

Data Path : Z:\VOASRV\HPCHEM1\MSVOA W\DATA\VW052219\
 Data File : VW010515.D
 Acq On : 22 May 2019 17:25
 Operator : SY/VA
 Sample : K3002-08
 Misc : 5.03G/5ML/MSVOA W/SOIL
 ALS Vial : 17 Sample Multiplier: 1

Instrument :
 MSVOA_W
 ClientSampleId :
 22-C6-20190413

Quant Time: May 23 06:58:45 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_W\METHOD\82W052019S.M
 Quant Title : SW846 8260
 QLast Update : Tue May 21 06:38:43 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	7.95	168	115168	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	8.84	114	207204	50.00	ug/l	0.00
63) Chlorobenzene-d5	11.63	117	162090	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.56	152	53274	50.00	ug/l	0.00

System Monitoring Compounds	R.T.	QIon	Response	Conc	Units	Dev(Min)
33) 1,2-Dichloroethane-d4	8.31	65	36363	30.59	ug/l	0.00
Spiked Amount			Recovery	=	61.18%	
35) Dibromofluoromethane	7.88	113	37069	29.48	ug/l	0.00
Spiked Amount			Recovery	=	58.96%	
50) Toluene-d8	10.32	98	126330	26.30	ug/l	0.00
Spiked Amount			Recovery	=	52.60%	
62) 4-Bromofluorobenzene	12.62	95	43437	22.70	ug/l	0.00
Spiked Amount			Recovery	=	45.40%	

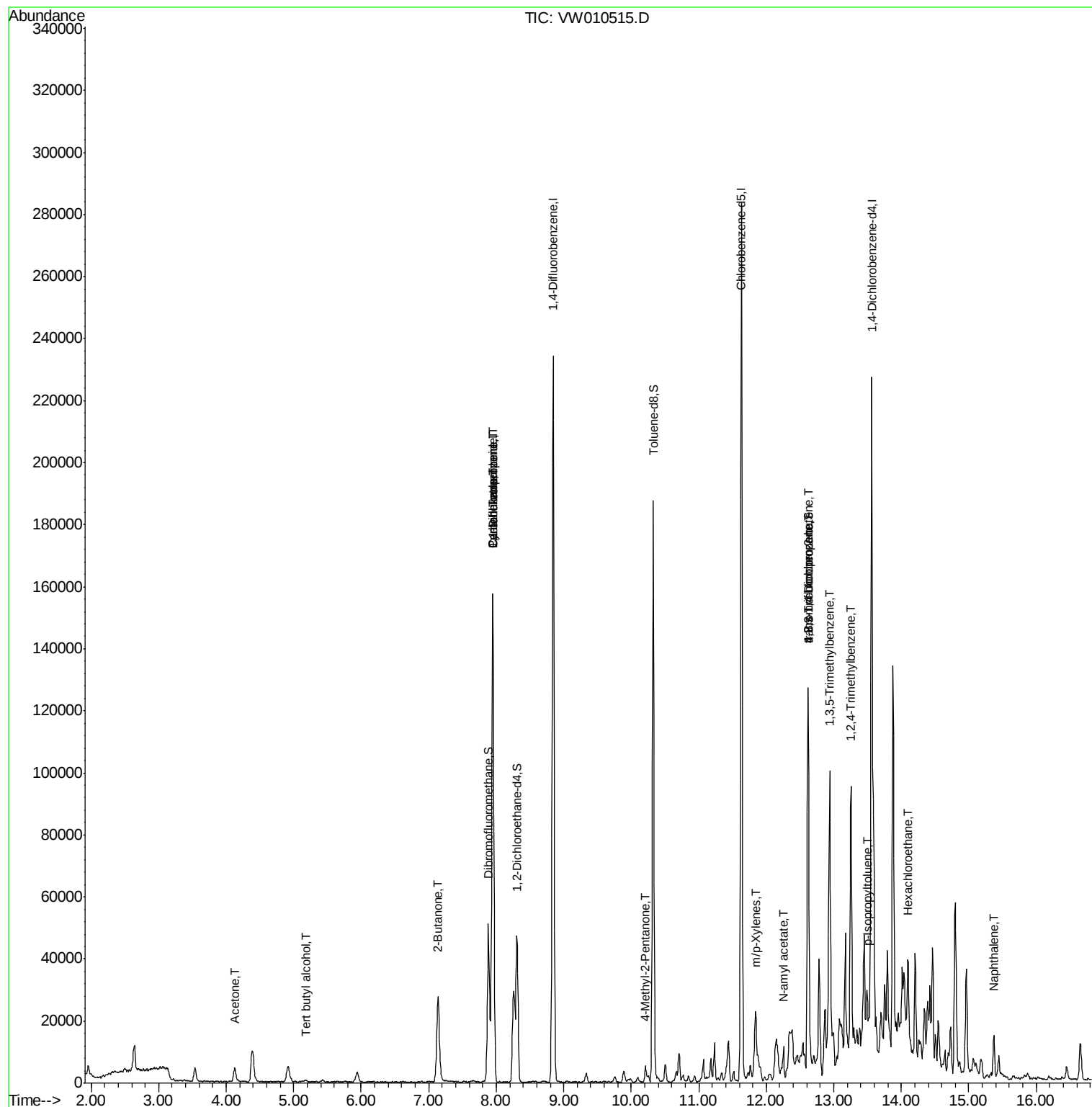
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
2) Dichlorodifluoromethane	2.00	85	112	Below Cal	#	42
11) Tert butyl alcohol	5.17	59	907	8.483	ug/l #	71
16) Acetone	4.12	43	7909	32.595	ug/l	94
20) Methylene Chloride	4.92	84	4318	Below Cal	#	86
25) 2-Butanone	7.14	43	1457	4.196	ug/l #	45
31) Cyclohexane	7.95	56	2586	1.146	ug/l #	1
36) 1,1-Dichloropropene	7.95	75	9244	4.789	ug/l #	48
38) Carbon Tetrachloride	7.95	117	12463	5.985	ug/l #	16
51) 4-Methyl-2-Pentanone	10.21	43	3789	4.560	ug/l	93
68) m/p-Xylenes	11.83	106	3304	1.381	ug/l	98
74) N-amyl acetate	12.25	43	2210	2.281	ug/l #	40
76) 1,2,3-Trichloropropane	12.62	75	20938	38.719	ug/l #	1
80) 1,3,5-Trimethylbenzene	12.94	105	16395	4.579	ug/l	97
81) trans-1,4-Dichloro-2-buten	12.62	75	20938	80.808	ug/l #	14
84) 1,2,4-Trimethylbenzene	13.26	105	48324	13.551	ug/l	98
86) p-Isopropyltoluene	13.50	119	4979	1.257	ug/l	91
90) Hexachloroethane	14.10	117	1432	1.868	ug/l #	15
95) Naphthalene	15.37	128	11970	4.956	ug/l	97

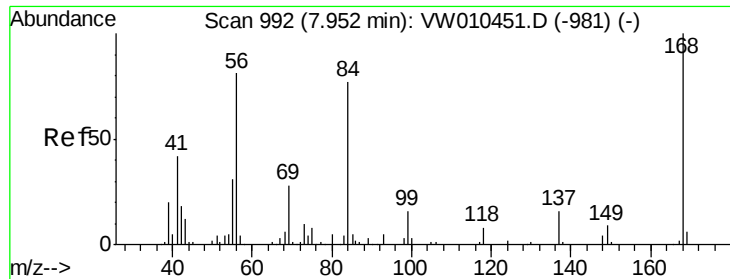
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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Quant Title : SW846 8260
QLast Update : Tue May 21 06:38:43 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: VW010515.D

Acq: 22 May 2019 17:25

Instrument :

MSVOA_W

ClientSampleId :

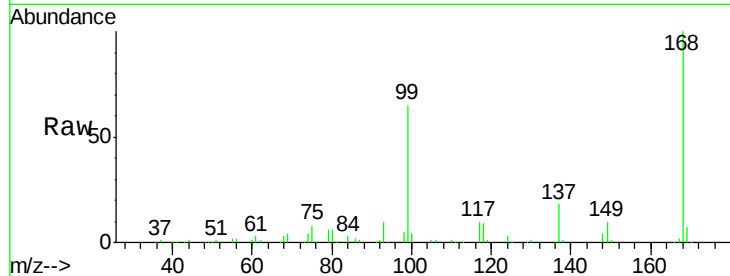
22-C6-20190413

Tot Ion:168 Resp: 115168

Ion Ratio Lower Upper

168 100

99 65.3 46.1 69.1



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VW

7.95

60000

50000

40000

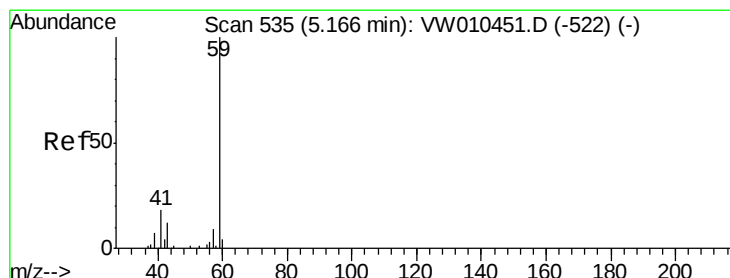
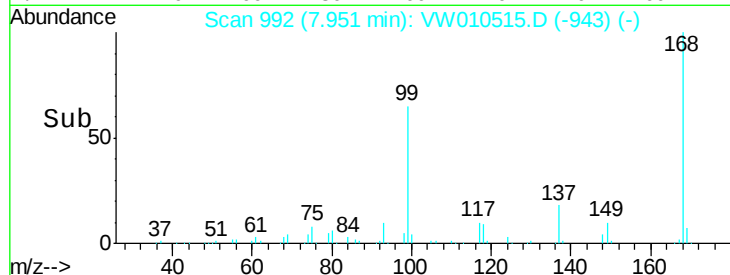
30000

