

Data File : VW008774.D
Acq On : 21 Feb 2019 17:17
Operator : SY/VA
Sample : K1345-03RE
Misc : 5.76G/5ML/MSVOA_W/SOIL
ALS Vial : 14 Sample Multiplier: 1

Instrument :
MSVOA_W
ClientSampleId :
HD-01-022019RE

Quant Time: Feb 22 00:48:00 2019
Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_W\METHOD\82W022119S.M
Quant Title : SW846 8260
QLast Update : Fri Feb 22 00:38:32 2019
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	7.95	168	382428	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	8.84	114	578787	50.00	ug/l	0.00
63) Chlorobenzene-d5	11.63	117	508041	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.56	152	233484	50.00	ug/l	0.00

System Monitoring Compounds

33) 1,2-Dichloroethane-d4	8.31	65	205031	57.16	ug/l	0.00
Spiked Amount	50.000		Recovery	=	114.32%	
35) Dibromofluoromethane	7.88	113	174613	50.25	ug/l	0.00
Spiked Amount	50.000		Recovery	=	100.50%	
50) Toluene-d8	10.32	98	684492	51.02	ug/l	0.00
Spiked Amount	50.000		Recovery	=	102.04%	
62) 4-Bromofluorobenzene	12.62	95	230080	43.80	ug/l	0.00
Spiked Amount	50.000		Recovery	=	87.60%	

Target Compounds

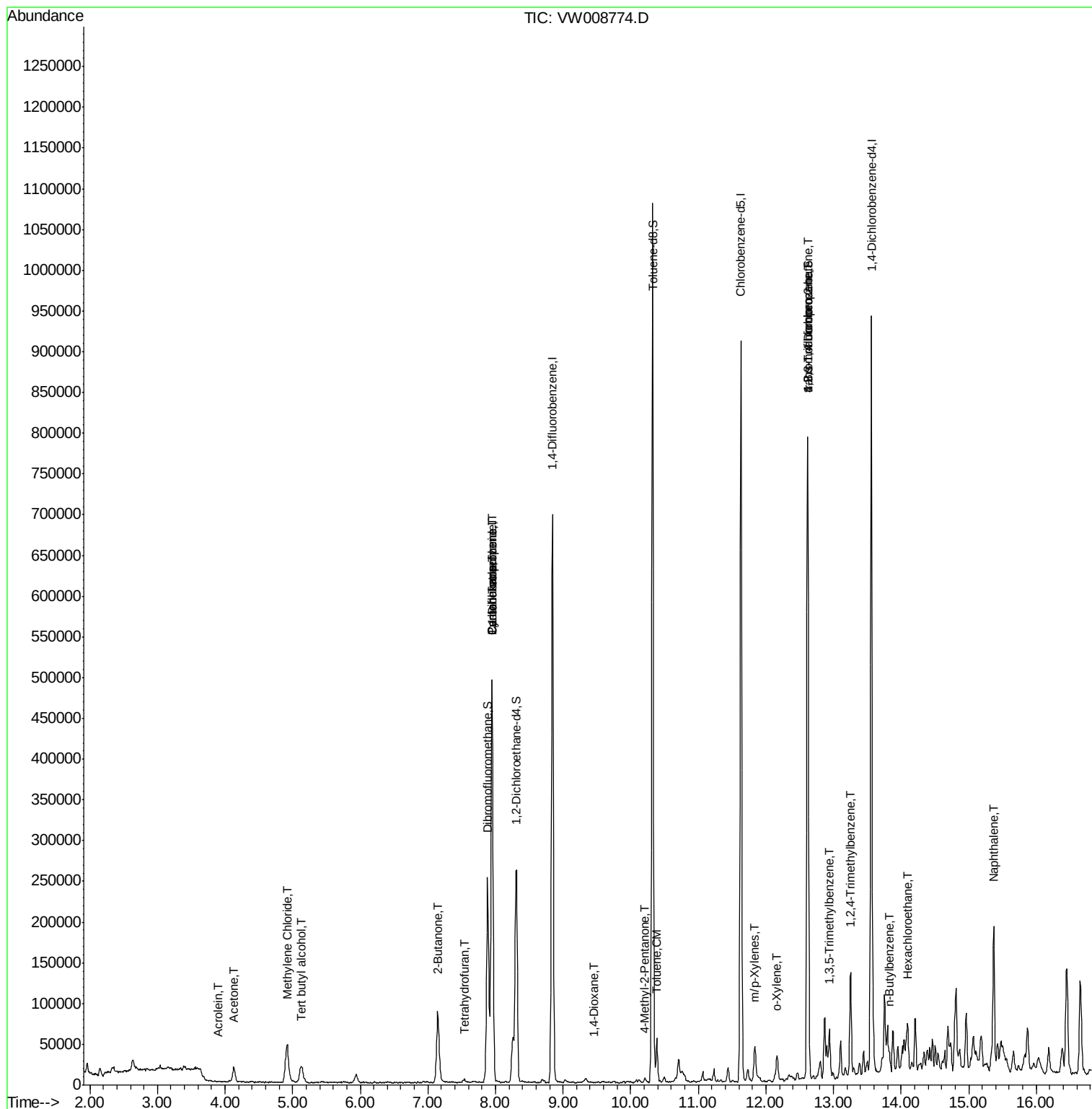
						Qvalue
11) Tert butyl alcohol	5.12	59	19577	61.308	ug/l #	75
13) Acrolein	3.89	56	147	20.182	ug/l #	36
16) Acetone	4.13	43	33208	39.942	ug/l	97
20) Methylene Chloride	4.92	84	35499	3.963	ug/l	97
25) 2-Butanone	7.16	43	7329	6.305	ug/l #	85
29) Tetrahydrofuran	7.54	42	3143	4.243	ug/l #	88
31) Cyclohexane	7.95	56	8978	1.328	ug/l #	5
36) 1,1-Dichloropropene	7.95	75	28402	5.041	ug/l #	50
38) Carbon Tetrachloride	7.95	117	36458	6.136	ug/l #	17
49) 1,4-Dioxane	9.46	88	65	1.920	ug/l #	1
51) 4-Methyl-2-Pentanone	10.21	43	3757	1.415	ug/l	99
52) Toluene	10.39	92	20736	1.986	ug/l	98
68) m/p-Xylenes	11.83	106	11816	1.549	ug/l	95
69) o-Xylene	12.16	106	7401	1.033	ug/l	87
76) 1,2,3-Trichloropropane	12.62	75	121785	63.176	ug/l #	100
80) 1,3,5-Trimethylbenzene	12.94	105	18166	1.306	ug/l	98
81) trans-1,4-Dichloro-2-buten	12.62	75	121785	153.585	ug/l #	6
84) 1,2,4-Trimethylbenzene	13.26	105	68987	4.791	ug/l	99
89) n-Butylbenzene	13.83	91	17044	1.148	ug/l #	73
90) Hexachloroethane	14.10	117	3081	1.187	ug/l #	11
95) Naphthalene	15.37	128	144314	16.824	ug/l	97

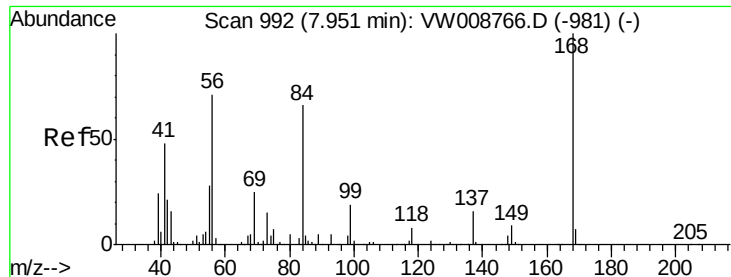
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data File : VW008774.D
Acq On : 21 Feb 2019 17:17
Operator : SY/VA
Sample : K1345-03RE
Misc : 5.76G/5ML/MSVOA_W/SOIL
ALS Vial : 14 Sample Multiplier: 1

Instrument :
MSVOA_W
ClientSampleId :
HD-01-022019RE

Quant Time: Feb 22 00:48:00 2019
Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_W\METHOD\82W022119S.M
Quant Title : SW846 8260
QLast Update : Fri Feb 22 00:38:32 2019
Response via : Initial Calibration





#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 7.95 min Scan# 992

Delta R.T. 0.00 min

Lab File: VW008774.D

Acq: 21 Feb 2019 17:17

Instrument :

MSVOA_W

ClientSampleId :

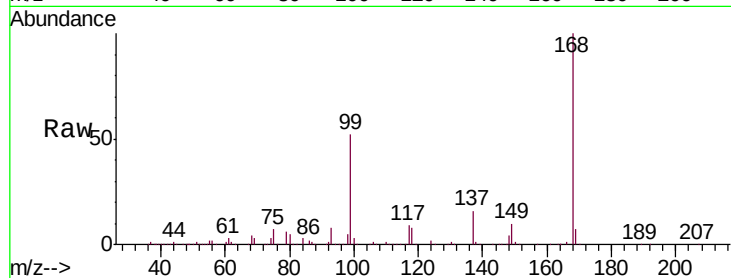
HD-01-022019RE

Tgt Ion:168 Resp: 382428

Ion Ratio Lower Upper

168 100

99 52.4 42.2 63.2



Abundance Ion 167.90 (167.60 to 168.60): VW

Ion 98.90 (98.60 to 99.60): VW

7.95

200000

150000

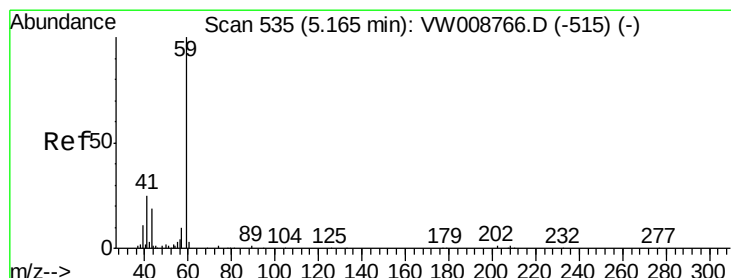
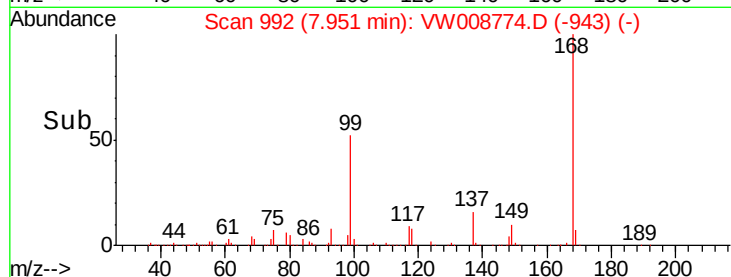
100000

