

Data Path : Z:\VOASRV\HPCHEM1\MSVOA W\DATA\VW033119\
 Data File : VW009617.D
 Acq On : 31 Mar 2019 18:09
 Operator : SY/VA
 Sample : K2138-13
 Misc : 3.96G/5.0ML/MSVOA W/SOIL
 ALS Vial : 14 Sample Multiplier: 1

Instrument :
 MSVOA_W
 ClientSampleId :

Quant Time: Apr 01 04:56:39 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_W\METHOD\82W032919S.M
 Quant Title : SW846 8260
 QLast Update : Fri Mar 29 13:24:53 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	7.95	168	253549	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	8.84	114	425339	50.00	ug/l	0.00
63) Chlorobenzene-d5	11.63	117	378403	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.56	152	174330	50.00	ug/l	0.00

System Monitoring Compounds	R.T.	QIon	Response	Conc	Units	Dev(Min)
33) 1,2-Dichloroethane-d4	8.31	65	70413	24.29	ug/l	0.00
Spiked Amount				50.000		
			Recovery	=	48.58%	
35) Dibromofluoromethane	7.88	113	56511	21.15	ug/l	0.00
Spiked Amount				50.000		
			Recovery	=	42.30%	
50) Toluene-d8	10.32	98	188601	19.10	ug/l	0.00
Spiked Amount				50.000		
			Recovery	=	38.20%	
62) 4-Bromofluorobenzene	12.62	95	60743	16.49	ug/l	0.00
Spiked Amount				50.000		
			Recovery	=	32.98%	

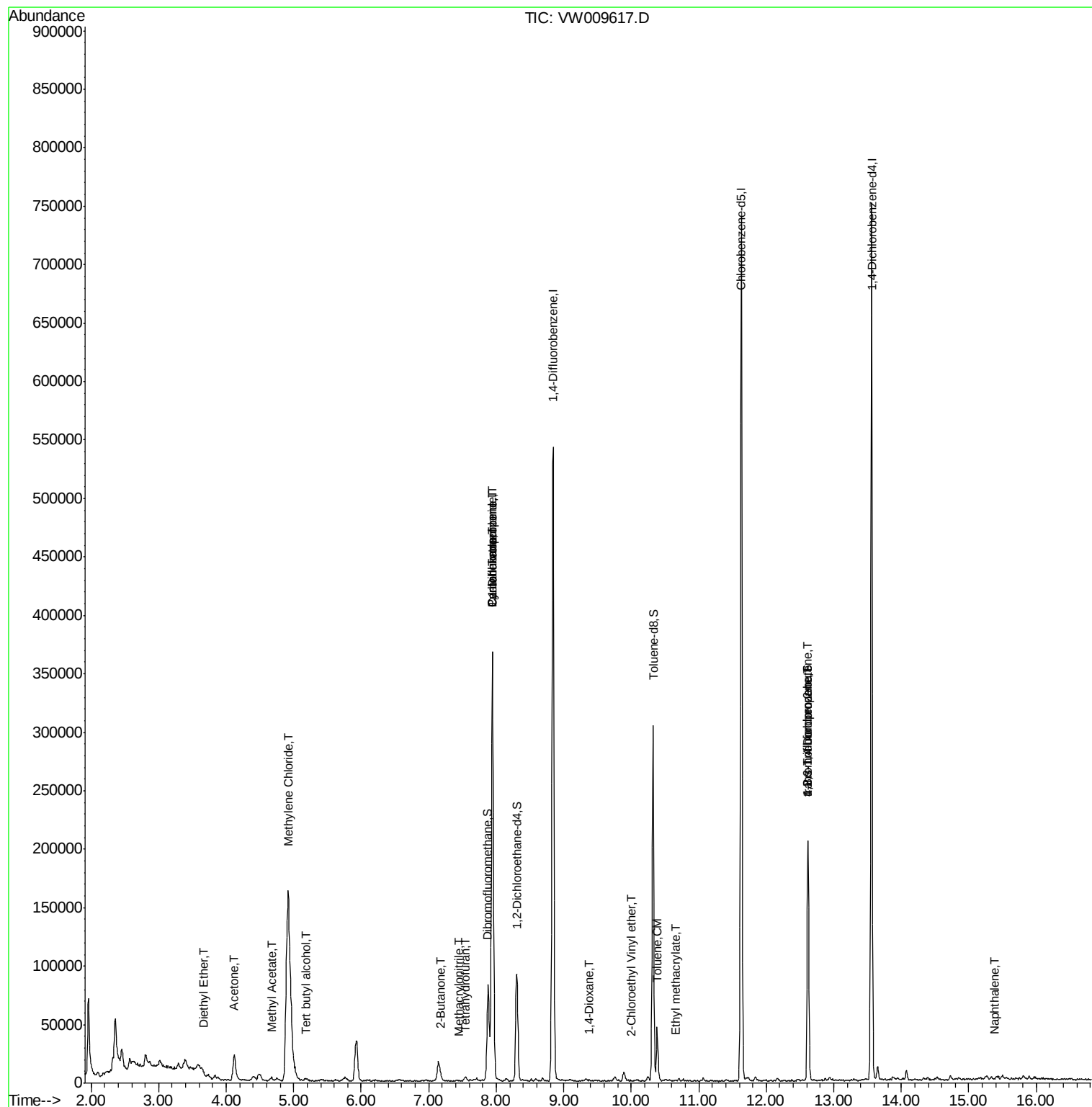
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
2) Dichlorodifluoromethane	2.00	85	62	Below Cal	#	41
8) Diethyl Ether	3.67	74	2128	1.626	ug/l	95
11) Tert butyl alcohol	5.18	59	2372	14.110	ug/l #	81
16) Acetone	4.12	43	37549	57.600	ug/l	94
18) Methyl Acetate	4.68	43	5003	3.175	ug/l	99
20) Methylene Chloride	4.92	84	162287	64.588	ug/l	94
25) 2-Butanone	7.18	43	1687	1.873	ug/l #	59
29) Tetrahydrofuran	7.53	42	891	1.593	ug/l #	69
31) Cyclohexane	7.94	56	7562	1.585	ug/l #	44
36) 1,1-Dichloropropene	7.94	75	22070	5.017	ug/l #	51
38) Carbon Tetrachloride	7.94	117	27237	6.042	ug/l #	17
41) Methacrylonitrile	7.45	41	292	4.119	ug/l #	29
49) 1,4-Dioxane	9.38	88	32	1.300	ug/l #	1
52) Toluene	10.39	92	17535	2.350	ug/l	97
56) Ethyl methacrylate	10.65	69	25	3.804	ug/l #	1
58) 2-Chloroethyl Vinyl ether	10.01	63	131	17.099	ug/l #	46
76) 1,2,3-Trichloropropane	12.62	75	35692	21.772	ug/l #	100
81) trans-1,4-Dichloro-2-buten	12.62	75	35692	50.629	ug/l #	7
95) Naphthalene	15.37	128	545	2.799	ug/l #	69

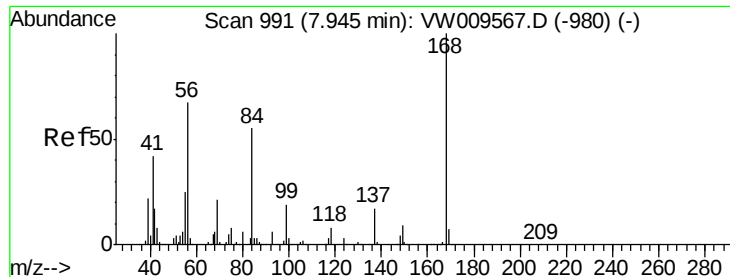
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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QLast Update : Fri Mar 29 13:24:53 2019
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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: VW009617.D

Acq: 31 Mar 2019 18:09

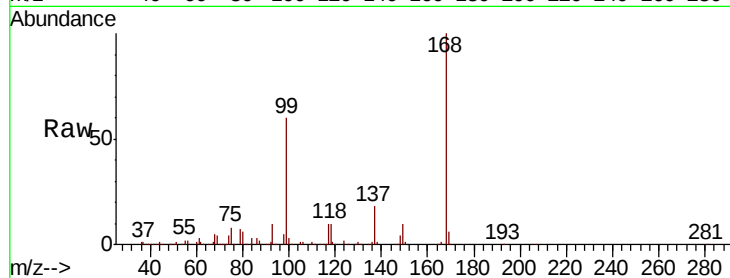
Instrument :
MSVOA_W
ClientSampleId :

Tot Ion:168 Resp: 253549

Ion Ratio Lower Upper

168 100

99 60.2 45.4 68.0



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VW

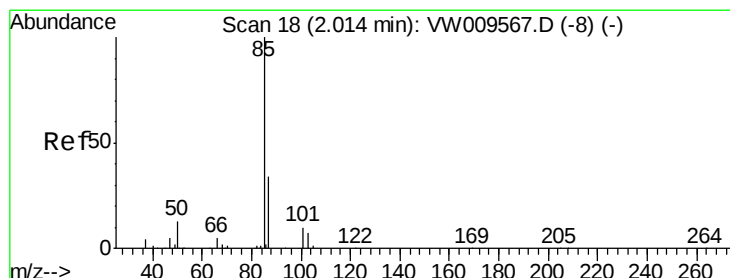
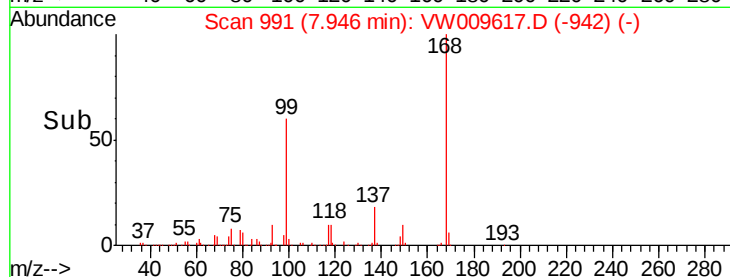
7.95

