

Data Path : Z:\VOASRV\HPCHEM1\MSVOA_W\DATA\VW080419\
 Data File : VW011666.D
 Acq On : 03 Aug 2019 15:22
 Operator : SY/VA
 Sample : K4152-05
 Misc : 6.86G/5ML/MSVOA_W/SOIL
 ALS Vial : 11 Sample Multiplier: 1

Instrument :
 MSVOA_W
 ClientSampleId :
 2S-H4-(0-1)

Quant Time: Aug 04 01:44:41 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_W\METHOD\82W072719S.M
 Quant Title : SW846 8260
 QLast Update : Sat Jul 27 00:23:30 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	7.95	168	213964	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	8.84	114	364470	50.00	ug/l	0.00
63) Chlorobenzene-d5	11.63	117	296232	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.56	152	108409	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	143767	58.52	ug/l	0.00
Spiked Amount 50.000			Recovery	=	117.04%	
35) Dibromofluoromethane	7.88	113	112104	54.83	ug/l	0.00
Spiked Amount 50.000			Recovery	=	109.66%	
50) Toluene-d8	10.32	98	446824	53.37	ug/l	0.00
Spiked Amount 50.000			Recovery	=	106.74%	
62) 4-Bromofluorobenzene	12.62	95	135504	45.40	ug/l	0.00
Spiked Amount 50.000			Recovery	=	90.80%	

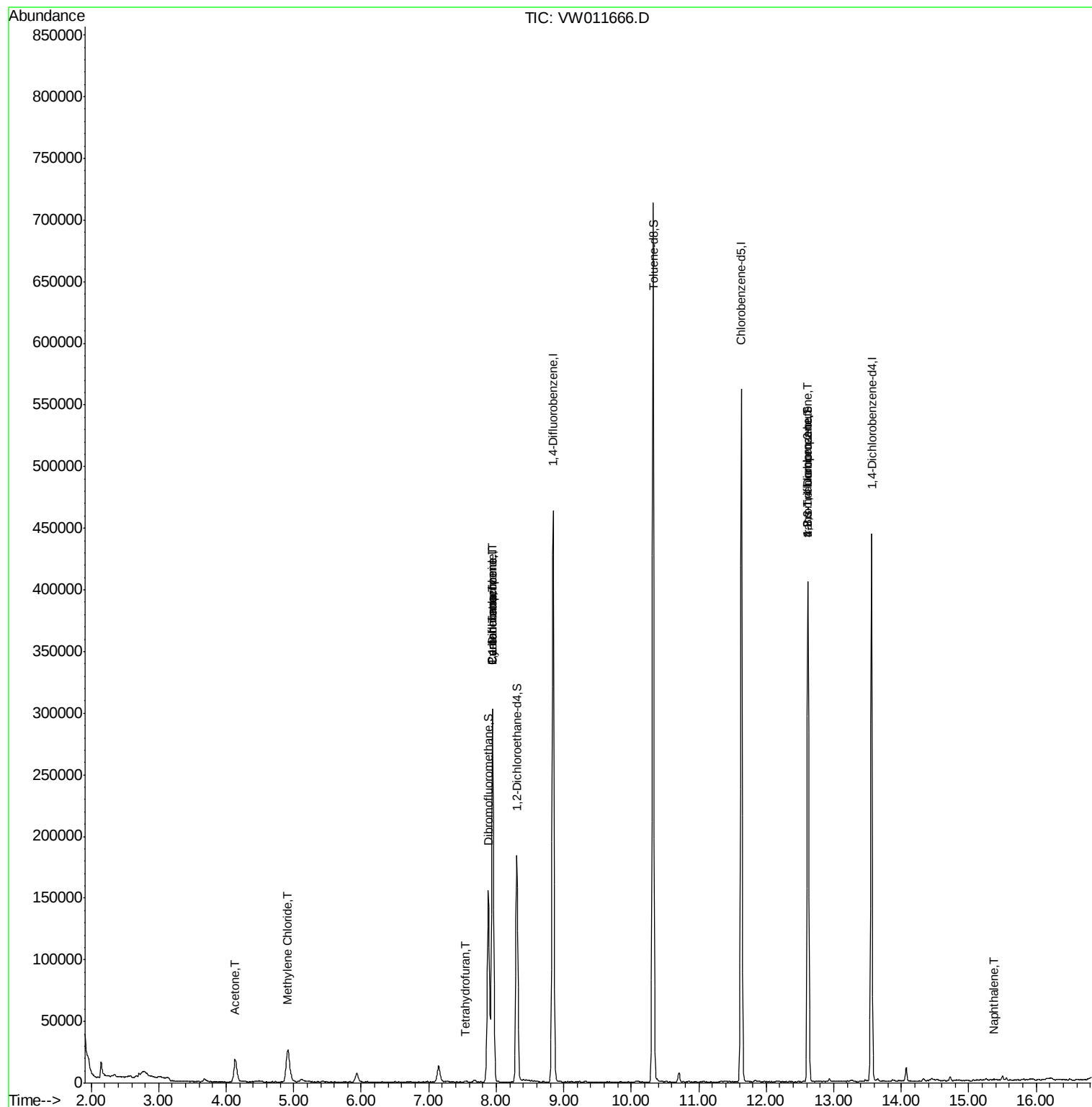
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
11) Tert butyl alcohol	5.18	59	83	Below Cal	#	72
16) Acetone	4.14	43	37631	48.150	ug/l	98
20) Methylene Chloride	4.92	84	21438	7.954	ug/l	95
29) Tetrahydrofuran	7.55	42	696	1.191	ug/l #	66
31) Cyclohexane	7.95	56	5536	1.205	ug/l #	1
36) 1,1-Dichloropropene	7.95	75	19026	5.020	ug/l #	51
38) Carbon Tetrachloride	7.95	117	21988	6.777	ug/l #	16
76) 1,2,3-Trichloropropane	12.62	75	72576	63.270	ug/l #	100
81) trans-1,4-Dichloro-2-buten	12.62	75	72576	145.814	ug/l #	6
95) Naphthalene	15.37	128	394	2.154	ug/l #	85

(#) = 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: VW011666.D

Acq: 03 Aug 2019 15:22

Instrument :

MSVOA_W

ClientSampleId :

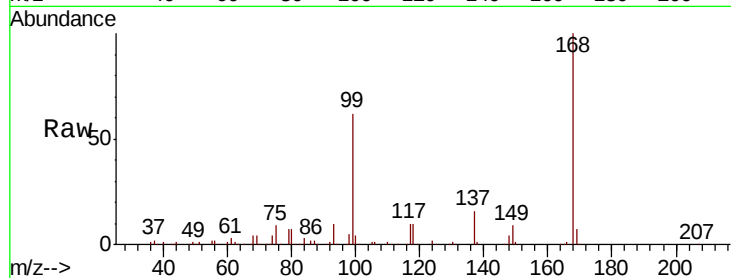
2S-H4-(0-1)

