

Data Path : Z:\VOASRV\HPCHEM1\MSVOA W\DATA\VW082019\
 Data File : VW012029.D
 Acq On : 20 Aug 2019 14:10
 Operator : SY/VA
 Sample : K4386-14
 Misc : 5.48G/5ML/MSVOA W/SOIL
 ALS Vial : 13 Sample Multiplier: 1

Instrument :
 MSVOA_W
 ClientSampleId :

Quant Time: Aug 20 17:51:02 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	276424	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	8.84	114	457435	50.00	ug/l	0.00
63) Chlorobenzene-d5	11.63	117	377073	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.56	152	150980	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	166021	52.30	ug/l	0.00
Spiked Amount			Recovery	=	104.60%	
35) Dibromofluoromethane	7.88	113	135859	52.94	ug/l	0.00
Spiked Amount			Recovery	=	105.88%	
50) Toluene-d8	10.32	98	559269	53.23	ug/l	0.00
Spiked Amount			Recovery	=	106.46%	
62) 4-Bromofluorobenzene	12.62	95	179499	47.92	ug/l	0.00
Spiked Amount			Recovery	=	95.84%	

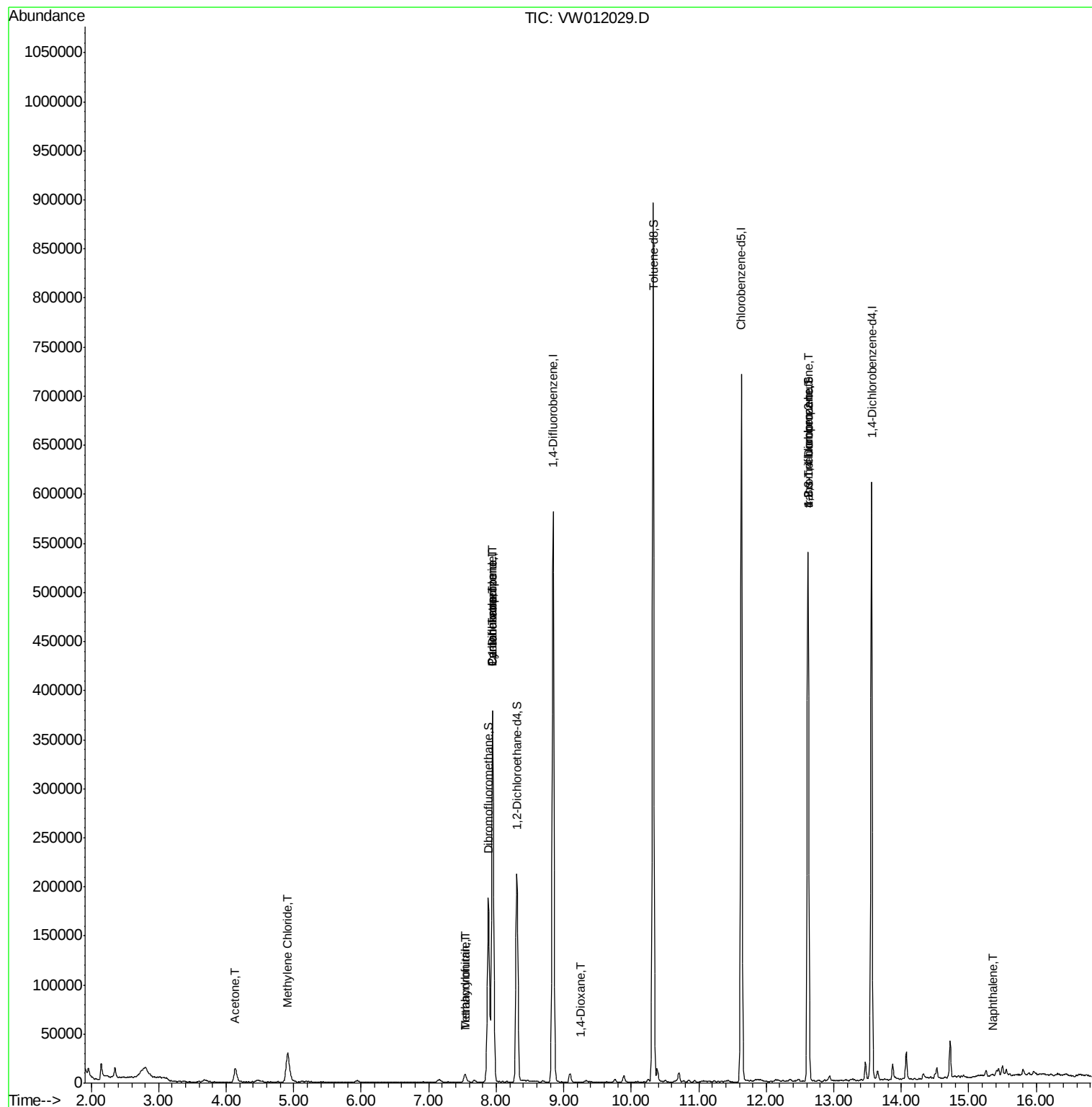
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
11) Tert butyl alcohol	5.12	59	406	Below Cal	#	72
16) Acetone	4.14	43	27923	27.655	ug/l	98
20) Methylene Chloride	4.91	84	23399	6.720	ug/l	98
29) Tetrahydrofuran	7.54	42	7397	9.795	ug/l	96
31) Cyclohexane	7.95	56	6764	1.140	ug/l #	1
36) 1,1-Dichloropropene	7.95	75	23242	4.886	ug/l #	52
38) Carbon Tetrachloride	7.95	117	27766	6.819	ug/l #	17
41) Methacrylonitrile	7.54	41	4335	2.650	ug/l #	52
49) 1,4-Dioxane	9.25	88	40	1.698	ug/l #	1
76) 1,2,3-Trichloropropane	12.62	75	94763	59.318	ug/l #	100
81) trans-1,4-Dichloro-2-buten	12.62	75	94763	136.707	ug/l #	6
95) Naphthalene	15.36	128	918	2.214	ug/l #	85

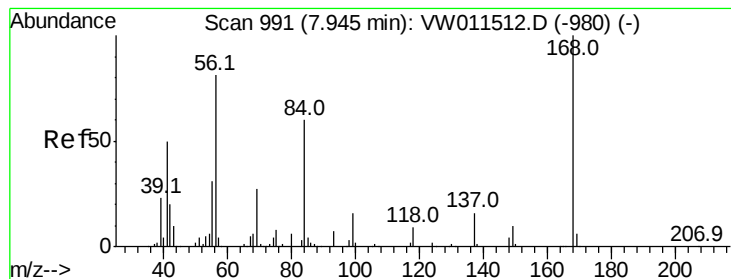
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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QLast Update : Sat Jul 27 00:23:30 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: VW012029.D

Acq: 20 Aug 2019 14:10

Instrument :

MSVOA_W

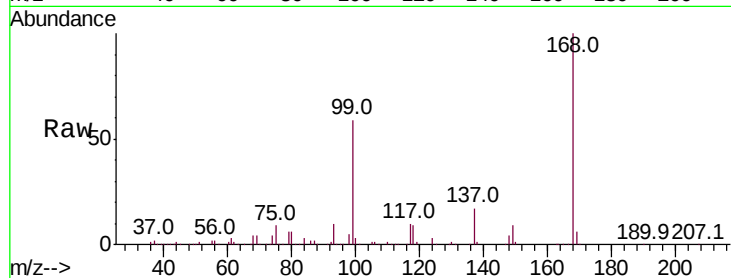
ClientSampleId :

