

Data File : VW012723.D
Acq On : 07 Sep 2019 16:55
Operator : SY/VA
Sample : K4581-19
Misc : 3.68G/5ML/MSVOA_W/SOIL
ALS Vial : 17 Sample Multiplier: 1

Instrument :
MSVOA_W
ClientSampleId :
T12-D4-(3.5)

Quant Time: Sep 08 05:12:17 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	248643	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	8.84	114	389615	50.00	ug/l	0.00
63) Chlorobenzene-d5	11.63	117	304026	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.56	152	111512	50.00	ug/l	0.00

System Monitoring Compounds

33) 1,2-Dichloroethane-d4	8.31	65	147249	53.00	ug/l	0.00
Spiked Amount	50.000		Recovery	=	106.00%	
35) Dibromofluoromethane	7.88	113	116205	50.17	ug/l	0.00
Spiked Amount	50.000		Recovery	=	100.34%	
50) Toluene-d8	10.32	98	461835	50.89	ug/l	0.00
Spiked Amount	50.000		Recovery	=	101.78%	
62) 4-Bromofluorobenzene	12.62	95	133866	40.63	ug/l	0.00
Spiked Amount	50.000		Recovery	=	81.26%	

Target Compounds

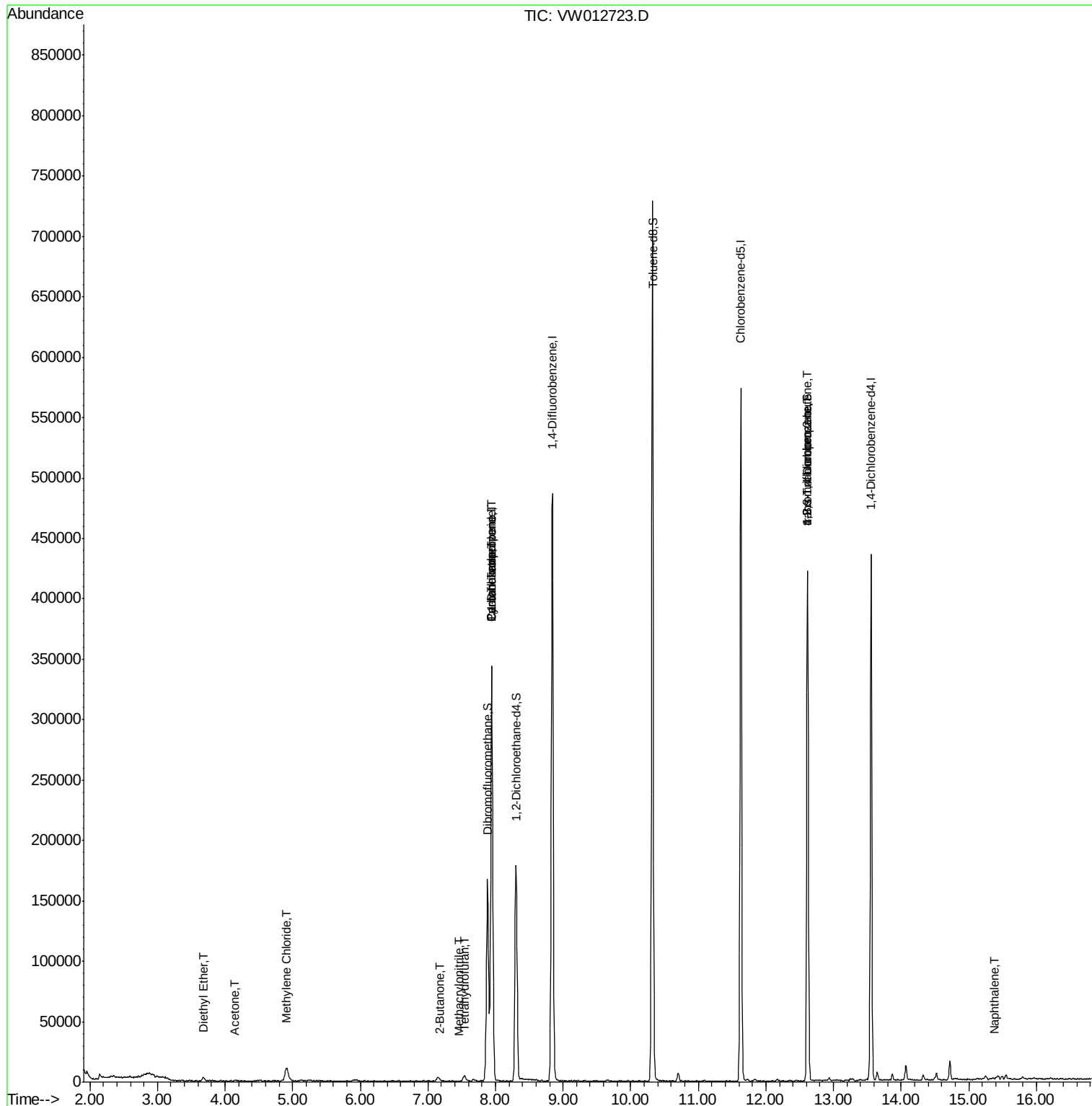
						Qvalue
8) Diethyl Ether	3.68	74	1297	1.113	ug/l	61
16) Acetone	4.15	43	1264	1.669	ug/l #	82
20) Methylene Chloride	4.92	84	8412	3.550	ug/l	93
25) 2-Butanone	7.18	43	50	19.722	ug/l #	53
29) Tetrahydrofuran	7.54	42	4014	6.563	ug/l	94
31) Cyclohexane	7.95	56	5965	1.461	ug/l #	1
36) 1,1-Dichloropropene	7.95	75	20259	5.852	ug/l #	52
38) Carbon Tetrachloride	7.95	117	25109	7.358	ug/l #	16
41) Methacrylonitrile	7.47	41	78	3.887	ug/l #	41
76) 1,2,3-Trichloropropane	12.62	75	73500	64.459	ug/l #	100
81) trans-1,4-Dichloro-2-buten	12.62	75	73500	136.335	ug/l #	6
95) Naphthalene	15.38	128	831	4.601	ug/l #	86

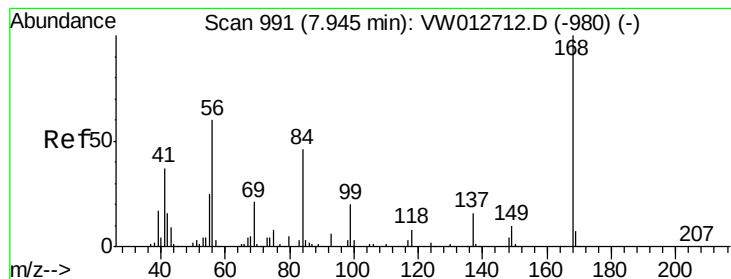
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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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: VW012723.D

Acq: 07 Sep 2019 16:55

Instrument :

MSVOA_W

ClientSampleId :

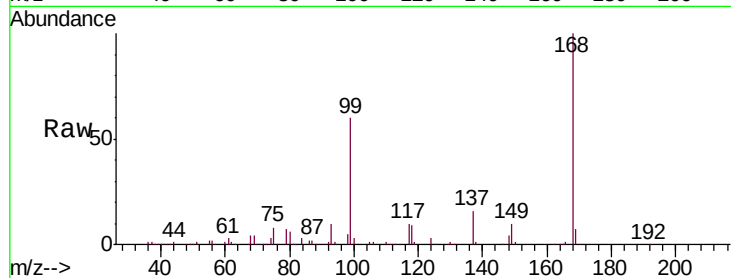
T12-D4-(3.5)

