

Data Path : Z:\VOASRV\HPCHEM1\MSVOA_W\DATA\VW040619\
 Data File : VW009755.D
 Acq On : 06 Apr 2019 04:19
 Operator : SY/VA
 Sample : K2188-02
 Misc : 3.51G/10ML/MSVOA_W/SOIL
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_W
 ClientSampleId :
 BF649RE

Quant Time: Apr 06 05:40:18 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_W\METHOD\SOM2WLM040319S.M
 Quant Title : VOC Analysis
 QLast Update : Sat Apr 06 05:36:42 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Difluorobenzene	8.84	114	434675	25.00	ug/L	0.00
28) Chlorobenzene-d5	11.63	117	311700	25.00	ug/L	0.00
60) 1,4-Dichlorobenzene-d4	13.56	152	80323	25.00	ug/L	0.00

System Monitoring Compounds

4) Vinyl Chloride-d3	2.35	65	157922	27.76	ug/L	0.00
Spiked Amount	25.000	Range	30 - 150	Recovery	=	111.04%
7) Chloroethane-d5	2.89	69	148355	28.47	ug/L	0.00
Spiked Amount	25.000	Range	30 - 150	Recovery	=	113.88%
10) 1,1-Dichloroethene-d2	4.01	63	255080	20.85	ug/L	-0.01
Spiked Amount	25.000	Range	45 - 110	Recovery	=	83.40%
20) 2-Butanone-d5	7.07	46	85289	46.18	ug/L	0.00
Spiked Amount	50.000	Range	20 - 135	Recovery	=	92.36%
24) Chloroform-d	7.64	84	325532	27.45	ug/L	0.00
Spiked Amount	25.000	Range	40 - 150	Recovery	=	109.80%
26) 1,2-Dichloroethane-d4	8.31	65	192578	26.45	ug/L	0.00
Spiked Amount	25.000	Range	70 - 130	Recovery	=	105.80%
29) Benzene-d6	8.27	84	627890	38.37	ug/L	0.00
Spiked Amount	25.000	Range	20 - 135	Recovery	=	153.48%#
33) 1,2-Dichloropropane-d6	9.27	67	190863	37.77	ug/L	0.00
Spiked Amount	25.000	Range	70 - 120	Recovery	=	151.08%#
37) Toluene-d8	10.32	98	480935	31.79	ug/L	0.00
Spiked Amount	25.000	Range	30 - 130	Recovery	=	127.16%
38) trans-1,3-Dichloropropene-	10.58	79	40955	16.99	ug/L	0.00
Spiked Amount	25.000	Range	30 - 135	Recovery	=	67.96%
39) 2-Hexanone-d5	10.93	63	55912	58.69	ug/L	0.00
Spiked Amount	50.000	Range	20 - 135	Recovery	=	117.38%
48) 1,1,2,2-Tetrachloroethane-	12.69	84	105121	22.37	ug/L	0.00
Spiked Amount	25.000	Range	45 - 120	Recovery	=	89.48%
61) 1,2-Dichlorobenzene-d4	13.85	152	75578	26.81	ug/L	0.00
Spiked Amount	25.000	Range	75 - 120	Recovery	=	107.24%

Target Compounds

					Qvalue
13) Acetone	4.12	43	38601	19.508	ug/L 81
14) Carbon disulfide	4.37	76	37651	2.098	ug/L 95
16) Methylene chloride	4.90	84	11024	1.438	ug/L 90
21) 2-Butanone	7.17	43	13043	5.183	ug/L 99
25) Chloroform	7.68	83	7303	0.605	ug/L # 75
30) Cyclohexane	7.91	56	3411	0.464	ug/L # 46
34) Benzene	8.32	78	15212	0.811	ug/L 100
36) Methylcyclohexane	9.32	83	2841	0.352	ug/L 90
42) cis-1,3-Dichloropropene	10.03	75	3389	0.456	ug/L # 49
44) Toluene	10.39	91	9369	0.472	ug/L 87
45) trans-1,3-Dichloropropene	10.58	75	2297	0.358	ug/L # 70
52) Chlorobenzene	11.66	112	6150	0.481	ug/L # 88
53) Ethylbenzene	11.73	91	21603	0.955	ug/L 94
54) m,p-Xylene	11.85	106	5014	0.599	ug/L 87
55) o-xylene	12.16	106	17789	2.231	ug/L 98
57) Isopropylbenzene	12.46	105	6305	0.289	ug/L # 90
63) 1,3-Dichlorobenzene	13.50	146	15483	3.116	ug/L # 73

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Quant Title : VOC Analysis
QLast Update : Sat Apr 06 05:36:42 2019
Response via : Initial Calibration

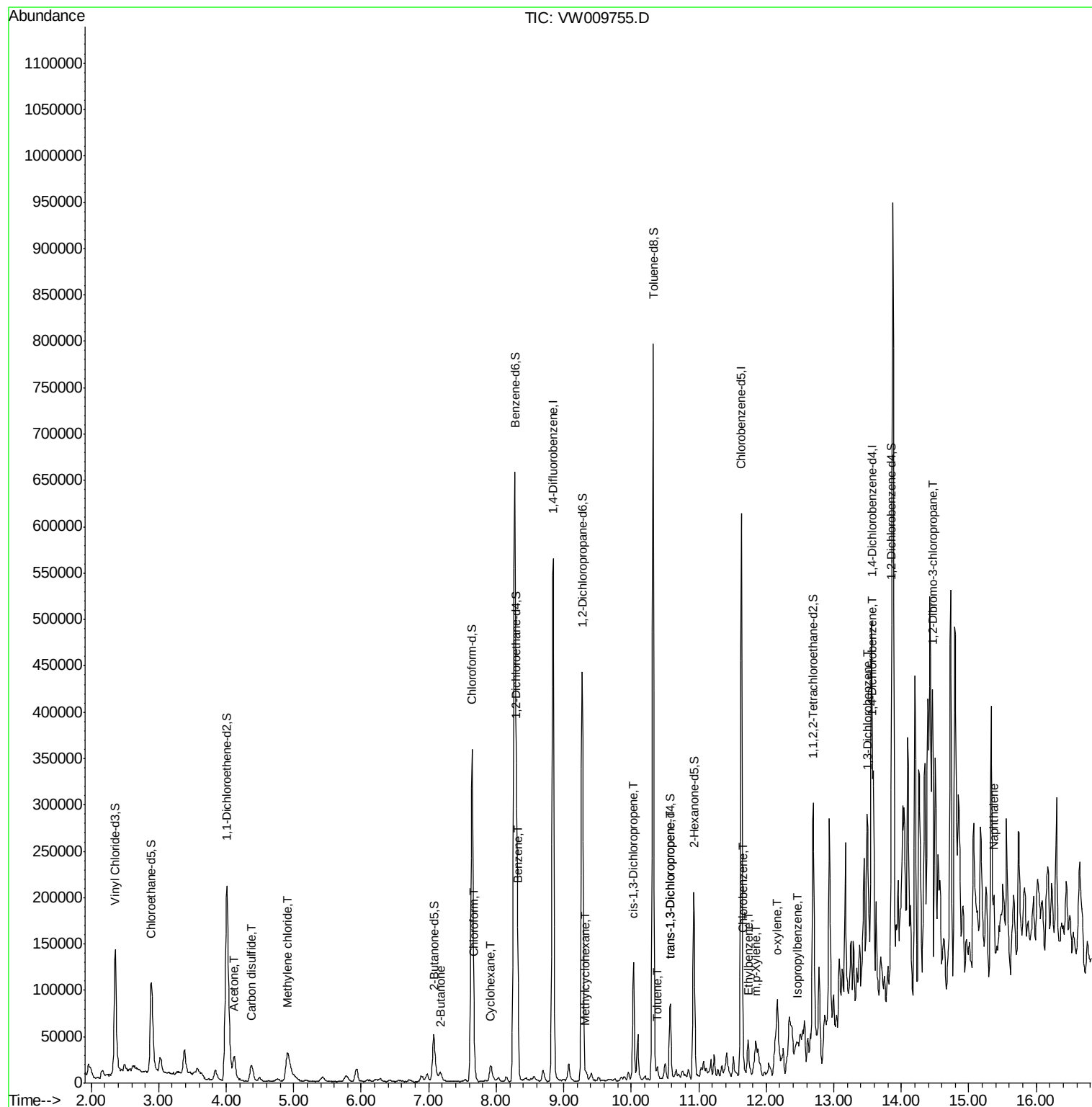
Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
64) 1,4-Dichlorobenzene	13.58	146	24400	4.605	ug/L #	81
66) 1,2-Dibromo-3-chloropropan	14.46	75	1092	2.360	ug/L #	12
69) Naphthalene	15.37	128	66543	11.182	ug/L	97

