

Data File : VW010404.D
Acq On : 12 May 2019 13:20
Operator : SY/VA
Sample : K2718-18
Misc : 5.37G/5ML/MSVOA_W/SOIL
ALS Vial : 8 Sample Multiplier: 1

Instrument :
MSVOA_W
ClientSampleId :
P026-SS007-0612-01

Quant Time: May 13 05:22:38 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	202025	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	8.84	114	478928	50.00	ug/l	0.00
63) Chlorobenzene-d5	11.63	117	382075	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.56	152	108746	50.00	ug/l	0.00

System Monitoring Compounds

33) 1,2-Dichloroethane-d4	8.31	65	399579	186.04	ug/l	0.00
Spiked Amount	50.000		Recovery	=	372.08%	
35) Dibromofluoromethane	7.88	113	266670	95.15	ug/l	0.00
Spiked Amount	50.000		Recovery	=	190.30%	
50) Toluene-d8	10.32	98	316503	27.73	ug/l	0.00
Spiked Amount	50.000		Recovery	=	55.46%	
62) 4-Bromofluorobenzene	12.62	95	102791	25.59	ug/l	0.00
Spiked Amount	50.000		Recovery	=	51.18%	

Target Compounds

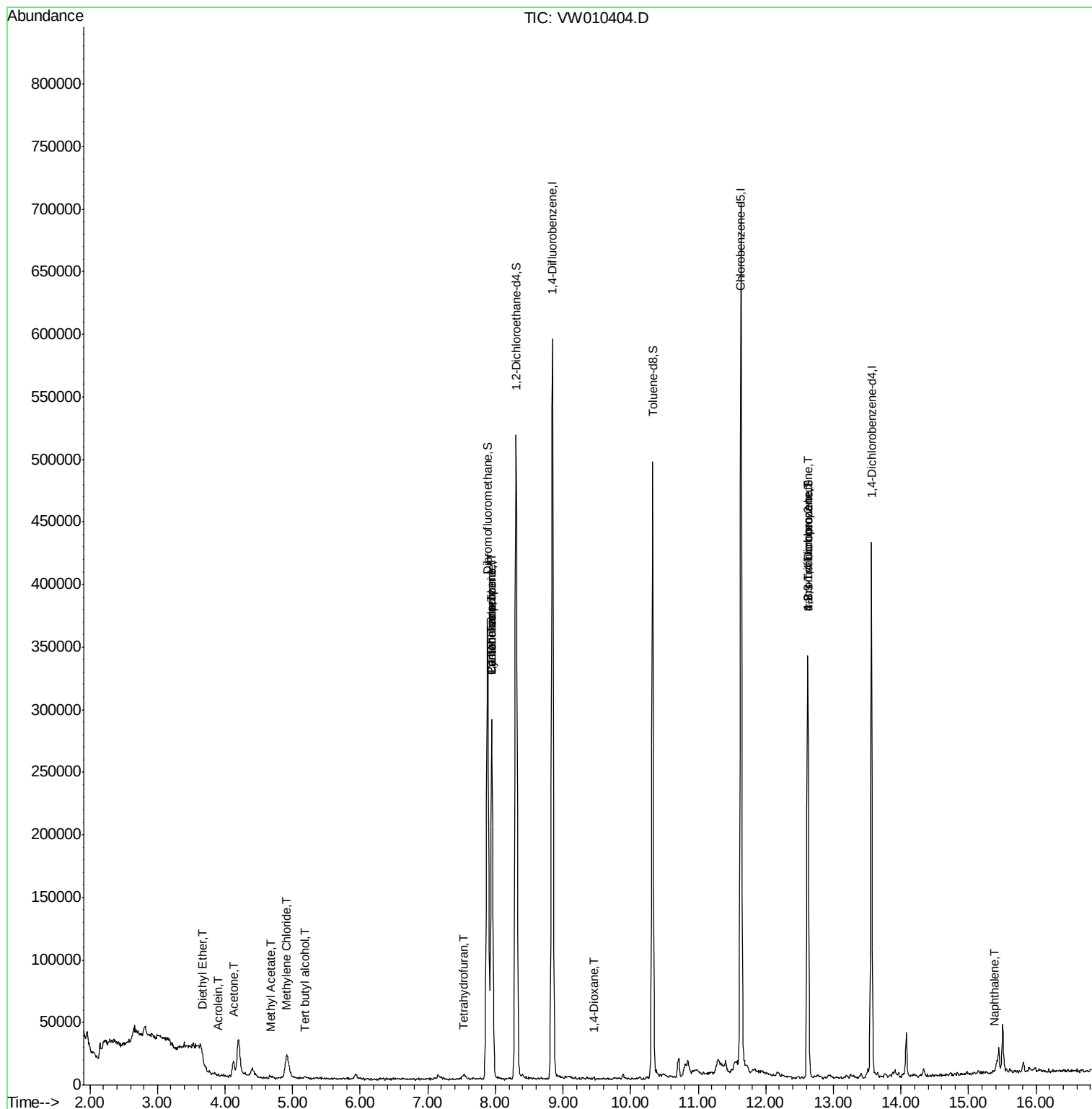
						Qvalue
8) Diethyl Ether	3.67	74	2483	2.195	ug/l #	36
11) Tert butyl alcohol	5.18	59	1489	9.817	ug/l #	73
13) Acrolein	3.89	56	398	1.987	ug/l	95
16) Acetone	4.12	43	22544	40.263	ug/l	97
18) Methyl Acetate	4.67	43	4820	3.475	ug/l	95
20) Methylene Chloride	4.91	84	18605	7.967	ug/l	95
29) Tetrahydrofuran	7.54	42	2168	3.913	ug/l #	75
31) Cyclohexane	7.95	56	5162	1.173	ug/l #	1
36) 1,1-Dichloropropene	7.95	75	17758	3.420	ug/l #	50
38) Carbon Tetrachloride	7.95	117	21076	4.735	ug/l #	19
49) 1,4-Dioxane	9.45	88	48	1.507	ug/l #	1
76) 1,2,3-Trichloropropane	12.62	75	54953	43.342	ug/l #	100
81) trans-1,4-Dichloro-2-buten	12.62	75	54953	97.880	ug/l #	6
95) Naphthalene	15.38	128	1694	3.913	ug/l #	84

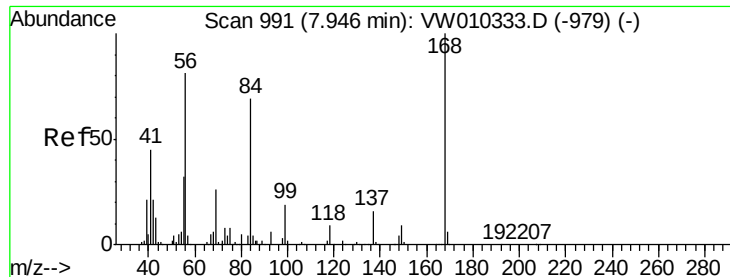
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 7.95 min Scan# 991

Delta R.T. -0.00 min

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Instrument :

MSVOA_W

ClientSampleId :

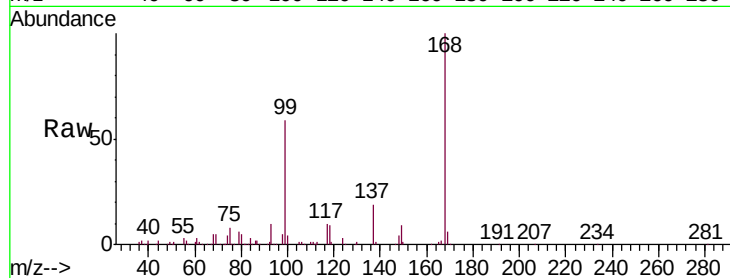
P026-SS007-0612-01

Tgt Ion:168 Resp: 202025

Ion Ratio Lower Upper

168 100

99 58.8 48.4 72.6



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VW

7.95

100000

80000

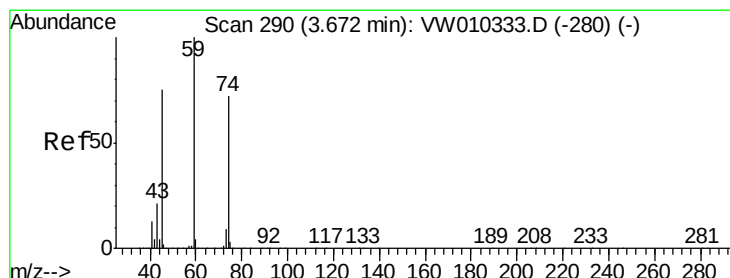
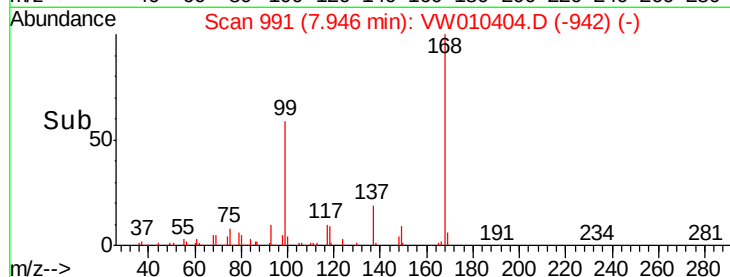
60000

