

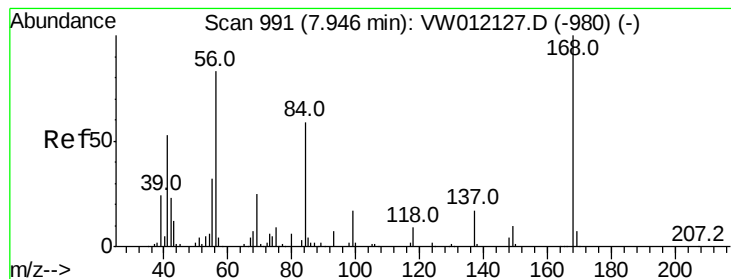
Data Path : Z:\VOASRV\HPCHEM1\MSVOA W\DATA\VW090319\
 Data File : VW012553.D
 Acq On : 03 Sep 2019 18:04
 Operator : SY/VA
 Sample : K4514-05RE
 Misc : 5.21G/5ML/MSVOA W/SOIL
 ALS Vial : 22 Sample Multiplier: 1

Instrument :
 MSVOA_W
 ClientSampleId :

Quant Time: Sep 03 18:48:06 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	230894	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	8.84	114	363331	50.00	ug/l	0.00
63) Chlorobenzene-d5	11.63	117	239034	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.56	152	57281	50.00	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	8.31	65	149418	54.44	ug/l	0.00
Spiked Amount	50.000		Recovery	=	108.88%	
35) Dibromofluoromethane	7.88	113	115188	53.11	ug/l	0.00
Spiked Amount	50.000		Recovery	=	106.22%	
50) Toluene-d8	10.32	98	425406	48.38	ug/l	0.00
Spiked Amount	50.000		Recovery	=	96.76%	
62) 4-Bromofluorobenzene	12.62	95	86490	27.90	ug/l	0.00
Spiked Amount	50.000		Recovery	=	55.80%	
Target Compounds						
					Qvalue	
4) Vinyl Chloride	2.36	62	6045	2.242	ug/l	89
8) Diethyl Ether	3.68	74	1955	1.521	ug/l	67
9) 1,1,2-Trichlorotrifluoroet	4.06	101	6771	2.943	ug/l	96
11) Tert butyl alcohol	5.20	59	1318	7.979	ug/l #	71
13) Acrolein	3.90	56	271	1.743	ug/l #	15
16) Acetone	4.13	43	152548	217.423	ug/l	100
17) Carbon Disulfide	4.38	76	13849	1.979	ug/l	95
20) Methylene Chloride	4.91	84	14536	5.480	ug/l	96
25) 2-Butanone	7.18	43	34476	36.160	ug/l	97
27) cis-1,2-Dichloroethene	7.17	96	9105	3.431	ug/l	92
29) Tetrahydrofuran	7.54	42	5791	10.124	ug/l	98
31) Cyclohexane	7.95	56	6805	1.376	ug/l #	1
36) 1,1-Dichloropropene	7.95	75	18970	5.052	ug/l #	53
37) Ethyl Acetate	7.18	43	34476	16.757	ug/l #	73
38) Carbon Tetrachloride	7.95	117	23305	7.171	ug/l #	16
41) Methacrylonitrile	7.53	41	3782	3.128	ug/l #	57
49) 1,4-Dioxane	9.68	88	27	1.437	ug/l #	1
52) Toluene	10.38	92	15035	2.441	ug/l	100
67) Ethyl Benzene	11.73	91	14149	1.561	ug/l	97
76) 1,2,3-Trichloropropane	12.62	75	47258	84.711	ug/l #	100
81) trans-1,4-Dichloro-2-buten	12.62	75	47258	185.731	ug/l #	6
95) Naphthalene	15.36	128	261	4.431	ug/l #	69

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



#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 7.95 min Scan# 991

Delta R.T. -0.00 min

Lab File: VW012553.D

Acq: 03 Sep 2019 18:04

Instrument :

MSVOA_W

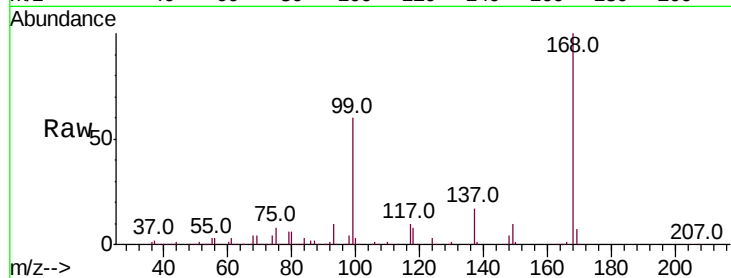
ClientSampled :

Tot Ion:168 Resp: 230894

Ion Ratio Lower Upper

168 100

99 60.2 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

120000

100000

80000

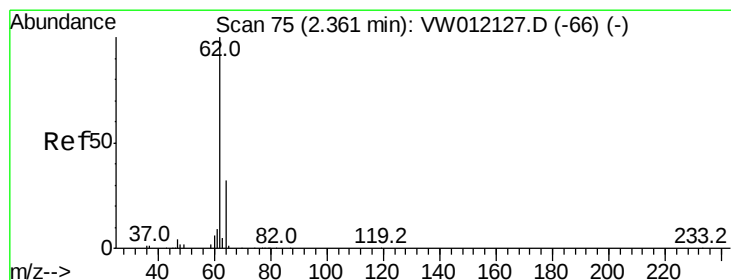
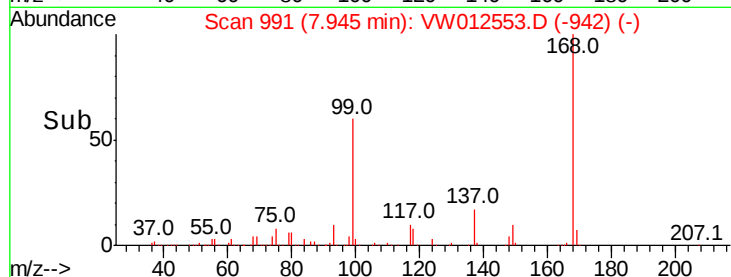
60000

40000

20000

0

Time--> 7.80 7.90 8.00 8.10



#4

Vinyl Chloride

Concen: 2.242 ug/l

RT: 2.36 min Scan# 75

Delta R.T. -0.00 min

Lab File: VW012553.D

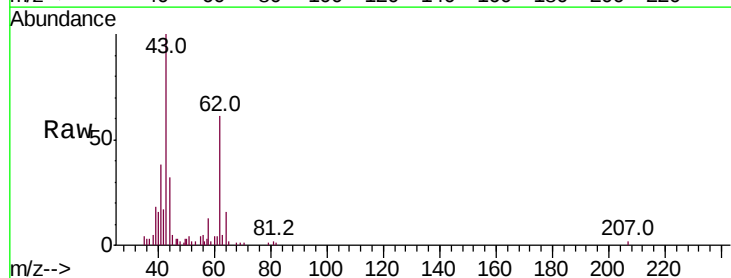
Acq: 03 Sep 2019 18:04

Tgt Ion: 62 Resp: 6045

Ion Ratio Lower Upper

62 100

64 25.7 25.3 37.9



Abundance Ion 61.90 (61.60 to 62.60): VW

Ion 63.90 (63.60 to 64.60): VW

2.36

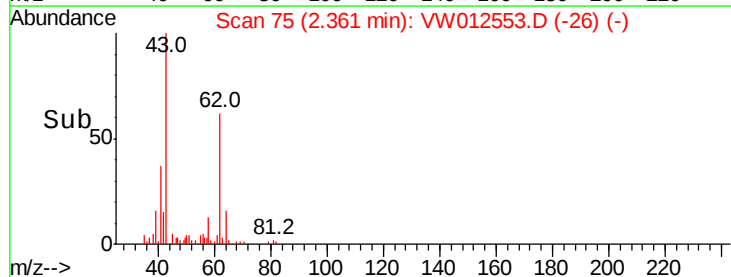
3000

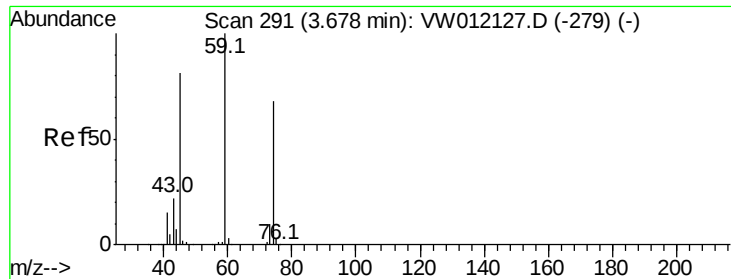
2000

1000

0

Time--> 2.30 2.35 2.40 2.45





#8

Diethyl Ether

Concen: 1.521 ug/l

RT: 3.68 min Scan# 291

Delta R.T. -0.00 min

Lab File: VW012553.D

Acq: 03 Sep 2019 18:04

Instrument :

MSVOA_W

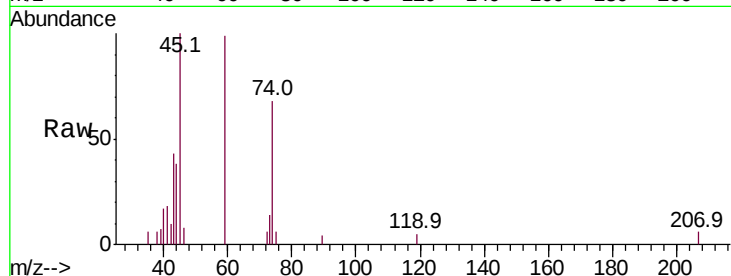
ClientSampleId :

Tot Ion: 74 Resp: 1955

Ion Ratio Lower Upper

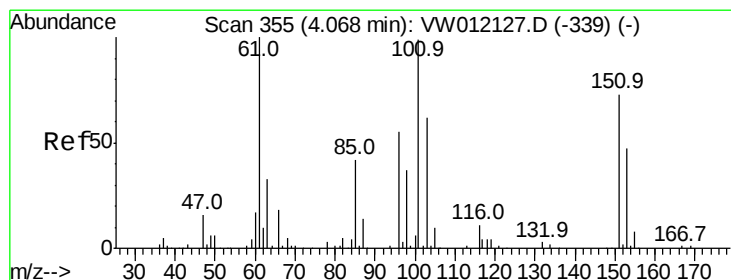
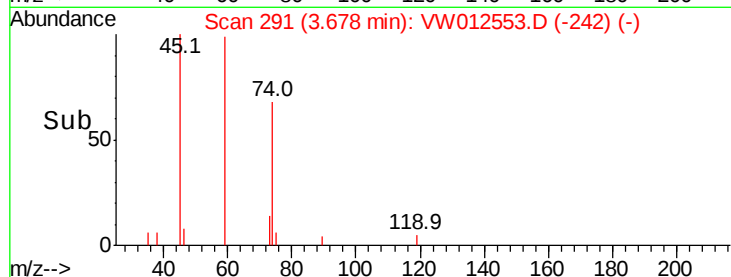
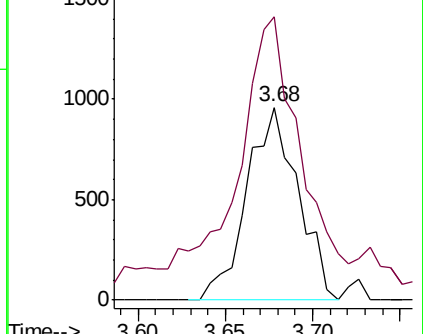
74 100

