

Data File : VW006361.D
Acq On : 25 Oct 2018 13:47
Operator : SY/AP
Sample : J5657-01
Misc : 5.13G/10ML/MSVOA_W/SOIL
ALS Vial : 1 Sample Multiplier: 1

Instrument :
MSVOA_W
ClientSampleId :
A40G4

Quant Time: Oct 26 04:09:08 2018
Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_W\METHOD\SOM2WLM100918S.M
Quant Title : VOC Analysis
QLast Update : Fri Oct 26 04:05:39 2018
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Difluorobenzene	8.85	114	300982	25.00	ug/L	0.00
28) Chlorobenzene-d5	11.63	117	168448	25.00	ug/L	0.00
60) 1,4-Dichlorobenzene-d4	13.57	152	25114	25.00	ug/L	0.00

System Monitoring Compounds

4) Vinyl Chloride-d3	2.36	65	71244	20.99	ug/L	0.00
Spiked Amount	25.000	Range	30 - 150	Recovery	=	83.96%
7) Chloroethane-d5	2.90	69	67963	23.26	ug/L	0.00
Spiked Amount	25.000	Range	30 - 150	Recovery	=	93.04%
10) 1,1-Dichloroethene-d2	4.01	63	104651	16.05	ug/L	0.00
Spiked Amount	25.000	Range	45 - 110	Recovery	=	64.20%
20) 2-Butanone-d5	7.08	46	54699	48.62	ug/L	0.00
Spiked Amount	50.000	Range	20 - 135	Recovery	=	97.24%
24) Chloroform-d	7.65	84	152983	23.46	ug/L	0.00
Spiked Amount	25.000	Range	40 - 150	Recovery	=	93.84%
26) 1,2-Dichloroethane-d4	8.31	65	87508	24.26	ug/L	0.00
Spiked Amount	25.000	Range	70 - 130	Recovery	=	97.04%
29) Benzene-d6	8.28	84	294682	38.53	ug/L	0.00
Spiked Amount	25.000	Range	20 - 135	Recovery	=	154.12%#
33) 1,2-Dichloropropane-d6	9.28	67	83756	36.29	ug/L	0.00
Spiked Amount	25.000	Range	70 - 120	Recovery	=	145.16%#
37) Toluene-d8	10.33	98	236393	30.91	ug/L	0.00
Spiked Amount	25.000	Range	30 - 130	Recovery	=	123.64%
38) trans-1,3-Dichloropropene-	10.58	79	29197	26.03	ug/L	0.00
Spiked Amount	25.000	Range	30 - 135	Recovery	=	104.12%
39) 2-Hexanone-d5	10.93	63	41181	73.84	ug/L	0.00
Spiked Amount	50.000	Range	20 - 135	Recovery	=	147.68%#
48) 1,1,2,2-Tetrachloroethane-	12.70	84	32314	14.40	ug/L	0.00
Spiked Amount	25.000	Range	45 - 120	Recovery	=	57.60%
61) 1,2-Dichlorobenzene-d4	13.86	152	13966	16.22	ug/L	0.00
Spiked Amount	25.000	Range	75 - 120	Recovery	=	64.88%#

Target Compounds

					Qvalue
13) Acetone	4.13	43	45401	39.942 ug/L	98
14) Carbon disulfide	4.37	76	34365	3.042 ug/L	99
19) 1,1-Dichloroethane	6.21	63	11133	1.798 ug/L	96
21) 2-Butanone	7.18	43	3749	2.482 ug/L	93
31) 1,1,1-Trichloroethane	7.88	97	2045	0.580 ug/L #	88
34) Benzene	8.33	78	62334	7.208 ug/L	100
36) Methylcyclohexane	9.34	83	10126	2.271 ug/L #	87
40) 1,2-Dichloropropane	9.28	63	9834	4.584 ug/L	99
42) cis-1,3-Dichloropropene	10.04	75	2413	0.689 ug/L	93
44) Toluene	10.39	91	137415	14.152 ug/L	99
46) 1,1,2-Trichloroethane	10.76	97	2630	1.472 ug/L #	26
49) 2-Hexanone	10.93	43	7584	5.987 ug/L #	52
52) Chlorobenzene	11.66	112	327997	49.917 ug/L	98
53) Ethylbenzene	11.74	91	391678	34.650 ug/L	98
54) m,p-Xylene	11.84	106	439965	99.295 ug/L	99
55) o-xylene	12.17	106	224016	52.950 ug/L	96
56) Styrene	12.18	104	16666	2.288 ug/L #	1

Data Path : Z:\VOASRV\HPCHEM1\MSVOA_W\DATA\VW102618\
Quantitation Report (Not Reviewed)

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Quant Title : VOC Analysis
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Response via : Initial Calibration

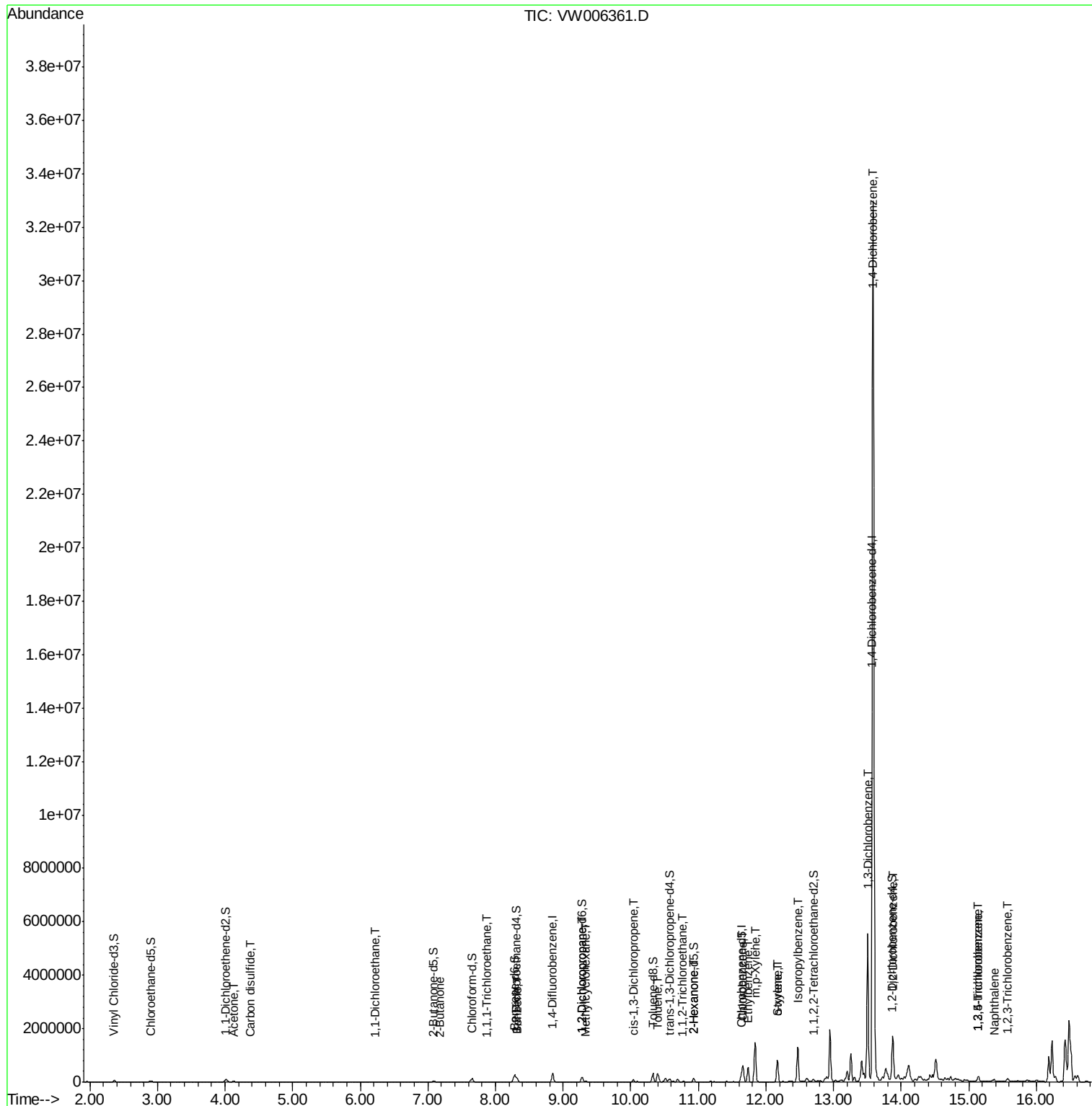
Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
57) Isopropylbenzene	12.47	105	729720	61.990	ug/L #	97
63) 1,3-Dichlorobenzene	13.51	146	2317461	1502.643	ug/L	99
64) 1,4-Dichlorobenzene	13.58	146	14207352	9147.905	ug/L	88
65) 1,2-Dichlorobenzene	13.88	146	624212	439.962	ug/L	99
67) 1,3,5-Trichlorobenzene	15.15	180	66006	53.095	ug/L	98
68) 1,2,4-trichlorobenzene	15.15	180	66006	62.266	ug/L	98
69) Naphthalene	15.38	128	61726	28.760	ug/L	96
70) 1,2,3-Trichlorobenzene	15.57	180	9612	10.093	ug/L #	93

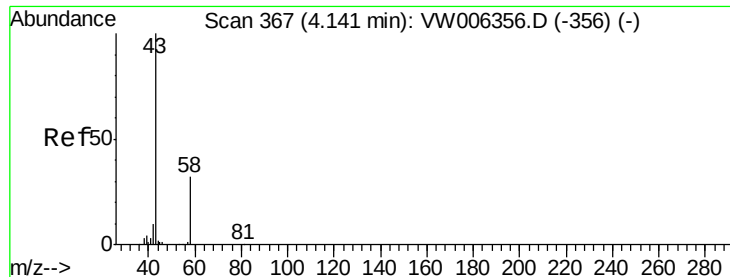
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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#13

Acetone

Concen: 39.942 ug/L

RT: 4.13 min Scan# 365

Delta R.T. -0.01 min

Lab File: VW006361.D

Acq: 25 Oct 2018 13:47

Instrument :

MSVOA_W

ClientSampled :

