

Data Path : Z:\VOASRV\HPCHEM1\MSVOA U\DATA\U092818\
 Data File : VU027258.D
 Acq On : 28 Sep 2018 10:02
 Operator : MD/SY
 Sample : J5072-02
 Misc : 5.0mL/MSVOA U/WATER
 ALS Vial : 5 Sample Multiplier: 1

Instrument :
 MSVOA_U
 ClientSampleId :
 MH-8

Quant Time: Sep 28 16:15:12 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	96705	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	5.89	114	163178	50.00	ug/l	0.00
63) Chlorobenzene-d5	9.09	117	153844	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	11.49	152	68421	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	99385	51.06	ug/l	0.00
Spiked Amount			Recovery	=	102.12%	
35) Dibromofluoromethane	4.89	113	68138	48.17	ug/l	0.00
Spiked Amount			Recovery	=	96.34%	
50) Toluene-d8	7.57	98	260075	48.25	ug/l	0.00
Spiked Amount			Recovery	=	96.50%	
62) 4-Bromofluorobenzene	10.31	95	82700	44.71	ug/l	0.00
Spiked Amount			Recovery	=	89.42%	

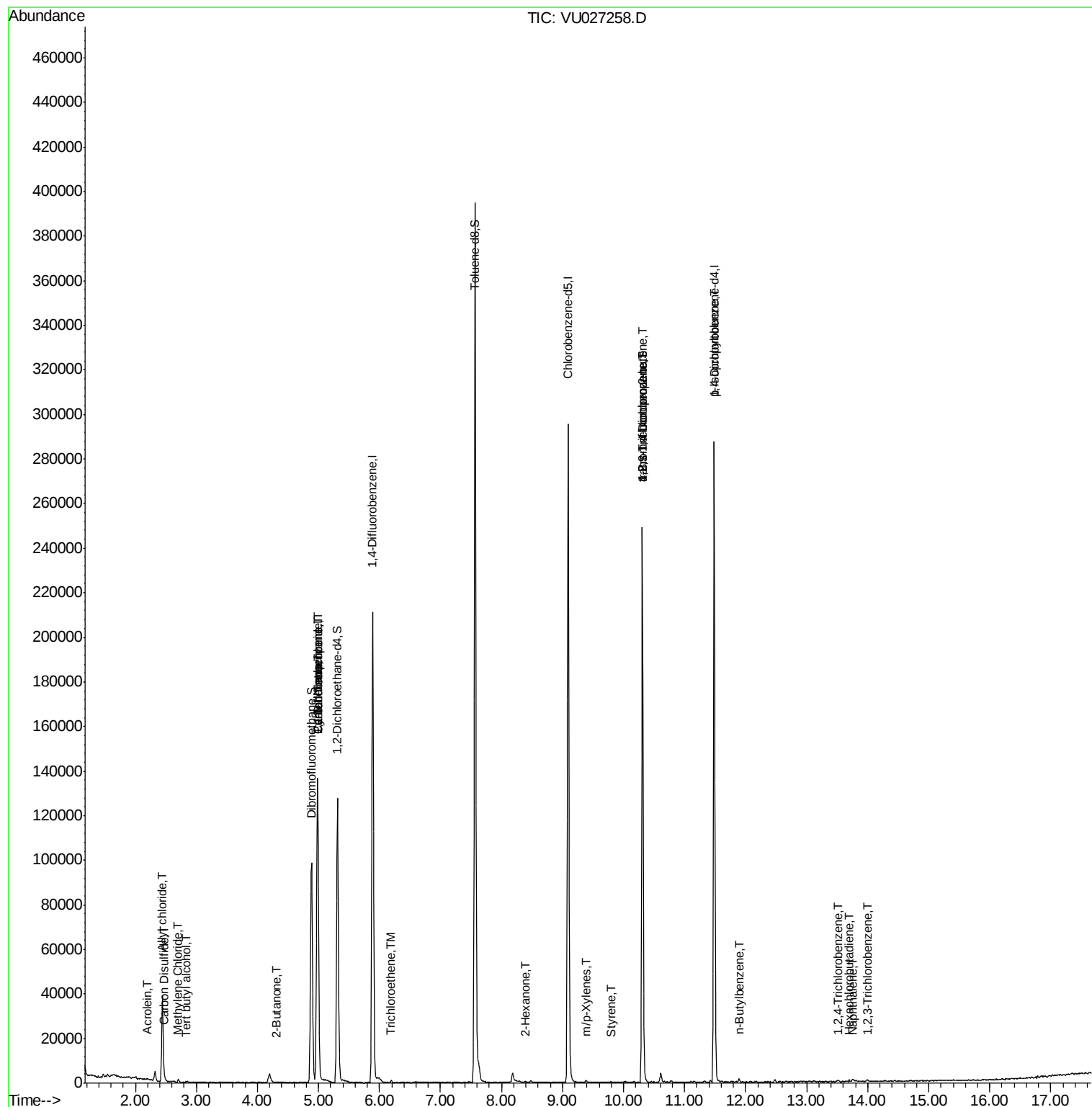
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
11) Tert butyl alcohol	2.82	59	96	0.215	ug/l #	72
13) Acrolein	2.19	56	90	0.374	ug/l #	69
14) Allyl chloride	2.44	41	3852	1.422	ug/l #	76
16) Acetone	2.32	43	4340	Below Cal		98
17) Carbon Disulfide	2.48	76	1095	0.252	ug/l #	75
20) Methylene Chloride	2.70	84	385	0.221	ug/l #	72
25) 2-Butanone	4.30	43	377	0.230	ug/l #	53
31) Cyclohexane	4.99	56	2640	0.339	ug/l #	1
36) 1,1-Dichloropropene	4.99	75	8930	4.100	ug/l #	49
38) Carbon Tetrachloride	4.99	117	10168	4.906	ug/l #	18
44) Trichloroethene	6.19	130	390	0.277	ug/l	76
59) 2-Hexanone	8.38	43	620	0.274	ug/l #	57
68) m/p-Xylenes	9.37	106	195	1.571	ug/l #	9
70) Styrene	9.80	104	284	1.872	ug/l #	24
76) 1,2,3-Trichloropropane	10.31	75	44393	21.357	ug/l #	36
81) trans-1,4-Dichloro-2-buten	10.31	75	44393	68.346	ug/l #	100
86) p-Isopropyltoluene	11.48	119	510	1.030	ug/l #	68
89) n-Butylbenzene	11.89	91	1017	2.598	ug/l #	74
93) 1,2,4-Trichlorobenzene	13.51	180	509	0.351	ug/l #	76
94) Hexachlorobutadiene	13.70	225	198	0.258	ug/l	74
95) Naphthalene	13.76	128	1717	1.982	ug/l #	78
96) 1,2,3-Trichlorobenzene	14.00	180	553	0.356	ug/l #	85

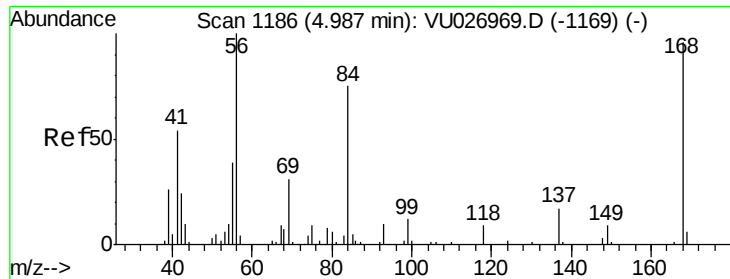
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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Quant Title : SW846 8260
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Response via : Initial Calibration





#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 4.99 min Scan# 1186

Delta R.T. 0.00 min

Lab File: VU027258.D

Acq: 28 Sep 2018 10:02

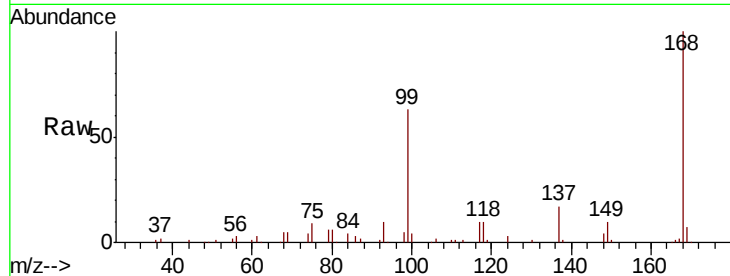
Instrument :
MSVOA_U
ClientSampleId :
MH-8

Tot Ion:168 Resp: 96705

Ion Ratio Lower Upper

168 100

99 63.3 48.1 72.1



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

Ion 98.90 (98.60 to 99.60): VU027258.D (-1093) (-)

4.99

50000

40000

30000

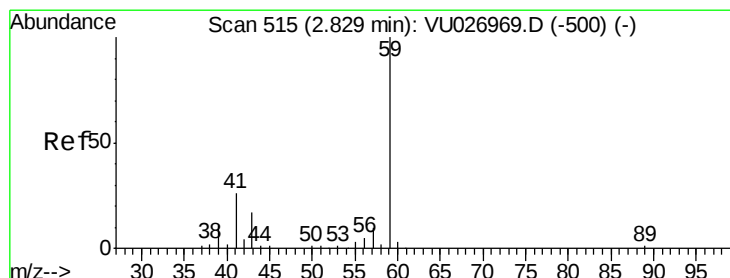
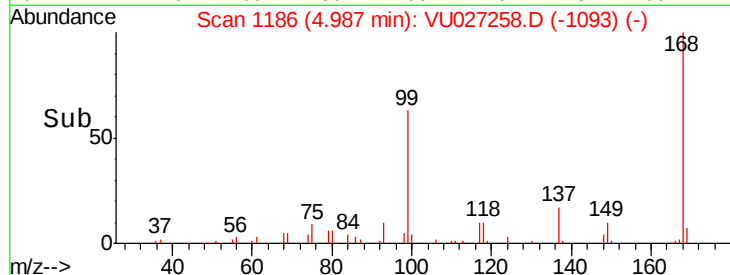
20000

10000

0

Time-->

4.90 4.95 5.00 5.05 5.10



#11

Tert butyl alcohol

Concen: 0.215 ug/l

RT: 2.82 min Scan# 513

Delta R.T. -0.01 min

Lab File: VU027258.D

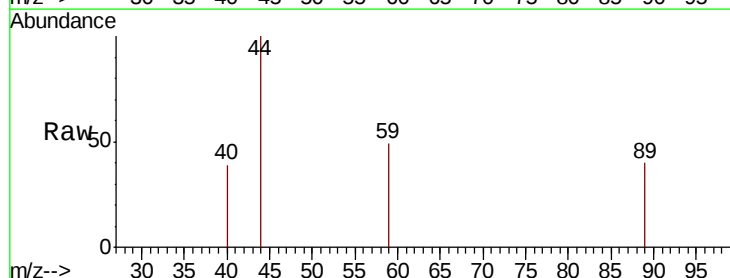
Acq: 28 Sep 2018 10:02

Tgt Ion: 59 Resp: 96

Ion Ratio Lower Upper

59 100

57 0.0 8.5 12.7#



Abundance Ion 59.00 (58.70 to 59.70): VU026969.D (-500) (-)

Ion 57.00 (56.70 to 57.70): VU027258.D (-422) (-)

