

Data Path : Z:\VOASRV\HPCHEM1\MSVOA U\DATA\U121718\
 Data File : VU028758.D
 Acq On : 18 Dec 2018 07:12
 Operator : MD/SY
 Sample : J6438-12 10X
 Misc : 5.0mL/MSVOA U/WATER
 ALS Vial : 53 Sample Multiplier: 1

Instrument :
 MSVOA_U
 ClientSampleId :

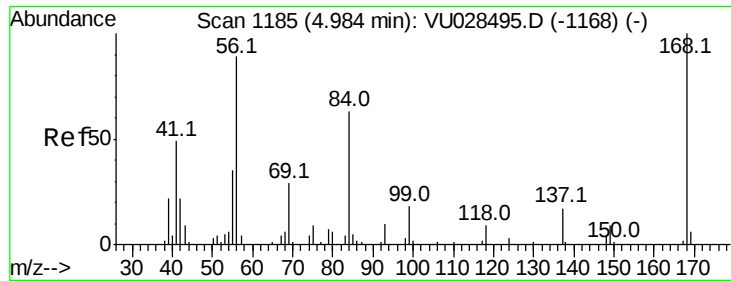
Quant Time: Dec 18 07:40:57 2018
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_U\METHOD\82U120618W.M
 Quant Title : SW846 8260
 QLast Update : Fri Dec 07 00:39:42 2018
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	4.98	168	81016	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	5.89	114	142023	50.00	ug/l	0.00
63) Chlorobenzene-d5	9.09	117	131481	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	11.48	152	52107	50.00	ug/l	0.00

System Monitoring Compounds	R.T.	QIon	Response	Conc	Units	Dev(Min)
33) 1,2-Dichloroethane-d4	5.31	65	66930	54.13	ug/l	0.00
Spiked Amount			Recovery	=	108.26%	
35) Dibromofluoromethane	4.88	113	49934	55.87	ug/l	0.00
Spiked Amount			Recovery	=	111.74%	
50) Toluene-d8	7.56	98	187496	53.03	ug/l	0.00
Spiked Amount			Recovery	=	106.06%	
62) 4-Bromofluorobenzene	10.30	95	61654	46.66	ug/l	0.00
Spiked Amount			Recovery	=	93.32%	

Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
3) Chloromethane	1.33	50	1621	0.812	ug/l	99
4) Vinyl Chloride	1.28	62	1894	1.315	ug/l #	43
11) Tert butyl alcohol	2.83	59	620	2.251	ug/l #	73
16) Acetone	2.32	43	1826	2.263	ug/l	100
18) Methyl Acetate	2.62	43	2009	0.961	ug/l #	77
25) 2-Butanone	4.27	43	5771	5.234	ug/l	91
31) Cyclohexane	4.98	56	1782	Below Cal	#	1
36) 1,1-Dichloropropene	4.98	75	7593	4.886	ug/l #	48
37) Ethyl Acetate	4.27	43	5771	2.873	ug/l #	70
38) Carbon Tetrachloride	4.98	117	7990	6.379	ug/l #	15
40) Benzene	5.39	78	2927	0.639	ug/l #	87
51) 4-Methyl-2-Pentanone	7.56	43	1024	0.511	ug/l #	1
52) Toluene	7.64	92	1537	0.571	ug/l	95
68) m/p-Xylenes	9.37	106	637	0.340	ug/l	93
70) Styrene	9.79	104	1792	0.595	ug/l #	85
76) 1,2,3-Trichloropropane	10.30	75	32468	24.402	ug/l #	35
81) trans-1,4-Dichloro-2-buten	10.30	75	32468	59.891	ug/l #	100
84) 1,2,4-Trimethylbenzene	11.15	105	856	0.251	ug/l	69
85) sec-Butylbenzene	11.15	105	856	0.209	ug/l #	59
95) Naphthalene	13.75	128	4844	1.143	ug/l #	88

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



#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 4.98 min Scan# 1185

Delta R.T. -0.00 min

Lab File: VU028758.D

Acq: 18 Dec 2018 07:12

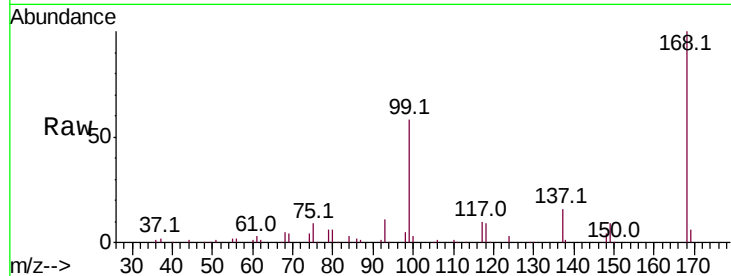
Instrument :
MSVOA_U
ClientSampled :

Tot Ion:168 Resp: 81016

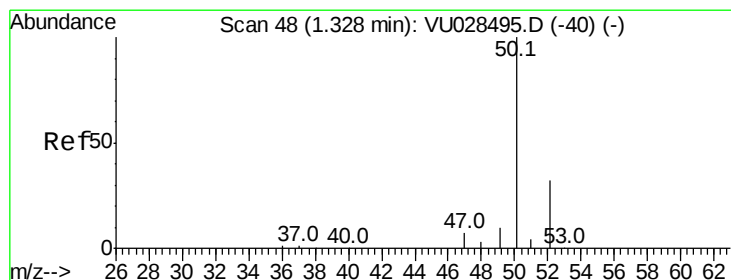
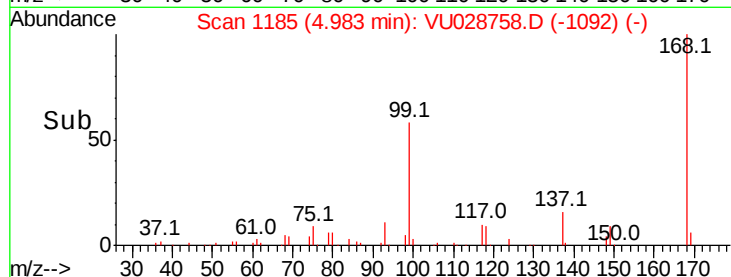
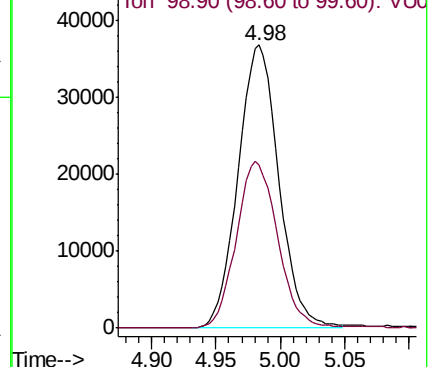
Ion Ratio Lower Upper

168 100

99 57.6 46.6 69.8



Abundance Ion 167.90 (167.60 to 168.60): VU028495.D (-1168) (-)



#3

Chloromethane

Concen: 0.812 ug/l

RT: 1.33 min Scan# 48

Delta R.T. -0.00 min

Lab File: VU028758.D

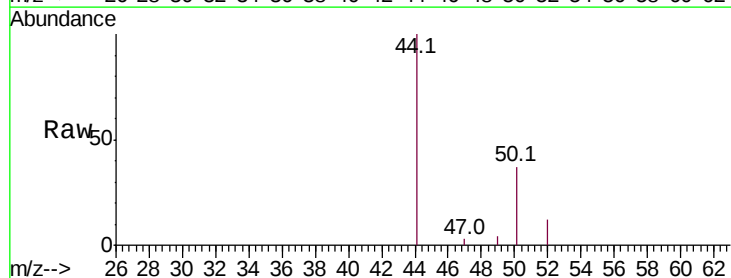
Acq: 18 Dec 2018 07:12

Tgt Ion: 50 Resp: 1621

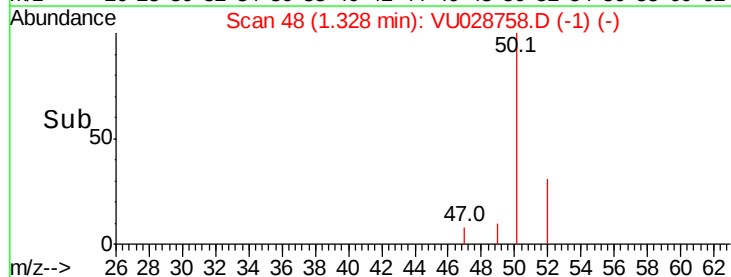
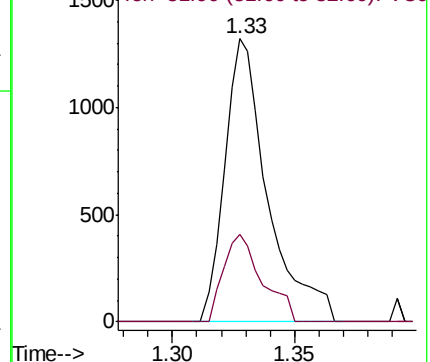
Ion Ratio Lower Upper

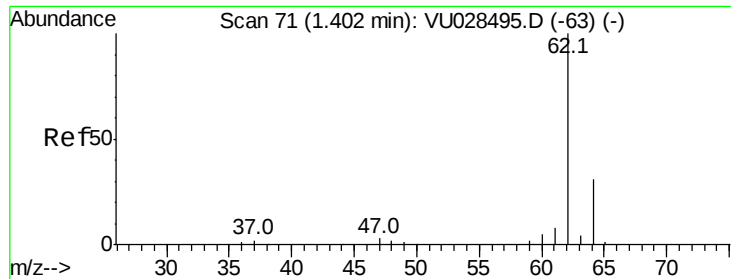
50 100

52 31.1 25.5 38.3



Abundance Ion 49.90 (49.60 to 50.60): VU028495.D (-40) (-)





#4

Vinyl Chloride

Concen: 1.315 ug/l

RT: 1.28 min Scan# 34

Delta R.T. -0.12 min

Lab File: VU028758.D

Acq: 18 Dec 2018 07:12

Instrument :

MSVOA_U

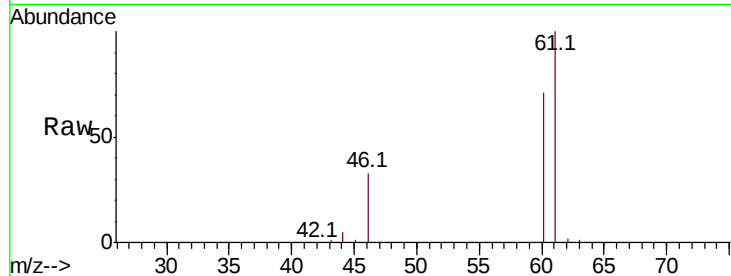
ClientSampled :