45 155.1 59.2 177.6



Abundance Ion 74.00 (73.70 to 74.70): VW

Ion 45.00 (44.70 to 45.70): VW



#9

1,1,2-Trichlorotrifluoroethane

Concen: 2.943 ug/l

RT: 4.06 min Scan# 353

Delta R.T. -0.01 min

Lab File: VW012553.D

Acq: 03 Sep 2019 18:04

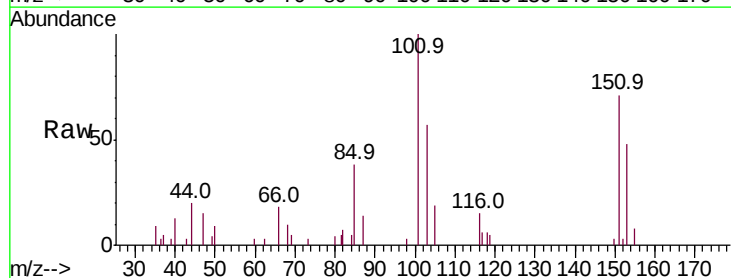
Tgt Ion:101 Resp: 6771

Ion Ratio Lower Upper

101 100

85 43.1 35.8 53.6

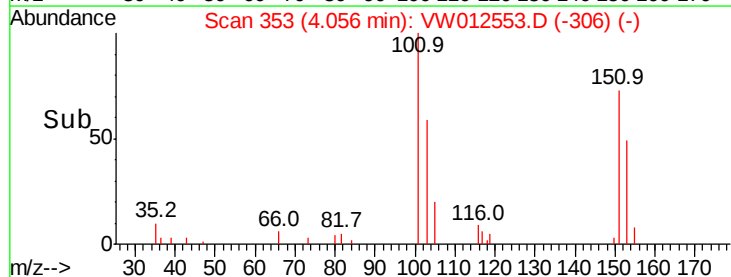
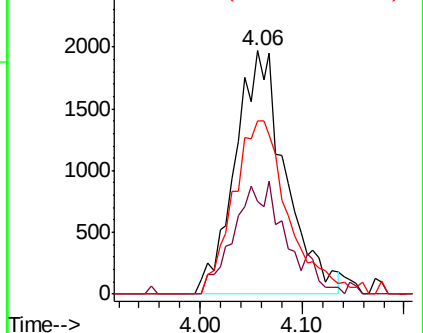
151 77.3 58.6 87.8

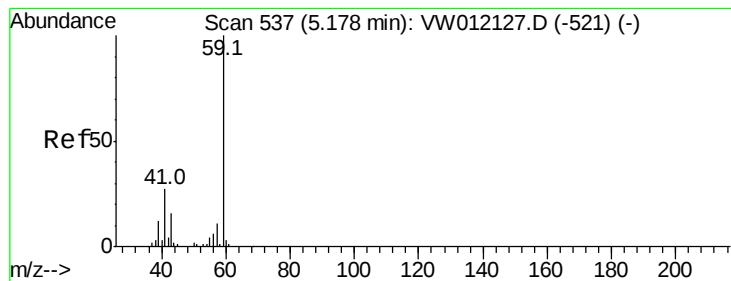


Abundance Ion 100.90 (100.60 to 101.60): V

Ion 84.90 (84.60 to 85.60): VW

Ion 150.80 (150.50 to 151.50): V



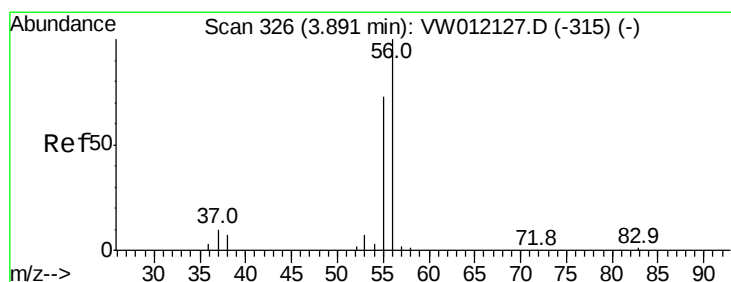
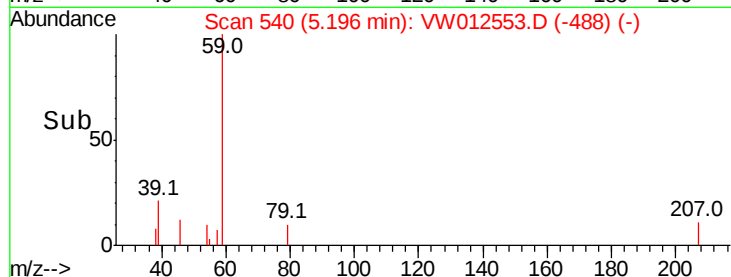
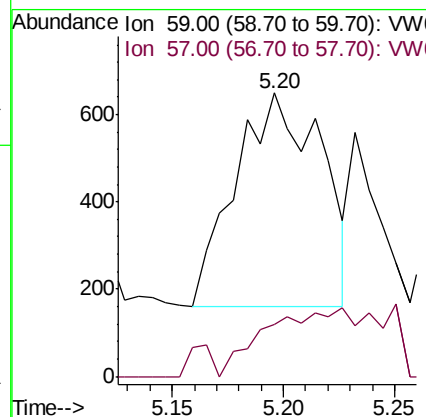
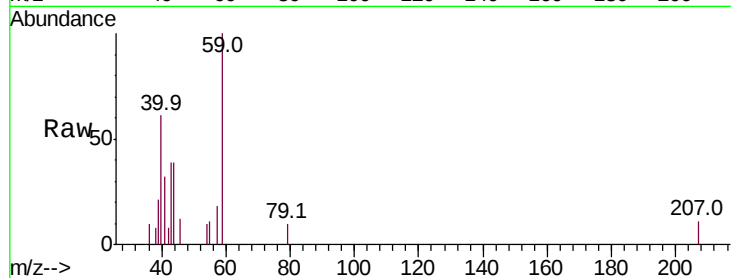


#11

Tert butvl alcohol
Concen: 7.979 ug/l
RT: 5.20 min Scan# 540
Delta R.T. 0.02 min
Lab File: VW012553.D
Acq: 03 Sep 2019 18:04

Instrument :
MSVOA_W
ClientSampled :

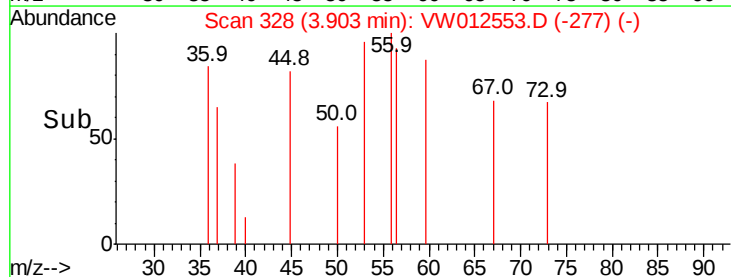
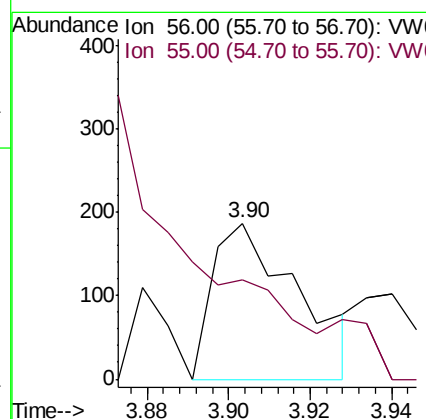
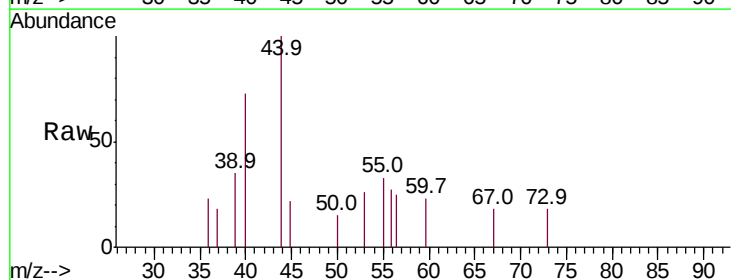
Tot Ion: 59 Resp: 1318
Ion Ratio Lower Upper
59 100
57 0.0 9.0 13.4#

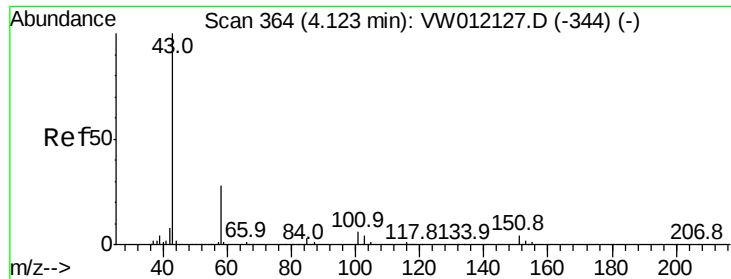


#13

Acrolein
Concen: 1.743 ug/l
RT: 3.90 min Scan# 328
Delta R.T. 0.01 min
Lab File: VW012553.D
Acq: 03 Sep 2019 18:04

Tgt Ion: 56 Resp: 271
Ion Ratio Lower Upper
56 100
55 0.0 55.8 83.8#





#16

Acetone

Concen: 217.423 ug/l

RT: 4.13 min Scan# 365

Delta R.T. 0.01 min

Lab File: VW012553.D

Acq: 03 Sep 2019 18:04

Instrument :

MSVOA_W

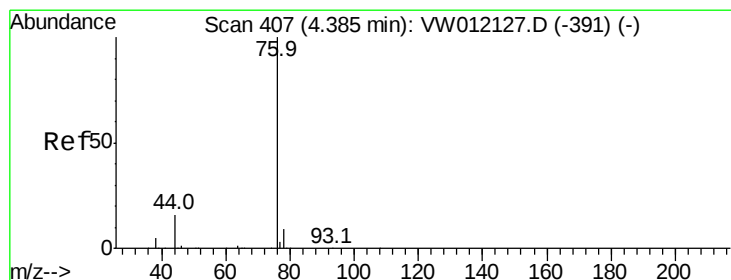
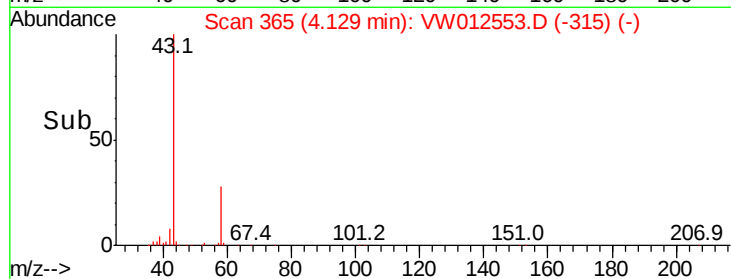
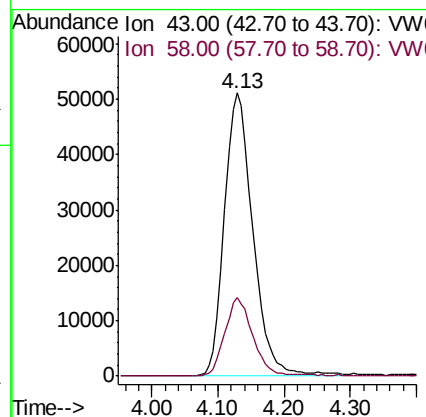
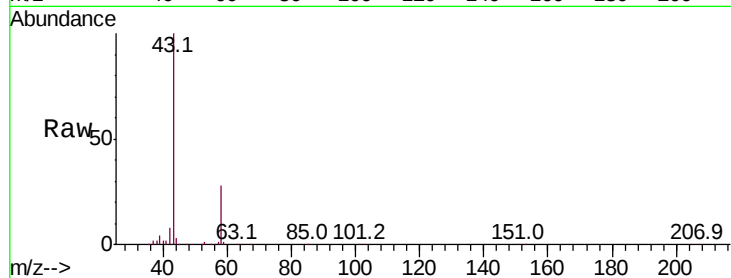
ClientSampleId :

