

Data Path : Z:\VOASRV\HPCHEM1\MSVOA W\DATA\VW061919\
 Data File : VW010851.D
 Acq On : 19 Jun 2019 15:33
 Operator : SY/VA
 Sample : K3163-11RE
 Misc : 6.65G/5ML/MSVOA W/SOIL
 ALS Vial : 7 Sample Multiplier: 1

Instrument :
 MSVOA_W
 ClientSampleId :
 SU-03-061719-BRE

Quant Time: Jun 20 05:47:53 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_W\METHOD\82W060419S.M
 Quant Title : SW846 8260
 QLast Update : Wed Jun 05 03:21:19 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	7.95	168	229217	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	8.84	114	390352	50.00	ug/l	0.00
63) Chlorobenzene-d5	11.63	117	310365	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.56	152	106435	50.00	ug/l	0.00

System Monitoring Compounds	R.T.	QIon	Response	Conc	Units	Dev(Min)
33) 1,2-Dichloroethane-d4	8.31	65	163223	60.41	ug/l	0.00
Spiked Amount			Recovery	=	120.82%	
35) Dibromofluoromethane	7.88	113	117915	55.65	ug/l	0.00
Spiked Amount			Recovery	=	111.30%	
50) Toluene-d8	10.32	98	455230	49.00	ug/l	0.00
Spiked Amount			Recovery	=	98.00%	
62) 4-Bromofluorobenzene	12.62	95	144531	42.75	ug/l	0.00
Spiked Amount			Recovery	=	85.50%	

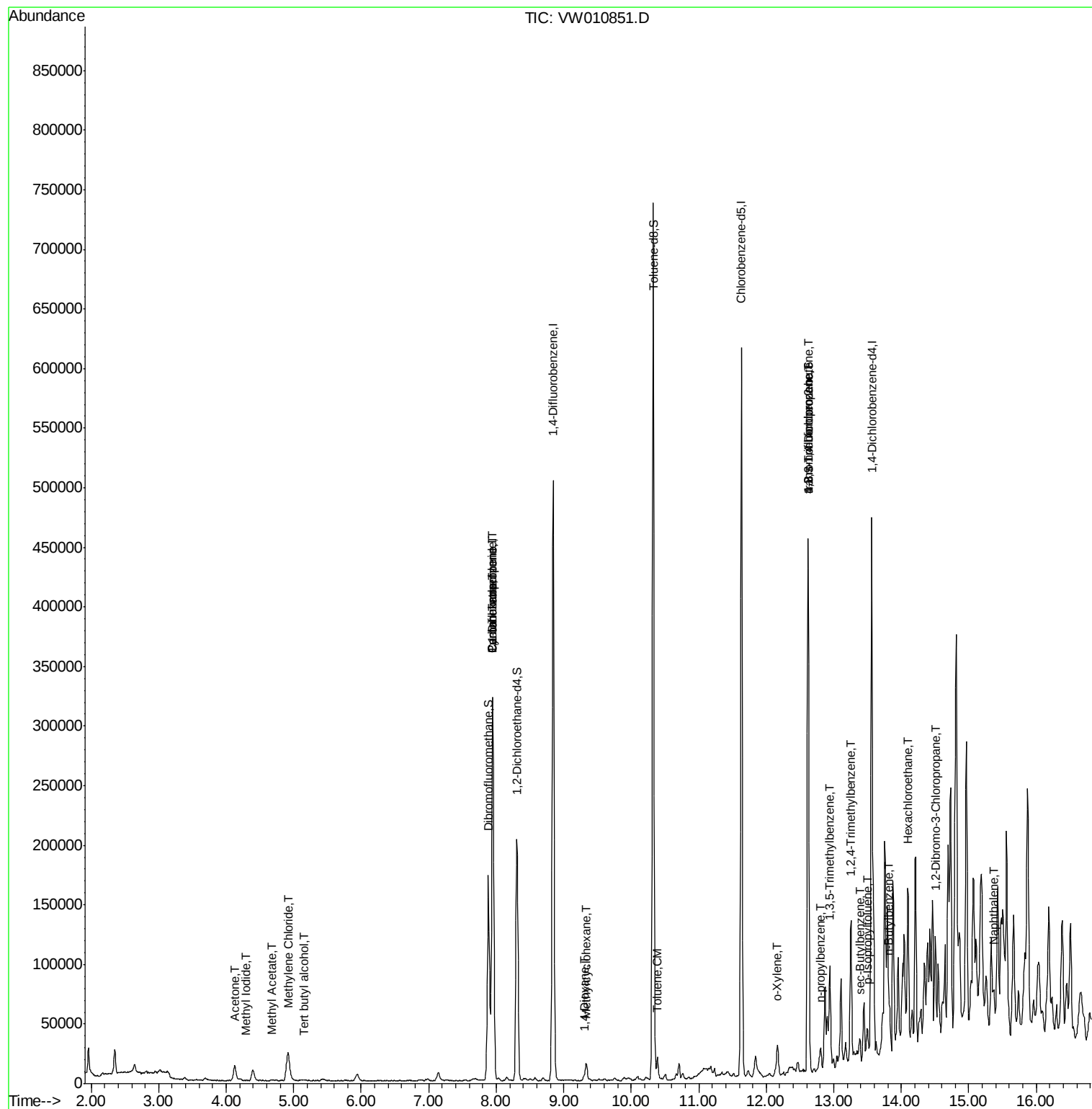
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
10) Methyl Iodide	4.29	142	69	4.825	ug/l #	41
11) Tert butyl alcohol	5.17	59	248	1.127	ug/l	96
16) Acetone	4.13	43	24526	33.879	ug/l	99
18) Methyl Acetate	4.68	43	1812	1.163	ug/l #	70
20) Methylene Chloride	4.92	84	16851	6.635	ug/l	96
31) Cyclohexane	7.95	56	7996	1.467	ug/l #	17
36) 1,1-Dichloropropene	7.95	75	20638	5.165	ug/l #	51
38) Carbon Tetrachloride	7.95	117	23729	6.879	ug/l #	18
39) Methylcyclohexane	9.34	83	5248	1.033	ug/l	98
49) 1,4-Dioxane	9.30	88	46	2.195	ug/l #	15
52) Toluene	10.38	92	7178	1.070	ug/l	99
69) o-Xylene	12.16	106	6280	1.577	ug/l	94
76) 1,2,3-Trichloropropane	12.62	75	79847	71.438	ug/l #	100
78) n-propylbenzene	12.80	91	13311	1.380	ug/l	98
80) 1,3,5-Trimethylbenzene	12.94	105	30266	4.623	ug/l	99
81) trans-1,4-Dichloro-2-buten	12.62	75	79847	164.188	ug/l #	5
84) 1,2,4-Trimethylbenzene	13.26	105	63187	9.591	ug/l	100
85) sec-Butylbenzene	13.39	105	11985	1.482	ug/l	88
86) p-Isopropyltoluene	13.50	119	8736	1.208	ug/l	98
89) n-Butylbenzene	13.82	91	20780	2.879	ug/l #	80
90) Hexachloroethane	14.10	117	5989	4.623	ug/l #	11
92) 1,2-Dibromo-3-Chloropropan	14.51	75	424	1.622	ug/l #	16
95) Naphthalene	15.37	128	13301	3.445	ug/l #	94

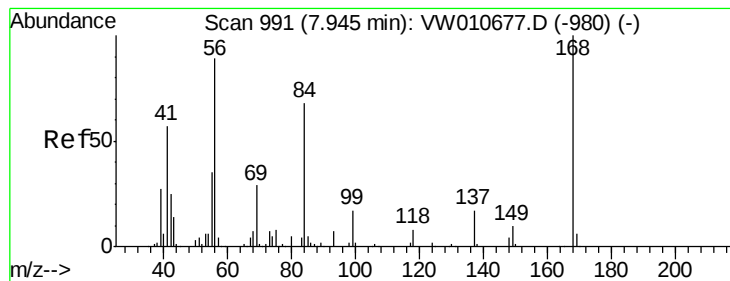
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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Quant Time: Jun 20 05:47:53 2019
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Quant Title : SW846 8260
QLast Update : Wed Jun 05 03:21:19 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: VW010851.D

Acq: 19 Jun 2019 15:33

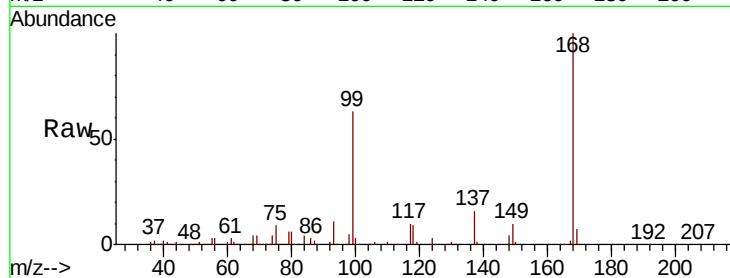
Instrument :
MSVOA_W
ClientSampleId :
SU-03-061719-BRE

Tot Ion:168 Resp: 229217

Ion Ratio Lower Upper

168 100

99 63.0 47.7 71.5



Abundance Ion 167.90 (167.60 to 168.60): V
Ion 98.90 (98.60 to 99.60): V

120000

100000

80000

60000

40000

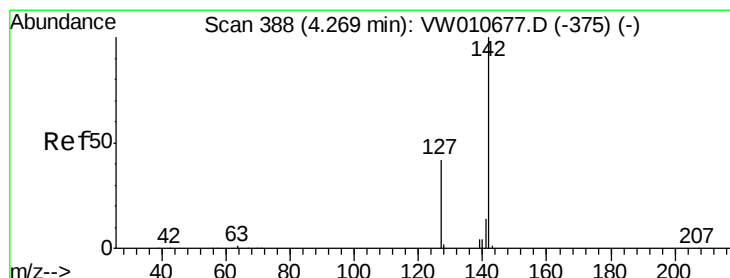
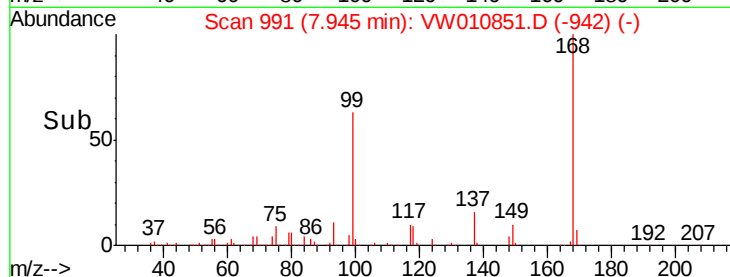
20000

0

7.90

8.00

Time-->



#10

Methyl Iodide

Concen: 4.825 ug/l

RT: 4.29 min Scan# 392

Delta R.T. 0.02 min

Lab File: VW010851.D

Acq: 19 Jun 2019 15:33

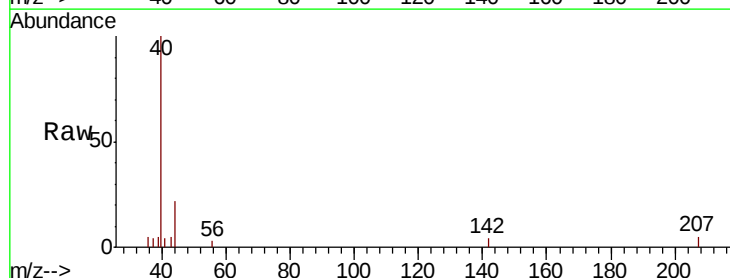
Tgt Ion:142 Resp: 69

Ion Ratio Lower Upper

142 100

127 0.0 34.6 51.8#

141 0.0 11.6 17.4#



Abundance Ion 141.80 (141.50 to 142.50): V
Ion 126.80 (126.50 to 127.50): V
Ion 140.80 (140.50 to 141.50): V

