

Data File : VW012721.D
Acq On : 07 Sep 2019 16:04
Operator : SY/VA
Sample : K4581-12
Misc : 4.59G/5ML/MSVOA_W/SOIL
ALS Vial : 15 Sample Multiplier: 1

Instrument :
MSVOA_W
ClientSampleId :
T12-D1-(0)

Quant Time: Sep 08 05:11:39 2019
Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_W\METHOD\82W090719S.M
Quant Title : SW846 8260
QLast Update : Sun Sep 08 05:04:40 2019
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	7.95	168	231441	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	8.84	114	363547	50.00	ug/l	0.00
63) Chlorobenzene-d5	11.63	117	295490	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.56	152	112113	50.00	ug/l	0.00

System Monitoring Compounds

33) 1,2-Dichloroethane-d4	8.31	65	141564	54.74	ug/l	0.00
Spiked Amount	50.000		Recovery	=	109.48%	
35) Dibromofluoromethane	7.88	113	106906	49.46	ug/l	0.00
Spiked Amount	50.000		Recovery	=	98.92%	
50) Toluene-d8	10.32	98	431327	50.94	ug/l	0.00
Spiked Amount	50.000		Recovery	=	101.88%	
62) 4-Bromofluorobenzene	12.62	95	125402	40.79	ug/l	0.00
Spiked Amount	50.000		Recovery	=	81.58%	

Target Compounds

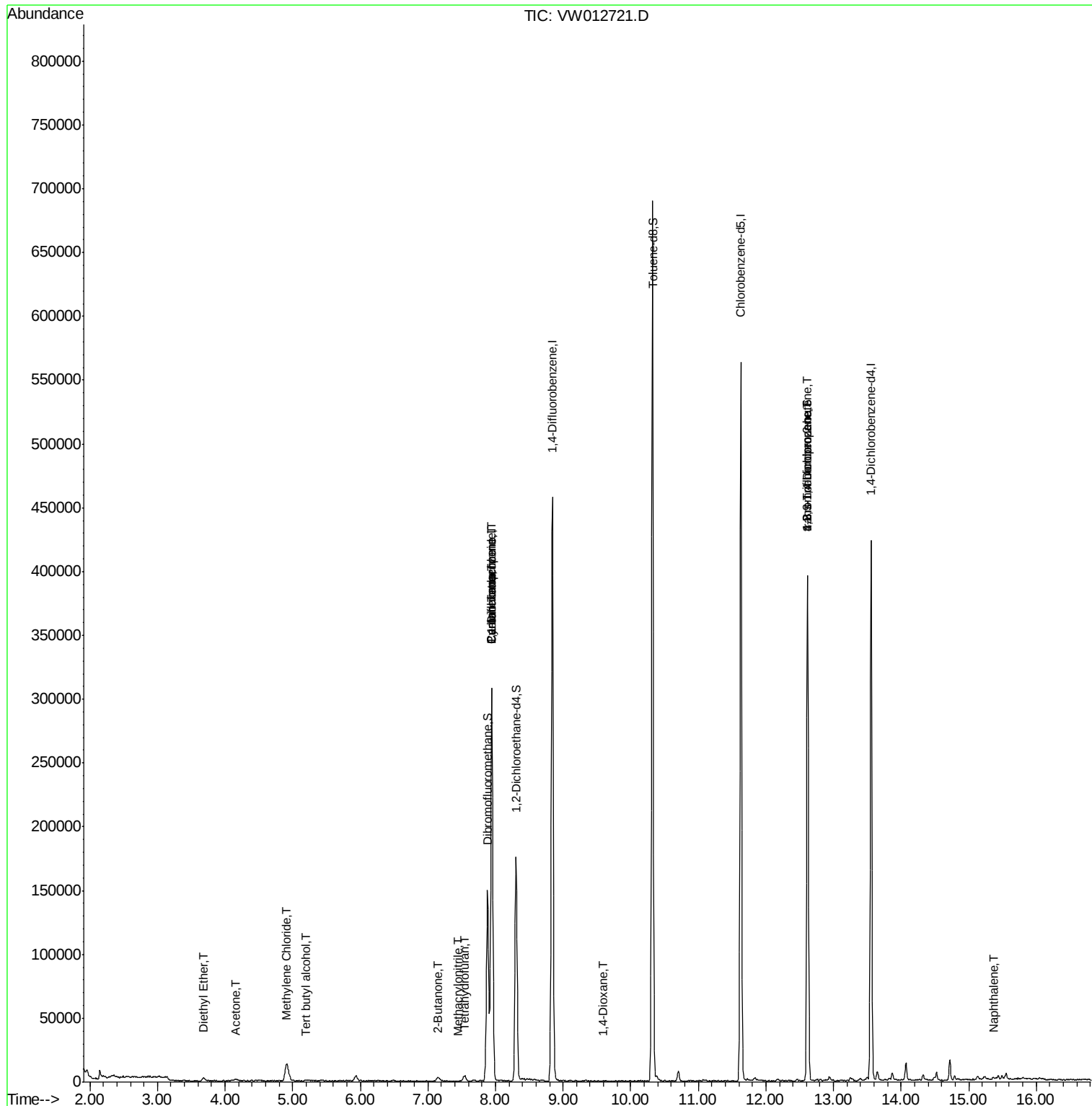
						Qvalue
8) Diethyl Ether	3.68	74	1353	1.248	ug/l	75
11) Tert butyl alcohol	5.18	59	201	1.016	ug/l #	72
16) Acetone	4.15	43	2815	3.993	ug/l #	86
20) Methylene Chloride	4.90	84	4748	2.153	ug/l	92
25) 2-Butanone	7.15	43	351	19.992	ug/l #	53
29) Tetrahydrofuran	7.54	42	4082	7.170	ug/l	94
31) Cyclohexane	7.95	56	5615	1.477	ug/l #	1
36) 1,1-Dichloropropene	7.95	75	18348	5.680	ug/l #	51
38) Carbon Tetrachloride	7.95	117	22822	7.167	ug/l #	17
41) Methacrylonitrile	7.45	41	130	3.925	ug/l #	51
49) 1,4-Dioxane	9.60	88	44	1.892	ug/l #	17
76) 1,2,3-Trichloropropane	12.62	75	66327	57.857	ug/l #	100
81) trans-1,4-Dichloro-2-buten	12.62	75	66327	122.370	ug/l #	6
95) Naphthalene	15.37	128	1415	4.713	ug/l	96

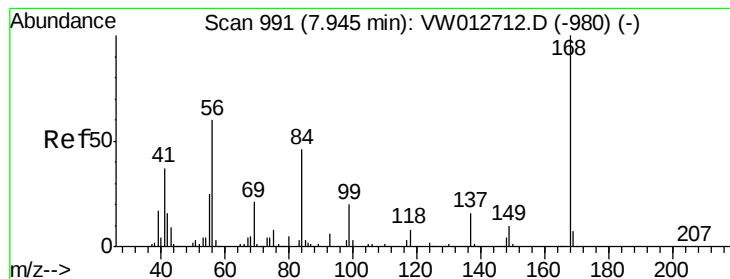
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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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: VW012721.D

Acq: 07 Sep 2019 16:04

Instrument :

MSVOA_W

ClientSampleId :

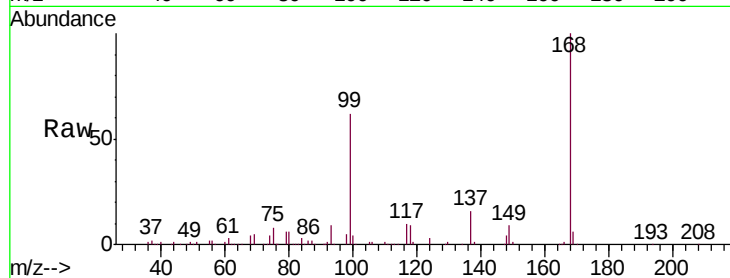
T12-D1-(0)

Tgt Ion:168 Resp: 231441

Ion Ratio Lower Upper

168 100

99 62.1 47.8 71.6



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VW

7.95

100000

80000

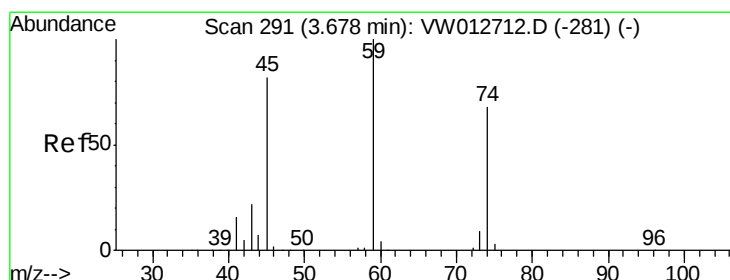
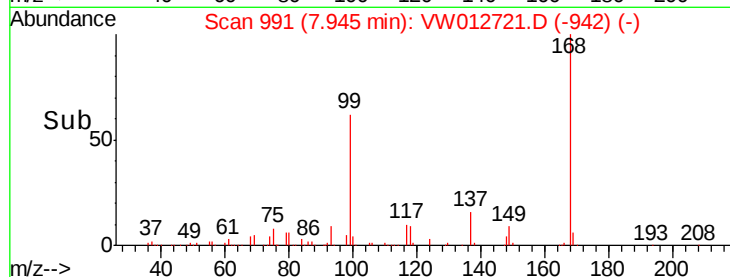
60000

