

Data Path : Z:\VOASRV\HPCHEM1\MSVOA W\DATA\VW092019\
 Data File : VW013189.D
 Acq On : 20 Sep 2019 18:26
 Operator : SY/VA
 Sample : K4669-04RE
 Misc : 5.45G/5ML/MSVOA W/SOIL
 ALS Vial : 15 Sample Multiplier: 1

Instrument :
 MSVOA_W
 ClientSampleId :

Quant Time: Sep 21 04:53:38 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_W\METHOD\82W092019S.M
 Quant Title : SW846 8260
 QLast Update : Fri Sep 20 15:58:08 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	7.95	168	313795	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	8.84	114	468346	50.00	ug/l	0.00
63) Chlorobenzene-d5	11.63	117	376447	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.55	152	148144	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	136481	53.29	ug/l	0.00
Spiked Amount			Recovery	=	106.58%	
35) Dibromofluoromethane	7.88	113	132624	51.49	ug/l	0.00
Spiked Amount			Recovery	=	102.98%	
50) Toluene-d8	10.32	98	533128	49.45	ug/l	0.00
Spiked Amount			Recovery	=	98.90%	
62) 4-Bromofluorobenzene	12.62	95	157947	42.89	ug/l	0.00
Spiked Amount			Recovery	=	85.78%	

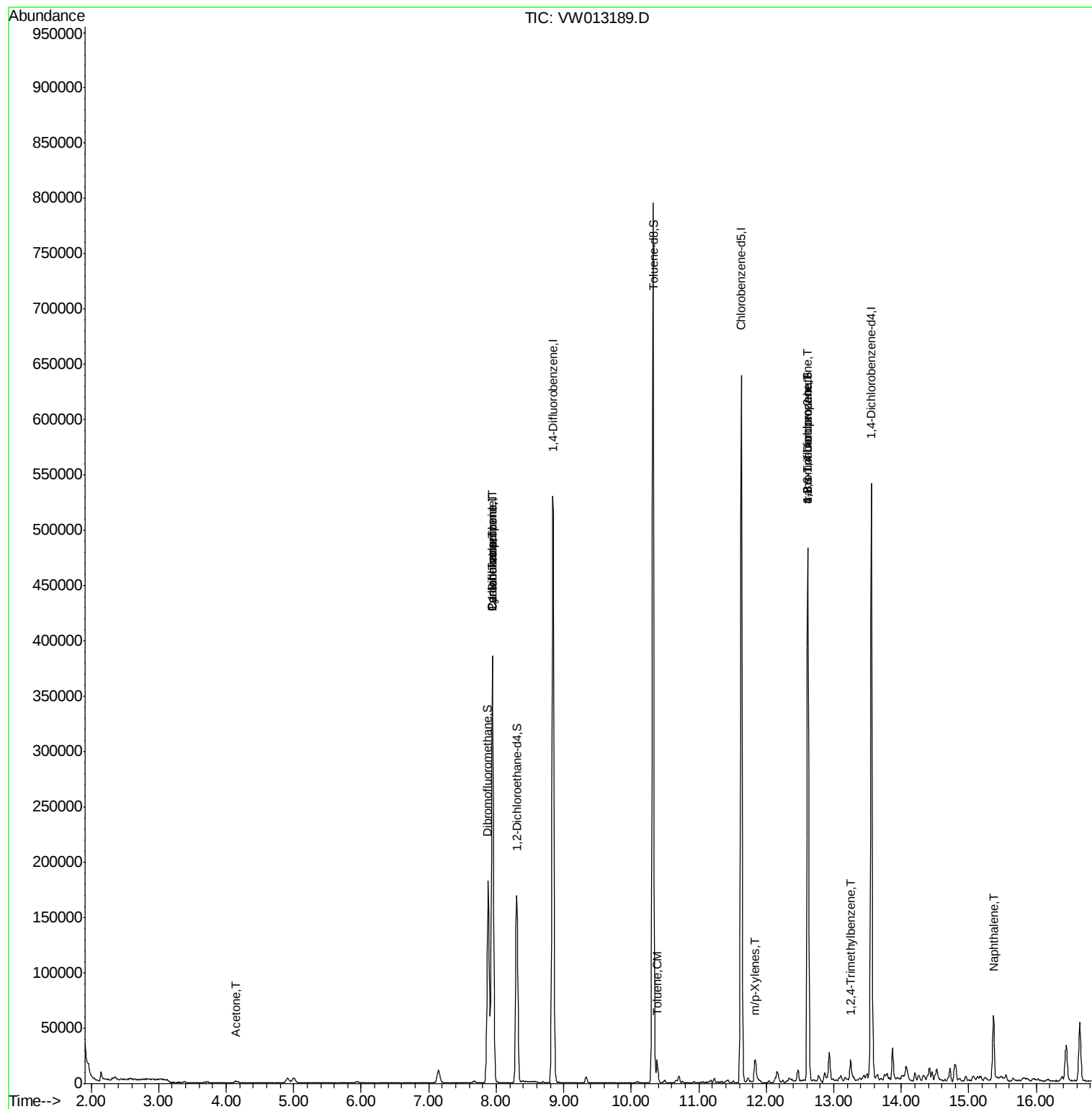
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
11) Tert butyl alcohol	5.18	59	219	Below Cal	#	73
16) Acetone	4.14	43	3192	5.527	ug/l	98
20) Methylene Chloride	4.90	84	3205	Below Cal	#	76
26) 2,2-Dichloropropane	7.14	77	609	Below Cal	#	52
31) Cyclohexane	7.94	56	5592	1.007	ug/l #	1
36) 1,1-Dichloropropene	7.94	75	21221	4.678	ug/l #	48
38) Carbon Tetrachloride	7.95	117	27487	6.759	ug/l #	19
52) Toluene	10.38	92	8407	1.037	ug/l	90
68) m/p-Xylenes	11.83	106	5985	1.103	ug/l	91
76) 1,2,3-Trichloropropane	12.62	75	76687	58.615	ug/l #	100
81) trans-1,4-Dichloro-2-buten	12.62	75	76687	131.528	ug/l #	12
84) 1,2,4-Trimethylbenzene	13.25	105	10451	1.142	ug/l	96
95) Naphthalene	15.36	128	52477	10.370	ug/l	99

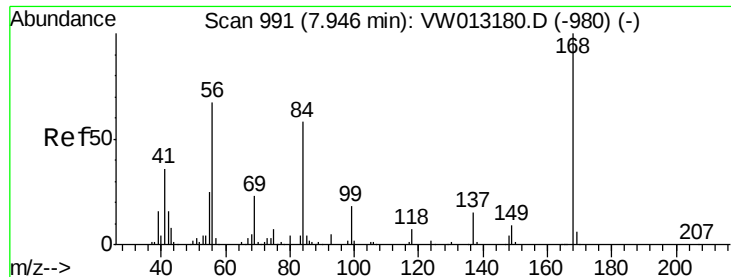
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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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: VW013189.D

Acq: 20 Sep 2019 18:26

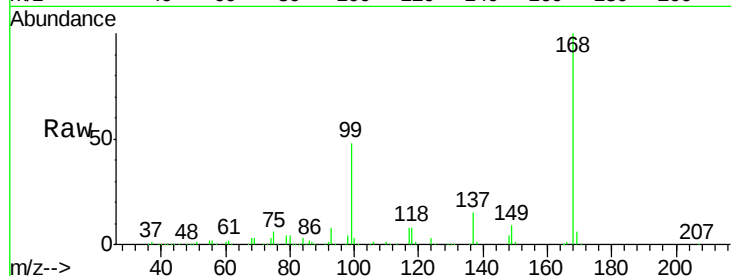
Instrument :
MSVOA_W
ClientSampleId :

