

Data Path : Z:\VOASRV\HPCHEM1\MSVOA W\DATA\VW031919\
 Data File : VW009269.D
 Acq On : 20 Mar 2019 06:00
 Operator : SY/VA
 Sample : K1984-06
 Misc : 5.46G/5ML/MSVOA W/SOIL
 ALS Vial : 44 Sample Multiplier: 1

Instrument :
 MSVOA_W
 ClientSampleId :
 SB-13(13.5-14.5)

Quant Time: Mar 20 08:23:20 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_W\METHOD\82W031919S.M
 Quant Title : SW846 8260
 QLast Update : Wed Mar 20 07:22:50 2019
 Response via : Initial Calibration

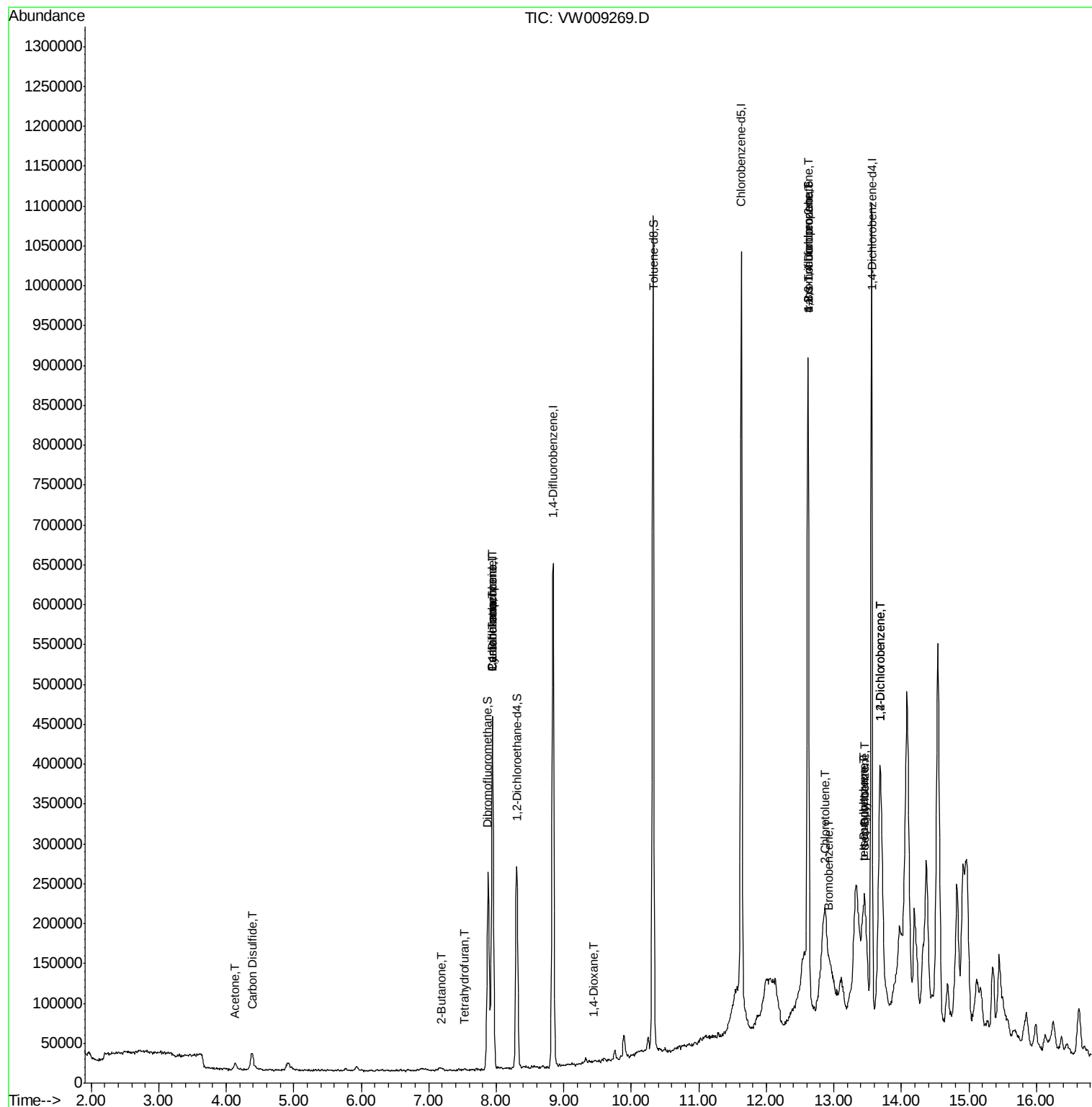
Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	7.95	168	313408	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	8.84	114	514704	50.00	ug/l	0.00
63) Chlorobenzene-d5	11.63	117	492315	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.56	152	245608	50.00	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	8.30	65	202986	60.89	ug/l	0.00
Spiked Amount	50.000		Recovery	=	121.78%	
35) Dibromofluoromethane	7.88	113	169036	51.77	ug/l	0.00
Spiked Amount	50.000		Recovery	=	103.54%	
50) Toluene-d8	10.32	98	648726	54.67	ug/l	0.00
Spiked Amount	50.000		Recovery	=	109.34%	
62) 4-Bromofluorobenzene	12.62	95	267813	61.47	ug/l	0.00
Spiked Amount	50.000		Recovery	=	122.94%	
Target Compounds						
					Qvalue	
2) Dichlorodifluoromethane	2.01	85	391	Below Cal		85
16) Acetone	4.14	43	13986	20.449	ug/l	97
17) Carbon Disulfide	4.38	76	48244	5.786	ug/l #	91
20) Methylene Chloride	4.93	84	5633	Below Cal	#	77
25) 2-Butanone	7.18	43	3543	3.615	ug/l	95
29) Tetrahydrofuran	7.53	42	994	1.596	ug/l #	64
31) Cyclohexane	7.94	56	9776	1.787	ug/l #	59
36) 1,1-Dichloropropene	7.95	75	25215	4.923	ug/l #	53
38) Carbon Tetrachloride	7.95	117	32039	5.911	ug/l #	18
49) 1,4-Dioxane	9.43	88	33	1.096	ug/l #	69
76) 1,2,3-Trichloropropane	12.62	75	136262	59.038	ug/l #	100
77) Bromobenzene	12.92	156	24406	6.276	ug/l #	1
79) 2-Chlorotoluene	12.86	91	19095	1.667	ug/l #	43
81) trans-1,4-Dichloro-2-buten	12.62	75	136262	144.862	ug/l #	7
83) tert-Butylbenzene	13.44	119	19989	1.675	ug/l	92
85) sec-Butylbenzene	13.45	105	24649	1.398	ug/l	97
86) p-Isopropyltoluene	13.44	119	19989	1.273	ug/l #	1
88) 1,4-Dichlorobenzene	13.69	146	17818	2.224	ug/l #	28
91) 1,2-Dichlorobenzene	13.69	146	17818	2.469	ug/l #	28

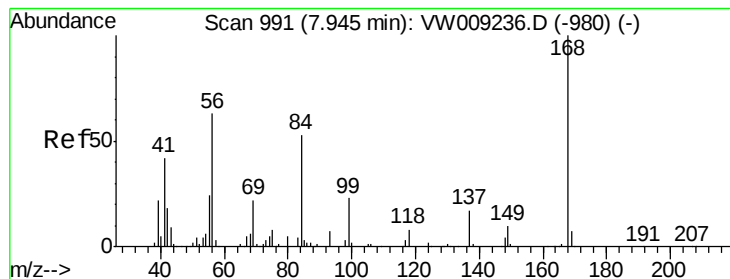
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 7.95 min Scan# 991

Delta R.T. -0.00 min

Lab File: VW009269.D

Acq: 20 Mar 2019 06:00

Instrument :

MSVOA_W

ClientSampleId :

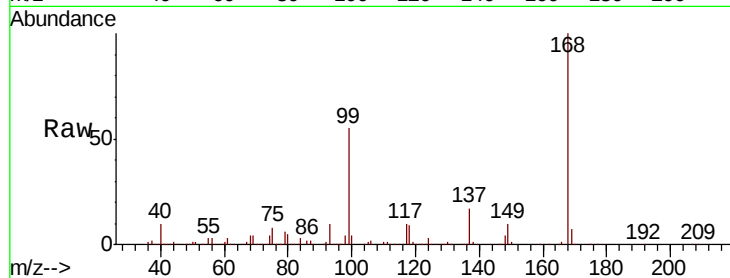
SB-13(13.5-14.5)

Tot Ion:168 Resp: 313408

Ion Ratio Lower Upper

168 100

99 55.0 45.4 68.0



Abundance Ion 167.90 (167.60 to 168.60): VW

Ion 98.90 (98.60 to 99.60): VW

7.95

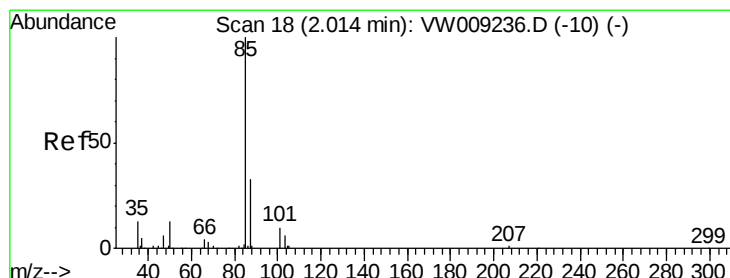
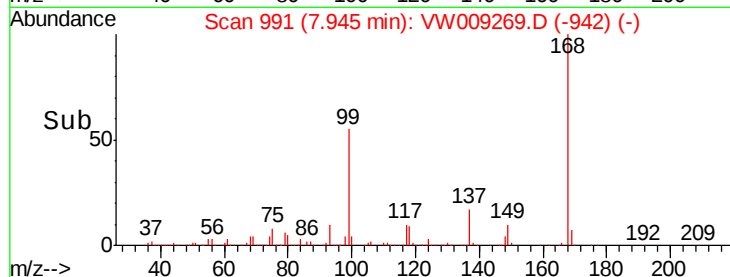
150000

