

Data Path : Z:\VOASRV\HPCHEM1\MSVOA W\DATA\VW083019\
 Data File : VW012346.D
 Acq On : 30 Aug 2019 12:26
 Operator : SY/VA
 Sample : K4620-01
 Misc : 6.26G/5ML/MSVOA W/SOIL
 ALS Vial : 8 Sample Multiplier: 1

Instrument :
 MSVOA_W
 ClientSampleId :

Quant Time: Aug 30 15:51:24 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	196761	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	8.84	114	325251	50.00	ug/l	0.00
63) Chlorobenzene-d5	11.63	117	275113	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.56	152	118072	50.00	ug/l	0.00

System Monitoring Compounds

33) 1,2-Dichloroethane-d4	8.30	65	132799	56.78	ug/l	0.00
Spiked Amount	50.000		Recovery	=	113.56%	
35) Dibromofluoromethane	7.88	113	100668	51.85	ug/l	0.00
Spiked Amount	50.000		Recovery	=	103.70%	
50) Toluene-d8	10.32	98	397765	50.53	ug/l	0.00
Spiked Amount	50.000		Recovery	=	101.06%	
62) 4-Bromofluorobenzene	12.62	95	133029	47.94	ug/l	0.00
Spiked Amount	50.000		Recovery	=	95.88%	

Target Compounds

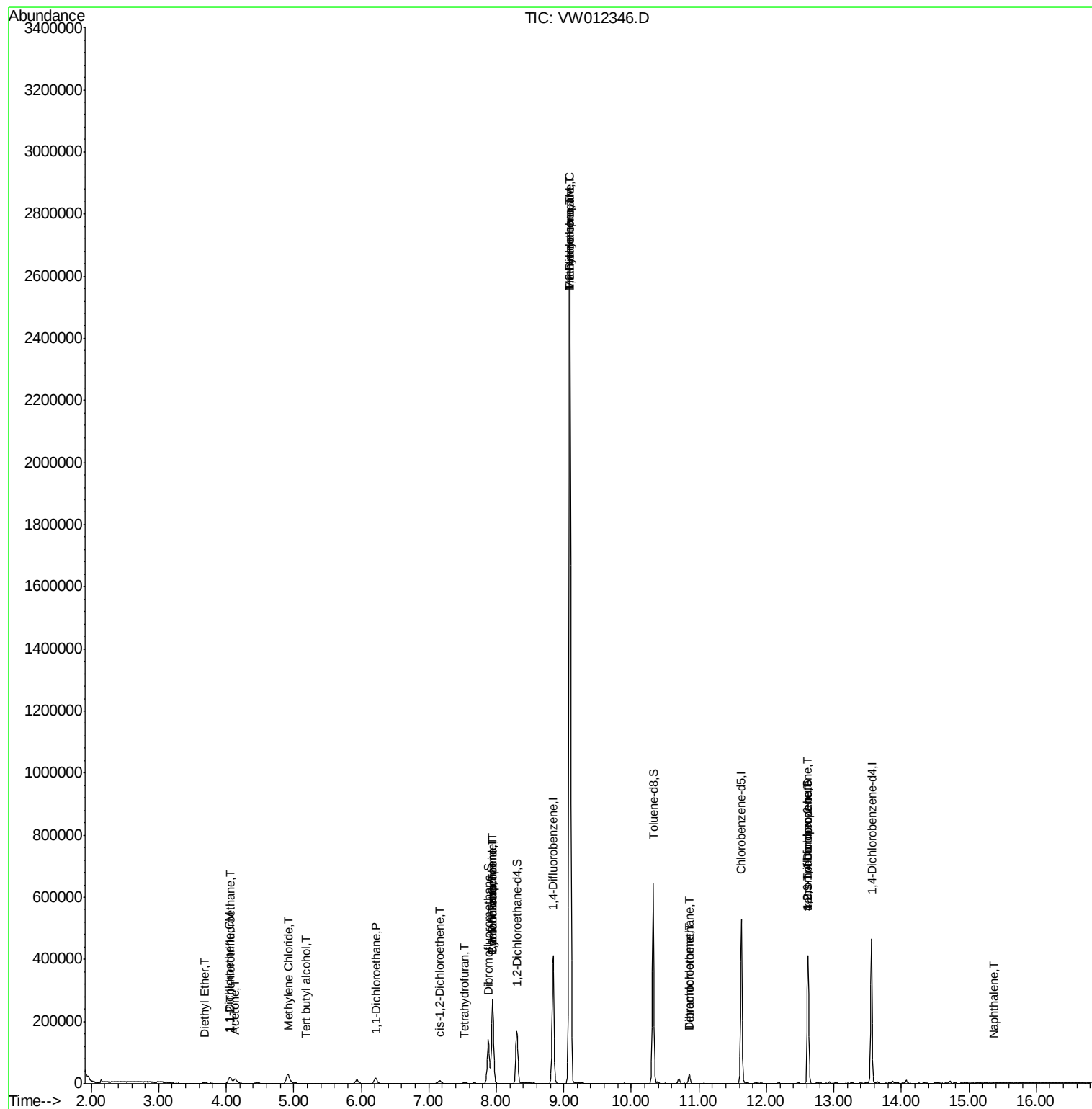
					Qvalue	
8) Diethyl Ether	3.68	74	1611	1.471	ug/l	59
9) 1,1,2-Trichlorotrifluoroet	4.06	101	11460	5.844	ug/l	96
11) Tert butyl alcohol	5.18	59	431	3.062	ug/l #	71
12) 1,1-Dichloroethene	4.04	96	3859	1.955	ug/l	99
16) Acetone	4.14	43	26052	43.573	ug/l	100
20) Methylene Chloride	4.92	84	22815	10.094	ug/l	98
24) 1,1-Dichloroethane	6.21	63	23304	5.473	ug/l	99
27) cis-1,2-Dichloroethene	7.17	96	3334	1.474	ug/l	91
29) Tetrahydrofuran	7.53	42	2678	5.494	ug/l	93
31) Cyclohexane	7.95	56	4971	1.180	ug/l #	1
36) 1,1-Dichloropropene	7.94	75	16378	4.873	ug/l #	51
38) Carbon Tetrachloride	7.95	117	19766	6.795	ug/l #	18
39) Methylcyclohexane	9.09	83	12059	3.194	ug/l #	1
44) Trichloroethene	9.09	130	956487	428.713	ug/l	97
45) 1,2-Dichloropropane	9.09	63	2586	1.047	ug/l #	1
60) Dibromochloromethane	10.86	129	5364	3.097	ug/l #	11
64) Tetrachloroethene	10.86	164	6474	3.630	ug/l	94
76) 1,2,3-Trichloropropane	12.62	75	72501	63.048	ug/l #	100
81) trans-1,4-Dichloro-2-buten	12.62	75	72501	138.235	ug/l #	6
95) Naphthalene	15.36	128	832	4.492	ug/l	96

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

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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: VW012346.D

Acq: 30 Aug 2019 12:26

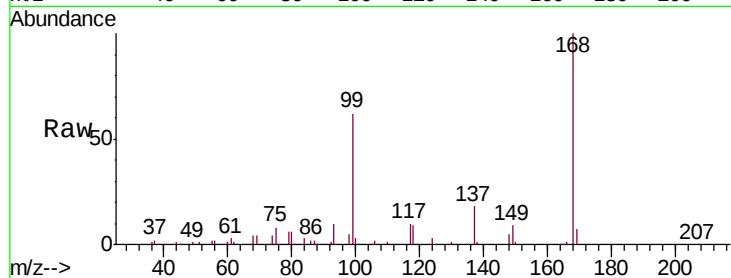
Instrument :
MSVOA_W
ClientSampleId :

Tot Ion:168 Resp: 196761

Ion Ratio Lower Upper

168 100

99 61.7 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

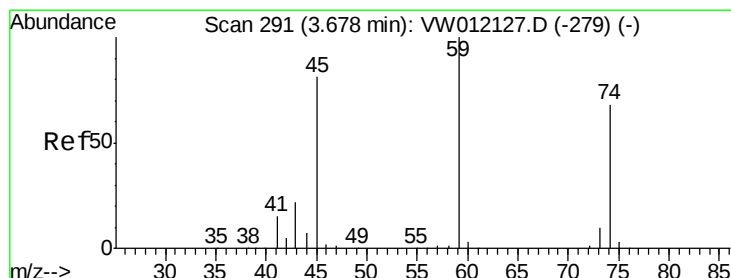
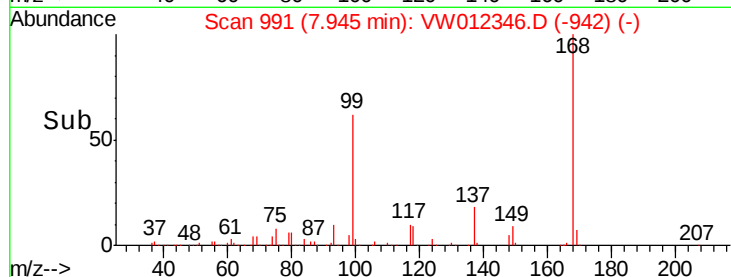
40000

20000

0

Time-->

7.90 8.00



#8

Diethyl Ether

Concen: 1.471 ug/l

RT: 3.68 min Scan# 291

Delta R.T. -0.00 min

Lab File: VW012346.D

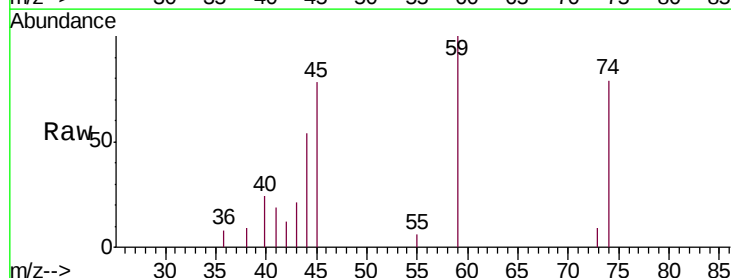
Acq: 30 Aug 2019 12:26

Tgt Ion: 74 Resp: 1611

Ion Ratio Lower Upper

74 100

45 163.4 59.2 177.6



Abundance Ion 74.00 (73.70 to 74.70): VW

Ion 45.00 (44.70 to 45.70): VW

3.68

1000

800

600

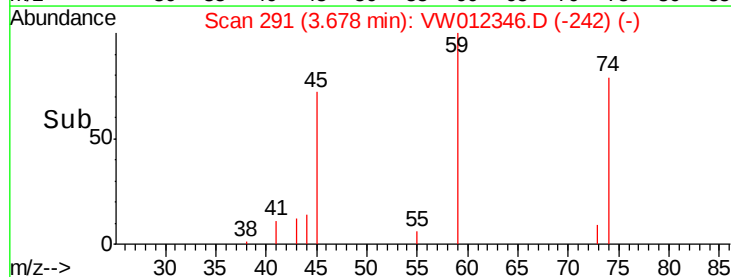
400

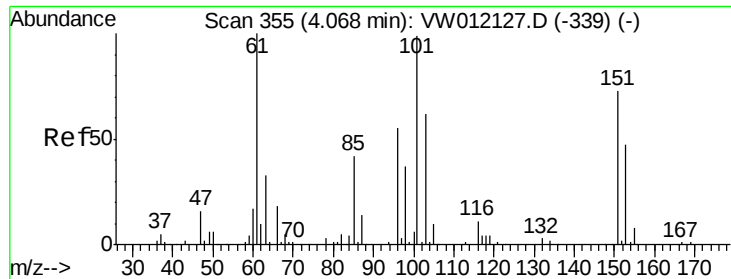
200

0

Time-->

3.60 3.65 3.70 3.75





#9

1,1,2-Trichlorotrifluoroethane

Concen: 5.844 ug/l

RT: 4.06 min Scan# 354

Delta R.T. -0.01 min

Lab File: VW012346.D

Acq: 30 Aug 2019 12:26

Instrument :