Tot Ion: 43 Resp: 152548

Ion Ratio Lower Upper

43 100

58 27.8 22.4 33.6



#17

Carbon Disulfide

Concen: 1.979 ug/l

RT: 4.38 min Scan# 406

Delta R.T. -0.01 min

Lab File: VW012553.D

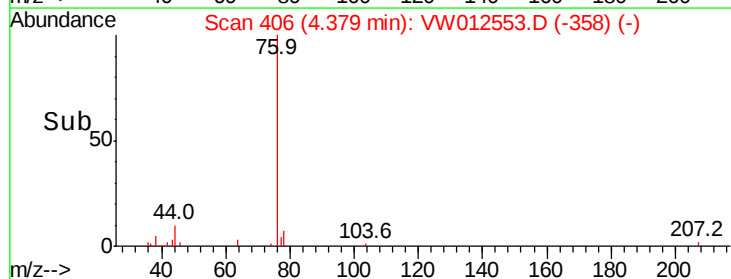
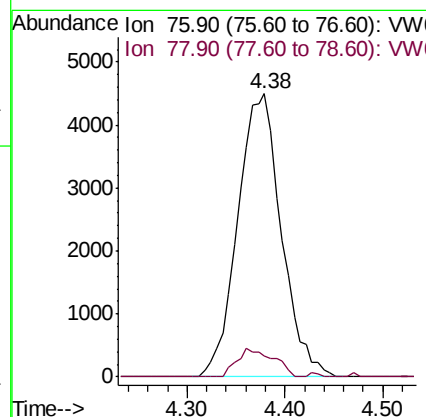
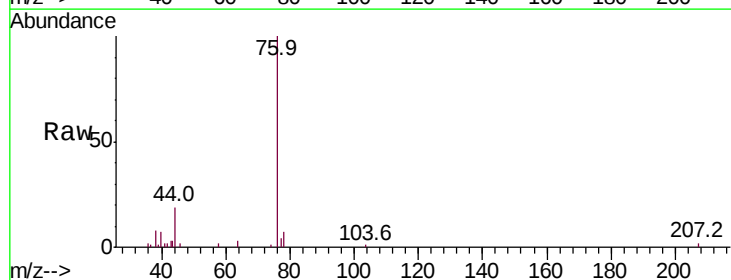
Acq: 03 Sep 2019 18:04

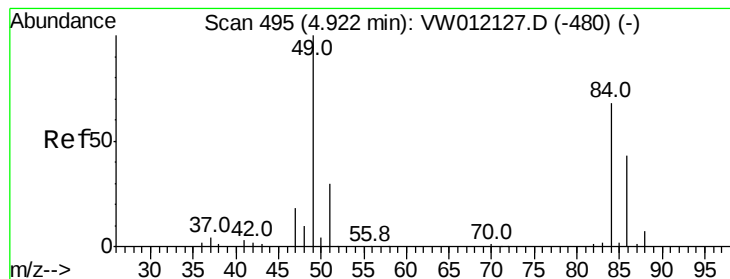
Tgt Ion: 76 Resp: 13849

Ion Ratio Lower Upper

76 100

78 7.5 7.3 10.9





#20

Methvlene Chloride

Concen: 5.480 ug/l

RT: 4.91 min Scan# 493

Delta R.T. -0.01 min

Lab File: VW012553.D

Acq: 03 Sep 2019 18:04

Instrument :

MSVOA_W

ClientSampled :

Tot Ion: 84 Resp: 14536

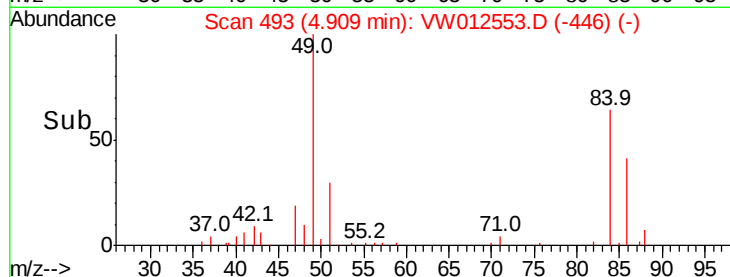
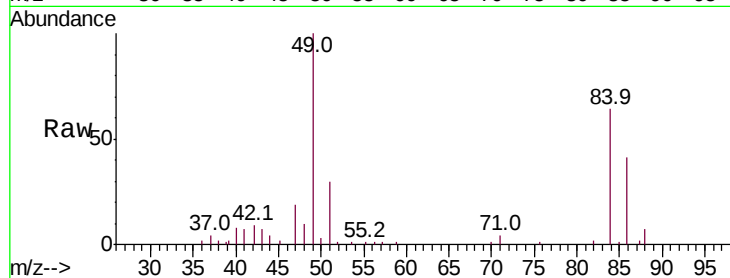
Ion Ratio Lower Upper

84 100

49 155.2 117.8 176.8

51 46.3 35.6 53.4

86 64.1 51.2 76.8

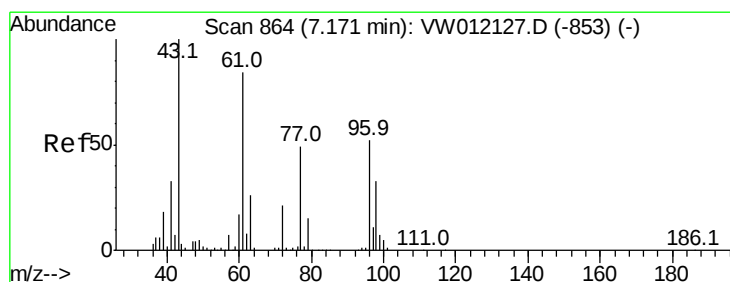
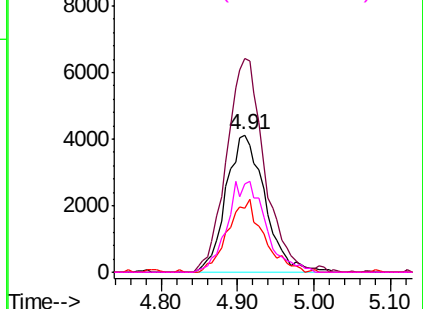


Abundance Ion 83.90 (83.60 to 84.60): VW

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: 36.160 ug/l

RT: 7.18 min Scan# 865

Delta R.T. 0.01 min

Lab File: VW012553.D

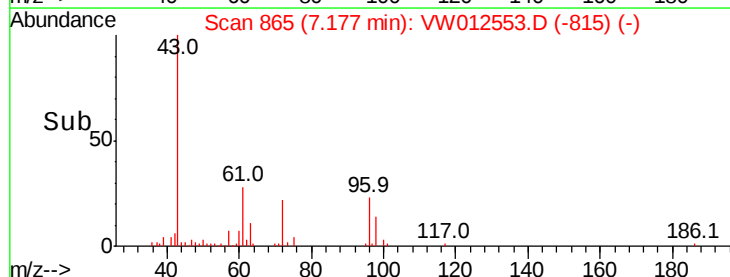
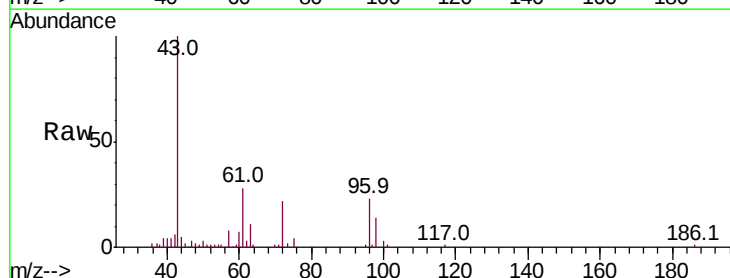
Acq: 03 Sep 2019 18:04

Tgt Ion: 43 Resp: 34476

Ion Ratio Lower Upper

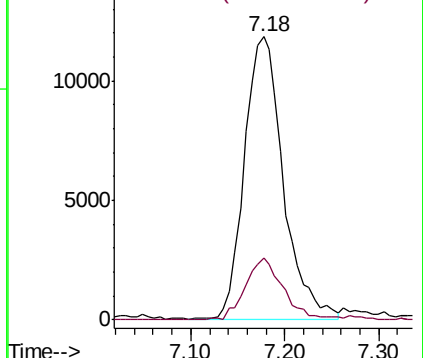
43 100

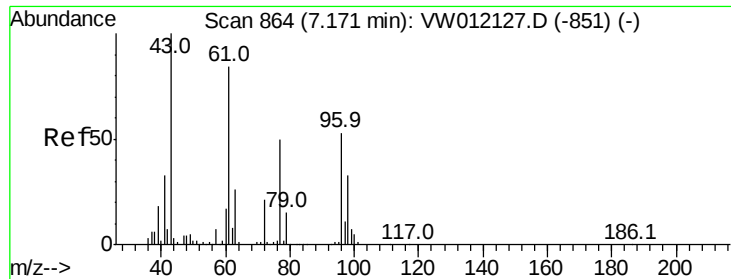
72 22.0 16.6 24.8



Abundance Ion 43.00 (42.70 to 43.70): VW

Ion 72.00 (71.70 to 72.70): VW



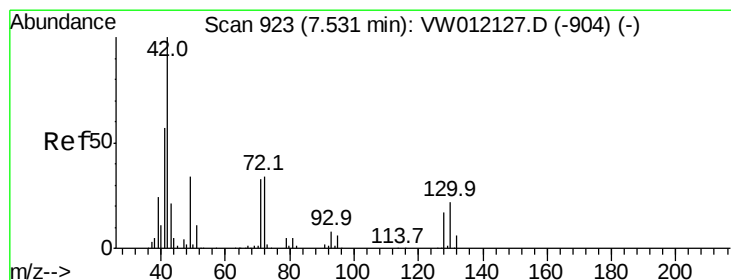
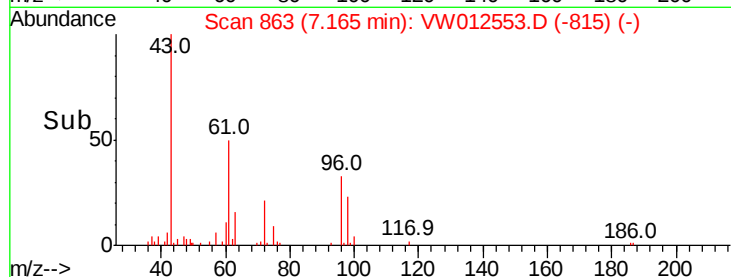
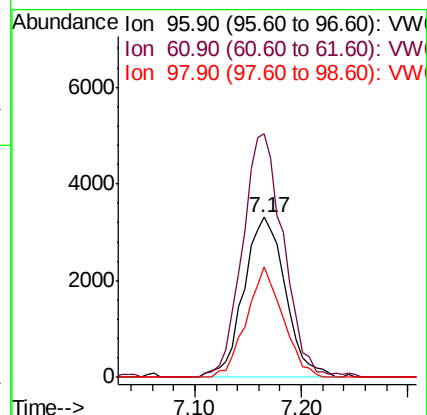
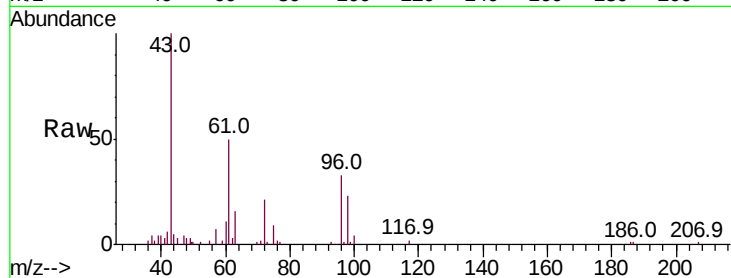