100000

50000

0

Time--> 7.80 7.90 8.00



#2

Dichlorodifluoromethane

Concen: Below Cal

RT: 2.00 min Scan# 15

Delta R.T. -0.02 min

Lab File: VW009617.D

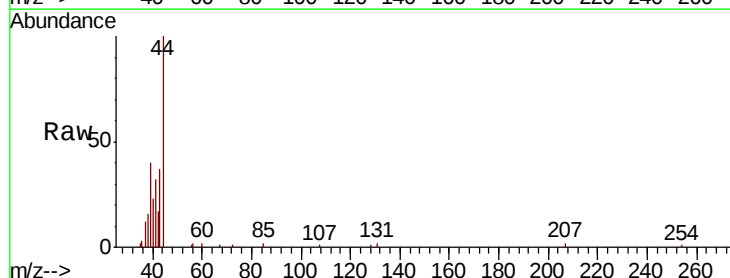
Acq: 31 Mar 2019 18:09

Tgt Ion: 85 Resp: 62

Ion Ratio Lower Upper

85 100

87 0.0 16.7 50.1#



Abundance Ion 84.90 (84.60 to 85.60): VW

Ion 86.90 (86.60 to 87.60): VW

2.00

100

80

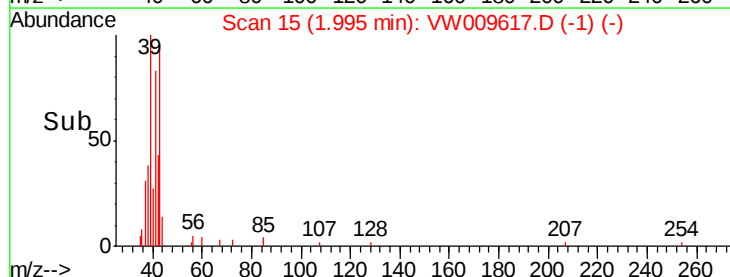
60

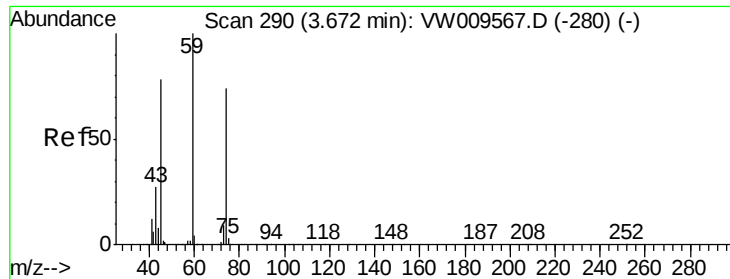
40

20

0

Time--> 1.98 2.00 2.02





#8

Diethyl Ether

Concen: 1.626 ug/l

RT: 3.67 min Scan# 289

Delta R.T. -0.01 min

Lab File: VW009617.D

Acq: 31 Mar 2019 18:09

Instrument :

MSVOA_W

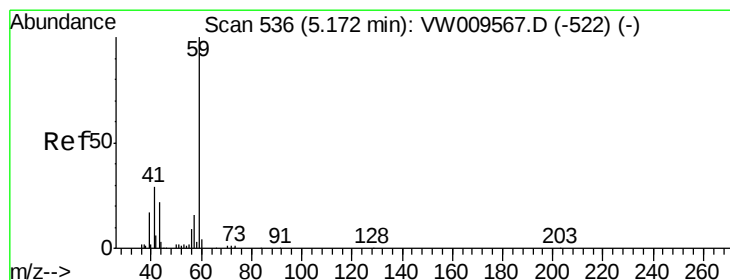
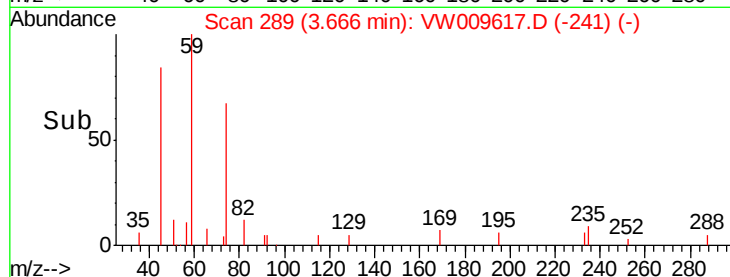
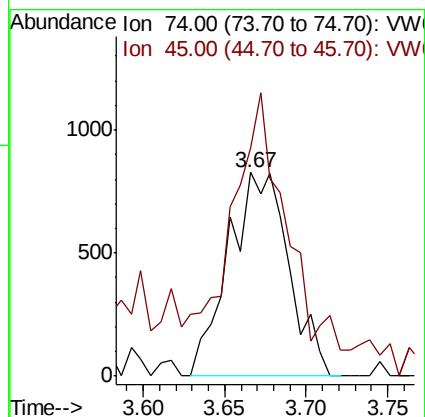
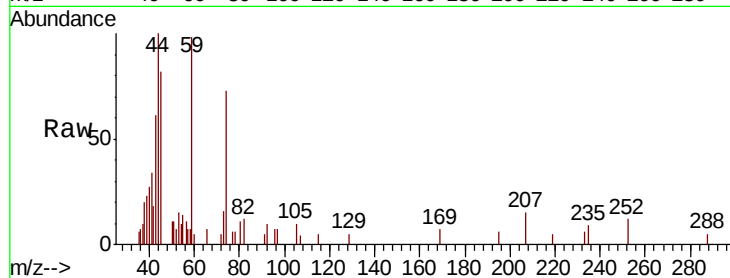
ClientSampled :

Tot Ion: 74 Resp: 2128

Ion Ratio Lower Upper

74 100

45 106.1 50.6 151.9



#11

Tert butyl alcohol

Concen: 14.110 ug/l

RT: 5.18 min Scan# 537

Delta R.T. 0.01 min

Lab File: VW009617.D

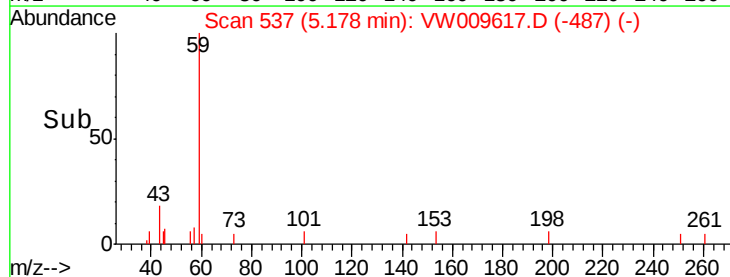
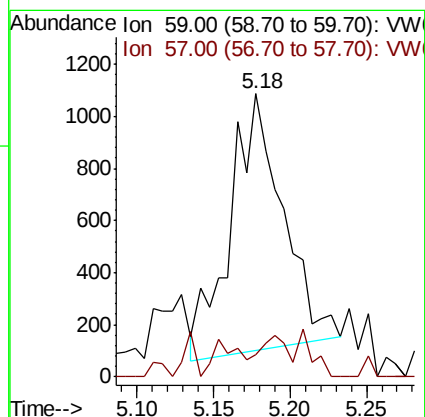
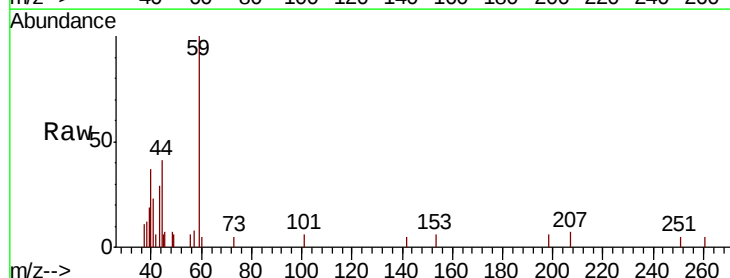
Acq: 31 Mar 2019 18:09

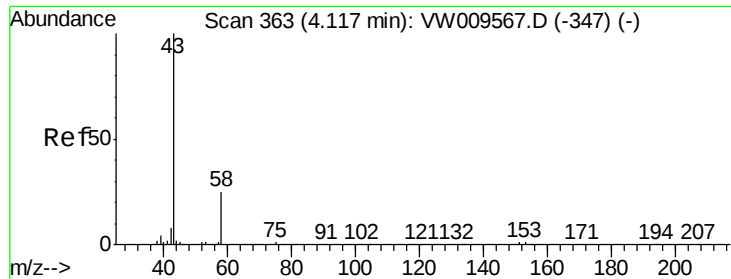
Tgt Ion: 59 Resp: 2372

Ion Ratio Lower Upper

59 100

57 4.4 9.4 14.0#





#16

Acetone

Concen: 57.600 ug/l

RT: 4.12 min Scan# 363

Delta R.T. 0.00 min

Lab File: VW009617.D

Acq: 31 Mar 2019 18:09

Instrument :

MSVOA_W

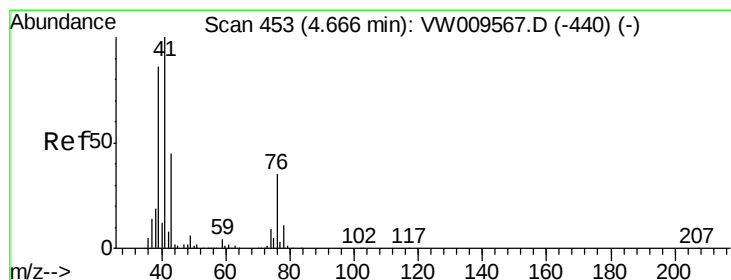
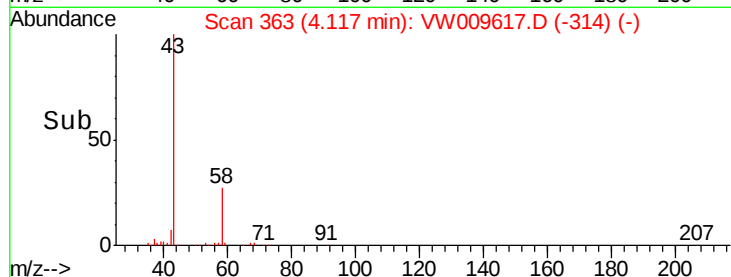
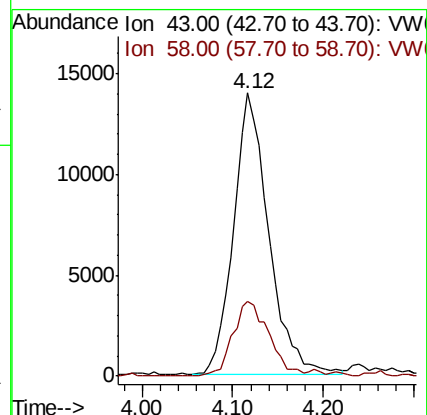
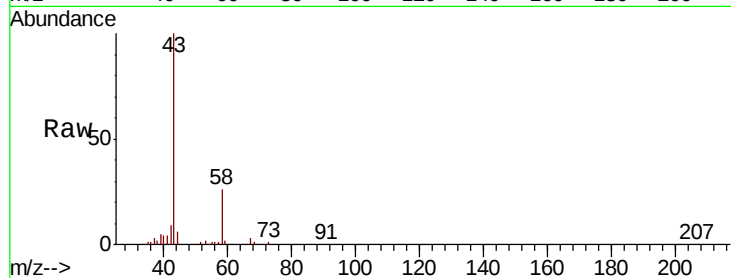
ClientSampleId :

