

Data Path : Z:\VOASRV\HPCHEM1\MSVOA W\DATA\VW060519\
 Data File : VW010698.D
 Acq On : 05 Jun 2019 17:55
 Operator : SY/VA
 Sample : K3182-03
 Misc : 5.03G/5ML/MSVOA W/SOIL
 ALS Vial : 18 Sample Multiplier: 1

Instrument :
 MSVOA_W
 ClientSampleId :
 B-05-1.0-1.5

Quant Time: Jun 06 07:30:10 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_W\METHOD\82W060419S.M
 Quant Title : SW846 8260
 QLast Update : Wed Jun 05 03:21:19 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	7.97	168	517	50.00	ug/l	0.02
34) 1,4-Difluorobenzene	8.86	114	736	50.00	ug/l	0.02
63) Chlorobenzene-d5	11.65	117	318	50.00	ug/l	0.01
72) 1,4-Dichlorobenzene-d4	13.57	152	78	50.00	ug/l	0.01

System Monitoring Compounds	R.T.	QIon	Response	Conc	Units	Dev(Min)
33) 1,2-Dichloroethane-d4	8.31	65	450	73.85	ug/l	0.00
Spiked Amount						
			Recovery	=	147.70%	
35) Dibromofluoromethane	7.90	113	317	79.35	ug/l	0.01
Spiked Amount						
			Recovery	=	158.70%	
50) Toluene-d8	10.33	98	681	38.87	ug/l	0.00
Spiked Amount						
			Recovery	=	77.74%	
62) 4-Bromofluorobenzene	12.63	95	217	34.04	ug/l	0.00
Spiked Amount						
			Recovery	=	68.08%	

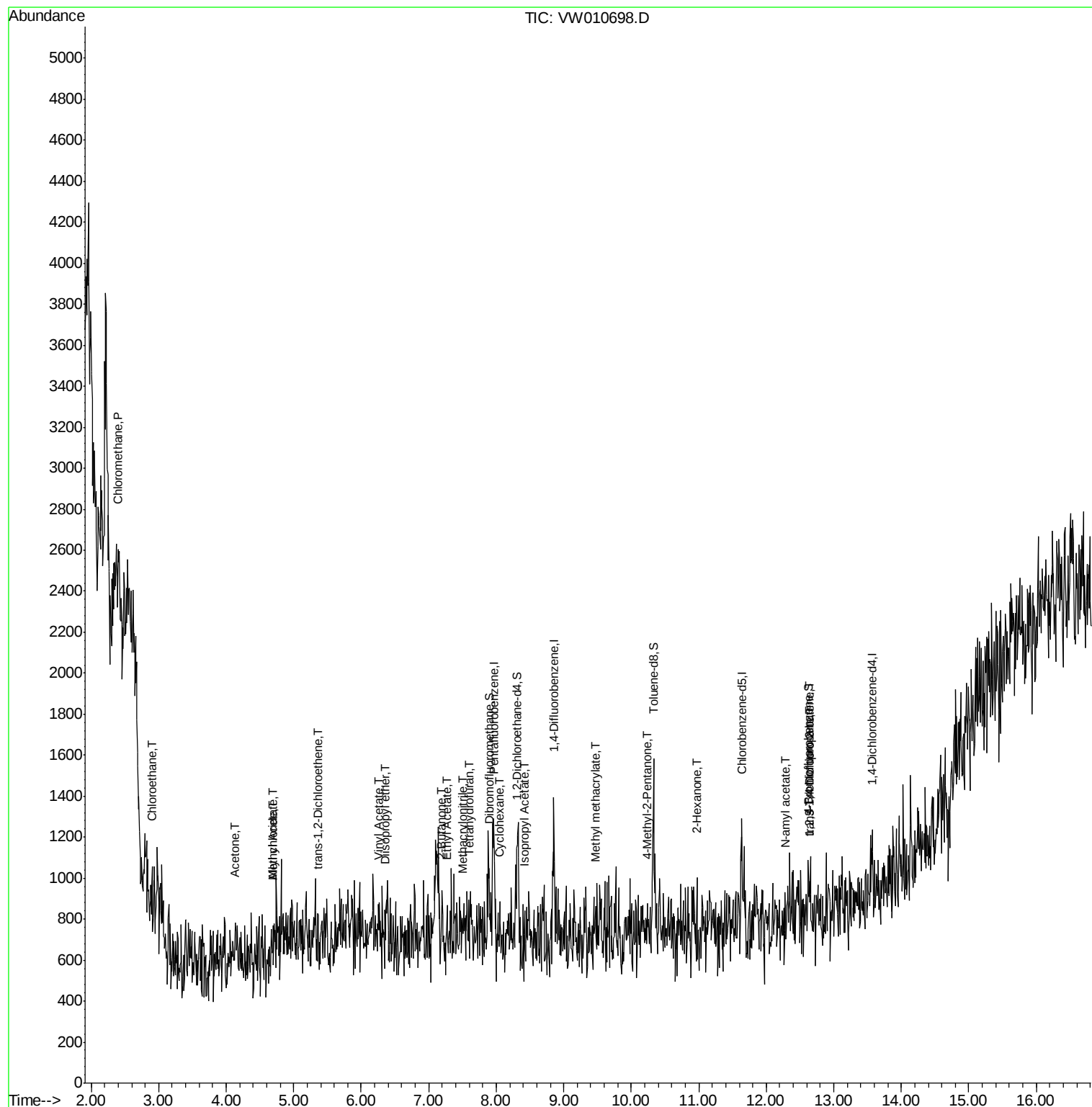
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
3) Chloromethane	2.40	50	20	2.845	ug/l #	43
6) Chloroethane	2.90	64	76	19.496	ug/l #	43
14) Allyl chloride	4.70	41	97	8.799	ug/l #	1
16) Acetone	4.14	43	117	71.656	ug/l #	47
18) Methyl Acetate	4.70	43	21	5.975	ug/l #	55
21) trans-1,2-Dichloroethene	5.36	96	42	7.400	ug/l #	1
22) Diisopropyl ether	6.35	45	24	1.087	ug/l #	38
23) Vinyl Acetate	6.26	43	98	7.358	ug/l #	77
25) 2-Butanone	7.18	43	66	29.151	ug/l #	53
29) Tetrahydrofuran	7.59	42	22	15.448	ug/l #	40
31) Cyclohexane	8.06	56	19	1.545	ug/l #	20
37) Ethyl Acetate	7.28	43	51	12.216	ug/l #	72
41) Methacrylonitrile	7.50	41	40	16.119	ug/l #	1
43) Isopropyl Acetate	8.42	43	40	4.959	ug/l #	55
48) Methyl methacrylate	9.47	41	141	36.259	ug/l #	18
51) 4-Methyl-2-Pentanone	10.23	43	80	19.416	ug/l #	39
59) 2-Hexanone	10.98	43	31	10.410	ug/l #	28
74) N-amyl acetate	12.28	43	48	25.339	ug/l #	47
76) 1,2,3-Trichloropropane	12.63	75	21	25.638	ug/l #	100
81) trans-1,4-Dichloro-2-buten	12.63	75	21	58.924	ug/l #	5

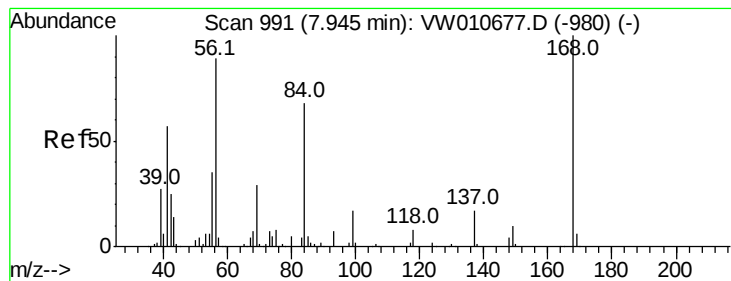
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 7.97 min Scan# 995

Delta R.T. 0.02 min

Lab File: VW010698.D

Acq: 05 Jun 2019 17:55

Instrument :

MSVOA_W

ClientSampled :

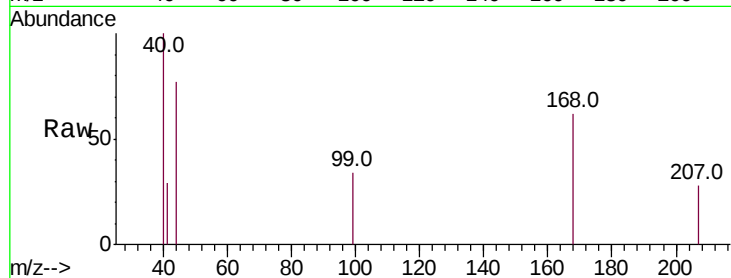
B-05-1.0-1.5

Tot Ion:168 Resp: 517

Ion Ratio Lower Upper

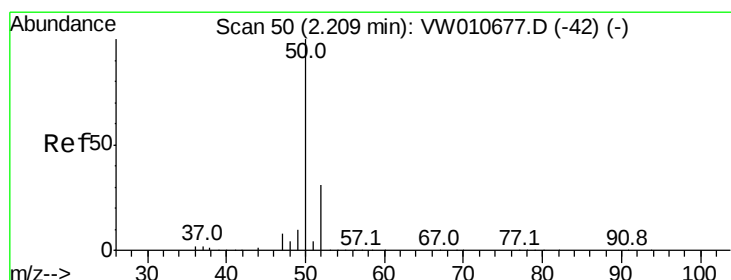
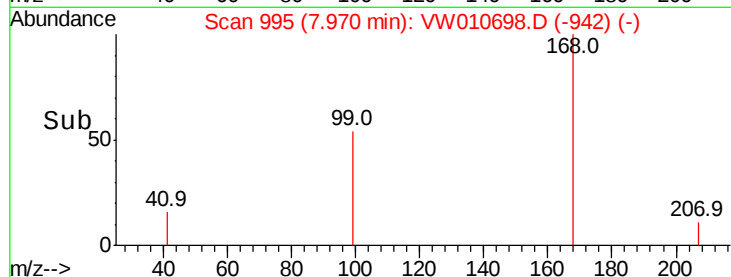
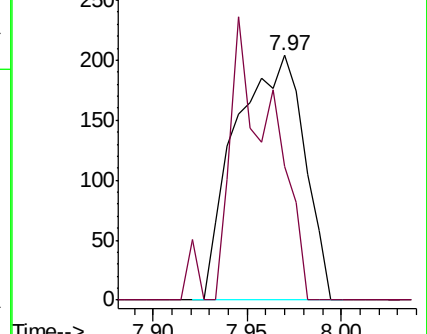
168 100

