

Data File : VW012015.D
Acq On : 20 Aug 2019 02:30
Operator : SY/VA
Sample : K4096-04
Misc : 5.41G/5ML/MSVOA_W/SOIL
ALS Vial : 42 Sample Multiplier: 1

Instrument :
MSVOA_W
ClientSampleId :
TR-05-081919

Quant Time: Aug 20 05:17:18 2019
Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_W\METHOD\82W072719S.M
Quant Title : SW846 8260
QLast Update : Sat Jul 27 00:23:30 2019
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	7.95	168	287386	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	8.84	114	483732	50.00	ug/l	0.00
63) Chlorobenzene-d5	11.63	117	378127	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.56	152	127193	50.00	ug/l	0.00

System Monitoring Compounds

33) 1,2-Dichloroethane-d4	8.31	65	181011	54.85	ug/l	0.00
Spiked Amount	50.000		Recovery	=	109.70%	
35) Dibromofluoromethane	7.88	113	145748	53.71	ug/l	0.00
Spiked Amount	50.000		Recovery	=	107.42%	
50) Toluene-d8	10.32	98	578494	52.06	ug/l	0.00
Spiked Amount	50.000		Recovery	=	104.12%	
62) 4-Bromofluorobenzene	12.62	95	167620	42.31	ug/l	0.00
Spiked Amount	50.000		Recovery	=	84.62%	

Target Compounds

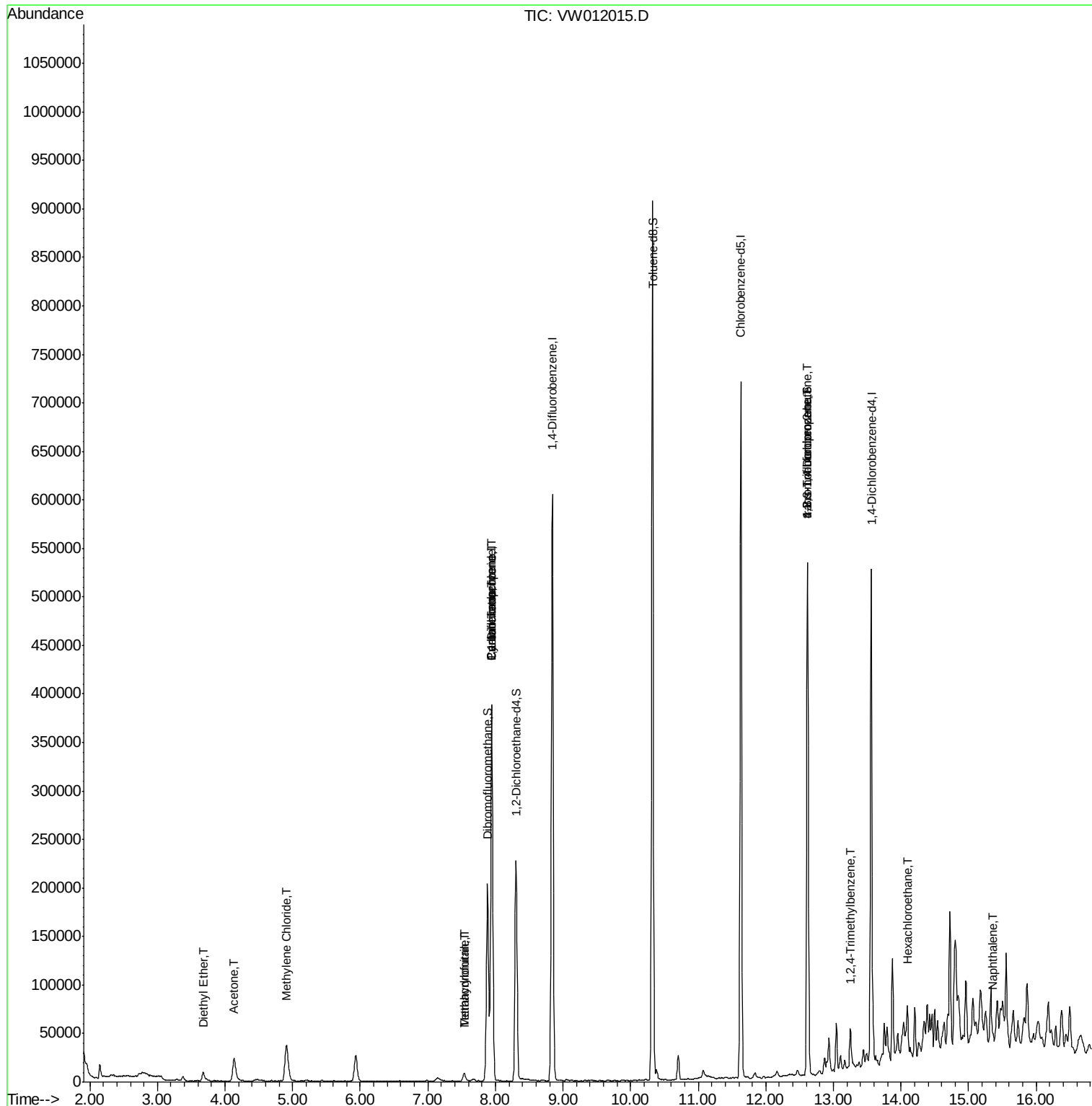
					Qvalue	
8) Diethyl Ether	3.68	74	4557	2.690	ug/l	91
11) Tert butyl alcohol	5.20	59	562	Below Cal	#	78
16) Acetone	4.14	43	49749	47.393	ug/l	99
20) Methylene Chloride	4.91	84	28006	7.736	ug/l	99
29) Tetrahydrofuran	7.54	42	8183	10.422	ug/l	99
31) Cyclohexane	7.95	56	6721	1.089	ug/l #	1
36) 1,1-Dichloropropene	7.94	75	23852	4.742	ug/l #	52
38) Carbon Tetrachloride	7.95	117	28505	6.620	ug/l #	16
41) Methacrylonitrile	7.54	41	4902	2.834	ug/l #	52
76) 1,2,3-Trichloropropane	12.62	75	88012	65.395	ug/l #	100
81) trans-1,4-Dichloro-2-buten	12.62	75	88012	150.713	ug/l #	6
84) 1,2,4-Trimethylbenzene	13.25	105	22779	2.843	ug/l	98
90) Hexachloroethane	14.10	117	2591	1.702	ug/l #	10
95) Naphthalene	15.36	128	2013	2.450	ug/l #	78

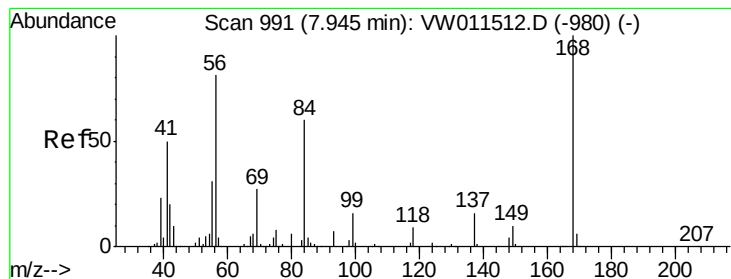
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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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: VW012015.D

Acq: 20 Aug 2019 02:30

Instrument :

MSVOA_W

ClientSampleId :

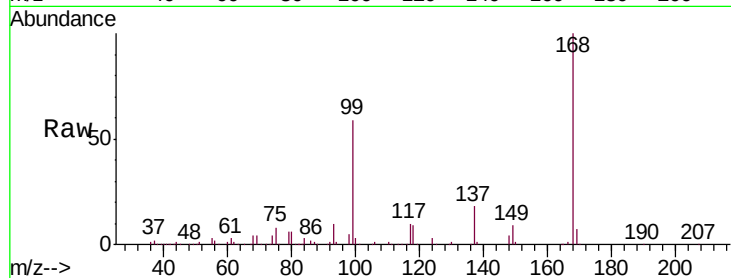
TR-05-081919

Tgt Ion:168 Resp: 287386

Ion Ratio Lower Upper

168 100

99 59.5 48.2 72.4



Abundance Ion 167.90 (167.60 to 168.60): VW

Ion 98.90 (98.60 to 99.60): VW

7.95

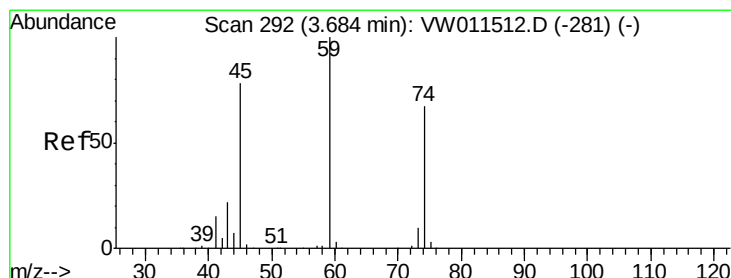
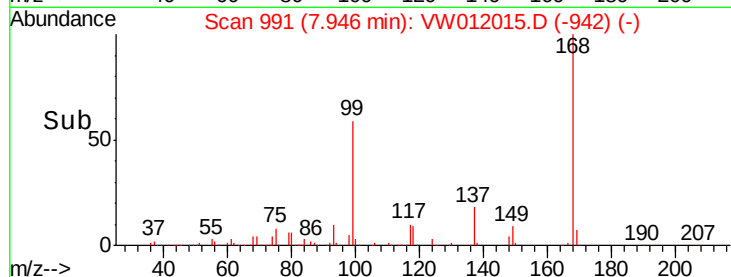
150000