100

80

60

40

20

0

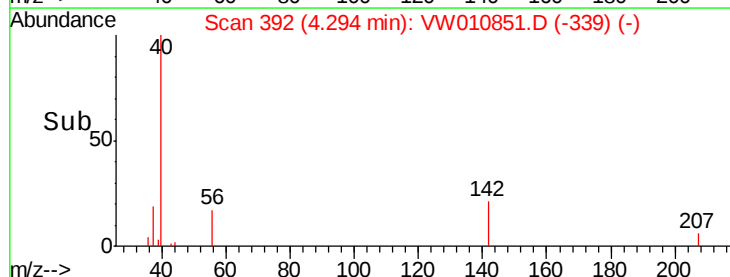
4.26

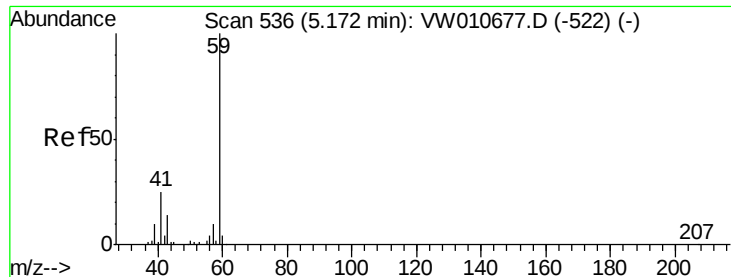
4.28

4.30

4.32

Time-->

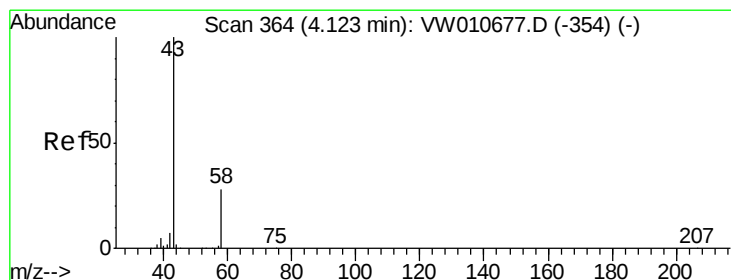
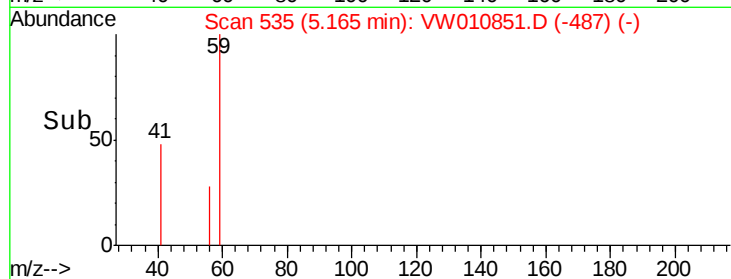
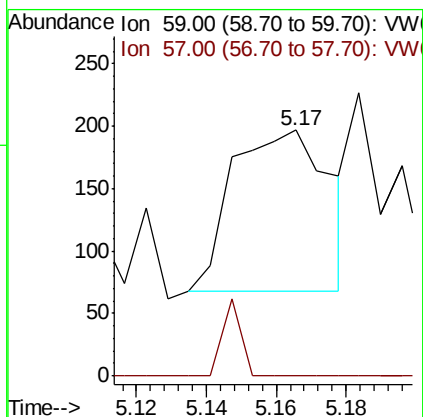
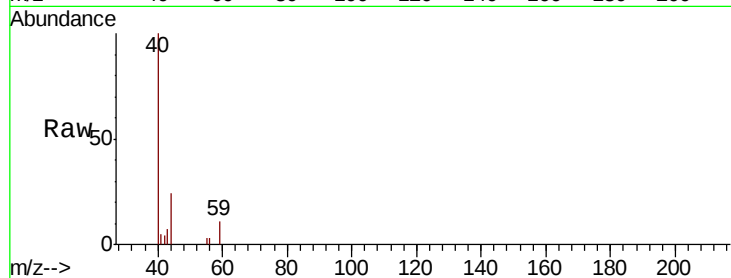




#11
Tert butyl alcohol
Concen: 1.127 ug/l
RT: 5.17 min Scan# 535
Delta R.T. -0.01 min
Lab File: VW010851.D
Acq: 19 Jun 2019 15:33

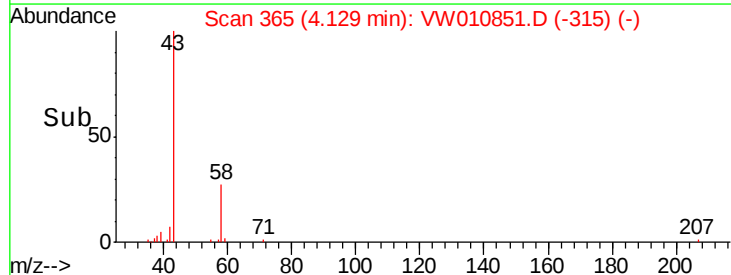
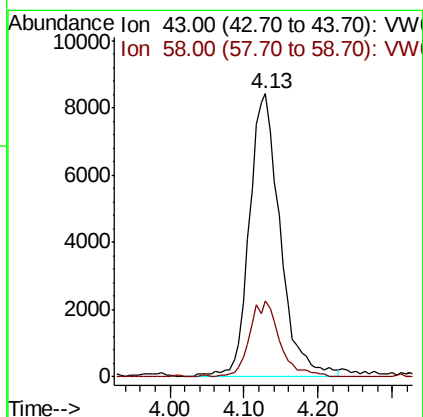
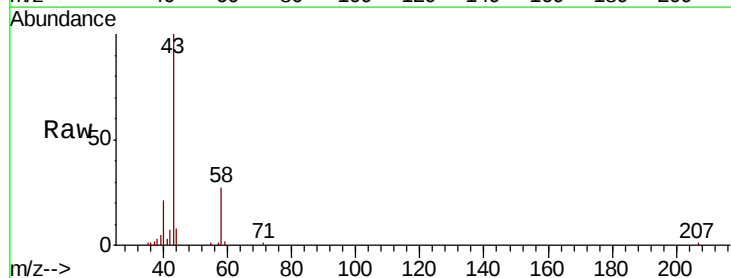
Instrument :
MSVOA_W
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SU-03-061719-BRE

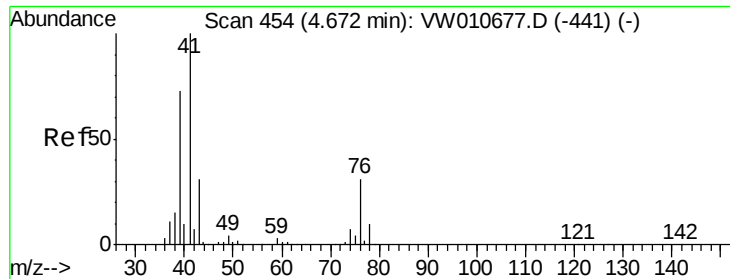
Tot Ion: 59 Resp: 248
Ion Ratio Lower Upper
59 100
57 9.3 8.6 12.8



#16
Acetone
Concen: 33.879 ug/l
RT: 4.13 min Scan# 365
Delta R.T. 0.01 min
Lab File: VW010851.D
Acq: 19 Jun 2019 15:33

Tgt Ion: 43 Resp: 24526
Ion Ratio Lower Upper
43 100
58 27.0 22.1 33.1

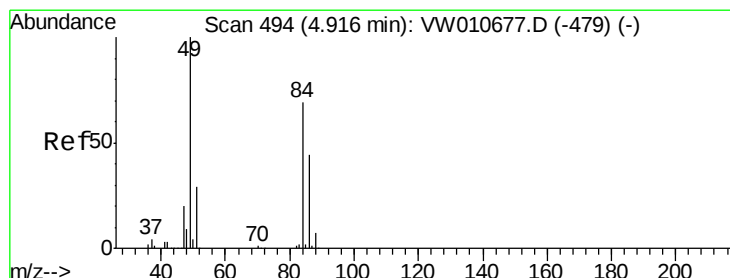
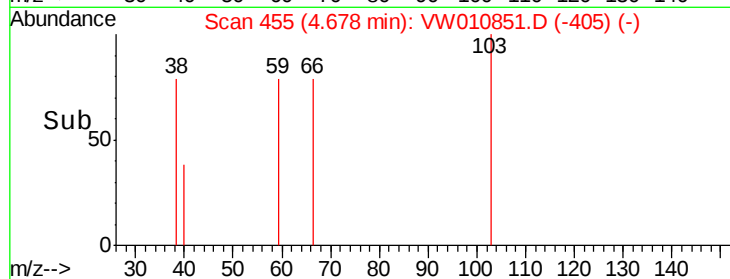
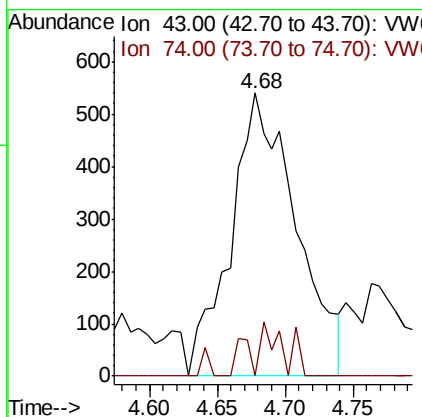
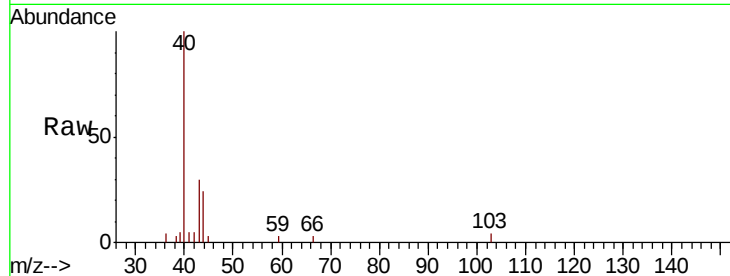




#18
Methvl Acetate
Concen: 1.163 ug/l
RT: 4.68 min Scan# 455
Delta R.T. 0.01 min
Lab File: VW010851.D
Acq: 19 Jun 2019 15:33

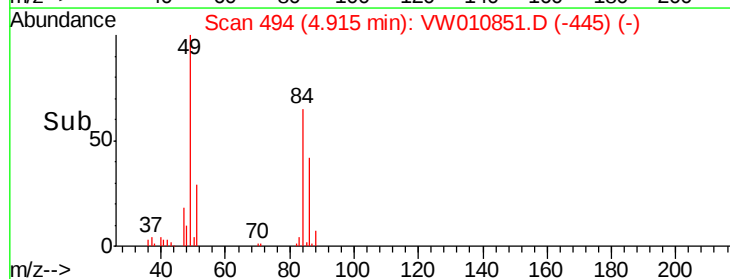
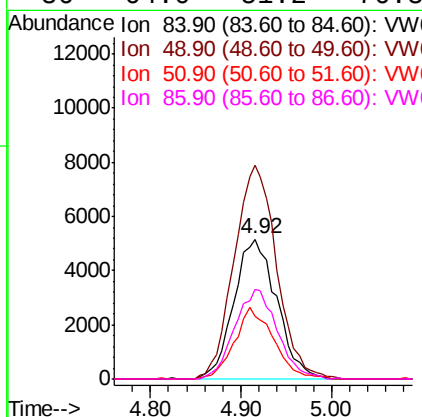
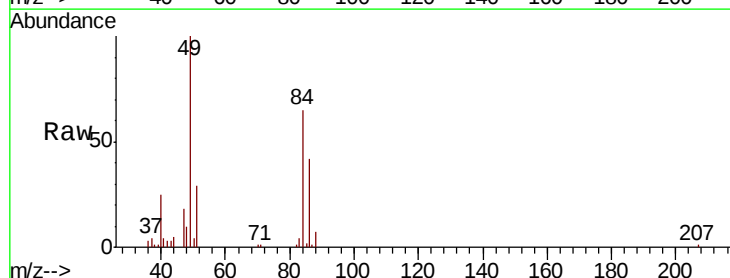
Instrument :
MSVOA_W
ClientSampleId :
SU-03-061719-BRE

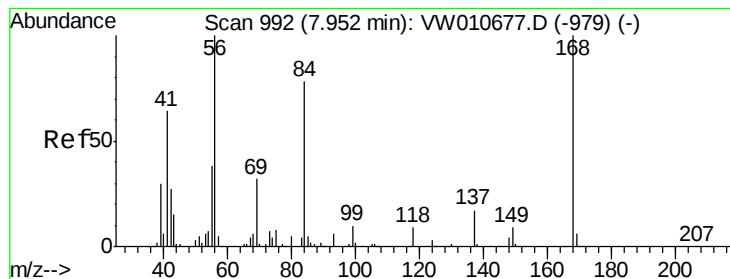
Tot Ion: 43 Resp: 1812
Ion Ratio Lower Upper
43 100
74 6.7 16.7 25.1#