#27

cis-1,2-Dichloroethene
 Concen: 3.431 ug/l
 RT: 7.17 min Scan# 863
 Delta R.T. -0.01 min
 Lab File: VW012553.D
 Acq: 03 Sep 2019 18:04

Instrument :
 MSVOA_W
 ClientSampleId :

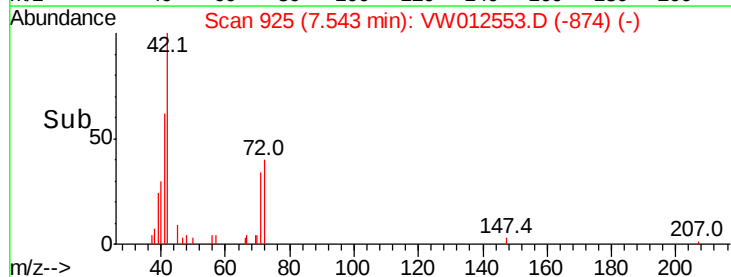
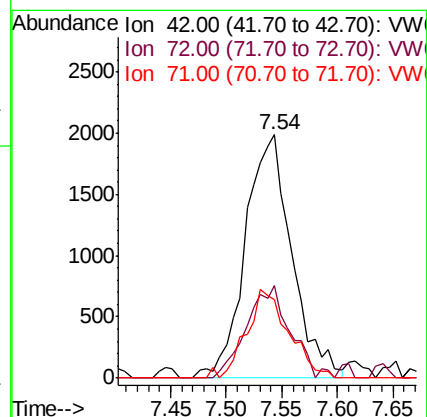
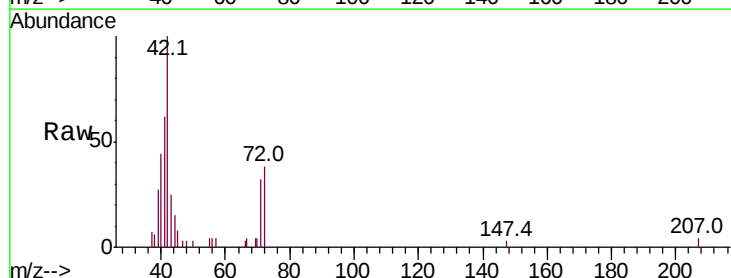
Tot Ion	96	Resp	9105
Ion	Ratio	Lower	Upper
96	100		
61	150.5	0.0	326.6
98	60.4	0.0	127.4

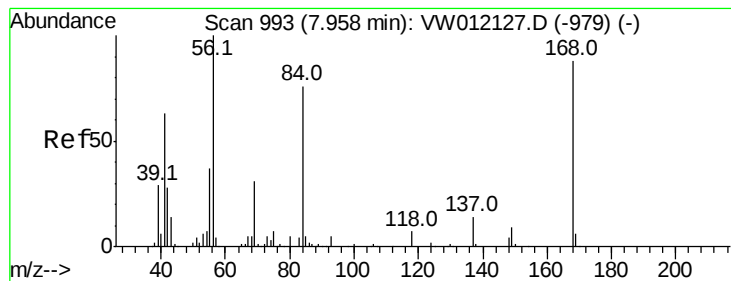


#29

Tetrahydrofuran
 Concen: 10.124 ug/l
 RT: 7.54 min Scan# 925
 Delta R.T. 0.01 min
 Lab File: VW012553.D
 Acq: 03 Sep 2019 18:04

Tgt Ion	42	Resp	5791
Ion	Ratio	Lower	Upper
42	100		
72	35.6	27.3	40.9
71	33.1	25.5	38.3





#31

Cyclohexane

Concen: 1.376 ug/l

RT: 7.95 min Scan# 991

Delta R.T. -0.01 min

Lab File: VW012553.D

Acq: 03 Sep 2019 18:04

Instrument :
MSVOA_W
ClientSampled :

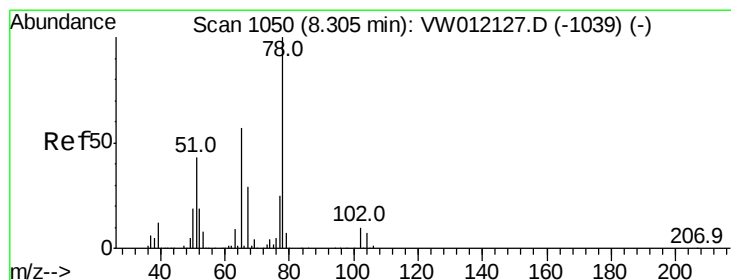
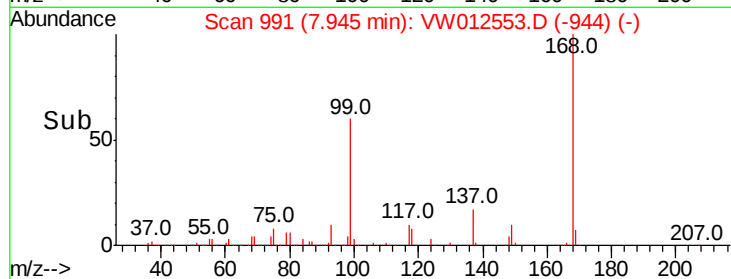
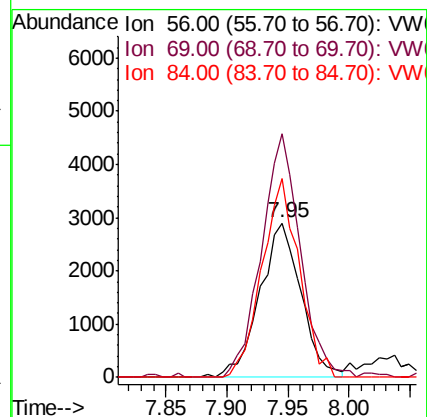
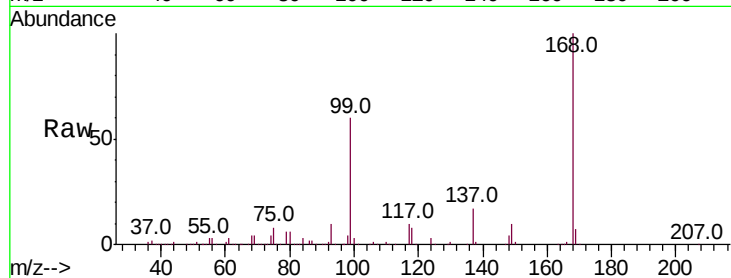
Tot Ion: 56 Resp: 6805

Ion Ratio Lower Upper

56 100

69 158.0 24.9 37.3#

84 129.0 60.6 90.8#



#33

1,2-Dichloroethane-d4

Concen: 54.437 ug/l

RT: 8.31 min Scan# 1050

Delta R.T. -0.00 min

Lab File: VW012553.D

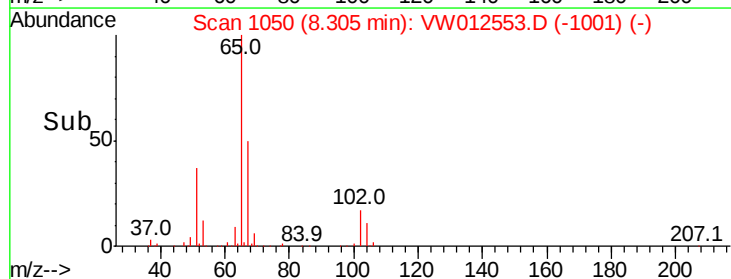
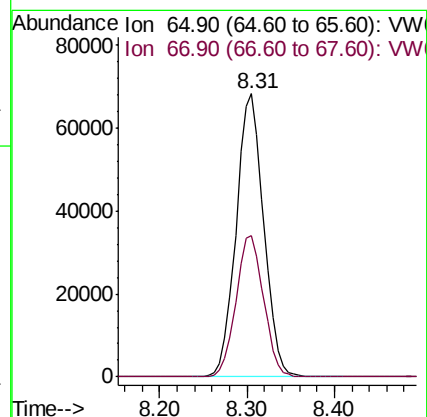
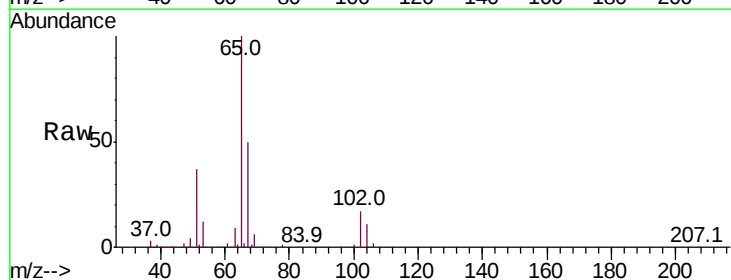
Acq: 03 Sep 2019 18:04

