

Data Path : Z:\VOASRV\HPCHEM1\MSVOA W\DATA\VW031919\
 Data File : VW009265.D
 Acq On : 20 Mar 2019 04:13
 Operator : SY/VA
 Sample : K1984-02
 Misc : 5.05G/5ML/MSVOA W/SOIL
 ALS Vial : 40 Sample Multiplier: 1

Instrument :
 MSVOA_W
 ClientSampleId :
 SB-12(14-15)

Quant Time: Mar 20 08:22:30 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	332734	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	8.84	114	546836	50.00	ug/l	0.00
63) Chlorobenzene-d5	11.63	117	542044	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.56	152	292760	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	211028	59.63	ug/l	0.00
Spiked Amount			Recovery	=	119.26%	
35) Dibromofluoromethane	7.88	113	174830	50.40	ug/l	0.00
Spiked Amount			Recovery	=	100.80%	
50) Toluene-d8	10.32	98	693818	55.04	ug/l	0.00
Spiked Amount			Recovery	=	110.08%	
62) 4-Bromofluorobenzene	12.62	95	298693	64.53	ug/l	0.00
Spiked Amount			Recovery	=	129.06%	

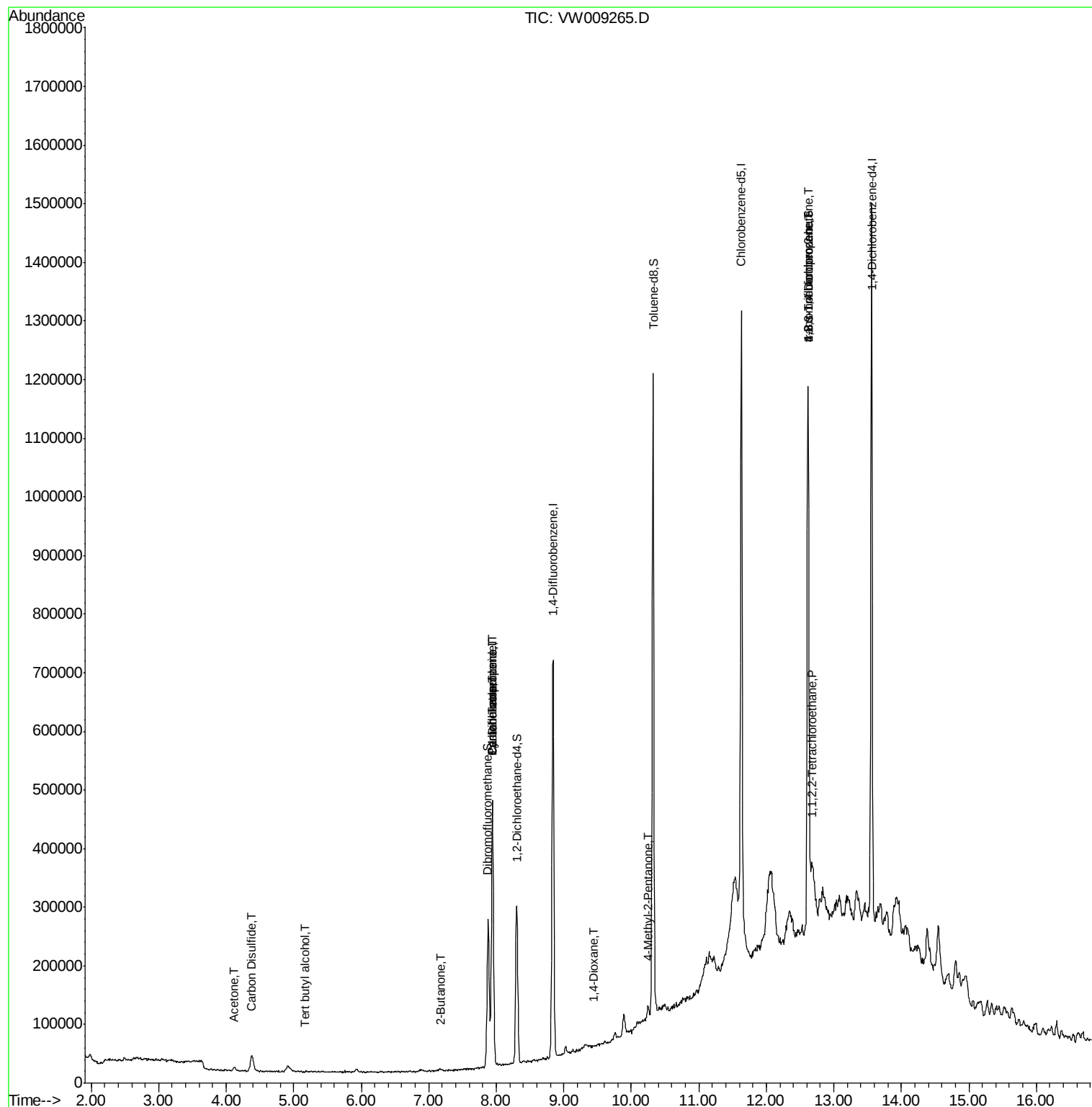
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
2) Dichlorodifluoromethane	2.02	85	865	Below Cal		84
11) Tert butyl alcohol	5.17	59	725	3.528	ug/l #	88
16) Acetone	4.11	43	12396	17.071	ug/l #	88
17) Carbon Disulfide	4.38	76	59492	6.720	ug/l #	90
20) Methylene Chloride	4.91	84	8131	Below Cal	#	90
25) 2-Butanone	7.18	43	2671	2.567	ug/l #	86
31) Cyclohexane	7.95	56	8269	1.424	ug/l #	27
36) 1,1-Dichloropropene	7.94	75	27845	5.117	ug/l #	52
38) Carbon Tetrachloride	7.95	117	34170	5.934	ug/l #	17
49) 1,4-Dioxane	9.45	88	40	1.250	ug/l #	1
51) 4-Methyl-2-Pentanone	10.25	43	3783	1.460	ug/l	90
75) 1,1,2,2-Tetrachloroethane	12.68	83	42852	11.707	ug/l #	30
76) 1,2,3-Trichloropropane	12.62	75	159546	57.992	ug/l #	100
81) trans-1,4-Dichloro-2-buten	12.62	75	159546	142.297	ug/l #	8

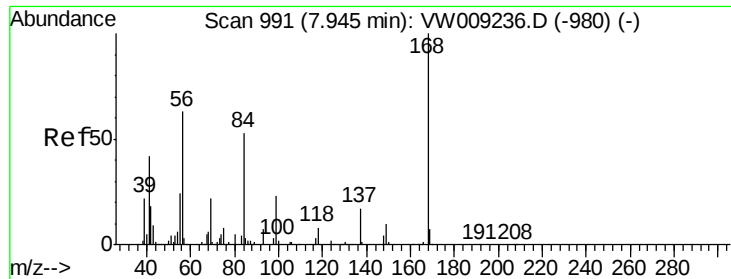
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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QLast Update : Wed Mar 20 07:22:50 2019
Response via : Initial Calibration





#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 7.95 min Scan# 991

Delta R.T. 0.00 min

Lab File: VW009265.D

Acq: 20 Mar 2019 04:13

Instrument :

MSVOA_W

ClientSampleId :

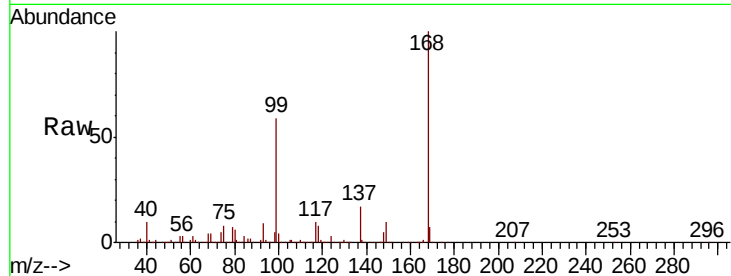
SB-12(14-15)

