

Data Path : Z:\VOASRV\HPCHEM1\MSVOA U\DATA\VU092818\
 Data File : VU027233.D
 Acq On : 27 Sep 2018 19:03
 Operator : MD/SY
 Sample : J5072-03
 Misc : 5.0mL/MSVOA U/WATER
 ALS Vial : 7 Sample Multiplier: 1

Instrument :
 MSVOA_U
 ClientSampleId :
 MH-4

Quant Time: Sep 28 03:40:22 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	92980	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	5.89	114	156793	50.00	ug/l	0.00
63) Chlorobenzene-d5	9.09	117	149171	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	11.48	152	67540	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	99593	53.22	ug/l	0.00
Spiked Amount			Recovery	=	106.44%	
35) Dibromofluoromethane	4.89	113	67353	49.56	ug/l	0.00
Spiked Amount			Recovery	=	99.12%	
50) Toluene-d8	7.57	98	249001	48.07	ug/l	0.00
Spiked Amount			Recovery	=	96.14%	
62) 4-Bromofluorobenzene	10.31	95	78251	44.03	ug/l	0.00
Spiked Amount			Recovery	=	88.06%	

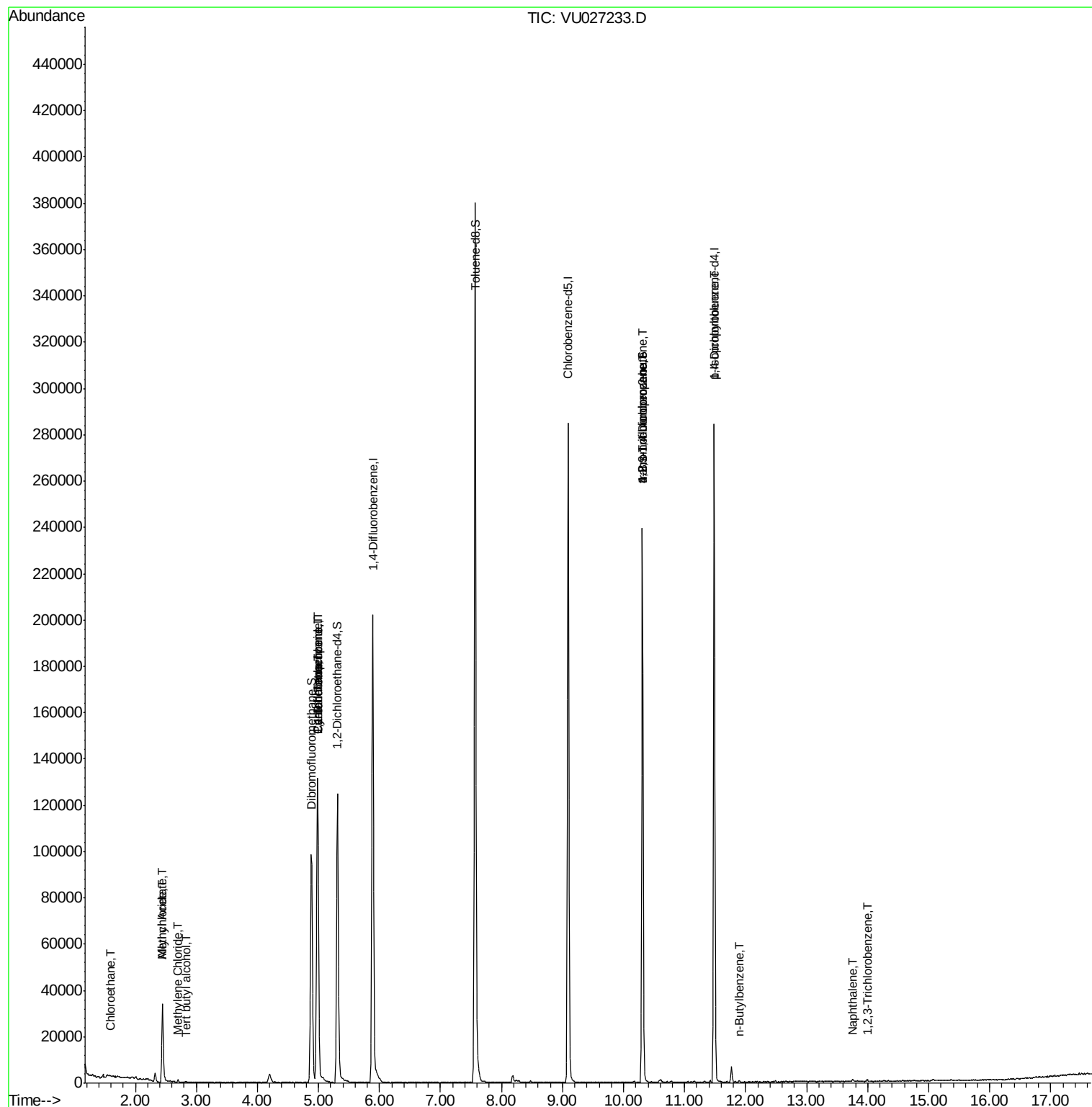
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
6) Chloroethane	1.58	64	1044	0.836	ug/l #	43
11) Tert butyl alcohol	2.84	59	369	0.860	ug/l #	72
14) Allyl chloride	2.45	41	3512	1.348	ug/l #	71
16) Acetone	2.32	43	3873	Below Cal		95
18) Methyl Acetate	2.44	43	8655	3.249	ug/l #	55
20) Methylene Chloride	2.70	84	357	0.213	ug/l #	95
31) Cyclohexane	4.98	56	2265	0.240	ug/l #	1
36) 1,1-Dichloropropene	4.99	75	8723	4.169	ug/l #	50
38) Carbon Tetrachloride	4.99	117	9278	4.659	ug/l #	18
76) 1,2,3-Trichloropropane	10.31	75	42430	20.679	ug/l #	36
81) trans-1,4-Dichloro-2-buten	10.31	75	42430	66.176	ug/l #	100
86) p-Isopropyltoluene	11.48	119	454	1.020	ug/l #	56
89) n-Butylbenzene	11.89	91	398	2.474	ug/l #	79
95) Naphthalene	13.75	128	1465	1.942	ug/l #	73
96) 1,2,3-Trichlorobenzene	13.99	180	499	0.325	ug/l #	74

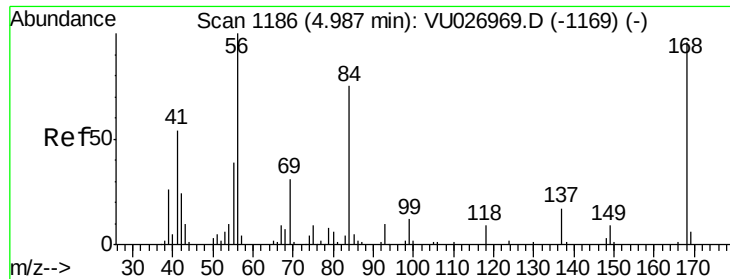
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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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: VU027233.D

Acq: 27 Sep 2018 19:03

Instrument :

MSVOA_U

ClientSampleId :

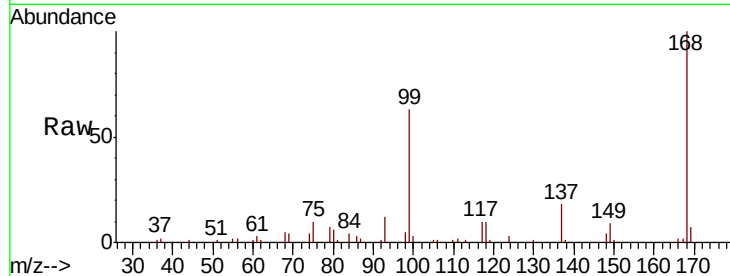
MH-4

Tot Ion:168 Resp: 92980

Ion Ratio Lower Upper

168 100

99 62.9 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) (-)

4.99

40000

30000

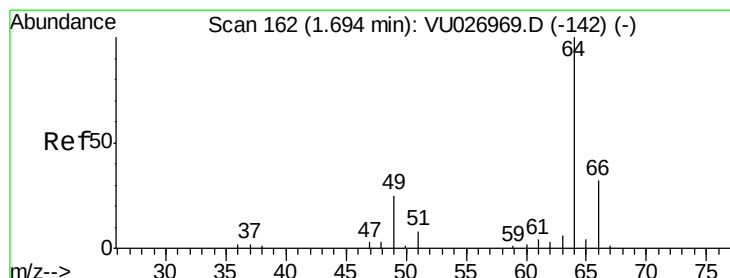
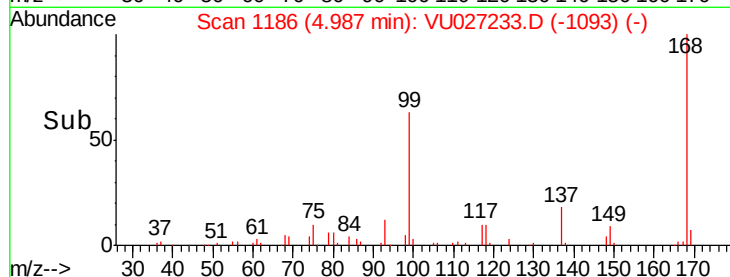
20000