2.82

150

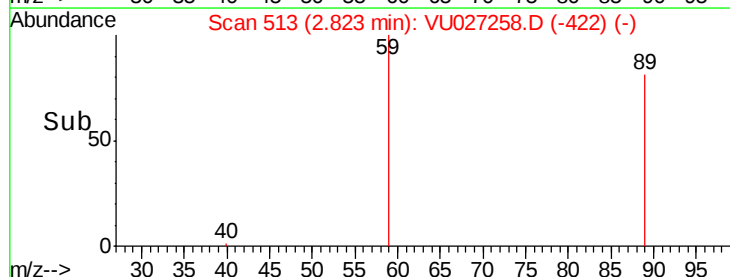
100

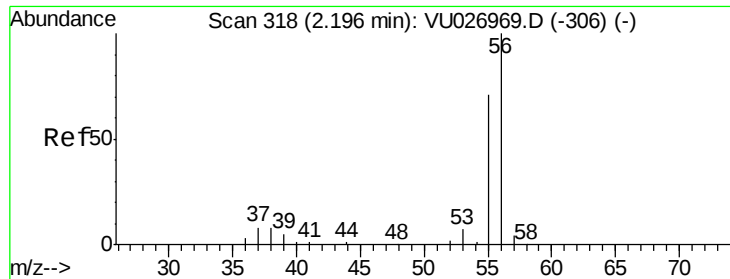
50

0

Time-->

2.81 2.82 2.83





#13

Acrolein

Concen: 0.374 ug/l

RT: 2.19 min Scan# 317

Delta R.T. -0.00 min

Lab File: VU027258.D

Acq: 28 Sep 2018 10:02

Instrument :

MSVOA_U

ClientSampleId :

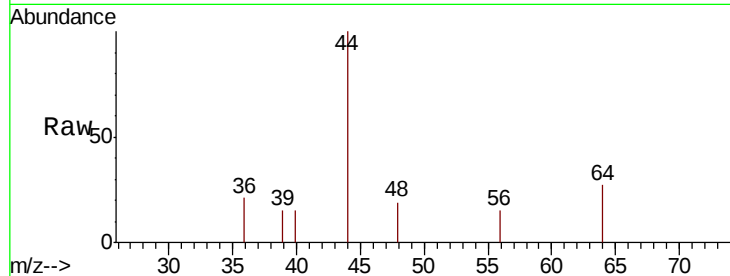
MH-8

Tot Ion: 56 Resp: 90

Ion Ratio Lower Upper

56 100

55 45.6 57.1 85.7#



Abundance Ion 56.00 (55.70 to 56.70): VU0

Ion 55.00 (54.70 to 55.70): VU0

2.19

150

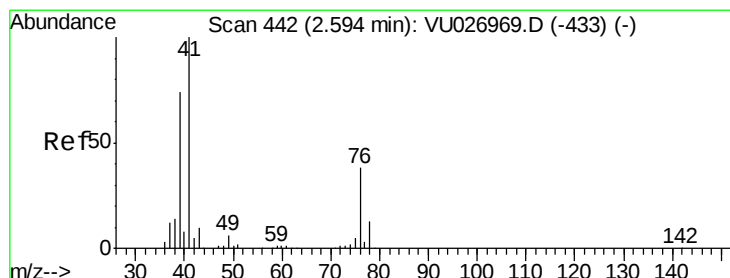
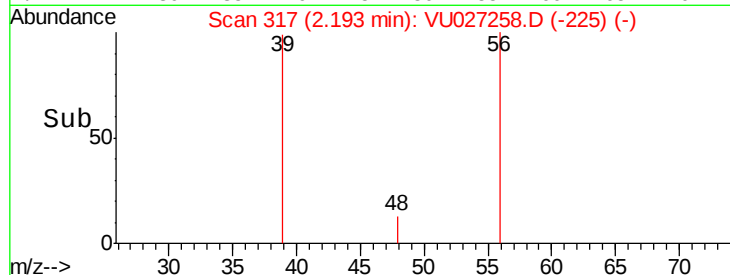
100

50

0

Time-->

2.18 2.19 2.20 2.21



#14

Allyl chloride

Concen: 1.422 ug/l

RT: 2.44 min Scan# 395

Delta R.T. -0.15 min

Lab File: VU027258.D

Acq: 28 Sep 2018 10:02

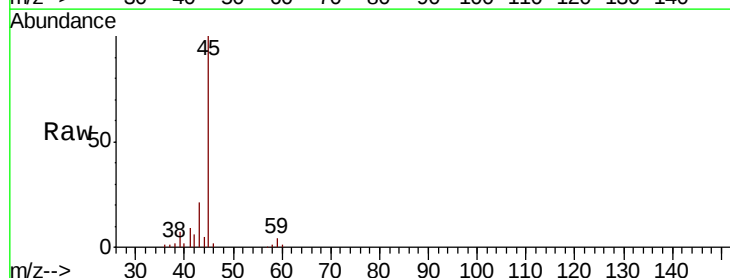
Tgt Ion: 41 Resp: 3852

Ion Ratio Lower Upper

41 100

39 75.4 55.7 83.5

76 0.0 26.5 39.7#



Abundance Ion 41.00 (40.70 to 41.70): VU0

Ion 39.00 (38.70 to 39.70): VU0

Ion 75.90 (75.60 to 76.60): VU0

3000

2500

2000

1500

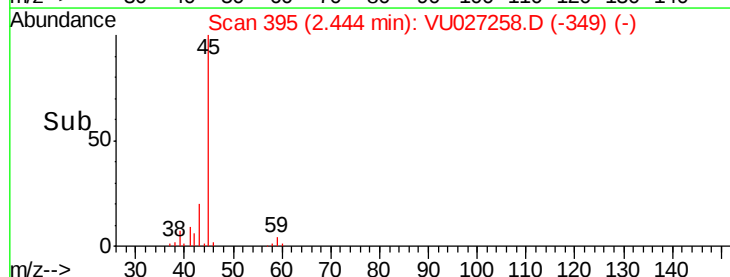
1000

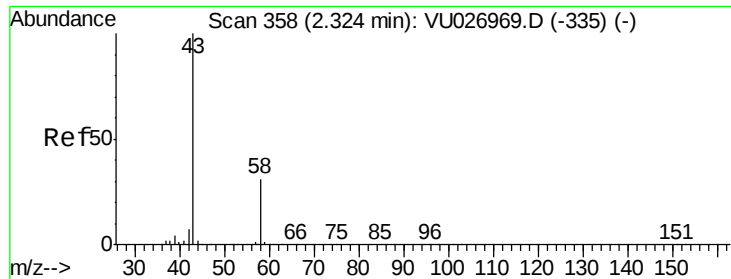
500

0

Time-->

2.40 2.45 2.50





#16

Acetone

Concen: Below Cal

RT: 2.32 min Scan# 357

Delta R.T. -0.00 min

Lab File: VU027258.D

Acq: 28 Sep 2018 10:02

Instrument :

MSVOA_U

ClientSampleId :

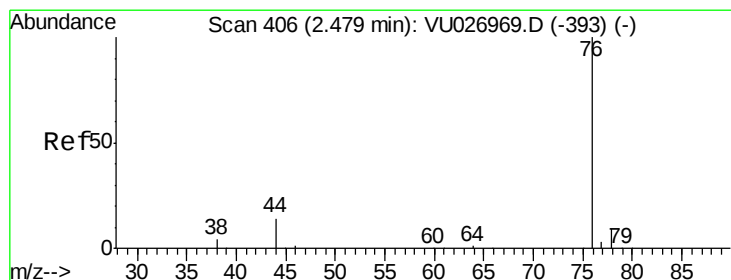
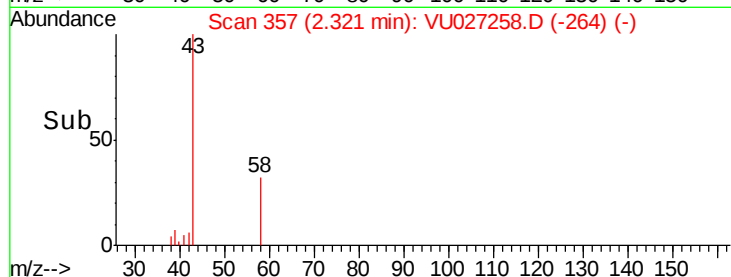
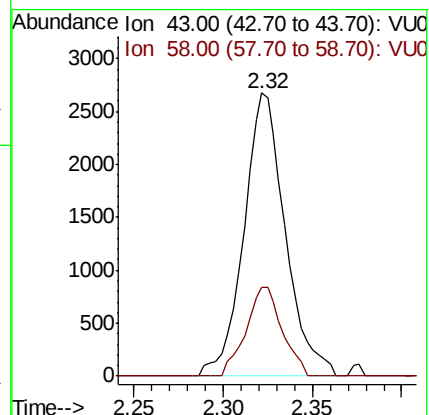
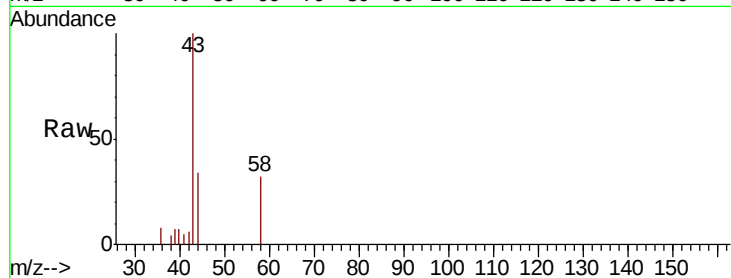
MH-8

Tot Ion: 43 Resp: 4340

Ion Ratio Lower Upper

43 100

58 31.6 24.6 36.8



#17

Carbon Disulfide

Concen: 0.252 ug/l

RT: 2.48 min Scan# 406

Delta R.T. 0.00 min

Lab File: VU027258.D

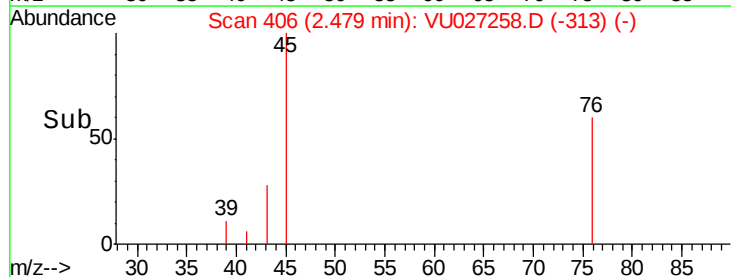
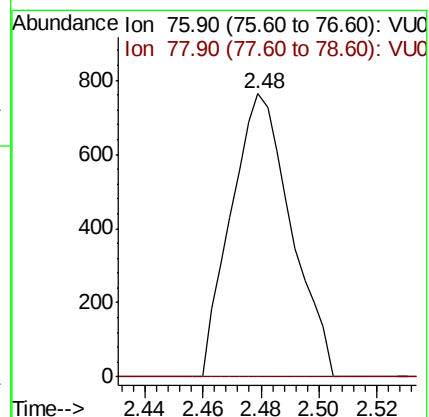
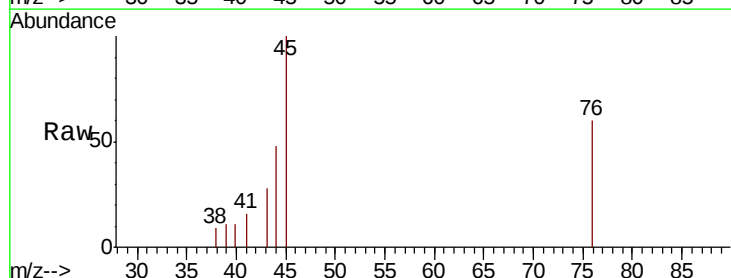
Acq: 28 Sep 2018 10:02