Tgt Ion:168 Resp: 248643

Ion Ratio Lower Upper

168 100

99 59.9 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

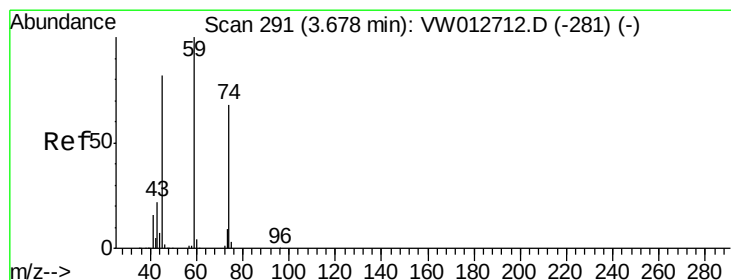
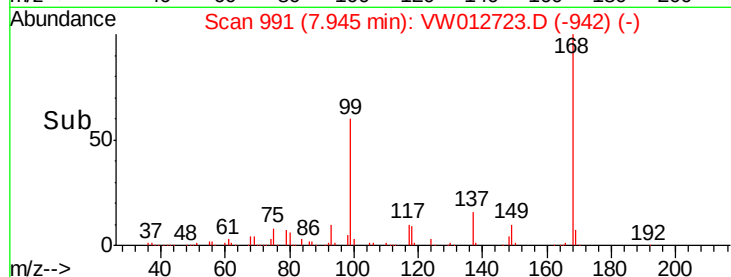
100000

50000

0

Time-->

7.90 8.00 8.10



#8

Diethyl Ether

Concen: 1.113 ug/l

RT: 3.68 min Scan# 292

Delta R.T. 0.01 min

Lab File: VW012723.D

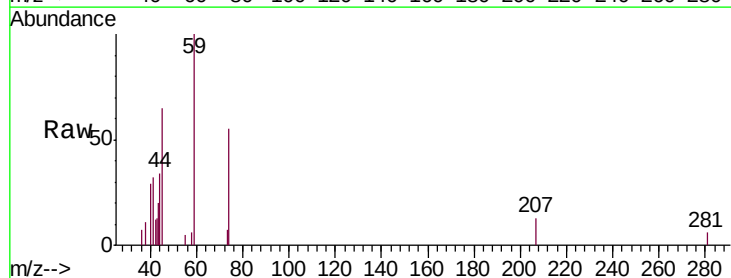
Acq: 07 Sep 2019 16:55

Tgt Ion: 74 Resp: 1297

Ion Ratio Lower Upper

74 100

45 160.2 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

1000

800

600

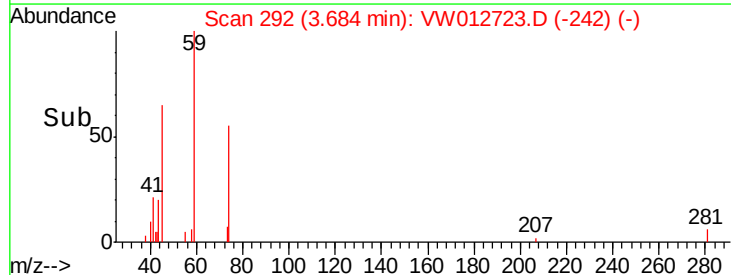
400

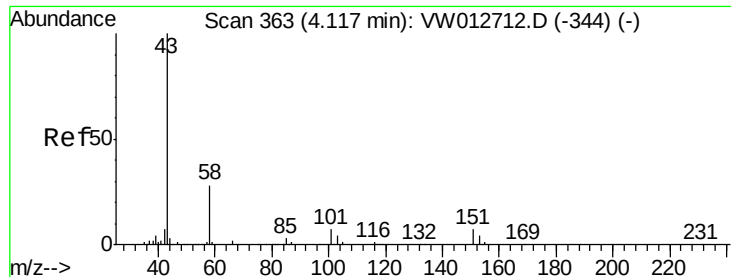
200

0

Time-->

3.60 3.65 3.70 3.75





#16

Acetone

Concen: 1.669 ug/l

RT: 4.15 min Scan# 368

Delta R.T. 0.03 min

Lab File: VW012723.D

Acq: 07 Sep 2019 16:55

Instrument :

MSVOA_W

ClientSampleId :

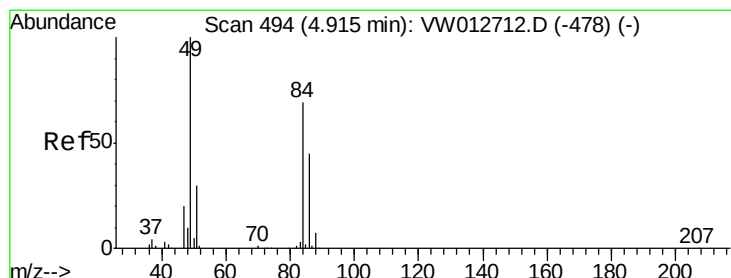
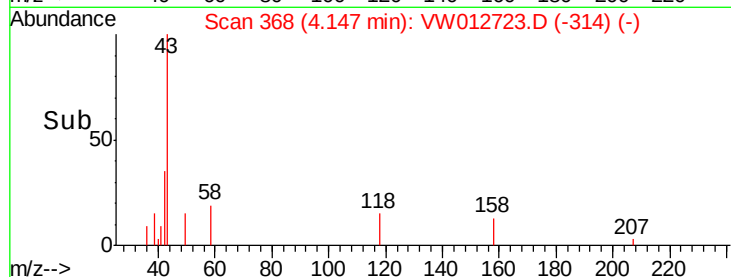
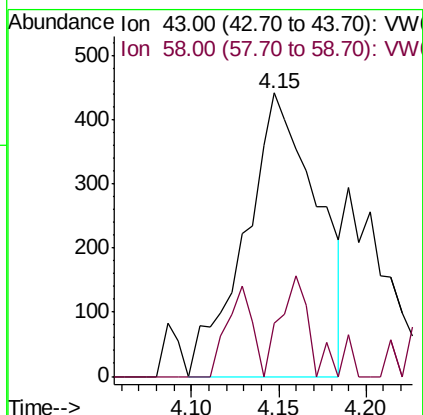
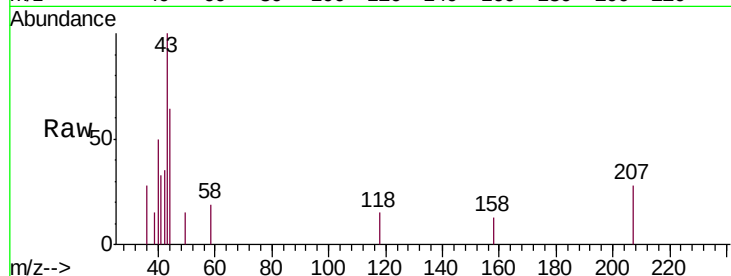
T12-D4-(3.5)

Tgt Ion: 43 Resp: 1264

Ion Ratio Lower Upper

43 100

58 18.8 22.6 33.8#



#20

Methylene Chloride

Concen: 3.550 ug/l

RT: 4.92 min Scan# 494

Delta R.T. 0.00 min

Lab File: VW012723.D

Acq: 07 Sep 2019 16:55

Tgt Ion: 84 Resp: 8412

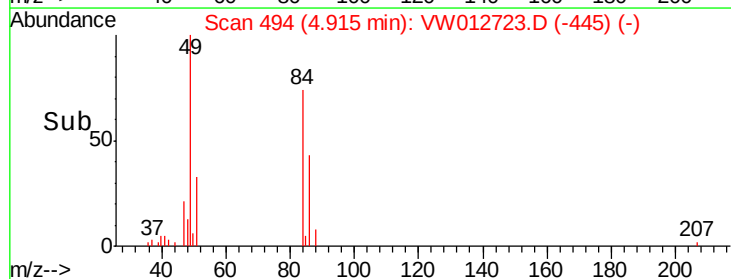
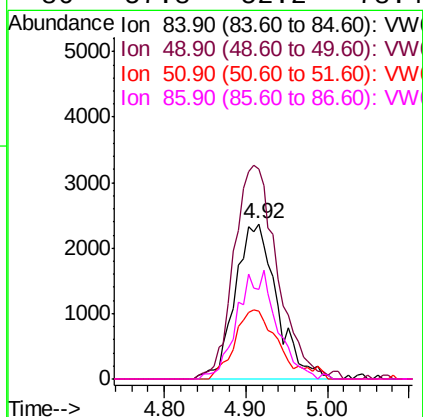
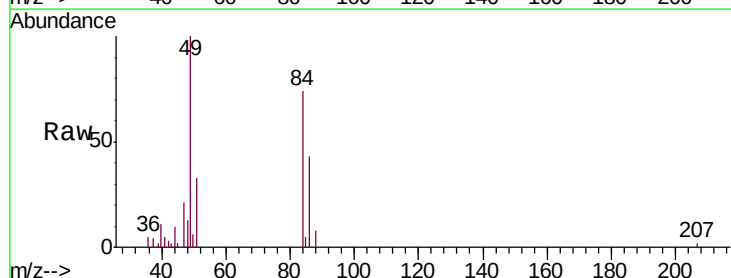
Ion Ratio Lower Upper

