

Data Path : Z:\VOASRV\HPCHEM1\MSVOA_W\DATA\VW081219\
 Data File : VW011833.D
 Acq On : 10 Aug 2019 01:09
 Operator : SY/VA
 Sample : K4277-01
 Misc : 6.09G/5ML/MSVOA_W/SOIL
 ALS Vial : 21 Sample Multiplier: 1

Instrument :
 MSVOA_W
 ClientSampleId :
 TP-19

Quant Time: Aug 11 01:31:19 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	200584	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	8.84	114	336563	50.00	ug/l	0.00
63) Chlorobenzene-d5	11.63	117	280704	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.56	152	114363	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	137181	59.56	ug/l	0.00
Spiked Amount			Recovery	=	119.12%	
35) Dibromofluoromethane	7.88	113	105239	55.74	ug/l	0.00
Spiked Amount			Recovery	=	111.48%	
50) Toluene-d8	10.32	98	418507	54.14	ug/l	0.00
Spiked Amount			Recovery	=	108.28%	
62) 4-Bromofluorobenzene	12.62	95	134044	48.63	ug/l	0.00
Spiked Amount			Recovery	=	97.26%	

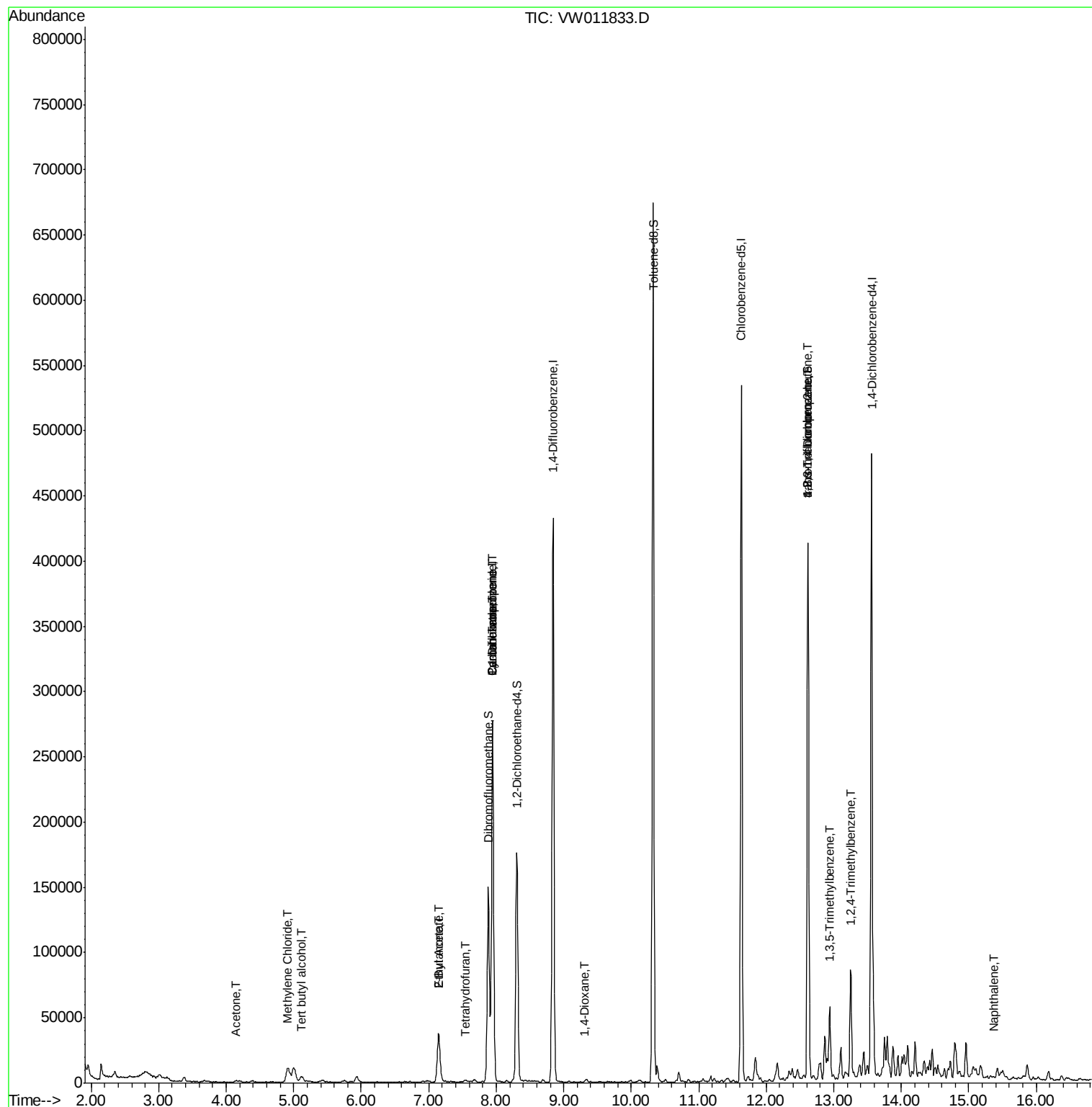
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
11) Tert butyl alcohol	5.12	59	4209	7.463	ug/l #	72
16) Acetone	4.14	43	1927	2.630	ug/l #	86
20) Methylene Chloride	4.91	84	7981	3.159	ug/l #	90
25) 2-Butanone	7.15	43	2994	3.123	ug/l #	80
29) Tetrahydrofuran	7.55	42	1546	2.821	ug/l #	90
31) Cyclohexane	7.95	56	5469	1.270	ug/l #	1
36) 1,1-Dichloropropene	7.95	75	17773	5.079	ug/l #	52
37) Ethyl Acetate	7.15	43	2994	1.487	ug/l #	1
38) Carbon Tetrachloride	7.95	117	20299	6.776	ug/l #	17
49) 1,4-Dioxane	9.30	88	19	1.096	ug/l #	1
76) 1,2,3-Trichloropropane	12.62	75	72720	60.095	ug/l #	100
80) 1,3,5-Trimethylbenzene	12.94	105	20273	2.835	ug/l	98
81) trans-1,4-Dichloro-2-buten	12.62	75	72720	138.497	ug/l #	6
84) 1,2,4-Trimethylbenzene	13.25	105	44515	6.179	ug/l	99
95) Naphthalene	15.37	128	1275	2.337	ug/l #	81

(#) = 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: VW011833.D

Acq: 10 Aug 2019 01:09

Instrument :

MSVOA_W

ClientSampleId :

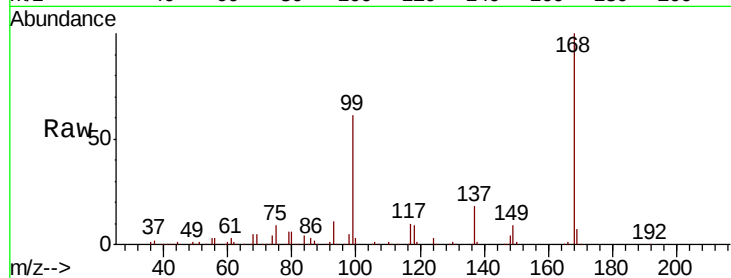
TP-19

Tgt Ion:168 Resp: 200584

Ion Ratio Lower Upper

168 100

99 61.2 48.2 72.4



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VW

7.95

100000

80000

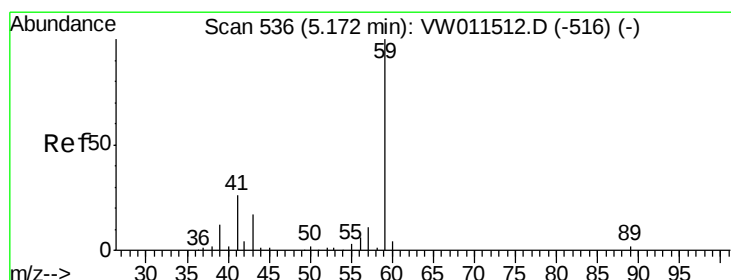
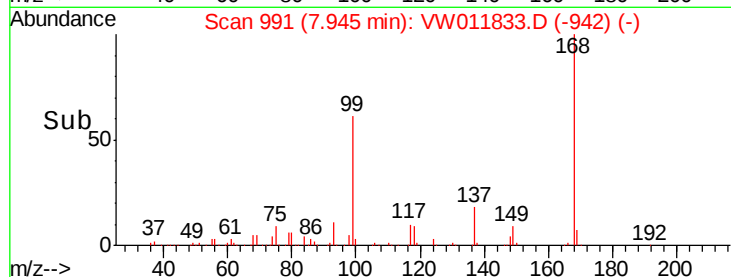
60000

