

Data Path : Z:\VOASRV\HPCHEM1\MSVOA W\DATA\VW102819\
 Data File : VW013779.D
 Acq On : 28 Oct 2019 20:43
 Operator : SY/VA
 Sample : K5563-08
 Misc : 6.40G/5ML/MSVOA W/SOIL
 ALS Vial : 22 Sample Multiplier: 1

Instrument :
 MSVOA_W
 ClientSampleId :
 TP-1

Quant Time: Oct 29 11:48:58 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_W\METHOD\82W102319S.M
 Quant Title : SW846 8260
 QLast Update : Wed Oct 23 14:11:46 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	7.95	168	239668	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	8.84	114	344436	50.00	ug/l	0.00
63) Chlorobenzene-d5	11.63	117	232698	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.56	152	77226	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	101658	56.54	ug/l	0.00
Spiked Amount			Recovery	=	113.08%	
35) Dibromofluoromethane	7.88	113	103241	53.94	ug/l	0.00
Spiked Amount			Recovery	=	107.88%	
50) Toluene-d8	10.32	98	366578	47.01	ug/l	0.00
Spiked Amount			Recovery	=	94.02%	
62) 4-Bromofluorobenzene	12.62	95	87821	33.26	ug/l	0.00
Spiked Amount			Recovery	=	66.52%	

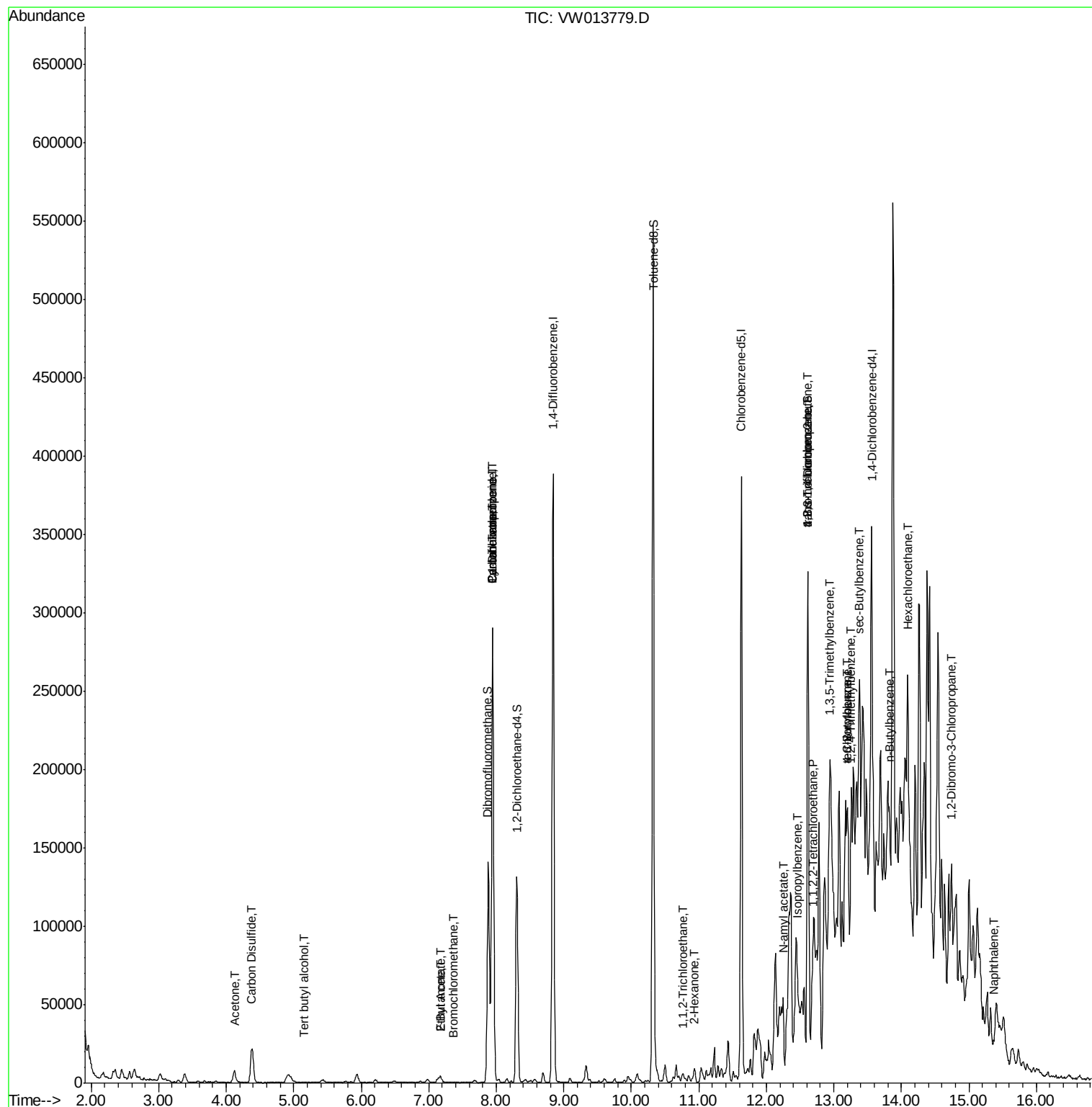
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
11) Tert butyl alcohol	5.16	59	753	7.016	ug/l #	71
16) Acetone	4.12	43	13686	35.901	ug/l	98
17) Carbon Disulfide	4.38	76	49623	8.039	ug/l	99
20) Methylene Chloride	4.91	84	3822	Below Cal		89
25) 2-Butanone	7.18	43	4061	7.410	ug/l	94
28) Bromochloromethane	7.37	49	30	1.362	ug/l #	7
31) Cyclohexane	7.95	56	5692	1.424	ug/l #	1
36) 1,1-Dichloropropene	7.95	75	15109	4.710	ug/l #	49
37) Ethyl Acetate	7.18	43	4061	3.307	ug/l #	87
38) Carbon Tetrachloride	7.95	117	20188	6.989	ug/l #	15
55) 1,1,2-Trichloroethane	10.76	97	1815	1.157	ug/l #	21
59) 2-Hexanone	10.93	43	3356	4.168	ug/l #	24
73) Isopropylbenzene	12.46	105	6726	1.213	ug/l	98
74) N-amyl acetate	12.25	43	11901	11.093	ug/l #	41
75) 1,1,2,2-Tetrachloroethane	12.68	83	5396	6.166	ug/l #	26
76) 1,2,3-Trichloropropane	12.62	75	40204	72.493	ug/l #	100
80) 1,3,5-Trimethylbenzene	12.94	105	9563	2.043	ug/l	99
81) trans-1,4-Dichloro-2-buten	12.62	75	40204	137.002	ug/l #	15
82) 4-Chlorotoluene	13.21	91	7236	1.911	ug/l	77
83) tert-Butylbenzene	13.21	119	10670	2.568	ug/l	92
84) 1,2,4-Trimethylbenzene	13.25	105	16525	3.578	ug/l	95
85) sec-Butylbenzene	13.38	105	53765	9.461	ug/l #	50
89) n-Butylbenzene	13.82	91	18449	3.861	ug/l #	61
90) Hexachloroethane	14.10	117	2875	3.125	ug/l #	4
92) 1,2-Dibromo-3-Chloropropan	14.75	75	181	1.368	ug/l	62
95) Naphthalene	15.36	128	3885	1.530	ug/l #	75

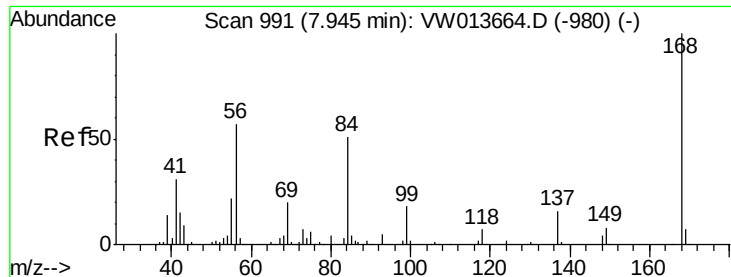
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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QLast Update : Wed Oct 23 14:11:46 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: VW013779.D

Acq: 28 Oct 2019 20:43

Instrument :

MSVOA_W

ClientSampleId :

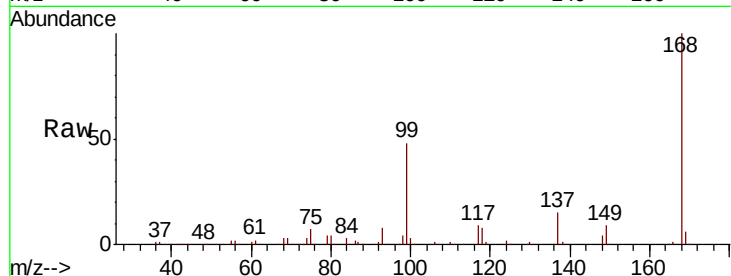
TP-1

Tot Ion:168 Resp: 239668

Ion Ratio Lower Upper

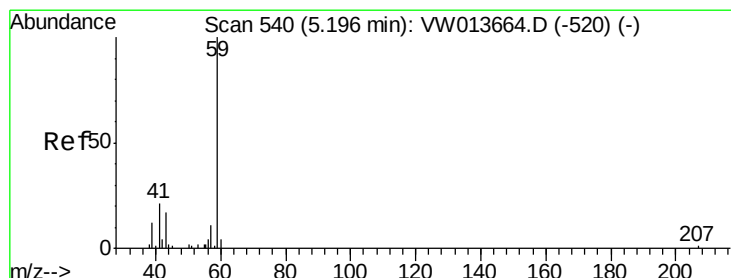
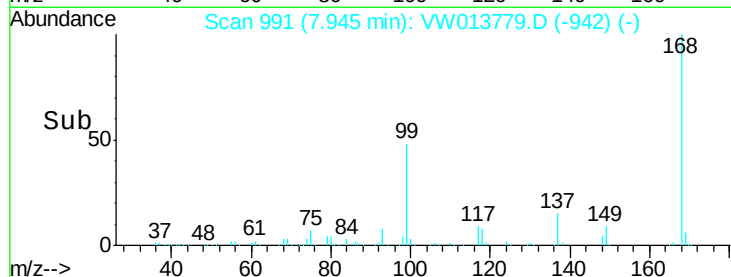
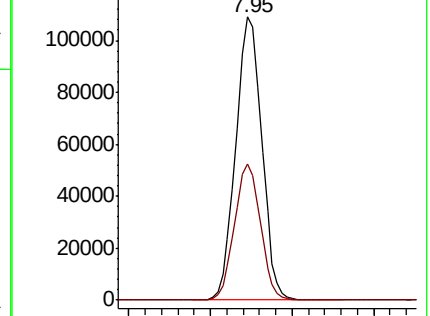
168 100

99 48.0 39.0 58.6



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VW



#11

Tert butyl alcohol

Concen: 7.016 ug/l

RT: 5.16 min Scan# 534

Delta R.T. -0.04 min

Lab File: VW013779.D

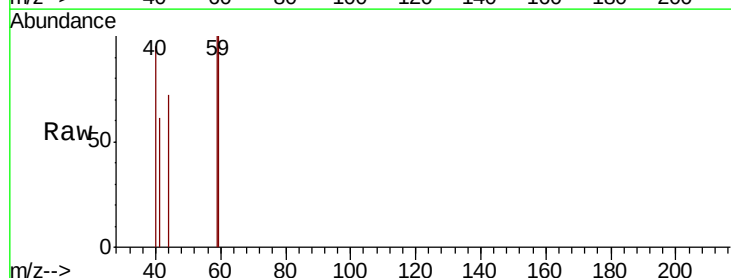
Acq: 28 Oct 2019 20:43

Tgt Ion: 59 Resp: 753

Ion Ratio Lower Upper

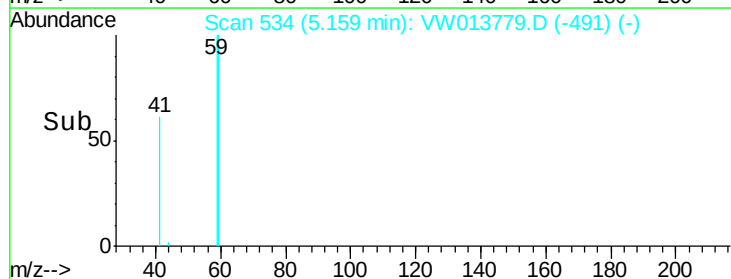
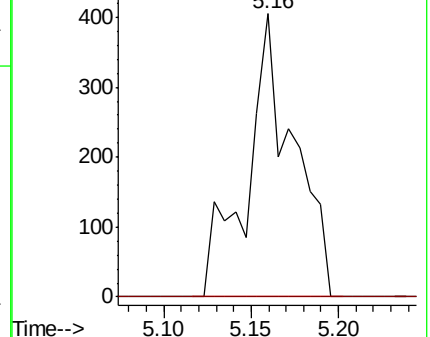
59 100

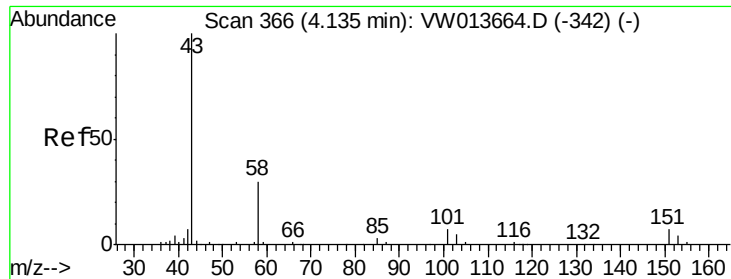
57 0.0 8.8 13.2#



Abundance Ion 59.00 (58.70 to 59.70): VW

Ion 57.00 (56.70 to 57.70): VW





#16

Acetone

Concen: 35.901 ug/l

RT: 4.12 min Scan# 363

Delta R.T. -0.02 min

Lab File: VW013779.D

Acq: 28 Oct 2019 20:43

Instrument :

