

Data Path : Z:\VOASRV\HPCHEM1\MSVOA U\DATA\VU100118\
 Data File : VU027325.D
 Acq On : 01 Oct 2018 17:59
 Operator : MD/SY
 Sample : J5172-25
 Misc : 5.0mL/MSVOA U/WATER
 ALS Vial : 17 Sample Multiplier: 1

Instrument :
 MSVOA_U
 ClientSampleId :
 STORAGE-BLANK-SOIL-REF-6

Quant Time: Oct 02 07:23:52 2018
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_U\METHOD\82U100118W.M
 Quant Title : SW846 8260
 QLast Update : Tue Oct 02 02:04:34 2018
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	4.99	168	103797	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	5.89	114	177008	50.00	ug/l	0.00
63) Chlorobenzene-d5	9.09	117	163650	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	11.48	152	74879	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	98960	57.10	ug/l	0.00
Spiked Amount			Recovery	=	114.20%	
35) Dibromofluoromethane	4.88	113	70861	58.41	ug/l	0.00
Spiked Amount			Recovery	=	116.82%	
50) Toluene-d8	7.57	98	266783	58.76	ug/l	0.00
Spiked Amount			Recovery	=	117.52%	
62) 4-Bromofluorobenzene	10.31	95	89967	53.32	ug/l	0.00
Spiked Amount			Recovery	=	106.64%	

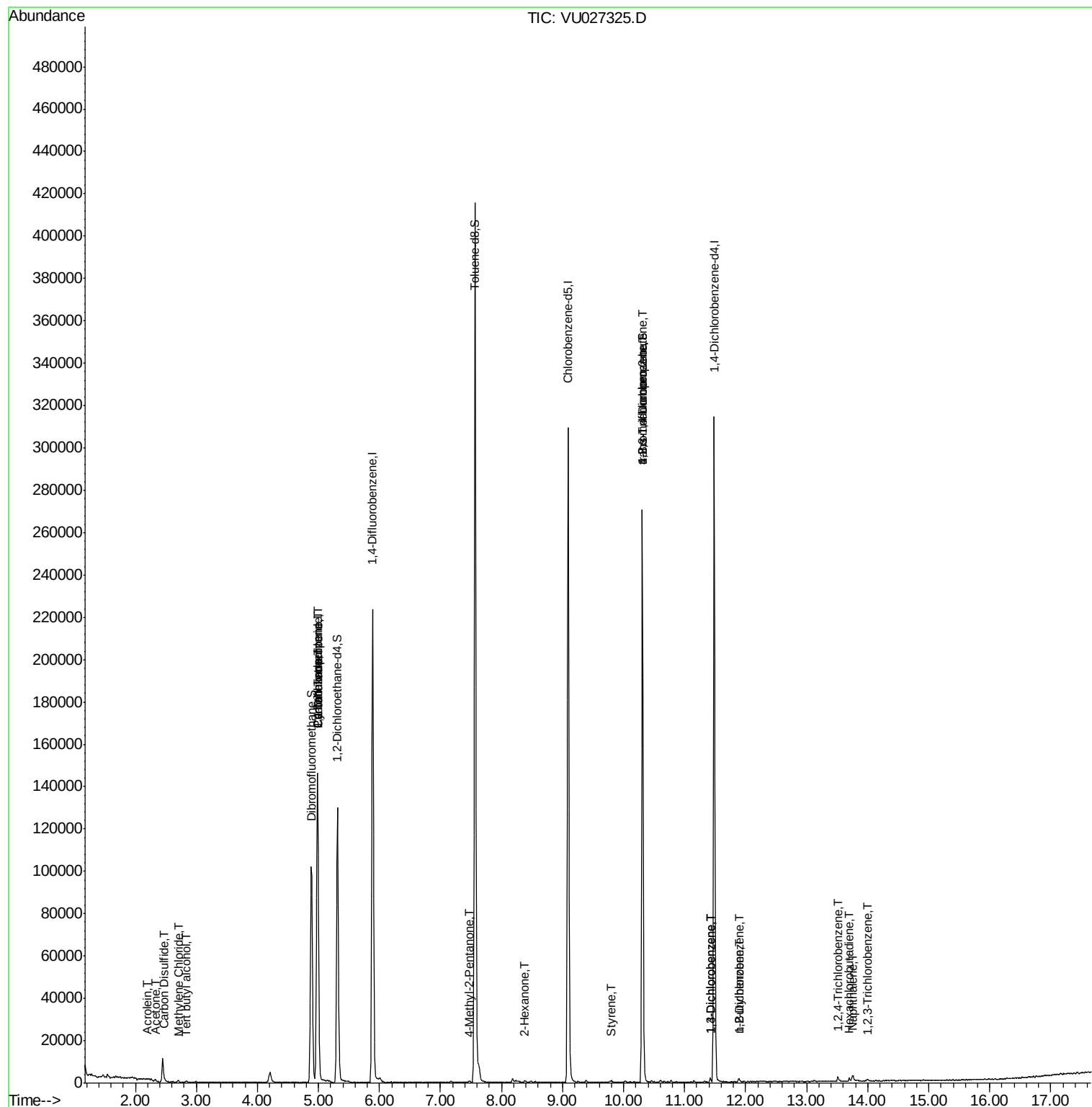
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
11) Tert butyl alcohol	2.84	59	354	0.970	ug/l #	72
13) Acrolein	2.20	56	100	0.327	ug/l #	63
16) Acetone	2.33	43	1190	1.162	ug/l #	88
17) Carbon Disulfide	2.48	76	1106	0.280	ug/l #	75
20) Methylene Chloride	2.71	84	372	0.261	ug/l #	66
31) Cyclohexane	4.99	56	2653	0.720	ug/l #	1
36) 1,1-Dichloropropene	4.98	75	9468	4.926	ug/l #	50
38) Carbon Tetrachloride	4.98	117	10602	6.107	ug/l #	18
51) 4-Methyl-2-Pentanone	7.47	43	718	0.286	ug/l #	84
59) 2-Hexanone	8.38	43	806	0.414	ug/l	71
70) Styrene	9.80	104	594	2.442	ug/l #	53
76) 1,2,3-Trichloropropane	10.31	75	48795	25.139	ug/l #	37
81) trans-1,4-Dichloro-2-buten	10.31	75	48795	65.790	ug/l #	100
87) 1,3-Dichlorobenzene	11.42	146	958	0.400	ug/l	89
88) 1,4-Dichlorobenzene	11.42	146	958	0.392	ug/l	89
89) n-Butylbenzene	11.89	91	1047	2.155	ug/l #	64
91) 1,2-Dichlorobenzene	11.88	146	533	0.229	ug/l	82
93) 1,2,4-Trichlorobenzene	13.51	180	1160	0.770	ug/l	94
94) Hexachlorobutadiene	13.69	225	502	0.659	ug/l	93
95) Naphthalene	13.76	128	3654	2.284	ug/l #	88
96) 1,2,3-Trichlorobenzene	13.99	180	583	0.371	ug/l #	91

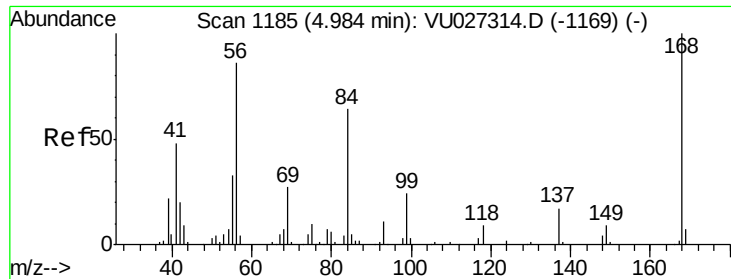
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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QLast Update : Tue Oct 02 02:04:34 2018
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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: VU027325.D

Acq: 01 Oct 2018 17:59

Instrument :

MSVOA_U

ClientSampleId :

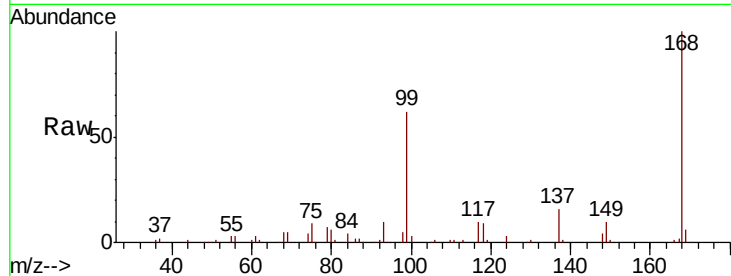
STORAGE-BLANK-SOIL-REF-6

Tot Ion:168 Resp: 103797

Ion Ratio Lower Upper

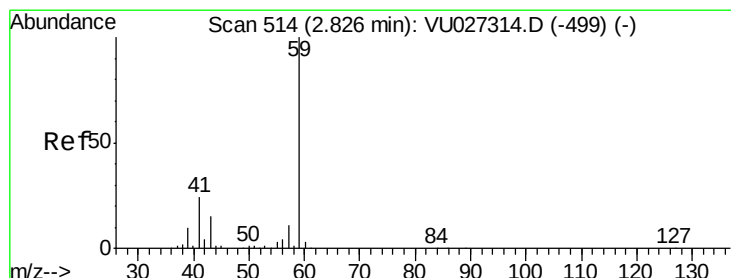
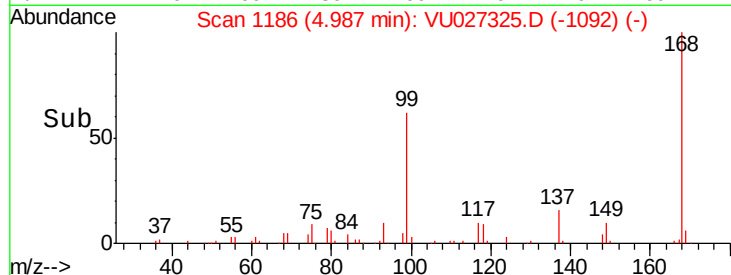
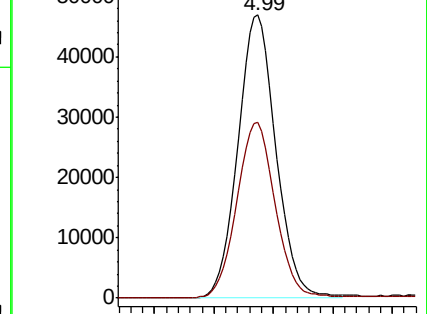
168 100

99 62.3 50.8 76.2



Abundance Ion 167.90 (167.60 to 168.60): VU027314.D (-1169) (-)

Ion 98.90 (98.60 to 99.60): VU027325.D (-1092) (-)