Tot Ion: 43 Resp: 37549

Ion Ratio Lower Upper

43 100

58 26.5 23.6 35.4



#18

Methyl Acetate

Concen: 3.175 ug/l

RT: 4.68 min Scan# 455

Delta R.T. 0.01 min

Lab File: VW009617.D

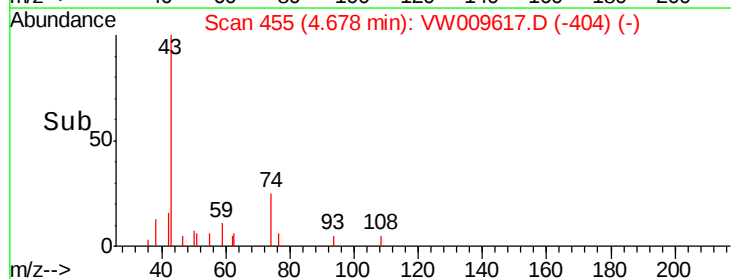
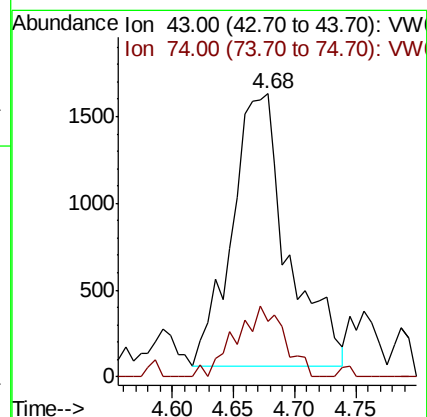
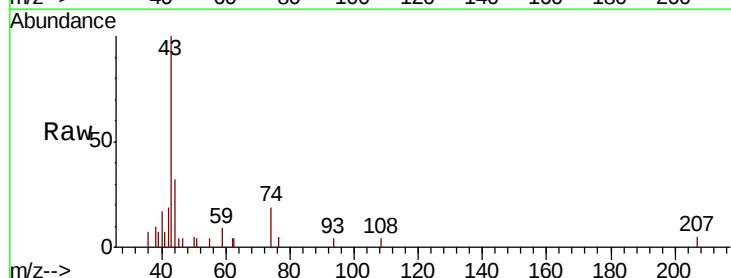
Acq: 31 Mar 2019 18:09

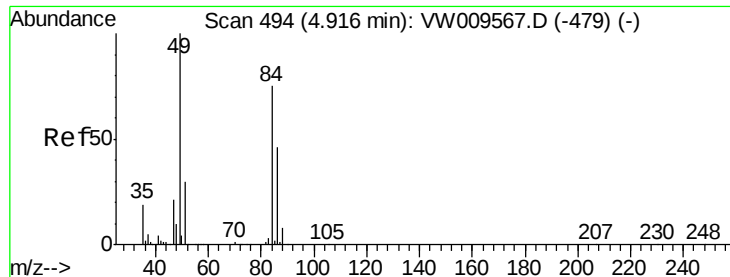
Tgt Ion: 43 Resp: 5003

Ion Ratio Lower Upper

43 100

74 22.4 17.7 26.5

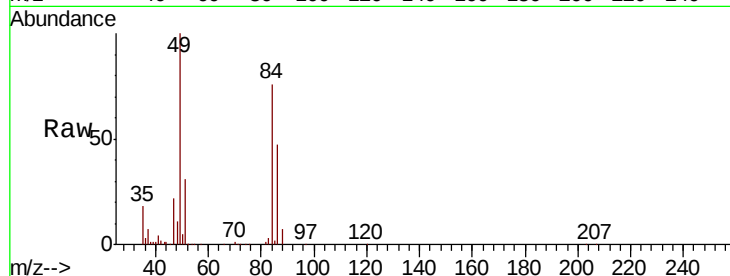




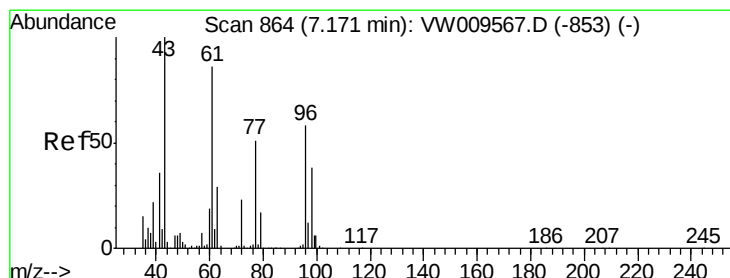
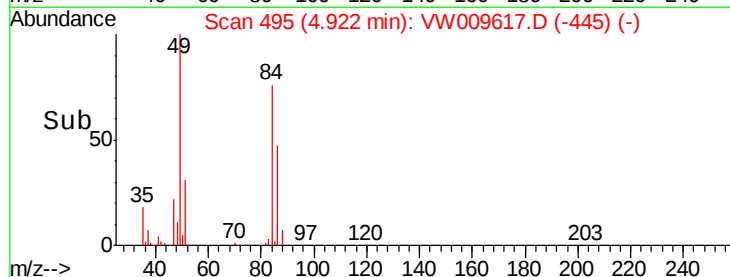
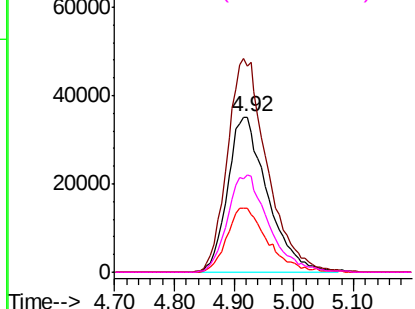
#20
Methylene Chloride
Concen: 64.588 ug/l
RT: 4.92 min Scan# 495
Delta R.T. 0.01 min
Lab File: VW009617.D
Acq: 31 Mar 2019 18:09

Instrument :
MSVOA_W
ClientSampled :

Tot Ion:	84	Resp:	162287
Ion	Ratio	Lower	Upper
84	100		
49	132.2	99.1	148.7
51	41.7	28.7	43.1
86	62.3	50.5	75.7

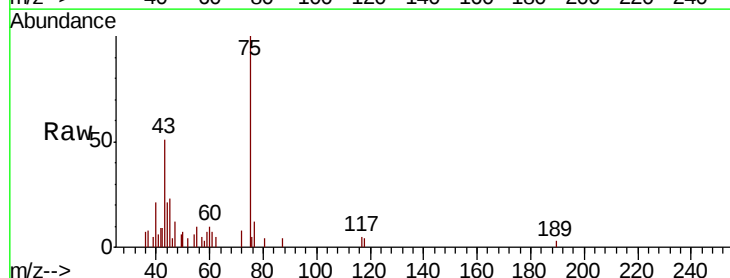


Abundance Ion 83.90 (83.60 to 84.60): VW
Ion 48.90 (48.60 to 49.60): VW
Ion 50.90 (50.60 to 51.60): VW
Ion 85.90 (85.60 to 86.60): VW

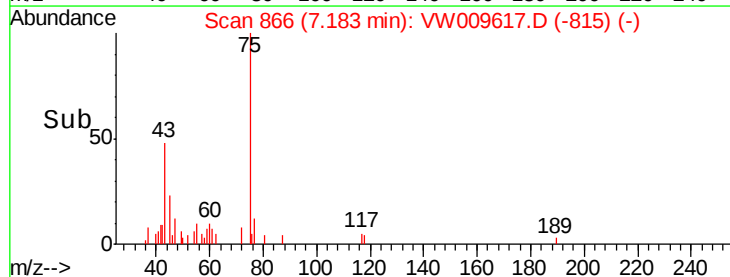
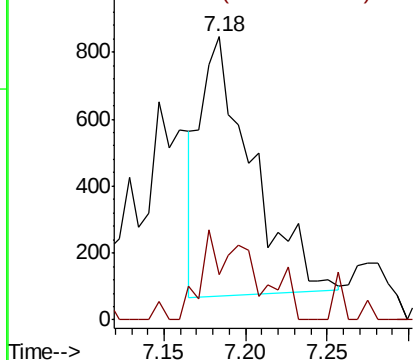


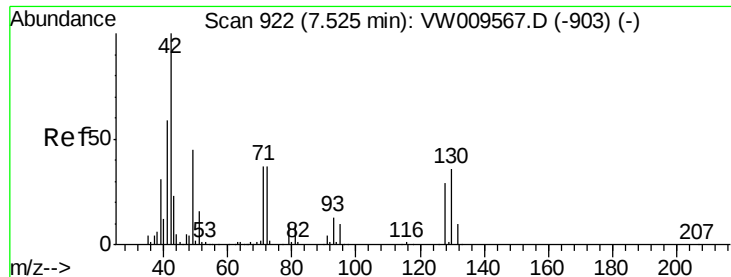
#25
2-Butanone
Concen: 1.873 ug/l
RT: 7.18 min Scan# 866
Delta R.T. 0.01 min
Lab File: VW009617.D
Acq: 31 Mar 2019 18:09

Tgt Ion:	43	Resp:	1687
Ion	Ratio	Lower	Upper
43	100		
72	4.4	20.0	30.0#



Abundance Ion 43.00 (42.70 to 43.70): VW
Ion 72.00 (71.70 to 72.70): VW

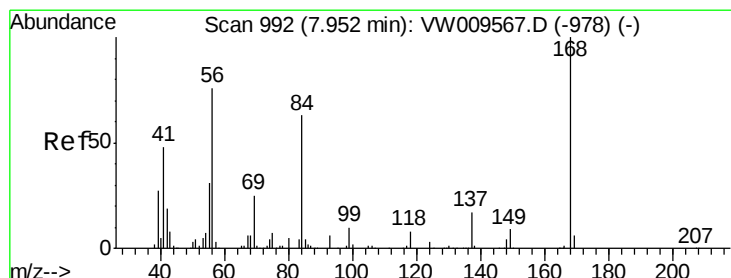
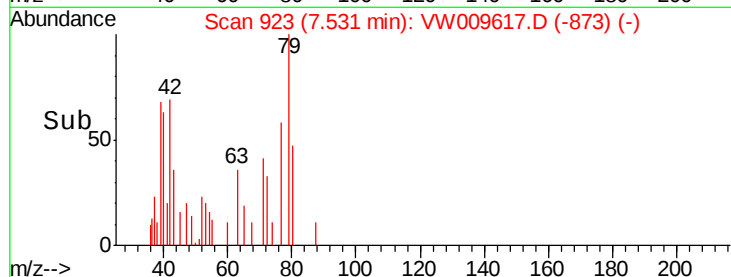
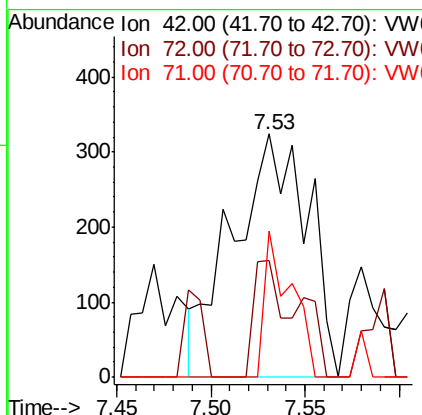
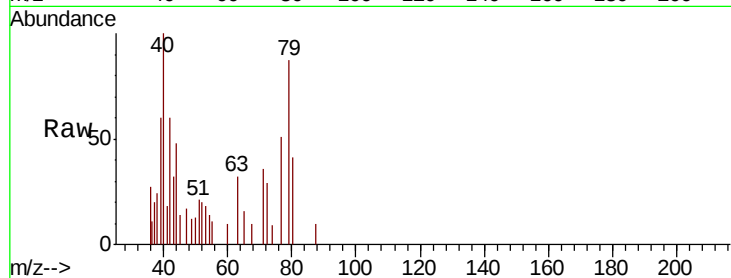




