

Data File : VW010406.D
Acq On : 12 May 2019 14:15
Operator : SY/VA
Sample : K2718-20
Misc : 6.18G/5ML/MSVOA_W/SOIL
ALS Vial : 10 Sample Multiplier: 1

Instrument :
MSVOA_W
ClientSampleId :
P026-SS007-1824-01

Quant Time: May 13 05:23:39 2019
Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_W\METHOD\82W050919S.M
Quant Title : SW846 8260
QLast Update : Fri May 10 03:41:21 2019
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	7.95	168	251777	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	8.84	114	565153	50.00	ug/l	0.00
63) Chlorobenzene-d5	11.63	117	391120	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.56	152	95592	50.00	ug/l	0.00

System Monitoring Compounds

33) 1,2-Dichloroethane-d4	8.31	65	397104	148.35	ug/l	0.00
Spiked Amount	50.000		Recovery	=	296.70%	
35) Dibromofluoromethane	7.88	113	291328	88.09	ug/l	0.00
Spiked Amount	50.000		Recovery	=	176.18%	
50) Toluene-d8	10.32	98	356079	26.44	ug/l	0.00
Spiked Amount	50.000		Recovery	=	52.88%	
62) 4-Bromofluorobenzene	12.62	95	96492	20.35	ug/l	0.00
Spiked Amount	50.000		Recovery	=	40.70%	

Target Compounds

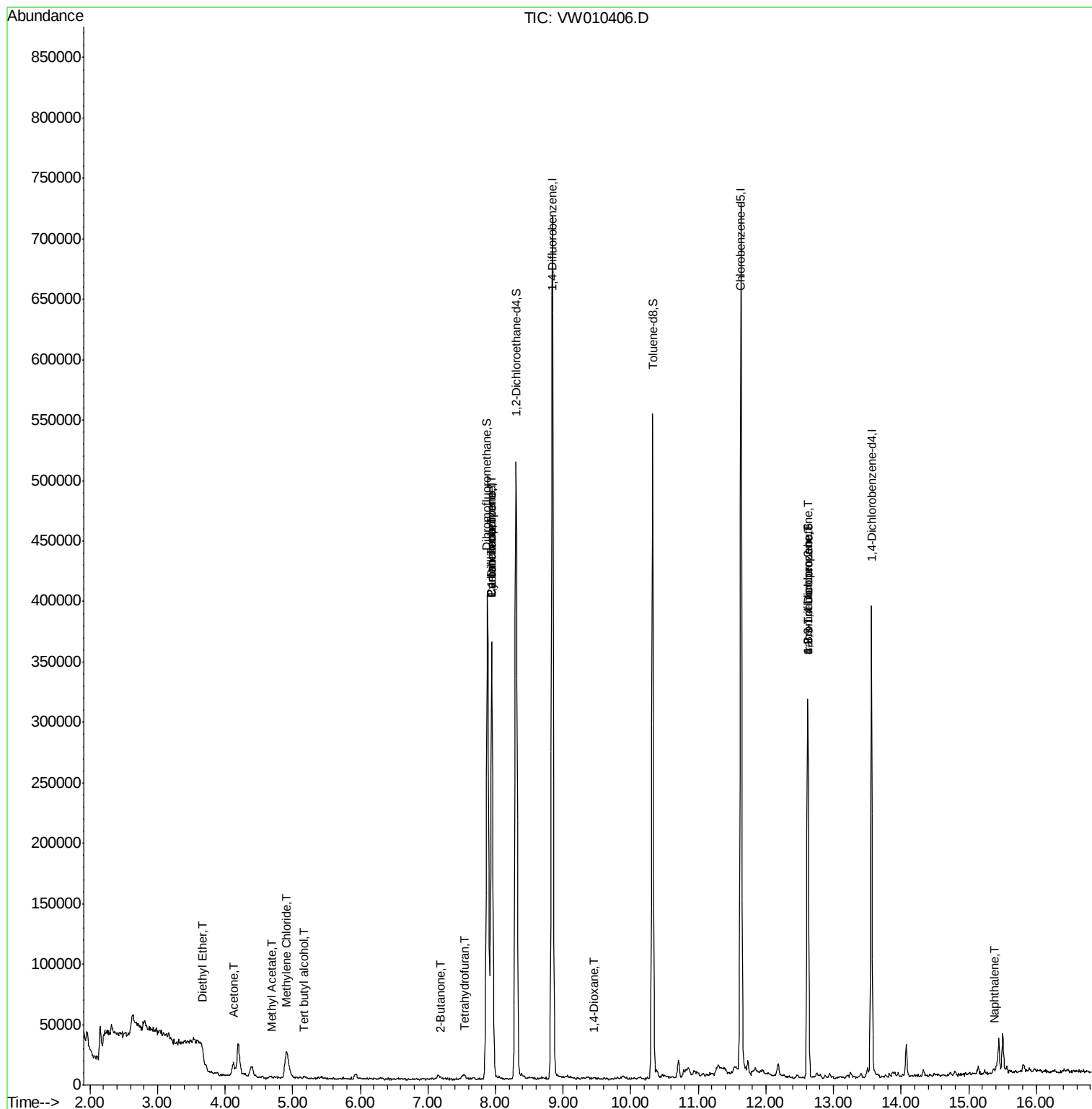
						Qvalue
8) Diethyl Ether	3.67	74	4247	3.013	ug/l	88
11) Tert butyl alcohol	5.17	59	1991	10.533	ug/l #	93
16) Acetone	4.12	43	20593	29.511	ug/l	99
18) Methyl Acetate	4.68	43	4138	2.394	ug/l #	55
20) Methylene Chloride	4.90	84	20604	7.079	ug/l #	78
25) 2-Butanone	7.19	43	1415	1.326	ug/l	98
29) Tetrahydrofuran	7.54	42	2598	3.763	ug/l #	88
31) Cyclohexane	7.95	56	7010	1.279	ug/l #	25
36) 1,1-Dichloropropene	7.95	75	22126	3.611	ug/l #	52
38) Carbon Tetrachloride	7.95	117	25847	4.921	ug/l #	20
49) 1,4-Dioxane	9.46	88	334	8.887	ug/l #	54
76) 1,2,3-Trichloropropane	12.62	75	50994	45.754	ug/l #	100
81) trans-1,4-Dichloro-2-buten	12.62	75	50994	103.327	ug/l #	6
95) Naphthalene	15.37	128	3756	4.398	ug/l #	91

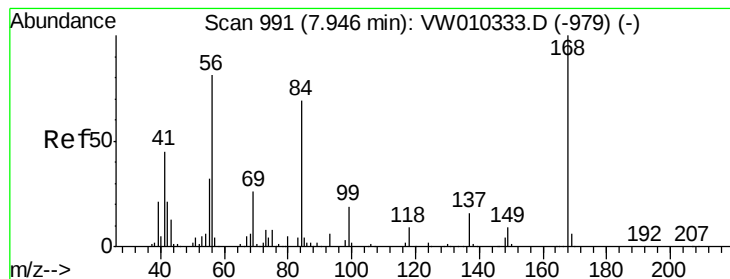
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 7.95 min Scan# 991

Delta R.T. -0.00 min

Lab File: VW010406.D

Acq: 12 May 2019 14:15

Instrument :

MSVOA_W

ClientSampleId :

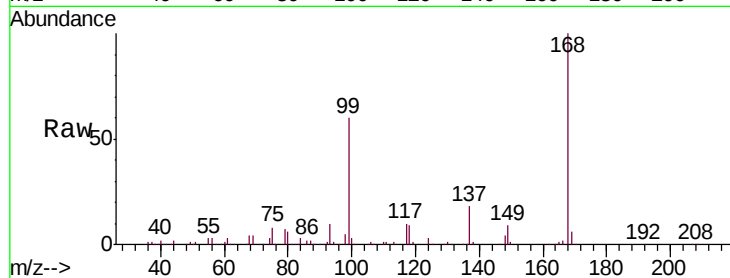
P026-SS007-1824-01

Tgt Ion:168 Resp: 251777

Ion Ratio Lower Upper

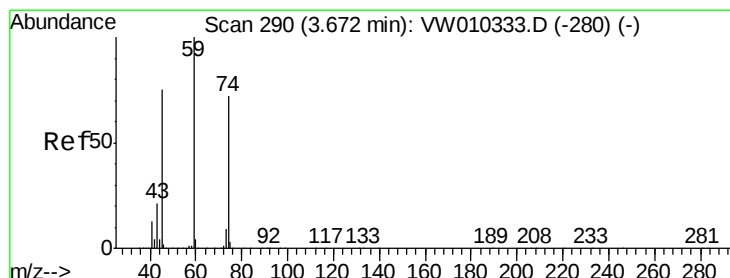
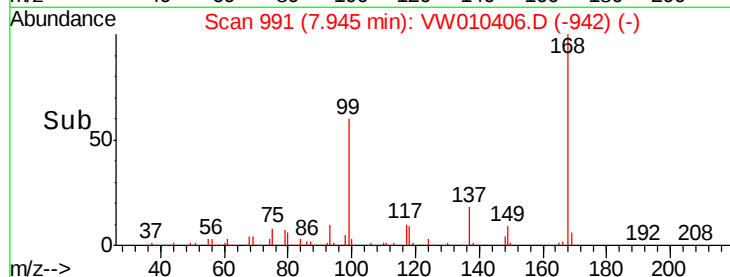
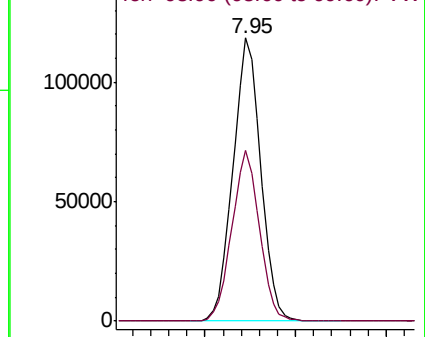
168 100

