

Data File : VW009680.D
Acq On : 04 Apr 2019 02:43
Operator : SY/VA
Sample : K2188-02
Misc : 4.86G/10ML/MSVOA_W/SOIL
ALS Vial : 1 Sample Multiplier: 1

Instrument :
MSVOA_W
ClientSampleId :
BF649

Quant Time: Apr 04 03:51:17 2019
Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_W\METHOD\SOM2WLM040319S.M
Quant Title : VOC Analysis
QLast Update : Thu Apr 04 02:03:18 2019
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Difluorobenzene	8.84	114	402381	25.00	ug/L	0.00
28) Chlorobenzene-d5	11.63	117	295664	25.00	ug/L	0.00
60) 1,4-Dichlorobenzene-d4	13.56	152	87707	25.00	ug/L	0.00

System Monitoring Compounds

4) Vinyl Chloride-d3	2.36	65	168335	31.97	ug/L	0.00
Spiked Amount	25.000	Range	30 - 150	Recovery	=	127.88%
7) Chloroethane-d5	2.89	69	149549	31.00	ug/L	0.00
Spiked Amount	25.000	Range	30 - 150	Recovery	=	124.00%
10) 1,1-Dichloroethene-d2	4.01	63	251443	22.20	ug/L	-0.01
Spiked Amount	25.000	Range	45 - 110	Recovery	=	88.80%
20) 2-Butanone-d5	7.07	46	92140	53.90	ug/L	0.00
Spiked Amount	50.000	Range	20 - 135	Recovery	=	107.80%
24) Chloroform-d	7.64	84	290960	26.50	ug/L	0.00
Spiked Amount	25.000	Range	40 - 150	Recovery	=	106.00%
26) 1,2-Dichloroethane-d4	8.30	65	182473	27.07	ug/L	0.00
Spiked Amount	25.000	Range	70 - 130	Recovery	=	108.28%
29) Benzene-d6	8.27	84	573193	36.93	ug/L	0.00
Spiked Amount	25.000	Range	20 - 135	Recovery	=	147.72%#
33) 1,2-Dichloropropane-d6	9.27	67	170729	35.61	ug/L	0.00
Spiked Amount	25.000	Range	70 - 120	Recovery	=	142.44%#
37) Toluene-d8	10.32	98	447868	31.21	ug/L	0.00
Spiked Amount	25.000	Range	30 - 130	Recovery	=	124.84%
38) trans-1,3-Dichloropropene-	10.57	79	45870	20.06	ug/L	0.00
Spiked Amount	25.000	Range	30 - 135	Recovery	=	80.24%
39) 2-Hexanone-d5	10.93	63	61148	67.67	ug/L	0.00
Spiked Amount	50.000	Range	20 - 135	Recovery	=	135.34%#
48) 1,1,2,2-Tetrachloroethane-	12.69	84	105891	23.76	ug/L	0.00
Spiked Amount	25.000	Range	45 - 120	Recovery	=	95.04%
61) 1,2-Dichlorobenzene-d4	13.85	152	83155	27.02	ug/L	0.00
Spiked Amount	25.000	Range	75 - 120	Recovery	=	108.08%

Target Compounds

					Qvalue
13) Acetone	4.12	43	30655	16.735	ug/L 99
14) Carbon disulfide	4.37	76	21801	1.312	ug/L 97
16) Methylene chloride	4.91	84	32016	4.512	ug/L 95
25) Chloroform	7.67	83	9837	0.880	ug/L # 57
30) Cyclohexane	7.91	56	2345	0.336	ug/L # 58
36) Methylcyclohexane	9.34	83	2637	0.345	ug/L # 80
42) cis-1,3-Dichloropropene	10.04	75	4193	0.594	ug/L # 72
44) Toluene	10.39	91	11304	0.600	ug/L 94
45) trans-1,3-Dichloropropene	10.58	75	2792	0.459	ug/L # 52
49) 2-Hexanone	10.93	43	15181	5.764	ug/L # 55
52) Chlorobenzene	11.66	112	10229	0.843	ug/L 90
53) Ethylbenzene	11.73	91	16475	0.767	ug/L 98
54) m,p-Xylene	11.84	106	3589	0.452	ug/L 85
55) o-xylene	12.16	106	12212	1.615	ug/L 92
57) Isopropylbenzene	12.47	105	6276	0.303	ug/L # 70
63) 1,3-Dichlorobenzene	13.50	146	19168	3.533	ug/L # 70
64) 1,4-Dichlorobenzene	13.58	146	32887	5.684	ug/L # 88

Data Path : Z:\VOASRV\HPCHEM1\MSVOA_W\DATA\VW040319\
Quantitation Report (Not Reviewed)

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Quant Title : VOC Analysis
QLast Update : Thu Apr 04 02:03:18 2019
Response via : Initial Calibration

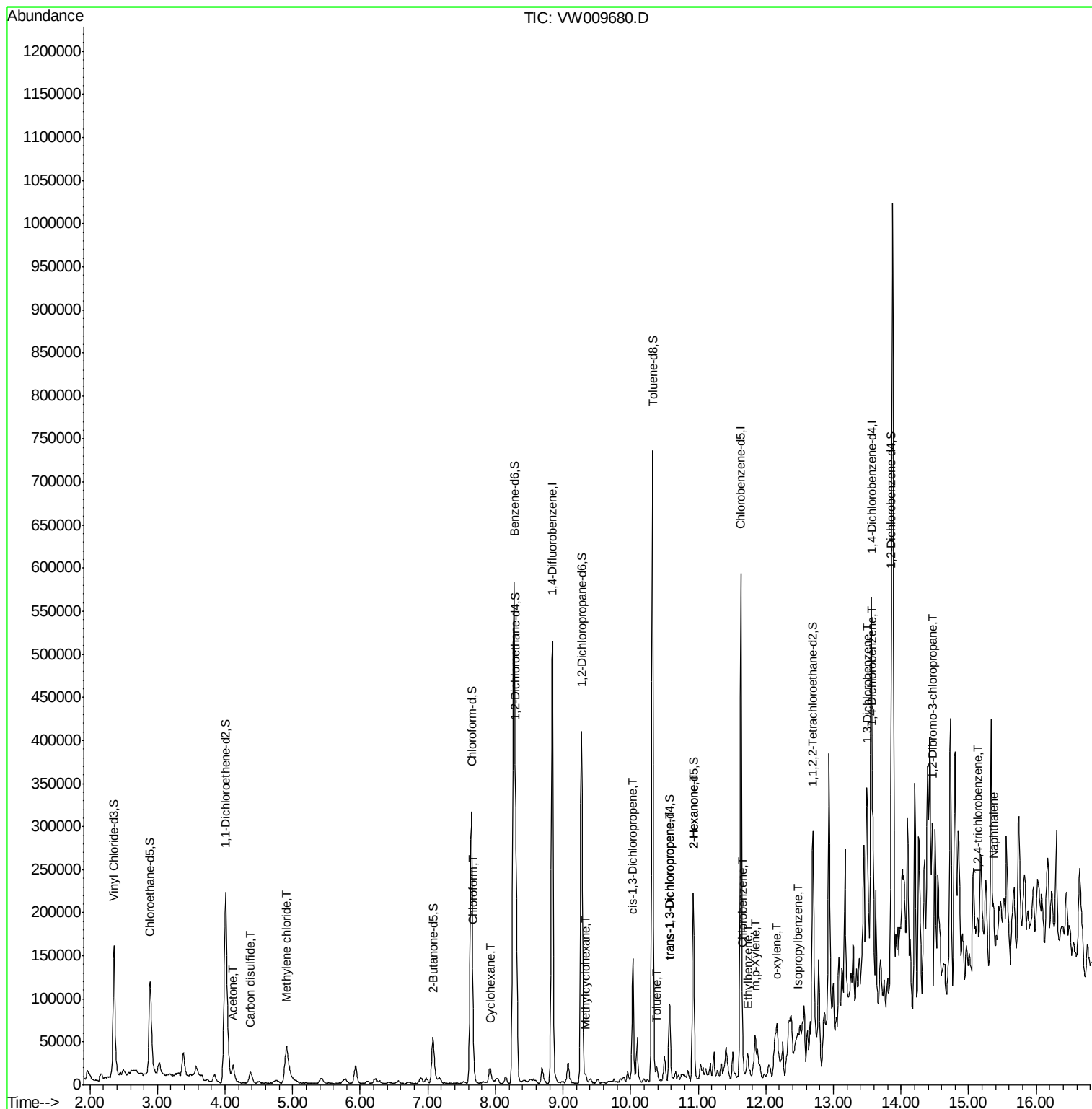
Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
66) 1,2-Dibromo-3-chloropropan	14.46	75	1622	3.210	ug/L #	13
68) 1,2,4-trichlorobenzene	15.13	180	4596	1.422	ug/L #	1
69) Naphthalene	15.37	128	47361	7.289	ug/L	98

