

Data Path : Z:\VOASRV\HPCHEM1\MSVOA W\DATA\VW092019\
 Data File : VW013201.D
 Acq On : 21 Sep 2019 00:03
 Operator : SY/VA
 Sample : K4918-08
 Misc : 2.92G/5ML/MSVOA W/SOIL
 ALS Vial : 28 Sample Multiplier: 1

Instrument :
 MSVOA_W
 ClientSampleId :

Quant Time: Sep 21 04:56:32 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	281132	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	8.84	114	412103	50.00	ug/l	0.00
63) Chlorobenzene-d5	11.63	117	285580	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.55	152	79035	50.00	ug/l	0.00

System Monitoring Compounds

33) 1,2-Dichloroethane-d4	8.30	65	117342	51.14	ug/l	0.00
Spiked Amount	50.000		Recovery	=	102.28%	
35) Dibromofluoromethane	7.88	113	119217	52.60	ug/l	0.00
Spiked Amount	50.000		Recovery	=	105.20%	
50) Toluene-d8	10.32	98	439253	46.31	ug/l	0.00
Spiked Amount	50.000		Recovery	=	92.62%	
62) 4-Bromofluorobenzene	12.62	95	101569	31.35	ug/l	0.00
Spiked Amount	50.000		Recovery	=	62.70%	

Target Compounds

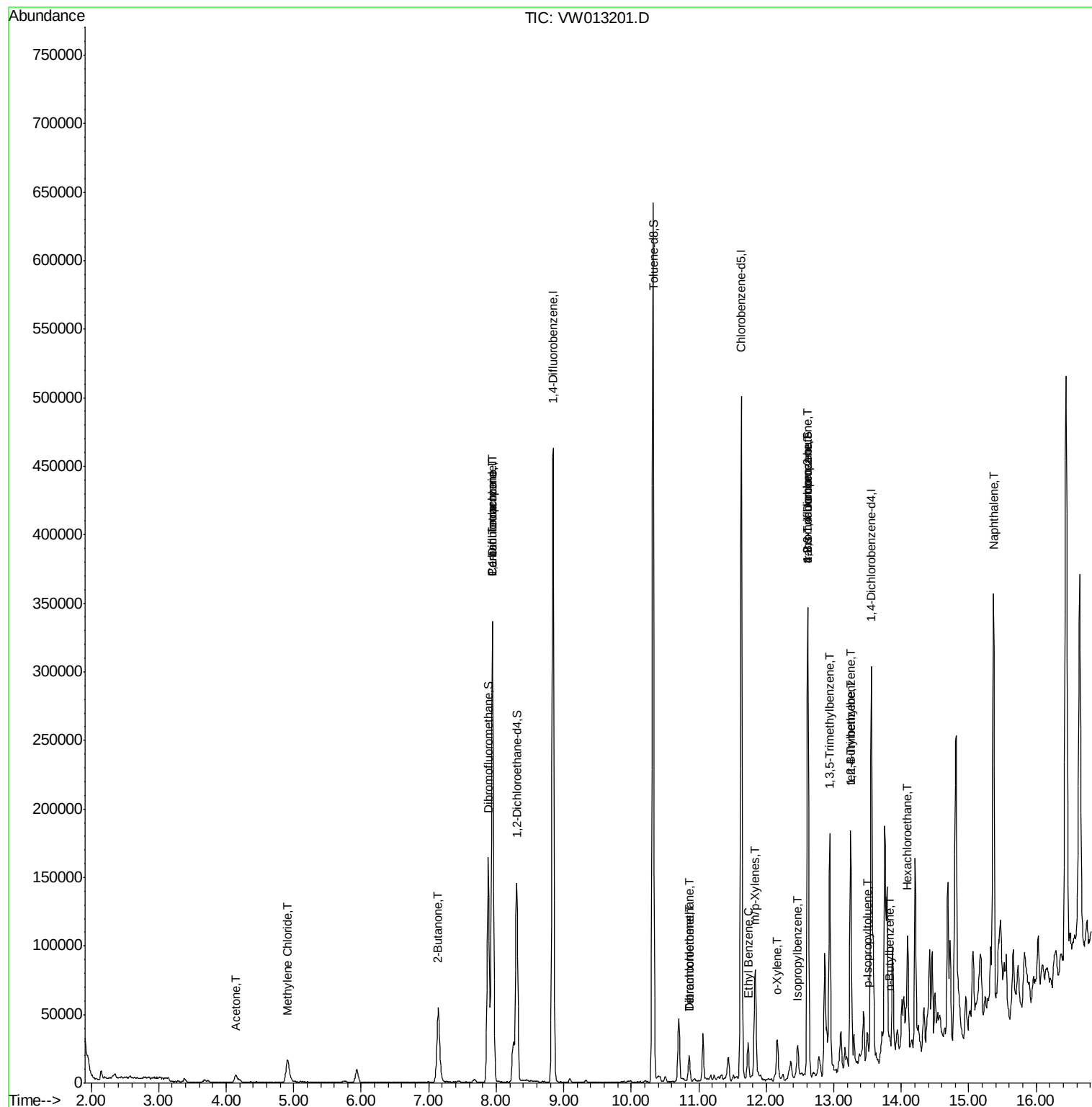
					Qvalue
11) Tert butyl alcohol	5.18	59	249	Below Cal	# 73
16) Acetone	4.14	43	10906	21.077 ug/l	# 84
20) Methylene Chloride	4.91	84	13690	2.408 ug/l	92
25) 2-Butanone	7.14	43	3049	3.925 ug/l	# 80
26) 2,2-Dichloropropane	7.13	77	3645	Below Cal	# 52
36) 1,1-Dichloropropene	7.94	75	18498	4.634 ug/l	# 48
38) Carbon Tetrachloride	7.95	117	24467	6.838 ug/l	# 17
60) Dibromochloromethane	10.86	129	3469	1.549 ug/l	# 11
64) Tetrachloroethene	10.86	164	4242	1.958 ug/l	92
67) Ethyl Benzene	11.73	91	17228	1.594 ug/l	97
68) m/p-Xylenes	11.84	106	22093	5.366 ug/l	96
69) o-Xylene	12.16	106	8013	2.093 ug/l	100
73) Isopropylbenzene	12.46	105	10348	1.772 ug/l	96
76) 1,2,3-Trichloropropane	12.62	75	50343	72.126 ug/l	# 100
80) 1,3,5-Trimethylbenzene	12.94	105	83561	17.026 ug/l	98
81) trans-1,4-Dichloro-2-buten	12.62	75	50343	161.845 ug/l	# 12
83) tert-Butylbenzene	13.25	119	12724	2.954 ug/l	# 74
84) 1,2,4-Trimethylbenzene	13.25	105	97817	20.029 ug/l	97
86) p-Isopropyltoluene	13.50	119	10920	1.982 ug/l	99
89) n-Butylbenzene	13.82	91	5625	1.118 ug/l	# 69
90) Hexachloroethane	14.10	117	4710	5.090 ug/l	# 6
95) Naphthalene	15.36	128	280453	103.882 ug/l	99

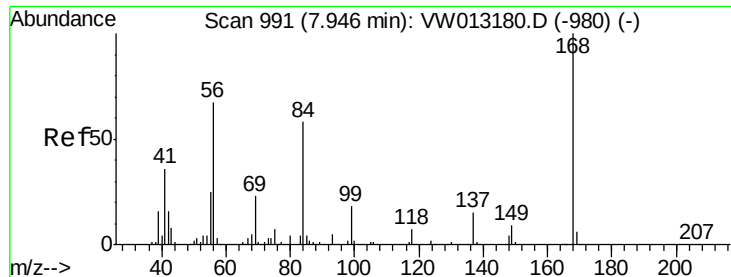
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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Quant Title : SW846 8260
QLast Update : Fri Sep 20 15:58:08 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: VW013201.D

Acq: 21 Sep 2019 00:03

Instrument :

MSVOA_W

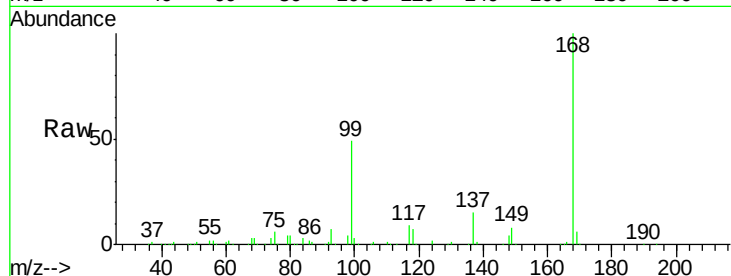
ClientSampled :

Tot Ion:168 Resp: 281132

Ion Ratio Lower Upper

168 100

99 49.3 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

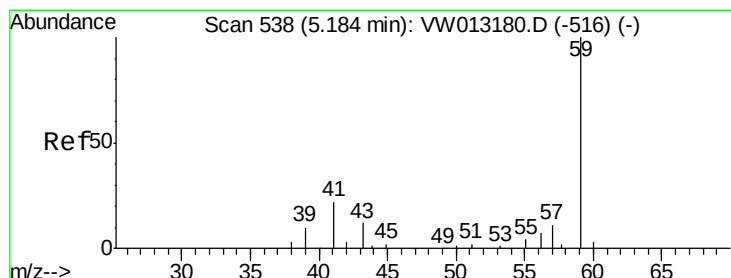
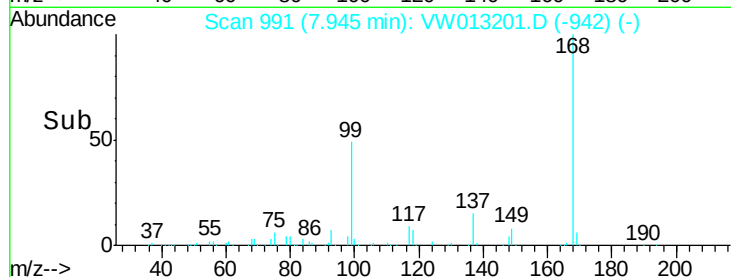
150000

