

Data File : VW012407.D
Acq On : 31 Aug 2019 18:09
Operator : SY/VA
Sample : K4517-07
Misc : 5.74G/5ML/MSVOA_W/SOIL
ALS Vial : 22 Sample Multiplier: 1

Instrument :
MSVOA_W
ClientSampleId :
T4-S-D1-(2.5)

Quant Time: Sep 01 03:32:45 2019
Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_W\METHOD\82W082319S.M
Quant Title : SW846 8260
QLast Update : Mon Aug 26 07:18:31 2019
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	7.95	168	29862	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	8.84	114	45679	50.00	ug/l	0.00
63) Chlorobenzene-d5	11.63	117	38591	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.56	152	11459	50.00	ug/l	0.00

System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	8.31	65	20856	58.75	ug/l	0.00
Spiked Amount	50.000		Recovery	=	117.50%	
35) Dibromofluoromethane	7.88	113	15181	55.68	ug/l	0.00
Spiked Amount	50.000		Recovery	=	111.36%	
50) Toluene-d8	10.32	98	56227	50.86	ug/l	0.00
Spiked Amount	50.000		Recovery	=	101.72%	
62) 4-Bromofluorobenzene	12.62	95	15551	39.90	ug/l	0.00
Spiked Amount	50.000		Recovery	=	79.80%	

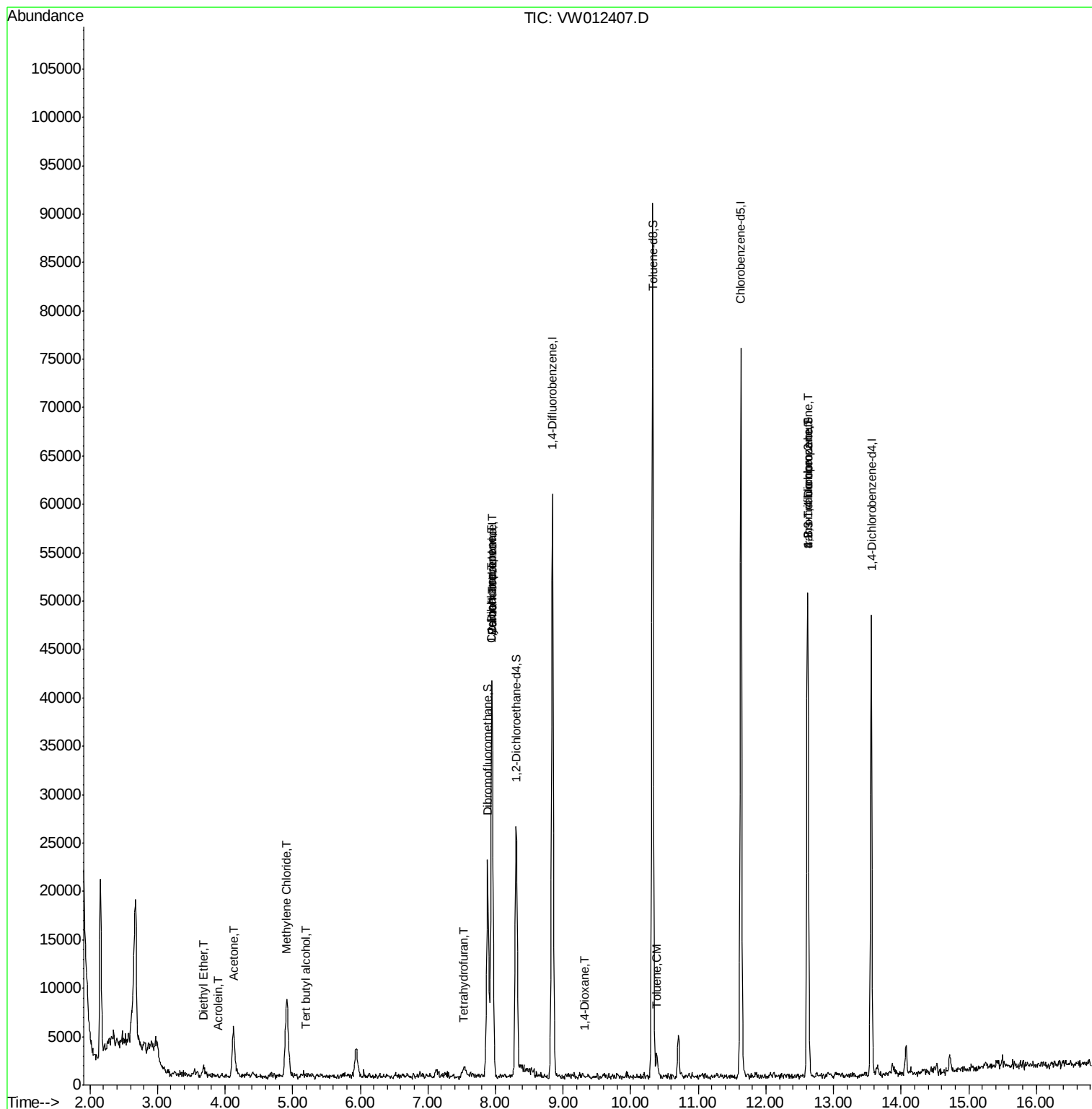
Target Compounds				Qvalue		
8) Diethyl Ether	3.68	74	408	2.455	ug/l	48
11) Tert butyl alcohol	5.20	59	94	4.400	ug/l #	60
13) Acrolein	3.90	56	76	3.779	ug/l #	15
16) Acetone	4.12	43	9574	105.508	ug/l	98
20) Methylene Chloride	4.91	84	5011	14.608	ug/l	93
29) Tetrahydrofuran	7.53	42	1101	14.883	ug/l #	87
31) Cyclohexane	7.94	56	811	1.268	ug/l #	1
36) 1,1-Dichloropropene	7.94	75	2591	5.489	ug/l #	48
38) Carbon Tetrachloride	7.95	117	3029	7.414	ug/l #	17
49) 1,4-Dioxane	9.32	88	19	8.041	ug/l #	14
52) Toluene	10.39	92	825	1.065	ug/l	99
76) 1,2,3-Trichloropropane	12.62	75	8610	77.149	ug/l #	100
81) trans-1,4-Dichloro-2-buten	12.62	75	8610	169.152	ug/l #	6

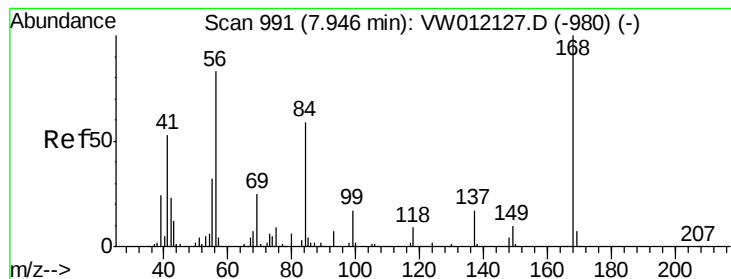
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 7.95 min Scan# 992

Delta R.T. 0.01 min

Lab File: VW012407.D

Acq: 31 Aug 2019 18:09

Instrument :

MSVOA_W

ClientSampleId :

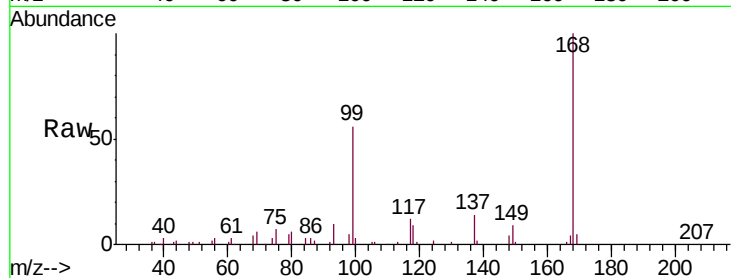
T4-S-D1-(2.5)

