

Data Path : Z:\VOASRV\HPCHEM1\MSVOA_W\DATA\VW091619\
 Data File : VW013049.D
 Acq On : 16 Sep 2019 18:33
 Operator : SY/VA
 Sample : K4819-06
 Misc : 5.53G/5ML/MSVOA_W/SOIL
 ALS Vial : 20 Sample Multiplier: 1

Instrument :
 MSVOA_W
 ClientSampleId :
 TP-7-S2(3.5-4)

Quant Time: Sep 17 07:23:08 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_W\METHOD\82W091419S.M
 Quant Title : SW846 8260
 QLast Update : Fri Sep 13 17:26:01 2019
 Response via : Initial Calibration

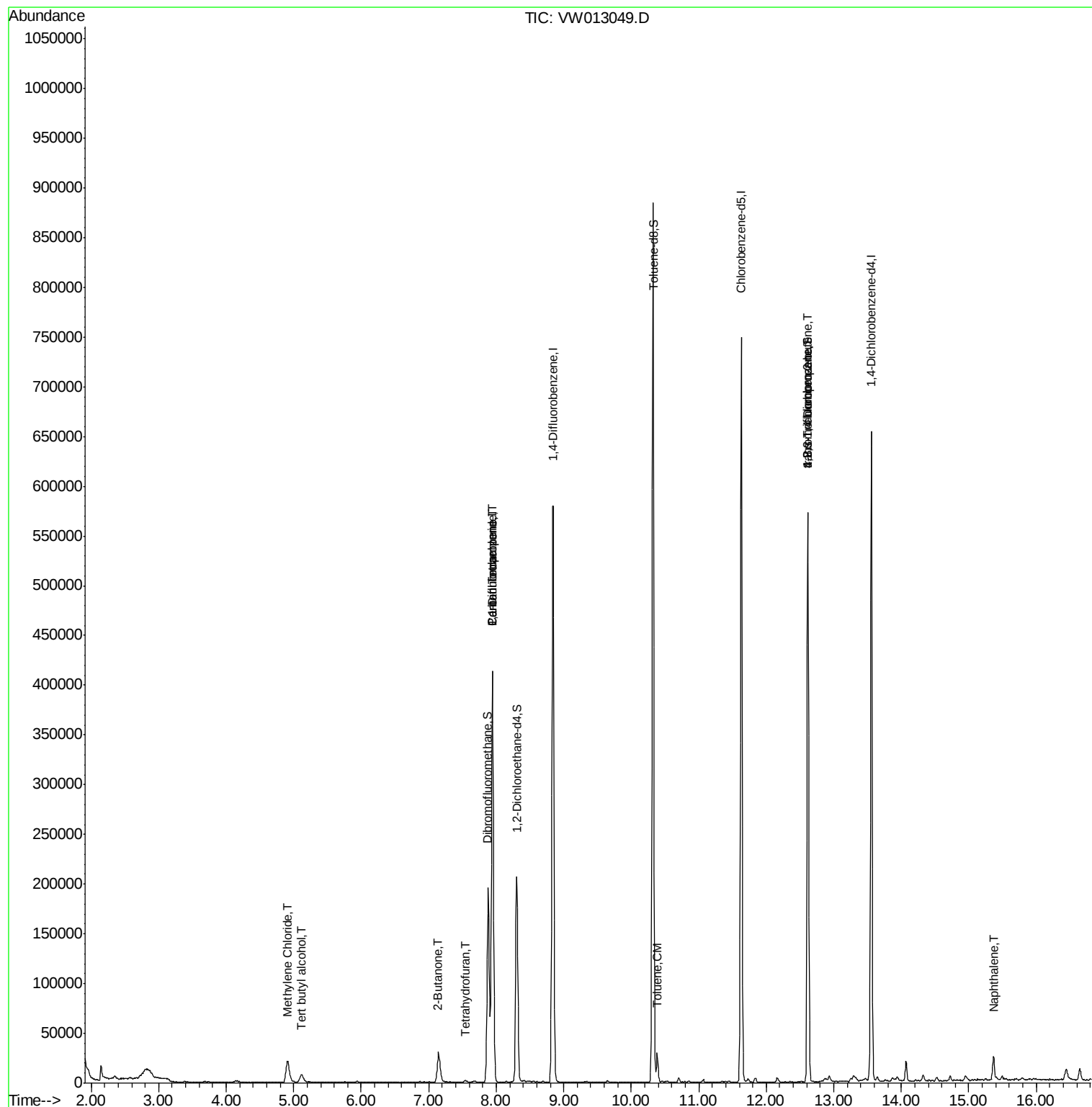
Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	7.95	168	323334	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	8.84	114	490001	50.00	ug/l	0.00
63) Chlorobenzene-d5	11.63	117	413603	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.56	152	174603	50.00	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	8.30	65	163514	54.76	ug/l	0.00
Spiked Amount 50.000			Recovery	=	109.52%	
35) Dibromofluoromethane	7.88	113	140235	52.74	ug/l	0.00
Spiked Amount 50.000			Recovery	=	105.48%	
50) Toluene-d8	10.32	98	579748	55.72	ug/l	0.00
Spiked Amount 50.000			Recovery	=	111.44%	
62) 4-Bromofluorobenzene	12.62	95	183468	49.04	ug/l	0.00
Spiked Amount 50.000			Recovery	=	98.08%	
Target Compounds						
					Qvalue	
2) Dichlorodifluoromethane	2.01	85	47	Below Cal	#	44
3) Chloromethane	2.21	50	445	Below Cal	#	33
11) Tert butyl alcohol	5.11	59	7558	17.580	ug/l #	75
13) Acrolein	3.62	56	21	Below Cal	#	15
16) Acetone	4.14	43	4227	Below Cal	#	79
20) Methylene Chloride	4.90	84	17994	2.535	ug/l	94
25) 2-Butanone	7.13	43	2238	2.357	ug/l #	85
26) 2,2-Dichloropropane	7.15	77	2086	Below Cal	#	55
29) Tetrahydrofuran	7.54	42	1435	2.652	ug/l #	72
31) Cyclohexane	7.95	56	6351	Below Cal	#	1
36) 1,1-Dichloropropene	7.95	75	24356	6.220	ug/l #	51
38) Carbon Tetrachloride	7.95	117	29849	7.439	ug/l #	14
52) Toluene	10.38	92	12303	1.771	ug/l	99
76) 1,2,3-Trichloropropane	12.62	75	92871	60.724	ug/l #	100
81) trans-1,4-Dichloro-2-buten	12.62	75	92871	137.752	ug/l #	7
95) Naphthalene	15.36	128	20740	3.750	ug/l	100

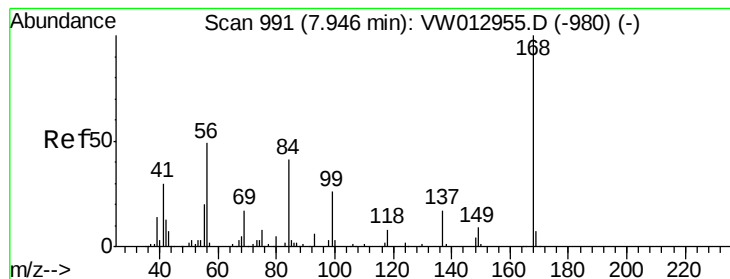
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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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: VW013049.D

Acq: 16 Sep 2019 18:33

Instrument :

MSVOA_W

ClientSampleId :

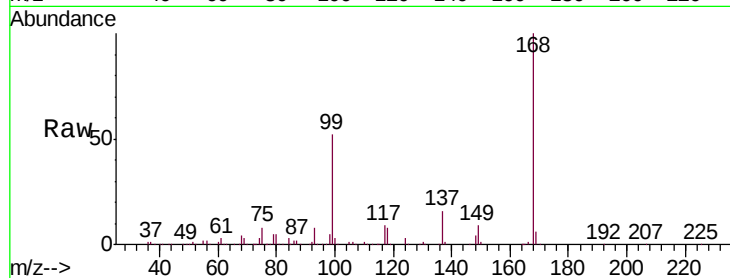
TP-7-S2(3.5-4)

Tgt Ion:168 Resp: 323334

Ion Ratio Lower Upper

168 100

99 52.1 46.2 69.2



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VW

7.95

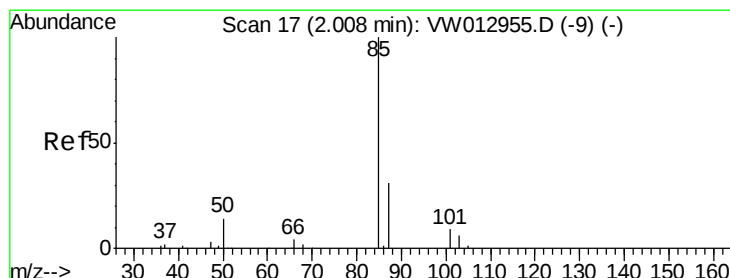
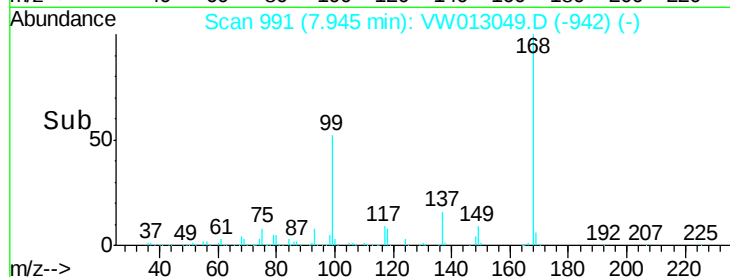
150000