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: VW013201.D

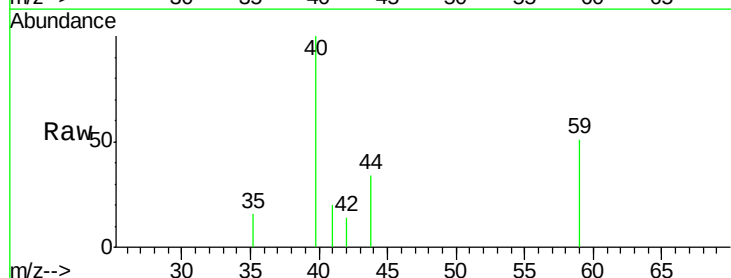
Acq: 21 Sep 2019 00:03

Tgt Ion: 59 Resp: 249

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

300

250

200

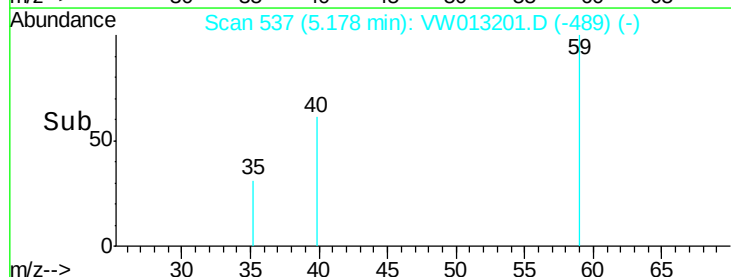
150

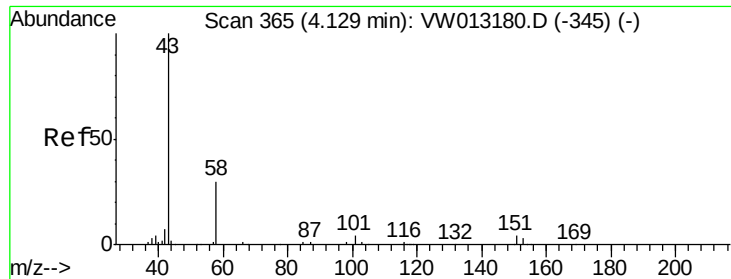
100

50

0

Time--> 5.16 5.18 5.20

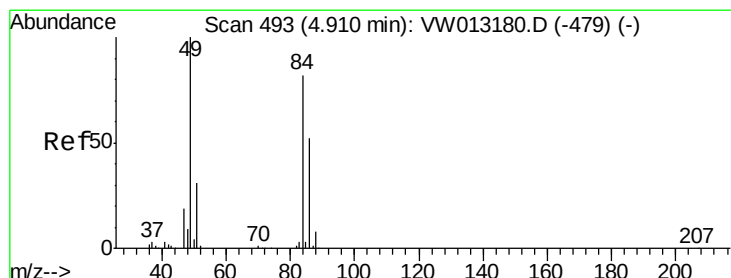
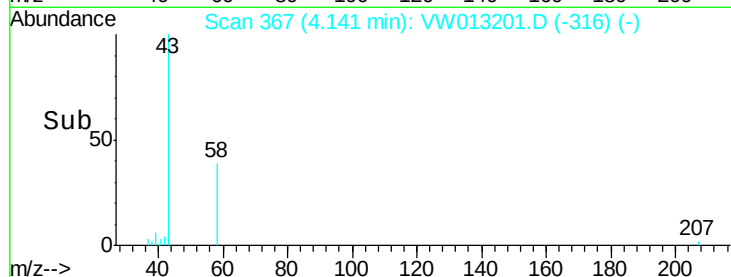
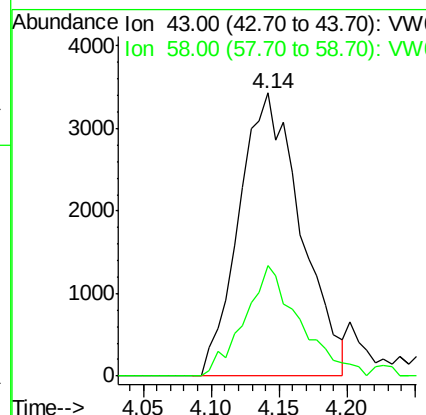
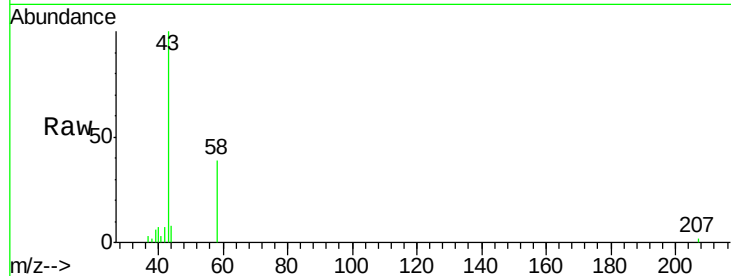




#16
Acetone
Concen: 21.077 ug/l
RT: 4.14 min Scan# 367
Delta R.T. 0.01 min
Lab File: VW013201.D
Acq: 21 Sep 2019 00:03

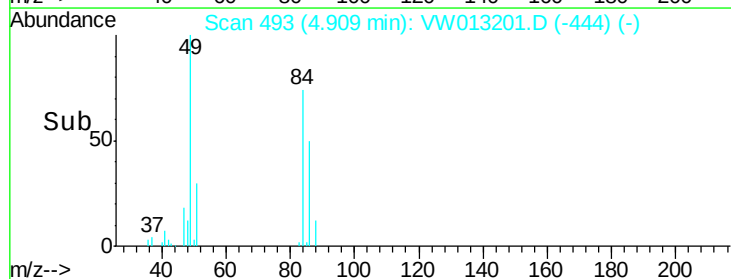
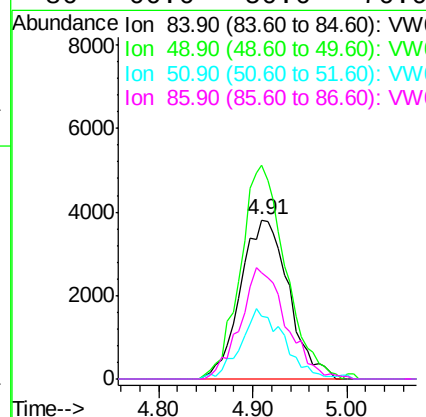
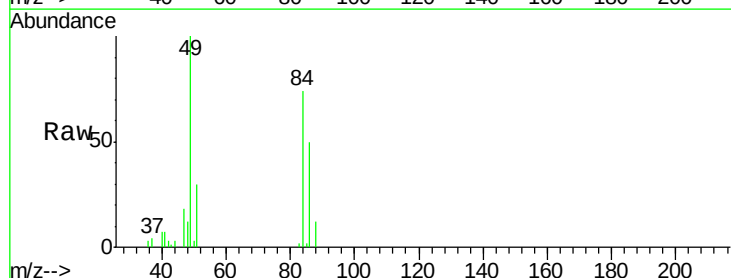
Instrument :
MSVOA_W
ClientSampleId :

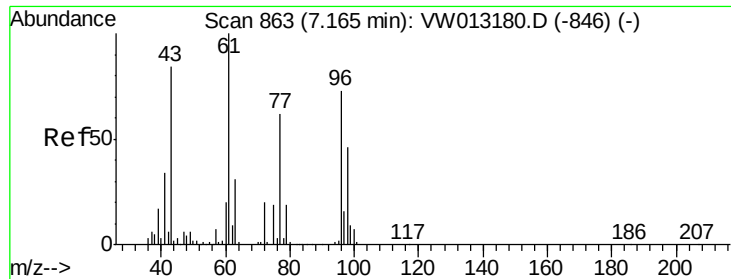
Tot Ion: 43 Resp: 10906
Ion Ratio Lower Upper
43 100
58 38.9 24.1 36.1#



#20
Methylene Chloride
Concen: 2.408 ug/l
RT: 4.91 min Scan# 493
Delta R.T. 0.00 min
Lab File: VW013201.D
Acq: 21 Sep 2019 00:03

Tgt Ion: 84 Resp: 13690
Ion Ratio Lower Upper
84 100
49 134.6 97.6 146.4
51 39.9 30.2 45.2
86 66.6 50.6 76.0





#25

2-Butanone

Concen: 3.925 ug/l

RT: 7.14 min Scan# 859

Delta R.T. -0.02 min

Lab File: VW013201.D

Acq: 21 Sep 2019 00:03

Instrument :

MSVOA_W

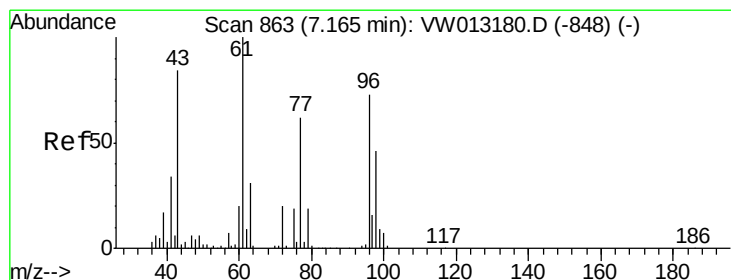
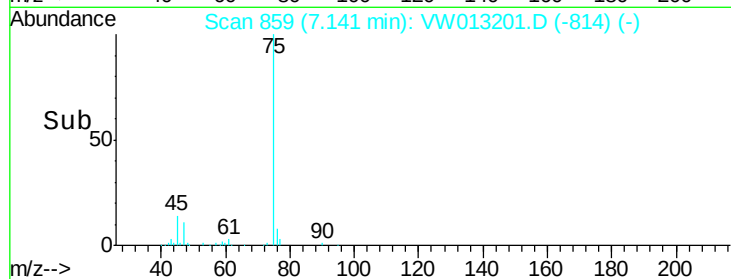
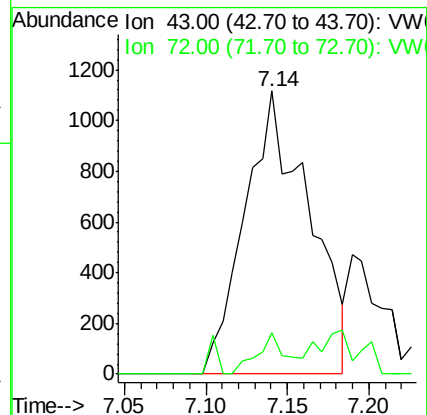
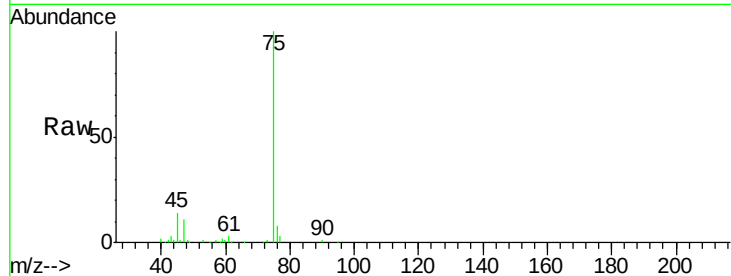
ClientSampleId :

Tot Ion: 43 Resp: 3049

Ion Ratio Lower Upper

43 100

72 14.5 19.4 29.0#



#26

2,2-Dichloropropane

Concen: Below Cal

RT: 7.13 min Scan# 858

Delta R.T. -0.03 min

Lab File: VW013201.D

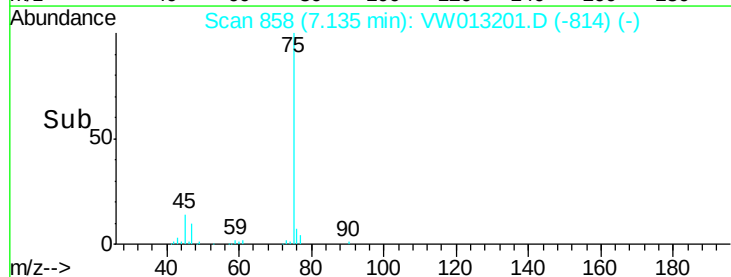
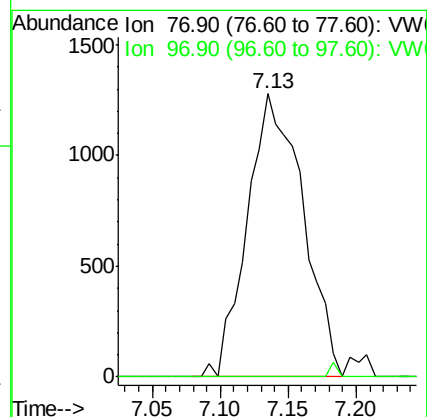
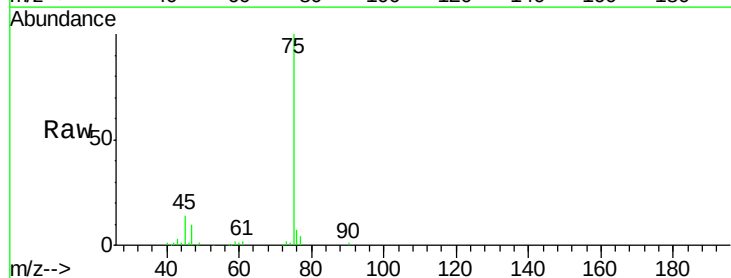
Acq: 21 Sep 2019 00:03