10000

0

4.90 4.95 5.00 5.05

Time-->



#6

Chloroethane

Concen: 0.836 ug/l

RT: 1.58 min Scan# 127

Delta R.T. -0.11 min

Lab File: VU027233.D

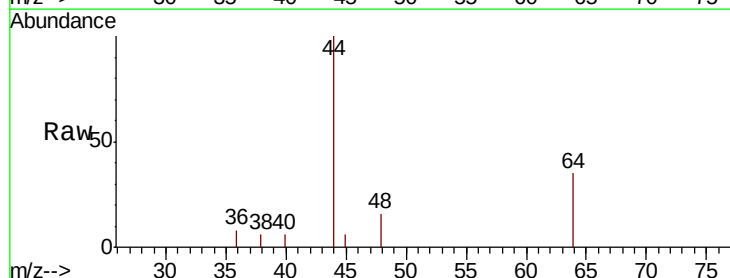
Acq: 27 Sep 2018 19:03

Tgt Ion: 64 Resp: 1044

Ion Ratio Lower Upper

64 100

66 0.0 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) (-)

1.58

800

600

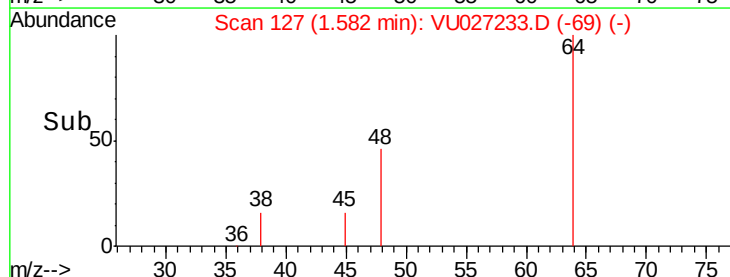
400

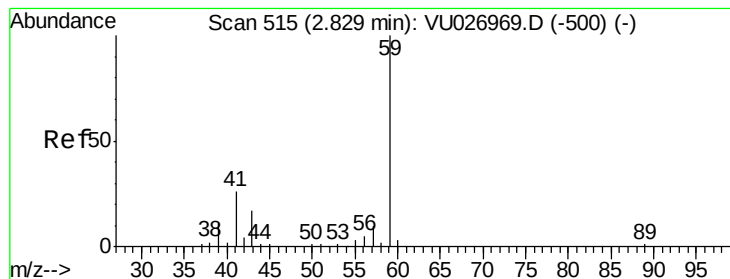
200

0

1.50 1.55 1.60

Time-->



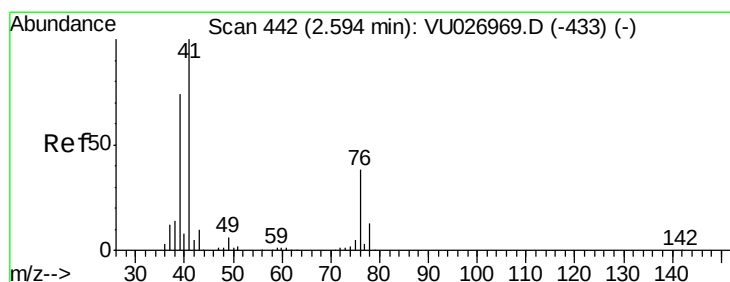
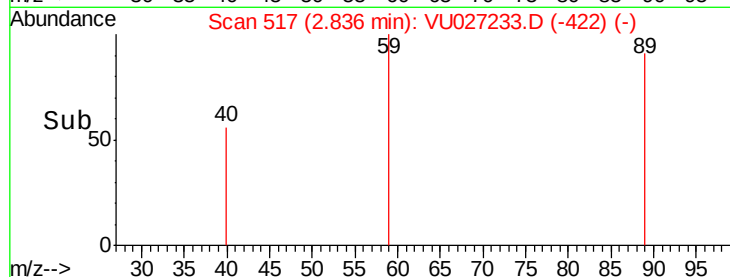
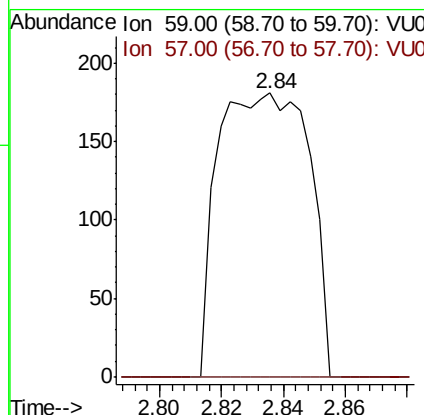
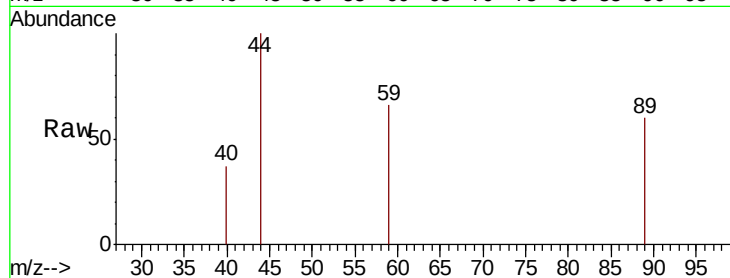


#11

Tert butyl alcohol
 Concen: 0.860 ug/l
 RT: 2.84 min Scan# 517
 Delta R.T. 0.01 min
 Lab File: VU027233.D
 Acq: 27 Sep 2018 19:03

Instrument :
 MSVOA_U
 ClientSampled :
 MH-4

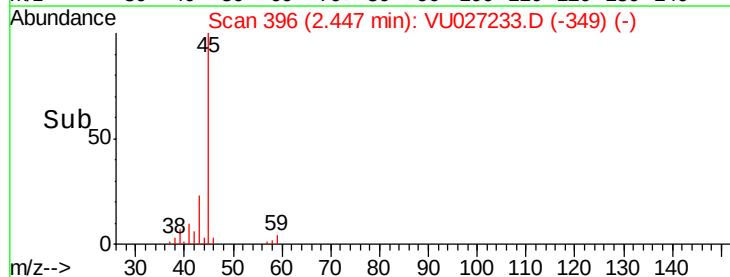
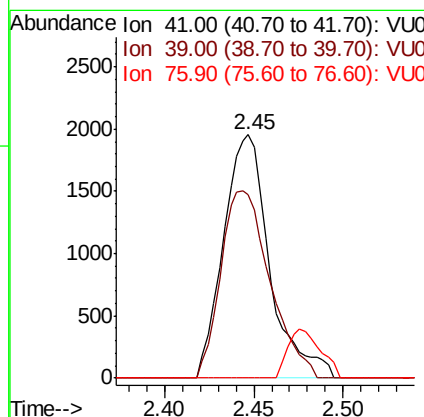
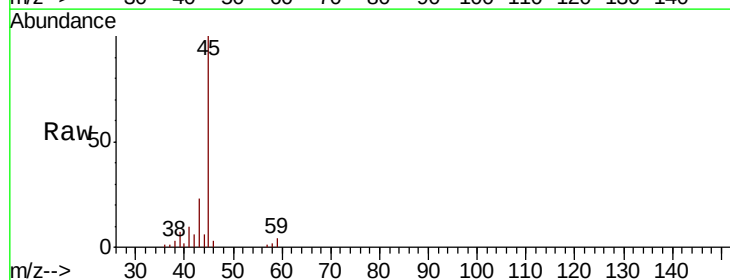
Tot Ion: 59 Resp: 369
 Ion Ratio Lower Upper
 59 100
 57 0.0 8.5 12.7#

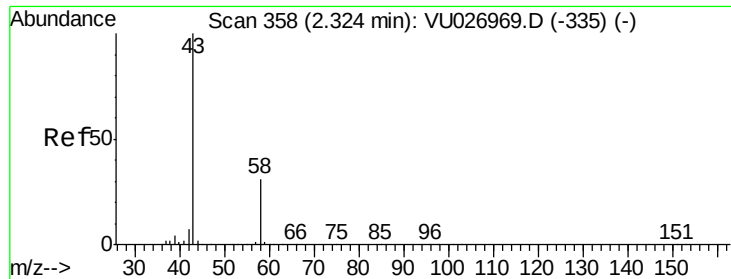


#14

Allyl chloride
 Concen: 1.348 ug/l
 RT: 2.45 min Scan# 396
 Delta R.T. -0.15 min
 Lab File: VU027233.D
 Acq: 27 Sep 2018 19:03

Tgt Ion: 41 Resp: 3512
 Ion Ratio Lower Upper
 41 100
 39 82.0 55.7 83.5
 76 0.0 26.5 39.7#





#16

Acetone

Concen: Below Cal

RT: 2.32 min Scan# 358

Delta R.T. 0.00 min

Lab File: VU027233.D

Acq: 27 Sep 2018 19:03

Instrument :

MSVOA_U

ClientSampled :