40000

20000

0

Time-->



#8

Diethyl Ether

Concen: 1.248 ug/l

RT: 3.68 min Scan# 292

Delta R.T. 0.01 min

Lab File: VW012721.D

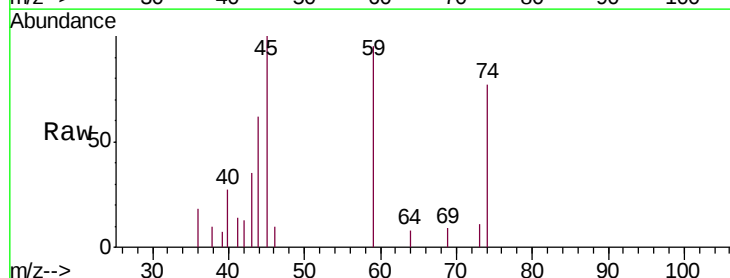
Acq: 07 Sep 2019 16:04

Tgt Ion: 74 Resp: 1353

Ion Ratio Lower Upper

74 100

45 145.2 58.8 176.4



Abundance Ion 74.00 (73.70 to 74.70): VW

Ion 45.00 (44.70 to 45.70): VW

3.68

800

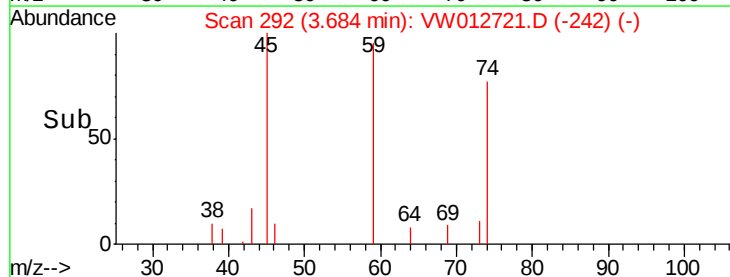
600

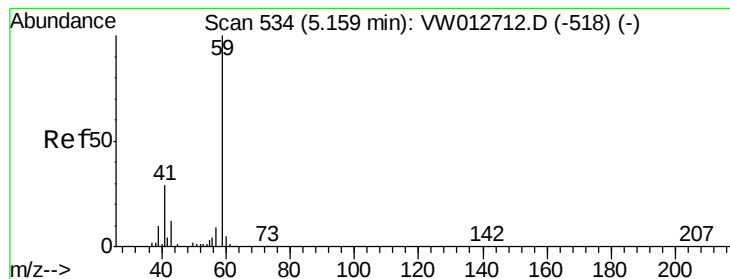
400

200

0

Time-->





#11

Tert butyl alcohol

Concen: 1.016 ug/l

RT: 5.18 min Scan# 538

Delta R.T. 0.02 min

Lab File: VW012721.D

Acq: 07 Sep 2019 16:04

Instrument :

MSVOA_W

ClientSampled :

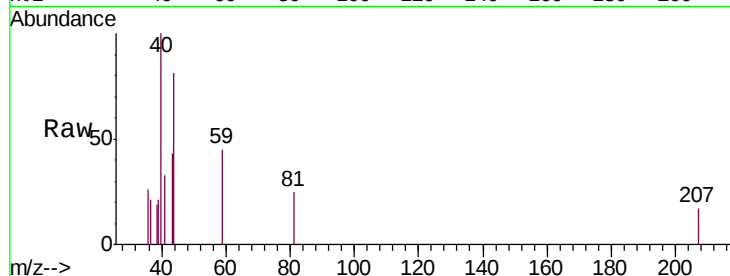
T12-D1-(0)

Tgt Ion: 59 Resp: 201

Ion Ratio Lower Upper

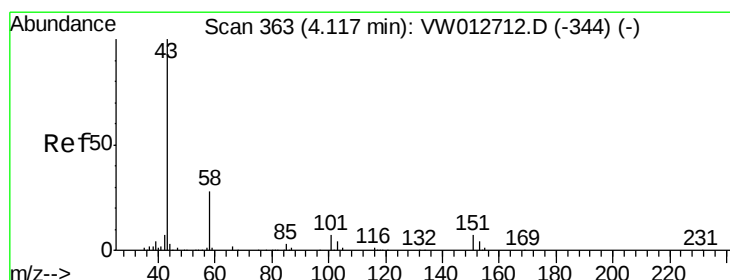
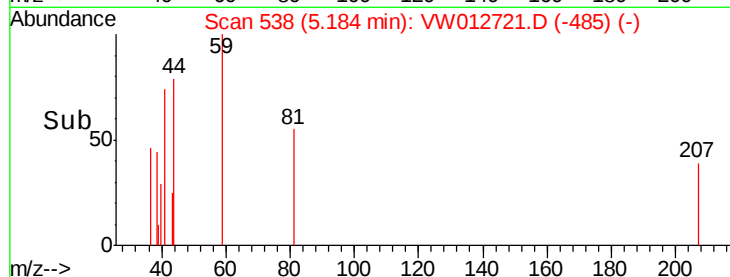
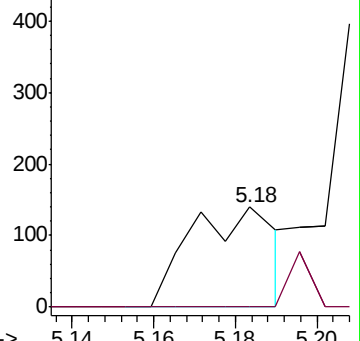
59 100

57 0.0 8.2 12.4#



Abundance Ion 59.00 (58.70 to 59.70): VW

Ion 57.00 (56.70 to 57.70): VW



#16

Acetone

Concen: 3.993 ug/l

RT: 4.15 min Scan# 369

Delta R.T. 0.04 min

Lab File: VW012721.D

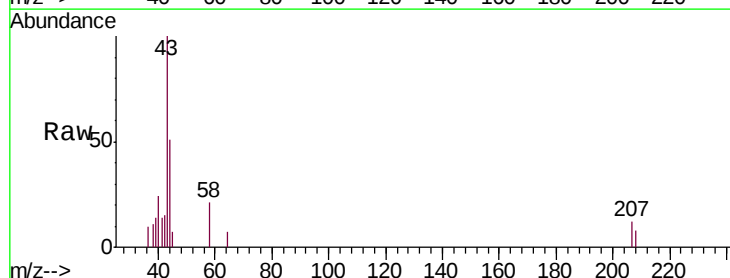
Acq: 07 Sep 2019 16:04

Tgt Ion: 43 Resp: 2815

Ion Ratio Lower Upper

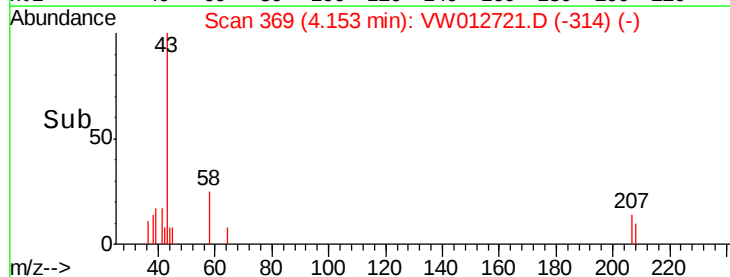
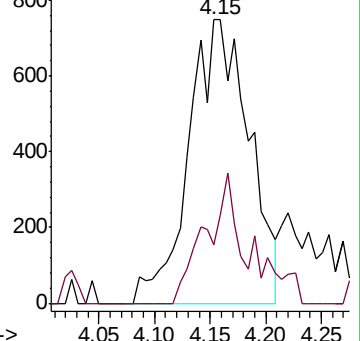
43 100

