

Data Path : Z:\VOASRV\HPCHEM1\MSVOA U\DATA\U121718\
 Data File : VU028726.D
 Acq On : 17 Dec 2018 17:31
 Operator : MD/SY
 Sample : J6393-07DL 4X
 Misc : 5.0mL/MSVOA U/WATER
 ALS Vial : 19 Sample Multiplier: 1

Instrument :
 MSVOA_U
 ClientSampleId :

Quant Time: Dec 18 03:09:37 2018
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_U\METHOD\82U120618W.M
 Quant Title : SW846 8260
 QLast Update : Fri Dec 07 00:39:42 2018
 Response via : Initial Calibration

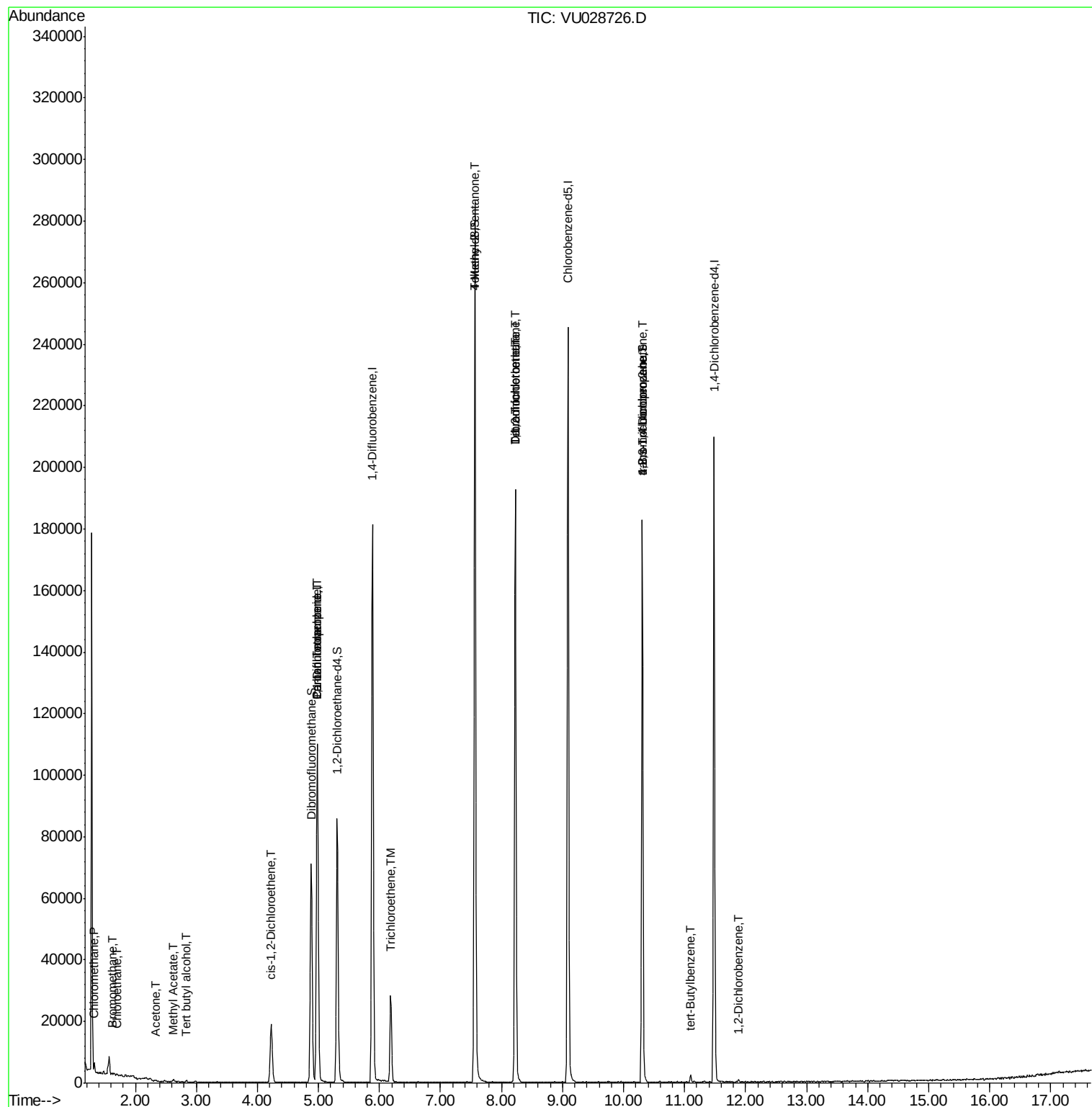
Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	4.98	168	81744	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	5.88	114	145123	50.00	ug/l	0.00
63) Chlorobenzene-d5	9.09	117	130257	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	11.48	152	51147	50.00	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	5.31	65	66054	52.95	ug/l	0.00
Spiked Amount	50.000		Recovery	=	105.90%	
35) Dibromofluoromethane	4.88	113	49876	54.61	ug/l	0.00
Spiked Amount	50.000		Recovery	=	109.22%	
50) Toluene-d8	7.57	98	187266	51.84	ug/l	0.00
Spiked Amount	50.000		Recovery	=	103.68%	
62) 4-Bromofluorobenzene	10.30	95	61737	45.72	ug/l	0.00
Spiked Amount	50.000		Recovery	=	91.44%	
Target Compounds						
					Qvalue	
3) Chloromethane	1.33	50	2312	1.148	ug/l	100
5) Bromomethane	1.62	94	139	0.237	ug/l	94
6) Chloroethane	1.69	64	168	0.204	ug/l #	43
11) Tert butyl alcohol	2.83	59	336	1.209	ug/l #	73
16) Acetone	2.32	43	506	0.622	ug/l #	44
18) Methyl Acetate	2.62	43	1231	0.583	ug/l #	82
27) cis-1,2-Dichloroethene	4.23	96	10799	9.311	ug/l	82
31) Cyclohexane	4.98	56	1965	Below Cal	#	1
36) 1,1-Dichloropropene	4.98	75	7252	4.567	ug/l #	50
38) Carbon Tetrachloride	4.98	117	8224	6.425	ug/l #	16
44) Trichloroethene	6.18	130	9529	9.163	ug/l	96
51) 4-Methyl-2-Pentanone	7.57	43	1036	0.506	ug/l #	1
55) 1,1,2-Trichloroethane	8.22	97	346	0.318	ug/l #	5
60) Dibromochloromethane	8.22	129	41122	38.601	ug/l #	10
64) Tetrachloroethene	8.23	164	42641	49.078	ug/l	98
76) 1,2,3-Trichloropropane	10.30	75	31045	23.770	ug/l #	36
81) trans-1,4-Dichloro-2-buten	10.30	75	31045	58.355	ug/l #	100
83) tert-Butylbenzene	11.10	119	1285	0.410	ug/l	94
91) 1,2-Dichlorobenzene	11.88	146	544	0.314	ug/l	97

