

Data File : VW012191.D
Acq On : 27 Aug 2019 00:16
Operator : SY/VA
Sample : K4514-02
Misc : 5.16G/5ML/MSVOA_W/SOIL
ALS Vial : 35 Sample Multiplier: 1

Instrument :
MSVOA_W
ClientSampleId :
S602-M-1.0-1.5-082319

Quant Time: Aug 27 05:01:23 2019
Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_W\METHOD\82W082319S.M
Quant Title : SW846 8260
QLast Update : Mon Aug 26 07:18:31 2019
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	7.95	168	242151	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	8.84	114	409369	50.00	ug/l	0.00
63) Chlorobenzene-d5	11.63	117	359019	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.56	152	137183	50.00	ug/l	0.00

System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	8.30	65	160112	55.62	ug/l	0.00
Spiked Amount	50.000		Recovery	=	111.24%	
35) Dibromofluoromethane	7.88	113	126444	51.75	ug/l	0.00
Spiked Amount	50.000		Recovery	=	103.50%	
50) Toluene-d8	10.32	98	516251	52.11	ug/l	0.00
Spiked Amount	50.000		Recovery	=	104.22%	
62) 4-Bromofluorobenzene	12.62	95	166602	47.70	ug/l	0.00
Spiked Amount	50.000		Recovery	=	95.40%	

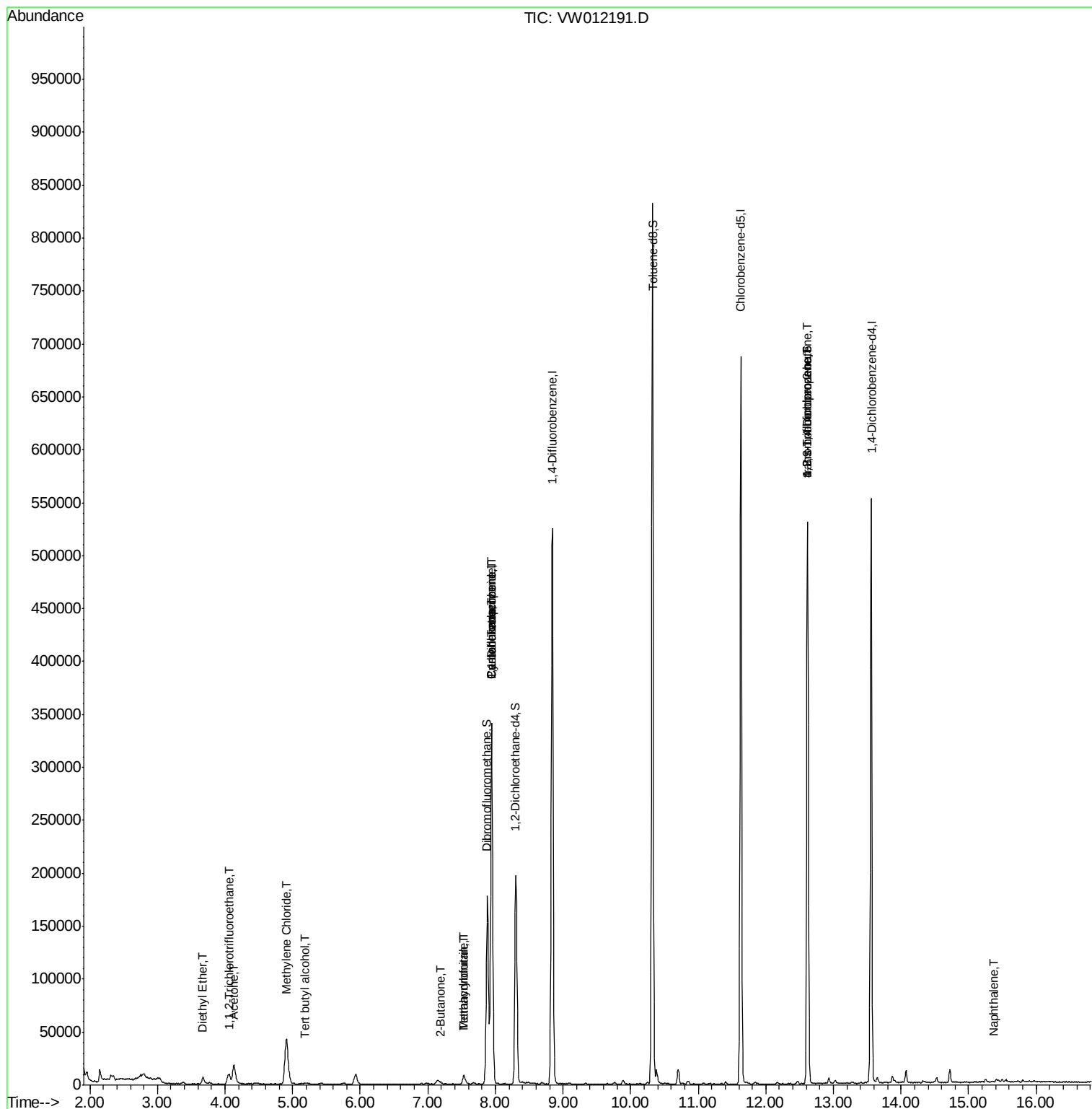
Target Compounds				Qvalue		
8) Diethyl Ether	3.67	74	2925	2.171	ug/l	77
9) 1,1,2-Trichlorotrifluoroet	4.06	101	6581	2.727	ug/l	98
11) Tert butyl alcohol	5.18	59	596	3.440	ug/l #	71
16) Acetone	4.13	43	38813	52.748	ug/l	96
20) Methylene Chloride	4.91	84	31580	11.353	ug/l	97
25) 2-Butanone	7.19	43	2309	2.309	ug/l	95
29) Tetrahydrofuran	7.54	42	7336	12.229	ug/l	95
31) Cyclohexane	7.94	56	6163	1.189	ug/l #	1
36) 1,1-Dichloropropene	7.95	75	20367	4.814	ug/l #	52
38) Carbon Tetrachloride	7.95	117	24920	6.806	ug/l #	16
41) Methacrylonitrile	7.54	41	4842	3.554	ug/l #	54
76) 1,2,3-Trichloropropane	12.62	75	89902	67.289	ug/l #	100
81) trans-1,4-Dichloro-2-buten	12.62	75	89902	147.533	ug/l #	6
95) Naphthalene	15.37	128	254	4.366	ug/l #	69

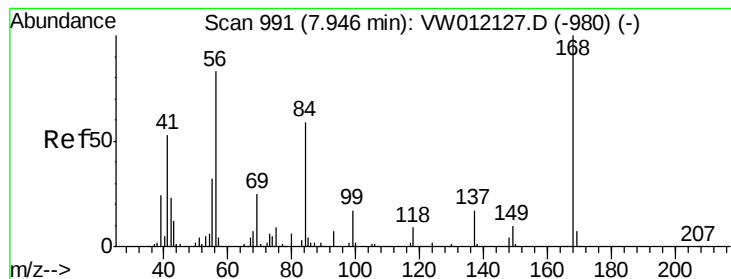
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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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: VW012191.D

Acq: 27 Aug 2019 00:16

Instrument :

MSVOA_W

ClientSampleId :

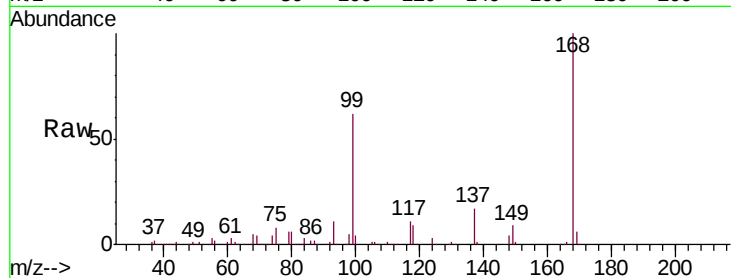
S602-M-1.0-1.5-082319

Tgt Ion:168 Resp: 242151

Ion Ratio Lower Upper

168 100

99 62.1 49.2 73.8



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VW

7.95

120000

100000

80000

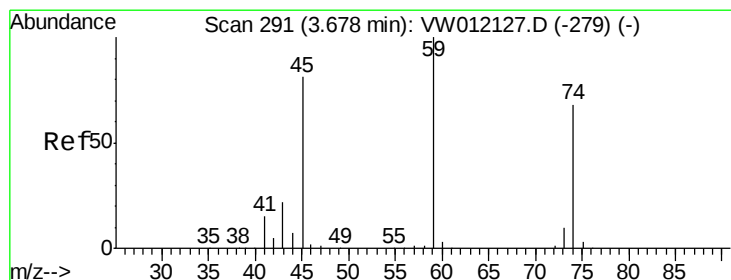
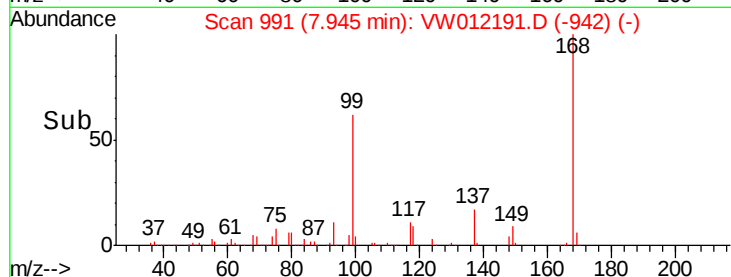
60000

