

Data Path : Z:\VOASRV\HPCHEM1\MSVOA U\DATA\VU092818\
 Data File : VU027260.D
 Acq On : 28 Sep 2018 10:49
 Operator : MD/SY
 Sample : J5038-03
 Misc : 5.0mL/MSVOA U/WATER
 ALS Vial : 7 Sample Multiplier: 1

Instrument :
 MSVOA_U
 ClientSampleId :
 TB1-082218

Quant Time: Sep 28 16:16:43 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	98487	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	5.89	114	168798	50.00	ug/l	0.00
63) Chlorobenzene-d5	9.09	117	158936	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	11.48	152	72862	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	100916	50.91	ug/l	0.00
Spiked Amount			Recovery	=	101.82%	
35) Dibromofluoromethane	4.88	113	70479	48.17	ug/l	0.00
Spiked Amount			Recovery	=	96.34%	
50) Toluene-d8	7.57	98	266094	47.72	ug/l	0.00
Spiked Amount			Recovery	=	95.44%	
62) 4-Bromofluorobenzene	10.31	95	85533	44.70	ug/l	0.00
Spiked Amount			Recovery	=	89.40%	

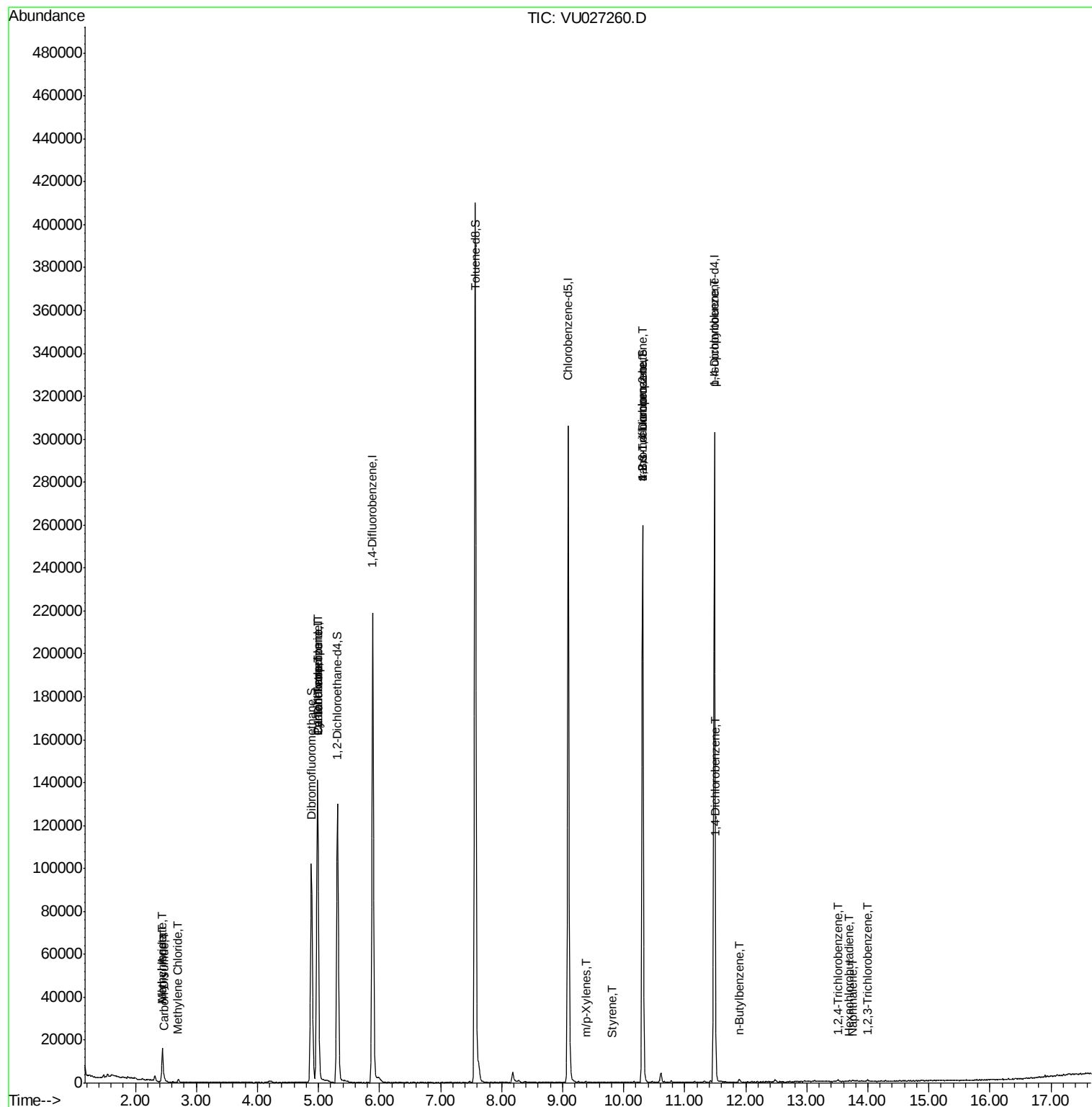
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
14) Allyl chloride	2.44	41	1554	0.563	ug/l #	75
16) Acetone	2.32	43	2942	Below Cal		90
17) Carbon Disulfide	2.48	76	1143	0.258	ug/l #	75
18) Methyl Acetate	2.44	43	3823	1.355	ug/l #	55
20) Methylene Chloride	2.70	84	554	0.312	ug/l #	74
31) Cyclohexane	4.99	56	2465	0.262	ug/l #	1
36) 1,1-Dichloropropene	4.98	75	9278	4.118	ug/l #	49
38) Carbon Tetrachloride	4.98	117	10200	4.758	ug/l #	19
68) m/p-Xylenes	9.38	106	216	1.577	ug/l	78
70) Styrene	9.80	104	101	1.831	ug/l #	24
76) 1,2,3-Trichloropropane	10.31	75	45860	20.718	ug/l #	35
81) trans-1,4-Dichloro-2-buten	10.31	75	45860	66.301	ug/l #	100
86) p-Isopropyltoluene	11.48	119	525	1.027	ug/l #	69
88) 1,4-Dichlorobenzene	11.51	146	754	0.274	ug/l #	54
89) n-Butylbenzene	11.89	91	843	2.552	ug/l	87
93) 1,2,4-Trichlorobenzene	13.51	180	447	0.290	ug/l #	75
94) Hexachlorobutadiene	13.69	225	196	0.240	ug/l #	60
95) Naphthalene	13.75	128	619	1.788	ug/l #	80
96) 1,2,3-Trichlorobenzene	14.00	180	497	0.300	ug/l #	83

(#) = 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: VU027260.D

Acq: 28 Sep 2018 10:49

Instrument :

MSVOA_U

ClientSampleId :

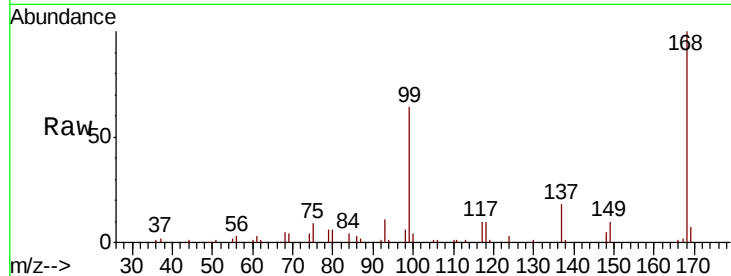
TB1-082218

Tot Ion:168 Resp: 98487

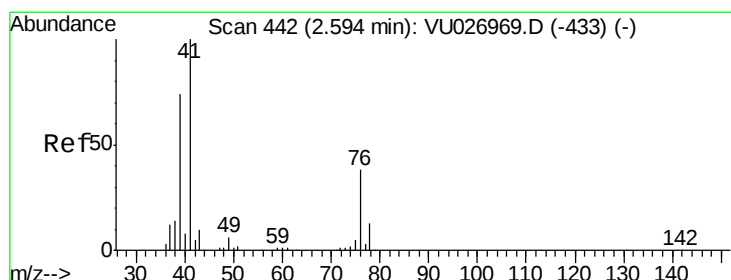
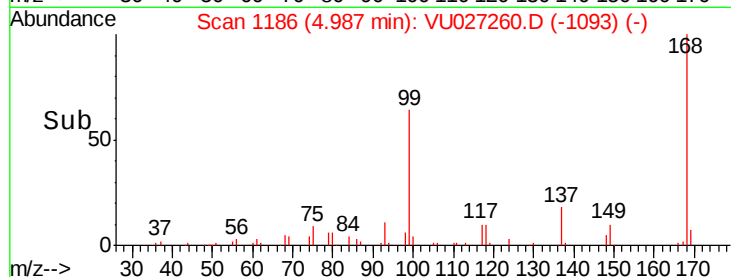
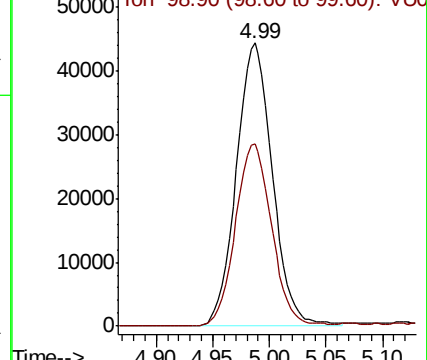
Ion Ratio Lower Upper

168 100

99 64.4 48.1 72.1



Abundance Ion 167.90 (167.60 to 168.60): VU027260.D (-1169) (-)



#14

Allyl chloride

Concen: 0.563 ug/l

RT: 2.44 min Scan# 395

Delta R.T. -0.15 min

Lab File: VU027260.D

Acq: 28 Sep 2018 10:49

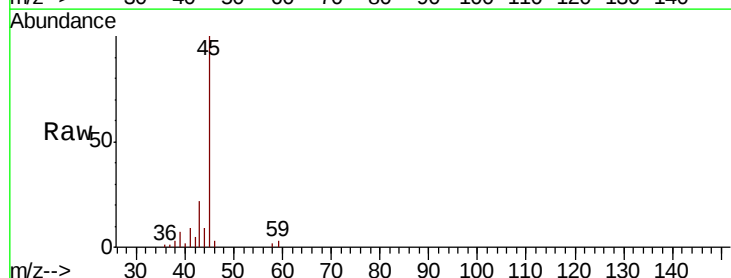
Tgt Ion: 41 Resp: 1554

Ion Ratio Lower Upper

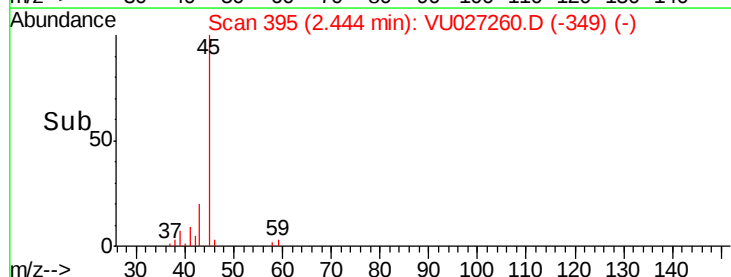
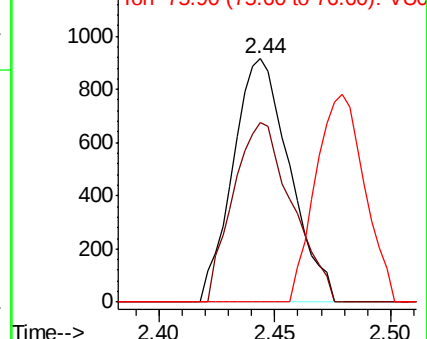
41 100