Tgt Ion:168 Resp: 29862

Ion Ratio Lower Upper

168 100

99 55.5 49.2 73.8



Abundance Ion 167.90 (167.60 to 168.60): VW

Ion 98.90 (98.60 to 99.60): VW

7.95

15000

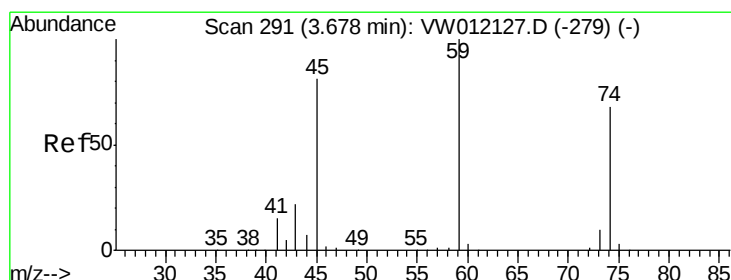
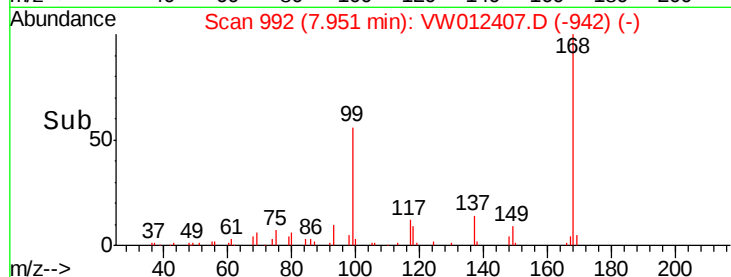
10000

5000

0

Time-->

7.85 7.90 7.95 8.00 8.05



#8

Diethyl Ether

Concen: 2.455 ug/l

RT: 3.68 min Scan# 292

Delta R.T. 0.01 min

Lab File: VW012407.D

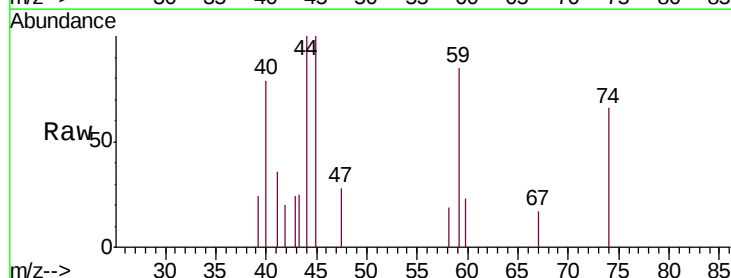
Acq: 31 Aug 2019 18:09

Tgt Ion: 74 Resp: 408

Ion Ratio Lower Upper

74 100

45 175.5 59.2 177.6



Abundance Ion 74.00 (73.70 to 74.70): VW

Ion 45.00 (44.70 to 45.70): VW

3.68

300

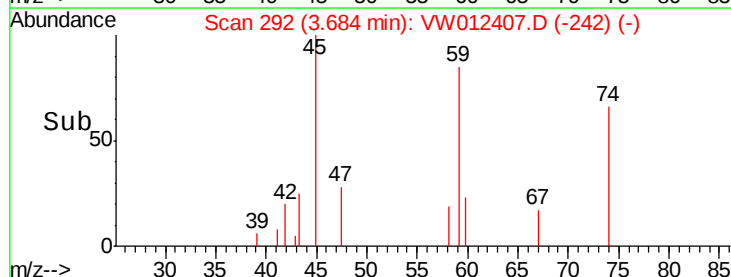
200

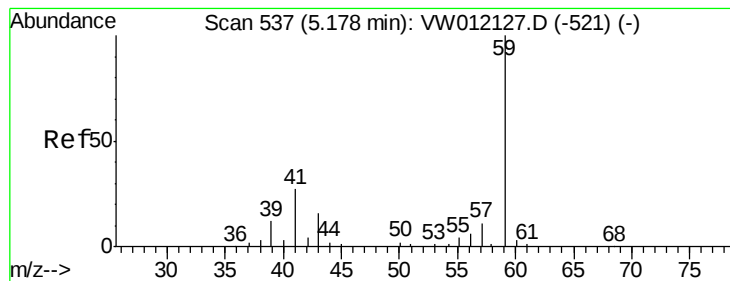
100

0

Time-->

3.60 3.65 3.70 3.75





#11

Tert butyl alcohol

Concen: 4.400 ug/l

RT: 5.20 min Scan# 540

Delta R.T. 0.02 min

Lab File: VW012407.D

Acq: 31 Aug 2019 18:09

Instrument :

MSVOA_W

ClientSampled :

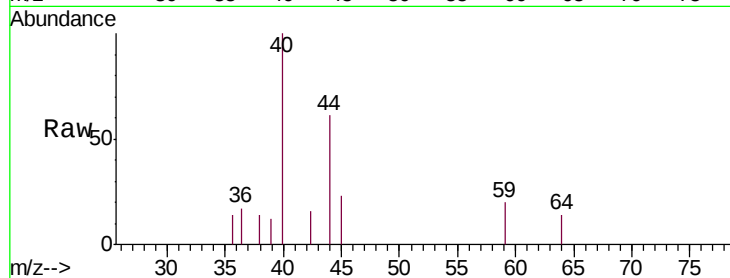
T4-S-D1-(2.5)

Tgt Ion: 59 Resp: 94

Ion Ratio Lower Upper

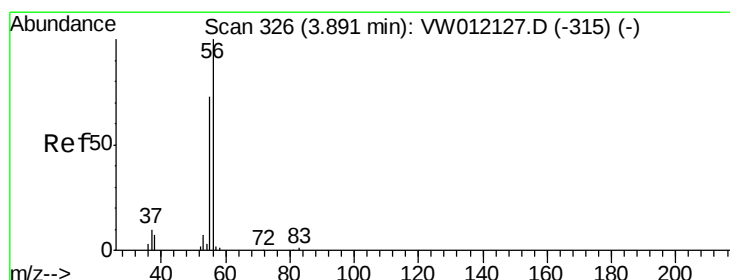
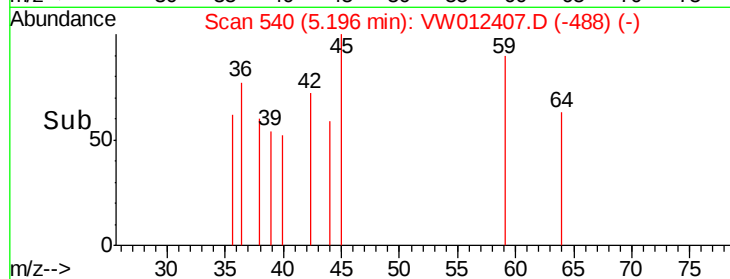
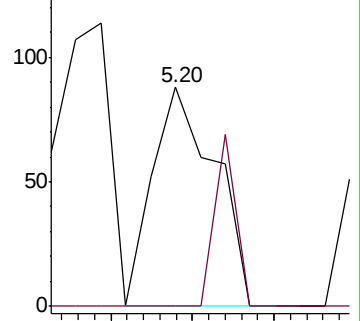
59 100

57 26.6 9.0 13.4#



Abundance Ion 59.00 (58.70 to 59.70): VW

Ion 57.00 (56.70 to 57.70): VW



#13

Acrolein

Concen: 3.779 ug/l

RT: 3.90 min Scan# 327

Delta R.T. 0.01 min

Lab File: VW012407.D

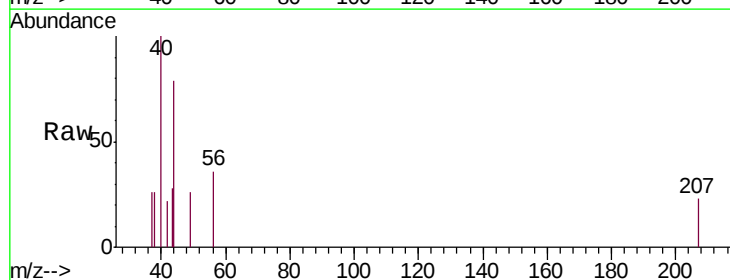
Acq: 31 Aug 2019 18:09

Tgt Ion: 56 Resp: 76

Ion Ratio Lower Upper

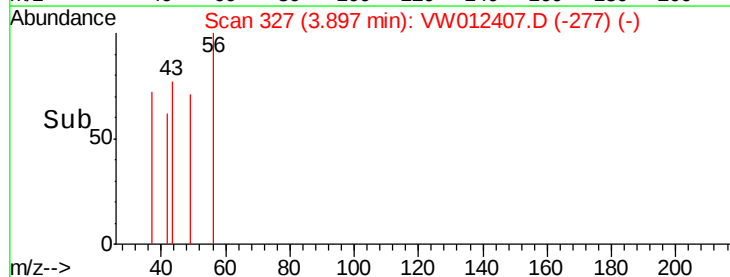
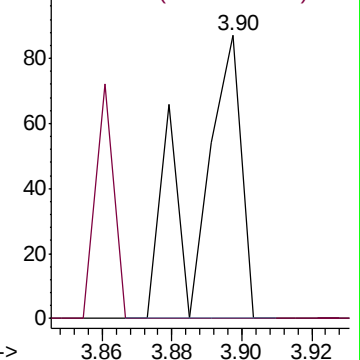
56 100