40000

20000

0

Time-->



#8

Diethyl Ether

Concen: 2.195 ug/l

RT: 3.67 min Scan# 290

Delta R.T. -0.00 min

Lab File: VW010404.D

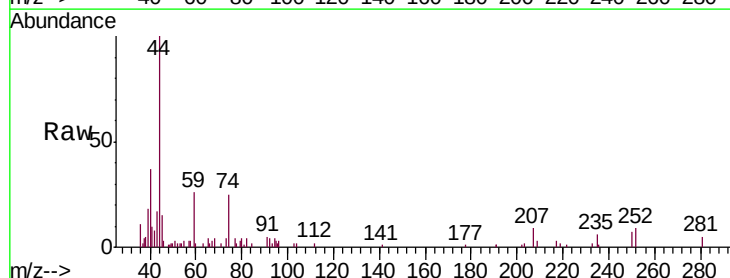
Acq: 12 May 2019 13:20

Tgt Ion: 74 Resp: 2483

Ion Ratio Lower Upper

74 100

45 43.4 56.0 168.0#



Abundance Ion 74.00 (73.70 to 74.70): VW

Ion 45.00 (44.70 to 45.70): VW

3.67

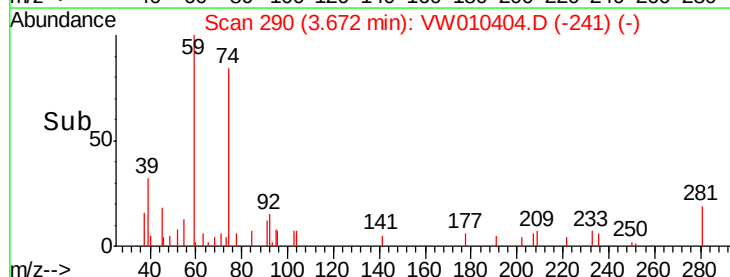
1500

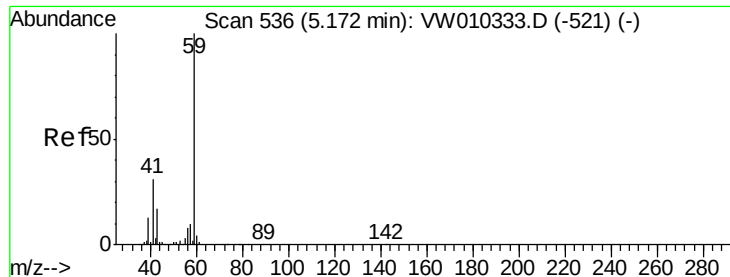
1000

500

0

Time-->



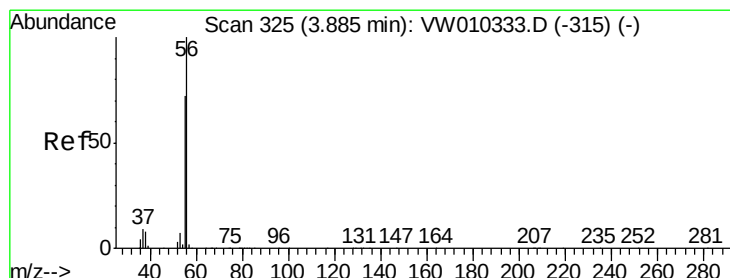
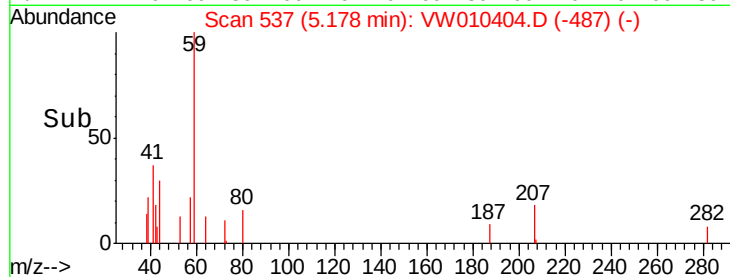
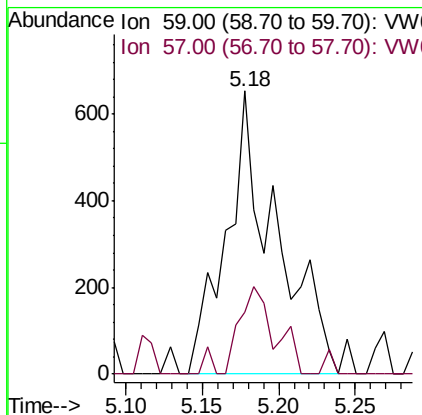
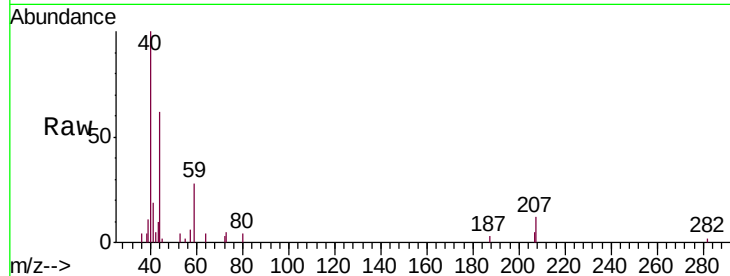


#11

Tert butyl alcohol
 Concen: 9.817 ug/l
 RT: 5.18 min Scan# 537
 Delta R.T. 0.01 min
 Lab File: VW010404.D
 Acq: 12 May 2019 13:20

Instrument :
 MSVOA_W
 ClientSampleId :
 P026-SS007-0612-01

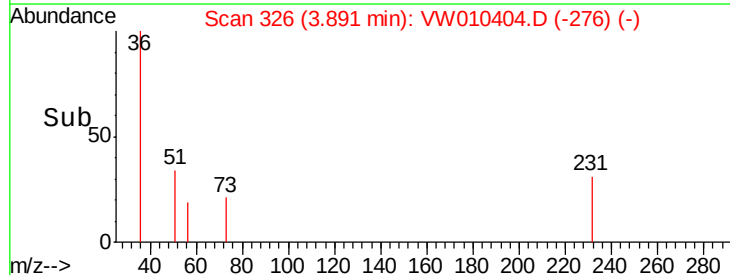
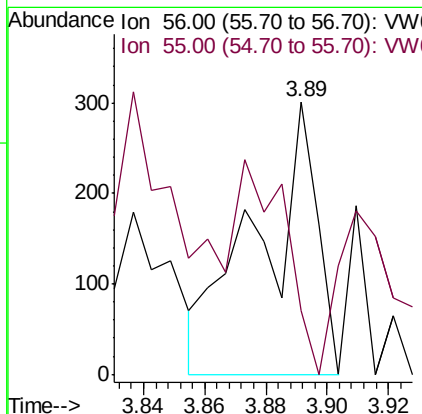
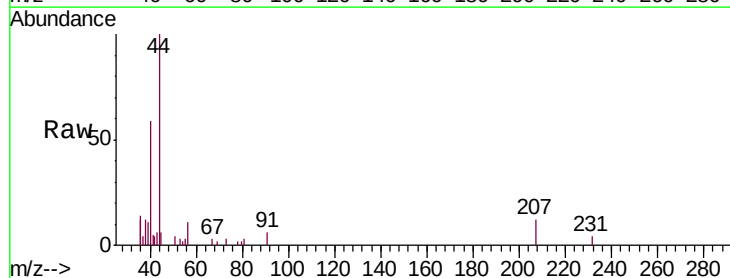
Tgt Ion: 59 Resp: 1489
 Ion Ratio Lower Upper
 59 100
 57 21.4 9.0 13.4#

