

Data Path : Z:\VOASRV\HPCHEM1\MSVOA W\DATA\VW083019\
 Data File : VW012347.D
 Acq On : 30 Aug 2019 13:34
 Operator : SY/VA
 Sample : K4620-02
 Misc : 6.71G/5ML/MSVOA W/SOIL
 ALS Vial : 10 Sample Multiplier: 1

Instrument :
 MSVOA_W
 ClientSampleId :

Quant Time: Aug 30 15:51:44 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

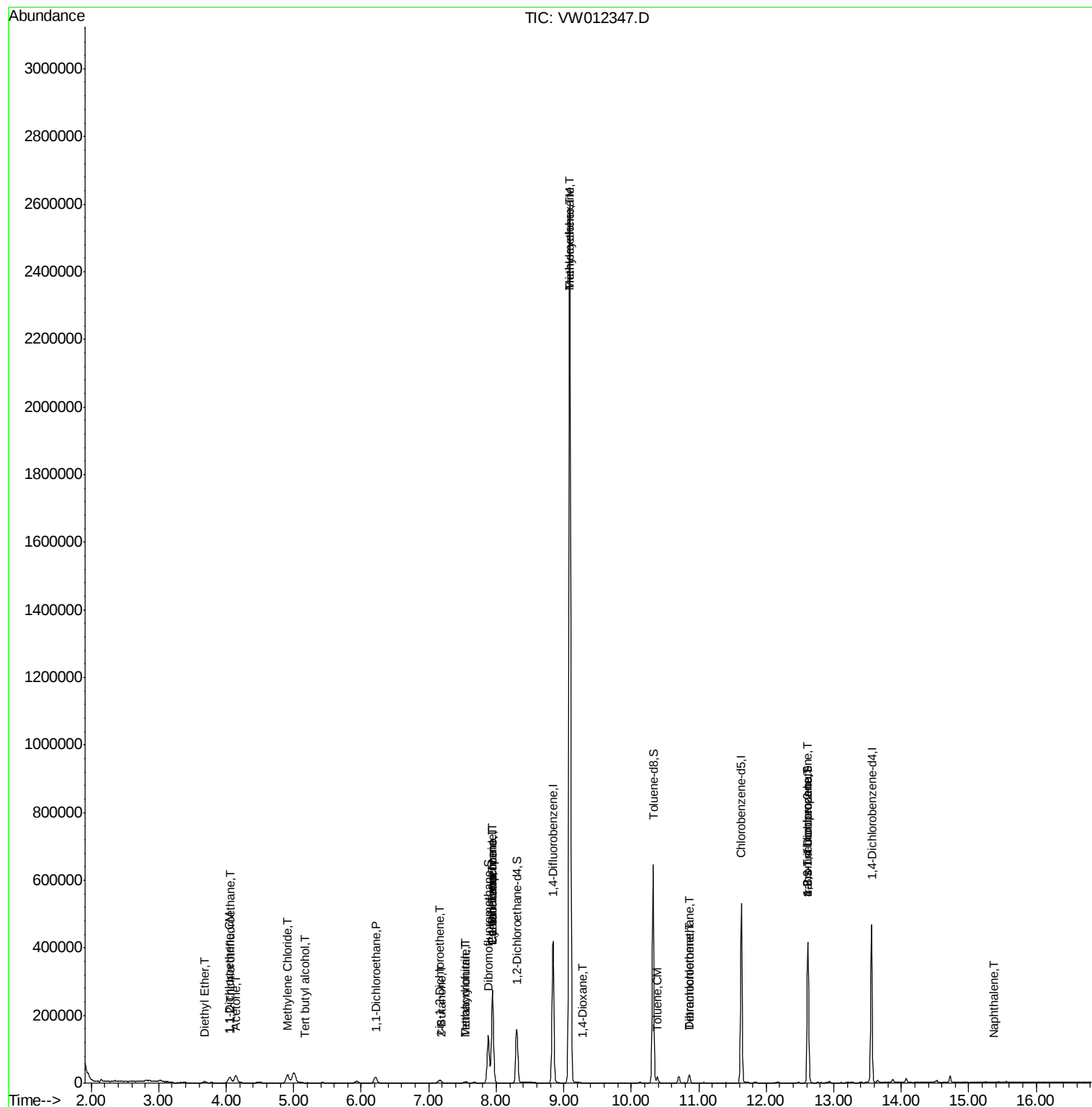
Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	7.95	168	200416	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	8.84	114	329063	50.00	ug/l	0.00
63) Chlorobenzene-d5	11.63	117	275845	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.56	152	118356	50.00	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	8.31	65	130185	54.64	ug/l	0.00
Spiked Amount	50.000		Recovery	=	109.28%	
35) Dibromofluoromethane	7.88	113	100485	51.16	ug/l	0.00
Spiked Amount	50.000		Recovery	=	102.32%	
50) Toluene-d8	10.32	98	401606	50.43	ug/l	0.00
Spiked Amount	50.000		Recovery	=	100.86%	
62) 4-Bromofluorobenzene	12.62	95	131391	46.80	ug/l	0.00
Spiked Amount	50.000		Recovery	=	93.60%	
Target Compounds						
					Qvalue	
8) Diethyl Ether	3.68	74	1727	1.548	ug/l	64
9) 1,1,2-Trichlorotrifluoroet	4.06	101	9133	4.573	ug/l	93
11) Tert butyl alcohol	5.17	59	243	1.695	ug/l #	71
12) 1,1-Dichloroethene	4.04	96	3465	1.724	ug/l	93
16) Acetone	4.14	43	42915	70.467	ug/l	98
20) Methylene Chloride	4.92	84	17059	7.410	ug/l	96
24) 1,1-Dichloroethane	6.21	63	24151	5.568	ug/l	97
25) 2-Butanone	7.19	43	1500	1.813	ug/l #	70
27) cis-1,2-Dichloroethene	7.16	96	3217	1.397	ug/l	93
29) Tetrahydrofuran	7.54	42	3084	6.211	ug/l	96
31) Cyclohexane	7.94	56	4916	1.146	ug/l #	1
36) 1,1-Dichloropropene	7.95	75	17166	5.048	ug/l #	52
38) Carbon Tetrachloride	7.95	117	20344	6.912	ug/l #	16
39) Methylcyclohexane	9.09	83	11491	3.008	ug/l #	1
41) Methacrylonitrile	7.54	41	2319	2.117	ug/l #	50
44) Trichloroethene	9.09	130	885680	392.378	ug/l	98
49) 1,4-Dioxane	9.28	88	20	1.175	ug/l #	14
52) Toluene	10.38	92	7567	1.357	ug/l	99
60) Dibromochloromethane	10.86	129	4691	2.677	ug/l #	11
64) Tetrachloroethene	10.86	164	6075	3.397	ug/l	90
76) 1,2,3-Trichloropropane	12.62	75	69993	60.721	ug/l #	100
81) trans-1,4-Dichloro-2-buten	12.62	75	69993	133.132	ug/l #	6
95) Naphthalene	15.37	128	499	4.423	ug/l #	81

(#) = 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: VW012347.D

Acq: 30 Aug 2019 13:34

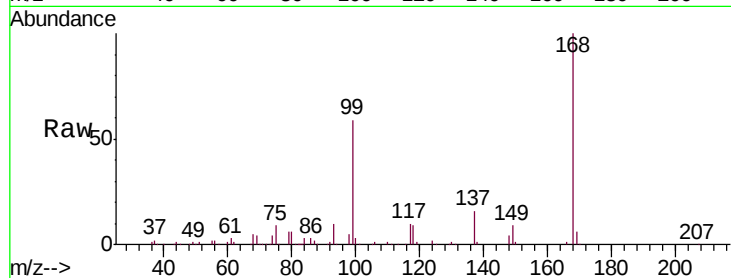
Instrument :
MSVOA_W
ClientSampleId :

Tot Ion:168 Resp: 200416

Ion Ratio Lower Upper

168 100

99 59.5 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

100000

80000

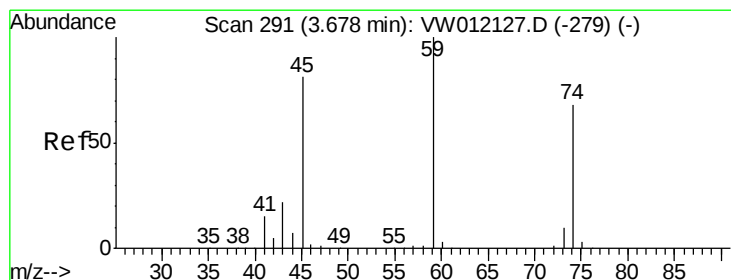
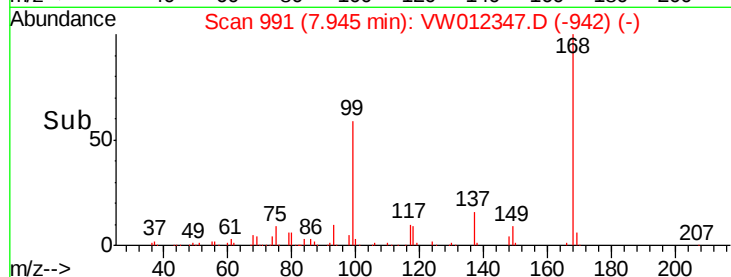
60000

40000

20000

0

Time--> 7.80 7.90 8.00



#8

Diethyl Ether

Concen: 1.548 ug/l

RT: 3.68 min Scan# 291

Delta R.T. -0.00 min

Lab File: VW012347.D

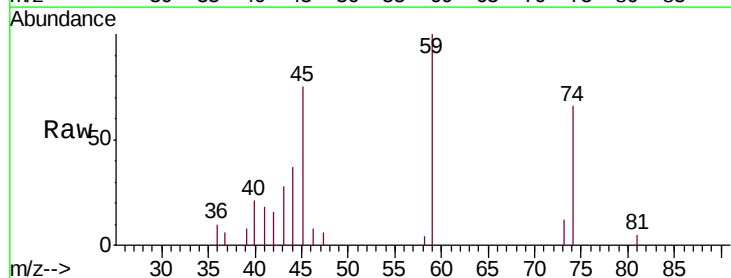
Acq: 30 Aug 2019 13:34

Tgt Ion: 74 Resp: 1727

Ion Ratio Lower Upper

74 100

45 158.6 59.2 177.6



Abundance Ion 74.00 (73.70 to 74.70): VW

Ion 45.00 (44.70 to 45.70): VW

1200

1000

800

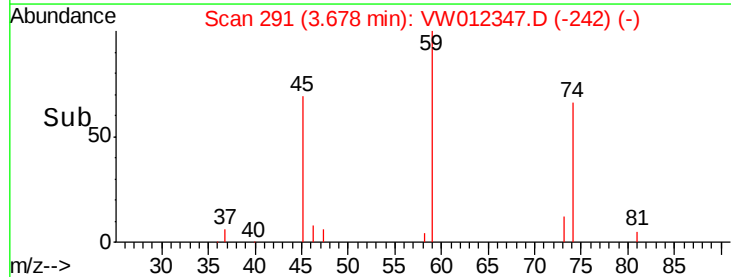
600

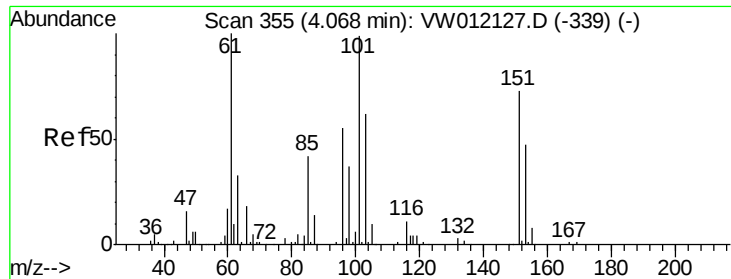
400

200

0

Time--> 3.60 3.65 3.70 3.75





#9

1,1,2-Trichlorotrifluoroethane

Concen: 4.573 ug/l

RT: 4.06 min Scan# 354

Delta R.T. -0.01 min

Lab File: VW012347.D

Acq: 30 Aug 2019 13:34

Instrument :

