

Data File : VW010407.D
Acq On : 12 May 2019 14:42
Operator : SY/VA
Sample : K2718-21
Misc : 3.65G/5ML/MSVOA_W/SOIL
ALS Vial : 11 Sample Multiplier: 1

Instrument :
MSVOA_W
ClientSampleId :
P026-SS008-0002-01

Quant Time: May 13 05:23:57 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	337116	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	8.84	114	594899	50.00	ug/l	0.00
63) Chlorobenzene-d5	11.63	117	339340	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.56	152	88756	50.00	ug/l	0.00

System Monitoring Compounds

33) 1,2-Dichloroethane-d4	8.30	65	368260	102.75	ug/l	0.00
Spiked Amount	50.000		Recovery	=	205.50%	
35) Dibromofluoromethane	7.88	113	260023	74.69	ug/l	0.00
Spiked Amount	50.000		Recovery	=	149.38%	
50) Toluene-d8	10.32	98	336336	23.73	ug/l	0.00
Spiked Amount	50.000		Recovery	=	47.46%	
62) 4-Bromofluorobenzene	12.62	95	86967	17.43	ug/l	0.00
Spiked Amount	50.000		Recovery	=	34.86%	

Target Compounds

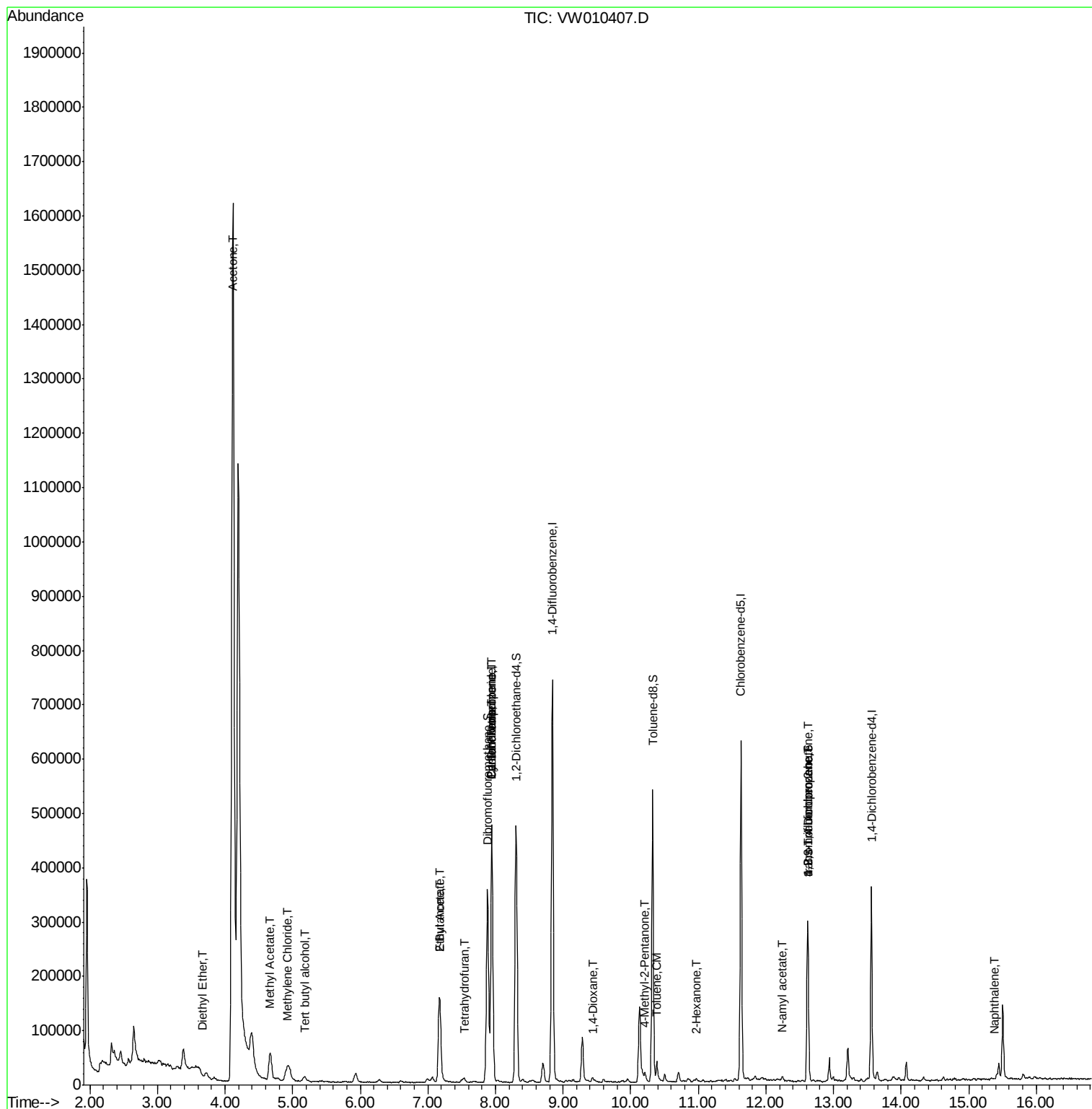
						Qvalue
8) Diethyl Ether	3.68	74	2175	1.152	ug/l	76
11) Tert butyl alcohol	5.18	59	14623	57.774	ug/l	98
16) Acetone	4.12	43	2830685	3029.665	ug/l	95
18) Methyl Acetate	4.67	43	94335	40.763	ug/l	94
20) Methylene Chloride	4.92	84	20824	5.344	ug/l	83
25) 2-Butanone	7.17	43	251853	176.203	ug/l	98
29) Tetrahydrofuran	7.54	42	4667	5.048	ug/l #	89
31) Cyclohexane	7.94	56	9106	1.240	ug/l #	1
36) 1,1-Dichloropropene	7.95	75	29616	4.591	ug/l #	50
37) Ethyl Acetate	7.17	43	251853	73.332	ug/l #	75
38) Carbon Tetrachloride	7.95	117	34130	6.173	ug/l #	18
49) 1,4-Dioxane	9.45	88	181	4.575	ug/l #	5
51) 4-Methyl-2-Pentanone	10.21	43	11072	3.390	ug/l	93
52) Toluene	10.39	92	13290	1.231	ug/l	99
59) 2-Hexanone	10.97	43	3684	1.595	ug/l	85
74) N-amyl acetate	12.24	43	4400	2.633	ug/l #	64
76) 1,2,3-Trichloropropane	12.62	75	46030	44.481	ug/l #	100
81) trans-1,4-Dichloro-2-buten	12.62	75	46030	100.452	ug/l #	5
95) Naphthalene	15.38	128	1747	3.997	ug/l #	91

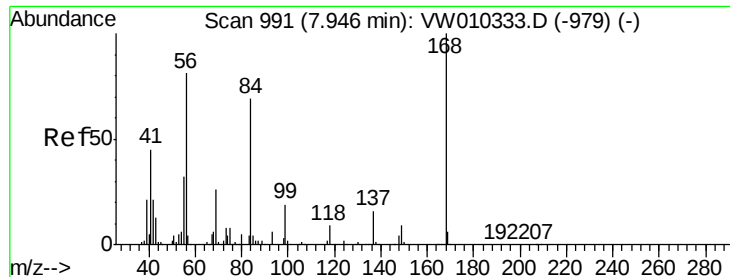
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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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: VW010407.D

Acq: 12 May 2019 14:42

Instrument :

MSVOA_W

ClientSampleId :

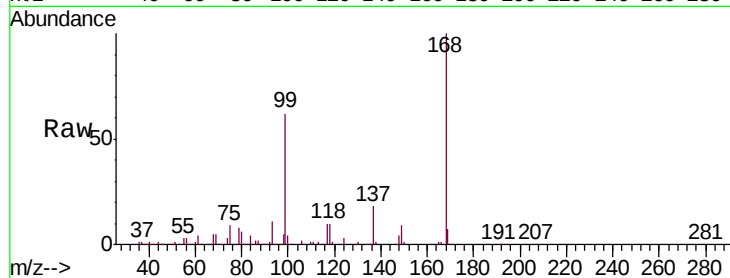
P026-SS008-0002-01

Tgt Ion:168 Resp: 337116

Ion Ratio Lower Upper

168 100

99 62.4 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

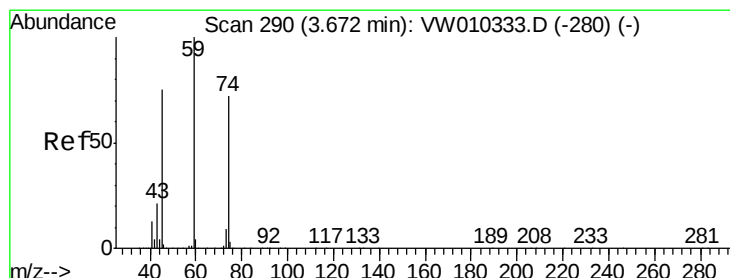
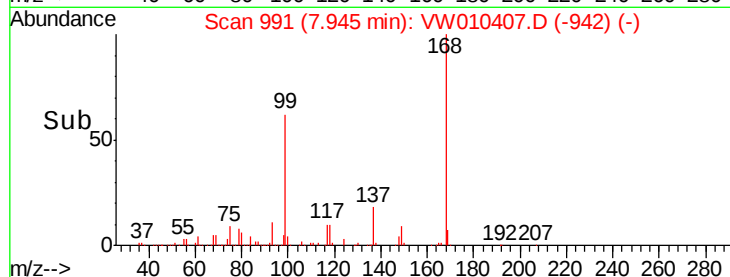
150000