40000

20000

0

Time--> 7.80 7.90 8.00 8.10



#8

Diethyl Ether

Concen: 2.171 ug/l

RT: 3.67 min Scan# 290

Delta R.T. -0.01 min

Lab File: VW012191.D

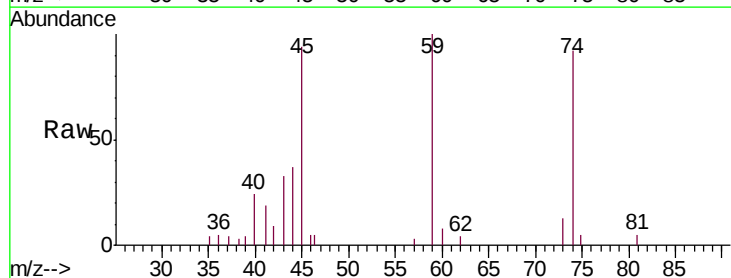
Acq: 27 Aug 2019 00:16

Tgt Ion: 74 Resp: 2925

Ion Ratio Lower Upper

74 100

45 143.3 59.2 177.6



Abundance Ion 74.00 (73.70 to 74.70): VW

Ion 45.00 (44.70 to 45.70): VW

3.67

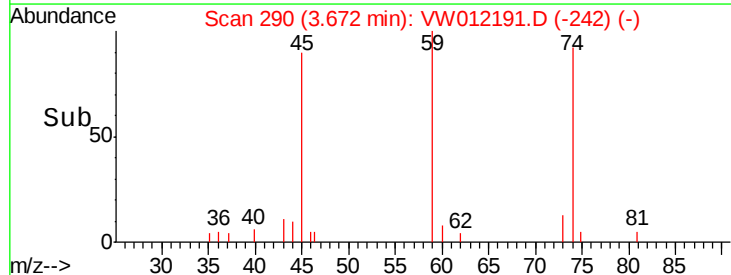
1500

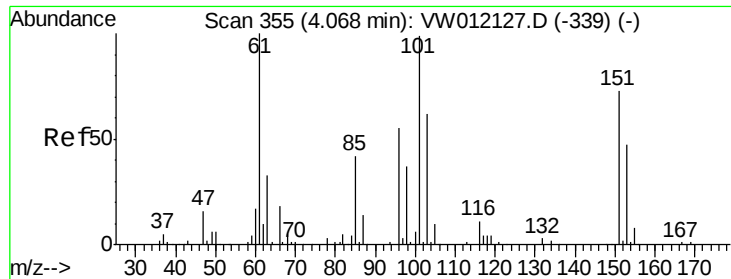
1000

500

0

Time--> 3.60 3.65 3.70 3.75





#9

1,1,2-Trichlorotrifluoroethane

Concen: 2.727 ug/l

RT: 4.06 min Scan# 354

Delta R.T. -0.01 min

Lab File: VW012191.D

Acq: 27 Aug 2019 00:16

Instrument :

MSVOA_W

ClientSampleId :

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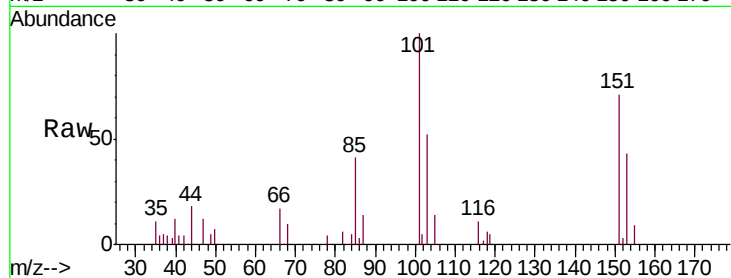
Tgt Ion:101 Resp: 6581

Ion Ratio Lower Upper

101 100

85 45.5 35.8 53.6

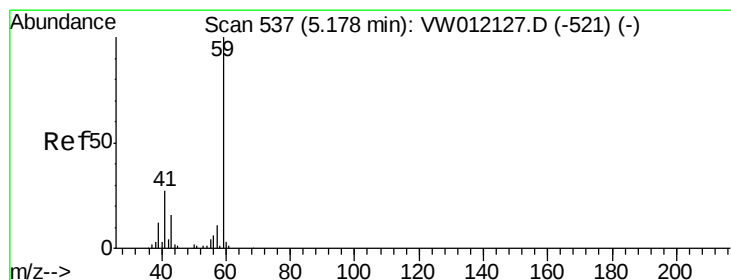
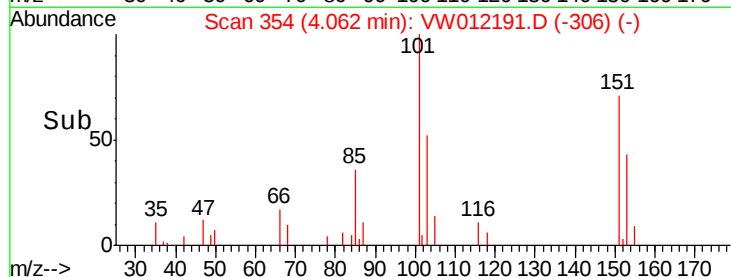
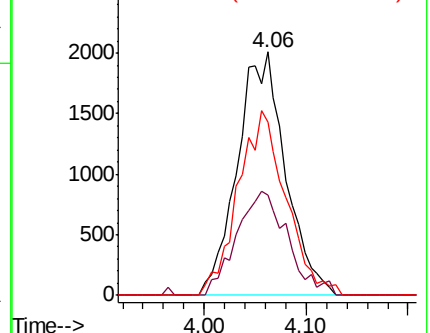
151 75.6 58.6 87.8



Abundance Ion 100.90 (100.60 to 101.60): V

Ion 84.90 (84.60 to 85.60): VW

Ion 150.80 (150.50 to 151.50): V



#11

Tert butyl alcohol

Concen: 3.440 ug/l

RT: 5.18 min Scan# 538

Delta R.T. 0.01 min

Lab File: VW012191.D

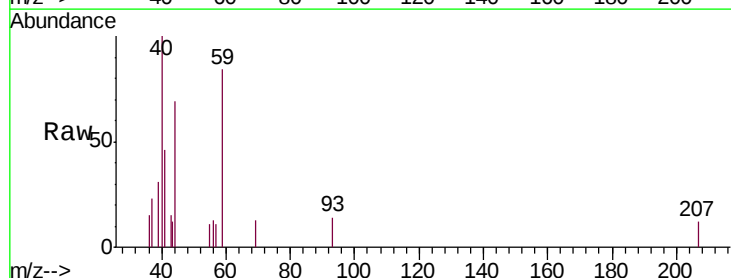
Acq: 27 Aug 2019 00:16

Tgt Ion: 59 Resp: 596

Ion Ratio Lower Upper

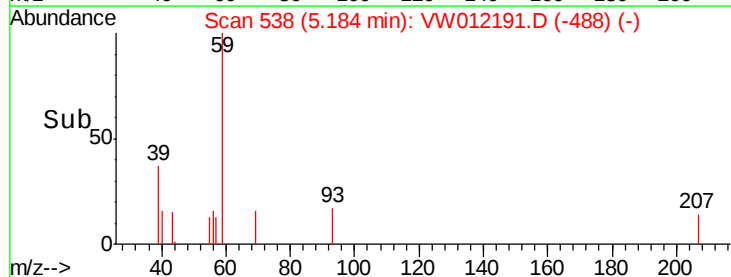
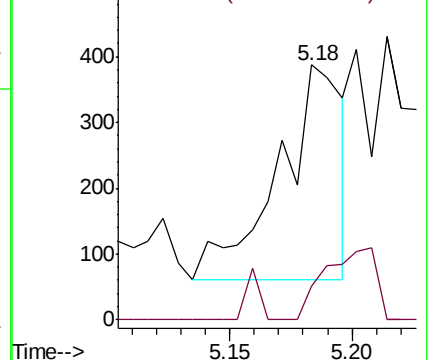
59 100