MSVOA_W

ClientSampled :

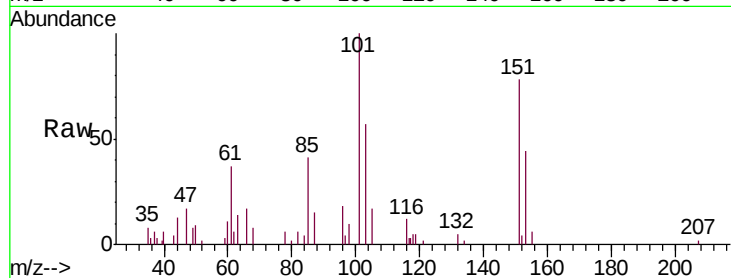
Tot Ion:101 Resp: 9133

Ion Ratio Lower Upper

101 100

85 46.5 35.8 53.6

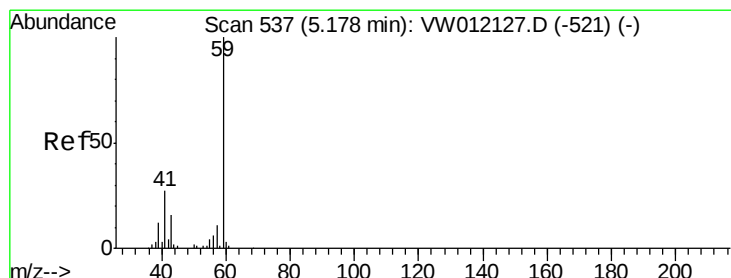
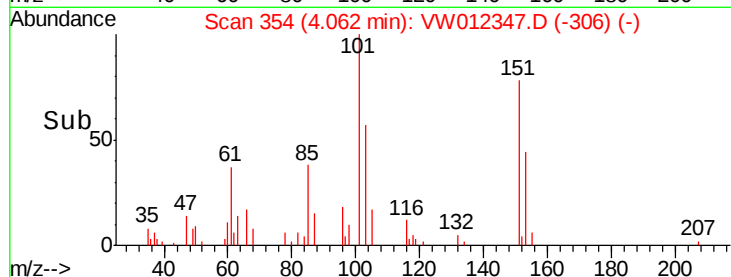
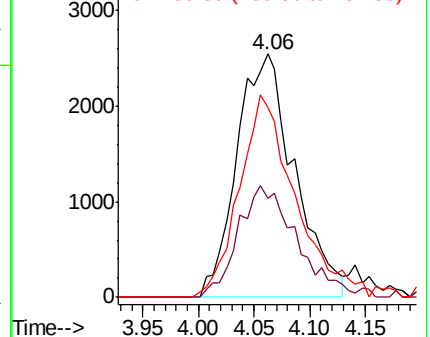
151 80.7 58.6 87.8



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: 1.695 ug/l

RT: 5.17 min Scan# 536

Delta R.T. -0.01 min

Lab File: VW012347.D

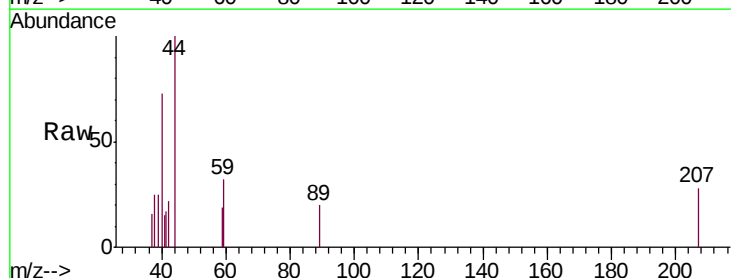
Acq: 30 Aug 2019 13:34

Tgt Ion: 59 Resp: 243

Ion Ratio Lower Upper

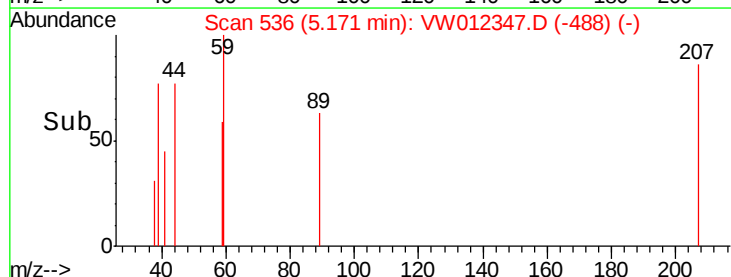
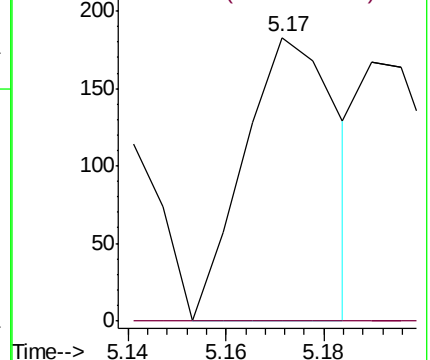
59 100

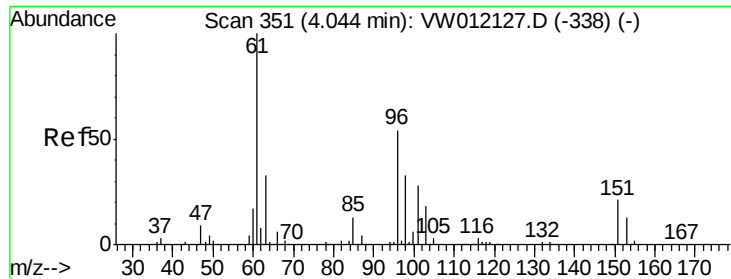
57 0.0 9.0 13.4#



Abundance Ion 59.00 (58.70 to 59.70): VW

Ion 57.00 (56.70 to 57.70): VW

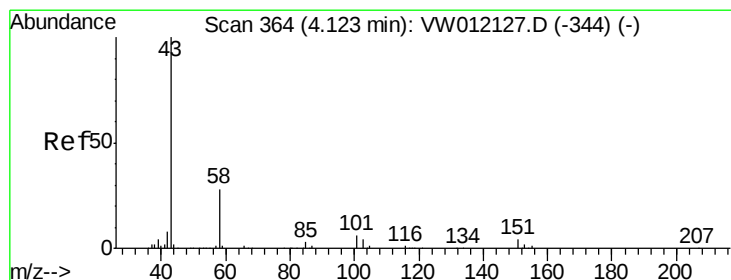
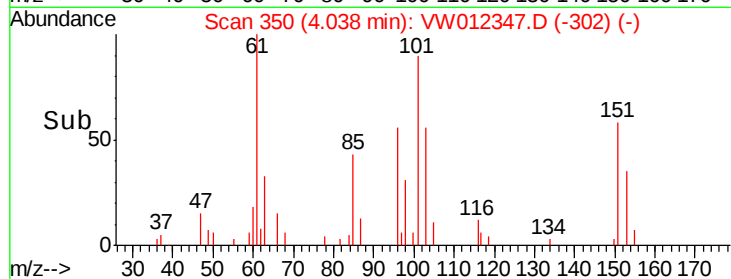
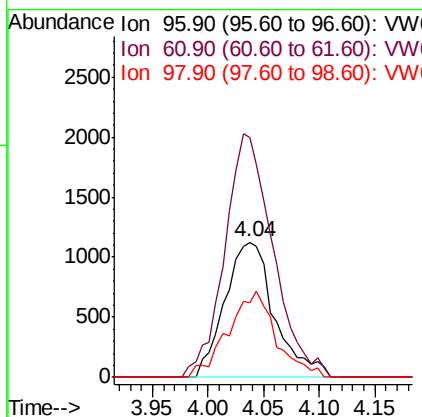
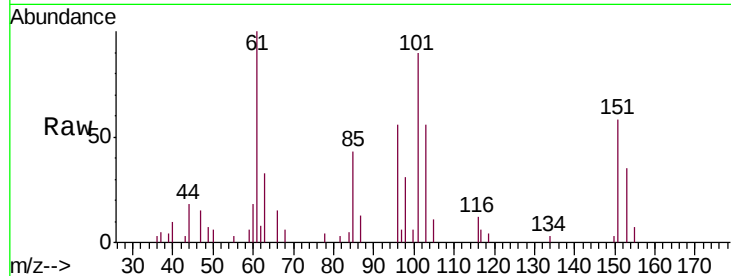




#12
 1,1-Dichloroethene
 Concen: 1.724 ug/l
 RT: 4.04 min Scan# 350
 Delta R.T. -0.01 min
 Lab File: VW012347.D
 Acq: 30 Aug 2019 13:34

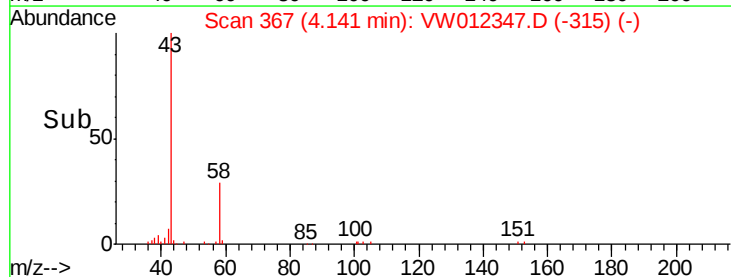
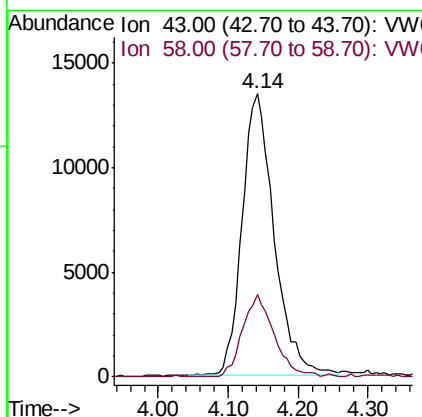
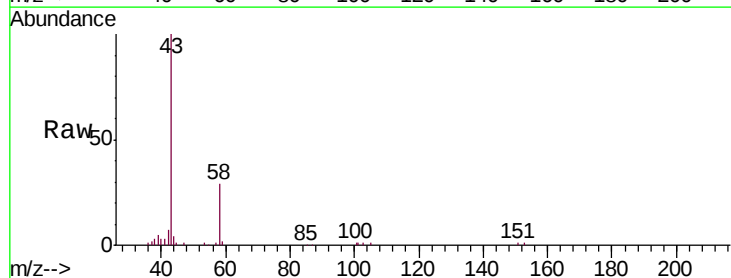
Instrument :
 MSVOA_W
 ClientSampleId :

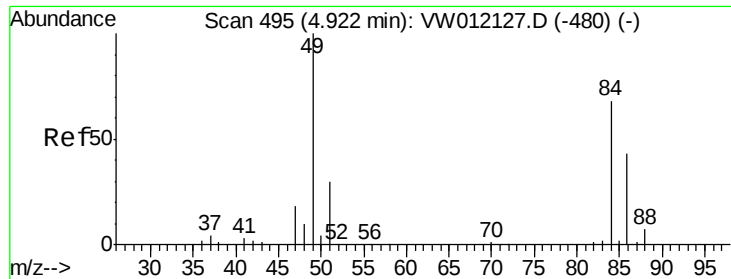
Tot Ion: 96 Resp: 3465
 Ion Ratio Lower Upper
 96 100
 61 177.2 149.1 223.7
 98 55.2 49.4 74.2



#16
 Acetone
 Concen: 70.467 ug/l
 RT: 4.14 min Scan# 367
 Delta R.T. 0.02 min
 Lab File: VW012347.D
 Acq: 30 Aug 2019 13:34