50000

0

Time-->

7.85 7.90 7.95 8.00 8.05



#11

Tert butyl alcohol

Concen: 61.308 ug/l

RT: 5.12 min Scan# 528

Delta R.T. -0.04 min

Lab File: VW008774.D

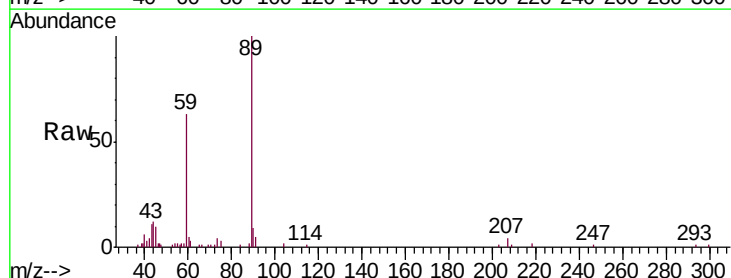
Acq: 21 Feb 2019 17:17

Tgt Ion: 59 Resp: 19577

Ion Ratio Lower Upper

59 100

57 2.1 9.3 13.9#



Abundance Ion 59.00 (58.70 to 59.70): VW

Ion 57.00 (56.70 to 57.70): VW

5.12

6000

5000

4000

3000

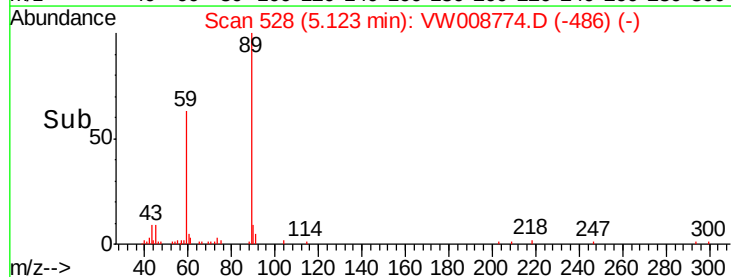
2000

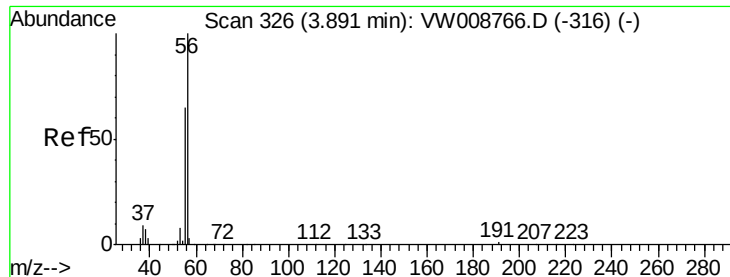
1000

0

Time-->

5.00 5.10 5.20





#13

Acrolein

Concen: 20.182 ug/l

RT: 3.89 min Scan# 326

Delta R.T. 0.00 min

Lab File: VW008774.D

Acq: 21 Feb 2019 17:17

Instrument :

MSVOA_W

ClientSampleId :

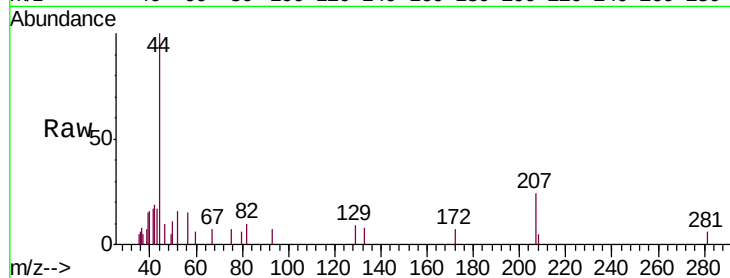
HD-01-022019RE

Tgt Ion: 56 Resp: 147

Ion Ratio Lower Upper

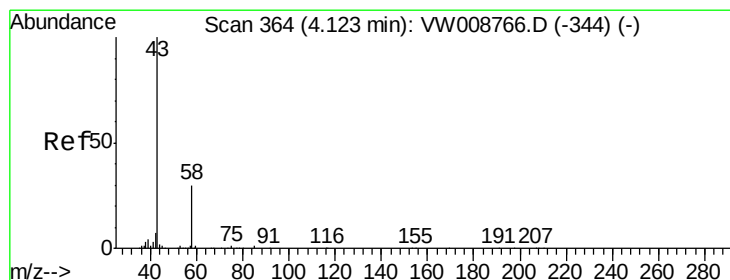
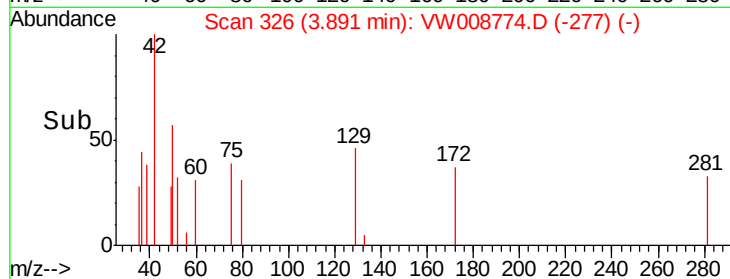
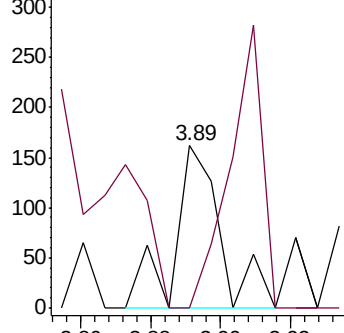
56 100

55 123.8 56.9 85.3#



Abundance Ion 56.00 (55.70 to 56.70): VW

Ion 55.00 (54.70 to 55.70): VW



#16

Acetone

Concen: 39.942 ug/l

RT: 4.13 min Scan# 365

Delta R.T. 0.01 min

Lab File: VW008774.D

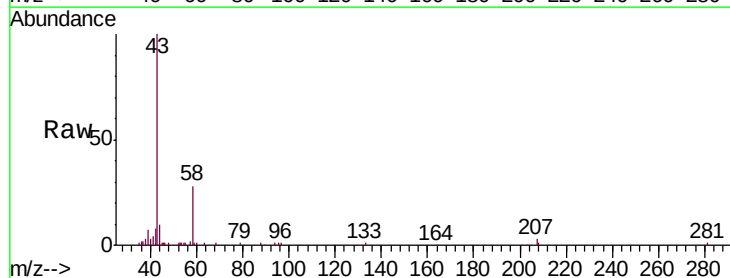
Acq: 21 Feb 2019 17:17

Tgt Ion: 43 Resp: 33208

Ion Ratio Lower Upper

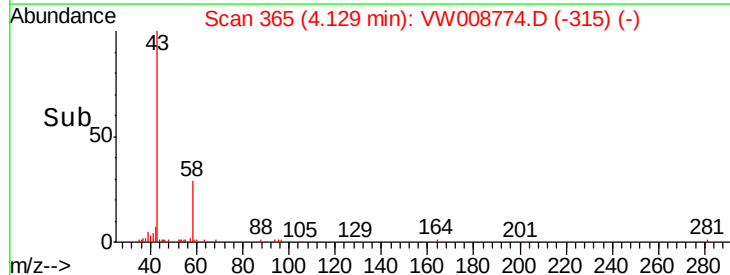
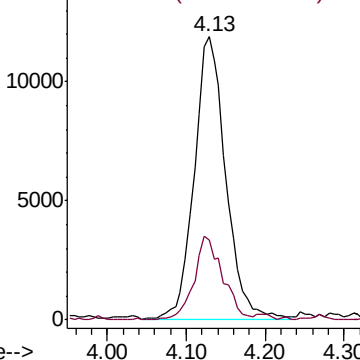
43 100

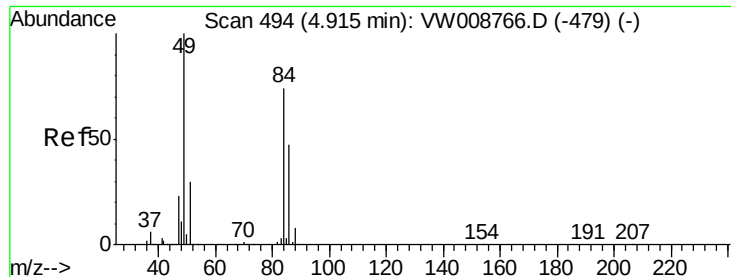
58 28.1 23.8 35.6



Abundance Ion 43.00 (42.70 to 43.70): VW

Ion 58.00 (57.70 to 58.70): VW

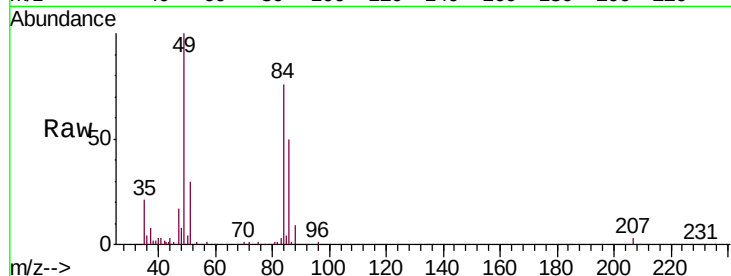




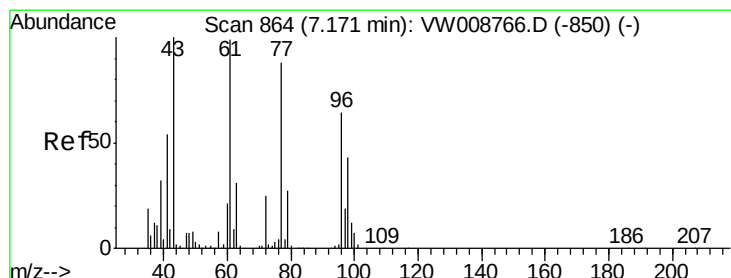
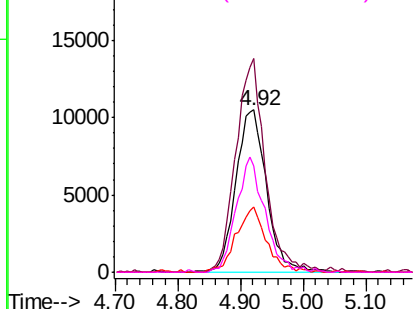
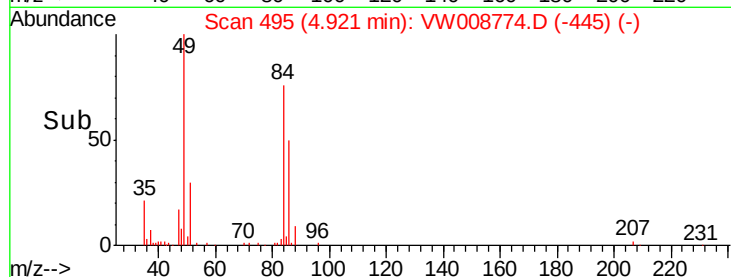
#20
Methylene Chloride
Concen: 3.963 ug/l
RT: 4.92 min Scan# 495
Delta R.T. 0.01 min
Lab File: VW008774.D
Acq: 21 Feb 2019 17:17

Instrument :
MSVOA_W
ClientSampleId :
HD-01-022019RE

Tgt Ion: 84 Resp: 35499
Ion Ratio Lower Upper
84 100
49 131.4 108.2 162.2
51 39.9 32.7 49.1
86 65.2 50.3 75.5

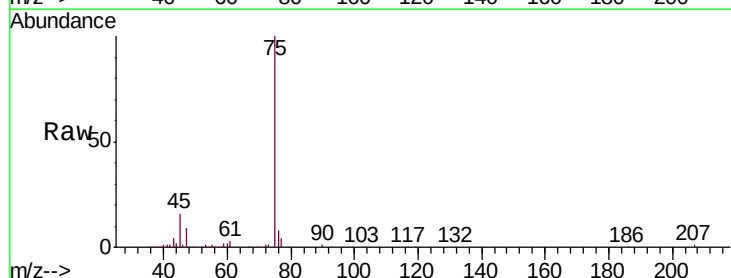


Abundance Ion 83.90 (83.60 to 84.60): VW
Ion 48.90 (48.60 to 49.60): VW
Ion 50.90 (50.60 to 51.60): VW
Ion 85.90 (85.60 to 86.60): VW