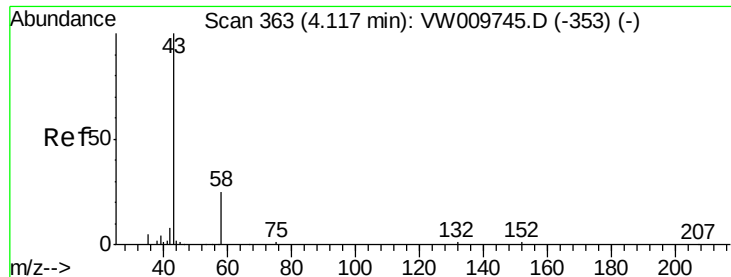
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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QLast Update : Sat Apr 06 05:36:42 2019
Response via : Initial Calibration





#13

Acetone

Concen: 19.508 ug/L

RT: 4.12 min Scan# 363

Delta R.T. -0.01 min

Lab File: VW009755.D

Acq: 06 Apr 2019 04:19

Instrument :

MSVOA_W

ClientSampleId :

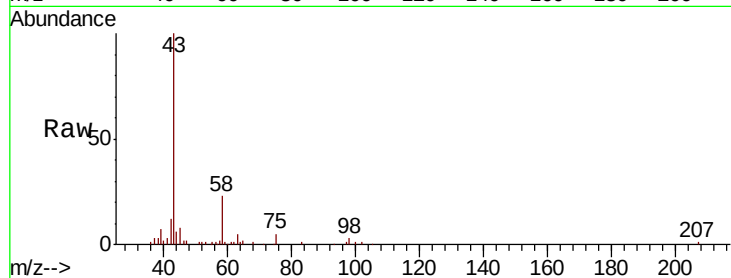
BF649RE

Tgt Ion: 43 Resp: 38601

Ion Ratio Lower Upper

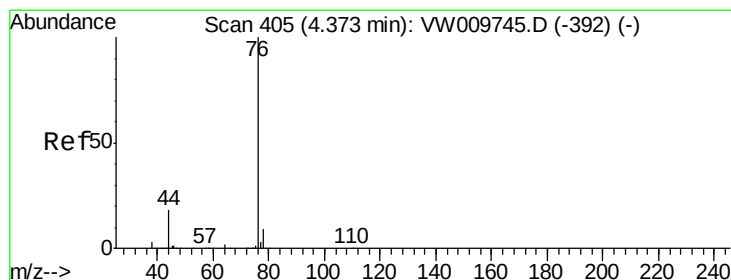
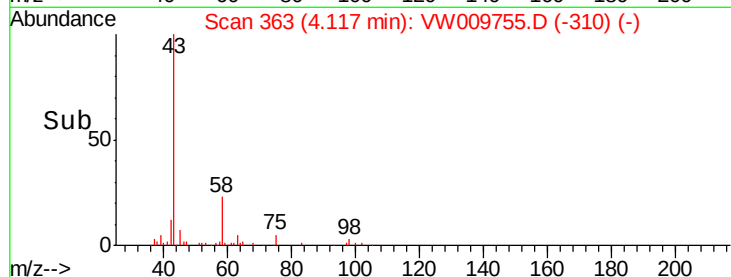
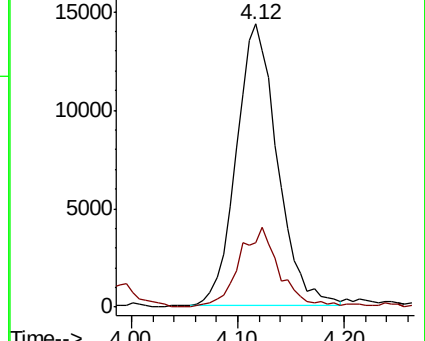
43 100

58 16.8 0.0 53.0



Abundance Ion 43.00 (42.70 to 43.70): VW

Ion 58.00 (57.70 to 58.70): VW



#14

Carbon disulfide

Concen: 2.098 ug/L

RT: 4.37 min Scan# 404

Delta R.T. -0.01 min

Lab File: VW009755.D

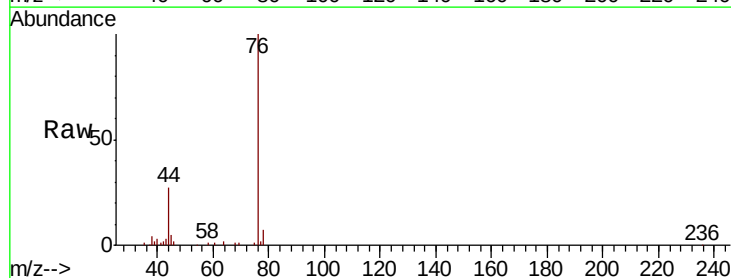
Acq: 06 Apr 2019 04:19

Tgt Ion: 76 Resp: 37651

Ion Ratio Lower Upper

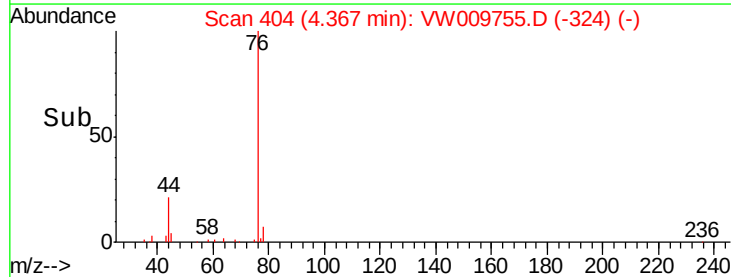
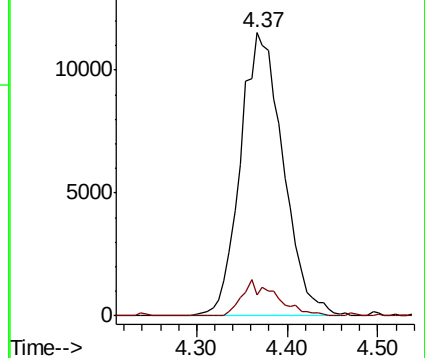
76 100