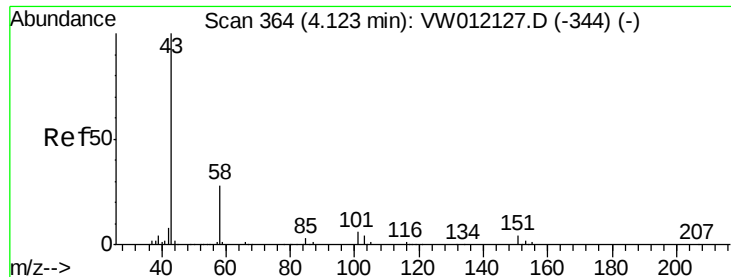
57 0.0 9.0 13.4#



Abundance Ion 59.00 (58.70 to 59.70): VW

Ion 57.00 (56.70 to 57.70): VW

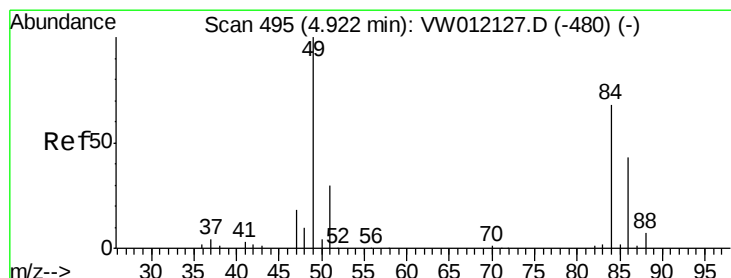
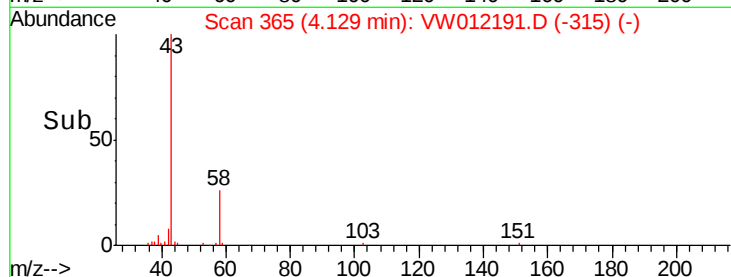
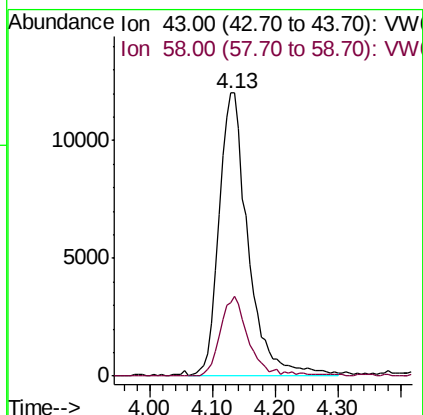
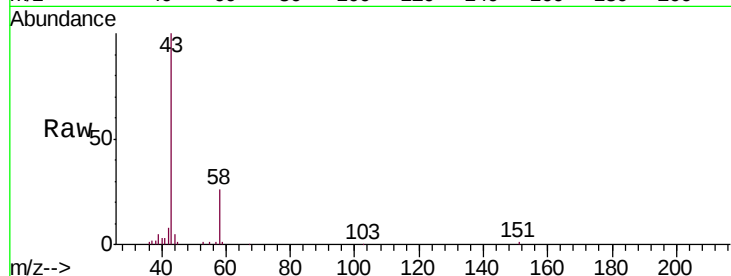




#16
Acetone
Concen: 52.748 ug/l
RT: 4.13 min Scan# 365
Delta R.T. 0.01 min
Lab File: VW012191.D
Acq: 27 Aug 2019 00:16

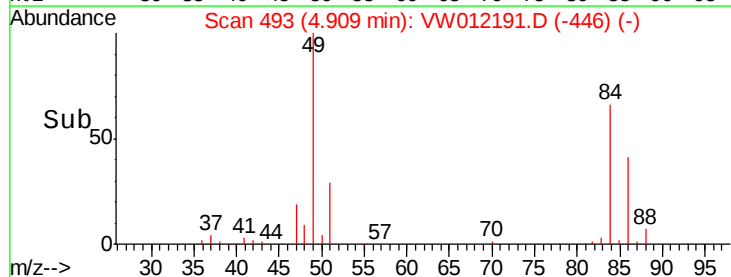
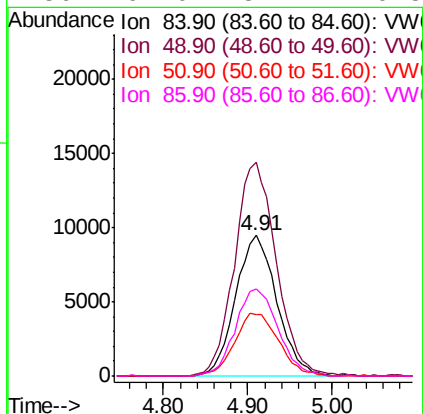
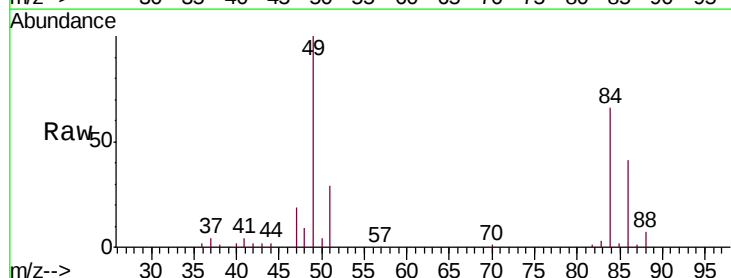
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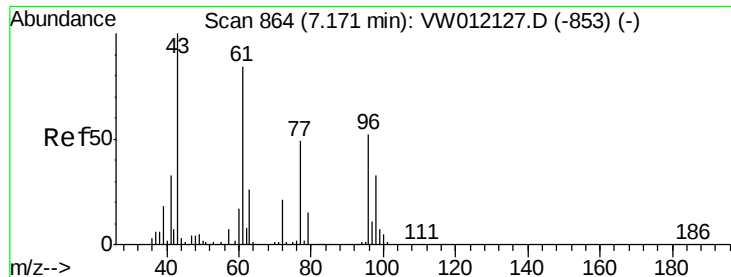
Tgt Ion: 43 Resp: 38813
Ion Ratio Lower Upper
43 100
58 26.1 22.4 33.6



#20
Methylene Chloride
Concen: 11.353 ug/l
RT: 4.91 min Scan# 493
Delta R.T. -0.01 min
Lab File: VW012191.D
Acq: 27 Aug 2019 00:16

Tgt Ion: 84 Resp: 31580
Ion Ratio Lower Upper
84 100
49 152.1 117.8 176.8
51 43.7 35.6 53.4
86 62.0 51.2 76.8





#25

2-Butanone

Concen: 2.309 ug/l

RT: 7.19 min Scan# 867

Delta R.T. 0.02 min

Lab File: VW012191.D

Acq: 27 Aug 2019 00:16

Instrument :

MSVOA_W

ClientSampleId :

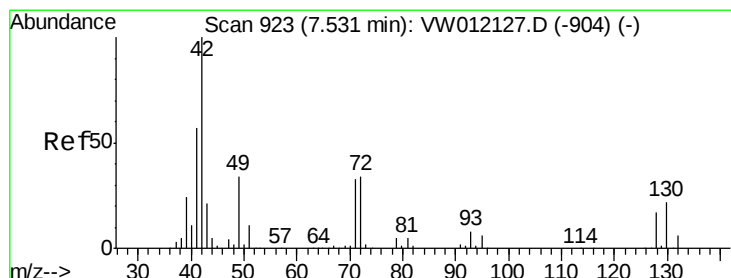
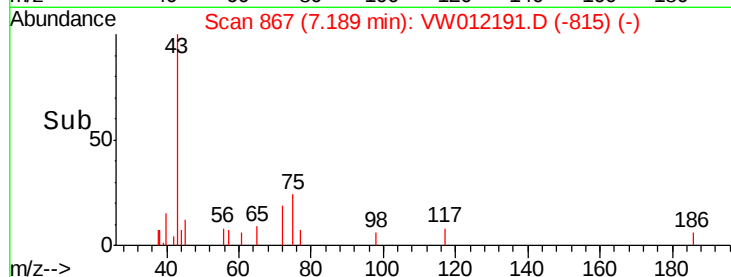
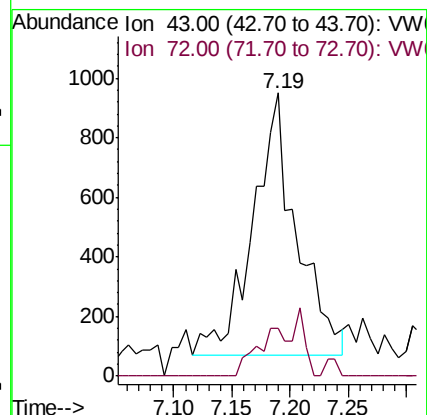
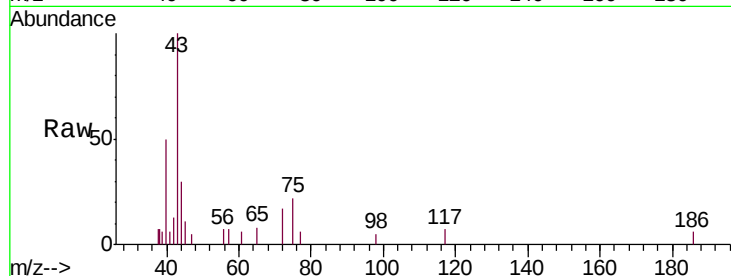
S602-M-1.0-1.5-082319