Tot Ion: 62 Resp: 1894

Ion Ratio Lower Upper

62 100

64 0.0 25.1 37.7#



Abundance Ion 61.90 (61.60 to 62.60): VU0

Ion 63.90 (63.60 to 64.60): VU0

1.28

2000

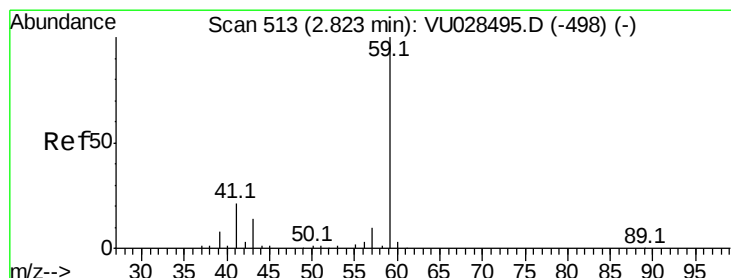
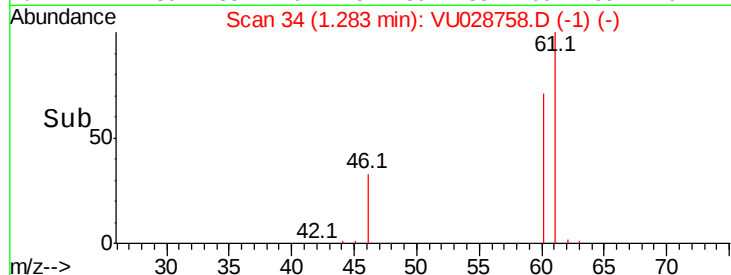
1500

1000

500

0

Time-->



#11

Tert butyl alcohol

Concen: 2.251 ug/l

RT: 2.83 min Scan# 514

Delta R.T. 0.00 min

Lab File: VU028758.D

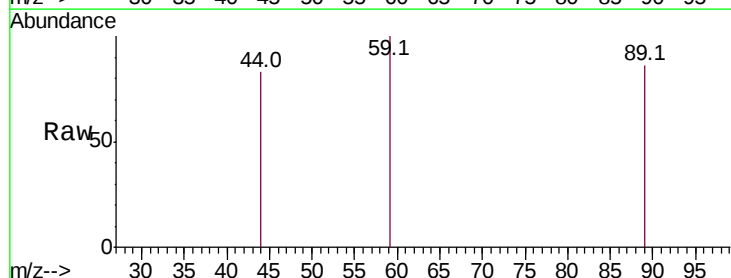
Acq: 18 Dec 2018 07:12

Tgt Ion: 59 Resp: 620

Ion Ratio Lower Upper

59 100

57 0.0 8.0 12.0#



Abundance Ion 59.00 (58.70 to 59.70): VU0

Ion 57.00 (56.70 to 57.70): VU0

2.83

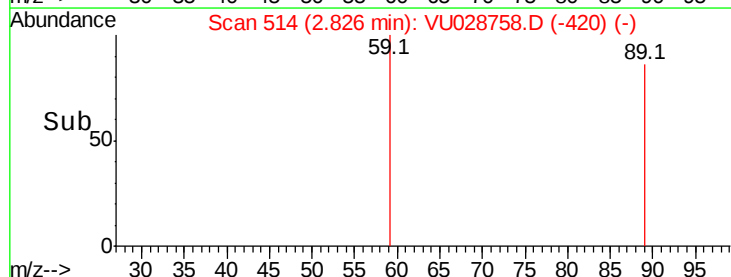
300

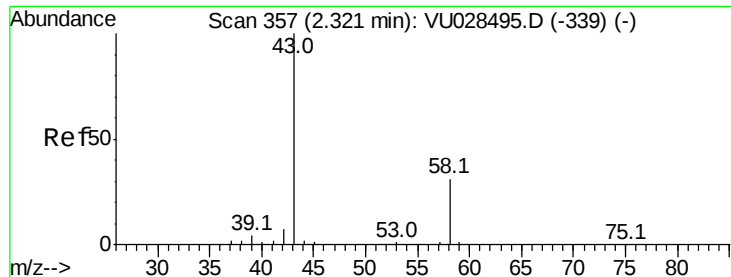
200

100

0

Time-->





#16

Acetone

Concen: 2.263 ug/l

RT: 2.32 min Scan# 357

Delta R.T. -0.00 min

Lab File: VU028758.D

Acq: 18 Dec 2018 07:12

Instrument :

MSVOA_U

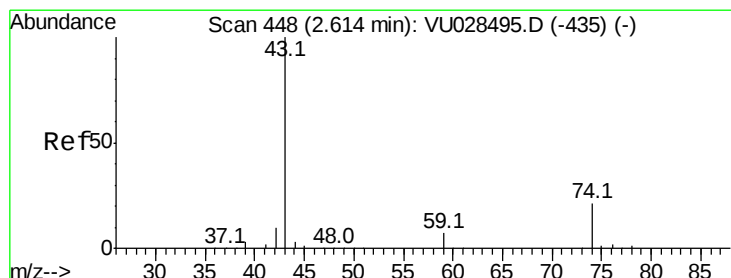
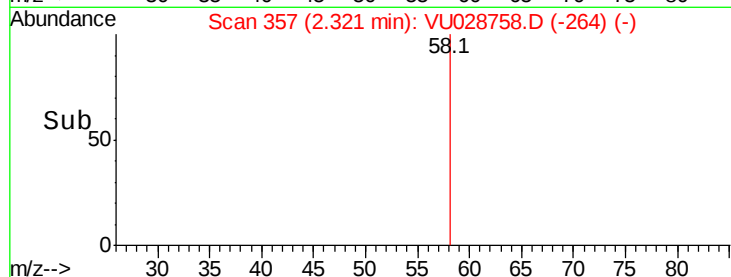
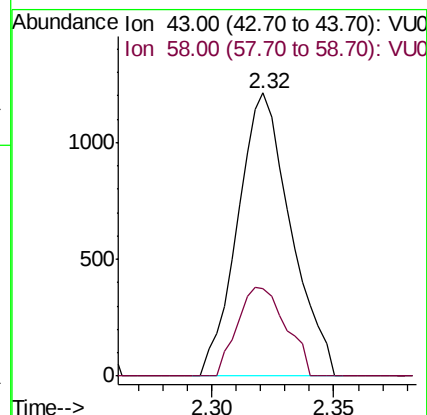
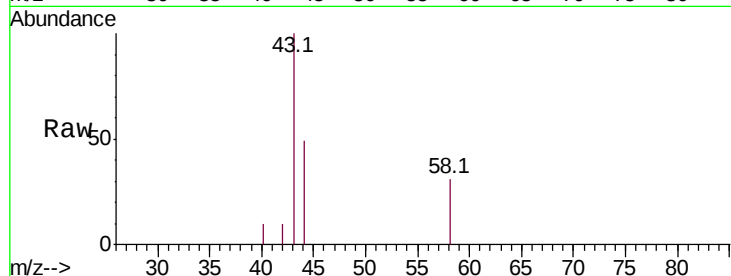
ClientSampleId :

Tot Ion: 43 Resp: 1826

Ion Ratio Lower Upper

43 100

58 31.0 24.6 37.0



#18

Methyl Acetate

Concen: 0.961 ug/l

RT: 2.62 min Scan# 451

Delta R.T. 0.01 min

Lab File: VU028758.D

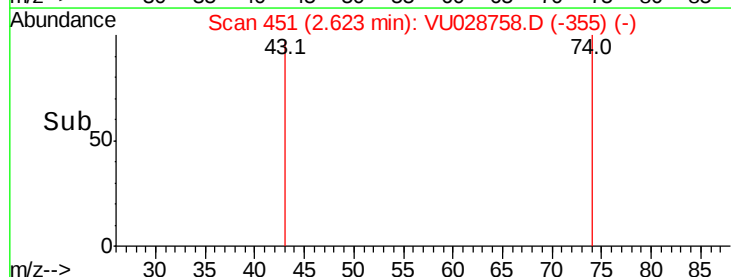
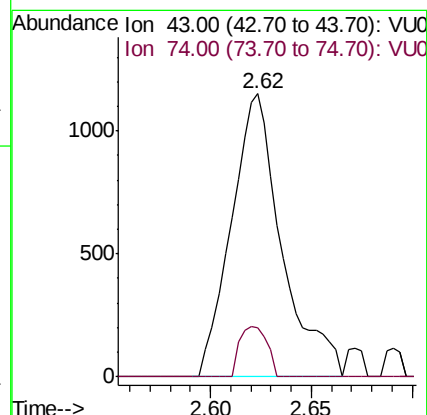
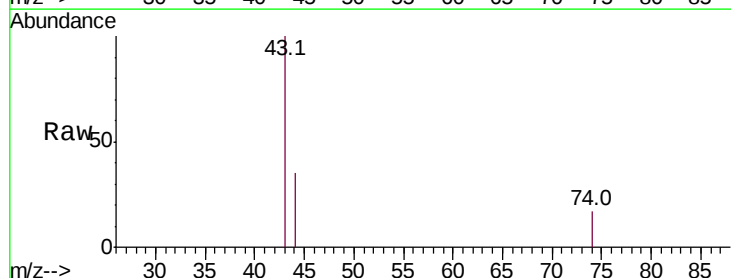
Acq: 18 Dec 2018 07:12