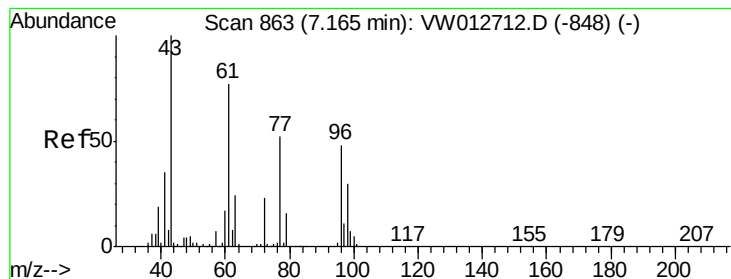
84 100

49 135.5 115.4 173.0

51 44.1 34.9 52.3

86 57.8 52.2 78.4





#25

2-Butanone

Concen: 19.722 ug/l

RT: 7.18 min Scan# 865

Delta R.T. 0.01 min

Lab File: VW012723.D

Acq: 07 Sep 2019 16:55

Instrument :

MSVOA_W

ClientSampleId :

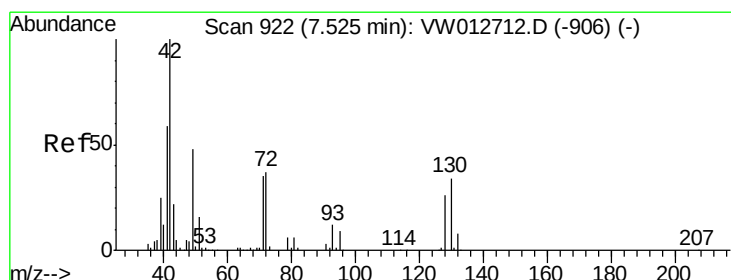
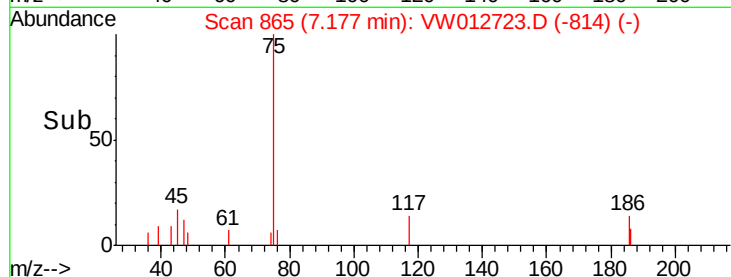
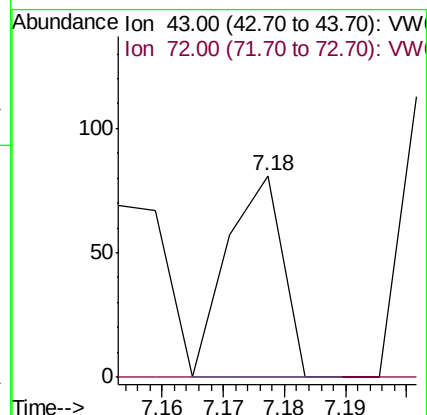
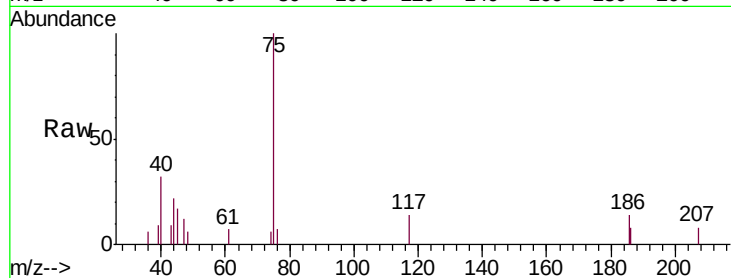
T12-D4-(3.5)

Tgt Ion: 43 Resp: 50

Ion Ratio Lower Upper

43 100

72 0.0 18.0 27.0#



#29

Tetrahydrofuran

Concen: 6.563 ug/l

RT: 7.54 min Scan# 924

Delta R.T. 0.01 min

Lab File: VW012723.D

Acq: 07 Sep 2019 16:55

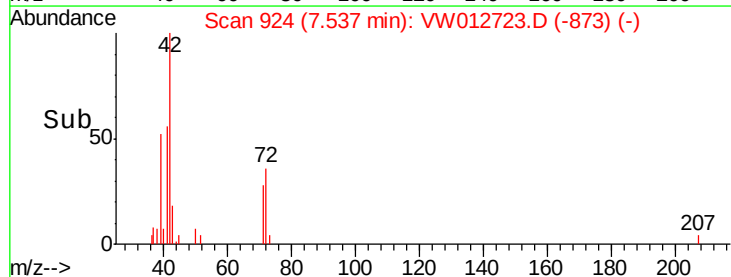
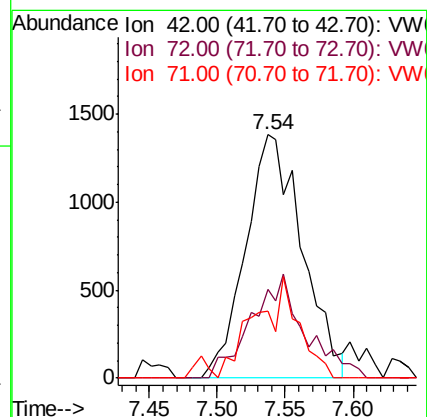
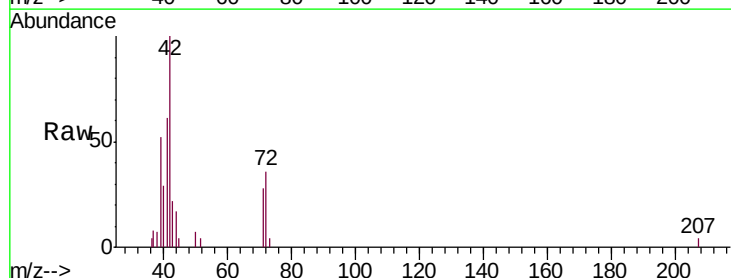
Tgt Ion: 42 Resp: 4014

