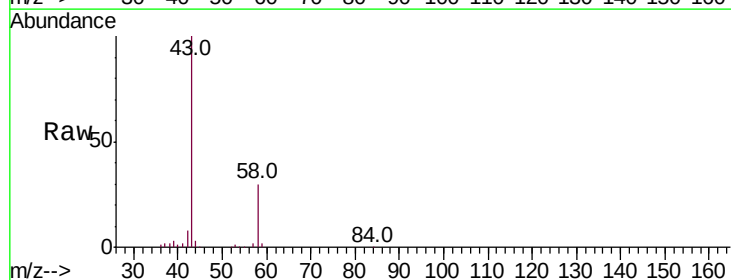
Acq: 17 Sep 2019 13:29

Tgt Ion: 43 Resp: 82521

Ion Ratio Lower Upper

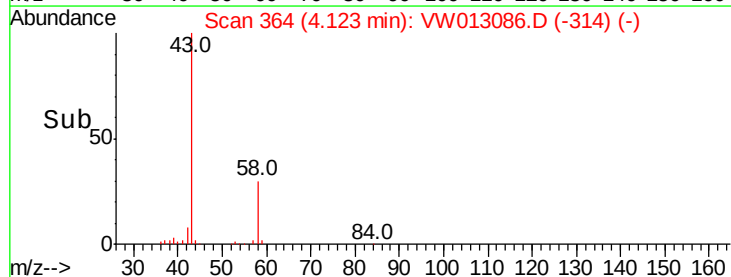
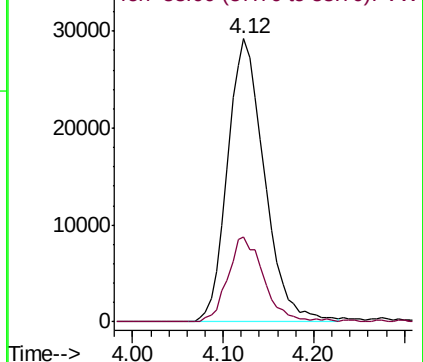
43 100

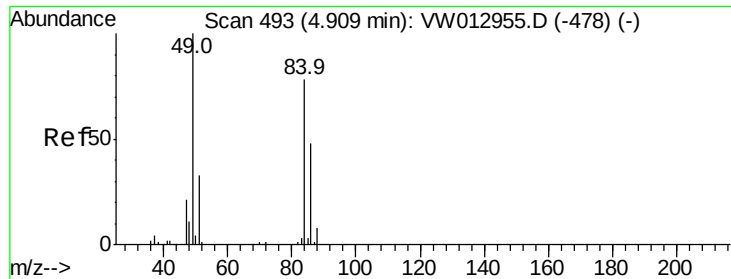
58 30.0 22.3 33.5



Abundance Ion 43.00 (42.70 to 43.70): VW

Ion 58.00 (57.70 to 58.70): VW

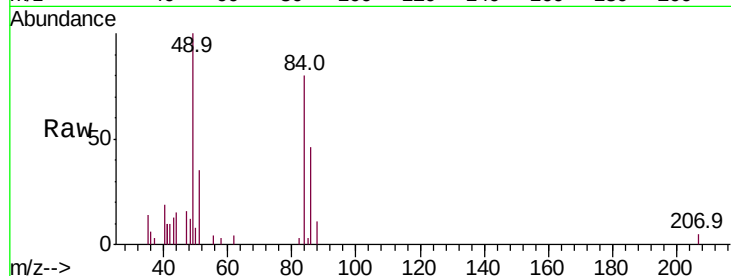




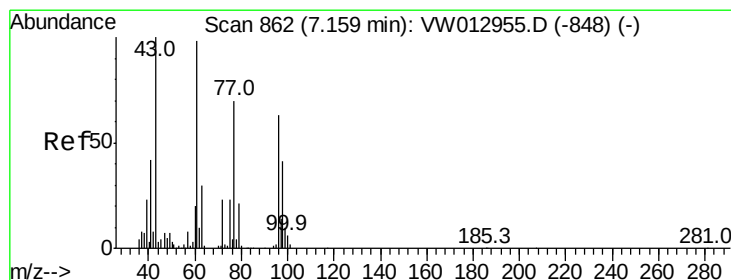
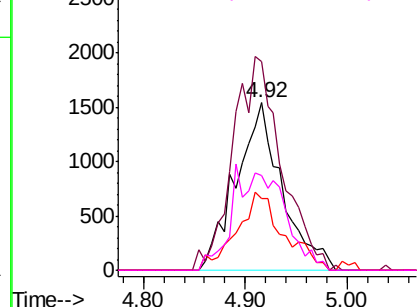
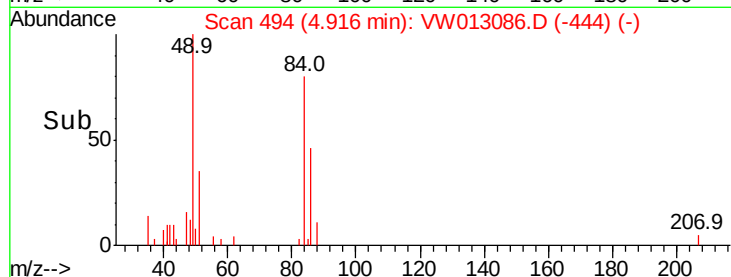
#20
Methylene Chloride
Concen: Below Cal
RT: 4.92 min Scan# 494
Delta R.T. 0.01 min
Lab File: VW013086.D
Acq: 17 Sep 2019 13:29

Instrument :
MSVOA_W
ClientSampleId :

Tot Ion: 84 Resp: 4820
Ion Ratio Lower Upper
84 100
49 125.0 102.0 153.0
51 43.1 34.0 51.0
86 57.0 48.5 72.7

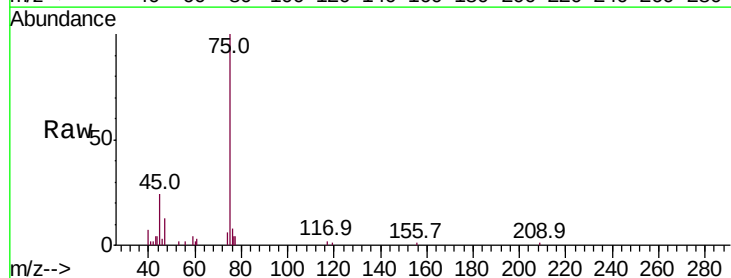


Abundance Ion 83.90 (83.60 to 84.60): VW
Ion 48.90 (48.60 to 49.60): VW
Ion 50.90 (50.60 to 51.60): VW
Ion 85.90 (85.60 to 86.60): VW