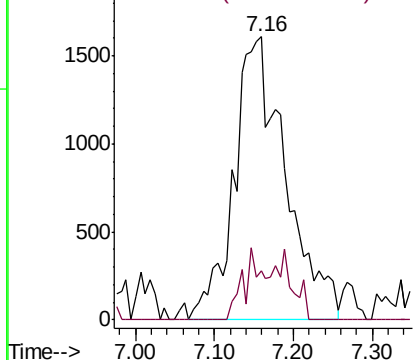
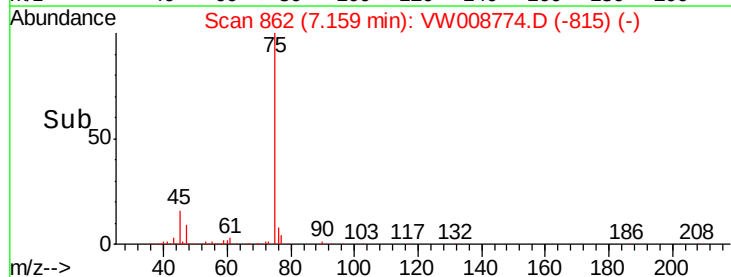


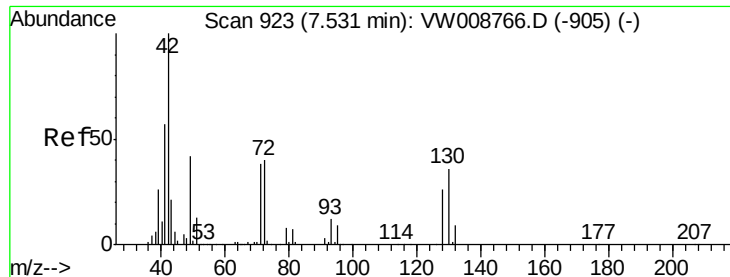
#25
2-Butanone
Concen: 6.305 ug/l
RT: 7.16 min Scan# 862
Delta R.T. -0.01 min
Lab File: VW008774.D
Acq: 21 Feb 2019 17:17

Tgt Ion: 43 Resp: 7329
Ion Ratio Lower Upper
43 100
72 17.4 19.7 29.5#



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

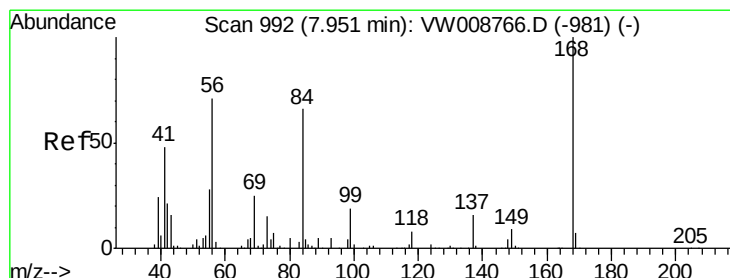
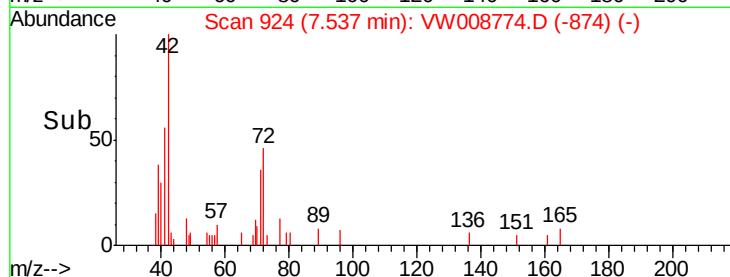
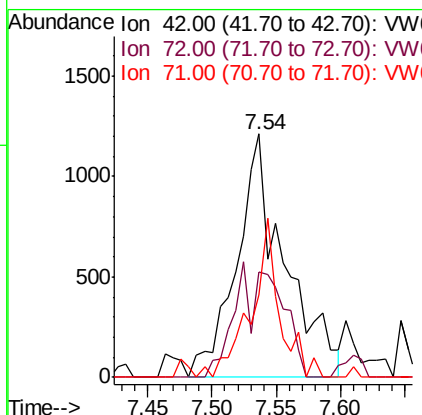
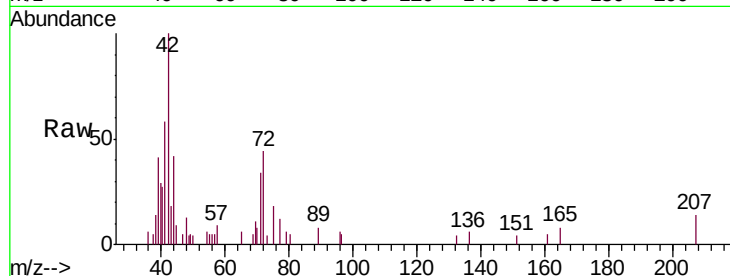




#29
Tetrahydrofuran
Concen: 4.243 ug/l
RT: 7.54 min Scan# 924
Delta R.T. 0.01 min
Lab File: VW008774.D
Acq: 21 Feb 2019 17:17

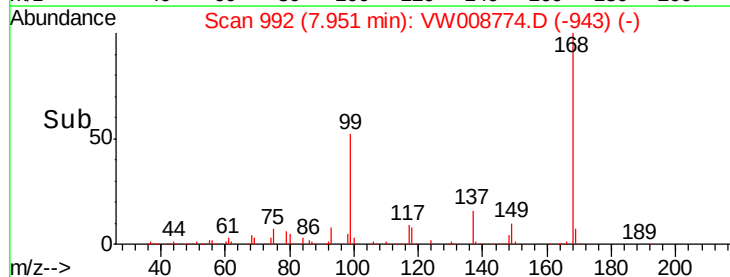
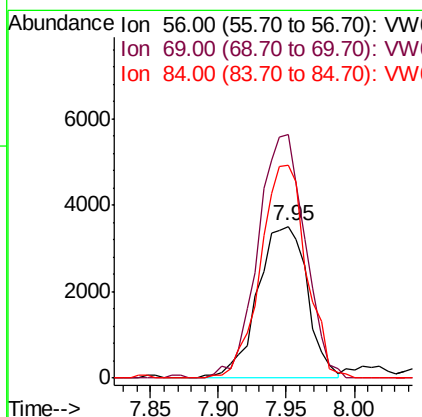
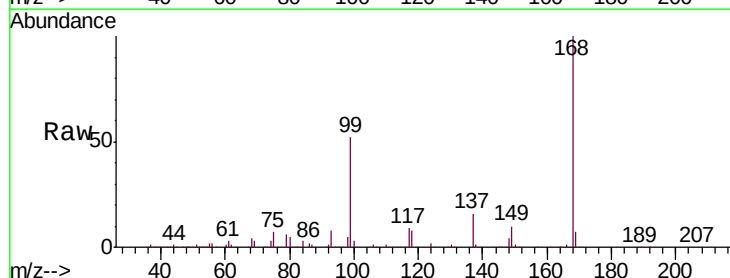
Instrument :
MSVOA_W
ClientSampleId :
HD-01-022019RE

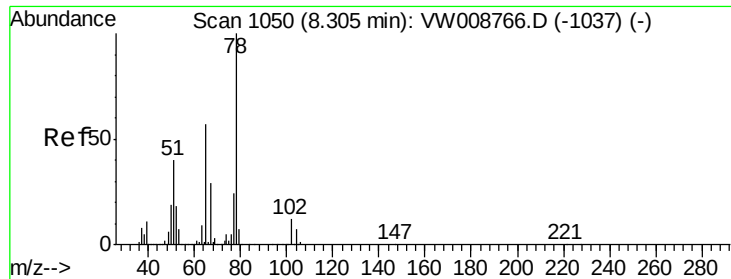
Tgt Ion: 42 Resp: 3143
Ion Ratio Lower Upper
42 100
72 26.7 32.7 49.1#
71 38.2 31.3 46.9



#31
Cyclohexane
Concen: 1.328 ug/l
RT: 7.95 min Scan# 992
Delta R.T. 0.00 min
Lab File: VW008774.D
Acq: 21 Feb 2019 17:17

Tgt Ion: 56 Resp: 8978
Ion Ratio Lower Upper
56 100
69 160.4 28.2 42.4#
84 140.3 74.1 111.1#

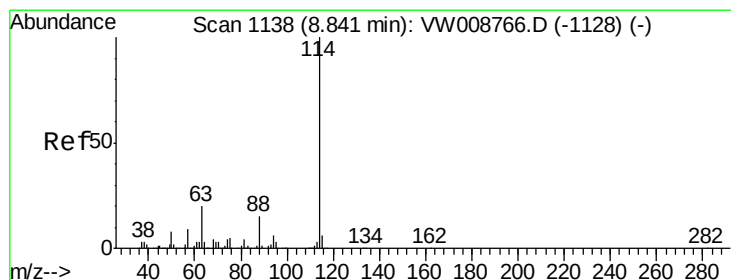
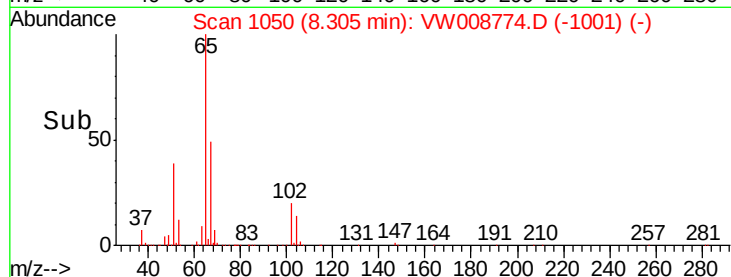
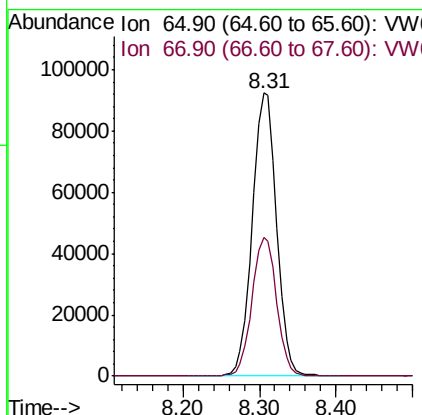
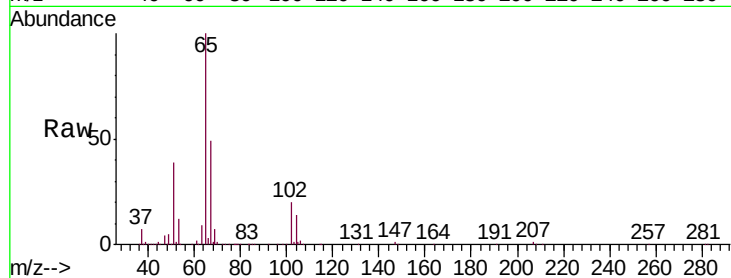




#33
 1,2-Dichloroethane-d4
 Concen: 57.162 ug/l
 RT: 8.31 min Scan# 1050
 Delta R.T. 0.00 min
 Lab File: VW008774.D
 Acq: 21 Feb 2019 17:17

