

Data Path : Z:\VOASRV\HPCHEM1\MSVOA U\DATA\VU092818\
 Data File : VU027246.D
 Acq On : 28 Sep 2018 00:06
 Operator : MD/SY
 Sample : J5029-10
 Misc : 5.0mL/MSVOA U/WATER
 ALS Vial : 20 Sample Multiplier: 1

Instrument :
 MSVOA_U
 ClientSampleId :
 T11-MW-3-8.0-092018

Quant Time: Sep 28 03:43:13 2018
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_U\METHOD\82U092218W.M
 Quant Title : SW846 8260
 QLast Update : Sat Sep 22 01:31:57 2018
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	4.99	168	89690	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	5.89	114	152752	50.00	ug/l	0.00
63) Chlorobenzene-d5	9.09	117	150295	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	11.48	152	70059	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	97378	53.94	ug/l	0.00
Spiked Amount			Recovery	=	107.88%	
35) Dibromofluoromethane	4.88	113	67795	51.20	ug/l	0.00
Spiked Amount			Recovery	=	102.40%	
50) Toluene-d8	7.57	98	249683	49.48	ug/l	0.00
Spiked Amount			Recovery	=	98.96%	
62) 4-Bromofluorobenzene	10.31	95	79542	45.94	ug/l	0.00
Spiked Amount			Recovery	=	91.88%	

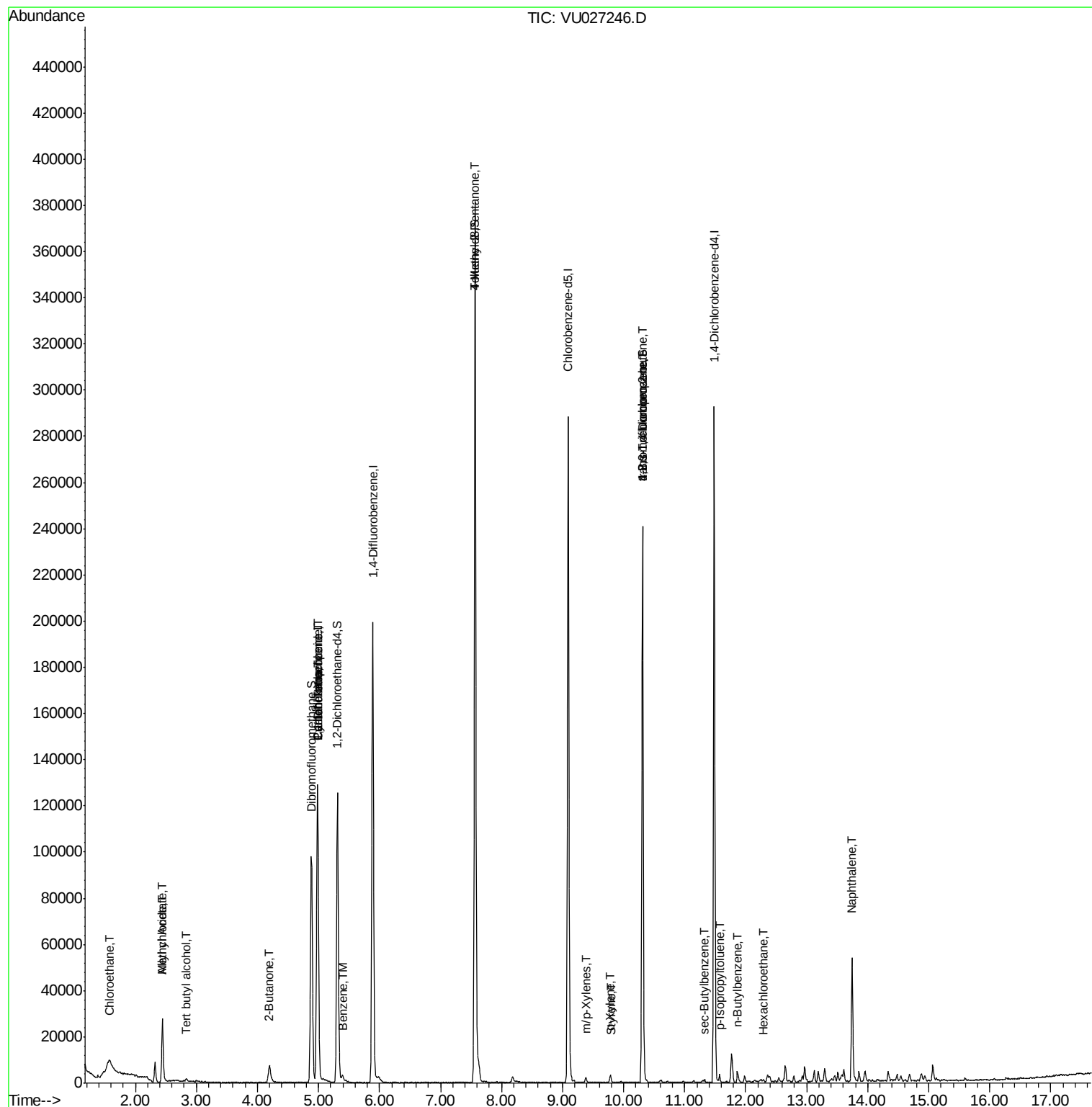
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
6) Chloroethane	1.57	64	19676	16.340	ug/l #	52
11) Tert butyl alcohol	2.84	59	927	2.240	ug/l #	72
14) Allyl chloride	2.45	41	2909	1.158	ug/l #	73
16) Acetone	2.32	43	9047	Below Cal		93
18) Methyl Acetate	2.44	43	7065	2.750	ug/l #	55
25) 2-Butanone	4.20	43	364	0.240	ug/l #	53
31) Cyclohexane	4.98	56	2450	0.339	ug/l #	5
36) 1,1-Dichloropropene	4.99	75	8717	4.276	ug/l #	49
38) Carbon Tetrachloride	4.99	117	9559	4.927	ug/l #	20
40) Benzene	5.39	78	2687	0.434	ug/l	99
51) 4-Methyl-2-Pentanone	7.56	43	1199	0.443	ug/l #	1
68) m/p-Xylenes	9.39	106	677	1.752	ug/l #	71
69) o-Xylene	9.79	106	1009	0.435	ug/l	90
70) Styrene	9.81	104	19	1.814	ug/l #	24
76) 1,2,3-Trichloropropane	10.31	75	43402	20.392	ug/l #	35
81) trans-1,4-Dichloro-2-buten	10.31	75	43402	65.258	ug/l #	100
85) sec-Butylbenzene	11.33	105	1217	0.229	ug/l	88
86) p-Isopropyltoluene	11.57	119	99	0.947	ug/l #	1
89) n-Butylbenzene	11.87	91	520	2.495	ug/l #	1
90) Hexachloroethane	12.29	117	735	0.761	ug/l #	13
95) Naphthalene	13.75	128	41362	8.579	ug/l	98

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

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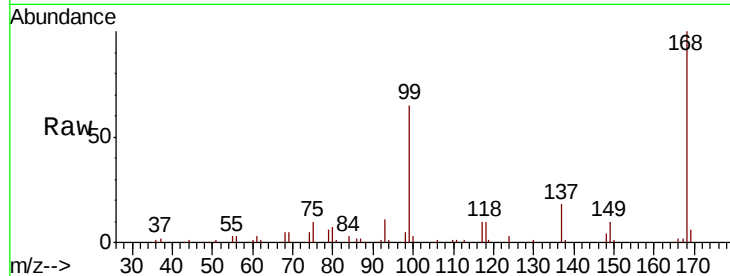




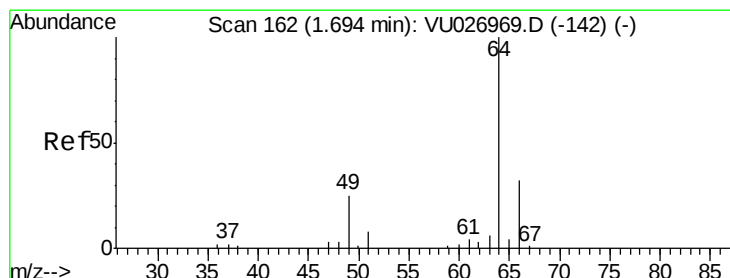
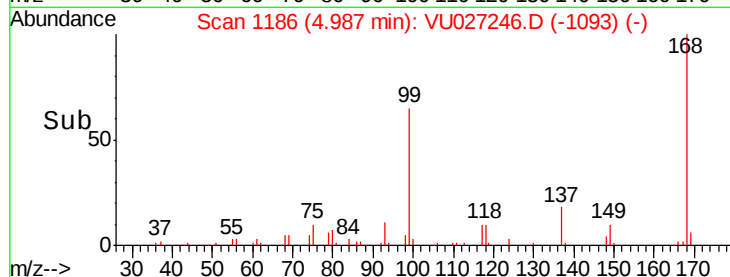
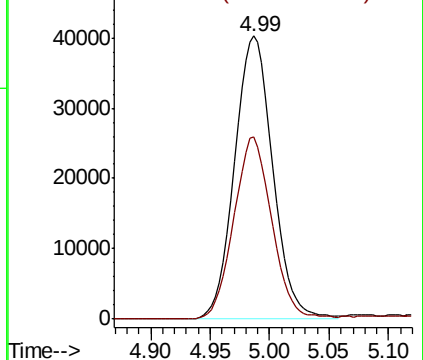
#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 4.99 min Scan# 1186
Delta R.T. -0.00 min
Lab File: VU027246.D
Acq: 28 Sep 2018 00:06

Instrument :
MSVOA_U
ClientSampleId :
T11-MW-3-8.0-092018

Tot Ion:168 Resp: 89690
Ion Ratio Lower Upper
168 100
99 64.6 48.1 72.1

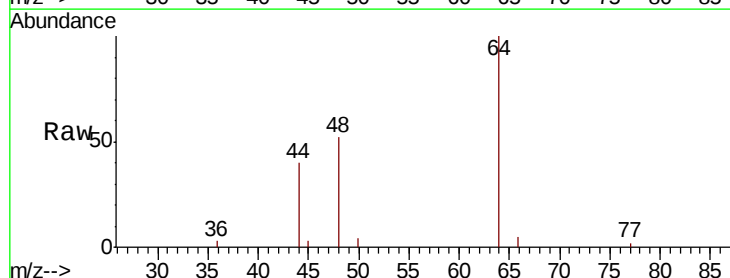


Abundance Ion 167.90 (167.60 to 168.60): VU026969.D (-1169) (-)
Ion 98.90 (98.60 to 99.60): VU026969.D (-1169) (-)

