

Data Path : Z:\VOASRV\HPCHEM1\MSVOA_W\DATA\VW062318\
 Data File : VW003466.D
 Acq On : 23 Jun 2018 17:45
 Operator : SY/AP
 Sample : J3664-09
 Misc : 6.31G/5ML/MSVOA_W/SOIL
 ALS Vial : 16 Sample Multiplier: 1

Instrument :
 MSVOA_W
 ClientSampleId :
 WP021SB476-27-29-180619

Quant Time: Jun 25 02:37:53 2018
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_W\METHOD\82W061318S.M
 Quant Title : SW846 8260
 QLast Update : Sat Jun 16 05:18:54 2018
 Response via : Initial Calibration

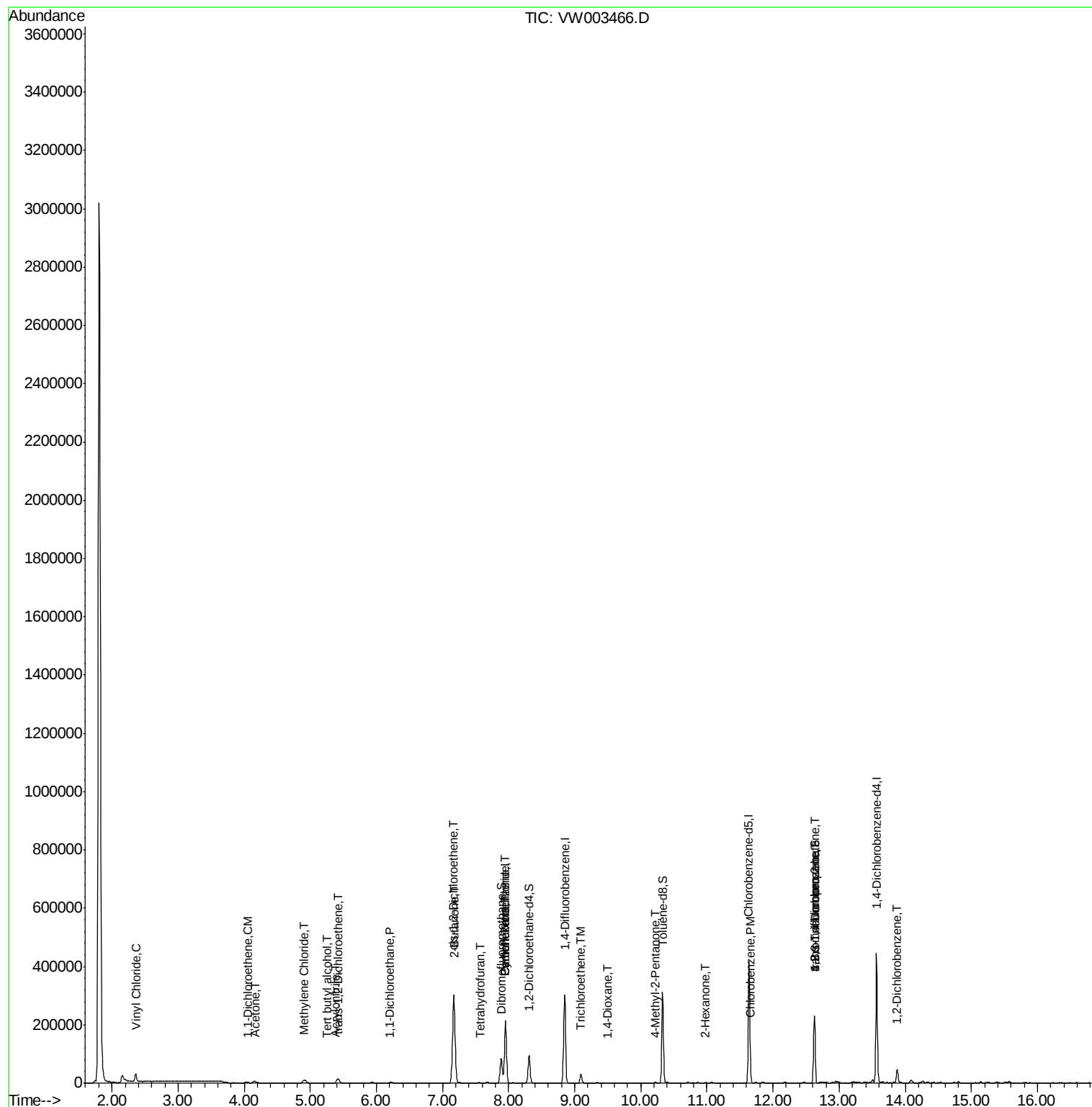
Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	7.95	168	153898	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	8.85	114	242051	50.00	ug/l	0.00
63) Chlorobenzene-d5	11.63	117	221872	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.57	152	109294	50.00	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	8.31	65	73176	43.90	ug/l	0.00
Spiked Amount 50.000			Recovery	=	87.80%	
35) Dibromofluoromethane	7.89	113	60207	40.03	ug/l	0.00
Spiked Amount 50.000			Recovery	=	80.06%	
50) Toluene-d8	10.33	98	199791	33.50	ug/l	0.00
Spiked Amount 50.000			Recovery	=	67.00%	
62) 4-Bromofluorobenzene	12.63	95	69273	32.82	ug/l	0.00
Spiked Amount 50.000			Recovery	=	65.64%	
Target Compounds						
					Qvalue	
4) Vinyl Chloride	2.36	62	27566	16.085	ug/l	99
11) Tert butyl alcohol	5.25	59	384	4.295	ug/l #	84
12) 1,1-Dichloroethene	4.05	96	1547	1.110	ug/l #	55
15) Acrylonitrile	5.38	53	424	1.366	ug/l #	17
16) Acetone	4.16	43	11270	32.236	ug/l #	89
20) Methylene Chloride	4.91	84	8151	1.962	ug/l	91
21) trans-1,2-Dichloroethene	5.42	96	8029	5.295	ug/l	95
24) 1,1-Dichloroethane	6.21	63	4269	1.481	ug/l #	93
25) 2-Butanone	7.18	43	1102	2.535	ug/l #	1
27) cis-1,2-Dichloroethene	7.17	96	171889	103.200	ug/l	92
29) Tetrahydrofuran	7.57	42	1134	4.268	ug/l #	88
31) Cyclohexane	7.95	56	4220	1.567	ug/l #	6
38) Carbon Tetrachloride	7.95	117	15242	6.647	ug/l #	19
44) Trichloroethene	9.09	130	10055	5.889	ug/l	91
49) 1,4-Dioxane	9.49	88	30	2.366	ug/l #	1
51) 4-Methyl-2-Pentanone	10.22	43	1781	1.818	ug/l	95
59) 2-Hexanone	10.98	43	1487	2.172	ug/l	80
65) Chlorobenzene	11.66	112	6481	1.403	ug/l	96
76) 1,2,3-Trichloropropane	12.62	75	38282	40.972	ug/l #	100
81) trans-1,4-Dichloro-2-buten	12.62	75	38282	94.280	ug/l #	8
91) 1,2-Dichlorobenzene	13.88	146	17249	5.414	ug/l	98

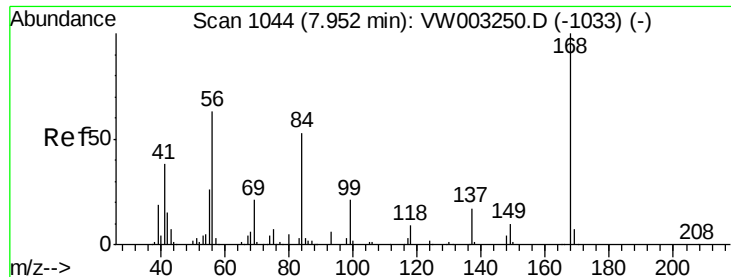
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 7.95 min Scan# 1044

Delta R.T. 0.00 min

Lab File: VW003466.D

Acq: 23 Jun 2018 17:45

Instrument :

MSVOA_W

ClientSampleId :

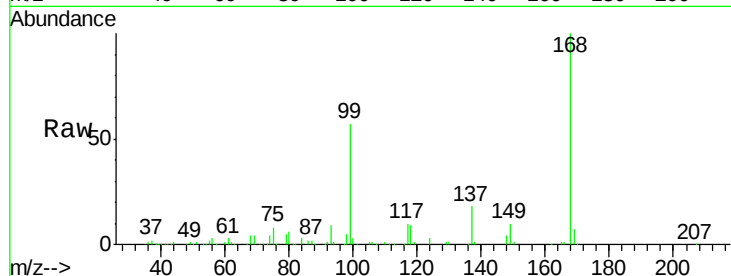
WP021SB476-27-29-180619

Tgt Ion:168 Resp: 153898

Ion Ratio Lower Upper

168 100

99 57.3 45.5 68.3



Abundance Ion 167.90 (167.60 to 168.60): VW

Ion 98.90 (98.60 to 99.60): VW

7.95

80000

60000

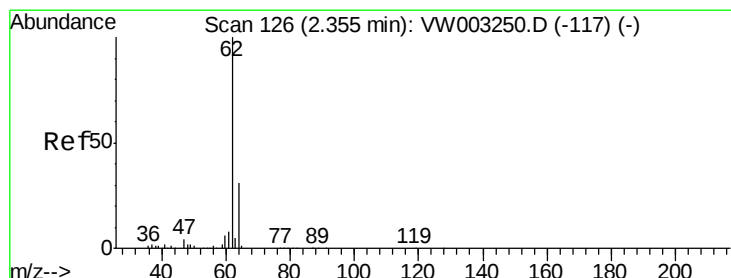
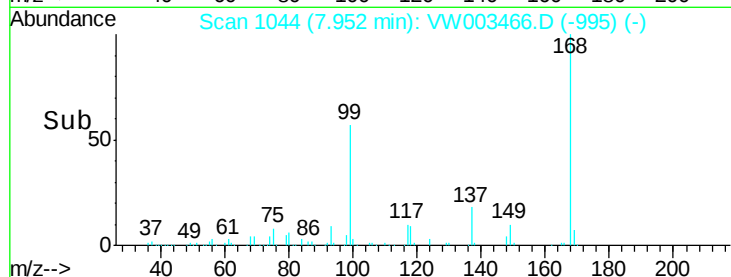
40000