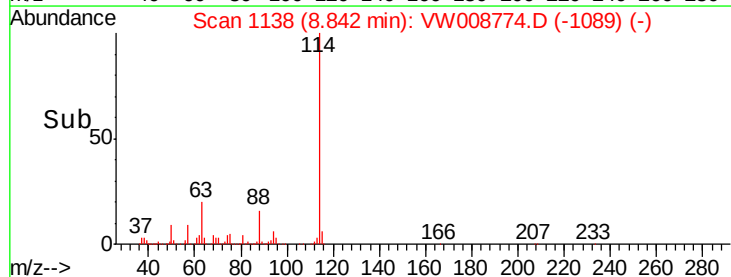
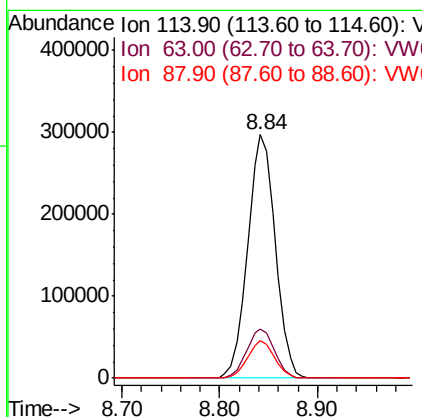
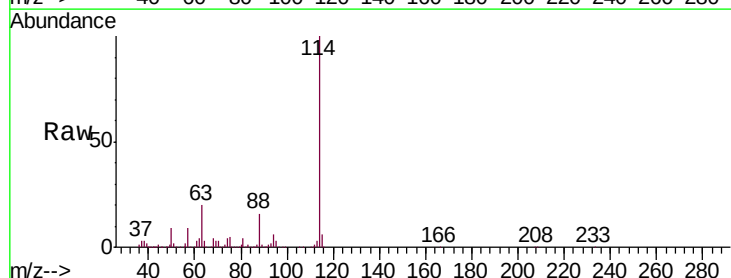
Instrument :
 MSVOA_W
 ClientSampleId :
 HD-01-022019RE

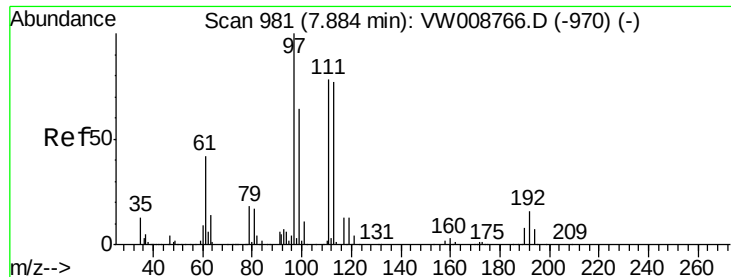
Tgt Ion: 65 Resp: 205031
 Ion Ratio Lower Upper
 65 100
 67 50.0 0.0 101.4



#34
 1,4-Difluorobenzene
 Concen: 50.000 ug/l
 RT: 8.84 min Scan# 1138
 Delta R.T. 0.00 min
 Lab File: VW008774.D
 Acq: 21 Feb 2019 17:17

Tgt Ion: 114 Resp: 578787
 Ion Ratio Lower Upper
 114 100
 63 19.9 0.0 40.8
 88 15.6 0.0 30.4

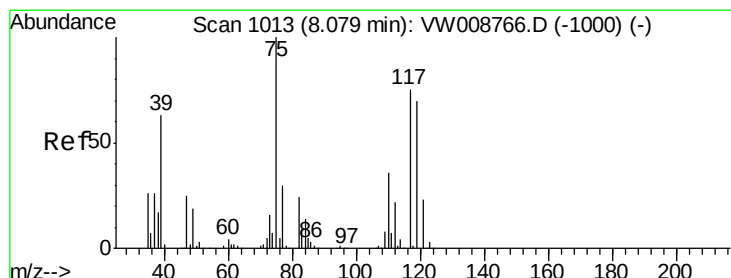
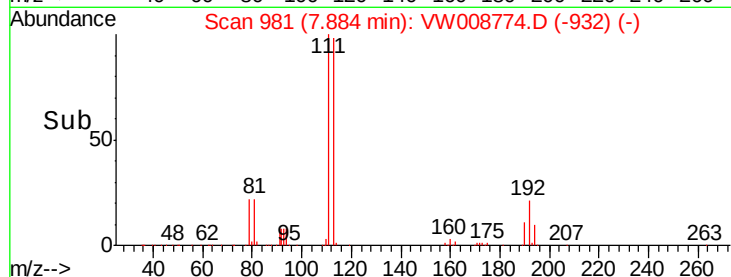
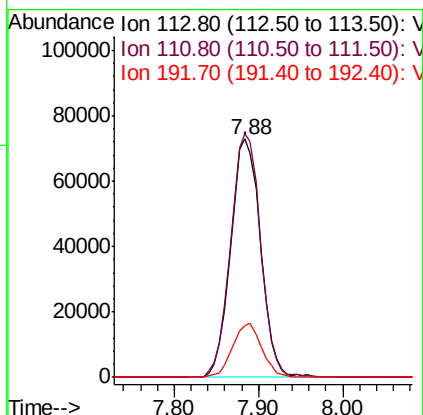
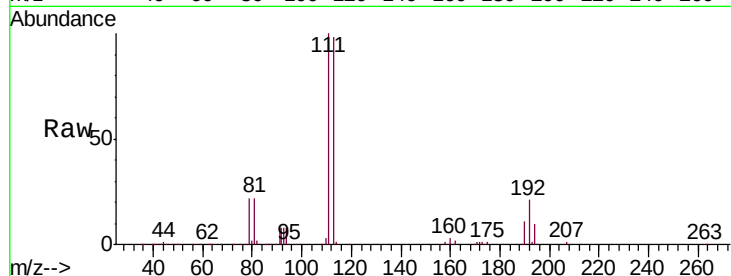




#35
 Dibromofluoromethane
 Concen: 50.247 ug/l
 RT: 7.88 min Scan# 981
 Delta R.T. 0.00 min
 Lab File: VW008774.D
 Acq: 21 Feb 2019 17:17

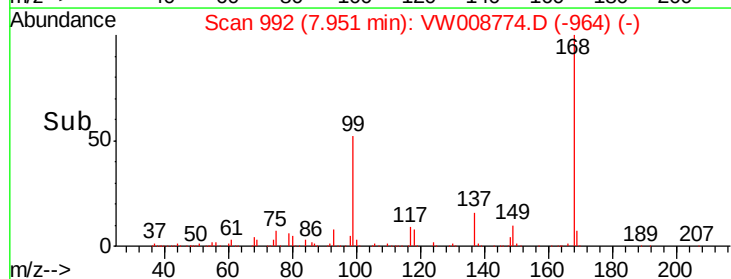
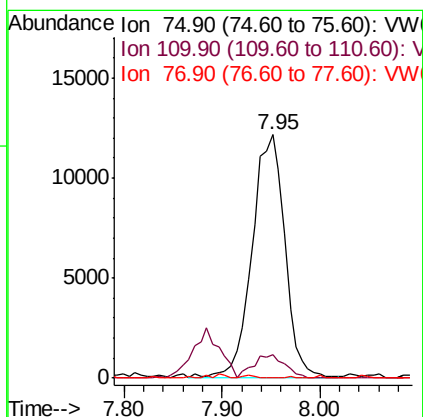
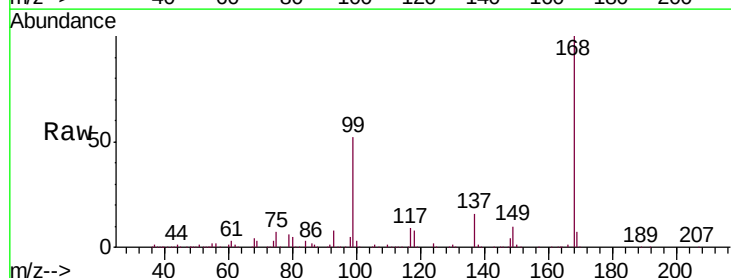
Instrument :
 MSVOA_W
 ClientSampleId :
 HD-01-022019RE

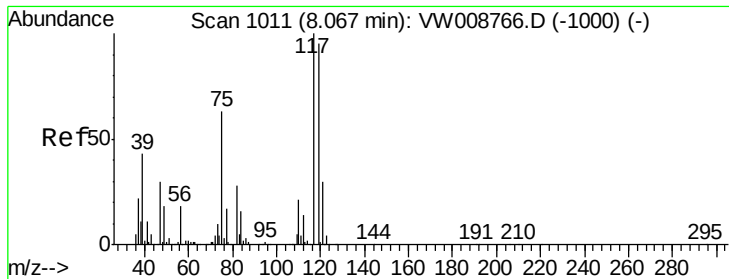
Tgt Ion	Ratio	Lower	Upper
113	100		
111	102.1	81.9	122.9
192	22.0	17.1	25.7



#36
 1,1-Dichloropropene
 Concen: 5.041 ug/l
 RT: 7.95 min Scan# 992
 Delta R.T. -0.13 min
 Lab File: VW008774.D
 Acq: 21 Feb 2019 17:17

Tgt Ion	Ratio	Lower	Upper
75	100		
110	9.3	17.5	52.6#
77	0.0	24.5	36.7#





#38

Carbon Tetrachloride

Concen: 6.136 ug/l

RT: 7.95 min Scan# 991

Delta R.T. -0.12 min

Lab File: VW008774.D

Acq: 21 Feb 2019 17:17

Instrument :

MSVOA_W

ClientSampleId :

HD-01-022019RE

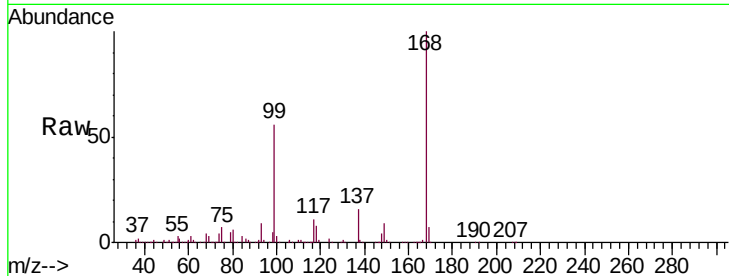
Tgt Ion:117 Resp: 36458

Ion Ratio Lower Upper

117 100

119 5.4 76.1 114.1#

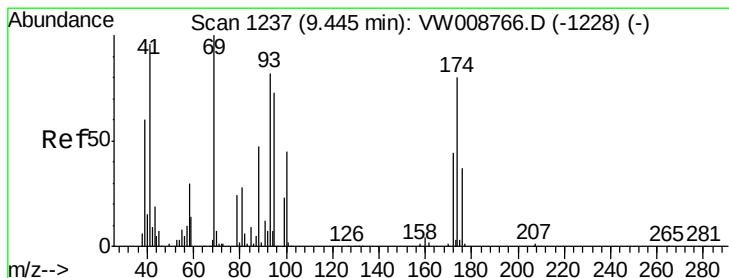
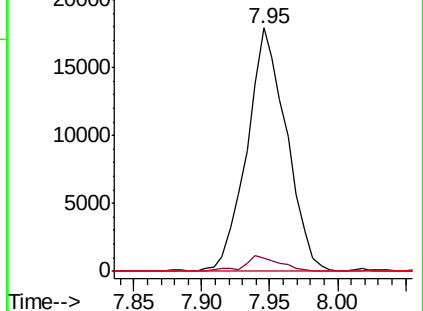
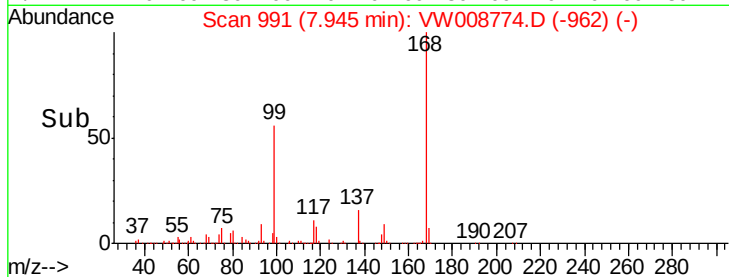
121 0.0 24.0 36.0#