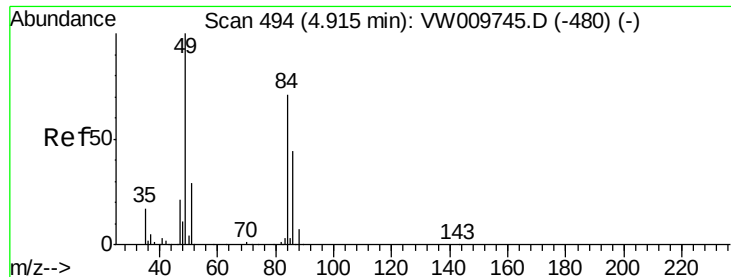
78 7.4 7.3 10.9



Abundance Ion 76.00 (75.70 to 76.70): VW

Ion 78.00 (77.70 to 78.70): VW

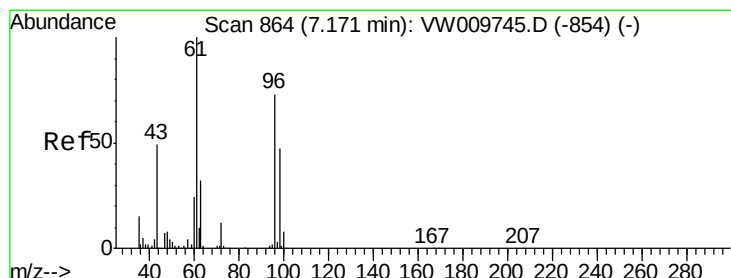
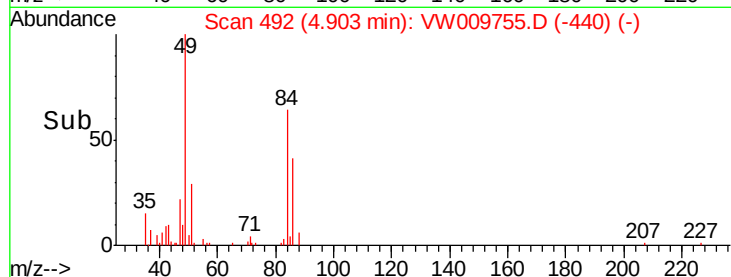
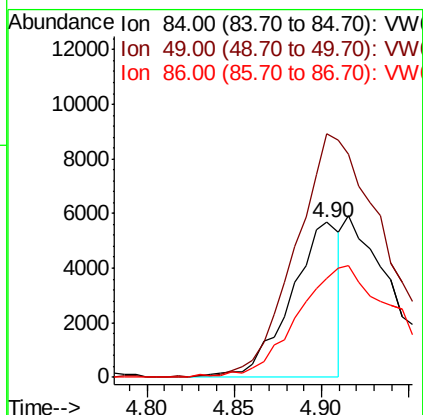
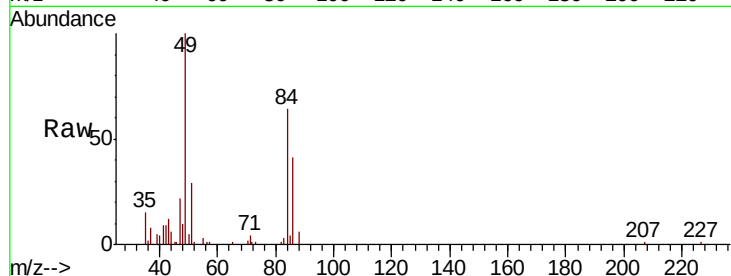




#16
Methylene chloride
Concen: 1.438 ug/L
RT: 4.90 min Scan# 492
Delta R.T. -0.01 min
Lab File: VW009755.D
Acq: 06 Apr 2019 04:19

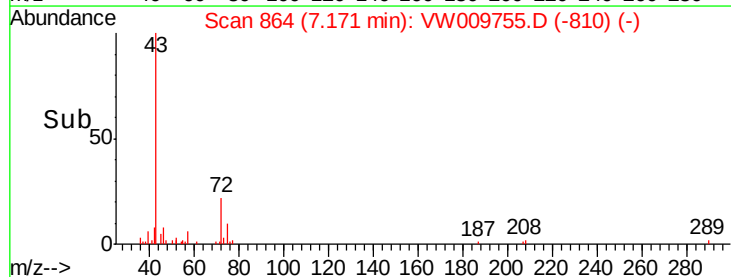
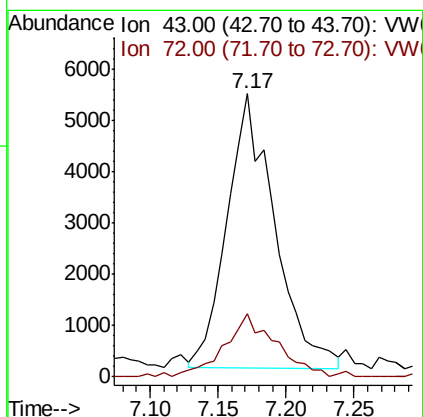
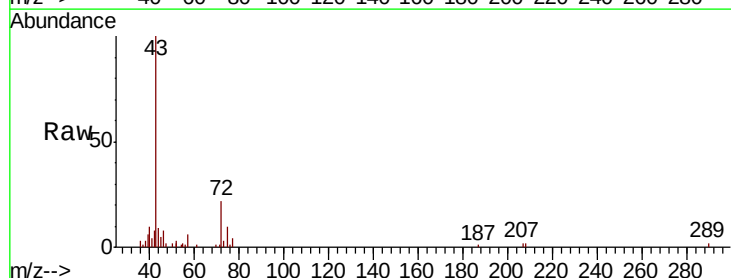
Instrument :
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ClientSampleId :
BF649RE

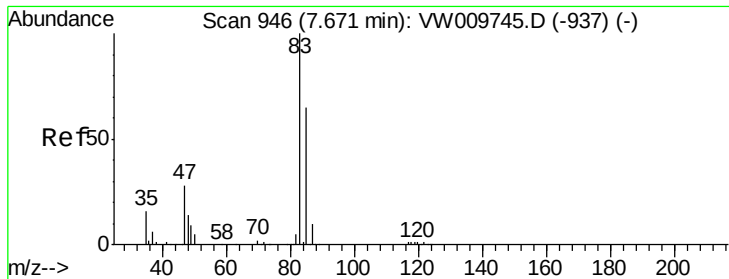
Tgt Ion: 84 Resp: 11024
Ion Ratio Lower Upper
84 100
49 157.3 98.3 182.5
86 64.3 46.4 86.2



#21
2-Butanone
Concen: 5.183 ug/L
RT: 7.17 min Scan# 864
Delta R.T. 0.00 min
Lab File: VW009755.D
Acq: 06 Apr 2019 04:19

Tgt Ion: 43 Resp: 13043
Ion Ratio Lower Upper
43 100
72 24.7 12.0 36.1

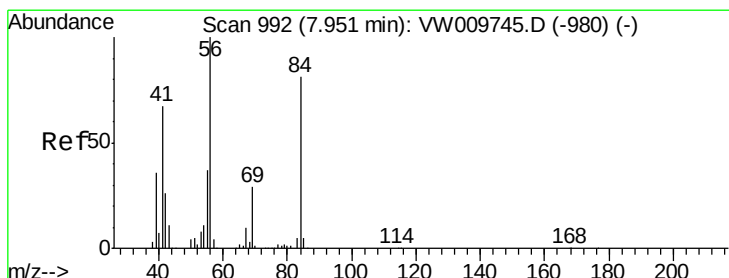
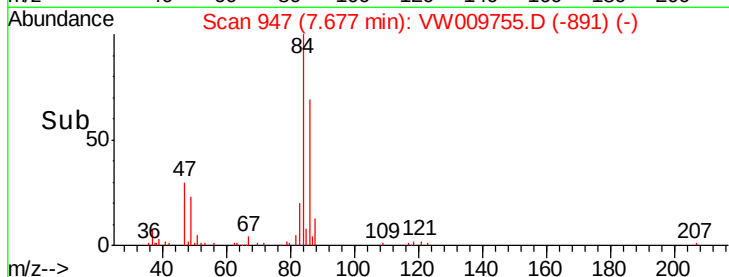
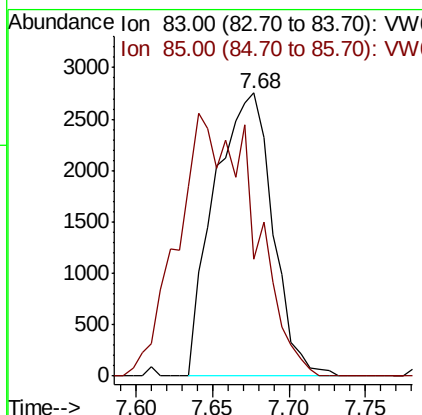
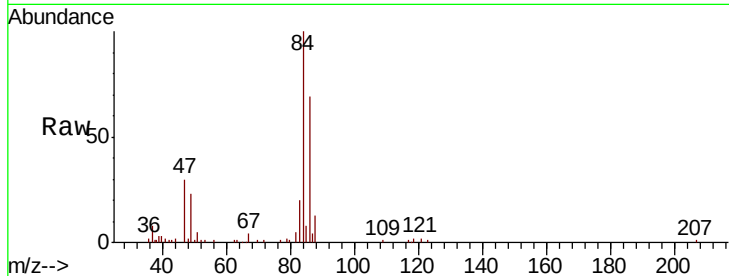




#25
Chloroform
Concen: 0.605 ug/L
RT: 7.68 min Scan# 947
Delta R.T. 0.01 min
Lab File: VW009755.D
Acq: 06 Apr 2019 04:19