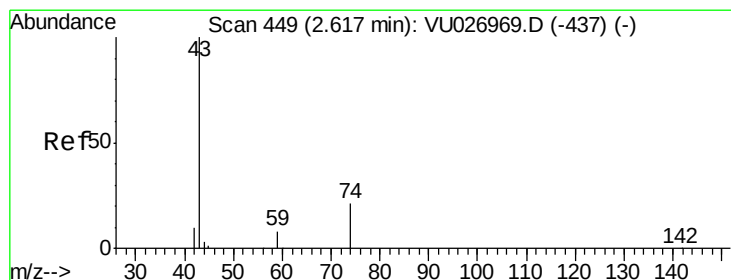
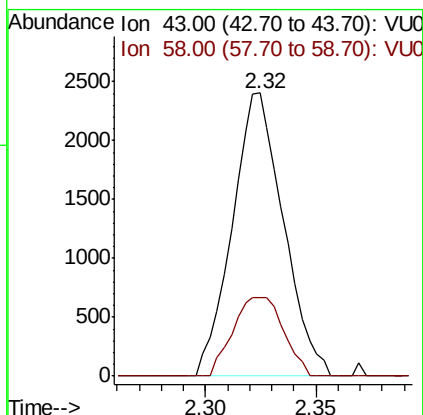
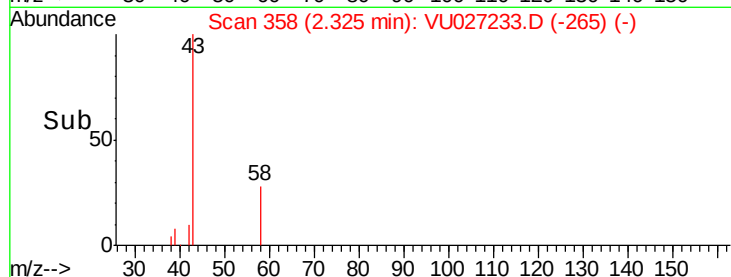
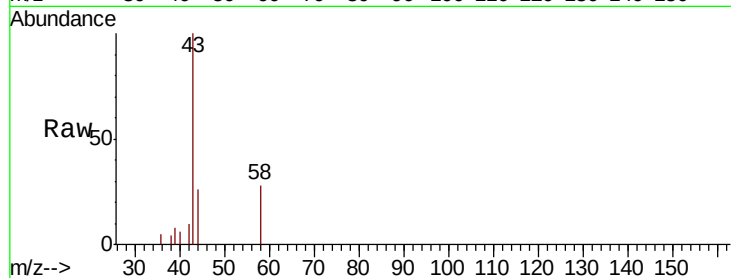
MH-4

Tot Ion: 43 Resp: 3873

Ion Ratio Lower Upper

43 100

58 28.0 24.6 36.8



#18

Methyl Acetate

Concen: 3.249 ug/l

RT: 2.44 min Scan# 395

Delta R.T. -0.17 min

Lab File: VU027233.D

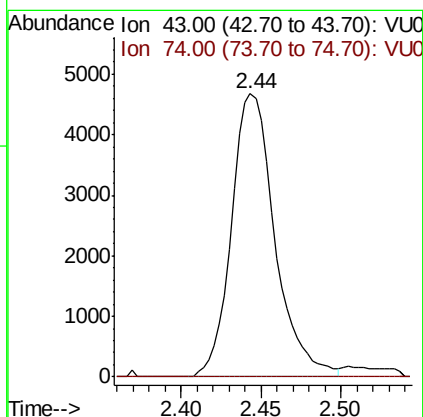
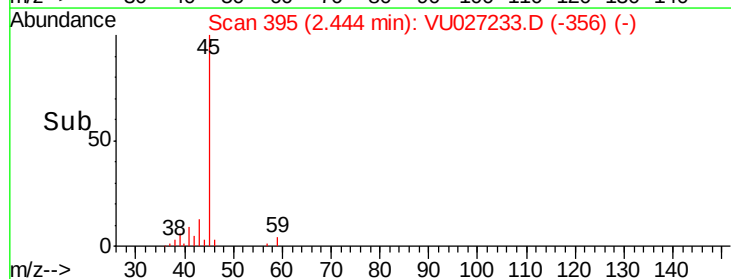
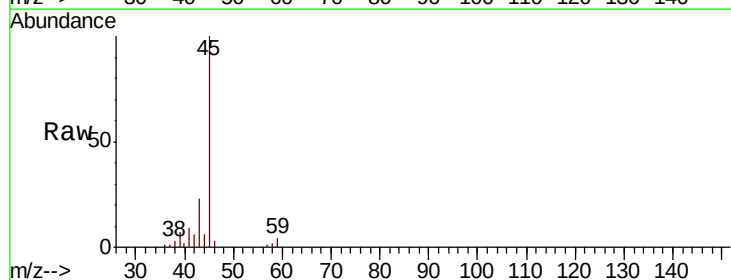
Acq: 27 Sep 2018 19:03

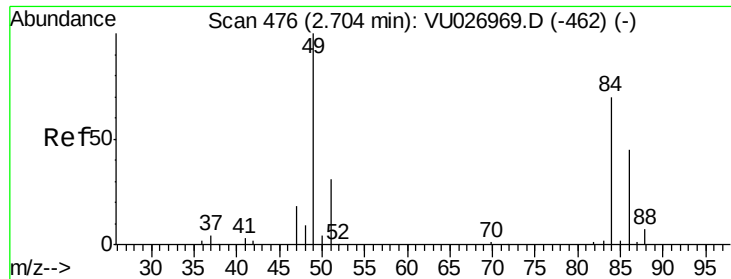
Tgt Ion: 43 Resp: 8655

Ion Ratio Lower Upper

43 100

74 0.0 16.6 25.0#

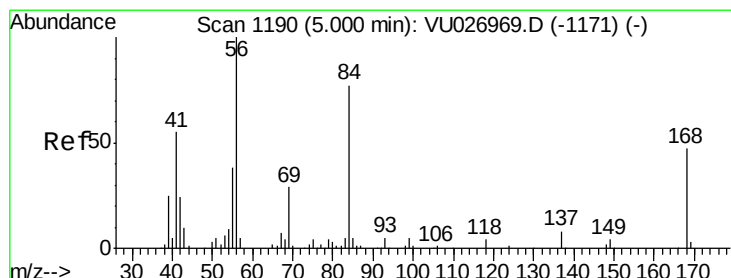
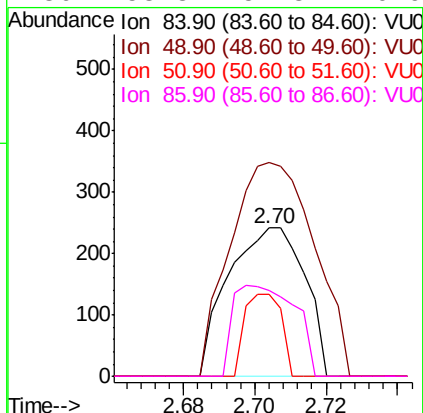
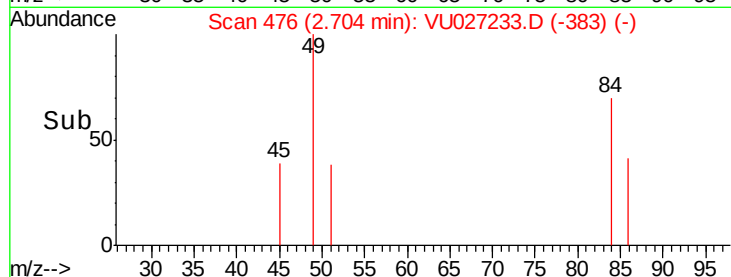
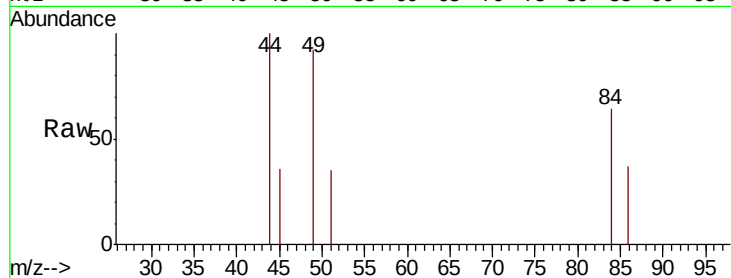




#20
Methvlene Chloride
Concen: 0.213 ug/l
RT: 2.70 min Scan# 476
Delta R.T. 0.00 min
Lab File: VU027233.D
Acq: 27 Sep 2018 19:03