Tgt Ion: 43 Resp: 42915
 Ion Ratio Lower Upper
 43 100
 58 29.1 22.4 33.6

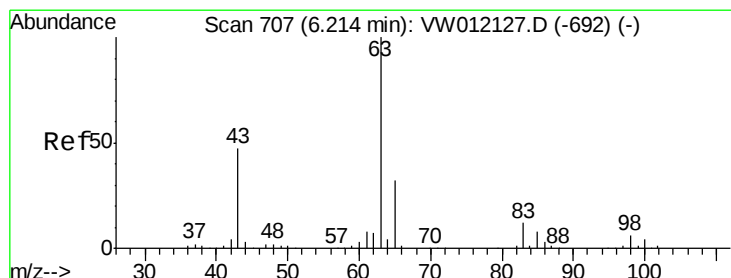
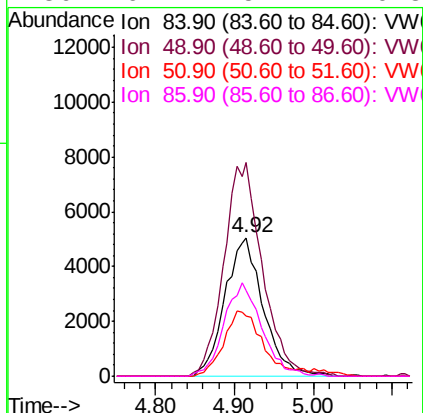
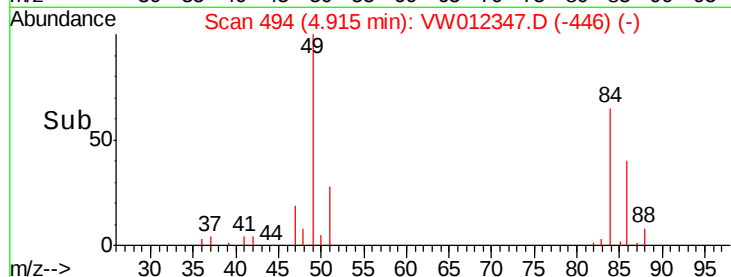
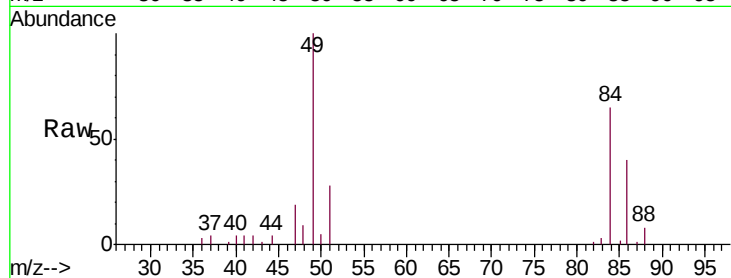




#20
Methvlene Chloride
Concen: 7.410 ug/l
RT: 4.92 min Scan# 494
Delta R.T. -0.01 min
Lab File: VW012347.D
Acq: 30 Aug 2019 13:34

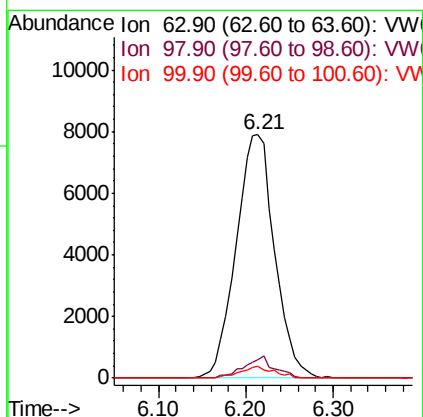
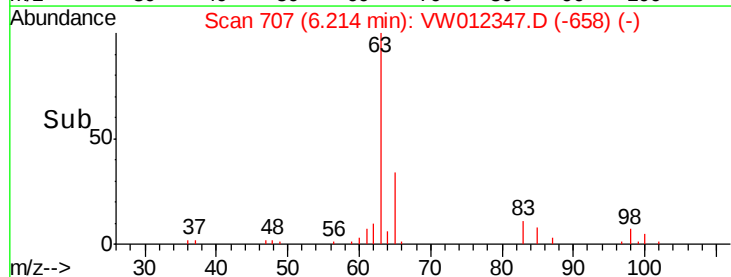
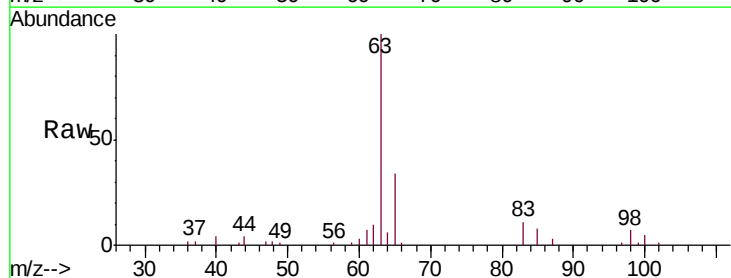
Instrument :
MSVOA_W
ClientSampleId :

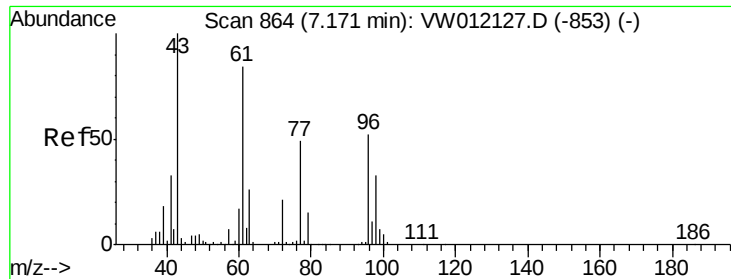
Tot Ion: 84 Resp: 17059
Ion Ratio Lower Upper
84 100
49 154.2 117.8 176.8
51 43.1 35.6 53.4
86 62.1 51.2 76.8



#24
1,1-Dichloroethane
Concen: 5.568 ug/l
RT: 6.21 min Scan# 707
Delta R.T. -0.00 min
Lab File: VW012347.D
Acq: 30 Aug 2019 13:34

Tgt Ion: 63 Resp: 24151
Ion Ratio Lower Upper
63 100
98 7.3 3.0 9.2
100 4.7 2.0 6.0





#25

2-Butanone

Concen: 1.813 ug/l

RT: 7.19 min Scan# 867

Delta R.T. 0.02 min

Lab File: VW012347.D

Acq: 30 Aug 2019 13:34

Instrument :

MSVOA_W

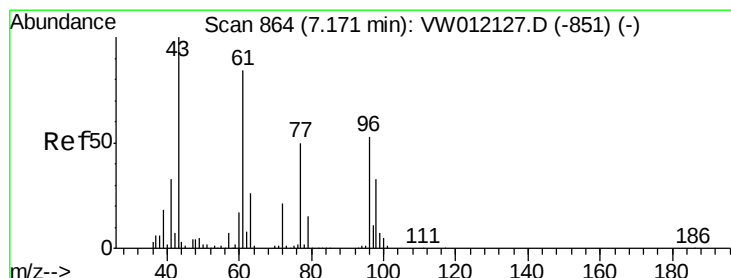
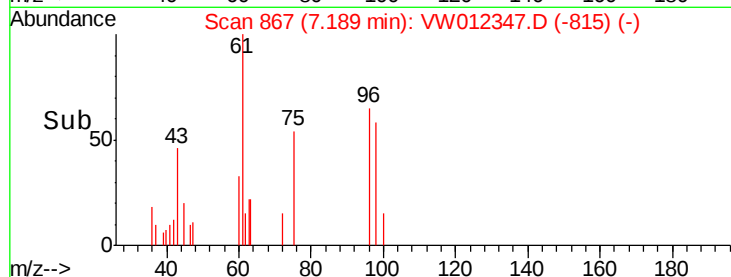
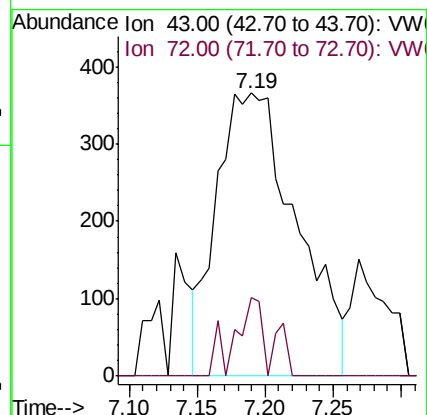
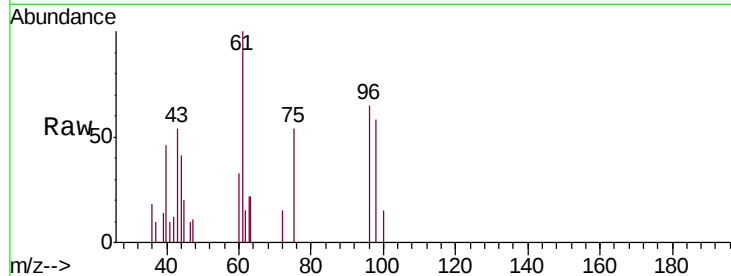
ClientSampled :

Tot Ion: 43 Resp: 1500

Ion Ratio Lower Upper

43 100

72 34.6 16.6 24.8#



#27

cis-1,2-Dichloroethene

Concen: 1.397 ug/l

RT: 7.16 min Scan# 862

Delta R.T. -0.01 min

Lab File: VW012347.D

Acq: 30 Aug 2019 13:34

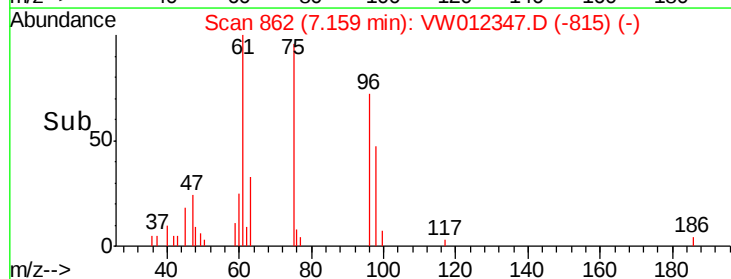
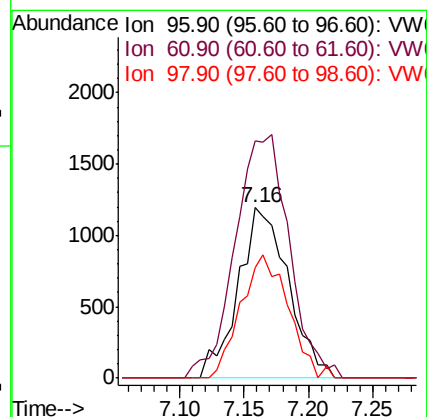
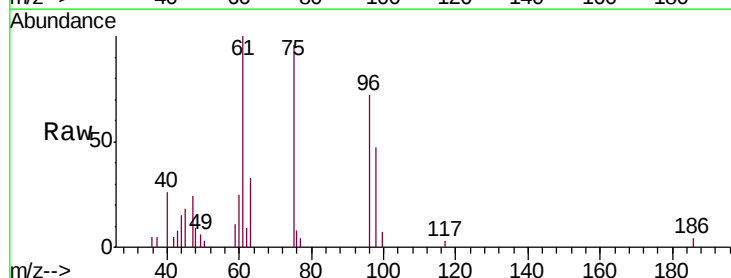
Tgt Ion: 96 Resp: 3217