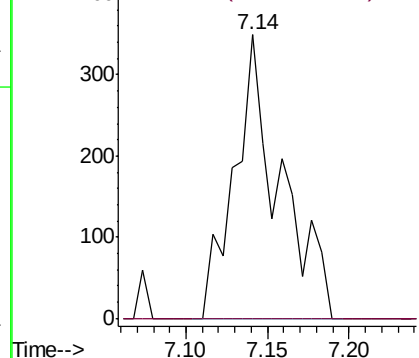
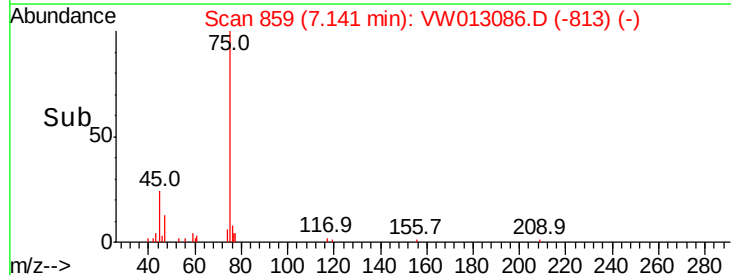


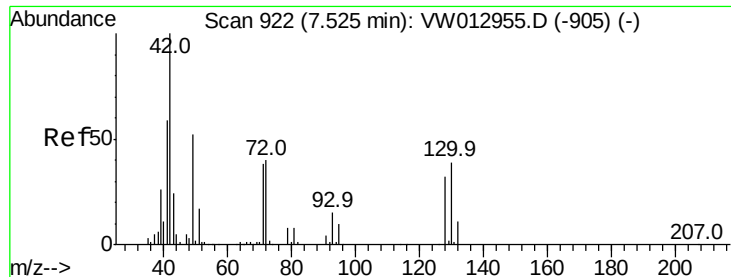
#26
2,2-Dichloropropane
Concen: Below Cal
RT: 7.14 min Scan# 859
Delta R.T. -0.02 min
Lab File: VW013086.D
Acq: 17 Sep 2019 13:29

Tgt Ion: 77 Resp: 677
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

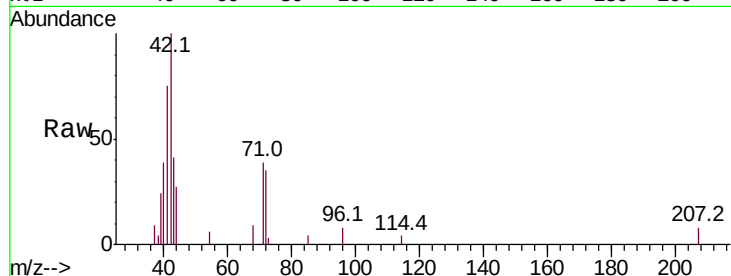




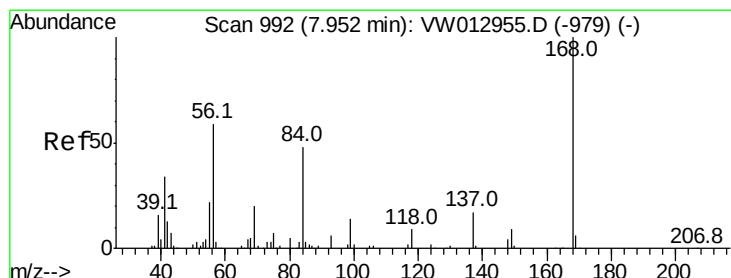
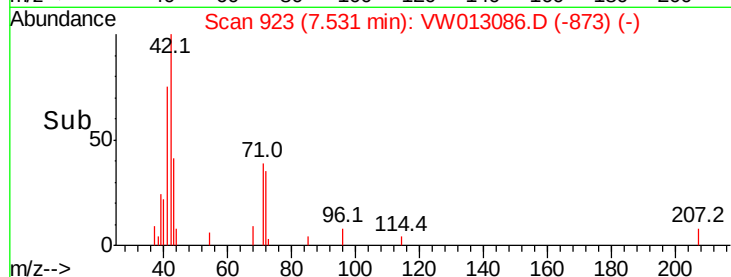
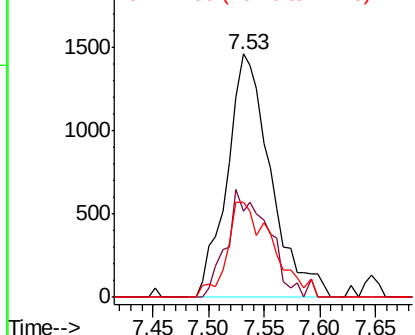
#29
Tetrahydrofuran
Concen: 7.637 ug/l
RT: 7.53 min Scan# 923
Delta R.T. 0.01 min
Lab File: VW013086.D
Acq: 17 Sep 2019 13:29

Instrument :
MSVOA_W
ClientSampleId :

Tot Ion: 42 Resp: 3975
Ion Ratio Lower Upper
42 100
72 41.5 31.4 47.0
71 40.7 29.8 44.8

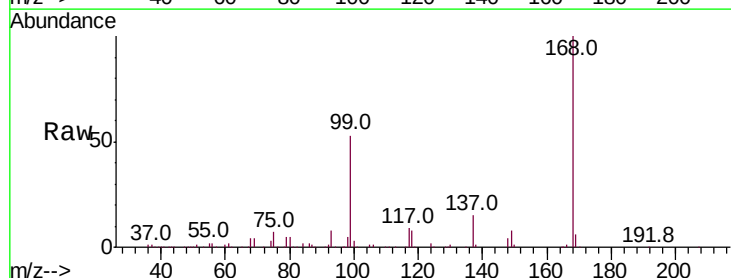


Abundance Ion 42.00 (41.70 to 42.70): VW
Ion 72.00 (71.70 to 72.70): VW
Ion 71.00 (70.70 to 71.70): VW

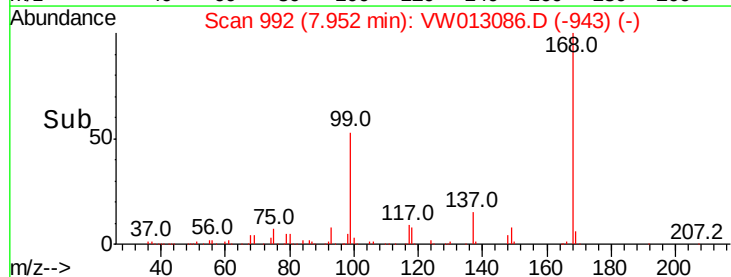
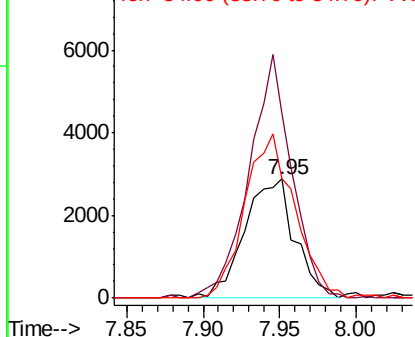


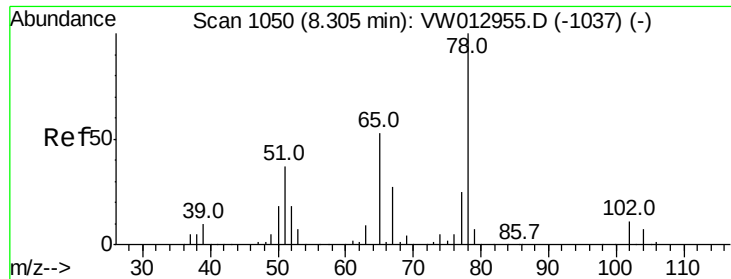
#31
Cyclohexane
Concen: Below Cal
RT: 7.95 min Scan# 992
Delta R.T. 0.00 min
Lab File: VW013086.D
Acq: 17 Sep 2019 13:29