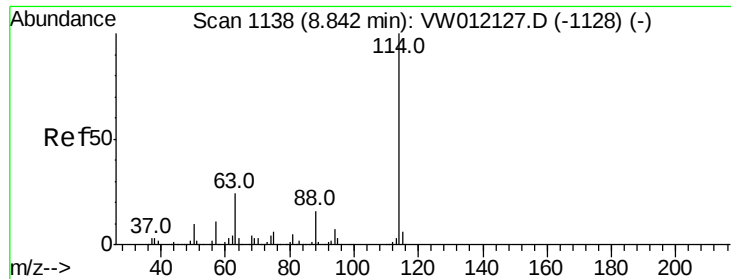
Tgt Ion: 65 Resp: 149418

Ion Ratio Lower Upper

65 100

67 50.2 0.0 102.6

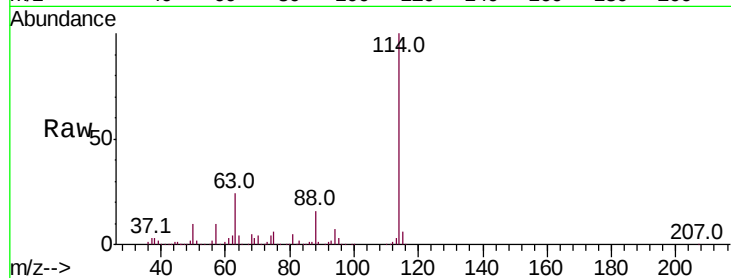




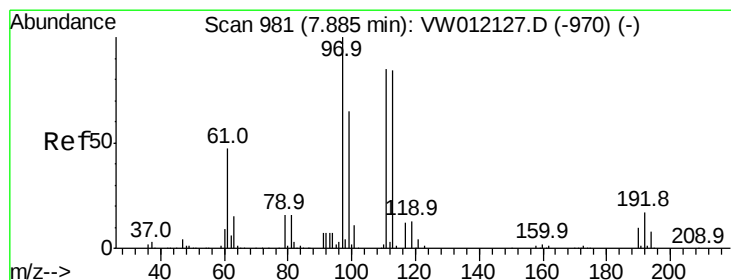
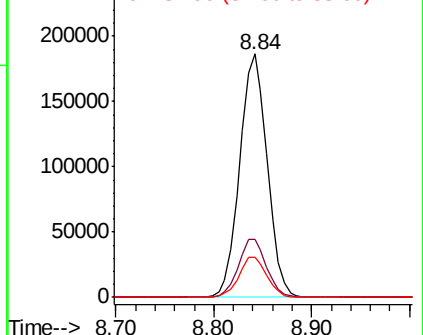
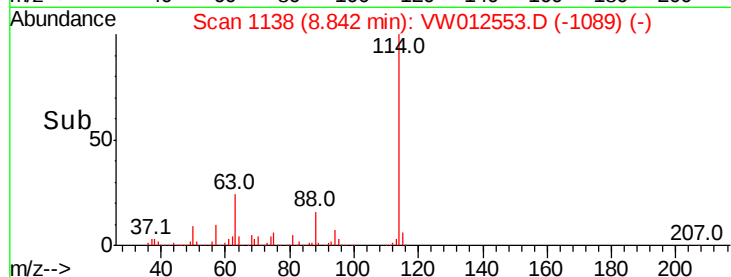
#34
1,4-Difluorobenzene
Concen: 50.000 ug/l
RT: 8.84 min Scan# 1138
Delta R.T. -0.00 min
Lab File: VW012553.D
Acq: 03 Sep 2019 18:04

Instrument :
MSVOA_W
ClientSampleId :

Tot Ion:114 Resp: 363331
Ion Ratio Lower Upper
114 100
63 23.7 0.0 48.6
88 16.3 0.0 32.2

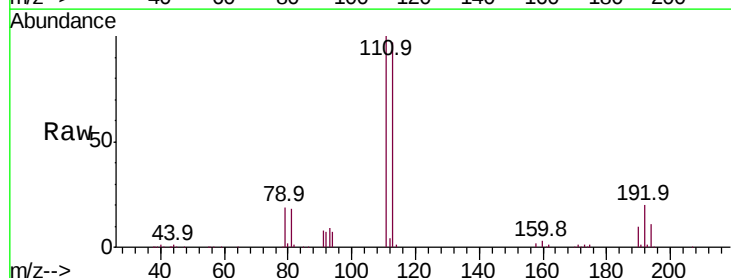


Abundance Ion 113.90 (113.60 to 114.60): V
Ion 63.00 (62.70 to 63.70): VW
Ion 87.90 (87.60 to 88.60): VW

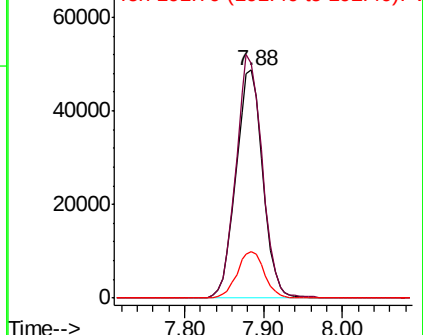
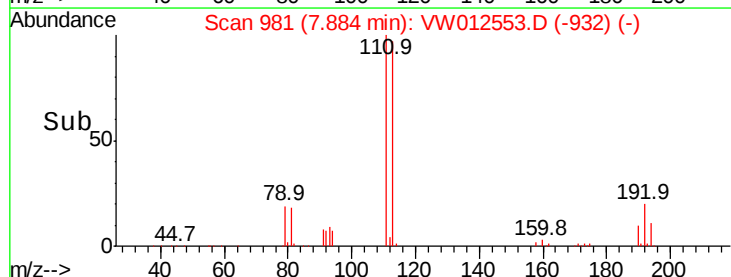


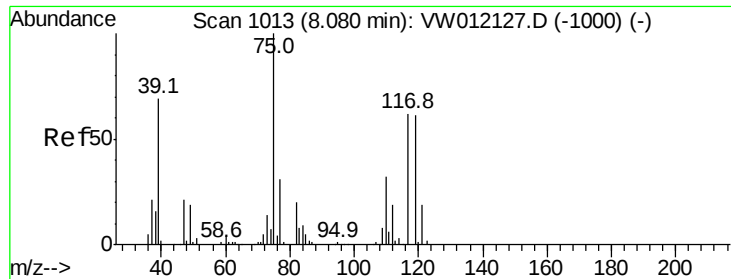
#35
Dibromofluoromethane
Concen: 53.113 ug/l
RT: 7.88 min Scan# 981
Delta R.T. -0.00 min
Lab File: VW012553.D
Acq: 03 Sep 2019 18:04

Tgt Ion:113 Resp: 115188
Ion Ratio Lower Upper
113 100
111 104.8 82.7 124.1
192 20.8 16.2 24.2



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: 5.052 ug/l

RT: 7.95 min Scan# 991

Delta R.T. -0.13 min

Lab File: VW012553.D

Acq: 03 Sep 2019 18:04

Instrument :
MSVOA_W
ClientSampled :

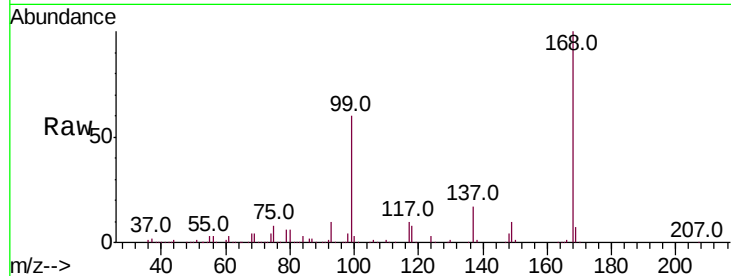
Tot Ion: 75 Resp: 18970

Ion Ratio Lower Upper

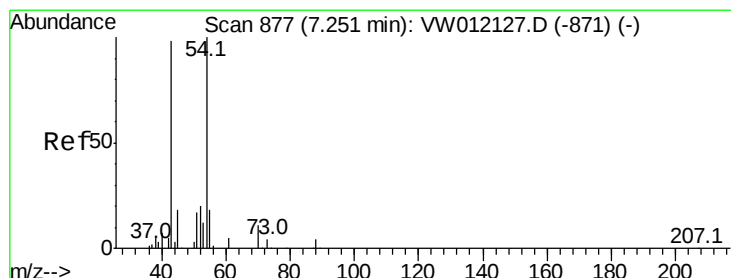
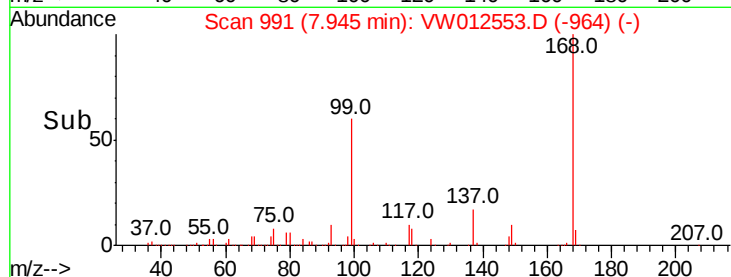
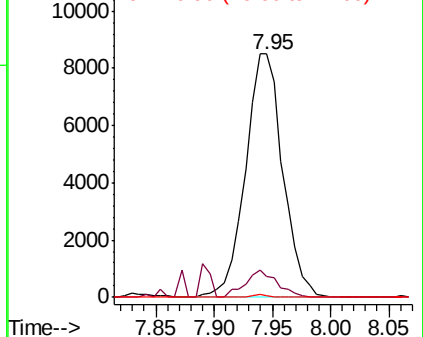
75 100

110 9.6 15.6 46.8#

77 0.5 24.6 36.8#



Abundance Ion 74.90 (74.60 to 75.60): VW
Ion 109.90 (109.60 to 110.60): VW
Ion 76.90 (76.60 to 77.60): VW



#37

Ethyl Acetate

Concen: 16.757 ug/l

RT: 7.18 min Scan# 865

Delta R.T. -0.07 min

Lab File: VW012553.D

Acq: 03 Sep 2019 18:04

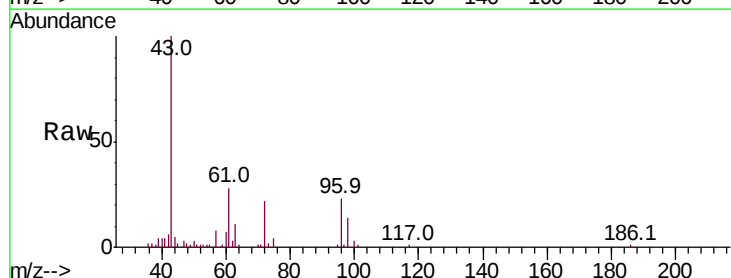
Tgt Ion: 43 Resp: 34476

Ion Ratio Lower Upper

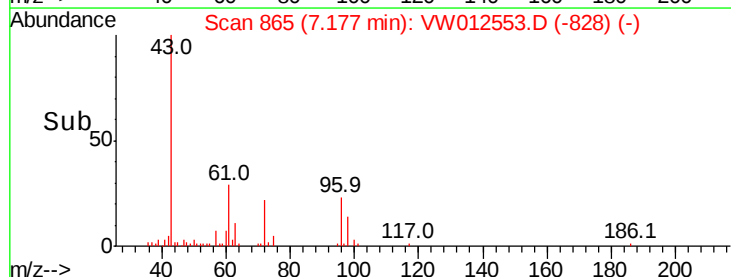
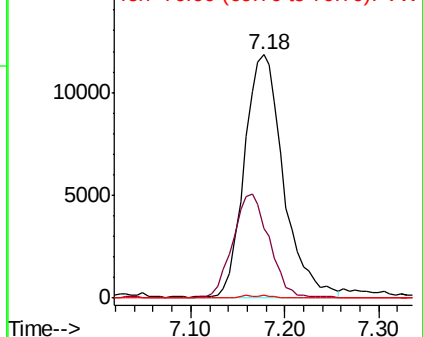
43 100