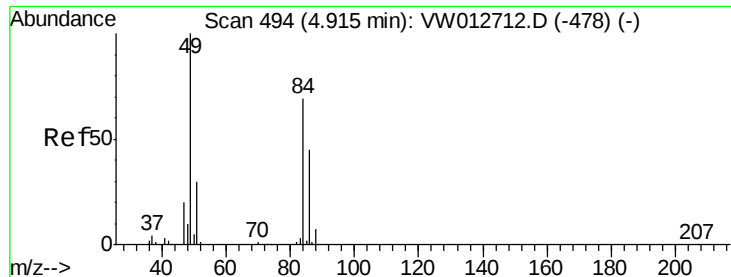
58 20.7 22.6 33.8#



Abundance Ion 43.00 (42.70 to 43.70): VW

Ion 58.00 (57.70 to 58.70): VW

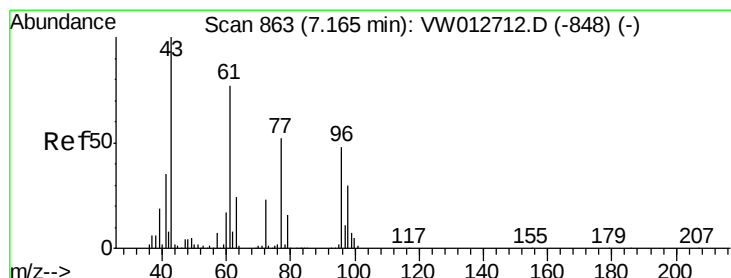
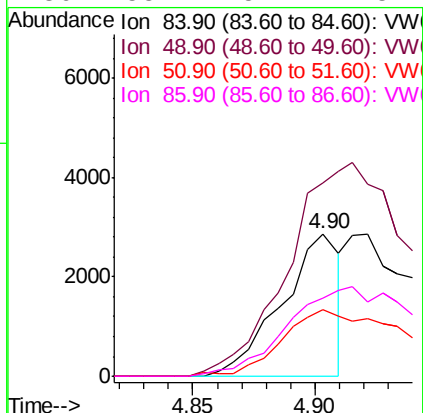
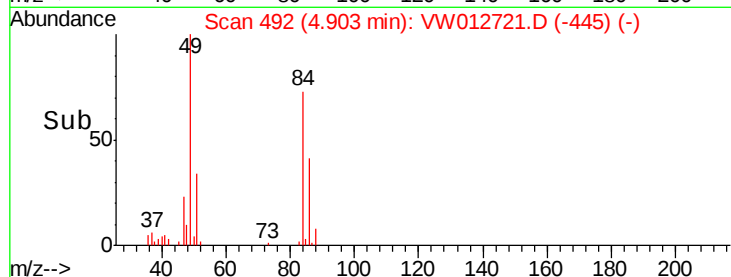
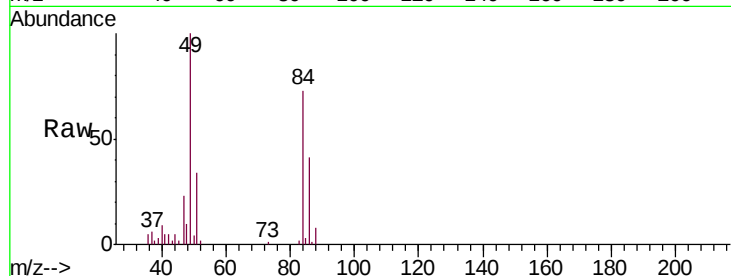




#20
Methylene Chloride
Concen: 2.153 ug/l
RT: 4.90 min Scan# 492
Delta R.T. -0.01 min
Lab File: VW012721.D
Acq: 07 Sep 2019 16:04

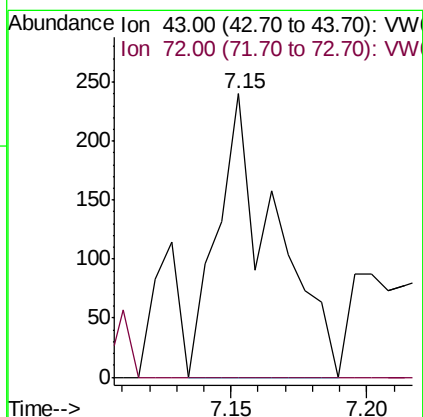
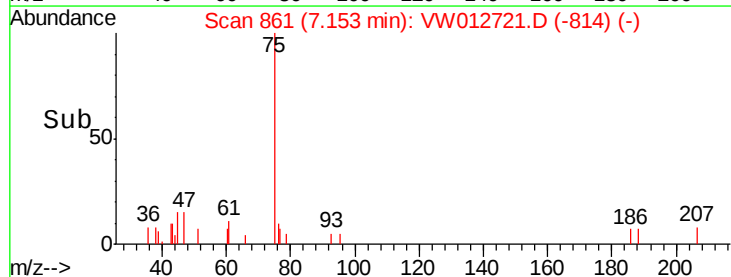
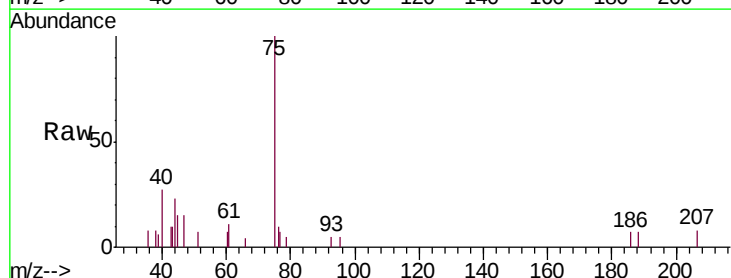
Instrument :
MSVOA_W
ClientSampleId :
T12-D1-(0)

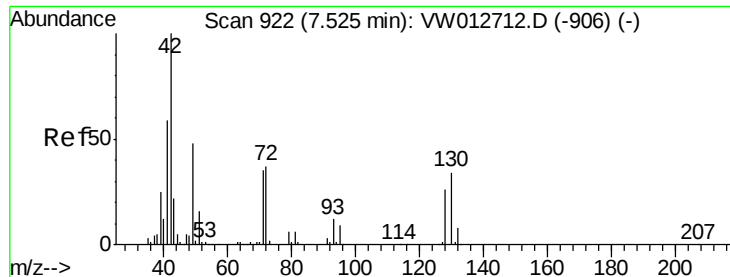
Tgt Ion: 84 Resp: 4748
Ion Ratio Lower Upper
84 100
49 136.2 115.4 173.0
51 46.8 34.9 52.3
86 55.2 52.2 78.4



#25
2-Butanone
Concen: 19.992 ug/l
RT: 7.15 min Scan# 861
Delta R.T. -0.01 min
Lab File: VW012721.D
Acq: 07 Sep 2019 16:04

Tgt Ion: 43 Resp: 351
Ion Ratio Lower Upper
43 100
72 0.0 18.0 27.0#

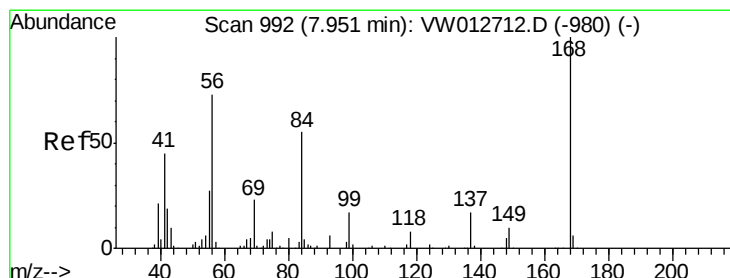
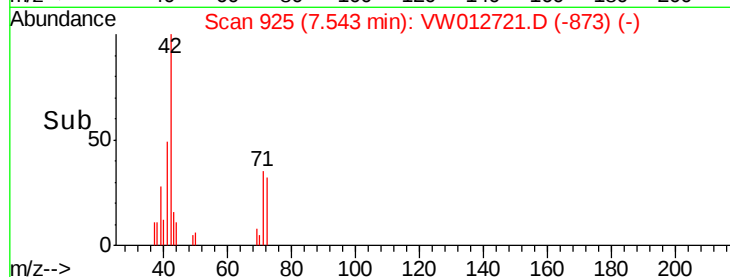
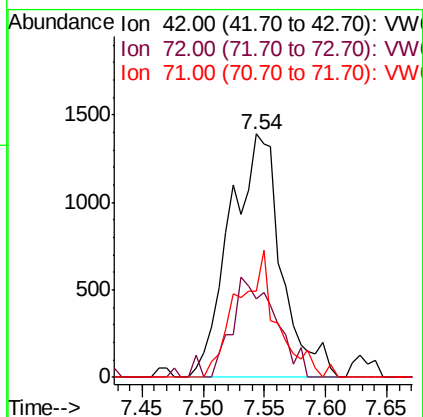
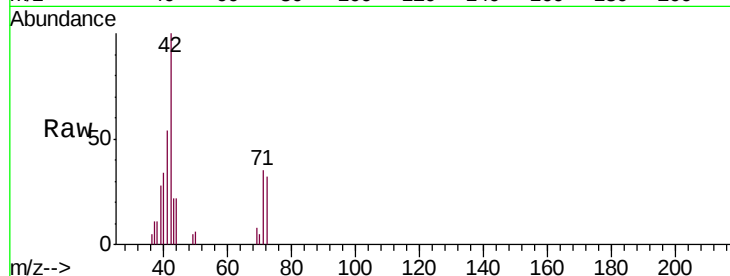