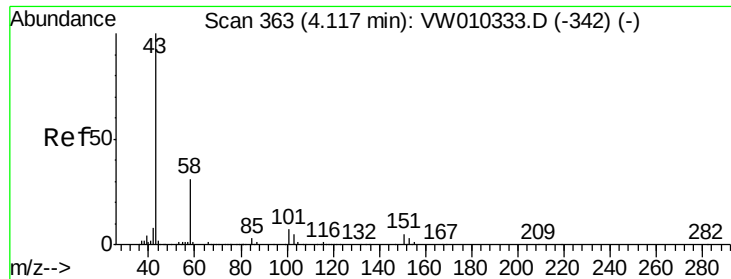


#13

Acrolein
 Concen: 1.987 ug/l
 RT: 3.89 min Scan# 326
 Delta R.T. 0.01 min
 Lab File: VW010404.D
 Acq: 12 May 2019 13:20

Tgt Ion: 56 Resp: 398
 Ion Ratio Lower Upper
 56 100
 55 64.1 54.2 81.2





#16

Acetone

Concen: 40.263 ug/l

RT: 4.12 min Scan# 364

Delta R.T. 0.01 min

Lab File: VW010404.D

Acq: 12 May 2019 13:20

Instrument :

MSVOA_W

ClientSampleId :

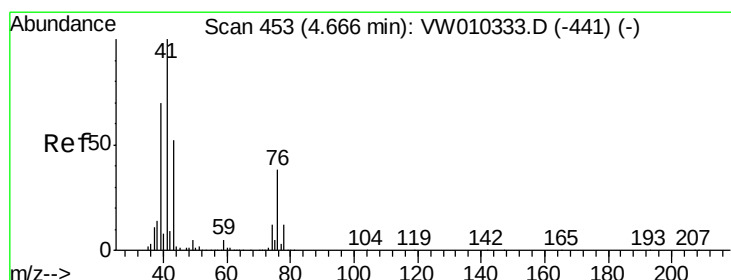
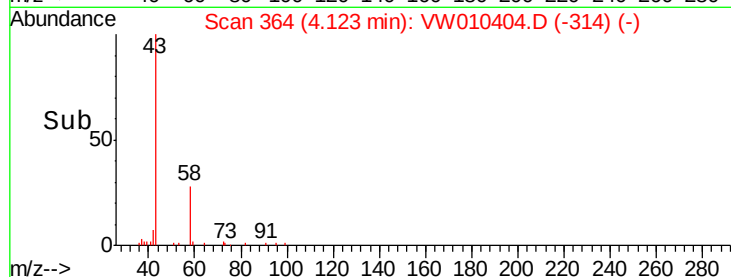
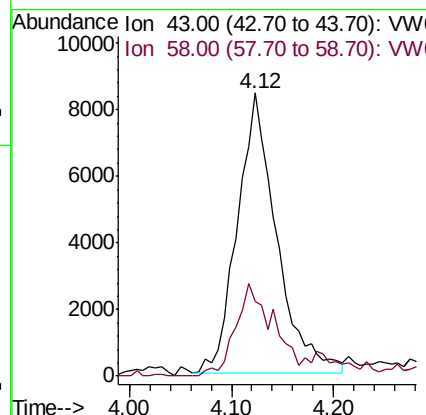
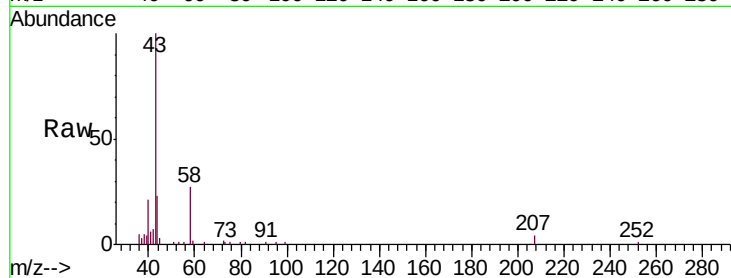
P026-SS007-0612-01

Tgt Ion: 43 Resp: 22544

Ion Ratio Lower Upper

43 100

58 26.9 22.7 34.1



#18

Methyl Acetate

Concen: 3.475 ug/l

RT: 4.67 min Scan# 454

Delta R.T. 0.01 min

Lab File: VW010404.D

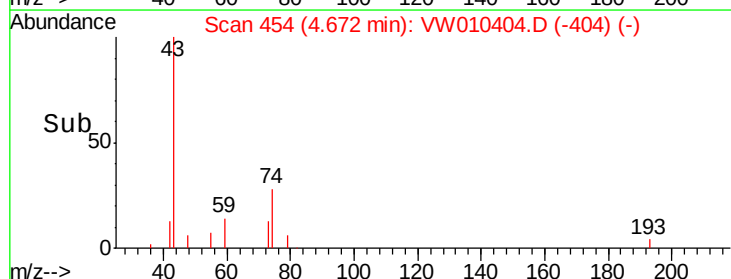
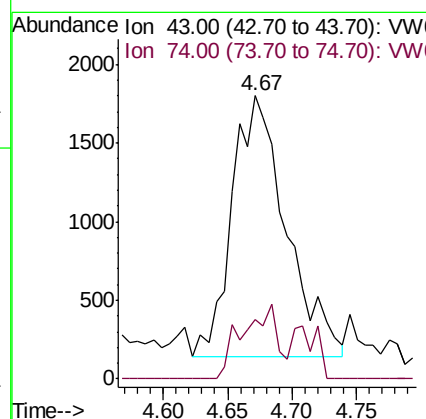
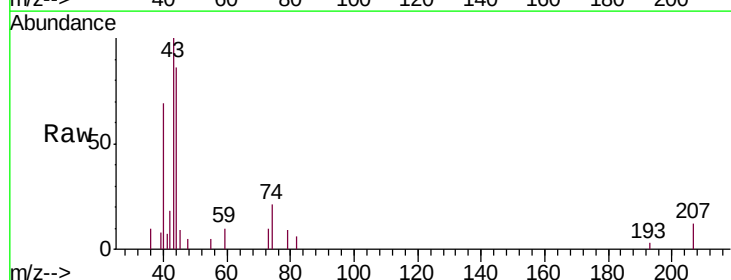
Acq: 12 May 2019 13:20

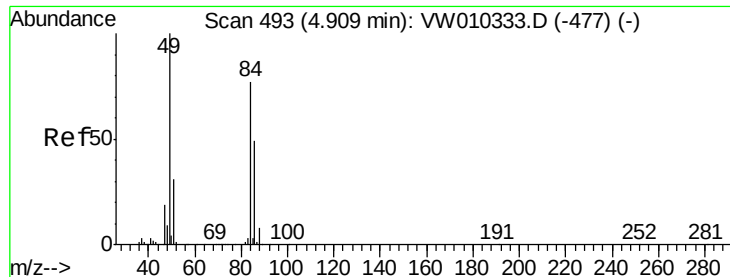
Tgt Ion: 43 Resp: 4820

Ion Ratio Lower Upper

43 100

74 18.8 16.8 25.2

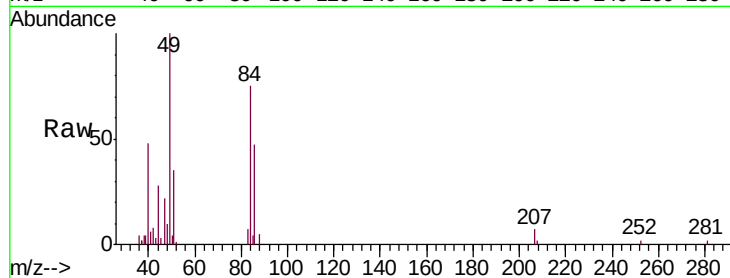




#20
Methylene Chloride
Concen: 7.967 ug/l
RT: 4.91 min Scan# 493
Delta R.T. -0.00 min
Lab File: VW010404.D
Acq: 12 May 2019 13:20

Instrument :
MSVOA_W
ClientSampleId :
P026-SS007-0612-01

Tgt Ion:	84	Resp:	18605
Ion	Ratio	Lower	Upper
84	100		
49	133.8	112.3	168.5
51	47.4	33.9	50.9
86	63.2	50.2	75.4