100000

50000

0

Time--> 7.80 7.90 8.00 8.10



#2

Dichlorodifluoromethane

Concen: Below Cal

RT: 2.01 min Scan# 17

Delta R.T. -0.01 min

Lab File: VW009269.D

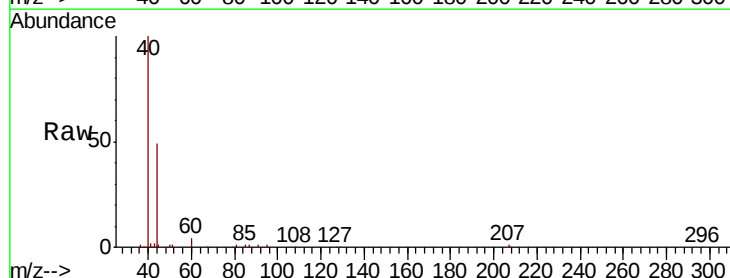
Acq: 20 Mar 2019 06:00

Tgt Ion: 85 Resp: 391

Ion Ratio Lower Upper

85 100

87 41.7 16.7 50.1



Abundance Ion 84.90 (84.60 to 85.60): VW

Ion 86.90 (86.60 to 87.60): VW

2.01

300

250

200

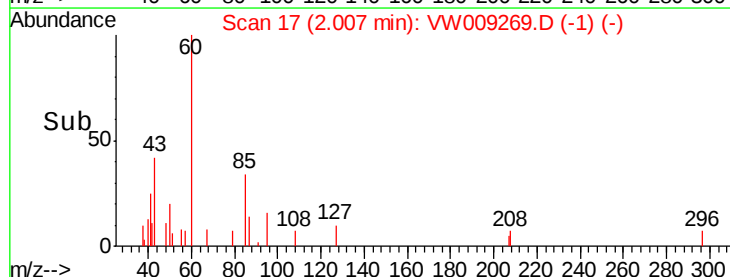
150

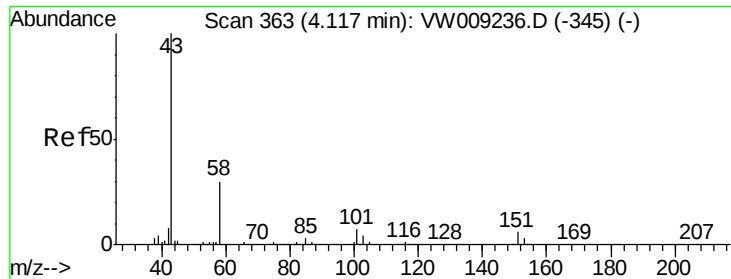
100

50

0

Time--> 1.96 1.98 2.00 2.02 2.04





#16

Acetone

Concen: 20.449 ug/l

RT: 4.14 min Scan# 366

Delta R.T. 0.02 min

Lab File: VW009269.D

Acq: 20 Mar 2019 06:00

Instrument :

MSVOA_W

ClientSampled :

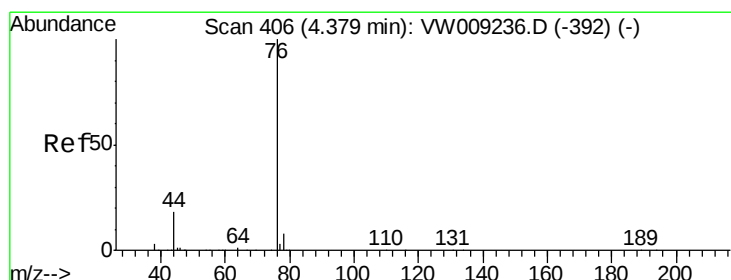
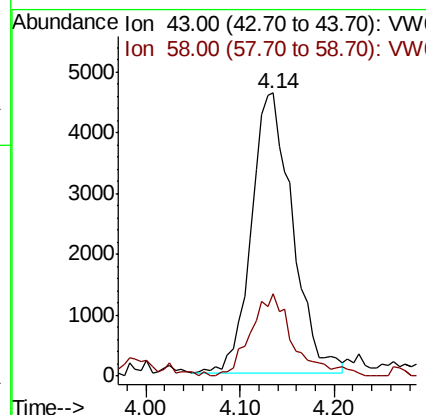
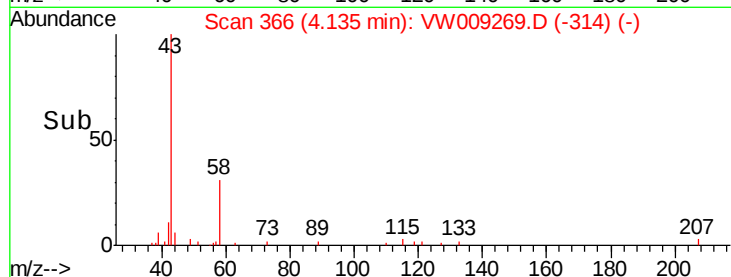
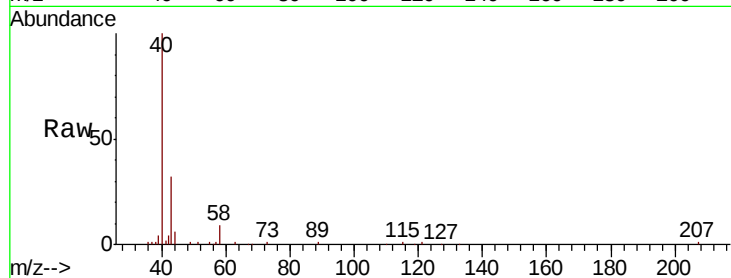
SB-13(13.5-14.5)

Tot Ion: 43 Resp: 13986

Ion Ratio Lower Upper

43 100

58 28.0 23.6 35.4



#17

Carbon Disulfide

Concen: 5.786 ug/l

RT: 4.38 min Scan# 406

Delta R.T. 0.00 min

Lab File: VW009269.D

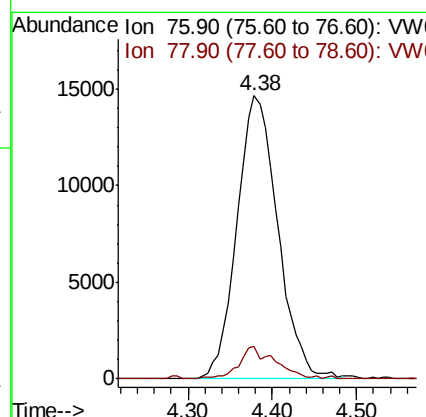
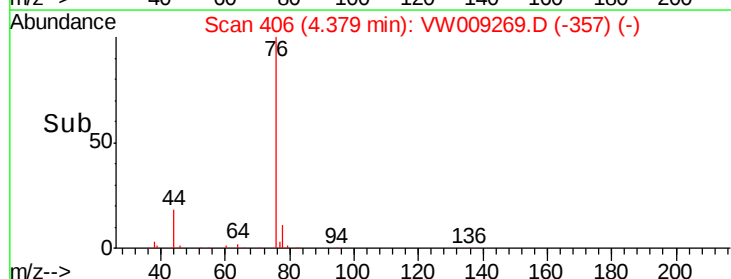
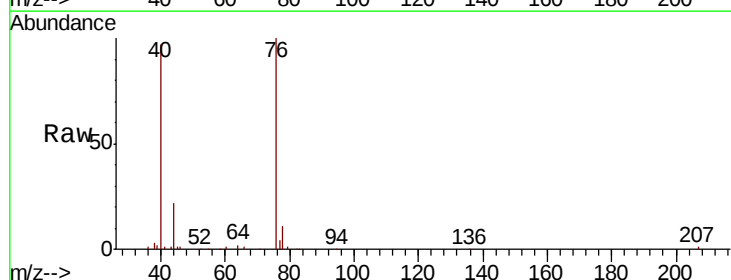
Acq: 20 Mar 2019 06:00

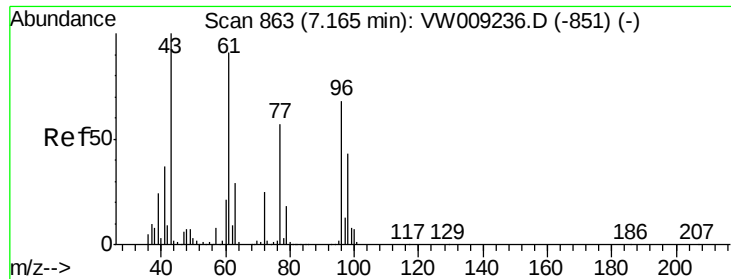
Tgt Ion: 76 Resp: 48244

Ion Ratio Lower Upper

76 100

78 11.4 6.6 9.8#





#25

2-Butanone

Concen: 3.615 ug/l

RT: 7.18 min Scan# 866

Delta R.T. 0.02 min

Lab File: VW009269.D

Acq: 20 Mar 2019 06:00

Instrument :

MSVOA_W

ClientSampleId :

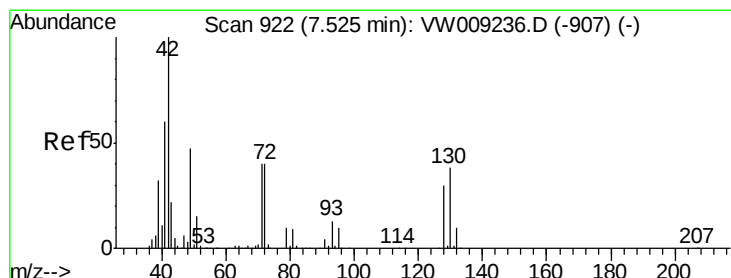
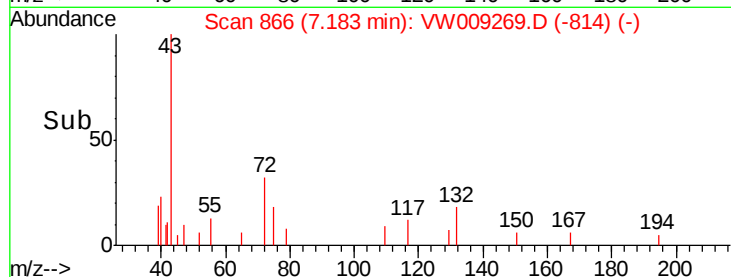
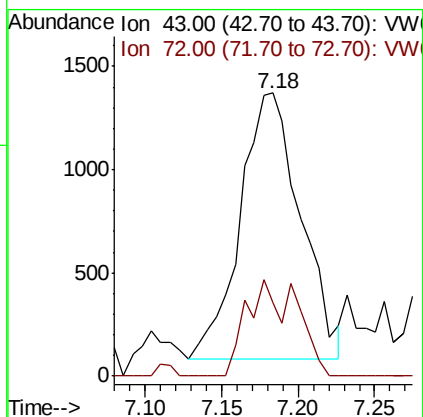
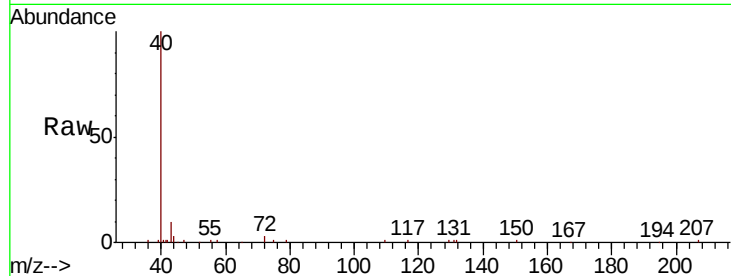
SB-13(13.5-14.5)

