

Data Path : Z:\VOASRV\HPCHEM1\MSVOA W\DATA\WV100719\
 Data File : VW013470.D
 Acq On : 07 Oct 2019 18:12
 Operator : SY/VA
 Sample : K5213-02
 Misc : 5.12G/5ML/MSVOA W/SOIL
 ALS Vial : 20 Sample Multiplier: 1

Instrument :
 MSVOA_W
 ClientSampleId :

Quant Time: Oct 08 10:41:30 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_W\METHOD\82W100119S.M
 Quant Title : SW846 8260
 QLast Update : Wed Oct 02 11:49:57 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	7.95	168	14008	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	8.84	114	19182	50.00	ug/l	0.00
63) Chlorobenzene-d5	11.63	117	17778	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.55	152	6244	50.00	ug/l	0.00

System Monitoring Compounds

33) 1,2-Dichloroethane-d4	8.31	65	5539	52.96	ug/l	0.00
Spiked Amount	50.000		Recovery	=	105.92%	
35) Dibromofluoromethane	7.88	113	5534	54.98	ug/l	0.00
Spiked Amount	50.000		Recovery	=	109.96%	
50) Toluene-d8	10.32	98	21572	51.65	ug/l	0.00
Spiked Amount	50.000		Recovery	=	103.30%	
62) 4-Bromofluorobenzene	12.63	95	65608	470.37	ug/l	0.01
Spiked Amount	50.000		Recovery	=	940.74%	

Target Compounds

						Qvalue
3) Chloromethane	2.21	50	119	1.331	ug/l #	42
4) Vinyl Chloride	2.36	62	313	2.467	ug/l #	77
11) Tert butyl alcohol	5.12	59	808	75.169	ug/l #	90
16) Acetone	4.13	43	1915	59.732	ug/l	93
17) Carbon Disulfide	4.39	76	360	1.001	ug/l #	76
20) Methylene Chloride	4.91	84	1012	5.985	ug/l #	85
25) 2-Butanone	7.18	43	48	1.170	ug/l #	51
26) 2,2-Dichloropropane	7.37	77	572	2.840	ug/l	87
27) cis-1,2-Dichloroethene	7.16	96	2810	19.549	ug/l #	42
29) Tetrahydrofuran	7.54	42	50	11.708	ug/l #	1
31) Cyclohexane	7.95	56	846	3.535	ug/l #	74
32) 1,1,1-Trichloroethane	7.88	97	198	1.149	ug/l #	24
37) Ethyl Acetate	7.27	43	206	2.762	ug/l #	27
38) Carbon Tetrachloride	8.04	117	338	2.190	ug/l #	51
39) Methylcyclohexane	9.39	83	704	3.000	ug/l	95
41) Methacrylonitrile	7.48	41	203	4.282	ug/l #	35
43) Isopropyl Acetate	8.41	43	203	1.372	ug/l #	50
44) Trichloroethene	9.09	130	1696	11.942	ug/l	62
45) 1,2-Dichloropropane	9.40	63	187	1.544	ug/l #	1
46) Dibromomethane	9.48	93	434	7.196	ug/l #	83
47) Bromodichloromethane	9.64	83	1020	6.870	ug/l #	59
48) Methyl methacrylate	9.43	41	407	5.724	ug/l #	26
51) 4-Methyl-2-Pentanone	10.13	43	379	4.874	ug/l	88
55) 1,1,2-Trichloroethane	10.79	97	1540	17.116	ug/l #	41
56) Ethyl methacrylate	10.63	69	1210	9.991	ug/l #	36
57) 1,3-Dichloropropane	10.85	76	751	4.801	ug/l	92
58) 2-Chloroethyl Vinyl ether	9.92	63	101	2.030	ug/l #	1
59) 2-Hexanone	10.90	43	1258	23.342	ug/l	71
60) Dibromochloromethane	11.35	129	1381	13.416	ug/l	65
61) 1,2-Dibromoethane	11.02	107	482	5.544	ug/l	95
64) Tetrachloroethene	10.86	164	15116	111.761	ug/l	95
66) 1,1,1,2-Tetrachloroethane	11.78	131	1049	8.456	ug/l #	1
67) Ethyl Benzene	11.74	91	1264	1.936	ug/l #	44
68) m/p-Xylenes	11.84	106	480	1.905	ug/l #	1

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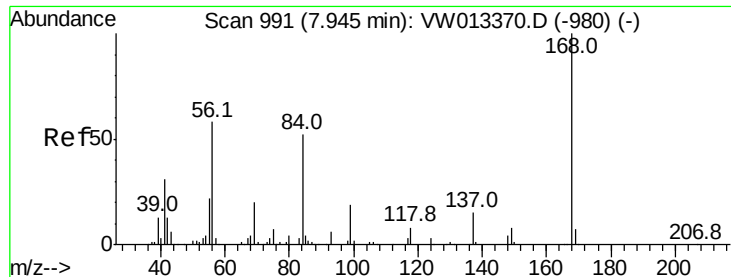
Instrument :
 MSVOA_W
 ClientSampleId :

Quant Time: Oct 08 10:41:30 2019
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Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)

69) o-Xylene	12.23	106	671	2.880	ug/l	48
70) Styrene	12.14	104	3815	9.580	ug/l #	27
71) Bromoform	12.30	173	9394	139.675	ug/l #	29
73) Isopropylbenzene	12.64	105	1676	3.670	ug/l	79
74) N-amyl acetate	12.29	43	1230	12.654	ug/l #	35
75) 1,1,2,2-Tetrachloroethane	12.62	83	73117	945.819	ug/l #	27
76) 1,2,3-Trichloropropane	12.79	75	511	9.208	ug/l #	100
77) Bromobenzene	12.85	156	158207	1442.571	ug/l #	1
78) n-propylbenzene	12.77	91	2838	5.402	ug/l	80
79) 2-Chlorotoluene	12.77	91	2838	9.726	ug/l	96
80) 1,3,5-Trimethylbenzene	12.94	105	1051	2.770	ug/l #	27
81) trans-1,4-Dichloro-2-buten	12.48	75	421	18.978	ug/l #	20
82) 4-Chlorotoluene	12.91	91	1011	3.307	ug/l #	40
83) tert-Butylbenzene	13.18	119	23153	69.865	ug/l #	31
84) 1,2,4-Trimethylbenzene	13.32	105	2041	5.411	ug/l	80
85) sec-Butylbenzene	13.32	105	2013	4.406	ug/l	96
86) p-Isopropyltoluene	13.47	119	5075	11.985	ug/l #	51
87) 1,3-Dichlorobenzene	13.46	146	2185	10.590	ug/l #	65
88) 1,4-Dichlorobenzene	13.58	146	208	1.007	ug/l #	1
89) n-Butylbenzene	13.93	91	1188	3.112	ug/l	87
90) Hexachloroethane	14.33	117	534	7.633	ug/l	61
91) 1,2-Dichlorobenzene	13.85	146	338	1.853	ug/l #	25
92) 1,2-Dibromo-3-Chloropropan	14.66	75	328	28.366	ug/l	77
93) 1,2,4-Trichlorobenzene	15.12	180	302	2.307	ug/l #	1
95) Naphthalene	15.36	128	268	1.214	ug/l #	69

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



#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 7.95 min Scan# 992

Delta R.T. 0.01 min

Lab File: VW013470.D

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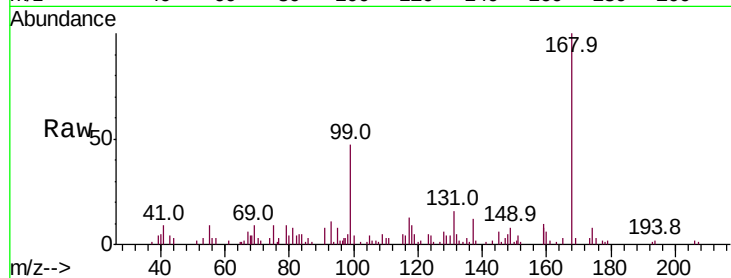
Instrument :
MSVOA_W
ClientSampleId :

Tot Ion:168 Resp: 14008

Ion Ratio Lower Upper

168 100

99 46.7 40.2 60.4



Abundance Ion 167.90 (167.60 to 168.60): VW

Ion 98.90 (98.60 to 99.60): VW

7.95

6000

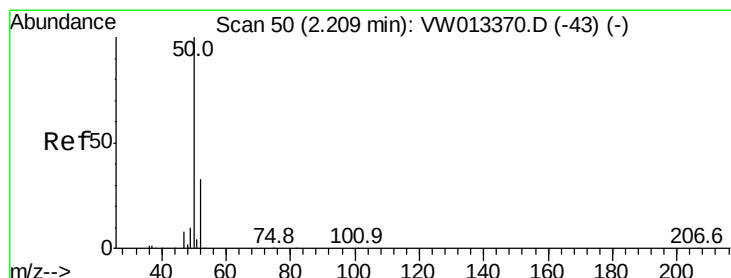
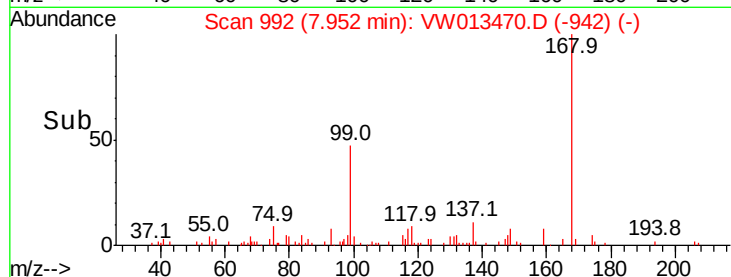
4000

2000

0

7.85 7.90 7.95 8.00 8.05

Time-->



#3

Chloromethane

Concen: 1.331 ug/l

RT: 2.21 min Scan# 51

Delta R.T. 0.01 min

Lab File: VW013470.D

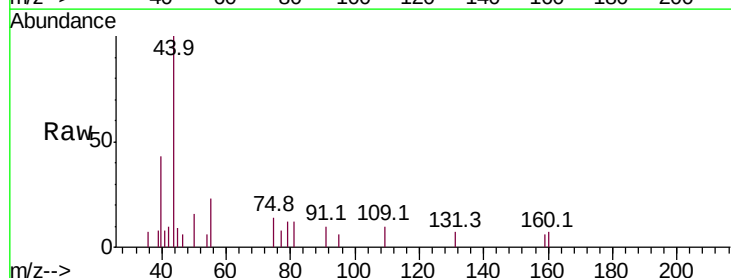
Acq: 07 Oct 2019 18:12

Tgt Ion: 50 Resp: 119

Ion Ratio Lower Upper

50 100

52 0.0 26.1 39.1#



Abundance Ion 49.90 (49.60 to 50.60): VW

Ion 51.90 (51.60 to 52.60): VW

2.21

150

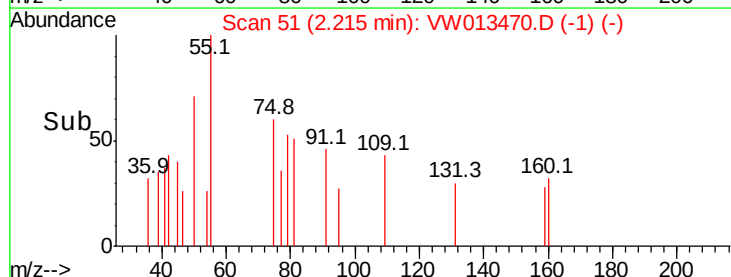
100

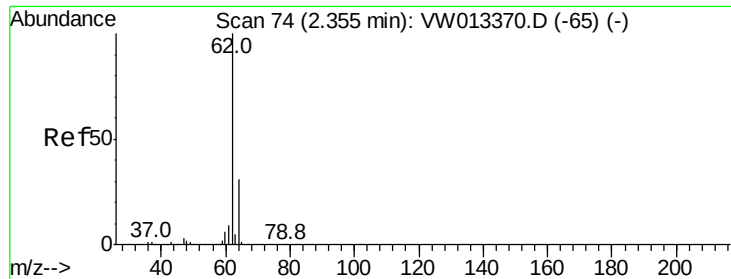
50

0

2.18 2.20 2.22 2.24

Time-->





#4

Vinyl Chloride

Concen: 2.467 ug/l

RT: 2.36 min Scan# 75

Delta R.T. 0.01 min

Lab File: VW013470.D

Acq: 07 Oct 2019 18:12

Instrument :

MSVOA_W

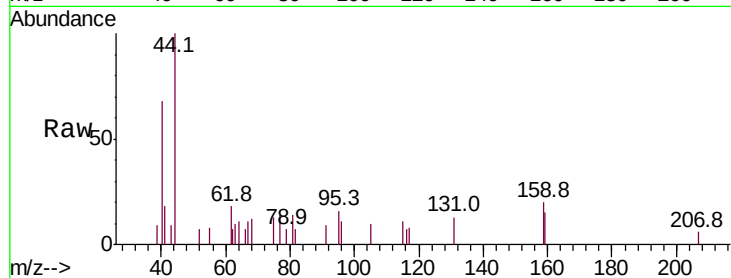
ClientSampled :

Tot Ion: 62 Resp: 313

Ion Ratio Lower Upper

62 100

64 44.4 25.3 37.9#

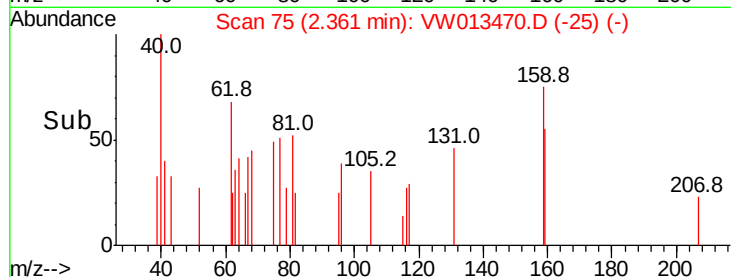


Abundance Ion 61.90 (61.60 to 62.60): VW

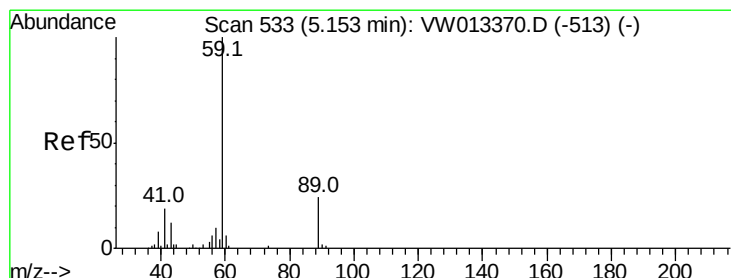
Ion 63.90 (63.60 to 64.60): VW

2.36

Time--> 2.30 2.35



Time--> 2.30 2.35



#11

Tert butyl alcohol

Concen: 75.169 ug/l

RT: 5.12 min Scan# 527

Delta R.T. -0.04 min

Lab File: VW013470.D

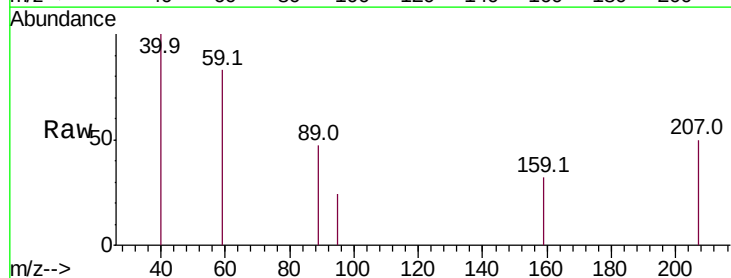
Acq: 07 Oct 2019 18:12

Tgt Ion: 59 Resp: 808

Ion Ratio Lower Upper

59 100

57 6.3 8.2 12.2#

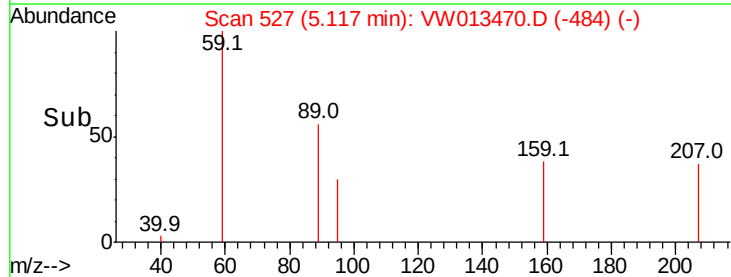


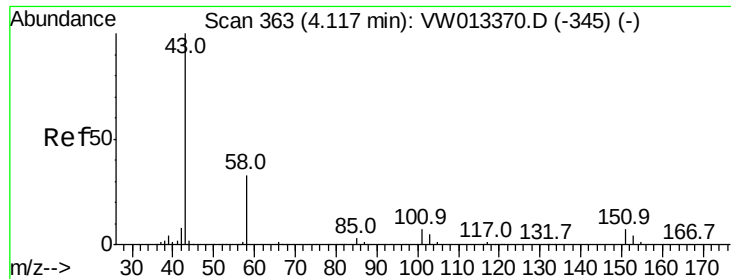
Abundance Ion 59.00 (58.70 to 59.70): VW

Ion 57.00 (56.70 to 57.70): VW

5.12

Time--> 5.05 5.10 5.15 5.20





#16

Acetone

Concen: 59.732 ug/l

RT: 4.13 min Scan# 365

Delta R.T. 0.01 min

Lab File: VW013470.D

Acq: 07 Oct 2019 18:12

Instrument :

MSVOA_W

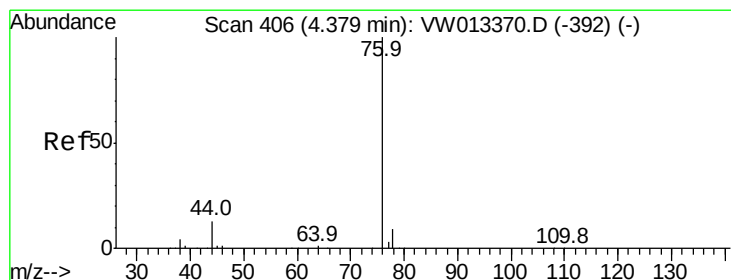
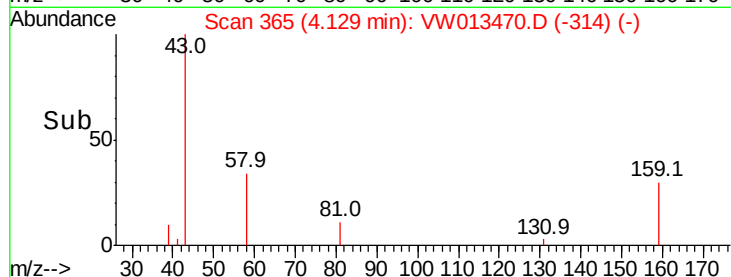
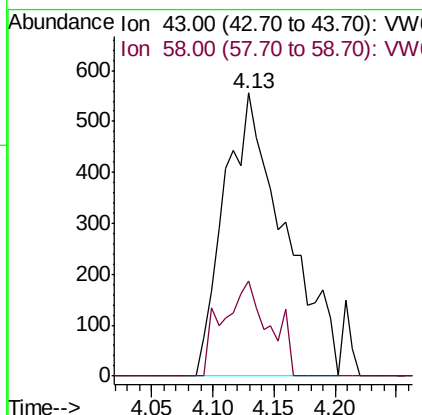
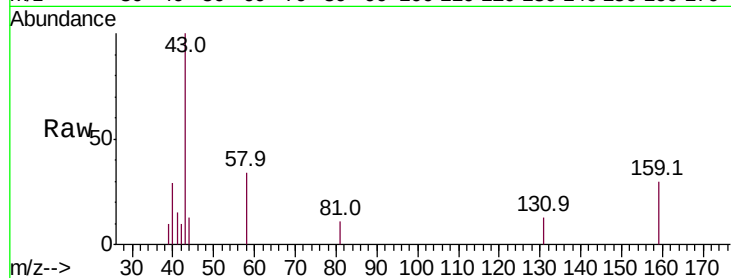
ClientSampled :

Tot Ion: 43 Resp: 1915

Ion Ratio Lower Upper

43 100

58 33.6 24.1 36.1



#17

Carbon Disulfide

Concen: 1.001 ug/l

RT: 4.39 min Scan# 407

Delta R.T. 0.01 min

Lab File: VW013470.D

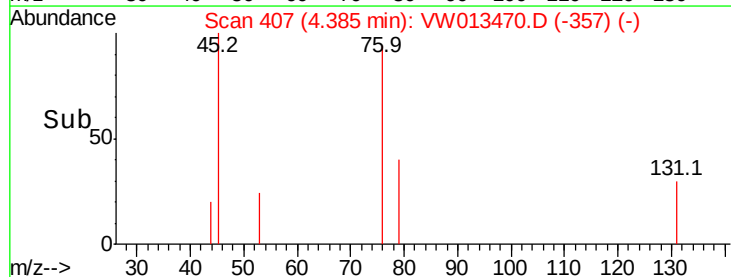
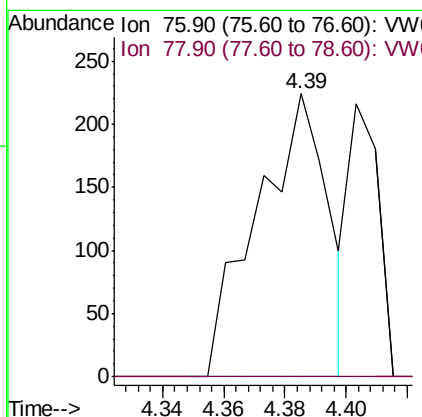
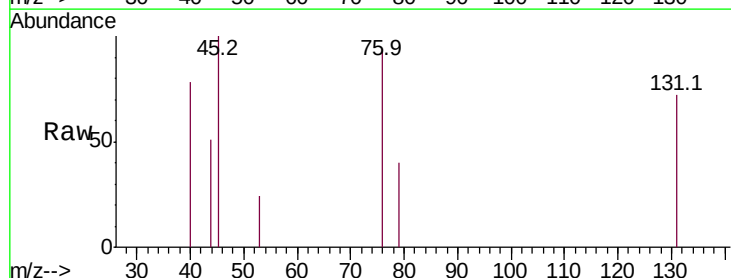
Acq: 07 Oct 2019 18:12

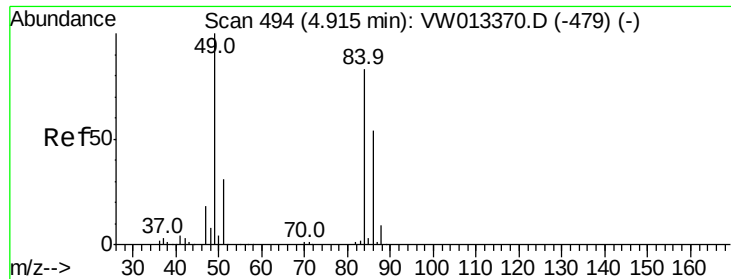
Tgt Ion: 76 Resp: 360

Ion Ratio Lower Upper

76 100

78 0.0 7.0 10.4#

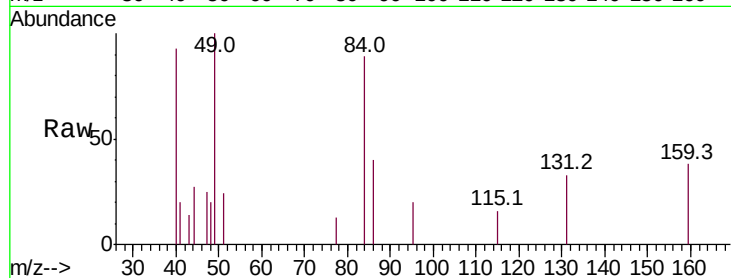




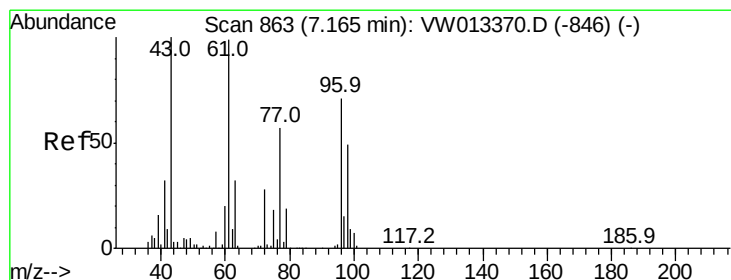
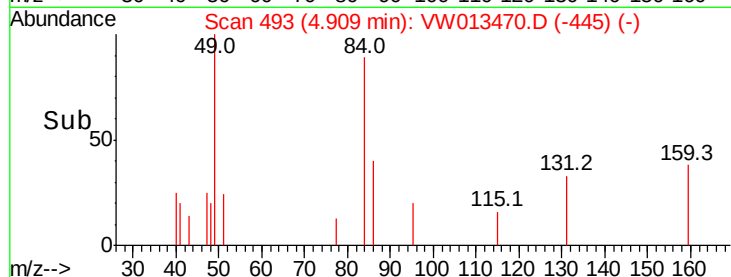
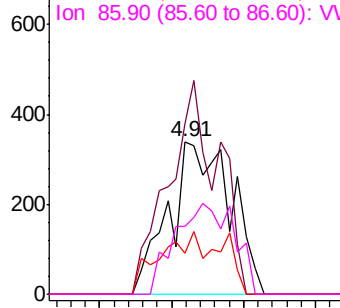
#20
Methylene Chloride
Concen: 5.985 ug/l
RT: 4.91 min Scan# 493
Delta R.T. -0.01 min
Lab File: VW013470.D
Acq: 07 Oct 2019 18:12