#29
Tetrahydrofuran
Concen: 7.170 ug/l
RT: 7.54 min Scan# 925
Delta R.T. 0.02 min
Lab File: VW012721.D
Acq: 07 Sep 2019 16:04

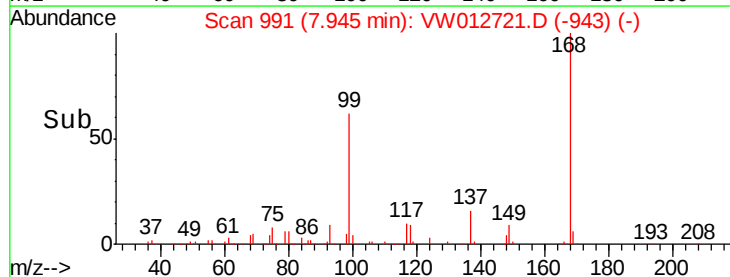
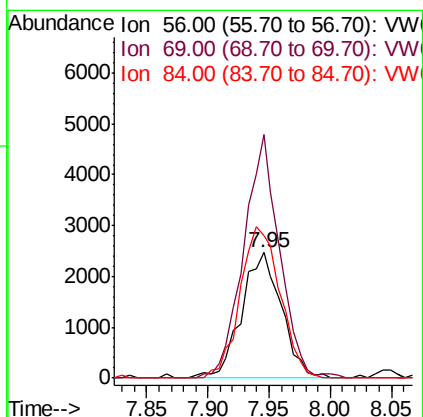
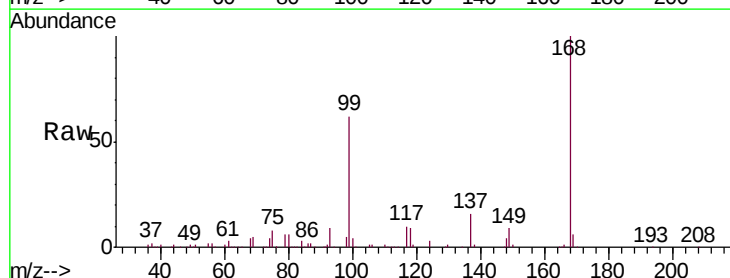
Instrument :
MSVOA_W
ClientSampleId :
T12-D1-(0)

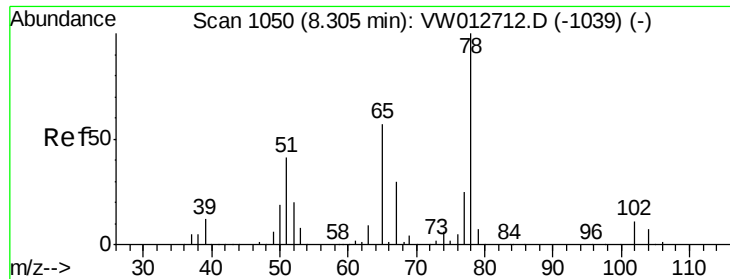
Tgt Ion: 42 Resp: 4082
Ion Ratio Lower Upper
42 100
72 34.6 28.4 42.6
71 39.7 27.1 40.7



#31
Cyclohexane
Concen: 1.477 ug/l
RT: 7.95 min Scan# 991
Delta R.T. -0.01 min
Lab File: VW012721.D
Acq: 07 Sep 2019 16:04

Tgt Ion: 56 Resp: 5615
Ion Ratio Lower Upper
56 100
69 194.4 25.7 38.5#
84 113.4 60.4 90.6#

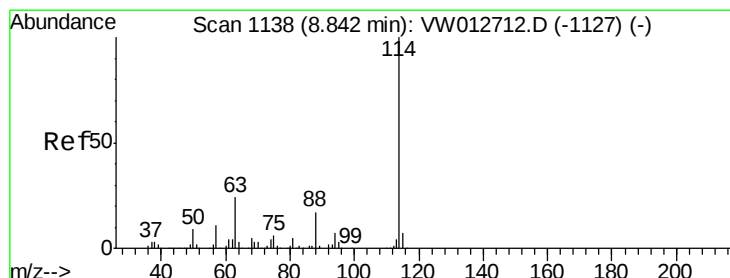
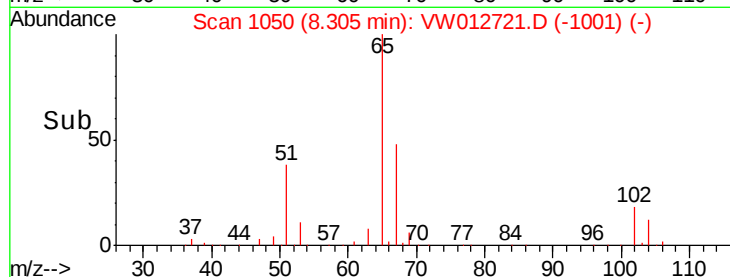
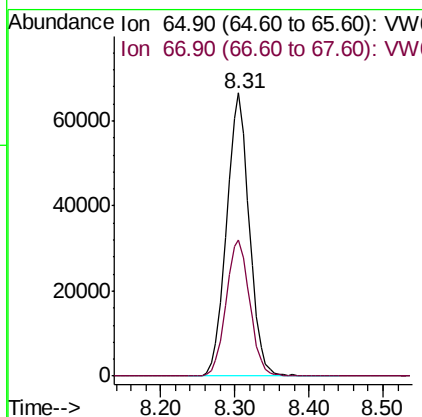
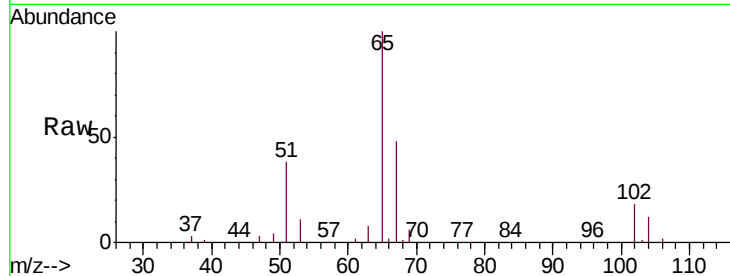




#33
 1,2-Dichloroethane-d4
 Concen: 54.743 ug/l
 RT: 8.31 min Scan# 1050
 Delta R.T. -0.00 min
 Lab File: VW012721.D
 Acq: 07 Sep 2019 16:04

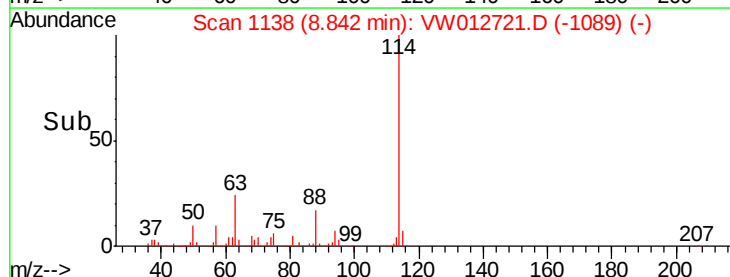
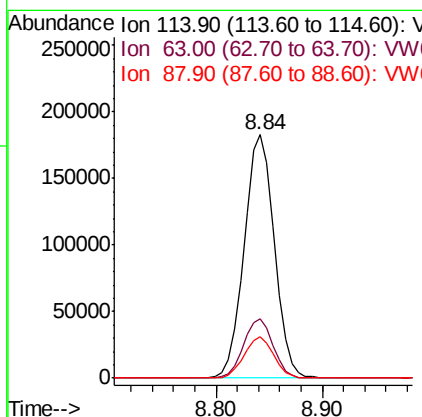
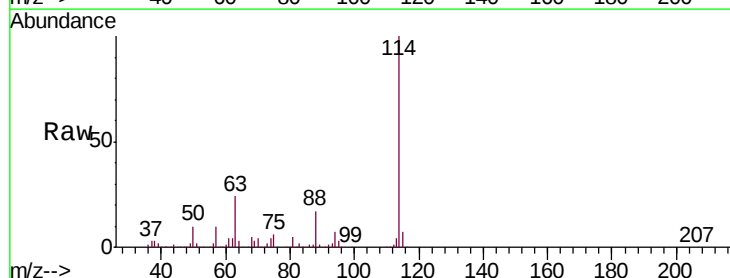
Instrument :
 MSVOA_W
 ClientSampleId :
 T12-D1-(0)