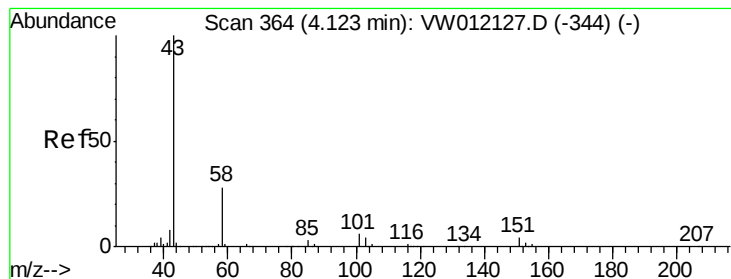
55 0.0 55.8 83.8#



Abundance Ion 56.00 (55.70 to 56.70): VW

Ion 55.00 (54.70 to 55.70): VW





#16

Acetone

Concen: 105.508 ug/l

RT: 4.12 min Scan# 364

Delta R.T. -0.00 min

Lab File: VW012407.D

Acq: 31 Aug 2019 18:09

Instrument :

MSVOA_W

ClientSampleId :

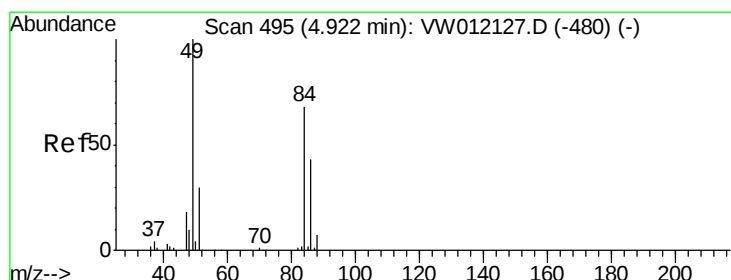
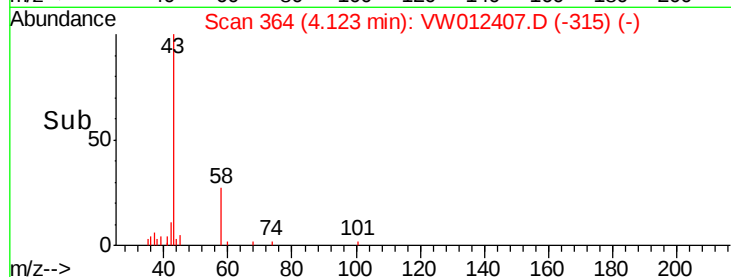
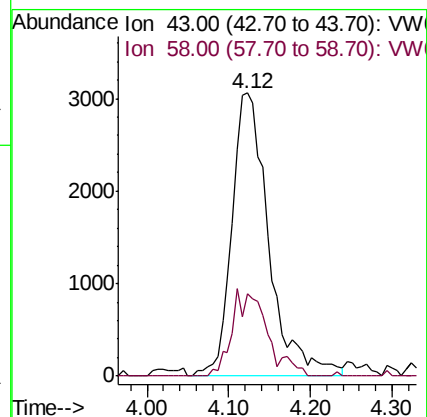
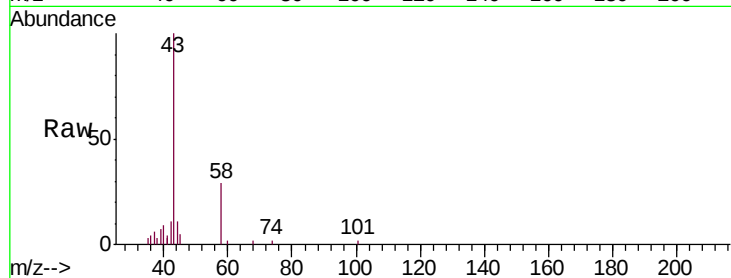
T4-S-D1-(2.5)

Tgt Ion: 43 Resp: 9574

Ion Ratio Lower Upper

43 100

58 29.3 22.4 33.6



#20

Methylene Chloride

Concen: 14.608 ug/l

RT: 4.91 min Scan# 493

Delta R.T. -0.01 min

Lab File: VW012407.D

Acq: 31 Aug 2019 18:09

Tgt Ion: 84 Resp: 5011

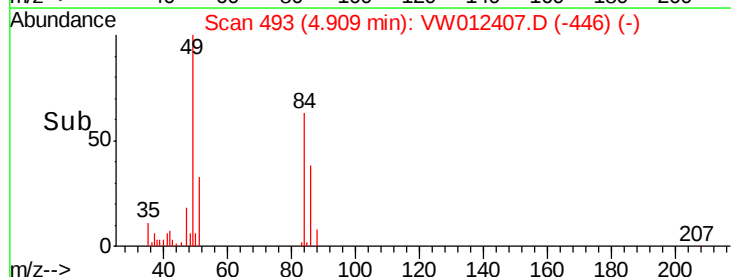
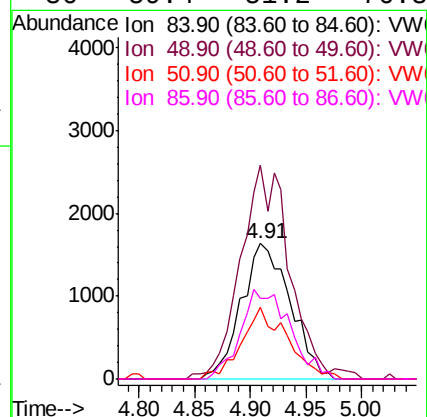
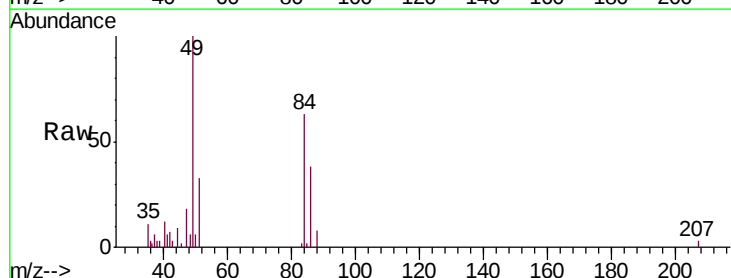
Ion Ratio Lower Upper