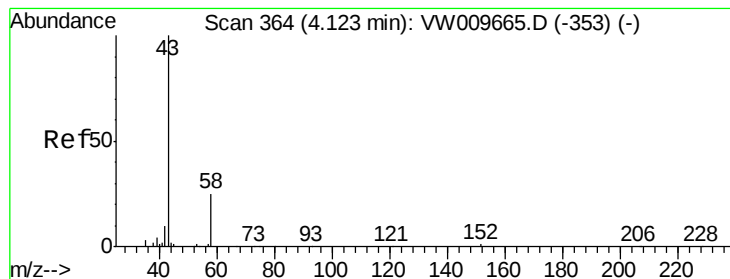
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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#13

Acetone

Concen: 16.735 ug/L

RT: 4.12 min Scan# 363

Delta R.T. -0.01 min

Lab File: VW009680.D

Acq: 04 Apr 2019 02:43

Instrument :

MSVOA_W

ClientSampleId :

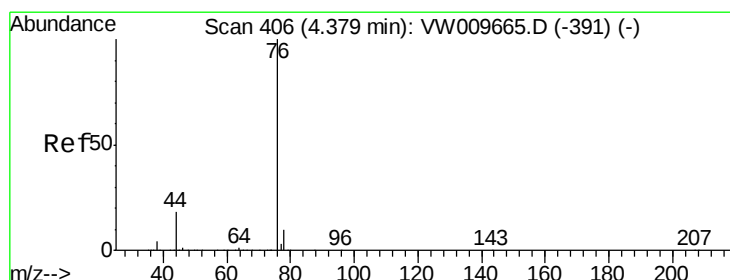
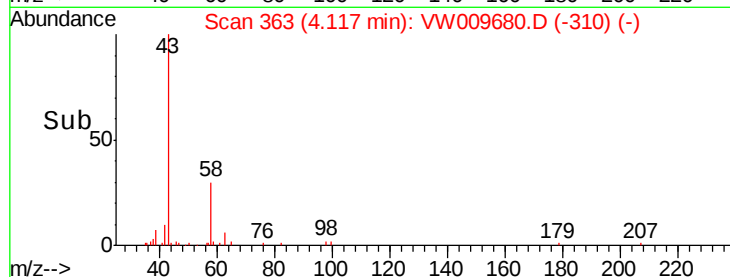
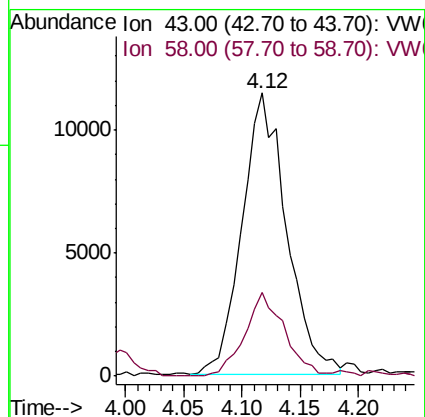
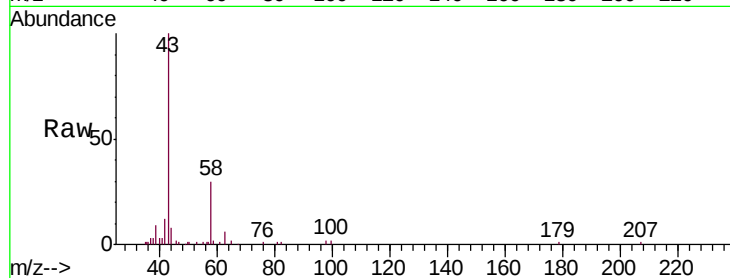
BF649

Tgt Ion: 43 Resp: 30655

Ion Ratio Lower Upper

43 100

58 26.1 0.0 53.0



#14

Carbon disulfide

Concen: 1.312 ug/L

RT: 4.37 min Scan# 405

Delta R.T. -0.01 min

Lab File: VW009680.D

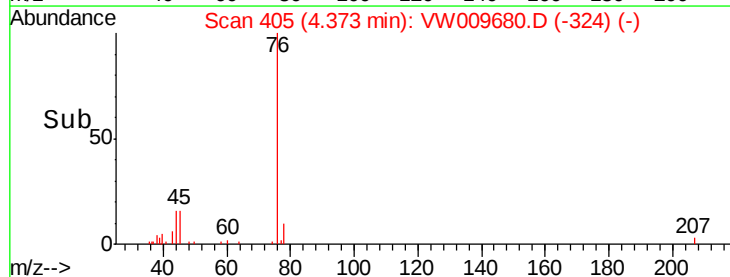
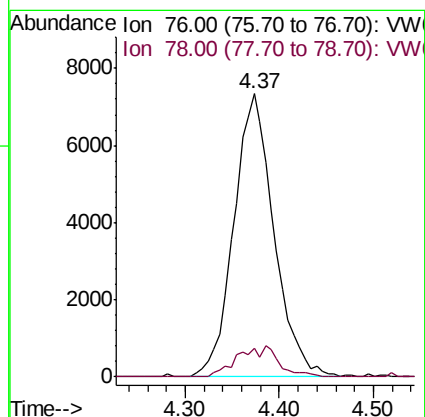
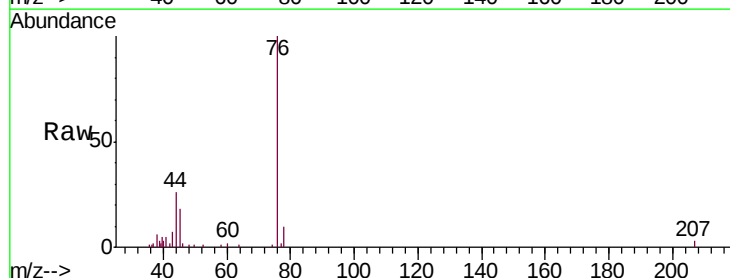
Acq: 04 Apr 2019 02:43