20000

10000

0

Time-->



#11

Tert butyl alcohol

Concen: 8.483 ug/l

RT: 5.17 min Scan# 536

Delta R.T. 0.01 min

Lab File: VW010515.D

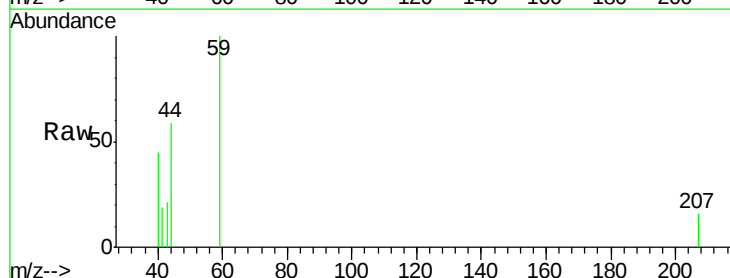
Acq: 22 May 2019 17:25

Tgt Ion: 59 Resp: 907

Ion Ratio Lower Upper

59 100

57 0.0 8.8 13.2#



Abundance Ion 59.00 (58.70 to 59.70): VW

Ion 57.00 (56.70 to 57.70): VW

5.17

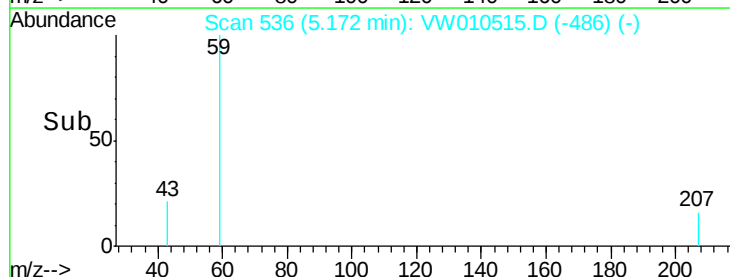
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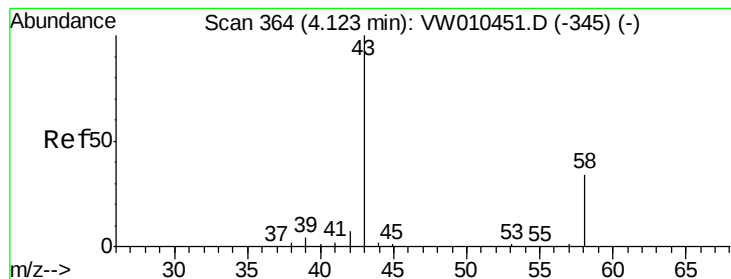
200

100

0

Time-->





#16

Acetone

Concen: 32.595 ug/l

RT: 4.12 min Scan# 364

Delta R.T. -0.00 min

Lab File: VW010515.D

Acq: 22 May 2019 17:25

Instrument :

MSVOA_W

ClientSampleId :

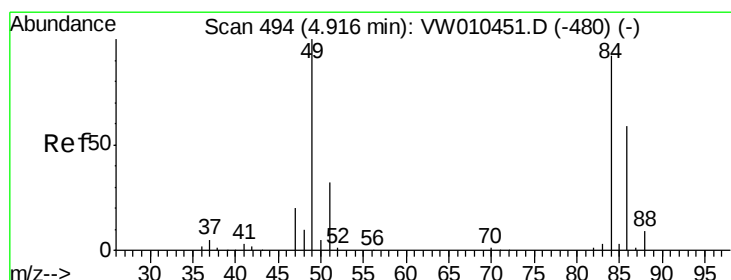
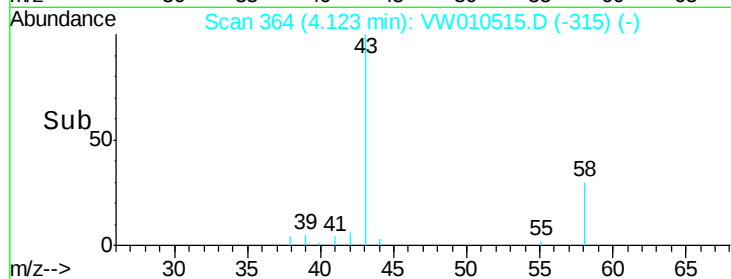
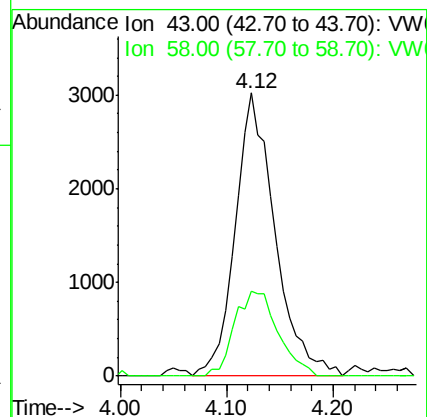
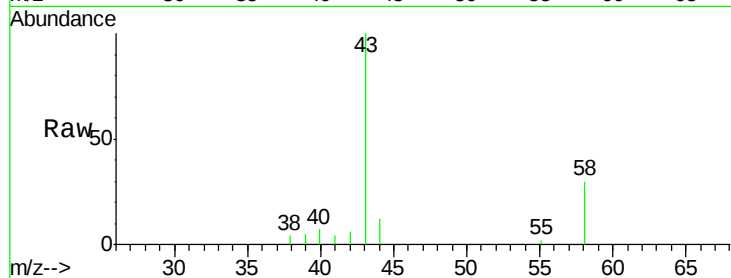
22-C6-20190413

Tot Ion: 43 Resp: 7909

Ion Ratio Lower Upper

43 100

58 30.0 27.0 40.4



#20

Methylene Chloride

Concen: Below Cal

RT: 4.92 min Scan# 495

Delta R.T. 0.01 min

Lab File: VW010515.D

Acq: 22 May 2019 17:25

Tgt Ion: 84 Resp: 4318

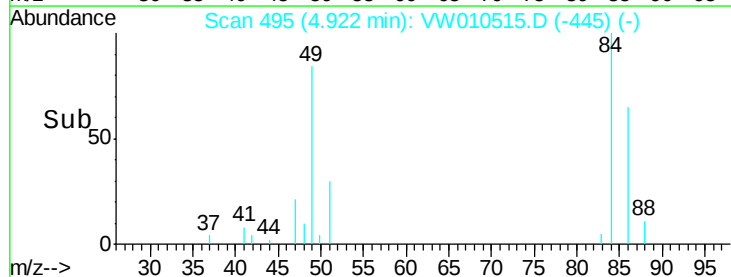
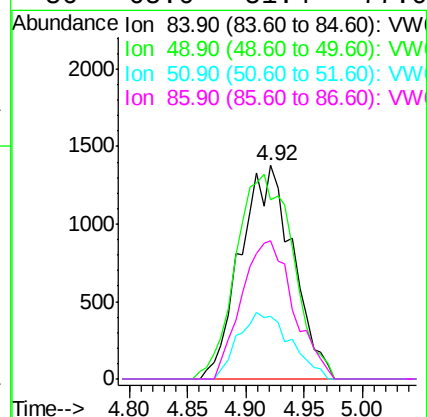
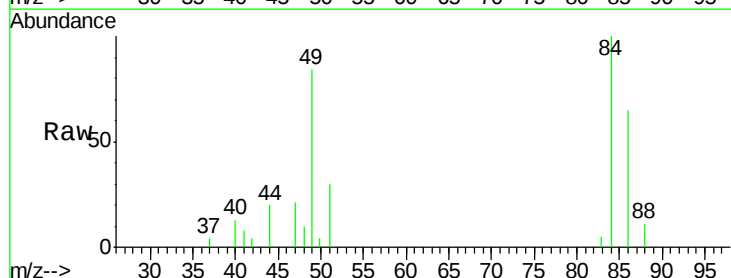
Ion Ratio Lower Upper

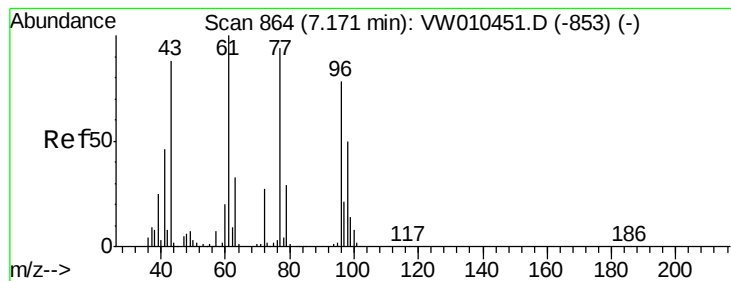
84 100

49 83.8 87.2 130.8#

51 29.5 27.7 41.5

86 65.0 51.4 77.0





#25

2-Butanone

Concen: 4.196 ug/l

RT: 7.14 min Scan# 859

Delta R.T. -0.03 min

Lab File: VW010515.D

Acq: 22 May 2019 17:25

Instrument :

MSVOA_W

ClientSampleId :

