

Data Path : Z:\VOASRV\HPCHEM1\MSVOA W\DATA\VW072719\
 Data File : VW011522.D
 Acq On : 26 Jul 2019 17:58
 Operator : SY/VA
 Sample : K3626-15
 Misc : 6.62G/5.0ML/MSVOA W/SOIL
 ALS Vial : 16 Sample Multiplier: 1

Instrument :
 MSVOA_W
 ClientSampleId :
 SU-03-072519-B

Quant Time: Jul 27 05:32:09 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_W\METHOD\82W072719S.M
 Quant Title : SW846 8260
 QLast Update : Sat Jul 27 00:23:30 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	7.95	168	238471	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	8.84	114	399339	50.00	ug/l	0.00
63) Chlorobenzene-d5	11.63	117	328636	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.56	152	130636	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	149972	54.77	ug/l	0.00
Spiked Amount			Recovery	=	109.54%	
35) Dibromofluoromethane	7.88	113	120891	53.96	ug/l	0.00
Spiked Amount			Recovery	=	107.92%	
50) Toluene-d8	10.32	98	485567	52.94	ug/l	0.00
Spiked Amount			Recovery	=	105.88%	
62) 4-Bromofluorobenzene	12.62	95	154684	47.30	ug/l	0.00
Spiked Amount			Recovery	=	94.60%	

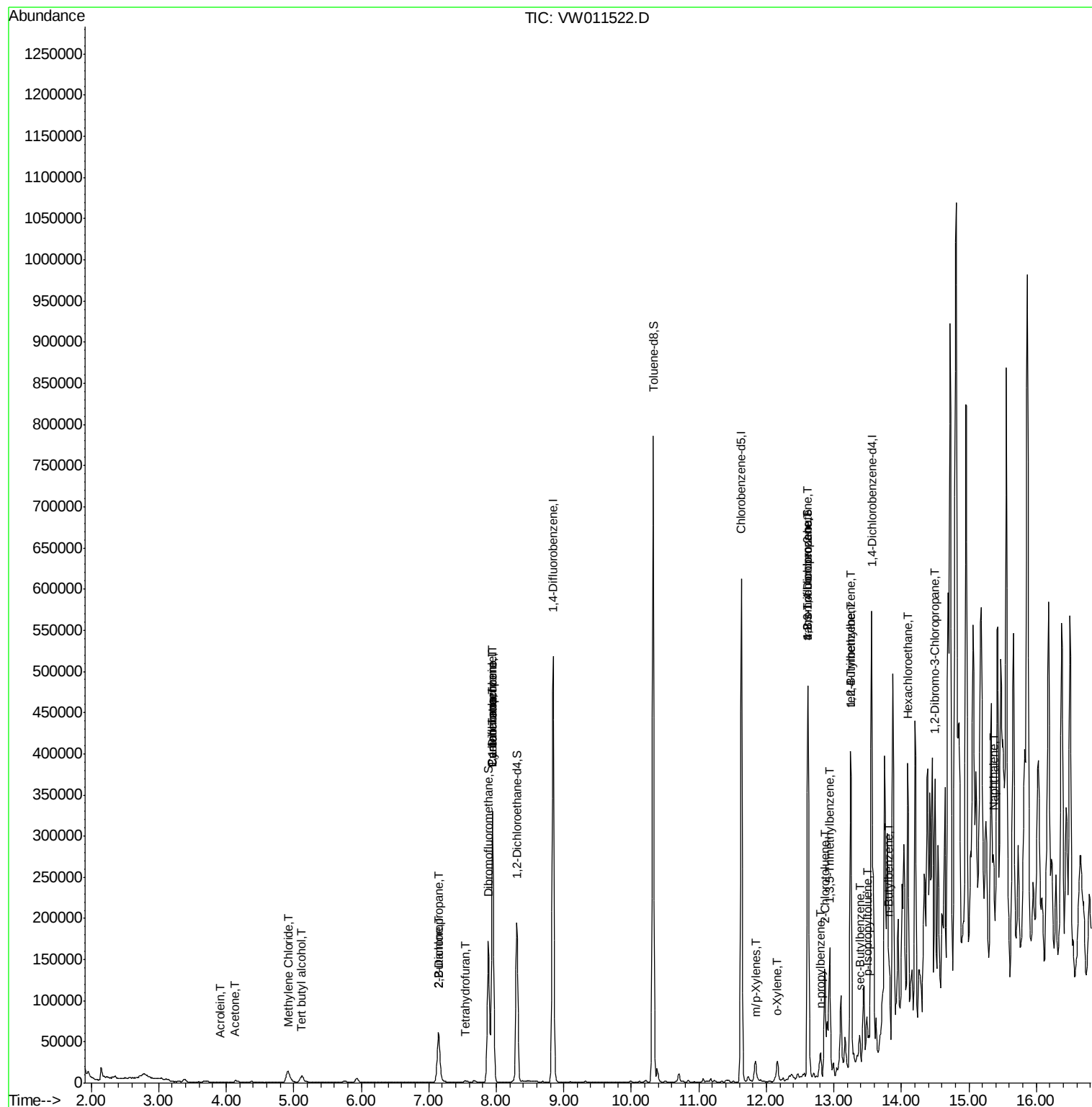
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
11) Tert butyl alcohol	5.12	59	8310	25.079	ug/l #	72
13) Acrolein	3.92	56	385	1.959	ug/l #	66
16) Acetone	4.13	43	3644	4.183	ug/l	94
20) Methylene Chloride	4.91	84	9742	3.243	ug/l	96
25) 2-Butanone	7.15	43	4417	3.875	ug/l #	87
26) 2,2-Dichloropropane	7.15	77	4164	1.269	ug/l #	54
29) Tetrahydrofuran	7.54	42	1594	2.447	ug/l #	86
31) Cyclohexane	7.94	56	5873	1.147	ug/l #	1
36) 1,1-Dichloropropene	7.95	75	20905	5.034	ug/l #	52
38) Carbon Tetrachloride	7.95	117	24027	6.759	ug/l #	17
68) m/p-Xylenes	11.84	106	5641	1.233	ug/l	99
69) o-Xylene	12.16	106	5830	1.371	ug/l	99
76) 1,2,3-Trichloropropane	12.62	75	80644	58.341	ug/l #	100
78) n-propylbenzene	12.80	91	22128	1.866	ug/l	98
79) 2-Chlorotoluene	12.87	91	9225	1.350	ug/l #	43
80) 1,3,5-Trimethylbenzene	12.94	105	44774	5.481	ug/l	100
81) trans-1,4-Dichloro-2-buten	12.62	75	80644	134.457	ug/l #	6
83) tert-Butylbenzene	13.25	119	25358	3.712	ug/l #	70
84) 1,2,4-Trimethylbenzene	13.25	105	209225	25.424	ug/l	100
85) sec-Butylbenzene	13.38	105	18338	1.881	ug/l	86
86) p-Isopropyltoluene	13.50	119	13655	1.544	ug/l	98
89) n-Butylbenzene	13.82	91	46110	5.224	ug/l #	80
90) Hexachloroethane	14.10	117	14559	9.309	ug/l #	10
92) 1,2-Dibromo-3-Chloropropan	14.51	75	902	2.885	ug/l #	17
95) Naphthalene	15.37	128	45234	10.474	ug/l #	95

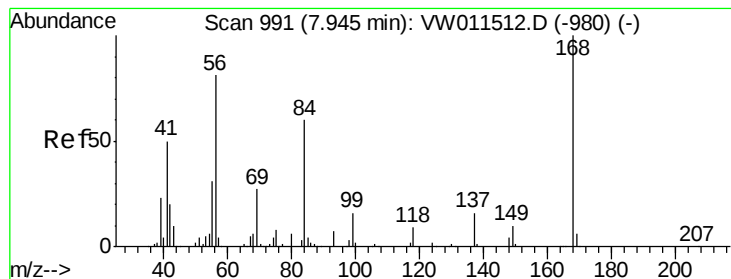
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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Quant Title : SW846 8260
QLast Update : Sat Jul 27 00:23:30 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: VW011522.D

Acq: 26 Jul 2019 17:58

Instrument :

MSVOA_W

ClientSampleId :

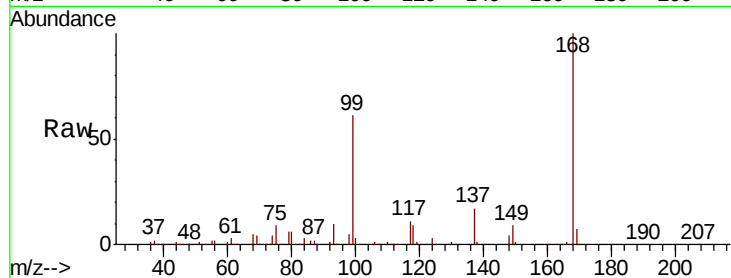
SU-03-072519-B

Tot Ion:168 Resp: 238471

Ion Ratio Lower Upper

168 100

99 60.8 48.2 72.4



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VW

7.95

120000

100000

80000

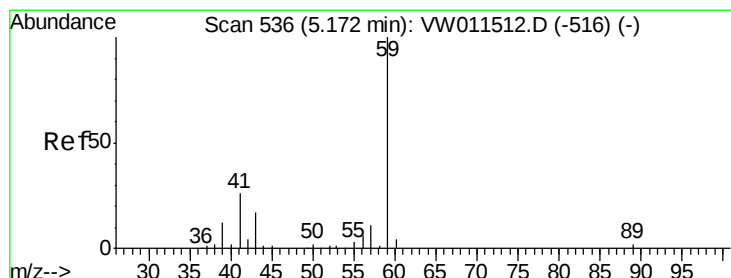
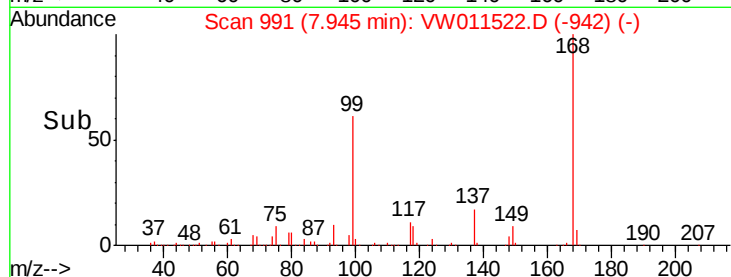
60000