Tot Ion:168 Resp: 276424

Ion Ratio Lower Upper

168 100

99 59.1 48.2 72.4



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VW

7.95

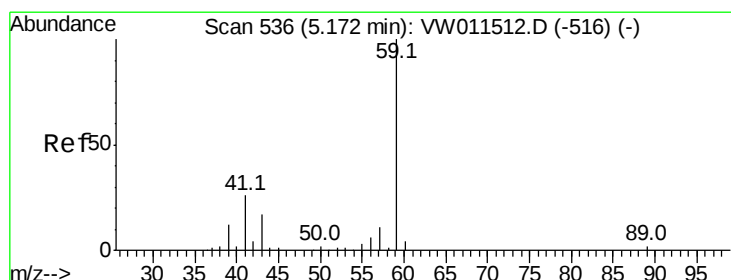
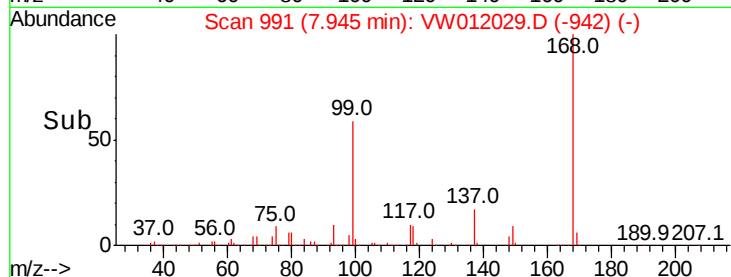
150000

100000

50000

0

Time-->



#11

Tert butyl alcohol

Concen: Below Cal

RT: 5.12 min Scan# 528

Delta R.T. -0.05 min

Lab File: VW012029.D

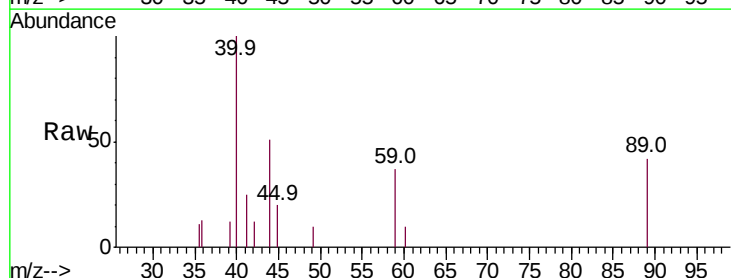
Acq: 20 Aug 2019 14:10

Tgt Ion: 59 Resp: 406

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

5.12

200

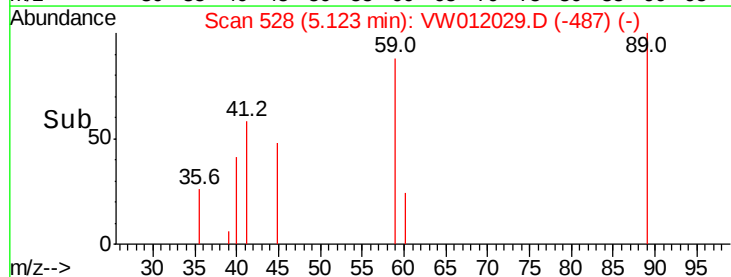
150

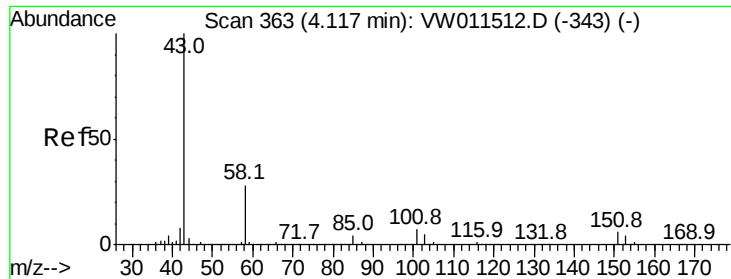
100

50

0

Time-->





#16

Acetone

Concen: 27.655 ug/l

RT: 4.14 min Scan# 366

Delta R.T. 0.02 min

Lab File: VW012029.D

Acq: 20 Aug 2019 14:10

Instrument :

MSVOA_W

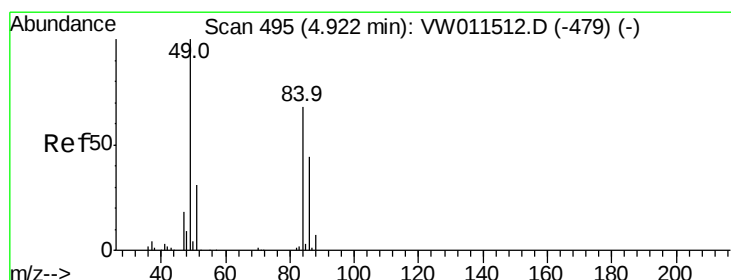
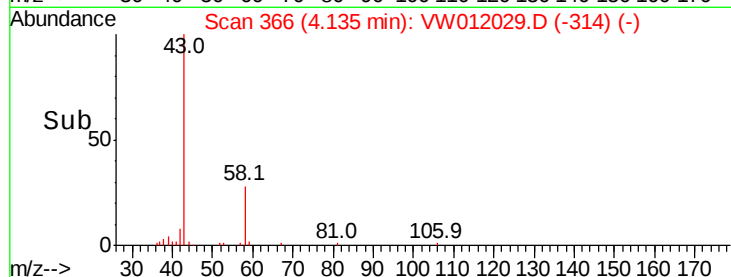
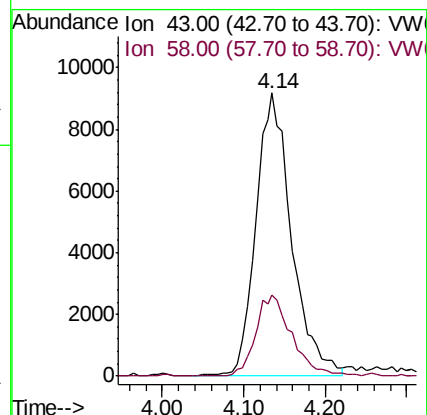
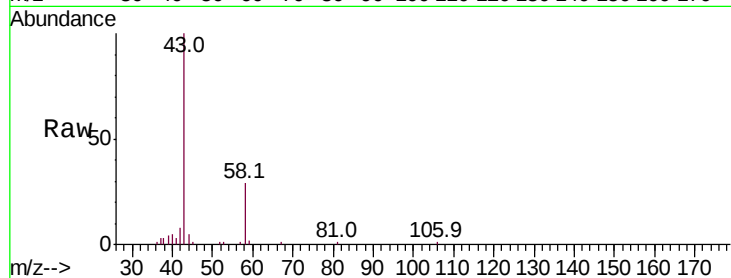
ClientSampled :

