

Data Path : Z:\VOASRV\HPCHEM1\MSVOA W\DATA\VW083119\
 Data File : VW012398.D
 Acq On : 31 Aug 2019 14:18
 Operator : SY/VA
 Sample : K4493-20
 Misc : 4.40G/5ML/MSVOA W/SOIL
 ALS Vial : 13 Sample Multiplier: 1

Instrument :
 MSVOA_W
 ClientSampleId :

Quant Time: Aug 31 17:19:16 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	215517	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	8.84	114	358016	50.00	ug/l	0.00
63) Chlorobenzene-d5	11.63	117	290909	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.56	152	110349	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	144335	56.34	ug/l	0.00
Spiked Amount			Recovery	=	112.68%	
35) Dibromofluoromethane	7.88	113	111324	52.09	ug/l	0.00
Spiked Amount			Recovery	=	104.18%	
50) Toluene-d8	10.32	98	436752	50.40	ug/l	0.00
Spiked Amount			Recovery	=	100.80%	
62) 4-Bromofluorobenzene	12.62	95	132159	43.27	ug/l	0.00
Spiked Amount			Recovery	=	86.54%	

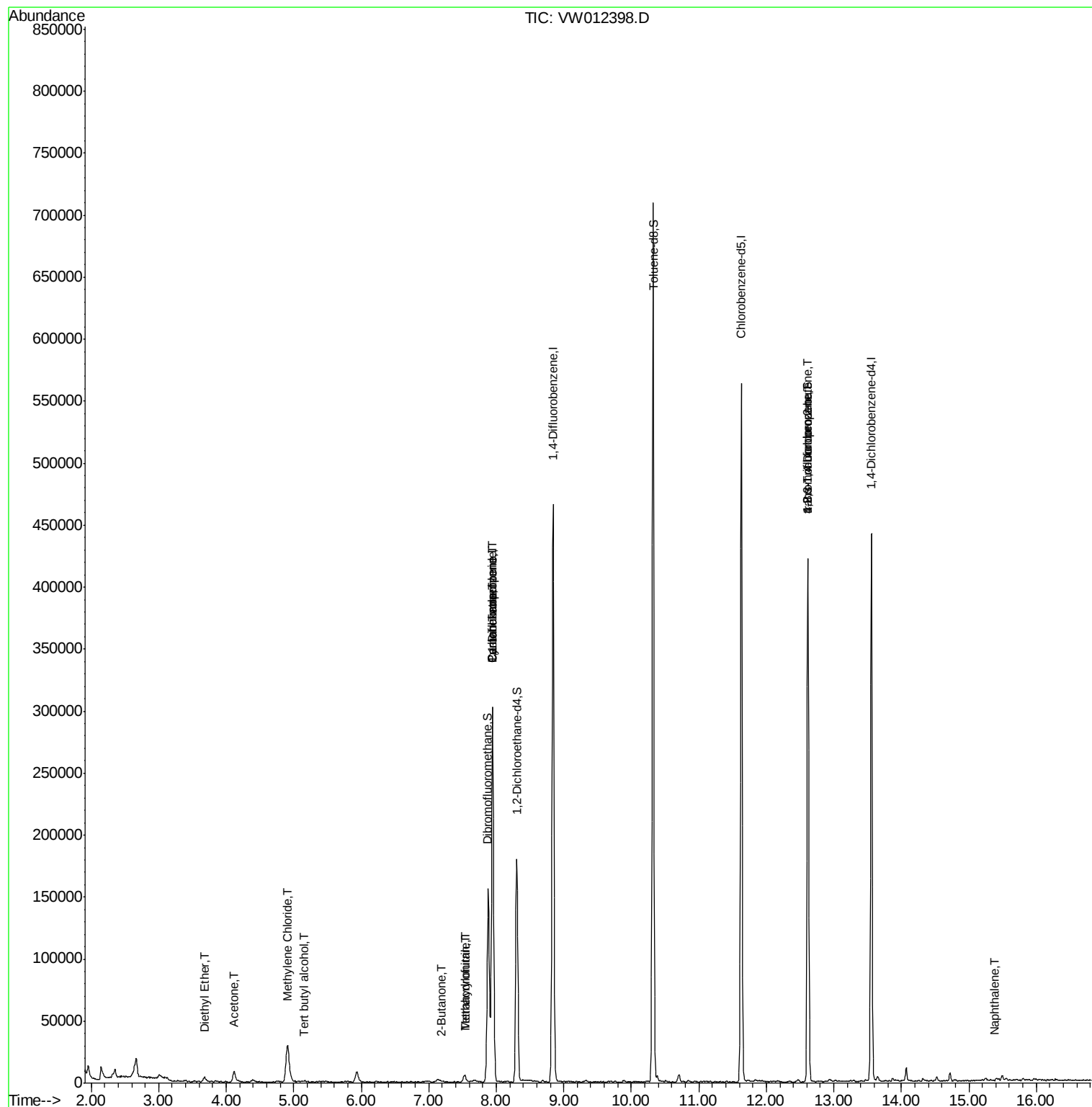
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
8) Diethyl Ether	3.67	74	1801	1.502	ug/l	92
11) Tert butyl alcohol	5.17	59	858	5.565	ug/l #	71
16) Acetone	4.12	43	15939	24.338	ug/l	94
20) Methylene Chloride	4.92	84	21779	8.797	ug/l	90
25) 2-Butanone	7.19	43	1093	1.228	ug/l	96
29) Tetrahydrofuran	7.54	42	4910	9.196	ug/l	96
31) Cyclohexane	7.95	56	5963	1.292	ug/l #	2
36) 1,1-Dichloropropene	7.94	75	19320	5.222	ug/l #	52
38) Carbon Tetrachloride	7.95	117	22006	6.872	ug/l #	16
41) Methacrylonitrile	7.53	41	3317	2.784	ug/l #	58
76) 1,2,3-Trichloropropane	12.62	75	72297	67.271	ug/l #	100
81) trans-1,4-Dichloro-2-buten	12.62	75	72297	147.493	ug/l #	6
95) Naphthalene	15.37	128	175	4.359	ug/l #	69

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

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Quant Title : SW846 8260
QLast Update : Mon Aug 26 07:18:31 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: VW012398.D

Acq: 31 Aug 2019 14:18

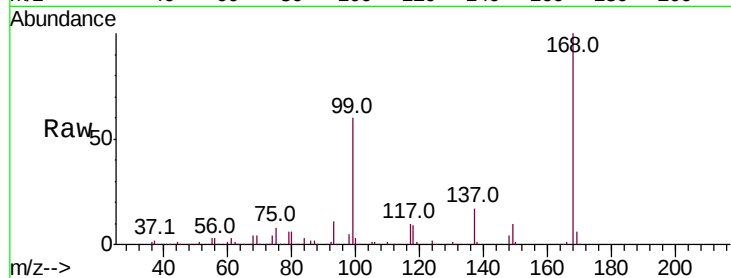
Instrument :
MSVOA_W
ClientSampleId :

Tot Ion:168 Resp: 215517

Ion Ratio Lower Upper

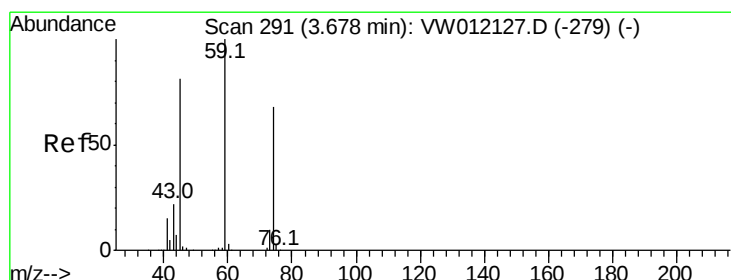
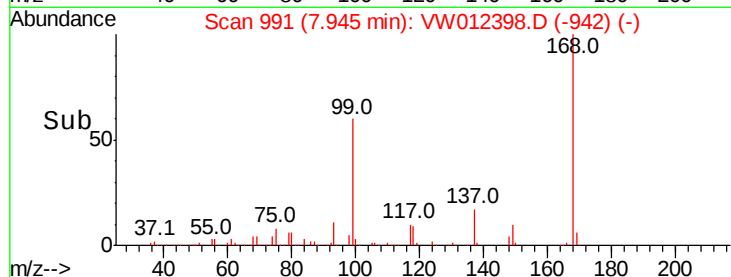
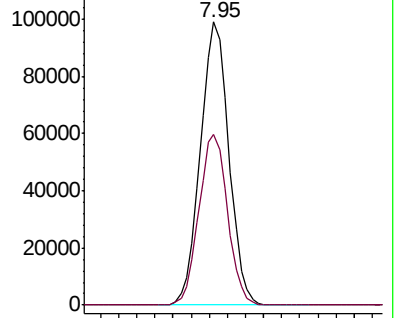
168 100