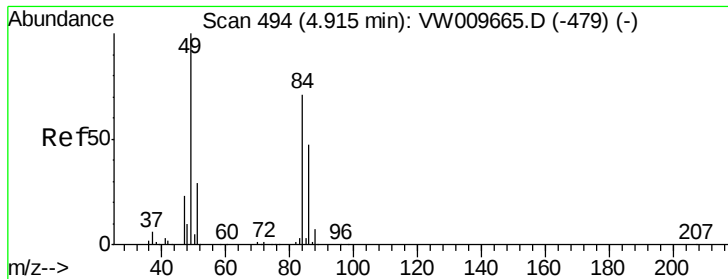
Tgt Ion: 76 Resp: 21801

Ion Ratio Lower Upper

76 100

78 10.0 7.3 10.9

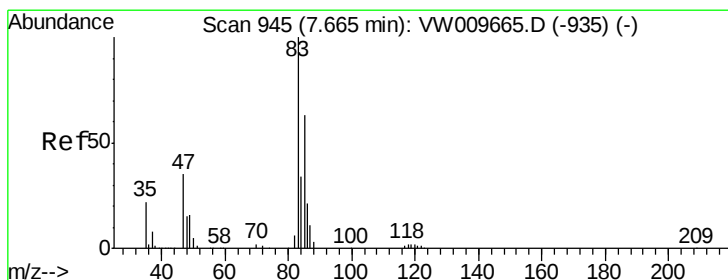
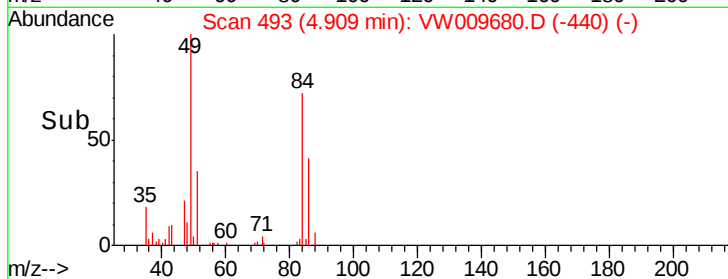
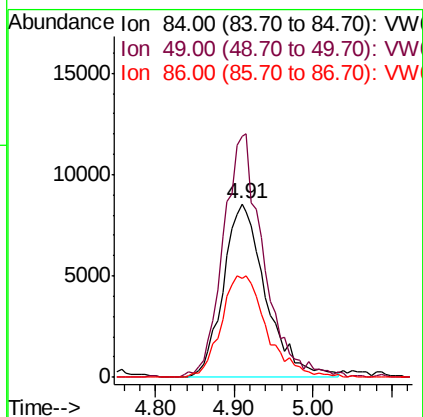
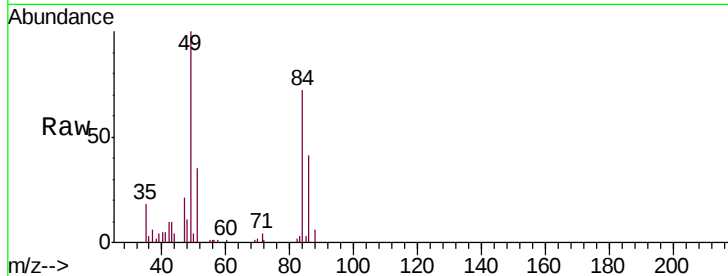




#16
Methylene chloride
Concen: 4.512 ug/L
RT: 4.91 min Scan# 493
Delta R.T. -0.01 min
Lab File: VW009680.D
Acq: 04 Apr 2019 02:43

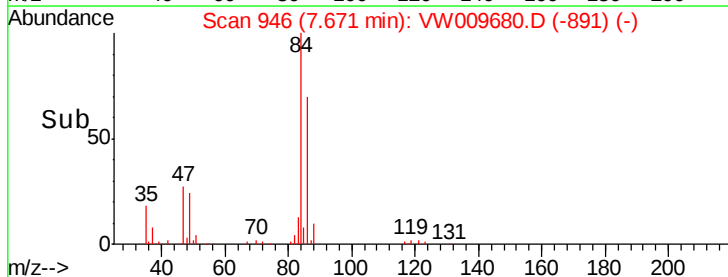
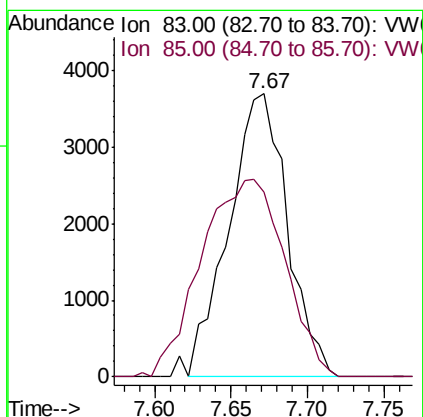
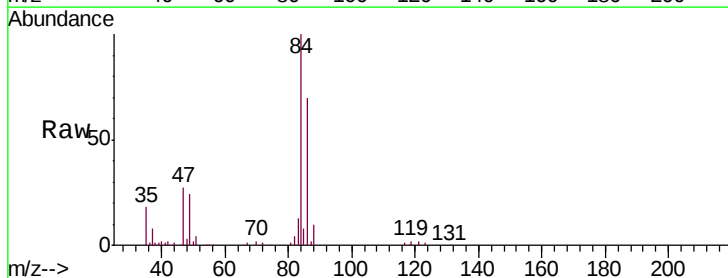
Instrument :
MSVOA_W
ClientSampleId :
BF649

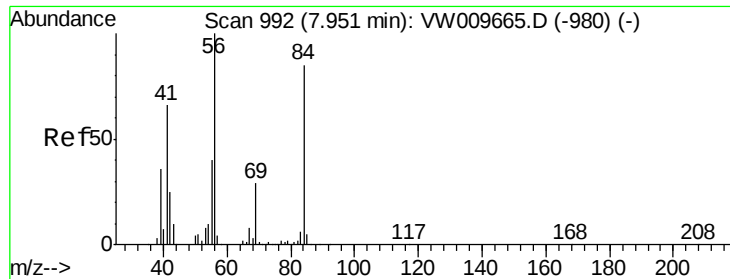
Tgt Ion: 84 Resp: 32016
Ion Ratio Lower Upper
84 100
49 138.5 98.3 182.5
86 57.0 46.4 86.2



#25
Chloroform
Concen: 0.880 ug/L
RT: 7.67 min Scan# 946
Delta R.T. 0.01 min
Lab File: VW009680.D
Acq: 04 Apr 2019 02:43

Tgt Ion: 83 Resp: 9837
Ion Ratio Lower Upper
83 100
85 99.2 45.6 84.8#

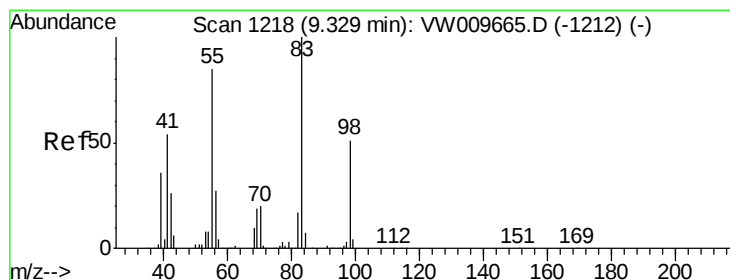
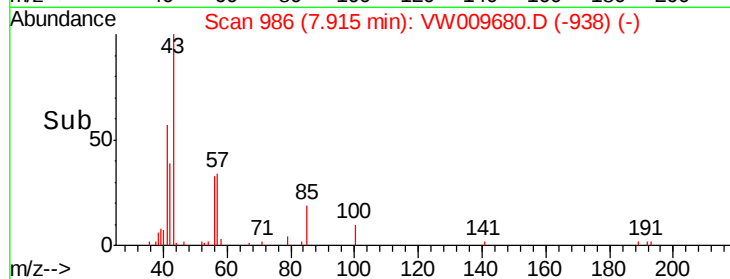
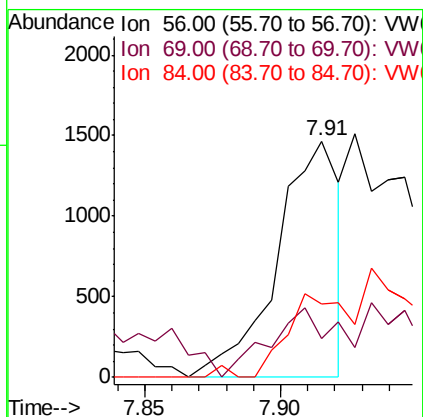
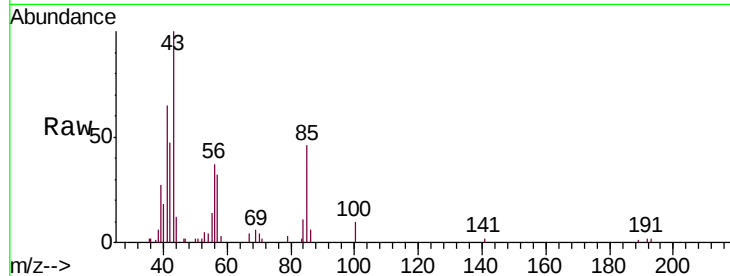




#30
Cyclohexane
Concen: 0.336 ug/L
RT: 7.91 min Scan# 986
Delta R.T. -0.04 min
Lab File: VW009680.D
Acq: 04 Apr 2019 02:43