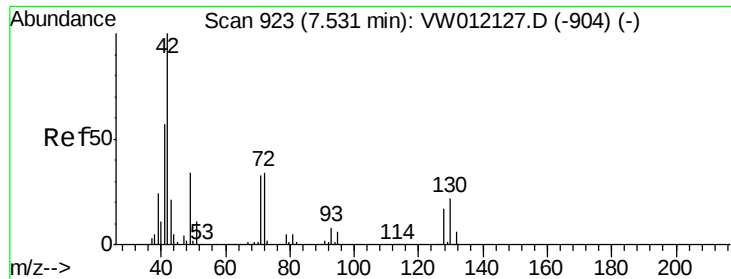
84 100

49 153.9 117.8 176.8

51 52.7 35.6 53.4

86 59.4 51.2 76.8

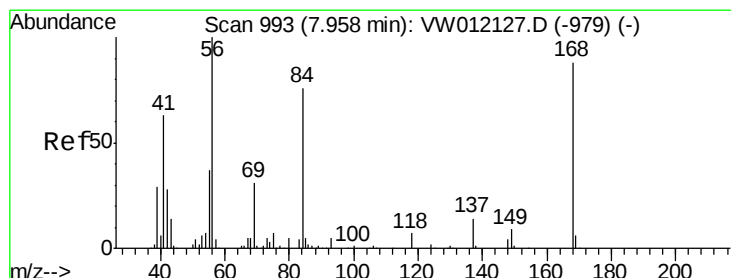
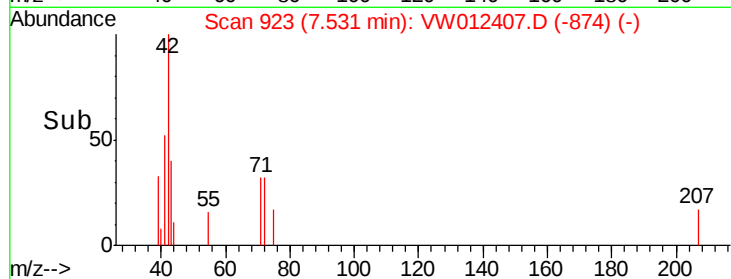
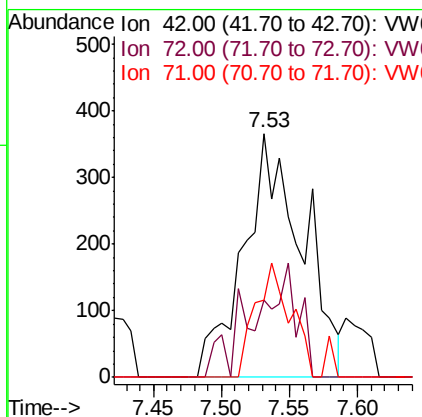
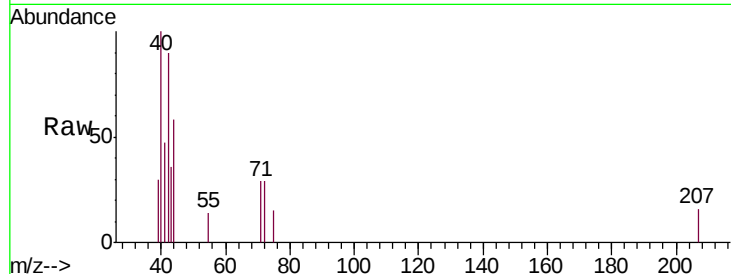




#29
Tetrahydrofuran
Concen: 14.883 ug/l
RT: 7.53 min Scan# 923
Delta R.T. -0.00 min
Lab File: VW012407.D
Acq: 31 Aug 2019 18:09

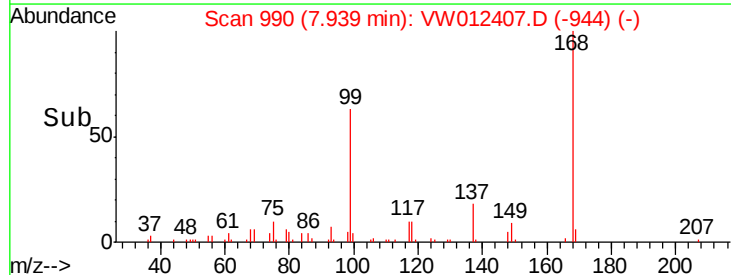
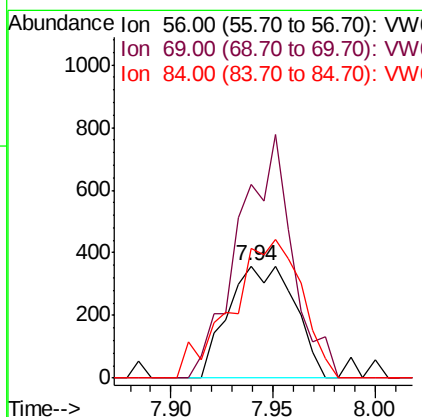
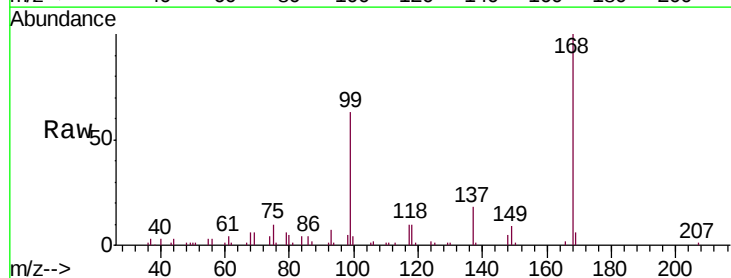
Instrument :
MSVOA_W
ClientSampleId :
T4-S-D1-(2.5)

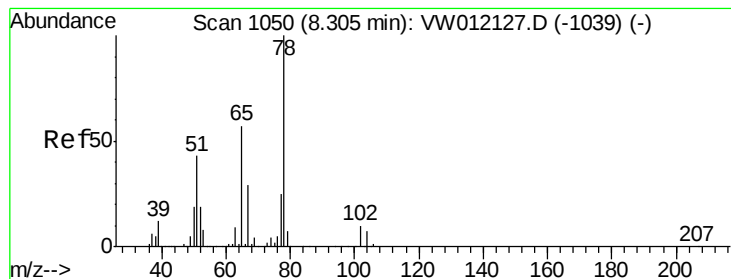
Tgt Ion: 42 Resp: 1101
Ion Ratio Lower Upper
42 100
72 22.7 27.3 40.9#
71 28.3 25.5 38.3



#31
Cyclohexane
Concen: 1.268 ug/l
RT: 7.94 min Scan# 990
Delta R.T. -0.02 min
Lab File: VW012407.D
Acq: 31 Aug 2019 18:09

Tgt Ion: 56 Resp: 811
Ion Ratio Lower Upper
56 100
69 172.1 24.9 37.3#
84 115.3 60.6 90.8#





#33

1,2-Dichloroethane-d4

Concen: 58.752 ug/l

RT: 8.31 min Scan# 1050

Delta R.T. -0.00 min

Lab File: VW012407.D

Acq: 31 Aug 2019 18:09

Instrument :

MSVOA_W

ClientSampleId :

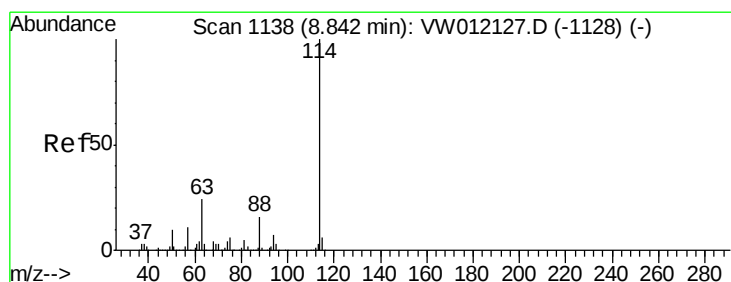
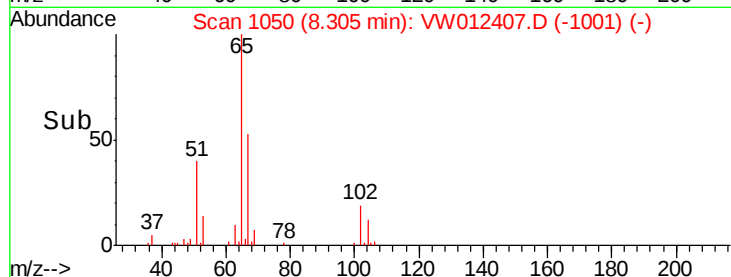
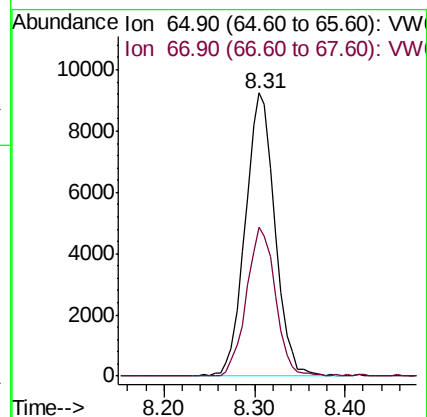
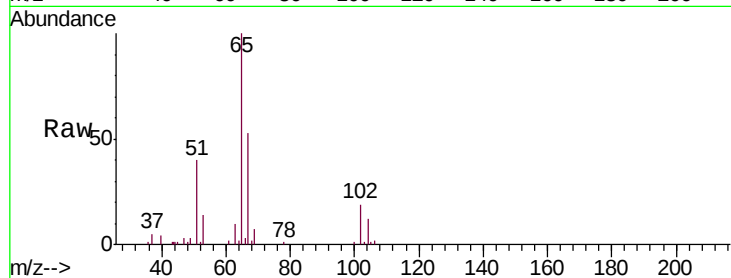
T4-S-D1-(2.5)