Tgt Ion: 56 Resp: 6595
Ion Ratio Lower Upper
56 100
69 155.3 27.0 40.6#
84 100.3 66.2 99.2#



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

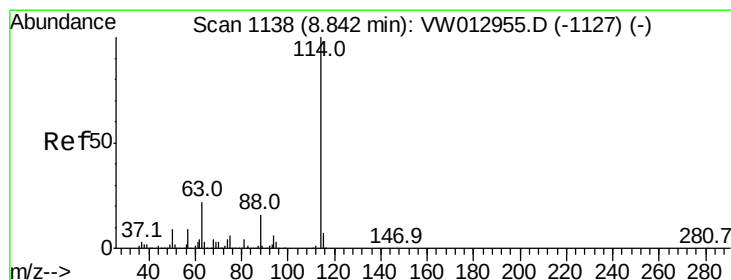
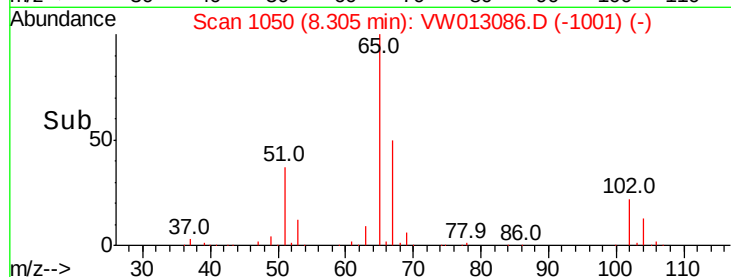
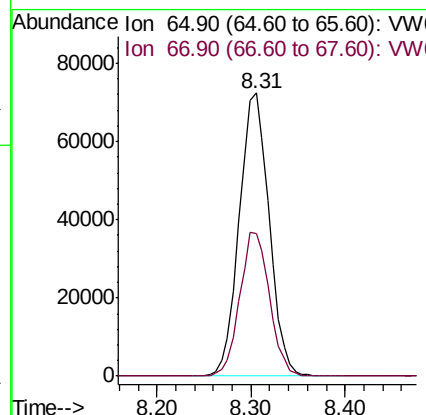
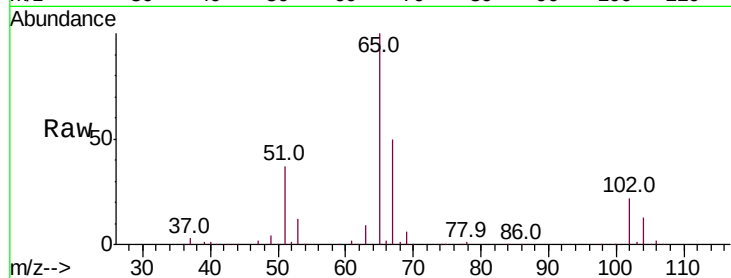




#33
 1,2-Dichloroethane-d4
 Concen: 55.799 ug/l
 RT: 8.31 min Scan# 1050
 Delta R.T. -0.00 min
 Lab File: VW013086.D
 Acq: 17 Sep 2019 13:29

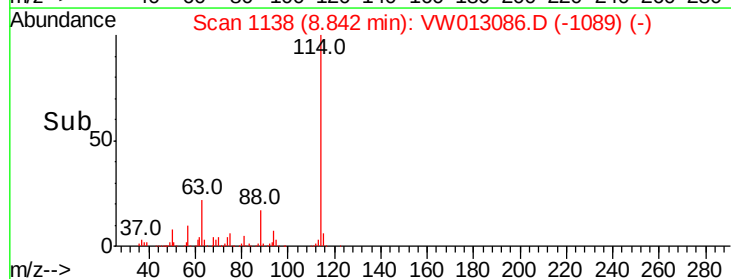
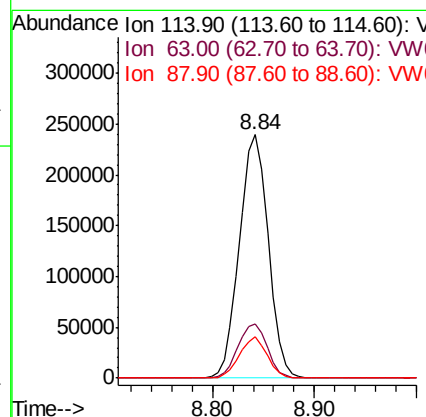
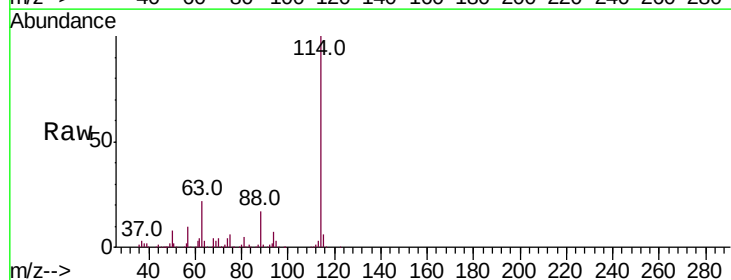
Instrument :
 MSVOA_W
 ClientSampled :

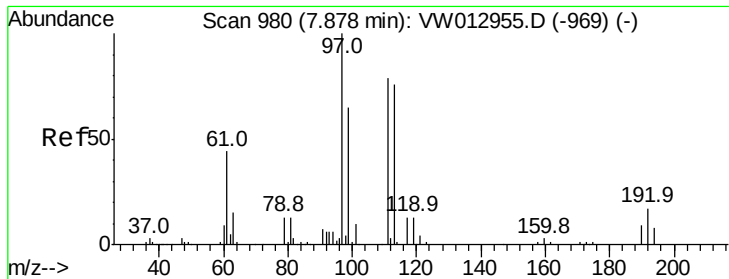
Tot Ion: 65 Resp: 160297
 Ion Ratio Lower Upper
 65 100
 67 50.7 0.0 101.2



#34
 1,4-Difluorobenzene
 Concen: 50.000 ug/l
 RT: 8.84 min Scan# 1138
 Delta R.T. -0.00 min
 Lab File: VW013086.D
 Acq: 17 Sep 2019 13:29

Tgt Ion:114 Resp: 471157
 Ion Ratio Lower Upper
 114 100
 63 22.2 0.0 43.4
 88 16.9 0.0 31.6

