

Data File : VW012164.D
Acq On : 26 Aug 2019 11:39
Operator : SY/VA
Sample : K4477-01RE
Misc : 6.25G/5ML/MSVOA_W/SOIL
ALS Vial : 7 Sample Multiplier: 1

Instrument :
MSVOA_W
ClientSampleId :
TP-1(1-3)

Quant Time: Aug 27 04:49:40 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	222432	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	8.84	114	373600	50.00	ug/l	0.00
63) Chlorobenzene-d5	11.63	117	310474	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.56	152	126372	50.00	ug/l	0.00

System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	8.31	65	141295	53.44	ug/l	0.00
Spiked Amount	50.000		Recovery	=	106.88%	
35) Dibromofluoromethane	7.88	113	115594	51.84	ug/l	0.00
Spiked Amount	50.000		Recovery	=	103.68%	
50) Toluene-d8	10.32	98	455199	50.34	ug/l	0.00
Spiked Amount	50.000		Recovery	=	100.68%	
62) 4-Bromofluorobenzene	12.62	95	144529	45.34	ug/l	0.00
Spiked Amount	50.000		Recovery	=	90.68%	

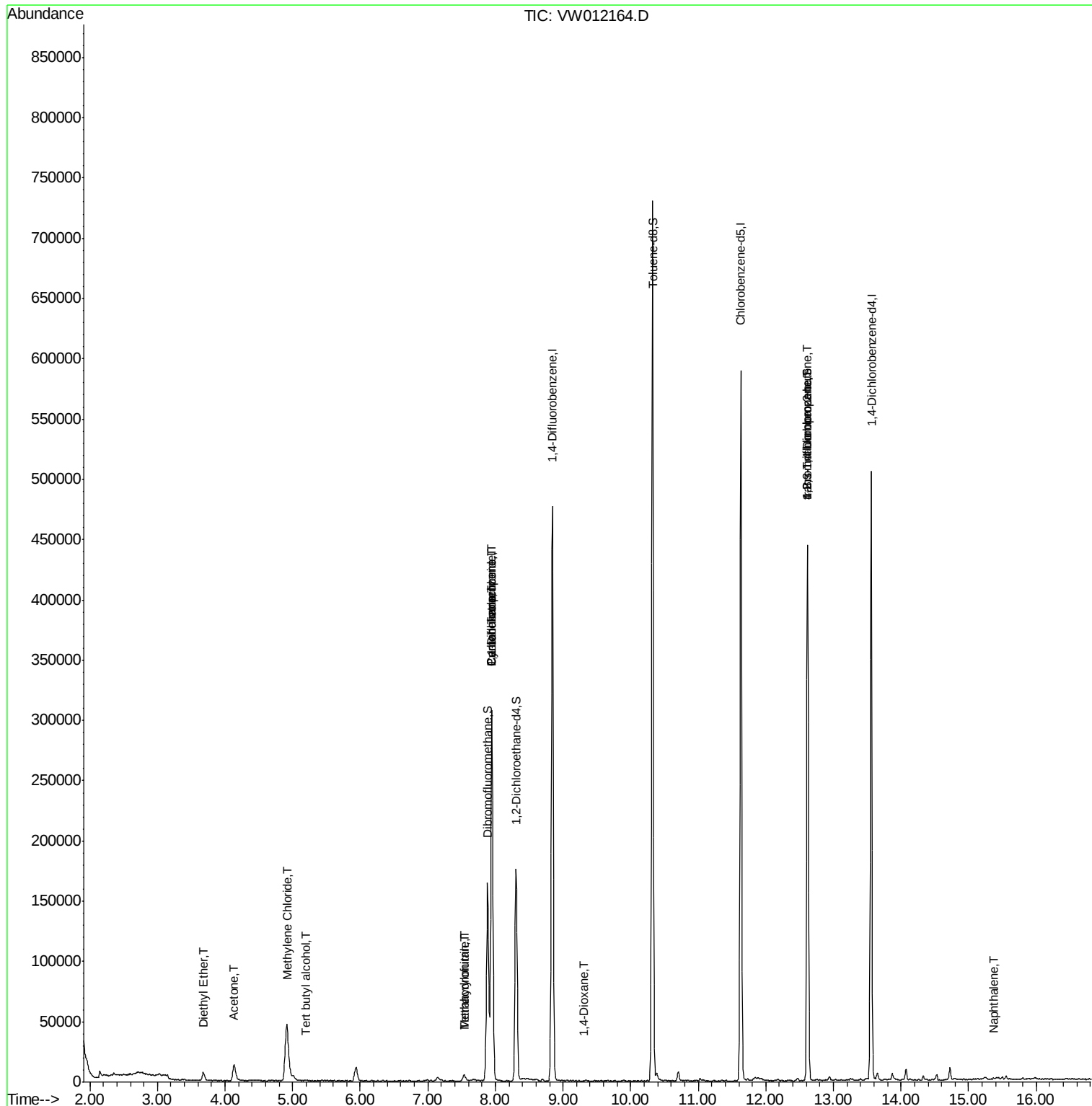
Target Compounds				Qvalue		
8) Diethyl Ether	3.68	74	3496	2.824	ug/l	83
11) Tert butyl alcohol	5.20	59	585	3.676	ug/l #	84
16) Acetone	4.13	43	26620	39.384	ug/l	100
20) Methylene Chloride	4.92	84	36865	14.427	ug/l	97
29) Tetrahydrofuran	7.54	42	4827	8.760	ug/l	98
31) Cyclohexane	7.94	56	5574	1.170	ug/l #	2
36) 1,1-Dichloropropene	7.95	75	19299	4.999	ug/l #	52
38) Carbon Tetrachloride	7.95	117	22474	6.726	ug/l #	16
41) Methacrylonitrile	7.54	41	2753	2.214	ug/l #	57
49) 1,4-Dioxane	9.29	88	20	1.035	ug/l #	1
76) 1,2,3-Trichloropropane	12.62	75	76362	62.044	ug/l #	100
81) trans-1,4-Dichloro-2-buten	12.62	75	76362	136.034	ug/l #	6
95) Naphthalene	15.37	128	1061	4.524	ug/l #	86

(#) = 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# 992

Delta R.T. 0.01 min

Lab File: VW012164.D

Acq: 26 Aug 2019 11:39

Instrument :

MSVOA_W

ClientSampled :

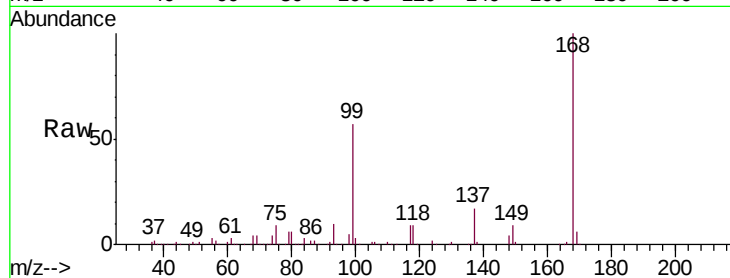
TP-1(1-3)

Tgt Ion:168 Resp: 222432

Ion Ratio Lower Upper

168 100

99 57.4 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

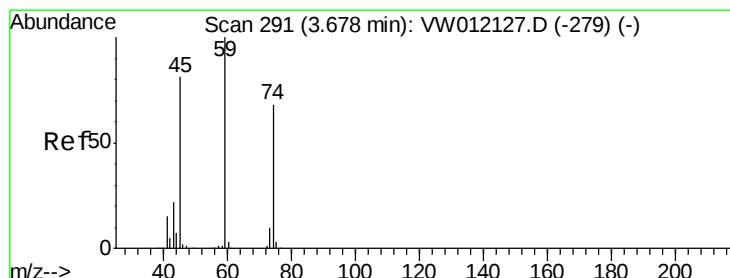
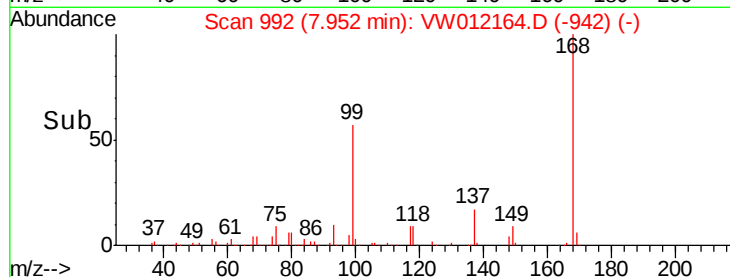
60000