20000

0

7.90 8.00

Time-->



#4

Vinyl Chloride

Concen: 16.085 ug/l

RT: 2.36 min Scan# 127

Delta R.T. 0.01 min

Lab File: VW003466.D

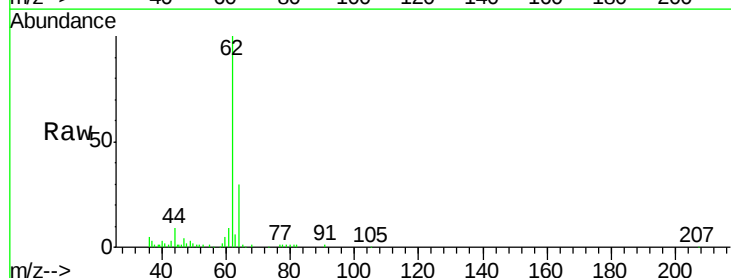
Acq: 23 Jun 2018 17:45

Tgt Ion: 62 Resp: 27566

Ion Ratio Lower Upper

62 100

64 30.4 24.9 37.3



Abundance Ion 61.90 (61.60 to 62.60): VW

Ion 63.90 (63.60 to 64.60): VW

2.36

15000

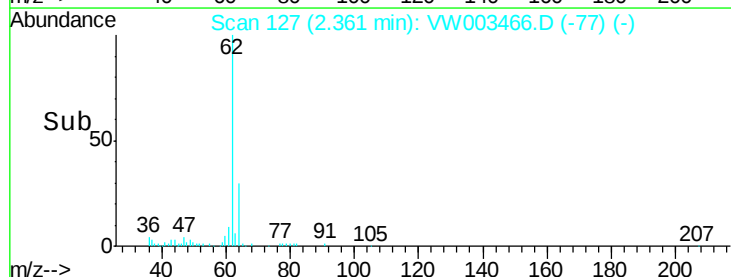
10000

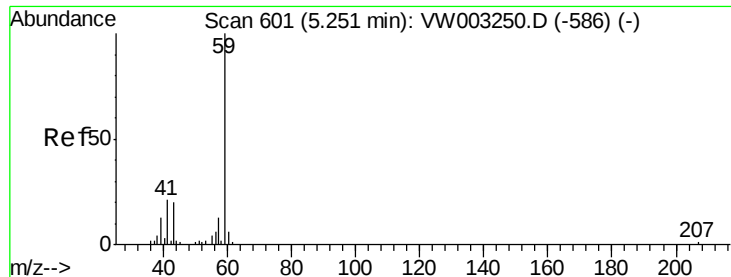
5000

0

2.25 2.30 2.35 2.40 2.45

Time-->



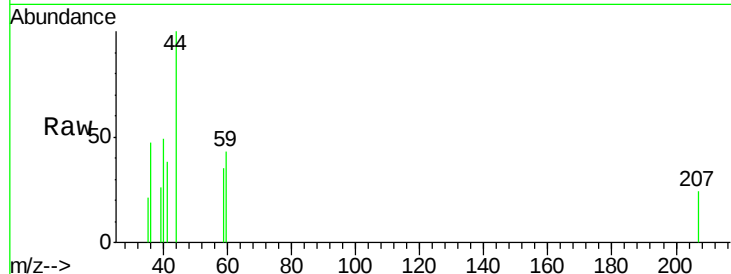


#11

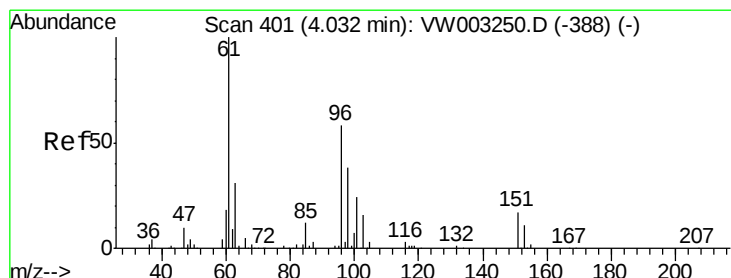
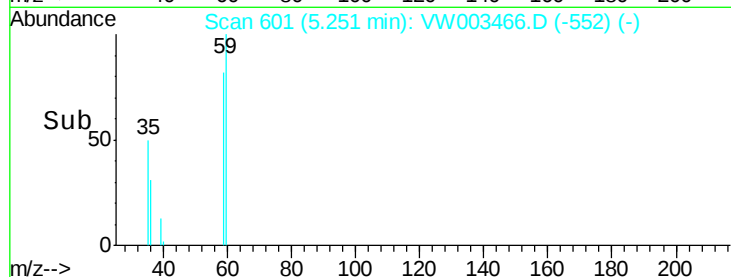
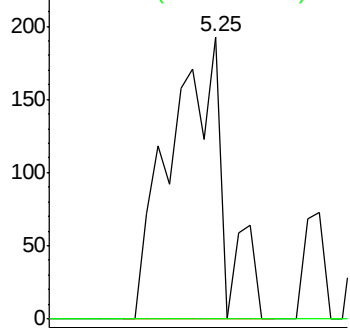
Tert butyl alcohol
Concen: 4.295 ug/l
RT: 5.25 min Scan# 601
Delta R.T. 0.00 min
Lab File: VW003466.D
Acq: 23 Jun 2018 17:45

Instrument :
MSVOA_W
ClientSampleId :
WP021SB476-27-29-180619

Tgt Ion: 59 Resp: 384
Ion Ratio Lower Upper
59 100
57 0.0 4.2 6.2#



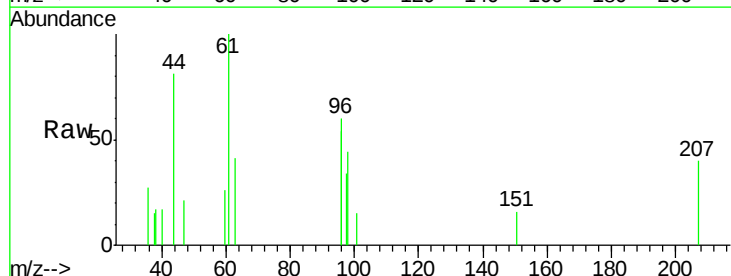
Abundance Ion 59.00 (58.70 to 59.70): VW
Ion 57.00 (56.70 to 57.70): VW



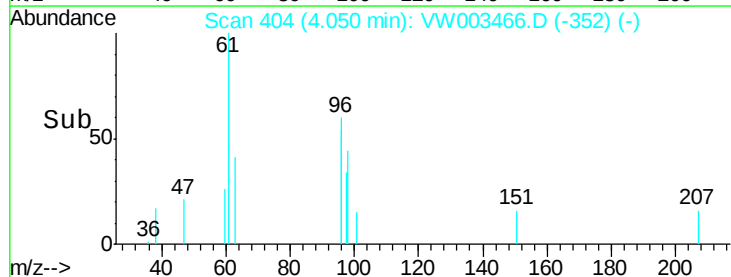
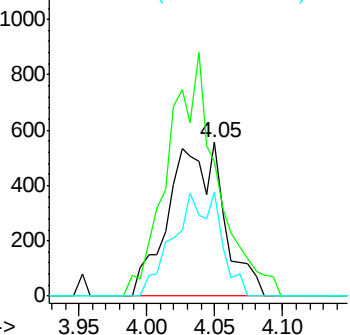
#12

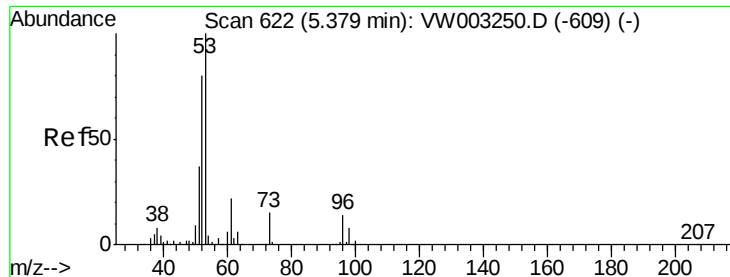
1,1-Dichloroethene
Concen: 1.110 ug/l
RT: 4.05 min Scan# 404
Delta R.T. 0.02 min
Lab File: VW003466.D
Acq: 23 Jun 2018 17:45

Tgt Ion: 96 Resp: 1547
Ion Ratio Lower Upper
96 100
61 87.9 139.0 208.4#
98 68.0 53.3 79.9



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





#15

Acrylonitrile

Concen: 1.366 ug/l

RT: 5.38 min Scan# 622

Delta R.T. 0.00 min

Lab File: VW003466.D

Acq: 23 Jun 2018 17:45

Instrument :

MSVOA_W

ClientSampleId :

WP021SB476-27-29-180619

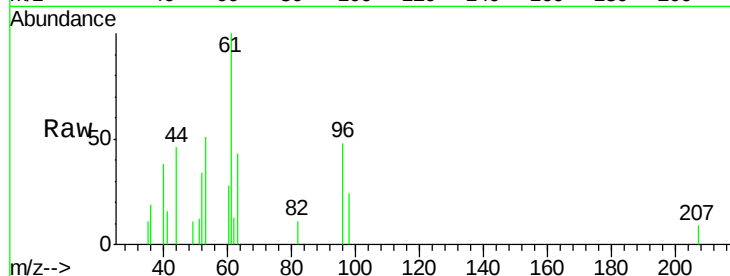
Tgt Ion: 53 Resp: 424

Ion Ratio Lower Upper

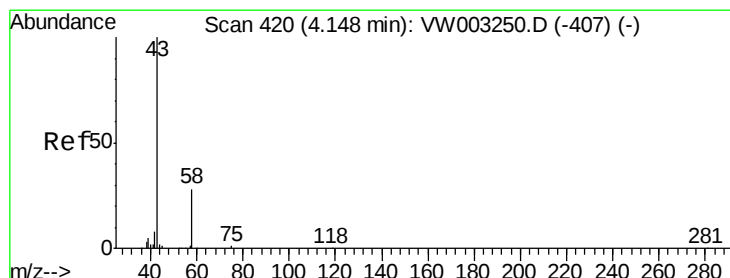
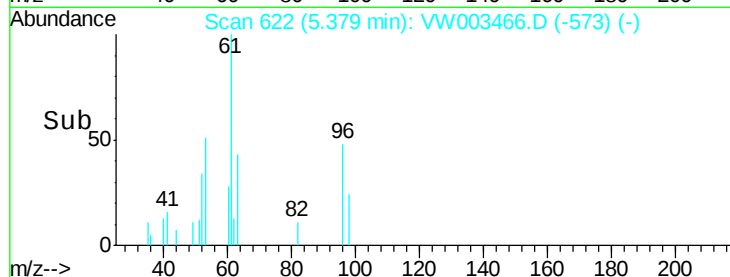
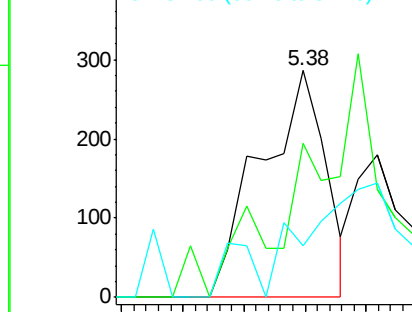
53 100

52 0.0 66.6 100.0#

51 0.0 30.6 46.0#



Abundance Ion 53.00 (52.70 to 53.70): VW
Ion 52.00 (51.70 to 52.70): VW
Ion 51.00 (50.70 to 51.70): VW