40000

20000

0

Time-->



#11

Tert butyl alcohol

Concen: 7.463 ug/l

RT: 5.12 min Scan# 527

Delta R.T. -0.05 min

Lab File: VW011833.D

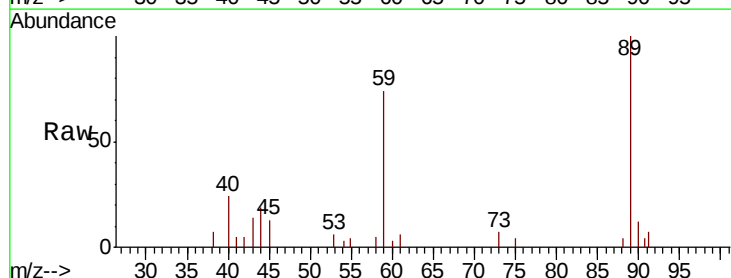
Acq: 10 Aug 2019 01:09

Tgt Ion: 59 Resp: 4209

Ion Ratio Lower Upper

59 100

57 0.0 8.5 12.7#



Abundance Ion 59.00 (58.70 to 59.70): VW

Ion 57.00 (56.70 to 57.70): VW

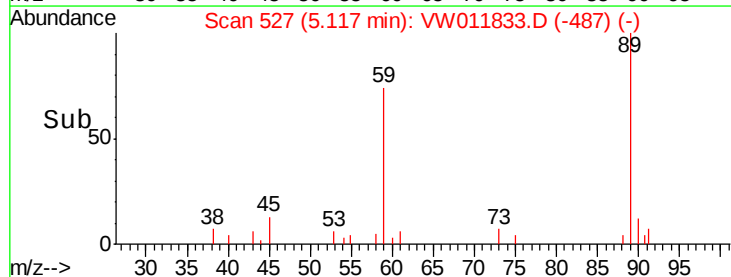
5.12

1000

500

0

Time-->





#16

Acetone

Concen: 2.630 ug/l

RT: 4.14 min Scan# 367

Delta R.T. 0.02 min

Lab File: VW011833.D

Acq: 10 Aug 2019 01:09

Instrument :

MSVOA_W

ClientSampled :

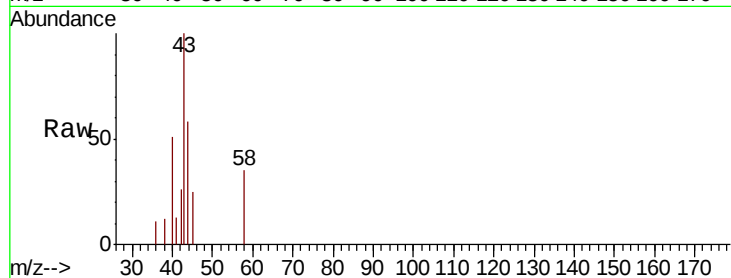
TP-19

Tgt Ion: 43 Resp: 1927

Ion Ratio Lower Upper

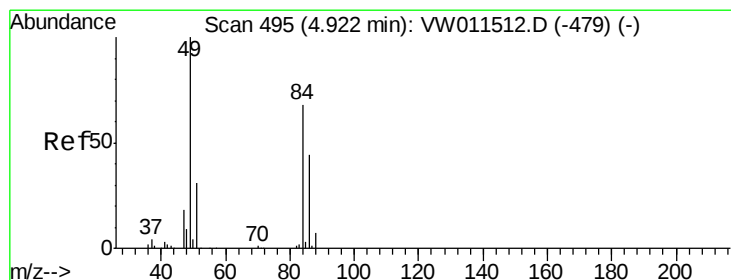
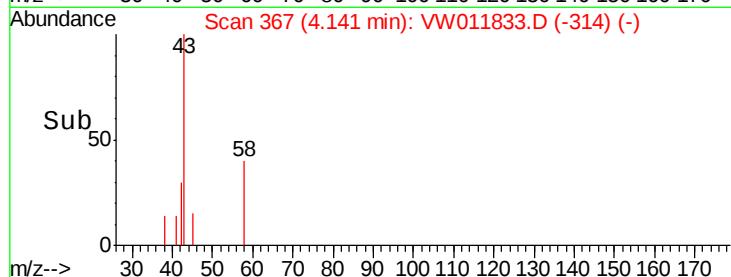
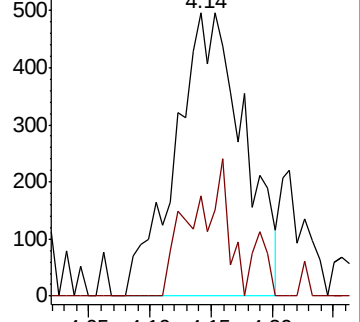
43 100

58 35.5 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: 3.159 ug/l

RT: 4.91 min Scan# 493

Delta R.T. -0.01 min

Lab File: VW011833.D

Acq: 10 Aug 2019 01:09

Tgt Ion: 84 Resp: 7981

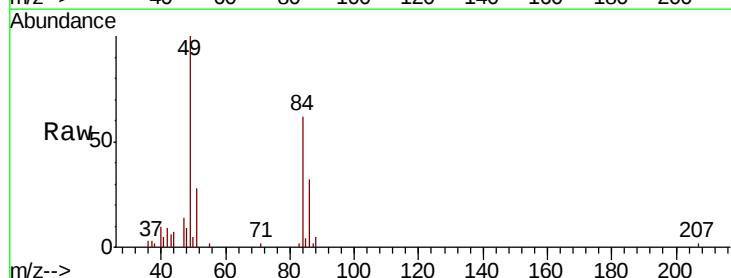
Ion Ratio Lower Upper

84 100

49 157.3 117.8 176.6

51 42.4 37.0 55.4

86 51.2 51.8 77.8#

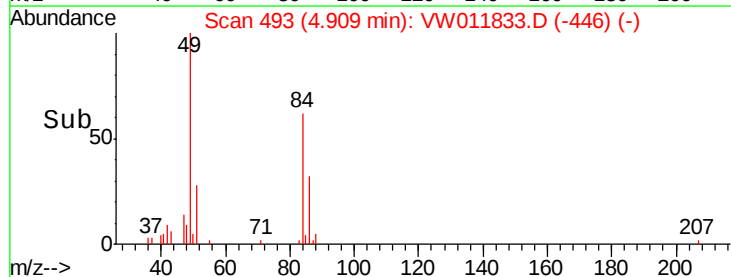
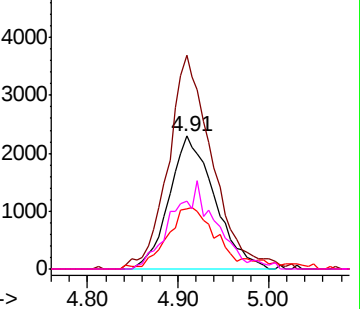


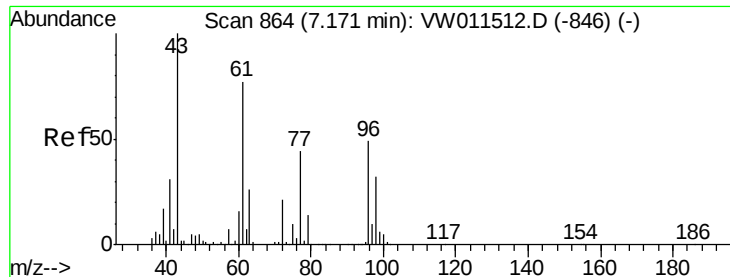
Abundance Ion 83.90 (83.60 to 84.60): VW

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





#25

2-Butanone

Concen: 3.123 ug/l

RT: 7.15 min Scan# 860

Delta R.T. -0.02 min

Lab File: VW011833.D

Acq: 10 Aug 2019 01:09

Instrument :

MSVOA_W

ClientSampled :