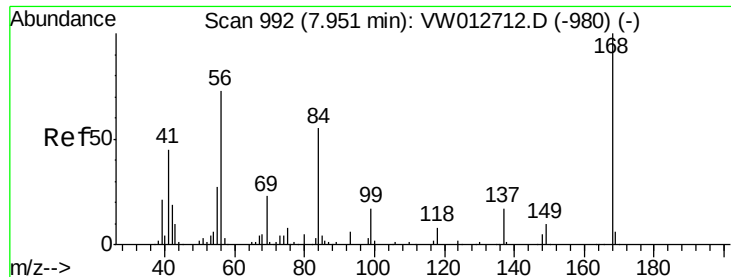
Ion Ratio Lower Upper

42 100

72 40.4 28.4 42.6

71 31.8 27.1 40.7

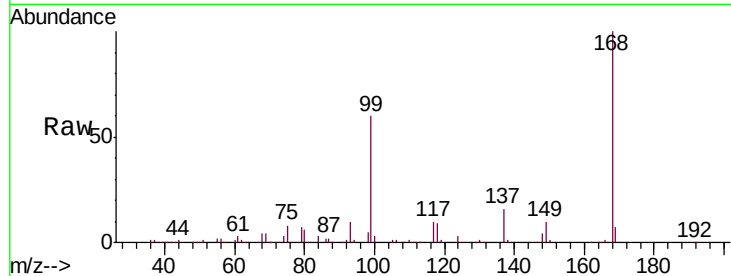




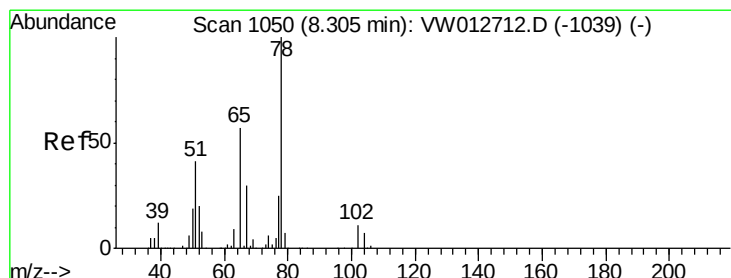
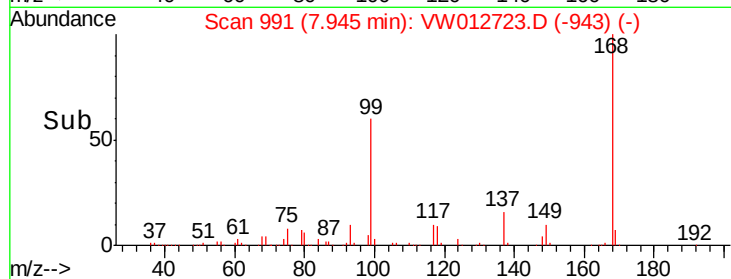
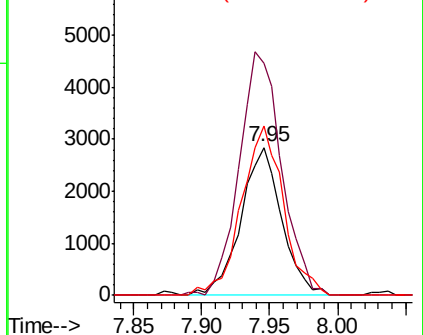
#31
Cyclohexane
Concen: 1.461 ug/l
RT: 7.95 min Scan# 991
Delta R.T. -0.01 min
Lab File: VW012723.D
Acq: 07 Sep 2019 16:55

Instrument :
MSVOA_W
ClientSampled :
T12-D4-(3.5)

Tgt Ion: 56 Resp: 5965
Ion Ratio Lower Upper
56 100
69 157.6 25.7 38.5#
84 115.0 60.4 90.6#

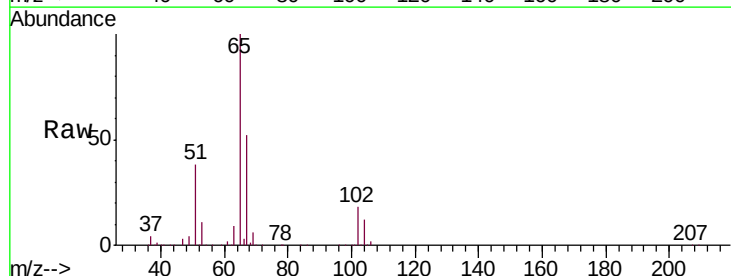


Abundance Ion 56.00 (55.70 to 56.70): VW
Ion 69.00 (68.70 to 69.70): VW
Ion 84.00 (83.70 to 84.70): VW

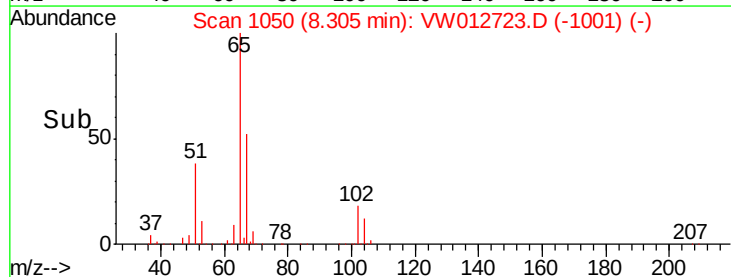
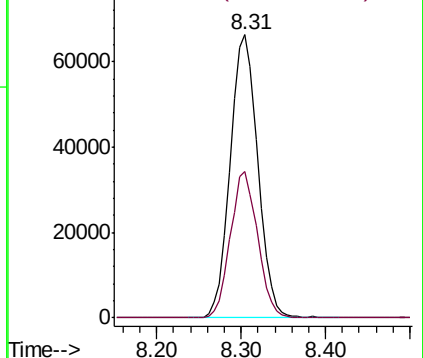


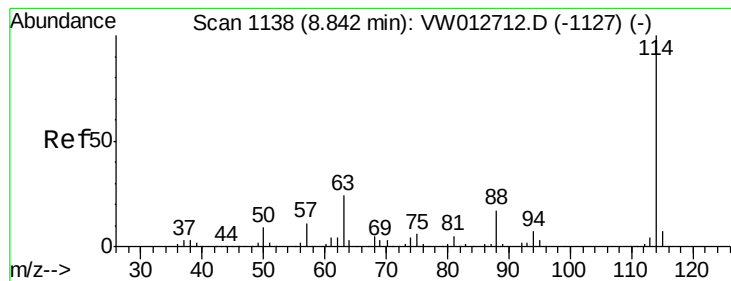
#33
1,2-Dichloroethane-d4
Concen: 53.002 ug/l
RT: 8.31 min Scan# 1050
Delta R.T. 0.00 min
Lab File: VW012723.D
Acq: 07 Sep 2019 16:55

Tgt Ion: 65 Resp: 147249
Ion Ratio Lower Upper
65 100
67 51.0 0.0 101.8



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: VW012723.D

Acq: 07 Sep 2019 16:55

Instrument :

MSVOA_W

ClientSampleId :

T12-D4-(3.5)