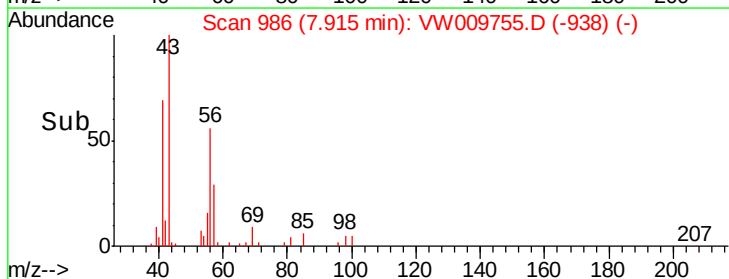
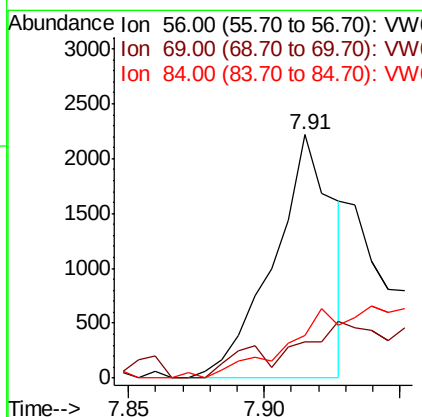
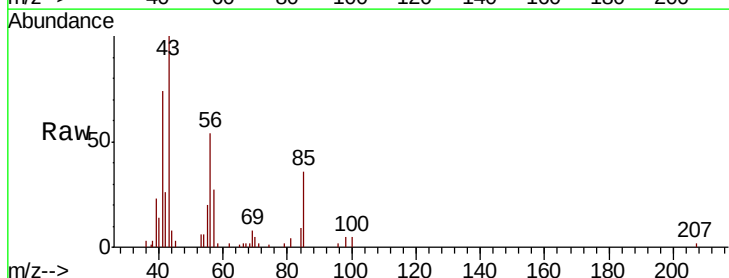
Instrument :
MSVOA_W
ClientSampleId :
BF649RE

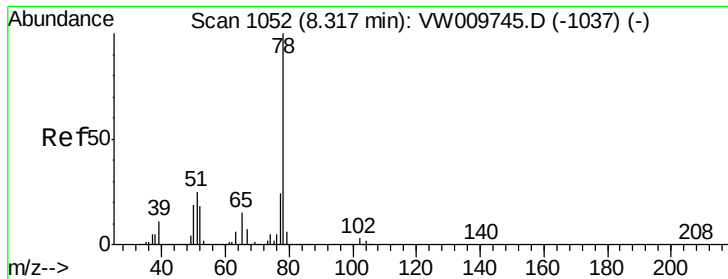
Tgt Ion: 83 Resp: 7303
Ion Ratio Lower Upper
83 100
85 85.1 45.6 84.8#



#30
Cyclohexane
Concen: 0.464 ug/L
RT: 7.91 min Scan# 986
Delta R.T. -0.04 min
Lab File: VW009755.D
Acq: 06 Apr 2019 04:19

Tgt Ion: 56 Resp: 3411
Ion Ratio Lower Upper
56 100
69 28.9 23.4 35.2
84 18.5 67.7 101.5#





#34

Benzene

Concen: 0.811 ug/L

RT: 8.32 min Scan# 1053

Delta R.T. 0.01 min

Lab File: VW009755.D

Acq: 06 Apr 2019 04:19

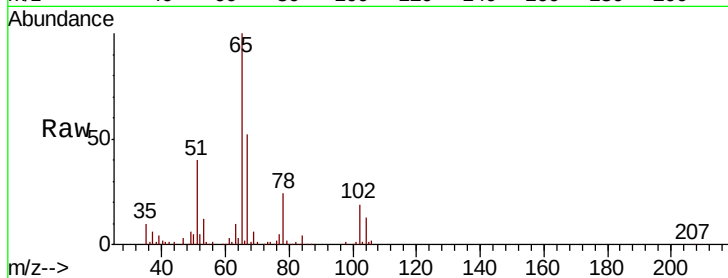
Instrument :

MSVOA_W

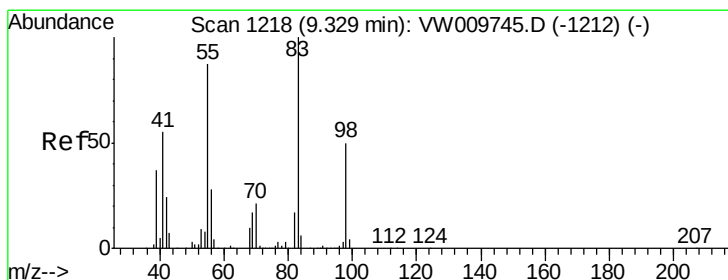
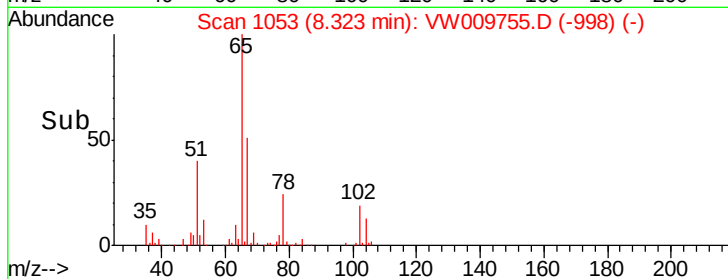
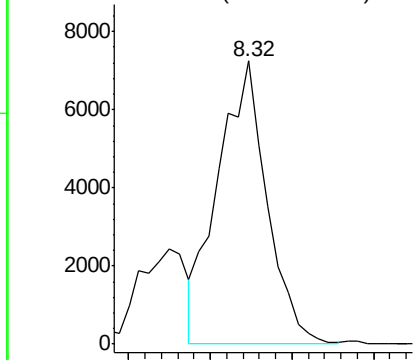
ClientSampled :

BF649RE

Tgt Ion: 78 Resp: 15212



Abundance Ion 78.00 (77.70 to 78.70): VW



#36

Methylcyclohexane

Concen: 0.352 ug/L

RT: 9.32 min Scan# 1217

Delta R.T. -0.01 min

Lab File: VW009755.D

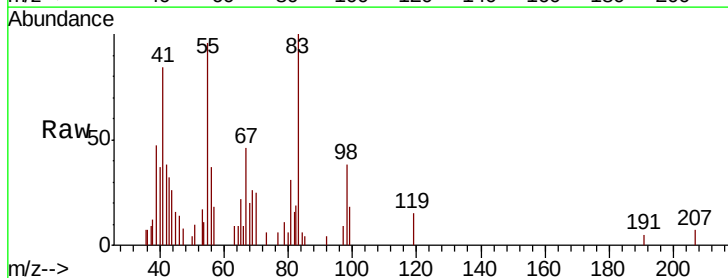
Acq: 06 Apr 2019 04:19

Tgt Ion: 83 Resp: 2841

Ion	Ratio	Lower	Upper
83	100		

55	92.6	66.3	99.5
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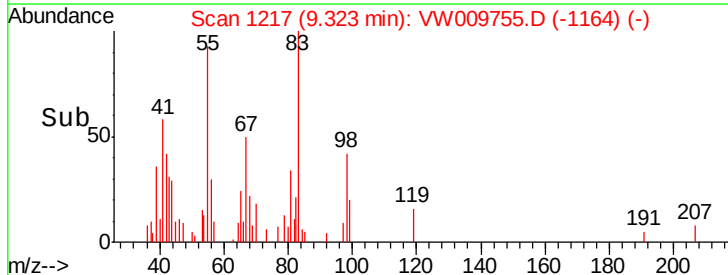
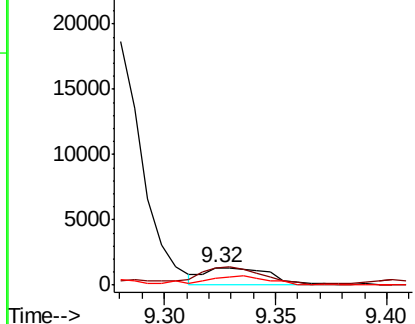
98	43.2	39.4	59.0
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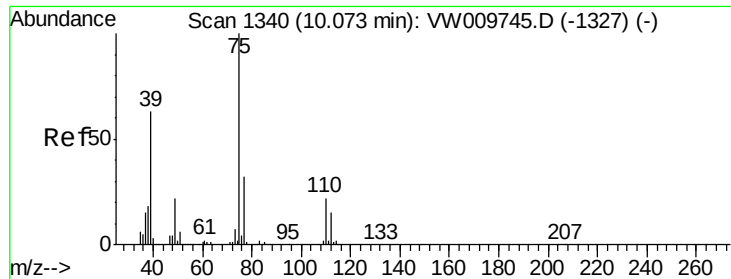