#16

Acetone

Concen: 32.236 ug/l

RT: 4.16 min Scan# 422

Delta R.T. 0.01 min

Lab File: VW003466.D

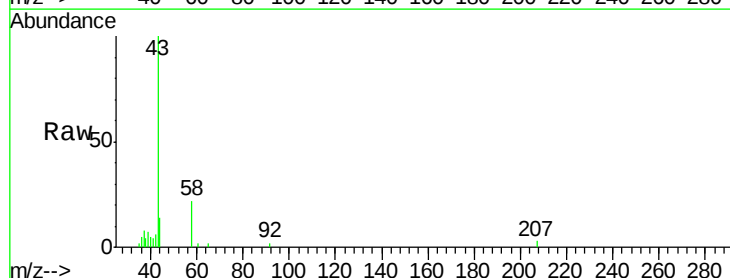
Acq: 23 Jun 2018 17:45

Tgt Ion: 43 Resp: 11270

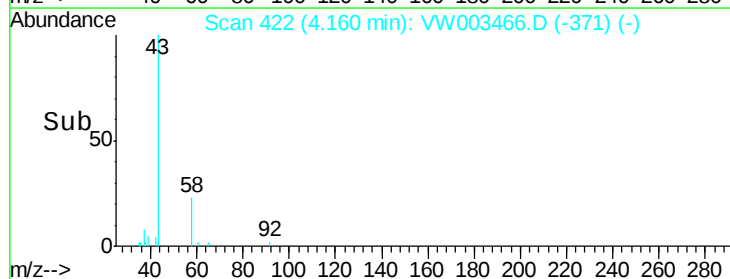
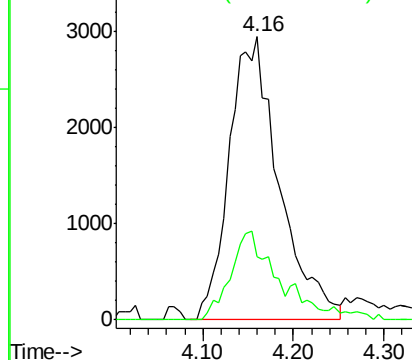
Ion Ratio Lower Upper

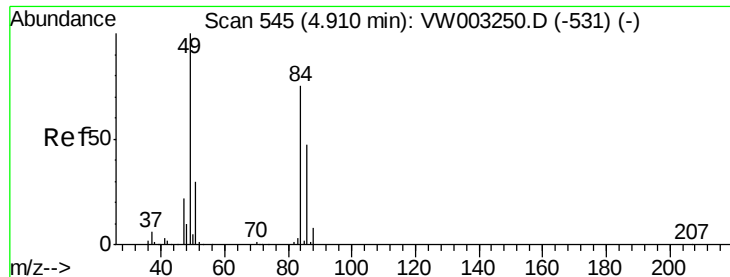
43 100

58 22.4 22.6 34.0#



Abundance Ion 43.00 (42.70 to 43.70): VW
Ion 58.00 (57.70 to 58.70): VW

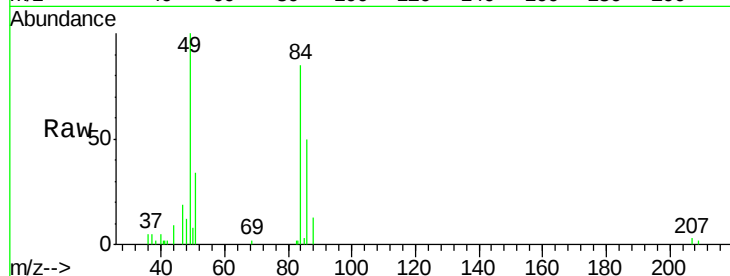




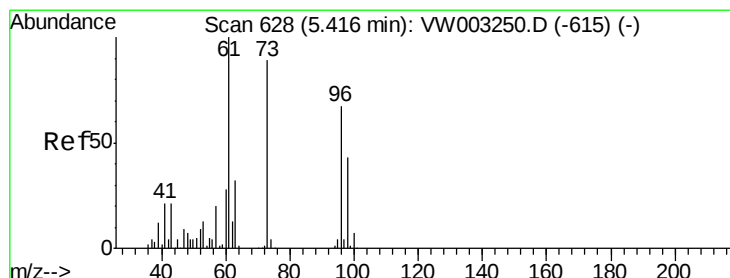
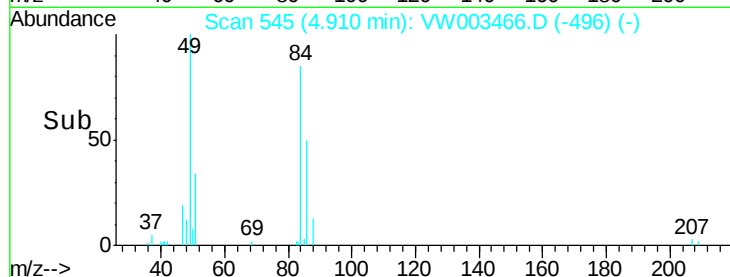
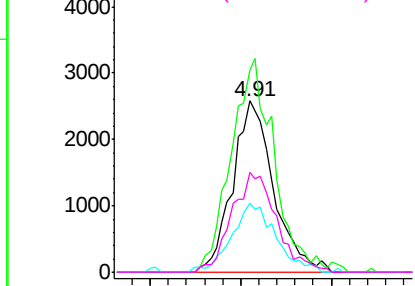
#20
Methylene Chloride
Concen: 1.962 ug/l
RT: 4.91 min Scan# 545
Delta R.T. 0.00 min
Lab File: VW003466.D
Acq: 23 Jun 2018 17:45

Instrument :
MSVOA_W
ClientSampleId :
WP021SB476-27-29-180619

Tgt Ion:	84	Resp:	8151
Ion	Ratio	Lower	Upper
84	100		
49	117.9	106.3	159.5
51	40.3	32.0	48.0
86	58.6	49.9	74.9

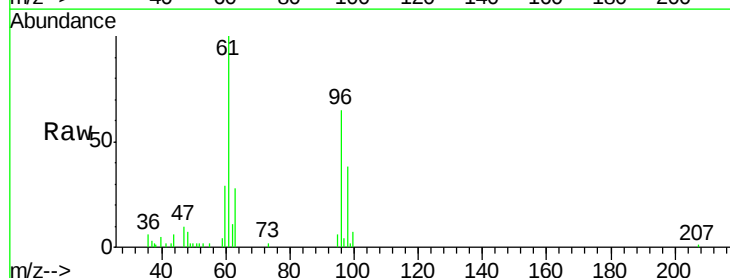


Abundance Ion 83.90 (83.60 to 84.60): VW
Ion 48.90 (48.60 to 49.60): VW
Ion 50.90 (50.60 to 51.60): VW
Ion 85.90 (85.60 to 86.60): VW

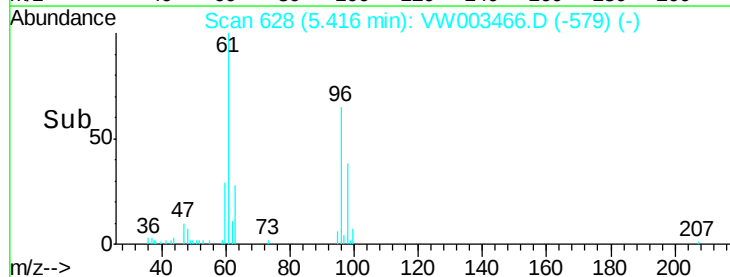
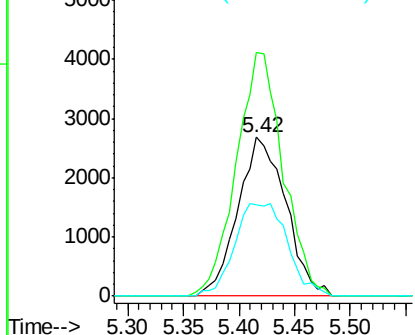


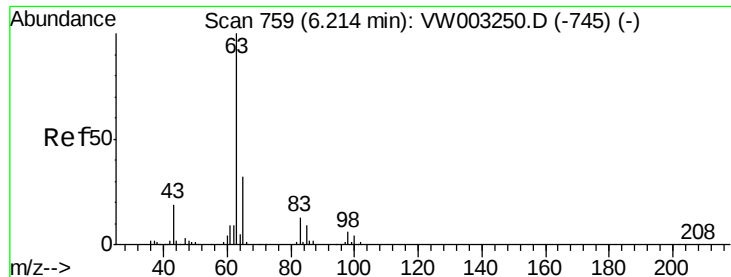
#21
trans-1,2-Dichloroethene
Concen: 5.295 ug/l
RT: 5.42 min Scan# 628
Delta R.T. 0.00 min
Lab File: VW003466.D
Acq: 23 Jun 2018 17:45

Tgt Ion:	96	Resp:	8029
Ion	Ratio	Lower	Upper
96	100		
61	153.2	118.7	178.1
98	57.7	51.0	76.6



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





#24

1,1-Dichloroethane

Concen: 1.481 ug/l

RT: 6.21 min Scan# 758

Delta R.T. -0.01 min

Lab File: VW003466.D

Acq: 23 Jun 2018 17:45

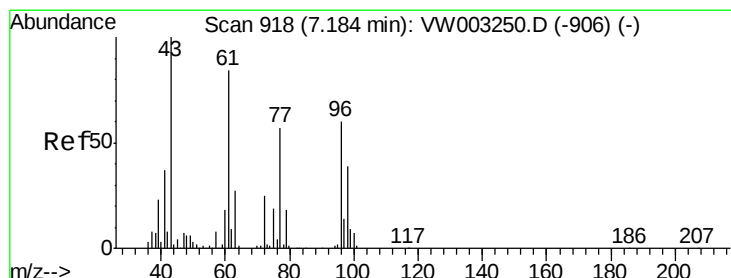
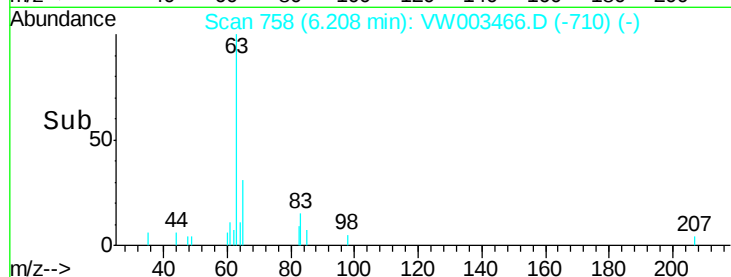
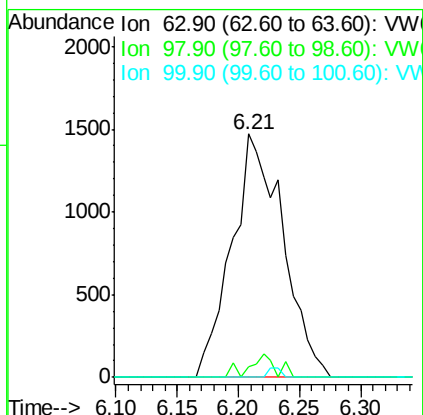
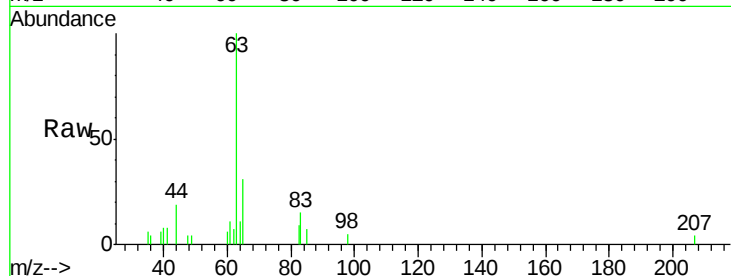
Instrument :

MSVOA_W

ClientSampleId :

WP021SB476-27-29-180619

Tgt Ion:	63	Resp:	4269
Ion	Ratio	Lower	Upper
63	100		
98	4.6	2.8	8.3
100	0.0	2.1	6.5#