Tot Ion: 43 Resp: 27923

Ion Ratio Lower Upper

43 100

58 28.8 22.3 33.5



#20

Methylene Chloride

Concen: 6.720 ug/l

RT: 4.91 min Scan# 493

Delta R.T. -0.01 min

Lab File: VW012029.D

Acq: 20 Aug 2019 14:10

Tgt Ion: 84 Resp: 23399

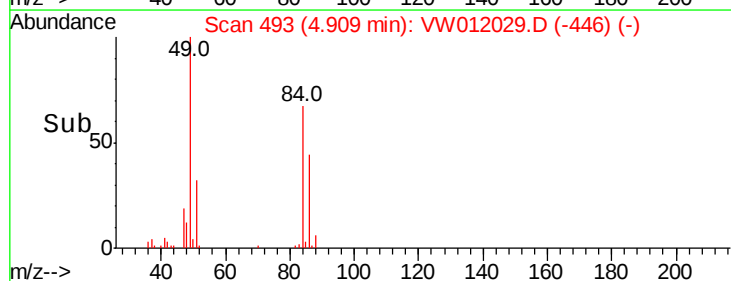
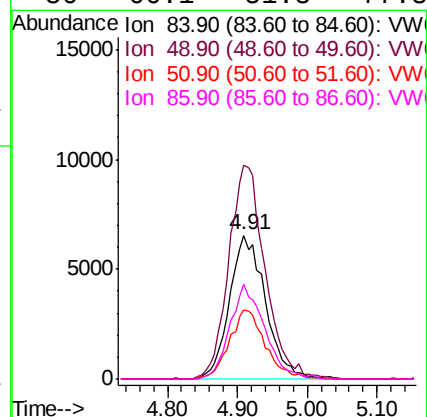
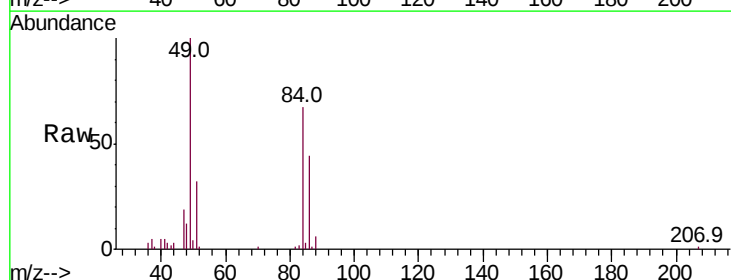
Ion Ratio Lower Upper

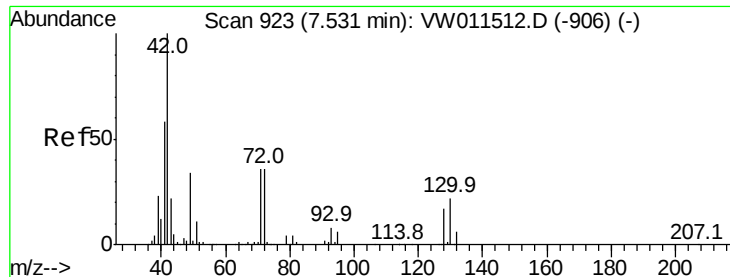
84 100

49 148.9 117.8 176.6

51 48.0 37.0 55.4

86 66.1 51.8 77.8





#29

Tetrahydrofuran

Concen: 9.795 ug/l

RT: 7.54 min Scan# 924

Delta R.T. 0.01 min

Lab File: VW012029.D

Acq: 20 Aug 2019 14:10

Instrument :

MSVOA_W

ClientSampleId :

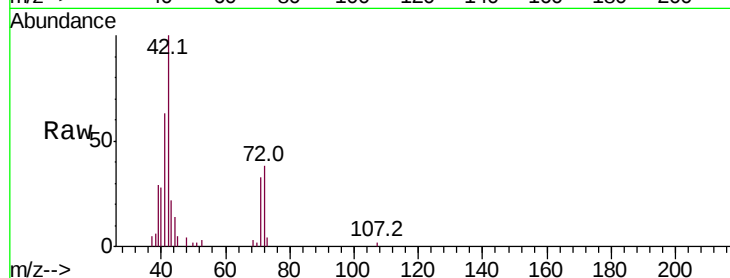
Tot Ion: 42 Resp: 7397

Ion Ratio Lower Upper

42 100

72 36.1 27.1 40.7

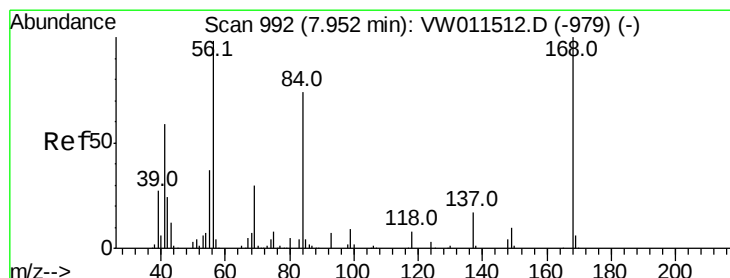
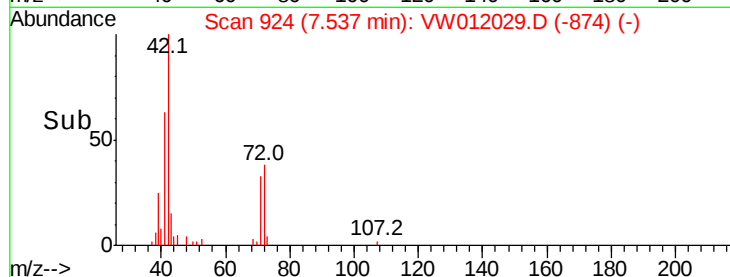
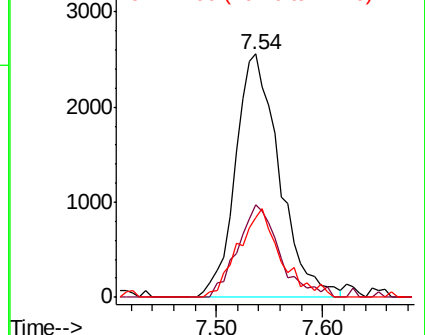
71 35.1 26.2 39.4



Abundance Ion 42.00 (41.70 to 42.70): VW

Ion 72.00 (71.70 to 72.70): VW

Ion 71.00 (70.70 to 71.70): VW



#31

Cyclohexane

Concen: 1.140 ug/l

RT: 7.95 min Scan# 991

Delta R.T. -0.01 min

Lab File: VW012029.D

Acq: 20 Aug 2019 14:10

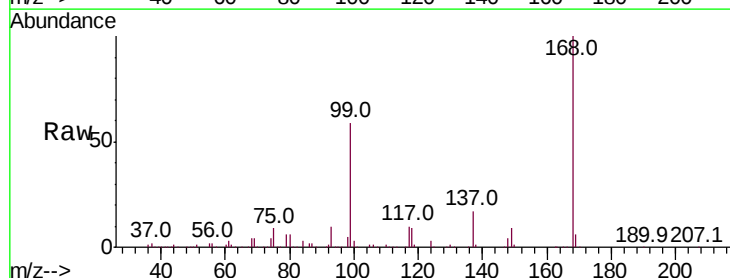
Tgt Ion: 56 Resp: 6764

Ion Ratio Lower Upper

56 100

69 173.7 24.3 36.5#

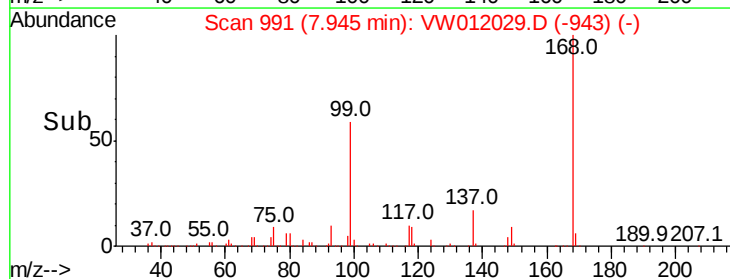
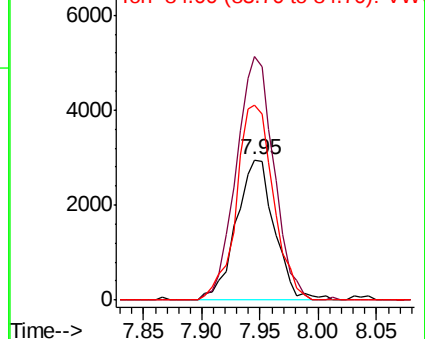
84 139.4 60.4 90.6#