Tot Ion:168 Resp: 332734

Ion Ratio Lower Upper

168 100

99 58.9 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

150000

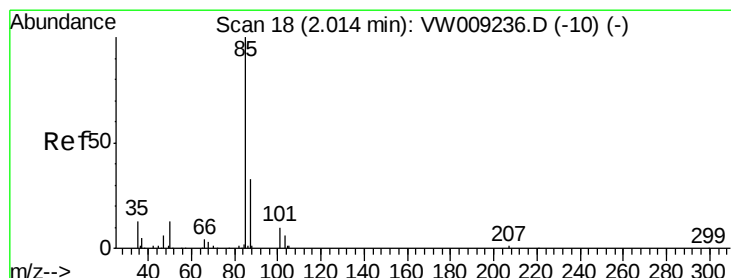
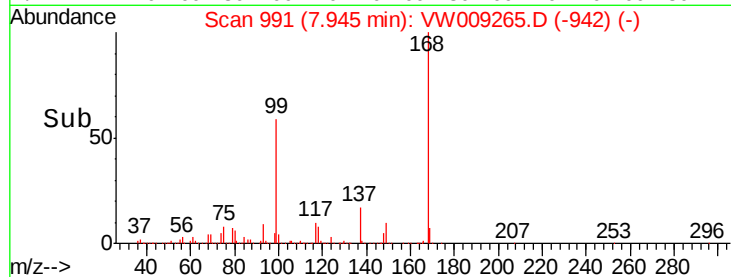
100000

50000

0

7.90 8.00

Time-->



#2

Dichlorodifluoromethane

Concen: Below Cal

RT: 2.02 min Scan# 19

Delta R.T. 0.01 min

Lab File: VW009265.D

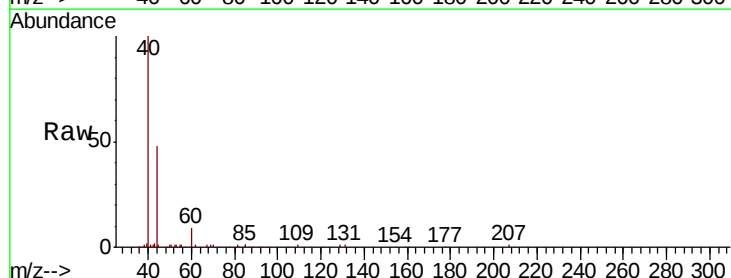
Acq: 20 Mar 2019 04:13

Tgt Ion: 85 Resp: 865

Ion Ratio Lower Upper

85 100

87 24.4 16.7 50.1



Abundance Ion 84.90 (84.60 to 85.60): VW

Ion 86.90 (86.60 to 87.60): VW

2.02

400

300

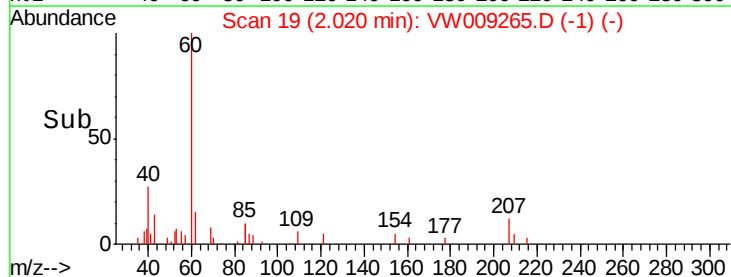
200

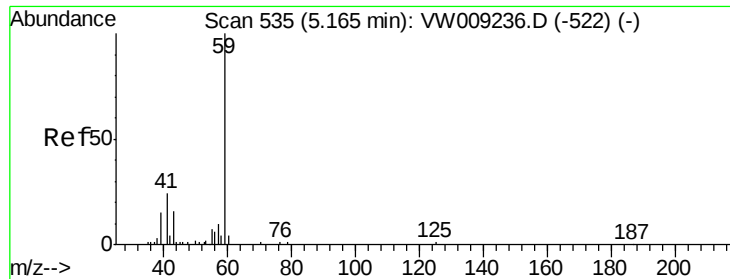
100

0

1.95 2.00 2.05

Time-->



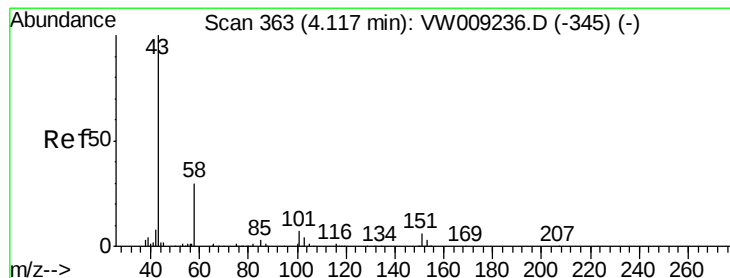
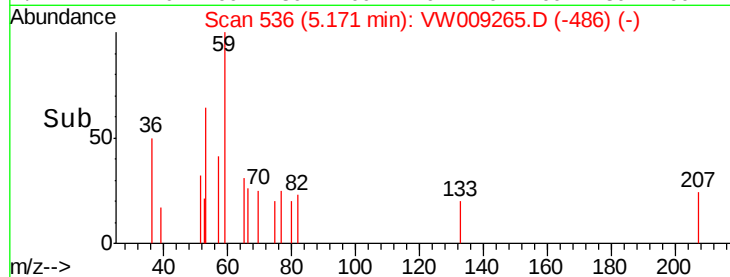
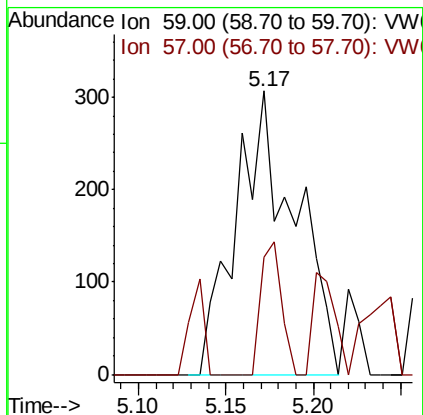
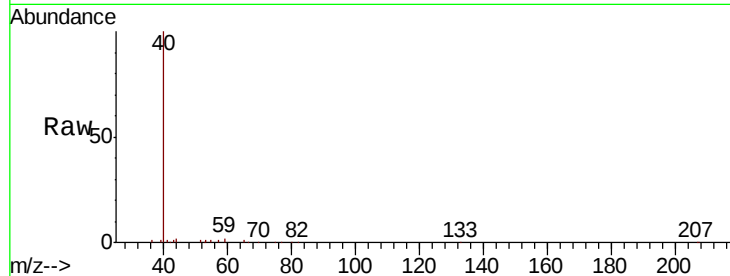


#11

Tert butyl alcohol
 Concen: 3.528 ug/l
 RT: 5.17 min Scan# 536
 Delta R.T. 0.01 min
 Lab File: VW009265.D
 Acq: 20 Mar 2019 04:13

Instrument :
 MSVOA_W
 ClientSampleId :
 SB-12(14-15)

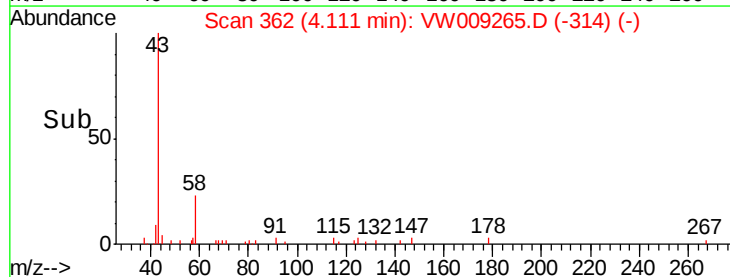
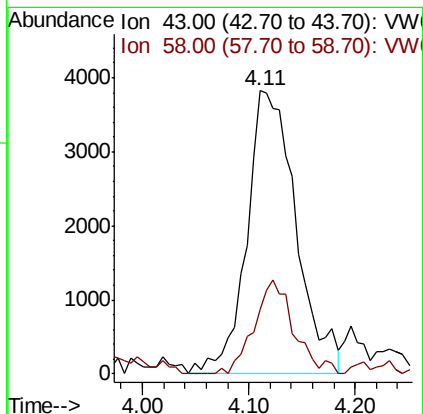
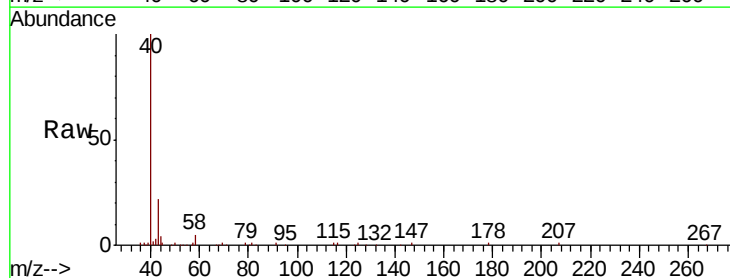
Tot Ion: 59 Resp: 725
 Ion Ratio Lower Upper
 59 100
 57 16.4 9.4 14.0#