#25

2-Butanone

Concen: 2.535 ug/l

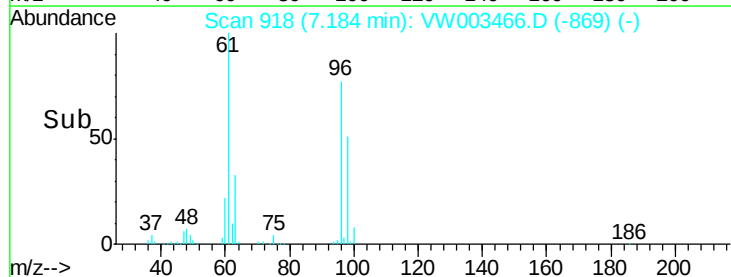
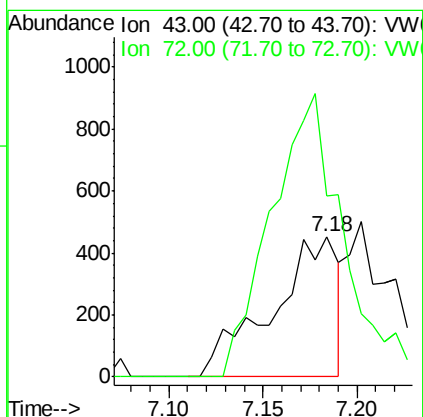
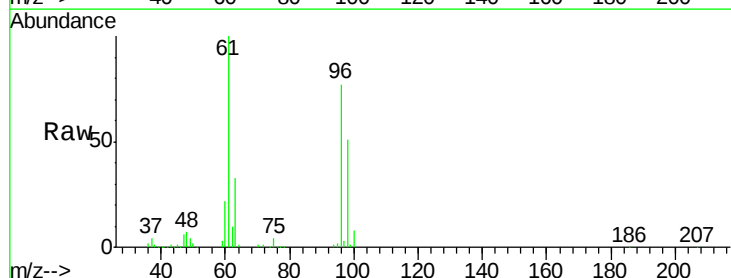
RT: 7.18 min Scan# 918

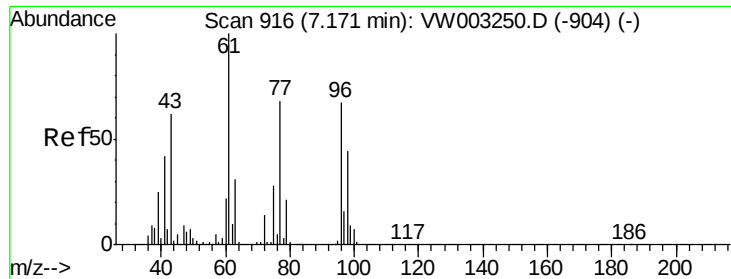
Delta R.T. 0.00 min

Lab File: VW003466.D

Acq: 23 Jun 2018 17:45

Tgt Ion:	43	Resp:	1102
Ion	Ratio	Lower	Upper
43	100		
72	129.0	20.3	30.5#



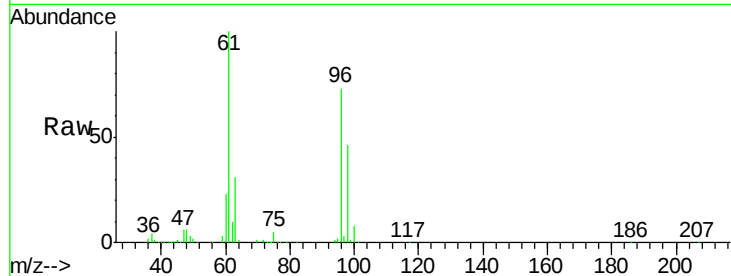


#27

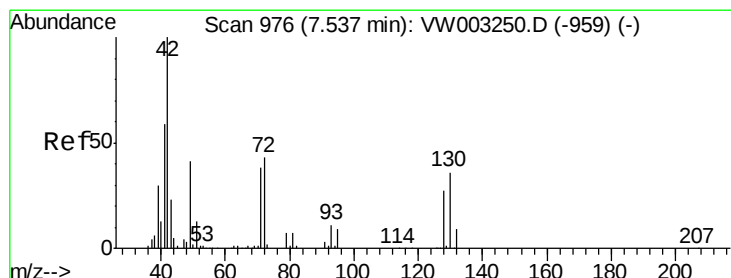
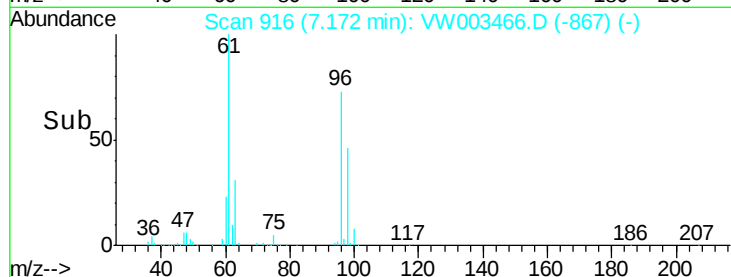
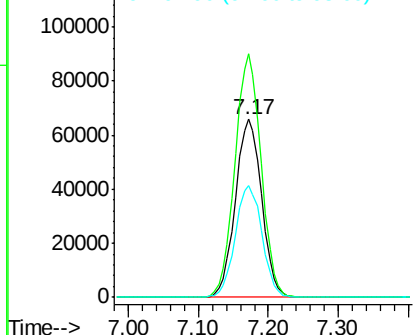
cis-1,2-Dichloroethene
Concen: 103.200 ug/l
RT: 7.17 min Scan# 916
Delta R.T. 0.00 min
Lab File: VW003466.D
Acq: 23 Jun 2018 17:45

Instrument :
MSVOA_W
ClientSampleId :
WP021SB476-27-29-180619

Tgt Ion: 96 Resp: 171889
Ion Ratio Lower Upper
96 100
61 135.9 0.0 298.8
98 64.0 0.0 130.4



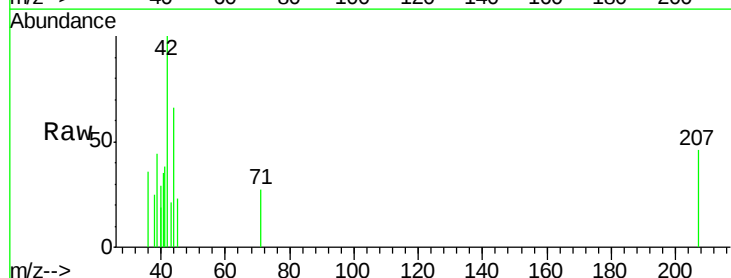
Abundance Ion 95.90 (95.60 to 96.60): VW
Ion 60.90 (60.60 to 61.60): VW
Ion 97.90 (97.60 to 98.60): VW



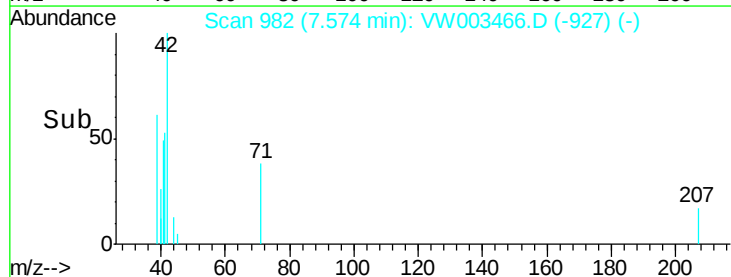
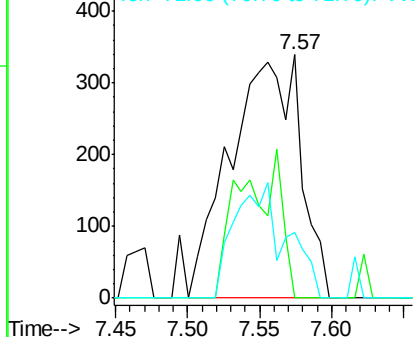
#29

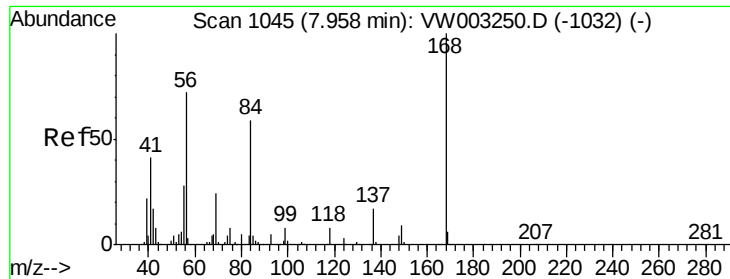
Tetrahydrofuran
Concen: 4.268 ug/l
RT: 7.57 min Scan# 982
Delta R.T. 0.04 min
Lab File: VW003466.D
Acq: 23 Jun 2018 17:45

Tgt Ion: 42 Resp: 1134
Ion Ratio Lower Upper
42 100
72 35.6 32.4 48.6
71 28.5 31.2 46.8#



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

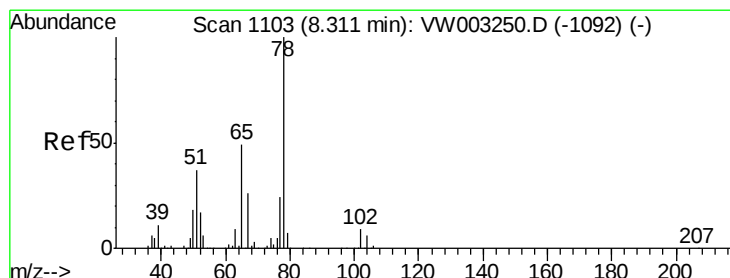
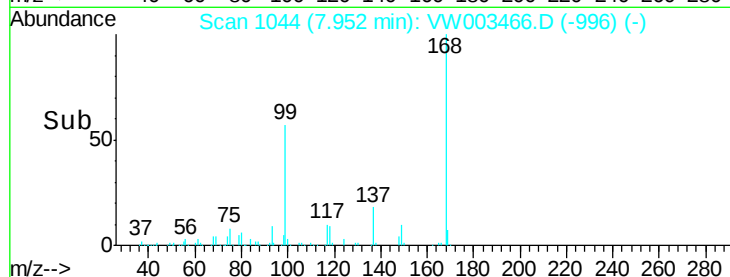
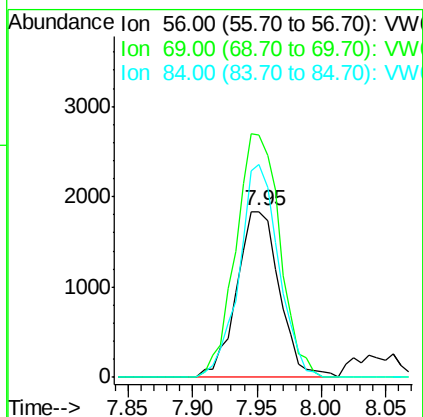
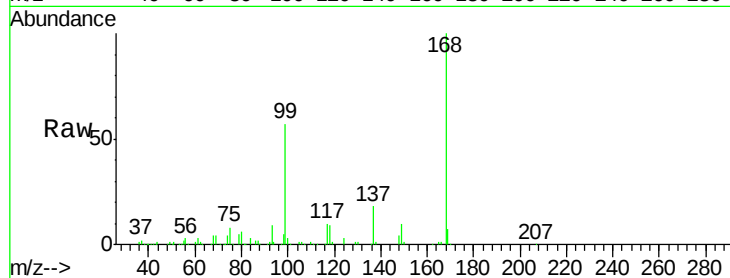




#31
Cyclohexane
Concen: 1.567 ug/l
RT: 7.95 min Scan# 1044
Delta R.T. -0.01 min
Lab File: VW003466.D
Acq: 23 Jun 2018 17:45