100000

50000

0

Time--> 7.80 7.90 8.00



#8

Diethyl Ether

Concen: 2.690 ug/l

RT: 3.68 min Scan# 291

Delta R.T. -0.01 min

Lab File: VW012015.D

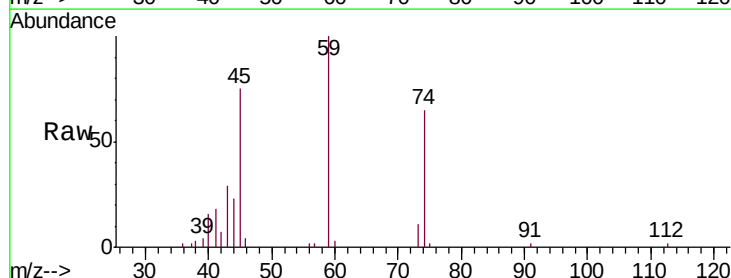
Acq: 20 Aug 2019 02:30

Tgt Ion: 74 Resp: 4557

Ion Ratio Lower Upper

74 100

45 129.0 59.6 178.8



Abundance Ion 74.00 (73.70 to 74.70): VW

Ion 45.00 (44.70 to 45.70): VW

3.68

2500

2000

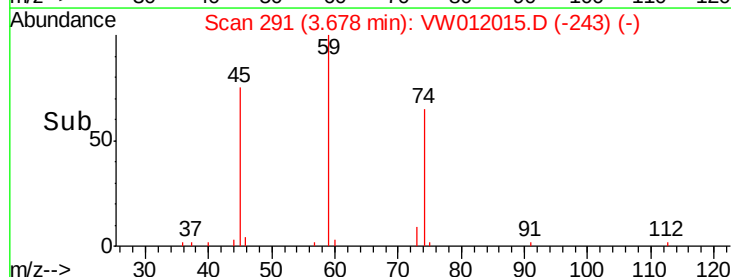
1500

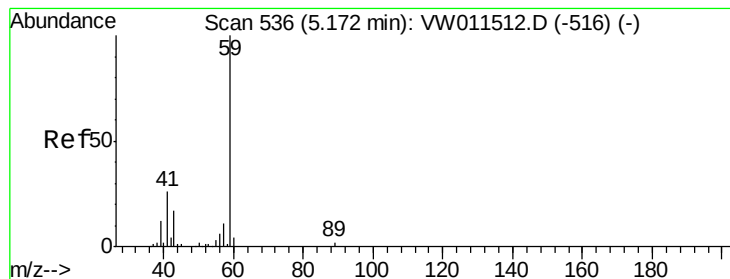
1000

500

0

Time--> 3.60 3.65 3.70 3.75





#11

Tert butyl alcohol

Concen: Below Cal

RT: 5.20 min Scan# 541

Delta R.T. 0.03 min

Lab File: VW012015.D

Acq: 20 Aug 2019 02:30

Instrument :

MSVOA_W

ClientSampled :

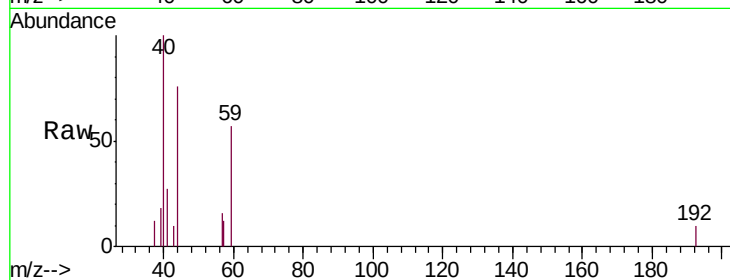
TR-05-081919

Tgt Ion: 59 Resp: 562

Ion Ratio Lower Upper

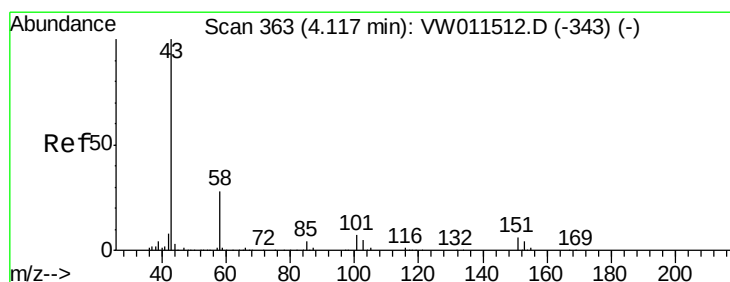
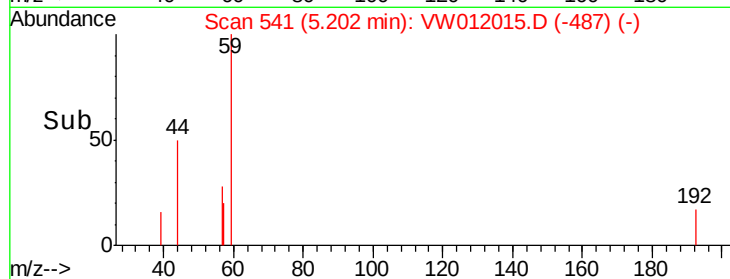
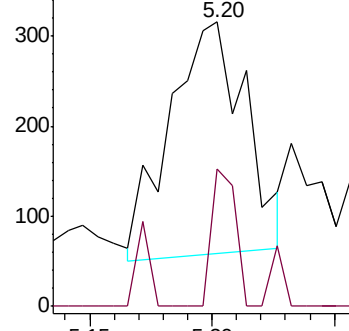
59 100

57 18.7 8.5 12.7#



Abundance Ion 59.00 (58.70 to 59.70): VW

Ion 57.00 (56.70 to 57.70): VW



#16

Acetone

Concen: 47.393 ug/l

RT: 4.14 min Scan# 366

Delta R.T. 0.02 min

Lab File: VW012015.D

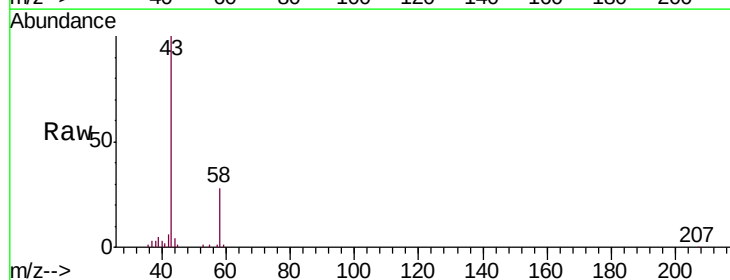
Acq: 20 Aug 2019 02:30

Tgt Ion: 43 Resp: 49749

Ion Ratio Lower Upper

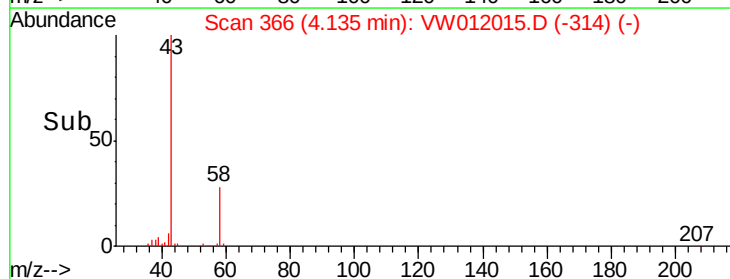
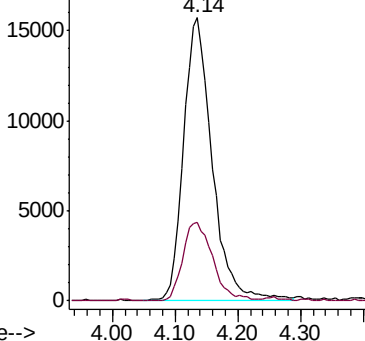
43 100