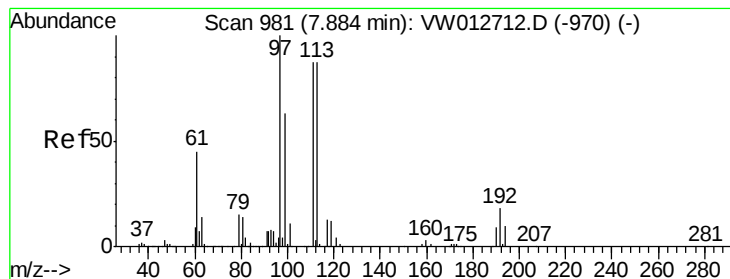
Tgt Ion: 65 Resp: 141564
 Ion Ratio Lower Upper
 65 100
 67 50.1 0.0 101.8



#34
 1,4-Difluorobenzene
 Concen: 50.000 ug/l
 RT: 8.84 min Scan# 1138
 Delta R.T. -0.00 min
 Lab File: VW012721.D
 Acq: 07 Sep 2019 16:04

Tgt Ion: 114 Resp: 363547
 Ion Ratio Lower Upper
 114 100
 63 24.1 0.0 47.2
 88 17.0 0.0 34.0





#35

Dibromofluoromethane

Concen: 49.462 ug/l

RT: 7.88 min Scan# 981

Delta R.T. -0.00 min

Lab File: VW012721.D

Acq: 07 Sep 2019 16:04

Instrument :

MSVOA_W

ClientSampleId :

T12-D1-(0)

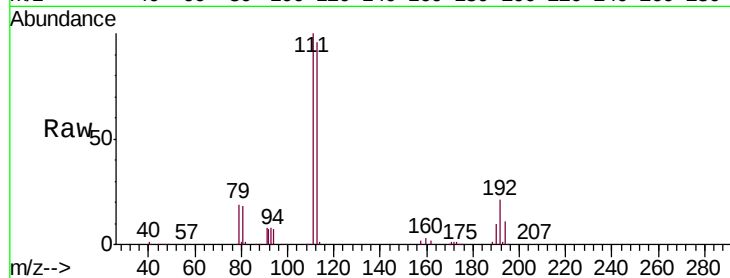
Tgt Ion:113 Resp: 106906

Ion Ratio Lower Upper

113 100

111 102.9 80.2 120.4

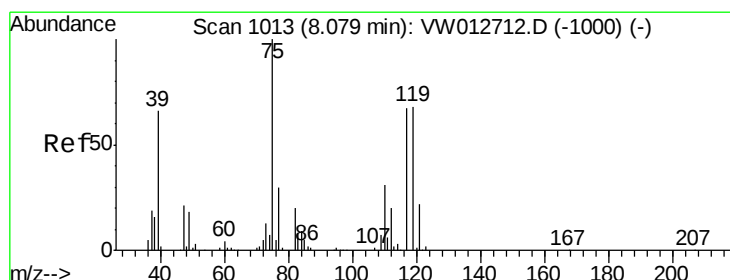
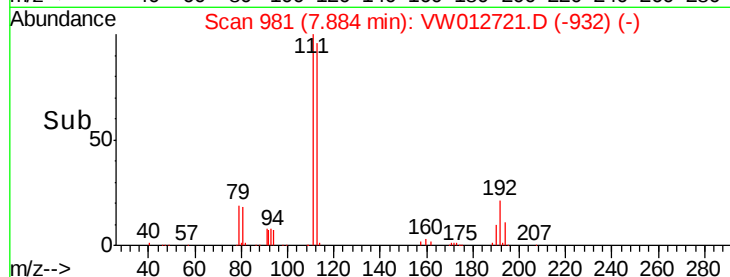
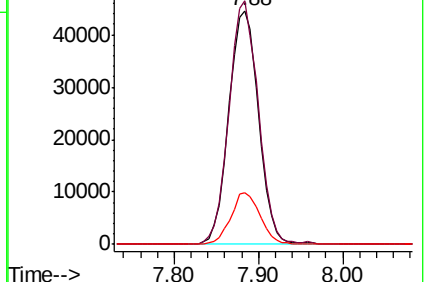
192 21.5 17.3 25.9



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: 5.680 ug/l

RT: 7.95 min Scan# 991

Delta R.T. -0.13 min

Lab File: VW012721.D

Acq: 07 Sep 2019 16:04

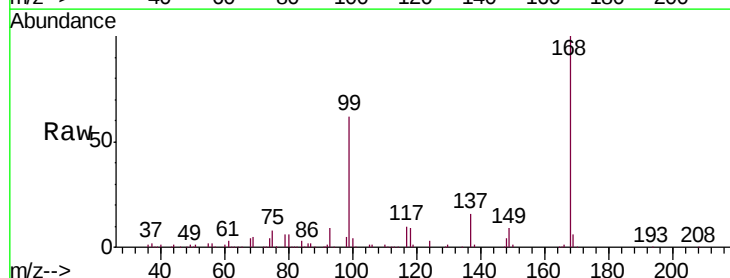
Tgt Ion: 75 Resp: 18348

Ion Ratio Lower Upper

75 100

110 9.2 15.9 47.7#

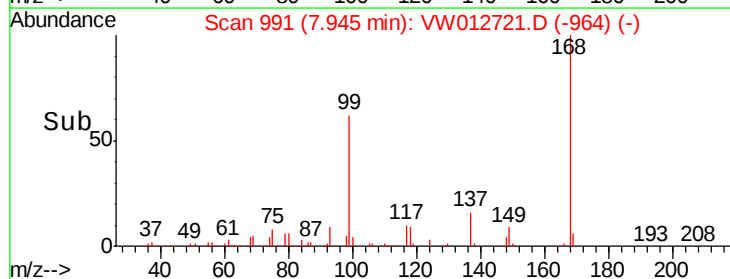
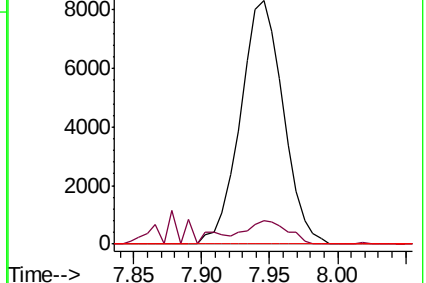
77 0.0 25.0 37.4#

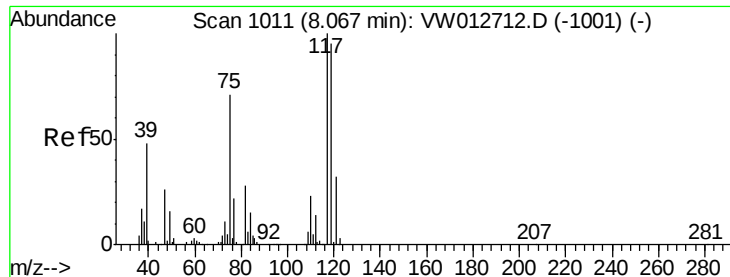


Abundance Ion 74.90 (74.60 to 75.60): VW

Ion 109.90 (109.60 to 110.60): V

Ion 76.90 (76.60 to 77.60): VW





#38

Carbon Tetrachloride

Concen: 7.167 ug/l

RT: 7.95 min Scan# 991

Delta R.T. -0.12 min

Lab File: VW012721.D

Acq: 07 Sep 2019 16:04

Instrument :

MSVOA_W

ClientSampleId :

T12-D1-(0)