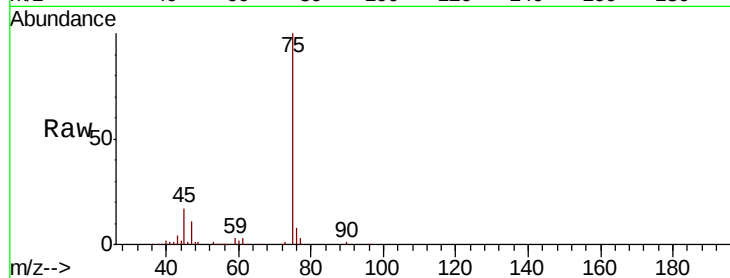
TP-19

Tgt Ion: 43 Resp: 2994

Ion Ratio Lower Upper

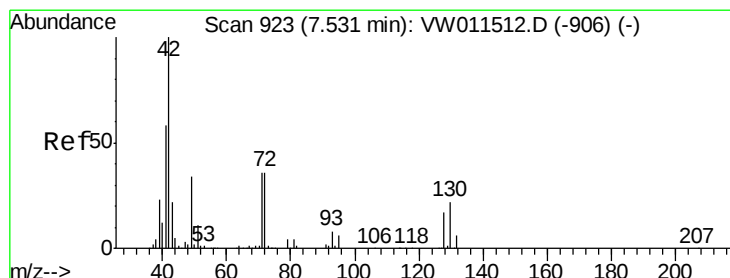
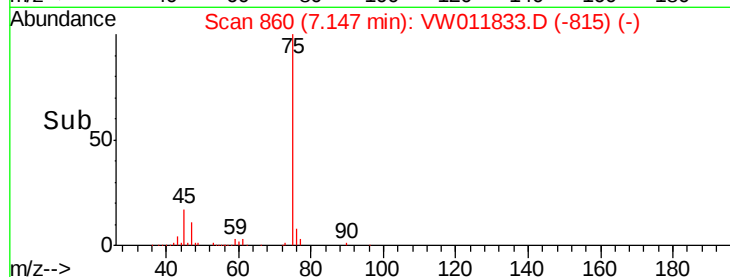
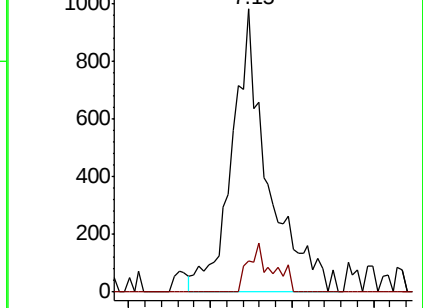
43 100

72 11.2 16.6 24.8#



Abundance Ion 43.00 (42.70 to 43.70): VW

Ion 72.00 (71.70 to 72.70): VW



#29

Tetrahydrofuran

Concen: 2.821 ug/l

RT: 7.55 min Scan# 926

Delta R.T. 0.02 min

Lab File: VW011833.D

Acq: 10 Aug 2019 01:09

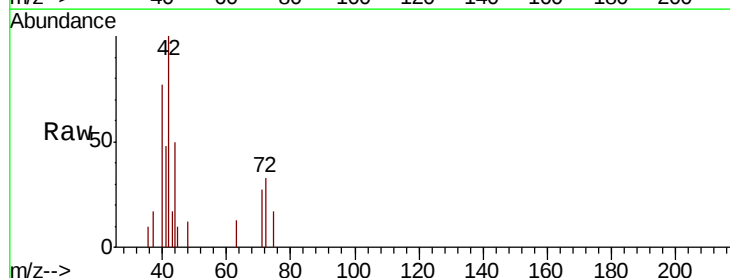
Tgt Ion: 42 Resp: 1546

Ion Ratio Lower Upper

42 100

72 31.4 27.1 40.7

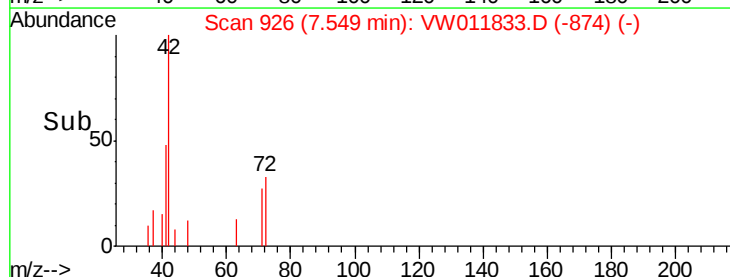
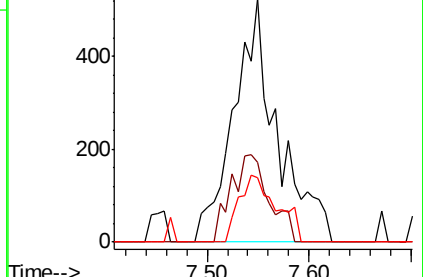
71 23.8 26.2 39.4#

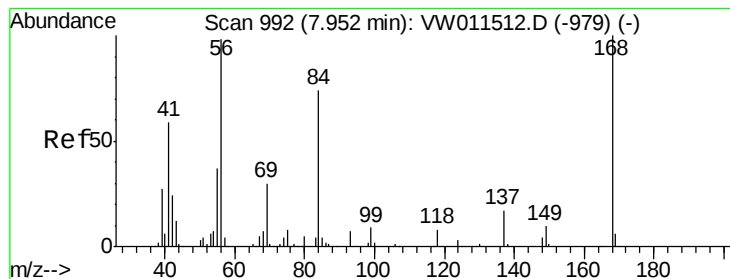


Abundance Ion 42.00 (41.70 to 42.70): VW

Ion 72.00 (71.70 to 72.70): VW

Ion 71.00 (70.70 to 71.70): VW





#31

Cyclohexane

Concen: 1.270 ug/l

RT: 7.95 min Scan# 991

Delta R.T. -0.01 min

Lab File: VW011833.D

Acq: 10 Aug 2019 01:09

Instrument :

MSVOA_W

ClientSampled :

TP-19

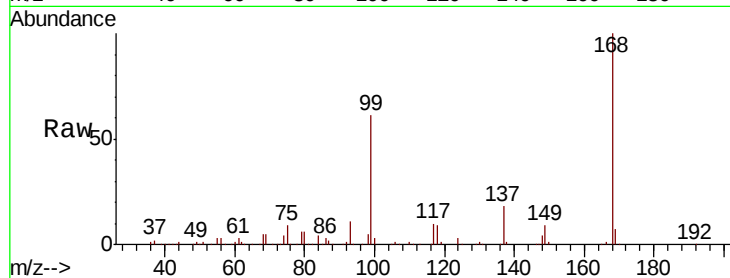
Tgt Ion: 56 Resp: 5469

Ion Ratio Lower Upper

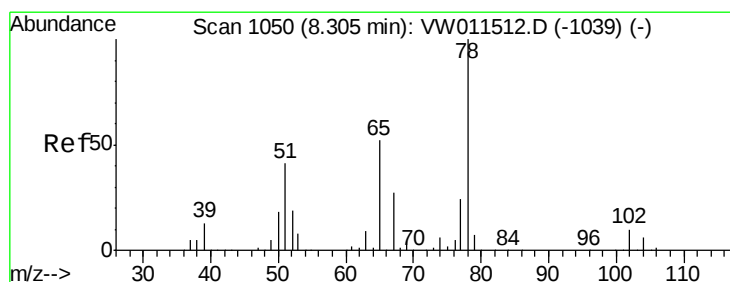
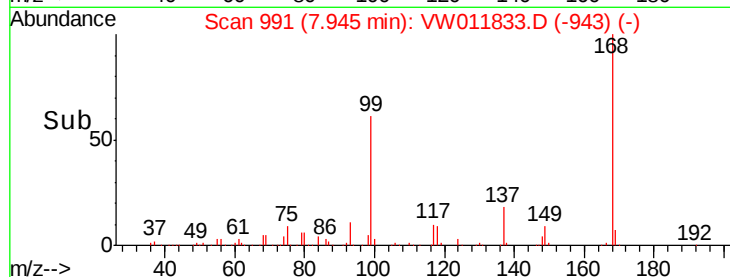
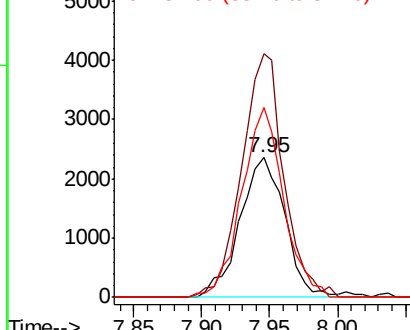
56 100

69 174.4 24.3 36.5#

84 135.6 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: 59.559 ug/l

RT: 8.31 min Scan# 1050

Delta R.T. -0.00 min

Lab File: VW011833.D

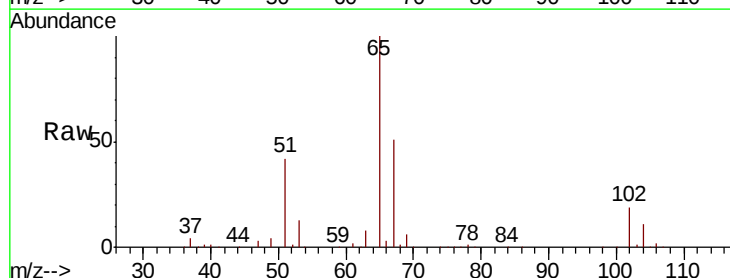
Acq: 10 Aug 2019 01:09

Tgt Ion: 65 Resp: 137181

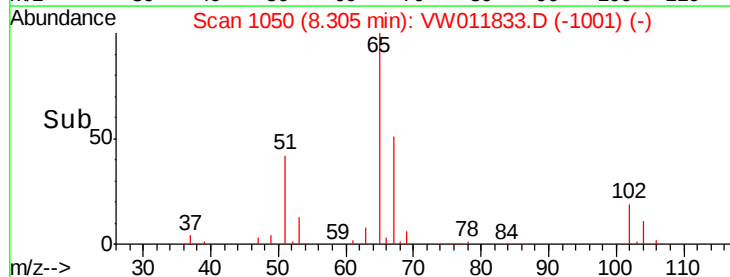
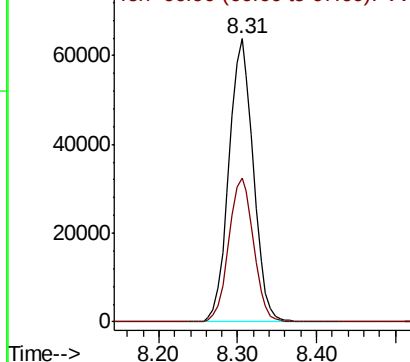
Ion Ratio Lower Upper