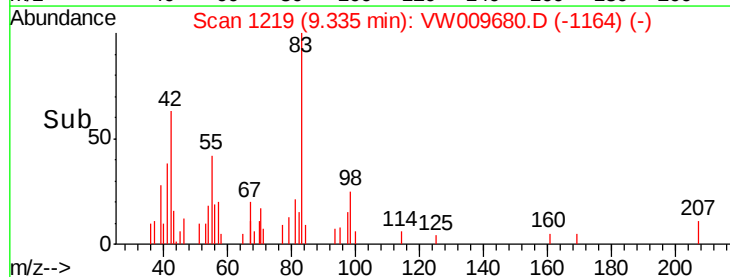
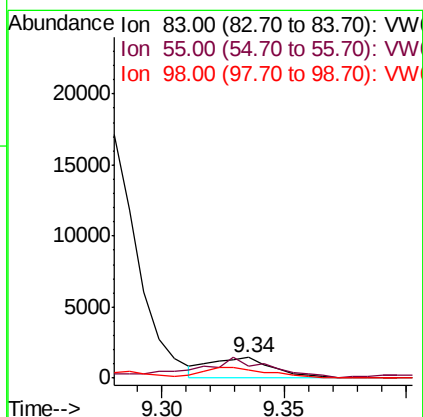
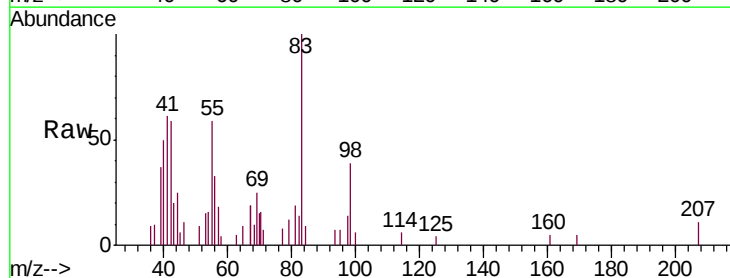
Instrument :
MSVOA_W
ClientSampleId :
BF649

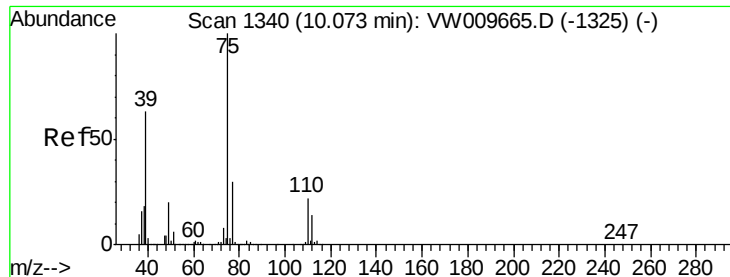
Tgt Ion: 56 Resp: 2345
Ion Ratio Lower Upper
56 100
69 32.1 23.4 35.2
84 34.4 67.7 101.5#



#36
Methylcyclohexane
Concen: 0.345 ug/L
RT: 9.34 min Scan# 1219
Delta R.T. 0.01 min
Lab File: VW009680.D
Acq: 04 Apr 2019 02:43

Tgt Ion: 83 Resp: 2637
Ion Ratio Lower Upper
83 100
55 107.6 66.3 99.5#
98 54.0 39.4 59.0





#42

cis-1,3-Dichloropropene

Concen: 0.594 ug/L

RT: 10.04 min Scan# 1334

Delta R.T. -0.04 min

Lab File: VW009680.D

Acq: 04 Apr 2019 02:43

Instrument :

MSVOA_W

ClientSampled :

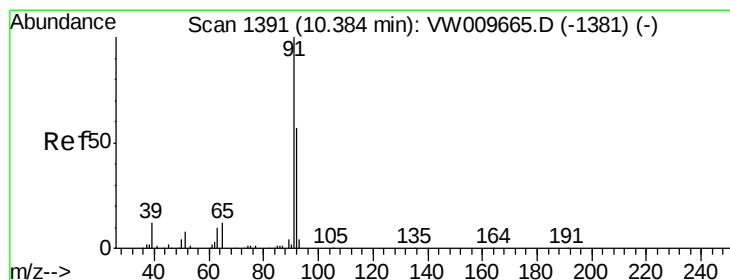
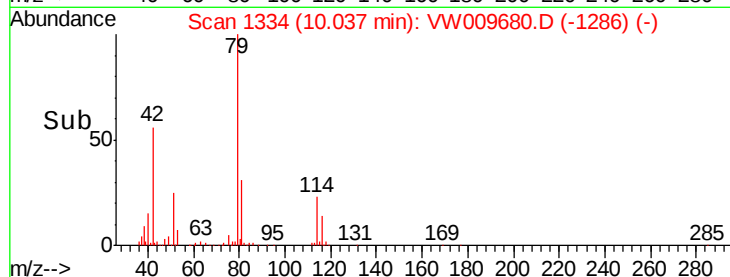
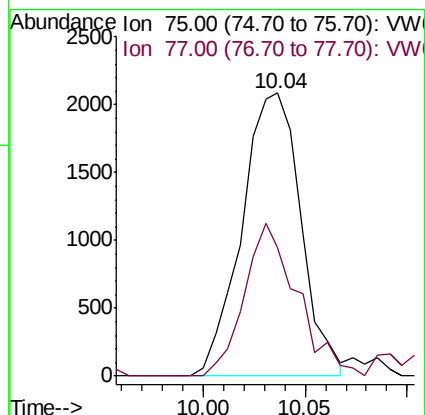
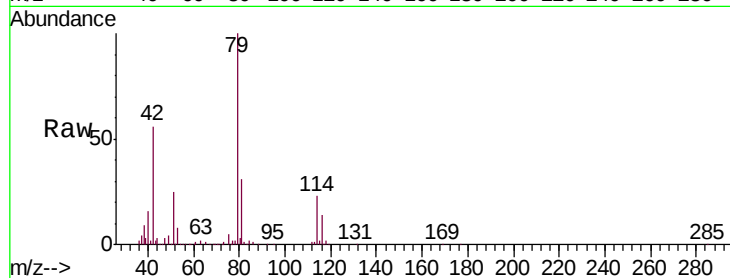
BF649

Tgt Ion: 75 Resp: 4193

Ion Ratio Lower Upper

75 100

77 45.4 21.0 39.0#



#44

Toluene

Concen: 0.600 ug/L

RT: 10.39 min Scan# 1392

Delta R.T. 0.01 min

Lab File: VW009680.D

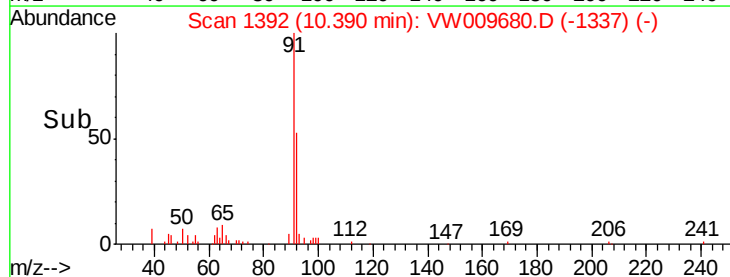
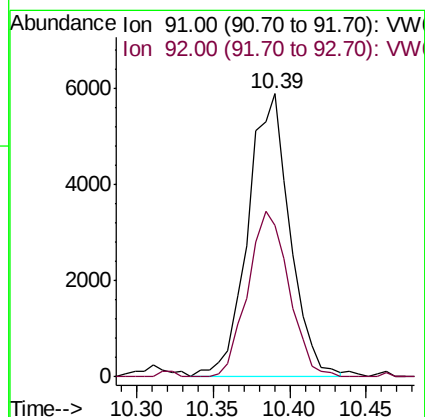
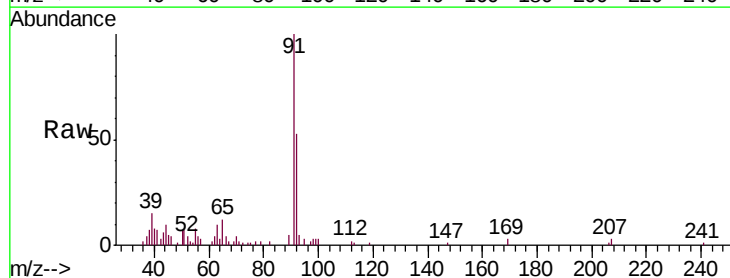
Acq: 04 Apr 2019 02:43

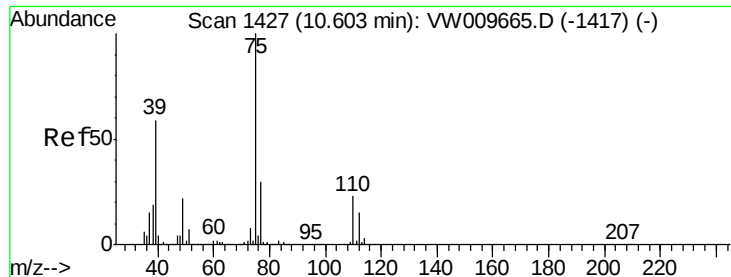
Tgt Ion: 91 Resp: 11304

Ion Ratio Lower Upper

91 100

92 53.4 40.5 75.1





#45

trans-1,3-Dichloropropene

Concen: 0.459 ug/L

RT: 10.58 min Scan# 1423

Delta R.T. -0.02 min

Lab File: VW009680.D

Acq: 04 Apr 2019 02:43

Instrument :