MSVOA_W

ClientSampled :

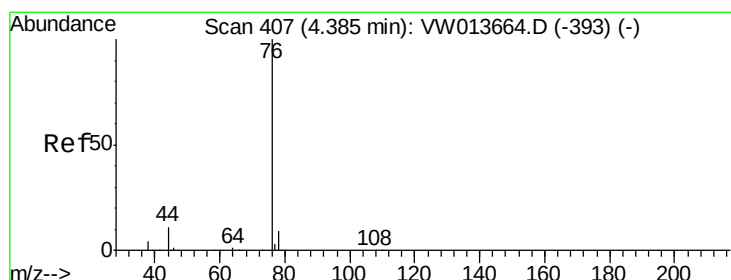
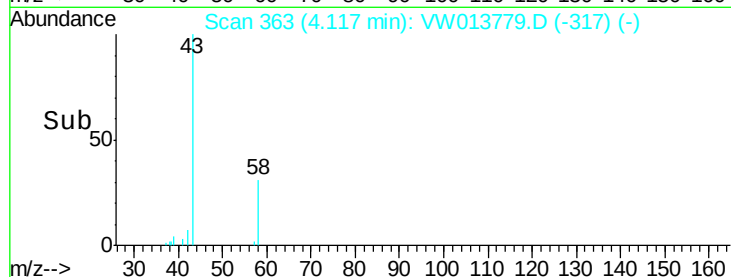
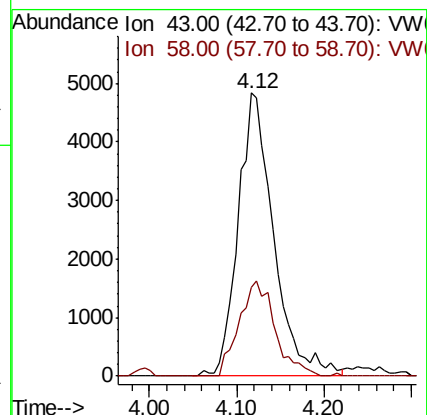
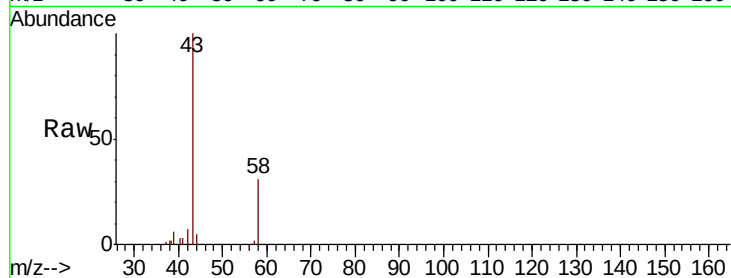
TP-1

Tot Ion: 43 Resp: 13686

Ion Ratio Lower Upper

43 100

58 31.4 24.1 36.1



#17

Carbon Disulfide

Concen: 8.039 ug/l

RT: 4.38 min Scan# 406

Delta R.T. -0.01 min

Lab File: VW013779.D

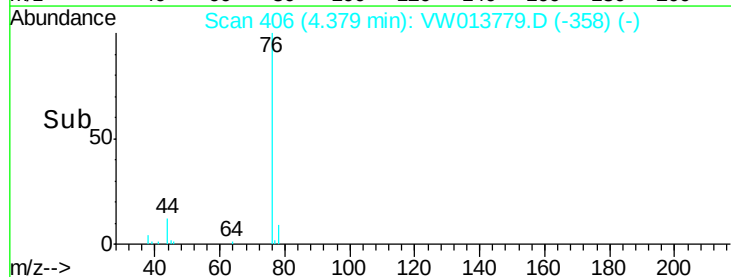
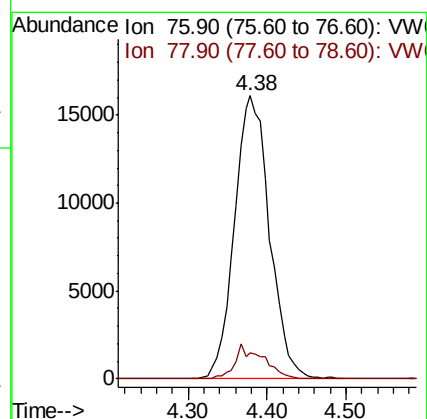
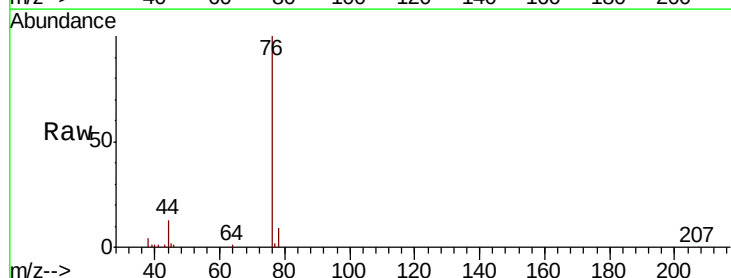
Acq: 28 Oct 2019 20:43

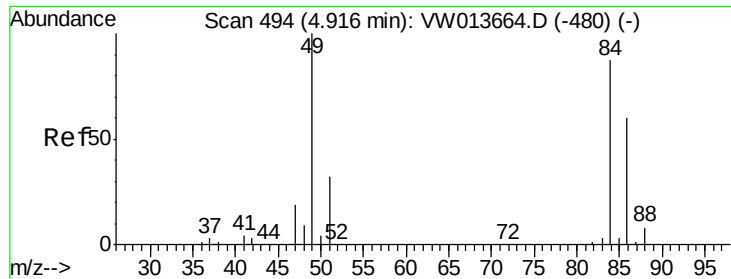
Tgt Ion: 76 Resp: 49623

Ion Ratio Lower Upper

76 100

78 9.2 7.0 10.6

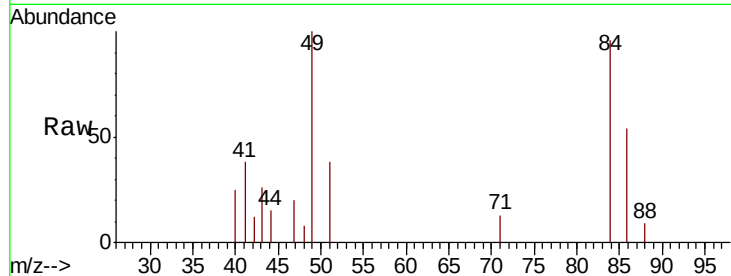




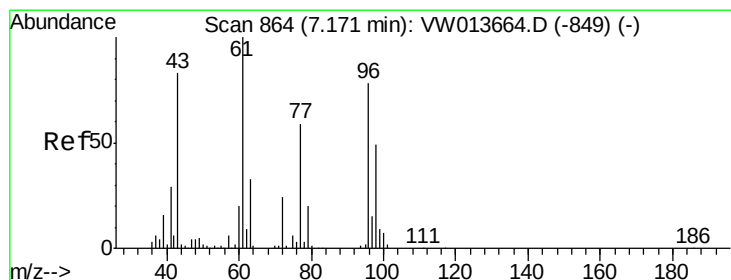
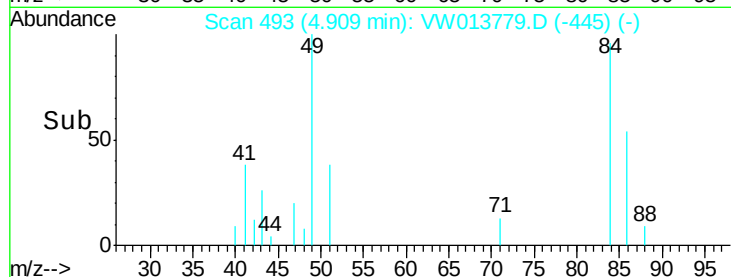
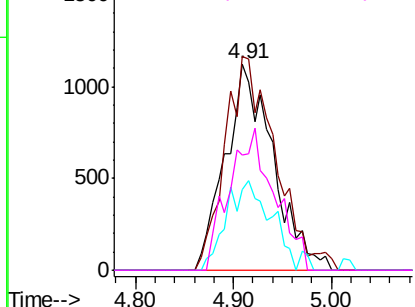
#20
Methvlene Chloride
Concen: Below Cal
RT: 4.91 min Scan# 493
Delta R.T. -0.01 min
Lab File: VW013779.D
Acq: 28 Oct 2019 20:43

Instrument :
MSVOA_W
ClientSampled :
TP-1

Tot Ion:	84	Resp:	3822
Ion	Ratio	Lower	Upper
84	100		
49	103.7	91.8	137.6
51	39.1	29.8	44.6
86	56.0	55.2	82.8

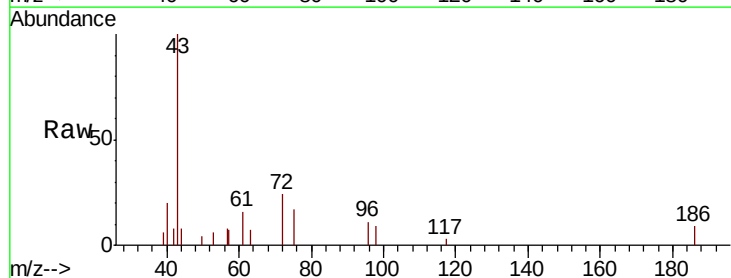


Abundance Ion 83.90 (83.60 to 84.60): VW
Ion 48.90 (48.60 to 49.60): VW
Ion 50.90 (50.60 to 51.60): VW
Ion 85.90 (85.60 to 86.60): VW

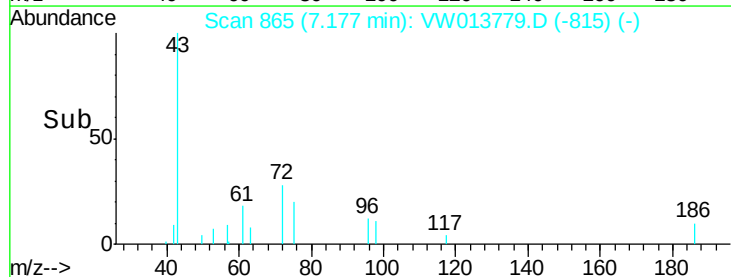
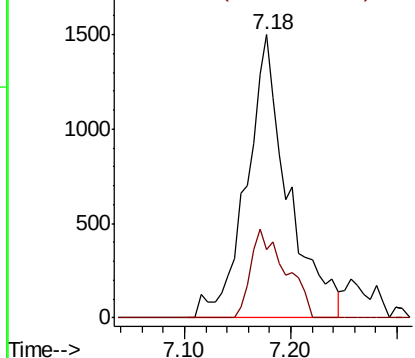


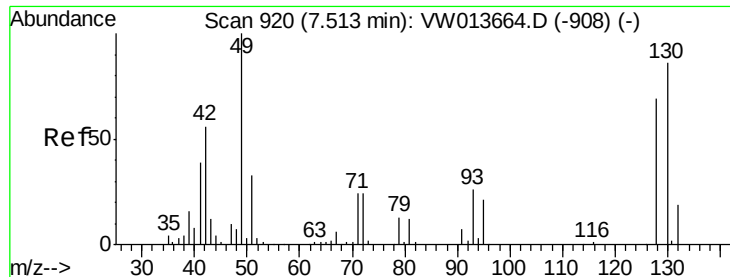
#25
2-Butanone
Concen: 7.410 ug/l
RT: 7.18 min Scan# 865
Delta R.T. 0.01 min
Lab File: VW013779.D
Acq: 28 Oct 2019 20:43

Tgt Ion:	43	Resp:	4061
Ion	Ratio	Lower	Upper
43	100		
72	26.2	23.6	35.4



Abundance Ion 43.00 (42.70 to 43.70): VW
Ion 72.00 (71.70 to 72.70): VW

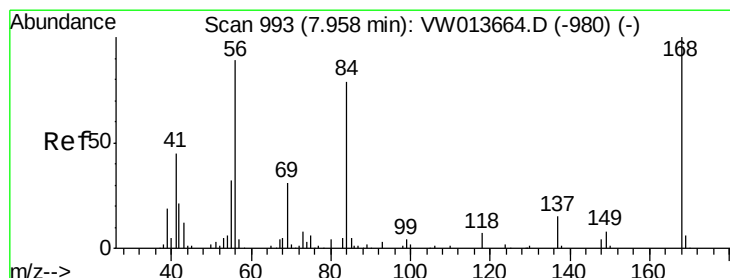
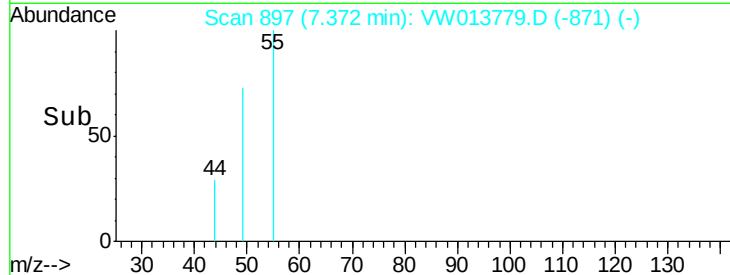
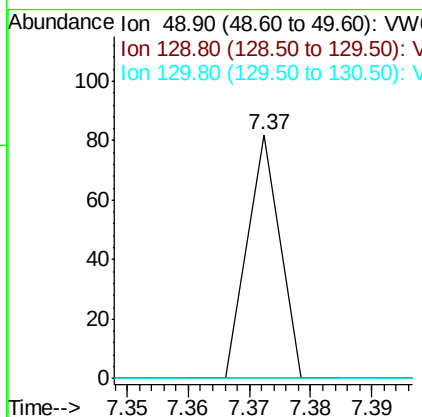
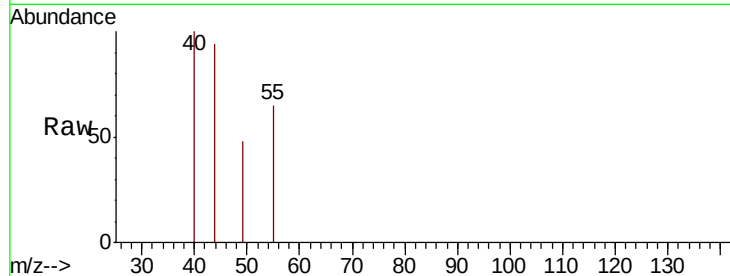