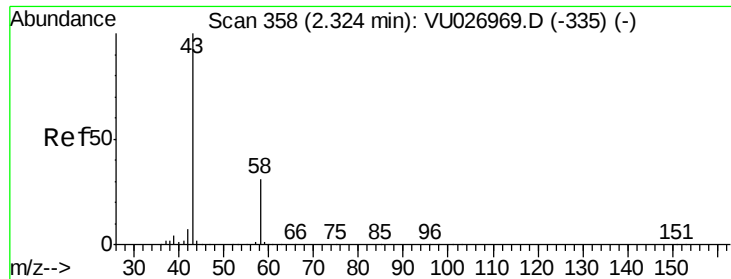
39 76.9 55.7 83.5

76 0.0 26.5 39.7#



Abundance Ion 41.00 (40.70 to 41.70): VU027260.D (-349) (-)





#16

Acetone

Concen: Below Cal

RT: 2.32 min Scan# 357

Delta R.T. -0.00 min

Lab File: VU027260.D

Acq: 28 Sep 2018 10:49

Instrument :

MSVOA_U

ClientSampleId :

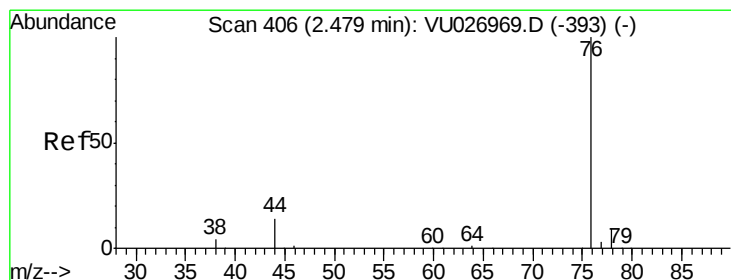
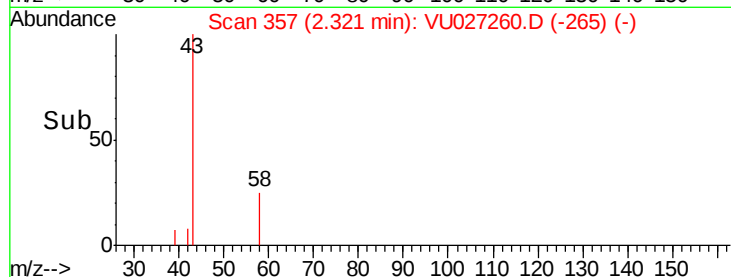
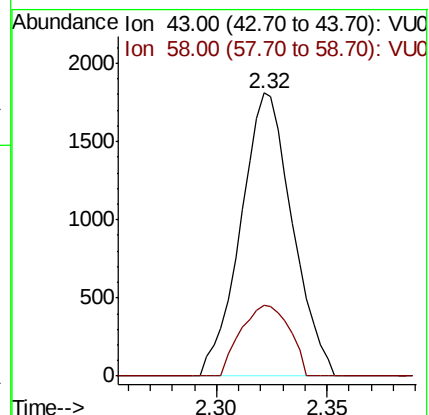
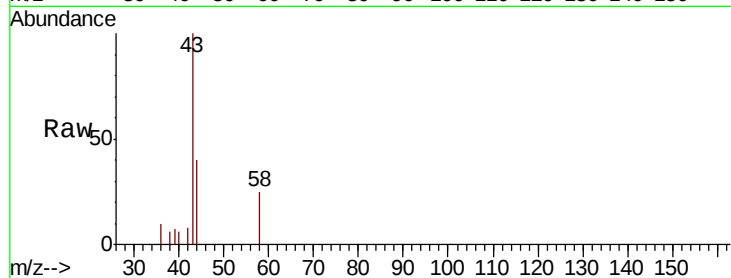
TB1-082218

Tot Ion: 43 Resp: 2942

Ion Ratio Lower Upper

43 100

58 25.1 24.6 36.8



#17

Carbon Disulfide

Concen: 0.258 ug/l

RT: 2.48 min Scan# 406

Delta R.T. 0.00 min

Lab File: VU027260.D

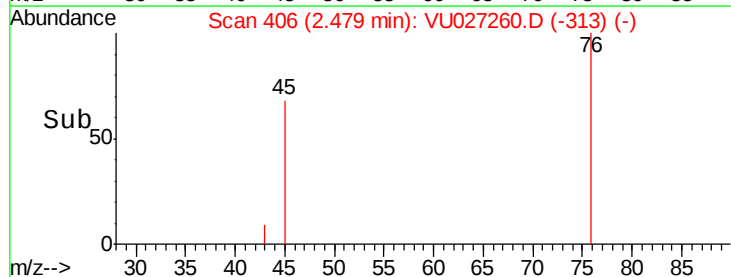
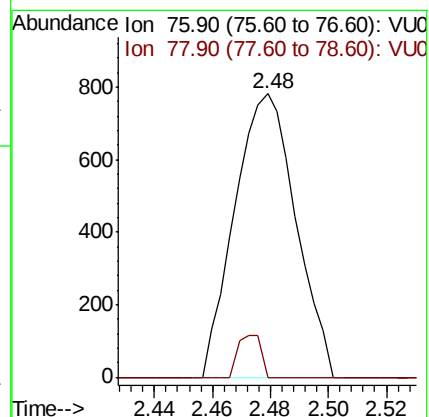
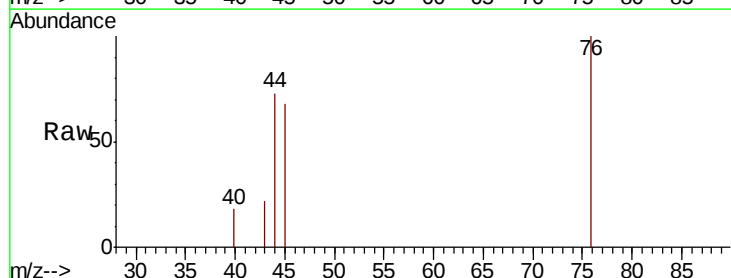
Acq: 28 Sep 2018 10:49

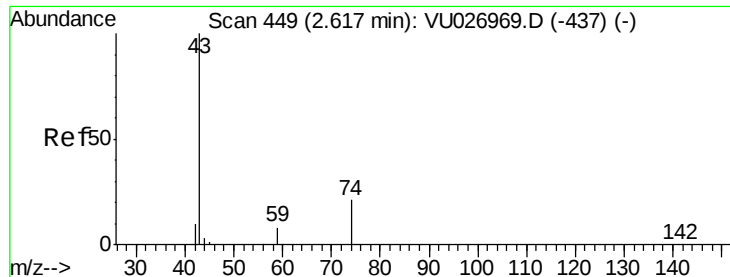
Tgt Ion: 76 Resp: 1143

Ion Ratio Lower Upper

76 100

78 0.0 7.1 10.7#

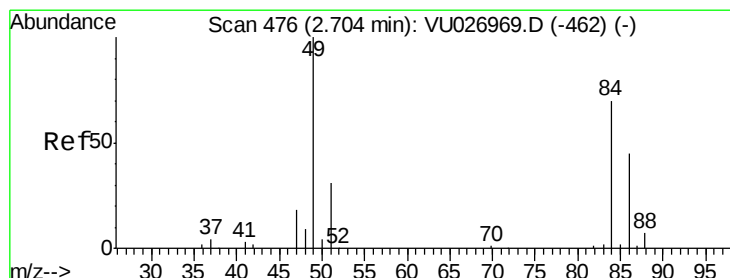
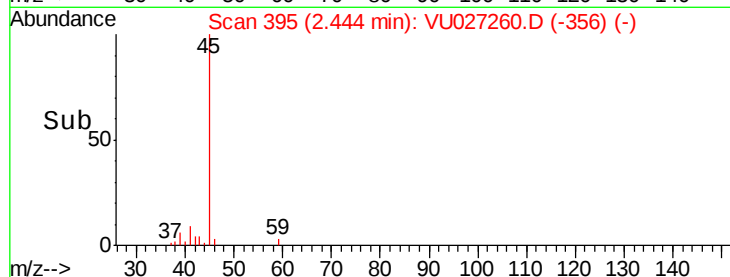
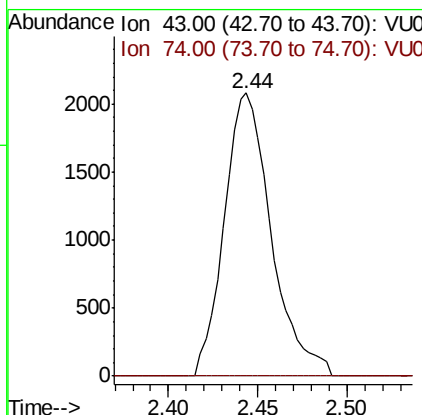
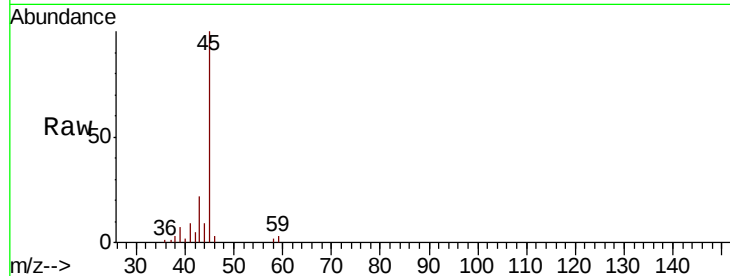




#18
Methvl Acetate
Concen: 1.355 ug/l
RT: 2.44 min Scan# 395
Delta R.T. -0.17 min
Lab File: VU027260.D
Acq: 28 Sep 2018 10:49