Tot Ion:168 Resp: 313795

Ion Ratio Lower Upper

168 100

99 47.8 40.2 60.4



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VW

7.95

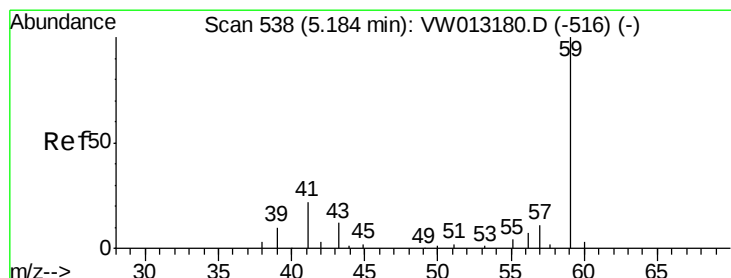
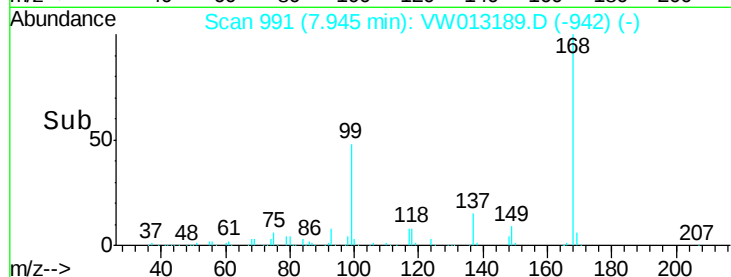
150000

100000

50000

0

Time--> 7.80 7.90 8.00



#11

Tert butyl alcohol

Concen: Below Cal

RT: 5.18 min Scan# 537

Delta R.T. -0.01 min

Lab File: VW013189.D

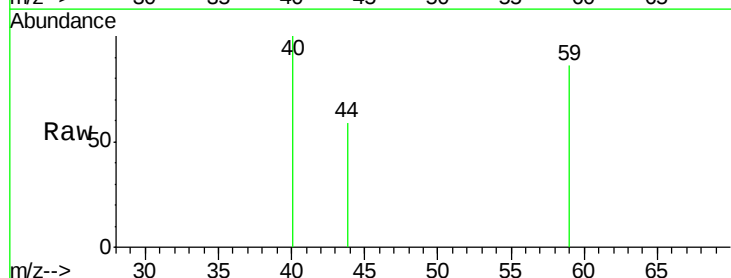
Acq: 20 Sep 2019 18:26

Tgt Ion: 59 Resp: 219

Ion Ratio Lower Upper

59 100

57 0.0 8.2 12.2#



Abundance Ion 59.00 (58.70 to 59.70): VW

Ion 57.00 (56.70 to 57.70): VW

5.18

250

200

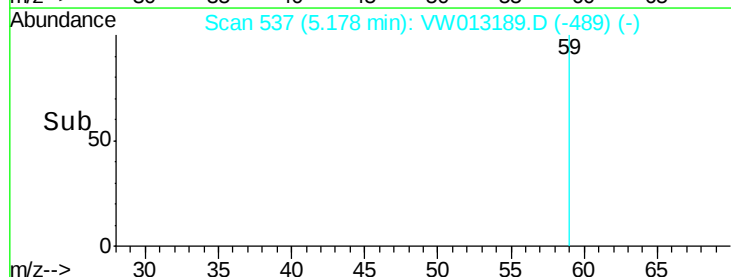
150

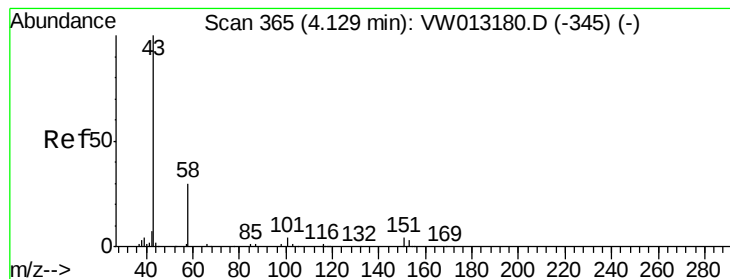
100

50

0

Time--> 5.16 5.18 5.20





#16

Acetone

Concen: 5.527 ug/l

RT: 4.14 min Scan# 367

Delta R.T. 0.01 min

Lab File: VW013189.D

Acq: 20 Sep 2019 18:26

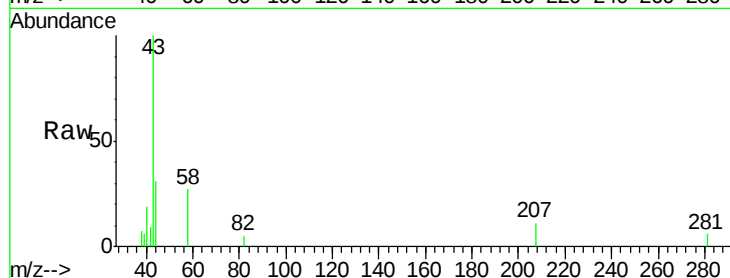
Instrument :
MSVOA_W
ClientSampleId :

Tot Ion: 43 Resp: 3192

Ion Ratio Lower Upper

43 100

58 28.8 24.1 36.1



Abundance Ion 43.00 (42.70 to 43.70): VW

Ion 58.00 (57.70 to 58.70): VW

1200

1000

800

600

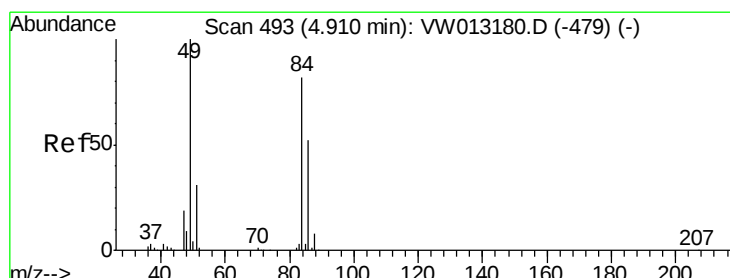
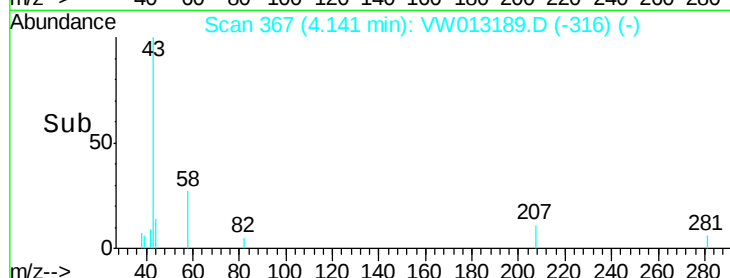
400