Tgt Ion:168 Resp: 213964

Ion Ratio Lower Upper

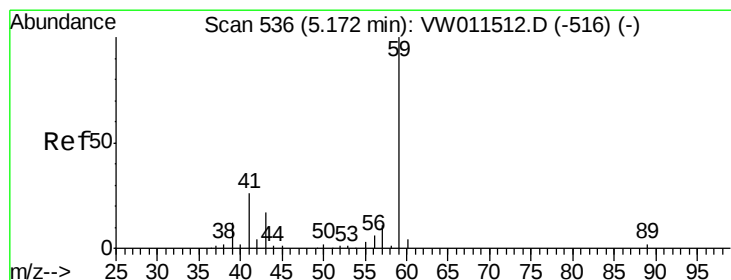
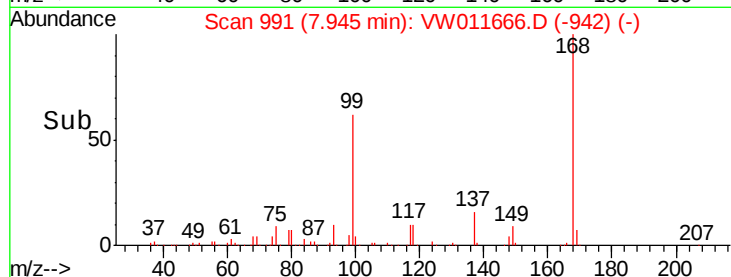
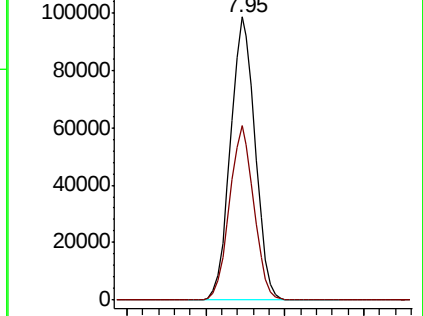
168 100

99 61.8 48.2 72.4



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VW



#11

Tert butyl alcohol

Concen: Below Cal

RT: 5.18 min Scan# 538

Delta R.T. 0.01 min

Lab File: VW011666.D

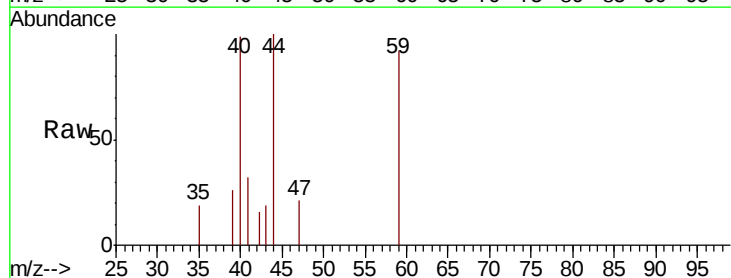
Acq: 03 Aug 2019 15:22

Tgt Ion: 59 Resp: 83

Ion Ratio Lower Upper

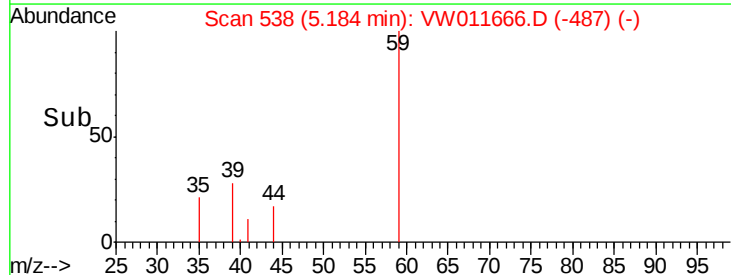
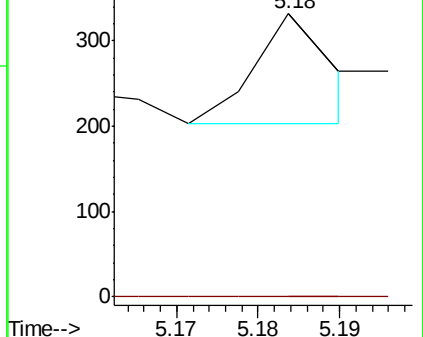
59 100

57 0.0 8.5 12.7#



Abundance Ion 59.00 (58.70 to 59.70): VW

Ion 57.00 (56.70 to 57.70): VW





#16

Acetone

Concen: 48.150 ug/l

RT: 4.14 min Scan# 367

Delta R.T. 0.02 min

Lab File: VW011666.D

Acq: 03 Aug 2019 15:22

Instrument :

MSVOA_W

ClientSampled :

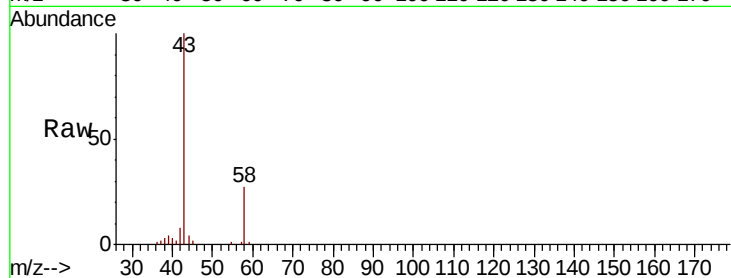
2S-H4-(0-1)

Tgt Ion: 43 Resp: 37631

Ion Ratio Lower Upper

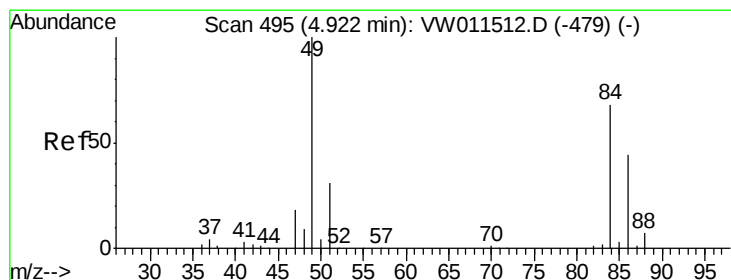
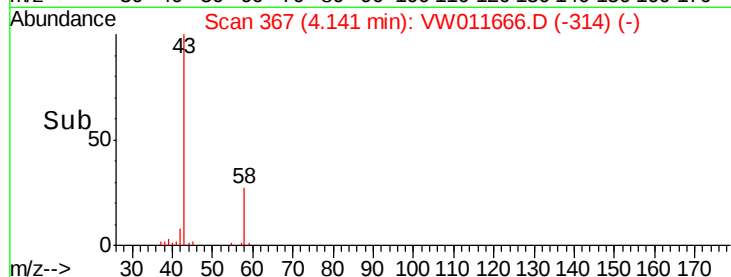
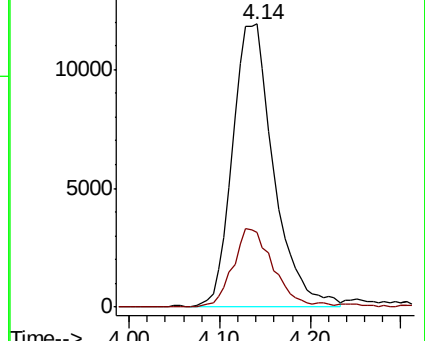
43 100