Tot Ion: 43 Resp: 3543

Ion Ratio Lower Upper

43 100

72 27.6 20.0 30.0



#29

Tetrahydrofuran

Concen: 1.596 ug/l

RT: 7.53 min Scan# 923

Delta R.T. 0.01 min

Lab File: VW009269.D

Acq: 20 Mar 2019 06:00

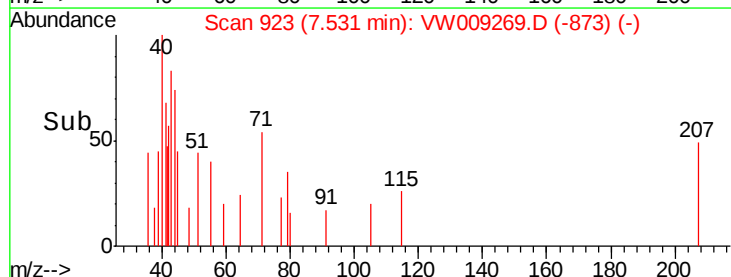
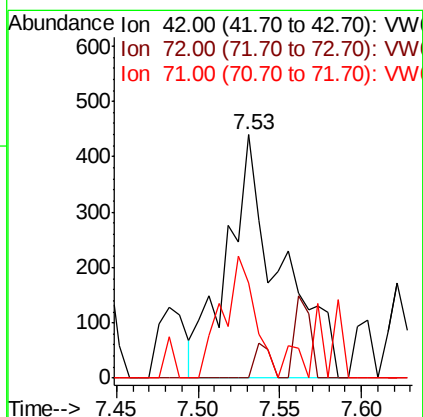
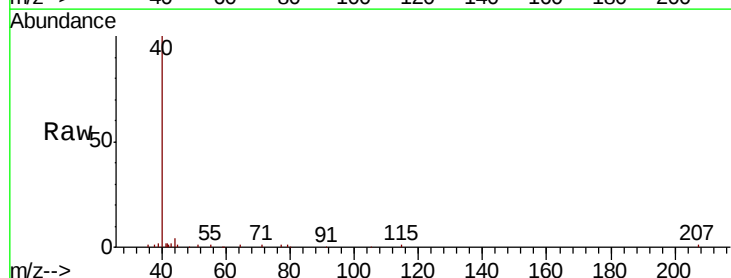
Tgt Ion: 42 Resp: 994

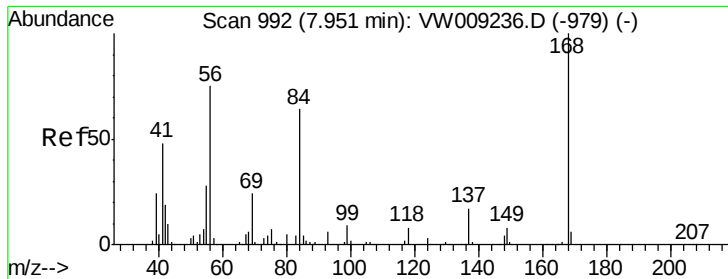
Ion Ratio Lower Upper

42 100

72 4.2 32.4 48.6#

71 30.6 30.1 45.1





#31

Cyclohexane

Concen: 1.787 ug/l

RT: 7.94 min Scan# 990

Delta R.T. -0.01 min

Lab File: VW009269.D

Acq: 20 Mar 2019 06:00

Instrument :

MSVOA_W

ClientSampleId :

SB-13(13.5-14.5)

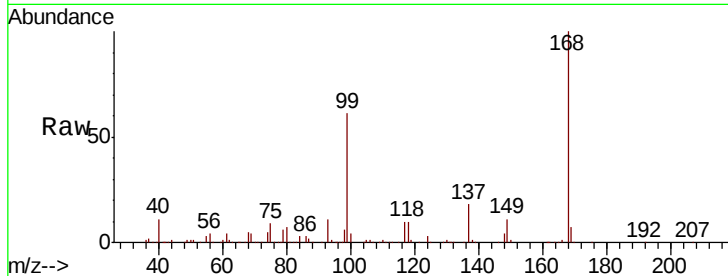
Tot Ion: 56 Resp: 9776

Ion Ratio Lower Upper

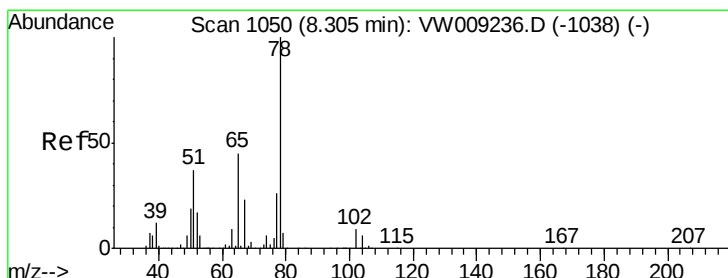
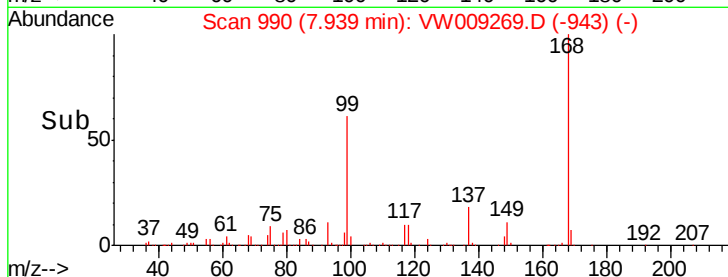
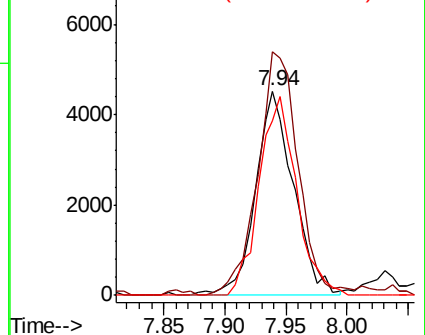
56 100

69 117.2 26.1 39.1#

84 85.8 68.6 103.0



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: 60.890 ug/l

RT: 8.30 min Scan# 1049

Delta R.T. -0.01 min

Lab File: VW009269.D

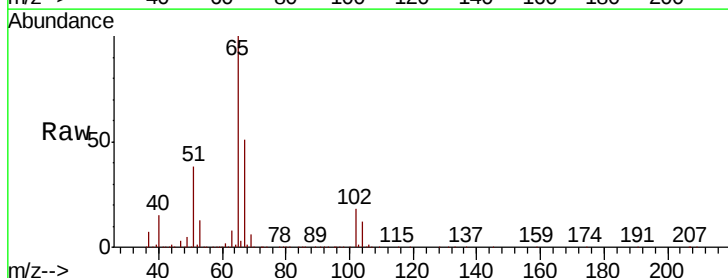
Acq: 20 Mar 2019 06:00

Tgt Ion: 65 Resp: 202986

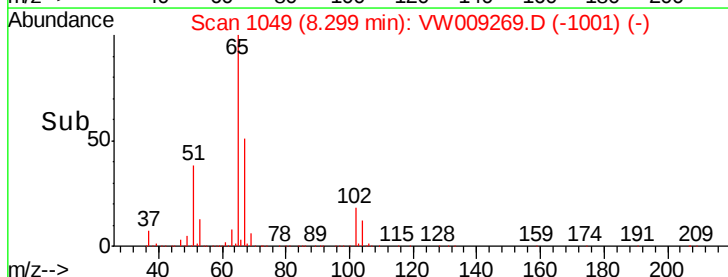
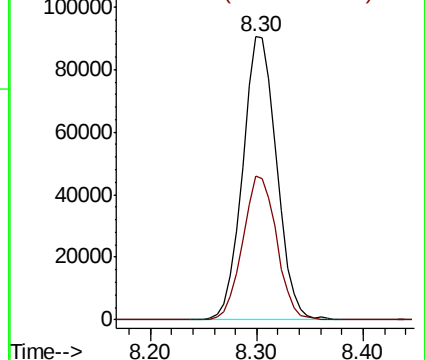
Ion Ratio Lower Upper