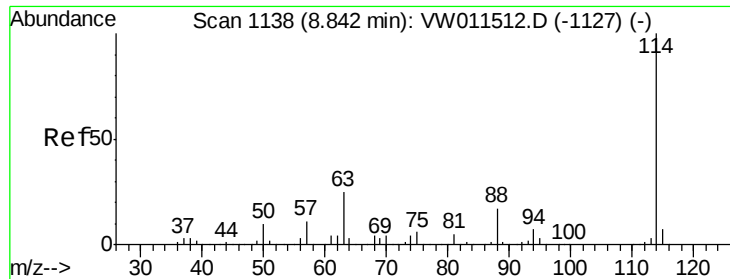
65 100

67 51.8 0.0 105.2



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

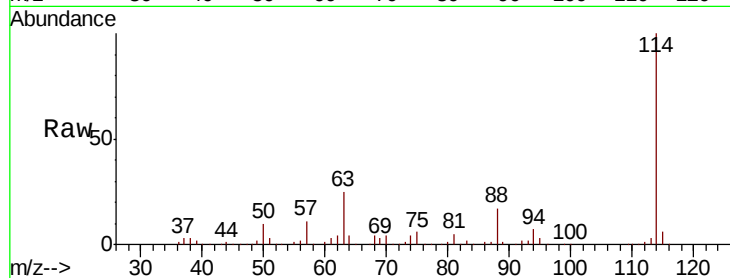




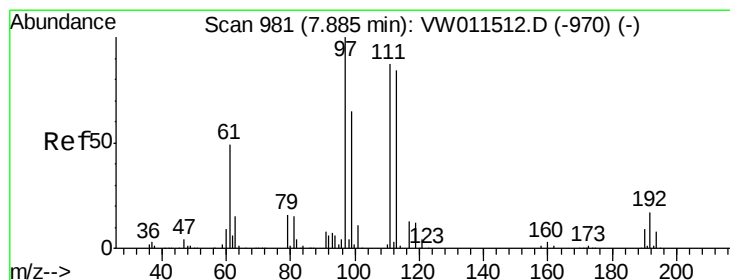
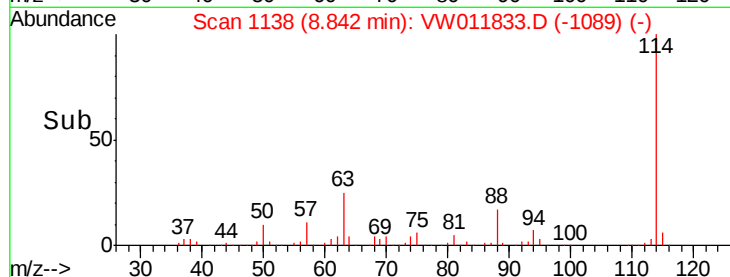
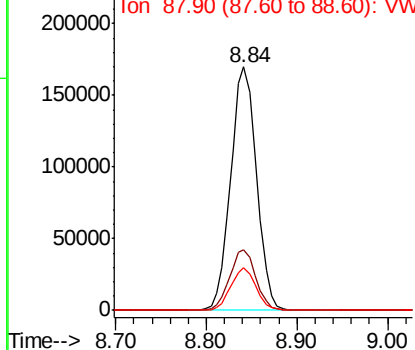
#34
1,4-Difluorobenzene
Concen: 50.000 ug/l
RT: 8.84 min Scan# 1138
Delta R.T. -0.00 min
Lab File: VW011833.D
Acq: 10 Aug 2019 01:09

Instrument :
MSVOA_W
ClientSampled :
TP-19

Tgt Ion:114 Resp: 336563
Ion Ratio Lower Upper
114 100
63 25.1 0.0 49.2
88 17.5 0.0 33.8

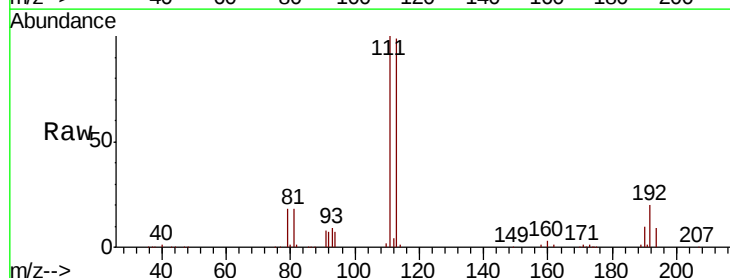


Abundance Ion 113.90 (113.60 to 114.60): V
Ion 63.00 (62.70 to 63.70): VW
Ion 87.90 (87.60 to 88.60): VW

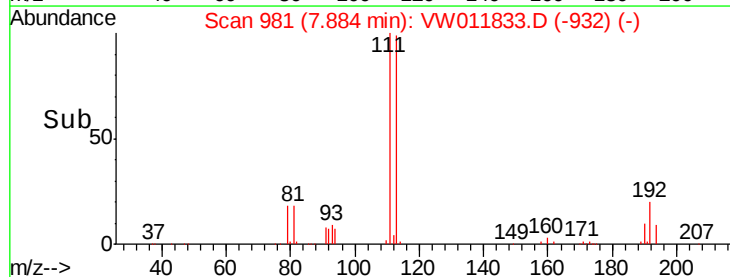
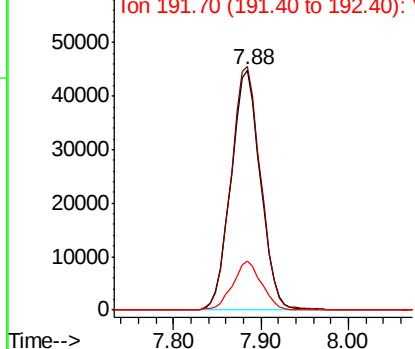


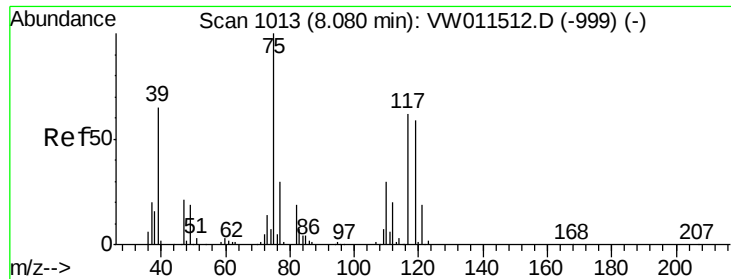
#35
Dibromofluoromethane
Concen: 55.736 ug/l
RT: 7.88 min Scan# 981
Delta R.T. -0.00 min
Lab File: VW011833.D
Acq: 10 Aug 2019 01:09

Tgt Ion:113 Resp: 105239
Ion Ratio Lower Upper
113 100
111 102.1 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