100000

50000

0

Time-->



#2

Dichlorodifluoromethane

Concen: Below Cal

RT: 2.01 min Scan# 18

Delta R.T. 0.01 min

Lab File: VW013049.D

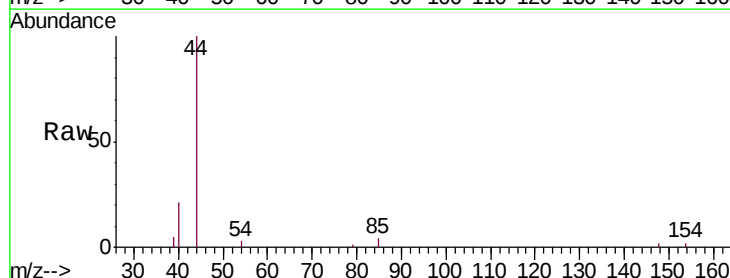
Acq: 16 Sep 2019 18:33

Tgt Ion: 85 Resp: 47

Ion Ratio Lower Upper

85 100

87 0.0 15.4 46.4#



Abundance Ion 84.90 (84.60 to 85.60): VW

Ion 86.90 (86.60 to 87.60): VW

2.01

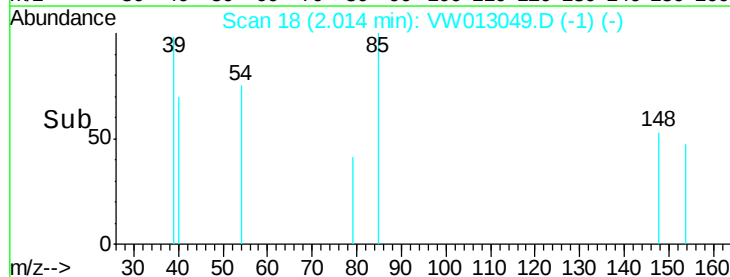
150

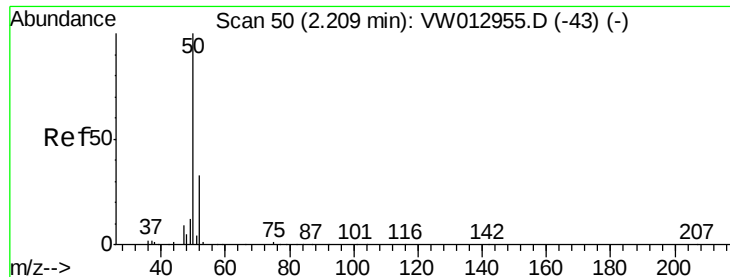
100

50

0

Time-->





#3

Chloromethane

Concen: Below Cal

RT: 2.21 min Scan# 51

Delta R.T. 0.01 min

Lab File: VW013049.D

Acq: 16 Sep 2019 18:33

Instrument :

MSVOA_W

ClientSampleId :

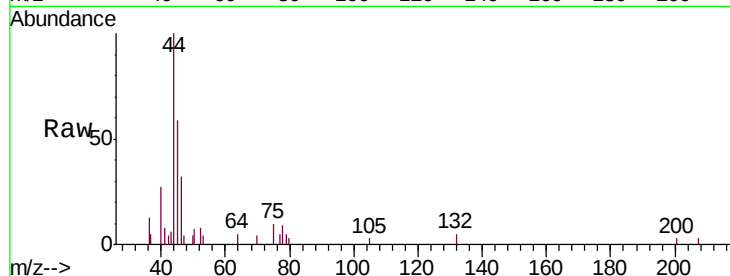
TP-7-S2(3.5-4)

Tgt Ion: 50 Resp: 445

Ion Ratio Lower Upper

50 100

52 71.0 26.6 39.8#

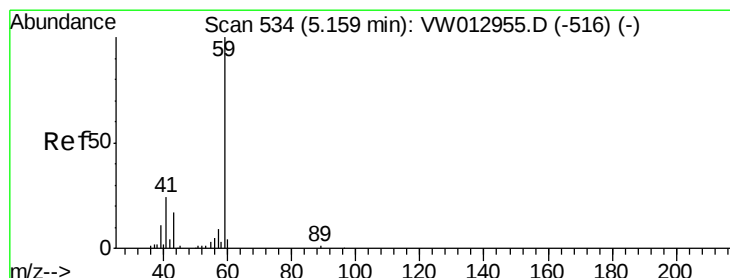
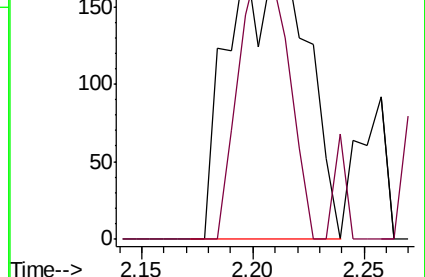
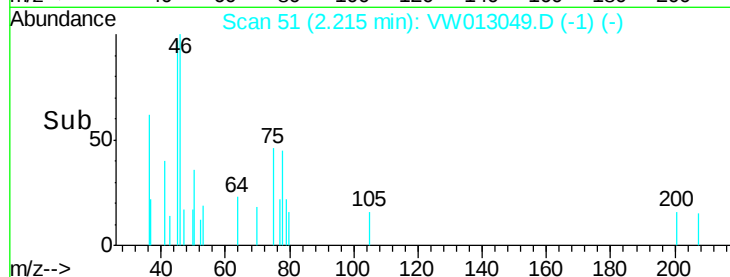


Abundance Ion 49.90 (49.60 to 50.60): VW

Ion 51.90 (51.60 to 52.60): VW

2.21

Time-->



#11

Tert butyl alcohol

Concen: 17.580 ug/l

RT: 5.11 min Scan# 526

Delta R.T. -0.05 min

Lab File: VW013049.D

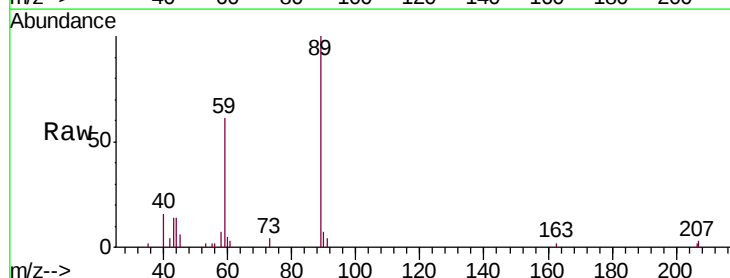
Acq: 16 Sep 2019 18:33

Tgt Ion: 59 Resp: 7558

Ion Ratio Lower Upper

59 100

57 1.2 8.5 12.7#

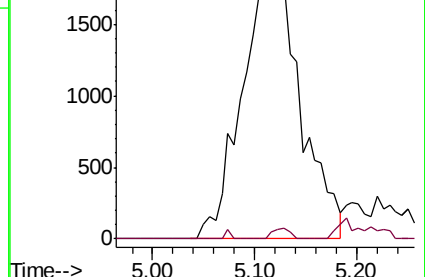
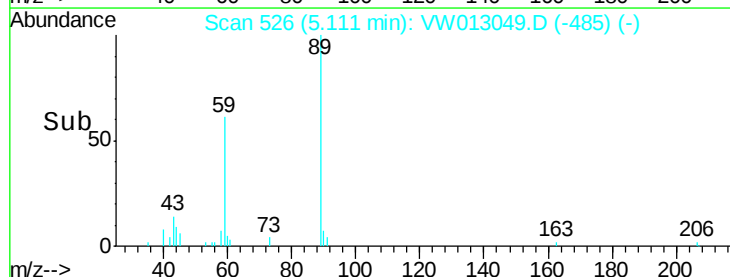


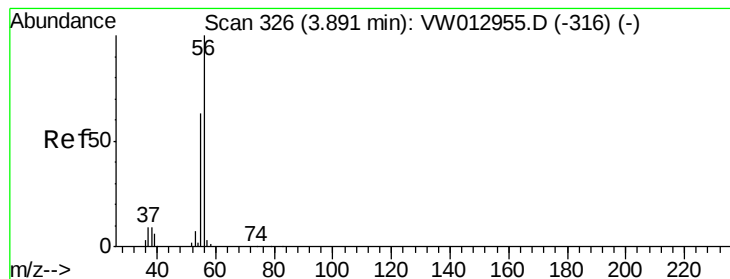
Abundance Ion 59.00 (58.70 to 59.70): VW

Ion 57.00 (56.70 to 57.70): VW

5.11

Time-->





#13

Acrolein

Concen: Below Cal

RT: 3.62 min Scan# 282

Delta R.T. -0.27 min

Lab File: VW013049.D

Acq: 16 Sep 2019 18:33

Instrument :

MSVOA_W

ClientSampleId :

