

Data File : VW010643.D
Acq On : 31 May 2019 18:14
Operator : SY/VA
Sample : K3097-20
Misc : 5.09G/5ML/MSVOA_W/SOIL
ALS Vial : 16 Sample Multiplier: 1

Instrument :
MSVOA_W
ClientSampleId :
0440-PR-3(PASSAIC)

Quant Time: Jun 01 04:52:54 2019
Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_W\METHOD\82W052019S.M
Quant Title : SW846 8260
QLast Update : Tue May 21 06:38:43 2019
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	7.95	168	51046	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	8.84	114	71175	50.00	ug/l	0.00
63) Chlorobenzene-d5	11.63	117	57768	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.56	152	24440	50.00	ug/l	0.00

System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	8.31	65	18841	35.76	ug/l	0.00
Spiked Amount	50.000		Recovery	=	71.52%	
35) Dibromofluoromethane	7.88	113	18317	42.41	ug/l	0.00
Spiked Amount	50.000		Recovery	=	84.82%	
50) Toluene-d8	10.32	98	83475	50.59	ug/l	0.00
Spiked Amount	50.000		Recovery	=	101.18%	
62) 4-Bromofluorobenzene	12.62	95	27864	42.40	ug/l	0.00
Spiked Amount	50.000		Recovery	=	84.80%	

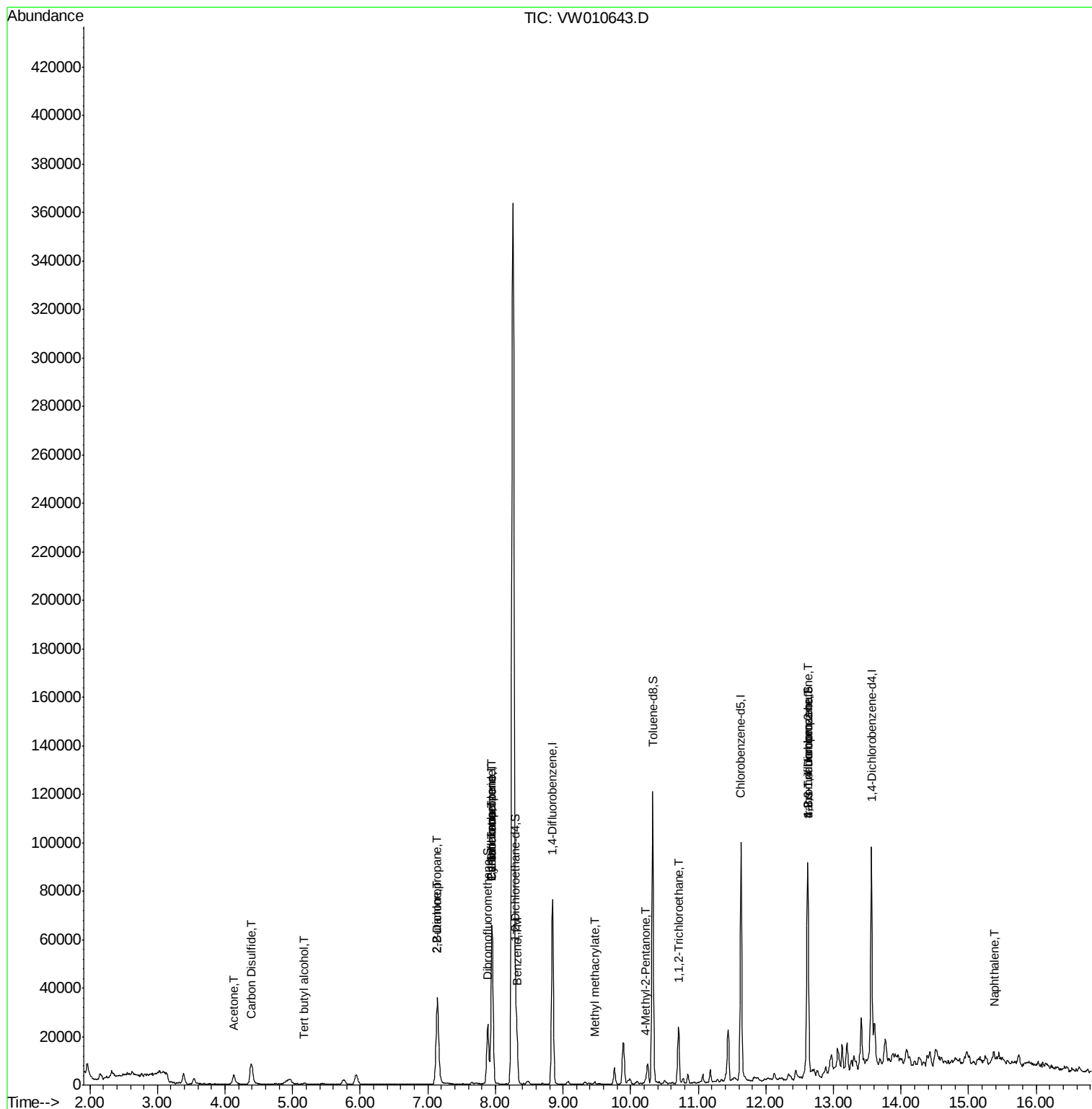
Target Compounds			Qvalue			
11) Tert butyl alcohol	5.18	59	461	9.727	ug/l #	71
16) Acetone	4.12	43	7009	65.171	ug/l	97
17) Carbon Disulfide	4.38	76	6941	4.316	ug/l	95
20) Methylene Chloride	4.93	84	736	Below Cal	#	70
25) 2-Butanone	7.14	43	2046	13.293	ug/l #	67
26) 2,2-Dichloropropane	7.15	77	2732	3.003	ug/l #	52
31) Cyclohexane	7.95	56	1179	1.179	ug/l #	26
36) 1,1-Dichloropropene	7.95	75	4049	6.107	ug/l #	47
38) Carbon Tetrachloride	7.95	117	5365	7.501	ug/l #	15
40) Benzene	8.32	78	3613	1.961	ug/l	94
48) Methyl methacrylate	9.47	41	298	1.156	ug/l #	16
51) 4-Methyl-2-Pentanone	10.21	43	976	3.419	ug/l	99
55) 1,1,2-Trichloroethane	10.71	97	783	2.127	ug/l #	16
76) 1,2,3-Trichloropropane	12.62	75	13402	54.023	ug/l #	1
81) trans-1,4-Dichloro-2-buten	12.62	75	13402	112.747	ug/l #	14
95) Naphthalene	15.37	128	4630	4.178	ug/l #	91

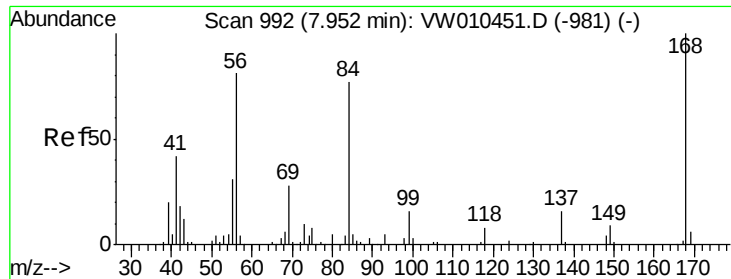
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 7.95 min Scan# 991

Delta R.T. -0.01 min

Lab File: VW010643.D

Acq: 31 May 2019 18:14

Instrument :

MSVOA_W

ClientSampleId :

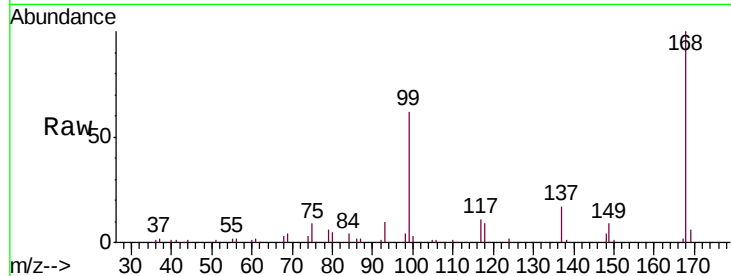
0440-PR-3(PASSAIC)

Tgt Ion:168 Resp: 51046

Ion Ratio Lower Upper

168 100

99 62.4 46.1 69.1



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VW

7.95

25000

20000

15000

10000

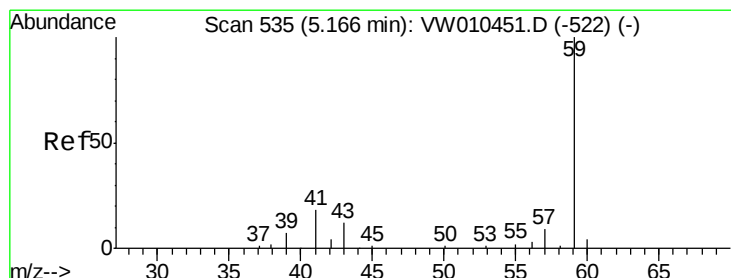
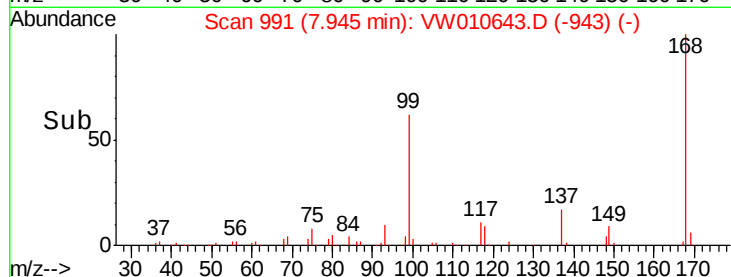
5000

