

Data File : VW007159.D
Acq On : 03 Dec 2018 11:40
Operator : SY/AP
Sample : J6077-05
Misc : 4.55G/10ML/MSVOA_W/SOIL
ALS Vial : 1 Sample Multiplier: 1

Instrument :
MSVOA_W
ClientSampleId :
F9Y38

Quant Time: Dec 04 03:17:04 2018
Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_W\METHOD\SOM2WLM113018S.M
Quant Title : VOC Analysis
QLast Update : Tue Dec 04 03:14:20 2018
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Difluorobenzene	8.85	114	162343	25.00	ug/L	0.00
28) Chlorobenzene-d5	11.63	117	144420	25.00	ug/L	0.00
60) 1,4-Dichlorobenzene-d4	13.56	152	72168	25.00	ug/L	0.00

System Monitoring Compounds

4) Vinyl Chloride-d3	2.35	65	26473	19.17	ug/L	0.00
Spiked Amount	25.000	Range	30 - 150	Recovery	=	76.68%
7) Chloroethane-d5	2.89	69	21396	21.60	ug/L	0.00
Spiked Amount	25.000	Range	30 - 150	Recovery	=	86.40%
10) 1,1-Dichloroethene-d2	4.02	63	55155	15.33	ug/L	0.00
Spiked Amount	25.000	Range	45 - 110	Recovery	=	61.32%
20) 2-Butanone-d5	7.08	46	19466	34.80	ug/L	0.00
Spiked Amount	50.000	Range	20 - 135	Recovery	=	69.60%
24) Chloroform-d	7.65	84	73118	21.50	ug/L	0.00
Spiked Amount	25.000	Range	40 - 150	Recovery	=	86.00%
26) 1,2-Dichloroethane-d4	8.31	65	38635	19.63	ug/L	0.00
Spiked Amount	25.000	Range	70 - 130	Recovery	=	78.52%
29) Benzene-d6	8.28	84	172866	25.19	ug/L	0.00
Spiked Amount	25.000	Range	20 - 135	Recovery	=	100.76%
33) 1,2-Dichloropropane-d6	9.28	67	83982	42.72	ug/L	0.00
Spiked Amount	25.000	Range	70 - 120	Recovery	=	170.88%#
37) Toluene-d8	10.33	98	183600	25.30	ug/L	0.00
Spiked Amount	25.000	Range	30 - 130	Recovery	=	101.20%
38) trans-1,3-Dichloropropene-	10.58	79	22818	23.74	ug/L	0.00
Spiked Amount	25.000	Range	30 - 135	Recovery	=	94.96%
39) 2-Hexanone-d5	10.93	63	18561	40.28	ug/L	0.00
Spiked Amount	50.000	Range	20 - 135	Recovery	=	80.56%
48) 1,1,2,2-Tetrachloroethane-	12.69	84	36243	20.23	ug/L	0.00
Spiked Amount	25.000	Range	45 - 120	Recovery	=	80.92%
61) 1,2-Dichlorobenzene-d4	13.86	152	57386	21.19	ug/L	0.00
Spiked Amount	25.000	Range	75 - 120	Recovery	=	84.76%

Target Compounds

					Qvalue
3) Chloromethane	2.45	50	6142	2.964 ug/L	89
8) Chloroethane	2.92	64	413	0.413 ug/L #	44
13) Acetone	4.13	43	16887	43.097 ug/L	84
15) Methyl Acetate	4.75	43	41066	42.266 ug/L #	51
21) 2-Butanone	7.18	43	8952	14.882 ug/L	100
25) Chloroform	7.70	83	6782	1.891 ug/L #	50
27) 1,2-Dichloroethane	8.41	62	3068	1.290 ug/L #	33
30) Cyclohexane	7.96	56	202094	64.201 ug/L #	82
34) Benzene	8.33	78	1602613	214.146 ug/L	100
35) Trichloroethene	9.12	95	4576	2.255 ug/L #	15
36) Methylcyclohexane	9.34	83	472597	125.439 ug/L	93
40) 1,2-Dichloropropane	9.34	63	3513	1.957 ug/L #	1
41) Bromodichloromethane	9.62	83	9852	4.192 ug/L #	30
42) cis-1,3-Dichloropropene	10.04	75	1717	0.602 ug/L #	1
43) 4-Methyl-2-pentanone	10.21	43	2324	1.750 ug/L #	56
44) Toluene	10.39	91	589957	65.790 ug/L	99
46) 1,1,2-Trichloroethane	10.76	97	72889	51.561 ug/L #	22

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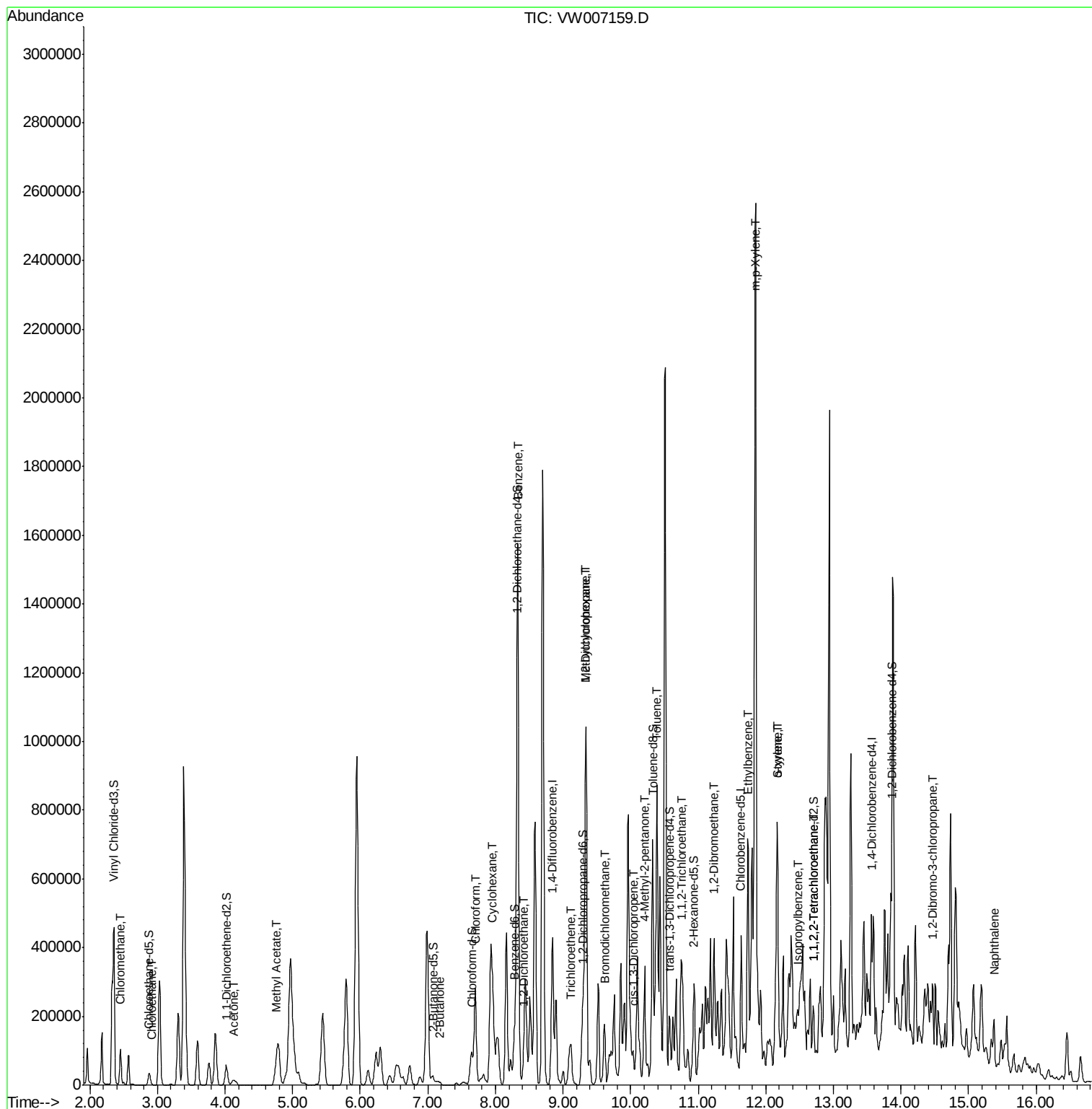
Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
51) 1,2-Dibromoethane	11.24	107	877	0.612	ug/L #	1
53) Ethylbenzene	11.73	91	347871	33.461	ug/L	99
54) m,p-Xylene	11.84	106	287703	70.924	ug/L	92
55) o-xylene	12.17	106	173460	46.111	ug/L	98
56) Styrene	12.17	104	12680	1.993	ug/L #	1
57) Isopropylbenzene	12.47	105	55502	5.306	ug/L #	96
58) 1,1,2,2-Tetrachloroethane	12.69	83	6225	3.465	ug/L #	60
66) 1,2-Dibromo-3-chloropropan	14.46	75	1692	4.801	ug/L #	3
69) Naphthalene	15.38	128	119193	18.463	ug/L	98

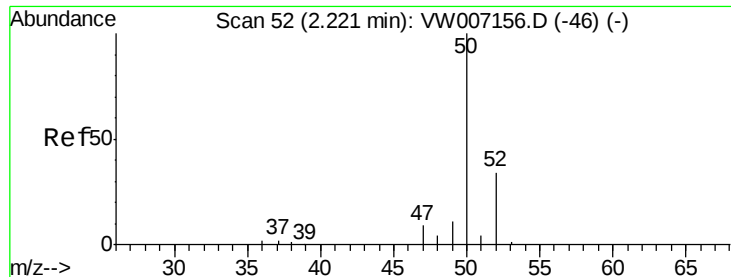
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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#3

Chloromethane

Concen: 2.964 ug/L

RT: 2.45 min Scan# 90

Delta R.T. 0.23 min

Lab File: VW007159.D

Acq: 03 Dec 2018 11:40

Instrument :

MSVOA_W

ClientSampled :