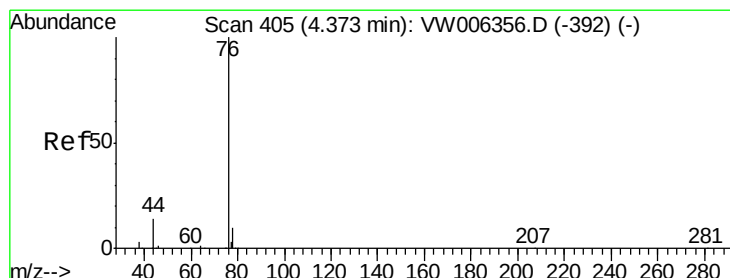
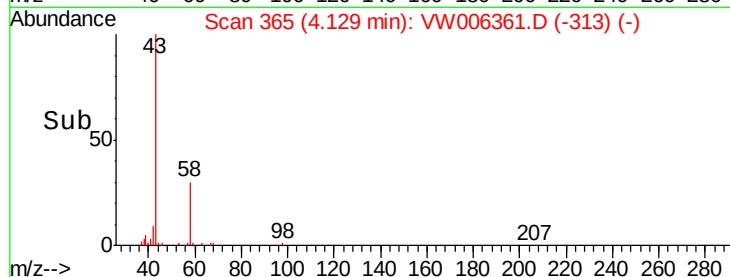
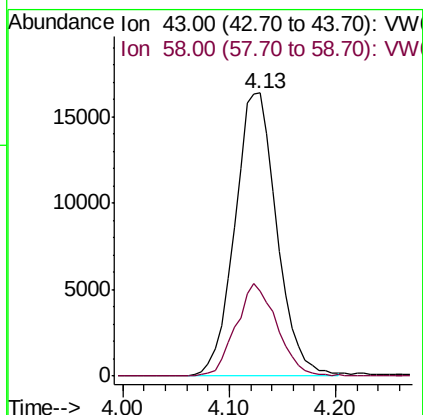
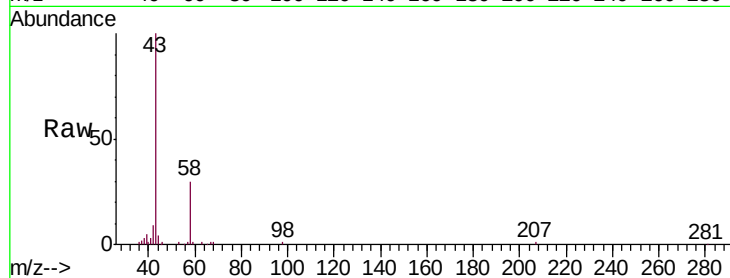
A40G4

Tgt Ion: 43 Resp: 45401

Ion Ratio Lower Upper

43 100

58 31.8 0.0 61.2



#14

Carbon disulfide

Concen: 3.042 ug/L

RT: 4.37 min Scan# 405

Delta R.T. 0.00 min

Lab File: VW006361.D

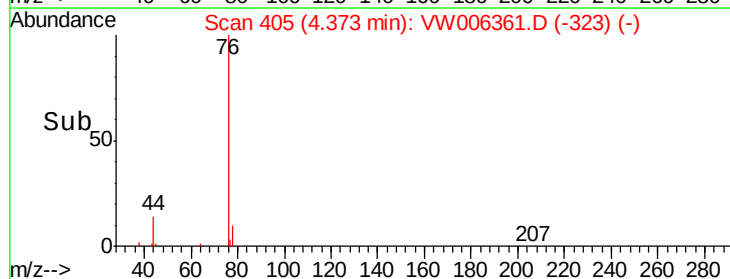
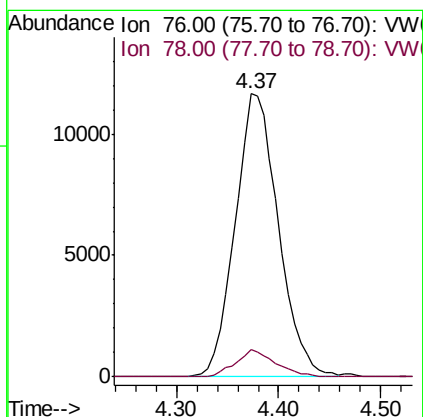
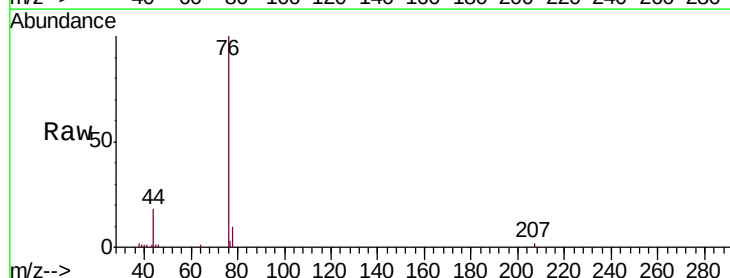
Acq: 25 Oct 2018 13:47

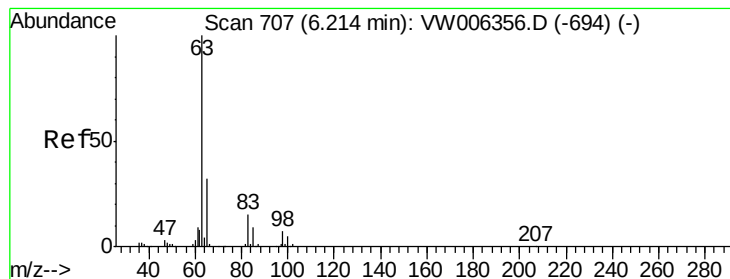
Tgt Ion: 76 Resp: 34365

Ion Ratio Lower Upper

76 100

78 9.8 7.6 11.4





#19

1,1-Dichloroethane

Concen: 1.798 ug/L

RT: 6.21 min Scan# 707

Delta R.T. 0.00 min

Lab File: VW006361.D

Acq: 25 Oct 2018 13:47

Instrument :

MSVOA_W

ClientSampleId :

A40G4

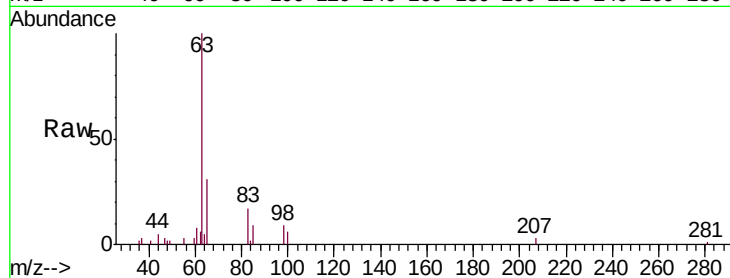
Tgt Ion: 63 Resp: 11133

Ion Ratio Lower Upper

63 100

65 30.6 22.3 41.5

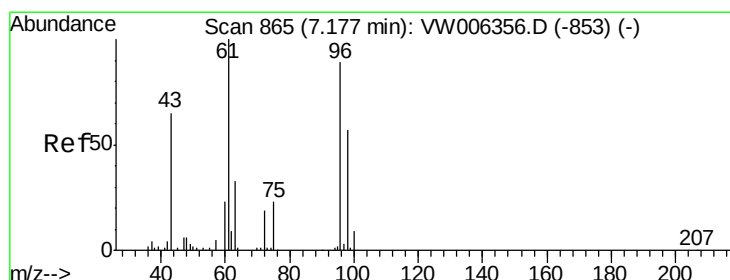
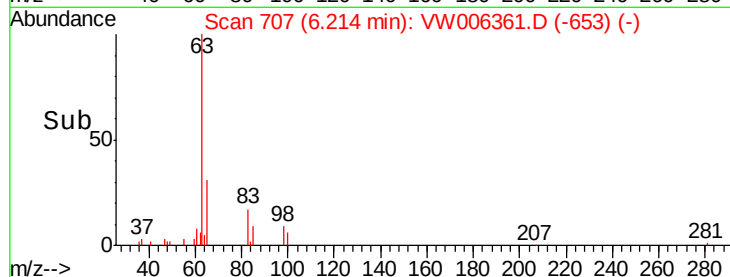
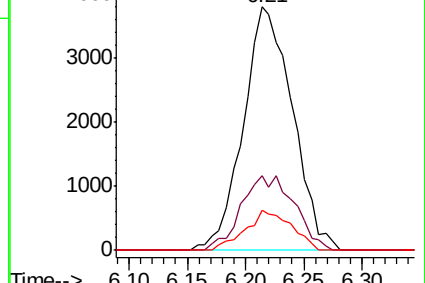
83 16.7 9.7 18.1



Abundance Ion 63.00 (62.70 to 63.70): VW

Ion 65.00 (64.70 to 65.70): VW

Ion 83.00 (82.70 to 83.70): VW



#21

2-Butanone

Concen: 2.482 ug/L

RT: 7.18 min Scan# 865

Delta R.T. 0.00 min

Lab File: VW006361.D

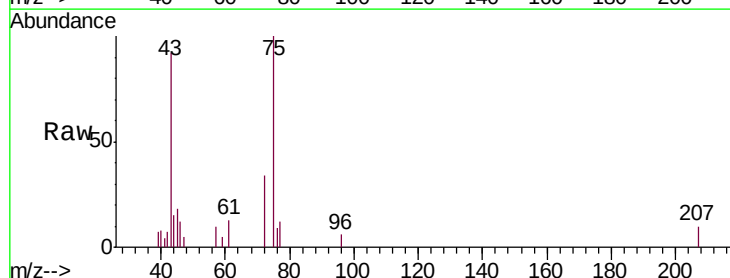
Acq: 25 Oct 2018 13:47

Tgt Ion: 43 Resp: 3749

Ion Ratio Lower Upper

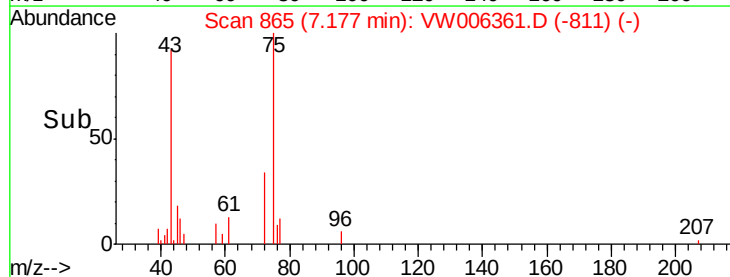
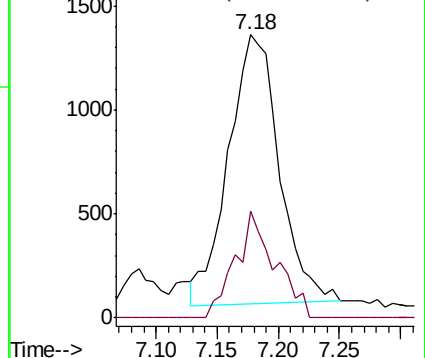
43 100