58 26.6 22.3 33.5



Abundance Ion 43.00 (42.70 to 43.70): VW

Ion 58.00 (57.70 to 58.70): VW



#20

Methylene Chloride

Concen: 7.954 ug/l

RT: 4.92 min Scan# 494

Delta R.T. -0.01 min

Lab File: VW011666.D

Acq: 03 Aug 2019 15:22

Tgt Ion: 84 Resp: 21438

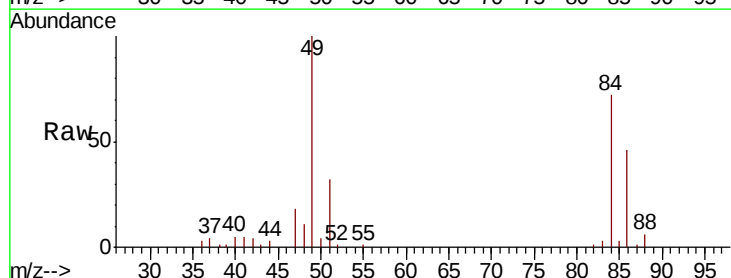
Ion Ratio Lower Upper

84 100

49 138.4 117.8 176.6

51 44.7 37.0 55.4

86 63.1 51.8 77.8

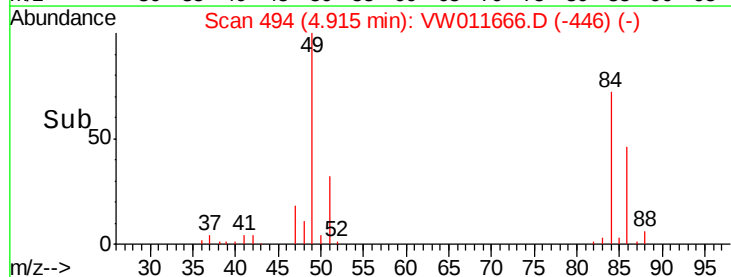
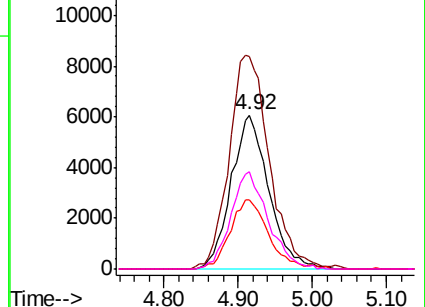


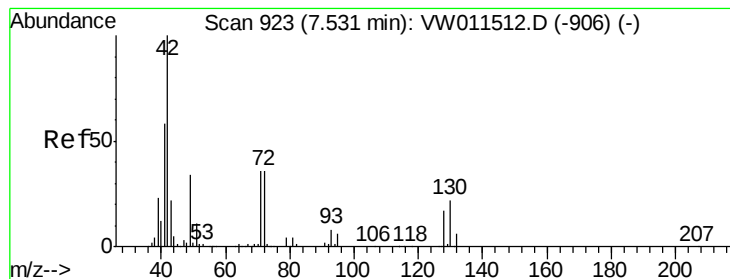
Abundance Ion 83.90 (83.60 to 84.60): VW

Ion 48.90 (48.60 to 49.60): VW

Ion 50.90 (50.60 to 51.60): VW

Ion 85.90 (85.60 to 86.60): VW





#29

Tetrahydrofuran

Concen: 1.191 ug/l

RT: 7.55 min Scan# 926

Delta R.T. 0.02 min

Lab File: VW011666.D

Acq: 03 Aug 2019 15:22

Instrument :

MSVOA_W

ClientSampleId :

2S-H4-(0-1)

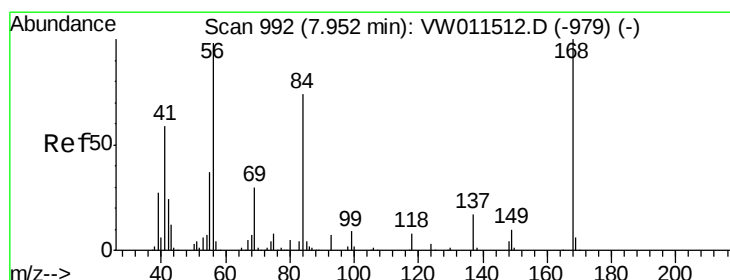
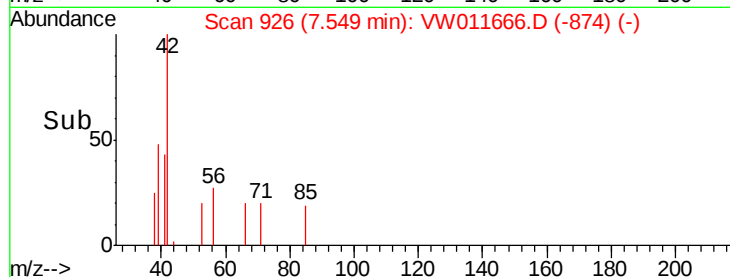
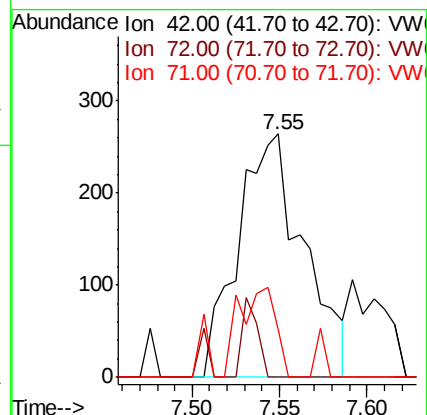
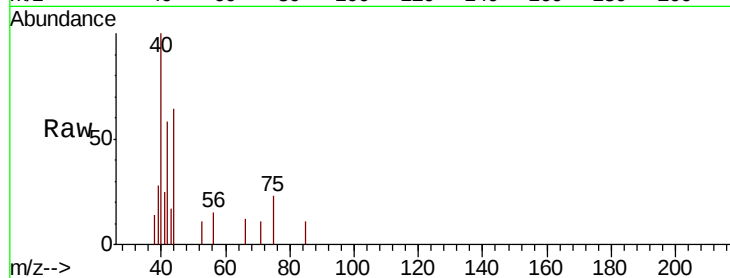
Tgt Ion: 42 Resp: 696