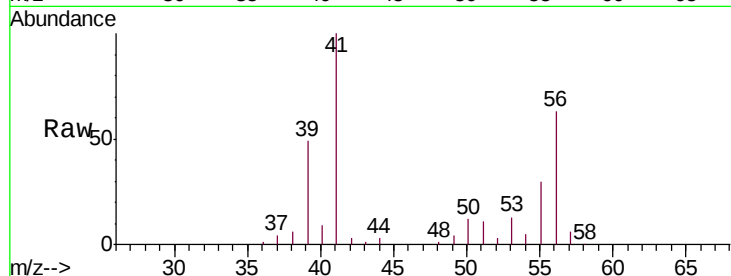
F9Y38

Tgt Ion: 50 Resp: 6142

Ion Ratio Lower Upper

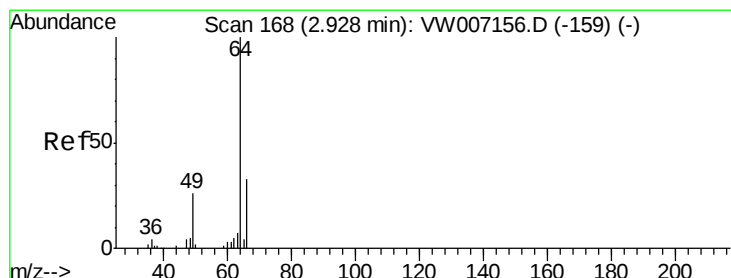
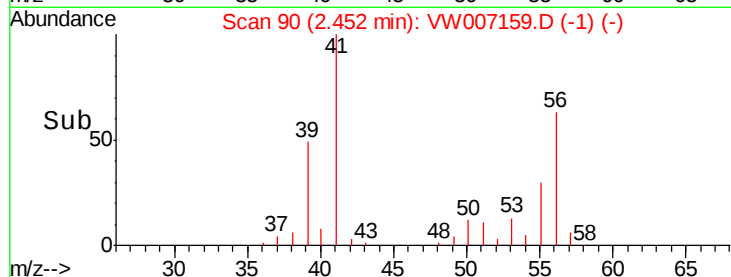
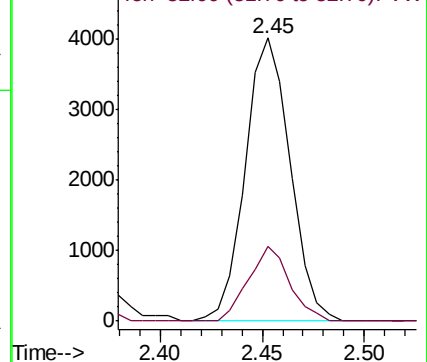
50 100

52 26.6 23.0 42.6



Abundance Ion 50.00 (49.70 to 50.70): VW

Ion 52.00 (51.70 to 52.70): VW



#8

Chloroethane

Concen: 0.413 ug/L

RT: 2.92 min Scan# 167

Delta R.T. -0.01 min

Lab File: VW007159.D

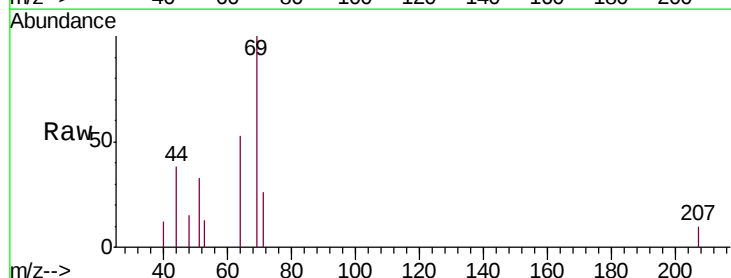
Acq: 03 Dec 2018 11:40

Tgt Ion: 64 Resp: 413

Ion Ratio Lower Upper

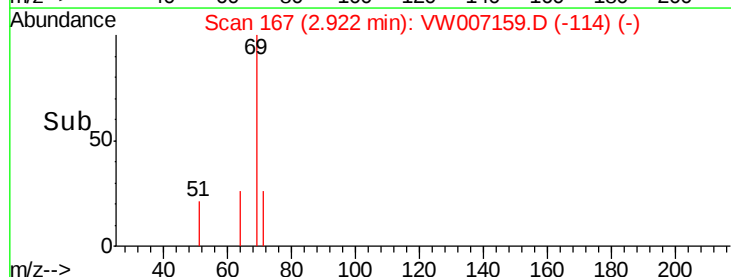
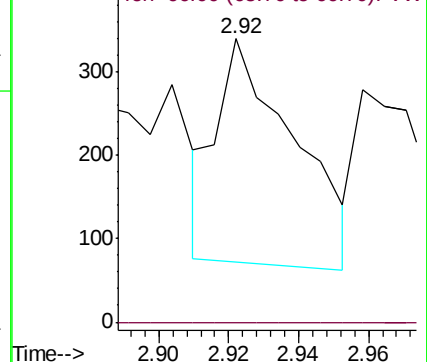
64 100

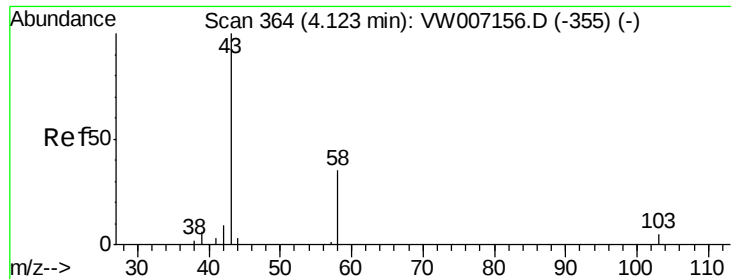
66 0.0 21.4 39.8#



Abundance Ion 64.00 (63.70 to 64.70): VW

Ion 66.00 (65.70 to 66.70): VW





#13

Acetone

Concen: 43.097 ug/L

RT: 4.13 min Scan# 365

Delta R.T. 0.01 min

Lab File: VW007159.D

Acq: 03 Dec 2018 11:40

Instrument :

MSVOA_W

ClientSampleId :

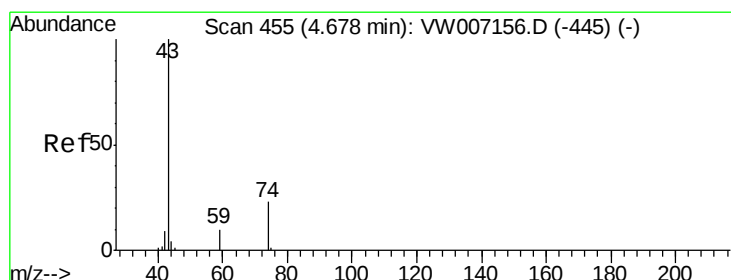
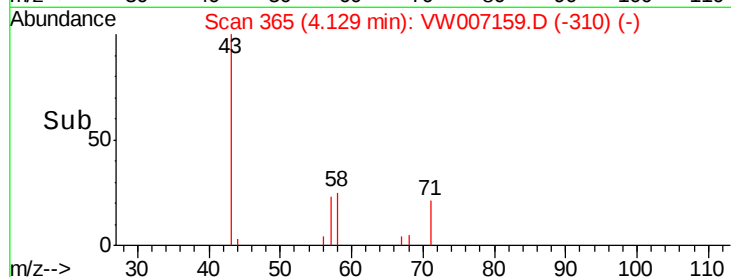
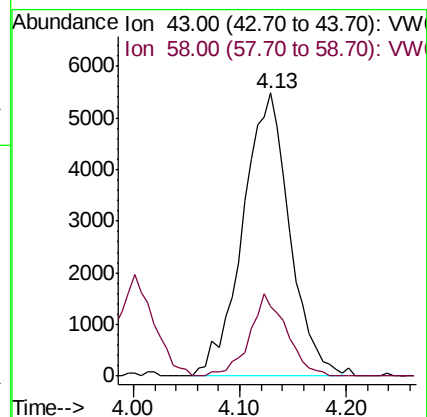
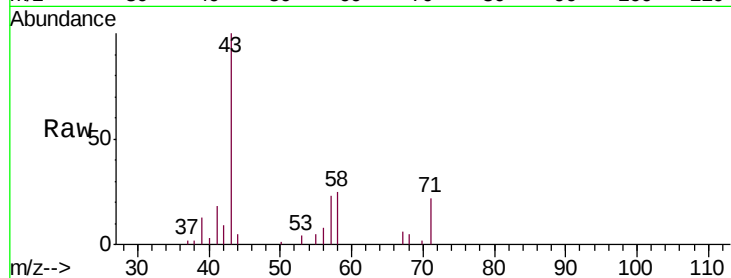
F9Y38

Tgt Ion: 43 Resp: 16887

Ion Ratio Lower Upper

43 100

58 22.6 0.0 62.4



#15

Methyl Acetate

Concen: 42.266 ug/L

RT: 4.75 min Scan# 467

Delta R.T. 0.07 min

Lab File: VW007159.D

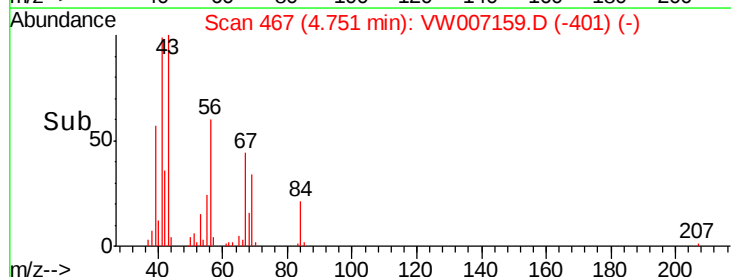
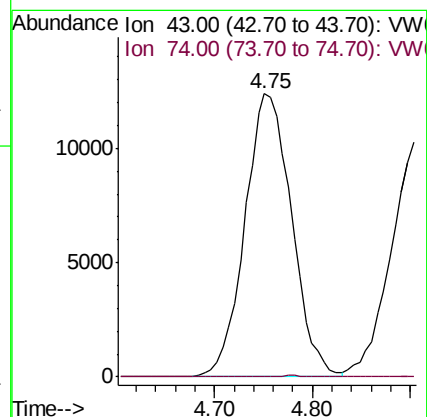
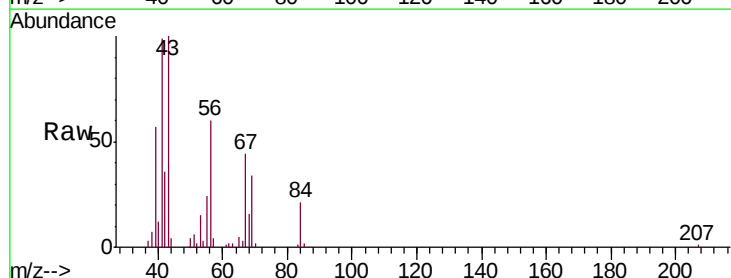
Acq: 03 Dec 2018 11:40