200

0

4.05 4.10 4.15 4.20

Time-->



#20

Methylene Chloride

Concen: Below Cal

RT: 4.90 min Scan# 491

Delta R.T. -0.01 min

Lab File: VW013189.D

Acq: 20 Sep 2019 18:26

Tgt Ion: 84 Resp: 3205

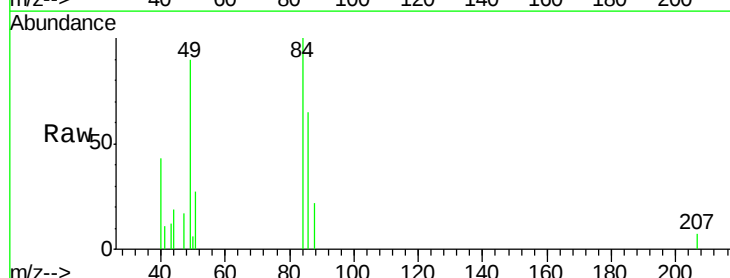
Ion Ratio Lower Upper

84 100

49 84.1 97.6 146.4#

51 21.3 30.2 45.2#

86 64.7 50.6 76.0



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

2000

1500

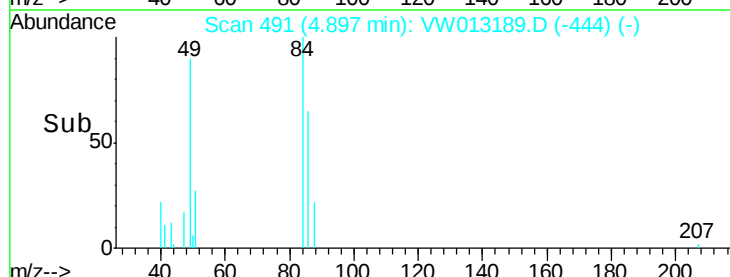
1000

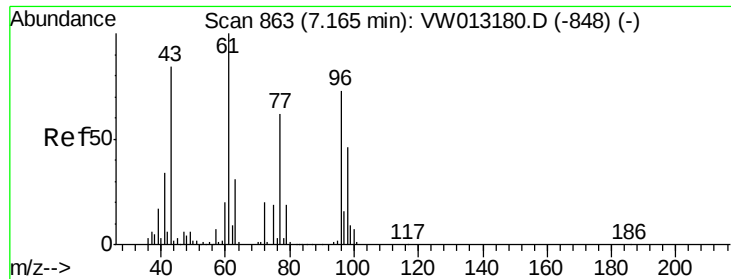
500

0

4.80 4.85 4.90 4.95 5.00

Time-->





#26

2,2-Dichloropropane

Concen: Below Cal

RT: 7.14 min Scan# 859

Delta R.T. -0.02 min

Lab File: VW013189.D

Acq: 20 Sep 2019 18:26

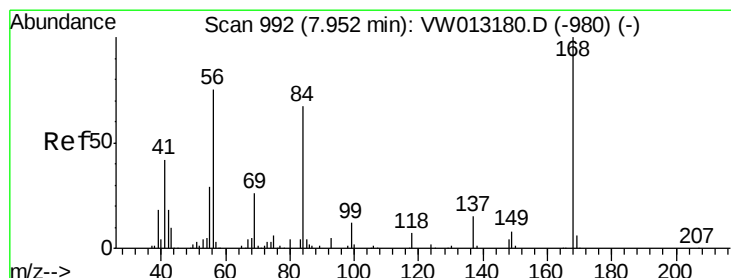
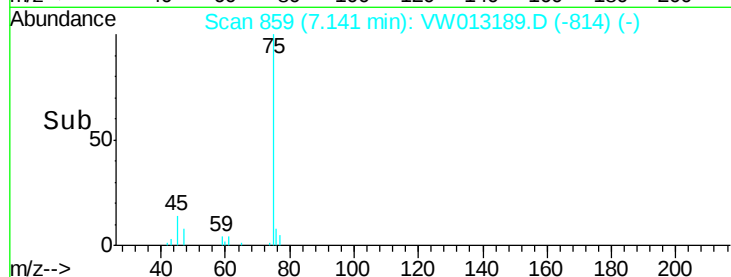
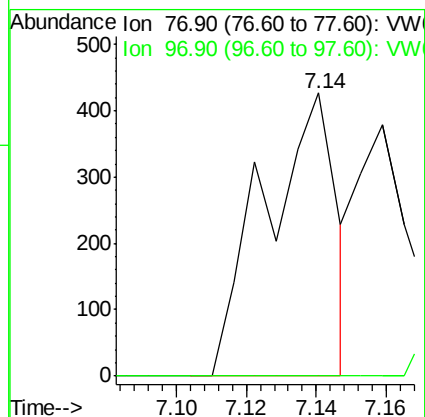
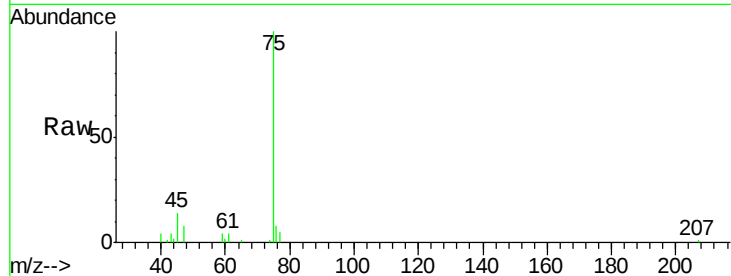
Instrument :
MSVOA_W
ClientSampleId :

Tot Ion: 77 Resp: 609

Ion Ratio Lower Upper

77 100

97 0.0 11.8 35.4#



#31

Cyclohexane

Concen: 1.007 ug/l

RT: 7.94 min Scan# 990

Delta R.T. -0.01 min

Lab File: VW013189.D

Acq: 20 Sep 2019 18:26

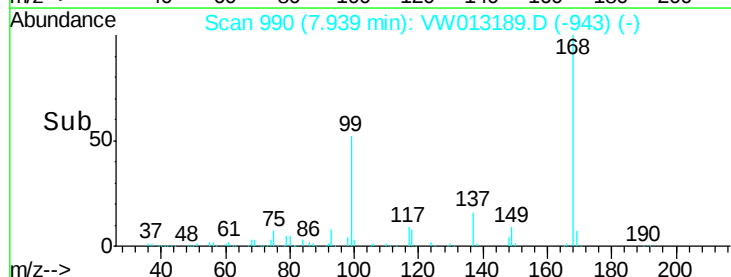
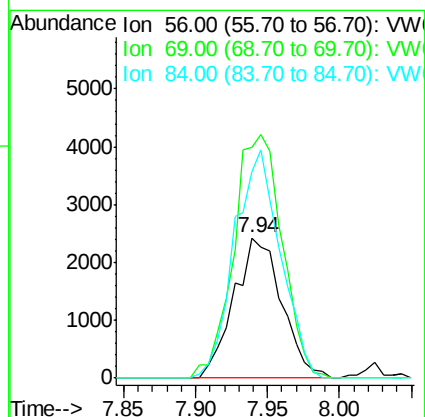
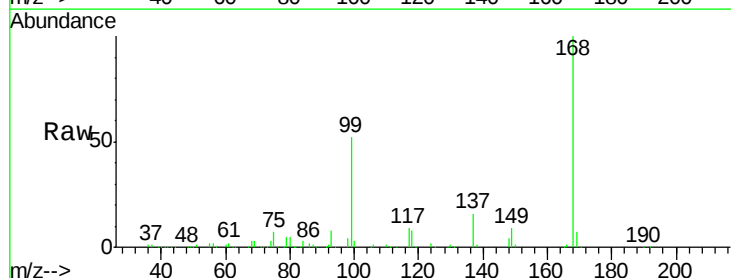
Tgt Ion: 56 Resp: 5592

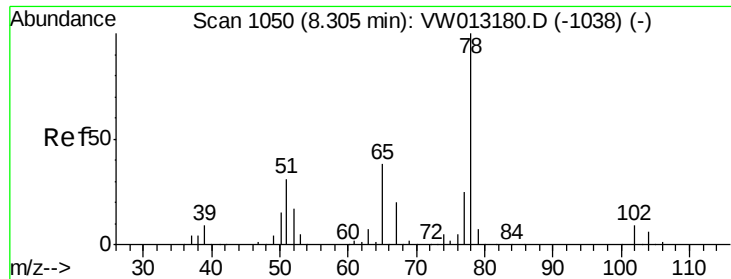
Ion Ratio Lower Upper

56 100

69 165.0 27.2 40.8#

84 147.6 70.8 106.2#

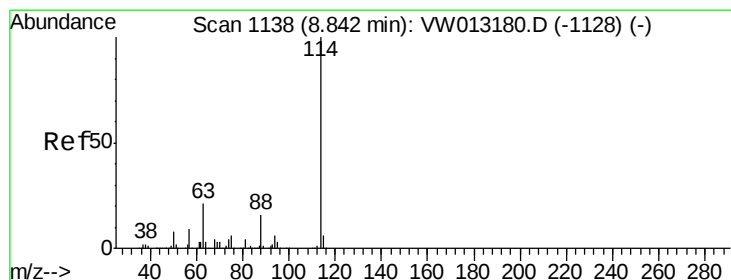
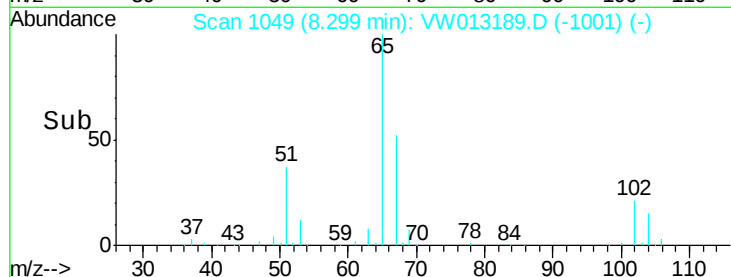
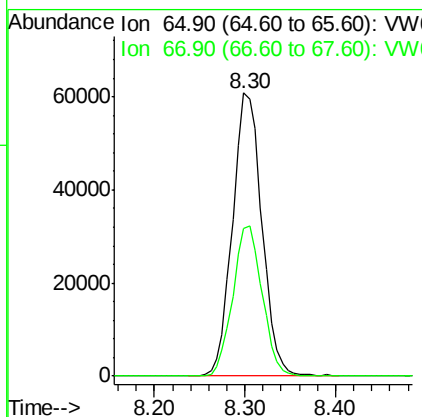
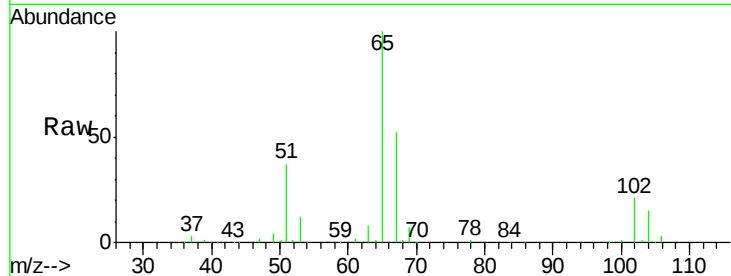