0

Time-->

7.90

8.00



#11

Tert butyl alcohol

Concen: 9.727 ug/l

RT: 5.18 min Scan# 537

Delta R.T. 0.01 min

Lab File: VW010643.D

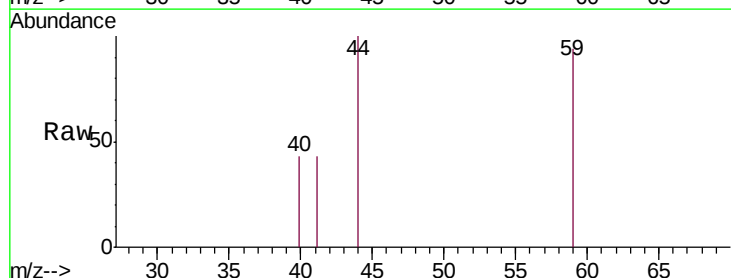
Acq: 31 May 2019 18:14

Tgt Ion: 59 Resp: 461

Ion Ratio Lower Upper

59 100

57 0.0 8.8 13.2#



Abundance Ion 59.00 (58.70 to 59.70): VW

Ion 57.00 (56.70 to 57.70): VW

5.18

250

200

150

100

50

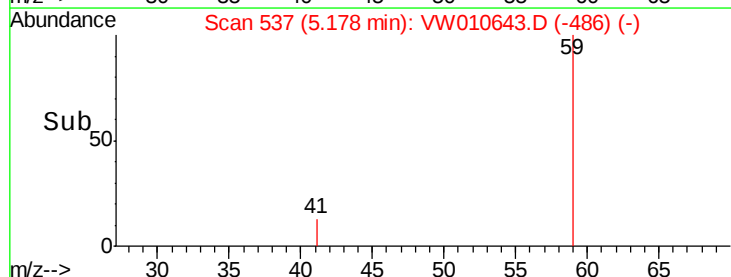
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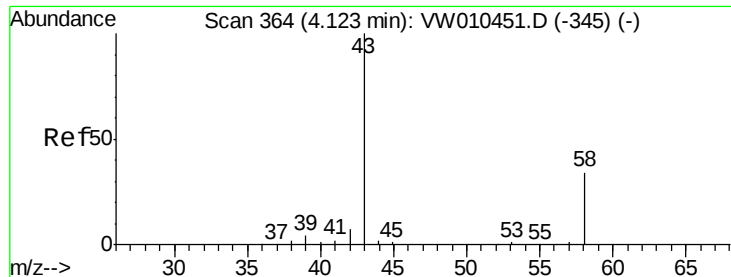
Time-->

5.10

5.15

5.20





#16

Acetone

Concen: 65.171 ug/l

RT: 4.12 min Scan# 364

Delta R.T. -0.00 min

Lab File: VW010643.D

Acq: 31 May 2019 18:14

Instrument :

MSVOA_W

ClientSampleId :

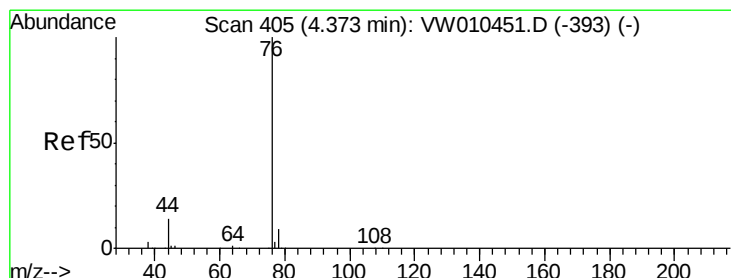
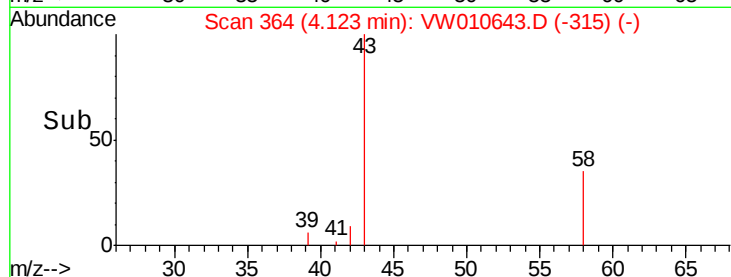
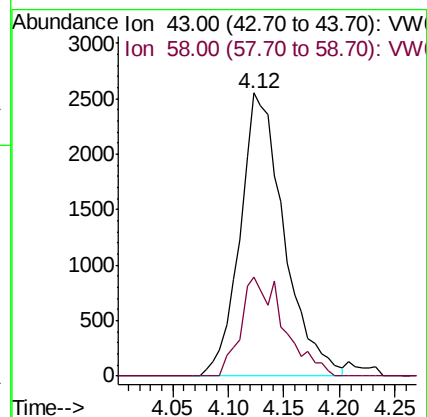
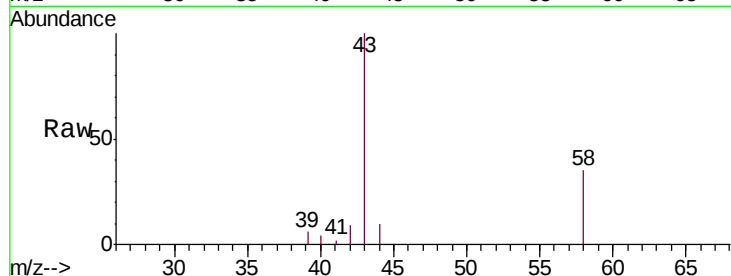
0440-PR-3(PASSAIC)

Tgt Ion: 43 Resp: 7009

Ion Ratio Lower Upper

43 100

58 35.1 27.0 40.4



#17

Carbon Disulfide

Concen: 4.316 ug/l

RT: 4.38 min Scan# 406

Delta R.T. 0.01 min

Lab File: VW010643.D

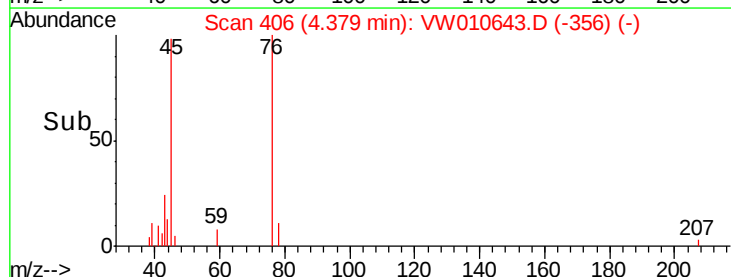
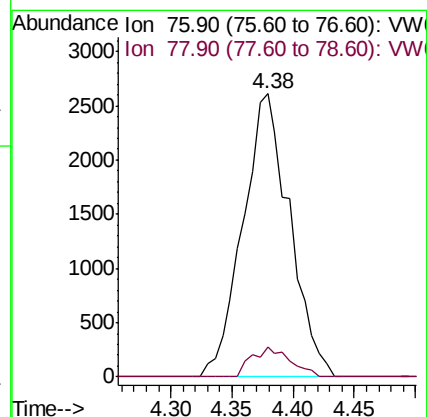
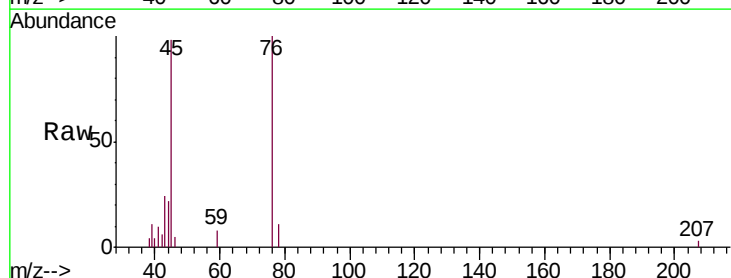
Acq: 31 May 2019 18:14

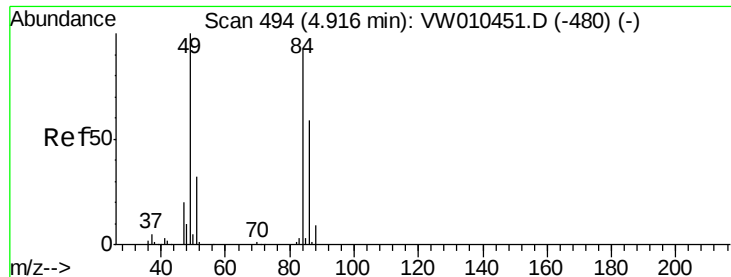
Tgt Ion: 76 Resp: 6941

Ion Ratio Lower Upper

76 100

78 10.7 7.1 10.7





#20

Methylene Chloride

Concen: Below Cal

RT: 4.93 min Scan# 496

Delta R.T. 0.01 min

Lab File: VW010643.D

Acq: 31 May 2019 18:14

Instrument :

MSVOA_W

ClientSampleId :

0440-PR-3(PASSAIC)