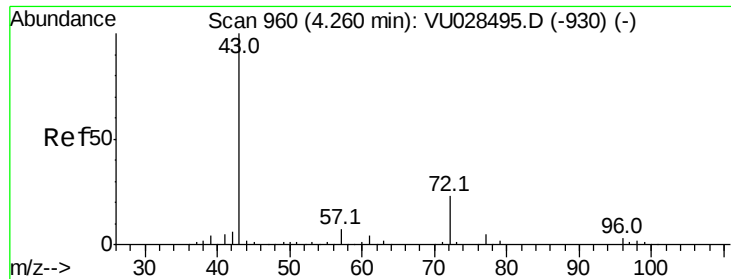
Tgt Ion: 43 Resp: 2009

Ion Ratio Lower Upper

43 100

74 9.7 16.4 24.6#





#25

2-Butanone

Concen: 5.234 ug/l

RT: 4.27 min Scan# 964

Delta R.T. 0.01 min

Lab File: VU028758.D

Acq: 18 Dec 2018 07:12

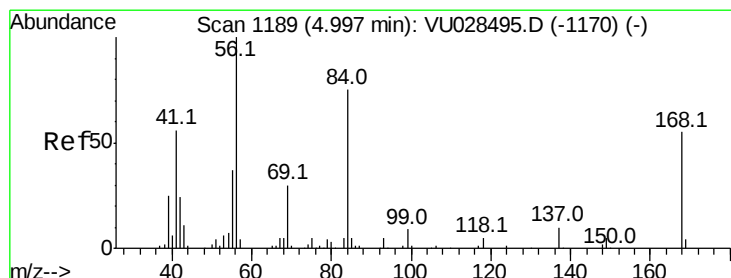
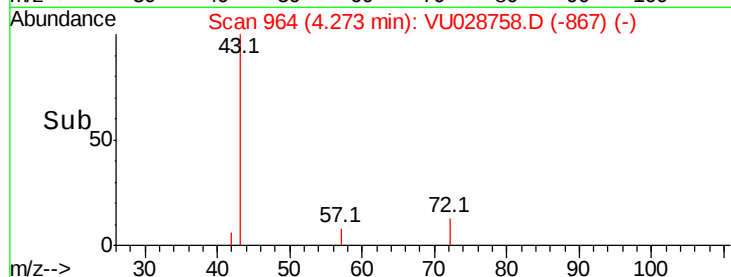
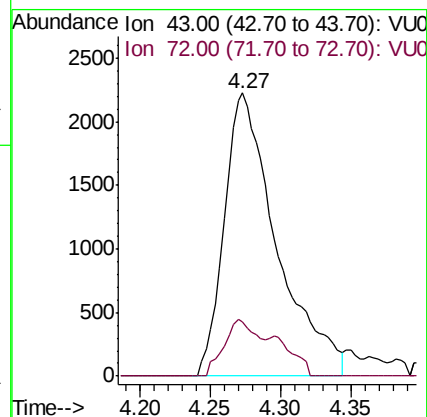
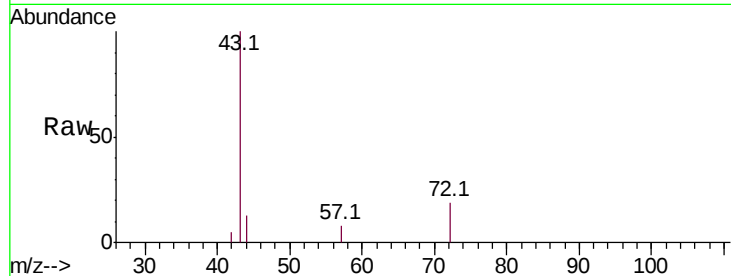
Instrument :
MSVOA_U
ClientSampleId :

Tot Ion: 43 Resp: 5771

Ion Ratio Lower Upper

43 100

72 19.0 18.6 28.0



#31

Cyclohexane

Concen: Below Cal

RT: 4.98 min Scan# 1184

Delta R.T. -0.02 min

Lab File: VU028758.D

Acq: 18 Dec 2018 07:12

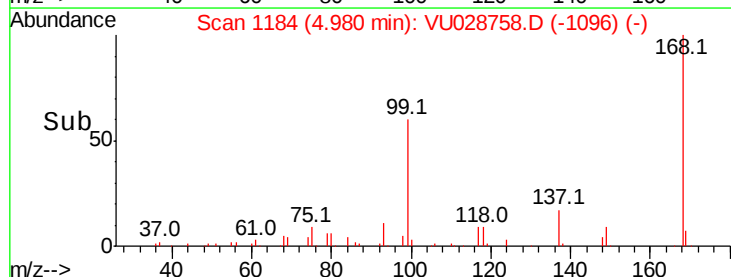
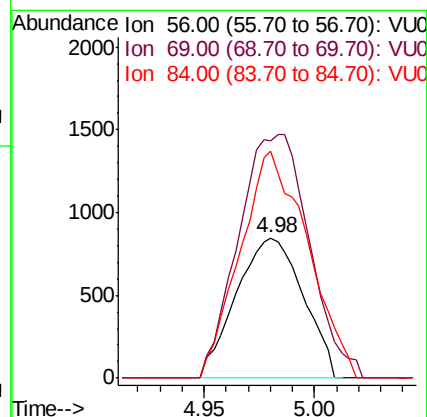
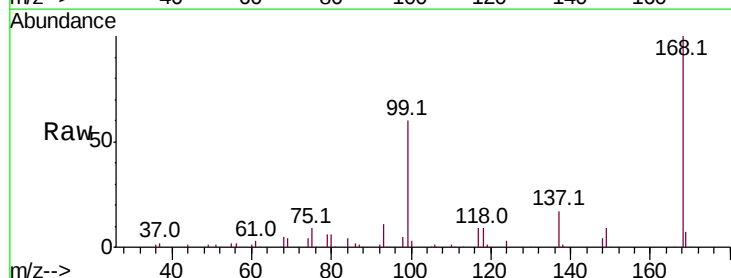
Tgt Ion: 56 Resp: 1782

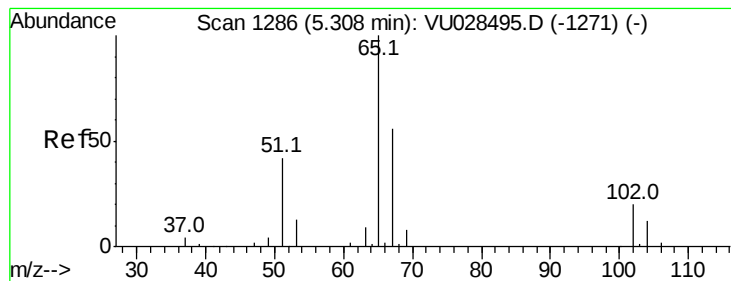
Ion Ratio Lower Upper

56 100

69 168.6 24.0 36.0#

84 161.7 59.7 89.5#





#33

1,2-Dichloroethane-d4

Concen: 54.135 ug/l

RT: 5.31 min Scan# 1286

Delta R.T. -0.00 min

Lab File: VU028758.D

Acq: 18 Dec 2018 07:12

Instrument :

MSVOA_U

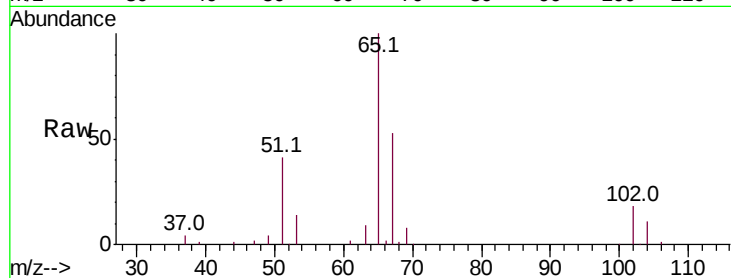
ClientSampleId :

Tot Ion: 65 Resp: 66930

Ion Ratio Lower Upper

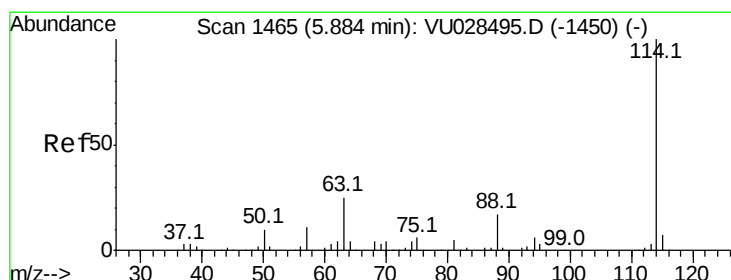
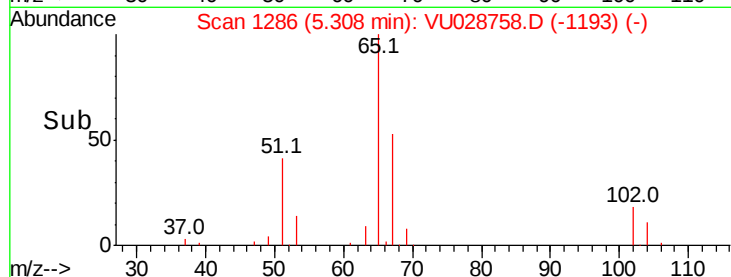
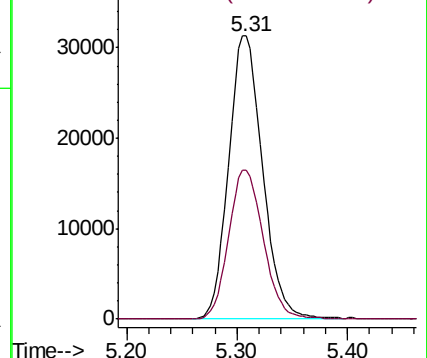
65 100

67 53.6 0.0 110.6



Abundance Ion 64.90 (64.60 to 65.60): VU0

Ion 66.90 (66.60 to 67.60): VU0



#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 5.89 min Scan# 1466

Delta R.T. 0.00 min

Lab File: VU028758.D

Acq: 18 Dec 2018 07:12

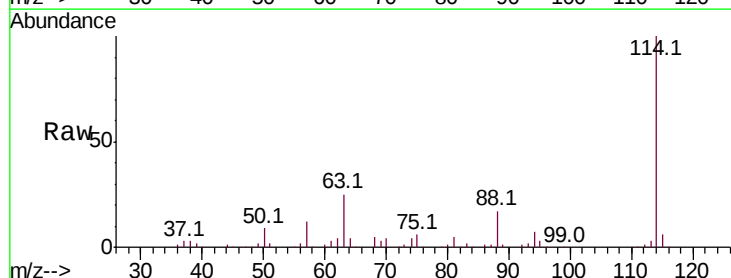
Tgt Ion:114 Resp: 142023

Ion Ratio Lower Upper

114 100

63 25.3 0.0 49.2

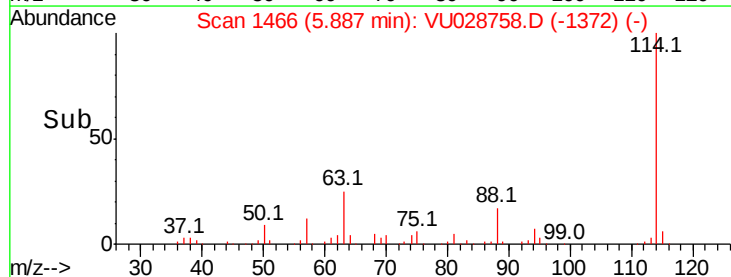
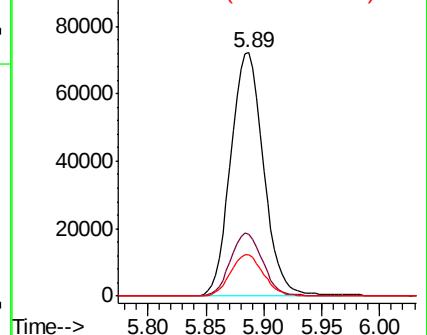
88 16.8 0.0 33.4