Ion Ratio Lower Upper

42 100

72 7.6 27.1 40.7#

71 20.4 26.2 39.4#



#31

Cyclohexane

Concen: 1.205 ug/l

RT: 7.95 min Scan# 991

Delta R.T. -0.01 min

Lab File: VW011666.D

Acq: 03 Aug 2019 15:22

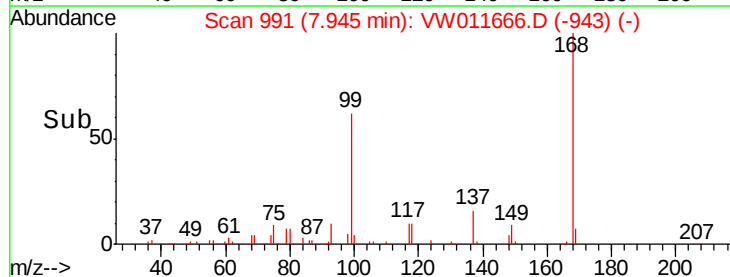
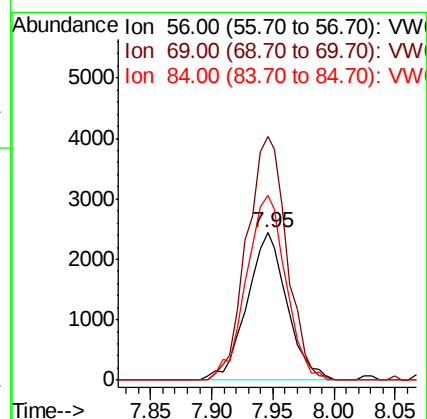
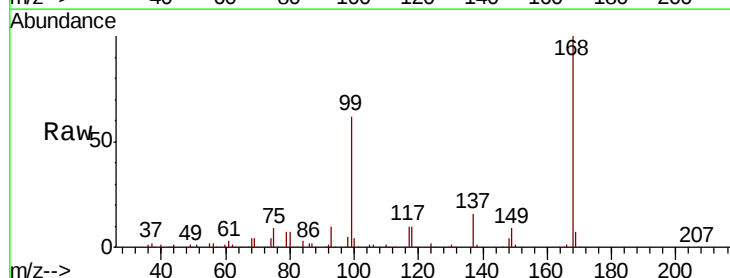
Tgt Ion: 56 Resp: 5536

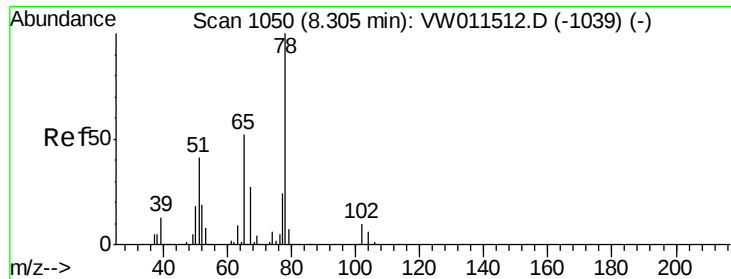
Ion Ratio Lower Upper

56 100

69 165.6 24.3 36.5#

84 125.9 60.4 90.6#

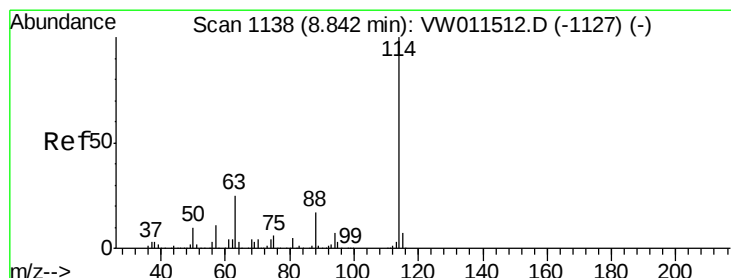
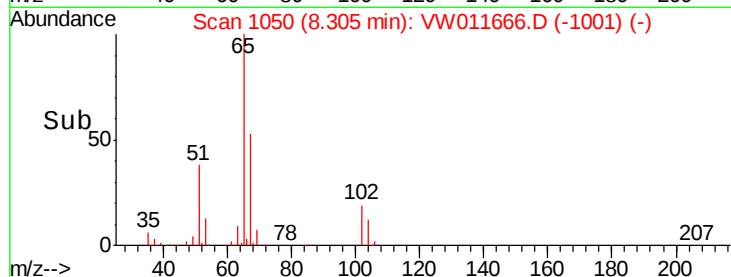
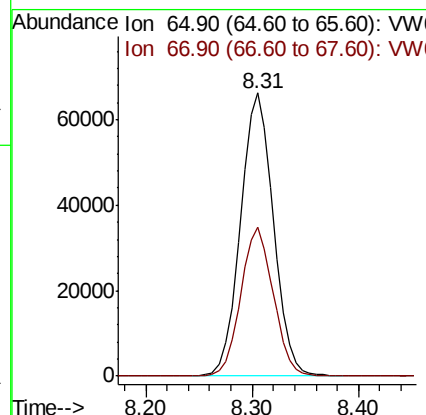
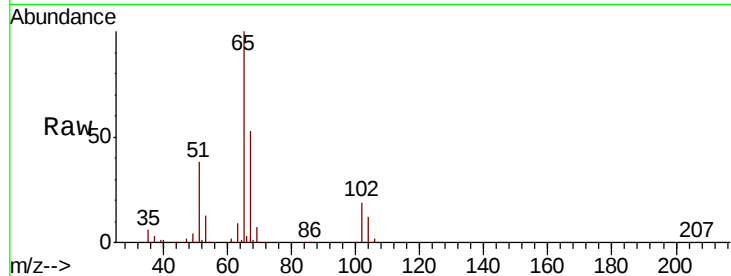




#33
 1,2-Dichloroethane-d4
 Concen: 58.516 ug/l
 RT: 8.31 min Scan# 1050
 Delta R.T. -0.00 min
 Lab File: VW011666.D
 Acq: 03 Aug 2019 15:22

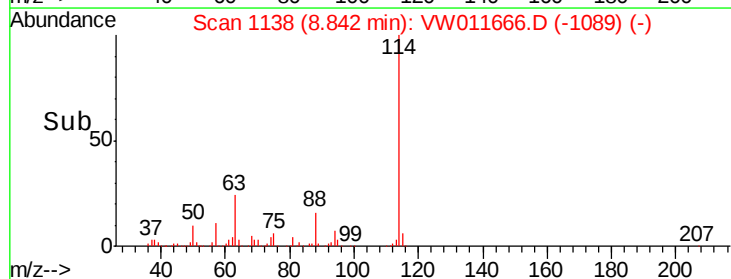
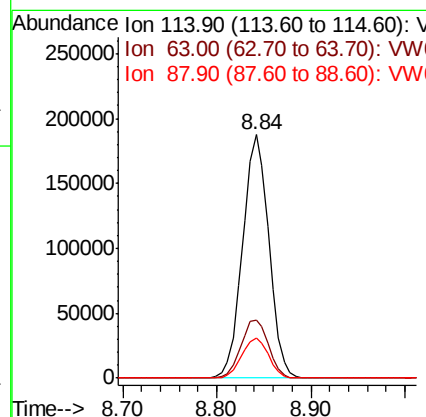
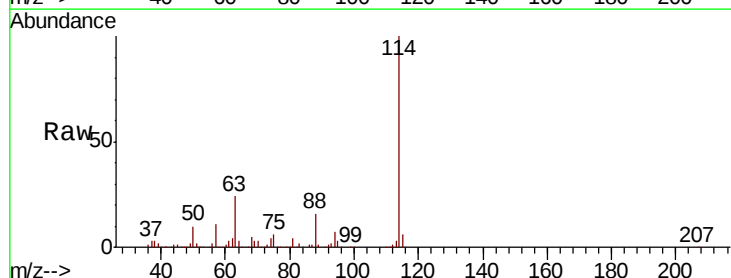
Instrument :
 MSVOA_W
 ClientSampleId :
 2S-H4-(0-1)