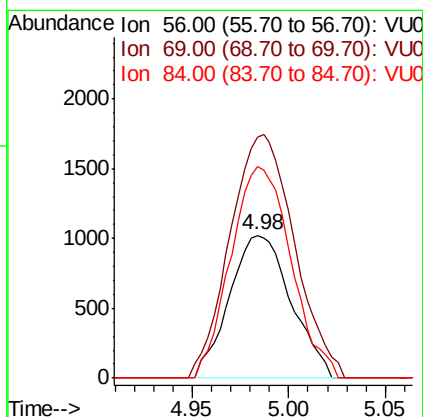
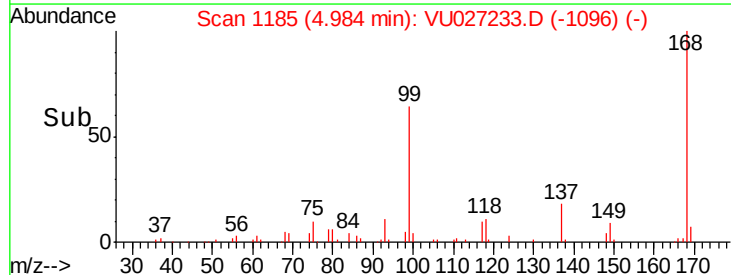
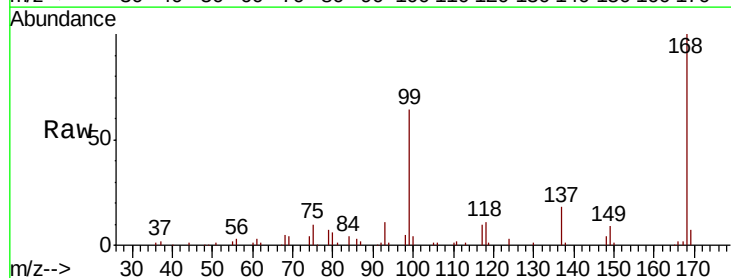
Instrument :
MSVOA_U
ClientSampled :
MH-4

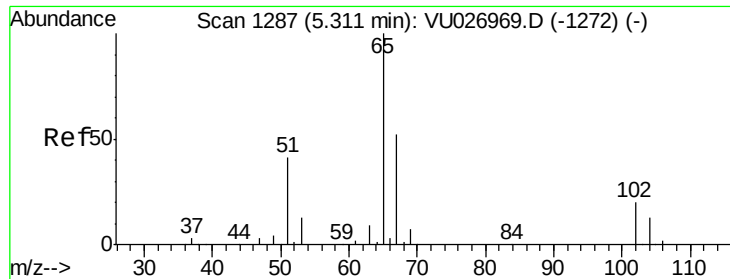
Tot Ion: 84 Resp: 357
Ion Ratio Lower Upper
84 100
49 143.8 114.9 172.3
51 55.0 35.8 53.8#
86 58.3 51.3 76.9



#31
Cyclohexane
Concen: 0.240 ug/l
RT: 4.98 min Scan# 1185
Delta R.T. -0.02 min
Lab File: VU027233.D
Acq: 27 Sep 2018 19:03

Tgt Ion: 56 Resp: 2265
Ion Ratio Lower Upper
56 100
69 168.9 23.0 34.4#
84 148.4 61.4 92.2#

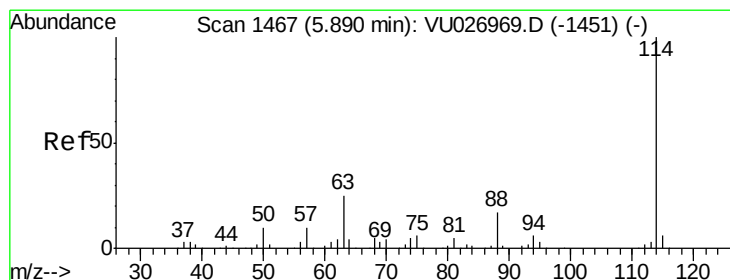
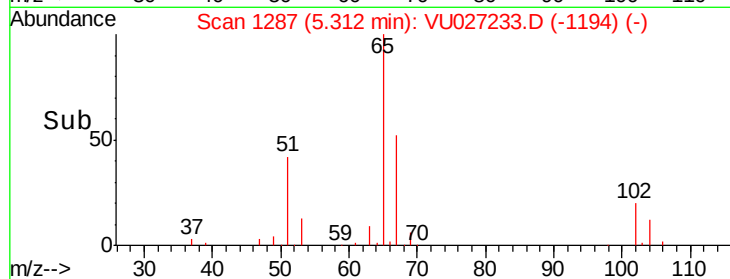
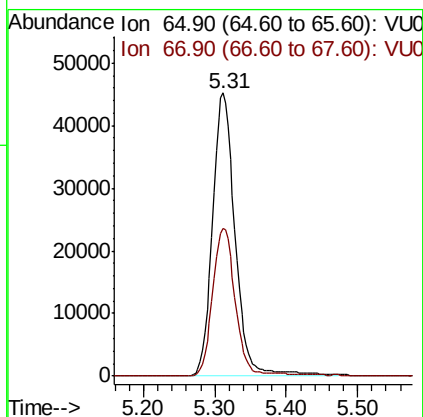
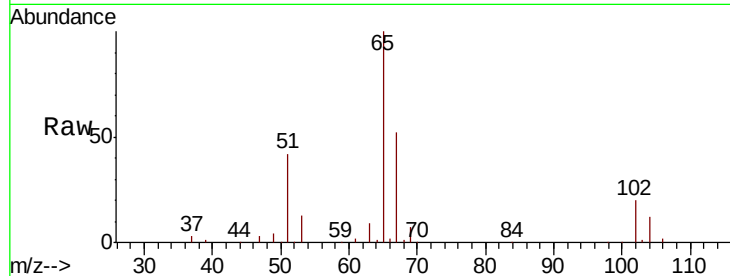




#33
 1,2-Dichloroethane-d4
 Concen: 53.219 ug/l
 RT: 5.31 min Scan# 1287
 Delta R.T. 0.00 min
 Lab File: VU027233.D
 Acq: 27 Sep 2018 19:03

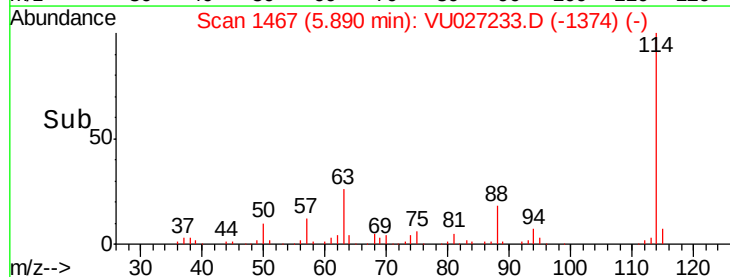
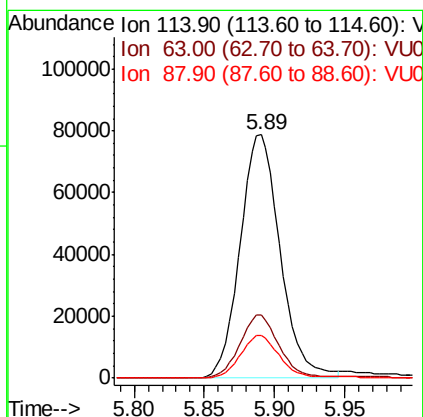
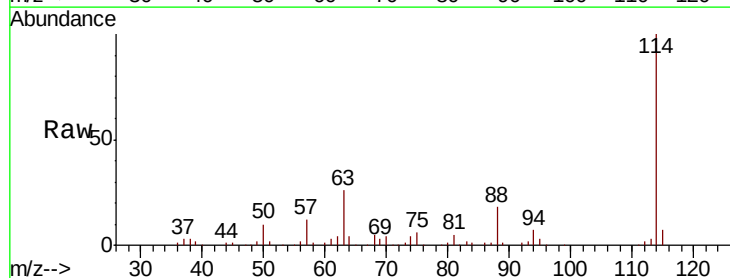
Instrument :
 MSVOA_U
 ClientSampled :
 MH-4

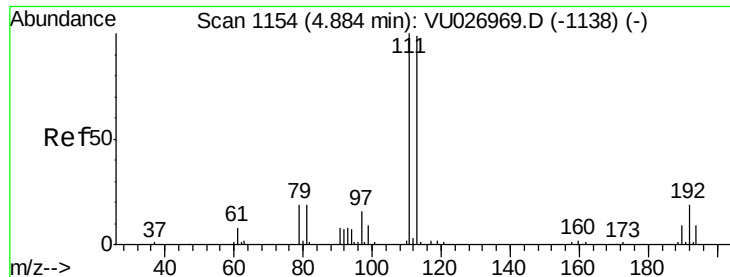
Tot Ion: 65 Resp: 99593
 Ion Ratio Lower Upper
 65 100
 67 51.7 0.0 105.6



#34
 1,4-Difluorobenzene
 Concen: 50.000 ug/l
 RT: 5.89 min Scan# 1467
 Delta R.T. 0.00 min
 Lab File: VU027233.D
 Acq: 27 Sep 2018 19:03

Tgt Ion: 114 Resp: 156793
 Ion Ratio Lower Upper
 114 100
 63 25.7 0.0 49.2
 88 17.6 0.0 33.8