#28
 Bromochloromethane
 Concen: 1.362 ug/l
 RT: 7.37 min Scan# 897
 Delta R.T. -0.14 min
 Lab File: VW013779.D
 Acq: 28 Oct 2019 20:43

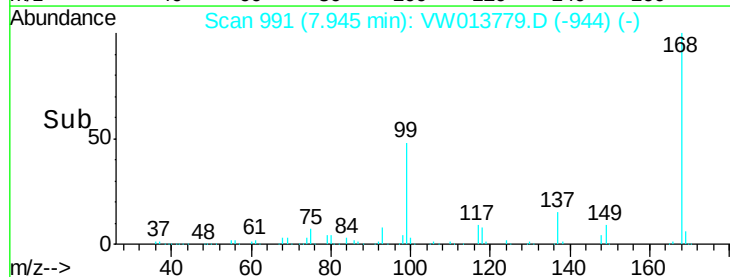
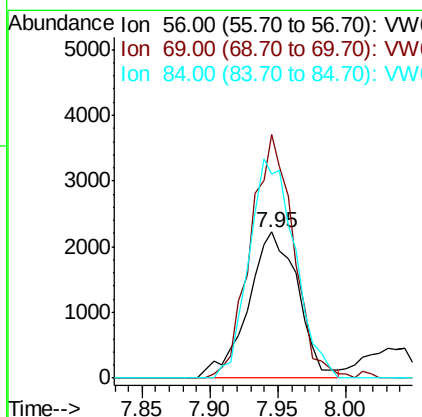
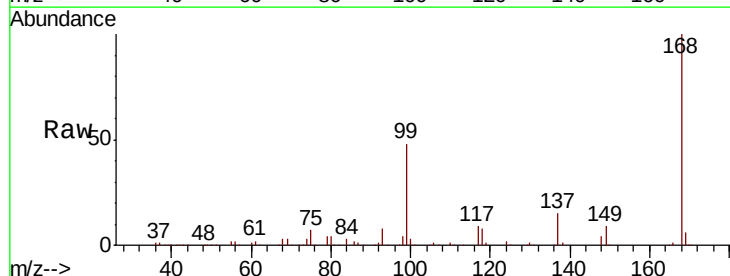
Instrument :
 MSVOA_W
 ClientSampled :
 TP-1

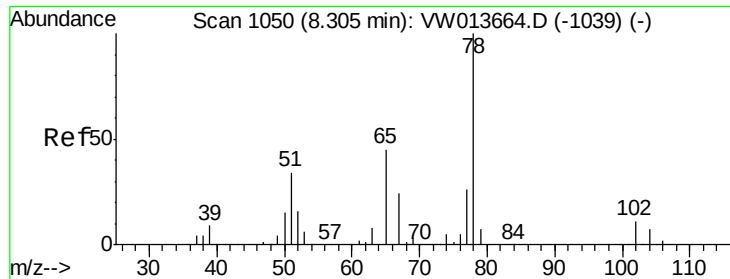
Tot Ion: 49 Resp: 30
 Ion Ratio Lower Upper
 49 100
 129 0.0 0.0 0.6
 130 0.0 67.5 101.3#



#31
 Cyclohexane
 Concen: 1.424 ug/l
 RT: 7.95 min Scan# 991
 Delta R.T. -0.01 min
 Lab File: VW013779.D
 Acq: 28 Oct 2019 20:43

Tgt Ion: 56 Resp: 5692
 Ion Ratio Lower Upper
 56 100
 69 166.7 27.5 41.3#
 84 139.6 70.8 106.2#

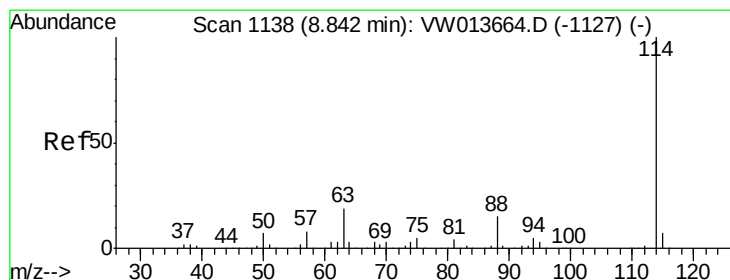
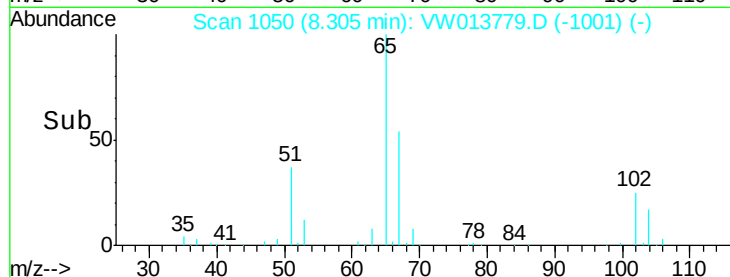
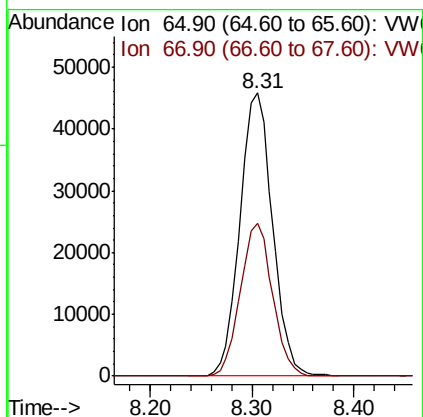
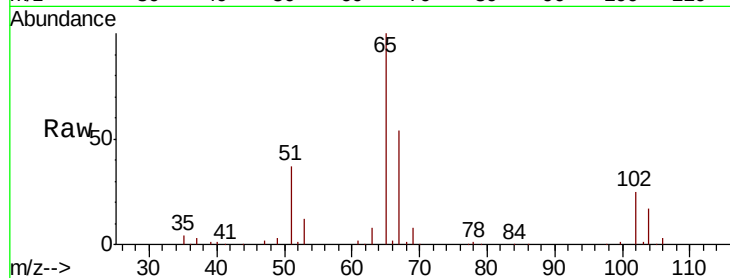




#33
 1,2-Dichloroethane-d4
 Concen: 56.543 ug/l
 RT: 8.31 min Scan# 1050
 Delta R.T. -0.00 min
 Lab File: VW013779.D
 Acq: 28 Oct 2019 20:43

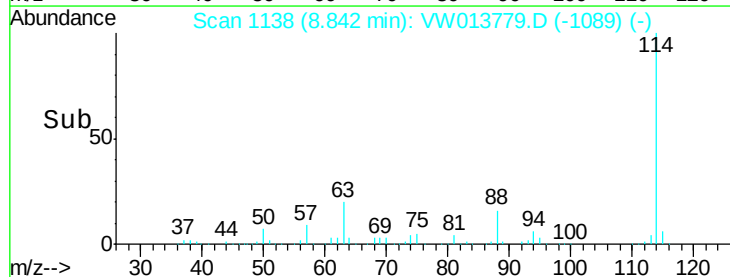
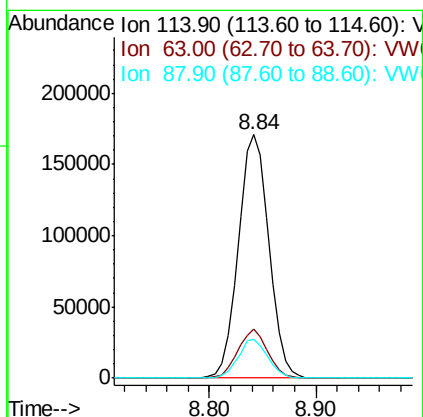
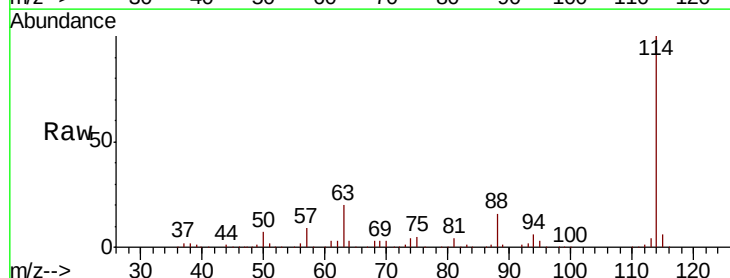
Instrument :
 MSVOA_W
 ClientSampled :
 TP-1

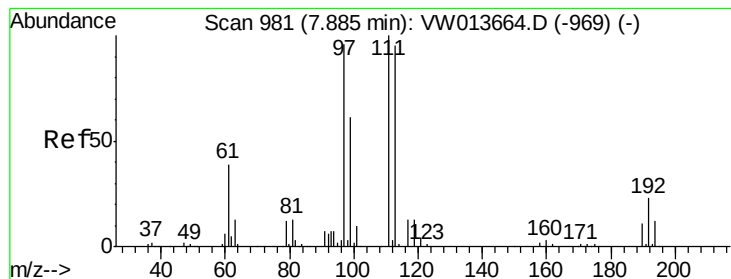
Tot Ion: 65 Resp: 101658
 Ion Ratio Lower Upper
 65 100
 67 53.1 0.0 109.4



#34
 1,4-Difluorobenzene
 Concen: 50.000 ug/l
 RT: 8.84 min Scan# 1138
 Delta R.T. -0.00 min
 Lab File: VW013779.D
 Acq: 28 Oct 2019 20:43

Tgt Ion: 114 Resp: 344436
 Ion Ratio Lower Upper
 114 100
 63 20.4 0.0 37.6
 88 15.9 0.0 30.2





#35

Dibromofluoromethane

Concen: 53.943 ug/l

RT: 7.88 min Scan# 980

Delta R.T. -0.01 min

Lab File: VW013779.D

Acq: 28 Oct 2019 20:43

Instrument :

MSVOA_W

ClientSampled :

TP-1

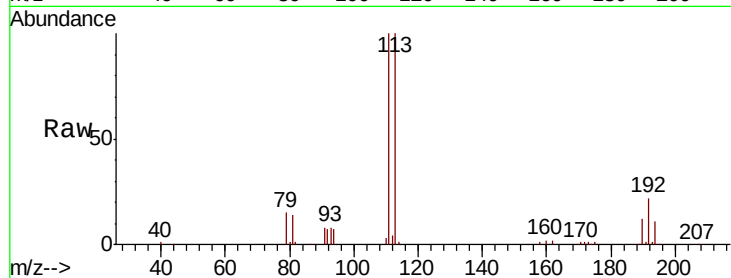
Tot Ion:113 Resp: 103241

Ion Ratio Lower Upper

113 100

111 102.7 83.0 124.6

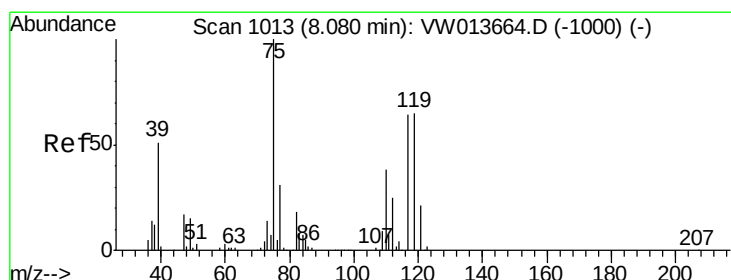
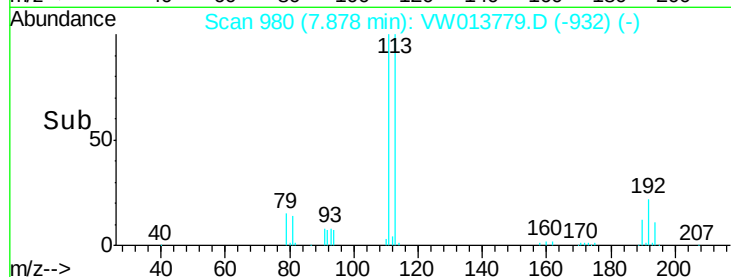
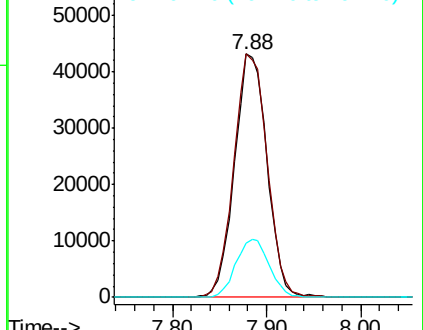
192 24.5 19.4 29.2