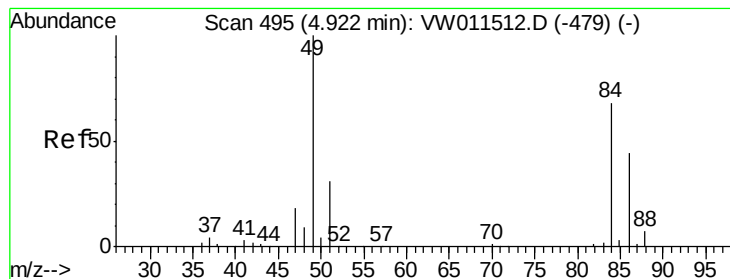
58 27.6 22.3 33.5



Abundance Ion 43.00 (42.70 to 43.70): VW

Ion 58.00 (57.70 to 58.70): VW





#20

Methylene Chloride

Concen: 7.736 ug/l

RT: 4.91 min Scan# 493

Delta R.T. -0.01 min

Lab File: VW012015.D

Acq: 20 Aug 2019 02:30

Instrument :

MSVOA_W

ClientSampleId :

TR-05-081919

Tgt Ion: 84 Resp: 28006

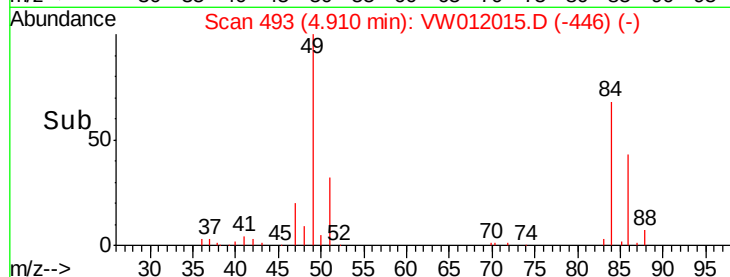
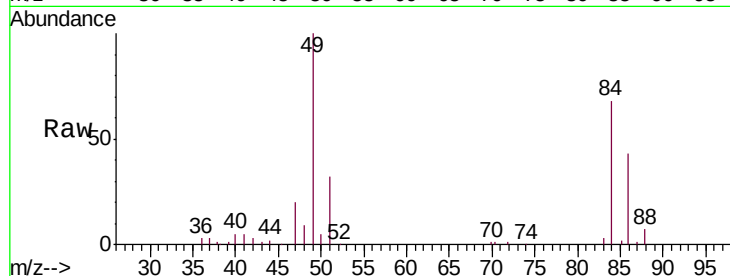
Ion Ratio Lower Upper

84 100

49 146.4 117.8 176.6

51 47.2 37.0 55.4

86 63.1 51.8 77.8

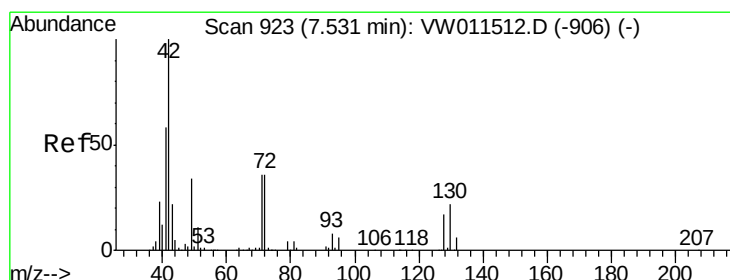
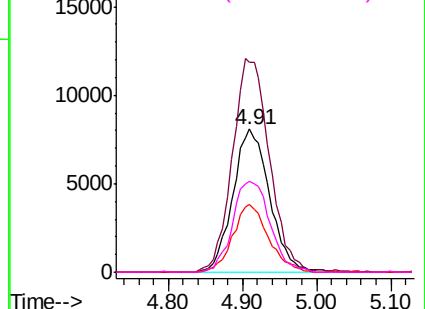


Abundance Ion 83.90 (83.60 to 84.60): VW

Ion 48.90 (48.60 to 49.60): VW

Ion 50.90 (50.60 to 51.60): VW

Ion 85.90 (85.60 to 86.60): VW



#29

Tetrahydrofuran

Concen: 10.422 ug/l

RT: 7.54 min Scan# 924

Delta R.T. 0.01 min

Lab File: VW012015.D

Acq: 20 Aug 2019 02:30

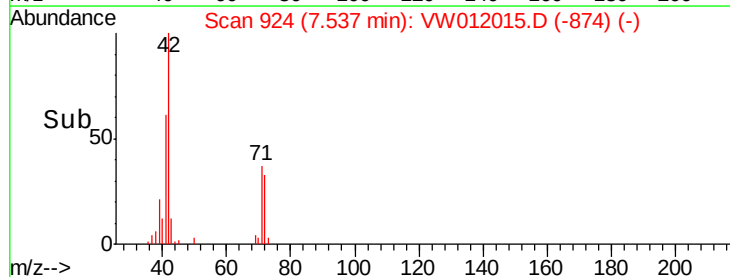
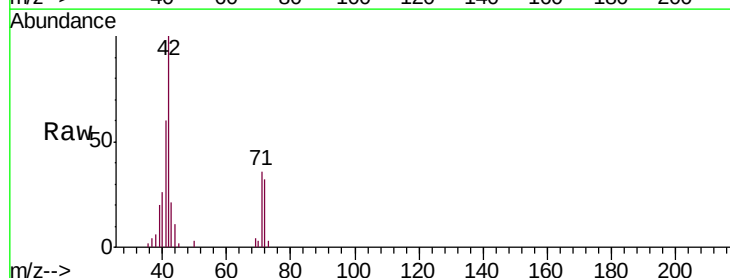
Tgt Ion: 42 Resp: 8183

Ion Ratio Lower Upper

42 100

72 32.6 27.1 40.7

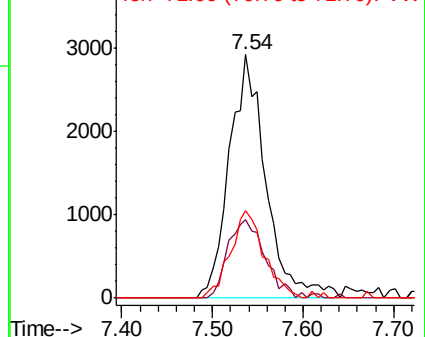
71 33.2 26.2 39.4

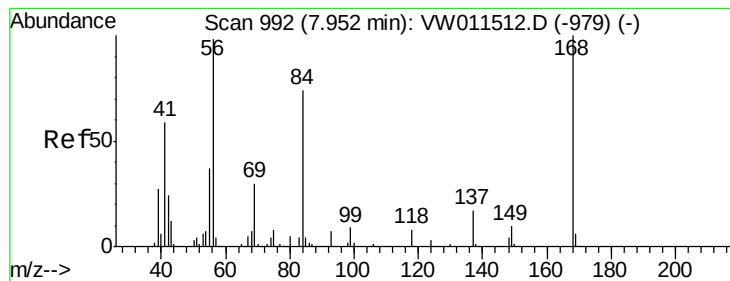


Abundance Ion 42.00 (41.70 to 42.70): VW

Ion 72.00 (71.70 to 72.70): VW

Ion 71.00 (70.70 to 71.70): VW





#31

Cyclohexane

Concen: 1.089 ug/l

RT: 7.95 min Scan# 991

Delta R.T. -0.01 min

Lab File: VW012015.D

Acq: 20 Aug 2019 02:30

Instrument :

MSVOA_W

ClientSampleId :

TR-05-081919

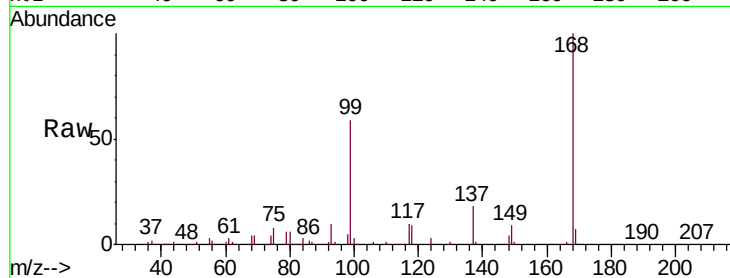
Tgt Ion: 56 Resp: 6721

Ion Ratio Lower Upper

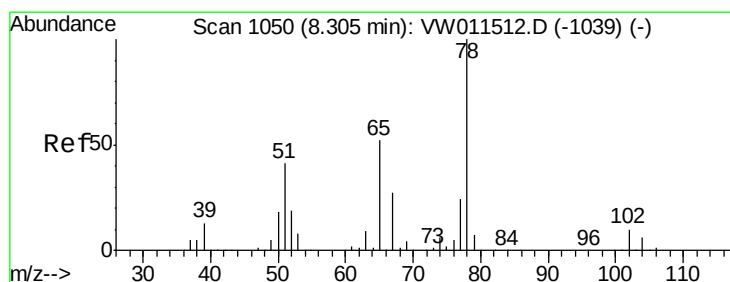
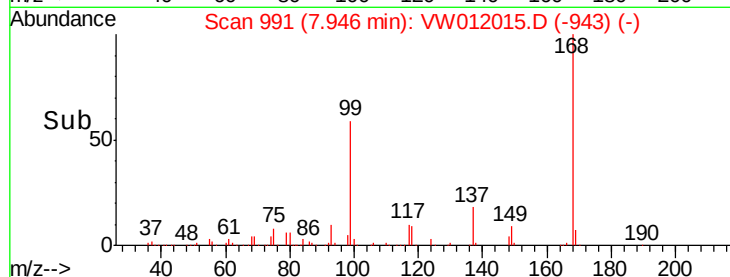
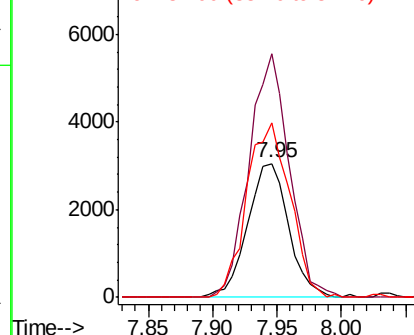
56 100