100000

50000

0

Time-->



#8

Diethyl Ether

Concen: 1.152 ug/l

RT: 3.68 min Scan# 291

Delta R.T. 0.01 min

Lab File: VW010407.D

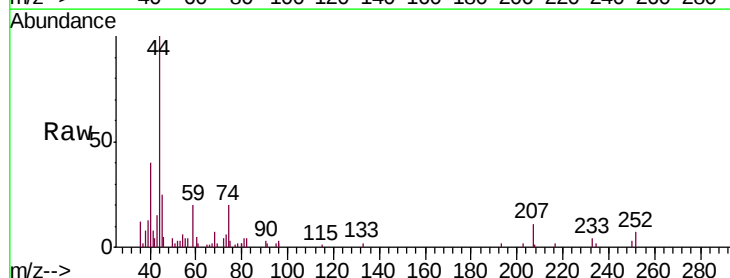
Acq: 12 May 2019 14:42

Tgt Ion: 74 Resp: 2175

Ion Ratio Lower Upper

74 100

45 86.9 56.0 168.0



Abundance Ion 74.00 (73.70 to 74.70): VW

Ion 45.00 (44.70 to 45.70): VW

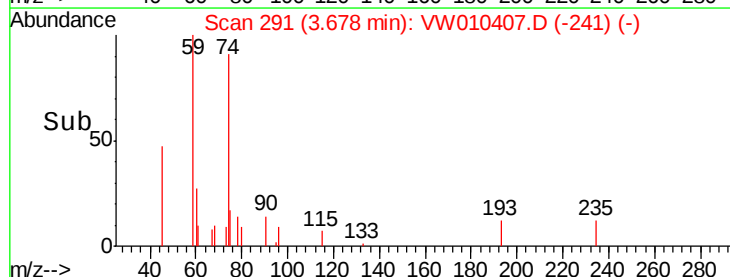
3.68

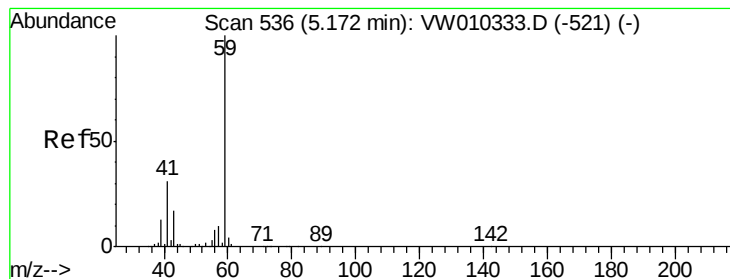
1000

500

0

Time-->



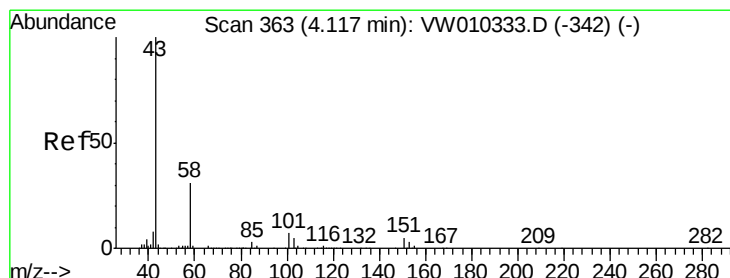
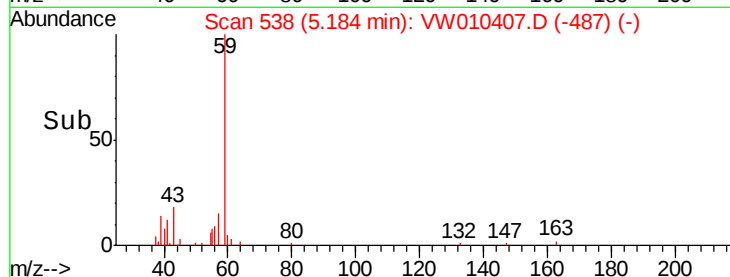
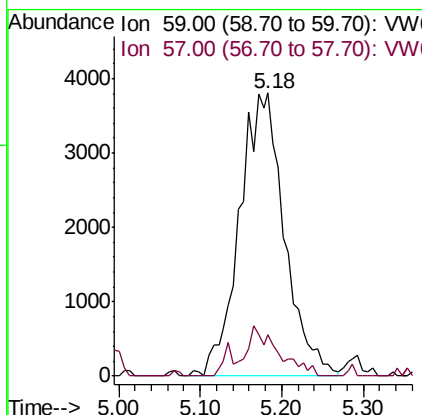
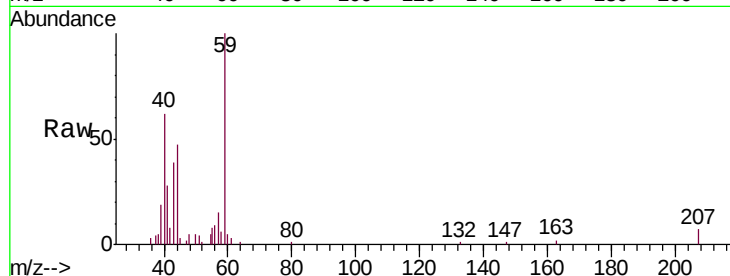


#11

Tert butyl alcohol
 Concen: 57.774 ug/l
 RT: 5.18 min Scan# 538
 Delta R.T. 0.01 min
 Lab File: VW010407.D
 Acq: 12 May 2019 14:42

Instrument :
 MSVOA_W
 ClientSampleId :
 P026-SS008-0002-01

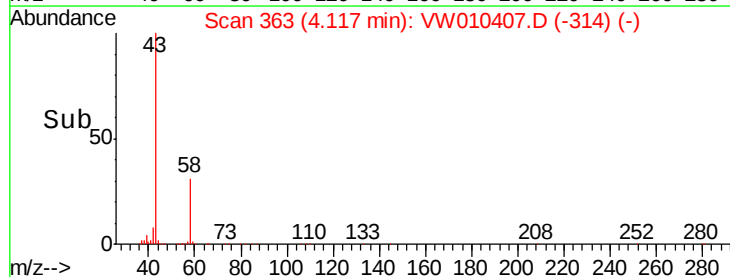
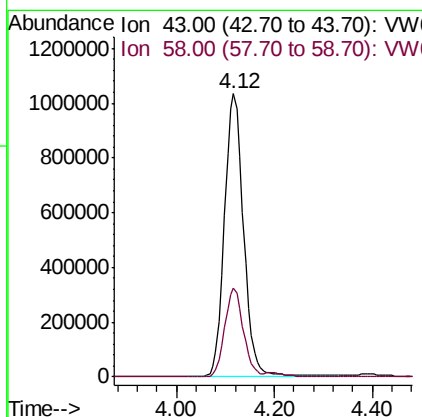
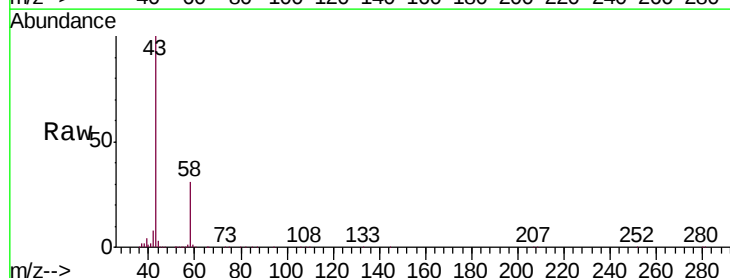
Tgt Ion: 59 Resp: 14623
 Ion Ratio Lower Upper
 59 100
 57 11.8 9.0 13.4

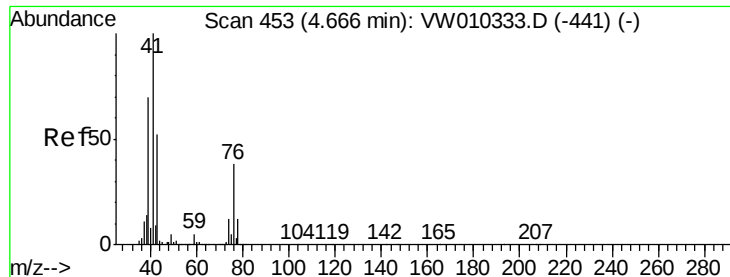


#16

Acetone
 Concen: 3029.665 ug/l
 RT: 4.12 min Scan# 363
 Delta R.T. -0.00 min
 Lab File: VW010407.D
 Acq: 12 May 2019 14:42

Tgt Ion: 43 Resp: 2830685
 Ion Ratio Lower Upper
 43 100
 58 31.3 22.7 34.1

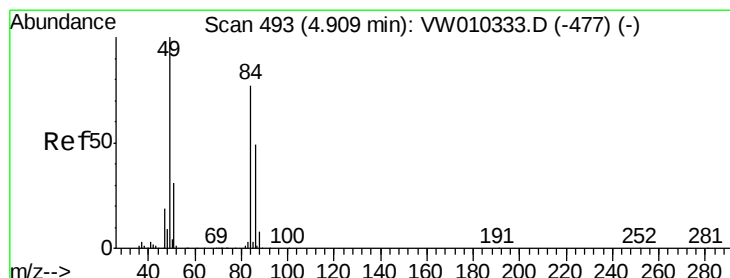
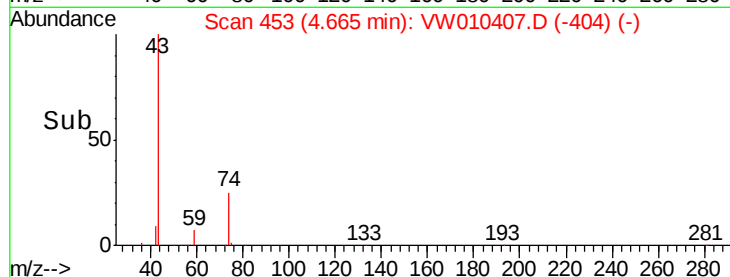
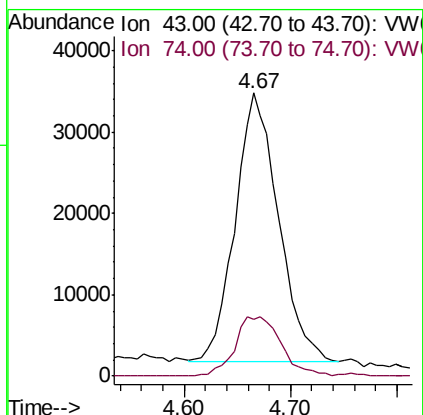
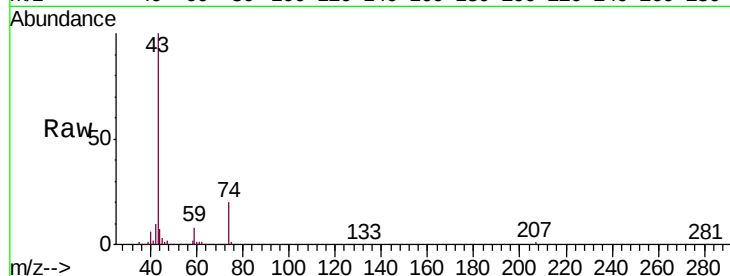




#18
Methyl Acetate
Concen: 40.763 ug/l
RT: 4.67 min Scan# 453
Delta R.T. -0.00 min
Lab File: VW010407.D
Acq: 12 May 2019 14:42