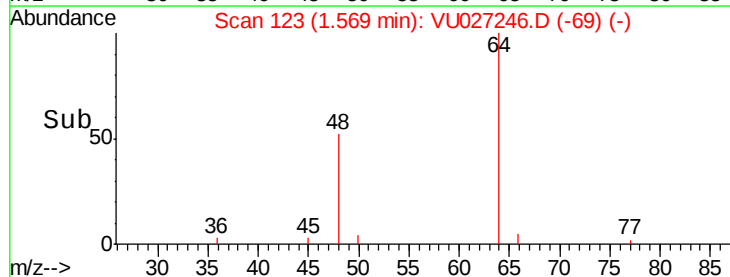
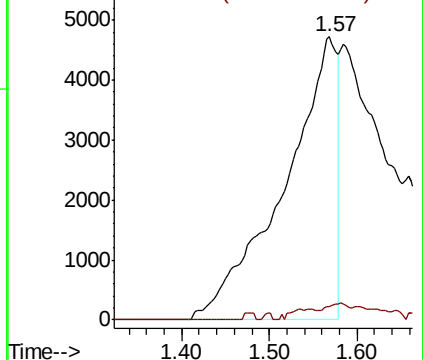


#6
Chloroethane
Concen: 16.340 ug/l
RT: 1.57 min Scan# 123
Delta R.T. -0.13 min
Lab File: VU027246.D
Acq: 28 Sep 2018 00:06

Tgt Ion: 64 Resp: 19676
Ion Ratio Lower Upper
64 100
66 4.8 25.3 37.9#



Abundance Ion 63.90 (63.60 to 64.60): VU026969.D (-142) (-)
Ion 65.90 (65.60 to 66.60): VU026969.D (-142) (-)



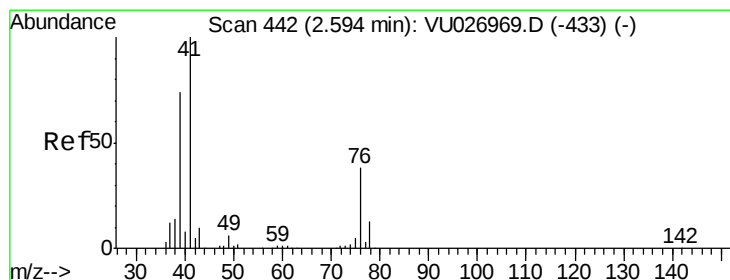
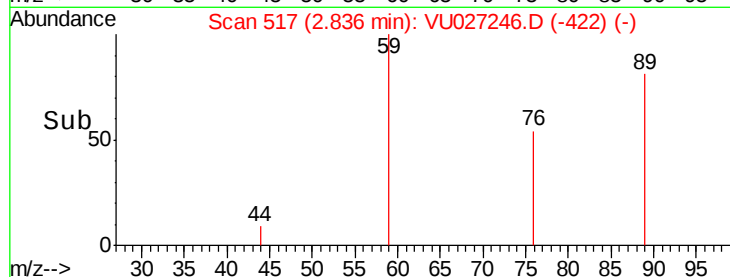
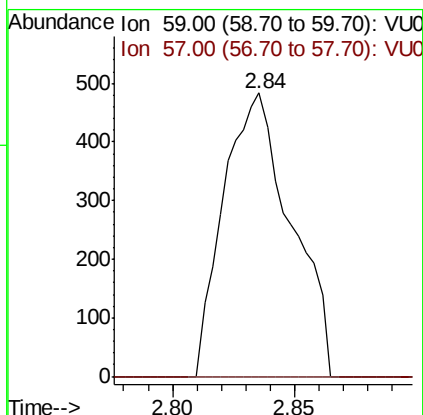
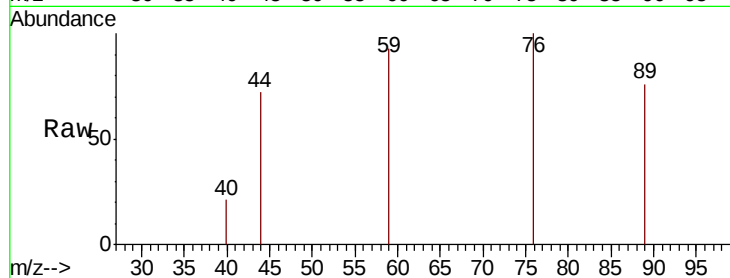


#11

Tert butyl alcohol
 Concen: 2.240 ug/l
 RT: 2.84 min Scan# 517
 Delta R.T. 0.01 min
 Lab File: VU027246.D
 Acq: 28 Sep 2018 00:06

Instrument :
 MSVOA_U
 ClientSampleId :
 T11-MW-3-8.0-092018

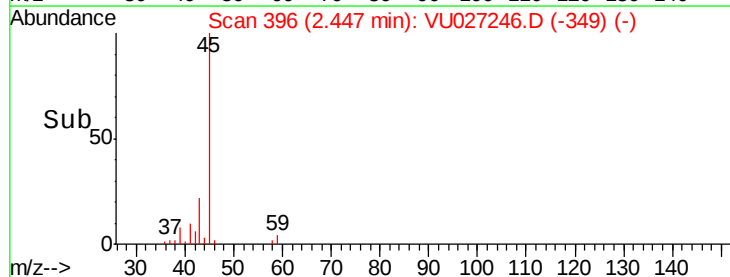
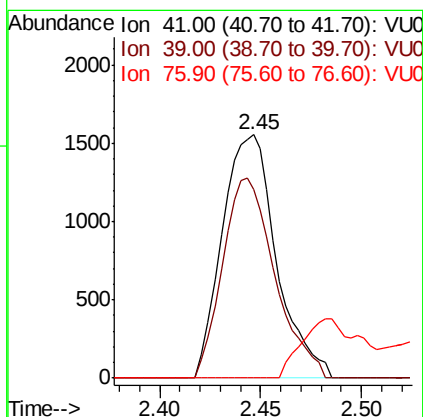
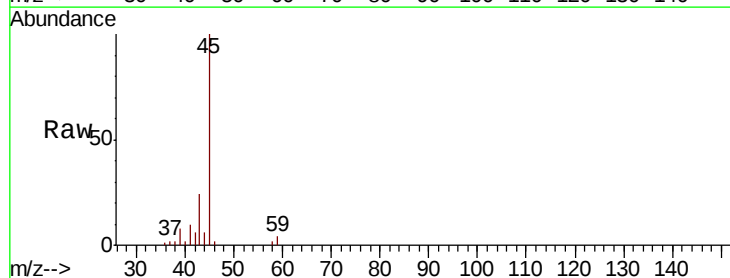
Tot Ion: 59 Resp: 927
 Ion Ratio Lower Upper
 59 100
 57 0.0 8.5 12.7#



#14

Allyl chloride
 Concen: 1.158 ug/l
 RT: 2.45 min Scan# 396
 Delta R.T. -0.15 min
 Lab File: VU027246.D
 Acq: 28 Sep 2018 00:06

Tgt Ion: 41 Resp: 2909
 Ion Ratio Lower Upper
 41 100
 39 79.4 55.7 83.5
 76 0.0 26.5 39.7#





#16

Acetone

Concen: Below Cal

RT: 2.32 min Scan# 357

Delta R.T. -0.00 min

Lab File: VU027246.D

Acq: 28 Sep 2018 00:06

Instrument :

MSVOA_U

ClientSampleId :

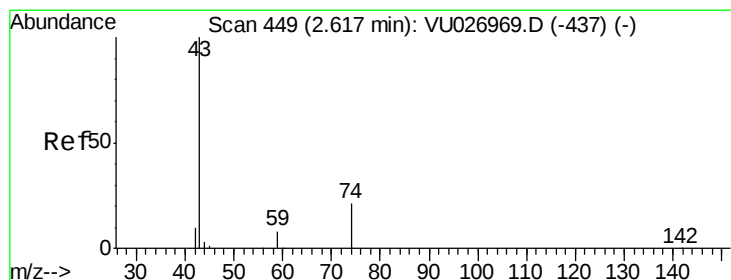
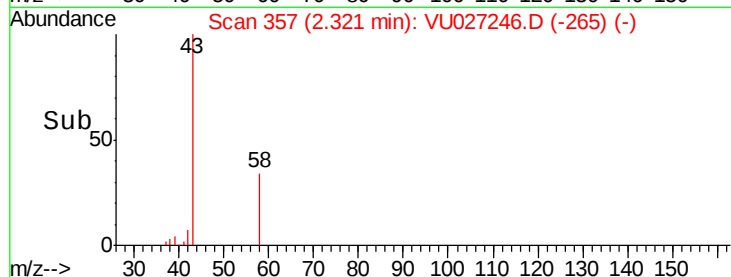
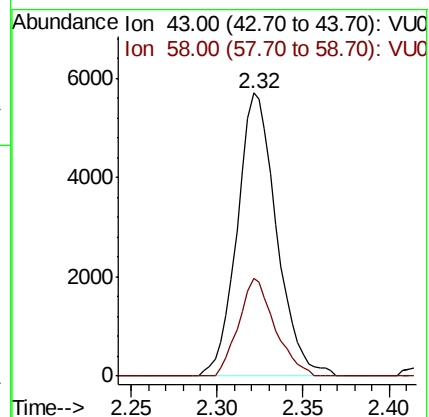
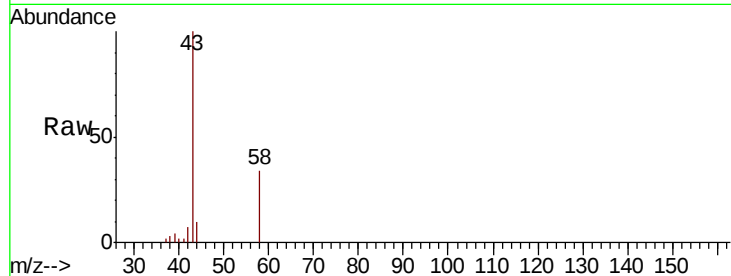
T11-MW-3-8.0-092018

Tot Ion: 43 Resp: 9047

Ion Ratio Lower Upper

43 100

58 34.4 24.6 36.8



#18

Methyl Acetate

Concen: 2.750 ug/l

RT: 2.44 min Scan# 395

Delta R.T. -0.17 min

Lab File: VU027246.D

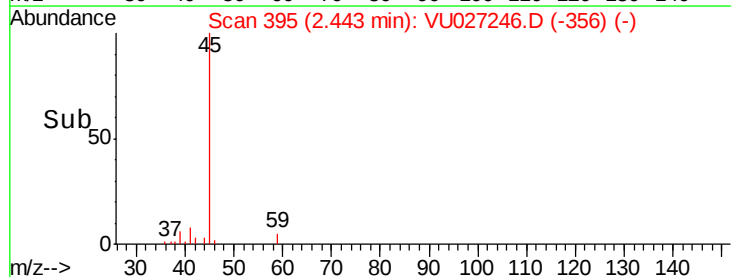
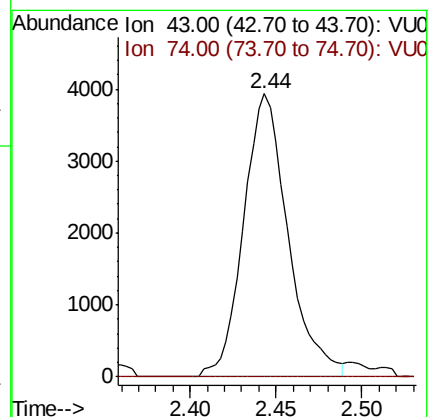
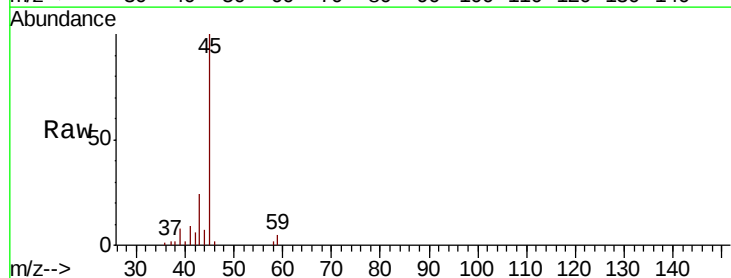
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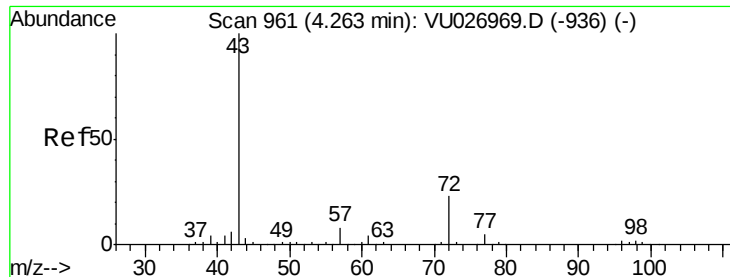
Tgt Ion: 43 Resp: 7065