Abundance Ion 116.80 (116.50 to 117.50): V

Ion 118.80 (118.50 to 119.50): V

Ion 120.80 (120.50 to 121.50): V



#49

1,4-Dioxane

Concen: 1.920 ug/l

RT: 9.46 min Scan# 1239

Delta R.T. 0.01 min

Lab File: VW008774.D

Acq: 21 Feb 2019 17:17

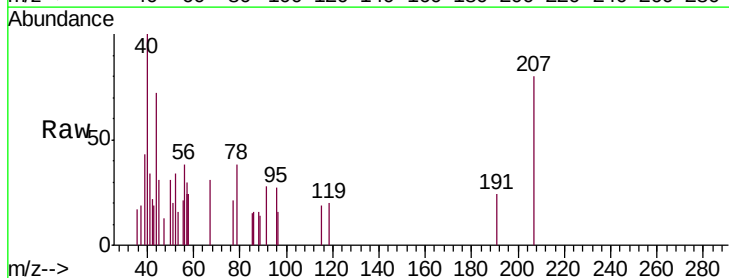
Tgt Ion: 88 Resp: 65

Ion Ratio Lower Upper

88 100

43 296.9 29.0 43.4#

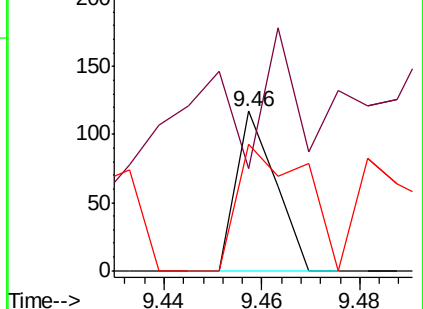
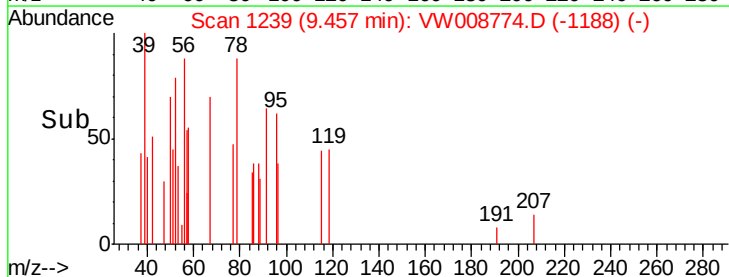
58 135.4 52.0 78.0#

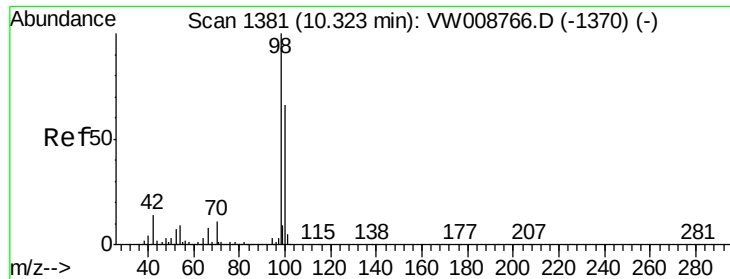


Abundance Ion 88.00 (87.70 to 88.70): VW

Ion 43.00 (42.70 to 43.70): VW

Ion 58.00 (57.70 to 58.70): VW





#50

Toluene-d8

Concen: 51.025 ug/l

RT: 10.32 min Scan# 1381

Delta R.T. 0.00 min

Lab File: VW008774.D

Acq: 21 Feb 2019 17:17

Instrument :

MSVOA_W

ClientSampleId :

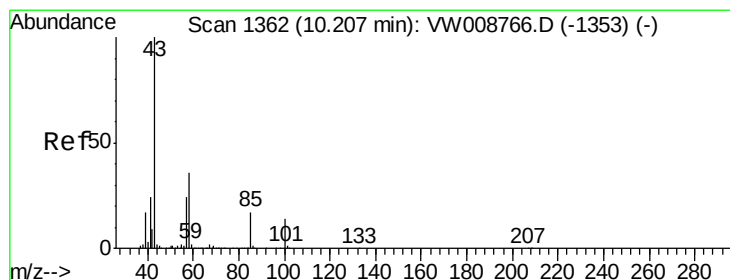
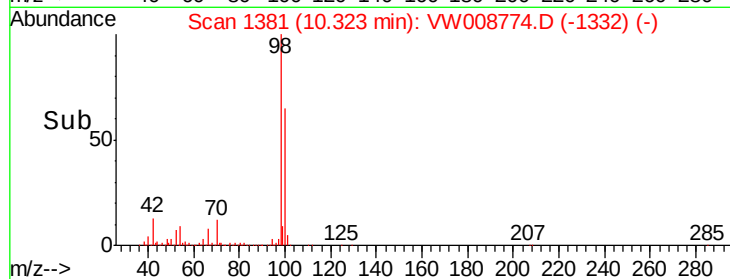
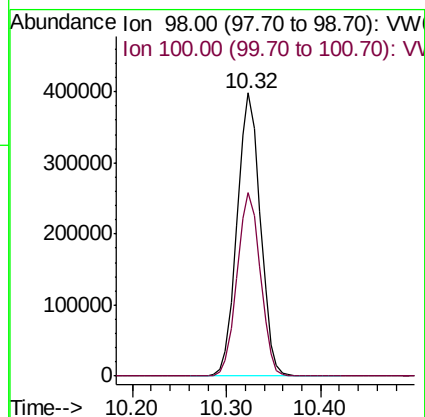
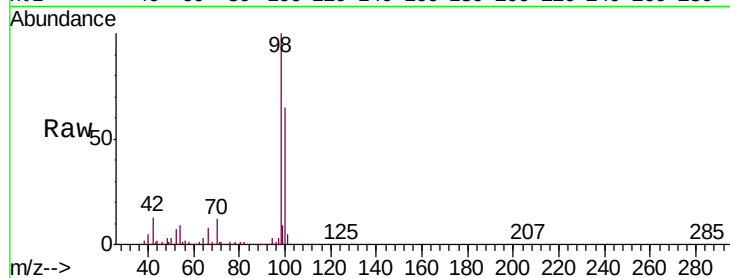
HD-01-022019RE

Tgt Ion: 98 Resp: 684492

Ion Ratio Lower Upper

98 100

100 65.2 52.4 78.6



#51

4-Methyl-2-Pentanone

Concen: 1.415 ug/l

RT: 10.21 min Scan# 1362

Delta R.T. 0.00 min

Lab File: VW008774.D

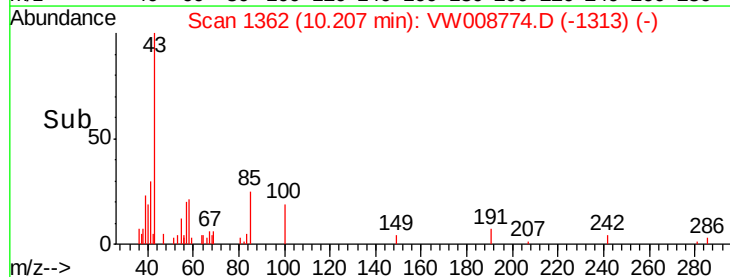
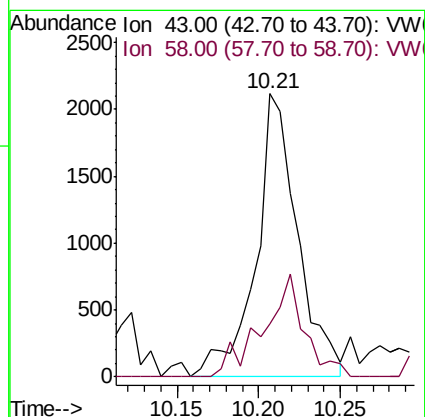
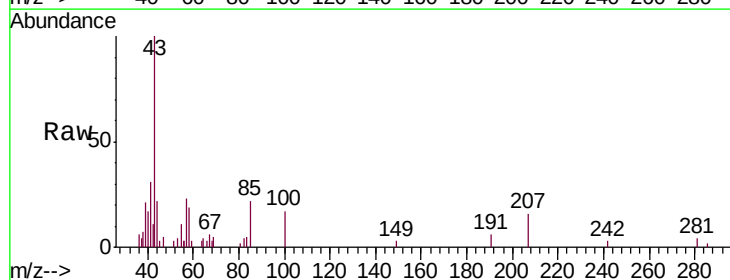
Acq: 21 Feb 2019 17:17

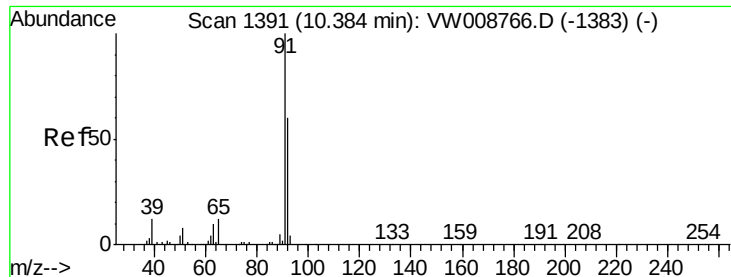
Tgt Ion: 43 Resp: 3757

Ion Ratio Lower Upper

43 100

58 36.0 29.1 43.7





#52

Toluene

Concen: 1.986 ug/l

RT: 10.39 min Scan# 1392

Delta R.T. 0.01 min

Lab File: VW008774.D

Acq: 21 Feb 2019 17:17

Instrument :

MSVOA_W

ClientSampleId :

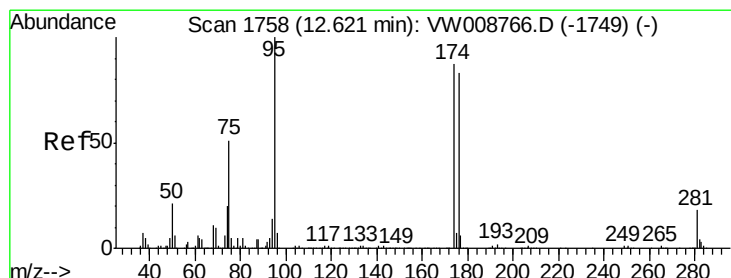
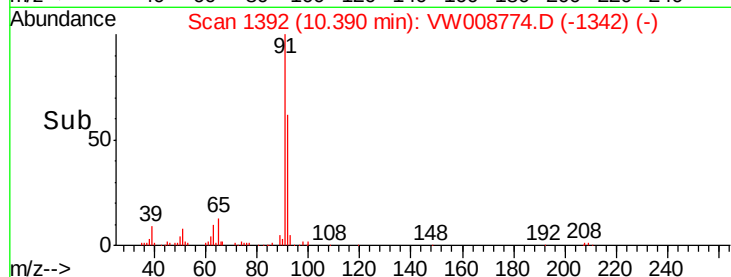
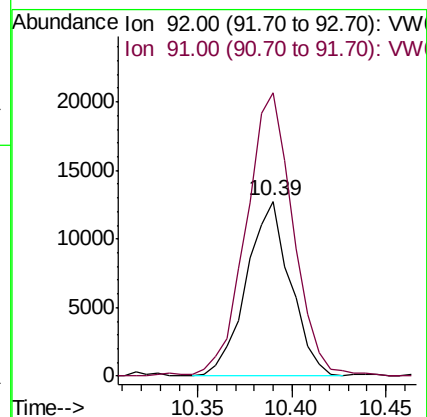
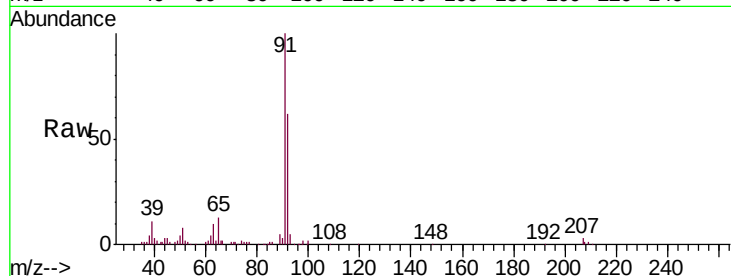
HD-01-022019RE