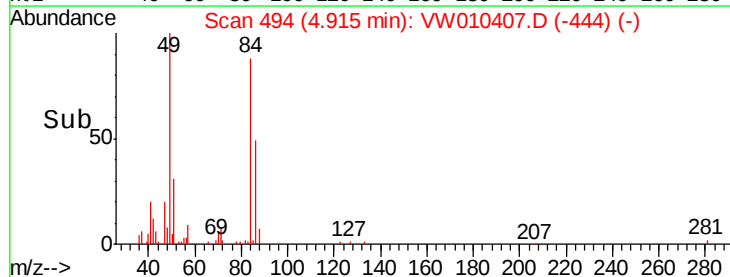
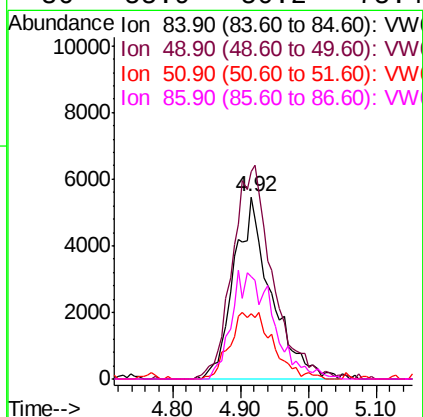
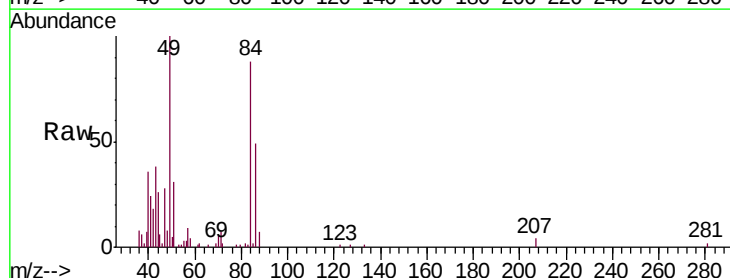
Instrument :
MSVOA_W
ClientSampleId :
P026-SS008-0002-01

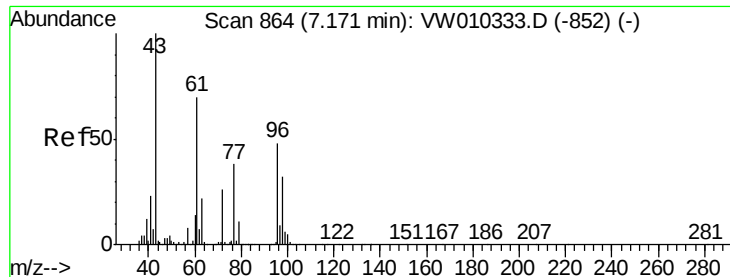
Tgt Ion: 43 Resp: 94335
Ion Ratio Lower Upper
43 100
74 23.6 16.8 25.2



#20
Methylene Chloride
Concen: 5.344 ug/l
RT: 4.92 min Scan# 494
Delta R.T. 0.01 min
Lab File: VW010407.D
Acq: 12 May 2019 14:42

Tgt Ion: 84 Resp: 20824
Ion Ratio Lower Upper
84 100
49 113.5 112.3 168.5
51 35.6 33.9 50.9
86 55.9 50.2 75.4





#25

2-Butanone

Concen: 176.203 ug/l

RT: 7.17 min Scan# 864

Delta R.T. -0.00 min

Lab File: VW010407.D

Acq: 12 May 2019 14:42

Instrument :

MSVOA_W

ClientSampleId :

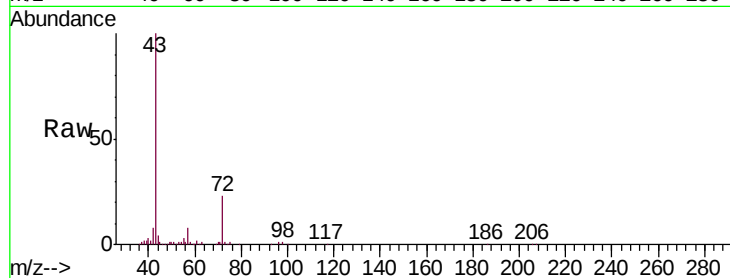
P026-SS008-0002-01

Tgt Ion: 43 Resp: 251853

Ion Ratio Lower Upper

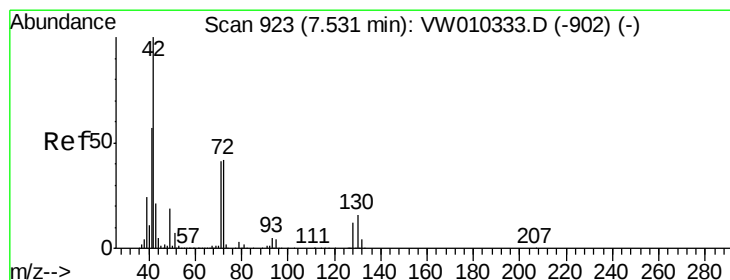
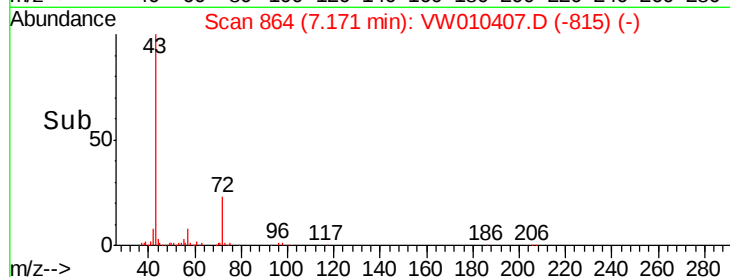
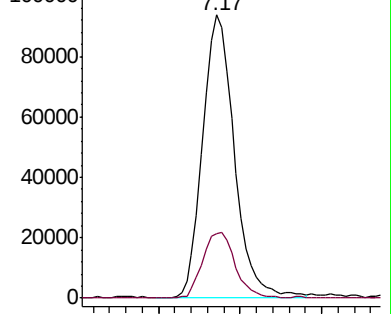
43 100

72 22.9 19.1 28.7



Abundance Ion 43.00 (42.70 to 43.70): VW

Ion 72.00 (71.70 to 72.70): VW



#29

Tetrahydrofuran

Concen: 5.048 ug/l

RT: 7.54 min Scan# 924

Delta R.T. 0.01 min

Lab File: VW010407.D

Acq: 12 May 2019 14:42

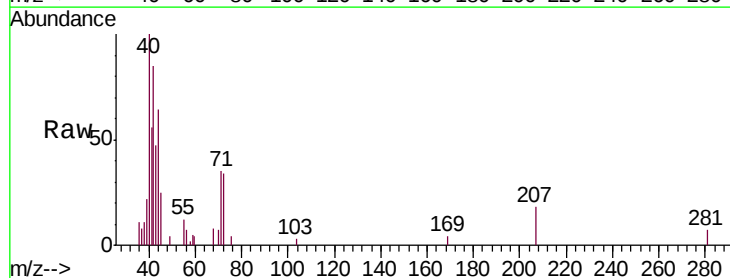
Tgt Ion: 42 Resp: 4667

Ion Ratio Lower Upper

42 100

72 47.0 31.0 46.6#

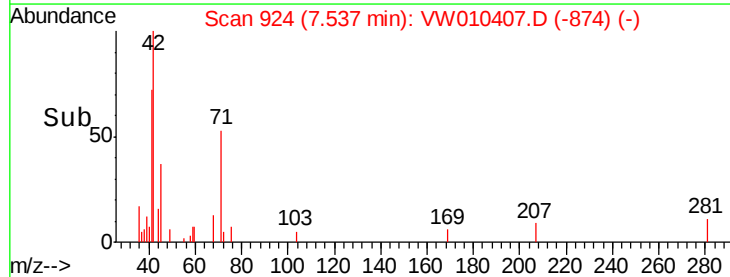
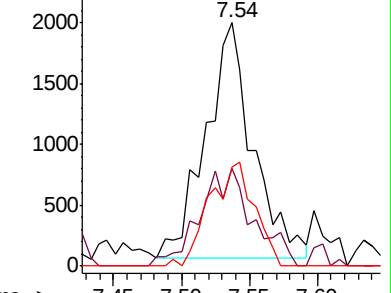
71 42.3 29.7 44.5

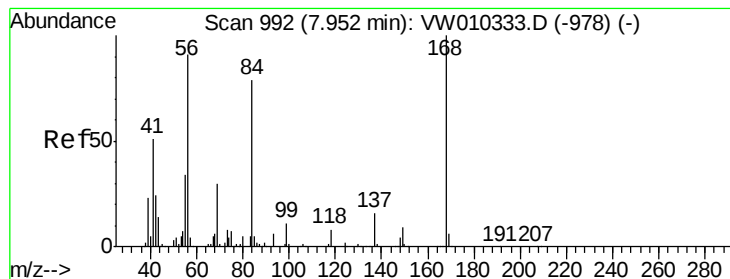


Abundance Ion 42.00 (41.70 to 42.70): VW

Ion 72.00 (71.70 to 72.70): VW

Ion 71.00 (70.70 to 71.70): VW





#31

Cyclohexane

Concen: 1.240 ug/l

RT: 7.94 min Scan# 990

Delta R.T. -0.01 min

Lab File: VW010407.D

Acq: 12 May 2019 14:42

Instrument :

MSVOA_W

ClientSampleId :

P026-SS008-0002-01

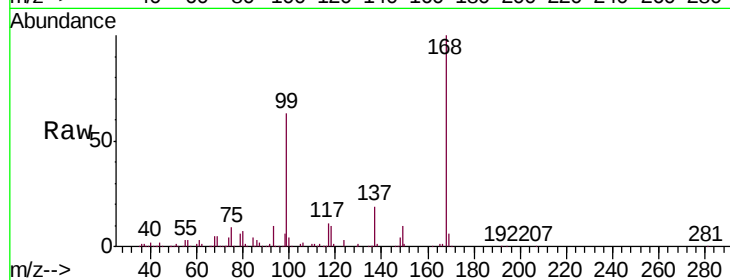
Tgt Ion: 56 Resp: 9106

Ion Ratio Lower Upper

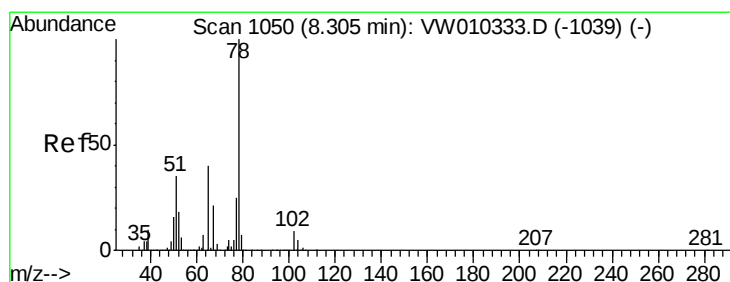
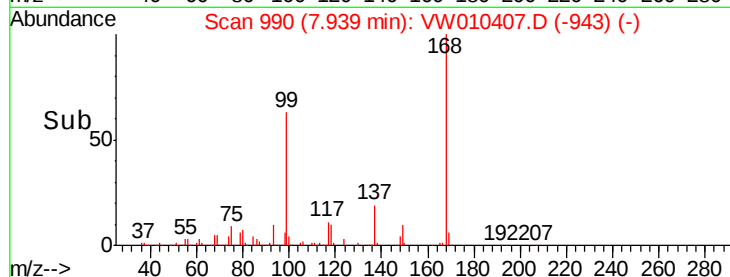
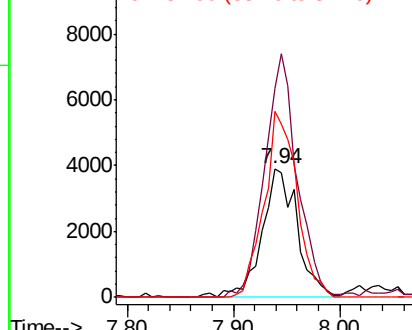
56 100