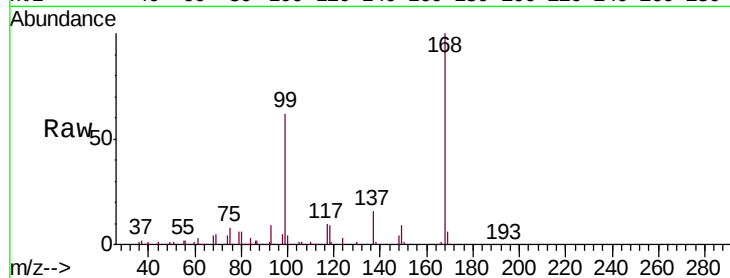
Tgt Ion:117 Resp: 22822

Ion Ratio Lower Upper

117 100

119 6.6 76.2 114.2#

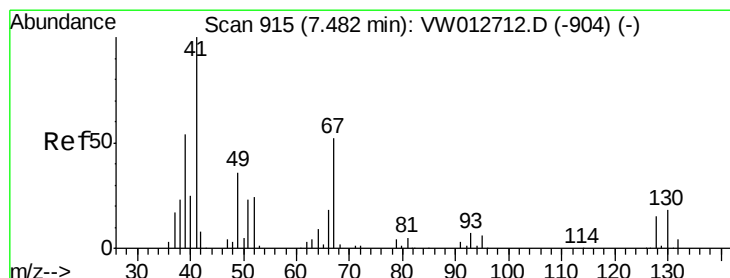
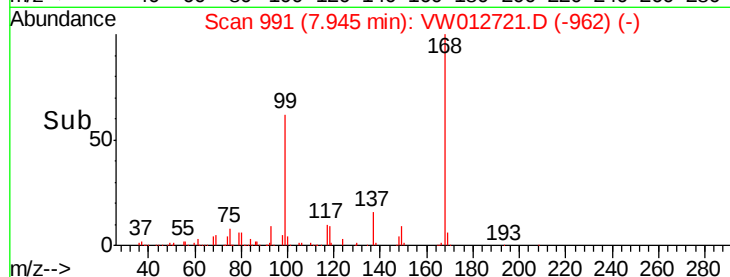
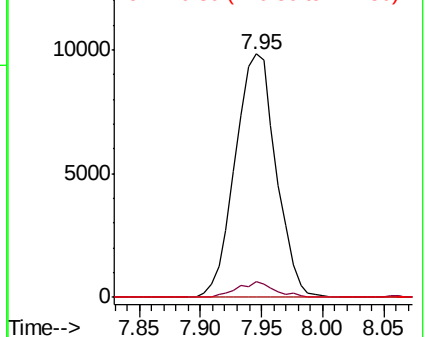
121 0.0 25.4 38.2#



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



#41

Methacrylonitrile

Concen: 3.925 ug/l

RT: 7.45 min Scan# 909

Delta R.T. -0.04 min

Lab File: VW012721.D

Acq: 07 Sep 2019 16:04

Tgt Ion: 41 Resp: 130

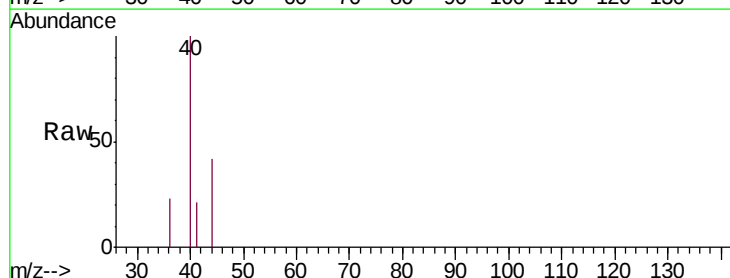
Ion Ratio Lower Upper

41 100

39 42.3 47.5 71.3#

67 0.0 45.1 67.7#

52 0.0 20.2 30.2#

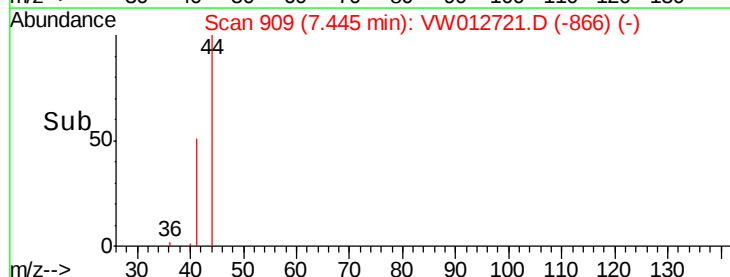
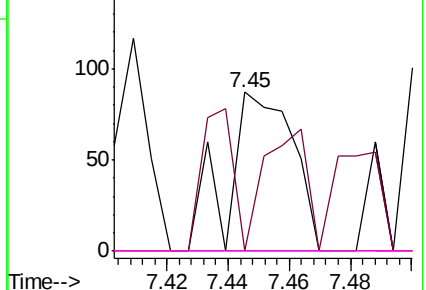


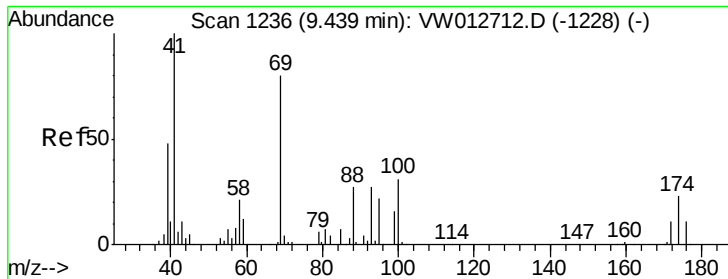
Abundance Ion 41.00 (40.70 to 41.70): VW

Ion 39.00 (38.70 to 39.70): VW

Ion 67.00 (66.70 to 67.70): VW

Ion 52.00 (51.70 to 52.70): VW

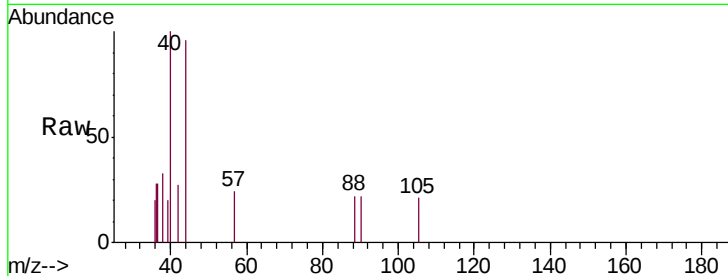




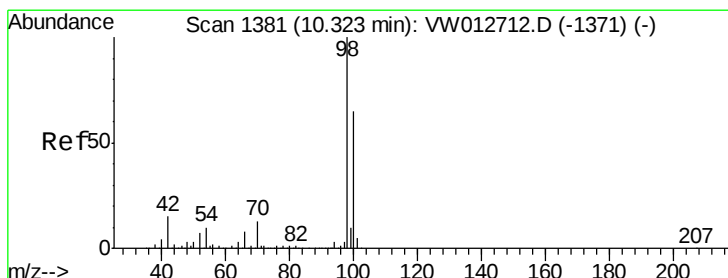
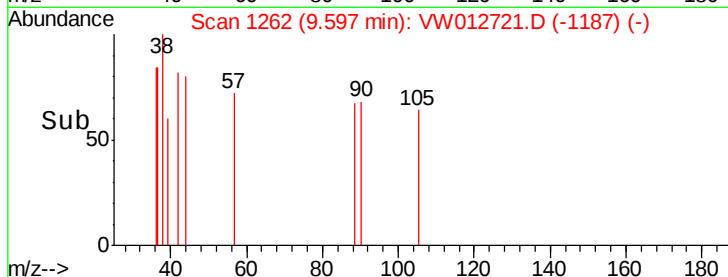
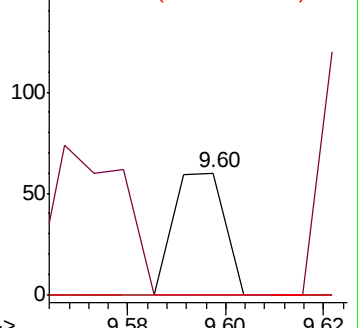
#49
 1,4-Dioxane
 Concen: 1.892 ug/l
 RT: 9.60 min Scan# 1262
 Delta R.T. 0.16 min
 Lab File: VW012721.D
 Acq: 07 Sep 2019 16:04

Instrument :
 MSVOA_W
 ClientSampleId :
 T12-D1-(0)

Tgt Ion: 88 Resp: 44
 Ion Ratio Lower Upper
 88 100
 43 0.0 34.8 52.2#
 58 0.0 64.1 96.1#

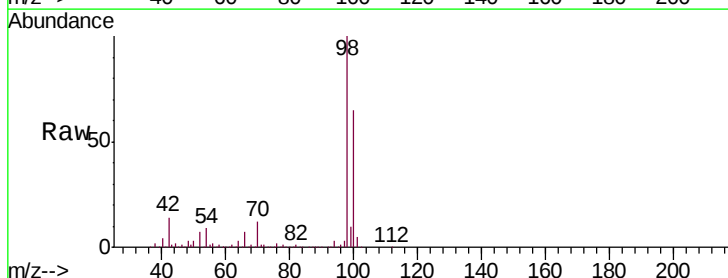


Abundance Ion 88.00 (87.70 to 88.70): VW
 Ion 43.00 (42.70 to 43.70): VW
 Ion 58.00 (57.70 to 58.70): VW