99 54.4 47.7 71.5



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VW



#3

Chloromethane

Concen: 2.845 ug/l

RT: 2.40 min Scan# 81

Delta R.T. 0.19 min

Lab File: VW010698.D

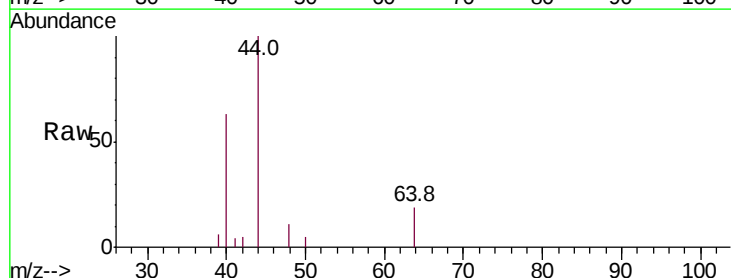
Acq: 05 Jun 2019 17:55

Tgt Ion: 50 Resp: 20

Ion Ratio Lower Upper

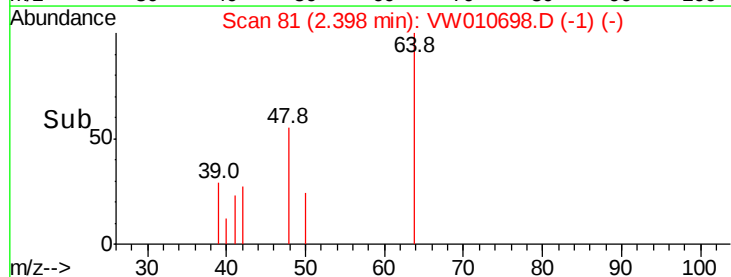
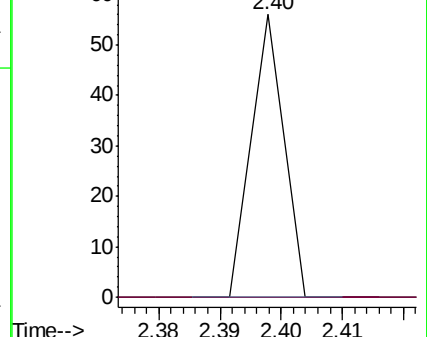
50 100

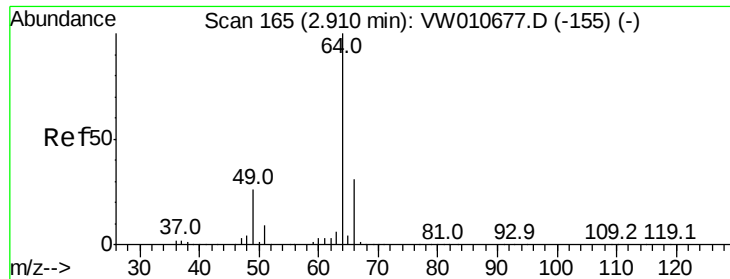
52 0.0 25.2 37.8#



Abundance Ion 49.90 (49.60 to 50.60): VW

Ion 51.90 (51.60 to 52.60): VW





#6

Chloroethane

Concen: 19.496 ug/l

RT: 2.90 min Scan# 163

Delta R.T. -0.01 min

Lab File: VW010698.D

Acq: 05 Jun 2019 17:55

Instrument :

MSVOA_W

ClientSampled :

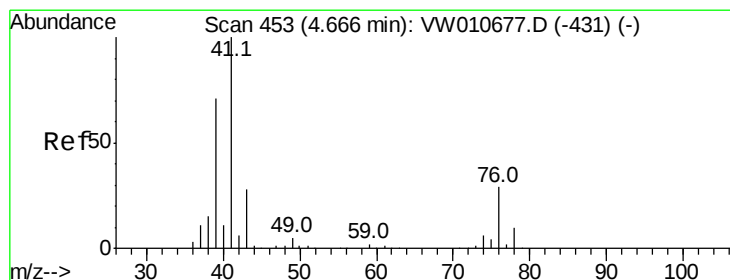
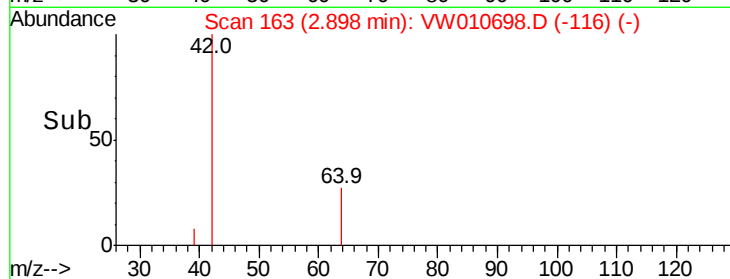
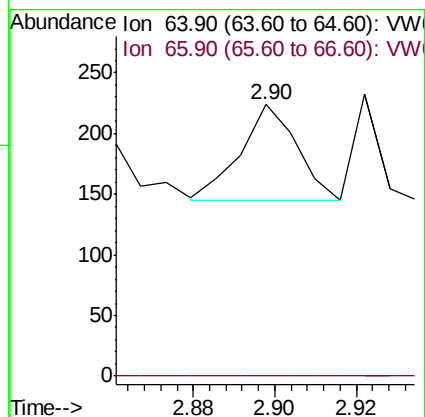
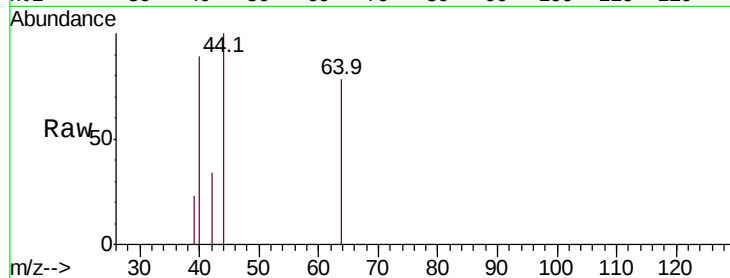
B-05-1.0-1.5

Tot Ion: 64 Resp: 76

Ion Ratio Lower Upper

64 100

66 0.0 25.1 37.7#



#14

Allyl chloride

Concen: 8.799 ug/l

RT: 4.70 min Scan# 458

Delta R.T. 0.03 min

Lab File: VW010698.D

Acq: 05 Jun 2019 17:55

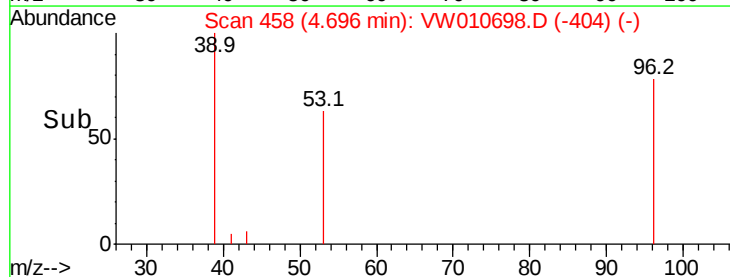
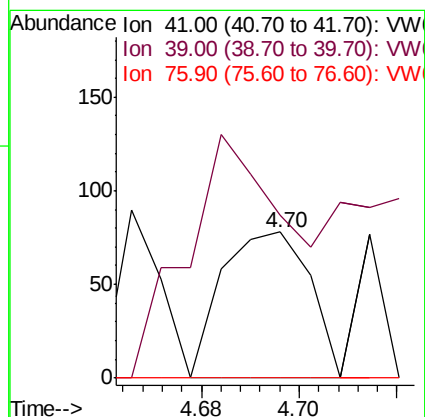
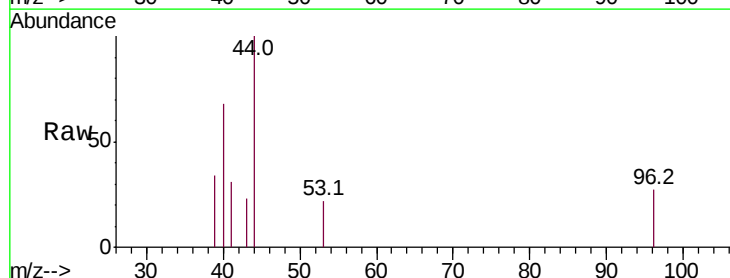
Tgt Ion: 41 Resp: 97

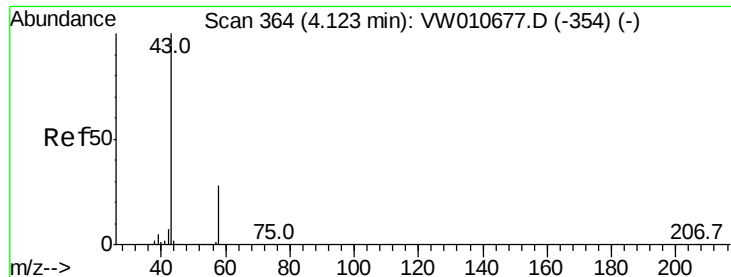
Ion Ratio Lower Upper

41 100

39 193.8 55.8 83.6#

76 0.0 22.7 34.1#





#16

Acetone

Concen: 71.656 ug/l

RT: 4.14 min Scan# 366

Delta R.T. 0.01 min

Lab File: VW010698.D

Acq: 05 Jun 2019 17:55

Instrument :

MSVOA_W

ClientSampleId :

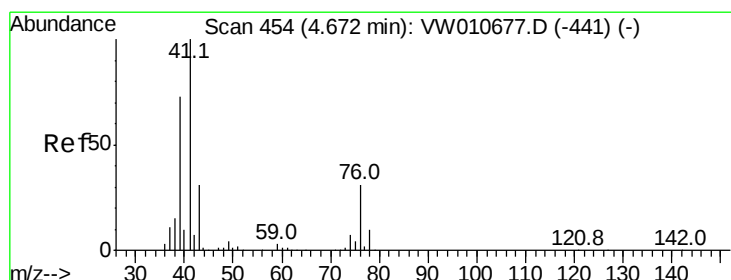
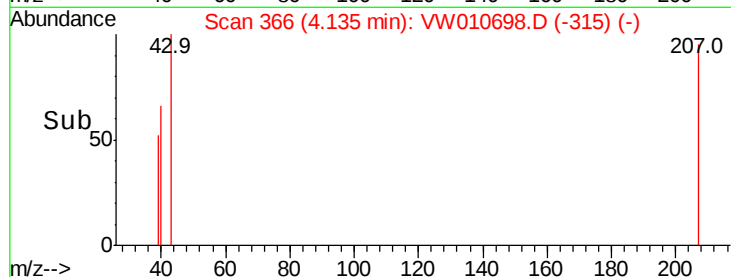
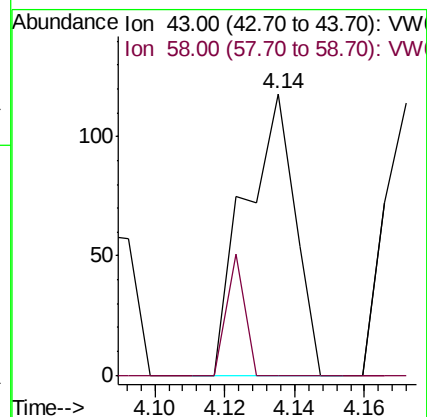
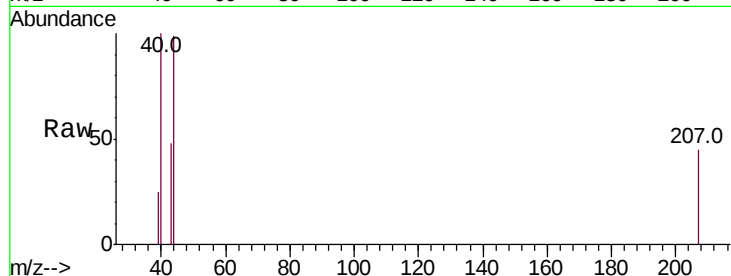
B-05-1.0-1.5