69 161.9 26.6 40.0#

84 144.0 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: 102.751 ug/l

RT: 8.30 min Scan# 1050

Delta R.T. -0.00 min

Lab File: VW010407.D

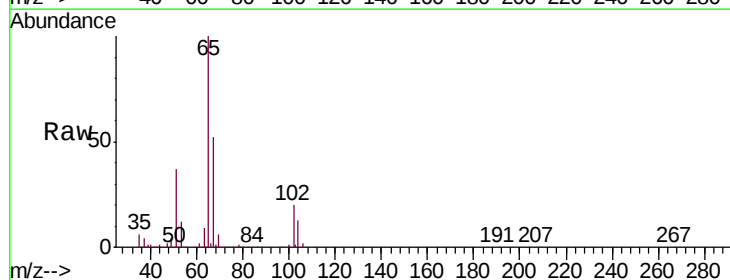
Acq: 12 May 2019 14:42

Tgt Ion: 65 Resp: 368260

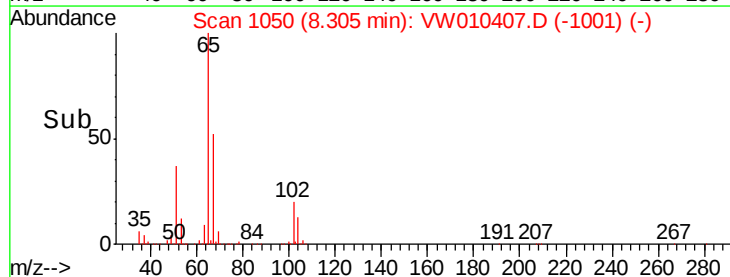
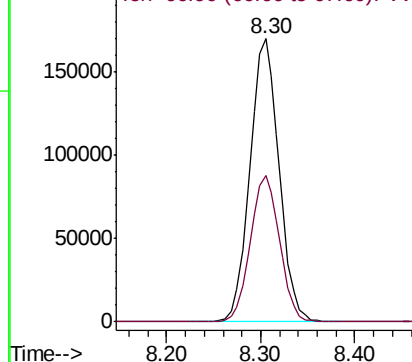
Ion Ratio Lower Upper

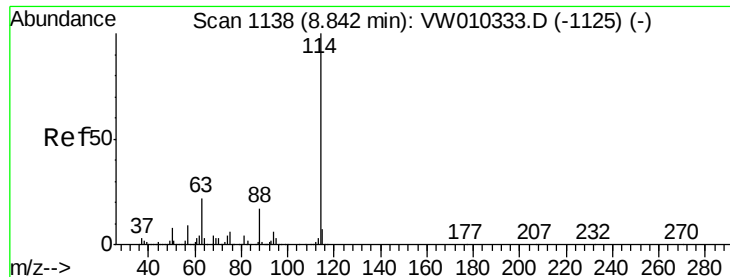
65 100

67 52.1 0.0 100.8



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

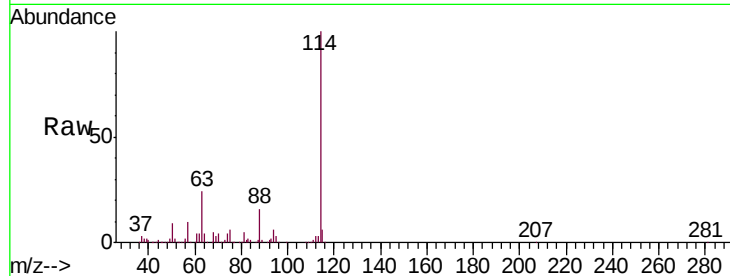




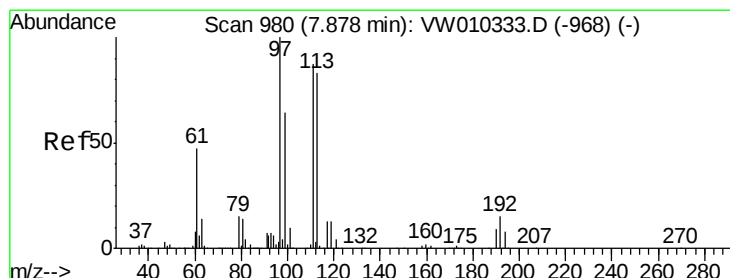
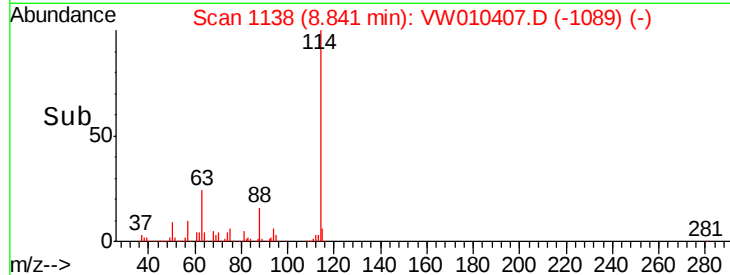
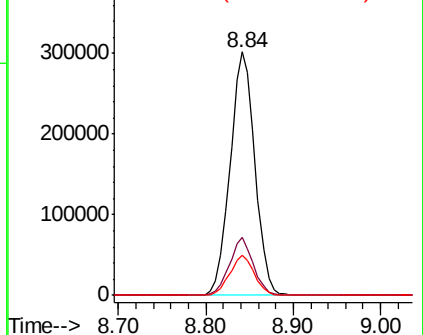
#34
 1,4-Difluorobenzene
 Concen: 50.000 ug/l
 RT: 8.84 min Scan# 1138
 Delta R.T. -0.00 min
 Lab File: VW010407.D
 Acq: 12 May 2019 14:42

Instrument :
 MSVOA_W
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 P026-SS008-0002-01

Tgt Ion	Ratio	Lower	Upper
114	100		
63	23.6	0.0	46.2
88	16.5	0.0	32.6

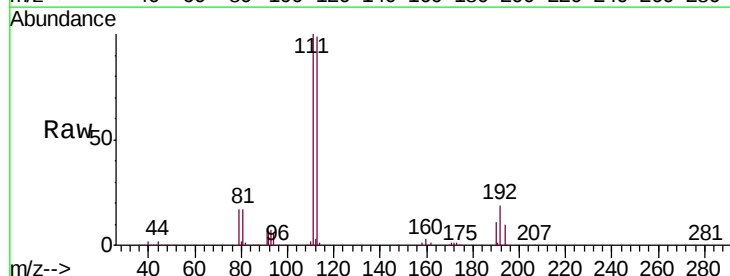


Abundance Ion 113.90 (113.60 to 114.60): V
 Ion 63.00 (62.70 to 63.70): VW
 Ion 87.90 (87.60 to 88.60): VW

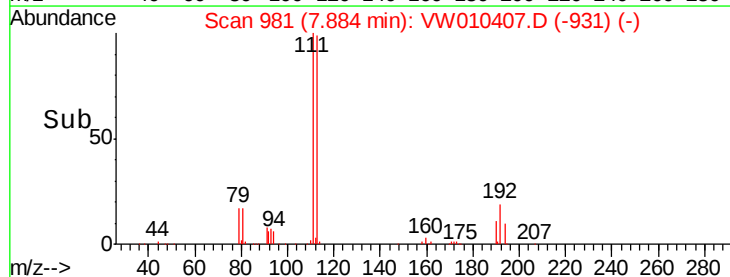
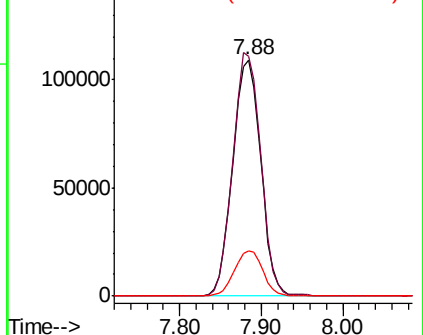


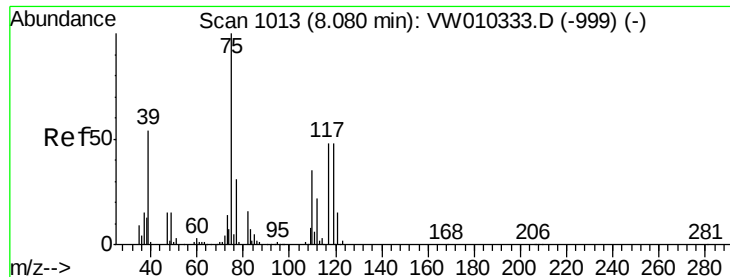
#35
 Dibromofluoromethane
 Concen: 74.692 ug/l
 RT: 7.88 min Scan# 981
 Delta R.T. 0.01 min
 Lab File: VW010407.D
 Acq: 12 May 2019 14:42

Tgt Ion	Ratio	Lower	Upper
113	100		
111	102.5	82.6	123.8
192	19.2	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