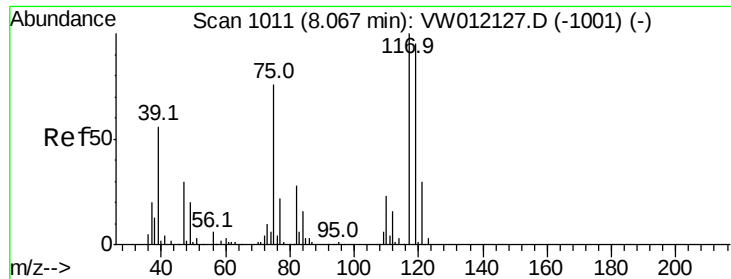
61 0.0 9.2 13.8#

70 0.3 6.9 10.3#



Abundance Ion 43.00 (42.70 to 43.70): VW
Ion 60.90 (60.60 to 61.60): VW
Ion 70.00 (69.70 to 70.70): VW





#38

Carbon Tetrachloride

Concen: 7.171 ug/l

RT: 7.95 min Scan# 991

Delta R.T. -0.12 min

Lab File: VW012553.D

Acq: 03 Sep 2019 18:04

Instrument :

MSVOA_W

ClientSampleId :

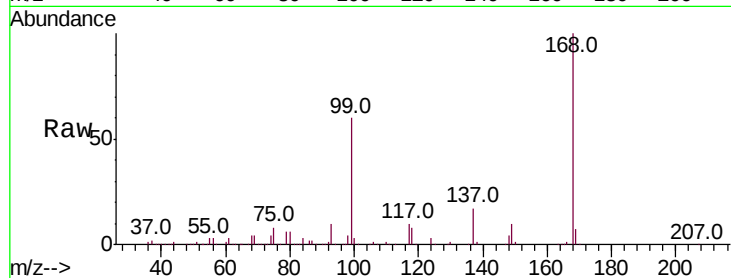
Tot Ion:117 Resp: 23305

Ion Ratio Lower Upper

117 100

119 4.4 76.2 114.2#

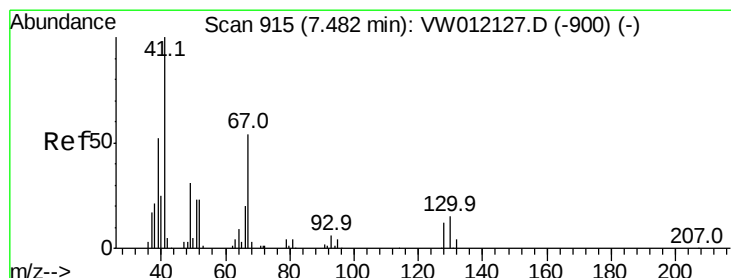
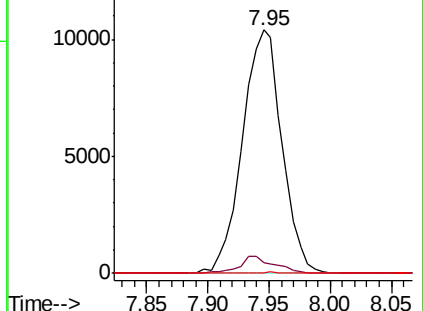
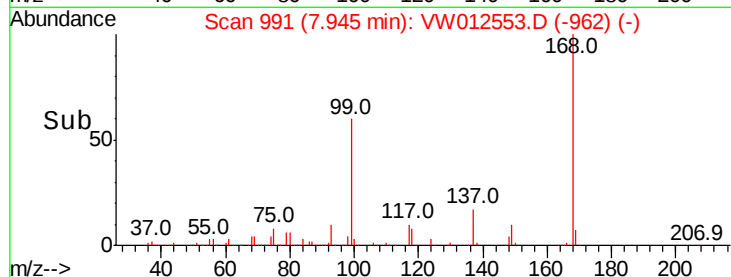
121 0.0 23.8 35.8#



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



#41

Methacrylonitrile

Concen: 3.128 ug/l

RT: 7.53 min Scan# 923

Delta R.T. 0.05 min

Lab File: VW012553.D

Acq: 03 Sep 2019 18:04

Tgt Ion: 41 Resp: 3782

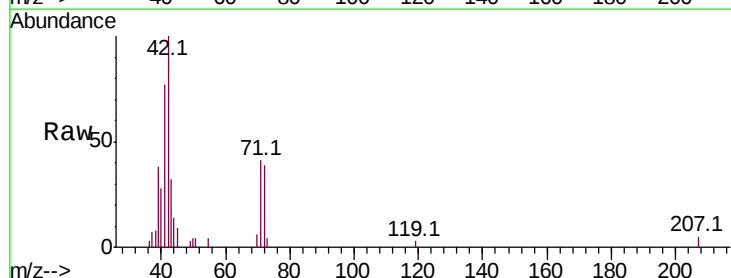
Ion Ratio Lower Upper

41 100

39 52.7 45.8 68.8

67 0.0 46.2 69.4#

52 2.0 21.0 31.6#

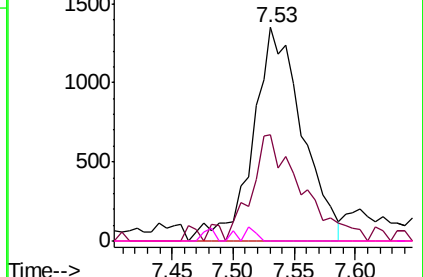
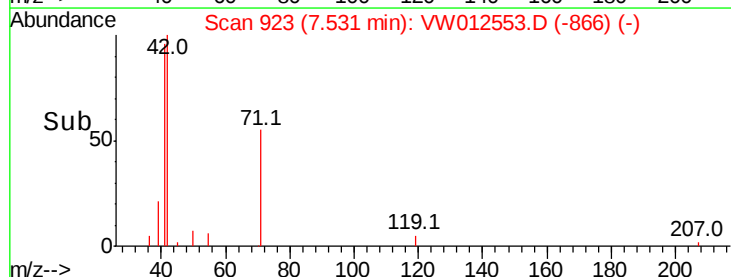


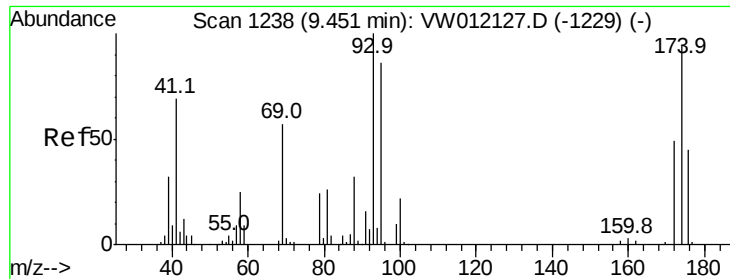
Abundance Ion 41.00 (40.70 to 41.70): VV

Ion 39.00 (38.70 to 39.70): VV

Ion 67.00 (66.70 to 67.70): VV

Ion 52.00 (51.70 to 52.70): VV





#49

1,4-Dioxane

Concen: 1.437 ug/l

RT: 9.68 min Scan# 1275

Delta R.T. 0.23 min

Lab File: VW012553.D

Acq: 03 Sep 2019 18:04

Instrument :
MSVOA_W
ClientSampled :

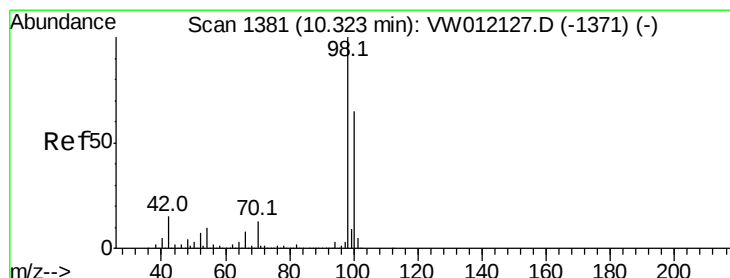
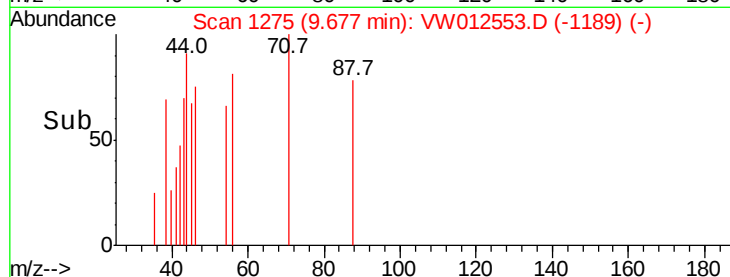
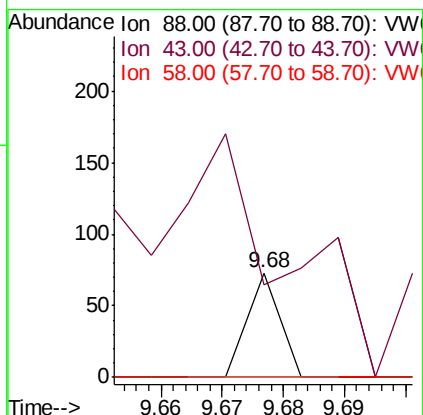
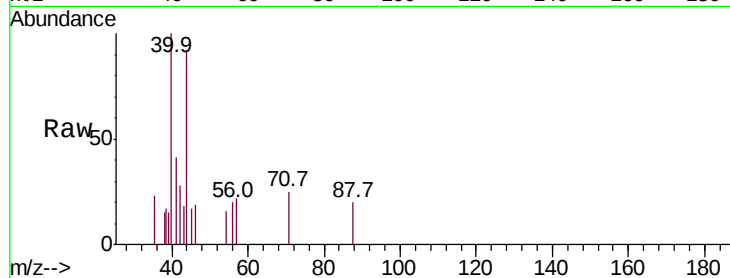
Tot Ion: 88 Resp: 27

Ion Ratio Lower Upper

88 100

43 718.5 32.9 49.3#

58 0.0 71.0 106.4#



#50

Toluene-d8

Concen: 48.377 ug/l

RT: 10.32 min Scan# 1381

Delta R.T. -0.00 min

Lab File: VW012553.D

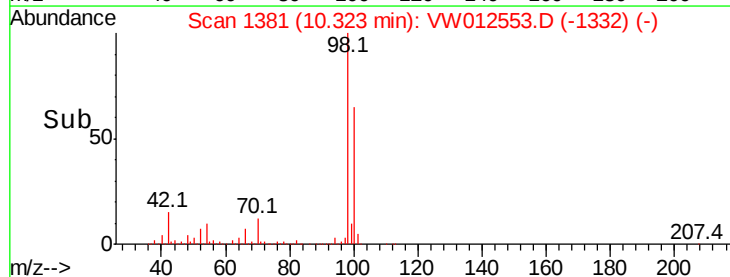
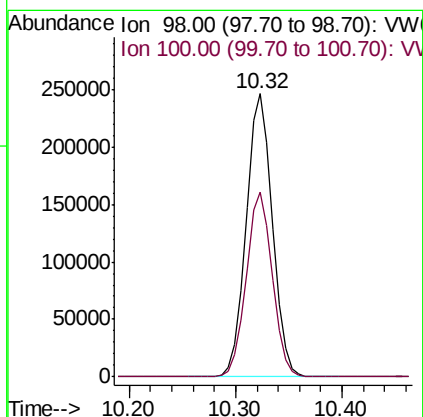
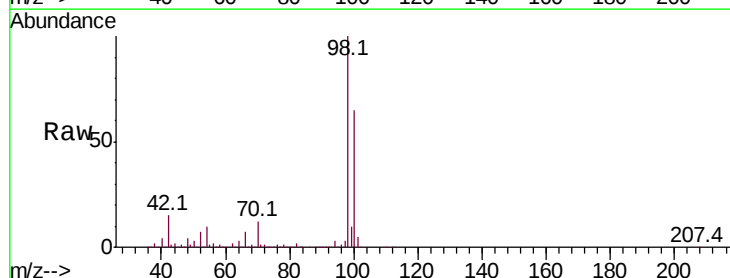
Acq: 03 Sep 2019 18:04