#11

Tert butyl alcohol

Concen: 0.970 ug/l

RT: 2.84 min Scan# 517

Delta R.T. 0.01 min

Lab File: VU027325.D

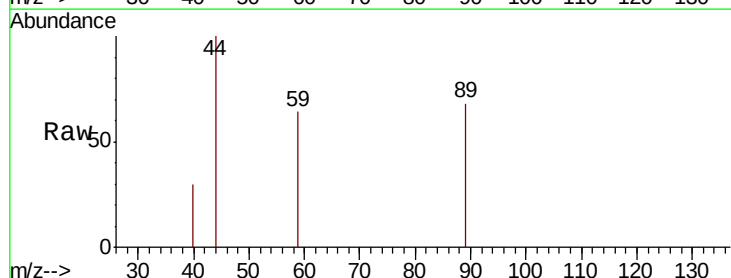
Acq: 01 Oct 2018 17:59

Tgt Ion: 59 Resp: 354

Ion Ratio Lower Upper

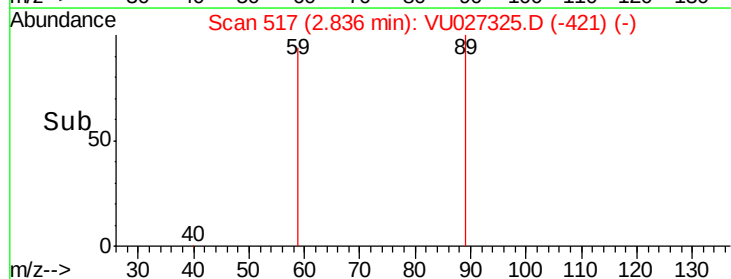
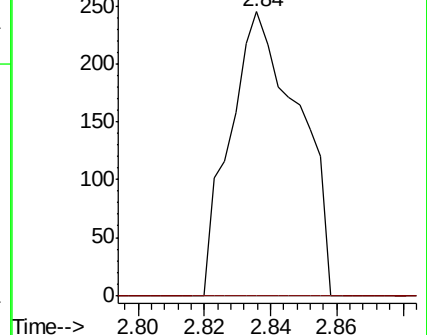
59 100

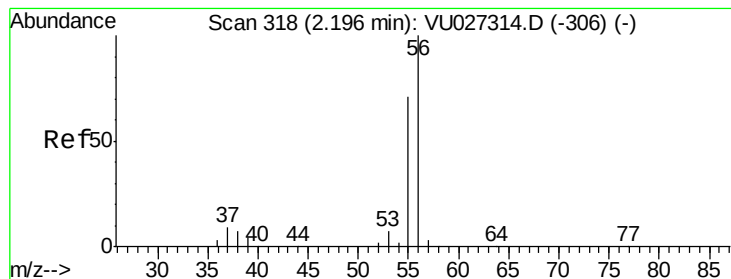
57 0.0 8.4 12.6#



Abundance Ion 59.00 (58.70 to 59.70): VU027314.D (-499) (-)

Ion 57.00 (56.70 to 57.70): VU027325.D (-421) (-)





#13

Acrolein

Concen: 0.327 ug/l

RT: 2.20 min Scan# 319

Delta R.T. 0.00 min

Lab File: VU027325.D

Acq: 01 Oct 2018 17:59

Instrument :

MSVOA_U

ClientSampleId :

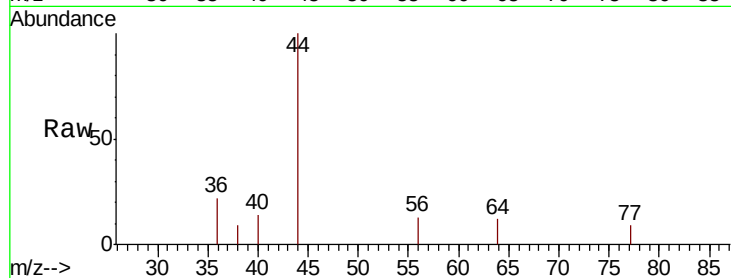
STORAGE-BLANK-SOIL-REF-6

Tot Ion: 56 Resp: 100

Ion Ratio Lower Upper

56 100

55 41.0 57.7 86.5#



Abundance Ion 56.00 (55.70 to 56.70): VU0

Ion 55.00 (54.70 to 55.70): VU0

2.20

150

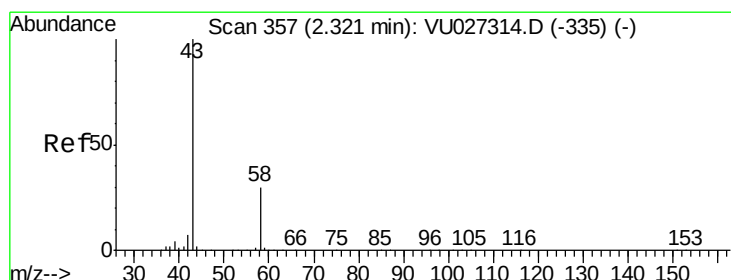
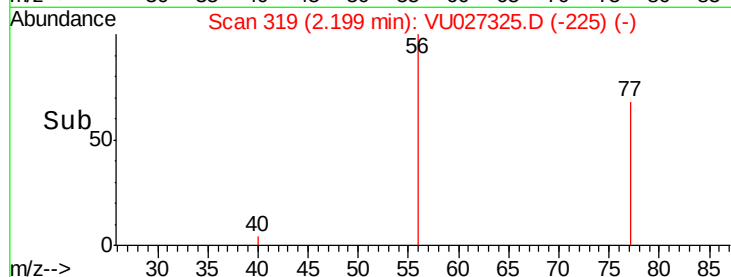
100

50

0

2.18 2.19 2.20 2.21

Time-->



#16

Acetone

Concen: 1.162 ug/l

RT: 2.33 min Scan# 359

Delta R.T. 0.01 min

Lab File: VU027325.D

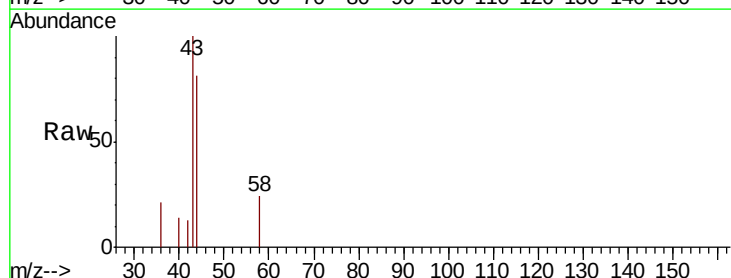
Acq: 01 Oct 2018 17:59

Tgt Ion: 43 Resp: 1190

Ion Ratio Lower Upper

43 100

58 23.9 24.2 36.4#



Abundance Ion 43.00 (42.70 to 43.70): VU0

Ion 58.00 (57.70 to 58.70): VU0

2.33

800

600

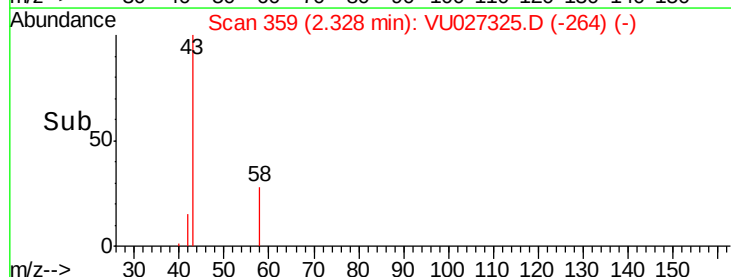
400

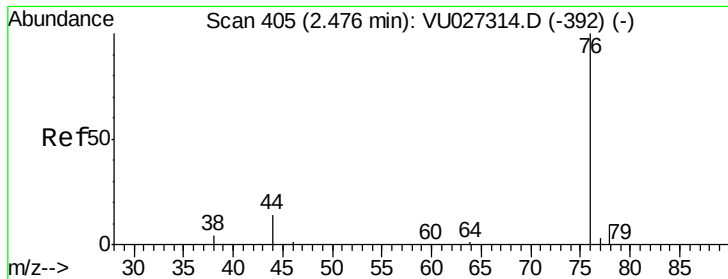
200

0

2.30 2.35

Time-->

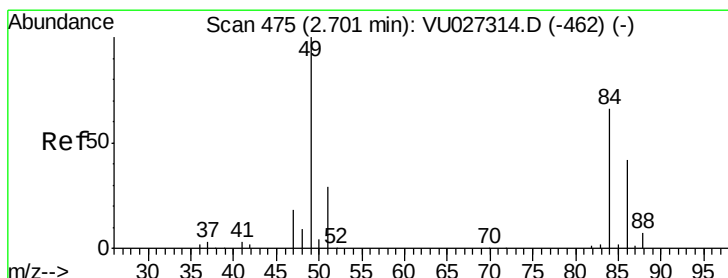
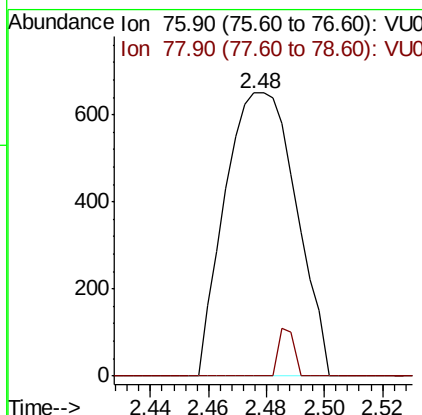
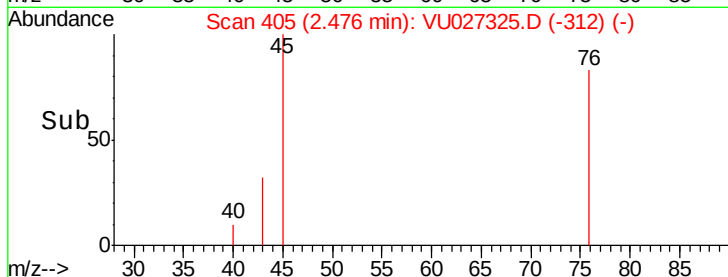
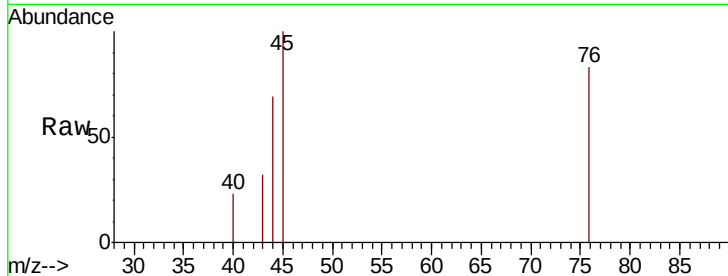




#17
Carbon Disulfide
Concen: 0.280 ug/l
RT: 2.48 min Scan# 405
Delta R.T. 0.00 min
Lab File: VU027325.D
Acq: 01 Oct 2018 17:59

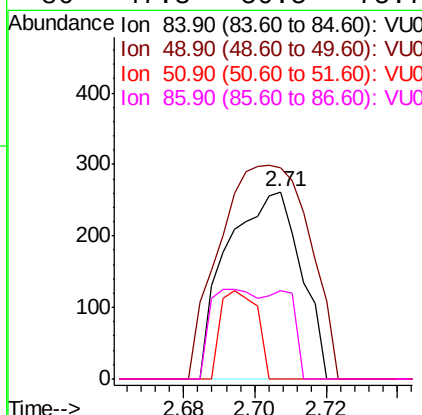
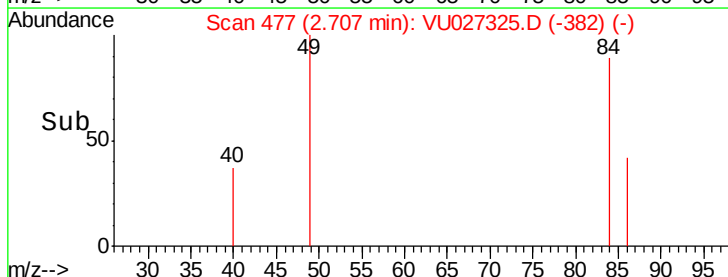
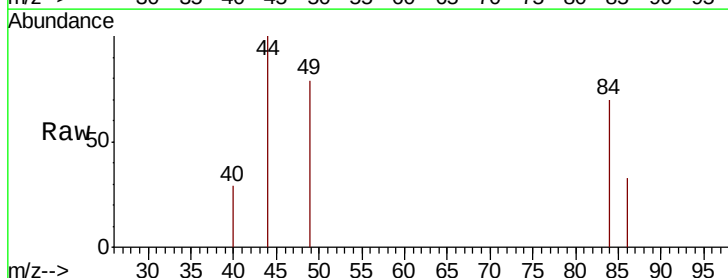
Instrument :
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STORAGE-BLANK-SOIL-REF-6