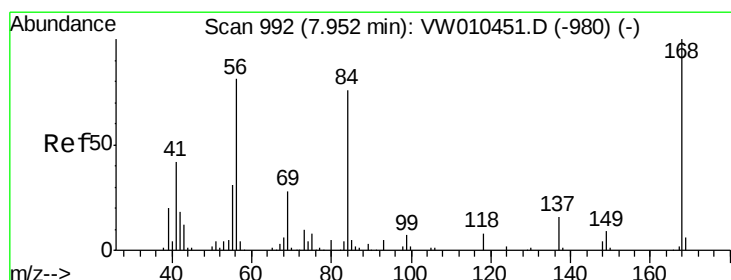
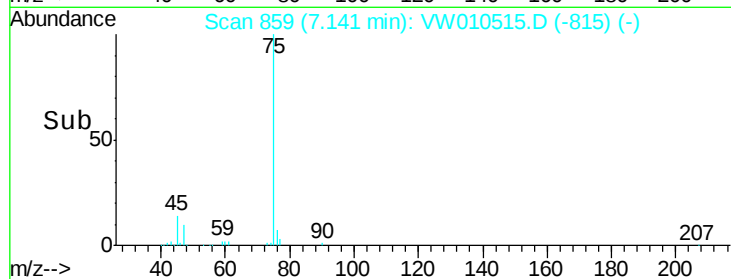
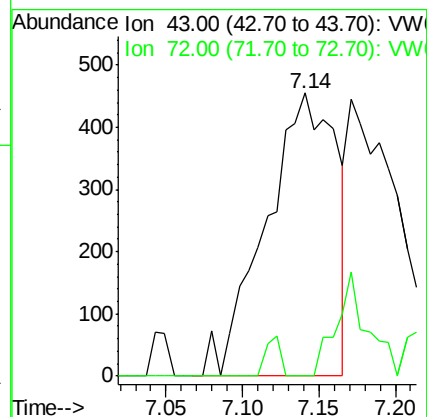
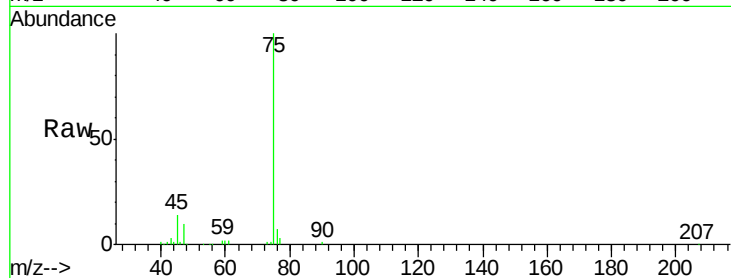
22-C6-20190413

Tot Ion: 43 Resp: 1457

Ion Ratio Lower Upper

43 100

72 0.0 24.1 36.1#



#31

Cyclohexane

Concen: 1.146 ug/l

RT: 7.95 min Scan# 991

Delta R.T. -0.01 min

Lab File: VW010515.D

Acq: 22 May 2019 17:25

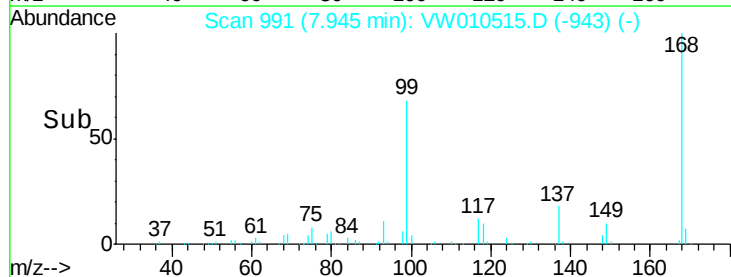
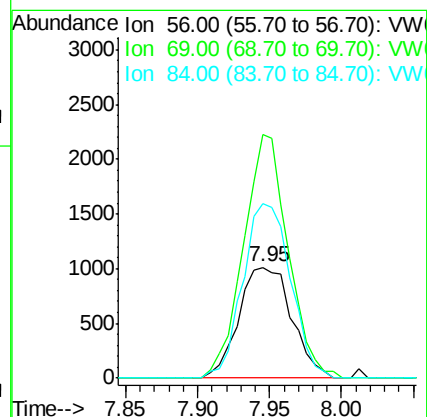
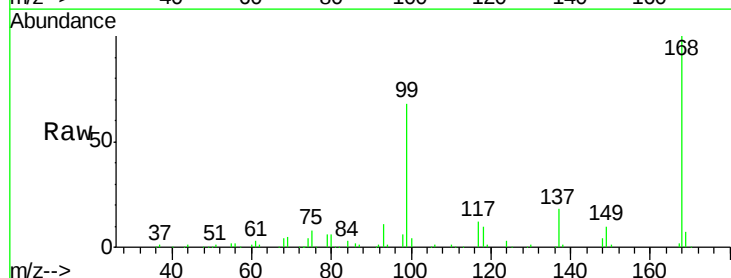
Tgt Ion: 56 Resp: 2586

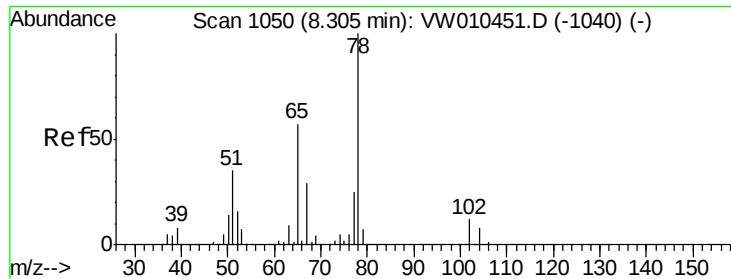
Ion Ratio Lower Upper

56 100

69 220.2 28.2 42.2#

84 158.1 75.8 113.8#





#33

1,2-Dichloroethane-d4

Concen: 30.590 ug/l

RT: 8.31 min Scan# 1050

Delta R.T. -0.00 min

Lab File: VW010515.D

Acq: 22 May 2019 17:25

Instrument :

MSVOA_W

ClientSampleId :

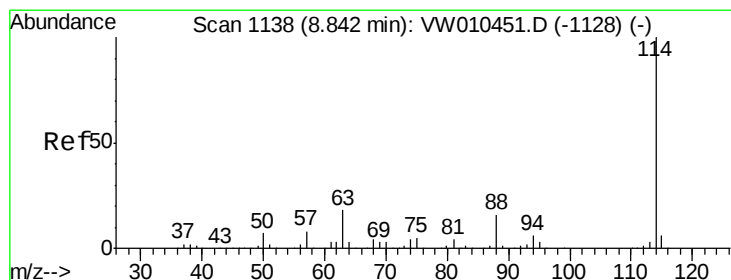
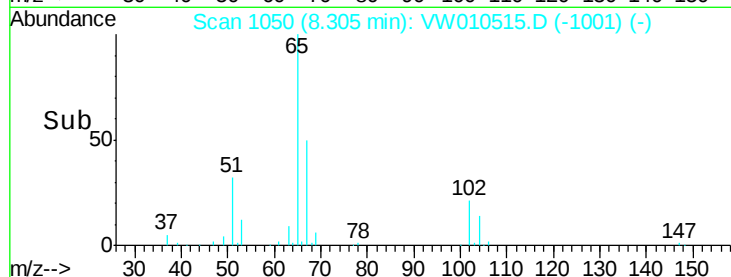
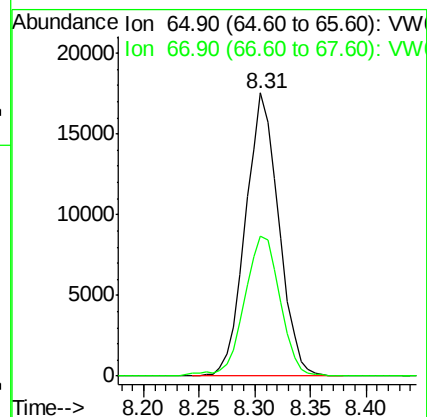
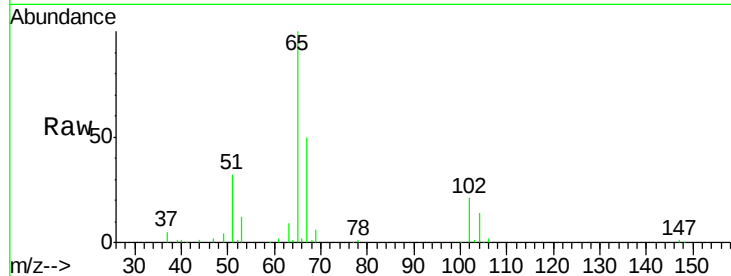
22-C6-20190413

Tot Ion: 65 Resp: 36363

Ion Ratio Lower Upper

65 100

67 53.3 0.0 103.6



#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 8.84 min Scan# 1138

Delta R.T. -0.00 min

Lab File: VW010515.D

Acq: 22 May 2019 17:25

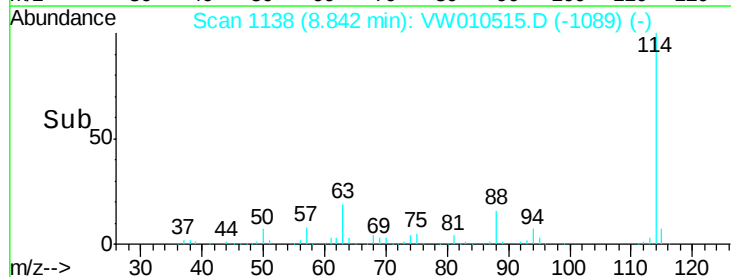
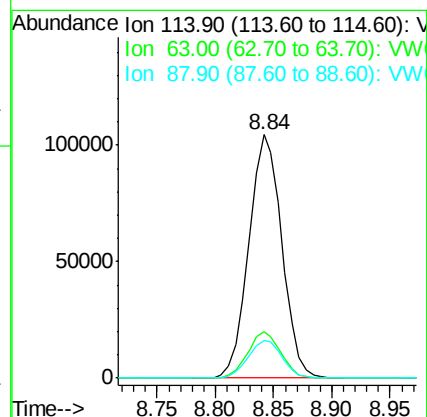
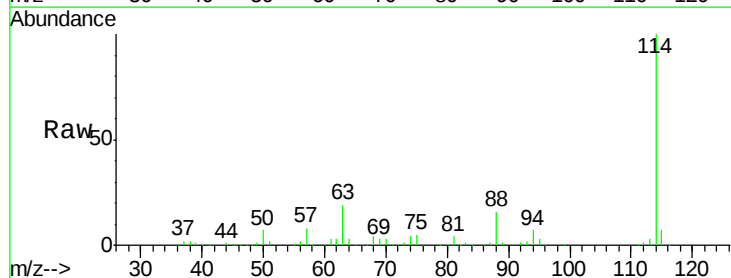
Tgt Ion: 114 Resp: 207204