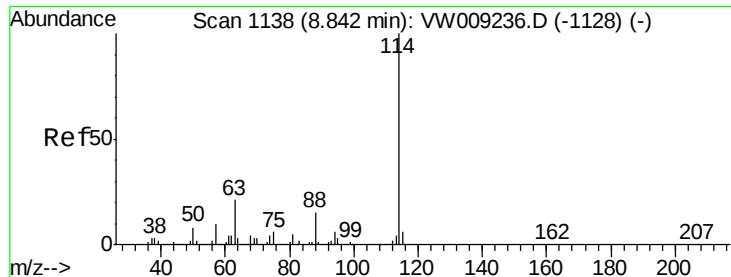
65 100

67 50.8 0.0 102.4



Abundance Ion 64.90 (64.60 to 65.60): VW
Ion 66.90 (66.60 to 67.60): VW

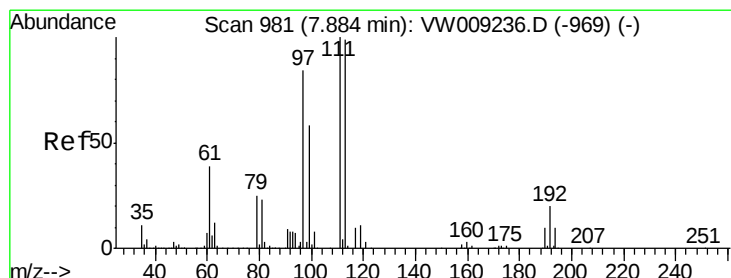
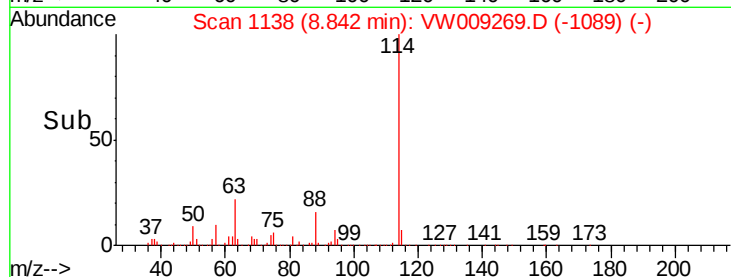
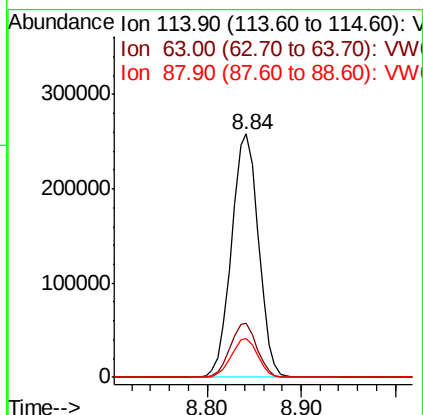
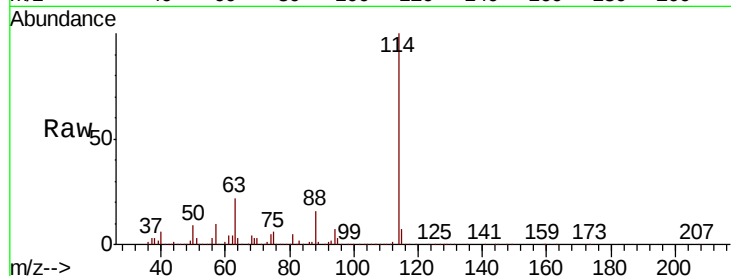




#34
 1,4-Difluorobenzene
 Concen: 50.000 ug/l
 RT: 8.84 min Scan# 1138
 Delta R.T. -0.00 min
 Lab File: VW009269.D
 Acq: 20 Mar 2019 06:00

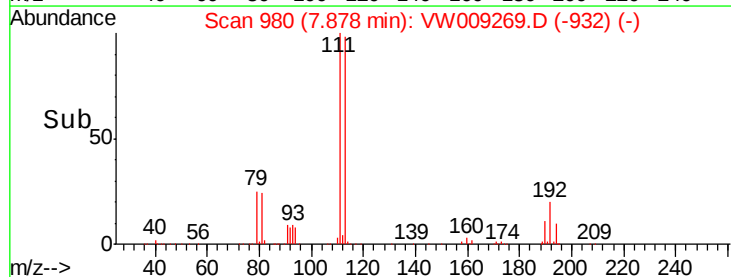
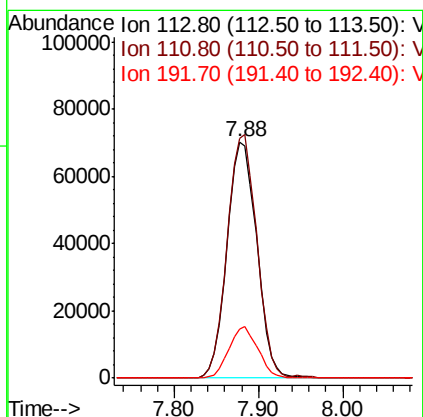
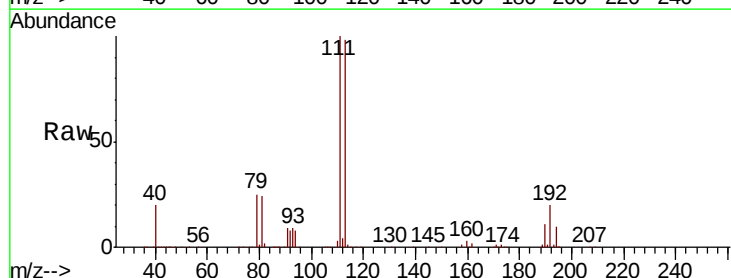
Instrument :
 MSVOA_W
 ClientSampleId :
 SB-13(13.5-14.5)

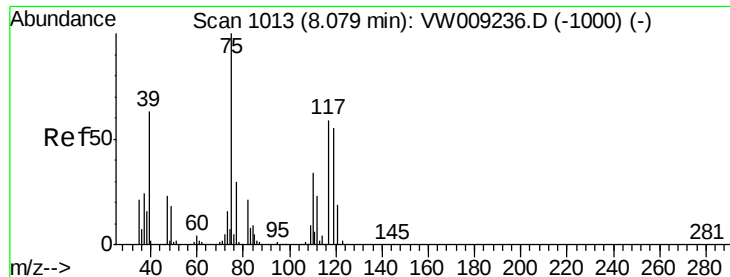
Tot Ion	Ratio	Lower	Upper
114	100		
63	22.2	0.0	42.2
88	16.0	0.0	30.8



#35
 Dibromofluoromethane
 Concen: 51.772 ug/l
 RT: 7.88 min Scan# 980
 Delta R.T. -0.01 min
 Lab File: VW009269.D
 Acq: 20 Mar 2019 06:00

Tgt Ion	Ratio	Lower	Upper
113	100		
111	102.6	82.6	124.0
192	21.0	16.4	24.6





#36

1,1-Dichloropropene

Concen: 4.923 ug/l

RT: 7.95 min Scan# 991

Delta R.T. -0.13 min

Lab File: VW009269.D

Acq: 20 Mar 2019 06:00

Instrument :

MSVOA_W

ClientSampleId :

SB-13(13.5-14.5)

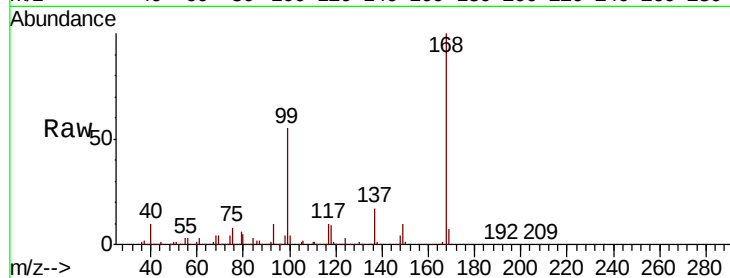
Tot Ion: 75 Resp: 25215

Ion Ratio Lower Upper

75 100

110 10.4 16.8 50.4#

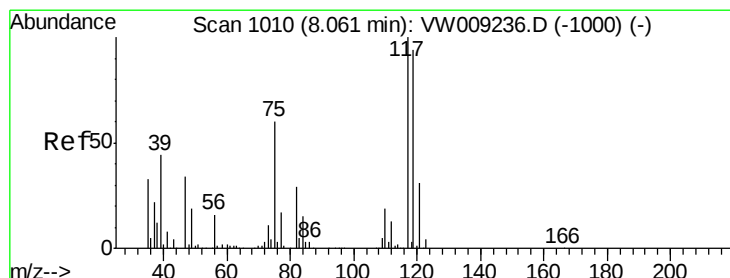
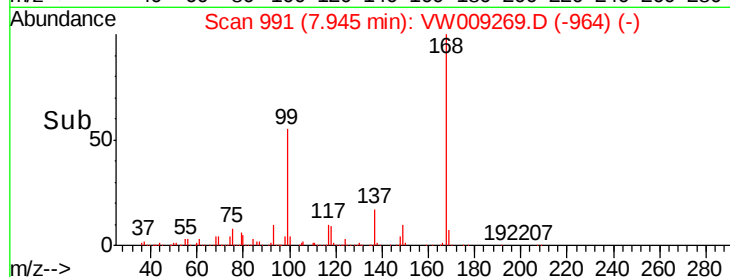
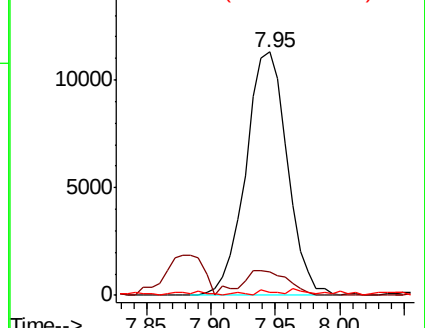
77 0.9 24.6 36.8#



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: 5.911 ug/l

RT: 7.95 min Scan# 991

Delta R.T. -0.12 min

Lab File: VW009269.D

Acq: 20 Mar 2019 06:00

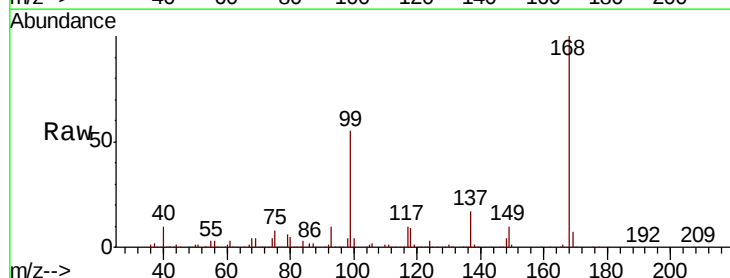
Tgt Ion:117 Resp: 32039

Ion Ratio Lower Upper

117 100

119 6.0 75.4 113.0#

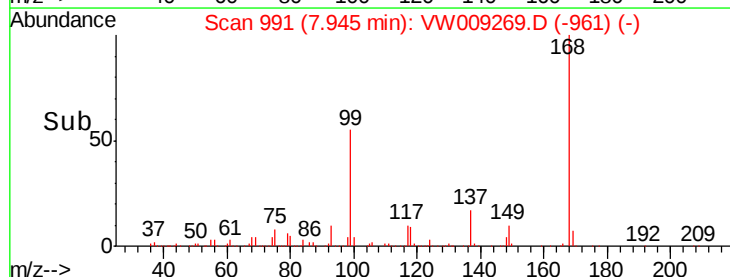
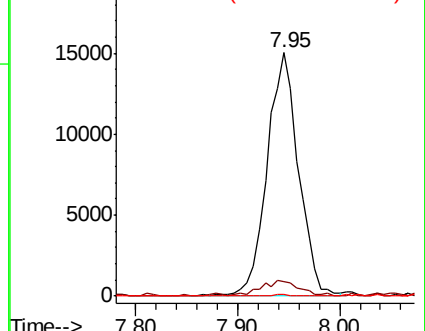
121 0.5 24.9 37.3#