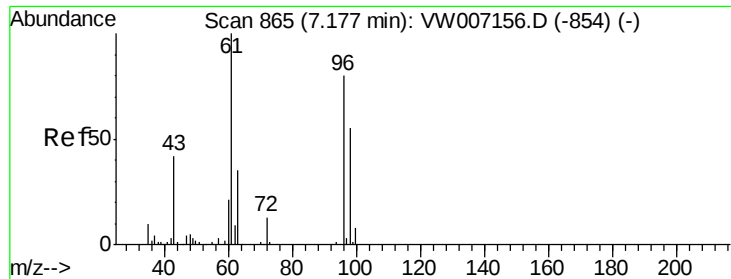
Tgt Ion: 43 Resp: 41066

Ion Ratio Lower Upper

43 100

74 0.1 19.3 28.9#





#21

2-Butanone

Concen: 14.882 ug/L

RT: 7.18 min Scan# 866

Delta R.T. 0.01 min

Lab File: VW007159.D

Acq: 03 Dec 2018 11:40

Instrument :

MSVOA_W

ClientSampled :

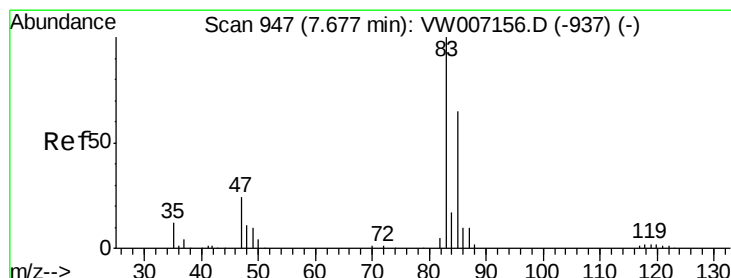
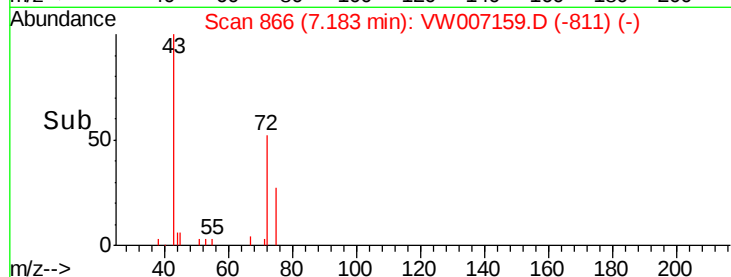
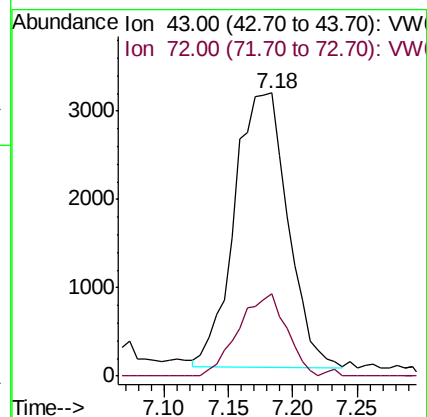
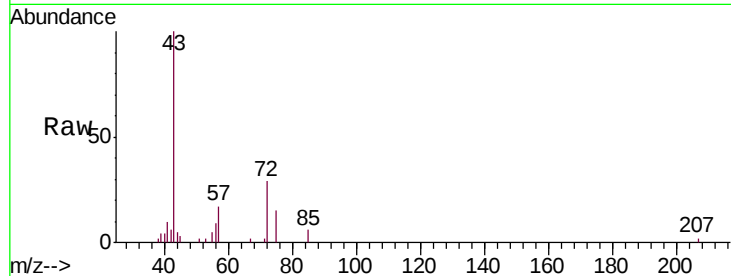
F9Y38

Tgt Ion: 43 Resp: 8952

Ion Ratio Lower Upper

43 100

72 26.9 13.5 40.5



#25

Chloroform

Concen: 1.891 ug/L

RT: 7.70 min Scan# 950

Delta R.T. 0.02 min

Lab File: VW007159.D

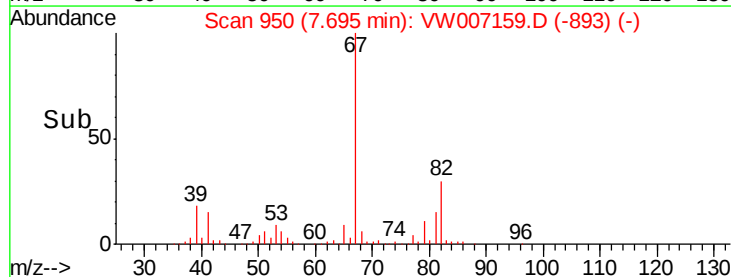
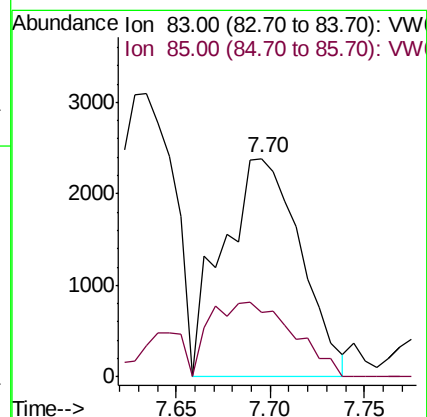
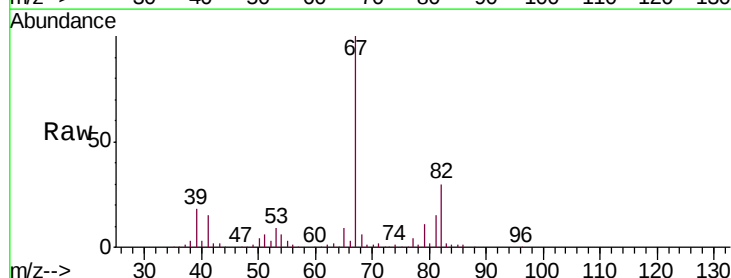
Acq: 03 Dec 2018 11:40

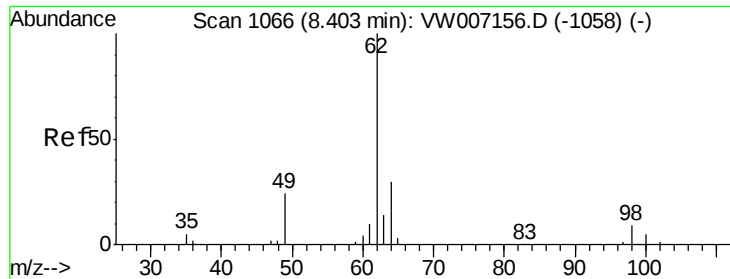
Tgt Ion: 83 Resp: 6782

Ion Ratio Lower Upper

83 100

85 26.1 46.1 85.7#

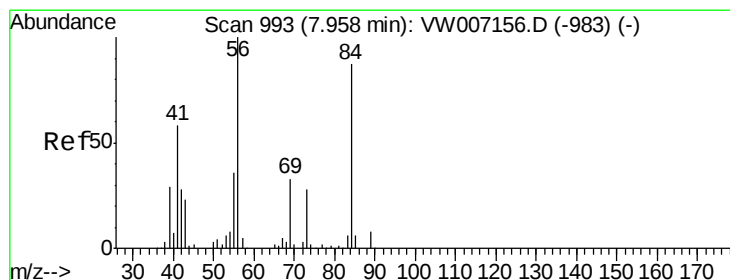
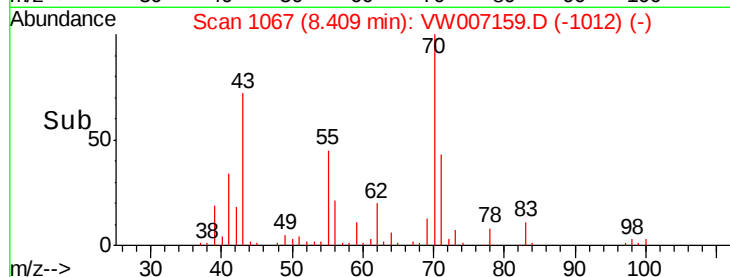
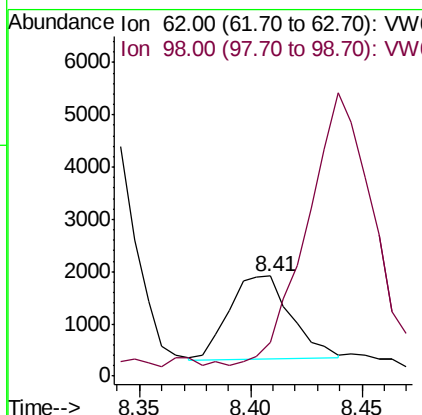
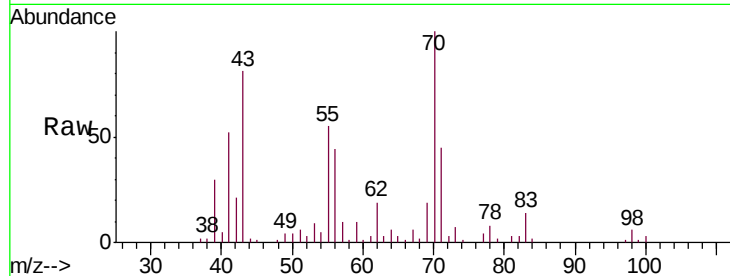




#27
 1,2-Dichloroethane
 Concen: 1.290 ug/L
 RT: 8.41 min Scan# 1067
 Delta R.T. 0.01 min
 Lab File: VW007159.D
 Acq: 03 Dec 2018 11:40

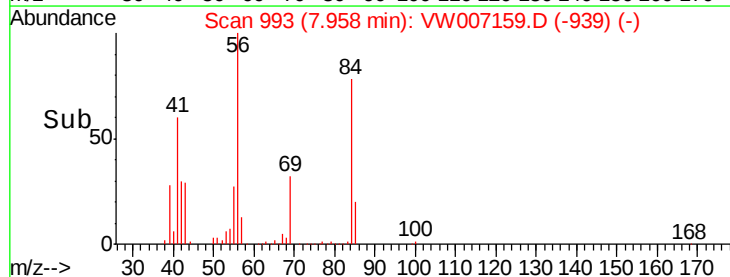
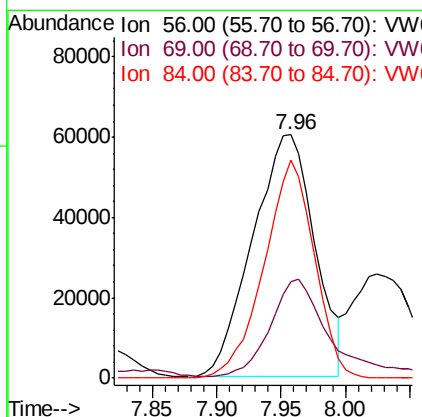
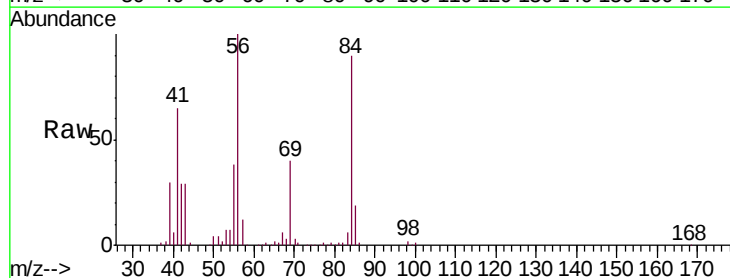
Instrument :
 MSVOA_W
 ClientSampled :
 F9Y38