Instrument :
MSVOA_W
ClientSampleId :

Tot Ion: 84 Resp: 1012
Ion Ratio Lower Upper
84 100
49 111.8 97.6 146.4
51 26.5 30.2 45.2#
86 44.2 50.6 76.0#

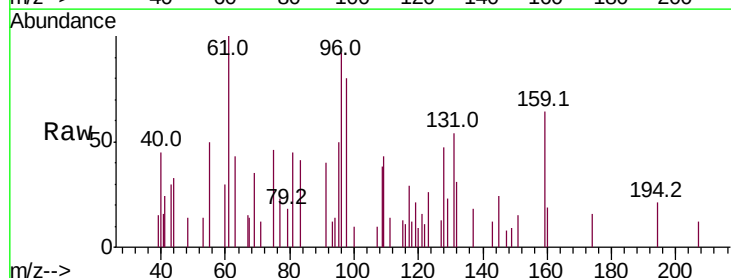


Abundance Ion 83.90 (83.60 to 84.60): VW
Ion 48.90 (48.60 to 49.60): VW
Ion 50.90 (50.60 to 51.60): VW
Ion 85.90 (85.60 to 86.60): VW

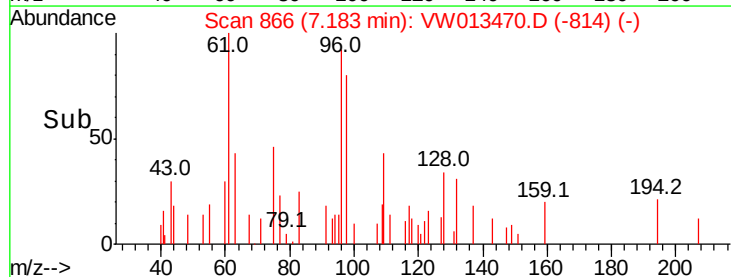
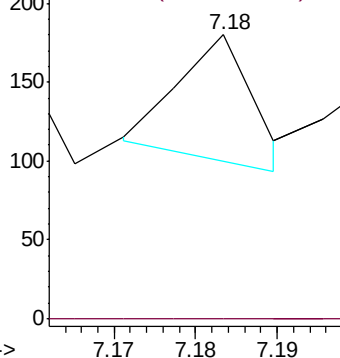


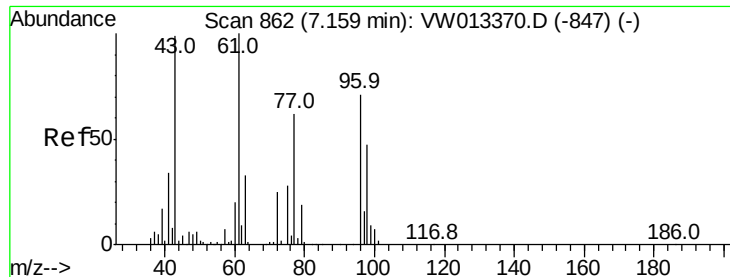
#25
2-Butanone
Concen: 1.170 ug/l
RT: 7.18 min Scan# 866
Delta R.T. 0.02 min
Lab File: VW013470.D
Acq: 07 Oct 2019 18:12

Tgt Ion: 43 Resp: 48
Ion Ratio Lower Upper
43 100
72 0.0 19.4 29.0#



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

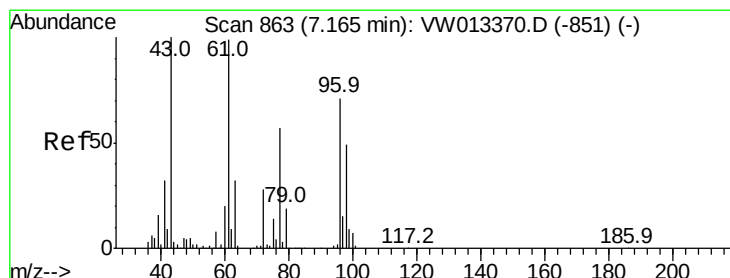
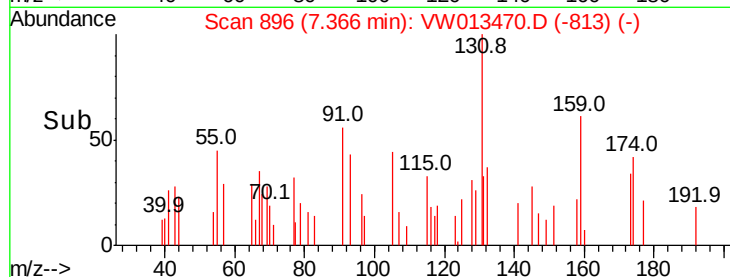
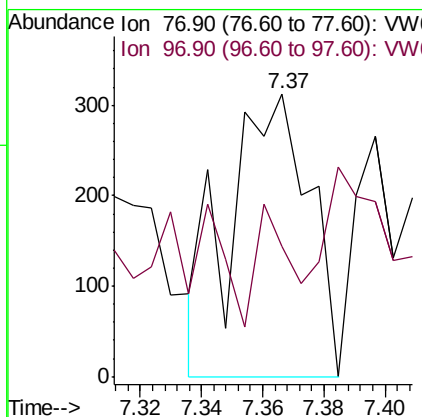
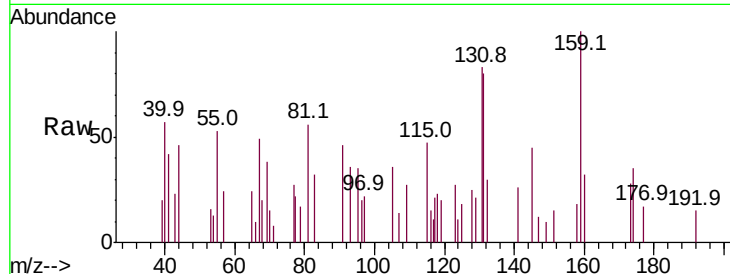




#26
 2,2-Dichloropropane
 Concen: 2.840 ug/l
 RT: 7.37 min Scan# 896
 Delta R.T. 0.21 min
 Lab File: VW013470.D
 Acq: 07 Oct 2019 18:12

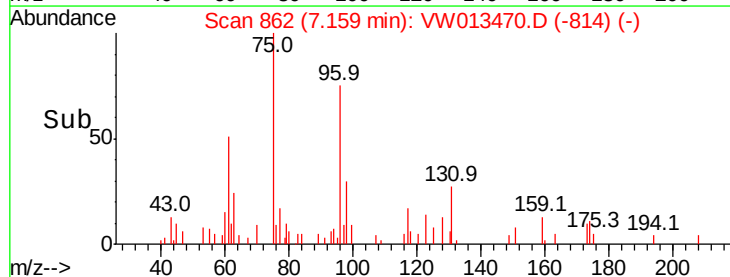
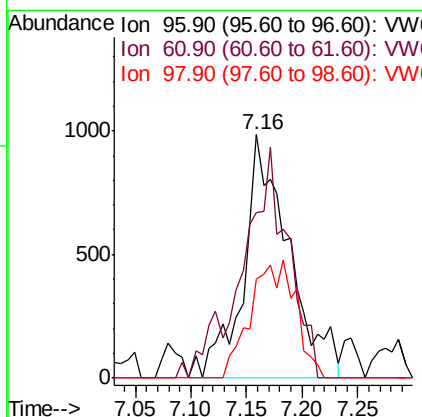
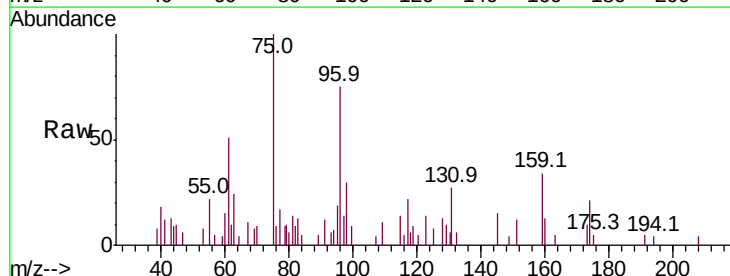
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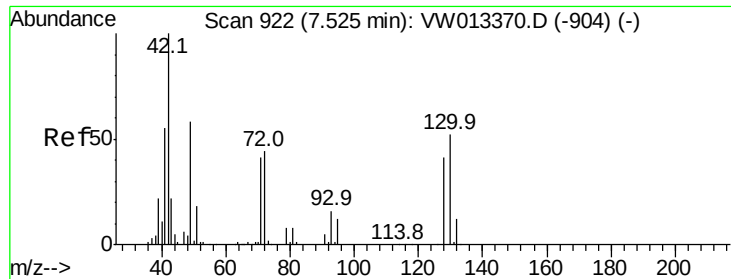
Tot Ion: 77 Resp: 572
 Ion Ratio Lower Upper
 77 100
 97 17.3 11.8 35.4



#27
 cis-1,2-Dichloroethene
 Concen: 19.549 ug/l
 RT: 7.16 min Scan# 862
 Delta R.T. -0.01 min
 Lab File: VW013470.D
 Acq: 07 Oct 2019 18:12

Tgt Ion: 96 Resp: 2810
 Ion Ratio Lower Upper
 96 100
 61 83.5 0.0 282.4
 98 0.0 0.0 128.2

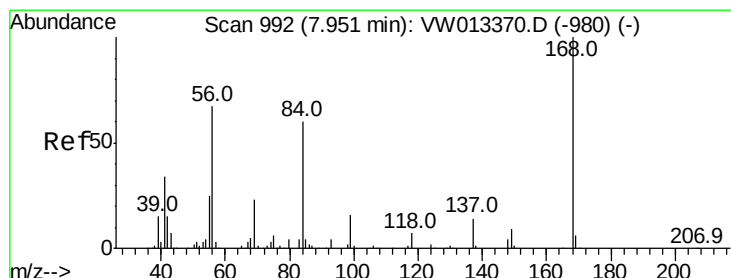
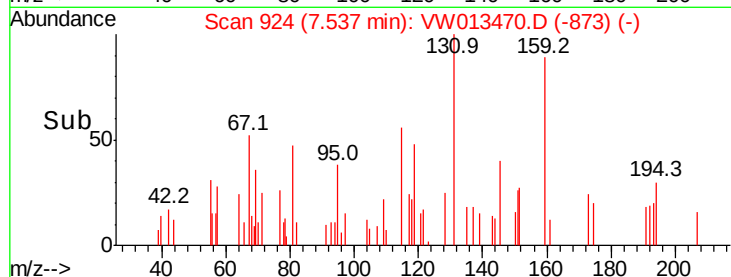
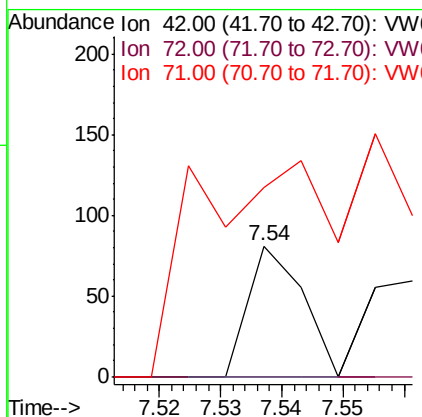
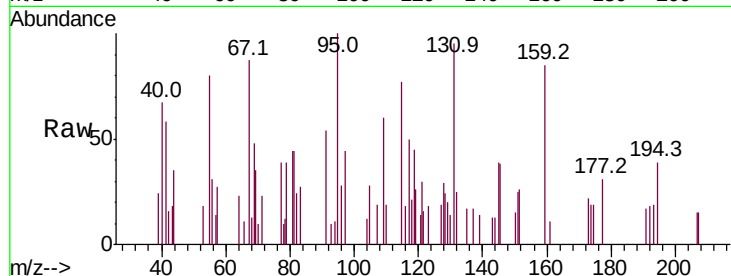




#29
Tetrahydrofuran
Concen: 11.708 ug/l
RT: 7.54 min Scan# 924
Delta R.T. 0.01 min
Lab File: VW013470.D
Acq: 07 Oct 2019 18:12

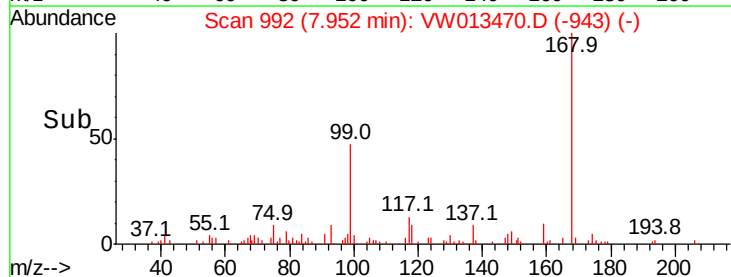
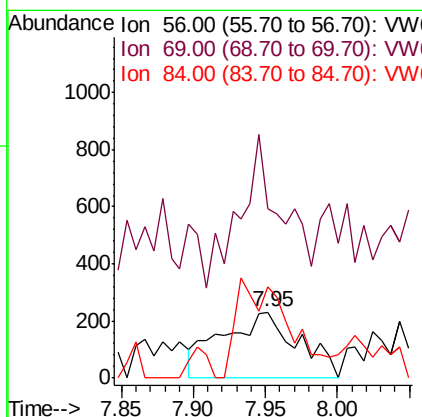
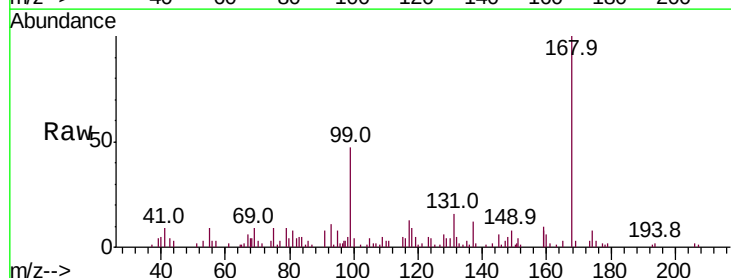
Instrument :
MSVOA_W
ClientSampled :

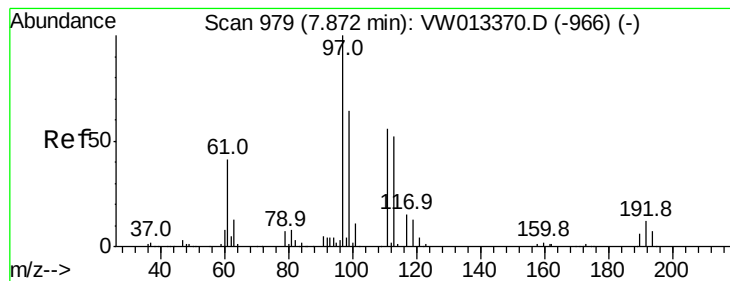
Tot Ion: 42 Resp: 50
Ion Ratio Lower Upper
42 100
72 0.0 33.9 50.9#
71 408.0 31.9 47.9#



#31
Cyclohexane
Concen: 3.535 ug/l
RT: 7.95 min Scan# 992
Delta R.T. 0.00 min
Lab File: VW013470.D
Acq: 07 Oct 2019 18:12

Tgt Ion: 56 Resp: 846
Ion Ratio Lower Upper
56 100
69 51.7 27.2 40.8#
84 111.6 70.8 106.2#





#32

1,1,1-Trichloroethane

Concen: 1.149 ug/l

RT: 7.88 min Scan# 980

Delta R.T. 0.01 min

Lab File: VW013470.D

Acq: 07 Oct 2019 18:12

Instrument :

MSVOA_W

ClientSampled :

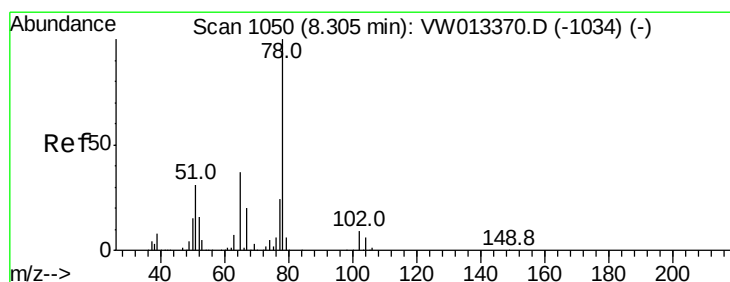
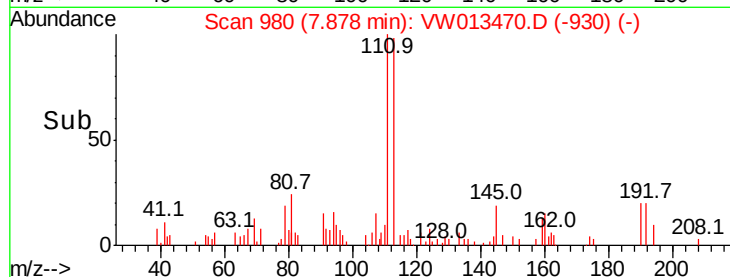
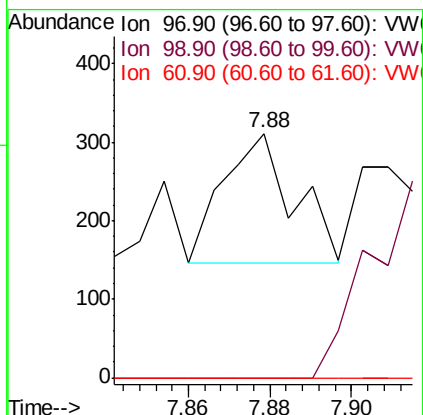
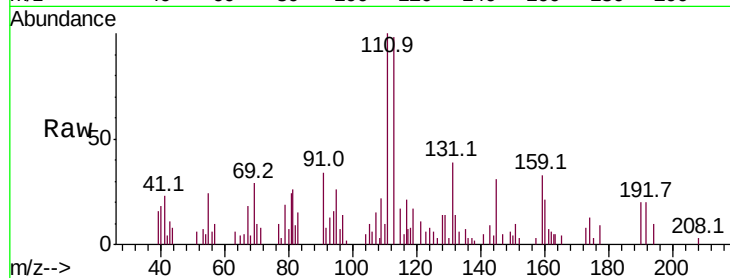
Tot Ion: 97 Resp: 198

Ion Ratio Lower Upper

97 100

99 0.0 51.7 77.5#

61 0.0 34.6 51.8#



#33

1,2-Dichloroethane-d4

Concen: 52.957 ug/l

RT: 8.31 min Scan# 1050

Delta R.T. 0.00 min

Lab File: VW013470.D

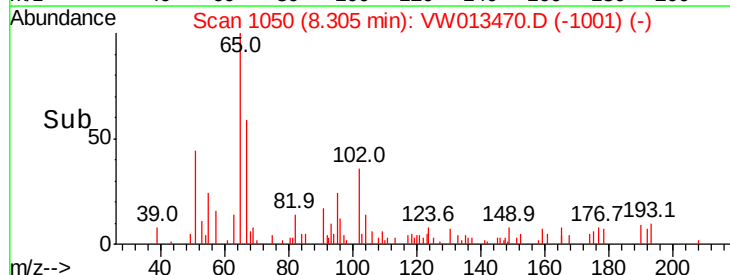
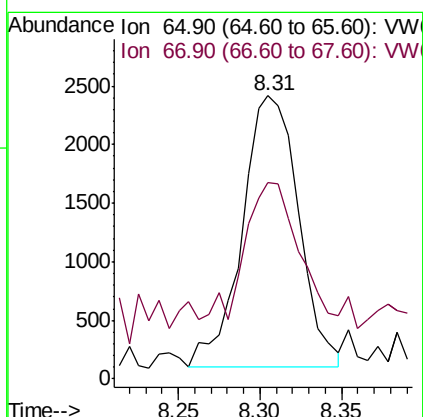
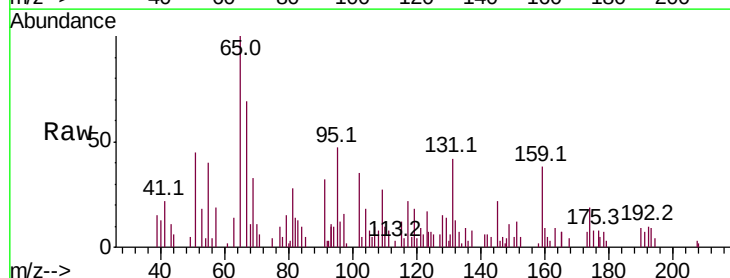
Acq: 07 Oct 2019 18:12

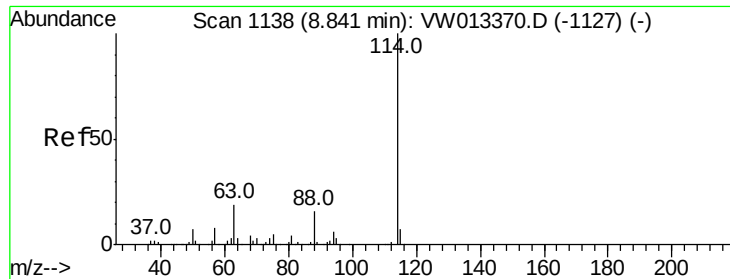
Tgt Ion: 65 Resp: 5539

Ion Ratio Lower Upper

65 100

67 51.5 0.0 106.2

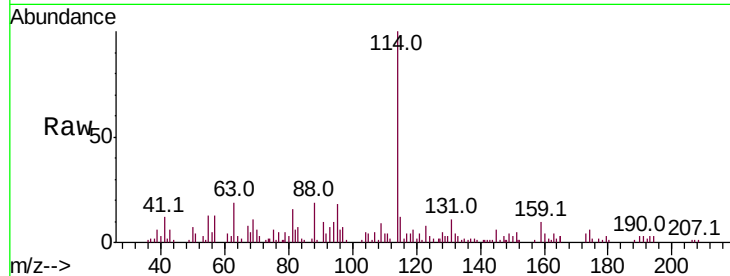




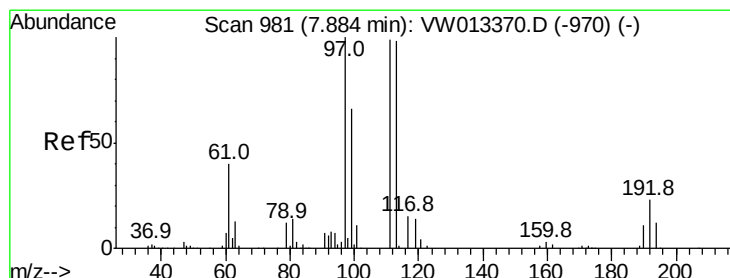
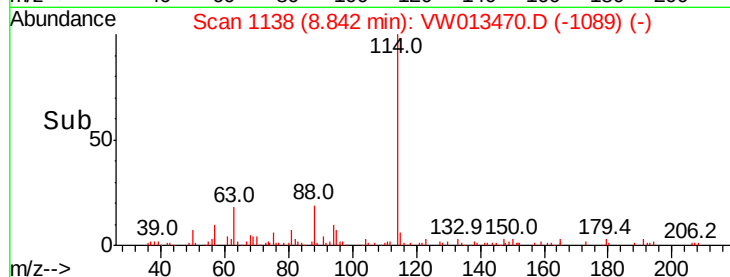
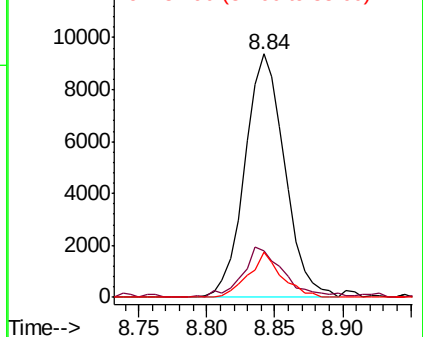
#34
 1,4-Difluorobenzene
 Concen: 50.000 ug/l
 RT: 8.84 min Scan# 1138
 Delta R.T. 0.00 min
 Lab File: VW013470.D
 Acq: 07 Oct 2019 18:12

Instrument :
 MSVOA_W
 ClientSampleId :