99 60.2 49.2 73.8



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VW



#8

Diethyl Ether

Concen: 1.502 ug/l

RT: 3.67 min Scan# 290

Delta R.T. -0.01 min

Lab File: VW012398.D

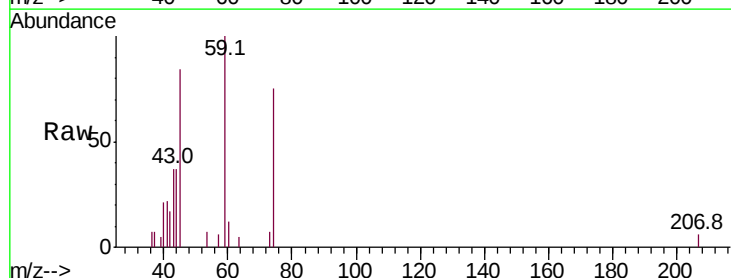
Acq: 31 Aug 2019 14:18

Tgt Ion: 74 Resp: 1801

Ion Ratio Lower Upper

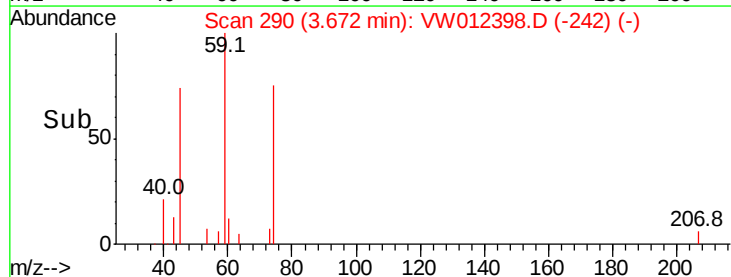
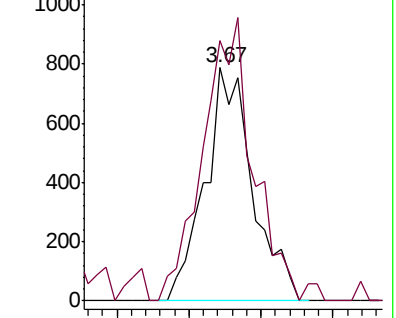
74 100

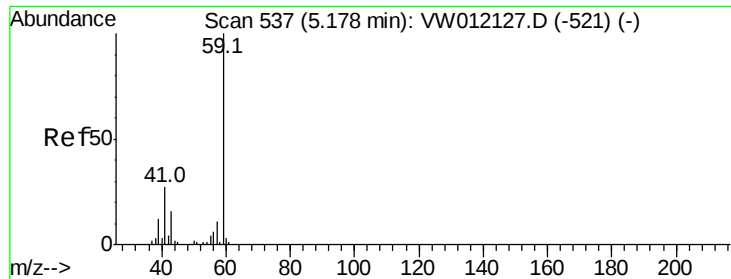
45 127.4 59.2 177.6



Abundance Ion 74.00 (73.70 to 74.70): VW

Ion 45.00 (44.70 to 45.70): VW

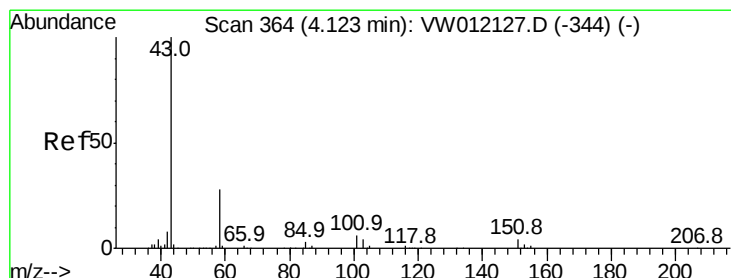
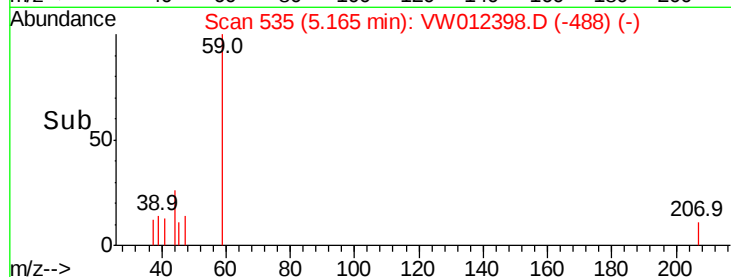
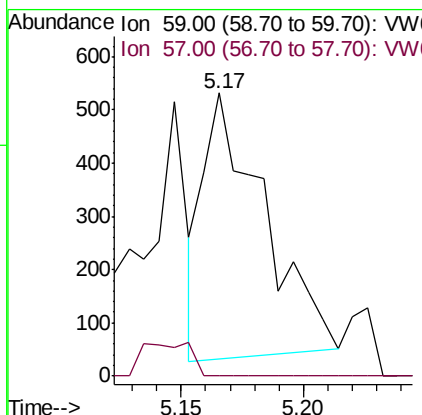
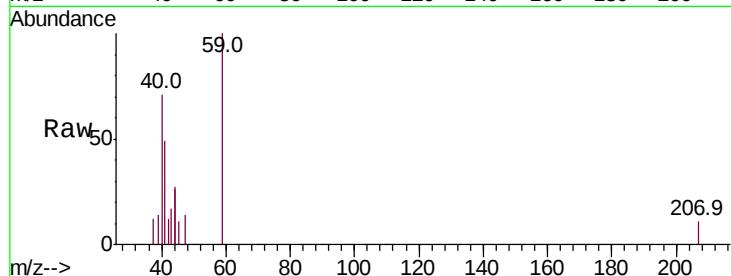




#11
Tert butyl alcohol
Concen: 5.565 ug/l
RT: 5.17 min Scan# 535
Delta R.T. -0.01 min
Lab File: VW012398.D
Acq: 31 Aug 2019 14:18

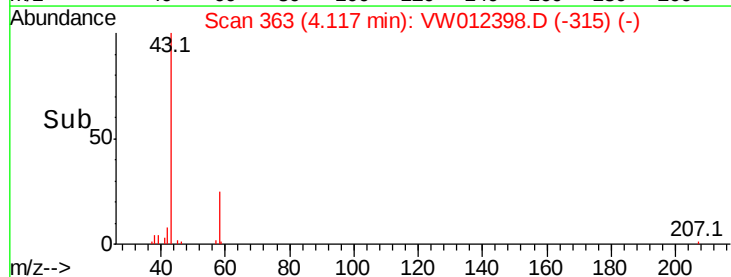
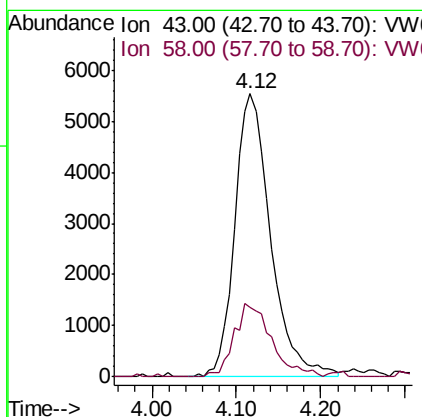
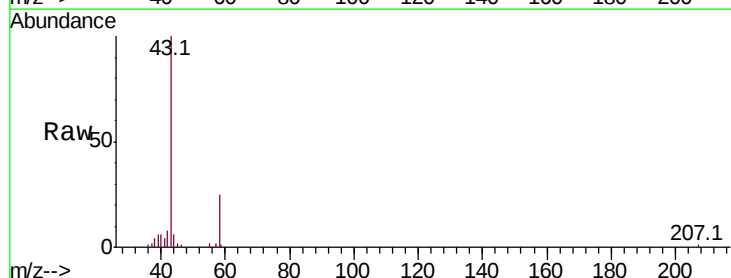
Instrument :
MSVOA_W
ClientSampled :