#33
 1,2-Dichloroethane-d4
 Concen: 53.292 ug/l
 RT: 8.30 min Scan# 1049
 Delta R.T. -0.01 min
 Lab File: VW013189.D
 Acq: 20 Sep 2019 18:26

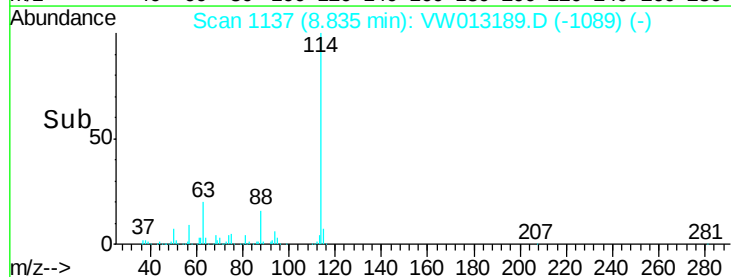
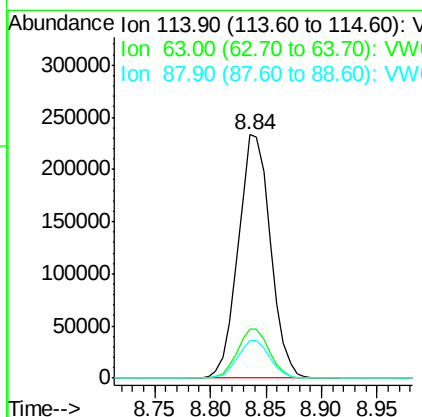
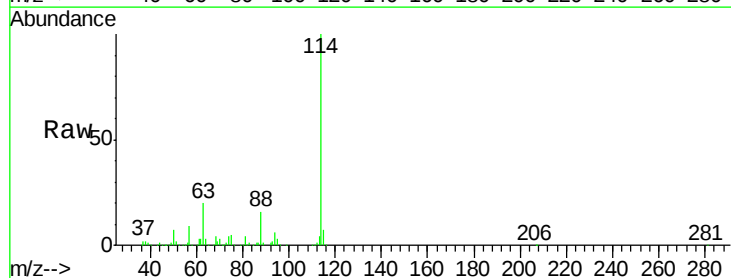
Instrument :
 MSVOA_W
 ClientSampleId :

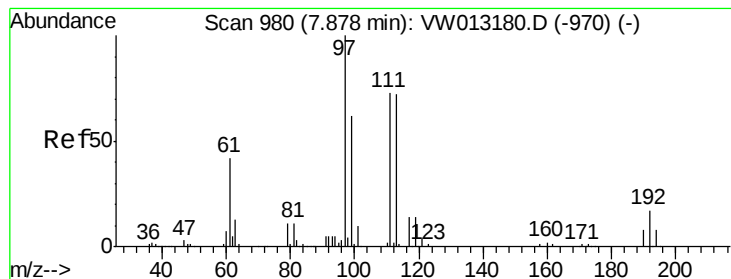
Tot Ion: 65 Resp: 136481
 Ion Ratio Lower Upper
 65 100
 67 53.1 0.0 106.2



#34
 1,4-Difluorobenzene
 Concen: 50.000 ug/l
 RT: 8.84 min Scan# 1137
 Delta R.T. -0.01 min
 Lab File: VW013189.D
 Acq: 20 Sep 2019 18:26

Tgt Ion: 114 Resp: 468346
 Ion Ratio Lower Upper
 114 100
 63 20.1 0.0 41.4
 88 15.6 0.0 32.0





#35

Dibromofluoromethane

Concen: 51.486 ug/l

RT: 7.88 min Scan# 981

Delta R.T. 0.01 min

Lab File: VW013189.D

Acq: 20 Sep 2019 18:26

Instrument :

MSVOA_W

ClientSampleId :

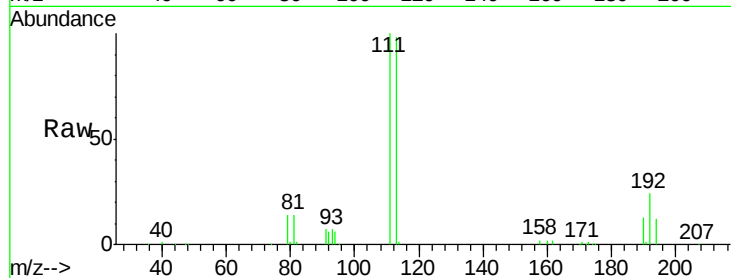
Tot Ion:113 Resp: 132624

Ion Ratio Lower Upper

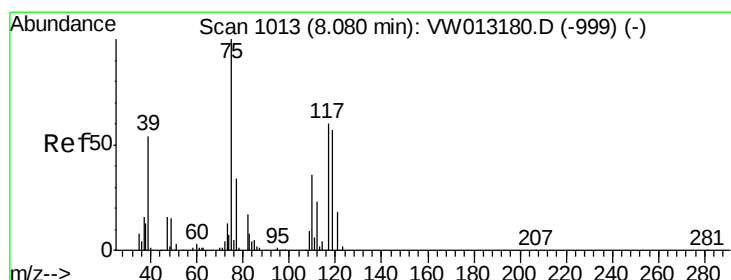
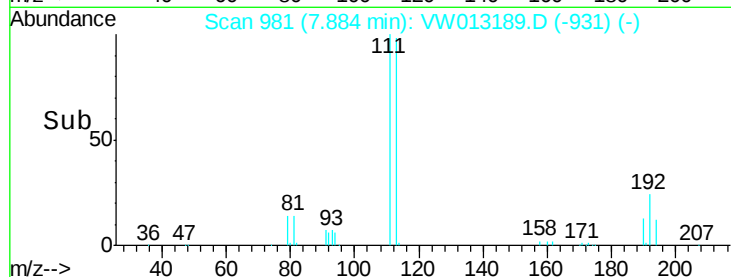
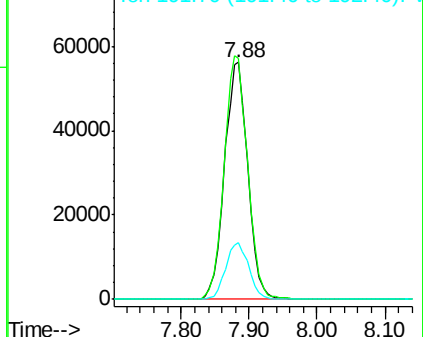
113 100