40000

20000

0

Time--> 7.80 7.90 8.00 8.10



#11

Tert butyl alcohol

Concen: 25.079 ug/l

RT: 5.12 min Scan# 527

Delta R.T. -0.05 min

Lab File: VW011522.D

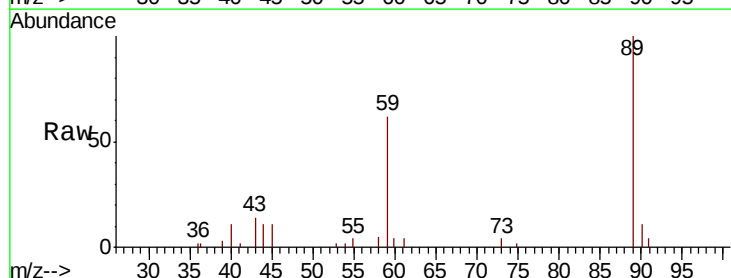
Acq: 26 Jul 2019 17:58

Tgt Ion: 59 Resp: 8310

Ion Ratio Lower Upper

59 100

57 0.0 8.5 12.7#



Abundance Ion 59.00 (58.70 to 59.70): VW

Ion 57.00 (56.70 to 57.70): VW

5.12

2000

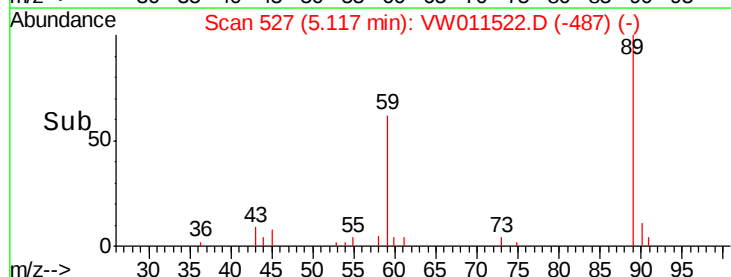
1500

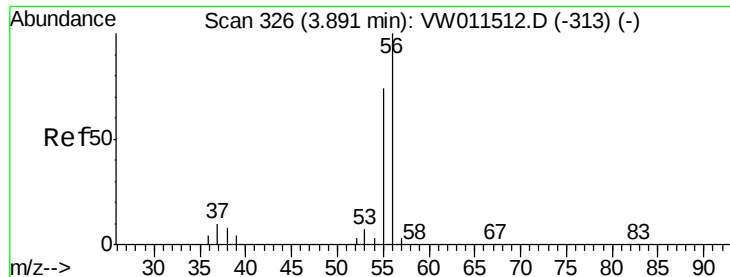
1000

500

0

Time--> 5.00 5.10 5.20

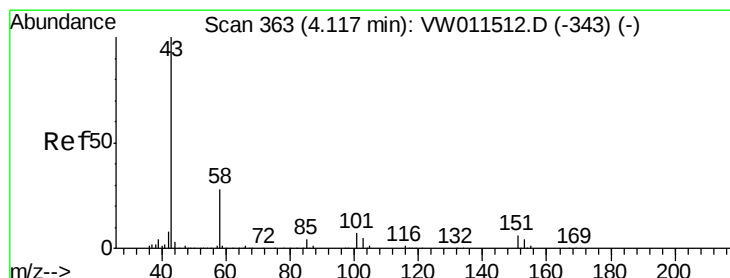
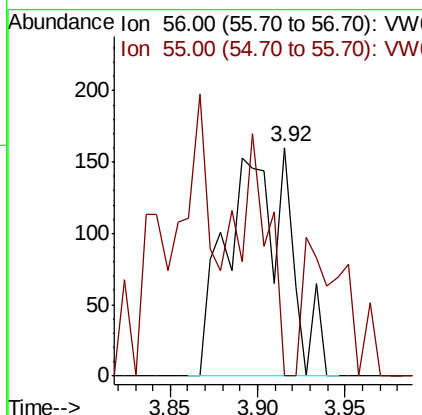
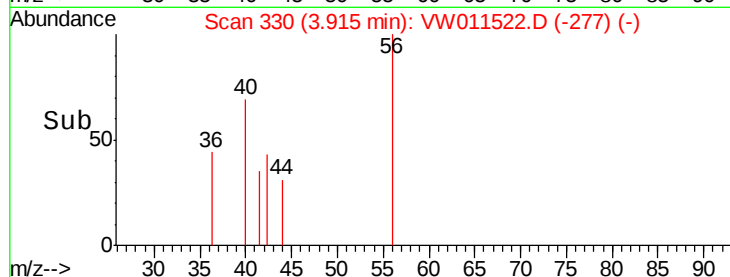
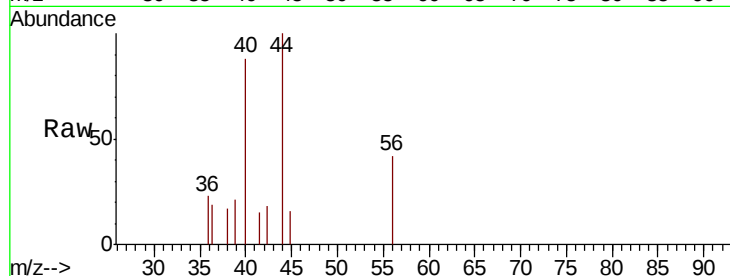




#13
Acrolein
Concen: 1.959 ug/l
RT: 3.92 min Scan# 330
Delta R.T. 0.02 min
Lab File: VW011522.D
Acq: 26 Jul 2019 17:58

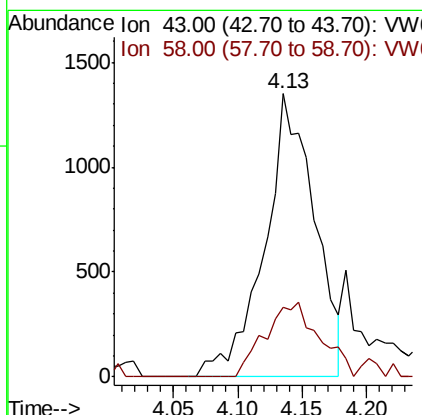
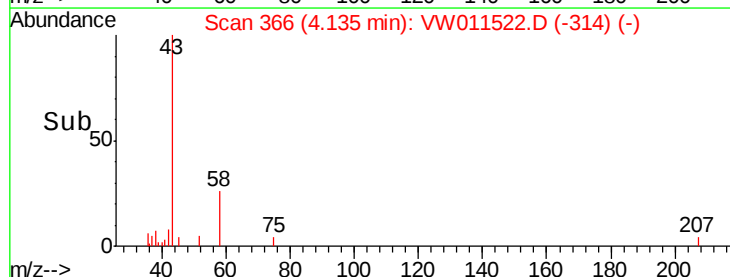
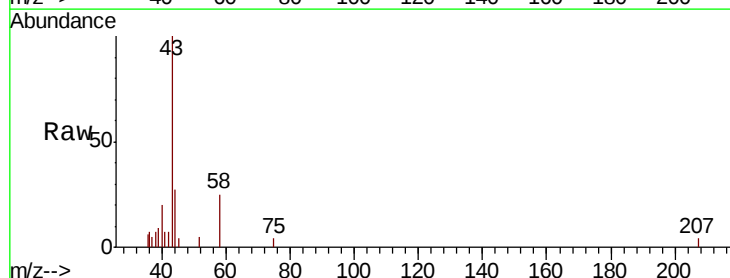
Instrument :
MSVOA_W
ClientSampleId :
SU-03-072519-B

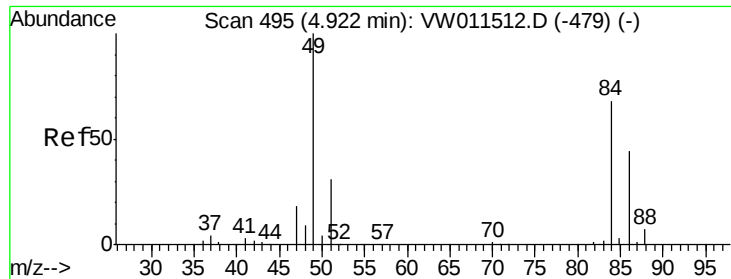
Tot Ion: 56 Resp: 385
Ion Ratio Lower Upper
56 100
55 41.8 56.0 84.0#



#16
Acetone
Concen: 4.183 ug/l
RT: 4.13 min Scan# 366
Delta R.T. 0.02 min
Lab File: VW011522.D
Acq: 26 Jul 2019 17:58

Tgt Ion: 43 Resp: 3644
Ion Ratio Lower Upper
43 100
58 24.8 22.3 33.5

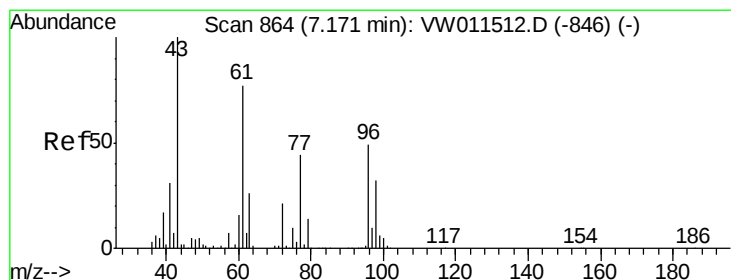
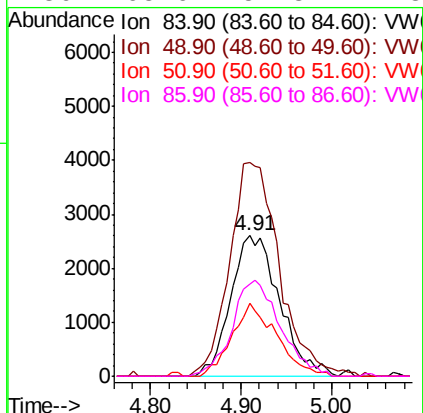
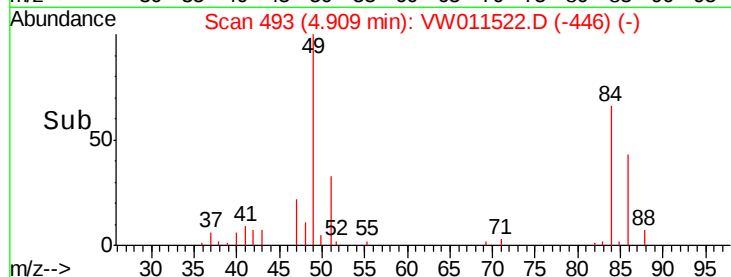
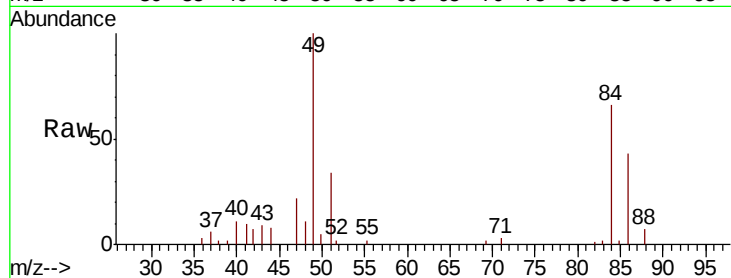




#20
Methvlene Chloride
Concen: 3.243 ug/l
RT: 4.91 min Scan# 493
Delta R.T. -0.01 min
Lab File: VW011522.D
Acq: 26 Jul 2019 17:58

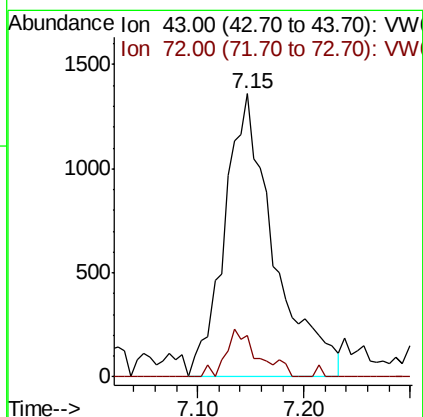
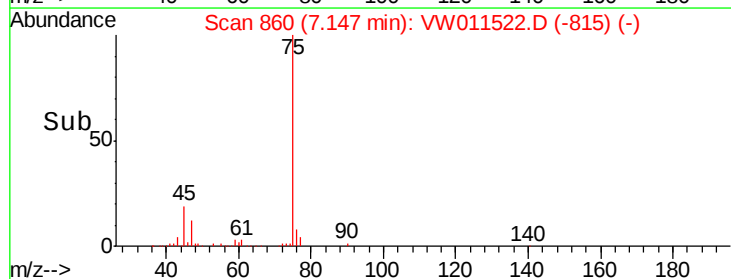
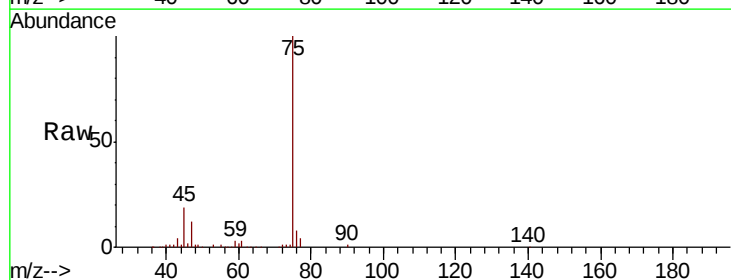
Instrument :
MSVOA_W
ClientSampleId :
SU-03-072519-B

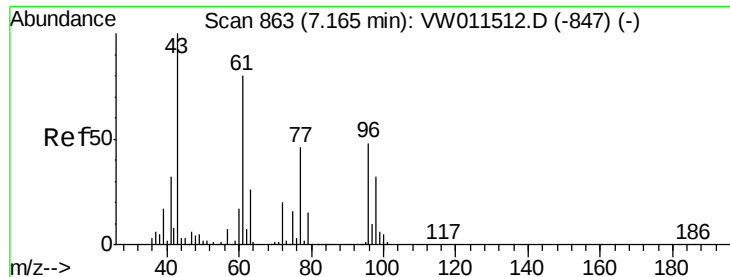
Tot Ion:	84	Resp:	9742
Ion	Ratio	Lower	Upper
84	100		
49	151.8	117.8	176.6
51	51.5	37.0	55.4
86	65.6	51.8	77.8



#25
2-Butanone
Concen: 3.875 ug/l
RT: 7.15 min Scan# 860
Delta R.T. -0.02 min
Lab File: VW011522.D
Acq: 26 Jul 2019 17:58

Tgt Ion:	43	Resp:	4417
Ion	Ratio	Lower	Upper
43	100		
72	14.6	16.6	24.8#





#26

2,2-Dichloropropane

Concen: 1.269 ug/l

RT: 7.15 min Scan# 860

Delta R.T. -0.02 min

Lab File: VW011522.D

Acq: 26 Jul 2019 17:58

Instrument :

MSVOA_W

ClientSampleId :