40000

20000

0

Time-->



#8

Diethyl Ether

Concen: 2.824 ug/l

RT: 3.68 min Scan# 292

Delta R.T. 0.01 min

Lab File: VW012164.D

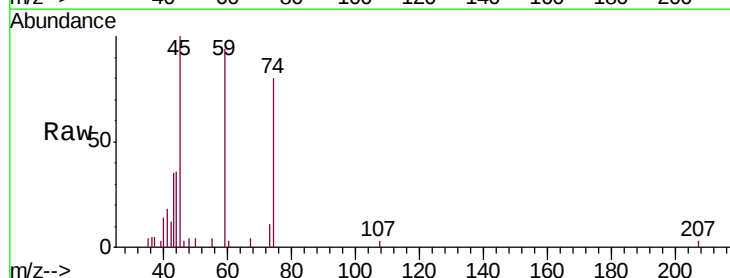
Acq: 26 Aug 2019 11:39

Tgt Ion: 74 Resp: 3496

Ion Ratio Lower Upper

74 100

45 137.5 59.2 177.6



Abundance Ion 74.00 (73.70 to 74.70): VW

Ion 45.00 (44.70 to 45.70): VW

2500

2000

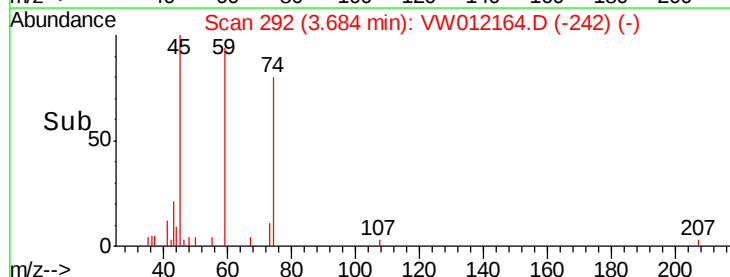
1500

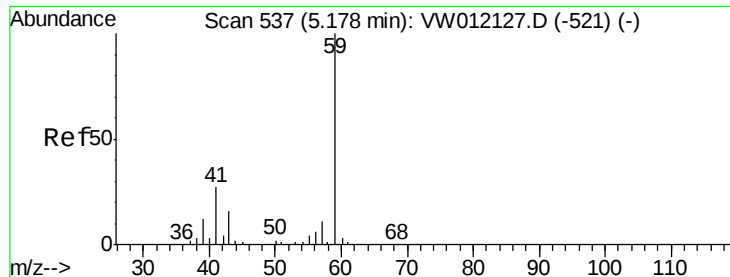
1000

500

0

Time-->

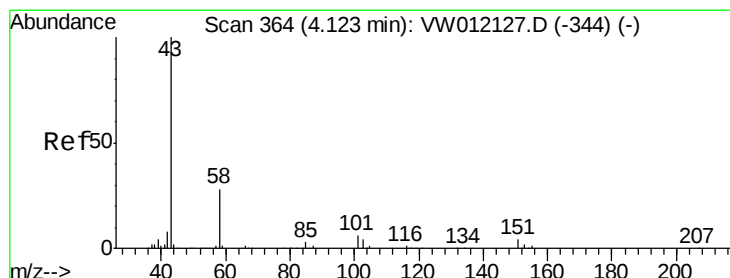
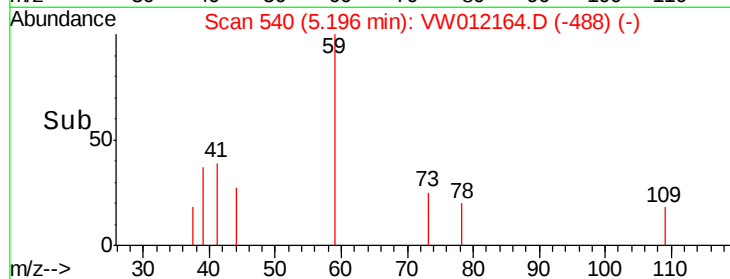
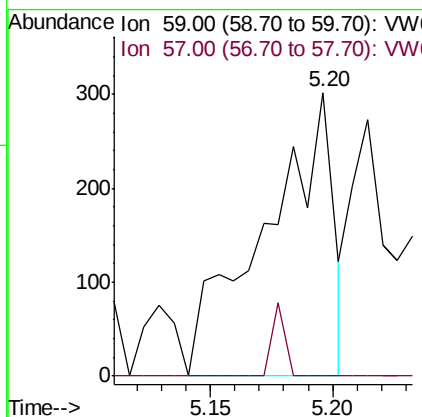
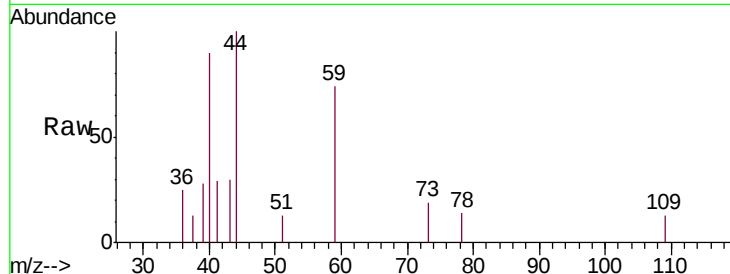




#11
Tert butyl alcohol
Concen: 3.676 ug/l
RT: 5.20 min Scan# 540
Delta R.T. 0.02 min
Lab File: VW012164.D
Acq: 26 Aug 2019 11:39

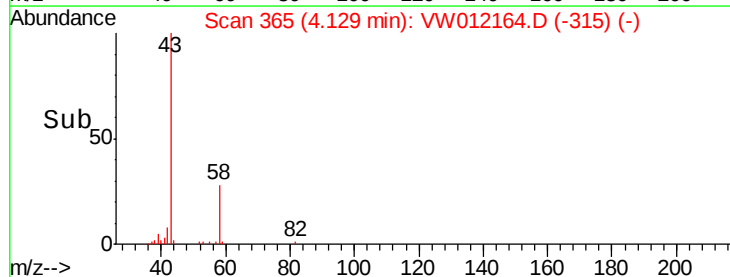
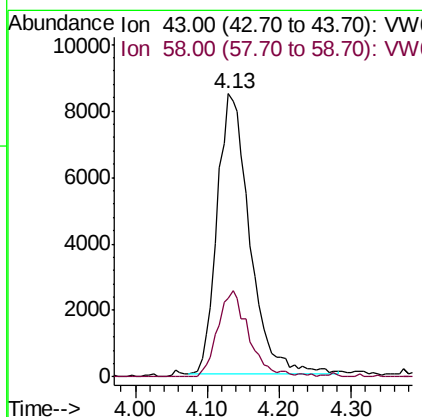
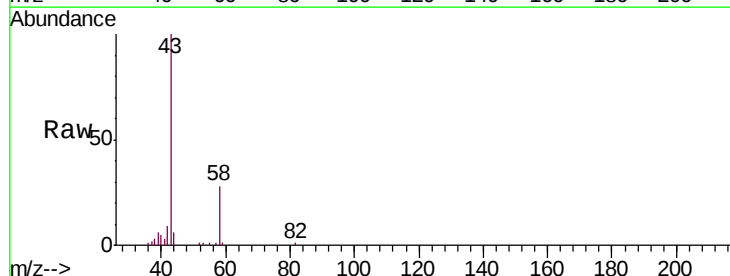
Instrument :
MSVOA_W
ClientSampled :
TP-1(1-3)

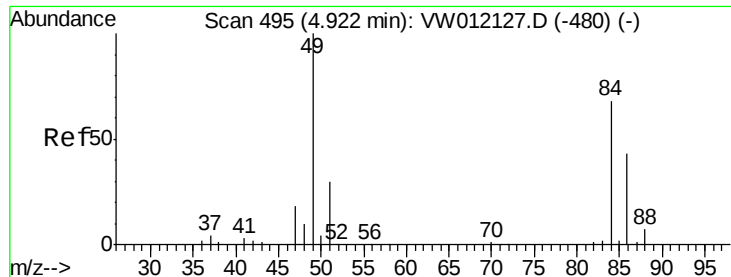
Tgt Ion: 59 Resp: 585
Ion Ratio Lower Upper
59 100
57 5.0 9.0 13.4#



#16
Acetone
Concen: 39.384 ug/l
RT: 4.13 min Scan# 365
Delta R.T. 0.01 min
Lab File: VW012164.D
Acq: 26 Aug 2019 11:39