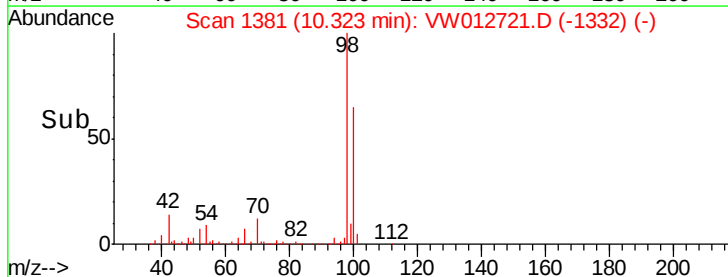
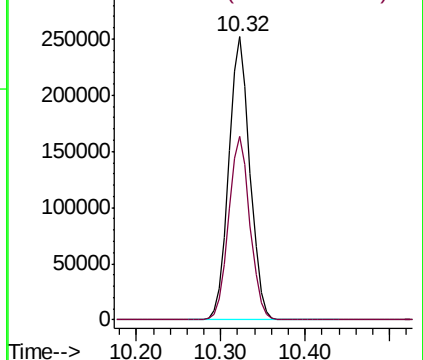


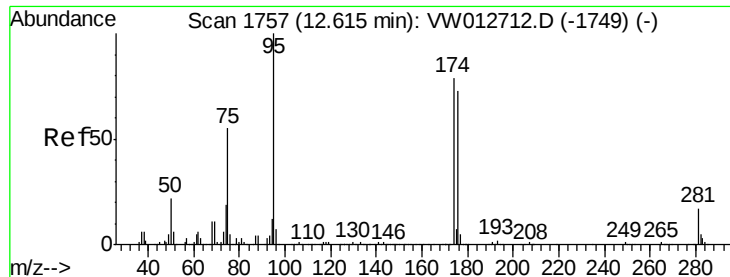
#50
 Toluene-d8
 Concen: 50.937 ug/l
 RT: 10.32 min Scan# 1381
 Delta R.T. -0.00 min
 Lab File: VW012721.D
 Acq: 07 Sep 2019 16:04

Tgt Ion: 98 Resp: 431327
 Ion Ratio Lower Upper
 98 100
 100 65.0 52.2 78.4



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





#62

4-Bromofluorobenzene

Concen: 40.793 ug/l

RT: 12.62 min Scan# 1757

Delta R.T. -0.00 min

Lab File: VW012721.D

Acq: 07 Sep 2019 16:04

Instrument :

MSVOA_W

ClientSampleId :

T12-D1-(0)

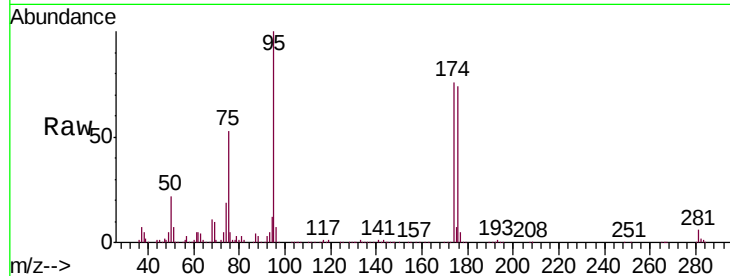
Tgt Ion: 95 Resp: 125402

Ion Ratio Lower Upper

95 100

174 79.8 0.0 161.0

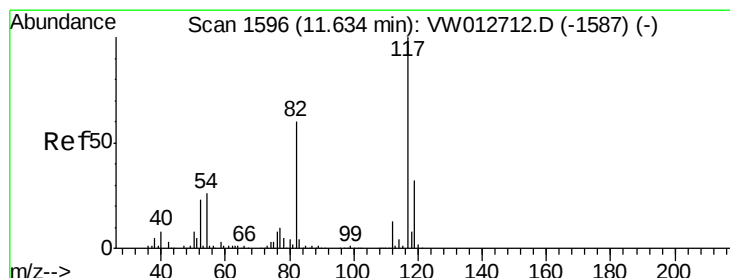
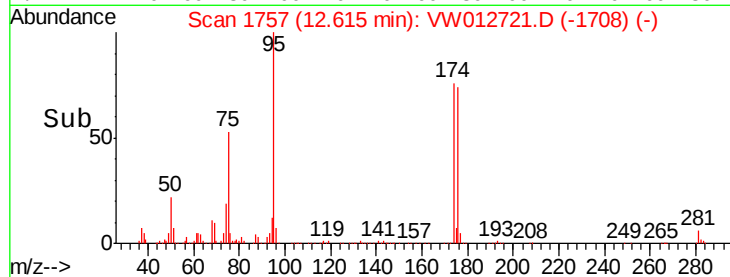
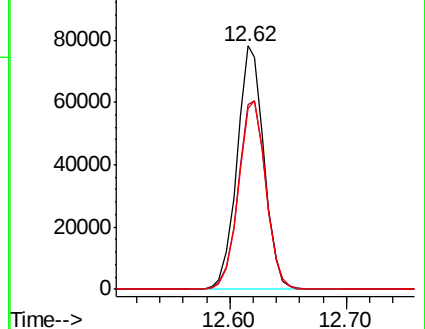
176 78.7 0.0 156.4



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: VW012721.D

Acq: 07 Sep 2019 16:04

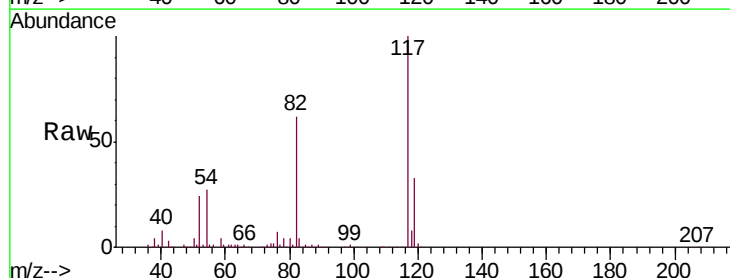
Tgt Ion: 117 Resp: 295490

Ion Ratio Lower Upper

117 100

82 61.7 48.2 72.4

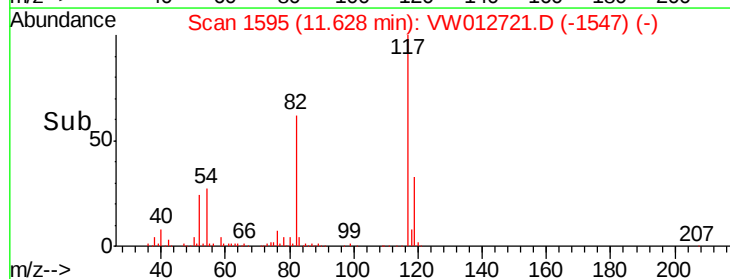
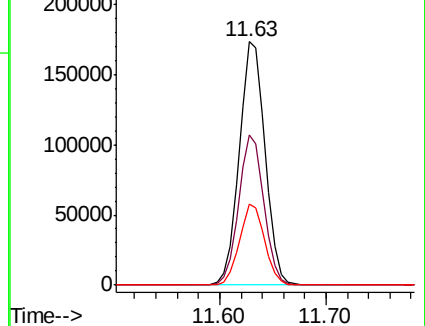
119 33.1 25.8 38.6

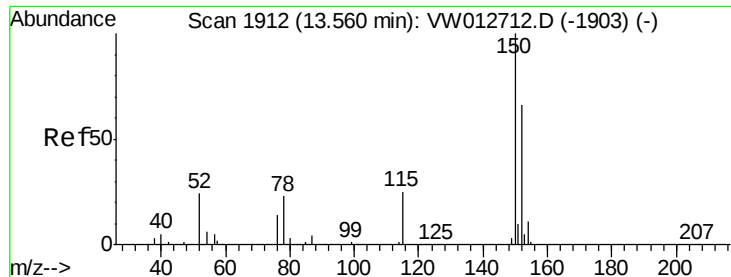


Abundance Ion 116.90 (116.60 to 117.60): VW

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: 13.56 min Scan# 1912

Delta R.T. -0.00 min

Lab File: VW012721.D

Acq: 07 Sep 2019 16:04

Instrument :

MSVOA_W

ClientSampleId :

T12-D1-(0)