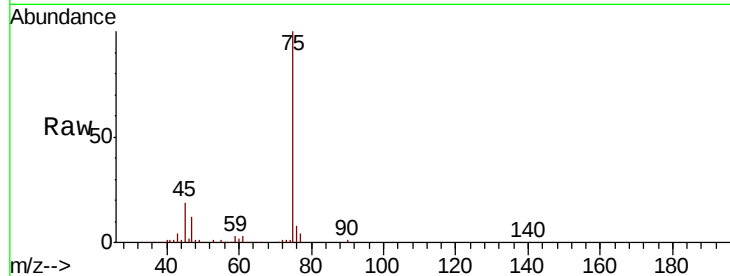
SU-03-072519-B

Tot Ion: 77 Resp: 4164

Ion Ratio Lower Upper

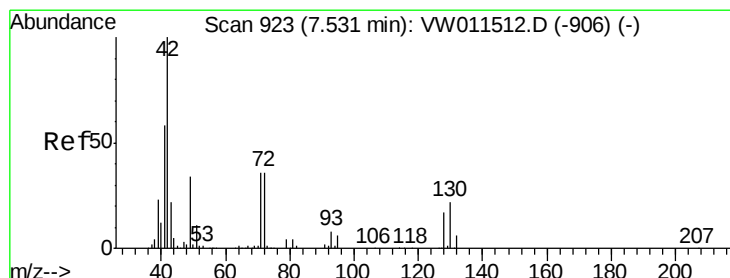
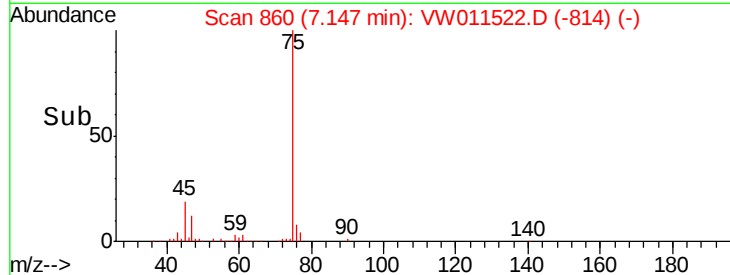
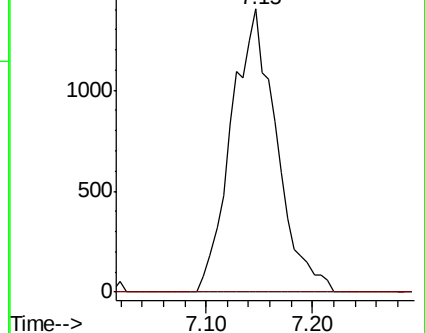
77 100

97 0.0 10.8 32.4#



Abundance Ion 76.90 (76.60 to 77.60): VW

Ion 96.90 (96.60 to 97.60): VW



#29

Tetrahydrofuran

Concen: 2.447 ug/l

RT: 7.54 min Scan# 924

Delta R.T. 0.01 min

Lab File: VW011522.D

Acq: 26 Jul 2019 17:58

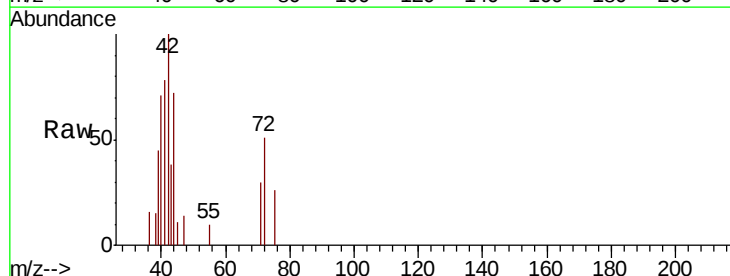
Tgt Ion: 42 Resp: 1594

Ion Ratio Lower Upper

42 100

72 45.2 27.1 40.7#

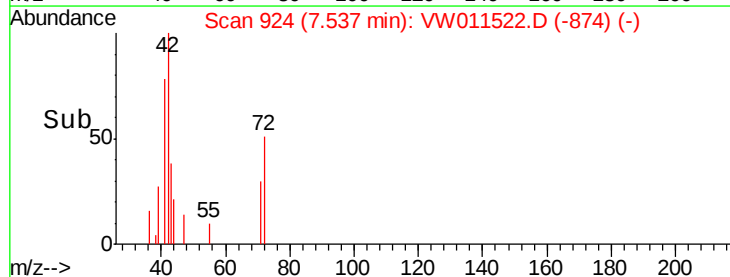
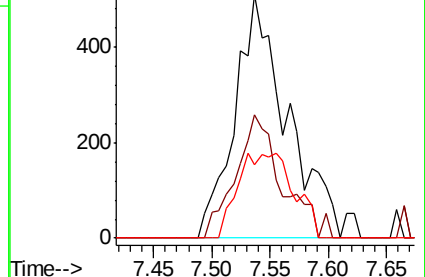
71 37.3 26.2 39.4

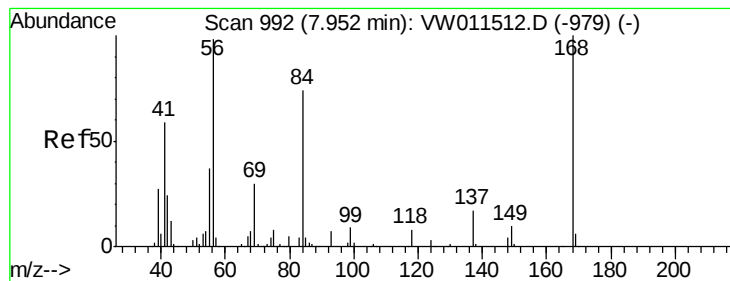


Abundance Ion 42.00 (41.70 to 42.70): VW

Ion 72.00 (71.70 to 72.70): VW

Ion 71.00 (70.70 to 71.70): VW





#31

Cyclohexane

Concen: 1.147 ug/l

RT: 7.94 min Scan# 990

Delta R.T. -0.01 min

Lab File: VW011522.D

Acq: 26 Jul 2019 17:58

Instrument :

MSVOA_W

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SU-03-072519-B

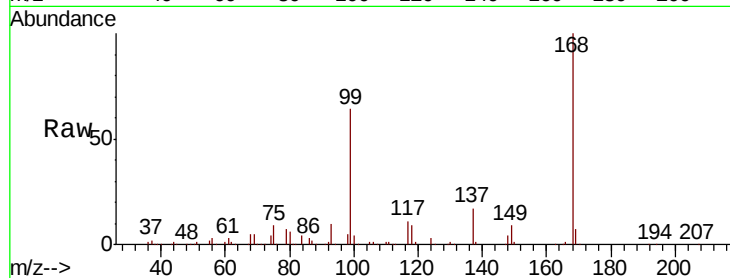
Tot Ion: 56 Resp: 5873

Ion Ratio Lower Upper

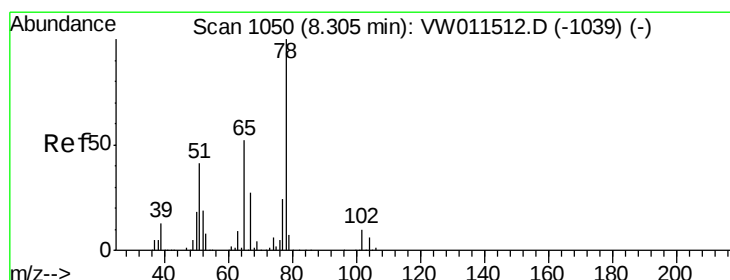
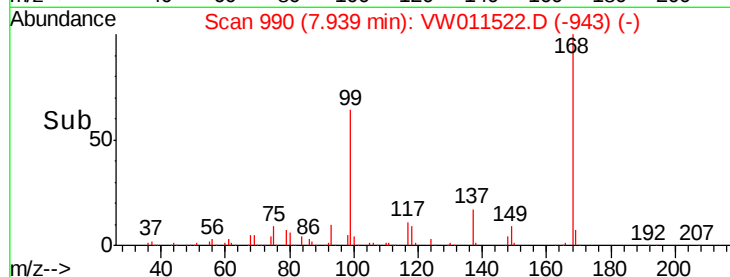
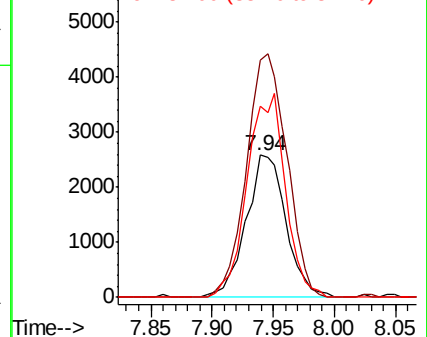
56 100

69 167.0 24.3 36.5#

84 134.0 60.4 90.6#



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: 54.768 ug/l

RT: 8.30 min Scan# 1050

Delta R.T. -0.00 min

Lab File: VW011522.D

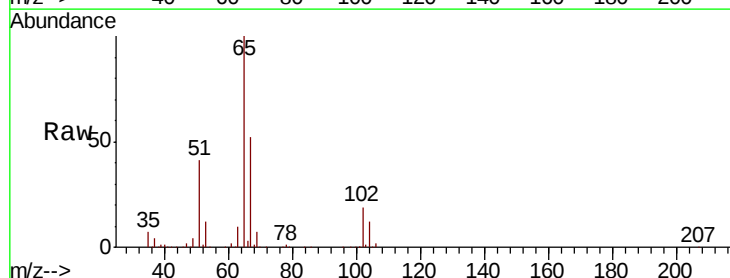
Acq: 26 Jul 2019 17:58

Tgt Ion: 65 Resp: 149972

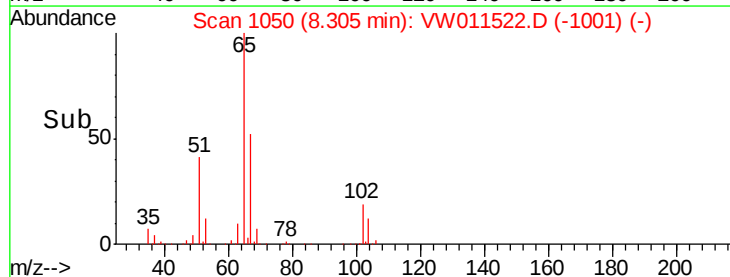
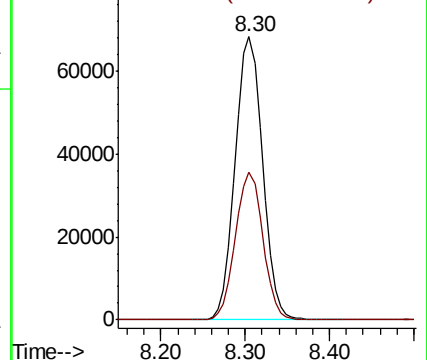
Ion Ratio Lower Upper

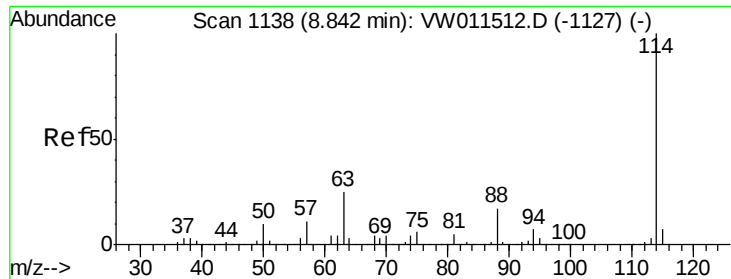
65 100

67 52.3 0.0 105.2



Abundance Ion 64.90 (64.60 to 65.60): VW
Ion 66.90 (66.60 to 67.60): VW

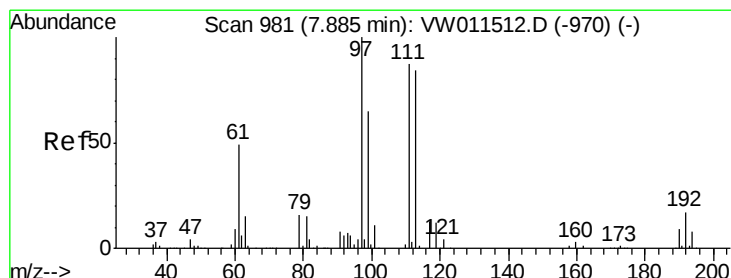
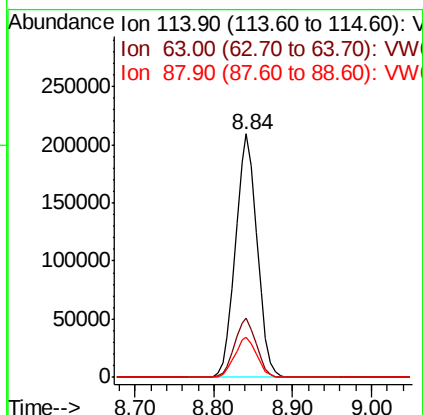
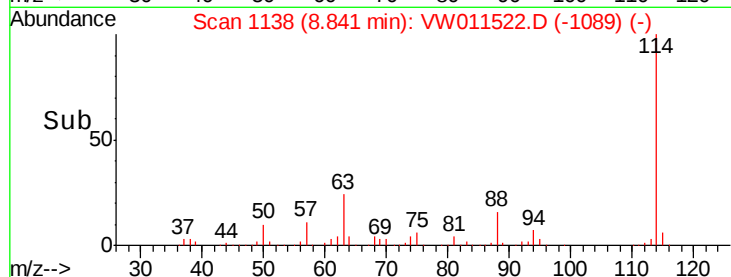
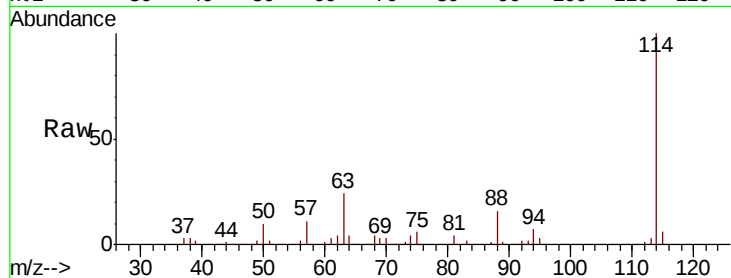