Tot Ion: 43 Resp: 117

Ion Ratio Lower Upper

43 100

58 0.0 22.1 33.1#



#18

Methyl Acetate

Concen: 5.975 ug/l

RT: 4.70 min Scan# 458

Delta R.T. 0.02 min

Lab File: VW010698.D

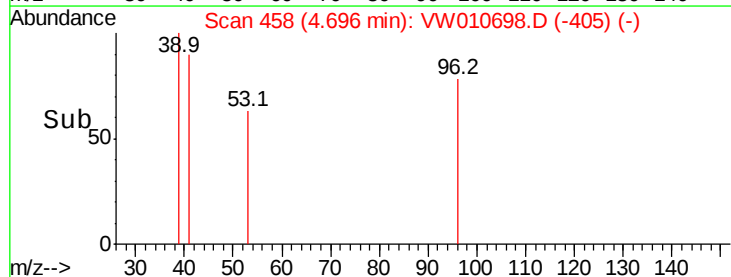
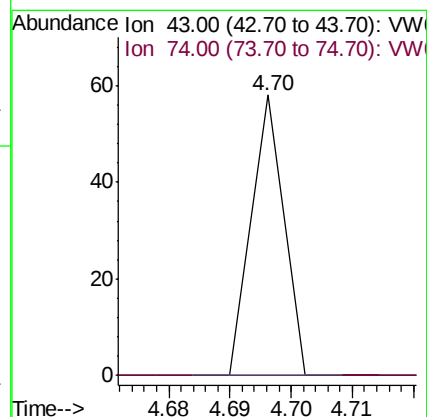
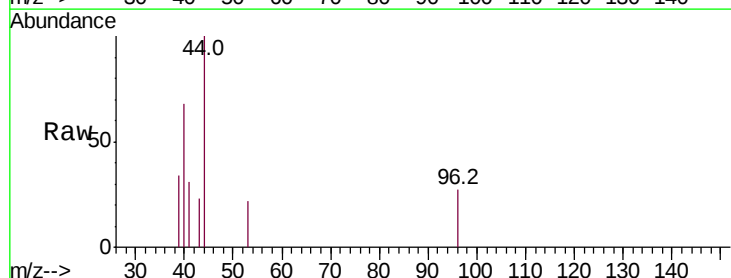
Acq: 05 Jun 2019 17:55

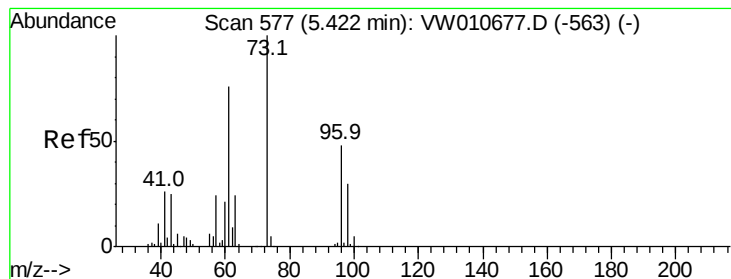
Tgt Ion: 43 Resp: 21

Ion Ratio Lower Upper

43 100

74 0.0 16.7 25.1#





#21

trans-1,2-Dichloroethene

Concen: 7.400 ug/l

RT: 5.36 min Scan# 567

Delta R.T. -0.06 min

Lab File: VW010698.D

Acq: 05 Jun 2019 17:55

Instrument :

MSVOA_W

ClientSampleId :

B-05-1.0-1.5

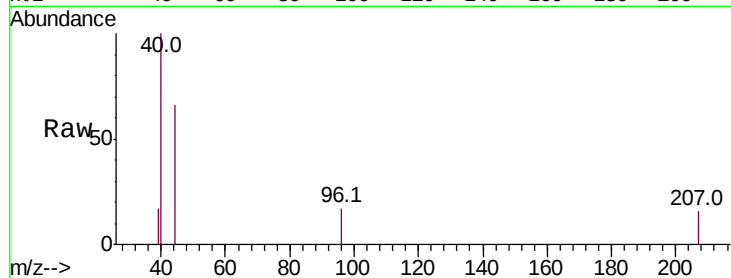
Tot Ion: 96 Resp: 42

Ion Ratio Lower Upper

96 100

61 0.0 126.0 189.0#

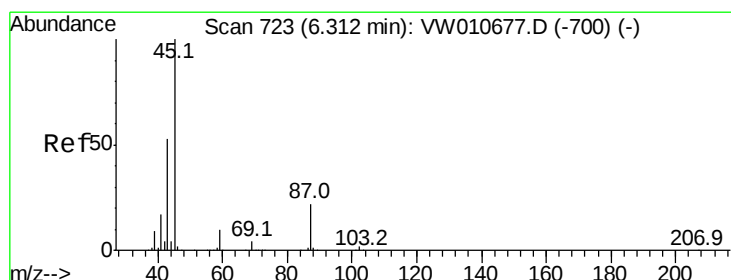
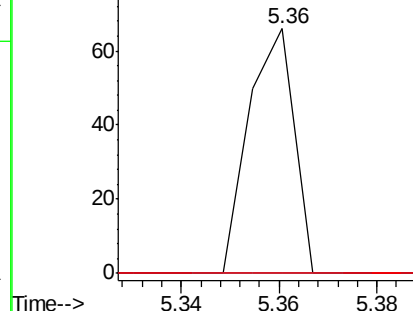
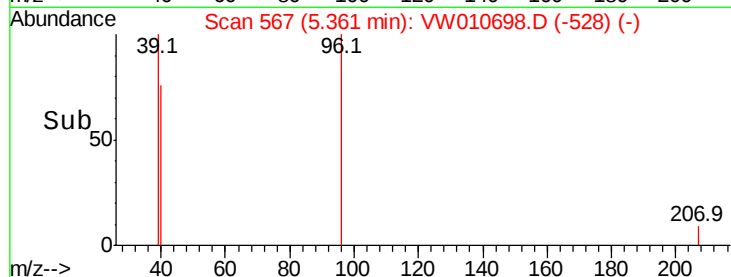
98 0.0 49.6 74.4#



Abundance Ion 95.90 (95.60 to 96.60): VW

Ion 60.90 (60.60 to 61.60): VW

Ion 97.90 (97.60 to 98.60): VW



#22

Diisopropyl ether

Concen: 1.087 ug/l

RT: 6.35 min Scan# 729

Delta R.T. 0.04 min

Lab File: VW010698.D

Acq: 05 Jun 2019 17:55

Tgt Ion: 45 Resp: 24

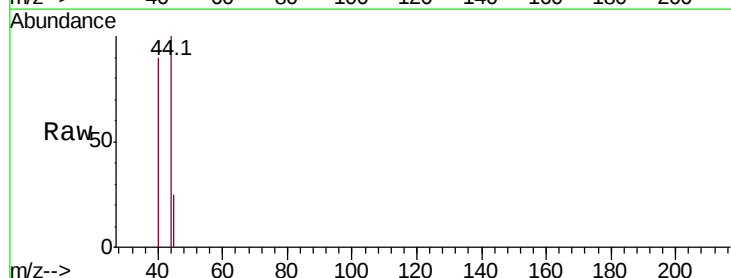
Ion Ratio Lower Upper

45 100

43 0.0 42.5 63.7#

87 0.0 17.4 26.2#

59 0.0 8.1 12.1#

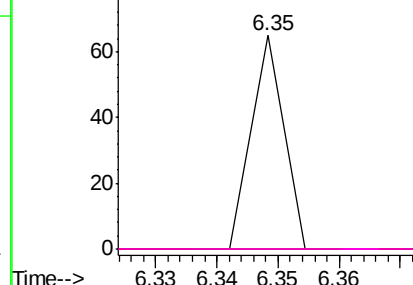
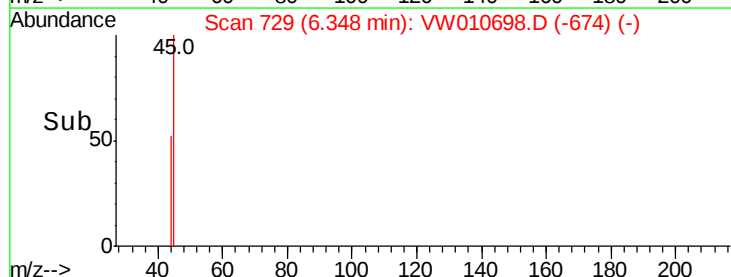


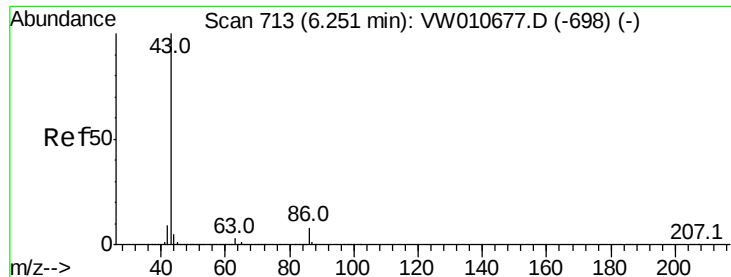
Abundance Ion 45.00 (44.70 to 45.70): VW

Ion 43.00 (42.70 to 43.70): VW

Ion 87.00 (86.70 to 87.70): VW

Ion 59.00 (58.70 to 59.70): VW





#23

Vinyl Acetate

Concen: 7.358 ug/l

RT: 6.26 min Scan# 714

Delta R.T. 0.01 min

Lab File: VW010698.D

Acq: 05 Jun 2019 17:55

Instrument :

MSVOA_W

ClientSampled :