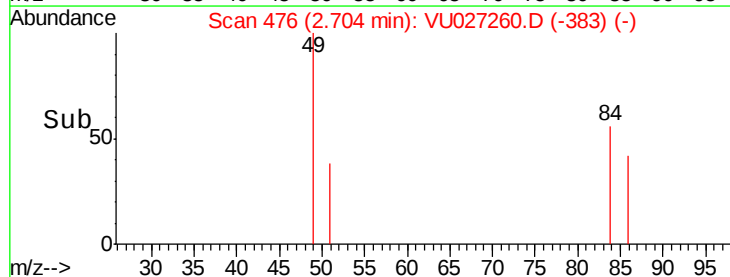
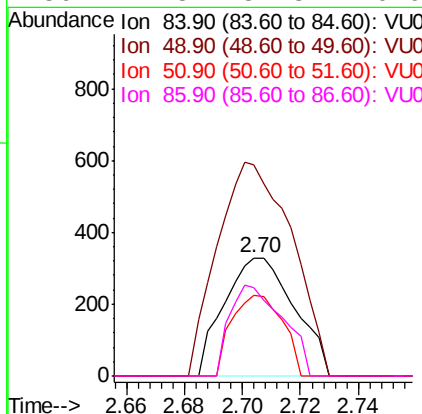
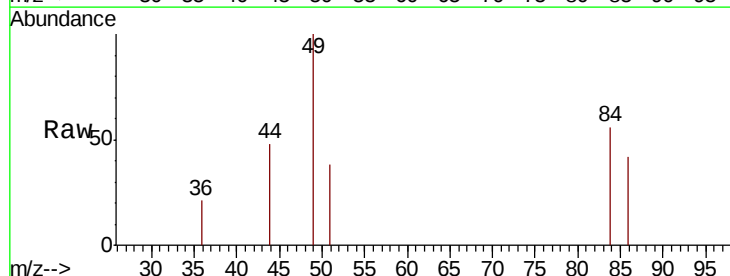
Instrument :
MSVOA_U
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TB1-082218

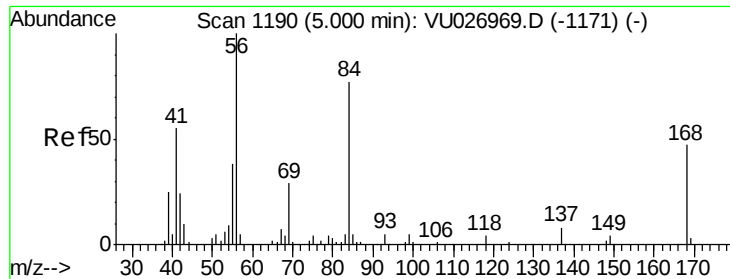
Tot Ion: 43 Resp: 3823
Ion Ratio Lower Upper
43 100
74 0.0 16.6 25.0#



#20
Methylene Chloride
Concen: 0.312 ug/l
RT: 2.70 min Scan# 476
Delta R.T. 0.00 min
Lab File: VU027260.D
Acq: 28 Sep 2018 10:49

Tgt Ion: 84 Resp: 554
Ion Ratio Lower Upper
84 100
49 178.7 114.9 172.3#
51 68.1 35.8 53.8#
86 74.8 51.3 76.9

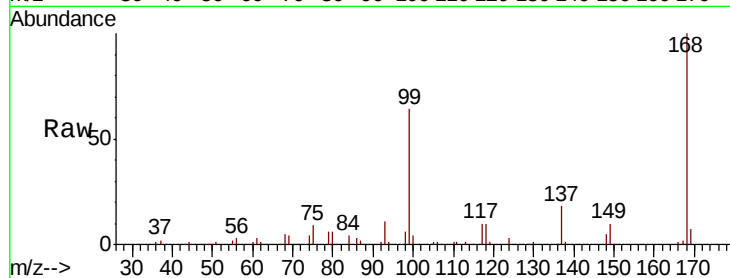




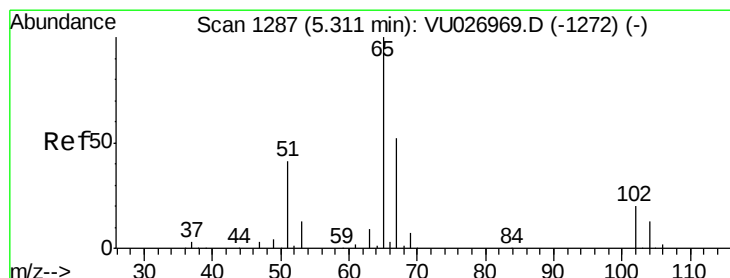
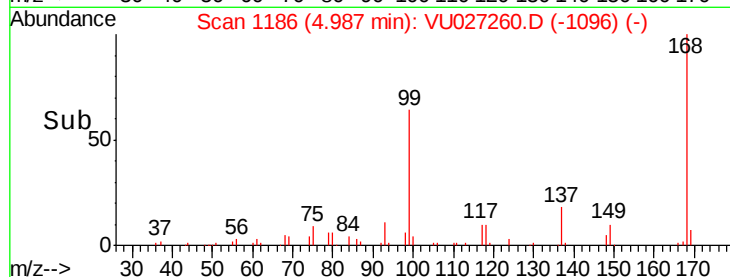
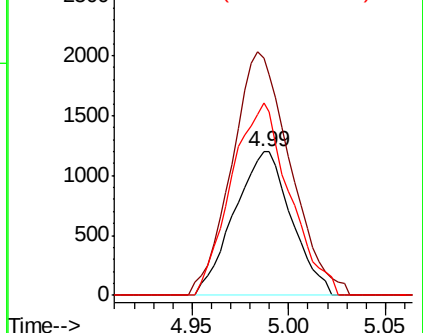
#31
Cyclohexane
Concen: 0.262 ug/l
RT: 4.99 min Scan# 1186
Delta R.T. -0.01 min
Lab File: VU027260.D
Acq: 28 Sep 2018 10:49

Instrument :
MSVOA_U
ClientSampleId :
TB1-082218

Tot Ion: 56 Resp: 2465
Ion Ratio Lower Upper
56 100
69 165.0 23.0 34.4#
84 133.7 61.4 92.2#

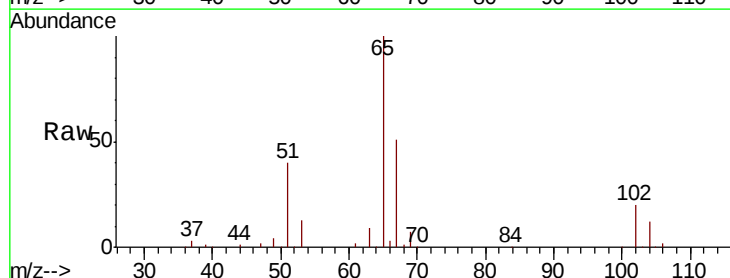


Abundance Ion 56.00 (55.70 to 56.70): VU0
Ion 69.00 (68.70 to 69.70): VU0
Ion 84.00 (83.70 to 84.70): VU0

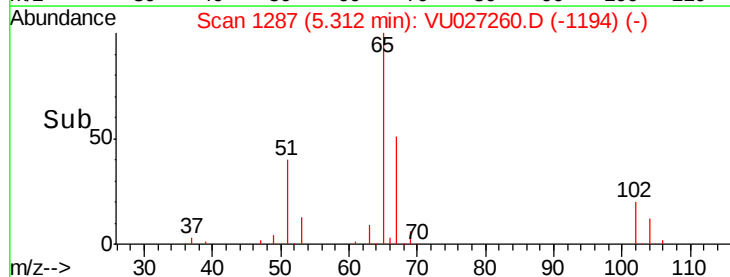
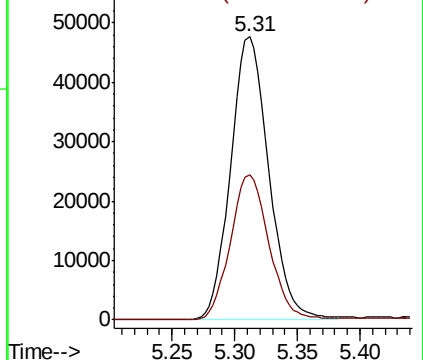


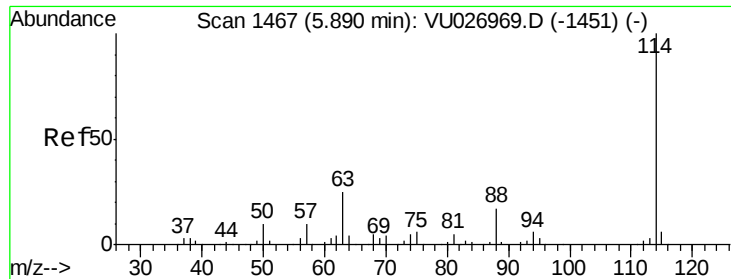
#33
1,2-Dichloroethane-d4
Concen: 50.911 ug/l
RT: 5.31 min Scan# 1287
Delta R.T. 0.00 min
Lab File: VU027260.D
Acq: 28 Sep 2018 10:49

Tgt Ion: 65 Resp: 100916
Ion Ratio Lower Upper
65 100
67 52.0 0.0 105.6



Abundance Ion 64.90 (64.60 to 65.60): VU0
Ion 66.90 (66.60 to 67.60): VU0

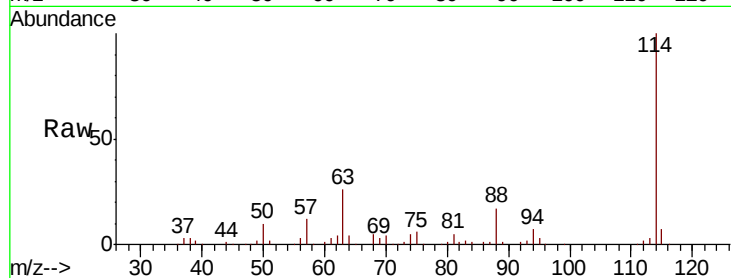




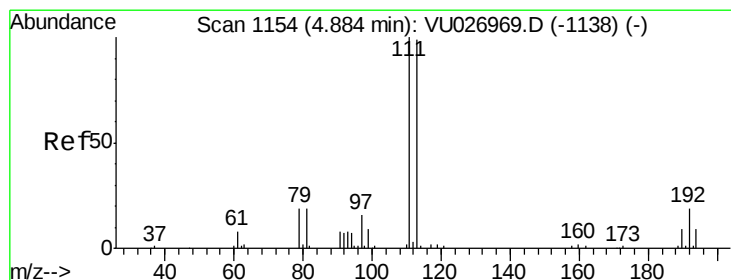
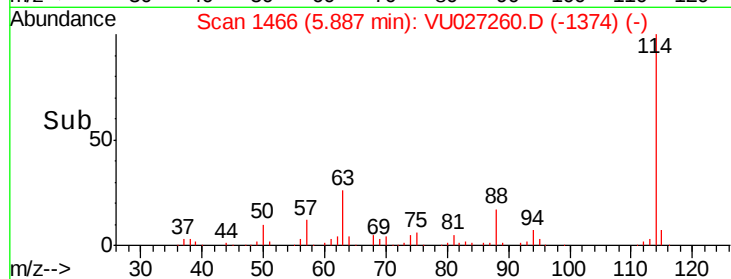
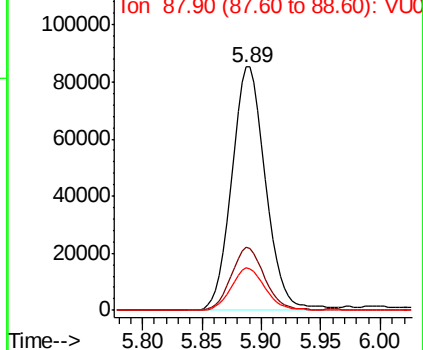
#34
 1,4-Difluorobenzene
 Concen: 50.000 ug/l
 RT: 5.89 min Scan# 1466
 Delta R.T. -0.00 min
 Lab File: VU027260.D
 Acq: 28 Sep 2018 10:49