#34
1,4-Difluorobenzene
Concen: 50.000 ug/l
RT: 8.84 min Scan# 1138
Delta R.T. -0.00 min
Lab File: VW011522.D
Acq: 26 Jul 2019 17:58

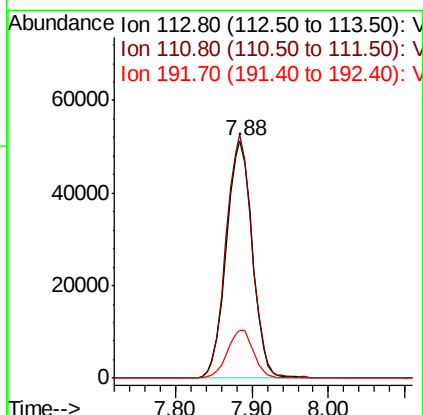
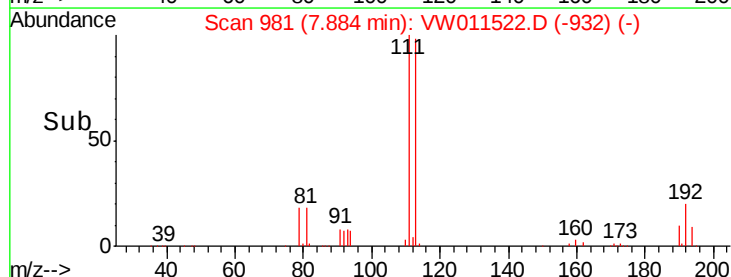
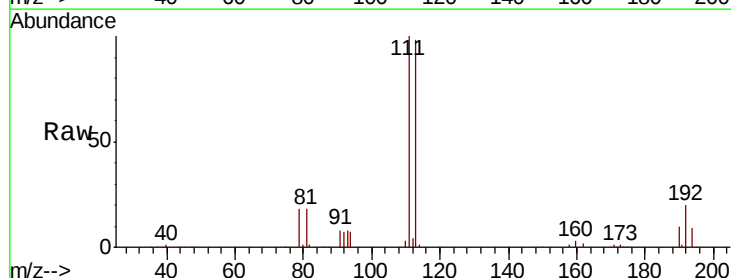
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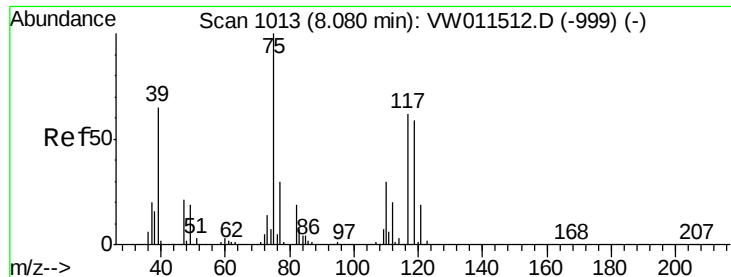
Tot Ion:114 Resp: 399339
Ion Ratio Lower Upper
114 100
63 24.4 0.0 49.2
88 16.5 0.0 33.8



#35
Dibromofluoromethane
Concen: 53.960 ug/l
RT: 7.88 min Scan# 981
Delta R.T. -0.00 min
Lab File: VW011522.D
Acq: 26 Jul 2019 17:58

Tgt Ion:113 Resp: 120891
Ion Ratio Lower Upper
113 100
111 101.9 82.7 124.1
192 20.1 16.1 24.1





#36

1,1-Dichloropropene

Concen: 5.034 ug/l

RT: 7.95 min Scan# 991

Delta R.T. -0.13 min

Lab File: VW011522.D

Acq: 26 Jul 2019 17:58

Instrument :

MSVOA_W

ClientSampleId :

SU-03-072519-B

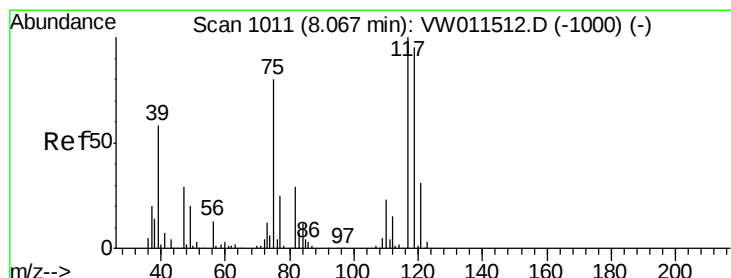
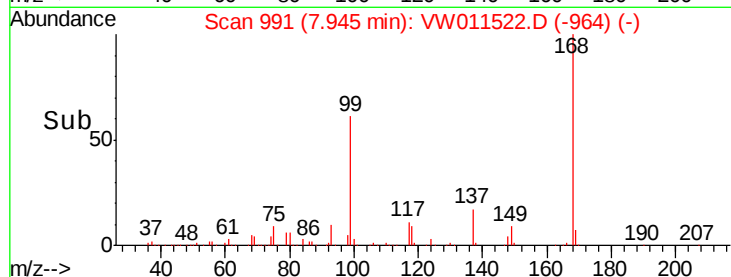
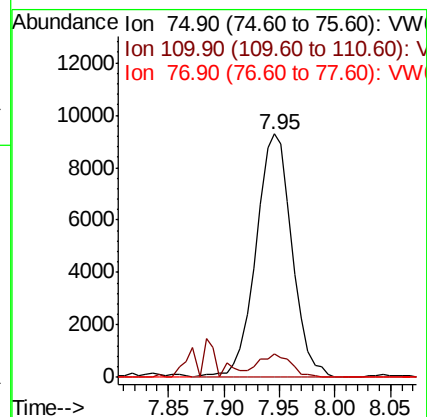
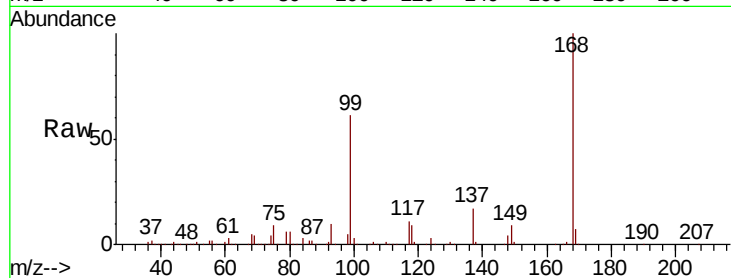
Tot Ion: 75 Resp: 20905

Ion Ratio Lower Upper

75 100

110 8.9 15.6 46.8#

77 0.0 24.3 36.5#



#38

Carbon Tetrachloride

Concen: 6.759 ug/l

RT: 7.95 min Scan# 991

Delta R.T. -0.12 min

Lab File: VW011522.D

Acq: 26 Jul 2019 17:58

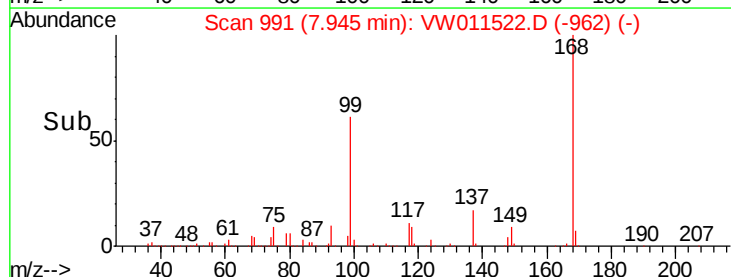
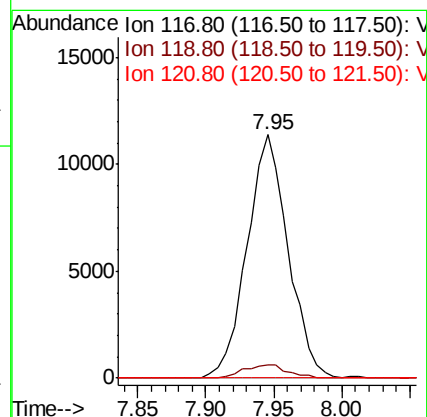
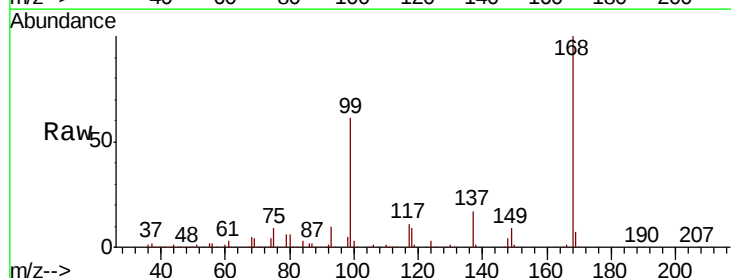
Tgt Ion: 117 Resp: 24027

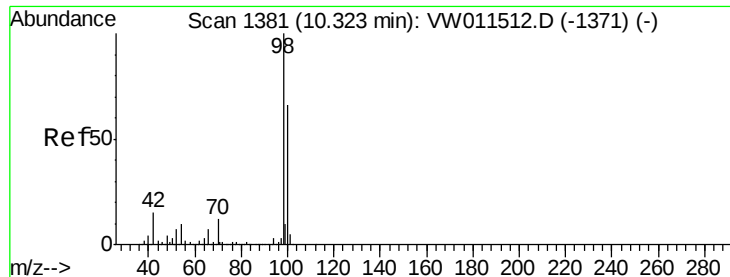
Ion Ratio Lower Upper

117 100

119 5.3 75.8 113.6#

121 0.0 24.7 37.1#





#50

Toluene-d8

Concen: 52.936 ug/l

RT: 10.32 min Scan# 1381

Delta R.T. -0.00 min

Lab File: VW011522.D

Acq: 26 Jul 2019 17:58

Instrument :

MSVOA_W

ClientSampleId :

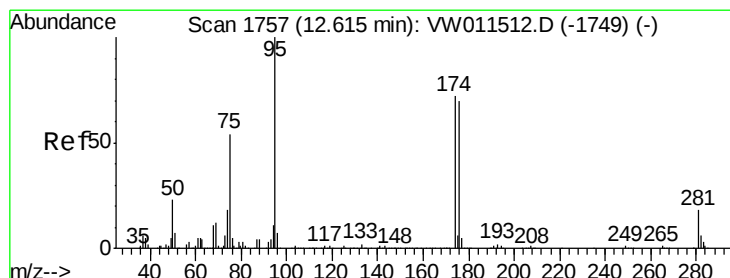
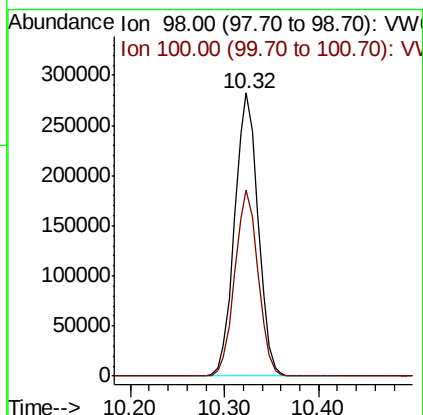
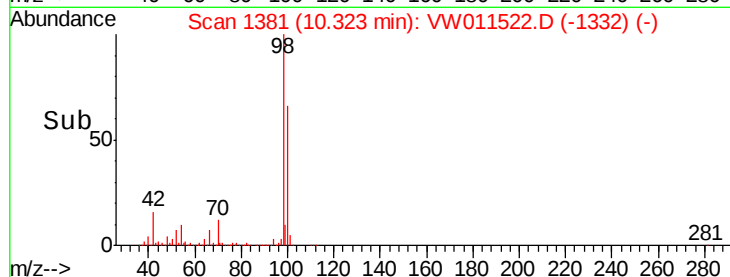
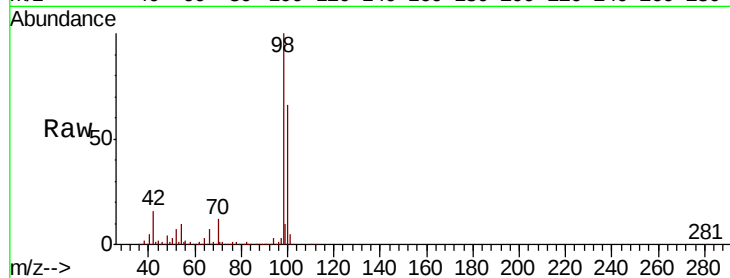
SU-03-072519-B