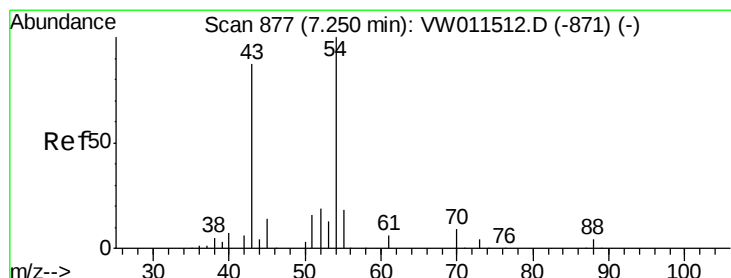
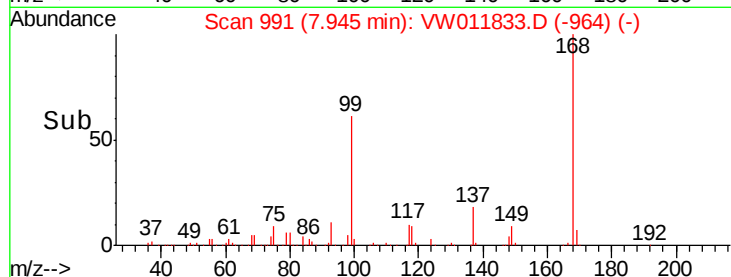
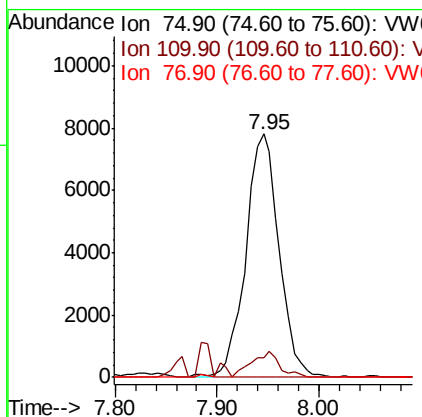
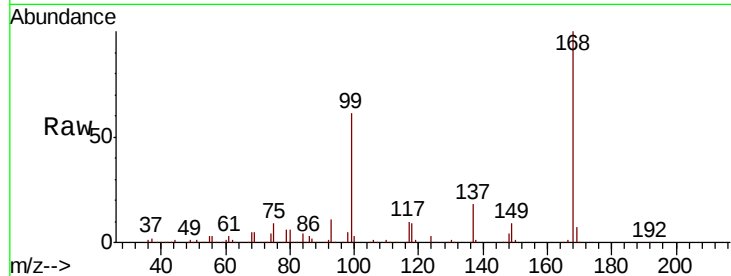




#36
 1,1-Dichloropropene
 Concen: 5.079 ug/l
 RT: 7.95 min Scan# 991
 Delta R.T. -0.13 min
 Lab File: VW011833.D
 Acq: 10 Aug 2019 01:09

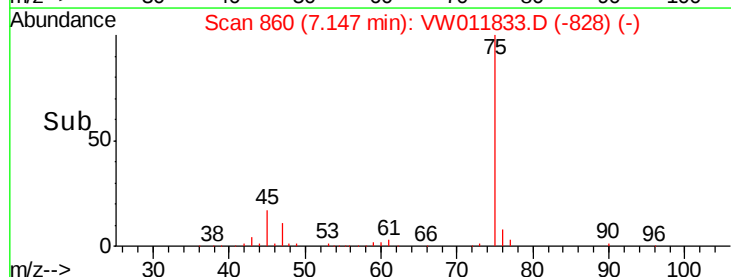
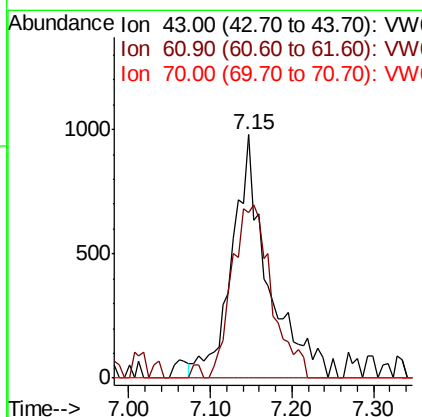
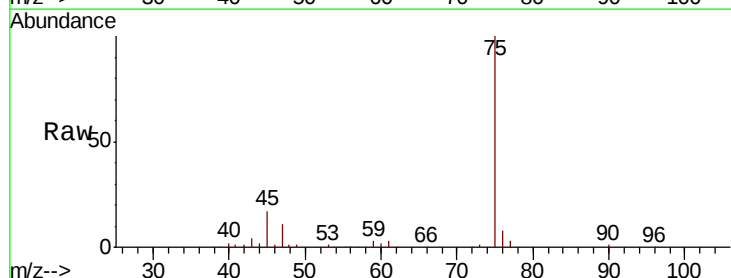
Instrument :
 MSVOA_W
 ClientSampled :
 TP-19

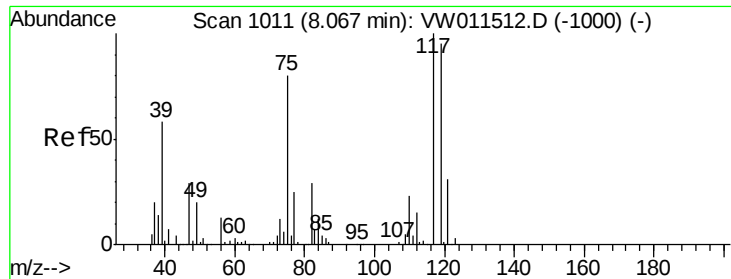
Tgt Ion: 75 Resp: 17773
 Ion Ratio Lower Upper
 75 100
 110 9.0 15.6 46.8#
 77 0.0 24.3 36.5#



#37
 Ethyl Acetate
 Concen: 1.487 ug/l
 RT: 7.15 min Scan# 860
 Delta R.T. -0.10 min
 Lab File: VW011833.D
 Acq: 10 Aug 2019 01:09

Tgt Ion: 43 Resp: 2994
 Ion Ratio Lower Upper
 43 100
 61 78.1 8.8 13.2#
 70 0.0 7.1 10.7#





#38

Carbon Tetrachloride

Concen: 6.776 ug/l

RT: 7.95 min Scan# 991

Delta R.T. -0.12 min

Lab File: VW011833.D

Acq: 10 Aug 2019 01:09

Instrument :

MSVOA_W

ClientSampleId :

TP-19

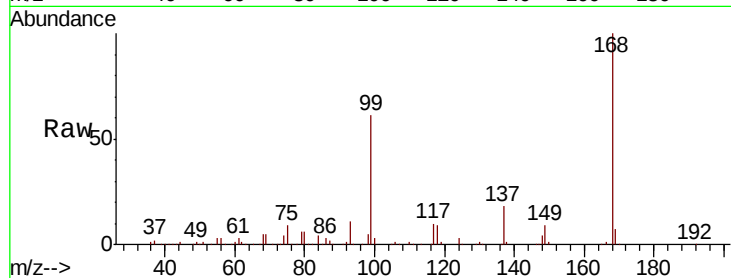
Tgt Ion:117 Resp: 20299

Ion Ratio Lower Upper

117 100

119 5.8 75.8 113.6#

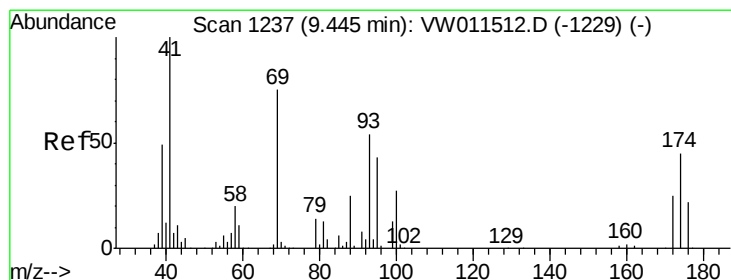
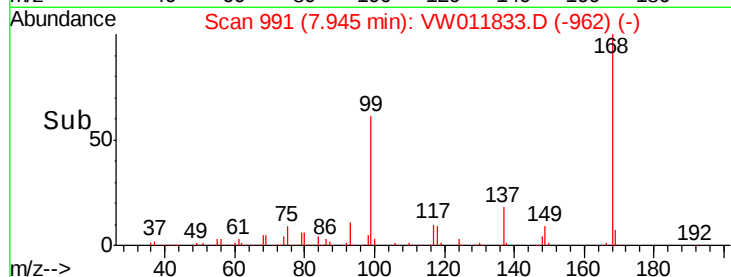
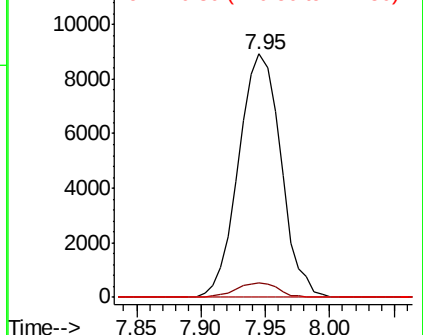
121 0.0 24.7 37.1#