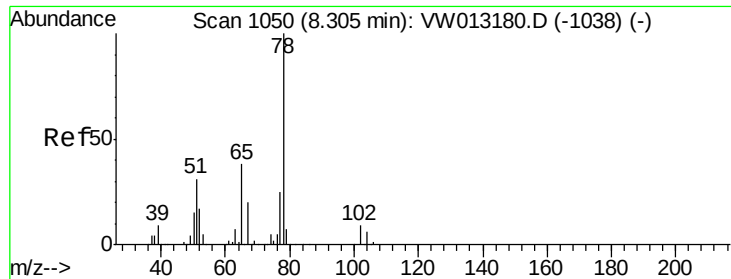
Tgt Ion: 77 Resp: 3645

Ion Ratio Lower Upper

77 100

97 0.0 11.8 35.4#

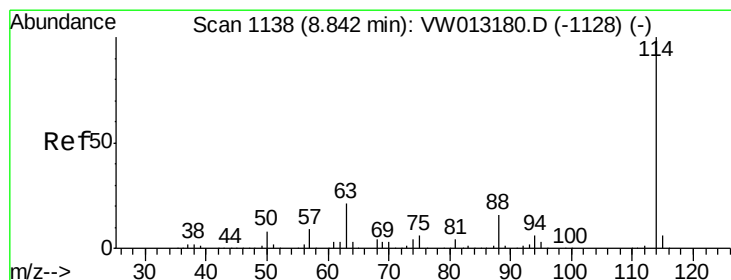
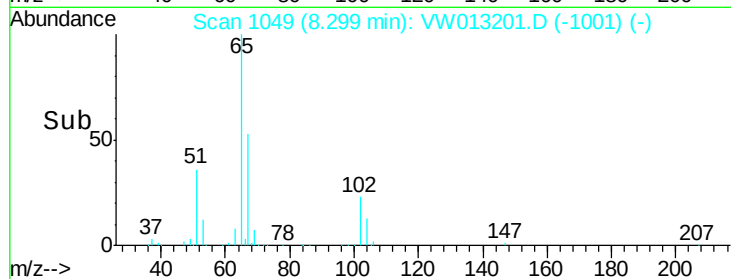
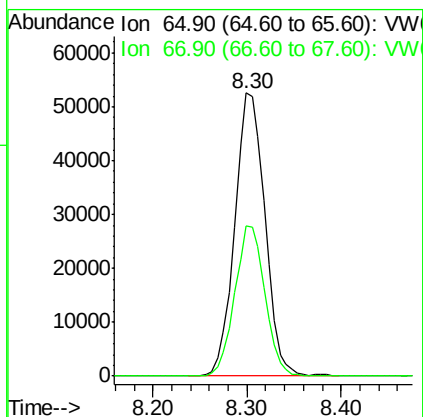
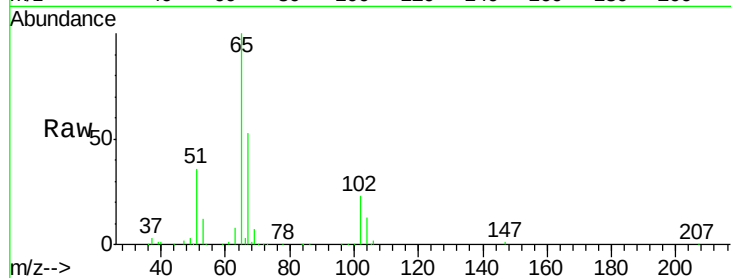




#33
 1,2-Dichloroethane-d4
 Concen: 51.142 ug/l
 RT: 8.30 min Scan# 1049
 Delta R.T. -0.01 min
 Lab File: VW013201.D
 Acq: 21 Sep 2019 00:03

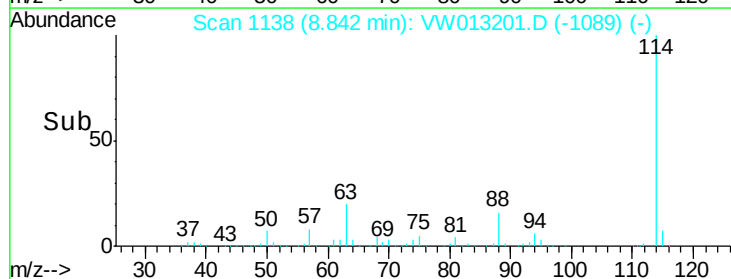
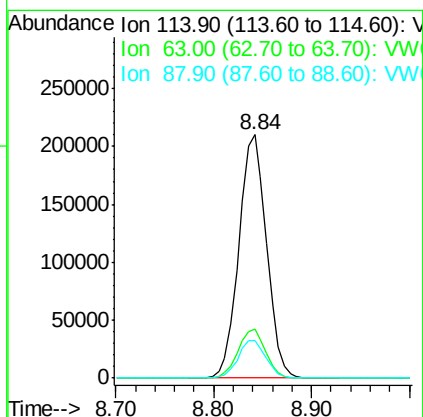
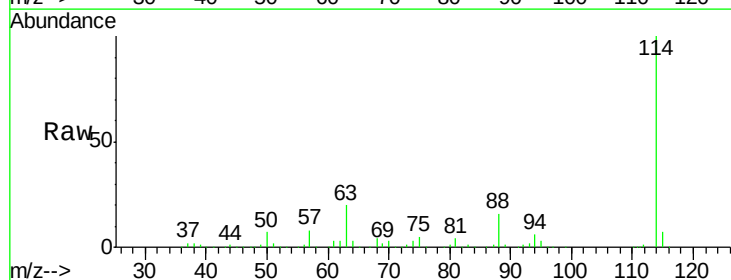
Instrument :
 MSVOA_W
 ClientSampled :

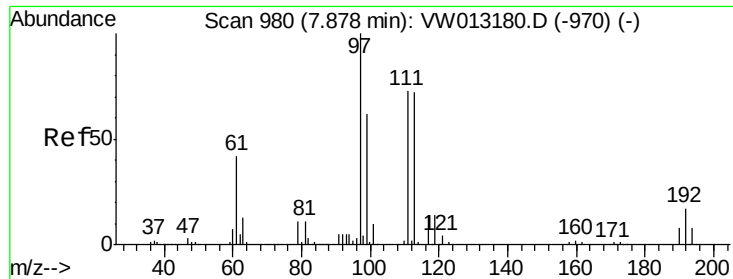
Tot Ion: 65 Resp: 117342
 Ion Ratio Lower Upper
 65 100
 67 52.8 0.0 106.2



#34
 1,4-Difluorobenzene
 Concen: 50.000 ug/l
 RT: 8.84 min Scan# 1138
 Delta R.T. -0.00 min
 Lab File: VW013201.D
 Acq: 21 Sep 2019 00:03

Tgt Ion: 114 Resp: 412103
 Ion Ratio Lower Upper
 114 100
 63 20.2 0.0 41.4
 88 15.6 0.0 32.0

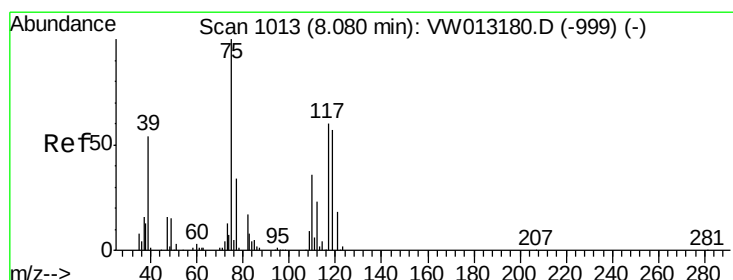
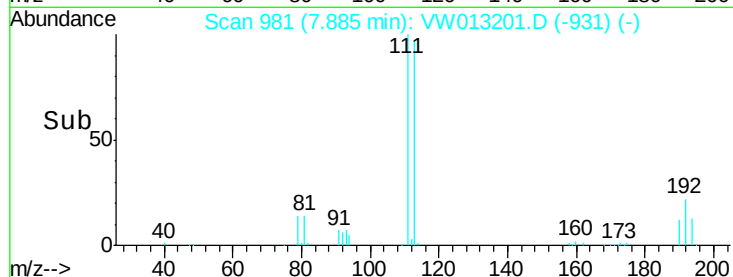
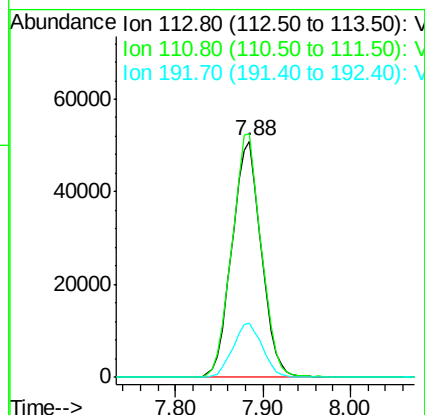
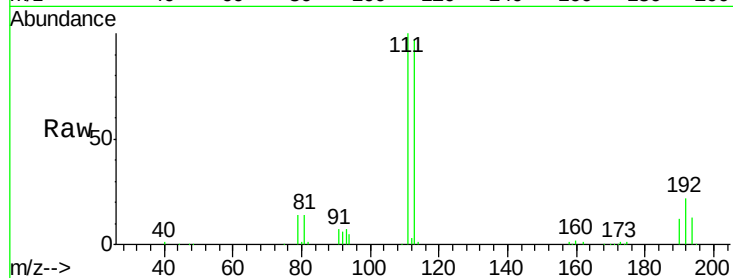




#35
 Dibromofluoromethane
 Concen: 52.598 ug/l
 RT: 7.88 min Scan# 981
 Delta R.T. 0.01 min
 Lab File: VW013201.D
 Acq: 21 Sep 2019 00:03

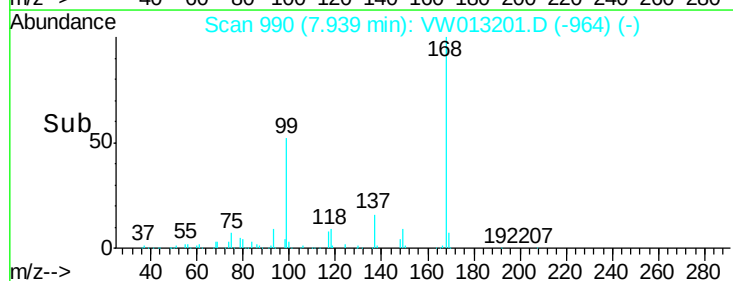
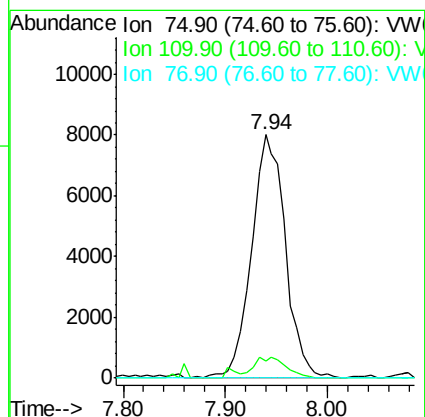
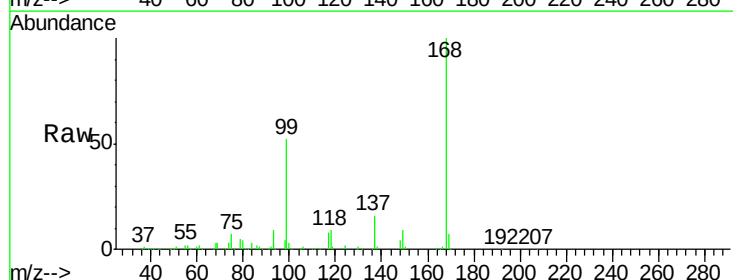
Instrument :
 MSVOA_W
 ClientSampleId :