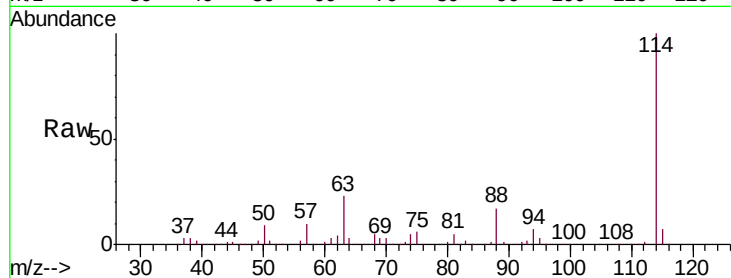
Tgt Ion:114 Resp: 389615

Ion Ratio Lower Upper

114 100

63 23.3 0.0 47.2

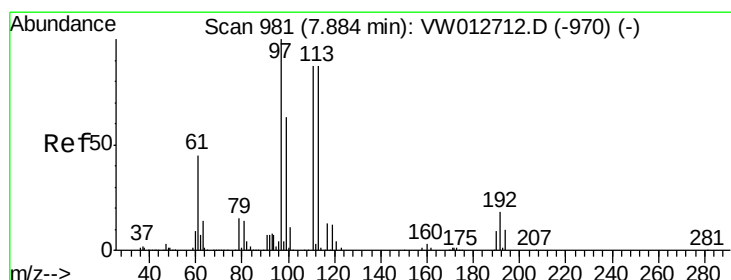
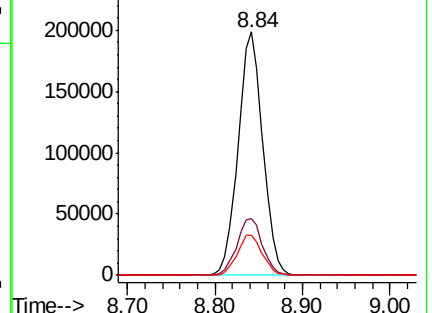
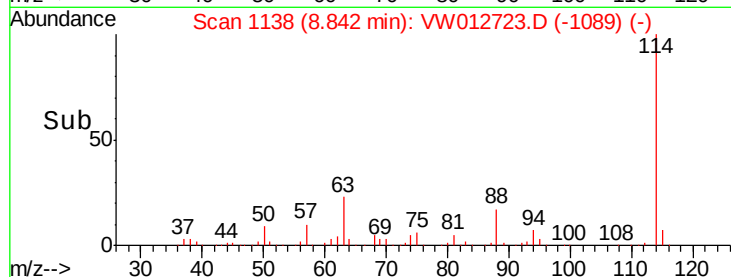
88 16.6 0.0 34.0



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: 50.167 ug/l

RT: 7.88 min Scan# 981

Delta R.T. 0.00 min

Lab File: VW012723.D

Acq: 07 Sep 2019 16:55

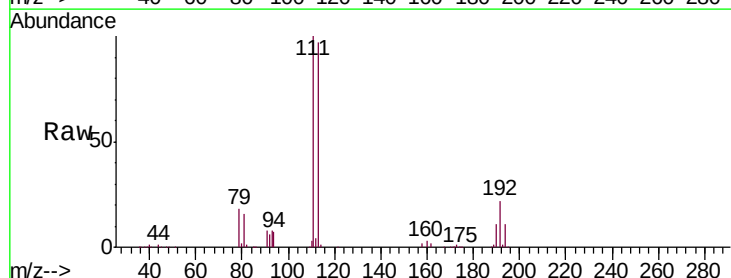
Tgt Ion:113 Resp: 116205

Ion Ratio Lower Upper

113 100

111 102.7 80.2 120.4

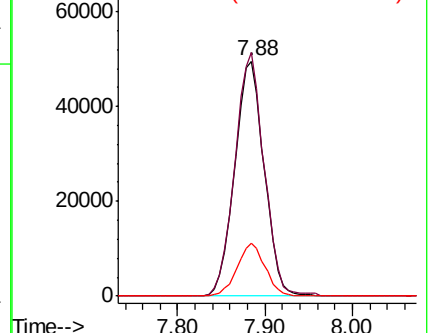
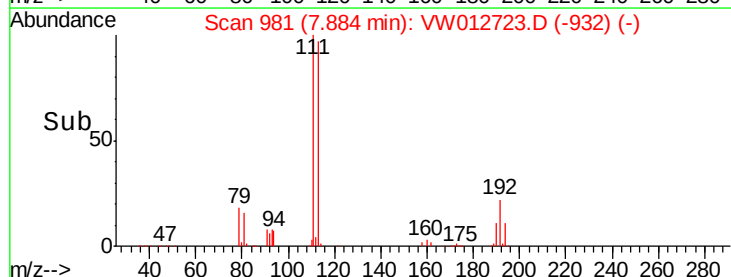
192 21.4 17.3 25.9

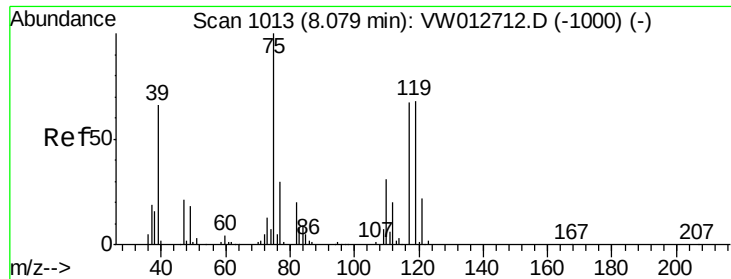


Abundance Ion 112.80 (112.50 to 113.50): V

Ion 110.80 (110.50 to 111.50): V

Ion 191.70 (191.40 to 192.40): V

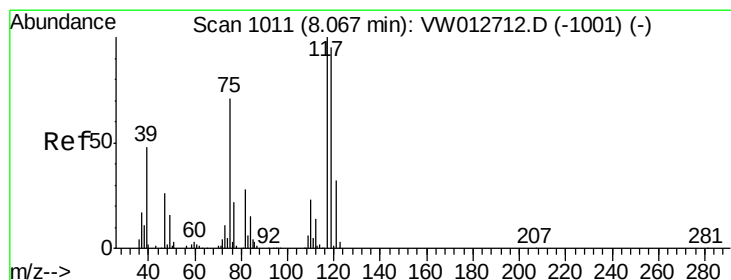
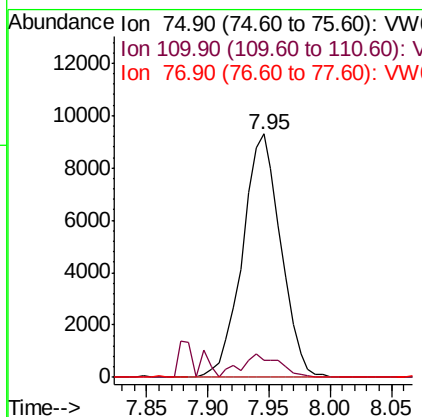
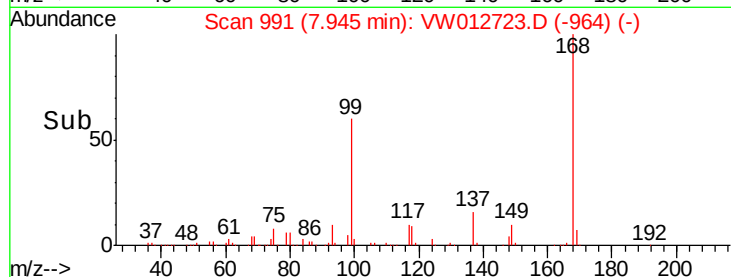
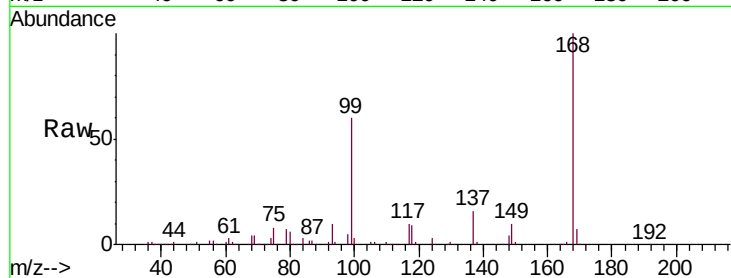




#36
 1,1-Dichloropropene
 Concen: 5.852 ug/l
 RT: 7.95 min Scan# 991
 Delta R.T. -0.13 min
 Lab File: VW012723.D
 Acq: 07 Sep 2019 16:55