Tgt Ion: 84 Resp: 736

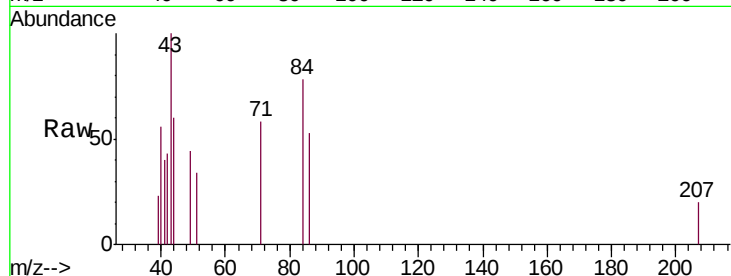
Ion Ratio Lower Upper

84 100

49 57.0 87.2 130.8#

51 43.7 27.7 41.5#

86 68.1 51.4 77.0

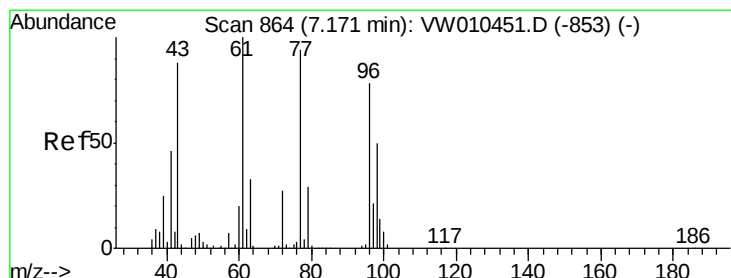
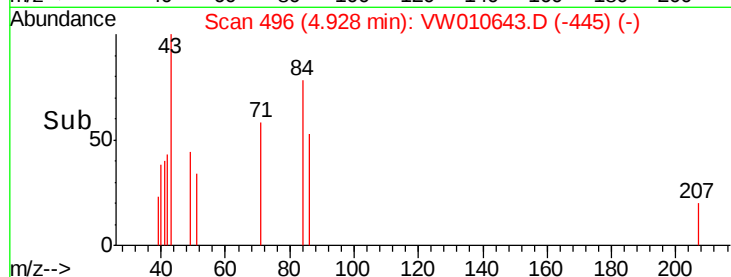
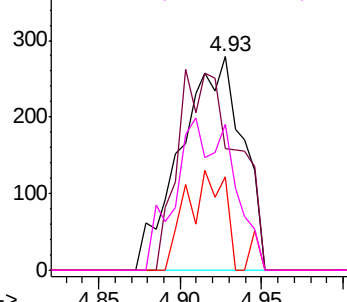


Abundance Ion 83.90 (83.60 to 84.60): VW

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



#25

2-Butanone

Concen: 13.293 ug/l

RT: 7.14 min Scan# 859

Delta R.T. -0.03 min

Lab File: VW010643.D

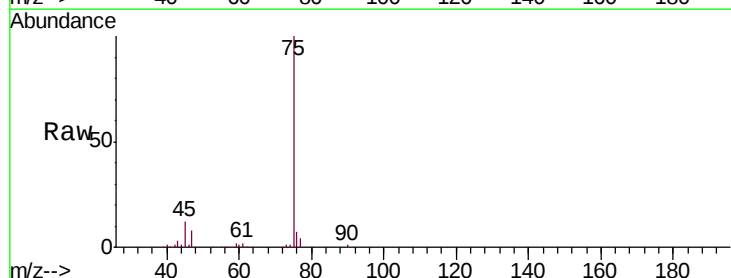
Acq: 31 May 2019 18:14

Tgt Ion: 43 Resp: 2046

Ion Ratio Lower Upper

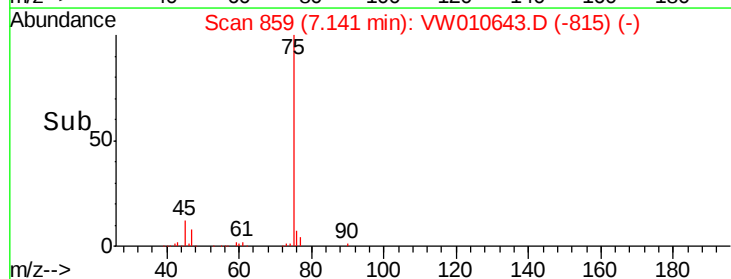
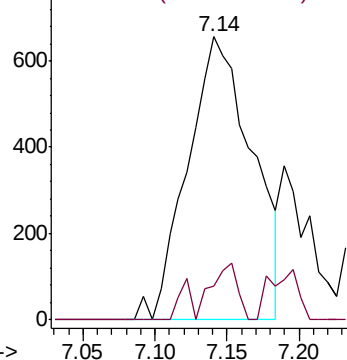
43 100

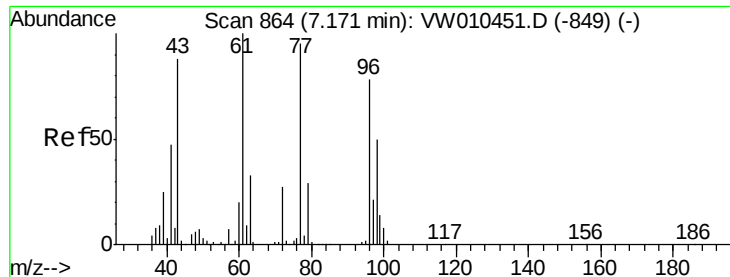
72 12.0 24.1 36.1#



Abundance Ion 43.00 (42.70 to 43.70): VW

Ion 72.00 (71.70 to 72.70): VW





#26

2,2-Dichloropropane

Concen: 3.003 ug/l

RT: 7.15 min Scan# 860

Delta R.T. -0.02 min

Lab File: VW010643.D

Acq: 31 May 2019 18:14

Instrument :

MSVOA_W

ClientSampleId :

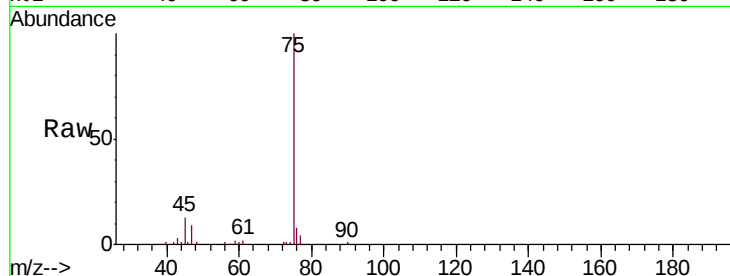
0440-PR-3(PASSAIC)

Tgt Ion: 77 Resp: 2732

Ion Ratio Lower Upper

77 100

97 0.0 11.7 35.0#



Abundance Ion 76.90 (76.60 to 77.60): VW

Ion 96.90 (96.60 to 97.60): VW

7.15

800

600

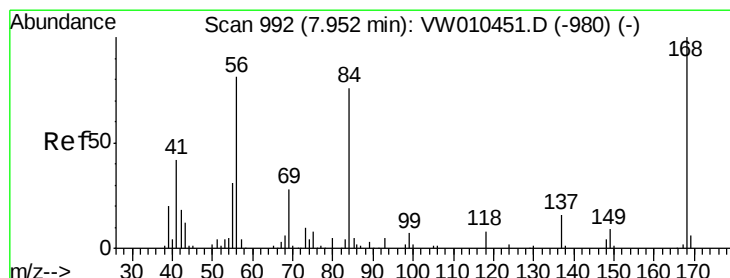
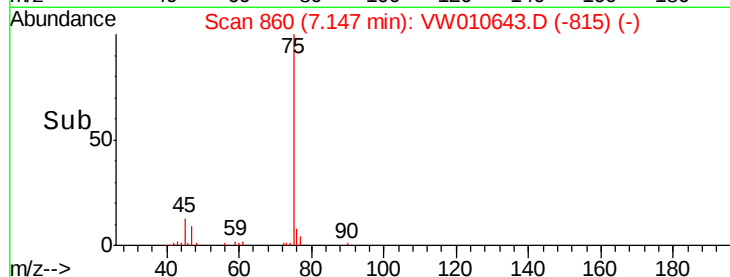
400