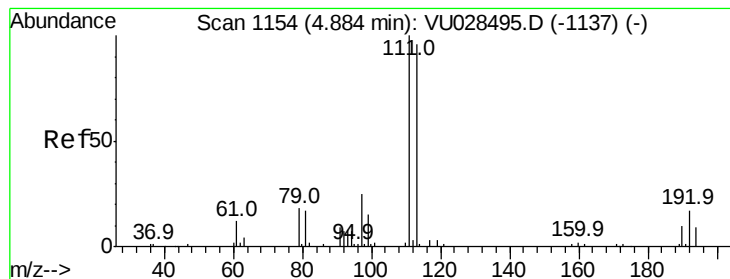


Abundance Ion 113.90 (113.60 to 114.60): V

Ion 63.00 (62.70 to 63.70): VU0

Ion 87.90 (87.60 to 88.60): VU0





#35

Dibromofluoromethane

Concen: 55.870 ug/l

RT: 4.88 min Scan# 1153

Delta R.T. -0.00 min

Lab File: VU028758.D

Acq: 18 Dec 2018 07:12

Instrument :
MSVOA_U
ClientSampleId :

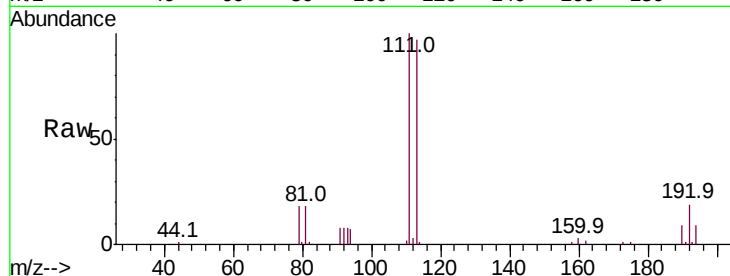
Tot Ion:113 Resp: 49934

Ion Ratio Lower Upper

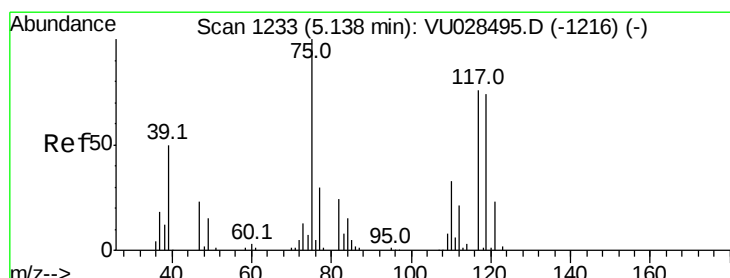
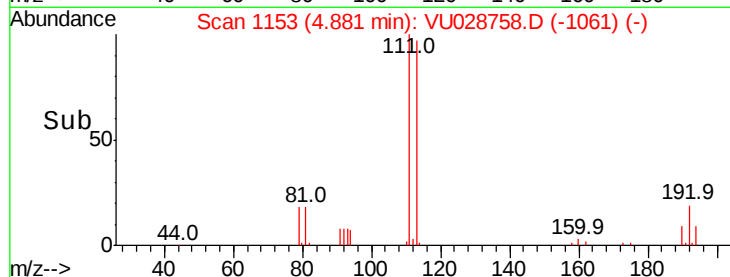
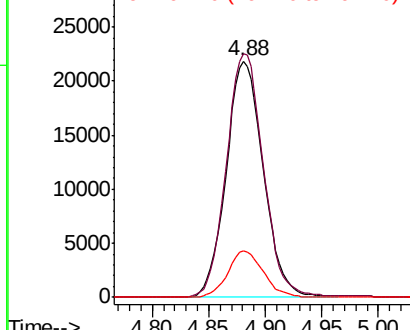
113 100

111 102.9 83.4 125.0

192 18.7 14.8 22.2



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: 4.886 ug/l

RT: 4.98 min Scan# 1184

Delta R.T. -0.16 min

Lab File: VU028758.D

Acq: 18 Dec 2018 07:12

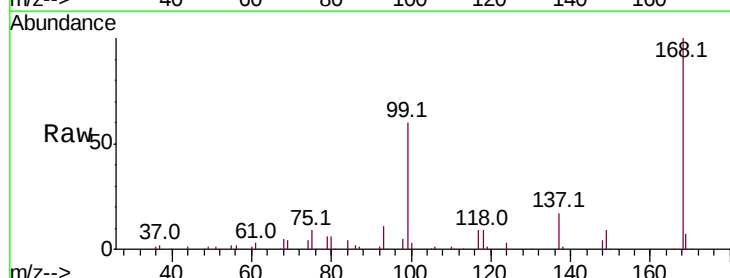
Tgt Ion: 75 Resp: 7593

Ion Ratio Lower Upper

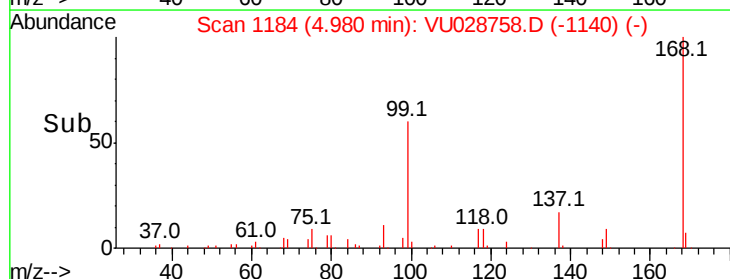
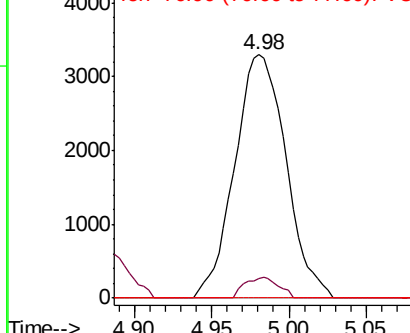
75 100

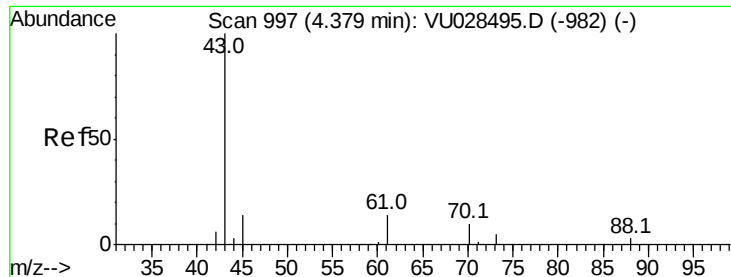
110 5.7 16.1 48.2#

77 0.0 24.5 36.7#



Abundance Ion 74.90 (74.60 to 75.60): VU0
Ion 109.90 (109.60 to 110.60): V
Ion 76.90 (76.60 to 77.60): VU0





#37

Ethyl Acetate

Concen: 2.873 ug/l

RT: 4.27 min Scan# 964

Delta R.T. -0.11 min

Lab File: VU028758.D

Acq: 18 Dec 2018 07:12

Instrument :
MSVOA_U
ClientSampleId :

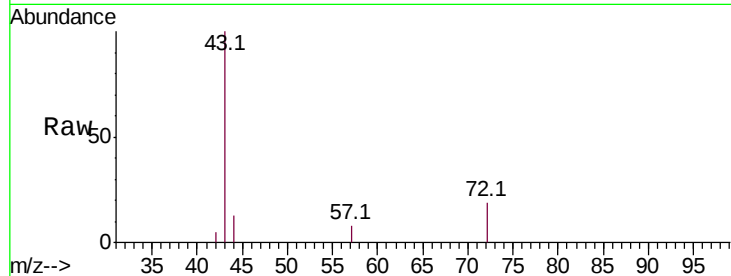
Tot Ion: 43 Resp: 5771

Ion Ratio Lower Upper

43 100

61 0.0 11.0 16.4#

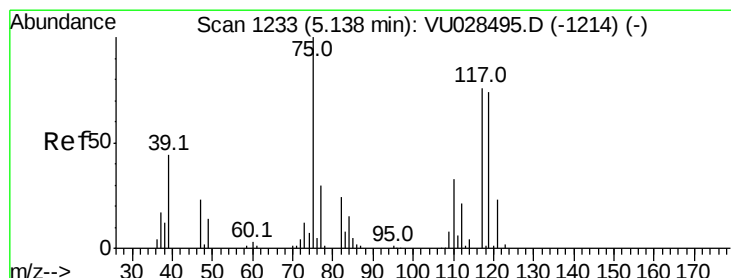
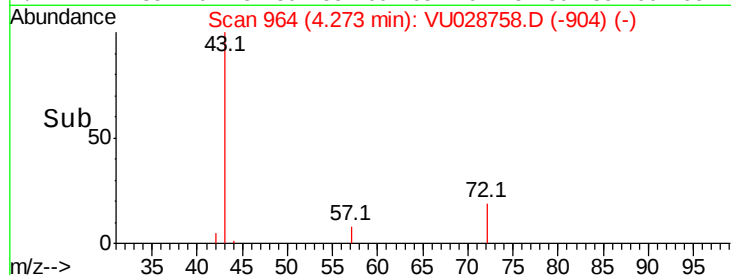
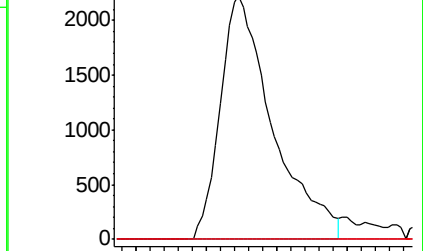
70 0.0 7.4 11.0#



Abundance Ion 43.00 (42.70 to 43.70): VU028495.D (-982) (-)

Ion 60.90 (60.60 to 61.60): VU028495.D (-982) (-)

Ion 70.00 (69.70 to 70.70): VU028495.D (-982) (-)