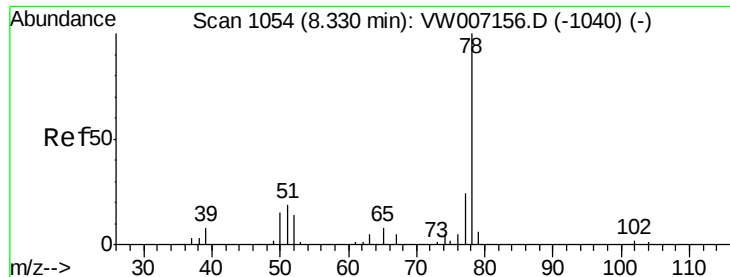
Tgt Ion: 62 Resp: 3068
 Ion Ratio Lower Upper
 62 100
 98 33.5 7.4 11.2#



#30
 Cyclohexane
 Concen: 64.201 ug/L
 RT: 7.96 min Scan# 993
 Delta R.T. -0.00 min
 Lab File: VW007159.D
 Acq: 03 Dec 2018 11:40

Tgt Ion: 56 Resp: 202094
 Ion Ratio Lower Upper
 56 100
 69 40.2 26.1 39.1#
 84 72.8 73.0 109.4#





#34

Benzene

Concen: 214.146 ug/L

RT: 8.33 min Scan# 1054

Delta R.T. -0.00 min

Lab File: VW007159.D

Acq: 03 Dec 2018 11:40

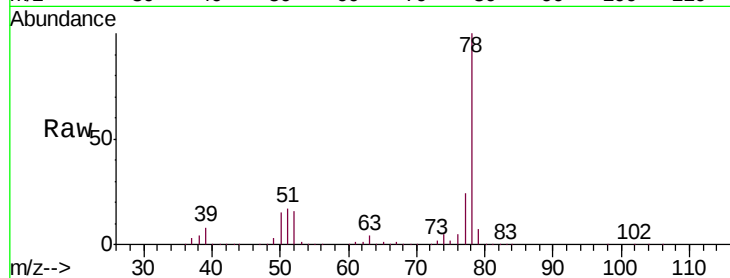
Instrument :

MSVOA_W

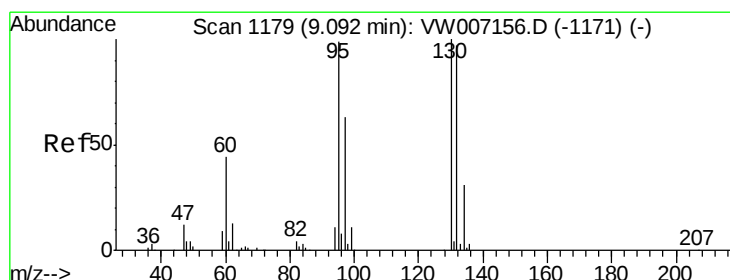
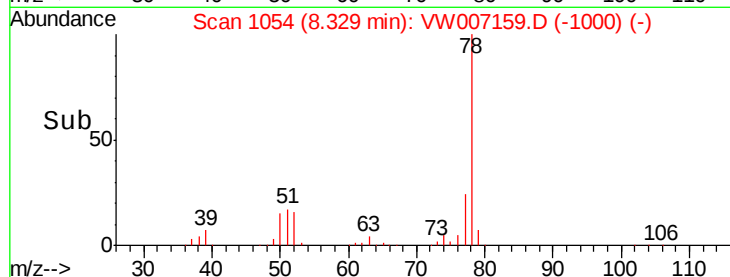
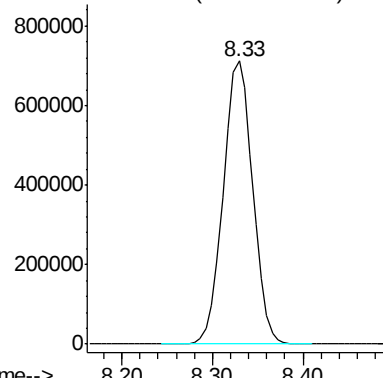
ClientSampleId :

F9Y38

Tgt Ion: 78 Resp: 1602613



Abundance Ion 78.00 (77.70 to 78.70): VW



#35

Trichloroethene

Concen: 2.255 ug/L

RT: 9.12 min Scan# 1184

Delta R.T. 0.03 min

Lab File: VW007159.D

Acq: 03 Dec 2018 11:40

Tgt Ion: 95 Resp: 4576

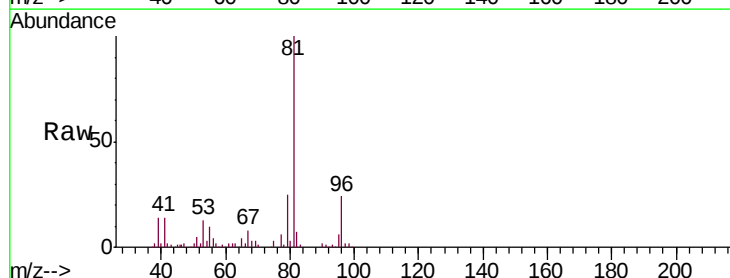
Ion	Ratio	Lower	Upper
95	100		
97	31.2	44.7	83.1#
132	0.0	68.2	126.6#
130	1.2	70.9	131.7#

95 100

97 31.2 44.7 83.1#

132 0.0 68.2 126.6#

130 1.2 70.9 131.7#

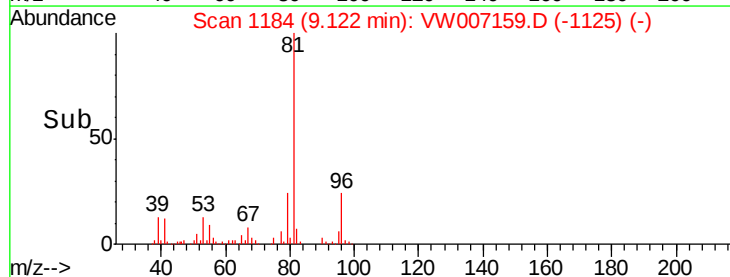
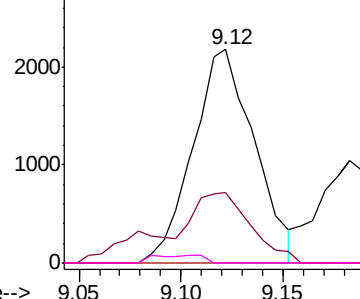


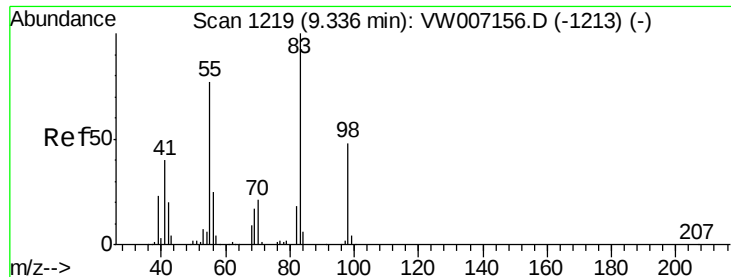
Abundance Ion 95.00 (94.70 to 95.70): VW

Ion 97.00 (96.70 to 97.70): VW

Ion 132.00 (131.70 to 132.70): V

Ion 130.00 (129.70 to 130.70): V

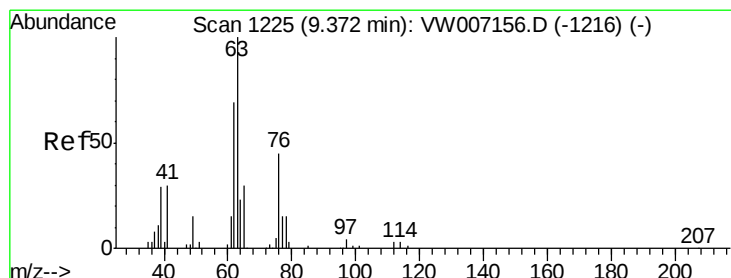
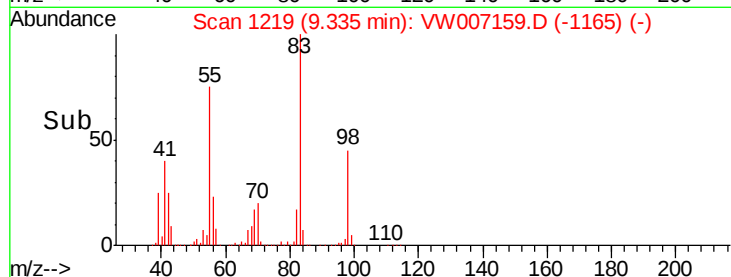
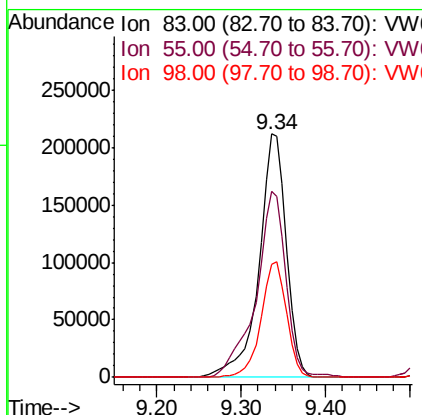
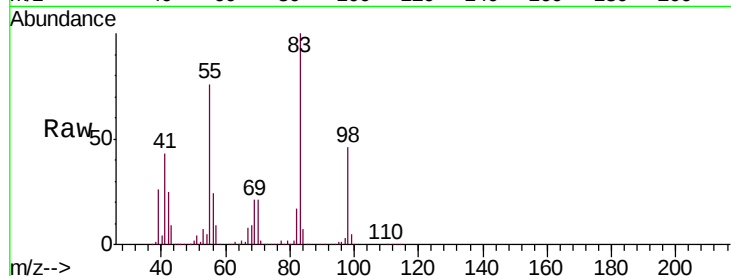




#36
Methylcyclohexane
Concen: 125.439 ug/L
RT: 9.34 min Scan# 1219
Delta R.T. -0.00 min
Lab File: VW007159.D
Acq: 03 Dec 2018 11:40