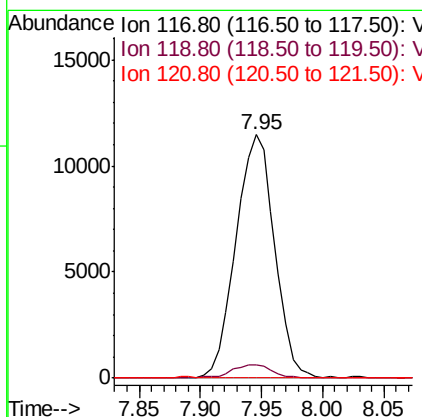
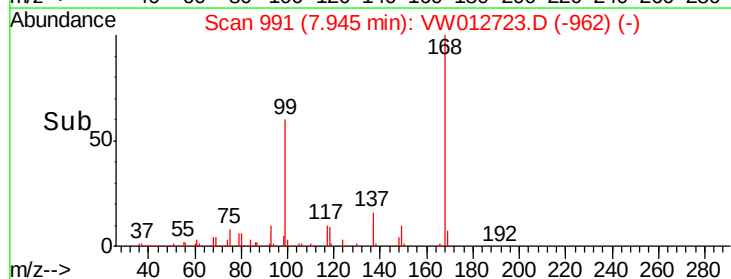
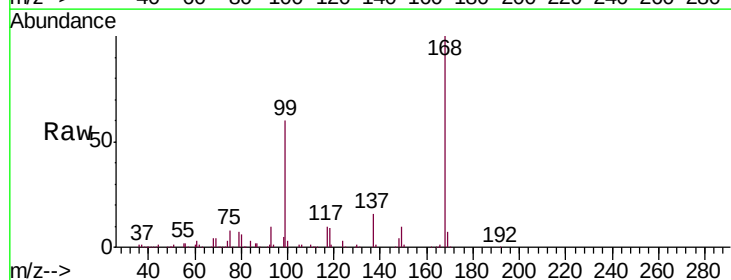
Instrument :
 MSVOA_W
 ClientSampleId :
 T12-D4-(3.5)

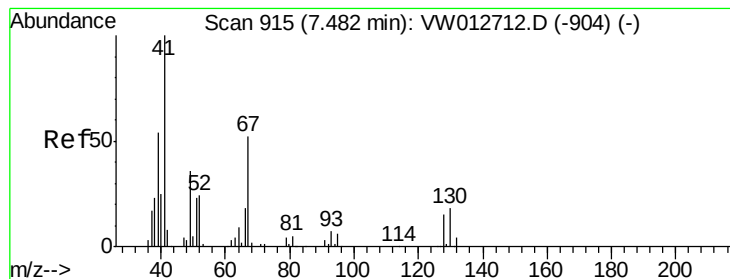
Tgt Ion	Ratio	Lower	Upper
75	100		
110	9.5	15.9	47.7#
77	0.0	25.0	37.4#



#38
 Carbon Tetrachloride
 Concen: 7.358 ug/l
 RT: 7.95 min Scan# 991
 Delta R.T. -0.12 min
 Lab File: VW012723.D
 Acq: 07 Sep 2019 16:55

Tgt Ion	Ratio	Lower	Upper
117	100		
119	5.4	76.2	114.2#
121	0.0	25.4	38.2#





#41

Methacrylonitrile

Concen: 3.887 ug/l

RT: 7.47 min Scan# 913

Delta R.T. -0.01 min

Lab File: VW012723.D

Acq: 07 Sep 2019 16:55

Instrument :

MSVOA_W

ClientSampled :

T12-D4-(3.5)

Tgt Ion: 41 Resp: 78

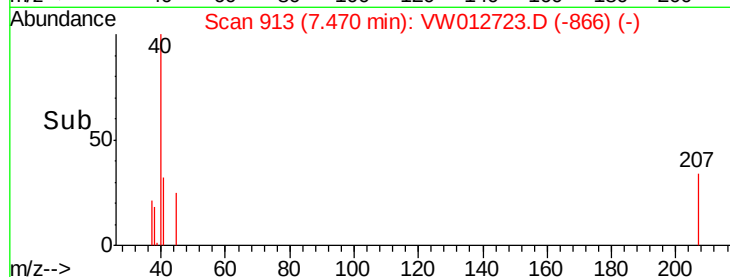
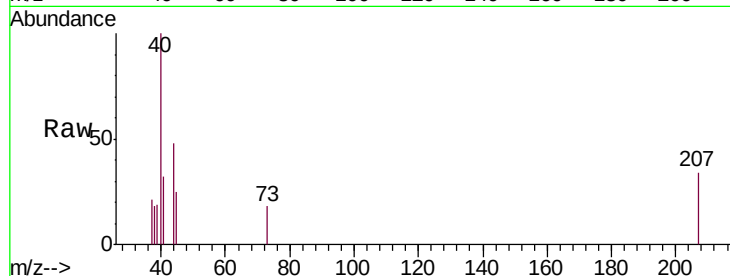
Ion Ratio Lower Upper

41 100

39 0.0 47.5 71.3#

67 25.6 45.1 67.7#

52 0.0 20.2 30.2#

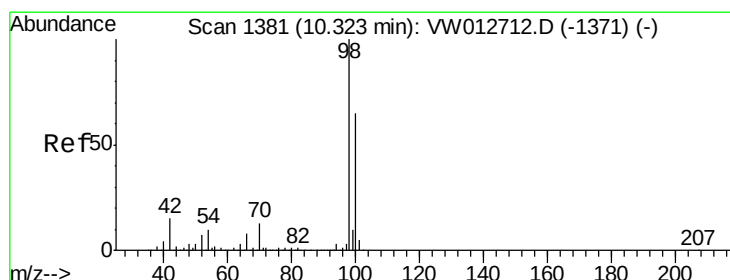
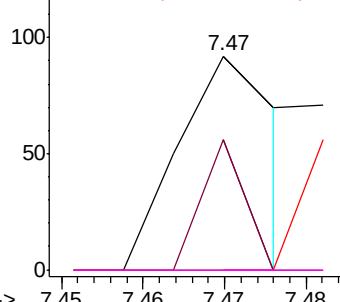


Abundance Ion 41.00 (40.70 to 41.70): VW

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



#50

Toluene-d8

Concen: 50.891 ug/l

RT: 10.32 min Scan# 1381

Delta R.T. 0.00 min

Lab File: VW012723.D

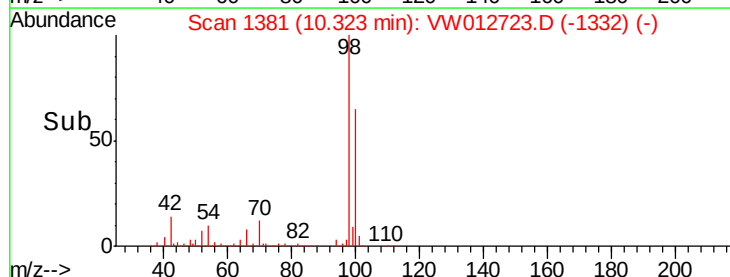
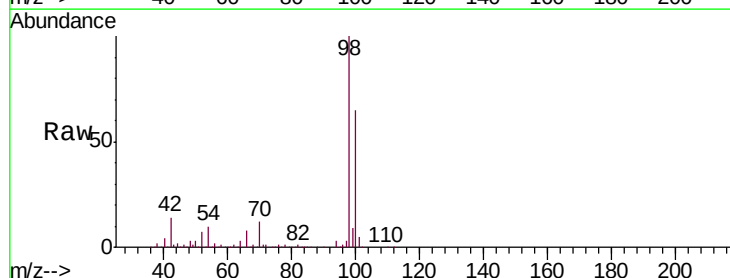
Acq: 07 Sep 2019 16:55

Tgt Ion: 98 Resp: 461835

Ion Ratio Lower Upper

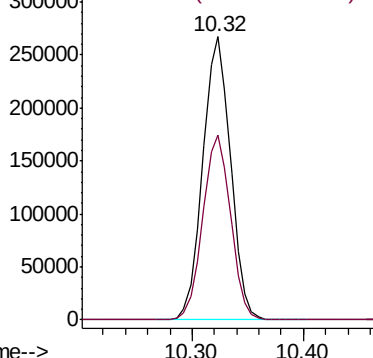
98 100

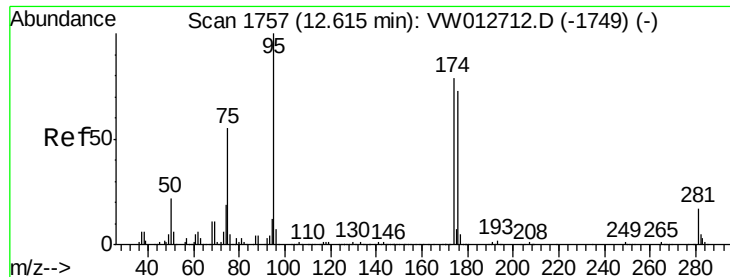
100 65.4 52.2 78.4



Abundance Ion 98.00 (97.70 to 98.70): VW

Ion 100.00 (99.70 to 100.70): VW





#62

4-Bromofluorobenzene

Concen: 40.633 ug/l

RT: 12.62 min Scan# 1757

Delta R.T. 0.00 min

Lab File: VW012723.D

Acq: 07 Sep 2019 16:55

Instrument :