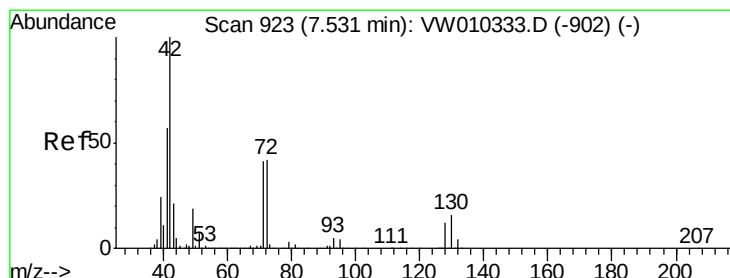
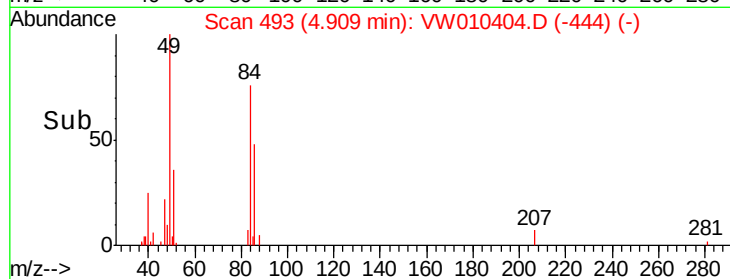
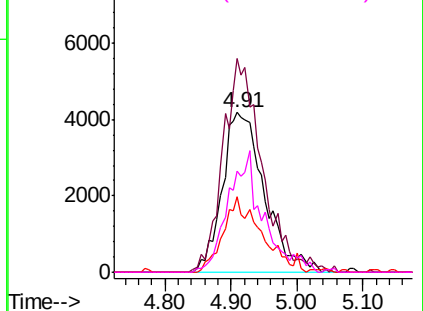
Abundance

Ion 83.90 (83.60 to 84.60): VW

Ion 48.90 (48.60 to 49.60): VW

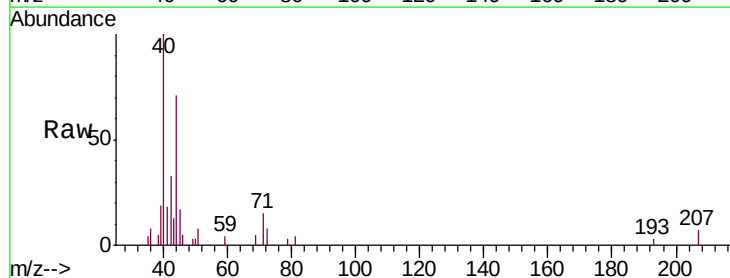
Ion 50.90 (50.60 to 51.60): VW

Ion 85.90 (85.60 to 86.60): VW



#29
Tetrahydrofuran
Concen: 3.913 ug/l
RT: 7.54 min Scan# 924
Delta R.T. 0.01 min
Lab File: VW010404.D
Acq: 12 May 2019 13:20

Tgt Ion:	42	Resp:	2168
Ion	Ratio	Lower	Upper
42	100		
72	18.4	31.0	46.6#
71	27.5	29.7	44.5#

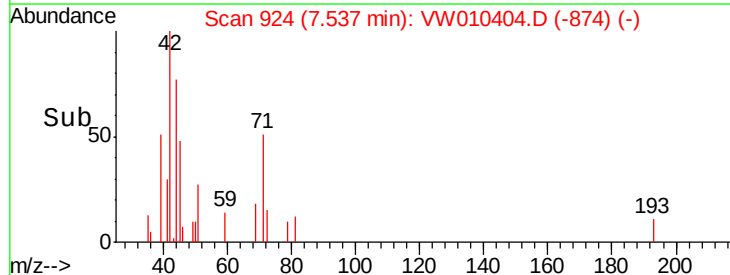
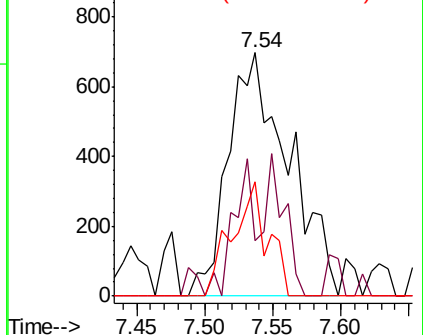


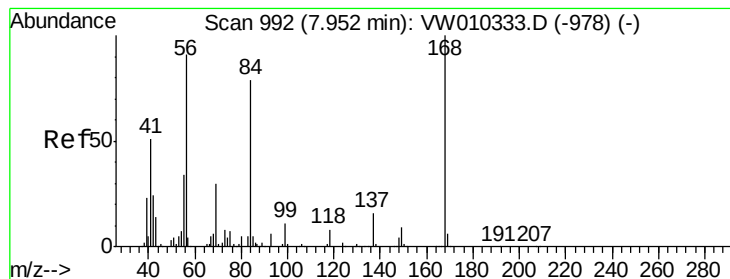
Abundance

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: 1.173 ug/l

RT: 7.95 min Scan# 991

Delta R.T. -0.01 min

Lab File: VW010404.D

Acq: 12 May 2019 13:20

Instrument :

MSVOA_W

ClientSampleId :

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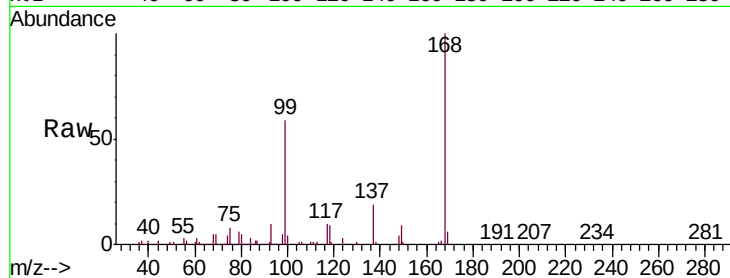
Tgt Ion: 56 Resp: 5162

Ion Ratio Lower Upper

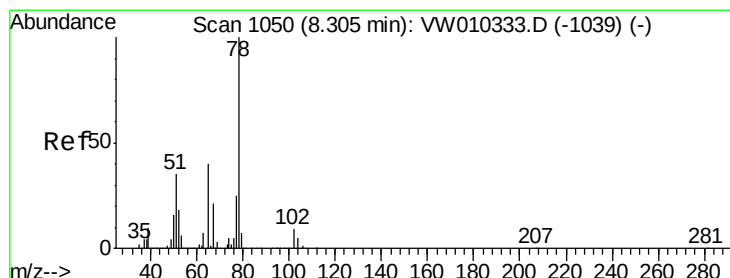
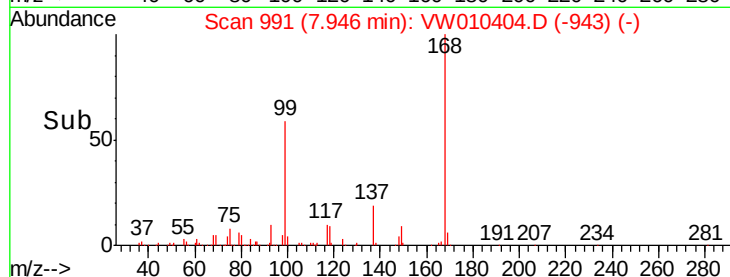
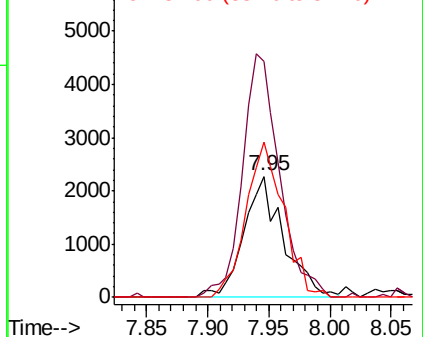
56 100

69 193.9 26.6 40.0#

84 127.6 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: 186.041 ug/l

RT: 8.31 min Scan# 1050

Delta R.T. -0.00 min

Lab File: VW010404.D

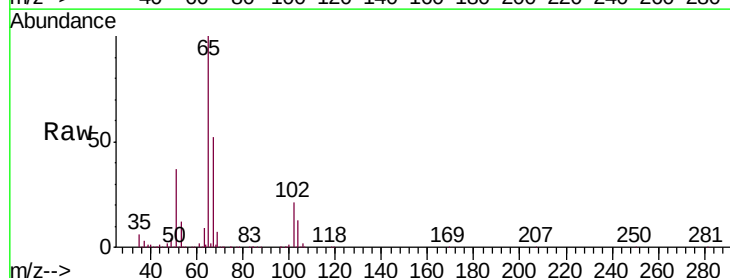
Acq: 12 May 2019 13:20

Tgt Ion: 65 Resp: 399579

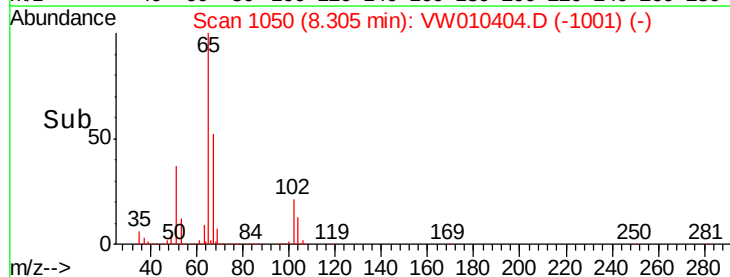
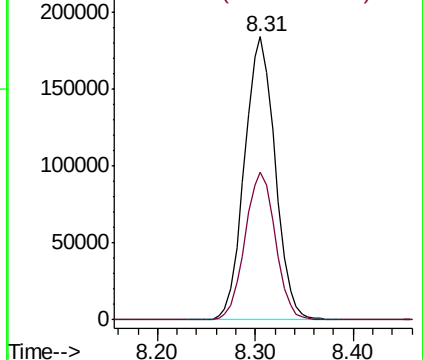
Ion Ratio Lower Upper

