

Data Path : Z:\VOASRV\HPCHEM1\MSVOA W\DATA\VW052819\
 Data File : VW010573.D
 Acq On : 28 May 2019 17:56
 Operator : SY/VA
 Sample : K3065-05
 Misc : 5.06G/5ML/MSVOA W/SOIL
 ALS Vial : 15 Sample Multiplier: 1

Instrument :
 MSVOA_W
 ClientSampleId :
 B-14-15-2.0

Quant Time: May 29 07:03:05 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	60729	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	8.84	114	101907	50.00	ug/l	0.00
63) Chlorobenzene-d5	11.63	117	89161	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.56	152	40337	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	31779	50.70	ug/l	0.00
Spiked Amount			Recovery	=	101.40%	
35) Dibromofluoromethane	7.88	113	28616	46.28	ug/l	0.00
Spiked Amount			Recovery	=	92.56%	
50) Toluene-d8	10.32	98	123222	52.16	ug/l	0.00
Spiked Amount			Recovery	=	104.32%	
62) 4-Bromofluorobenzene	12.62	95	45958	48.84	ug/l	0.00
Spiked Amount			Recovery	=	97.68%	

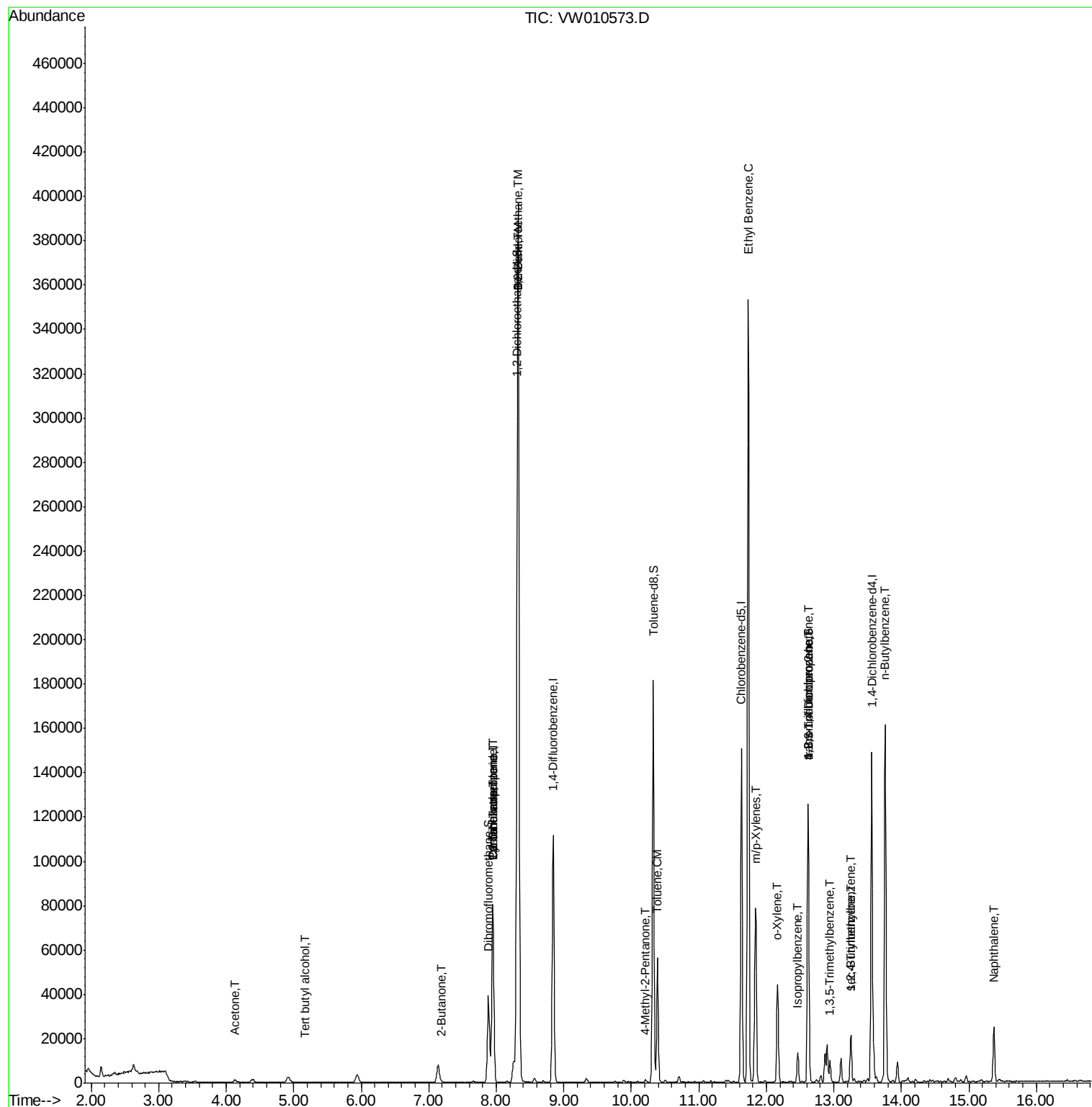
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
2) Dichlorodifluoromethane	2.00	85	22	Below Cal	#	42
11) Tert butyl alcohol	5.17	59	74	1.312	ug/l #	71
16) Acetone	4.13	43	2196	17.163	ug/l	93
20) Methylene Chloride	4.90	84	879	Below Cal	#	84
25) 2-Butanone	7.19	43	289	1.578	ug/l #	45
31) Cyclohexane	7.95	56	1370	1.151	ug/l #	1
36) 1,1-Dichloropropene	7.95	75	4458	4.696	ug/l #	49
38) Carbon Tetrachloride	7.95	117	6301	6.153	ug/l #	15
40) Benzene	8.32	78	401819	152.287	ug/l	100
42) 1,2-Dichloroethane	8.32	62	3205	4.250	ug/l #	72
51) 4-Methyl-2-Pentanone	10.21	43	945	2.312	ug/l #	86
52) Toluene	10.39	92	24848	14.023	ug/l	99
67) Ethyl Benzene	11.73	91	255239	76.079	ug/l	99
68) m/p-Xylenes	11.84	106	27090	20.587	ug/l	99
69) o-Xylene	12.17	106	12684	10.174	ug/l	98
73) Isopropylbenzene	12.46	105	8211	2.565	ug/l	98
76) 1,2,3-Trichloropropane	12.62	75	21018	51.333	ug/l #	1
80) 1,3,5-Trimethylbenzene	12.94	105	4844	1.787	ug/l	97
81) trans-1,4-Dichloro-2-buten	12.62	75	21018	107.133	ug/l #	14
84) 1,2,4-Trimethylbenzene	13.26	105	11993	4.442	ug/l	99
85) sec-Butylbenzene	13.26	105	11993	3.619	ug/l #	55
89) n-Butylbenzene	13.76	91	13480	4.725	ug/l #	40
95) Naphthalene	15.37	128	22538	12.324	ug/l	98

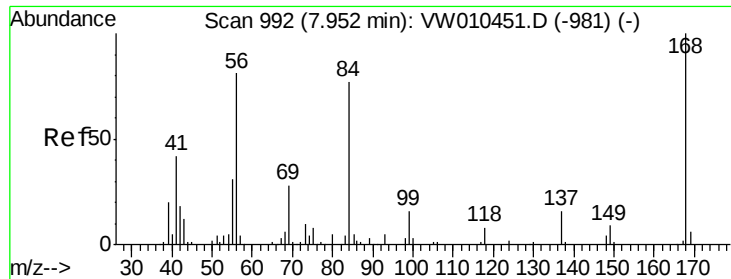
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\V0ASRV\HPCHEM1\MSVOA W\DATA\VW052819\
Data File : VW010573.D
Acq On : 28 May 2019 17:56
Operator : SY/VA
Sample : K3065-05
Misc : 5.06G/5ML/MSVOA W/SOIL
ALS Vial : 15 Sample Multiplier: 1

Instrument :
MSVOA_W
ClientSampleId :
B-14-1.5-2.0

Quant Time: May 29 07:03:05 2019
Quant Method : Z:\V0ASRV\HPCHEM1\MSVOA_W\METHOD\82W052019S.M
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: VW010573.D

Acq: 28 May 2019 17:56

Instrument :

MSVOA_W

ClientSampleId :

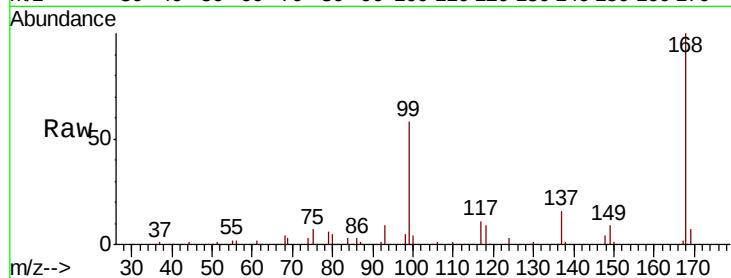
B-14-1.5-2.0

Tot Ion:168 Resp: 60729

Ion Ratio Lower Upper

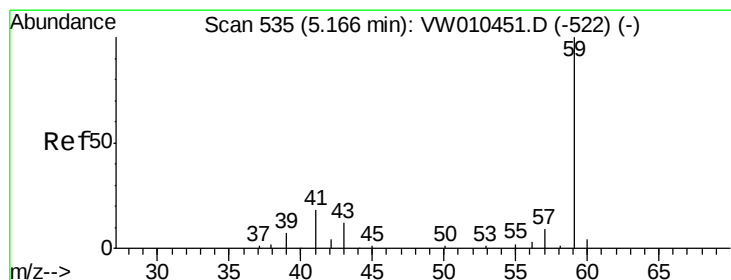
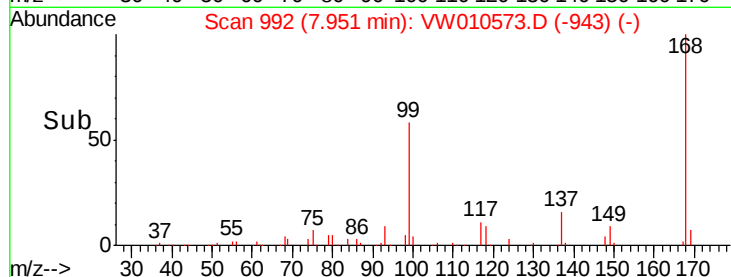
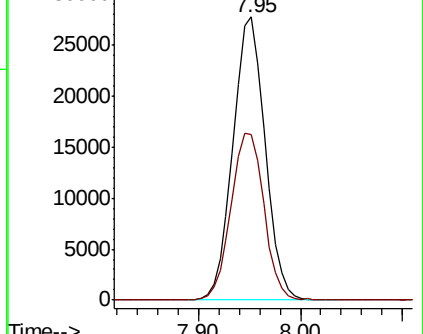
168 100