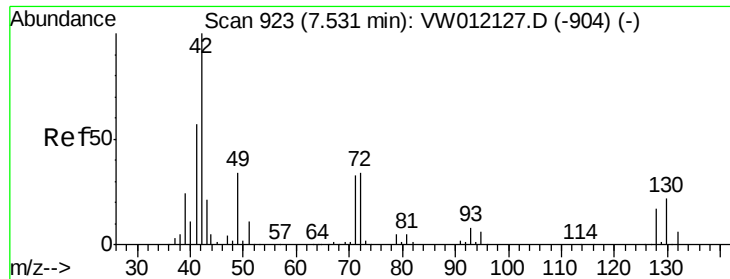
Ion Ratio Lower Upper

96 100

61 154.2 0.0 326.6

98 69.0 0.0 127.4

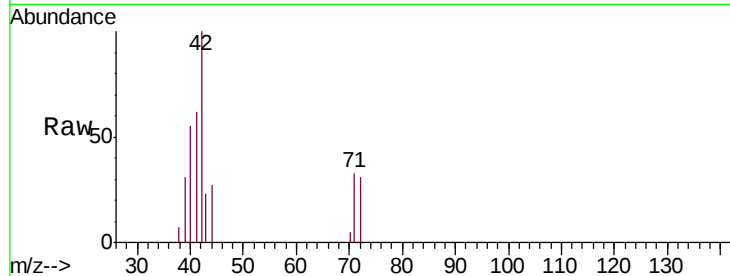




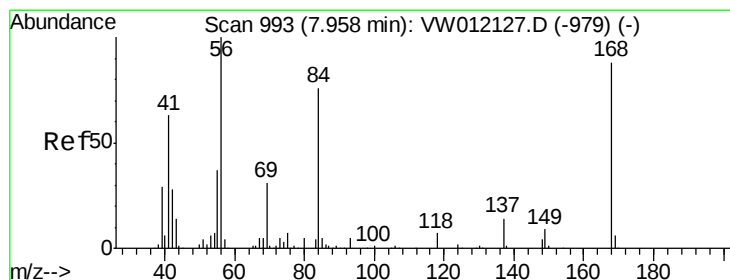
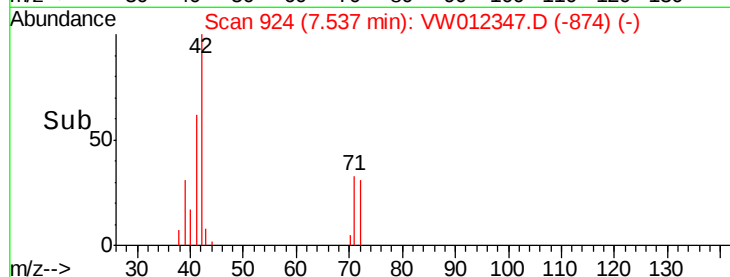
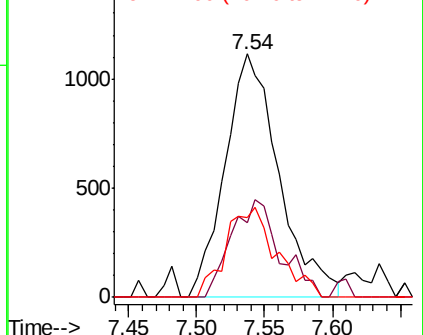
#29
Tetrahydrofuran
Concen: 6.211 ug/l
RT: 7.54 min Scan# 924
Delta R.T. 0.01 min
Lab File: VW012347.D
Acq: 30 Aug 2019 13:34

Instrument :
MSVOA_W
ClientSampled :

Tot Ion	Ratio	Lower	Upper
42	100		
72	36.3	27.3	40.9
71	34.7	25.5	38.3

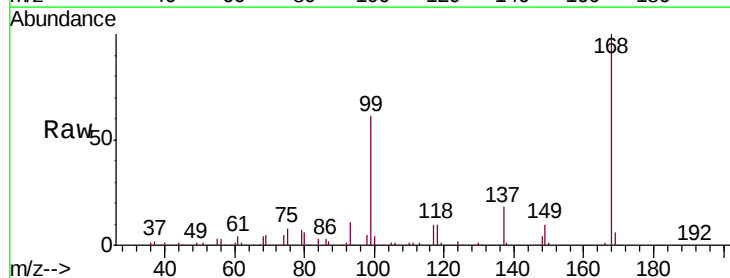


Abundance Ion 42.00 (41.70 to 42.70): VW
Ion 72.00 (71.70 to 72.70): VW
Ion 71.00 (70.70 to 71.70): VW

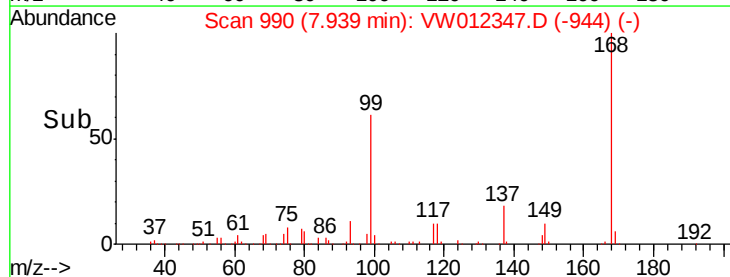
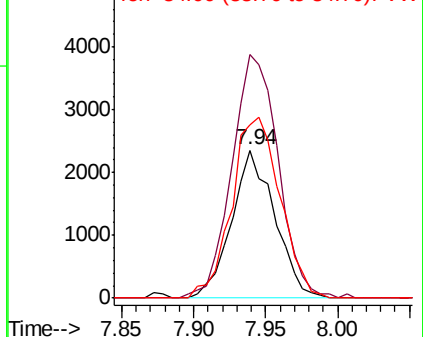


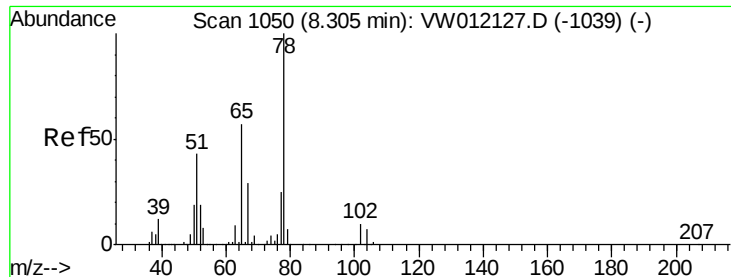
#31
Cyclohexane
Concen: 1.146 ug/l
RT: 7.94 min Scan# 990
Delta R.T. -0.02 min
Lab File: VW012347.D
Acq: 30 Aug 2019 13:34

Tgt Ion	Ratio	Lower	Upper
56	100		
69	164.6	24.9	37.3#
84	117.3	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: 54.643 ug/l

RT: 8.31 min Scan# 1050

Delta R.T. -0.00 min

Lab File: VW012347.D

Acq: 30 Aug 2019 13:34

Instrument :

MSVOA_W

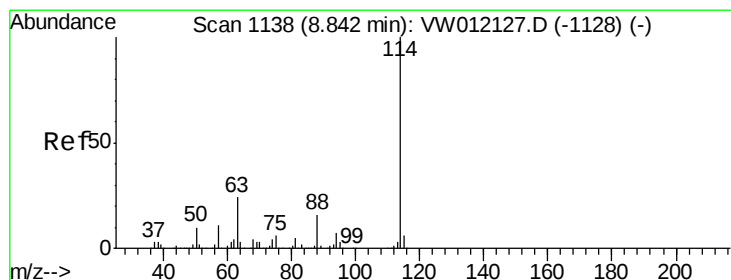
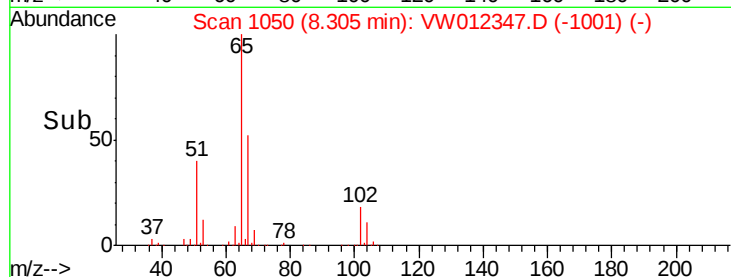
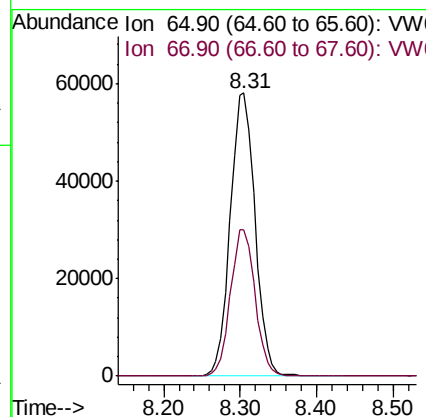
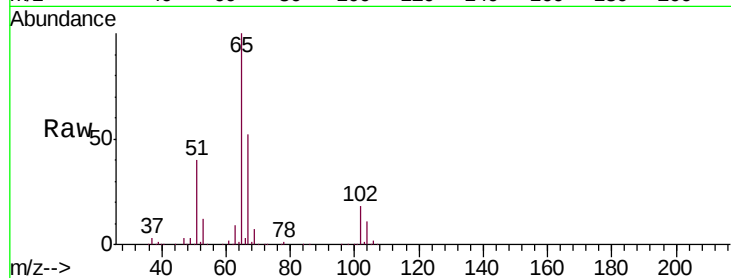
ClientSampleId :

Tot Ion: 65 Resp: 130185

Ion Ratio Lower Upper

65 100

67 51.5 0.0 102.6



#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 8.84 min Scan# 1138

Delta R.T. -0.00 min

Lab File: VW012347.D

Acq: 30 Aug 2019 13:34

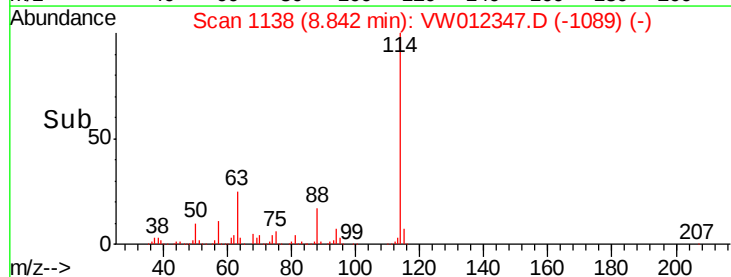
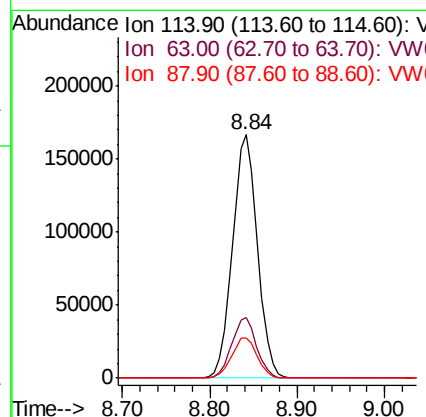
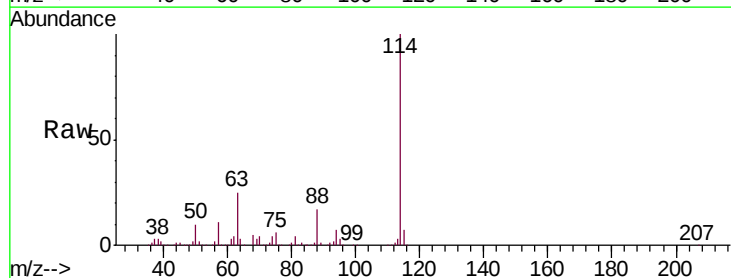
Tgt Ion: 114 Resp: 329063

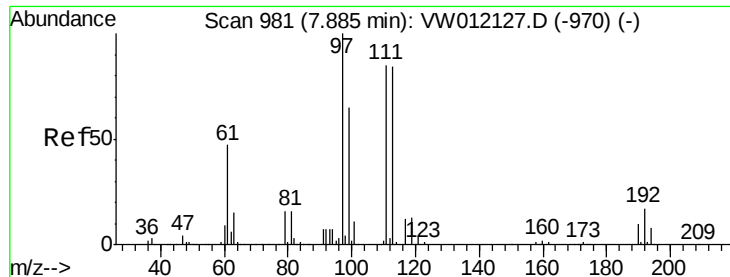
Ion Ratio Lower Upper

114 100

63 24.8 0.0 48.6

88 16.6 0.0 32.2





#35

Dibromofluoromethane

Concen: 51.159 ug/l

RT: 7.88 min Scan# 980

Delta R.T. -0.01 min

Lab File: VW012347.D

Acq: 30 Aug 2019 13:34

Instrument :

MSVOA_W

ClientSampleId :