Tgt Ion: 65 Resp: 20856

Ion Ratio Lower Upper

65 100

67 51.4 0.0 102.6



#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 8.84 min Scan# 1138

Delta R.T. -0.00 min

Lab File: VW012407.D

Acq: 31 Aug 2019 18:09

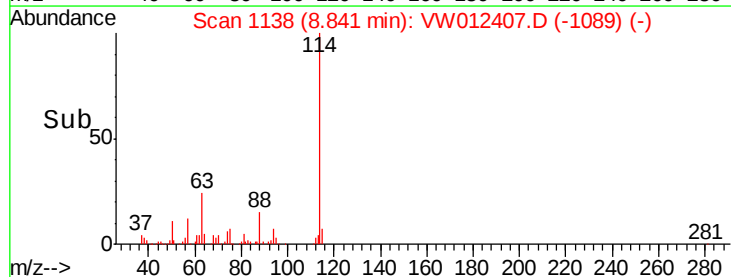
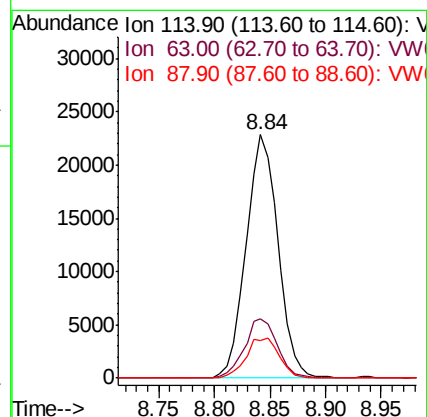
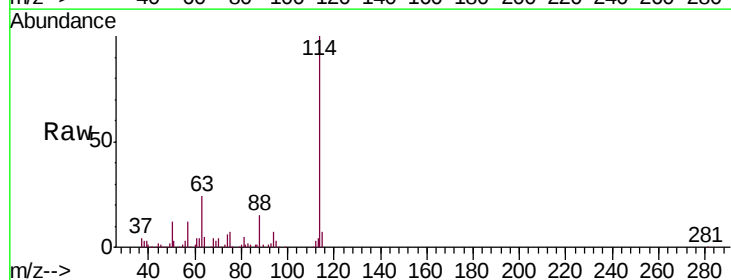
Tgt Ion: 114 Resp: 45679

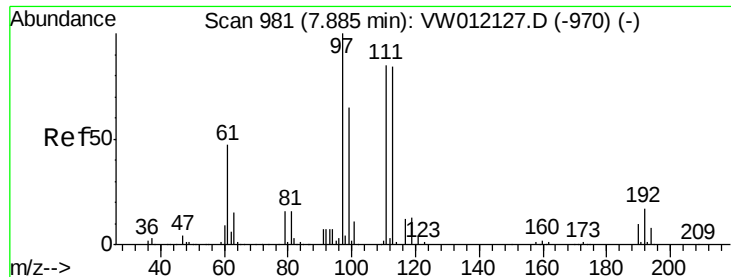
Ion Ratio Lower Upper

114 100

63 24.1 0.0 48.6

88 15.5 0.0 32.2

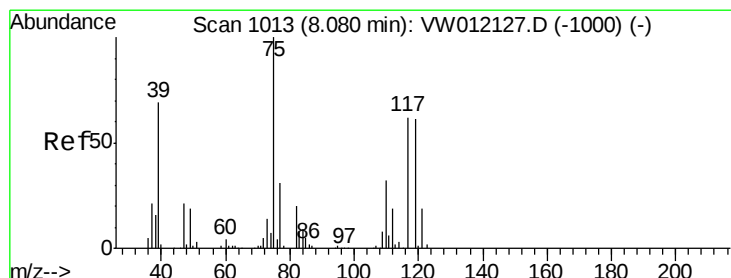
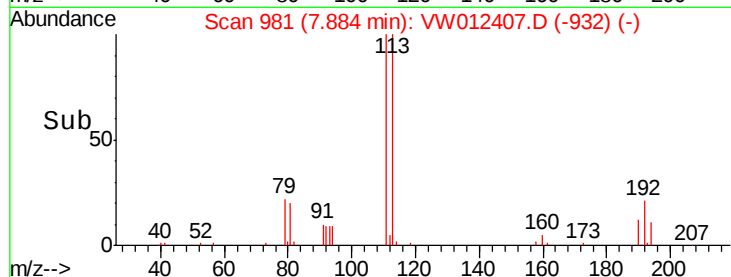
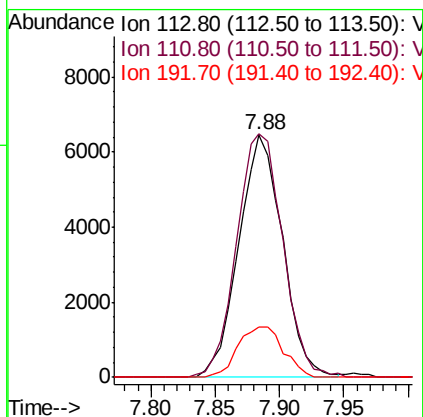
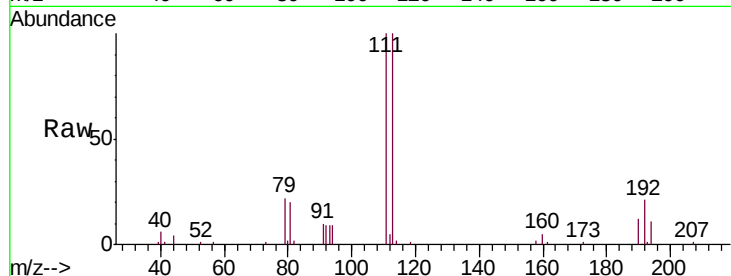




#35
 Dibromofluoromethane
 Concen: 55.678 ug/l
 RT: 7.88 min Scan# 981
 Delta R.T. -0.00 min
 Lab File: VW012407.D
 Acq: 31 Aug 2019 18:09

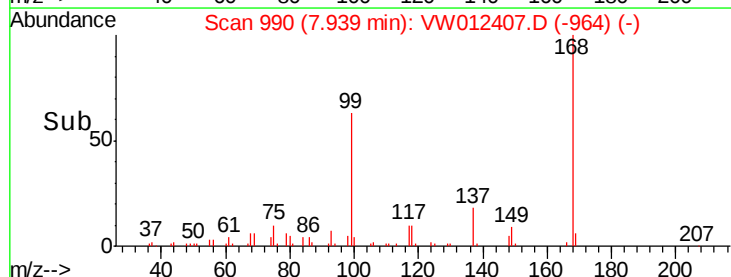
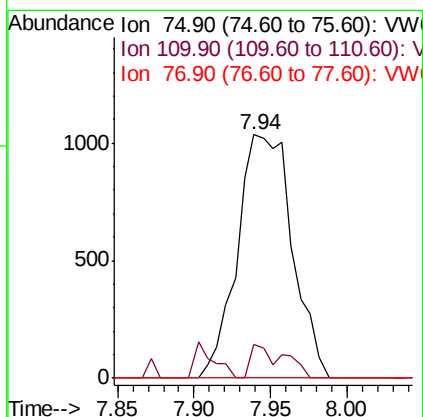
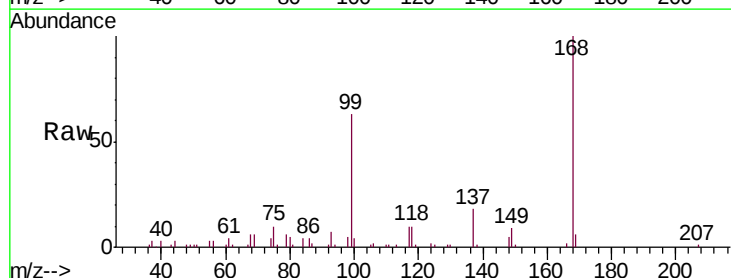
Instrument :
 MSVOA_W
 ClientSampleId :
 T4-S-D1-(2.5)

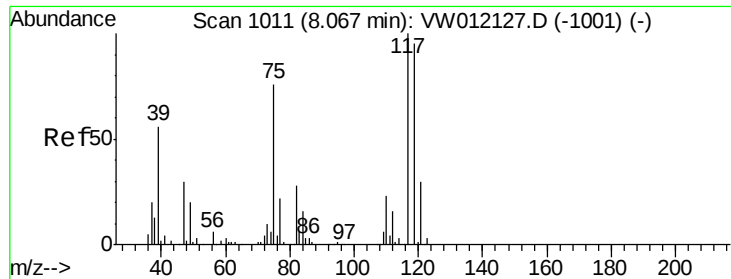
Tgt Ion: 113 Resp: 15181
 Ion Ratio Lower Upper
 113 100
 111 105.8 82.7 124.1
 192 21.7 16.2 24.2