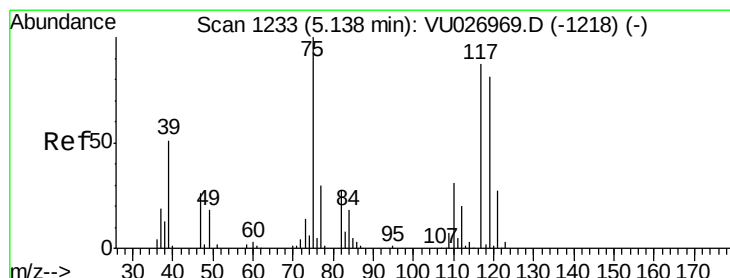
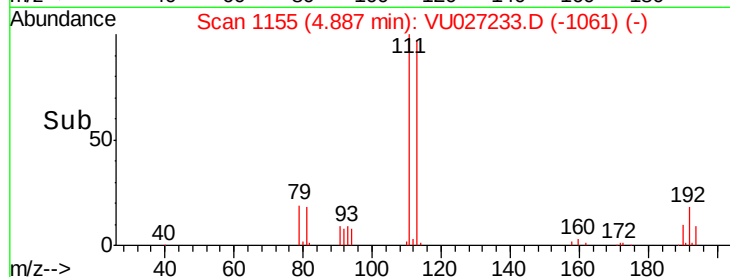
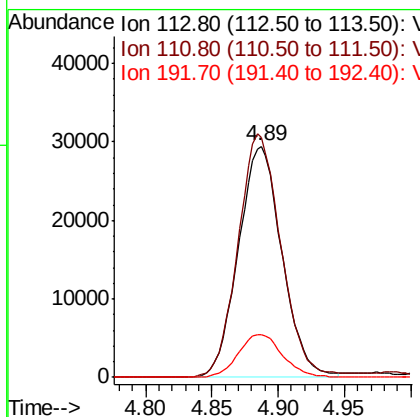
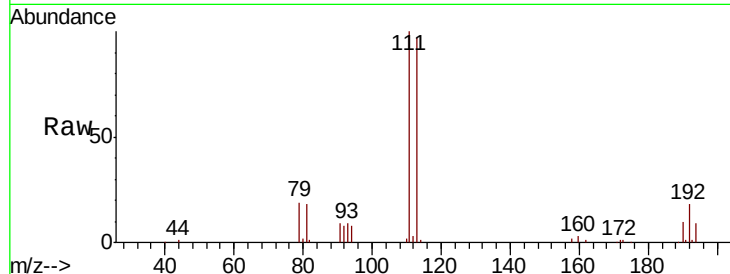




#35
 Dibromofluoromethane
 Concen: 49.558 ug/l
 RT: 4.89 min Scan# 1155
 Delta R.T. 0.00 min
 Lab File: VU027233.D
 Acq: 27 Sep 2018 19:03

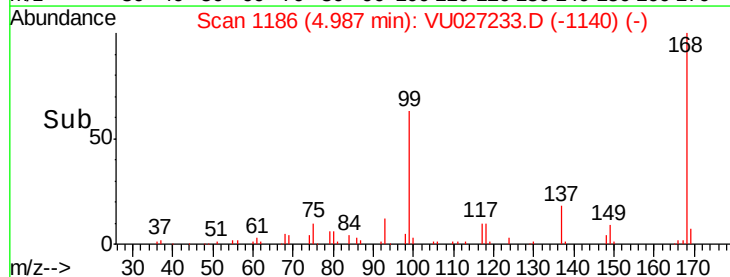
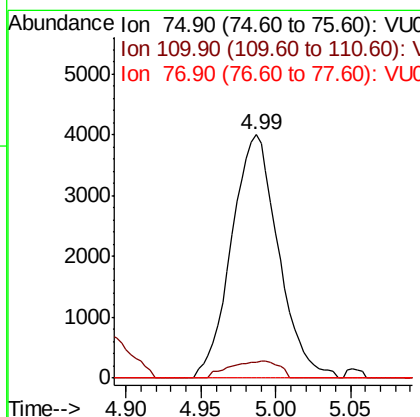
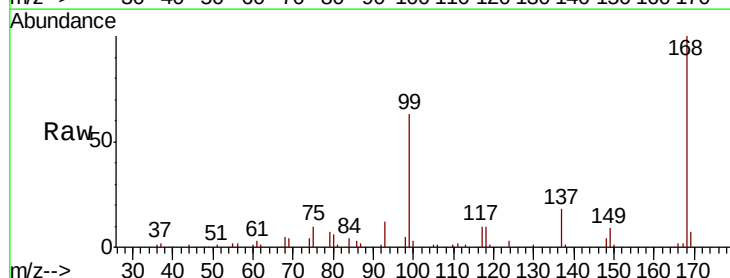
Instrument :
 MSVOA_U
 ClientSampleId :
 MH-4

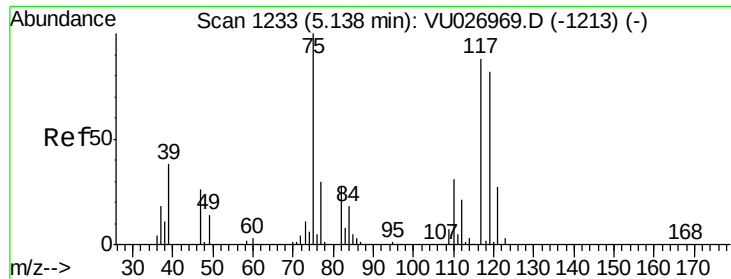
Tot Ion:113 Resp: 67353
 Ion Ratio Lower Upper
 113 100
 111 104.6 82.2 123.4
 192 18.8 15.2 22.8



#36
 1,1-Dichloropropene
 Concen: 4.169 ug/l
 RT: 4.99 min Scan# 1186
 Delta R.T. -0.15 min
 Lab File: VU027233.D
 Acq: 27 Sep 2018 19:03

Tgt Ion: 75 Resp: 8723
 Ion Ratio Lower Upper
 75 100
 110 7.3 16.1 48.2#
 77 0.0 24.6 36.8#

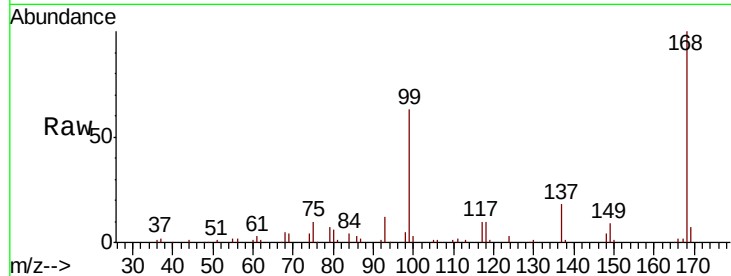




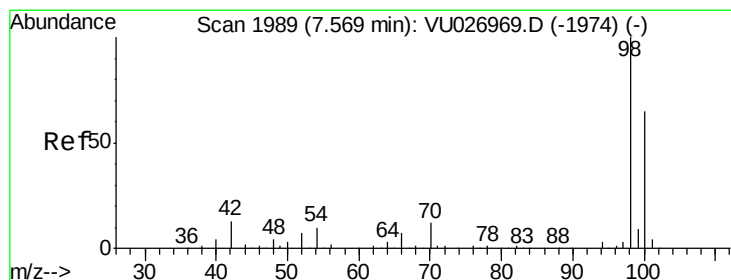
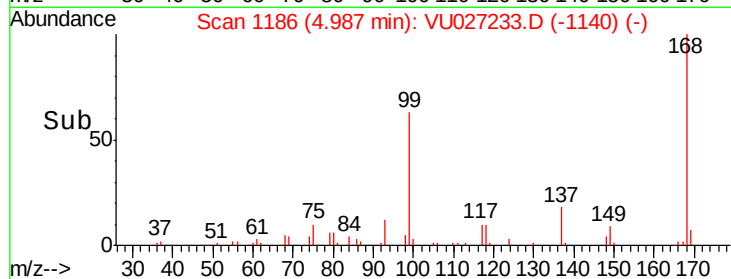
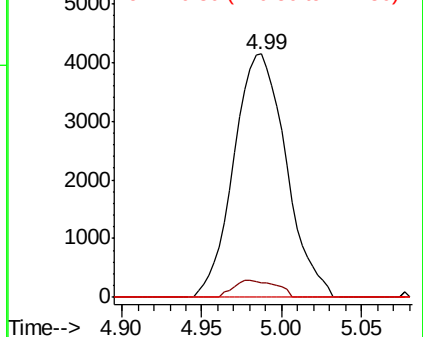
#38
Carbon Tetrachloride
Concen: 4.659 ug/l
RT: 4.99 min Scan# 1186
Delta R.T. -0.15 min
Lab File: VU027233.D
Acq: 27 Sep 2018 19:03

Instrument :
MSVOA_U
ClientSampled :
MH-4

Tot Ion:117 Resp: 9278
Ion Ratio Lower Upper
117 100
119 6.1 74.4 111.6#
121 0.0 24.2 36.4#

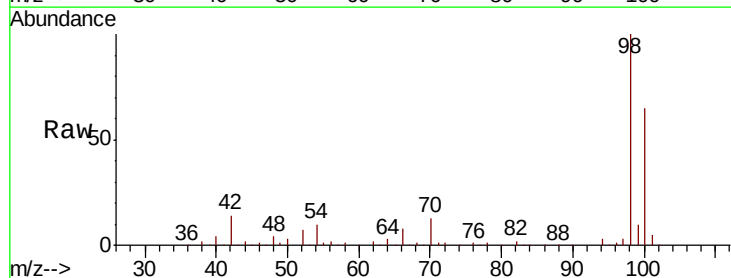


Abundance Ion 116.80 (116.50 to 117.50): V
Ion 118.80 (118.50 to 119.50): V
Ion 120.80 (120.50 to 121.50): V