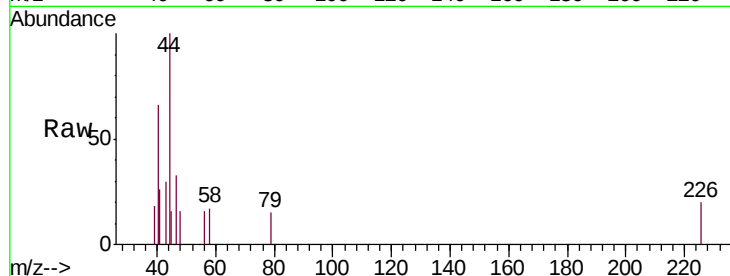
TP-7-S2(3.5-4)

Tgt Ion: 56 Resp: 21

Ion Ratio Lower Upper

56 100

55 0.0 55.8 83.8#

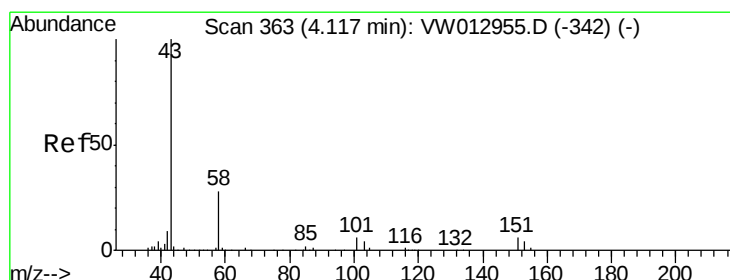
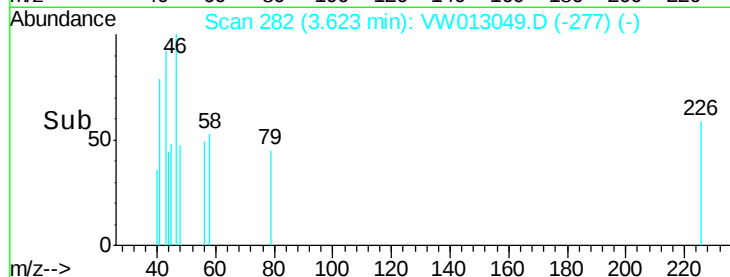


Abundance Ion 56.00 (55.70 to 56.70): VW

Ion 55.00 (54.70 to 55.70): VW

3.62

Time--> 3.60 3.61 3.62 3.63 3.64



#16

Acetone

Concen: Below Cal

RT: 4.14 min Scan# 367

Delta R.T. 0.03 min

Lab File: VW013049.D

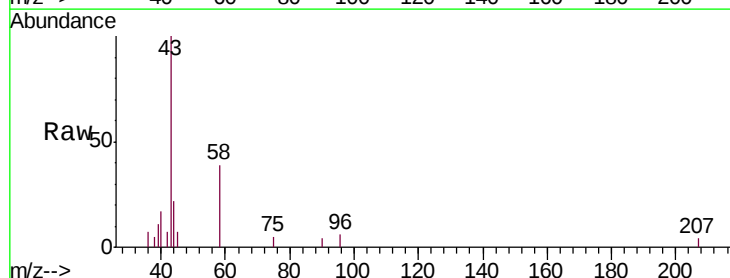
Acq: 16 Sep 2019 18:33

Tgt Ion: 43 Resp: 4227

Ion Ratio Lower Upper

43 100

58 38.8 22.3 33.5#

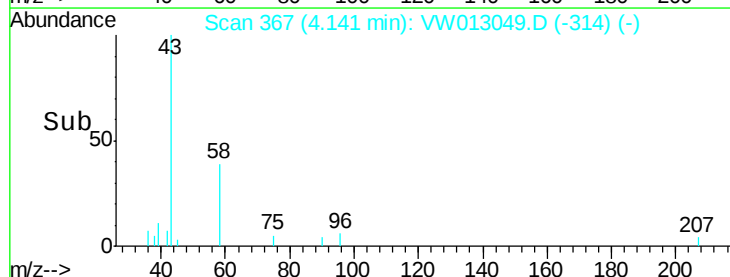


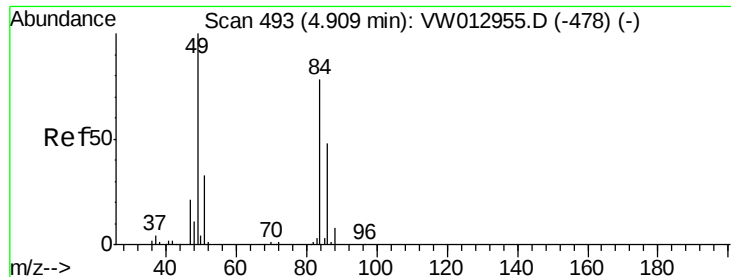
Abundance Ion 43.00 (42.70 to 43.70): VW

Ion 58.00 (57.70 to 58.70): VW

4.14

Time--> 4.00 4.10 4.20

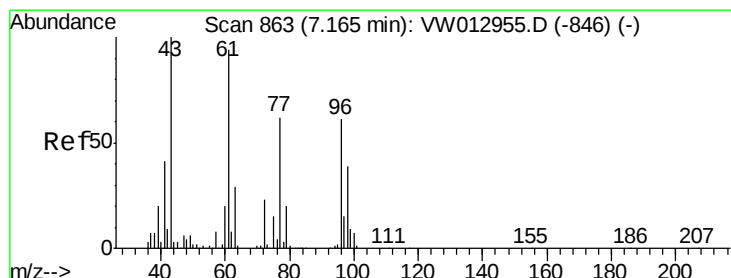
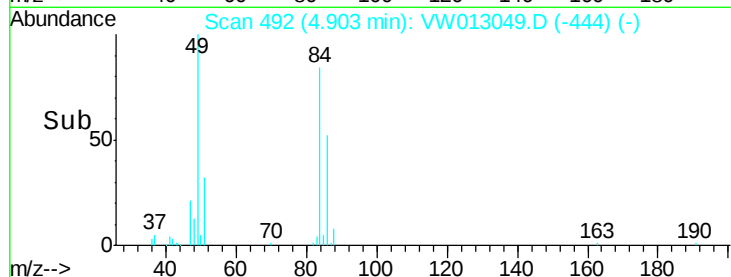
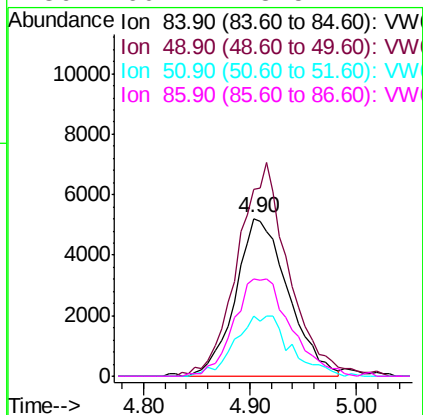
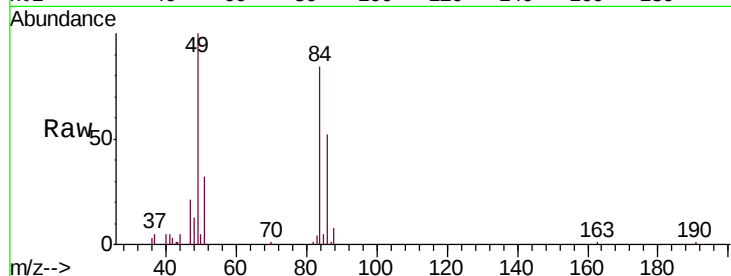




#20
Methylene Chloride
Concen: 2.535 ug/l
RT: 4.90 min Scan# 492
Delta R.T. -0.01 min
Lab File: VW013049.D
Acq: 16 Sep 2019 18:33

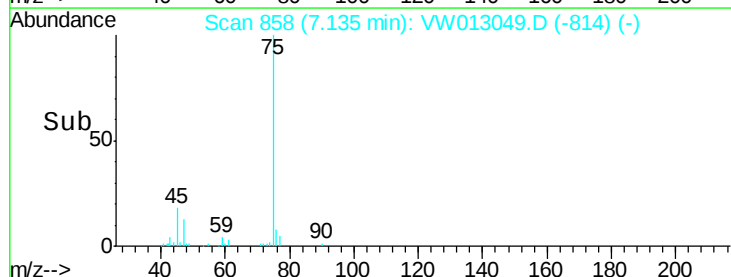
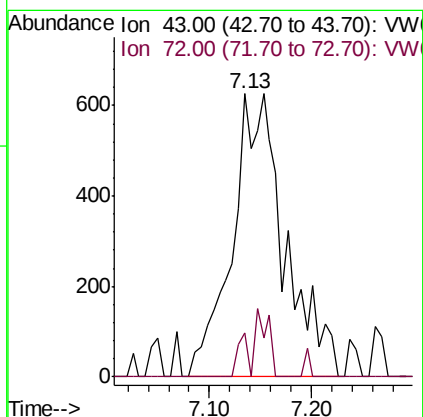
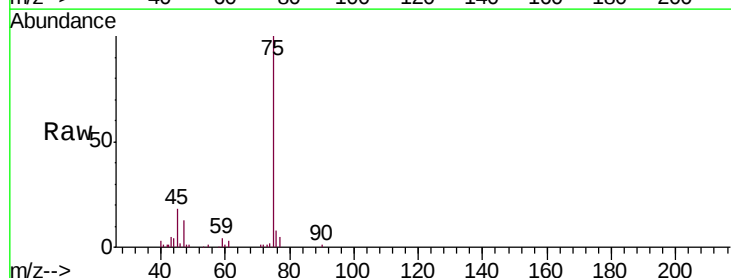
Instrument :
MSVOA_W
ClientSampleId :
TP-7-S2(3.5-4)