200

0

7.05 7.10 7.15 7.20

Time-->



#31

Cyclohexane

Concen: 1.179 ug/l

RT: 7.95 min Scan# 992

Delta R.T. -0.00 min

Lab File: VW010643.D

Acq: 31 May 2019 18:14

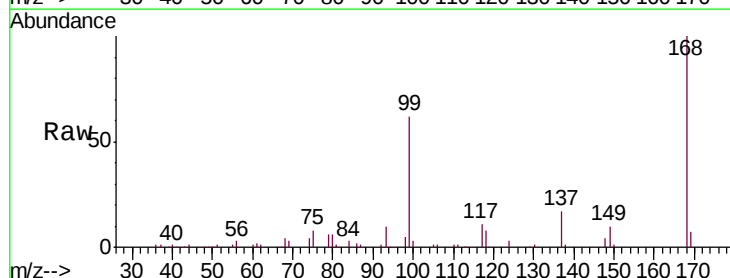
Tgt Ion: 56 Resp: 1179

Ion Ratio Lower Upper

56 100

69 137.9 28.2 42.2#

84 130.1 75.8 113.8#



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

800

600

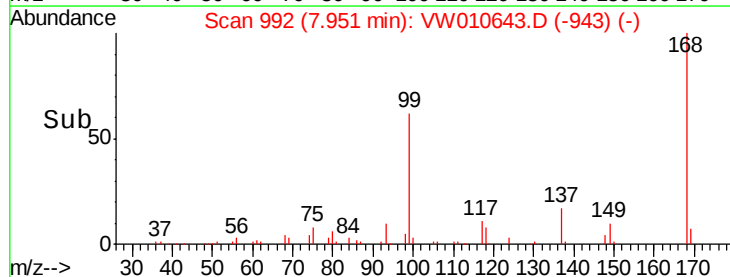
400

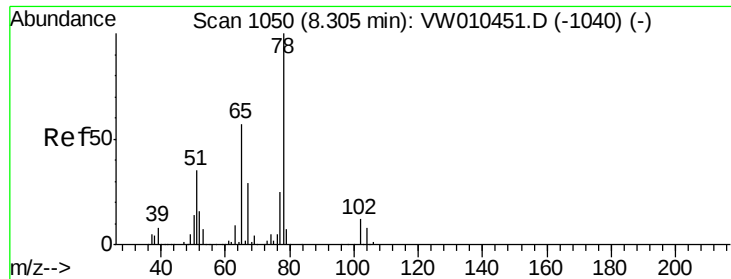
200

0

7.90 7.95 8.00

Time-->

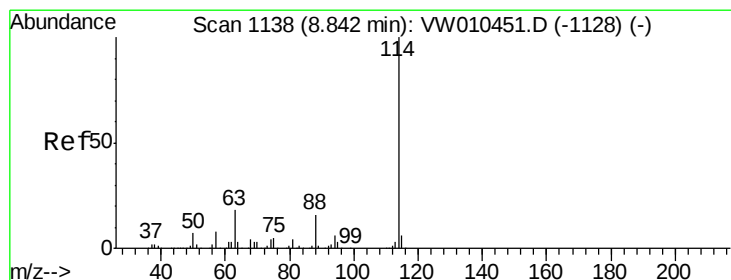
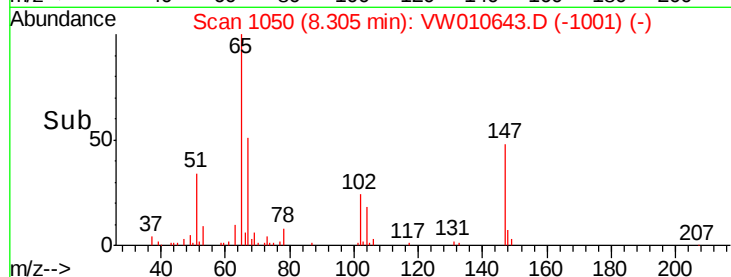
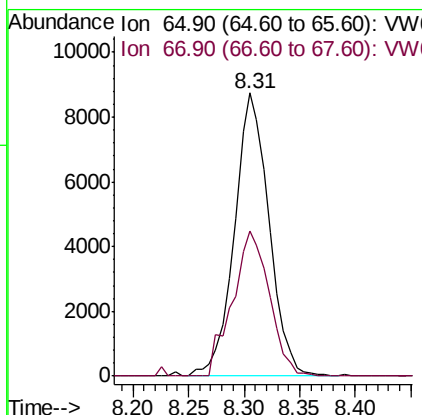
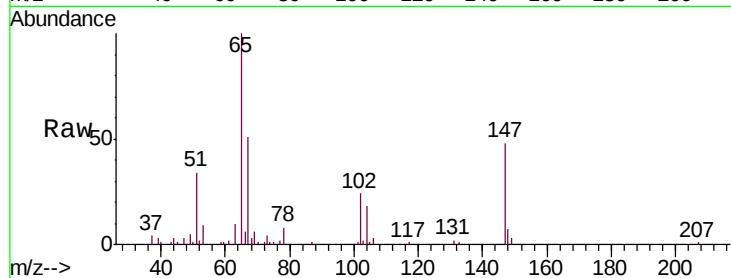




#33
 1,2-Dichloroethane-d4
 Concen: 35.759 ug/l
 RT: 8.31 min Scan# 1050
 Delta R.T. -0.00 min
 Lab File: VW010643.D
 Acq: 31 May 2019 18:14

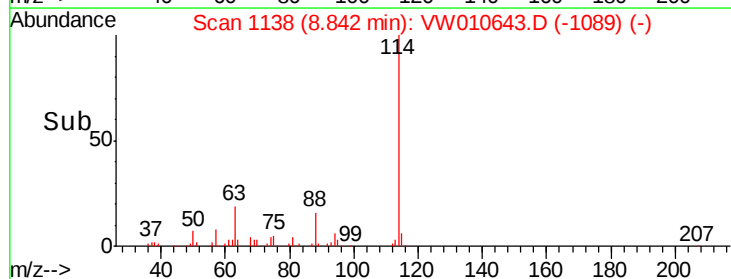
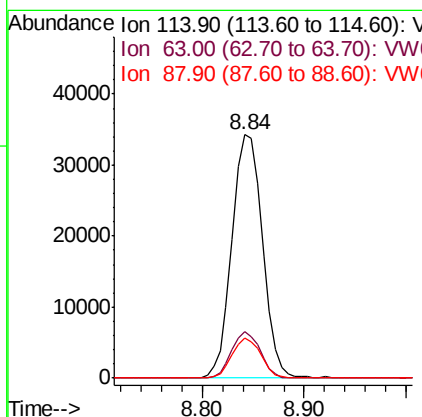
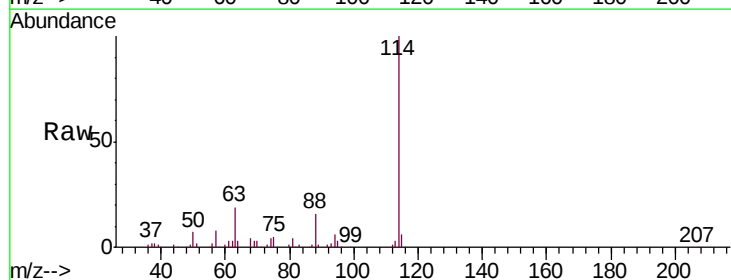
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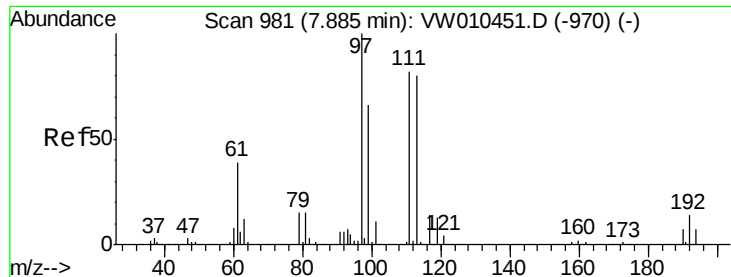
Tgt Ion: 65 Resp: 18841
 Ion Ratio Lower Upper
 65 100
 67 54.5 0.0 103.6



#34
 1,4-Difluorobenzene
 Concen: 50.000 ug/l
 RT: 8.84 min Scan# 1138
 Delta R.T. -0.00 min
 Lab File: VW010643.D
 Acq: 31 May 2019 18:14

Tgt Ion: 114 Resp: 71175
 Ion Ratio Lower Upper
 114 100
 63 18.9 0.0 36.0
 88 16.4 0.0 32.0

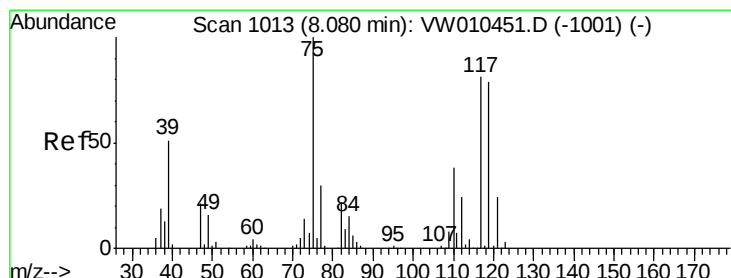
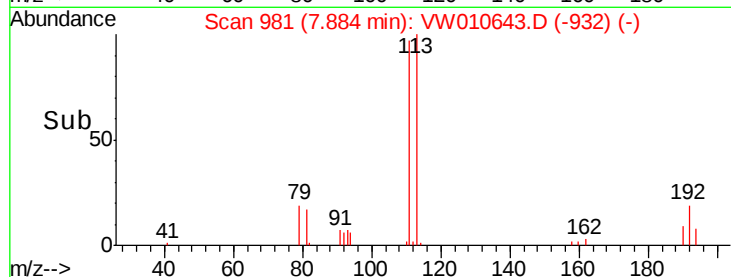
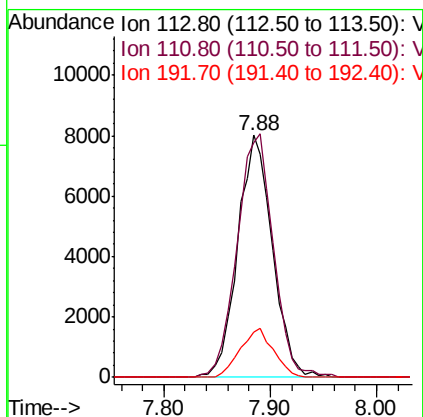
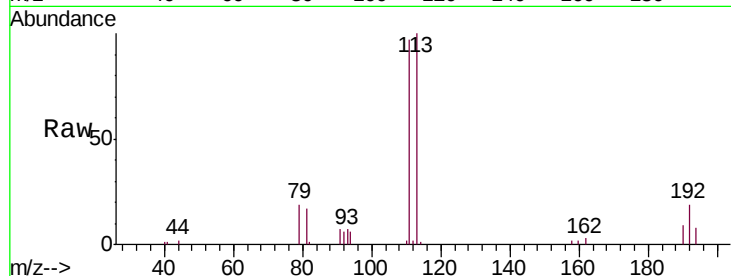