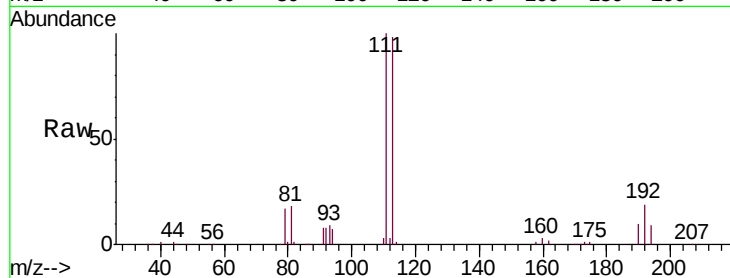
Tot Ion:113 Resp: 100485

Ion Ratio Lower Upper

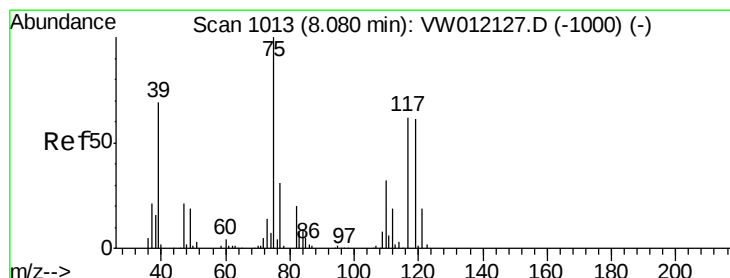
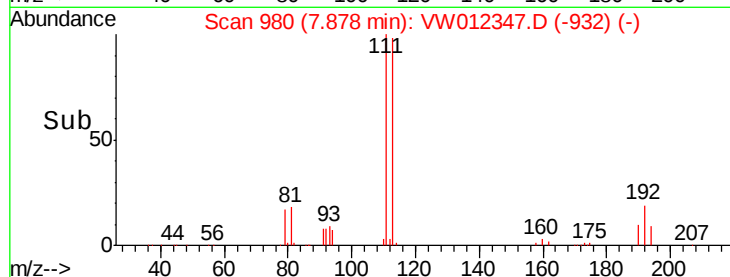
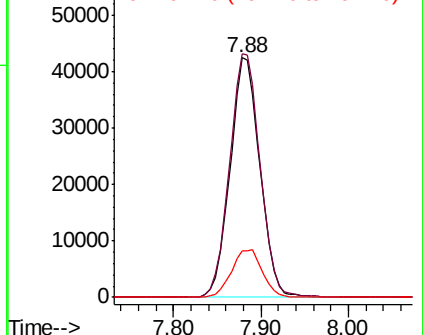
113 100

111 103.9 82.7 124.1

192 20.6 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: 5.048 ug/l

RT: 7.95 min Scan# 991

Delta R.T. -0.13 min

Lab File: VW012347.D

Acq: 30 Aug 2019 13:34

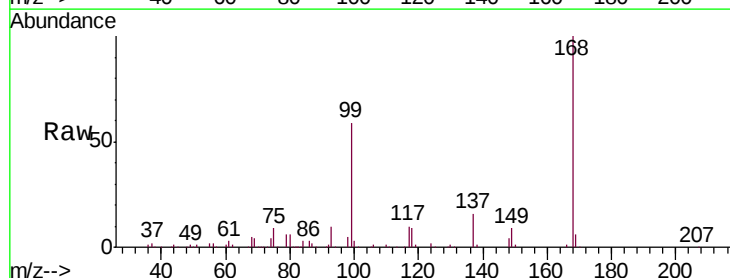
Tgt Ion: 75 Resp: 17166

Ion Ratio Lower Upper

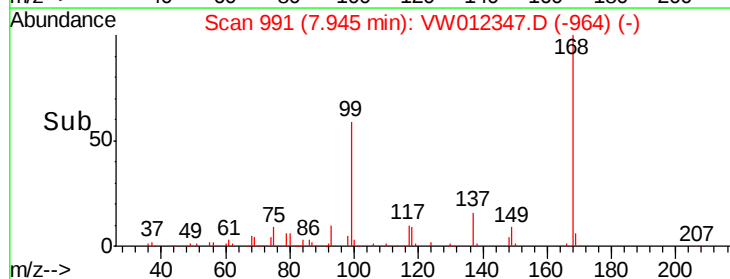
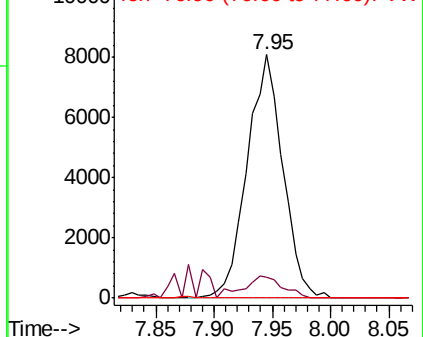
75 100

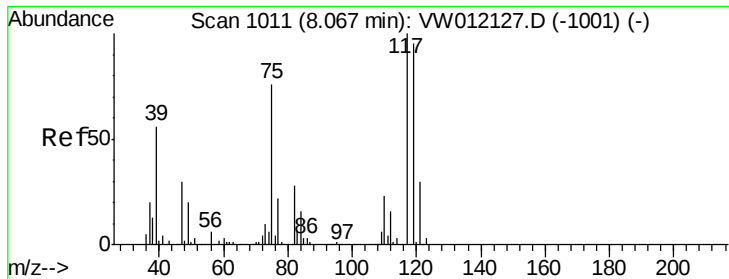
110 8.7 15.6 46.8#

77 0.0 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: 6.912 ug/l

RT: 7.95 min Scan# 991

Delta R.T. -0.12 min

Lab File: VW012347.D

Acq: 30 Aug 2019 13:34

Instrument :

MSVOA_W

ClientSampled :

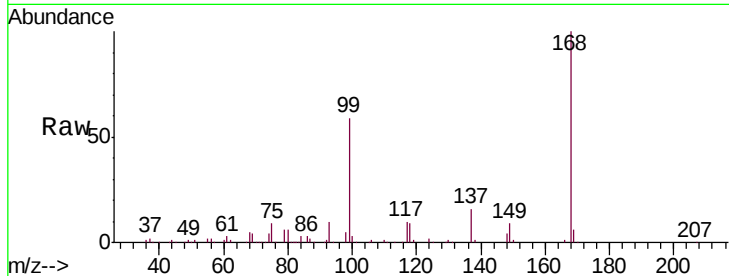
Tot Ion:117 Resp: 20344

Ion Ratio Lower Upper

117 100

119 5.4 76.2 114.2#

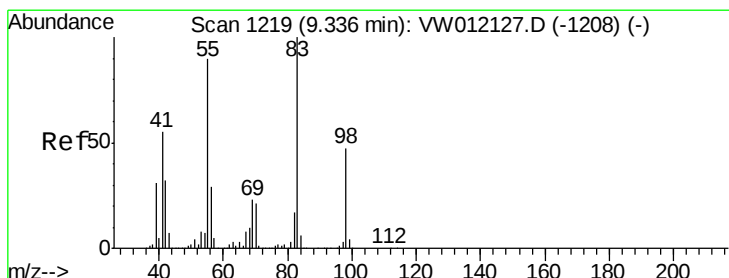
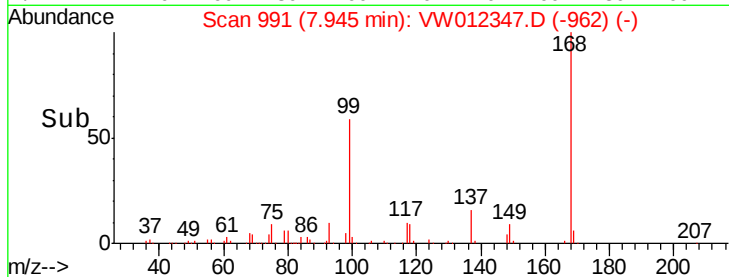
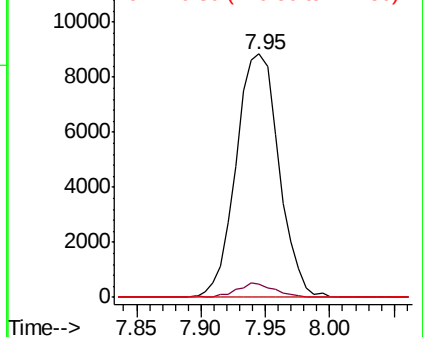
121 0.0 23.8 35.8#



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



#39

Methylcyclohexane

Concen: 3.008 ug/l

RT: 9.09 min Scan# 1179

Delta R.T. -0.24 min

Lab File: VW012347.D

Acq: 30 Aug 2019 13:34

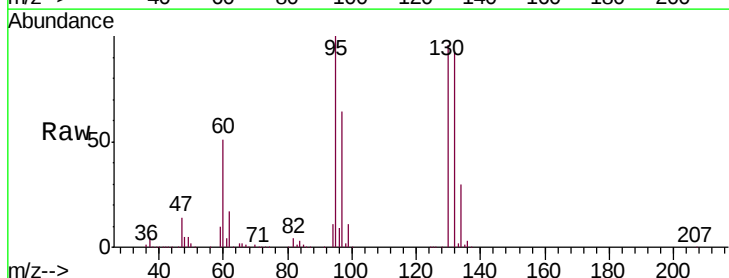
Tgt Ion: 83 Resp: 11491

Ion Ratio Lower Upper

83 100

55 0.0 71.8 107.8#

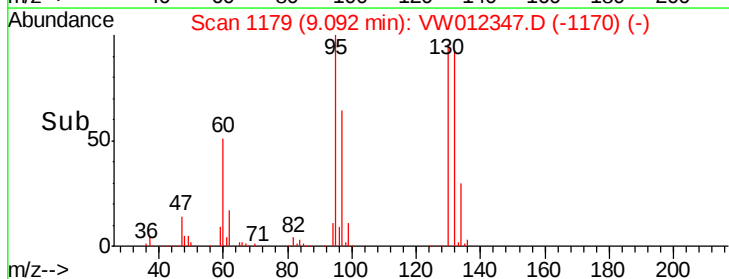
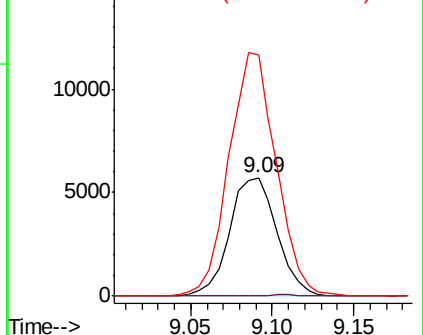
98 202.9 37.8 56.8#