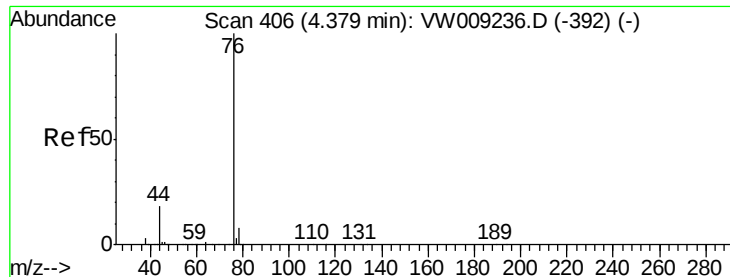


#16

Acetone
 Concen: 17.071 ug/l
 RT: 4.11 min Scan# 362
 Delta R.T. -0.01 min
 Lab File: VW009265.D
 Acq: 20 Mar 2019 04:13

Tgt Ion: 43 Resp: 12396
 Ion Ratio Lower Upper
 43 100
 58 22.8 23.6 35.4#





#17

Carbon Disulfide

Concen: 6.720 ug/l

RT: 4.38 min Scan# 406

Delta R.T. 0.00 min

Lab File: VW009265.D

Acq: 20 Mar 2019 04:13

Instrument :

MSVOA_W

ClientSampleId :

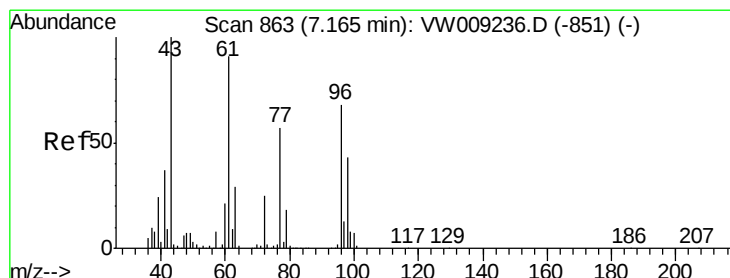
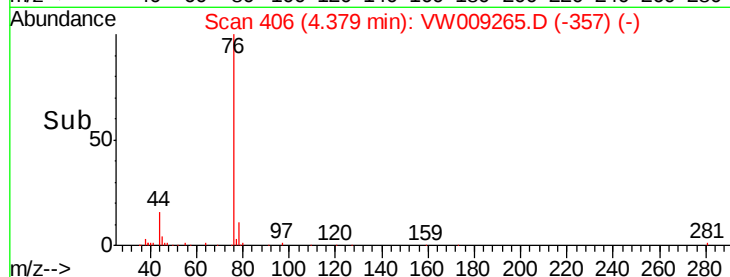
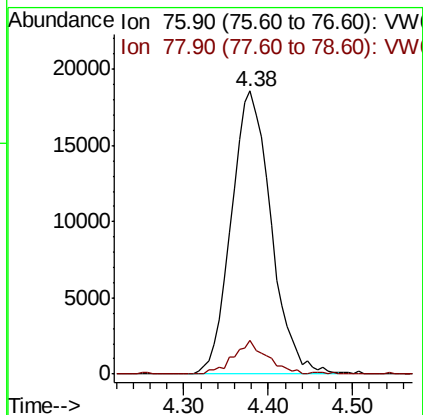
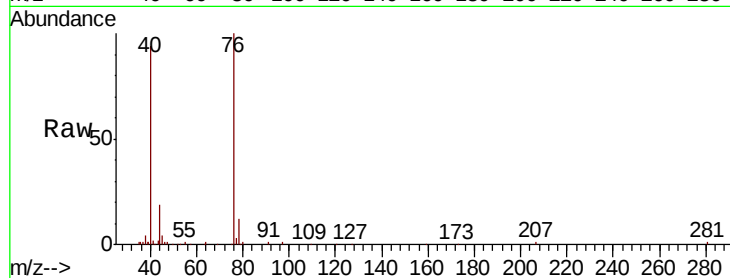
SB-12(14-15)

Tot Ion: 76 Resp: 59492

Ion Ratio Lower Upper

76 100

78 11.9 6.6 9.8#



#25

2-Butanone

Concen: 2.567 ug/l

RT: 7.18 min Scan# 865

Delta R.T. 0.01 min

Lab File: VW009265.D

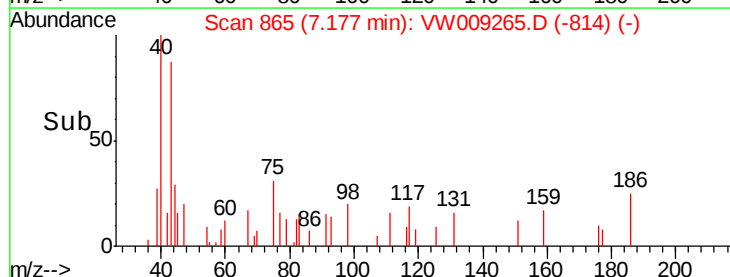
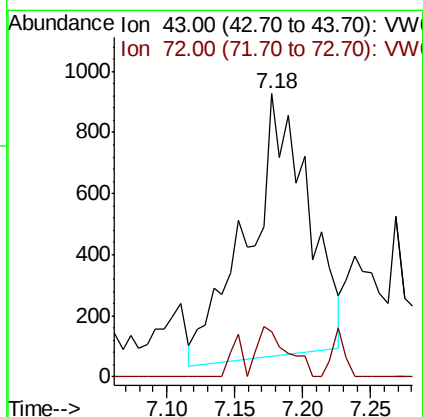
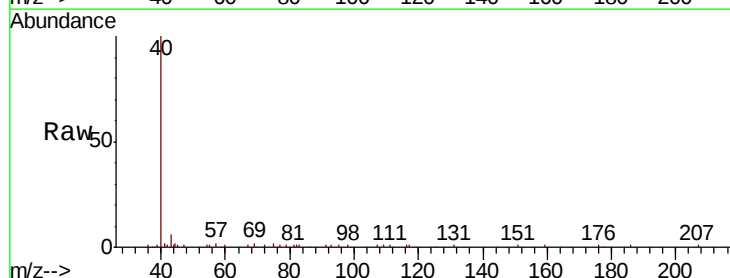
Acq: 20 Mar 2019 04:13

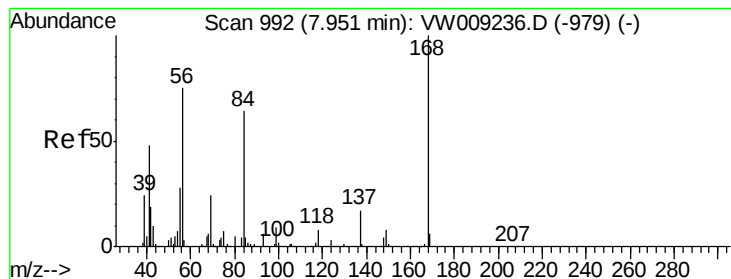
Tgt Ion: 43 Resp: 2671

Ion Ratio Lower Upper

43 100

72 18.1 20.0 30.0#





#31

Cyclohexane

Concen: 1.424 ug/l

RT: 7.95 min Scan# 991

Delta R.T. -0.01 min

Lab File: VW009265.D

Acq: 20 Mar 2019 04:13

Instrument :

MSVOA_W

ClientSampleId :

SB-12(14-15)