#20
Methylene Chloride
Concen: 6.635 ug/l
RT: 4.92 min Scan# 494
Delta R.T. -0.00 min
Lab File: VW010851.D
Acq: 19 Jun 2019 15:33

Tgt Ion: 84 Resp: 16851
Ion Ratio Lower Upper
84 100
49 152.8 116.7 175.1
51 44.9 34.2 51.2
86 64.0 51.2 76.8





#31

Cyclohexane

Concen: 1.467 ug/l

RT: 7.95 min Scan# 991

Delta R.T. -0.01 min

Lab File: VW010851.D

Acq: 19 Jun 2019 15:33

Instrument :

MSVOA_W

ClientSampleId :

SU-03-061719-BRE

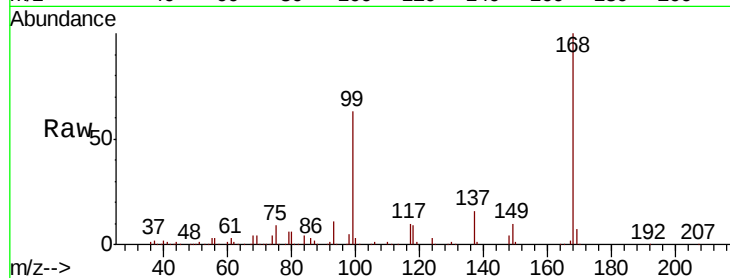
Tot Ion: 56 Resp: 7996

Ion Ratio Lower Upper

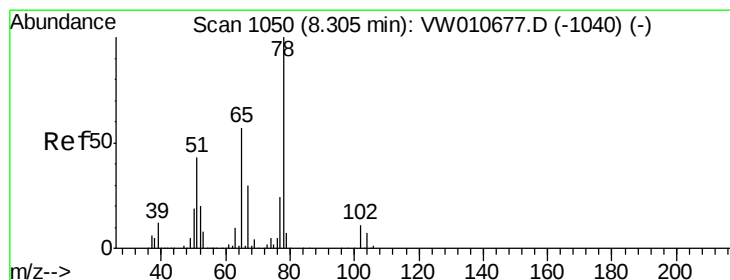
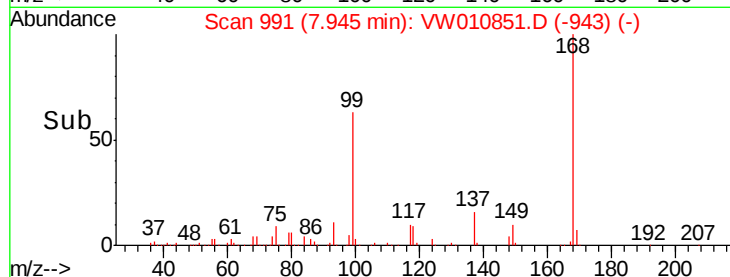
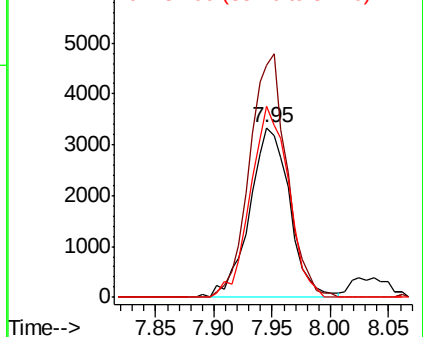
56 100

69 136.8 25.2 37.8#

84 112.6 62.2 93.2#



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: 60.415 ug/l

RT: 8.31 min Scan# 1050

Delta R.T. -0.00 min

Lab File: VW010851.D

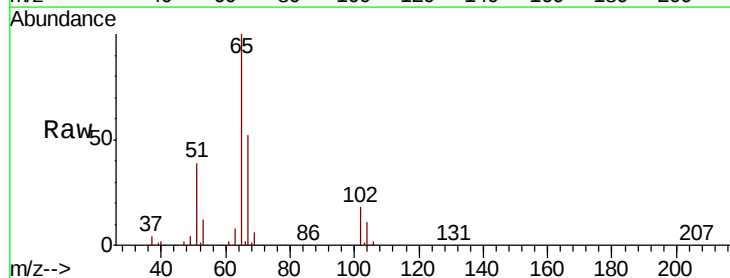
Acq: 19 Jun 2019 15:33

Tgt Ion: 65 Resp: 163223

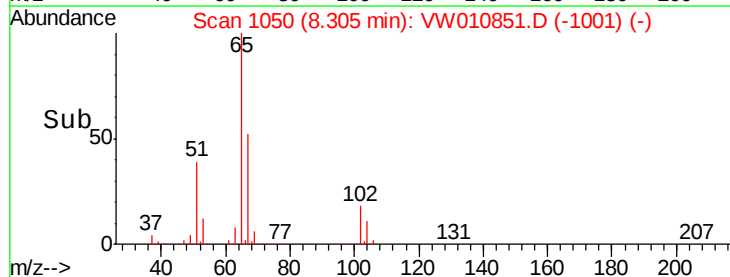
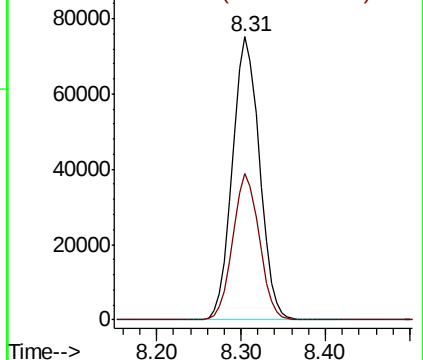
Ion Ratio Lower Upper

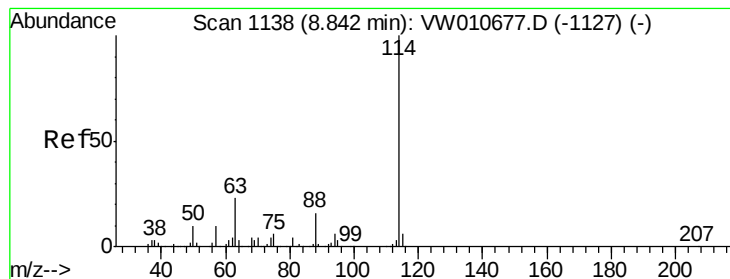
65 100

67 50.6 0.0 102.6



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: VW010851.D

Acq: 19 Jun 2019 15:33

Instrument :

MSVOA_W

ClientSampleId :

SU-03-061719-BRE

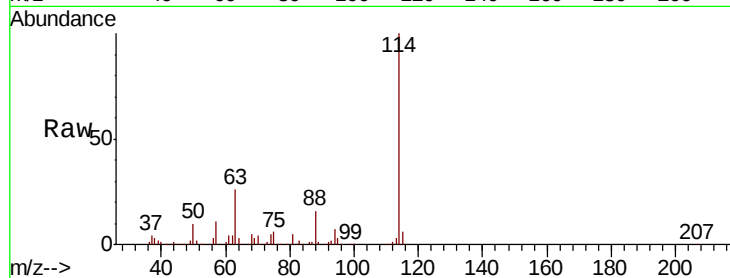
Tot Ion:114 Resp: 390352

Ion Ratio Lower Upper

114 100

63 25.6 0.0 46.4

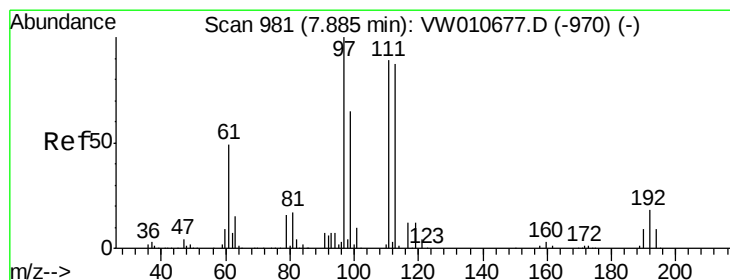
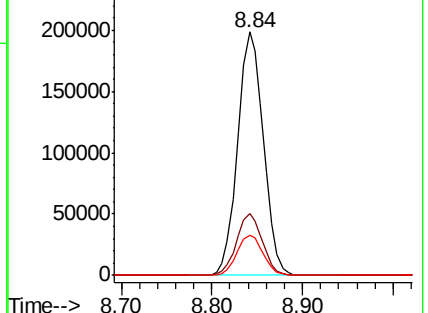
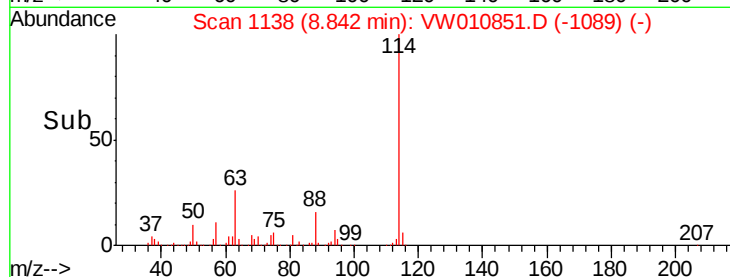
88 16.2 0.0 32.2



Abundance Ion 113.90 (113.60 to 114.60): V

Ion 63.00 (62.70 to 63.70): VW

Ion 87.90 (87.60 to 88.60): VW



#35

Dibromofluoromethane

Concen: 55.653 ug/l

RT: 7.88 min Scan# 981

Delta R.T. -0.00 min

Lab File: VW010851.D

Acq: 19 Jun 2019 15:33

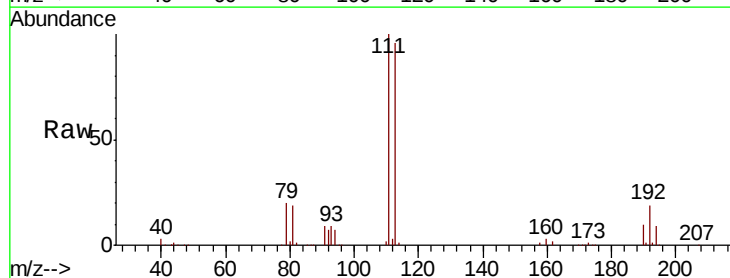
Tgt Ion:113 Resp: 117915

Ion Ratio Lower Upper

113 100

111 103.2 82.6 123.8

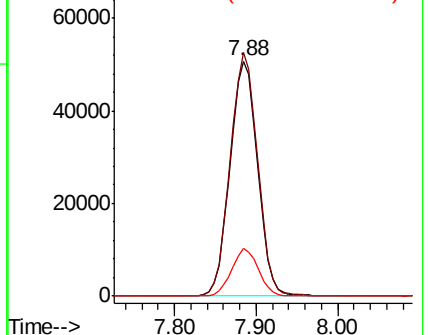
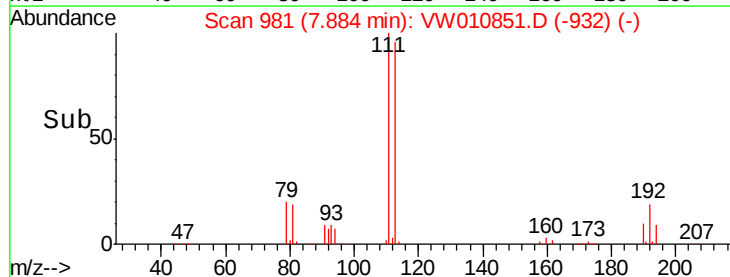
192 19.8 16.4 24.6