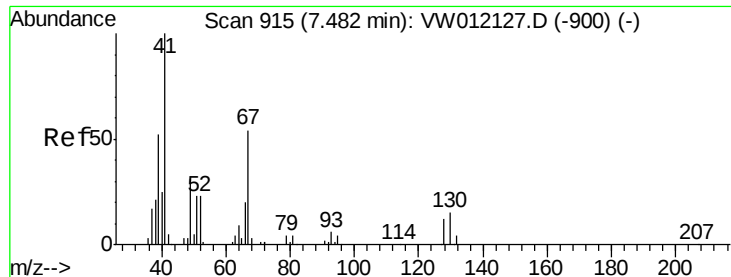


Abundance Ion 83.00 (82.70 to 83.70): VW

Ion 55.00 (54.70 to 55.70): VW

Ion 98.00 (97.70 to 98.70): VW

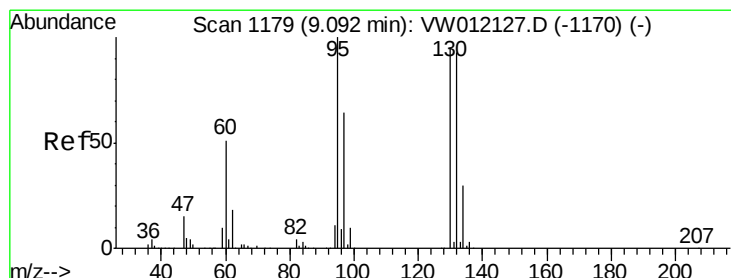
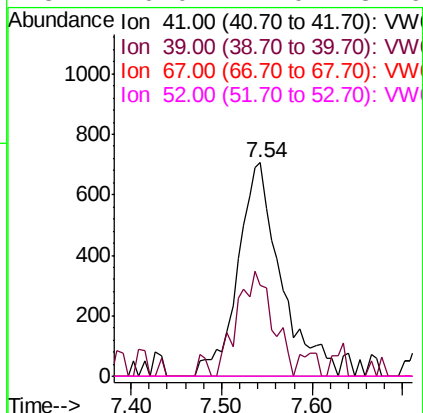
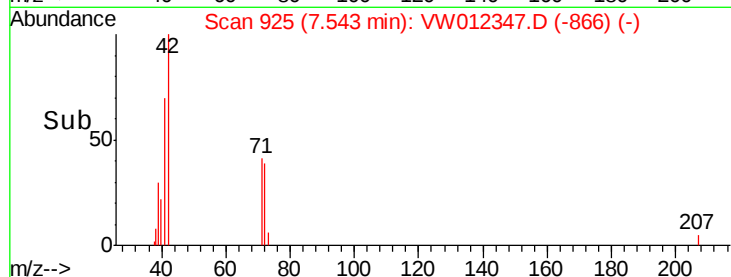
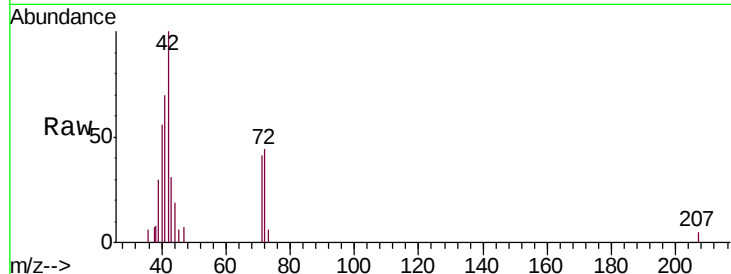




#41
Methacrylonitrile
Concen: 2.117 ug/l
RT: 7.54 min Scan# 925
Delta R.T. 0.06 min
Lab File: VW012347.D
Acq: 30 Aug 2019 13:34

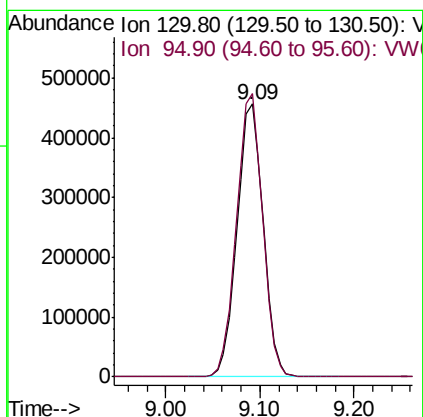
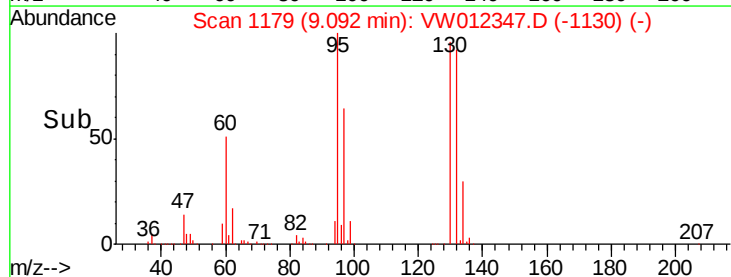
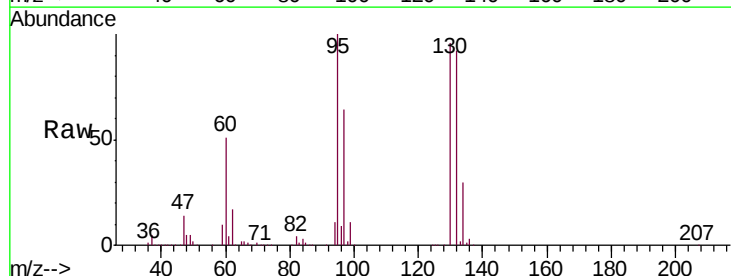
Instrument :
MSVOA_W
ClientSampled :

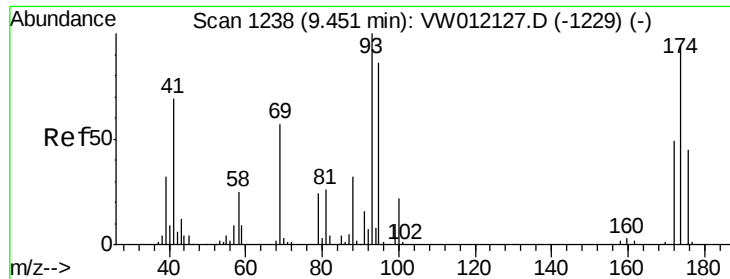
Tot Ion:	41	Resp:	2319
Ion	Ratio	Lower	Upper
41	100		
39	40.8	45.8	68.8#
67	0.0	46.2	69.4#
52	0.0	21.0	31.6#



#44
Trichloroethene
Concen: 392.378 ug/l
RT: 9.09 min Scan# 1179
Delta R.T. -0.00 min
Lab File: VW012347.D
Acq: 30 Aug 2019 13:34

Tgt Ion:	130	Resp:	885680
Ion	Ratio	Lower	Upper
130	100		
95	103.7	0.0	210.6





#49

1,4-Dioxane

Concen: 1.175 ug/l

RT: 9.28 min Scan# 1210

Delta R.T. -0.17 min

Lab File: VW012347.D

Acq: 30 Aug 2019 13:34

Instrument :
MSVOA_W
ClientSampled :

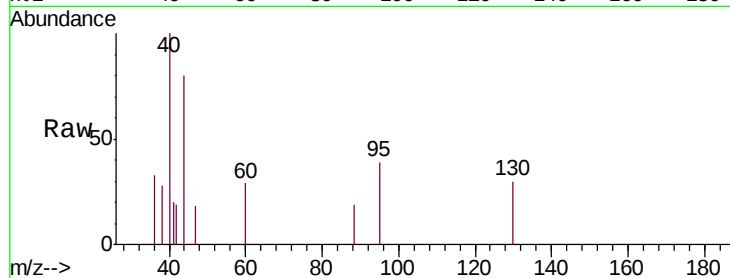
Tot Ion: 88 Resp: 20

Ion Ratio Lower Upper

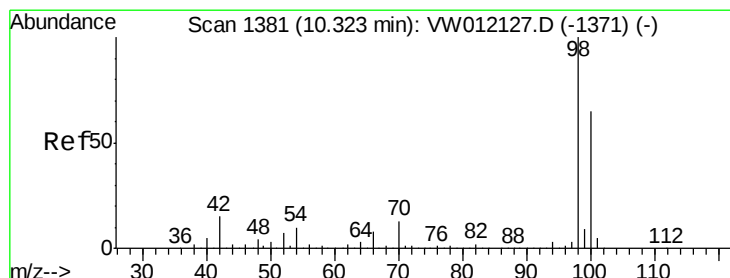
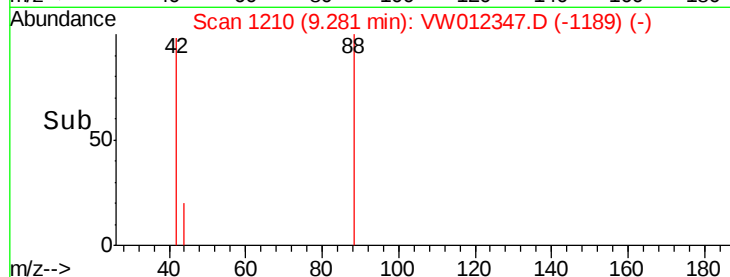
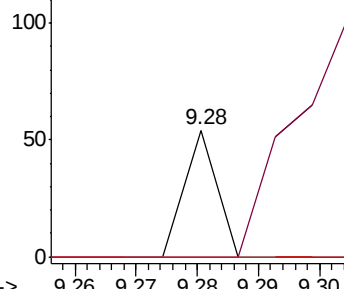
88 100

43 0.0 32.9 49.3#

58 0.0 71.0 106.4#



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: 50.426 ug/l

RT: 10.32 min Scan# 1381

Delta R.T. -0.00 min

Lab File: VW012347.D

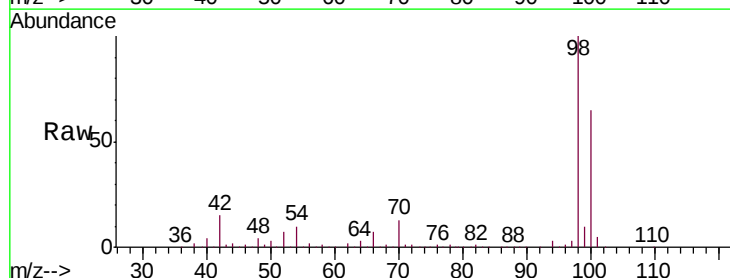
Acq: 30 Aug 2019 13:34

Tgt Ion: 98 Resp: 401606

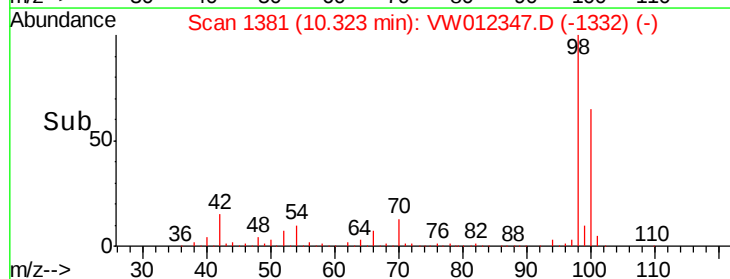
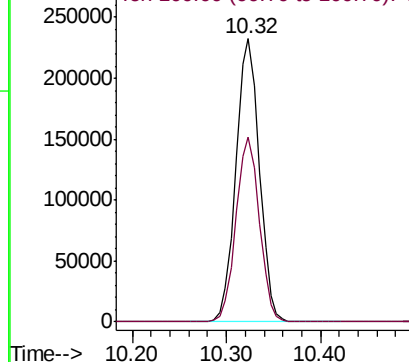
Ion Ratio Lower Upper

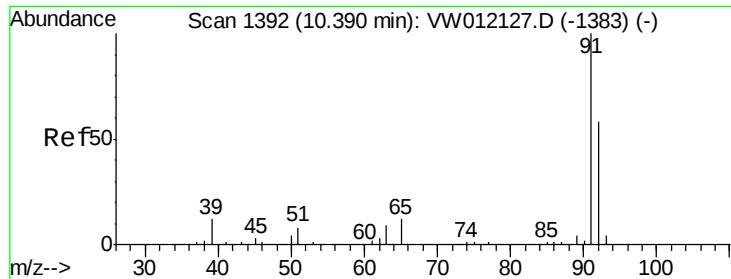
98 100

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





#52

Toluene

Concen: 1.357 ug/l

RT: 10.38 min Scan# 1391

Delta R.T. -0.01 min

Lab File: VW012347.D

Acq: 30 Aug 2019 13:34

Instrument :