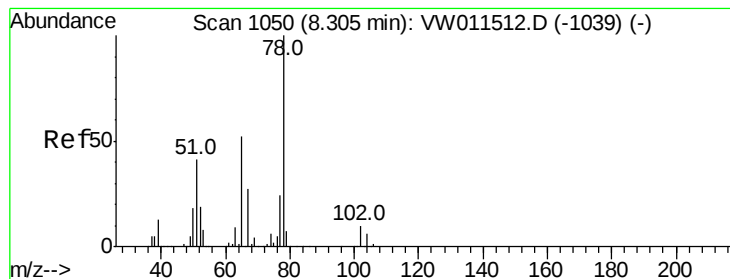


Abundance Ion 56.00 (55.70 to 56.70): VW

Ion 69.00 (68.70 to 69.70): VW

Ion 84.00 (83.70 to 84.70): VW





#33

1,2-Dichloroethane-d4

Concen: 52.305 ug/l

RT: 8.31 min Scan# 1050

Delta R.T. -0.00 min

Lab File: VW012029.D

Acq: 20 Aug 2019 14:10

Instrument :

MSVOA_W

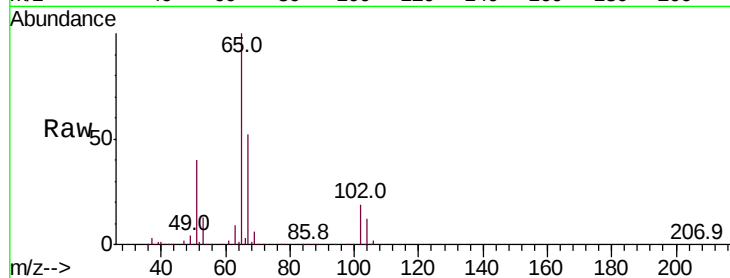
ClientSampleId :

Tot Ion: 65 Resp: 166021

Ion Ratio Lower Upper

65 100

67 52.4 0.0 105.2



Abundance Ion 64.90 (64.60 to 65.60): VW

Ion 66.90 (66.60 to 67.60): VW

8.31

80000

60000

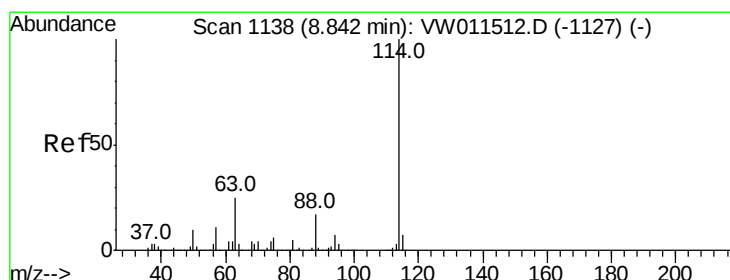
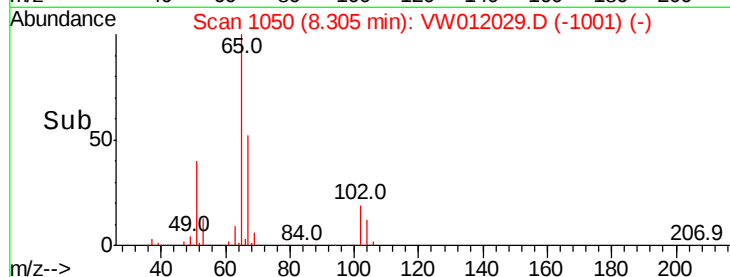
40000

20000

0

8.20 8.30 8.40

Time-->



#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 8.84 min Scan# 1138

Delta R.T. -0.00 min

Lab File: VW012029.D

Acq: 20 Aug 2019 14:10

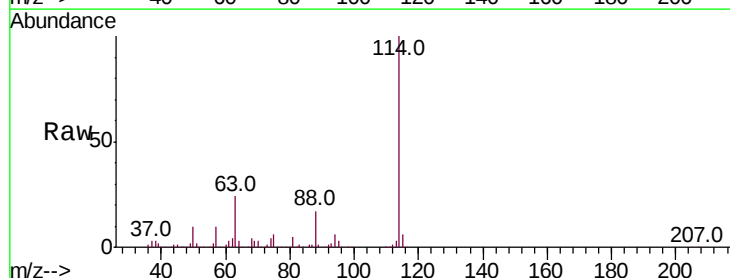
Tgt Ion: 114 Resp: 457435

Ion Ratio Lower Upper

114 100

63 24.5 0.0 49.2

88 16.7 0.0 33.8



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

8.84

300000

250000

200000

150000

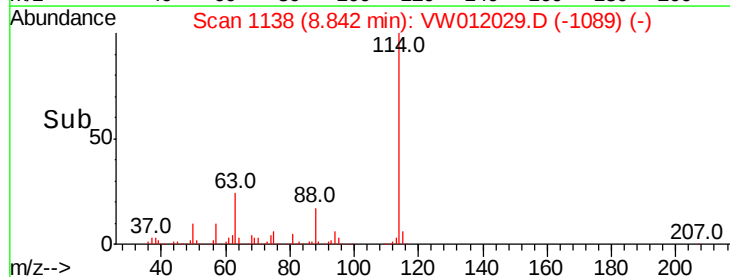
100000

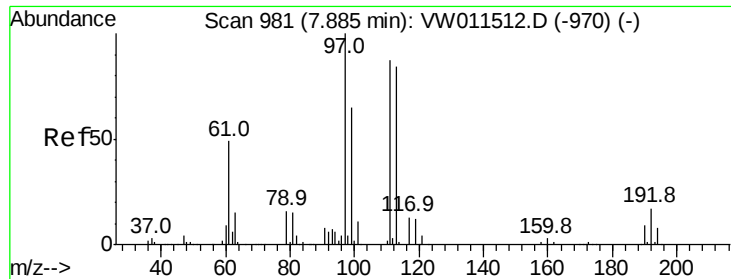
50000

0

8.75 8.80 8.85 8.90 8.95

Time-->

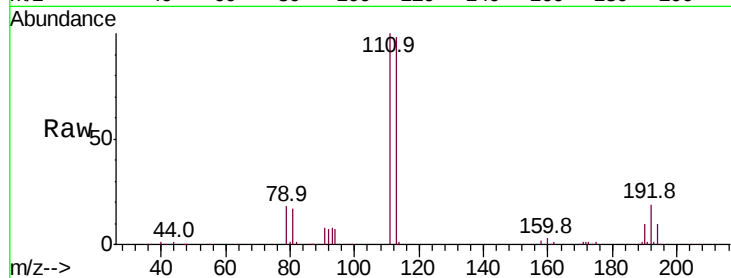




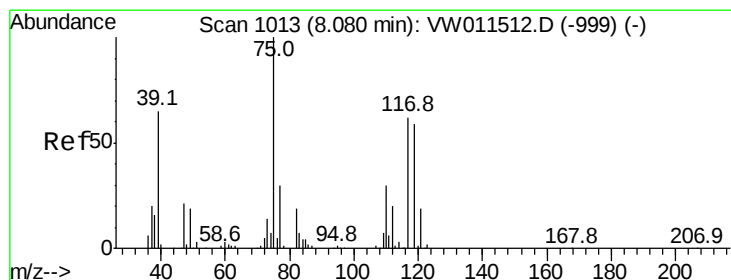
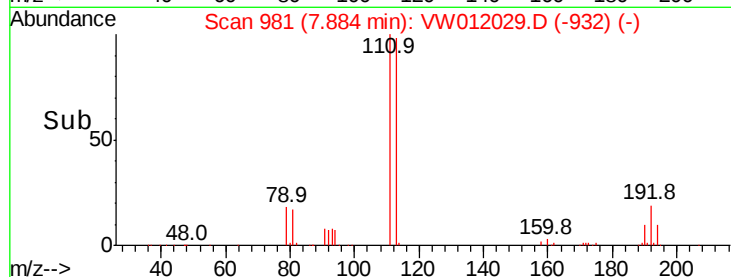
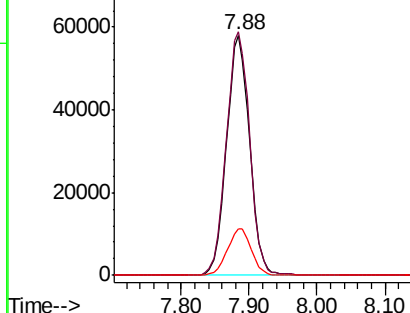
#35
 Dibromofluoromethane
 Concen: 52.940 ug/l
 RT: 7.88 min Scan# 981
 Delta R.T. -0.00 min
 Lab File: VW012029.D
 Acq: 20 Aug 2019 14:10