Ion Ratio Lower Upper

43 100

74 0.0 16.6 25.0#





#25

2-Butanone

Concen: 0.240 ug/l

RT: 4.20 min Scan# 940

Delta R.T. -0.07 min

Lab File: VU027246.D

Acq: 28 Sep 2018 00:06

Instrument :

MSVOA_U

ClientSampleId :

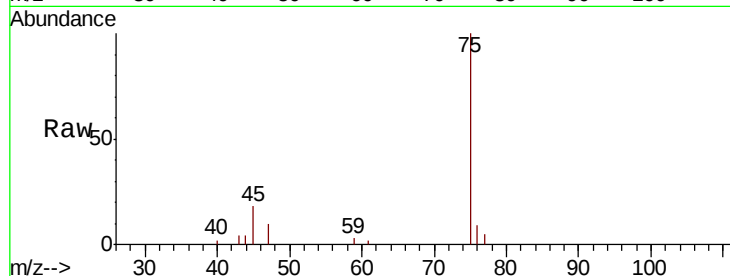
T11-MW-3-8.0-092018

Tot Ion: 43 Resp: 364

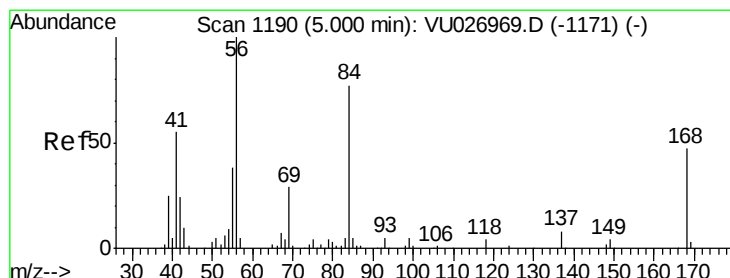
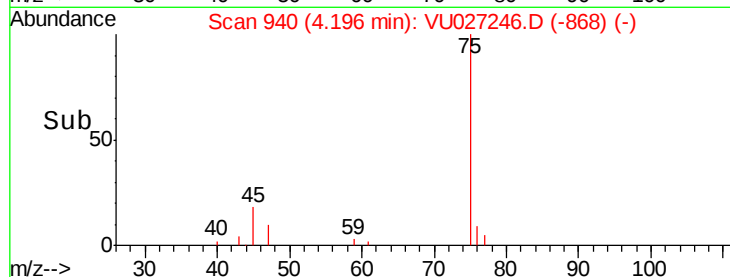
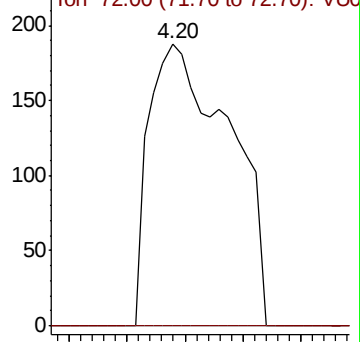
Ion Ratio Lower Upper

43 100

72 0.0 18.4 27.6#



Abundance Ion 43.00 (42.70 to 43.70): VU026969.D (-936) (-)



#31

Cyclohexane

Concen: 0.339 ug/l

RT: 4.98 min Scan# 1185

Delta R.T. -0.02 min

Lab File: VU027246.D

Acq: 28 Sep 2018 00:06

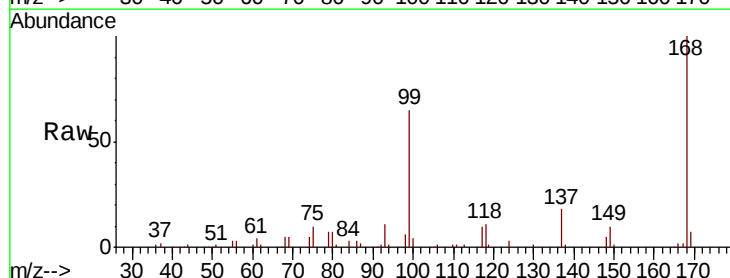
Tgt Ion: 56 Resp: 2450

Ion Ratio Lower Upper

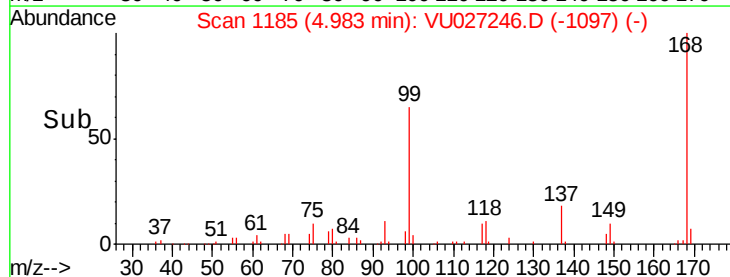
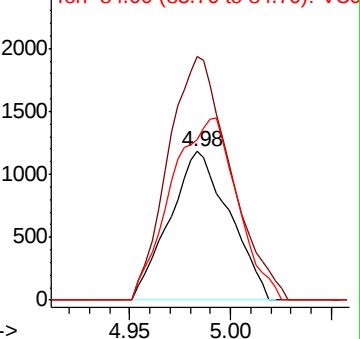
56 100

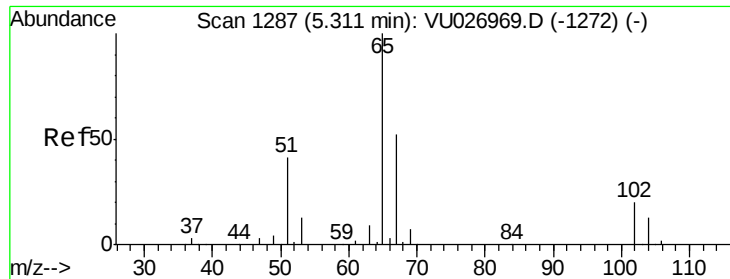
69 163.8 23.0 34.4#

84 107.9 61.4 92.2#



Abundance Ion 56.00 (55.70 to 56.70): VU026969.D (-1171) (-)

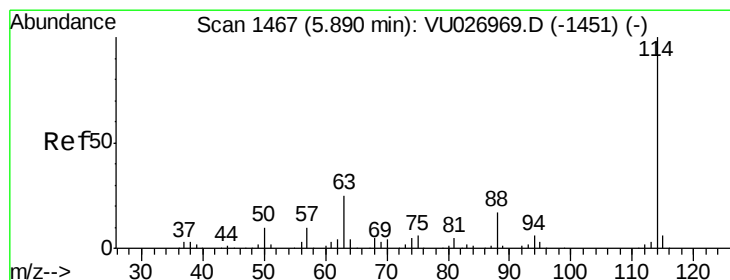
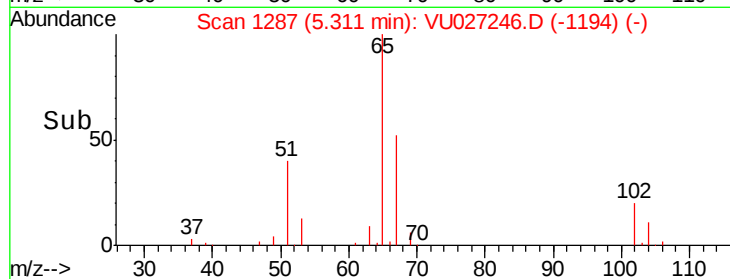
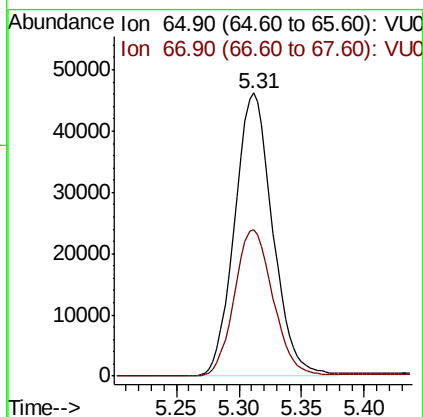
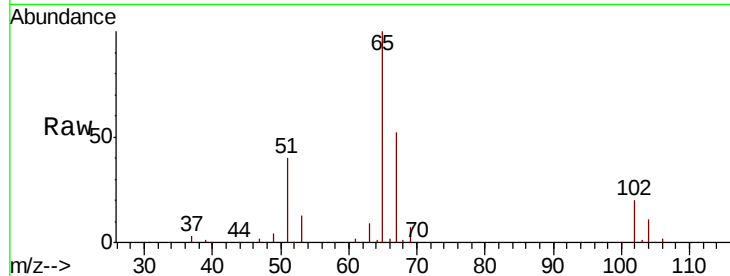




#33
 1,2-Dichloroethane-d4
 Concen: 53.944 ug/l
 RT: 5.31 min Scan# 1287
 Delta R.T. -0.00 min
 Lab File: VU027246.D
 Acq: 28 Sep 2018 00:06