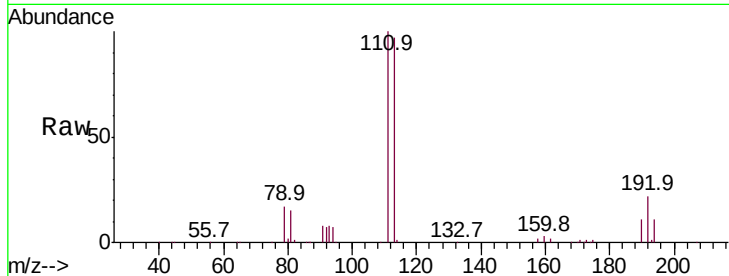




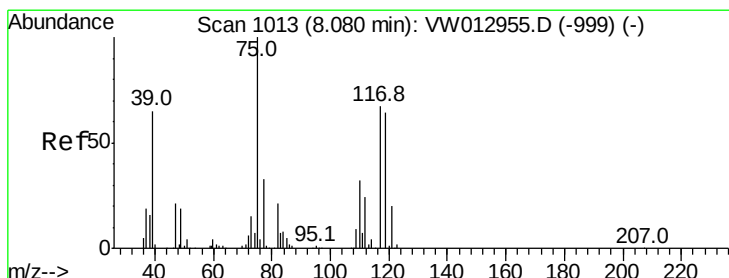
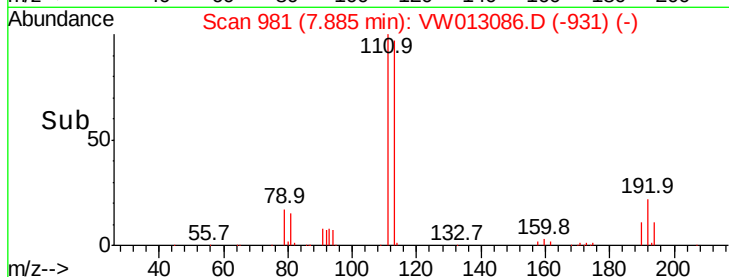
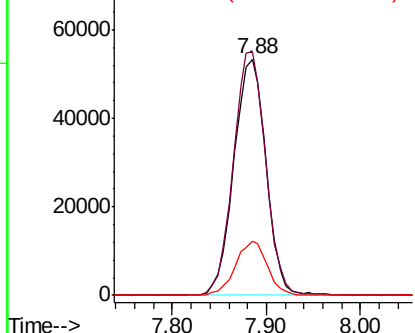
#35
 Dibromofluoromethane
 Concen: 49.716 ug/l
 RT: 7.88 min Scan# 981
 Delta R.T. 0.01 min
 Lab File: VW013086.D
 Acq: 17 Sep 2019 13:29

Instrument :
 MSVOA_W
 ClientSampleId :

Tot Ion	Ratio	Lower	Upper
113	100		
111	103.3	82.8	124.2
192	22.8	17.8	26.8

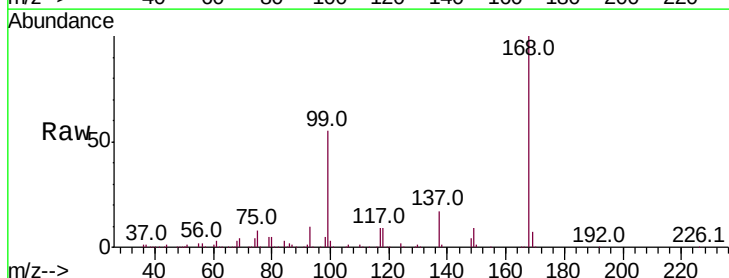


Abundance Ion 112.80 (112.50 to 113.50): V
 Ion 110.80 (110.50 to 111.50): V
 Ion 191.70 (191.40 to 192.40): V

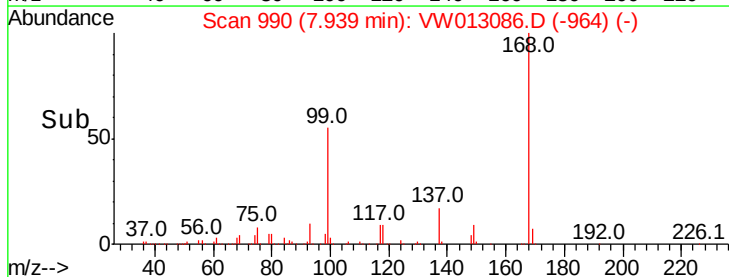
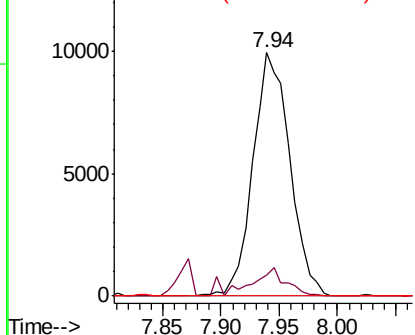


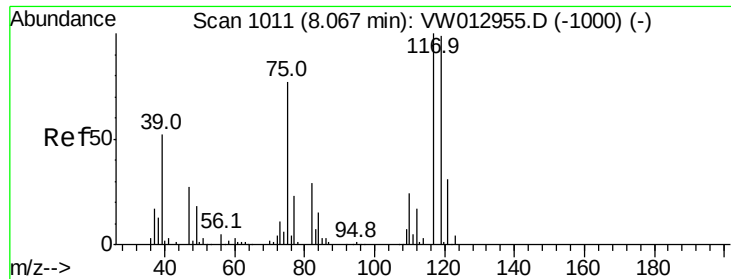
#36
 1,1-Dichloropropene
 Concen: 5.814 ug/l
 RT: 7.94 min Scan# 990
 Delta R.T. -0.14 min
 Lab File: VW013086.D
 Acq: 17 Sep 2019 13:29

Tgt Ion	Ratio	Lower	Upper
75	100		
110	9.2	16.4	49.1#
77	0.0	25.1	37.7#



Abundance Ion 74.90 (74.60 to 75.60): VW
 Ion 109.90 (109.60 to 110.60): V
 Ion 76.90 (76.60 to 77.60): VW

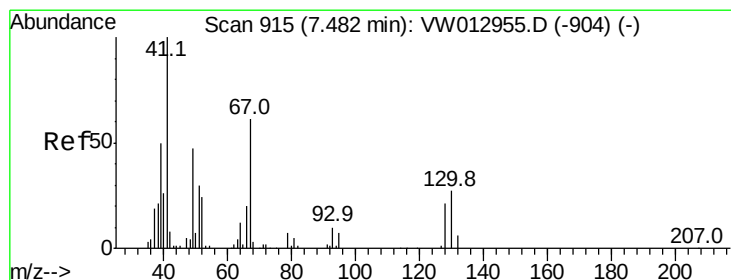
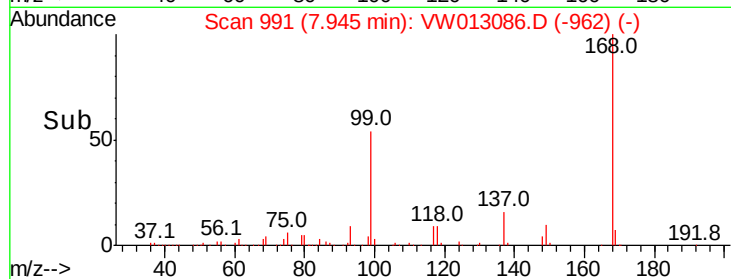
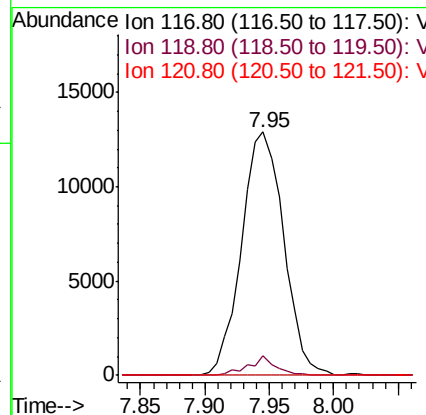
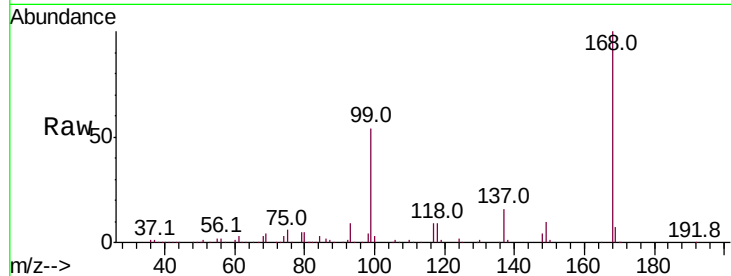