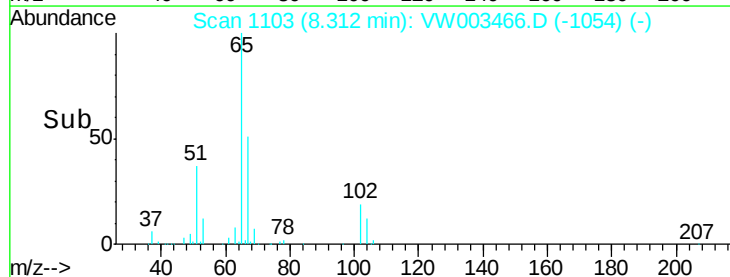
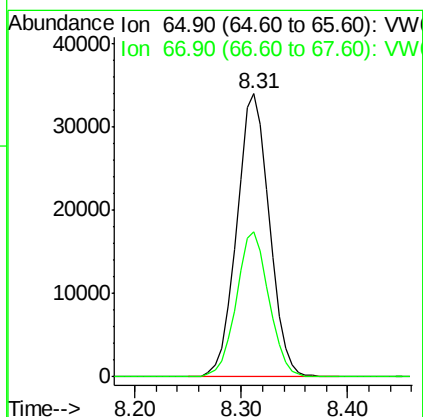
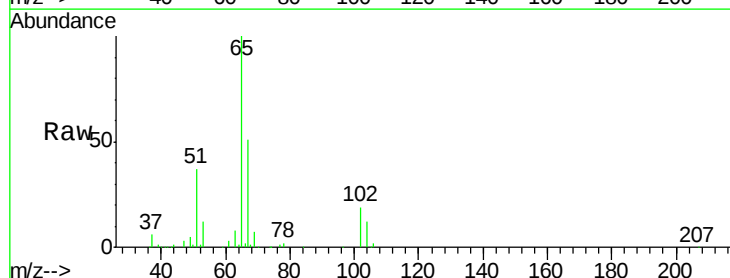
Instrument :
MSVOA_W
ClientSampleId :
WP021SB476-27-29-180619

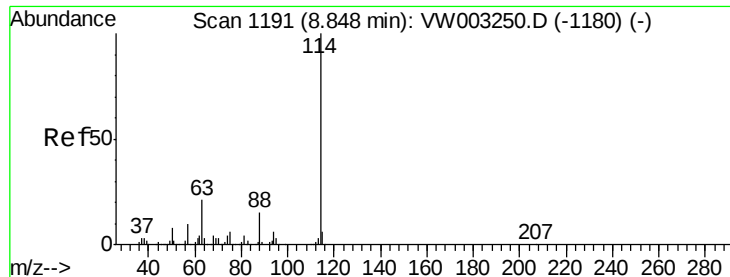
Tgt Ion: 56 Resp: 4220
Ion Ratio Lower Upper
56 100
69 146.0 26.3 39.5#
84 128.3 65.7 98.5#



#33
1,2-Dichloroethane-d4
Concen: 43.898 ug/l
RT: 8.31 min Scan# 1103
Delta R.T. 0.00 min
Lab File: VW003466.D
Acq: 23 Jun 2018 17:45

Tgt Ion: 65 Resp: 73176
Ion Ratio Lower Upper
65 100
67 51.2 0.0 104.2

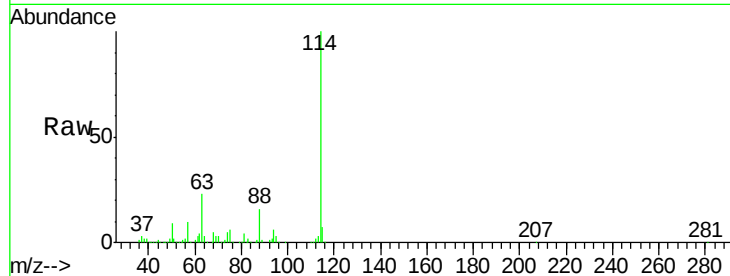




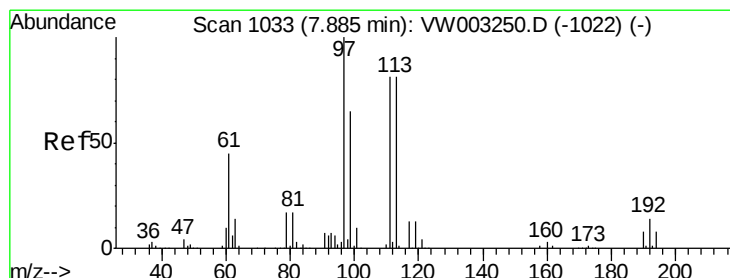
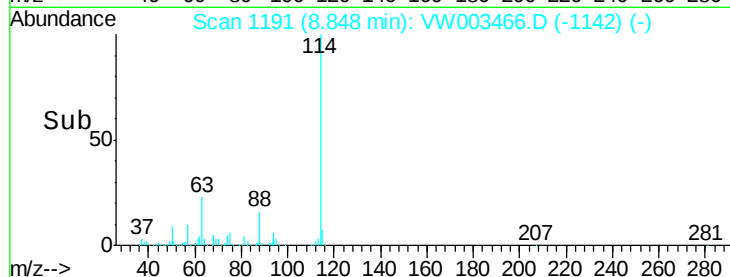
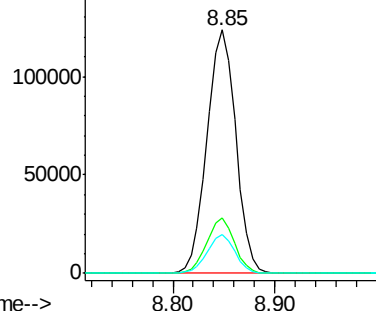
#34
 1,4-Difluorobenzene
 Concen: 50.000 ug/l
 RT: 8.85 min Scan# 1191
 Delta R.T. 0.00 min
 Lab File: VW003466.D
 Acq: 23 Jun 2018 17:45

Instrument :
 MSVOA_W
 ClientSampleId :
 WP021SB476-27-29-180619

Tgt Ion:114 Resp: 242051
 Ion Ratio Lower Upper
 114 100
 63 22.6 0.0 43.0
 88 16.0 0.0 29.6

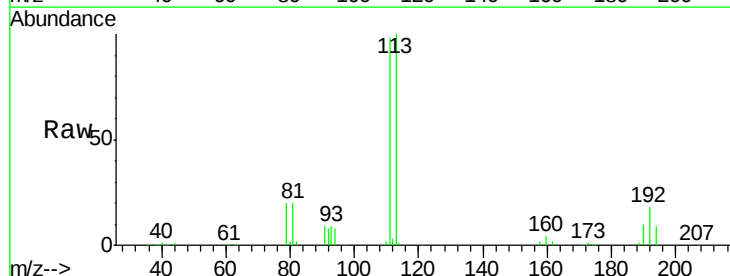


Abundance Ion 113.90 (113.60 to 114.60): V
 Ion 63.00 (62.70 to 63.70): VW
 Ion 87.90 (87.60 to 88.60): VW

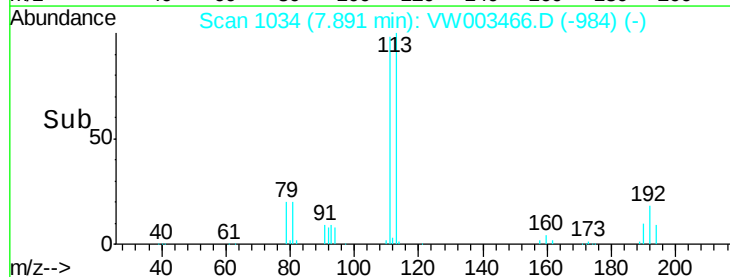
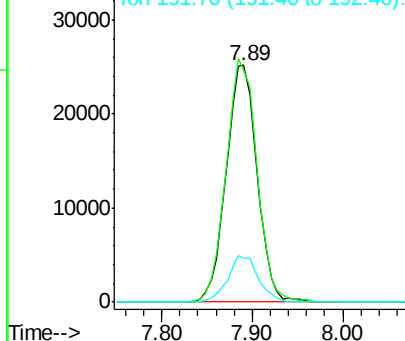


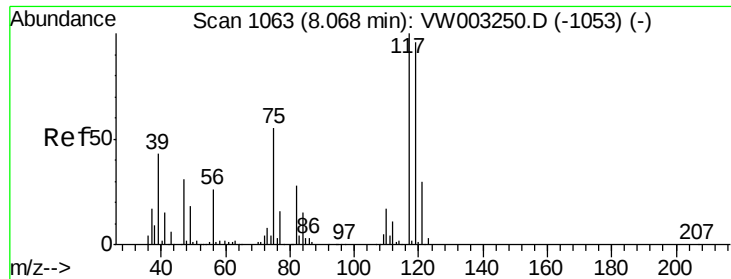
#35
 Dibromofluoromethane
 Concen: 40.030 ug/l
 RT: 7.89 min Scan# 1034
 Delta R.T. 0.01 min
 Lab File: VW003466.D
 Acq: 23 Jun 2018 17:45

Tgt Ion:113 Resp: 60207
 Ion Ratio Lower Upper
 113 100
 111 102.6 82.2 123.2
 192 19.2 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





#38

Carbon Tetrachloride

Concen: 6.647 ug/l

RT: 7.95 min Scan# 1044

Delta R.T. -0.12 min

Lab File: VW003466.D

Acq: 23 Jun 2018 17:45

Instrument :

MSVOA_W

ClientSampleId :

WP021SB476-27-29-180619

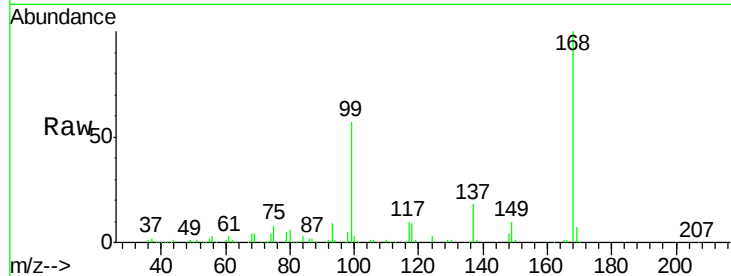
Tgt Ion:117 Resp: 15242

Ion Ratio Lower Upper

117 100

119 8.4 76.6 115.0#

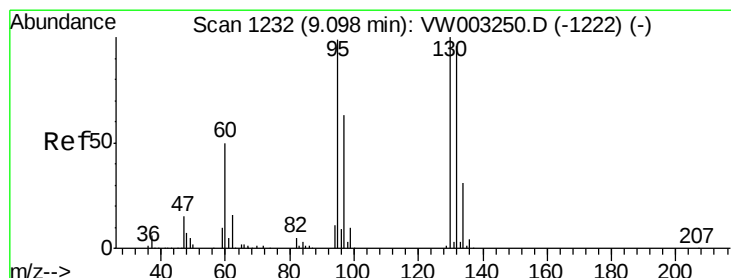
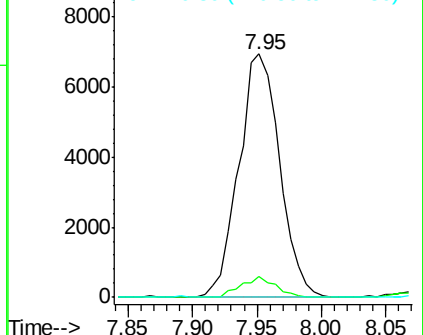
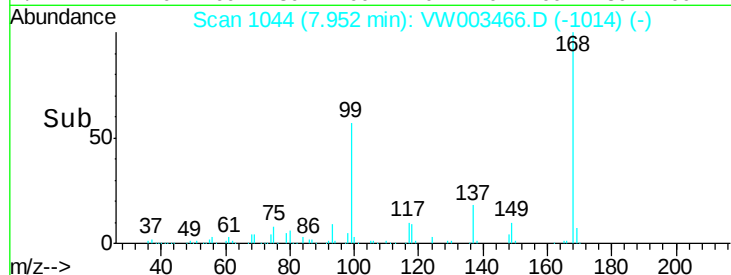
121 0.0 23.9 35.9#