99 58.3 46.1 69.1



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VW



#11

Tert butyl alcohol

Concen: 1.312 ug/l

RT: 5.17 min Scan# 536

Delta R.T. 0.01 min

Lab File: VW010573.D

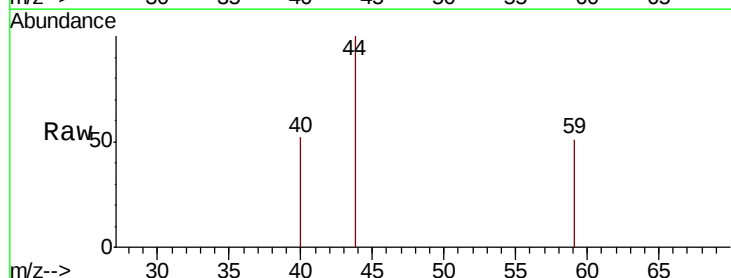
Acq: 28 May 2019 17:56

Tgt Ion: 59 Resp: 74

Ion Ratio Lower Upper

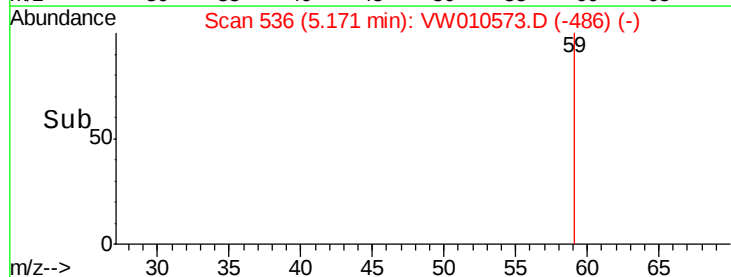
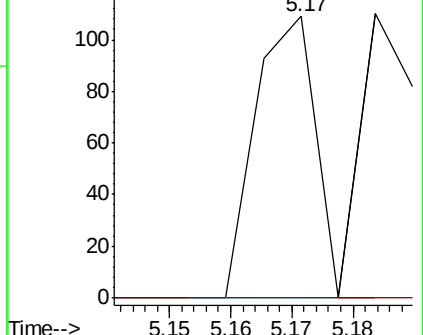
59 100

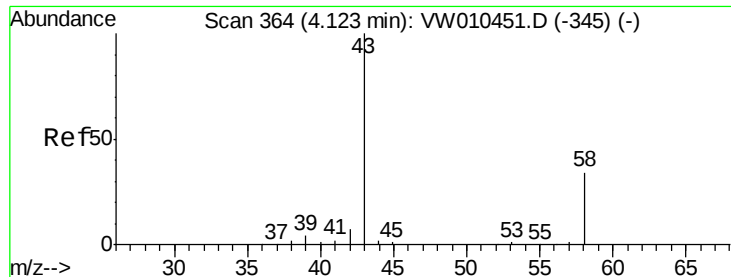
57 0.0 8.8 13.2#



Abundance Ion 59.00 (58.70 to 59.70): VW

Ion 57.00 (56.70 to 57.70): VW





#16

Acetone

Concen: 17.163 ug/l

RT: 4.13 min Scan# 365

Delta R.T. 0.01 min

Lab File: VW010573.D

Acq: 28 May 2019 17:56

Instrument :

MSVOA_W

ClientSampleId :

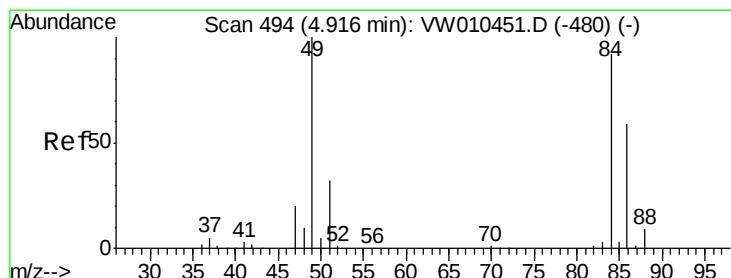
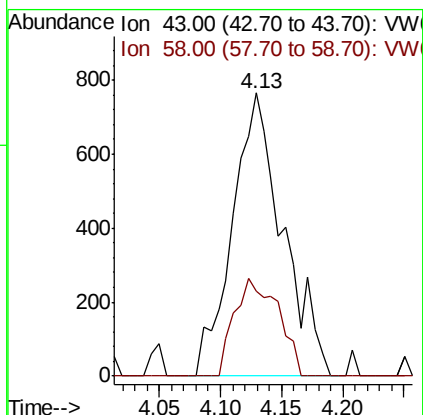
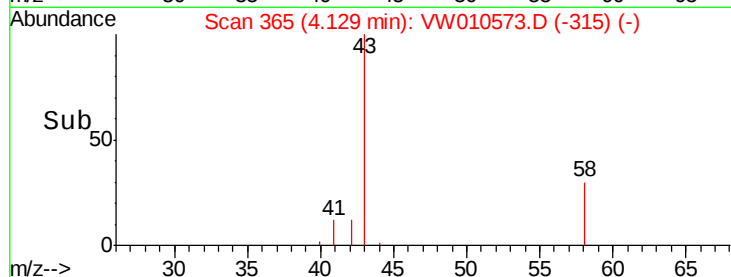
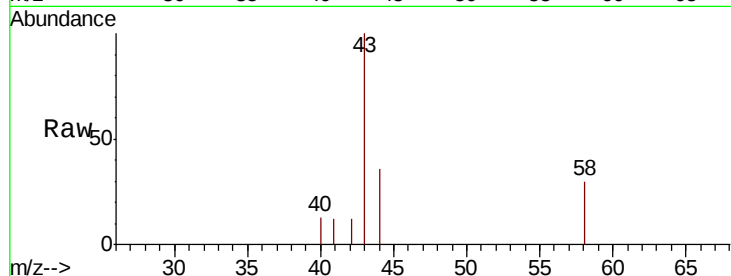
B-14-1.5-2.0

Tot Ion: 43 Resp: 2196

Ion Ratio Lower Upper

43 100

58 29.9 27.0 40.4



#20

Methylene Chloride

Concen: Below Cal

RT: 4.90 min Scan# 492

Delta R.T. -0.01 min

Lab File: VW010573.D

Acq: 28 May 2019 17:56

Tgt Ion: 84 Resp: 879

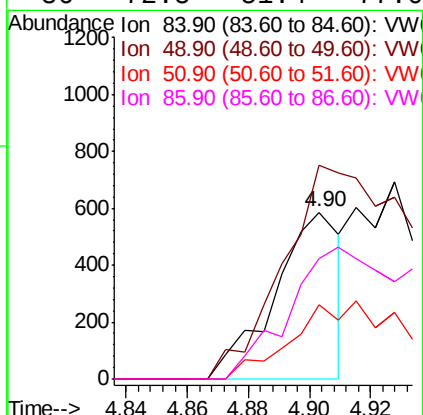
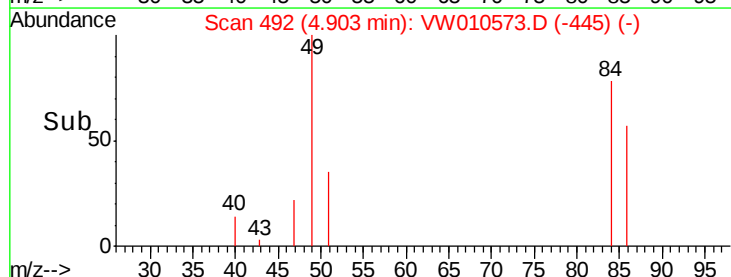
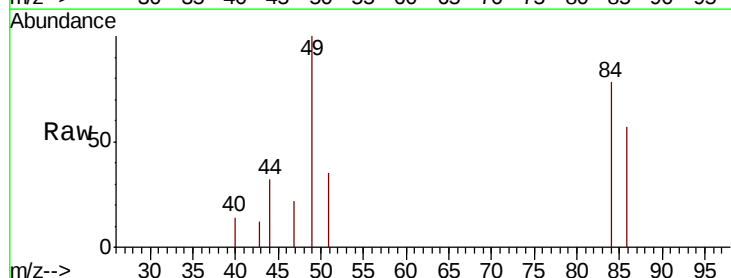
Ion Ratio Lower Upper

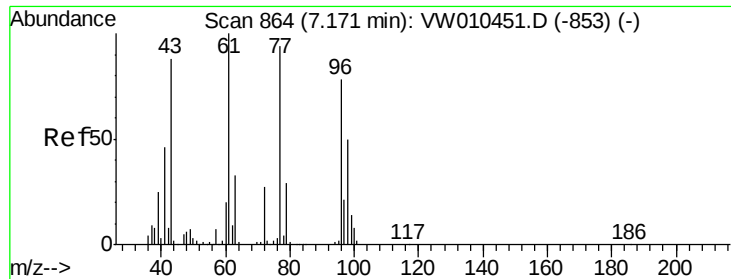
84 100

49 128.2 87.2 130.8

51 44.4 27.7 41.5#

86 72.5 51.4 77.0





#25

2-Butanone

Concen: 1.578 ug/l

RT: 7.19 min Scan# 867

Delta R.T. 0.02 min

Lab File: VW010573.D

Acq: 28 May 2019 17:56

Instrument :

MSVOA_W

ClientSampleId :

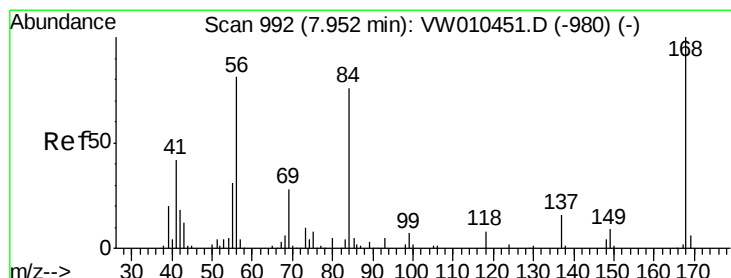
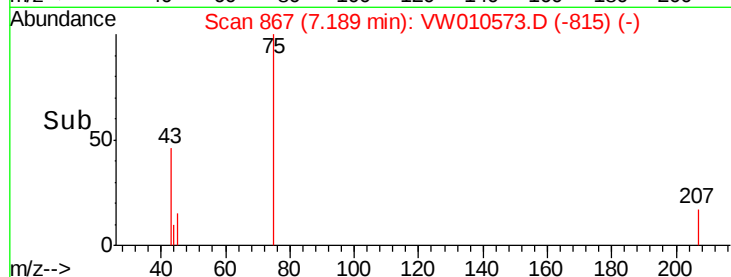
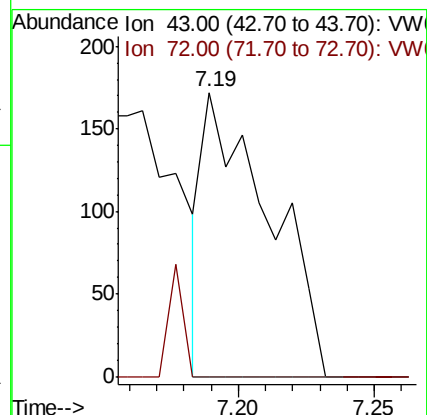
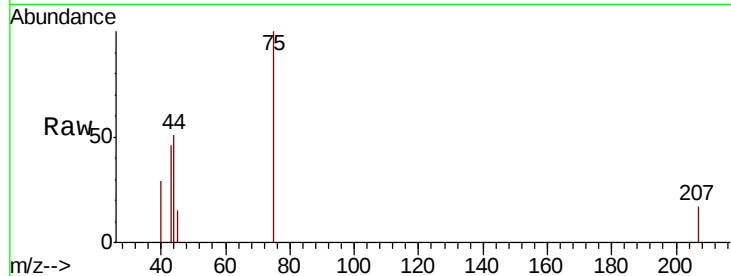
B-14-1.5-2.0