69 181.9 24.3 36.5#

84 130.1 60.4 90.6#



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: 54.852 ug/l

RT: 8.31 min Scan# 1050

Delta R.T. 0.00 min

Lab File: VW012015.D

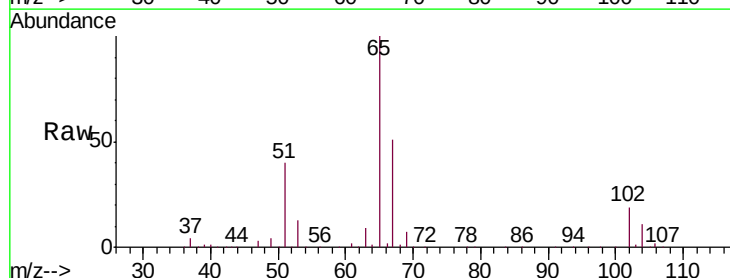
Acq: 20 Aug 2019 02:30

Tgt Ion: 65 Resp: 181011

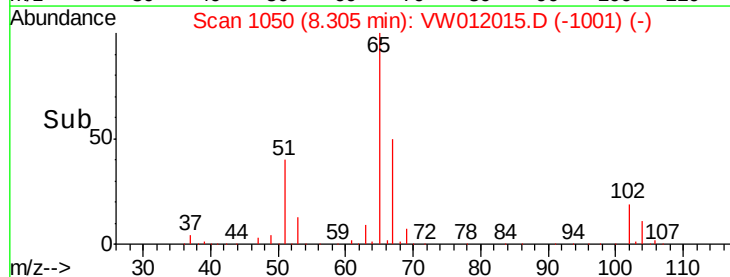
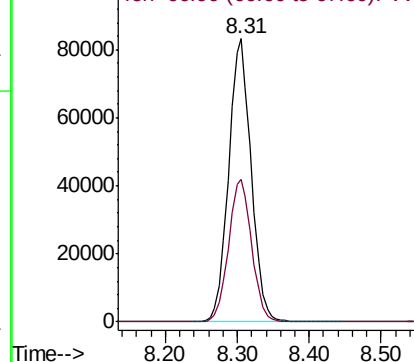
Ion Ratio Lower Upper

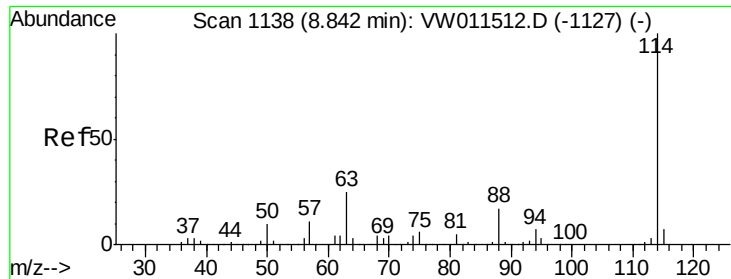
65 100

67 51.5 0.0 105.2



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

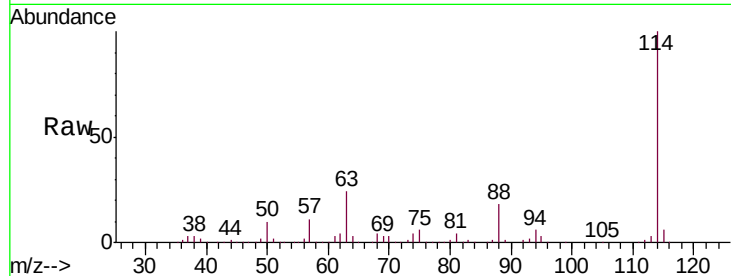




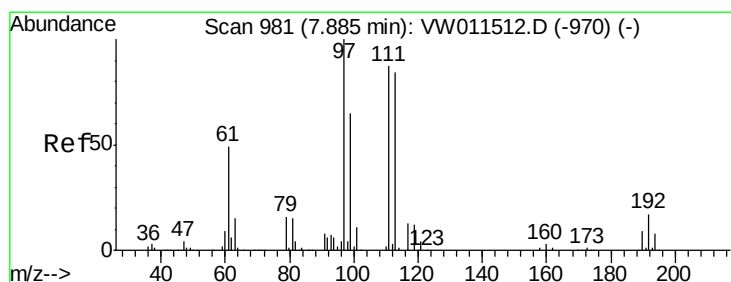
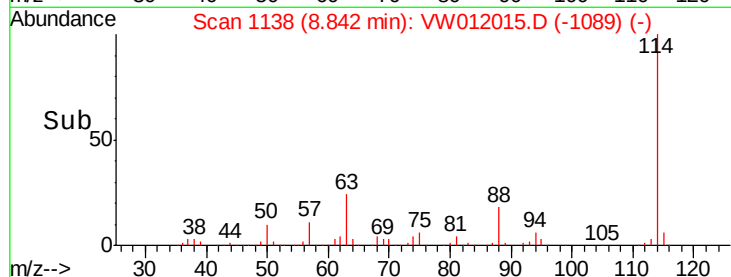
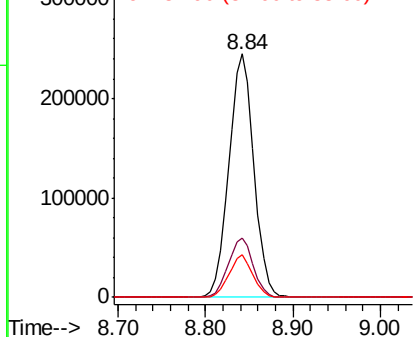
#34
 1,4-Difluorobenzene
 Concen: 50.000 ug/l
 RT: 8.84 min Scan# 1138
 Delta R.T. 0.00 min
 Lab File: VW012015.D
 Acq: 20 Aug 2019 02:30

Instrument :
 MSVOA_W
 ClientSampleId :
 TR-05-081919

Tgt Ion:114 Resp: 483732
 Ion Ratio Lower Upper
 114 100
 63 24.3 0.0 49.2
 88 17.5 0.0 33.8

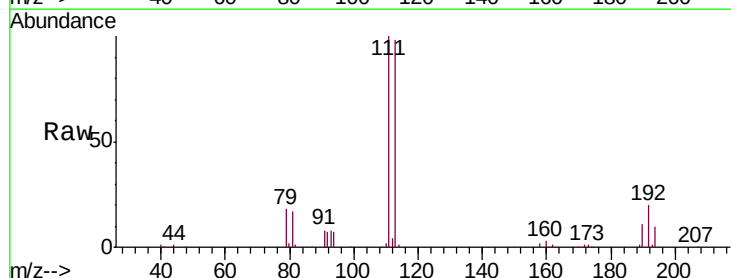


Abundance Ion 113.90 (113.60 to 114.60): V
 Ion 63.00 (62.70 to 63.70): VW
 Ion 87.90 (87.60 to 88.60): VW

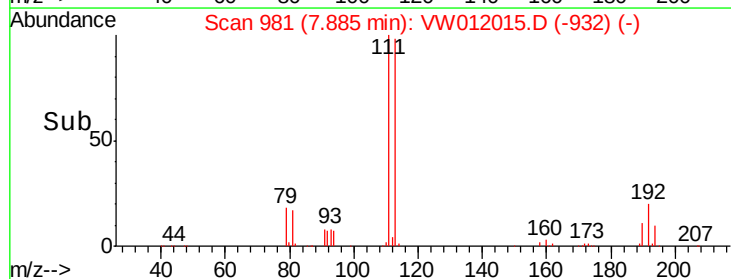
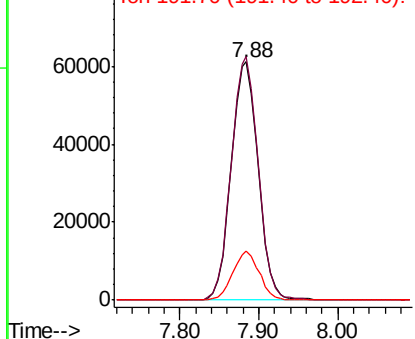