Tgt Ion: 92 Resp: 20736

Ion Ratio Lower Upper

92 100

91 173.3 136.9 205.3



#62

4-Bromofluorobenzene

Concen: 43.804 ug/l

RT: 12.62 min Scan# 1757

Delta R.T. -0.01 min

Lab File: VW008774.D

Acq: 21 Feb 2019 17:17

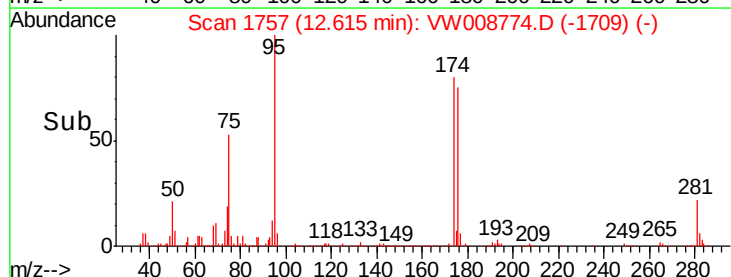
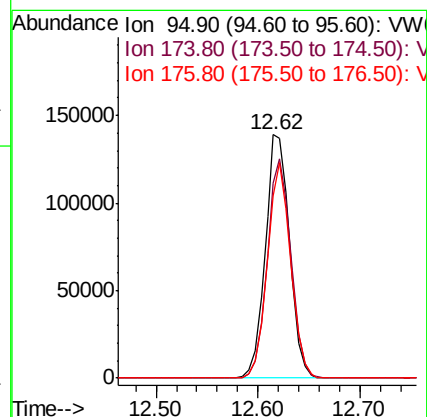
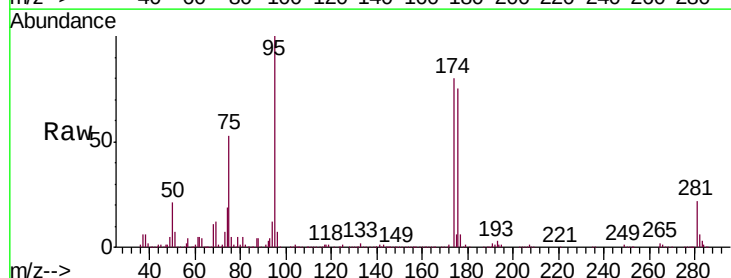
Tgt Ion: 95 Resp: 230080

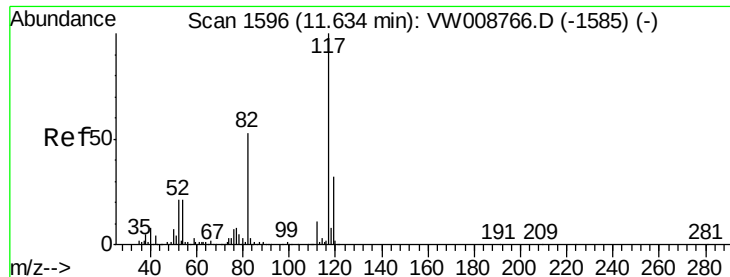
Ion Ratio Lower Upper

95 100

174 87.8 0.0 169.2

176 84.4 0.0 163.6

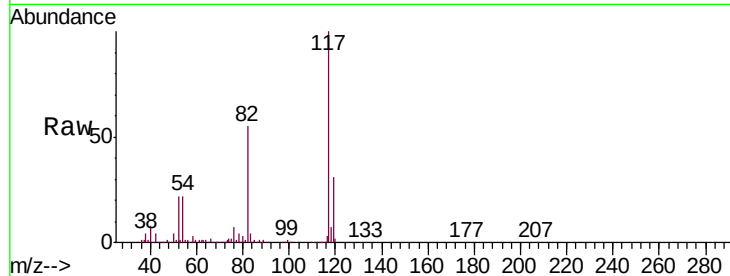




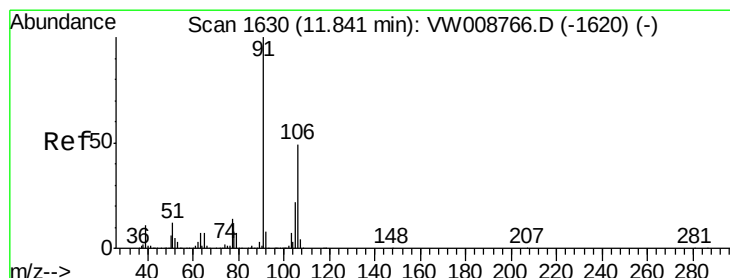
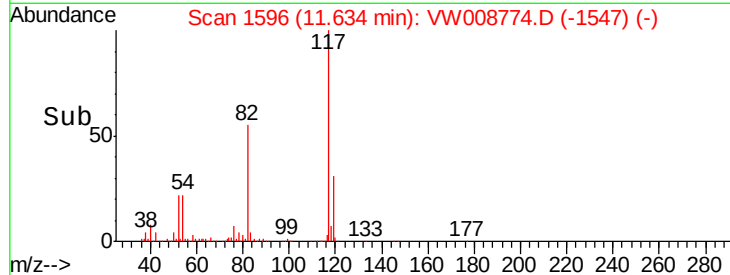
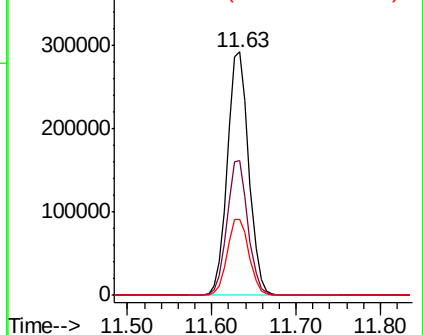
#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.63 min Scan# 1596
Delta R.T. 0.00 min
Lab File: VW008774.D
Acq: 21 Feb 2019 17:17

Instrument :
MSVOA_W
ClientSampleId :
HD-01-022019RE

Tgt Ion	Ratio	Lower	Upper
117	100		
82	55.4	42.2	63.4
119	31.0	25.9	38.9

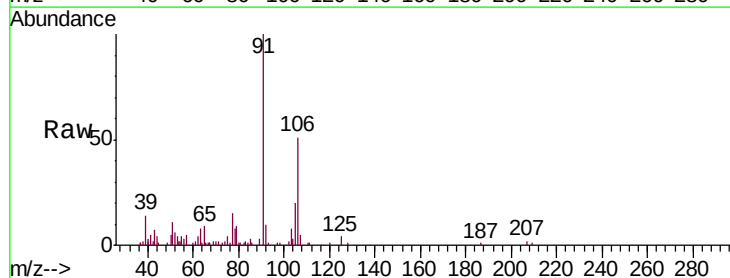


Abundance Ion 116.90 (116.60 to 117.60): V
Ion 82.00 (81.70 to 82.70): VW
Ion 118.90 (118.60 to 119.60): V

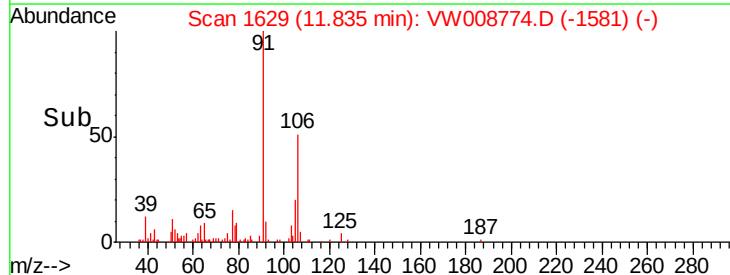
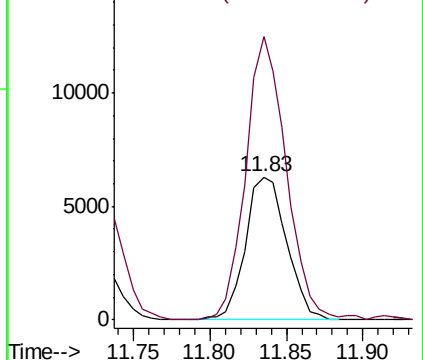


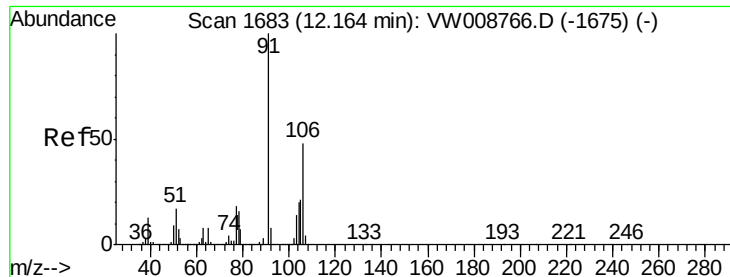
#68
m/p-Xylenes
Concen: 1.549 ug/l
RT: 11.83 min Scan# 1629
Delta R.T. -0.01 min
Lab File: VW008774.D
Acq: 21 Feb 2019 17:17

Tgt Ion	Ratio	Lower	Upper
106	100		
91	194.5	161.5	242.3



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

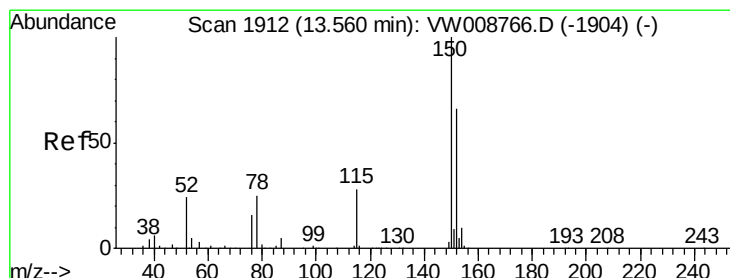
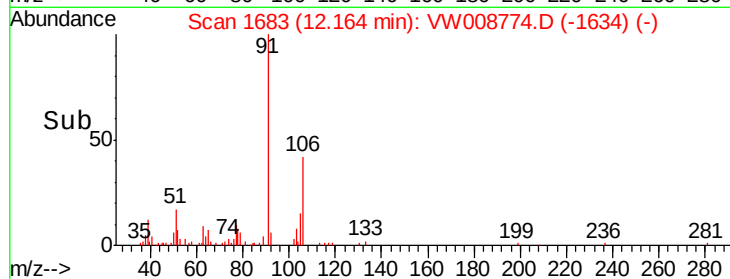
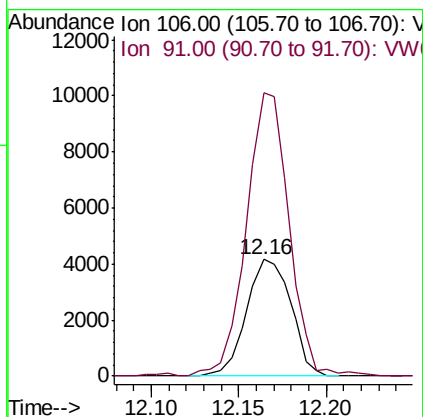
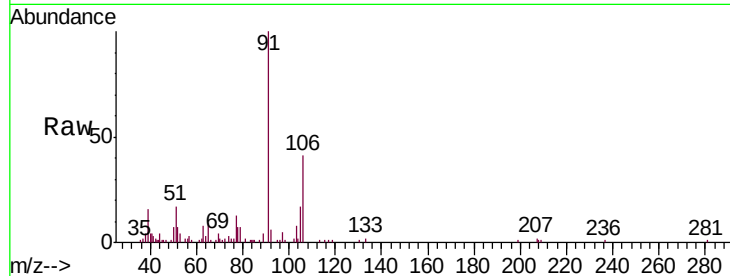