Tot Ion: 43 Resp: 289

Ion Ratio Lower Upper

43 100

72 0.0 24.1 36.1#



#31

Cyclohexane

Concen: 1.151 ug/l

RT: 7.95 min Scan# 991

Delta R.T. -0.01 min

Lab File: VW010573.D

Acq: 28 May 2019 17:56

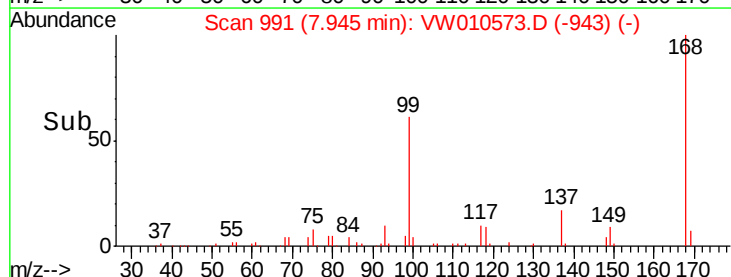
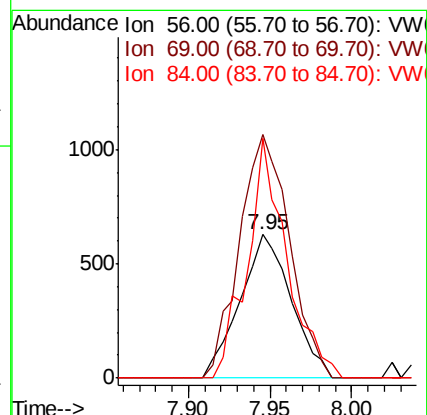
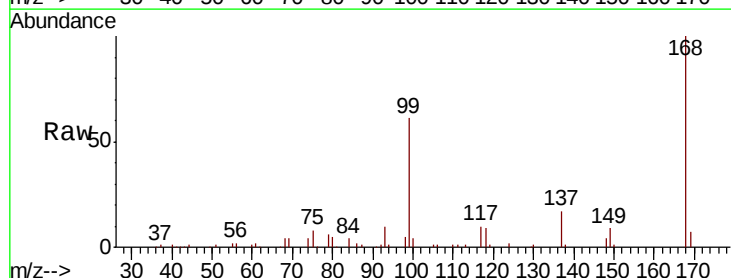
Tgt Ion: 56 Resp: 1370

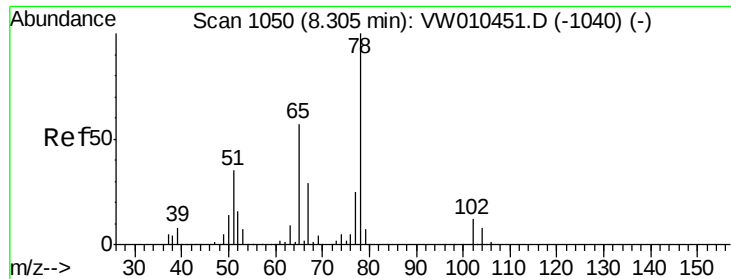
Ion Ratio Lower Upper

56 100

69 169.7 28.2 42.2#

84 167.5 75.8 113.8#





#33

1,2-Dichloroethane-d4

Concen: 50.698 ug/l

RT: 8.31 min Scan# 1050

Delta R.T. -0.00 min

Lab File: VW010573.D

Acq: 28 May 2019 17:56

Instrument :

MSVOA_W

ClientSampleId :

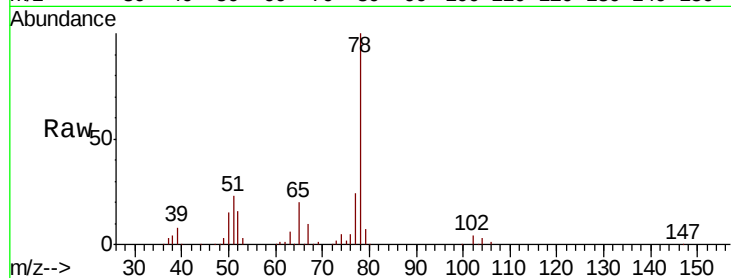
B-14-1.5-2.0

Tot Ion: 65 Resp: 31779

Ion Ratio Lower Upper

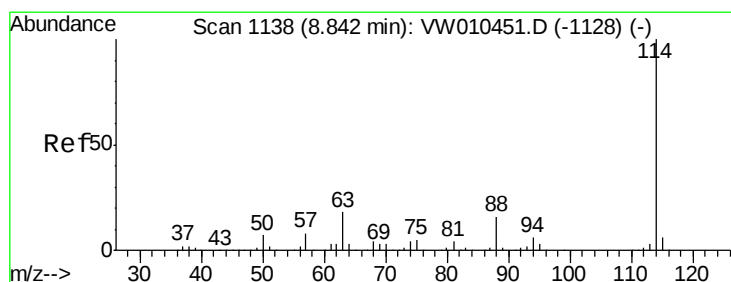
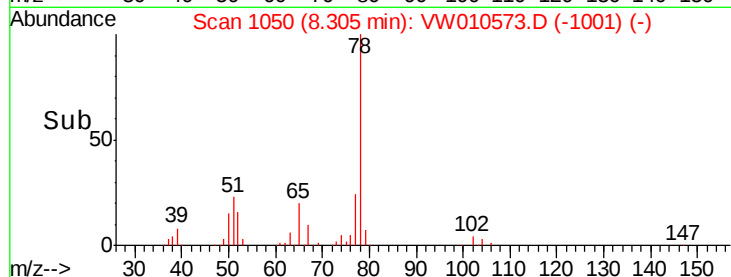
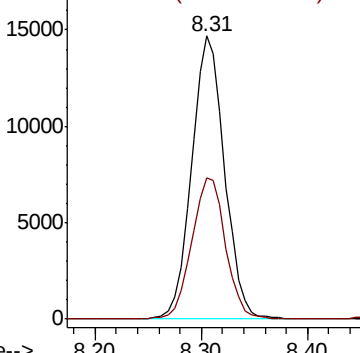
65 100

67 51.3 0.0 103.6



Abundance Ion 64.90 (64.60 to 65.60): VW

Ion 66.90 (66.60 to 67.60): VW



#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 8.84 min Scan# 1138

Delta R.T. -0.00 min

Lab File: VW010573.D

Acq: 28 May 2019 17:56

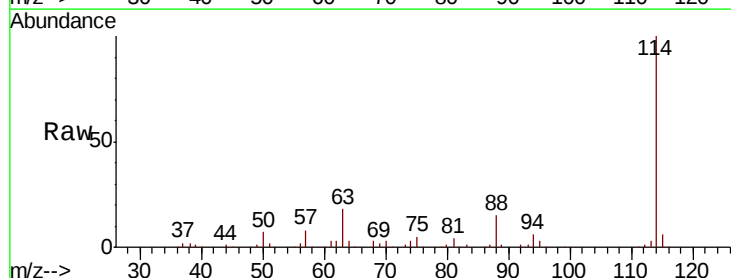
Tgt Ion: 114 Resp: 101907

Ion Ratio Lower Upper

114 100

63 18.1 0.0 36.0

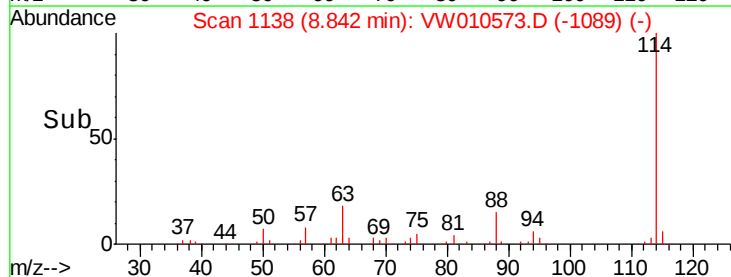
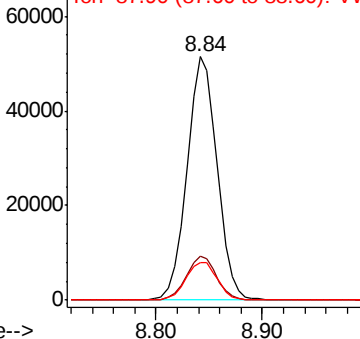
88 15.4 0.0 32.0

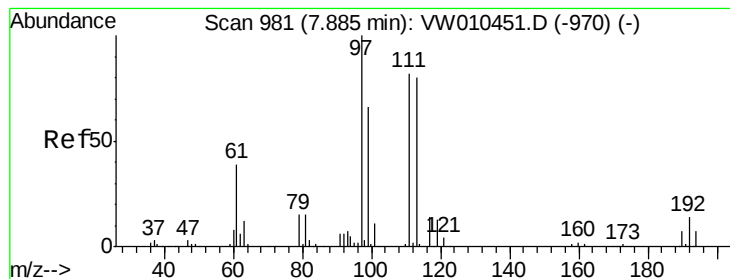


Abundance Ion 113.90 (113.60 to 114.60): V

Ion 63.00 (62.70 to 63.70): VW

Ion 87.90 (87.60 to 88.60): VW





#35

Dibromofluoromethane

Concen: 46.278 ug/l

RT: 7.88 min Scan# 981

Delta R.T. -0.00 min

Lab File: VW010573.D

Acq: 28 May 2019 17:56

Instrument :

MSVOA_W

ClientSampleId :

B-14-1.5-2.0

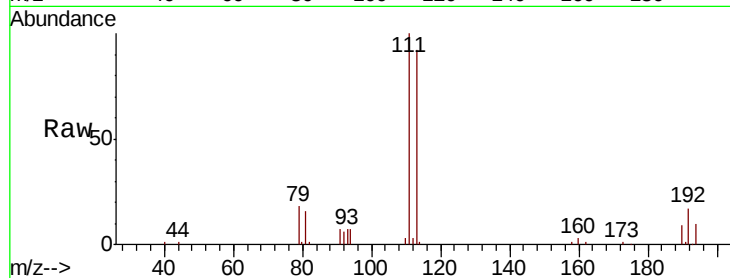
Tot Ion:113 Resp: 28616

Ion Ratio Lower Upper

113 100

111 104.1 82.2 123.4

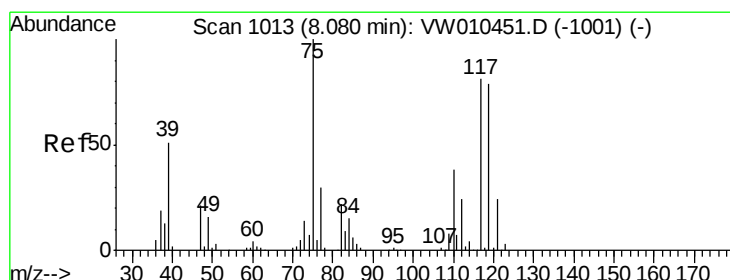
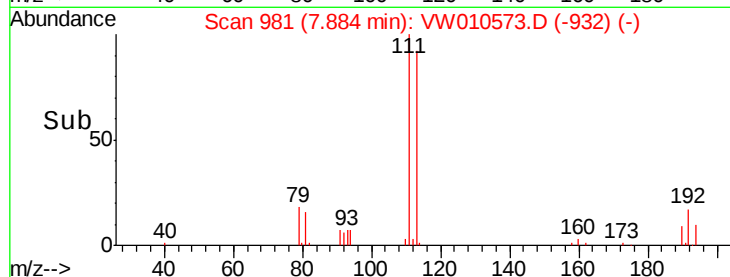
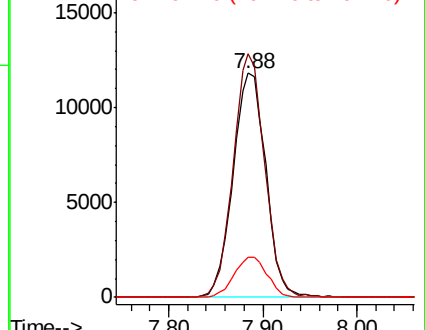
192 17.9 14.3 21.5