Instrument :
 MSVOA_W
 ClientSampleId :

Tot Ion	Ratio	Lower	Upper
113	100		
111	102.9	82.7	124.1
192	19.9	16.1	24.1

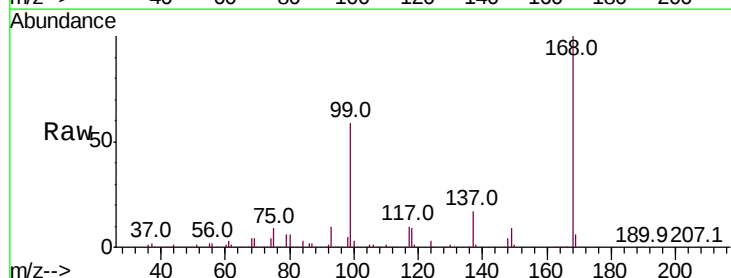


Abundance Ion 112.80 (112.50 to 113.50): V
 Ion 110.80 (110.50 to 111.50): V
 Ion 191.70 (191.40 to 192.40): V

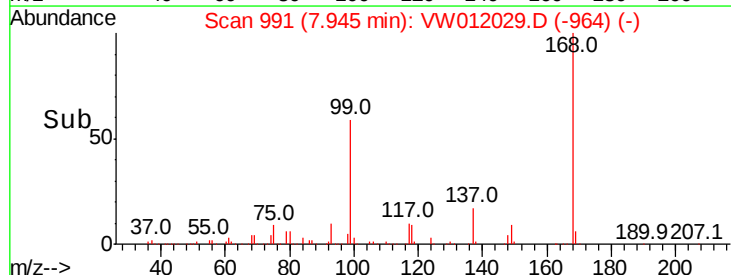
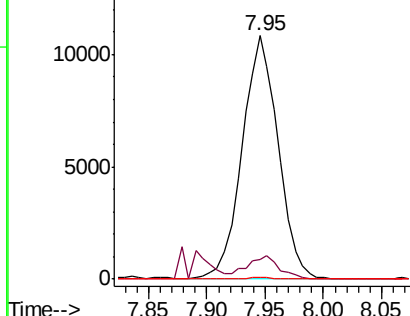


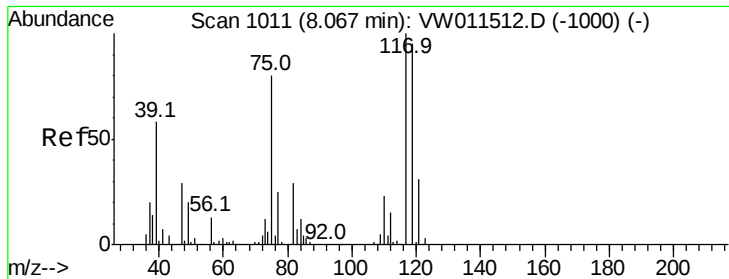
#36
 1,1-Dichloropropene
 Concen: 4.886 ug/l
 RT: 7.95 min Scan# 991
 Delta R.T. -0.13 min
 Lab File: VW012029.D
 Acq: 20 Aug 2019 14:10

Tgt Ion	Ratio	Lower	Upper
75	100		
110	8.3	15.6	46.8#
77	0.3	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: 6.819 ug/l

RT: 7.95 min Scan# 991

Delta R.T. -0.12 min

Lab File: VW012029.D

Acq: 20 Aug 2019 14:10

Instrument :

MSVOA_W

ClientSampleId :

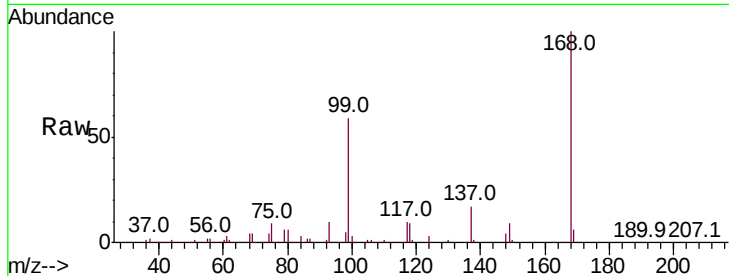
Tot Ion:117 Resp: 27766

Ion Ratio Lower Upper

117 100

119 5.4 75.8 113.6#

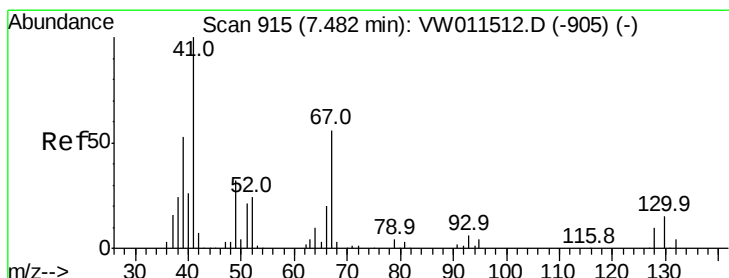
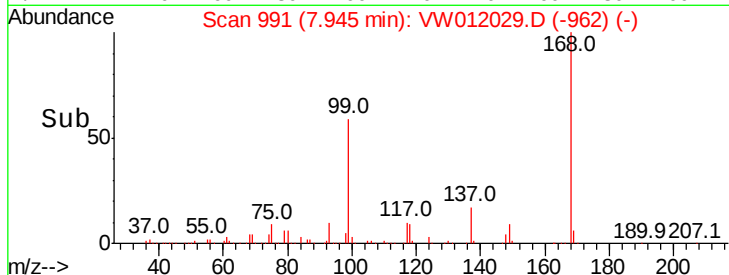
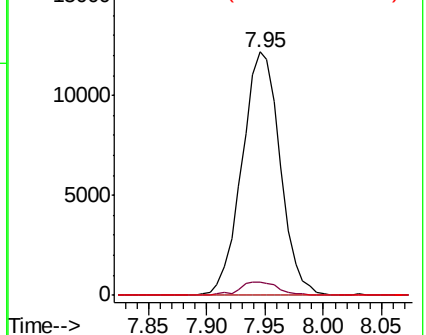
121 0.0 24.7 37.1#