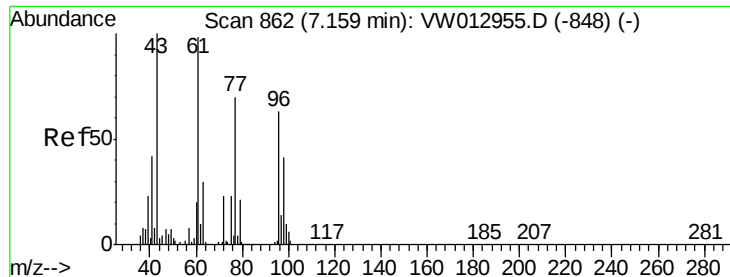
Tgt Ion:	84	Resp:	17994
Ion	Ratio	Lower	Upper
84	100		
49	116.7	102.0	153.0
51	38.2	34.0	51.0
86	60.4	48.5	72.7



#25
2-Butanone
Concen: 2.357 ug/l
RT: 7.13 min Scan# 858
Delta R.T. -0.03 min
Lab File: VW013049.D
Acq: 16 Sep 2019 18:33

Tgt Ion:	43	Resp:	2238
Ion	Ratio	Lower	Upper
43	100		
72	15.7	18.2	27.4#





#26

2,2-Dichloropropane

Concen: Below Cal

RT: 7.15 min Scan# 861

Delta R.T. -0.01 min

Lab File: VW013049.D

Acq: 16 Sep 2019 18:33

Instrument :

MSVOA_W

ClientSampleId :

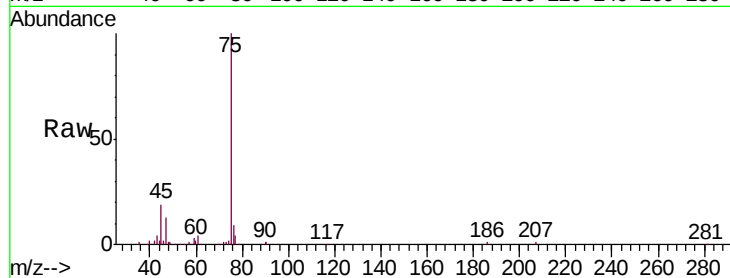
TP-7-S2(3.5-4)

Tgt Ion: 77 Resp: 2086

Ion Ratio Lower Upper

77 100

97 0.0 10.7 32.1#



Abundance Ion 76.90 (76.60 to 77.60): VW

Ion 96.90 (96.60 to 97.60): VW

7.15

800

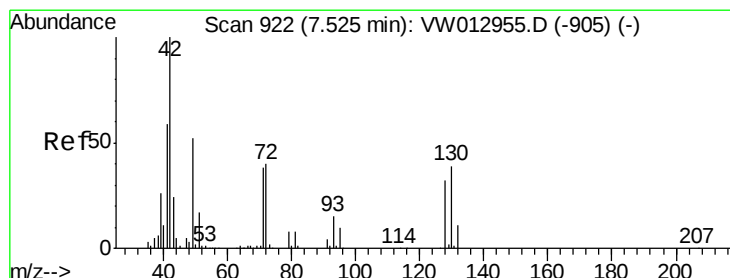
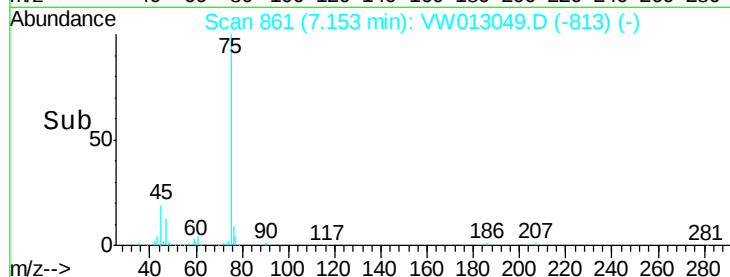
600

400

200

0

Time-->



#29

Tetrahydrofuran

Concen: 2.652 ug/l

RT: 7.54 min Scan# 925

Delta R.T. 0.02 min

Lab File: VW013049.D

Acq: 16 Sep 2019 18:33

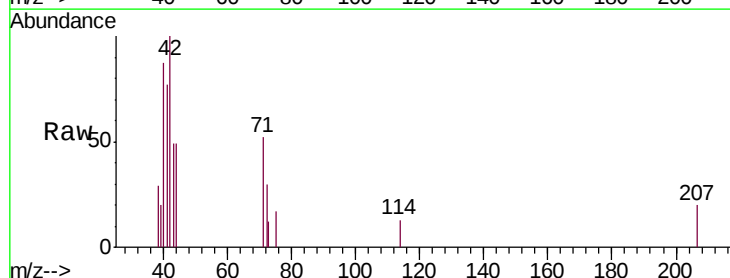
Tgt Ion: 42 Resp: 1435

Ion Ratio Lower Upper

42 100

72 20.1 31.4 47.0#

71 22.6 29.8 44.8#



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

600

500

400

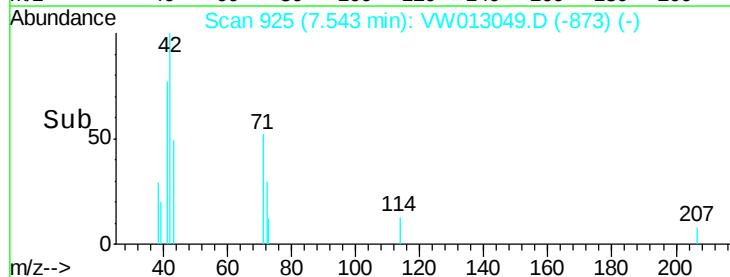
300

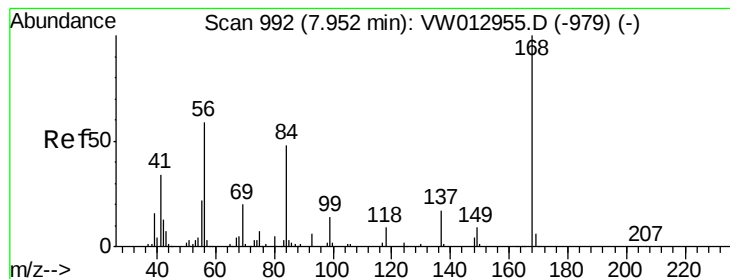
200

100

0

Time-->





#31

Cyclohexane

Concen: Below Cal

RT: 7.95 min Scan# 991

Delta R.T. -0.01 min

Lab File: VW013049.D

Acq: 16 Sep 2019 18:33

Instrument :

MSVOA_W

ClientSampleId :

TP-7-S2(3.5-4)

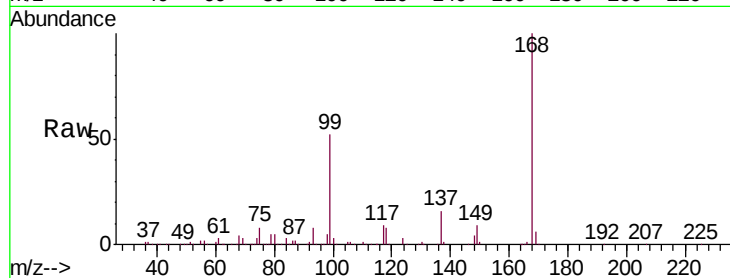
Tgt Ion: 56 Resp: 6351

Ion Ratio Lower Upper

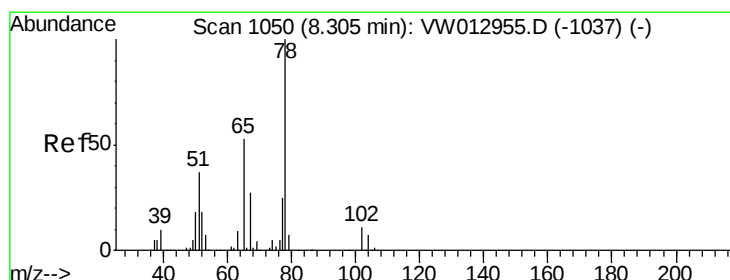
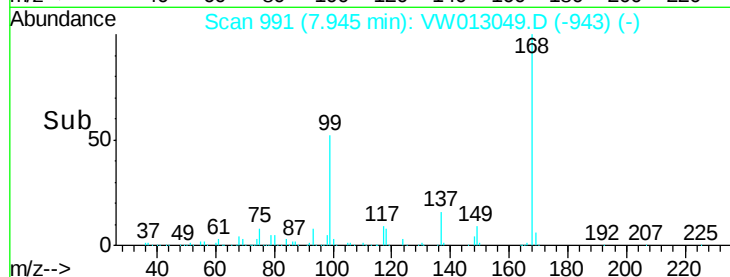
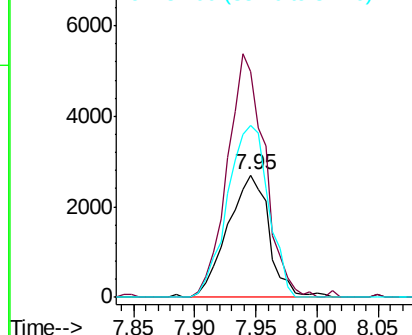
56 100