Tot Ion	Ratio	Lower	Upper
114	100		
63	19.1	0.0	41.4
88	18.5	0.0	32.0

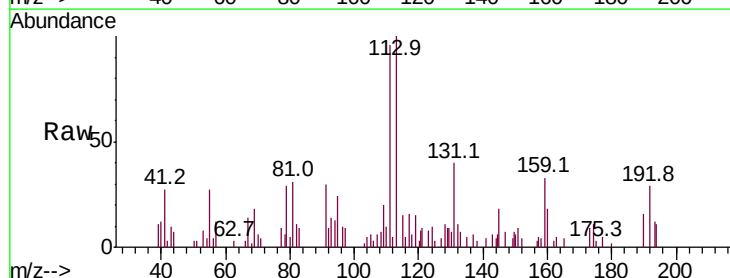


Abundance Ion 113.90 (113.60 to 114.60): V
 Ion 63.00 (62.70 to 63.70): VW
 Ion 87.90 (87.60 to 88.60): VW

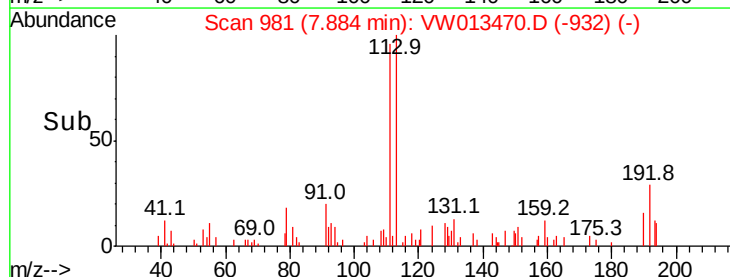
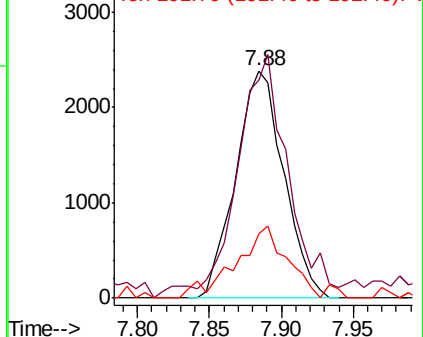


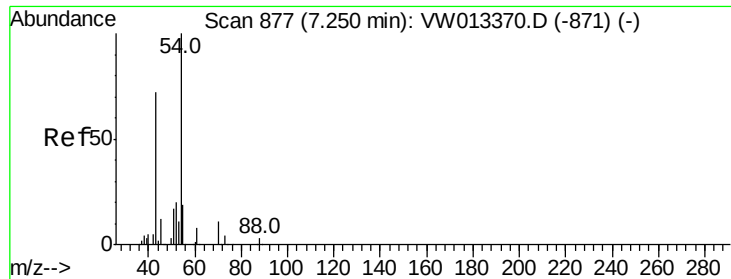
#35
 Dibromofluoromethane
 Concen: 54.981 ug/l
 RT: 7.88 min Scan# 981
 Delta R.T. 0.00 min
 Lab File: VW013470.D
 Acq: 07 Oct 2019 18:12

Tgt Ion	Ratio	Lower	Upper
113	100		
111	114.0	81.9	122.9
192	33.5	19.1	28.7#



Abundance Ion 112.80 (112.50 to 113.50): V
 Ion 110.80 (110.50 to 111.50): V
 Ion 191.70 (191.40 to 192.40): V

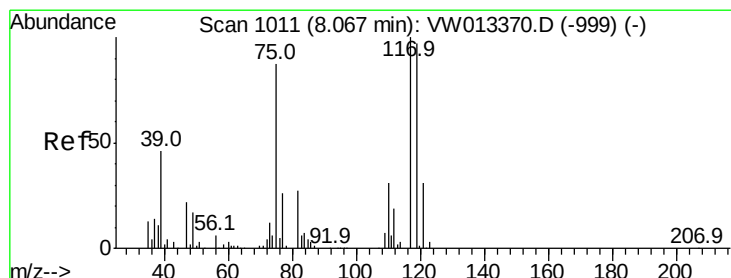
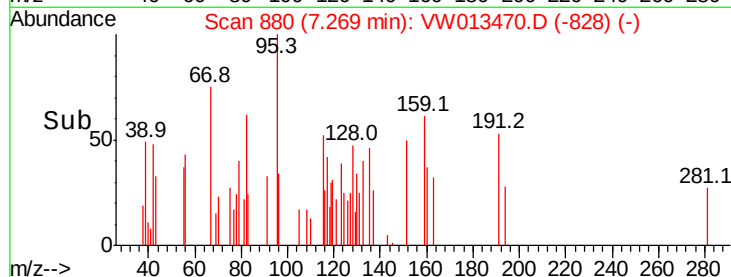
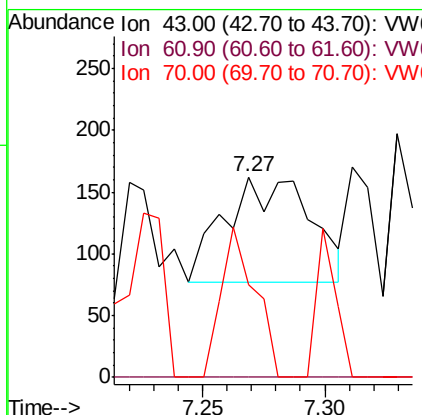
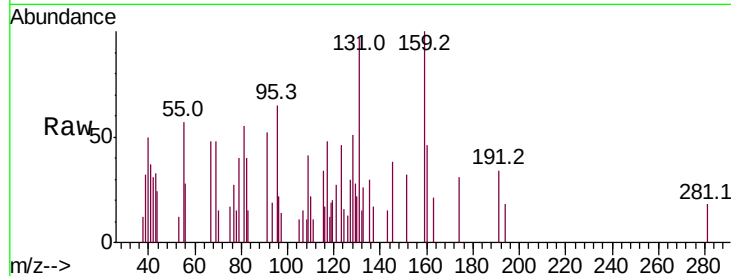




#37
Ethyl Acetate
Concen: 2.762 ug/l
RT: 7.27 min Scan# 880
Delta R.T. 0.02 min
Lab File: VW013470.D
Acq: 07 Oct 2019 18:12

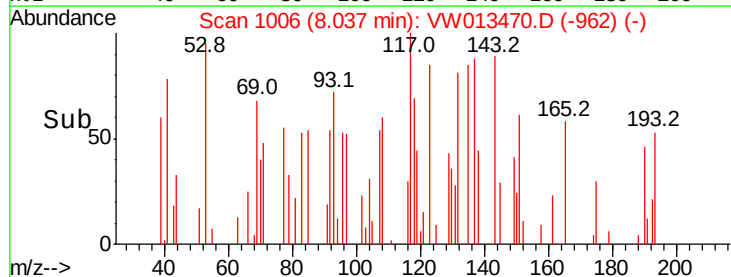
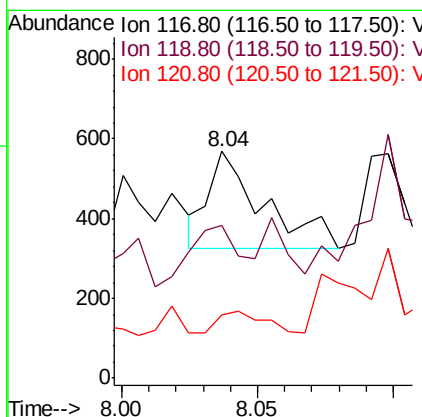
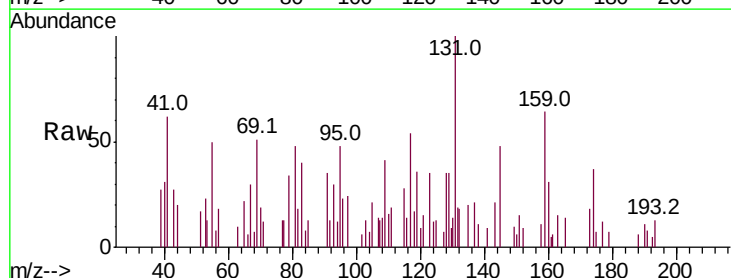
Instrument :
MSVOA_W
ClientSampled :

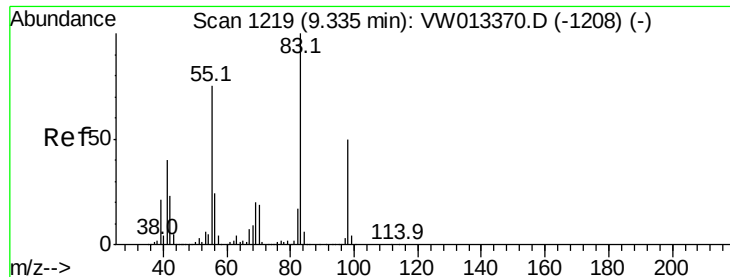
Tot Ion: 43 Resp: 206
Ion Ratio Lower Upper
43 100
61 0.0 10.9 16.3#
70 56.8 8.2 12.2#



#38
Carbon Tetrachloride
Concen: 2.190 ug/l
RT: 8.04 min Scan# 1006
Delta R.T. -0.03 min
Lab File: VW013470.D
Acq: 07 Oct 2019 18:12

Tgt Ion: 117 Resp: 338
Ion Ratio Lower Upper
117 100
119 36.5 73.5 110.3#
121 18.4 25.0 37.6#

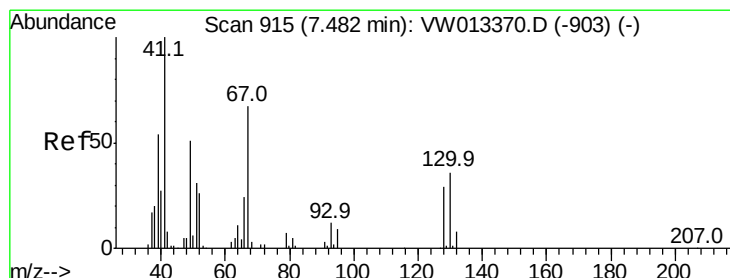
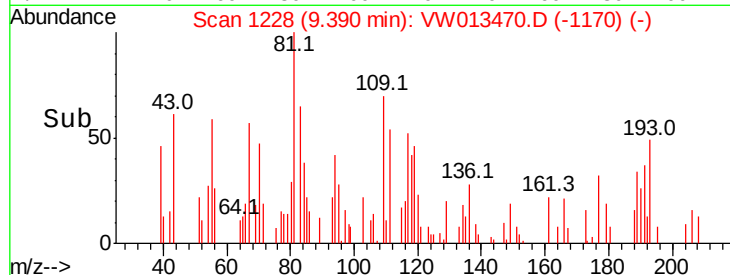
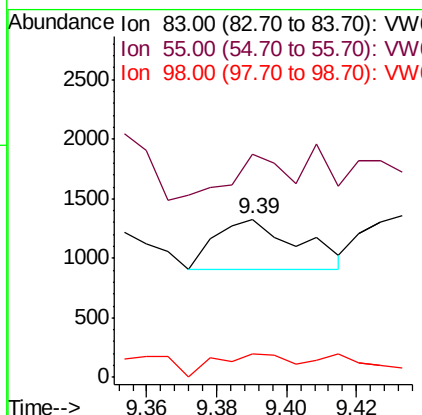
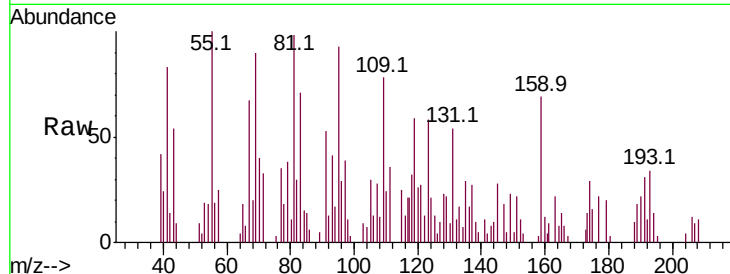




#39
Methylcyclohexane
Concen: 3.000 ug/l
RT: 9.39 min Scan# 1228
Delta R.T. 0.06 min
Lab File: VW013470.D
Acq: 07 Oct 2019 18:12

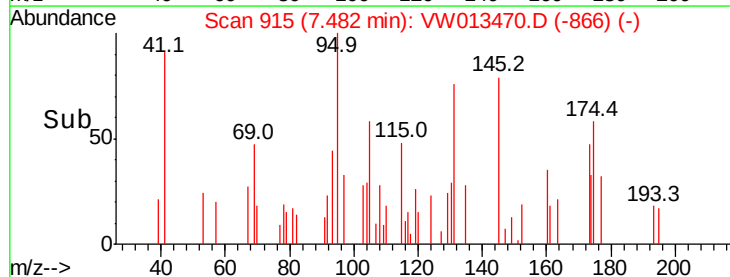
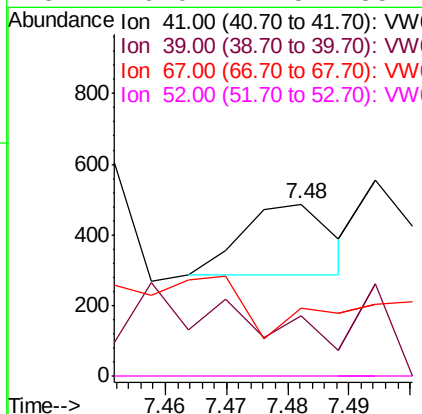
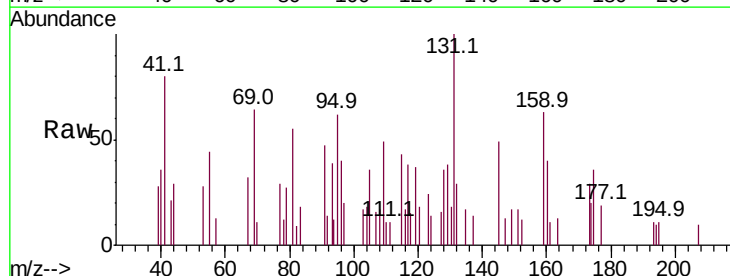
Instrument :
MSVOA_W
ClientSampled :

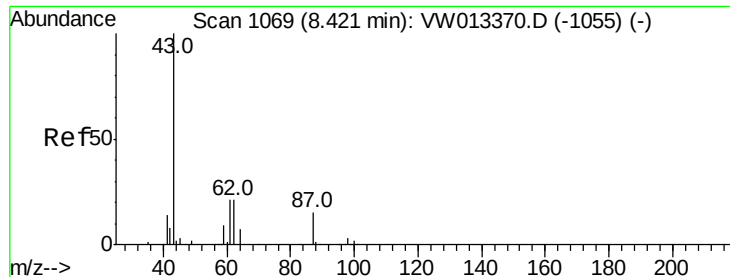
Tot Ion: 83 Resp: 704
Ion Ratio Lower Upper
83 100
55 79.7 60.4 90.6
98 46.4 40.0 60.0



#41
Methacrylonitrile
Concen: 4.282 ug/l
RT: 7.48 min Scan# 915
Delta R.T. 0.00 min
Lab File: VW013470.D
Acq: 07 Oct 2019 18:12

Tgt Ion: 41 Resp: 203
Ion Ratio Lower Upper
41 100
39 0.0 45.9 68.9#
67 116.7 54.5 81.7#
52 0.0 22.5 33.7#





#43

Isopropyl Acetate

Concen: 1.372 ug/l

RT: 8.41 min Scan# 1067

Delta R.T. -0.01 min

Lab File: VW013470.D

Acq: 07 Oct 2019 18:12

Instrument :

MSVOA_W

ClientSampleId :

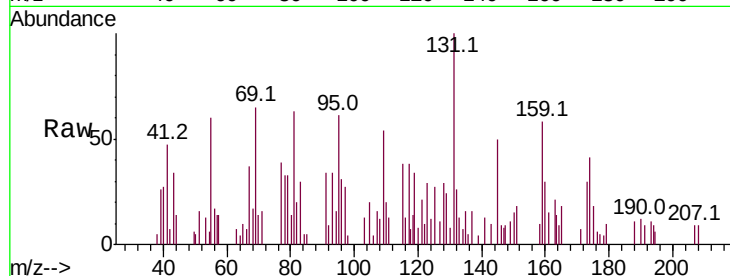
Tot Ion: 43 Resp: 203

Ion Ratio Lower Upper

43 100

61 0.0 25.5 38.3#

87 0.0 11.0 16.4#



Abundance Ion 43.00 (42.70 to 43.70): VW

Ion 61.00 (60.70 to 61.70): VW

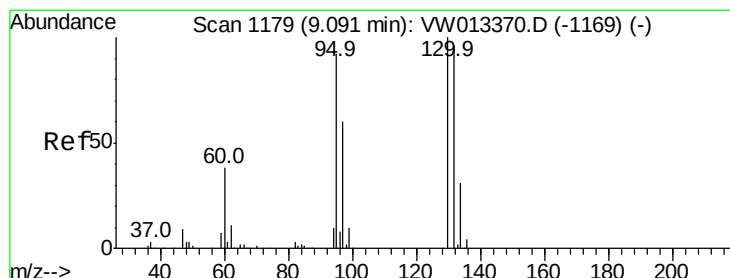
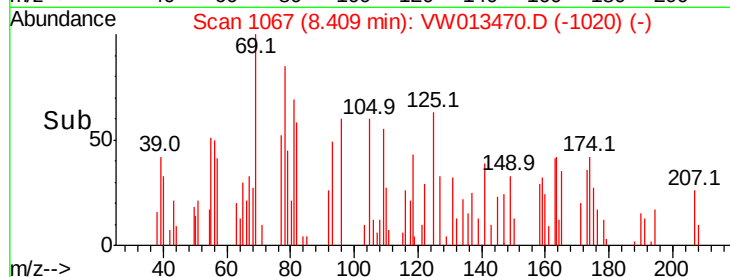
Ion 87.00 (86.70 to 87.70): VW

8.41

8.42

8.43

Time-->



#44

Trichloroethene

Concen: 11.942 ug/l

RT: 9.09 min Scan# 1178

Delta R.T. -0.01 min

Lab File: VW013470.D

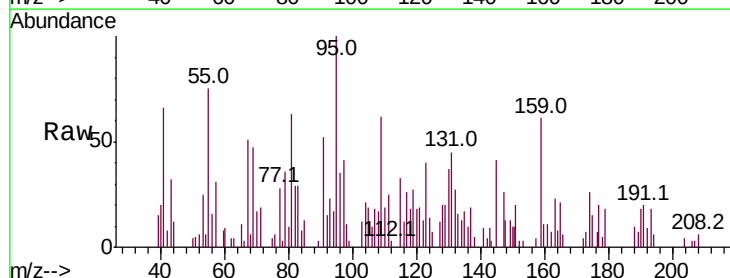
Acq: 07 Oct 2019 18:12

Tgt Ion: 130 Resp: 1696

Ion Ratio Lower Upper

130 100

95 57.5 0.0 188.0



Abundance Ion 129.80 (129.50 to 130.50): V

Ion 94.90 (94.60 to 95.60): VW

2500

2000

1500

1000

500

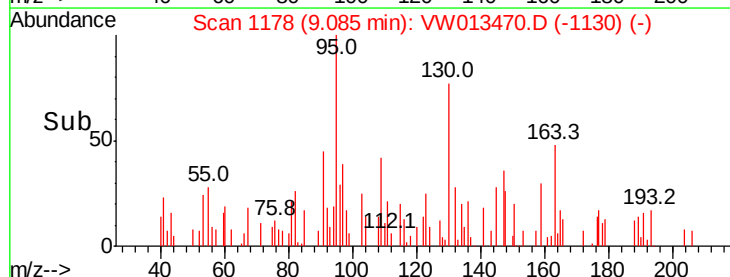
0

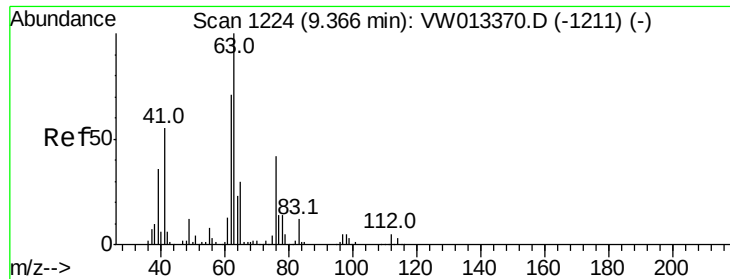
9.05

9.10

9.15

Time-->





#45

1,2-Dichloropropane

Concen: 1.544 ug/l

RT: 9.40 min Scan# 1230

Delta R.T. 0.04 min

Lab File: VW013470.D

Acq: 07 Oct 2019 18:12

Instrument :

MSVOA_W

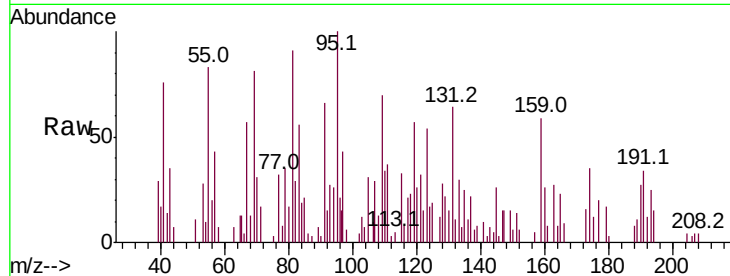
ClientSampled :

Tot Ion: 63 Resp: 187

Ion Ratio Lower Upper

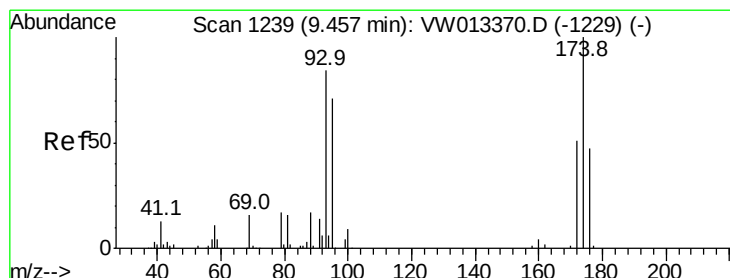
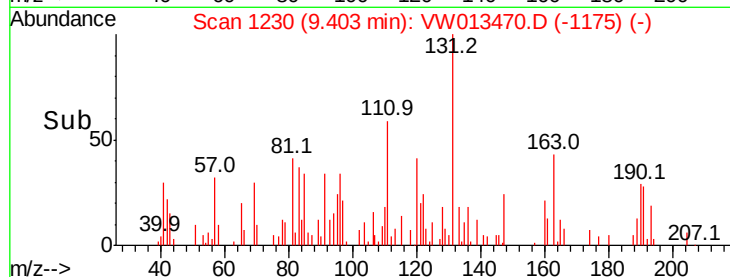
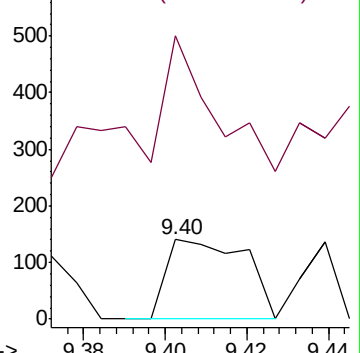
63 100

65 168.8 25.3 37.9#



Abundance Ion 62.90 (62.60 to 63.60): VW

Ion 64.90 (64.60 to 65.60): VW



#46

Dibromomethane

Concen: 7.196 ug/l

RT: 9.48 min Scan# 1243

Delta R.T. 0.02 min

Lab File: VW013470.D

Acq: 07 Oct 2019 18:12

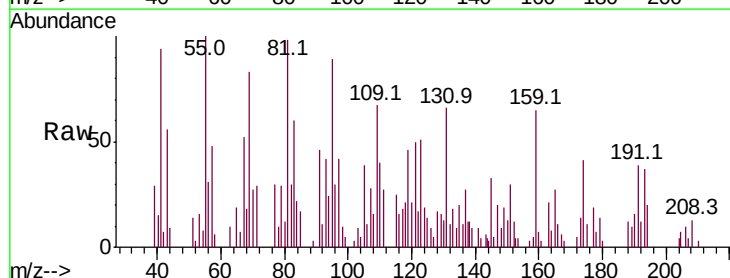
Tgt Ion: 93 Resp: 434

Ion Ratio Lower Upper

93 100

95 86.2 66.4 99.6

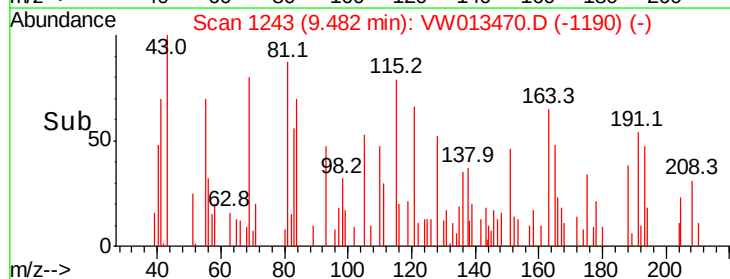
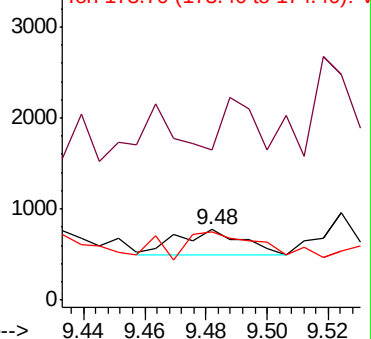
174 145.6 93.0 139.6#