Abundance Ion 112.80 (112.50 to 113.50): V

Ion 110.80 (110.50 to 111.50): V

Ion 191.70 (191.40 to 192.40): V



#36

1,1-Dichloropropene

Concen: 4.696 ug/l

RT: 7.95 min Scan# 991

Delta R.T. -0.13 min

Lab File: VW010573.D

Acq: 28 May 2019 17:56

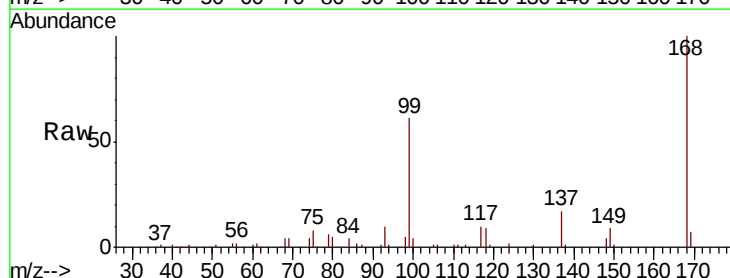
Tgt Ion: 75 Resp: 4458

Ion Ratio Lower Upper

75 100

110 10.2 19.2 57.6#

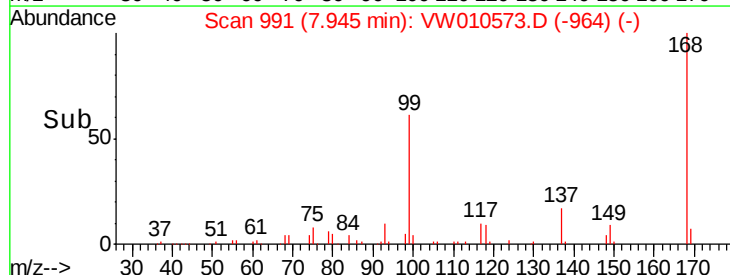
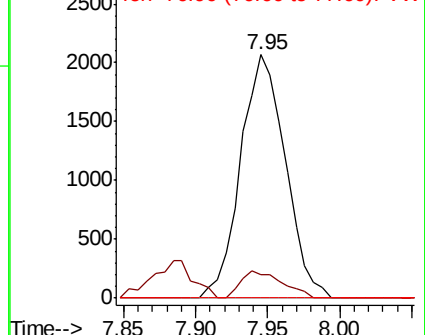
77 0.0 25.2 37.8#

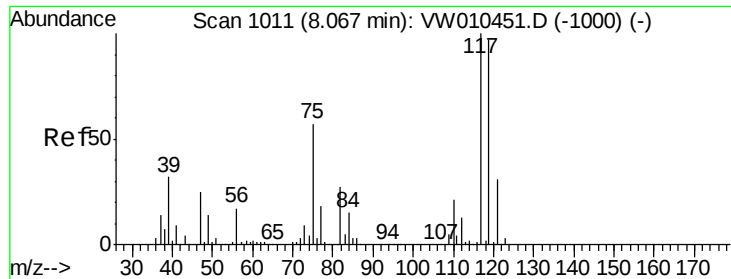


Abundance Ion 74.90 (74.60 to 75.60): VW

Ion 109.90 (109.60 to 110.60): V

Ion 76.90 (76.60 to 77.60): VW

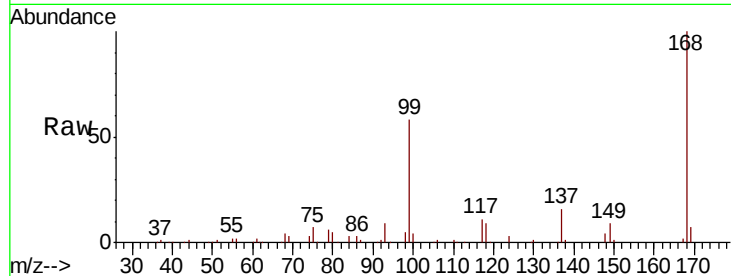




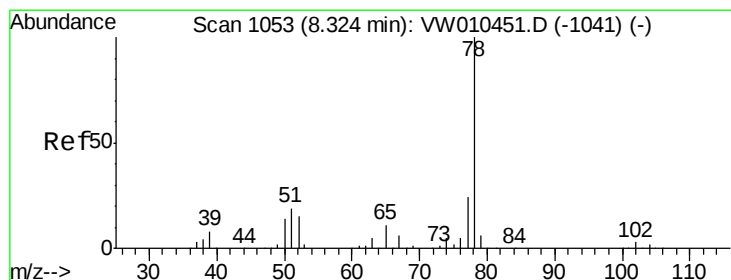
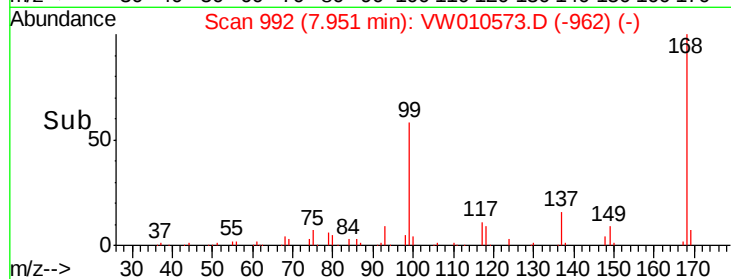
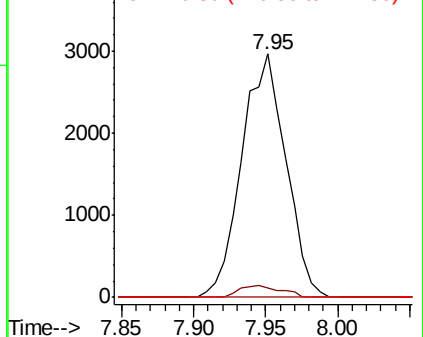
#38
Carbon Tetrachloride
Concen: 6.153 ug/l
RT: 7.95 min Scan# 992
Delta R.T. -0.12 min
Lab File: VW010573.D
Acq: 28 May 2019 17:56

Instrument :
MSVOA_W
ClientSampleId :
B-14-1.5-2.0

Tot Ion:117 Resp: 6301
Ion Ratio Lower Upper
117 100
119 4.0 77.4 116.0#
121 0.0 25.0 37.6#

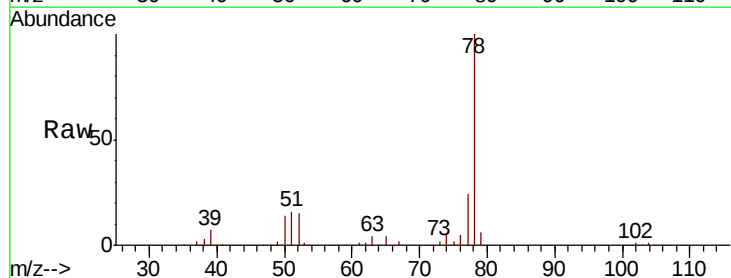


Abundance Ion 116.80 (116.50 to 117.50): V
Ion 118.80 (118.50 to 119.50): V
Ion 120.80 (120.50 to 121.50): V

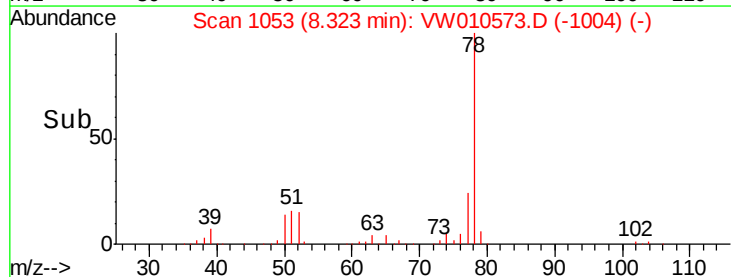
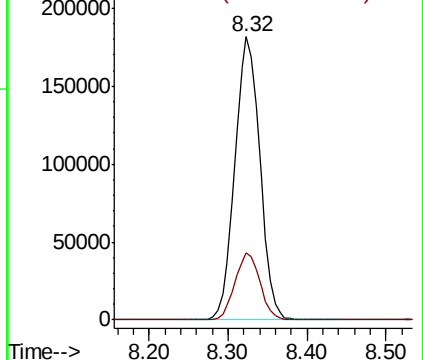


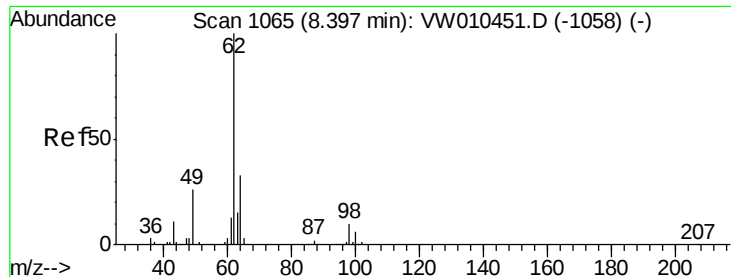
#40
Benzene
Concen: 152.287 ug/l
RT: 8.32 min Scan# 1053
Delta R.T. -0.00 min
Lab File: VW010573.D
Acq: 28 May 2019 17:56

Tgt Ion: 78 Resp: 401819
Ion Ratio Lower Upper
78 100
77 23.5 18.9 28.3



Abundance Ion 78.00 (77.70 to 78.70): VW
Ion 77.00 (76.70 to 77.70): VW





#42

1,2-Dichloroethane

Concen: 4.250 ug/l

RT: 8.32 min Scan# 1053

Delta R.T. -0.07 min

Lab File: VW010573.D

Acq: 28 May 2019 17:56

Instrument :

MSVOA_W

ClientSampleId :

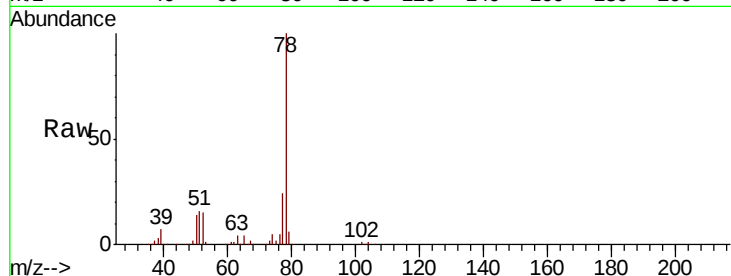
B-14-1.5-2.0

Tot Ion: 62 Resp: 3205

Ion Ratio Lower Upper

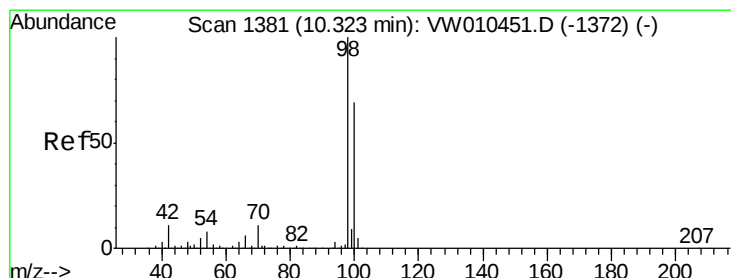
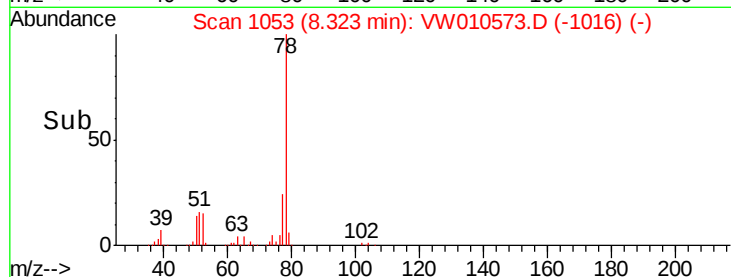
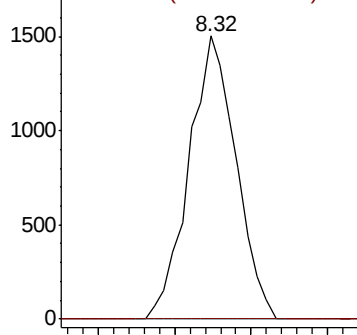
62 100