#35
 Dibromofluoromethane
 Concen: 42.413 ug/l
 RT: 7.88 min Scan# 981
 Delta R.T. -0.00 min
 Lab File: VW010643.D
 Acq: 31 May 2019 18:14

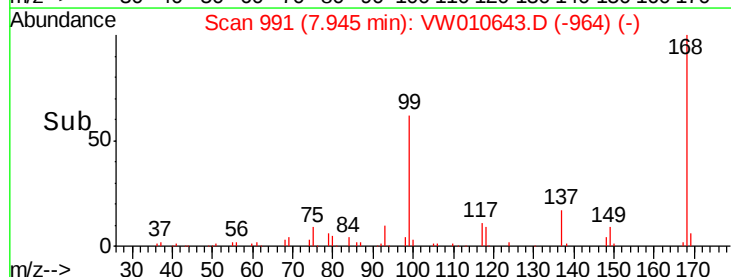
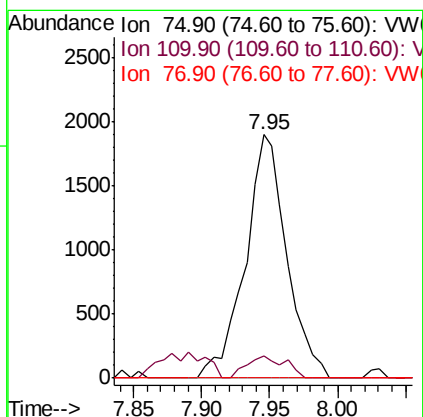
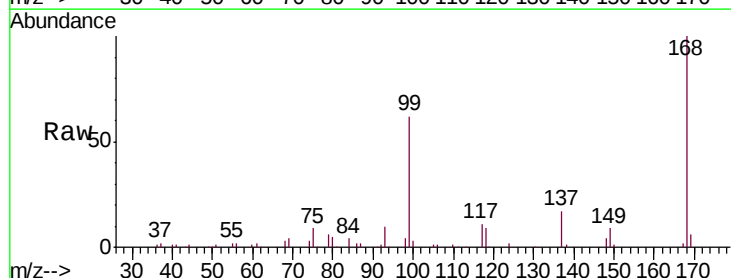
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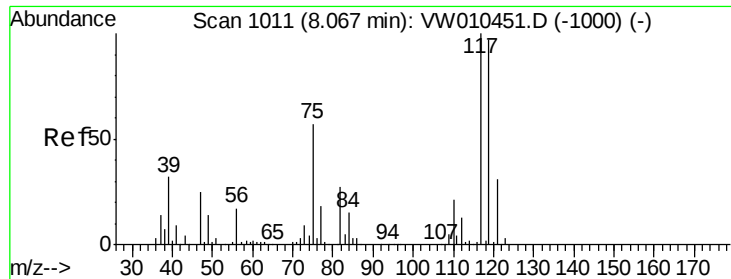
Tgt Ion:113 Resp: 18317
 Ion Ratio Lower Upper
 113 100
 111 105.0 82.2 123.4
 192 19.4 14.3 21.5



#36
 1,1-Dichloropropene
 Concen: 6.107 ug/l
 RT: 7.95 min Scan# 991
 Delta R.T. -0.13 min
 Lab File: VW010643.D
 Acq: 31 May 2019 18:14

Tgt Ion: 75 Resp: 4049
 Ion Ratio Lower Upper
 75 100
 110 8.5 19.2 57.6#
 77 0.0 25.2 37.8#





#38

Carbon Tetrachloride

Concen: 7.501 ug/l

RT: 7.95 min Scan# 991

Delta R.T. -0.12 min

Lab File: VW010643.D

Acq: 31 May 2019 18:14

Instrument :

MSVOA_W

ClientSampleId :

0440-PR-3(PASSAIC)

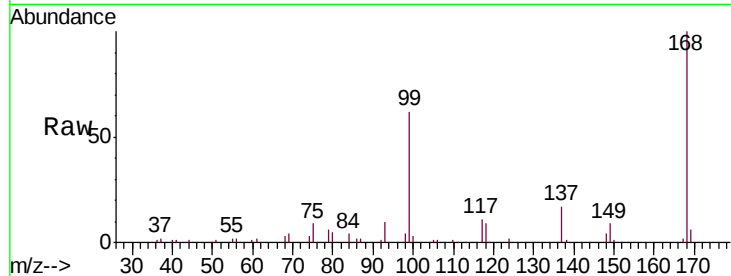
Tgt Ion:117 Resp: 5365

Ion Ratio Lower Upper

117 100

119 4.2 77.4 116.0#

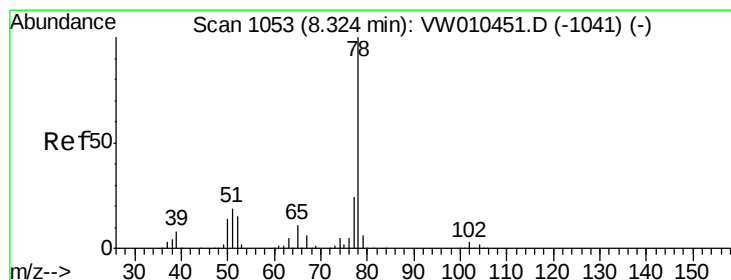
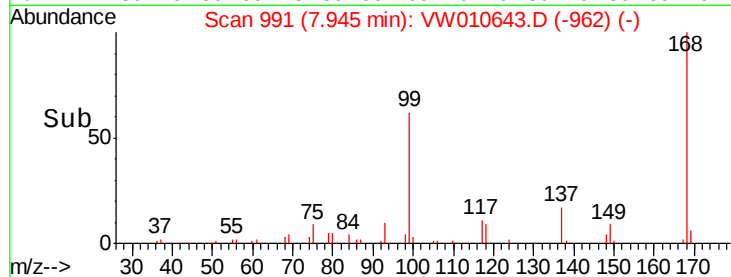
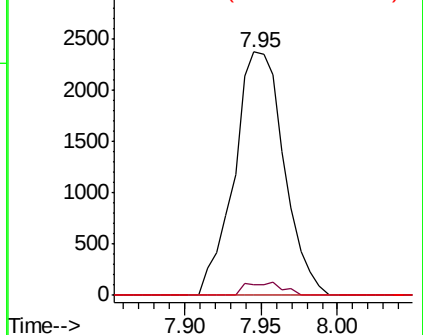
121 0.0 25.0 37.6#



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



#40

Benzene

Concen: 1.961 ug/l

RT: 8.32 min Scan# 1053

Delta R.T. -0.00 min

Lab File: VW010643.D

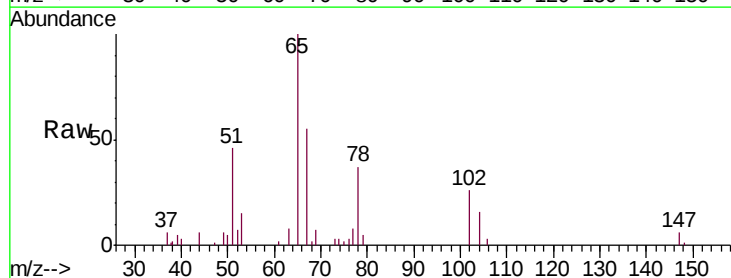
Acq: 31 May 2019 18:14

Tgt Ion: 78 Resp: 3613

Ion Ratio Lower Upper

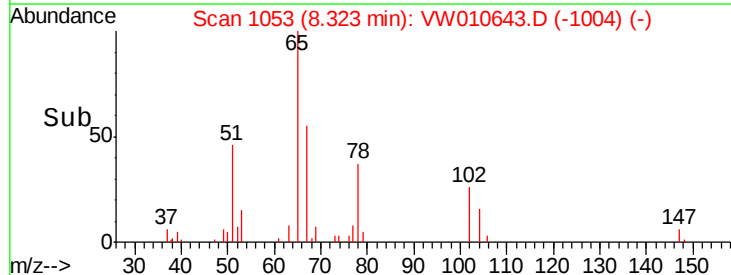
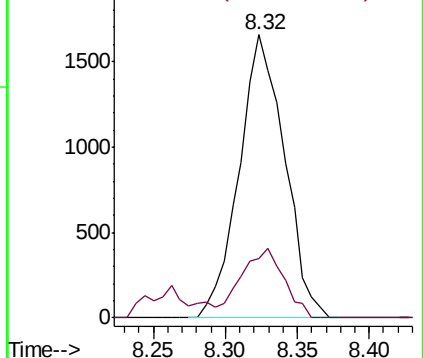
78 100