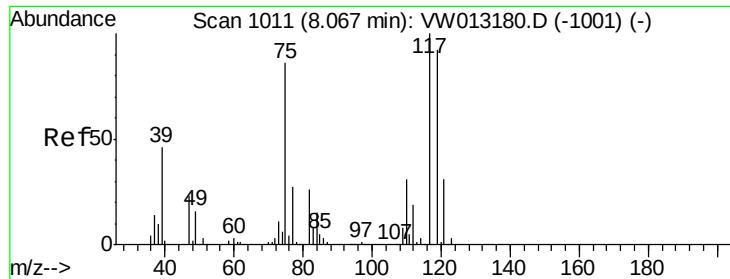
Tot Ion	Ratio	Lower	Upper
113	100		
111	102.8	81.9	122.9
192	23.1	19.1	28.7



#36
 1,1-Dichloropropene
 Concen: 4.634 ug/l
 RT: 7.94 min Scan# 990
 Delta R.T. -0.14 min
 Lab File: VW013201.D
 Acq: 21 Sep 2019 00:03

Tgt Ion	Ratio	Lower	Upper
75	100		
110	8.1	18.1	54.3#
77	0.0	25.8	38.6#





#38

Carbon Tetrachloride

Concen: 6.838 ug/l

RT: 7.95 min Scan# 991

Delta R.T. -0.12 min

Lab File: VW013201.D

Acq: 21 Sep 2019 00:03

Instrument :

MSVOA_W

ClientSampleId :

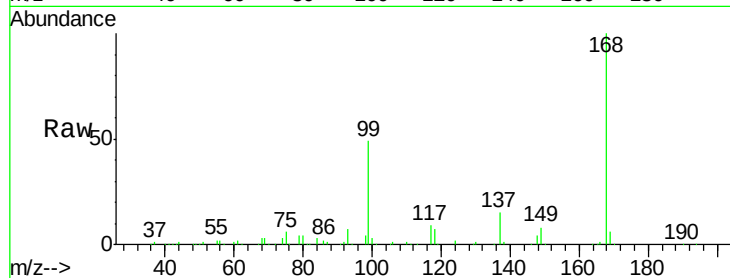
Tot Ion:117 Resp: 24467

Ion Ratio Lower Upper

117 100

119 4.8 73.5 110.3#

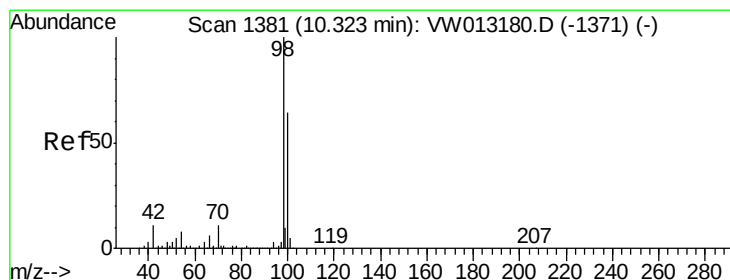
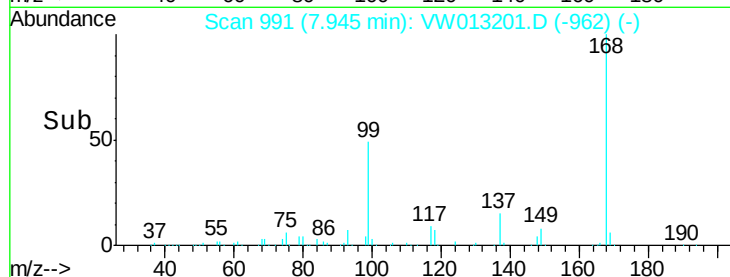
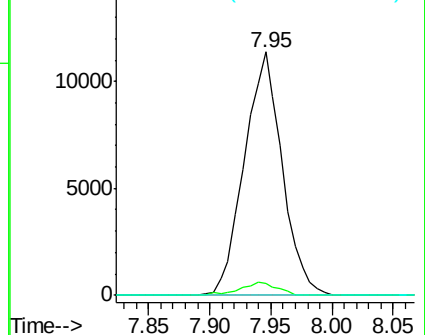
121 0.0 25.0 37.6#



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: 46.306 ug/l

RT: 10.32 min Scan# 1381

Delta R.T. -0.00 min

Lab File: VW013201.D

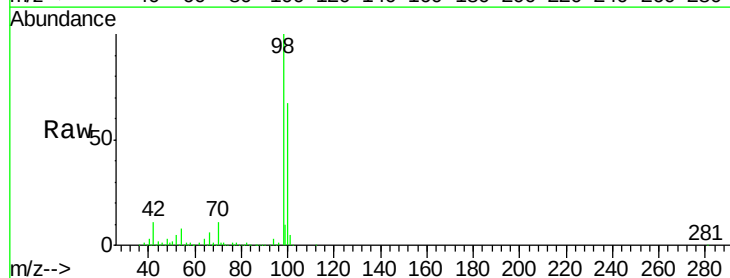
Acq: 21 Sep 2019 00:03

Tgt Ion: 98 Resp: 439253

Ion Ratio Lower Upper

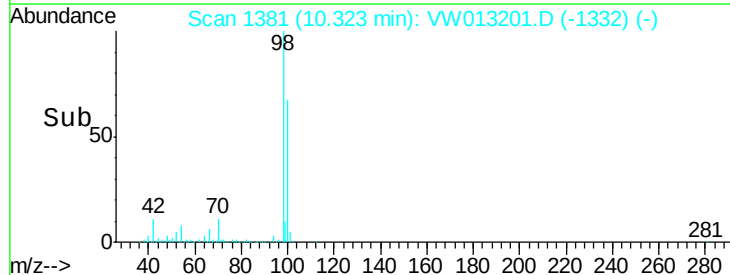
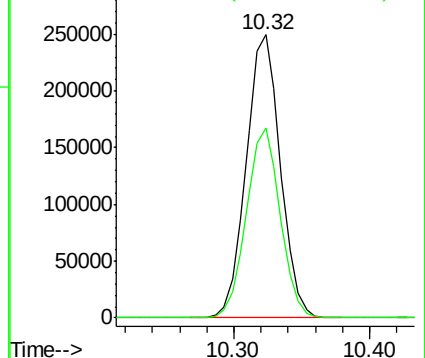
98 100

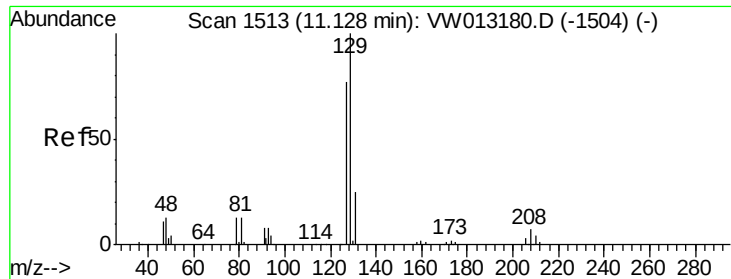
100 66.4 52.9 79.3



Abundance Ion 98.00 (97.70 to 98.70): VW

Ion 100.00 (99.70 to 100.70): VW





#60

Dibromochloromethane

Concen: 1.549 ug/l

RT: 10.86 min Scan# 1469

Delta R.T. -0.27 min

Lab File: VW013201.D

Acq: 21 Sep 2019 00:03

Instrument :

MSVOA_W

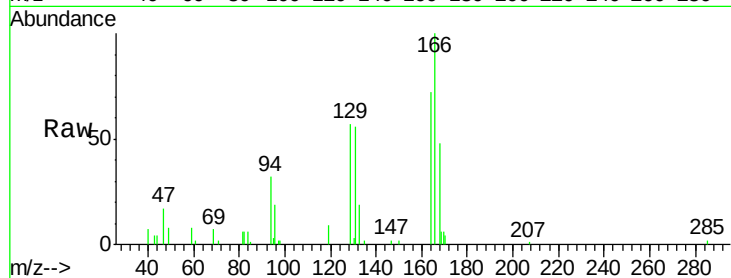
ClientSampleId :

Tot Ion:129 Resp: 3469

Ion Ratio Lower Upper

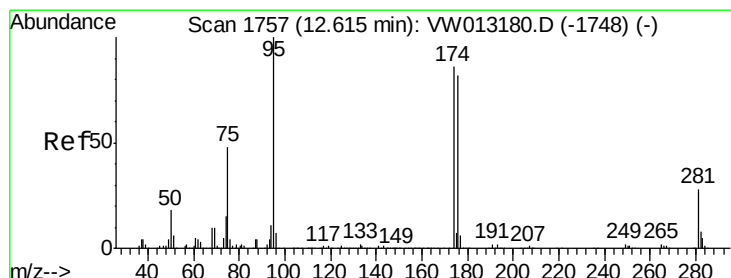
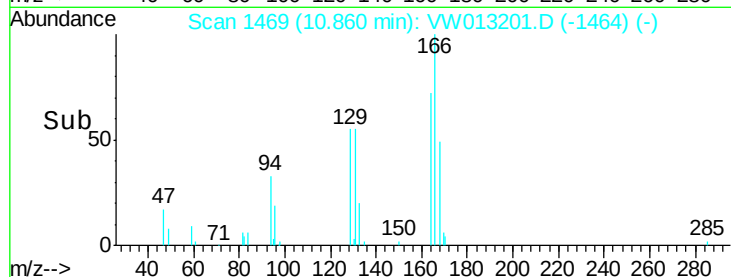
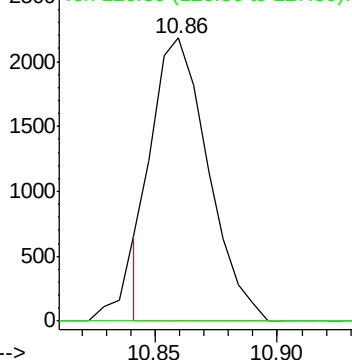
129 100

127 0.0 38.8 116.4#



Abundance Ion 128.80 (128.50 to 129.50): V

Ion 126.80 (126.50 to 127.50): V



#62

4-Bromofluorobenzene

Concen: 31.346 ug/l

RT: 12.62 min Scan# 1757

Delta R.T. -0.00 min

Lab File: VW013201.D

Acq: 21 Sep 2019 00:03

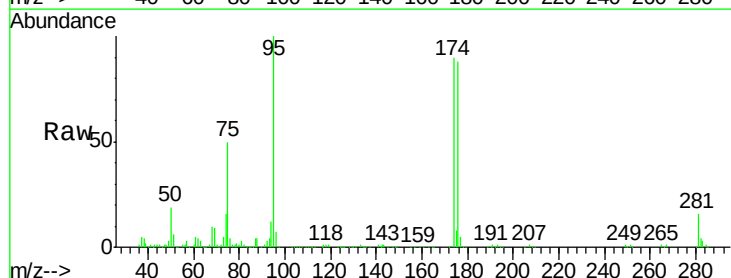
Tgt Ion: 95 Resp: 101569

Ion Ratio Lower Upper

95 100

174 91.5 0.0 178.4

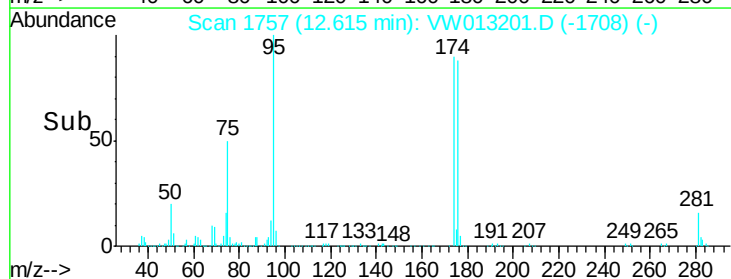
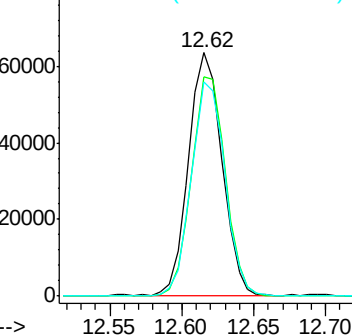
176 88.8 0.0 172.2