MSVOA_W

ClientSampled :

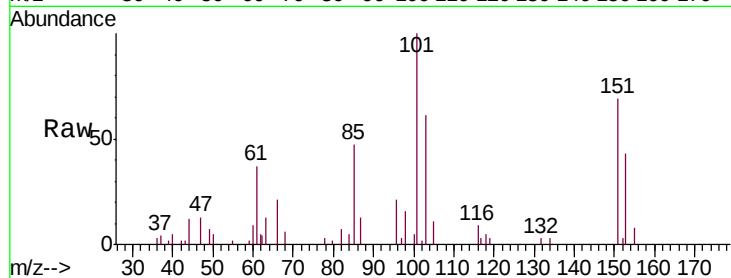
Tot Ion:101 Resp: 11460

Ion Ratio Lower Upper

101 100

85 46.6 35.8 53.6

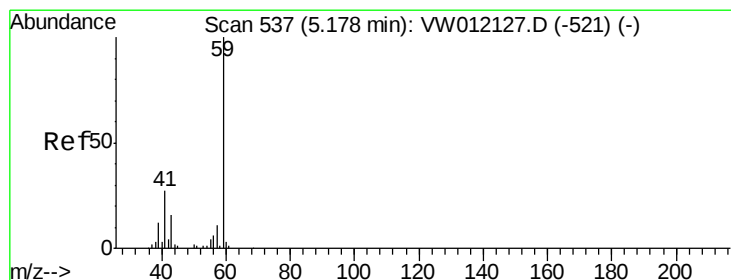
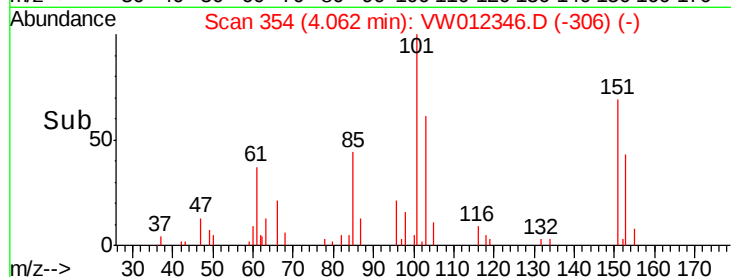
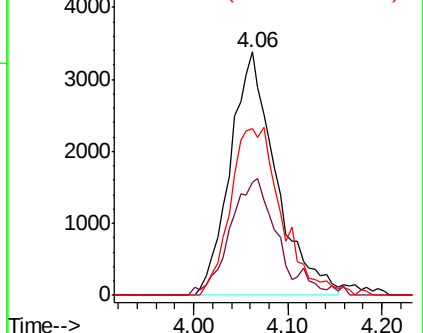
151 77.1 58.6 87.8



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: 3.062 ug/l

RT: 5.18 min Scan# 538

Delta R.T. 0.01 min

Lab File: VW012346.D

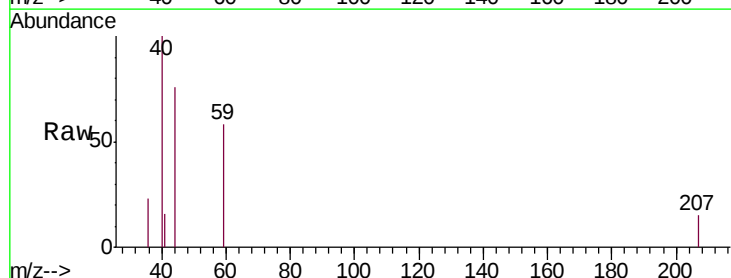
Acq: 30 Aug 2019 12:26

Tgt Ion: 59 Resp: 431

Ion Ratio Lower Upper

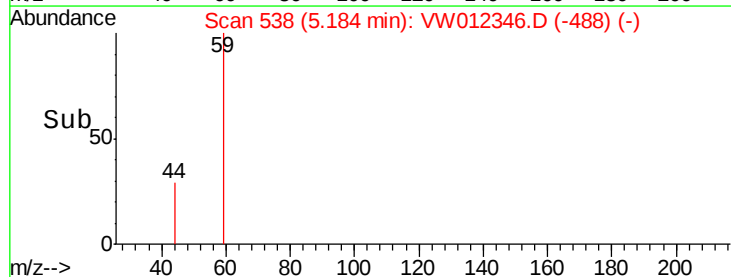
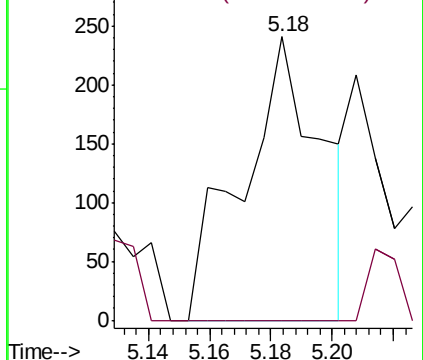
59 100

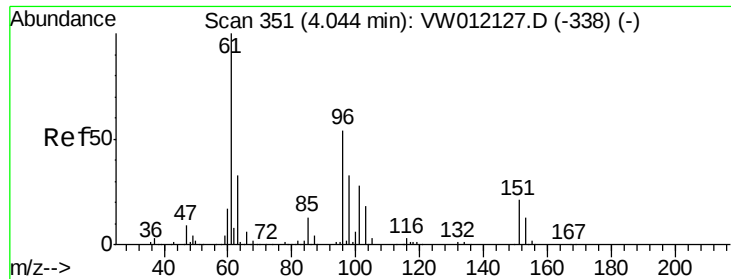
57 0.0 9.0 13.4#



Abundance Ion 59.00 (58.70 to 59.70): VW

Ion 57.00 (56.70 to 57.70): VW





#12

1,1-Dichloroethene

Concen: 1.955 ug/l

RT: 4.04 min Scan# 351

Delta R.T. -0.00 min

Lab File: VW012346.D

Acq: 30 Aug 2019 12:26

Instrument :

MSVOA_W

ClientSampled :

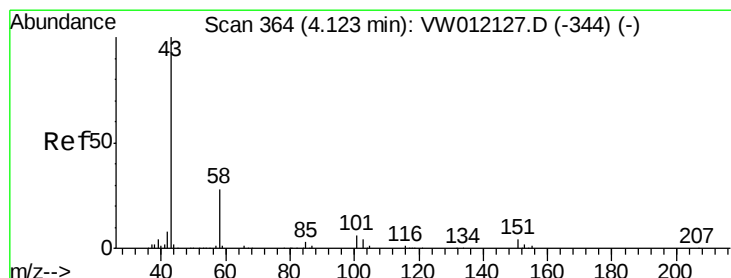
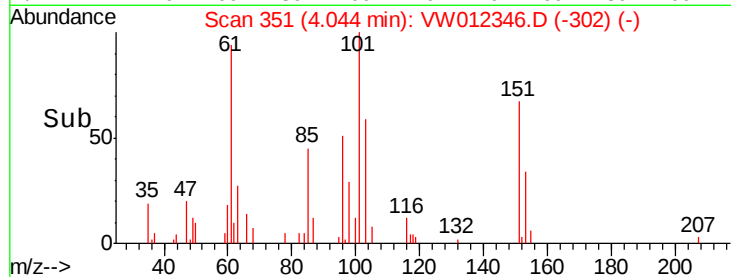
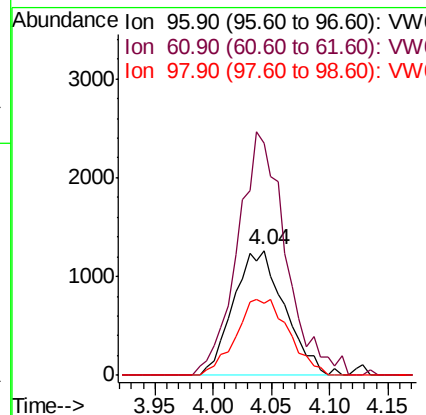
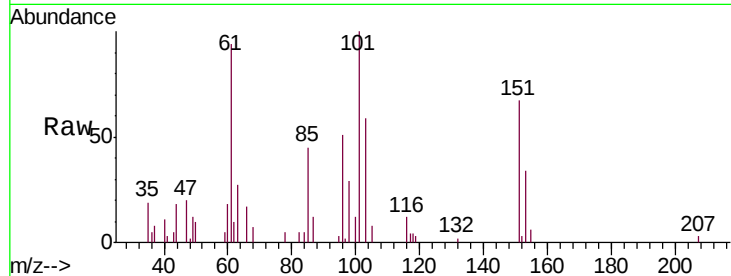
Tot Ion: 96 Resp: 3859

Ion Ratio Lower Upper

96 100

61 186.0 149.1 223.7

98 57.9 49.4 74.2



#16

Acetone

Concen: 43.573 ug/l

RT: 4.14 min Scan# 366

Delta R.T. 0.01 min

Lab File: VW012346.D

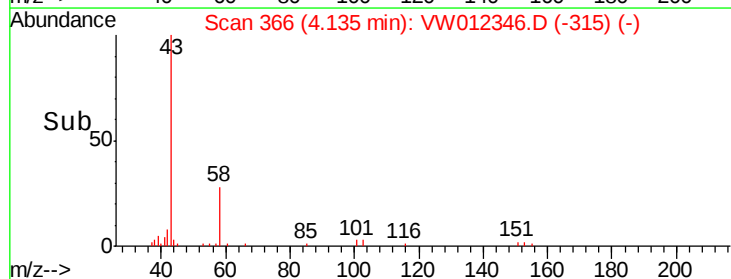
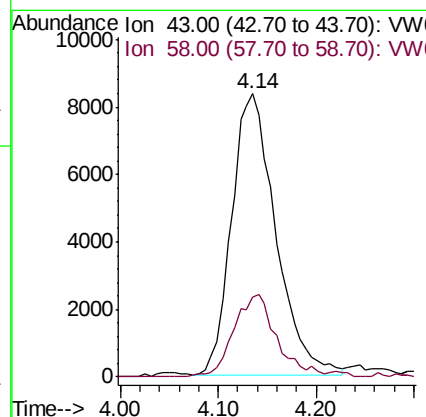
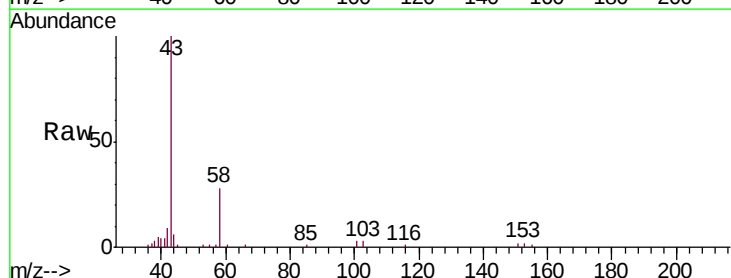
Acq: 30 Aug 2019 12:26