Tgt Ion: 43 Resp: 26620
Ion Ratio Lower Upper
43 100
58 27.8 22.4 33.6

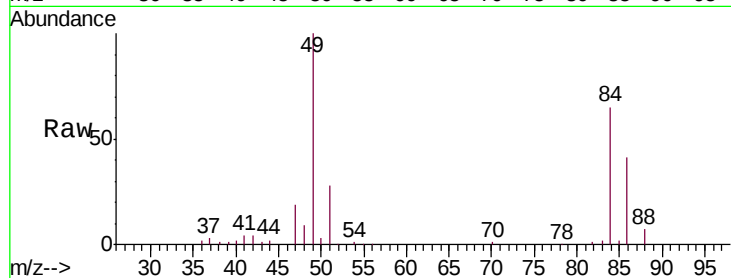




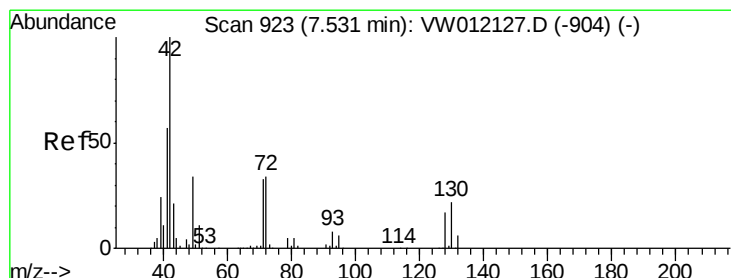
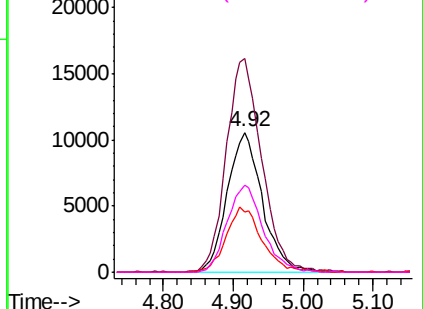
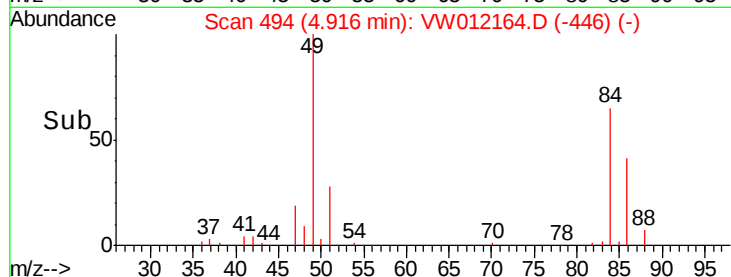
#20
Methylene Chloride
Concen: 14.427 ug/l
RT: 4.92 min Scan# 494
Delta R.T. -0.01 min
Lab File: VW012164.D
Acq: 26 Aug 2019 11:39

Instrument :
MSVOA_W
ClientSampleId :
TP-1(1-3)

Tgt Ion: 84 Resp: 36865
Ion Ratio Lower Upper
84 100
49 152.2 117.8 176.8
51 42.7 35.6 53.4
86 62.3 51.2 76.8

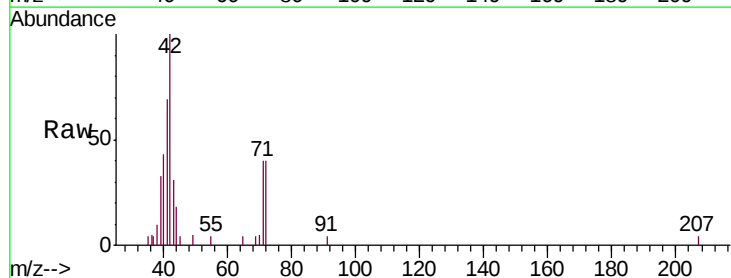


Abundance Ion 83.90 (83.60 to 84.60): VW
25000 Ion 48.90 (48.60 to 49.60): VW
20000 Ion 50.90 (50.60 to 51.60): VW
15000 Ion 85.90 (85.60 to 86.60): VW

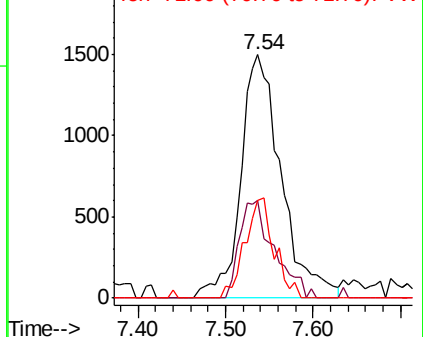
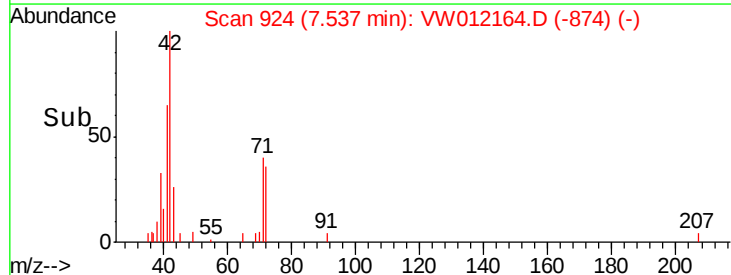


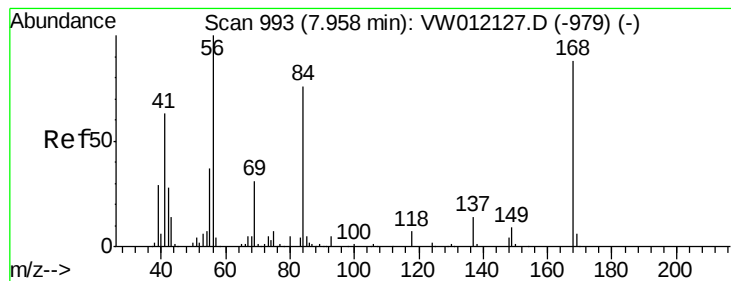
#29
Tetrahydrofuran
Concen: 8.760 ug/l
RT: 7.54 min Scan# 924
Delta R.T. 0.01 min
Lab File: VW012164.D
Acq: 26 Aug 2019 11:39

Tgt Ion: 42 Resp: 4827
Ion Ratio Lower Upper
42 100
72 34.2 27.3 40.9
71 29.4 25.5 38.3



Abundance Ion 42.00 (41.70 to 42.70): VW
2000 Ion 72.00 (71.70 to 72.70): VW
1500 Ion 71.00 (70.70 to 71.70): VW





#31

Cyclohexane

Concen: 1.170 ug/l

RT: 7.94 min Scan# 990

Delta R.T. -0.02 min

Lab File: VW012164.D

Acq: 26 Aug 2019 11:39

Instrument :

MSVOA_W

ClientSampled :

TP-1(1-3)

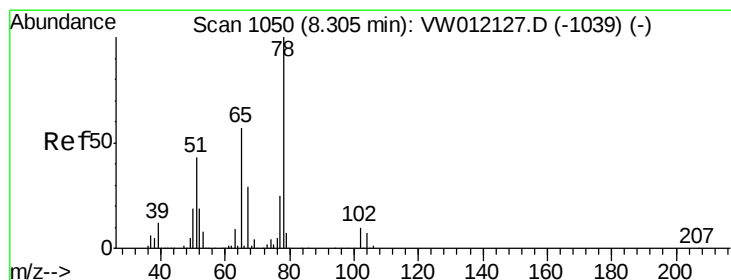
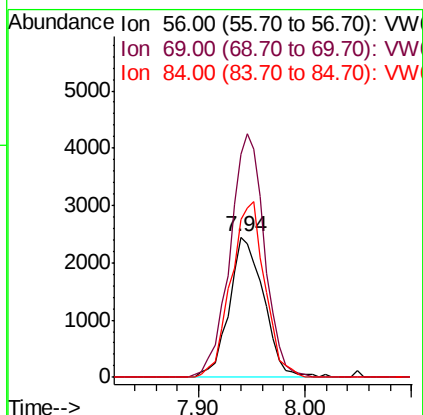
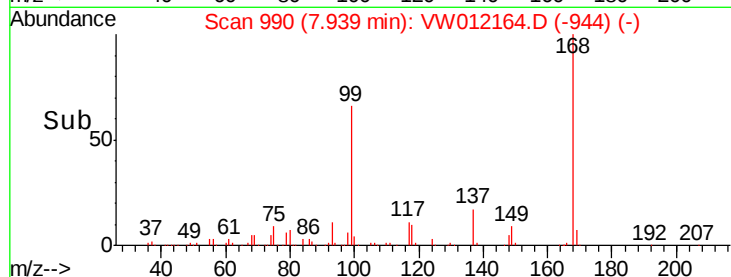
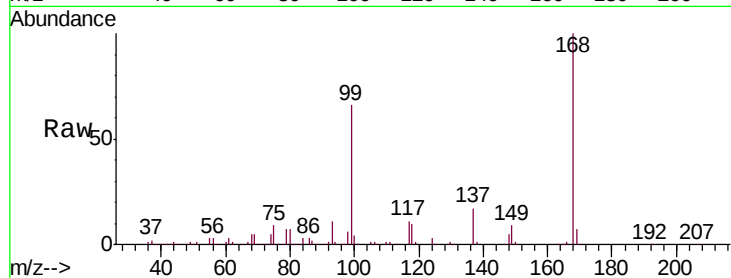
Tgt Ion: 56 Resp: 5574