Abundance Ion 83.00 (82.70 to 83.70): VW

Ion 55.00 (54.70 to 55.70): VW

Ion 98.00 (97.70 to 98.70): VW





#42

cis-1,3-Dichloropropene

Concen: 0.456 ug/L

RT: 10.03 min Scan# 1333

Delta R.T. -0.04 min

Lab File: VW009755.D

Acq: 06 Apr 2019 04:19

Instrument :

MSVOA_W

ClientSampleId :

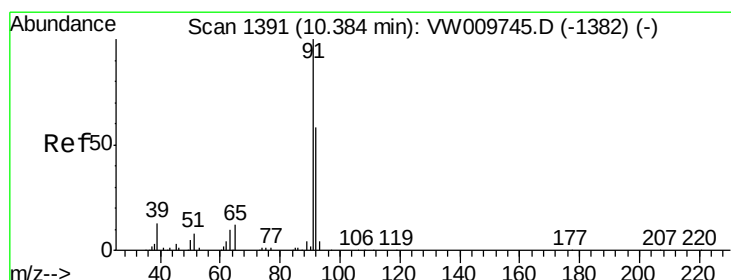
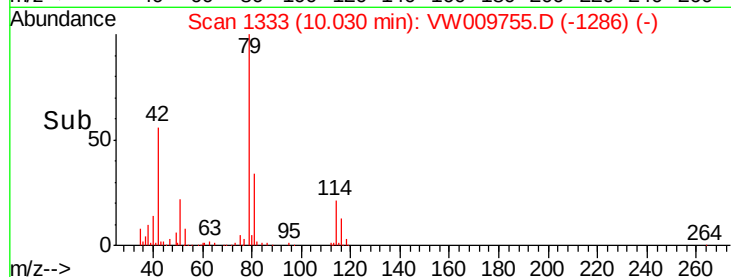
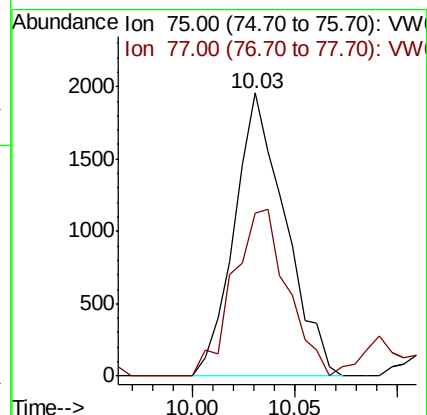
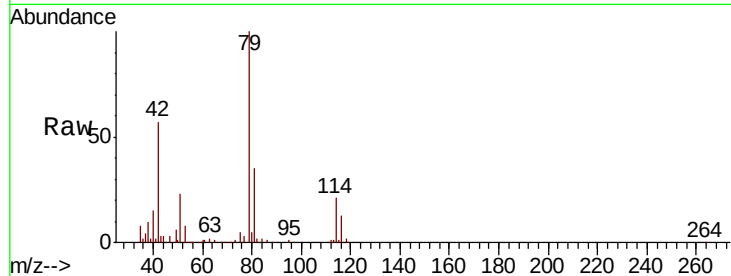
BF649RE

Tgt Ion: 75 Resp: 3389

Ion Ratio Lower Upper

75 100

77 57.7 21.0 39.0#



#44

Toluene

Concen: 0.472 ug/L

RT: 10.39 min Scan# 1392

Delta R.T. 0.01 min

Lab File: VW009755.D

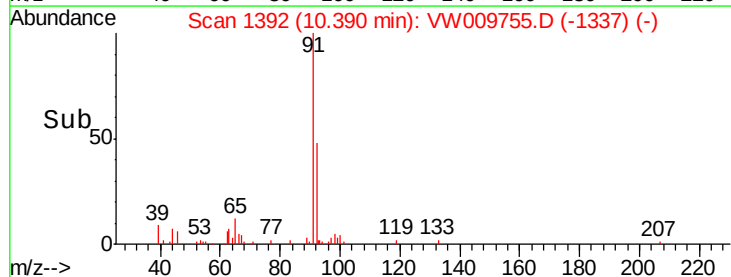
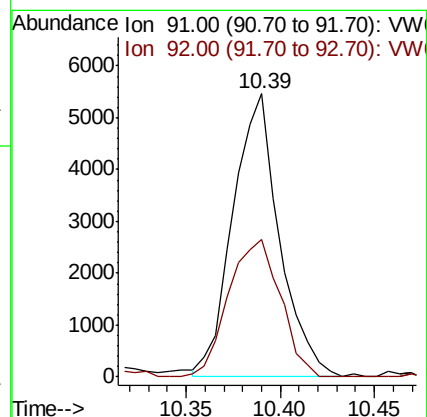
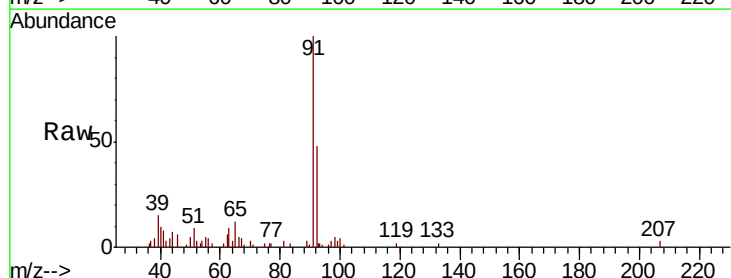
Acq: 06 Apr 2019 04:19

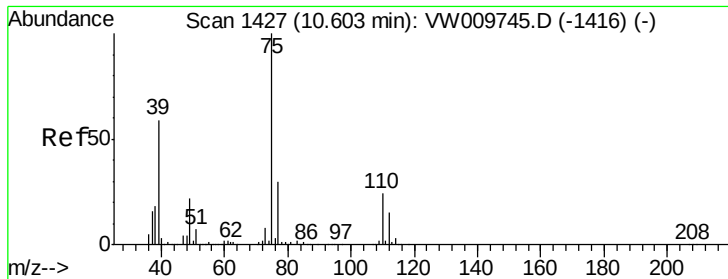
Tgt Ion: 91 Resp: 9369

Ion Ratio Lower Upper

91 100

92 48.5 40.5 75.1





#45

trans-1,3-Dichloropropene

Concen: 0.358 ug/L

RT: 10.58 min Scan# 1423

Delta R.T. -0.02 min

Lab File: VW009755.D

Acq: 06 Apr 2019 04:19

Instrument :

MSVOA_W

ClientSampleId :

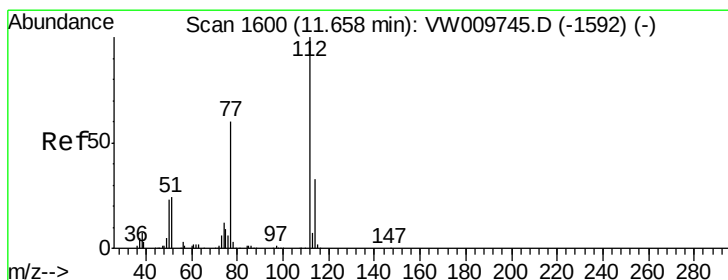
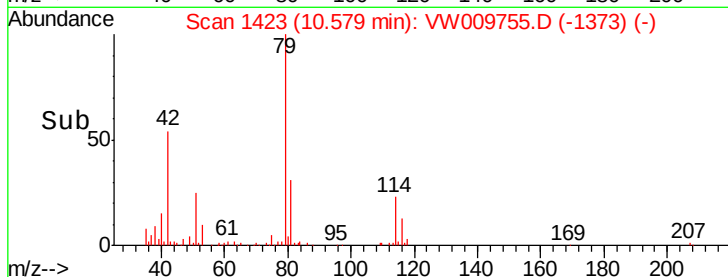
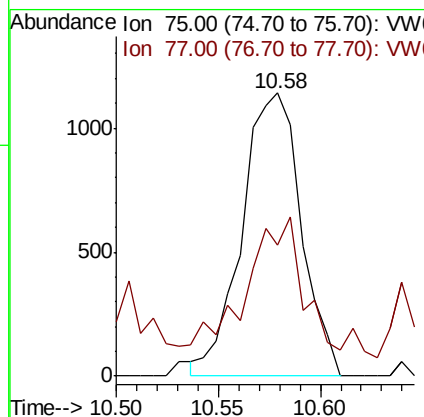
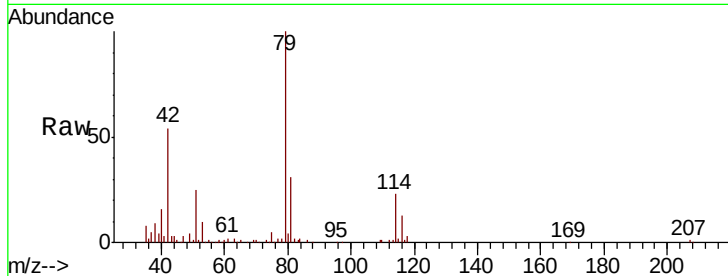
BF649RE