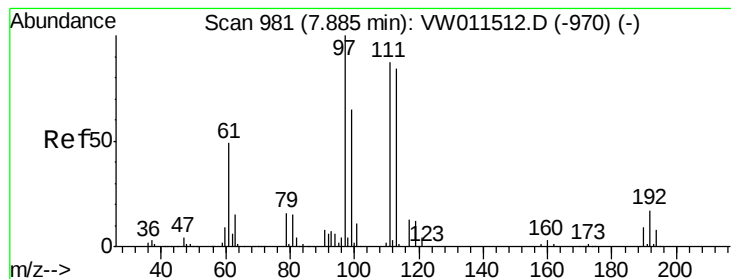
Tgt Ion: 65 Resp: 143767
 Ion Ratio Lower Upper
 65 100
 67 51.9 0.0 105.2



#34
 1,4-Difluorobenzene
 Concen: 50.000 ug/l
 RT: 8.84 min Scan# 1138
 Delta R.T. -0.00 min
 Lab File: VW011666.D
 Acq: 03 Aug 2019 15:22

Tgt Ion: 114 Resp: 364470
 Ion Ratio Lower Upper
 114 100
 63 23.8 0.0 49.2
 88 16.4 0.0 33.8





#35

Dibromofluoromethane

Concen: 54.826 ug/l

RT: 7.88 min Scan# 981

Delta R.T. -0.00 min

Lab File: VW011666.D

Acq: 03 Aug 2019 15:22

Instrument :

MSVOA_W

ClientSampleId :

2S-H4-(0-1)

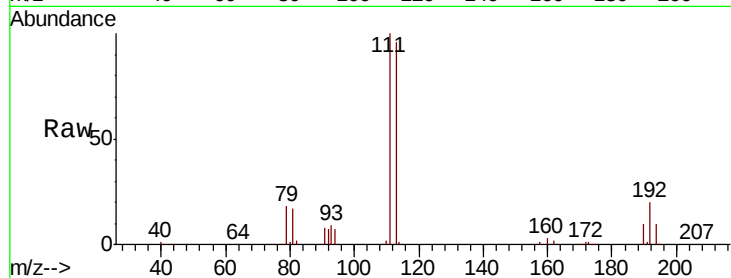
Tgt Ion:113 Resp: 112104

Ion Ratio Lower Upper

113 100

111 102.6 82.7 124.1

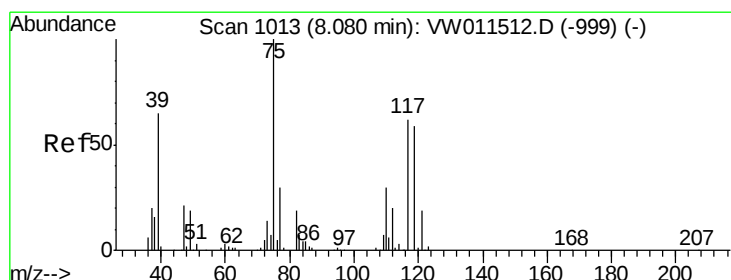
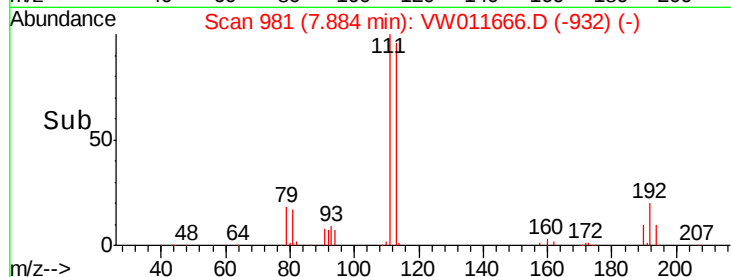
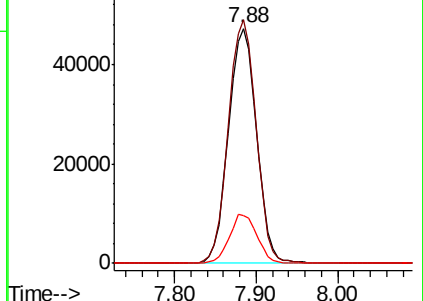
192 20.2 16.1 24.1



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: 5.020 ug/l

RT: 7.95 min Scan# 991

Delta R.T. -0.13 min

Lab File: VW011666.D

Acq: 03 Aug 2019 15:22

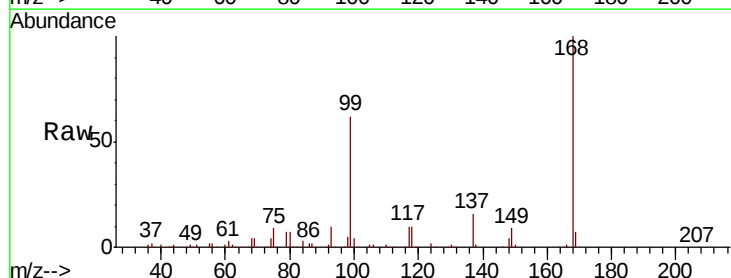
Tgt Ion: 75 Resp: 19026

Ion Ratio Lower Upper

75 100

110 8.0 15.6 46.8#

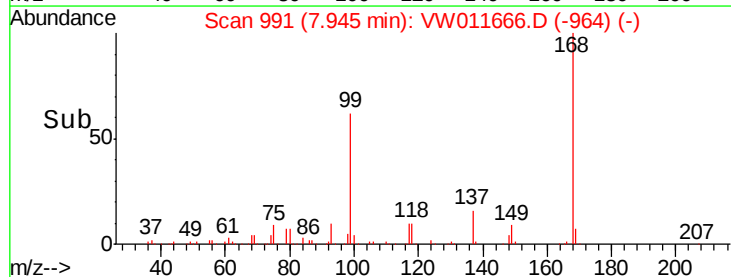
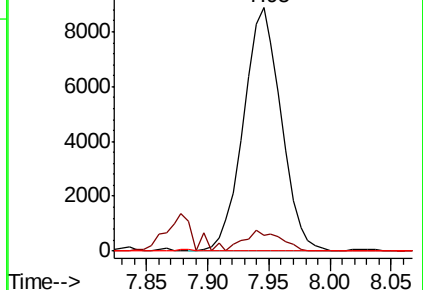
77 0.0 24.3 36.5#

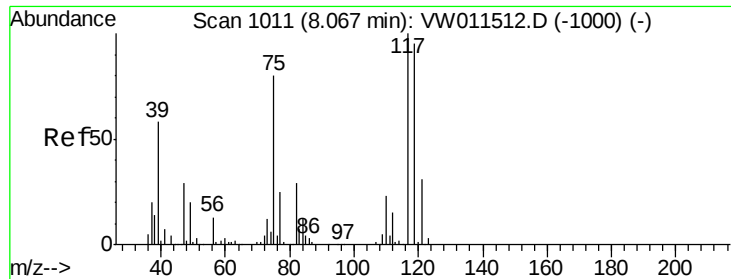


Abundance Ion 74.90 (74.60 to 75.60): VW

Ion 109.90 (109.60 to 110.60): V

Ion 76.90 (76.60 to 77.60): VW





#38

Carbon Tetrachloride

Concen: 6.777 ug/l

RT: 7.95 min Scan# 991

Delta R.T. -0.12 min

Lab File: VW011666.D

Acq: 03 Aug 2019 15:22

Instrument :