69 184.7 27.0 40.6#

84 140.2 66.2 99.2#



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: 54.756 ug/l

RT: 8.30 min Scan# 1049

Delta R.T. -0.01 min

Lab File: VW013049.D

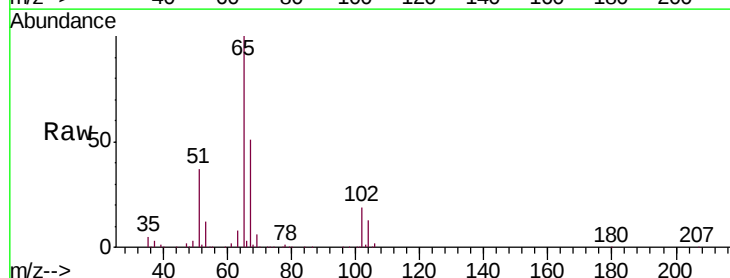
Acq: 16 Sep 2019 18:33

Tgt Ion: 65 Resp: 163514

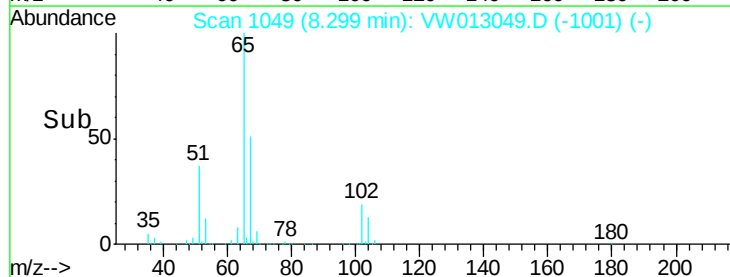
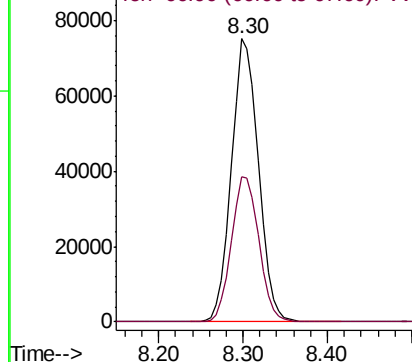
Ion Ratio Lower Upper

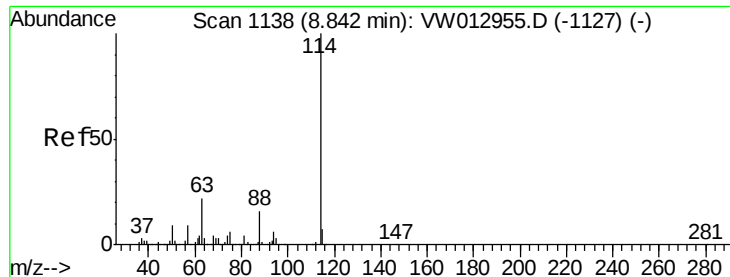
65 100

67 52.1 0.0 101.2



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

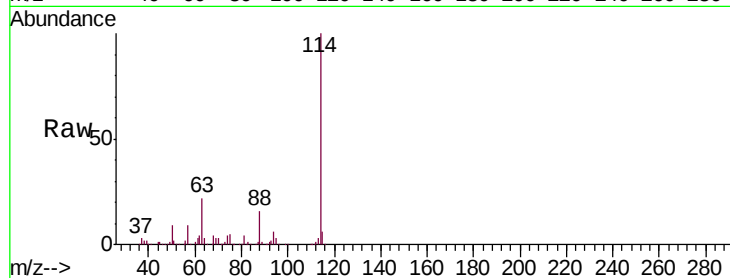




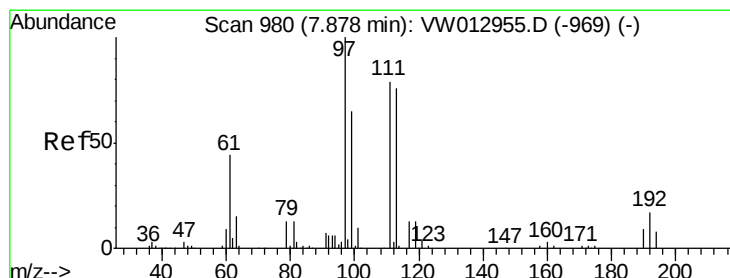
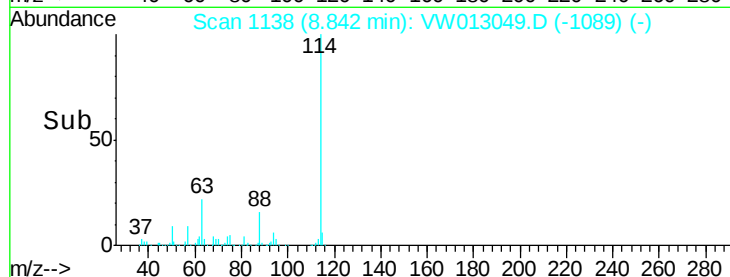
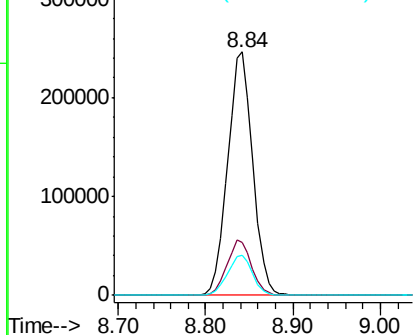
#34
 1,4-Difluorobenzene
 Concen: 50.000 ug/l
 RT: 8.84 min Scan# 1138
 Delta R.T. -0.00 min
 Lab File: VW013049.D
 Acq: 16 Sep 2019 18:33

Instrument :
 MSVOA_W
 ClientSampleId :
 TP-7-S2(3.5-4)

Tgt Ion:114 Resp: 490001
 Ion Ratio Lower Upper
 114 100
 63 21.5 0.0 43.4
 88 16.2 0.0 31.6

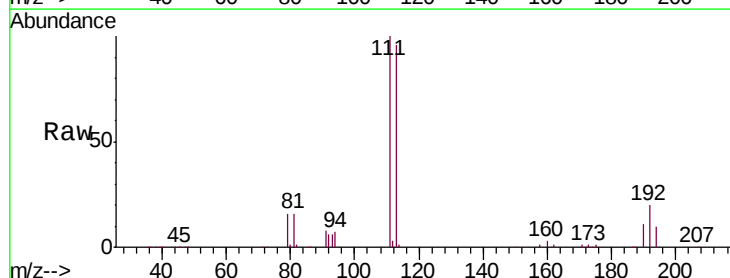


Abundance Ion 113.90 (113.60 to 114.60): V
 Ion 63.00 (62.70 to 63.70): VW
 Ion 87.90 (87.60 to 88.60): VW

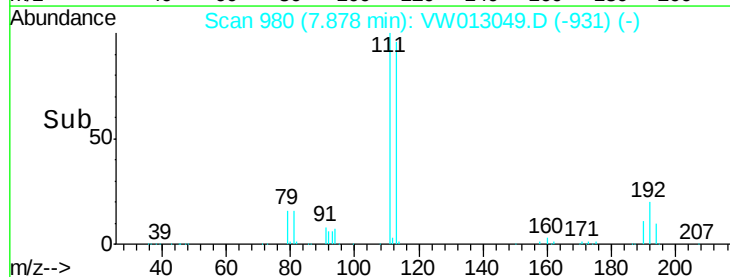
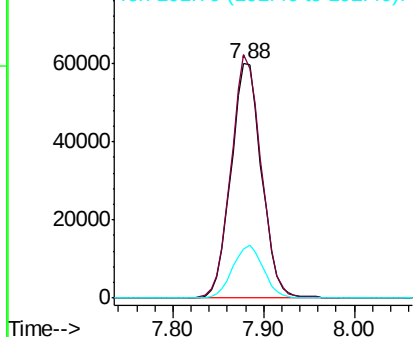


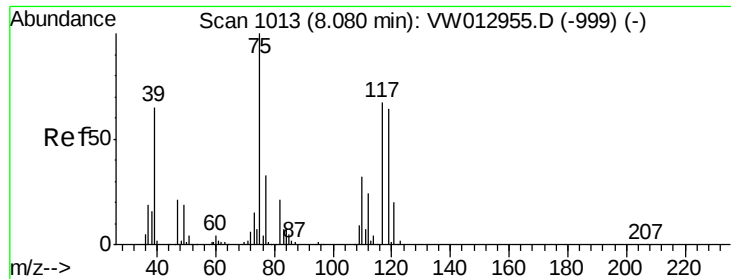
#35
 Dibromofluoromethane
 Concen: 52.744 ug/l
 RT: 7.88 min Scan# 980
 Delta R.T. -0.00 min
 Lab File: VW013049.D
 Acq: 16 Sep 2019 18:33