99 60.1 48.4 72.6



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VW



#8

Diethyl Ether

Concen: 3.013 ug/l

RT: 3.67 min Scan# 289

Delta R.T. -0.01 min

Lab File: VW010406.D

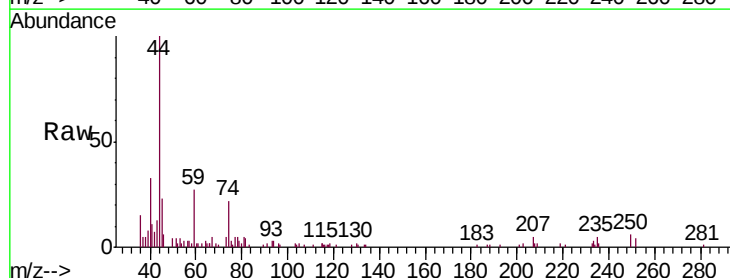
Acq: 12 May 2019 14:15

Tgt Ion: 74 Resp: 4247

Ion Ratio Lower Upper

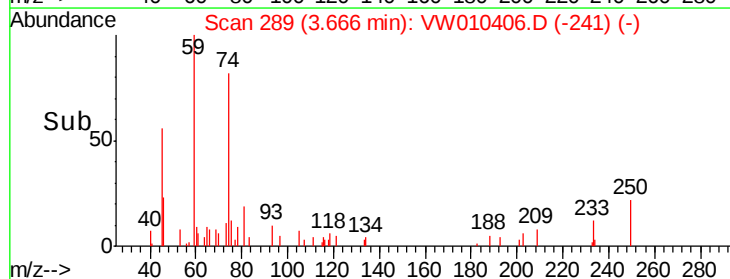
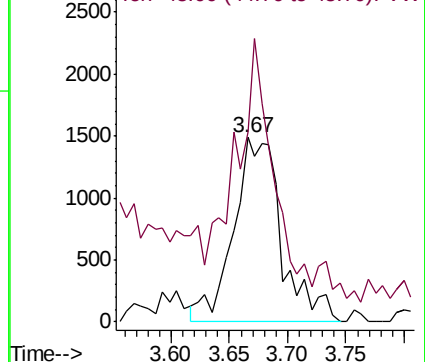
74 100

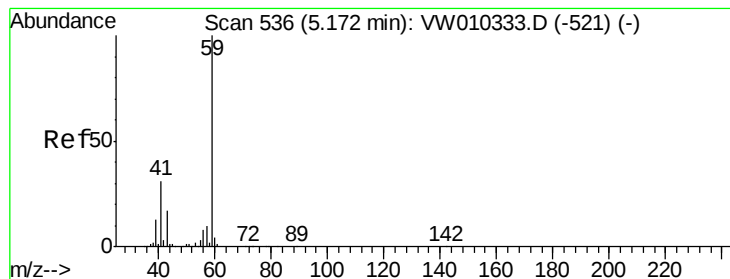
45 99.2 56.0 168.0



Abundance Ion 74.00 (73.70 to 74.70): VW

Ion 45.00 (44.70 to 45.70): VW





#11

Tert butyl alcohol

Concen: 10.533 ug/l

RT: 5.17 min Scan# 536

Delta R.T. -0.00 min

Lab File: VW010406.D

Acq: 12 May 2019 14:15

Instrument :

MSVOA_W

ClientSampleId :

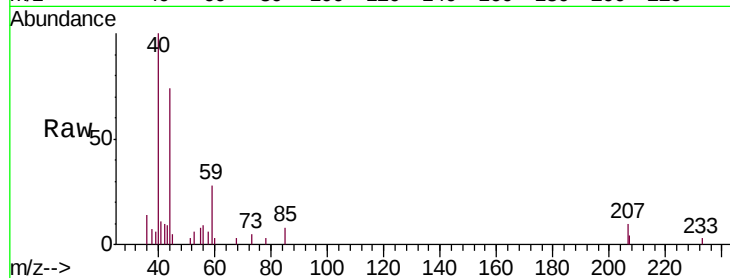
P026-SS007-1824-01

Tgt Ion: 59 Resp: 1991

Ion Ratio Lower Upper

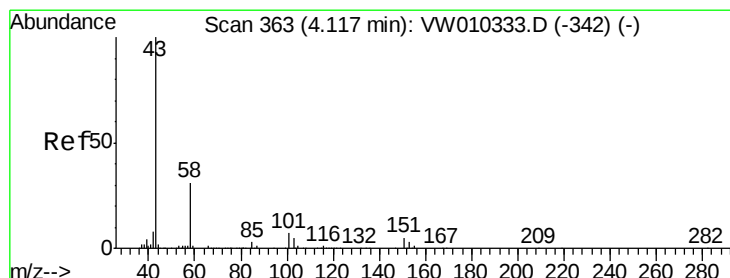
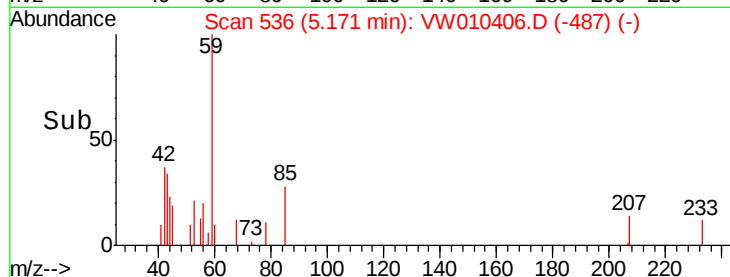
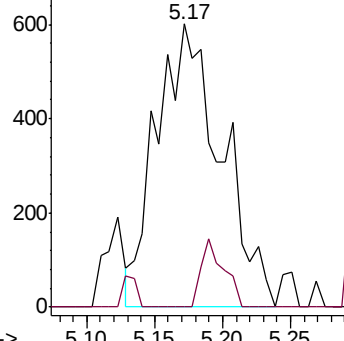
59 100

57 8.5 9.0 13.4#



Abundance Ion 59.00 (58.70 to 59.70): VW

Ion 57.00 (56.70 to 57.70): VW



#16

Acetone

Concen: 29.511 ug/l

RT: 4.12 min Scan# 364

Delta R.T. 0.01 min

Lab File: VW010406.D

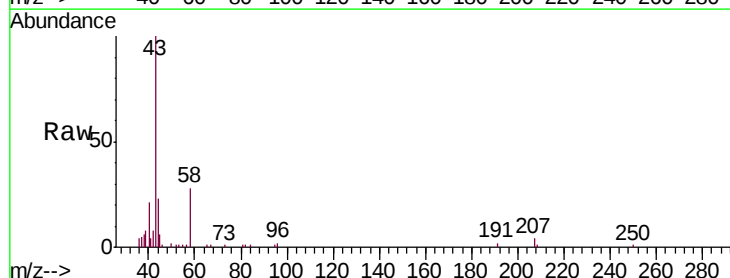
Acq: 12 May 2019 14:15

Tgt Ion: 43 Resp: 20593

Ion Ratio Lower Upper

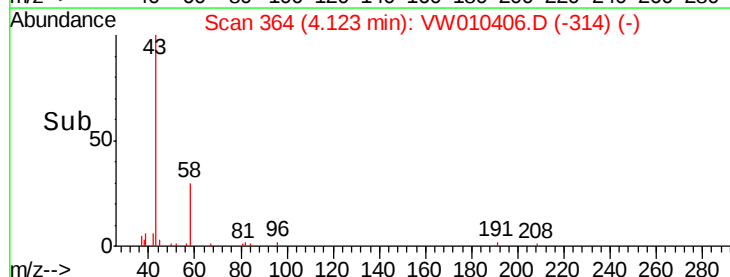
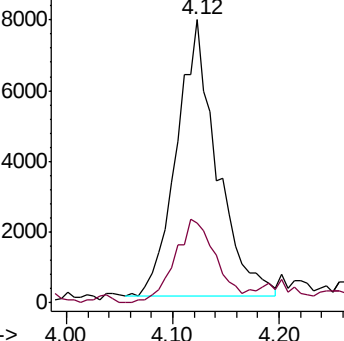
43 100