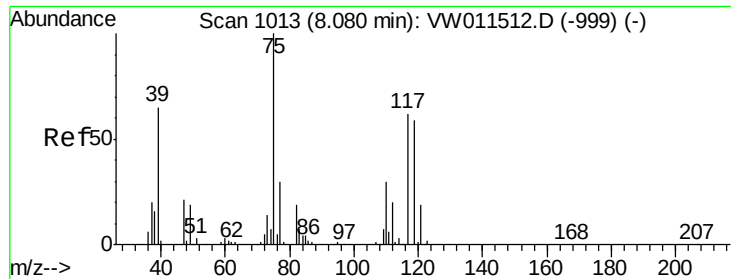
#35
 Dibromofluoromethane
 Concen: 53.706 ug/l
 RT: 7.88 min Scan# 981
 Delta R.T. 0.00 min
 Lab File: VW012015.D
 Acq: 20 Aug 2019 02:30

Tgt Ion:113 Resp: 145748
 Ion Ratio Lower Upper
 113 100
 111 101.9 82.7 124.1
 192 20.0 16.1 24.1



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: 4.742 ug/l

RT: 7.94 min Scan# 990

Delta R.T. -0.14 min

Lab File: VW012015.D

Acq: 20 Aug 2019 02:30

Instrument :

MSVOA_W

ClientSampleId :

TR-05-081919

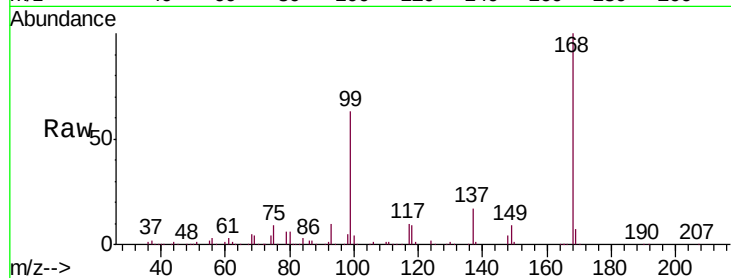
Tgt Ion: 75 Resp: 23852

Ion Ratio Lower Upper

75 100

110 9.2 15.6 46.8#

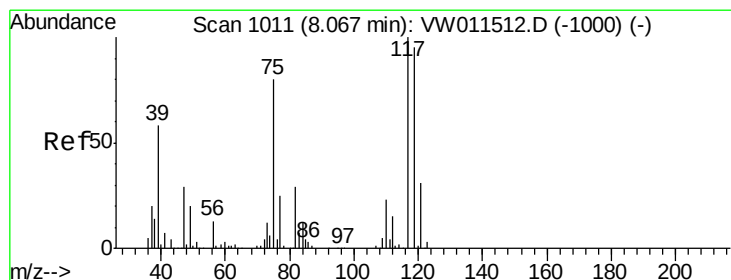
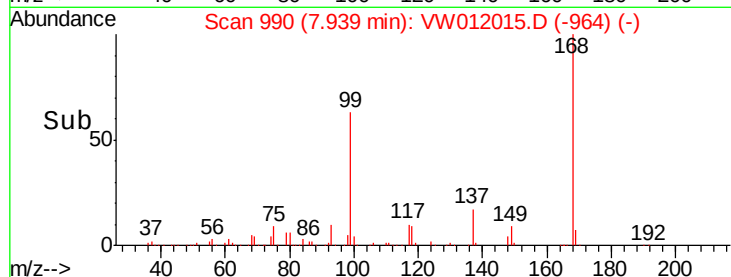
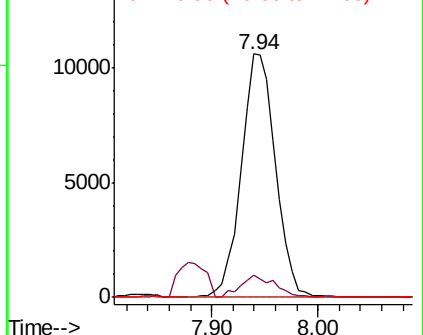
77 0.0 24.3 36.5#



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: 6.620 ug/l

RT: 7.95 min Scan# 991

Delta R.T. -0.12 min

Lab File: VW012015.D

Acq: 20 Aug 2019 02:30

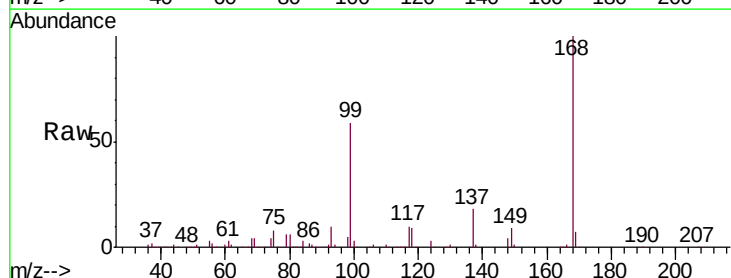
Tgt Ion: 117 Resp: 28505

Ion Ratio Lower Upper

117 100

119 4.8 75.8 113.6#

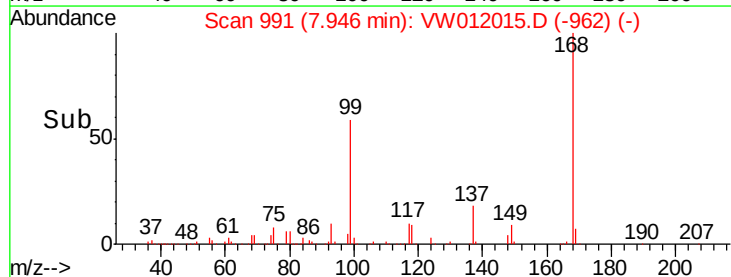
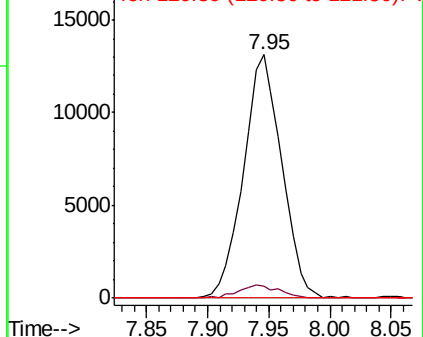
121 0.0 24.7 37.1#

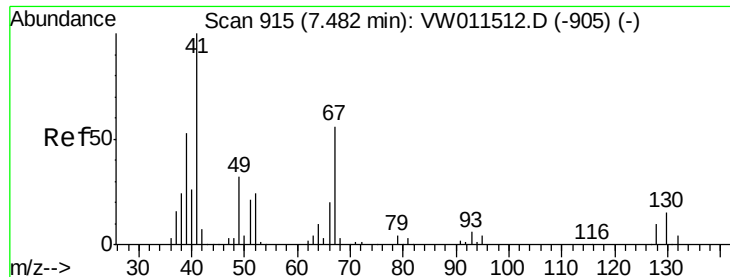


Abundance Ion 116.80 (116.50 to 117.50): V

Ion 118.80 (118.50 to 119.50): V

Ion 120.80 (120.50 to 121.50): V

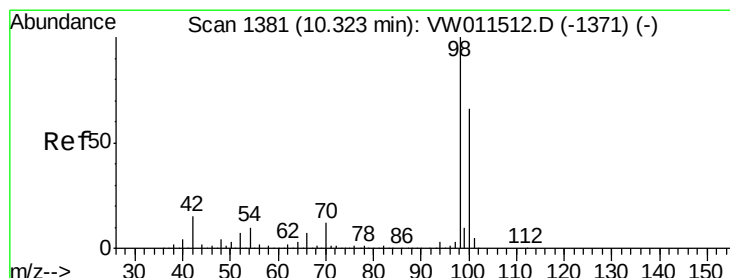
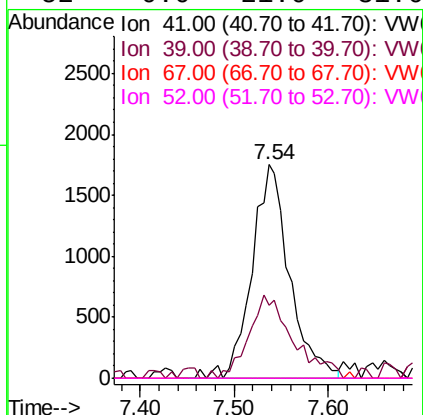
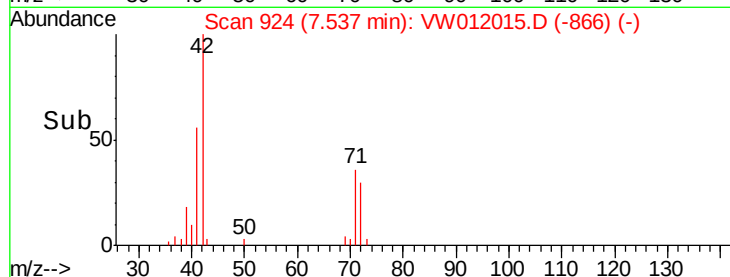
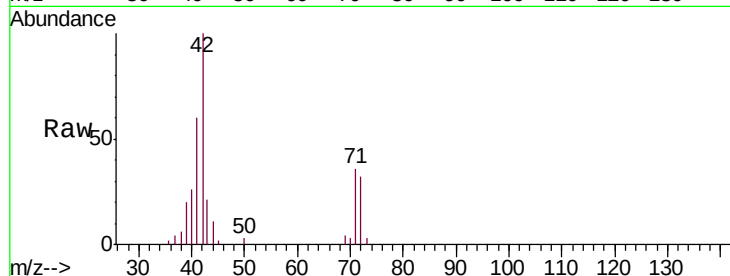