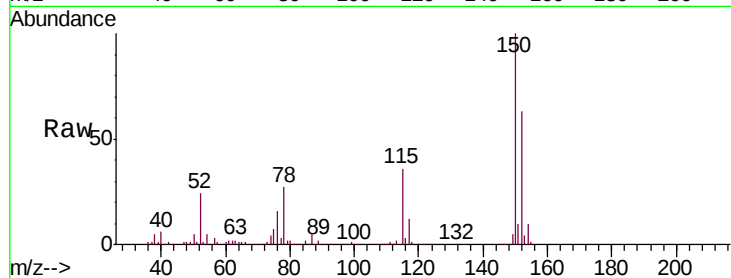
Tgt Ion:152 Resp: 112113

Ion Ratio Lower Upper

152 100

115 58.8 30.0 90.1

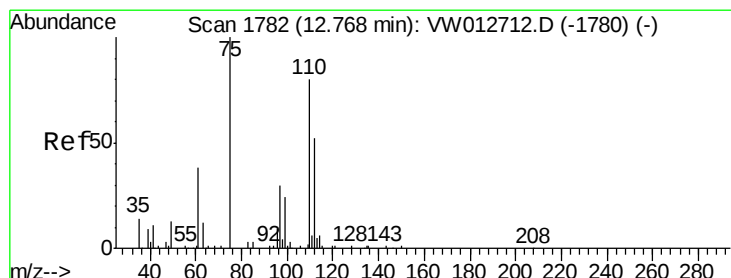
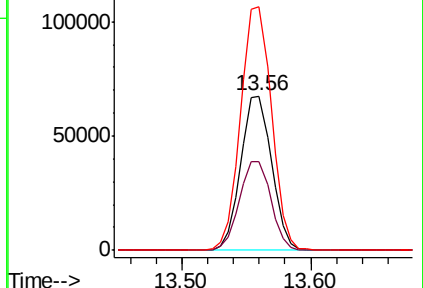
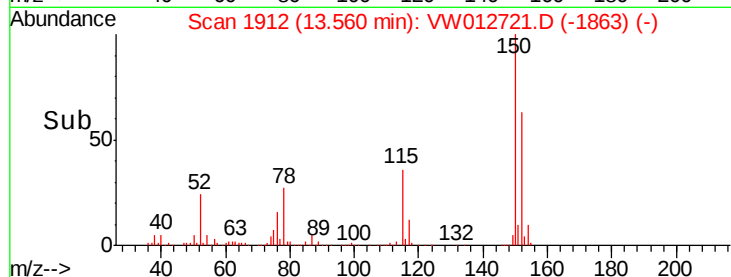
150 158.0 0.0 349.0



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: 57.857 ug/l

RT: 12.62 min Scan# 1757

Delta R.T. -0.15 min

Lab File: VW012721.D

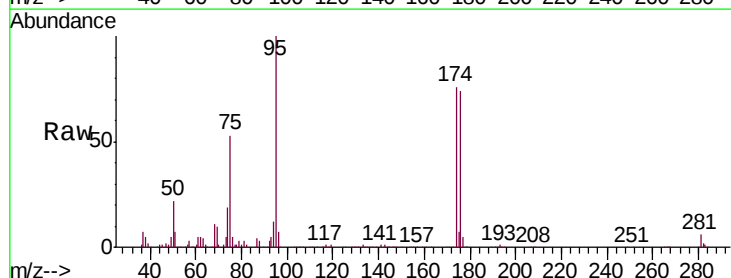
Acq: 07 Sep 2019 16:04

Tgt Ion: 75 Resp: 66327

Ion Ratio Lower Upper

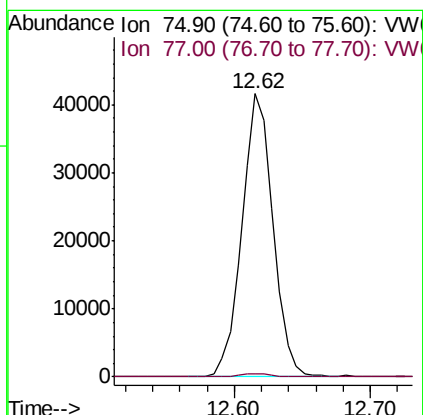
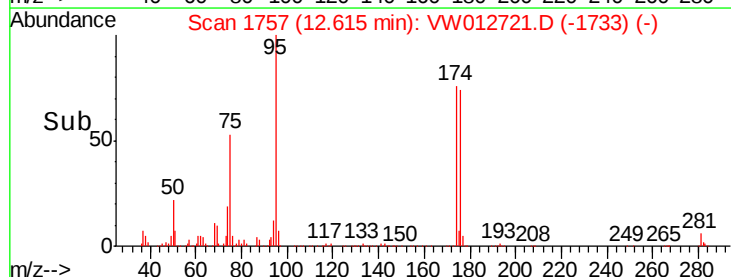
75 100

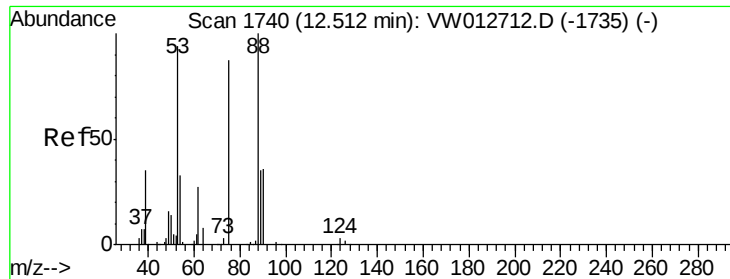
77 1.0 0.0 0.0#



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: 122.370 ug/l

RT: 12.62 min Scan# 1757

Delta R.T. 0.10 min

Lab File: VW012721.D

Acq: 07 Sep 2019 16:04

Instrument :

MSVOA_W

ClientSampleId :

T12-D1-(0)

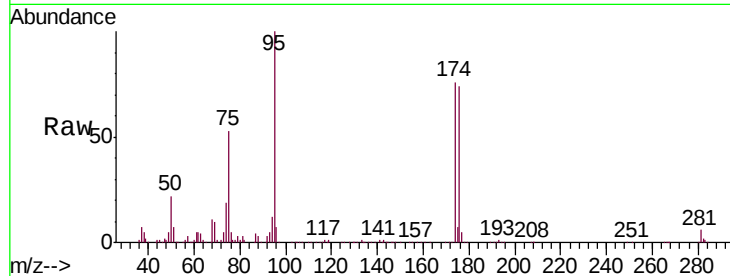
Tgt Ion: 75 Resp: 66327

Ion Ratio Lower Upper

75 100

53 0.2 87.6 131.4#

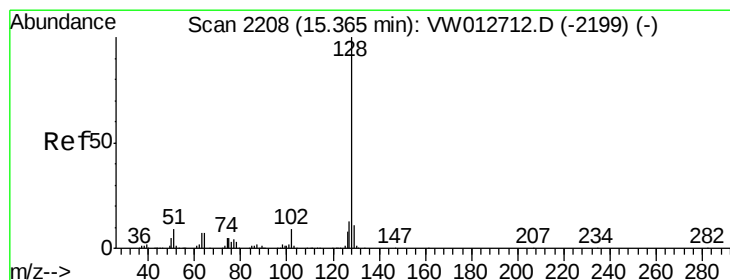
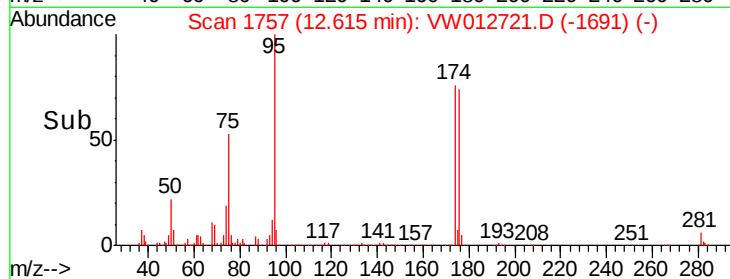
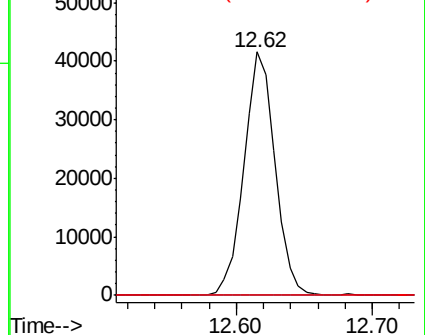
89 0.1 35.5 53.3#



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



#95

Naphthalene

Concen: 4.713 ug/l

RT: 15.37 min Scan# 2209

Delta R.T. 0.01 min

Lab File: VW012721.D

Acq: 07 Sep 2019 16:04

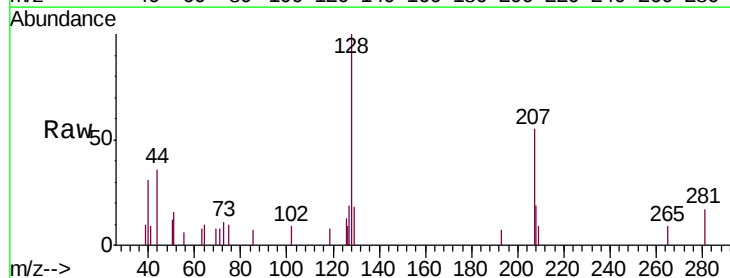
Tgt Ion: 128 Resp: 1415

Ion Ratio Lower Upper

128 100

127 16.0 10.7 16.1

129 10.3 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