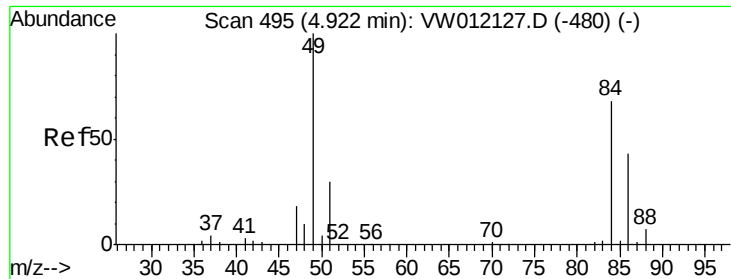
Tgt Ion: 43 Resp: 26052

Ion Ratio Lower Upper

43 100

58 27.9 22.4 33.6

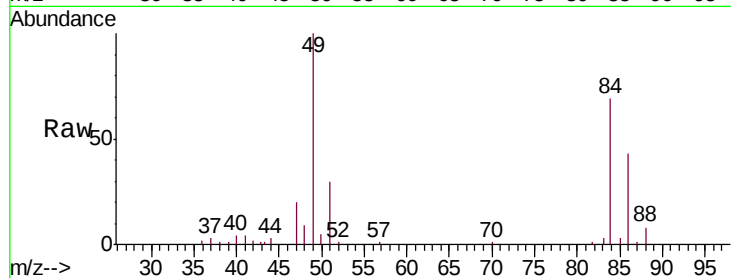




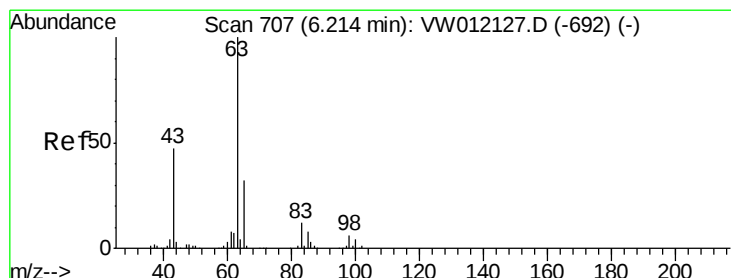
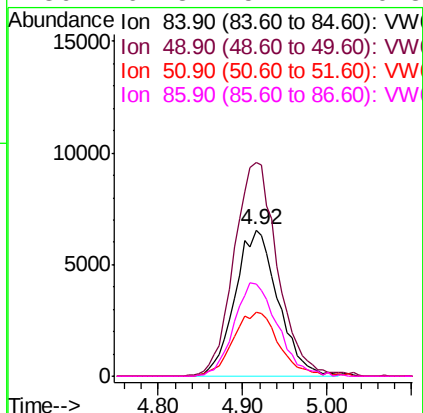
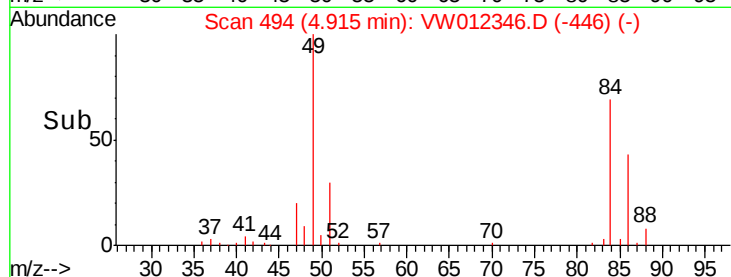
#20
Methvlene Chloride
Concen: 10.094 ug/l
RT: 4.92 min Scan# 494
Delta R.T. -0.01 min
Lab File: VW012346.D
Acq: 30 Aug 2019 12:26

Instrument :
MSVOA_W
ClientSampled :

Tot Ion: 84 Resp: 22815
Ion Ratio Lower Upper
84 100
49 144.8 117.8 176.8
51 43.9 35.6 53.4
86 62.8 51.2 76.8

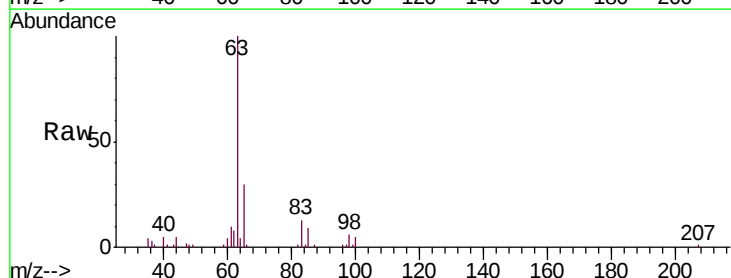


Abundance Ion 83.90 (83.60 to 84.60): VW
Ion 48.90 (48.60 to 49.60): VW
Ion 50.90 (50.60 to 51.60): VW
Ion 85.90 (85.60 to 86.60): VW

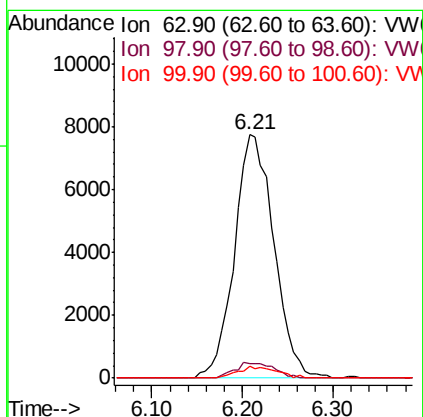
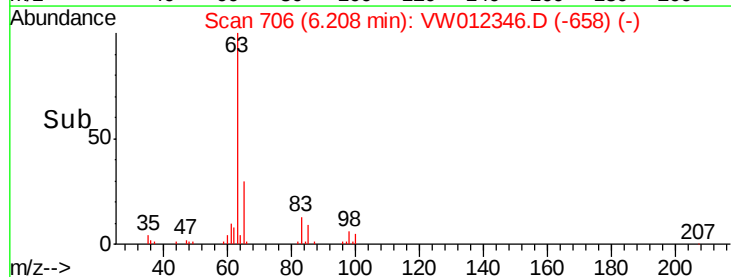


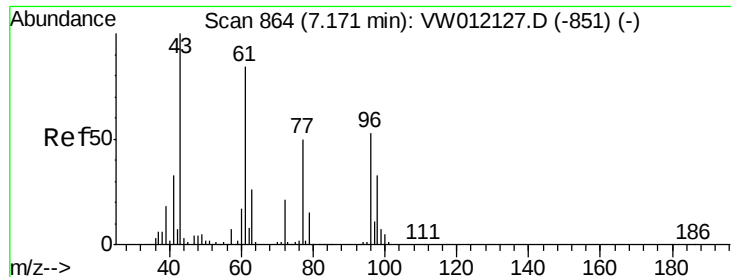
#24
1,1-Dichloroethane
Concen: 5.473 ug/l
RT: 6.21 min Scan# 706
Delta R.T. -0.01 min
Lab File: VW012346.D
Acq: 30 Aug 2019 12:26

Tgt Ion: 63 Resp: 23304
Ion Ratio Lower Upper
63 100
98 5.9 3.0 9.2
100 4.7 2.0 6.0



Abundance Ion 62.90 (62.60 to 63.60): VW
Ion 97.90 (97.60 to 98.60): VW
Ion 99.90 (99.60 to 100.60): VW



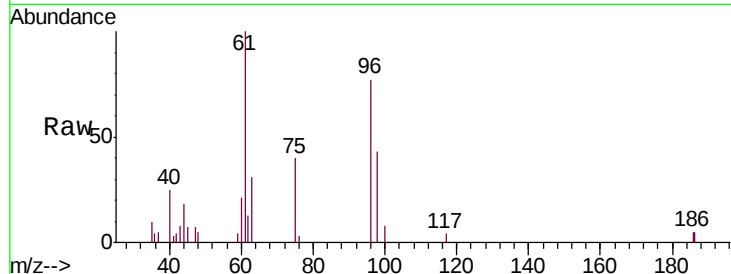


#27

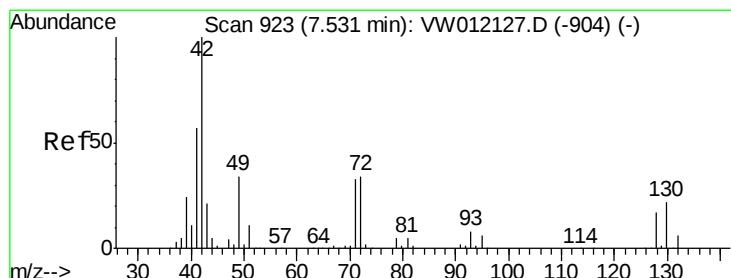
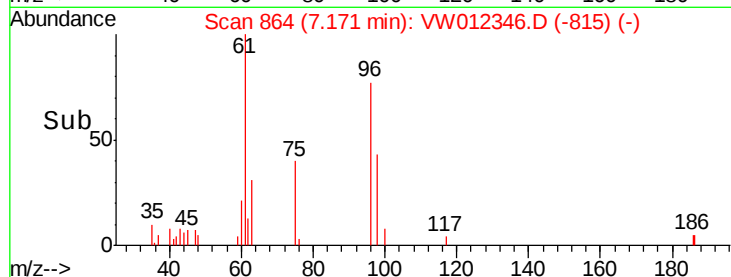
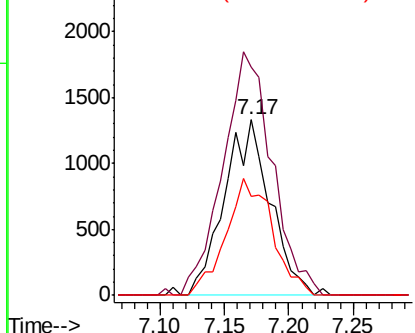
cis-1,2-Dichloroethene
 Concen: 1.474 ug/l
 RT: 7.17 min Scan# 864
 Delta R.T. -0.00 min
 Lab File: VW012346.D
 Acq: 30 Aug 2019 12:26