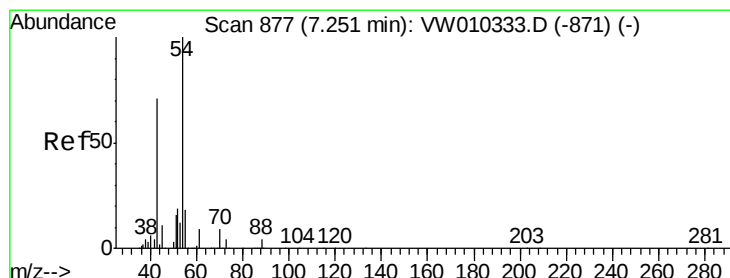
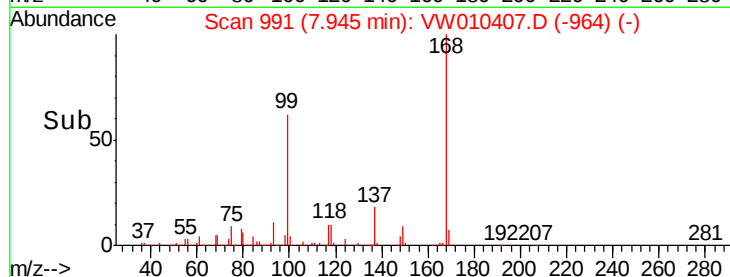
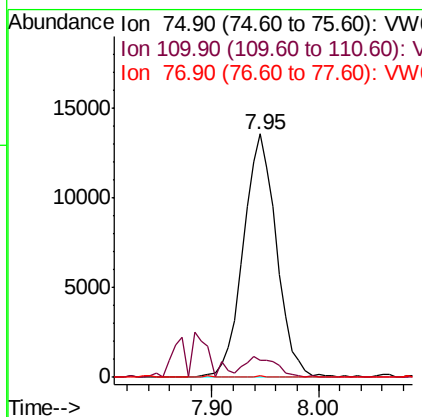
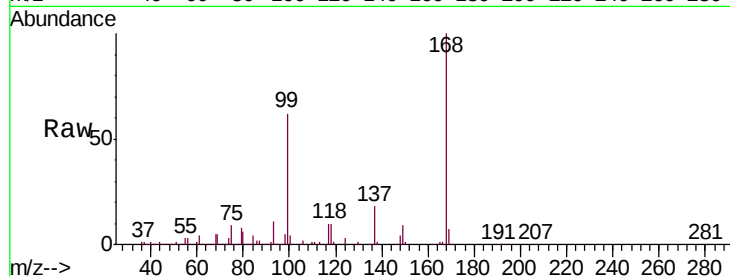




#36
 1,1-Dichloropropene
 Concen: 4.591 ug/l
 RT: 7.95 min Scan# 991
 Delta R.T. -0.13 min
 Lab File: VW010407.D
 Acq: 12 May 2019 14:42

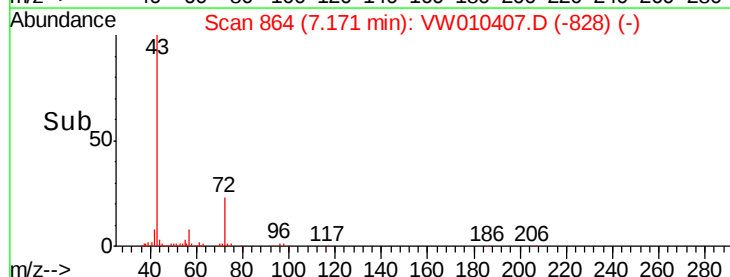
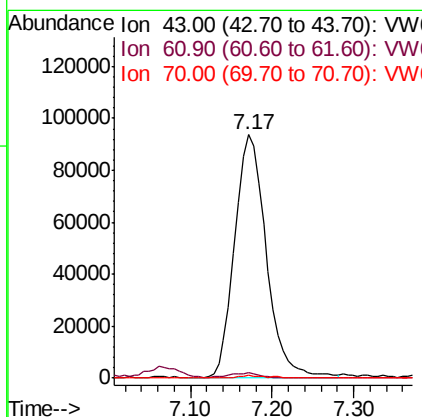
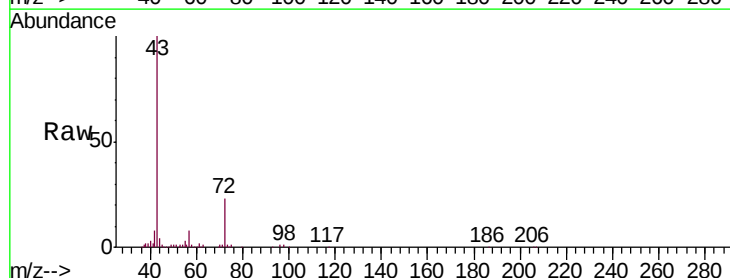
Instrument :
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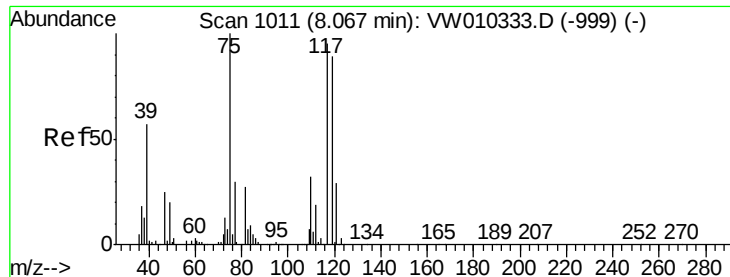
Tgt Ion	Ratio	Lower	Upper
75	100		
110	8.4	16.6	49.8#
77	0.0	24.8	37.2#



#37
 Ethyl Acetate
 Concen: 73.332 ug/l
 RT: 7.17 min Scan# 864
 Delta R.T. -0.08 min
 Lab File: VW010407.D
 Acq: 12 May 2019 14:42

Tgt Ion	Ratio	Lower	Upper
43	100		
61	1.9	9.8	14.8#
70	1.0	7.4	11.0#





#38

Carbon Tetrachloride

Concen: 6.173 ug/l

RT: 7.95 min Scan# 991

Delta R.T. -0.12 min

Lab File: VW010407.D

Acq: 12 May 2019 14:42

Instrument :

MSVOA_W

ClientSampleId :

P026-SS008-0002-01

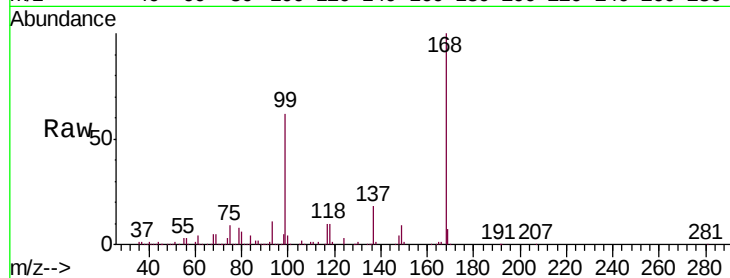
Tgt Ion:117 Resp: 34130

Ion Ratio Lower Upper

117 100

119 6.9 75.3 112.9#

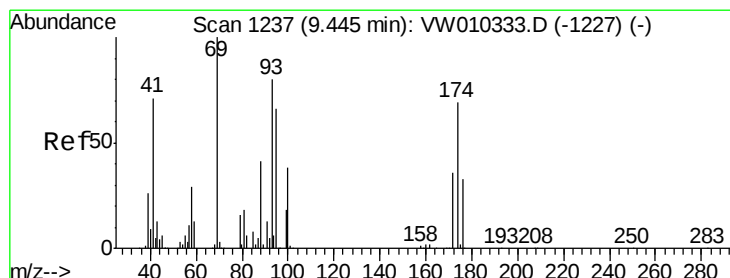
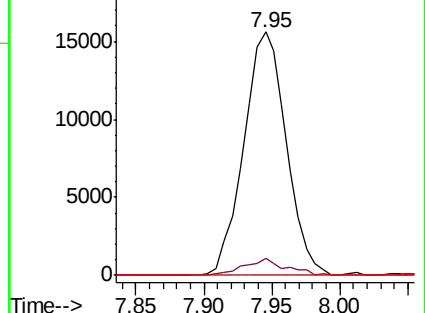
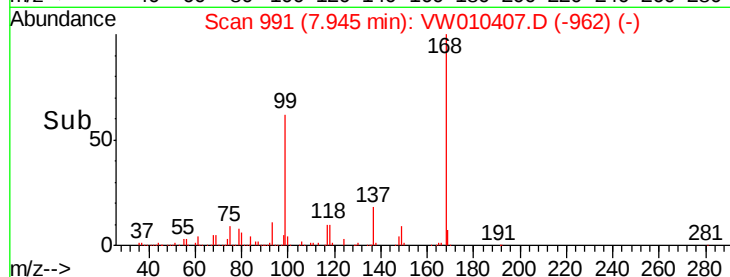
121 0.0 24.4 36.6#



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: 4.575 ug/l

RT: 9.45 min Scan# 1238

Delta R.T. 0.01 min

Lab File: VW010407.D

Acq: 12 May 2019 14:42

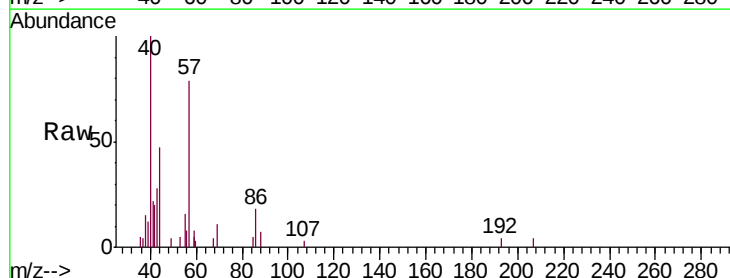
Tgt Ion: 88 Resp: 181

Ion Ratio Lower Upper

88 100

43 0.0 31.9 47.9#

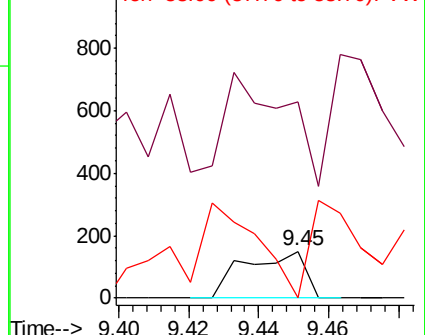
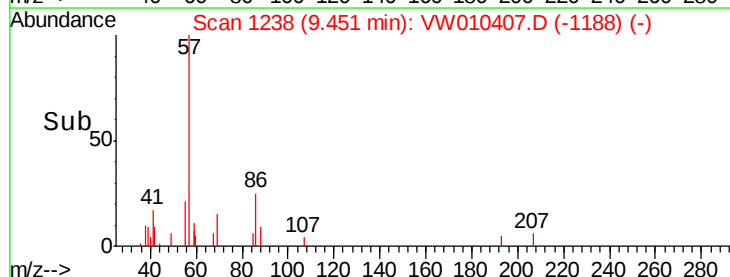
58 172.4 61.8 92.6#