98 0.0 0.0 21.0



Abundance Ion 61.90 (61.60 to 62.60): VW

Ion 97.90 (97.60 to 98.60): VW



#50

Toluene-d8

Concen: 52.163 ug/l

RT: 10.32 min Scan# 1381

Delta R.T. -0.00 min

Lab File: VW010573.D

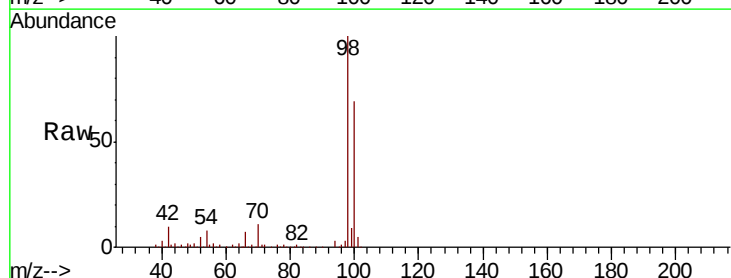
Acq: 28 May 2019 17:56

Tgt Ion: 98 Resp: 123222

Ion Ratio Lower Upper

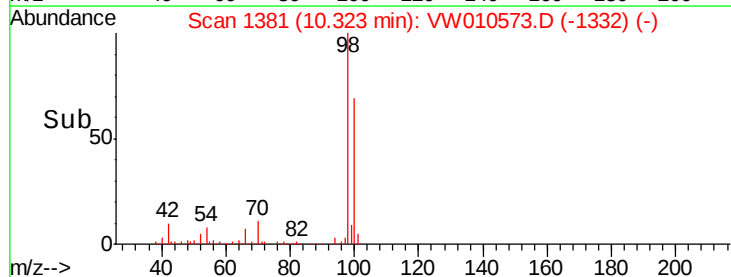
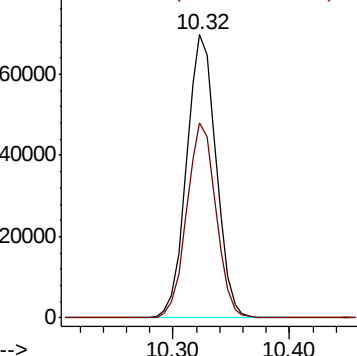
98 100

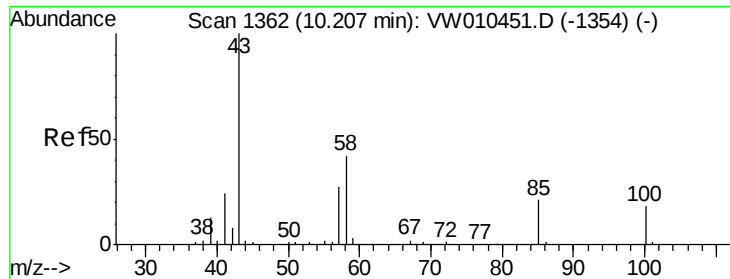
100 68.3 53.7 80.5



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: 2.312 ug/l

RT: 10.21 min Scan# 1363

Delta R.T. 0.01 min

Lab File: VW010573.D

Acq: 28 May 2019 17:56

Instrument :

MSVOA_W

ClientSampled :

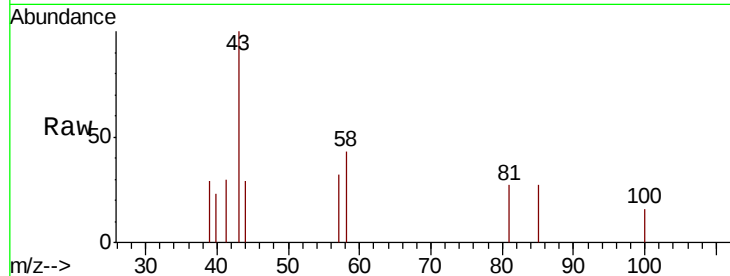
B-14-1.5-2.0

Tot Ion: 43 Resp: 945

Ion Ratio Lower Upper

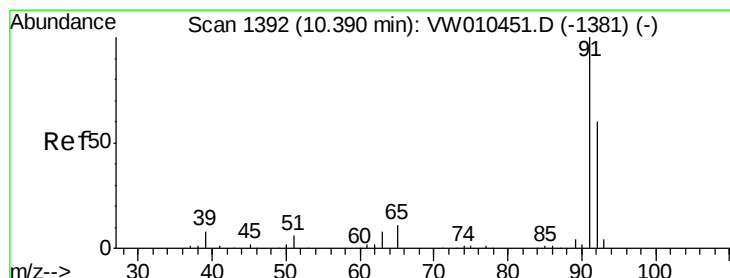
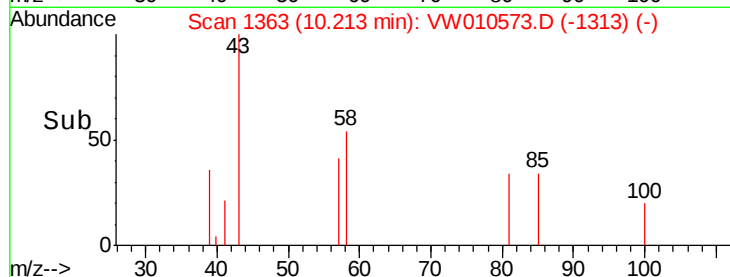
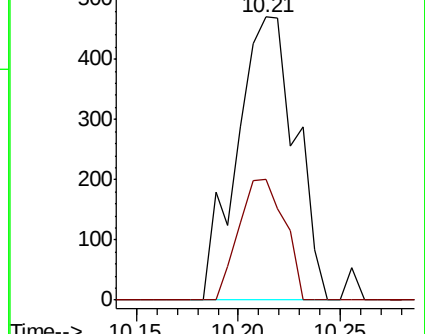
43 100

58 32.9 33.2 49.8#



Abundance Ion 43.00 (42.70 to 43.70): VW

Ion 58.00 (57.70 to 58.70): VW



#52

Toluene

Concen: 14.023 ug/l

RT: 10.39 min Scan# 1392

Delta R.T. -0.00 min

Lab File: VW010573.D

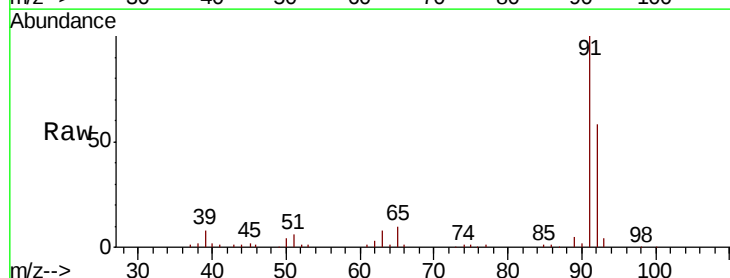
Acq: 28 May 2019 17:56

Tgt Ion: 92 Resp: 24848

Ion Ratio Lower Upper

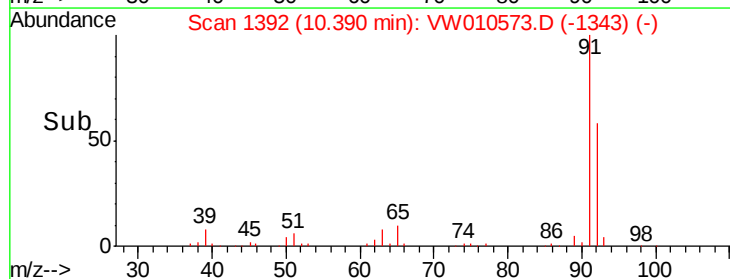
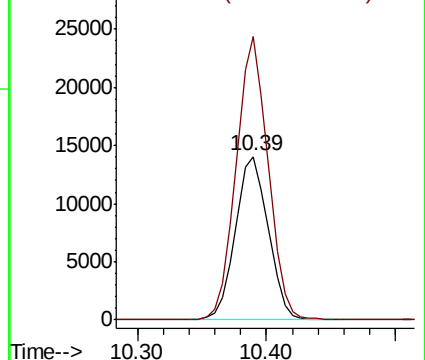
92 100

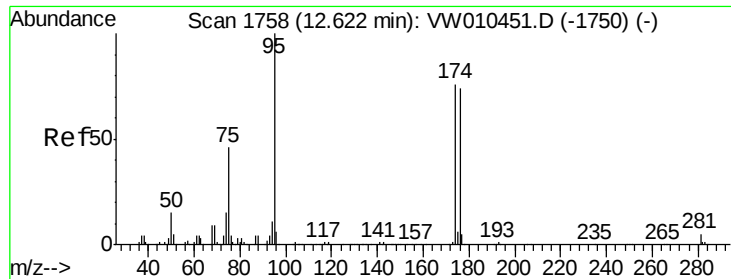
91 167.8 135.4 203.0



Abundance Ion 92.00 (91.70 to 92.70): VW

Ion 91.00 (90.70 to 91.70): VW

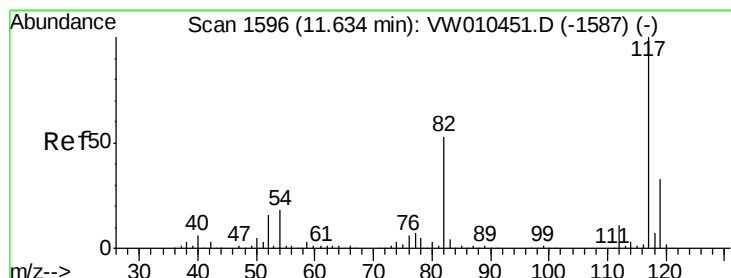
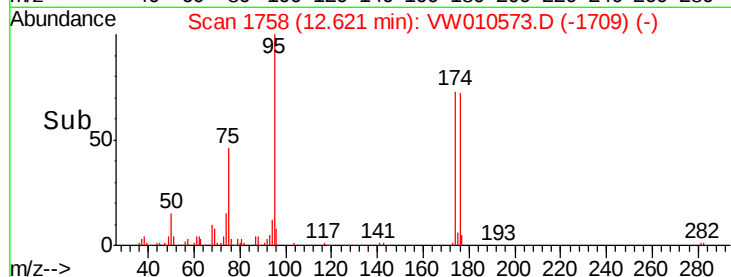
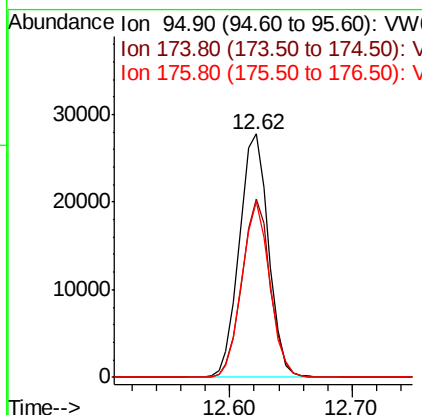
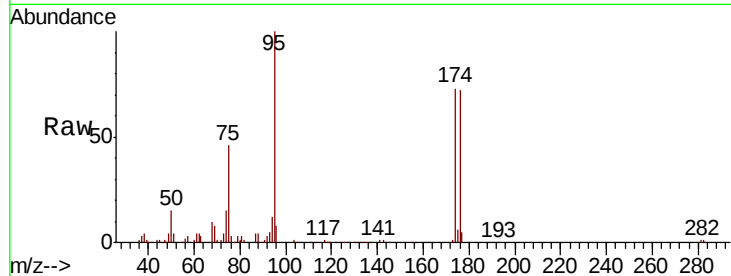




#62
4-Bromofluorobenzene
Concen: 48.844 ug/l
RT: 12.62 min Scan# 1758
Delta R.T. -0.00 min
Lab File: VW010573.D
Acq: 28 May 2019 17:56