Instrument :
 MSVOA_W
 ClientSampled :

Tot Ion: 96 Resp: 3334
 Ion Ratio Lower Upper
 96 100
 61 148.3 0.0 326.6
 98 66.4 0.0 127.4



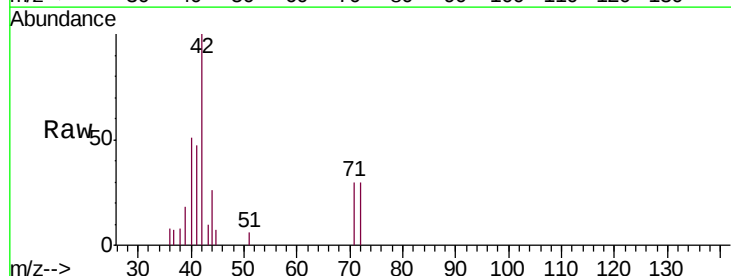
Abundance Ion 95.90 (95.60 to 96.60): VW
 Ion 60.90 (60.60 to 61.60): VW
 Ion 97.90 (97.60 to 98.60): VW



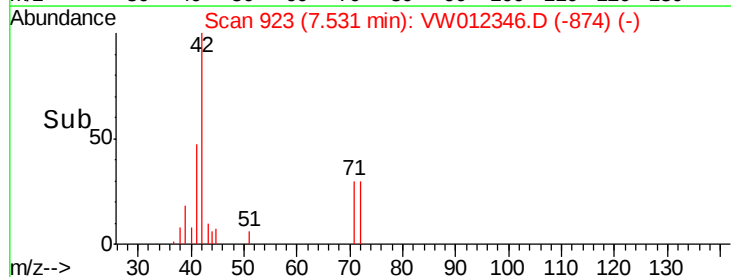
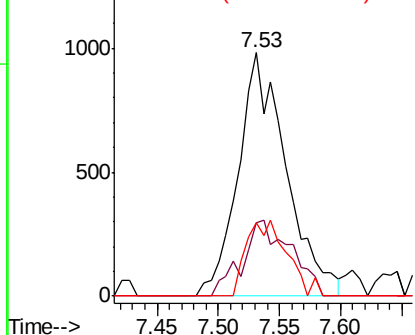
#29

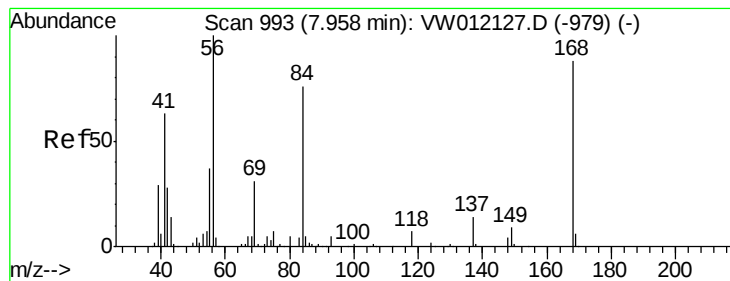
Tetrahydrofuran
 Concen: 5.494 ug/l
 RT: 7.53 min Scan# 923
 Delta R.T. -0.00 min
 Lab File: VW012346.D
 Acq: 30 Aug 2019 12:26

Tgt Ion: 42 Resp: 2678
 Ion Ratio Lower Upper
 42 100
 72 31.6 27.3 40.9
 71 26.4 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: 1.180 ug/l

RT: 7.95 min Scan# 991

Delta R.T. -0.01 min

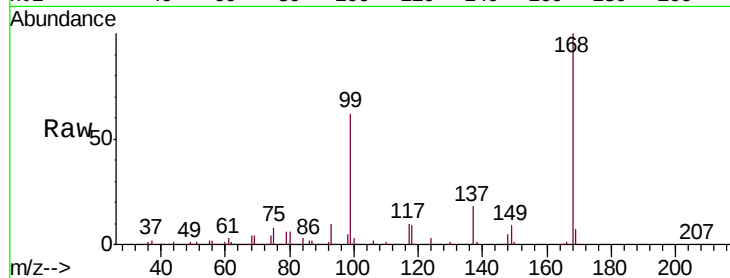
Lab File: VW012346.D

Acq: 30 Aug 2019 12:26

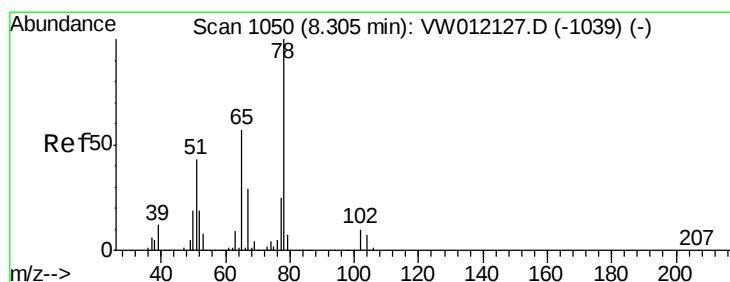
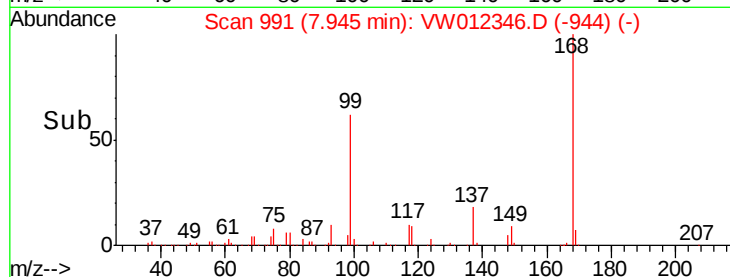
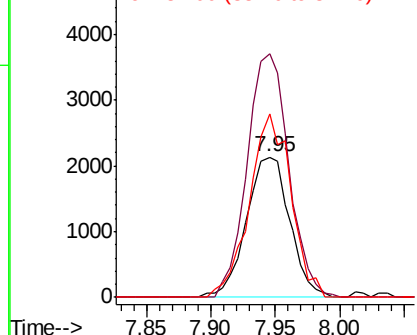
Instrument :
MSVOA_W
ClientSampled :

Tot Ion: 56 Resp: 4971

Ion	Ratio	Lower	Upper
56	100		
69	173.9	24.9	37.3#
84	131.3	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: 56.776 ug/l

RT: 8.30 min Scan# 1050

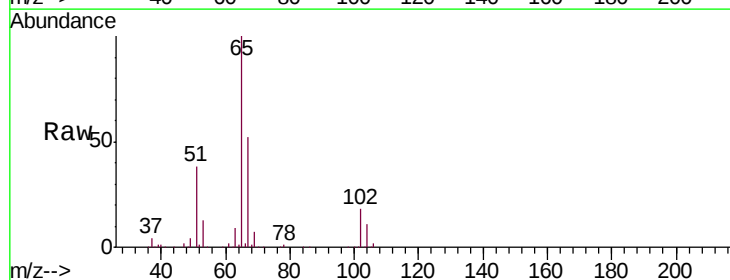
Delta R.T. -0.00 min

Lab File: VW012346.D

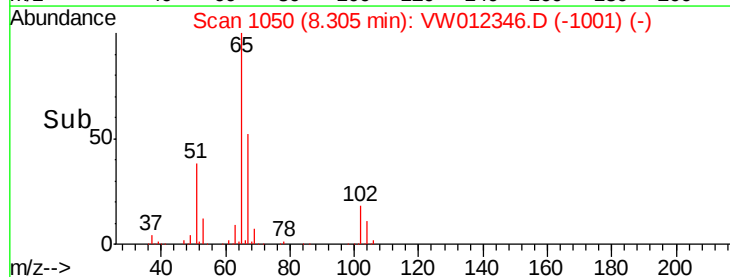
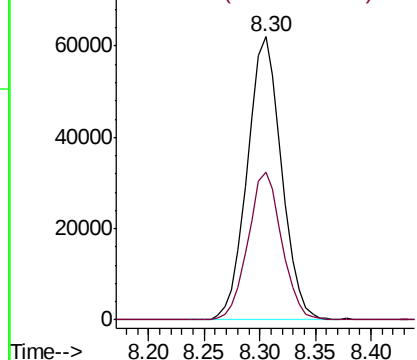
Acq: 30 Aug 2019 12:26

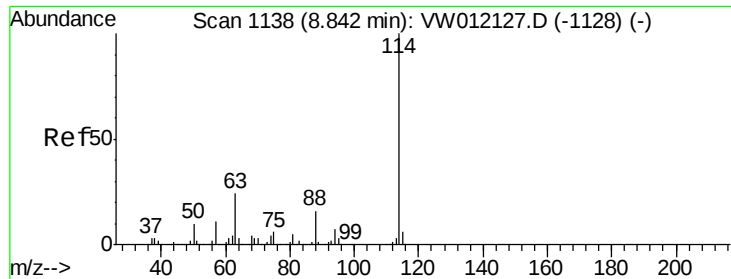
Tgt Ion: 65 Resp: 132799

Ion	Ratio	Lower	Upper
65	100		
67	51.6	0.0	102.6



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

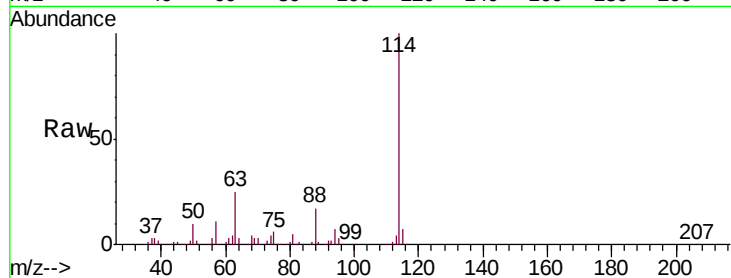




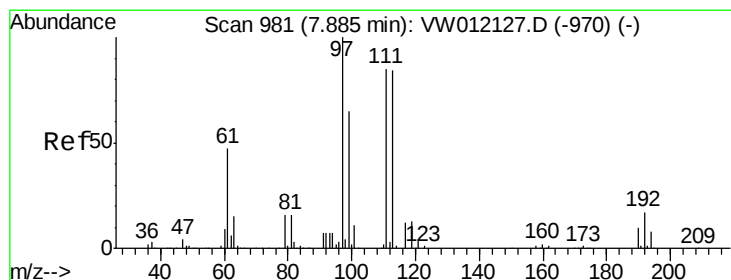
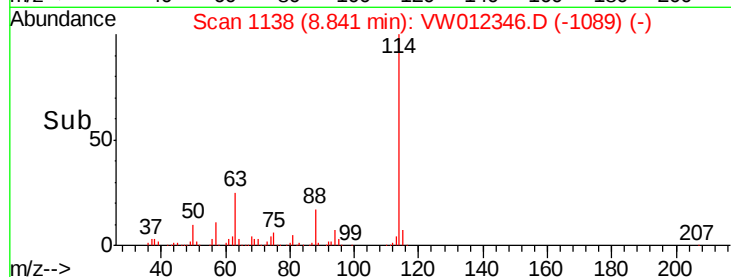
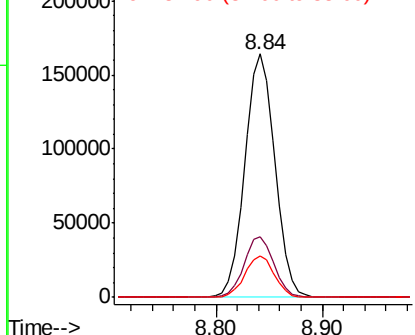
#34
 1,4-Difluorobenzene
 Concen: 50.000 ug/l
 RT: 8.84 min Scan# 1138
 Delta R.T. -0.00 min
 Lab File: VW012346.D
 Acq: 30 Aug 2019 12:26