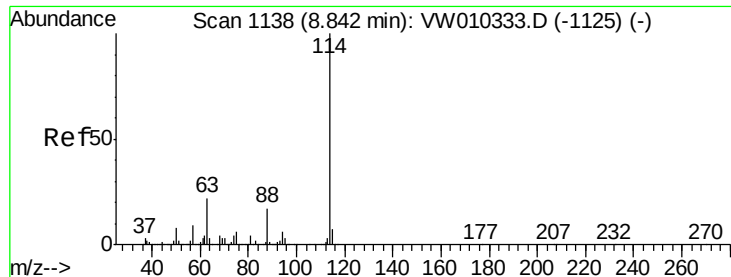
65 100

67 51.9 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: VW010404.D

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ClientSampleId :

P026-SS007-0612-01

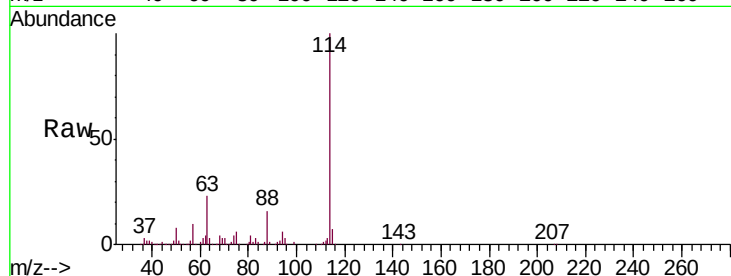
Tgt Ion:114 Resp: 478928

Ion Ratio Lower Upper

114 100

63 23.2 0.0 46.2

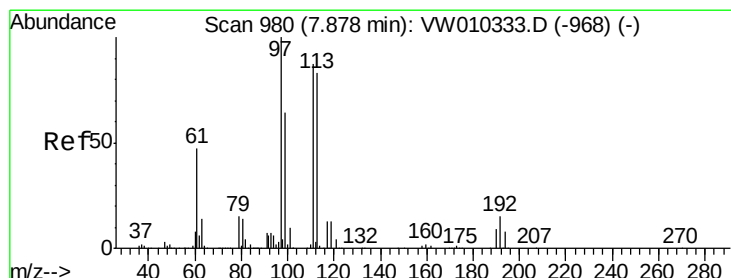
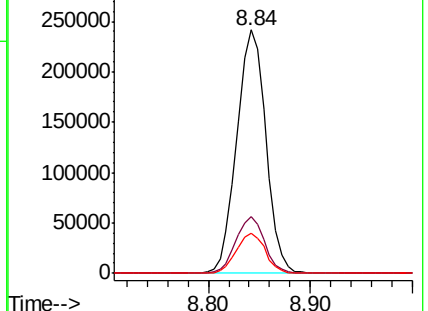
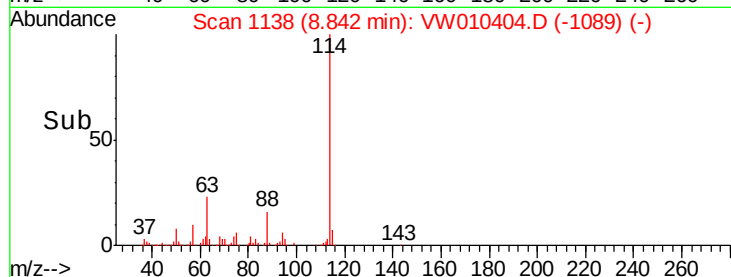
88 16.4 0.0 32.6



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: 95.150 ug/l

RT: 7.88 min Scan# 981

Delta R.T. 0.01 min

Lab File: VW010404.D

Acq: 12 May 2019 13:20

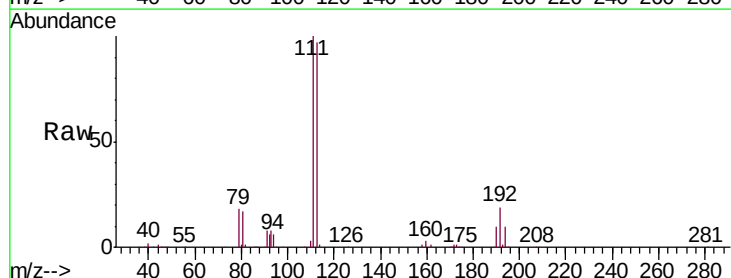
Tgt Ion:113 Resp: 266670

Ion Ratio Lower Upper

113 100

111 103.2 82.6 123.8

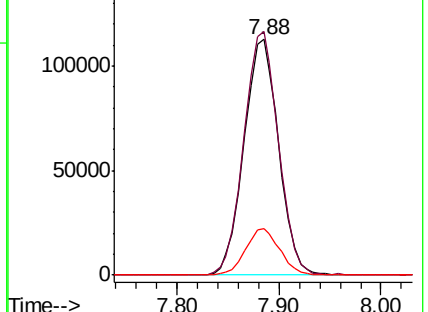
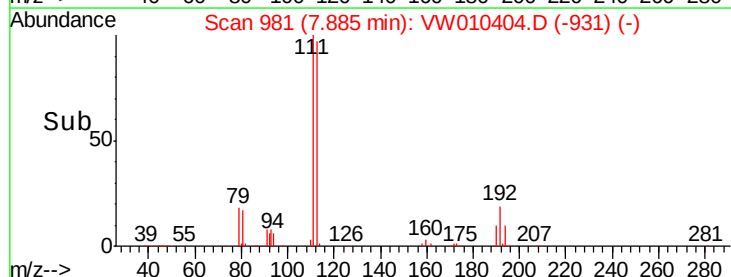
192 19.4 15.4 23.2

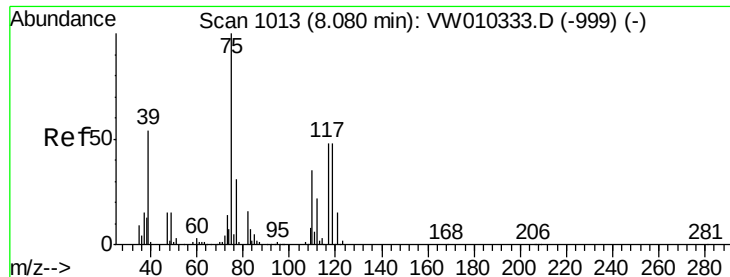


Abundance Ion 112.80 (112.50 to 113.50): V

Ion 110.80 (110.50 to 111.50): V

Ion 191.70 (191.40 to 192.40): V





#36

1,1-Dichloropropene

Concen: 3.420 ug/l

RT: 7.95 min Scan# 992

Delta R.T. -0.13 min

Lab File: VW010404.D

Acq: 12 May 2019 13:20

Instrument :