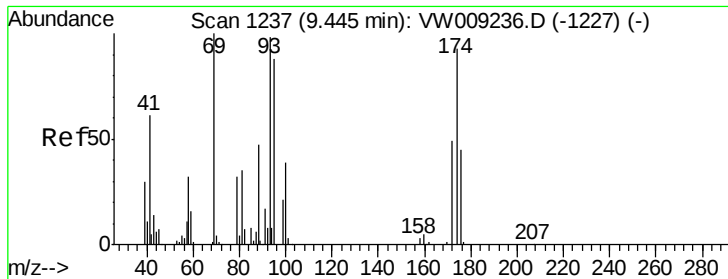


Abundance Ion 116.80 (116.50 to 117.50): V

Ion 118.80 (118.50 to 119.50): V

Ion 120.80 (120.50 to 121.50): V





#49

1,4-Dioxane

Concen: 1.096 ug/l

RT: 9.43 min Scan# 1235

Delta R.T. -0.01 min

Lab File: VW009269.D

Acq: 20 Mar 2019 06:00

Instrument :
MSVOA_W
ClientSampleId :
SB-13(13.5-14.5)

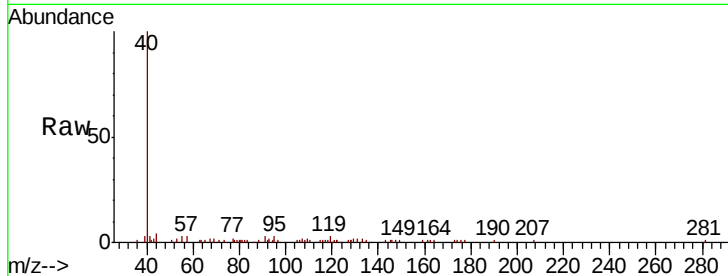
Tot Ion: 88 Resp: 33

Ion Ratio Lower Upper

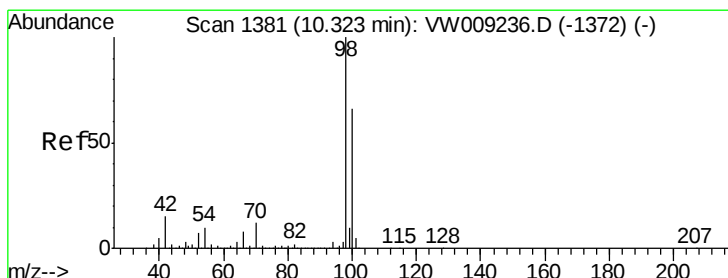
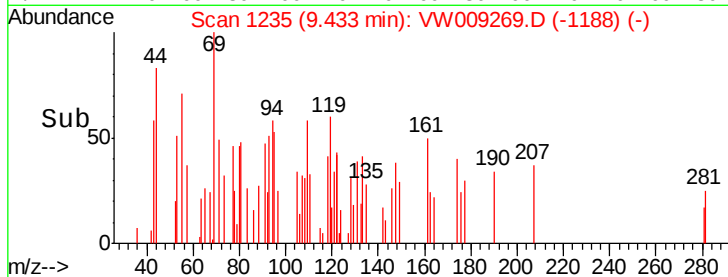
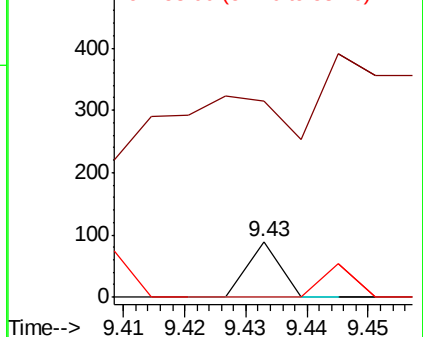
88 100

43 0.0 29.7 44.5#

58 60.6 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: 54.674 ug/l

RT: 10.32 min Scan# 1381

Delta R.T. -0.00 min

Lab File: VW009269.D

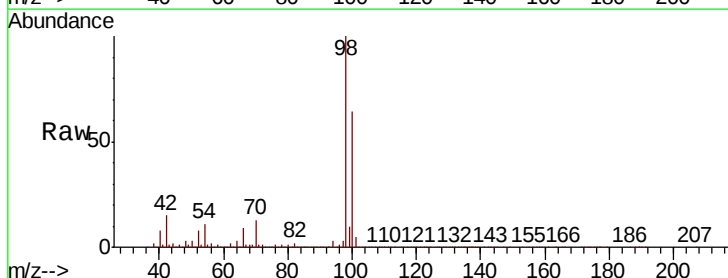
Acq: 20 Mar 2019 06:00

Tgt Ion: 98 Resp: 648726

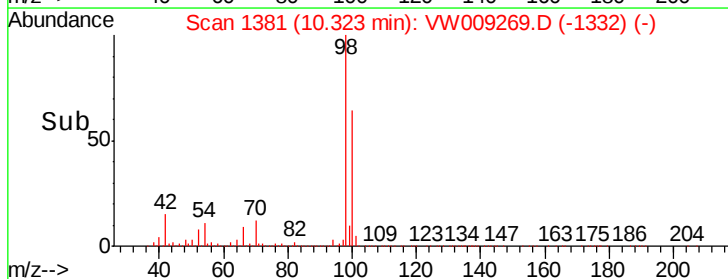
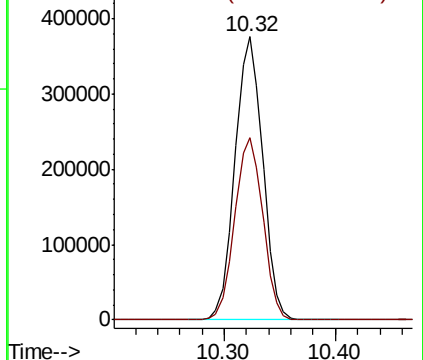
Ion Ratio Lower Upper

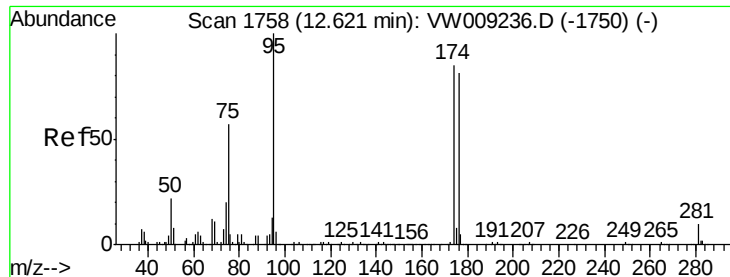
98 100

100 65.0 52.6 79.0



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





#62

4-Bromofluorobenzene

Concen: 61.474 ug/l

RT: 12.62 min Scan# 1758

Delta R.T. -0.00 min

Lab File: VW009269.D

Acq: 20 Mar 2019 06:00

Instrument :

MSVOA_W

ClientSampleId :

SB-13(13.5-14.5)

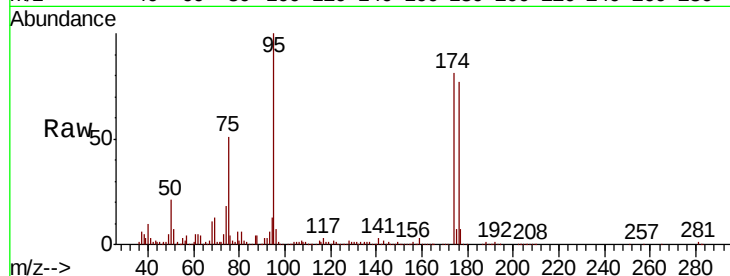
Tot Ion: 95 Resp: 267813

Ion Ratio Lower Upper

95 100

174 74.1 0.0 168.4

176 70.4 0.0 161.6

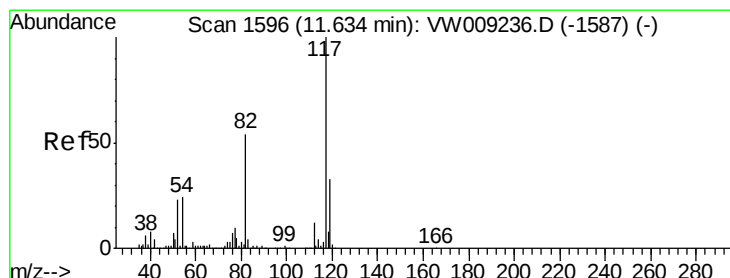
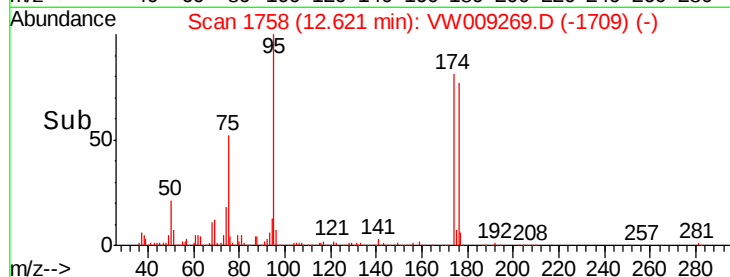
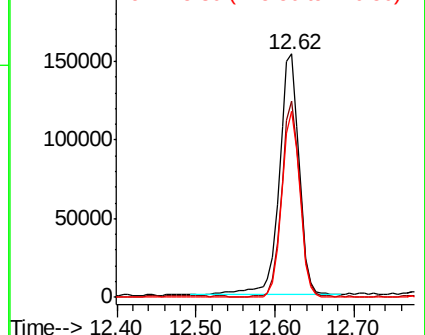