Instrument :
 MSVOA_W
 ClientSampleId :

Tot Ion:114	Resp:	325251
Ion Ratio	Lower	Upper
114 100		
63 24.9	0.0	48.6
88 17.2	0.0	32.2

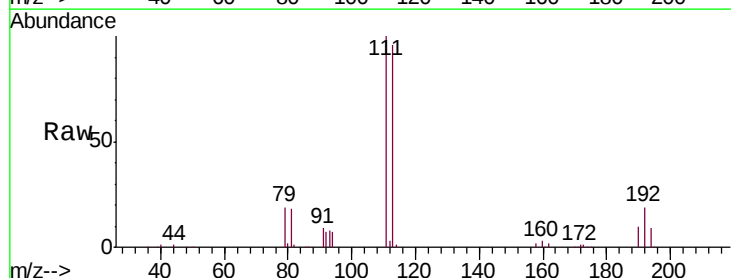


Abundance Ion 113.90 (113.60 to 114.60): V
 Ion 63.00 (62.70 to 63.70): VW
 Ion 87.90 (87.60 to 88.60): VW

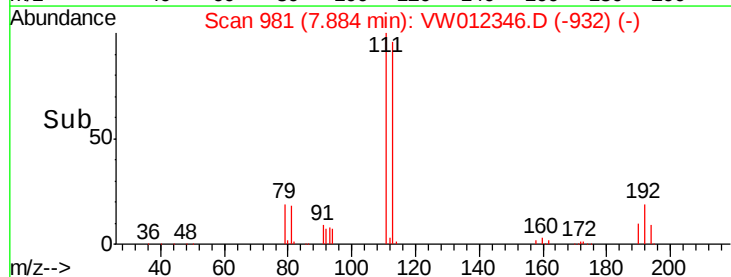
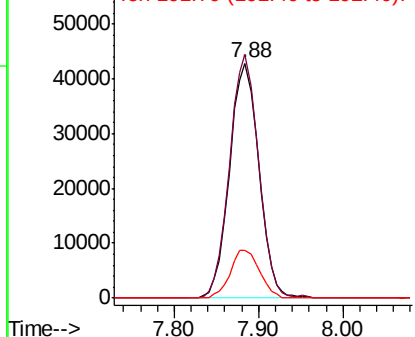


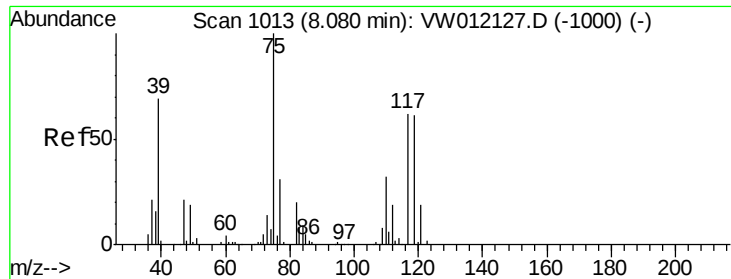
#35
 Dibromofluoromethane
 Concen: 51.852 ug/l
 RT: 7.88 min Scan# 981
 Delta R.T. -0.00 min
 Lab File: VW012346.D
 Acq: 30 Aug 2019 12:26

Tgt Ion:113	Resp:	100668
Ion Ratio	Lower	Upper
113 100		
111 102.7	82.7	124.1
192 20.3	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

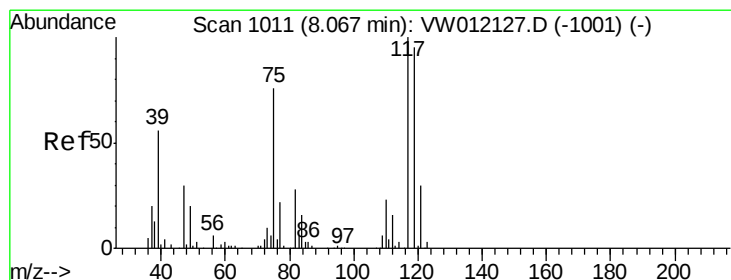
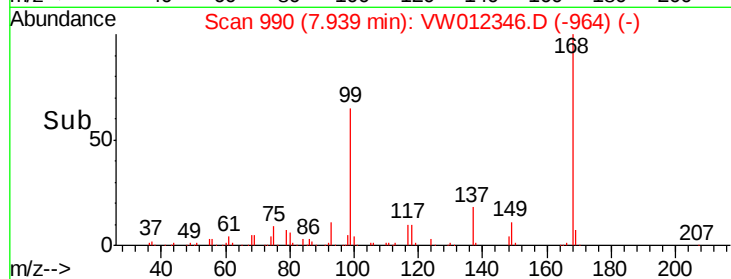
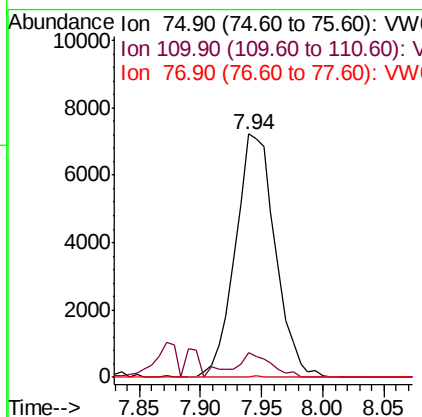
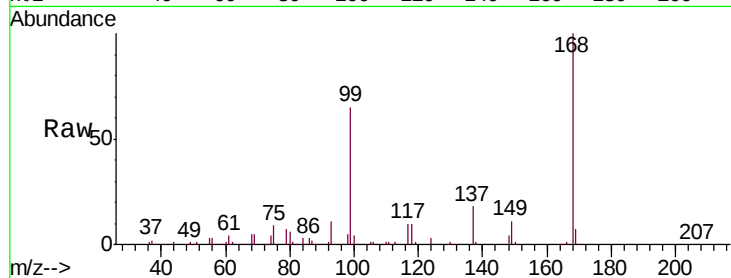




#36
 1,1-Dichloropropene
 Concen: 4.873 ug/l
 RT: 7.94 min Scan# 990
 Delta R.T. -0.14 min
 Lab File: VW012346.D
 Acq: 30 Aug 2019 12:26

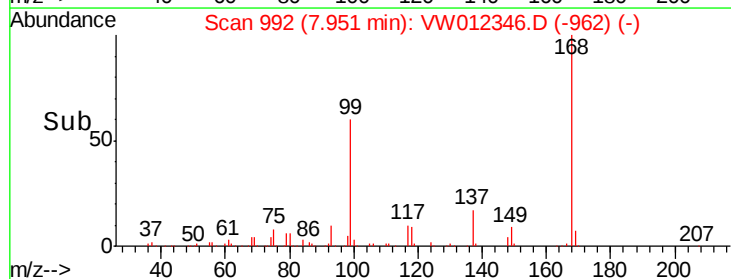
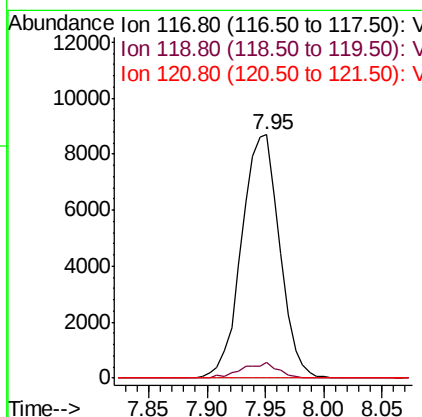
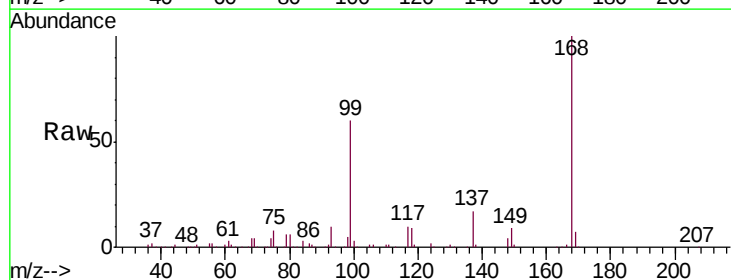
Instrument :
 MSVOA_W
 ClientSampleId :

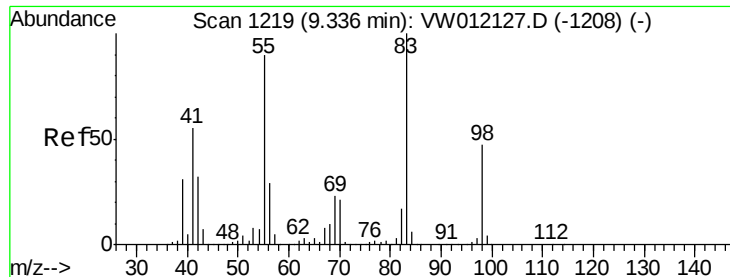
Tot Ion	Ratio	Lower	Upper
75	100		
110	8.3	15.6	46.8#
77	0.1	24.6	36.8#



#38
 Carbon Tetrachloride
 Concen: 6.795 ug/l
 RT: 7.95 min Scan# 992
 Delta R.T. -0.12 min
 Lab File: VW012346.D
 Acq: 30 Aug 2019 12:26