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P026-SS007-0612-01

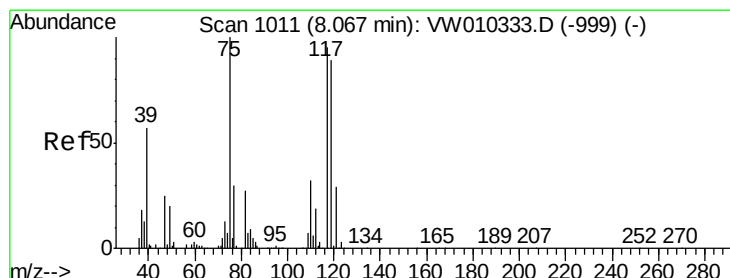
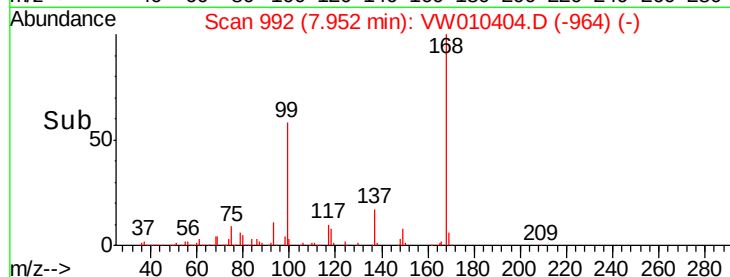
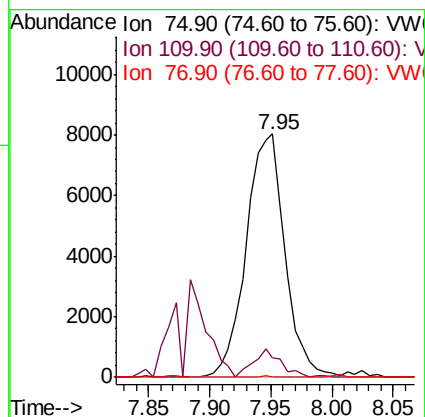
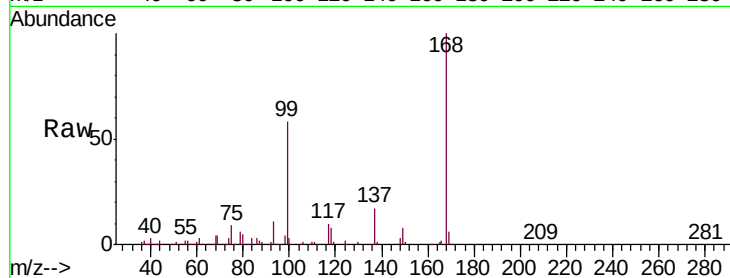
Tgt Ion: 75 Resp: 17758

Ion Ratio Lower Upper

75 100

110 8.5 16.6 49.8#

77 0.2 24.8 37.2#



#38

Carbon Tetrachloride

Concen: 4.735 ug/l

RT: 7.95 min Scan# 991

Delta R.T. -0.12 min

Lab File: VW010404.D

Acq: 12 May 2019 13:20

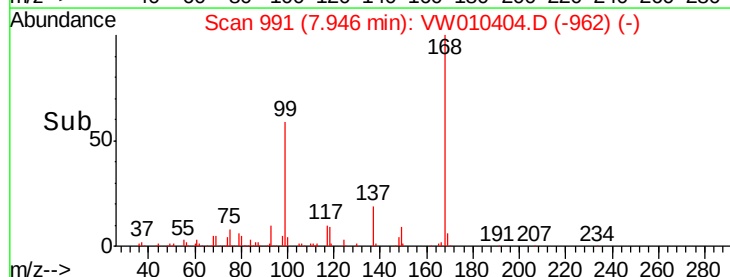
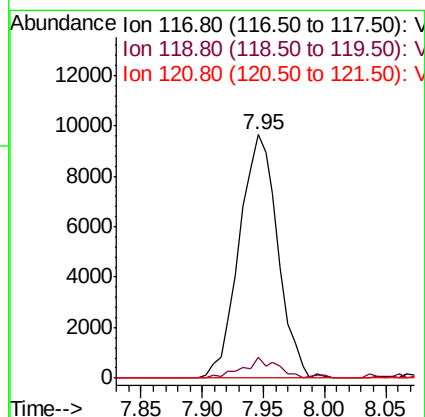
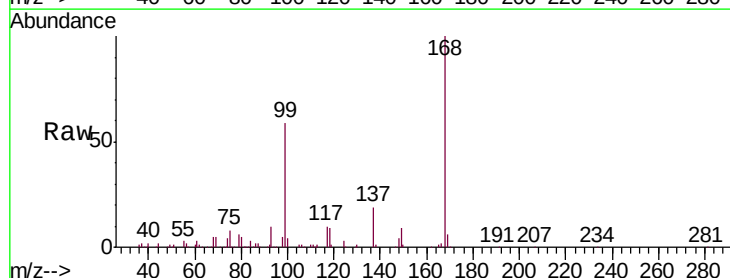
Tgt Ion: 117 Resp: 21076

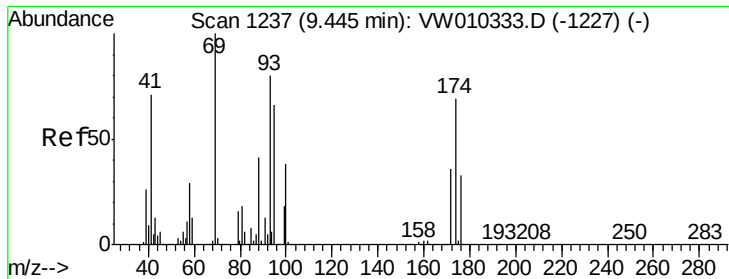
Ion Ratio Lower Upper

117 100

119 8.4 75.3 112.9#

121 0.0 24.4 36.6#





#49

1,4-Dioxane

Concen: 1.507 ug/l

RT: 9.45 min Scan# 1237

Delta R.T. -0.00 min

Lab File: VW010404.D

Acq: 12 May 2019 13:20

Instrument :

MSVOA_W

ClientSampleId :

P026-SS007-0612-01

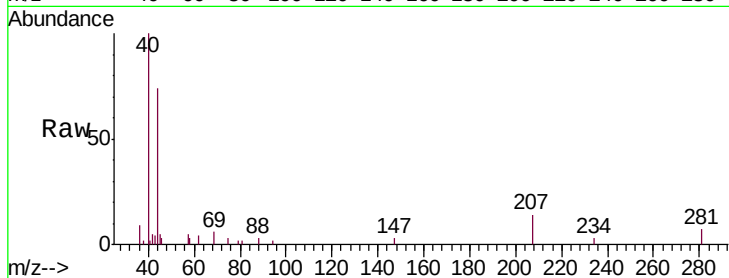
Tgt Ion: 88 Resp: 48

Ion Ratio Lower Upper

88 100

43 364.6 31.9 47.9#

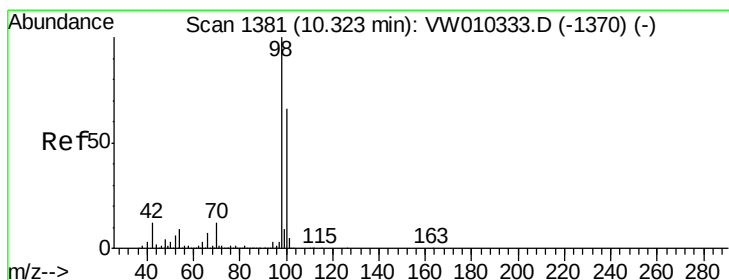
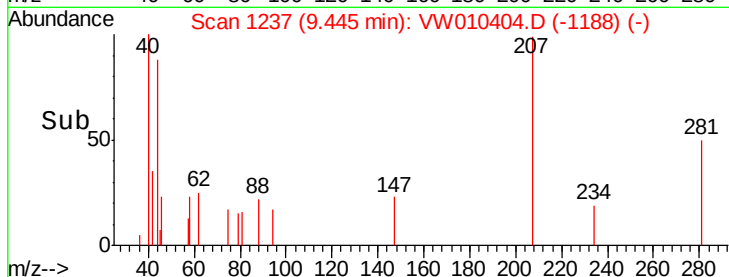
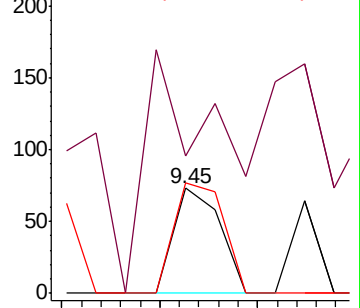
58 112.5 61.8 92.6#