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



#41

Methacrylonitrile

Concen: 2.650 ug/l

RT: 7.54 min Scan# 924

Delta R.T. 0.05 min

Lab File: VW012029.D

Acq: 20 Aug 2019 14:10

Tgt Ion: 41 Resp: 4335

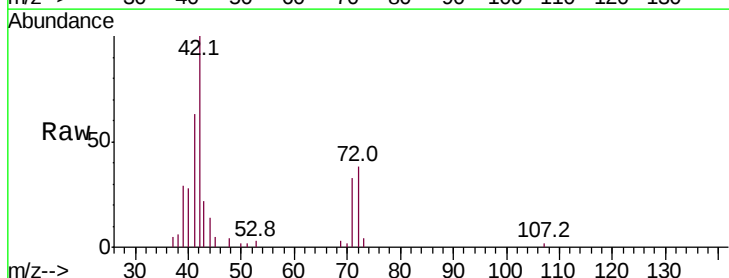
Ion Ratio Lower Upper

41 100

39 45.6 43.0 64.4

67 0.0 47.5 71.3#

52 0.0 21.0 31.6#

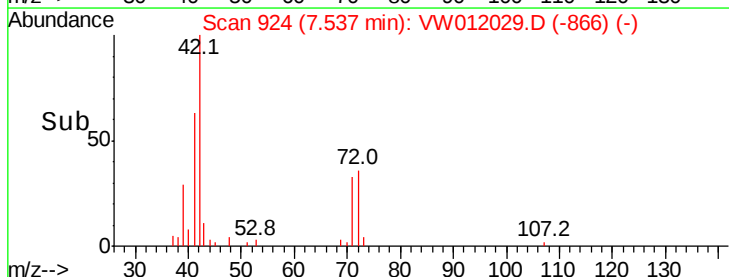
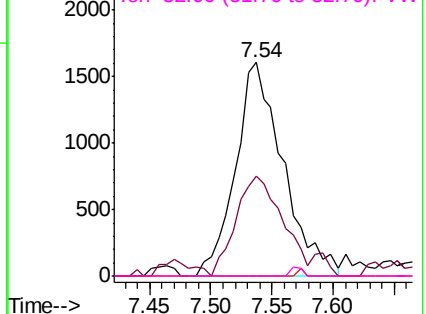


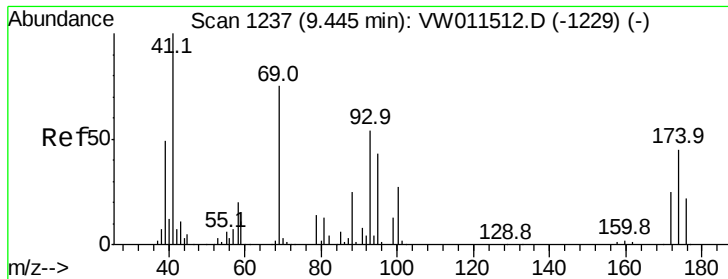
Abundance Ion 41.00 (40.70 to 41.70): VW

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: 1.698 ug/l

RT: 9.25 min Scan# 1205

Delta R.T. -0.20 min

Lab File: VW012029.D

Acq: 20 Aug 2019 14:10

Instrument :
MSVOA_W
ClientSampled :

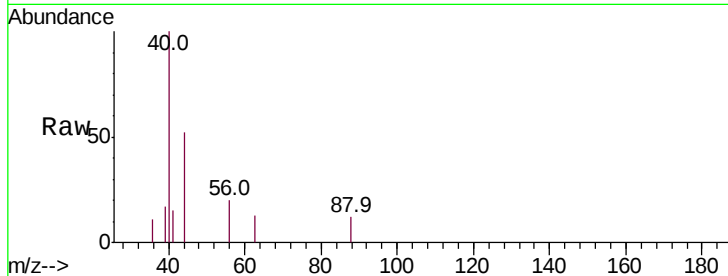
Tot Ion: 88 Resp: 40

Ion Ratio Lower Upper

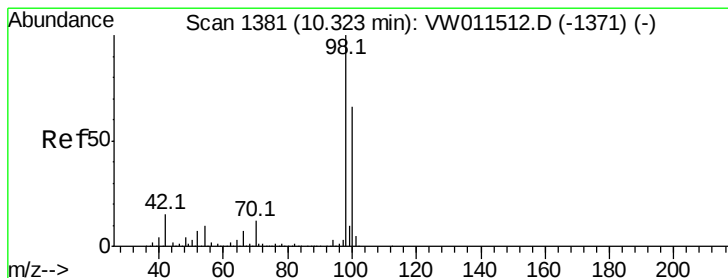
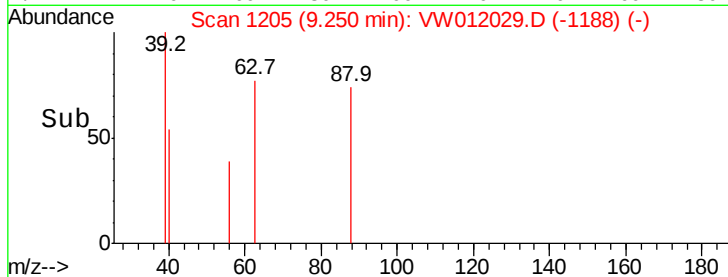
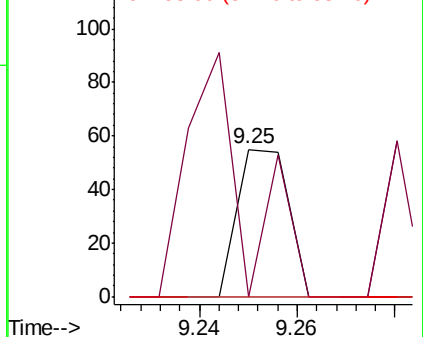
88 100

43 190.0 34.0 51.0#

58 0.0 69.7 104.5#



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: 53.227 ug/l

RT: 10.32 min Scan# 1381

Delta R.T. -0.00 min

Lab File: VW012029.D

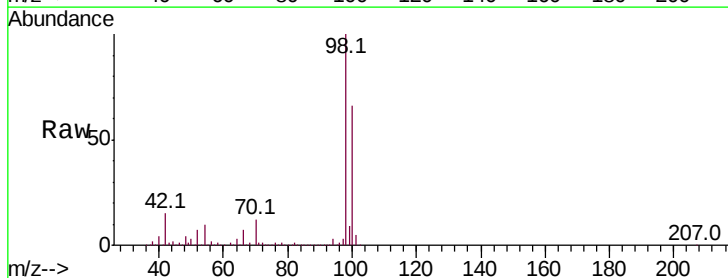
Acq: 20 Aug 2019 14:10

Tgt Ion: 98 Resp: 559269

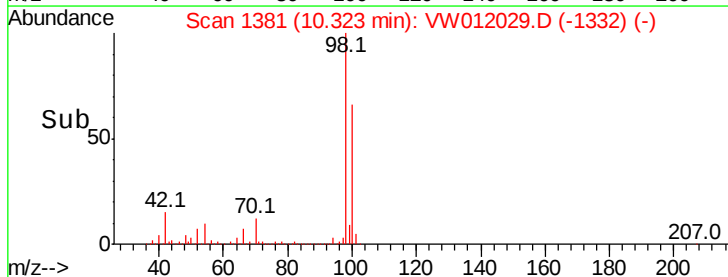
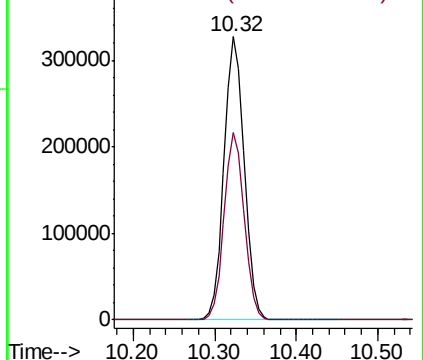
Ion Ratio Lower Upper