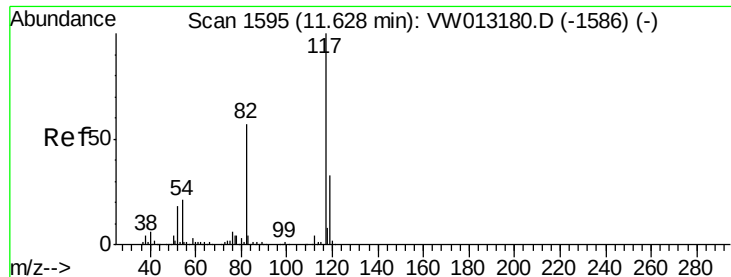


Abundance Ion 94.90 (94.60 to 95.60): VW

Ion 173.80 (173.50 to 174.50): V

Ion 175.80 (175.50 to 176.50): V





#63

Chlorobenzene-d5

Concen: 50.000 ug/l

RT: 11.63 min Scan# 1595

Delta R.T. -0.00 min

Lab File: VW013201.D

Acq: 21 Sep 2019 00:03

Instrument :

MSVOA_W

ClientSampleId :

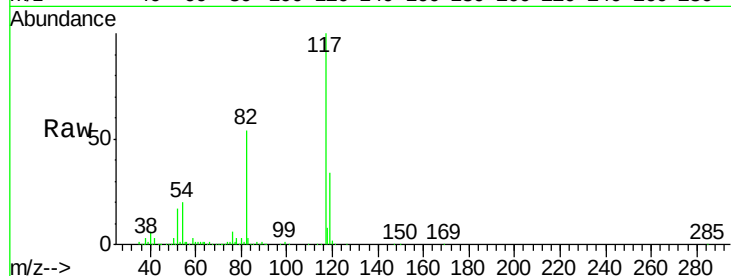
Tot Ion:117 Resp: 285580

Ion Ratio Lower Upper

117 100

82 54.0 45.9 68.9

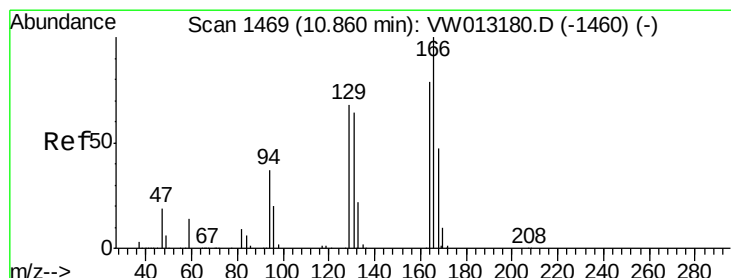
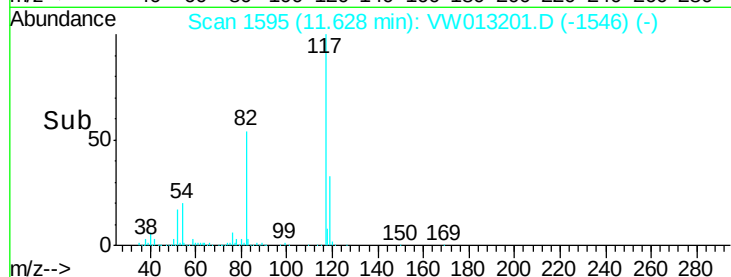
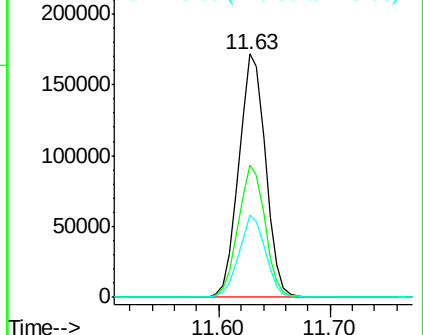
119 33.4 26.2 39.2



Abundance Ion 116.90 (116.60 to 117.60): V

Ion 82.00 (81.70 to 82.70): V

Ion 118.90 (118.60 to 119.60): V



#64

Tetrachloroethene

Concen: 1.958 ug/l

RT: 10.86 min Scan# 1469

Delta R.T. -0.00 min

Lab File: VW013201.D

Acq: 21 Sep 2019 00:03

Tgt Ion:164 Resp: 4242

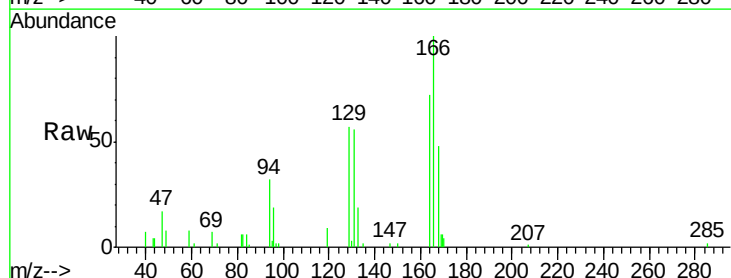
Ion Ratio Lower Upper

164 100

166 138.2 101.2 151.8

129 78.6 68.8 103.2

131 77.3 65.2 97.8

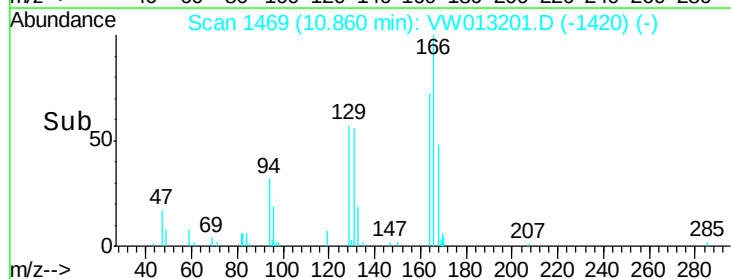
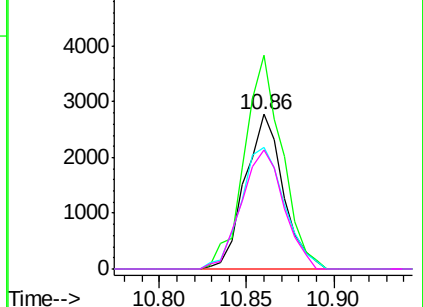


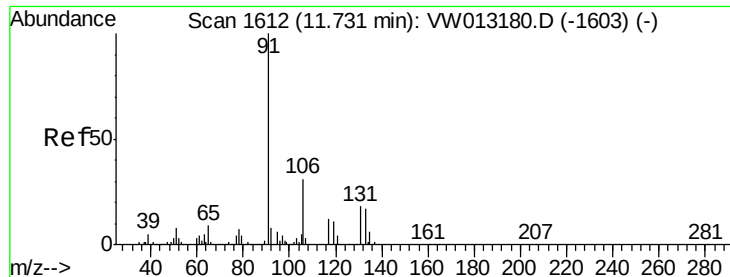
Abundance Ion 163.80 (163.50 to 164.50): V

Ion 165.80 (165.50 to 166.50): V

Ion 128.80 (128.50 to 129.50): V

Ion 130.80 (130.50 to 131.50): V

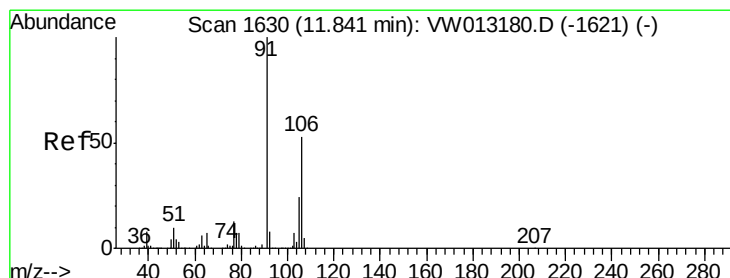
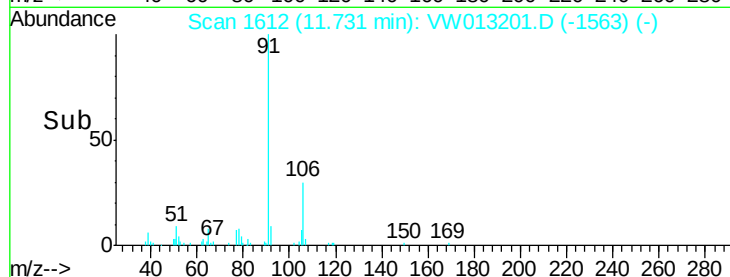
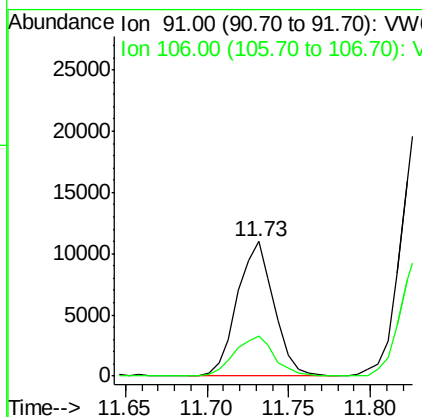
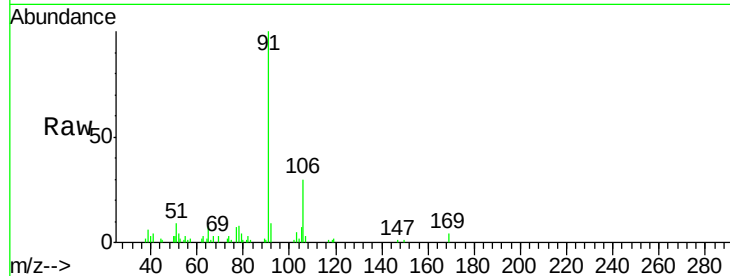




#67
Ethyl Benzene
Concen: 1.594 ug/l
RT: 11.73 min Scan# 1612
Delta R.T. -0.00 min
Lab File: VW013201.D
Acq: 21 Sep 2019 00:03

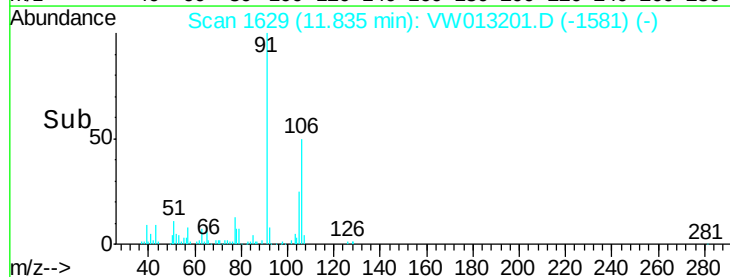
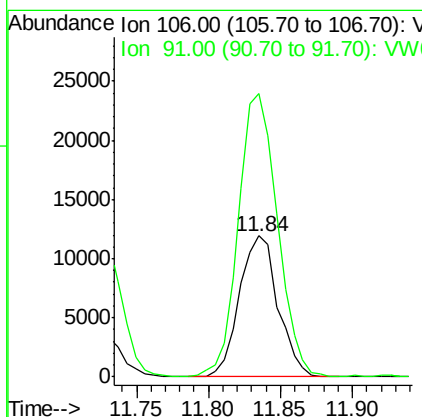
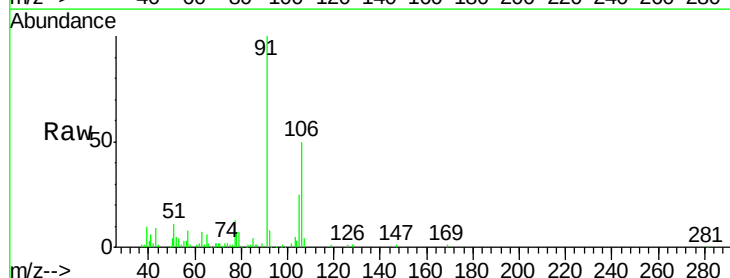
Instrument :
MSVOA_W
ClientSampled :