Tgt Ion	Ratio	Lower	Upper
117	100		
119	6.7	76.2	114.2#
121	0.0	23.8	35.8#

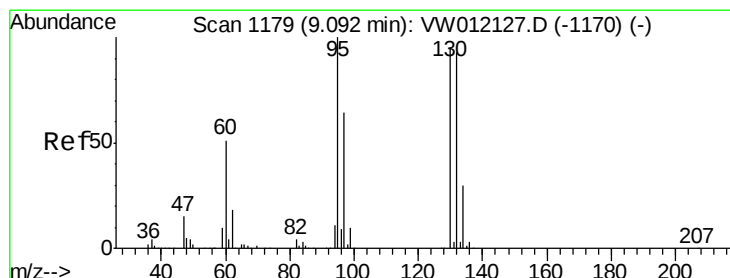
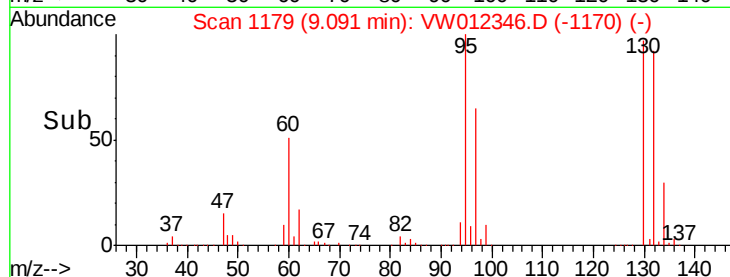
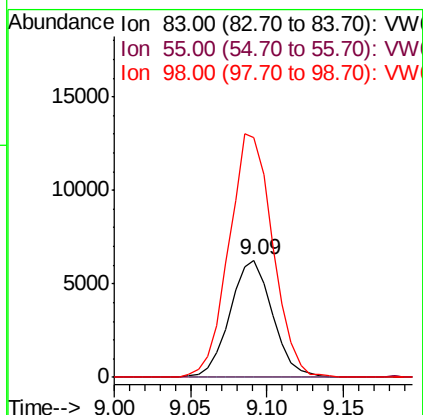
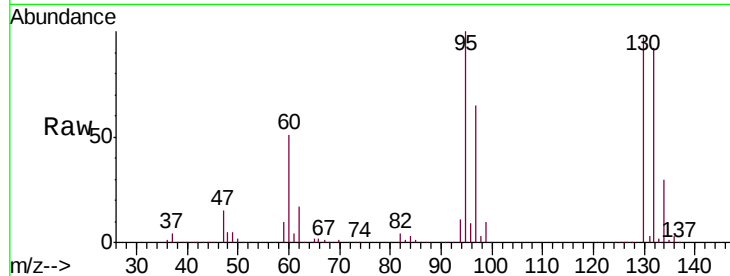




#39
Methylcyclohexane
Concen: 3.194 ug/l
RT: 9.09 min Scan# 1179
Delta R.T. -0.24 min
Lab File: VW012346.D
Acq: 30 Aug 2019 12:26

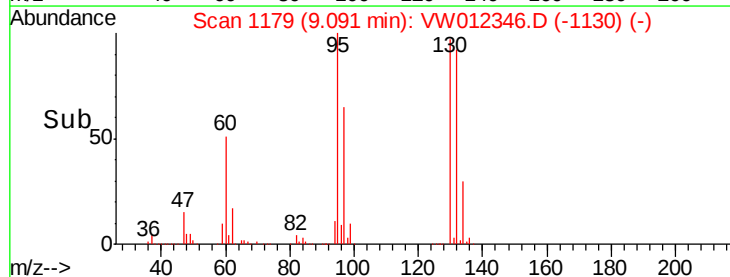
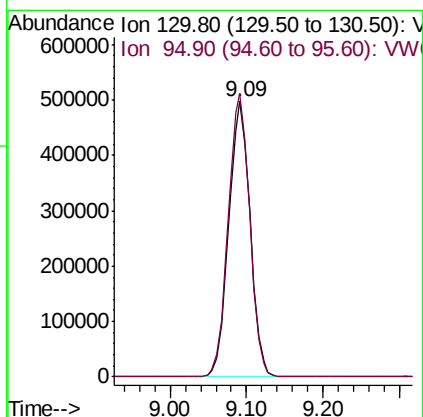
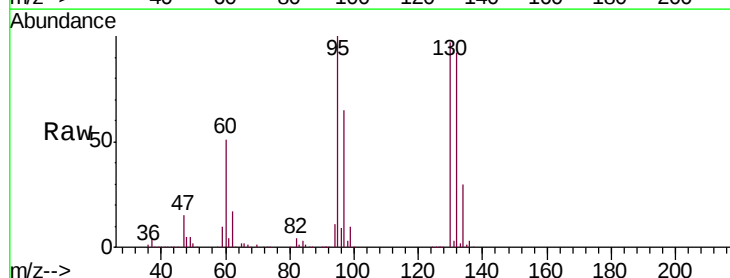
Instrument :
MSVOA_W
ClientSampled :

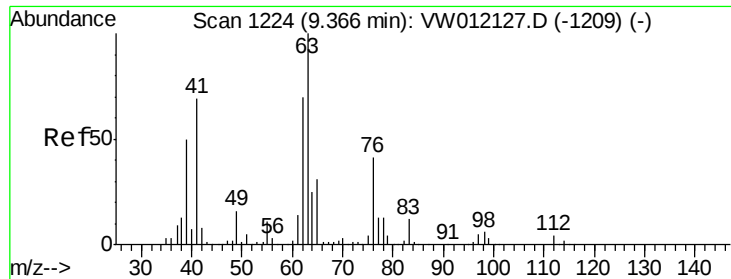
Tot Ion: 83 Resp: 12059
Ion Ratio Lower Upper
83 100
55 0.0 71.8 107.8#
98 205.1 37.8 56.8#



#44
Trichloroethene
Concen: 428.713 ug/l
RT: 9.09 min Scan# 1179
Delta R.T. -0.00 min
Lab File: VW012346.D
Acq: 30 Aug 2019 12:26

Tgt Ion:130 Resp: 956487
Ion Ratio Lower Upper
130 100
95 102.7 0.0 210.6

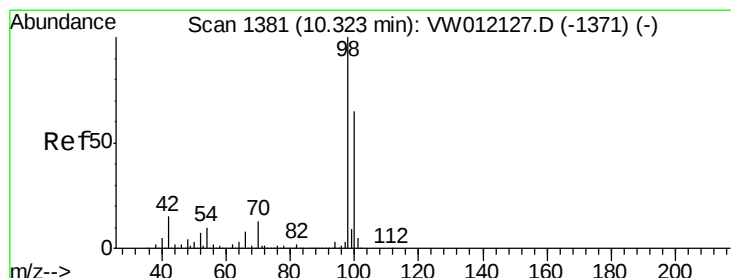
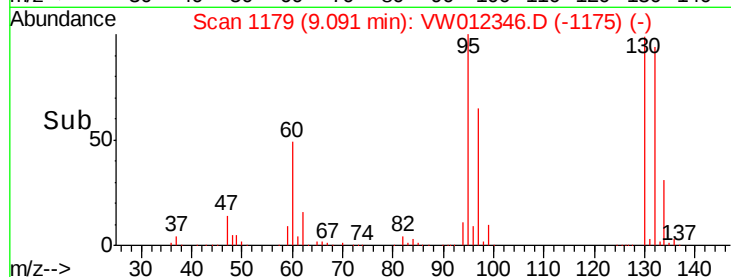
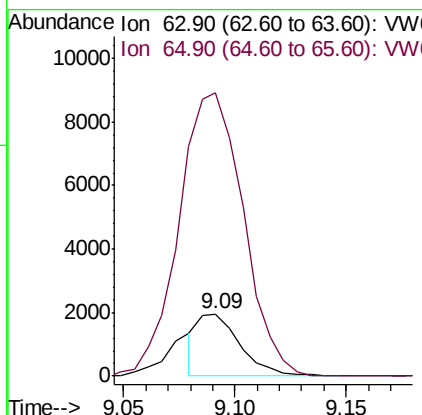
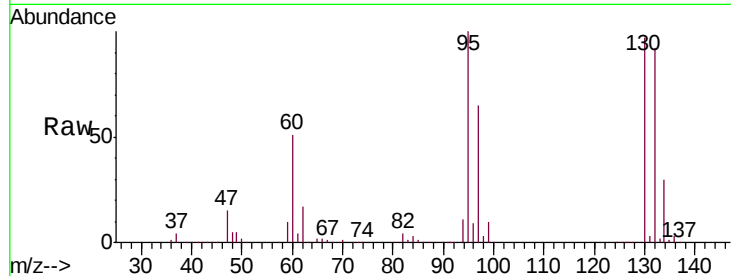




#45
 1,2-Dichloropropane
 Concen: 1.047 ug/l
 RT: 9.09 min Scan# 1179
 Delta R.T. -0.27 min
 Lab File: VW012346.D
 Acq: 30 Aug 2019 12:26

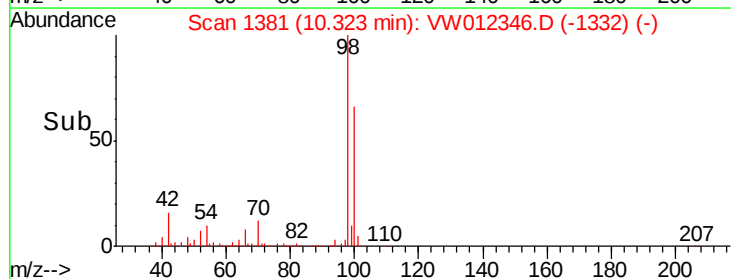
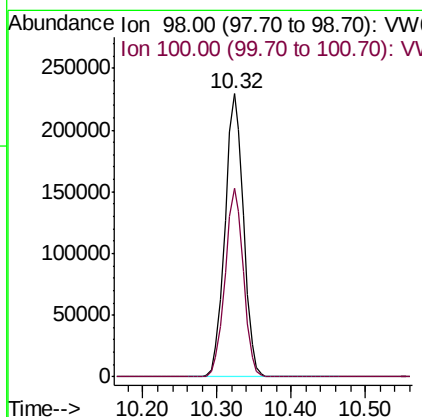
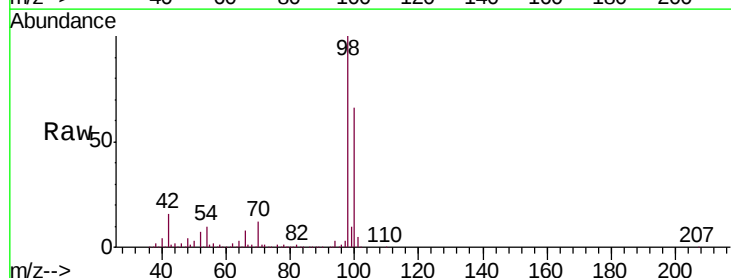
Instrument :
 MSVOA_W
 ClientSampleId :

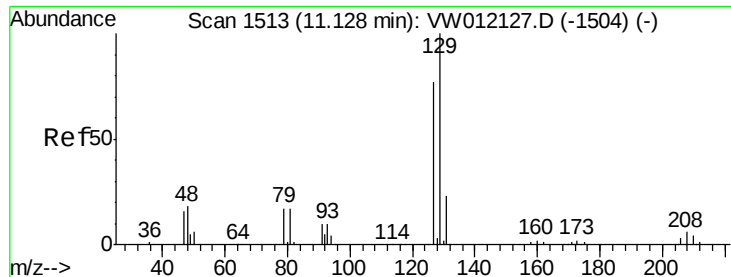
Tot Ion: 63 Resp: 2586
 Ion Ratio Lower Upper
 63 100
 65 453.2 25.0 37.4#