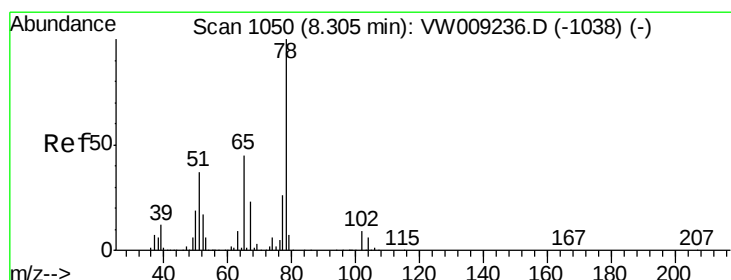
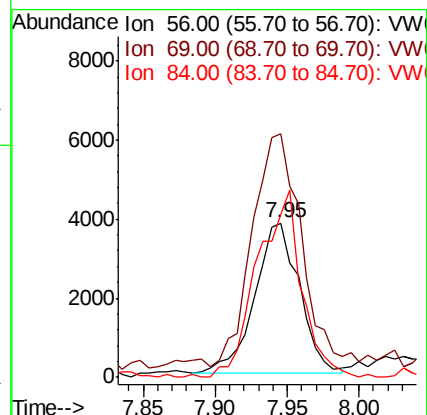
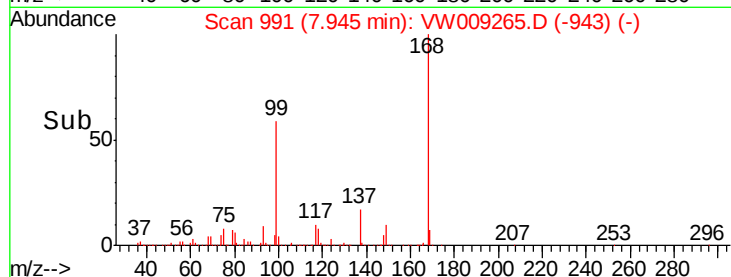
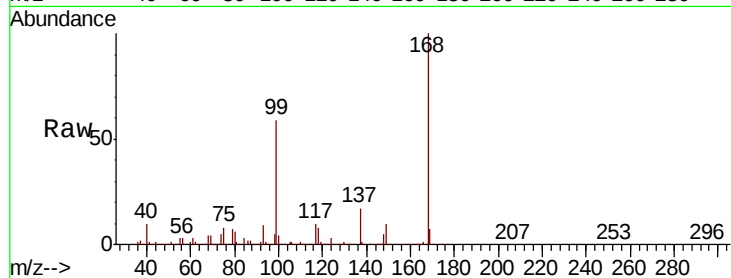
Tot Ion: 56 Resp: 8269

Ion Ratio Lower Upper

56 100

69 149.8 26.1 39.1#

84 105.7 68.6 103.0#



#33

1,2-Dichloroethane-d4

Concen: 59.625 ug/l

RT: 8.31 min Scan# 1050

Delta R.T. 0.00 min

Lab File: VW009265.D

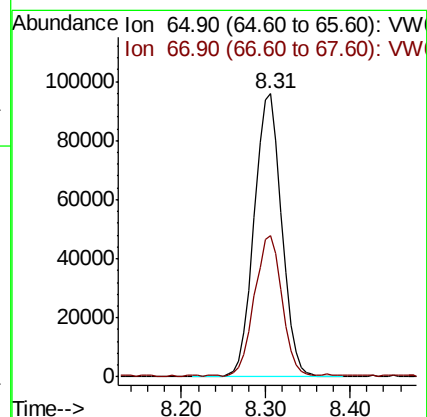
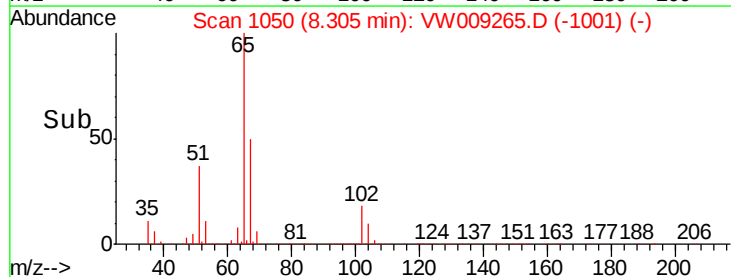
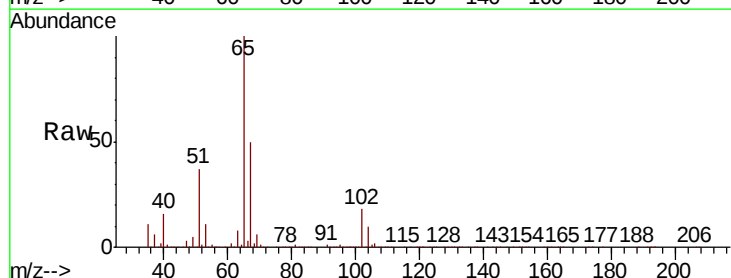
Acq: 20 Mar 2019 04:13

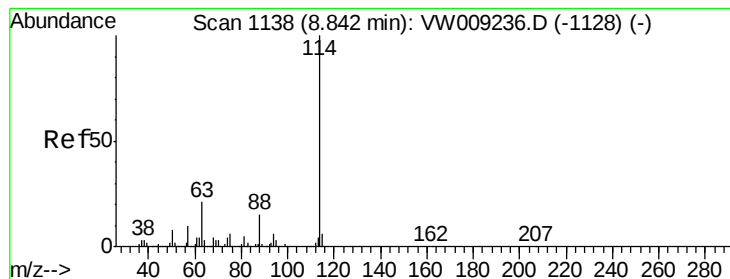
Tgt Ion: 65 Resp: 211028

Ion Ratio Lower Upper

65 100

67 50.0 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: VW009265.D

Acq: 20 Mar 2019 04:13

Instrument :

MSVOA_W

ClientSampleId :

SB-12(14-15)

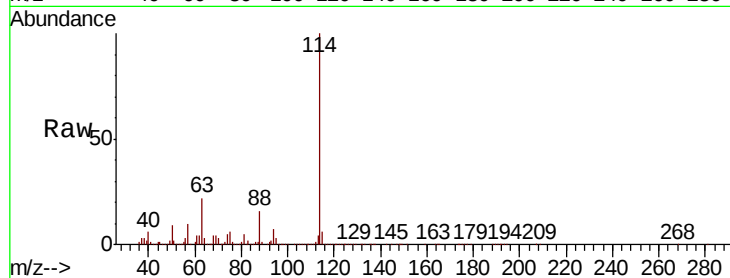
Tot Ion:114 Resp: 546836

Ion Ratio Lower Upper

114 100

63 22.2 0.0 42.2

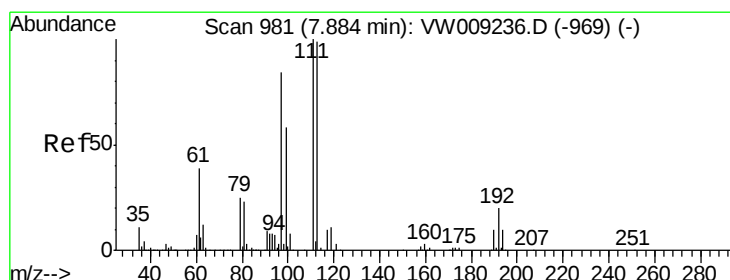
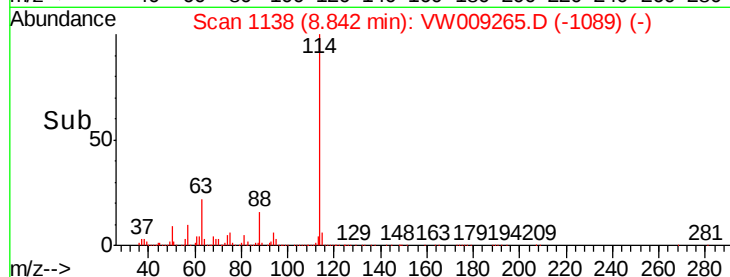
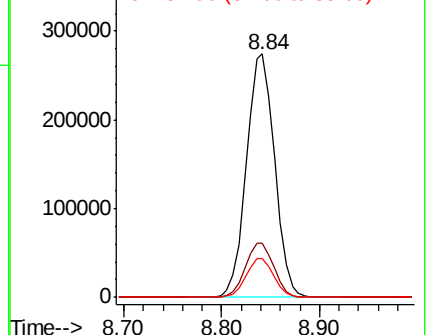
88 15.9 0.0 30.8