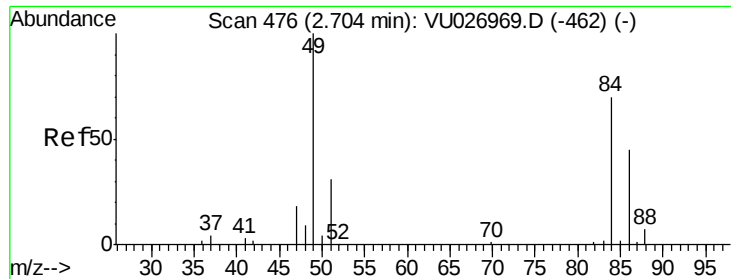
Tgt Ion: 76 Resp: 1095

Ion Ratio Lower Upper

76 100

78 0.0 7.1 10.7#

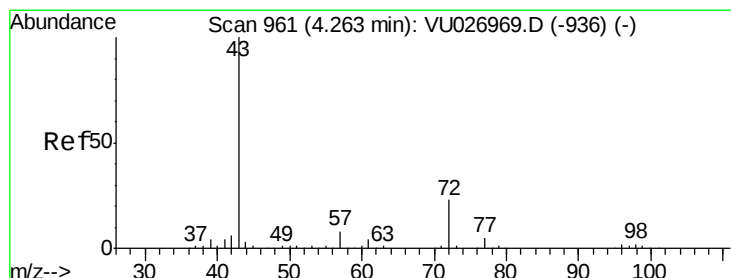
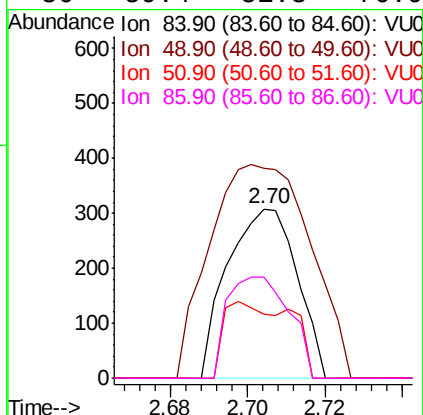
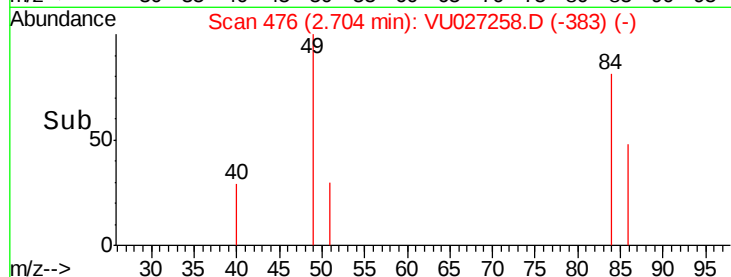
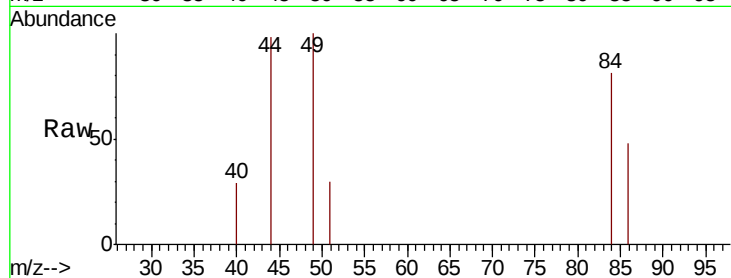




#20
Methvlene Chloride
Concen: 0.221 ug/l
RT: 2.70 min Scan# 476
Delta R.T. 0.00 min
Lab File: VU027258.D
Acq: 28 Sep 2018 10:02

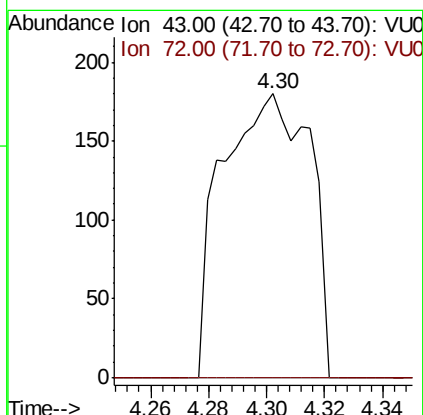
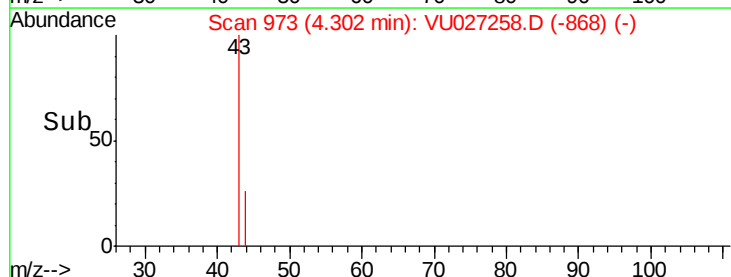
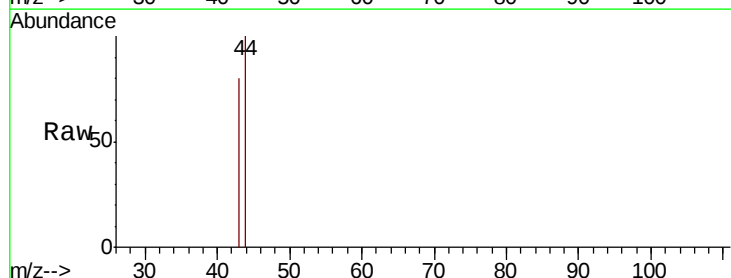
Instrument :
MSVOA_U
ClientSampleId :
MH-8

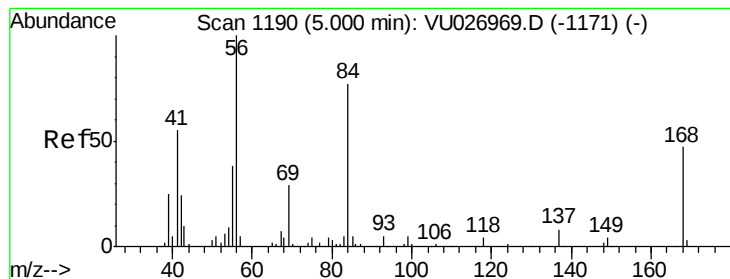
Tot Ion: 84 Resp: 385
Ion Ratio Lower Upper
84 100
49 89.9 114.9 172.3#
51 37.7 35.8 53.8
86 59.4 51.3 76.9



#25
2-Butanone
Concen: 0.230 ug/l
RT: 4.30 min Scan# 973
Delta R.T. 0.04 min
Lab File: VU027258.D
Acq: 28 Sep 2018 10:02

Tgt Ion: 43 Resp: 377
Ion Ratio Lower Upper
43 100
72 0.0 18.4 27.6#





#31

Cyclohexane

Concen: 0.339 ug/l

RT: 4.99 min Scan# 1186

Delta R.T. -0.01 min

Lab File: VU027258.D

Acq: 28 Sep 2018 10:02

Instrument :

MSVOA_U

ClientSampleId :

MH-8

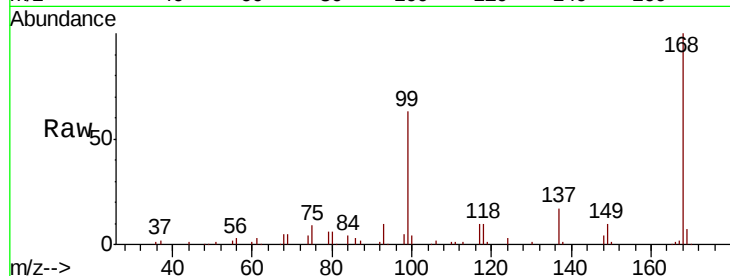
Tot Ion: 56 Resp: 2640

Ion Ratio Lower Upper

56 100

69 150.9 23.0 34.4#

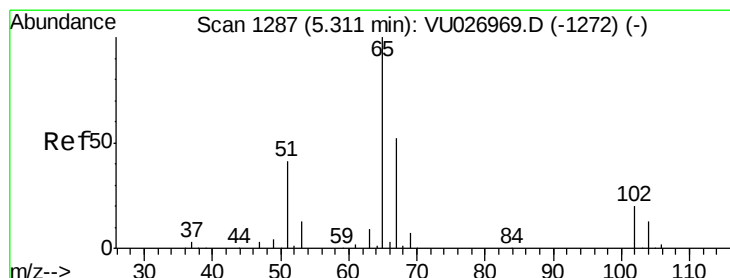
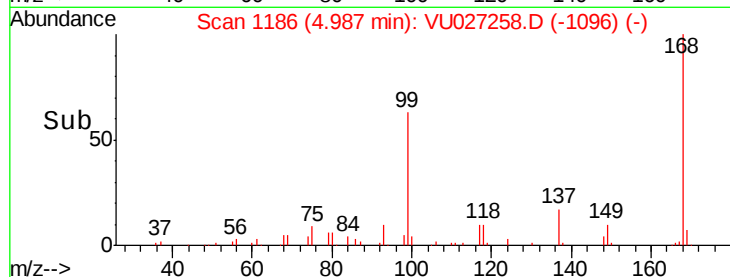
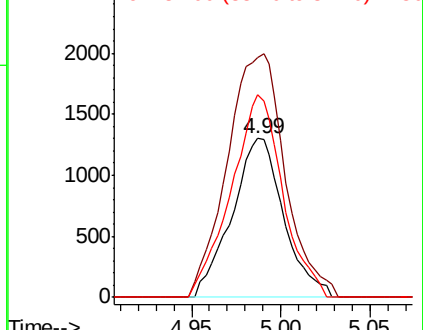
84 127.5 61.4 92.2#



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

Ion 69.00 (68.70 to 69.70): VU026969.D (-1171) (-)

Ion 84.00 (83.70 to 84.70): VU026969.D (-1171) (-)



#33

1,2-Dichloroethane-d4

Concen: 51.062 ug/l

RT: 5.31 min Scan# 1287

Delta R.T. 0.00 min

Lab File: VU027258.D

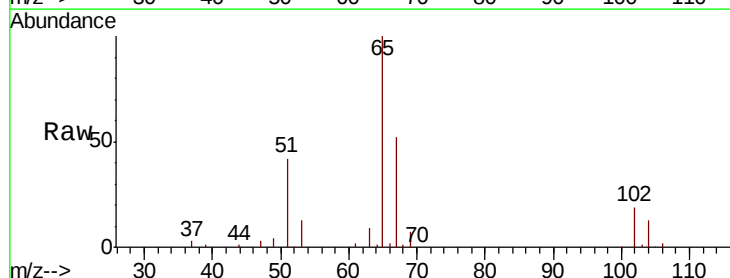
Acq: 28 Sep 2018 10:02

Tgt Ion: 65 Resp: 99385

Ion Ratio Lower Upper

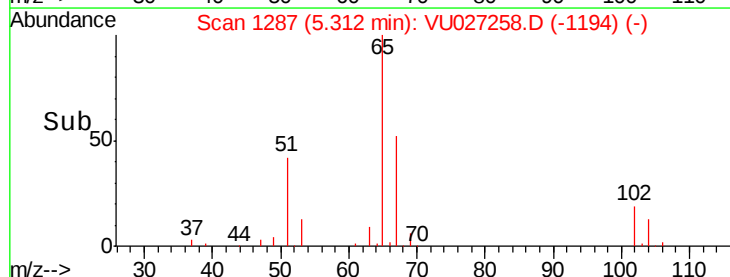
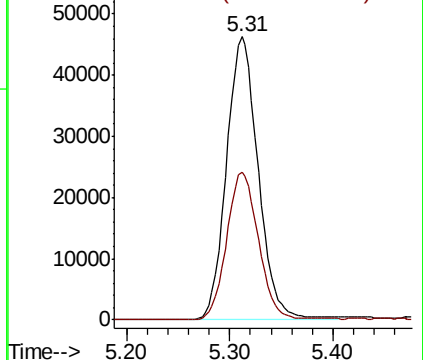
65 100