#69
o-Xylene
Concen: 1.033 ug/l
RT: 12.16 min Scan# 1683
Delta R.T. 0.00 min
Lab File: VW008774.D
Acq: 21 Feb 2019 17:17

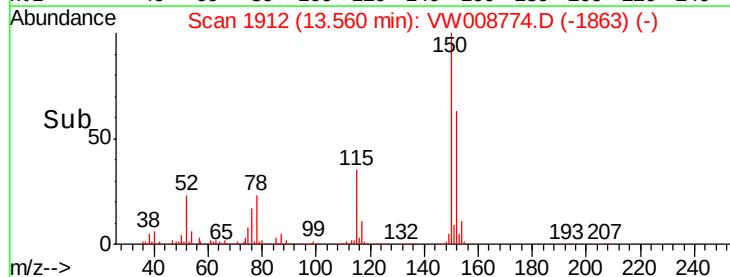
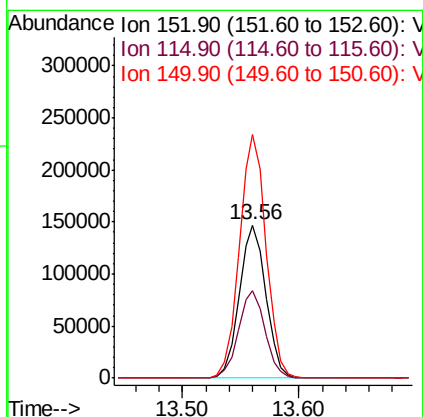
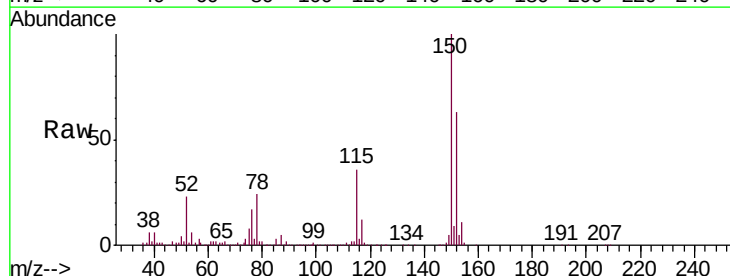
Instrument :
MSVOA_W
ClientSampleId :
HD-01-022019RE

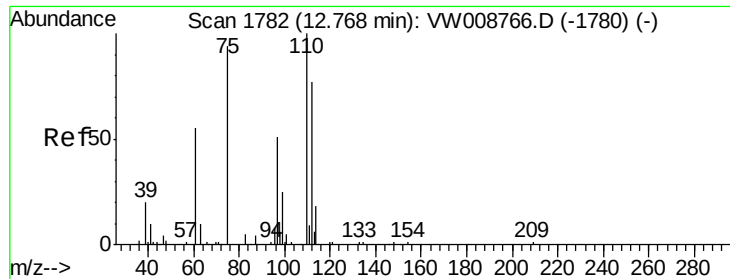
Tgt Ion:106 Resp: 7401
Ion Ratio Lower Upper
106 100
91 232.5 106.2 318.6



#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 13.56 min Scan# 1912
Delta R.T. 0.00 min
Lab File: VW008774.D
Acq: 21 Feb 2019 17:17

Tgt Ion:152 Resp: 233484
Ion Ratio Lower Upper
152 100
115 57.1 28.6 85.8
150 158.8 0.0 348.0

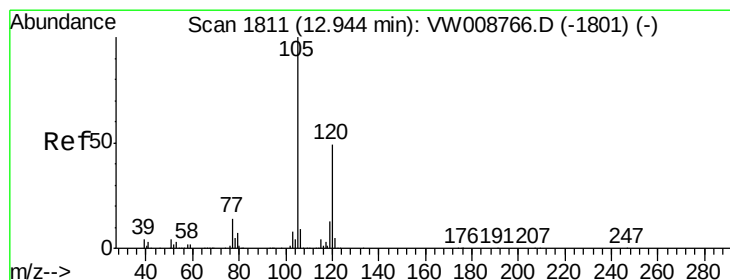
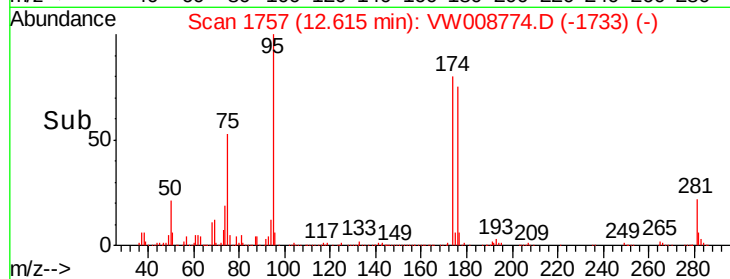
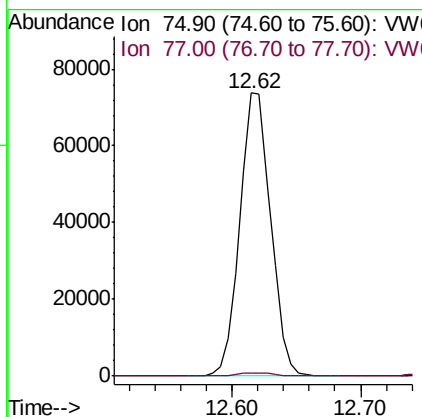
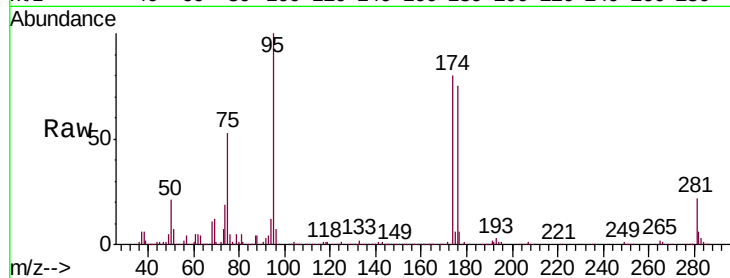




#76
 1,2,3-Trichloropropane
 Concen: 63.176 ug/l
 RT: 12.62 min Scan# 1757
 Delta R.T. -0.15 min
 Lab File: VW008774.D
 Acq: 21 Feb 2019 17:17

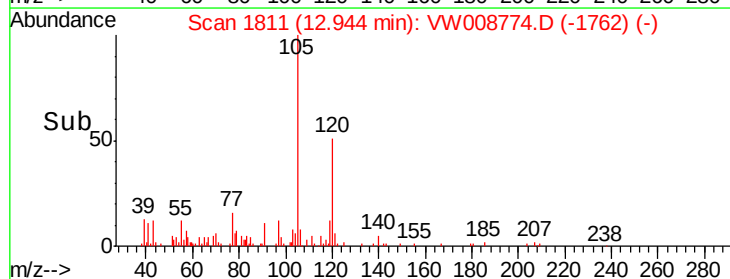
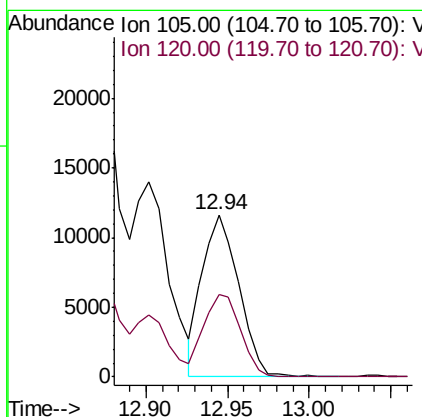
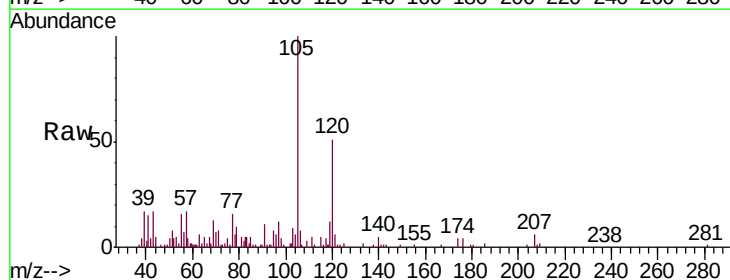
Instrument :
 MSVOA_W
 ClientSampleId :
 HD-01-022019RE

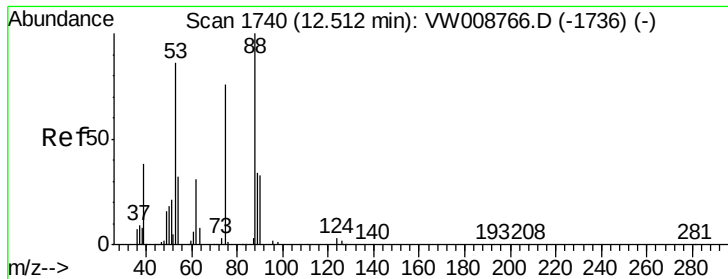
Tgt Ion: 75 Resp: 121785
 Ion Ratio Lower Upper
 75 100
 77 1.4 0.0 0.0#



#80
 1,3,5-Trimethylbenzene
 Concen: 1.306 ug/l
 RT: 12.94 min Scan# 1811
 Delta R.T. 0.00 min
 Lab File: VW008774.D
 Acq: 21 Feb 2019 17:17

Tgt Ion: 105 Resp: 18166
 Ion Ratio Lower Upper
 105 100
 120 50.9 24.8 74.4





#81

trans-1,4-Dichloro-2-butene

Concen: 153.585 ug/l

RT: 12.62 min Scan# 1757

Delta R.T. 0.10 min

Lab File: VW008774.D

Acq: 21 Feb 2019 17:17

Instrument :

MSVOA_W

ClientSampleId :

HD-01-022019RE

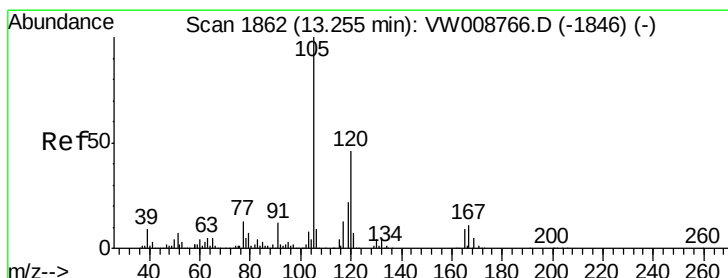
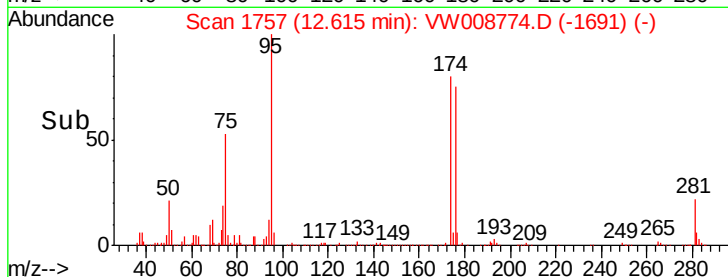
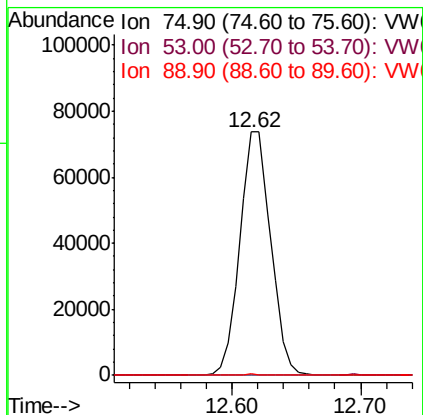
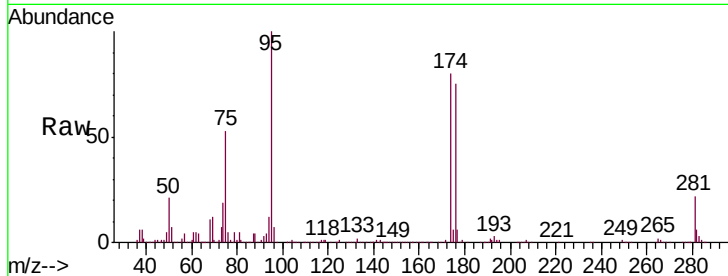
Tgt Ion: 75 Resp: 121785