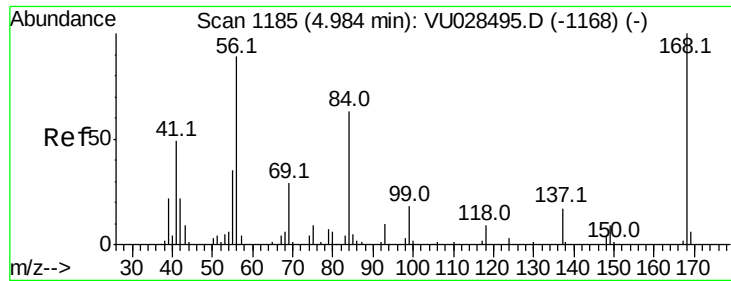
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 4.98 min Scan# 1185

Delta R.T. -0.00 min

Lab File: VU028726.D

Acq: 17 Dec 2018 17:31

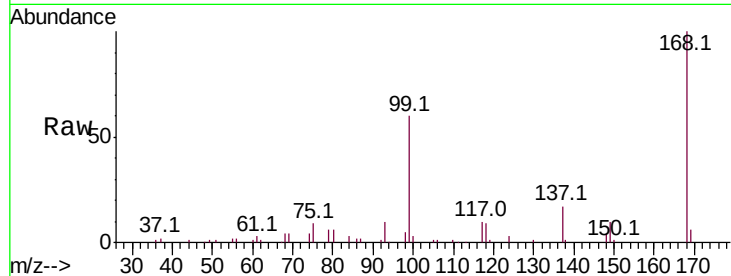
Instrument :
MSVOA_U
ClientSampled :

