

Data Path : Z:\VOASRV\HPCHEM1\MSVOA_W\DATA\VW100919\
 Data File : VW013511.D
 Acq On : 09 Oct 2019 18:18
 Operator : SY/VA
 Sample : K5292-04
 Misc : 4.98G/5ML/MSVOA_W/SOIL
 ALS Vial : 18 Sample Multiplier: 1

Instrument :
 MSVOA_W
 ClientSampleId :
 20190857-AMENDED-COMP-D

Quant Time: Oct 10 02:41:51 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_W\METHOD\82W100819S.M
 Quant Title : SW846 8260
 QLast Update : Wed Oct 09 05:54:09 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	7.95	168	325970	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	8.84	114	486059	50.00	ug/l	0.00
63) Chlorobenzene-d5	11.63	117	416606	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.55	152	191331	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	137851	54.74	ug/l	0.00
Spiked Amount			Recovery	=	109.48%	
35) Dibromofluoromethane	7.88	113	124773	45.96	ug/l	0.00
Spiked Amount			Recovery	=	91.92%	
50) Toluene-d8	10.32	98	561154	49.19	ug/l	0.00
Spiked Amount			Recovery	=	98.38%	
62) 4-Bromofluorobenzene	12.62	95	183819	47.96	ug/l	0.00
Spiked Amount			Recovery	=	95.92%	

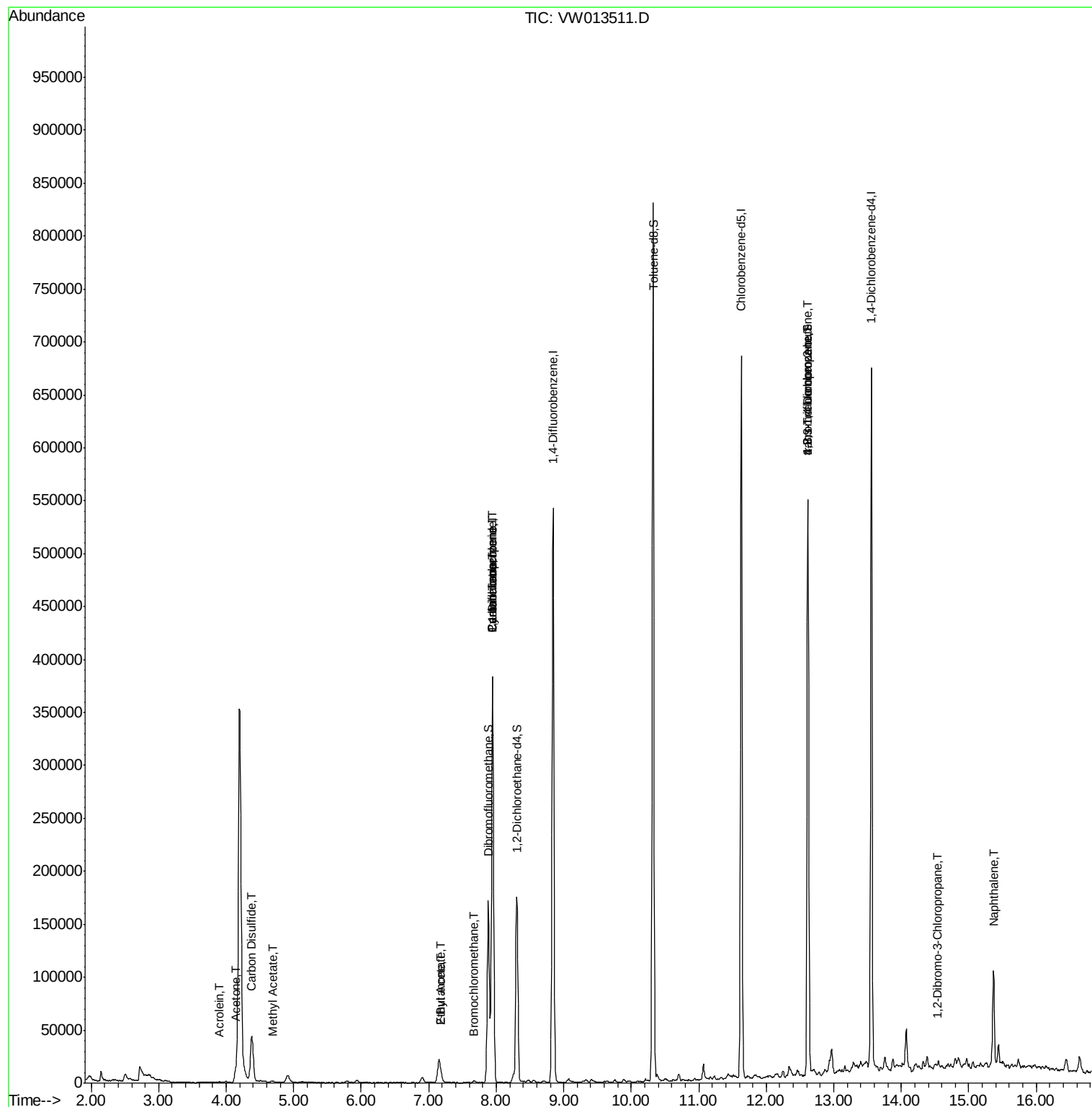
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
11) Tert butyl alcohol	5.17	59	112	Below Cal	#	72
13) Acrolein	3.91	56	1200	8.973	ug/l #	81
16) Acetone	4.14	43	25136	42.890	ug/l	93
17) Carbon Disulfide	4.38	76	99978	12.590	ug/l	99
18) Methyl Acetate	4.68	43	2494	1.486	ug/l	93
20) Methylene Chloride	4.92	84	6302	Below Cal	#	80
25) 2-Butanone	7.18	43	6891	7.978	ug/l	91
28) Bromochloromethane	7.68	49	49	2.384	ug/l #	98
31) Cyclohexane	7.94	56	5358	1.017	ug/l #	1
36) 1,1-Dichloropropene	7.94	75	21125	4.804	ug/l #	48
37) Ethyl Acetate	7.18	43	6891	3.454	ug/l #	68
38) Carbon Tetrachloride	7.95	117	27532	7.063	ug/l #	15
76) 1,2,3-Trichloropropane	12.62	75	84663	53.130	ug/l #	100
81) trans-1,4-Dichloro-2-buten	12.62	75	84663	108.606	ug/l #	14
92) 1,2-Dibromo-3-Chloropropan	14.52	75	519	1.394	ug/l #	21
95) Naphthalene	15.36	128	80497	12.107	ug/l	100

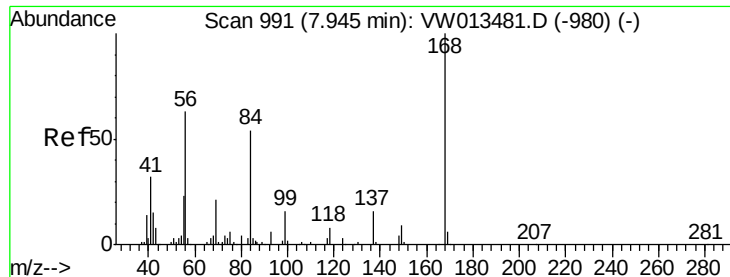
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 7.95 min Scan# 991

Delta R.T. 0.00 min

Lab File: VW013511.D

Acq: 09 Oct 2019 18:18

Instrument :

MSVOA_W

ClientSampleId :

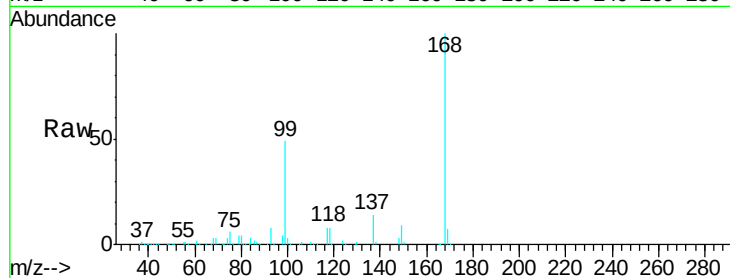
20190857-AMENDED-COMP-D

Tgt Ion: 168 Resp: 325970

Ion Ratio Lower Upper

168 100

99 49.4 38.3 57.5



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VW

7.95

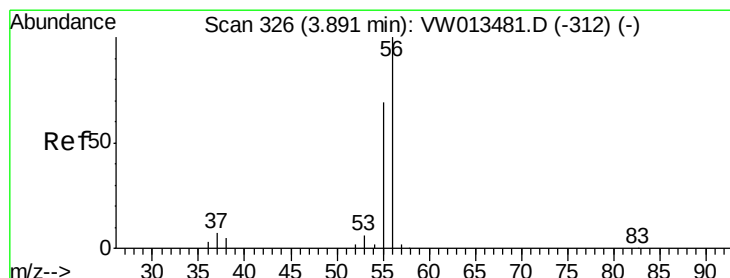
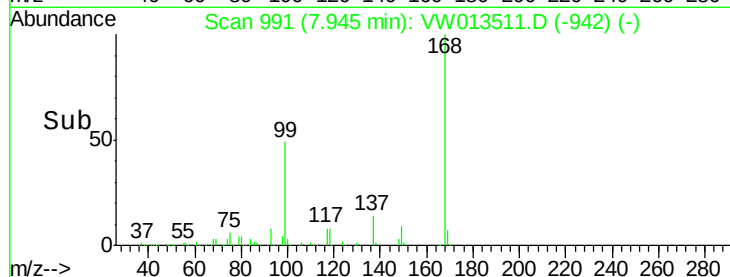
150000