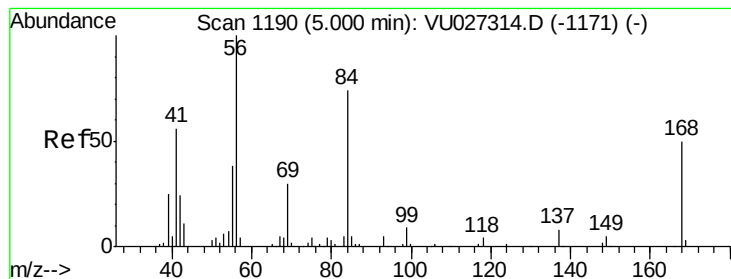
Tot Ion: 76 Resp: 1106
Ion Ratio Lower Upper
76 100
78 0.0 7.3 10.9#



#20
Methylene Chloride
Concen: 0.261 ug/l
RT: 2.71 min Scan# 477
Delta R.T. 0.01 min
Lab File: VU027325.D
Acq: 01 Oct 2018 17:59

Tgt Ion: 84 Resp: 372
Ion Ratio Lower Upper
84 100
49 112.6 120.5 180.7#
51 0.0 35.1 52.7#
86 47.3 50.5 75.7#





#31

Cyclohexane

Concen: 0.720 ug/l

RT: 4.99 min Scan# 1186

Delta R.T. -0.01 min

Lab File: VU027325.D

Acq: 01 Oct 2018 17:59

Instrument :

MSVOA_U

ClientSampleId :

STORAGE-BLANK-SOIL-REF-6

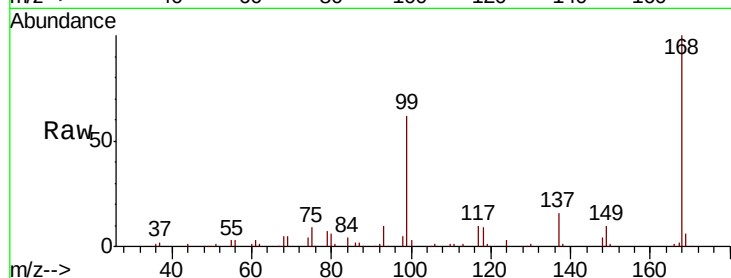
Tot Ion: 56 Resp: 2653

Ion Ratio Lower Upper

56 100

69 166.8 24.1 36.1#

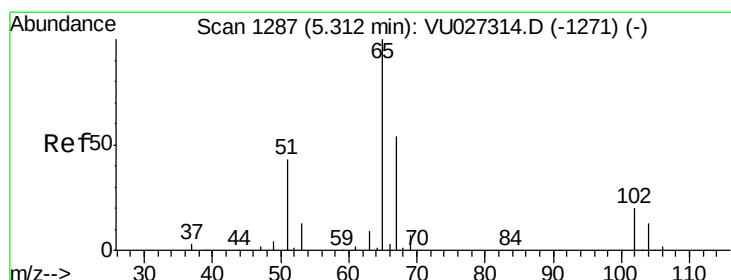
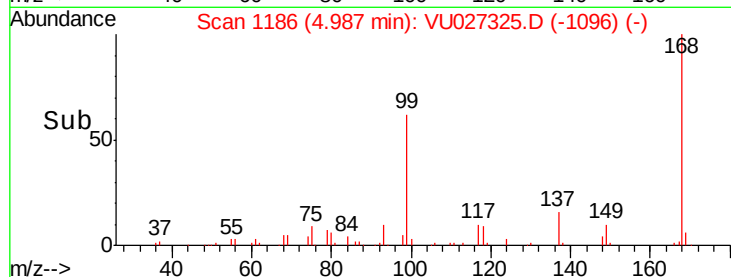
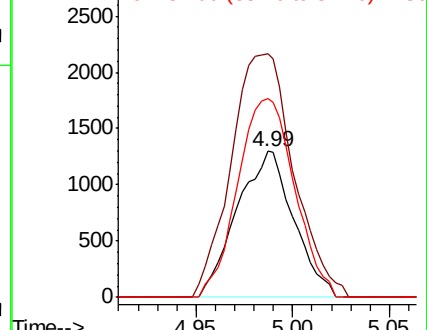
84 136.5 59.1 88.7#



Abundance Ion 56.00 (55.70 to 56.70): VU0

Ion 69.00 (68.70 to 69.70): VU0

Ion 84.00 (83.70 to 84.70): VU0



#33

1,2-Dichloroethane-d4

Concen: 57.096 ug/l

RT: 5.31 min Scan# 1287

Delta R.T. 0.00 min

Lab File: VU027325.D

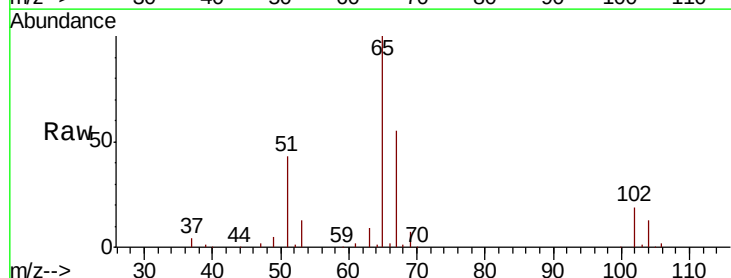
Acq: 01 Oct 2018 17:59

Tgt Ion: 65 Resp: 98960

Ion Ratio Lower Upper

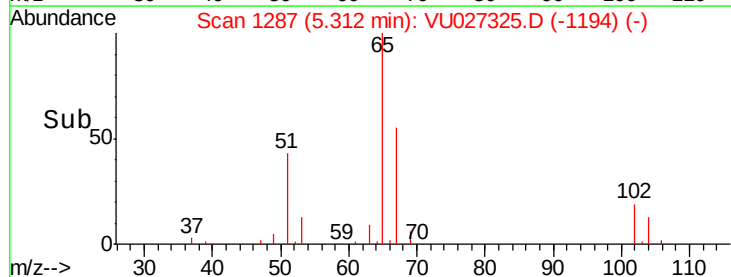
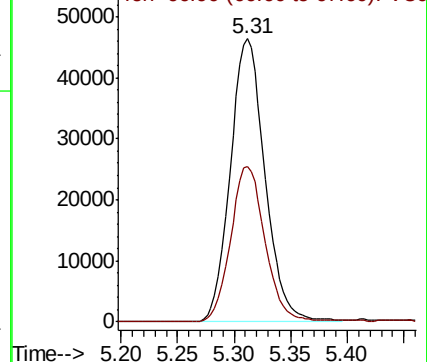
65 100

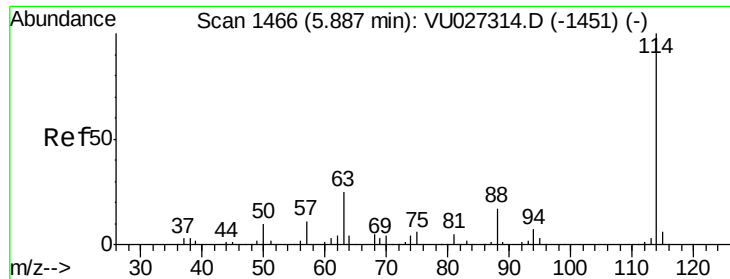
67 54.8 0.0 107.8



Abundance Ion 64.90 (64.60 to 65.60): VU0

Ion 66.90 (66.60 to 67.60): VU0

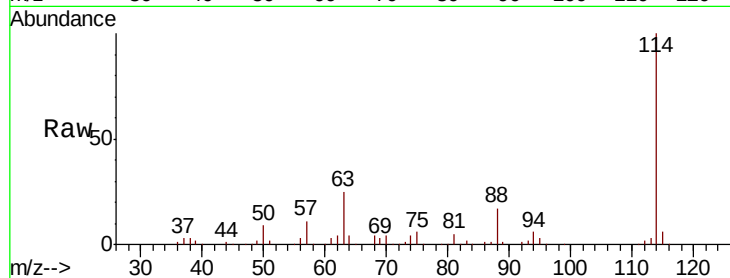




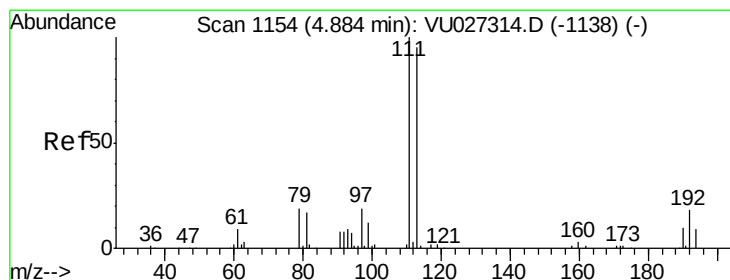
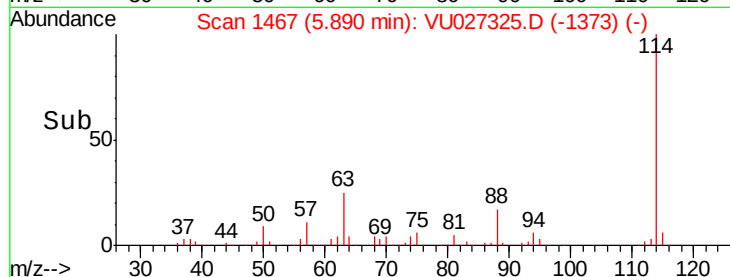
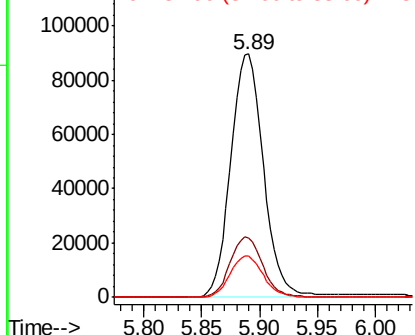
#34
 1,4-Difluorobenzene
 Concen: 50.000 ug/l
 RT: 5.89 min Scan# 1467
 Delta R.T. 0.00 min
 Lab File: VU027325.D
 Acq: 01 Oct 2018 17:59

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Tot Ion:114 Resp: 177008
 Ion Ratio Lower Upper
 114 100
 63 24.6 0.0 50.2
 88 16.9 0.0 33.8

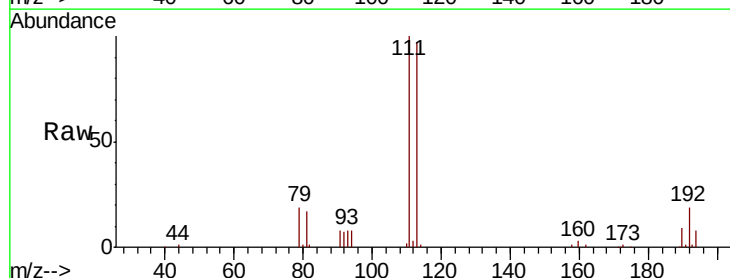


Abundance Ion 113.90 (113.60 to 114.60): V
 Ion 63.00 (62.70 to 63.70): VU0
 Ion 87.90 (87.60 to 88.60): VU0