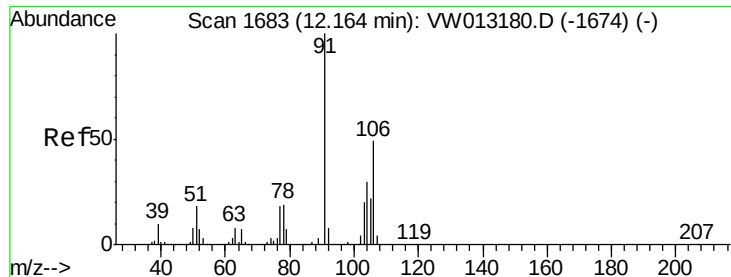
Tot Ion: 91 Resp: 17228
Ion Ratio Lower Upper
91 100
106 29.7 24.9 37.3



#68
m/p-Xylenes
Concen: 5.366 ug/l
RT: 11.84 min Scan# 1629
Delta R.T. -0.01 min
Lab File: VW013201.D
Acq: 21 Sep 2019 00:03

Tgt Ion: 106 Resp: 22093
Ion Ratio Lower Upper
106 100
91 204.1 157.9 236.9

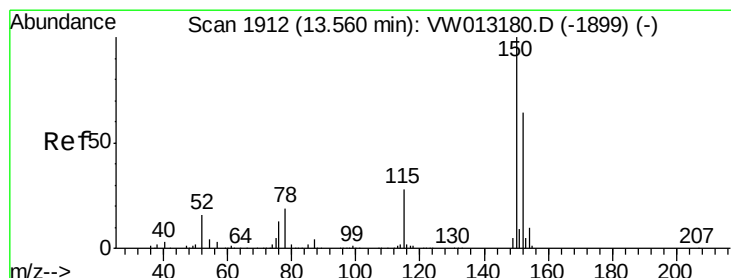
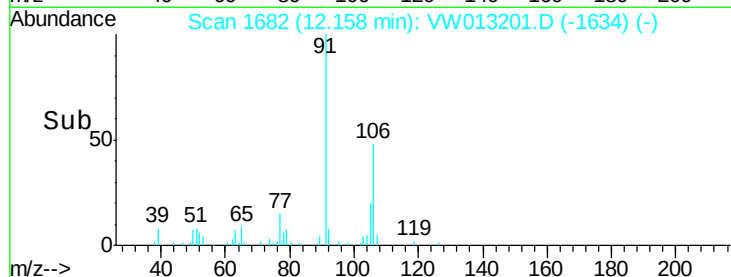
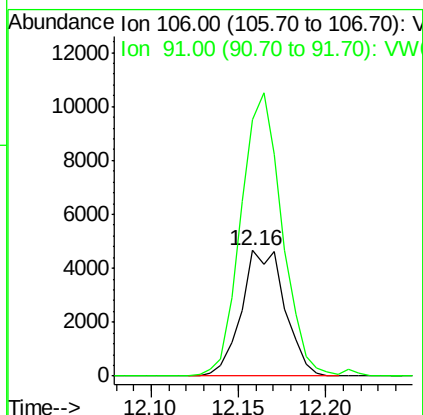
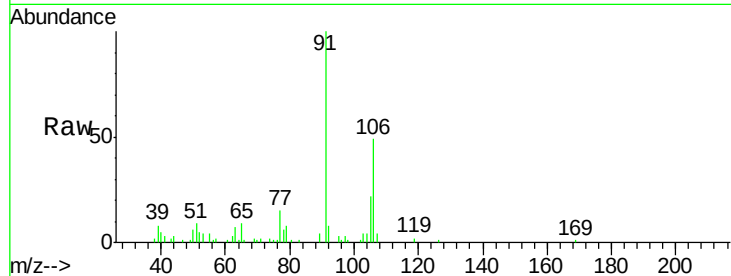




#69
o-Xylene
Concen: 2.093 ug/l
RT: 12.16 min Scan# 1682
Delta R.T. -0.01 min
Lab File: VW013201.D
Acq: 21 Sep 2019 00:03

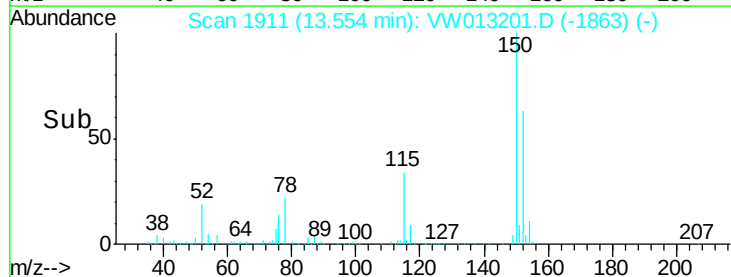
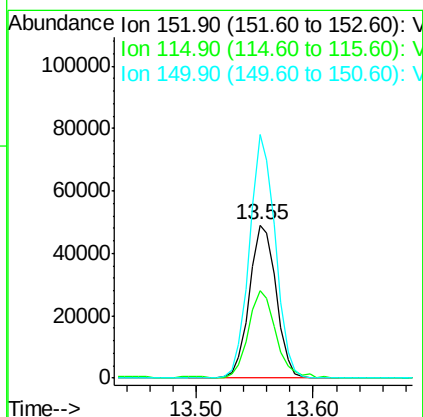
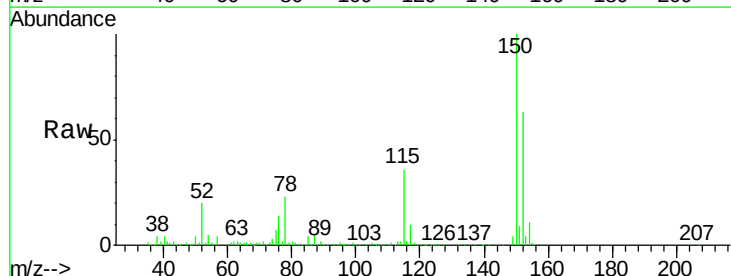
Instrument :
MSVOA_W
ClientSampled :

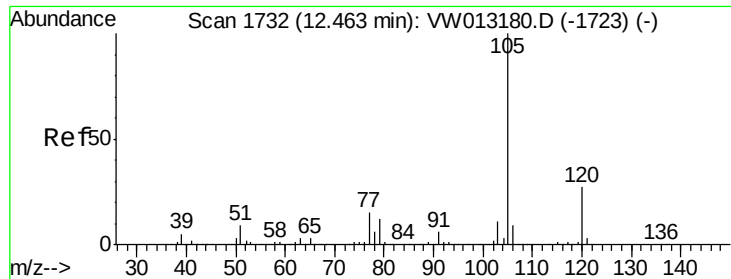
Tot Ion:106 Resp: 8013
Ion Ratio Lower Upper
106 100
91 213.5 106.5 319.5



#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 13.55 min Scan# 1911
Delta R.T. -0.01 min
Lab File: VW013201.D
Acq: 21 Sep 2019 00:03

Tgt Ion:152 Resp: 79035
Ion Ratio Lower Upper
152 100
115 59.1 27.3 81.9
150 153.4 0.0 349.0





#73

Isopropylbenzene

Concen: 1.772 ug/l

RT: 12.46 min Scan# 1732

Delta R.T. -0.00 min

Lab File: VW013201.D

Acq: 21 Sep 2019 00:03

Instrument :

MSVOA_W

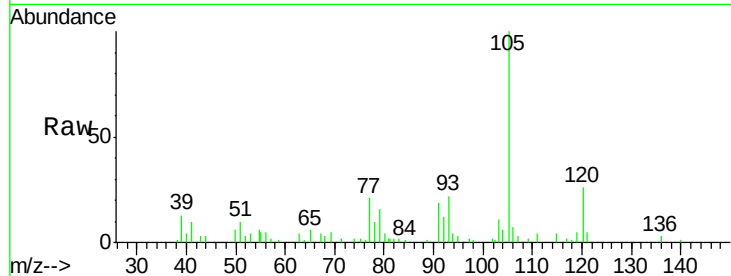
ClientSampleId :

Tot Ion:105 Resp: 10348

Ion Ratio Lower Upper

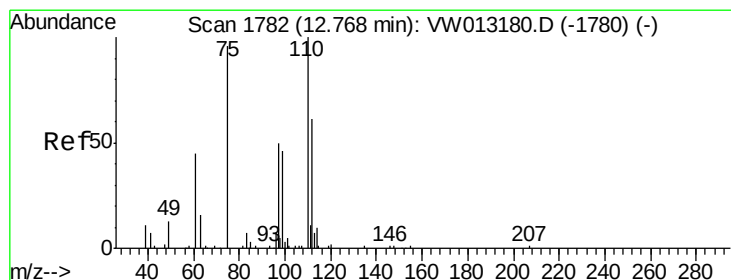
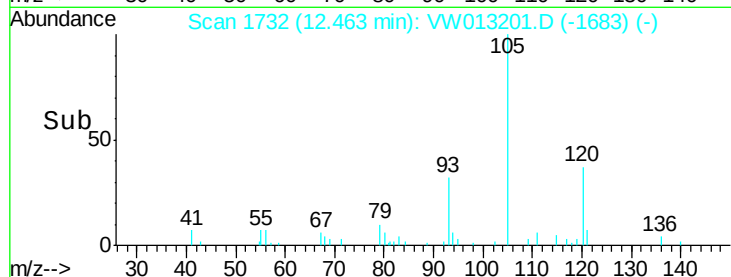
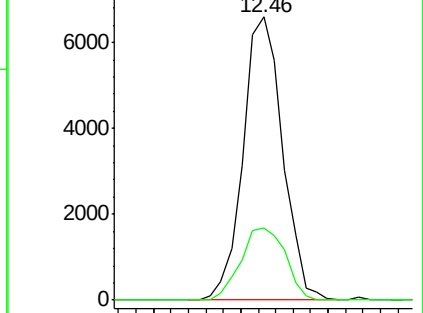
105 100

120 28.7 13.4 40.1



Abundance Ion 105.00 (104.70 to 105.70): V

Ion 120.00 (119.70 to 120.70): V



#76

1,2,3-Trichloropropane

Concen: 72.126 ug/l

RT: 12.62 min Scan# 1757

Delta R.T. -0.15 min

Lab File: VW013201.D

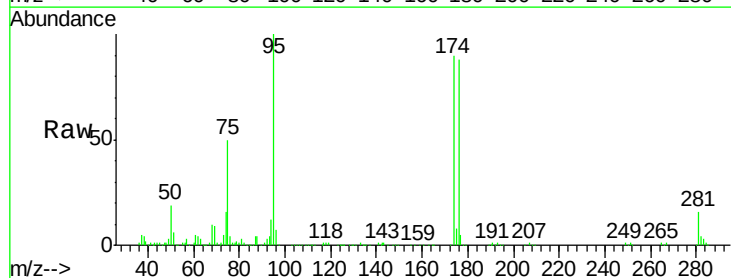
Acq: 21 Sep 2019 00:03

Tgt Ion: 75 Resp: 50343

Ion Ratio Lower Upper

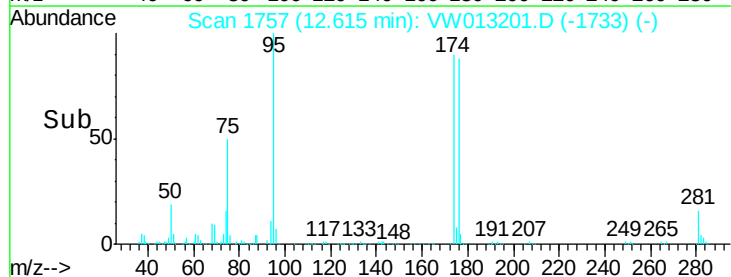
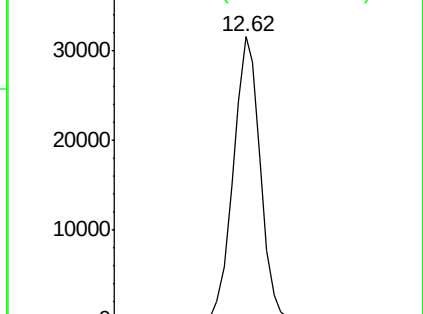
75 100