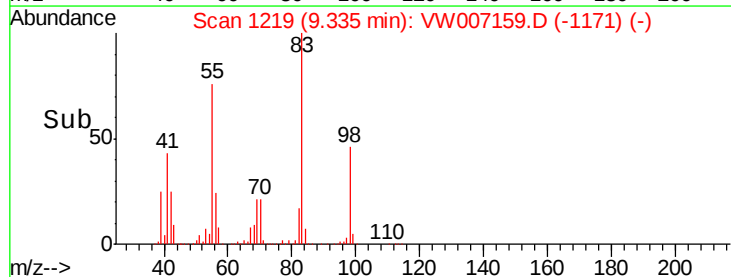
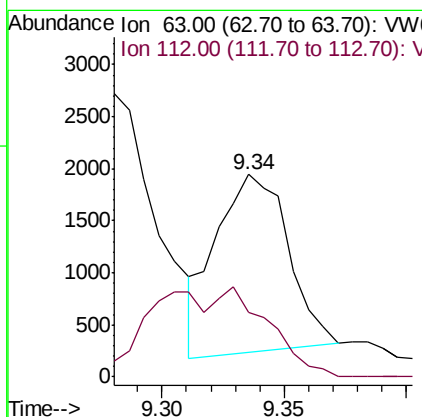
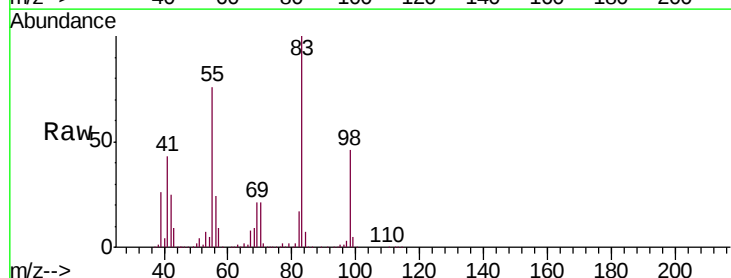
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F9Y38

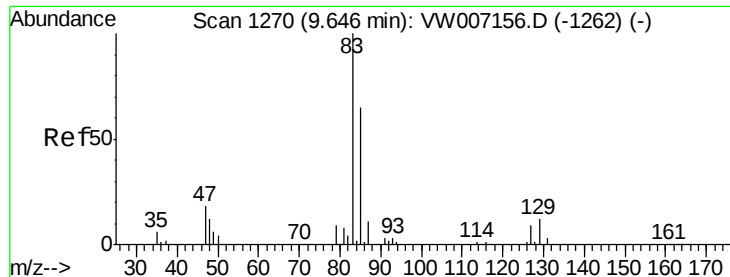
Tgt Ion: 83 Resp: 472597
Ion Ratio Lower Upper
83 100
55 82.4 60.2 90.4
98 44.5 38.8 58.2



#40
1,2-Dichloropropane
Concen: 1.957 ug/L
RT: 9.34 min Scan# 1219
Delta R.T. -0.04 min
Lab File: VW007159.D
Acq: 03 Dec 2018 11:40

Tgt Ion: 63 Resp: 3513
Ion Ratio Lower Upper
63 100
112 38.1 3.4 5.2#





#41

Bromodichloromethane

Concen: 4.192 ug/L

RT: 9.62 min Scan# 1266

Delta R.T. -0.02 min

Lab File: VW007159.D

Acq: 03 Dec 2018 11:40

Instrument :

MSVOA_W

ClientSampleId :

F9Y38

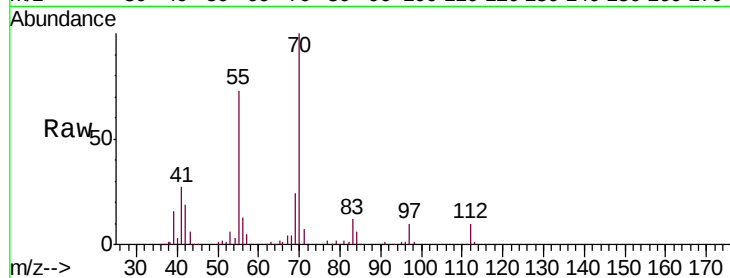
Tgt Ion: 83 Resp: 9852

Ion Ratio Lower Upper

83 100

85 3.9 43.9 81.5#

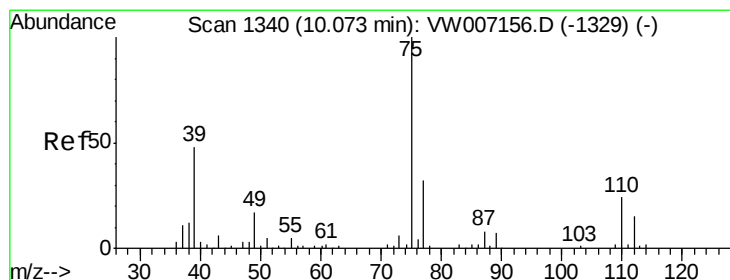
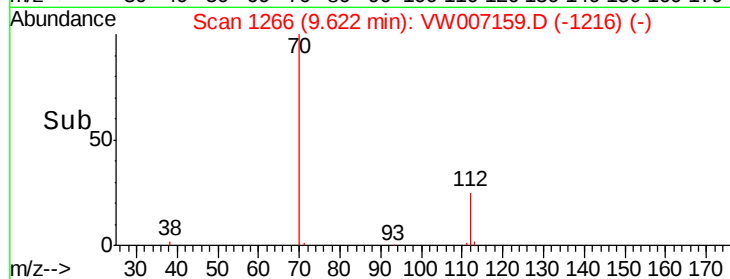
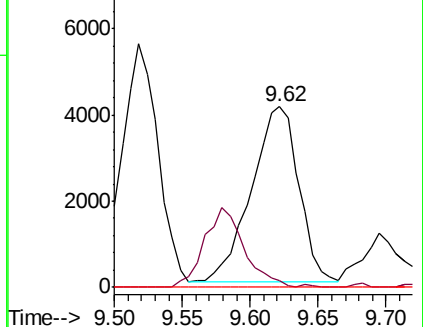
127 0.0 7.1 10.7#



Abundance Ion 83.00 (82.70 to 83.70): VW

Ion 85.00 (84.70 to 85.70): VW

Ion 127.00 (126.70 to 127.70): VW



#42

cis-1,3-Dichloropropene

Concen: 0.602 ug/L

RT: 10.04 min Scan# 1334

Delta R.T. -0.04 min

Lab File: VW007159.D

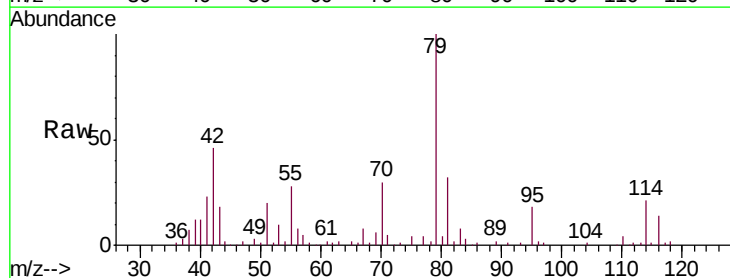
Acq: 03 Dec 2018 11:40

Tgt Ion: 75 Resp: 1717

Ion Ratio Lower Upper

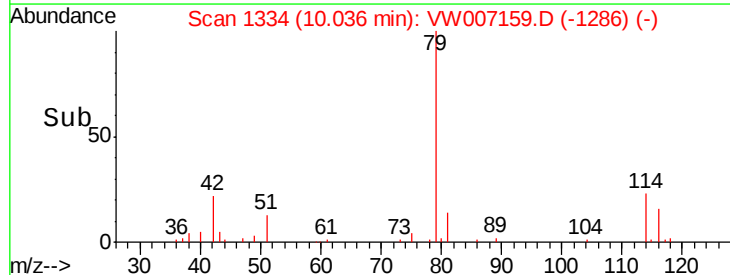
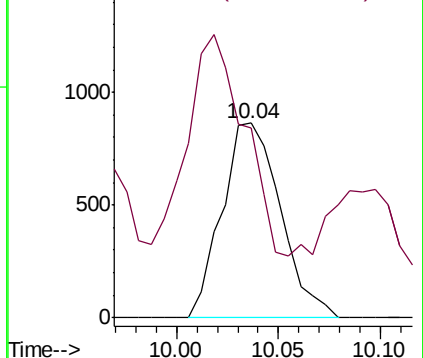
75 100

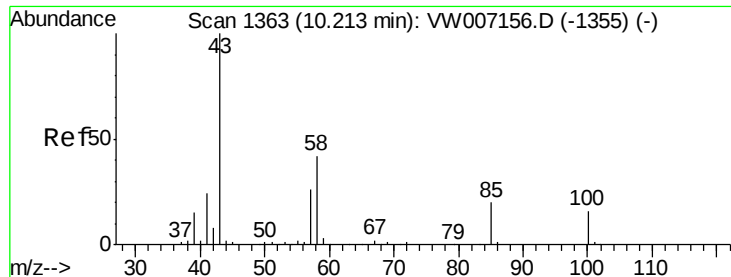
77 97.4 22.3 41.5#



Abundance Ion 75.00 (74.70 to 75.70): VW

Ion 77.00 (76.70 to 77.70): VW

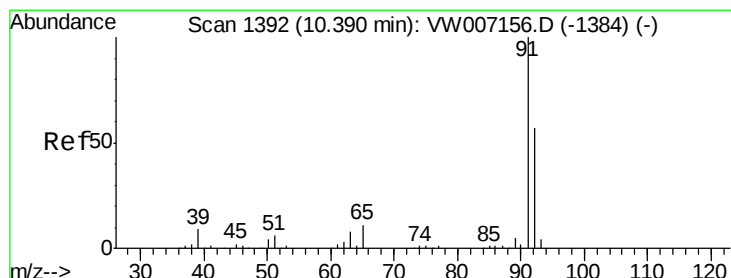
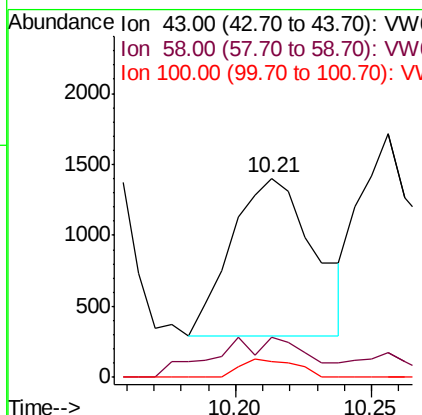
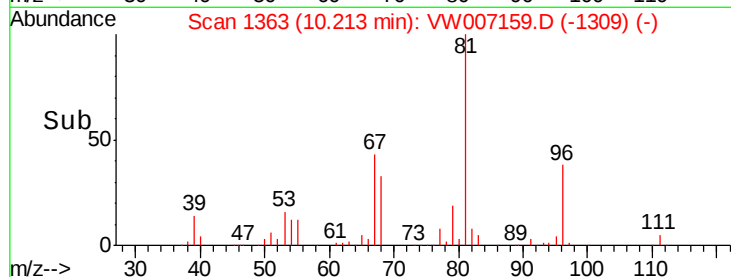
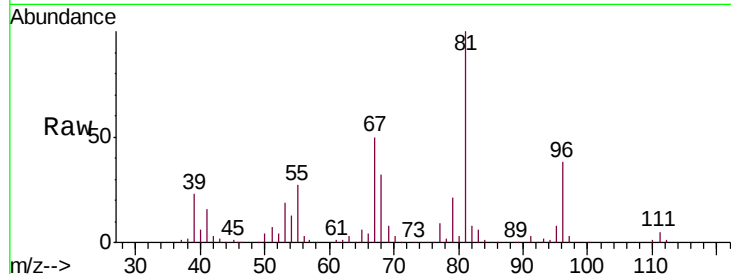