MSVOA_W

ClientSampleId :

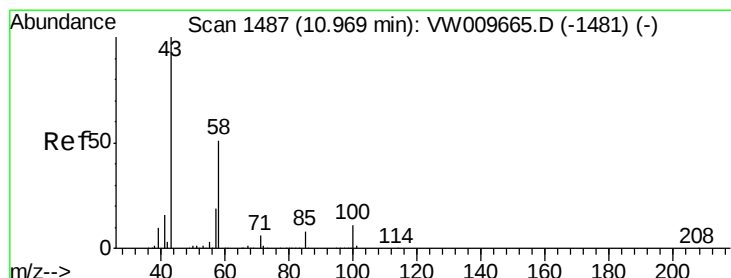
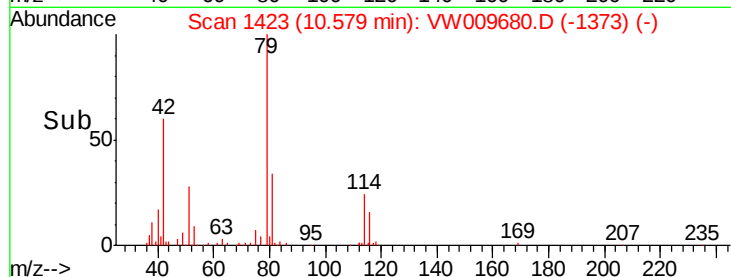
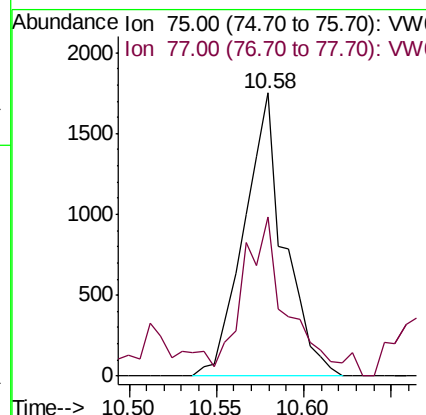
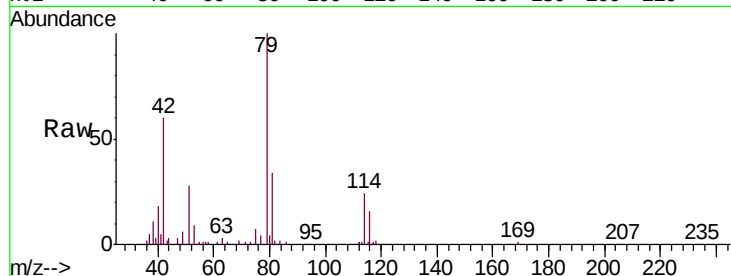
BF649

Tgt Ion: 75 Resp: 2792

Ion Ratio Lower Upper

75 100

77 56.2 21.1 39.3#



#49

2-Hexanone

Concen: 5.764 ug/L

RT: 10.93 min Scan# 1481

Delta R.T. -0.04 min

Lab File: VW009680.D

Acq: 04 Apr 2019 02:43

Tgt Ion: 43 Resp: 15181

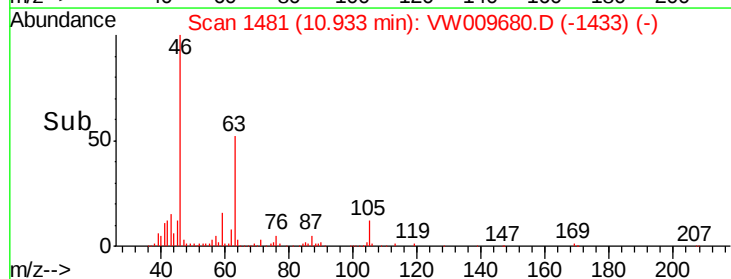
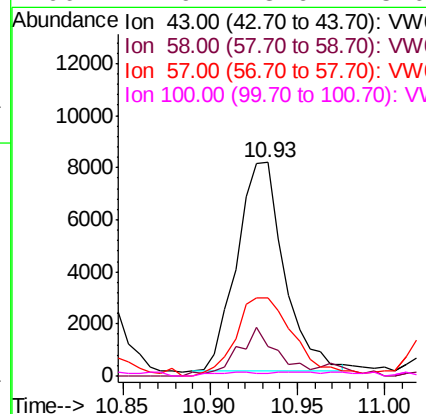
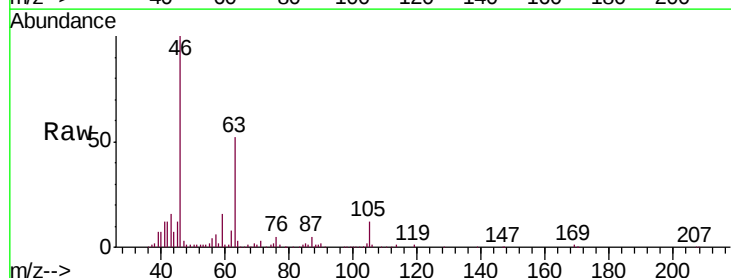
Ion Ratio Lower Upper

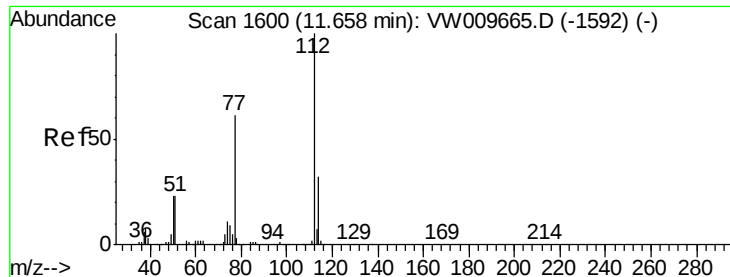
43 100

58 19.7 38.9 58.3#

57 45.8 13.8 20.6#

100 1.9 8.6 13.0#





#52

Chlorobenzene

Concen: 0.843 ug/L

RT: 11.66 min Scan# 1600

Delta R.T. 0.00 min

Lab File: VW009680.D

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Instrument :

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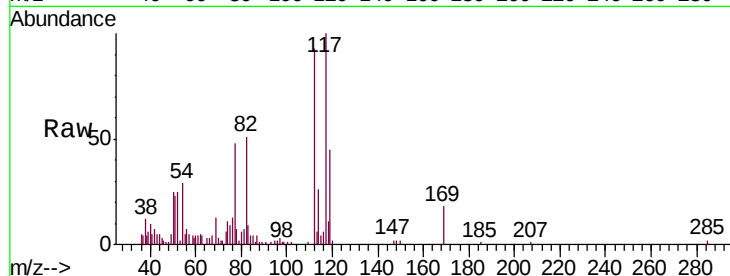
Tgt Ion: 112 Resp: 10229

Ion Ratio Lower Upper

112 100

77 51.7 48.2 72.2

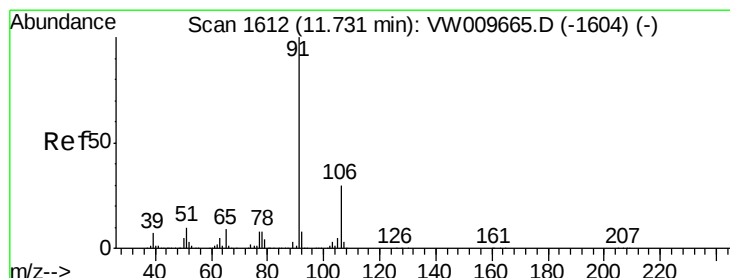
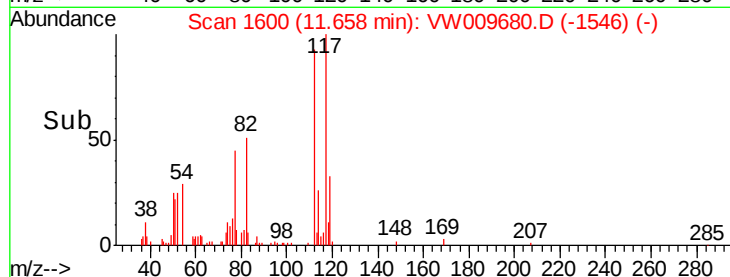
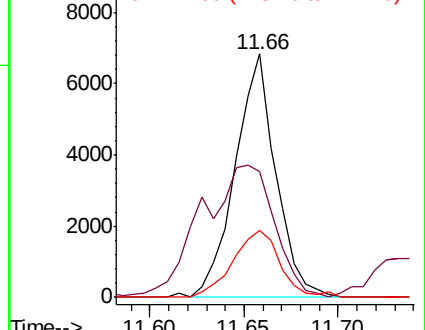
114 27.6 23.0 42.6