Tot Ion: 98 Resp: 485567

Ion Ratio Lower Upper

98 100

100 65.5 52.7 79.1



#62

4-Bromofluorobenzene

Concen: 47.300 ug/l

RT: 12.62 min Scan# 1757

Delta R.T. -0.00 min

Lab File: VW011522.D

Acq: 26 Jul 2019 17:58

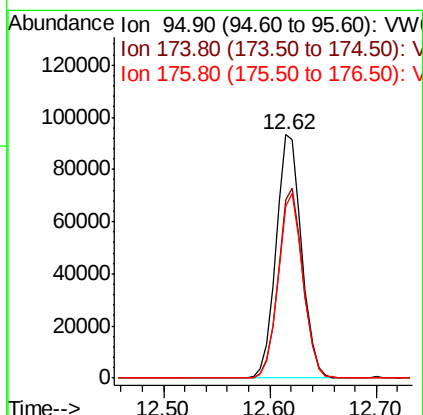
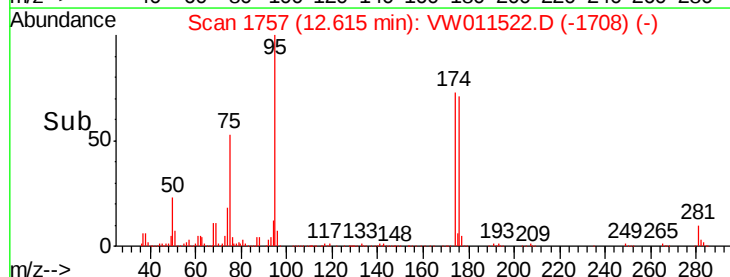
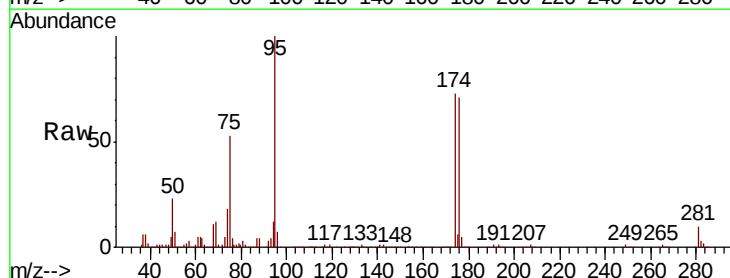
Tgt Ion: 95 Resp: 154684

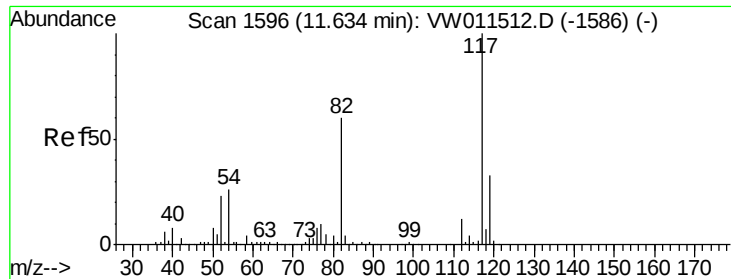
Ion Ratio Lower Upper

95 100

174 75.1 0.0 150.2

176 73.3 0.0 144.4

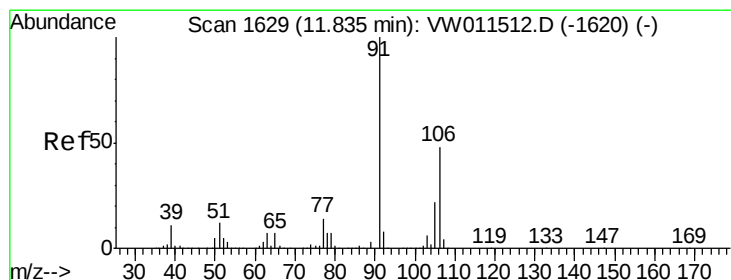
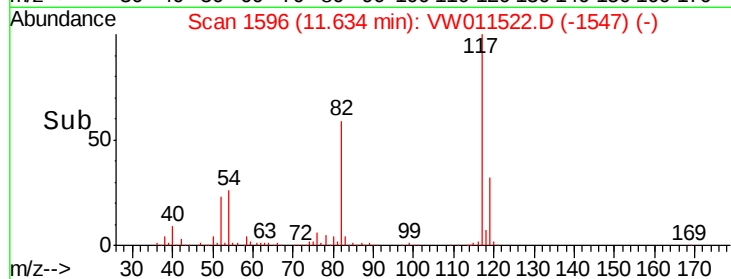
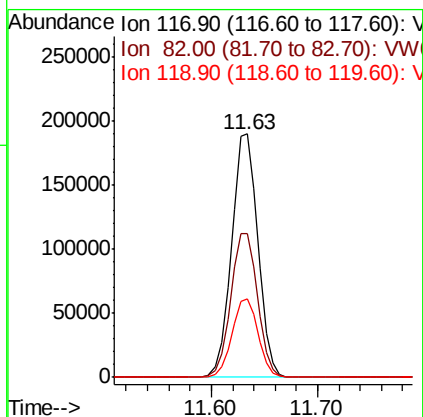
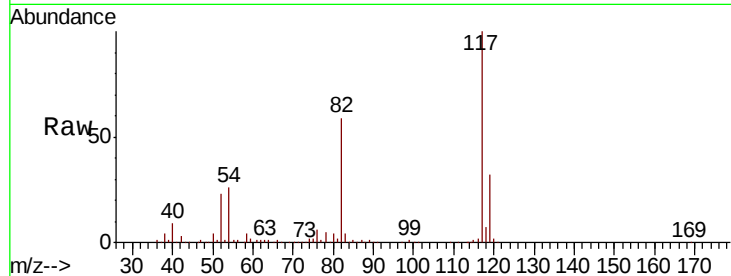




#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.63 min Scan# 1596
Delta R.T. -0.00 min
Lab File: VW011522.D
Acq: 26 Jul 2019 17:58

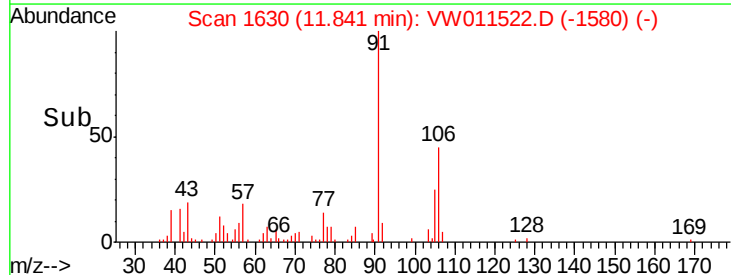
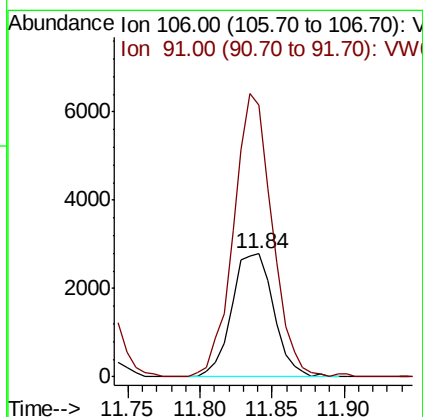
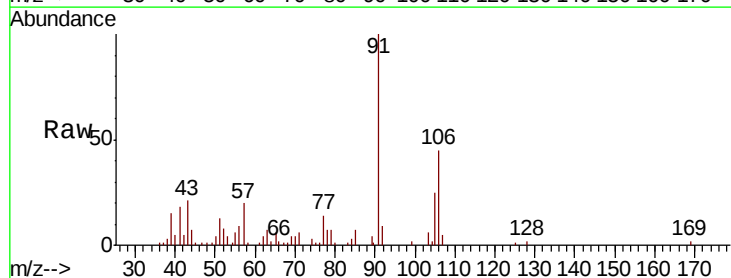
Instrument :
MSVOA_W
ClientSampleId :
SU-03-072519-B

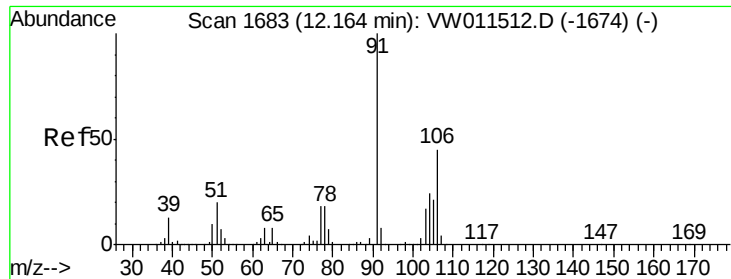
Tot Ion:117 Resp: 328636
Ion Ratio Lower Upper
117 100
82 59.2 47.9 71.9
119 32.0 26.2 39.2



#68
m/p-Xylenes
Concen: 1.233 ug/l
RT: 11.84 min Scan# 1630
Delta R.T. 0.01 min
Lab File: VW011522.D
Acq: 26 Jul 2019 17:58

Tgt Ion:106 Resp: 5641
Ion Ratio Lower Upper
106 100
91 211.3 168.2 252.2

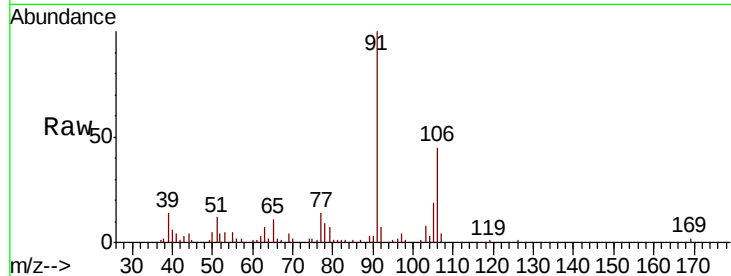




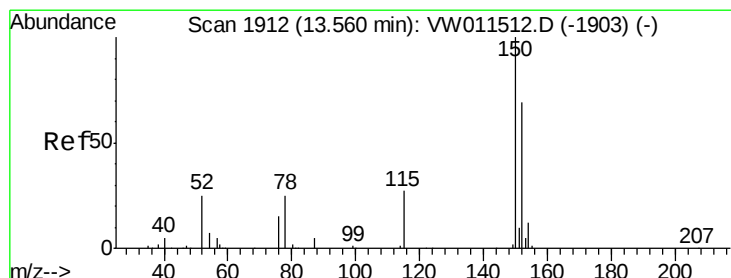
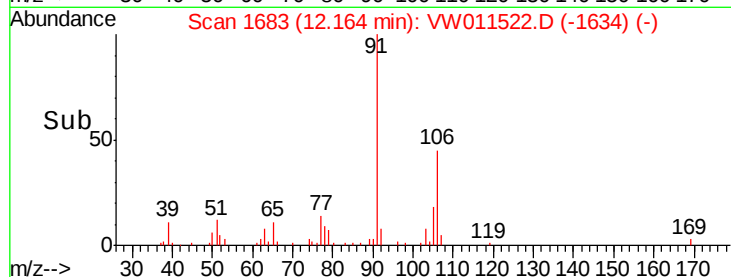
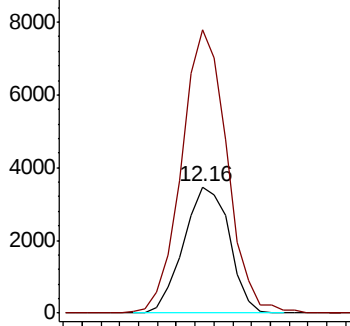
#69
o-Xylene
Concen: 1.371 ug/l
RT: 12.16 min Scan# 1683
Delta R.T. -0.00 min
Lab File: VW011522.D
Acq: 26 Jul 2019 17:58

Instrument :
MSVOA_W
ClientSampleId :
SU-03-072519-B

Tot Ion:106 Resp: 5830
Ion Ratio Lower Upper
106 100
91 223.0 110.5 331.5

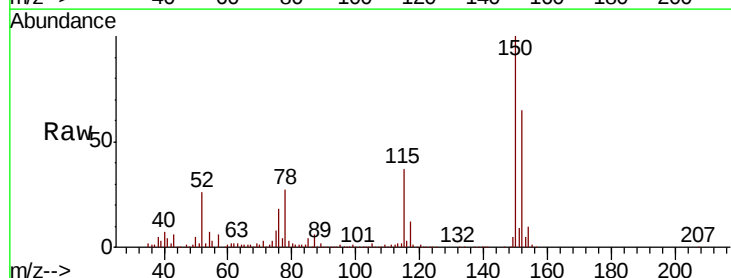


Abundance Ion 106.00 (105.70 to 106.70): V
Ion 91.00 (90.70 to 91.70): V

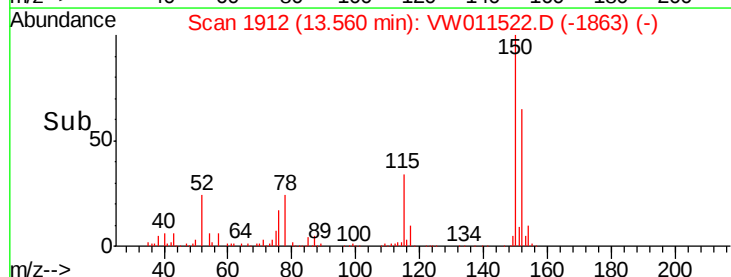
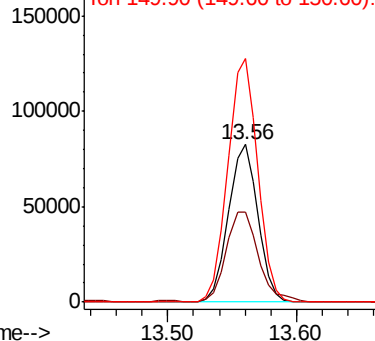