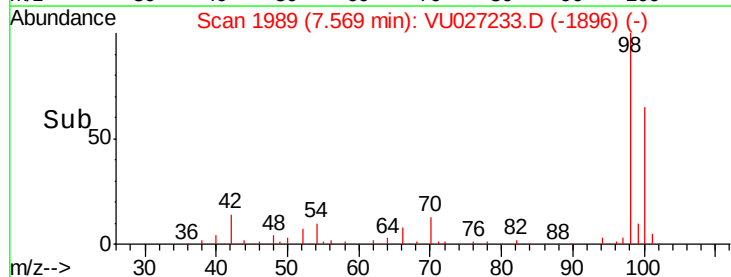
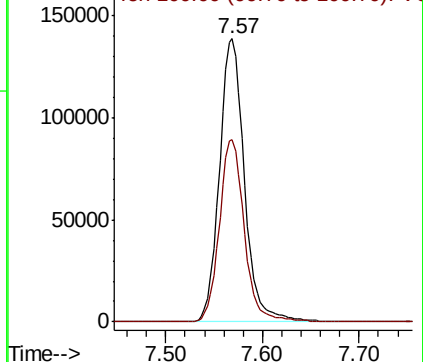


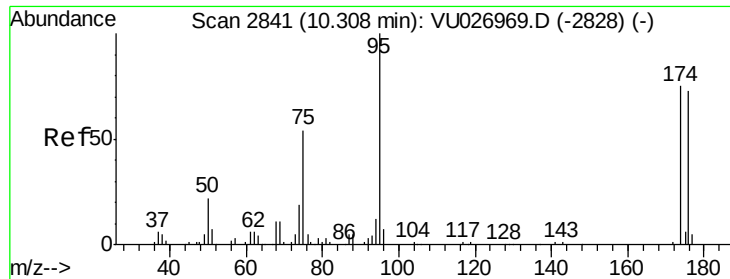
#50
Toluene-d8
Concen: 48.074 ug/l
RT: 7.57 min Scan# 1989
Delta R.T. 0.00 min
Lab File: VU027233.D
Acq: 27 Sep 2018 19:03

Tgt Ion: 98 Resp: 249001
Ion Ratio Lower Upper
98 100
100 64.3 52.1 78.1



Abundance Ion 98.00 (97.70 to 98.70): VU0
Ion 100.00 (99.70 to 100.70): VU





#62

4-Bromofluorobenzene

Concen: 44.029 ug/l

RT: 10.31 min Scan# 2842

Delta R.T. 0.00 min

Lab File: VU027233.D

Acq: 27 Sep 2018 19:03

Instrument :

MSVOA_U

ClientSampleId :

MH-4

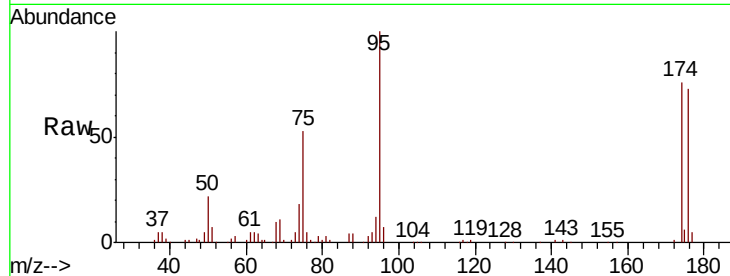
Tot Ion: 95 Resp: 78251

Ion Ratio Lower Upper

95 100

174 76.2 0.0 150.2

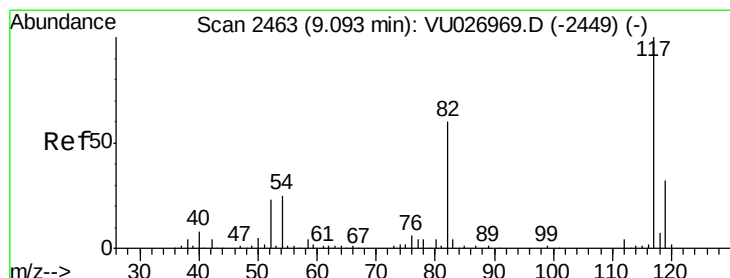
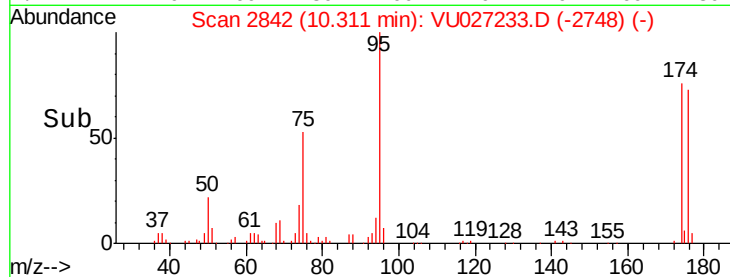
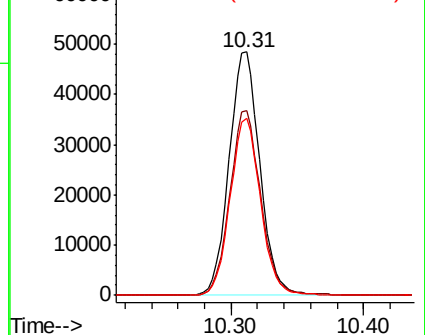
176 71.8 0.0 145.2



Abundance Ion 94.90 (94.60 to 95.60): VU0

Ion 173.80 (173.50 to 174.50): V

Ion 175.80 (175.50 to 176.50): V



#63

Chlorobenzene-d5

Concen: 50.000 ug/l

RT: 9.09 min Scan# 2463

Delta R.T. 0.00 min

Lab File: VU027233.D

Acq: 27 Sep 2018 19:03

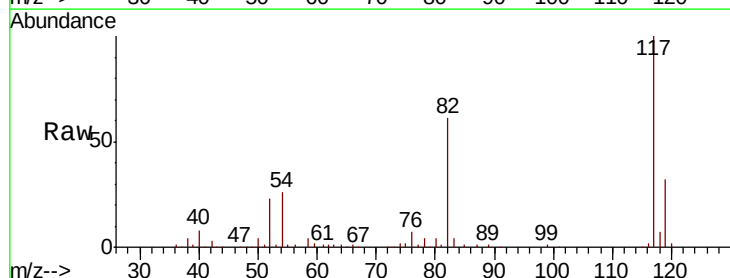
Tgt Ion: 117 Resp: 149171

Ion Ratio Lower Upper

117 100

82 61.2 48.0 72.0

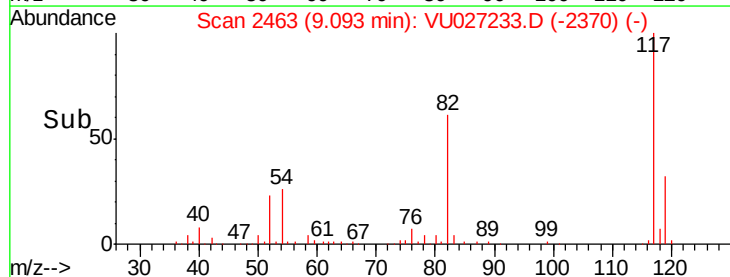
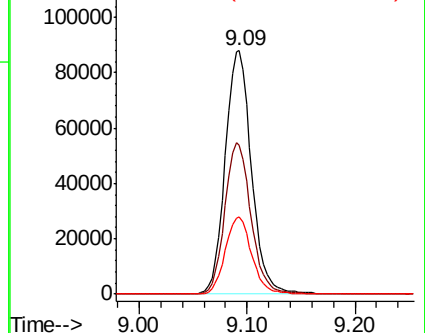
119 31.8 25.8 38.8

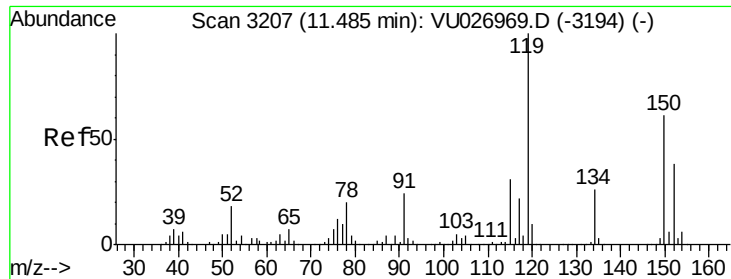


Abundance Ion 116.90 (116.60 to 117.60): V

Ion 82.00 (81.70 to 82.70): VU0

Ion 118.90 (118.60 to 119.60): 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: VU027233.D

Acq: 27 Sep 2018 19:03

Instrument :

MSVOA_U

ClientSampled :