#36
 1,1-Dichloropropene
 Concen: 5.489 ug/l
 RT: 7.94 min Scan# 990
 Delta R.T. -0.14 min
 Lab File: VW012407.D
 Acq: 31 Aug 2019 18:09

Tgt Ion: 75 Resp: 2591
 Ion Ratio Lower Upper
 75 100
 110 4.6 15.6 46.8#
 77 0.0 24.6 36.8#





#38

Carbon Tetrachloride

Concen: 7.414 ug/l

RT: 7.95 min Scan# 992

Delta R.T. -0.12 min

Lab File: VW012407.D

Acq: 31 Aug 2019 18:09

Instrument :

MSVOA_W

ClientSampleId :

T4-S-D1-(2.5)

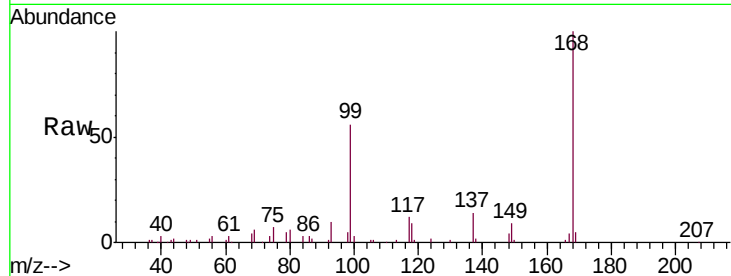
Tgt Ion:117 Resp: 3029

Ion Ratio Lower Upper

117 100

119 6.3 76.2 114.2#

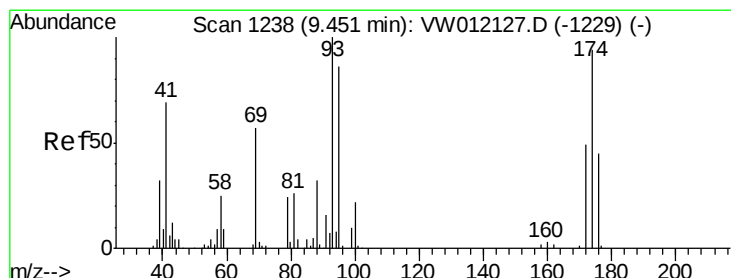
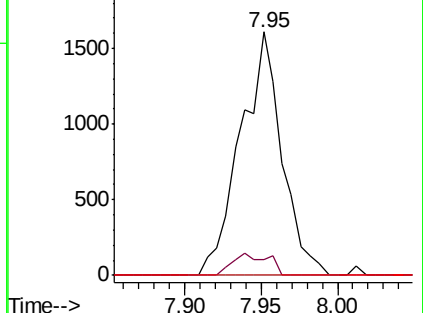
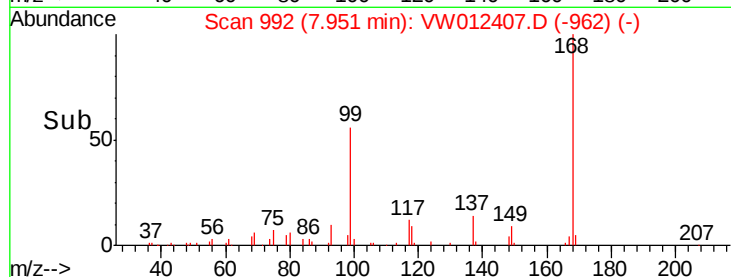
121 0.0 23.8 35.8#



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: 8.041 ug/l

RT: 9.32 min Scan# 1216

Delta R.T. -0.13 min

Lab File: VW012407.D

Acq: 31 Aug 2019 18:09

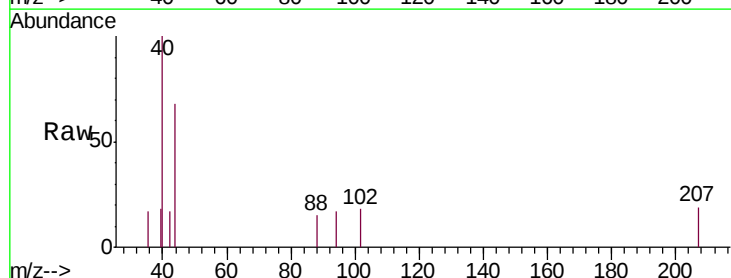
Tgt Ion: 88 Resp: 19

Ion Ratio Lower Upper

88 100

43 0.0 32.9 49.3#

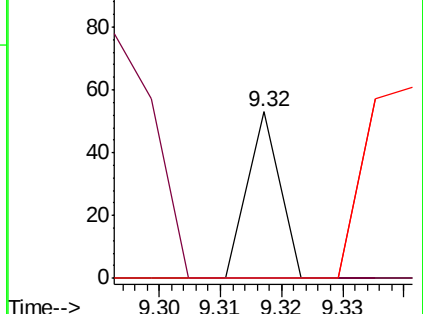
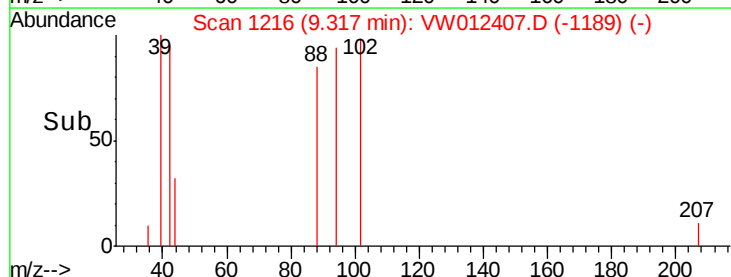
58 0.0 71.0 106.4#

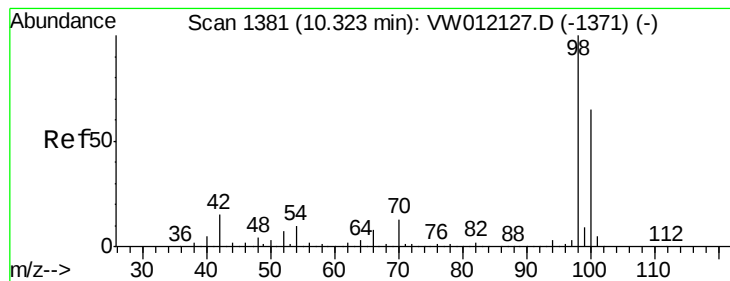


Abundance Ion 88.00 (87.70 to 88.70): VW

Ion 43.00 (42.70 to 43.70): VW

Ion 58.00 (57.70 to 58.70): VW





#50

Toluene-d8

Concen: 50.859 ug/l

RT: 10.32 min Scan# 1381

Delta R.T. -0.00 min

Lab File: VW012407.D

Acq: 31 Aug 2019 18:09

Instrument :

MSVOA_W

ClientSampleId :

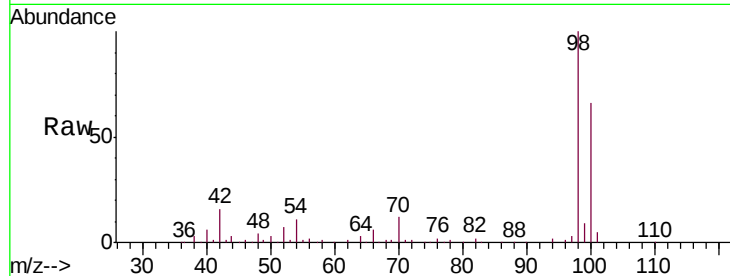
T4-S-D1-(2.5)

Tgt Ion: 98 Resp: 56227

Ion Ratio Lower Upper

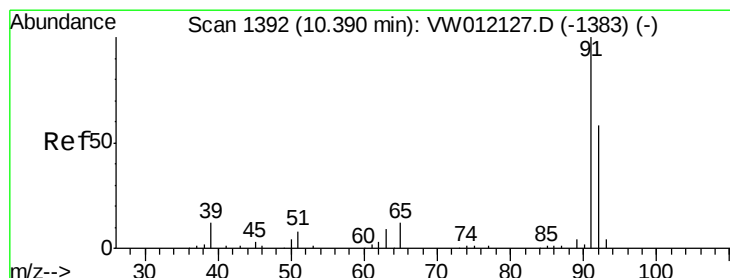
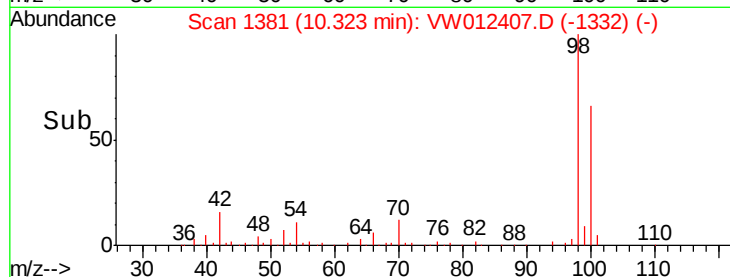
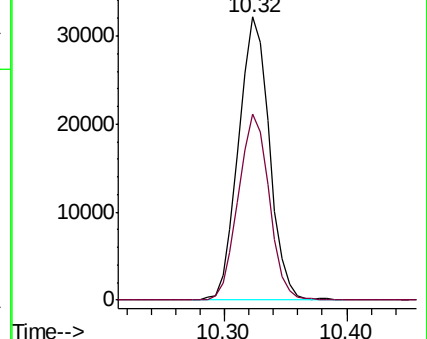
98 100