#38
Carbon Tetrachloride
Concen: 7.568 ug/l
RT: 7.95 min Scan# 991
Delta R.T. -0.12 min
Lab File: VW013086.D
Acq: 17 Sep 2019 13:29

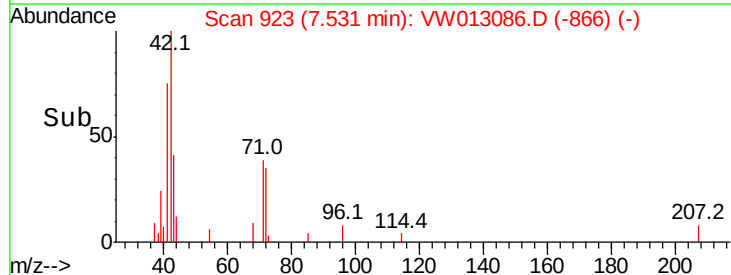
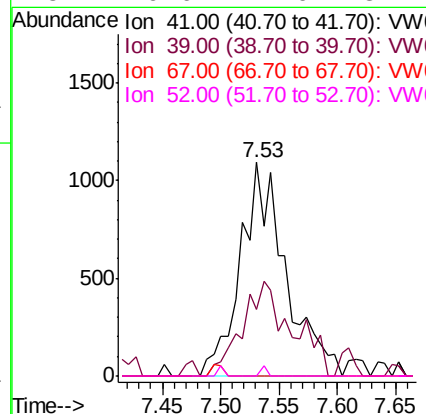
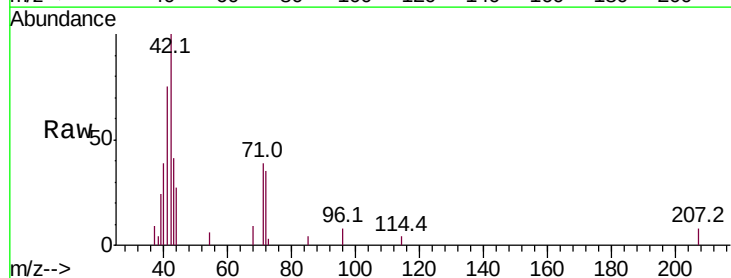
Instrument :
MSVOA_W
ClientSampleId :

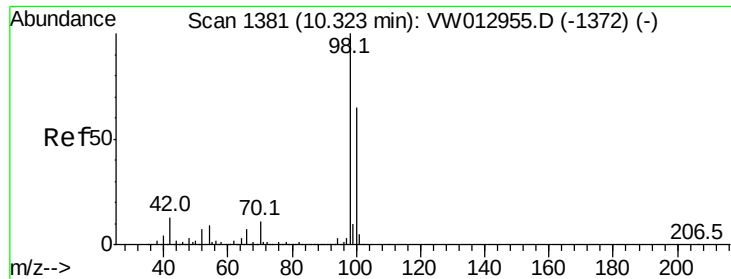
Tot Ion:117 Resp: 29201
Ion Ratio Lower Upper
117 100
119 8.3 79.4 119.0#
121 0.0 24.6 36.8#



#41
Methacrylonitrile
Concen: 2.234 ug/l
RT: 7.53 min Scan# 923
Delta R.T. 0.05 min
Lab File: VW013086.D
Acq: 17 Sep 2019 13:29

Tgt Ion: 41 Resp: 2940
Ion Ratio Lower Upper
41 100
39 41.0 48.2 72.4#
67 0.0 47.5 71.3#
52 0.6 21.0 31.4#

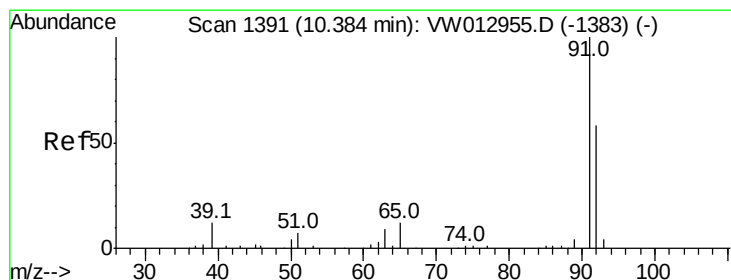
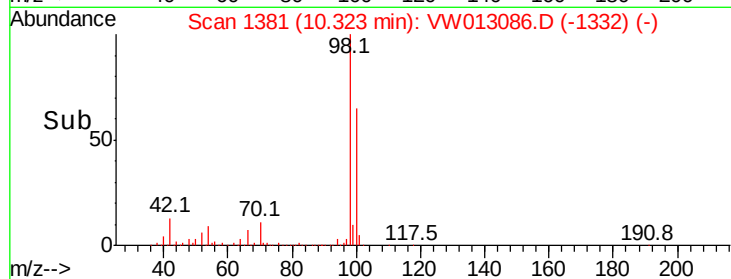
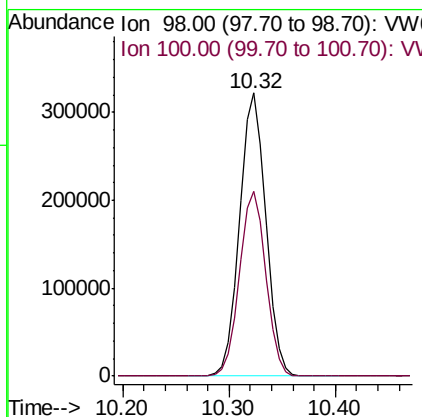
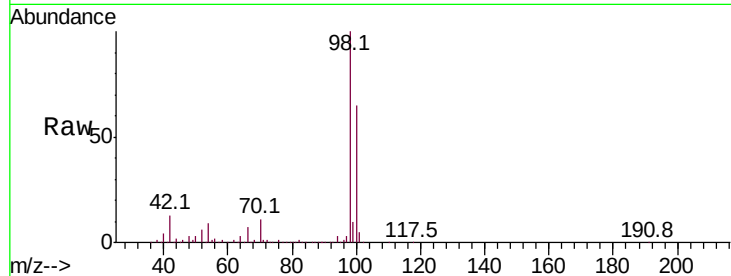