#38

Carbon Tetrachloride

Concen: 6.379 ug/l

RT: 4.98 min Scan# 1185

Delta R.T. -0.15 min

Lab File: VU028758.D

Acq: 18 Dec 2018 07:12

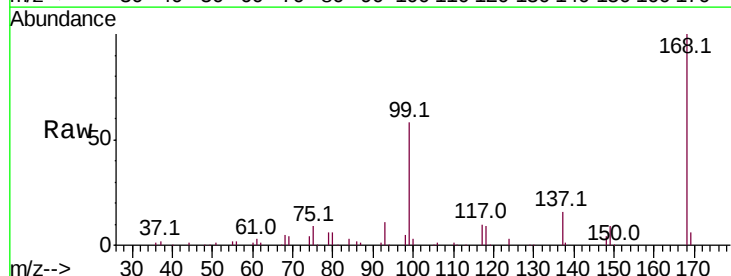
Tgt Ion: 117 Resp: 7990

Ion Ratio Lower Upper

117 100

119 5.1 77.6 116.4#

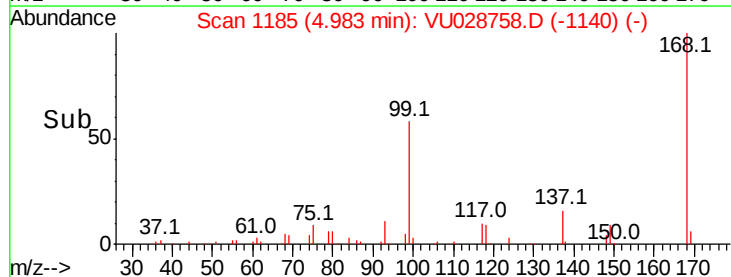
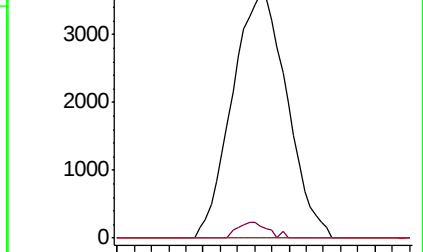
121 0.0 24.6 36.8#

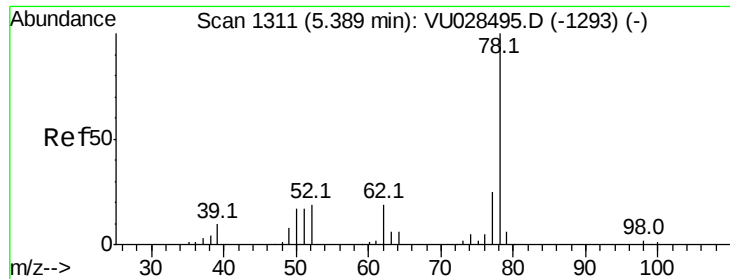


Abundance Ion 116.80 (116.50 to 117.50): VU028495.D (-1214) (-)

Ion 118.80 (118.50 to 119.50): VU028495.D (-1214) (-)

Ion 120.80 (120.50 to 121.50): VU028495.D (-1214) (-)





#40

Benzene

Concen: 0.639 ug/l

RT: 5.39 min Scan# 1312

Delta R.T. 0.00 min

Lab File: VU028758.D

Acq: 18 Dec 2018 07:12

Instrument :

MSVOA_U

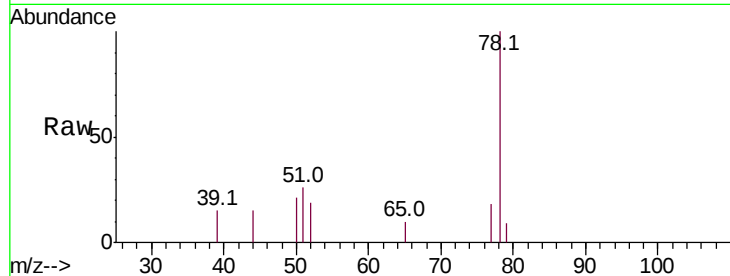
ClientSampled :

Tot Ion: 78 Resp: 2927

Ion Ratio Lower Upper

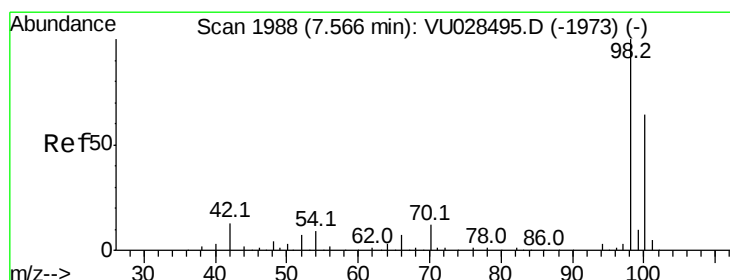
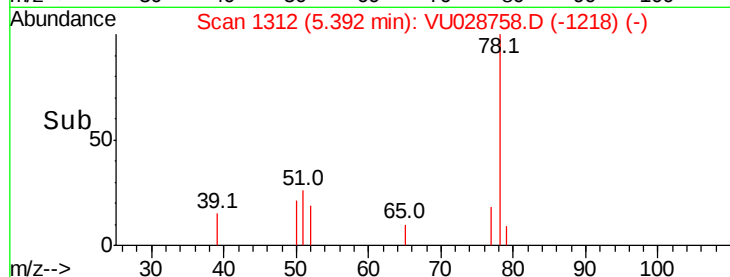
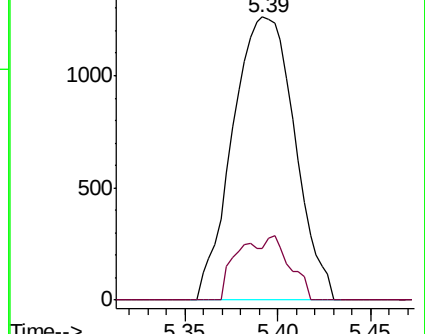
78 100

77 18.5 19.9 29.9#



Abundance Ion 78.00 (77.70 to 78.70): VU0

Ion 77.00 (76.70 to 77.70): VU0



#50

Toluene-d8

Concen: 53.032 ug/l

RT: 7.56 min Scan# 1987

Delta R.T. -0.00 min

Lab File: VU028758.D

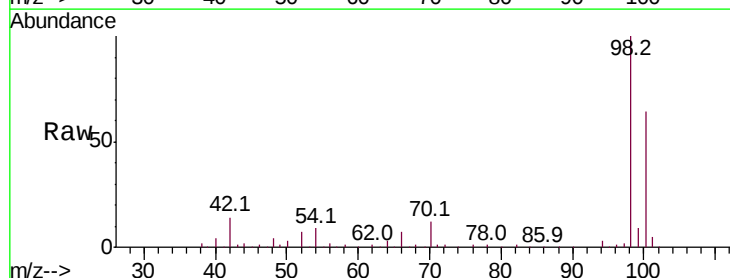
Acq: 18 Dec 2018 07:12

Tgt Ion: 98 Resp: 187496

Ion Ratio Lower Upper

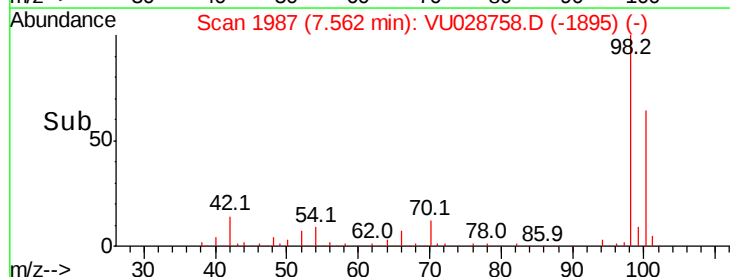
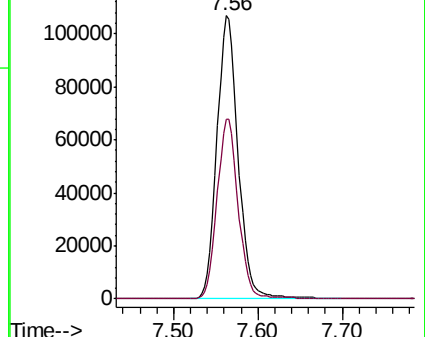
98 100

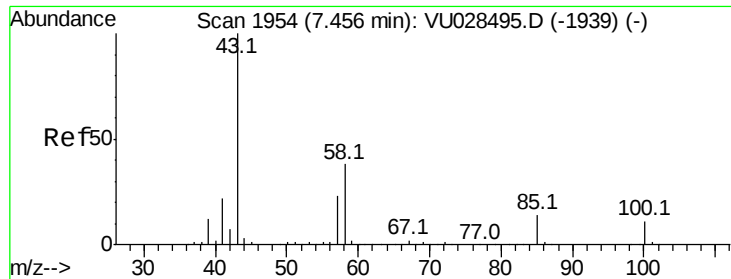
100 63.3 51.0 76.6



Abundance Ion 98.00 (97.70 to 98.70): VU0

Ion 100.00 (99.70 to 100.70): VU0





#51

4-Methyl-2-Pentanone

Concen: 0.511 ug/l

RT: 7.56 min Scan# 1986

Delta R.T. 0.10 min

Lab File: VU028758.D

Acq: 18 Dec 2018 07:12

Instrument :

MSVOA_U

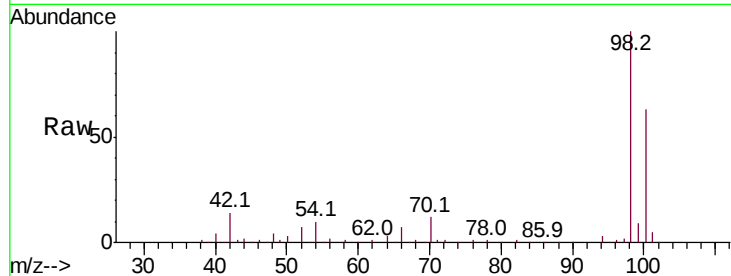
ClientSampled :

Tot Ion: 43 Resp: 1024

Ion Ratio Lower Upper

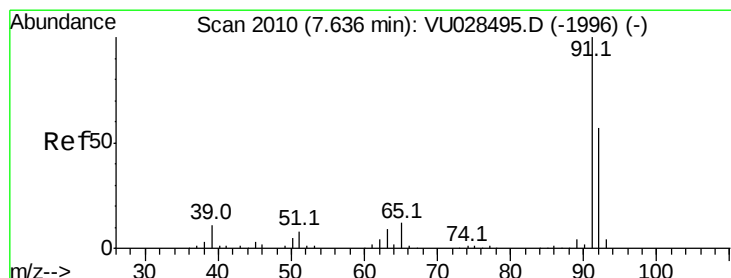
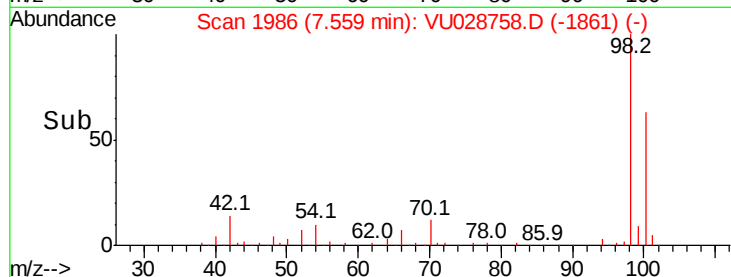
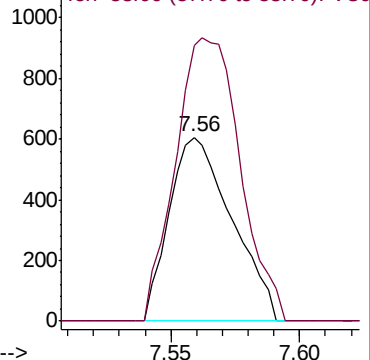
43 100