#29
Tetrahydrofuran
Concen: 1.593 ug/l
RT: 7.53 min Scan# 923
Delta R.T. 0.01 min
Lab File: VW009617.D
Acq: 31 Mar 2019 18:09

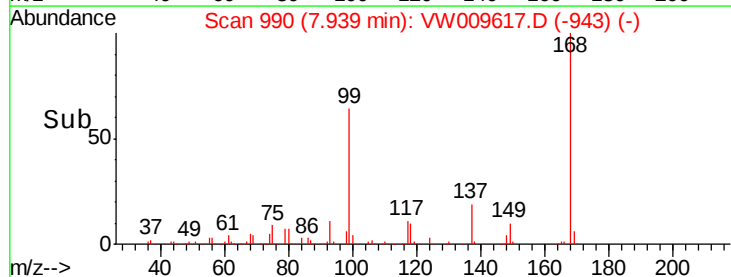
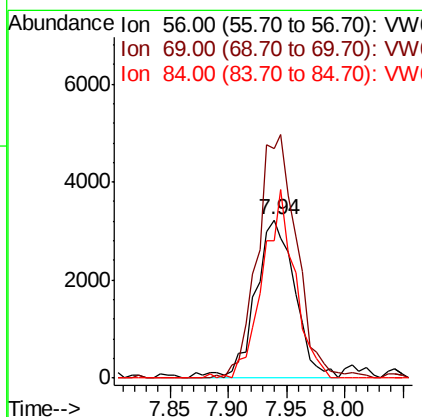
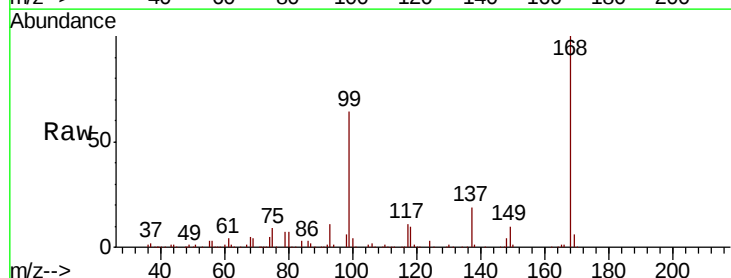
Instrument :
MSVOA_W
ClientSampled :

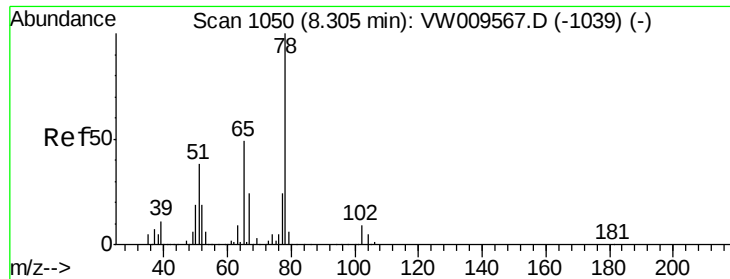
Tot Ion: 42 Resp: 891
Ion Ratio Lower Upper
42 100
72 19.2 32.4 48.6#
71 21.4 30.1 45.1#



#31
Cyclohexane
Concen: 1.585 ug/l
RT: 7.94 min Scan# 990
Delta R.T. -0.01 min
Lab File: VW009617.D
Acq: 31 Mar 2019 18:09

Tgt Ion: 56 Resp: 7562
Ion Ratio Lower Upper
56 100
69 145.5 26.1 39.1#
84 87.3 68.6 103.0

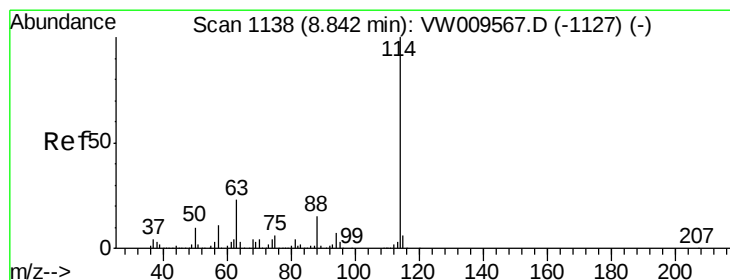
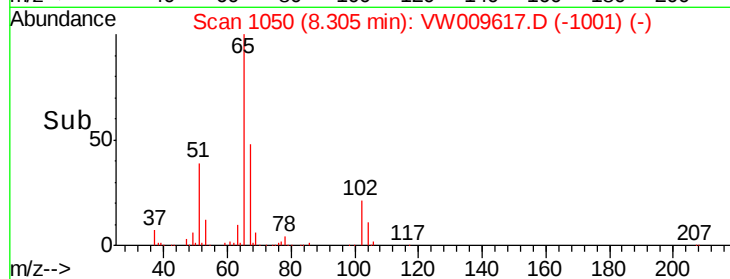
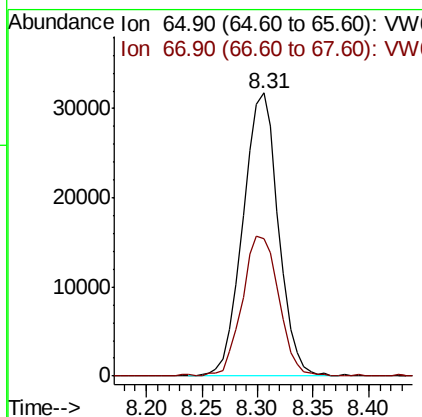
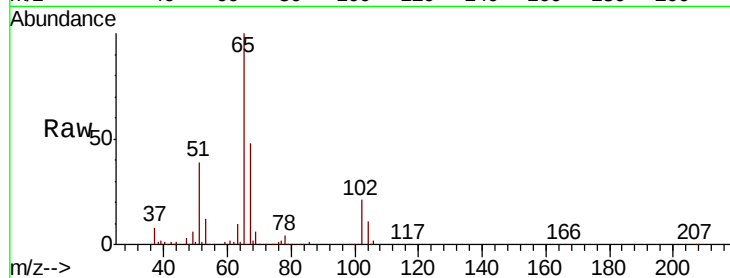




#33
 1,2-Dichloroethane-d4
 Concen: 24.285 ug/l
 RT: 8.31 min Scan# 1050
 Delta R.T. 0.00 min
 Lab File: VW009617.D
 Acq: 31 Mar 2019 18:09

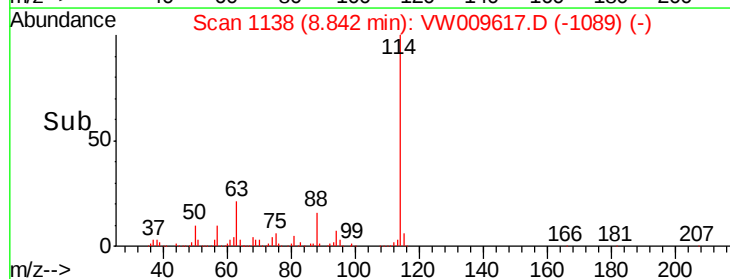
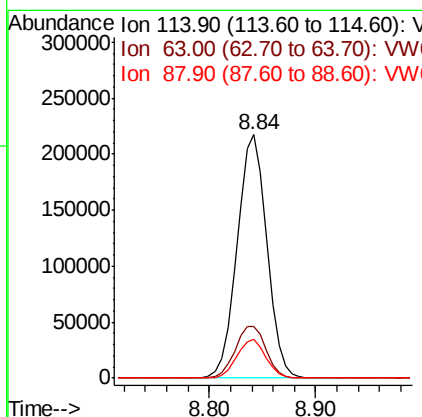
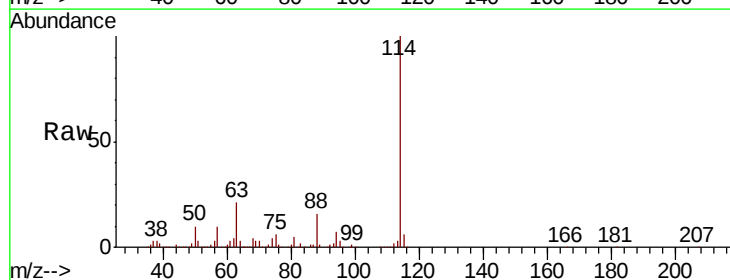
Instrument :
 MSVOA_W
 ClientSampleId :

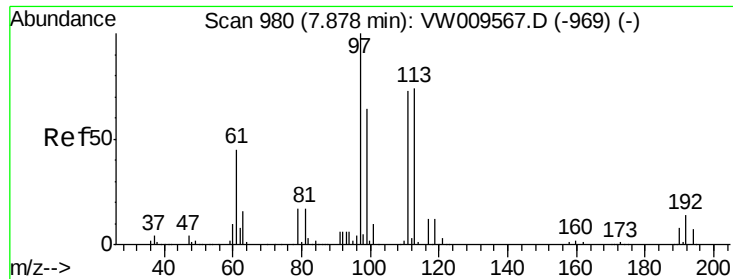
Tot Ion: 65 Resp: 70413
 Ion Ratio Lower Upper
 65 100
 67 51.3 0.0 102.4



#34
 1,4-Difluorobenzene
 Concen: 50.000 ug/l
 RT: 8.84 min Scan# 1138
 Delta R.T. 0.00 min
 Lab File: VW009617.D
 Acq: 31 Mar 2019 18:09

Tgt Ion: 114 Resp: 425339
 Ion Ratio Lower Upper
 114 100
 63 21.2 0.0 42.2
 88 15.9 0.0 30.8