100000

50000

0

Time-->



#13

Acrolein

Concen: 8.973 ug/l

RT: 3.91 min Scan# 329

Delta R.T. 0.02 min

Lab File: VW013511.D

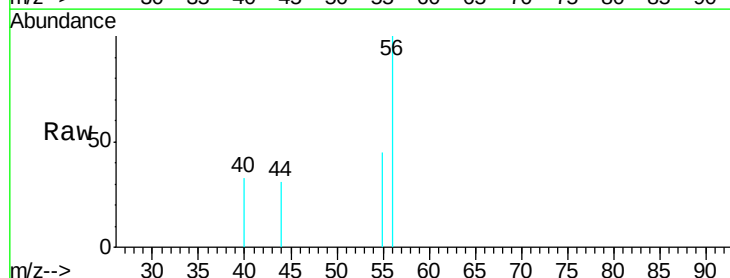
Acq: 09 Oct 2019 18:18

Tgt Ion: 56 Resp: 1200

Ion Ratio Lower Upper

56 100

55 54.4 55.9 83.9#



Abundance Ion 56.00 (55.70 to 56.70): VW

Ion 55.00 (54.70 to 55.70): VW

3.91

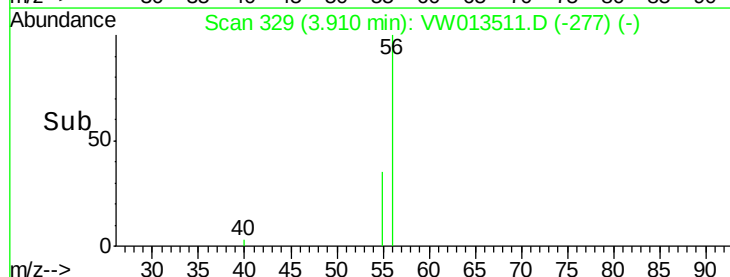
600

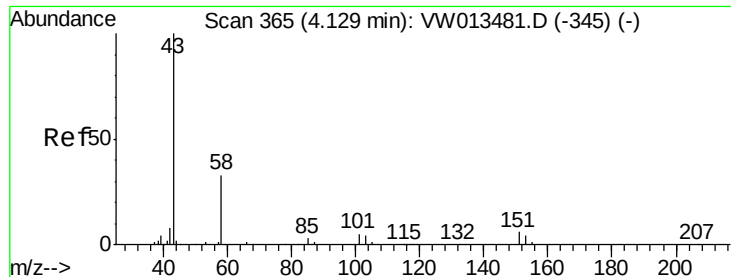
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200

0

Time-->

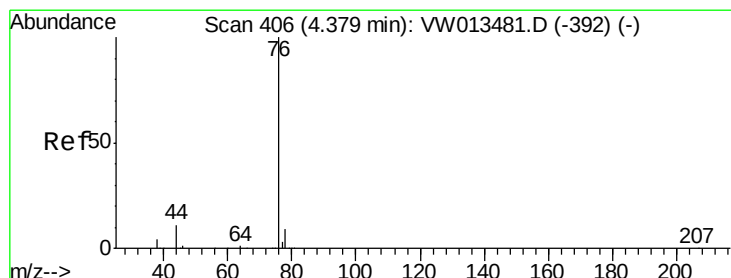
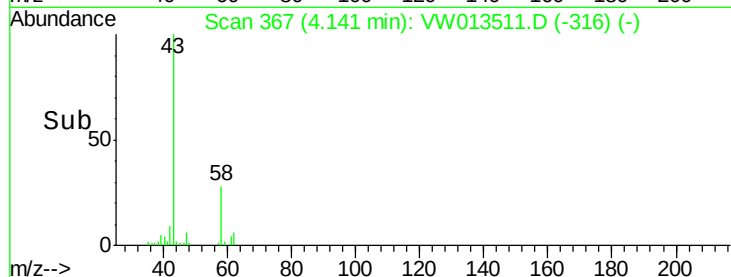
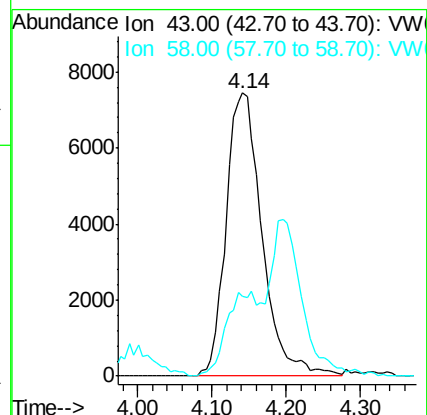
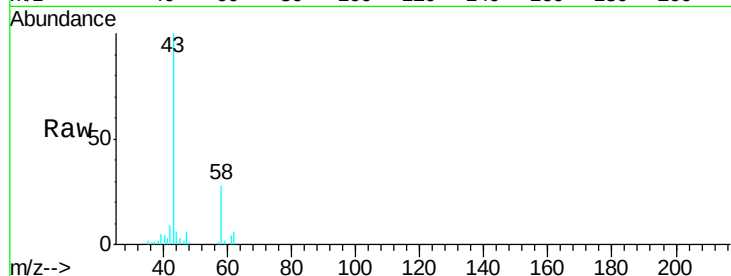




#16
Acetone
Concen: 42.890 ug/l
RT: 4.14 min Scan# 367
Delta R.T. 0.01 min
Lab File: VW013511.D
Acq: 09 Oct 2019 18:18

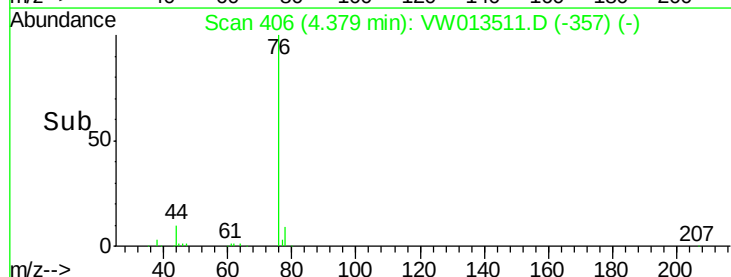
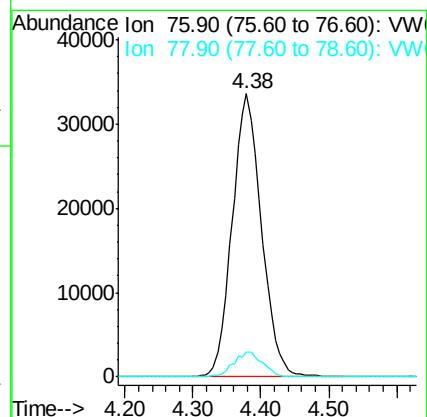
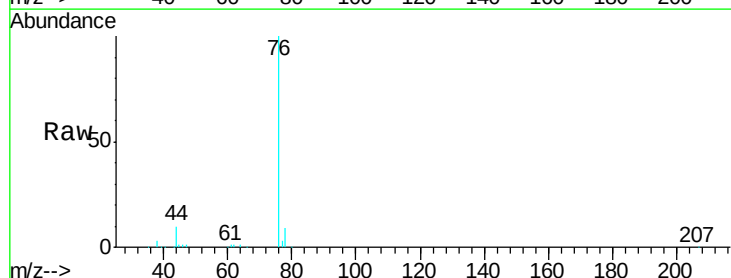
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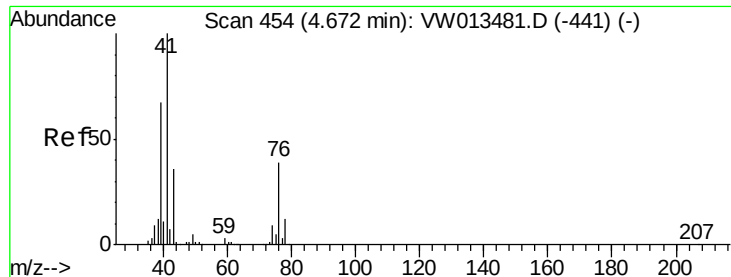
Tgt Ion: 43 Resp: 25136
Ion Ratio Lower Upper
43 100
58 28.4 26.1 39.1



#17
Carbon Disulfide
Concen: 12.590 ug/l
RT: 4.38 min Scan# 406
Delta R.T. 0.00 min
Lab File: VW013511.D
Acq: 09 Oct 2019 18:18