Ion Ratio Lower Upper

56 100

69 158.9 24.9 37.3#

84 112.9 60.6 90.8#



#33

1,2-Dichloroethane-d4

Concen: 53.436 ug/l

RT: 8.31 min Scan# 1050

Delta R.T. 0.00 min

Lab File: VW012164.D

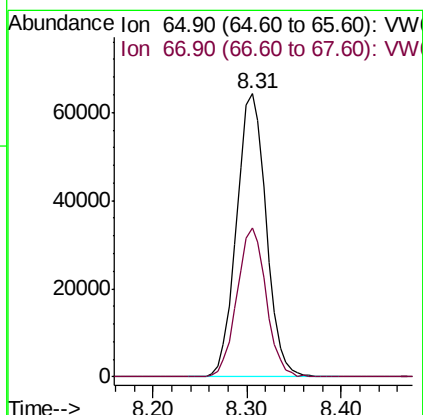
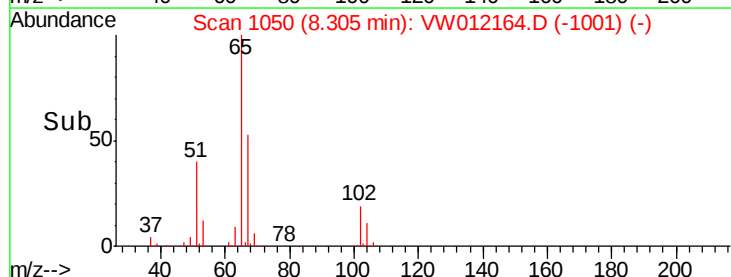
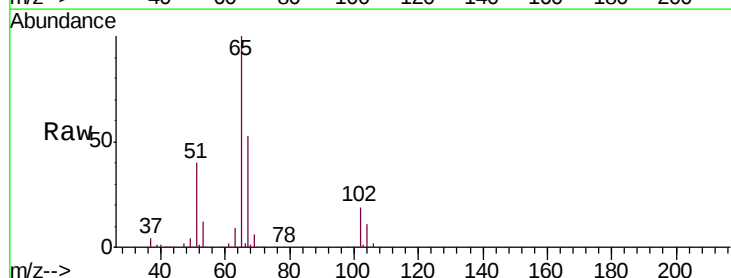
Acq: 26 Aug 2019 11:39

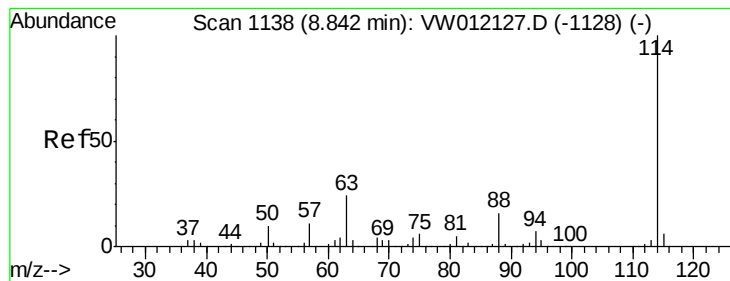
Tgt Ion: 65 Resp: 141295

Ion Ratio Lower Upper

65 100

67 52.0 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: VW012164.D

Acq: 26 Aug 2019 11:39

Instrument :

MSVOA_W

ClientSampleId :

TP-1(1-3)

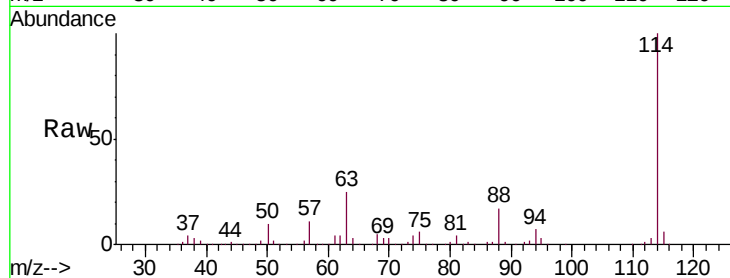
Tgt Ion:114 Resp: 373600

Ion Ratio Lower Upper

114 100

63 25.5 0.0 48.6

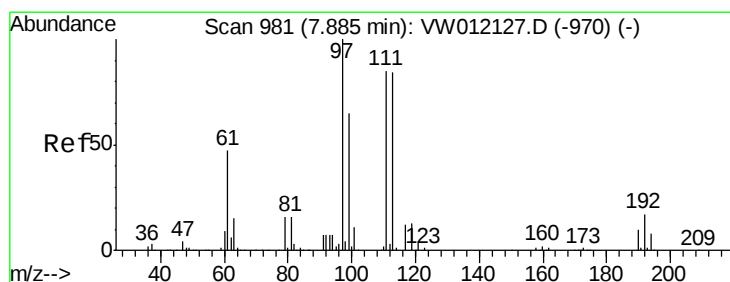
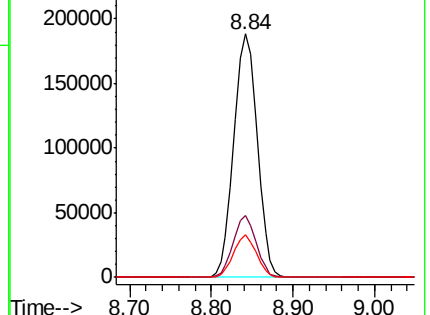
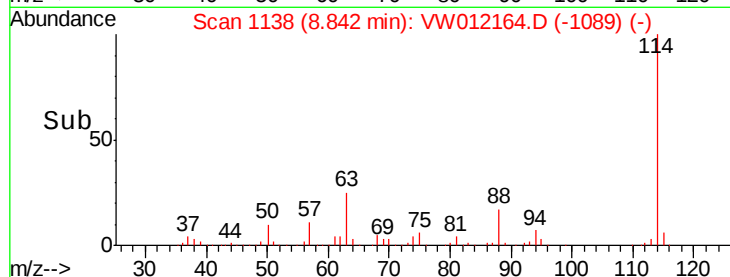
88 17.4 0.0 32.2



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: 51.835 ug/l

RT: 7.88 min Scan# 981

Delta R.T. 0.00 min

Lab File: VW012164.D

Acq: 26 Aug 2019 11:39

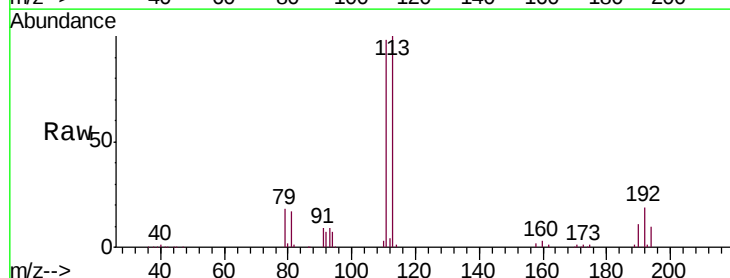
Tgt Ion:113 Resp: 115594

Ion Ratio Lower Upper

113 100

111 102.2 82.7 124.1

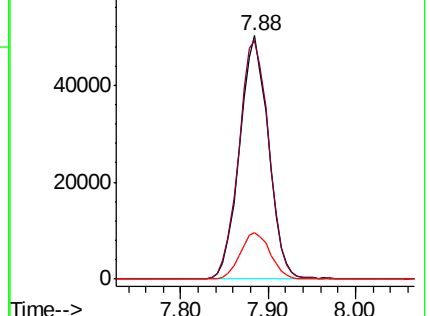
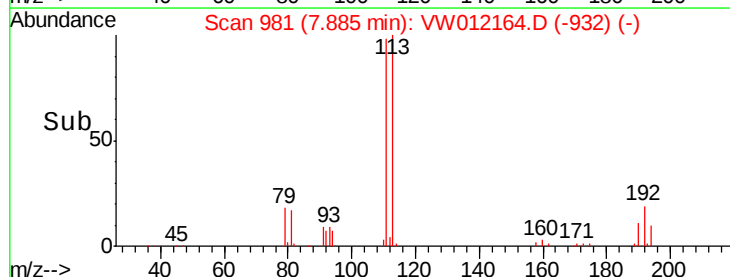
192 19.9 16.2 24.2