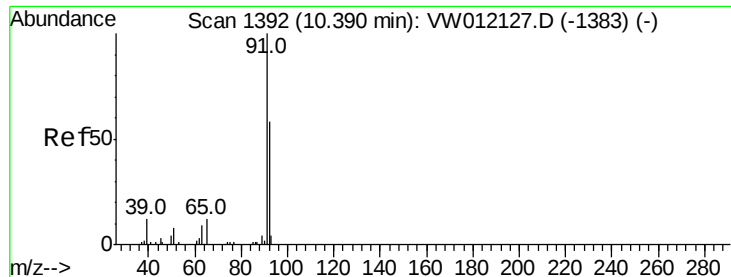
Tgt Ion: 98 Resp: 425406

Ion Ratio Lower Upper

98 100

100 64.9 52.4 78.6





#52

Toluene

Concen: 2.441 ug/l

RT: 10.38 min Scan# 1391

Delta R.T. -0.01 min

Lab File: VW012553.D

Acq: 03 Sep 2019 18:04

Instrument :

MSVOA_W

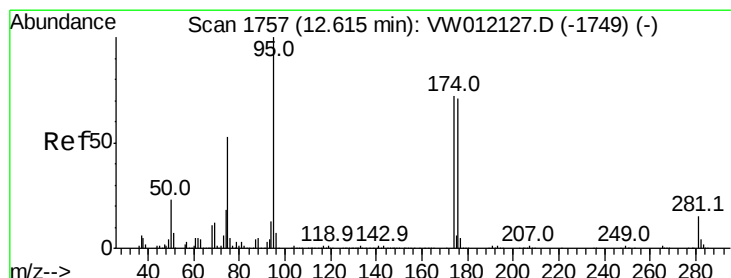
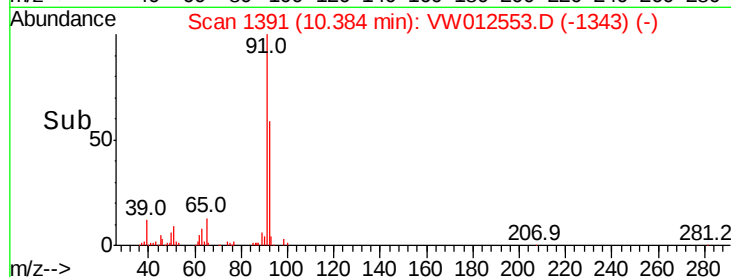
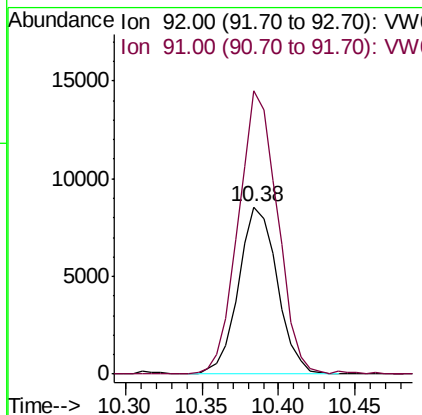
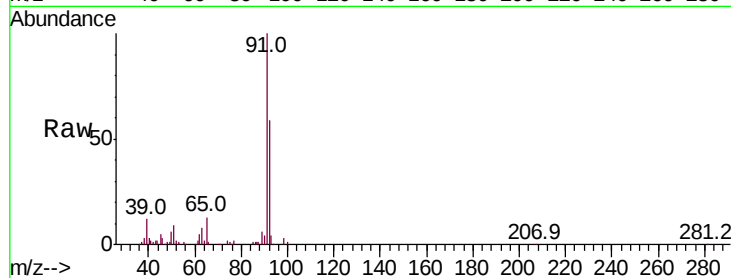
ClientSampleId :

Tot Ion: 92 Resp: 15035

Ion Ratio Lower Upper

92 100

91 171.1 136.6 204.8



#62

4-Bromofluorobenzene

Concen: 27.902 ug/l

RT: 12.62 min Scan# 1757

Delta R.T. -0.00 min

Lab File: VW012553.D

Acq: 03 Sep 2019 18:04

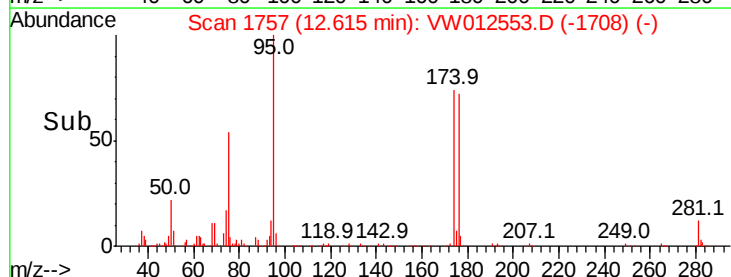
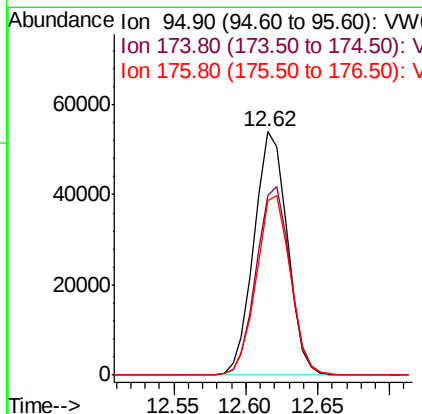
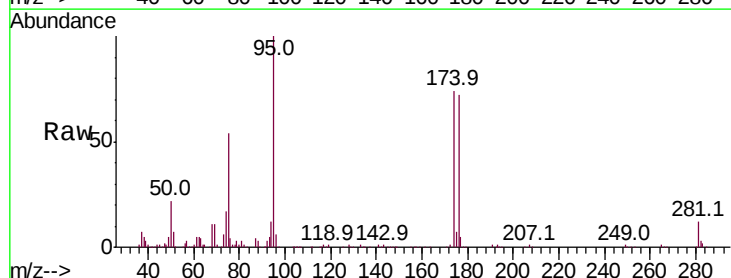
Tgt Ion: 95 Resp: 86490

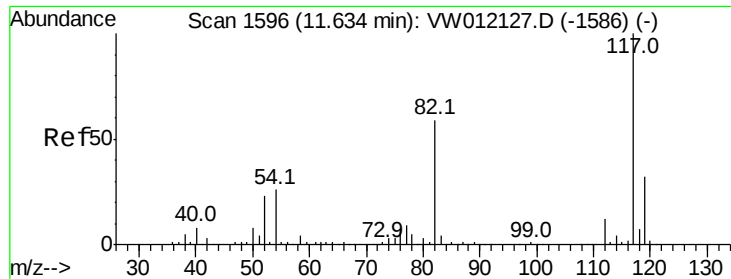
Ion Ratio Lower Upper

95 100

174 78.7 0.0 150.8

176 75.3 0.0 148.6

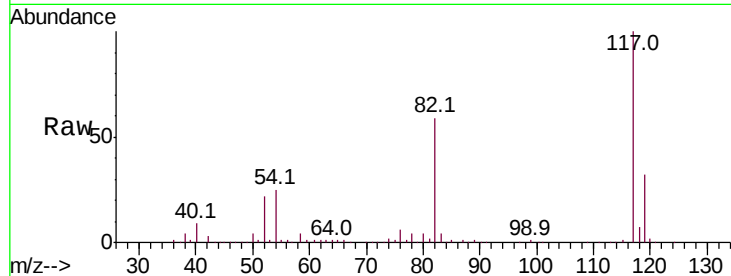




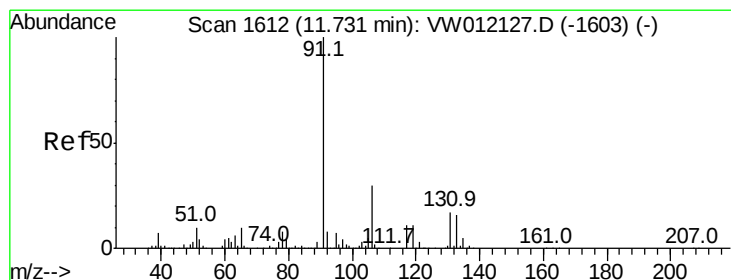
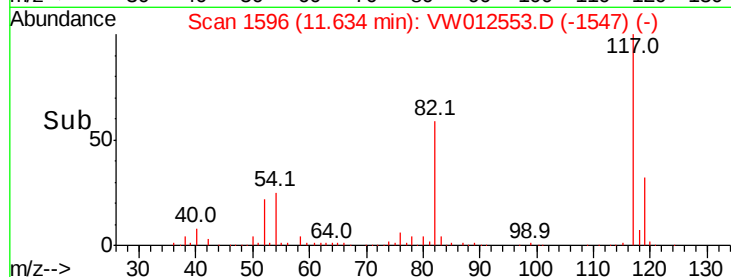
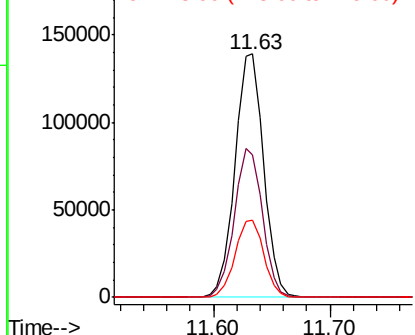
#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.63 min Scan# 1596
Delta R.T. -0.00 min
Lab File: VW012553.D
Acq: 03 Sep 2019 18:04

Instrument :
MSVOA_W
ClientSampleId :

Tot Ion:117 Resp: 239034
Ion Ratio Lower Upper
117 100
82 58.6 47.4 71.2
119 31.6 25.4 38.2

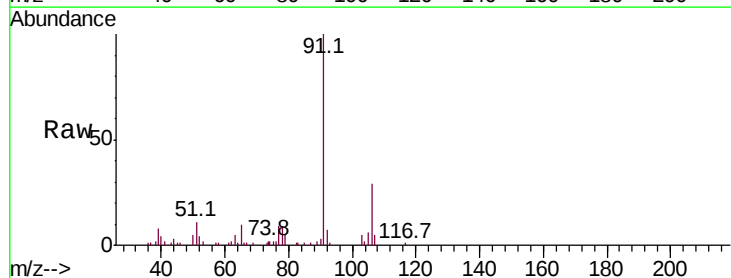


Abundance Ion 116.90 (116.60 to 117.60): V
Ion 82.00 (81.70 to 82.70): VW
Ion 118.90 (118.60 to 119.60): V