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



#49

1,4-Dioxane

Concen: 1.096 ug/l

RT: 9.30 min Scan# 1214

Delta R.T. -0.14 min

Lab File: VW011833.D

Acq: 10 Aug 2019 01:09

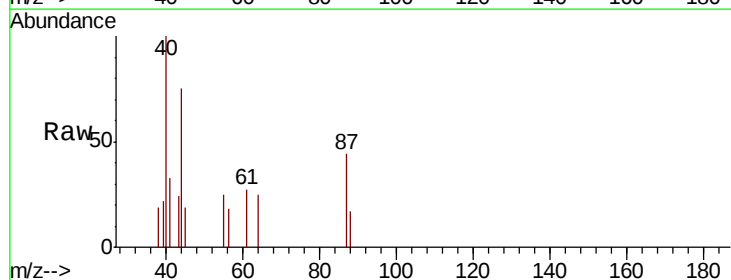
Tgt Ion: 88 Resp: 19

Ion Ratio Lower Upper

88 100

43 2589.5 34.0 51.0#

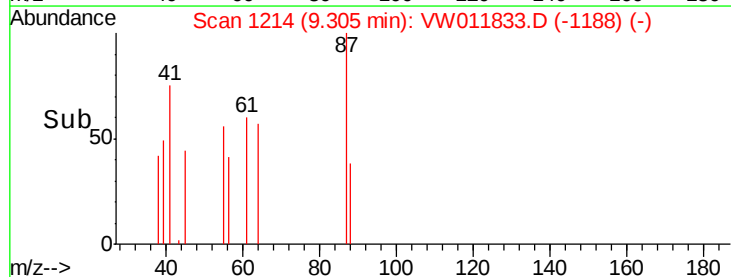
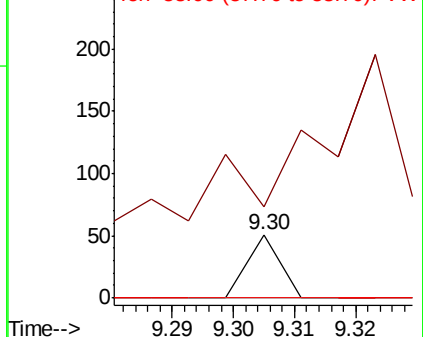
58 0.0 69.7 104.5#

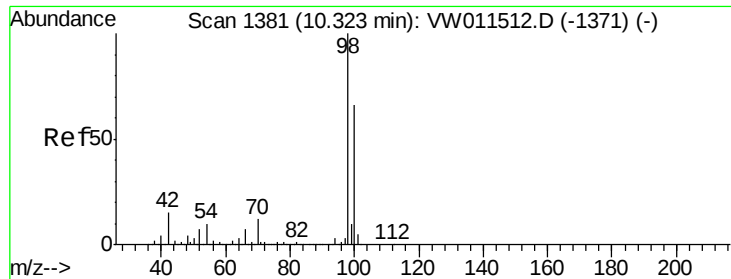


Abundance Ion 88.00 (87.70 to 88.70): VW

Ion 43.00 (42.70 to 43.70): VW

Ion 58.00 (57.70 to 58.70): VW

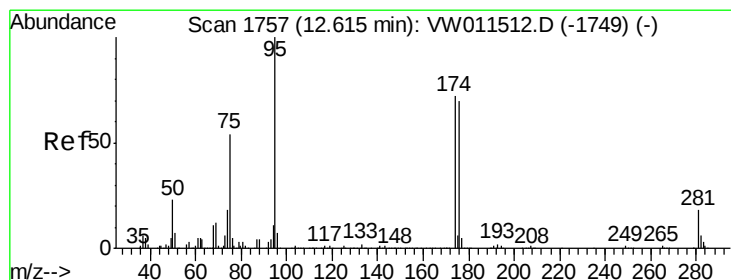
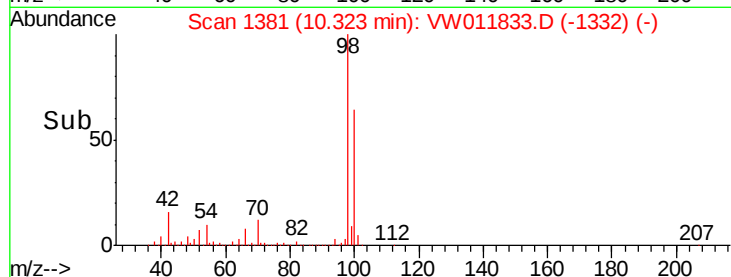
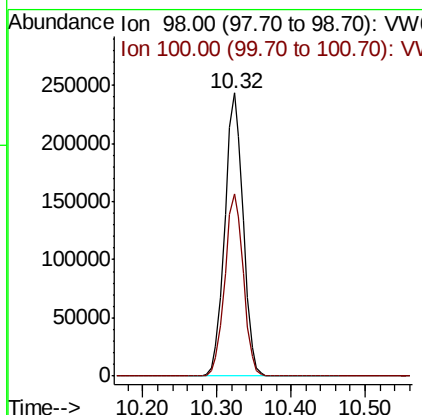
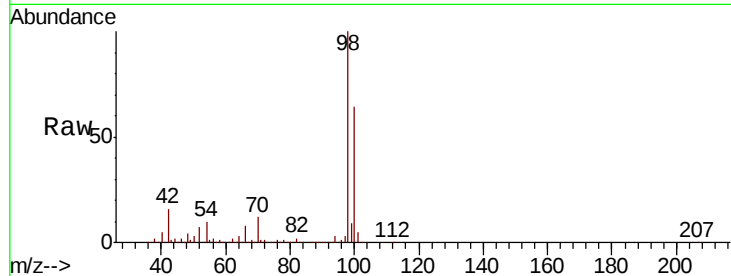




#50
Toluene-d8
Concen: 54.135 ug/l
RT: 10.32 min Scan# 1381
Delta R.T. -0.00 min
Lab File: VW011833.D
Acq: 10 Aug 2019 01:09

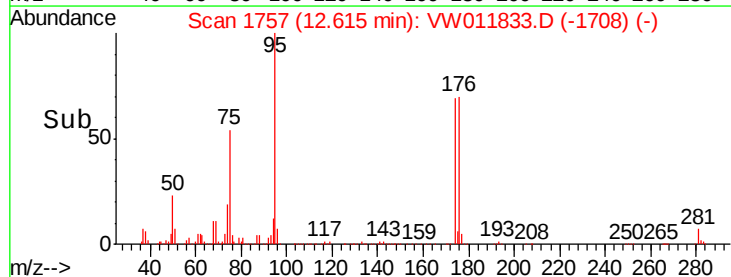
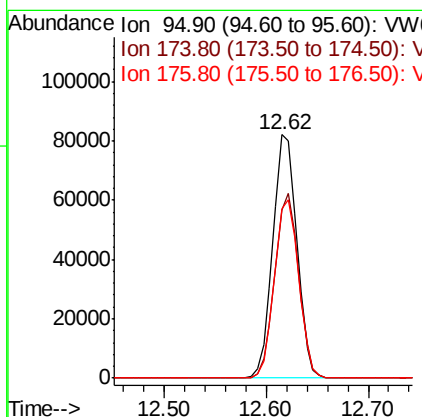
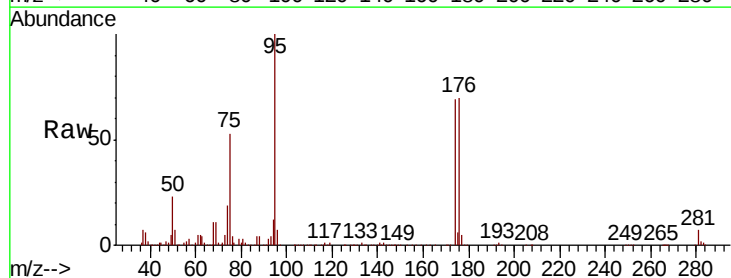
Instrument :
MSVOA_W
ClientSampled :
TP-19

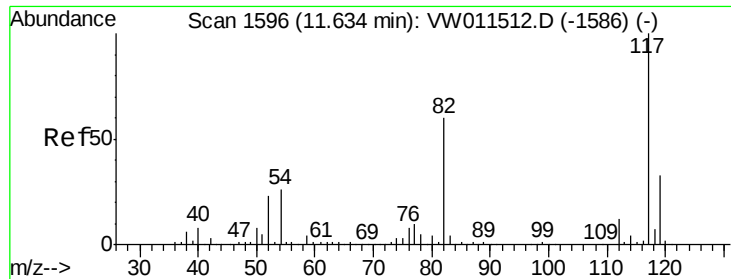
Tgt Ion: 98 Resp: 418507
Ion Ratio Lower Upper
98 100
100 64.7 52.7 79.1



#62
4-Bromofluorobenzene
Concen: 48.634 ug/l
RT: 12.62 min Scan# 1757
Delta R.T. -0.00 min
Lab File: VW011833.D
Acq: 10 Aug 2019 01:09

Tgt Ion: 95 Resp: 134044
Ion Ratio Lower Upper
95 100
174 74.7 0.0 150.2
176 73.3 0.0 144.4