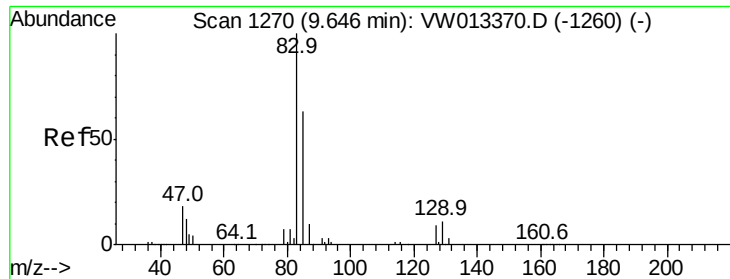


Abundance Ion 92.80 (92.50 to 93.50): VW

Ion 94.80 (94.50 to 95.50): VW

Ion 173.70 (173.40 to 174.40): V





#47

Bromodichloromethane

Concen: 6.870 ug/l

RT: 9.64 min Scan# 1269

Delta R.T. -0.01 min

Lab File: VW013470.D

Acq: 07 Oct 2019 18:12

Instrument :

MSVOA_W

ClientSampled :

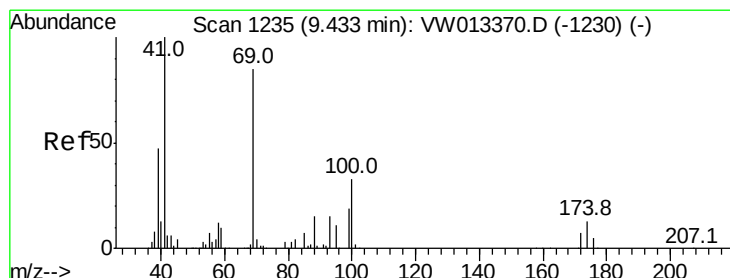
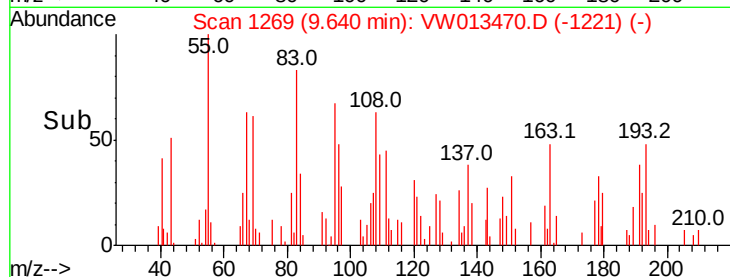
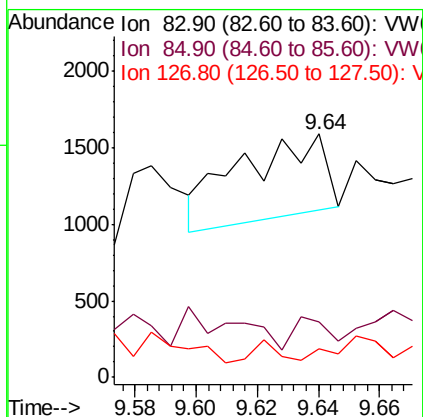
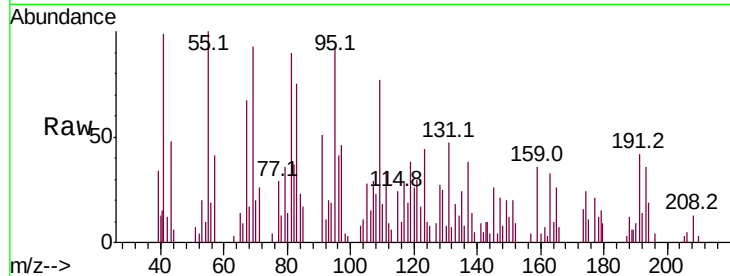
Tot Ion: 83 Resp: 1020

Ion Ratio Lower Upper

83 100

85 25.9 49.4 74.2#

127 8.0 6.5 9.7



#48

Methyl methacrylate

Concen: 5.724 ug/l

RT: 9.43 min Scan# 1234

Delta R.T. -0.01 min

Lab File: VW013470.D

Acq: 07 Oct 2019 18:12

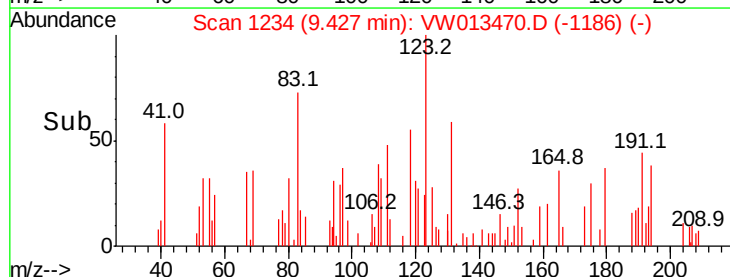
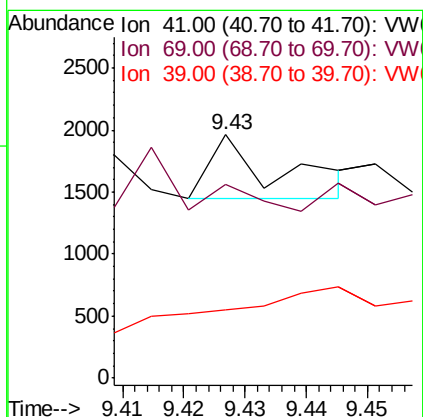
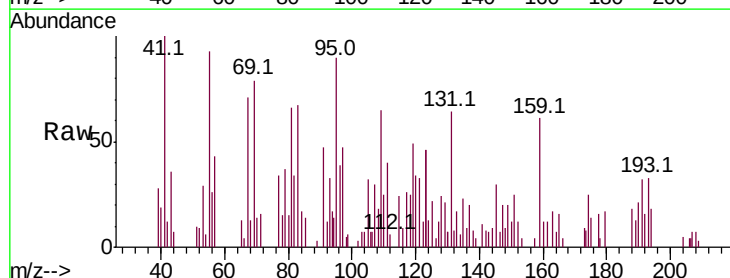
Tgt Ion: 41 Resp: 407

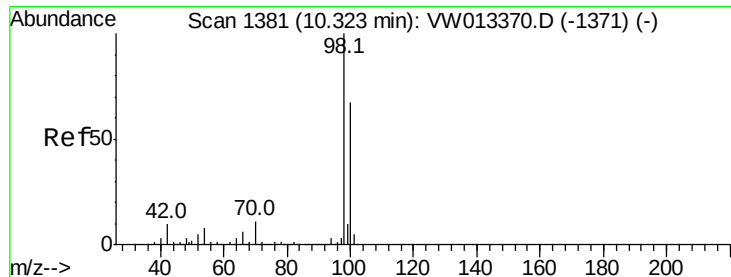
Ion Ratio Lower Upper

41 100

69 156.0 69.7 104.5#

39 0.0 41.1 61.7#

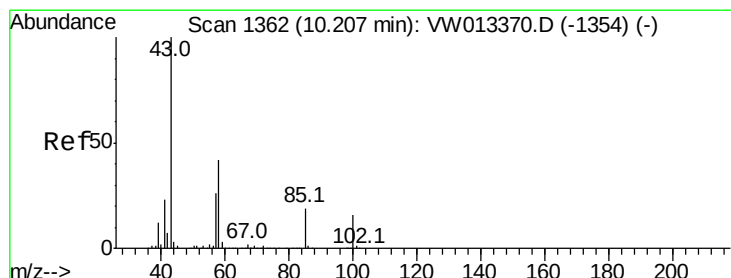
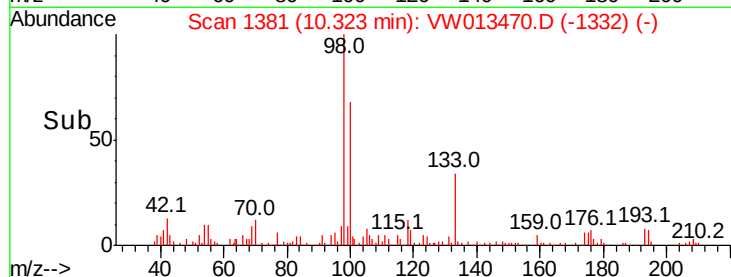
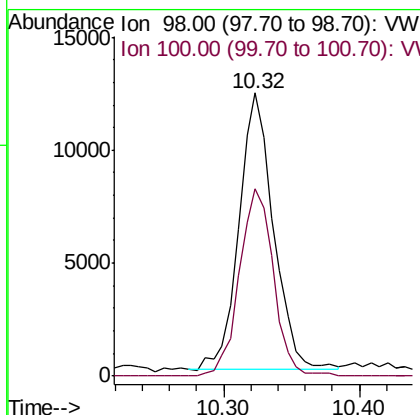
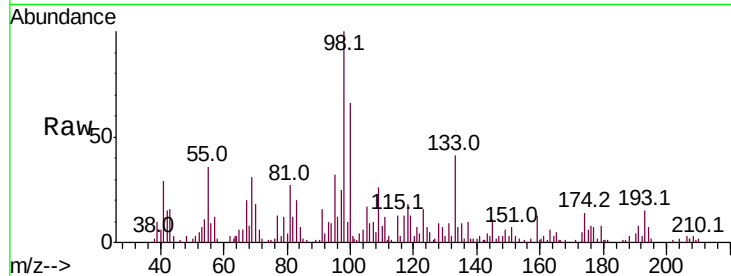




#50
Toluene-d8
Concen: 51.646 ug/l
RT: 10.32 min Scan# 1381
Delta R.T. 0.00 min
Lab File: VW013470.D
Acq: 07 Oct 2019 18:12

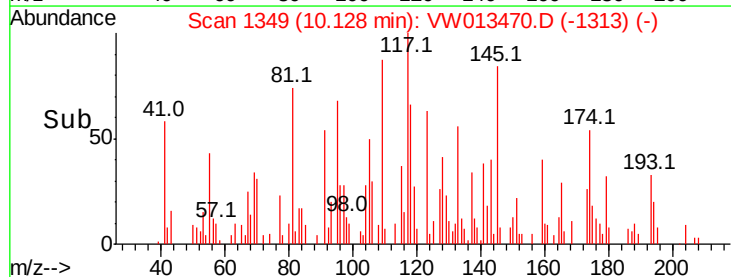
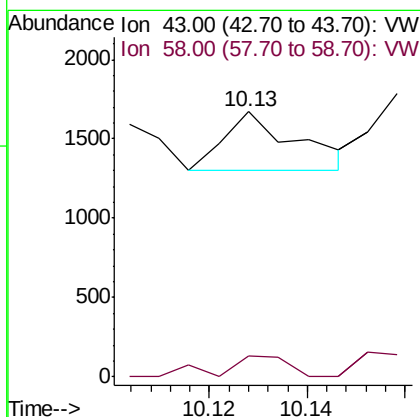
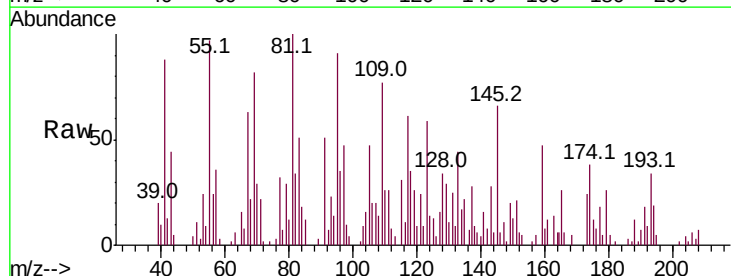
Instrument :
MSVOA_W
ClientSampled :

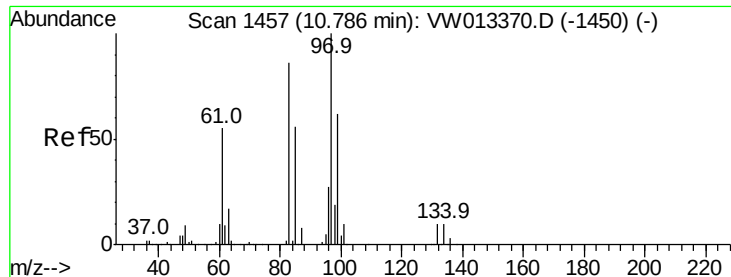
Tot Ion: 98 Resp: 21572
Ion Ratio Lower Upper
98 100
100 67.3 52.9 79.3



#51
4-Methyl-2-Pentanone
Concen: 4.874 ug/l
RT: 10.13 min Scan# 1349
Delta R.T. -0.08 min
Lab File: VW013470.D
Acq: 07 Oct 2019 18:12

Tgt Ion: 43 Resp: 379
Ion Ratio Lower Upper
43 100
58 32.2 31.7 47.5





#55

1,1,2-Trichloroethane

Concen: 17.116 ug/l

RT: 10.79 min Scan# 1457

Delta R.T. 0.00 min

Lab File: VW013470.D

Acq: 07 Oct 2019 18:12

Instrument :

MSVOA_W

ClientSampled :

Tot Ion: 97 Resp: 1540

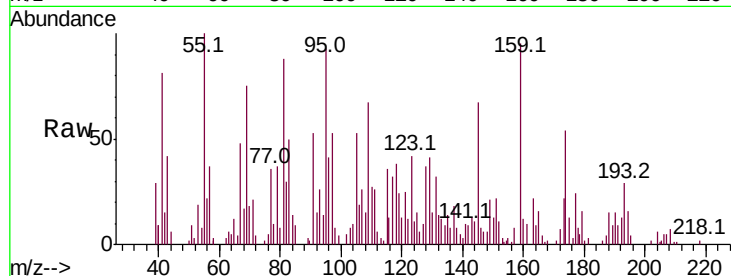
Ion Ratio Lower Upper

97 100

83 49.0 67.6 101.4#

85 0.0 41.9 62.9#

99 7.0 50.1 75.1#

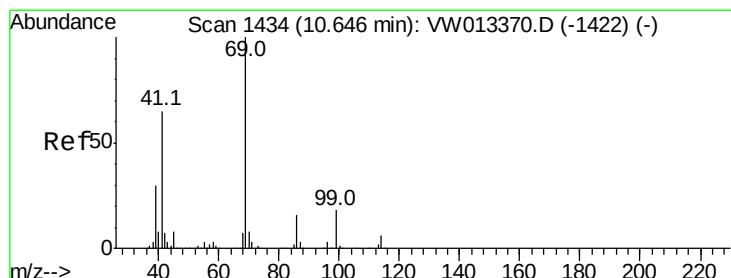
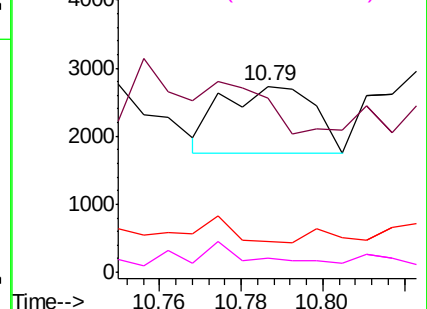
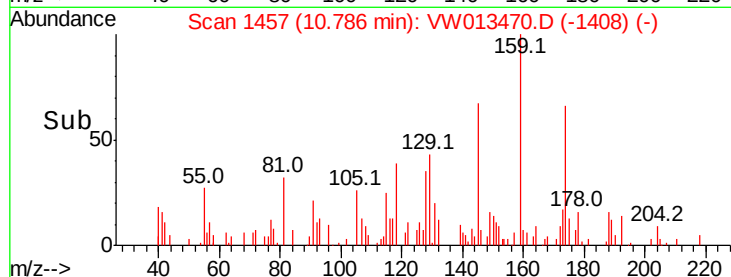


Abundance Ion 96.90 (96.60 to 97.60): VW

Ion 82.90 (82.60 to 83.60): VW

Ion 84.90 (84.60 to 85.60): VW

Ion 98.90 (98.60 to 99.60): VW



#56

Ethyl methacrylate

Concen: 9.991 ug/l

RT: 10.63 min Scan# 1432

Delta R.T. -0.01 min

Lab File: VW013470.D

Acq: 07 Oct 2019 18:12

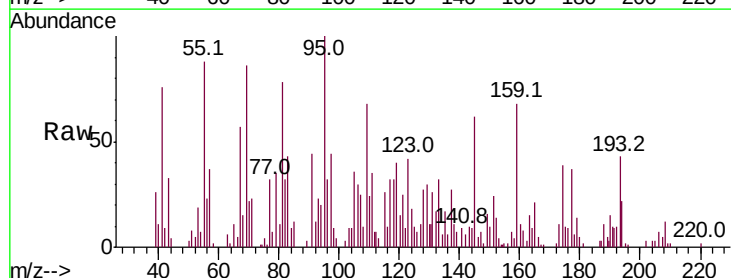
Tgt Ion: 69 Resp: 1210

Ion Ratio Lower Upper

69 100

41 0.0 53.9 80.9#

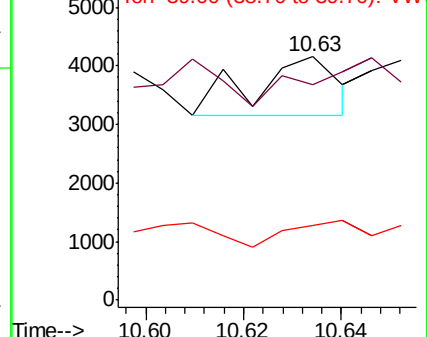
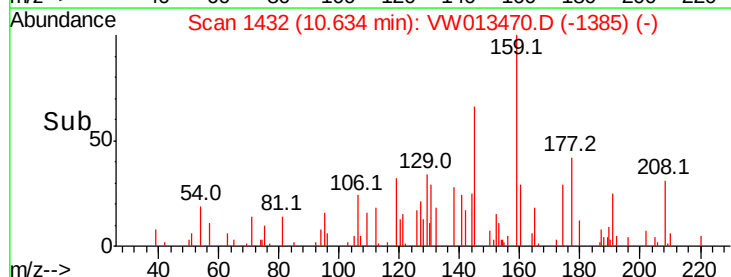
39 40.2 23.8 35.6#

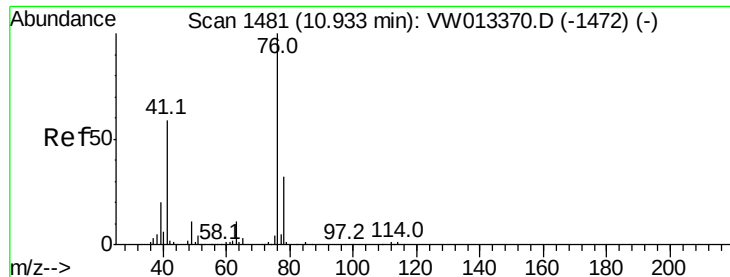


Abundance Ion 69.00 (68.70 to 69.70): VW

Ion 41.00 (40.70 to 41.70): VW

Ion 39.00 (38.70 to 39.70): VW





#57

1,3-Dichloropropane

Concen: 4.801 ug/l

RT: 10.85 min Scan# 1467

Delta R.T. -0.09 min

Lab File: VW013470.D

Acq: 07 Oct 2019 18:12

Instrument :

MSVOA_W

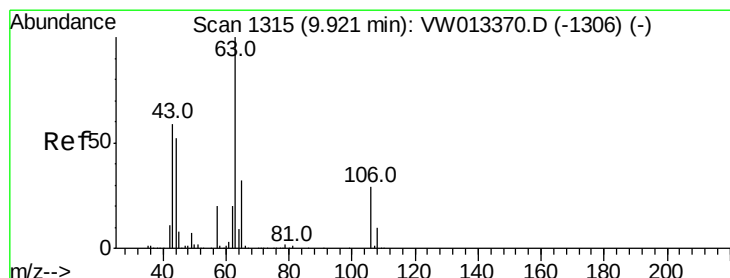
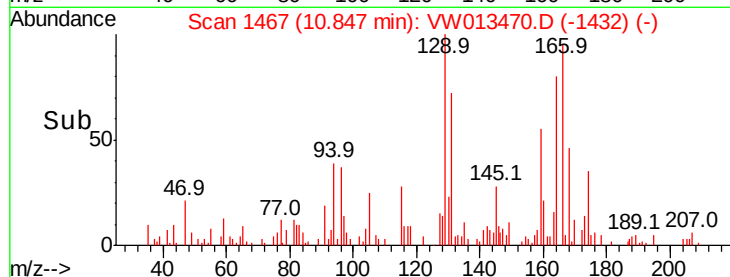
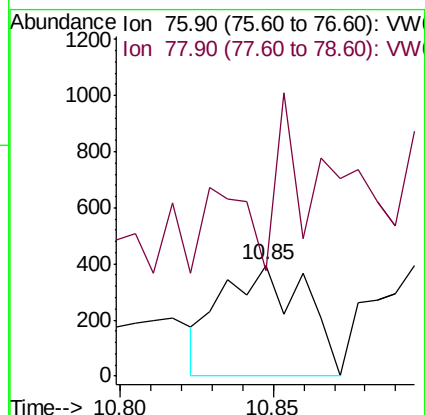
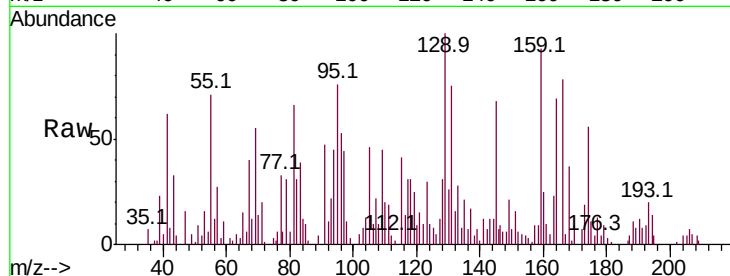
ClientSampled :

Tot Ion: 76 Resp: 751

Ion Ratio Lower Upper

76 100

78 36.2 25.5 38.3



#58

2-Chloroethyl Vinyl ether

Concen: 2.030 ug/l

RT: 9.92 min Scan# 1315

Delta R.T. 0.00 min

Lab File: VW013470.D

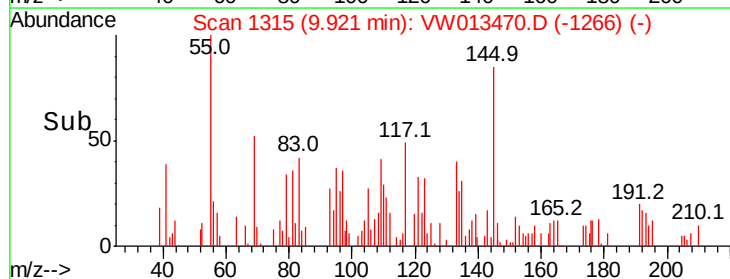
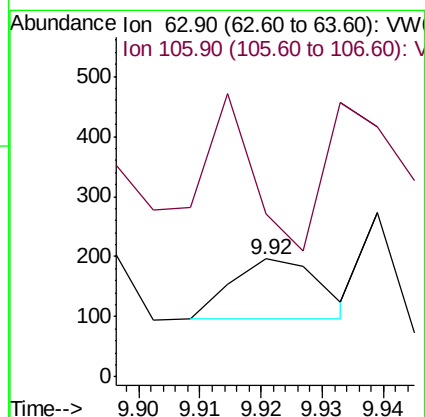
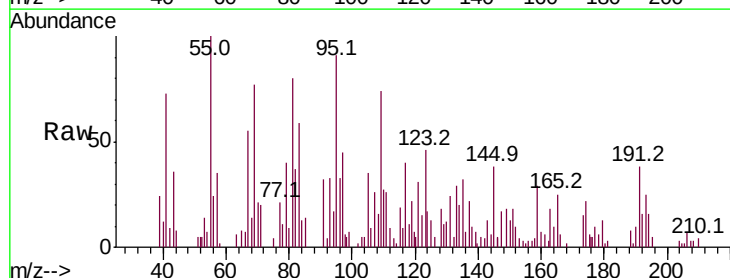
Acq: 07 Oct 2019 18:12