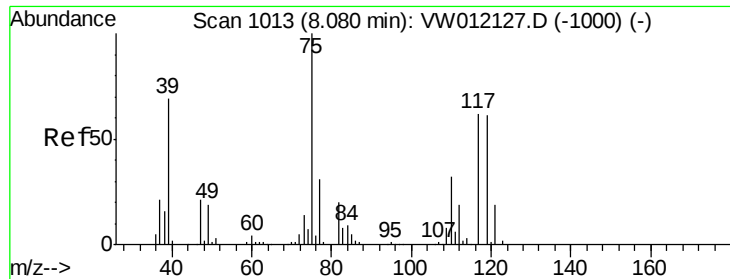


Abundance Ion 112.80 (112.50 to 113.50): V

Ion 110.80 (110.50 to 111.50): V

Ion 191.70 (191.40 to 192.40): V

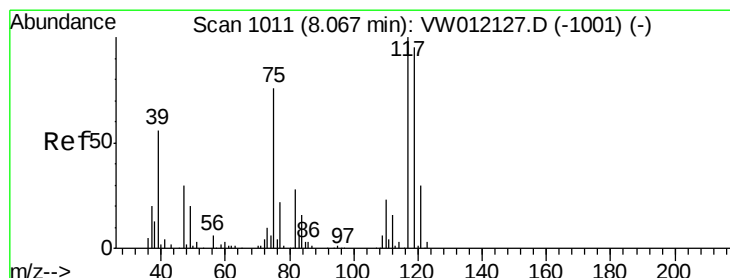
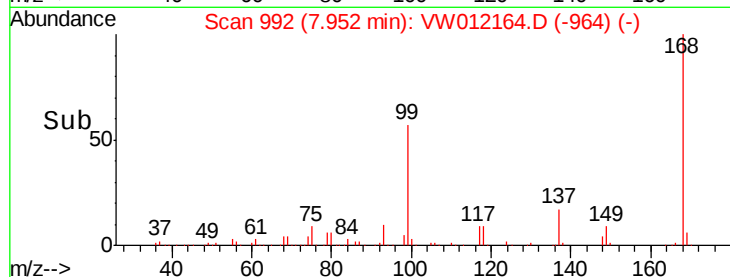
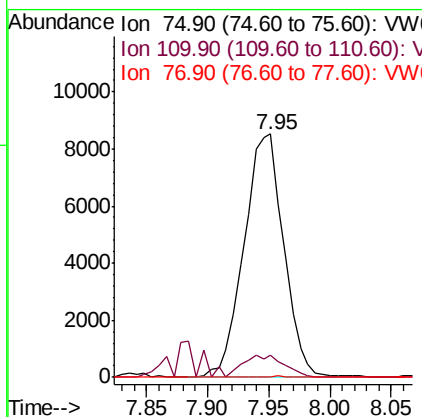
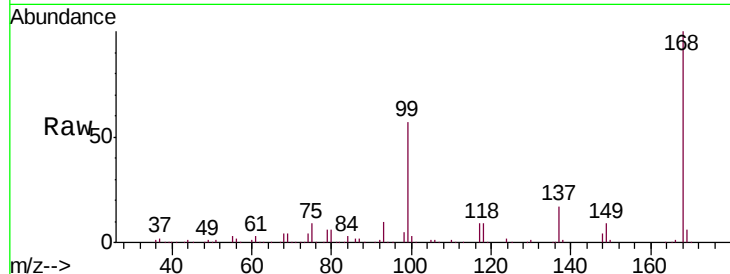




#36
 1,1-Dichloropropene
 Concen: 4.999 ug/l
 RT: 7.95 min Scan# 992
 Delta R.T. -0.13 min
 Lab File: VW012164.D
 Acq: 26 Aug 2019 11:39

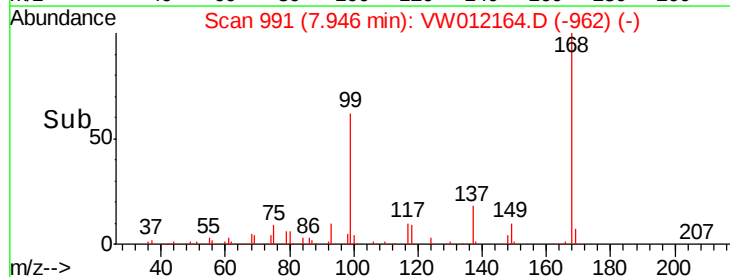
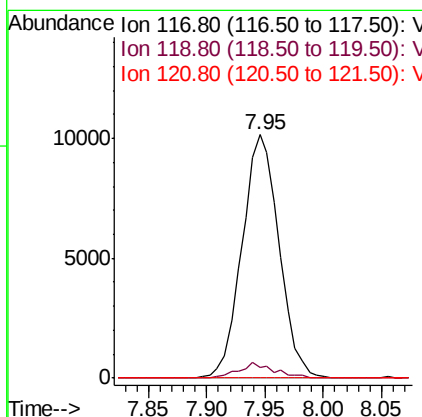
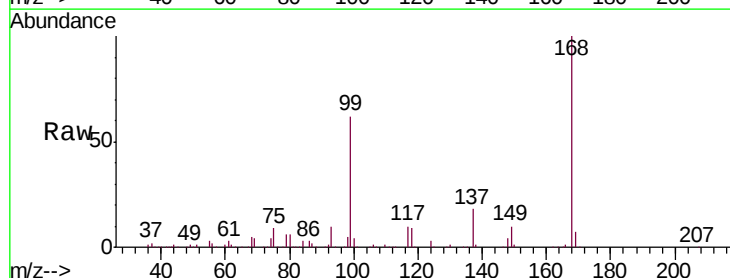
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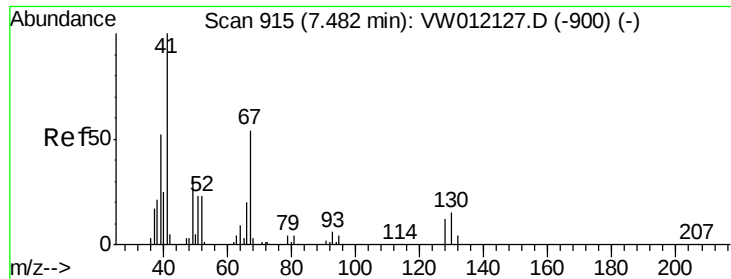
Tgt Ion	Ratio	Lower	Upper
75	100		
110	9.3	15.6	46.8#
77	0.1	24.6	36.8#



#38
 Carbon Tetrachloride
 Concen: 6.726 ug/l
 RT: 7.95 min Scan# 991
 Delta R.T. -0.12 min
 Lab File: VW012164.D
 Acq: 26 Aug 2019 11:39