#35

Dibromofluoromethane

Concen: 21.154 ug/l

RT: 7.88 min Scan# 981

Delta R.T. 0.01 min

Lab File: VW009617.D

Acq: 31 Mar 2019 18:09

Instrument :

MSVOA_W

ClientSampleId :

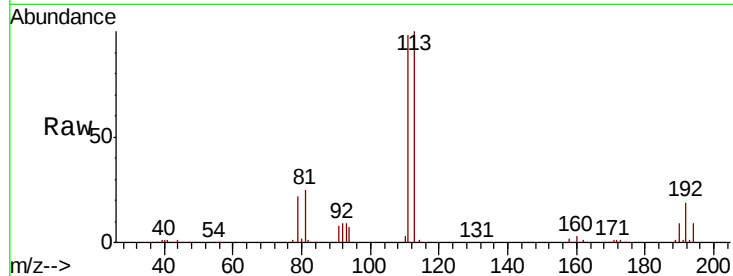
Tot Ion:113 Resp: 56511

Ion Ratio Lower Upper

113 100

111 105.3 82.6 124.0

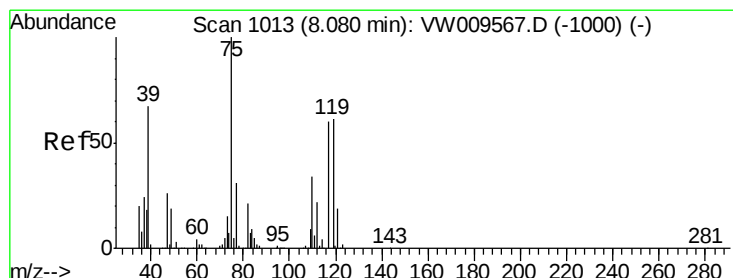
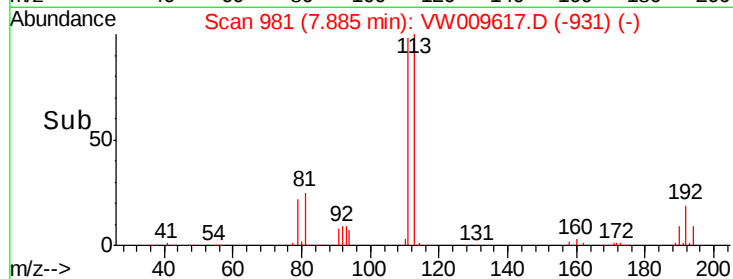
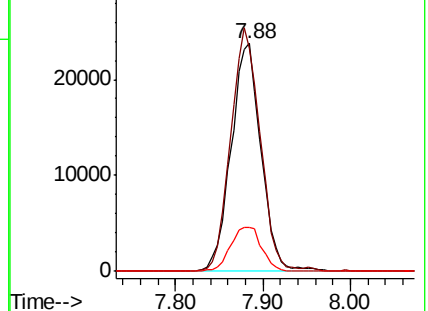
192 20.1 16.4 24.6



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



#36

1,1-Dichloropropene

Concen: 5.017 ug/l

RT: 7.94 min Scan# 990

Delta R.T. -0.14 min

Lab File: VW009617.D

Acq: 31 Mar 2019 18:09

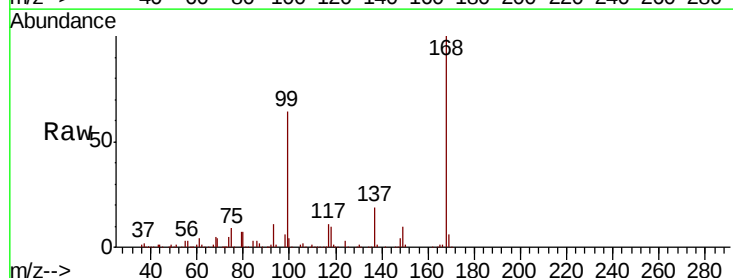
Tgt Ion: 75 Resp: 22070

Ion Ratio Lower Upper

75 100

110 9.7 16.8 50.4#

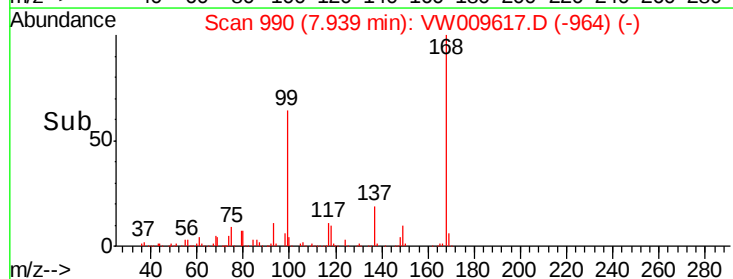
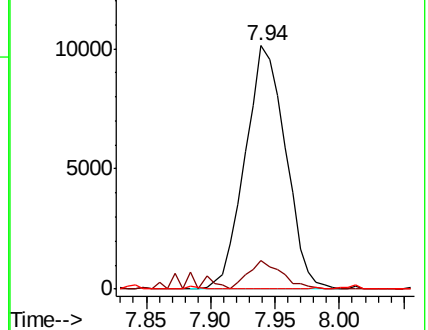
77 0.0 24.6 36.8#

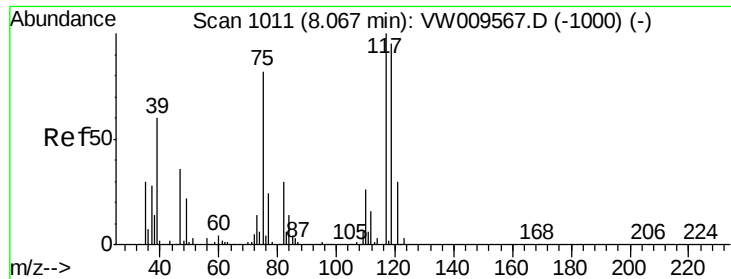


Abundance Ion 74.90 (74.60 to 75.60): VW

Ion 109.90 (109.60 to 110.60): V

Ion 76.90 (76.60 to 77.60): VW





#38

Carbon Tetrachloride

Concen: 6.042 ug/l

RT: 7.94 min Scan# 990

Delta R.T. -0.13 min

Lab File: VW009617.D

Acq: 31 Mar 2019 18:09

Instrument :

MSVOA_W

ClientSampled :

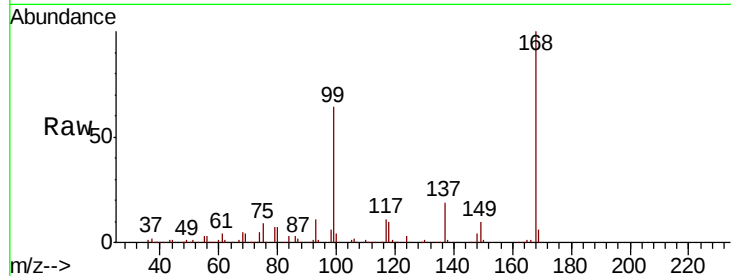
Tot Ion:117 Resp: 27237

Ion Ratio Lower Upper

117 100

119 5.1 75.4 113.0#

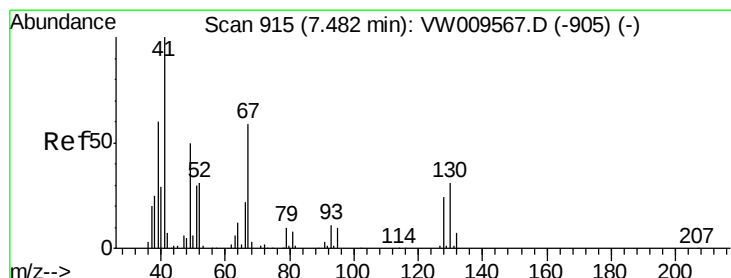
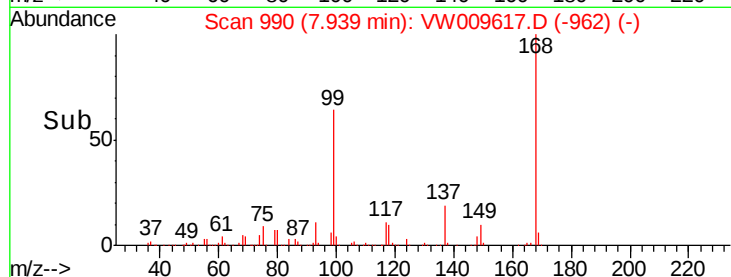
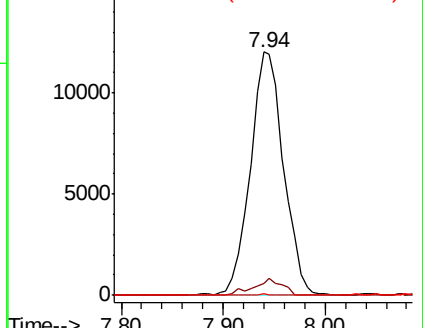
121 0.7 24.9 37.3#



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: 4.119 ug/l

RT: 7.45 min Scan# 910

Delta R.T. -0.03 min

Lab File: VW009617.D

Acq: 31 Mar 2019 18:09

Tgt Ion: 41 Resp: 292

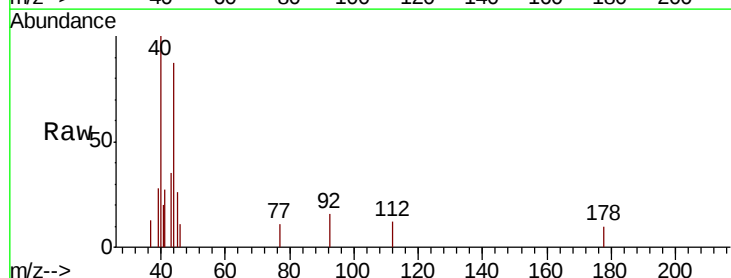
Ion Ratio Lower Upper

41 100

39 0.0 52.5 78.7#

67 0.0 56.6 84.8#

52 43.8 27.2 40.8#

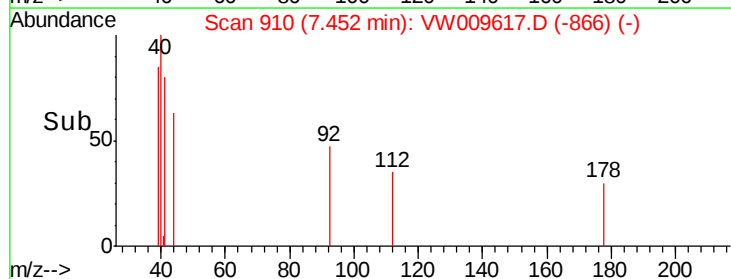
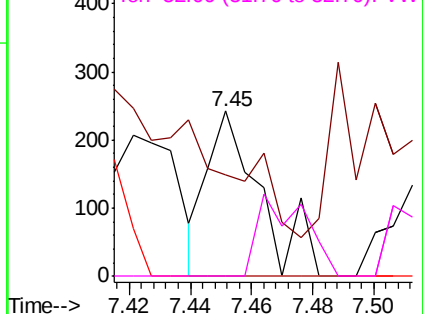