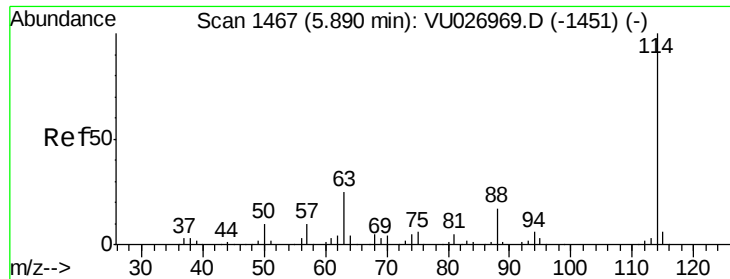
67 52.2 0.0 105.6



Abundance Ion 64.90 (64.60 to 65.60): VU026969.D (-1272) (-)

Ion 66.90 (66.60 to 67.60): VU026969.D (-1272) (-)

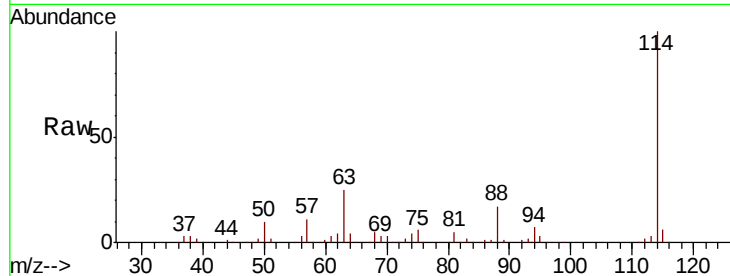




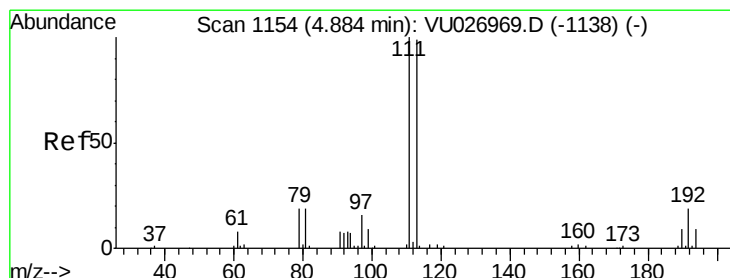
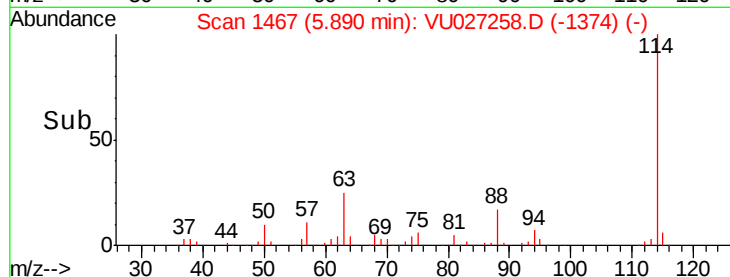
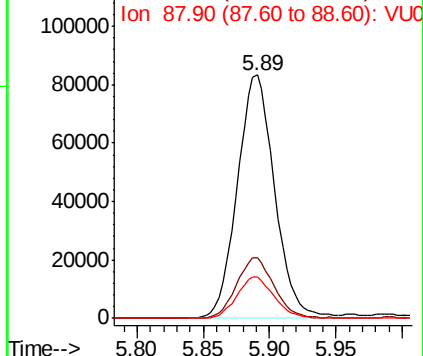
#34
 1,4-Difluorobenzene
 Concen: 50.000 ug/l
 RT: 5.89 min Scan# 1467
 Delta R.T. 0.00 min
 Lab File: VU027258.D
 Acq: 28 Sep 2018 10:02

Instrument :
 MSVOA_U
 ClientSampled :
 MH-8

Tot Ion:114 Resp: 163178
 Ion Ratio Lower Upper
 114 100
 63 24.8 0.0 49.2
 88 16.8 0.0 33.8

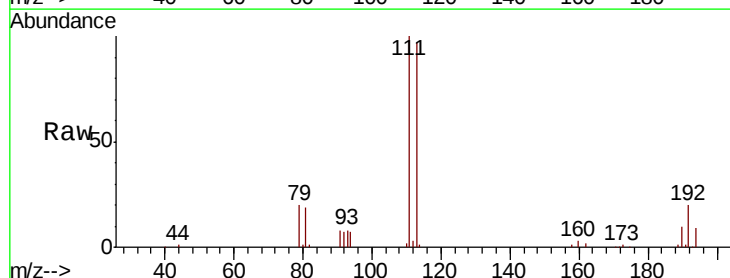


Abundance Ion 113.90 (113.60 to 114.60): V
 Ion 63.00 (62.70 to 63.70): VU0
 Ion 87.90 (87.60 to 88.60): VU0

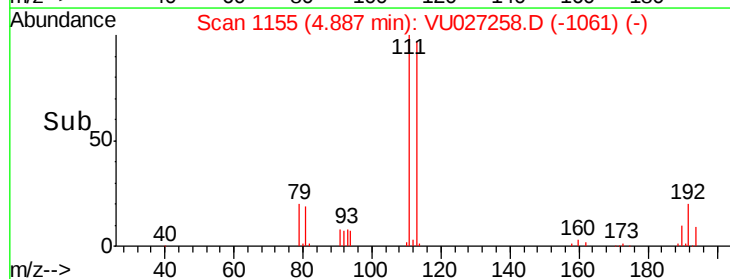
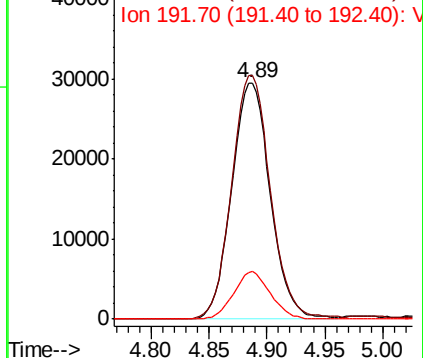


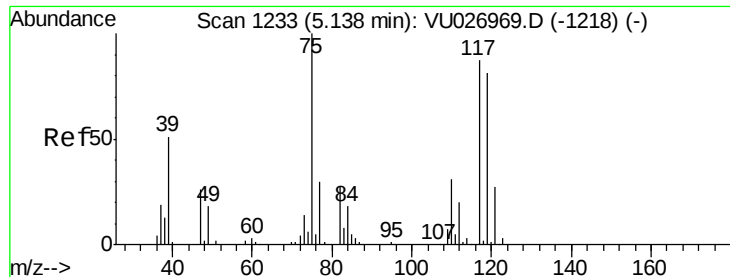
#35
 Dibromofluoromethane
 Concen: 48.173 ug/l
 RT: 4.89 min Scan# 1155
 Delta R.T. 0.00 min
 Lab File: VU027258.D
 Acq: 28 Sep 2018 10:02

Tgt Ion:113 Resp: 68138
 Ion Ratio Lower Upper
 113 100
 111 103.5 82.2 123.4
 192 19.0 15.2 22.8



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

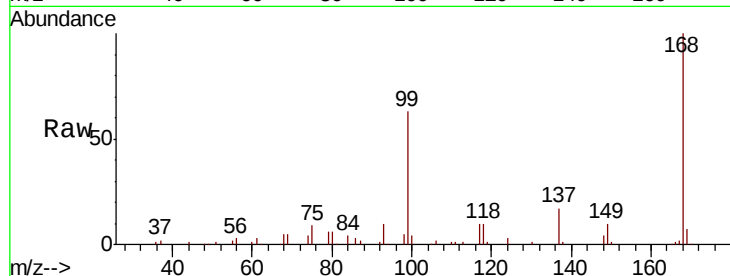




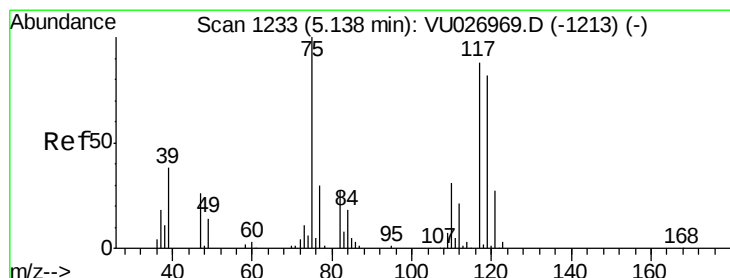
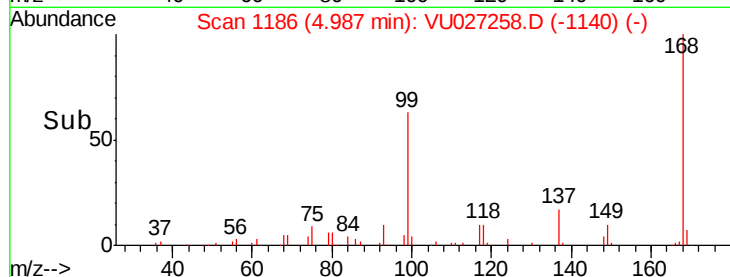
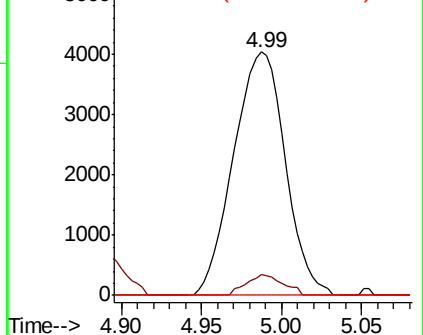
#36
 1,1-Dichloropropene
 Concen: 4.100 ug/l
 RT: 4.99 min Scan# 1186
 Delta R.T. -0.15 min
 Lab File: VU027258.D
 Acq: 28 Sep 2018 10:02

Instrument :
 MSVOA_U
 ClientSampled :
 MH-8

Tot Ion: 75 Resp: 8930
 Ion Ratio Lower Upper
 75 100
 110 6.1 16.1 48.2#
 77 0.0 24.6 36.8#

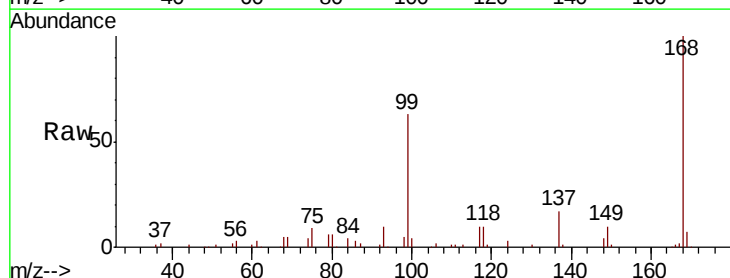


Abundance Ion 74.90 (74.60 to 75.60): VU0
 Ion 109.90 (109.60 to 110.60): V
 Ion 76.90 (76.60 to 77.60): VU0

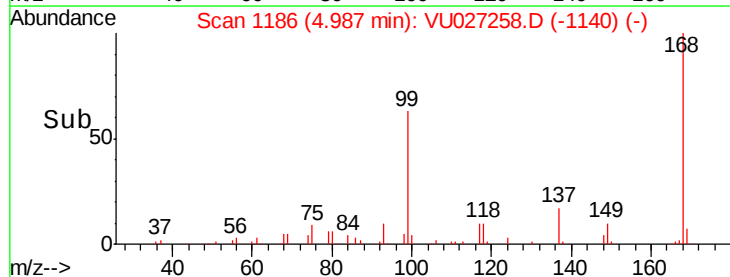
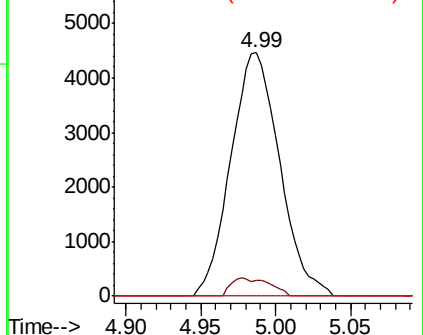