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



#44

Trichloroethene

Concen: 5.889 ug/l

RT: 9.09 min Scan# 1231

Delta R.T. -0.01 min

Lab File: VW003466.D

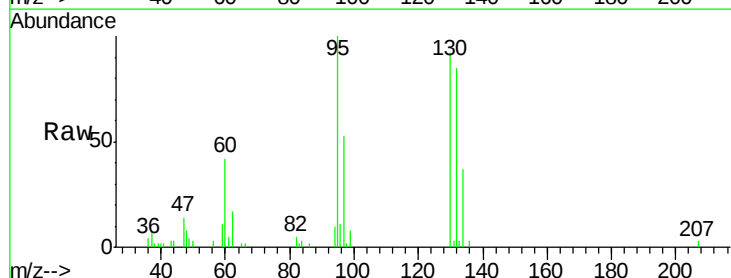
Acq: 23 Jun 2018 17:45

Tgt Ion:130 Resp: 10055

Ion Ratio Lower Upper

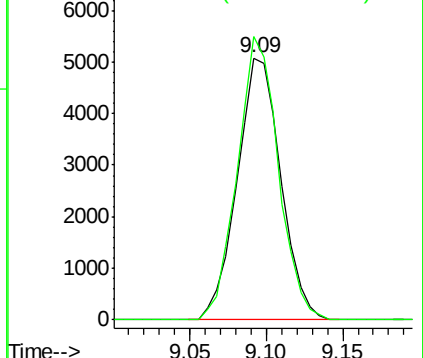
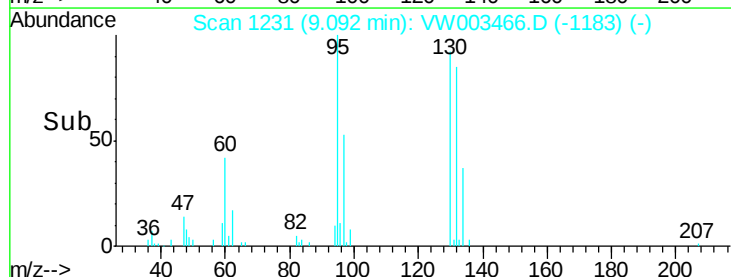
130 100

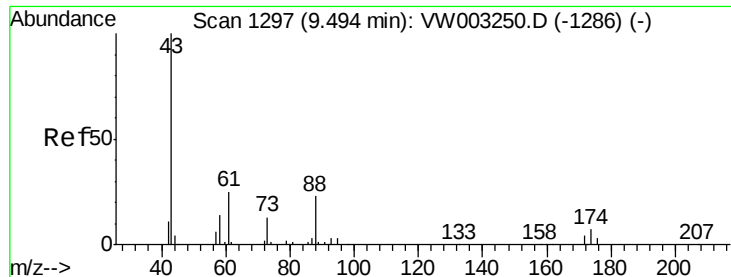
95 108.1 0.0 198.0



Abundance Ion 129.80 (129.50 to 130.50): V

Ion 94.90 (94.60 to 95.60): VV

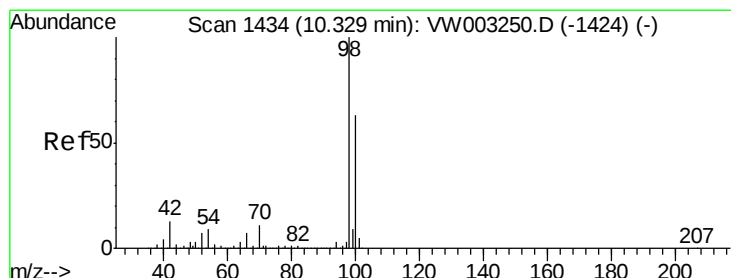
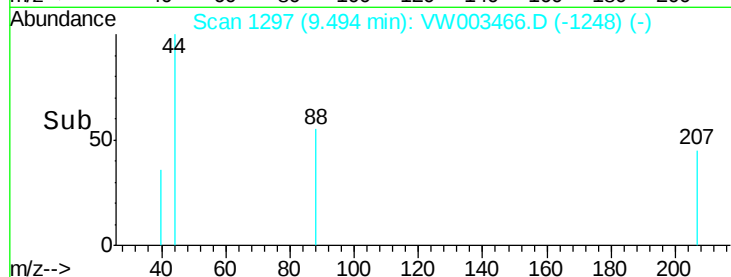
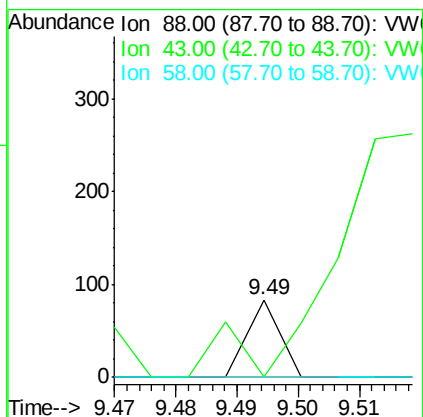
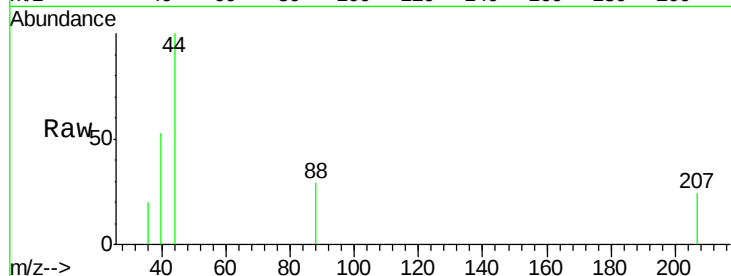




#49
1,4-Dioxane
Concen: 2.366 ug/l
RT: 9.49 min Scan# 1297
Delta R.T. 0.00 min
Lab File: VW003466.D
Acq: 23 Jun 2018 17:45

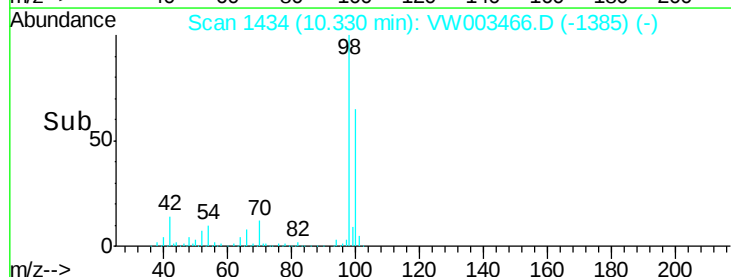
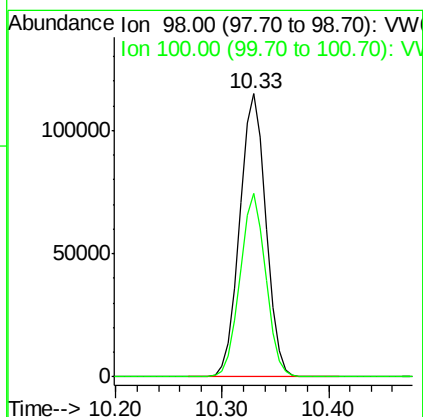
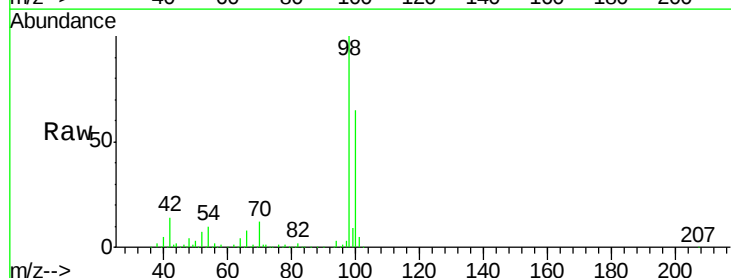
Instrument :
MSVOA_W
ClientSampleId :
WP021SB476-27-29-180619

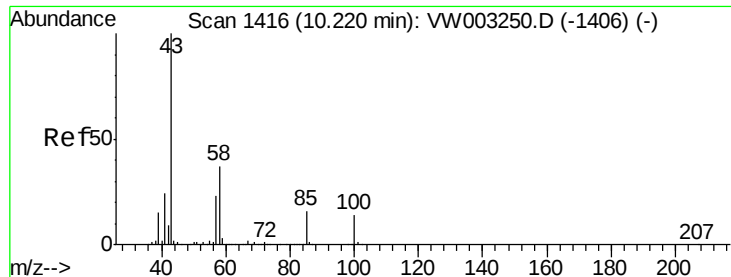
Tgt Ion: 88 Resp: 30
Ion Ratio Lower Upper
88 100
43 0.0 454.7 682.1#
58 0.0 58.6 88.0#



#50
Toluene-d8
Concen: 33.501 ug/l
RT: 10.33 min Scan# 1434
Delta R.T. 0.00 min
Lab File: VW003466.D
Acq: 23 Jun 2018 17:45

Tgt Ion: 98 Resp: 199791
Ion Ratio Lower Upper
98 100
100 63.2 50.8 76.2

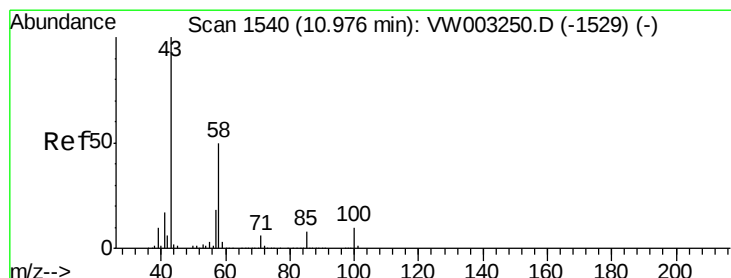
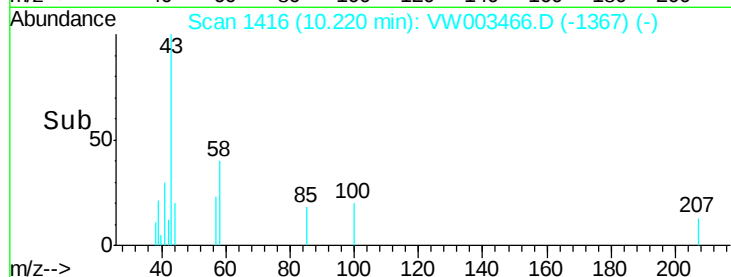
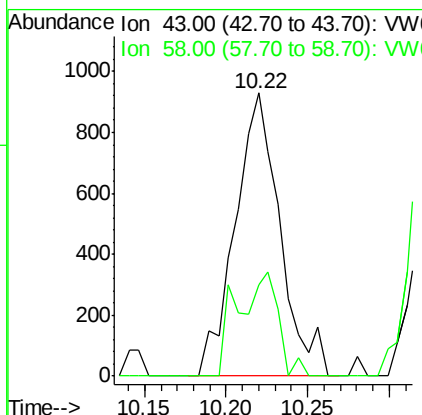
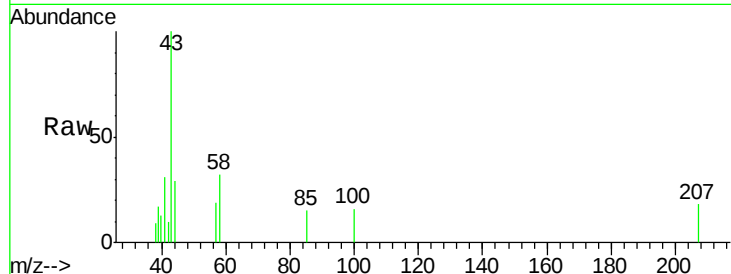