Tgt Ion: 76 Resp: 99978
Ion Ratio Lower Upper
76 100
78 8.6 7.1 10.7

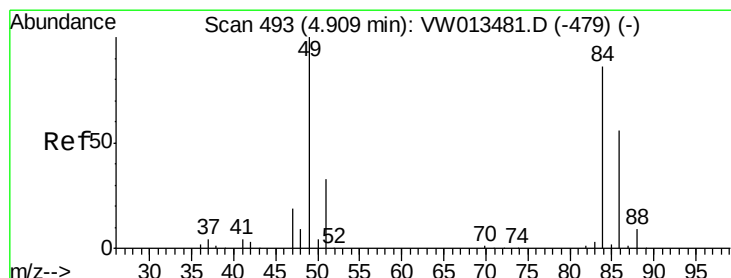
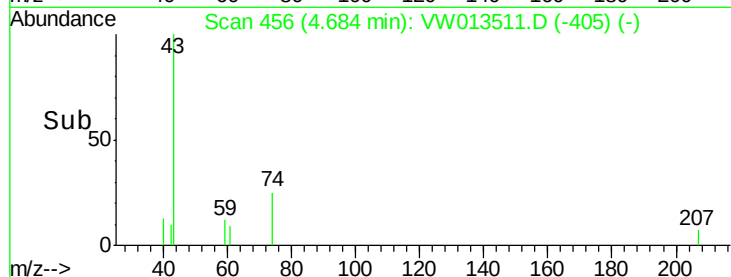
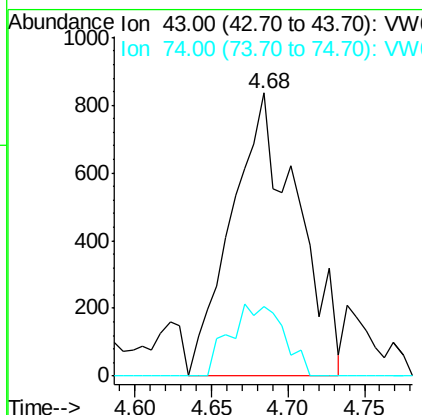
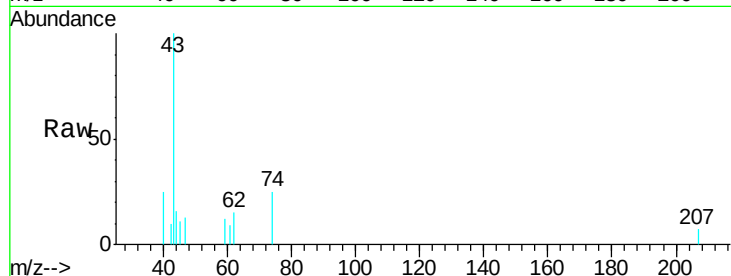




#18
Methyl Acetate
Concen: 1.486 ug/l
RT: 4.68 min Scan# 456
Delta R.T. 0.01 min
Lab File: VW013511.D
Acq: 09 Oct 2019 18:18

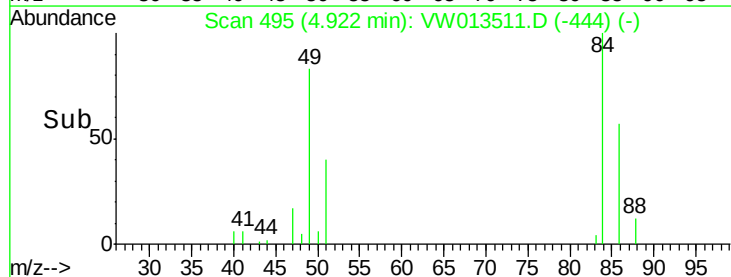
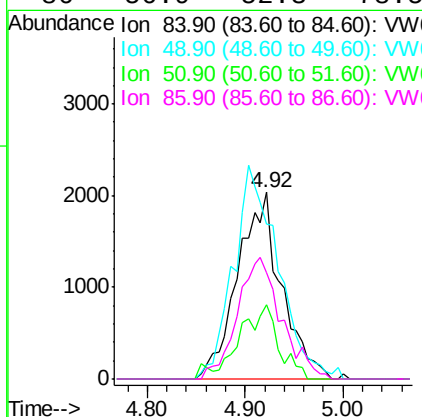
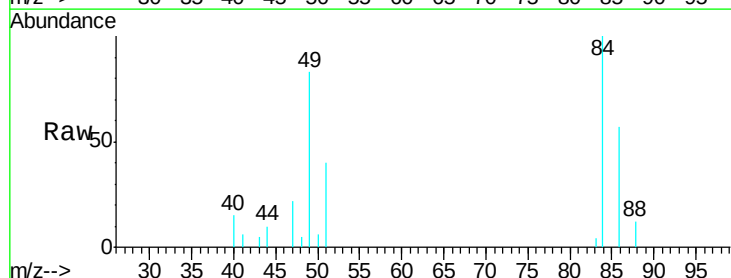
Instrument :
MSVOA_W
ClientSampleId :
20190857-AMENDED-COMP-D

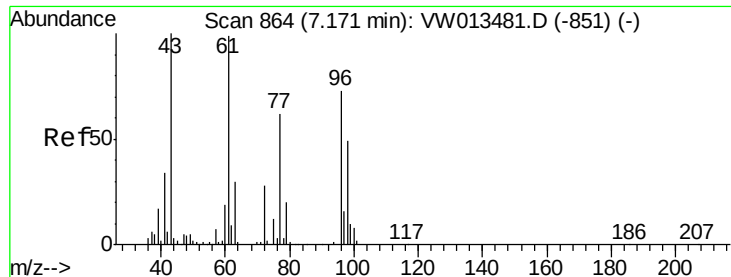
Tgt Ion: 43 Resp: 2494
Ion Ratio Lower Upper
43 100
74 20.8 19.6 29.4



#20
Methylene Chloride
Concen: Below Cal
RT: 4.92 min Scan# 495
Delta R.T. 0.01 min
Lab File: VW013511.D
Acq: 09 Oct 2019 18:18

Tgt Ion: 84 Resp: 6302
Ion Ratio Lower Upper
84 100
49 82.9 93.4 140.0#
51 40.0 30.6 46.0
86 56.9 52.3 78.5





#25

2-Butanone

Concen: 7.978 ug/l

RT: 7.18 min Scan# 866

Delta R.T. 0.01 min

Lab File: VW013511.D

Acq: 09 Oct 2019 18:18

Instrument :

MSVOA_W

ClientSampleId :

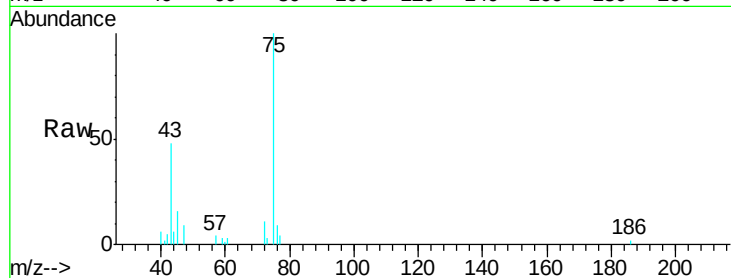
20190857-AMENDED-COMP-D

Tgt Ion: 43 Resp: 6891

Ion Ratio Lower Upper

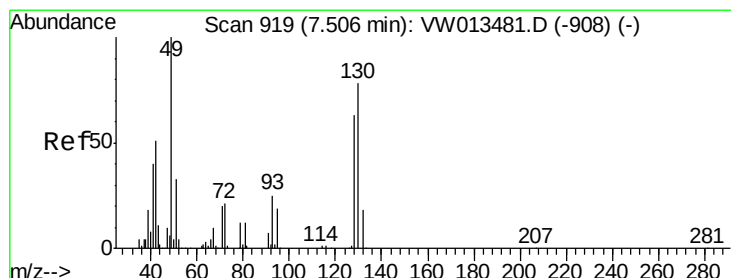
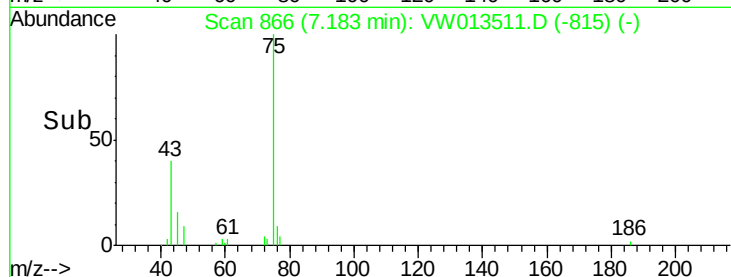
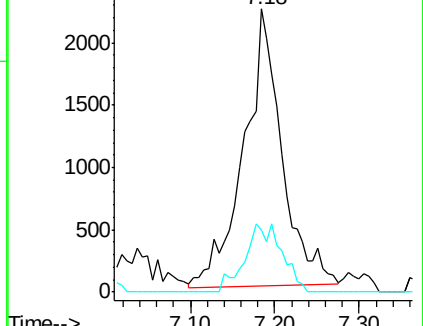
43 100