#41
Methacrylonitrile
Concen: 2.834 ug/l
RT: 7.54 min Scan# 924
Delta R.T. 0.05 min
Lab File: VW012015.D
Acq: 20 Aug 2019 02:30

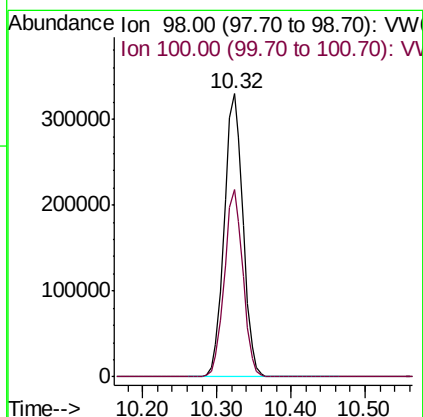
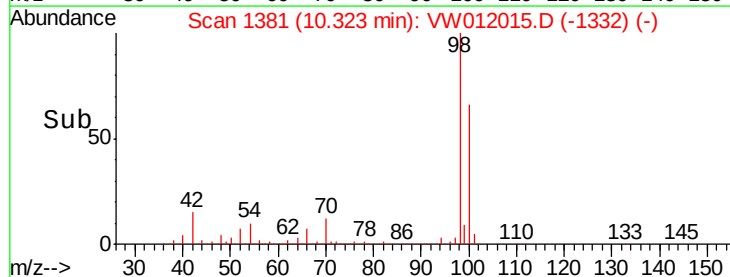
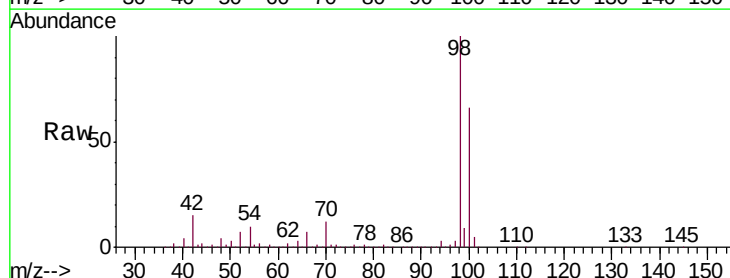
Instrument :
MSVOA_W
ClientSampled :
TR-05-081919

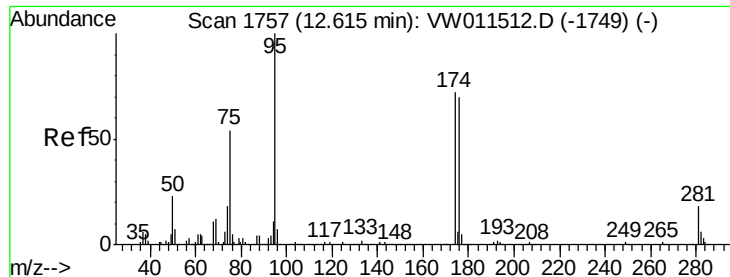
Tgt Ion:	41	Resp:	4902
Ion	Ratio	Lower	Upper
41	100		
39	45.8	43.0	64.4
67	0.0	47.5	71.3#
52	0.0	21.0	31.6#



#50
Toluene-d8
Concen: 52.064 ug/l
RT: 10.32 min Scan# 1381
Delta R.T. 0.00 min
Lab File: VW012015.D
Acq: 20 Aug 2019 02:30

Tgt Ion:	98	Resp:	578494
Ion	Ratio	Lower	Upper
98	100		
100	65.4	52.7	79.1

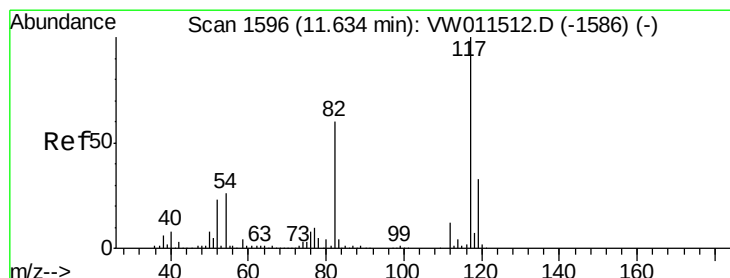
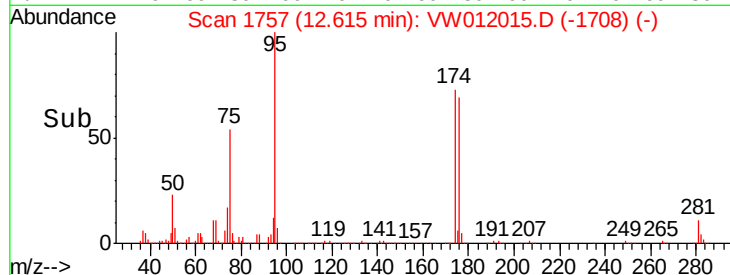
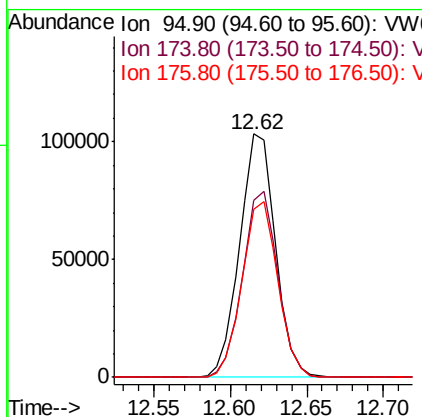
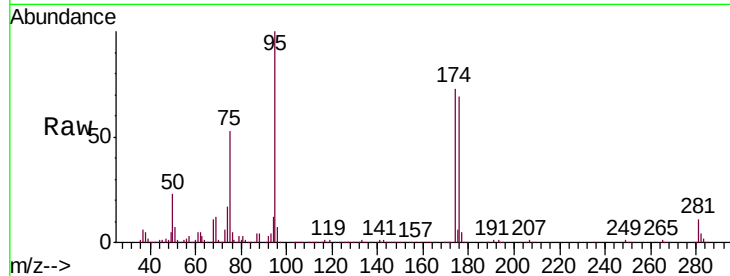




#62
4-Bromofluorobenzene
Concen: 42.314 ug/l
RT: 12.62 min Scan# 1757
Delta R.T. 0.00 min
Lab File: VW012015.D
Acq: 20 Aug 2019 02:30

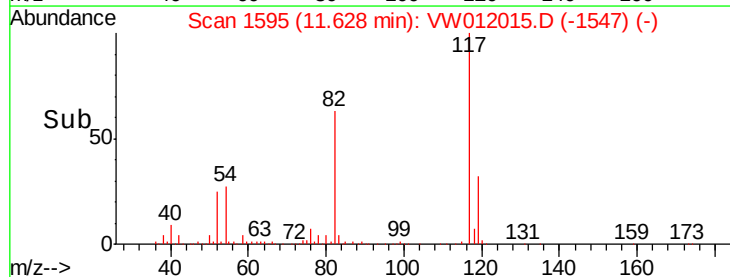
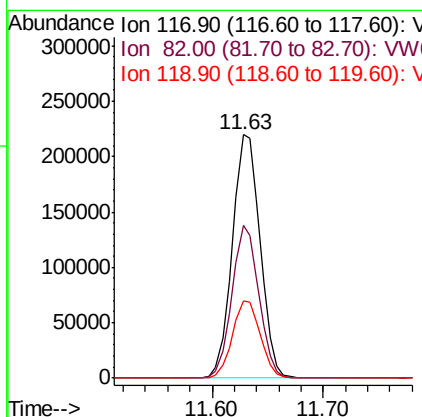
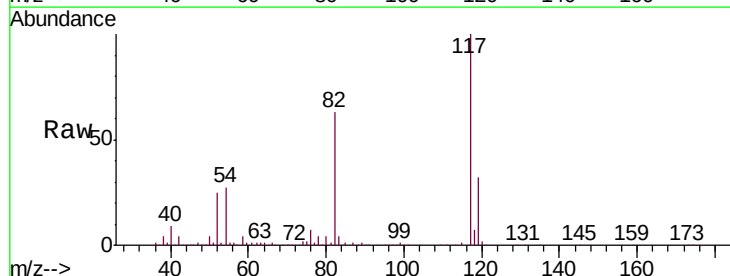
Instrument :
MSVOA_W
ClientSampled :
TR-05-081919