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: 50.400 ug/l

RT: 7.88 min Scan# 980

Delta R.T. -0.01 min

Lab File: VW009265.D

Acq: 20 Mar 2019 04:13

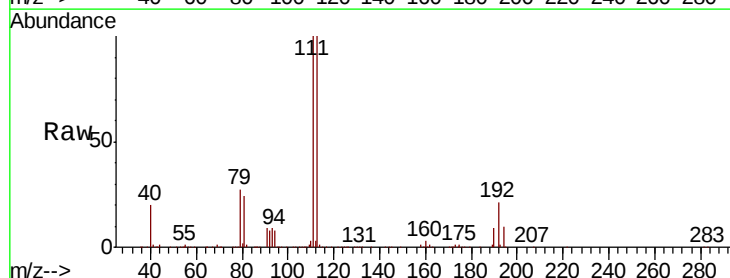
Tgt Ion:113 Resp: 174830

Ion Ratio Lower Upper

113 100

111 103.0 82.6 124.0

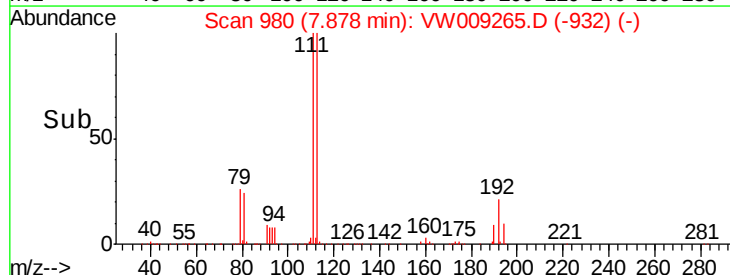
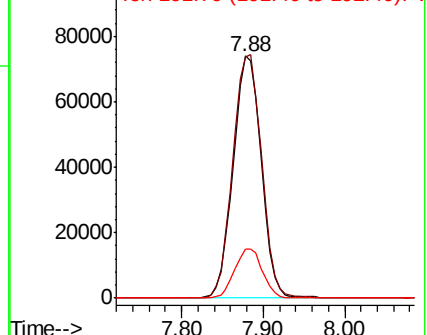
192 20.4 16.4 24.6

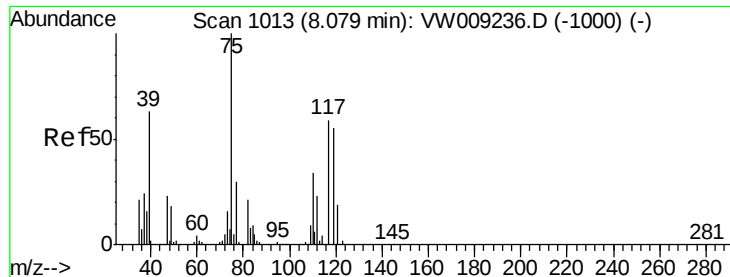


Abundance Ion 112.80 (112.50 to 113.50): V

Ion 110.80 (110.50 to 111.50): V

Ion 191.70 (191.40 to 192.40): V





#36

1,1-Dichloropropene

Concen: 5.117 ug/l

RT: 7.94 min Scan# 990

Delta R.T. -0.14 min

Lab File: VW009265.D

Acq: 20 Mar 2019 04:13

Instrument :

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ClientSampleId :

SB-12(14-15)

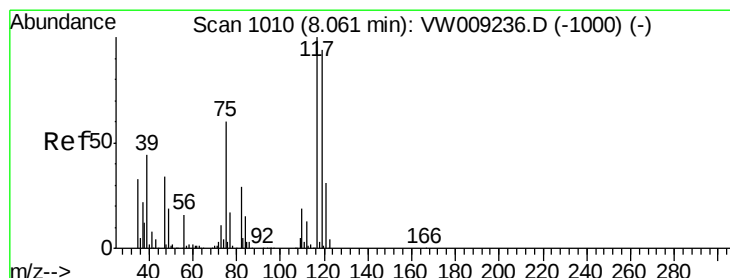
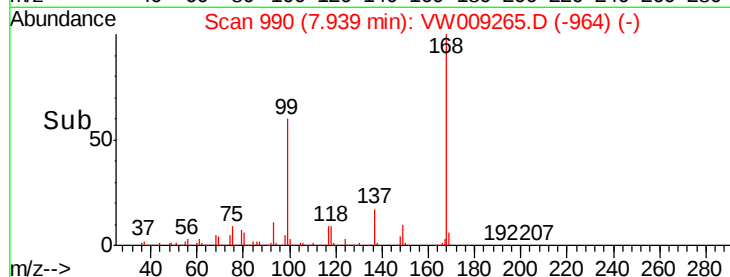
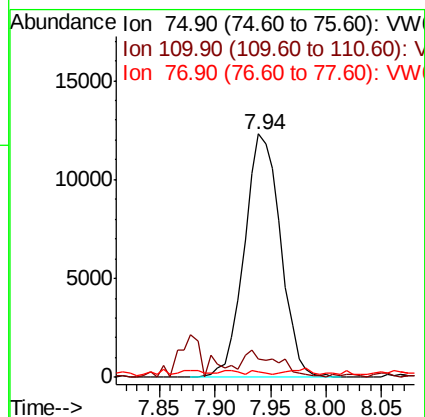
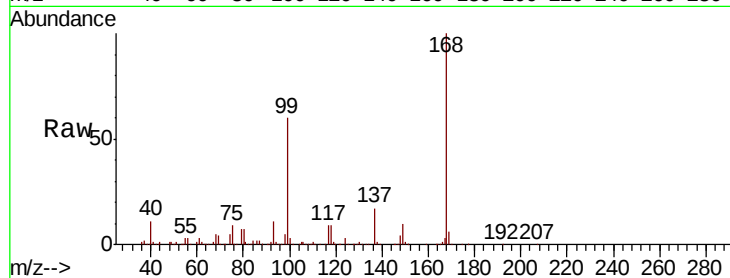
Tot Ion: 75 Resp: 27845

Ion Ratio Lower Upper

75 100

110 10.0 16.8 50.4#

77 0.5 24.6 36.8#



#38

Carbon Tetrachloride

Concen: 5.934 ug/l

RT: 7.95 min Scan# 991

Delta R.T. -0.12 min

Lab File: VW009265.D

Acq: 20 Mar 2019 04:13

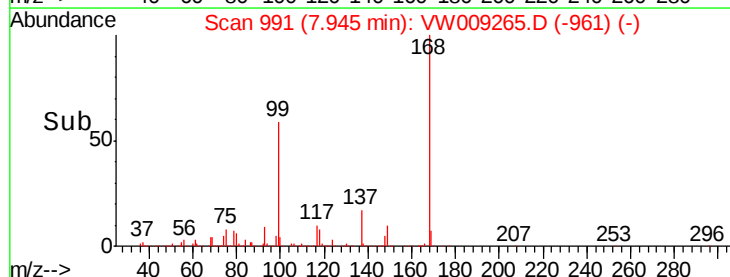
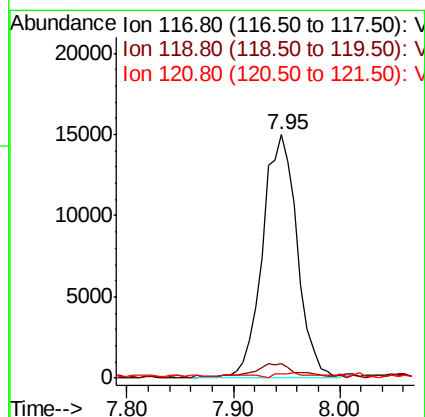
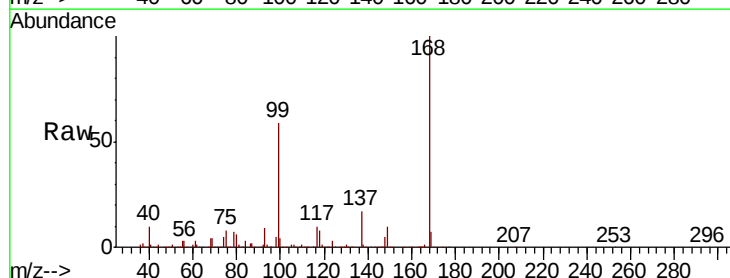
Tgt Ion: 117 Resp: 34170