#50
Toluene-d8
Concen: 55.777 ug/l
RT: 10.32 min Scan# 1381
Delta R.T. -0.00 min
Lab File: VW013086.D
Acq: 17 Sep 2019 13:29

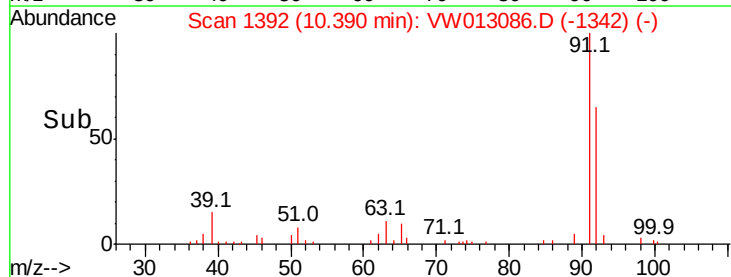
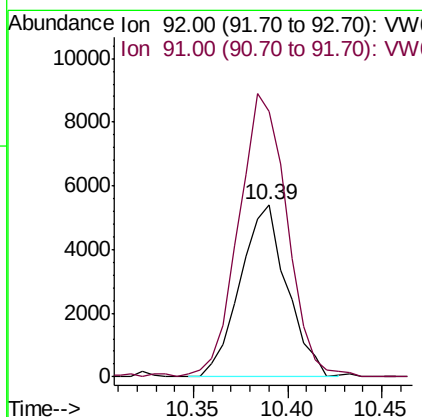
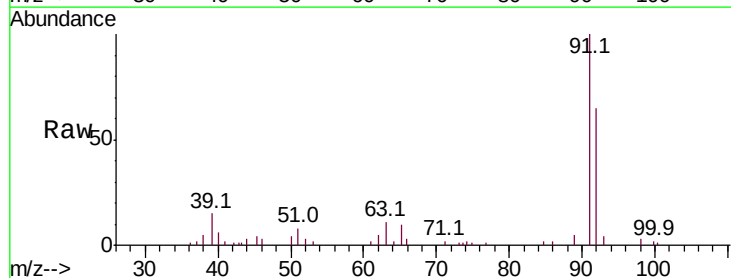
Instrument :
MSVOA_W
ClientSampleId :

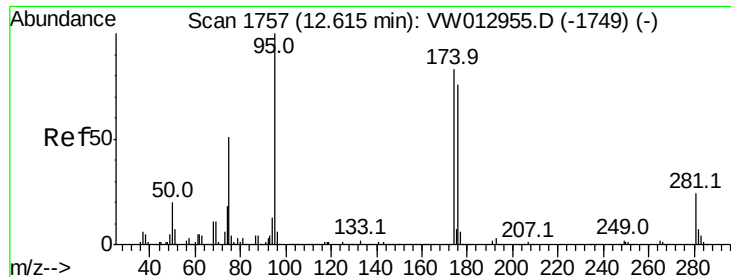
Tot Ion: 98 Resp: 558001
Ion Ratio Lower Upper
98 100
100 65.8 52.1 78.1



#52
Toluene
Concen: 1.399 ug/l
RT: 10.39 min Scan# 1392
Delta R.T. 0.01 min
Lab File: VW013086.D
Acq: 17 Sep 2019 13:29

Tgt Ion: 92 Resp: 9342
Ion Ratio Lower Upper
92 100
91 169.1 137.5 206.3

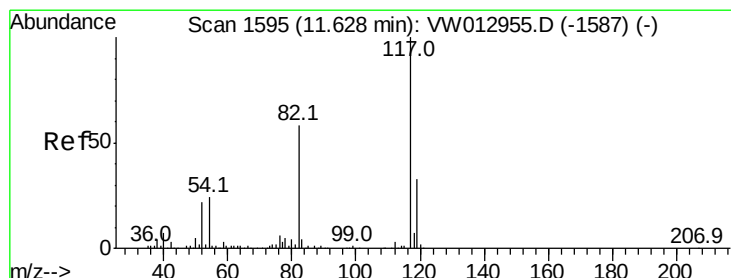
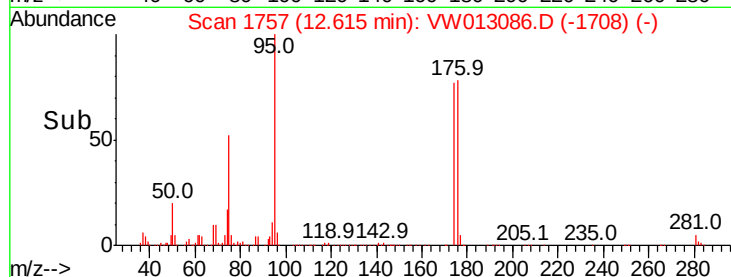
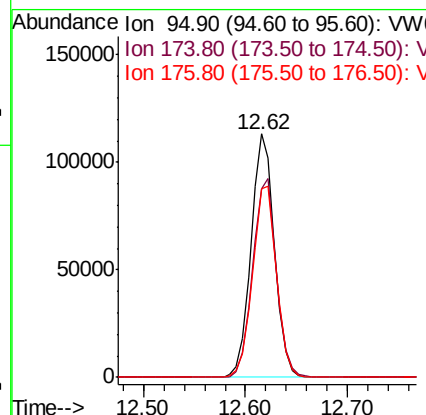
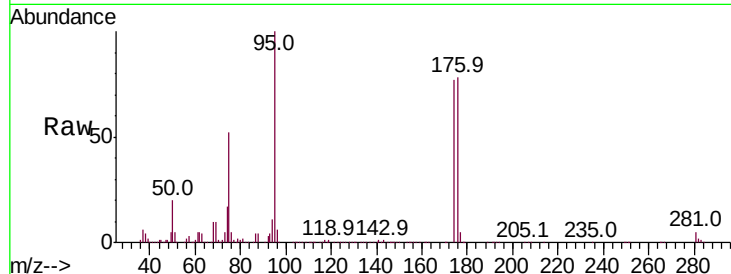




#62
4-Bromofluorobenzene
Concen: 50.170 ug/l
RT: 12.62 min Scan# 1757
Delta R.T. -0.00 min
Lab File: VW013086.D
Acq: 17 Sep 2019 13:29