111 103.4 81.9 122.9

192 23.8 19.1 28.7



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: 4.678 ug/l

RT: 7.94 min Scan# 990

Delta R.T. -0.14 min

Lab File: VW013189.D

Acq: 20 Sep 2019 18:26

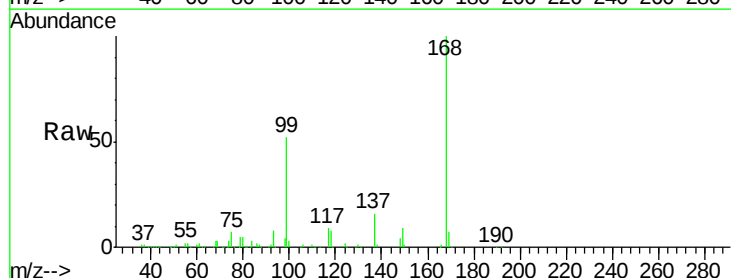
Tgt Ion: 75 Resp: 21221

Ion Ratio Lower Upper

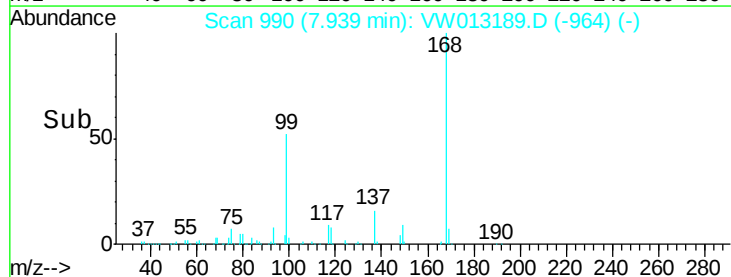
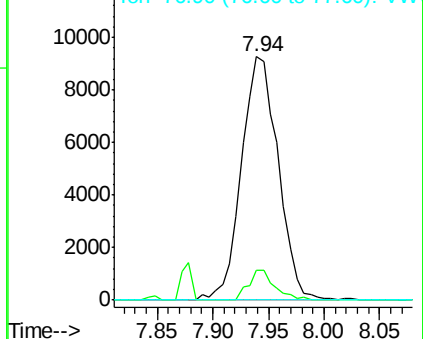
75 100

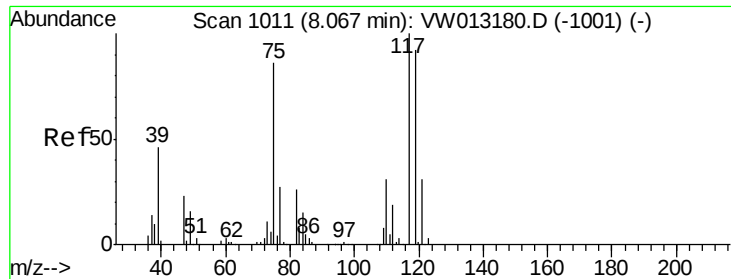
110 8.8 18.1 54.3#

77 0.0 25.8 38.6#



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: 6.759 ug/l

RT: 7.95 min Scan# 991

Delta R.T. -0.12 min

Lab File: VW013189.D

Acq: 20 Sep 2019 18:26

Instrument :

MSVOA_W

ClientSampleId :

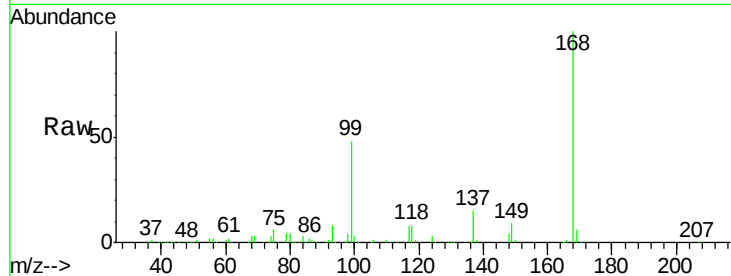
Tot Ion:117 Resp: 27487

Ion Ratio Lower Upper

117 100

119 6.6 73.5 110.3#

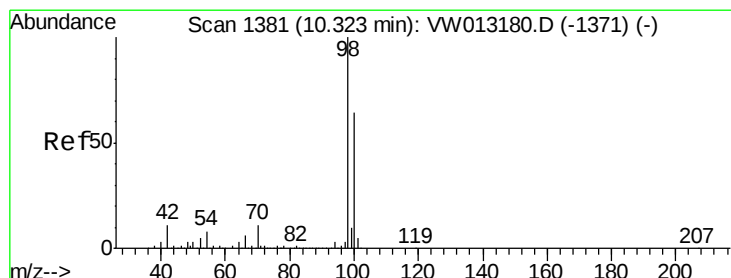
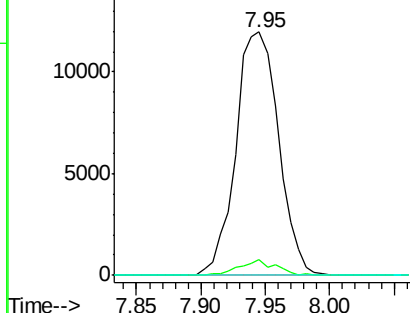
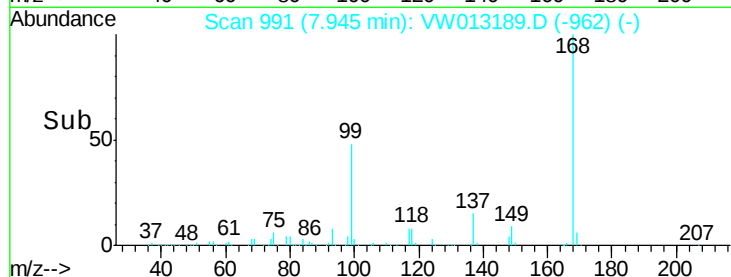
121 0.0 25.0 37.6#



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: 49.453 ug/l

RT: 10.32 min Scan# 1381

Delta R.T. -0.00 min

Lab File: VW013189.D

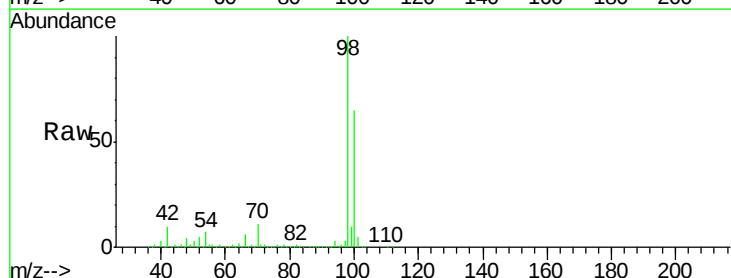
Acq: 20 Sep 2019 18:26

Tgt Ion: 98 Resp: 533128

Ion Ratio Lower Upper

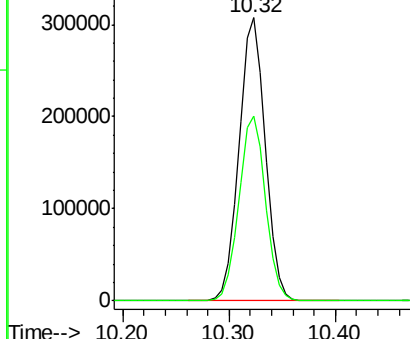
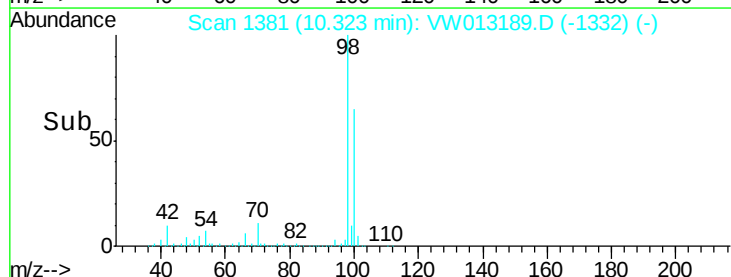
98 100

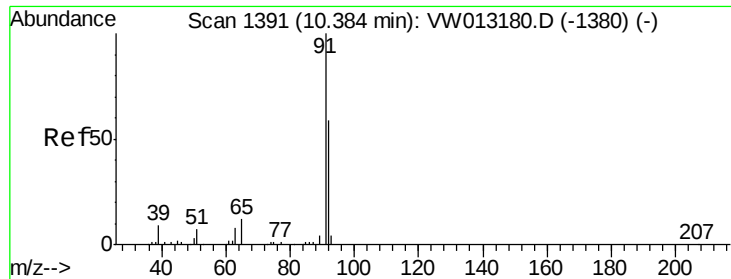
100 66.0 52.9 79.3



Abundance Ion 98.00 (97.70 to 98.70): VW

Ion 100.00 (99.70 to 100.70): VW





#52

Toluene

Concen: 1.037 ug/l

RT: 10.38 min Scan# 1391

Delta R.T. -0.00 min

Lab File: VW013189.D

Acq: 20 Sep 2019 18:26

Instrument :