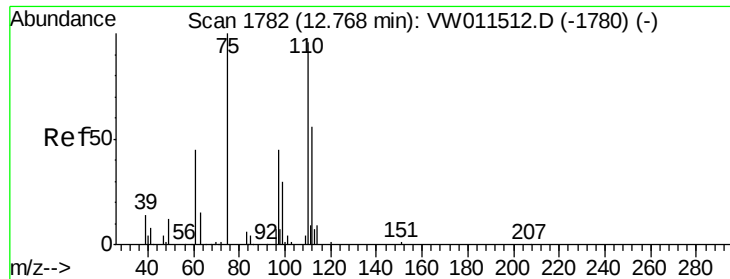
#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 13.56 min Scan# 1912
Delta R.T. -0.00 min
Lab File: VW011522.D
Acq: 26 Jul 2019 17:58

Tgt Ion:152 Resp: 130636
Ion Ratio Lower Upper
152 100
115 62.5 30.5 91.5
150 155.9 0.0 352.6



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

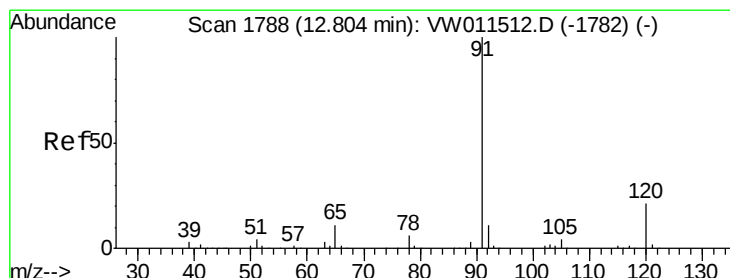
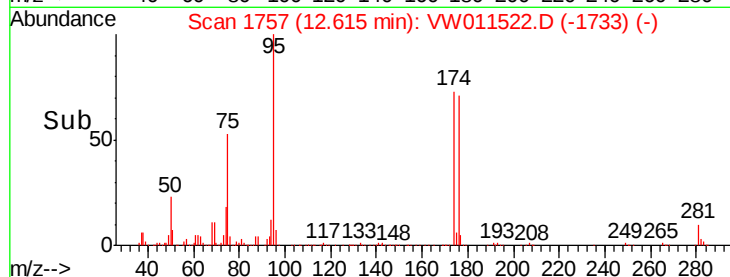
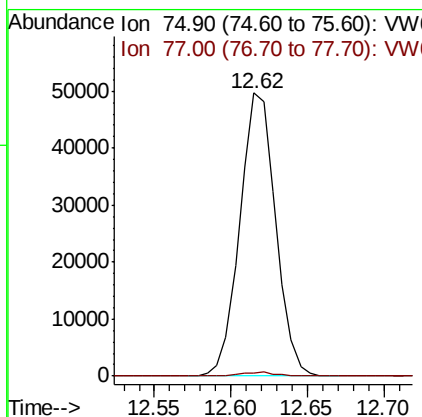
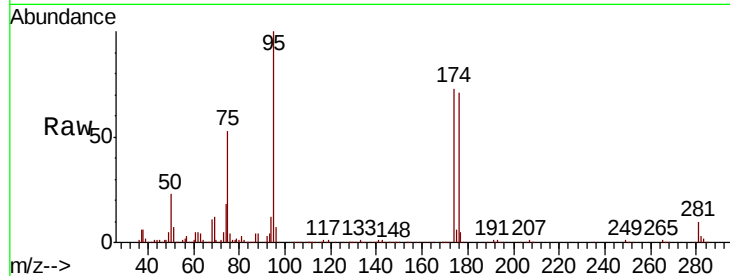




#76
 1,2,3-Trichloropropane
 Concen: 58.341 ug/l
 RT: 12.62 min Scan# 1757
 Delta R.T. -0.15 min
 Lab File: VW011522.D
 Acq: 26 Jul 2019 17:58

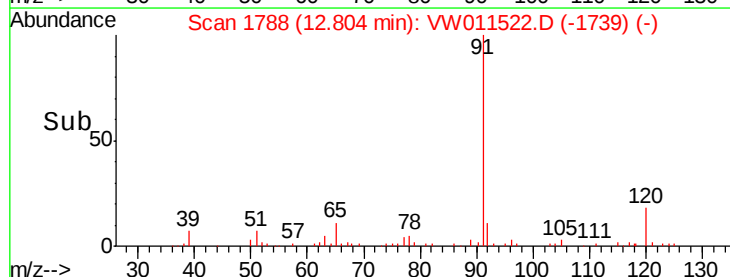
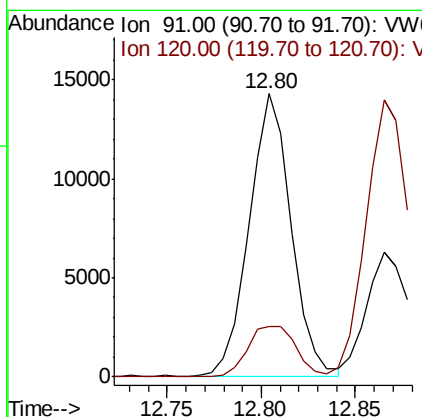
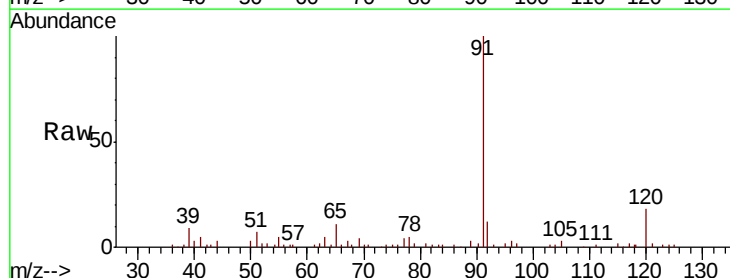
Instrument :
 MSVOA_W
 ClientSampleId :
 SU-03-072519-B

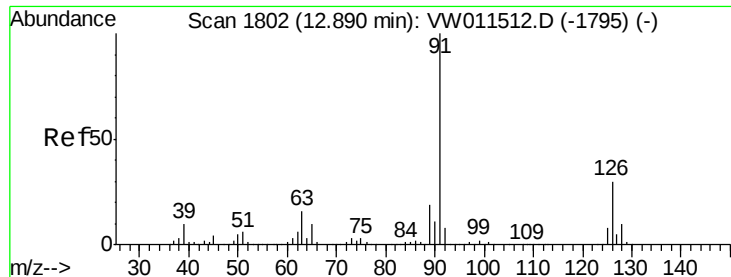
Tot Ion: 75 Resp: 80644
 Ion Ratio Lower Upper
 75 100
 77 1.6 0.0 0.0#



#78
 n-propylbenzene
 Concen: 1.866 ug/l
 RT: 12.80 min Scan# 1788
 Delta R.T. -0.00 min
 Lab File: VW011522.D
 Acq: 26 Jul 2019 17:58

Tgt Ion: 91 Resp: 22128
 Ion Ratio Lower Upper
 91 100
 120 20.6 10.9 32.7





#79

2-Chlorotoluene

Concen: 1.350 ug/l

RT: 12.87 min Scan# 1798

Delta R.T. -0.02 min

Lab File: VW011522.D

Acq: 26 Jul 2019 17:58

Instrument :

MSVOA_W

ClientSampleId :

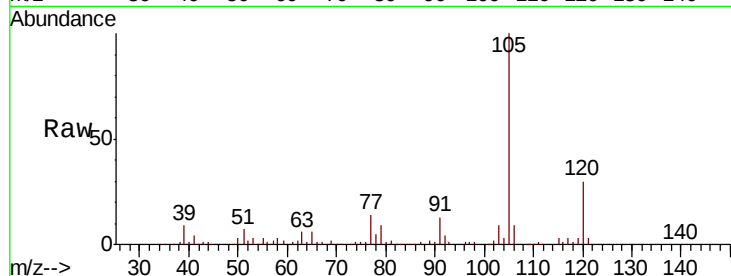
SU-03-072519-B

Tot Ion: 91 Resp: 9225

Ion Ratio Lower Upper

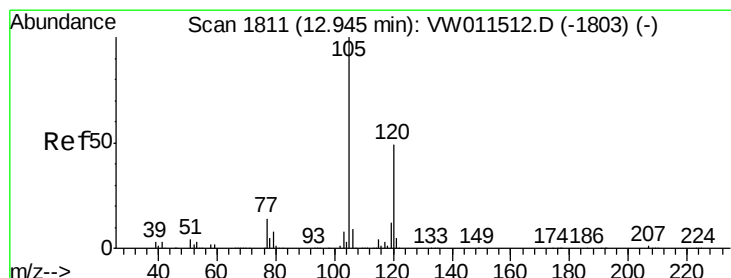
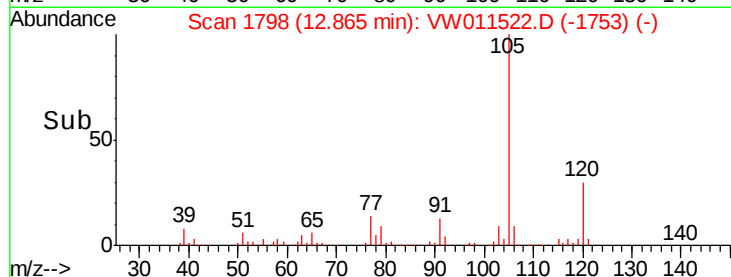
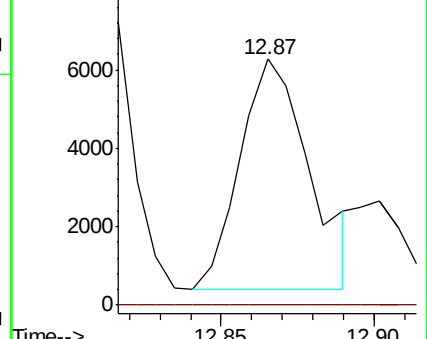
91 100

126 0.0 15.7 47.1#



Abundance Ion 91.00 (90.70 to 91.70): VW

Ion 125.90 (125.60 to 126.60): V



#80

1,3,5-Trimethylbenzene

Concen: 5.481 ug/l

RT: 12.94 min Scan# 1811

Delta R.T. -0.00 min

Lab File: VW011522.D

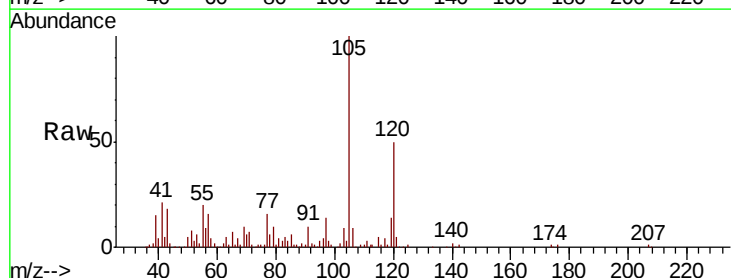
Acq: 26 Jul 2019 17:58

Tgt Ion:105 Resp: 44774

Ion Ratio Lower Upper

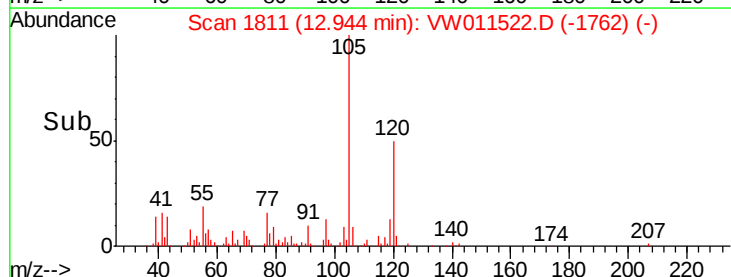
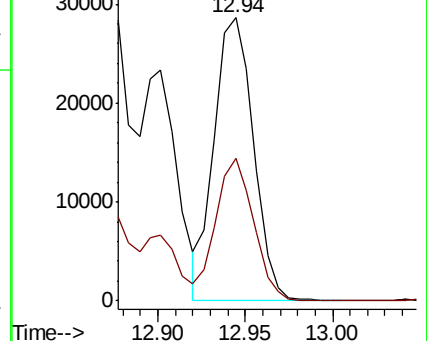
105 100