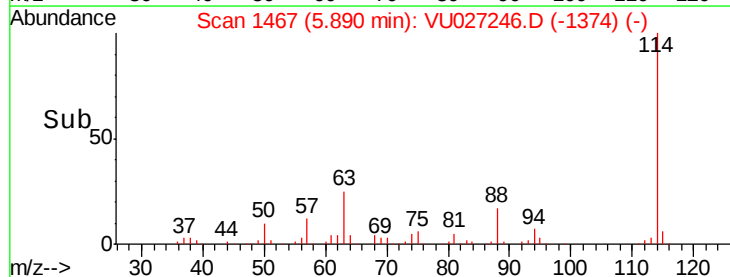
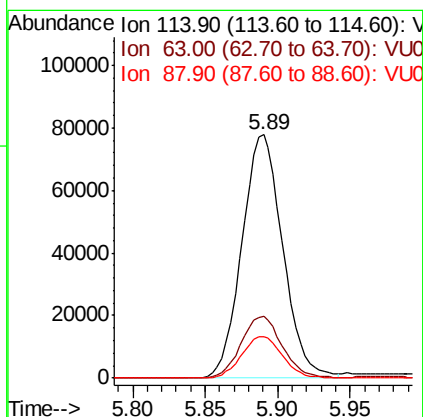
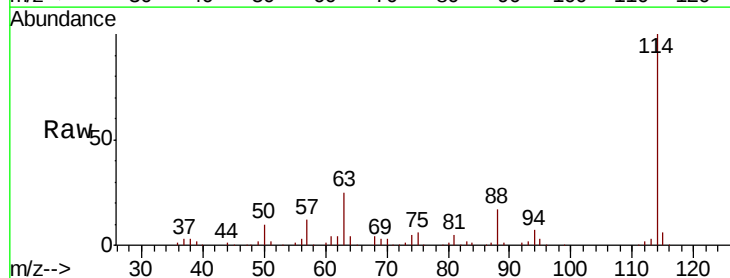
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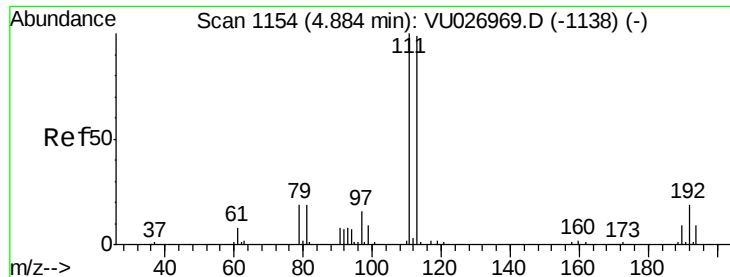
Tot Ion: 65 Resp: 97378
 Ion Ratio Lower Upper
 65 100
 67 53.0 0.0 105.6



#34
 1,4-Difluorobenzene
 Concen: 50.000 ug/l
 RT: 5.89 min Scan# 1467
 Delta R.T. -0.00 min
 Lab File: VU027246.D
 Acq: 28 Sep 2018 00:06

Tgt Ion: 114 Resp: 152752
 Ion Ratio Lower Upper
 114 100
 63 25.2 0.0 49.2
 88 17.3 0.0 33.8

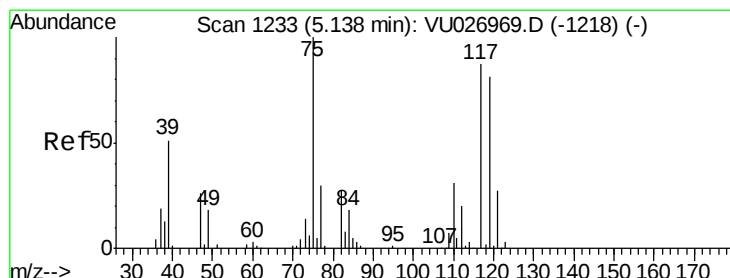
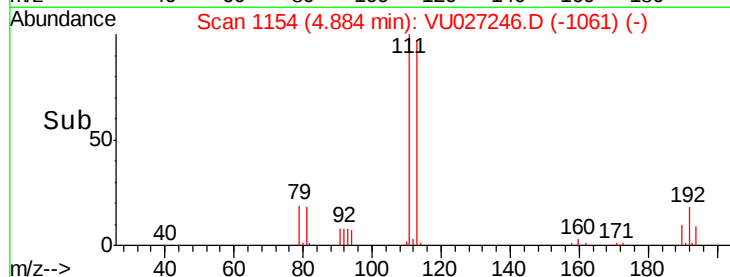
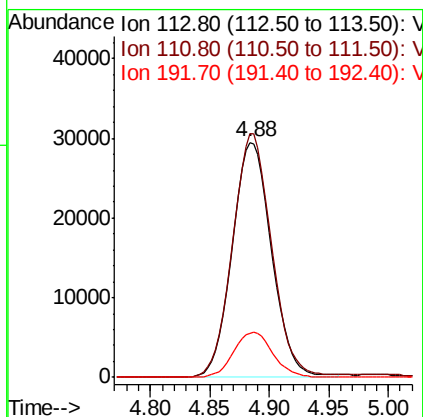
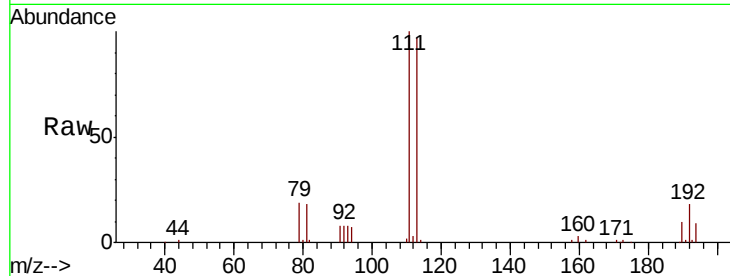




#35
 Dibromofluoromethane
 Concen: 51.202 ug/l
 RT: 4.88 min Scan# 1154
 Delta R.T. 0.00 min
 Lab File: VU027246.D
 Acq: 28 Sep 2018 00:06

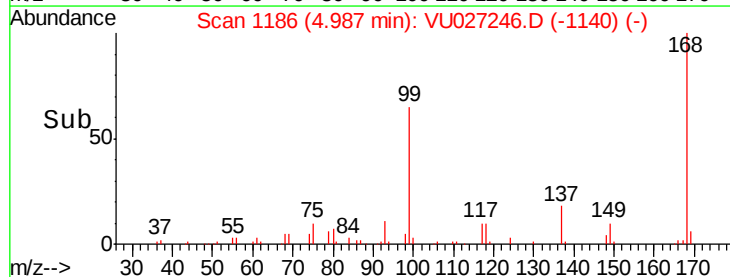
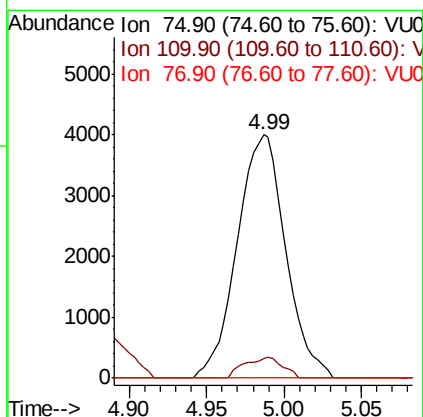
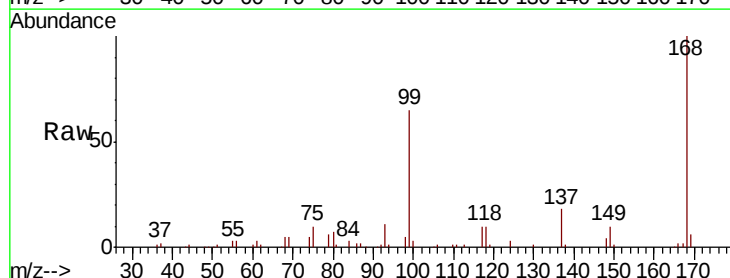
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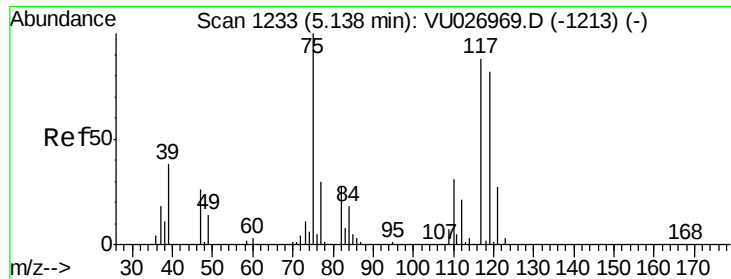
Tot Ion:113 Resp: 67795
 Ion Ratio Lower Upper
 113 100
 111 102.6 82.2 123.4
 192 19.0 15.2 22.8



#36
 1,1-Dichloropropene
 Concen: 4.276 ug/l
 RT: 4.99 min Scan# 1186
 Delta R.T. -0.15 min
 Lab File: VU027246.D
 Acq: 28 Sep 2018 00:06

Tgt Ion: 75 Resp: 8717
 Ion Ratio Lower Upper
 75 100
 110 6.7 16.1 48.2#
 77 0.0 24.6 36.8#





#38

Carbon Tetrachloride

Concen: 4.927 ug/l

RT: 4.99 min Scan# 1186

Delta R.T. -0.15 min

Lab File: VU027246.D

Acq: 28 Sep 2018 00:06

Instrument :

MSVOA_U

ClientSampleId :

T11-MW-3-8.0-092018

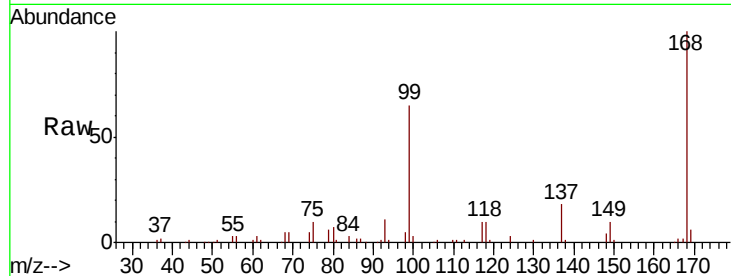
Tot Ion:117 Resp: 9559

Ion Ratio Lower Upper

117 100

119 8.2 74.4 111.6#

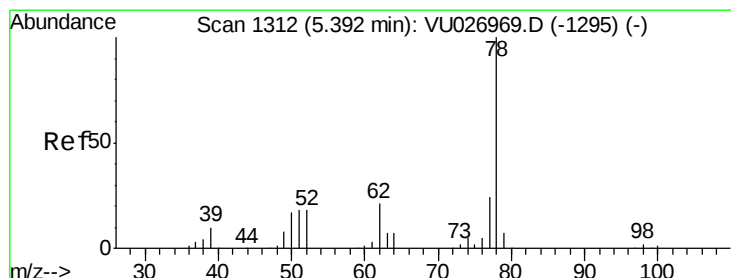
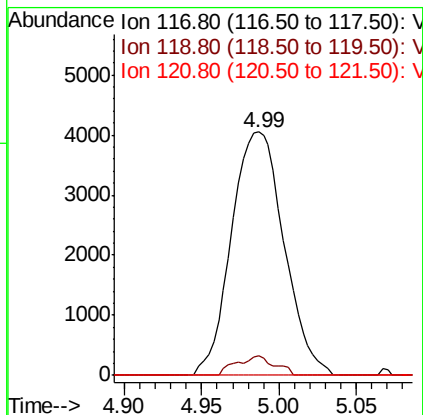
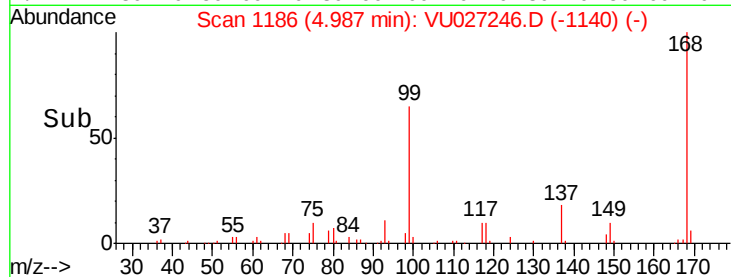
121 0.0 24.2 36.4#