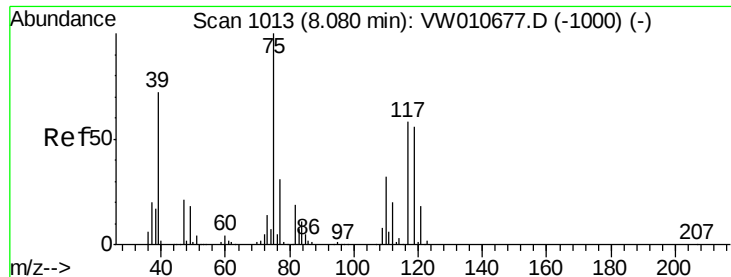


Abundance Ion 112.80 (112.50 to 113.50): V

Ion 110.80 (110.50 to 111.50): V

Ion 191.70 (191.40 to 192.40): V

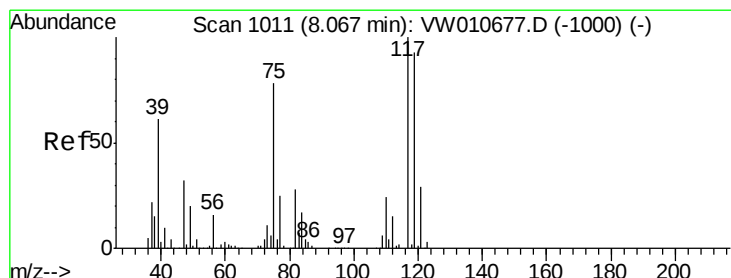
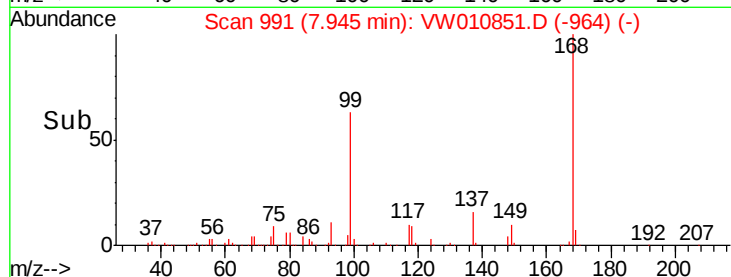
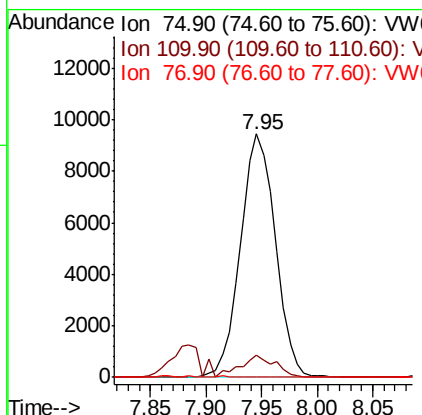
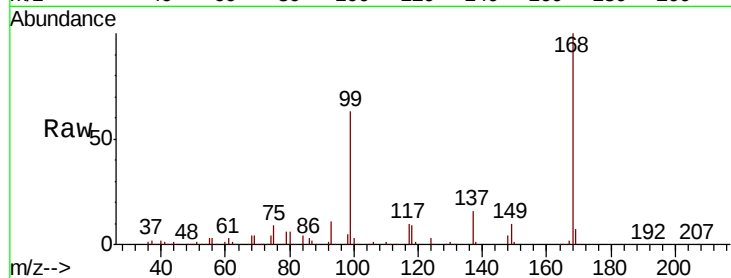




#36
 1,1-Dichloropropene
 Concen: 5.165 ug/l
 RT: 7.95 min Scan# 991
 Delta R.T. -0.13 min
 Lab File: VW010851.D
 Acq: 19 Jun 2019 15:33

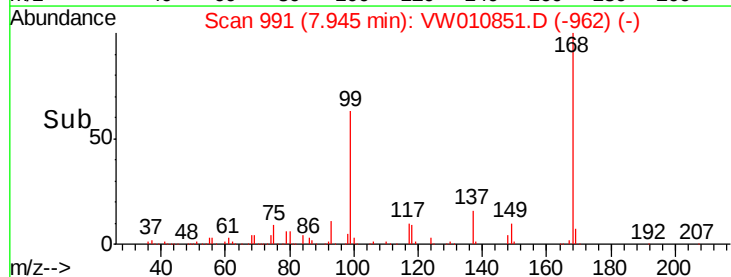
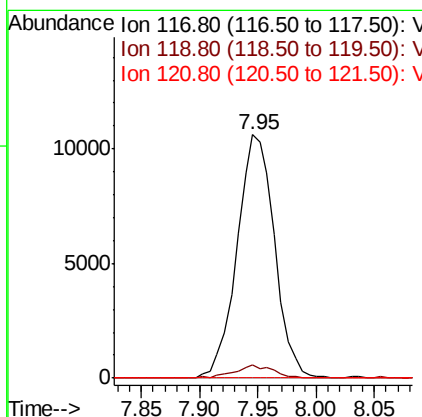
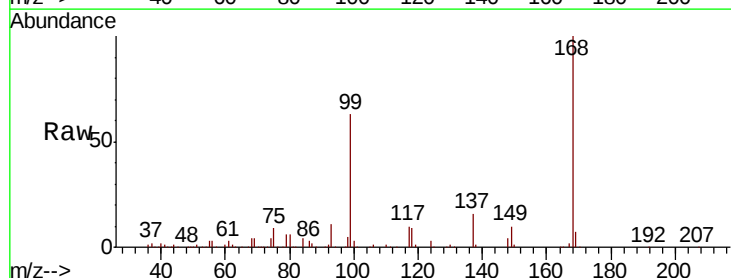
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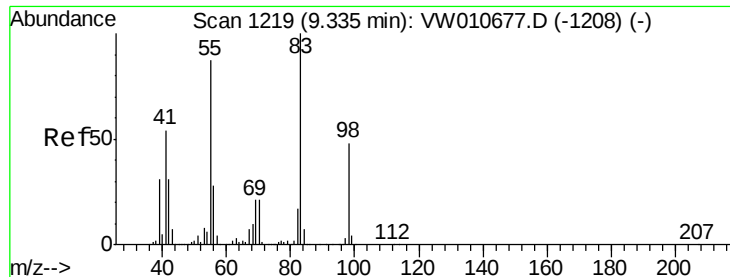
Tot Ion	Ratio	Lower	Upper
75	100		
110	8.2	15.8	47.3#
77	0.0	24.7	37.1#



#38
 Carbon Tetrachloride
 Concen: 6.879 ug/l
 RT: 7.95 min Scan# 991
 Delta R.T. -0.12 min
 Lab File: VW010851.D
 Acq: 19 Jun 2019 15:33

Tgt Ion	Ratio	Lower	Upper
117	100		
119	5.6	74.2	111.4#
121	0.0	22.9	34.3#

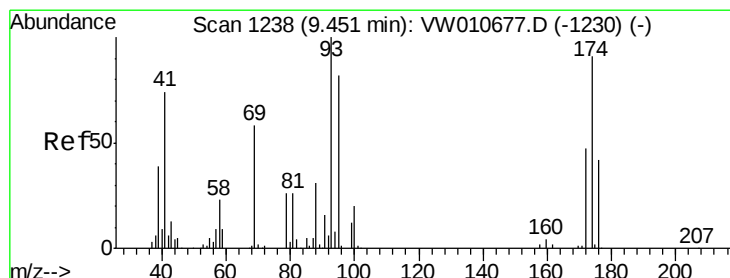
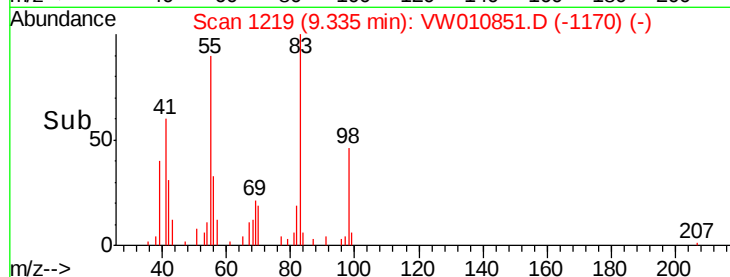
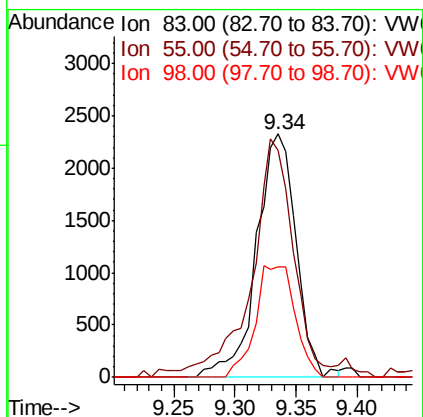
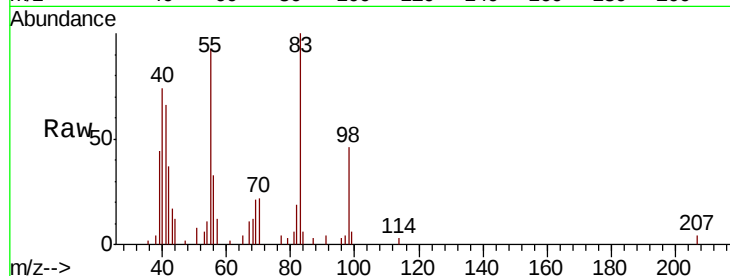




#39
Methylcyclohexane
Concen: 1.033 ug/l
RT: 9.34 min Scan# 1219
Delta R.T. -0.00 min
Lab File: VW010851.D
Acq: 19 Jun 2019 15:33

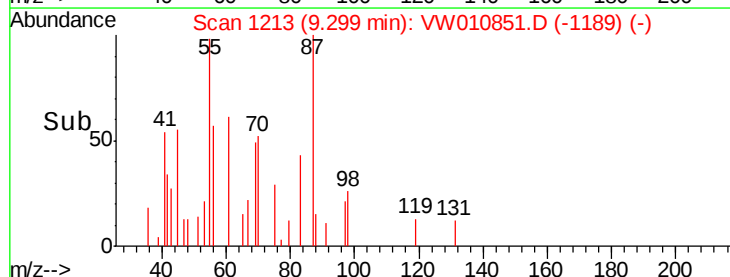
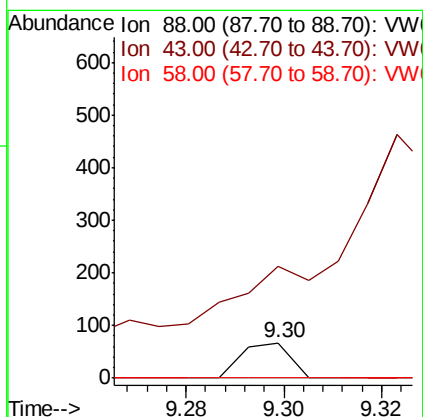
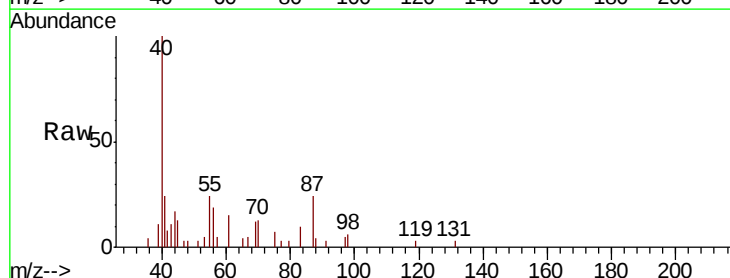
Instrument :
MSVOA_W
ClientSampleId :
SU-03-061719-BRE

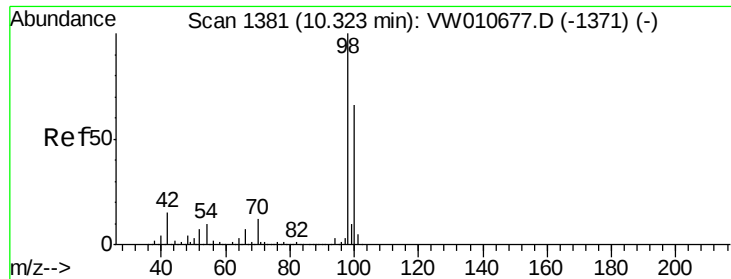
Tot Ion: 83 Resp: 5248
Ion Ratio Lower Upper
83 100
55 89.2 70.0 105.0
98 45.5 38.1 57.1



#49
1,4-Dioxane
Concen: 2.195 ug/l
RT: 9.30 min Scan# 1213
Delta R.T. -0.15 min
Lab File: VW010851.D
Acq: 19 Jun 2019 15:33

Tgt Ion: 88 Resp: 46
Ion Ratio Lower Upper
88 100
43 0.0 34.2 51.4#
58 0.0 69.0 103.4#





#50

Toluene-d8

Concen: 48.997 ug/l

RT: 10.32 min Scan# 1381

Delta R.T. -0.00 min

Lab File: VW010851.D

Acq: 19 Jun 2019 15:33

Instrument :