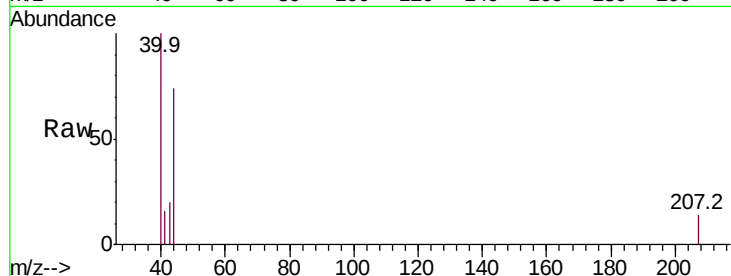
B-05-1.0-1.5

Tot Ion: 43 Resp: 98

Ion Ratio Lower Upper

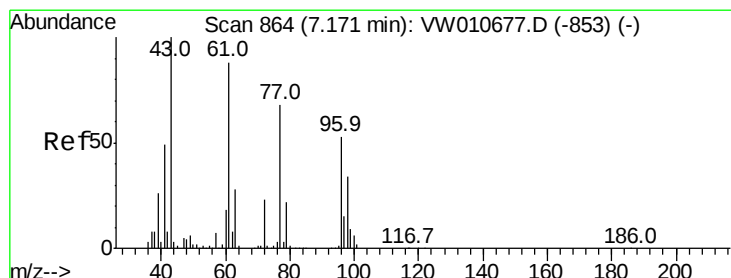
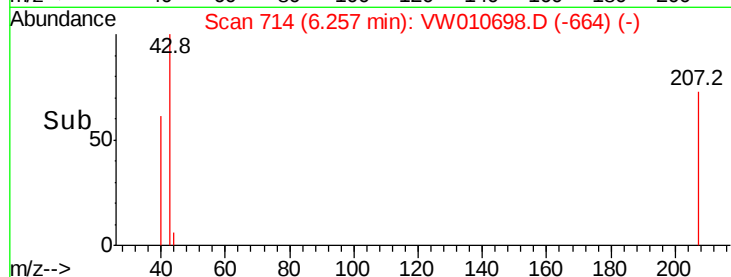
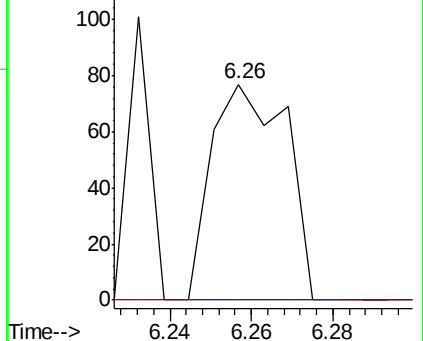
43 100

86 0.0 6.6 10.0#



Abundance Ion 43.00 (42.70 to 43.70): VW

Ion 86.00 (85.70 to 86.70): VW



#25

2-Butanone

Concen: 29.151 ug/l

RT: 7.18 min Scan# 866

Delta R.T. 0.01 min

Lab File: VW010698.D

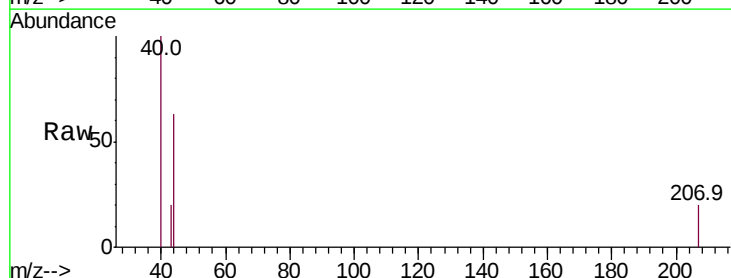
Acq: 05 Jun 2019 17:55

Tgt Ion: 43 Resp: 66

Ion Ratio Lower Upper

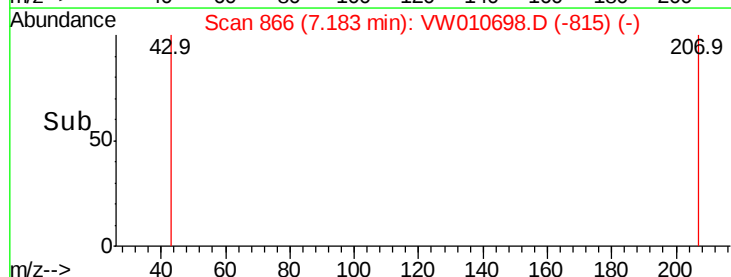
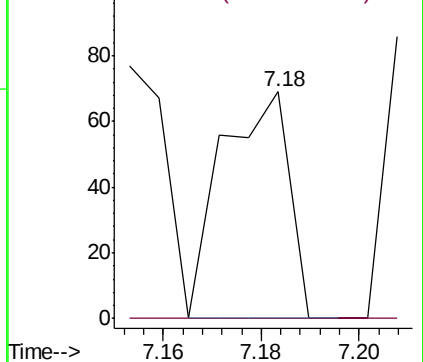
43 100

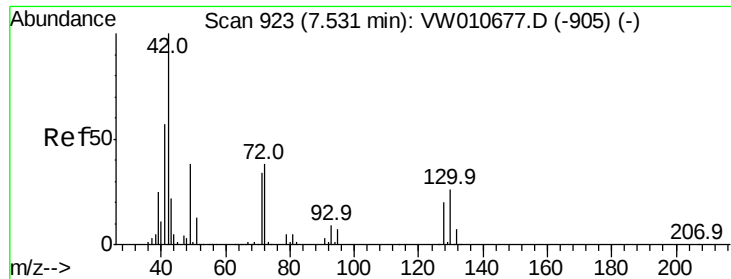
72 0.0 18.1 27.1#



Abundance Ion 43.00 (42.70 to 43.70): VW

Ion 72.00 (71.70 to 72.70): VW





#29

Tetrahydrofuran

Concen: 15.448 ug/l

RT: 7.59 min Scan# 933

Delta R.T. 0.06 min

Lab File: VW010698.D

Acq: 05 Jun 2019 17:55

Instrument :

MSVOA_W

ClientSampleId :

B-05-1.0-1.5

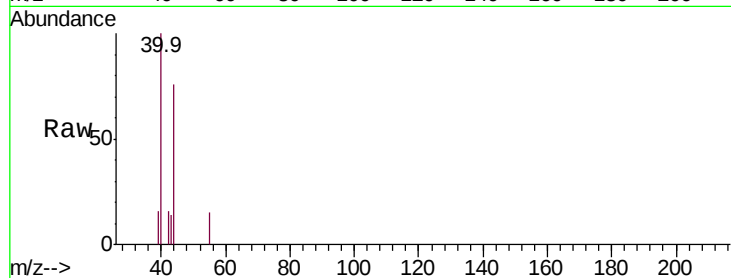
Tot Ion: 42 Resp: 22

Ion Ratio Lower Upper

42 100

72 0.0 28.7 43.1#

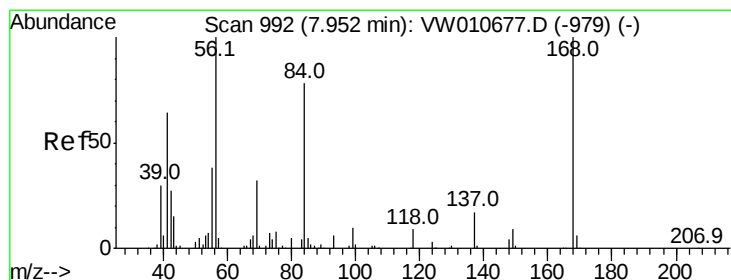
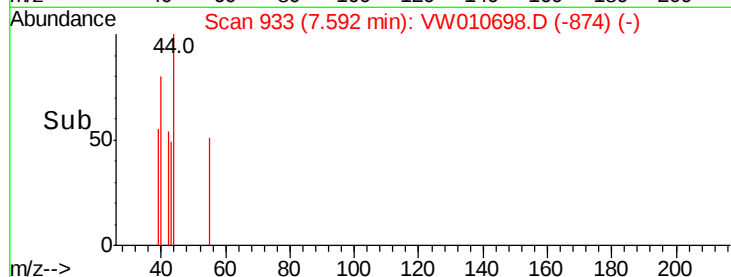
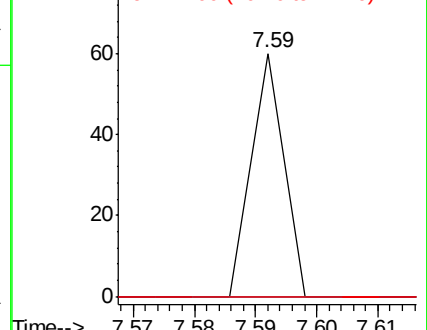
71 0.0 26.6 39.8#



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



#31

Cyclohexane

Concen: 1.545 ug/l

RT: 8.06 min Scan# 1009

Delta R.T. 0.10 min

Lab File: VW010698.D

Acq: 05 Jun 2019 17:55

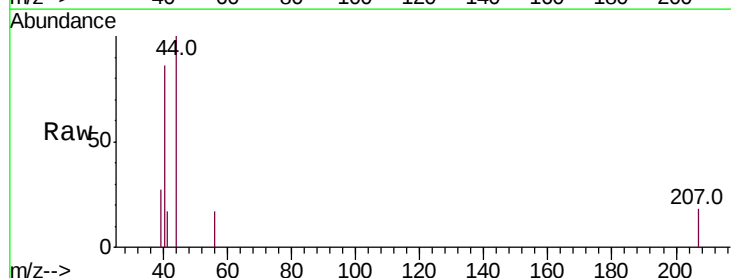
Tgt Ion: 56 Resp: 19

Ion Ratio Lower Upper

56 100

69 0.0 25.2 37.8#

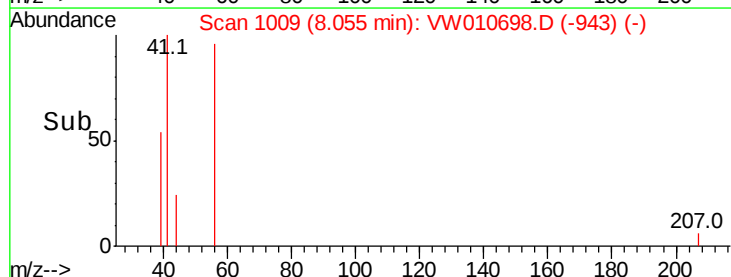
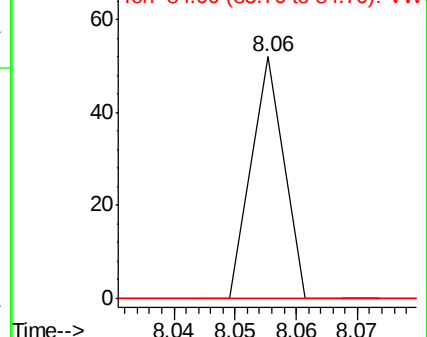
84 0.0 62.2 93.2#