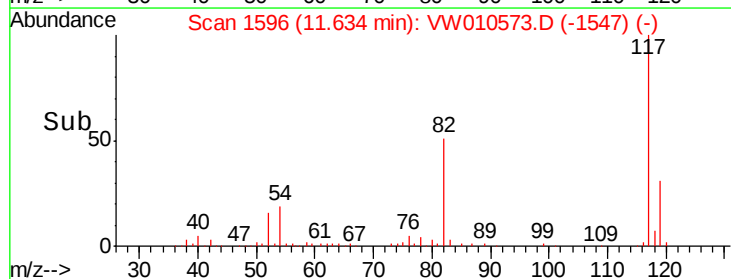
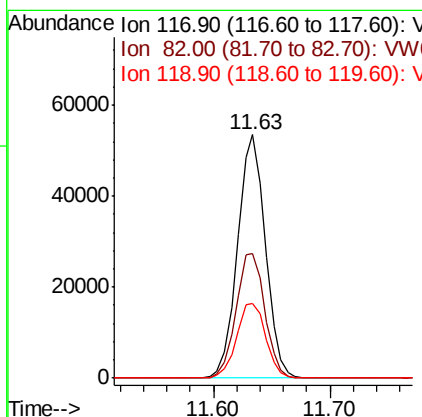
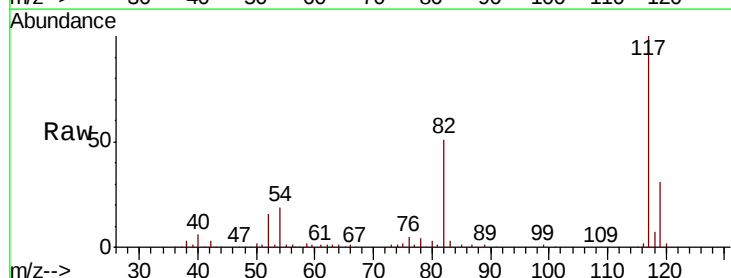
Instrument :
MSVOA_W
ClientSampleId :
B-14-1.5-2.0

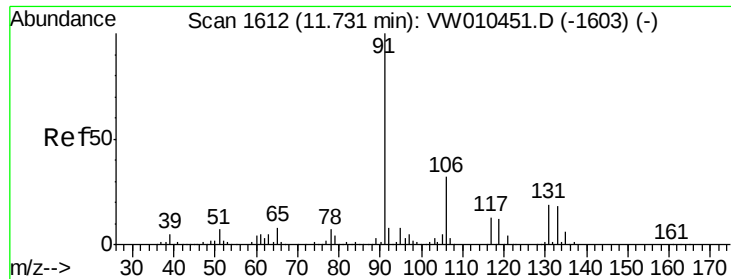
Tot Ion	95	Resp	45958
Ion Ratio	Lower	Upper	
95	100		
174	70.6	0.0	148.6
176	69.2	0.0	144.2



#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.63 min Scan# 1596
Delta R.T. -0.00 min
Lab File: VW010573.D
Acq: 28 May 2019 17:56

Tgt Ion	117	Resp	89161
Ion Ratio	Lower	Upper	
117	100		
82	51.3	42.8	64.2
119	30.6	26.3	39.5

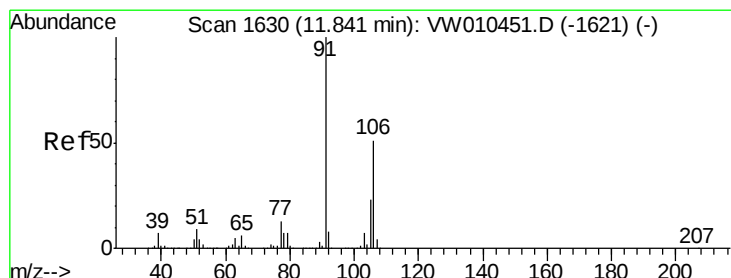
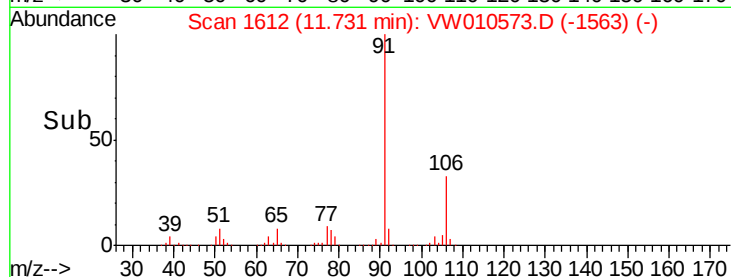
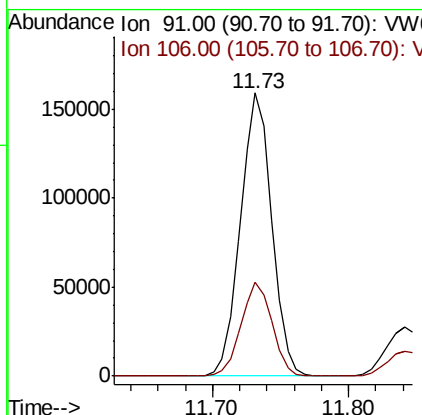
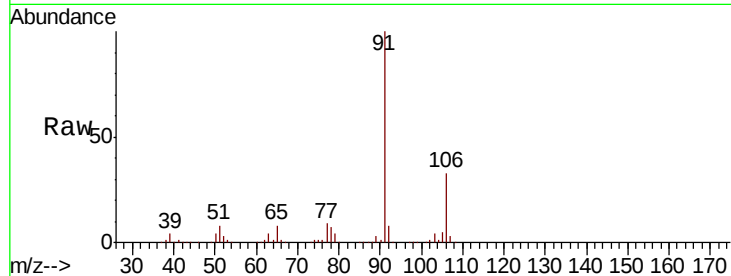




#67
Ethyl Benzene
Concen: 76.079 ug/l
RT: 11.73 min Scan# 1612
Delta R.T. -0.00 min
Lab File: VW010573.D
Acq: 28 May 2019 17:56

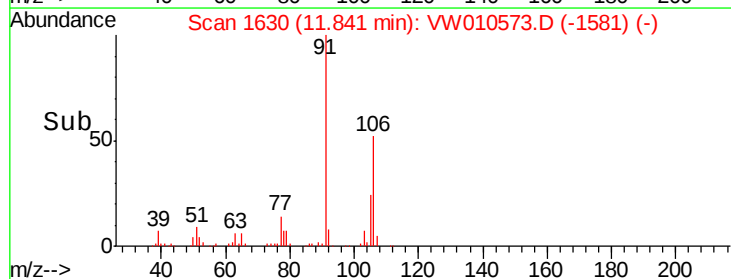
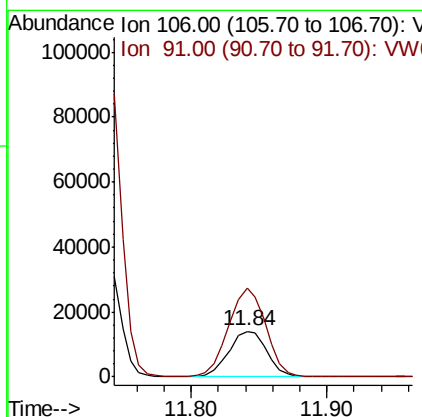
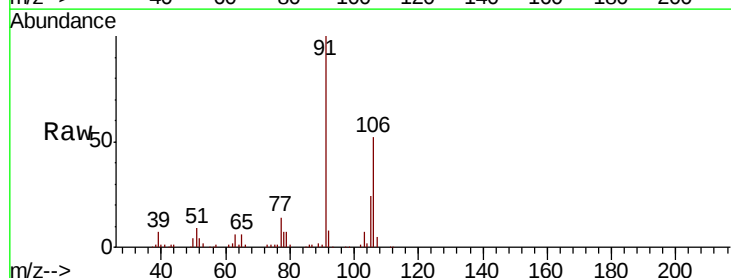
Instrument :
MSVOA_W
ClientSampleId :
B-14-1.5-2.0

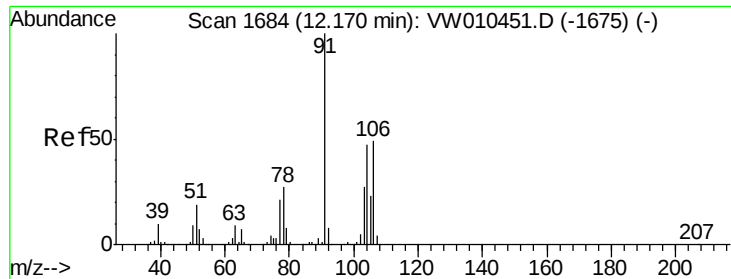
Tot Ion: 91 Resp: 255239
Ion Ratio Lower Upper
91 100
106 33.2 25.9 38.9



#68
m/p-Xylenes
Concen: 20.587 ug/l
RT: 11.84 min Scan# 1630
Delta R.T. -0.00 min
Lab File: VW010573.D
Acq: 28 May 2019 17:56

Tgt Ion:106 Resp: 27090
Ion Ratio Lower Upper
106 100
91 193.5 156.0 234.0

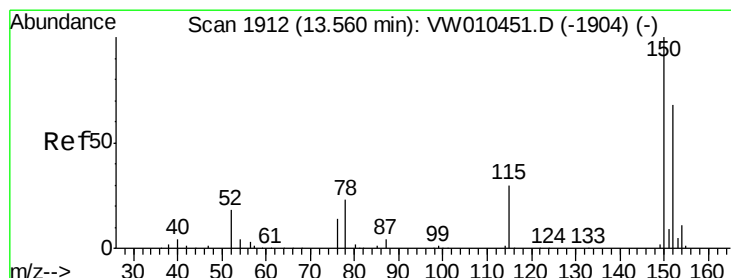
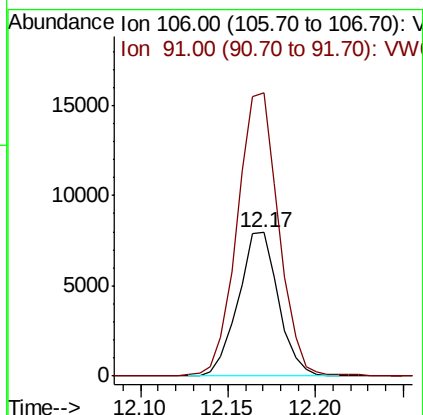
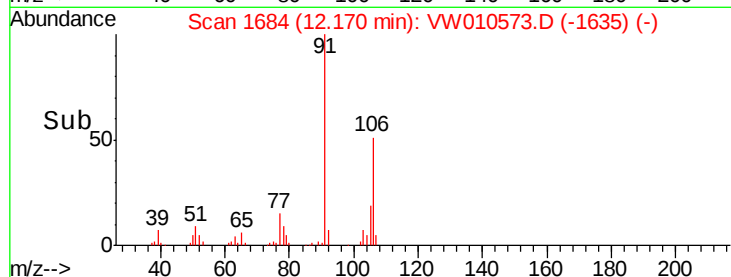
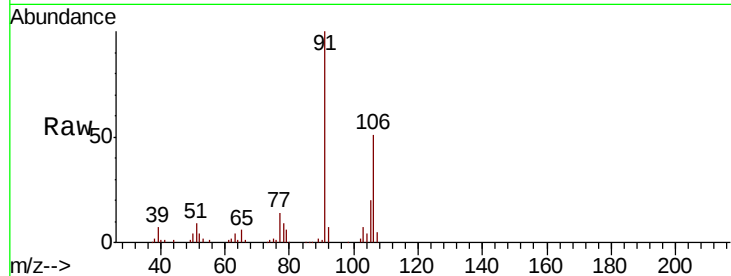




#69
o-Xylene
Concen: 10.174 ug/l
RT: 12.17 min Scan# 1684
Delta R.T. -0.00 min
Lab File: VW010573.D
Acq: 28 May 2019 17:56