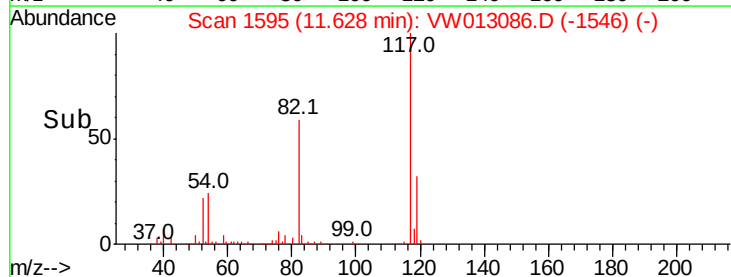
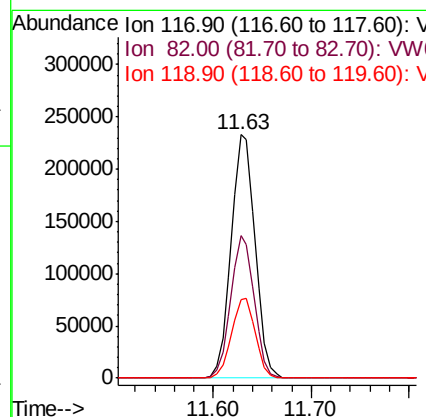
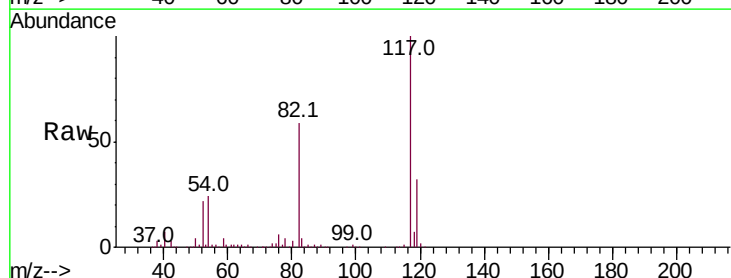
Instrument :
MSVOA_W
ClientSampleId :

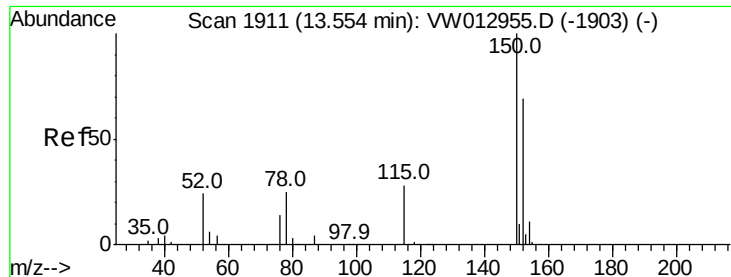
Tot Ion	Ratio	Lower	Upper
95	100		
174	82.8	0.0	170.4
176	81.0	0.0	164.6



#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.63 min Scan# 1595
Delta R.T. -0.00 min
Lab File: VW013086.D
Acq: 17 Sep 2019 13:29

Tgt Ion	Ratio	Lower	Upper
117	100		
82	58.5	46.3	69.5
119	32.1	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: VW013086.D

Acq: 17 Sep 2019 13:29

Instrument :

MSVOA_W

ClientSampleId :

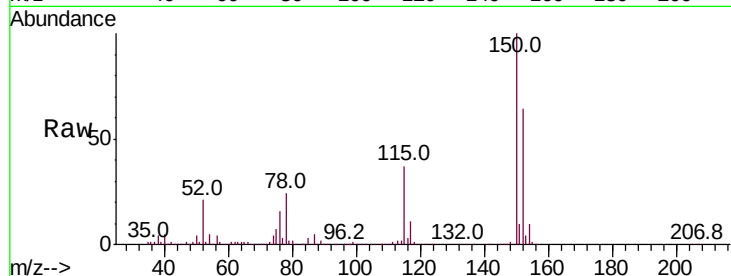
Tot Ion:152 Resp: 164911

Ion Ratio Lower Upper

152 100

115 58.5 28.8 86.4

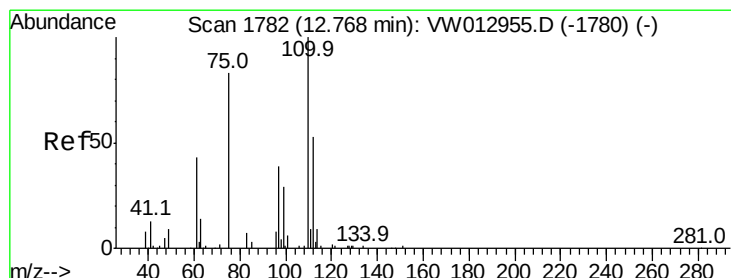
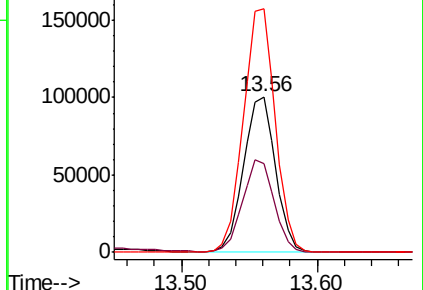
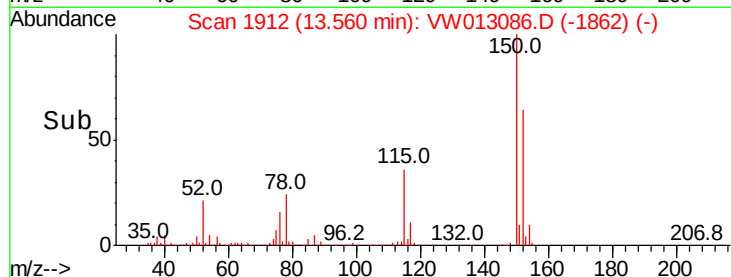
150 156.9 0.0 340.2



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: 63.098 ug/l

RT: 12.62 min Scan# 1757

Delta R.T. -0.15 min

Lab File: VW013086.D

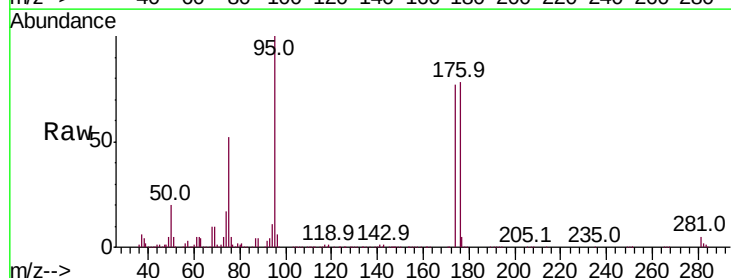
Acq: 17 Sep 2019 13:29

Tgt Ion: 75 Resp: 91145

Ion Ratio Lower Upper

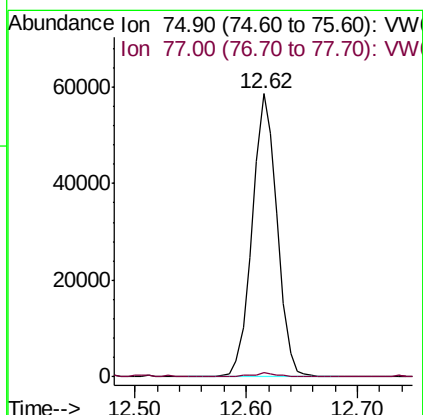
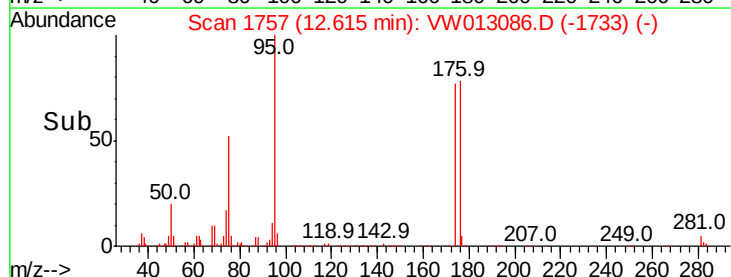
75 100