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: 0.434 ug/l

RT: 5.39 min Scan# 1313

Delta R.T. 0.00 min

Lab File: VU027246.D

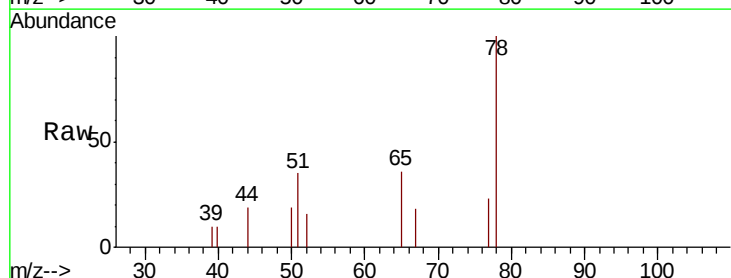
Acq: 28 Sep 2018 00:06

Tgt Ion: 78 Resp: 2687

Ion Ratio Lower Upper

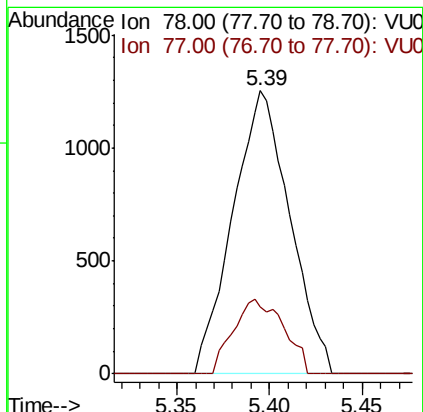
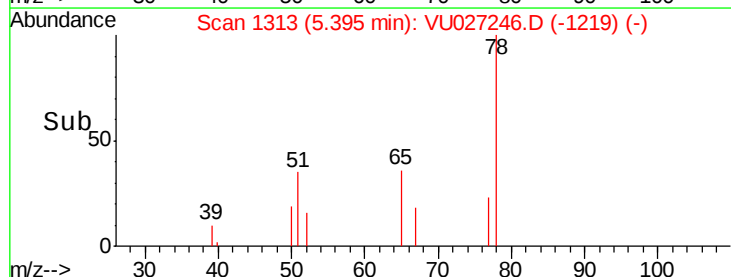
78 100

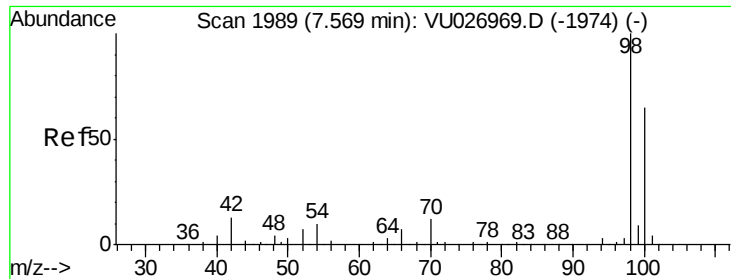
77 23.5 19.4 29.0



Abundance Ion 78.00 (77.70 to 78.70): VU0

Ion 77.00 (76.70 to 77.70): VU0





#50

Toluene-d8

Concen: 49.481 ug/l

RT: 7.57 min Scan# 1988

Delta R.T. -0.00 min

Lab File: VU027246.D

Acq: 28 Sep 2018 00:06

Instrument :

MSVOA_U

ClientSampleId :

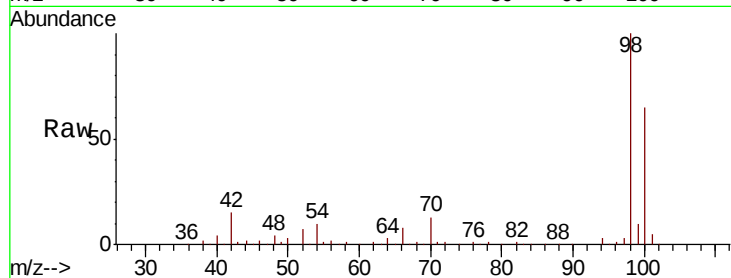
T11-MW-3-8.0-092018

Tot Ion: 98 Resp: 249683

Ion Ratio Lower Upper

98 100

100 64.4 52.1 78.1



Abundance Ion 98.00 (97.70 to 98.70): VU026969.D (-1974) (-)

Ion 100.00 (99.70 to 100.70): VU026969.D (-1974) (-)

7.57

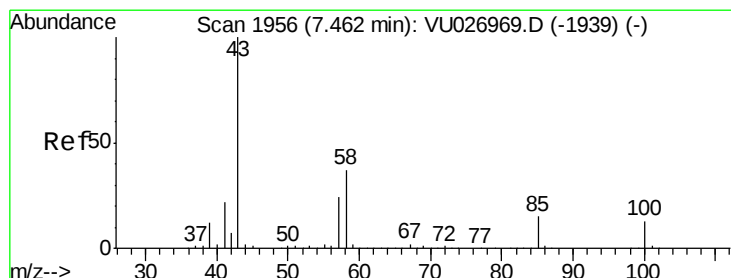
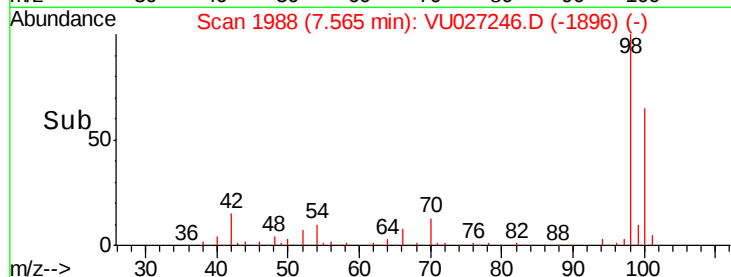
150000

100000

50000

0

Time-->



#51

4-Methyl-2-Pentanone

Concen: 0.443 ug/l

RT: 7.56 min Scan# 1987

Delta R.T. 0.10 min

Lab File: VU027246.D

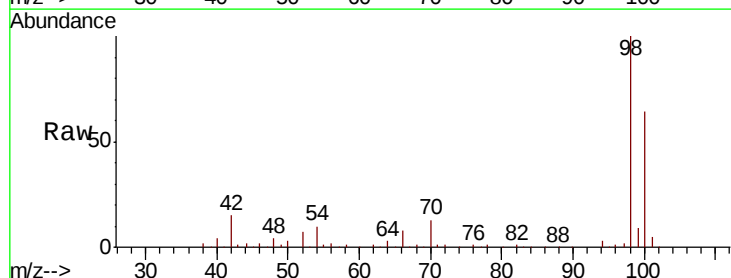
Acq: 28 Sep 2018 00:06

Tgt Ion: 43 Resp: 1199

Ion Ratio Lower Upper

43 100

58 205.3 29.8 44.6#



Abundance Ion 43.00 (42.70 to 43.70): VU026969.D (-1939) (-)

Ion 58.00 (57.70 to 58.70): VU026969.D (-1939) (-)

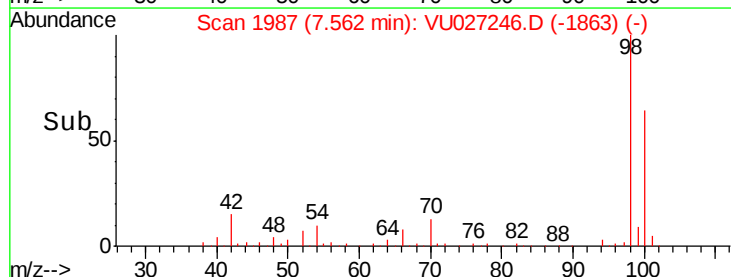
1500

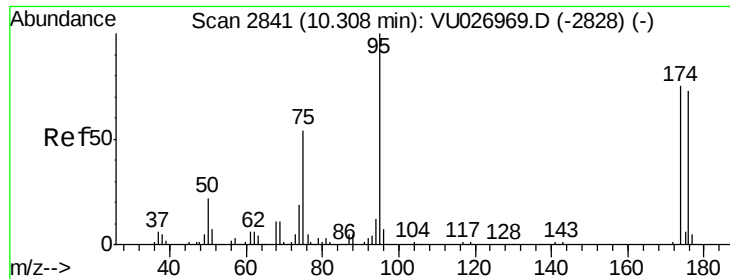
1000

500

0

Time-->





#62

4-Bromofluorobenzene

Concen: 45.939 ug/l

RT: 10.31 min Scan# 2842

Delta R.T. 0.00 min

Lab File: VU027246.D

Acq: 28 Sep 2018 00:06

Instrument :

MSVOA_U

ClientSampleId :

T11-MW-3-8.0-092018

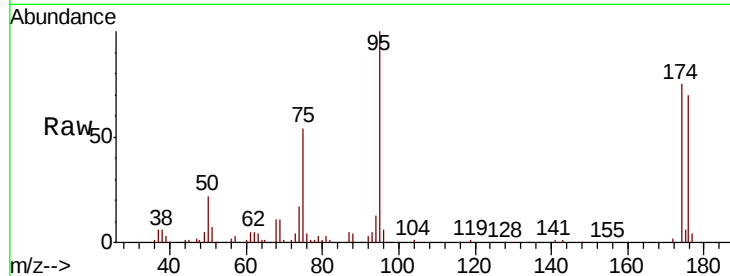
Tot Ion: 95 Resp: 79542

Ion Ratio Lower Upper

95 100

174 75.5 0.0 150.2

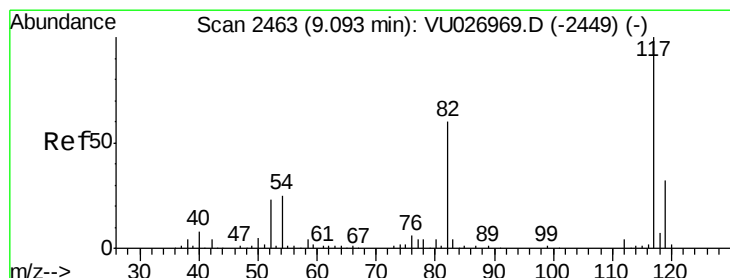
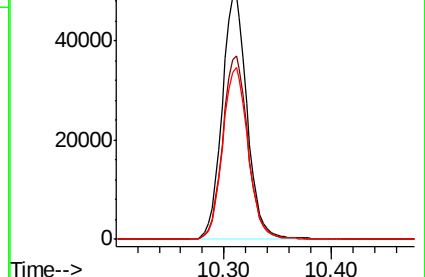
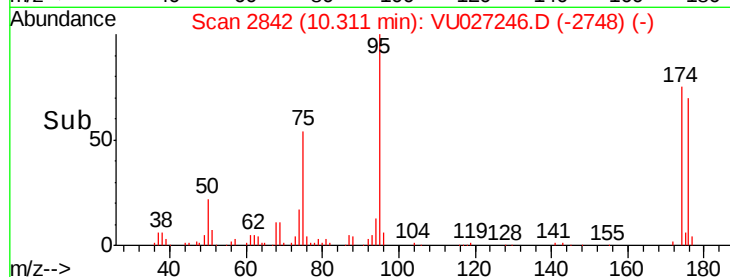
176 71.4 0.0 145.2