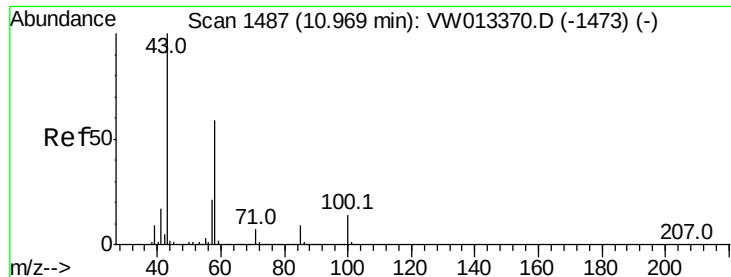
Tgt Ion: 63 Resp: 101

Ion Ratio Lower Upper

63 100

106 143.6 23.4 35.0#

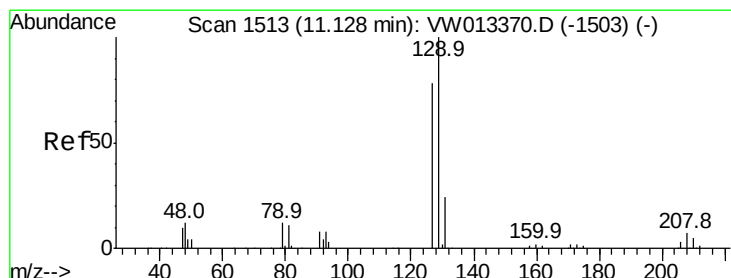
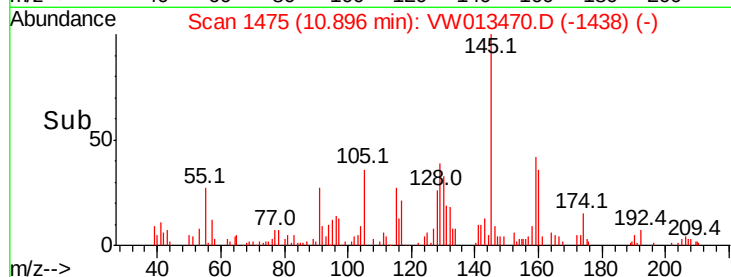
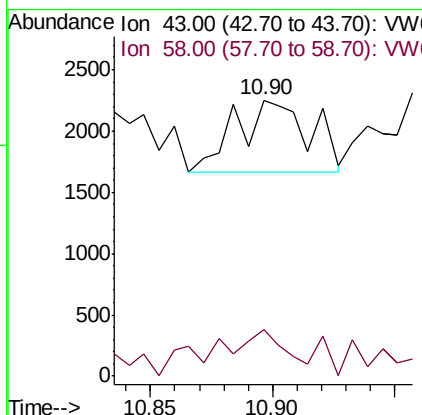
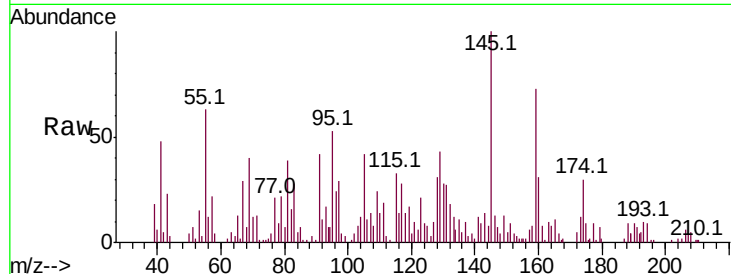




#59
2-Hexanone
Concen: 23.342 ug/l
RT: 10.90 min Scan# 1475
Delta R.T. -0.07 min
Lab File: VW013470.D
Acq: 07 Oct 2019 18:12

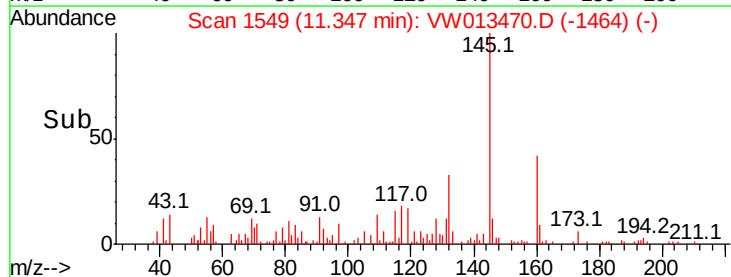
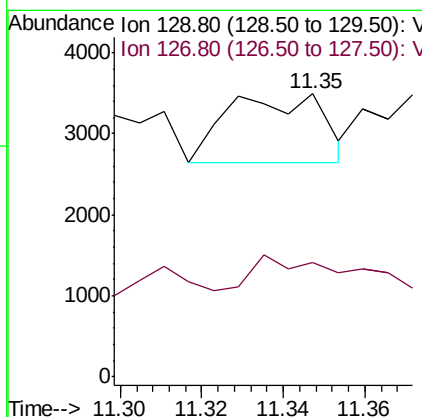
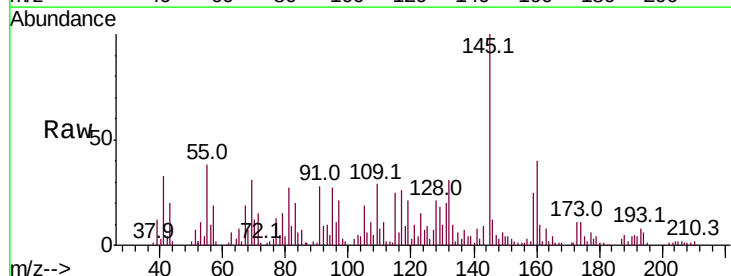
Instrument :
MSVOA_W
ClientSampled :

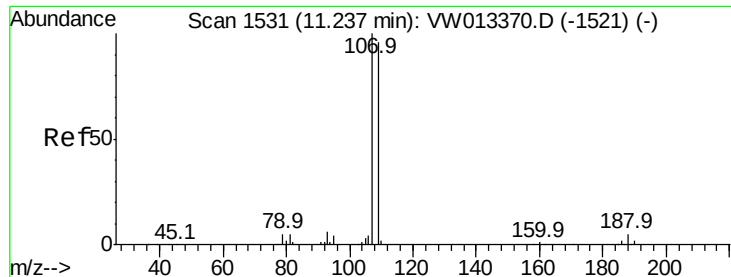
Tot Ion: 43 Resp: 1258
Ion Ratio Lower Upper
43 100
58 35.1 28.1 84.2



#60
Dibromochloromethane
Concen: 13.416 ug/l
RT: 11.35 min Scan# 1549
Delta R.T. 0.22 min
Lab File: VW013470.D
Acq: 07 Oct 2019 18:12

Tgt Ion: 129 Resp: 1381
Ion Ratio Lower Upper
129 100
127 107.9 38.8 116.4

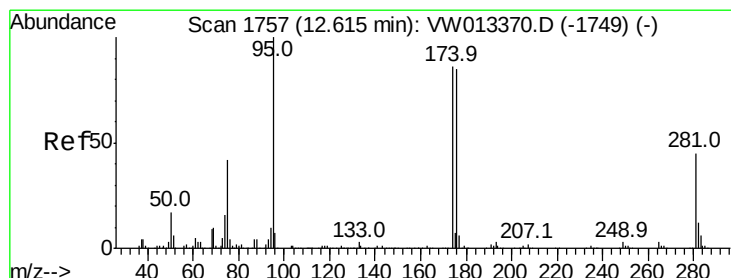
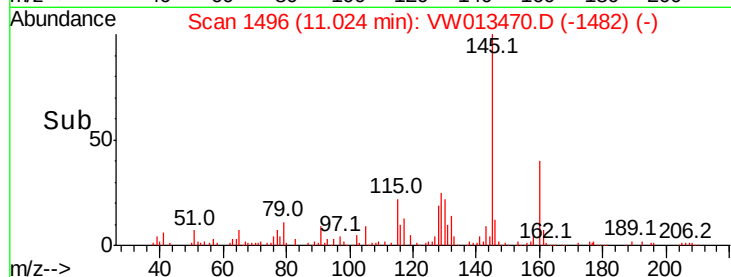
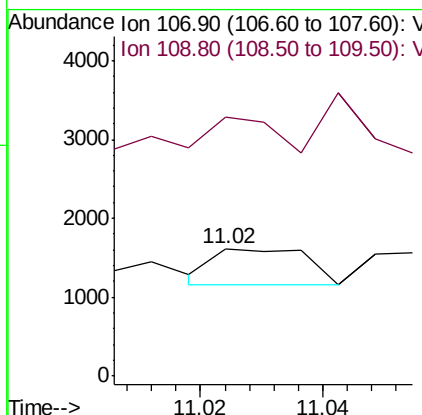
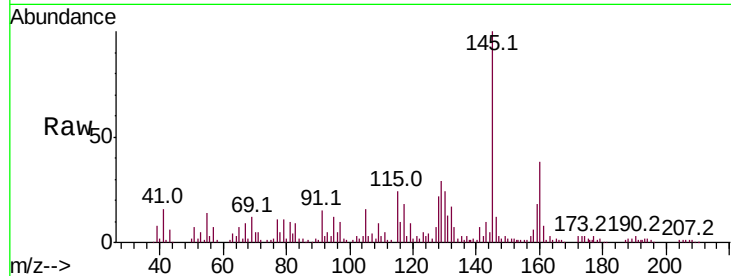




#61
 1,2-Dibromoethane
 Concen: 5.544 ug/l
 RT: 11.02 min Scan# 1496
 Delta R.T. -0.21 min
 Lab File: VW013470.D
 Acq: 07 Oct 2019 18:12

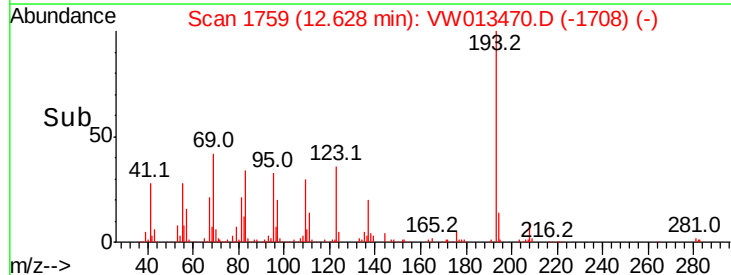
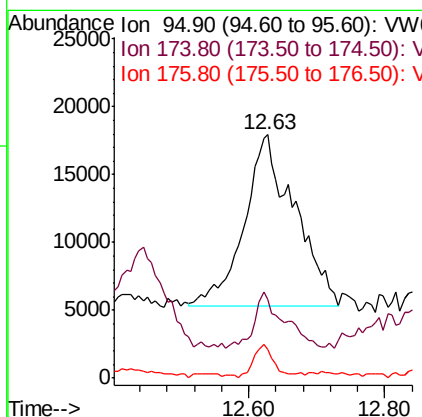
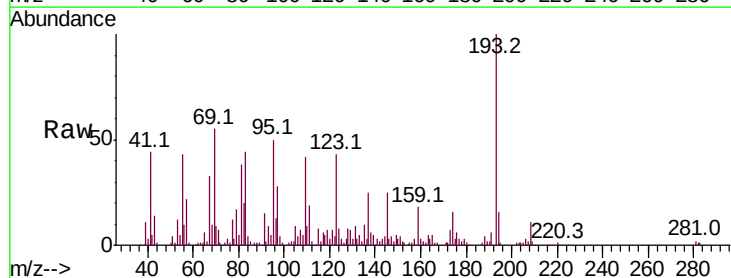
Instrument :
 MSVOA_W
 ClientSampleId :

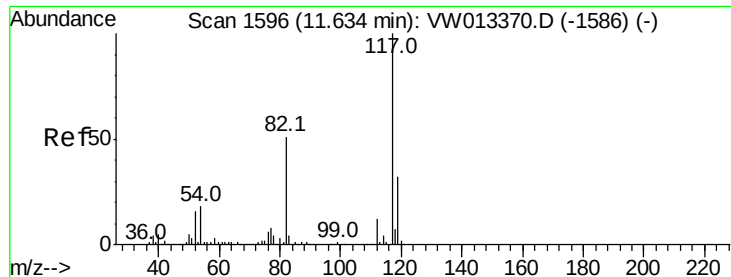
Tot Ion: 107 Resp: 482
 Ion Ratio Lower Upper
 107 100
 109 88.8 75.2 112.8



#62
 4-Bromofluorobenzene
 Concen: 470.369 ug/l
 RT: 12.63 min Scan# 1759
 Delta R.T. 0.01 min
 Lab File: VW013470.D
 Acq: 07 Oct 2019 18:12

Tgt Ion: 95 Resp: 65608
 Ion Ratio Lower Upper
 95 100
 174 19.2 0.0 178.4
 176 7.8 0.0 172.2

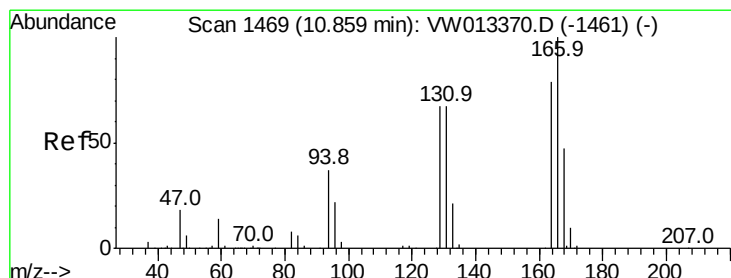
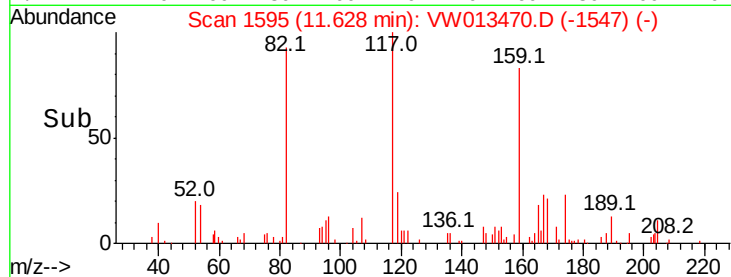
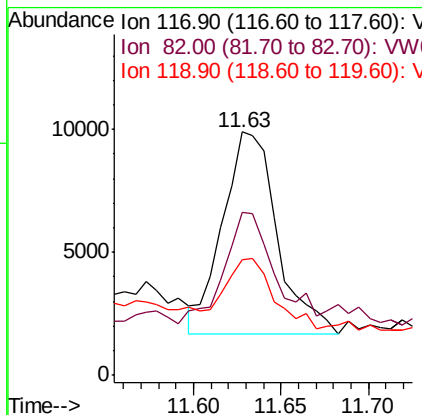
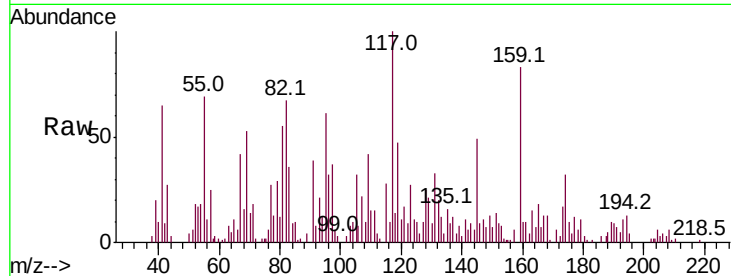




#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.63 min Scan# 1595
Delta R.T. -0.01 min
Lab File: VW013470.D
Acq: 07 Oct 2019 18:12

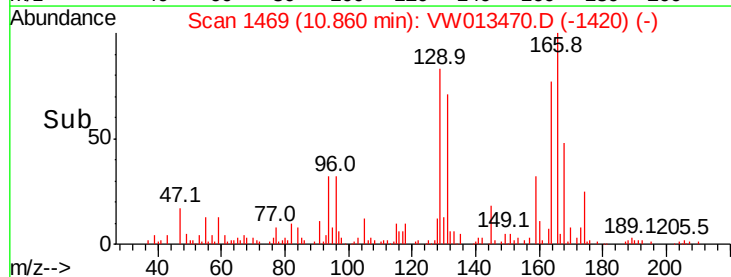
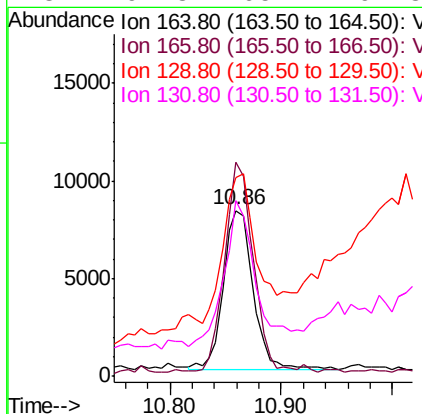
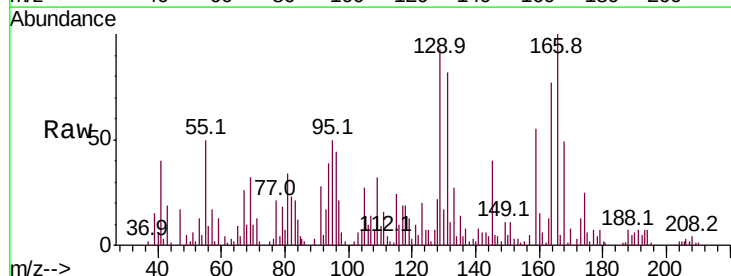
Instrument :
MSVOA_W
ClientSampleId :

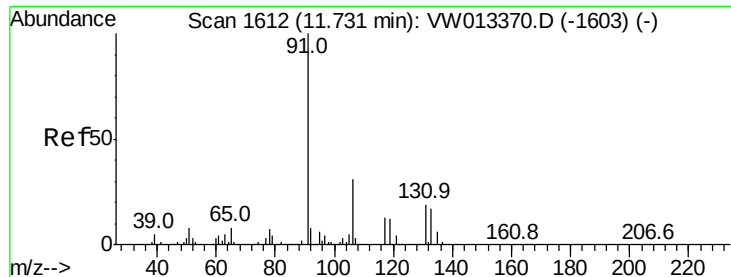
Tot Ion:117 Resp: 17778
Ion Ratio Lower Upper
117 100
82 48.3 45.9 68.9
119 32.0 26.2 39.2



#64
Tetrachloroethene
Concen: 111.761 ug/l
RT: 10.86 min Scan# 1469
Delta R.T. 0.00 min
Lab File: VW013470.D
Acq: 07 Oct 2019 18:12

Tgt Ion:164 Resp: 15116
Ion Ratio Lower Upper
164 100
166 130.9 101.2 151.8
129 86.6 68.8 103.2
131 91.8 65.2 97.8





#66

1,1,1,2-Tetrachloroethane

Concen: 8.456 ug/l

RT: 11.78 min Scan# 1620

Delta R.T. 0.05 min

Lab File: VW013470.D

Acq: 07 Oct 2019 18:12

Instrument :

MSVOA_W

ClientSampled :

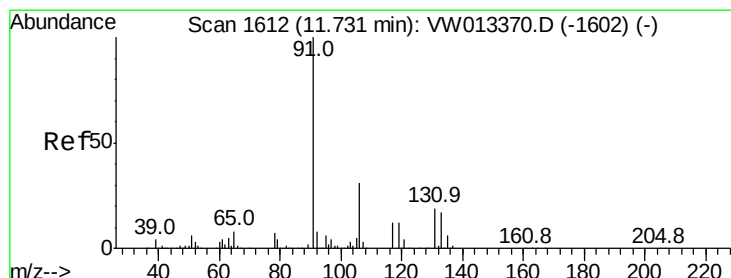
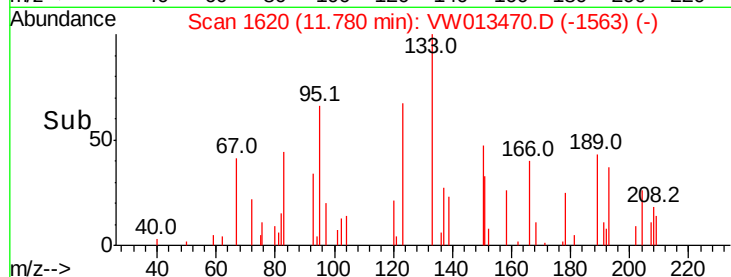
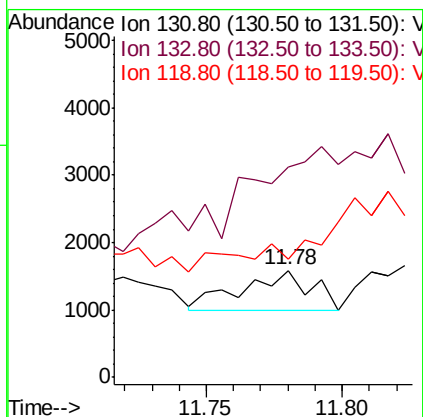
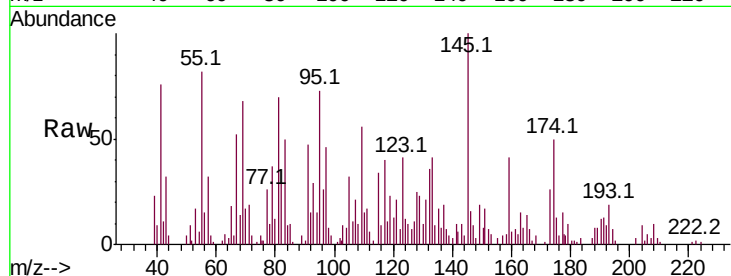
Tot Ion:131 Resp: 1049

Ion Ratio Lower Upper

131 100

133 252.8 47.5 142.6#

119 0.0 32.5 97.5#



#67

Ethyl Benzene

Concen: 1.936 ug/l

RT: 11.74 min Scan# 1614

Delta R.T. 0.01 min

Lab File: VW013470.D

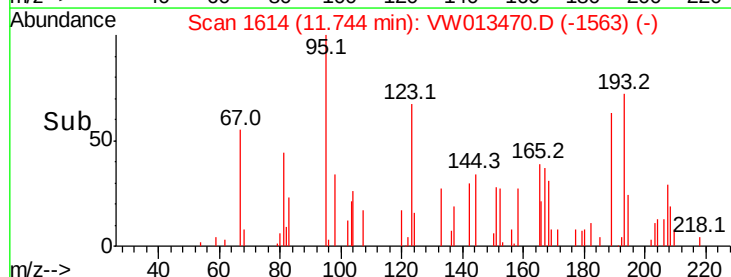
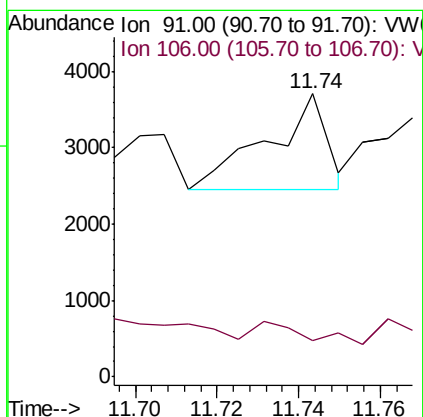
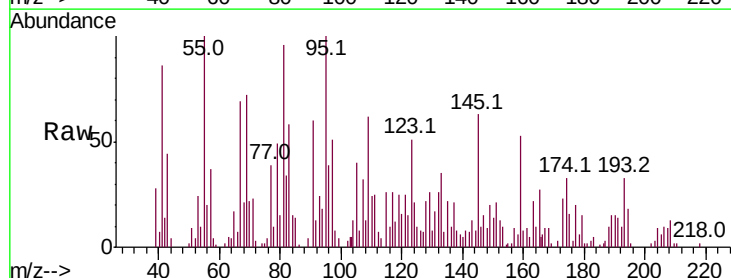
Acq: 07 Oct 2019 18:12

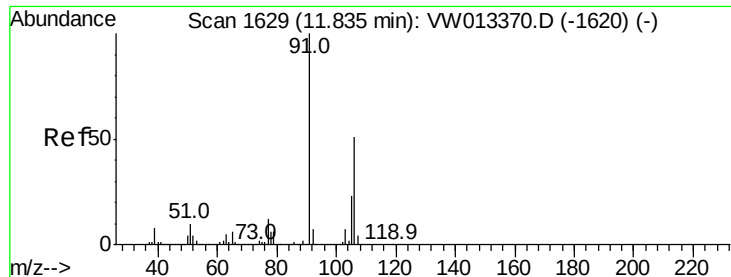
Tgt Ion: 91 Resp: 1264

Ion Ratio Lower Upper

91 100

106 0.0 24.9 37.3#

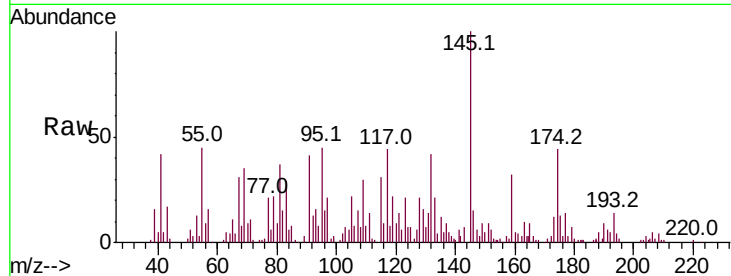




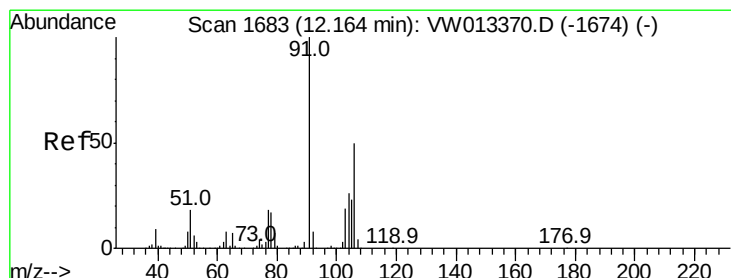
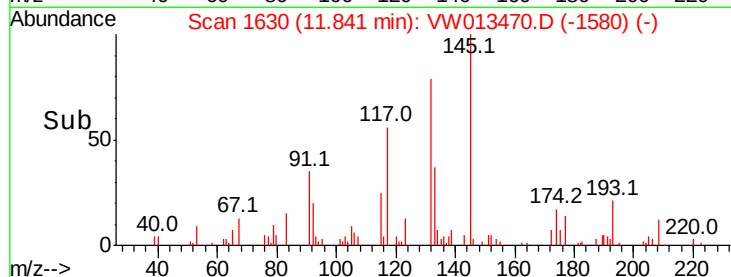
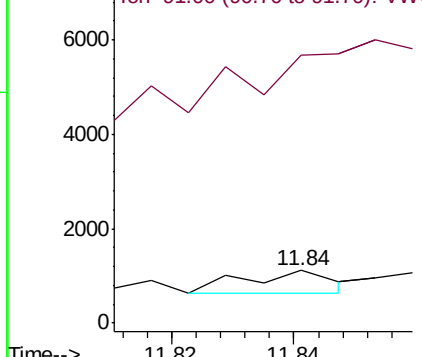
#68
m/p-Xylenes
Concen: 1.905 ug/l
RT: 11.84 min Scan# 1630
Delta R.T. 0.01 min
Lab File: VW013470.D
Acq: 07 Oct 2019 18:12