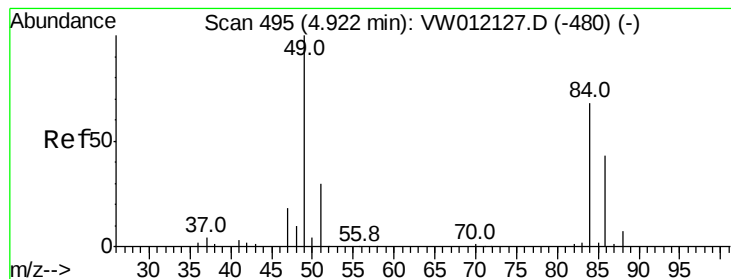
Tot Ion: 59 Resp: 858
Ion Ratio Lower Upper
59 100
57 0.0 9.0 13.4#



#16
Acetone
Concen: 24.338 ug/l
RT: 4.12 min Scan# 363
Delta R.T. -0.01 min
Lab File: VW012398.D
Acq: 31 Aug 2019 14:18

Tgt Ion: 43 Resp: 15939
Ion Ratio Lower Upper
43 100
58 24.6 22.4 33.6





#20

Methvlene Chloride

Concen: 8.797 ug/l

RT: 4.92 min Scan# 494

Delta R.T. -0.01 min

Lab File: VW012398.D

Acq: 31 Aug 2019 14:18

Instrument :

MSVOA_W

ClientSampleId :

Tot Ion: 84 Resp: 21779

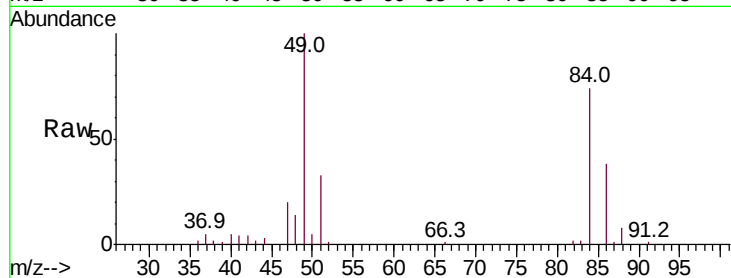
Ion Ratio Lower Upper

84 100

49 135.1 117.8 176.8

51 44.5 35.6 53.4

86 51.8 51.2 76.8

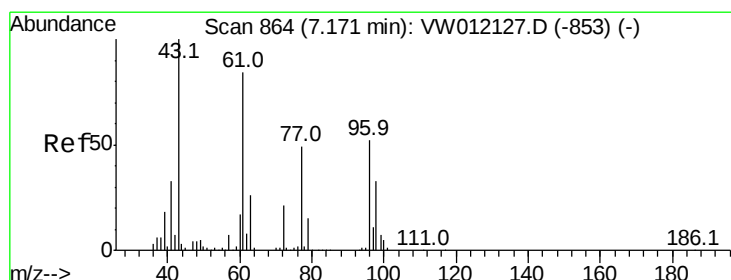
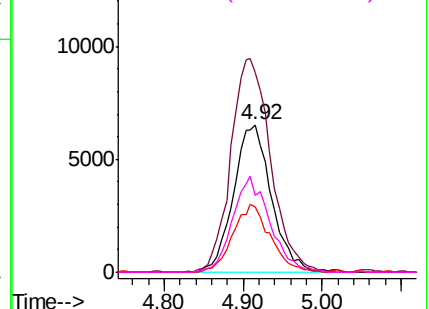
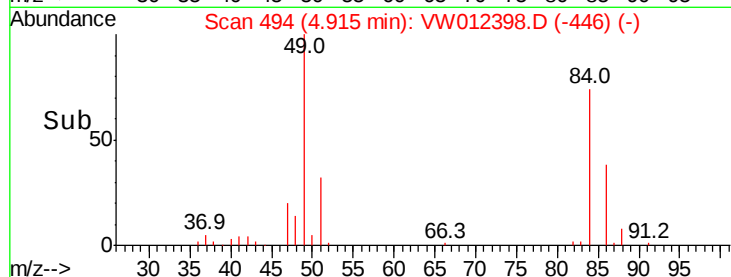


Abundance Ion 83.90 (83.60 to 84.60): VW

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



#25

2-Butanone

Concen: 1.228 ug/l

RT: 7.19 min Scan# 867

Delta R.T. 0.02 min

Lab File: VW012398.D

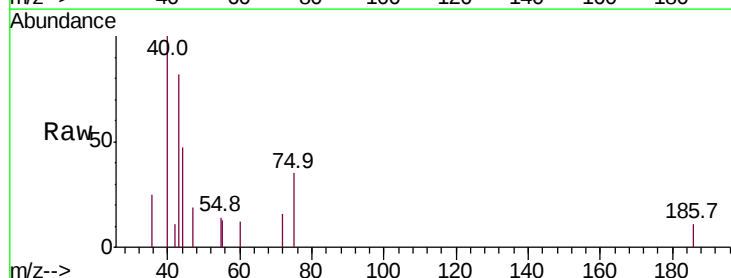
Acq: 31 Aug 2019 14:18

Tgt Ion: 43 Resp: 1093

Ion Ratio Lower Upper

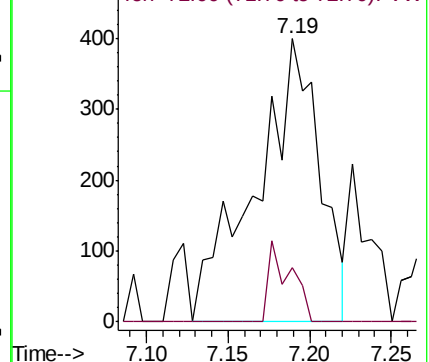
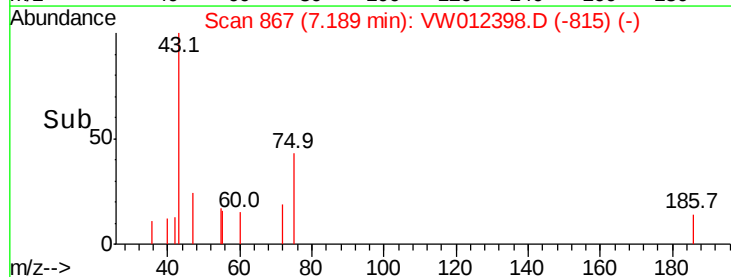
43 100