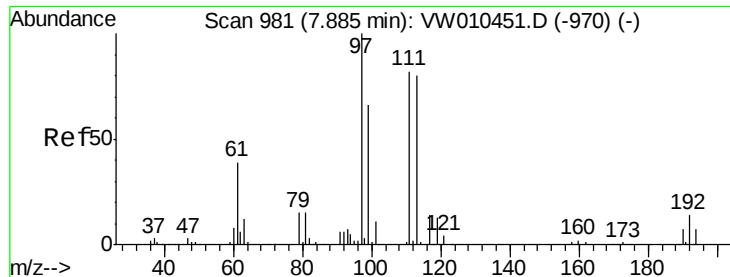
Ion Ratio Lower Upper

114 100

63 19.1 0.0 36.0

88 15.5 0.0 32.0

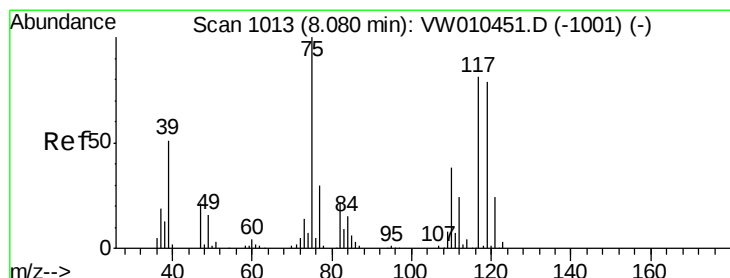
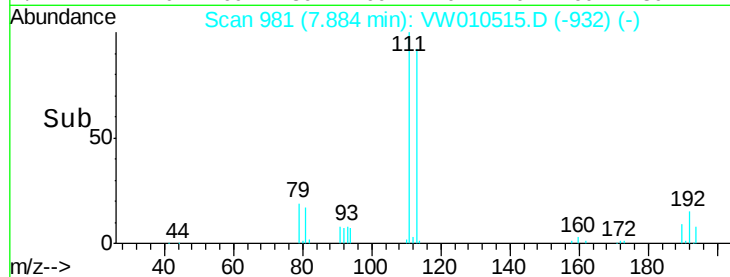
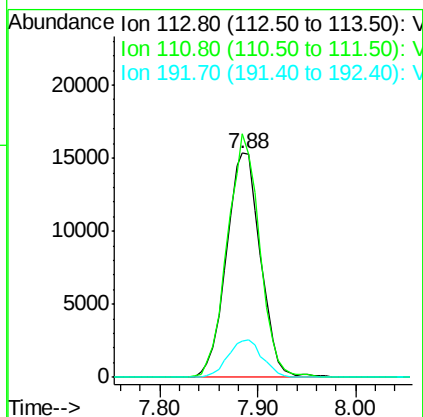
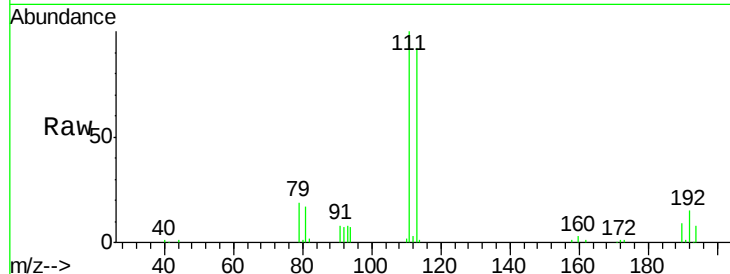




#35
 Dibromofluoromethane
 Concen: 29.484 ug/l
 RT: 7.88 min Scan# 981
 Delta R.T. -0.00 min
 Lab File: VW010515.D
 Acq: 22 May 2019 17:25

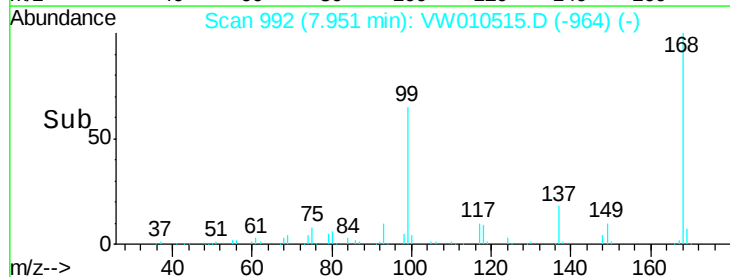
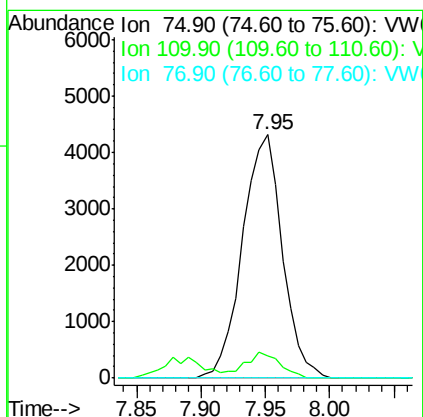
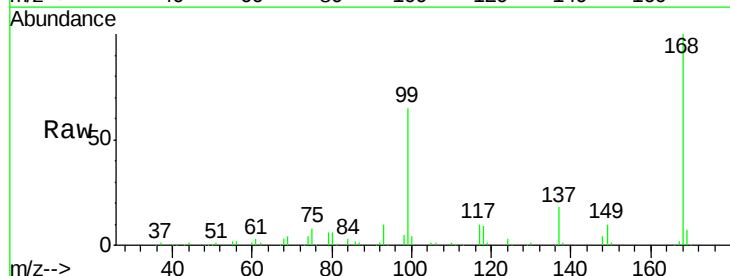
Instrument :
 MSVOA_W
 ClientSampleId :
 22-C6-20190413

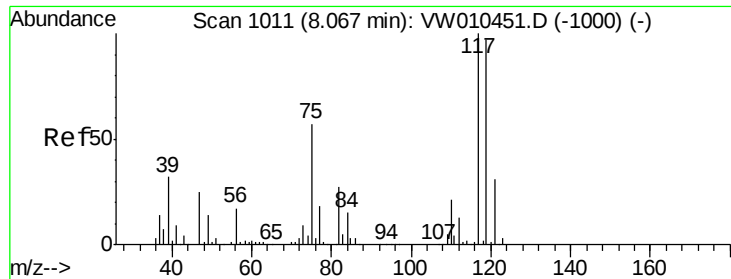
Tot Ion	Ratio	Lower	Upper
113	100		
111	102.7	82.2	123.4
192	16.6	14.3	21.5



#36
 1,1-Dichloropropene
 Concen: 4.789 ug/l
 RT: 7.95 min Scan# 992
 Delta R.T. -0.13 min
 Lab File: VW010515.D
 Acq: 22 May 2019 17:25

Tgt Ion	Ratio	Lower	Upper
75	100		
110	9.4	19.2	57.6#
77	0.0	25.2	37.8#

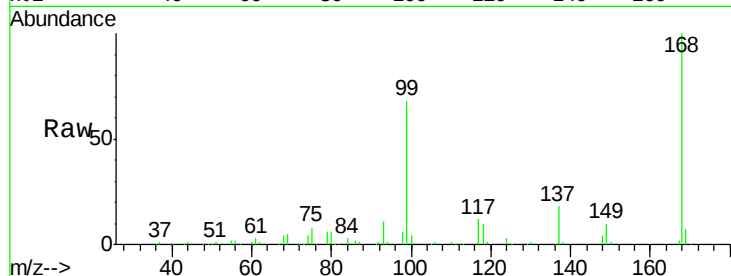




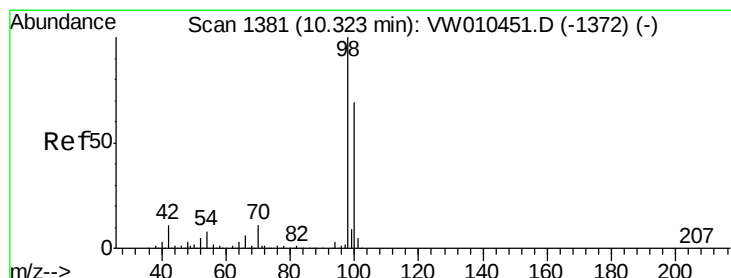
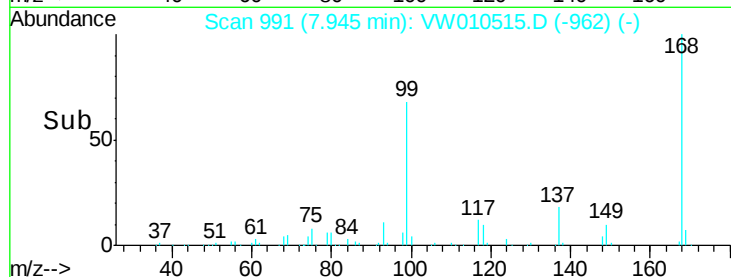
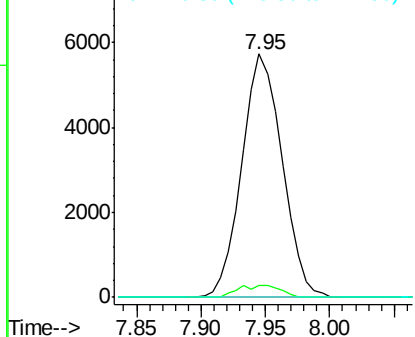
#38
Carbon Tetrachloride
Concen: 5.985 ug/l
RT: 7.95 min Scan# 991
Delta R.T. -0.12 min
Lab File: VW010515.D
Acq: 22 May 2019 17:25

Instrument :
MSVOA_W
ClientSampleId :
22-C6-20190413

Tot Ion:117 Resp: 12463
Ion Ratio Lower Upper
117 100
119 5.1 77.4 116.0#
121 0.0 25.0 37.6#