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: 0.767 ug/L

RT: 11.73 min Scan# 1612

Delta R.T. 0.00 min

Lab File: VW009680.D

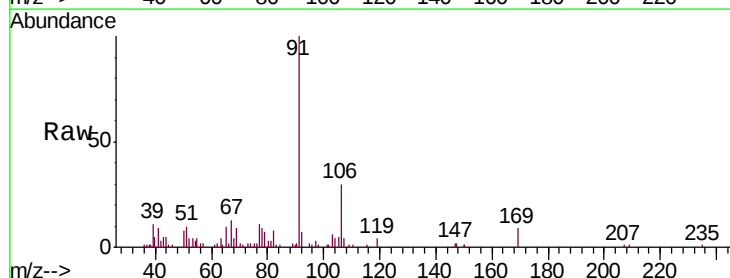
Acq: 04 Apr 2019 02:43

Tgt Ion: 91 Resp: 16475

Ion Ratio Lower Upper

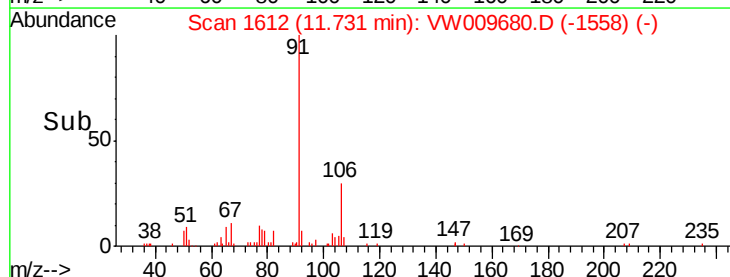
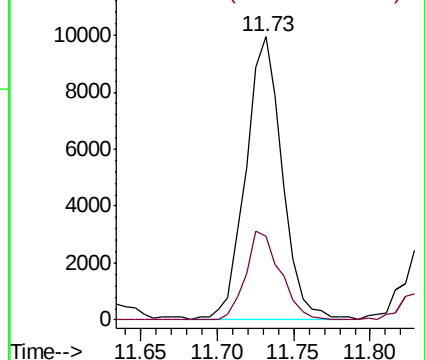
91 100

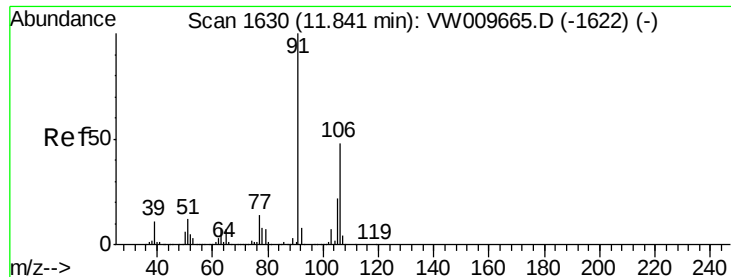
106 29.7 21.5 39.9



Abundance Ion 91.00 (90.70 to 91.70): VW

Ion 106.00 (105.70 to 106.70): V





#54

m,p-Xylene

Concen: 0.452 ug/L

RT: 11.84 min Scan# 1630

Delta R.T. 0.00 min

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ClientSampled :

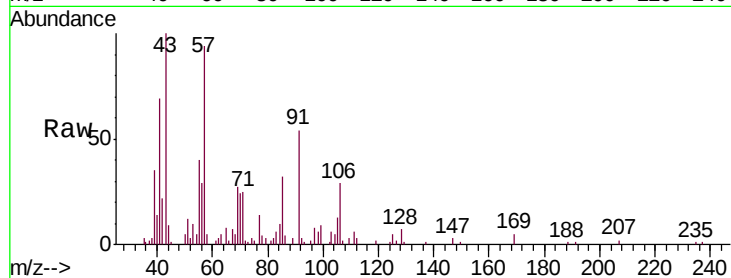
BF649

Tgt Ion:106 Resp: 3589

Ion Ratio Lower Upper

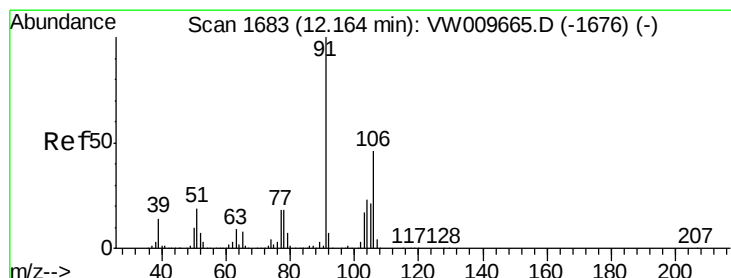
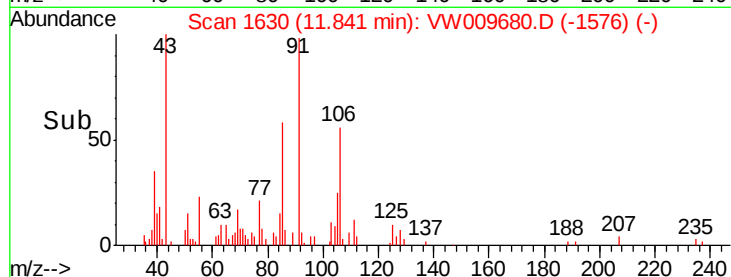
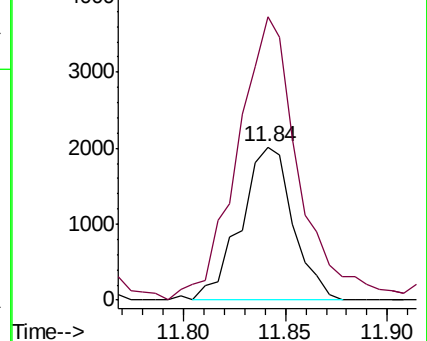
106 100

91 185.0 145.3 269.9



Abundance Ion 106.00 (105.70 to 106.70): V

Ion 91.00 (90.70 to 91.70): VW



#55

o-xylene

Concen: 1.615 ug/L

RT: 12.16 min Scan# 1683

Delta R.T. 0.00 min

Lab File: VW009680.D

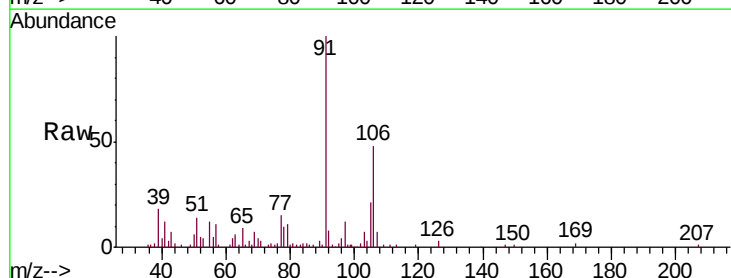
Acq: 04 Apr 2019 02:43

Tgt Ion:106 Resp: 12212

Ion Ratio Lower Upper

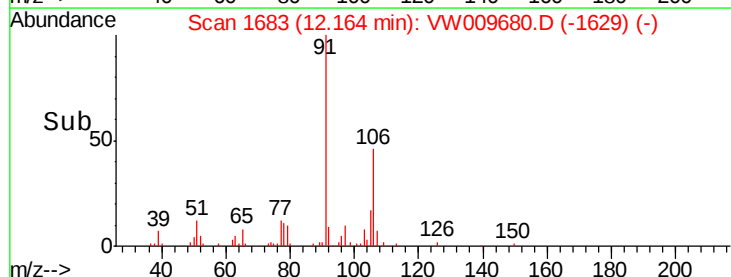
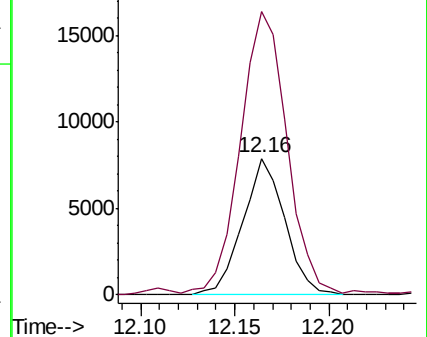
106 100