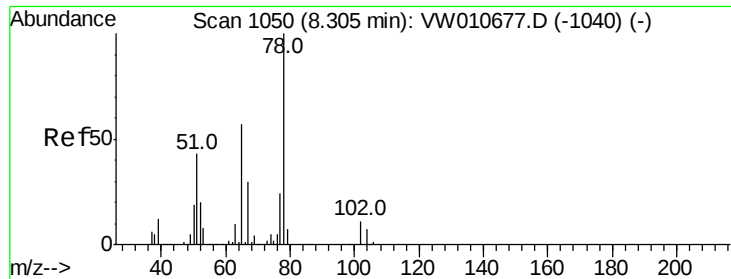


Abundance Ion 56.00 (55.70 to 56.70): VW

Ion 69.00 (68.70 to 69.70): VW

Ion 84.00 (83.70 to 84.70): VW

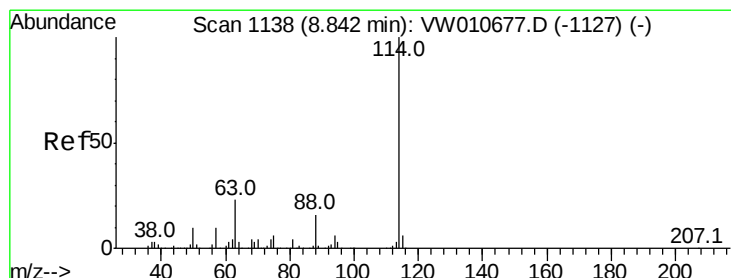
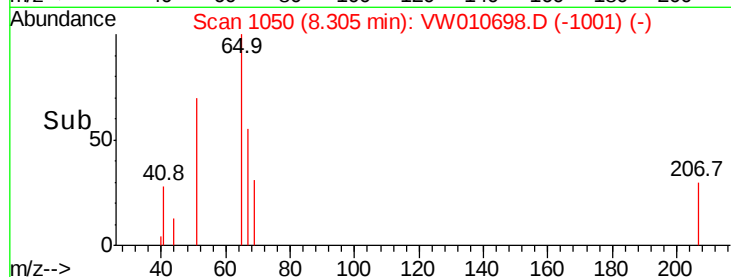
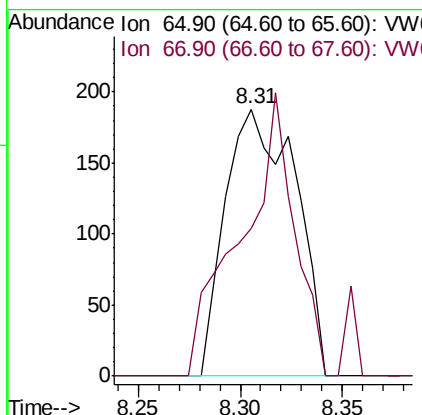
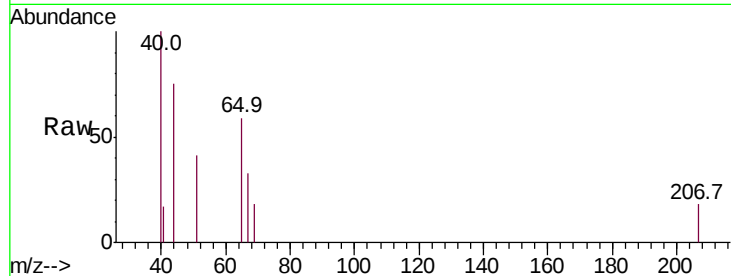




#33
 1,2-Dichloroethane-d4
 Concen: 73.847 ug/l
 RT: 8.31 min Scan# 1050
 Delta R.T. 0.00 min
 Lab File: VW010698.D
 Acq: 05 Jun 2019 17:55

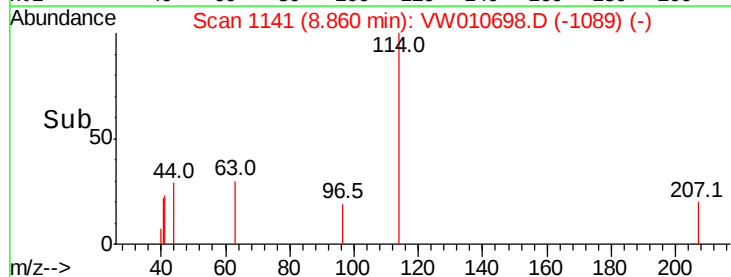
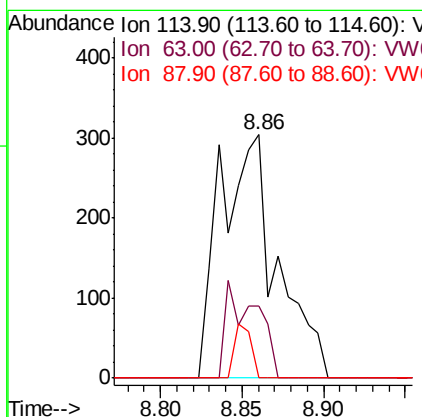
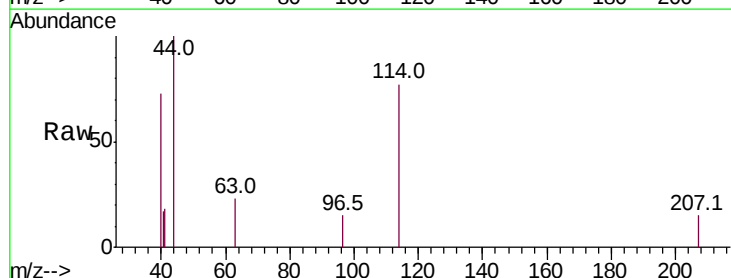
Instrument :
 MSVOA_W
 ClientSampled :
 B-05-1.0-1.5

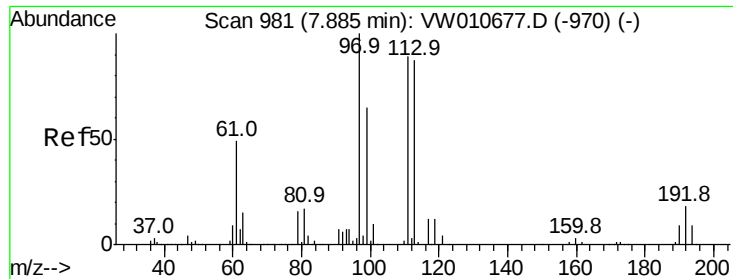
Tot Ion: 65 Resp: 450
 Ion Ratio Lower Upper
 65 100
 67 80.9 0.0 102.6



#34
 1,4-Difluorobenzene
 Concen: 50.000 ug/l
 RT: 8.86 min Scan# 1141
 Delta R.T. 0.02 min
 Lab File: VW010698.D
 Acq: 05 Jun 2019 17:55

Tgt Ion: 114 Resp: 736
 Ion Ratio Lower Upper
 114 100
 63 29.6 0.0 46.4
 88 0.0 0.0 32.2





#35

Dibromofluoromethane

Concen: 79.352 ug/l

RT: 7.90 min Scan# 983

Delta R.T. 0.01 min

Lab File: VW010698.D

Acq: 05 Jun 2019 17:55

Instrument :

MSVOA_W

ClientSampleId :

B-05-1.0-1.5

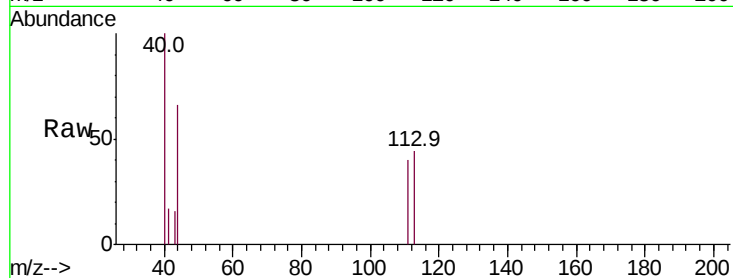
Tot Ion:113 Resp: 317

Ion Ratio Lower Upper

113 100

111 101.6 82.6 123.8

192 0.0 16.4 24.6#



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

7.90

150

100

50

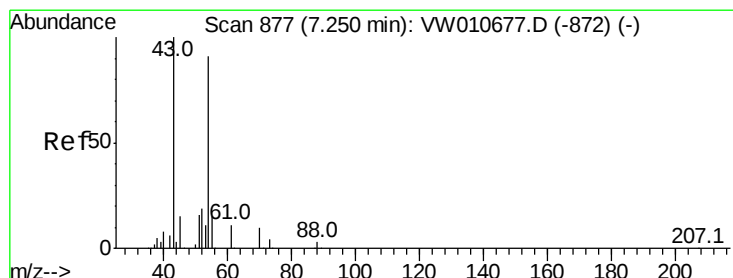
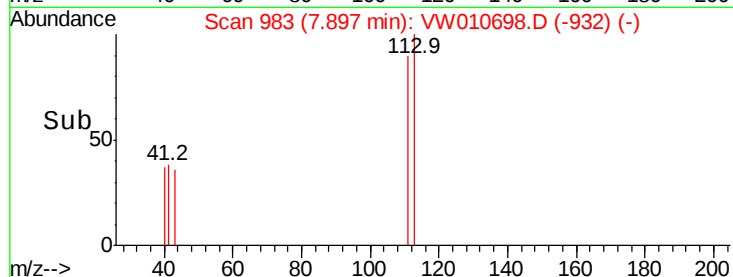
0