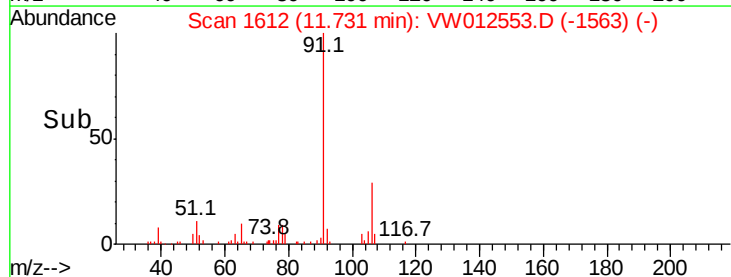
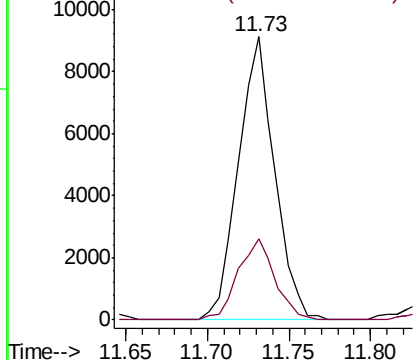


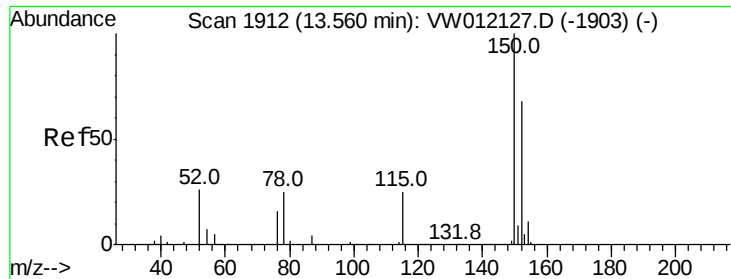
#67
Ethyl Benzene
Concen: 1.561 ug/l
RT: 11.73 min Scan# 1612
Delta R.T. -0.00 min
Lab File: VW012553.D
Acq: 03 Sep 2019 18:04

Tgt Ion: 91 Resp: 14149
Ion Ratio Lower Upper
91 100
106 28.7 24.3 36.5



Abundance Ion 91.00 (90.70 to 91.70): VW
Ion 106.00 (105.70 to 106.70): 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: VW012553.D

Acq: 03 Sep 2019 18:04

Instrument :

MSVOA_W

ClientSampleId :

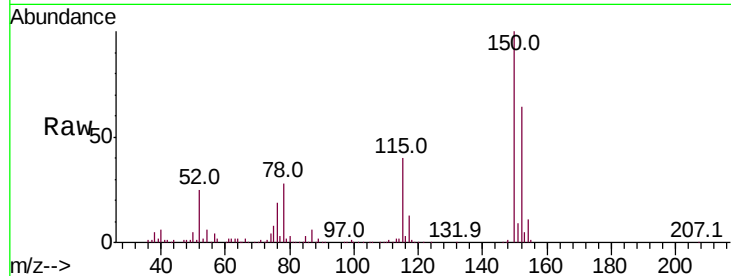
Tot Ion:152 Resp: 57281

Ion Ratio Lower Upper

152 100

115 59.4 30.1 90.3

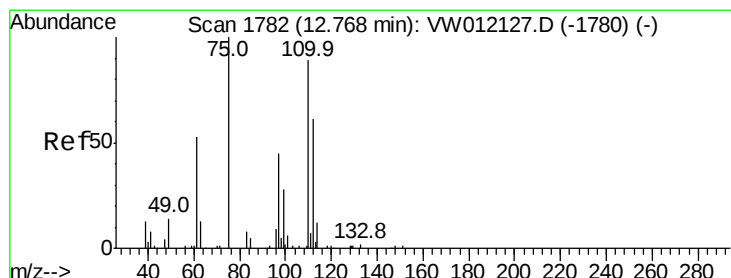
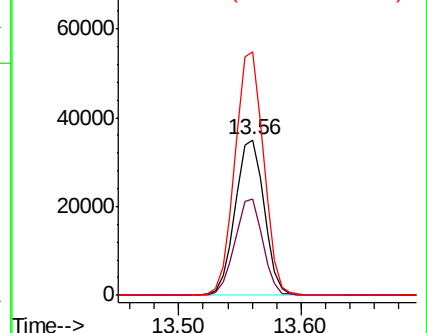
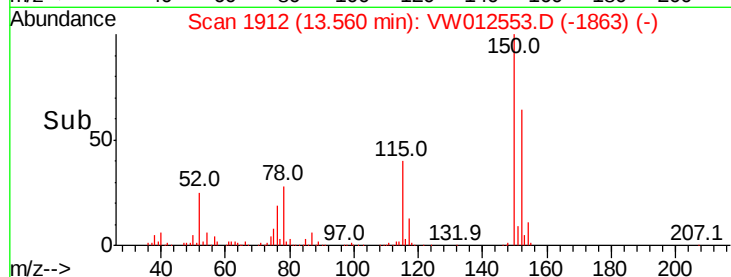
150 154.9 0.0 345.8



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: 84.711 ug/l

RT: 12.62 min Scan# 1757

Delta R.T. -0.15 min

Lab File: VW012553.D

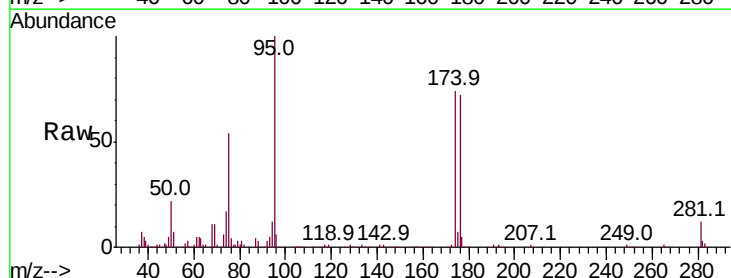
Acq: 03 Sep 2019 18:04

Tgt Ion: 75 Resp: 47258

Ion Ratio Lower Upper

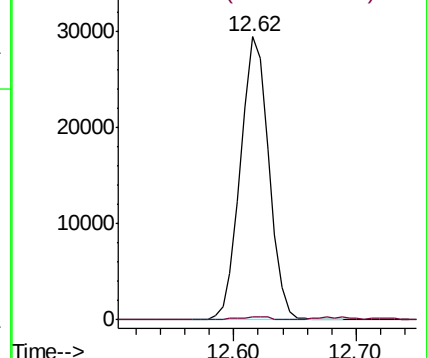
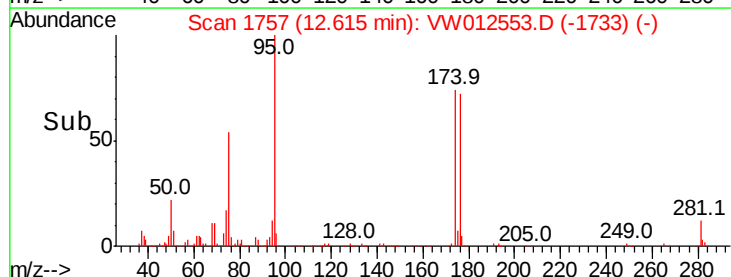
75 100

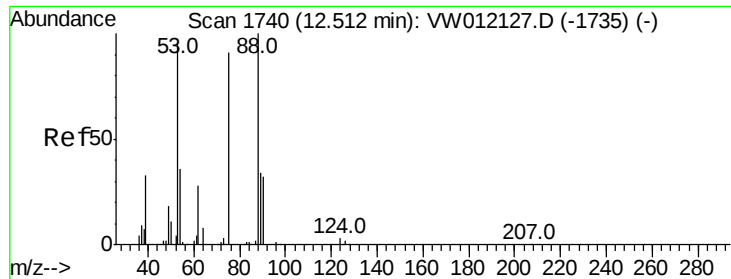
77 1.2 0.0 0.0#



Abundance Ion 74.90 (74.60 to 75.60): VW

Ion 77.00 (76.70 to 77.70): VW

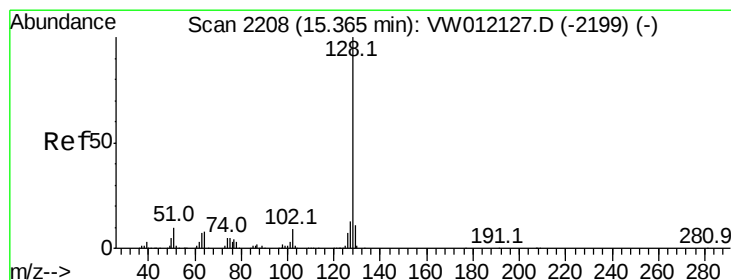
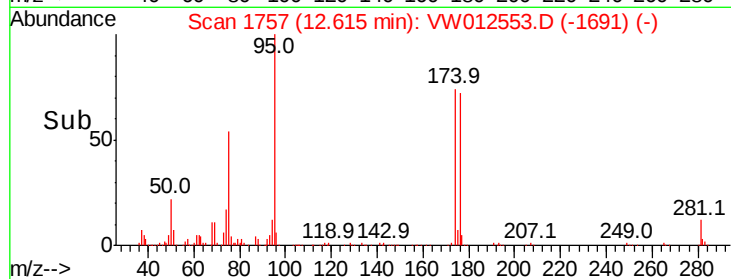
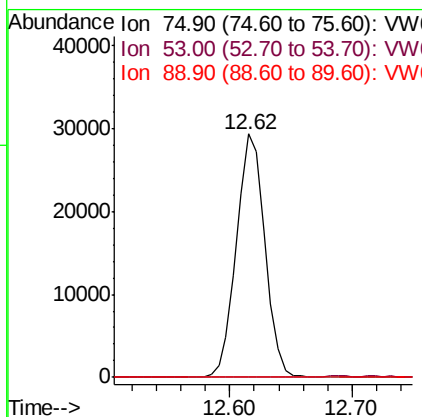
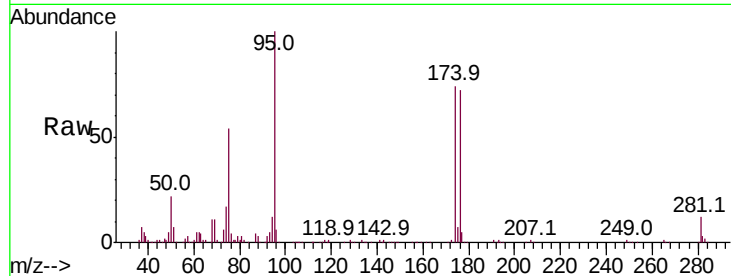




#81
trans-1,4-Dichloro-2-butene
Concen: 185.731 ug/l
RT: 12.62 min Scan# 1757
Delta R.T. 0.10 min
Lab File: VW012553.D
Acq: 03 Sep 2019 18:04

Instrument :
MSVOA_W
ClientSampleId :

Tot Ion: 75 Resp: 47258
Ion Ratio Lower Upper
75 100
53 0.1 89.4 134.0#
89 0.3 34.5 51.7#



#95
Naphthalene
Concen: 4.431 ug/l
RT: 15.36 min Scan# 2208
Delta R.T. 0.00 min
Lab File: VW012553.D
Acq: 03 Sep 2019 18:04

Tgt Ion: 128 Resp: 261
Ion Ratio Lower Upper
128 100
127 0.0 10.7 16.1#
129 0.0 8.7 13.1#