MSVOA_W

ClientSampleId :

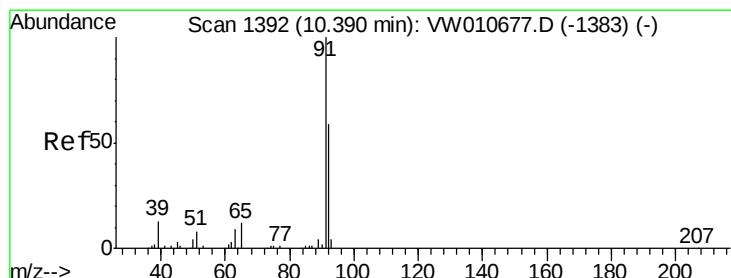
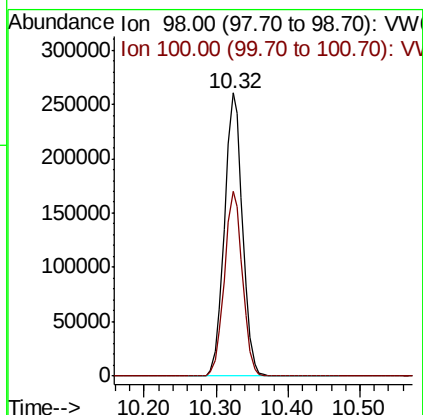
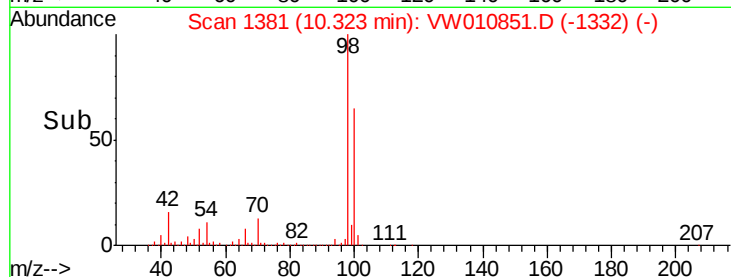
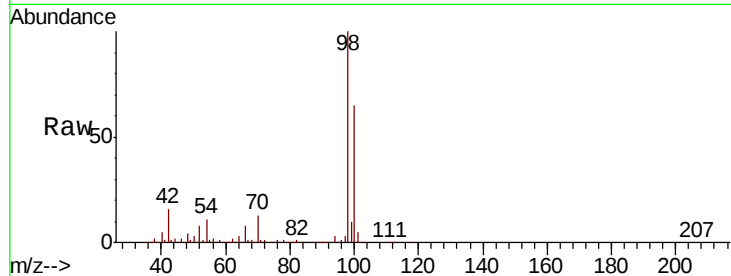
SU-03-061719-BRE

Tot Ion: 98 Resp: 455230

Ion Ratio Lower Upper

98 100

100 65.4 53.0 79.6



#52

Toluene

Concen: 1.070 ug/l

RT: 10.38 min Scan# 1391

Delta R.T. -0.01 min

Lab File: VW010851.D

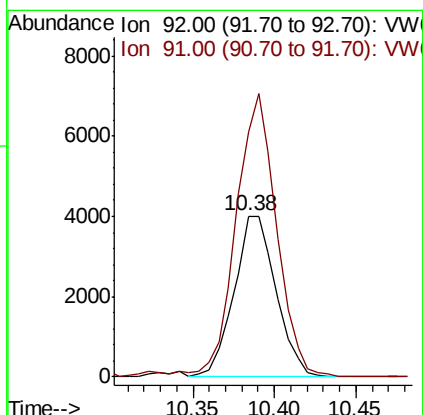
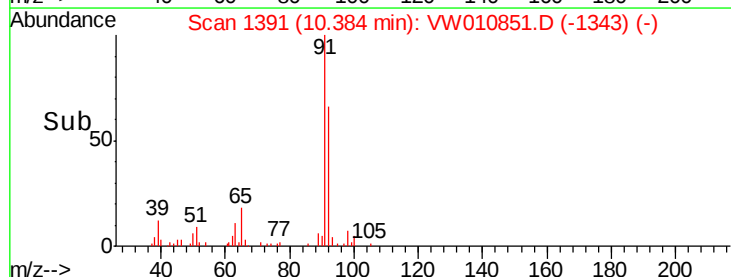
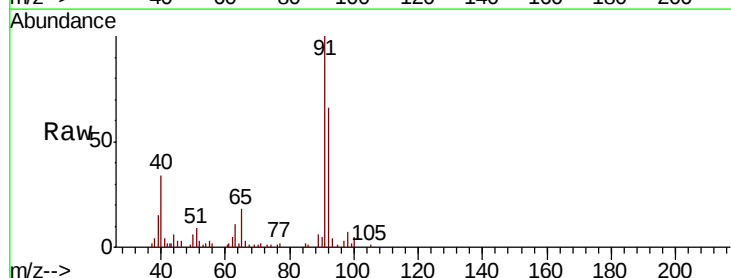
Acq: 19 Jun 2019 15:33

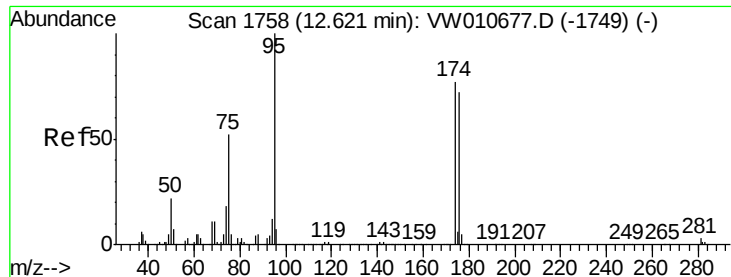
Tgt Ion: 92 Resp: 7178

Ion Ratio Lower Upper

92 100

91 170.0 134.9 202.3





#62

4-Bromofluorobenzene

Concen: 42.750 ug/l

RT: 12.62 min Scan# 1758

Delta R.T. -0.00 min

Lab File: VW010851.D

Acq: 19 Jun 2019 15:33

Instrument :

MSVOA_W

ClientSampleId :

SU-03-061719-BRE

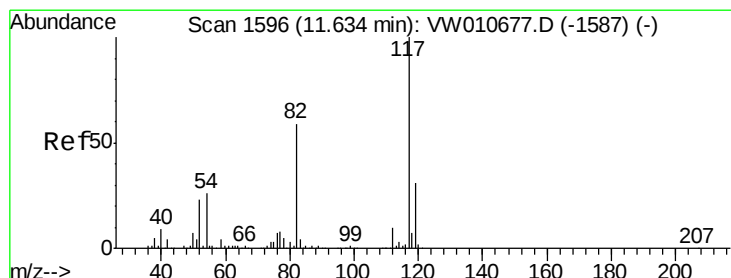
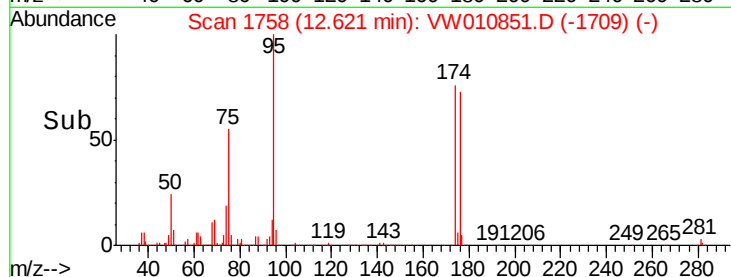
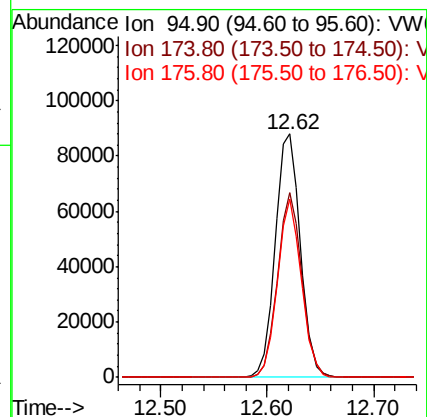
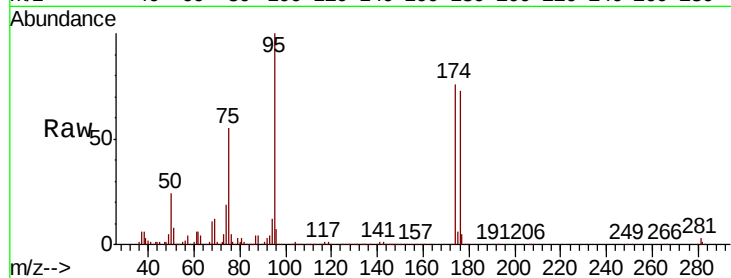
Tot Ion: 95 Resp: 144531

Ion Ratio Lower Upper

95 100

174 74.0 0.0 150.4

176 70.0 0.0 144.8



#63

Chlorobenzene-d5

Concen: 50.000 ug/l

RT: 11.63 min Scan# 1596

Delta R.T. -0.00 min

Lab File: VW010851.D

Acq: 19 Jun 2019 15:33

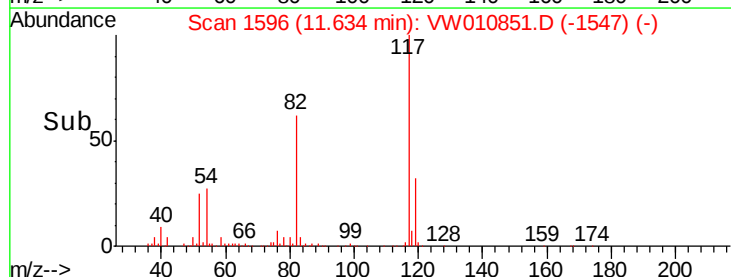
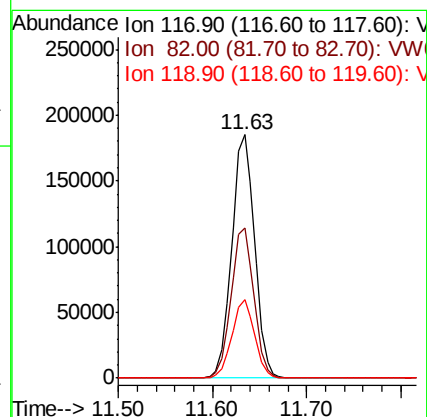
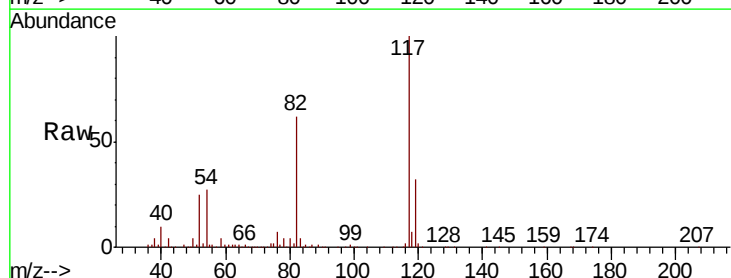
Tgt Ion: 117 Resp: 310365