MH-4

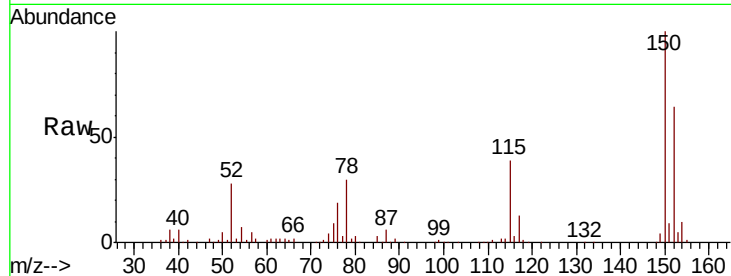
Tot Ion:152 Resp: 67540

Ion Ratio Lower Upper

152 100

115 61.0 44.9 134.5

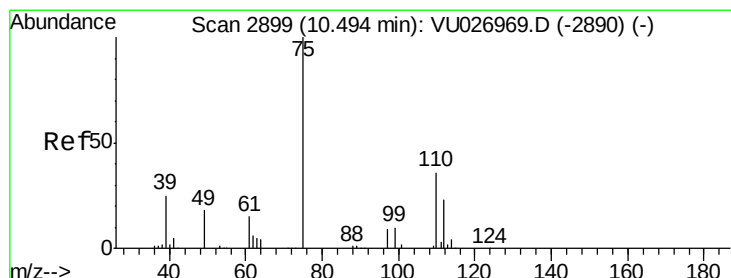
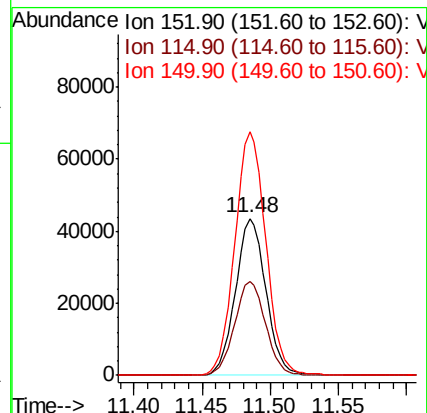
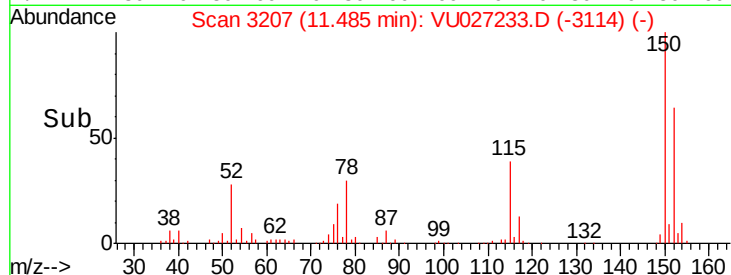
150 157.7 0.0 355.8



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: 20.679 ug/l

RT: 10.31 min Scan# 2841

Delta R.T. -0.19 min

Lab File: VU027233.D

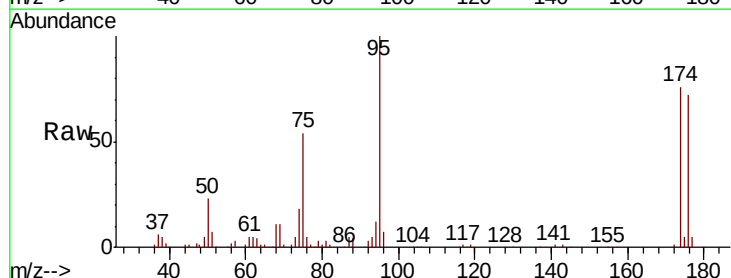
Acq: 27 Sep 2018 19:03

Tgt Ion: 75 Resp: 42430

Ion Ratio Lower Upper

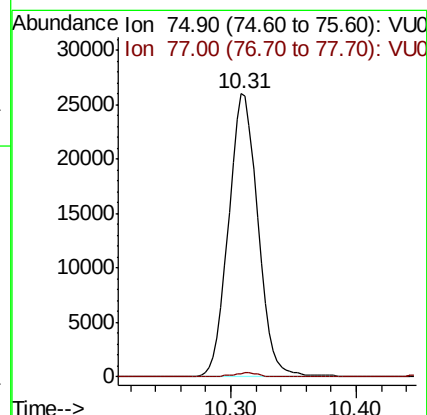
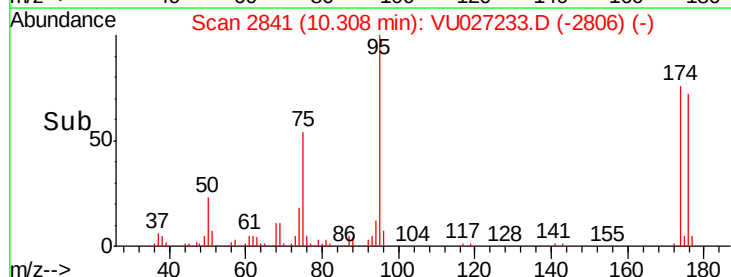
75 100

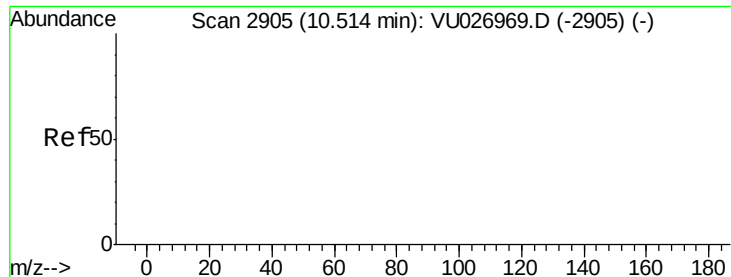
77 1.2 20.9 62.8#



Abundance Ion 74.90 (74.60 to 75.60): VU0

Ion 77.00 (76.70 to 77.70): VU0

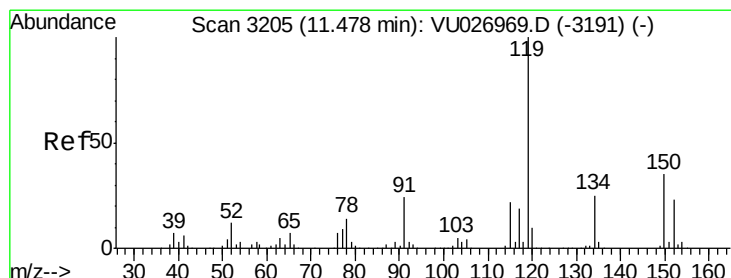
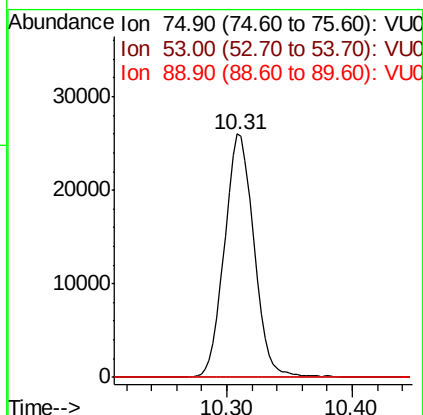
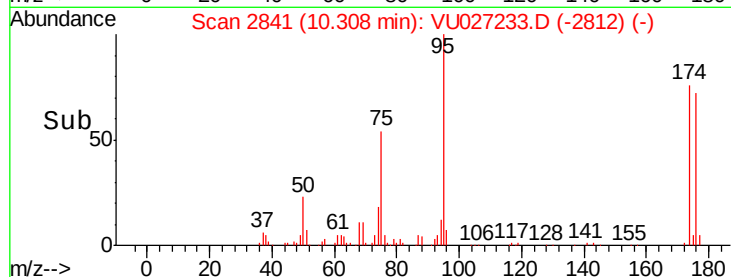
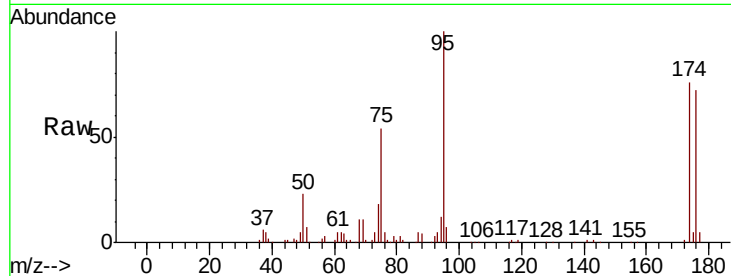




#81
trans-1,4-Dichloro-2-butene
Concen: 66.176 ug/l
RT: 10.31 min Scan# 2841
Delta R.T. -0.21 min
Lab File: VU027233.D
Acq: 27 Sep 2018 19:03

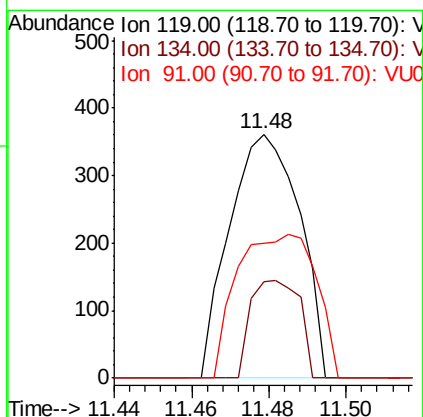
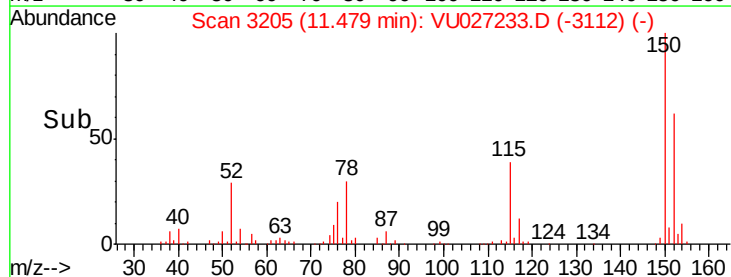
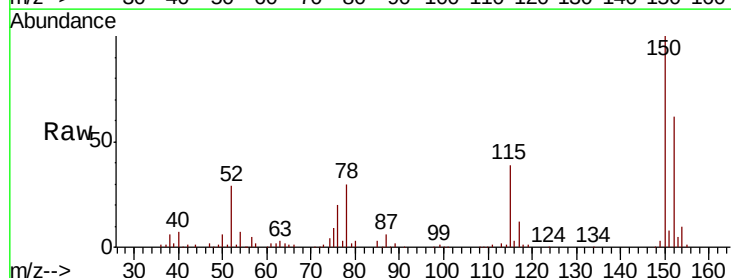
Instrument :
MSVOA_U
ClientSampleId :
MH-4