Tgt Ion: 75 Resp: 2297

Ion Ratio Lower Upper

75 100

77 46.3 21.1 39.3#



#52

Chlorobenzene

Concen: 0.481 ug/L

RT: 11.66 min Scan# 1600

Delta R.T. 0.00 min

Lab File: VW009755.D

Acq: 06 Apr 2019 04:19

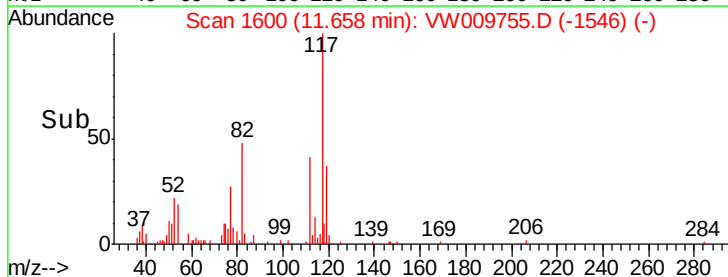
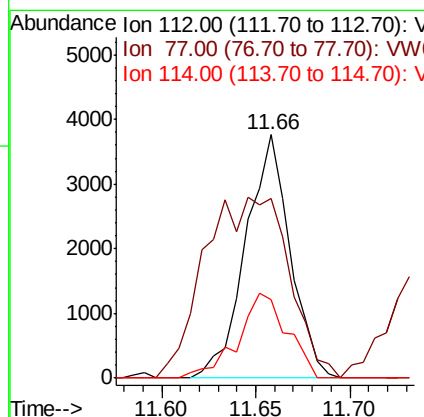
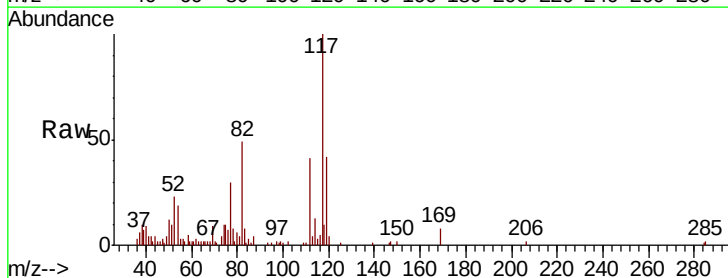
Tgt Ion: 112 Resp: 6150

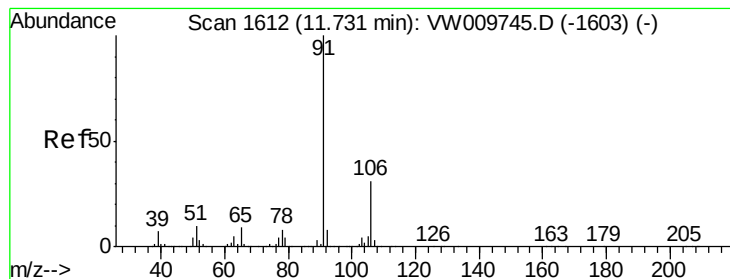
Ion Ratio Lower Upper

112 100

77 73.9 48.2 72.2#

114 32.2 23.0 42.6





#53

Ethylbenzene

Concen: 0.955 ug/L

RT: 11.73 min Scan# 1612

Delta R.T. 0.00 min

Lab File: VW009755.D

Acq: 06 Apr 2019 04:19

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ClientSampleId :

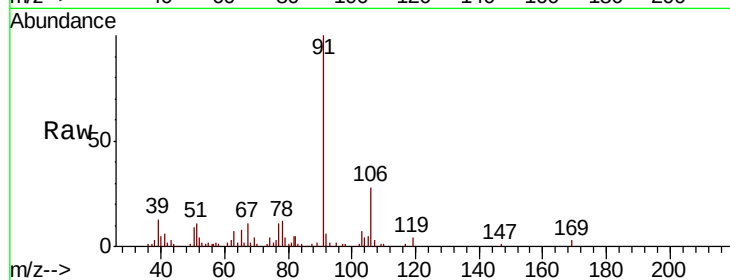
BF649RE

Tgt Ion: 91 Resp: 21603

Ion Ratio Lower Upper

91 100

106 27.5 21.5 39.9



Abundance Ion 91.00 (90.70 to 91.70): VW

Ion 106.00 (105.70 to 106.70): V

11.73

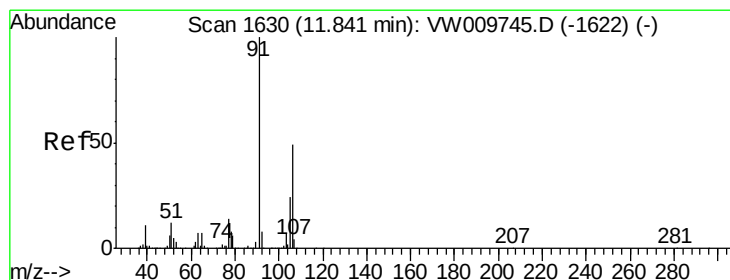
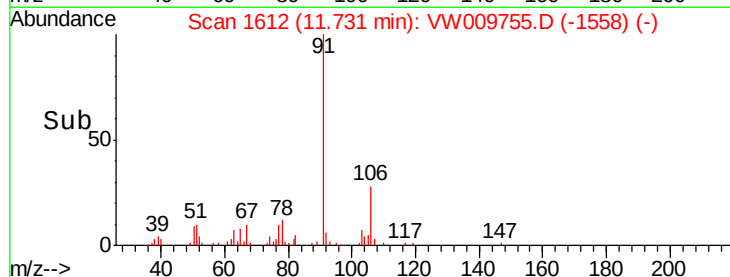
15000