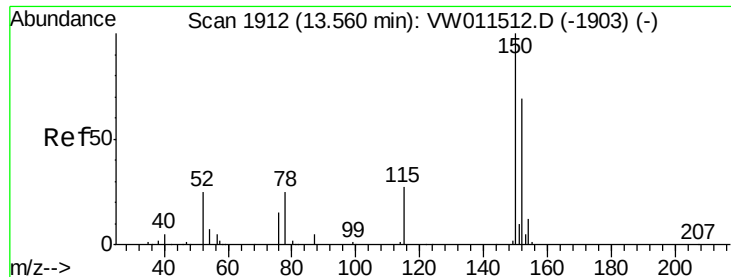
Tgt Ion: 95 Resp: 167620
Ion Ratio Lower Upper
95 100
174 75.8 0.0 150.2
176 72.7 0.0 144.4



#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.63 min Scan# 1595
Delta R.T. -0.01 min
Lab File: VW012015.D
Acq: 20 Aug 2019 02:30

Tgt Ion: 117 Resp: 378127
Ion Ratio Lower Upper
117 100
82 62.7 47.9 71.9
119 31.5 26.2 39.2



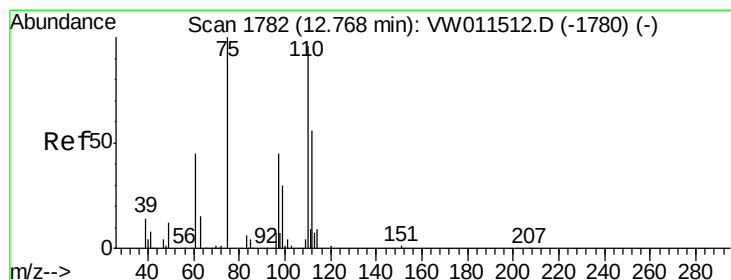
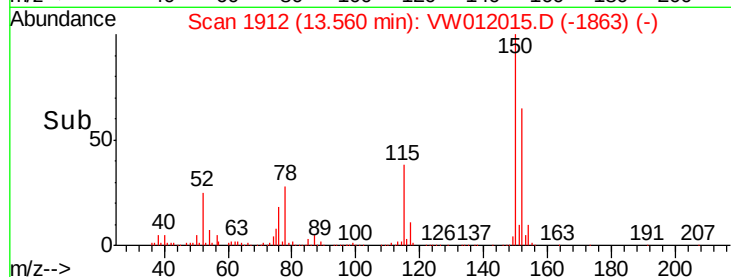
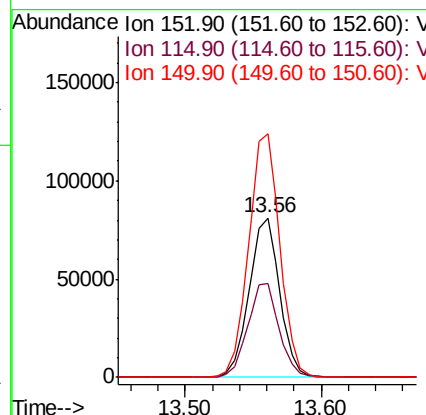
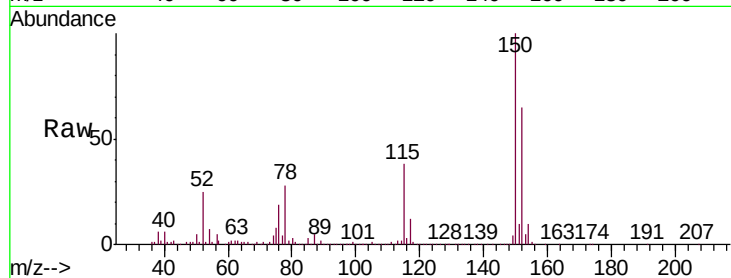


#72

1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 13.56 min Scan# 1912
Delta R.T. 0.00 min
Lab File: VW012015.D
Acq: 20 Aug 2019 02:30

Instrument :
MSVOA_W
ClientSampleId :
TR-05-081919

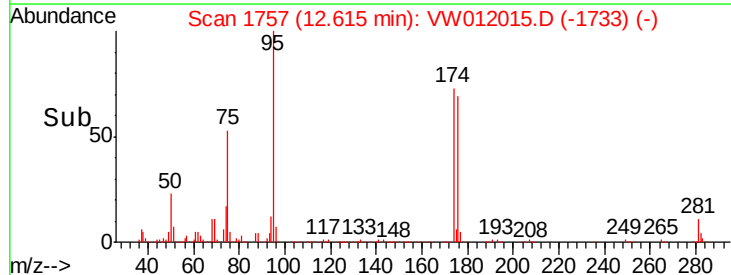
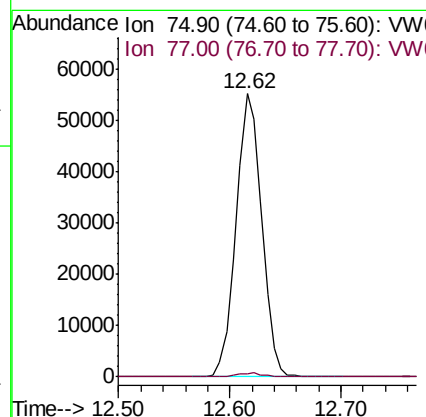
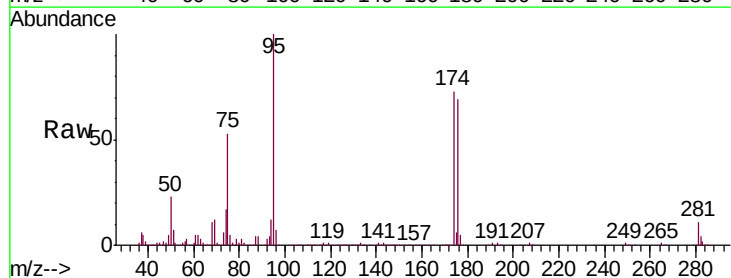
Tgt Ion: 152 Resp: 127193
Ion Ratio Lower Upper
152 100
115 60.2 30.5 91.5
150 156.7 0.0 352.6

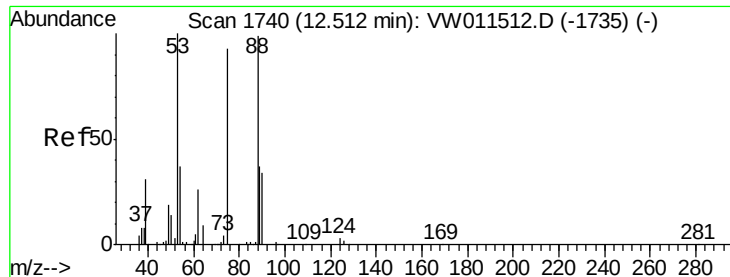


#76

1,2,3-Trichloropropane
Concen: 65.395 ug/l
RT: 12.62 min Scan# 1757
Delta R.T. -0.15 min
Lab File: VW012015.D
Acq: 20 Aug 2019 02:30

Tgt Ion: 75 Resp: 88012
Ion Ratio Lower Upper
75 100
77 1.3 0.0 0.0#





#81

trans-1,4-Dichloro-2-butene

Concen: 150.713 ug/l

RT: 12.62 min Scan# 1757

Delta R.T. 0.10 min

Lab File: VW012015.D

Acq: 20 Aug 2019 02:30

Instrument :

MSVOA_W

ClientSampleId :