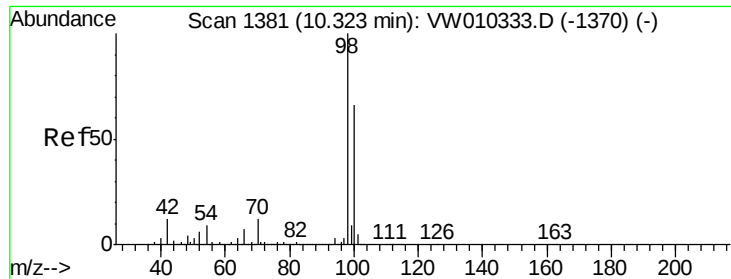


Abundance Ion 88.00 (87.70 to 88.70): VW

Ion 43.00 (42.70 to 43.70): VW

Ion 58.00 (57.70 to 58.70): VW





#50

Toluene-d8

Concen: 23.726 ug/l

RT: 10.32 min Scan# 1381

Delta R.T. -0.00 min

Lab File: VW010407.D

Acq: 12 May 2019 14:42

Instrument :

MSVOA_W

ClientSampleId :

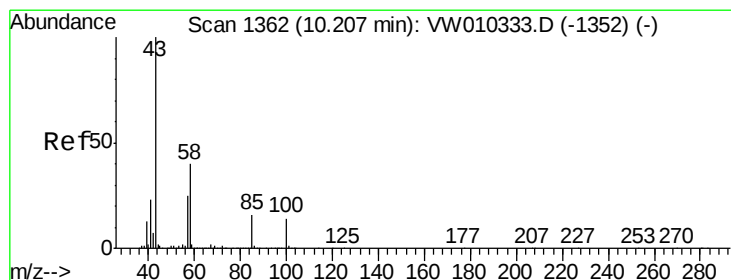
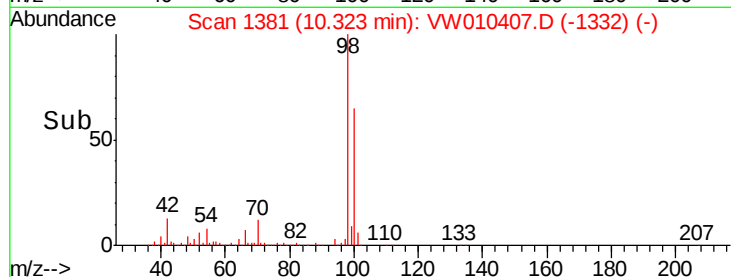
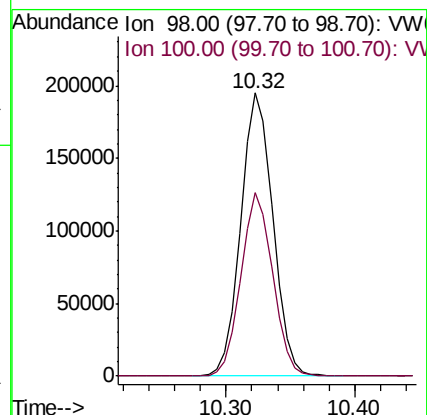
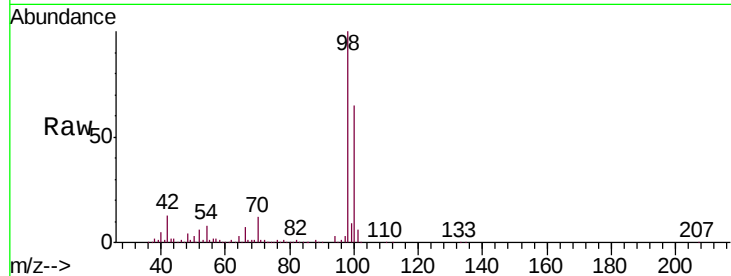
P026-SS008-0002-01

Tgt Ion: 98 Resp: 336336

Ion Ratio Lower Upper

98 100

100 64.5 52.3 78.5



#51

4-Methyl-2-Pentanone

Concen: 3.390 ug/l

RT: 10.21 min Scan# 1363

Delta R.T. 0.01 min

Lab File: VW010407.D

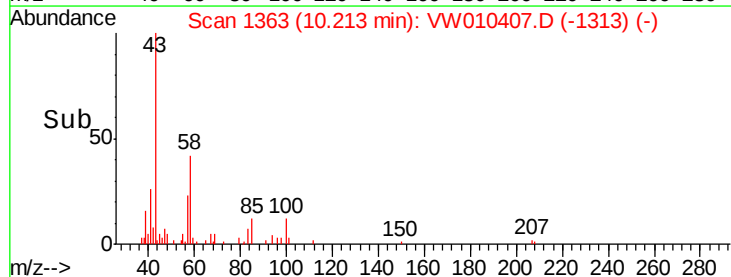
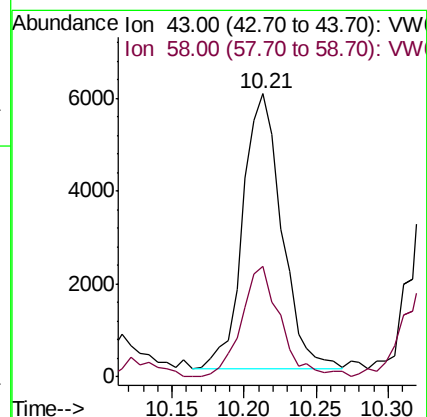
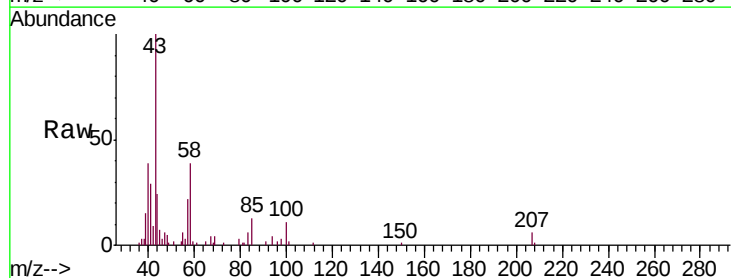
Acq: 12 May 2019 14:42

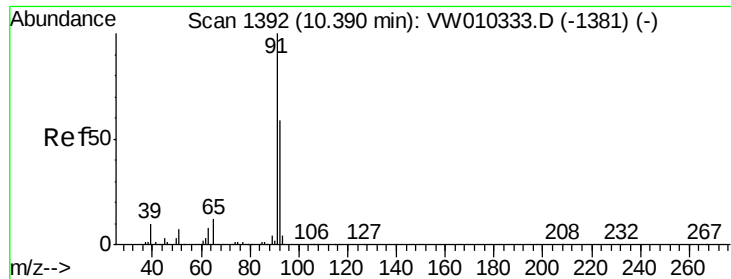
Tgt Ion: 43 Resp: 11072

Ion Ratio Lower Upper

43 100

58 40.4 28.9 43.3





#52

Toluene

Concen: 1.231 ug/l

RT: 10.39 min Scan# 1392

Delta R.T. -0.00 min

Lab File: VW010407.D

Acq: 12 May 2019 14:42

Instrument :

MSVOA_W

ClientSampleId :

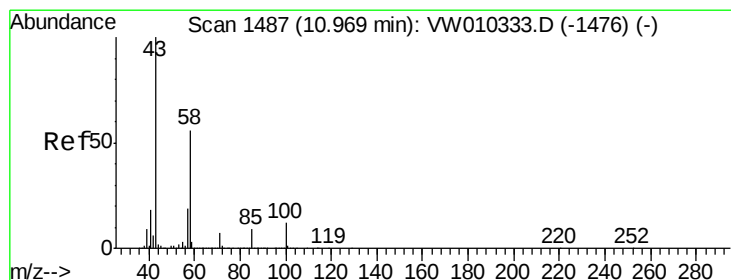
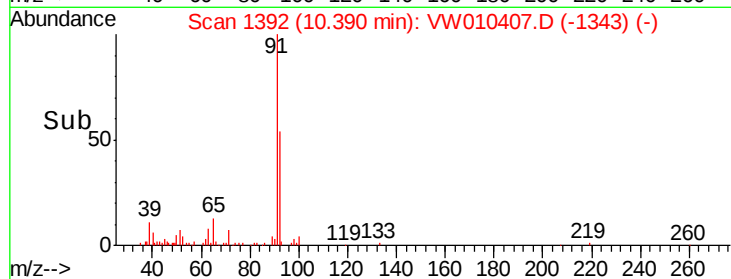
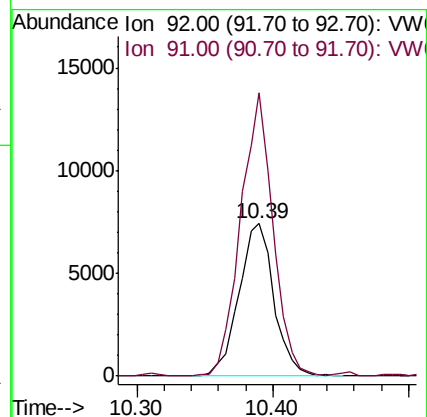
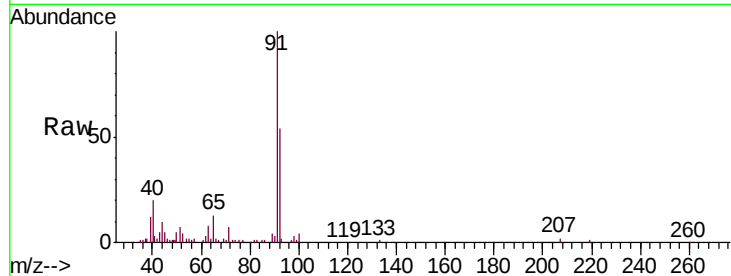
P026-SS008-0002-01