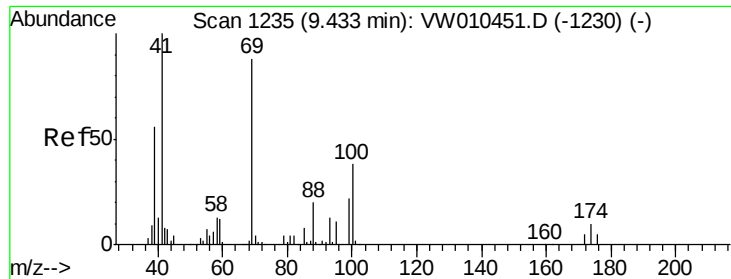
77 20.8 18.9 28.3



Abundance Ion 78.00 (77.70 to 78.70): VW

Ion 77.00 (76.70 to 77.70): VW

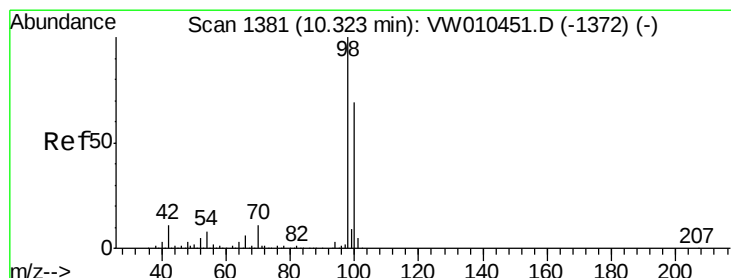
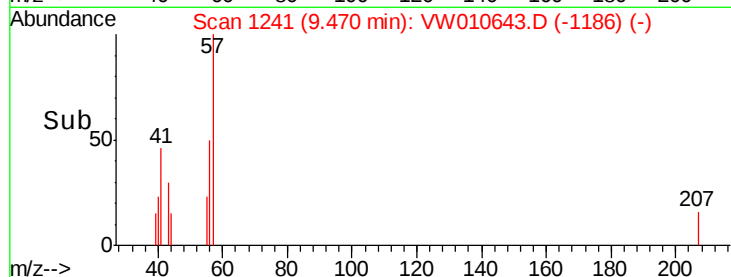
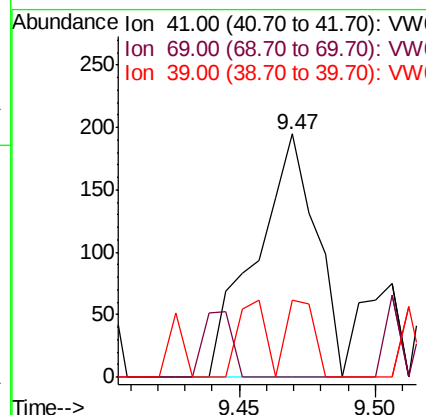
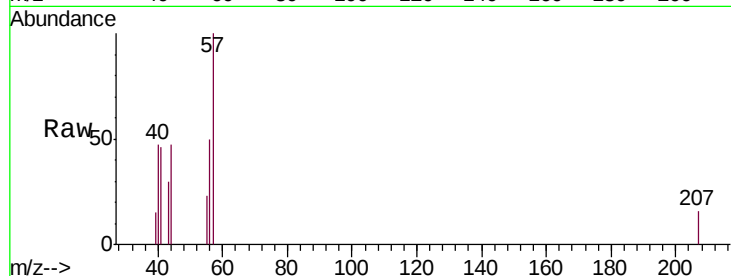




#48
Methyl methacrylate
Concen: 1.156 ug/l
RT: 9.47 min Scan# 1241
Delta R.T. 0.04 min
Lab File: VW010643.D
Acq: 31 May 2019 18:14

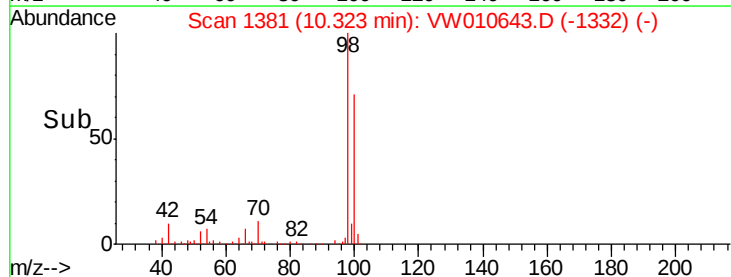
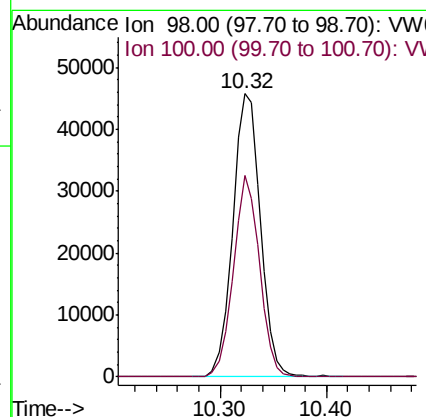
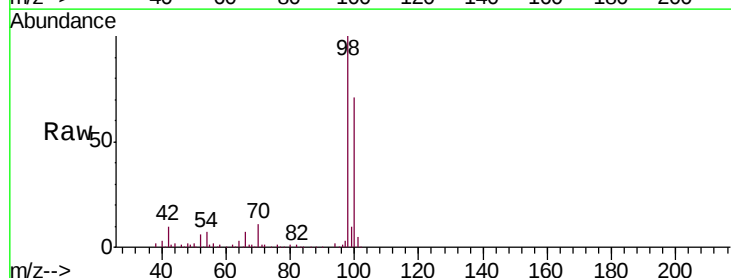
Instrument :
MSVOA_W
ClientSampleId :
0440-PR-3(PASSAIC)

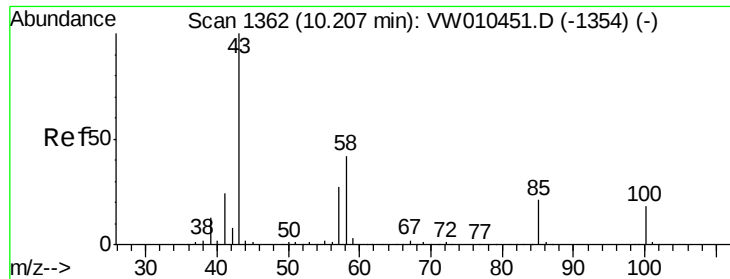
Tgt Ion: 41 Resp: 298
Ion Ratio Lower Upper
41 100
69 0.0 77.6 116.4#
39 14.8 49.8 74.8#



#50
Toluene-d8
Concen: 50.595 ug/l
RT: 10.32 min Scan# 1381
Delta R.T. -0.00 min
Lab File: VW010643.D
Acq: 31 May 2019 18:14

Tgt Ion: 98 Resp: 83475
Ion Ratio Lower Upper
98 100
100 67.0 53.7 80.5





#51

4-Methyl-2-Pentanone

Concen: 3.419 ug/l

RT: 10.21 min Scan# 1363

Delta R.T. 0.01 min

Lab File: VW010643.D

Acq: 31 May 2019 18:14

Instrument :

MSVOA_W

ClientSampleId :

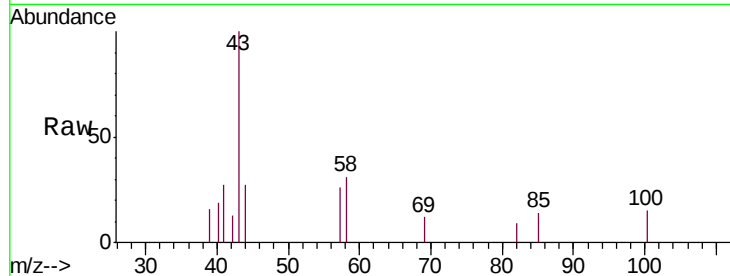
0440-PR-3(PASSAIC)

Tgt Ion: 43 Resp: 976

Ion Ratio Lower Upper

43 100

58 40.7 33.2 49.8



Abundance Ion 43.00 (42.70 to 43.70): VW

Ion 58.00 (57.70 to 58.70): VW

10.21

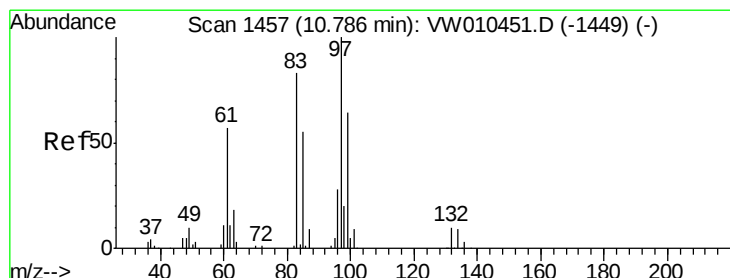
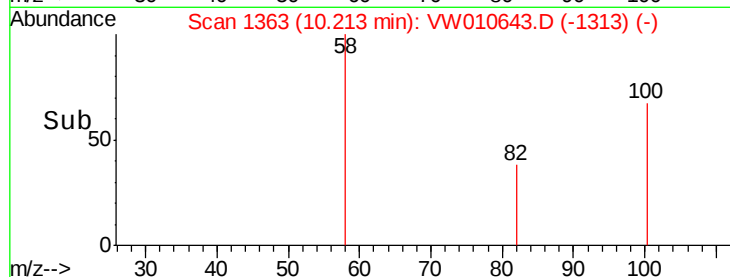
600