Abundance

Ion 94.90 (94.60 to 95.60): VW

Ion 173.80 (173.50 to 174.50): V

Ion 175.80 (175.50 to 176.50): V



#63

Chlorobenzene-d5

Concen: 50.000 ug/l

RT: 11.63 min Scan# 1596

Delta R.T. -0.00 min

Lab File: VW009269.D

Acq: 20 Mar 2019 06:00

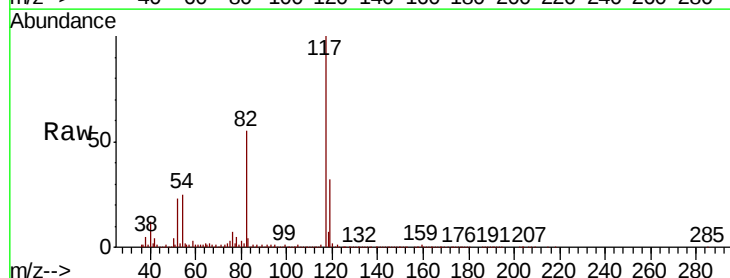
Tgt Ion: 117 Resp: 492315

Ion Ratio Lower Upper

117 100

82 55.1 43.6 65.4

119 31.7 26.0 39.0

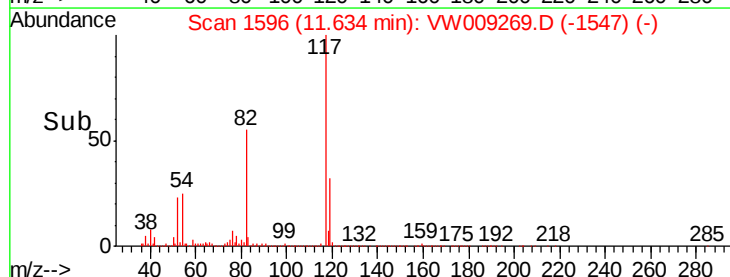
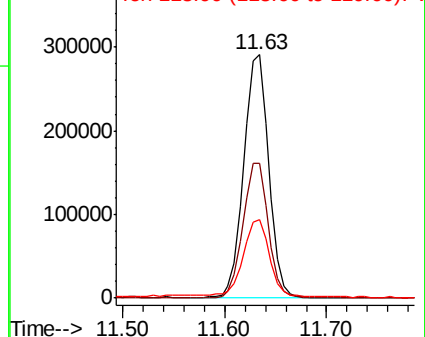


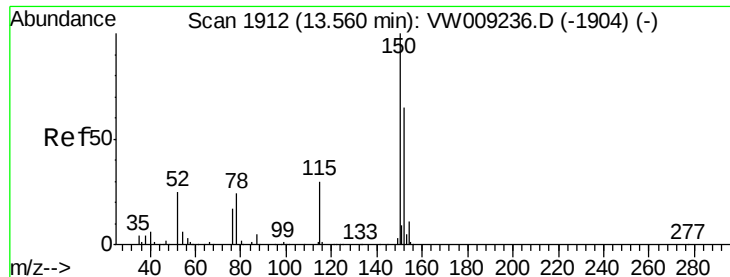
Abundance

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





#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

RT: 13.56 min Scan# 1912

Delta R.T. -0.00 min

Lab File: VW009269.D

Acq: 20 Mar 2019 06:00

Instrument :

MSVOA_W

ClientSampleId :

SB-13(13.5-14.5)

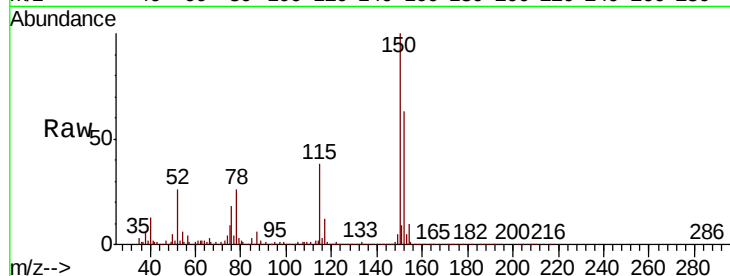
Tot Ion:152 Resp: 245608

Ion Ratio Lower Upper

152 100

115 59.4 29.6 88.8

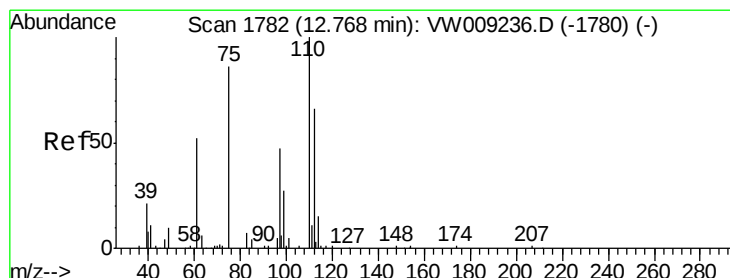
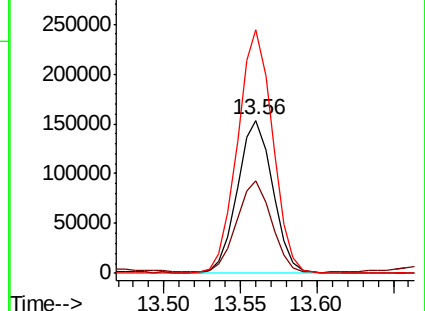
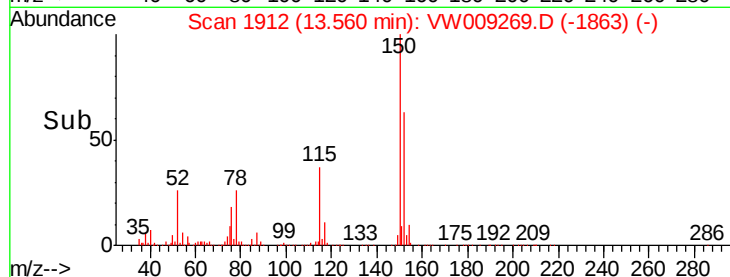
150 157.8 0.0 349.2



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: 59.038 ug/l

RT: 12.62 min Scan# 1757

Delta R.T. -0.15 min

Lab File: VW009269.D

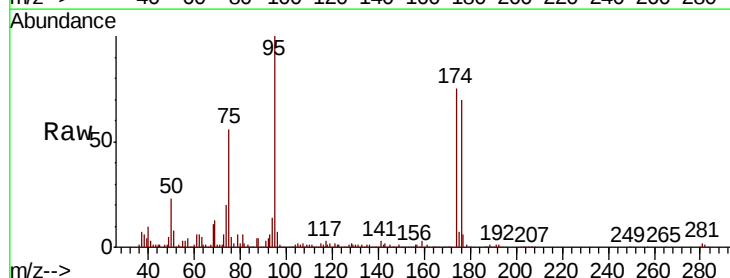
Acq: 20 Mar 2019 06:00

Tgt Ion: 75 Resp: 136262

Ion Ratio Lower Upper

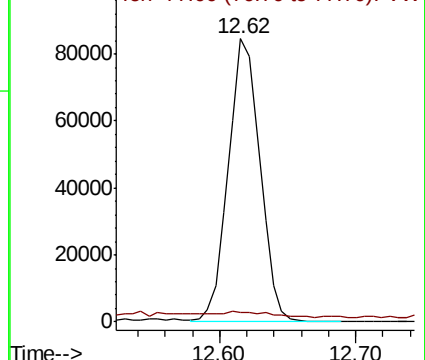
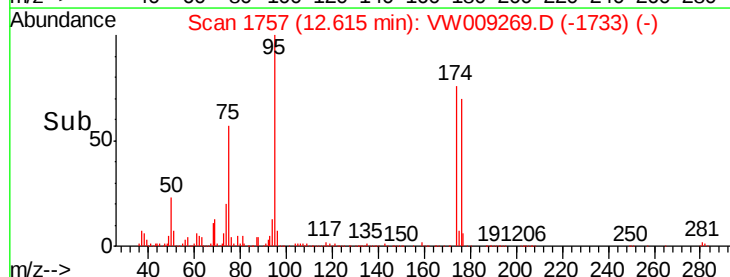
75 100

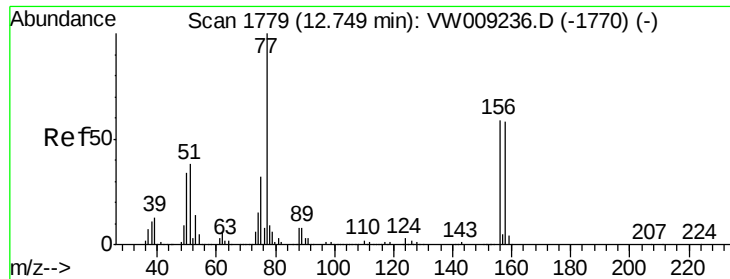
77 3.2 0.0 0.0#



Abundance Ion 74.90 (74.60 to 75.60): VW

Ion 77.00 (76.70 to 77.70): VW





#77

Bromobenzene

Concen: 6.276 ug/l

RT: 12.92 min Scan# 1807

Delta R.T. 0.17 min

Lab File: VW009269.D

Acq: 20 Mar 2019 06:00

Instrument :

MSVOA_W

ClientSampleId :

SB-13(13.5-14.5)

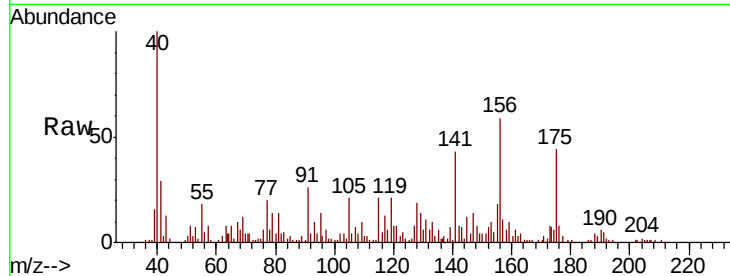
Tot Ion:156 Resp: 24406

Ion Ratio Lower Upper

156 100

77 0.0 96.0 288.0#

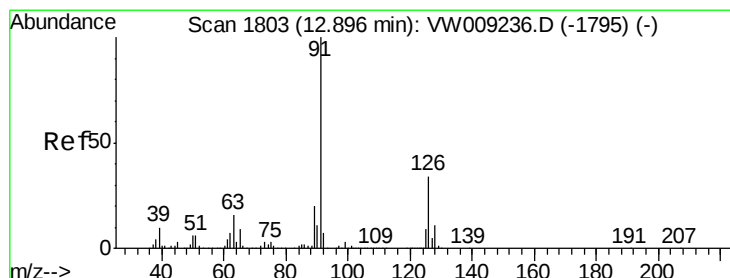
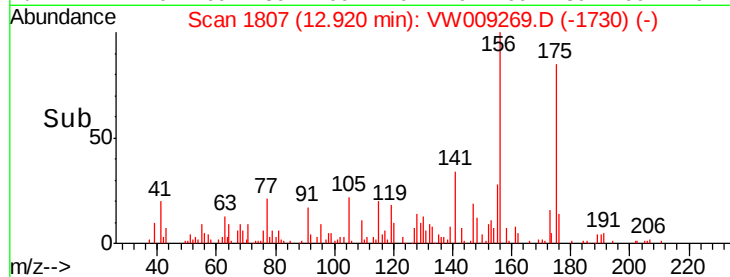
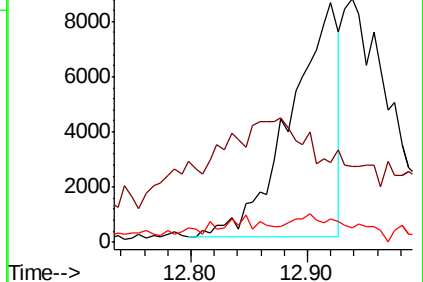
158 2.2 49.1 147.3#