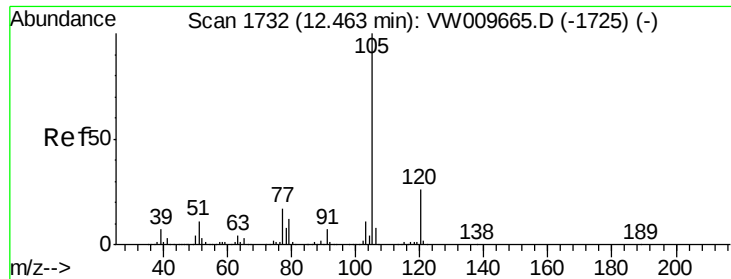
91 207.4 153.9 285.7



Abundance Ion 106.00 (105.70 to 106.70): V

Ion 91.00 (90.70 to 91.70): VW





#57

Isopropylbenzene

Concen: 0.303 ug/L

RT: 12.47 min Scan# 1733

Delta R.T. 0.01 min

Lab File: VW009680.D

Acq: 04 Apr 2019 02:43

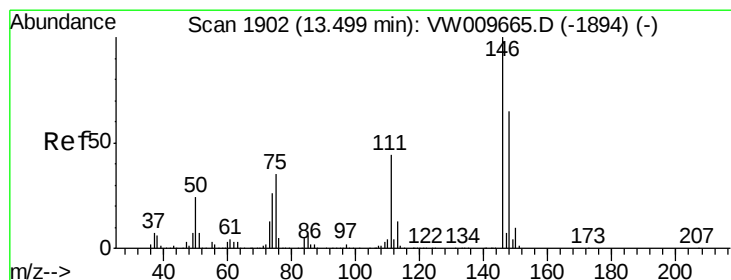
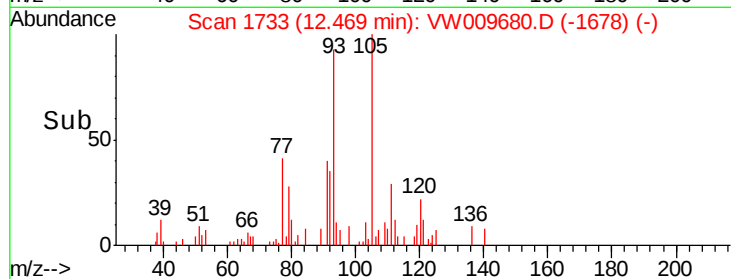
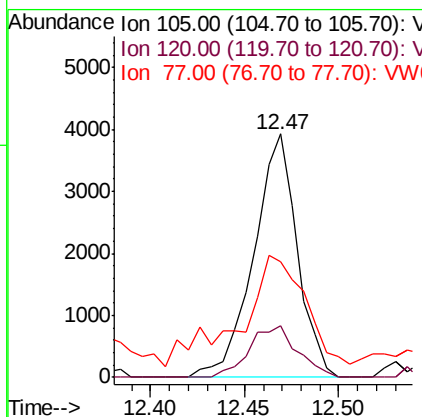
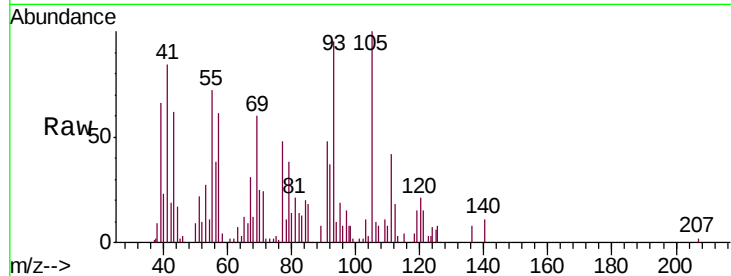
Instrument :

MSVOA_W

ClientSampled :

BF649

Tgt Ion:	105	Resp:	6276
Ion Ratio	Lower	Upper	
105	100		
120	23.3	21.0	31.4
77	46.5	13.4	20.2#



#63

1,3-Dichlorobenzene

Concen: 3.533 ug/L

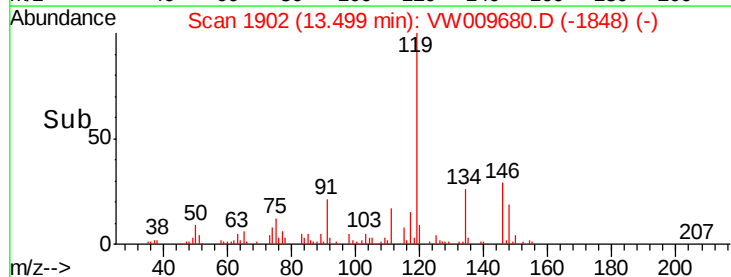
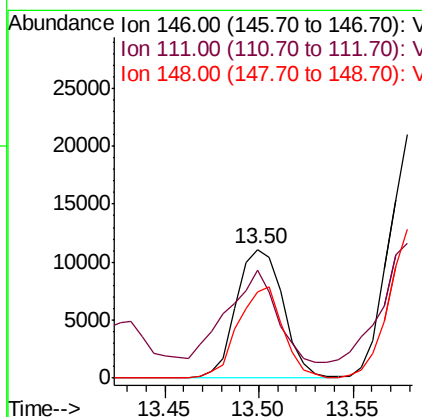
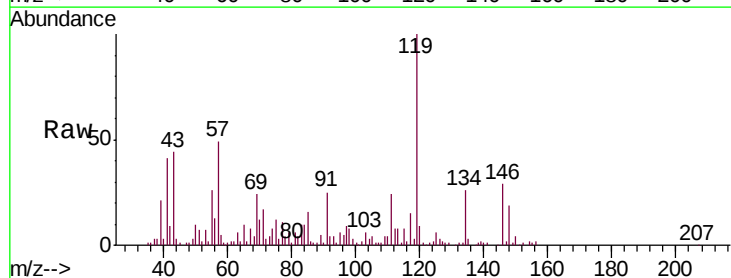
RT: 13.50 min Scan# 1902

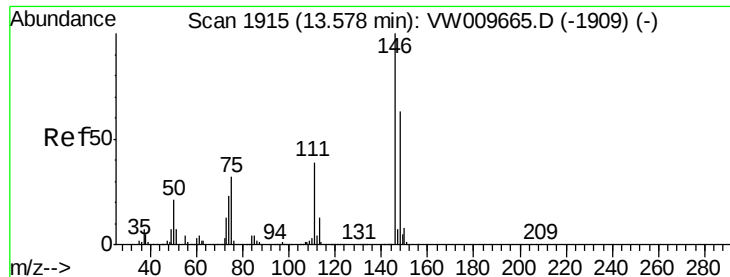
Delta R.T. 0.00 min

Lab File: VW009680.D

Acq: 04 Apr 2019 02:43

Tgt Ion:	146	Resp:	19168
Ion Ratio	Lower	Upper	
146	100		
111	83.4	28.1	52.3#
148	66.9	44.3	82.3