Tgt Ion:113 Resp: 140235
 Ion Ratio Lower Upper
 113 100
 111 102.8 82.8 124.2
 192 22.7 17.8 26.8



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

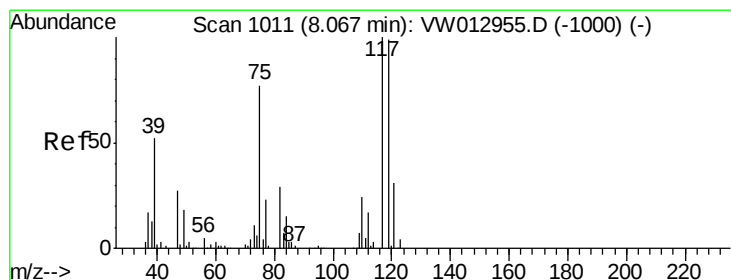
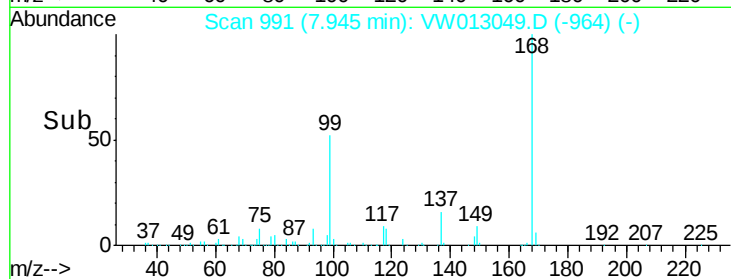
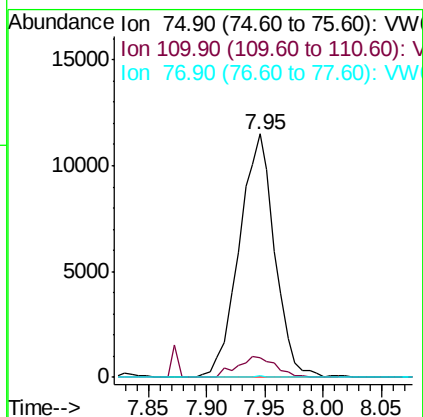
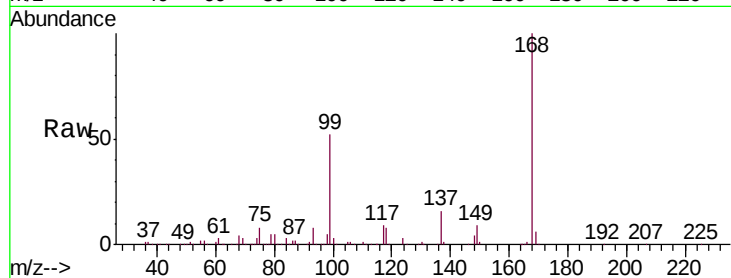




#36
 1,1-Dichloropropene
 Concen: 6.220 ug/l
 RT: 7.95 min Scan# 991
 Delta R.T. -0.13 min
 Lab File: VW013049.D
 Acq: 16 Sep 2019 18:33

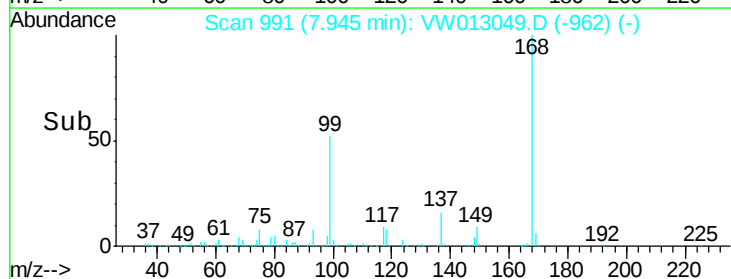
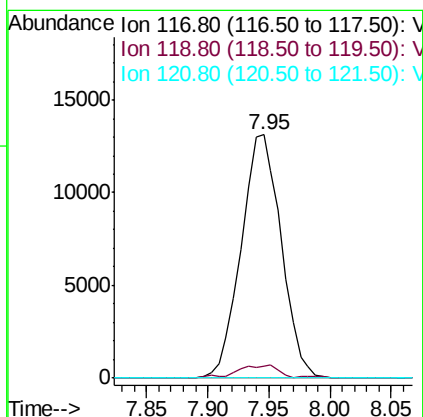
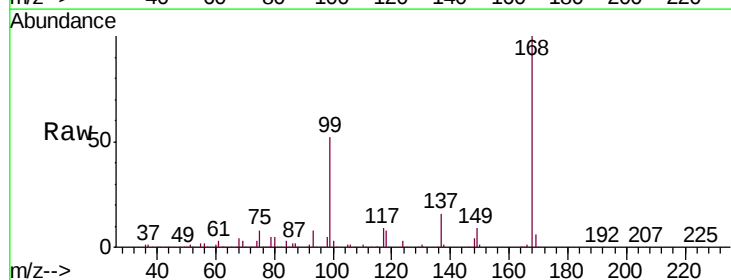
Instrument :
 MSVOA_W
 ClientSampleId :
 TP-7-S2(3.5-4)

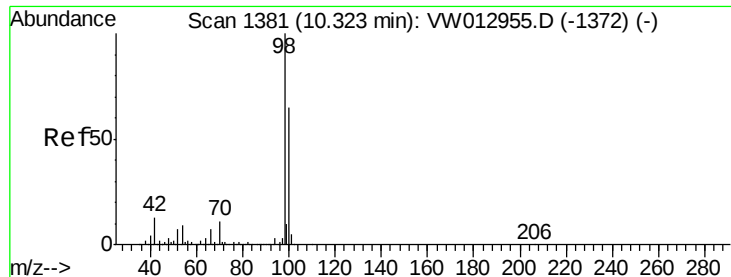
Tgt Ion: 75 Resp: 24356
 Ion Ratio Lower Upper
 75 100
 110 9.1 16.4 49.1#
 77 0.0 25.1 37.7#



#38
 Carbon Tetrachloride
 Concen: 7.439 ug/l
 RT: 7.95 min Scan# 991
 Delta R.T. -0.12 min
 Lab File: VW013049.D
 Acq: 16 Sep 2019 18:33

Tgt Ion: 117 Resp: 29849
 Ion Ratio Lower Upper
 117 100
 119 4.9 79.4 119.0#
 121 0.0 24.6 36.8#





#50

Toluene-d8

Concen: 55.723 ug/l

RT: 10.32 min Scan# 1381

Delta R.T. -0.00 min

Lab File: VW013049.D

Acq: 16 Sep 2019 18:33

Instrument :

MSVOA_W

ClientSampleId :

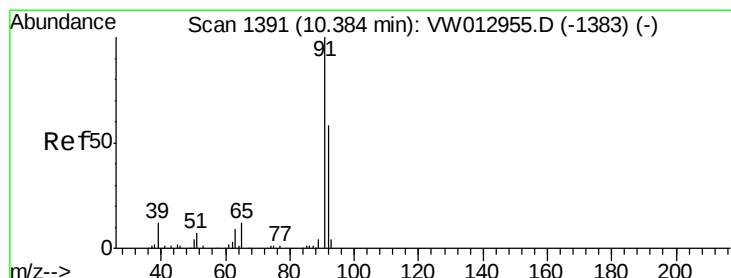
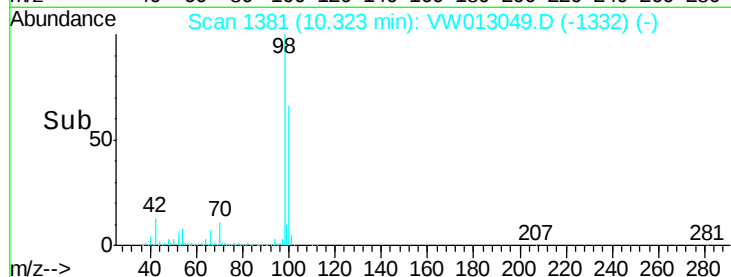
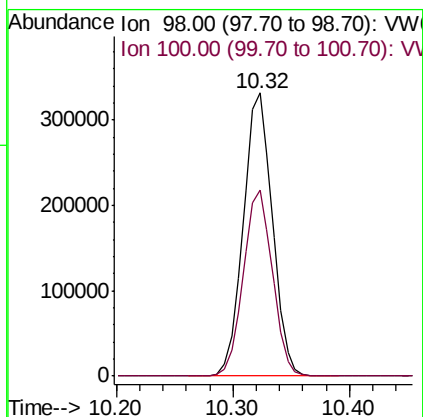
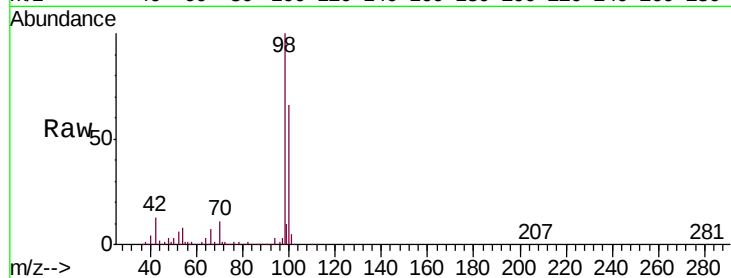
TP-7-S2(3.5-4)