Abundance Ion 94.90 (94.60 to 95.60): VU026969.D (-2828) (-)

Ion 173.80 (173.50 to 174.50): VU026969.D (-2828) (-)

Ion 175.80 (175.50 to 176.50): VU026969.D (-2828) (-)



#63

Chlorobenzene-d5

Concen: 50.000 ug/l

RT: 9.09 min Scan# 2463

Delta R.T. 0.00 min

Lab File: VU027246.D

Acq: 28 Sep 2018 00:06

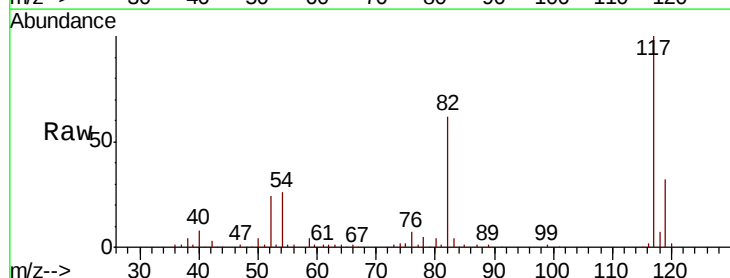
Tgt Ion: 117 Resp: 150295

Ion Ratio Lower Upper

117 100

82 61.7 48.0 72.0

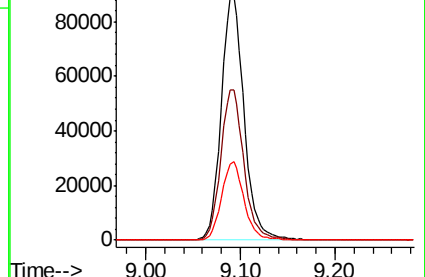
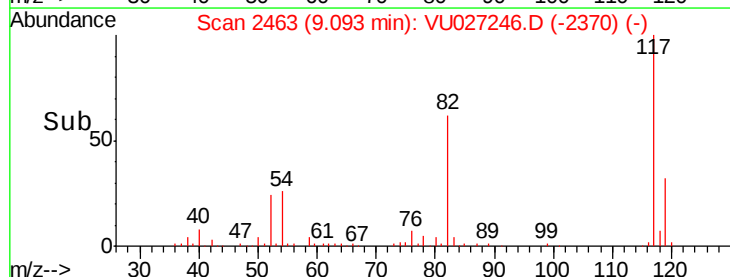
119 32.0 25.8 38.8

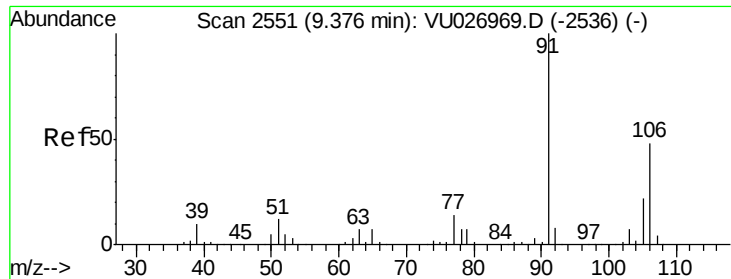


Abundance Ion 116.90 (116.60 to 117.60): VU026969.D (-2449) (-)

Ion 82.00 (81.70 to 82.70): VU026969.D (-2449) (-)

Ion 118.90 (118.60 to 119.60): VU026969.D (-2449) (-)





#68

m/p-Xvlenes

Concen: 1.752 ug/l

RT: 9.39 min Scan# 2554

Delta R.T. 0.01 min

Lab File: VU027246.D

Acq: 28 Sep 2018 00:06

Instrument :

MSVOA_U

ClientSampleId :

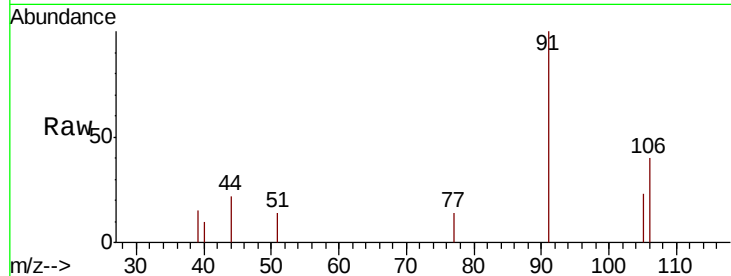
T11-MW-3-8.0-092018

Tot Ion:106 Resp: 677

Ion Ratio Lower Upper

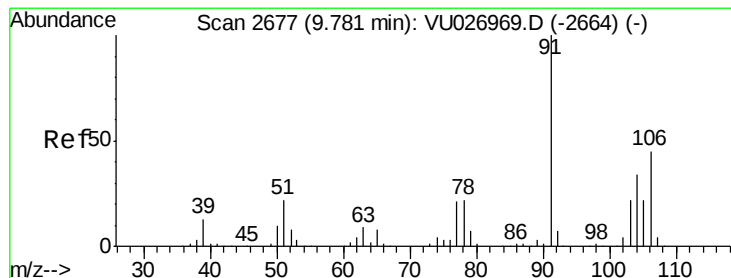
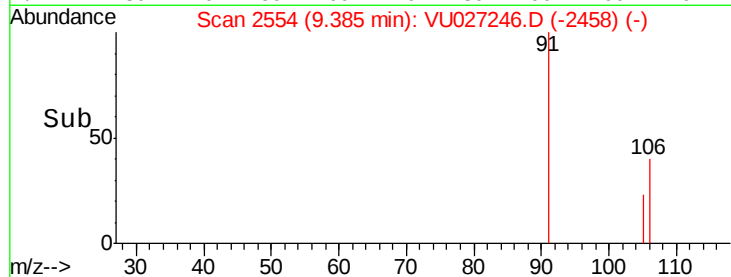
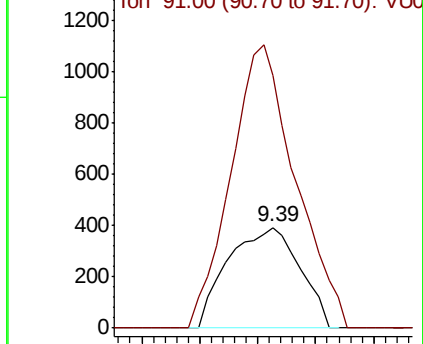
106 100

91 252.7 166.5 249.7#



Abundance Ion 106.00 (105.70 to 106.70): V

Ion 91.00 (90.70 to 91.70): VU0



#69

o-Xylene

Concen: 0.435 ug/l

RT: 9.79 min Scan# 2679

Delta R.T. 0.01 min

Lab File: VU027246.D

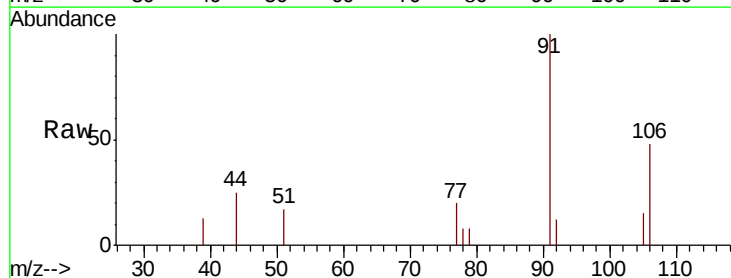
Acq: 28 Sep 2018 00:06

Tgt Ion:106 Resp: 1009

Ion Ratio Lower Upper

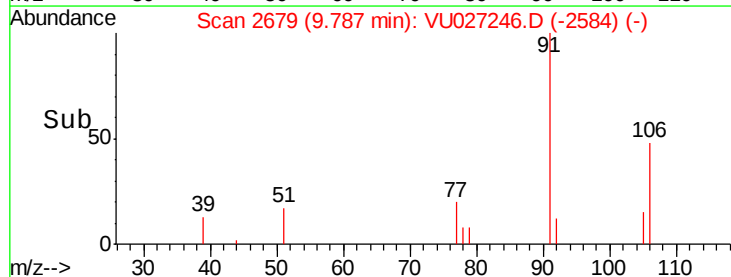
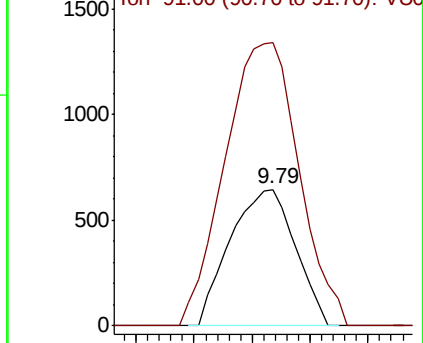
106 100

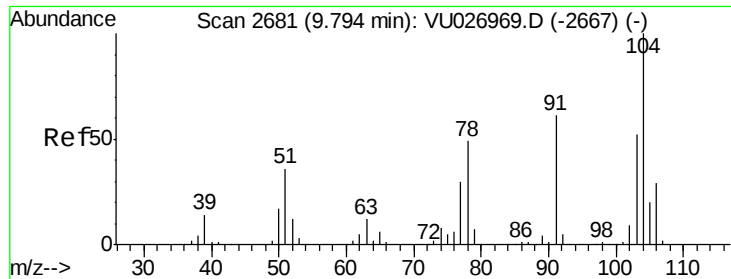
91 235.8 110.2 330.6



Abundance Ion 106.00 (105.70 to 106.70): V

Ion 91.00 (90.70 to 91.70): VU0

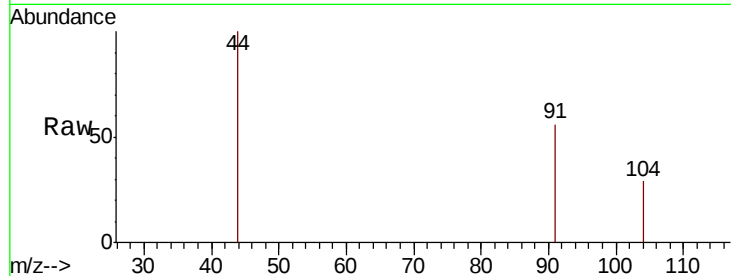




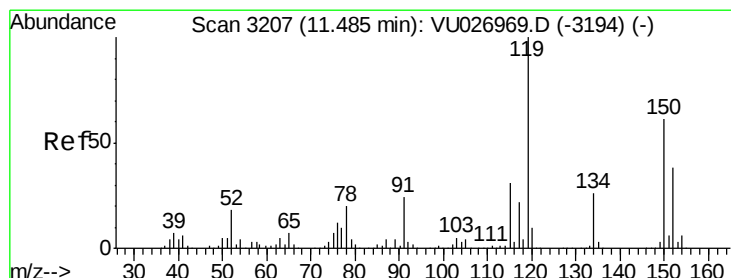
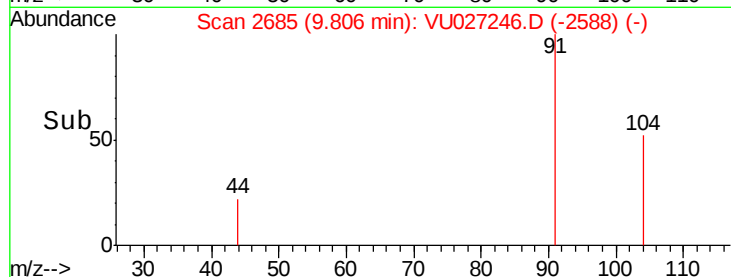
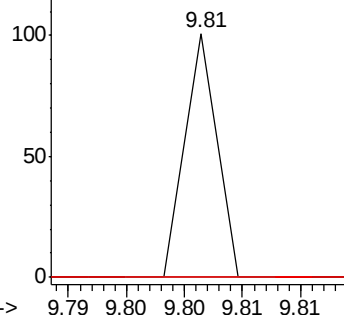
#70
Stvrene
Concen: 1.814 ug/l
RT: 9.81 min Scan# 2685
Delta R.T. 0.01 min
Lab File: VU027246.D
Acq: 28 Sep 2018 00:06