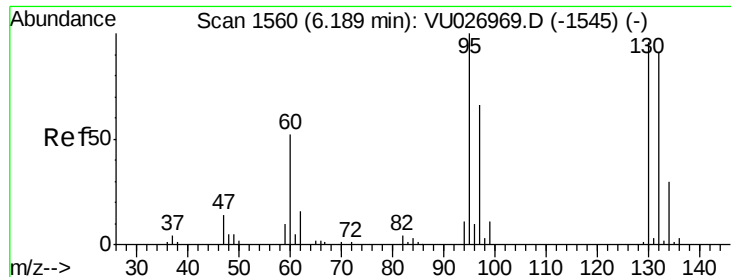
#38
 Carbon Tetrachloride
 Concen: 4.906 ug/l
 RT: 4.99 min Scan# 1186
 Delta R.T. -0.15 min
 Lab File: VU027258.D
 Acq: 28 Sep 2018 10:02

Tgt Ion: 117 Resp: 10168
 Ion Ratio Lower Upper
 117 100
 119 6.2 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





#44

Trichloroethene

Concen: 0.277 ug/l

RT: 6.19 min Scan# 1561

Delta R.T. 0.00 min

Lab File: VU027258.D

Acq: 28 Sep 2018 10:02

Instrument :

MSVOA_U

ClientSampleId :

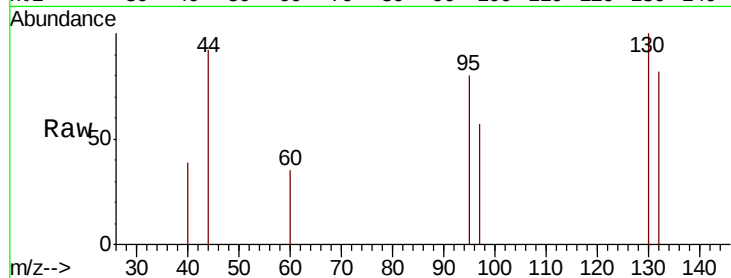
MH-8

Tot Ion:130 Resp: 390

Ion Ratio Lower Upper

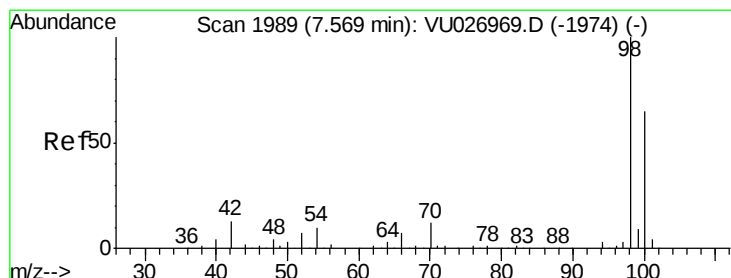
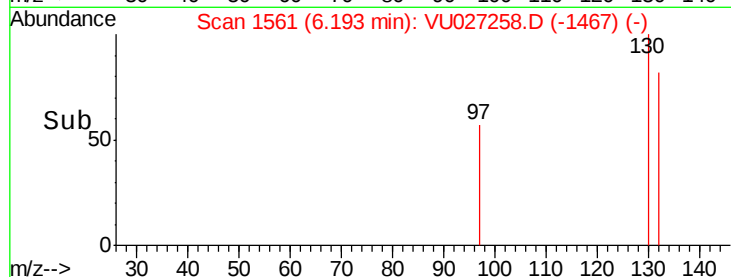
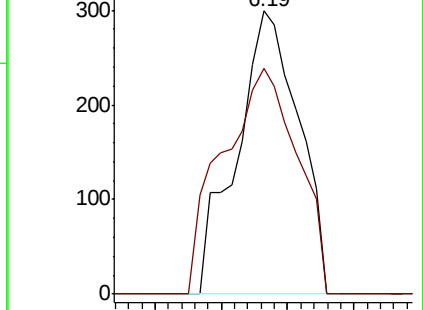
130 100

95 79.6 0.0 208.8



Abundance Ion 129.80 (129.50 to 130.50): VU026969.D (-1545) (-)

Ion 94.90 (94.60 to 95.60): VU026969.D (-1545) (-)



#50

Toluene-d8

Concen: 48.247 ug/l

RT: 7.57 min Scan# 1988

Delta R.T. -0.00 min

Lab File: VU027258.D

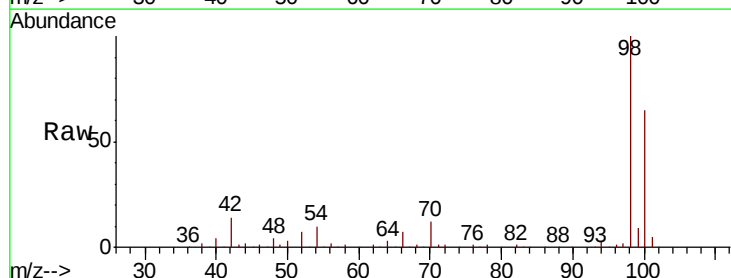
Acq: 28 Sep 2018 10:02

Tgt Ion: 98 Resp: 260075

Ion Ratio Lower Upper

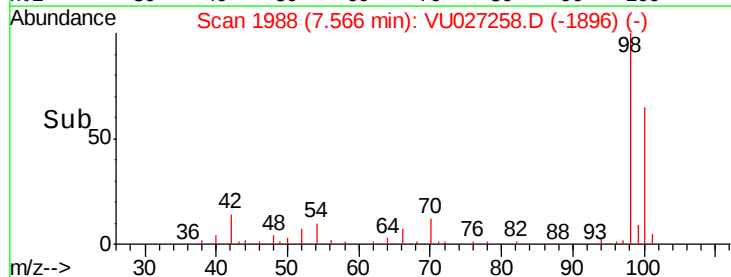
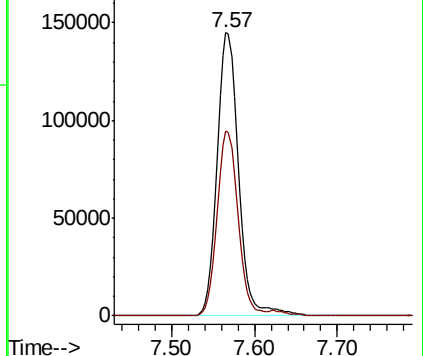
98 100

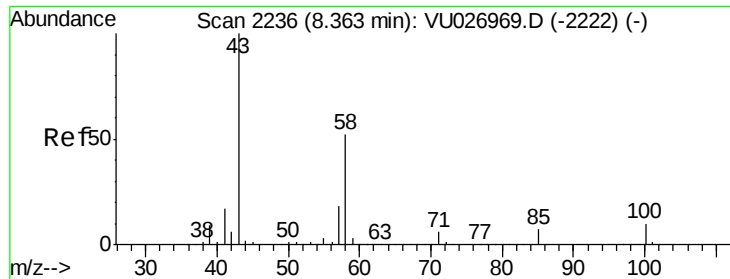
100 63.2 52.1 78.1



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

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

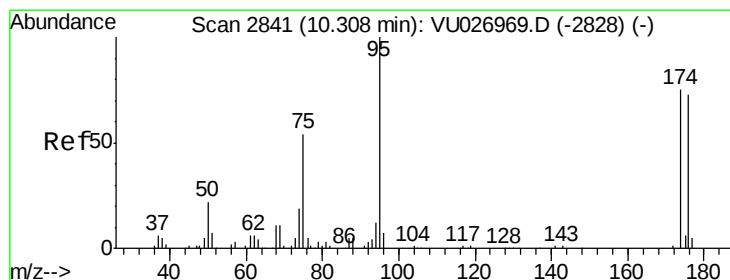
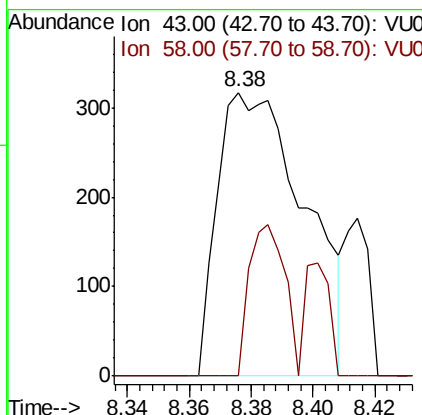
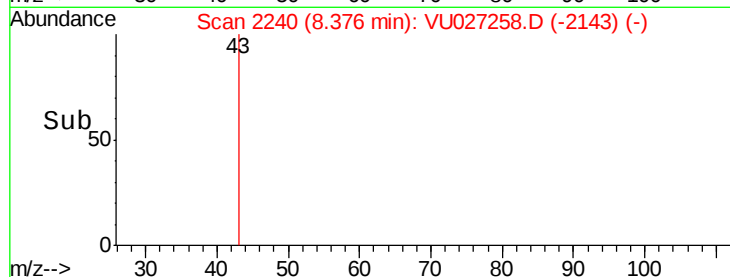
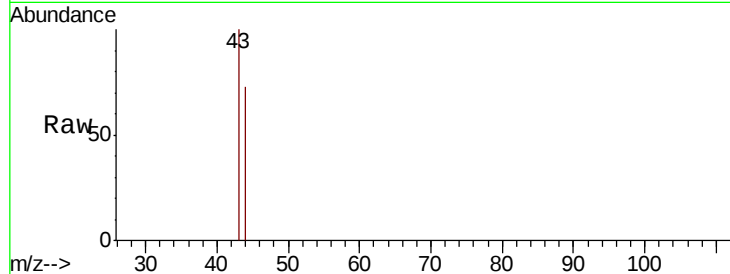




#59
 2-Hexanone
 Concen: 0.274 ug/l
 RT: 8.38 min Scan# 2240
 Delta R.T. 0.01 min
 Lab File: VU027258.D
 Acq: 28 Sep 2018 10:02

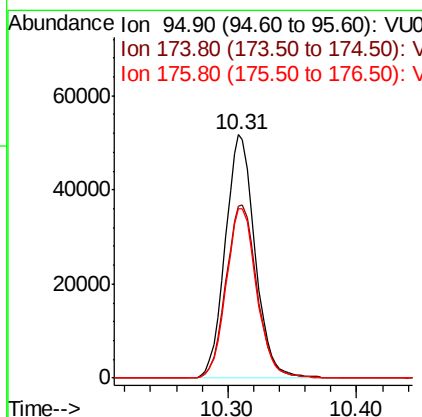
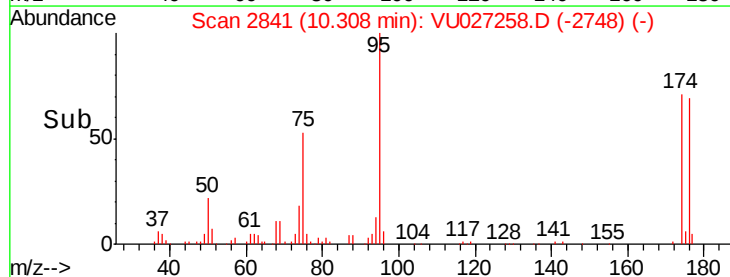
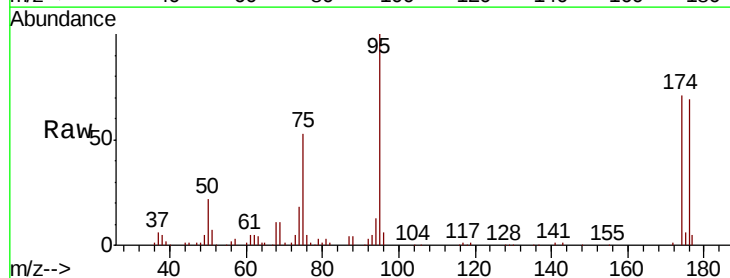
Instrument :
 MSVOA_U
 ClientSampleId :
 MH-8