10000

5000

0

Time--> 11.65 11.70 11.75 11.80



#54

m,p-Xylene

Concen: 0.599 ug/L

RT: 11.85 min Scan# 1631

Delta R.T. 0.01 min

Lab File: VW009755.D

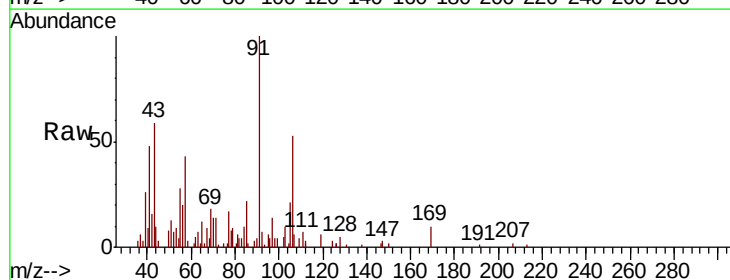
Acq: 06 Apr 2019 04:19

Tgt Ion: 106 Resp: 5014

Ion Ratio Lower Upper

106 100

91 187.1 145.3 269.9



Abundance Ion 106.00 (105.70 to 106.70): V

Ion 91.00 (90.70 to 91.70): VW

11.85

6000

5000

4000

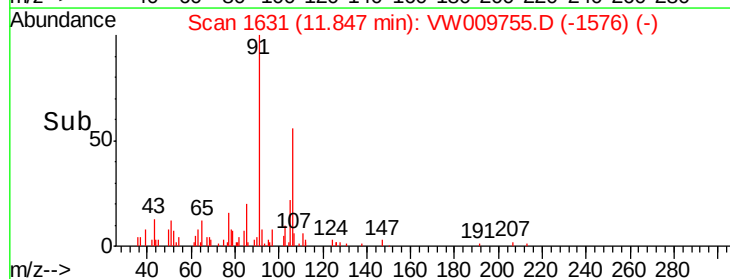
3000

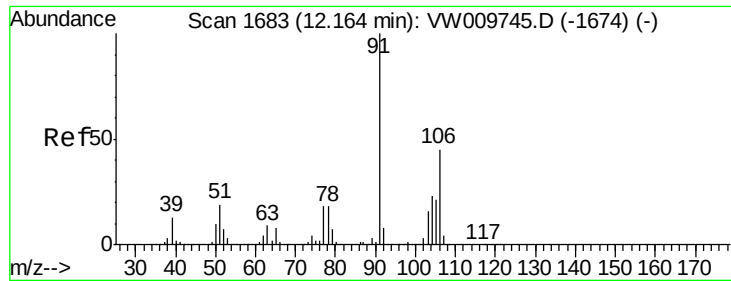
2000

1000

0

Time--> 11.80 11.85 11.90

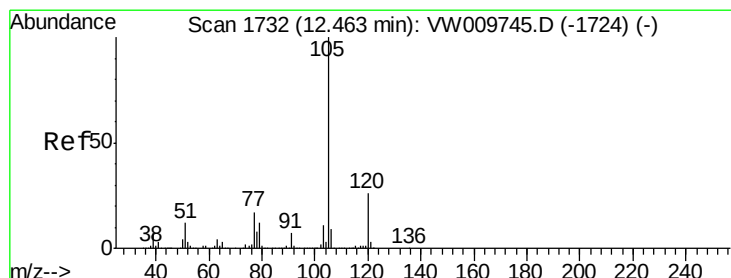
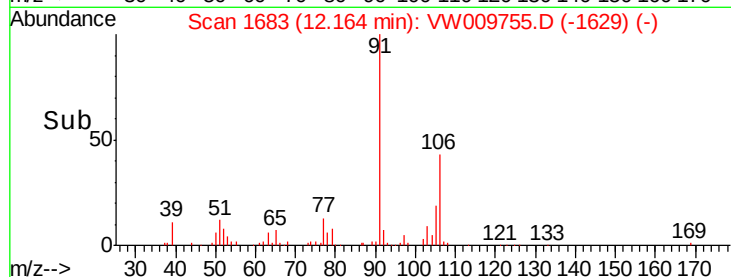
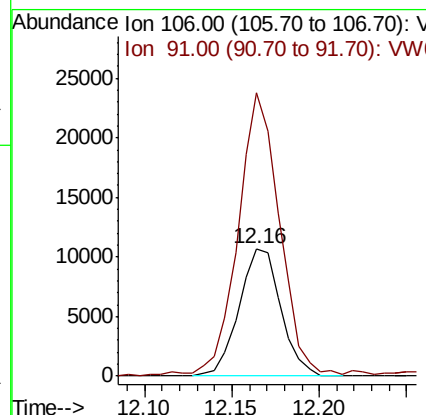
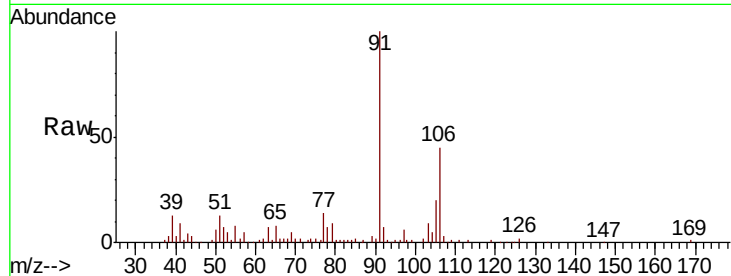




#55
o-xylene
Concen: 2.231 ug/L
RT: 12.16 min Scan# 1683
Delta R.T. 0.00 min
Lab File: VW009755.D
Acq: 06 Apr 2019 04:19

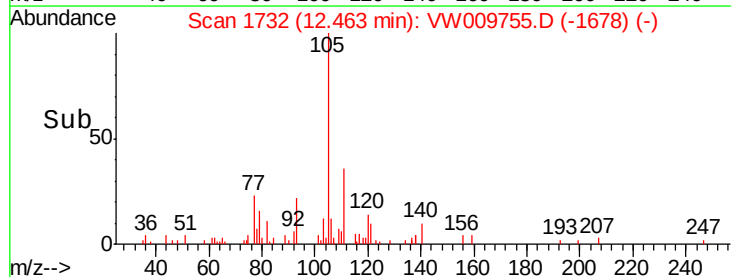
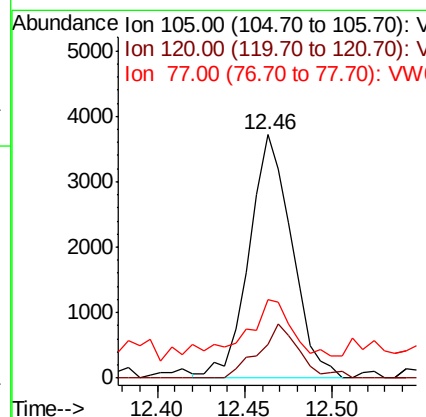
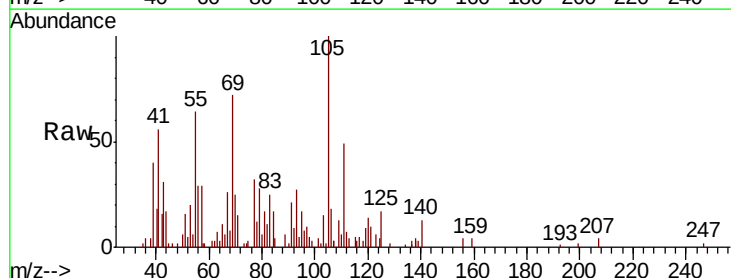
Instrument :
MSVOA_W
ClientSampled :
BF649RE

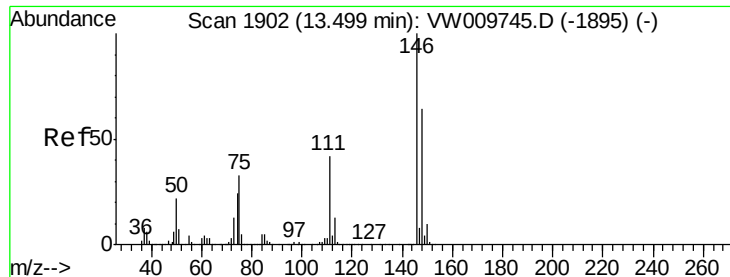
Tgt Ion:106 Resp: 17789
Ion Ratio Lower Upper
106 100
91 222.2 153.9 285.7



#57
Isopropylbenzene
Concen: 0.289 ug/L
RT: 12.46 min Scan# 1732
Delta R.T. 0.00 min
Lab File: VW009755.D
Acq: 06 Apr 2019 04:19

Tgt Ion:105 Resp: 6305
Ion Ratio Lower Upper
105 100
120 20.1 21.0 31.4#
77 20.3 13.4 20.2#

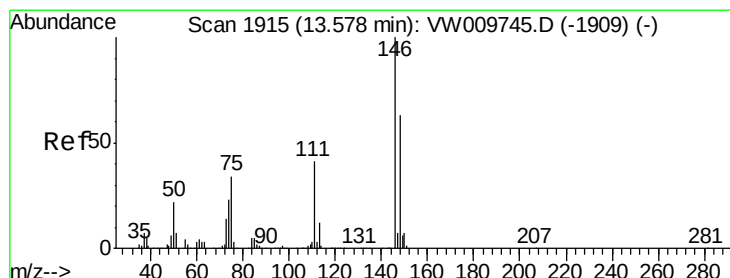
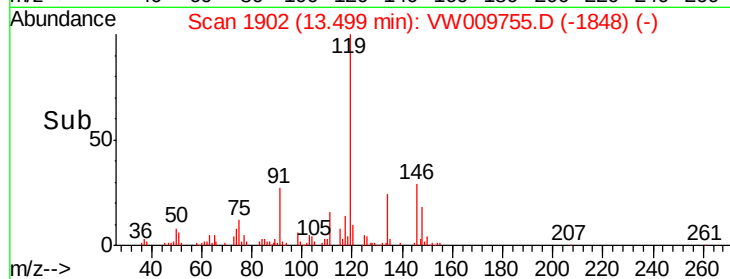
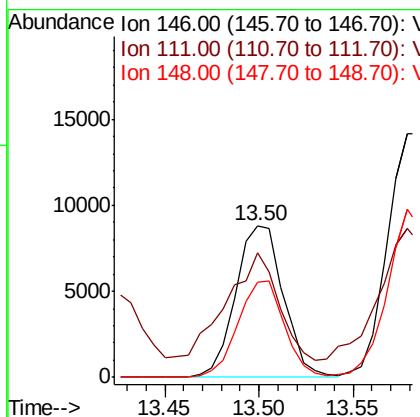
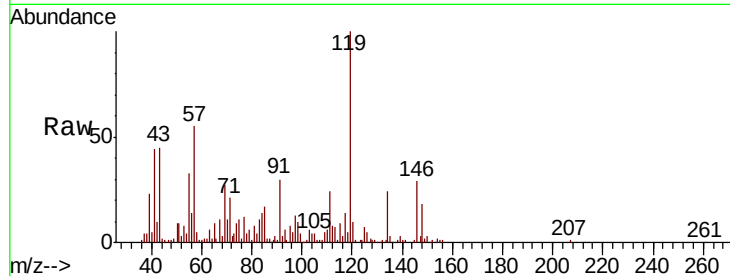