Abundance Ion 155.80 (155.50 to 156.50): V

Ion 77.00 (76.70 to 77.70): VW

Ion 157.80 (157.50 to 158.50): V



#79

2-Chlorotoluene

Concen: 1.667 ug/l

RT: 12.86 min Scan# 1797

Delta R.T. -0.04 min

Lab File: VW009269.D

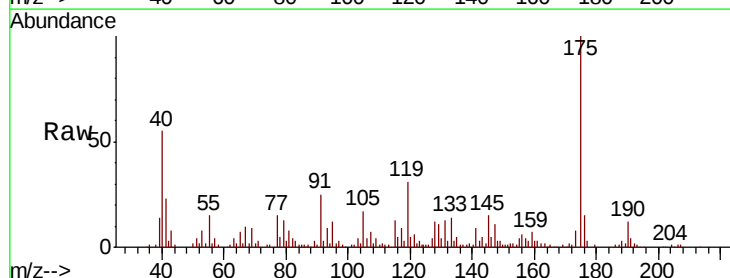
Acq: 20 Mar 2019 06:00

Tgt Ion: 91 Resp: 19095

Ion Ratio Lower Upper

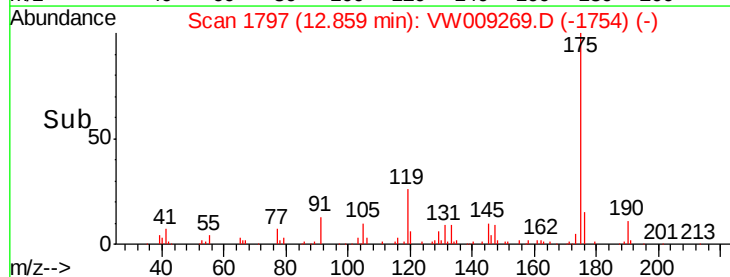
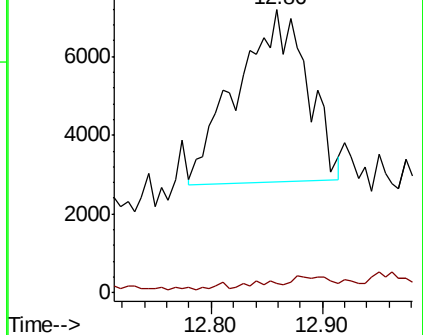
91 100

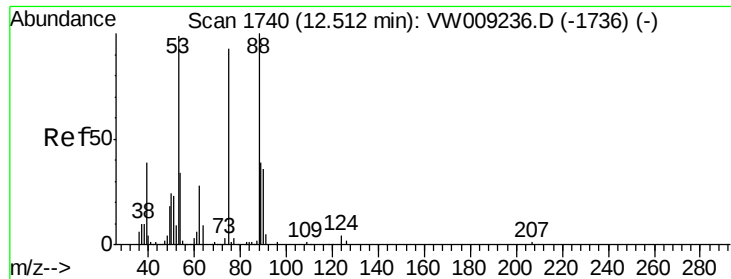
126 1.3 17.0 51.0#



Abundance Ion 91.00 (90.70 to 91.70): VW

Ion 125.90 (125.60 to 126.60): V





#81

trans-1,4-Dichloro-2-butene

Concen: 144.862 ug/l

RT: 12.62 min Scan# 1757

Delta R.T. 0.10 min

Lab File: VW009269.D

Acq: 20 Mar 2019 06:00

Instrument :

MSVOA_W

ClientSampleId :

SB-13(13.5-14.5)

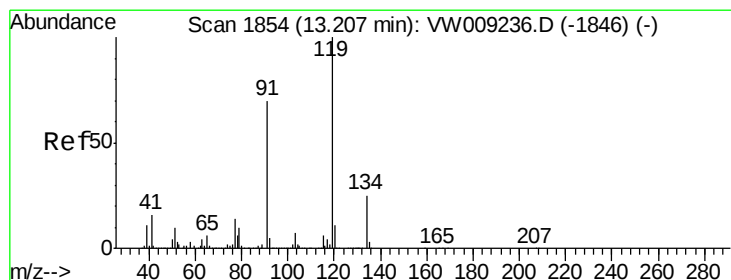
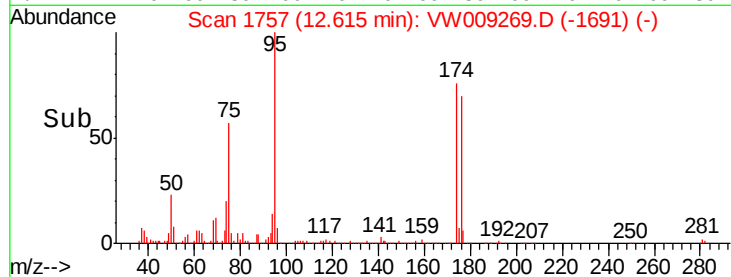
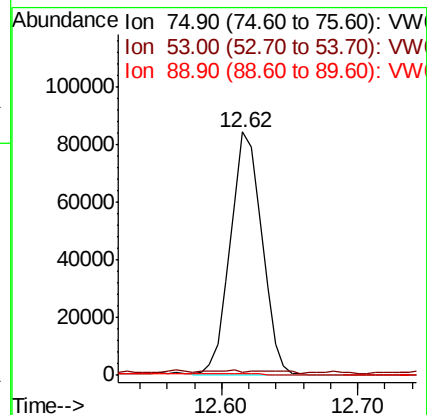
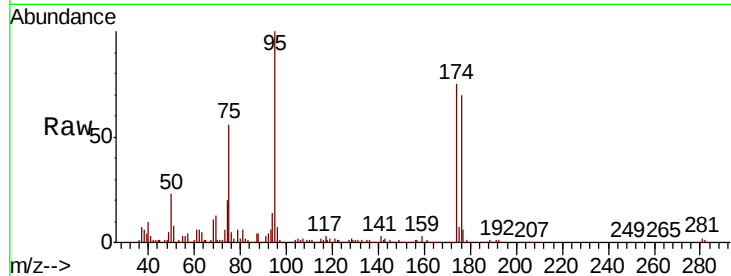
Tot Ion: 75 Resp: 136262

Ion Ratio Lower Upper

75 100

53 0.4 86.7 130.1#

89 0.6 36.4 54.6#



#83

tert-Butylbenzene

Concen: 1.675 ug/l

RT: 13.44 min Scan# 1892

Delta R.T. 0.23 min

Lab File: VW009269.D

Acq: 20 Mar 2019 06:00

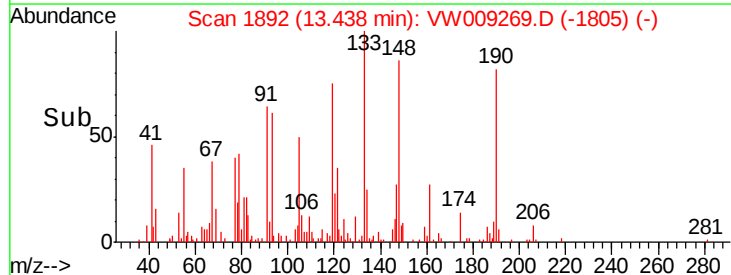
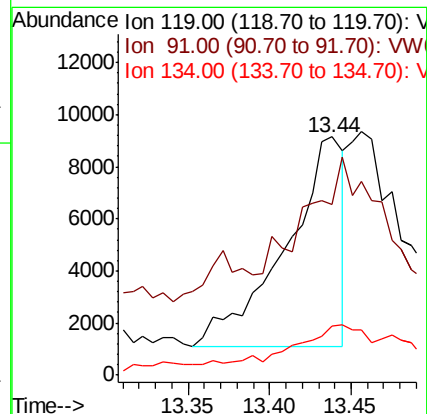
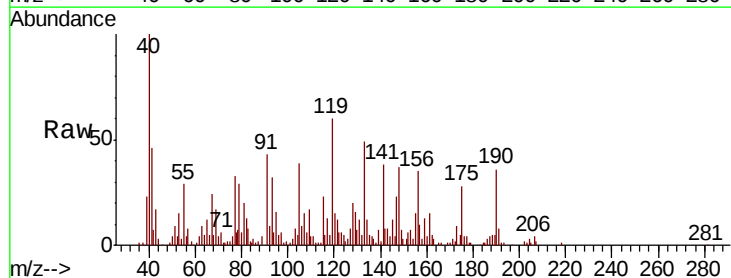
Tgt Ion: 119 Resp: 19989