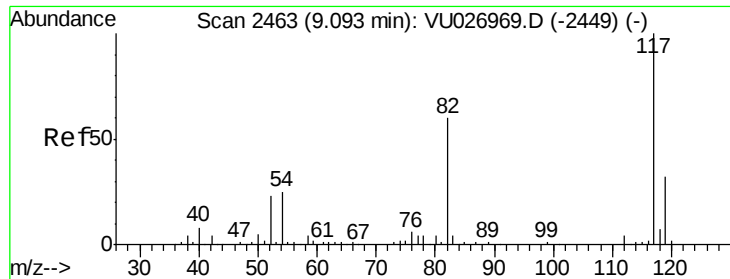
Tot Ion: 43 Resp: 620
 Ion Ratio Lower Upper
 43 100
 58 21.6 26.1 78.2#



#62
 4-Bromofluorobenzene
 Concen: 44.712 ug/l
 RT: 10.31 min Scan# 2841
 Delta R.T. 0.00 min
 Lab File: VU027258.D
 Acq: 28 Sep 2018 10:02

Tgt Ion: 95 Resp: 82700
 Ion Ratio Lower Upper
 95 100
 174 74.0 0.0 150.2
 176 71.6 0.0 145.2

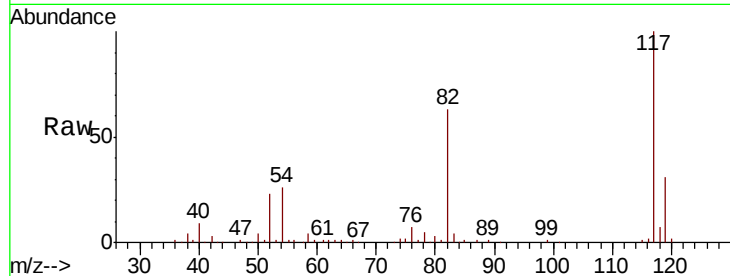




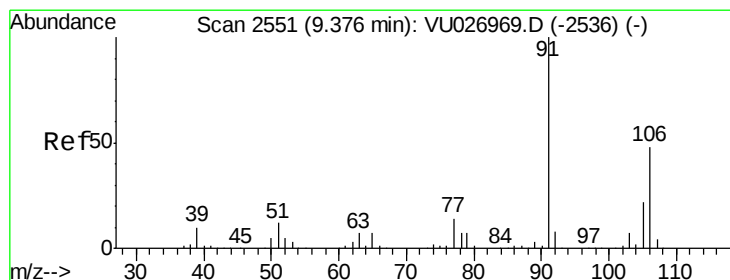
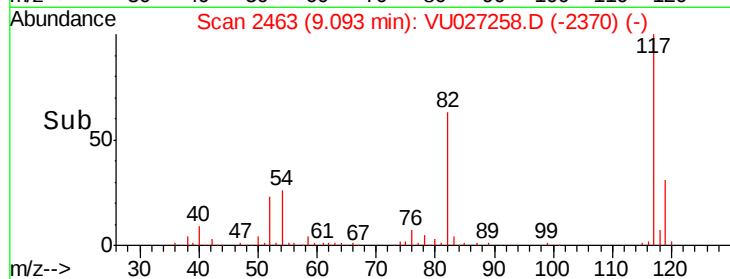
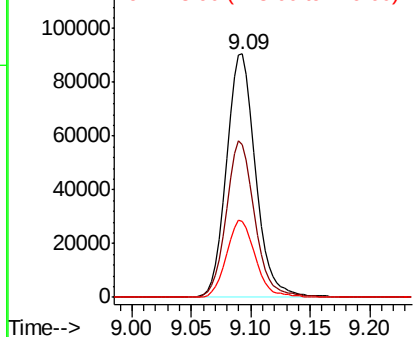
#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 9.09 min Scan# 2463
Delta R.T. 0.00 min
Lab File: VU027258.D
Acq: 28 Sep 2018 10:02

Instrument :
MSVOA_U
ClientSampleId :
MH-8

Tot Ion:117 Resp: 153844
Ion Ratio Lower Upper
117 100
82 62.7 48.0 72.0
119 31.4 25.8 38.8

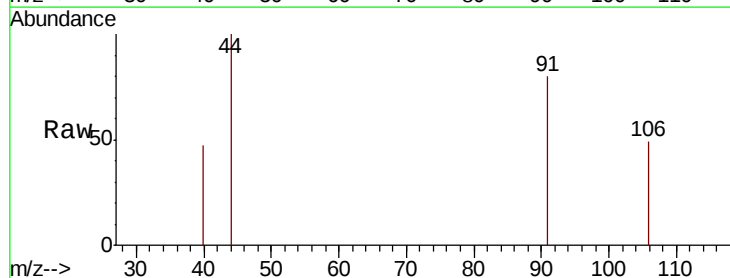


Abundance Ion 116.90 (116.60 to 117.60): V
Ion 82.00 (81.70 to 82.70): VU0
Ion 118.90 (118.60 to 119.60): V

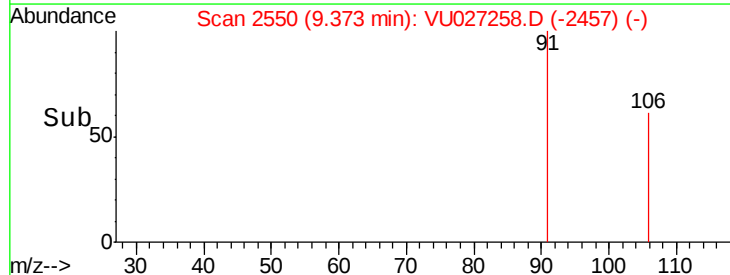
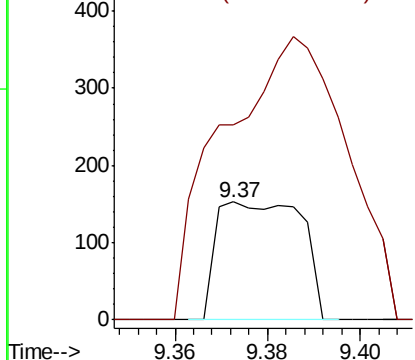


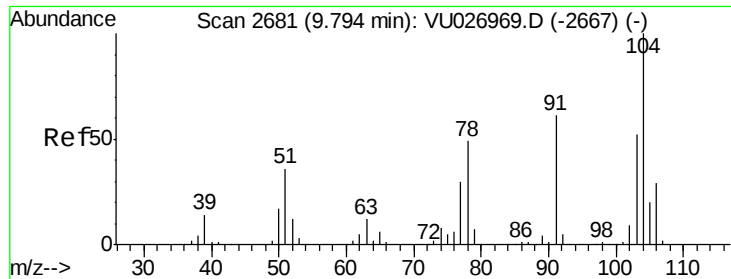
#68
m/p-Xylenes
Concen: 1.571 ug/l
RT: 9.37 min Scan# 2550
Delta R.T. -0.00 min
Lab File: VU027258.D
Acq: 28 Sep 2018 10:02

Tgt Ion:106 Resp: 195
Ion Ratio Lower Upper
106 100
91 349.2 166.5 249.7#



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





#70

Stvrene

Concen: 1.872 ug/l

RT: 9.80 min Scan# 2683

Delta R.T. 0.01 min

Lab File: VU027258.D

Acq: 28 Sep 2018 10:02

Instrument :

MSVOA_U

ClientSampleId :

MH-8

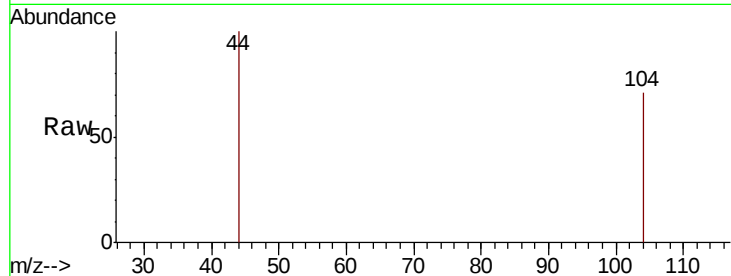
Tot Ion:104 Resp: 284

Ion Ratio Lower Upper

104 100

78 0.0 43.0 64.4#

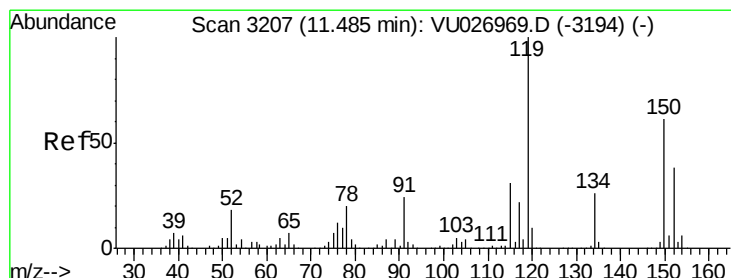
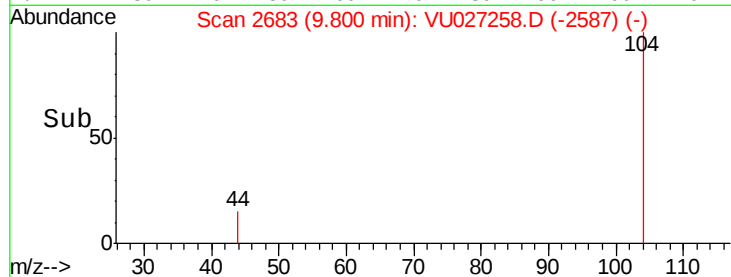
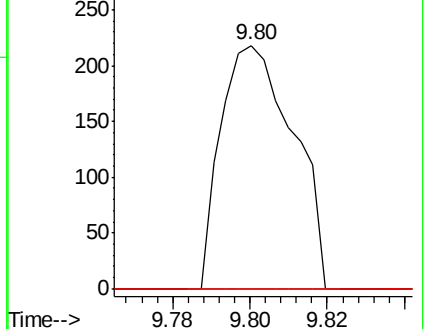
103 0.0 44.1 66.1#



Abundance Ion 104.00 (103.70 to 104.70): V

Ion 78.00 (77.70 to 78.70): V

Ion 103.00 (102.70 to 103.70): V



#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

RT: 11.49 min Scan# 3207

Delta R.T. 0.00 min

Lab File: VU027258.D

Acq: 28 Sep 2018 10:02

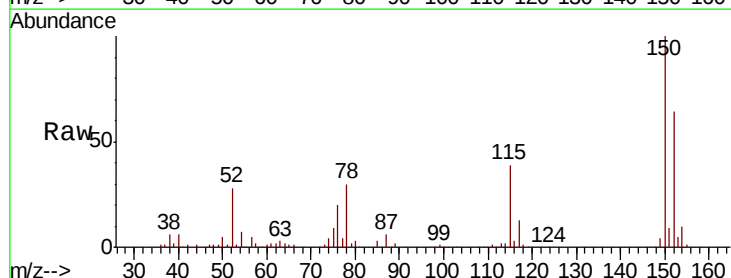
Tgt Ion:152 Resp: 68421

Ion Ratio Lower Upper

152 100

115 60.3 44.9 134.5

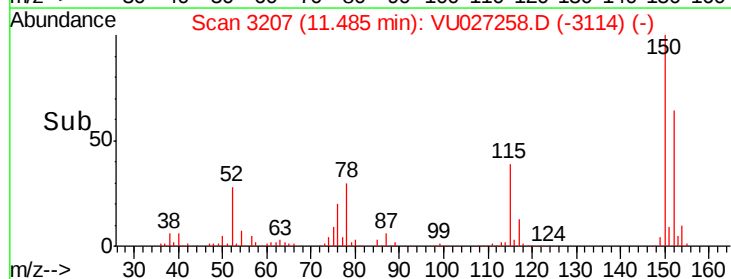
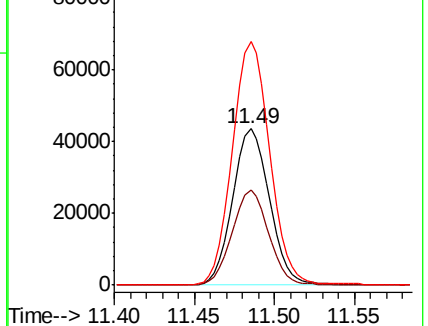
150 158.3 0.0 355.8