MSVOA_W

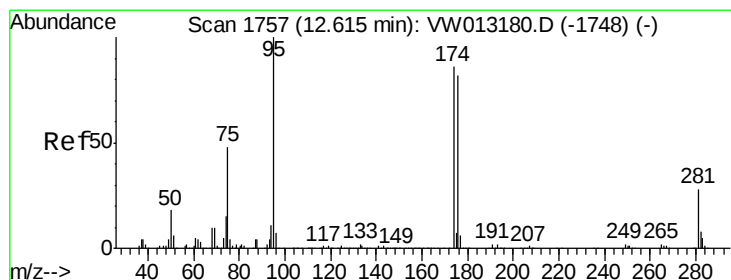
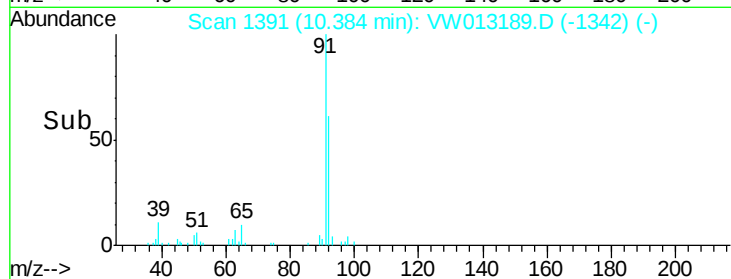
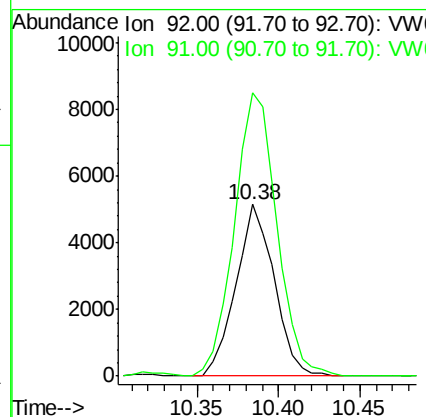
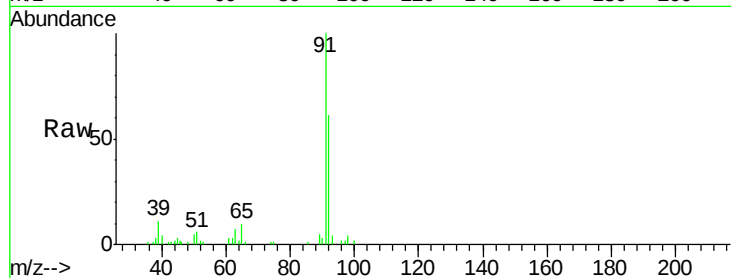
ClientSampleId :

Tot Ion: 92 Resp: 8407

Ion Ratio Lower Upper

92 100

91 182.7 135.7 203.5



#62

4-Bromofluorobenzene

Concen: 42.891 ug/l

RT: 12.62 min Scan# 1757

Delta R.T. -0.00 min

Lab File: VW013189.D

Acq: 20 Sep 2019 18:26

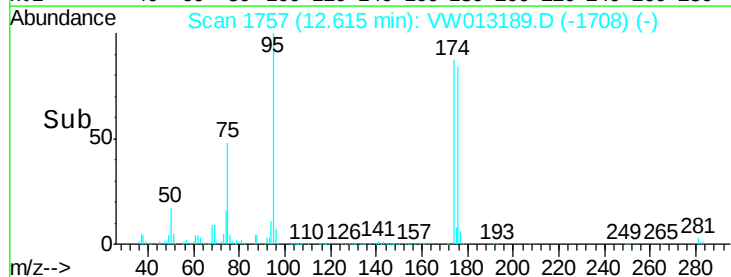
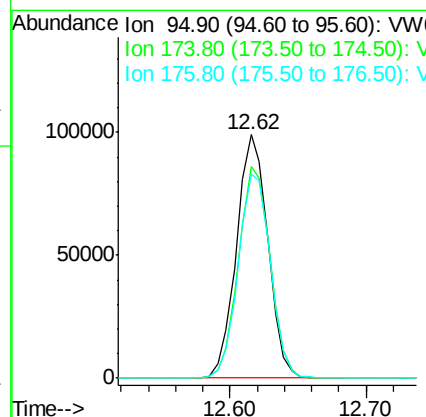
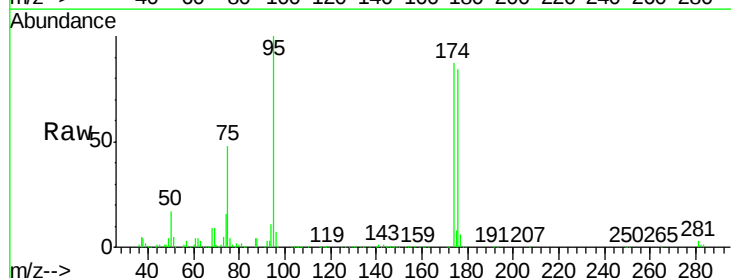
Tgt Ion: 95 Resp: 157947

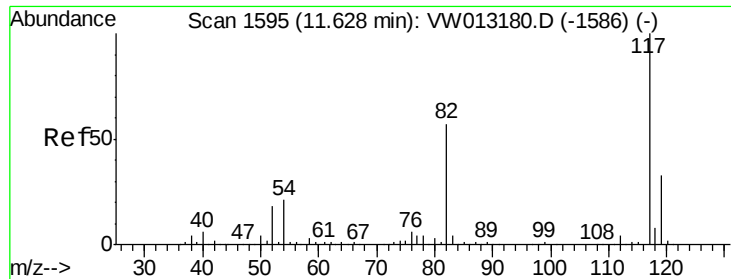
Ion Ratio Lower Upper

95 100

174 88.6 0.0 178.4

176 86.4 0.0 172.2

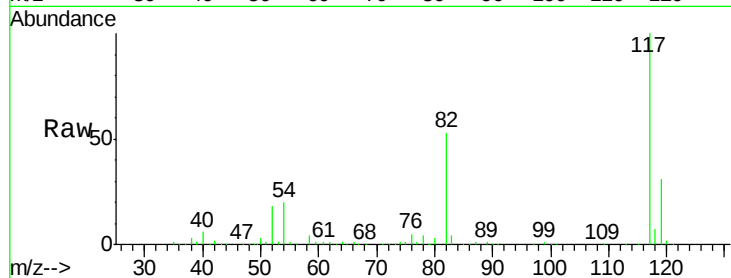




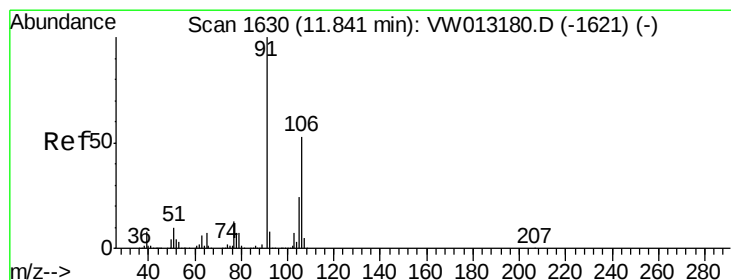
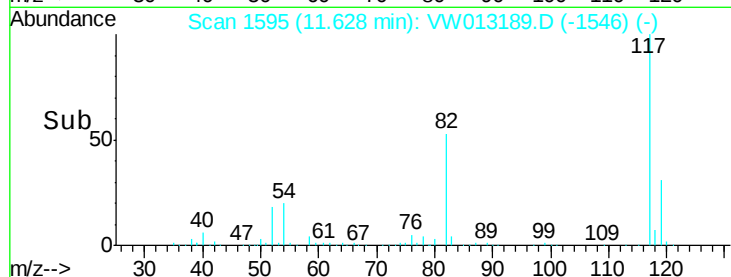
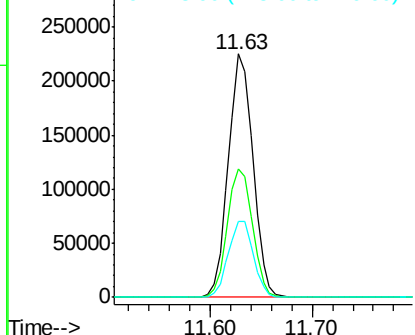
#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.63 min Scan# 1595
Delta R.T. -0.00 min
Lab File: VW013189.D
Acq: 20 Sep 2019 18:26