Tgt Ion: 92 Resp: 13290

Ion Ratio Lower Upper

92 100

91 172.1 138.5 207.7



#59

2-Hexanone

Concen: 1.595 ug/l

RT: 10.97 min Scan# 1487

Delta R.T. -0.00 min

Lab File: VW010407.D

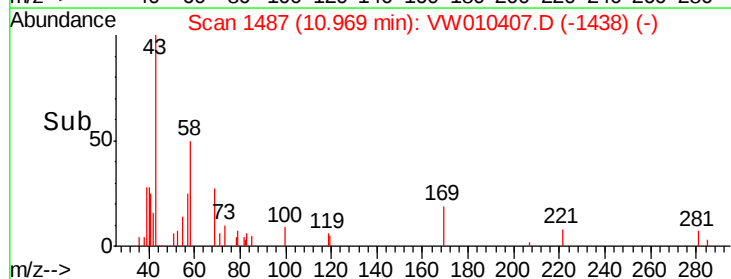
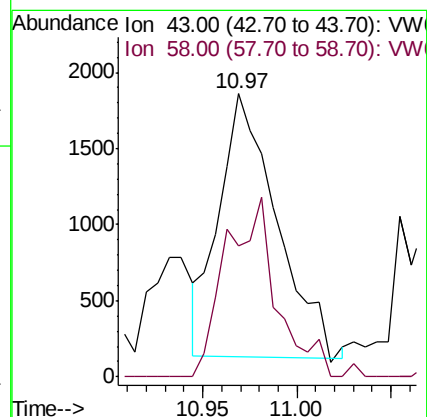
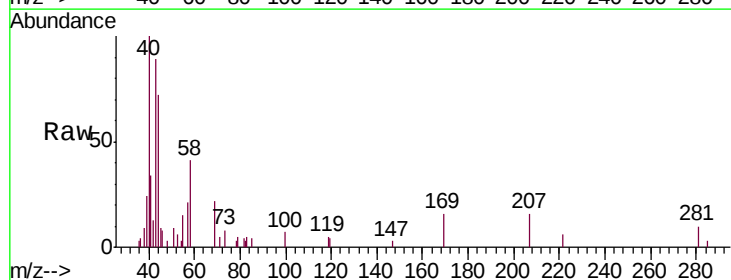
Acq: 12 May 2019 14:42

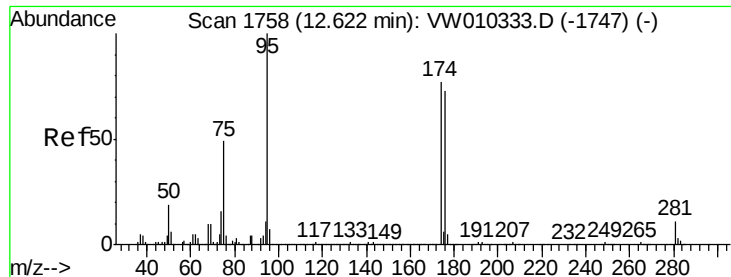
Tgt Ion: 43 Resp: 3684

Ion Ratio Lower Upper

43 100

58 59.9 24.9 74.7





#62

4-Bromofluorobenzene

Concen: 17.428 ug/l

RT: 12.62 min Scan# 1758

Delta R.T. -0.00 min

Lab File: VW010407.D

Acq: 12 May 2019 14:42

Instrument :

MSVOA_W

ClientSampleId :

P026-SS008-0002-01

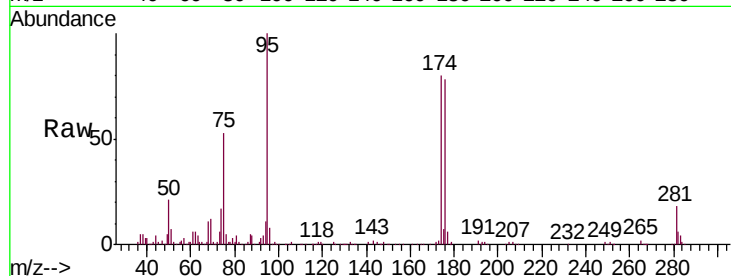
Tgt Ion: 95 Resp: 86967

Ion Ratio Lower Upper

95 100

174 77.0 0.0 151.4

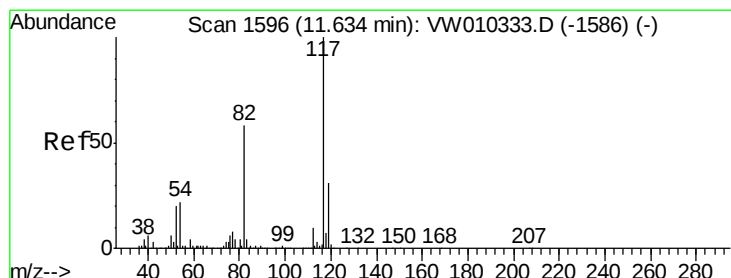
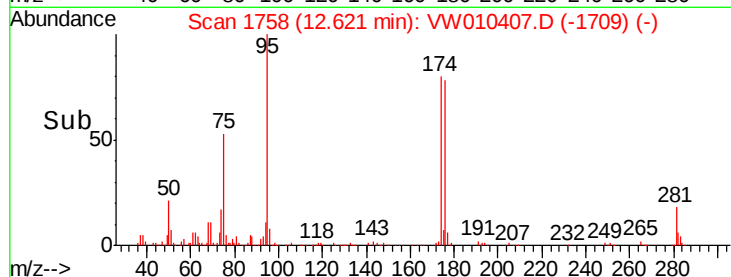
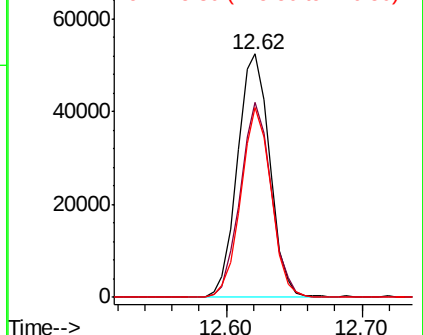
176 73.2 0.0 146.2



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: VW010407.D

Acq: 12 May 2019 14:42

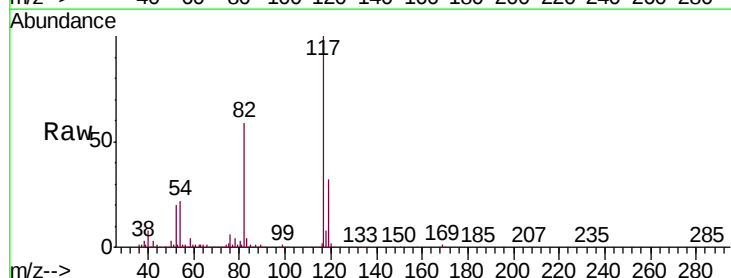
Tgt Ion: 117 Resp: 339340

Ion Ratio Lower Upper

117 100

82 59.4 45.2 67.8

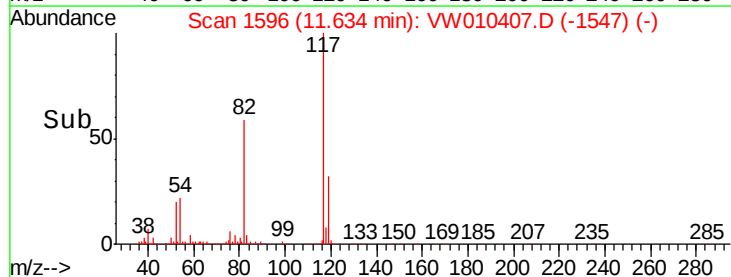
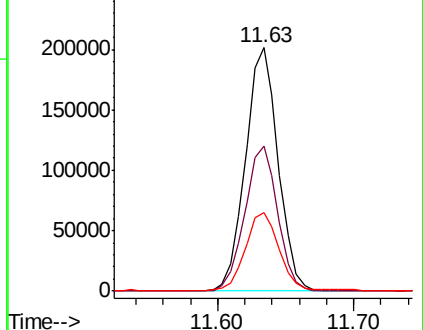
119 32.0 25.4 38.2

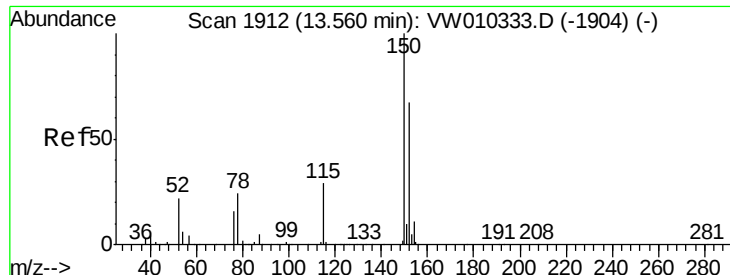


Abundance Ion 116.90 (116.60 to 117.60): VW

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: VW010407.D

Acq: 12 May 2019 14:42

Instrument :

MSVOA_W

ClientSampleId :

P026-SS008-0002-01

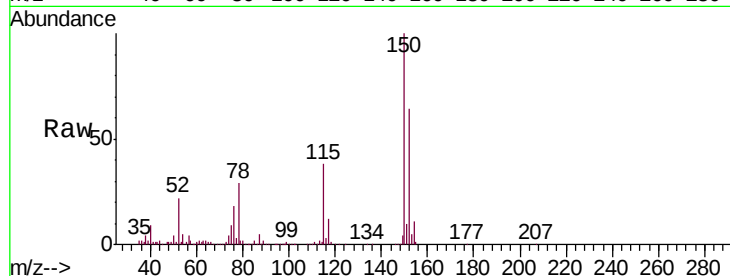
Tgt Ion:152 Resp: 88756

Ion Ratio Lower Upper

152 100

115 59.8 30.4 91.2

150 157.8 0.0 347.0

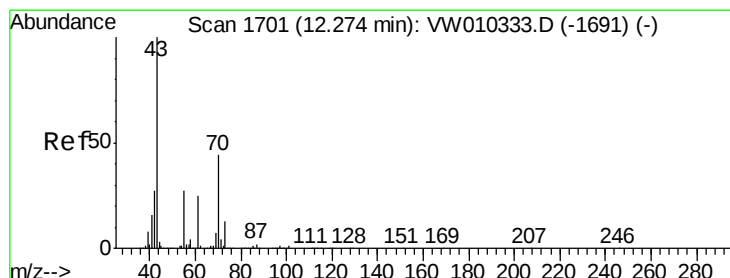
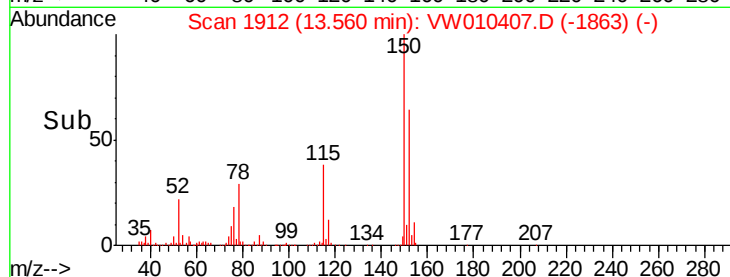
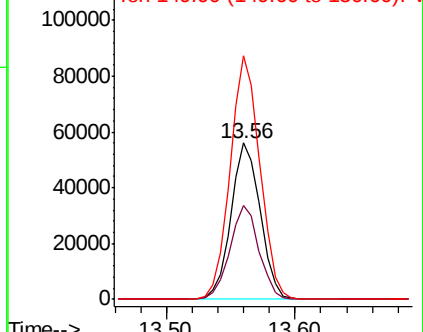