Instrument :
 MSVOA_U
 ClientSampled :
 TB1-082218

Tot Ion:114 Resp: 168798
 Ion Ratio Lower Upper
 114 100
 63 25.9 0.0 49.2
 88 17.4 0.0 33.8

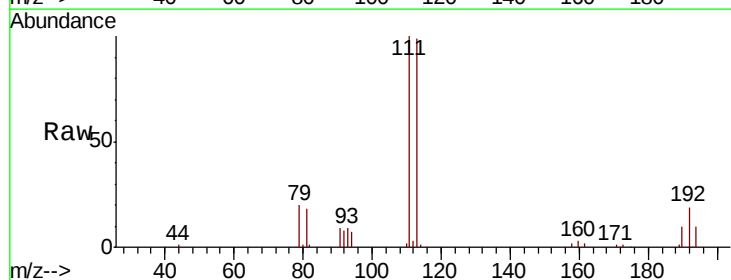


Abundance Ion 113.90 (113.60 to 114.60): V
 Ion 63.00 (62.70 to 63.70): VU0
 Ion 87.90 (87.60 to 88.60): VU0

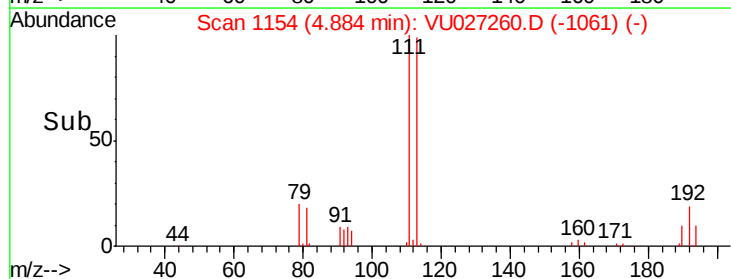
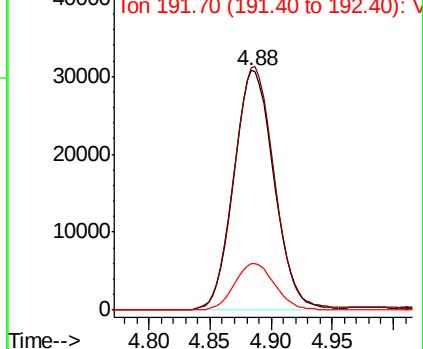


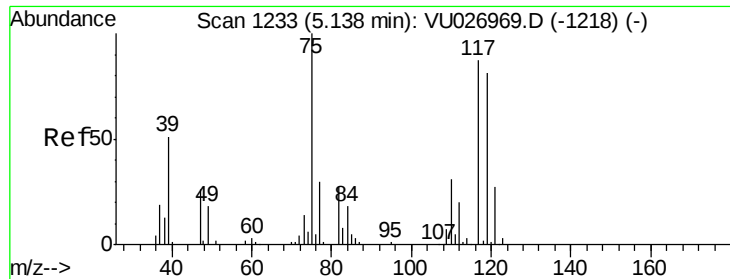
#35
 Dibromofluoromethane
 Concen: 48.170 ug/l
 RT: 4.88 min Scan# 1154
 Delta R.T. 0.00 min
 Lab File: VU027260.D
 Acq: 28 Sep 2018 10:49

Tgt Ion:113 Resp: 70479
 Ion Ratio Lower Upper
 113 100
 111 102.1 82.2 123.4
 192 19.3 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

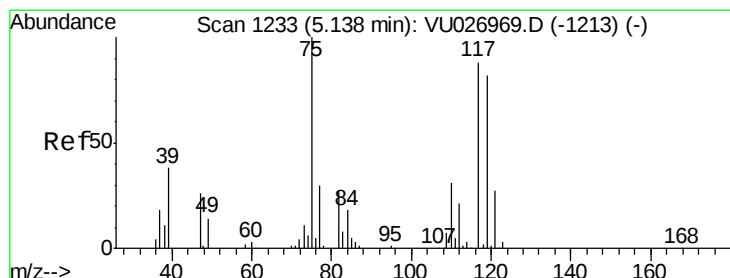
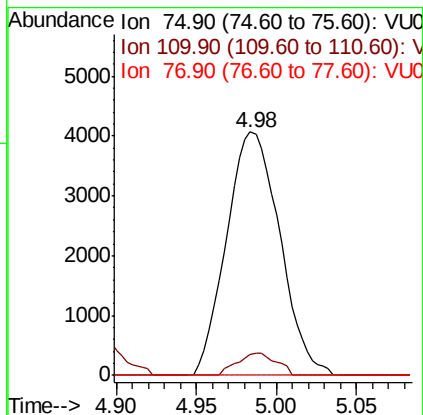
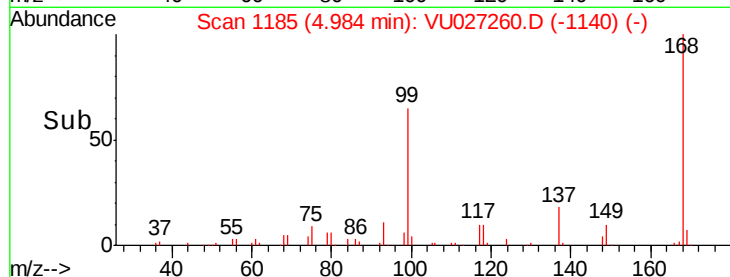
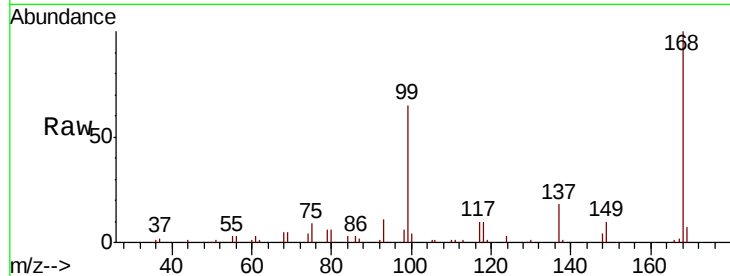




#36
 1,1-Dichloropropene
 Concen: 4.118 ug/l
 RT: 4.98 min Scan# 1185
 Delta R.T. -0.15 min
 Lab File: VU027260.D
 Acq: 28 Sep 2018 10:49

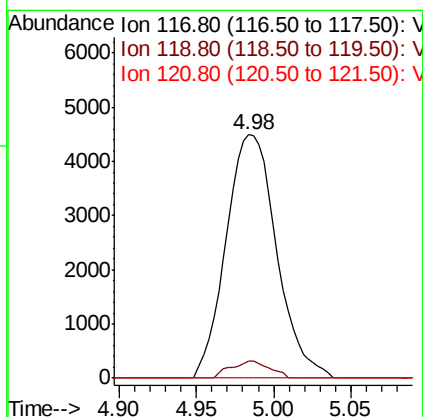
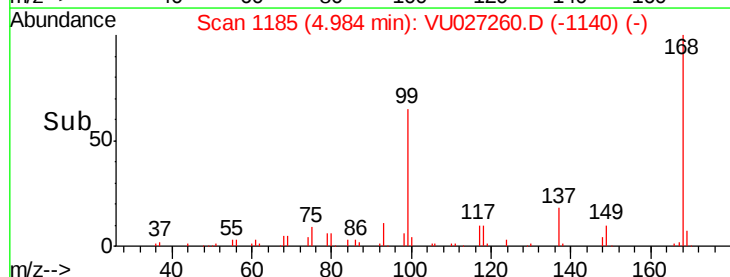
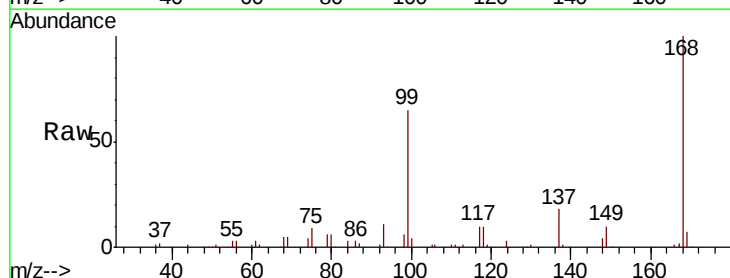
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 ClientSampleID :
 TB1-082218

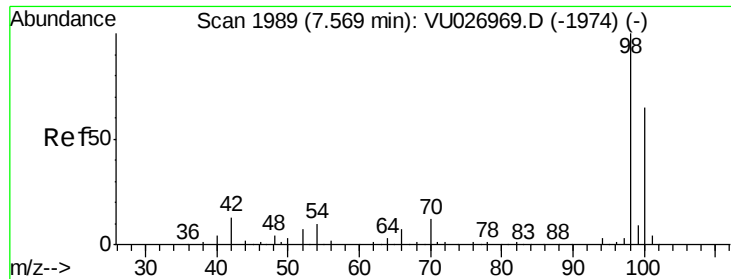
Tot Ion	Ratio	Lower	Upper
75	100		
110	6.6	16.1	48.2#
77	0.0	24.6	36.8#



#38
 Carbon Tetrachloride
 Concen: 4.758 ug/l
 RT: 4.98 min Scan# 1185
 Delta R.T. -0.15 min
 Lab File: VU027260.D
 Acq: 28 Sep 2018 10:49