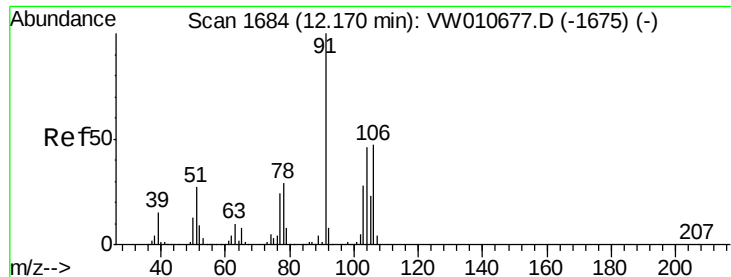
Ion Ratio Lower Upper

117 100

82 61.6 47.0 70.4

119 32.4 25.1 37.7

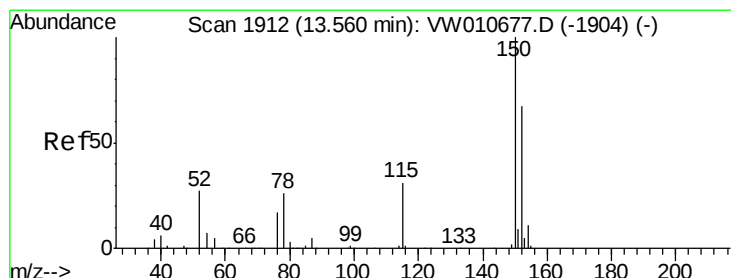
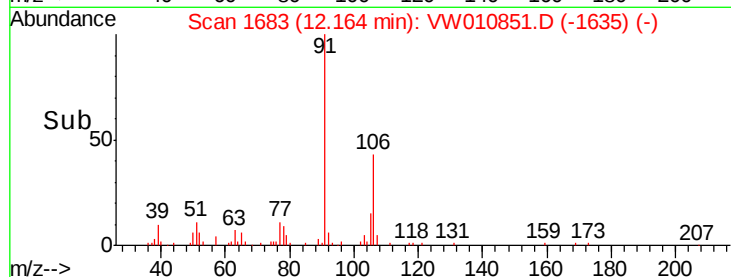
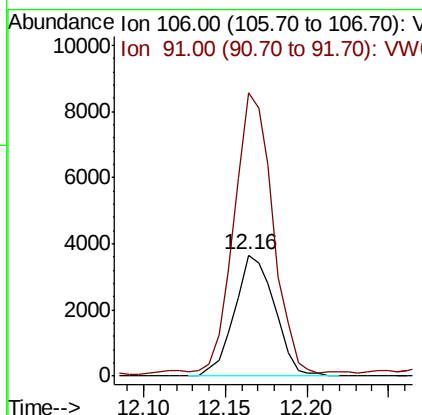
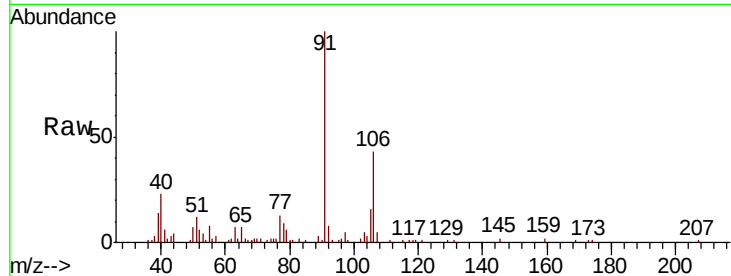




#69
o-Xylene
Concen: 1.577 ug/l
RT: 12.16 min Scan# 1683
Delta R.T. -0.01 min
Lab File: VW010851.D
Acq: 19 Jun 2019 15:33

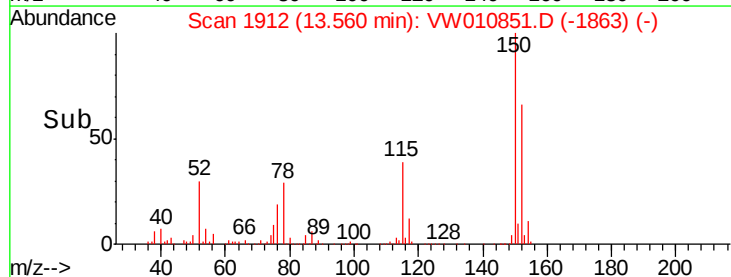
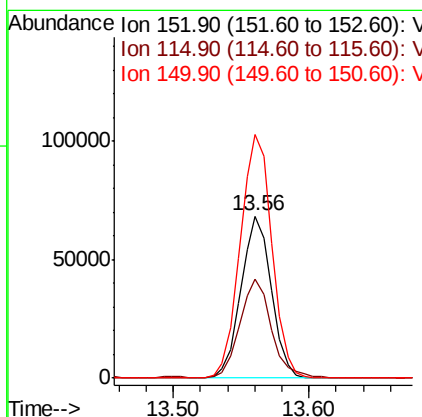
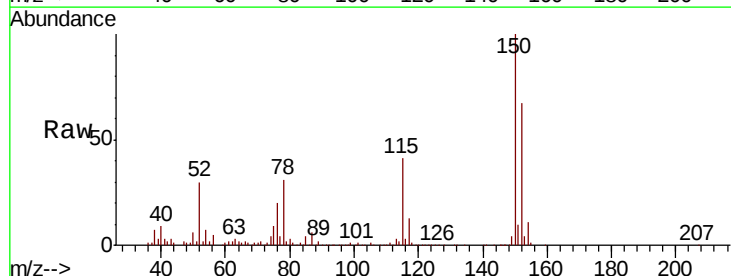
Instrument :
MSVOA_W
ClientSampleId :
SU-03-061719-BRE

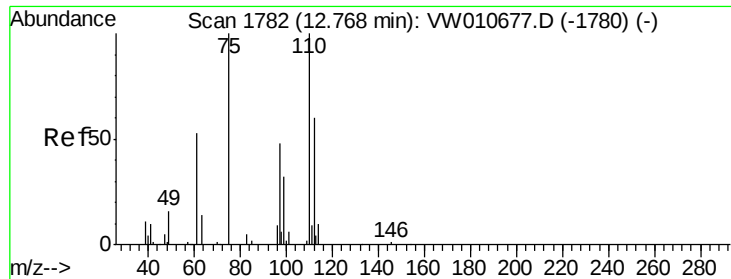
Tot Ion:106 Resp: 6280
Ion Ratio Lower Upper
106 100
91 226.5 108.9 326.6



#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 13.56 min Scan# 1912
Delta R.T. -0.00 min
Lab File: VW010851.D
Acq: 19 Jun 2019 15:33

Tgt Ion:152 Resp: 106435
Ion Ratio Lower Upper
152 100
115 63.2 29.8 89.3
150 157.0 0.0 345.0

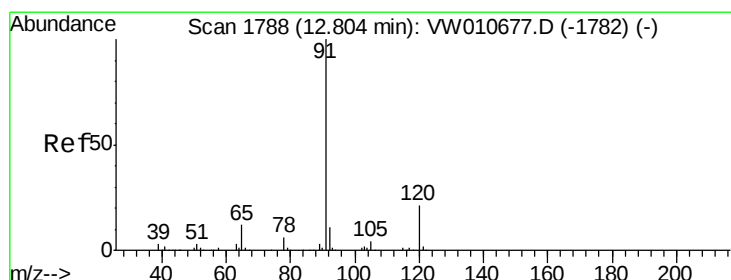
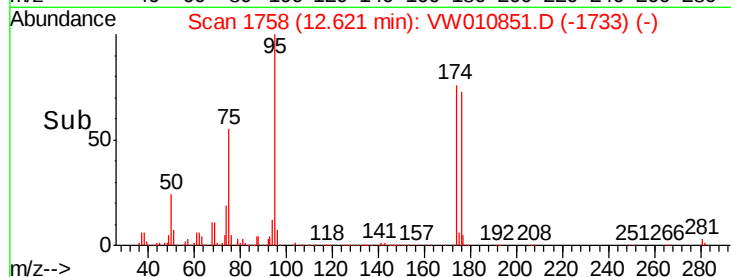
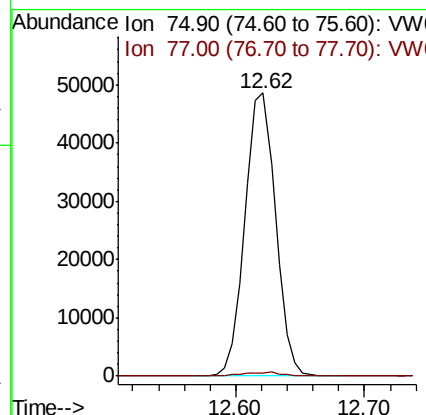
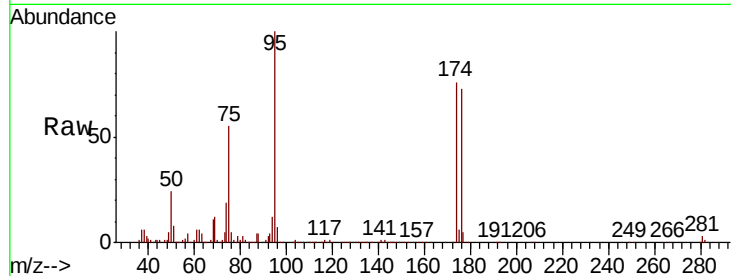




#76
1,2,3-Trichloropropane
Concen: 71.438 ug/l
RT: 12.62 min Scan# 1758
Delta R.T. -0.15 min
Lab File: VW010851.D
Acq: 19 Jun 2019 15:33

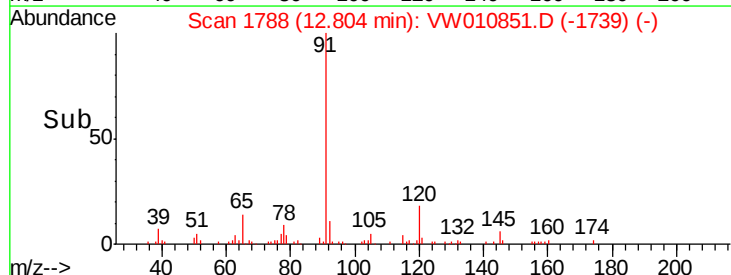
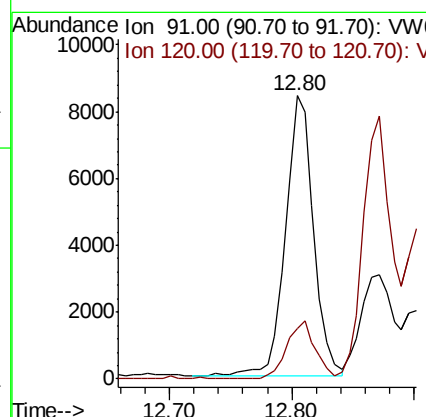
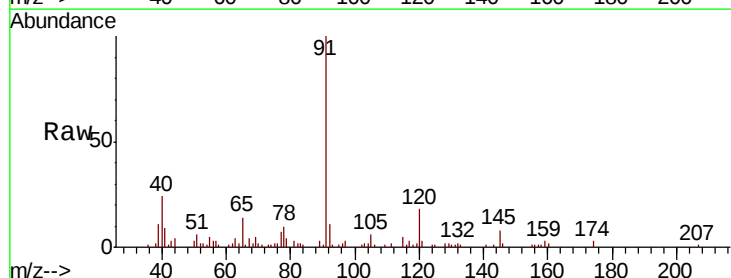
Instrument :
MSVOA_W
ClientSampleId :
SU-03-061719-BRE

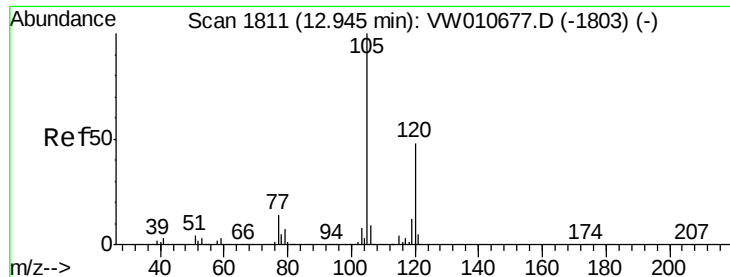
Tot Ion: 75 Resp: 79847
Ion Ratio Lower Upper
75 100
77 1.9 0.0 0.0#



#78
n-propylbenzene
Concen: 1.380 ug/l
RT: 12.80 min Scan# 1788
Delta R.T. -0.00 min
Lab File: VW010851.D
Acq: 19 Jun 2019 15:33