58 159.6 30.2 45.2#



Abundance Ion 43.00 (42.70 to 43.70): VU0

Ion 58.00 (57.70 to 58.70): VU0



#52

Toluene

Concen: 0.571 ug/l

RT: 7.64 min Scan# 2012

Delta R.T. 0.01 min

Lab File: VU028758.D

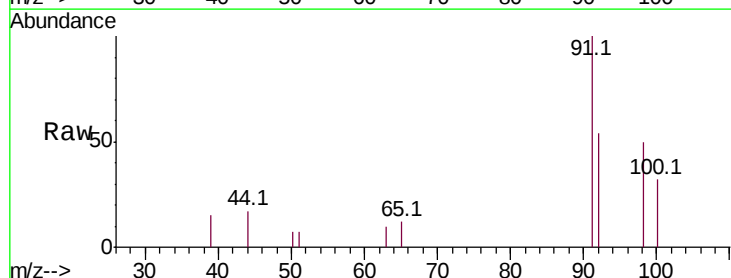
Acq: 18 Dec 2018 07:12

Tgt Ion: 92 Resp: 1537

Ion Ratio Lower Upper

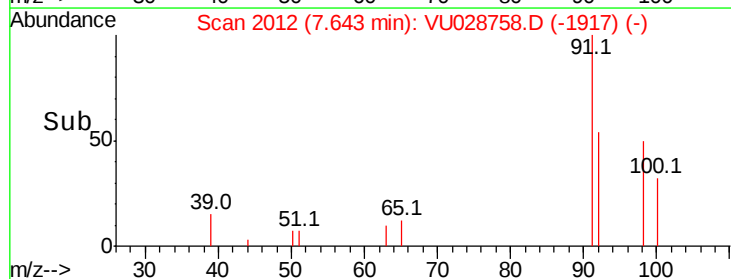
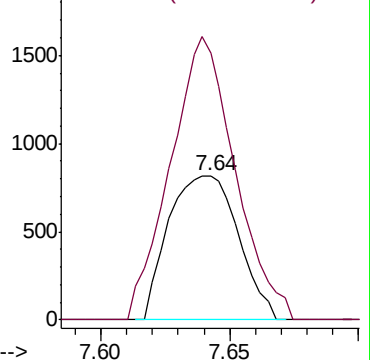
92 100

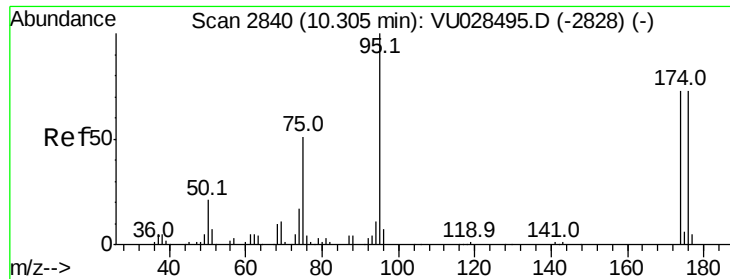
91 182.6 140.2 210.4



Abundance Ion 92.00 (91.70 to 92.70): VU0

Ion 91.00 (90.70 to 91.70): VU0





#62

4-Bromofluorobenzene

Concen: 46.656 ug/l

RT: 10.30 min Scan# 2840

Delta R.T. -0.00 min

Lab File: VU028758.D

Acq: 18 Dec 2018 07:12

Instrument :

MSVOA_U

ClientSampled :

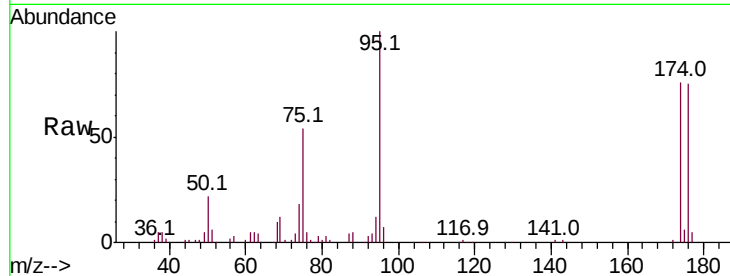
Tot Ion: 95 Resp: 61654

Ion Ratio Lower Upper

95 100

174 75.2 0.0 150.4

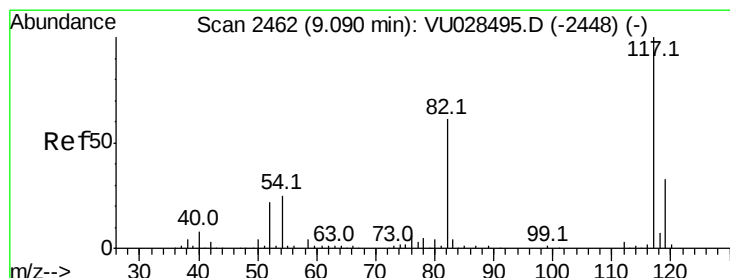
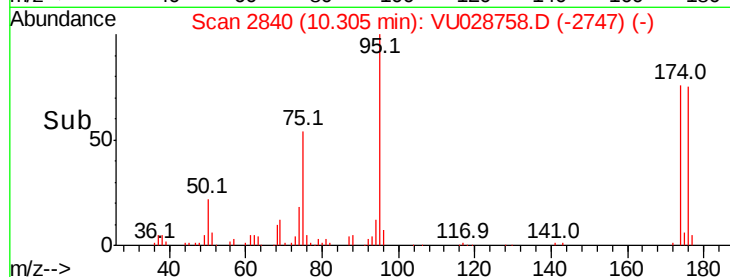
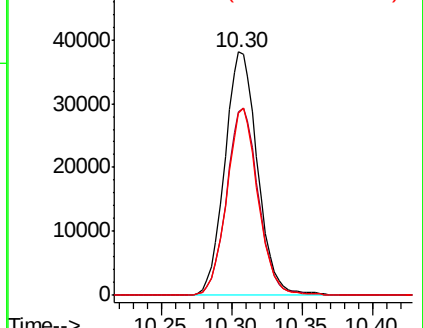
176 73.5 0.0 145.2



Abundance Ion 94.90 (94.60 to 95.60): VU028495.D (-2828) (-)

Ion 173.80 (173.50 to 174.50): VU028495.D (-2828) (-)

Ion 175.80 (175.50 to 176.50): VU028495.D (-2828) (-)



#63

Chlorobenzene-d5

Concen: 50.000 ug/l

RT: 9.09 min Scan# 2462

Delta R.T. -0.00 min

Lab File: VU028758.D

Acq: 18 Dec 2018 07:12

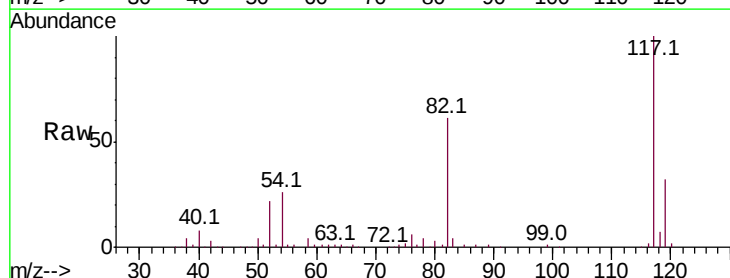
Tgt Ion: 117 Resp: 131481

Ion Ratio Lower Upper

117 100

82 60.8 48.9 73.3

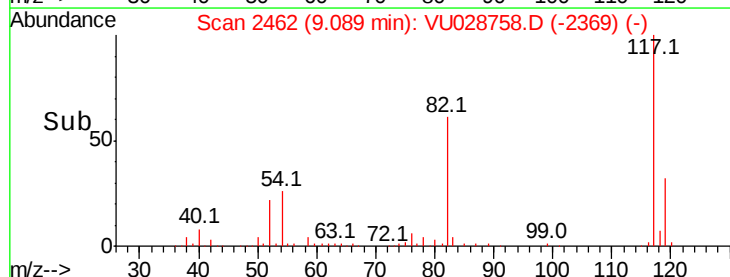
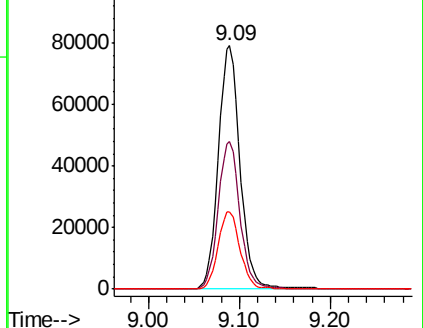
119 31.9 26.2 39.4

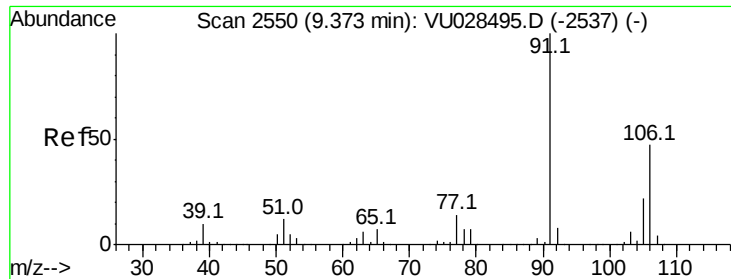


Abundance Ion 116.90 (116.60 to 117.60): VU028495.D (-2448) (-)

Ion 82.00 (81.70 to 82.70): VU028495.D (-2448) (-)

Ion 118.90 (118.60 to 119.60): VU028495.D (-2448) (-)