72 22.7 22.1 33.1



Abundance Ion 43.00 (42.70 to 43.70): VW

Ion 72.00 (71.70 to 72.70): VW



#28

Bromochloromethane

Concen: 2.384 ug/l

RT: 7.68 min Scan# 947

Delta R.T. 0.17 min

Lab File: VW013511.D

Acq: 09 Oct 2019 18:18

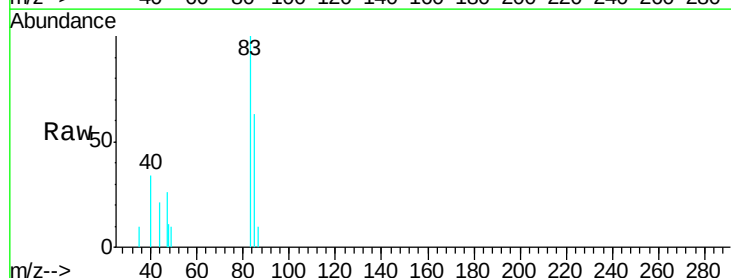
Tgt Ion: 49 Resp: 49

Ion Ratio Lower Upper

49 100

129 0.0 0.0 1.6

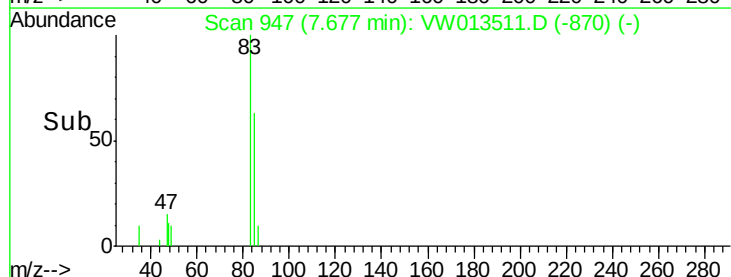
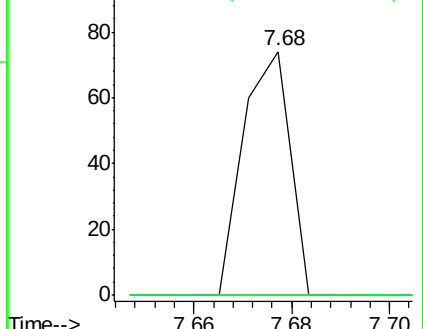
130 0.0 0.0 0.0

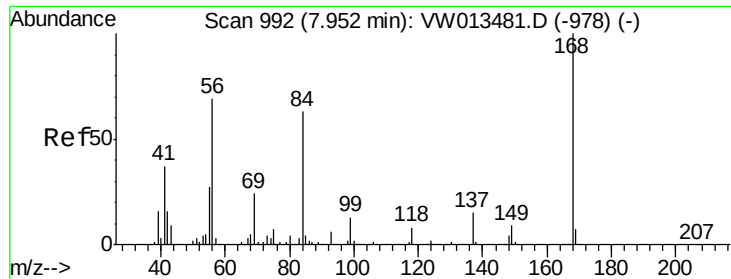


Abundance Ion 48.90 (48.60 to 49.60): VW

Ion 128.80 (128.50 to 129.50): V

Ion 129.80 (129.50 to 130.50): V

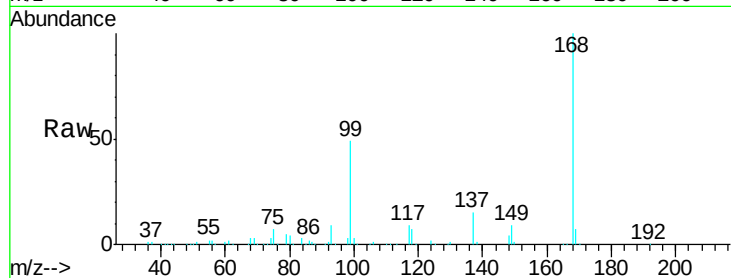




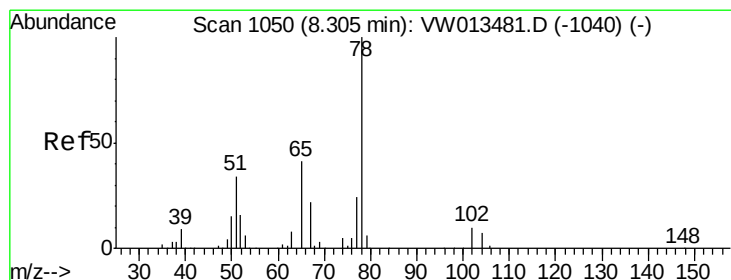
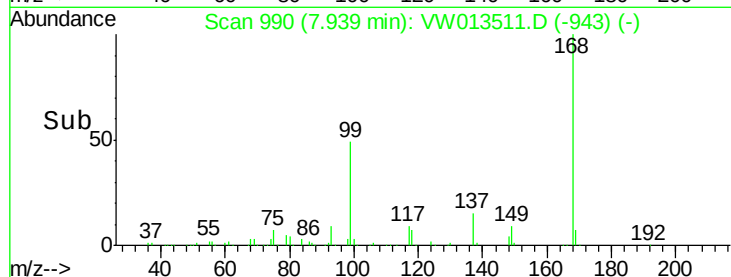
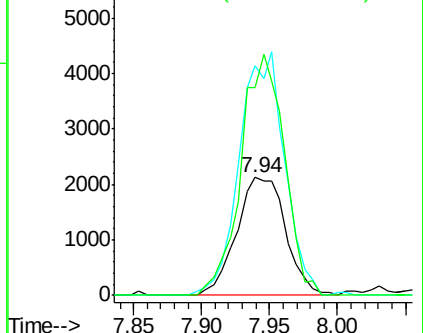
#31
Cyclohexane
Concen: 1.017 ug/l
RT: 7.94 min Scan# 990
Delta R.T. -0.01 min
Lab File: VW013511.D
Acq: 09 Oct 2019 18:18

Instrument :
MSVOA_W
ClientSampleId :
20190857-AMENDED-COMP-D

Tgt Ion: 56 Resp: 5358
Ion Ratio Lower Upper
56 100
69 194.6 28.0 42.0#
84 176.7 71.8 107.6#

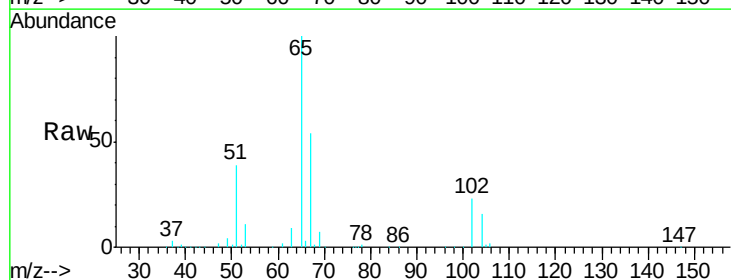


Abundance Ion 56.00 (55.70 to 56.70): VW
Ion 69.00 (68.70 to 69.70): VW
Ion 84.00 (83.70 to 84.70): VW

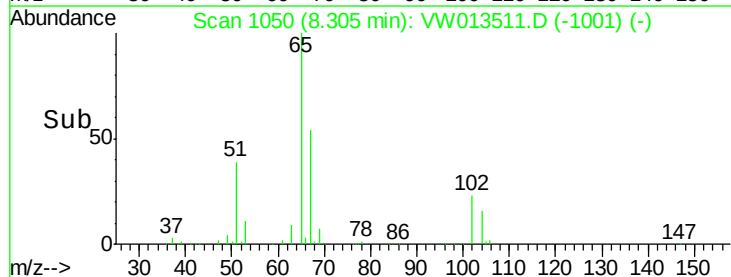
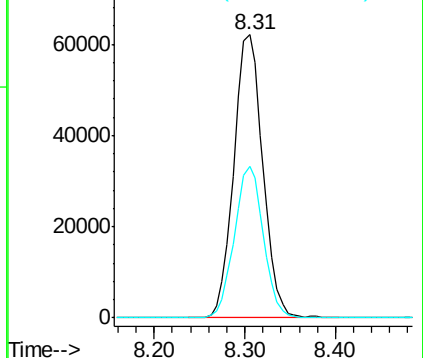


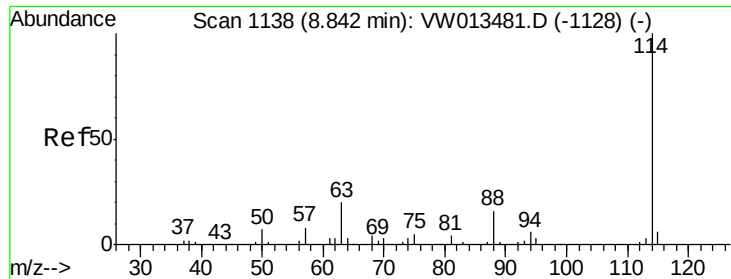
#33
1,2-Dichloroethane-d4
Concen: 54.737 ug/l
RT: 8.31 min Scan# 1050
Delta R.T. 0.00 min
Lab File: VW013511.D
Acq: 09 Oct 2019 18:18