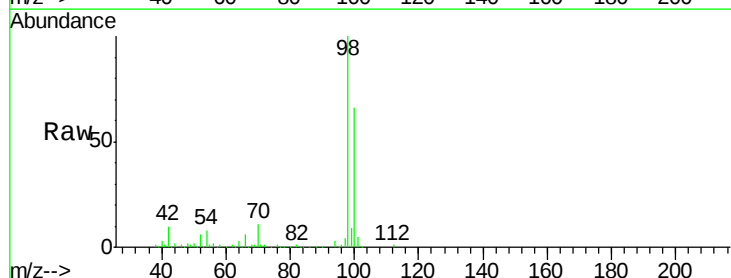


Abundance Ion 116.80 (116.50 to 117.50): V
Ion 118.80 (118.50 to 119.50): V
Ion 120.80 (120.50 to 121.50): V

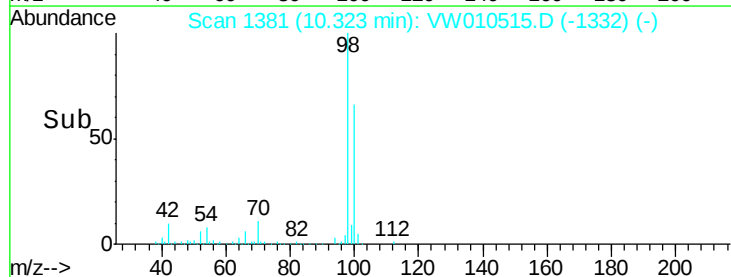
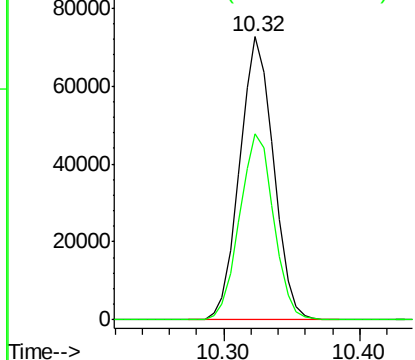


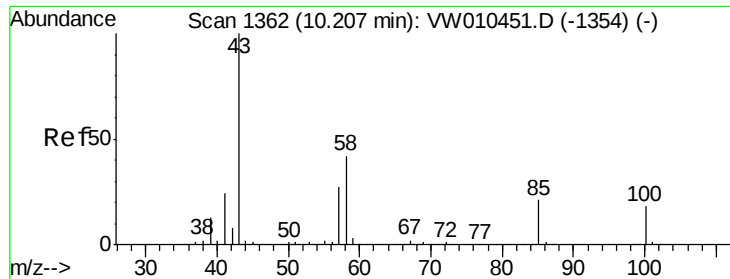
#50
Toluene-d8
Concen: 26.302 ug/l
RT: 10.32 min Scan# 1381
Delta R.T. -0.00 min
Lab File: VW010515.D
Acq: 22 May 2019 17:25

Tgt Ion: 98 Resp: 126330
Ion Ratio Lower Upper
98 100
100 66.2 53.7 80.5



Abundance Ion 98.00 (97.70 to 98.70): VW
Ion 100.00 (99.70 to 100.70): VW





#51

4-Methyl-2-Pentanone

Concen: 4.560 ug/l

RT: 10.21 min Scan# 1363

Delta R.T. 0.01 min

Lab File: VW010515.D

Acq: 22 May 2019 17:25

Instrument :

MSVOA_W

ClientSampleId :

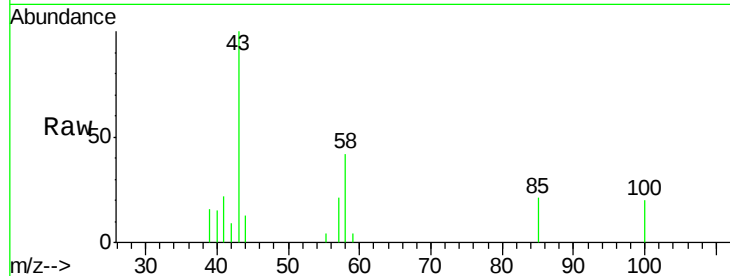
22-C6-20190413

Tot Ion: 43 Resp: 3789

Ion Ratio Lower Upper

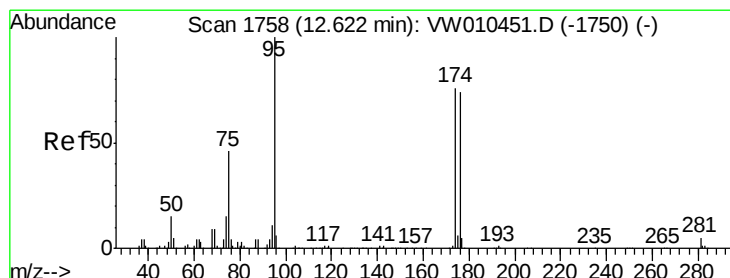
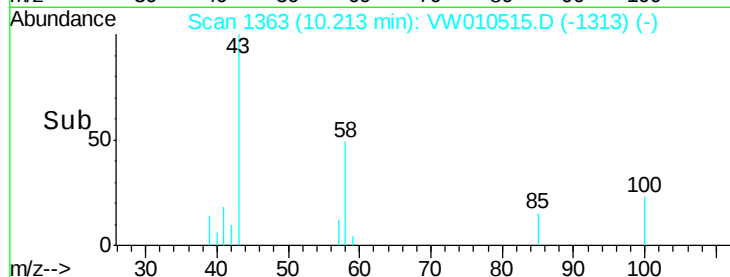
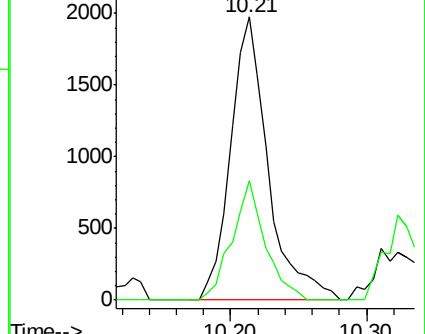
43 100

58 37.3 33.2 49.8



Abundance Ion 43.00 (42.70 to 43.70): VW

Ion 58.00 (57.70 to 58.70): VW



#62

4-Bromofluorobenzene

Concen: 22.705 ug/l

RT: 12.62 min Scan# 1758

Delta R.T. -0.00 min

Lab File: VW010515.D

Acq: 22 May 2019 17:25

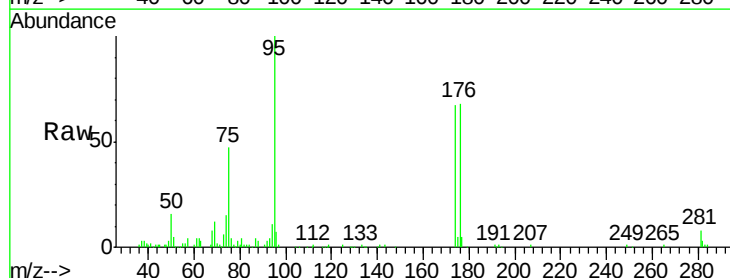
Tgt Ion: 95 Resp: 43437

Ion Ratio Lower Upper

95 100

174 67.9 0.0 148.6

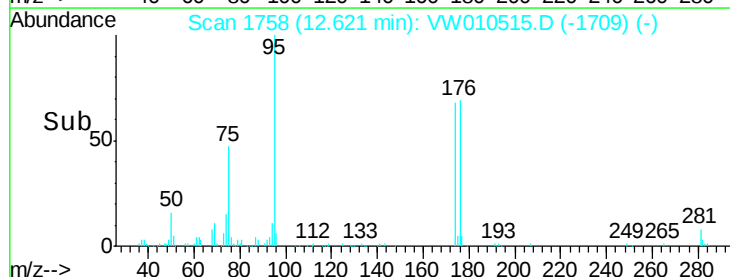
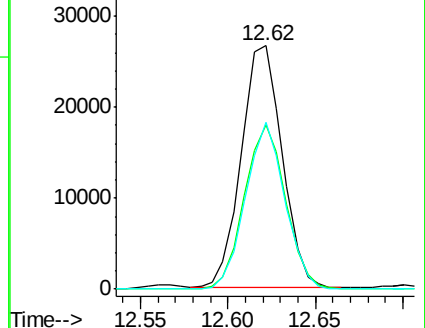
176 65.9 0.0 144.2