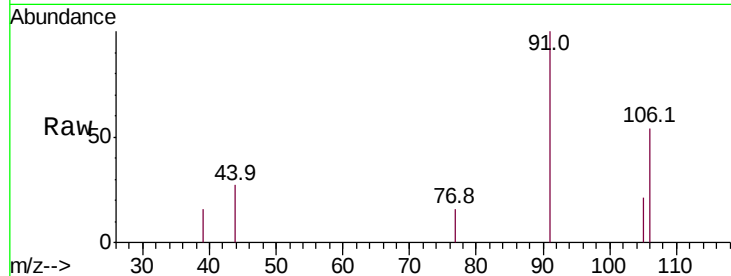




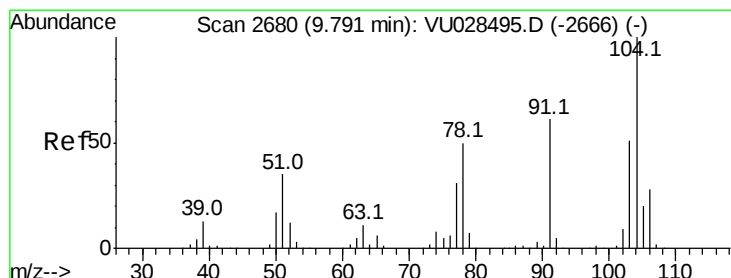
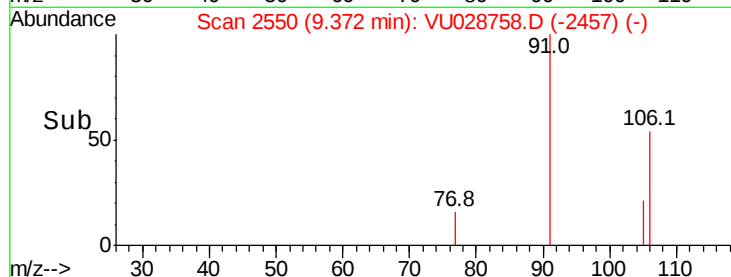
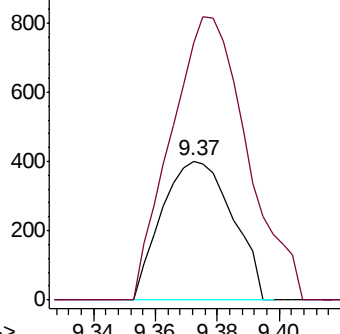
#68
m/p-Xylenes
Concen: 0.340 ug/l
RT: 9.37 min Scan# 2550
Delta R.T. -0.00 min
Lab File: VU028758.D
Acq: 18 Dec 2018 07:12

Instrument :
MSVOA_U
ClientSampled :

Tot Ion:106 Resp: 637
Ion Ratio Lower Upper
106 100
91 219.8 167.4 251.0

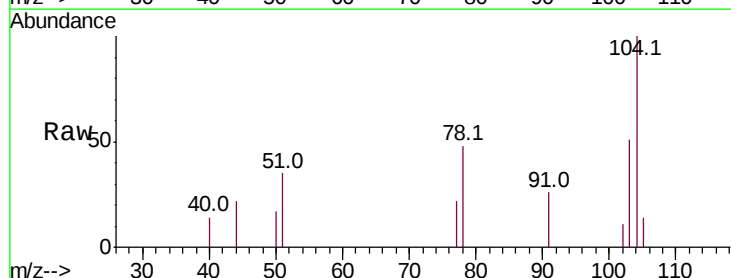


Abundance Ion 106.00 (105.70 to 106.70): V
Ion 91.00 (90.70 to 91.70): VU0

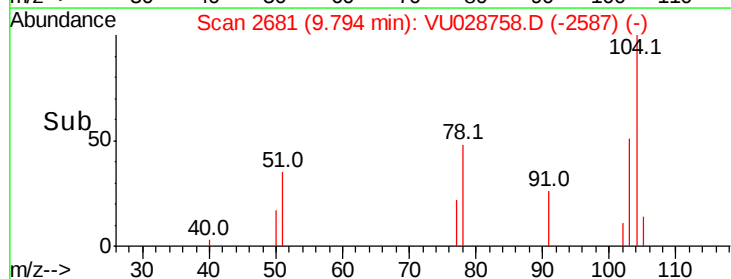
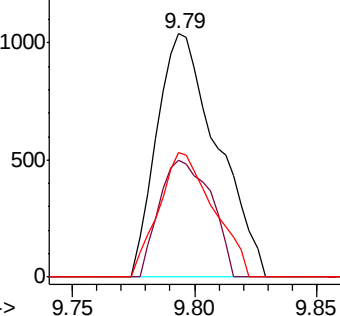


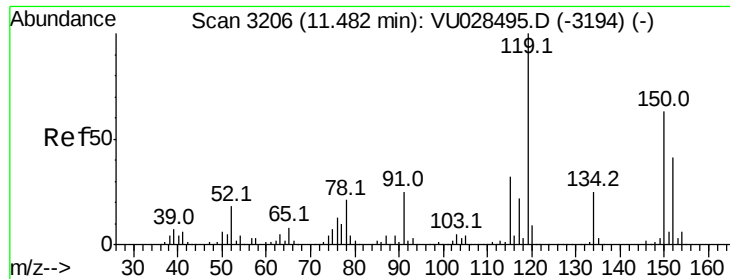
#70
Styrene
Concen: 0.595 ug/l
RT: 9.79 min Scan# 2681
Delta R.T. 0.00 min
Lab File: VU028758.D
Acq: 18 Dec 2018 07:12

Tgt Ion:104 Resp: 1792
Ion Ratio Lower Upper
104 100
78 41.2 43.0 64.6#
103 46.4 44.2 66.4



Abundance Ion 104.00 (103.70 to 104.70): V
Ion 78.00 (77.70 to 78.70): VU0
Ion 103.00 (102.70 to 103.70): V





#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

RT: 11.48 min Scan# 3206

Delta R.T. -0.00 min

Lab File: VU028758.D

Acq: 18 Dec 2018 07:12

Instrument :

MSVOA_U

ClientSampleId :

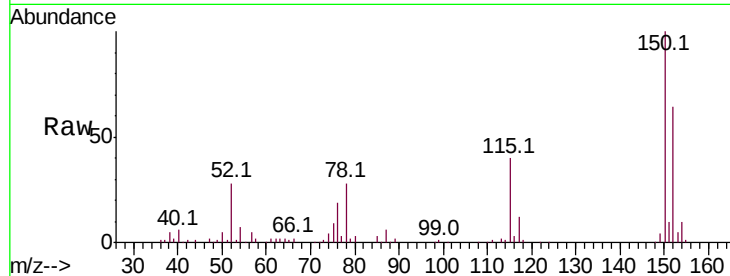
Tot Ion:152 Resp: 52107

Ion Ratio Lower Upper

152 100

115 62.1 42.7 128.1

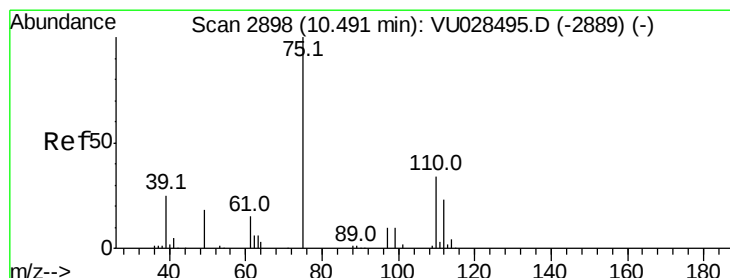
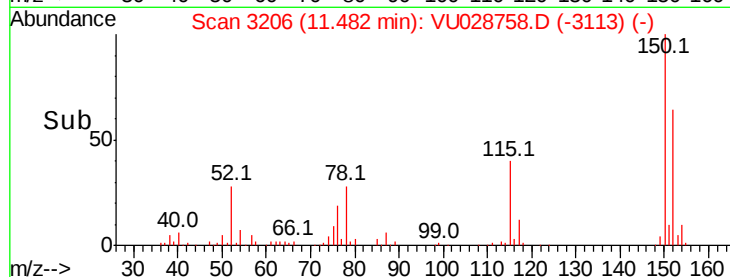
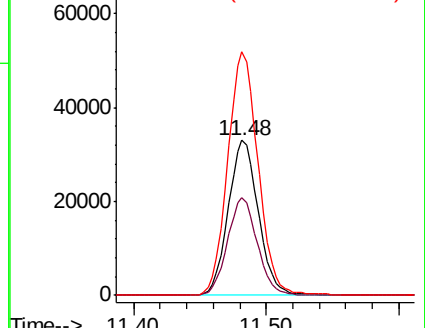
150 158.2 0.0 346.0



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: 24.402 ug/l

RT: 10.30 min Scan# 2840

Delta R.T. -0.19 min

Lab File: VU028758.D

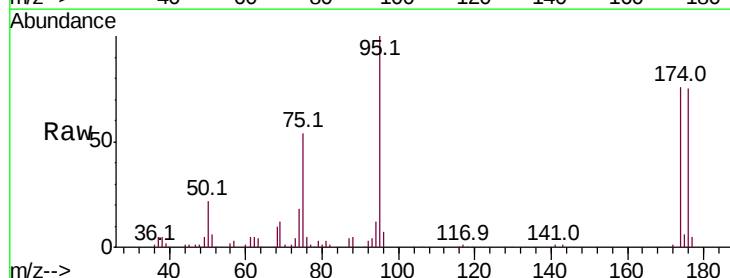
Acq: 18 Dec 2018 07:12

Tgt Ion: 75 Resp: 32468

Ion Ratio Lower Upper

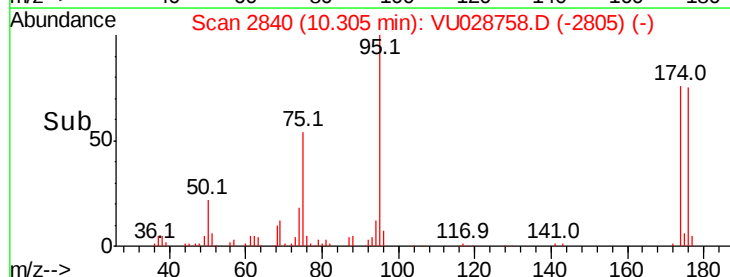
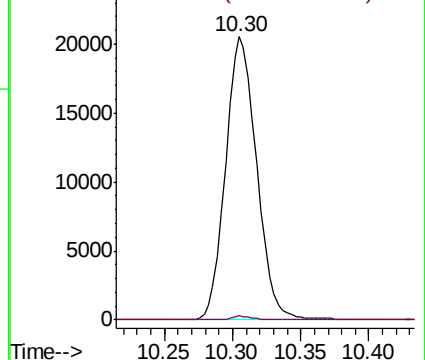
75 100