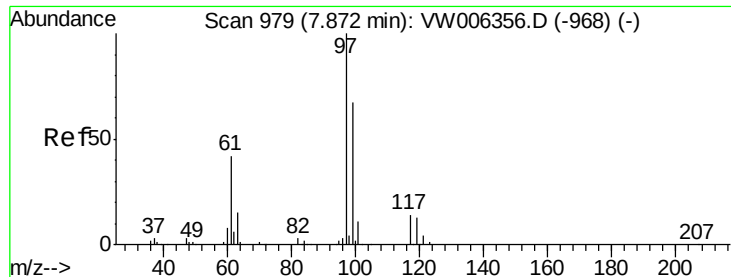
72 24.0 13.8 41.4



Abundance Ion 43.00 (42.70 to 43.70): VW

Ion 72.00 (71.70 to 72.70): VW





#31

1,1,1-Trichloroethane

Concen: 0.580 ug/L

RT: 7.88 min Scan# 980

Delta R.T. 0.01 min

Lab File: VW006361.D

Acq: 25 Oct 2018 13:47

Instrument :

MSVOA_W

ClientSampled :

A40G4

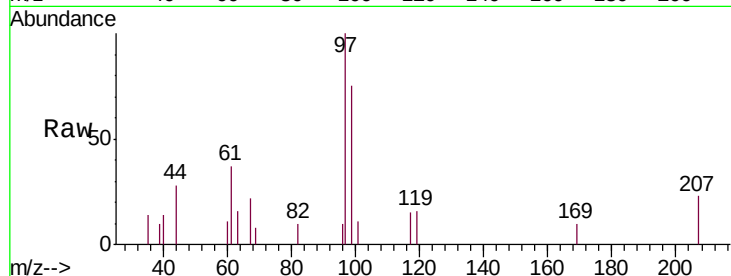
Tgt Ion: 97 Resp: 2045

Ion Ratio Lower Upper

97 100

99 64.4 51.0 76.4

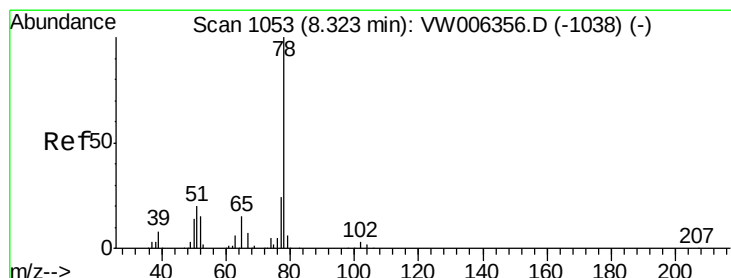
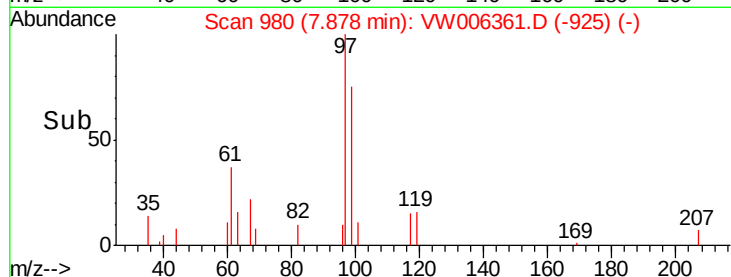
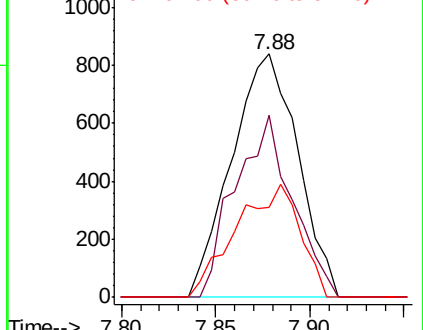
61 23.7 33.6 50.4#



Abundance Ion 97.00 (96.70 to 97.70): VW

Ion 99.00 (98.70 to 99.70): VW

Ion 61.00 (60.70 to 61.70): VW



#34

Benzene

Concen: 7.208 ug/L

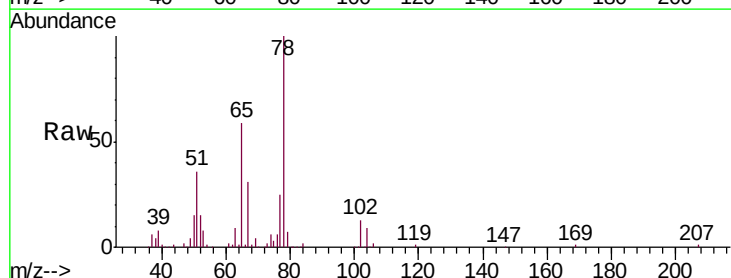
RT: 8.33 min Scan# 1054

Delta R.T. 0.01 min

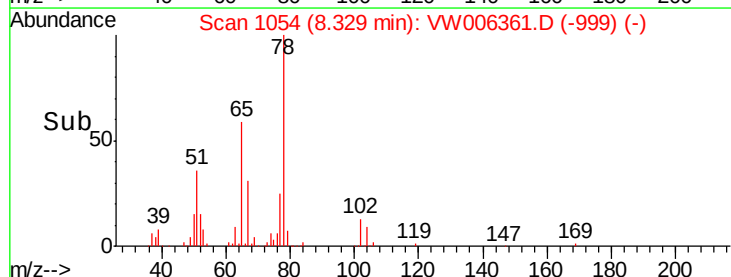
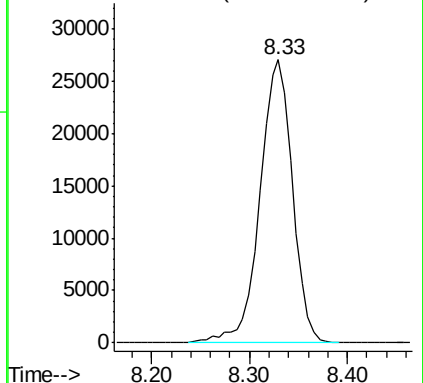
Lab File: VW006361.D

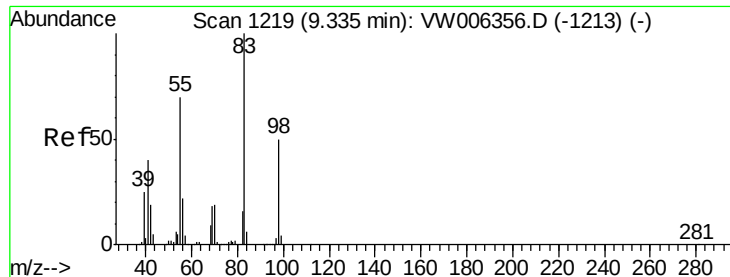
Acq: 25 Oct 2018 13:47

Tgt Ion: 78 Resp: 62334



Abundance Ion 78.00 (77.70 to 78.70): VW

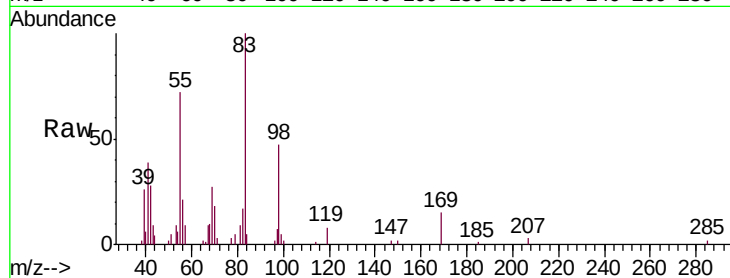




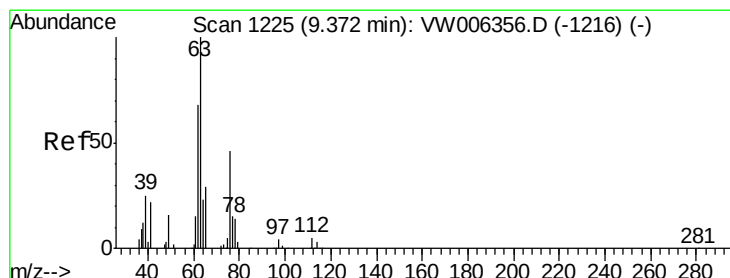
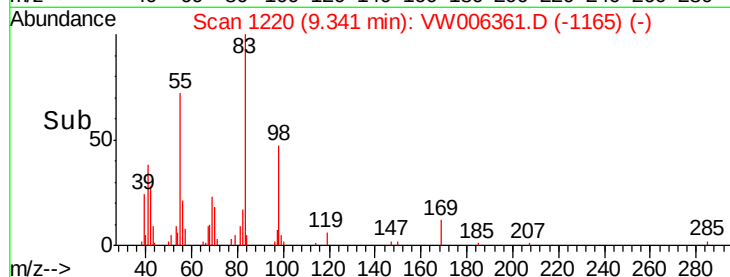
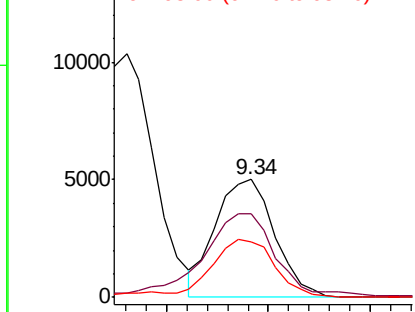
#36
Methylcyclohexane
Concen: 2.271 ug/L
RT: 9.34 min Scan# 1220
Delta R.T. 0.01 min
Lab File: VW006361.D
Acq: 25 Oct 2018 13:47

Instrument :
MSVOA_W
ClientSampleId :
A40G4

Tgt Ion: 83 Resp: 10126
Ion Ratio Lower Upper
83 100
55 87.2 57.1 85.7#
98 51.4 38.9 58.3