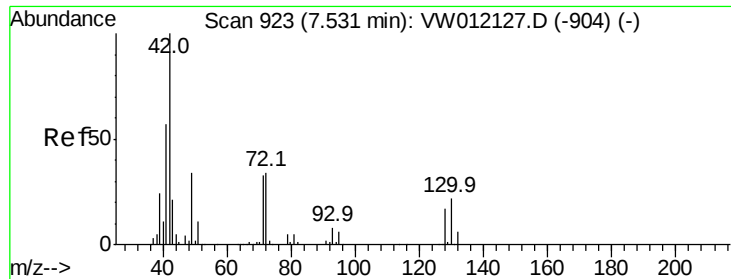
72 19.0 16.6 24.8



Abundance Ion 43.00 (42.70 to 43.70): VW

Ion 72.00 (71.70 to 72.70): VW

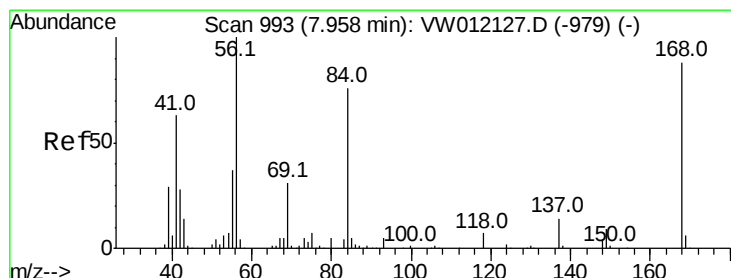
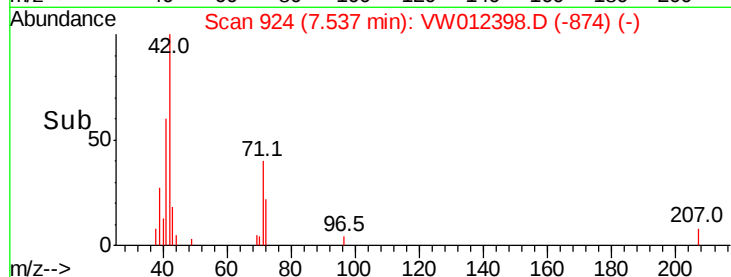
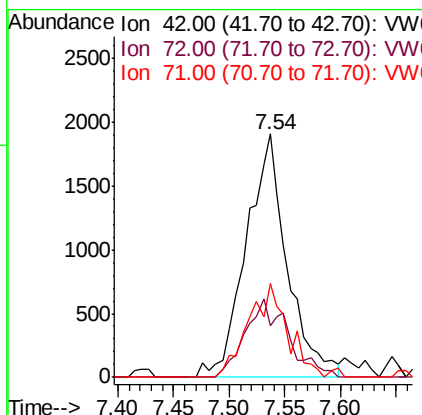
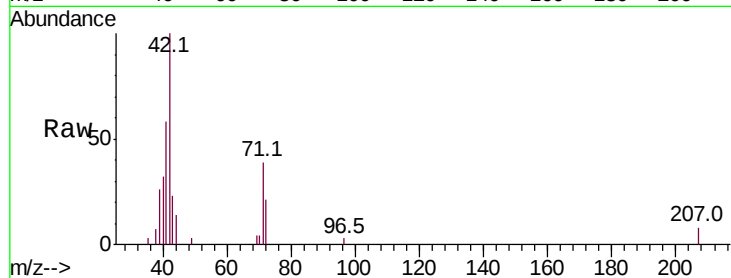




#29
Tetrahydrofuran
Concen: 9.196 ug/l
RT: 7.54 min Scan# 924
Delta R.T. 0.01 min
Lab File: VW012398.D
Acq: 31 Aug 2019 14:18

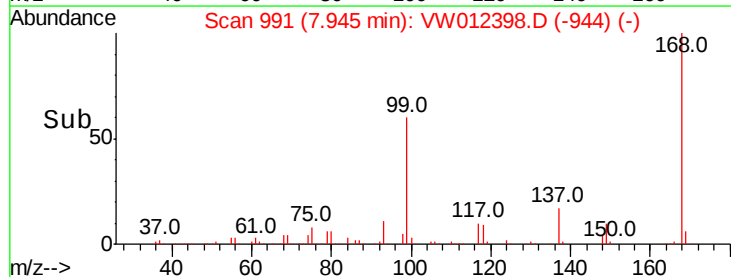
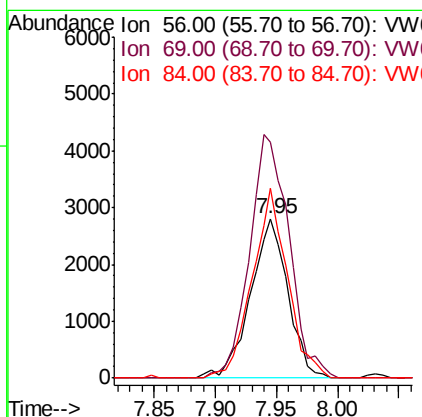
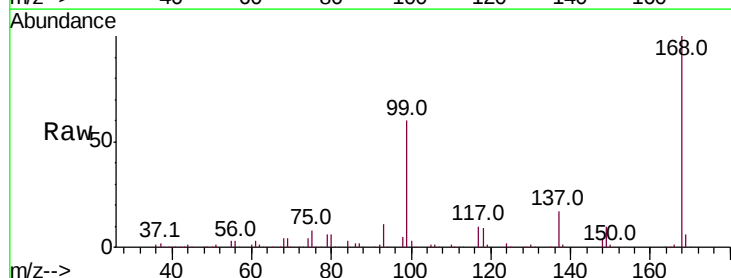
Instrument :
MSVOA_W
ClientSampleId :

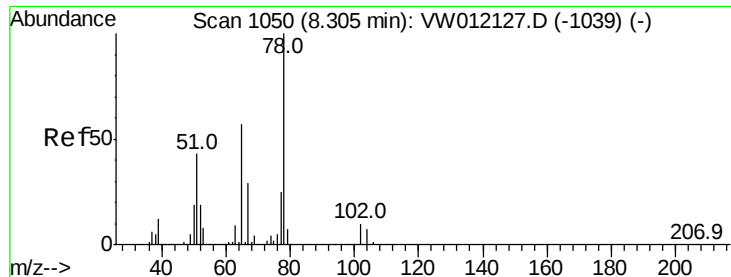
Tot Ion: 42 Resp: 4910
Ion Ratio Lower Upper
42 100
72 33.6 27.3 40.9
71 36.5 25.5 38.3



#31
Cyclohexane
Concen: 1.292 ug/l
RT: 7.95 min Scan# 991
Delta R.T. -0.01 min
Lab File: VW012398.D
Acq: 31 Aug 2019 14:18

Tgt Ion: 56 Resp: 5963
Ion Ratio Lower Upper
56 100
69 148.0 24.9 37.3#
84 119.4 60.6 90.8#

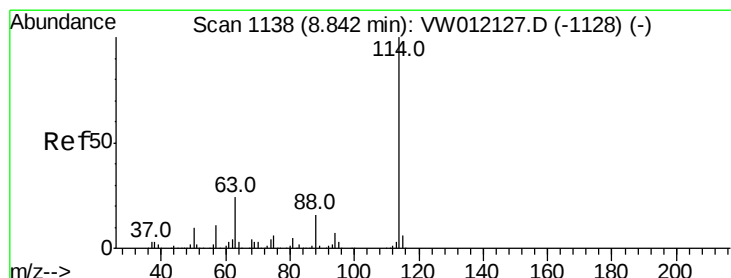
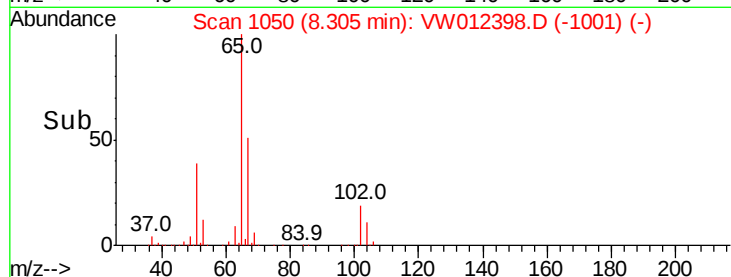
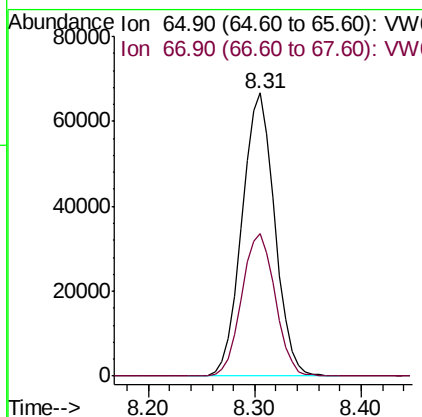
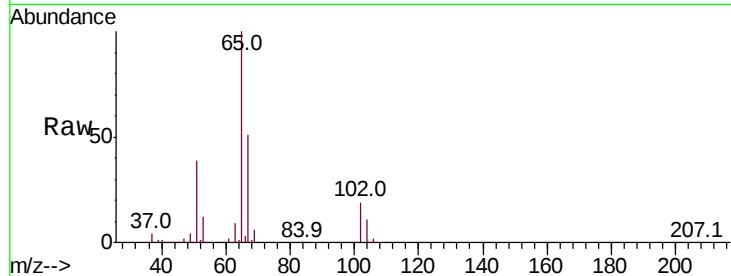




#33
 1,2-Dichloroethane-d4
 Concen: 56.337 ug/l
 RT: 8.31 min Scan# 1050
 Delta R.T. -0.00 min
 Lab File: VW012398.D
 Acq: 31 Aug 2019 14:18