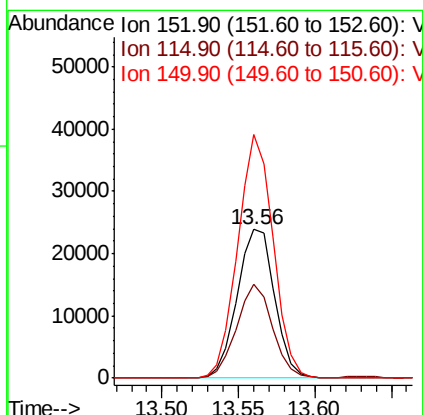
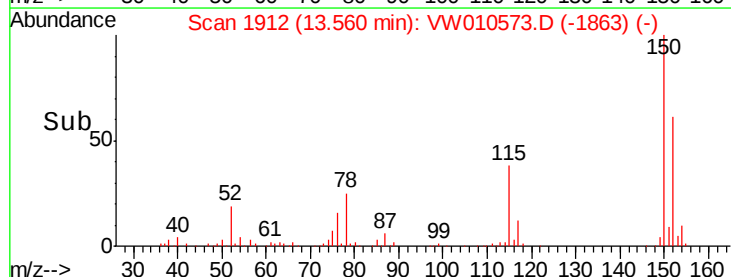
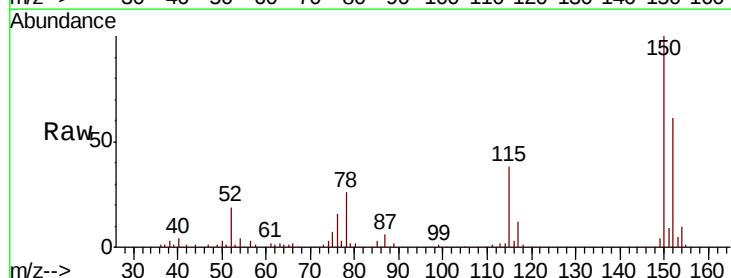
Instrument :
MSVOA_W
ClientSampleId :
B-14-1.5-2.0

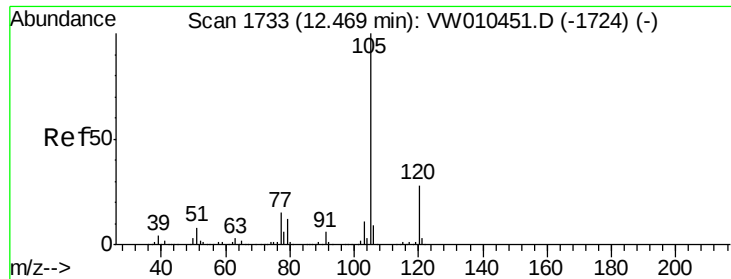
Tot Ion:106 Resp: 12684
Ion Ratio Lower Upper
106 100
91 203.5 103.2 309.4



#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 13.56 min Scan# 1912
Delta R.T. -0.00 min
Lab File: VW010573.D
Acq: 28 May 2019 17:56

Tgt Ion:152 Resp: 40337
Ion Ratio Lower Upper
152 100
115 60.7 30.3 91.0
150 155.7 0.0 349.8





#73

Isopropylbenzene

Concen: 2.565 ug/l

RT: 12.46 min Scan# 1732

Delta R.T. -0.01 min

Lab File: VW010573.D

Acq: 28 May 2019 17:56

Instrument :

MSVOA_W

ClientSampled :

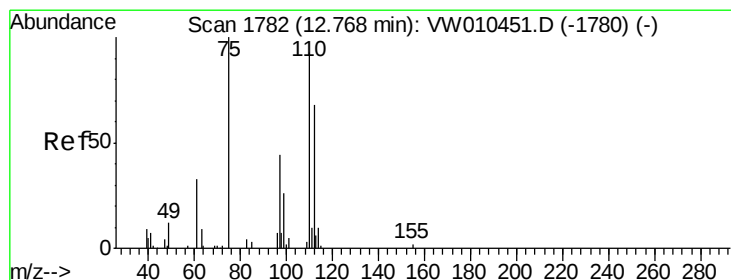
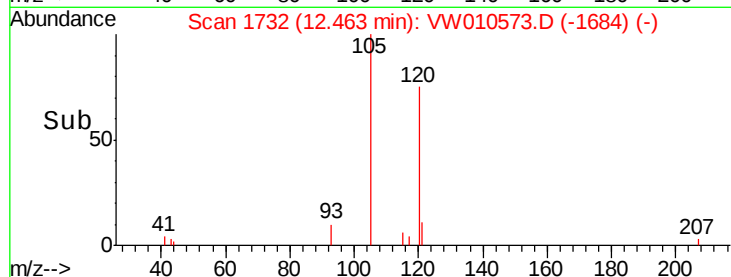
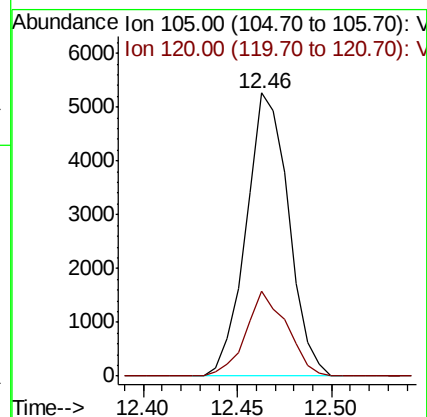
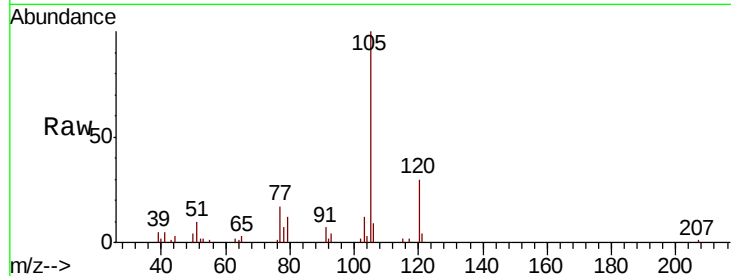
B-14-1.5-2.0

Tot Ion:105 Resp: 8211

Ion Ratio Lower Upper

105 100

120 29.1 13.9 41.7



#76

1,2,3-Trichloropropane

Concen: 51.333 ug/l

RT: 12.62 min Scan# 1758

Delta R.T. -0.15 min

Lab File: VW010573.D

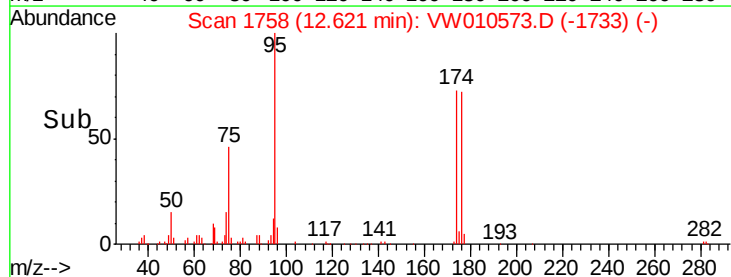
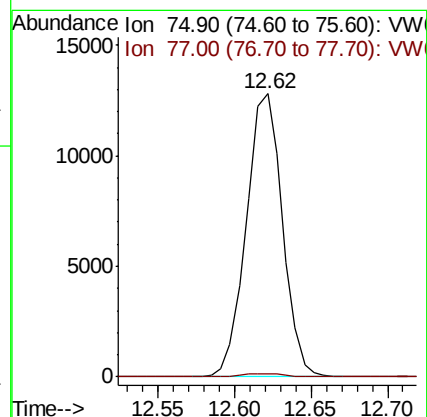
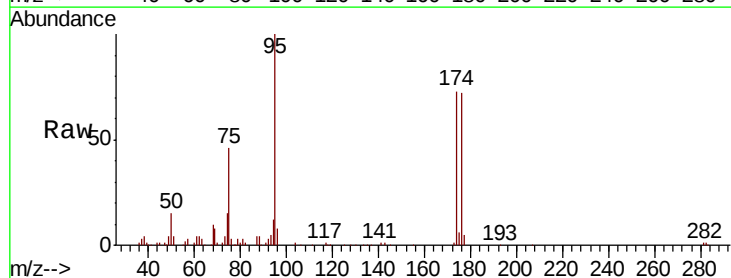
Acq: 28 May 2019 17:56

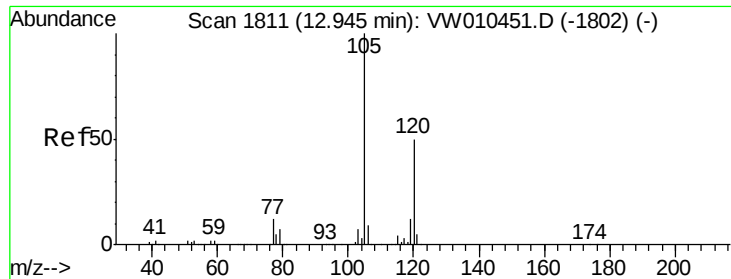
Tgt Ion: 75 Resp: 21018

Ion Ratio Lower Upper

75 100

77 1.2 170.0 510.1#

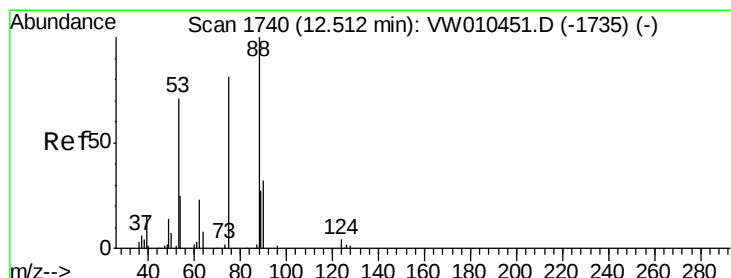
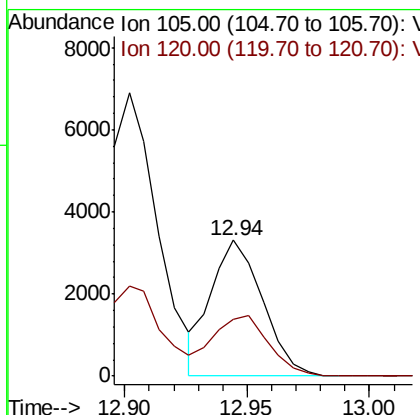
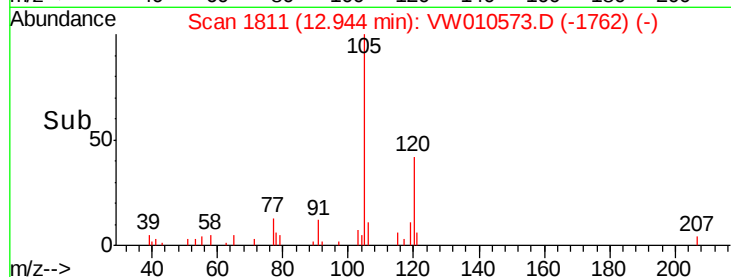
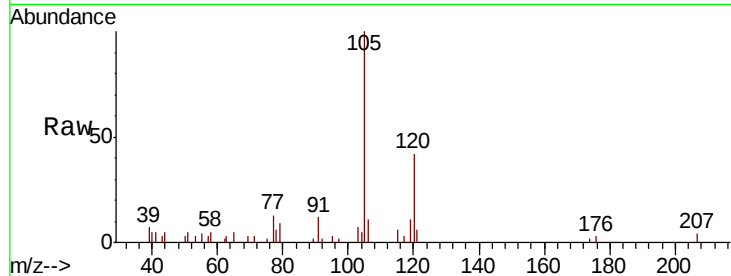




#80
 1,3,5-Trimethylbenzene
 Concen: 1.787 ug/l
 RT: 12.94 min Scan# 1811
 Delta R.T. -0.00 min
 Lab File: VW010573.D
 Acq: 28 May 2019 17:56