Tgt Ion	Ratio	Lower	Upper
117	100		
119	4.5	76.2	114.2#
121	0.0	23.8	35.8#

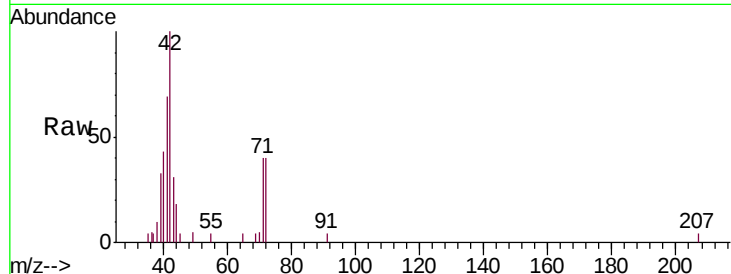




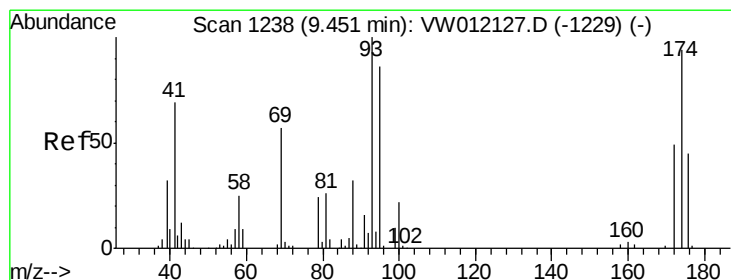
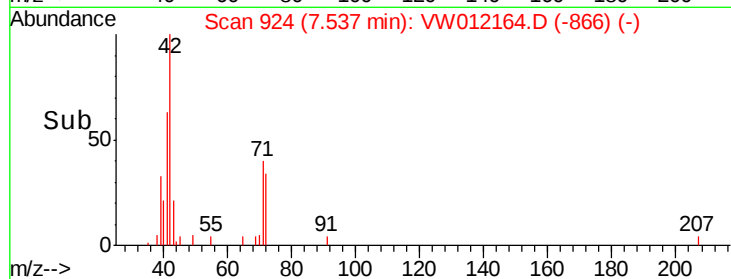
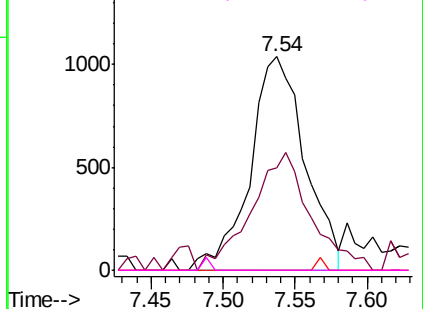
#41
Methacrylonitrile
Concen: 2.214 ug/l
RT: 7.54 min Scan# 924
Delta R.T. 0.05 min
Lab File: VW012164.D
Acq: 26 Aug 2019 11:39

Instrument :
MSVOA_W
ClientSampled :
TP-1(1-3)

Tgt Ion:	41	Resp:	2753
Ion	Ratio	Lower	Upper
41	100		
39	59.7	45.8	68.8
67	0.0	46.2	69.4#
52	0.0	21.0	31.6#

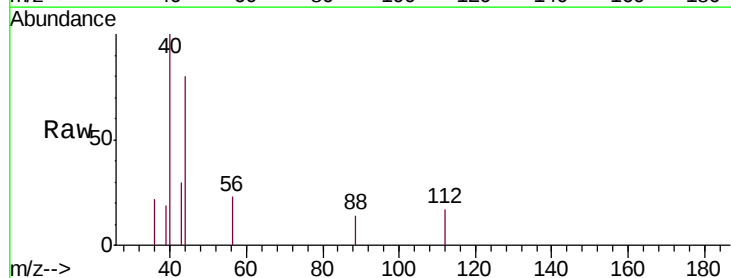


Abundance Ion 41.00 (40.70 to 41.70): VW
Ion 39.00 (38.70 to 39.70): VW
Ion 67.00 (66.70 to 67.70): VW
Ion 52.00 (51.70 to 52.70): VW

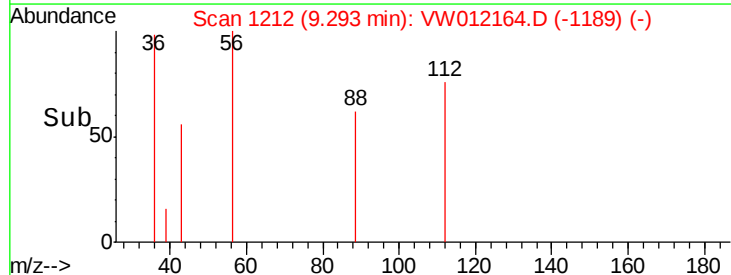
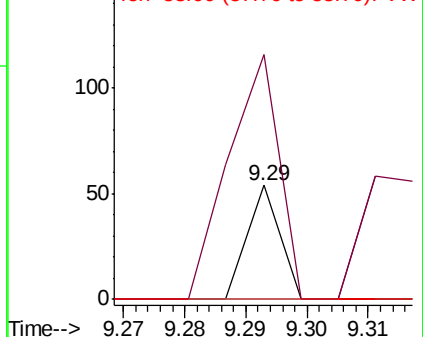


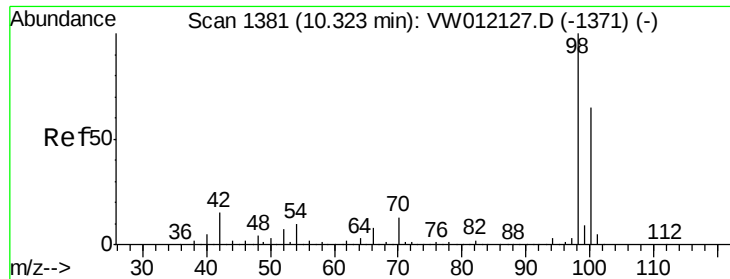
#49
1,4-Dioxane
Concen: 1.035 ug/l
RT: 9.29 min Scan# 1212
Delta R.T. -0.16 min
Lab File: VW012164.D
Acq: 26 Aug 2019 11:39

Tgt Ion:	88	Resp:	20
Ion	Ratio	Lower	Upper
88	100		
43	330.0	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: 50.342 ug/l

RT: 10.32 min Scan# 1381

Delta R.T. 0.00 min

Lab File: VW012164.D

Acq: 26 Aug 2019 11:39

Instrument :

MSVOA_W

ClientSampleId :

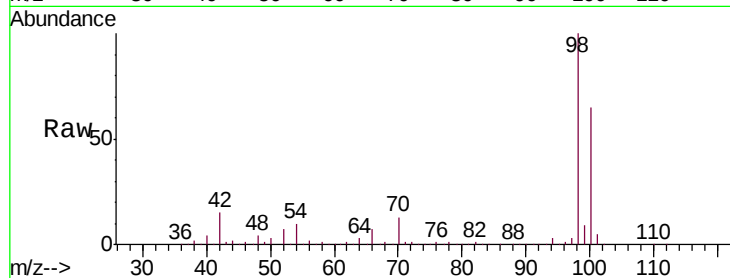
TP-1(1-3)

Tgt Ion: 98 Resp: 455199

Ion Ratio Lower Upper

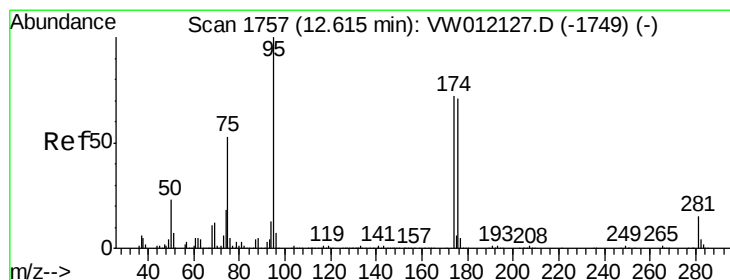
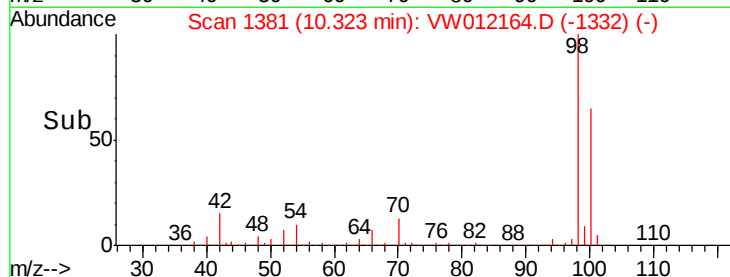
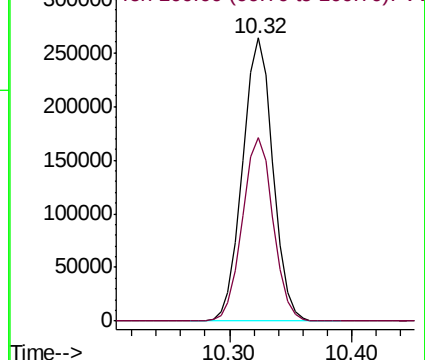
98 100