#50
 Toluene-d8
 Concen: 50.529 ug/l
 RT: 10.32 min Scan# 1381
 Delta R.T. -0.00 min
 Lab File: VW012346.D
 Acq: 30 Aug 2019 12:26

Tgt Ion: 98 Resp: 397765
 Ion Ratio Lower Upper
 98 100
 100 65.8 52.4 78.6

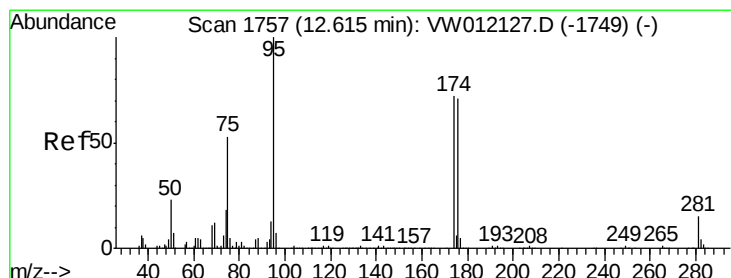
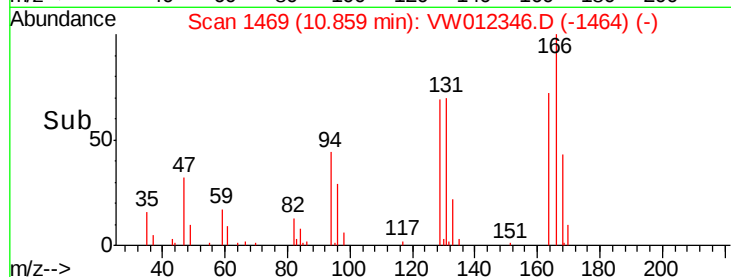
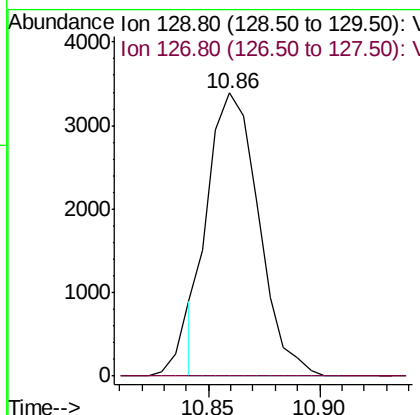
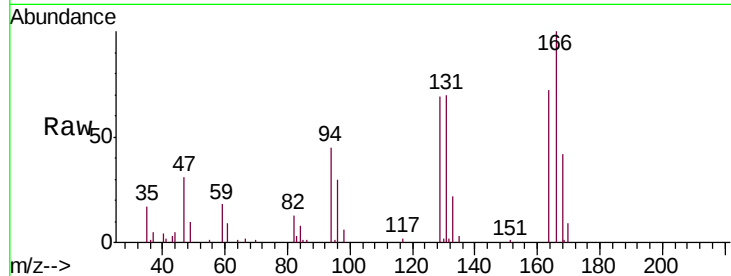




#60
 Dibromochloromethane
 Concen: 3.097 ug/l
 RT: 10.86 min Scan# 1469
 Delta R.T. -0.27 min
 Lab File: VW012346.D
 Acq: 30 Aug 2019 12:26

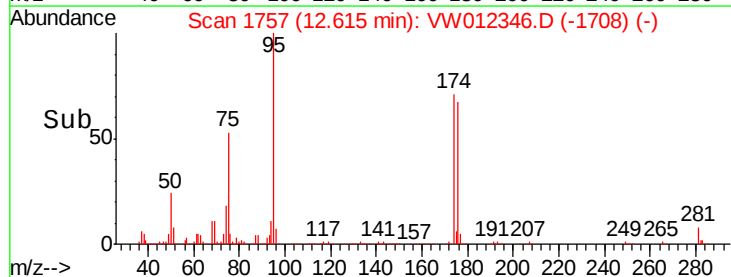
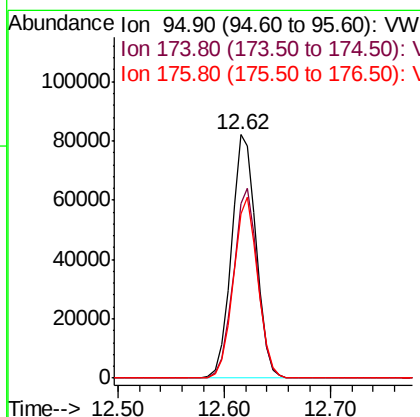
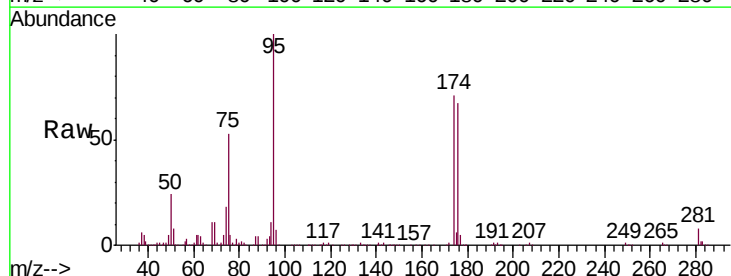
Instrument :
 MSVOA_W
 ClientSampleId :

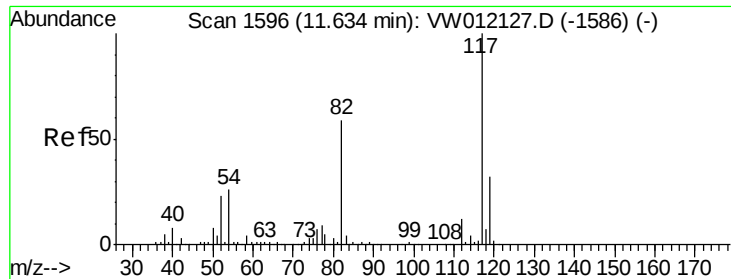
Tot Ion:129 Resp: 5364
 Ion Ratio Lower Upper
 129 100
 127 0.0 38.6 115.8#



#62
 4-Bromofluorobenzene
 Concen: 47.941 ug/l
 RT: 12.62 min Scan# 1757
 Delta R.T. -0.00 min
 Lab File: VW012346.D
 Acq: 30 Aug 2019 12:26

Tgt Ion: 95 Resp: 133029
 Ion Ratio Lower Upper
 95 100
 174 77.0 0.0 150.8
 176 73.5 0.0 148.6

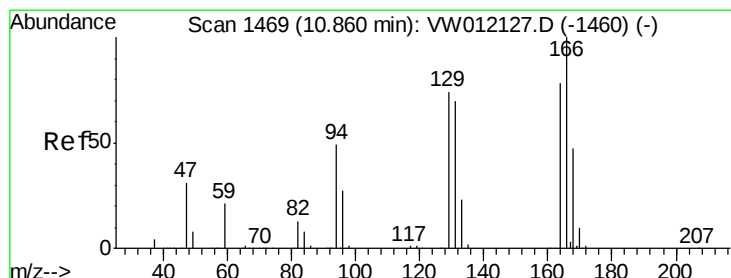
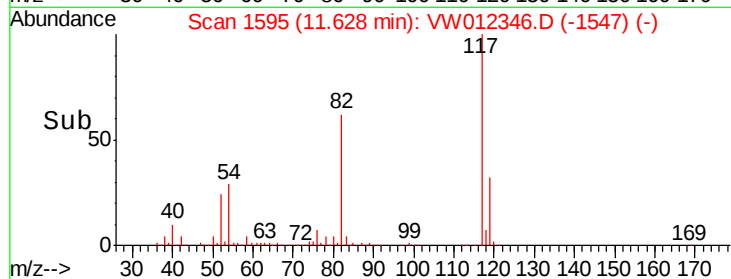
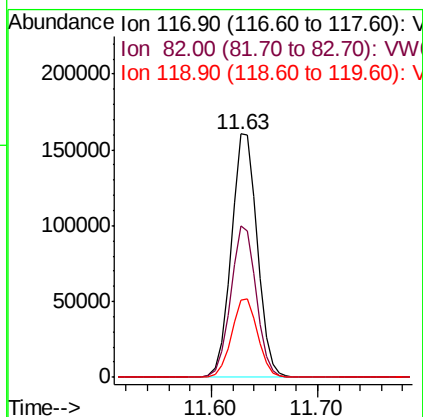
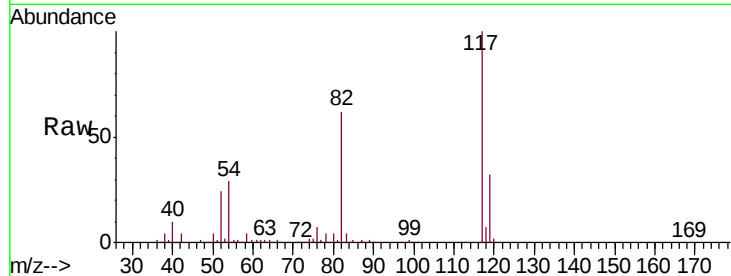




#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.63 min Scan# 1595
Delta R.T. -0.01 min
Lab File: VW012346.D
Acq: 30 Aug 2019 12:26

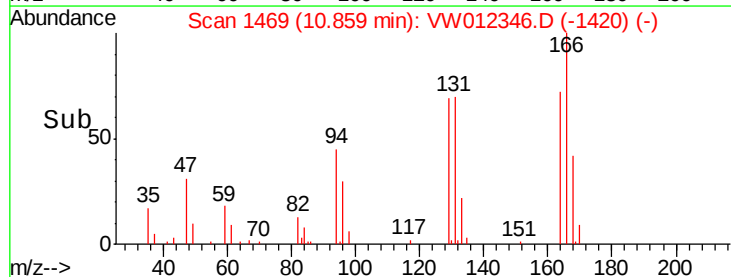
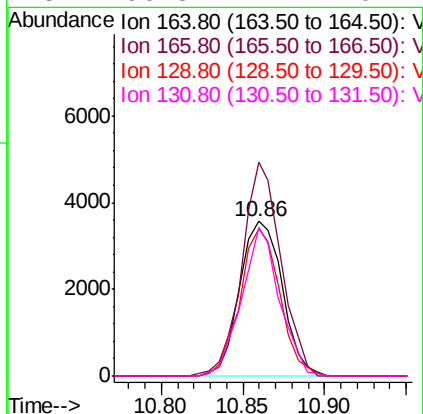
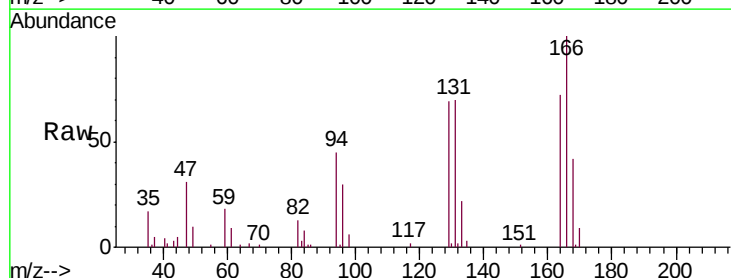
Instrument :
MSVOA_W
ClientSampleId :