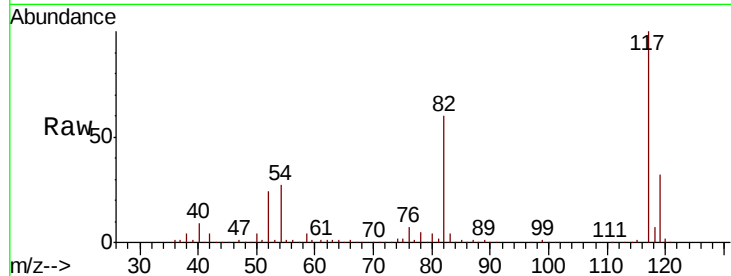




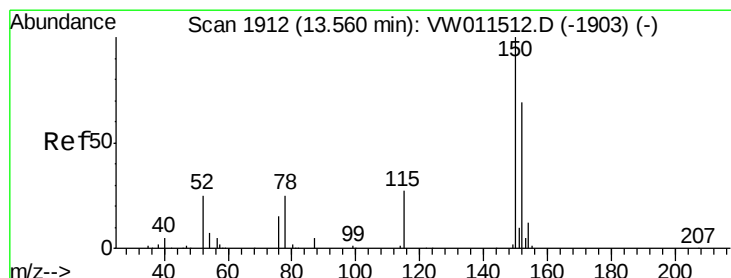
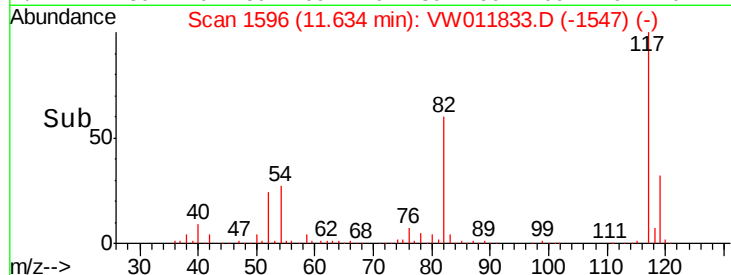
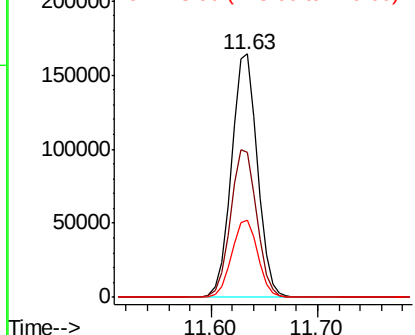
#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.63 min Scan# 1596
Delta R.T. -0.00 min
Lab File: VW011833.D
Acq: 10 Aug 2019 01:09

Instrument :
MSVOA_W
ClientSampled :
TP-19

Tgt Ion:117 Resp: 280704
Ion Ratio Lower Upper
117 100
82 59.6 47.9 71.9
119 31.9 26.2 39.2

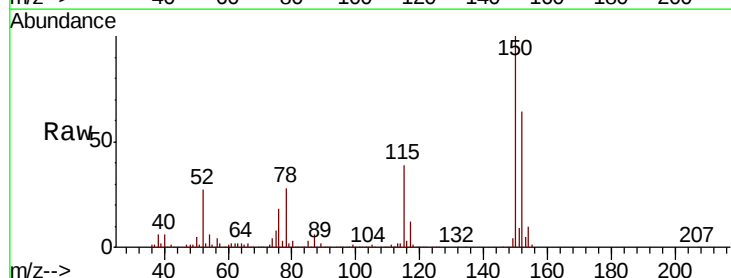


Abundance Ion 116.90 (116.60 to 117.60): V
Ion 82.00 (81.70 to 82.70): VW
Ion 118.90 (118.60 to 119.60): V

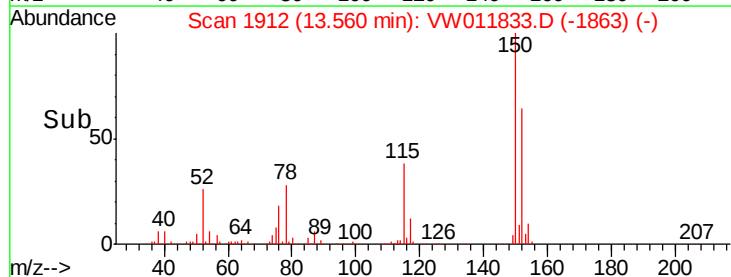
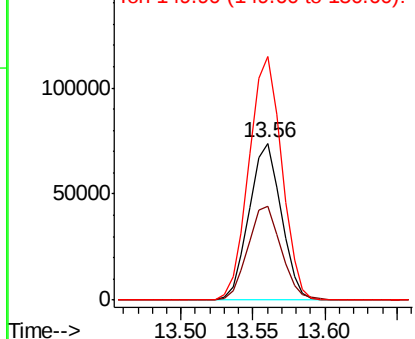


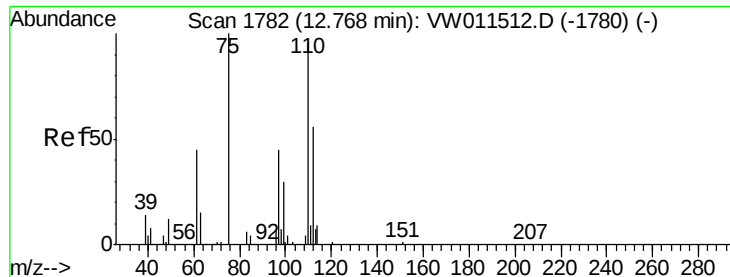
#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 13.56 min Scan# 1912
Delta R.T. -0.00 min
Lab File: VW011833.D
Acq: 10 Aug 2019 01:09

Tgt Ion:152 Resp: 114363
Ion Ratio Lower Upper
152 100
115 61.9 30.5 91.5
150 157.8 0.0 352.6



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: 60.095 ug/l

RT: 12.62 min Scan# 1757

Delta R.T. -0.15 min

Lab File: VW011833.D

Acq: 10 Aug 2019 01:09

Instrument :

MSVOA_W

ClientSampled :

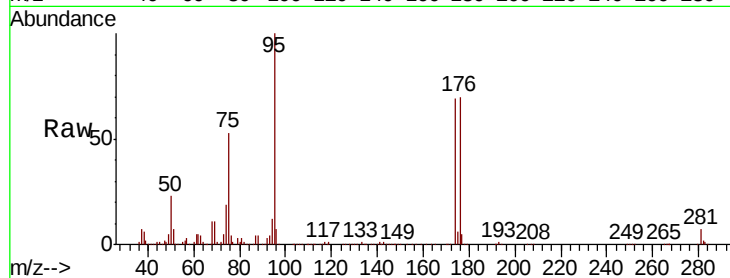
TP-19

Tgt Ion: 75 Resp: 72720

Ion Ratio Lower Upper

75 100

77 1.5 0.0 0.0#



Abundance Ion 74.90 (74.60 to 75.60): VW

Ion 77.00 (76.70 to 77.70): VW

12.62

40000

30000

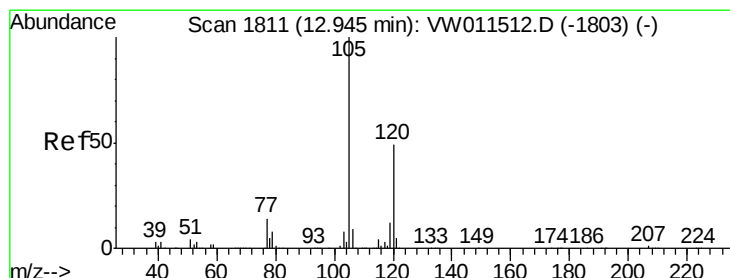
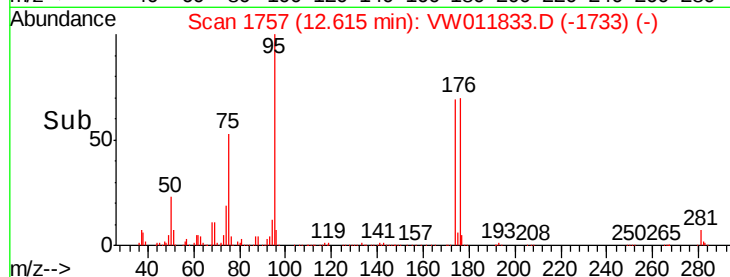
20000