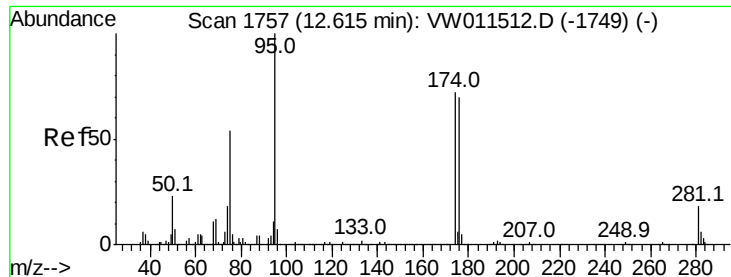
98 100

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

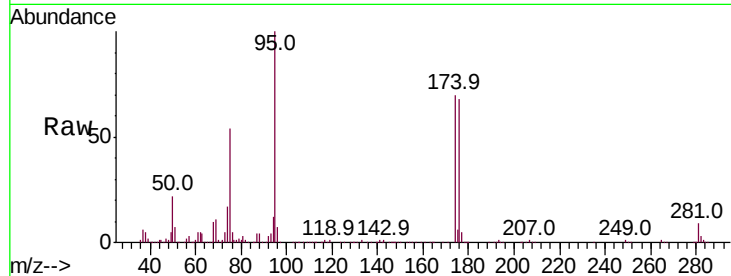




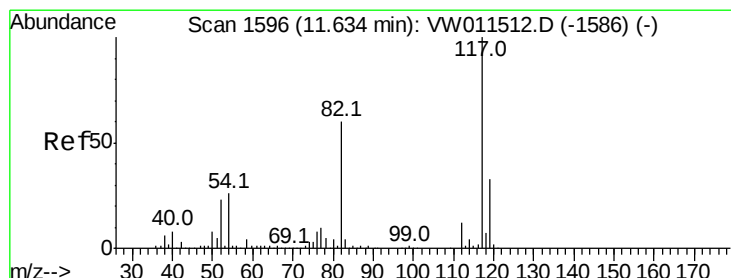
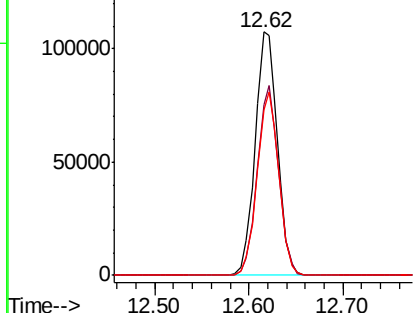
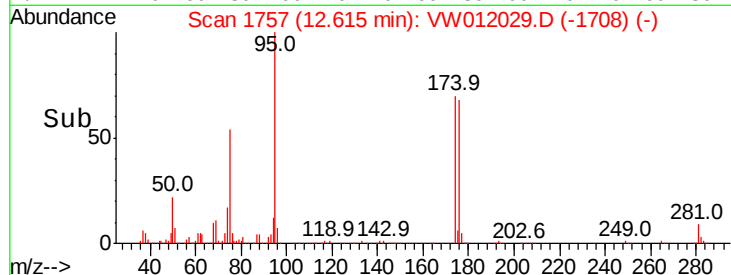
#62
4-Bromofluorobenzene
Concen: 47.917 ug/l
RT: 12.62 min Scan# 1757
Delta R.T. -0.00 min
Lab File: VW012029.D
Acq: 20 Aug 2019 14:10

Instrument :
MSVOA_W
ClientSampleId :

Tot Ion: 95 Resp: 179499
Ion Ratio Lower Upper
95 100
174 74.7 0.0 150.2
176 73.0 0.0 144.4

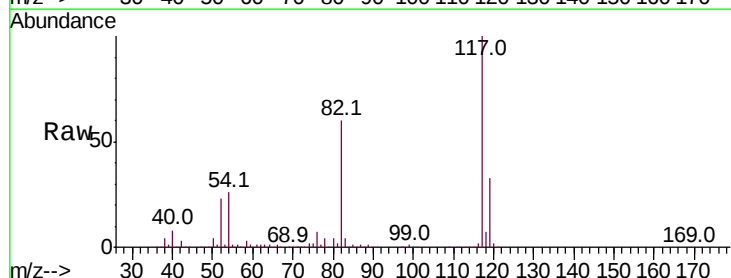


Abundance Ion 94.90 (94.60 to 95.60): VW
Ion 173.80 (173.50 to 174.50): VW
Ion 175.80 (175.50 to 176.50): VW

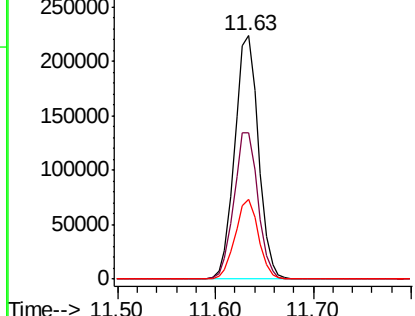
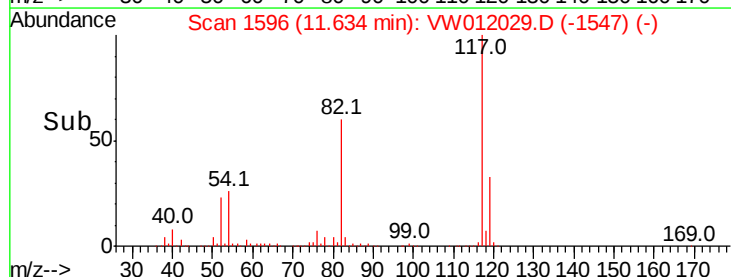


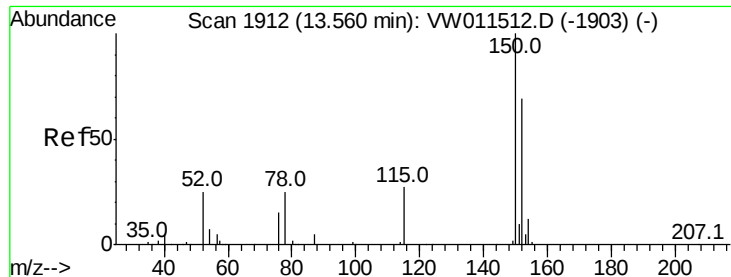
#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.63 min Scan# 1596
Delta R.T. -0.00 min
Lab File: VW012029.D
Acq: 20 Aug 2019 14:10

Tgt Ion: 117 Resp: 377073
Ion Ratio Lower Upper
117 100
82 60.2 47.9 71.9
119 32.7 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: VW012029.D

Acq: 20 Aug 2019 14:10

Instrument :

MSVOA_W

ClientSampleId :