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: 27.733 ug/l

RT: 10.32 min Scan# 1381

Delta R.T. -0.00 min

Lab File: VW010404.D

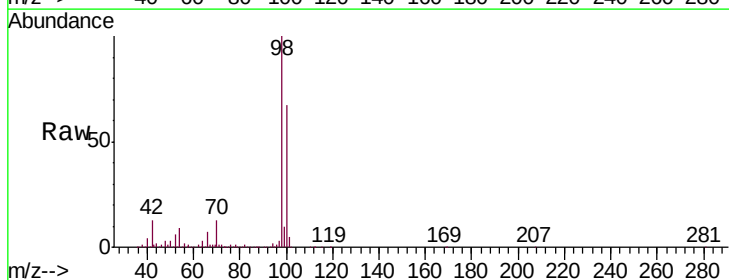
Acq: 12 May 2019 13:20

Tgt Ion: 98 Resp: 316503

Ion Ratio Lower Upper

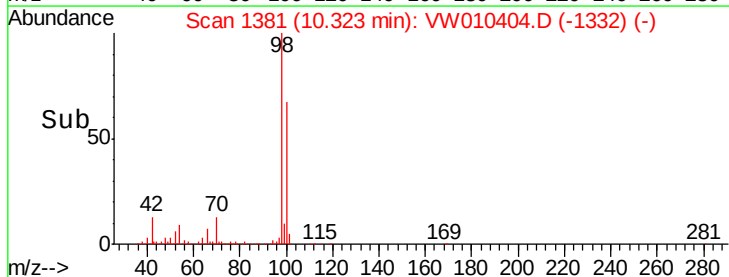
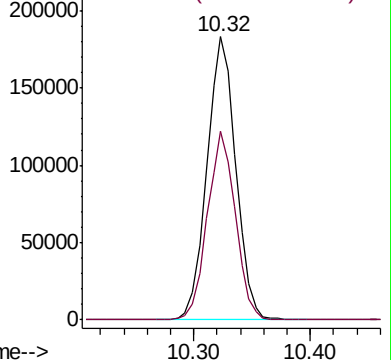
98 100

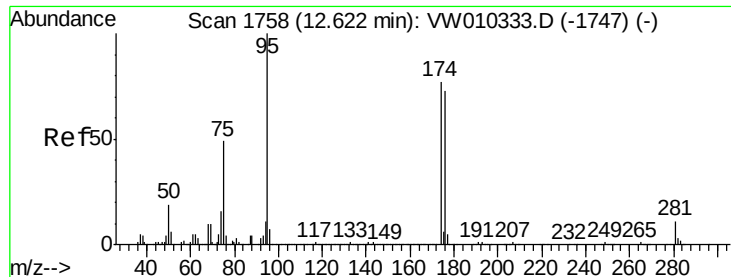
100 64.8 52.3 78.5



Abundance Ion 98.00 (97.70 to 98.70): VW

Ion 100.00 (99.70 to 100.70): VW





#62

4-Bromofluorobenzene

Concen: 25.588 ug/l

RT: 12.62 min Scan# 1758

Delta R.T. -0.00 min

Lab File: VW010404.D

Acq: 12 May 2019 13:20

Instrument :

MSVOA_W

ClientSampleId :

P026-SS007-0612-01

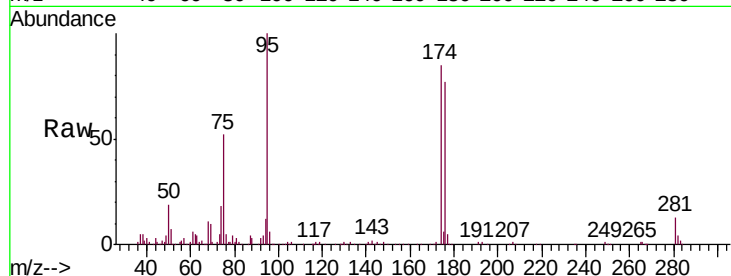
Tgt Ion: 95 Resp: 102791

Ion Ratio Lower Upper

95 100

174 80.2 0.0 151.4

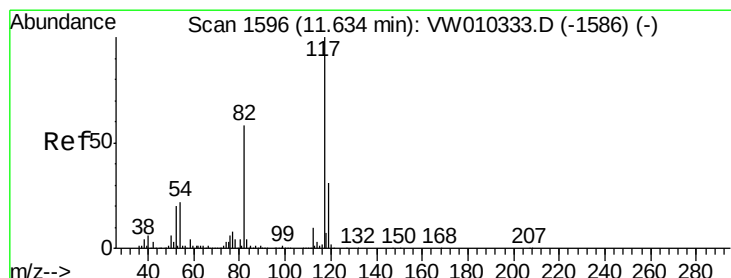
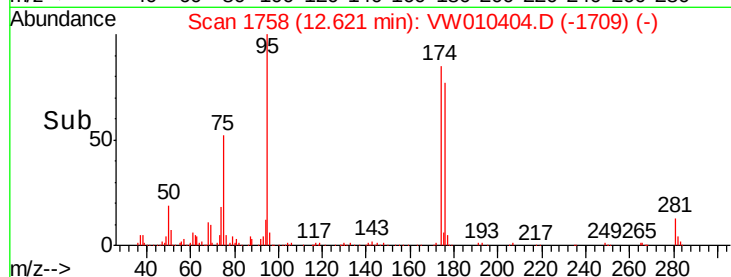
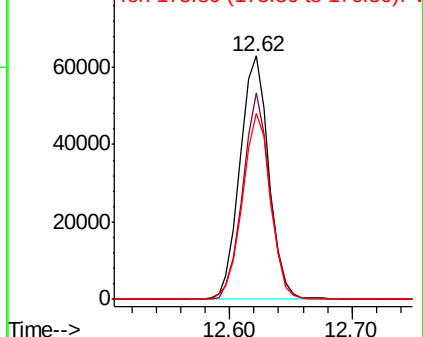
176 74.6 0.0 146.2



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: VW010404.D

Acq: 12 May 2019 13:20

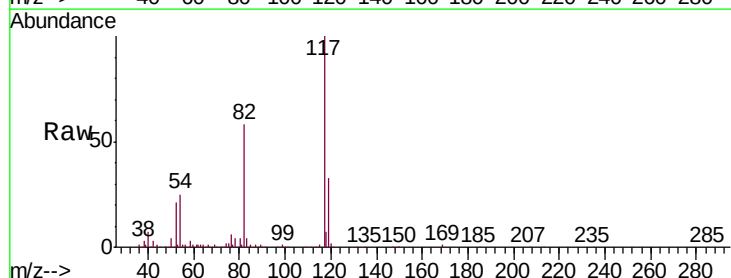
Tgt Ion: 117 Resp: 382075

Ion Ratio Lower Upper

117 100

82 57.5 45.2 67.8

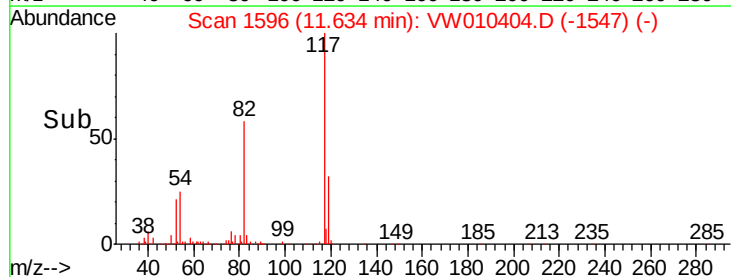
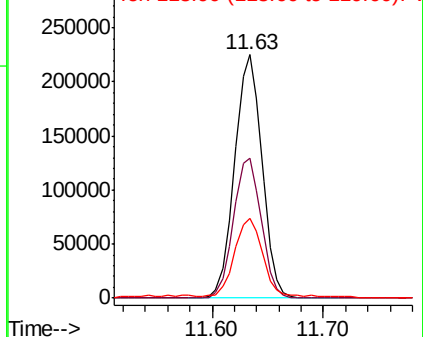
119 32.3 25.4 38.2