Tgt Ion: 91 Resp: 13311
Ion Ratio Lower Upper
91 100
120 20.9 10.8 32.4

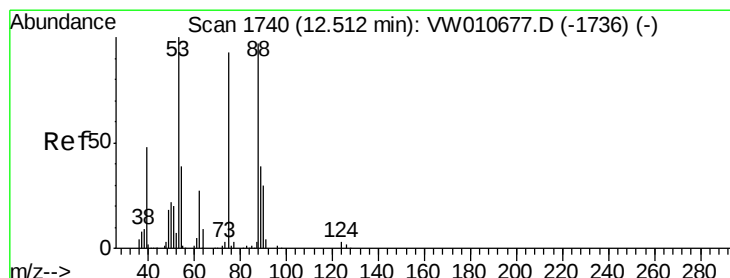
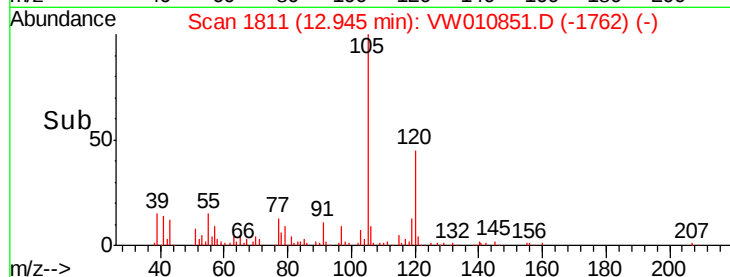
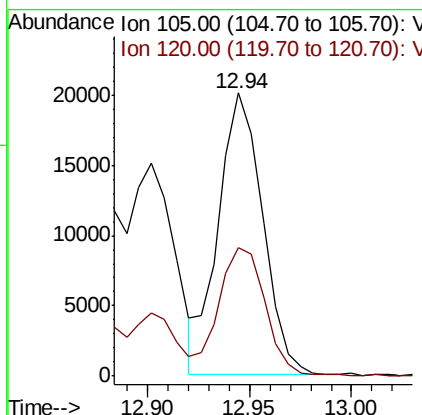
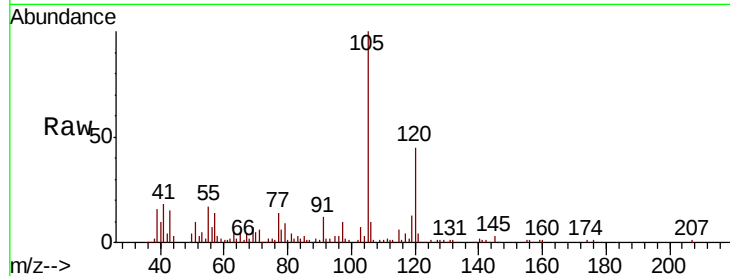




#80
 1,3,5-Trimethylbenzene
 Concen: 4.623 ug/l
 RT: 12.94 min Scan# 1811
 Delta R.T. -0.00 min
 Lab File: VW010851.D
 Acq: 19 Jun 2019 15:33

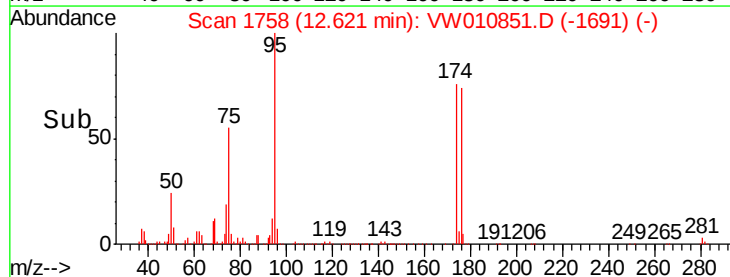
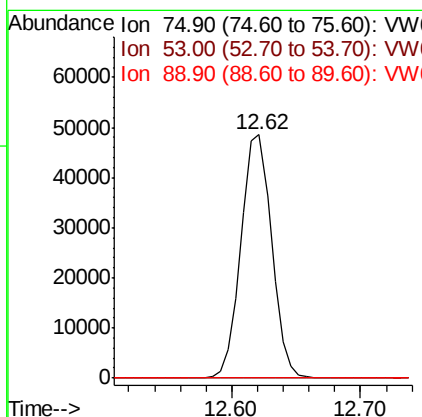
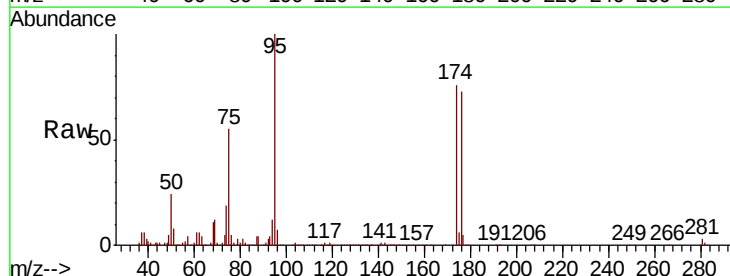
Instrument :
 MSVOA_W
 ClientSampleId :
 SU-03-061719-BRE

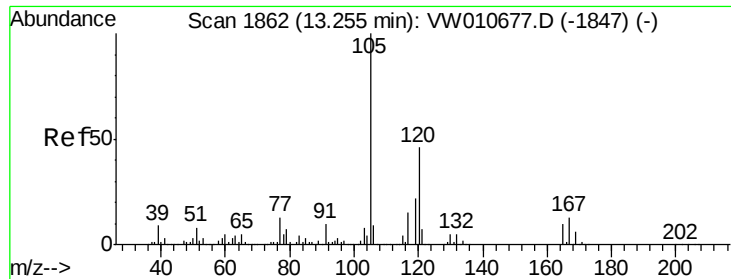
Tot Ion:105 Resp: 30266
 Ion Ratio Lower Upper
 105 100
 120 48.2 24.3 72.8



#81
 trans-1,4-Dichloro-2-butene
 Concen: 164.188 ug/l
 RT: 12.62 min Scan# 1758
 Delta R.T. 0.11 min
 Lab File: VW010851.D
 Acq: 19 Jun 2019 15:33

Tgt Ion: 75 Resp: 79847
 Ion Ratio Lower Upper
 75 100
 53 0.1 90.1 135.1#
 89 0.0 34.6 52.0#

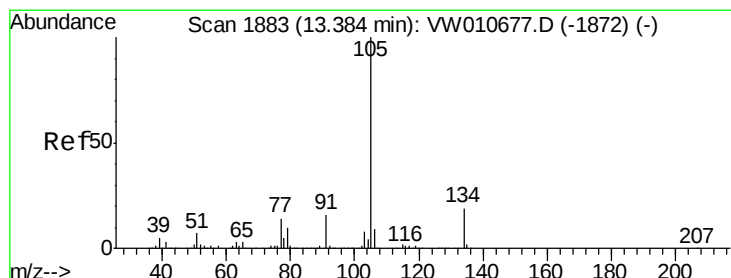
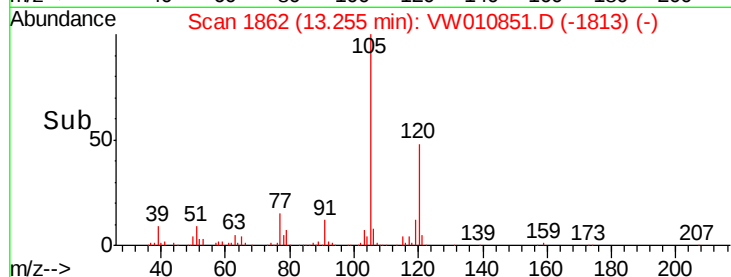
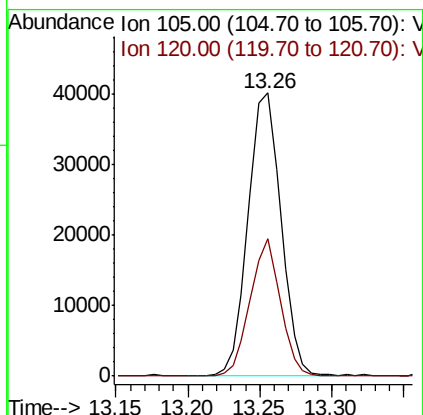
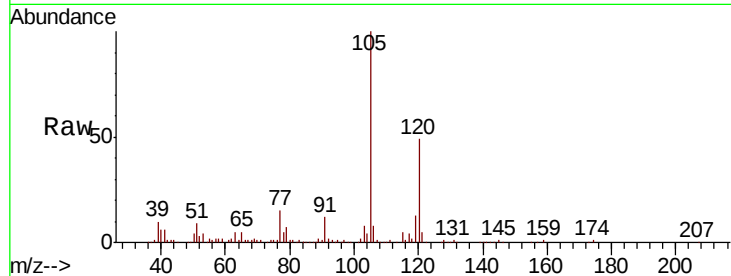




#84
1,2,4-Trimethylbenzene
Concen: 9.591 ug/l
RT: 13.26 min Scan# 1862
Delta R.T. -0.00 min
Lab File: VW010851.D
Acq: 19 Jun 2019 15:33

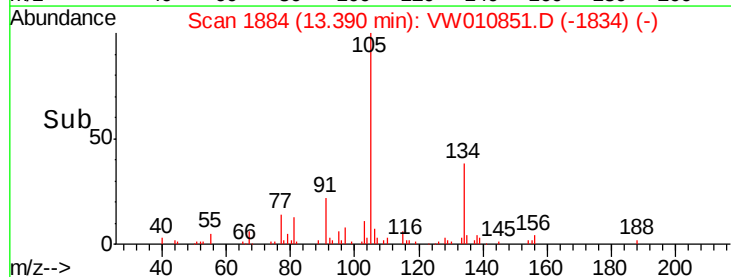
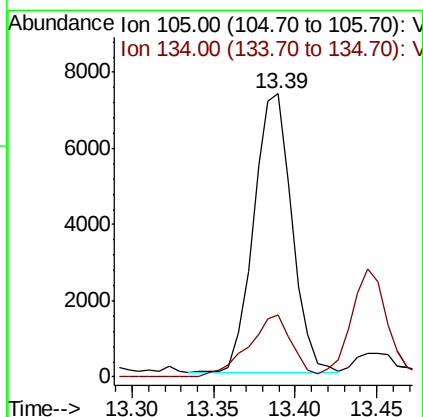
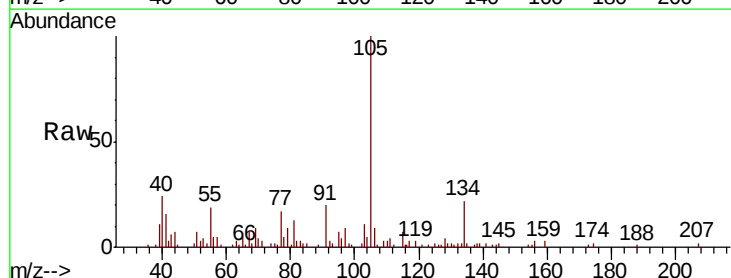
Instrument :
MSVOA_W
ClientSampleId :
SU-03-061719-BRE

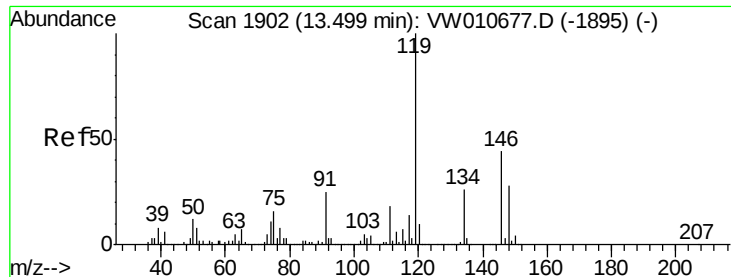
Tot Ion:105 Resp: 63187
Ion Ratio Lower Upper
105 100
120 44.8 22.5 67.5



#85
sec-Butylbenzene
Concen: 1.482 ug/l
RT: 13.39 min Scan# 1884
Delta R.T. 0.01 min
Lab File: VW010851.D
Acq: 19 Jun 2019 15:33

Tgt Ion:105 Resp: 11985
Ion Ratio Lower Upper
105 100
134 24.9 9.7 28.9

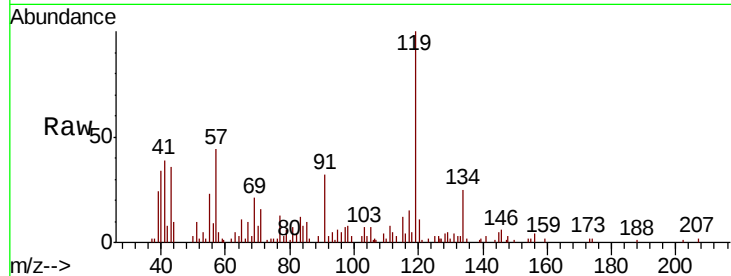




#86
 p-Isopropyltoluene
 Concen: 1.208 ug/l
 RT: 13.50 min Scan# 1902
 Delta R.T. -0.00 min
 Lab File: VW010851.D
 Acq: 19 Jun 2019 15:33