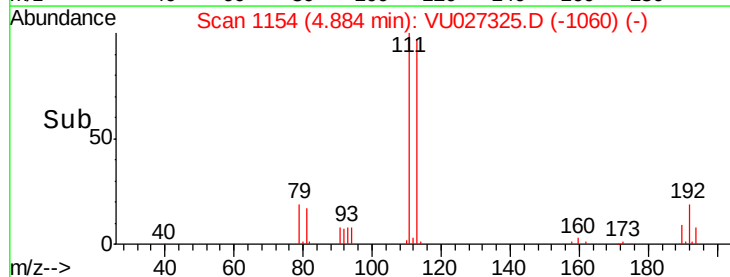
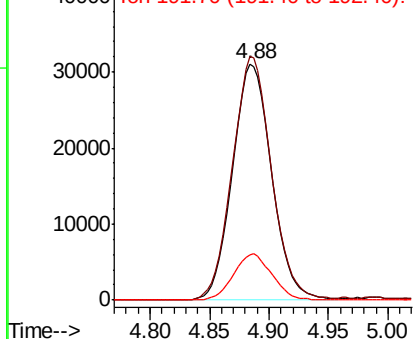


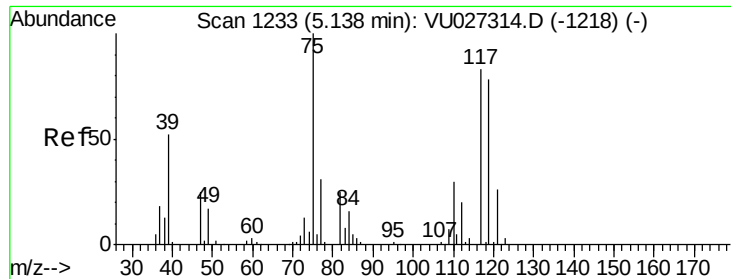
#35
 Dibromofluoromethane
 Concen: 58.414 ug/l
 RT: 4.88 min Scan# 1154
 Delta R.T. 0.00 min
 Lab File: VU027325.D
 Acq: 01 Oct 2018 17:59

Tgt Ion:113 Resp: 70861
 Ion Ratio Lower Upper
 113 100
 111 102.8 83.1 124.7
 192 19.2 15.4 23.0



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: 4.926 ug/l

RT: 4.98 min Scan# 1185

Delta R.T. -0.15 min

Lab File: VU027325.D

Acq: 01 Oct 2018 17:59

Instrument :

MSVOA_U

ClientSampleId :

STORAGE-BLANK-SOIL-REF-6

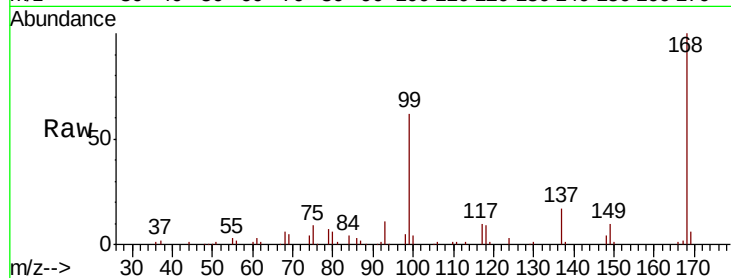
Tot Ion: 75 Resp: 9468

Ion Ratio Lower Upper

75 100

110 7.9 15.5 46.5#

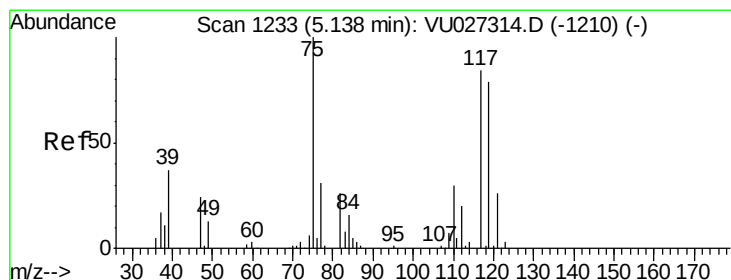
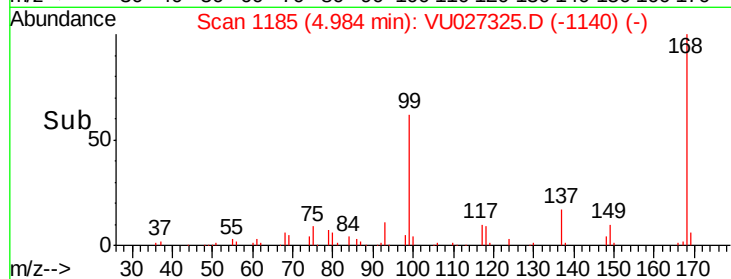
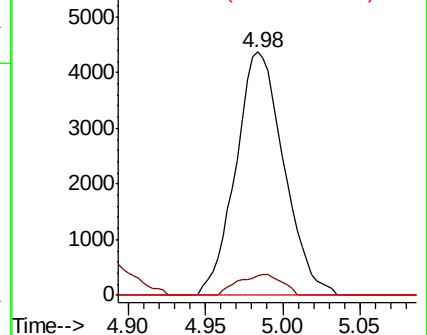
77 0.0 25.4 38.0#



Abundance Ion 74.90 (74.60 to 75.60): VU027314.D (-1218) (-)

Ion 109.90 (109.60 to 110.60): VU027314.D (-1218) (-)

Ion 76.90 (76.60 to 77.60): VU027314.D (-1218) (-)



#38

Carbon Tetrachloride

Concen: 6.107 ug/l

RT: 4.98 min Scan# 1185

Delta R.T. -0.15 min

Lab File: VU027325.D

Acq: 01 Oct 2018 17:59

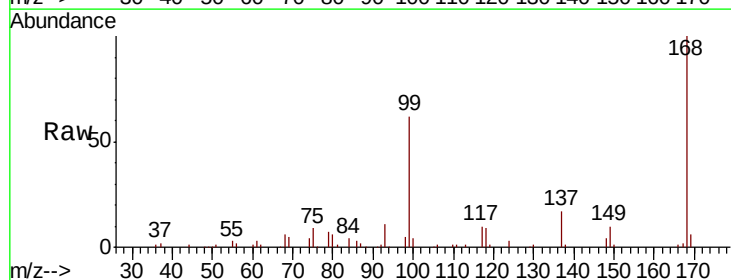
Tgt Ion: 117 Resp: 10602

Ion Ratio Lower Upper

117 100

119 5.9 74.5 111.7#

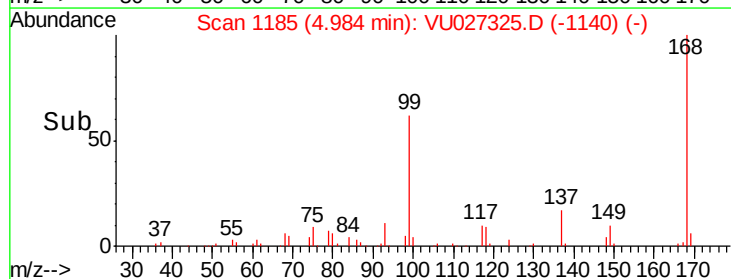
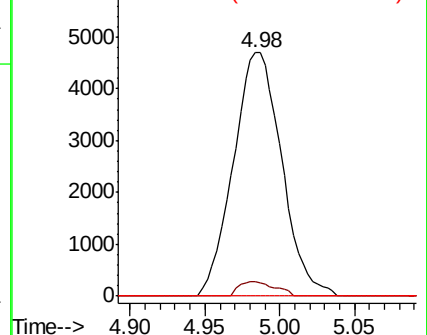
121 0.0 24.6 37.0#

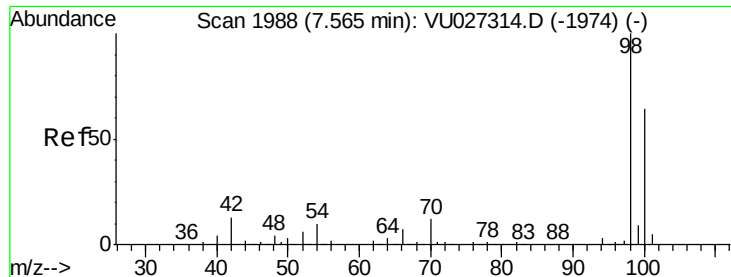


Abundance Ion 116.80 (116.50 to 117.50): VU027314.D (-1210) (-)

Ion 118.80 (118.50 to 119.50): VU027314.D (-1210) (-)

Ion 120.80 (120.50 to 121.50): VU027314.D (-1210) (-)

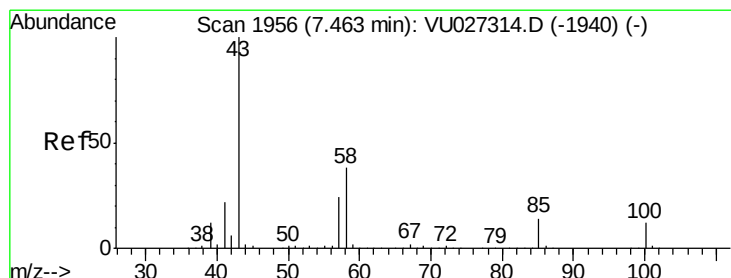
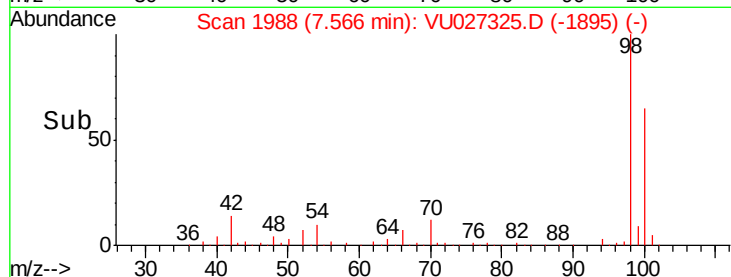
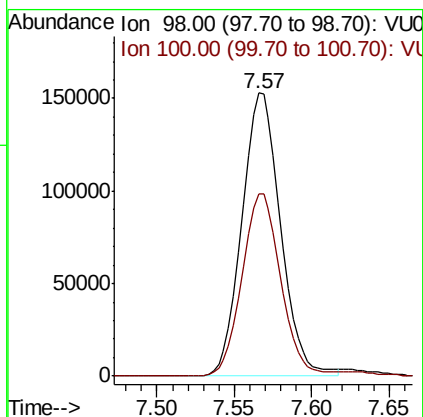
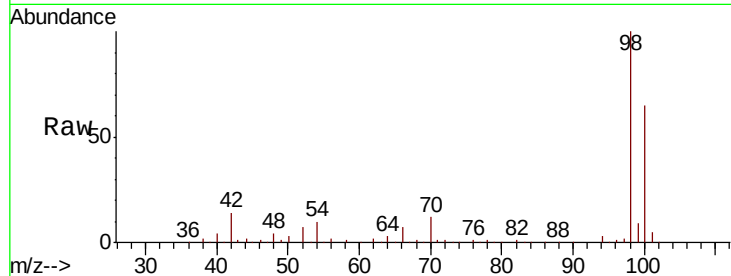




#50
Toluene-d8
Concen: 58.760 ug/l
RT: 7.57 min Scan# 1988
Delta R.T. 0.00 min
Lab File: VU027325.D
Acq: 01 Oct 2018 17:59