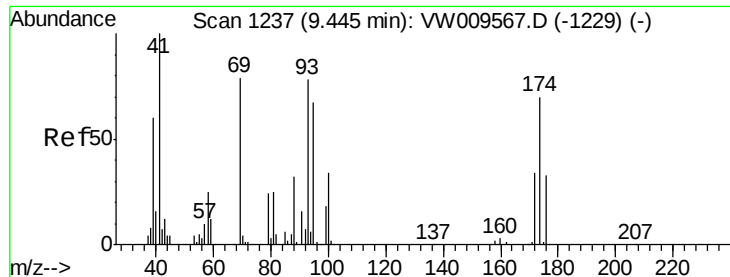
Abundance Ion 41.00 (40.70 to 41.70): VW

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





#49

1,4-Dioxane

Concen: 1.300 ug/l

RT: 9.38 min Scan# 1226

Delta R.T. -0.07 min

Lab File: VW009617.D

Acq: 31 Mar 2019 18:09

Instrument :
MSVOA_W
ClientSampled :

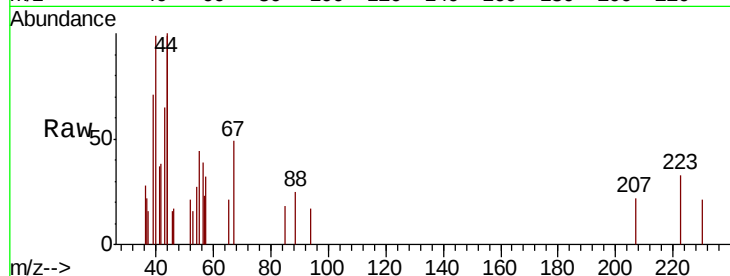
Tot Ion: 88 Resp: 32

Ion Ratio Lower Upper

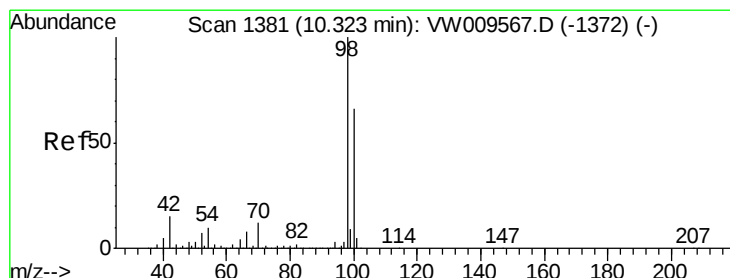
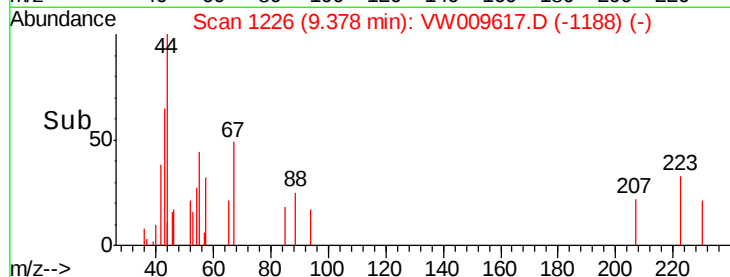
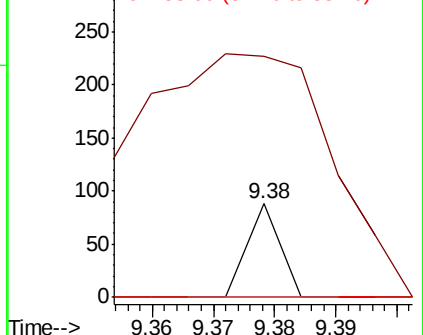
88 100

43 1412.5 29.7 44.5#

58 0.0 58.1 87.1#



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: 19.101 ug/l

RT: 10.32 min Scan# 1381

Delta R.T. 0.00 min

Lab File: VW009617.D

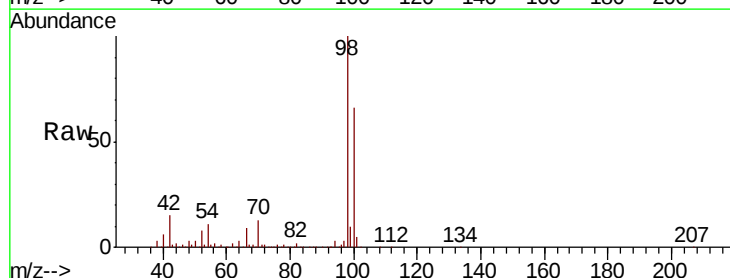
Acq: 31 Mar 2019 18:09

Tgt Ion: 98 Resp: 188601

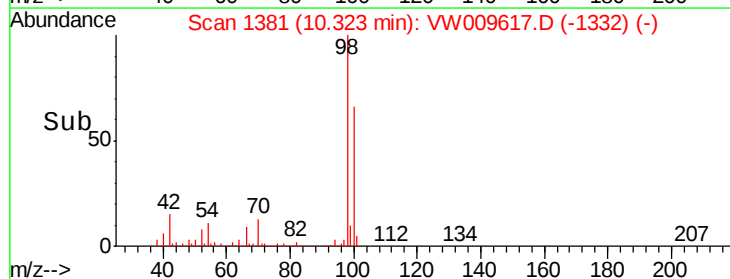
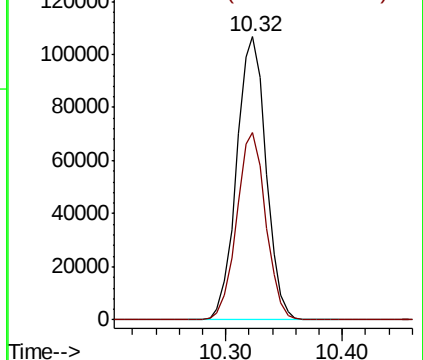
Ion Ratio Lower Upper

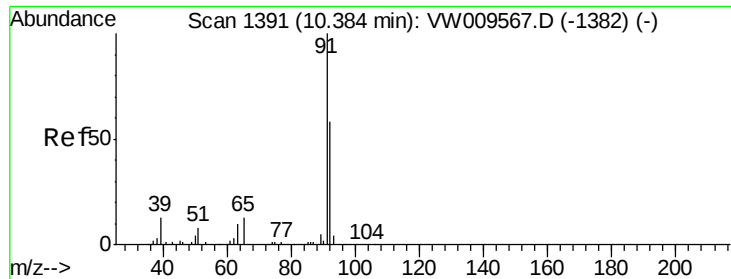
98 100

100 65.3 52.6 79.0



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





#52

Toluene

Concen: 2.350 ug/l

RT: 10.39 min Scan# 1392

Delta R.T. 0.01 min

Lab File: VW009617.D

Acq: 31 Mar 2019 18:09

Instrument :

MSVOA_W

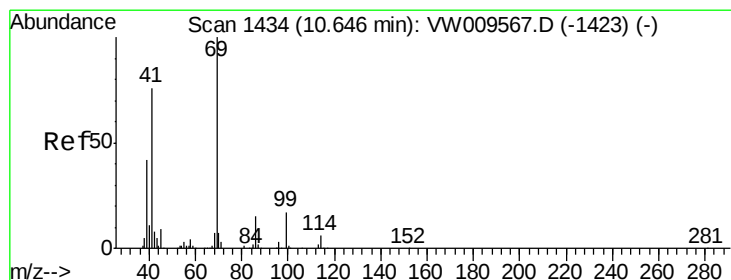
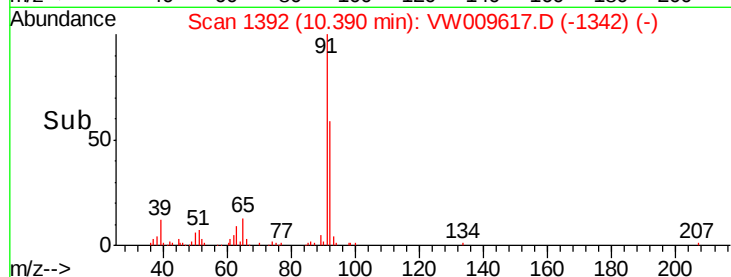
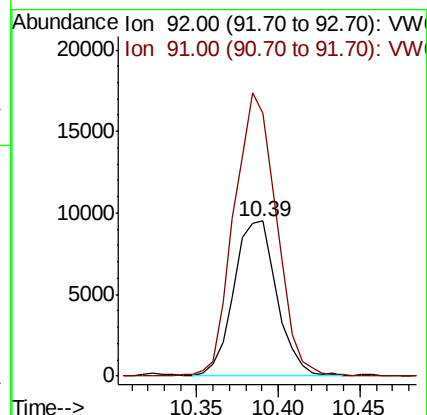
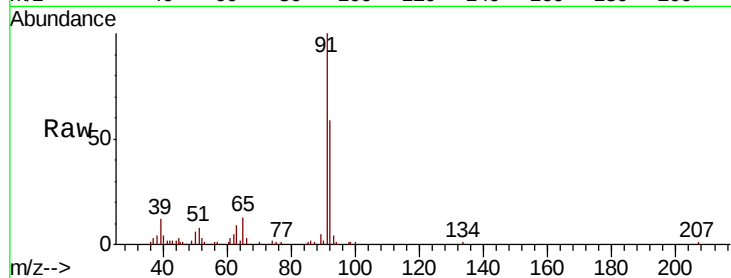
ClientSampled :