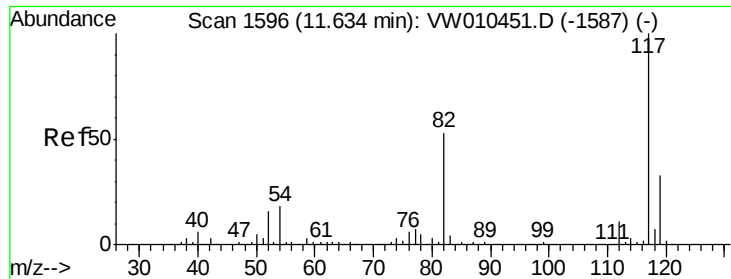


Abundance Ion 94.90 (94.60 to 95.60): VW

Ion 173.80 (173.50 to 174.50): V

Ion 175.80 (175.50 to 176.50): V

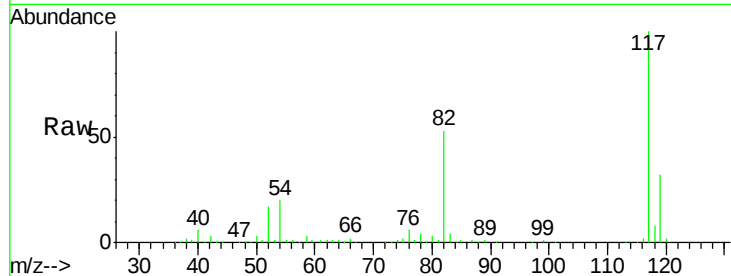




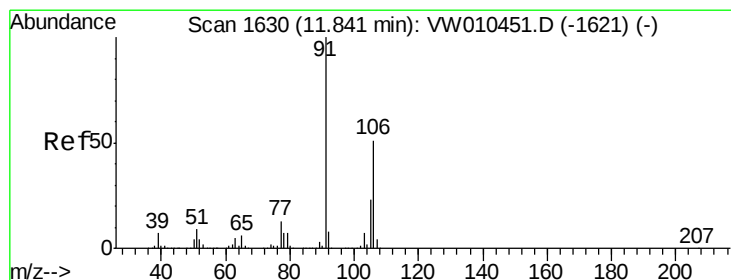
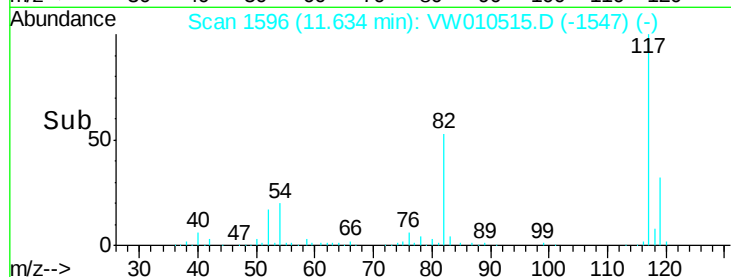
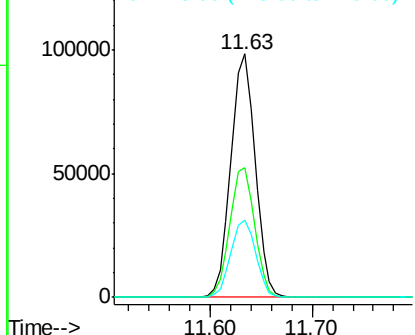
#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.63 min Scan# 1596
Delta R.T. -0.00 min
Lab File: VW010515.D
Acq: 22 May 2019 17:25

Instrument :
MSVOA_W
ClientSampleId :
22-C6-20190413

Tot Ion:117 Resp: 162090
Ion Ratio Lower Upper
117 100
82 53.2 42.8 64.2
119 32.0 26.3 39.5

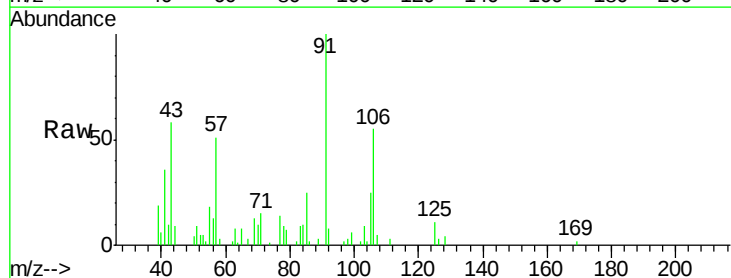


Abundance Ion 116.90 (116.60 to 117.60): V
Ion 82.00 (81.70 to 82.70): VW
Ion 118.90 (118.60 to 119.60): V

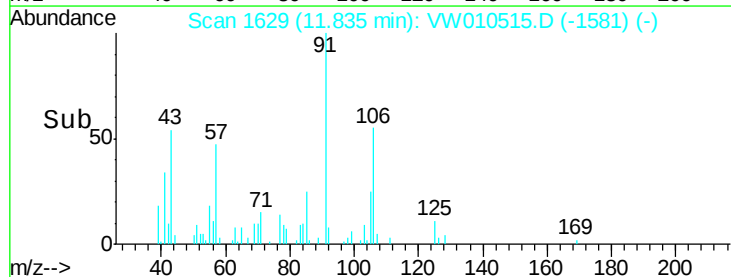
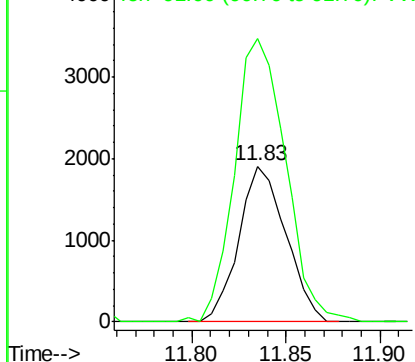


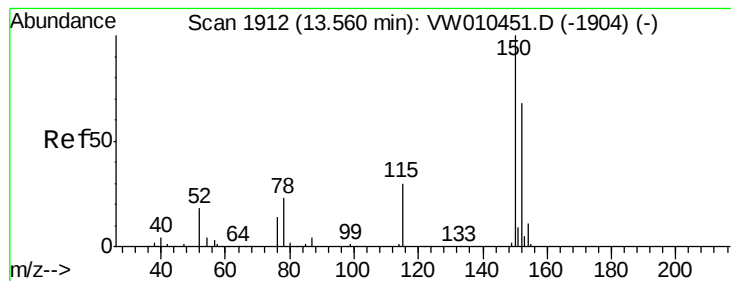
#68
m/p-Xylenes
Concen: 1.381 ug/l
RT: 11.83 min Scan# 1629
Delta R.T. -0.01 min
Lab File: VW010515.D
Acq: 22 May 2019 17:25

Tgt Ion:106 Resp: 3304
Ion Ratio Lower Upper
106 100
91 197.3 156.0 234.0



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





#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

RT: 13.56 min Scan# 1912

Delta R.T. -0.00 min

Lab File: VW010515.D

Acq: 22 May 2019 17:25

Instrument :

MSVOA_W

ClientSampleId :

22-C6-20190413

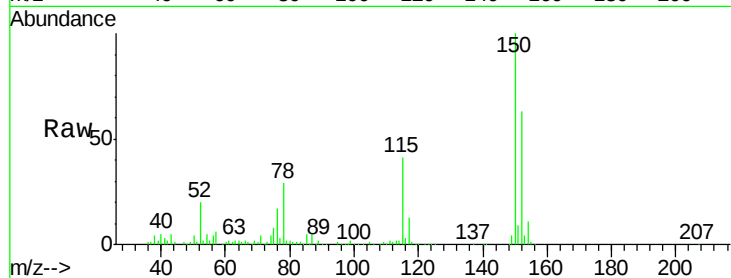
Tot Ion:152 Resp: 53274

Ion Ratio Lower Upper

152 100

115 66.7 30.3 91.0

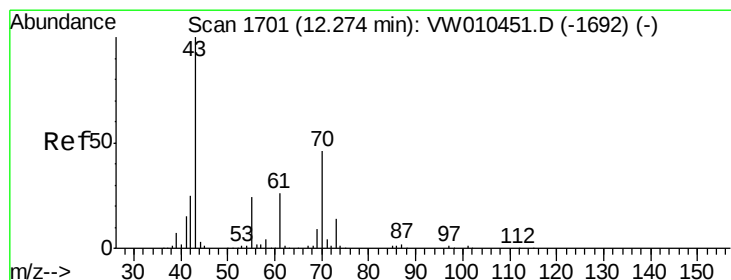
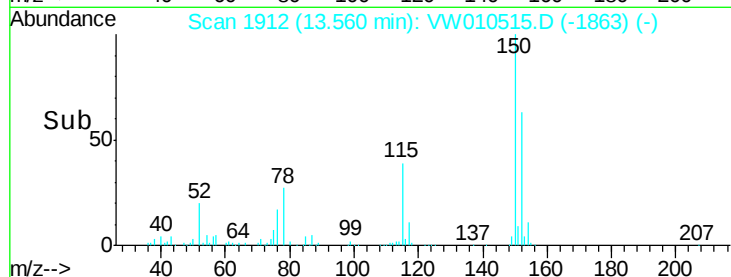
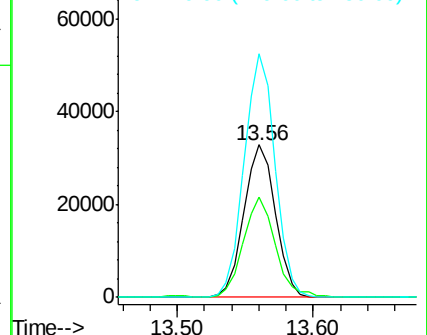
150 155.9 0.0 349.8



Abundance Ion 151.90 (151.60 to 152.60): V

Ion 114.90 (114.60 to 115.60): V

Ion 149.90 (149.60 to 150.60): V



#74

N-ethyl acetate

Concen: 2.281 ug/l

RT: 12.25 min Scan# 1697

Delta R.T. -0.02 min

Lab File: VW010515.D

Acq: 22 May 2019 17:25

Tgt Ion: 43 Resp: 2210

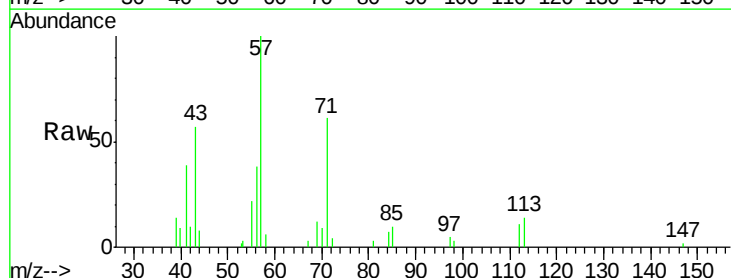
Ion Ratio Lower Upper

43 100

70 0.0 37.1 55.7#

55 0.0 19.6 29.4#

61 0.0 20.7 31.1#

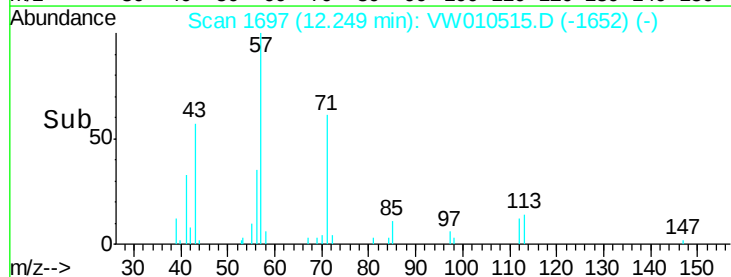
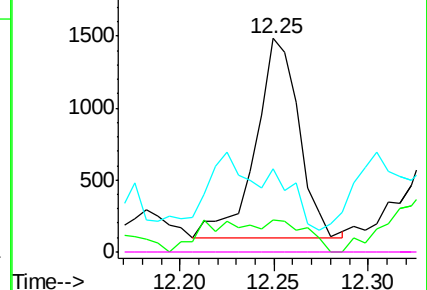