MSVOA_W

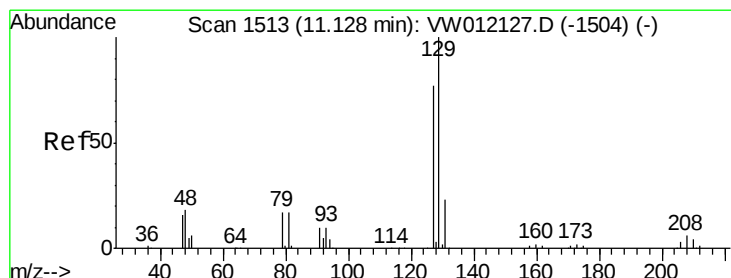
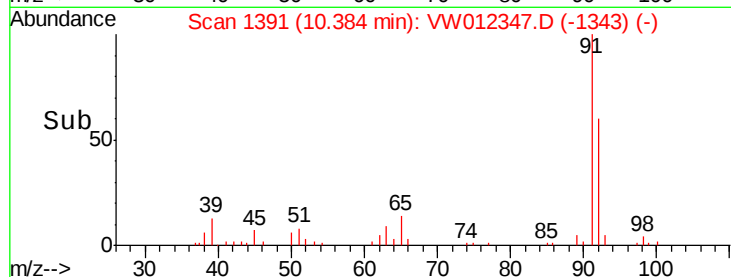
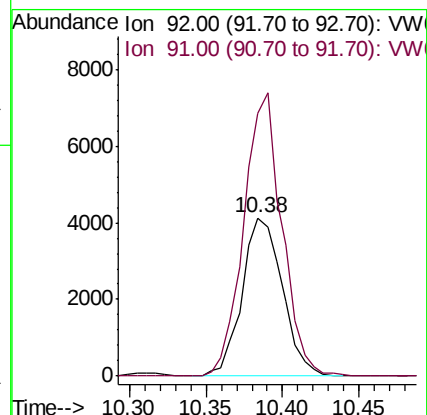
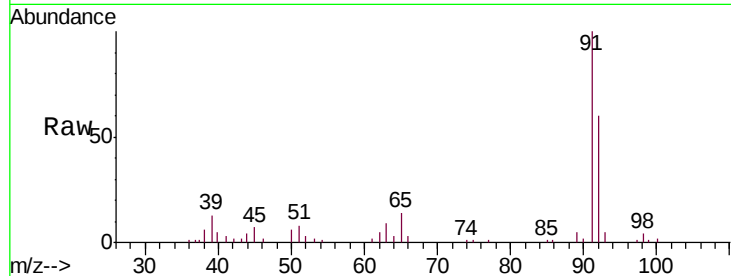
ClientSampled :

Tot Ion: 92 Resp: 7567

Ion Ratio Lower Upper

92 100

91 169.4 136.6 204.8



#60

Dibromochloromethane

Concen: 2.677 ug/l

RT: 10.86 min Scan# 1469

Delta R.T. -0.27 min

Lab File: VW012347.D

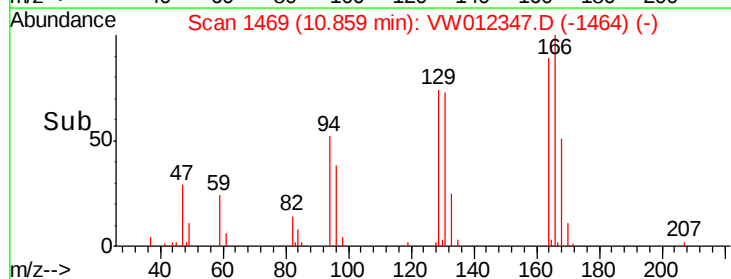
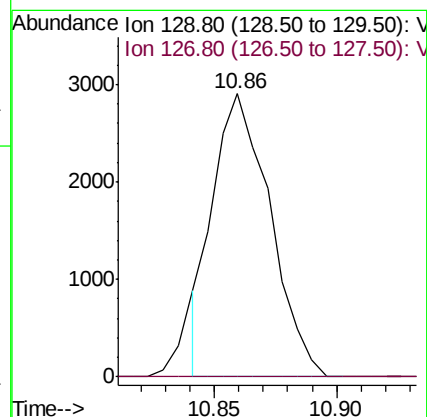
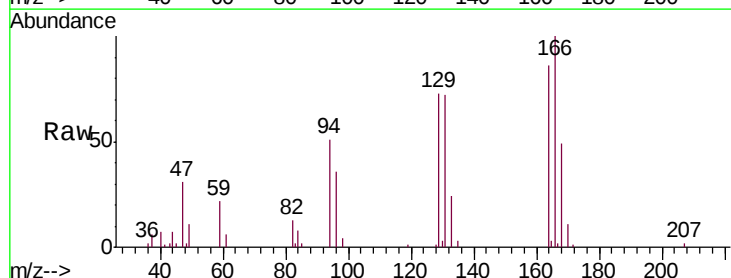
Acq: 30 Aug 2019 13:34

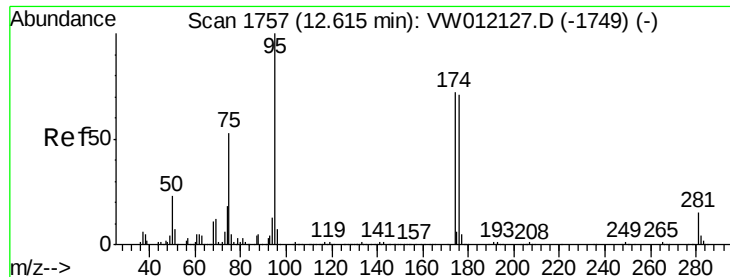
Tgt Ion: 129 Resp: 4691

Ion Ratio Lower Upper

129 100

127 0.0 38.6 115.8#

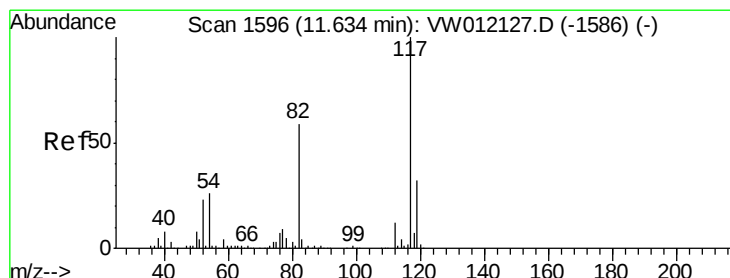
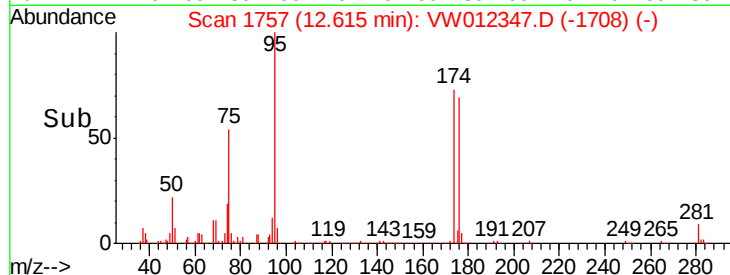
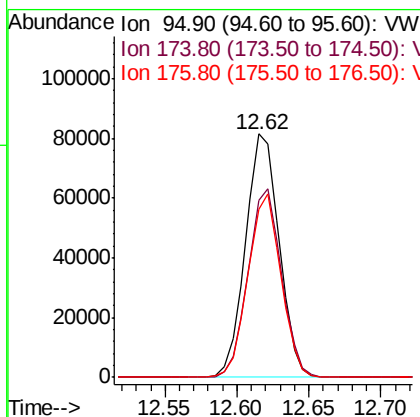
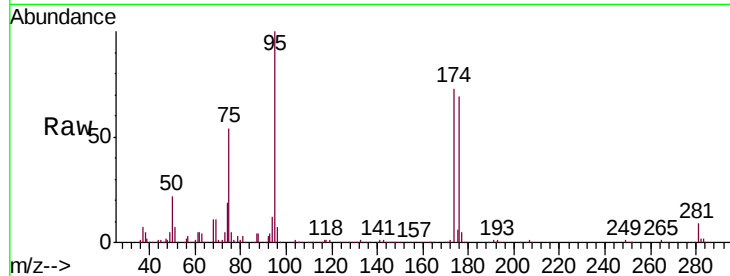




#62
4-Bromofluorobenzene
Concen: 46.802 ug/l
RT: 12.62 min Scan# 1757
Delta R.T. -0.00 min
Lab File: VW012347.D
Acq: 30 Aug 2019 13:34

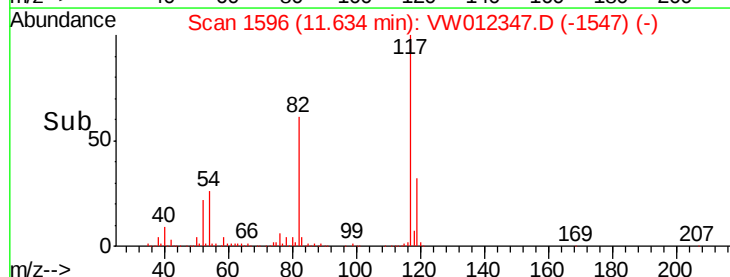
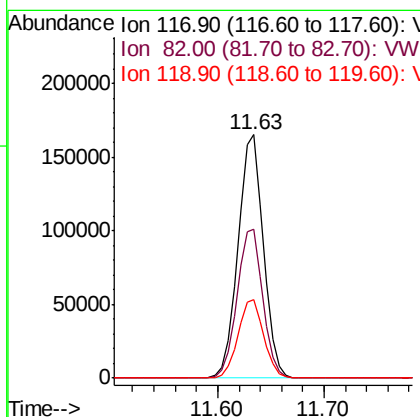
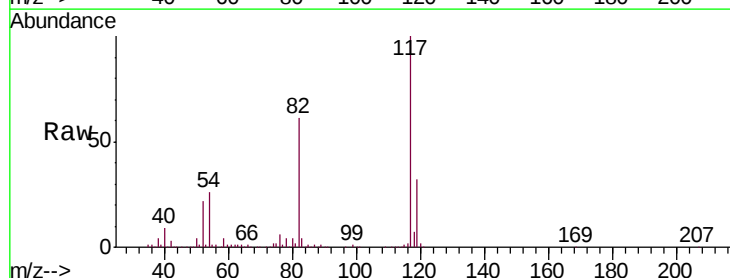
Instrument :
MSVOA_W
ClientSampleId :

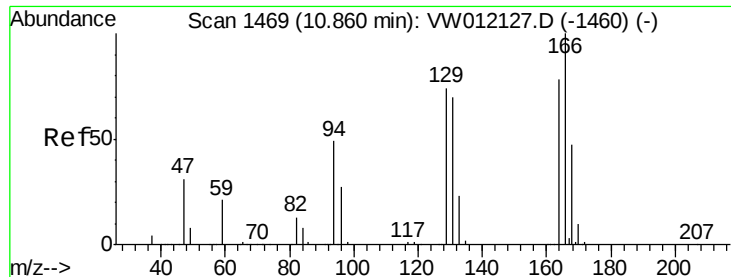
Tot Ion: 95 Resp: 131391
Ion Ratio Lower Upper
95 100
174 77.0 0.0 150.8
176 73.6 0.0 148.6



#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.63 min Scan# 1596
Delta R.T. -0.00 min
Lab File: VW012347.D
Acq: 30 Aug 2019 13:34

Tgt Ion: 117 Resp: 275845
Ion Ratio Lower Upper
117 100
82 61.2 47.4 71.2
119 32.4 25.4 38.2