Tgt Ion: 65 Resp: 137851
Ion Ratio Lower Upper
65 100
67 53.5 0.0 109.4



Abundance Ion 64.90 (64.60 to 65.60): VW
Ion 66.90 (66.60 to 67.60): VW

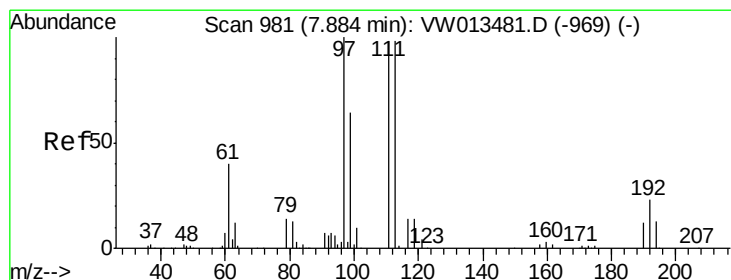
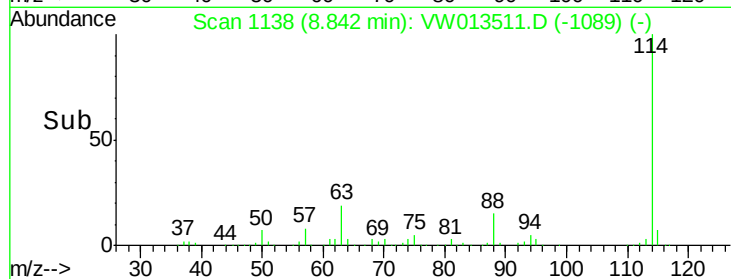
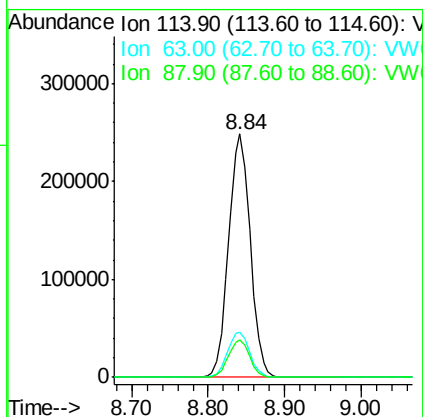
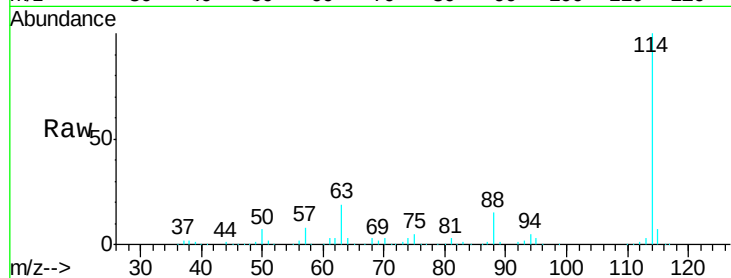




#34
 1,4-Difluorobenzene
 Concen: 50.000 ug/l
 RT: 8.84 min Scan# 1138
 Delta R.T. 0.00 min
 Lab File: VW013511.D
 Acq: 09 Oct 2019 18:18

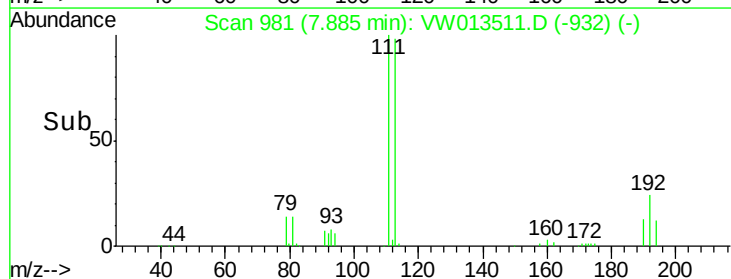
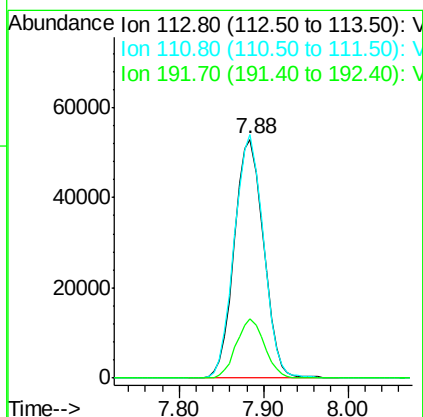
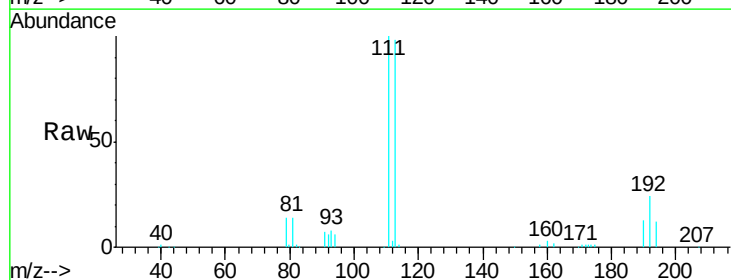
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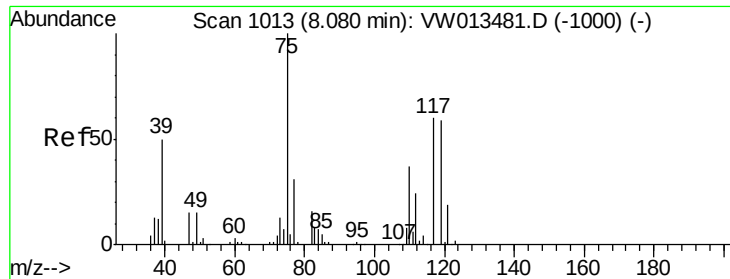
Tgt Ion:114 Resp: 486059
 Ion Ratio Lower Upper
 114 100
 63 18.8 0.0 40.4
 88 15.3 0.0 31.4



#35
 Dibromofluoromethane
 Concen: 45.961 ug/l
 RT: 7.88 min Scan# 981
 Delta R.T. 0.00 min
 Lab File: VW013511.D
 Acq: 09 Oct 2019 18:18

Tgt Ion:113 Resp: 124773
 Ion Ratio Lower Upper
 113 100
 111 101.3 82.3 123.5
 192 24.0 19.3 28.9





#36

1,1-Dichloropropene

Concen: 4.804 ug/l

RT: 7.94 min Scan# 990

Delta R.T. -0.14 min

Lab File: VW013511.D

Acq: 09 Oct 2019 18:18

Instrument :

MSVOA_W

ClientSampleId :

20190857-AMENDED-COMP-D

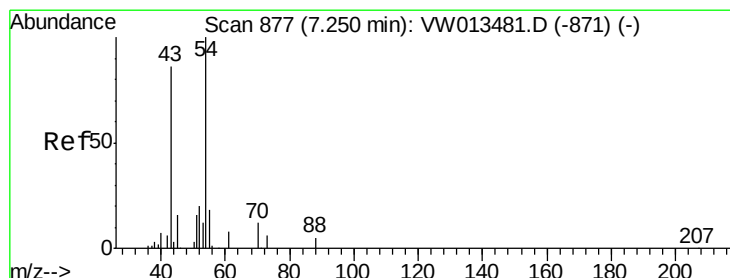
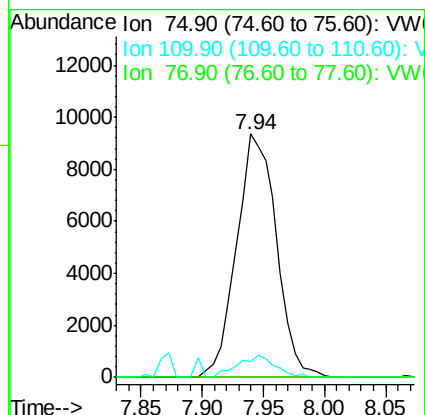
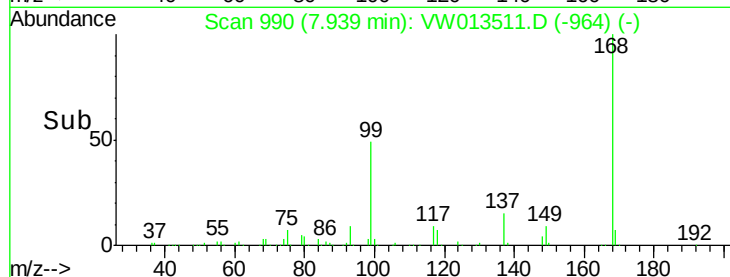
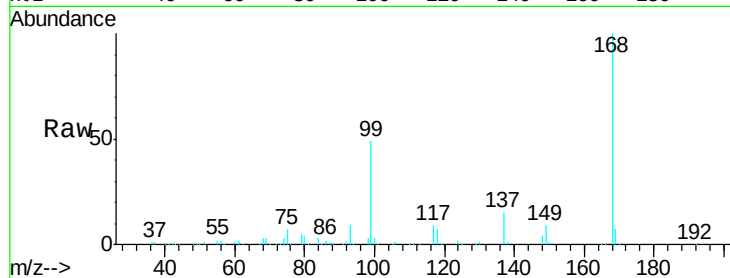
Tgt Ion: 75 Resp: 21125