Tgt Ion: 43 Resp: 2309

Ion Ratio Lower Upper

43 100

72 18.4 16.6 24.8



#29

Tetrahydrofuran

Concen: 12.229 ug/l

RT: 7.54 min Scan# 924

Delta R.T. 0.01 min

Lab File: VW012191.D

Acq: 27 Aug 2019 00:16

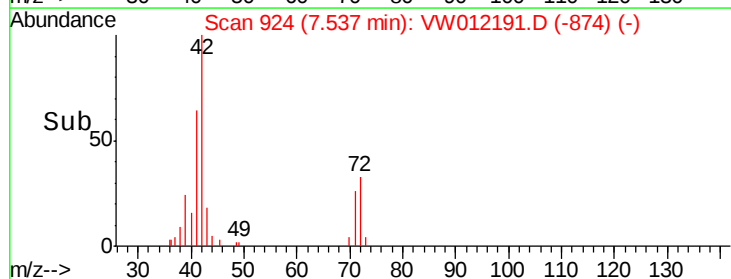
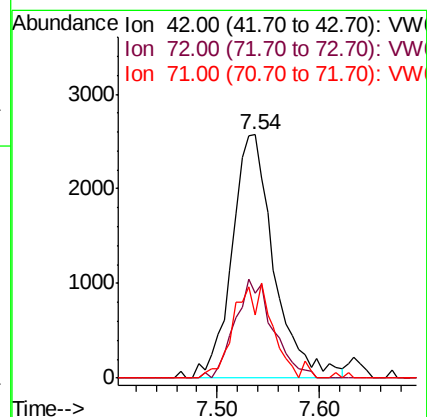
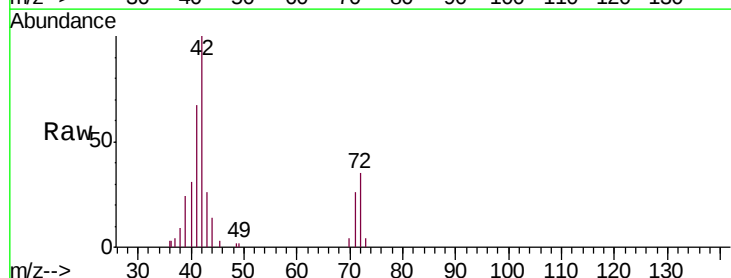
Tgt Ion: 42 Resp: 7336

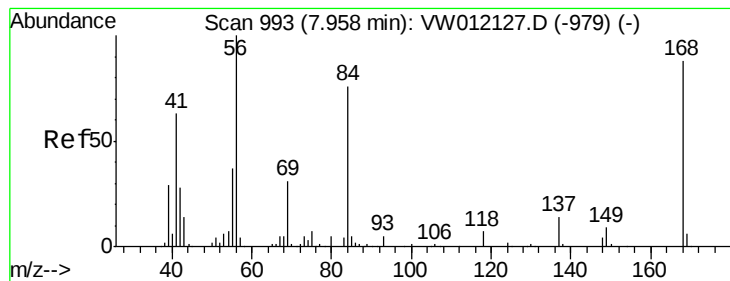
Ion Ratio Lower Upper

42 100

72 37.0 27.3 40.9

71 35.0 25.5 38.3





#31

Cyclohexane

Concen: 1.189 ug/l

RT: 7.94 min Scan# 990

Delta R.T. -0.02 min

Lab File: VW012191.D

Acq: 27 Aug 2019 00:16

Instrument :

MSVOA_W

ClientSampleId :

S602-M-1.0-1.5-082319

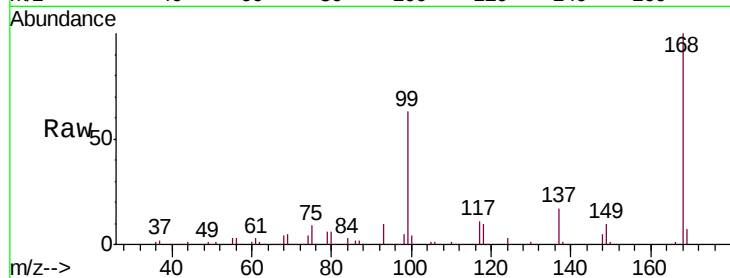
Tgt Ion: 56 Resp: 6163

Ion Ratio Lower Upper

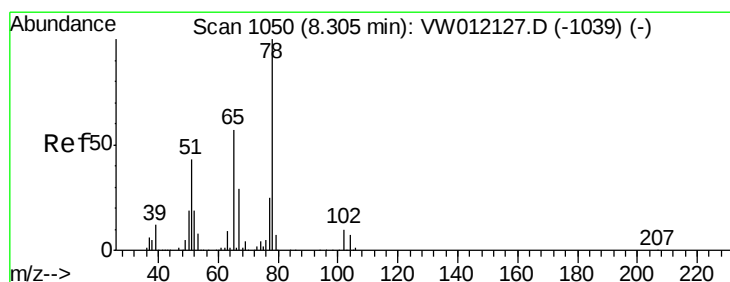
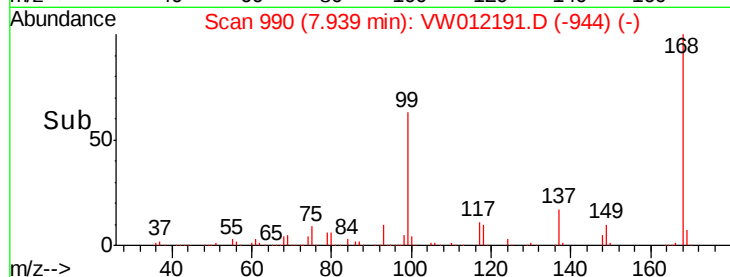
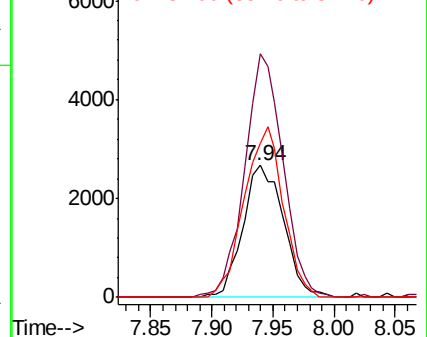
56 100

69 184.5 24.9 37.3#

84 116.3 60.6 90.8#



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: 55.622 ug/l

RT: 8.30 min Scan# 1049

Delta R.T. -0.01 min

Lab File: VW012191.D

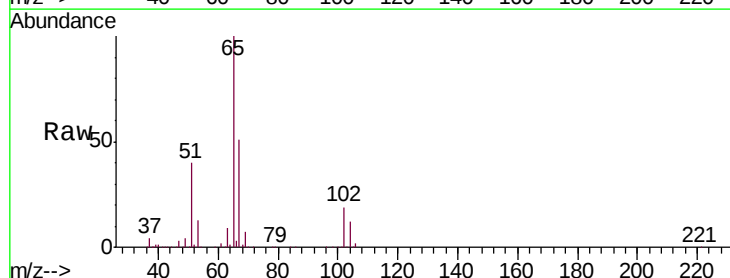
Acq: 27 Aug 2019 00:16

Tgt Ion: 65 Resp: 160112

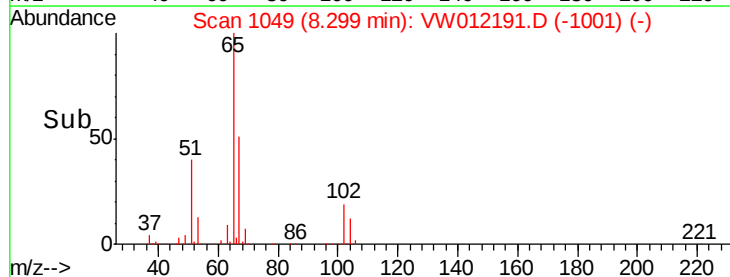
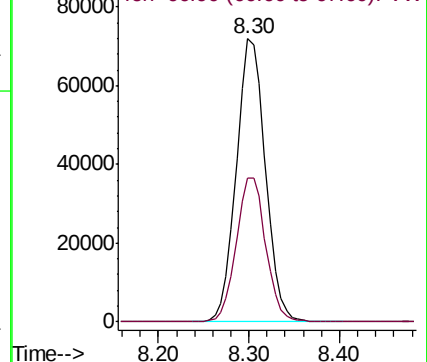
Ion Ratio Lower Upper