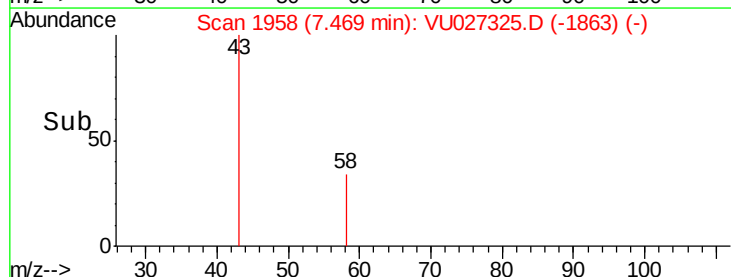
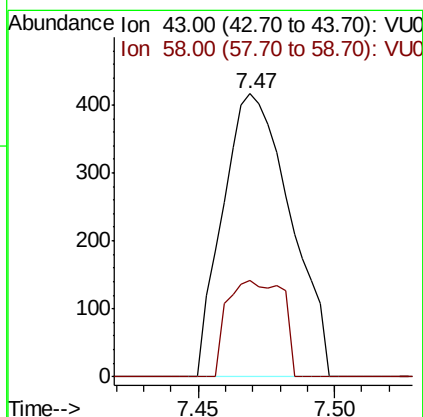
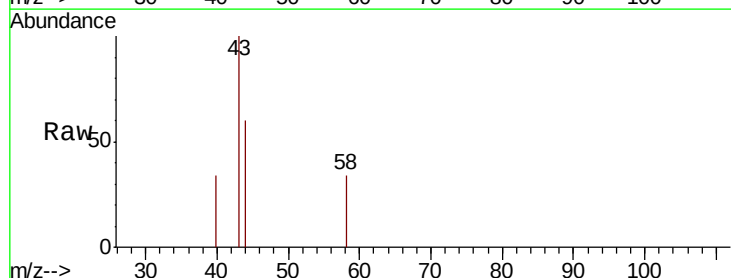
Instrument :
MSVOA_U
ClientSampleId :
STORAGE-BLANK-SOIL-REF-6

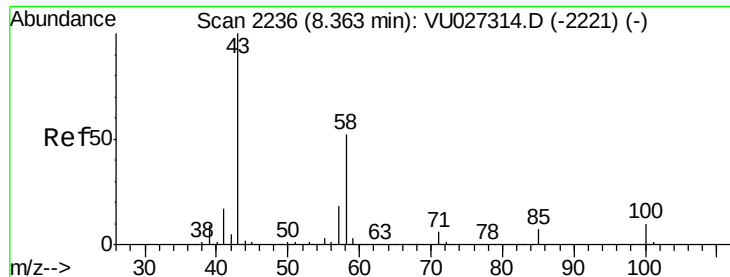
Tot Ion: 98 Resp: 266783
Ion Ratio Lower Upper
98 100
100 64.7 52.1 78.1



#51
4-Methyl-2-Pentanone
Concen: 0.286 ug/l
RT: 7.47 min Scan# 1958
Delta R.T. 0.01 min
Lab File: VU027325.D
Acq: 01 Oct 2018 17:59

Tgt Ion: 43 Resp: 718
Ion Ratio Lower Upper
43 100
58 27.7 29.8 44.8#

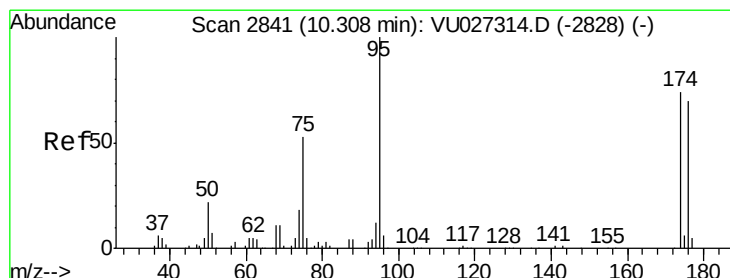
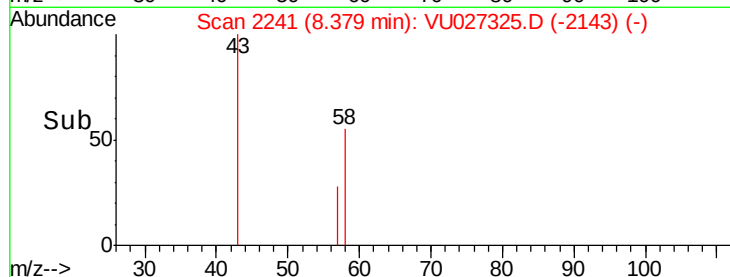
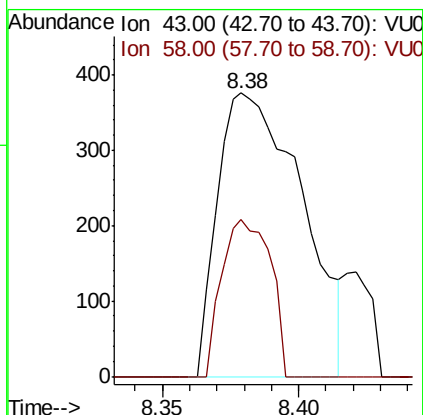
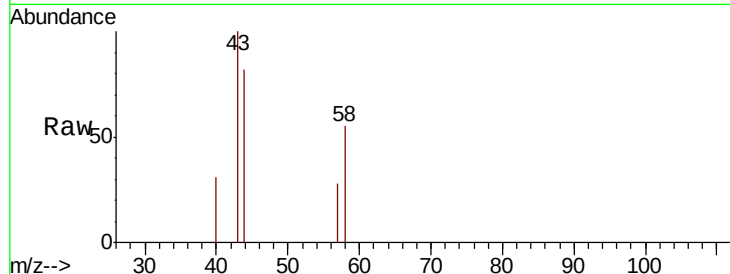




#59
2-Hexanone
Concen: 0.414 ug/l
RT: 8.38 min Scan# 2241
Delta R.T. 0.02 min
Lab File: VU027325.D
Acq: 01 Oct 2018 17:59

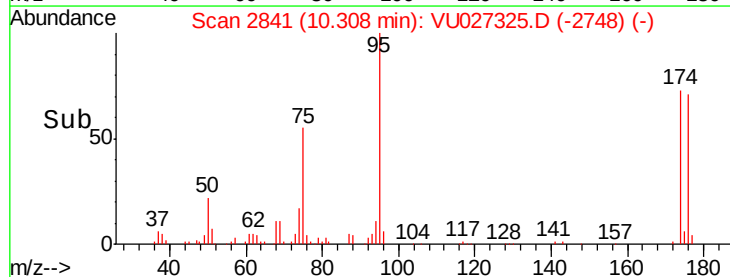
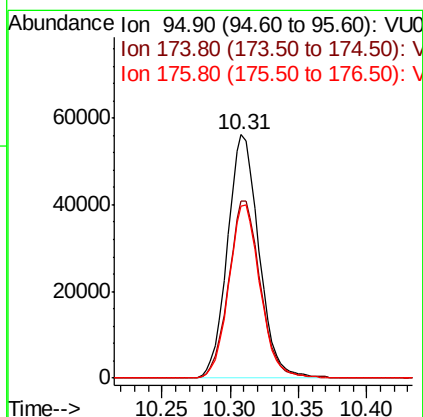
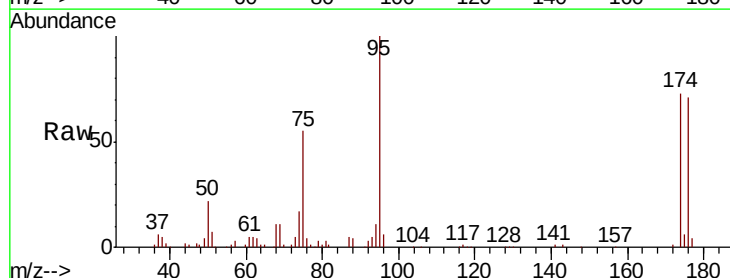
Instrument :
MSVOA_U
ClientSampleId :
STORAGE-BLANK-SOIL-REF-6

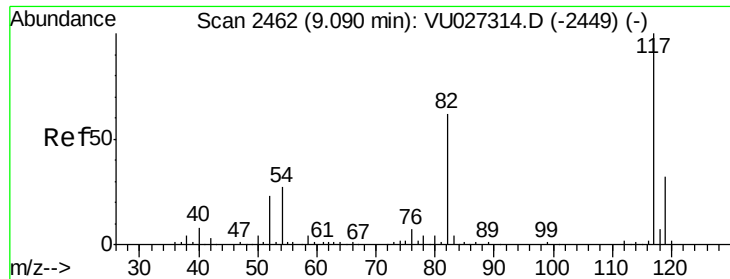
Tot Ion: 43 Resp: 806
Ion Ratio Lower Upper
43 100
58 31.9 26.1 78.3



#62
4-Bromofluorobenzene
Concen: 53.319 ug/l
RT: 10.31 min Scan# 2841
Delta R.T. 0.00 min
Lab File: VU027325.D
Acq: 01 Oct 2018 17:59

Tgt Ion: 95 Resp: 89967
Ion Ratio Lower Upper
95 100
174 73.6 0.0 147.8
176 70.9 0.0 140.8

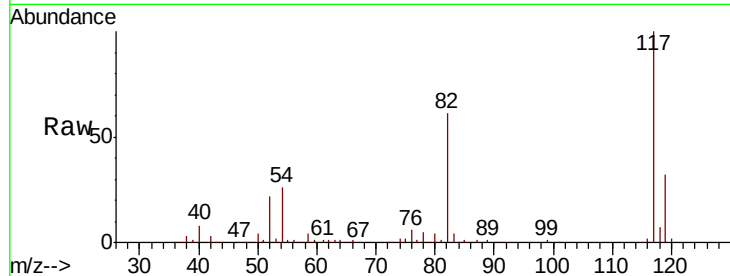




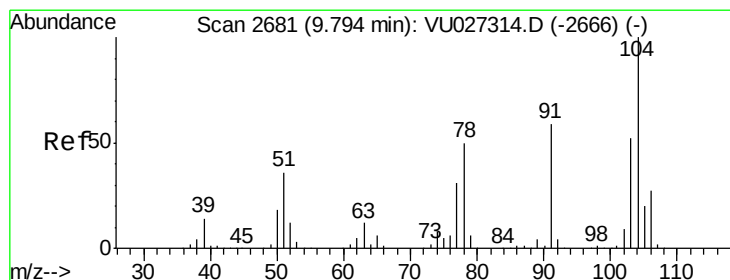
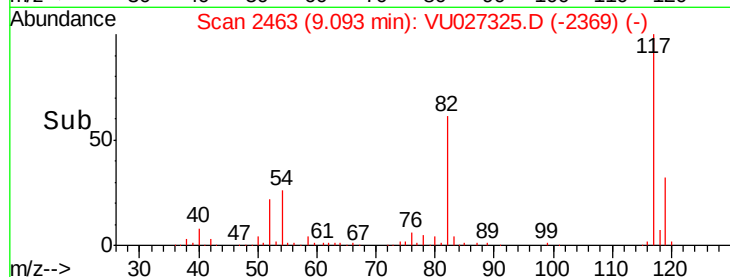
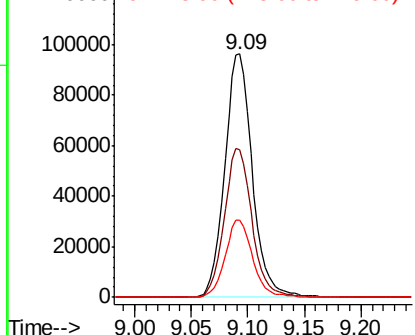
#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 9.09 min Scan# 2463
Delta R.T. 0.00 min
Lab File: VU027325.D
Acq: 01 Oct 2018 17:59