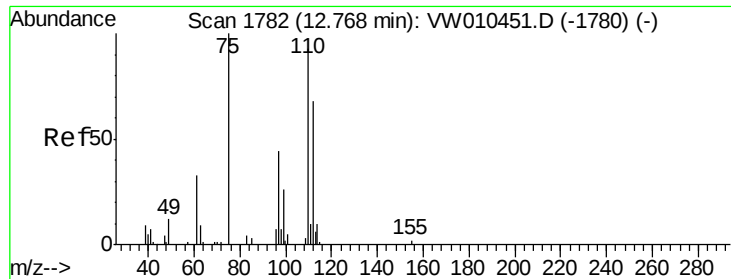
Abundance Ion 43.00 (42.70 to 43.70): VV

Ion 70.00 (69.70 to 70.70): VV

Ion 55.00 (54.70 to 55.70): VV

Ion 61.00 (60.70 to 61.70): VV





#76

1,2,3-Trichloropropane

Concen: 38.719 ug/l

RT: 12.62 min Scan# 1758

Delta R.T. -0.15 min

Lab File: VW010515.D

Acq: 22 May 2019 17:25

Instrument :

MSVOA_W

ClientSampleId :

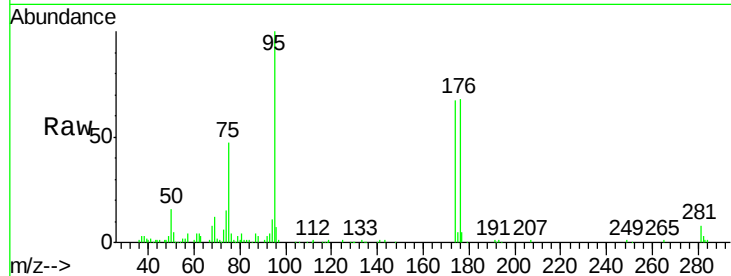
22-C6-20190413

Tot Ion: 75 Resp: 20938

Ion Ratio Lower Upper

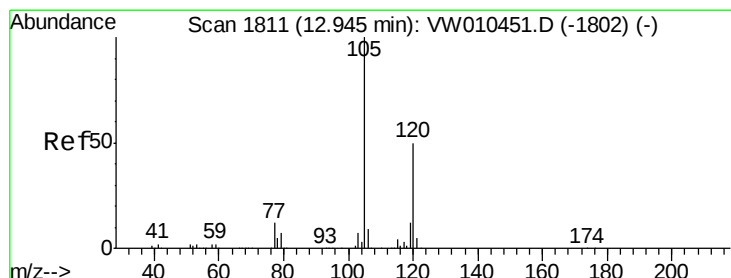
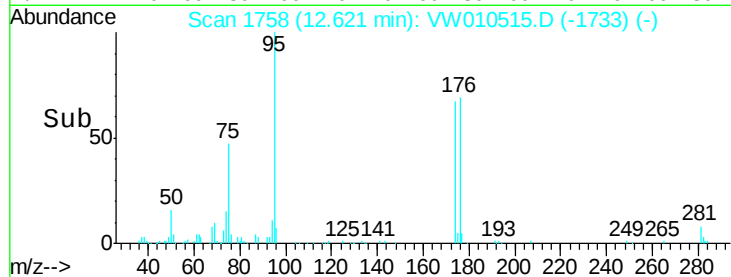
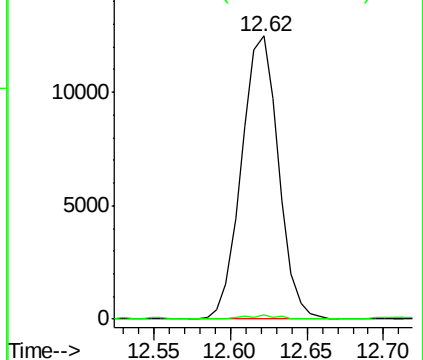
75 100

77 1.3 170.0 510.1#



Abundance Ion 74.90 (74.60 to 75.60): VW

Ion 77.00 (76.70 to 77.70): VW



#80

1,3,5-Trimethylbenzene

Concen: 4.579 ug/l

RT: 12.94 min Scan# 1811

Delta R.T. -0.00 min

Lab File: VW010515.D

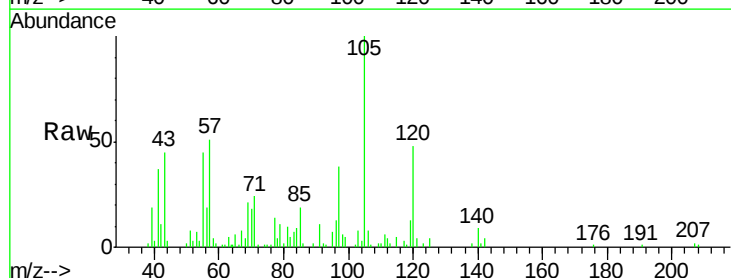
Acq: 22 May 2019 17:25

Tgt Ion: 105 Resp: 16395

Ion Ratio Lower Upper

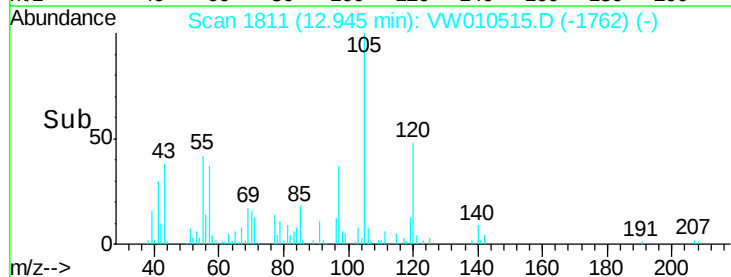
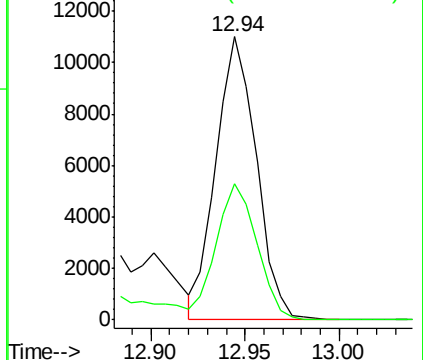
105 100

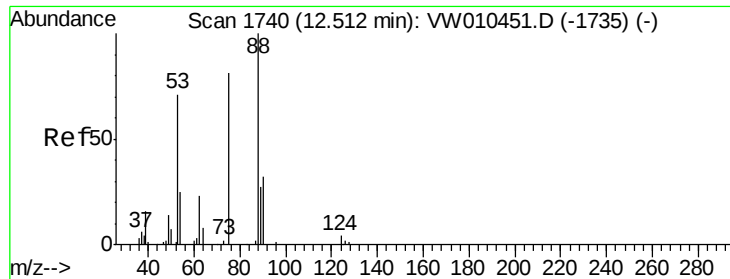
120 48.6 25.2 75.6



Abundance Ion 105.00 (104.70 to 105.70): V

Ion 120.00 (119.70 to 120.70): V





#81

trans-1,4-Dichloro-2-butene

Concen: 80.808 ug/l

RT: 12.62 min Scan# 1758

Delta R.T. 0.11 min

Lab File: VW010515.D

Acq: 22 May 2019 17:25

Instrument :

MSVOA_W

ClientSampleId :

22-C6-20190413

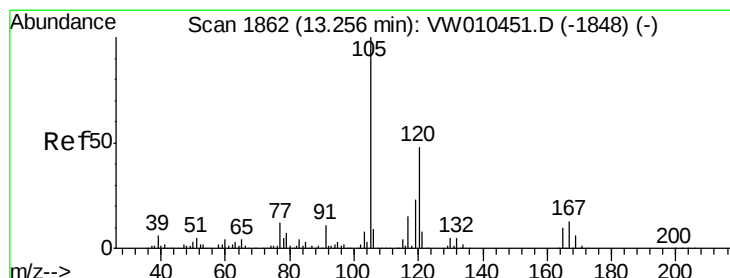
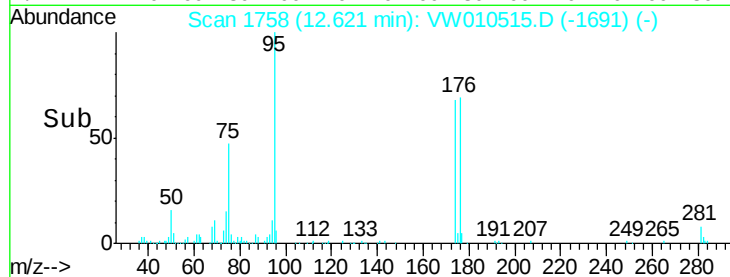
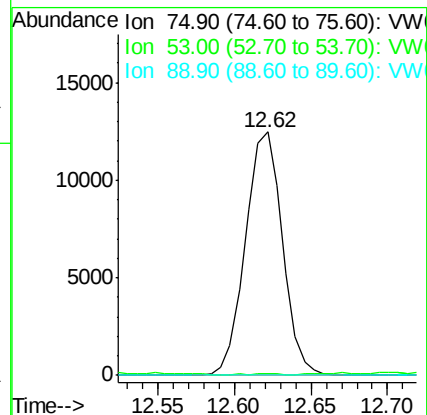
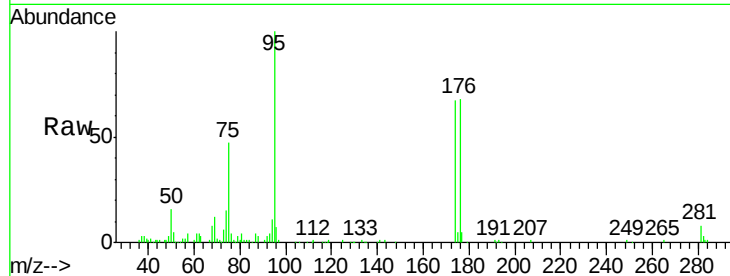
Tot Ion: 75 Resp: 20938