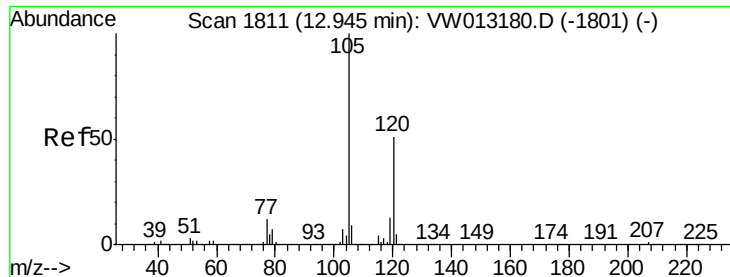
77 1.5 0.0 0.0#



Abundance Ion 74.90 (74.60 to 75.60): VW

Ion 77.00 (76.70 to 77.70): VW





#80

1,3,5-Trimethylbenzene

Concen: 17.026 ug/l

RT: 12.94 min Scan# 1811

Delta R.T. -0.00 min

Lab File: VW013201.D

Acq: 21 Sep 2019 00:03

Instrument :

MSVOA_W

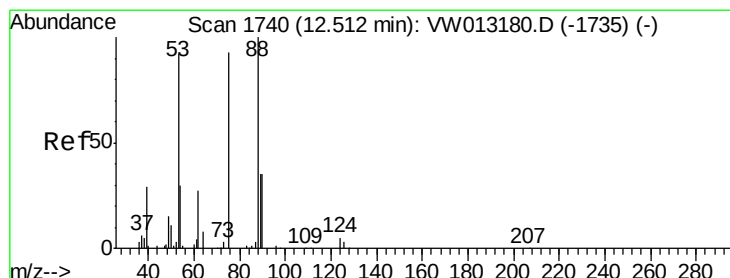
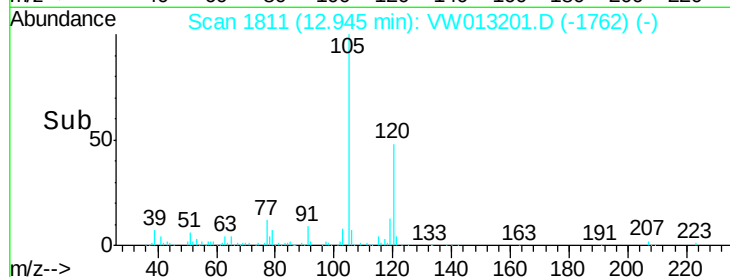
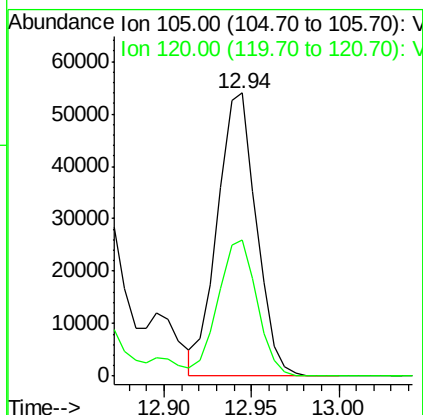
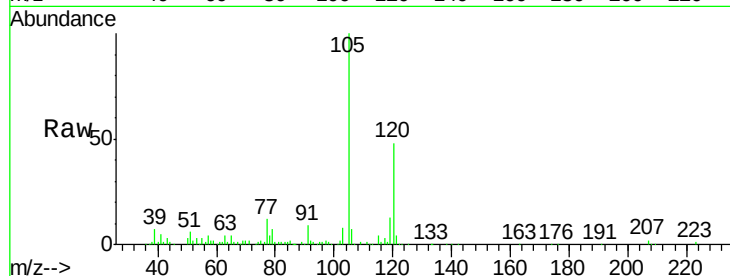
ClientSampled :

Tot Ion:105 Resp: 83561

Ion Ratio Lower Upper

105 100

120 48.3 24.9 74.8



#81

trans-1,4-Dichloro-2-butene

Concen: 161.845 ug/l

RT: 12.62 min Scan# 1757

Delta R.T. 0.10 min

Lab File: VW013201.D

Acq: 21 Sep 2019 00:03

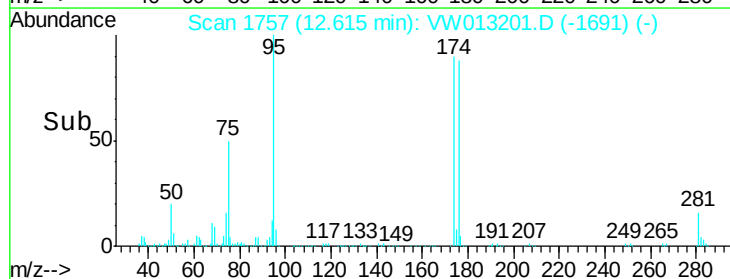
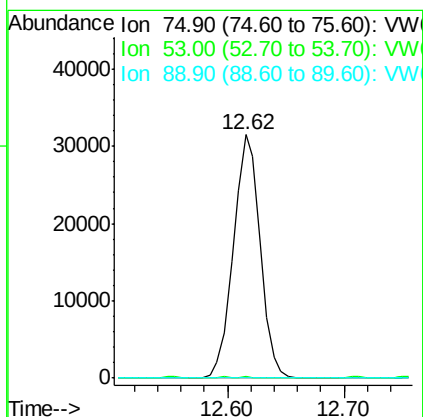
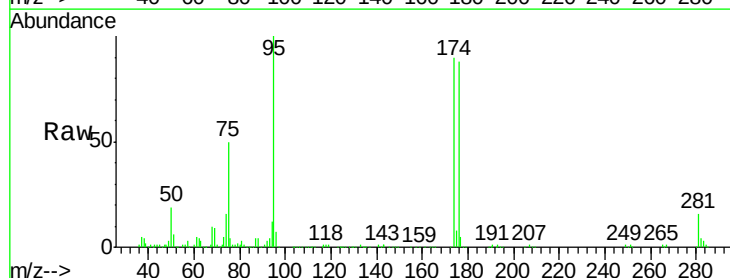
Tgt Ion: 75 Resp: 50343

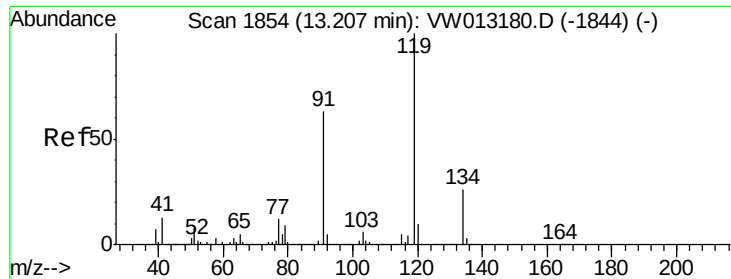
Ion Ratio Lower Upper

75 100

53 0.1 76.6 114.8#

89 0.2 33.5 50.3#

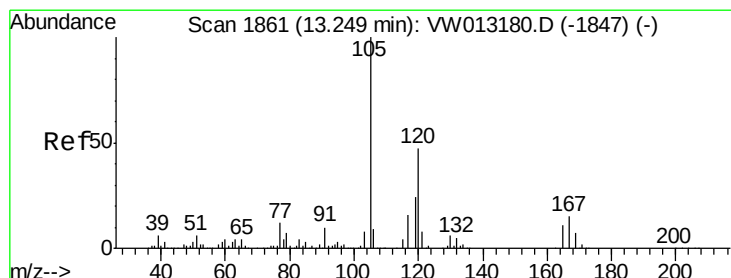
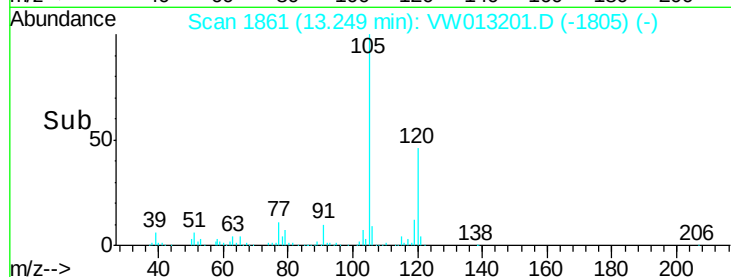
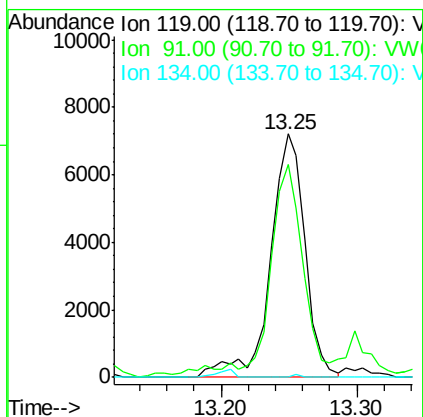
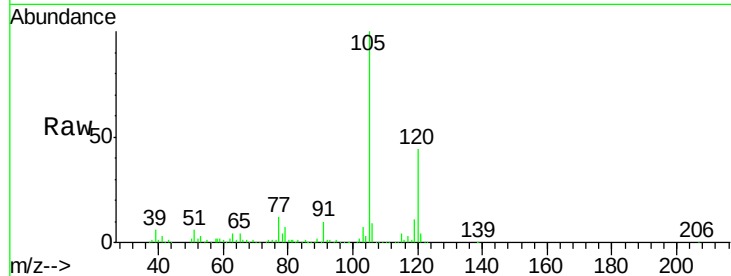




#83
 tert-Butylbenzene
 Concen: 2.954 ug/l
 RT: 13.25 min Scan# 1861
 Delta R.T. 0.04 min
 Lab File: VW013201.D
 Acq: 21 Sep 2019 00:03

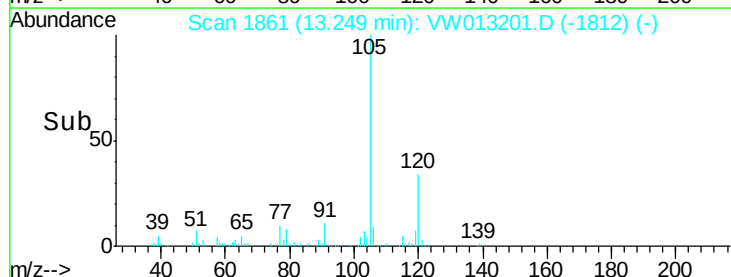
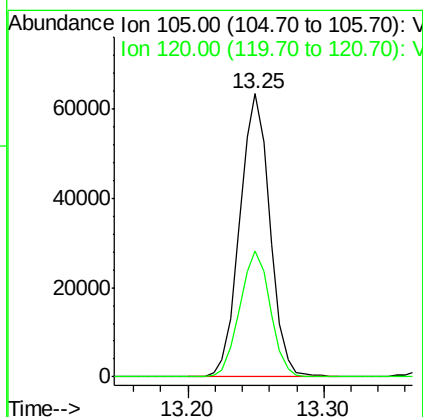
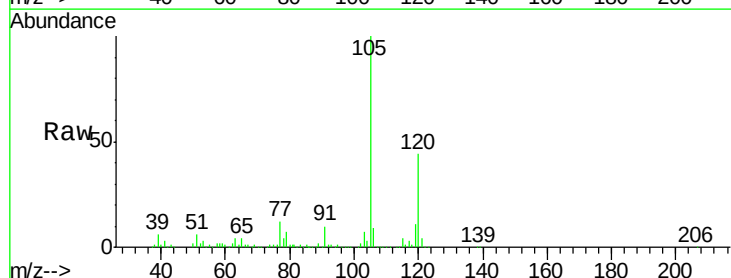
Instrument :
 MSVOA_W
 ClientSampled :