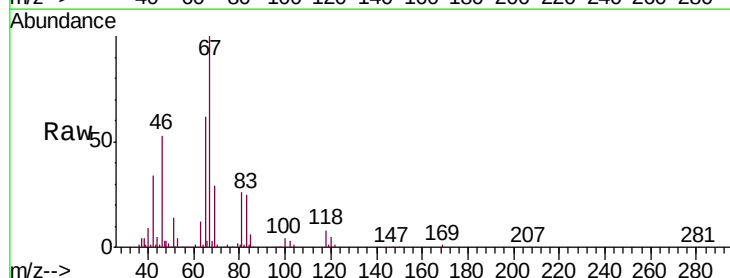


Abundance Ion 83.00 (82.70 to 83.70): VW
Ion 55.00 (54.70 to 55.70): VW
Ion 98.00 (97.70 to 98.70): VW

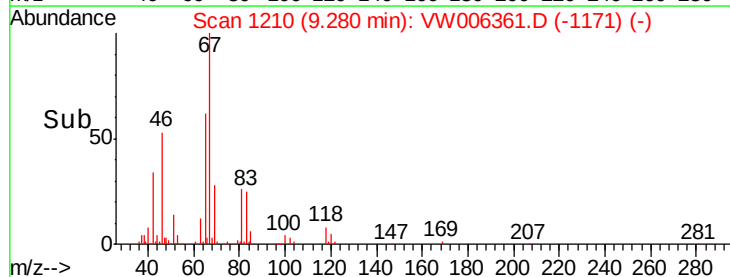
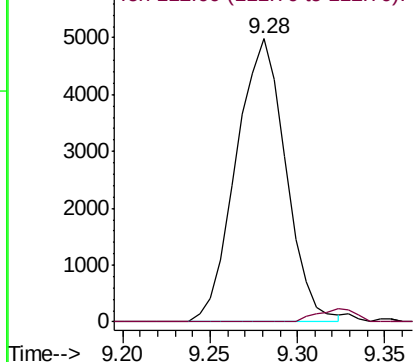


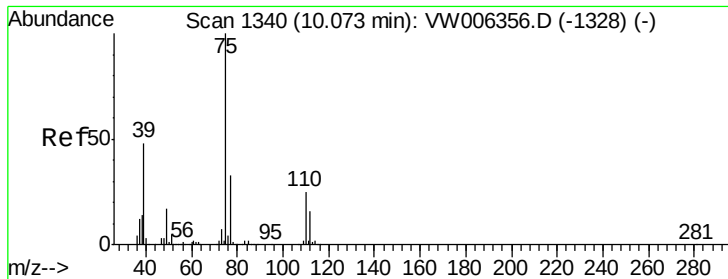
#40
1,2-Dichloropropane
Concen: 4.584 ug/L
RT: 9.28 min Scan# 1210
Delta R.T. -0.09 min
Lab File: VW006361.D
Acq: 25 Oct 2018 13:47

Tgt Ion: 63 Resp: 9834
Ion Ratio Lower Upper
63 100
112 4.6 3.5 5.3



Abundance Ion 63.00 (62.70 to 63.70): VW
Ion 112.00 (111.70 to 112.70): V





#42

cis-1,3-Dichloropropene

Concen: 0.689 ug/L

RT: 10.04 min Scan# 1335

Delta R.T. -0.03 min

Lab File: VW006361.D

Acq: 25 Oct 2018 13:47

Instrument :

MSVOA_W

ClientSampleId :

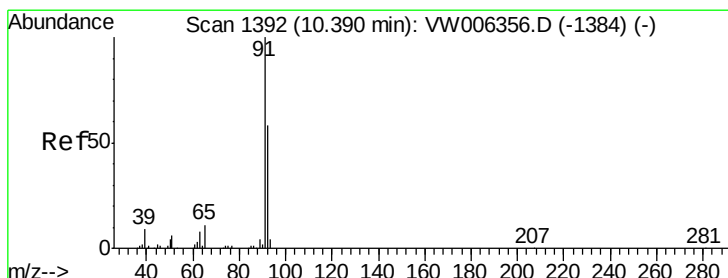
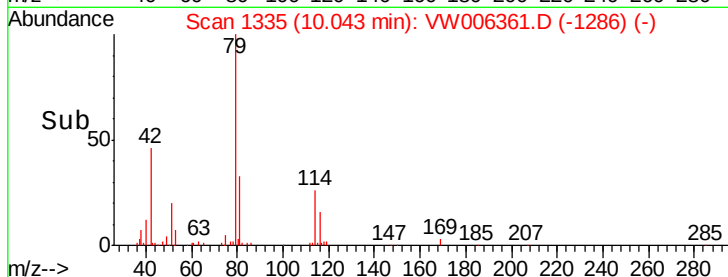
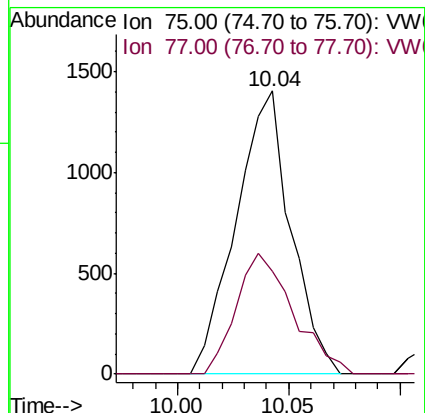
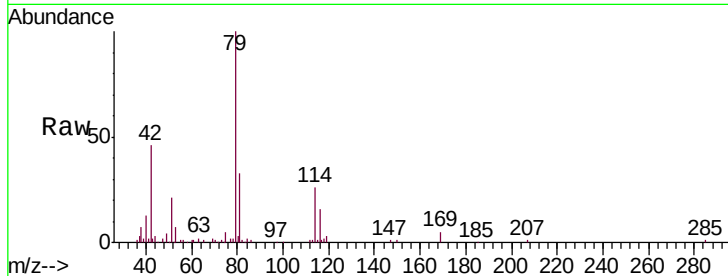
A40G4

Tgt Ion: 75 Resp: 2413

Ion Ratio Lower Upper

75 100

77 36.5 22.6 42.0



#44

Toluene

Concen: 14.152 ug/L

RT: 10.39 min Scan# 1392

Delta R.T. 0.00 min

Lab File: VW006361.D

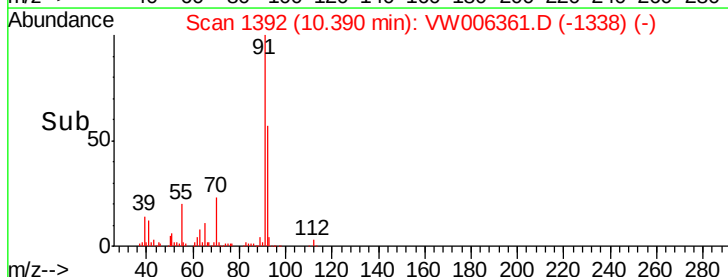
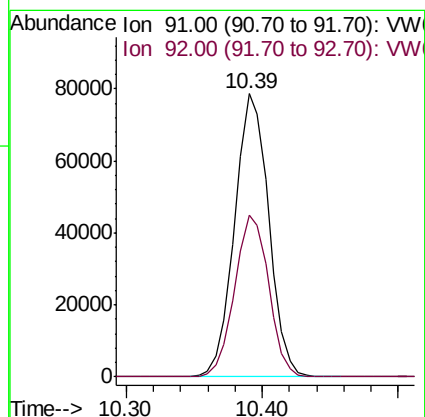
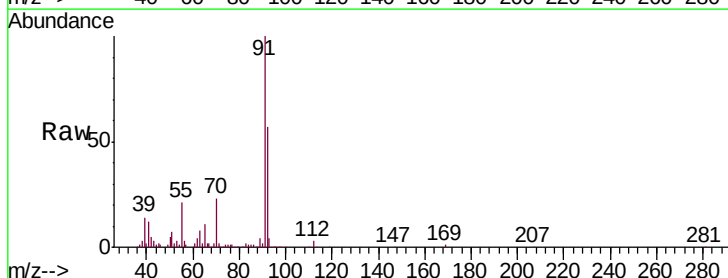
Acq: 25 Oct 2018 13:47

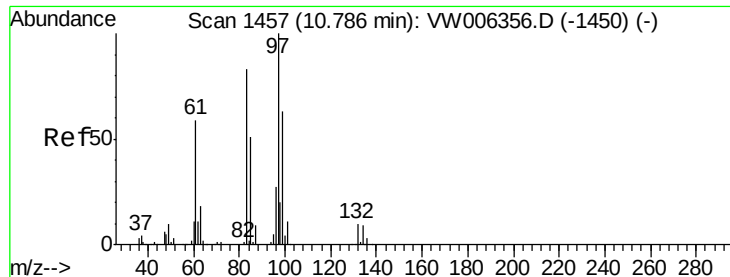
Tgt Ion: 91 Resp: 137415

Ion Ratio Lower Upper

91 100

92 56.9 40.4 75.0

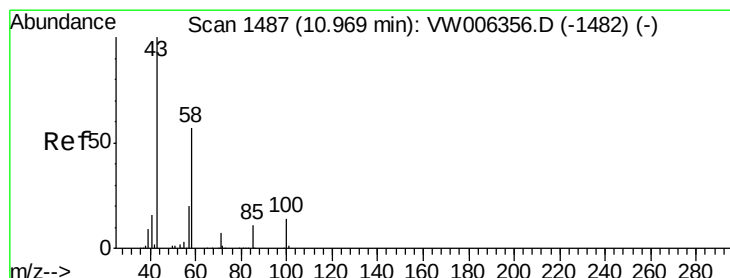
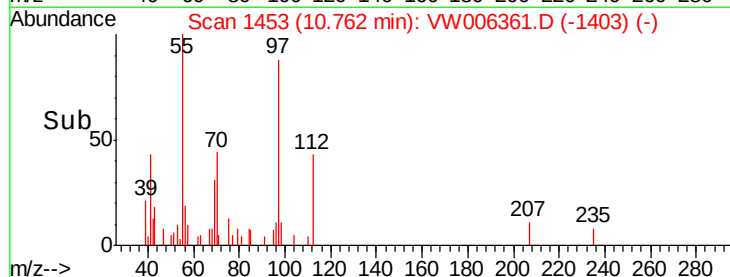
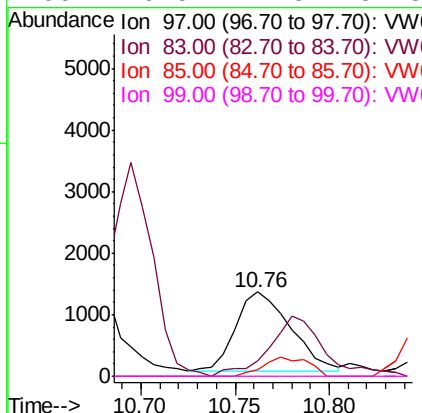
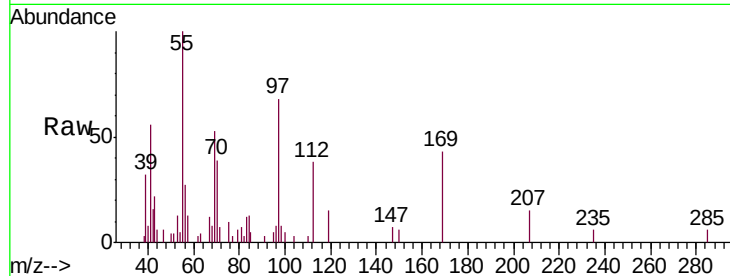