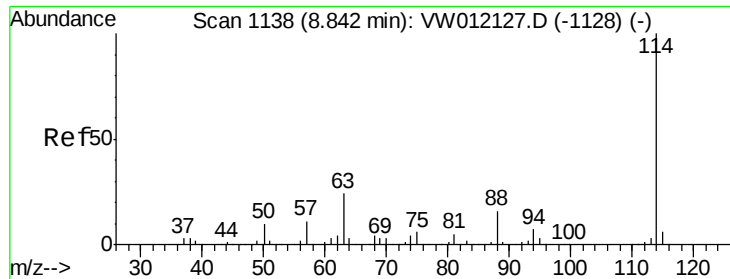
65 100

67 51.8 0.0 102.6



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

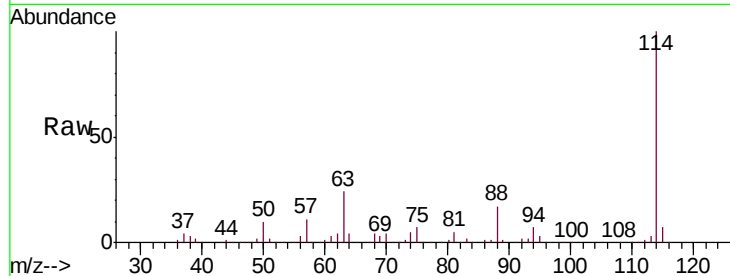




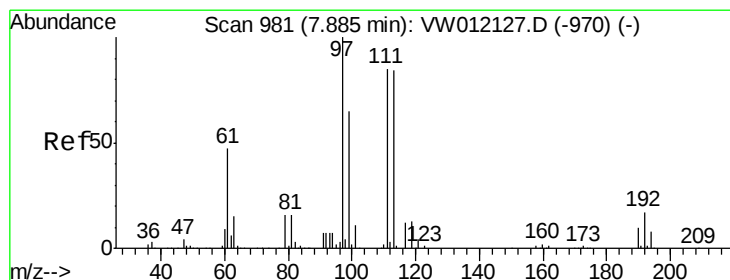
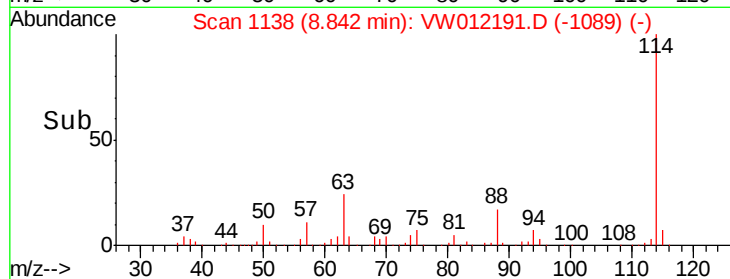
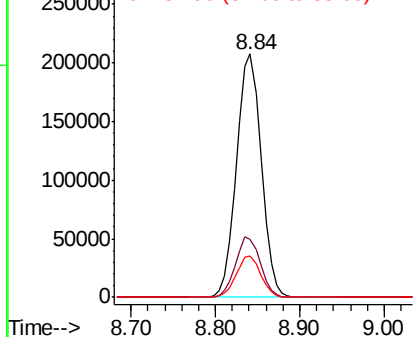
#34
 1,4-Difluorobenzene
 Concen: 50.000 ug/l
 RT: 8.84 min Scan# 1138
 Delta R.T. -0.00 min
 Lab File: VW012191.D
 Acq: 27 Aug 2019 00:16

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Tgt Ion:114 Resp: 409369
 Ion Ratio Lower Upper
 114 100
 63 23.8 0.0 48.6
 88 17.0 0.0 32.2

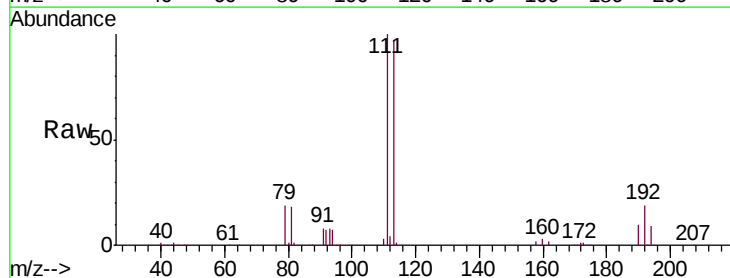


Abundance Ion 113.90 (113.60 to 114.60): V
 Ion 63.00 (62.70 to 63.70): VW
 Ion 87.90 (87.60 to 88.60): VW

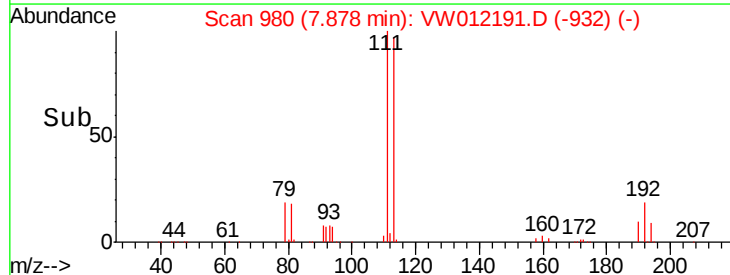
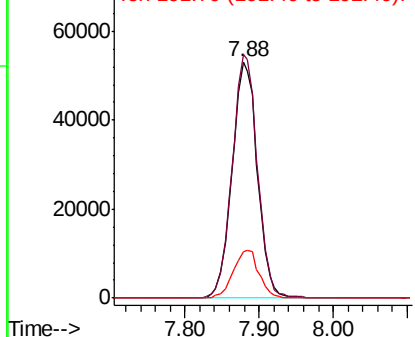


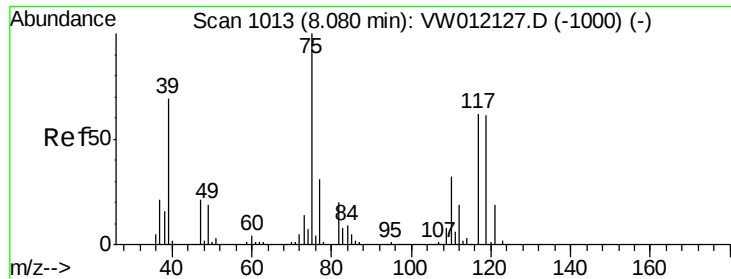
#35
 Dibromofluoromethane
 Concen: 51.746 ug/l
 RT: 7.88 min Scan# 980
 Delta R.T. -0.01 min
 Lab File: VW012191.D
 Acq: 27 Aug 2019 00:16

Tgt Ion:113 Resp: 126444
 Ion Ratio Lower Upper
 113 100
 111 103.0 82.7 124.1
 192 20.4 16.2 24.2



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

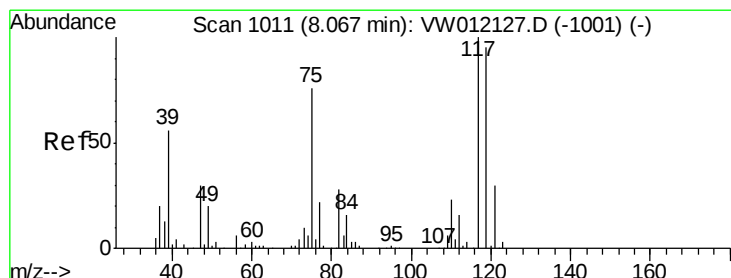
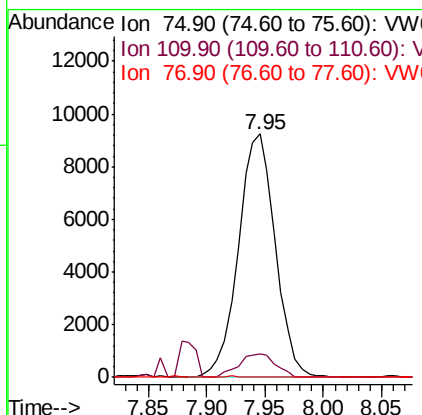
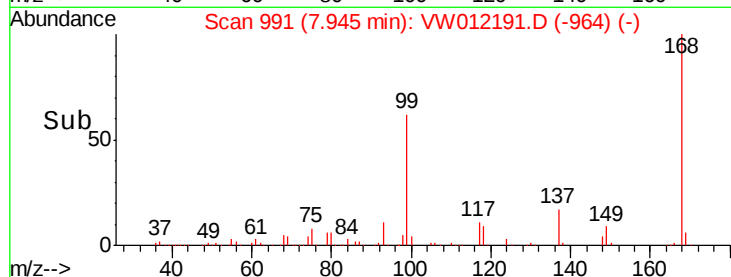
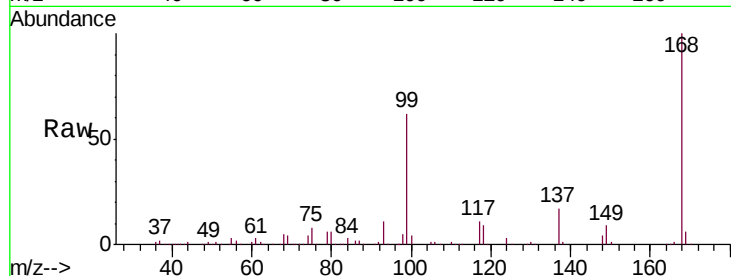