#51
 4-Methyl-2-Pentanone
 Concen: 1.818 ug/l
 RT: 10.22 min Scan# 1416
 Delta R.T. 0.00 min
 Lab File: VW003466.D
 Acq: 23 Jun 2018 17:45

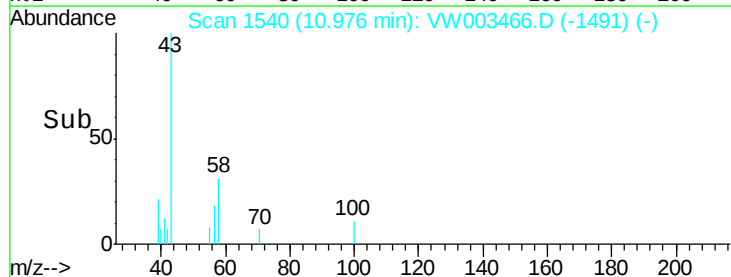
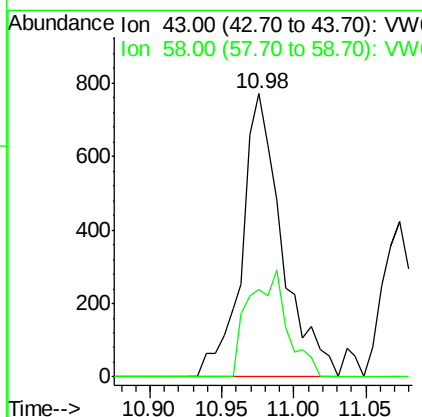
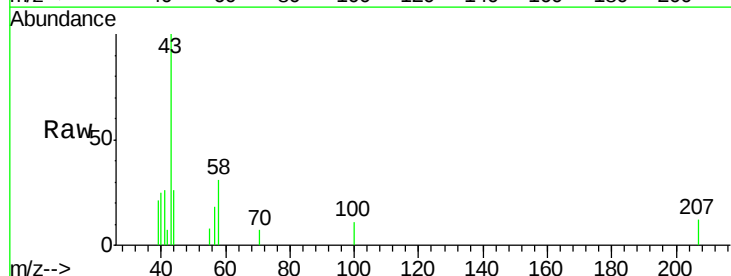
Instrument :
 MSVOA_W
 ClientSampleId :
 WP021SB476-27-29-180619

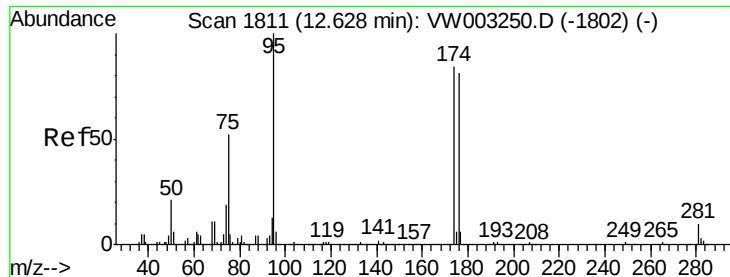
Tgt Ion: 43 Resp: 1781
 Ion Ratio Lower Upper
 43 100
 58 33.5 29.0 43.4



#59
 2-Hexanone
 Concen: 2.172 ug/l
 RT: 10.98 min Scan# 1540
 Delta R.T. 0.00 min
 Lab File: VW003466.D
 Acq: 23 Jun 2018 17:45

Tgt Ion: 43 Resp: 1487
 Ion Ratio Lower Upper
 43 100
 58 36.2 25.0 75.0





#62

4-Bromofluorobenzene

Concen: 32.822 ug/l

RT: 12.63 min Scan# 1811

Delta R.T. 0.00 min

Lab File: VW003466.D

Acq: 23 Jun 2018 17:45

Instrument :

MSVOA_W

ClientSampleId :

WP021SB476-27-29-180619

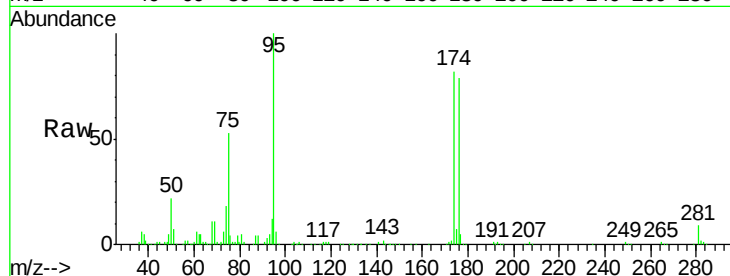
Tgt Ion: 95 Resp: 69273

Ion Ratio Lower Upper

95 100

174 81.1 0.0 166.4

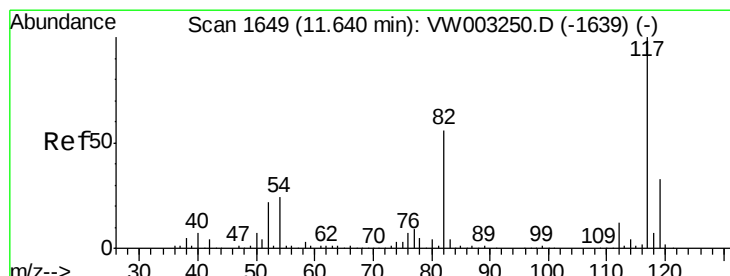
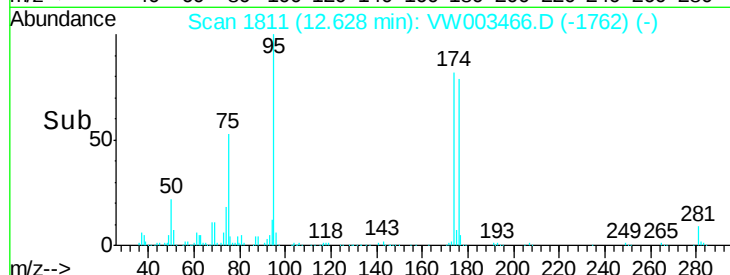
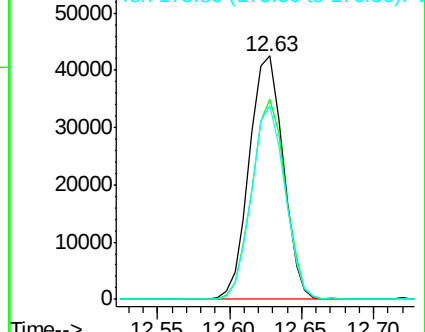
176 78.3 0.0 162.0



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# 1648

Delta R.T. -0.01 min

Lab File: VW003466.D

Acq: 23 Jun 2018 17:45

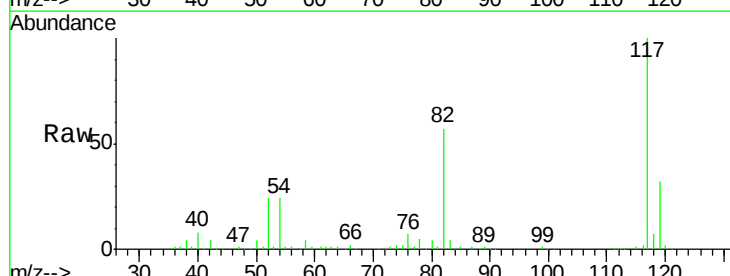
Tgt Ion: 117 Resp: 221872

Ion Ratio Lower Upper

117 100

82 56.5 44.6 67.0

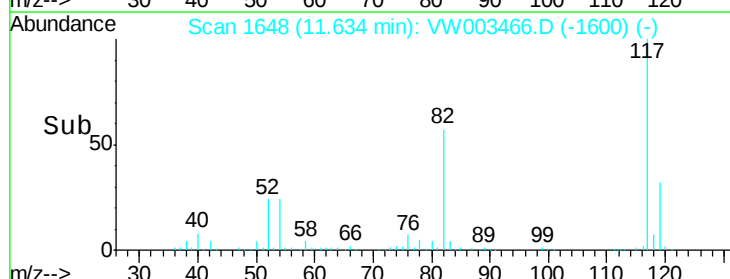
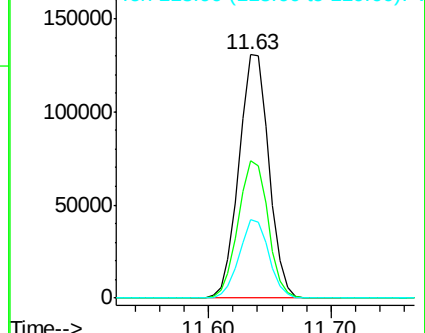
119 32.1 26.7 40.1

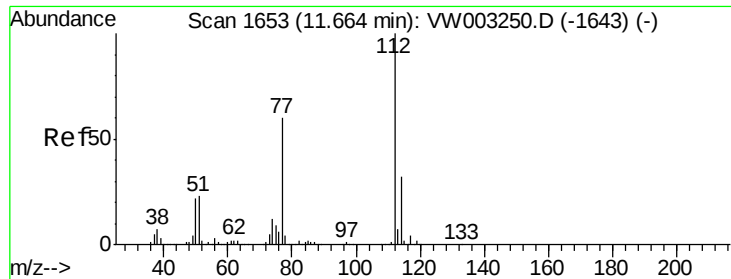


Abundance Ion 116.90 (116.60 to 117.60): VW

Ion 82.00 (81.70 to 82.70): VW

Ion 118.90 (118.60 to 119.60): VW





#65

Chlorobenzene

Concen: 1.403 ug/l

RT: 11.66 min Scan# 1653

Delta R.T. 0.00 min

Lab File: VW003466.D

Acq: 23 Jun 2018 17:45

Instrument :

MSVOA_W

ClientSampleId :