#63
 1,3-Dichlorobenzene
 Concen: 3.116 ug/L
 RT: 13.50 min Scan# 1902
 Delta R.T. 0.00 min
 Lab File: VW009755.D
 Acq: 06 Apr 2019 04:19

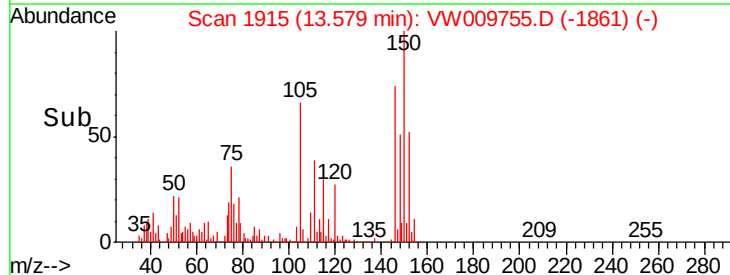
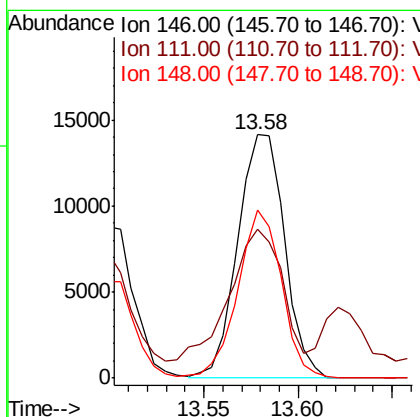
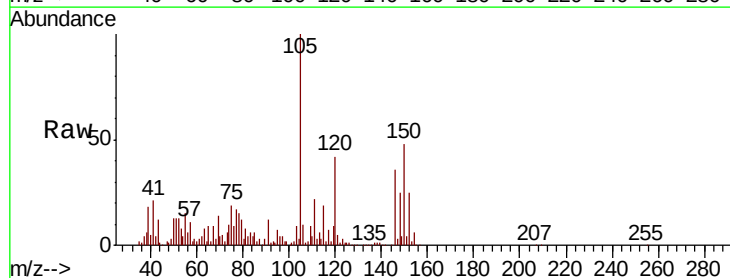
Instrument :
 MSVOA_W
 ClientSampleId :
 BF649RE

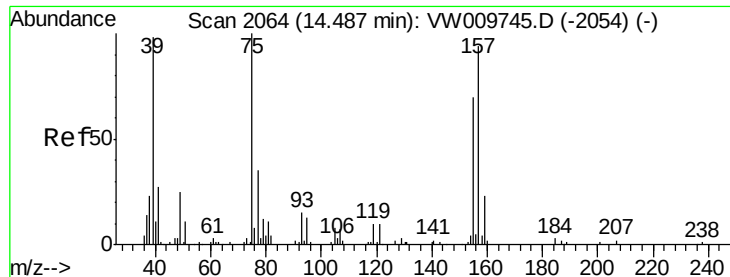
Tgt Ion:146 Resp: 15483
 Ion Ratio Lower Upper
 146 100
 111 82.6 28.1 52.3#
 148 62.9 44.3 82.3



#64
 1,4-Dichlorobenzene
 Concen: 4.605 ug/L
 RT: 13.58 min Scan# 1915
 Delta R.T. 0.00 min
 Lab File: VW009755.D
 Acq: 06 Apr 2019 04:19

Tgt Ion:146 Resp: 24400
 Ion Ratio Lower Upper
 146 100
 111 61.3 27.4 50.8#
 148 69.2 43.8 81.3

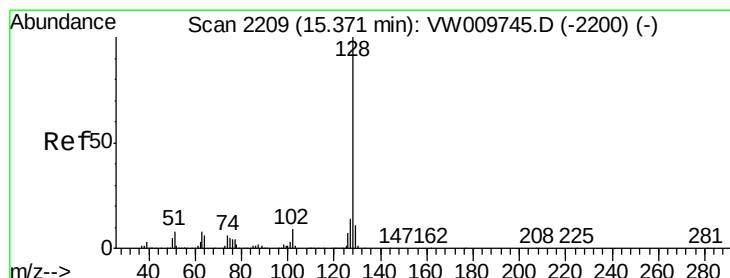
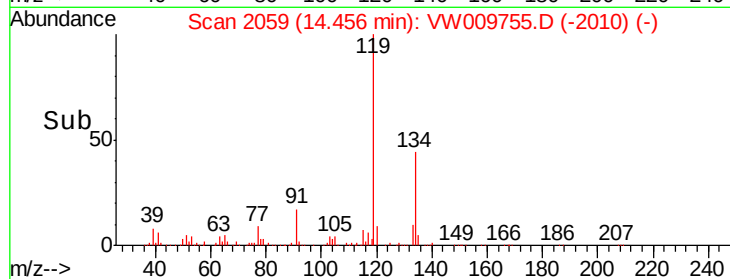
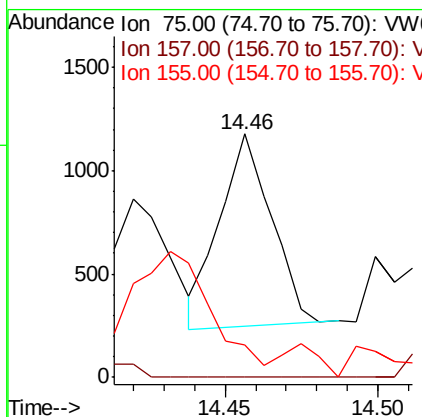
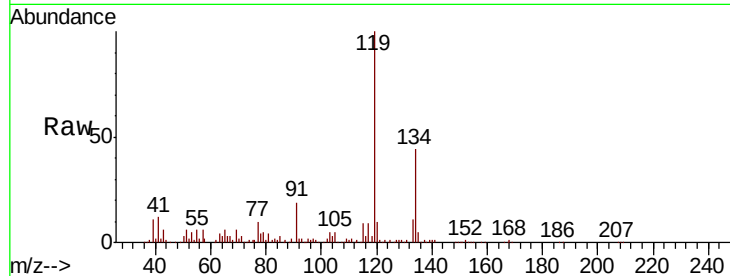




#66
 1,2-Dibromo-3-chloropropane
 Concen: 2.360 ug/L
 RT: 14.46 min Scan# 2059
 Delta R.T. -0.03 min
 Lab File: VW009755.D
 Acq: 06 Apr 2019 04:19

Instrument :
 MSVOA_W
 ClientSampleId :
 BF649RE

Tgt Ion: 75 Resp: 1092
 Ion Ratio Lower Upper
 75 100
 157 0.0 77.2 115.8#
 155 13.4 61.9 92.9#



#69
 Naphthalene
 Concen: 11.182 ug/L
 RT: 15.37 min Scan# 2209
 Delta R.T. 0.00 min
 Lab File: VW009755.D
 Acq: 06 Apr 2019 04:19

Tgt Ion: 128 Resp: 66543
 Ion Ratio Lower Upper
 128 100
 129 10.7 8.5 12.7
 127 15.8 10.8 16.2