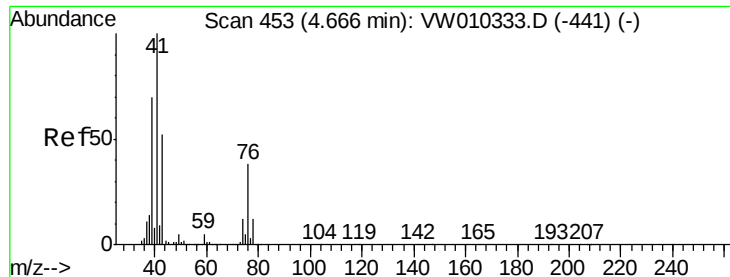
58 28.8 22.7 34.1



Abundance Ion 43.00 (42.70 to 43.70): VW

Ion 58.00 (57.70 to 58.70): VW

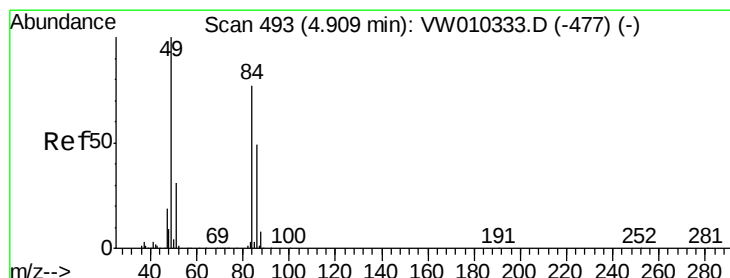
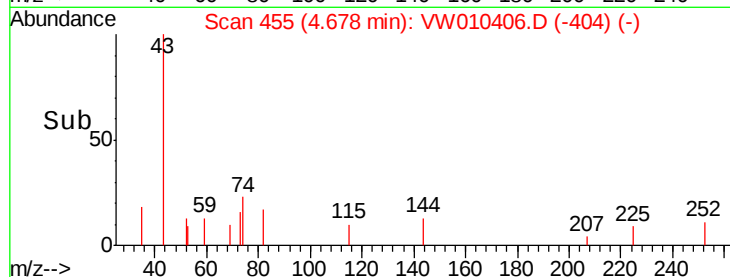
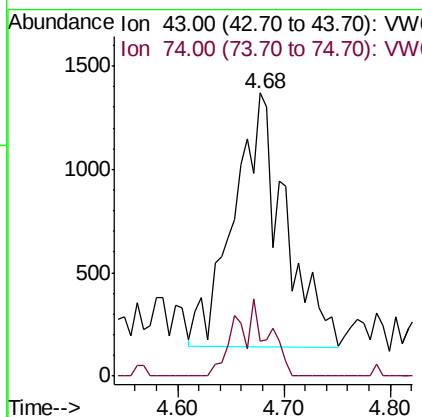
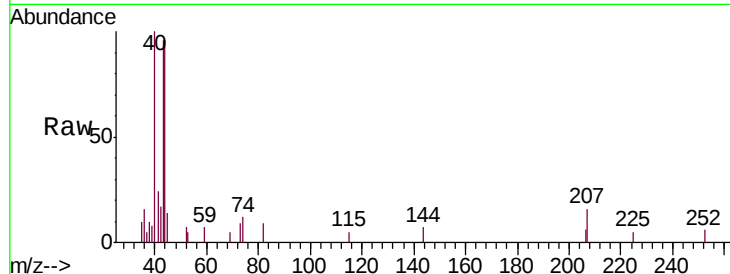




#18
Methyl Acetate
Concen: 2.394 ug/l
RT: 4.68 min Scan# 455
Delta R.T. 0.01 min
Lab File: VW010406.D
Acq: 12 May 2019 14:15

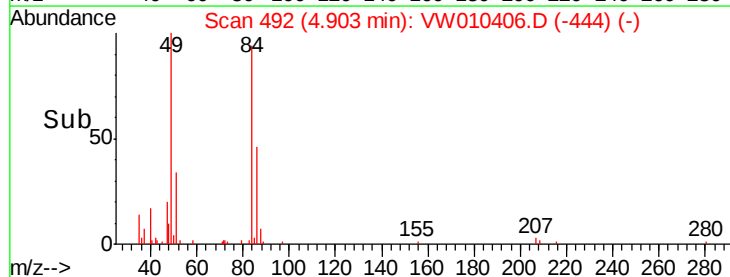
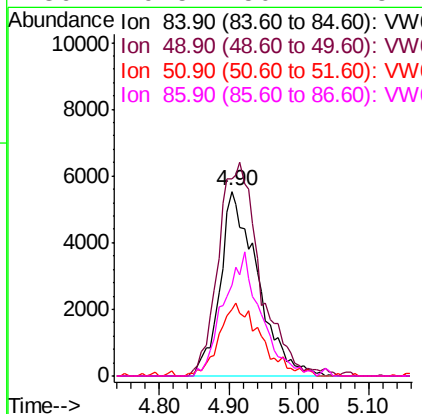
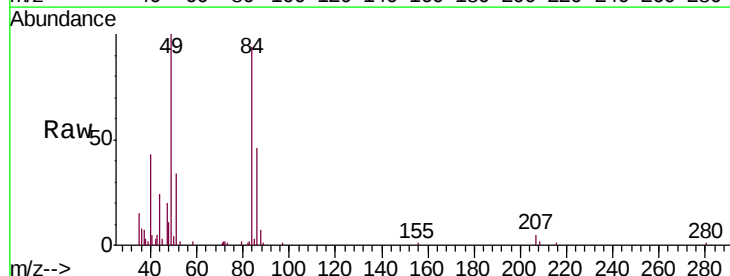
Instrument :
MSVOA_W
ClientSampleId :
P026-SS007-1824-01

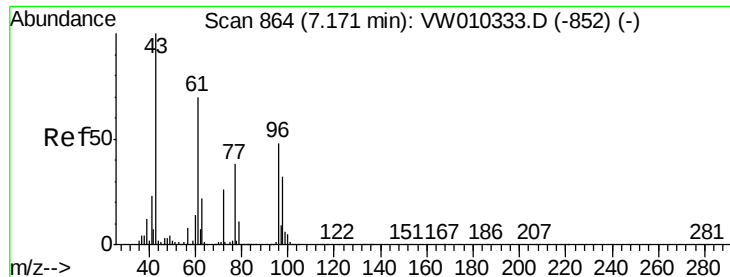
Tgt Ion: 43 Resp: 4138
Ion Ratio Lower Upper
43 100
74 0.0 16.8 25.2#



#20
Methylene Chloride
Concen: 7.079 ug/l
RT: 4.90 min Scan# 492
Delta R.T. -0.01 min
Lab File: VW010406.D
Acq: 12 May 2019 14:15

Tgt Ion: 84 Resp: 20604
Ion Ratio Lower Upper
84 100
49 106.8 112.3 168.5#
51 34.8 33.9 50.9
86 49.5 50.2 75.4#





#25

2-Butanone

Concen: 1.326 ug/l

RT: 7.19 min Scan# 867

Delta R.T. 0.02 min

Lab File: VW010406.D

Acq: 12 May 2019 14:15

Instrument :

MSVOA_W

ClientSampleId :