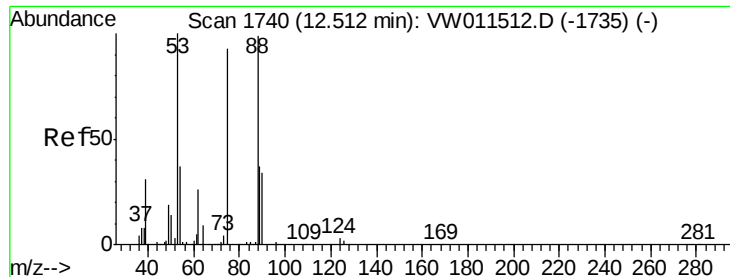
120 48.4 24.1 72.3



Abundance Ion 105.00 (104.70 to 105.70): V

Ion 120.00 (119.70 to 120.70): V





#81

trans-1,4-Dichloro-2-butene

Concen: 134.457 ug/l

RT: 12.62 min Scan# 1757

Delta R.T. 0.10 min

Lab File: VW011522.D

Acq: 26 Jul 2019 17:58

Instrument :

MSVOA_W

ClientSampleId :

SU-03-072519-B

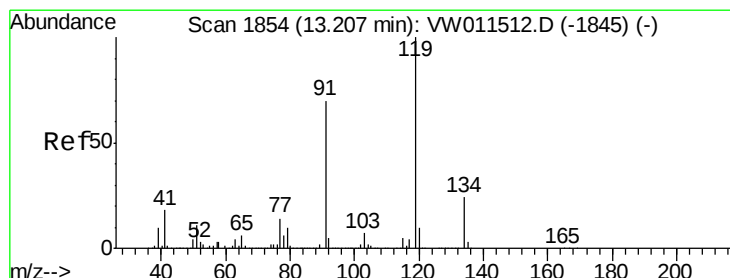
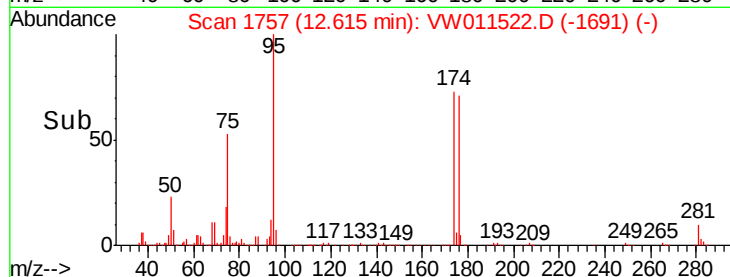
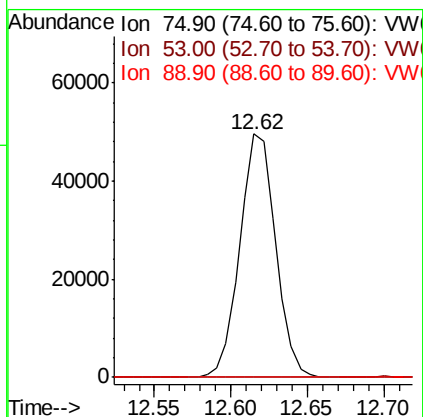
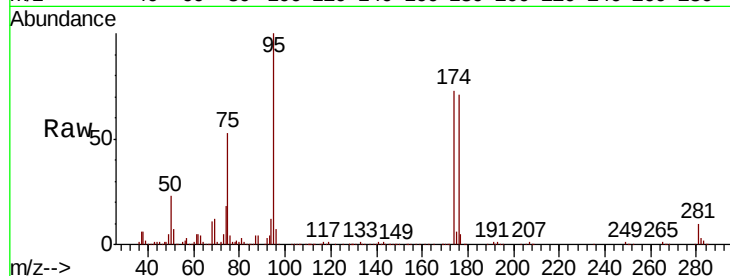
Tot Ion: 75 Resp: 80644

Ion Ratio Lower Upper

75 100

53 0.2 88.0 132.0#

89 0.1 35.3 52.9#



#83

tert-Butylbenzene

Concen: 3.712 ug/l

RT: 13.25 min Scan# 1861

Delta R.T. 0.04 min

Lab File: VW011522.D

Acq: 26 Jul 2019 17:58

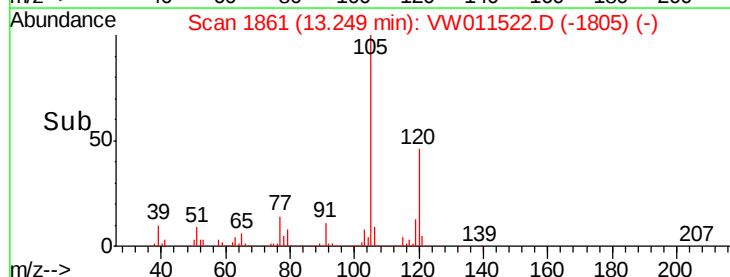
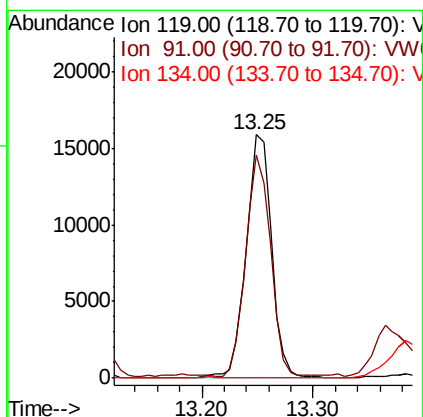
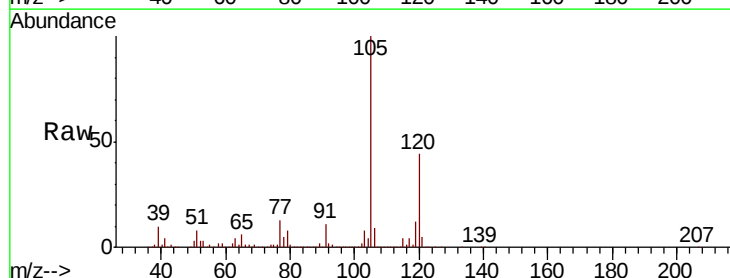
Tgt Ion: 119 Resp: 25358

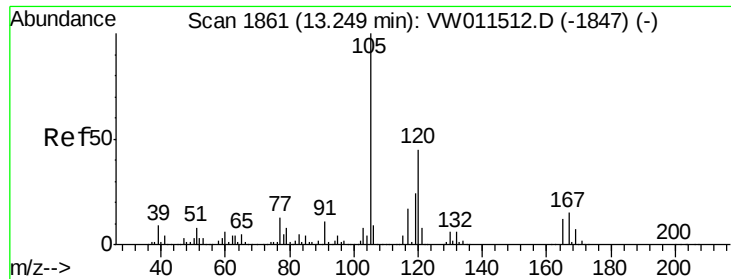
Ion Ratio Lower Upper

119 100

91 88.3 34.5 103.6

134 0.0 12.4 37.4#

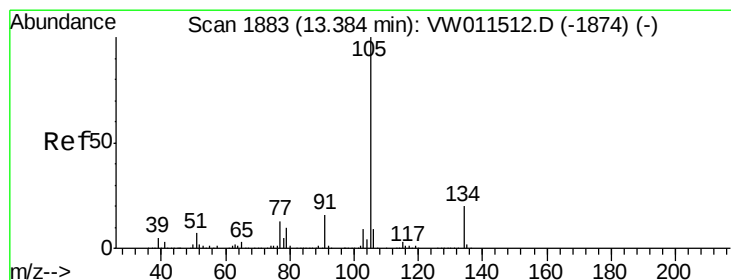
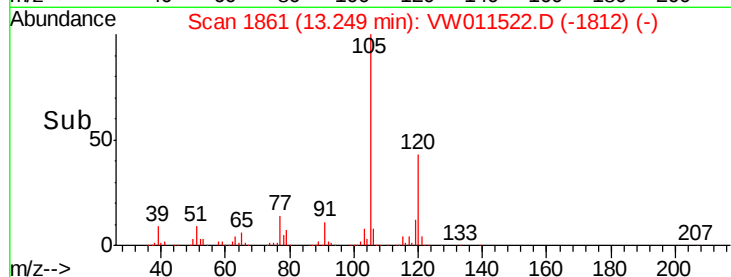
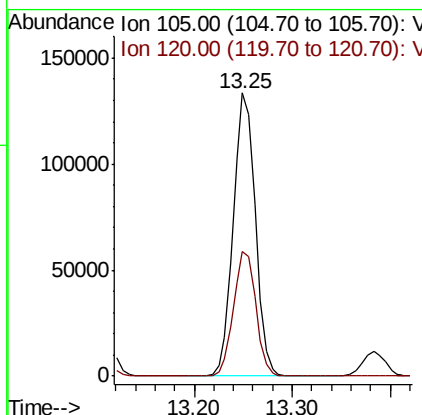
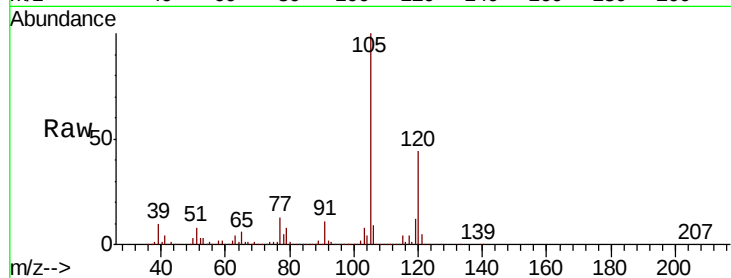




#84
 1,2,4-Trimethylbenzene
 Concen: 25.424 ug/l
 RT: 13.25 min Scan# 1861
 Delta R.T. -0.00 min
 Lab File: VW011522.D
 Acq: 26 Jul 2019 17:58

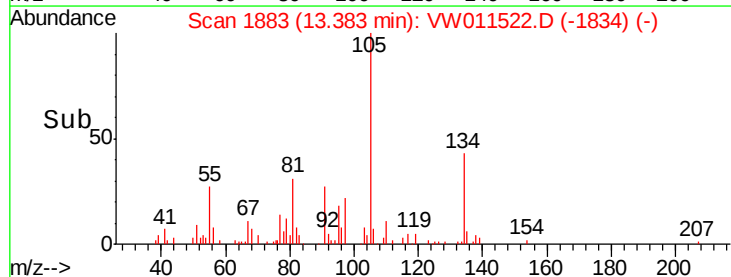
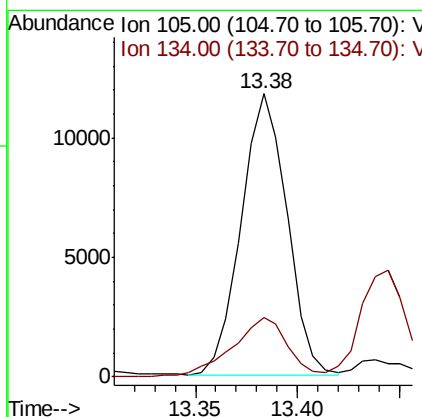
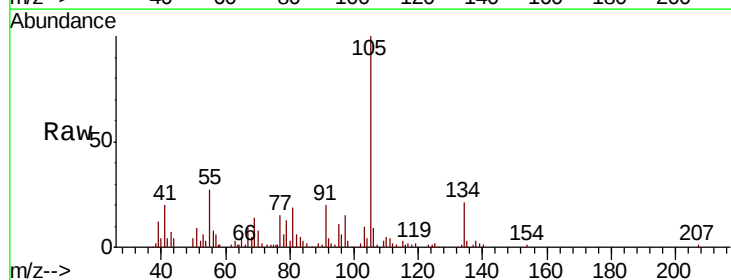
Instrument :
 MSVOA_W
 ClientSampleId :
 SU-03-072519-B

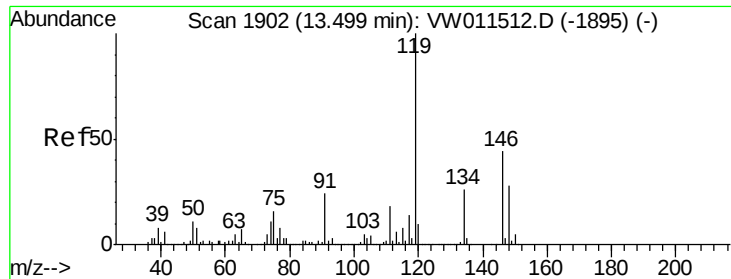
Tot Ion:105 Resp: 209225
 Ion Ratio Lower Upper
 105 100
 120 44.6 22.1 66.5