100 65.5 52.4 78.6



Abundance Ion 98.00 (97.70 to 98.70): VW

Ion 100.00 (99.70 to 100.70): VW



#52

Toluene

Concen: 1.065 ug/l

RT: 10.39 min Scan# 1392

Delta R.T. -0.00 min

Lab File: VW012407.D

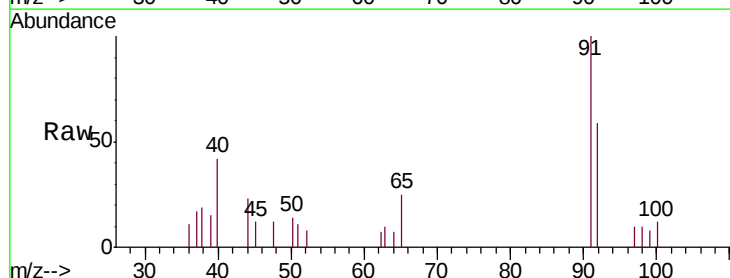
Acq: 31 Aug 2019 18:09

Tgt Ion: 92 Resp: 825

Ion Ratio Lower Upper

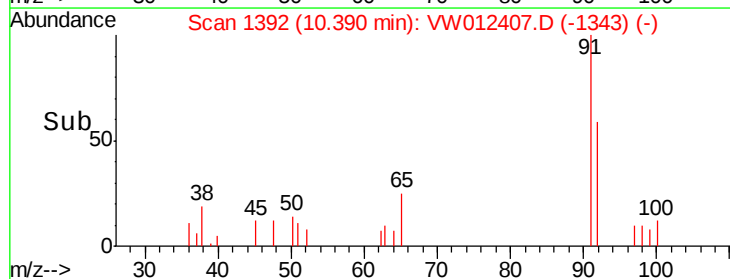
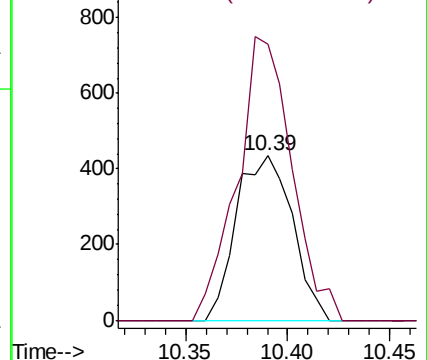
92 100

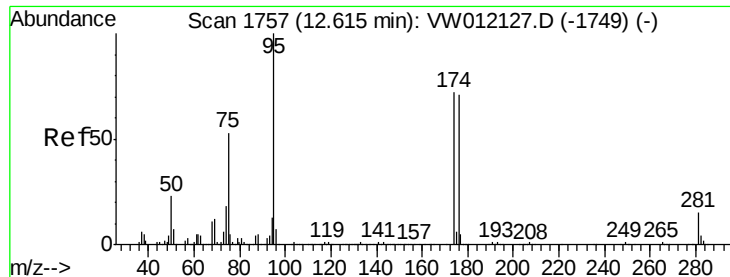
91 169.1 136.6 204.8



Abundance Ion 92.00 (91.70 to 92.70): VW

Ion 91.00 (90.70 to 91.70): VW





#62

4-Bromofluorobenzene

Concen: 39.904 ug/l

RT: 12.62 min Scan# 1758

Delta R.T. 0.01 min

Lab File: VW012407.D

Acq: 31 Aug 2019 18:09

Instrument :

MSVOA_W

ClientSampleId :

T4-S-D1-(2.5)

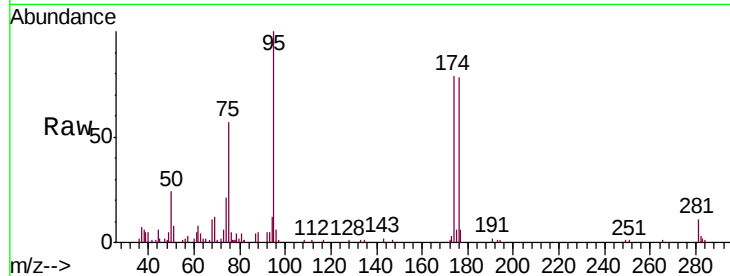
Tgt Ion: 95 Resp: 15551

Ion Ratio Lower Upper

95 100

174 80.3 0.0 150.8

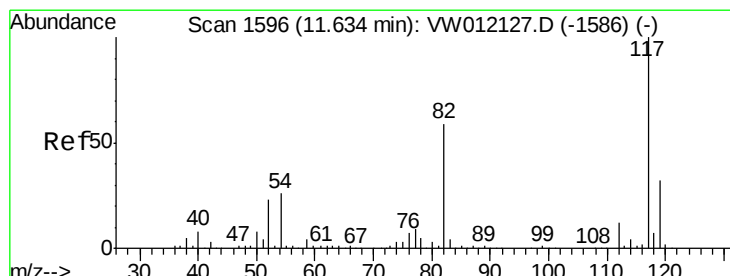
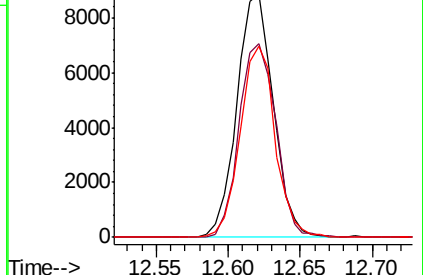
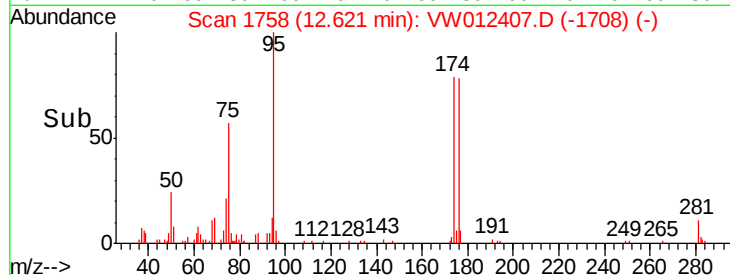
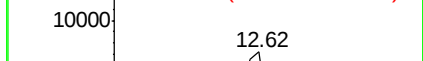
176 75.5 0.0 148.6



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: VW012407.D

Acq: 31 Aug 2019 18:09

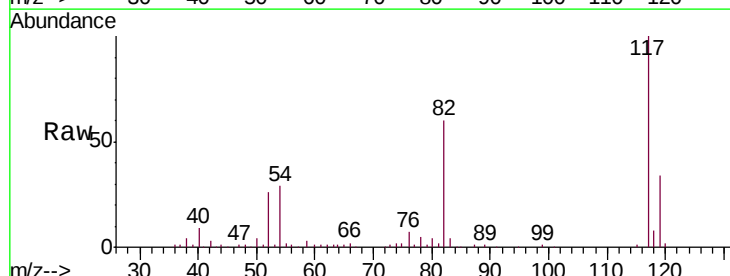
Tgt Ion: 117 Resp: 38591

Ion Ratio Lower Upper

117 100

82 60.3 47.4 71.2

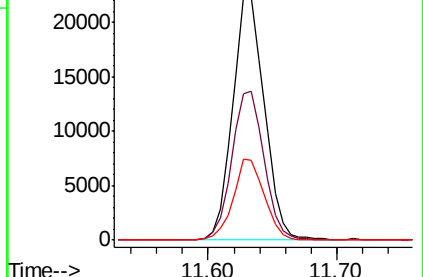
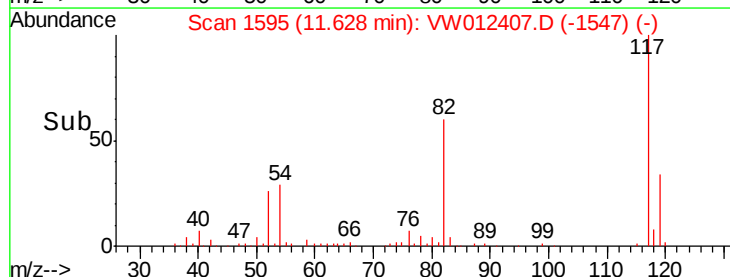
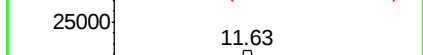
119 33.5 25.4 38.2