MSVOA_W

ClientSampleId :

2S-H4-(0-1)

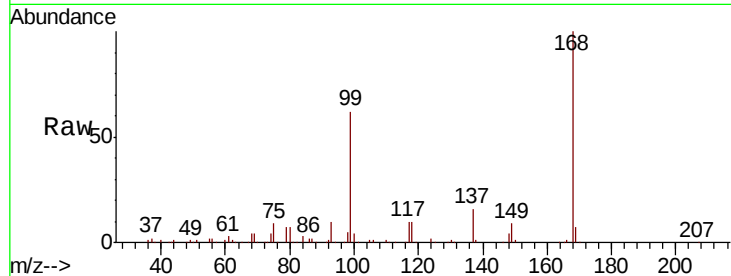
Tgt Ion:117 Resp: 21988

Ion Ratio Lower Upper

117 100

119 4.5 75.8 113.6#

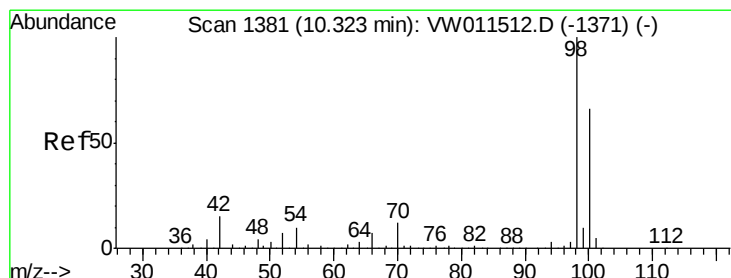
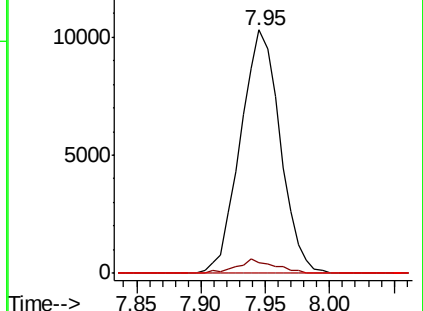
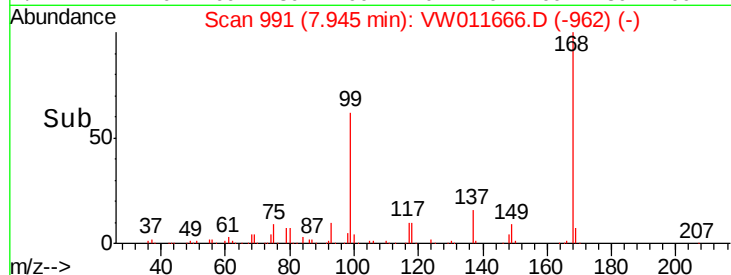
121 0.0 24.7 37.1#



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



#50

Toluene-d8

Concen: 53.373 ug/l

RT: 10.32 min Scan# 1381

Delta R.T. -0.00 min

Lab File: VW011666.D

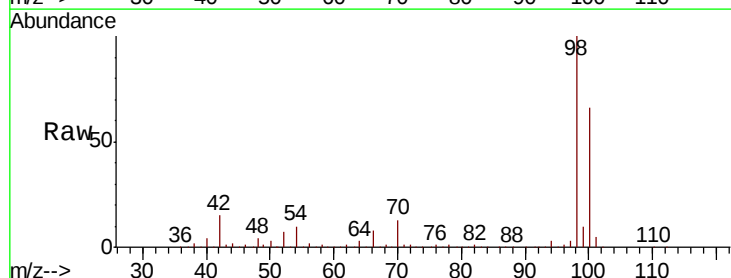
Acq: 03 Aug 2019 15:22

Tgt Ion: 98 Resp: 446824

Ion Ratio Lower Upper

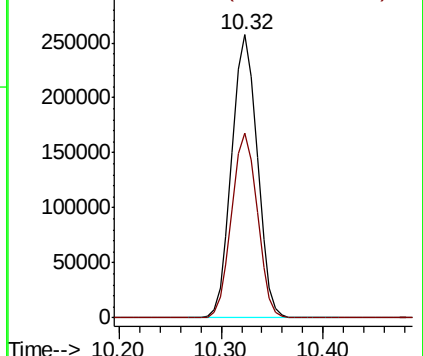
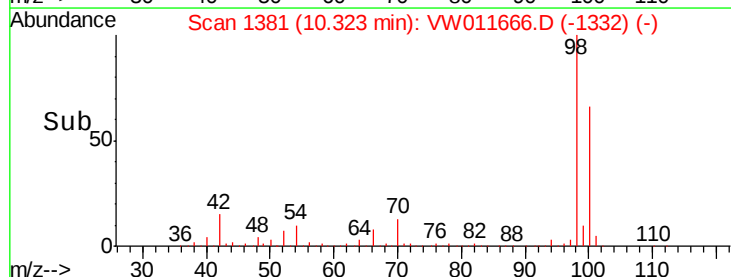
98 100

100 65.6 52.7 79.1



Abundance Ion 98.00 (97.70 to 98.70): VW

Ion 100.00 (99.70 to 100.70): VW





#62

4-Bromofluorobenzene

Concen: 45.399 ug/l

RT: 12.62 min Scan# 1757

Delta R.T. -0.00 min

Lab File: VW011666.D

Acq: 03 Aug 2019 15:22

Instrument :

MSVOA_W

ClientSampled :

2S-H4-(0-1)