#36
 1,1-Dichloropropene
 Concen: 4.814 ug/l
 RT: 7.95 min Scan# 991
 Delta R.T. -0.13 min
 Lab File: VW012191.D
 Acq: 27 Aug 2019 00:16

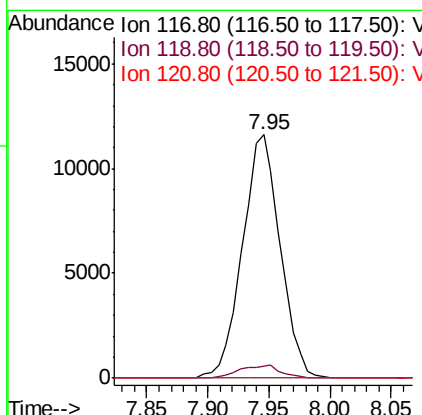
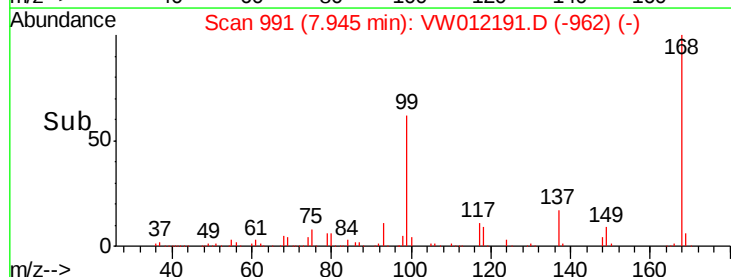
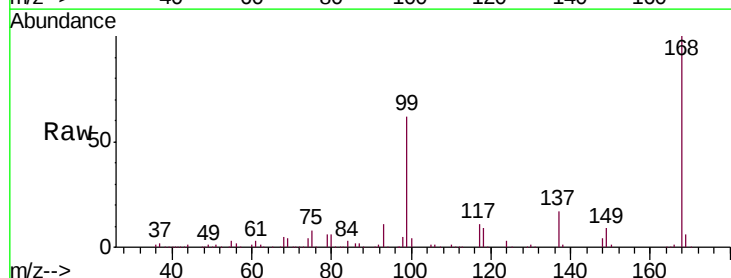
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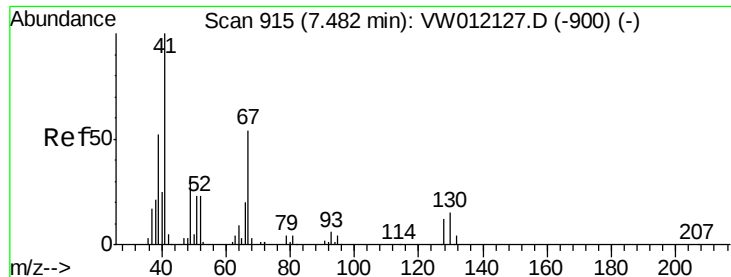
Tgt Ion: 75 Resp: 20367
 Ion Ratio Lower Upper
 75 100
 110 9.6 15.6 46.8#
 77 0.0 24.6 36.8#



#38
 Carbon Tetrachloride
 Concen: 6.806 ug/l
 RT: 7.95 min Scan# 991
 Delta R.T. -0.12 min
 Lab File: VW012191.D
 Acq: 27 Aug 2019 00:16

Tgt Ion: 117 Resp: 24920
 Ion Ratio Lower Upper
 117 100
 119 4.7 76.2 114.2#
 121 0.0 23.8 35.8#

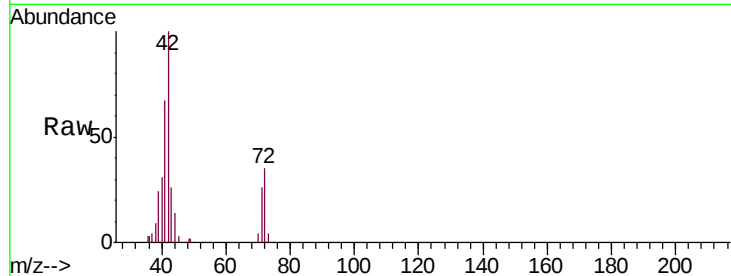




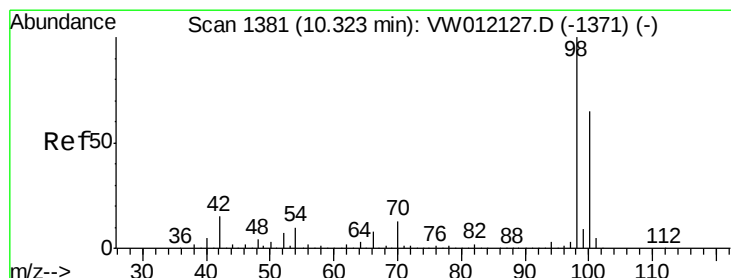
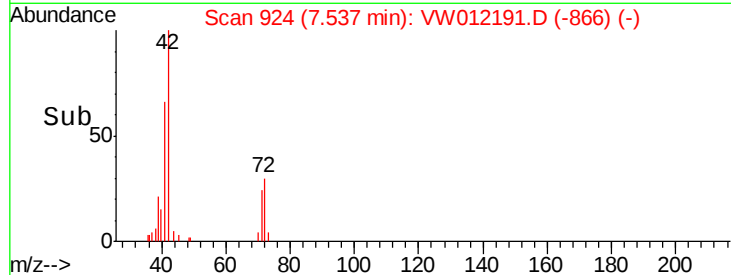
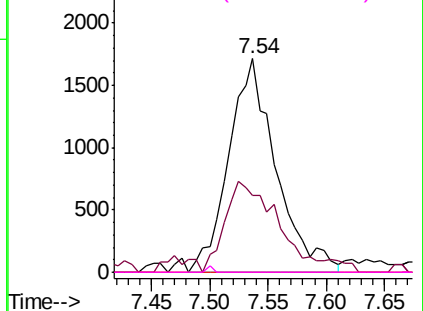
#41
Methacrylonitrile
Concen: 3.554 ug/l
RT: 7.54 min Scan# 924
Delta R.T. 0.05 min
Lab File: VW012191.D
Acq: 27 Aug 2019 00:16

Instrument :
MSVOA_W
ClientSampleId :
S602-M-1.0-1.5-082319

Tgt Ion:	41	Resp:	4842
Ion	Ratio	Lower	Upper
41	100		
39	49.6	45.8	68.8
67	0.0	46.2	69.4#
52	0.0	21.0	31.6#

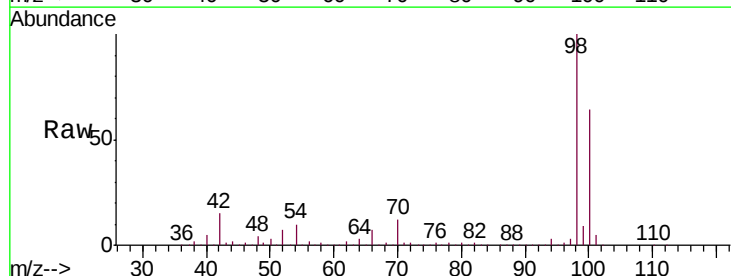


Abundance Ion 41.00 (40.70 to 41.70): VW
Ion 39.00 (38.70 to 39.70): VW
Ion 67.00 (66.70 to 67.70): VW
Ion 52.00 (51.70 to 52.70): VW