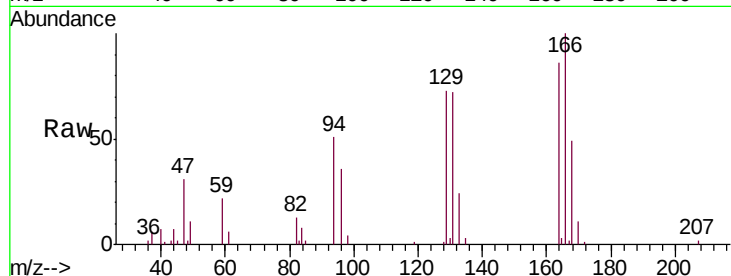




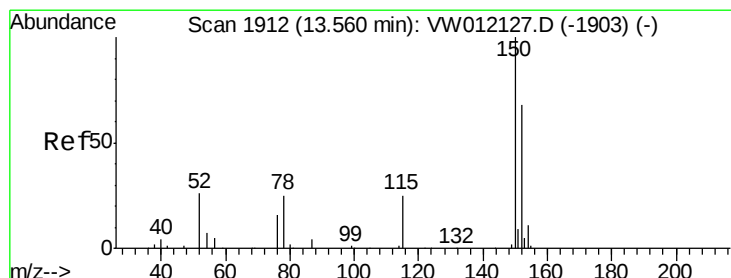
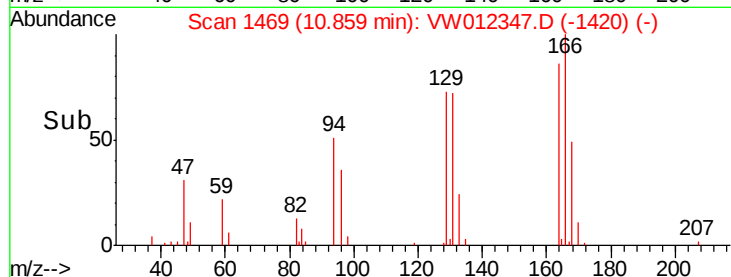
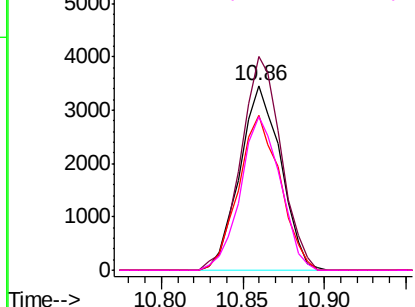
#64
Tetrachloroethene
Concen: 3.397 ug/l
RT: 10.86 min Scan# 1469
Delta R.T. -0.00 min
Lab File: VW012347.D
Acq: 30 Aug 2019 13:34

Instrument :
MSVOA_W
ClientSampleId :

Tot Ion:164 Resp: 6075
Ion Ratio Lower Upper
164 100
166 115.7 102.4 153.6
129 83.9 75.8 113.6
131 83.3 71.4 107.2

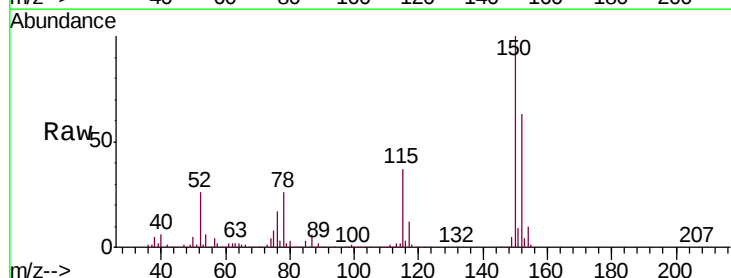


Abundance Ion 163.80 (163.50 to 164.50): V
Ion 165.80 (165.50 to 166.50): V
Ion 128.80 (128.50 to 129.50): V
Ion 130.80 (130.50 to 131.50): V

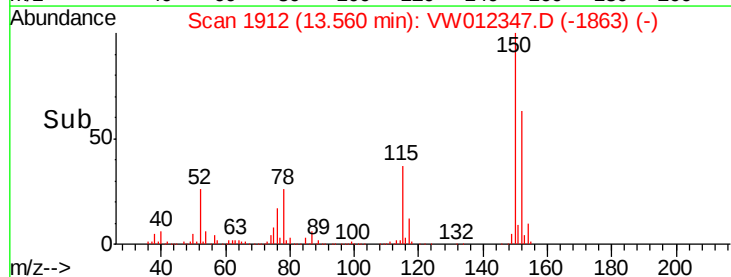
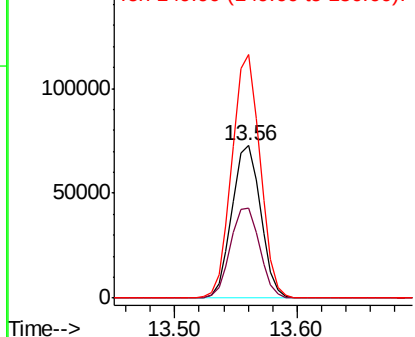


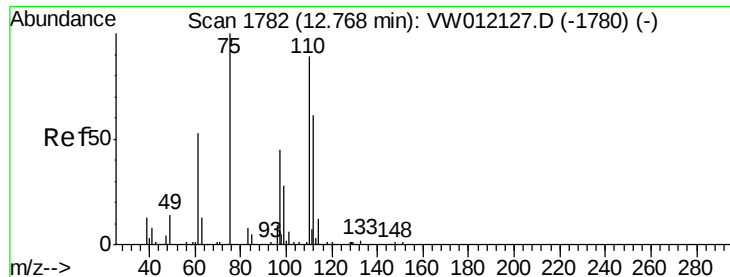
#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 13.56 min Scan# 1912
Delta R.T. -0.00 min
Lab File: VW012347.D
Acq: 30 Aug 2019 13:34

Tgt Ion:152 Resp: 118356
Ion Ratio Lower Upper
152 100
115 60.1 30.1 90.3
150 156.6 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: 60.721 ug/l

RT: 12.62 min Scan# 1757

Delta R.T. -0.15 min

Lab File: VW012347.D

Acq: 30 Aug 2019 13:34

Instrument :

MSVOA_W

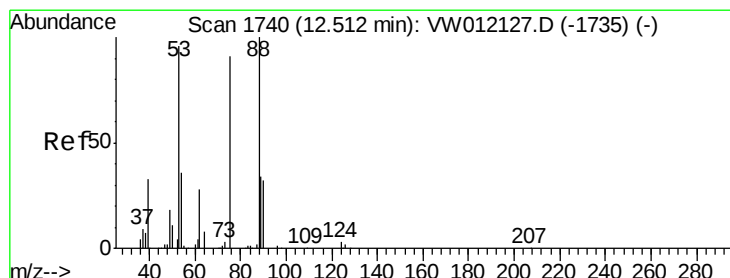
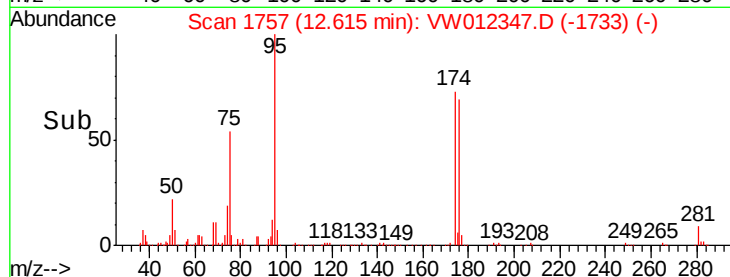
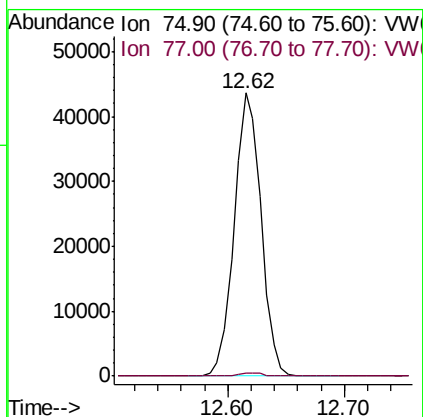
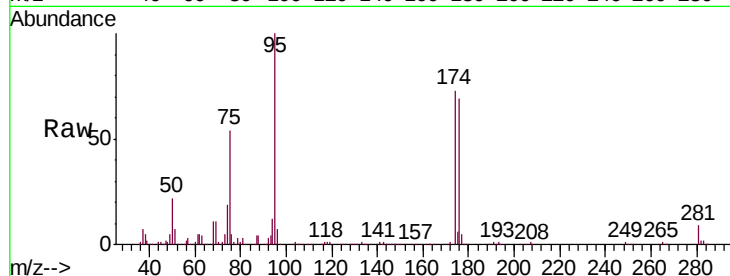
ClientSampleId :

Tot Ion: 75 Resp: 69993

Ion Ratio Lower Upper

75 100

77 1.3 0.0 0.0#



#81

trans-1,4-Dichloro-2-butene

Concen: 133.132 ug/l

RT: 12.62 min Scan# 1757

Delta R.T. 0.10 min

Lab File: VW012347.D

Acq: 30 Aug 2019 13:34

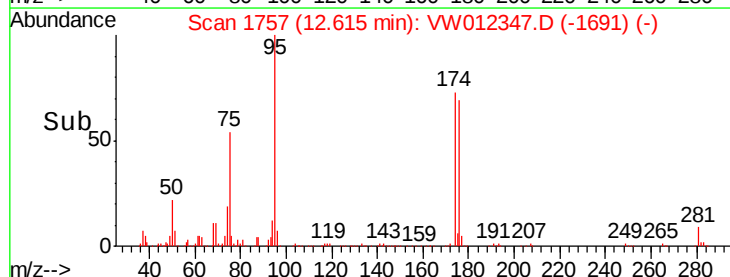
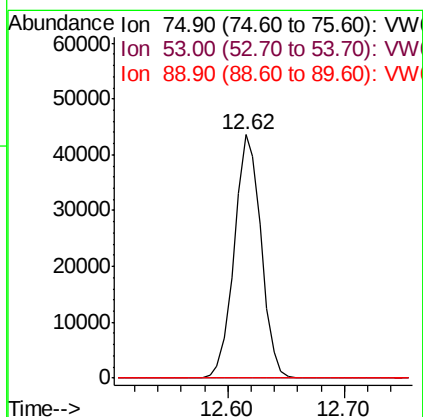
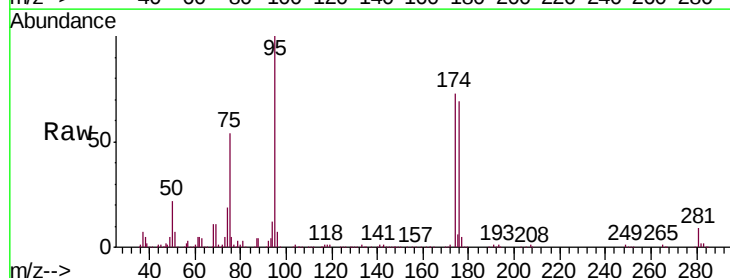
Tgt Ion: 75 Resp: 69993

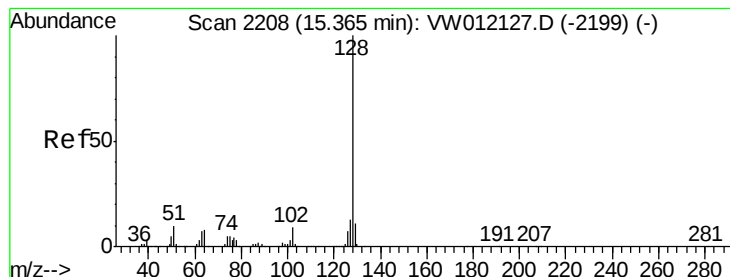
Ion Ratio Lower Upper

75 100

53 0.1 89.4 134.0#

89 0.0 34.5 51.7#





#95

Naphthalene

Concen: 4.423 ug/l

RT: 15.37 min Scan# 2209

Delta R.T. 0.01 min

Lab File: VW012347.D

Acq: 30 Aug 2019 13:34

Instrument :

MSVOA_W

ClientSampleId :

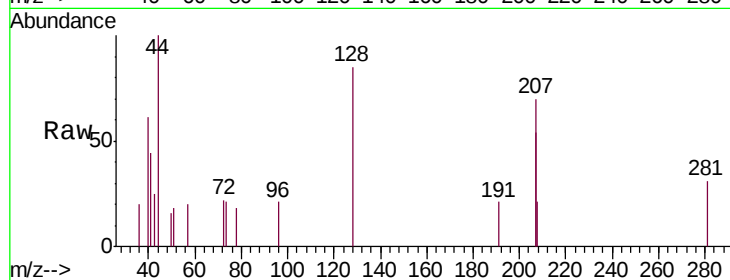
Tot Ion:128 Resp: 499

Ion Ratio Lower Upper

128 100

127 5.2 10.7 16.1#

129 4.6 8.7 13.1#



Abundance Ion 128.00 (127.70 to 128.70): V

Ion 127.00 (126.70 to 127.70): V

Ion 129.00 (128.70 to 129.70): V