Abundance Ion 112.80 (112.50 to 113.50): V

Ion 110.80 (110.50 to 111.50): V

Ion 191.70 (191.40 to 192.40): V



#36

1,1-Dichloropropene

Concen: 4.710 ug/l

RT: 7.95 min Scan# 991

Delta R.T. -0.13 min

Lab File: VW013779.D

Acq: 28 Oct 2019 20:43

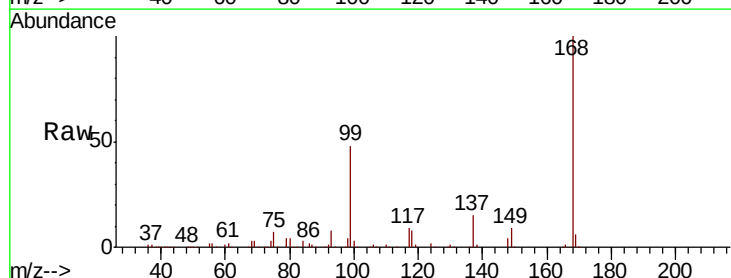
Tgt Ion: 75 Resp: 15109

Ion Ratio Lower Upper

75 100

110 10.0 18.7 56.1#

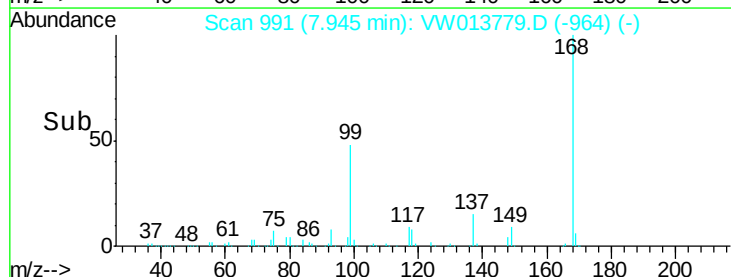
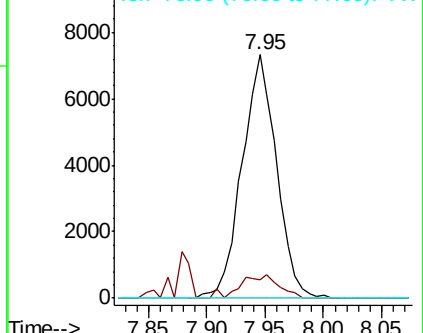
77 0.0 25.4 38.0#

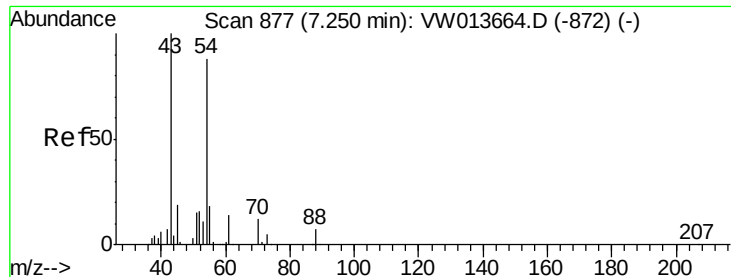


Abundance Ion 74.90 (74.60 to 75.60): VW

Ion 109.90 (109.60 to 110.60): V

Ion 76.90 (76.60 to 77.60): VW

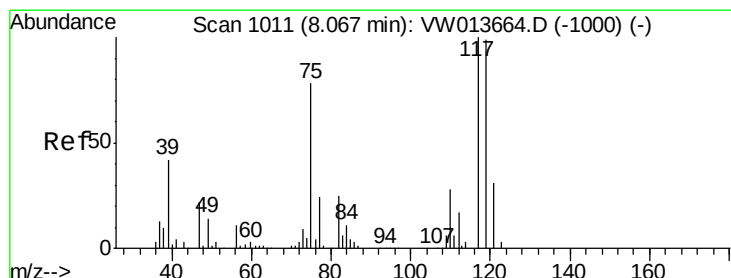
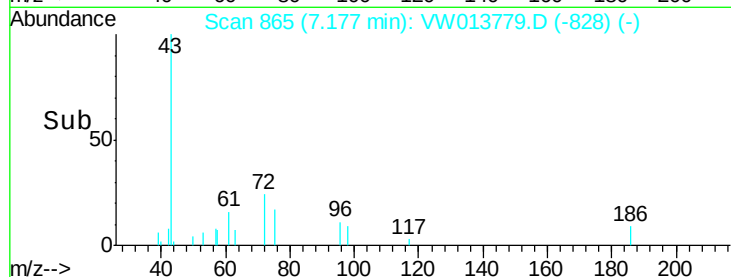
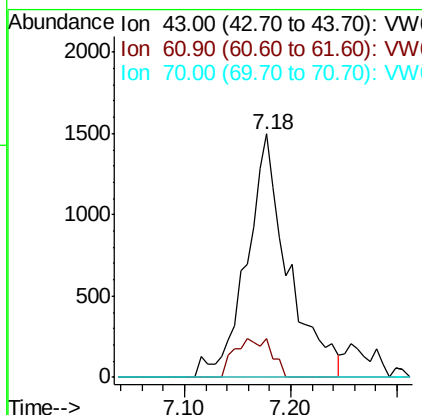
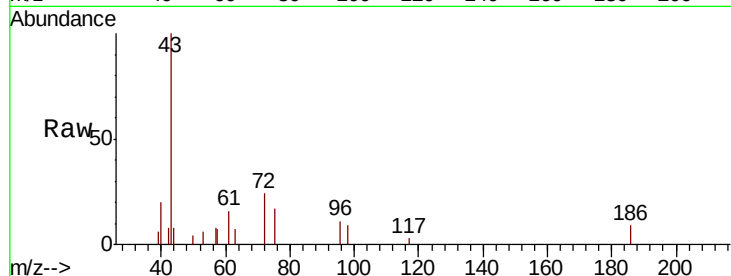




#37
Ethyl Acetate
Concen: 3.307 ug/l
RT: 7.18 min Scan# 865
Delta R.T. -0.07 min
Lab File: VW013779.D
Acq: 28 Oct 2019 20:43

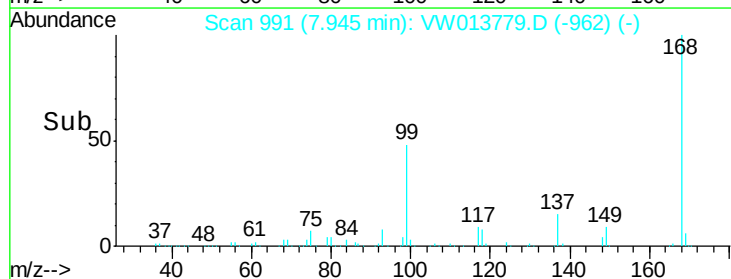
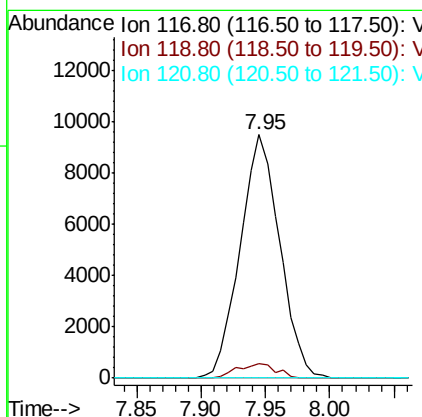
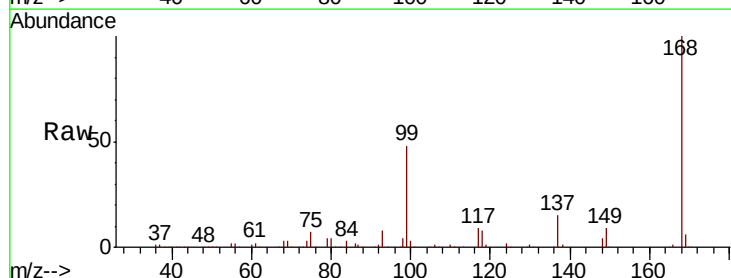
Instrument :
MSVOA_W
ClientSampleId :
TP-1

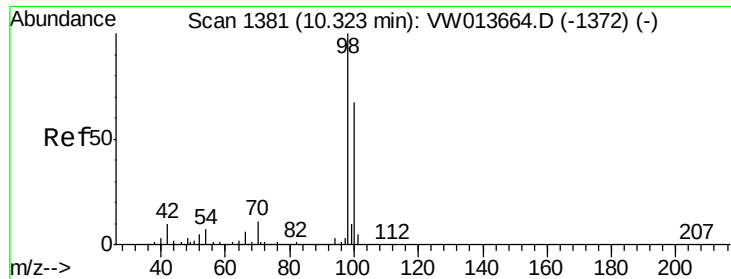
Tot Ion: 43 Resp: 4061
Ion Ratio Lower Upper
43 100
61 14.4 11.7 17.5
70 0.0 8.8 13.2#



#38
Carbon Tetrachloride
Concen: 6.989 ug/l
RT: 7.95 min Scan# 991
Delta R.T. -0.12 min
Lab File: VW013779.D
Acq: 28 Oct 2019 20:43

Tgt Ion: 117 Resp: 20188
Ion Ratio Lower Upper
117 100
119 5.9 79.0 118.4#
121 0.0 24.5 36.7#

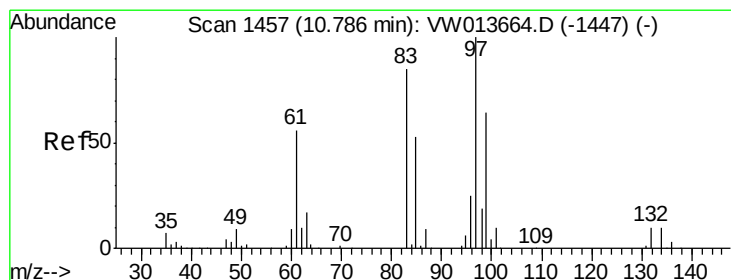
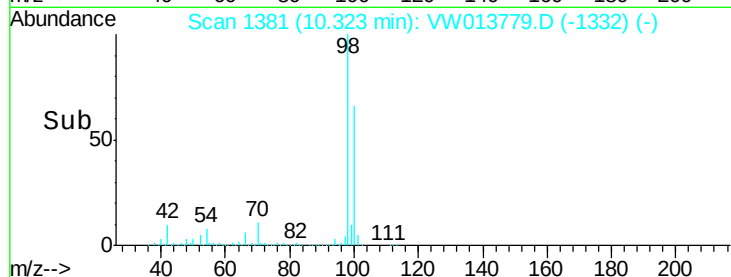
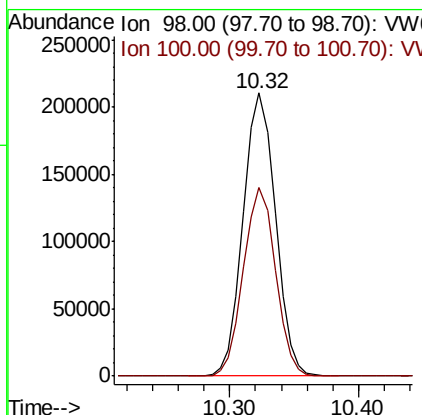
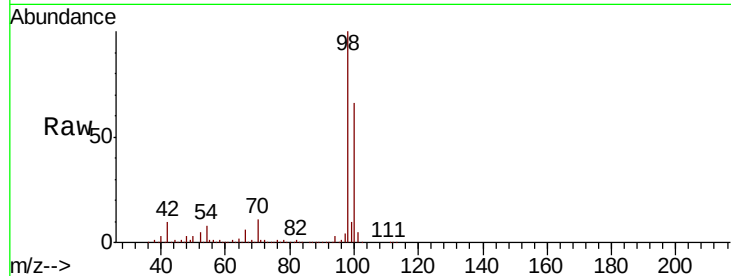




#50
Toluene-d8
Concen: 47.006 ug/l
RT: 10.32 min Scan# 1381
Delta R.T. -0.00 min
Lab File: VW013779.D
Acq: 28 Oct 2019 20:43

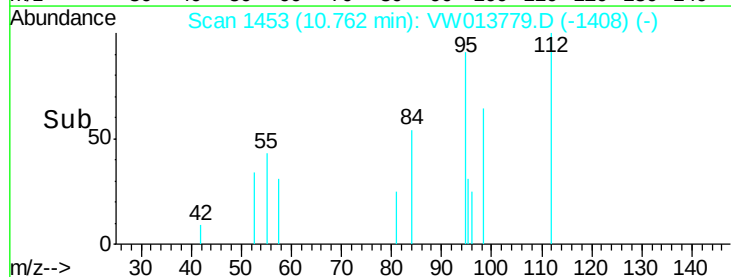
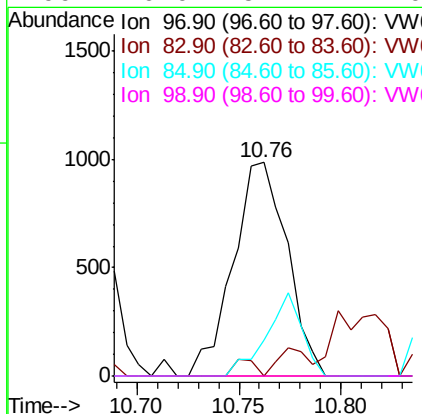
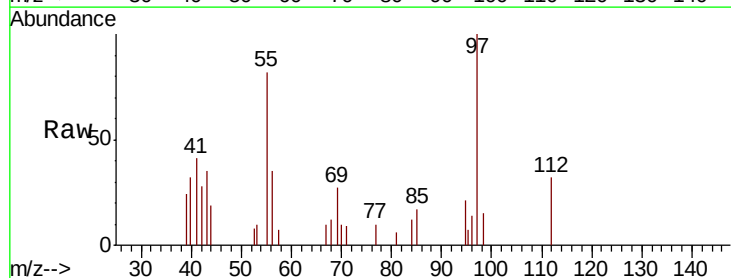
Instrument :
MSVOA_W
ClientSampleId :
TP-1