Ion Ratio Lower Upper

75 100

110 8.4 18.4 55.2#

77 0.0 25.0 37.4#



#37

Ethyl Acetate

Concen: 3.454 ug/l

RT: 7.18 min Scan# 866

Delta R.T. -0.07 min

Lab File: VW013511.D

Acq: 09 Oct 2019 18:18

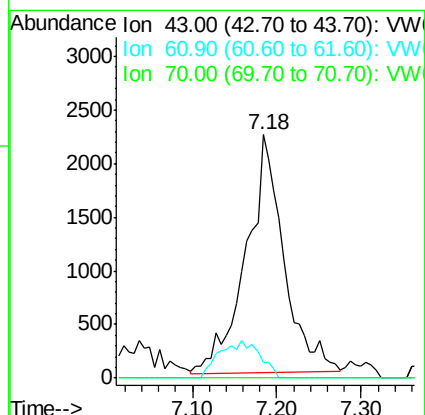
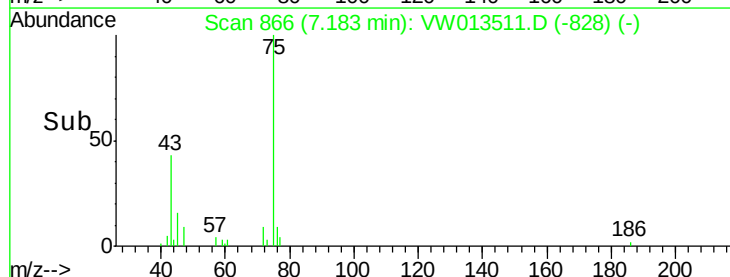
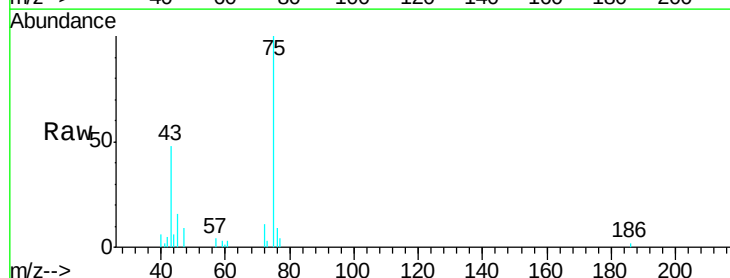
Tgt Ion: 43 Resp: 6891

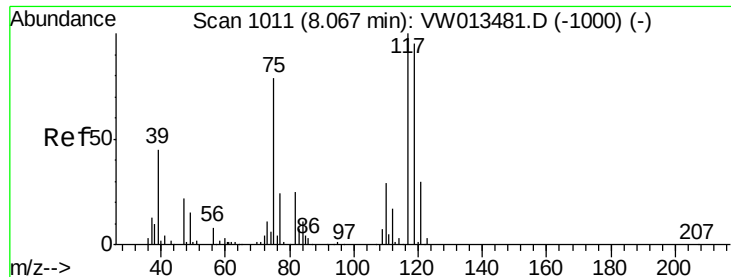
Ion Ratio Lower Upper

43 100

61 0.0 10.9 16.3#

70 0.0 9.2 13.8#





#38

Carbon Tetrachloride

Concen: 7.063 ug/l

RT: 7.95 min Scan# 991

Delta R.T. -0.12 min

Lab File: VW013511.D

Acq: 09 Oct 2019 18:18

Instrument :

MSVOA_W

ClientSampleId :

20190857-AMENDED-COMP-D

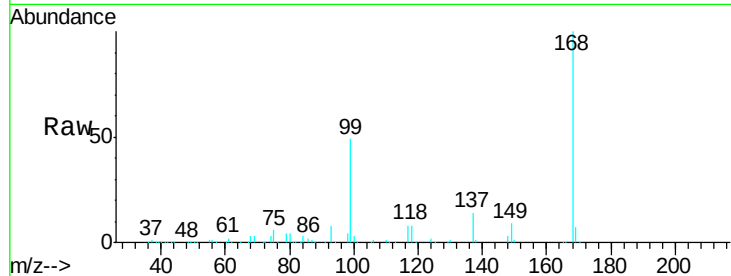
Tgt Ion:117 Resp: 27532

Ion Ratio Lower Upper

117 100

119 3.8 76.3 114.5#

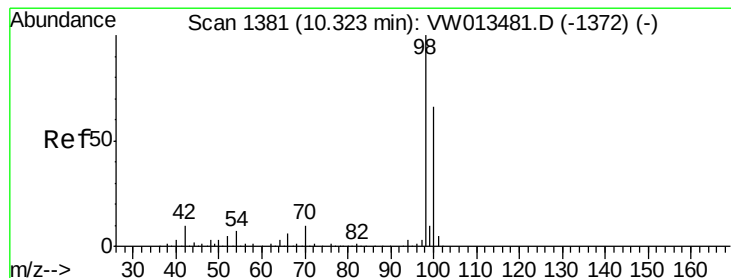
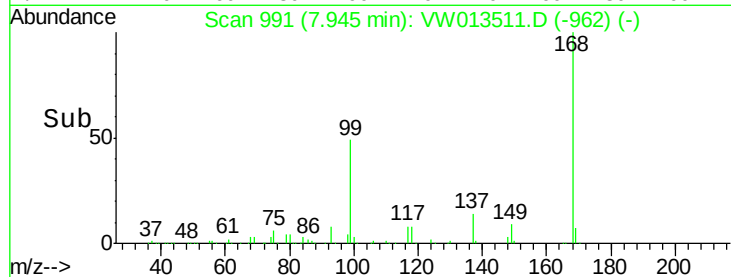
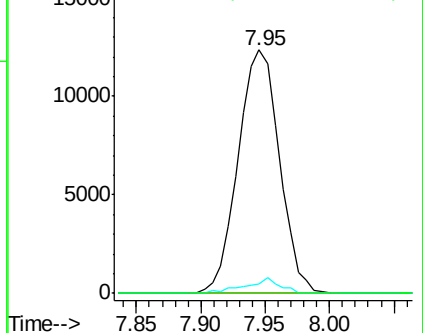
121 0.0 23.6 35.4#



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: 49.187 ug/l

RT: 10.32 min Scan# 1381

Delta R.T. 0.00 min

Lab File: VW013511.D

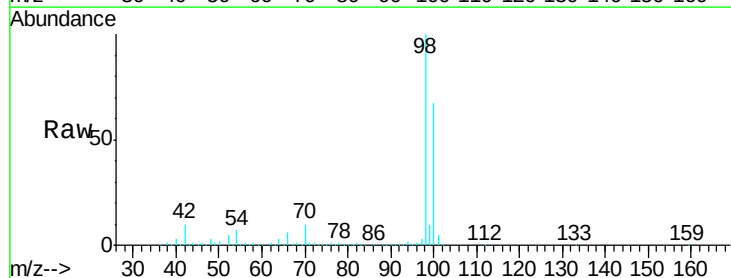
Acq: 09 Oct 2019 18:18

Tgt Ion: 98 Resp: 561154

Ion Ratio Lower Upper

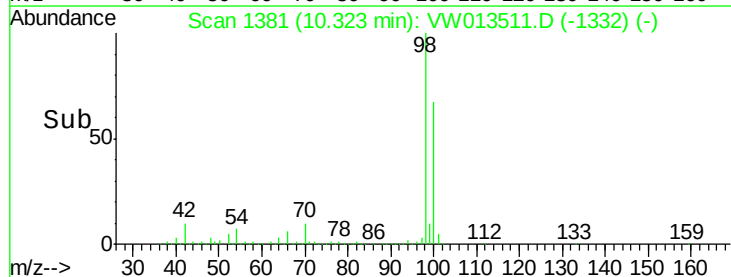
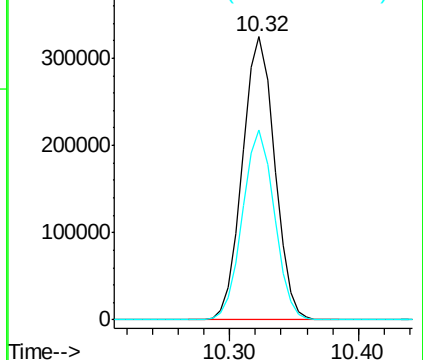
98 100

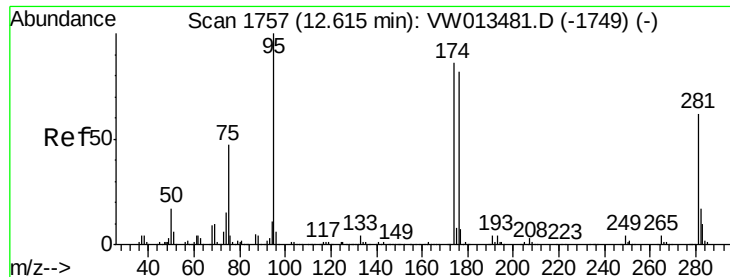
100 66.2 53.2 79.8



Abundance Ion 98.00 (97.70 to 98.70): VW

Ion 100.00 (99.70 to 100.70): VW





#62

4-Bromofluorobenzene

Concen: 47.963 ug/l

RT: 12.62 min Scan# 1757

Delta R.T. 0.00 min

Lab File: VW013511.D

Acq: 09 Oct 2019 18:18

Instrument :

MSVOA_W

ClientSampleId :