Tot Ion: 92 Resp: 17535

Ion Ratio Lower Upper

92 100

91 179.6 140.1 210.1



#56

Ethyl methacrylate

Concen: 3.804 ug/l

RT: 10.65 min Scan# 1435

Delta R.T. 0.01 min

Lab File: VW009617.D

Acq: 31 Mar 2019 18:09

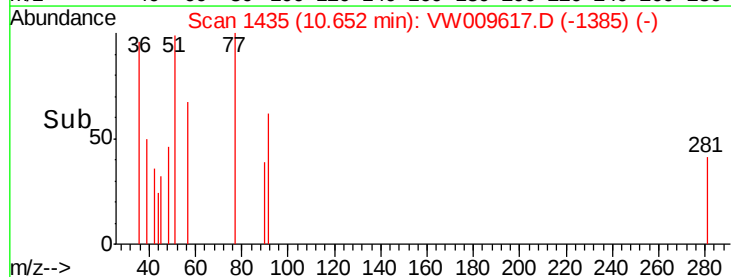
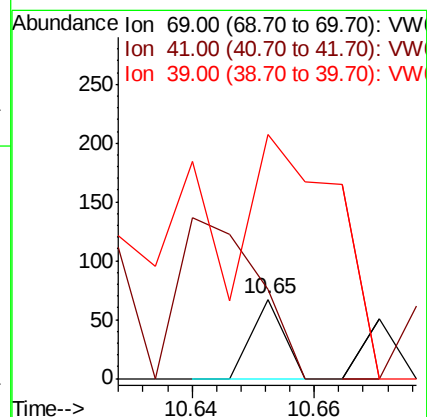
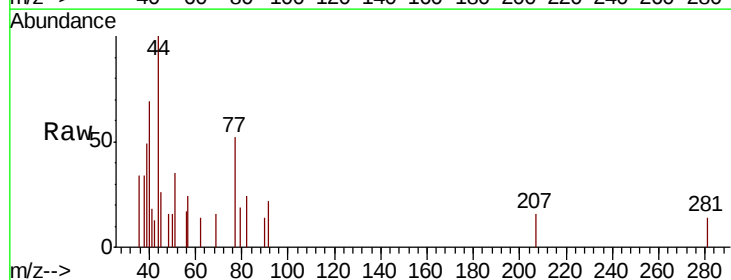
Tgt Ion: 69 Resp: 25

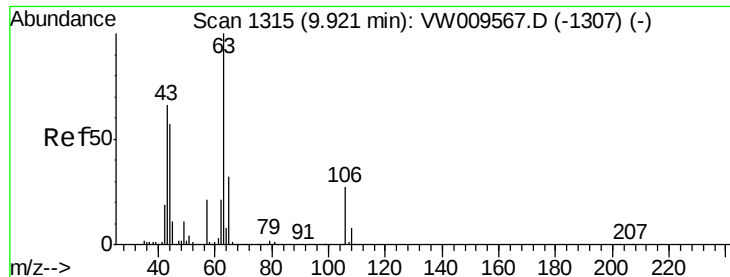
Ion Ratio Lower Upper

69 100

41 0.0 59.3 88.9#

39 788.0 36.2 54.2#

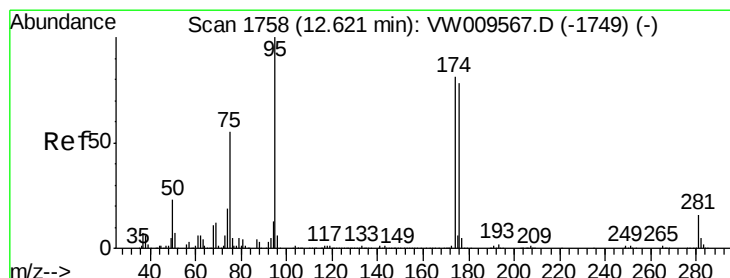
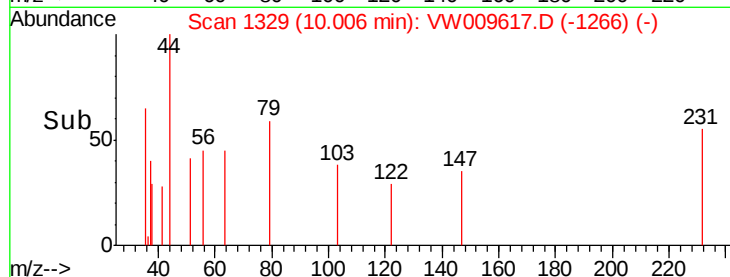
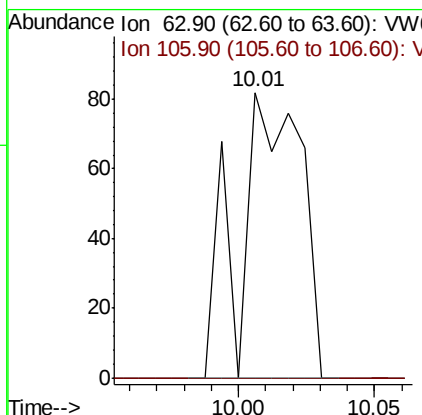
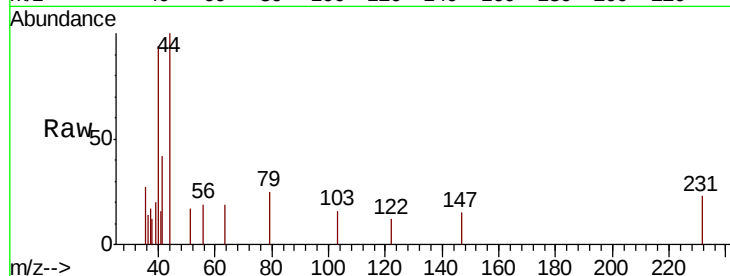




#58
 2-Chloroethyl Vinyl ether
 Concen: 17.099 ug/l
 RT: 10.01 min Scan# 1329
 Delta R.T. 0.09 min
 Lab File: VW009617.D
 Acq: 31 Mar 2019 18:09

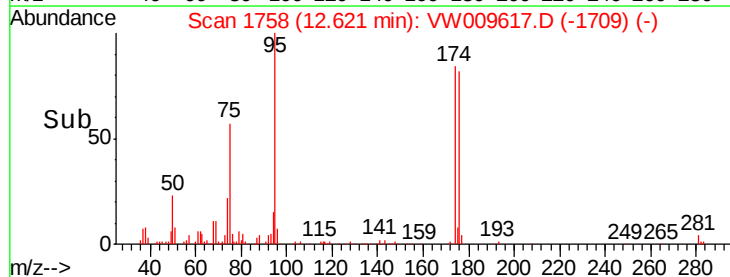
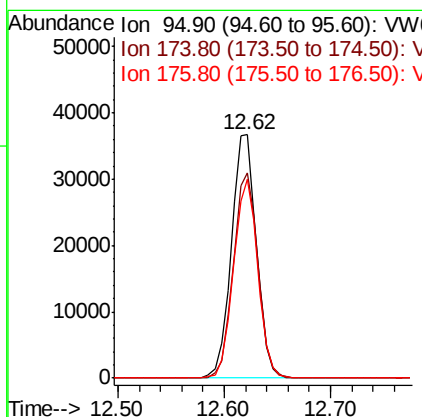
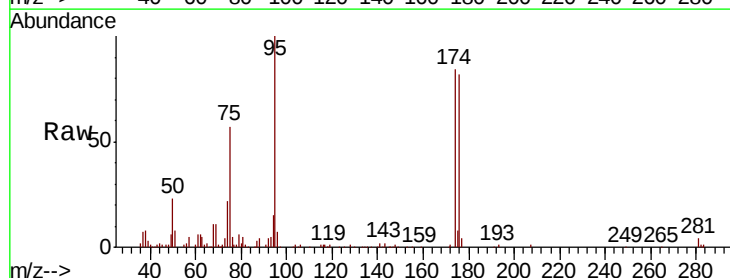
Instrument :
 MSVOA_W
 ClientSampled :

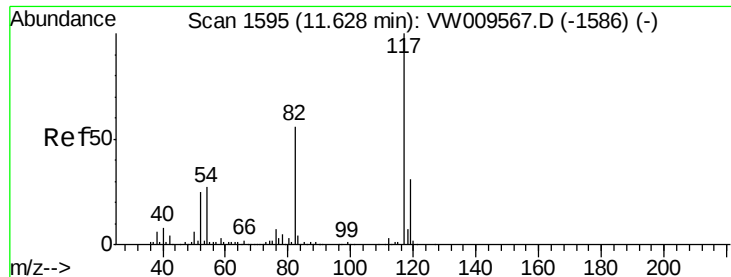
Tot Ion: 63 Resp: 131
 Ion Ratio Lower Upper
 63 100
 106 0.0 22.9 34.3#



#62
 4-Bromofluorobenzene
 Concen: 16.490 ug/l
 RT: 12.62 min Scan# 1758
 Delta R.T. 0.00 min
 Lab File: VW009617.D
 Acq: 31 Mar 2019 18:09

Tgt Ion: 95 Resp: 60743
 Ion Ratio Lower Upper
 95 100
 174 82.8 0.0 168.4
 176 79.0 0.0 161.6

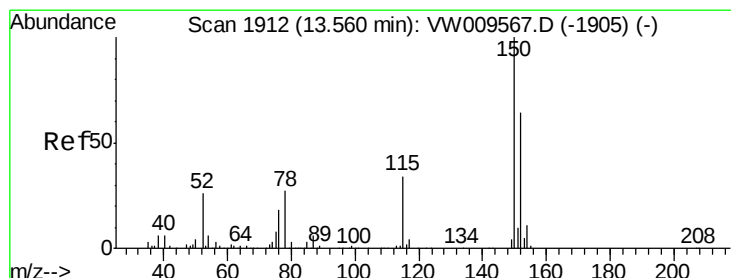
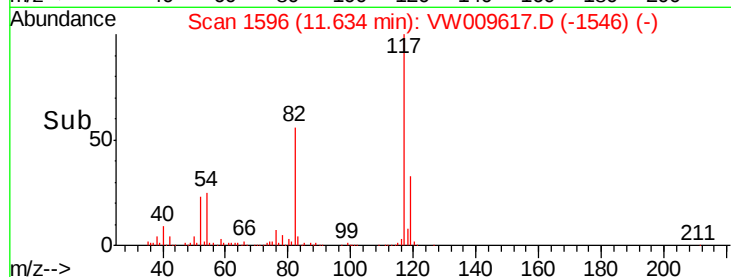
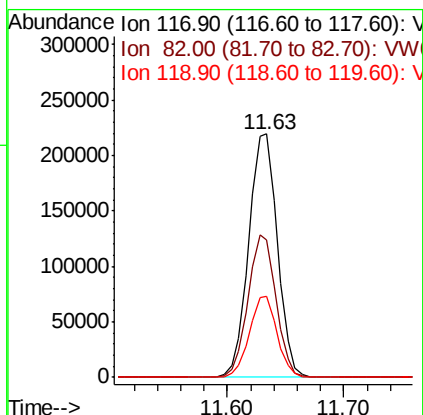
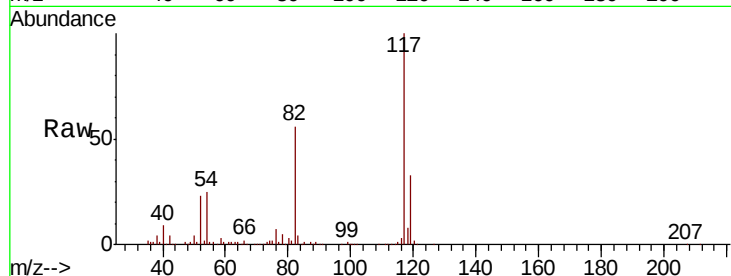