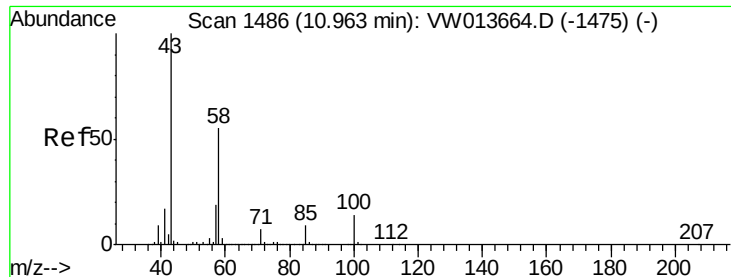
Tot Ion: 98 Resp: 366578
Ion Ratio Lower Upper
98 100
100 66.2 53.4 80.0



#55
1,1,2-Trichloroethane
Concen: 1.157 ug/l
RT: 10.76 min Scan# 1453
Delta R.T. -0.02 min
Lab File: VW013779.D
Acq: 28 Oct 2019 20:43

Tgt Ion: 97 Resp: 1815
Ion Ratio Lower Upper
97 100
83 0.0 67.8 101.8#
85 16.6 42.1 63.1#
99 0.0 51.4 77.0#

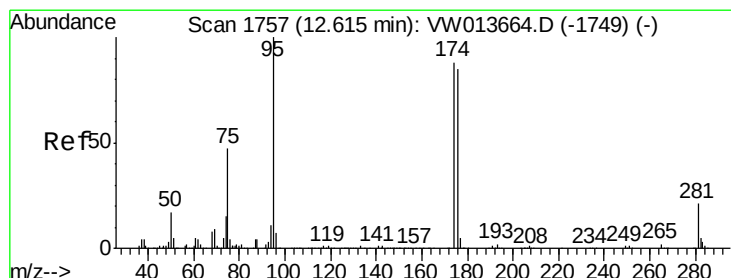
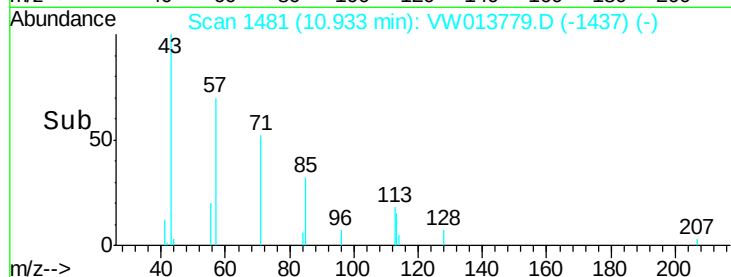
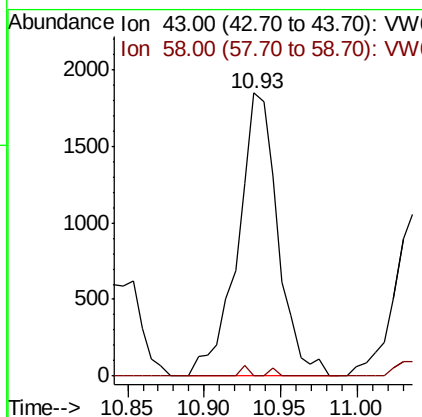
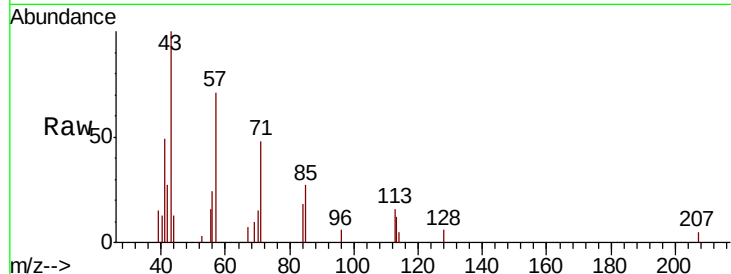




#59
2-Hexanone
Concen: 4.168 ug/l
RT: 10.93 min Scan# 1481
Delta R.T. -0.03 min
Lab File: VW013779.D
Acq: 28 Oct 2019 20:43

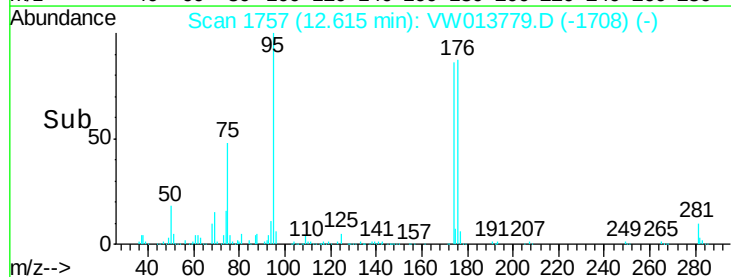
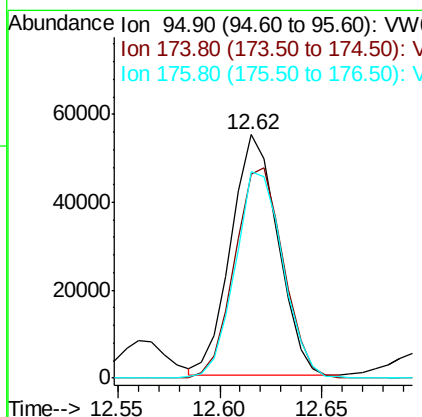
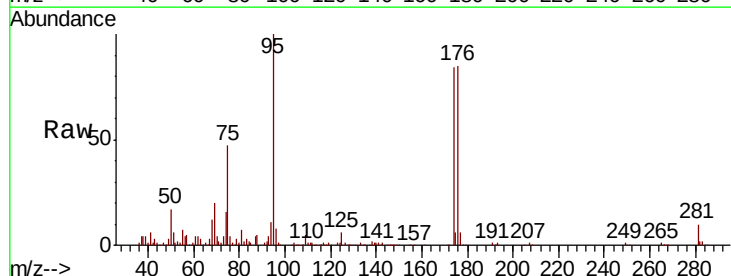
Instrument :
MSVOA_W
ClientSampled :
TP-1

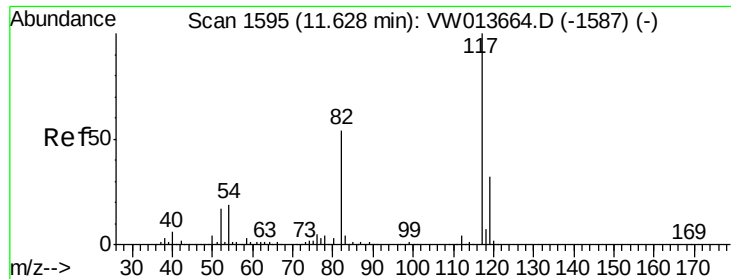
Tot Ion: 43 Resp: 3356
Ion Ratio Lower Upper
43 100
58 0.7 27.9 83.7#



#62
4-Bromofluorobenzene
Concen: 33.258 ug/l
RT: 12.62 min Scan# 1757
Delta R.T. -0.00 min
Lab File: VW013779.D
Acq: 28 Oct 2019 20:43

Tgt Ion: 95 Resp: 87821
Ion Ratio Lower Upper
95 100
174 90.0 0.0 183.6
176 87.2 0.0 178.0

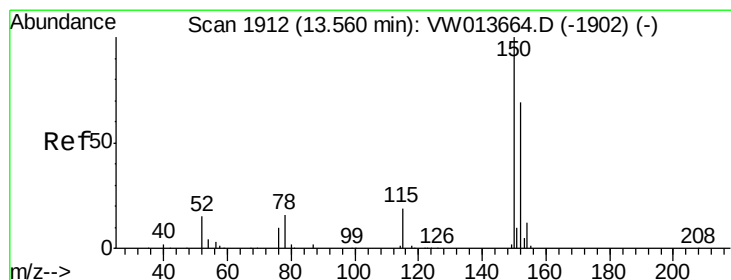
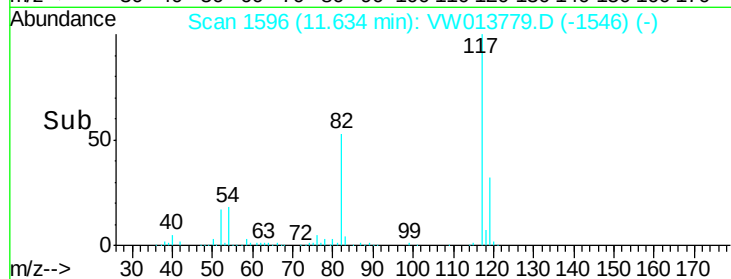
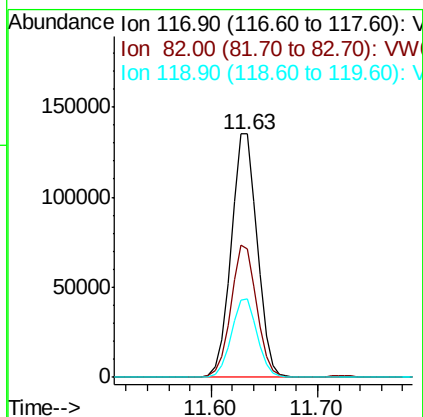
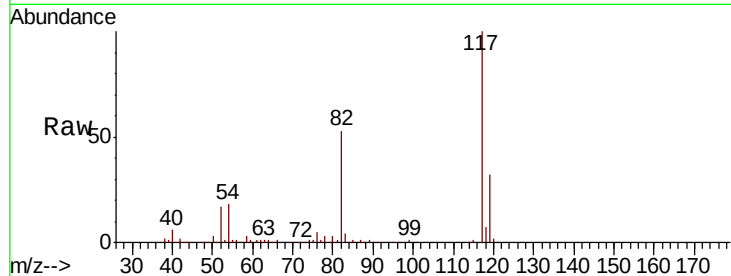




#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.63 min Scan# 1596
Delta R.T. 0.01 min
Lab File: VW013779.D
Acq: 28 Oct 2019 20:43

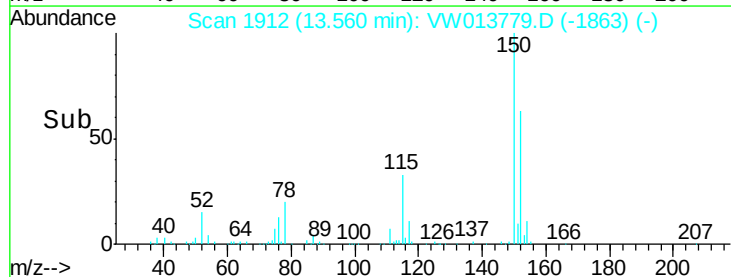
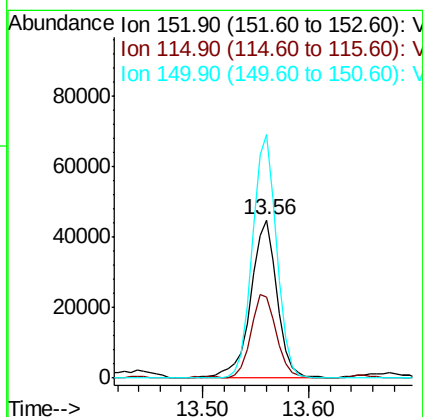
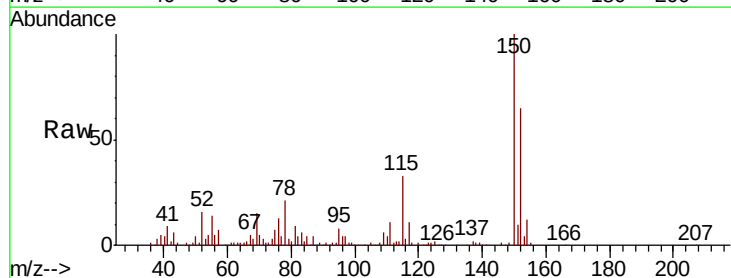
Instrument :
MSVOA_W
ClientSampleId :
TP-1

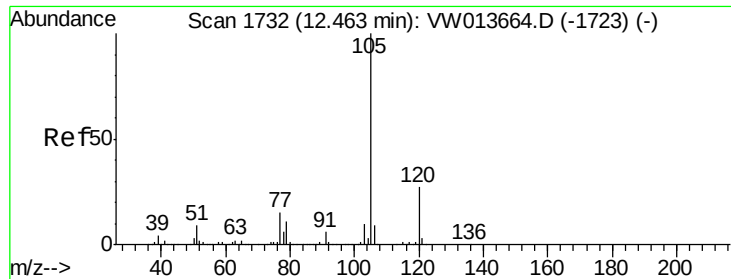
Tot Ion:117 Resp: 232698
Ion Ratio Lower Upper
117 100
82 52.8 43.6 65.4
119 32.1 25.4 38.2