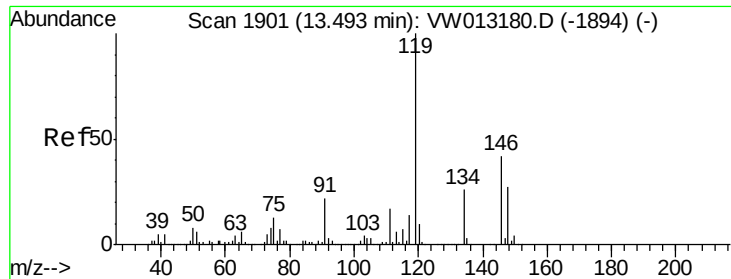
Tot Ion:119 Resp: 12724
 Ion Ratio Lower Upper
 119 100
 91 73.5 30.7 92.1
 134 0.0 12.6 37.6#



#84
 1,2,4-Trimethylbenzene
 Concen: 20.029 ug/l
 RT: 13.25 min Scan# 1861
 Delta R.T. -0.00 min
 Lab File: VW013201.D
 Acq: 21 Sep 2019 00:03

Tgt Ion:105 Resp: 97817
 Ion Ratio Lower Upper
 105 100
 120 45.1 23.4 70.3

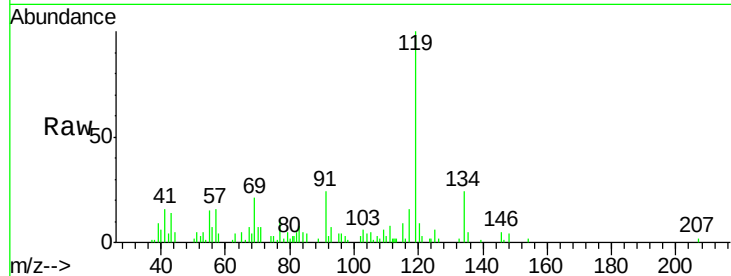




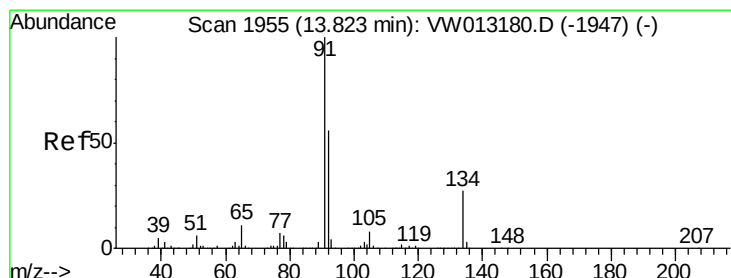
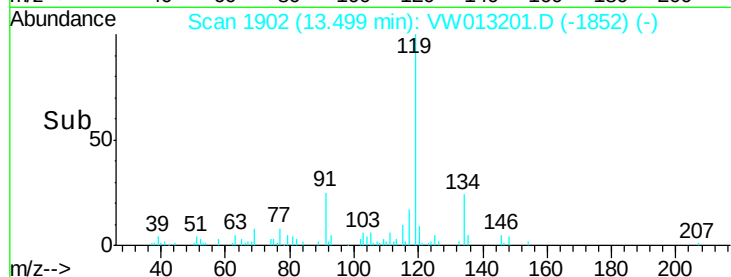
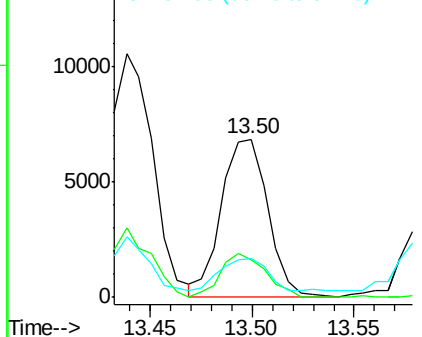
#86
p-Isopropyltoluene
Concen: 1.982 ug/l
RT: 13.50 min Scan# 1902
Delta R.T. 0.01 min
Lab File: VW013201.D
Acq: 21 Sep 2019 00:03

Instrument :
MSVOA_W
ClientSampled :

Tot Ion:119 Resp: 10920
Ion Ratio Lower Upper
119 100
134 26.6 13.3 39.8
91 20.7 10.8 32.4

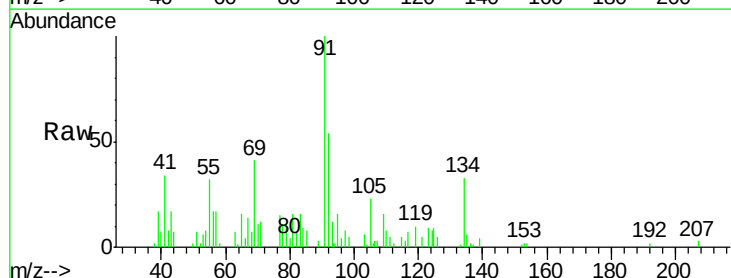


Abundance Ion 119.00 (118.70 to 119.70): V
Ion 134.00 (133.70 to 134.70): V
Ion 91.00 (90.70 to 91.70): V

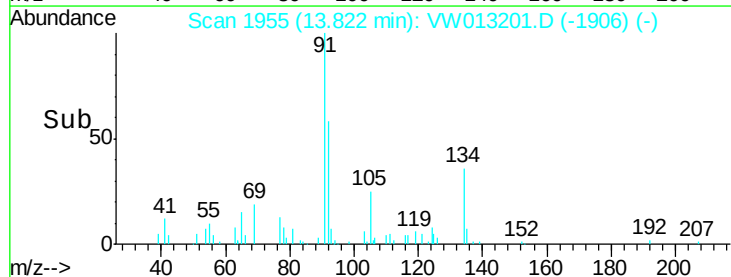
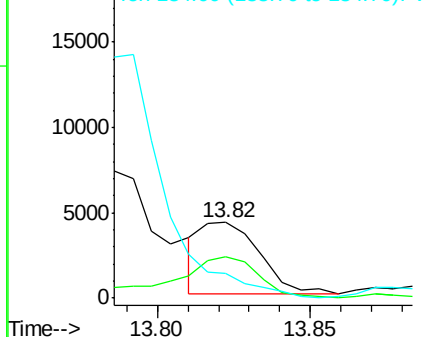


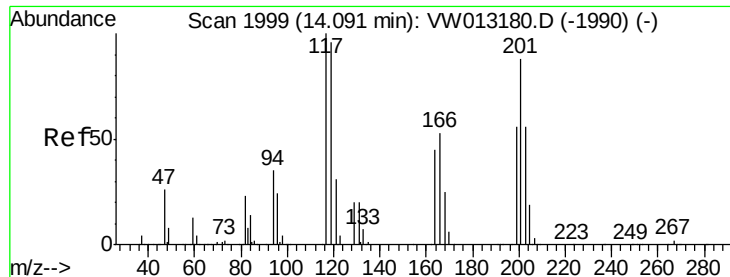
#89
n-Butylbenzene
Concen: 1.118 ug/l
RT: 13.82 min Scan# 1955
Delta R.T. -0.00 min
Lab File: VW013201.D
Acq: 21 Sep 2019 00:03

Tgt Ion: 91 Resp: 5625
Ion Ratio Lower Upper
91 100
92 69.4 27.6 82.8
134 0.0 13.7 41.1#



Abundance Ion 91.00 (90.70 to 91.70): V
Ion 92.00 (91.70 to 92.70): V
Ion 134.00 (133.70 to 134.70): V





#90

Hexachloroethane

Concen: 5.090 ug/l

RT: 14.10 min Scan# 2000

Delta R.T. 0.01 min

Lab File: VW013201.D

Acq: 21 Sep 2019 00:03

Instrument :

MSVOA_W

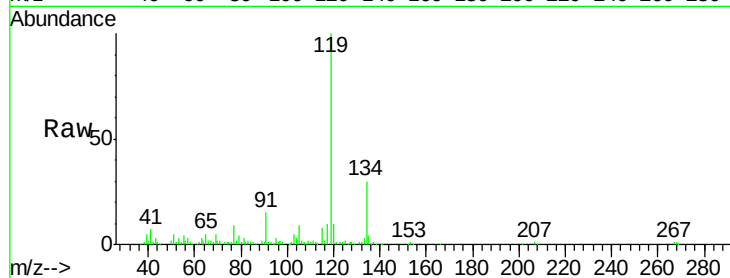
ClientSampleId :

Tot Ion:117 Resp: 4710

Ion Ratio Lower Upper

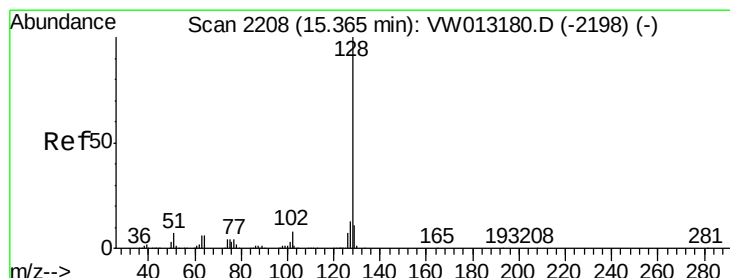
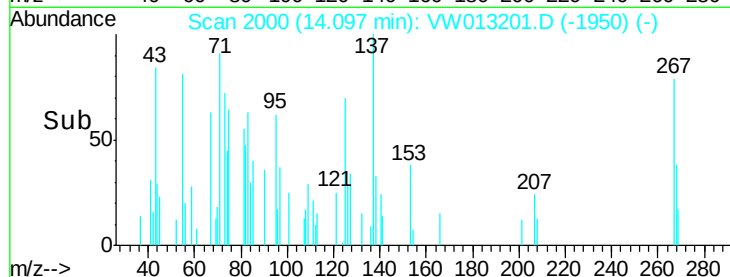
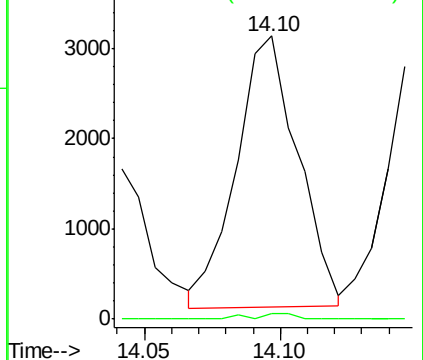
117 100

201 1.3 44.5 133.5#



Abundance Ion 116.80 (116.50 to 117.50): V

Ion 200.70 (200.40 to 201.40): V



#95

Naphthalene

Concen: 103.882 ug/l

RT: 15.36 min Scan# 2208

Delta R.T. -0.00 min

Lab File: VW013201.D

Acq: 21 Sep 2019 00:03

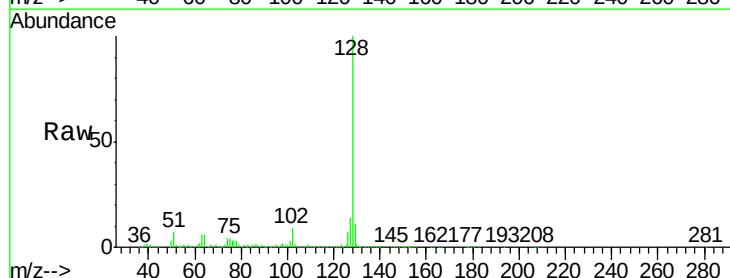
Tgt Ion:128 Resp: 280453

Ion Ratio Lower Upper

128 100

127 14.1 10.6 15.8

129 10.8 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