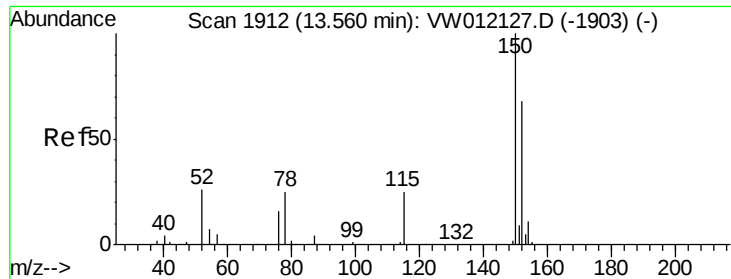
Tot Ion:117 Resp: 275113
Ion Ratio Lower Upper
117 100
82 62.1 47.4 71.2
119 31.5 25.4 38.2



#64
Tetrachloroethene
Concen: 3.630 ug/l
RT: 10.86 min Scan# 1469
Delta R.T. -0.00 min
Lab File: VW012346.D
Acq: 30 Aug 2019 12:26

Tgt Ion:164 Resp: 6474
Ion Ratio Lower Upper
164 100
166 138.4 102.4 153.6
129 95.3 75.8 113.6
131 96.3 71.4 107.2





#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

RT: 13.56 min Scan# 1912

Delta R.T. -0.00 min

Lab File: VW012346.D

Acq: 30 Aug 2019 12:26

Instrument :

MSVOA_W

ClientSampleId :

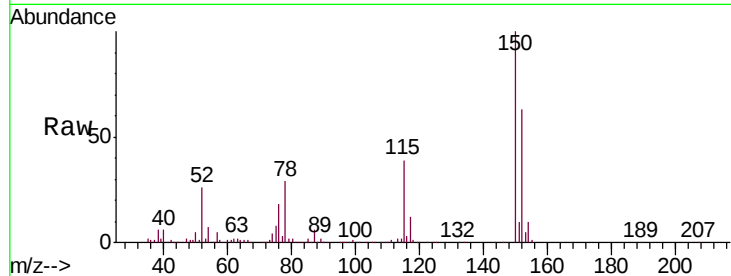
Tot Ion:152 Resp: 118072

Ion Ratio Lower Upper

152 100

115 61.0 30.1 90.3

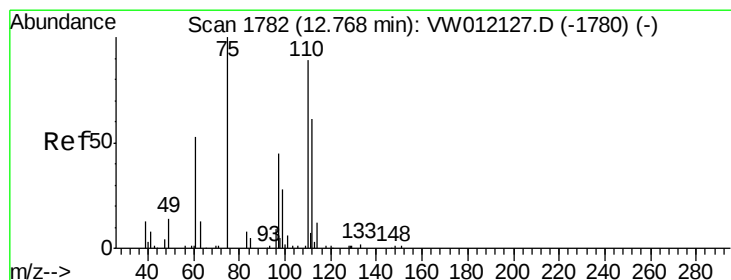
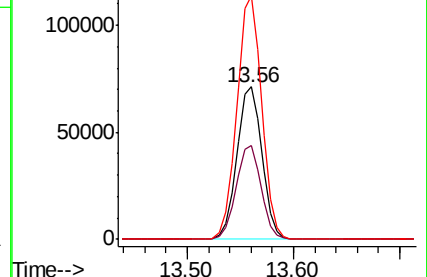
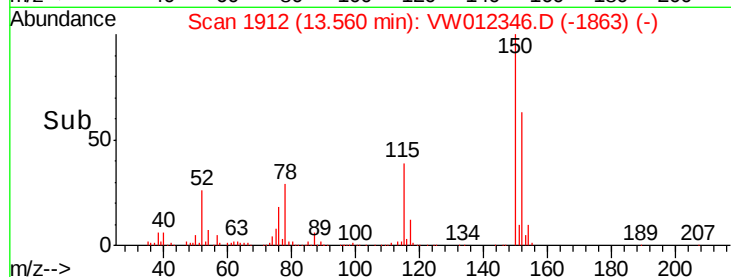
150 157.6 0.0 345.8



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: 63.048 ug/l

RT: 12.62 min Scan# 1757

Delta R.T. -0.15 min

Lab File: VW012346.D

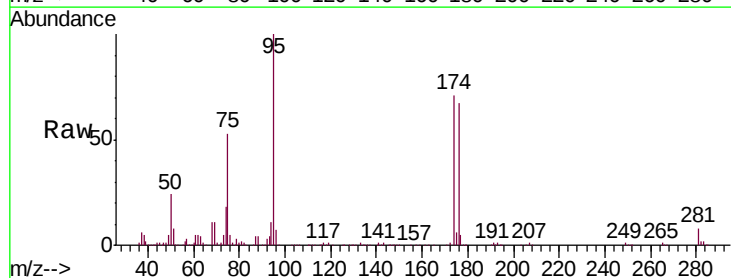
Acq: 30 Aug 2019 12:26

Tgt Ion: 75 Resp: 72501

Ion Ratio Lower Upper

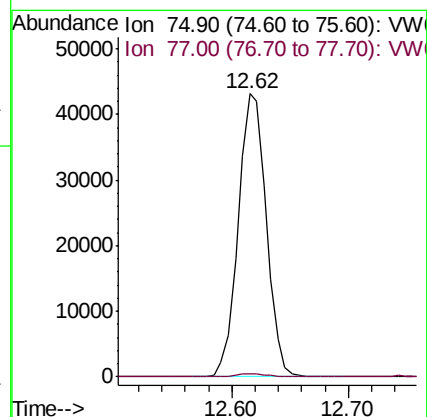
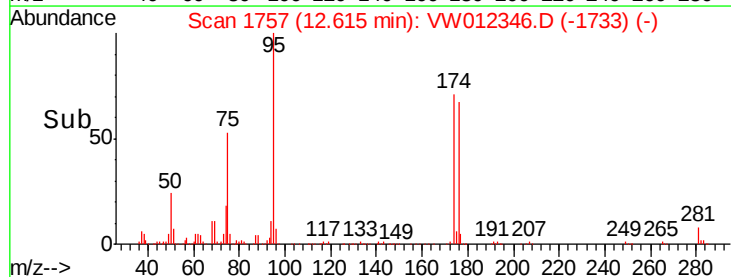
75 100

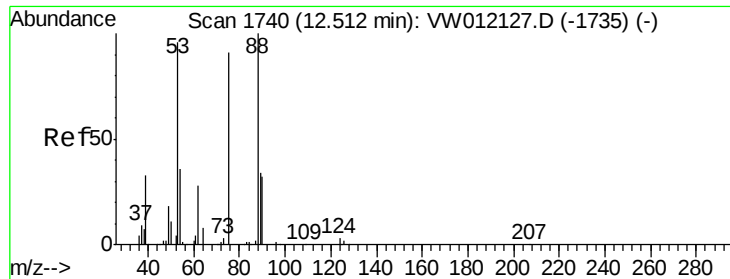
77 1.1 0.0 0.0#



Abundance Ion 74.90 (74.60 to 75.60): VW

Ion 77.00 (76.70 to 77.70): VW

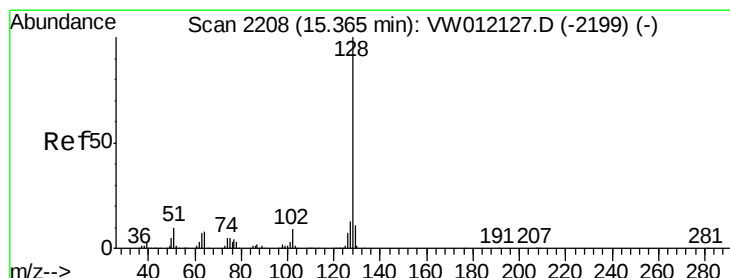
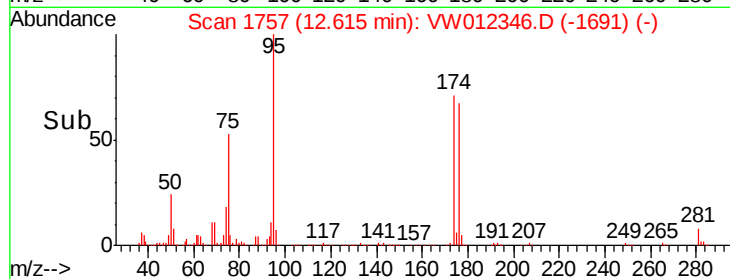
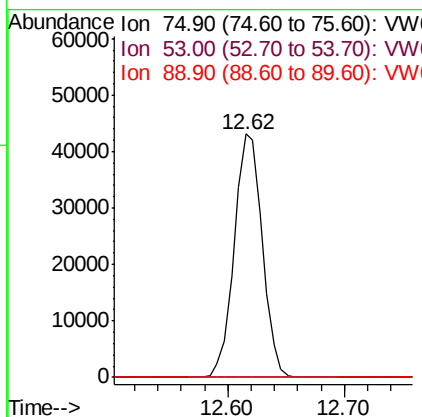
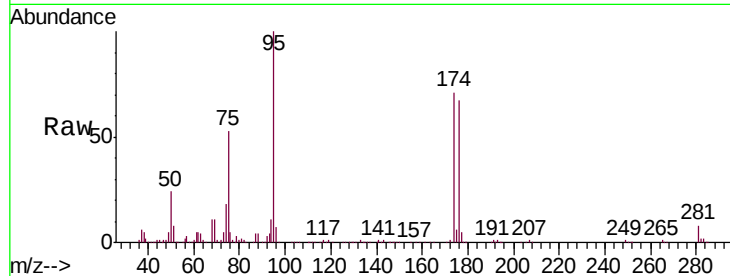




#81
trans-1,4-Dichloro-2-butene
Concen: 138.235 ug/l
RT: 12.62 min Scan# 1757
Delta R.T. 0.10 min
Lab File: VW012346.D
Acq: 30 Aug 2019 12:26

Instrument :
MSVOA_W
ClientSampleId :

Tot Ion: 75 Resp: 72501
Ion Ratio Lower Upper
75 100
53 0.1 89.4 134.0#
89 0.0 34.5 51.7#



#95
Naphthalene
Concen: 4.492 ug/l
RT: 15.36 min Scan# 2208
Delta R.T. 0.00 min
Lab File: VW012346.D
Acq: 30 Aug 2019 12:26

Tgt Ion:128 Resp: 832
Ion Ratio Lower Upper
128 100
127 15.9 10.7 16.1
129 10.3 8.7 13.1