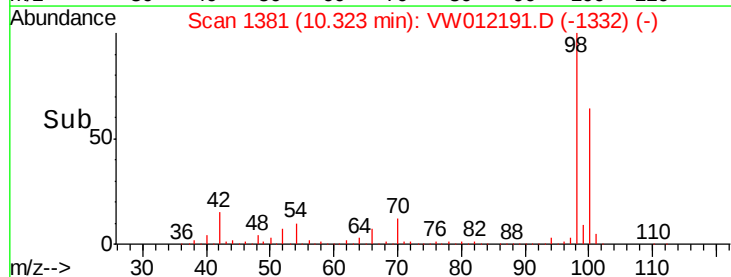
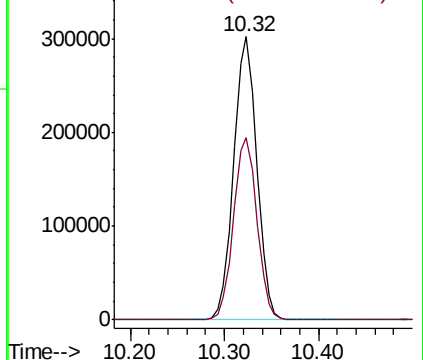


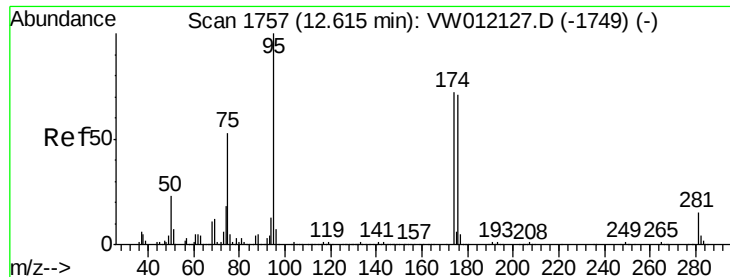
#50
Toluene-d8
Concen: 52.105 ug/l
RT: 10.32 min Scan# 1381
Delta R.T. -0.00 min
Lab File: VW012191.D
Acq: 27 Aug 2019 00:16

Tgt Ion:	98	Resp:	516251
Ion	Ratio	Lower	Upper
98	100		
100	65.2	52.4	78.6



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





#62

4-Bromofluorobenzene

Concen: 47.703 ug/l

RT: 12.62 min Scan# 1757

Delta R.T. -0.00 min

Lab File: VW012191.D

Acq: 27 Aug 2019 00:16

Instrument :

MSVOA_W

ClientSampleId :

S602-M-1.0-1.5-082319

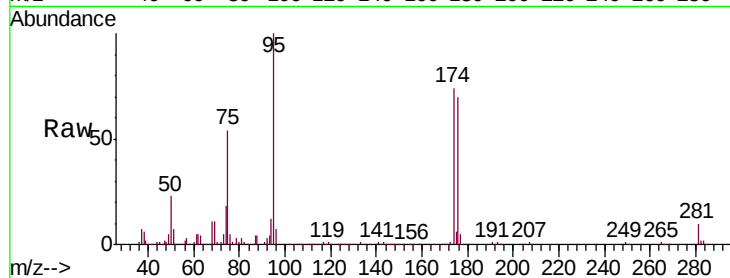
Tgt Ion: 95 Resp: 166602

Ion Ratio Lower Upper

95 100

174 76.3 0.0 150.8

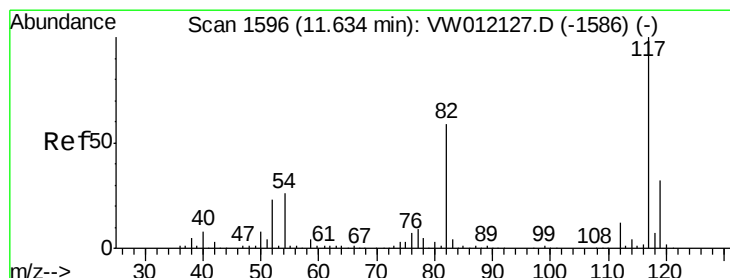
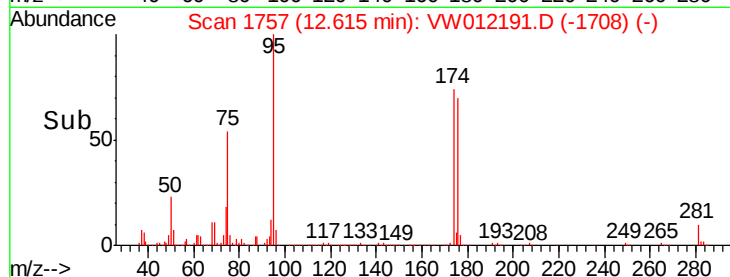
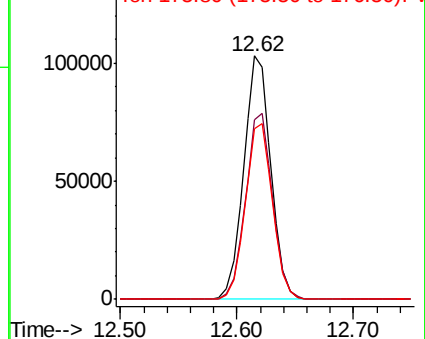
176 72.8 0.0 148.6



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# 1595

Delta R.T. -0.01 min

Lab File: VW012191.D

Acq: 27 Aug 2019 00:16

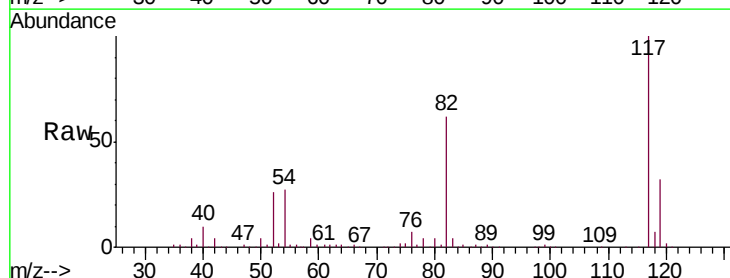
Tgt Ion: 117 Resp: 359019

Ion Ratio Lower Upper

117 100

82 62.0 47.4 71.2

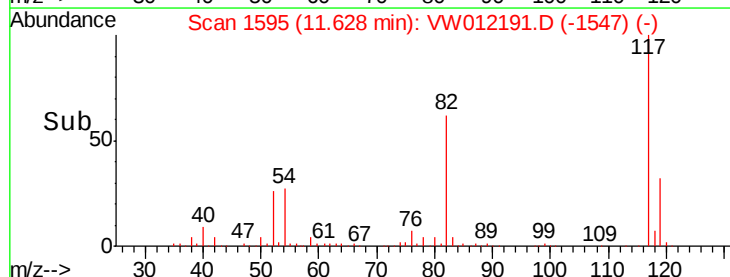
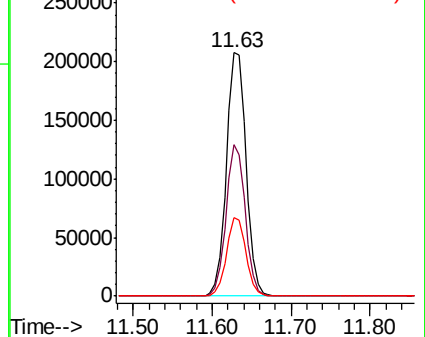
119 32.0 25.4 38.2

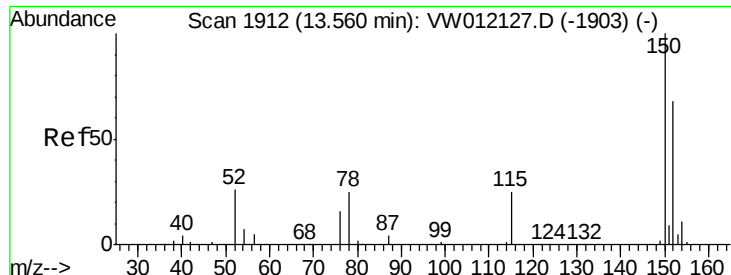


Abundance Ion 116.90 (116.60 to 117.60): VW

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: VW012191.D

Acq: 27 Aug 2019 00:16

Instrument :

MSVOA_W

ClientSampleId :