#46
 1,1,2-Trichloroethane
 Concen: 1.472 ug/L
 RT: 10.76 min Scan# 1453
 Delta R.T. -0.02 min
 Lab File: VW006361.D
 Acq: 25 Oct 2018 13:47

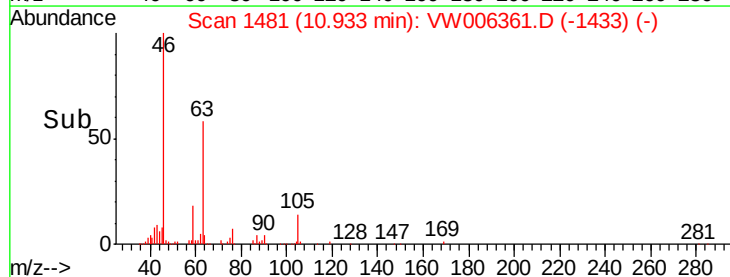
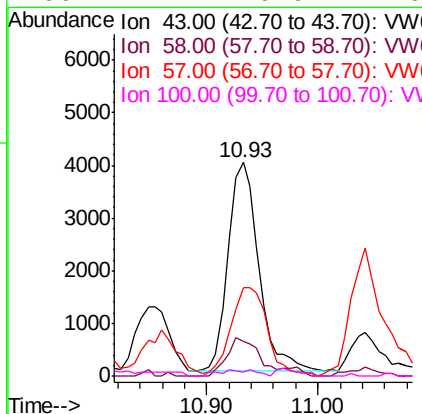
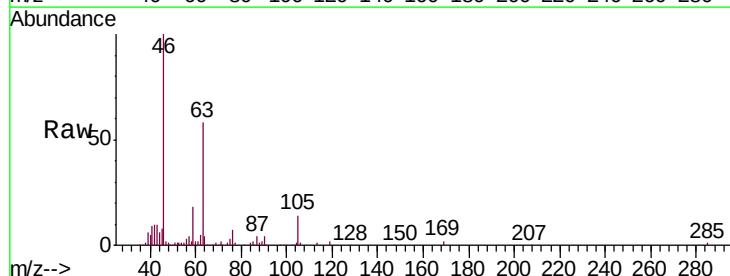
Instrument :
 MSVOA_W
 ClientSampled :
 A40G4

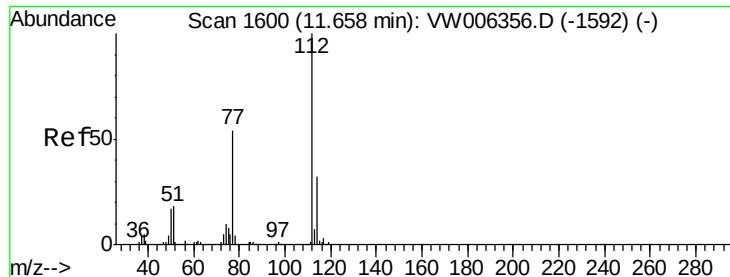
Tgt Ion: 97 Resp: 2630
 Ion Ratio Lower Upper
 97 100
 83 17.8 60.0 111.4#
 85 7.2 38.7 71.9#
 99 0.0 44.3 82.3#



#49
 2-Hexanone
 Concen: 5.987 ug/L
 RT: 10.93 min Scan# 1481
 Delta R.T. -0.04 min
 Lab File: VW006361.D
 Acq: 25 Oct 2018 13:47

Tgt Ion: 43 Resp: 7584
 Ion Ratio Lower Upper
 43 100
 58 18.5 42.1 63.1#
 57 46.0 15.1 22.7#
 100 1.2 9.9 14.9#





#52

Chlorobenzene

Concen: 49.917 ug/L

RT: 11.66 min Scan# 1601

Delta R.T. 0.01 min

Lab File: VW006361.D

Acq: 25 Oct 2018 13:47

Instrument :

MSVOA_W

ClientSampleId :

A40G4

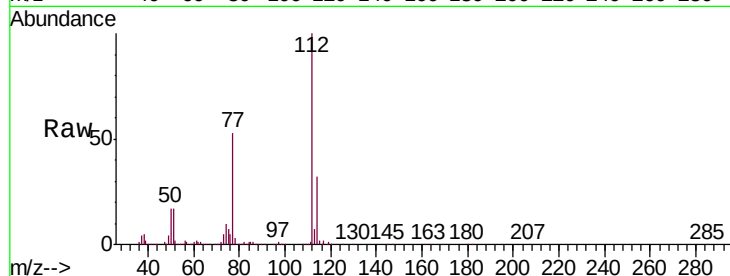
Tgt Ion: 112 Resp: 327997

Ion Ratio Lower Upper

112 100

77 52.8 44.2 66.2

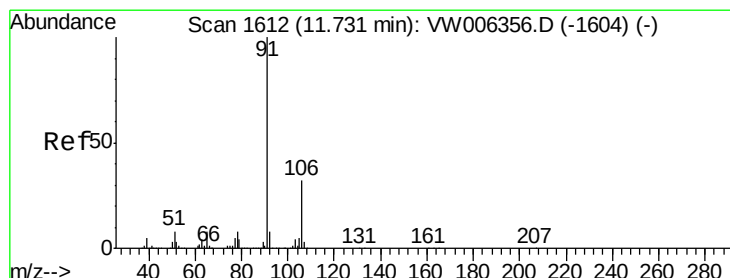
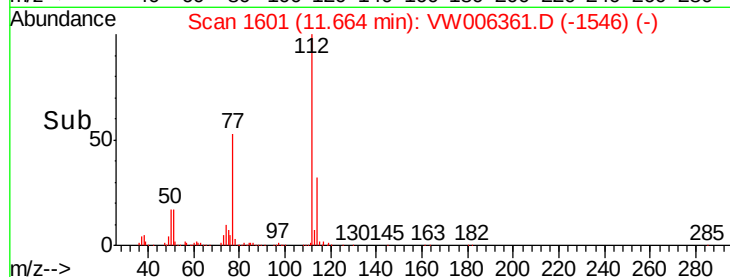
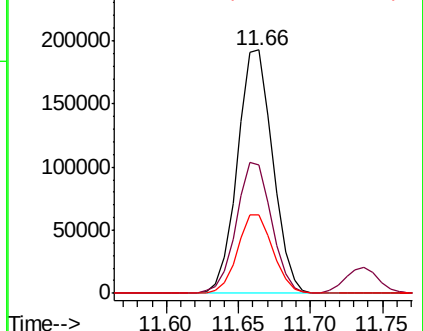
114 32.1 22.1 41.1



Abundance Ion 112.00 (111.70 to 112.70): V

Ion 77.00 (76.70 to 77.70): VW

Ion 114.00 (113.70 to 114.70): V



#53

Ethylbenzene

Concen: 34.650 ug/L

RT: 11.74 min Scan# 1613

Delta R.T. 0.01 min

Lab File: VW006361.D

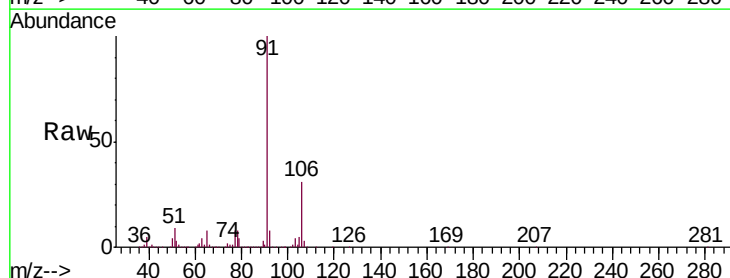
Acq: 25 Oct 2018 13:47

Tgt Ion: 91 Resp: 391678

Ion Ratio Lower Upper

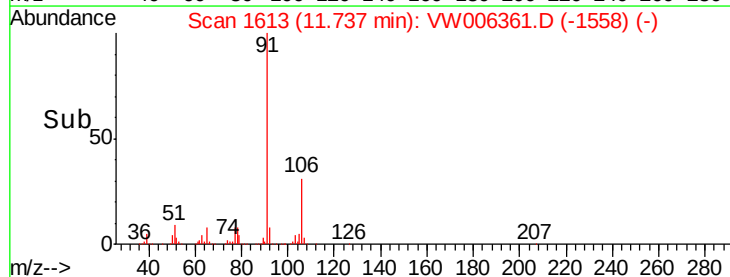
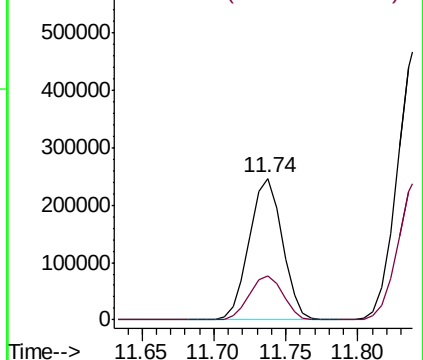
91 100