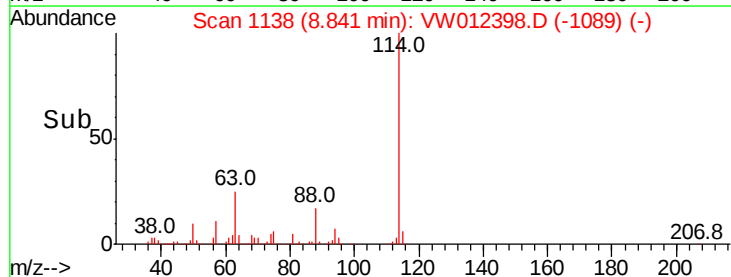
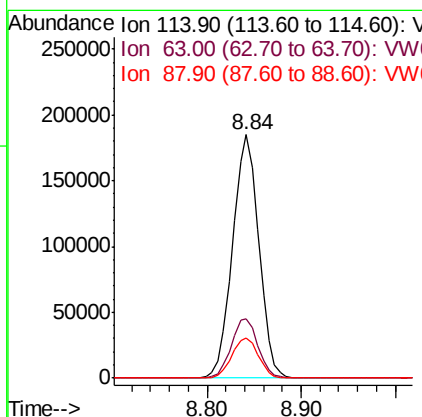
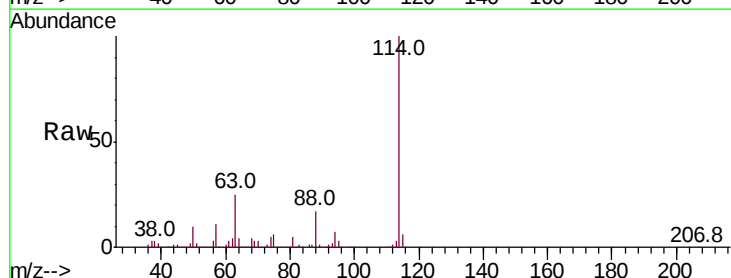
Instrument :
 MSVOA_W
 ClientSampleId :

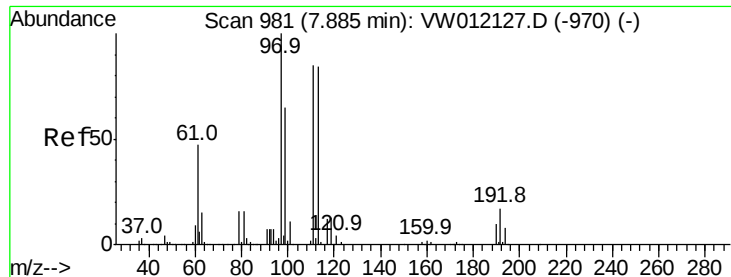
Tot Ion: 65 Resp: 144335
 Ion Ratio Lower Upper
 65 100
 67 51.5 0.0 102.6



#34
 1,4-Difluorobenzene
 Concen: 50.000 ug/l
 RT: 8.84 min Scan# 1138
 Delta R.T. -0.00 min
 Lab File: VW012398.D
 Acq: 31 Aug 2019 14:18

Tgt Ion: 114 Resp: 358016
 Ion Ratio Lower Upper
 114 100
 63 24.6 0.0 48.6
 88 16.6 0.0 32.2





#35

Dibromofluoromethane

Concen: 52.093 ug/l

RT: 7.88 min Scan# 980

Delta R.T. -0.01 min

Lab File: VW012398.D

Acq: 31 Aug 2019 14:18

Instrument :
MSVOA_W
ClientSampleId :

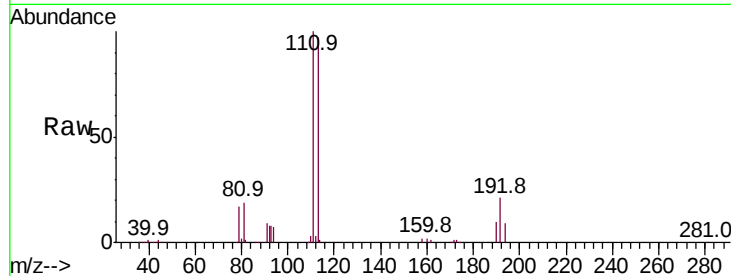
Tot Ion:113 Resp: 111324

Ion Ratio Lower Upper

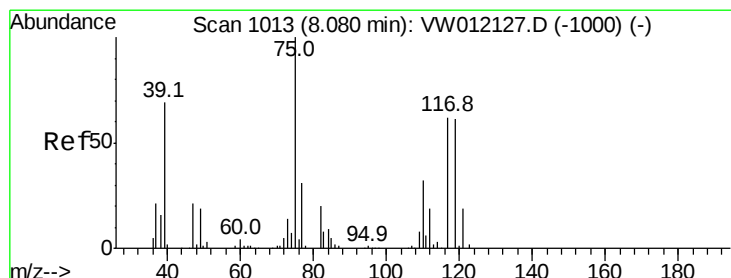
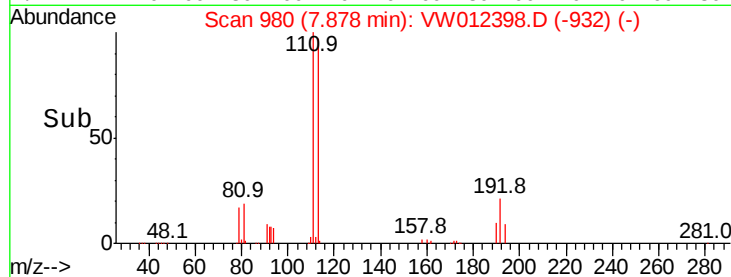
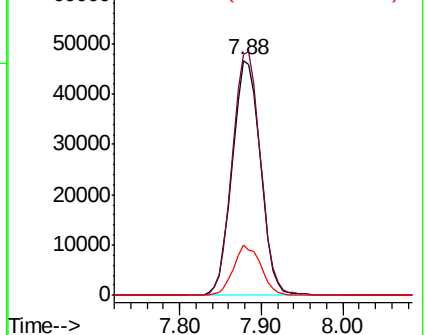
113 100

111 103.7 82.7 124.1

192 20.7 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: 5.222 ug/l

RT: 7.94 min Scan# 990

Delta R.T. -0.14 min

Lab File: VW012398.D

Acq: 31 Aug 2019 14:18

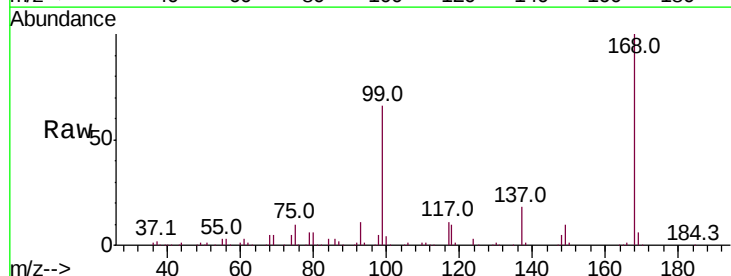
Tgt Ion: 75 Resp: 19320

Ion Ratio Lower Upper

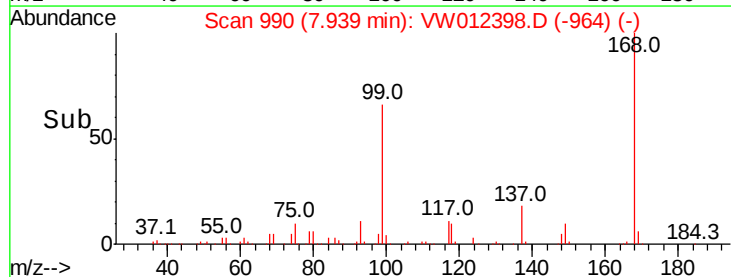
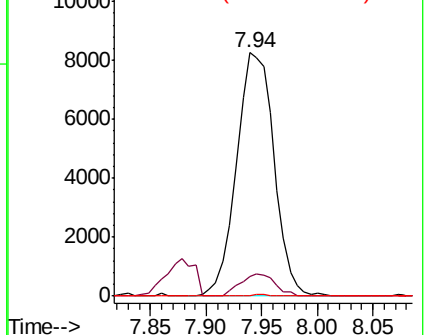
75 100