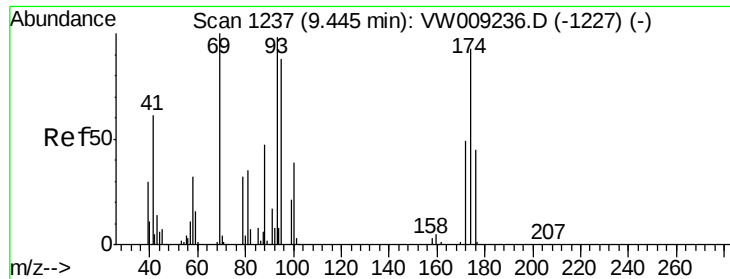
Ion Ratio Lower Upper

117 100

119 5.8 75.4 113.0#

121 0.4 24.9 37.3#

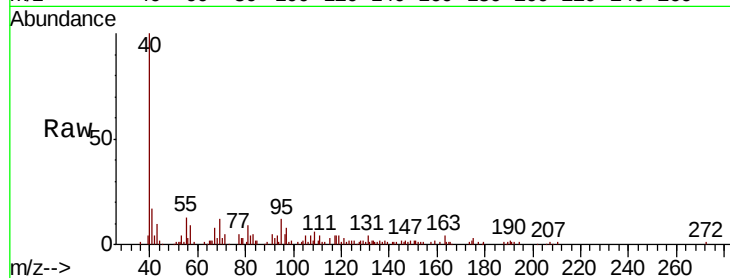




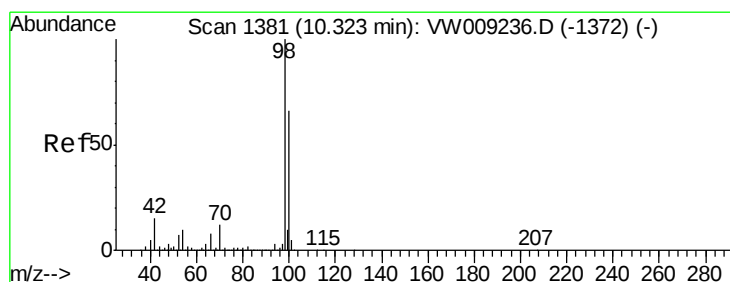
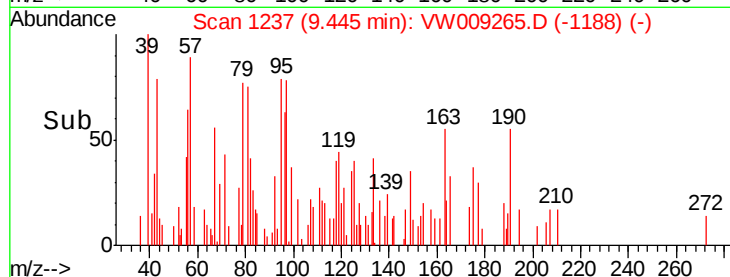
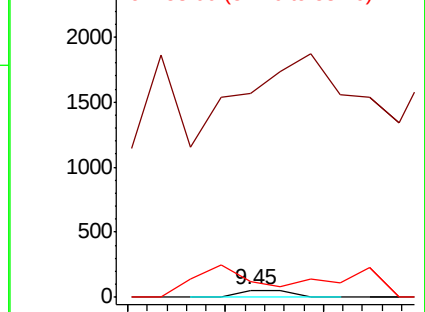
#49
1,4-Dioxane
Concen: 1.250 ug/l
RT: 9.45 min Scan# 1237
Delta R.T. 0.00 min
Lab File: VW009265.D
Acq: 20 Mar 2019 04:13

Instrument :
MSVOA_W
ClientSampleId :
SB-12(14-15)

Tot Ion: 88 Resp: 40
Ion Ratio Lower Upper
88 100
43 667.5 29.7 44.5#
58 542.5 58.1 87.1#

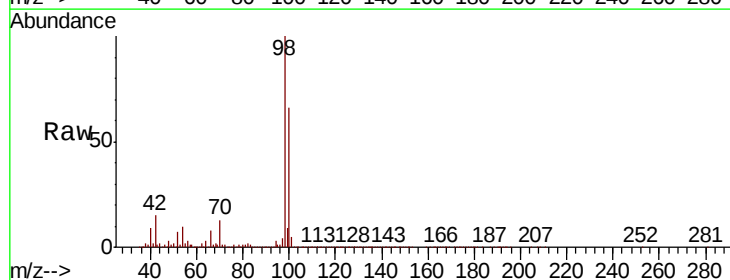


Abundance Ion 88.00 (87.70 to 88.70): VW
Ion 43.00 (42.70 to 43.70): VW
Ion 58.00 (57.70 to 58.70): VW

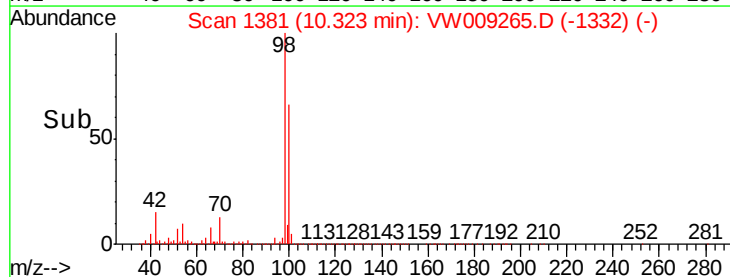
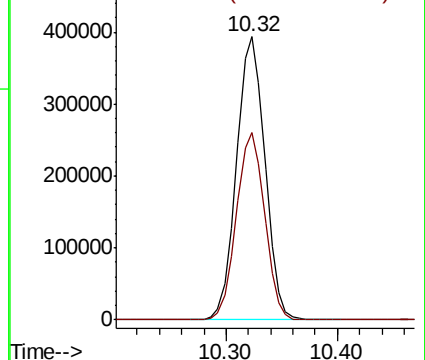


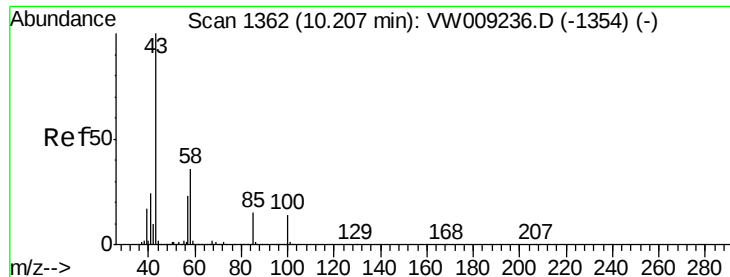
#50
Toluene-d8
Concen: 55.039 ug/l
RT: 10.32 min Scan# 1381
Delta R.T. 0.00 min
Lab File: VW009265.D
Acq: 20 Mar 2019 04:13

Tgt Ion: 98 Resp: 693818
Ion Ratio Lower Upper
98 100
100 65.9 52.6 79.0



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: 1.460 ug/l

RT: 10.25 min Scan# 1369

Delta R.T. 0.04 min

Lab File: VW009265.D

Acq: 20 Mar 2019 04:13

Instrument :

MSVOA_W

ClientSampleId :

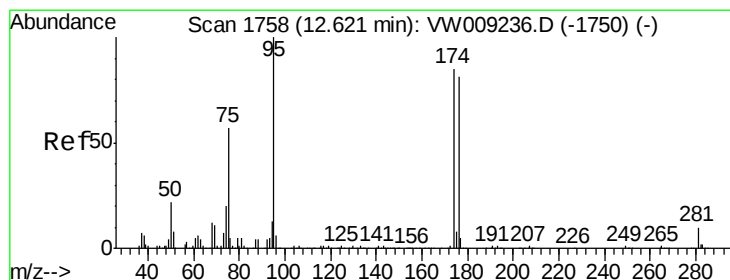
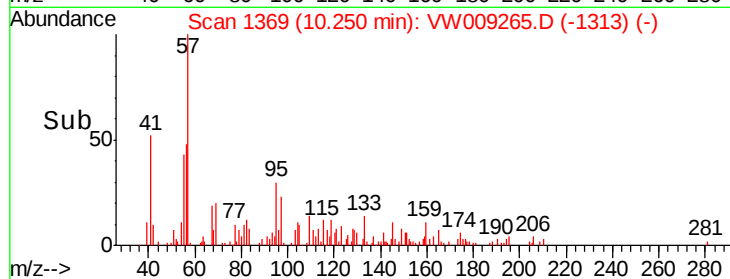
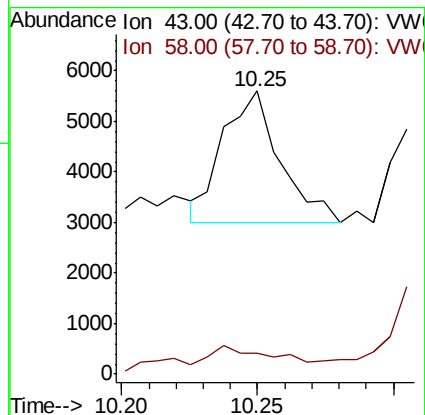
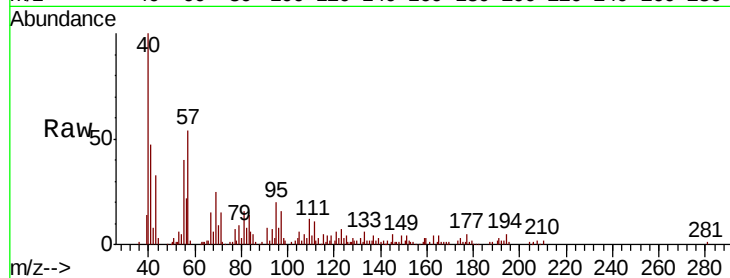
SB-12(14-15)