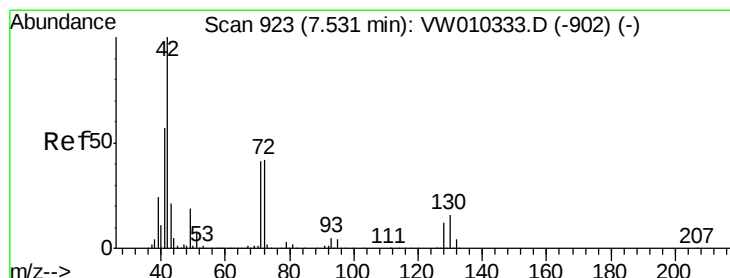
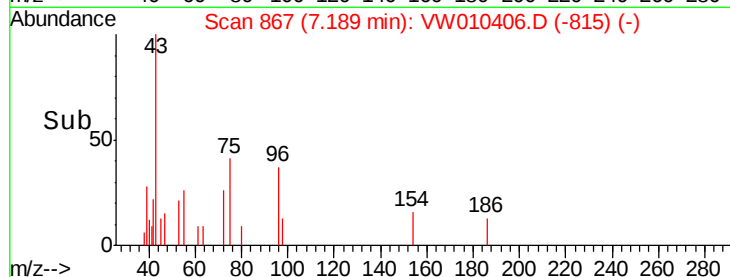
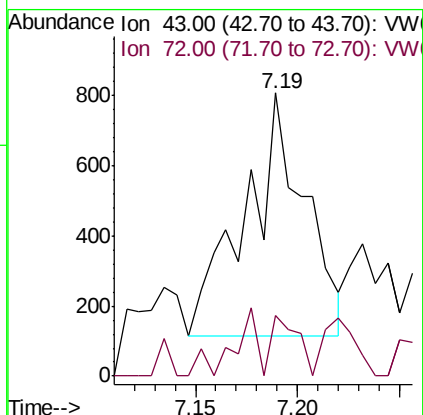
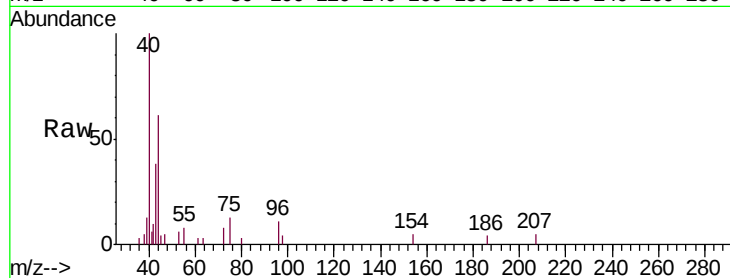
P026-SS007-1824-01

Tgt Ion: 43 Resp: 1415

Ion Ratio Lower Upper

43 100

72 25.1 19.1 28.7



#29

Tetrahydrofuran

Concen: 3.763 ug/l

RT: 7.54 min Scan# 925

Delta R.T. 0.01 min

Lab File: VW010406.D

Acq: 12 May 2019 14:15

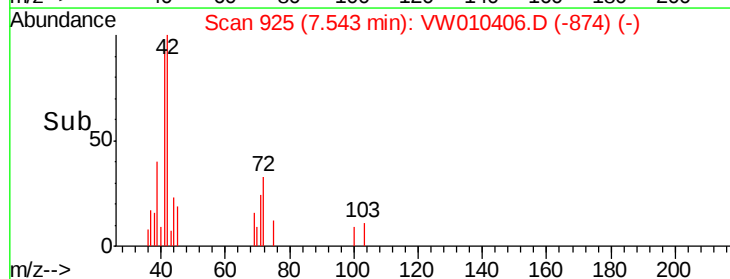
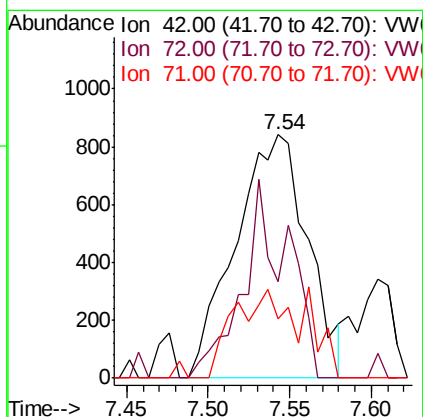
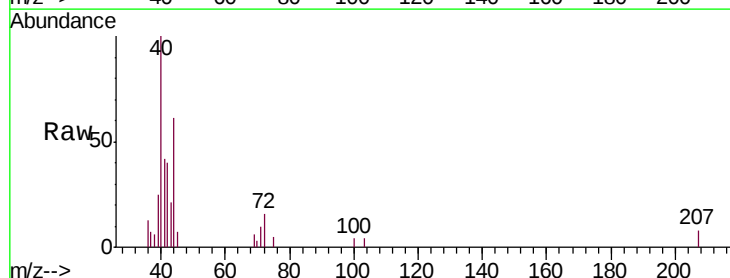
Tgt Ion: 42 Resp: 2598

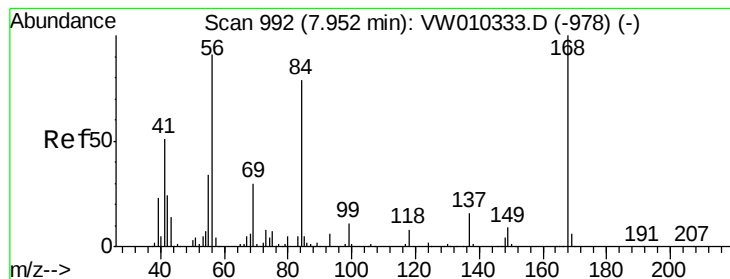
Ion Ratio Lower Upper

42 100

72 34.6 31.0 46.6

71 27.2 29.7 44.5#





#31

Cyclohexane

Concen: 1.279 ug/l

RT: 7.95 min Scan# 991

Delta R.T. -0.01 min

Lab File: VW010406.D

Acq: 12 May 2019 14:15

Instrument :

MSVOA_W

ClientSampleId :

P026-SS007-1824-01

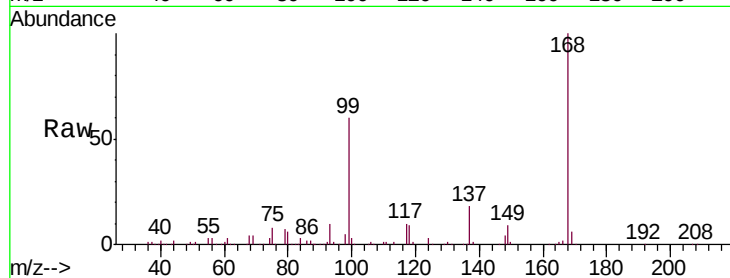
Tgt Ion: 56 Resp: 7010

Ion Ratio Lower Upper

56 100

69 144.3 26.6 40.0#

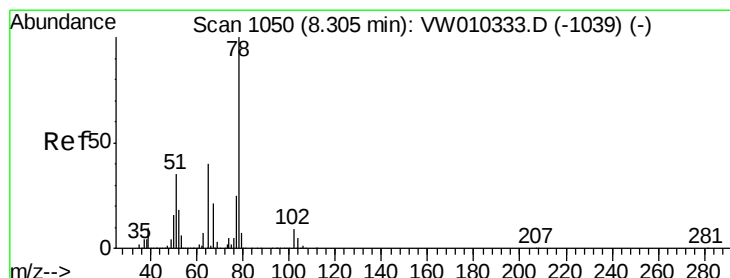
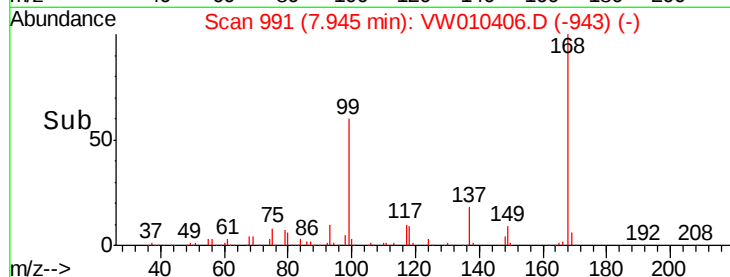
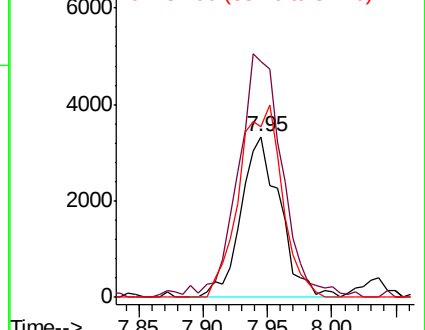
84 106.5 66.2 99.2#



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: 148.354 ug/l

RT: 8.31 min Scan# 1050

Delta R.T. -0.00 min

Lab File: VW010406.D

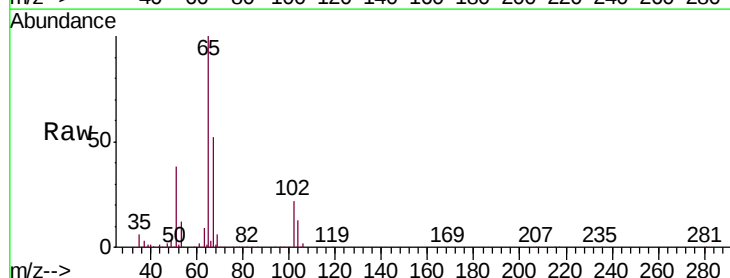
Acq: 12 May 2019 14:15

Tgt Ion: 65 Resp: 397104

Ion Ratio Lower Upper

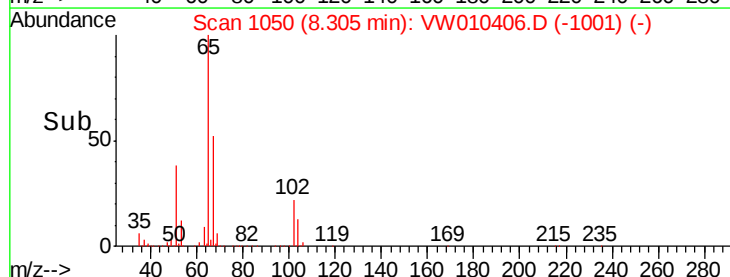
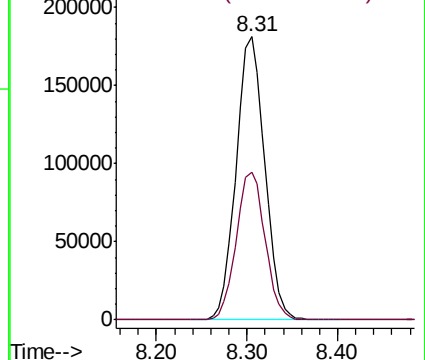
65 100