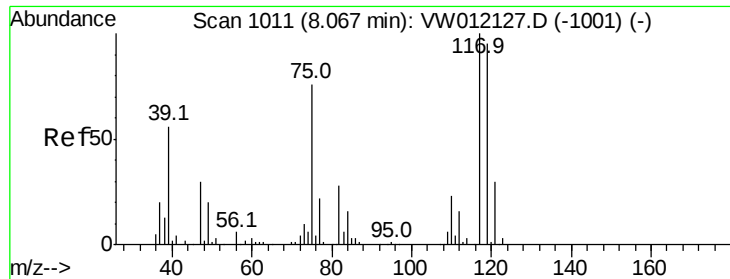
110 8.5 15.6 46.8#

77 0.3 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

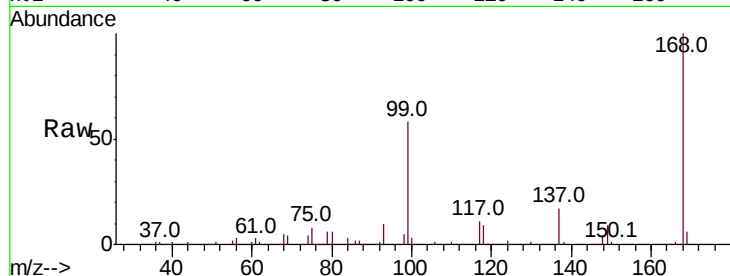




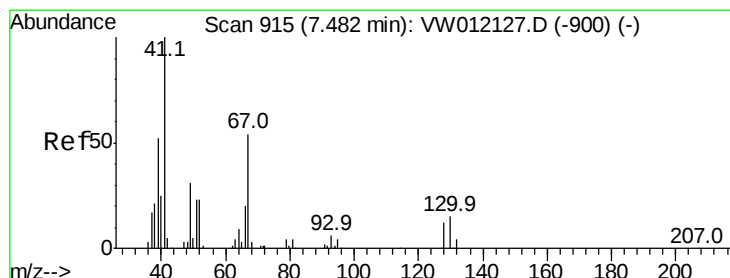
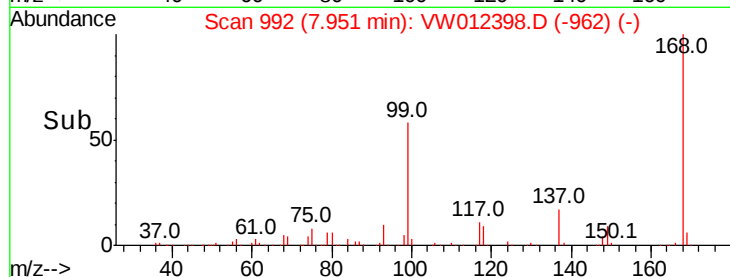
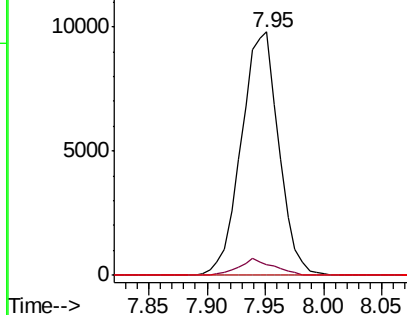
#38
Carbon Tetrachloride
Concen: 6.872 ug/l
RT: 7.95 min Scan# 992
Delta R.T. -0.12 min
Lab File: VW012398.D
Acq: 31 Aug 2019 14:18

Instrument :
MSVOA_W
ClientSampleId :

Tot Ion:117 Resp: 22006
Ion Ratio Lower Upper
117 100
119 4.4 76.2 114.2#
121 0.0 23.8 35.8#

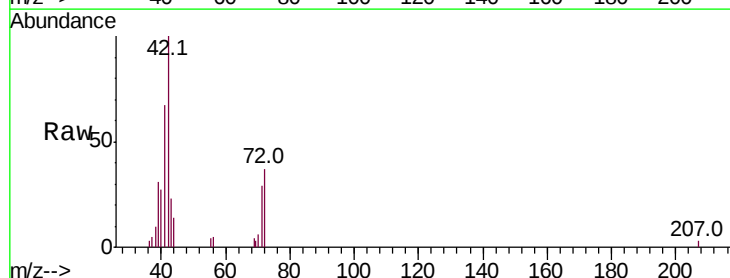


Abundance Ion 116.80 (116.50 to 117.50): V
Ion 118.80 (118.50 to 119.50): V
Ion 120.80 (120.50 to 121.50): V

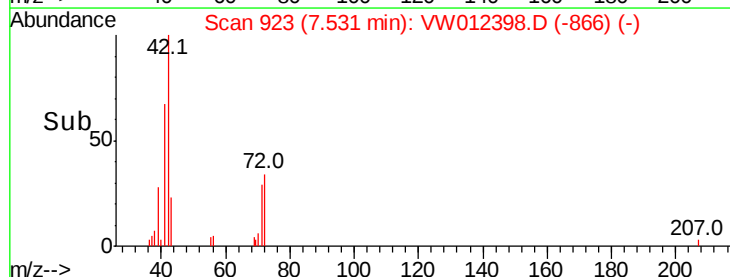
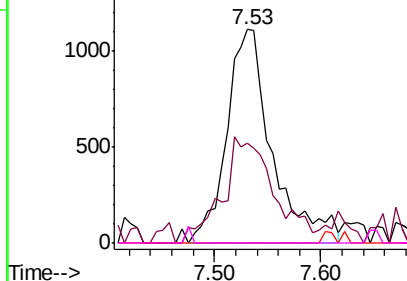


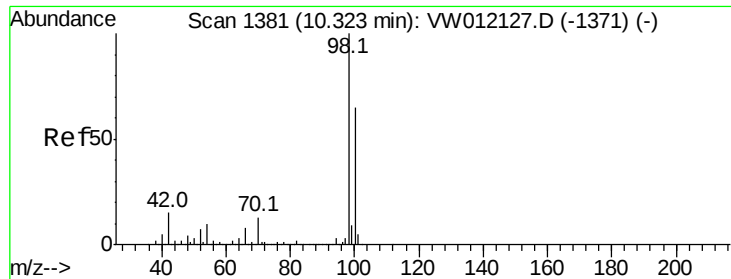
#41
Methacrylonitrile
Concen: 2.784 ug/l
RT: 7.53 min Scan# 923
Delta R.T. 0.05 min
Lab File: VW012398.D
Acq: 31 Aug 2019 14:18

Tgt Ion: 41 Resp: 3317
Ion Ratio Lower Upper
41 100
39 56.4 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

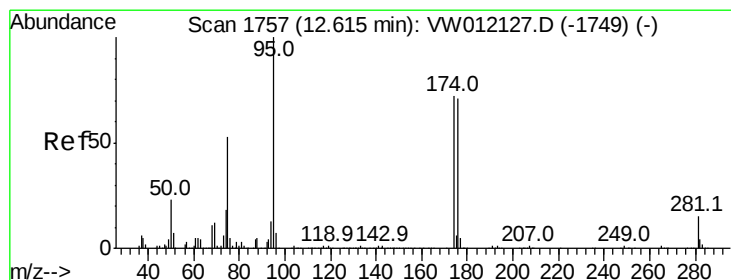
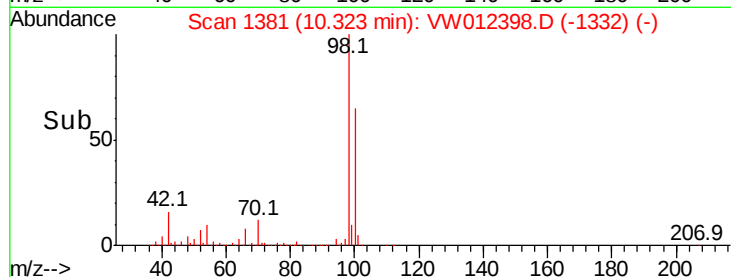
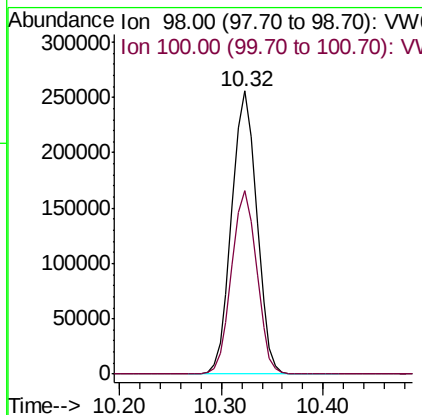
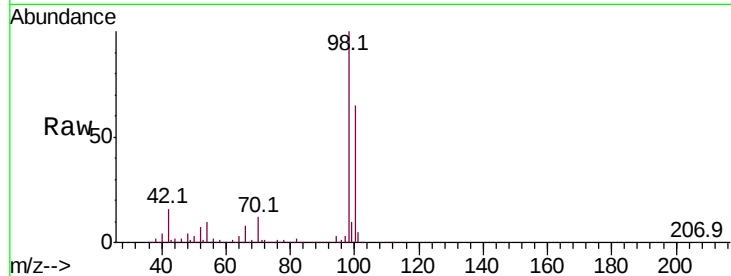