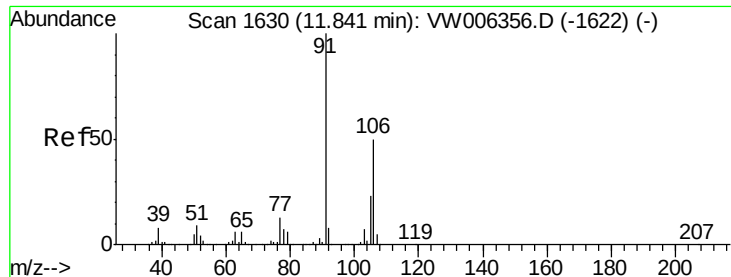
106 31.4 22.6 42.0



Abundance Ion 91.00 (90.70 to 91.70): VW

Ion 106.00 (105.70 to 106.70): V





#54

m,p-Xylene

Concen: 99.295 ug/L

RT: 11.84 min Scan# 1630

Delta R.T. 0.00 min

Lab File: VW006361.D

Acq: 25 Oct 2018 13:47

Instrument :

MSVOA_W

ClientSampled :

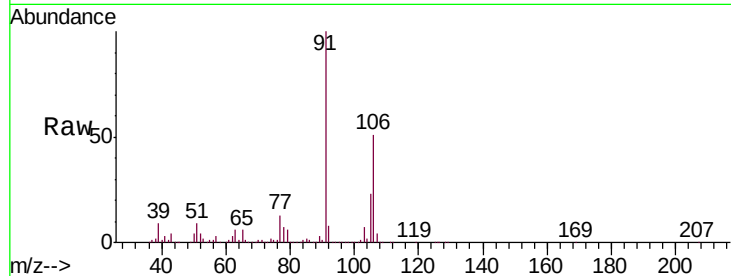
A40G4

Tgt Ion:106 Resp: 439965

Ion Ratio Lower Upper

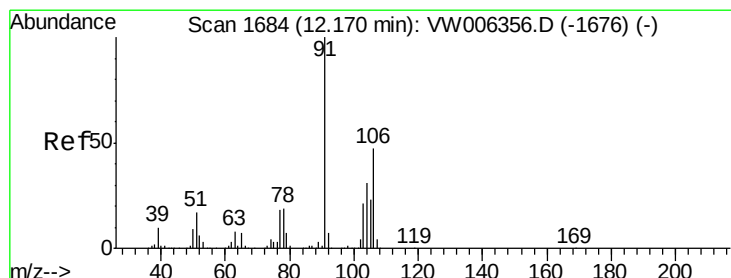
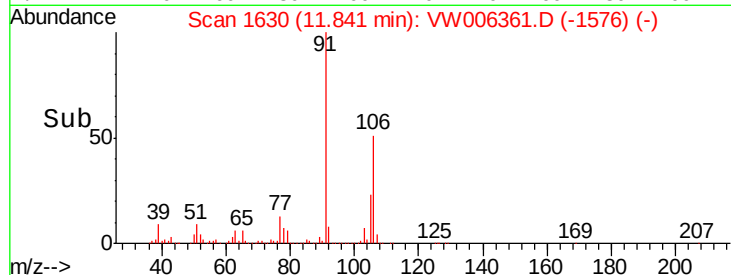
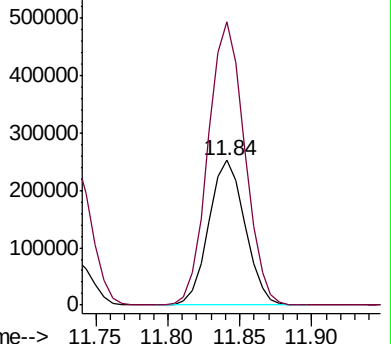
106 100

91 195.5 138.4 257.0



Abundance Ion 106.00 (105.70 to 106.70): V

Ion 91.00 (90.70 to 91.70): VW



#55

o-xylene

Concen: 52.950 ug/L

RT: 12.17 min Scan# 1684

Delta R.T. 0.00 min

Lab File: VW006361.D

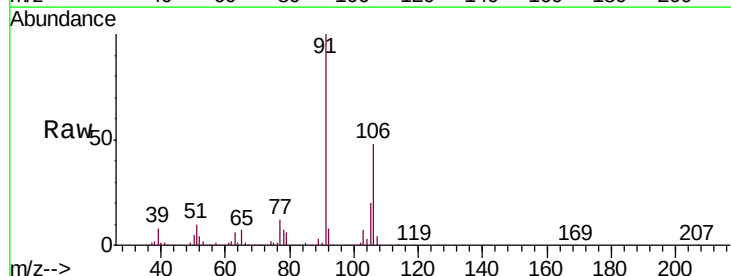
Acq: 25 Oct 2018 13:47

Tgt Ion:106 Resp: 224016

Ion Ratio Lower Upper

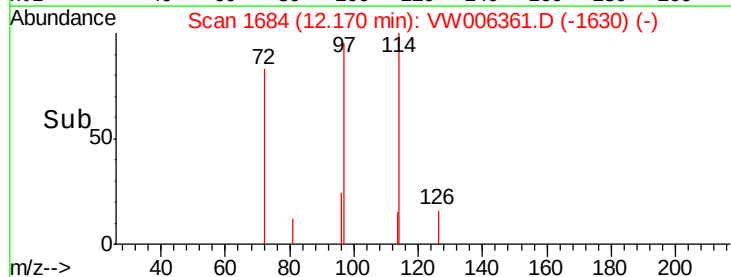
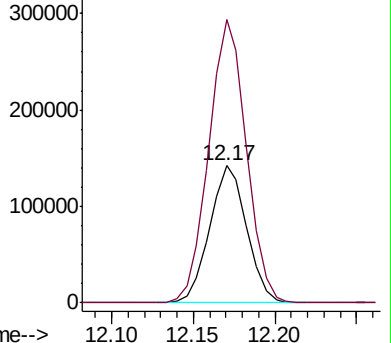
106 100

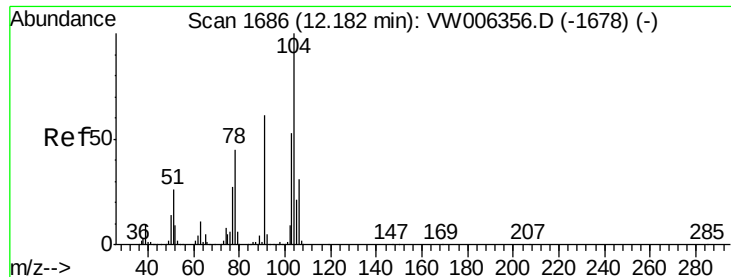
91 206.7 148.7 276.1



Abundance Ion 106.00 (105.70 to 106.70): V

Ion 91.00 (90.70 to 91.70): VW





#56

Styrene

Concen: 2.288 ug/L

RT: 12.18 min Scan# 1685

Delta R.T. -0.01 min

Lab File: VW006361.D

Acq: 25 Oct 2018 13:47

Instrument :

MSVOA_W

ClientSampled :

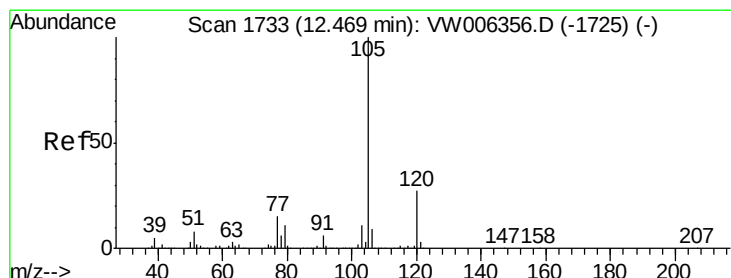
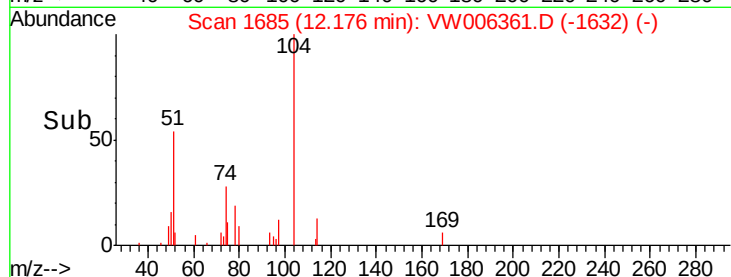
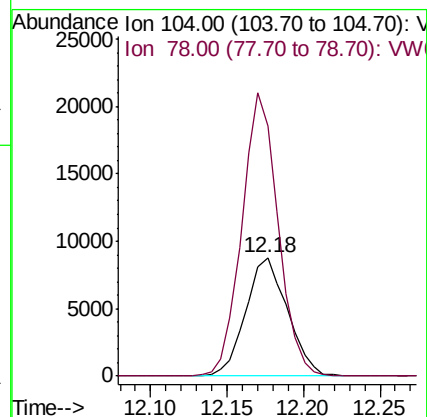
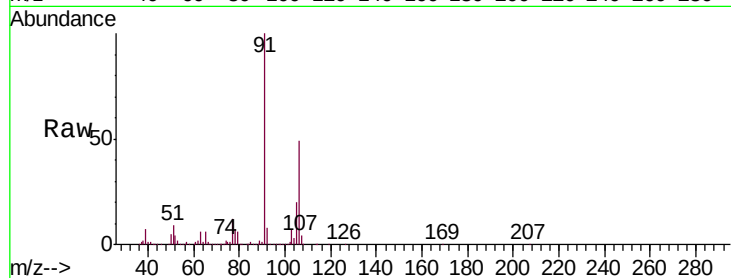
A40G4

Tgt Ion:104 Resp: 16666

Ion Ratio Lower Upper

104 100

78 211.5 31.2 58.0#



#57

Isopropylbenzene

Concen: 61.990 ug/L

RT: 12.47 min Scan# 1733

Delta R.T. 0.00 min

Lab File: VW006361.D

Acq: 25 Oct 2018 13:47

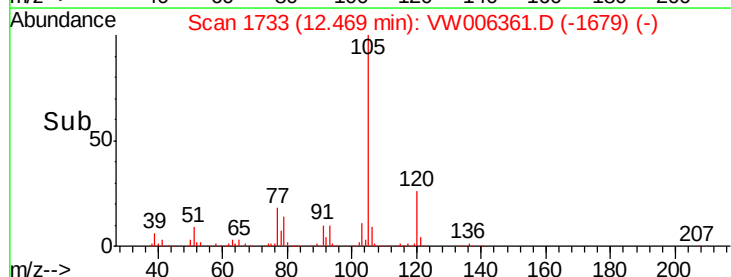
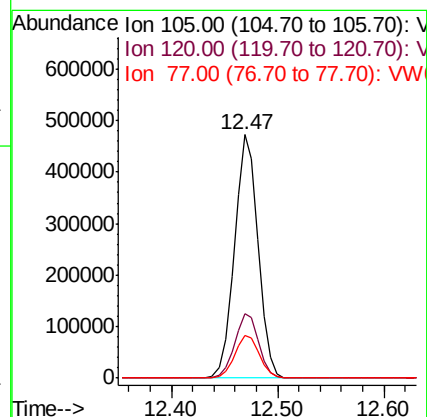
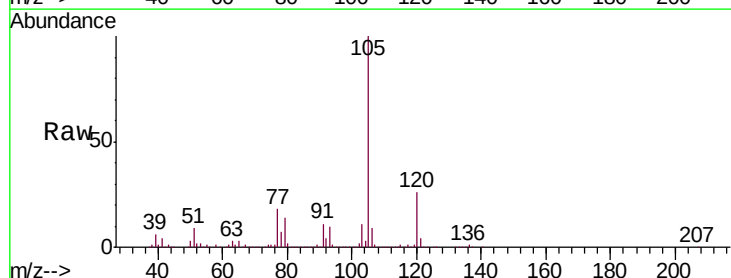
Tgt Ion:105 Resp: 729720