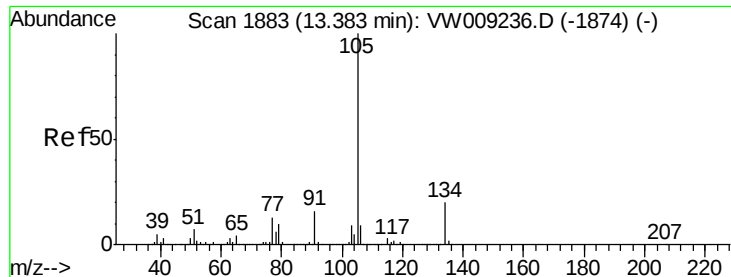
Ion Ratio Lower Upper

119 100

91 60.9 34.4 103.2

134 23.4 12.7 38.1

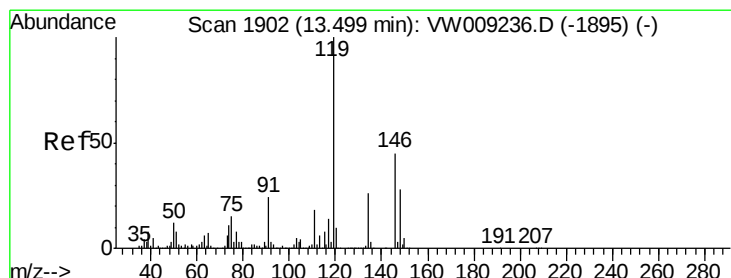
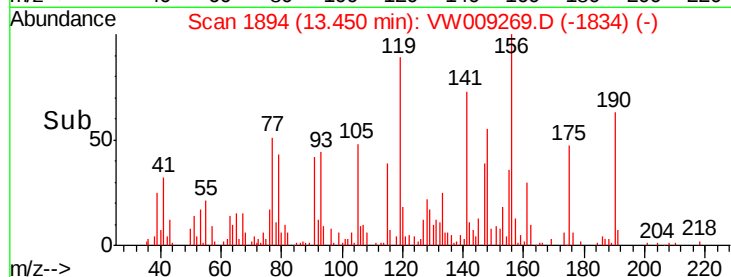
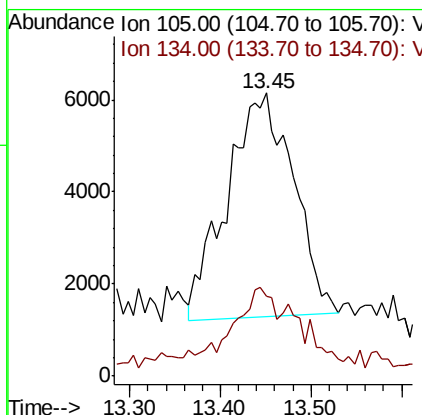
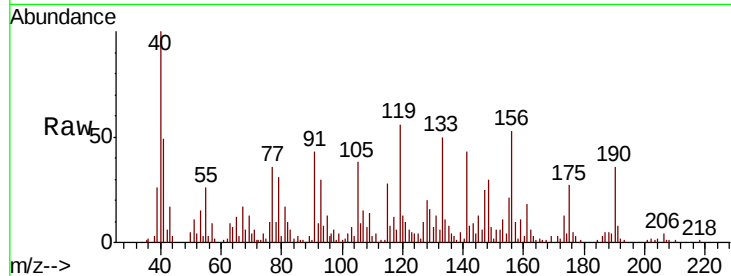




#85
 sec-Butylbenzene
 Concen: 1.398 ug/l
 RT: 13.45 min Scan# 1894
 Delta R.T. 0.07 min
 Lab File: VW009269.D
 Acq: 20 Mar 2019 06:00

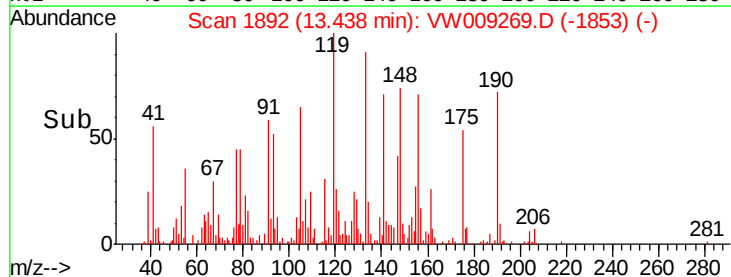
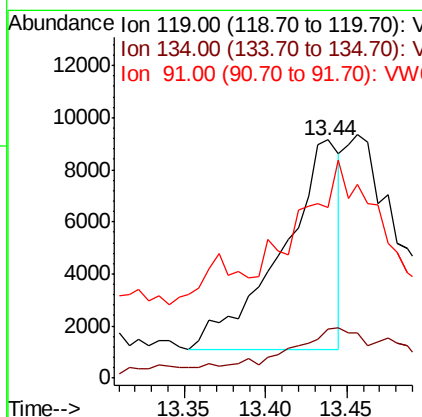
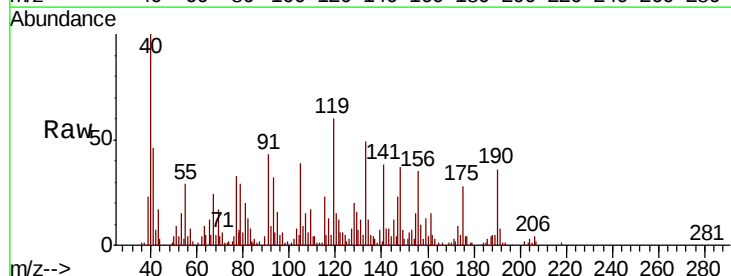
Instrument :
 MSVOA_W
 ClientSampleId :
 SB-13(13.5-14.5)

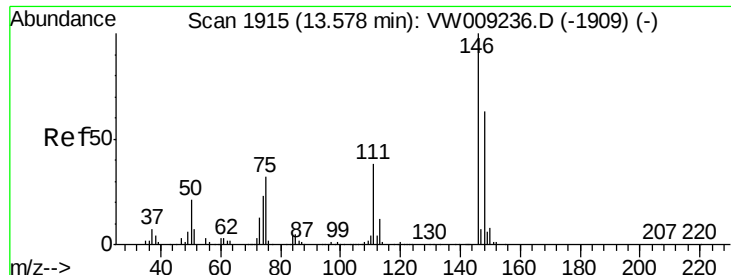
Tot Ion:105 Resp: 24649
 Ion Ratio Lower Upper
 105 100
 134 19.0 10.2 30.6



#86
 p-Isopropyltoluene
 Concen: 1.273 ug/l
 RT: 13.44 min Scan# 1892
 Delta R.T. -0.06 min
 Lab File: VW009269.D
 Acq: 20 Mar 2019 06:00

Tgt Ion:119 Resp: 19989
 Ion Ratio Lower Upper
 119 100
 134 23.4 13.1 39.3
 91 127.0 12.3 36.8#

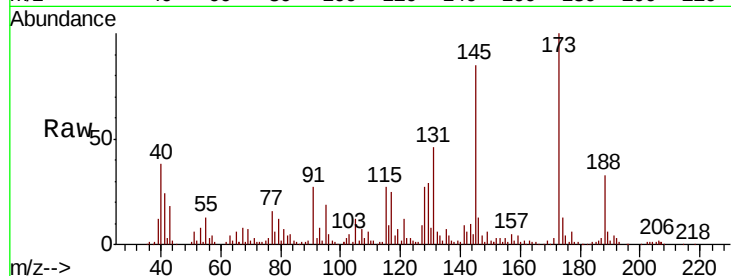




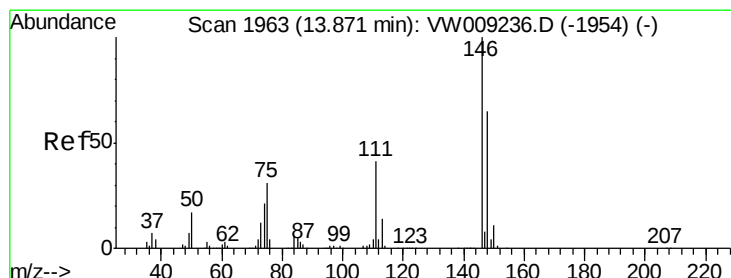
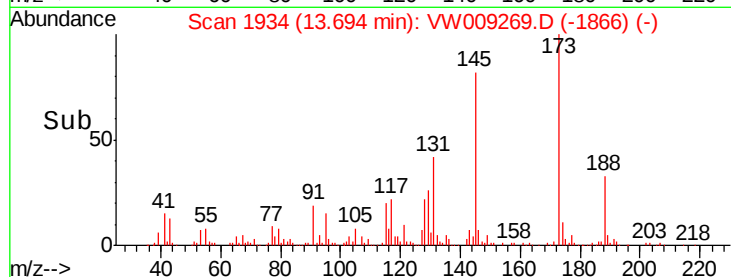
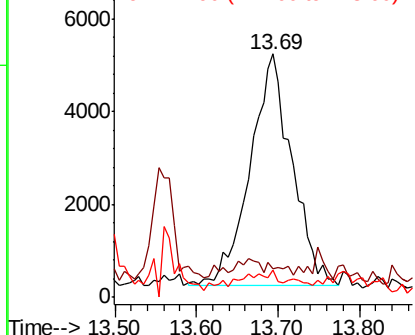
#88
 1,4-Dichlorobenzene
 Concen: 2.224 ug/l
 RT: 13.69 min Scan# 1934
 Delta R.T. 0.12 min
 Lab File: VW009269.D
 Acq: 20 Mar 2019 06:00

Instrument :
 MSVOA_W
 ClientSampleId :
 SB-13(13.5-14.5)

Tot Ion:146 Resp: 17818
 Ion Ratio Lower Upper
 146 100
 111 0.0 19.9 59.6#
 148 4.4 32.2 96.6#

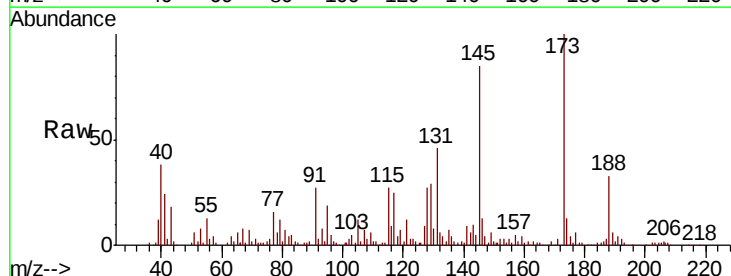


Abundance Ion 145.90 (145.60 to 146.60): V
 Ion 110.90 (110.60 to 111.60): V
 Ion 147.90 (147.60 to 148.60): V



#91
 1,2-Dichlorobenzene
 Concen: 2.469 ug/l
 RT: 13.69 min Scan# 1934
 Delta R.T. -0.18 min
 Lab File: VW009269.D
 Acq: 20 Mar 2019 06:00

Tgt Ion:146 Resp: 17818
 Ion Ratio Lower Upper
 146 100
 111 0.0 20.4 61.2#
 148 4.8 31.9 95.9#



Abundance Ion 145.90 (145.60 to 146.60): V
 Ion 110.90 (110.60 to 111.60): V
 Ion 147.90 (147.60 to 148.60): V