#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.63 min Scan# 1596
Delta R.T. 0.01 min
Lab File: VW009617.D
Acq: 31 Mar 2019 18:09

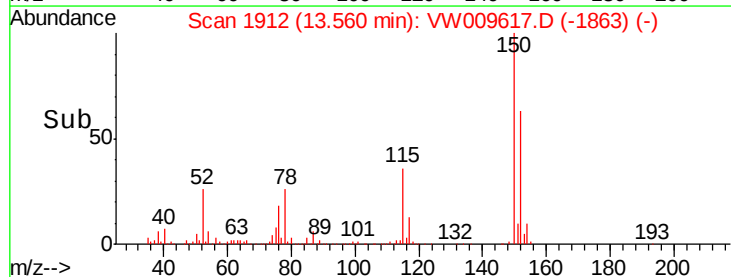
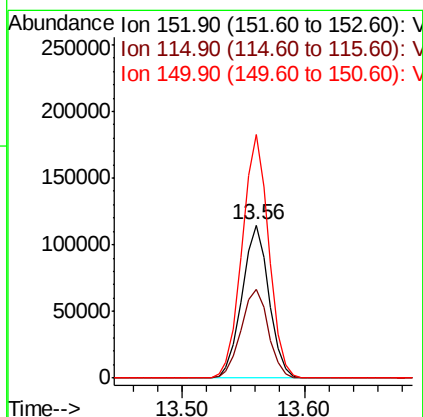
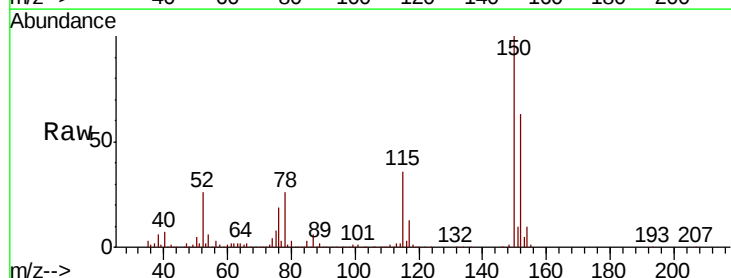
Instrument :
MSVOA_W
ClientSampleId :

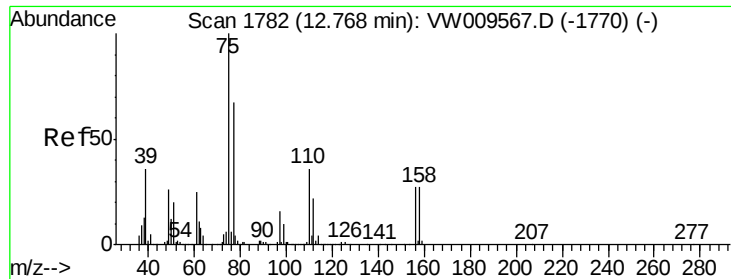
Tot Ion:117 Resp: 378403
Ion Ratio Lower Upper
117 100
82 56.3 43.6 65.4
119 33.4 26.0 39.0



#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 13.56 min Scan# 1912
Delta R.T. 0.00 min
Lab File: VW009617.D
Acq: 31 Mar 2019 18:09

Tgt Ion:152 Resp: 174330
Ion Ratio Lower Upper
152 100
115 58.8 29.6 88.8
150 158.1 0.0 349.2

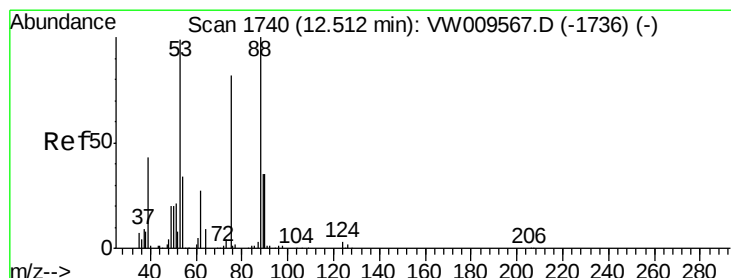
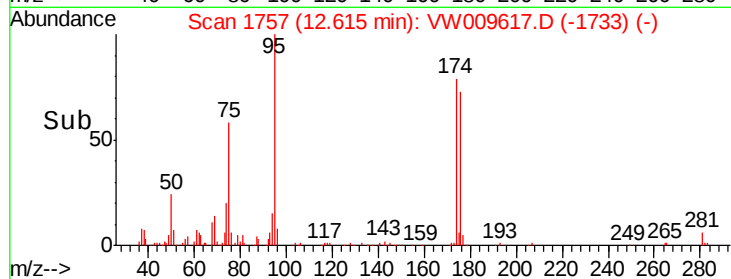
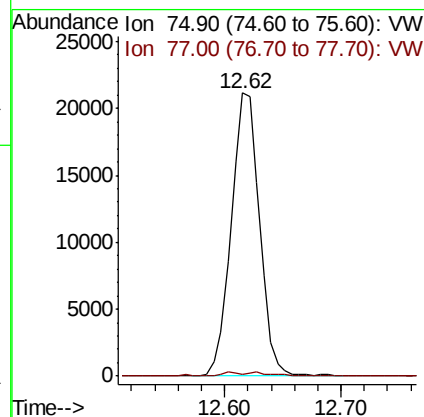
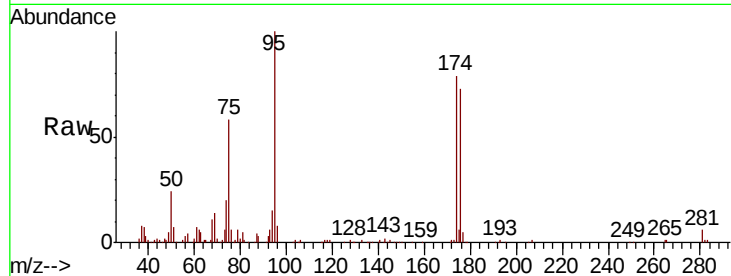




#76
 1,2,3-Trichloropropane
 Concen: 21.772 ug/l
 RT: 12.62 min Scan# 1757
 Delta R.T. -0.15 min
 Lab File: VW009617.D
 Acq: 31 Mar 2019 18:09

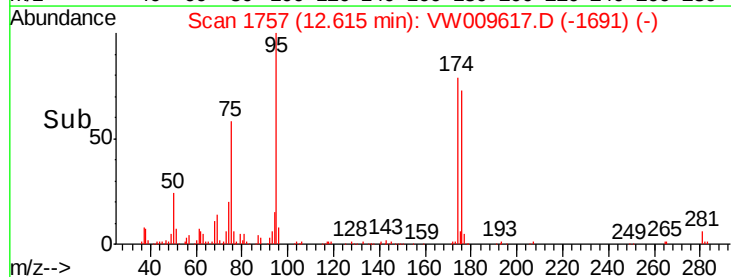
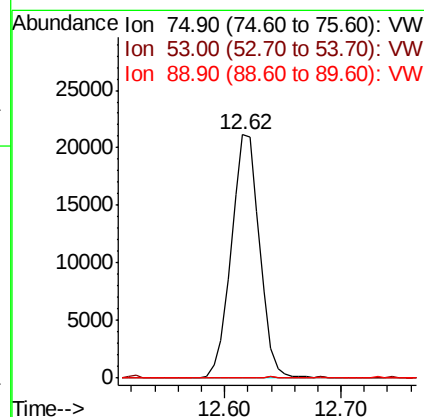
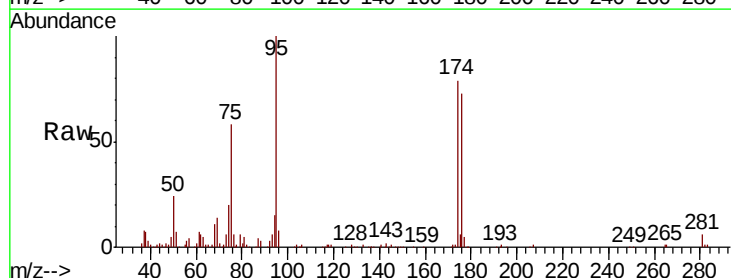
Instrument :
 MSVOA_W
 ClientSampleId :

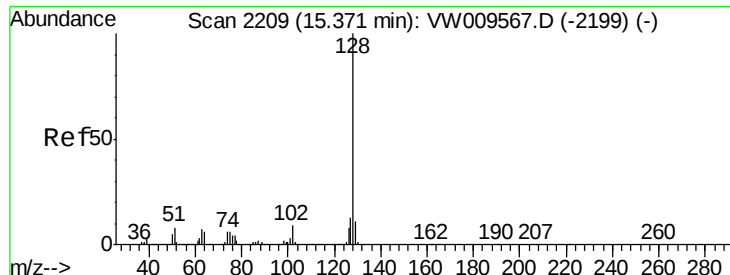
Tot Ion: 75 Resp: 35692
 Ion Ratio Lower Upper
 75 100
 77 1.2 0.0 0.0#



#81
 trans-1,4-Dichloro-2-butene
 Concen: 50.629 ug/l
 RT: 12.62 min Scan# 1757
 Delta R.T. 0.10 min
 Lab File: VW009617.D
 Acq: 31 Mar 2019 18:09

Tgt Ion: 75 Resp: 35692
 Ion Ratio Lower Upper
 75 100
 53 0.0 86.7 130.1#
 89 0.0 36.4 54.6#

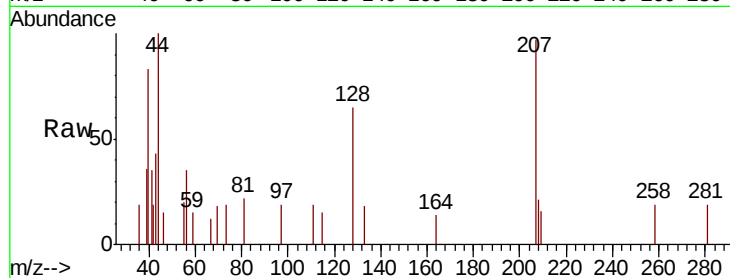




#95
Naphthalene
Concen: 2.799 ug/l
RT: 15.37 min Scan# 2209
Delta R.T. 0.00 min
Lab File: VW009617.D
Acq: 31 Mar 2019 18:09

Instrument :
MSVOA_W
ClientSampleId :

Tot Ion	Ratio	Lower	Upper
128	100		
127	0.0	10.8	16.2#
129	0.0	8.7	13.1#



Abundance Ion 128.00 (127.70 to 128.70): V
Ion 127.00 (126.70 to 127.70): V
Ion 129.00 (128.70 to 129.70): V