Instrument :
MSVOA_W
ClientSampleId :

Tot Ion:106 Resp: 480
Ion Ratio Lower Upper
106 100
91 2633.1 157.9 236.9#

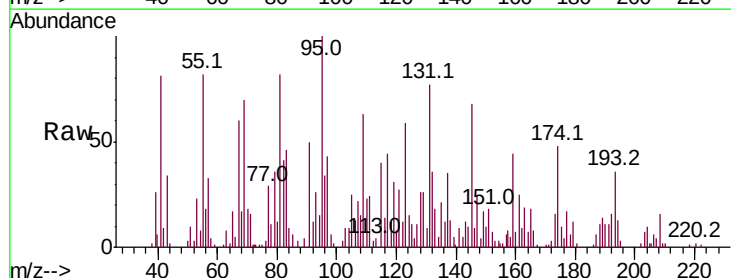


Abundance Ion 106.00 (105.70 to 106.70): V
Ion 91.00 (90.70 to 91.70): VW

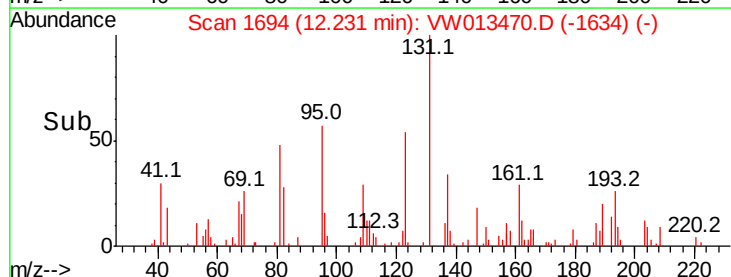
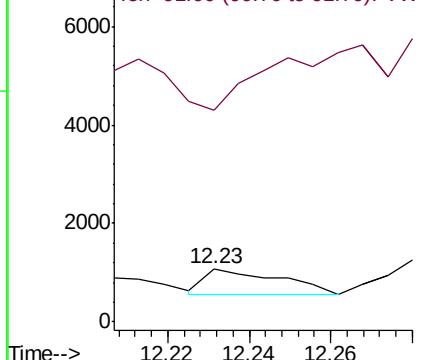


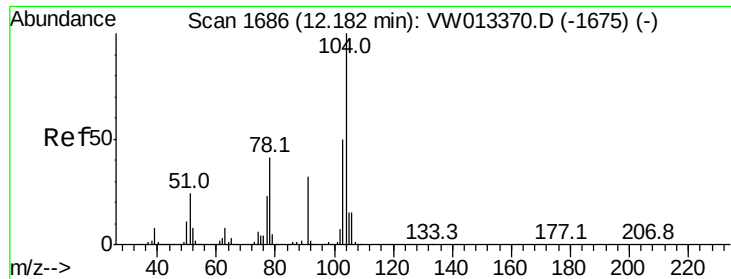
#69
o-Xylene
Concen: 2.880 ug/l
RT: 12.23 min Scan# 1694
Delta R.T. 0.07 min
Lab File: VW013470.D
Acq: 07 Oct 2019 18:12

Tgt Ion:106 Resp: 671
Ion Ratio Lower Upper
106 100
91 294.5 106.5 319.5



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





#70

Stvrene

Concen: 9.580 ug/l

RT: 12.14 min Scan# 1679

Delta R.T. -0.04 min

Lab File: VW013470.D

Acq: 07 Oct 2019 18:12

Instrument :

MSVOA_W

ClientSampled :

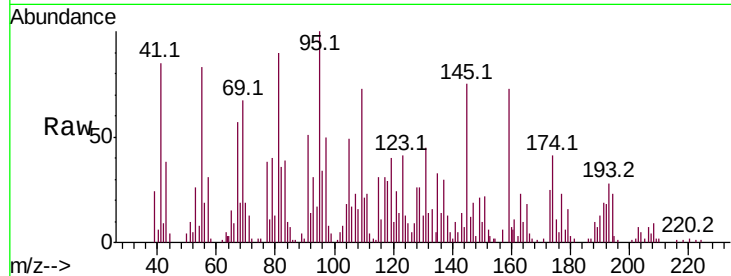
Tot Ion:104 Resp: 3815

Ion Ratio Lower Upper

104 100

78 0.0 38.4 57.6#

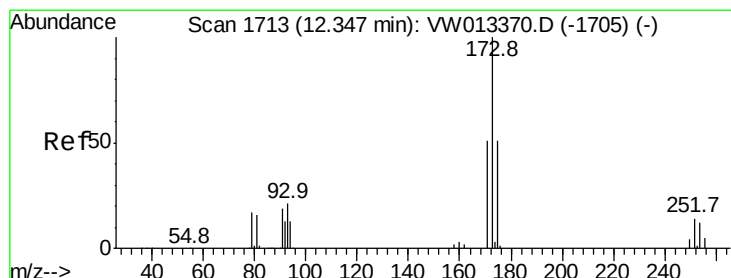
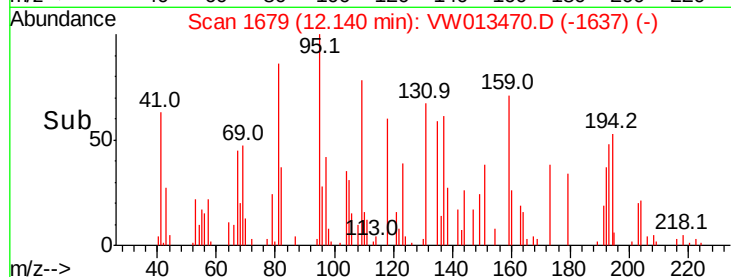
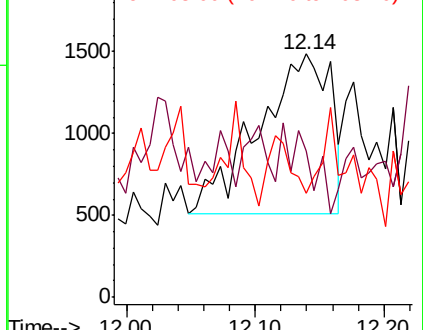
103 0.0 43.3 64.9#



Abundance Ion 104.00 (103.70 to 104.70): V

2000 Ion 78.00 (77.70 to 78.70): VW

Ion 103.00 (102.70 to 103.70): V



#71

Bromoform

Concen: 139.675 ug/l

RT: 12.30 min Scan# 1706

Delta R.T. -0.04 min

Lab File: VW013470.D

Acq: 07 Oct 2019 18:12

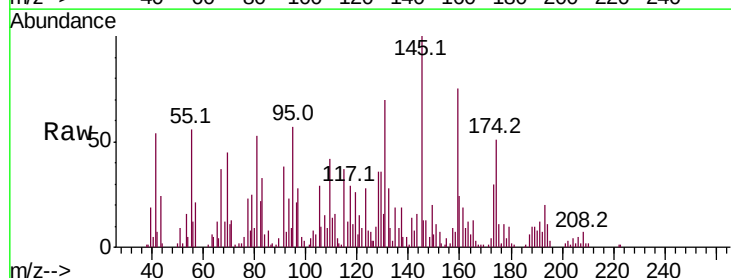
Tgt Ion:173 Resp: 9394

Ion Ratio Lower Upper

173 100

175 0.0 24.3 73.0#

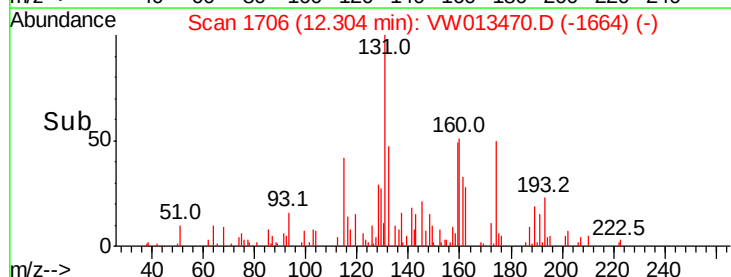
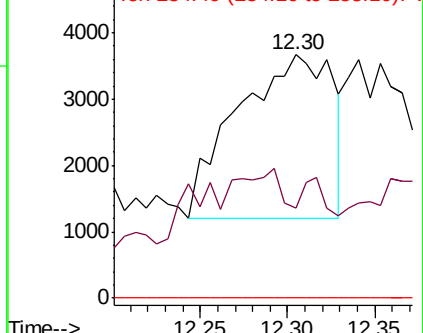
254 0.0 0.1 0.1#

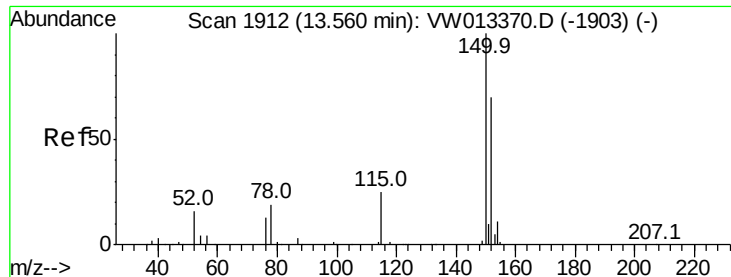


Abundance Ion 172.70 (172.40 to 173.40): V

5000 Ion 174.70 (174.40 to 175.40): V

Ion 254.40 (254.10 to 255.10): V



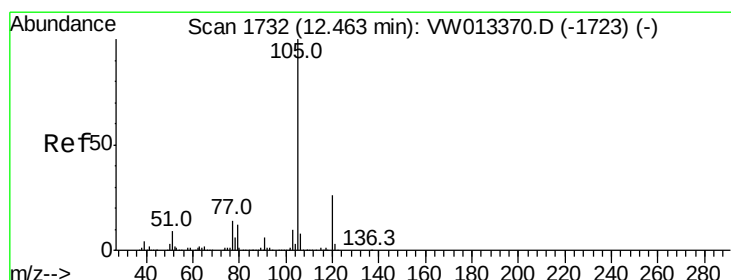
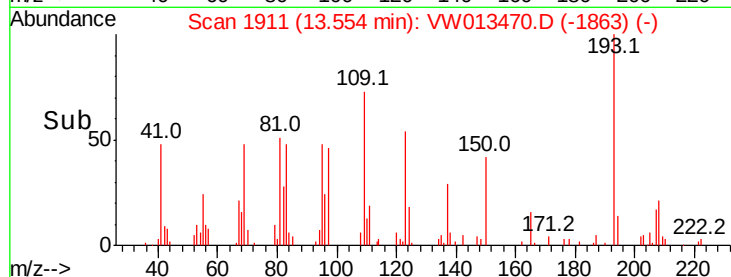
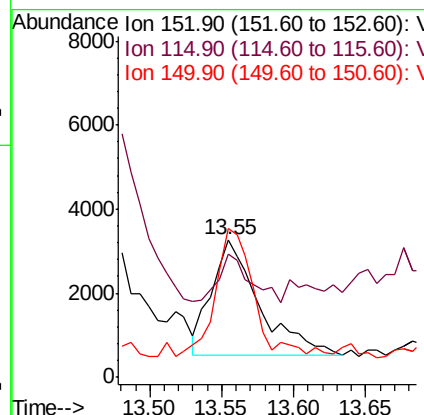
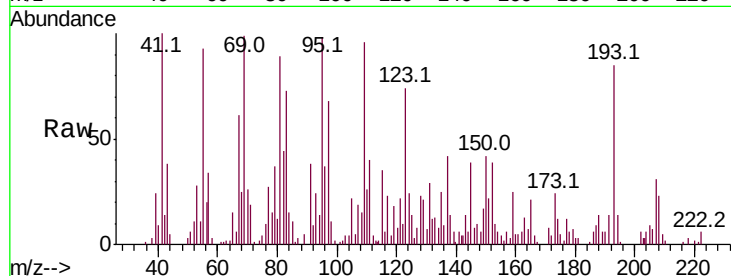


#72

1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 13.55 min Scan# 1911
Delta R.T. -0.01 min
Lab File: VW013470.D
Acq: 07 Oct 2019 18:12

Instrument :
MSVOA_W
ClientSampleId :

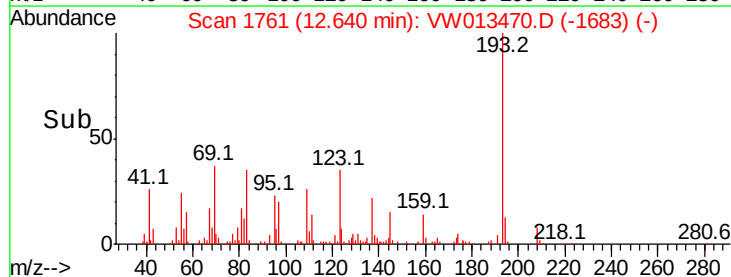
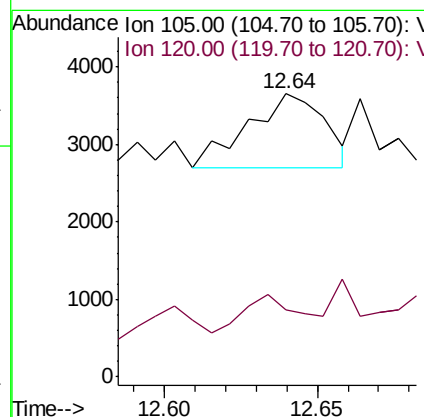
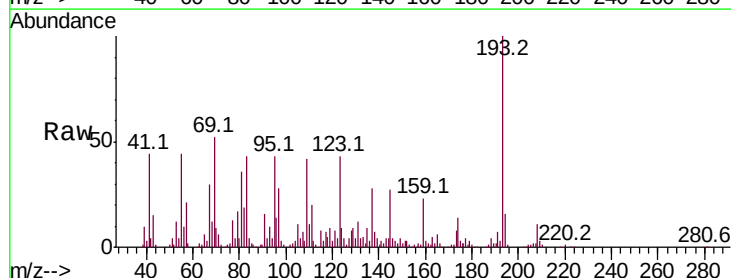
Tot Ion:152 Resp: 6244
Ion Ratio Lower Upper
152 100
115 27.8 27.3 81.9
150 90.2 0.0 349.0

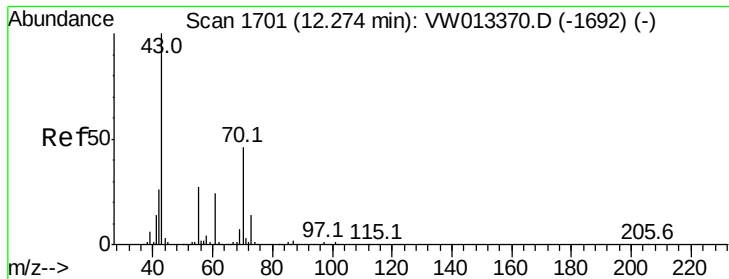


#73

Isopropylbenzene
Concen: 3.670 ug/l
RT: 12.64 min Scan# 1761
Delta R.T. 0.18 min
Lab File: VW013470.D
Acq: 07 Oct 2019 18:12

Tgt Ion:105 Resp: 1676
Ion Ratio Lower Upper
105 100
120 37.6 13.4 40.1





#74

N-amvl acetate

Concen: 12.654 ug/l

RT: 12.29 min Scan# 1703

Delta R.T. 0.01 min

Lab File: VW013470.D

Acq: 07 Oct 2019 18:12

Instrument :

MSVOA_W

ClientSampled :

Tot Ion: 43 Resp: 1230

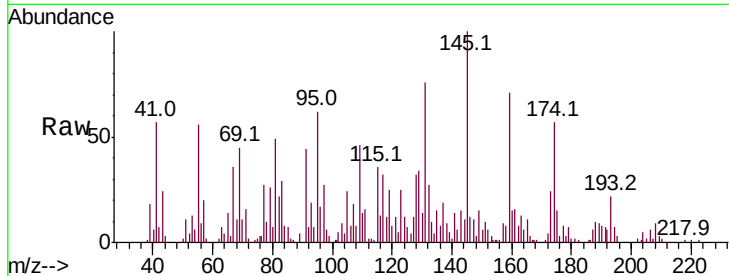
Ion Ratio Lower Upper

43 100

70 47.7 35.1 52.7

55 117.1 19.9 29.9#

61 0.0 19.5 29.3#



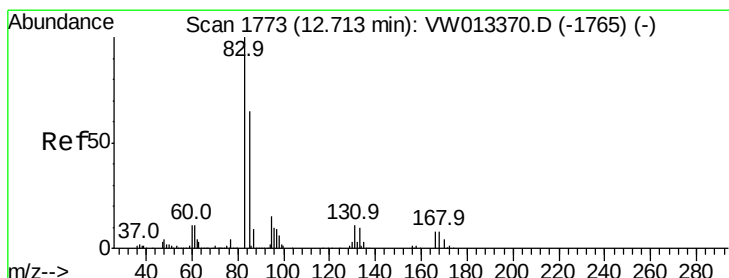
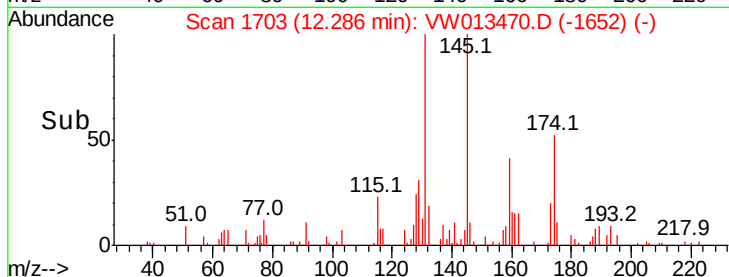
Abundance Ion 43.00 (42.70 to 43.70): VW

Ion 70.00 (69.70 to 70.70): VW

Ion 55.00 (54.70 to 55.70): VW

Ion 61.00 (60.70 to 61.70): VW

Time--> 12.25 12.30



#75

1,1,2,2-Tetrachloroethane

Concen: 945.819 ug/l

RT: 12.62 min Scan# 1758

Delta R.T. -0.09 min

Lab File: VW013470.D

Acq: 07 Oct 2019 18:12

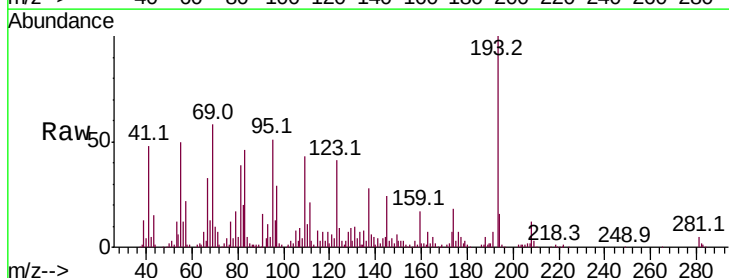
Tgt Ion: 83 Resp: 73117

Ion Ratio Lower Upper

83 100

131 3.6 5.4 16.2#

85 0.0 31.9 95.9#

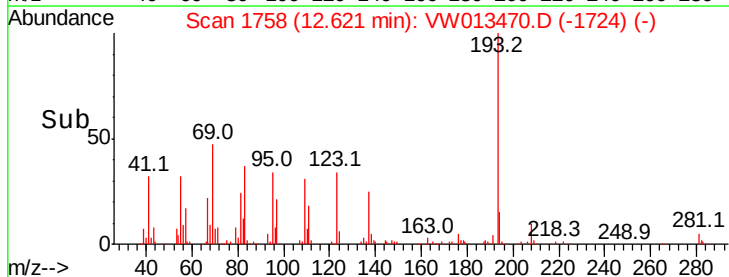


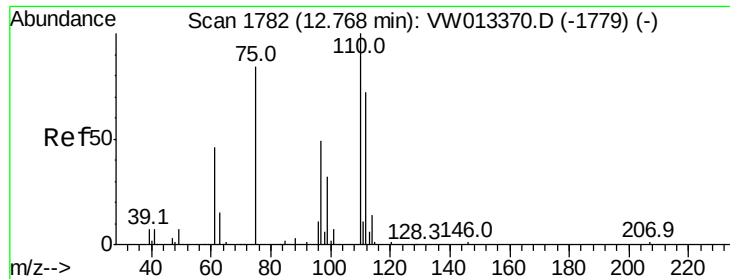
Abundance Ion 82.90 (82.60 to 83.60): VW

Ion 130.80 (130.50 to 131.50): V

Ion 84.90 (84.60 to 85.60): VW

Time--> 12.60 12.80

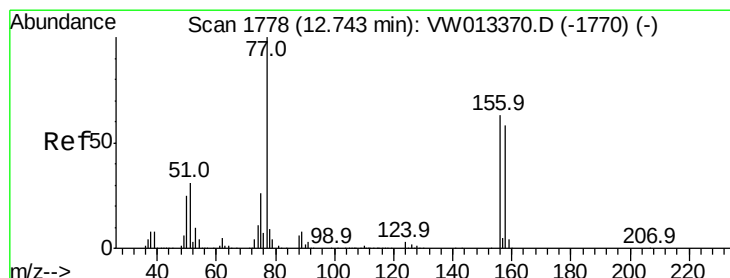
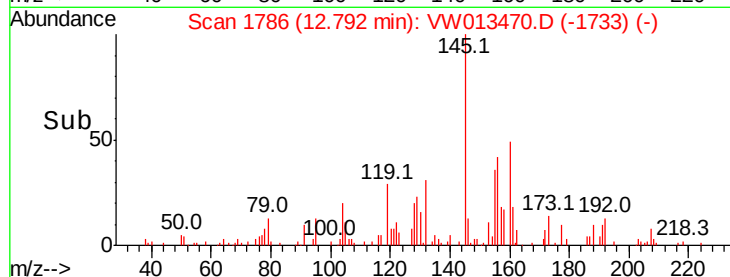
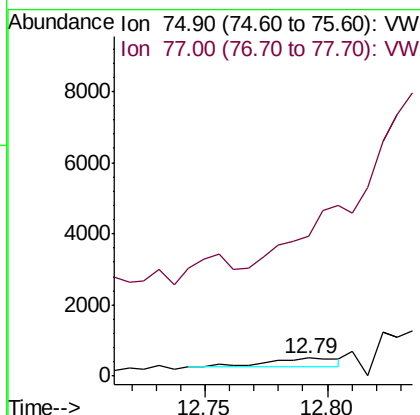
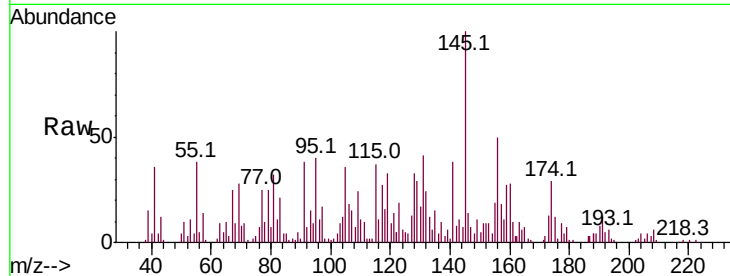




#76
 1,2,3-Trichloropropane
 Concen: 9.208 ug/l
 RT: 12.79 min Scan# 1786
 Delta R.T. 0.03 min
 Lab File: VW013470.D
 Acq: 07 Oct 2019 18:12