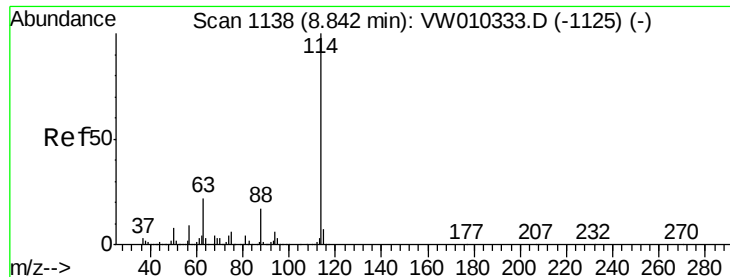
67 52.7 0.0 100.8



Abundance Ion 64.90 (64.60 to 65.60): VW

Ion 66.90 (66.60 to 67.60): VW

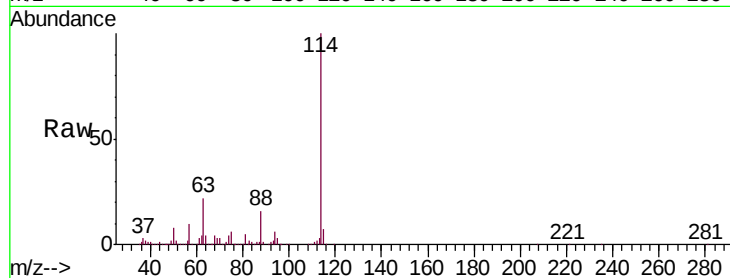




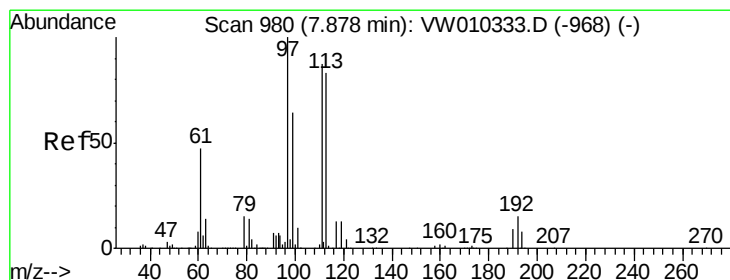
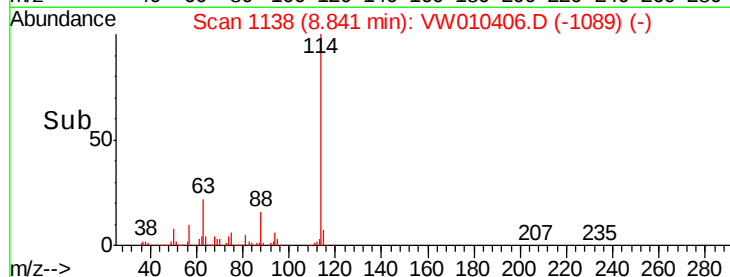
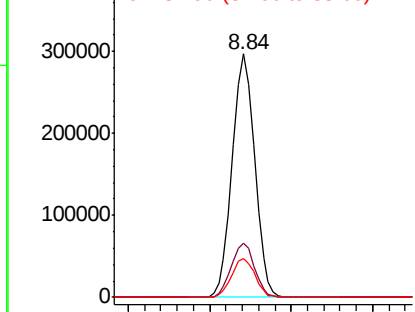
#34
 1,4-Difluorobenzene
 Concen: 50.000 ug/l
 RT: 8.84 min Scan# 1138
 Delta R.T. -0.00 min
 Lab File: VW010406.D
 Acq: 12 May 2019 14:15

Instrument :
 MSVOA_W
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 P026-SS007-1824-01

Tgt Ion	Ratio	Lower	Upper
114	100		
63	22.0	0.0	46.2
88	15.8	0.0	32.6

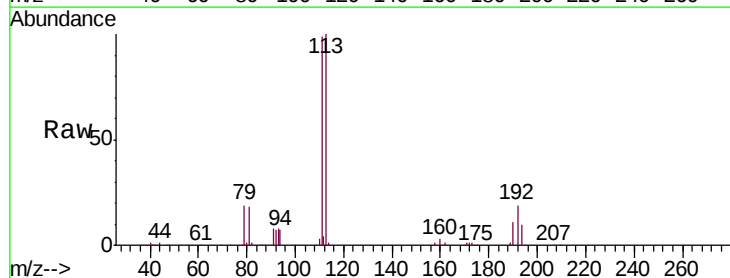


Abundance Ion 113.90 (113.60 to 114.60): V
 Ion 63.00 (62.70 to 63.70): VW
 Ion 87.90 (87.60 to 88.60): VW

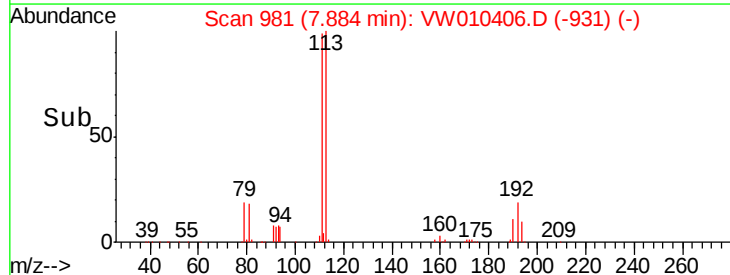
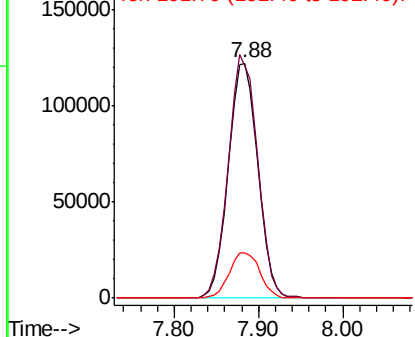


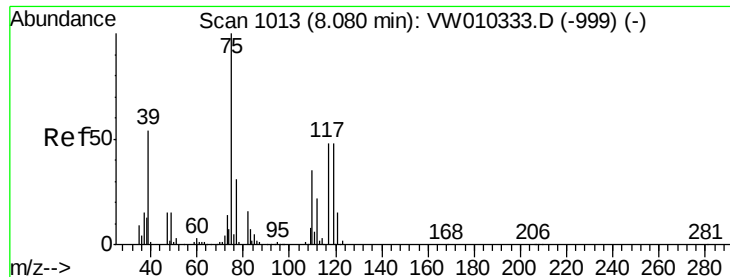
#35
 Dibromofluoromethane
 Concen: 88.089 ug/l
 RT: 7.88 min Scan# 981
 Delta R.T. 0.01 min
 Lab File: VW010406.D
 Acq: 12 May 2019 14:15

Tgt Ion	Ratio	Lower	Upper
113	100		
111	103.1	82.6	123.8
192	20.0	15.4	23.2



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: 3.611 ug/l

RT: 7.95 min Scan# 992

Delta R.T. -0.13 min

Lab File: VW010406.D

Acq: 12 May 2019 14:15

Instrument :

MSVOA_W

ClientSampleId :