Tgt Ion	Ratio	Lower	Upper
117	100		
119	7.1	74.4	111.6#
121	0.0	24.2	36.4#

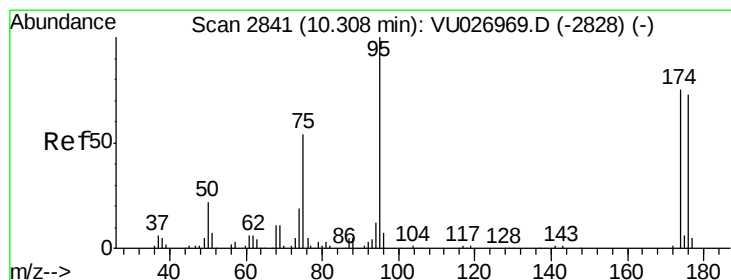
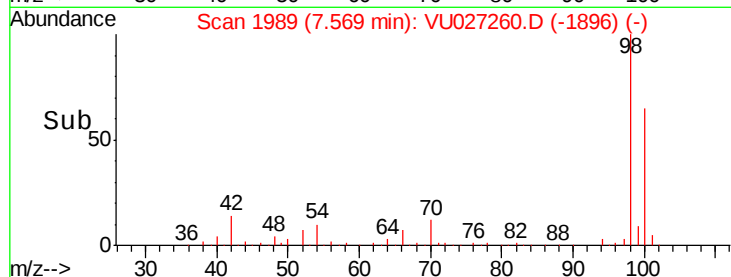
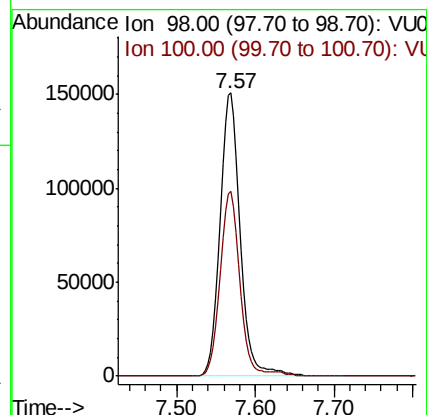
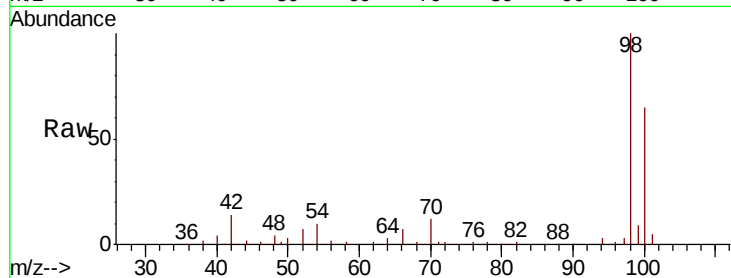




#50
Toluene-d8
Concen: 47.720 ug/l
RT: 7.57 min Scan# 1989
Delta R.T. 0.00 min
Lab File: VU027260.D
Acq: 28 Sep 2018 10:49

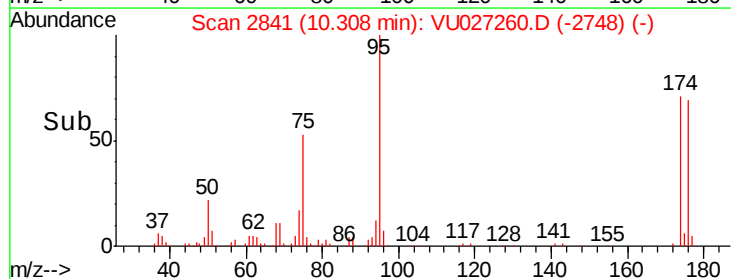
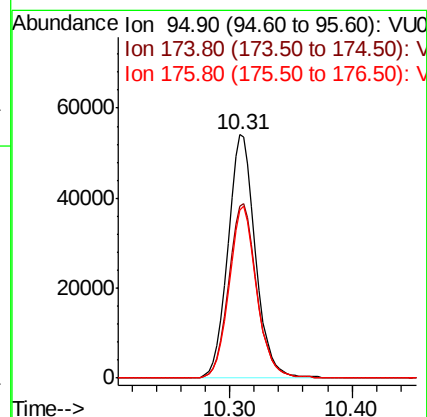
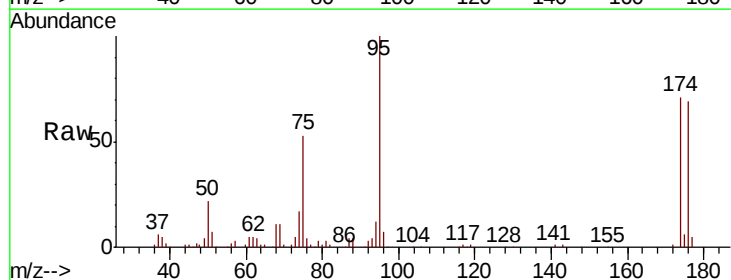
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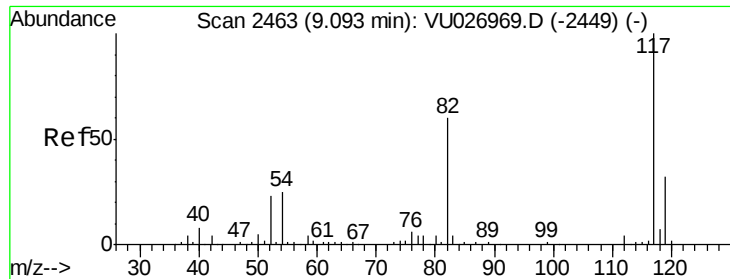
Tot Ion: 98 Resp: 266094
Ion Ratio Lower Upper
98 100
100 64.5 52.1 78.1



#62
4-Bromofluorobenzene
Concen: 44.704 ug/l
RT: 10.31 min Scan# 2841
Delta R.T. 0.00 min
Lab File: VU027260.D
Acq: 28 Sep 2018 10:49

Tgt Ion: 95 Resp: 85533
Ion Ratio Lower Upper
95 100
174 73.5 0.0 150.2
176 70.6 0.0 145.2

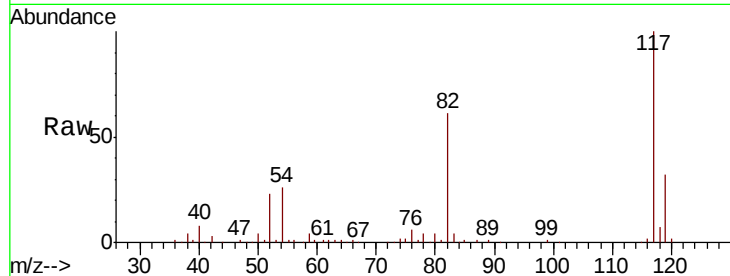




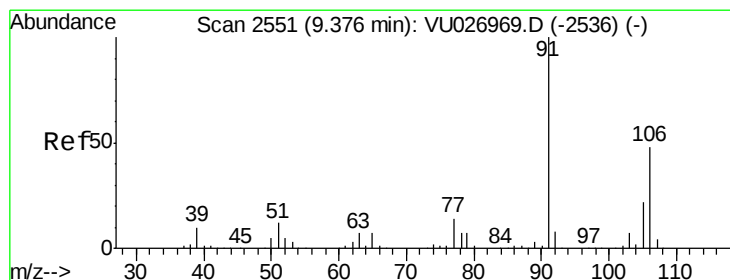
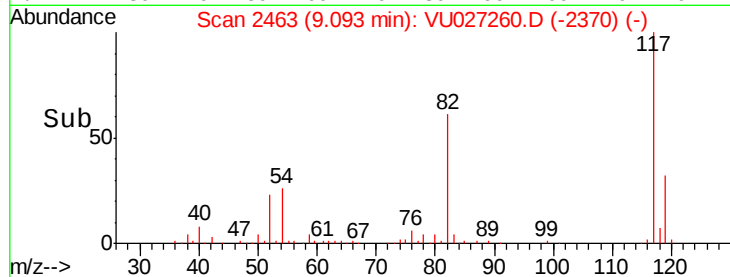
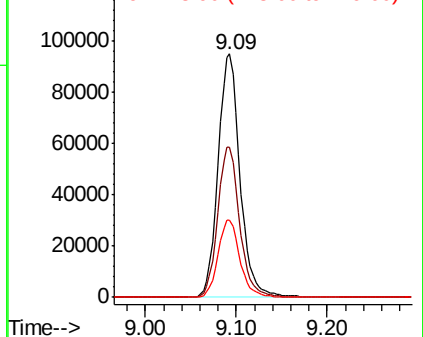
#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 9.09 min Scan# 2463
Delta R.T. 0.00 min
Lab File: VU027260.D
Acq: 28 Sep 2018 10:49

Instrument :
MSVOA_U
ClientSampleId :
TB1-082218

Tot Ion:117 Resp: 158936
Ion Ratio Lower Upper
117 100
82 61.4 48.0 72.0
119 31.7 25.8 38.8

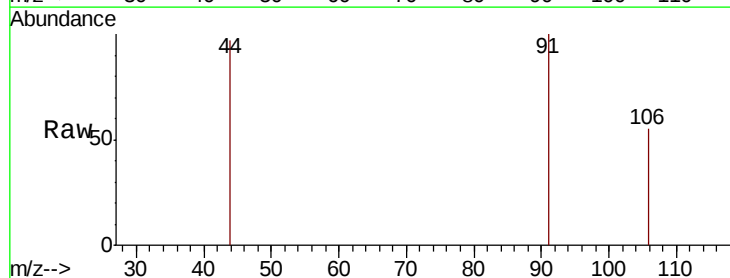


Abundance Ion 116.90 (116.60 to 117.60): V
Ion 82.00 (81.70 to 82.70): VU0
Ion 118.90 (118.60 to 119.60): V

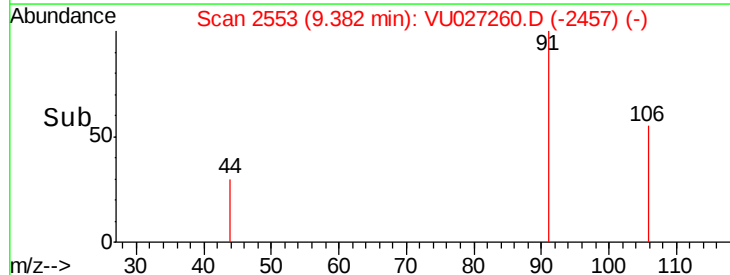
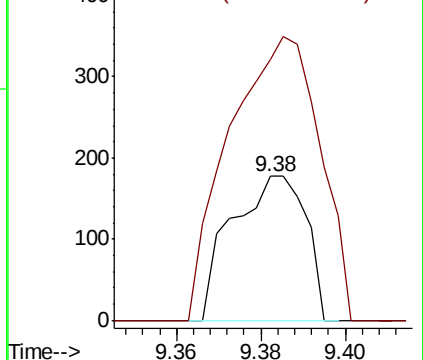


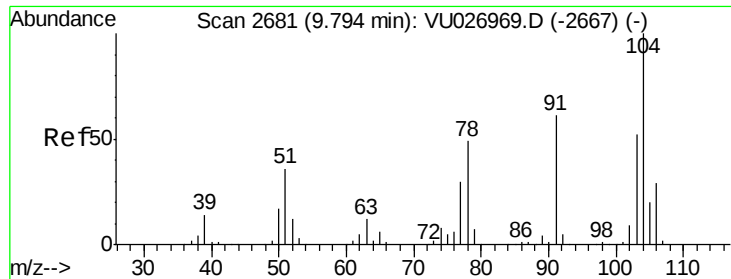
#68
m/p-Xylenes
Concen: 1.577 ug/l
RT: 9.38 min Scan# 2553
Delta R.T. 0.01 min
Lab File: VU027260.D
Acq: 28 Sep 2018 10:49