400

200

0

Time-->



#55

1,1,2-Trichloroethane

Concen: 2.127 ug/l

RT: 10.71 min Scan# 1444

Delta R.T. -0.08 min

Lab File: VW010643.D

Acq: 31 May 2019 18:14

Tgt Ion: 97 Resp: 783

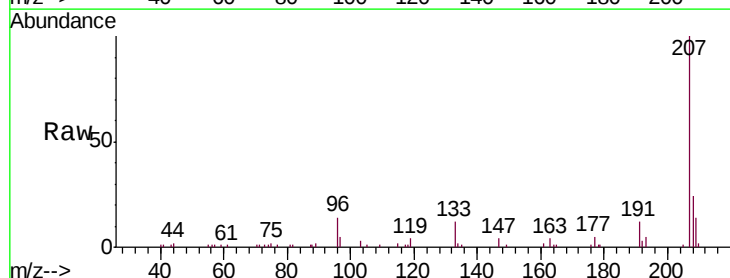
Ion Ratio Lower Upper

97 100

83 0.0 66.1 99.1#

85 0.0 44.2 66.4#

99 0.0 51.1 76.7#



Abundance Ion 96.90 (96.60 to 97.60): VW

Ion 82.90 (82.60 to 83.60): VW

Ion 84.90 (84.60 to 85.60): VW

Ion 98.90 (98.60 to 99.60): VW

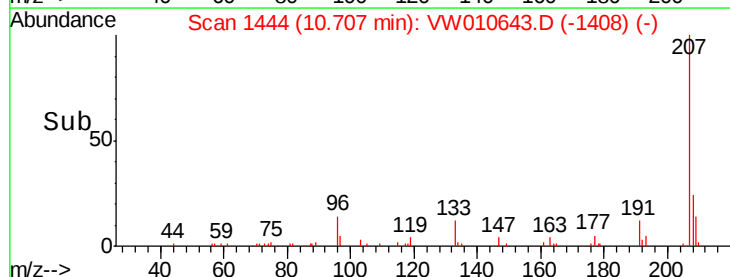
600

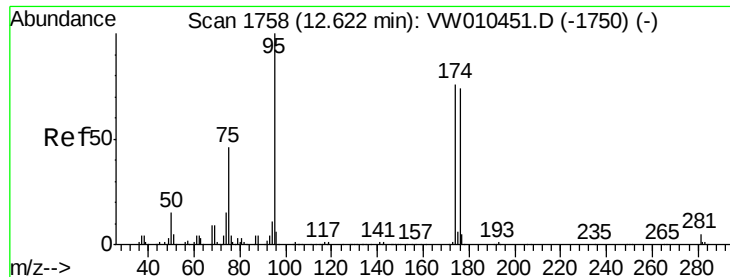
400

200

0

Time-->





#62

4-Bromofluorobenzene

Concen: 42.400 ug/l

RT: 12.62 min Scan# 1758

Delta R.T. -0.00 min

Lab File: VW010643.D

Acq: 31 May 2019 18:14

Instrument :

MSVOA_W

ClientSampleId :

0440-PR-3(PASSAIC)

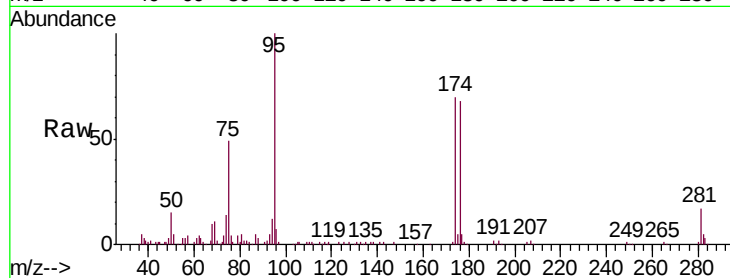
Tgt Ion: 95 Resp: 27864

Ion Ratio Lower Upper

95 100

174 73.6 0.0 148.6

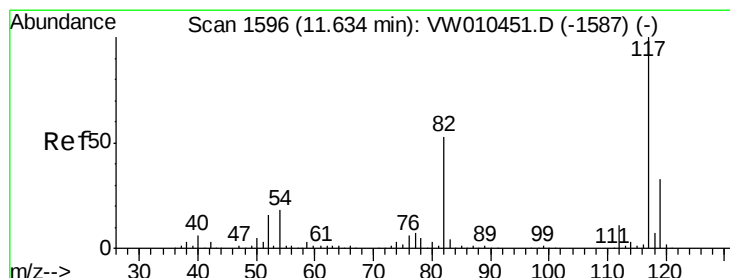
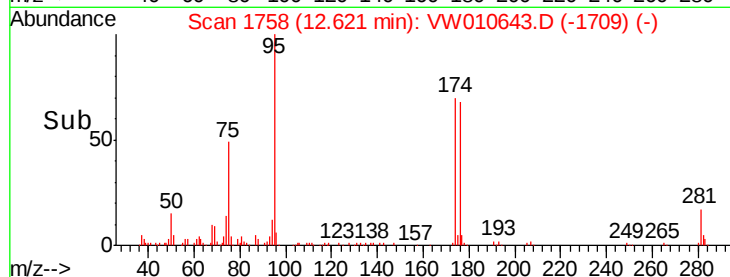
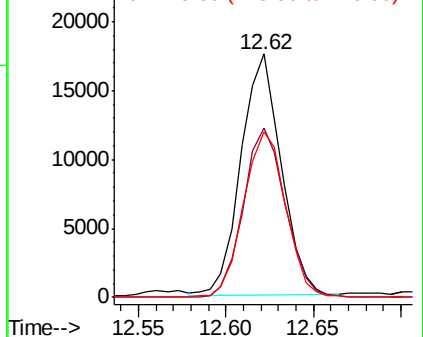
176 72.2 0.0 144.2



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: VW010643.D

Acq: 31 May 2019 18:14

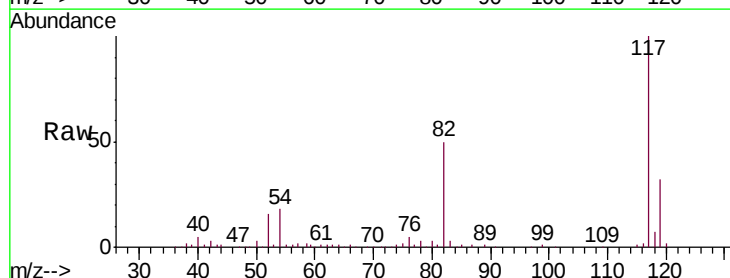
Tgt Ion: 117 Resp: 57768

Ion Ratio Lower Upper

117 100

82 50.3 42.8 64.2

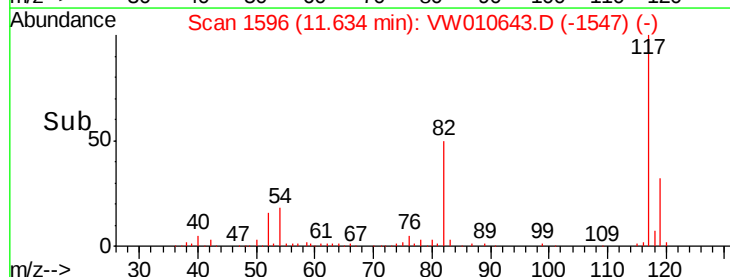
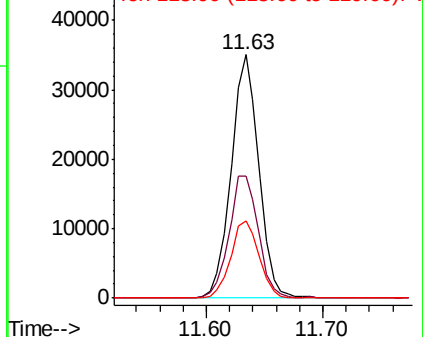
119 31.5 26.3 39.5

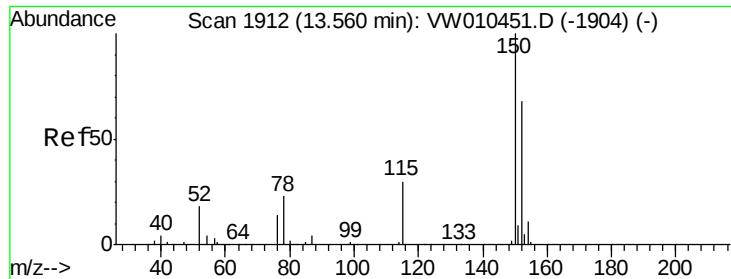


Abundance Ion 116.90 (116.60 to 117.60): VW

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: VW010643.D

Acq: 31 May 2019 18:14

Instrument :

MSVOA_W

ClientSampleId :

0440-PR-3(PASSAIC)