#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 13.56 min Scan# 1912
Delta R.T. -0.00 min
Lab File: VW013779.D
Acq: 28 Oct 2019 20:43

Tgt Ion:152 Resp: 77226
Ion Ratio Lower Upper
152 100
115 51.4 27.4 82.2
150 142.0 0.0 345.4





#73

Isopropylbenzene

Concen: 1.213 ug/l

RT: 12.46 min Scan# 1732

Delta R.T. -0.00 min

Lab File: VW013779.D

Acq: 28 Oct 2019 20:43

Instrument :

MSVOA_W

ClientSampleId :

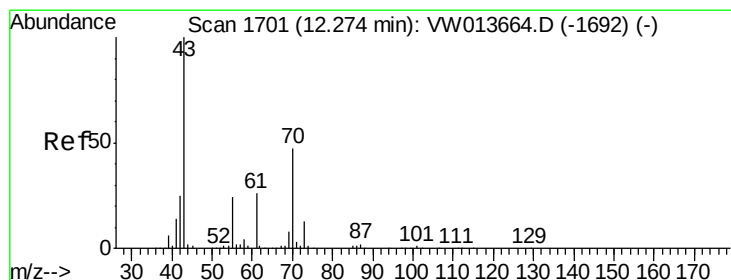
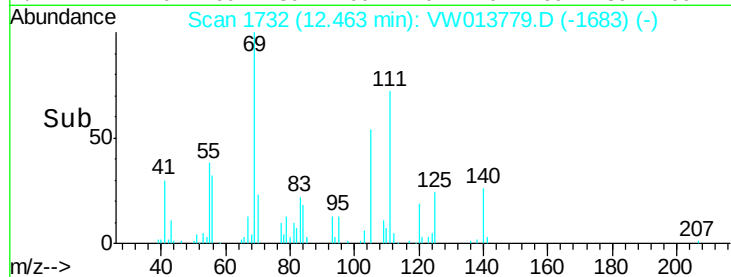
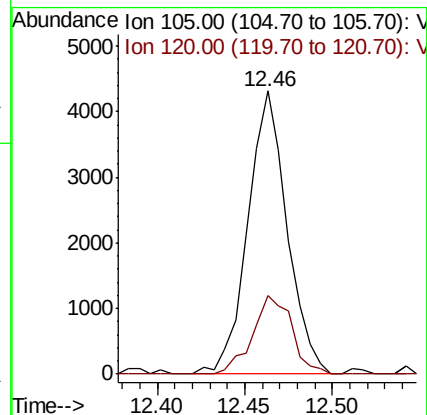
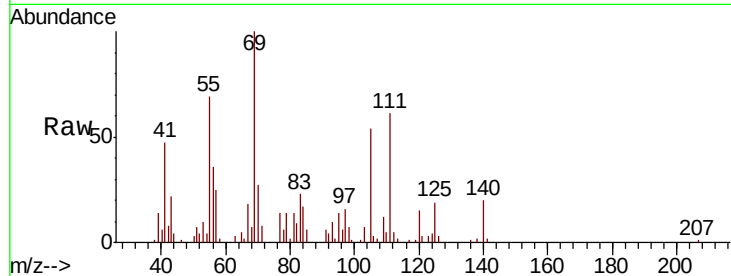
TP-1

Tot Ion:105 Resp: 6726

Ion Ratio Lower Upper

105 100

120 27.8 13.5 40.4



#74

N-ethyl acetate

Concen: 11.093 ug/l

RT: 12.25 min Scan# 1697

Delta R.T. -0.02 min

Lab File: VW013779.D

Acq: 28 Oct 2019 20:43

Tgt Ion: 43 Resp: 11901

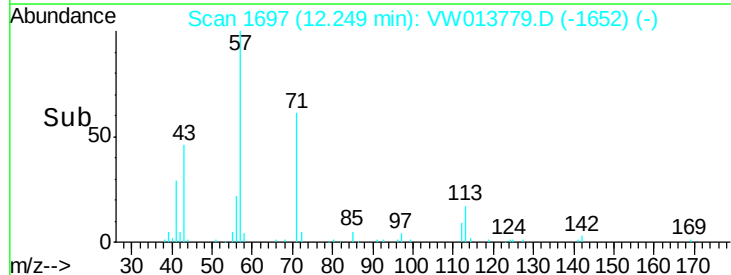
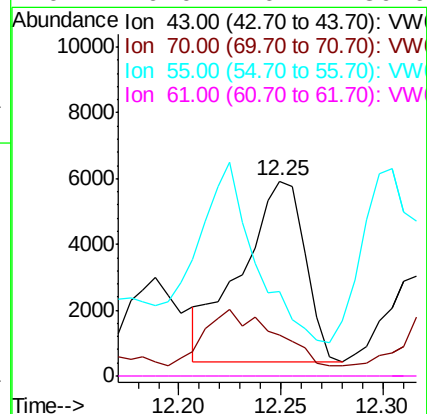
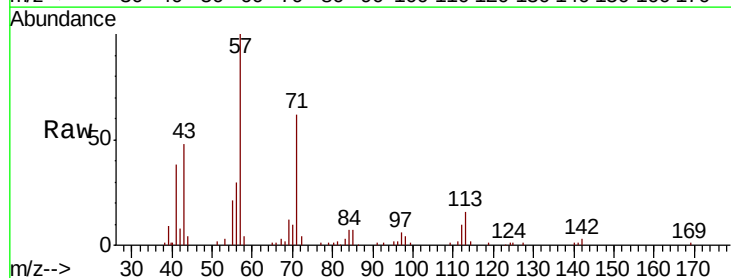
Ion Ratio Lower Upper

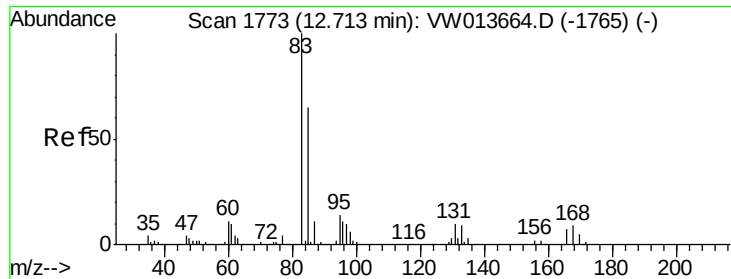
43 100

70 0.0 36.6 55.0#

55 0.0 20.3 30.5#

61 0.0 20.4 30.6#

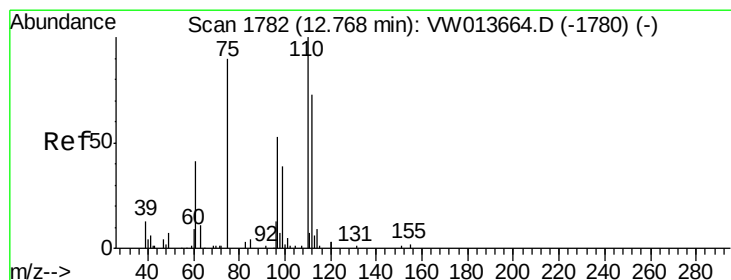
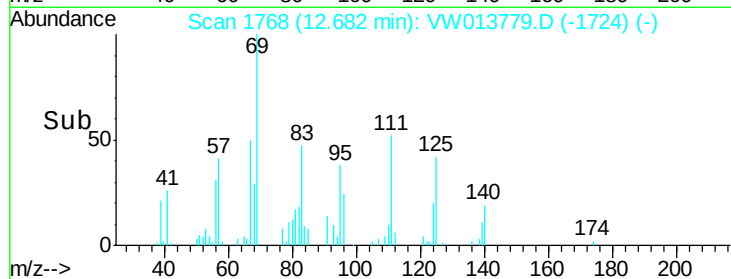
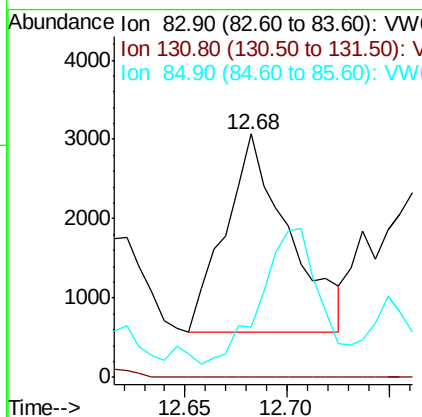
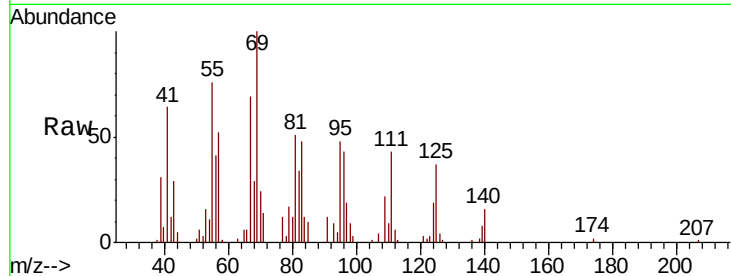




#75
 1,1,2,2-Tetrachloroethane
 Concen: 6.166 ug/l
 RT: 12.68 min Scan# 1768
 Delta R.T. -0.03 min
 Lab File: VW013779.D
 Acq: 28 Oct 2019 20:43

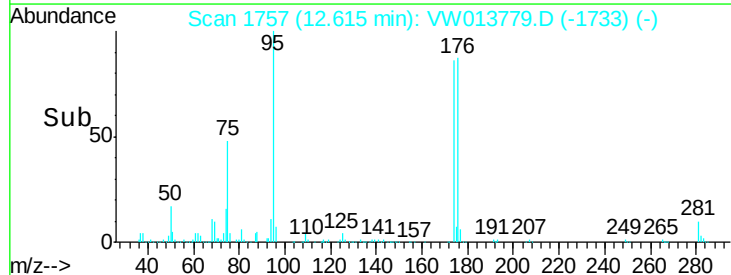
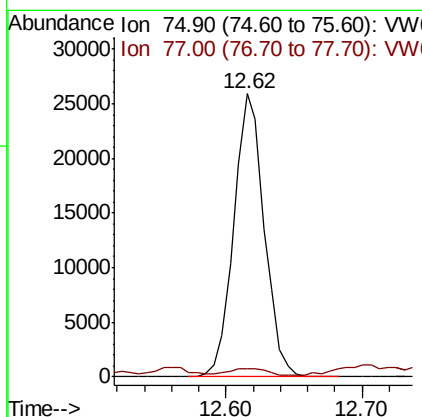
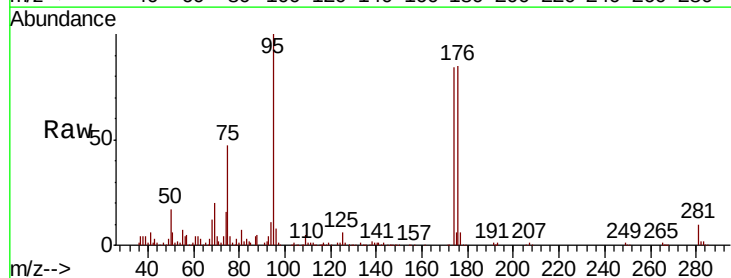
Instrument :
 MSVOA_W
 ClientSampleId :
 TP-1

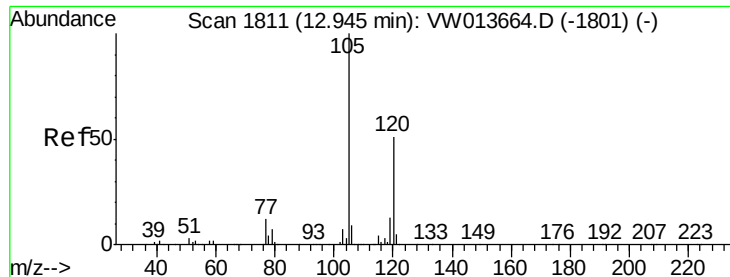
Tot Ion: 83 Resp: 5396
 Ion Ratio Lower Upper
 83 100
 131 0.0 5.7 17.1#
 85 0.0 32.5 97.4#



#76
 1,2,3-Trichloropropane
 Concen: 72.493 ug/l
 RT: 12.62 min Scan# 1757
 Delta R.T. -0.15 min
 Lab File: VW013779.D
 Acq: 28 Oct 2019 20:43