Tgt Ion: 98 Resp: 579748

Ion Ratio Lower Upper

98 100

100 65.6 52.1 78.1



#52

Toluene

Concen: 1.771 ug/l

RT: 10.38 min Scan# 1391

Delta R.T. -0.00 min

Lab File: VW013049.D

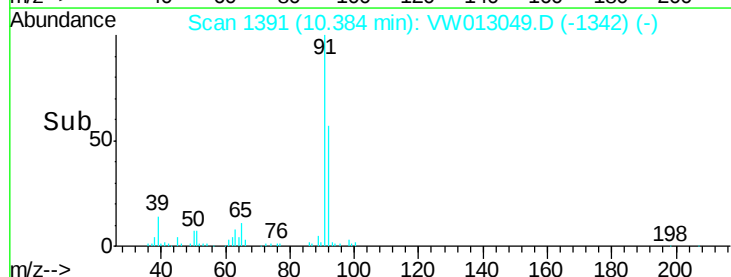
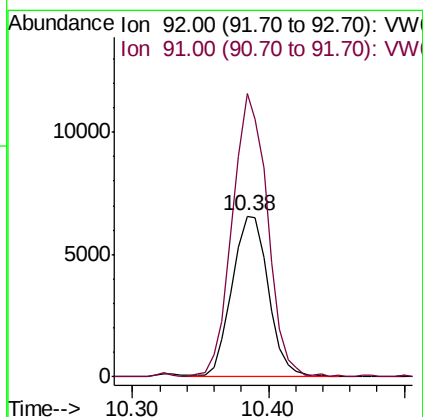
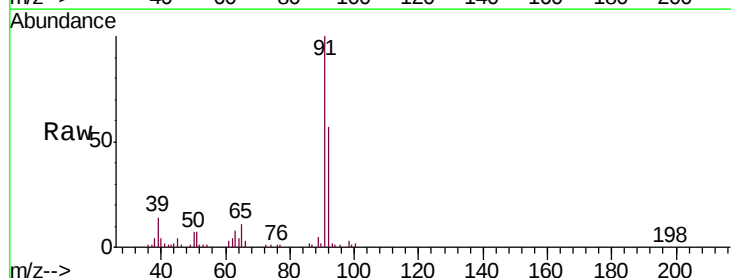
Acq: 16 Sep 2019 18:33

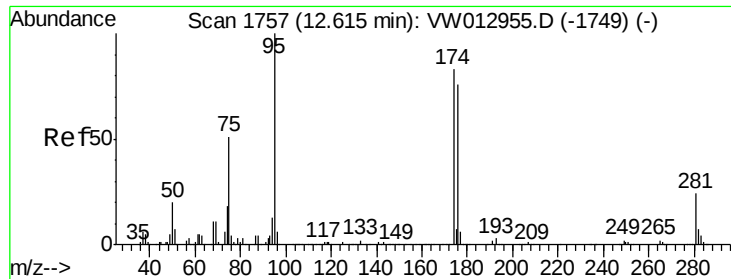
Tgt Ion: 92 Resp: 12303

Ion Ratio Lower Upper

92 100

91 169.8 137.5 206.3





#62

4-Bromofluorobenzene

Concen: 49.041 ug/l

RT: 12.62 min Scan# 1757

Delta R.T. -0.00 min

Lab File: VW013049.D

Acq: 16 Sep 2019 18:33

Instrument :

MSVOA_W

ClientSampleId :

TP-7-S2(3.5-4)

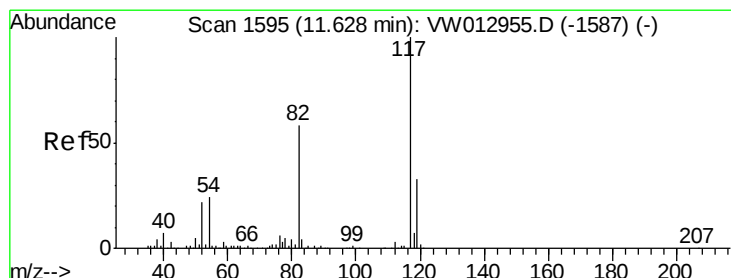
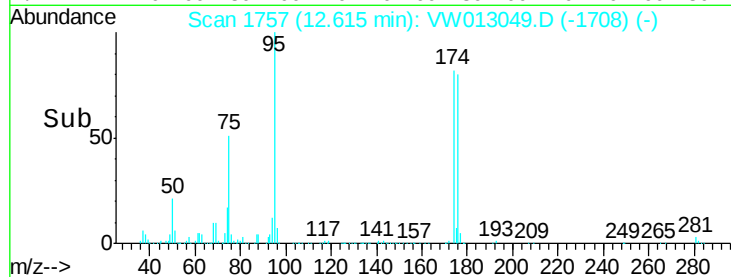
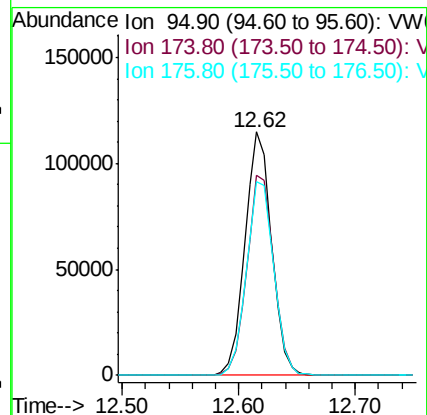
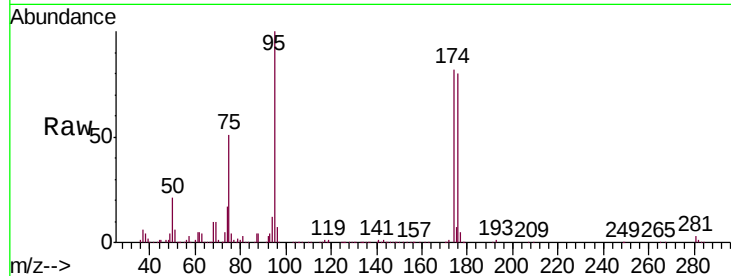
Tgt Ion: 95 Resp: 183468

Ion Ratio Lower Upper

95 100

174 83.1 0.0 170.4

176 81.7 0.0 164.6



#63

Chlorobenzene-d5

Concen: 50.000 ug/l

RT: 11.63 min Scan# 1595

Delta R.T. -0.00 min

Lab File: VW013049.D

Acq: 16 Sep 2019 18:33

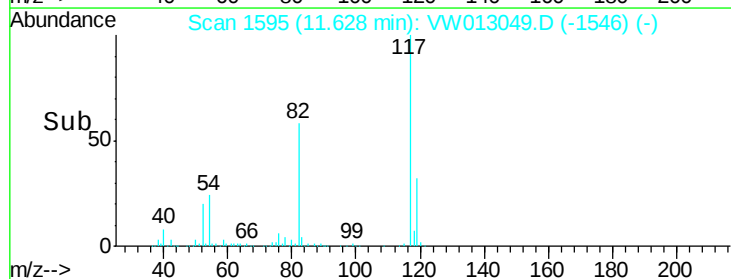
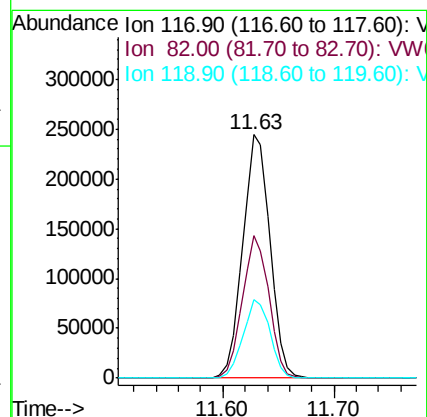
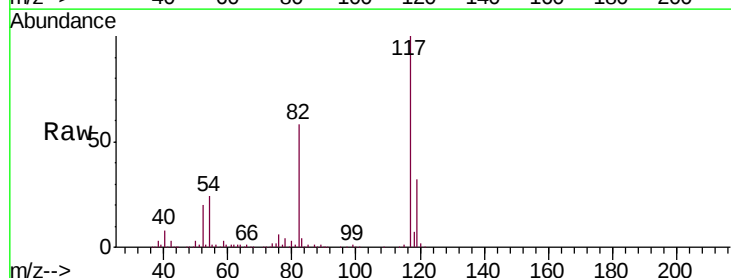
Tgt Ion: 117 Resp: 413603

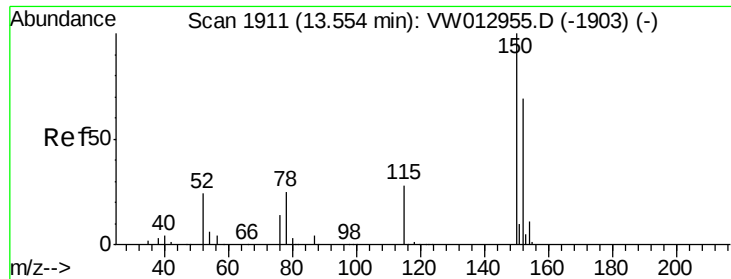
Ion Ratio Lower Upper

117 100

82 58.3 46.3 69.5

119 32.4 26.2 39.4





#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

RT: 13.56 min Scan# 1912

Delta R.T. 0.01 min

Lab File: VW013049.D

Acq: 16 Sep 2019 18:33

Instrument :