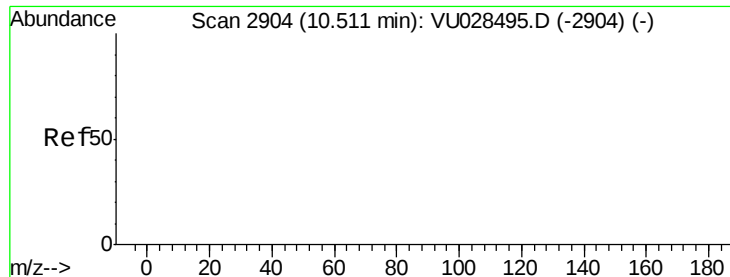
77 0.8 20.8 62.4#



Abundance Ion 74.90 (74.60 to 75.60): VU0

Ion 77.00 (76.70 to 77.70): VU0

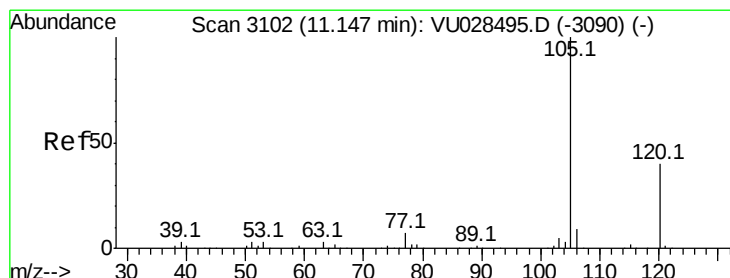
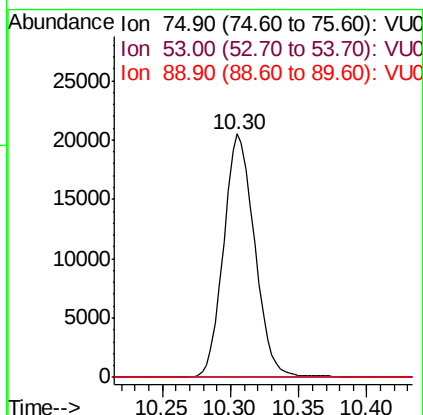
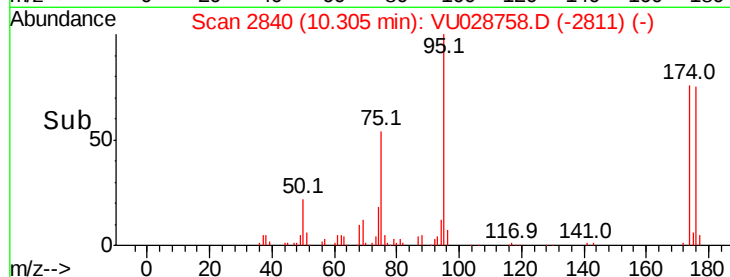
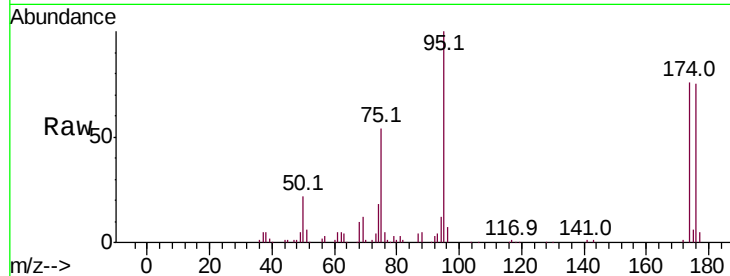




#81
trans-1,4-Dichloro-2-butene
Concen: 59.891 ug/l
RT: 10.30 min Scan# 2840
Delta R.T. -0.21 min
Lab File: VU028758.D
Acq: 18 Dec 2018 07:12

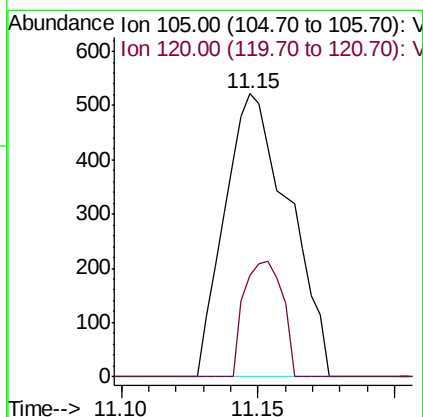
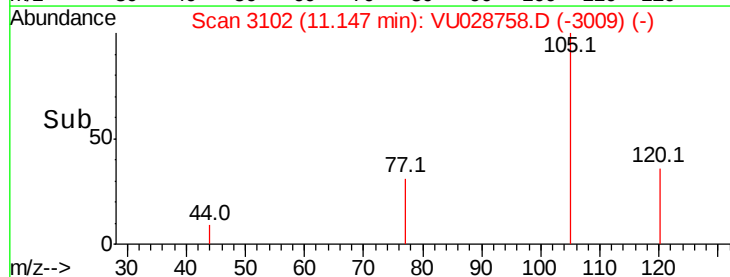
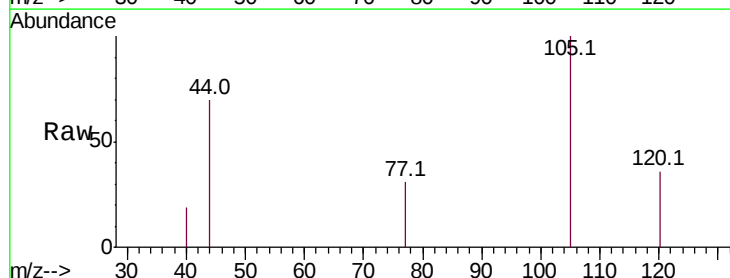
Instrument :
MSVOA_U
ClientSampleId :

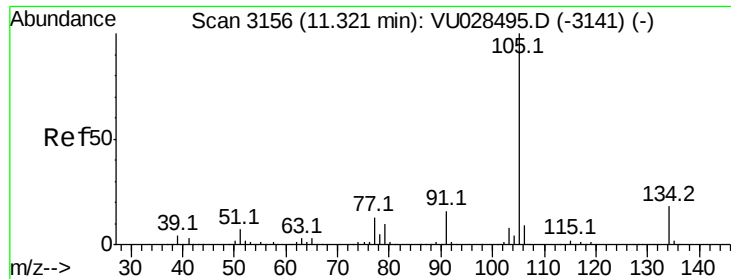
Tot Ion: 75 Resp: 32468
Ion Ratio Lower Upper
75 100
53 0.0 0.0 0.0
89 0.0 0.0 0.0



#84
1,2,4-Trimethylbenzene
Concen: 0.251 ug/l
RT: 11.15 min Scan# 3102
Delta R.T. -0.00 min
Lab File: VU028758.D
Acq: 18 Dec 2018 07:12

Tgt Ion: 105 Resp: 856
Ion Ratio Lower Upper
105 100
120 23.9 21.8 65.4





#85

sec-Butylbenzene

Concen: 0.209 ug/l

RT: 11.15 min Scan# 3102

Delta R.T. -0.17 min

Lab File: VU028758.D

Acq: 18 Dec 2018 07:12

Instrument :

MSVOA_U

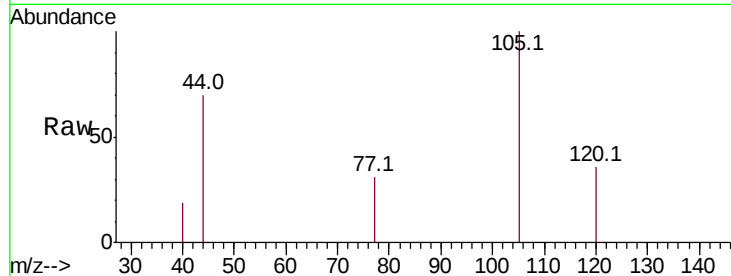
ClientSampleId :

Tot Ion:105 Resp: 856

Ion Ratio Lower Upper

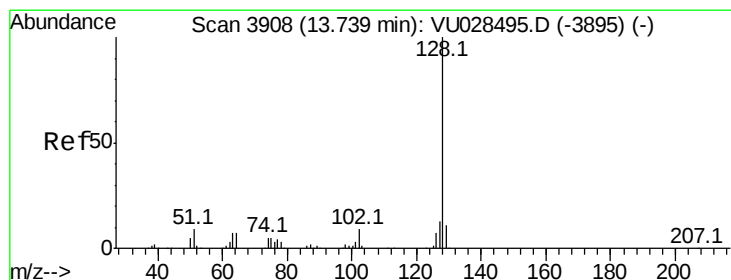
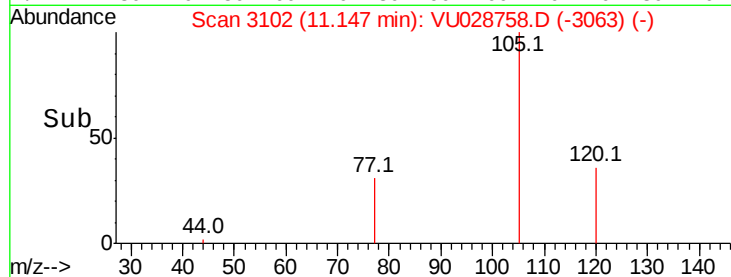
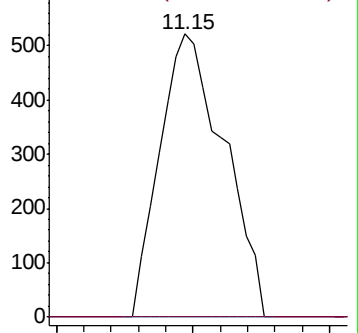
105 100

134 0.0 9.2 27.6#



Abundance Ion 105.00 (104.70 to 105.70): V

Ion 134.00 (133.70 to 134.70): V



#95

Naphthalene

Concen: 1.143 ug/l

RT: 13.75 min Scan# 3912

Delta R.T. 0.01 min

Lab File: VU028758.D

Acq: 18 Dec 2018 07:12

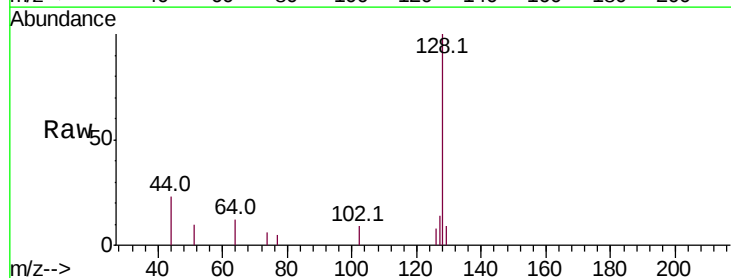
Tgt Ion:128 Resp: 4844

Ion Ratio Lower Upper

128 100

127 7.4 10.4 15.6#

129 7.0 8.6 13.0#



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