Tgt Ion: 75 Resp: 40204
 Ion Ratio Lower Upper
 75 100
 77 3.2 0.0 0.0#

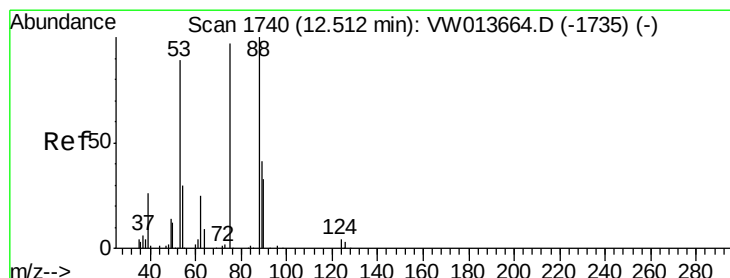
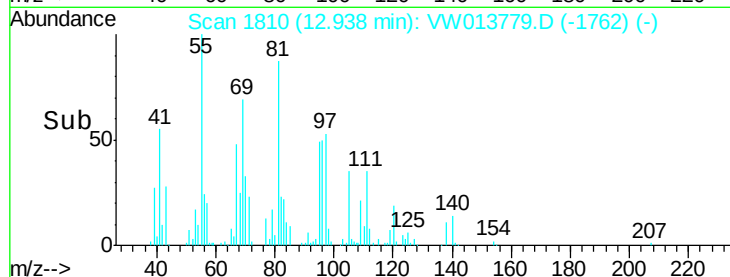
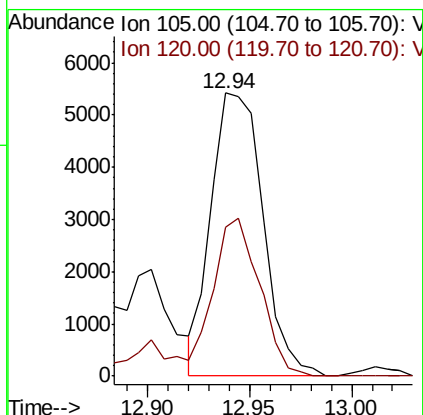
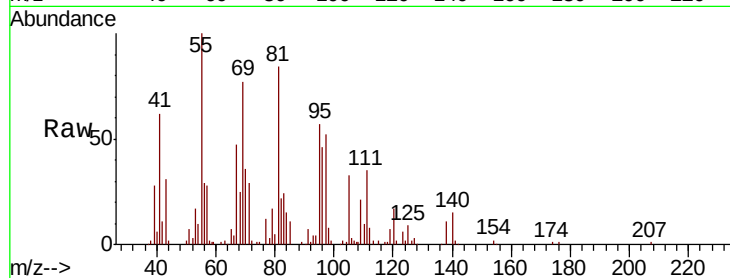




#80
 1,3,5-Trimethylbenzene
 Concen: 2.043 ug/l
 RT: 12.94 min Scan# 1810
 Delta R.T. -0.01 min
 Lab File: VW013779.D
 Acq: 28 Oct 2019 20:43

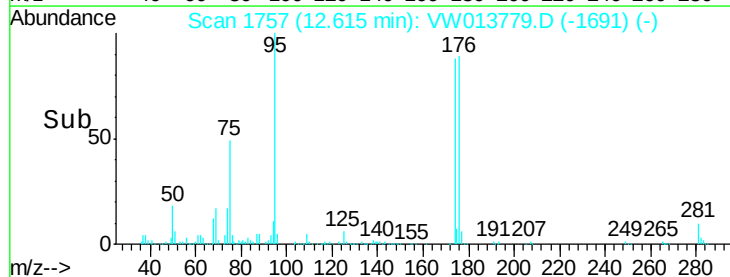
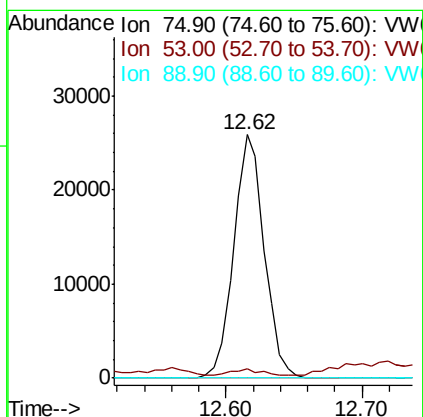
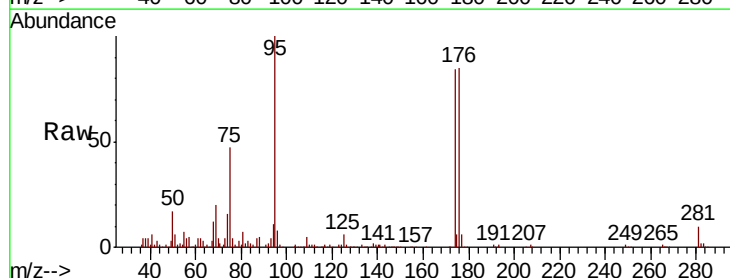
Instrument :
 MSVOA_W
 ClientSampleId :
 TP-1

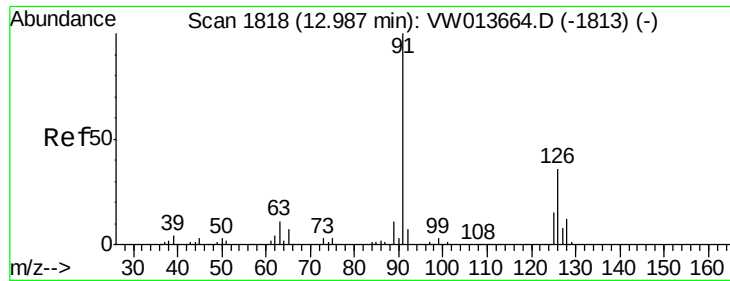
Tot Ion:105 Resp: 9563
 Ion Ratio Lower Upper
 105 100
 120 49.8 25.1 75.3



#81
 trans-1,4-Dichloro-2-butene
 Concen: 137.002 ug/l
 RT: 12.62 min Scan# 1757
 Delta R.T. 0.10 min
 Lab File: VW013779.D
 Acq: 28 Oct 2019 20:43

Tgt Ion: 75 Resp: 40204
 Ion Ratio Lower Upper
 75 100
 53 2.6 71.7 107.5#
 89 0.1 35.8 53.8#





#82

4-Chlorotoluene

Concen: 1.911 ug/l

RT: 13.21 min Scan# 1854

Delta R.T. 0.22 min

Lab File: VW013779.D

Acq: 28 Oct 2019 20:43

Instrument :

MSVOA_W

ClientSampled :

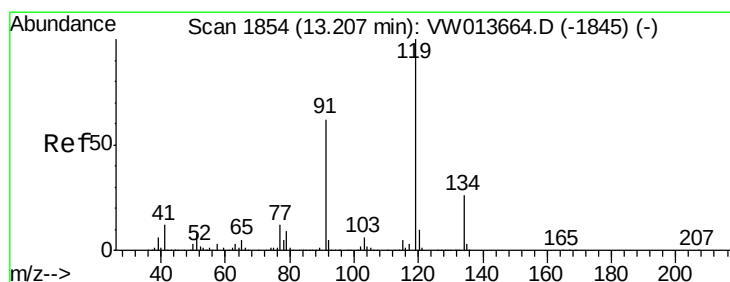
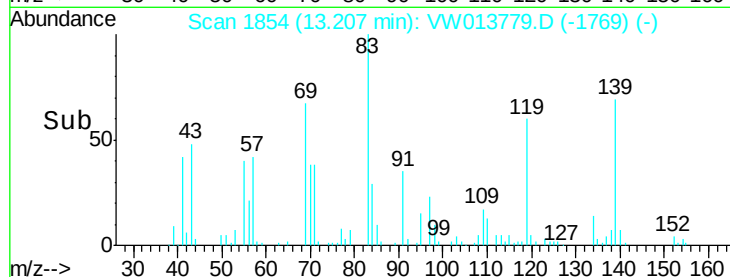
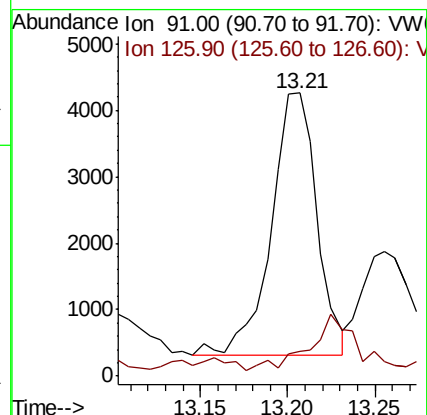
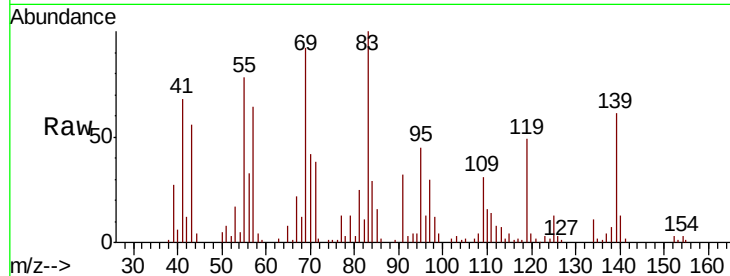
TP-1

Tot Ion: 91 Resp: 7236

Ion Ratio Lower Upper

91 100

126 20.8 17.2 51.5



#83

tert-Butylbenzene

Concen: 2.568 ug/l

RT: 13.21 min Scan# 1854

Delta R.T. -0.00 min

Lab File: VW013779.D

Acq: 28 Oct 2019 20:43

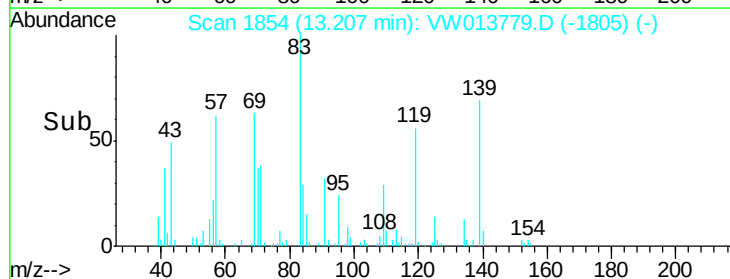
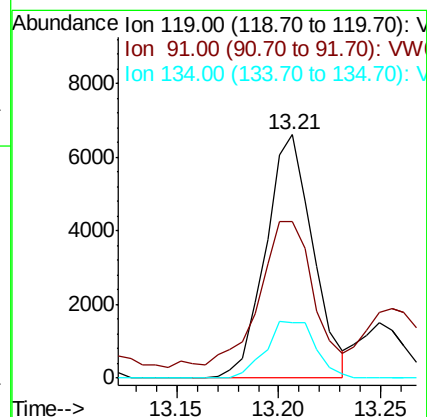
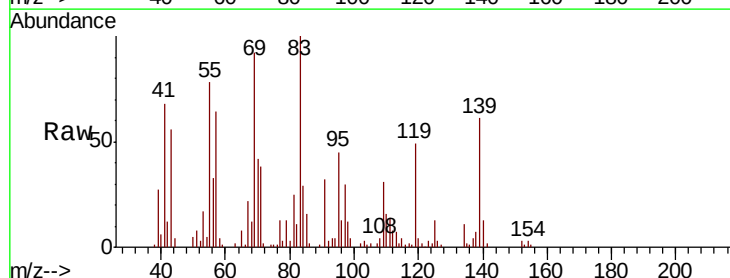
Tgt Ion: 119 Resp: 10670

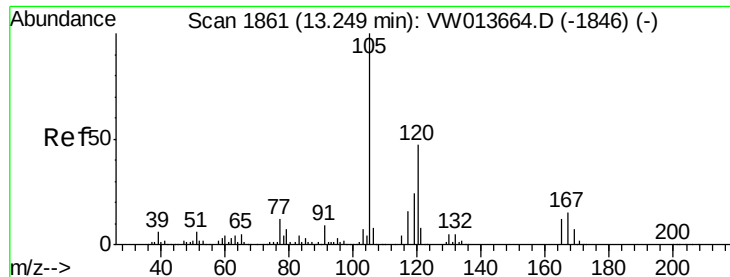
Ion Ratio Lower Upper

119 100

91 67.8 30.4 91.3

134 24.6 13.6 40.8

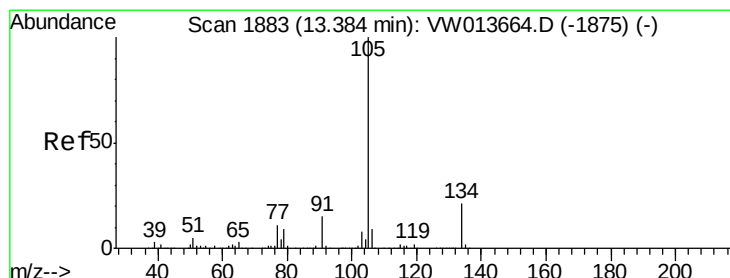
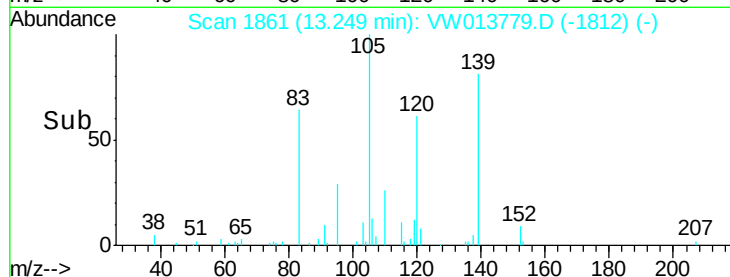
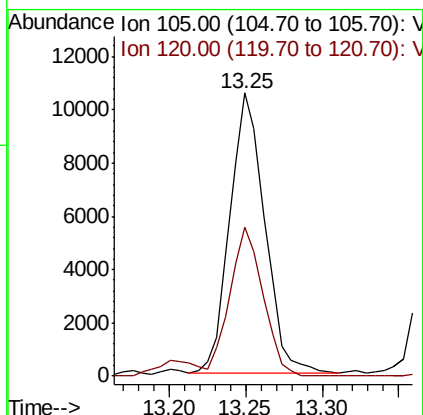
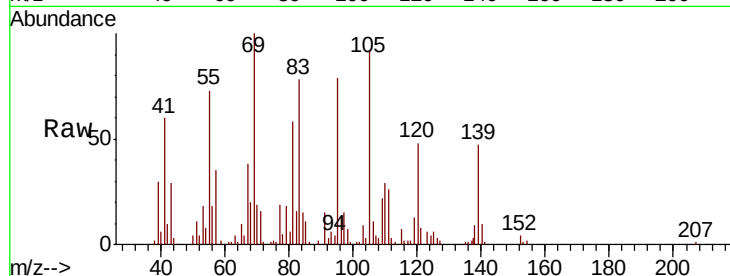