Tgt Ion:106 Resp: 216
Ion Ratio Lower Upper
106 100
91 241.7 166.5 249.7



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





#70

Stvrene

Concen: 1.831 ug/l

RT: 9.80 min Scan# 2683

Delta R.T. 0.01 min

Lab File: VU027260.D

Acq: 28 Sep 2018 10:49

Instrument :

MSVOA_U

ClientSampleId :

TB1-082218

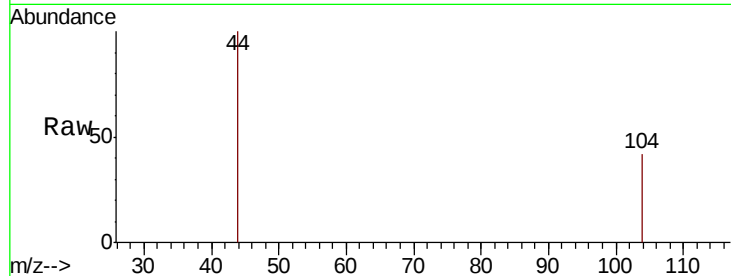
Tot Ion:104 Resp: 101

Ion Ratio Lower Upper

104 100

78 0.0 43.0 64.4#

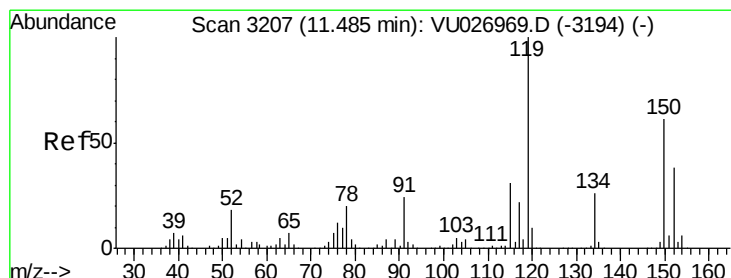
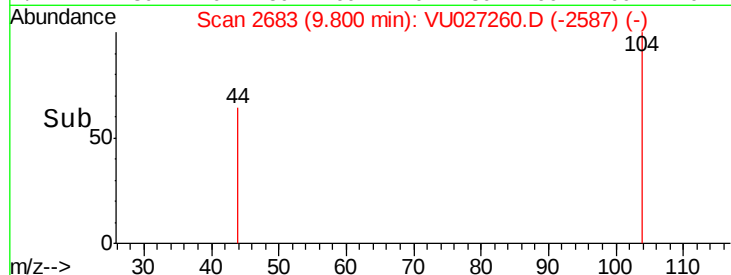
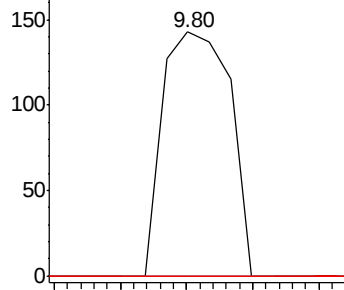
103 0.0 44.1 66.1#



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: VU027260.D

Acq: 28 Sep 2018 10:49

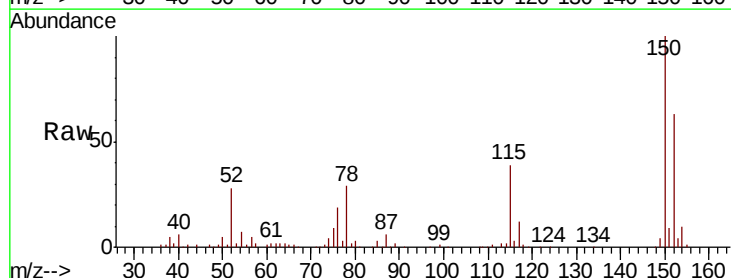
Tgt Ion:152 Resp: 72862

Ion Ratio Lower Upper

152 100

115 61.9 44.9 134.5

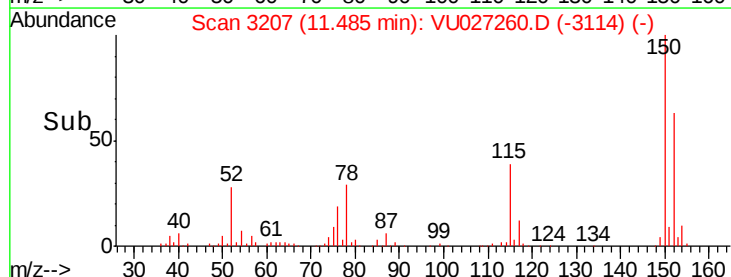
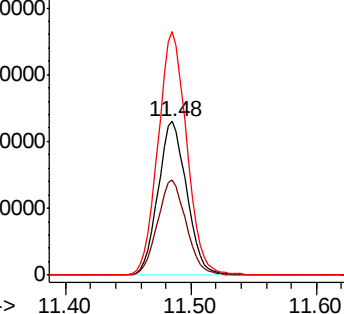
150 158.8 0.0 355.8

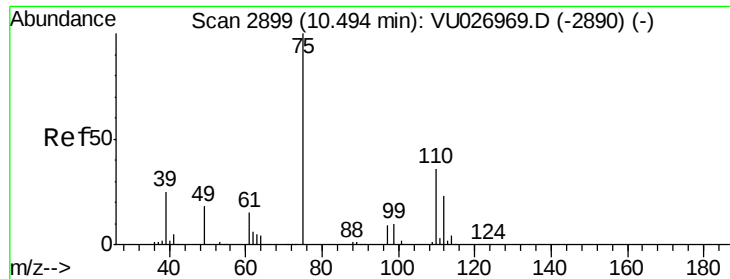


Abundance Ion 151.90 (151.60 to 152.60): V

Ion 114.90 (114.60 to 115.60): V

Ion 149.90 (149.60 to 150.60): V

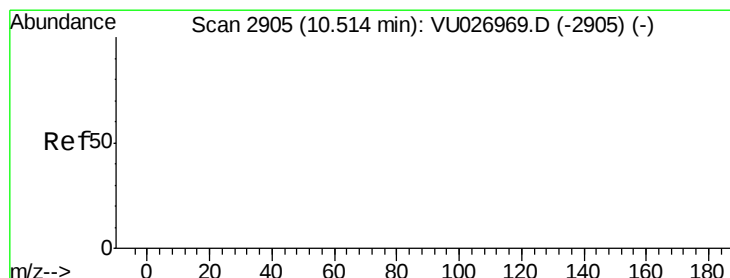
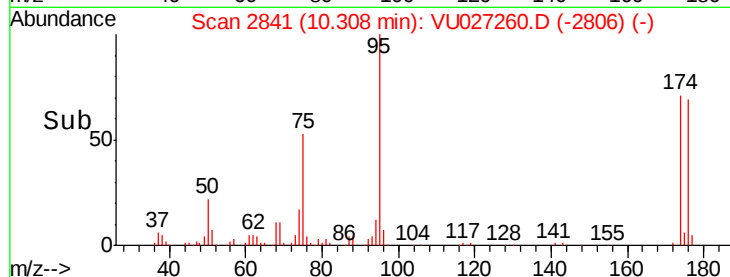
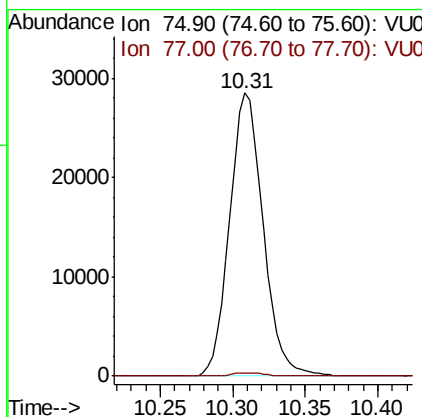
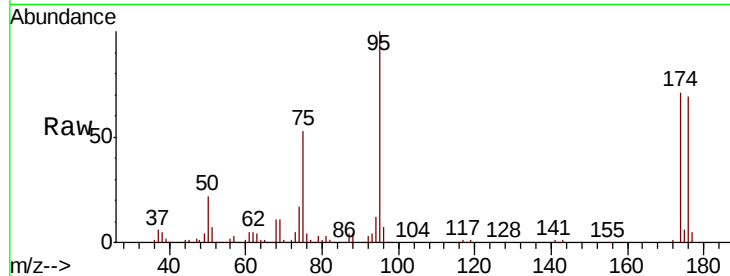




#76
 1,2,3-Trichloropropane
 Concen: 20.718 ug/l
 RT: 10.31 min Scan# 2841
 Delta R.T. -0.19 min
 Lab File: VU027260.D
 Acq: 28 Sep 2018 10:49

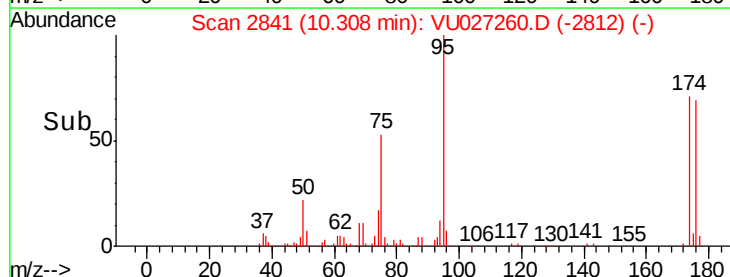
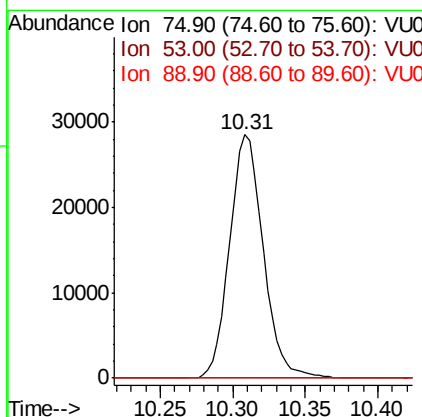
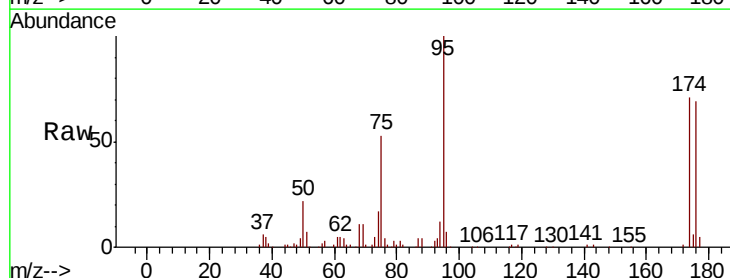
Instrument :
 MSVOA_U
 ClientSampleId :
 TB1-082218