Instrument :
MSVOA_U
ClientSampleId :
T11-MW-3-8.0-092018

Tot Ion:104 Resp: 19
Ion Ratio Lower Upper
104 100
78 0.0 43.0 64.4#
103 0.0 44.1 66.1#

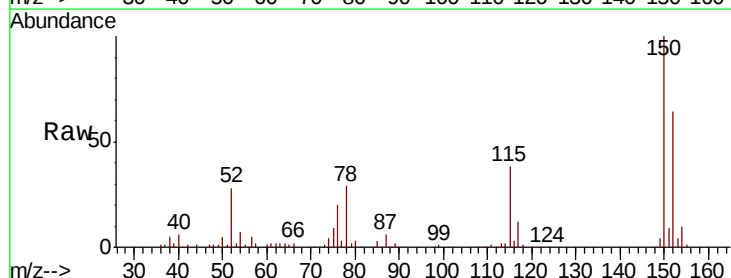


Abundance Ion 104.00 (103.70 to 104.70): V
Ion 78.00 (77.70 to 78.70): VU0
Ion 103.00 (102.70 to 103.70): V

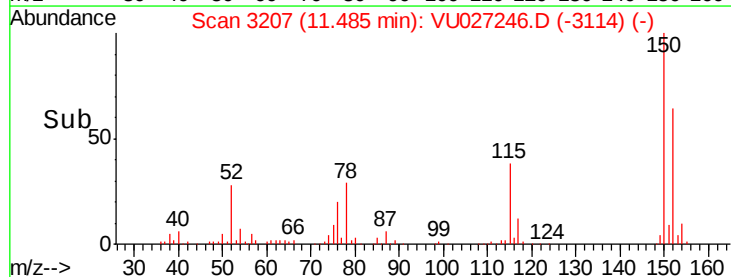
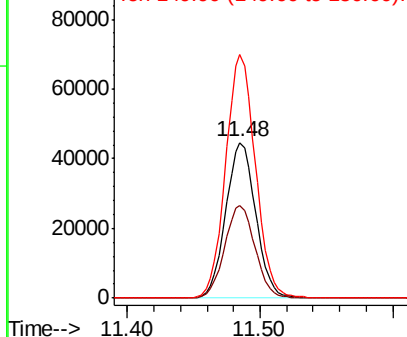


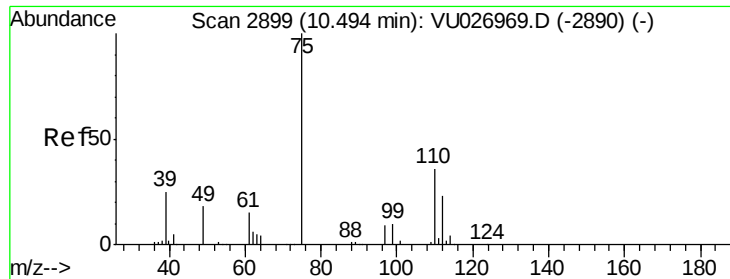
#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 11.48 min Scan# 3207
Delta R.T. -0.00 min
Lab File: VU027246.D
Acq: 28 Sep 2018 00:06

Tgt Ion:152 Resp: 70059
Ion Ratio Lower Upper
152 100
115 60.5 44.9 134.5
150 155.3 0.0 355.8



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: 20.392 ug/l

RT: 10.31 min Scan# 2841

Delta R.T. -0.19 min

Lab File: VU027246.D

Acq: 28 Sep 2018 00:06

Instrument :

MSVOA_U

ClientSampleId :

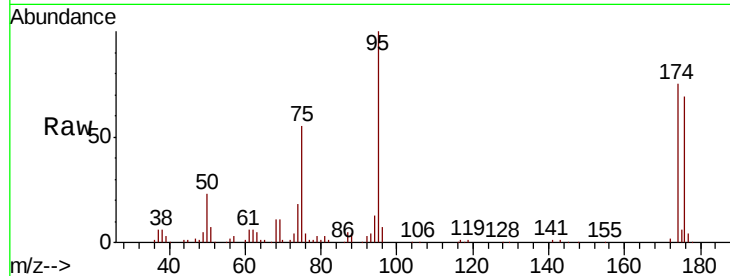
T11-MW-3-8.0-092018

Tot Ion: 75 Resp: 43402

Ion Ratio Lower Upper

75 100

77 0.6 20.9 62.8#



Abundance Ion 74.90 (74.60 to 75.60): VU0

Ion 77.00 (76.70 to 77.70): VU0

10.31

25000

20000

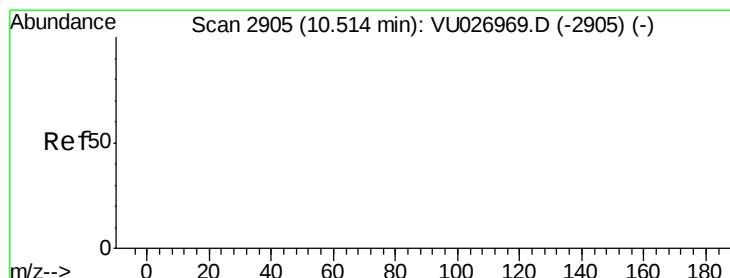
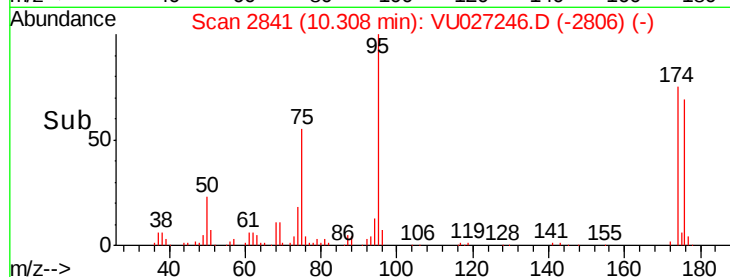
15000

10000

5000

0

Time-->



#81

trans-1,4-Dichloro-2-butene

Concen: 65.258 ug/l

RT: 10.31 min Scan# 2841

Delta R.T. -0.21 min

Lab File: VU027246.D

Acq: 28 Sep 2018 00:06

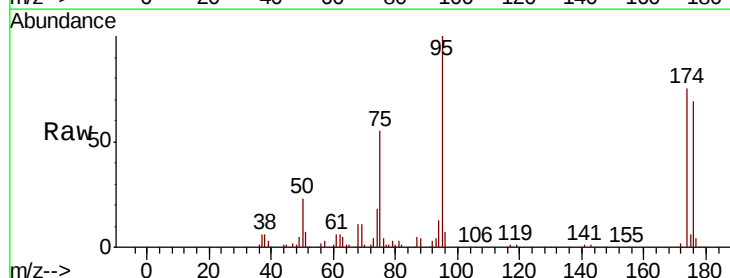
Tgt Ion: 75 Resp: 43402

Ion Ratio Lower Upper

75 100

53 0.0 0.0 0.0

89 0.0 0.0 0.0



Abundance Ion 74.90 (74.60 to 75.60): VU0

Ion 53.00 (52.70 to 53.70): VU0

Ion 88.90 (88.60 to 89.60): VU0

10.31

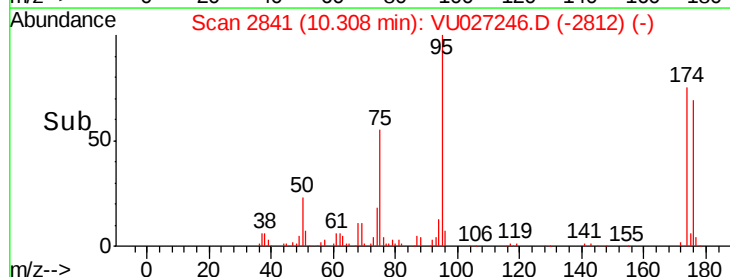
30000

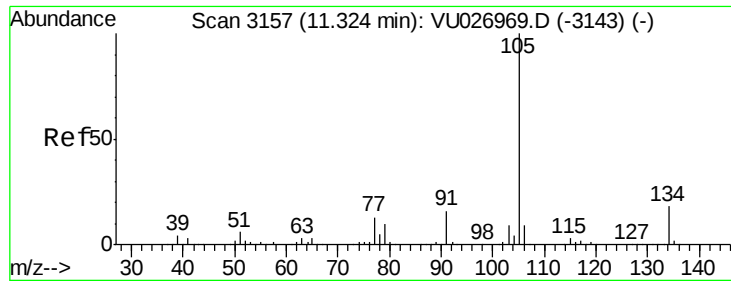
20000

10000

0

Time-->





#85

sec-Butylbenzene

Concen: 0.229 ug/l

RT: 11.33 min Scan# 3158

Delta R.T. 0.00 min

Lab File: VU027246.D

Acq: 28 Sep 2018 00:06

Instrument :

MSVOA_U

ClientSampleId :

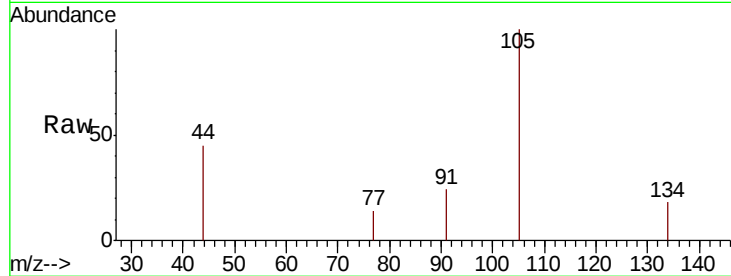
T11-MW-3-8.0-092018

Tot Ion:105 Resp: 1217

Ion Ratio Lower Upper

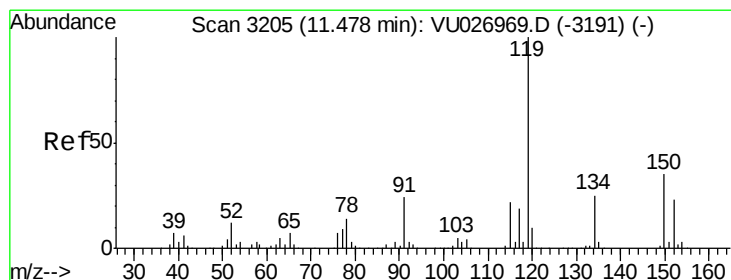
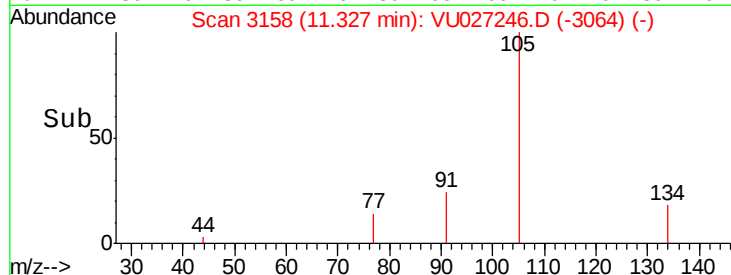
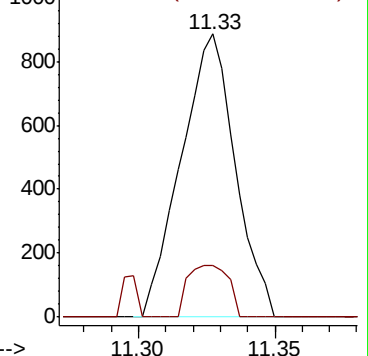
105 100