#84
1,2,4-Trimethylbenzene
Concen: 3.578 ug/l
RT: 13.25 min Scan# 1861
Delta R.T. -0.00 min
Lab File: VW013779.D
Acq: 28 Oct 2019 20:43

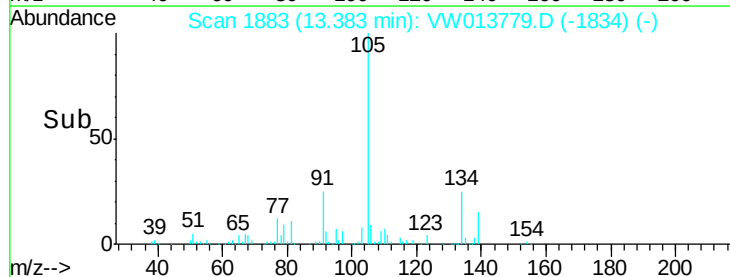
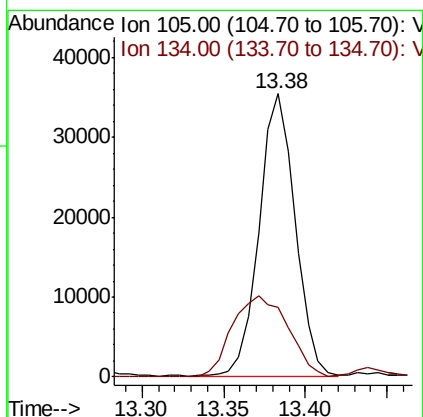
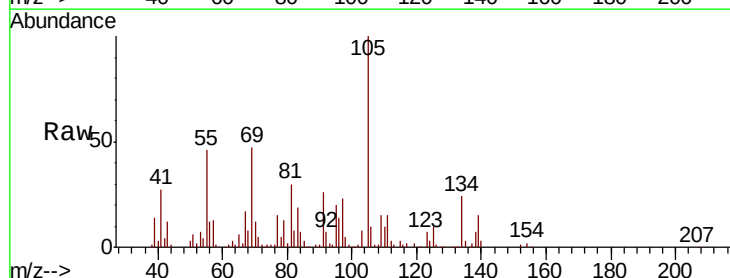
Instrument :
MSVOA_W
ClientSampleId :
TP-1

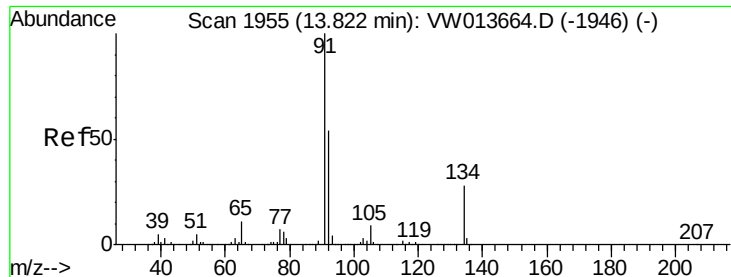
Tot Ion:105 Resp: 16525
Ion Ratio Lower Upper
105 100
120 50.6 23.5 70.5



#85
sec-Butylbenzene
Concen: 9.461 ug/l
RT: 13.38 min Scan# 1883
Delta R.T. -0.00 min
Lab File: VW013779.D
Acq: 28 Oct 2019 20:43

Tgt Ion:105 Resp: 53765
Ion Ratio Lower Upper
105 100
134 44.6 10.5 31.5#

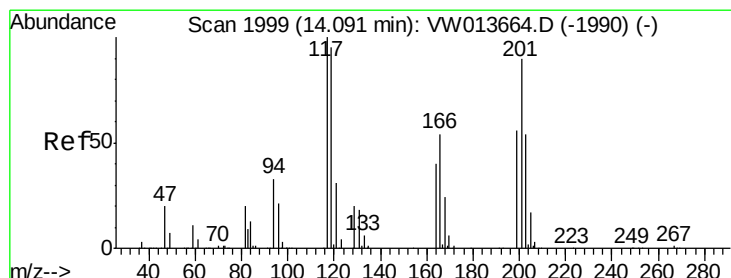
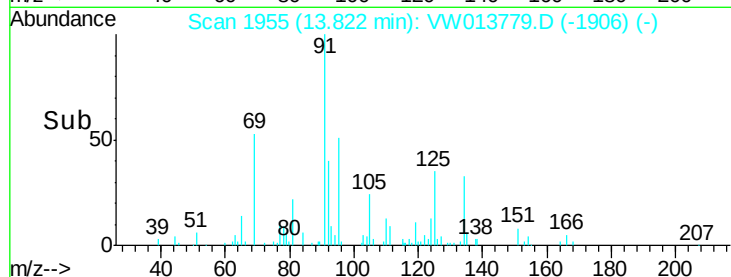
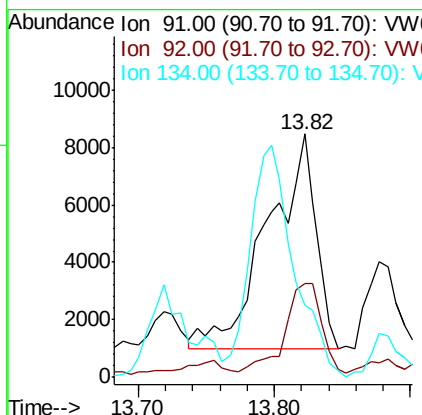
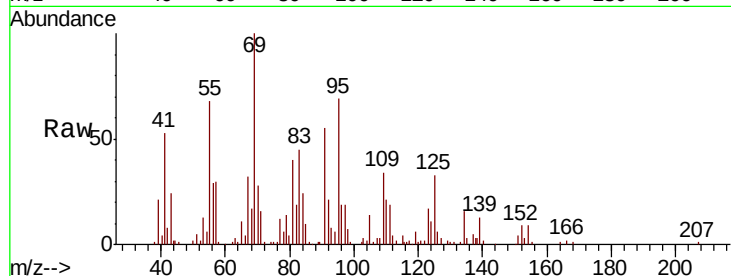




#89
n-Butylbenzene
Concen: 3.861 ug/l
RT: 13.82 min Scan# 1955
Delta R.T. -0.00 min
Lab File: VW013779.D
Acq: 28 Oct 2019 20:43

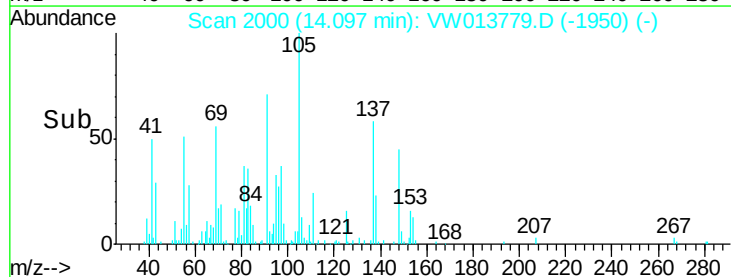
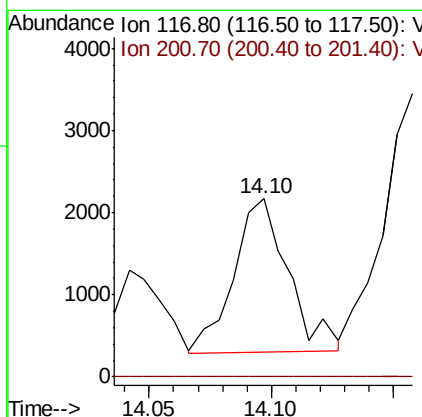
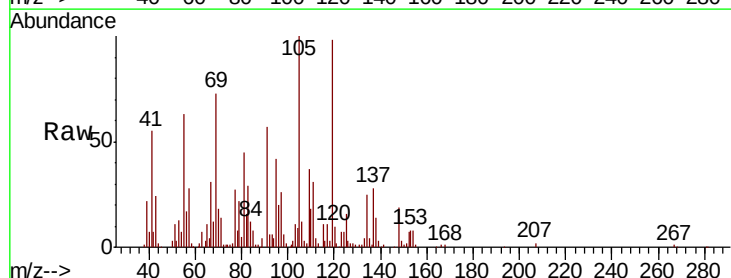
Instrument :
MSVOA_W
ClientSampled :
TP-1

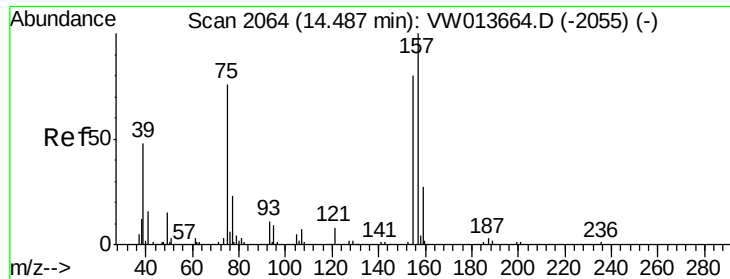
Tot Ion: 91 Resp: 18449
Ion Ratio Lower Upper
91 100
92 31.7 27.5 82.4
134 0.0 14.0 41.9#



#90
Hexachloroethane
Concen: 3.125 ug/l
RT: 14.10 min Scan# 2000
Delta R.T. 0.01 min
Lab File: VW013779.D
Acq: 28 Oct 2019 20:43

Tgt Ion: 117 Resp: 2875
Ion Ratio Lower Upper
117 100
201 0.0 46.1 138.2#





#92

1,2-Dibromo-3-Chloropropane

Concen: 1.368 ug/l

RT: 14.75 min Scan# 2107

Delta R.T. 0.26 min

Lab File: VW013779.D

Acq: 28 Oct 2019 20:43

Instrument :

MSVOA_W

ClientSampleId :

TP-1

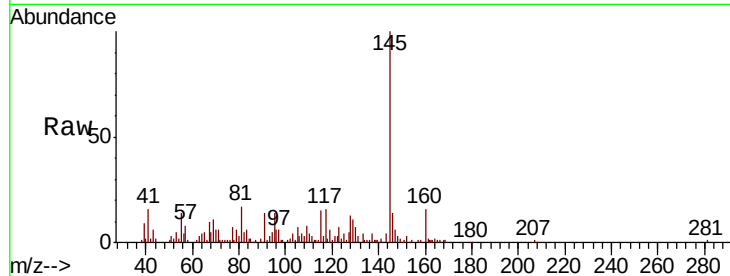
Tot Ion: 75 Resp: 181

Ion Ratio Lower Upper

75 100

155 122.1 51.9 155.7

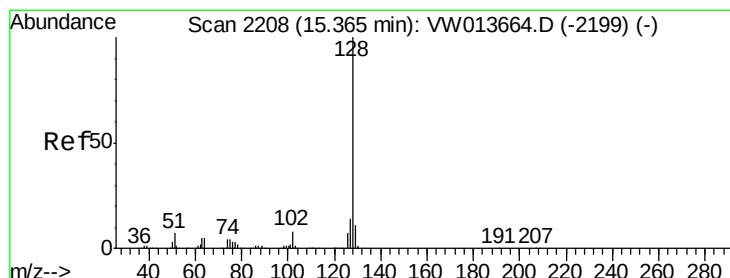
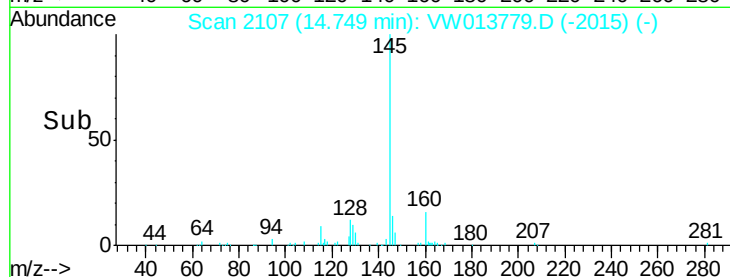
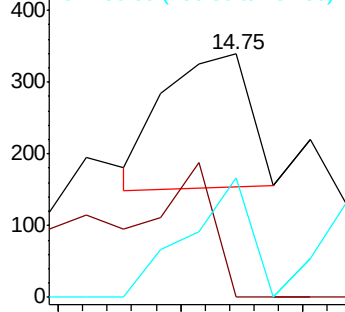
157 65.7 64.8 194.3



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: 1.530 ug/l

RT: 15.36 min Scan# 2208

Delta R.T. -0.00 min

Lab File: VW013779.D

Acq: 28 Oct 2019 20:43

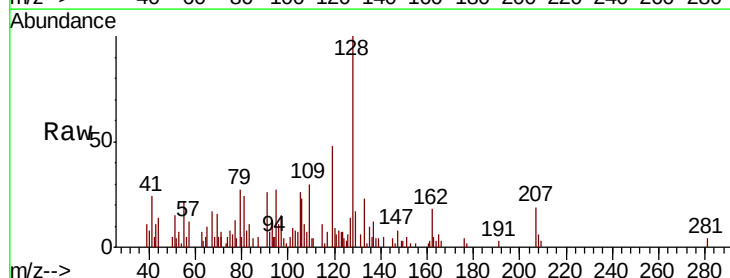
Tgt Ion: 128 Resp: 3885

Ion Ratio Lower Upper

128 100

127 21.8 10.6 15.8#

129 0.0 8.7 13.1#



Abundance Ion 128.00 (127.70 to 128.70): V

Ion 127.00 (126.70 to 127.70): V

Ion 129.00 (128.70 to 129.70): V