100 65.6 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: 45.345 ug/l

RT: 12.62 min Scan# 1757

Delta R.T. 0.00 min

Lab File: VW012164.D

Acq: 26 Aug 2019 11:39

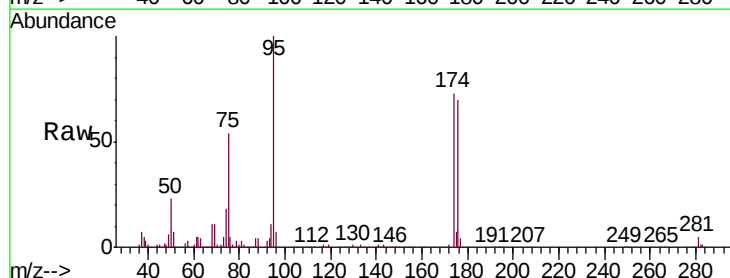
Tgt Ion: 95 Resp: 144529

Ion Ratio Lower Upper

95 100

174 76.1 0.0 150.8

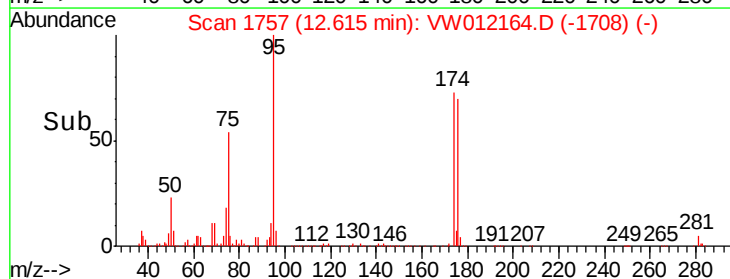
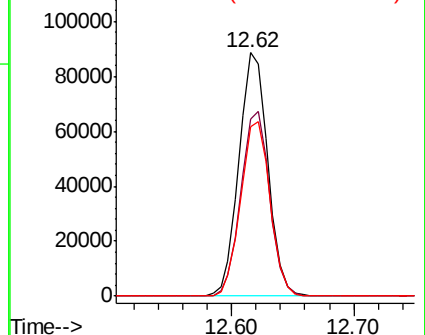
176 73.3 0.0 148.6

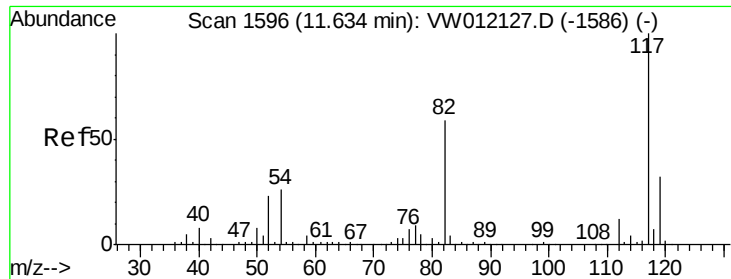


Abundance Ion 94.90 (94.60 to 95.60): VW

Ion 173.80 (173.50 to 174.50): VW

Ion 175.80 (175.50 to 176.50): VW

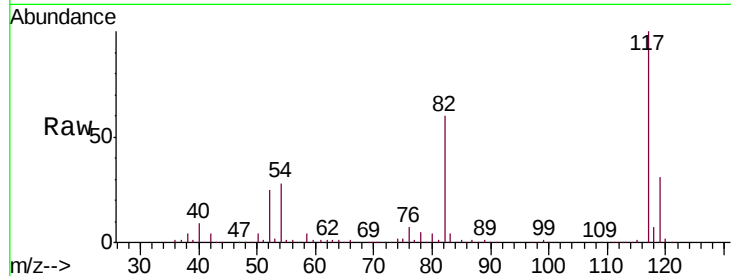




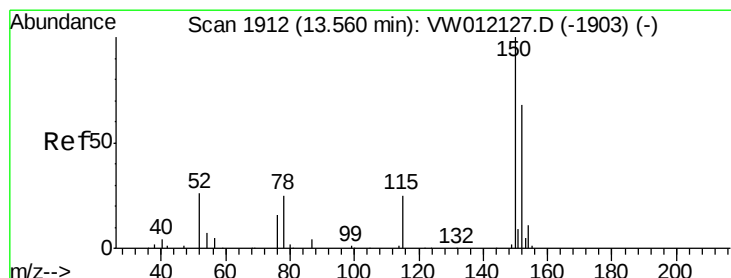
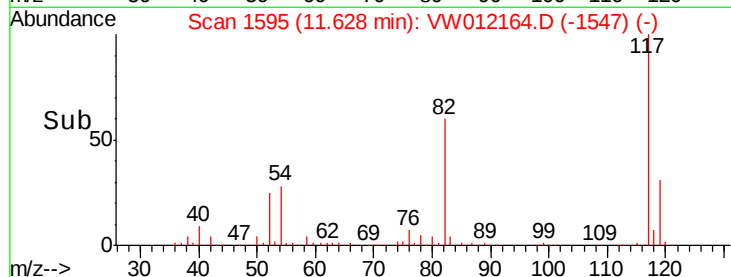
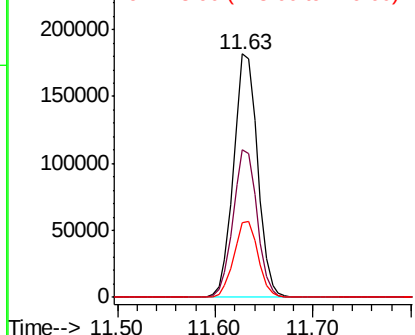
#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.63 min Scan# 1595
Delta R.T. -0.01 min
Lab File: VW012164.D
Acq: 26 Aug 2019 11:39

Instrument :
MSVOA_W
ClientSampleId :
TP-1(1-3)

Tgt Ion:117 Resp: 310474
Ion Ratio Lower Upper
117 100
82 60.4 47.4 71.2
119 30.8 25.4 38.2

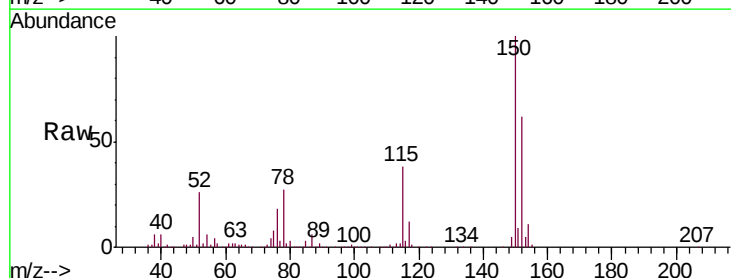


Abundance Ion 116.90 (116.60 to 117.60): V
Ion 82.00 (81.70 to 82.70): VW
Ion 118.90 (118.60 to 119.60): V

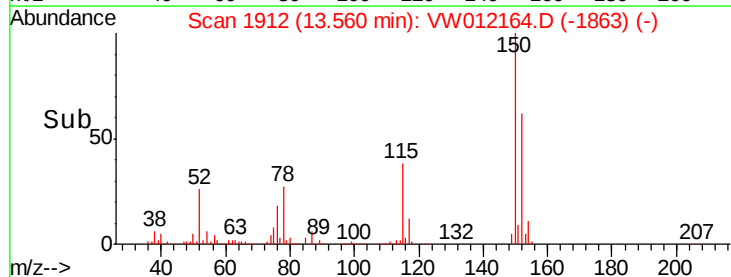
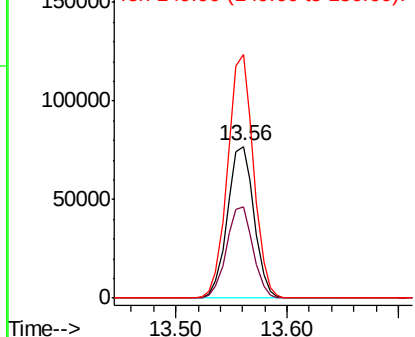


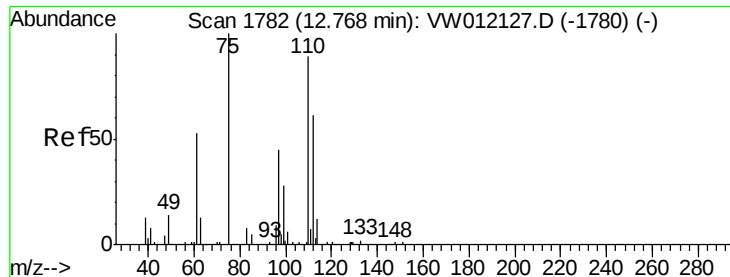
#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 13.56 min Scan# 1912
Delta R.T. 0.00 min
Lab File: VW012164.D
Acq: 26 Aug 2019 11:39