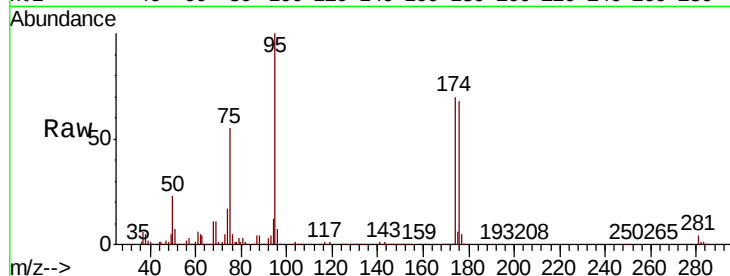
Tgt Ion: 95 Resp: 135504

Ion Ratio Lower Upper

95 100

174 75.1 0.0 150.2

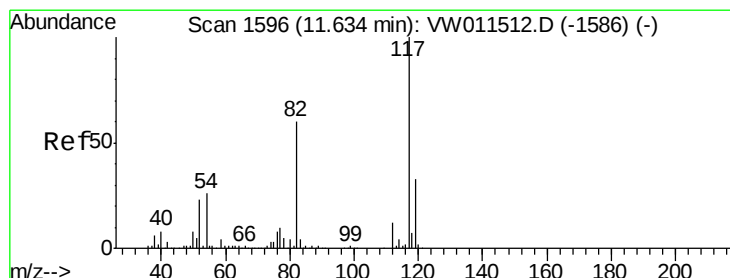
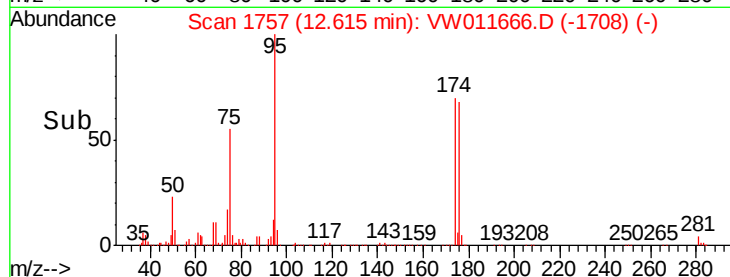
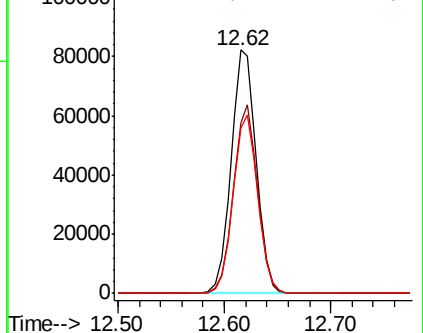
176 72.0 0.0 144.4



Abundance Ion 94.90 (94.60 to 95.60): VW

Ion 173.80 (173.50 to 174.50): VW

Ion 175.80 (175.50 to 176.50): VW



#63

Chlorobenzene-d5

Concen: 50.000 ug/l

RT: 11.63 min Scan# 1596

Delta R.T. -0.00 min

Lab File: VW011666.D

Acq: 03 Aug 2019 15:22

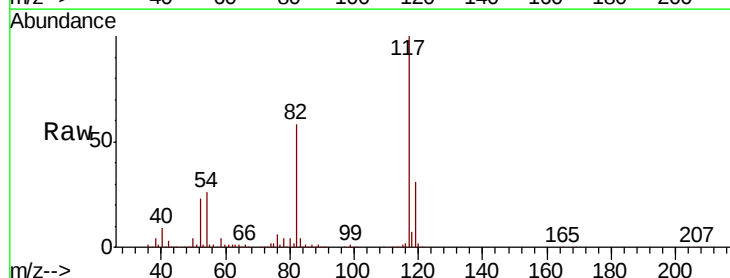
Tgt Ion: 117 Resp: 296232

Ion Ratio Lower Upper

117 100

82 57.7 47.9 71.9

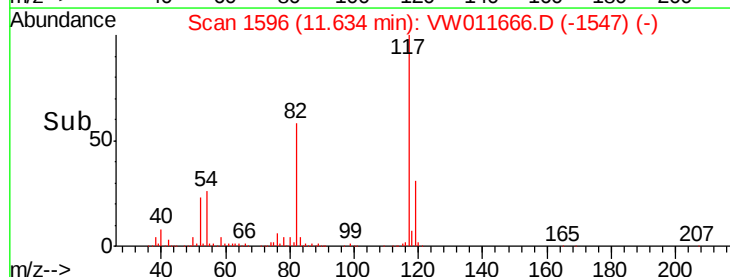
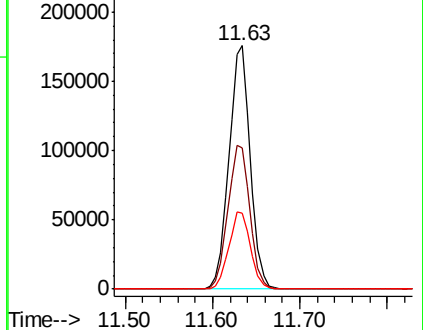
119 31.2 26.2 39.2

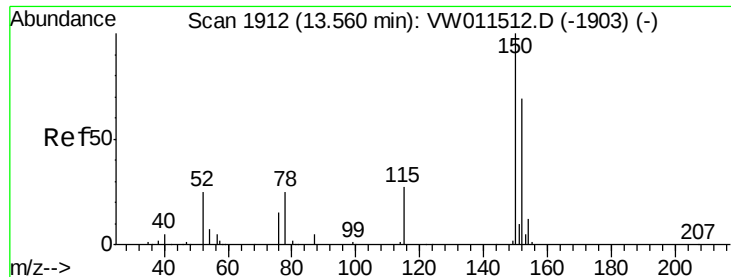


Abundance Ion 116.90 (116.60 to 117.60): VW

Ion 82.00 (81.70 to 82.70): VW

Ion 118.90 (118.60 to 119.60): VW





#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

RT: 13.56 min Scan# 1912

Delta R.T. -0.00 min

Lab File: VW011666.D

Acq: 03 Aug 2019 15:22

Instrument :

MSVOA_W

ClientSampleId :

2S-H4-(0-1)

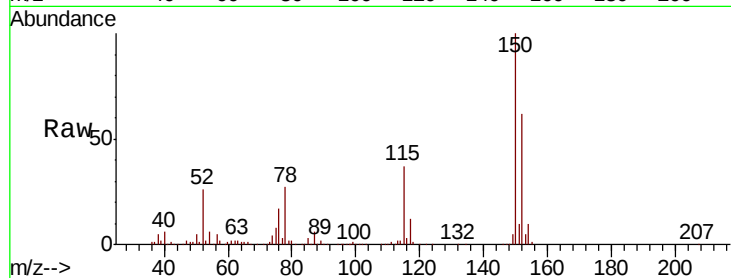
Tgt Ion: 152 Resp: 108409

Ion Ratio Lower Upper

152 100

115 61.1 30.5 91.5

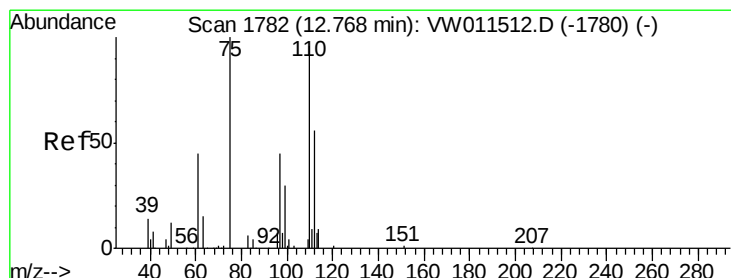
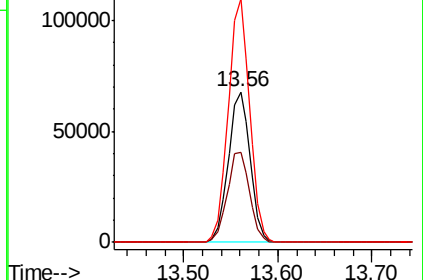
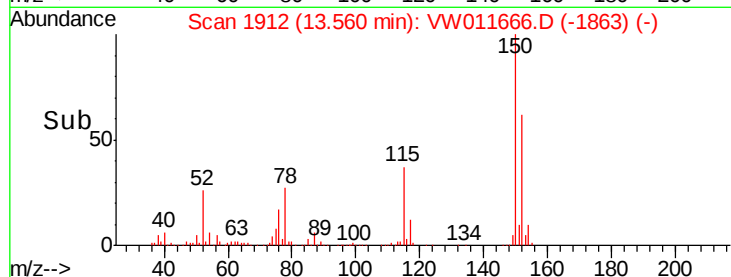
150 158.7 0.0 352.6