7.85

7.90

7.95

Time-->



#37

Ethyl Acetate

Concen: 12.216 ug/l

RT: 7.28 min Scan# 882

Delta R.T. 0.03 min

Lab File: VW010698.D

Acq: 05 Jun 2019 17:55

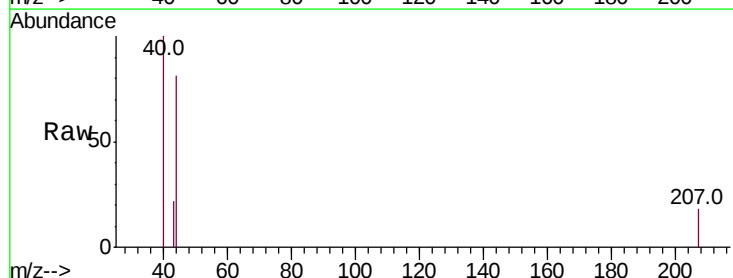
Tgt Ion: 43 Resp: 51

Ion Ratio Lower Upper

43 100

61 0.0 9.7 14.5#

70 0.0 7.2 10.8#



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

7.28

100

80

60

40

20

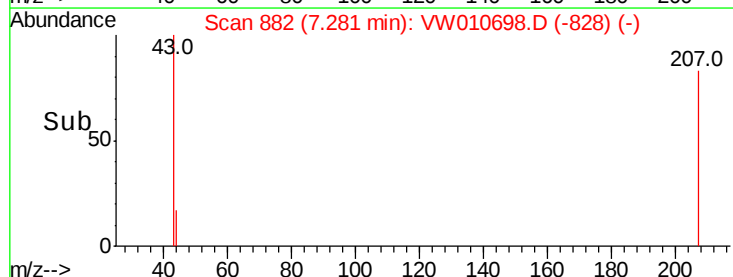
0

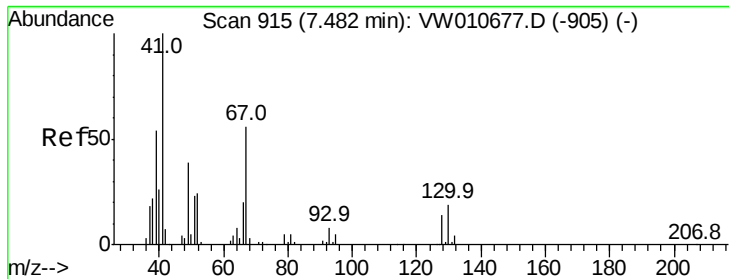
7.26

7.28

7.30

Time-->

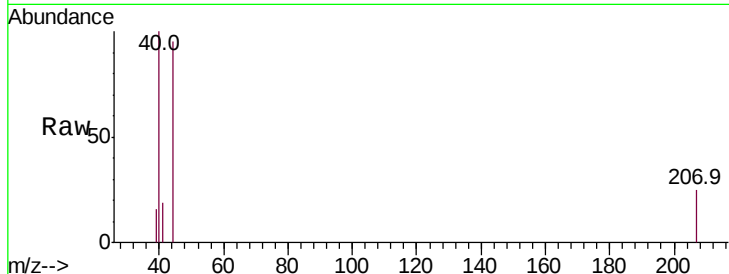




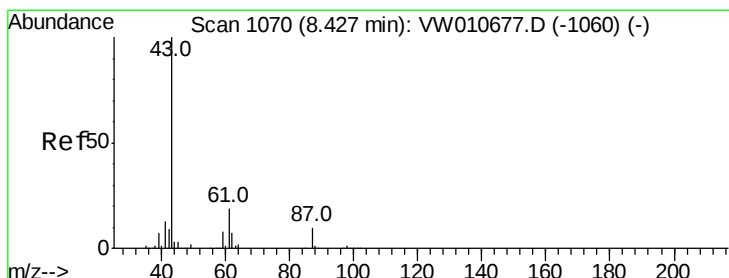
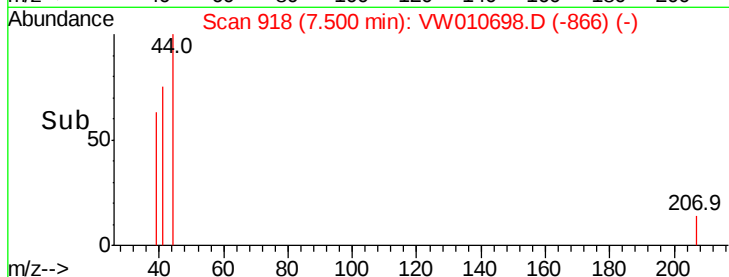
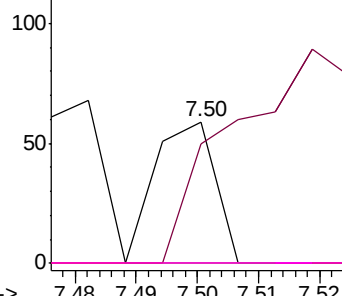
#41
Methacrylonitrile
Concen: 16.119 ug/l
RT: 7.50 min Scan# 918
Delta R.T. 0.02 min
Lab File: VW010698.D
Acq: 05 Jun 2019 17:55

Instrument :
MSVOA_W
ClientSampled :
B-05-1.0-1.5

Tot Ion: 41 Resp: 40
Ion Ratio Lower Upper
41 100
39 312.5 47.3 70.9#
67 0.0 47.2 70.8#
52 0.0 21.3 31.9#

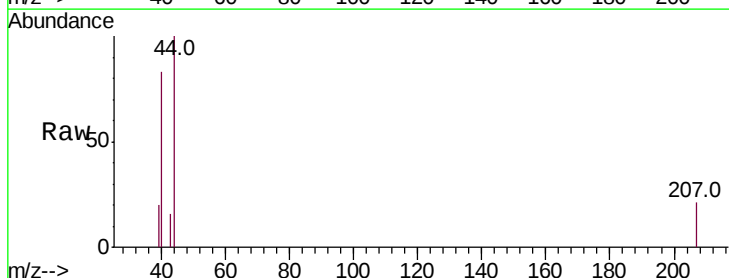


Abundance Ion 41.00 (40.70 to 41.70): VW
Ion 39.00 (38.70 to 39.70): VW
Ion 67.00 (66.70 to 67.70): VW
Ion 52.00 (51.70 to 52.70): VW

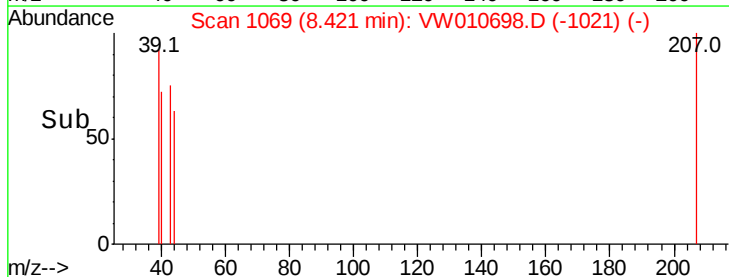
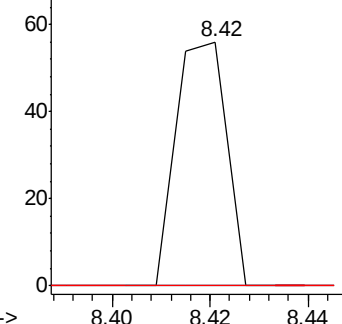


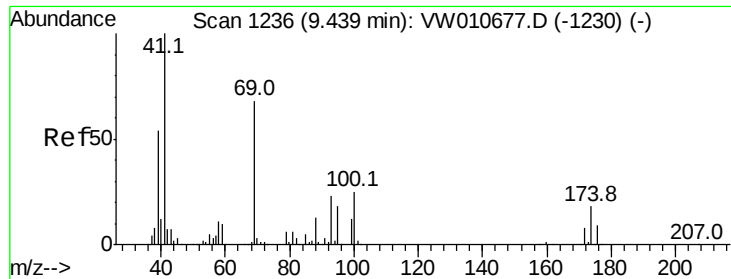
#43
Isopropyl Acetate
Concen: 4.959 ug/l
RT: 8.42 min Scan# 1069
Delta R.T. -0.01 min
Lab File: VW010698.D
Acq: 05 Jun 2019 17:55

Tgt Ion: 43 Resp: 40
Ion Ratio Lower Upper
43 100
61 0.0 21.2 31.8#
87 0.0 8.3 12.5#



Abundance Ion 43.00 (42.70 to 43.70): VW
Ion 61.00 (60.70 to 61.70): VW
Ion 87.00 (86.70 to 87.70): VW

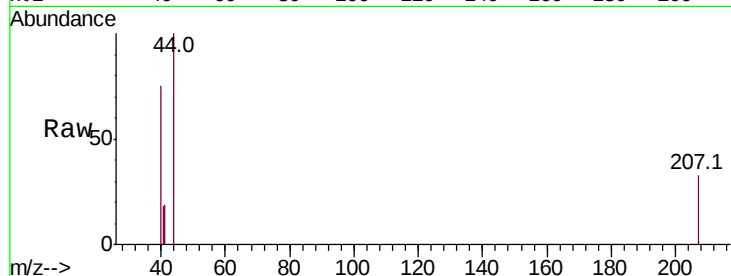




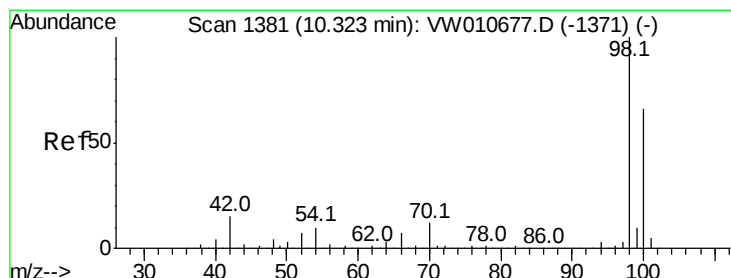
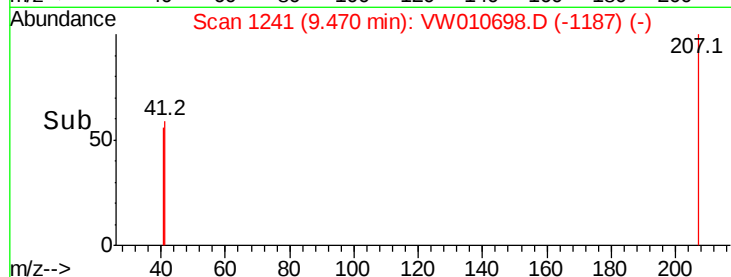
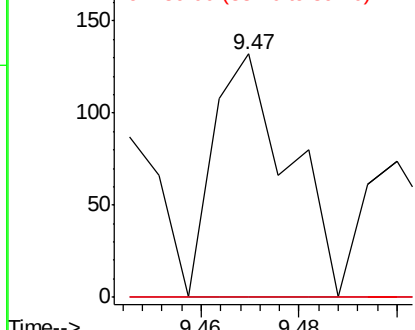
#48
Methvl methacrylate
Concen: 36.259 ug/l
RT: 9.47 min Scan# 1241
Delta R.T. 0.03 min
Lab File: VW010698.D
Acq: 05 Jun 2019 17:55

Instrument :
MSVOA_W
ClientSampled :
B-05-1.0-1.5

Tot Ion: 41 Resp: 141
Ion Ratio Lower Upper
41 100
69 0.0 56.6 85.0#
39 0.0 44.4 66.6#

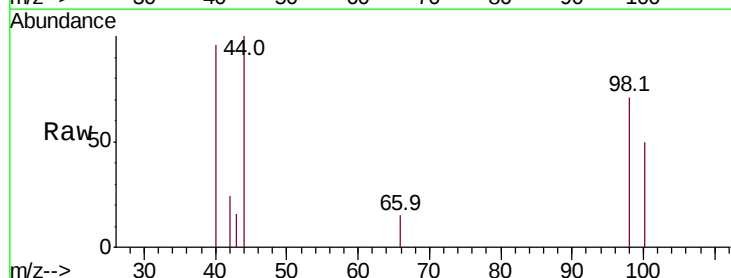


Abundance Ion 41.00 (40.70 to 41.70): VW
Ion 69.00 (68.70 to 69.70): VW
Ion 39.00 (38.70 to 39.70): VW

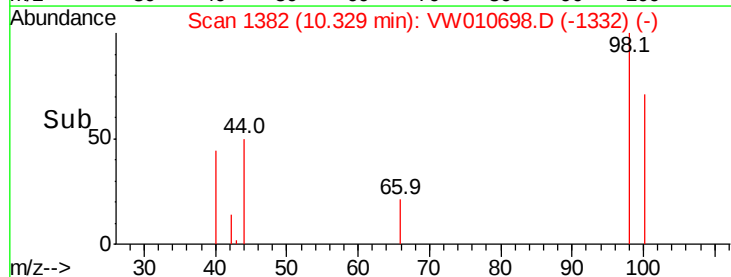
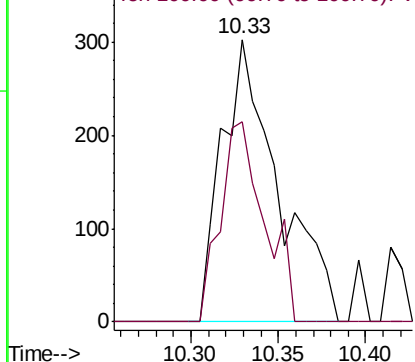


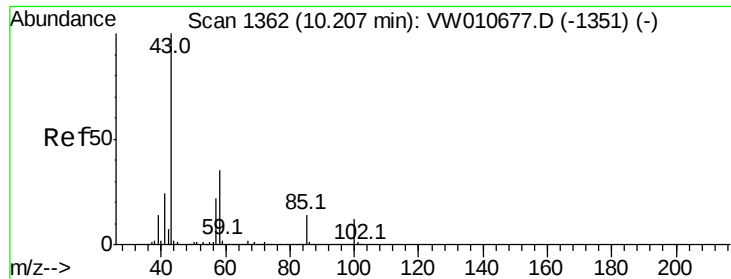
#50
Toluene-d8
Concen: 38.875 ug/l
RT: 10.33 min Scan# 1382
Delta R.T. 0.01 min
Lab File: VW010698.D
Acq: 05 Jun 2019 17:55