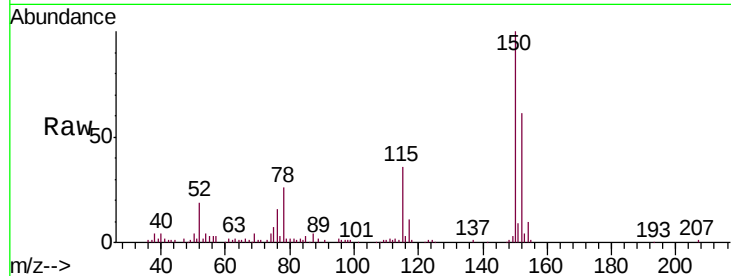
Tgt Ion:152 Resp: 24440

Ion Ratio Lower Upper

152 100

115 60.8 30.3 91.0

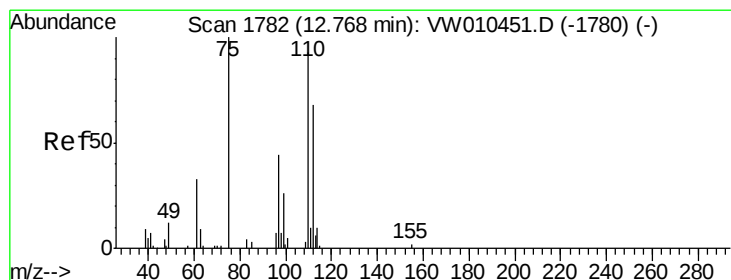
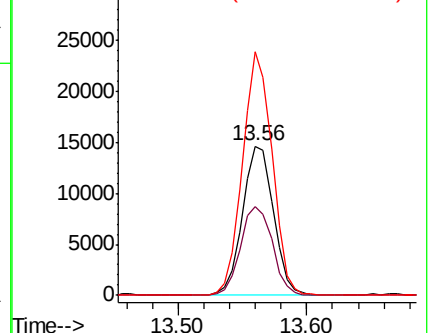
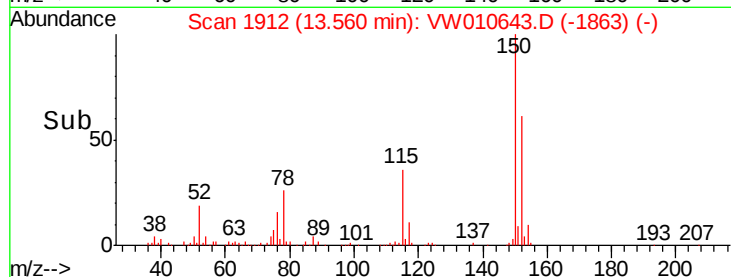
150 154.8 0.0 349.8



Abundance Ion 151.90 (151.60 to 152.60): V

Ion 114.90 (114.60 to 115.60): V

Ion 149.90 (149.60 to 150.60): V



#76

1,2,3-Trichloropropane

Concen: 54.023 ug/l

RT: 12.62 min Scan# 1758

Delta R.T. -0.15 min

Lab File: VW010643.D

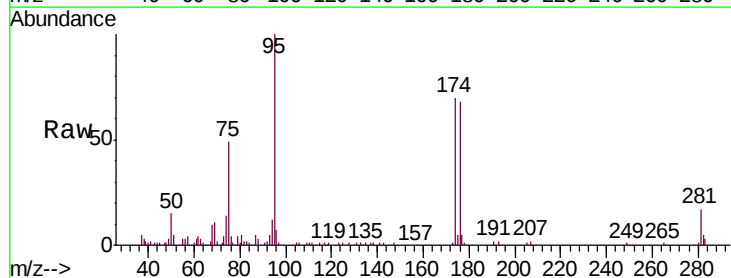
Acq: 31 May 2019 18:14

Tgt Ion: 75 Resp: 13402

Ion Ratio Lower Upper

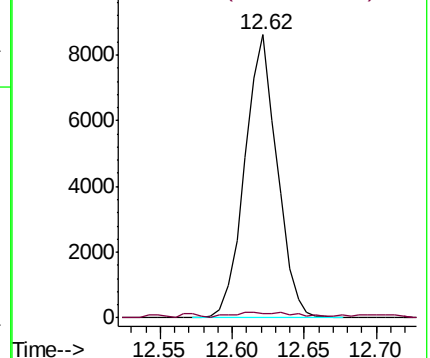
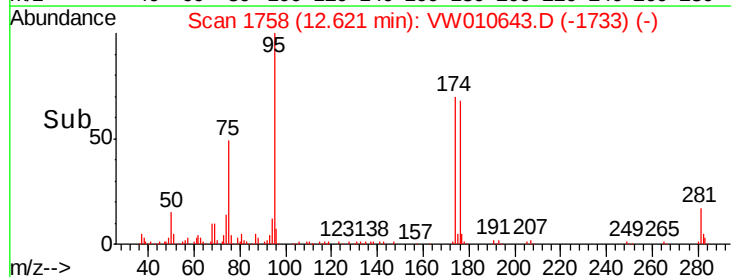
75 100

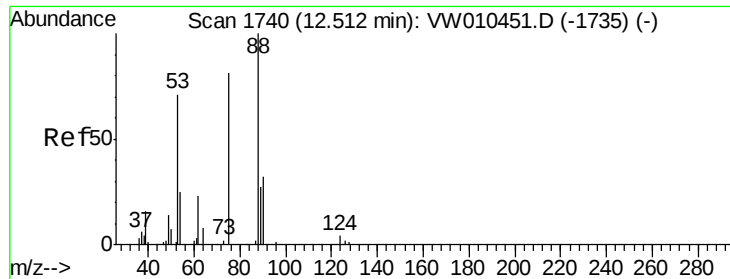
77 4.0 170.0 510.1#



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: 112.747 ug/l

RT: 12.62 min Scan# 1758

Delta R.T. 0.11 min

Lab File: VW010643.D

Acq: 31 May 2019 18:14

Instrument :

MSVOA_W

ClientSampleId :

0440-PR-3(PASSAIC)

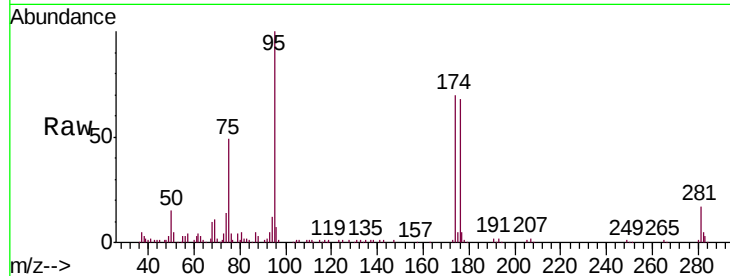
Tgt Ion: 75 Resp: 13402

Ion Ratio Lower Upper

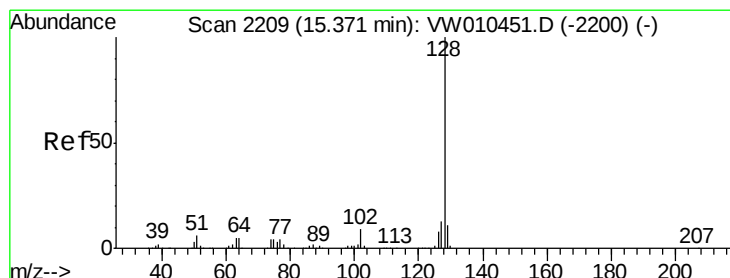
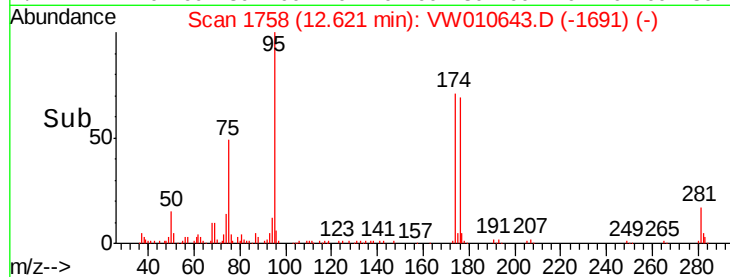
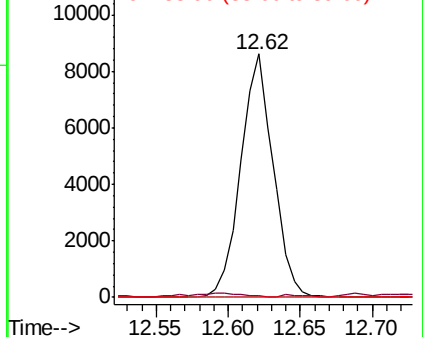
75 100

53 0.7 69.8 104.8#

89 0.0 39.5 59.3#



Abundance Ion 74.90 (74.60 to 75.60): VW
Ion 53.00 (52.70 to 53.70): VW
Ion 88.90 (88.60 to 89.60): VW



#95

Naphthalene

Concen: 4.178 ug/l

RT: 15.37 min Scan# 2209

Delta R.T. -0.00 min

Lab File: VW010643.D

Acq: 31 May 2019 18:14

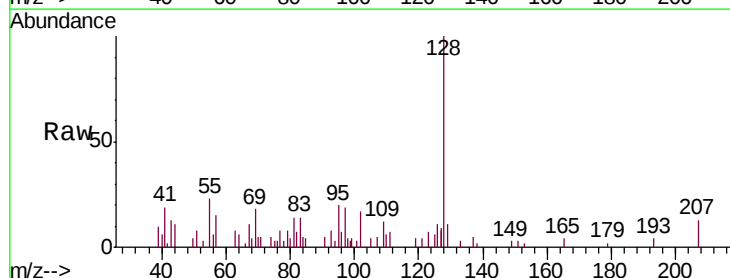
Tgt Ion: 128 Resp: 4630

Ion Ratio Lower Upper

128 100

127 16.9 10.6 15.8#

129 14.1 8.9 13.3#



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