MSVOA_W

ClientSampleId :

T12-D4-(3.5)

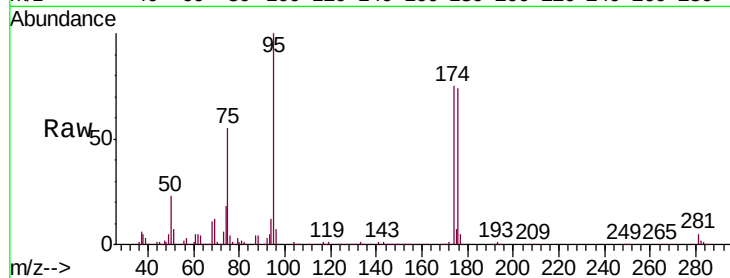
Tgt Ion: 95 Resp: 133866

Ion Ratio Lower Upper

95 100

174 80.3 0.0 161.0

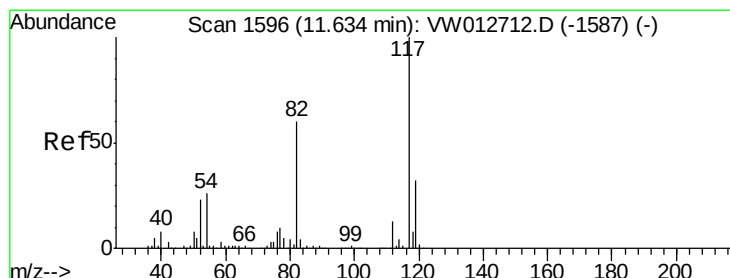
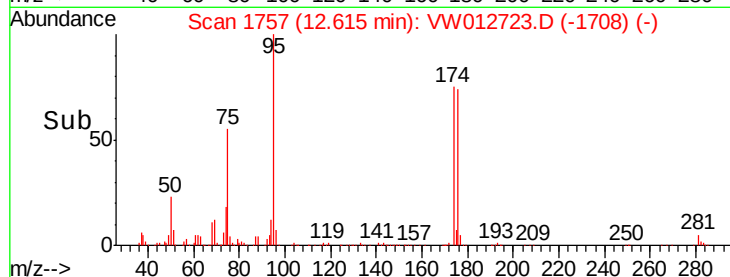
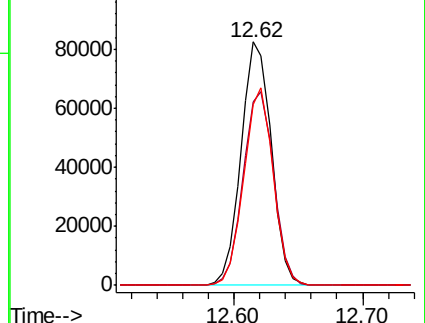
176 78.6 0.0 156.4



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: VW012723.D

Acq: 07 Sep 2019 16:55

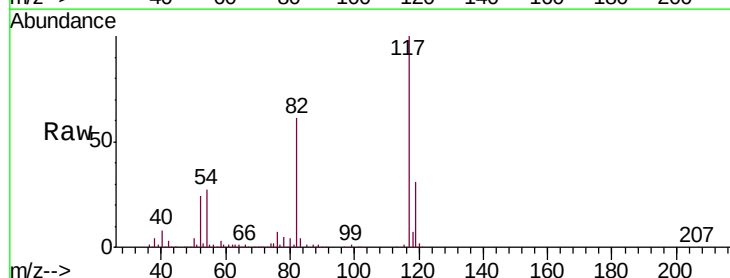
Tgt Ion: 117 Resp: 304026

Ion Ratio Lower Upper

117 100

82 61.1 48.2 72.4

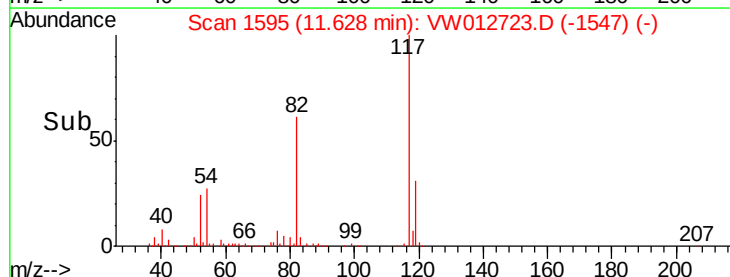
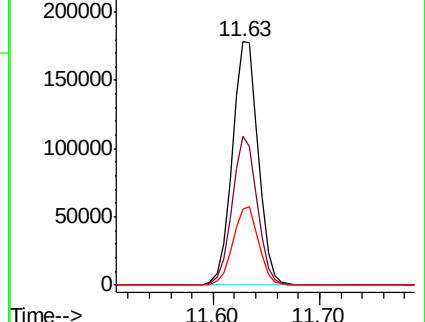
119 31.1 25.8 38.6