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: 63.270 ug/l

RT: 12.62 min Scan# 1757

Delta R.T. -0.15 min

Lab File: VW011666.D

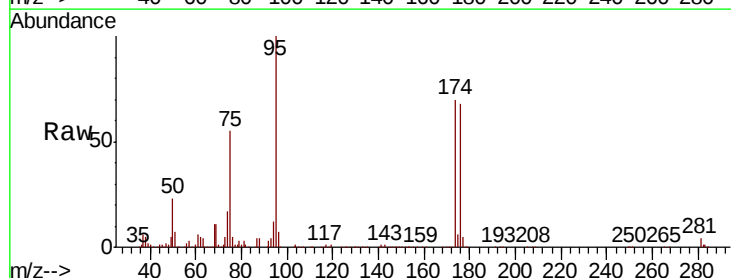
Acq: 03 Aug 2019 15:22

Tgt Ion: 75 Resp: 72576

Ion Ratio Lower Upper

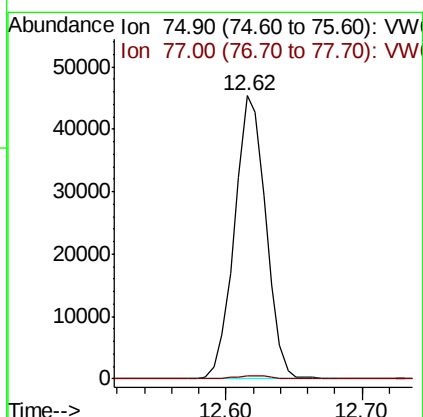
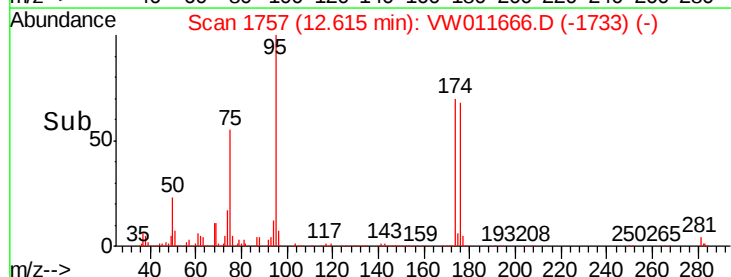
75 100

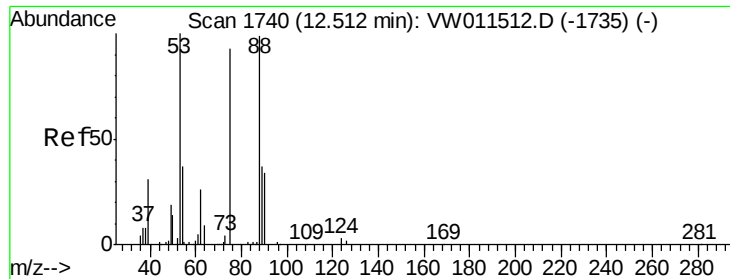
77 1.3 0.0 0.0#



Abundance Ion 74.90 (74.60 to 75.60): VW

Ion 77.00 (76.70 to 77.70): VW





#81

trans-1,4-Dichloro-2-butene

Concen: 145.814 ug/l

RT: 12.62 min Scan# 1757

Delta R.T. 0.10 min

Lab File: VW011666.D

Acq: 03 Aug 2019 15:22

Instrument :

MSVOA_W

ClientSampleId :

2S-H4-(0-1)

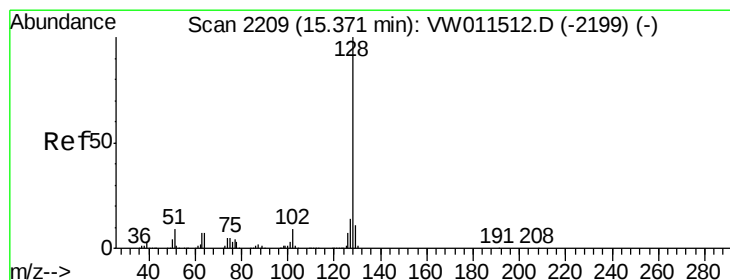
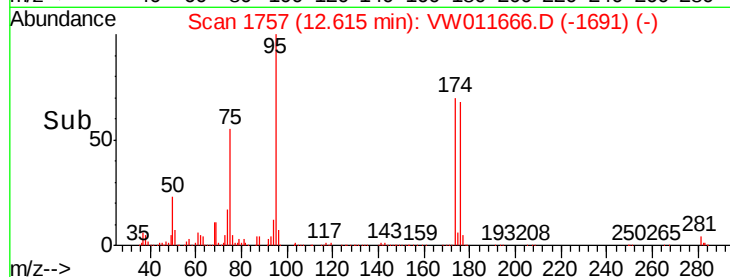
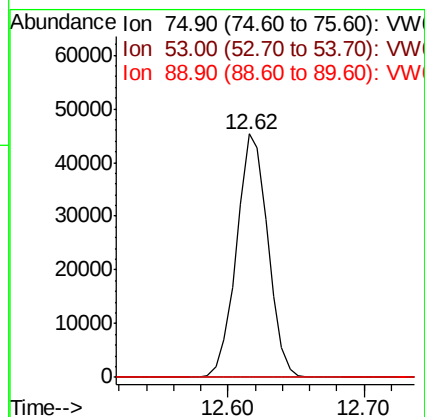
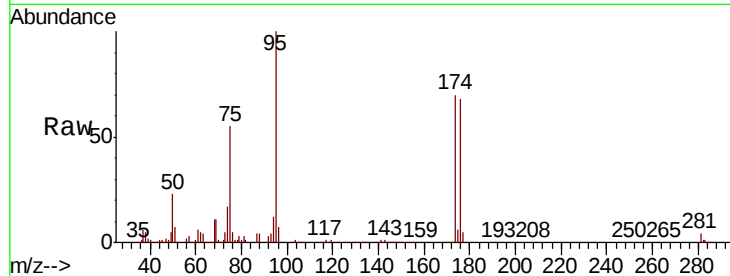
Tgt Ion: 75 Resp: 72576

Ion Ratio Lower Upper

75 100

53 0.2 88.0 132.0#

89 0.0 35.3 52.9#



#95

Naphthalene

Concen: 2.154 ug/l

RT: 15.37 min Scan# 2209

Delta R.T. 0.00 min

Lab File: VW011666.D

Acq: 03 Aug 2019 15:22

Tgt Ion: 128 Resp: 394

Ion Ratio Lower Upper

128 100

127 11.7 10.6 16.0

129 0.0 8.6 13.0#