#43
4-Methyl-2-pentanone
Concen: 1.750 ug/L
RT: 10.21 min Scan# 1363
Delta R.T. -0.00 min
Lab File: VW007159.D
Acq: 03 Dec 2018 11:40

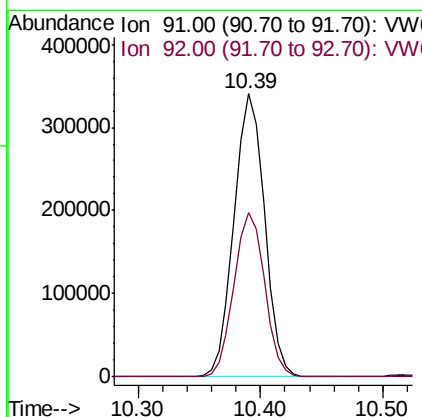
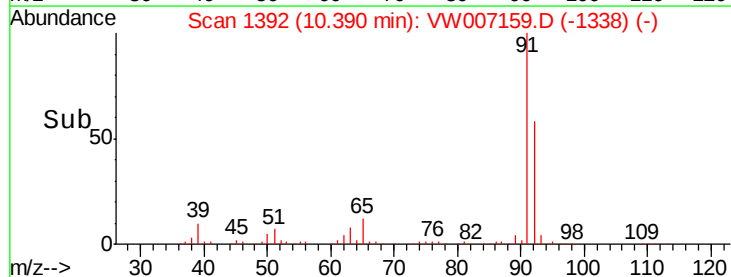
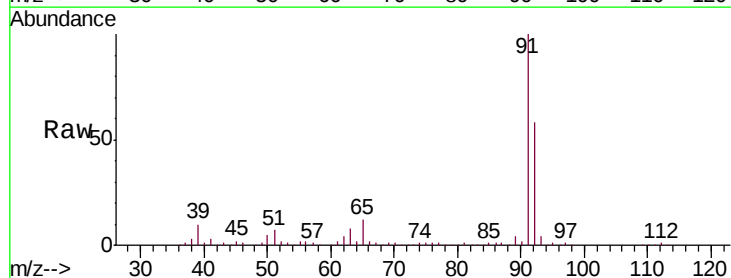
Instrument :
MSVOA_W
ClientSampleId :
F9Y38

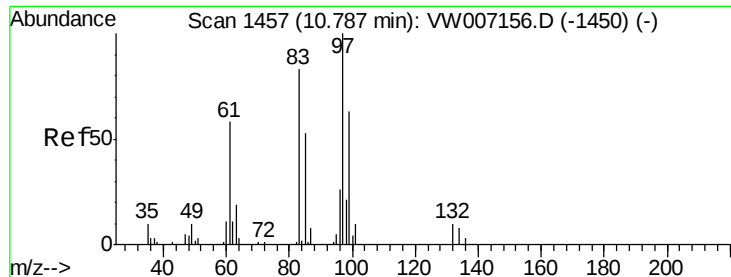
Tgt Ion: 43 Resp: 2324
Ion Ratio Lower Upper
43 100
58 6.2 31.4 47.2#
100 7.9 13.1 19.7#



#44
Toluene
Concen: 65.790 ug/L
RT: 10.39 min Scan# 1392
Delta R.T. -0.00 min
Lab File: VW007159.D
Acq: 03 Dec 2018 11:40

Tgt Ion: 91 Resp: 589957
Ion Ratio Lower Upper
91 100
92 58.2 41.2 76.6

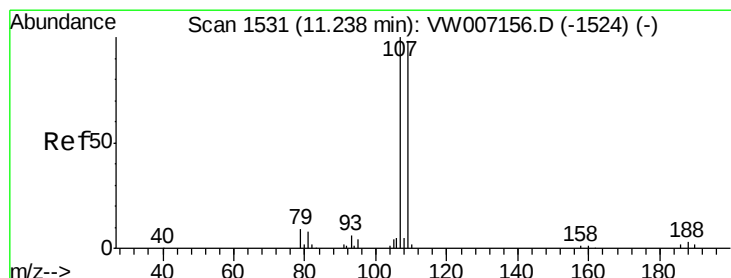
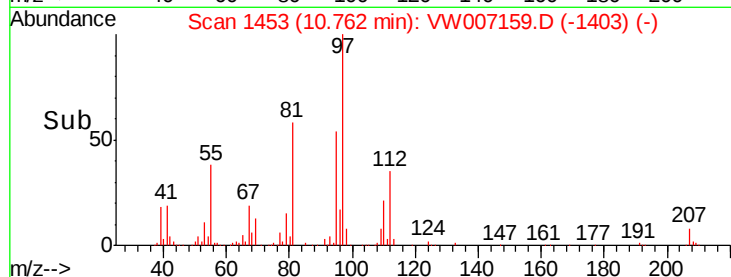
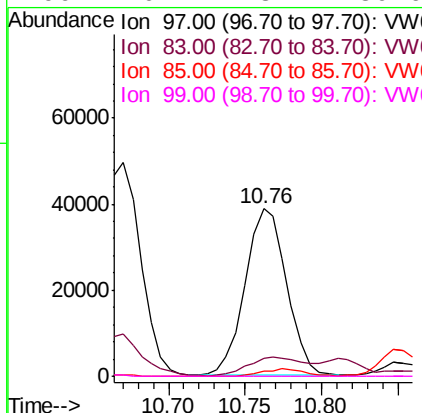
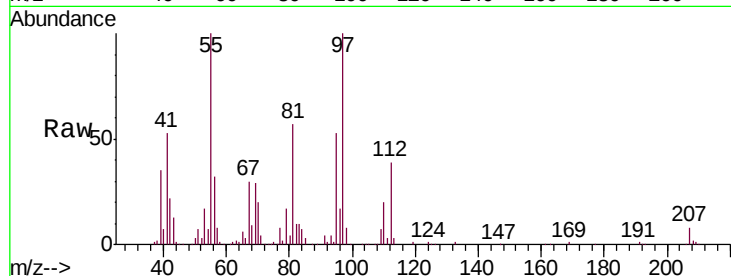




#46
 1,1,2-Trichloroethane
 Concen: 51.561 ug/L
 RT: 10.76 min Scan# 1453
 Delta R.T. -0.02 min
 Lab File: VW007159.D
 Acq: 03 Dec 2018 11:40

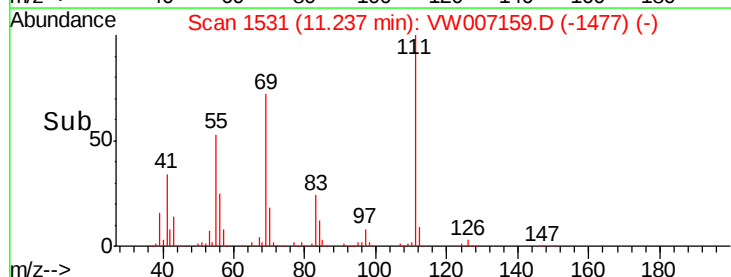
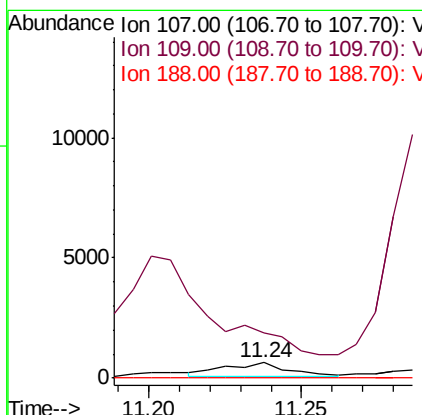
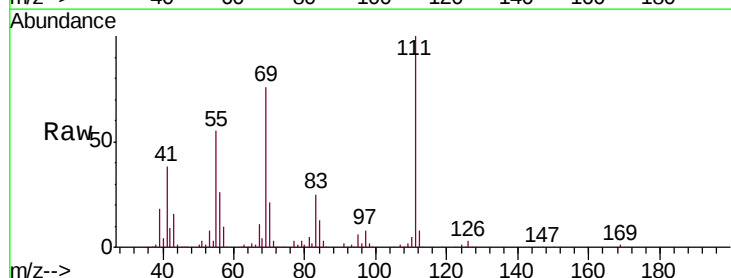
Instrument :
 MSVOA_W
 ClientSampled :
 F9Y38

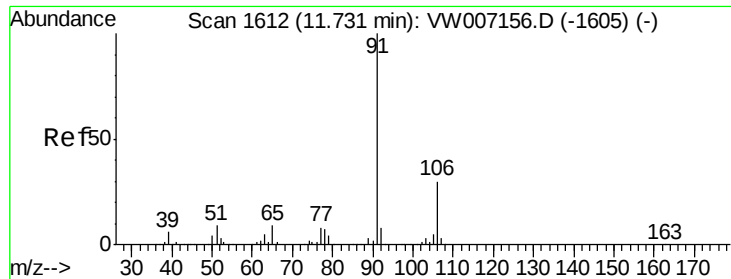
Tgt Ion: 97 Resp: 72889
 Ion Ratio Lower Upper
 97 100
 83 10.5 57.1 106.1#
 85 2.8 38.6 71.8#
 99 0.4 43.4 80.6#



#51
 1,2-Dibromoethane
 Concen: 0.612 ug/L
 RT: 11.24 min Scan# 1531
 Delta R.T. -0.00 min
 Lab File: VW007159.D
 Acq: 03 Dec 2018 11:40

Tgt Ion: 107 Resp: 877
 Ion Ratio Lower Upper
 107 100
 109 299.7 66.0 122.6#
 188 0.0 3.6 5.4#