20190857-AMENDED-COMP-D

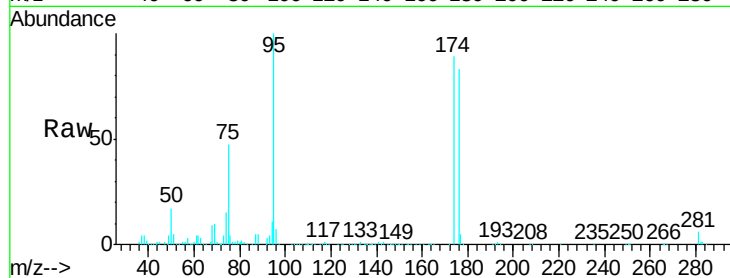
Tgt Ion: 95 Resp: 183819

Ion Ratio Lower Upper

95 100

174 91.3 0.0 177.4

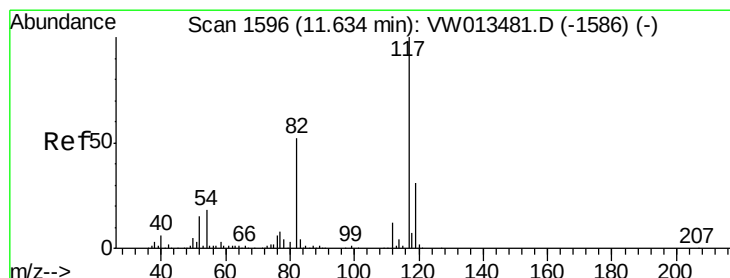
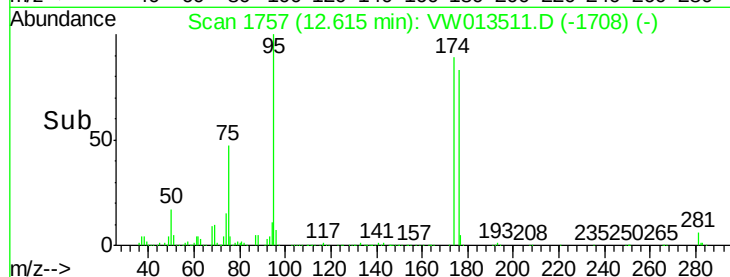
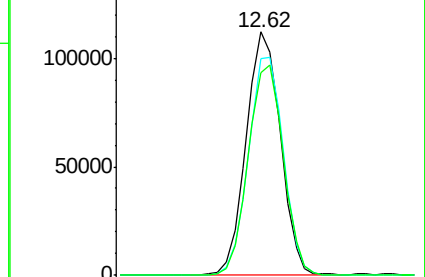
176 88.6 0.0 173.4



Abundance Ion 94.90 (94.60 to 95.60): VW

Ion 173.80 (173.50 to 174.50): VW

Ion 175.80 (175.50 to 176.50): VW



#63

Chlorobenzene-d5

Concen: 50.000 ug/l

RT: 11.63 min Scan# 1595

Delta R.T. -0.01 min

Lab File: VW013511.D

Acq: 09 Oct 2019 18:18

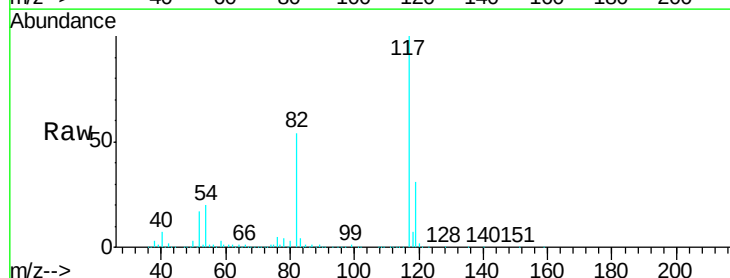
Tgt Ion: 117 Resp: 416606

Ion Ratio Lower Upper

117 100

82 54.4 41.4 62.2

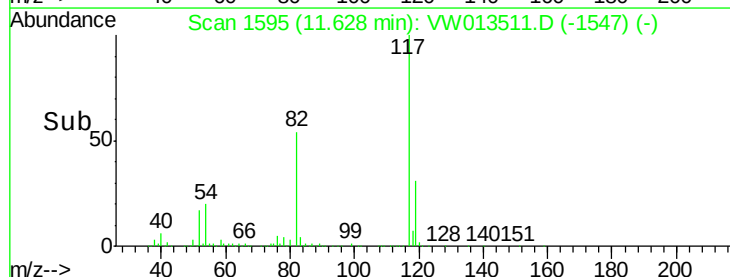
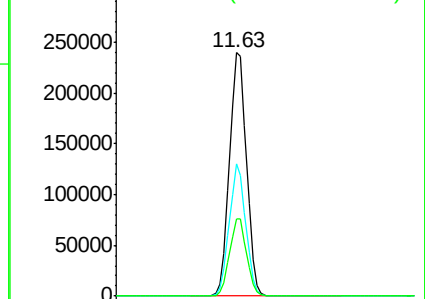
119 31.5 25.1 37.7

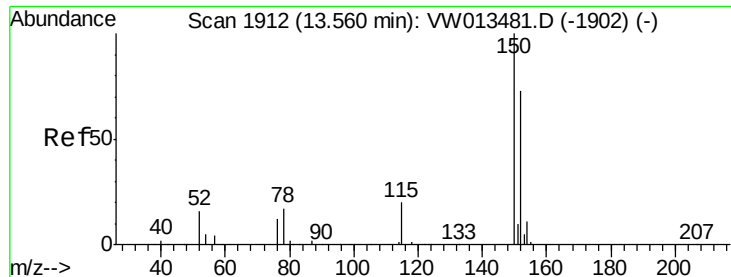


Abundance Ion 116.90 (116.60 to 117.60): VW

Ion 82.00 (81.70 to 82.70): VW

Ion 118.90 (118.60 to 119.60): VW





#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

RT: 13.55 min Scan# 1911

Delta R.T. -0.01 min

Lab File: VW013511.D

Acq: 09 Oct 2019 18:18

Instrument :

MSVOA_W

ClientSampleId :

20190857-AMENDED-COMP-D

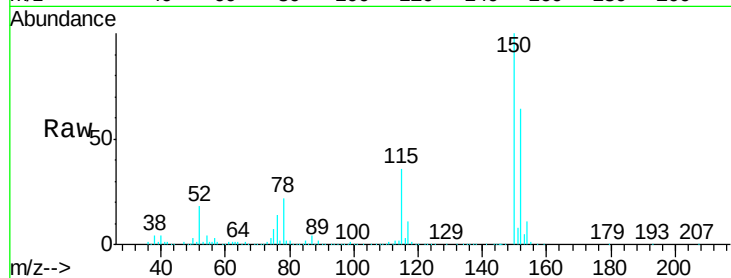
Tgt Ion:152 Resp: 191331

Ion Ratio Lower Upper

152 100

115 54.2 27.0 81.0

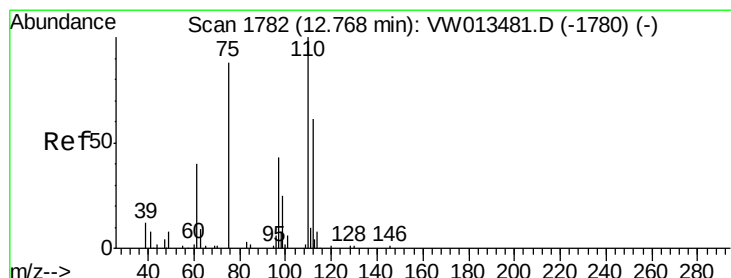
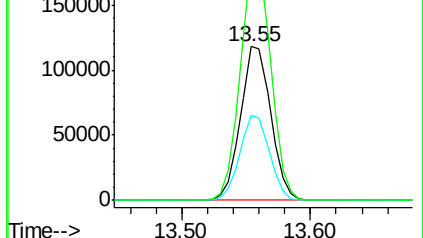
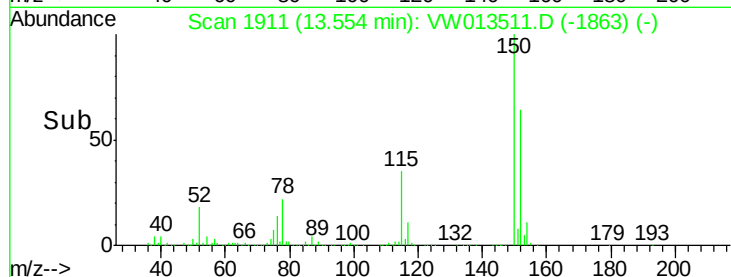
150 156.9 0.0 337.4



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



#76

1,2,3-Trichloropropane

Concen: 53.130 ug/l

RT: 12.62 min Scan# 1757

Delta R.T. -0.15 min

Lab File: VW013511.D

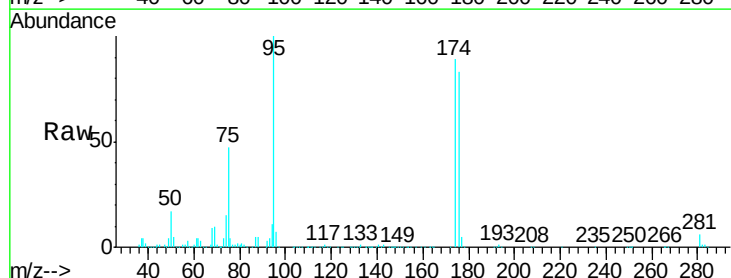
Acq: 09 Oct 2019 18:18

Tgt Ion: 75 Resp: 84663

Ion Ratio Lower Upper

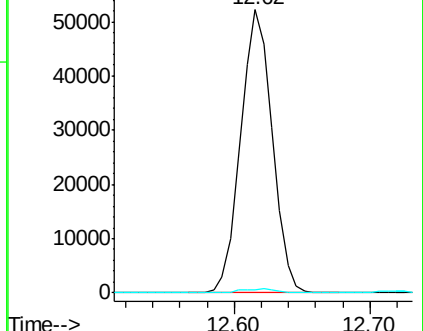
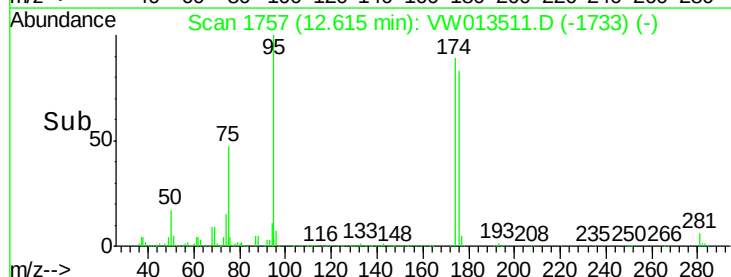
75 100