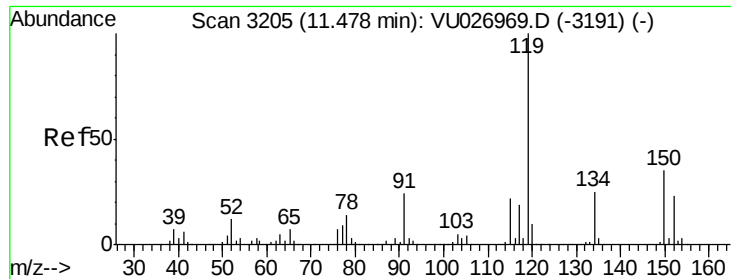
Tot Ion: 75 Resp: 45860
 Ion Ratio Lower Upper
 75 100
 77 1.0 20.9 62.8#



#81
 trans-1,4-Dichloro-2-butene
 Concen: 66.301 ug/l
 RT: 10.31 min Scan# 2841
 Delta R.T. -0.21 min
 Lab File: VU027260.D
 Acq: 28 Sep 2018 10:49

Tgt Ion: 75 Resp: 45860
 Ion Ratio Lower Upper
 75 100
 53 0.0 0.0 0.0
 89 0.0 0.0 0.0

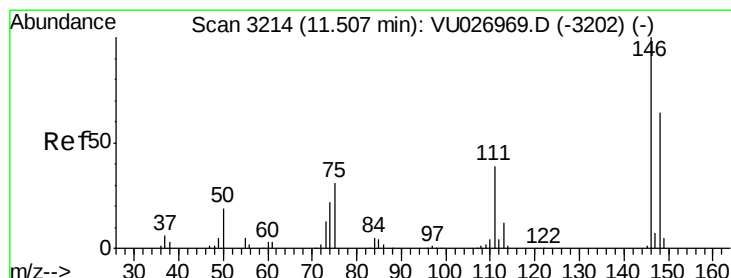
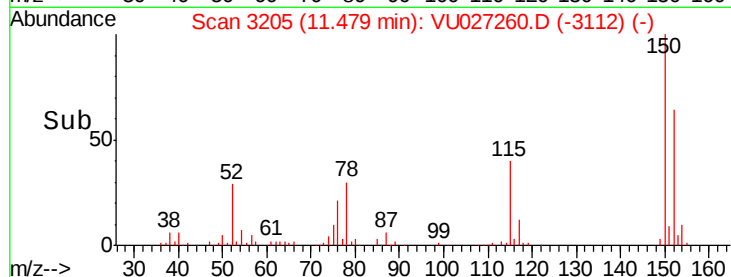
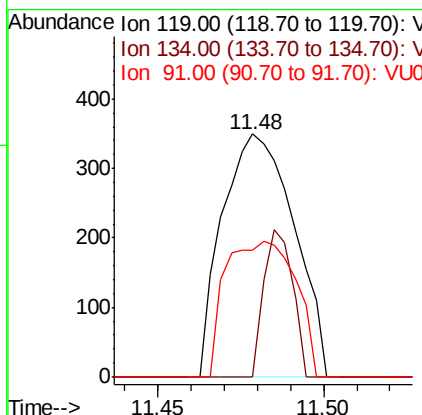
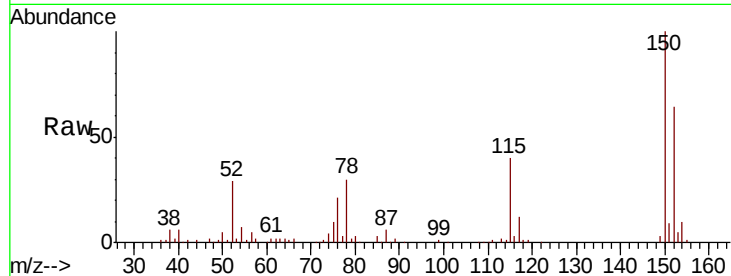




#86
 p-Isopropyltoluene
 Concen: 1.027 ug/l
 RT: 11.48 min Scan# 3205
 Delta R.T. 0.00 min
 Lab File: VU027260.D
 Acq: 28 Sep 2018 10:49

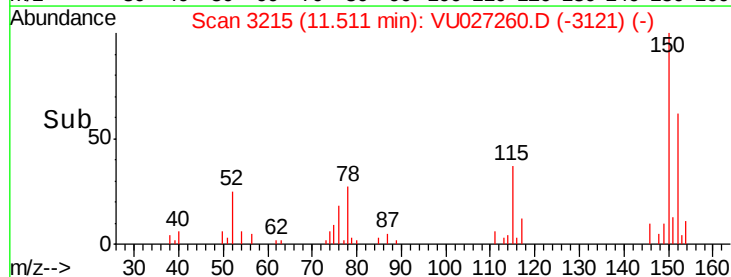
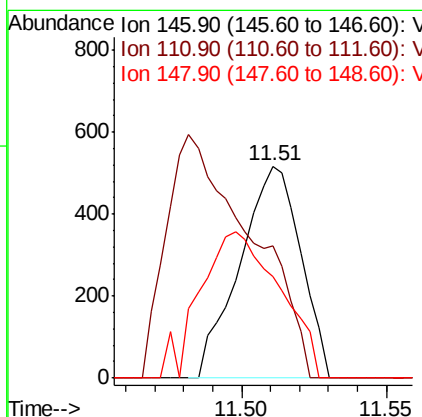
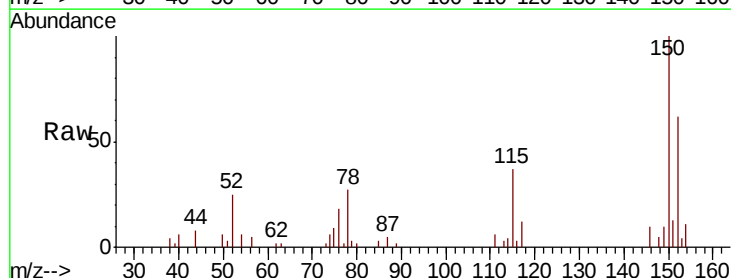
Instrument :
 MSVOA_U
 ClientSampleId :
 TB1-082218

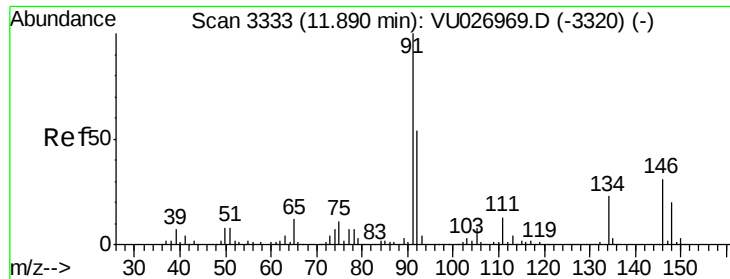
Tot Ion	Ratio	Lower	Upper
119	100		
134	24.2	12.8	38.3
91	54.5	12.3	36.8#



#88
 1,4-Dichlorobenzene
 Concen: 0.274 ug/l
 RT: 11.51 min Scan# 3215
 Delta R.T. 0.00 min
 Lab File: VU027260.D
 Acq: 28 Sep 2018 10:49

Tgt Ion	Ratio	Lower	Upper
146	100		
111	0.0	20.3	60.9#
148	90.3	31.9	95.9





#89

n-Butylbenzene

Concen: 2.552 ug/l

RT: 11.89 min Scan# 3334

Delta R.T. 0.00 min

Lab File: VU027260.D

Acq: 28 Sep 2018 10:49

Instrument :

MSVOA_U

ClientSampleId :

TB1-082218

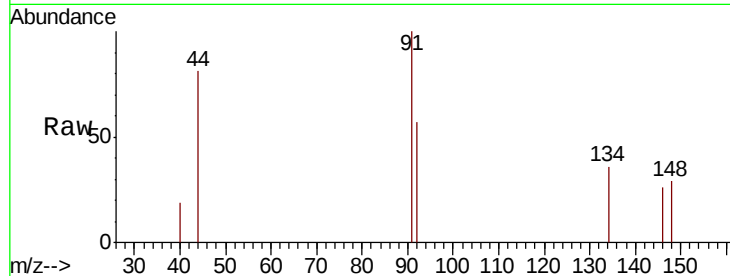
Tot Ion: 91 Resp: 843

Ion Ratio Lower Upper

91 100

92 46.3 27.1 81.2

134 14.0 11.7 35.0

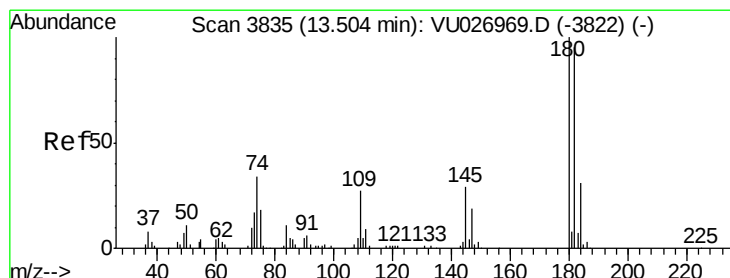
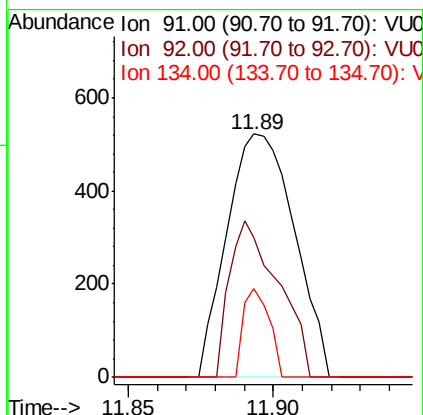
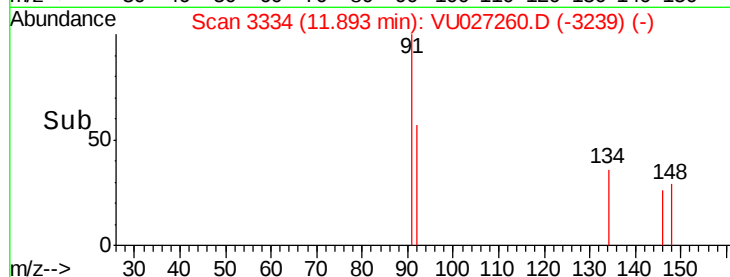


Abundance Ion 91.00 (90.70 to 91.70): VU026969.D (-3320) (-)