Instrument :
MSVOA_U
ClientSampleId :
STORAGE-BLANK-SOIL-REF-6

Tot Ion:117 Resp: 163650
Ion Ratio Lower Upper
117 100
82 60.5 49.2 73.8
119 31.5 25.7 38.5

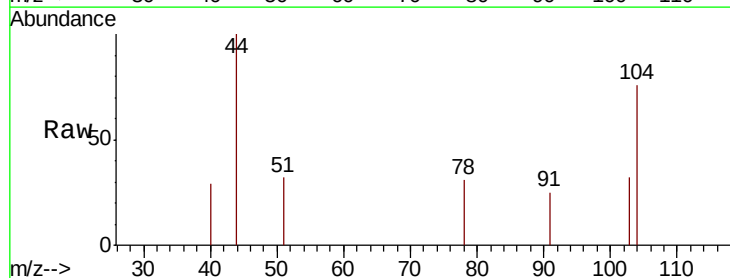


Abundance Ion 116.90 (116.60 to 117.60): V
Ion 82.00 (81.70 to 82.70): VU0
Ion 118.90 (118.60 to 119.60): V

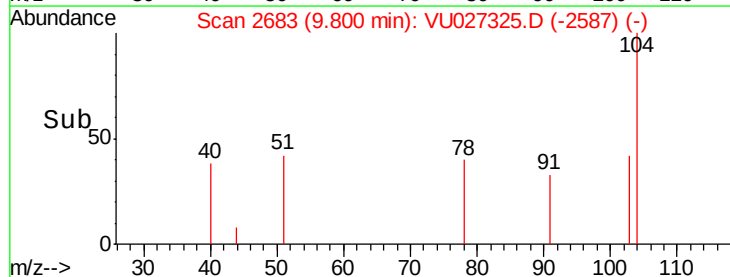
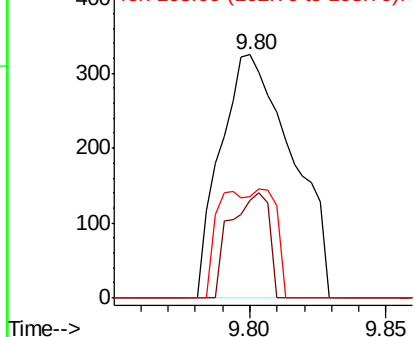


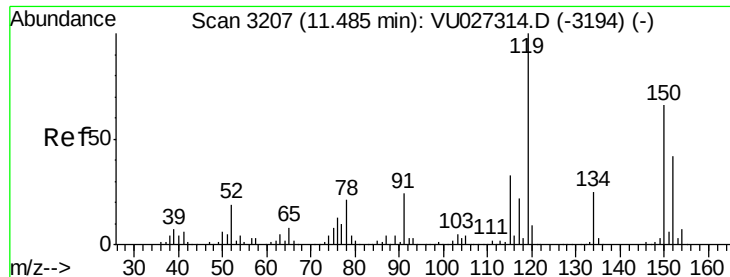
#70
Styrene
Concen: 2.442 ug/l
RT: 9.80 min Scan# 2683
Delta R.T. 0.01 min
Lab File: VU027325.D
Acq: 01 Oct 2018 17:59

Tgt Ion:104 Resp: 594
Ion Ratio Lower Upper
104 100
78 23.2 42.9 64.3#
103 17.2 43.9 65.9#



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



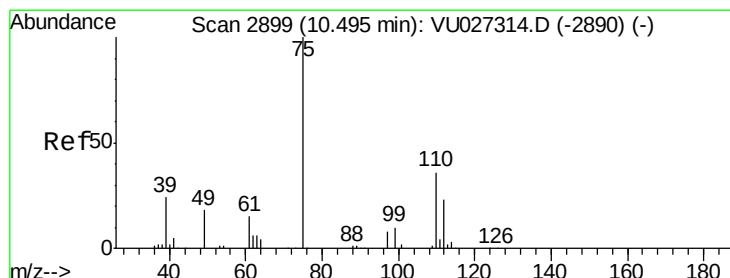
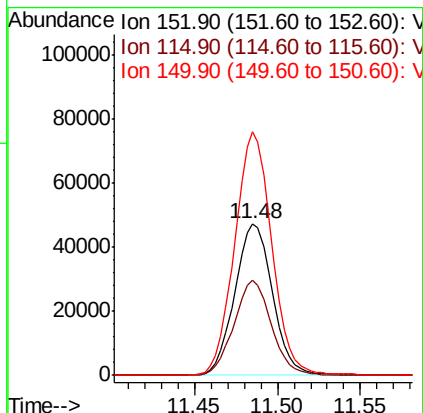
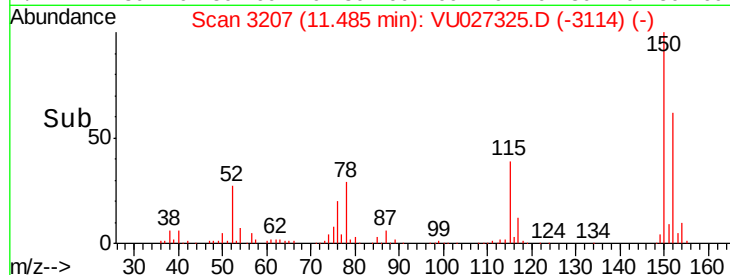
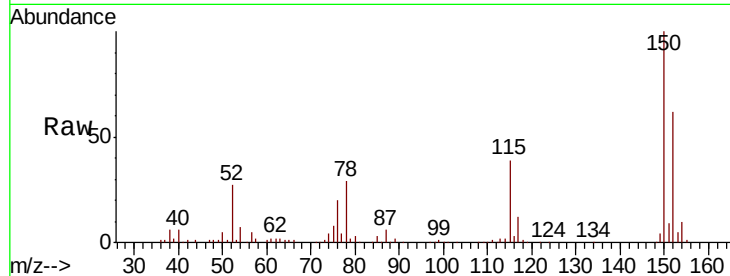


#72

1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 11.48 min Scan# 3207
Delta R.T. 0.00 min
Lab File: VU027325.D
Acq: 01 Oct 2018 17:59

Instrument :
MSVOA_U
ClientSampleId :
STORAGE-BLANK-SOIL-REF-6

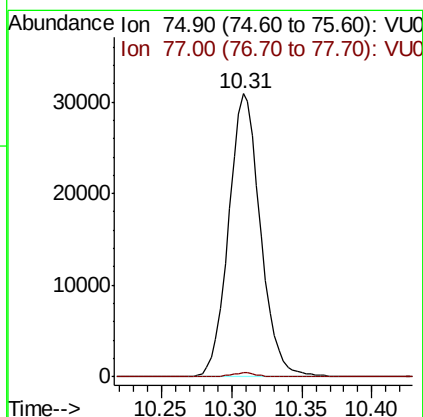
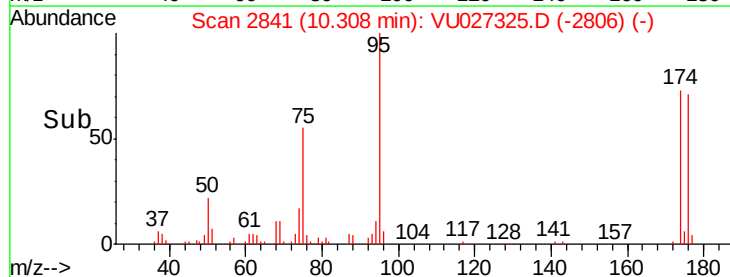
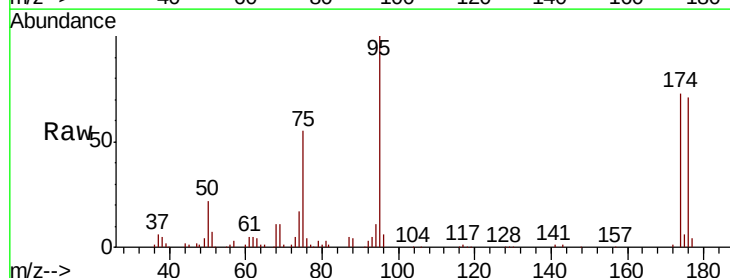
Tot Ion:152 Resp: 74879
Ion Ratio Lower Upper
152 100
115 62.0 43.4 130.2
150 158.3 0.0 349.2

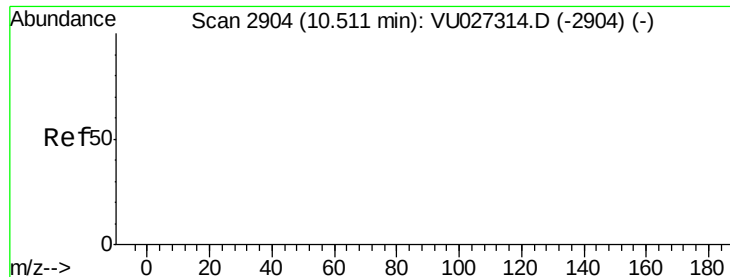


#76

1,2,3-Trichloropropane
Concen: 25.139 ug/l
RT: 10.31 min Scan# 2841
Delta R.T. -0.19 min
Lab File: VU027325.D
Acq: 01 Oct 2018 17:59

Tgt Ion: 75 Resp: 48795
Ion Ratio Lower Upper
75 100
77 1.1 20.3 60.9#

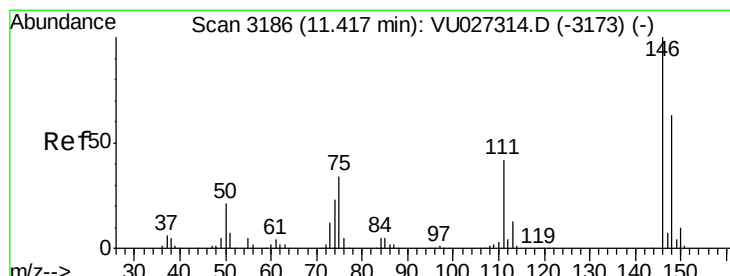
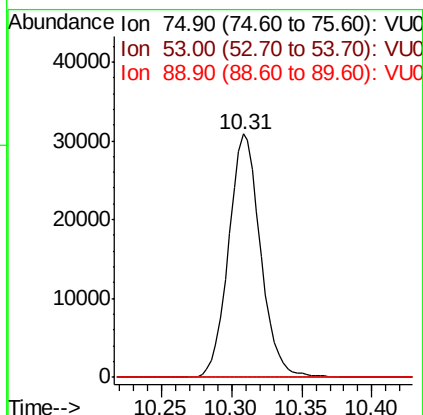
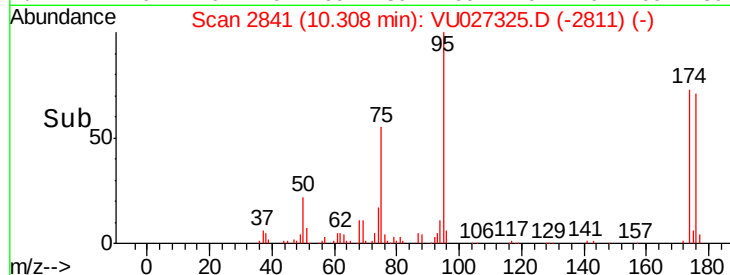
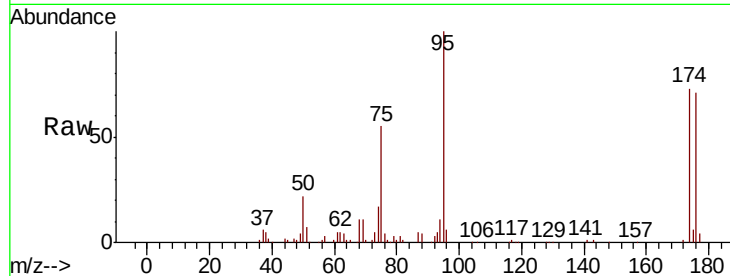