Instrument :
MSVOA_W
ClientSampleId :

Tot Ion:117 Resp: 376447
Ion Ratio Lower Upper
117 100
82 52.9 45.9 68.9
119 31.0 26.2 39.2

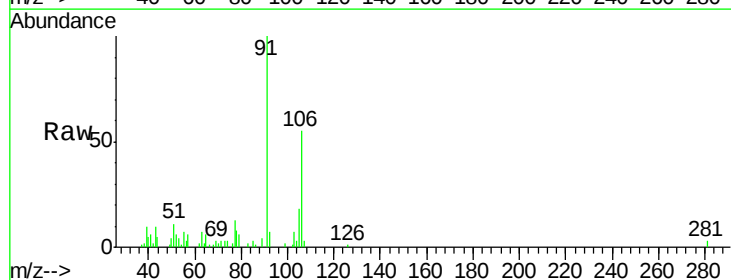


Abundance Ion 116.90 (116.60 to 117.60): V
Ion 82.00 (81.70 to 82.70): VW
Ion 118.90 (118.60 to 119.60): V

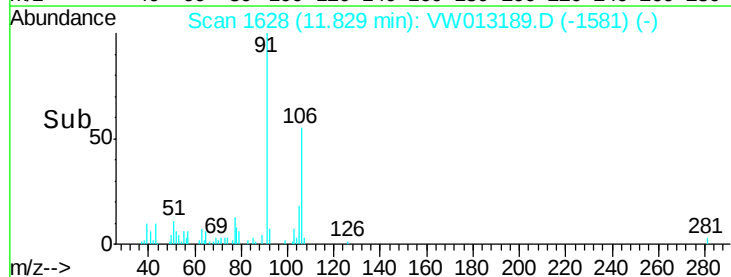
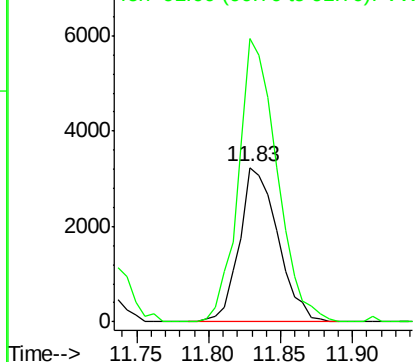


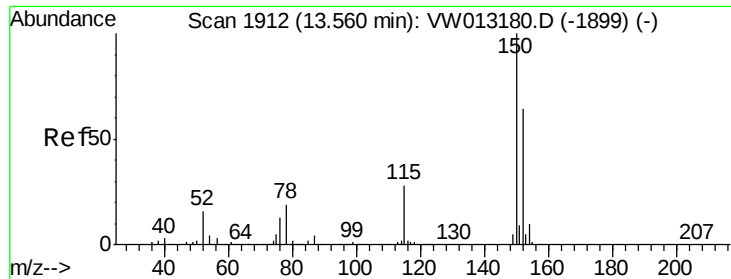
#68
m/p-Xylenes
Concen: 1.103 ug/l
RT: 11.83 min Scan# 1628
Delta R.T. -0.01 min
Lab File: VW013189.D
Acq: 20 Sep 2019 18:26

Tgt Ion:106 Resp: 5985
Ion Ratio Lower Upper
106 100
91 184.2 157.9 236.9



Abundance Ion 106.00 (105.70 to 106.70): V
Ion 91.00 (90.70 to 91.70): VW



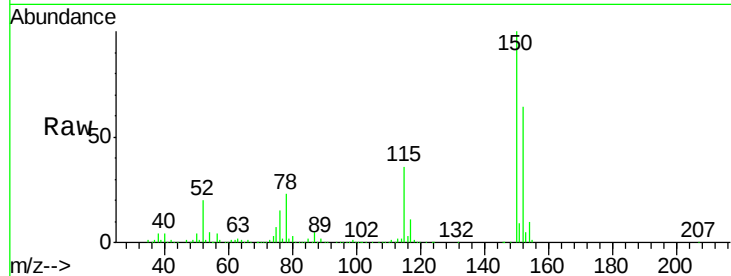


#72

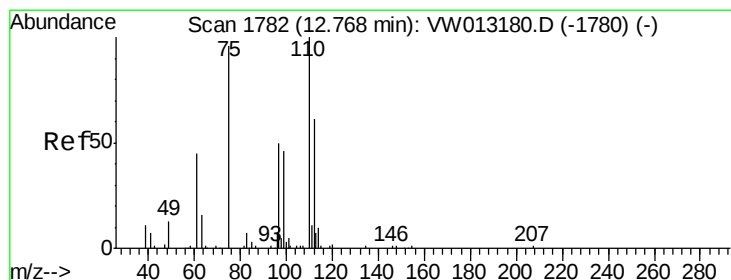
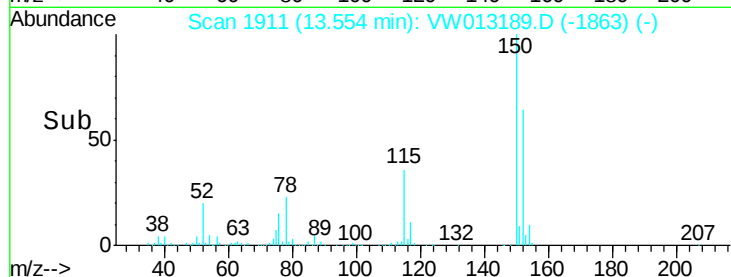
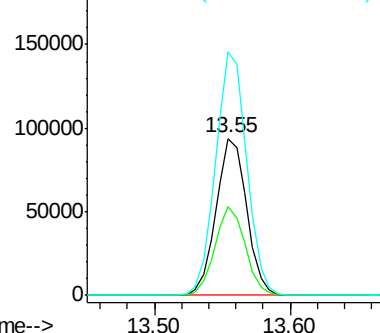
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 13.55 min Scan# 1911
Delta R.T. -0.01 min
Lab File: VW013189.D
Acq: 20 Sep 2019 18:26

Instrument :
MSVOA_W
ClientSampleId :

Tot Ion:152 Resp: 148144
Ion Ratio Lower Upper
152 100
115 55.8 27.3 81.9
150 157.4 0.0 349.0



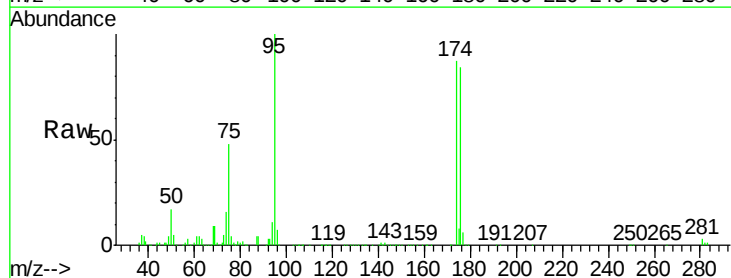
Abundance Ion 151.90 (151.60 to 152.60): V
Ion 114.90 (114.60 to 115.60): V
Ion 149.90 (149.60 to 150.60): V



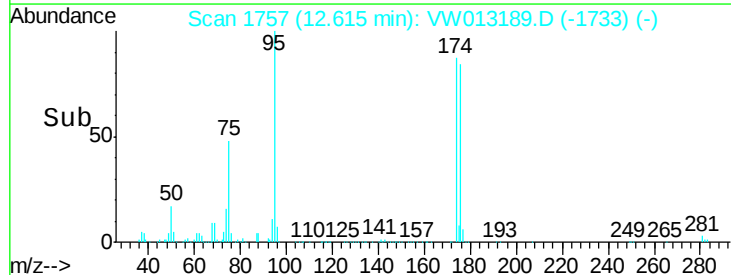
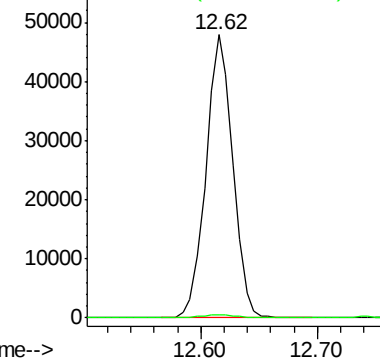
#76