10000

0

Time-->

12.60 12.70



#80

1,3,5-Trimethylbenzene

Concen: 2.835 ug/l

RT: 12.94 min Scan# 1811

Delta R.T. -0.00 min

Lab File: VW011833.D

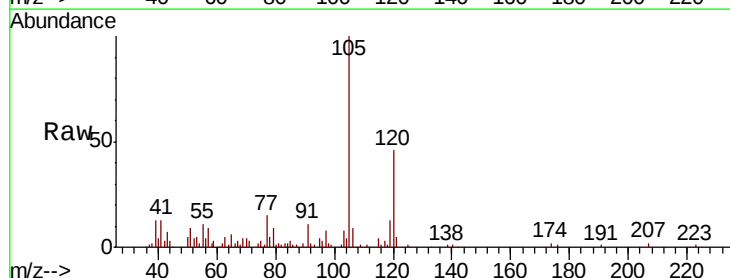
Acq: 10 Aug 2019 01:09

Tgt Ion: 105 Resp: 20273

Ion Ratio Lower Upper

105 100

120 49.5 24.1 72.3



Abundance Ion 105.00 (104.70 to 105.70): V

Ion 120.00 (119.70 to 120.70): V

12.94

15000

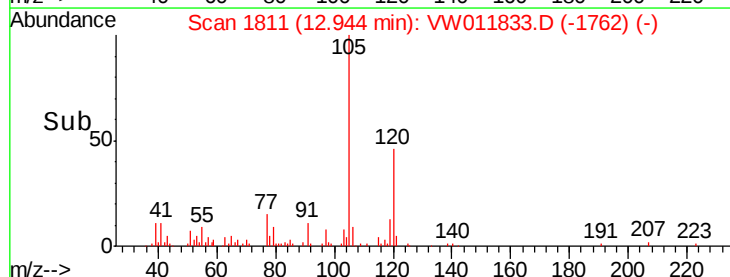
10000

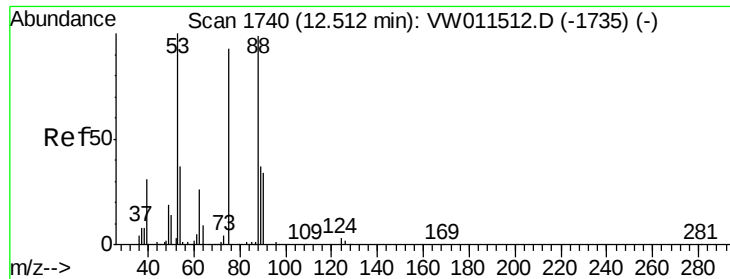
5000

0

Time-->

12.90 12.95 13.00





#81

trans-1,4-Dichloro-2-butene

Concen: 138.497 ug/l

RT: 12.62 min Scan# 1757

Delta R.T. 0.10 min

Lab File: VW011833.D

Acq: 10 Aug 2019 01:09

Instrument :

MSVOA_W

ClientSampleId :

TP-19

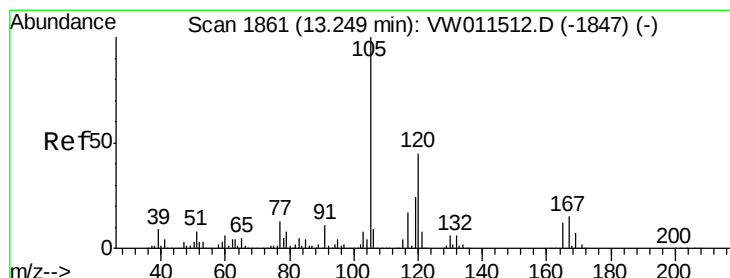
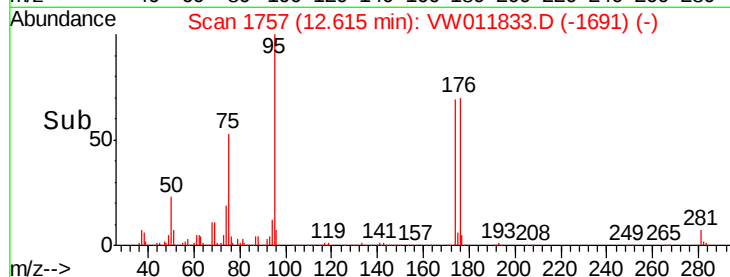
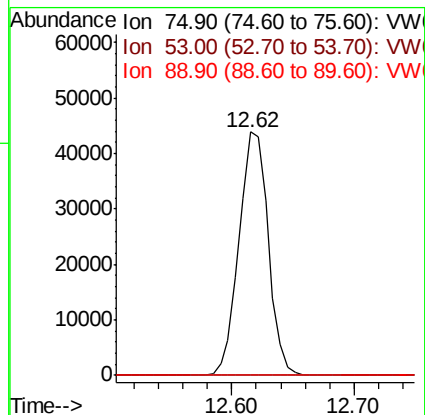
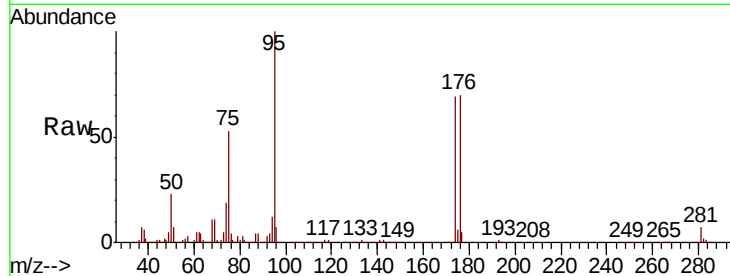
Tgt Ion: 75 Resp: 72720

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: 6.179 ug/l

RT: 13.25 min Scan# 1861

Delta R.T. -0.00 min

Lab File: VW011833.D

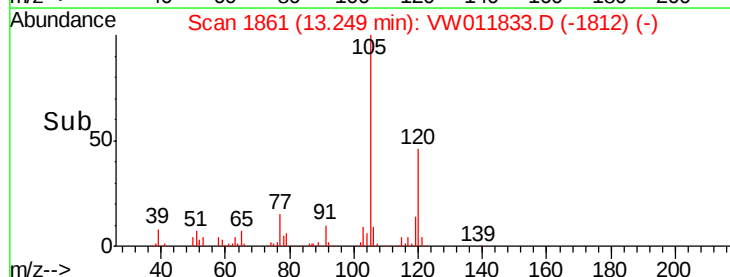
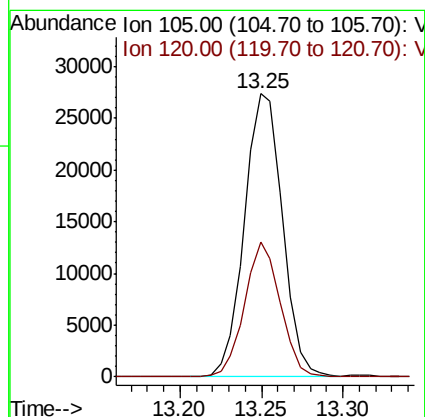
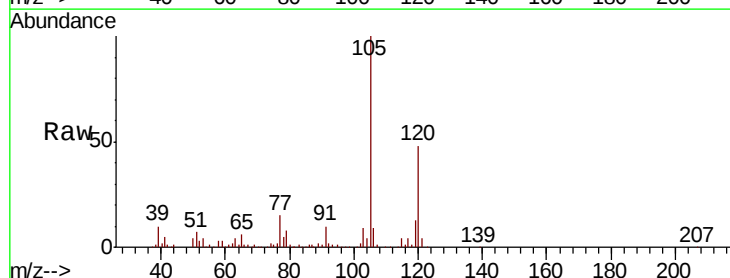
Acq: 10 Aug 2019 01:09

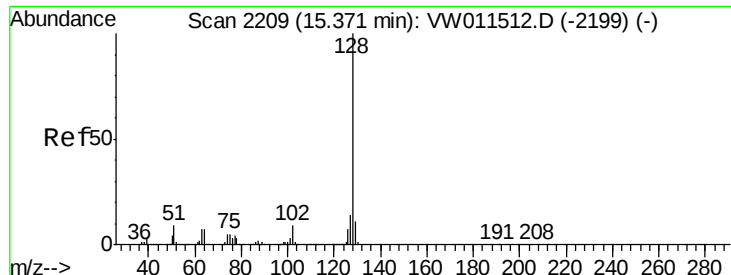
Tgt Ion: 105 Resp: 44515

Ion Ratio Lower Upper

105 100

120 45.0 22.1 66.5





#95

Naphthalene

Concen: 2.337 ug/l

RT: 15.37 min Scan# 2209

Delta R.T. 0.00 min

Lab File: VW011833.D

Acq: 10 Aug 2019 01:09

Instrument :

MSVOA_W

ClientSampleId :

TP-19

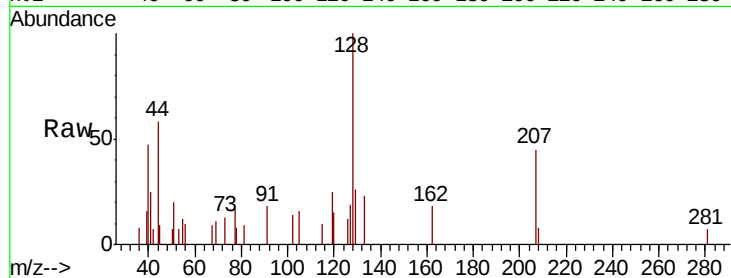
Tgt Ion:128 Resp: 1275

Ion Ratio Lower Upper

128 100

127 19.0 10.6 16.0#

129 19.9 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