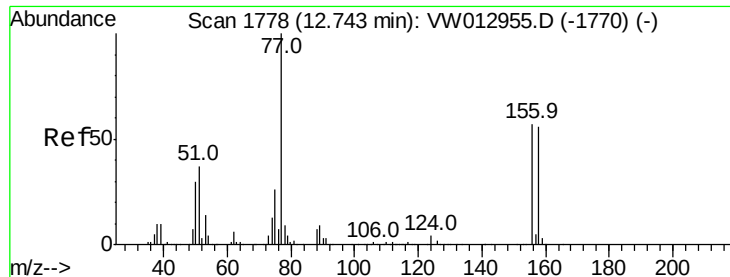
77 1.6 0.0 0.0#



Abundance Ion 74.90 (74.60 to 75.60): VW

Ion 77.00 (76.70 to 77.70): VW





#77

Bromobenzene

Concen: 24.944 ug/l

RT: 12.87 min Scan# 1799

Delta R.T. 0.13 min

Lab File: VW013086.D

Acq: 17 Sep 2019 13:29

Instrument :

MSVOA_W

ClientSampled :

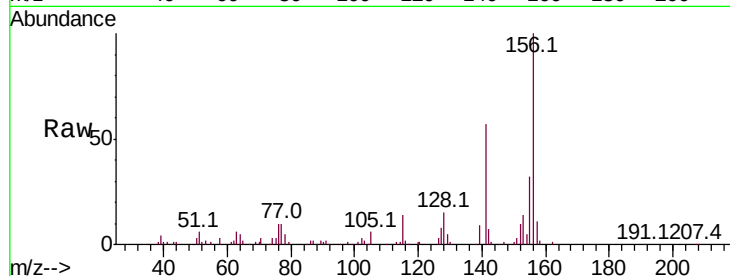
Tot Ion:156 Resp: 62812

Ion Ratio Lower Upper

156 100

77 14.7 95.2 285.6#

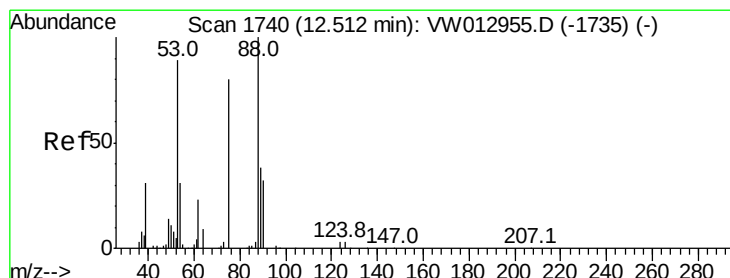
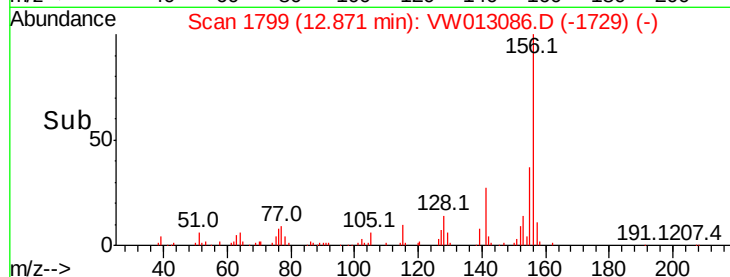
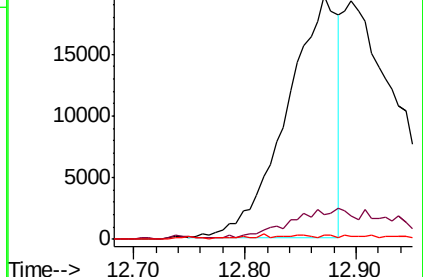
158 0.3 49.0 147.2#



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: 143.137 ug/l

RT: 12.62 min Scan# 1757

Delta R.T. 0.10 min

Lab File: VW013086.D

Acq: 17 Sep 2019 13:29

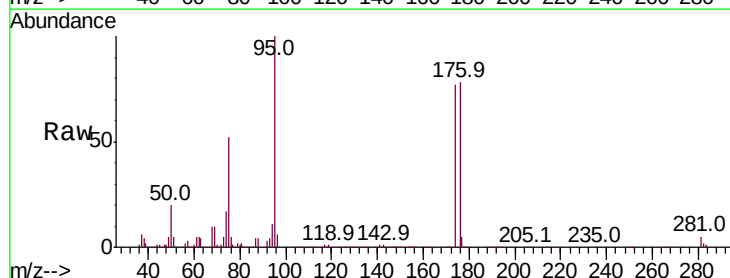
Tgt Ion: 75 Resp: 91145

Ion Ratio Lower Upper

75 100

53 0.1 85.6 128.4#

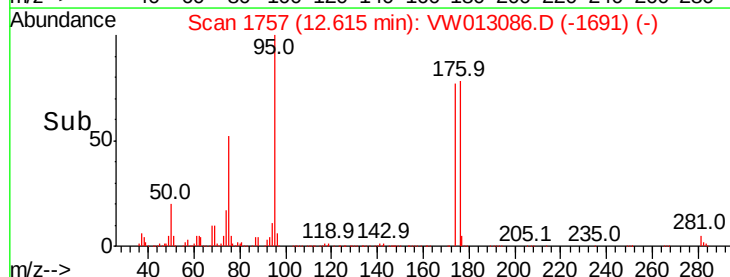
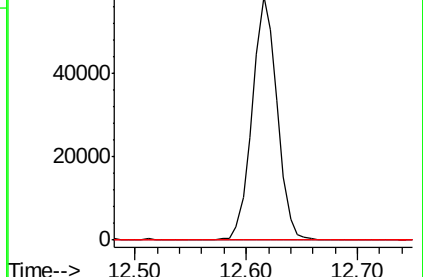
89 0.1 37.2 55.8#

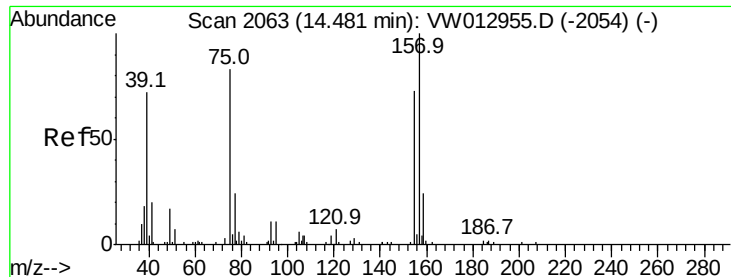


Abundance Ion 74.90 (74.60 to 75.60): VW

Ion 53.00 (52.70 to 53.70): VW

Ion 88.90 (88.60 to 89.60): VW





#92

1,2-Dibromo-3-Chloropropane

Concen: 1.121 ug/l

RT: 14.49 min Scan# 2065

Delta R.T. 0.01 min

Lab File: VW013086.D

Acq: 17 Sep 2019 13:29

Instrument :

MSVOA_W

ClientSampleId :

Tot Ion: 75 Resp: 394

Ion Ratio Lower Upper

75 100

155 0.0 43.3 129.9#

157 0.0 54.7 164.1#