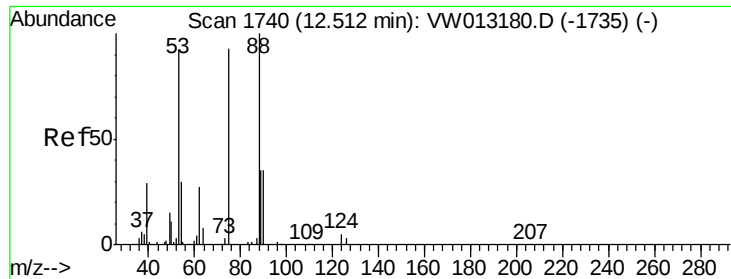
1,2,3-Trichloropropane
Concen: 58.615 ug/l
RT: 12.62 min Scan# 1757
Delta R.T. -0.15 min
Lab File: VW013189.D
Acq: 20 Sep 2019 18:26

Tgt Ion: 75 Resp: 76687
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





#81

trans-1,4-Dichloro-2-butene

Concen: 131.528 ug/l

RT: 12.62 min Scan# 1757

Delta R.T. 0.10 min

Lab File: VW013189.D

Acq: 20 Sep 2019 18:26

Instrument :

MSVOA_W

ClientSampleId :

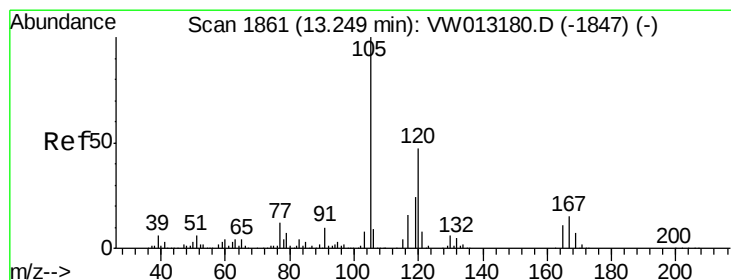
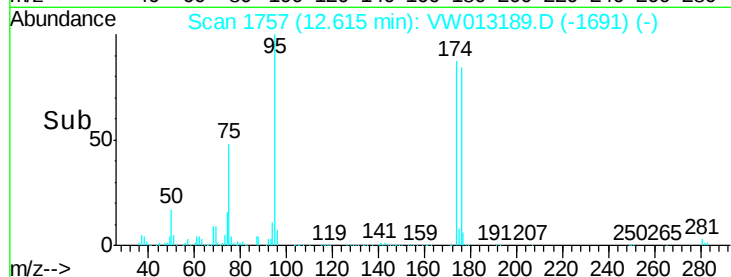
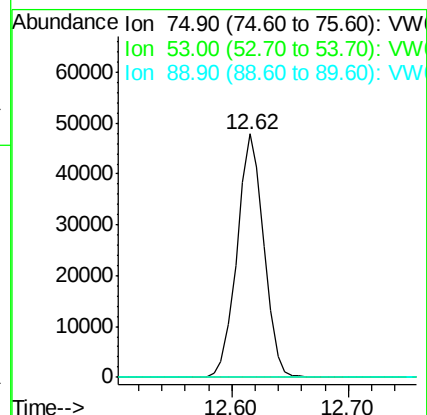
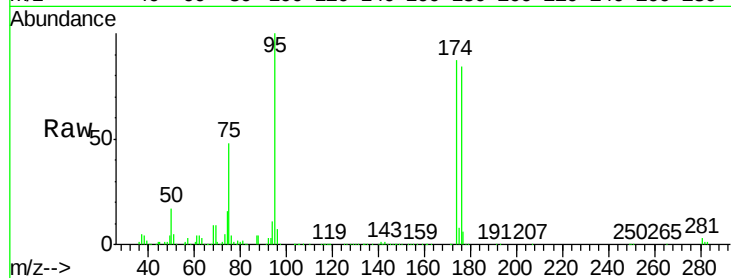
Tot Ion: 75 Resp: 76687

Ion Ratio Lower Upper

75 100

53 0.1 76.6 114.8#

89 0.0 33.5 50.3#



#84

1,2,4-Trimethylbenzene

Concen: 1.142 ug/l

RT: 13.25 min Scan# 1861

Delta R.T. -0.00 min

Lab File: VW013189.D

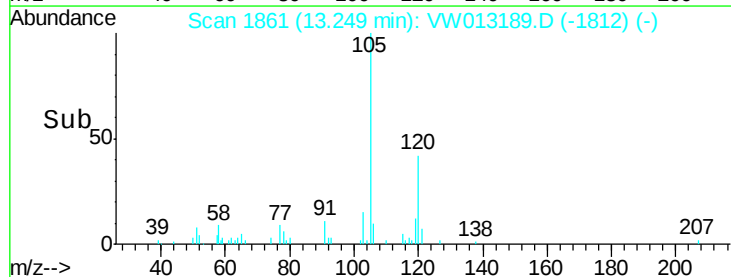
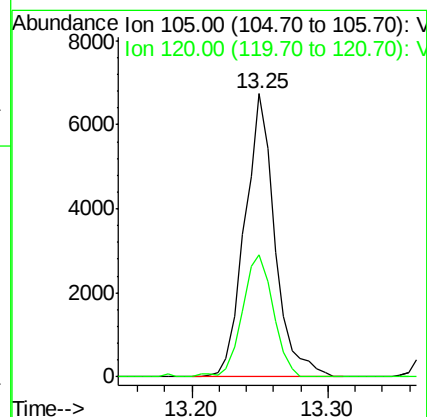
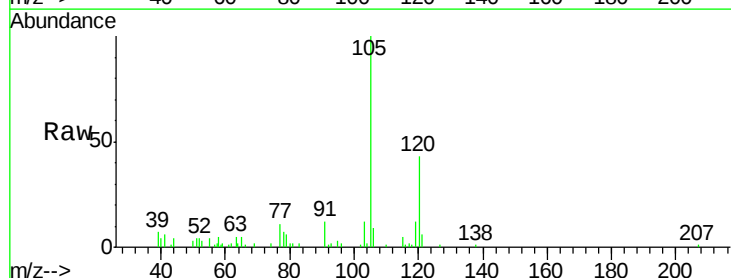
Acq: 20 Sep 2019 18:26

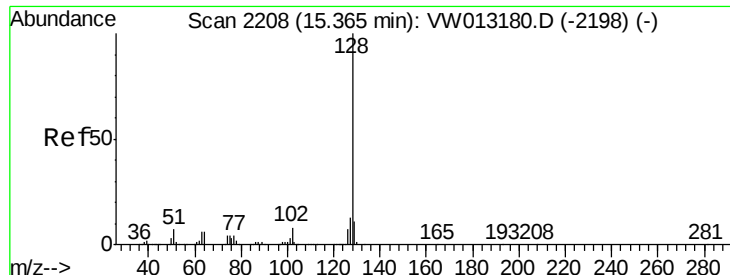
Tgt Ion: 105 Resp: 10451

Ion Ratio Lower Upper

105 100

120 43.9 23.4 70.3

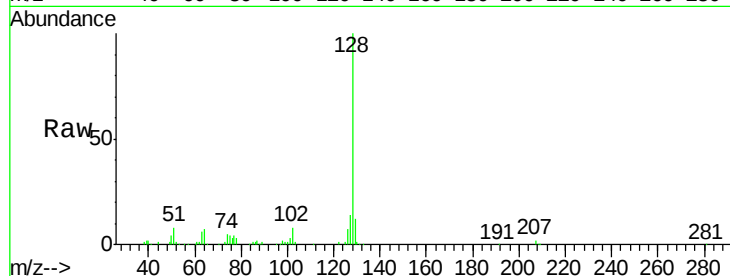




#95
 Naphthalene
 Concen: 10.370 ug/l
 RT: 15.36 min Scan# 2208
 Delta R.T. -0.00 min
 Lab File: VW013189.D
 Acq: 20 Sep 2019 18:26

Instrument :
 MSVOA_W
 ClientSampleId :

Tot Ion	Ratio	Lower	Upper
128	100		
127	13.7	10.6	15.8
129	11.0	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