MSVOA_W

ClientSampleId :

TP-7-S2(3.5-4)

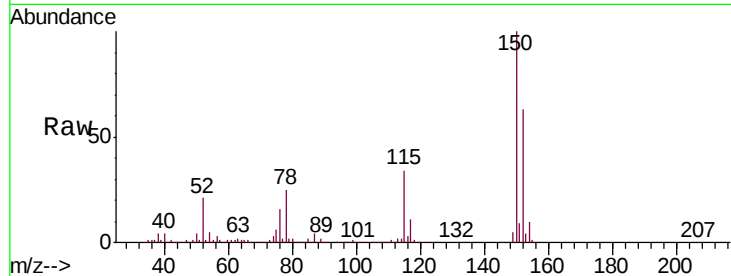
Tgt Ion: 152 Resp: 174603

Ion Ratio Lower Upper

152 100

115 57.3 28.8 86.4

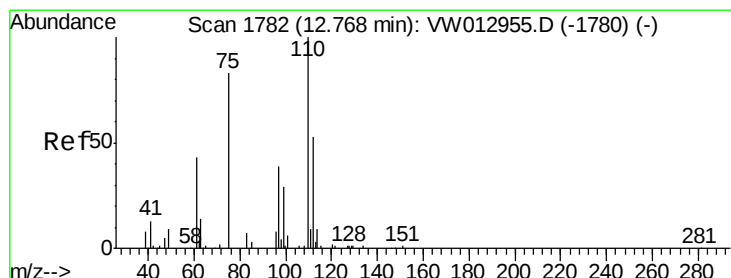
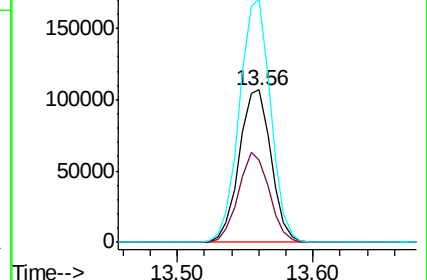
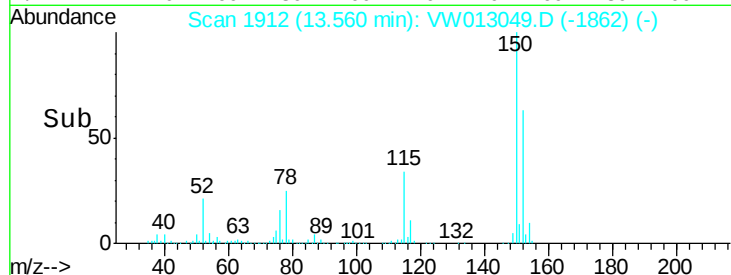
150 156.8 0.0 340.2



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: 60.724 ug/l

RT: 12.62 min Scan# 1757

Delta R.T. -0.15 min

Lab File: VW013049.D

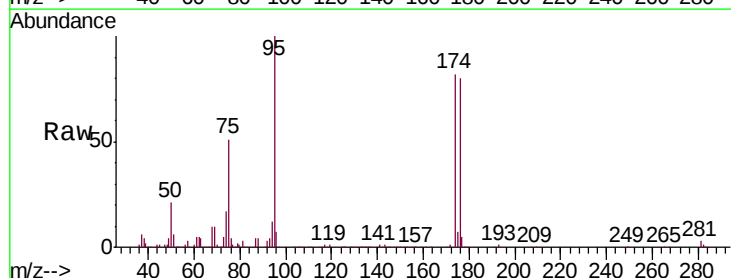
Acq: 16 Sep 2019 18:33

Tgt Ion: 75 Resp: 92871

Ion Ratio Lower Upper

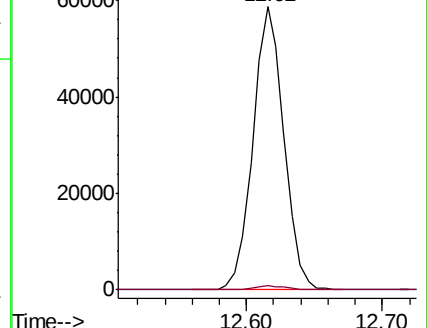
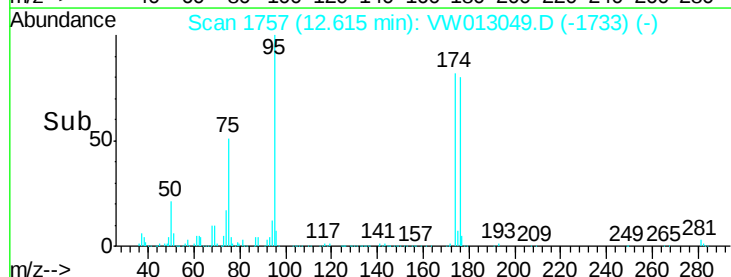
75 100

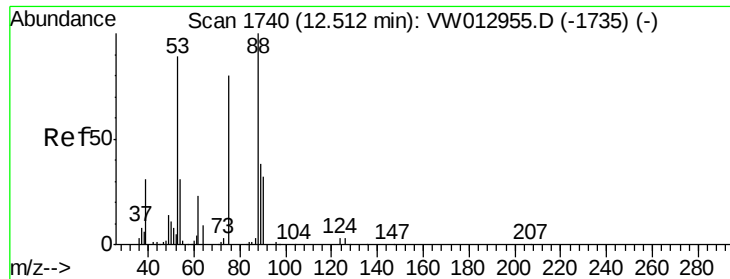
77 1.5 0.0 0.0#



Abundance Ion 74.90 (74.60 to 75.60): VW

Ion 77.00 (76.70 to 77.70): VW

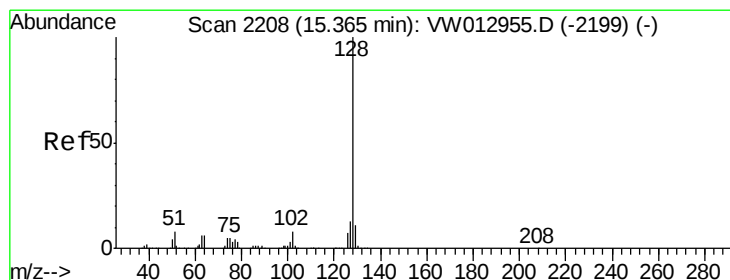
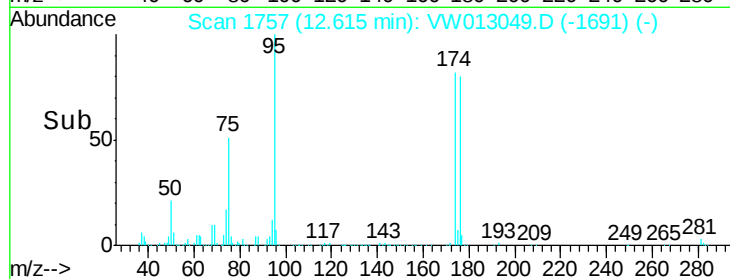
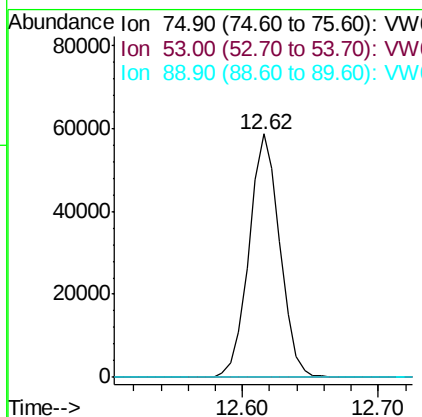
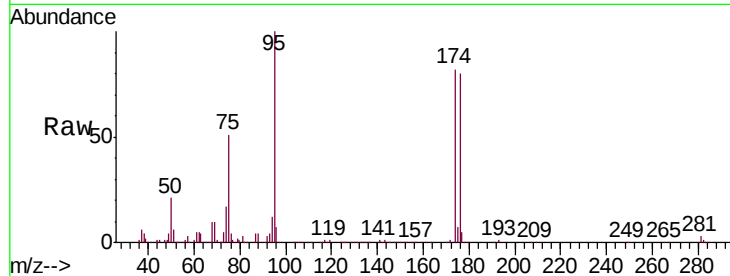




#81
trans-1,4-Dichloro-2-butene
Concen: 137.752 ug/l
RT: 12.62 min Scan# 1757
Delta R.T. 0.10 min
Lab File: VW013049.D
Acq: 16 Sep 2019 18:33

Instrument :
MSVOA_W
ClientSampleId :
TP-7-S2(3.5-4)

Tgt Ion: 75 Resp: 92871
Ion Ratio Lower Upper
75 100
53 0.1 85.6 128.4#
89 0.0 37.2 55.8#



#95
Naphthalene
Concen: 3.750 ug/l
RT: 15.36 min Scan# 2208
Delta R.T. -0.00 min
Lab File: VW013049.D
Acq: 16 Sep 2019 18:33

Tgt Ion: 128 Resp: 20740
Ion Ratio Lower Upper
128 100
127 13.8 11.0 16.6
129 10.6 8.6 12.8