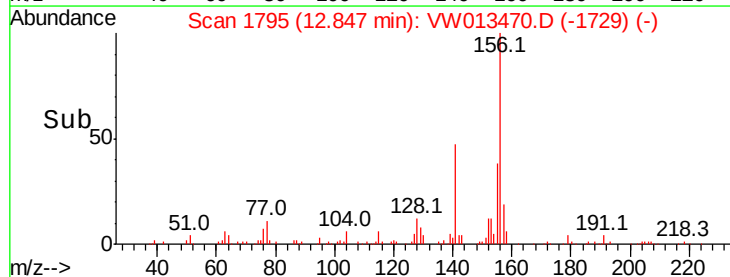
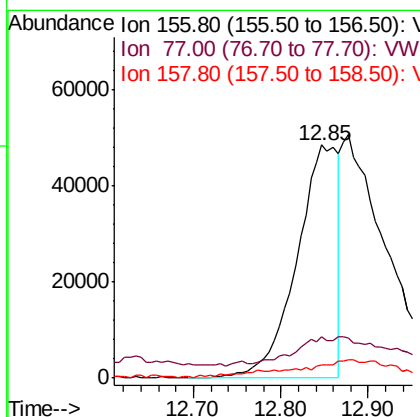
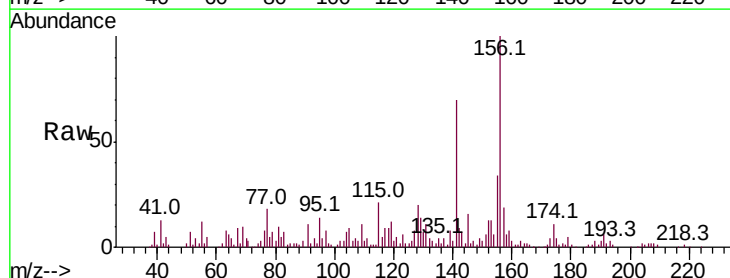
Instrument :
 MSVOA_W
 ClientSampled :

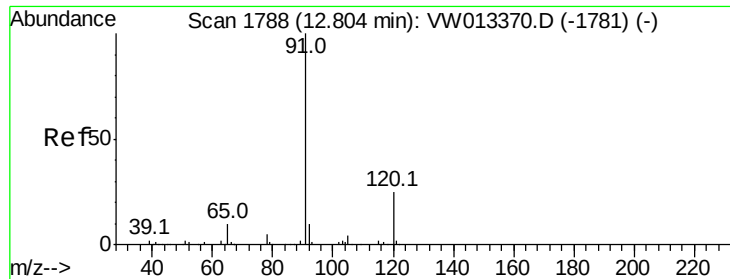
Tot Ion: 75 Resp: 511
 Ion Ratio Lower Upper
 75 100
 77 0.0 0.0 0.0



#77
 Bromobenzene
 Concen: 1442.571 ug/l
 RT: 12.85 min Scan# 1795
 Delta R.T. 0.10 min
 Lab File: VW013470.D
 Acq: 07 Oct 2019 18:12

Tgt Ion: 156 Resp: 158207
 Ion Ratio Lower Upper
 156 100
 77 8.8 85.7 257.1#
 158 0.0 48.1 144.4#





#78

n-propylbenzene

Concen: 5.402 ug/l

RT: 12.77 min Scan# 1783

Delta R.T. -0.03 min

Lab File: VW013470.D

Acq: 07 Oct 2019 18:12

Instrument :

MSVOA_W

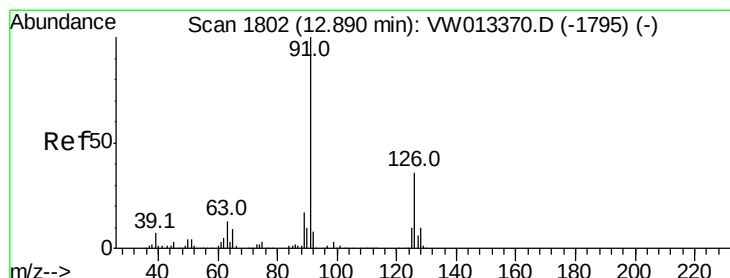
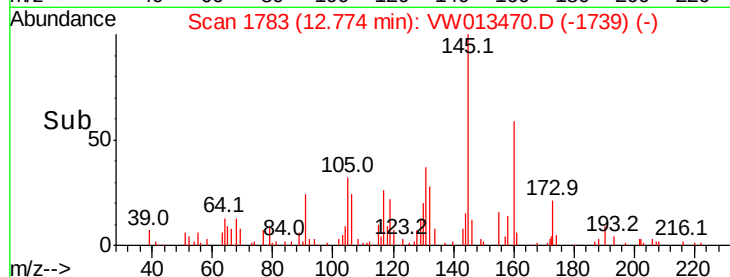
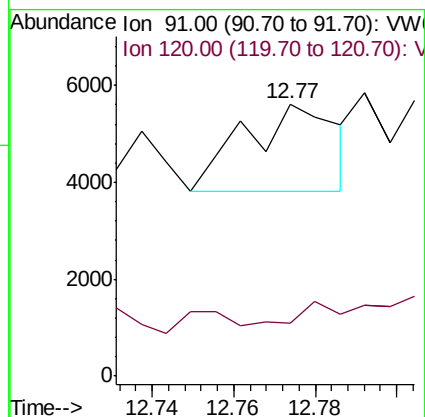
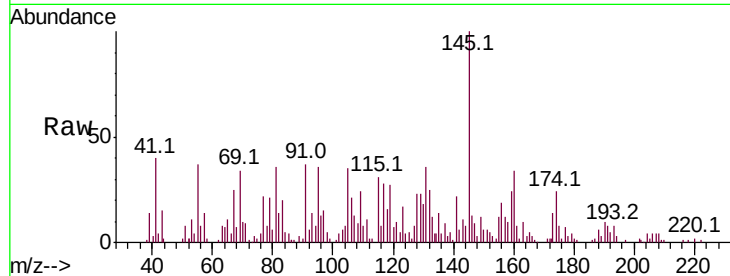
ClientSampleId :

Tot Ion: 91 Resp: 2838

Ion Ratio Lower Upper

91 100

120 13.8 11.7 35.1



#79

2-Chlorotoluene

Concen: 9.726 ug/l

RT: 12.77 min Scan# 1783

Delta R.T. -0.12 min

Lab File: VW013470.D

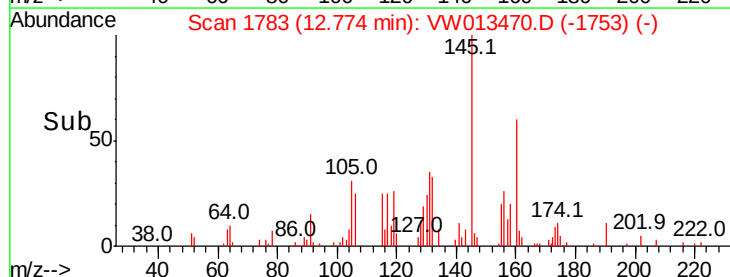
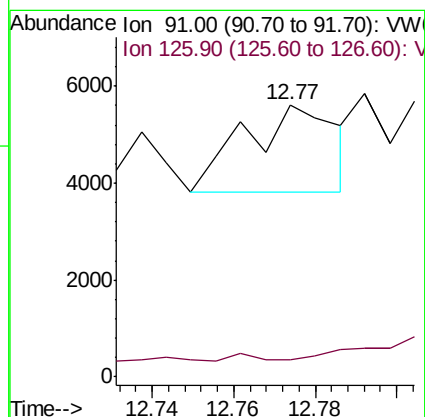
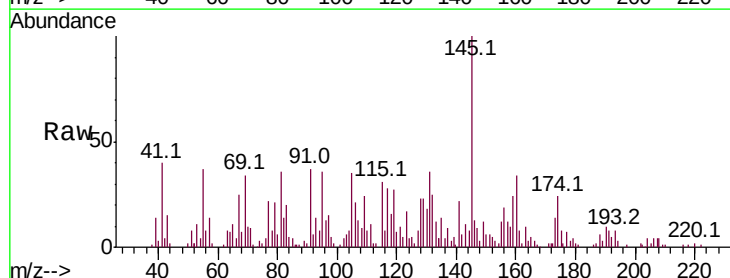
Acq: 07 Oct 2019 18:12

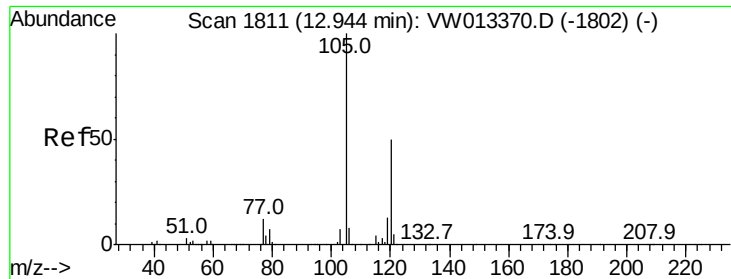
Tgt Ion: 91 Resp: 2838

Ion Ratio Lower Upper

91 100

126 36.5 17.2 51.5

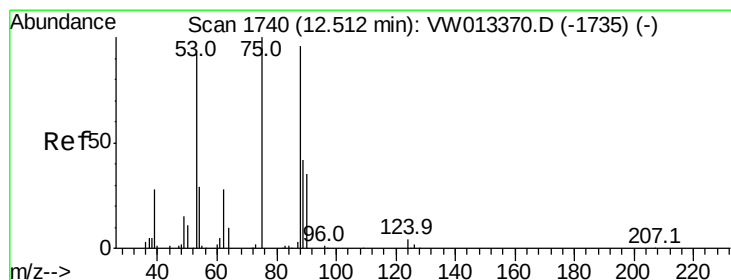
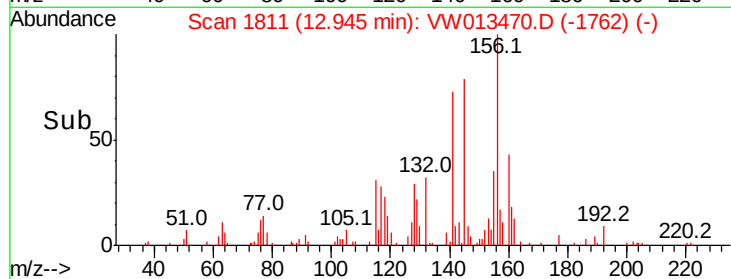
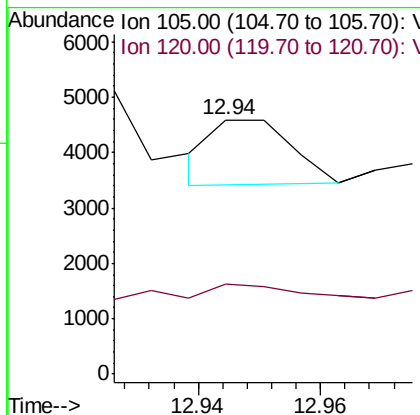
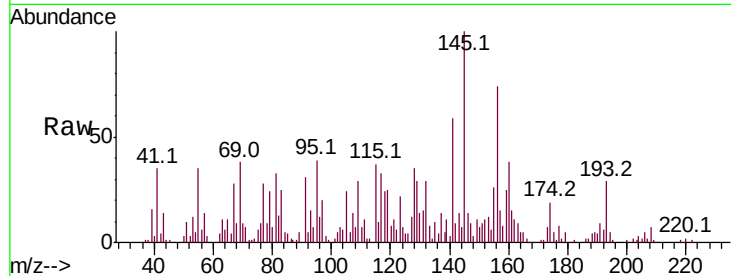




#80
 1,3,5-Trimethylbenzene
 Concen: 2.770 ug/l
 RT: 12.94 min Scan# 1811
 Delta R.T. 0.00 min
 Lab File: VW013470.D
 Acq: 07 Oct 2019 18:12

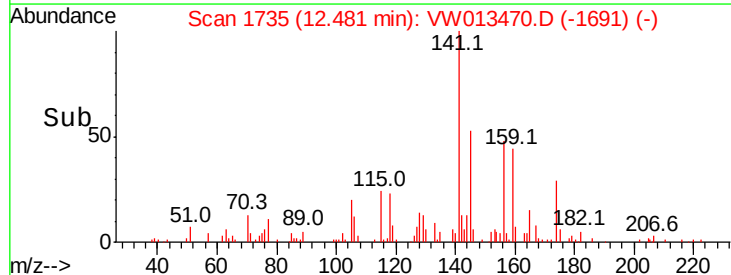
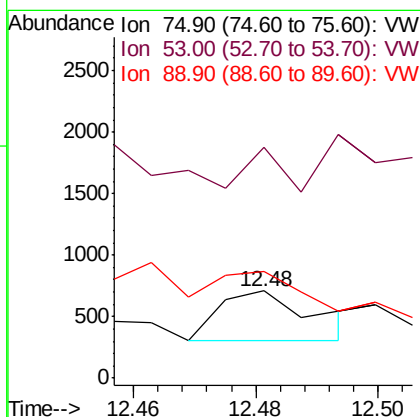
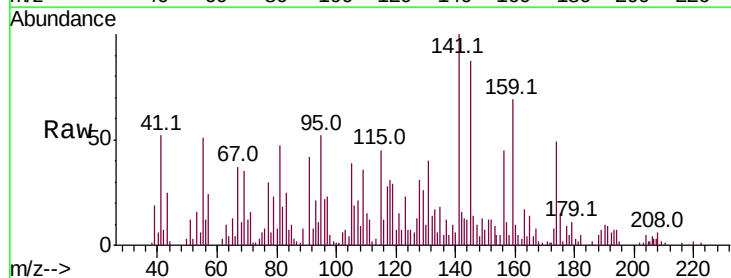
Instrument :
 MSVOA_W
 ClientSampleId :

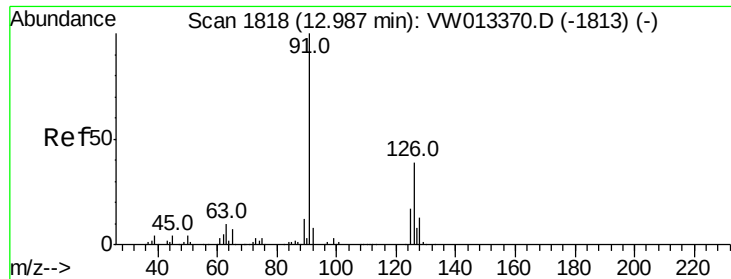
Tot Ion:105 Resp: 1051
 Ion Ratio Lower Upper
 105 100
 120 0.0 24.9 74.8#



#81
 trans-1,4-Dichloro-2-butene
 Concen: 18.978 ug/l
 RT: 12.48 min Scan# 1735
 Delta R.T. -0.03 min
 Lab File: VW013470.D
 Acq: 07 Oct 2019 18:12

Tgt Ion: 75 Resp: 421
 Ion Ratio Lower Upper
 75 100
 53 179.1 76.6 114.8#
 89 0.0 33.5 50.3#

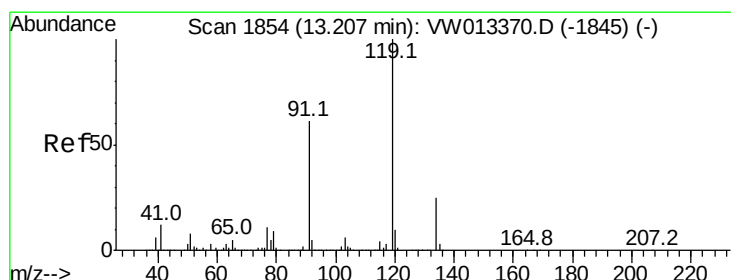
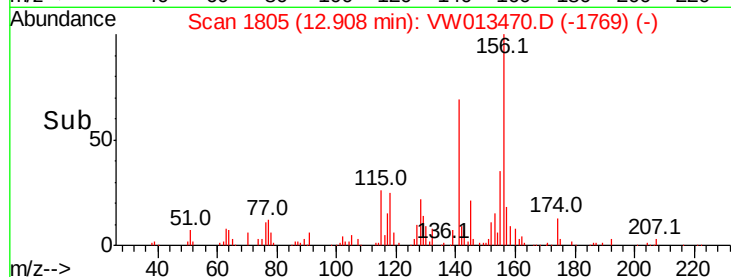
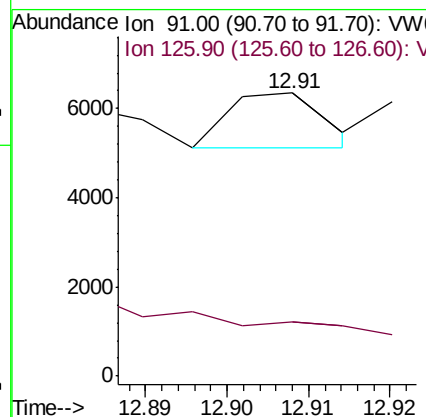
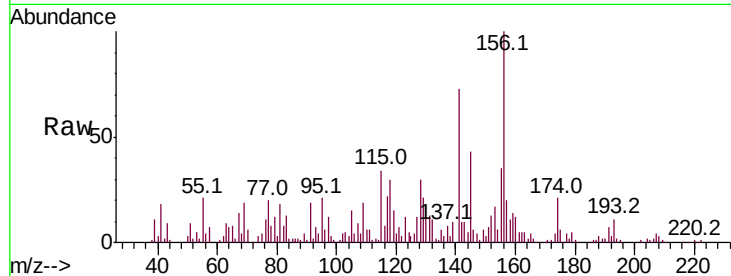




#82
4-Chlorotoluene
Concen: 3.307 ug/l
RT: 12.91 min Scan# 1805
Delta R.T. -0.08 min
Lab File: VW013470.D
Acq: 07 Oct 2019 18:12

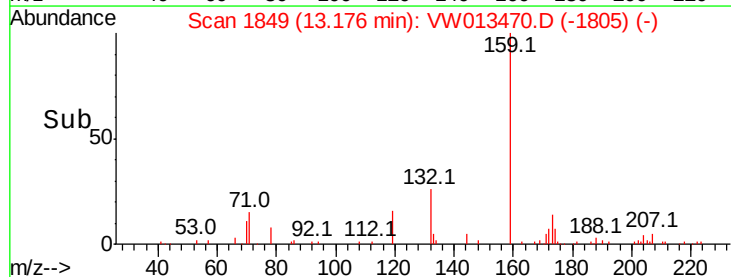
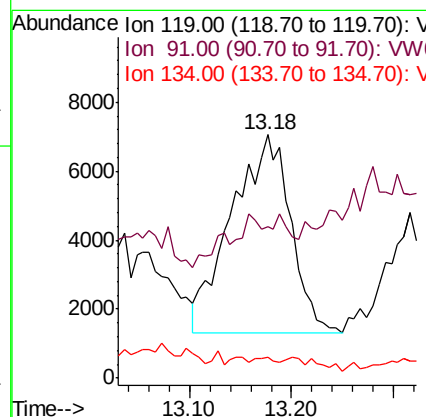
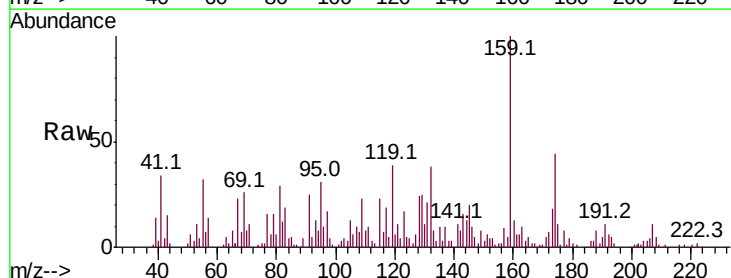
Instrument :
MSVOA_W
ClientSampleId :

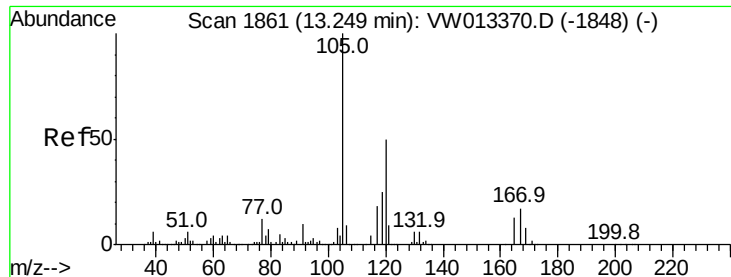
Tot Ion: 91 Resp: 1011
Ion Ratio Lower Upper
91 100
126 0.0 17.3 51.7#



#83
tert-Butylbenzene
Concen: 69.865 ug/l
RT: 13.18 min Scan# 1849
Delta R.T. -0.03 min
Lab File: VW013470.D
Acq: 07 Oct 2019 18:12

Tgt Ion: 119 Resp: 23153
Ion Ratio Lower Upper
119 100
91 2.9 30.7 92.1#
134 0.0 12.6 37.6#

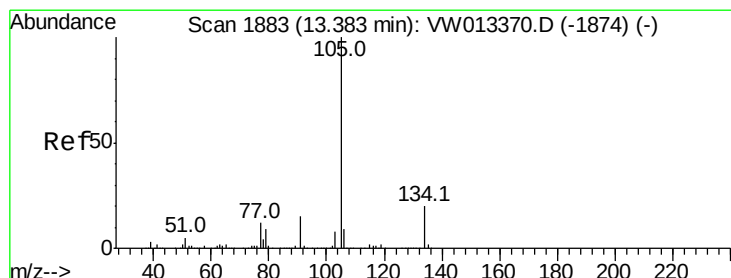
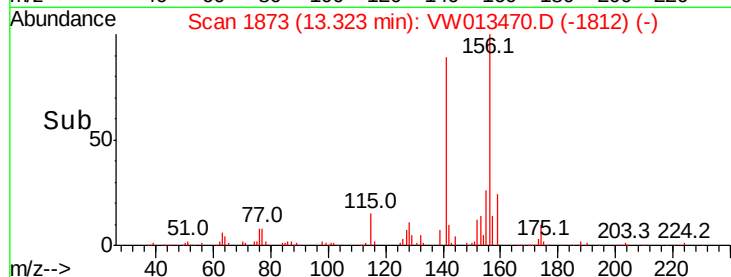
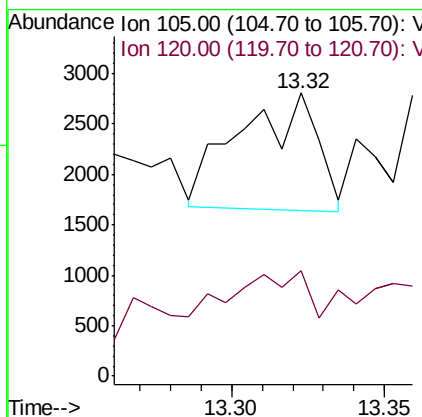
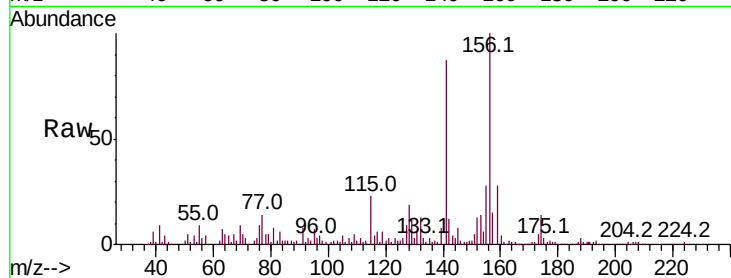




#84
 1,2,4-Trimethylbenzene
 Concen: 5.411 ug/l
 RT: 13.32 min Scan# 1873
 Delta R.T. 0.07 min
 Lab File: VW013470.D
 Acq: 07 Oct 2019 18:12

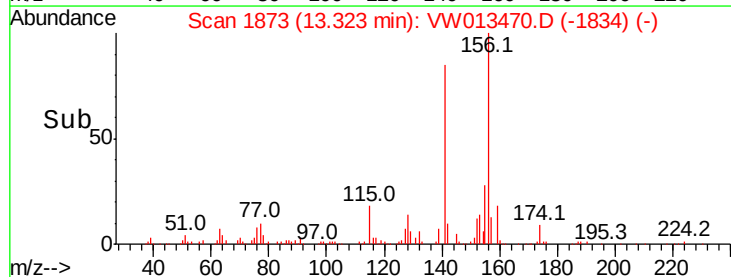
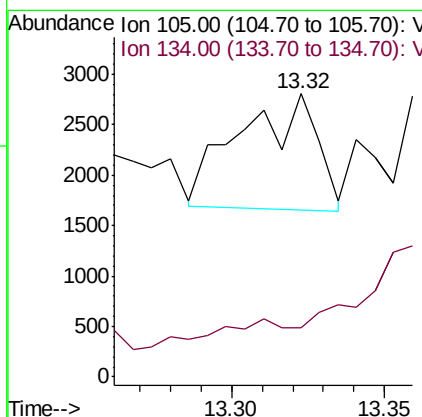
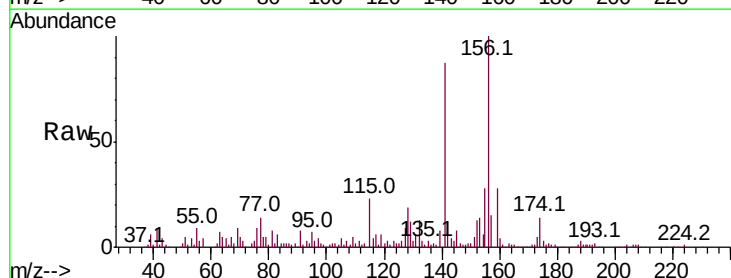
Instrument :
 MSVOA_W
 ClientSampleId :