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

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

Time--> 11.85 11.90



#93

1,2,4-Trichlorobenzene

Concen: 0.290 ug/l

RT: 13.51 min Scan# 3837

Delta R.T. 0.01 min

Lab File: VU027260.D

Acq: 28 Sep 2018 10:49

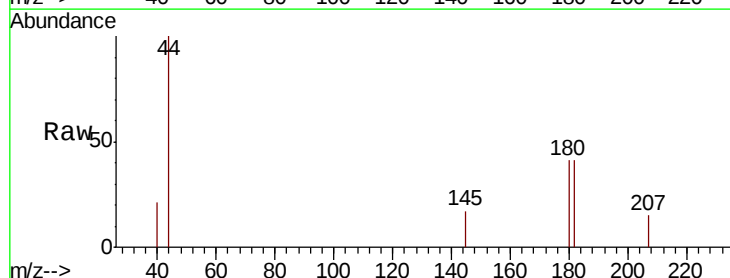
Tgt Ion: 180 Resp: 447

Ion Ratio Lower Upper

180 100

182 74.5 47.4 142.2

145 9.4 14.9 44.5#

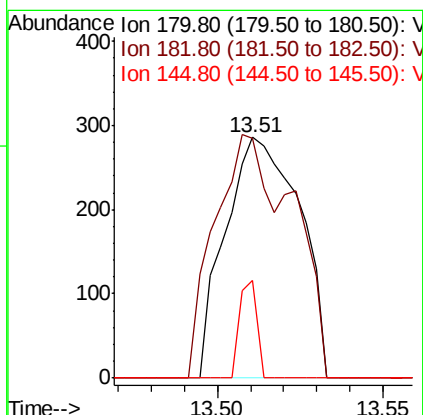
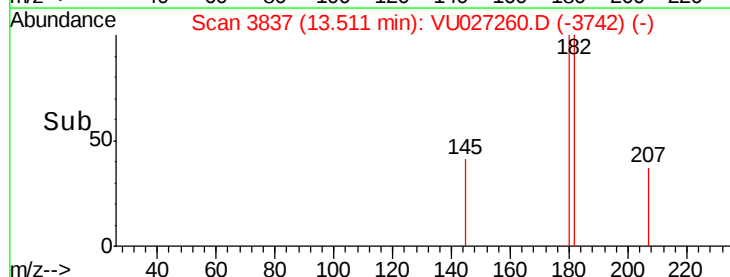


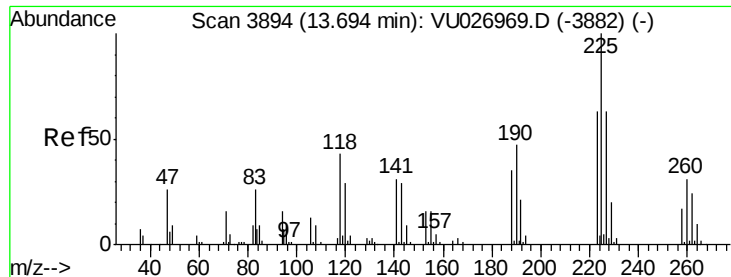
Abundance Ion 179.80 (179.50 to 180.50): VU026969.D (-3822) (-)

Ion 181.80 (181.50 to 182.50): VU026969.D (-3822) (-)

Ion 144.80 (144.50 to 145.50): VU026969.D (-3822) (-)

Time--> 13.50 13.55





#94

Hexachlorobutadiene

Concen: 0.240 ug/l

RT: 13.69 min Scan# 3894

Delta R.T. 0.00 min

Lab File: VU027260.D

Acq: 28 Sep 2018 10:49

Instrument :

MSVOA_U

ClientSampleId :

TB1-082218

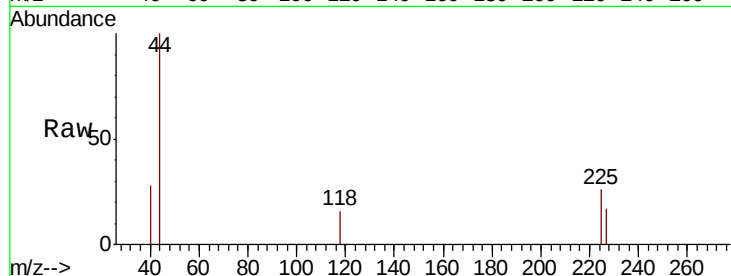
Tot Ion:225 Resp: 196

Ion Ratio Lower Upper

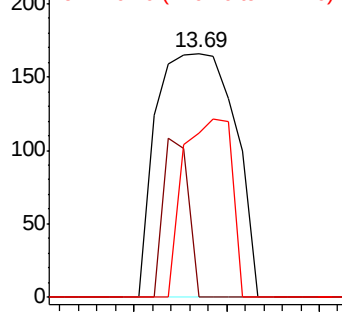
225 100

223 20.4 31.9 95.7#

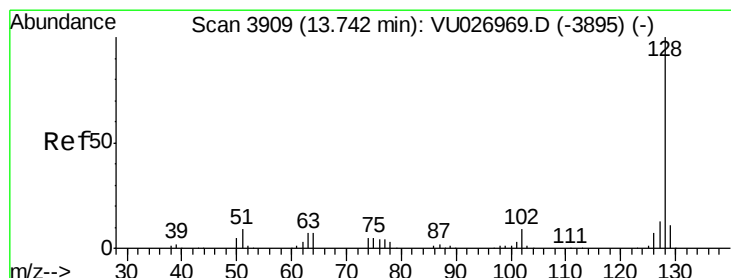
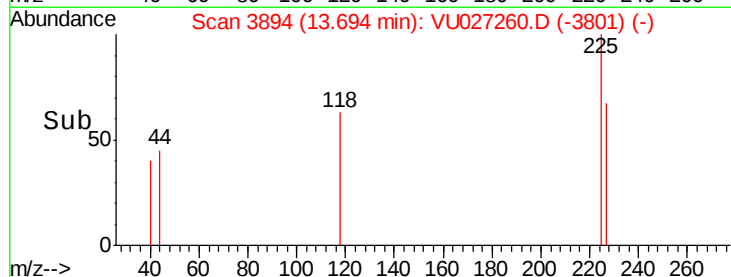
227 44.9 32.1 96.5



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



Time-->



#95

Naphthalene

Concen: 1.788 ug/l

RT: 13.75 min Scan# 3911

Delta R.T. 0.01 min

Lab File: VU027260.D

Acq: 28 Sep 2018 10:49

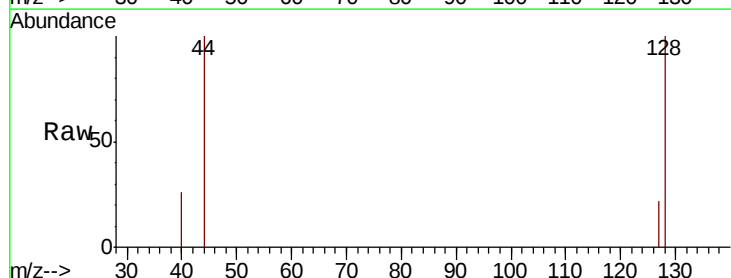
Tgt Ion:128 Resp: 619

Ion Ratio Lower Upper

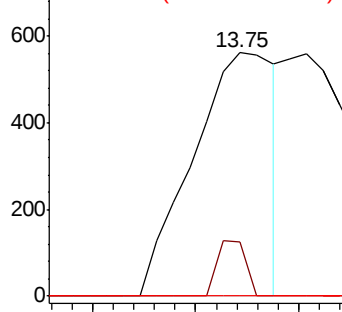
128 100

127 7.9 10.6 15.8#

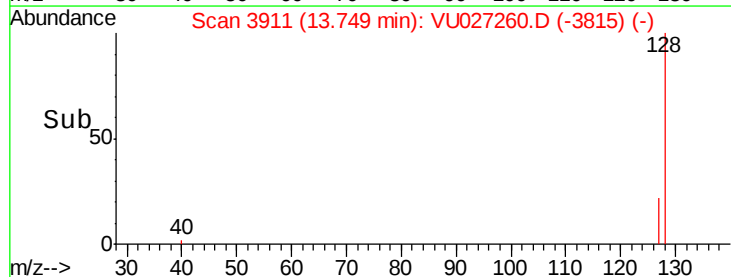
129 0.0 8.6 12.8#

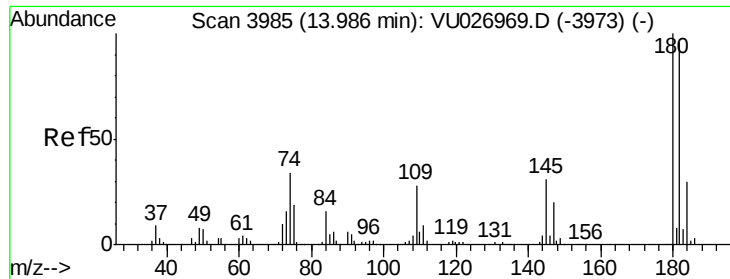


Abundance Ion 128.00 (127.70 to 128.70): V
Ion 127.00 (126.70 to 127.70): V
Ion 129.00 (128.70 to 129.70): V



Time-->





#96

1,2,3-Trichlorobenzene

Concen: 0.300 ug/l

RT: 14.00 min Scan# 3988

Delta R.T. 0.01 min

Lab File: VU027260.D

Acq: 28 Sep 2018 10:49

Instrument :

MSVOA_U

ClientSampleId :

TB1-082218

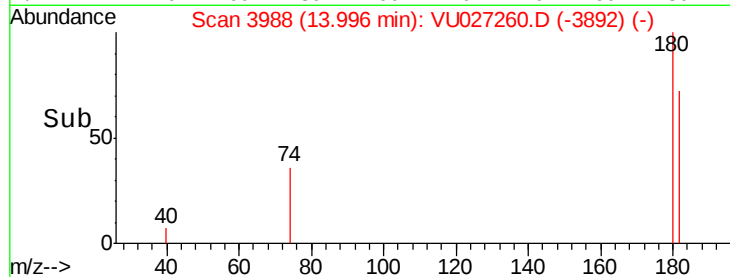
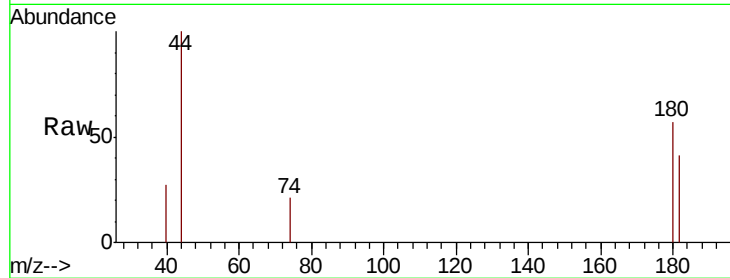
Tot Ion:180 Resp: 497

Ion Ratio Lower Upper

180 100

182 104.2 47.5 142.5

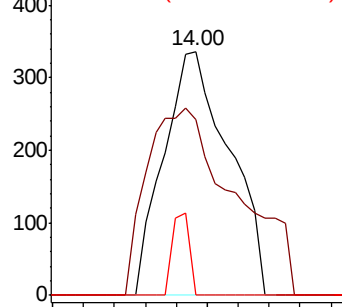
145 8.5 15.4 46.4#



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



Time--> 13.95