#53

Ethylbenzene

Concen: 33.461 ug/L

RT: 11.73 min Scan# 1612

Delta R.T. -0.00 min

Lab File: VW007159.D

Acq: 03 Dec 2018 11:40

Instrument :

MSVOA_W

ClientSampleId :

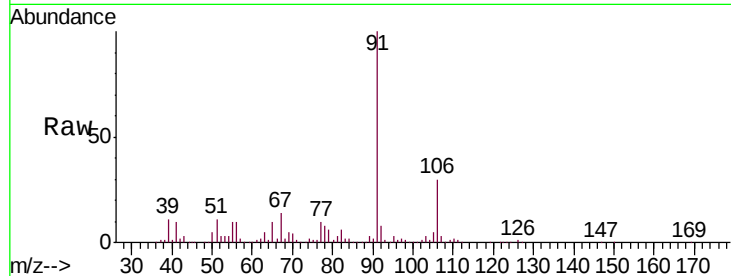
F9Y38

Tgt Ion: 91 Resp: 347871

Ion Ratio Lower Upper

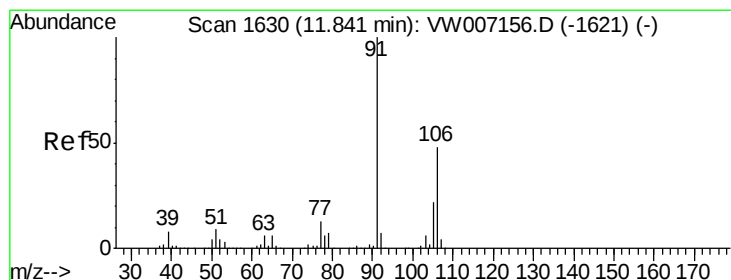
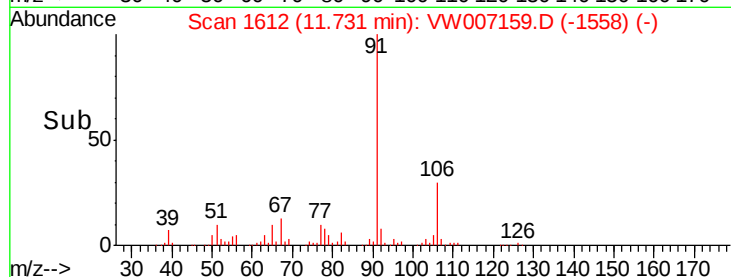
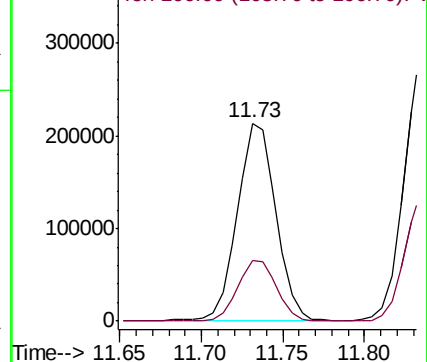
91 100

106 30.4 21.8 40.4



Abundance Ion 91.00 (90.70 to 91.70): VW

Ion 106.00 (105.70 to 106.70): V



#54

m,p-Xylene

Concen: 70.924 ug/L

RT: 11.84 min Scan# 1630

Delta R.T. -0.00 min

Lab File: VW007159.D

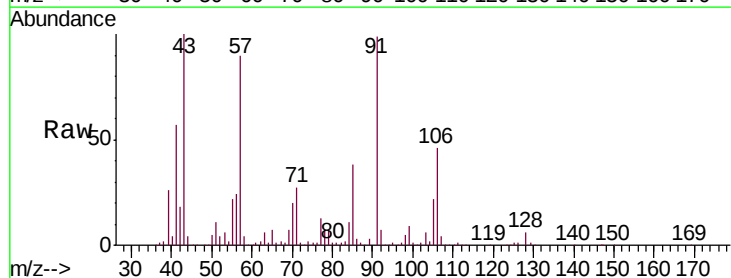
Acq: 03 Dec 2018 11:40

Tgt Ion: 106 Resp: 287703

Ion Ratio Lower Upper

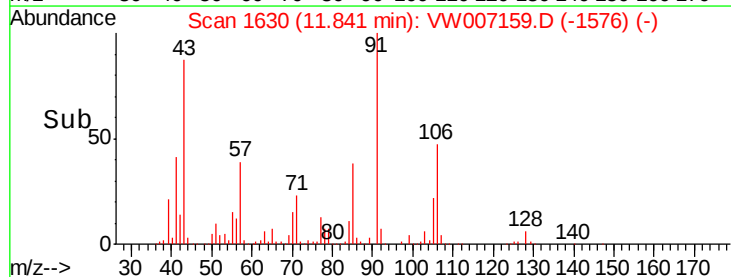
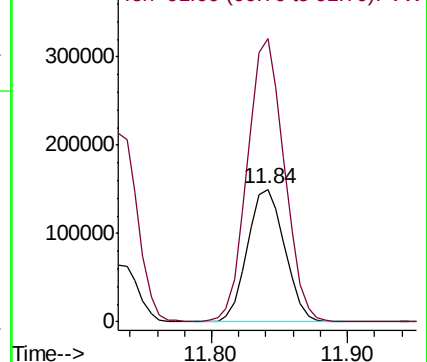
106 100

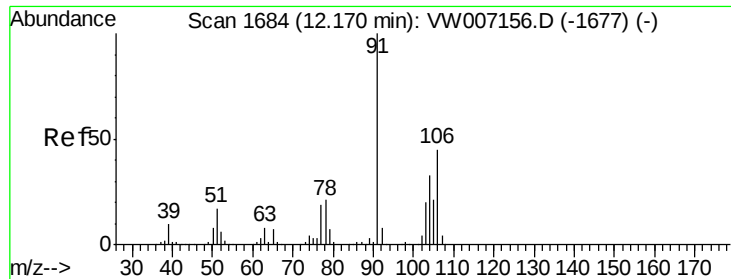
91 213.3 140.7 261.3



Abundance Ion 106.00 (105.70 to 106.70): V

Ion 91.00 (90.70 to 91.70): VW

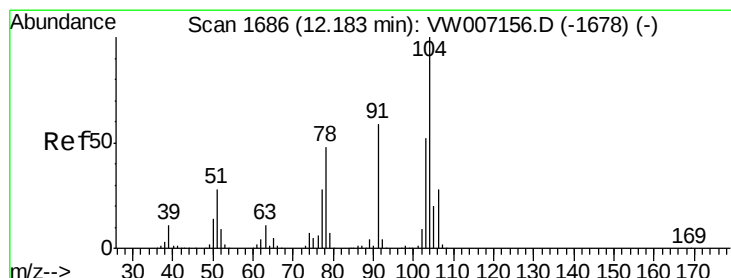
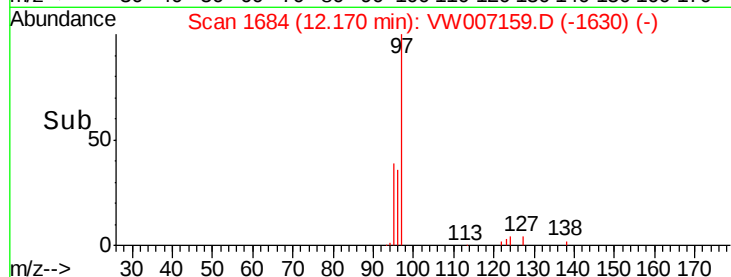
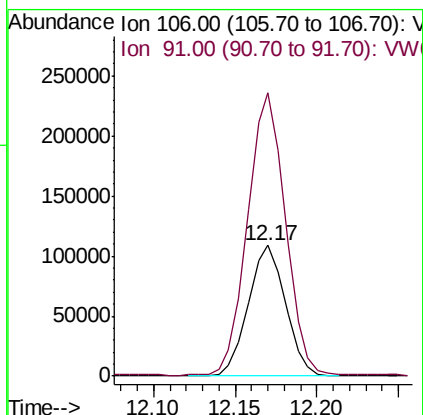
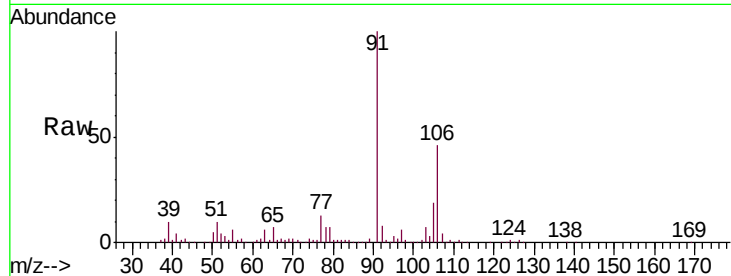




#55
o-xylene
Concen: 46.111 ug/L
RT: 12.17 min Scan# 1684
Delta R.T. -0.00 min
Lab File: VW007159.D
Acq: 03 Dec 2018 11:40

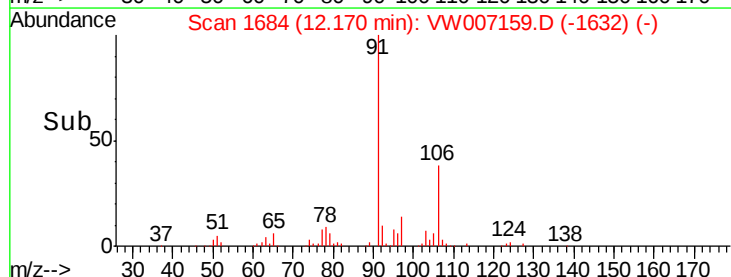
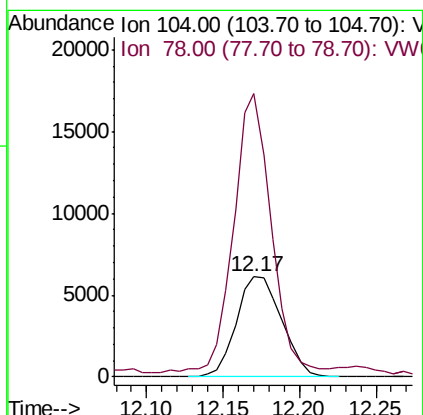
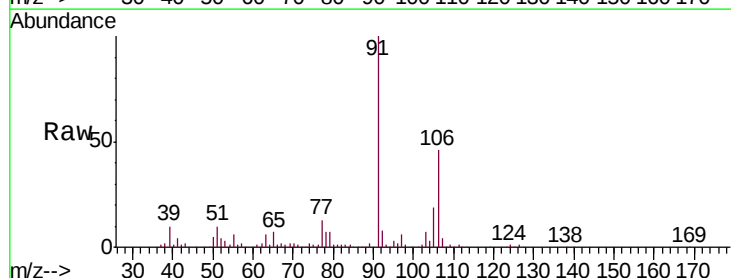
Instrument :
MSVOA_W
ClientSampled :
F9Y38