P026-SS007-1824-01

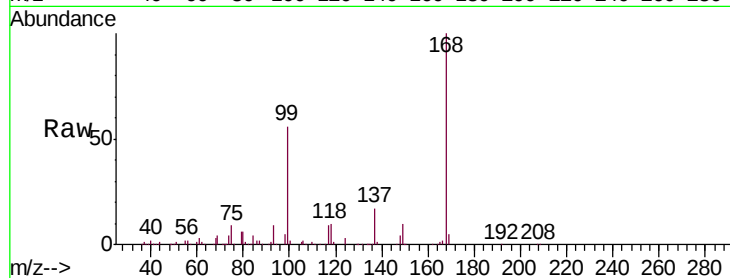
Tgt Ion: 75 Resp: 22126

Ion Ratio Lower Upper

75 100

110 9.8 16.6 49.8#

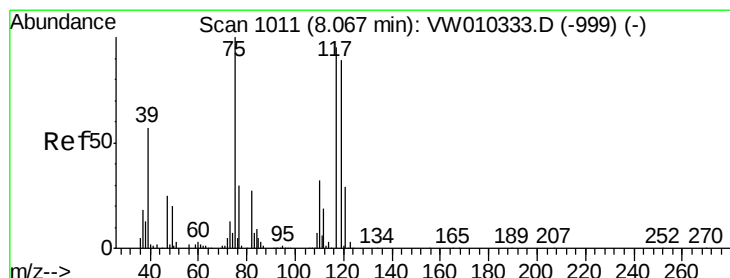
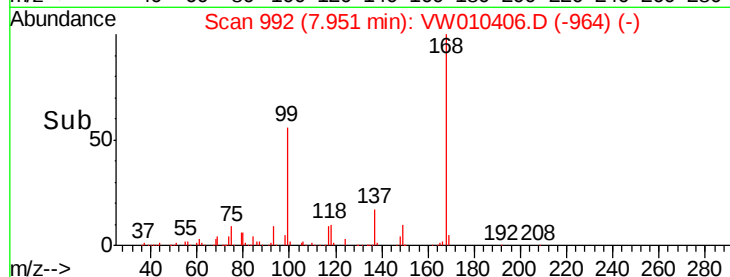
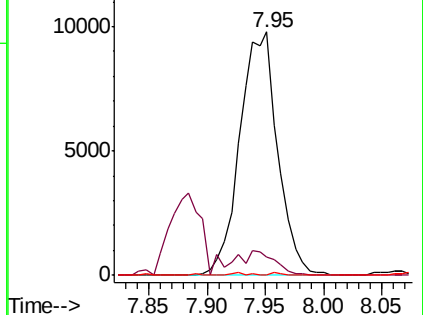
77 0.3 24.8 37.2#



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: 4.921 ug/l

RT: 7.95 min Scan# 991

Delta R.T. -0.12 min

Lab File: VW010406.D

Acq: 12 May 2019 14:15

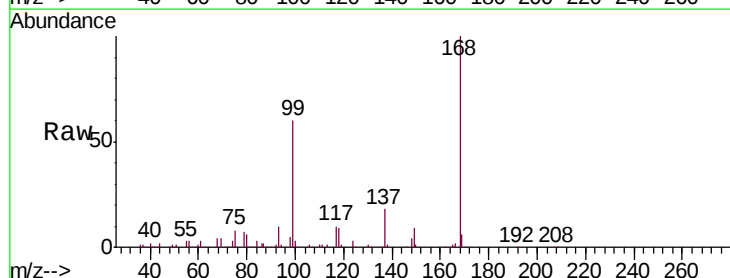
Tgt Ion: 117 Resp: 25847

Ion Ratio Lower Upper

117 100

119 9.1 75.3 112.9#

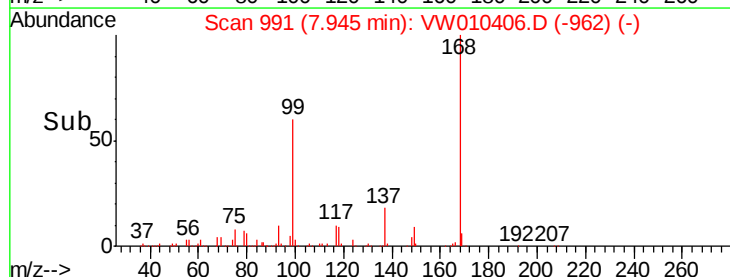
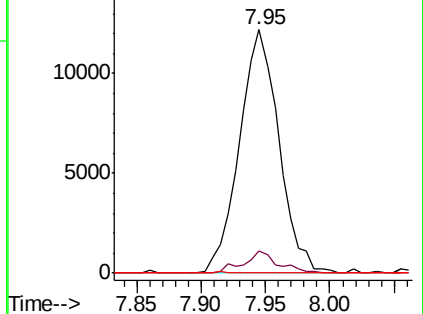
121 0.0 24.4 36.6#

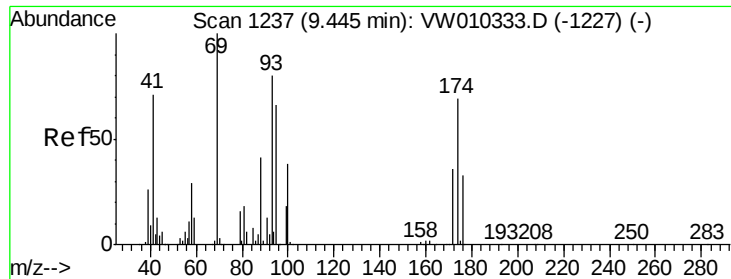


Abundance Ion 116.80 (116.50 to 117.50): V

Ion 118.80 (118.50 to 119.50): V

Ion 120.80 (120.50 to 121.50): V

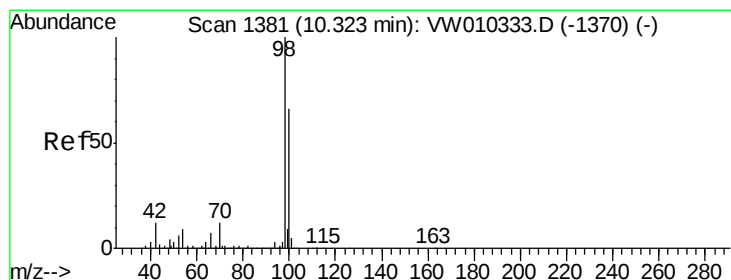
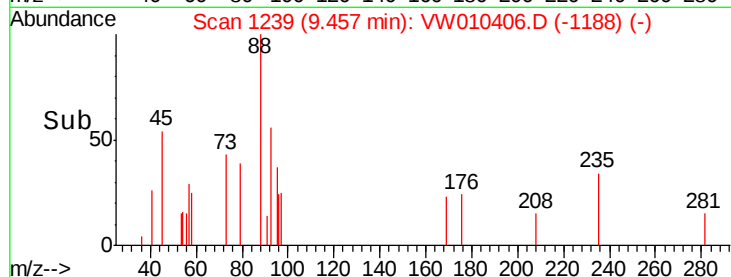
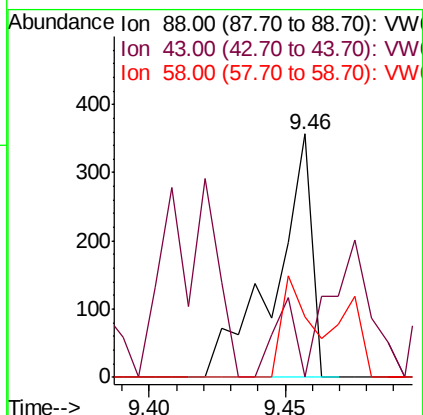
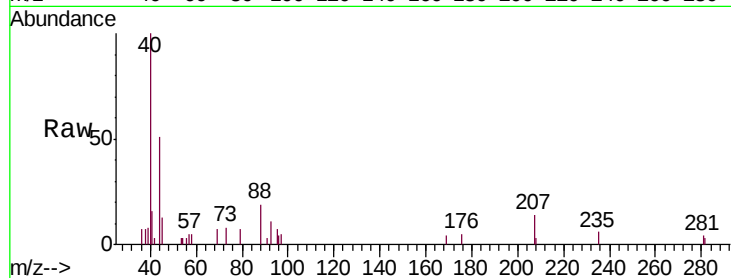




#49
 1,4-Dioxane
 Concen: 8.887 ug/l
 RT: 9.46 min Scan# 1239
 Delta R.T. 0.01 min
 Lab File: VW010406.D
 Acq: 12 May 2019 14:15