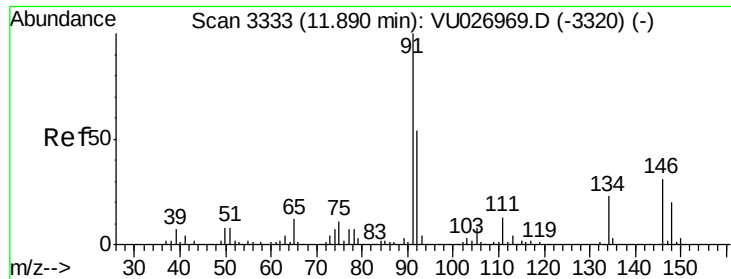
Tot Ion: 75 Resp: 42430
Ion Ratio Lower Upper
75 100
53 0.0 0.0 0.0
89 0.0 0.0 0.0



#86
p-Isopropyltoluene
Concen: 1.020 ug/l
RT: 11.48 min Scan# 3205
Delta R.T. 0.00 min
Lab File: VU027233.D
Acq: 27 Sep 2018 19:03

Tgt Ion: 119 Resp: 454
Ion Ratio Lower Upper
119 100
134 28.0 12.8 38.3
91 66.3 12.3 36.8#





#89

n-Butylbenzene

Concen: 2.474 ug/l

RT: 11.89 min Scan# 3334

Delta R.T. 0.00 min

Lab File: VU027233.D

Acq: 27 Sep 2018 19:03

Instrument :

MSVOA_U

ClientSampleId :

MH-4

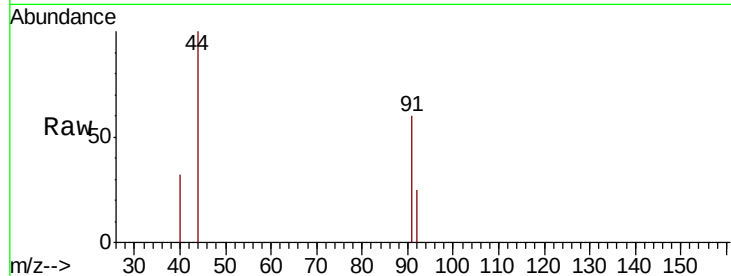
Tot Ion: 91 Resp: 398

Ion Ratio Lower Upper

91 100

92 47.5 27.1 81.2

134 0.0 11.7 35.0#

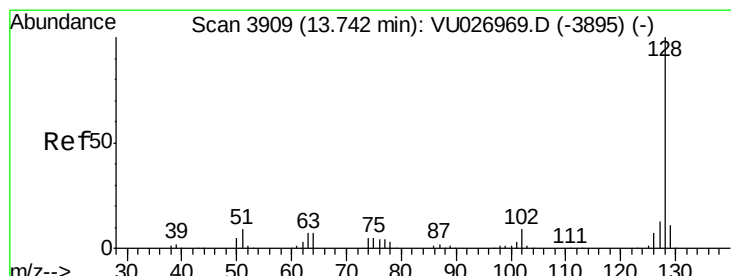
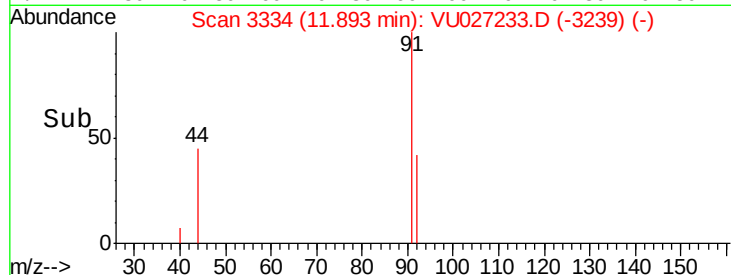
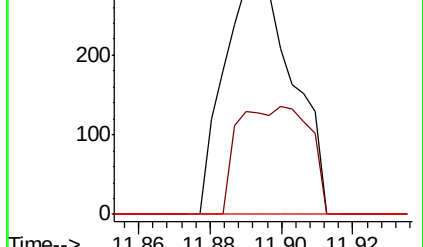


Abundance Ion 91.00 (90.70 to 91.70): VU026969.D (-3320) (-)

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

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

Time-->



#95

Naphthalene

Concen: 1.942 ug/l

RT: 13.75 min Scan# 3912

Delta R.T. 0.01 min

Lab File: VU027233.D

Acq: 27 Sep 2018 19:03

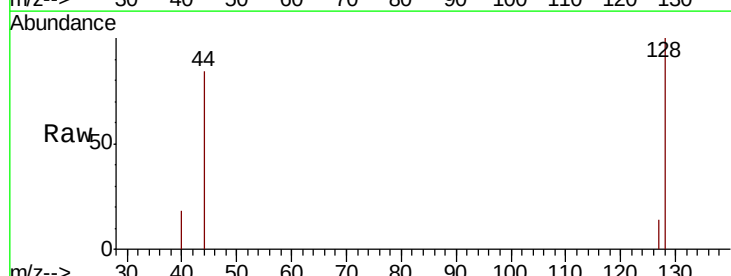
Tgt Ion: 128 Resp: 1465

Ion Ratio Lower Upper

128 100

127 2.7 10.6 15.8#

129 0.0 8.6 12.8#

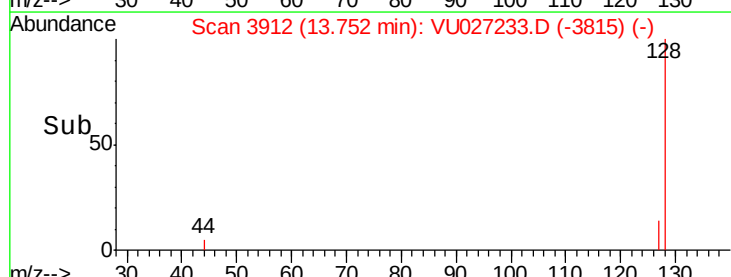
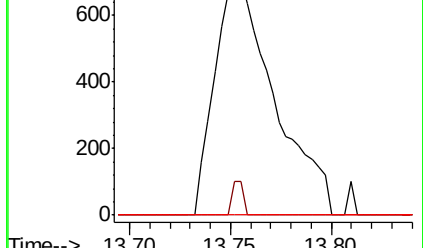


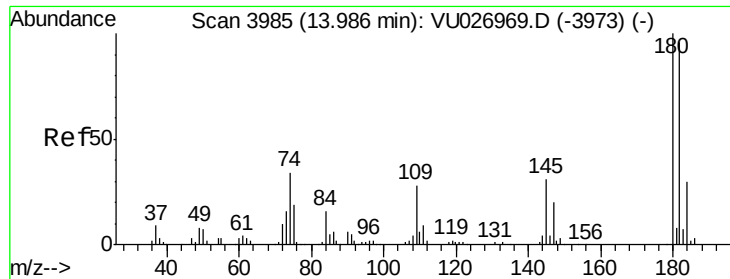
Abundance Ion 128.00 (127.70 to 128.70): VU026969.D (-3895) (-)

Ion 127.00 (126.70 to 127.70): VU026969.D (-3895) (-)

Ion 129.00 (128.70 to 129.70): VU026969.D (-3895) (-)

Time-->





#96

1,2,3-Trichlorobenzene

Concen: 0.325 ug/l

RT: 13.99 min Scan# 3987

Delta R.T. 0.01 min

Lab File: VU027233.D

Acq: 27 Sep 2018 19:03

Instrument :

MSVOA_U

ClientSampleId :

MH-4

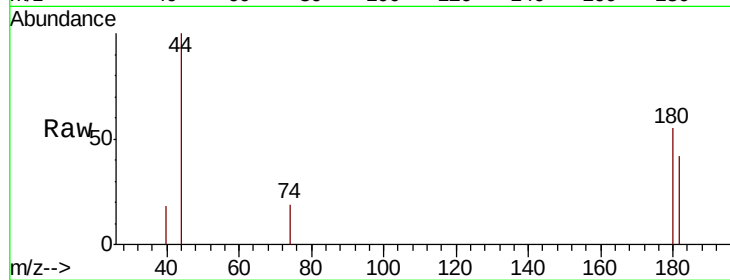
Tot Ion:180 Resp: 499

Ion Ratio Lower Upper

180 100

182 79.4 47.5 142.5

145 0.0 15.4 46.4#



Abundance Ion 179.80 (179.50 to 180.50): V

Ion 181.80 (181.50 to 182.50): V

Ion 144.90 (144.60 to 145.60): V