#50
Toluene-d8
Concen: 50.404 ug/l
RT: 10.32 min Scan# 1381
Delta R.T. -0.00 min
Lab File: VW012398.D
Acq: 31 Aug 2019 14:18

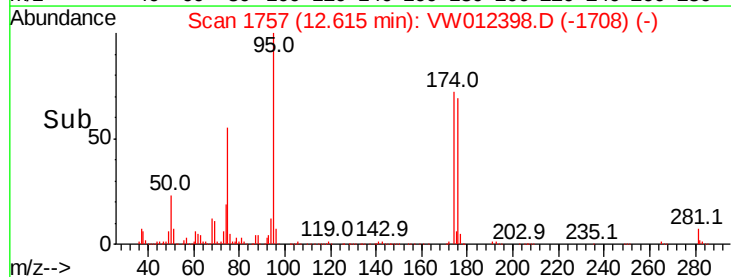
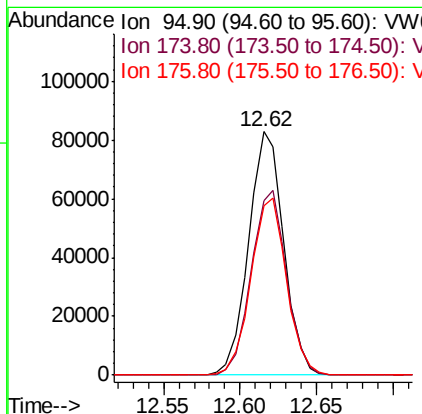
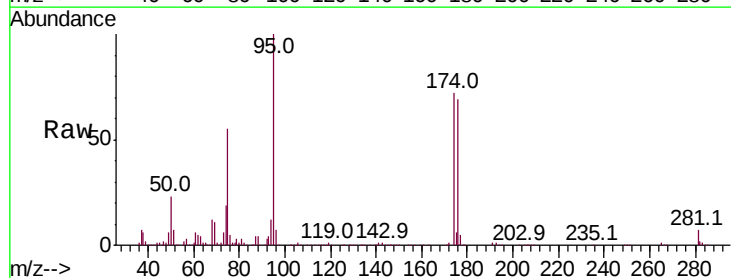
Instrument :
MSVOA_W
ClientSampled :

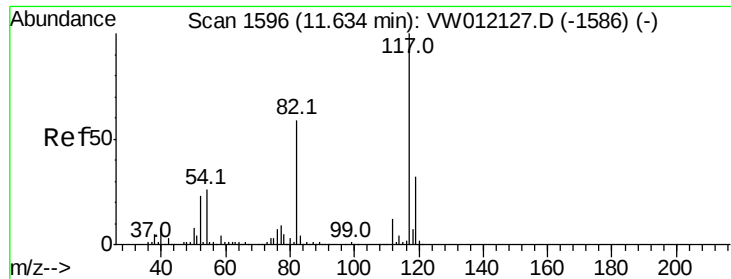
Tot Ion: 98 Resp: 436752
Ion Ratio Lower Upper
98 100
100 64.8 52.4 78.6



#62
4-Bromofluorobenzene
Concen: 43.269 ug/l
RT: 12.62 min Scan# 1757
Delta R.T. -0.00 min
Lab File: VW012398.D
Acq: 31 Aug 2019 14:18

Tgt Ion: 95 Resp: 132159
Ion Ratio Lower Upper
95 100
174 76.6 0.0 150.8
176 73.9 0.0 148.6

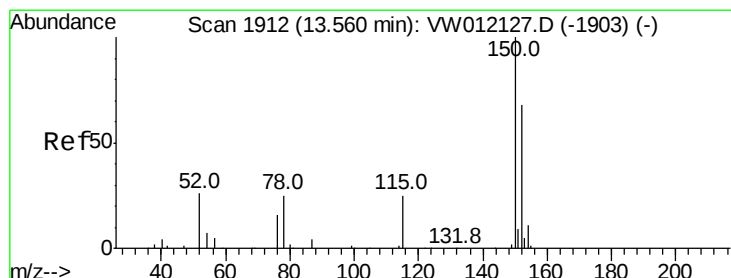
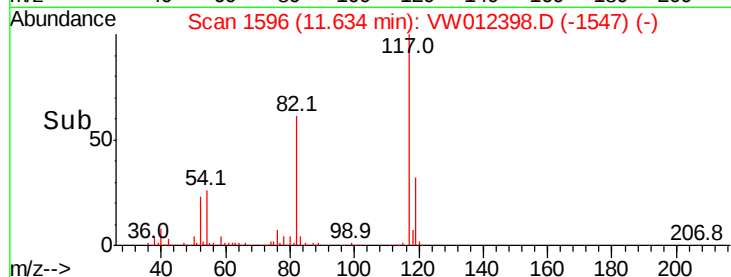
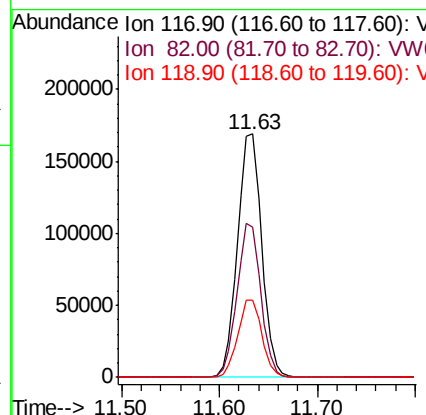
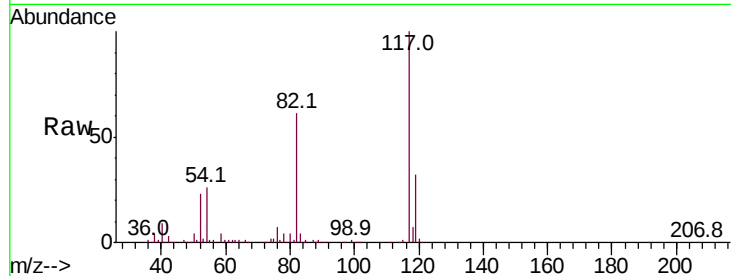




#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.63 min Scan# 1596
Delta R.T. -0.00 min
Lab File: VW012398.D
Acq: 31 Aug 2019 14:18

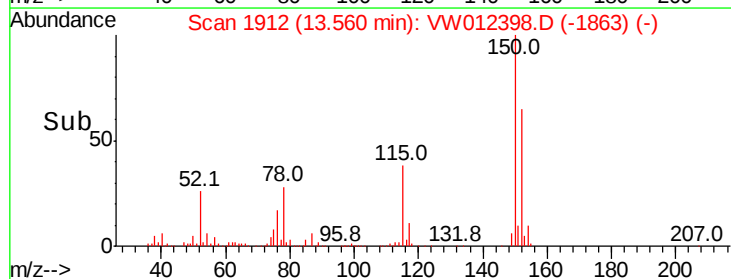
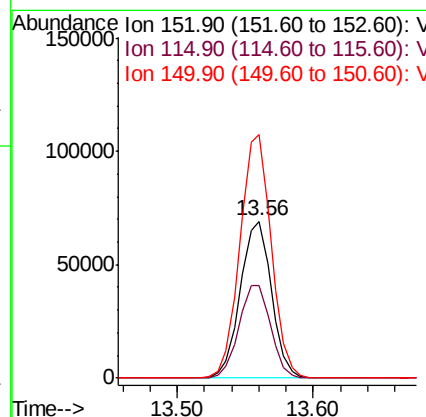
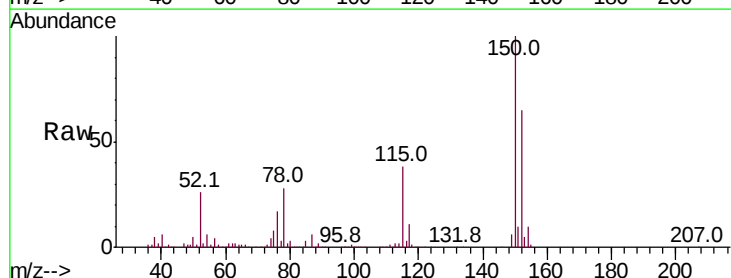
Instrument :
MSVOA_W
ClientSampleId :