#81
trans-1,4-Dichloro-2-butene
Concen: 65.790 ug/l
RT: 10.31 min Scan# 2841
Delta R.T. -0.20 min
Lab File: VU027325.D
Acq: 01 Oct 2018 17:59

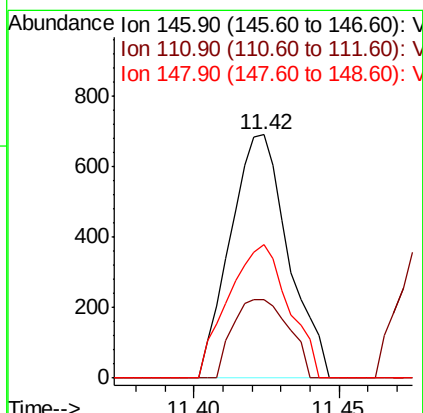
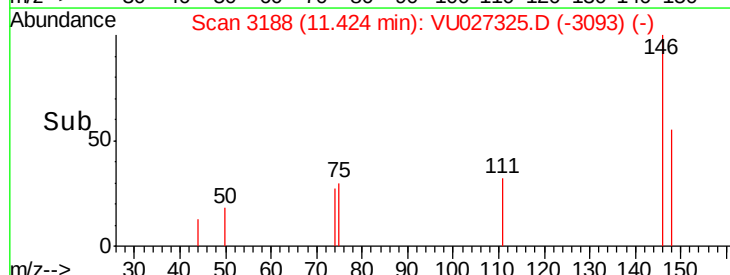
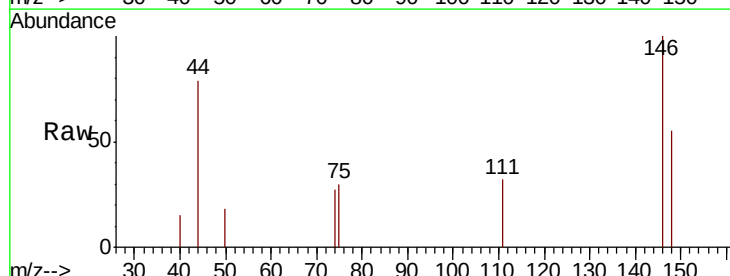
Instrument :
MSVOA_U
ClientSampleId :
STORAGE-BLANK-SOIL-REF-6

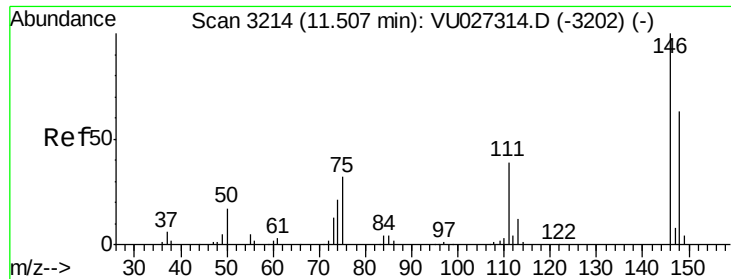
Tot Ion: 75 Resp: 48795
Ion Ratio Lower Upper
75 100
53 0.0 0.0 0.0
89 0.0 0.0 0.0



#87
1,3-Dichlorobenzene
Concen: 0.400 ug/l
RT: 11.42 min Scan# 3188
Delta R.T. 0.01 min
Lab File: VU027325.D
Acq: 01 Oct 2018 17:59

Tgt Ion: 146 Resp: 958
Ion Ratio Lower Upper
146 100
111 31.0 20.8 62.5
148 57.1 31.6 94.8





#88

1,4-Dichlorobenzene

Concen: 0.392 ug/l

RT: 11.42 min Scan# 3188

Delta R.T. -0.08 min

Lab File: VU027325.D

Acq: 01 Oct 2018 17:59

Instrument :

MSVOA_U

ClientSampleId :

STORAGE-BLANK-SOIL-REF-6

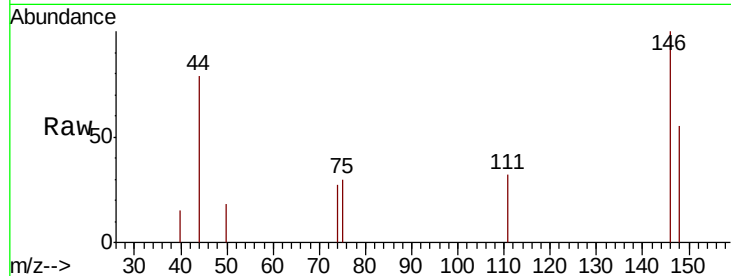
Tot Ion:146 Resp: 958

Ion Ratio Lower Upper

146 100

111 31.0 20.4 61.2

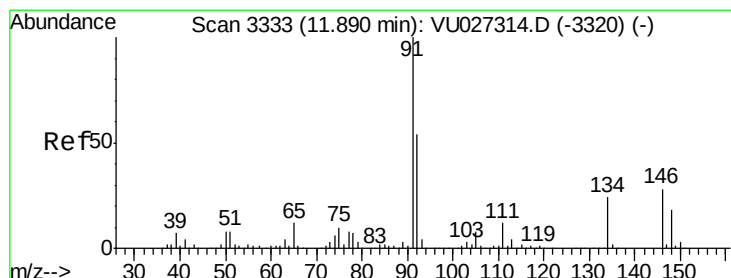
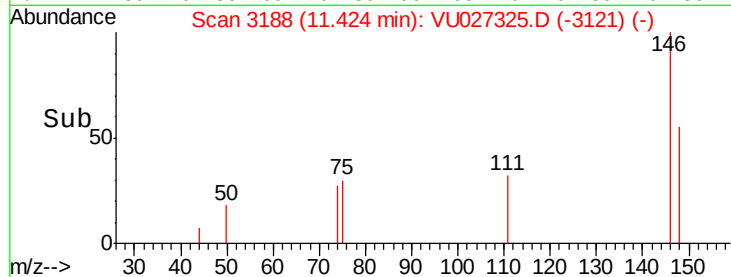
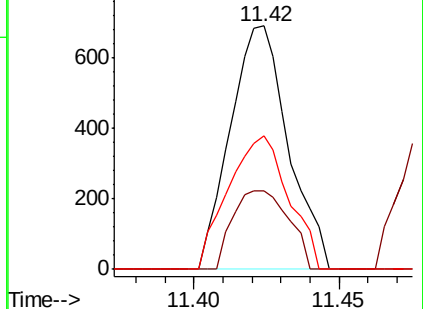
148 57.1 31.9 95.5



Abundance Ion 145.90 (145.60 to 146.60): V

Ion 110.90 (110.60 to 111.60): V

Ion 147.90 (147.60 to 148.60): V



#89

n-Butylbenzene

Concen: 2.155 ug/l

RT: 11.89 min Scan# 3334

Delta R.T. 0.00 min

Lab File: VU027325.D

Acq: 01 Oct 2018 17:59

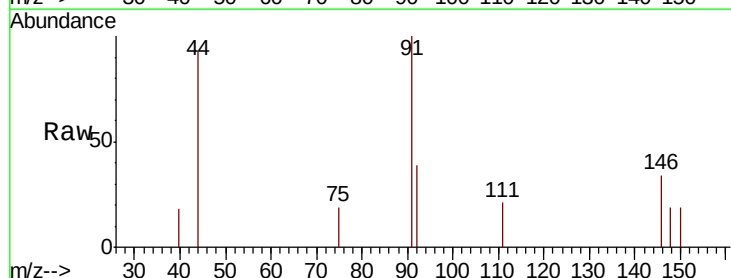
Tgt Ion: 91 Resp: 1047

Ion Ratio Lower Upper

91 100

92 31.7 27.0 81.0

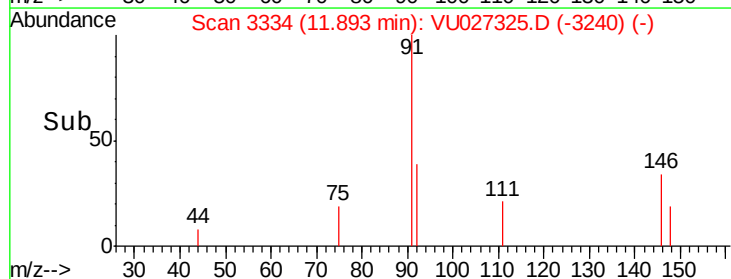
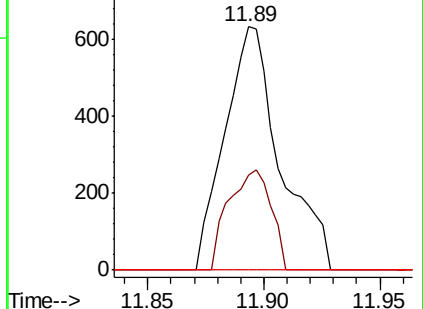
134 0.0 11.7 35.1#

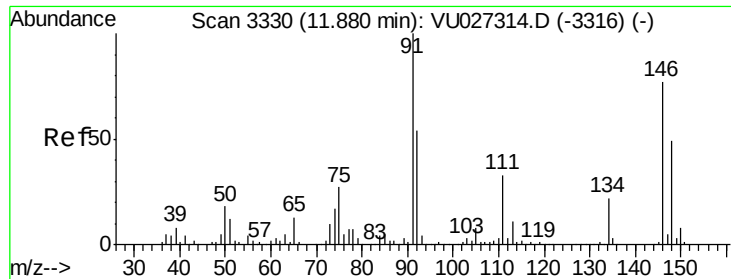


Abundance Ion 91.00 (90.70 to 91.70): VU0

Ion 92.00 (91.70 to 92.70): VU0

Ion 134.00 (133.70 to 134.70): V

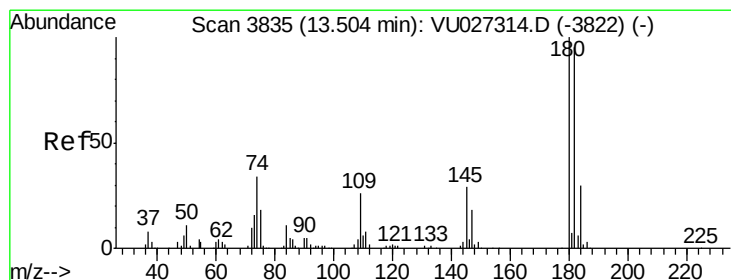
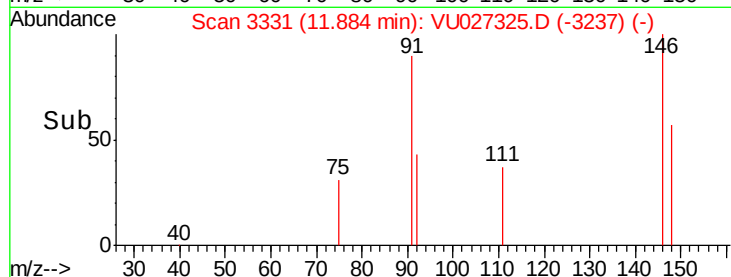
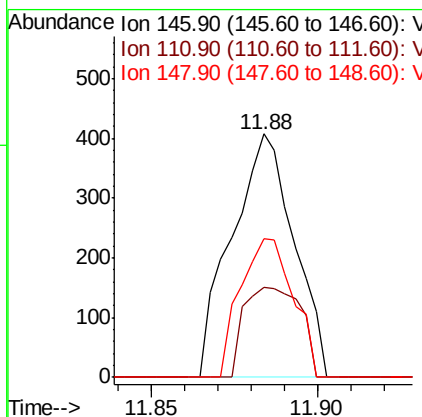
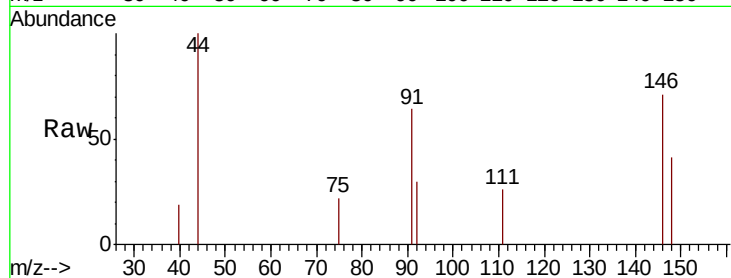