Tot Ion: 43 Resp: 3783

Ion Ratio Lower Upper

43 100

58 30.1 28.6 42.8



#62

4-Bromofluorobenzene

Concen: 64.534 ug/l

RT: 12.62 min Scan# 1757

Delta R.T. -0.01 min

Lab File: VW009265.D

Acq: 20 Mar 2019 04:13

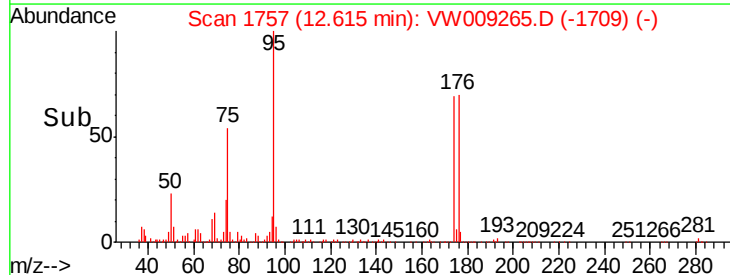
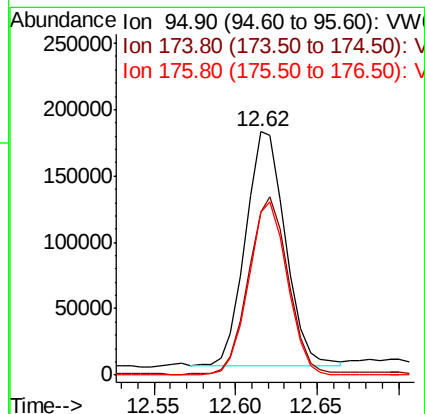
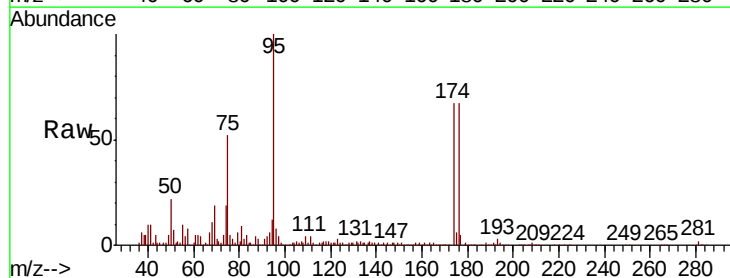
Tgt Ion: 95 Resp: 298693

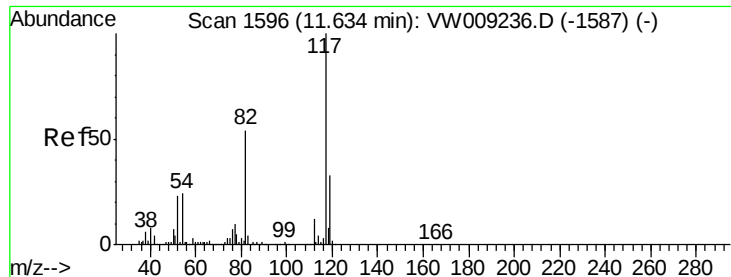
Ion Ratio Lower Upper

95 100

174 75.3 0.0 168.4

176 72.0 0.0 161.6

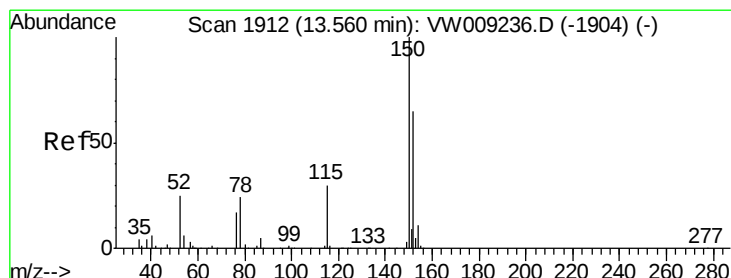
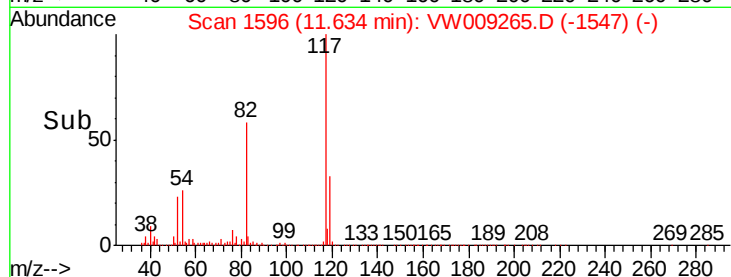
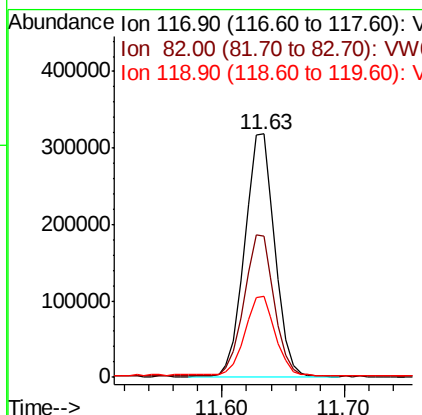
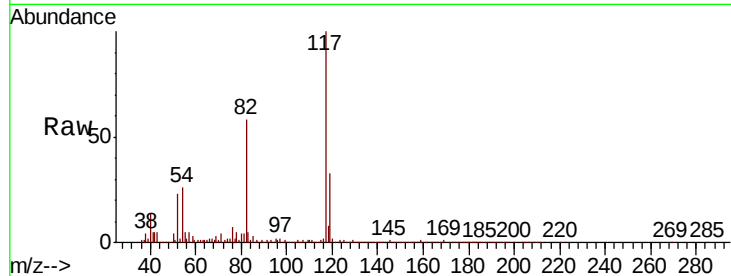




#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.63 min Scan# 1596
Delta R.T. 0.00 min
Lab File: VW009265.D
Acq: 20 Mar 2019 04:13

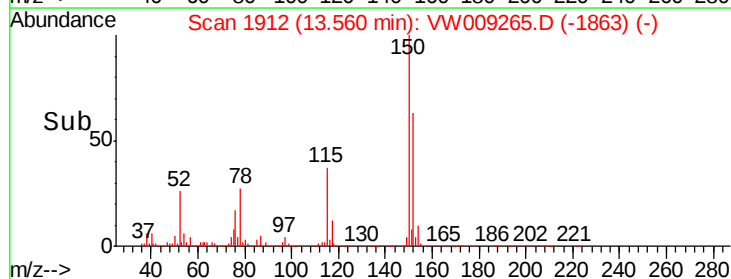
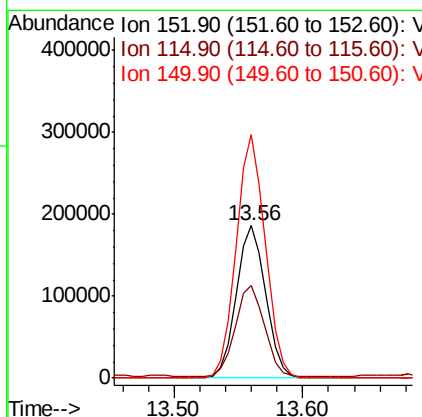
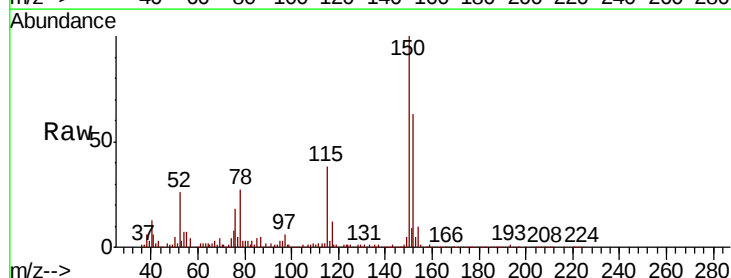
Instrument :
MSVOA_W
ClientSampleId :
SB-12(14-15)