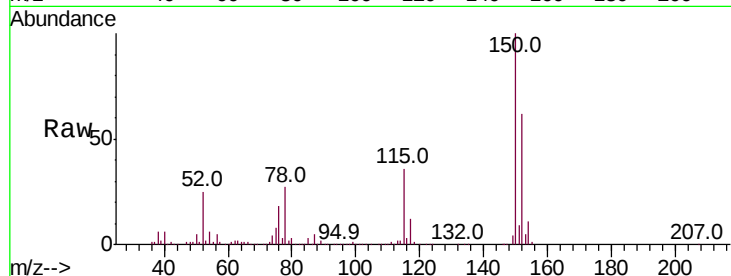
Tot Ion:152 Resp: 150980

Ion Ratio Lower Upper

152 100

115 60.5 30.5 91.5

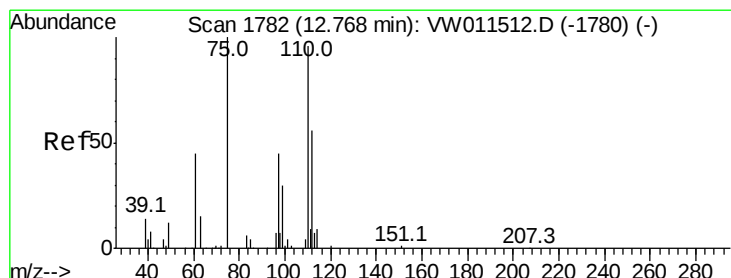
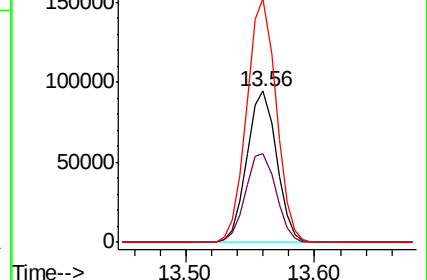
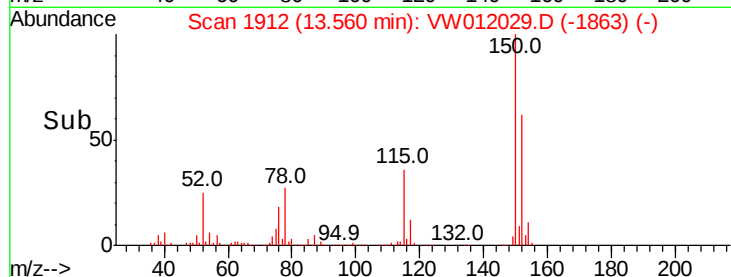
150 159.7 0.0 352.6



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: 59.318 ug/l

RT: 12.62 min Scan# 1757

Delta R.T. -0.15 min

Lab File: VW012029.D

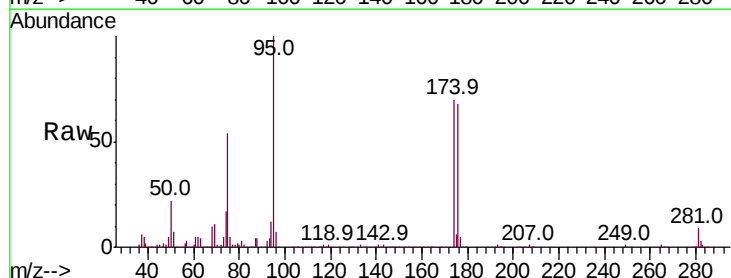
Acq: 20 Aug 2019 14:10

Tgt Ion: 75 Resp: 94763

Ion Ratio Lower Upper

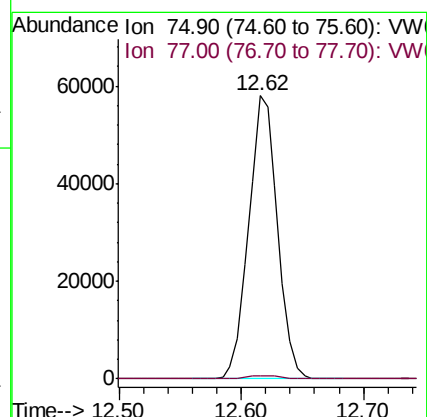
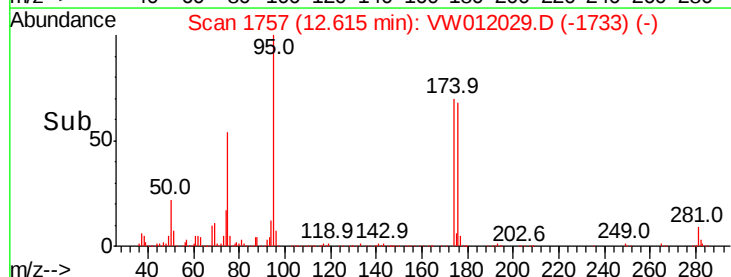
75 100

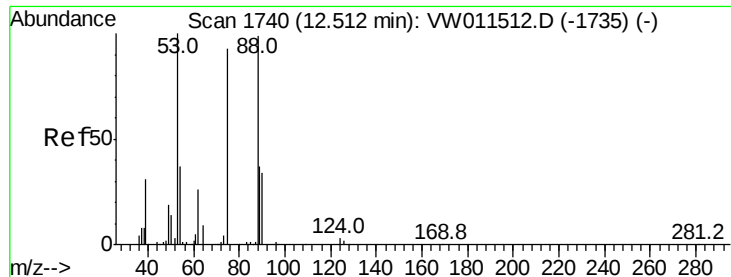
77 1.3 0.0 0.0#



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: 136.707 ug/l

RT: 12.62 min Scan# 1757

Delta R.T. 0.10 min

Lab File: VW012029.D

Acq: 20 Aug 2019 14:10

Instrument :

MSVOA_W

ClientSampleId :

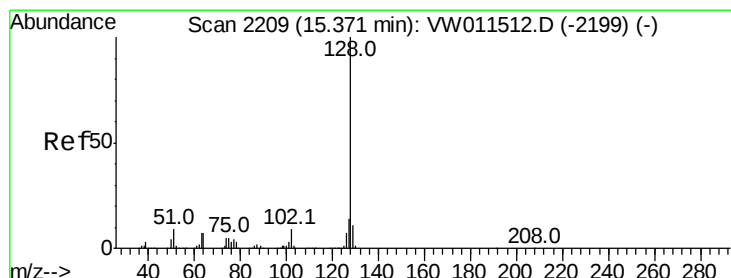
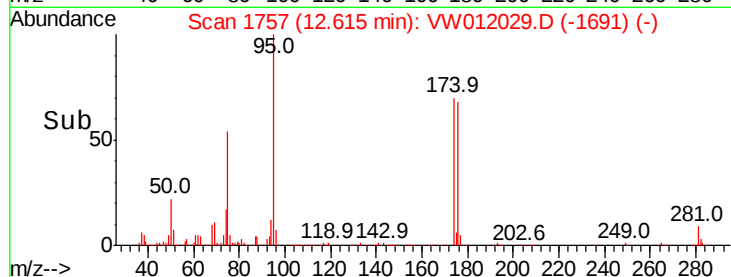
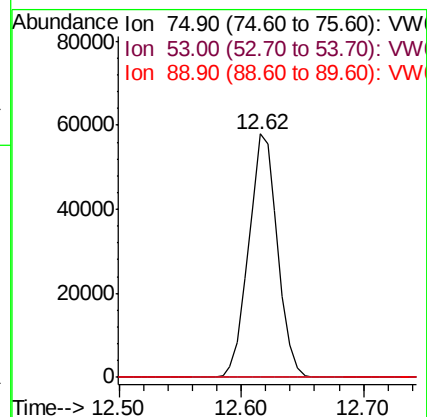
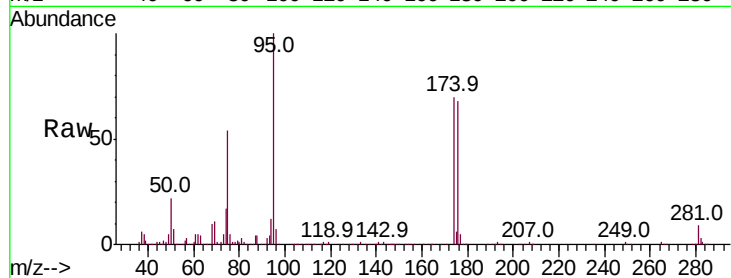
Tot Ion: 75 Resp: 94763

Ion Ratio Lower Upper

75 100

53 0.1 88.0 132.0#

89 0.0 35.3 52.9#



#95

Naphthalene

Concen: 2.214 ug/l

RT: 15.36 min Scan# 2208

Delta R.T. -0.01 min

Lab File: VW012029.D

Acq: 20 Aug 2019 14:10

Tgt Ion: 128 Resp: 918

Ion Ratio Lower Upper

128 100

127 11.9 10.6 16.0

129 0.0 8.6 13.0#