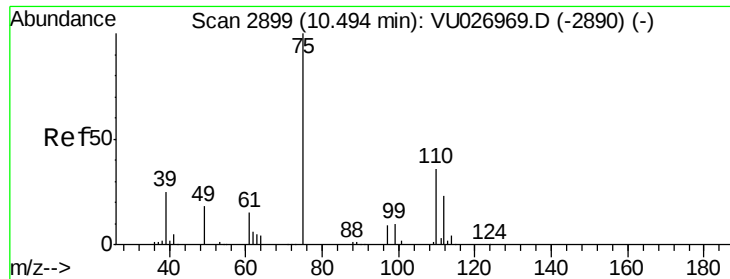


Abundance Ion 151.90 (151.60 to 152.60): V

Ion 114.90 (114.60 to 115.60): V

Ion 149.90 (149.60 to 150.60): V

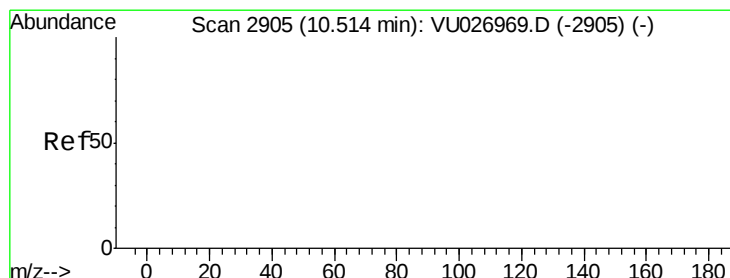
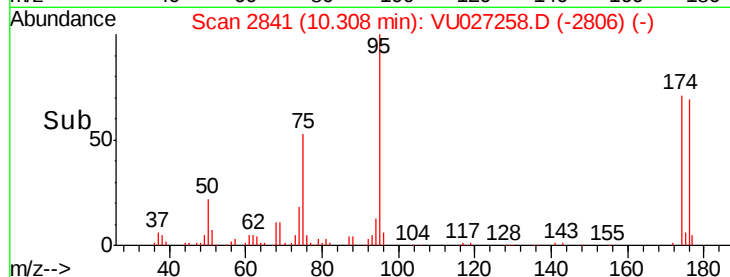
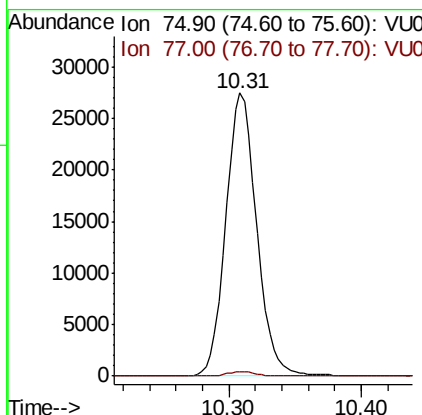
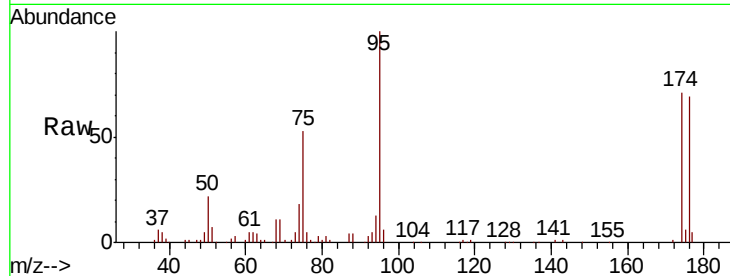




#76
 1,2,3-Trichloropropane
 Concen: 21.357 ug/l
 RT: 10.31 min Scan# 2841
 Delta R.T. -0.19 min
 Lab File: VU027258.D
 Acq: 28 Sep 2018 10:02

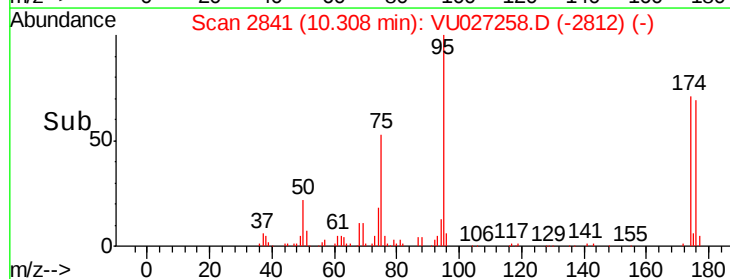
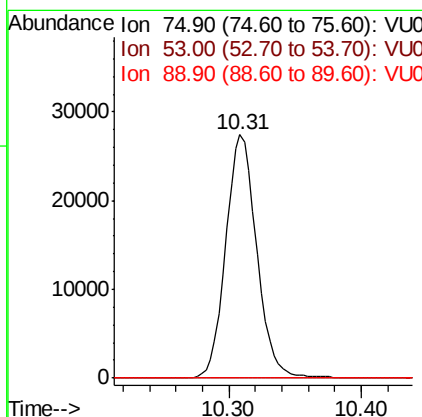
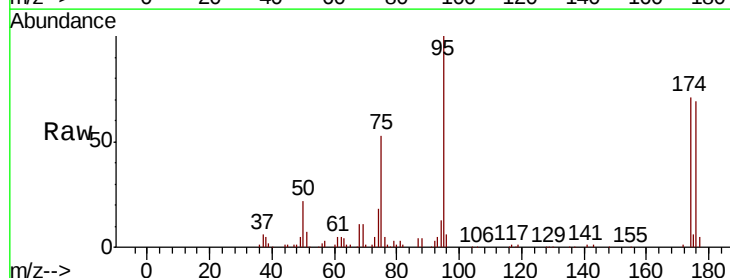
Instrument :
 MSVOA_U
 ClientSampled :
 MH-8

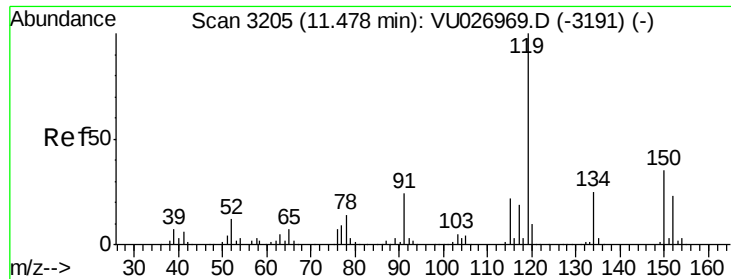
Tot Ion: 75 Resp: 44393
 Ion Ratio Lower Upper
 75 100
 77 1.3 20.9 62.8#



#81
 trans-1,4-Dichloro-2-butene
 Concen: 68.346 ug/l
 RT: 10.31 min Scan# 2841
 Delta R.T. -0.21 min
 Lab File: VU027258.D
 Acq: 28 Sep 2018 10:02

Tgt Ion: 75 Resp: 44393
 Ion Ratio Lower Upper
 75 100
 53 0.0 0.0 0.0
 89 0.0 0.0 0.0

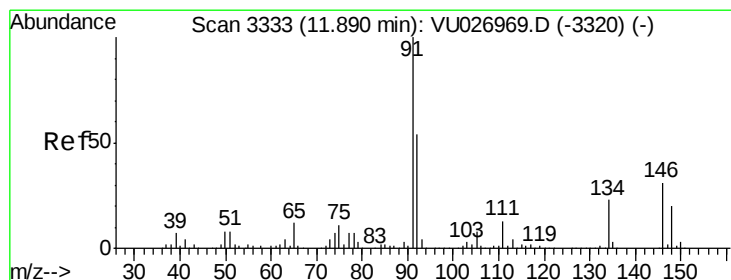
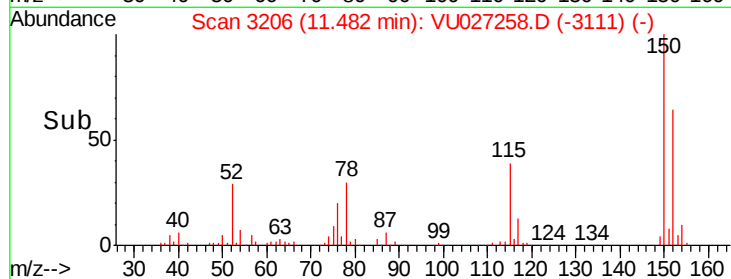
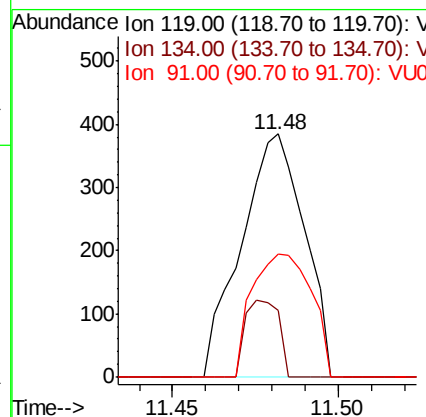
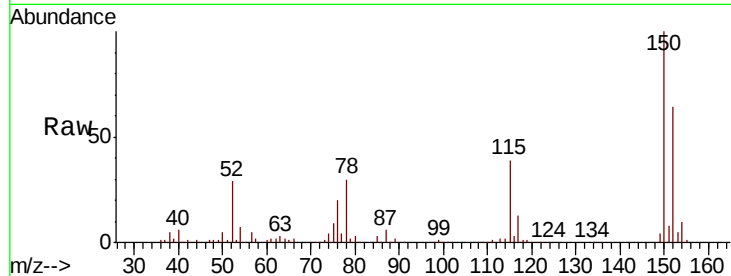




#86
 p-Isopropyltoluene
 Concen: 1.030 ug/l
 RT: 11.48 min Scan# 3206
 Delta R.T. 0.00 min
 Lab File: VU027258.D
 Acq: 28 Sep 2018 10:02