Instrument :
 MSVOA_W
 ClientSampleId :
 SU-03-061719-BRE

Tot Ion	Ratio	Lower	Upper
119	100		
134	25.8	13.0	39.0
91	26.3	12.2	36.4

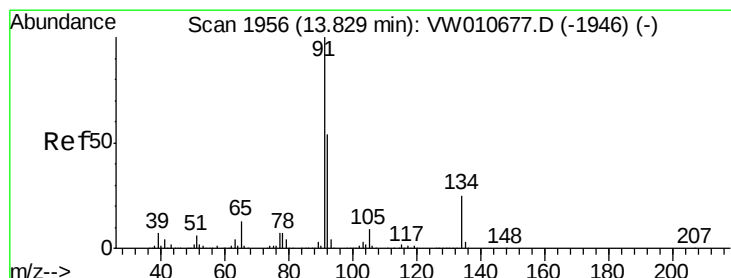
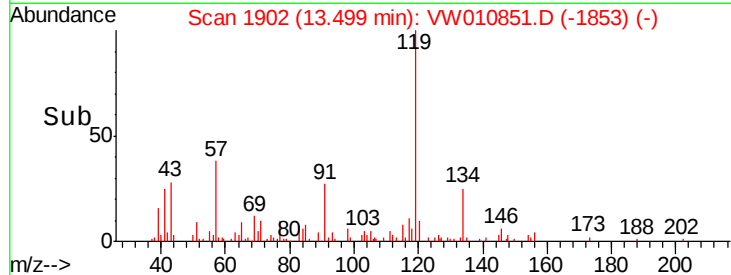
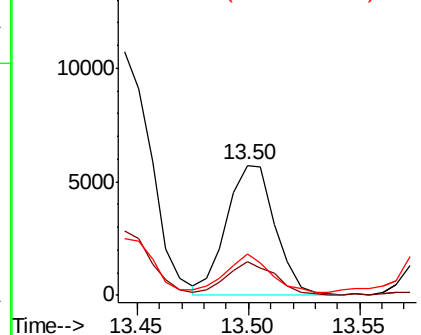


Abundance

Ion 119.00 (118.70 to 119.70): VW

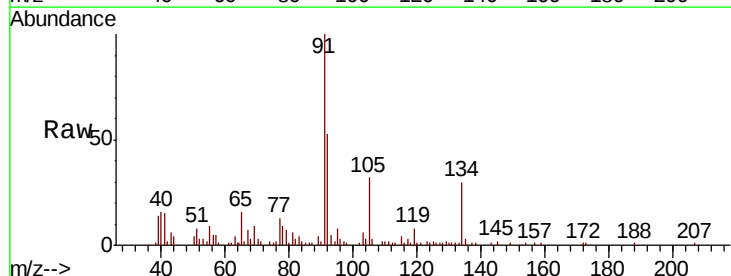
Ion 134.00 (133.70 to 134.70): VW

Ion 91.00 (90.70 to 91.70): VW



#89
 n-Butylbenzene
 Concen: 2.879 ug/l
 RT: 13.82 min Scan# 1956
 Delta R.T. -0.01 min
 Lab File: VW010851.D
 Acq: 19 Jun 2019 15:33

Tgt Ion	Ratio	Lower	Upper
91	100		
92	59.8	27.3	81.8
134	0.0	12.3	36.9#

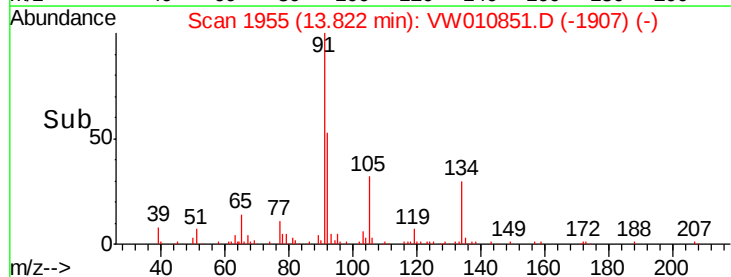
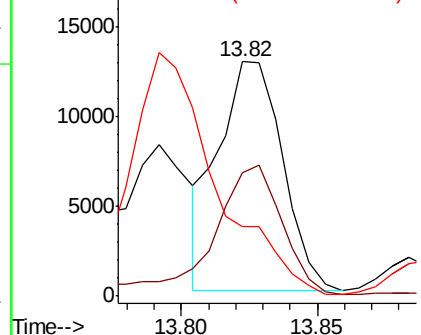


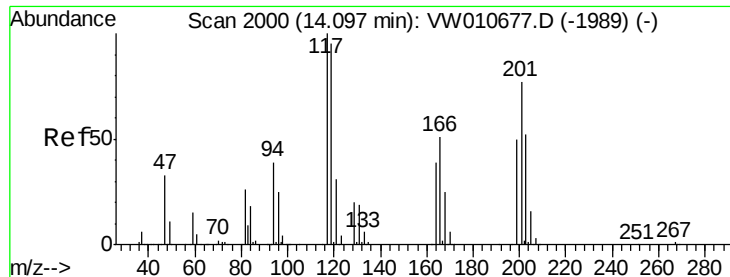
Abundance

Ion 91.00 (90.70 to 91.70): VW

Ion 92.00 (91.70 to 92.70): VW

Ion 134.00 (133.70 to 134.70): VW





#90

Hexachloroethane

Concen: 4.623 ug/l

RT: 14.10 min Scan# 2000

Delta R.T. -0.00 min

Lab File: VW010851.D

Acq: 19 Jun 2019 15:33

Instrument :

MSVOA_W

ClientSampleId :

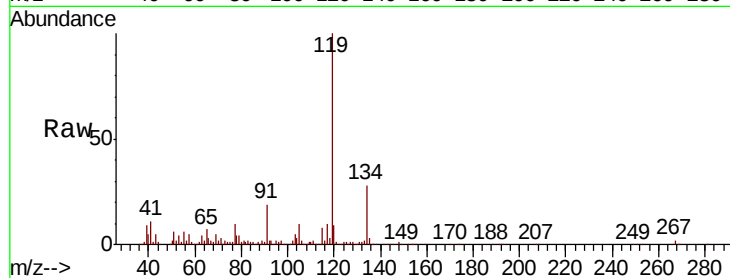
SU-03-061719-BRE

Tot Ion:117 Resp: 5989

Ion Ratio Lower Upper

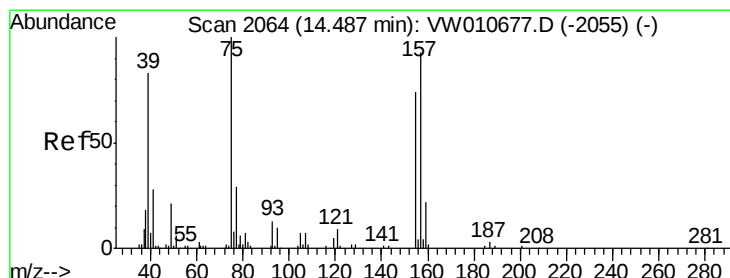
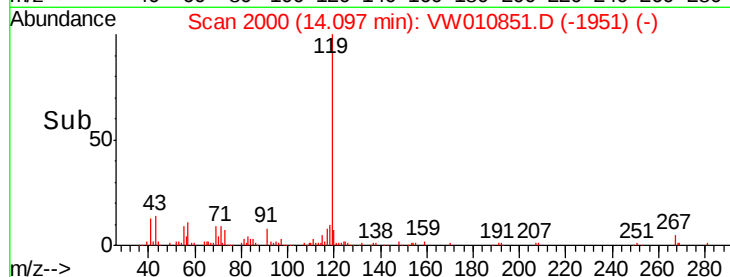
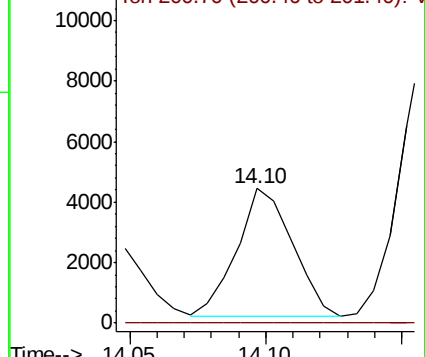
117 100

201 0.0 38.8 116.4#



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: 1.622 ug/l

RT: 14.51 min Scan# 2068

Delta R.T. 0.02 min

Lab File: VW010851.D

Acq: 19 Jun 2019 15:33

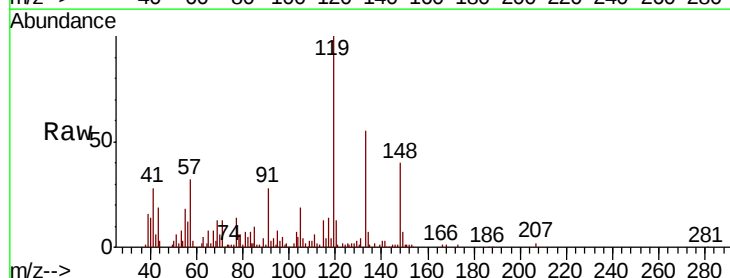
Tgt Ion: 75 Resp: 424

Ion Ratio Lower Upper

75 100

155 13.9 38.8 116.4#

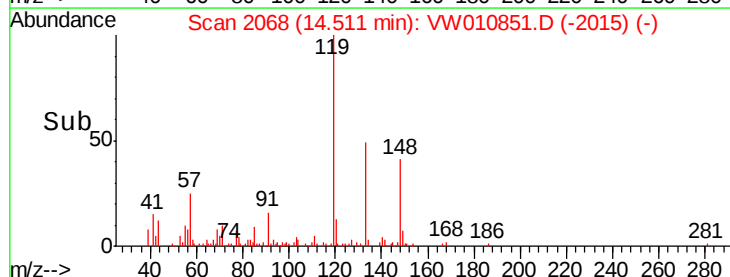
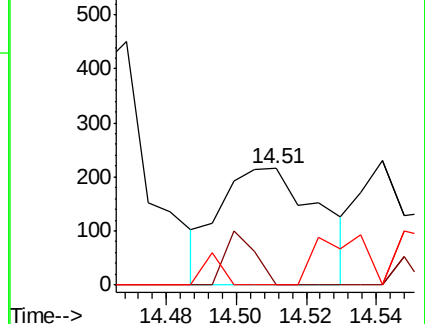
157 5.2 48.4 145.0#

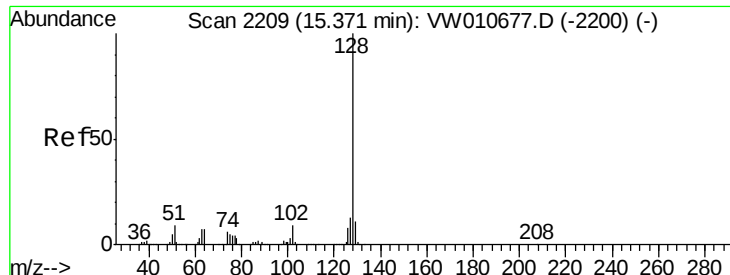


Abundance Ion 74.90 (74.60 to 75.60): VW

Ion 154.80 (154.50 to 155.50): V

Ion 156.80 (156.50 to 157.50): V





#95

Naphthalene

Concen: 3.445 ug/l

RT: 15.37 min Scan# 2209

Delta R.T. -0.00 min

Lab File: VW010851.D

Acq: 19 Jun 2019 15:33

Instrument :

MSVOA_W

ClientSampleId :

SU-03-061719-BRE

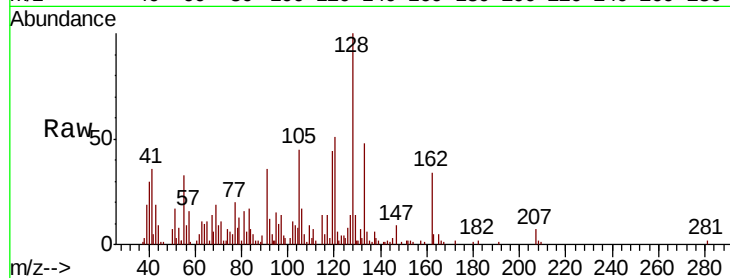
Tot Ion:128 Resp: 13301

Ion Ratio Lower Upper

128 100

127 11.5 10.6 15.8

129 8.0 8.6 13.0#



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