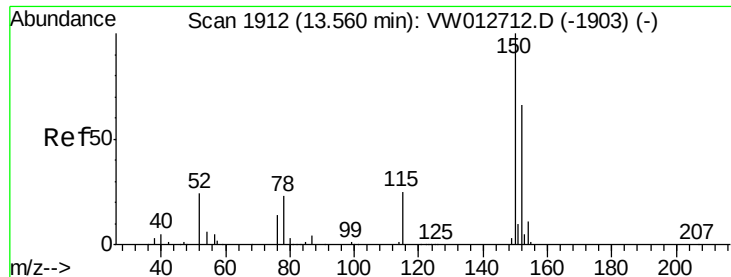


Abundance Ion 116.90 (116.60 to 117.60): VW

Ion 82.00 (81.70 to 82.70): VW

Ion 118.90 (118.60 to 119.60): VW



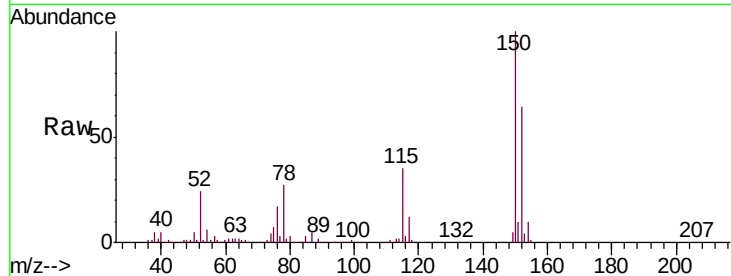


#72

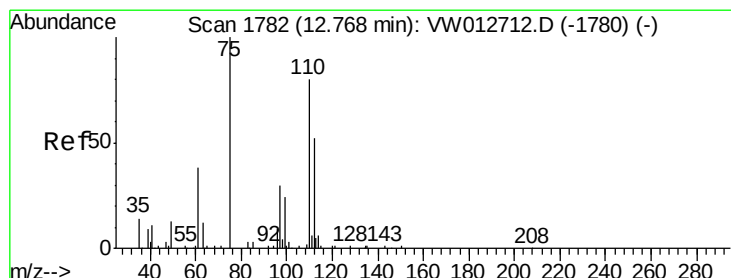
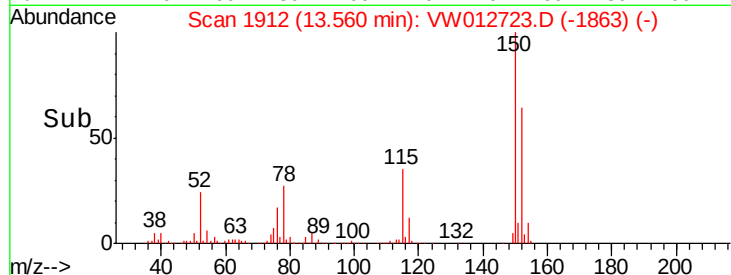
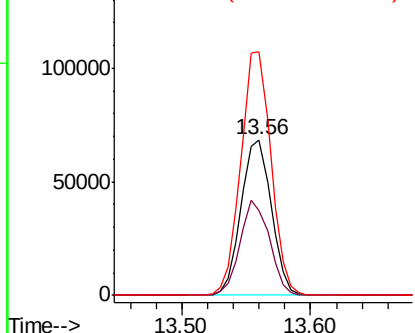
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 13.56 min Scan# 1912
Delta R.T. 0.00 min
Lab File: VW012723.D
Acq: 07 Sep 2019 16:55

Instrument :
MSVOA_W
ClientSampleId :
T12-D4-(3.5)

Tgt Ion:152 Resp: 111512
Ion Ratio Lower Upper
152 100
115 59.5 30.0 90.1
150 156.6 0.0 349.0



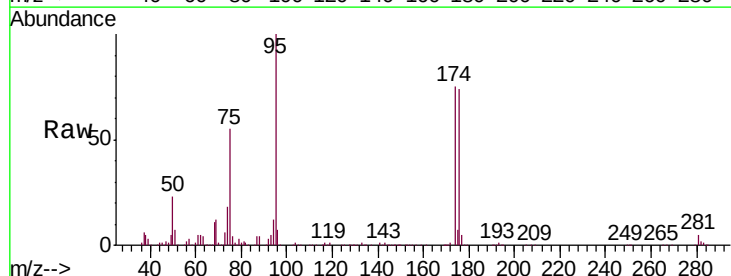
Abundance Ion 151.90 (151.60 to 152.60): V
Ion 114.90 (114.60 to 115.60): V
Ion 149.90 (149.60 to 150.60): V



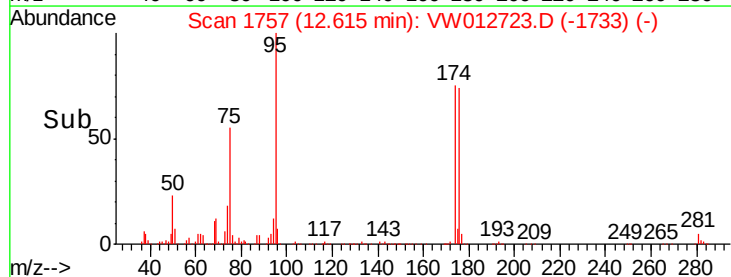
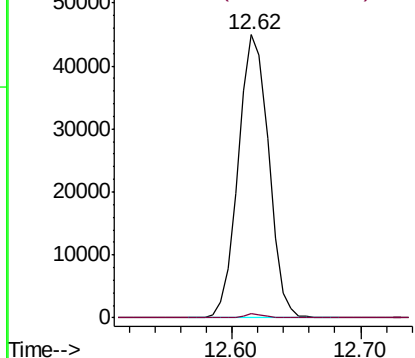
#76

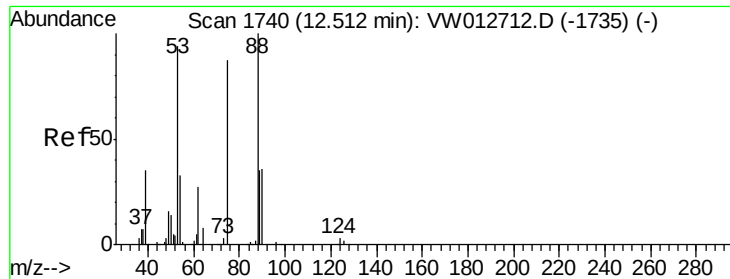
1,2,3-Trichloropropane
Concen: 64.459 ug/l
RT: 12.62 min Scan# 1757
Delta R.T. -0.15 min
Lab File: VW012723.D
Acq: 07 Sep 2019 16:55

Tgt Ion: 75 Resp: 73500
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: 136.335 ug/l

RT: 12.62 min Scan# 1757

Delta R.T. 0.10 min

Lab File: VW012723.D

Acq: 07 Sep 2019 16:55

Instrument :

MSVOA_W

ClientSampleId :

T12-D4-(3.5)

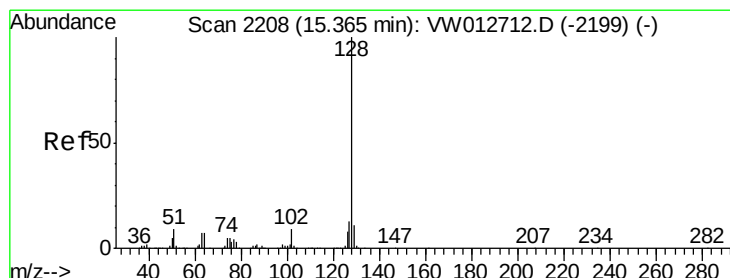
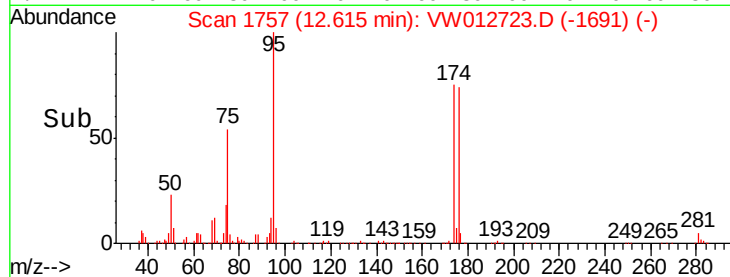
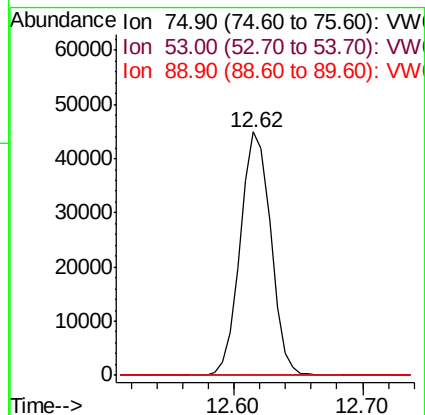
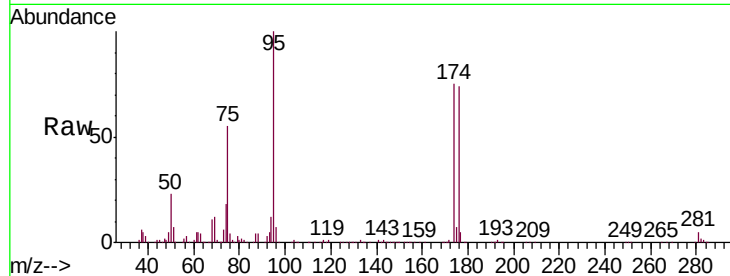
Tgt Ion: 75 Resp: 73500

Ion Ratio Lower Upper

75 100

53 0.1 87.6 131.4#

89 0.0 35.5 53.3#



#95

Naphthalene

Concen: 4.601 ug/l

RT: 15.38 min Scan# 2210

Delta R.T. 0.01 min

Lab File: VW012723.D

Acq: 07 Sep 2019 16:55

Tgt Ion: 128 Resp: 831

Ion Ratio Lower Upper

128 100

127 5.8 10.7 16.1#

129 8.2 8.7 13.1#