#85
 sec-Butylbenzene
 Concen: 1.881 ug/l
 RT: 13.38 min Scan# 1883
 Delta R.T. -0.00 min
 Lab File: VW011522.D
 Acq: 26 Jul 2019 17:58

Tgt Ion:105 Resp: 18338
 Ion Ratio Lower Upper
 105 100
 134 25.6 9.7 29.1

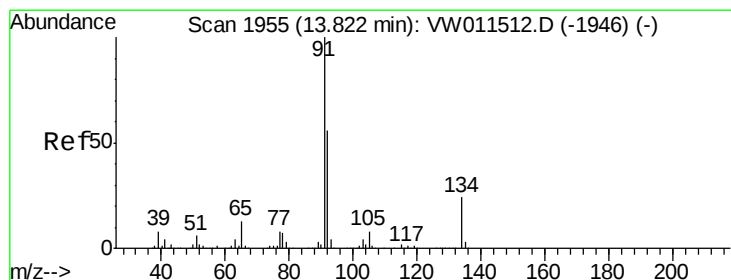
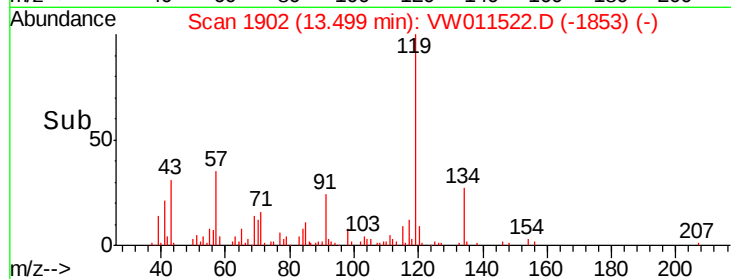
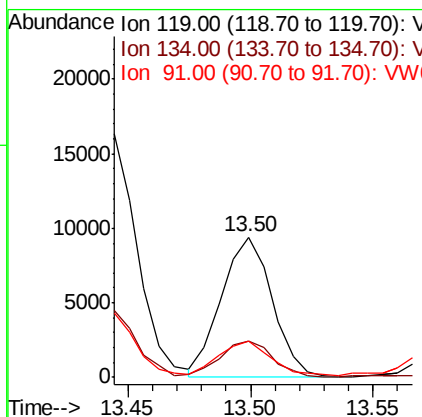
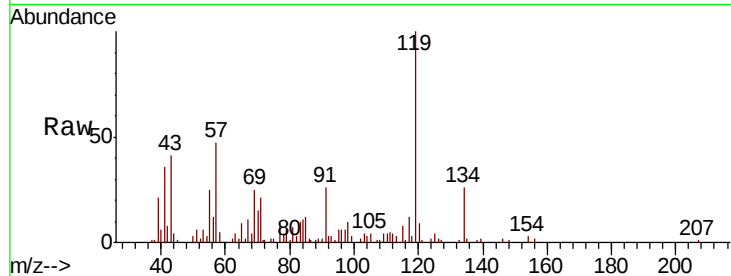




#86
 p-Isopropyltoluene
 Concen: 1.544 ug/l
 RT: 13.50 min Scan# 1902
 Delta R.T. -0.00 min
 Lab File: VW011522.D
 Acq: 26 Jul 2019 17:58

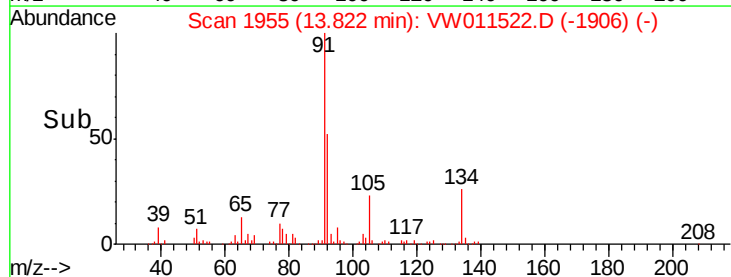
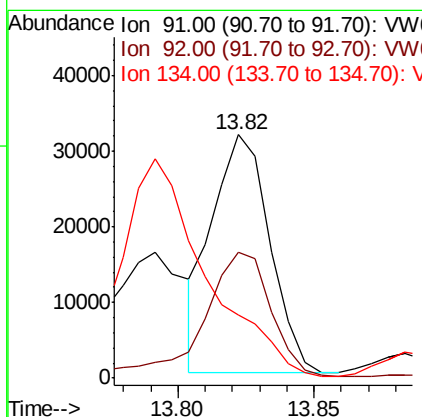
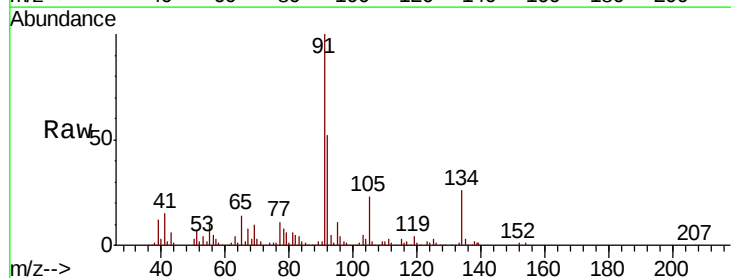
Instrument :
 MSVOA_W
 ClientSampleId :
 SU-03-072519-B

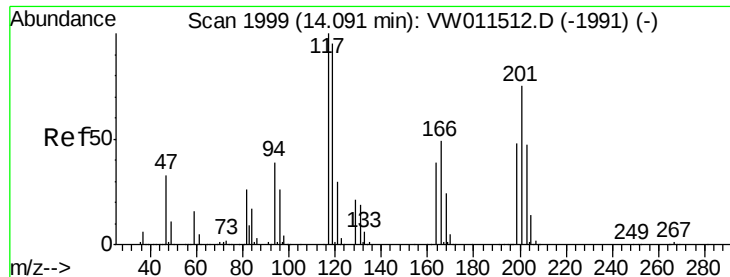
Tot Ion	Ratio	Lower	Upper
119	100		
134	27.3	12.8	38.4
91	23.9	12.1	36.3



#89
 n-Butylbenzene
 Concen: 5.224 ug/l
 RT: 13.82 min Scan# 1955
 Delta R.T. -0.00 min
 Lab File: VW011522.D
 Acq: 26 Jul 2019 17:58

Tgt Ion	Ratio	Lower	Upper
91	100		
92	60.0	27.5	82.4
134	0.0	12.2	36.6#





#90

Hexachloroethane

Concen: 9.309 ug/l

RT: 14.10 min Scan# 2000

Delta R.T. 0.01 min

Lab File: VW011522.D

Acq: 26 Jul 2019 17:58

Instrument :

MSVOA_W

ClientSampled :

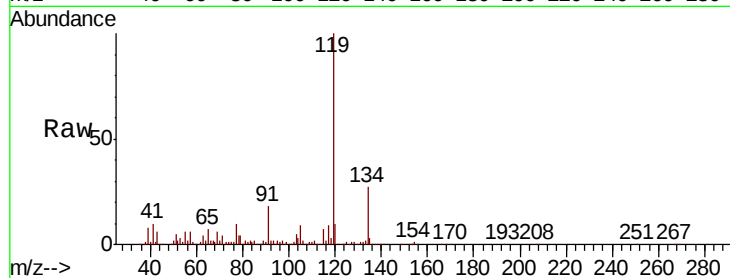
SU-03-072519-B

Tot Ion:117 Resp: 14559

Ion Ratio Lower Upper

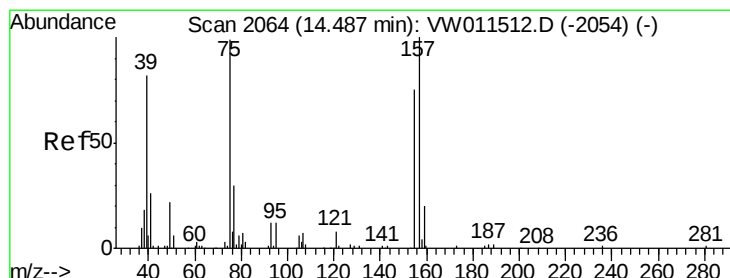
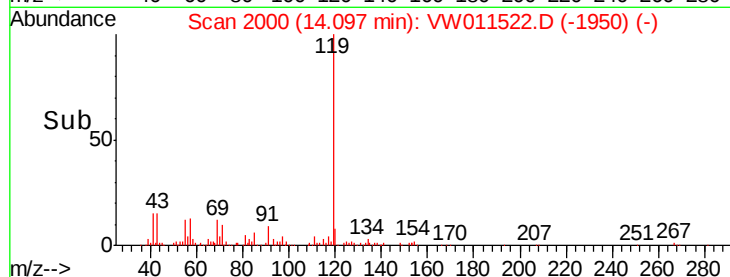
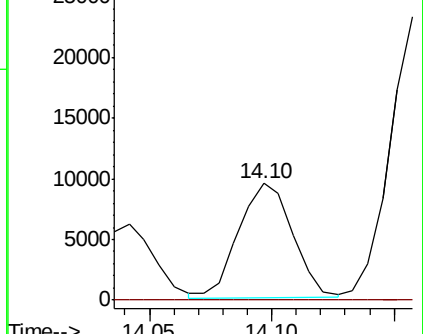
117 100

201 0.0 39.4 118.2#



Abundance Ion 116.80 (116.50 to 117.50): V

Ion 200.70 (200.40 to 201.40): V



#92

1,2-Dibromo-3-Chloropropane

Concen: 2.885 ug/l

RT: 14.51 min Scan# 2067

Delta R.T. 0.02 min

Lab File: VW011522.D

Acq: 26 Jul 2019 17:58

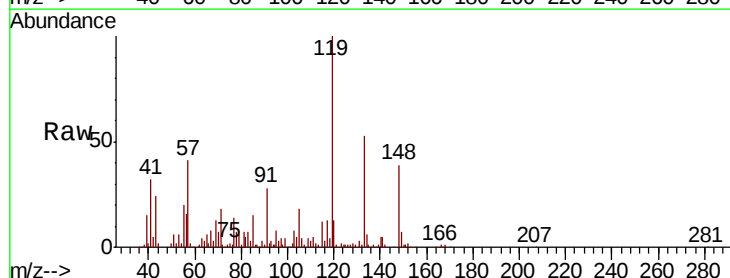
Tgt Ion: 75 Resp: 902

Ion Ratio Lower Upper

75 100

155 23.4 38.2 114.6#

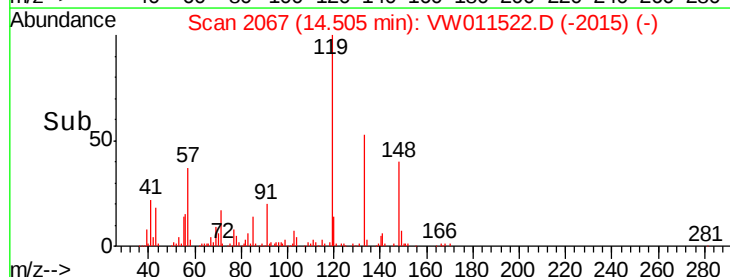
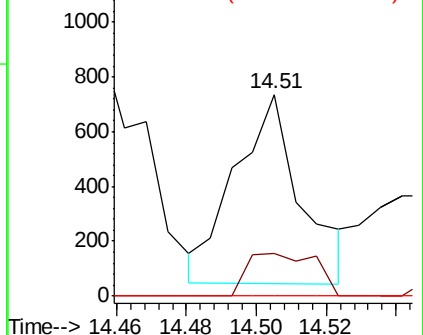
157 0.0 48.9 146.7#

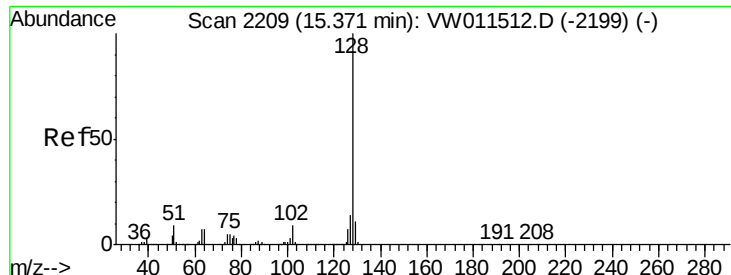


Abundance Ion 74.90 (74.60 to 75.60): VW

Ion 154.80 (154.50 to 155.50): V

Ion 156.80 (156.50 to 157.50): V





#95
Naphthalene
Concen: 10.474 ug/l
RT: 15.37 min Scan# 2209
Delta R.T. 0.00 min
Lab File: VW011522.D
Acq: 26 Jul 2019 17:58

Instrument :
MSVOA_W
ClientSampleId :
SU-03-072519-B

Tot Ion:128 Resp: 45234
Ion Ratio Lower Upper
128 100
127 12.1 10.6 16.0
129 7.5 8.6 13.0#