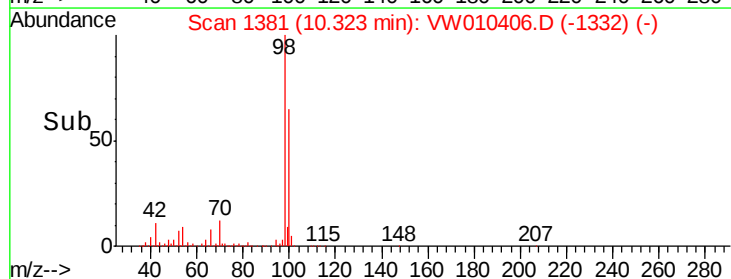
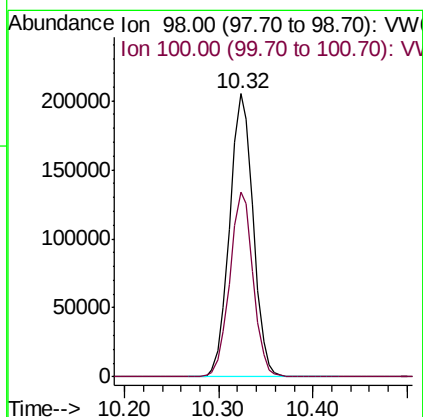
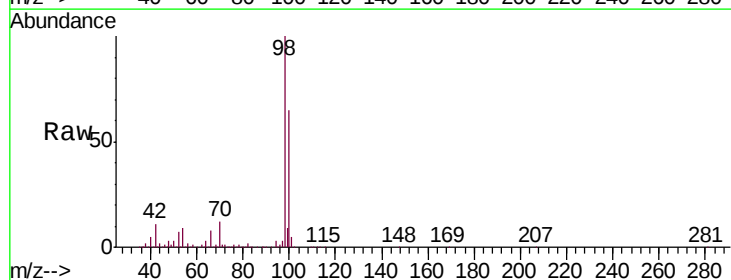
Instrument :
 MSVOA_W
 ClientSampleId :
 P026-SS007-1824-01

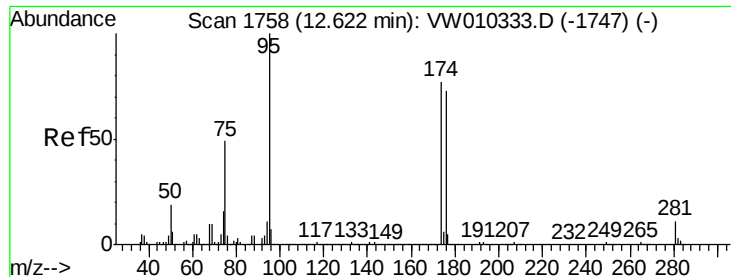
Tgt Ion: 88 Resp: 334
 Ion Ratio Lower Upper
 88 100
 43 19.5 31.9 47.9#
 58 32.0 61.8 92.6#



#50
 Toluene-d8
 Concen: 26.441 ug/l
 RT: 10.32 min Scan# 1381
 Delta R.T. -0.00 min
 Lab File: VW010406.D
 Acq: 12 May 2019 14:15

Tgt Ion: 98 Resp: 356079
 Ion Ratio Lower Upper
 98 100
 100 64.3 52.3 78.5





#62

4-Bromofluorobenzene

Concen: 20.355 ug/l

RT: 12.62 min Scan# 1758

Delta R.T. -0.00 min

Lab File: VW010406.D

Acq: 12 May 2019 14:15

Instrument :

MSVOA_W

ClientSampleId :

P026-SS007-1824-01

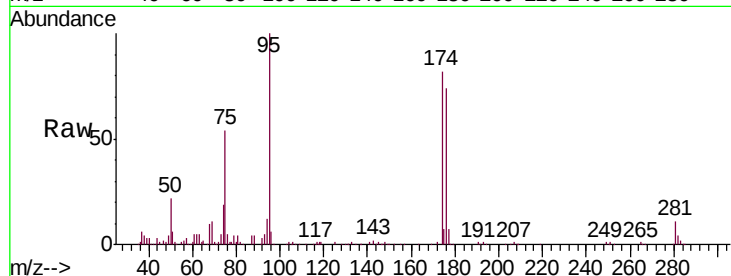
Tgt Ion: 95 Resp: 96492

Ion Ratio Lower Upper

95 100

174 79.6 0.0 151.4

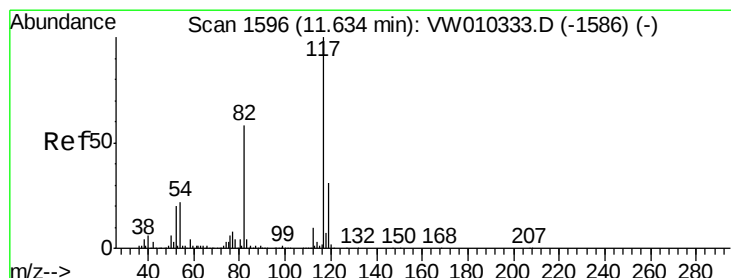
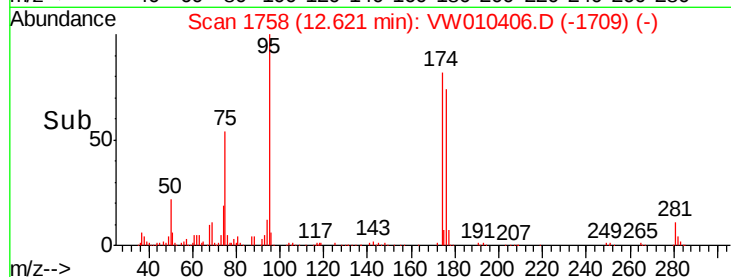
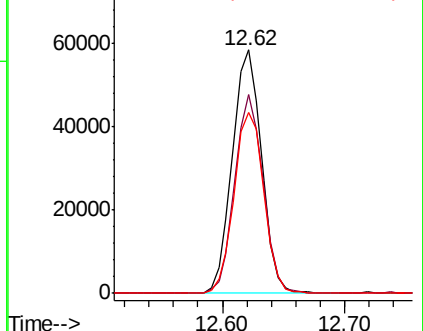
176 75.9 0.0 146.2



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# 1596

Delta R.T. -0.00 min

Lab File: VW010406.D

Acq: 12 May 2019 14:15

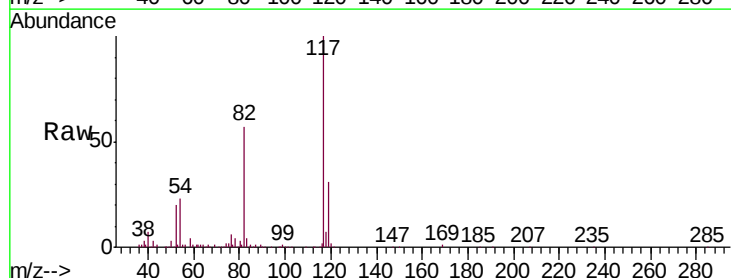
Tgt Ion: 117 Resp: 391120

Ion Ratio Lower Upper

117 100

82 56.9 45.2 67.8

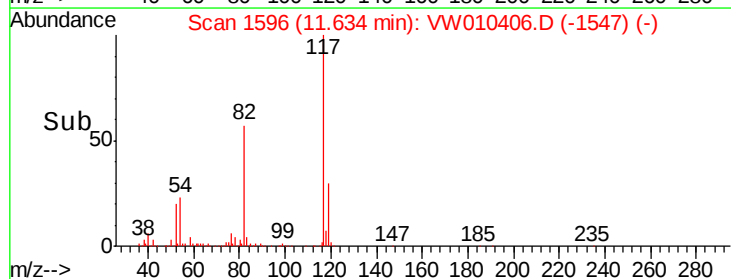
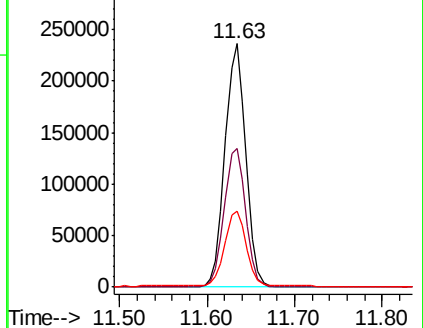
119 31.0 25.4 38.2

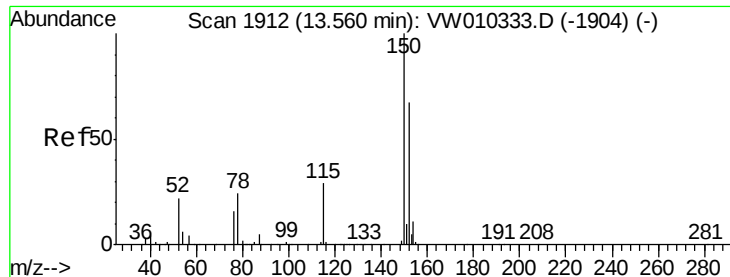


Abundance Ion 116.90 (116.60 to 117.60): VW

Ion 82.00 (81.70 to 82.70): VW

Ion 118.90 (118.60 to 119.60): VW





#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

RT: 13.56 min Scan# 1912

Delta R.T. -0.00 min

Lab File: VW010406.D

Acq: 12 May 2019 14:15

Instrument :

MSVOA_W

ClientSampleId :