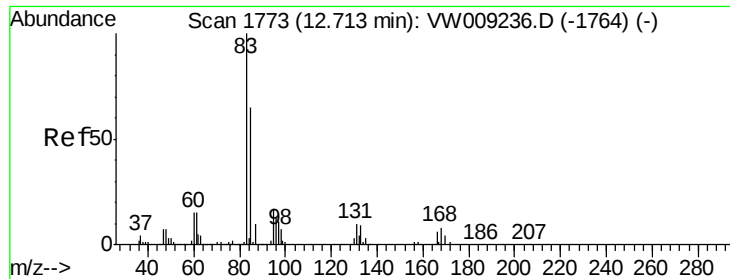
Tot Ion:117 Resp: 542044
Ion Ratio Lower Upper
117 100
82 57.7 43.6 65.4
119 32.4 26.0 39.0



#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 13.56 min Scan# 1912
Delta R.T. 0.00 min
Lab File: VW009265.D
Acq: 20 Mar 2019 04:13

Tgt Ion:152 Resp: 292760
Ion Ratio Lower Upper
152 100
115 59.3 29.6 88.8
150 157.5 0.0 349.2





#75

1,1,2,2-Tetrachloroethane

Concen: 11.707 ug/l

RT: 12.68 min Scan# 1767

Delta R.T. -0.04 min

Lab File: VW009265.D

Acq: 20 Mar 2019 04:13

Instrument :

MSVOA_W

ClientSampleId :

SB-12(14-15)

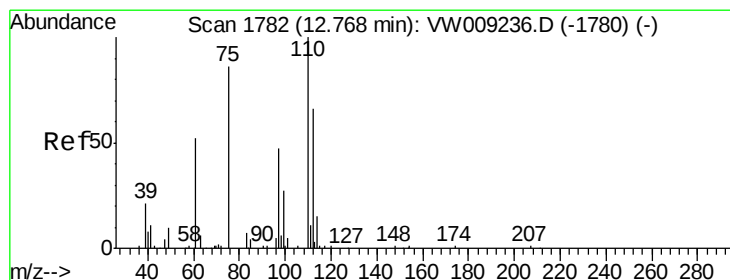
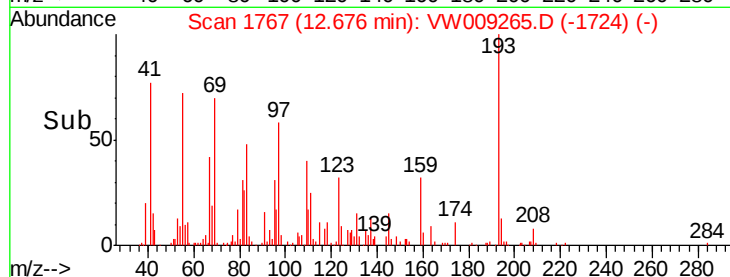
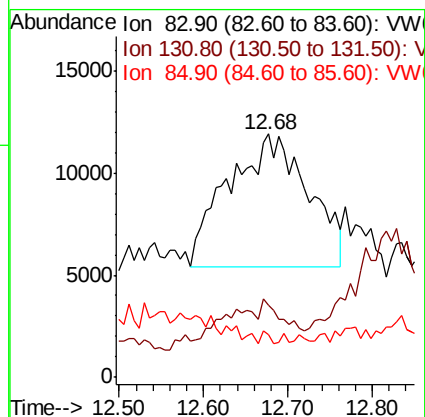
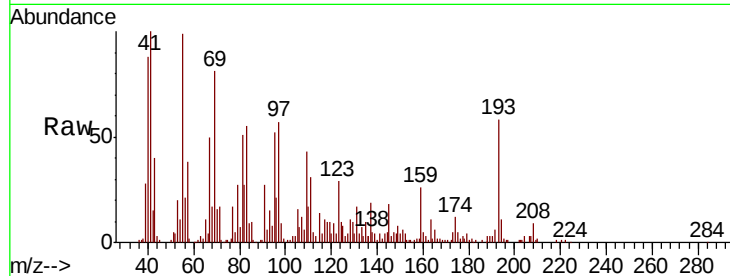
Tot Ion: 83 Resp: 42852

Ion Ratio Lower Upper

83 100

131 9.6 5.3 16.1

85 0.9 32.6 97.8#



#76

1,2,3-Trichloropropane

Concen: 57.992 ug/l

RT: 12.62 min Scan# 1757

Delta R.T. -0.15 min

Lab File: VW009265.D

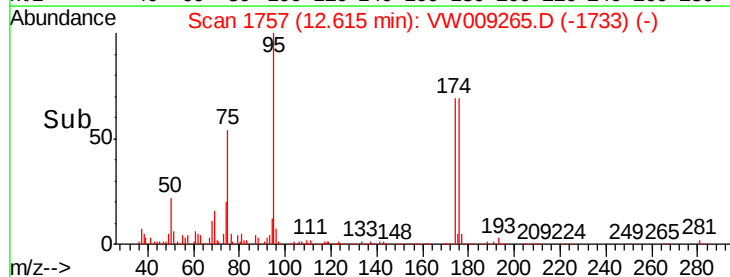
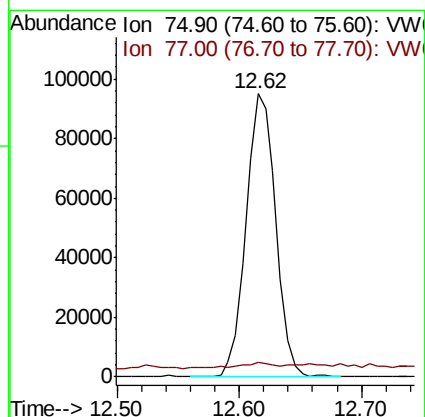
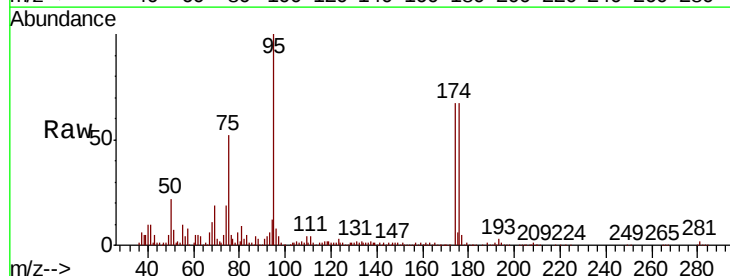
Acq: 20 Mar 2019 04:13

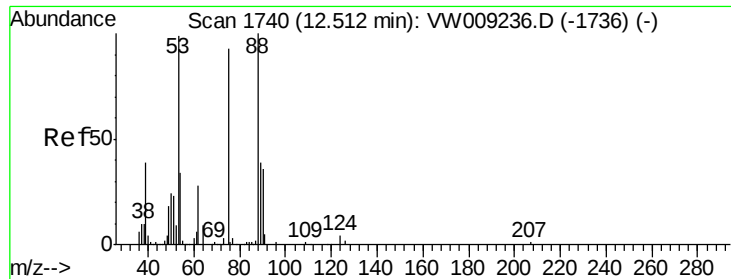
Tgt Ion: 75 Resp: 159546

Ion Ratio Lower Upper

75 100

77 3.0 0.0 0.0#





#81

trans-1,4-Dichloro-2-butene

Concen: 142.297 ug/l

RT: 12.62 min Scan# 1757

Delta R.T. 0.10 min

Lab File: VW009265.D

Acq: 20 Mar 2019 04:13

Instrument :

MSVOA_W

ClientSampleId :

SB-12(14-15)

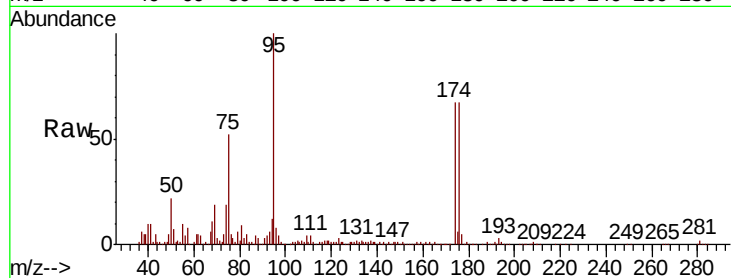
Tot Ion: 75 Resp: 159546

Ion Ratio Lower Upper

75 100

53 1.3 86.7 130.1#

89 0.3 36.4 54.6#



Abundance Ion 74.90 (74.60 to 75.60): VW

Ion 53.00 (52.70 to 53.70): VW

Ion 88.90 (88.60 to 89.60): VW