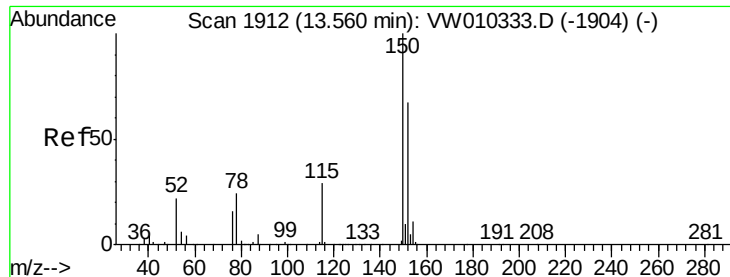


Abundance Ion 116.90 (116.60 to 117.60): VW

Ion 82.00 (81.70 to 82.70): VW

Ion 118.90 (118.60 to 119.60): VW



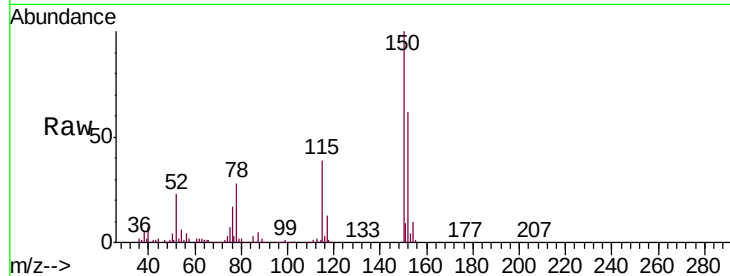


#72

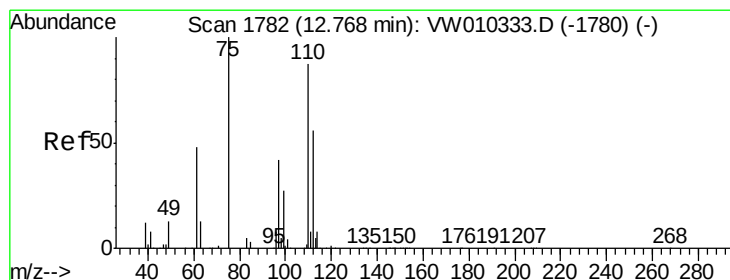
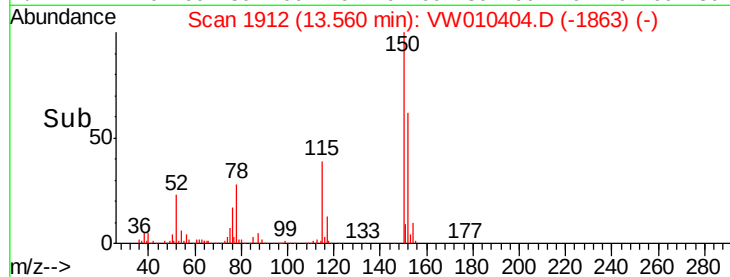
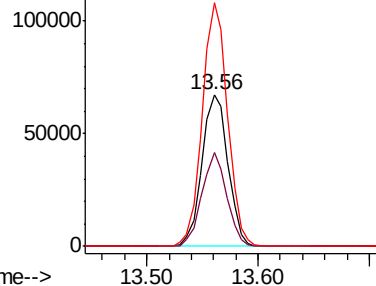
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 13.56 min Scan# 1912
Delta R.T. -0.00 min
Lab File: VW010404.D
Acq: 12 May 2019 13:20

Instrument :
MSVOA_W
ClientSampleId :
P026-SS007-0612-01

Tgt Ion	Ratio	Lower	Upper
152	100		
115	59.3	30.4	91.2
150	155.8	0.0	347.0



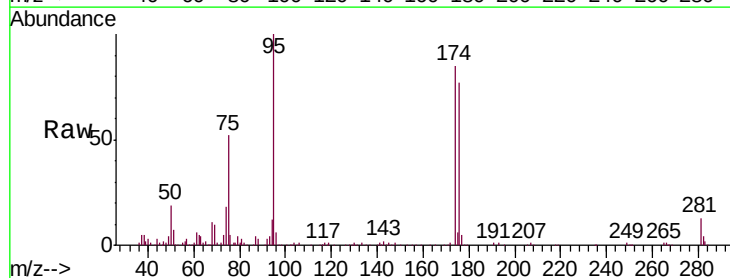
Abundance Ion 151.90 (151.60 to 152.60): V
Ion 114.90 (114.60 to 115.60): V
Ion 149.90 (149.60 to 150.60): V



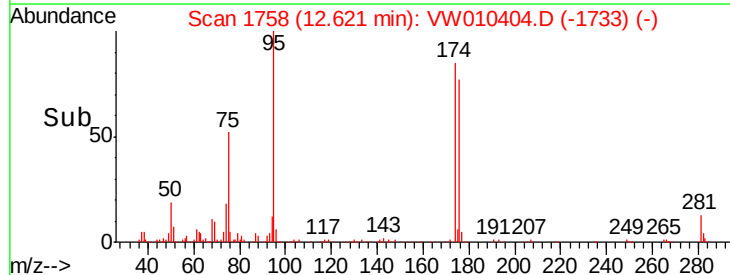
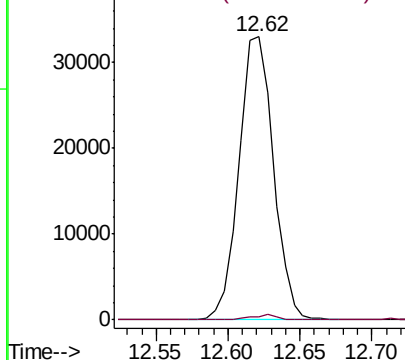
#76

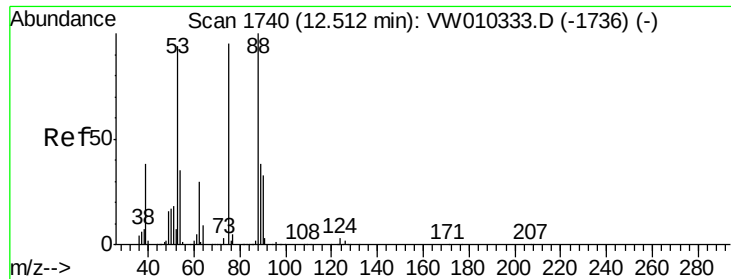
1,2,3-Trichloropropane
Concen: 43.342 ug/l
RT: 12.62 min Scan# 1758
Delta R.T. -0.15 min
Lab File: VW010404.D
Acq: 12 May 2019 13:20

Tgt Ion	Ratio	Lower	Upper
75	100		
77	1.4	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: 97.880 ug/l

RT: 12.62 min Scan# 1758

Delta R.T. 0.11 min

Lab File: VW010404.D

Acq: 12 May 2019 13:20

Instrument :

MSVOA_W

ClientSampleId :

P026-SS007-0612-01

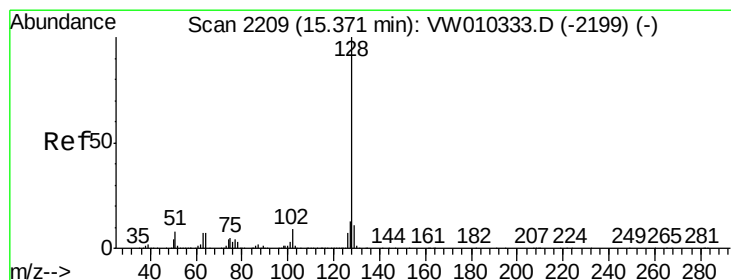
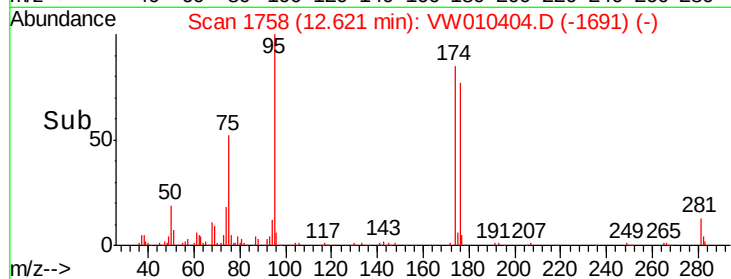
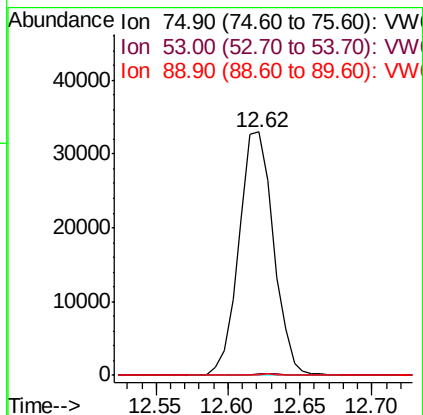
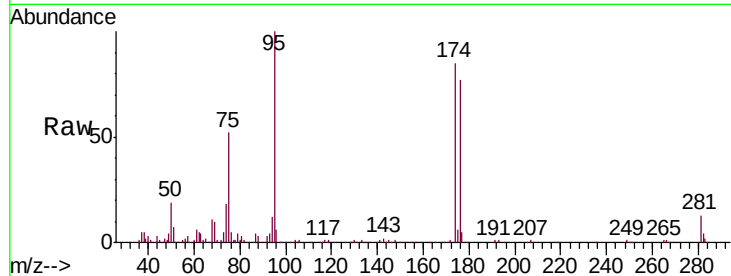
Tgt Ion: 75 Resp: 54953

Ion Ratio Lower Upper

75 100

53 0.4 89.8 134.8#

89 0.1 36.6 54.8#



#95

Naphthalene

Concen: 3.913 ug/l

RT: 15.38 min Scan# 2210

Delta R.T. 0.01 min

Lab File: VW010404.D

Acq: 12 May 2019 13:20

Tgt Ion: 128 Resp: 1694

Ion Ratio Lower Upper

128 100

127 6.1 10.6 15.8#

129 5.2 8.7 13.1#