P026-SS007-1824-01

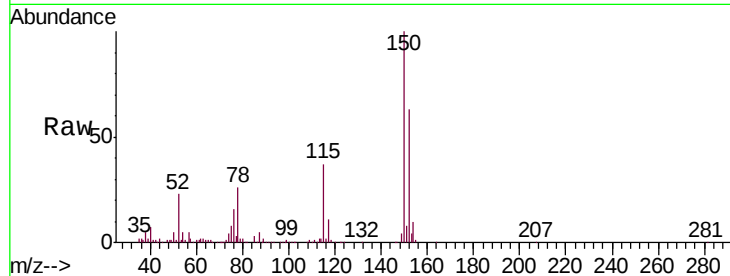
Tgt Ion:152 Resp: 95592

Ion Ratio Lower Upper

152 100

115 59.5 30.4 91.2

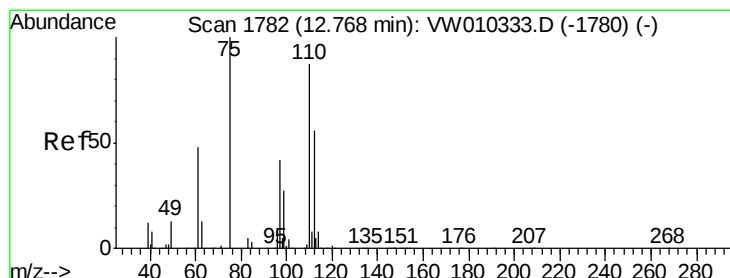
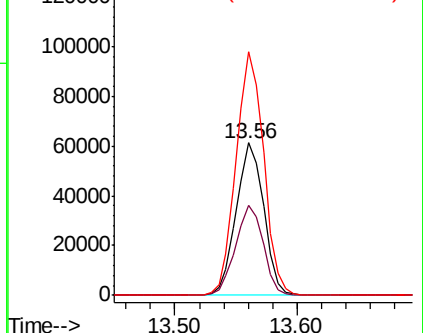
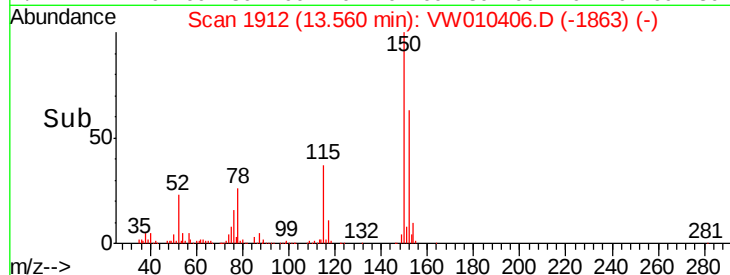
150 159.4 0.0 347.0



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: 45.754 ug/l

RT: 12.62 min Scan# 1758

Delta R.T. -0.15 min

Lab File: VW010406.D

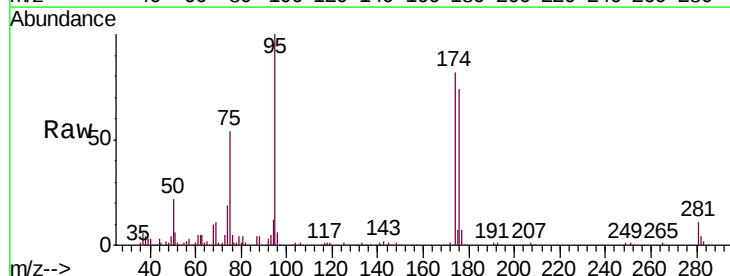
Acq: 12 May 2019 14:15

Tgt Ion: 75 Resp: 50994

Ion Ratio Lower Upper

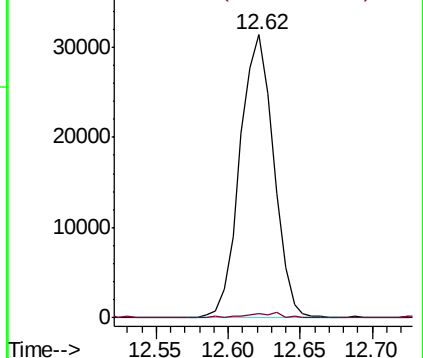
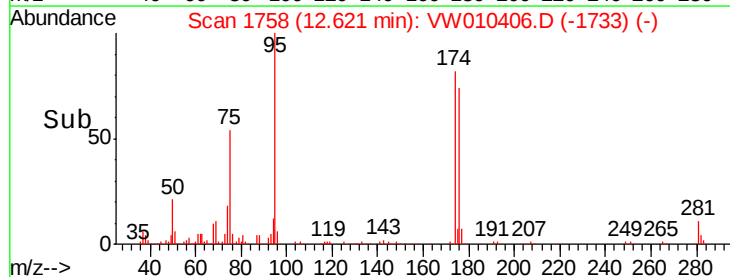
75 100

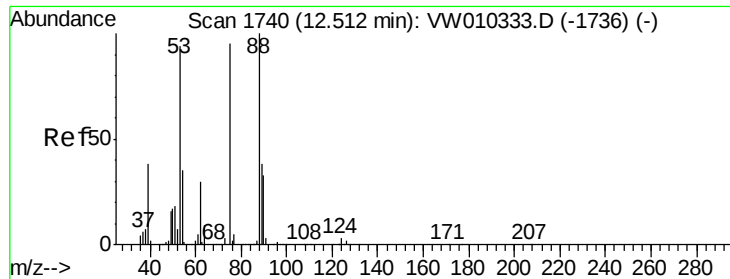
77 2.0 0.0 0.0#



Abundance Ion 74.90 (74.60 to 75.60): VW

Ion 77.00 (76.70 to 77.70): VW

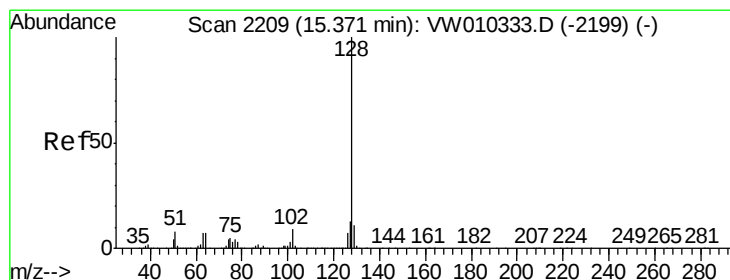
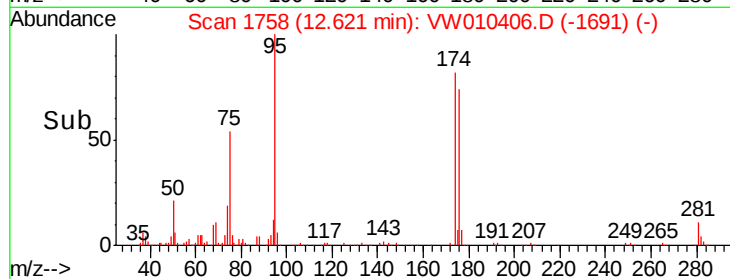
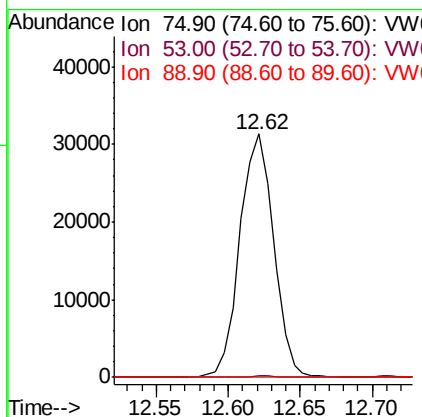
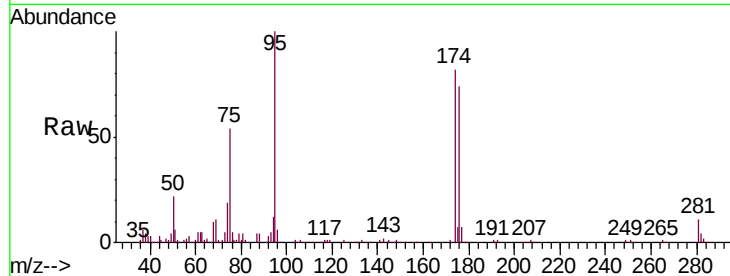




#81
trans-1,4-Dichloro-2-butene
Concen: 103.327 ug/l
RT: 12.62 min Scan# 1758
Delta R.T. 0.11 min
Lab File: VW010406.D
Acq: 12 May 2019 14:15

Instrument :
MSVOA_W
ClientSampleId :
P026-SS007-1824-01

Tgt Ion: 75 Resp: 50994
Ion Ratio Lower Upper
75 100
53 0.5 89.8 134.8#
89 0.0 36.6 54.8#



#95
Naphthalene
Concen: 4.398 ug/l
RT: 15.37 min Scan# 2209
Delta R.T. -0.00 min
Lab File: VW010406.D
Acq: 12 May 2019 14:15

Tgt Ion: 128 Resp: 3756
Ion Ratio Lower Upper
128 100
127 18.1 10.6 15.8#
129 9.3 8.7 13.1