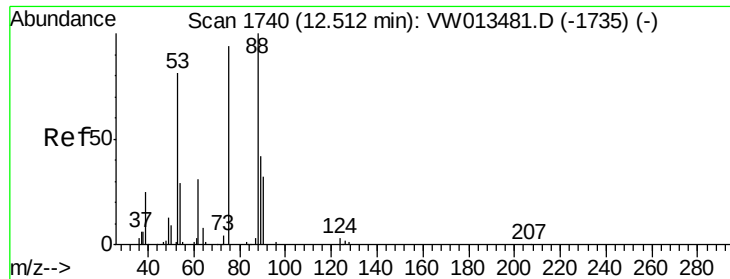
77 1.9 0.0 0.0#



Abundance Ion 74.90 (74.60 to 75.60): VW

Ion 77.00 (76.70 to 77.70): VW





#81

trans-1,4-Dichloro-2-butene

Concen: 108.606 ug/l

RT: 12.62 min Scan# 1757

Delta R.T. 0.10 min

Lab File: VW013511.D

Acq: 09 Oct 2019 18:18

Instrument :

MSVOA_W

ClientSampleId :

20190857-AMENDED-COMP-D

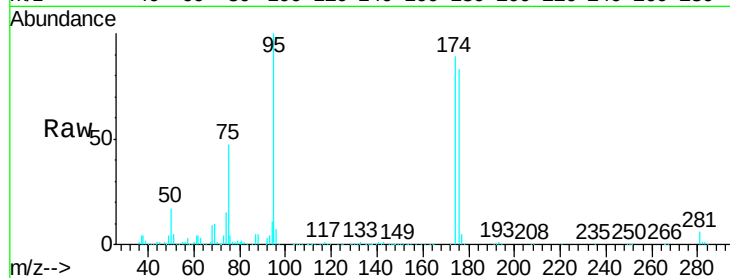
Tgt Ion: 75 Resp: 84663

Ion Ratio Lower Upper

75 100

53 0.0 71.0 106.6#

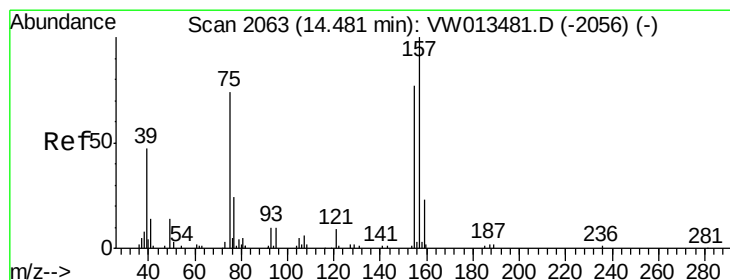
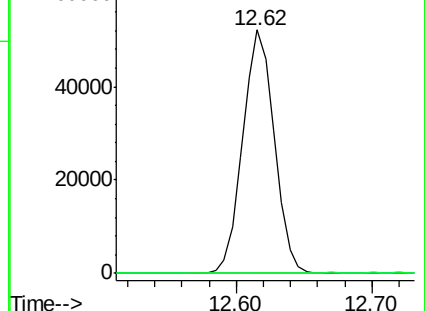
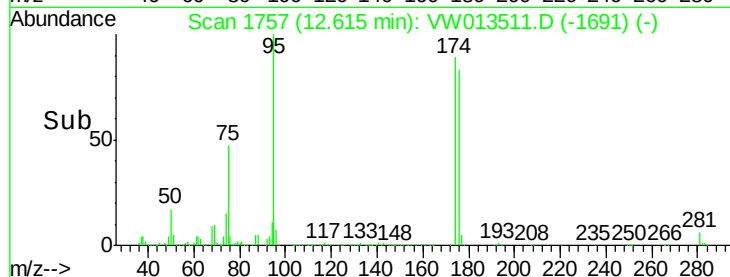
89 0.0 36.1 54.1#



Abundance Ion 74.90 (74.60 to 75.60): VW

Ion 53.00 (52.70 to 53.70): VW

Ion 88.90 (88.60 to 89.60): VW



#92

1,2-Dibromo-3-Chloropropane

Concen: 1.394 ug/l

RT: 14.52 min Scan# 2070

Delta R.T. 0.04 min

Lab File: VW013511.D

Acq: 09 Oct 2019 18:18

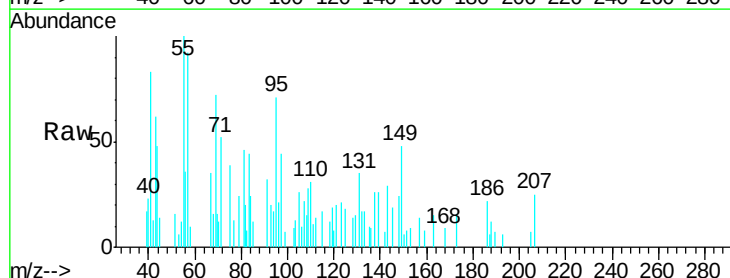
Tgt Ion: 75 Resp: 519

Ion Ratio Lower Upper

75 100

155 0.0 51.0 153.1#

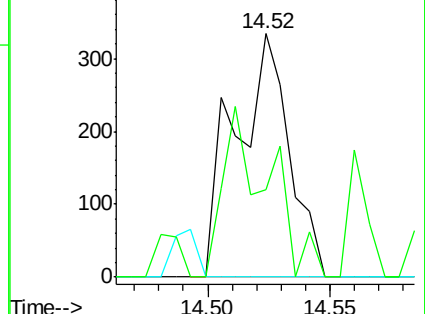
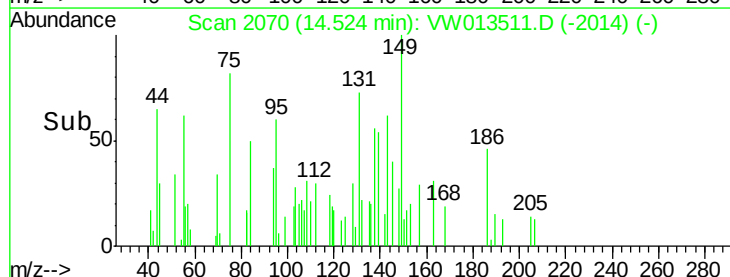
157 58.6 65.9 197.7#

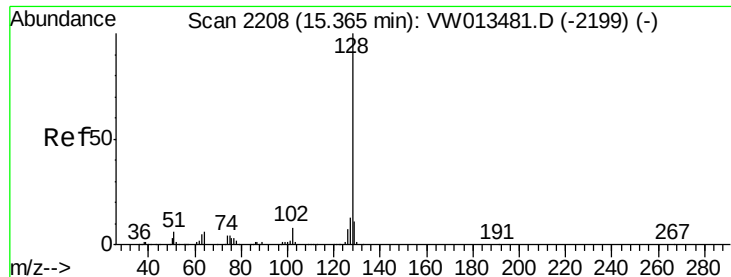


Abundance Ion 74.90 (74.60 to 75.60): VW

Ion 154.80 (154.50 to 155.50): V

Ion 156.80 (156.50 to 157.50): V

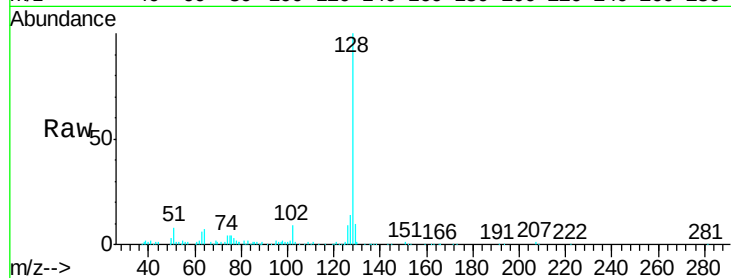




#95
Naphthalene
Concen: 12.107 ug/l
RT: 15.36 min Scan# 2208
Delta R.T. 0.00 min
Lab File: VW013511.D
Acq: 09 Oct 2019 18:18

Instrument :
MSVOA_W
ClientSampleId :
20190857-AMENDED-COMP-D

Tgt Ion:128 Resp: 80497
Ion Ratio Lower Upper
128 100
127 13.4 10.6 16.0
129 11.2 8.8 13.2



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