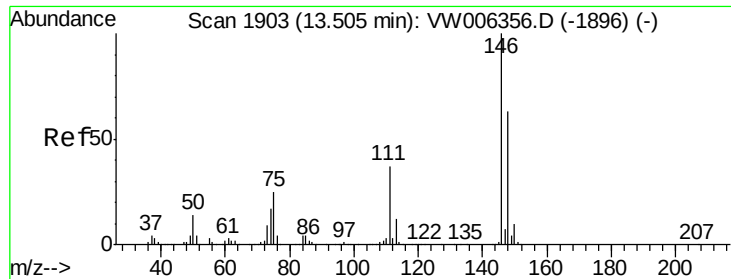
Ion Ratio Lower Upper

105 100

120 26.9 21.8 32.6

77 18.7 12.2 18.2#

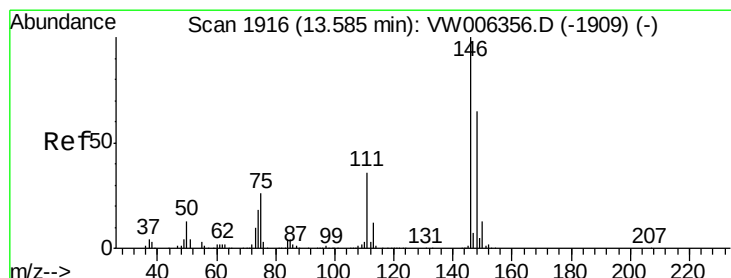
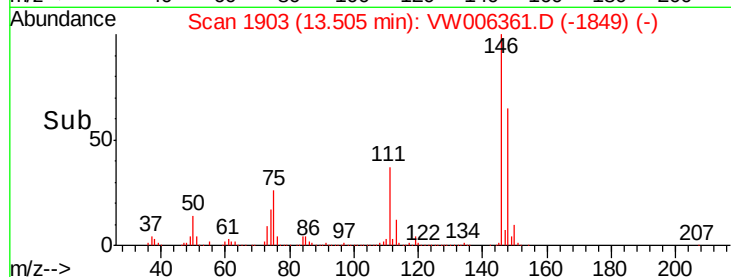
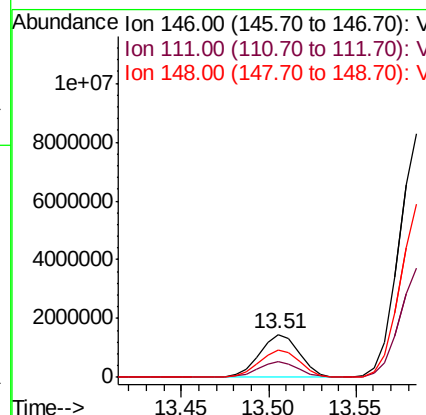
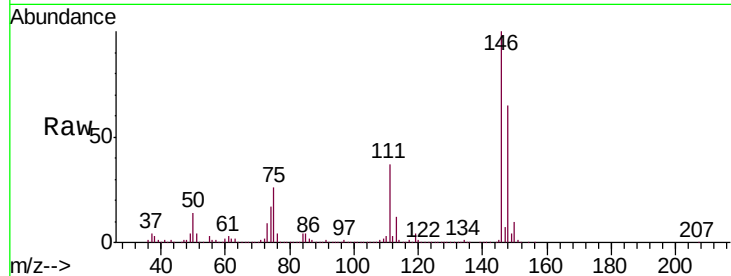




#63
 1,3-Dichlorobenzene
 Concen: 1502.643 ug/L
 RT: 13.51 min Scan# 1903
 Delta R.T. 0.00 min
 Lab File: VW006361.D
 Acq: 25 Oct 2018 13:47

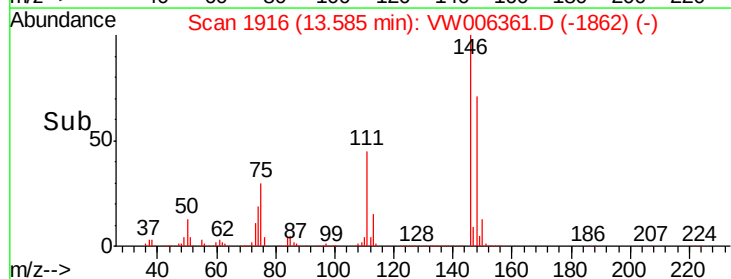
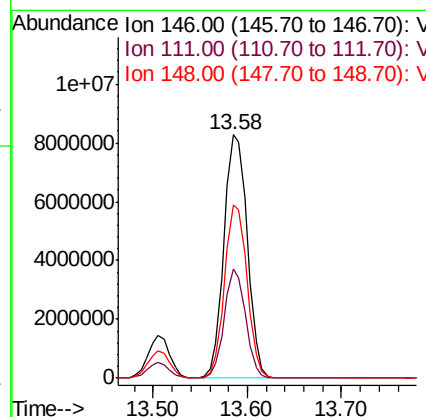
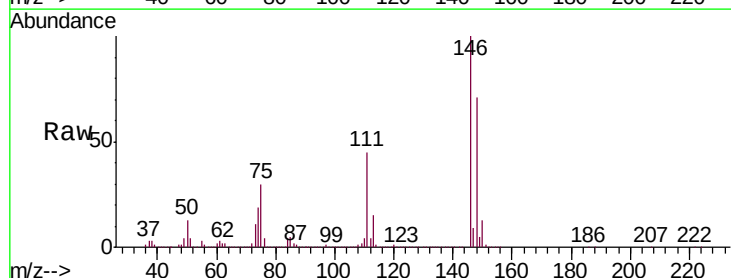
Instrument :
 MSVOA_W
 ClientSampled :
 A40G4

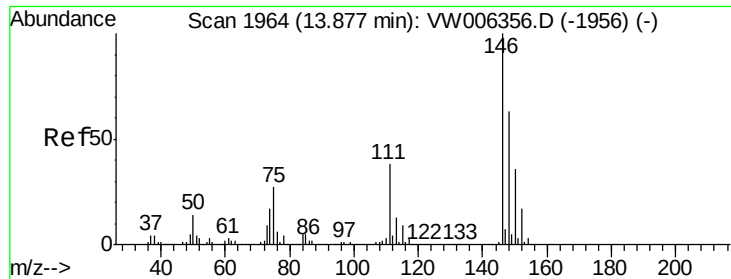
Tgt Ion:146 Resp: 2317461
 Ion Ratio Lower Upper
 146 100
 111 37.5 26.3 48.9
 148 64.5 44.7 82.9



#64
 1,4-Dichlorobenzene
 Concen: 9147.905 ug/L
 RT: 13.58 min Scan# 1916
 Delta R.T. 0.00 min
 Lab File: VW006361.D
 Acq: 25 Oct 2018 13:47

Tgt Ion:146 Resp:14207352
 Ion Ratio Lower Upper
 146 100
 111 45.0 24.7 45.9
 148 71.3 44.9 83.5





#65

1,2-Dichlorobenzene

Concen: 439.962 ug/L

RT: 13.88 min Scan# 1964

Delta R.T. 0.00 min

Lab File: VW006361.D

Acq: 25 Oct 2018 13:47

Instrument :

MSVOA_W

ClientSampleId :

A40G4

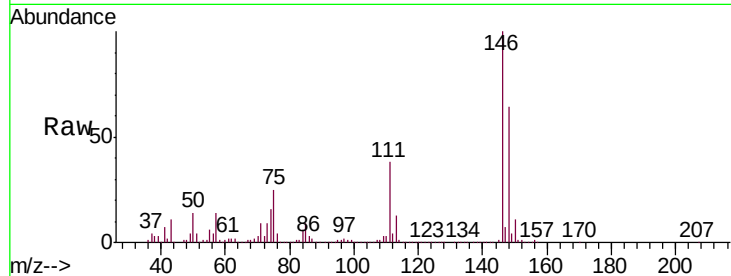
Tgt Ion:146 Resp: 624212

Ion Ratio Lower Upper

146 100

111 38.5 31.1 46.7

148 64.4 51.2 76.8

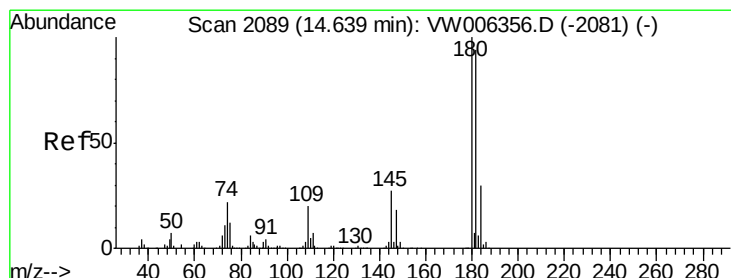
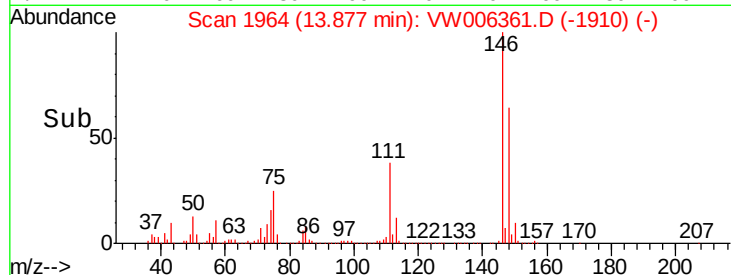
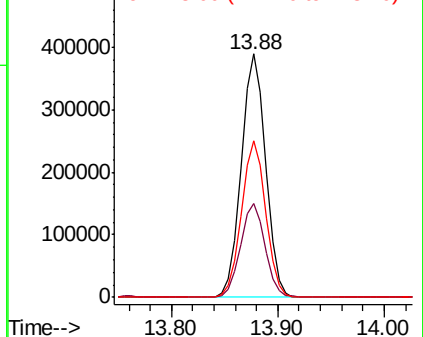