Ion Ratio Lower Upper

75 100

53 0.6 69.8 104.8#

89 0.0 39.5 59.3#



#84

1,2,4-Trimethylbenzene

Concen: 13.551 ug/l

RT: 13.26 min Scan# 1862

Delta R.T. -0.00 min

Lab File: VW010515.D

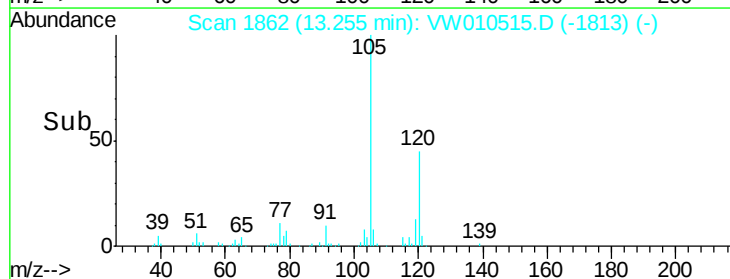
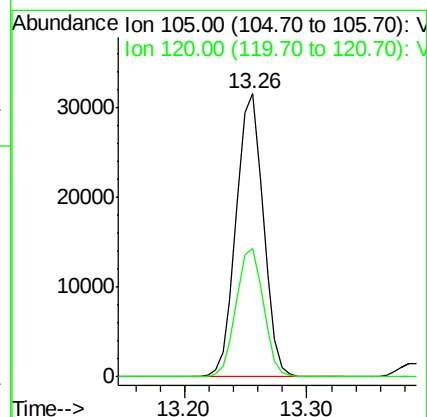
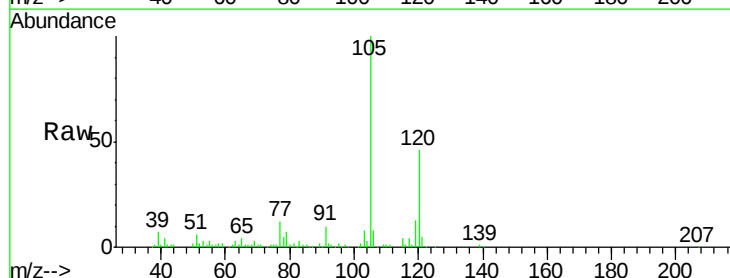
Acq: 22 May 2019 17:25

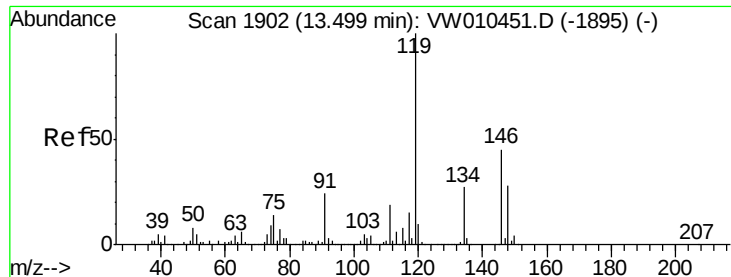
Tgt Ion: 105 Resp: 48324

Ion Ratio Lower Upper

105 100

120 45.5 23.4 70.2

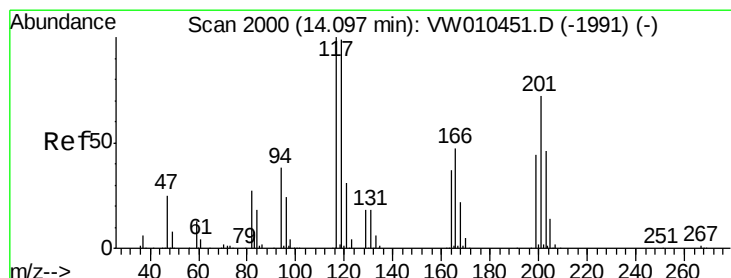
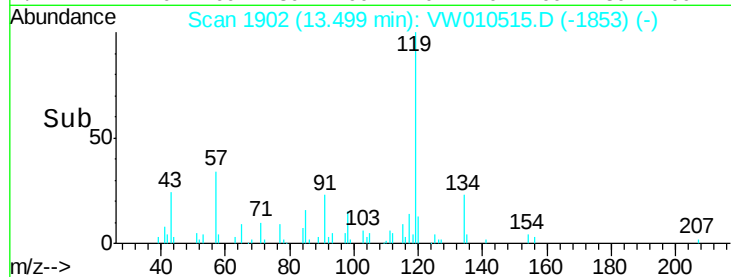
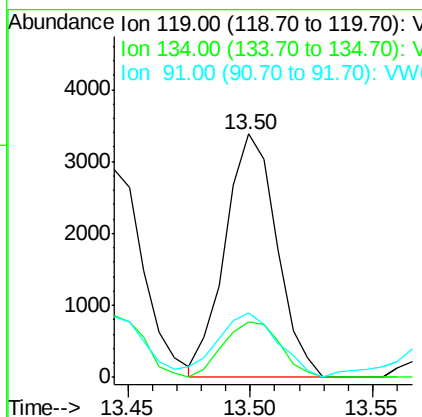
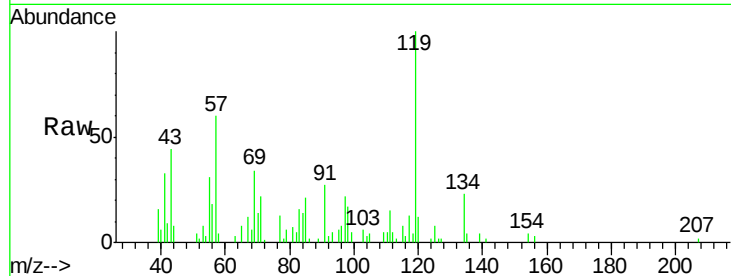




#86
 p-Isopropyltoluene
 Concen: 1.257 ug/l
 RT: 13.50 min Scan# 1902
 Delta R.T. -0.00 min
 Lab File: VW010515.D
 Acq: 22 May 2019 17:25

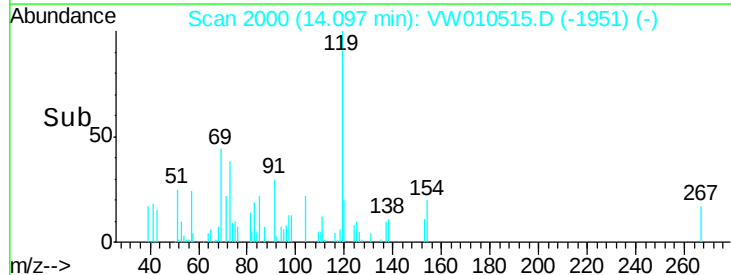
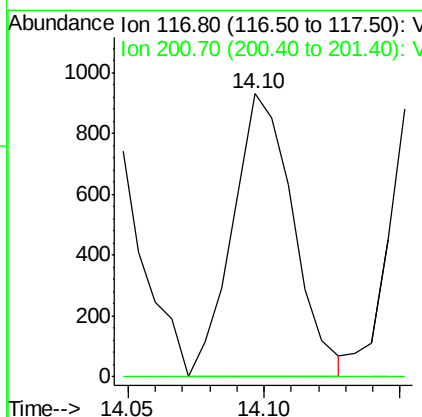
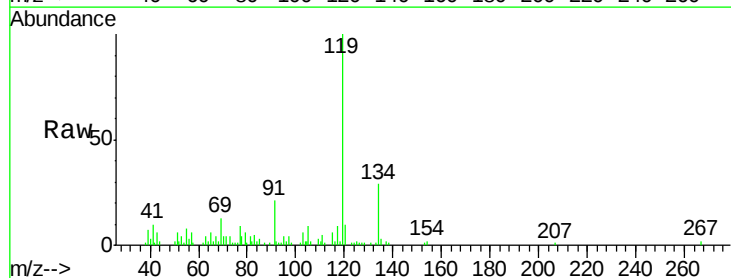
Instrument :
 MSVOA_W
 ClientSampleId :
 22-C6-20190413

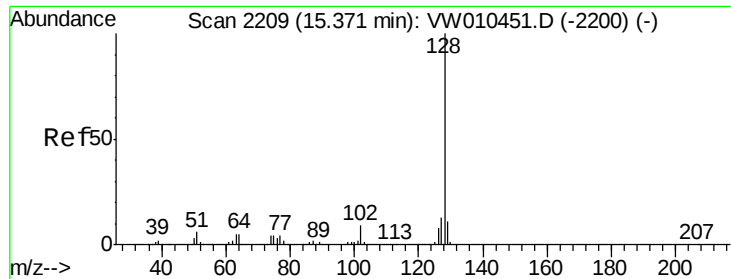
Tot Ion:119 Resp: 4979
 Ion Ratio Lower Upper
 119 100
 134 25.1 13.6 40.7
 91 31.4 11.9 35.7



#90
 Hexachloroethane
 Concen: 1.868 ug/l
 RT: 14.10 min Scan# 2000
 Delta R.T. -0.00 min
 Lab File: VW010515.D
 Acq: 22 May 2019 17:25

Tgt Ion:117 Resp: 1432
 Ion Ratio Lower Upper
 117 100
 201 0.0 34.6 103.8#





#95
Naphthalene
Concen: 4.956 ug/l
RT: 15.37 min Scan# 2209
Delta R.T. -0.00 min
Lab File: VW010515.D
Acq: 22 May 2019 17:25

Instrument :
MSVOA_W
ClientSampleId :
22-C6-20190413

Tot Ion	Ratio	Lower	Upper
128	100		
127	14.5	10.6	15.8
129	12.0	8.9	13.3