134 13.6 9.4 28.2



Abundance Ion 105.00 (104.70 to 105.70): V

Ion 134.00 (133.70 to 134.70): V



#86

p-Isopropyltoluene

Concen: 0.947 ug/l

RT: 11.57 min Scan# 3235

Delta R.T. 0.10 min

Lab File: VU027246.D

Acq: 28 Sep 2018 00:06

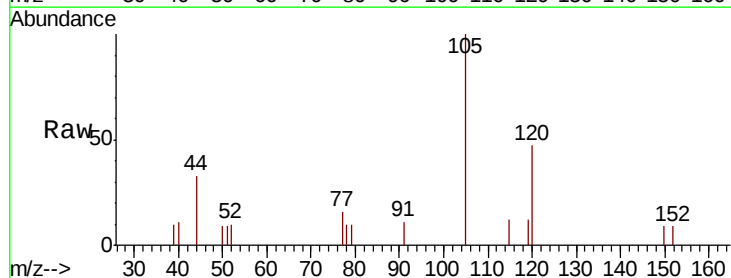
Tgt Ion:119 Resp: 99

Ion Ratio Lower Upper

119 100

134 0.0 12.8 38.3#

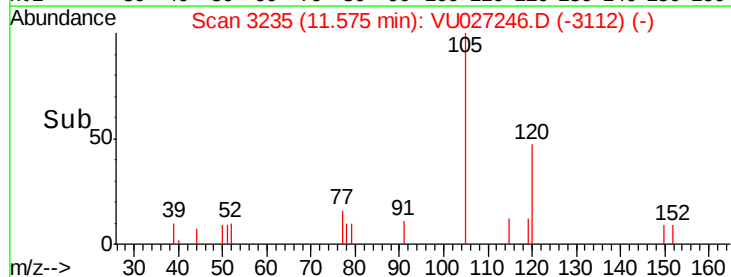
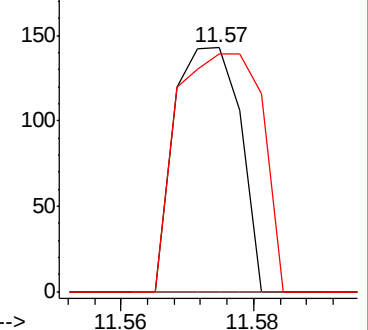
91 125.3 12.3 36.8#

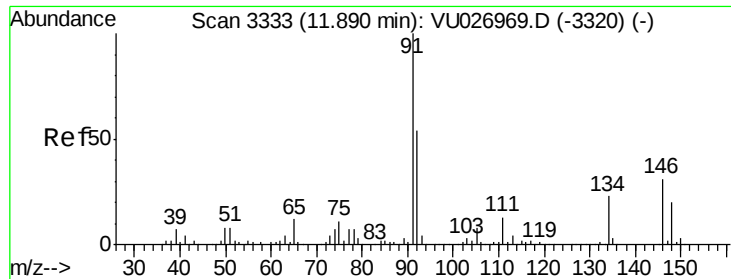


Abundance Ion 119.00 (118.70 to 119.70): V

Ion 134.00 (133.70 to 134.70): V

Ion 91.00 (90.70 to 91.70): VU0





#89

n-Butylbenzene

Concen: 2.495 ug/l

RT: 11.87 min Scan# 3326

Delta R.T. -0.02 min

Lab File: VU027246.D

Acq: 28 Sep 2018 00:06

Instrument :

MSVOA_U

ClientSampleId :

T11-MW-3-8.0-092018

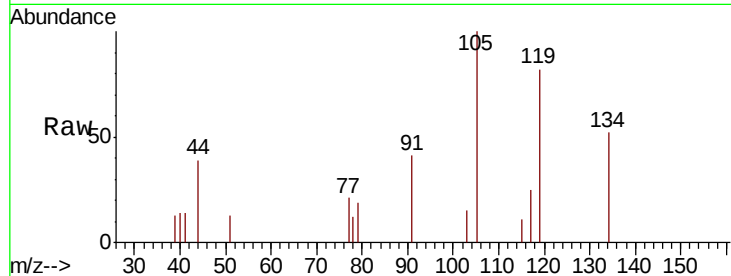
Tot Ion: 91 Resp: 520

Ion Ratio Lower Upper

91 100

92 0.0 27.1 81.2#

134 149.8 11.7 35.0#

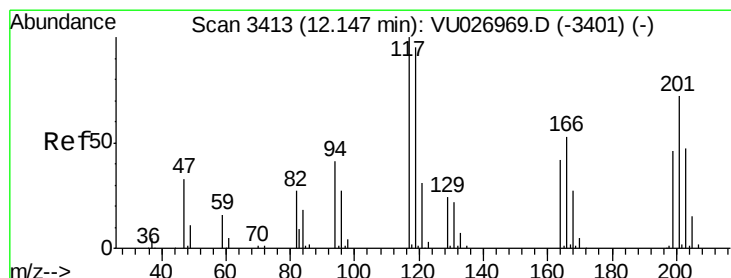
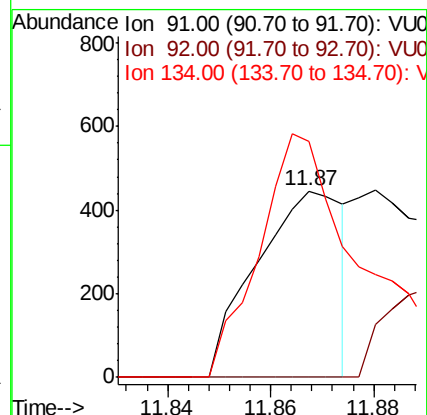
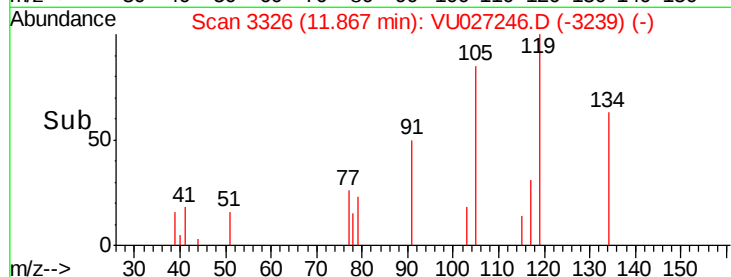


Abundance Ion 91.00 (90.70 to 91.70): VU026969.D (-3320) (-)

Ion 92.00 (91.70 to 92.70): VU026969.D (-3320) (-)

Ion 134.00 (133.70 to 134.70): VU026969.D (-3320) (-)

Time-->



#90

Hexachloroethane

Concen: 0.761 ug/l

RT: 12.29 min Scan# 3457

Delta R.T. 0.14 min

Lab File: VU027246.D

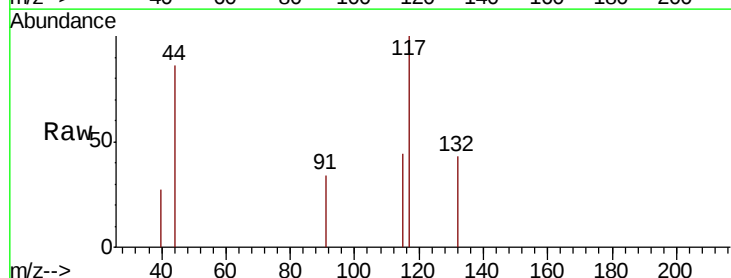
Acq: 28 Sep 2018 00:06

Tgt Ion: 117 Resp: 735

Ion Ratio Lower Upper

117 100

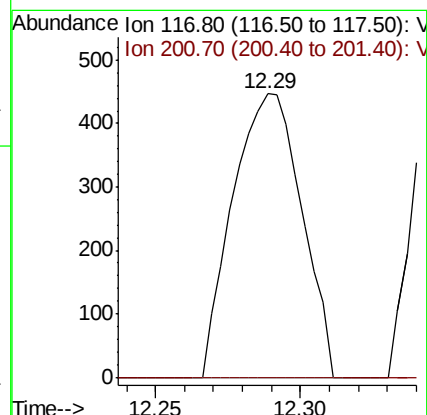
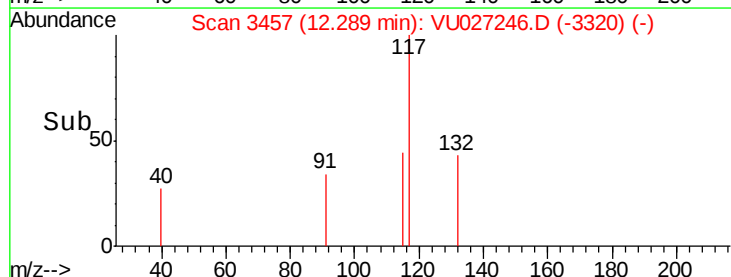
201 0.0 36.8 110.3#

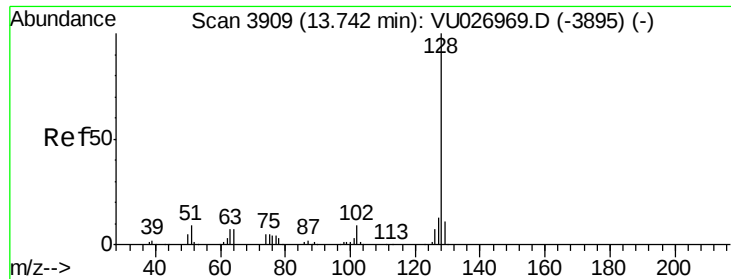


Abundance Ion 116.80 (116.50 to 117.50): VU026969.D (-3401) (-)

Ion 200.70 (200.40 to 201.40): VU026969.D (-3401) (-)

Time-->





#95
Naphthalene
Concen: 8.579 ug/l
RT: 13.75 min Scan# 3910
Delta R.T. 0.00 min
Lab File: VU027246.D
Acq: 28 Sep 2018 00:06

Instrument :
MSVOA_U
ClientSampleId :
T11-MW-3-8.0-092018

Tot Ion	Ratio	Lower	Upper
128	100		
127	14.2	10.6	15.8
129	11.2	8.6	12.8