TR-05-081919

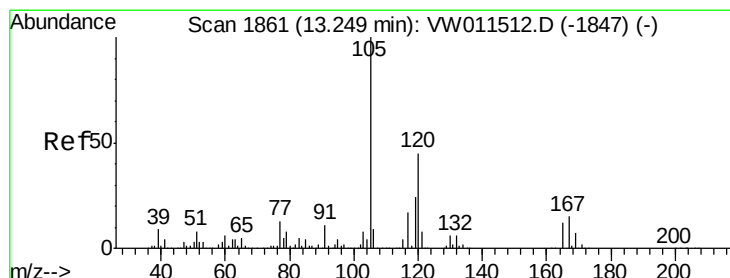
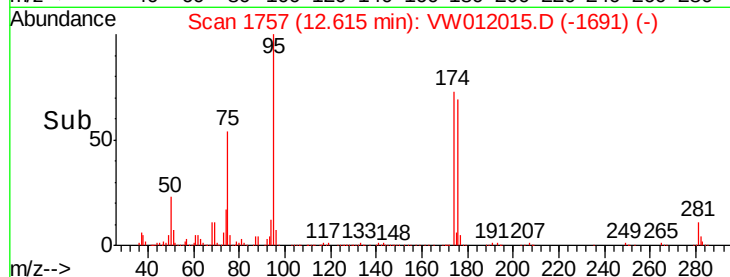
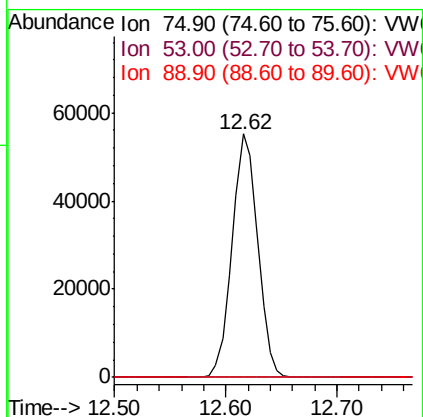
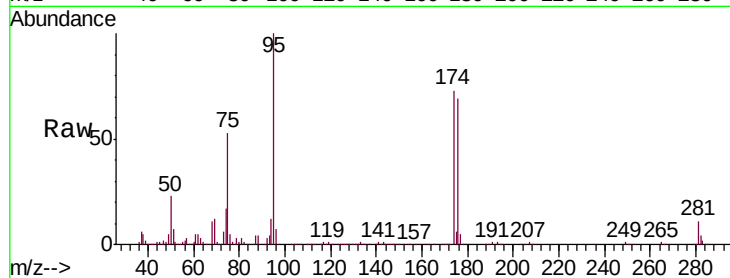
Tgt Ion: 75 Resp: 88012

Ion Ratio Lower Upper

75 100

53 0.2 88.0 132.0#

89 0.1 35.3 52.9#



#84

1,2,4-Trimethylbenzene

Concen: 2.843 ug/l

RT: 13.25 min Scan# 1861

Delta R.T. 0.00 min

Lab File: VW012015.D

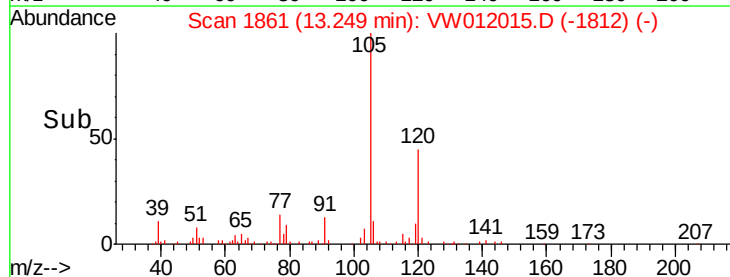
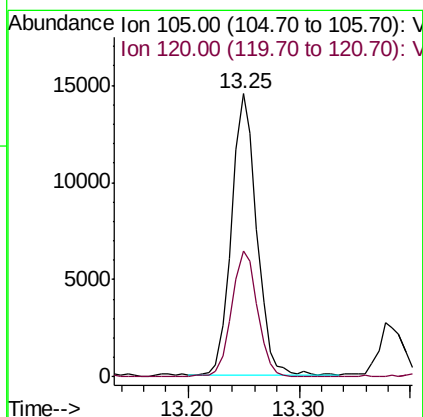
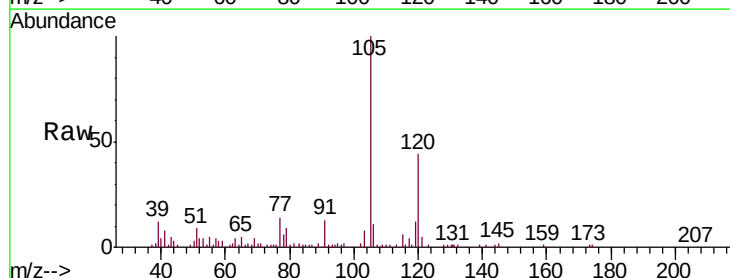
Acq: 20 Aug 2019 02:30

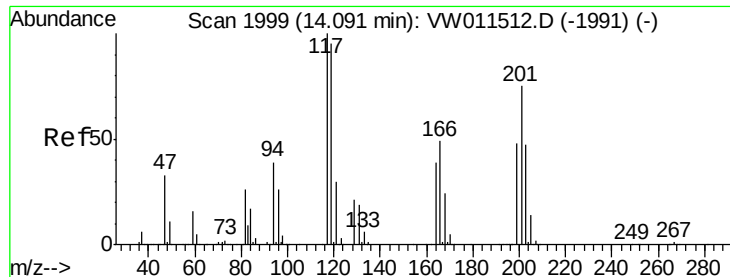
Tgt Ion: 105 Resp: 22779

Ion Ratio Lower Upper

105 100

120 45.6 22.1 66.5





#90

Hexachloroethane

Concen: 1.702 ug/l

RT: 14.10 min Scan# 2001

Delta R.T. 0.01 min

Lab File: VW012015.D

Acq: 20 Aug 2019 02:30

Instrument :

MSVOA_W

ClientSampleId :

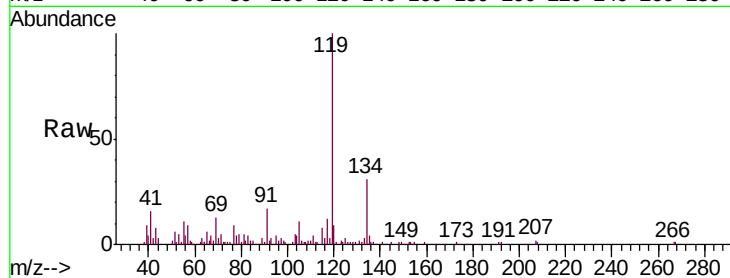
TR-05-081919

Tgt Ion:117 Resp: 2591

Ion Ratio Lower Upper

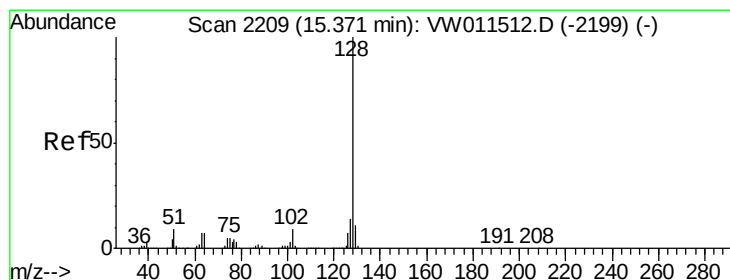
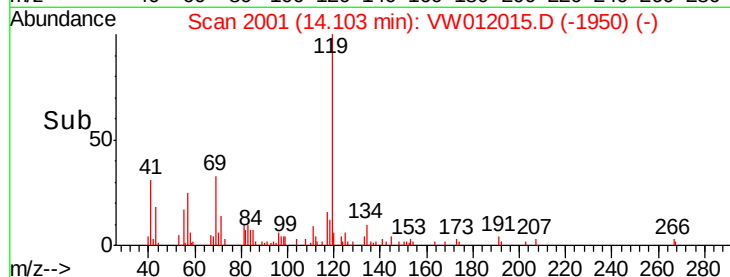
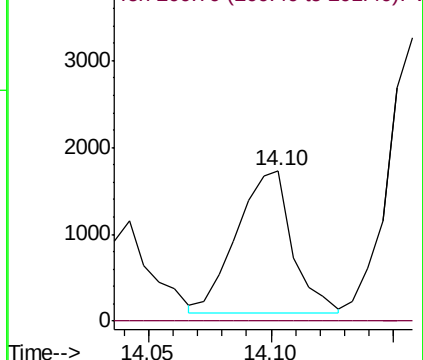
117 100

201 0.0 39.4 118.2#



Abundance Ion 116.80 (116.50 to 117.50): V

Ion 200.70 (200.40 to 201.40): V



#95

Naphthalene

Concen: 2.450 ug/l

RT: 15.36 min Scan# 2208

Delta R.T. -0.01 min

Lab File: VW012015.D

Acq: 20 Aug 2019 02:30

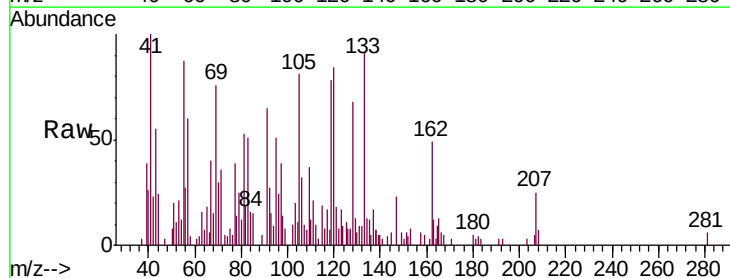
Tgt Ion:128 Resp: 2013

Ion Ratio Lower Upper

128 100

127 6.5 10.6 16.0#

129 0.0 8.6 13.0#



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