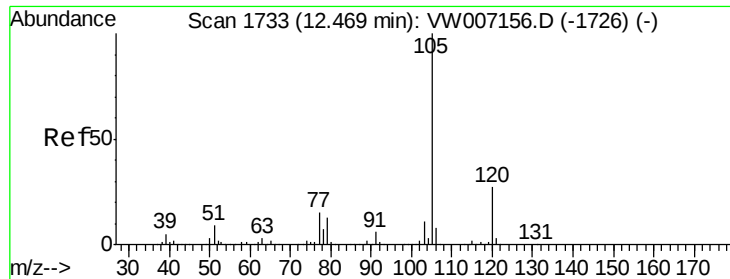
Tgt Ion:106 Resp: 173460
Ion Ratio Lower Upper
106 100
91 216.7 149.0 276.8



#56
Styrene
Concen: 1.993 ug/L
RT: 12.17 min Scan# 1684
Delta R.T. -0.01 min
Lab File: VW007159.D
Acq: 03 Dec 2018 11:40

Tgt Ion:104 Resp: 12680
Ion Ratio Lower Upper
104 100
78 282.5 34.6 64.2#





#57

Isopropylbenzene

Concen: 5.306 ug/L

RT: 12.47 min Scan# 1733

Delta R.T. -0.00 min

Lab File: VW007159.D

Acq: 03 Dec 2018 11:40

Instrument :

MSVOA_W

ClientSampleId :

F9Y38

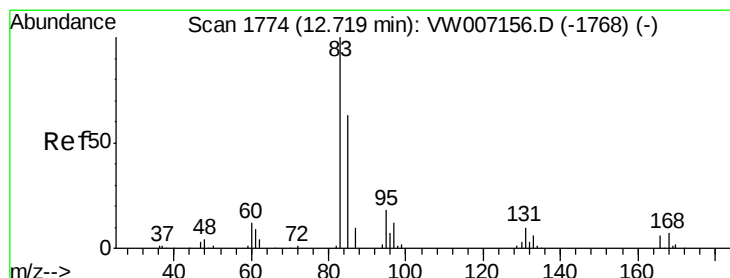
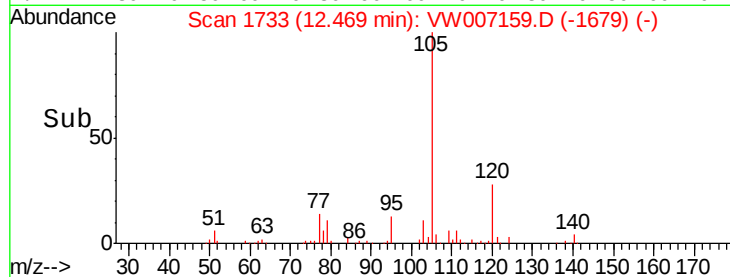
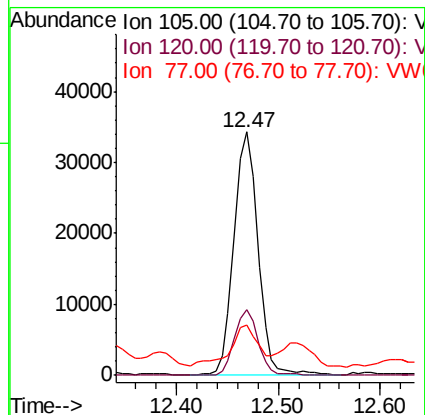
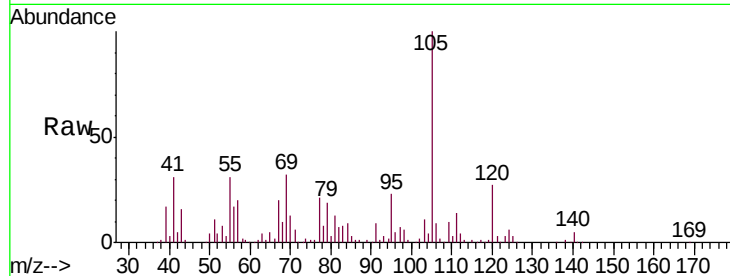
Tgt Ion: 105 Resp: 55502

Ion Ratio Lower Upper

105 100

120 26.6 20.8 31.2

77 19.1 12.0 18.0#



#58

1,1,2,2-Tetrachloroethane

Concen: 3.465 ug/L

RT: 12.69 min Scan# 1770

Delta R.T. -0.02 min

Lab File: VW007159.D

Acq: 03 Dec 2018 11:40

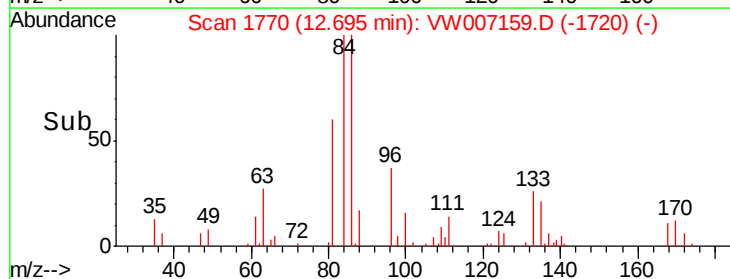
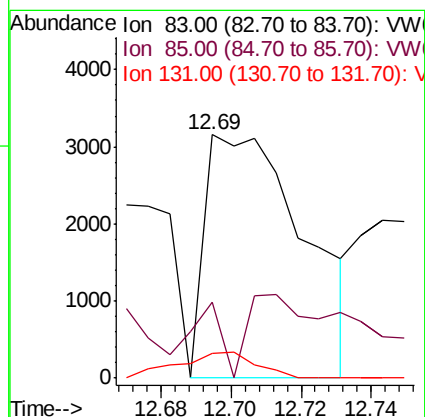
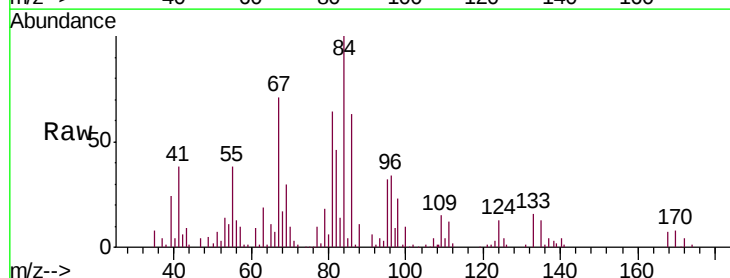
Tgt Ion: 83 Resp: 6225

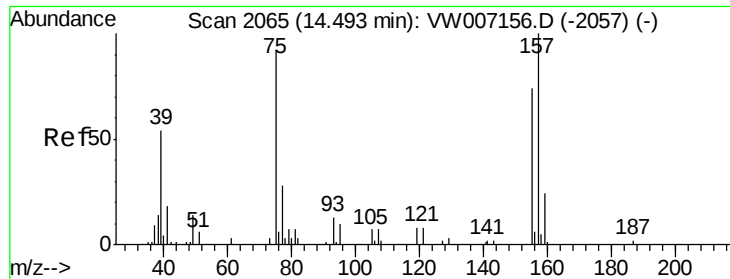
Ion Ratio Lower Upper

83 100

85 31.1 47.8 88.8#

131 10.4 8.2 12.2

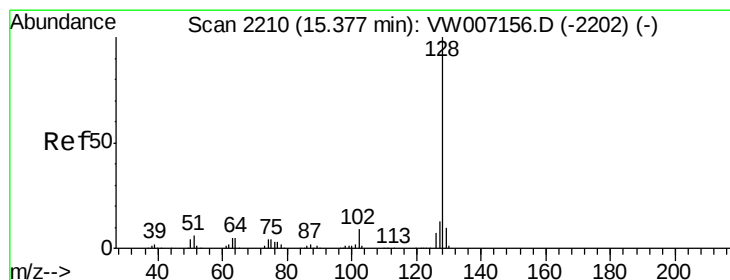
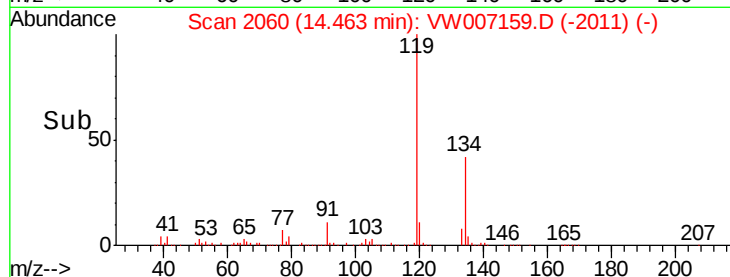
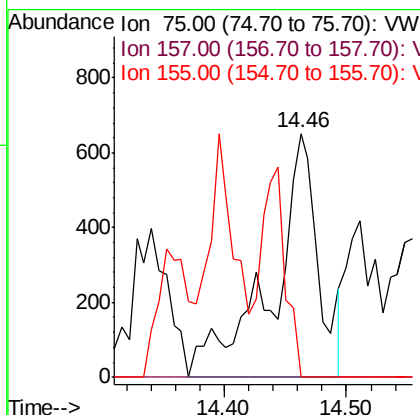
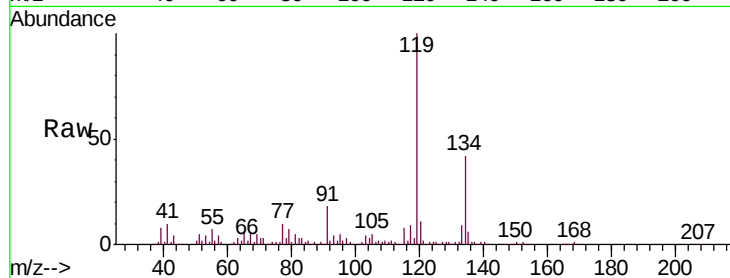




#66
1,2-Dibromo-3-chloropropane
Concen: 4.801 ug/L
RT: 14.46 min Scan# 2060
Delta R.T. -0.03 min
Lab File: VW007159.D
Acq: 03 Dec 2018 11:40

Instrument :
MSVOA_W
ClientSampleId :
F9Y38

Tgt Ion: 75 Resp: 1692
Ion Ratio Lower Upper
75 100
157 0.0 86.4 129.6#
155 0.0 58.3 87.5#



#69
Naphthalene
Concen: 18.463 ug/L
RT: 15.38 min Scan# 2210
Delta R.T. -0.00 min
Lab File: VW007159.D
Acq: 03 Dec 2018 11:40

Tgt Ion: 128 Resp: 119193
Ion Ratio Lower Upper
128 100
129 12.3 8.7 13.1
127 14.1 10.9 16.3