S602-M-1.0-1.5-082319

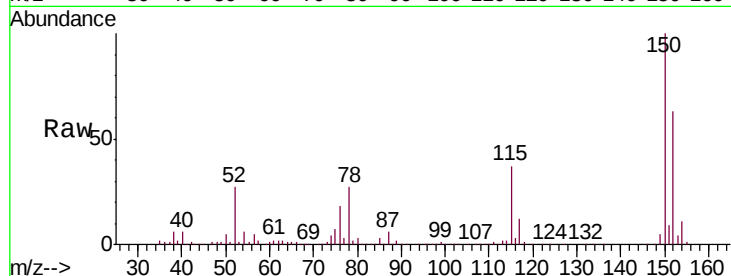
Tgt Ion:152 Resp: 137183

Ion Ratio Lower Upper

152 100

115 60.9 30.1 90.3

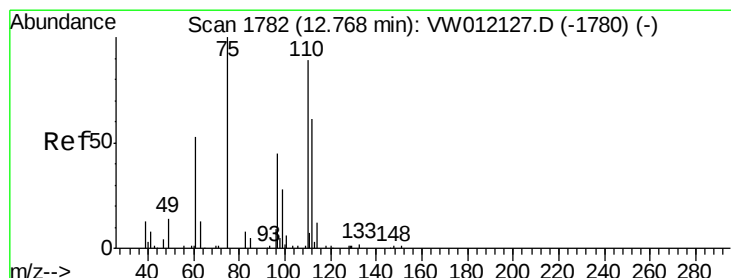
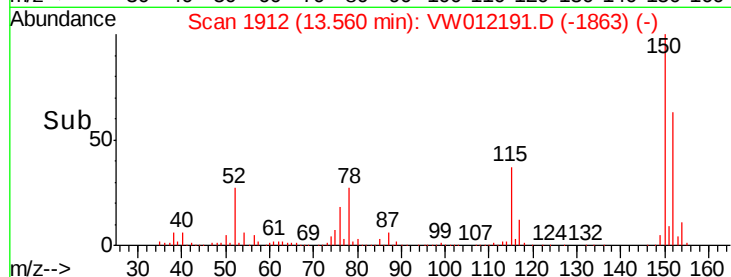
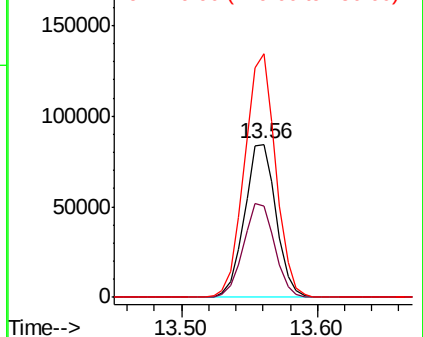
150 156.9 0.0 345.8



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: 67.289 ug/l

RT: 12.62 min Scan# 1757

Delta R.T. -0.15 min

Lab File: VW012191.D

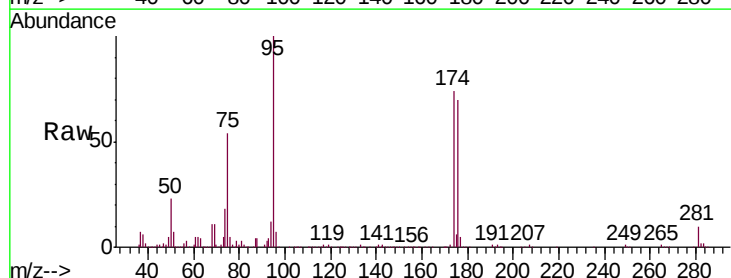
Acq: 27 Aug 2019 00:16

Tgt Ion: 75 Resp: 89902

Ion Ratio Lower Upper

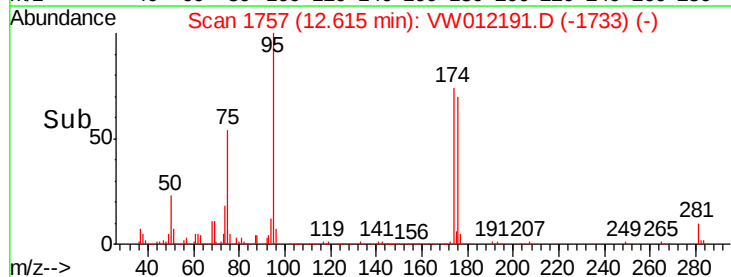
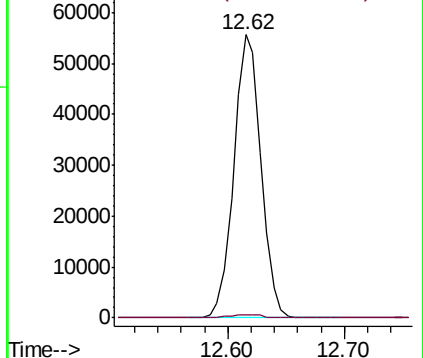
75 100

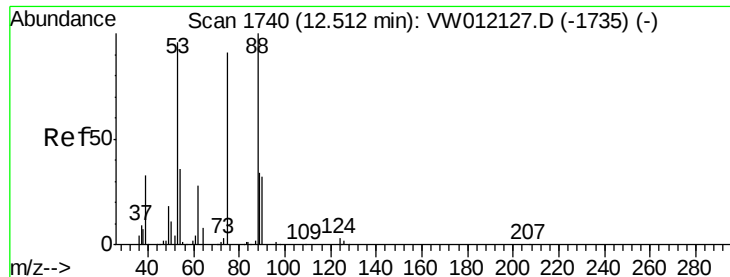
77 1.4 0.0 0.0#



Abundance Ion 74.90 (74.60 to 75.60): VW

Ion 77.00 (76.70 to 77.70): VW

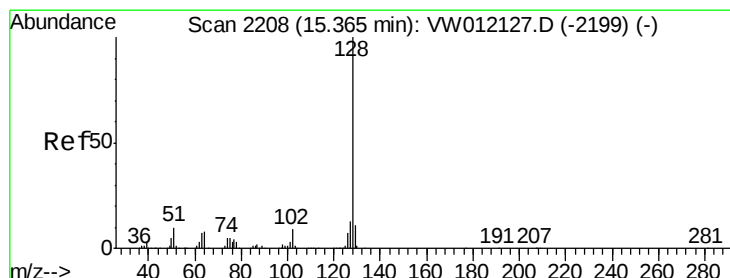
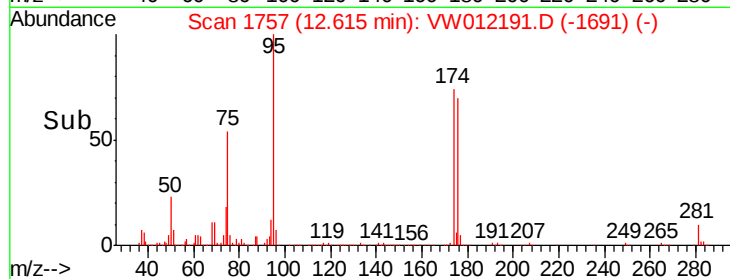
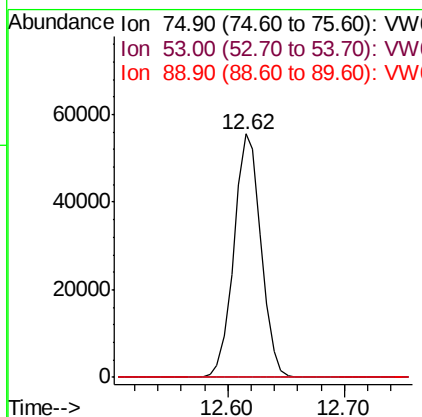
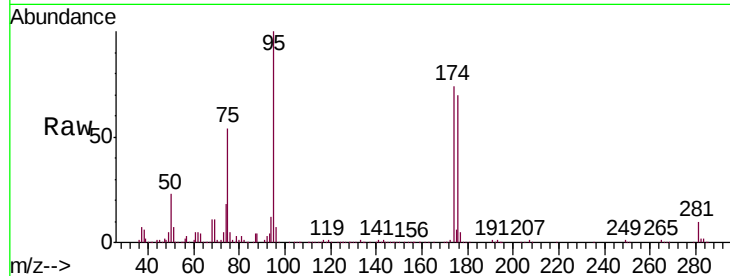




#81
trans-1,4-Dichloro-2-butene
Concen: 147.533 ug/l
RT: 12.62 min Scan# 1757
Delta R.T. 0.10 min
Lab File: VW012191.D
Acq: 27 Aug 2019 00:16

Instrument :
MSVOA_W
ClientSampleId :
S602-M-1.0-1.5-082319

Tgt Ion: 75 Resp: 89902
Ion Ratio Lower Upper
75 100
53 0.2 89.4 134.0#
89 0.1 34.5 51.7#



#95
Naphthalene
Concen: 4.366 ug/l
RT: 15.37 min Scan# 2209
Delta R.T. 0.01 min
Lab File: VW012191.D
Acq: 27 Aug 2019 00:16

Tgt Ion: 128 Resp: 254
Ion Ratio Lower Upper
128 100
127 0.0 10.7 16.1#
129 0.0 8.7 13.1#