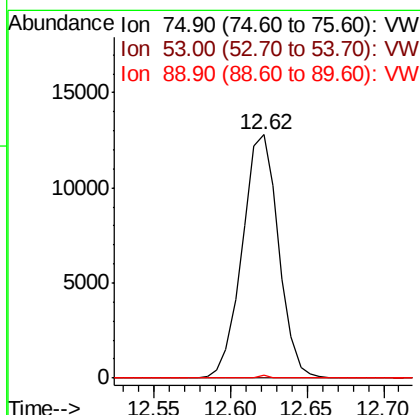
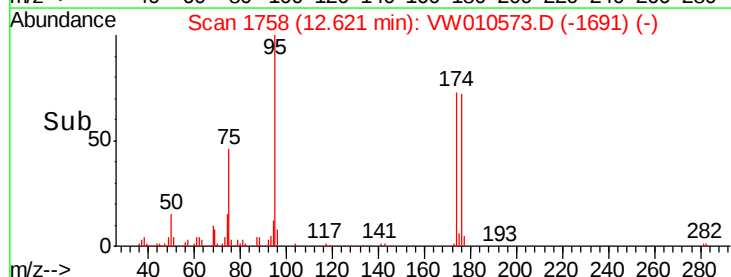
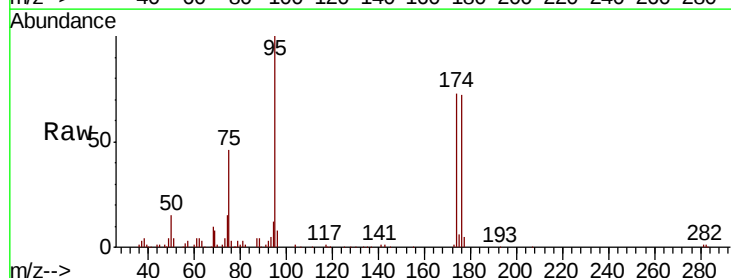
Instrument :
 MSVOA_W
 ClientSampleId :
 B-14-1.5-2.0

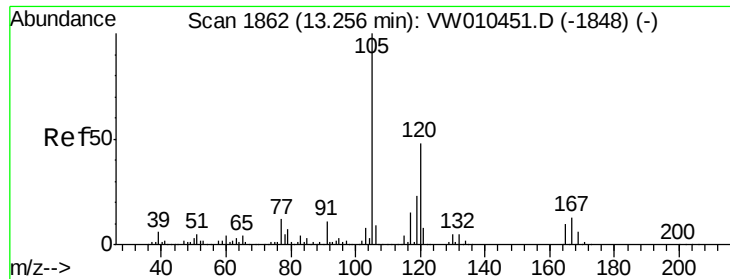
Tot Ion:105 Resp: 4844
 Ion Ratio Lower Upper
 105 100
 120 48.3 25.2 75.6



#81
 trans-1,4-Dichloro-2-butene
 Concen: 107.133 ug/l
 RT: 12.62 min Scan# 1758
 Delta R.T. 0.11 min
 Lab File: VW010573.D
 Acq: 28 May 2019 17:56

Tgt Ion: 75 Resp: 21018
 Ion Ratio Lower Upper
 75 100
 53 0.0 69.8 104.8#
 89 0.2 39.5 59.3#

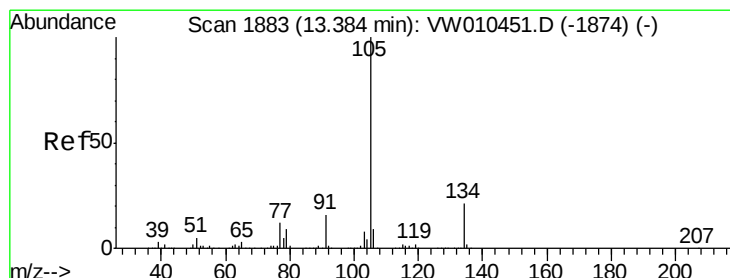
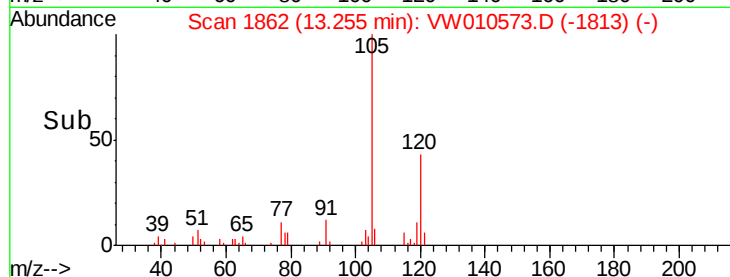
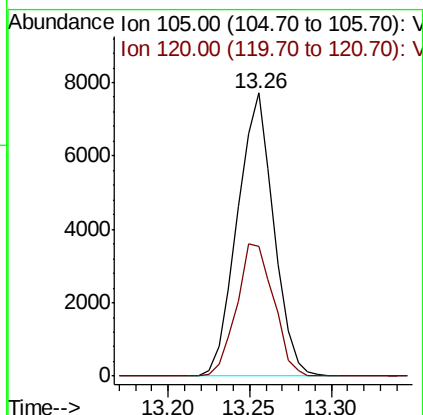
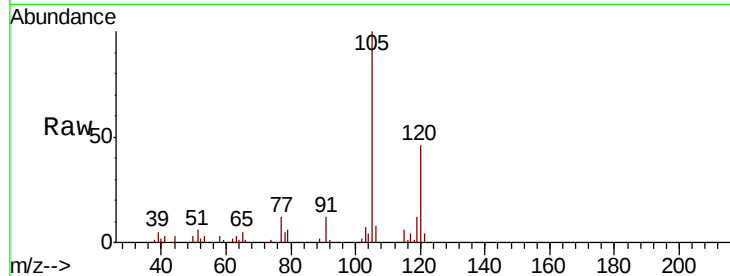




#84
1,2,4-Trimethylbenzene
Concen: 4.442 ug/l
RT: 13.26 min Scan# 1862
Delta R.T. -0.00 min
Lab File: VW010573.D
Acq: 28 May 2019 17:56

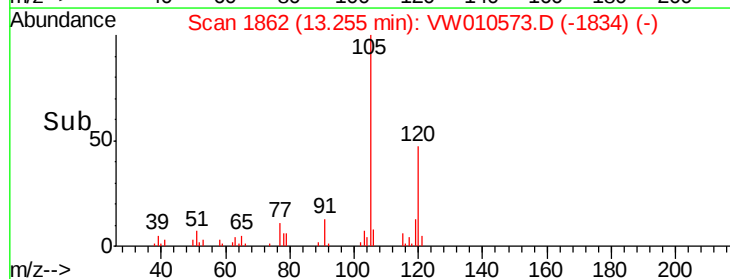
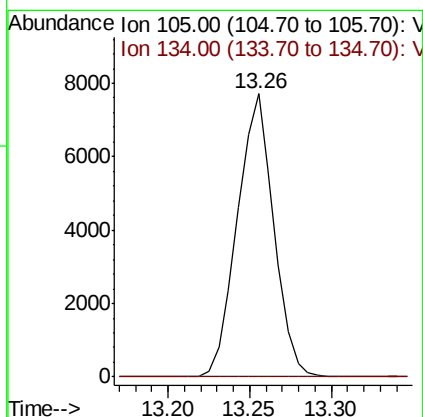
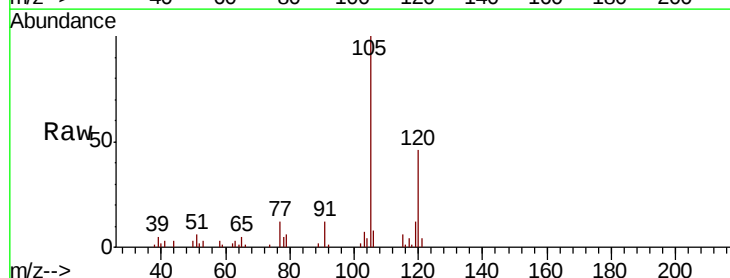
Instrument :
MSVOA_W
ClientSampleId :
B-14-1.5-2.0

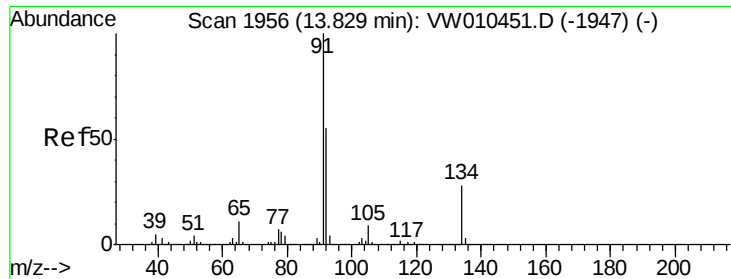
Tot Ion:105 Resp: 11993
Ion Ratio Lower Upper
105 100
120 47.4 23.4 70.2



#85
sec-Butylbenzene
Concen: 3.619 ug/l
RT: 13.26 min Scan# 1862
Delta R.T. -0.13 min
Lab File: VW010573.D
Acq: 28 May 2019 17:56

Tgt Ion:105 Resp: 11993
Ion Ratio Lower Upper
105 100
134 0.0 10.5 31.6#

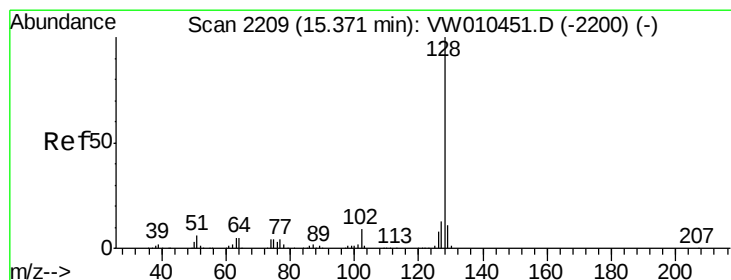
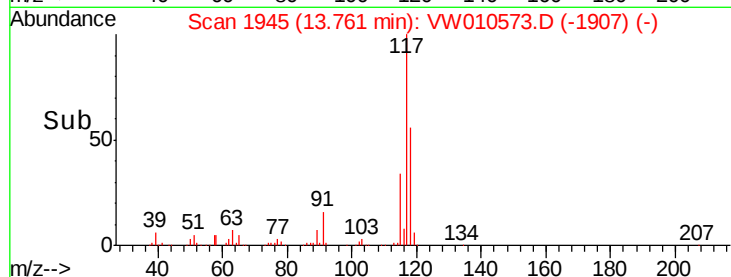
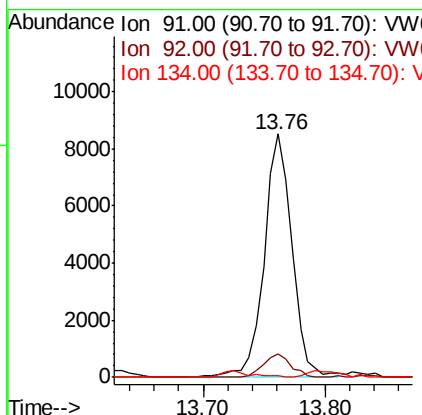
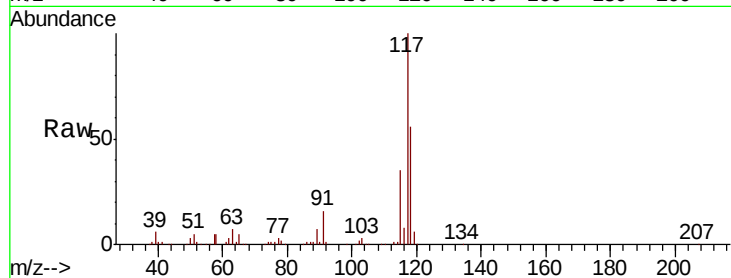




#89
n-Butylbenzene
Concen: 4.725 ug/l
RT: 13.76 min Scan# 1945
Delta R.T. -0.07 min
Lab File: VW010573.D
Acq: 28 May 2019 17:56

Instrument :
MSVOA_W
ClientSampleId :
B-14-1.5-2.0

Tot Ion	Ratio	Lower	Upper
91	100		
92	9.4	27.7	83.1#
134	0.0	13.9	41.6#



#95
Naphthalene
Concen: 12.324 ug/l
RT: 15.37 min Scan# 2209
Delta R.T. -0.00 min
Lab File: VW010573.D
Acq: 28 May 2019 17:56

Tgt Ion	Ratio	Lower	Upper
128	100		
127	12.8	10.6	15.8
129	12.0	8.9	13.3