Tgt Ion:152 Resp: 126372
Ion Ratio Lower Upper
152 100
115 60.3 30.1 90.3
150 156.7 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: 62.044 ug/l

RT: 12.62 min Scan# 1757

Delta R.T. -0.15 min

Lab File: VW012164.D

Acq: 26 Aug 2019 11:39

Instrument :

MSVOA_W

ClientSampled :

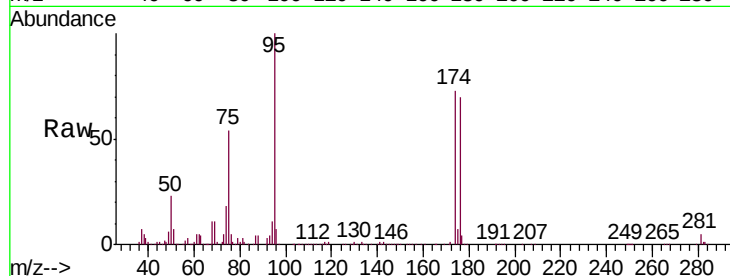
TP-1(1-3)

Tgt Ion: 75 Resp: 76362

Ion Ratio Lower Upper

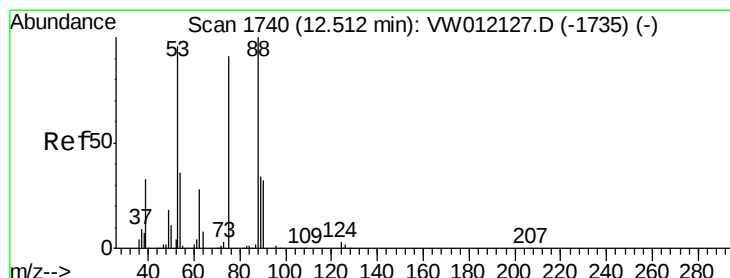
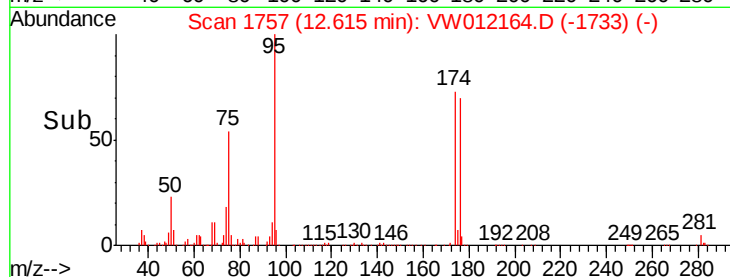
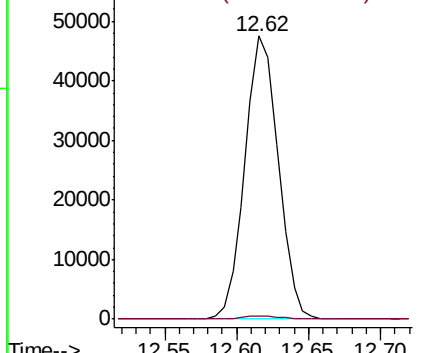
75 100

77 1.3 0.0 0.0#



Abundance Ion 74.90 (74.60 to 75.60): VW

Ion 77.00 (76.70 to 77.70): VW



#81

trans-1,4-Dichloro-2-butene

Concen: 136.034 ug/l

RT: 12.62 min Scan# 1757

Delta R.T. 0.10 min

Lab File: VW012164.D

Acq: 26 Aug 2019 11:39

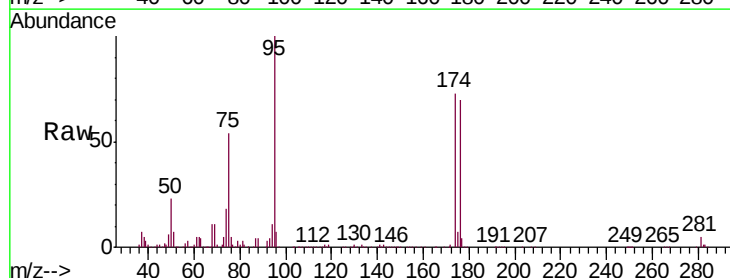
Tgt Ion: 75 Resp: 76362

Ion Ratio Lower Upper

75 100

53 0.2 89.4 134.0#

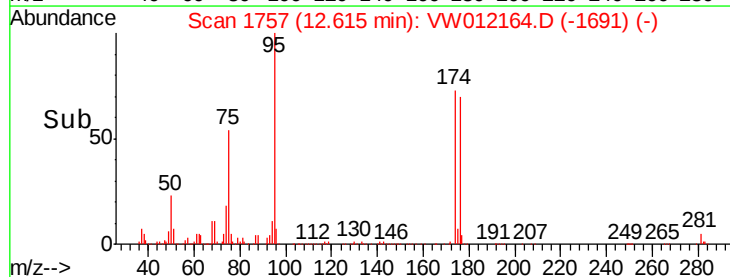
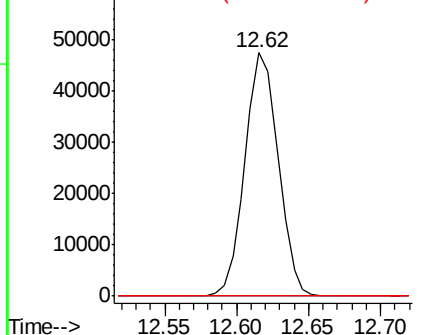
89 0.1 34.5 51.7#

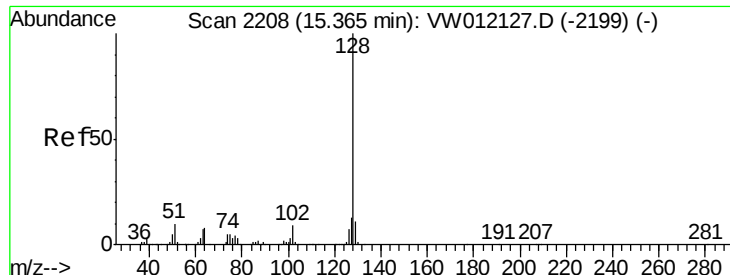


Abundance Ion 74.90 (74.60 to 75.60): VW

Ion 53.00 (52.70 to 53.70): VW

Ion 88.90 (88.60 to 89.60): VW





#95

Naphthalene

Concen: 4.524 ug/l

RT: 15.37 min Scan# 2209

Delta R.T. 0.01 min

Lab File: VW012164.D

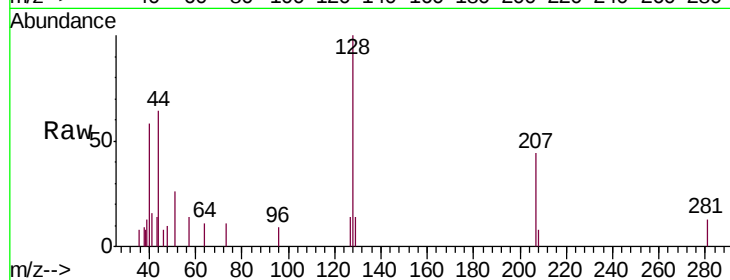
Acq: 26 Aug 2019 11:39

Instrument :

MSVOA_W

ClientSampleId :

TP-1(1-3)



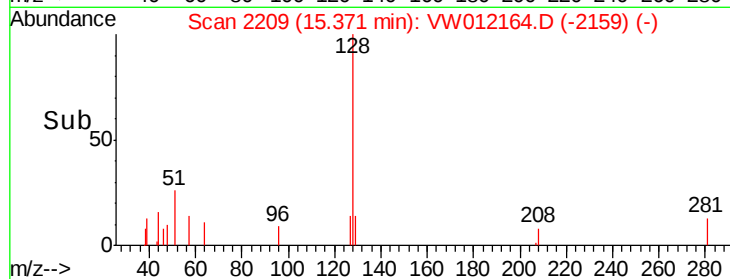
Tgt Ion:128 Resp: 1061

Ion Ratio Lower Upper

128 100

127 8.1 10.7 16.1#

129 5.6 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