Ion Ratio Lower Upper

75 100

53 0.2 88.2 132.2#

89 0.3 39.5 59.3#



#84

1,2,4-Trimethylbenzene

Concen: 4.791 ug/l

RT: 13.26 min Scan# 1862

Delta R.T. 0.00 min

Lab File: VW008774.D

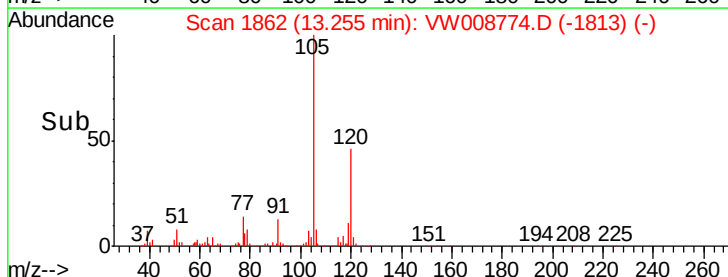
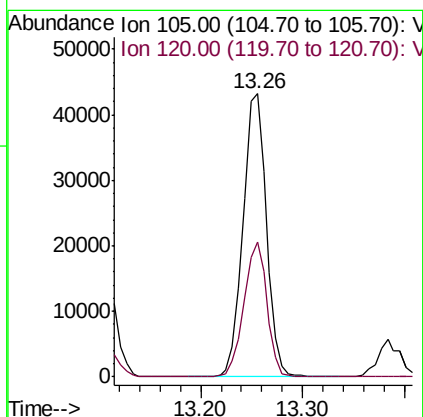
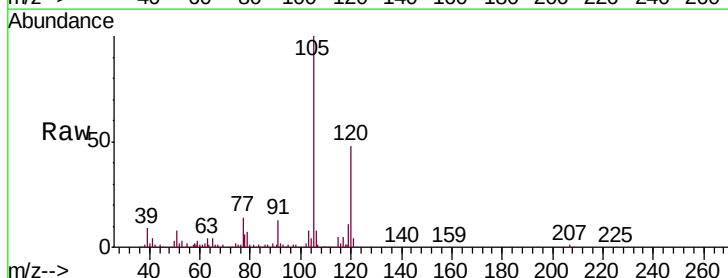
Acq: 21 Feb 2019 17:17

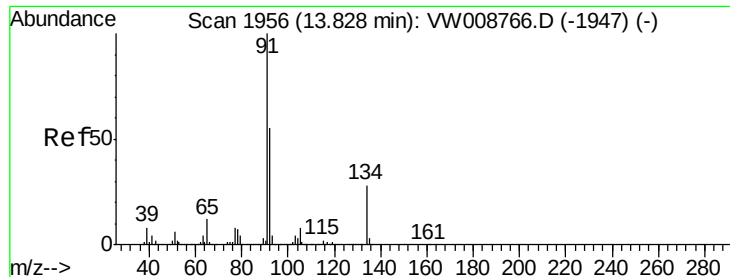
Tgt Ion: 105 Resp: 68987

Ion Ratio Lower Upper

105 100

120 46.5 22.8 68.4





#89

n-Butylbenzene

Concen: 1.148 ug/l

RT: 13.83 min Scan# 1956

Delta R.T. 0.00 min

Lab File: VW008774.D

Acq: 21 Feb 2019 17:17

Instrument :

MSVOA_W

ClientSampleId :

HD-01-022019RE

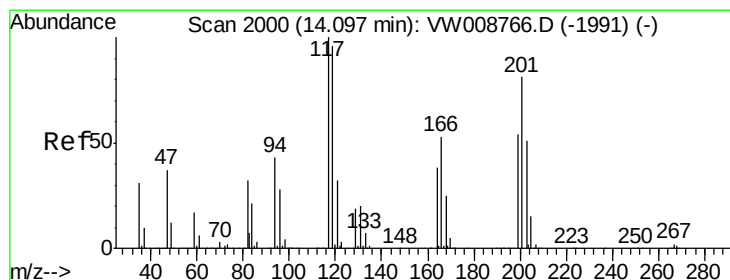
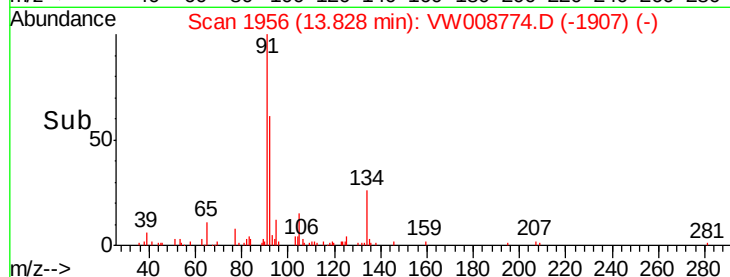
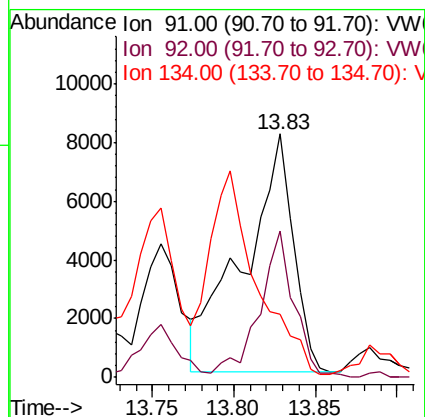
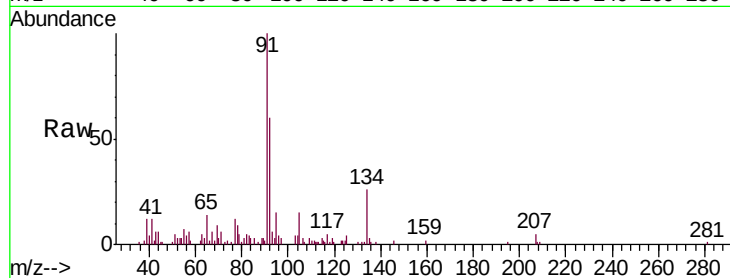
Tgt Ion: 91 Resp: 17044

Ion Ratio Lower Upper

91 100

92 43.3 26.8 80.4

134 0.0 13.5 40.4#



#90

Hexachloroethane

Concen: 1.187 ug/l

RT: 14.10 min Scan# 2000

Delta R.T. 0.00 min

Lab File: VW008774.D

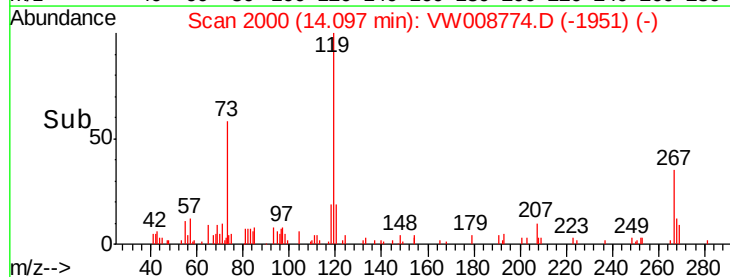
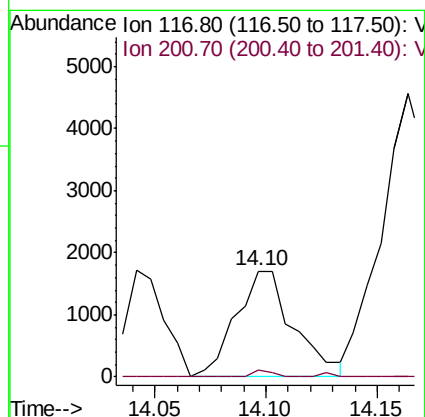
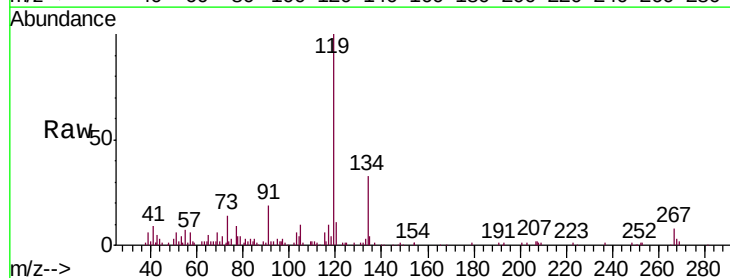
Acq: 21 Feb 2019 17:17

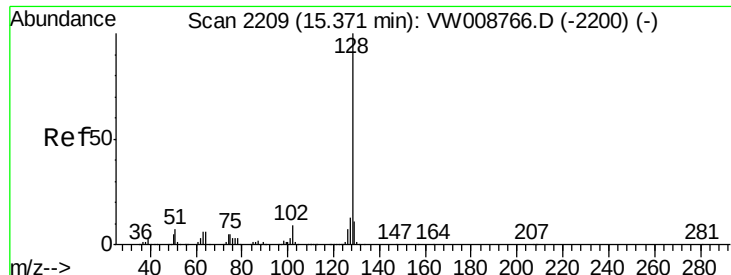
Tgt Ion: 117 Resp: 3081

Ion Ratio Lower Upper

117 100

201 2.1 40.3 120.8#

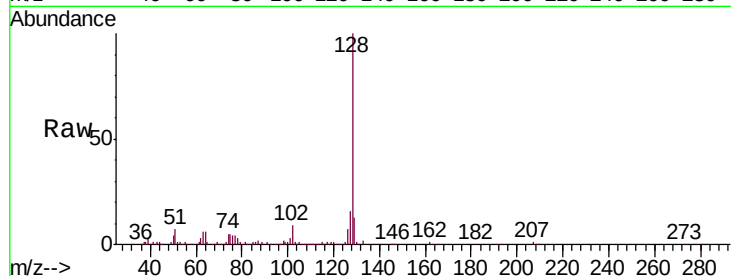




#95
Naphthalene
Concen: 16.824 ug/l
RT: 15.37 min Scan# 2209
Delta R.T. 0.00 min
Lab File: VW008774.D
Acq: 21 Feb 2019 17:17

Instrument :
MSVOA_W
ClientSampleId :
HD-01-022019RE

Tgt Ion	Ratio	Lower	Upper
128	100		
127	14.6	10.8	16.2
129	11.8	8.7	13.1



Abundance

Ion 128.00 (127.70 to 128.70): V

Ion 127.00 (126.70 to 127.70): V

Ion 129.00 (128.70 to 129.70): V