Tgt Ion: 98 Resp: 681
Ion Ratio Lower Upper
98 100
100 55.7 53.0 79.6



Abundance Ion 98.00 (97.70 to 98.70): VW
Ion 100.00 (99.70 to 100.70): VW





#51

4-Methyl-2-Pentanone

Concen: 19.416 ug/l

RT: 10.23 min Scan# 1366

Delta R.T. 0.02 min

Lab File: VW010698.D

Acq: 05 Jun 2019 17:55

Instrument :

MSVOA_W

ClientSampled :

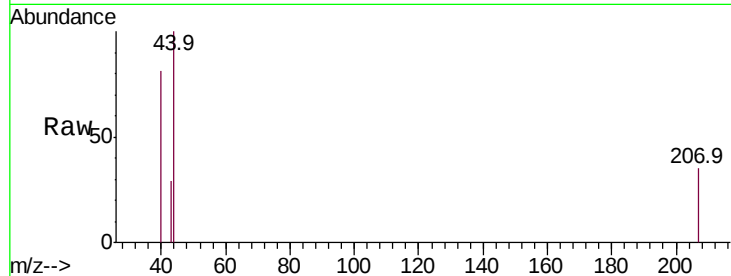
B-05-1.0-1.5

Tot Ion: 43 Resp: 80

Ion Ratio Lower Upper

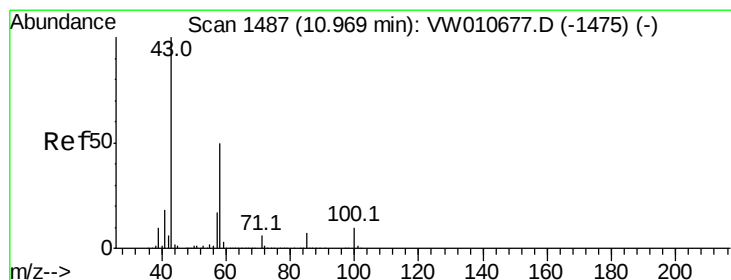
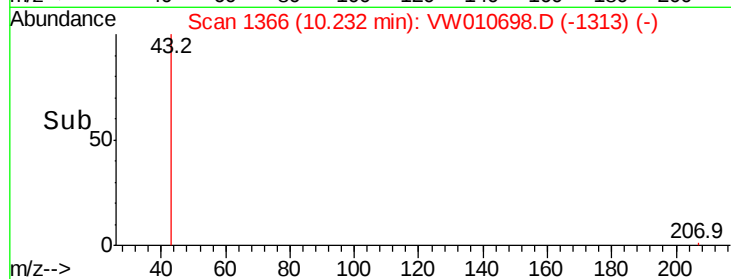
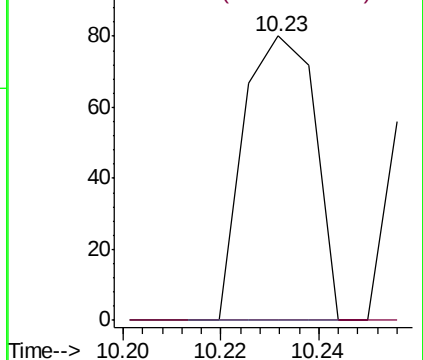
43 100

58 0.0 28.4 42.6#



Abundance Ion 43.00 (42.70 to 43.70): VW

Ion 58.00 (57.70 to 58.70): VW



#59

2-Hexanone

Concen: 10.410 ug/l

RT: 10.98 min Scan# 1488

Delta R.T. 0.01 min

Lab File: VW010698.D

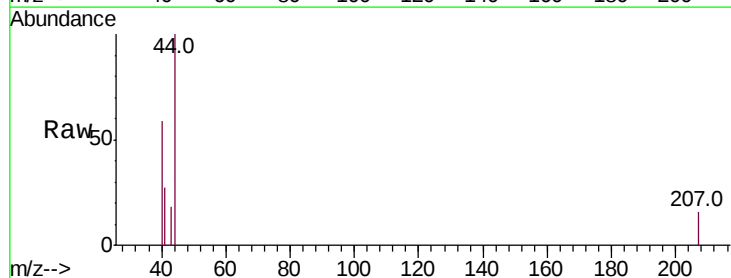
Acq: 05 Jun 2019 17:55

Tgt Ion: 43 Resp: 31

Ion Ratio Lower Upper

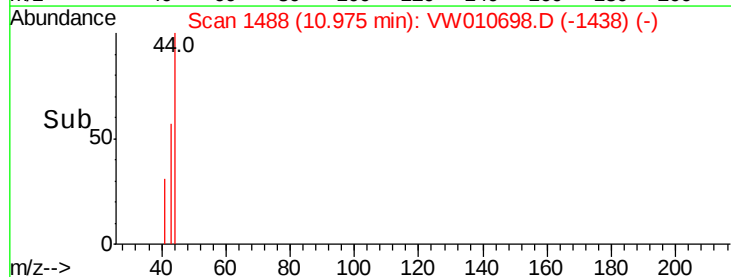
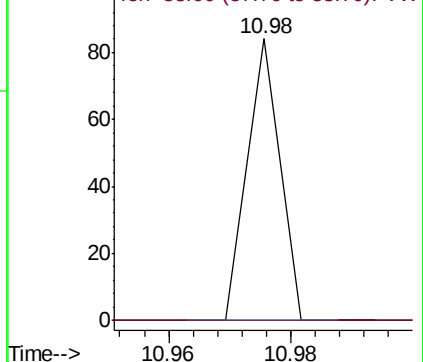
43 100

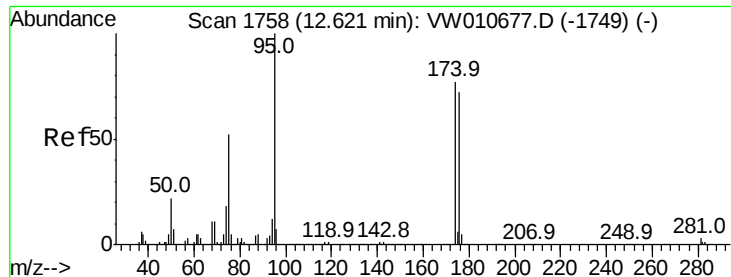
58 0.0 24.9 74.6#



Abundance Ion 43.00 (42.70 to 43.70): VW

Ion 58.00 (57.70 to 58.70): VW

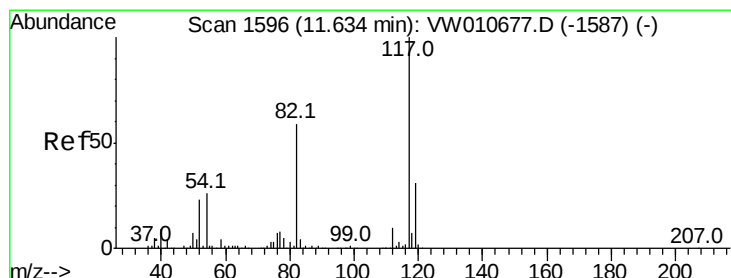
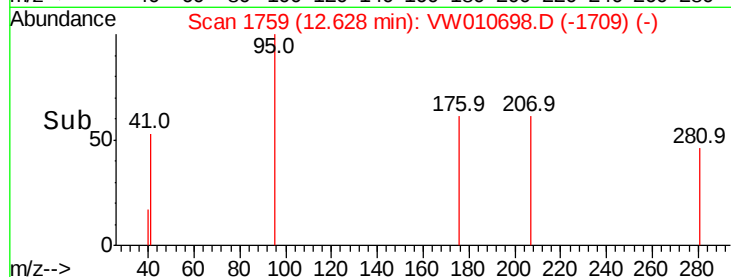
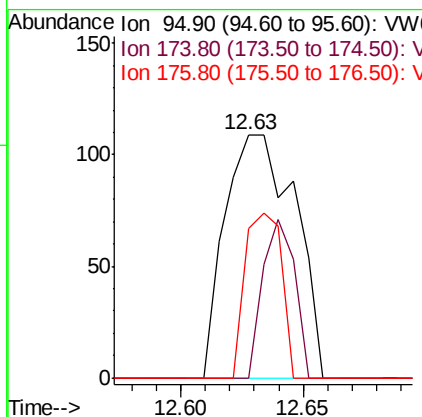
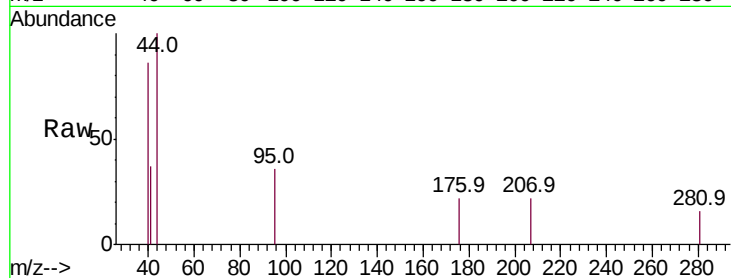




#62
4-Bromofluorobenzene
Concen: 34.042 ug/l
RT: 12.63 min Scan# 1759
Delta R.T. 0.01 min
Lab File: VW010698.D
Acq: 05 Jun 2019 17:55

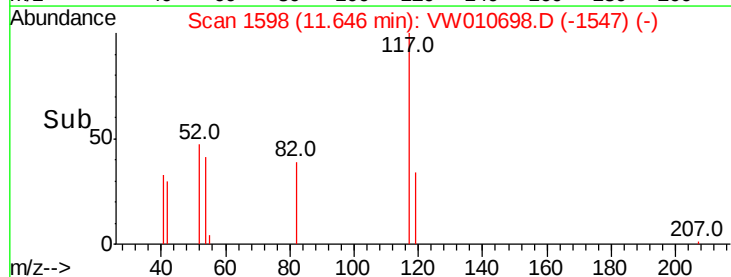
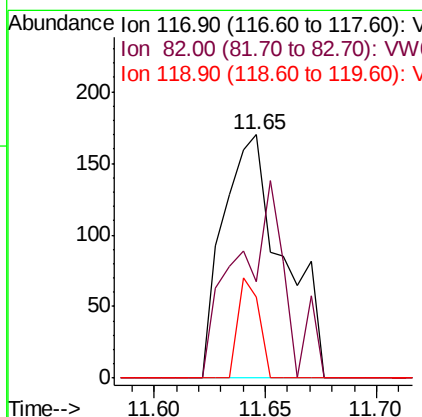
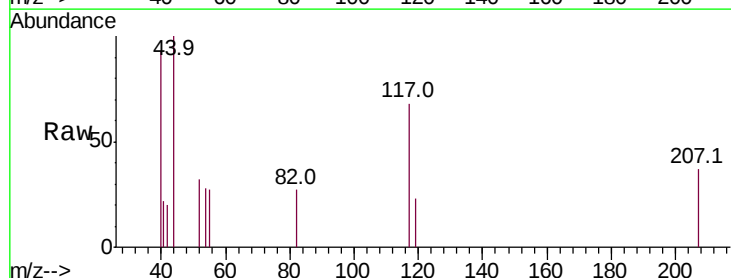
Instrument :
MSVOA_W
ClientSampleId :
B-05-1.0-1.5