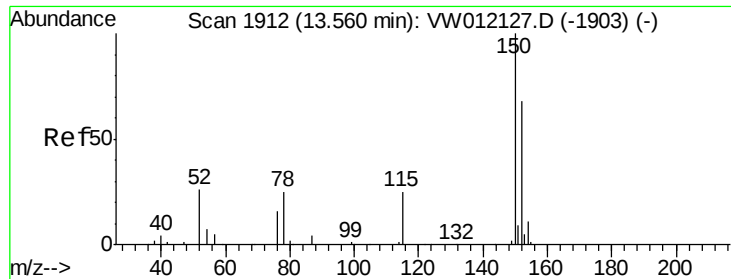


Abundance Ion 116.90 (116.60 to 117.60): VW

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: VW012407.D

Acq: 31 Aug 2019 18:09

Instrument :

MSVOA_W

ClientSampleId :

T4-S-D1-(2.5)

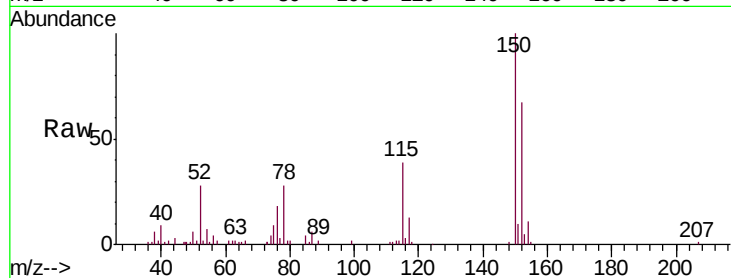
Tgt Ion:152 Resp: 11459

Ion Ratio Lower Upper

152 100

115 59.5 30.1 90.3

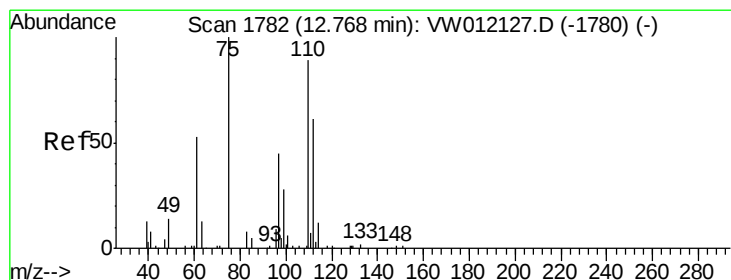
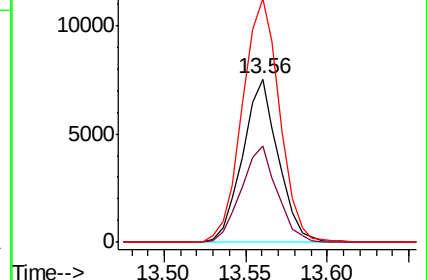
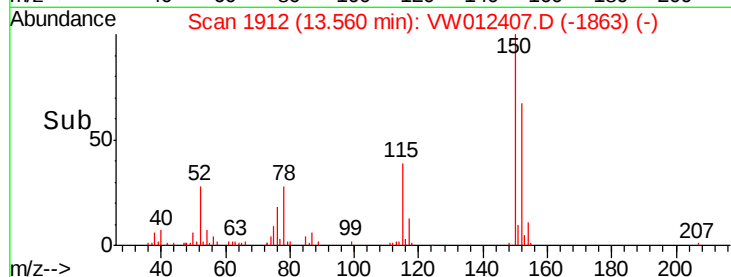
150 156.0 0.0 345.8



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: 77.149 ug/l

RT: 12.62 min Scan# 1758

Delta R.T. -0.15 min

Lab File: VW012407.D

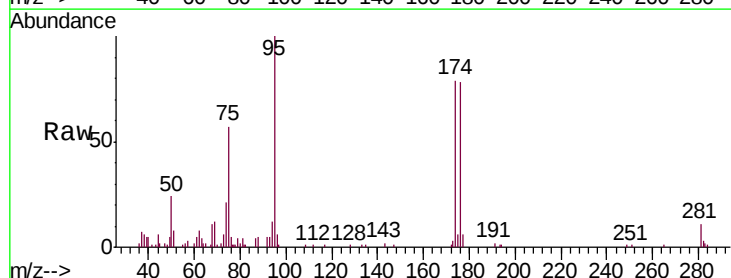
Acq: 31 Aug 2019 18:09

Tgt Ion: 75 Resp: 8610

Ion Ratio Lower Upper

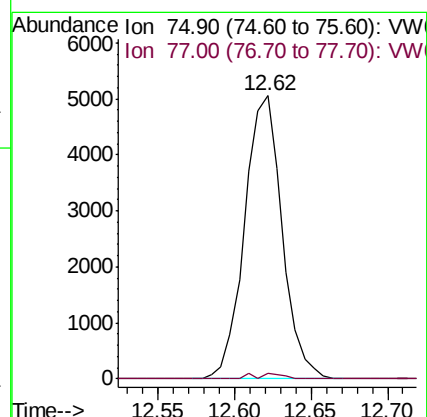
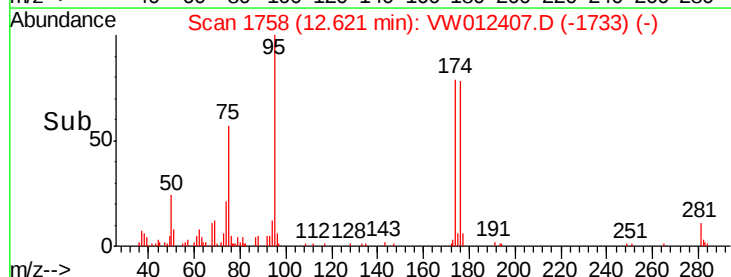
75 100

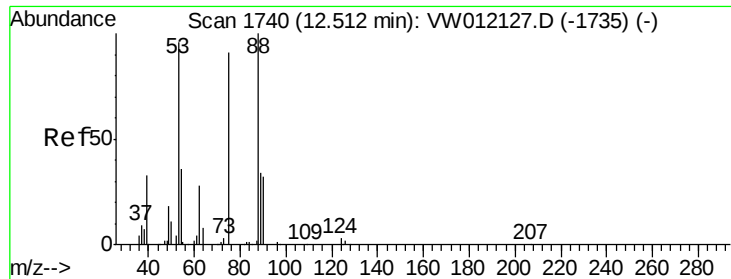
77 1.4 0.0 0.0#



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: 169.152 ug/l

RT: 12.62 min Scan# 1758

Delta R.T. 0.11 min

Lab File: VW012407.D

Acq: 31 Aug 2019 18:09

Instrument :

MSVOA_W

ClientSampleId :

T4-S-D1-(2.5)

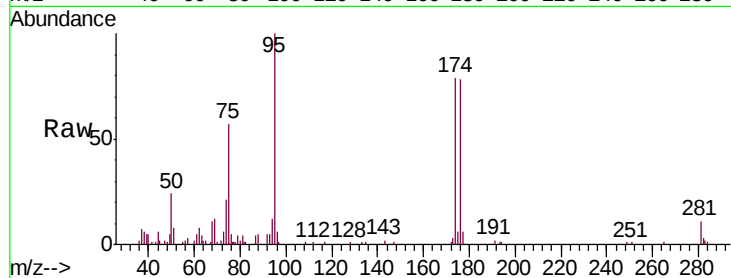
Tgt Ion: 75 Resp: 8610

Ion Ratio Lower Upper

75 100

53 0.3 89.4 134.0#

89 0.0 34.5 51.7#



Abundance Ion 74.90 (74.60 to 75.60): VW

Ion 53.00 (52.70 to 53.70): VW

Ion 88.90 (88.60 to 89.60): VW