#91
 1,2-Dichlorobenzene
 Concen: 0.229 ug/l
 RT: 11.88 min Scan# 3331
 Delta R.T. 0.00 min
 Lab File: VU027325.D
 Acq: 01 Oct 2018 17:59

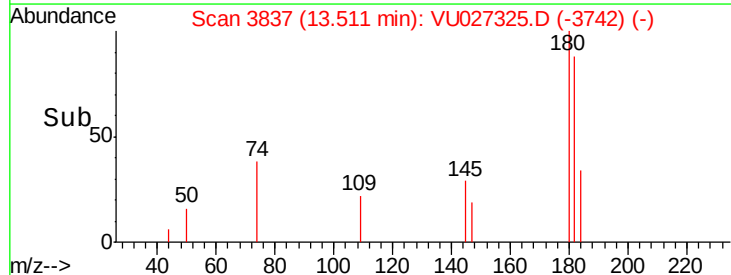
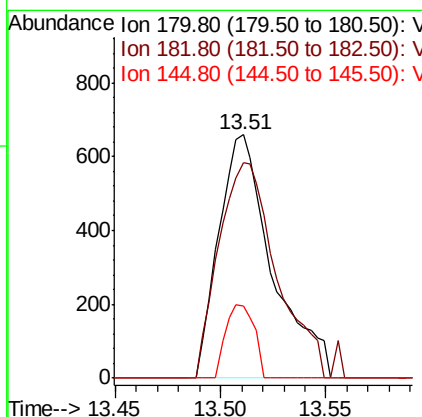
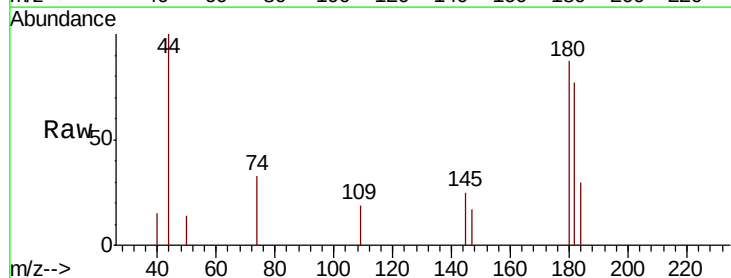
Instrument :
 MSVOA_U
 ClientSampleId :
 STORAGE-BLANK-SOIL-REF-6

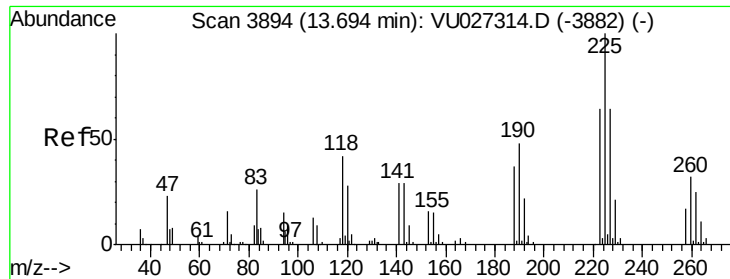
Tot Ion:146 Resp: 533
 Ion Ratio Lower Upper
 146 100
 111 33.6 21.8 65.4
 148 48.2 31.9 95.5



#93
 1,2,4-Trichlorobenzene
 Concen: 0.770 ug/l
 RT: 13.51 min Scan# 3837
 Delta R.T. 0.01 min
 Lab File: VU027325.D
 Acq: 01 Oct 2018 17:59

Tgt Ion:180 Resp: 1160
 Ion Ratio Lower Upper
 180 100
 182 95.5 47.4 142.3
 145 15.8 14.6 44.0





#94

Hexachlorobutadiene

Concen: 0.659 ug/l

RT: 13.69 min Scan# 3894

Delta R.T. 0.00 min

Lab File: VU027325.D

Acq: 01 Oct 2018 17:59

Instrument :

MSVOA_U

ClientSampleId :

STORAGE-BLANK-SOIL-REF-6

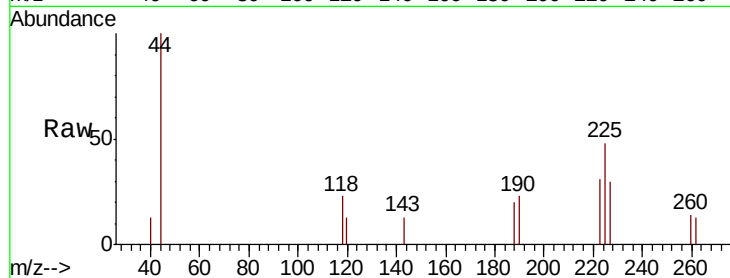
Tot Ion:225 Resp: 502

Ion Ratio Lower Upper

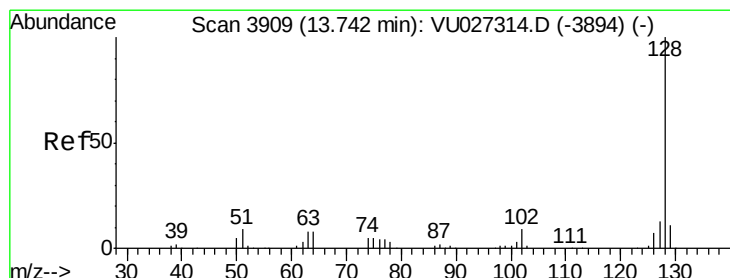
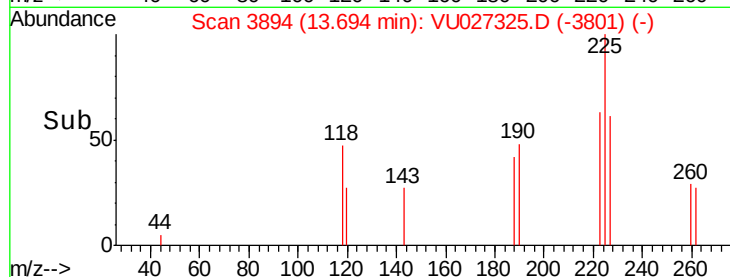
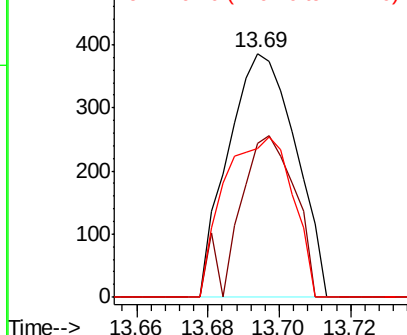
225 100

223 55.0 31.8 95.3

227 66.7 31.9 95.7



Abundance Ion 224.70 (224.40 to 225.40): V
Ion 222.70 (222.40 to 223.40): V
Ion 226.70 (226.40 to 227.40): V



#95

Naphthalene

Concen: 2.284 ug/l

RT: 13.76 min Scan# 3913

Delta R.T. 0.01 min

Lab File: VU027325.D

Acq: 01 Oct 2018 17:59

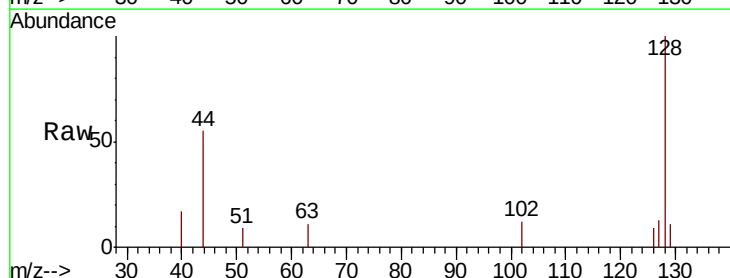
Tgt Ion:128 Resp: 3654

Ion Ratio Lower Upper

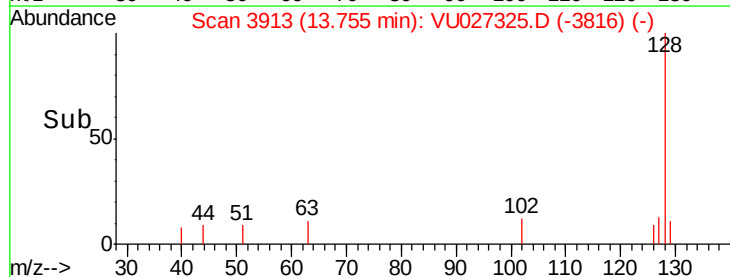
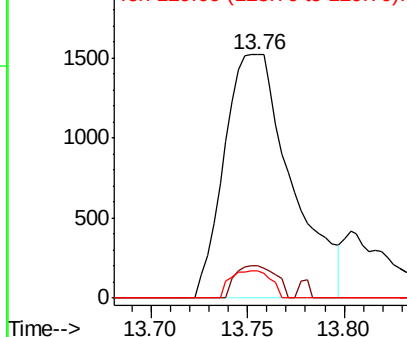
128 100

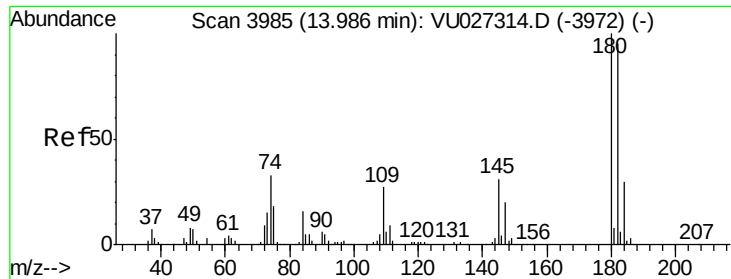
127 8.0 10.5 15.7#

129 6.8 8.6 12.8#



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





#96
 1,2,3-Trichlorobenzene
 Concen: 0.371 ug/l
 RT: 13.99 min Scan# 3987
 Delta R.T. 0.01 min
 Lab File: VU027325.D
 Acq: 01 Oct 2018 17:59

Instrument :
 MSVOA_U
 ClientSampleId :
 STORAGE-BLANK-SOIL-REF-6

Tot Ion	Ratio	Lower	Upper
180	100		
182	94.3	47.4	142.2
145	12.3	15.9	47.7#