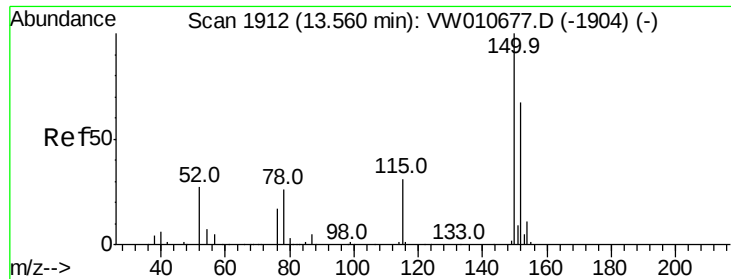
Tot Ion	Ratio	Lower	Upper
95	100		
174	29.5	0.0	150.4
176	35.0	0.0	144.8



#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.65 min Scan# 1598
Delta R.T. 0.01 min
Lab File: VW010698.D
Acq: 05 Jun 2019 17:55

Tgt Ion	Ratio	Lower	Upper
117	100		
82	39.4	47.0	70.4#
119	33.5	25.1	37.7



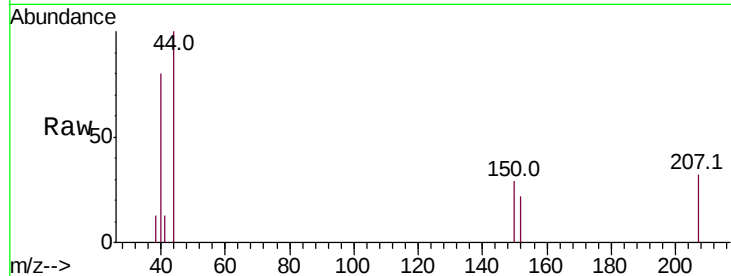


#72

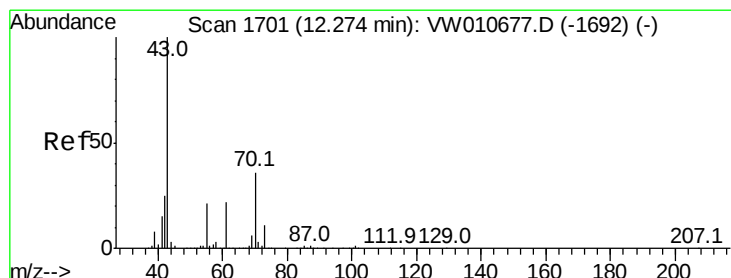
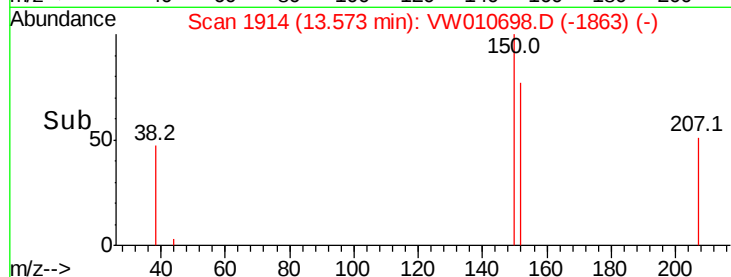
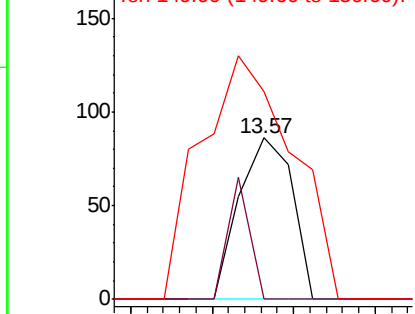
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 13.57 min Scan# 1914
Delta R.T. 0.01 min
Lab File: VW010698.D
Acq: 05 Jun 2019 17:55

Instrument :
MSVOA_W
ClientSampleId :
B-05-1.0-1.5

Tot Ion:152 Resp: 78
Ion Ratio Lower Upper
152 100
115 30.8 29.8 89.3
150 261.5 0.0 345.0



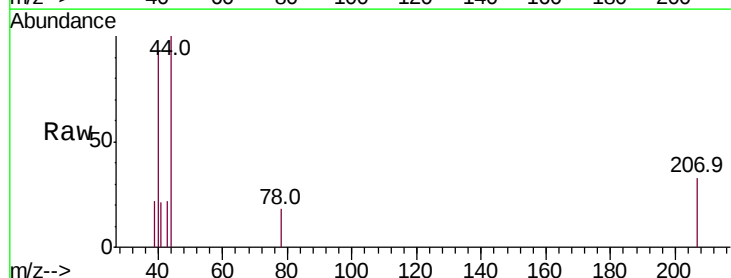
Abundance Ion 151.90 (151.60 to 152.60): V
Ion 114.90 (114.60 to 115.60): V
Ion 149.90 (149.60 to 150.60): V



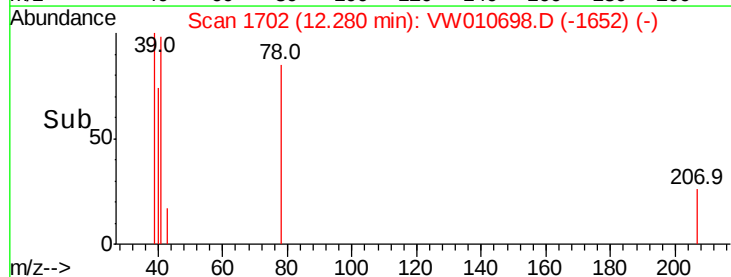
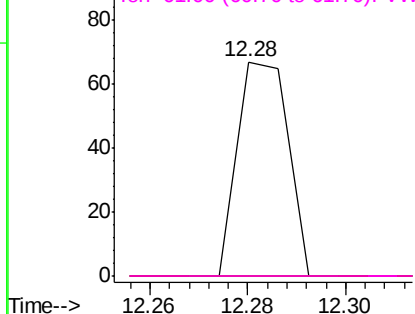
#74

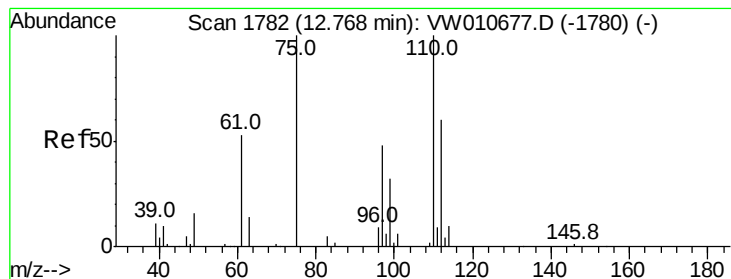
N-ethyl acetate
Concen: 25.339 ug/l
RT: 12.28 min Scan# 1702
Delta R.T. 0.01 min
Lab File: VW010698.D
Acq: 05 Jun 2019 17:55

Tgt Ion: 43 Resp: 48
Ion Ratio Lower Upper
43 100
70 0.0 29.2 43.8#
55 0.0 17.5 26.3#
61 0.0 17.4 26.2#



Abundance Ion 43.00 (42.70 to 43.70): VW
Ion 70.00 (69.70 to 70.70): VW
Ion 55.00 (54.70 to 55.70): VW
Ion 61.00 (60.70 to 61.70): VW





#76

1,2,3-Trichloropropane

Concen: 25.638 ug/l

RT: 12.63 min Scan# 1760

Delta R.T. -0.13 min

Lab File: VW010698.D

Acq: 05 Jun 2019 17:55

Instrument :

MSVOA_W

ClientSampled :

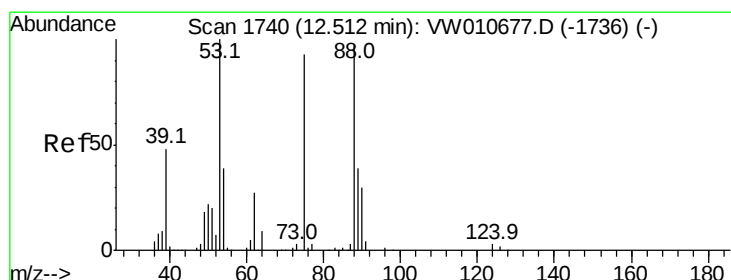
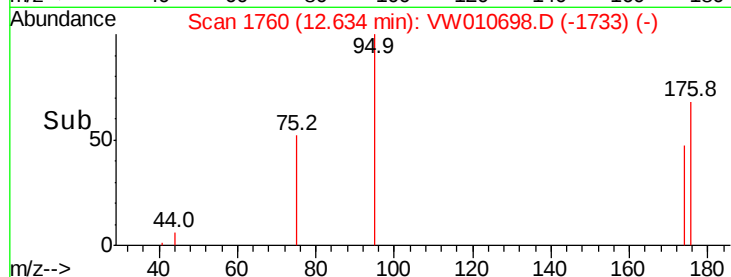
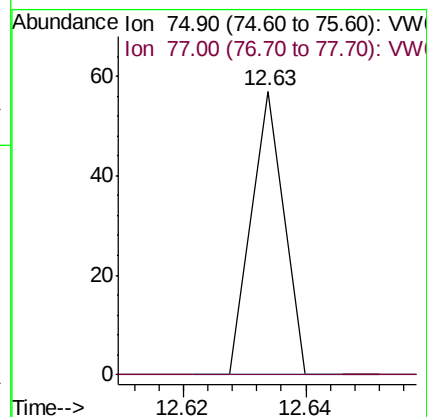
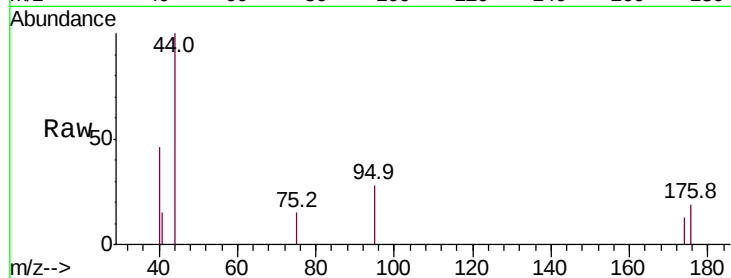
B-05-1.0-1.5

Tot Ion: 75 Resp: 21

Ion Ratio Lower Upper

75 100

77 0.0 0.0 0.0



#81

trans-1,4-Dichloro-2-butene

Concen: 58.924 ug/l

RT: 12.63 min Scan# 1760

Delta R.T. 0.12 min

Lab File: VW010698.D

Acq: 05 Jun 2019 17:55

Tgt Ion: 75 Resp: 21

Ion Ratio Lower Upper

75 100

53 0.0 90.1 135.1#

89 0.0 34.6 52.0#