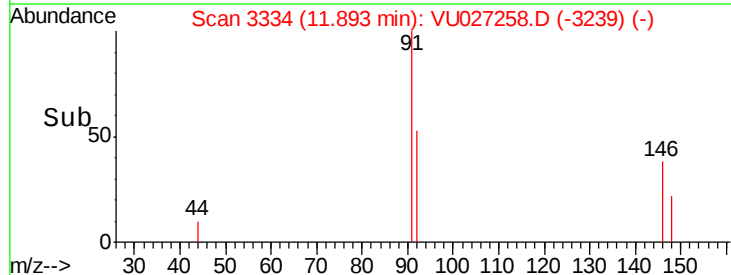
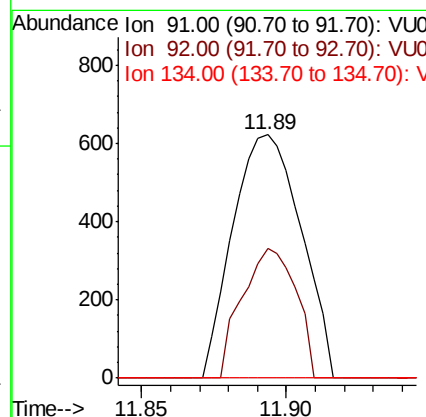
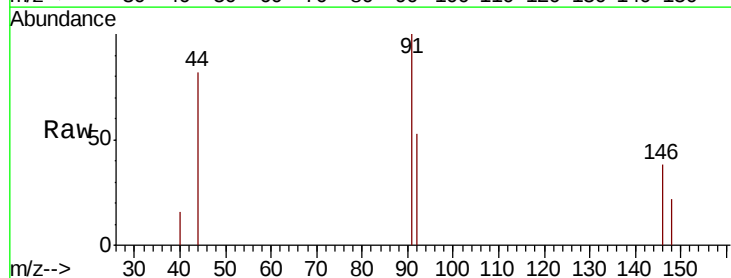
Instrument :
 MSVOA_U
 ClientSampled :
 MH-8

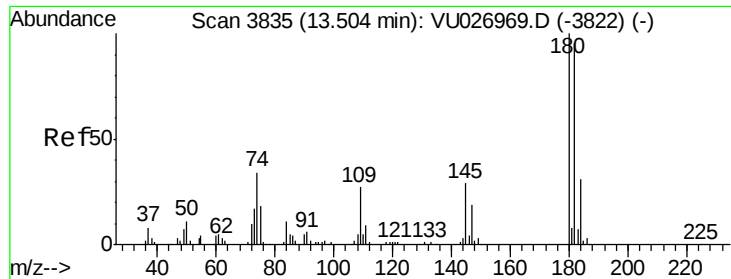
Tot Ion	Ratio	Lower	Upper
119	100		
134	16.9	12.8	38.3
91	47.6	12.3	36.8



#89
 n-Butylbenzene
 Concen: 2.598 ug/l
 RT: 11.89 min Scan# 3334
 Delta R.T. 0.00 min
 Lab File: VU027258.D
 Acq: 28 Sep 2018 10:02

Tgt Ion	Ratio	Lower	Upper
91	100		
92	41.8	27.1	81.2
134	0.0	11.7	35.0

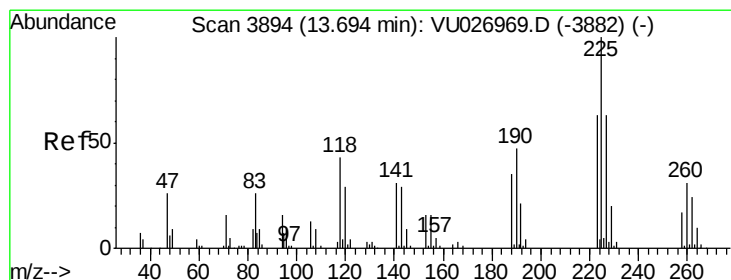
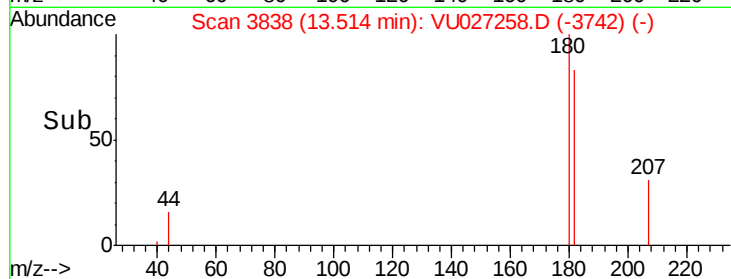
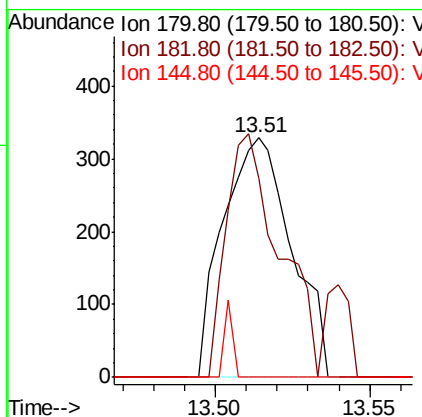
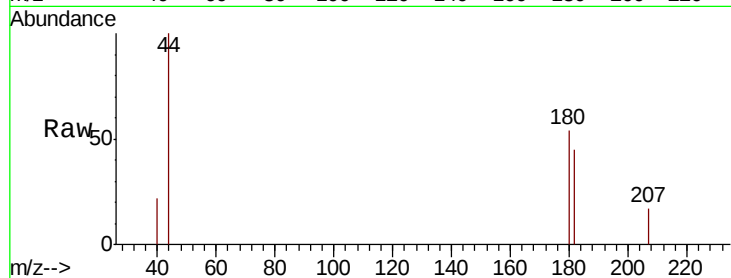




#93
 1,2,4-Trichlorobenzene
 Concen: 0.351 ug/l
 RT: 13.51 min Scan# 3838
 Delta R.T. 0.01 min
 Lab File: VU027258.D
 Acq: 28 Sep 2018 10:02

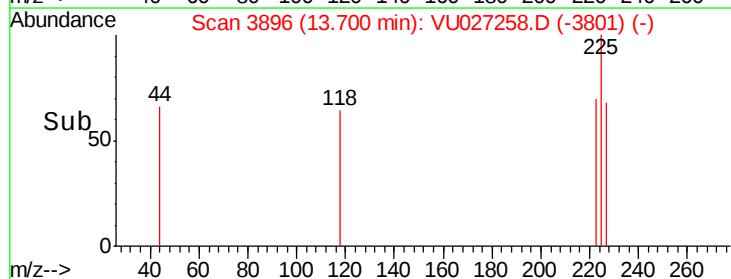
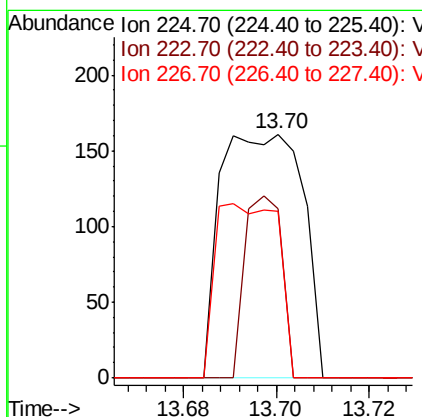
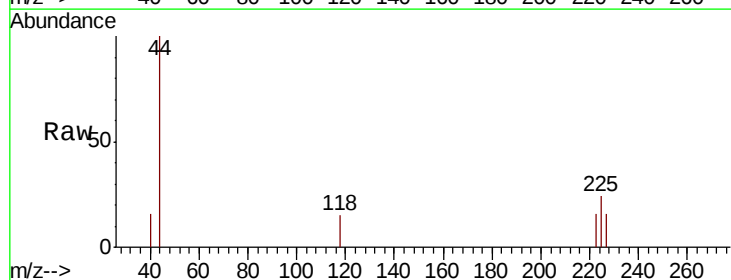
Instrument :
 MSVOA_U
 ClientSampleId :
 MH-8

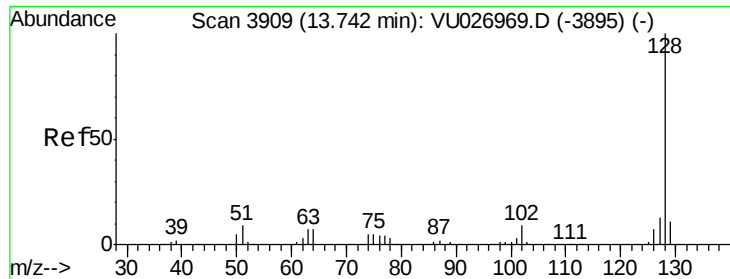
Tot Ion:180 Resp: 509
 Ion Ratio Lower Upper
 180 100
 182 79.2 47.4 142.2
 145 3.9 14.9 44.5#



#94
 Hexachlorobutadiene
 Concen: 0.258 ug/l
 RT: 13.70 min Scan# 3896
 Delta R.T. 0.01 min
 Lab File: VU027258.D
 Acq: 28 Sep 2018 10:02

Tgt Ion:225 Resp: 198
 Ion Ratio Lower Upper
 225 100
 223 33.3 31.9 95.7
 227 54.0 32.1 96.5

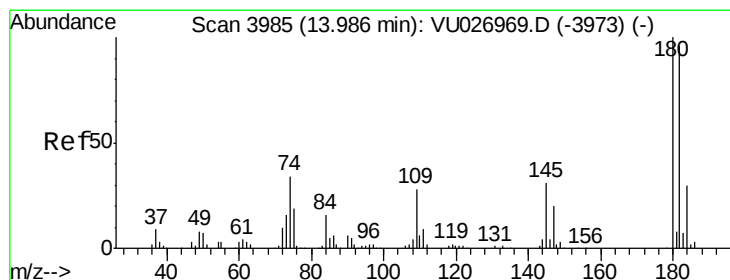
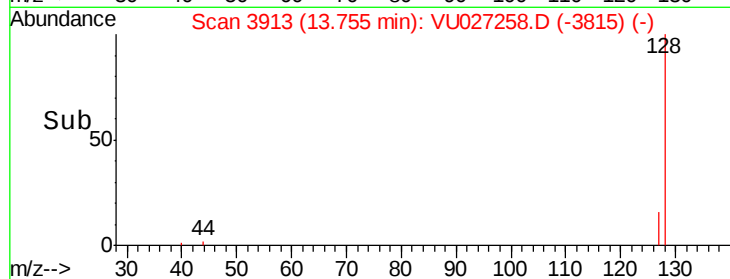
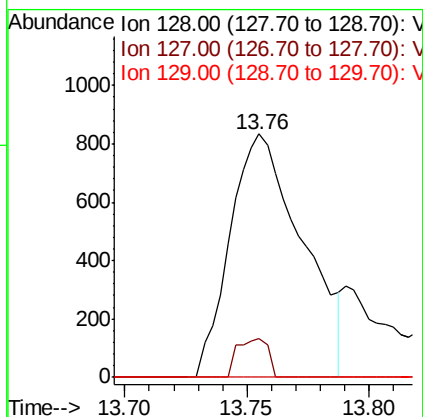
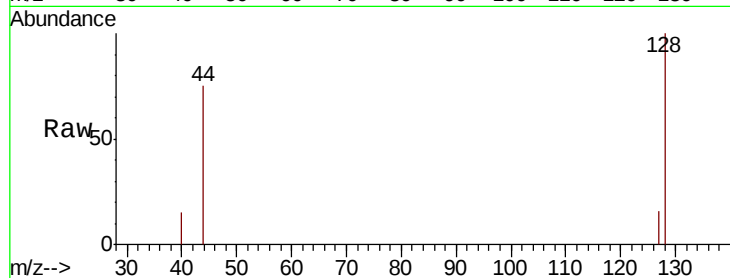




#95
Naphthalene
Concen: 1.982 ug/l
RT: 13.76 min Scan# 3913
Delta R.T. 0.01 min
Lab File: VU027258.D
Acq: 28 Sep 2018 10:02

Instrument :
MSVOA_U
ClientSampled :
MH-8

Tot Ion:128 Resp: 1717
Ion Ratio Lower Upper
128 100
127 6.6 10.6 15.8#
129 0.0 8.6 12.8#



#96
1,2,3-Trichlorobenzene
Concen: 0.356 ug/l
RT: 14.00 min Scan# 3988
Delta R.T. 0.01 min
Lab File: VU027258.D
Acq: 28 Sep 2018 10:02

Tgt Ion:180 Resp: 553
Ion Ratio Lower Upper
180 100
182 96.4 47.5 142.5
145 0.0 15.4 46.4#