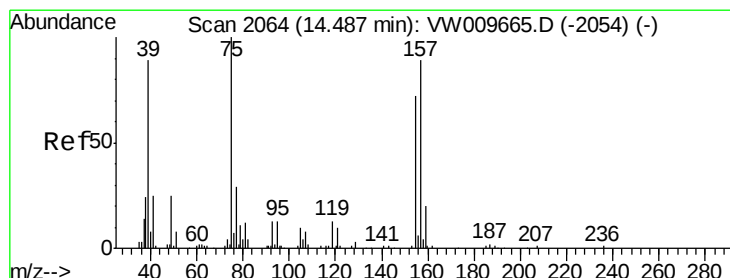
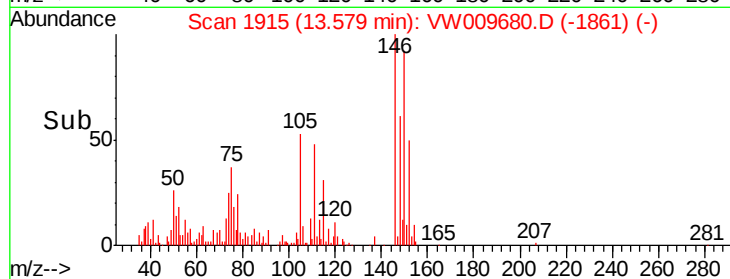
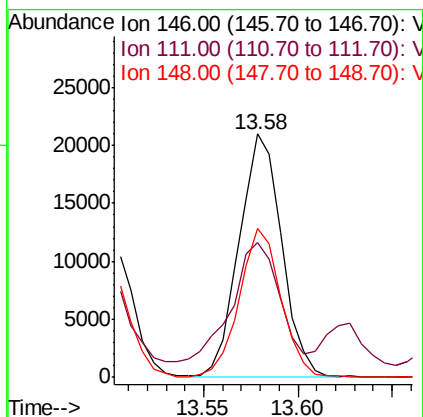
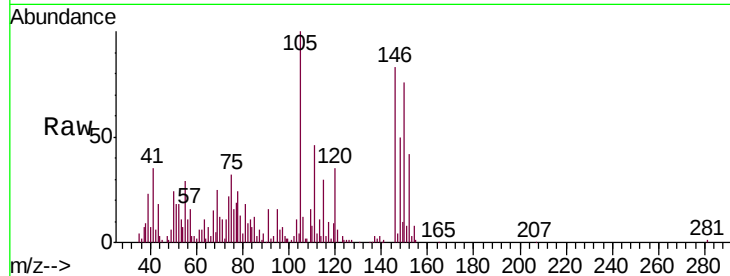




#64
 1,4-Dichlorobenzene
 Concen: 5.684 ug/L
 RT: 13.58 min Scan# 1915
 Delta R.T. 0.00 min
 Lab File: VW009680.D
 Acq: 04 Apr 2019 02:43

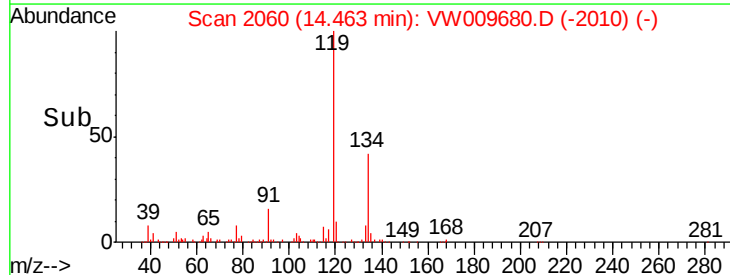
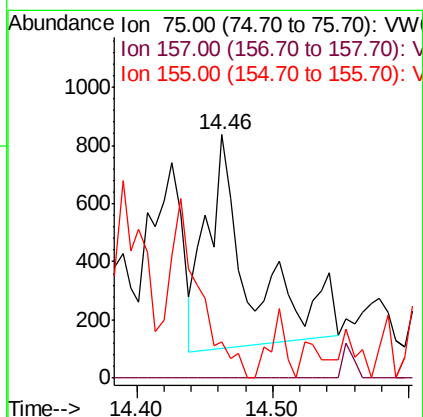
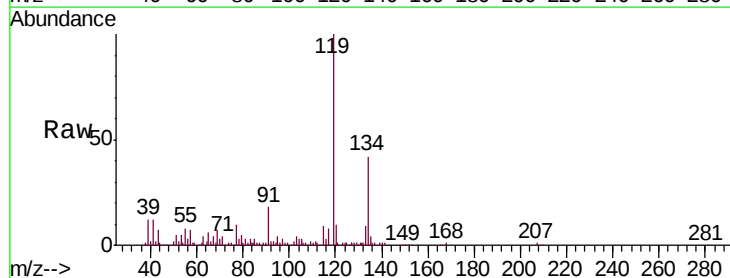
Instrument :
 MSVOA_W
 ClientSampleId :
 BF649

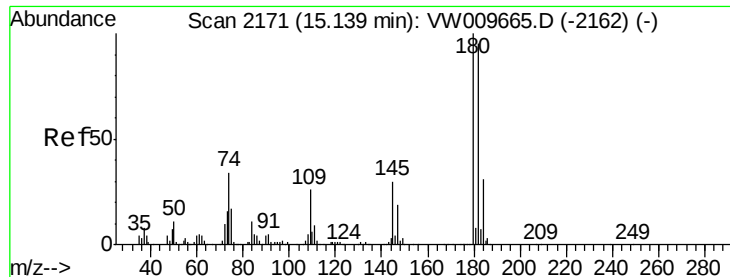
Tgt Ion:146 Resp: 32887
 Ion Ratio Lower Upper
 146 100
 111 55.5 27.4 50.8#
 148 60.9 43.8 81.3



#66
 1,2-Dibromo-3-chloropropane
 Concen: 3.210 ug/L
 RT: 14.46 min Scan# 2060
 Delta R.T. -0.02 min
 Lab File: VW009680.D
 Acq: 04 Apr 2019 02:43

Tgt Ion: 75 Resp: 1622
 Ion Ratio Lower Upper
 75 100
 157 0.0 77.2 115.8#
 155 14.9 61.9 92.9#

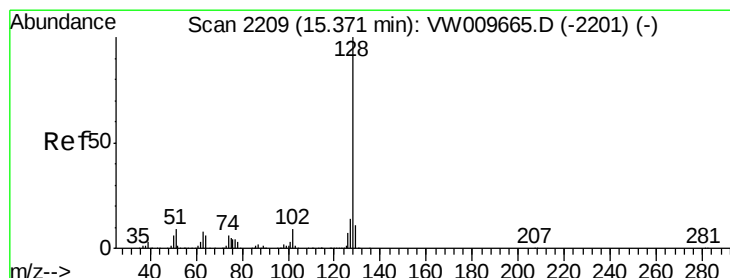
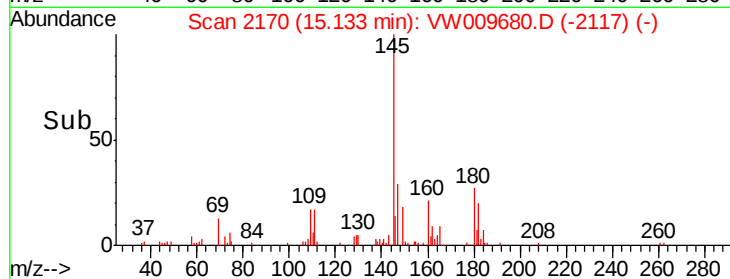
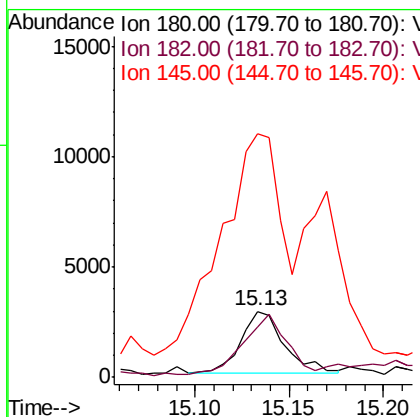
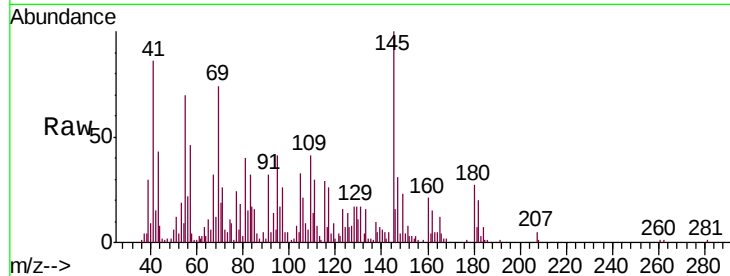




#68
 1,2,4-trichlorobenzene
 Concen: 1.422 ug/L
 RT: 15.13 min Scan# 2170
 Delta R.T. -0.01 min
 Lab File: VW009680.D
 Acq: 04 Apr 2019 02:43

Instrument :
 MSVOA_W
 ClientSampled :
 BF649

Tgt Ion:180 Resp: 4596
 Ion Ratio Lower Upper
 180 100
 182 92.4 75.8 113.8
 145 573.3 24.3 36.5#



#69
 Naphthalene
 Concen: 7.289 ug/L
 RT: 15.37 min Scan# 2209
 Delta R.T. 0.00 min
 Lab File: VW009680.D
 Acq: 04 Apr 2019 02:43

Tgt Ion:128 Resp: 47361
 Ion Ratio Lower Upper
 128 100
 129 9.6 8.5 12.7
 127 13.0 10.8 16.2