Abundance

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



#74

N-ethyl acetate

Concen: 2.633 ug/l

RT: 12.24 min Scan# 1696

Delta R.T. -0.03 min

Lab File: VW010407.D

Acq: 12 May 2019 14:42

Tgt Ion: 43 Resp: 4400

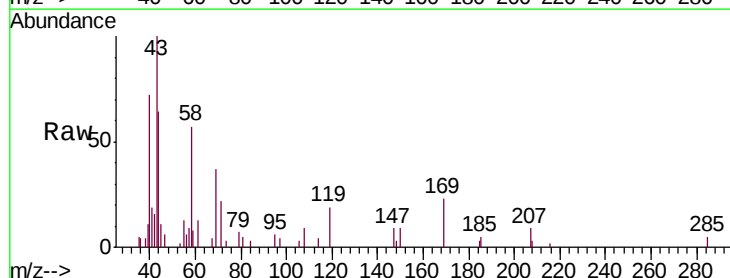
Ion Ratio Lower Upper

43 100

70 0.0 31.3 46.9#

55 19.6 20.0 30.0#

61 15.7 17.8 26.8#



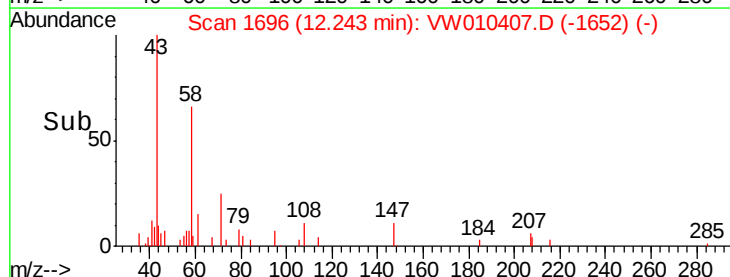
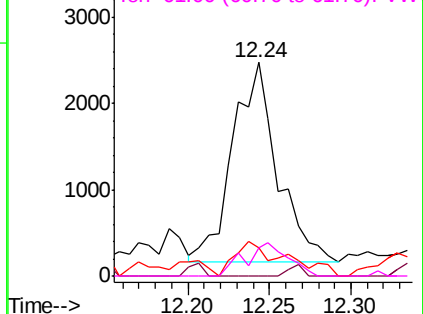
Abundance

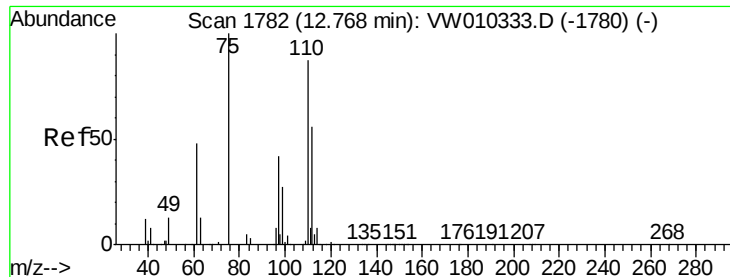
Ion 43.00 (42.70 to 43.70): VV

Ion 70.00 (69.70 to 70.70): VV

Ion 55.00 (54.70 to 55.70): VV

Ion 61.00 (60.70 to 61.70): VV





#76

1,2,3-Trichloropropane

Concen: 44.481 ug/l

RT: 12.62 min Scan# 1758

Delta R.T. -0.15 min

Lab File: VW010407.D

Acq: 12 May 2019 14:42

Instrument :

MSVOA_W

ClientSampleId :

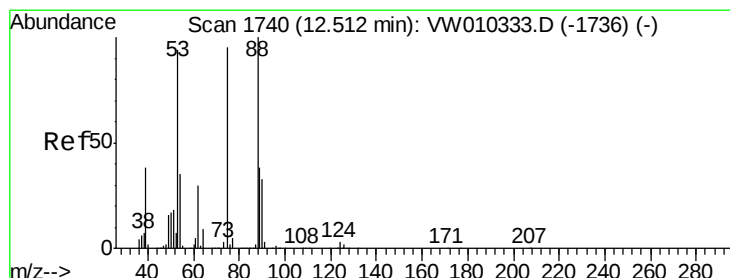
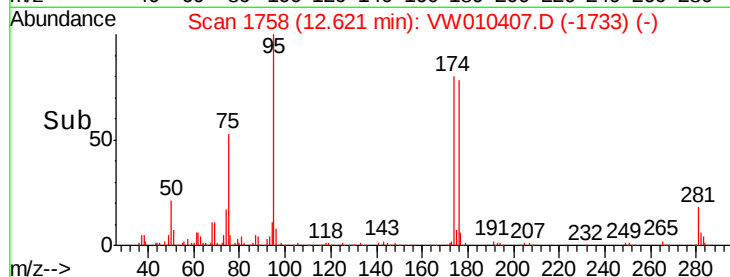
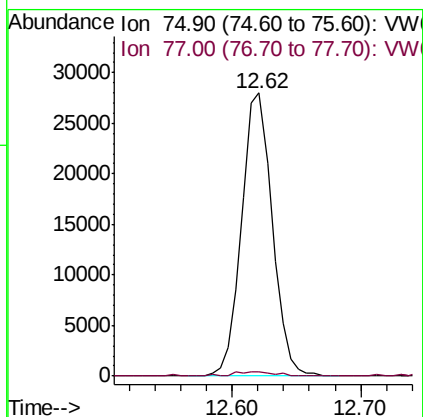
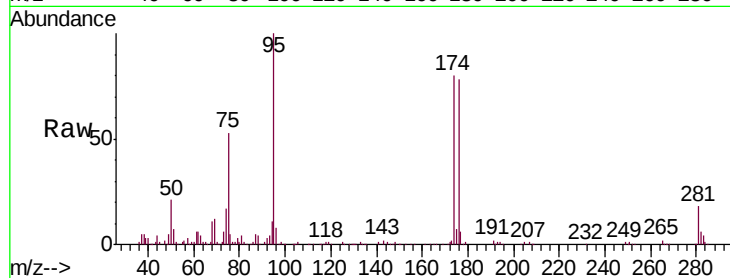
P026-SS008-0002-01

Tgt Ion: 75 Resp: 46030

Ion Ratio Lower Upper

75 100

77 2.1 0.0 0.0#



#81

trans-1,4-Dichloro-2-butene

Concen: 100.452 ug/l

RT: 12.62 min Scan# 1758

Delta R.T. 0.11 min

Lab File: VW010407.D

Acq: 12 May 2019 14:42

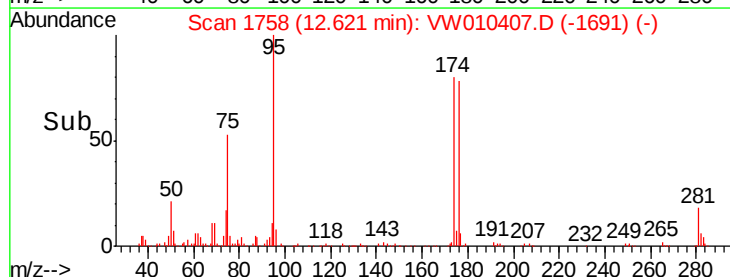
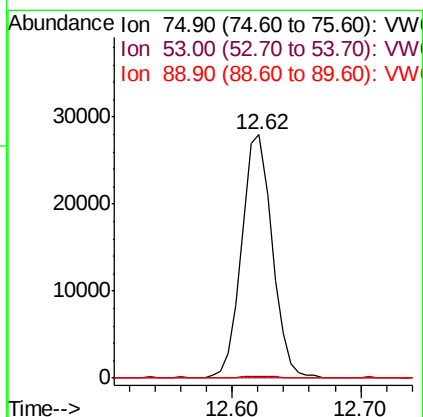
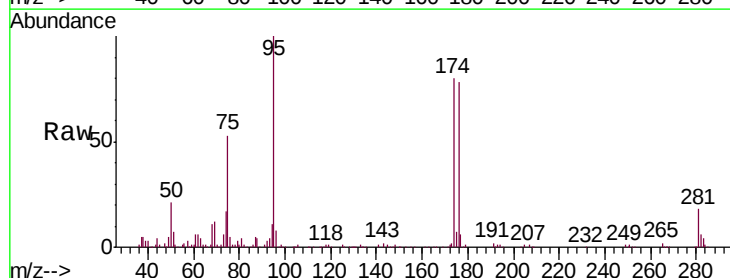
Tgt Ion: 75 Resp: 46030

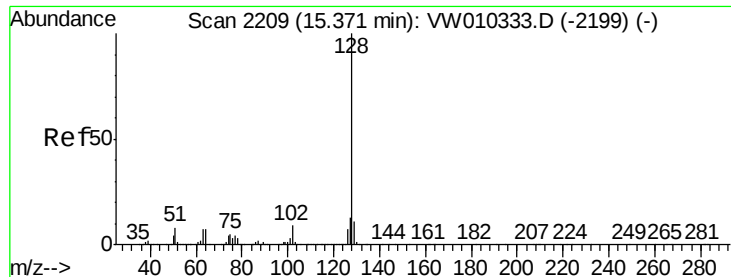
Ion Ratio Lower Upper

75 100

53 0.0 89.8 134.8#

89 0.3 36.6 54.8#





#95

Naphthalene

Concen: 3.997 ug/l

RT: 15.38 min Scan# 2210

Delta R.T. 0.01 min

Lab File: VW010407.D

Acq: 12 May 2019 14:42

Instrument :

MSVOA_W

ClientSampleId :

P026-SS008-0002-01

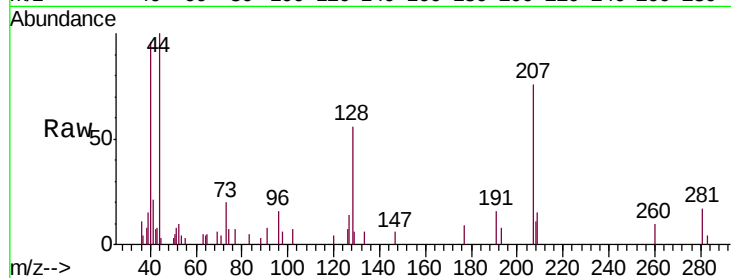
Tgt Ion:128 Resp: 1747

Ion Ratio Lower Upper

128 100

127 14.3 10.6 15.8

129 4.4 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