Abundance

Ion 146.00 (145.70 to 146.70): V

Ion 111.00 (110.70 to 111.70): V

Ion 148.00 (147.70 to 148.70): V



#67

1,3,5-Trichlorobenzene

Concen: 53.095 ug/L

RT: 15.15 min Scan# 2172

Delta R.T. 0.51 min

Lab File: VW006361.D

Acq: 25 Oct 2018 13:47

Tgt Ion:180 Resp: 66006

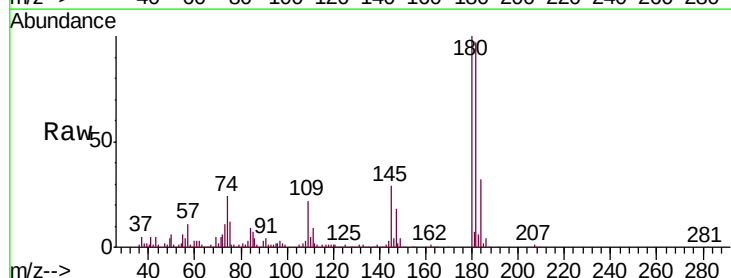
Ion Ratio Lower Upper

180 100

182 97.0 76.0 114.0

184 31.0 24.3 36.5

145 30.3 22.6 33.8



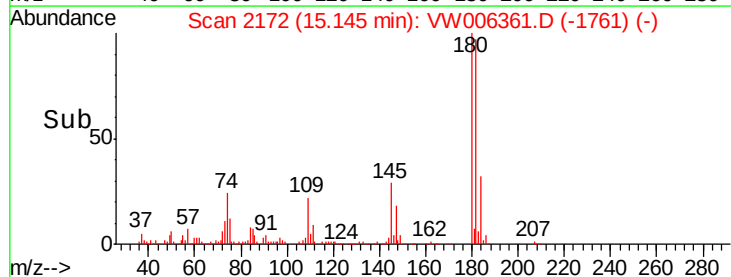
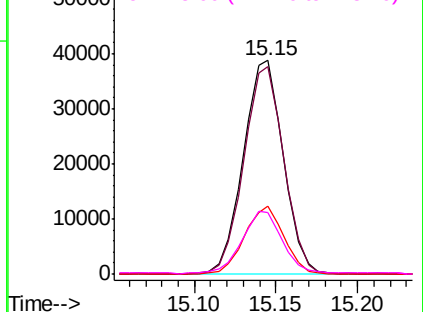
Abundance

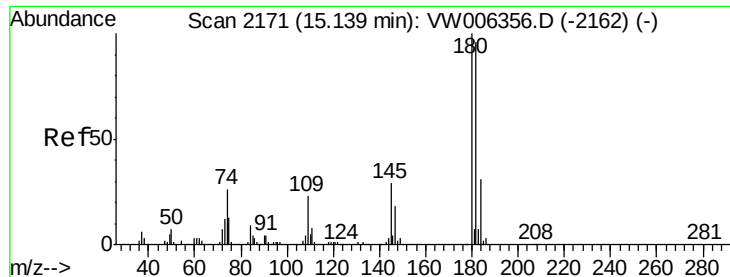
Ion 180.00 (179.70 to 180.70): V

Ion 182.00 (181.70 to 182.70): V

Ion 184.00 (183.70 to 184.70): V

Ion 145.00 (144.70 to 145.70): V

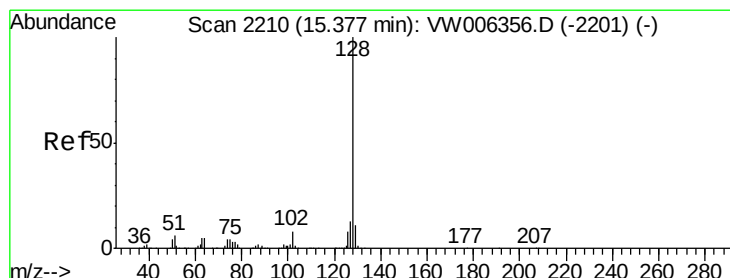
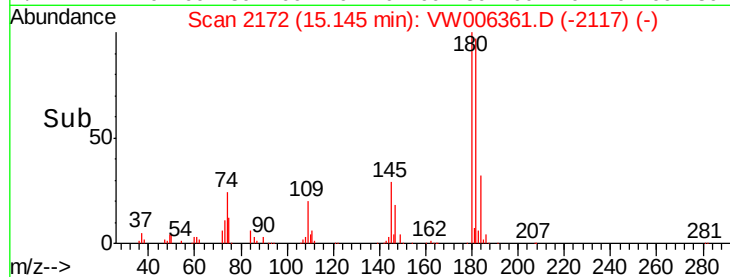
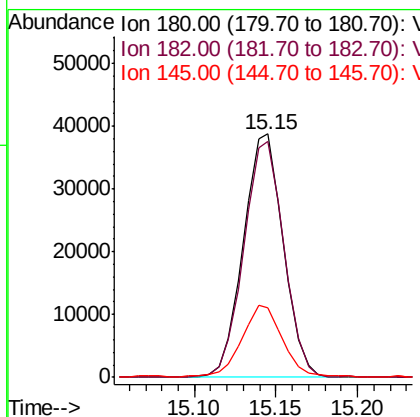
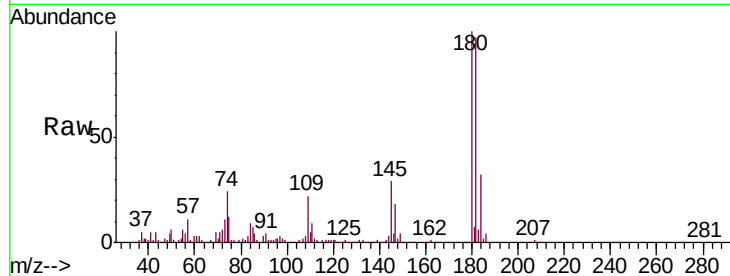




#68
 1,2,4-trichlorobenzene
 Concen: 62.266 ug/L
 RT: 15.15 min Scan# 2172
 Delta R.T. 0.01 min
 Lab File: VW006361.D
 Acq: 25 Oct 2018 13:47

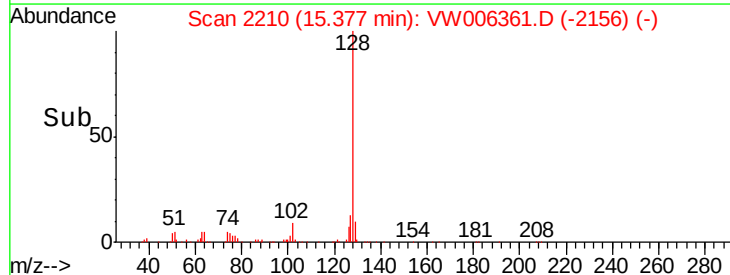
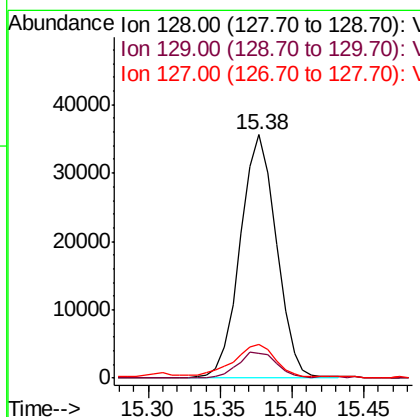
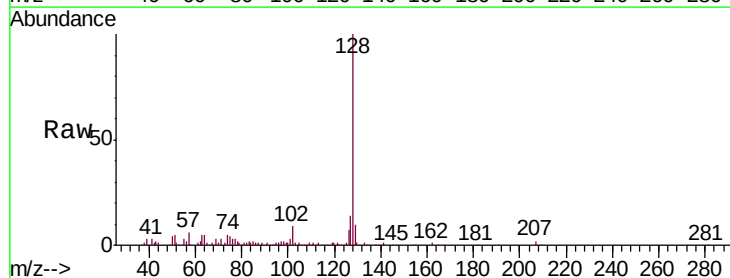
Instrument :
 MSVOA_W
 ClientSampleId :
 A40G4

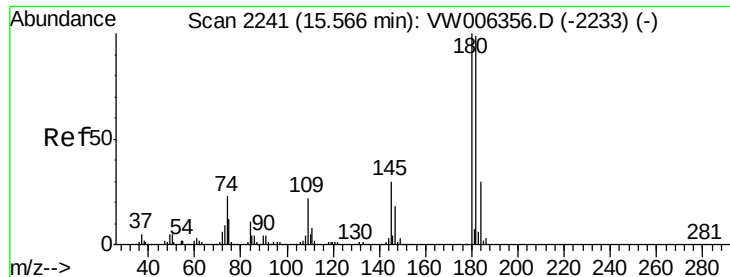
Tgt Ion	Ratio	Lower	Upper
180	100		
182	97.0	76.2	114.2
145	30.3	23.0	34.6



#69
 Naphthalene
 Concen: 28.760 ug/L
 RT: 15.38 min Scan# 2210
 Delta R.T. 0.00 min
 Lab File: VW006361.D
 Acq: 25 Oct 2018 13:47

Tgt Ion	Ratio	Lower	Upper
128	100		
129	11.6	8.9	13.3
127	15.7	10.5	15.7





#70
 1,2,3-Trichlorobenzene
 Concen: 10.093 ug/L
 RT: 15.57 min Scan# 2241
 Delta R.T. 0.00 min
 Lab File: VW006361.D
 Acq: 25 Oct 2018 13:47

Instrument :
 MSVOA_W
 ClientSampleId :
 A40G4

Tgt Ion	Ratio	Lower	Upper
180	100		
182	99.5	75.5	113.3
145	38.5	24.5	36.7