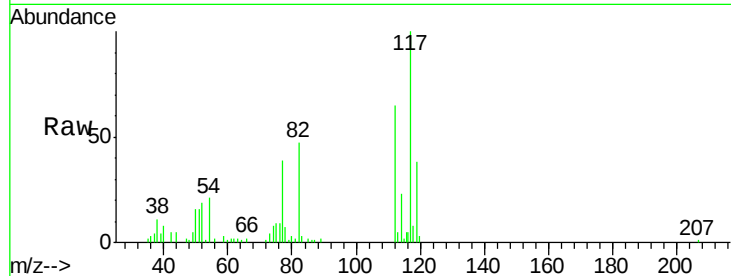
WP021SB476-27-29-180619

Tgt Ion:112 Resp: 6481

Ion Ratio Lower Upper

112 100

114 34.5 25.9 38.9



Abundance Ion 111.90 (111.60 to 112.60): V

Ion 113.90 (113.60 to 114.60): V

4000

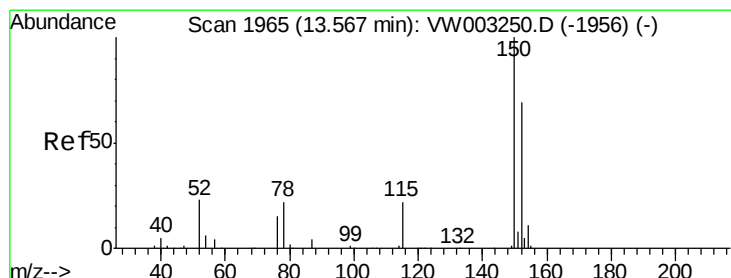
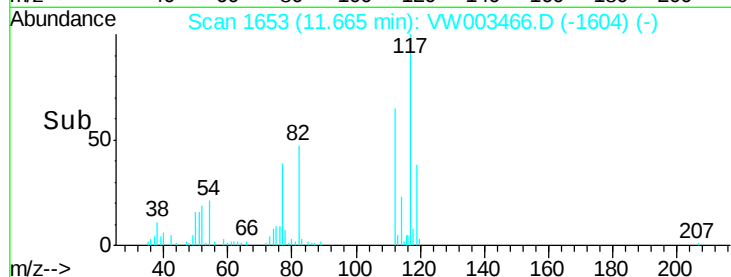
3000

2000

1000

0

Time--> 11.60 11.65 11.70



#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

RT: 13.57 min Scan# 1965

Delta R.T. 0.00 min

Lab File: VW003466.D

Acq: 23 Jun 2018 17:45

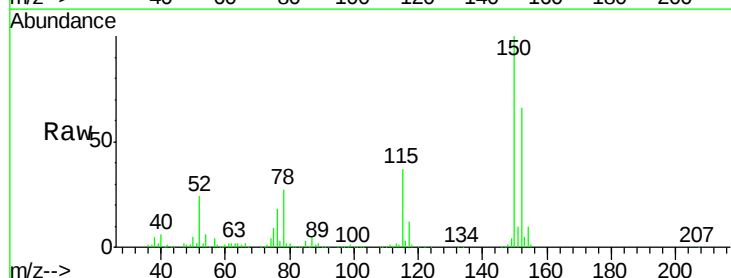
Tgt Ion:152 Resp: 109294

Ion Ratio Lower Upper

152 100

115 58.2 29.3 88.0

150 154.9 0.0 349.6



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

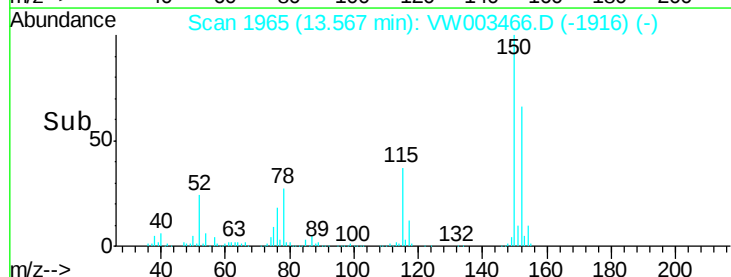
150000

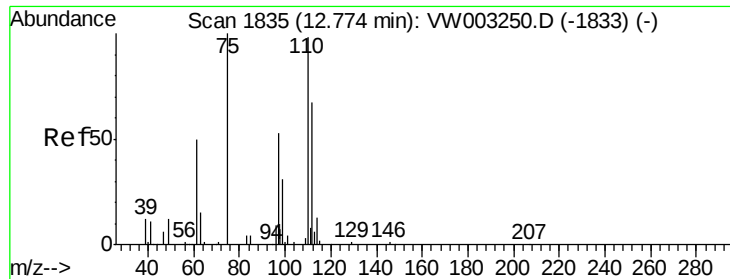
100000

50000

0

Time--> 13.50 13.55 13.60





#76

1,2,3-Trichloropropane

Concen: 40.972 ug/l

RT: 12.62 min Scan# 1810

Delta R.T. -0.15 min

Lab File: VW003466.D

Acq: 23 Jun 2018 17:45

Instrument :

MSVOA_W

ClientSampleId :

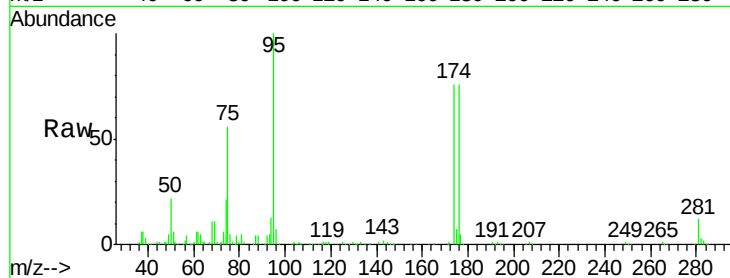
WP021SB476-27-29-180619

Tgt Ion: 75 Resp: 38282

Ion Ratio Lower Upper

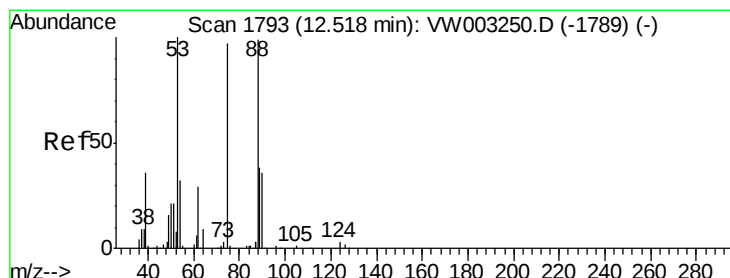
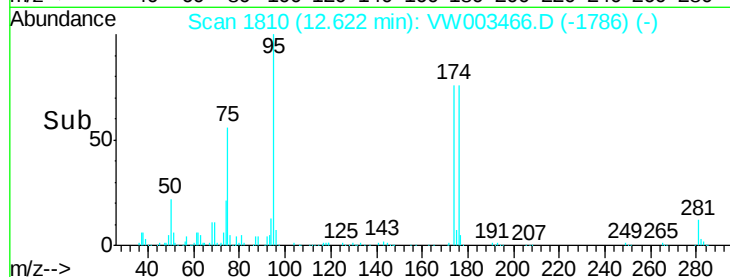
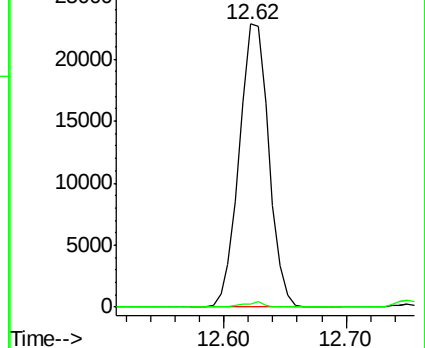
75 100

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: 94.280 ug/l

RT: 12.62 min Scan# 1810

Delta R.T. 0.10 min

Lab File: VW003466.D

Acq: 23 Jun 2018 17:45

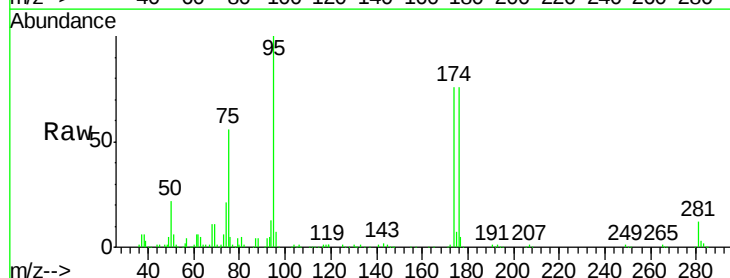
Tgt Ion: 75 Resp: 38282

Ion Ratio Lower Upper

75 100

53 0.1 82.9 124.3#

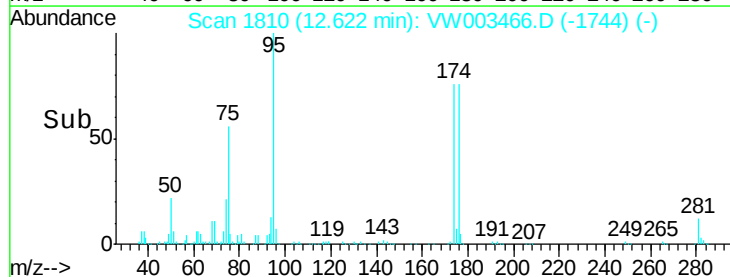
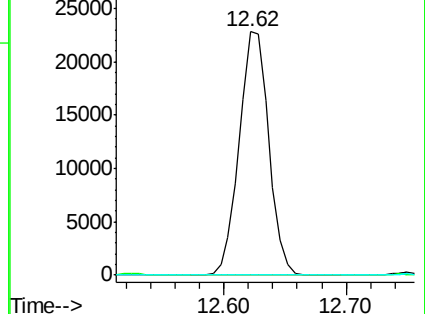
89 0.0 36.7 55.1#

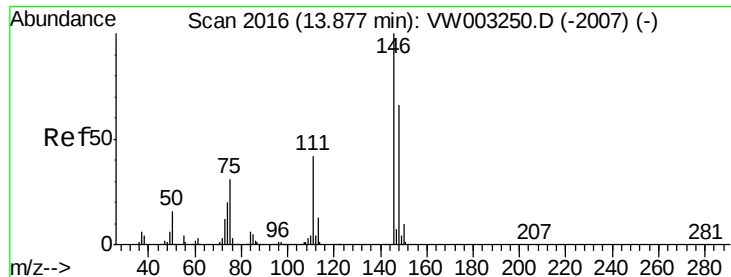


Abundance Ion 74.90 (74.60 to 75.60): VW

Ion 53.00 (52.70 to 53.70): VW

Ion 88.90 (88.60 to 89.60): VW

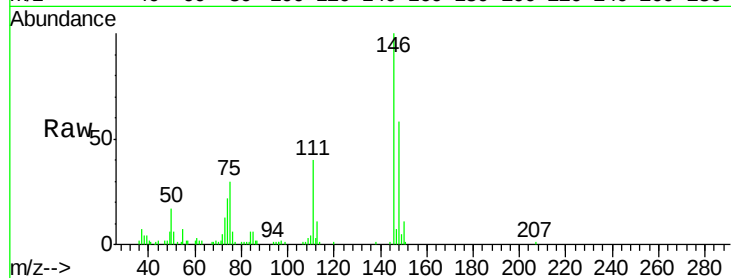




#91
 1,2-Dichlorobenzene
 Concen: 5.414 ug/l
 RT: 13.88 min Scan# 2016
 Delta R.T. 0.00 min
 Lab File: VW003466.D
 Acq: 23 Jun 2018 17:45

Instrument :
 MSVOA_W
 ClientSampleId :
 WP021SB476-27-29-180619

Tgt Ion	Ratio	Lower	Upper
146	100		
111	41.2	20.3	61.0
148	62.5	32.3	96.9



Abundance

Ion 145.90 (145.60 to 146.60): V

Ion 110.90 (110.60 to 111.60): V

Ion 147.90 (147.60 to 148.60): V