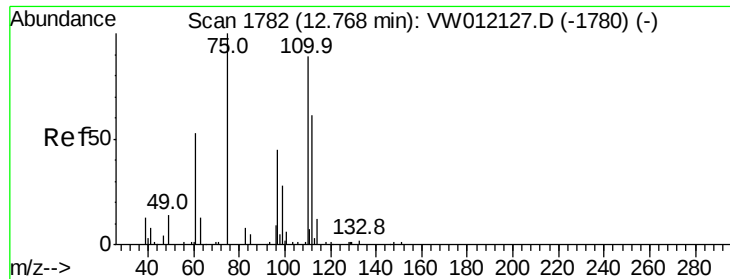
Tot Ion	Ratio	Lower	Upper
117	100		
82	61.4	47.4	71.2
119	31.9	25.4	38.2



#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 13.56 min Scan# 1912
Delta R.T. -0.00 min
Lab File: VW012398.D
Acq: 31 Aug 2019 14:18

Tgt Ion	Ratio	Lower	Upper
152	100		
115	60.2	30.1	90.3
150	156.1	0.0	345.8





#76

1,2,3-Trichloropropane

Concen: 67.271 ug/l

RT: 12.62 min Scan# 1757

Delta R.T. -0.15 min

Lab File: VW012398.D

Acq: 31 Aug 2019 14:18

Instrument :

MSVOA_W

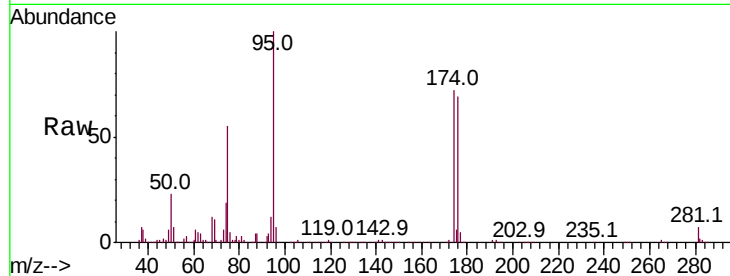
ClientSampled :

Tot Ion: 75 Resp: 72297

Ion Ratio Lower Upper

75 100

77 1.6 0.0 0.0#



Abundance Ion 74.90 (74.60 to 75.60): VW

Ion 77.00 (76.70 to 77.70): VW

12.62

50000

40000

30000

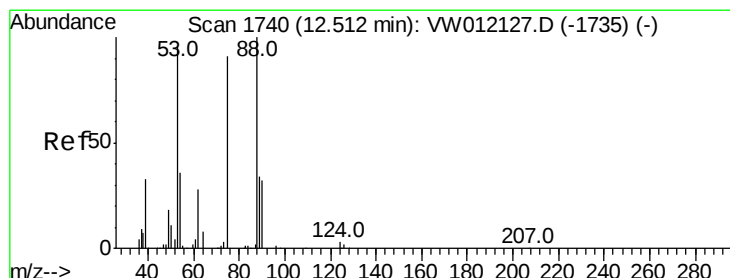
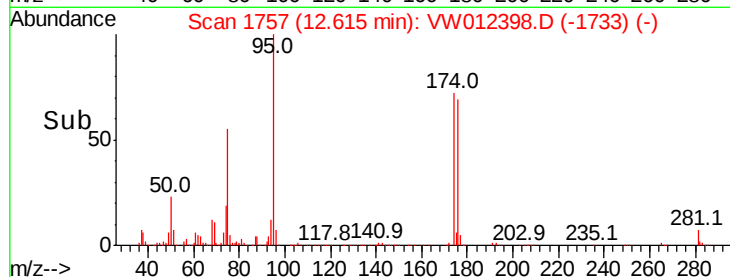
20000

10000

0

Time-->

12.55 12.60 12.65 12.70



#81

trans-1,4-Dichloro-2-butene

Concen: 147.493 ug/l

RT: 12.62 min Scan# 1757

Delta R.T. 0.10 min

Lab File: VW012398.D

Acq: 31 Aug 2019 14:18

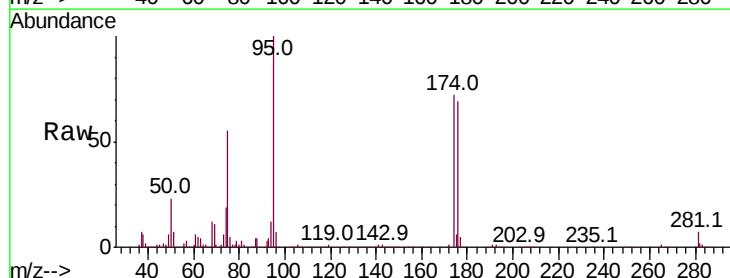
Tgt Ion: 75 Resp: 72297

Ion Ratio Lower Upper

75 100

53 0.2 89.4 134.0#

89 0.1 34.5 51.7#



Abundance Ion 74.90 (74.60 to 75.60): VW

Ion 53.00 (52.70 to 53.70): VW

Ion 88.90 (88.60 to 89.60): VW

60000

50000

40000

30000

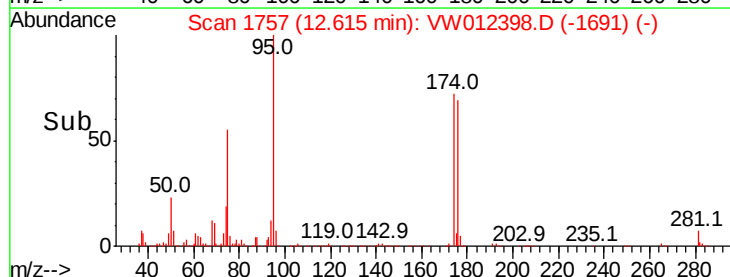
20000

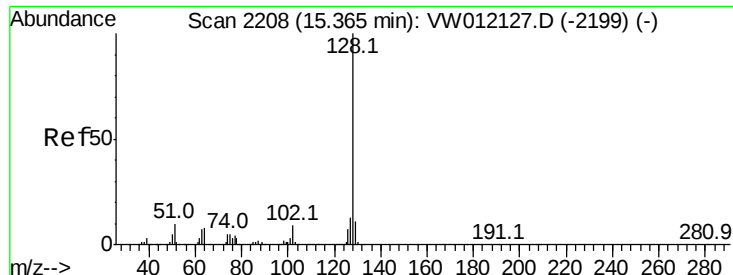
10000

0

Time-->

12.55 12.60 12.65 12.70





#95

Naphthalene

Concen: 4.359 ug/l

RT: 15.37 min Scan# 2209

Delta R.T. 0.01 min

Lab File: VW012398.D

Acq: 31 Aug 2019 14:18

Instrument :

MSVOA_W

ClientSampleId :

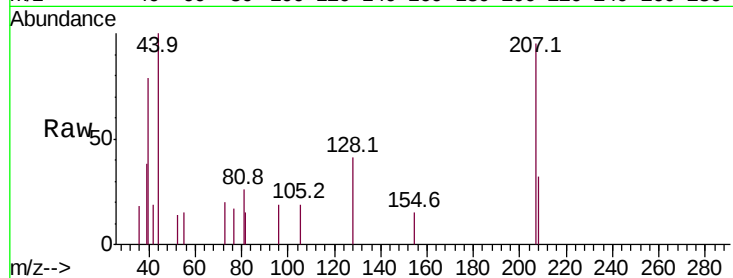
Tot Ion:128 Resp: 175

Ion Ratio Lower Upper

128 100

127 0.0 10.7 16.1#

129 0.0 8.7 13.1#

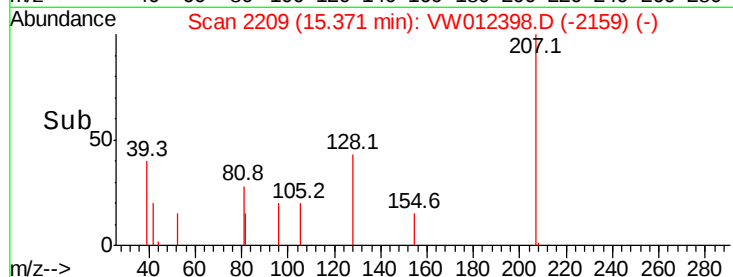


Abundance Ion 128.00 (127.70 to 128.70): V

Ion 127.00 (126.70 to 127.70): V

Ion 129.00 (128.70 to 129.70): V

15.37



Time--> 15.32 15.34 15.36 15.38