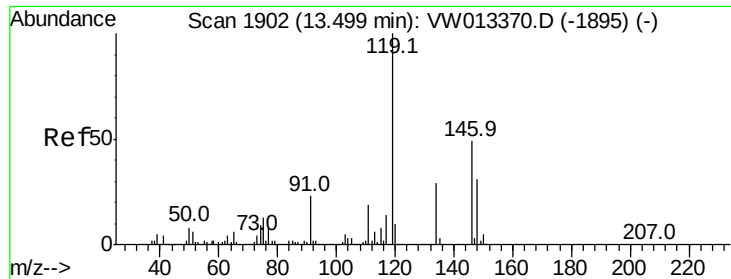
Tot Ion:105 Resp: 2041
 Ion Ratio Lower Upper
 105 100
 120 33.9 23.4 70.3



#85
 sec-Butylbenzene
 Concen: 4.406 ug/l
 RT: 13.32 min Scan# 1873
 Delta R.T. -0.06 min
 Lab File: VW013470.D
 Acq: 07 Oct 2019 18:12

Tgt Ion:105 Resp: 2013
 Ion Ratio Lower Upper
 105 100
 134 22.4 10.3 30.8

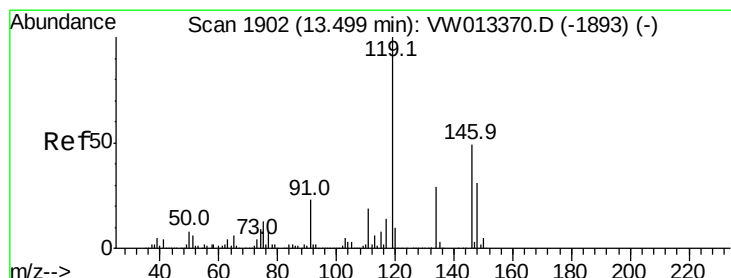
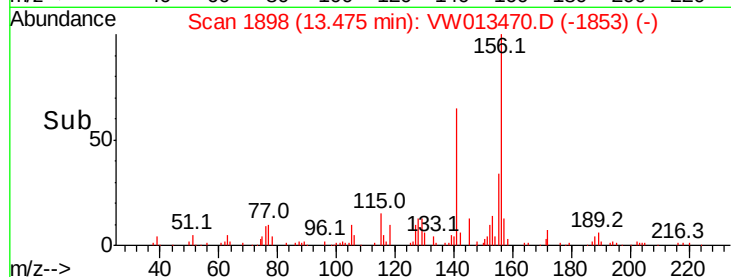
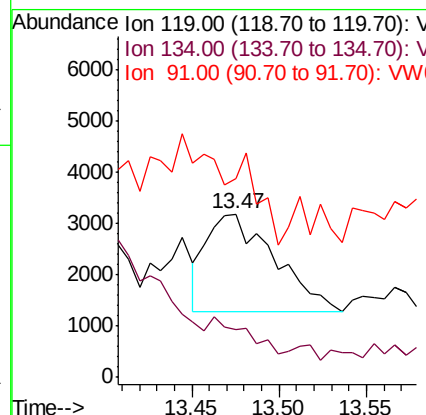
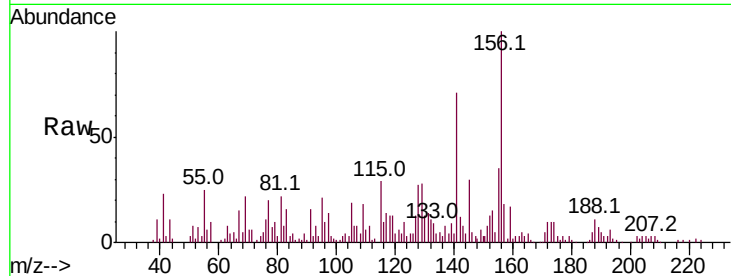




#86
 p-Isopropyltoluene
 Concen: 11.985 ug/l
 RT: 13.47 min Scan# 1898
 Delta R.T. -0.02 min
 Lab File: VW013470.D
 Acq: 07 Oct 2019 18:12

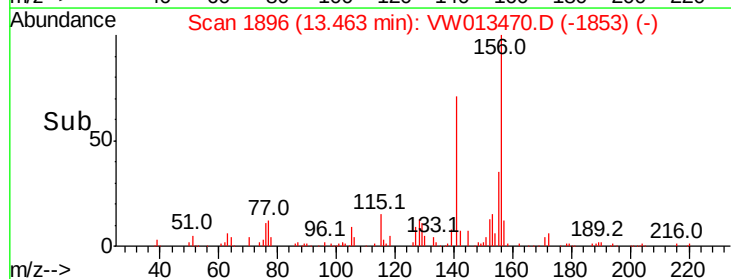
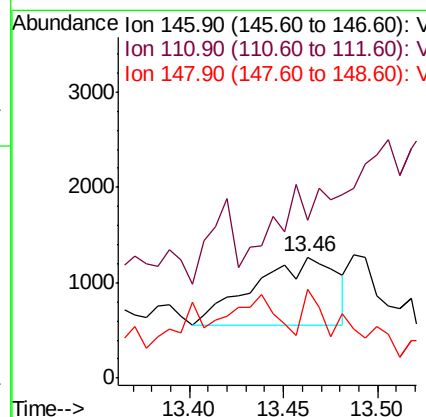
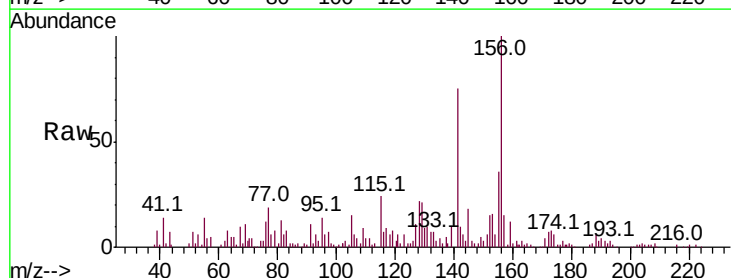
Instrument :
 MSVOA_W
 ClientSampled :

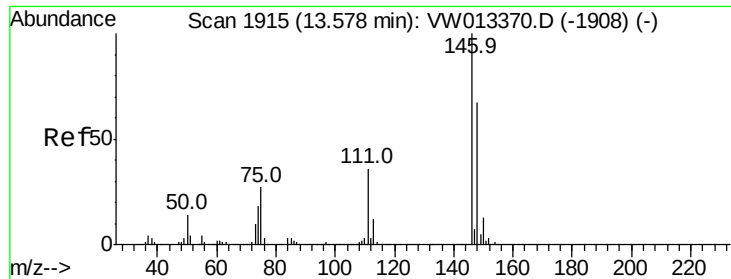
Tot Ion:119 Resp: 5075
 Ion Ratio Lower Upper
 119 100
 134 0.0 13.3 39.8#
 91 0.0 10.8 32.4#



#87
 1,3-Dichlorobenzene
 Concen: 10.590 ug/l
 RT: 13.46 min Scan# 1896
 Delta R.T. -0.04 min
 Lab File: VW013470.D
 Acq: 07 Oct 2019 18:12

Tgt Ion:146 Resp: 2185
 Ion Ratio Lower Upper
 146 100
 111 0.0 18.9 56.9#
 148 49.5 31.9 95.5





#88

1,4-Dichlorobenzene

Concen: 1.007 ug/l

RT: 13.58 min Scan# 1916

Delta R.T. 0.01 min

Lab File: VW013470.D

Acq: 07 Oct 2019 18:12

Instrument :

MSVOA_W

ClientSampleId :

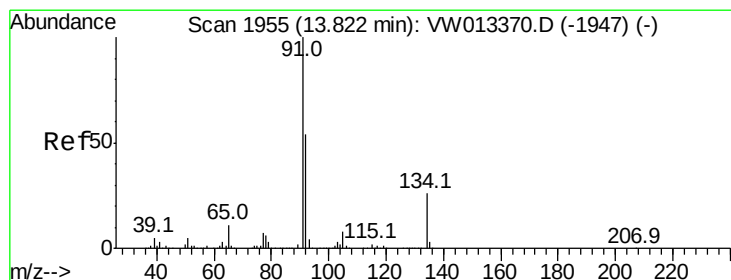
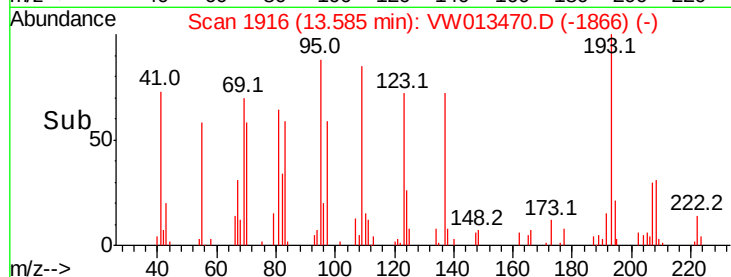
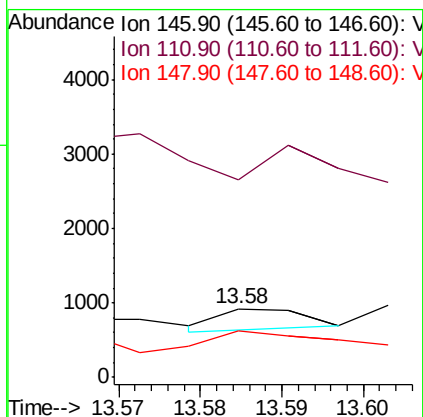
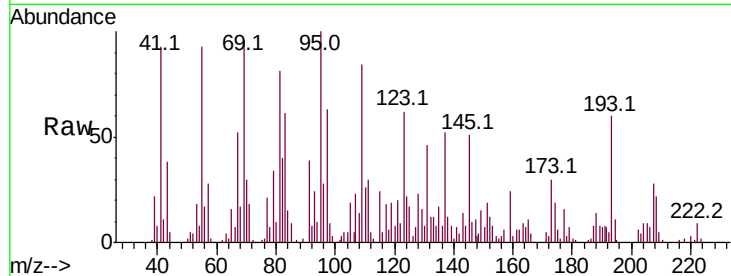
Tot Ion:146 Resp: 208

Ion Ratio Lower Upper

146 100

111 0.0 18.4 55.0#

148 160.1 32.1 96.3#



#89

n-Butylbenzene

Concen: 3.112 ug/l

RT: 13.93 min Scan# 1972

Delta R.T. 0.10 min

Lab File: VW013470.D

Acq: 07 Oct 2019 18:12

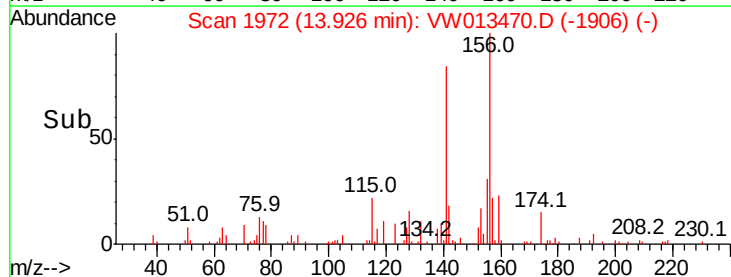
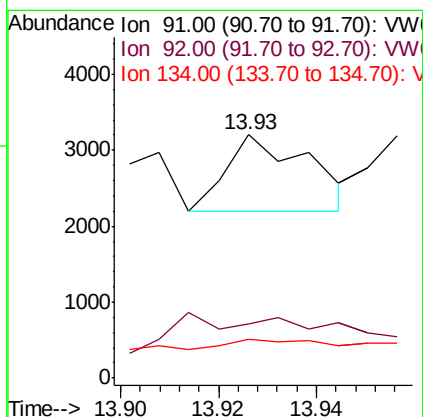
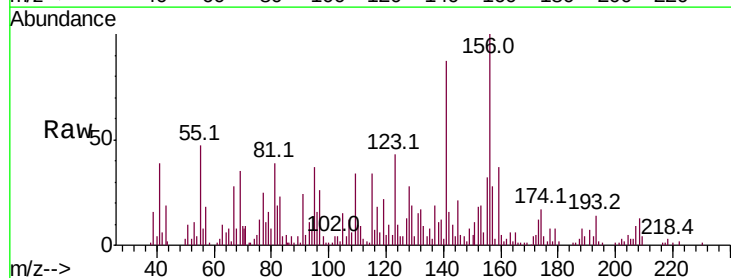
Tgt Ion: 91 Resp: 1188

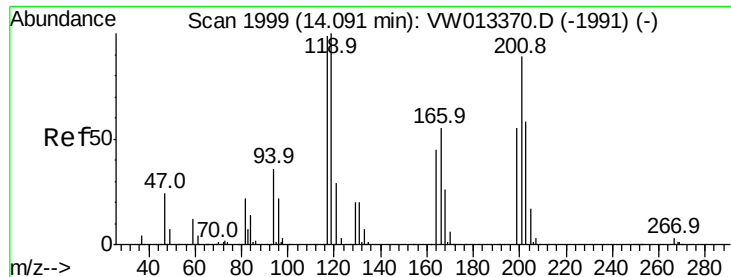
Ion Ratio Lower Upper

91 100

92 44.7 27.6 82.8

134 22.7 13.7 41.1





#90

Hexachloroethane

Concen: 7.633 ug/l

RT: 14.33 min Scan# 2038

Delta R.T. 0.24 min

Lab File: VW013470.D

Acq: 07 Oct 2019 18:12

Instrument :

MSVOA_W

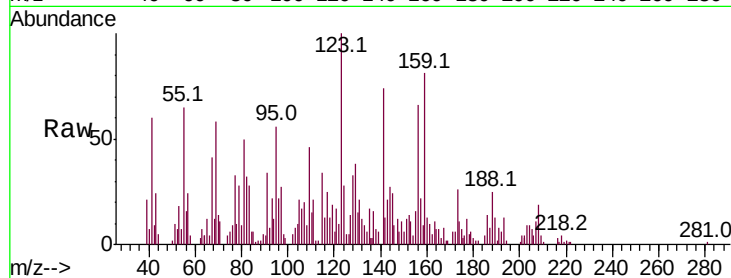
ClientSampleId :

Tot Ion:117 Resp: 534

Ion Ratio Lower Upper

117 100

201 52.6 44.5 133.5



Abundance Ion 116.80 (116.50 to 117.50): V

Ion 200.70 (200.40 to 201.40): V

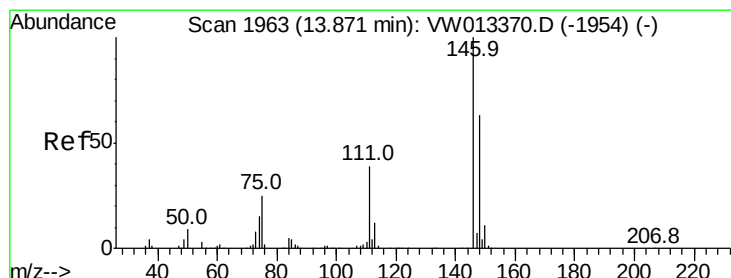
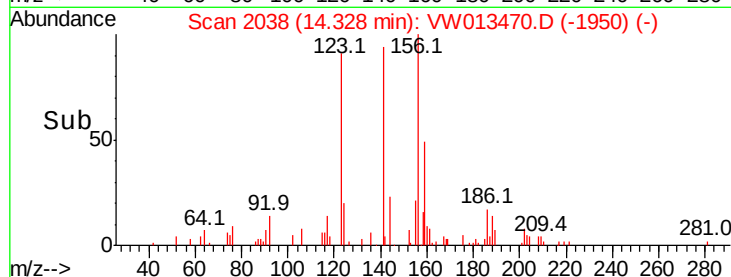
14.33

1000

500

0

Time-->



#91

1,2-Dichlorobenzene

Concen: 1.853 ug/l

RT: 13.85 min Scan# 1960

Delta R.T. -0.02 min

Lab File: VW013470.D

Acq: 07 Oct 2019 18:12

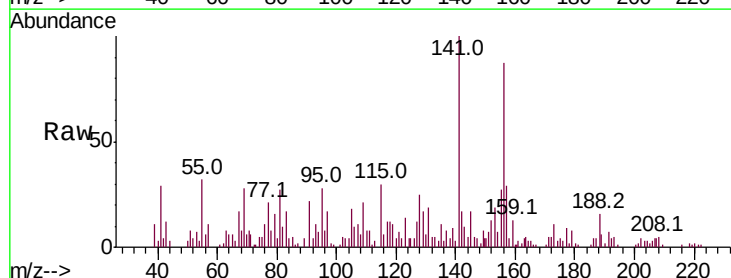
Tgt Ion:146 Resp: 338

Ion Ratio Lower Upper

146 100

111 0.0 20.1 60.3#

148 0.0 32.0 96.0#



Abundance Ion 145.90 (145.60 to 146.60): V

Ion 110.90 (110.60 to 111.60): V

Ion 147.90 (147.60 to 148.60): V

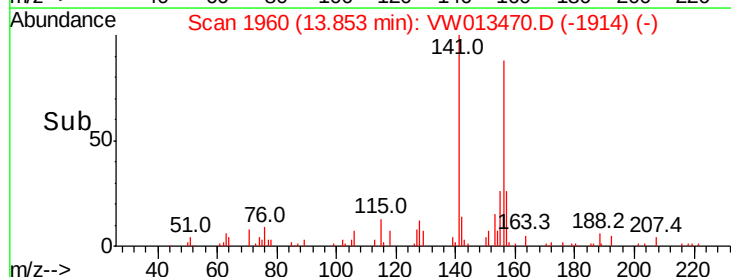
13.85

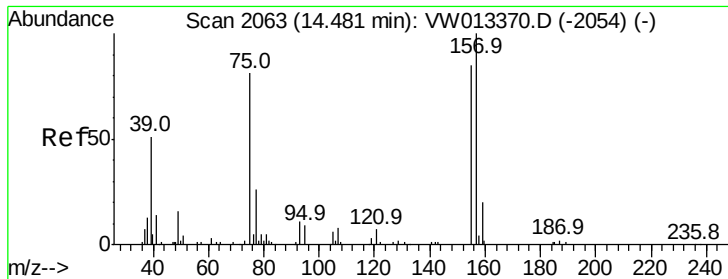
1000

500

0

Time-->





#92

1,2-Dibromo-3-Chloropropane

Concen: 28.366 ug/l

RT: 14.66 min Scan# 2093

Delta R.T. 0.18 min

Lab File: VW013470.D

Acq: 07 Oct 2019 18:12

Instrument :

MSVOA_W

ClientSampleId :

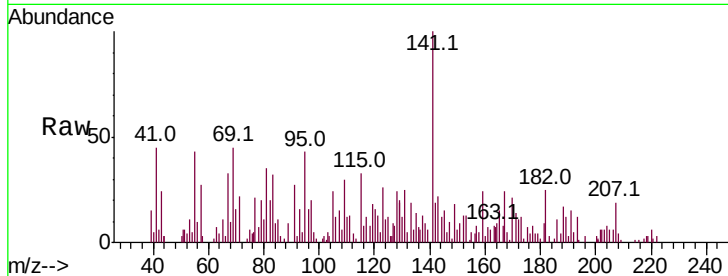
Tot Ion: 75 Resp: 328

Ion Ratio Lower Upper

75 100

155 80.8 46.1 138.3

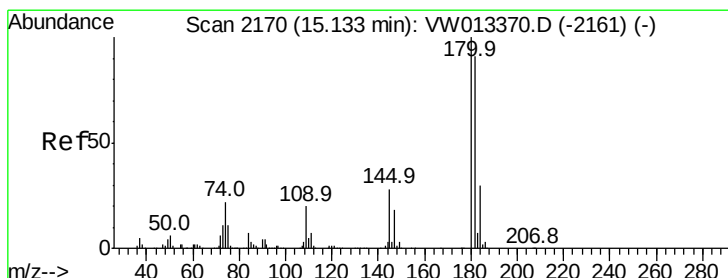
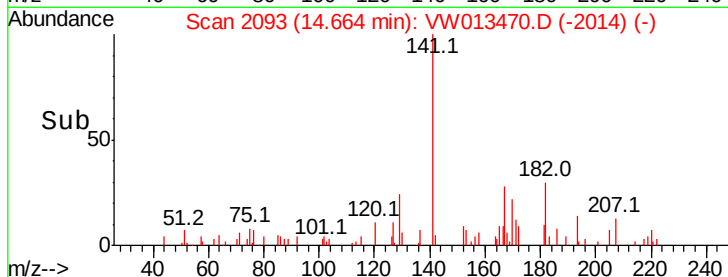
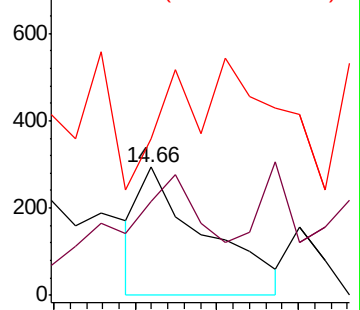
157 155.2 60.4 181.2



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



#93

1,2,4-Trichlorobenzene

Concen: 2.307 ug/l

RT: 15.12 min Scan# 2168

Delta R.T. -0.01 min

Lab File: VW013470.D

Acq: 07 Oct 2019 18:12

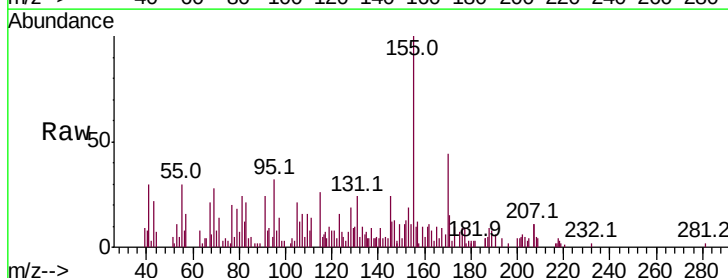
Tgt Ion: 180 Resp: 302

Ion Ratio Lower Upper

180 100

182 47.7 47.3 142.0

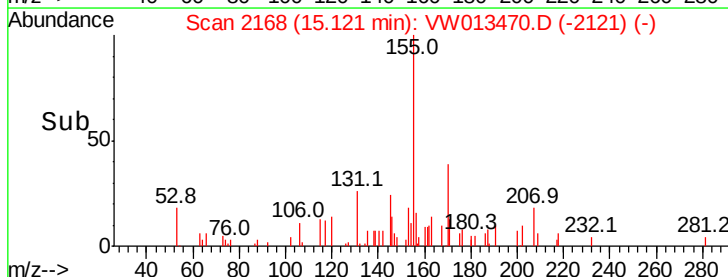
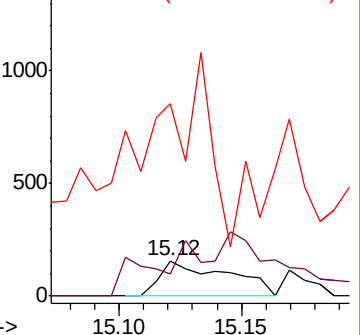
145 552.3 14.2 42.8#

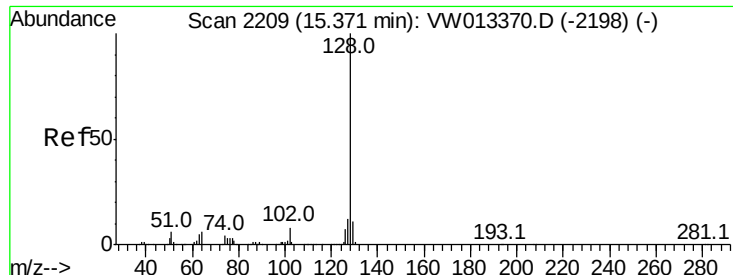


Abundance Ion 179.80 (179.50 to 180.50): V

Ion 181.80 (181.50 to 182.50): V

Ion 144.80 (144.50 to 145.50): V





#95

Naphthalene

Concen: 1.214 ug/l

RT: 15.36 min Scan# 2208

Delta R.T. -0.01 min

Lab File: VW013470.D

Acq: 07 Oct 2019 18:12

Instrument :

MSVOA_W

ClientSampleId :

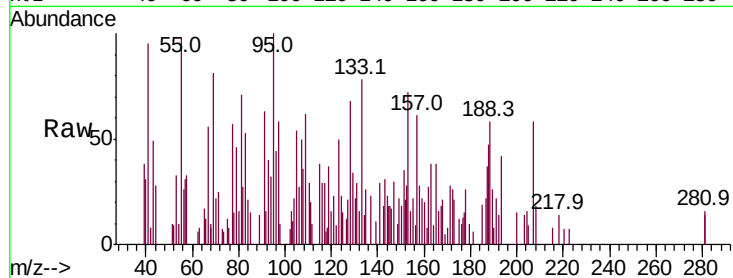
Tot Ion:128 Resp: 268

Ion Ratio Lower Upper

128 100

127 0.0 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

15.36

600

400

200

0

15.34 15.36

Time-->