Tot Ion:168 Resp: 81744

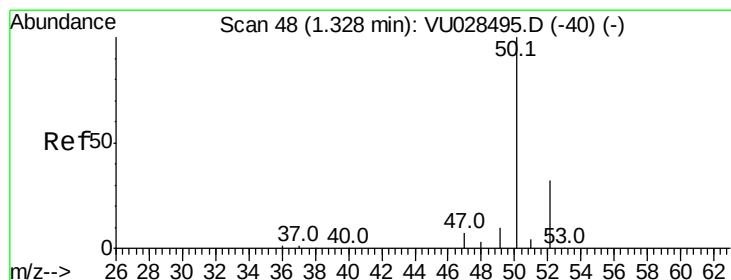
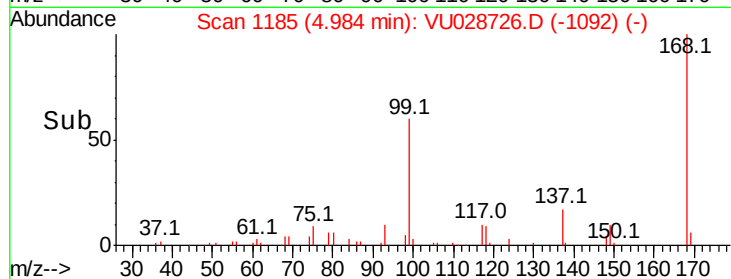
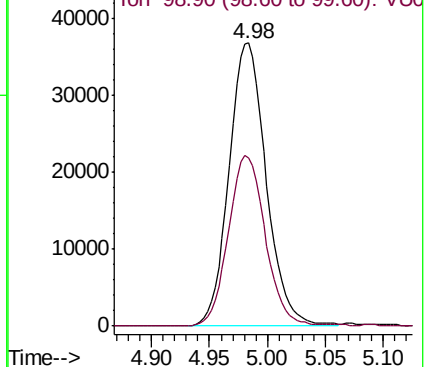
Ion Ratio Lower Upper

168 100

99 59.6 46.6 69.8



Abundance Ion 167.90 (167.60 to 168.60): VU028495.D (-1168) (-)



#3

Chloromethane

Concen: 1.148 ug/l

RT: 1.33 min Scan# 48

Delta R.T. -0.00 min

Lab File: VU028726.D

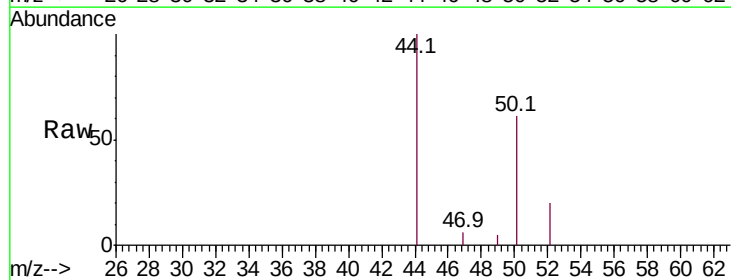
Acq: 17 Dec 2018 17:31

Tgt Ion: 50 Resp: 2312

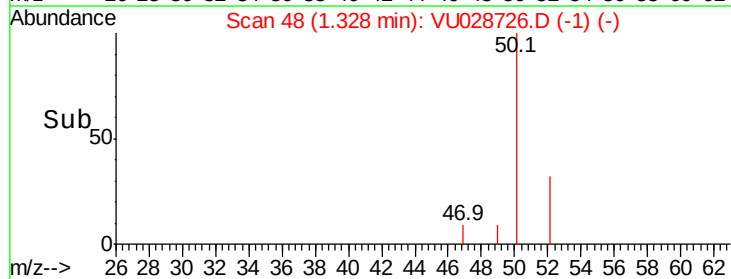
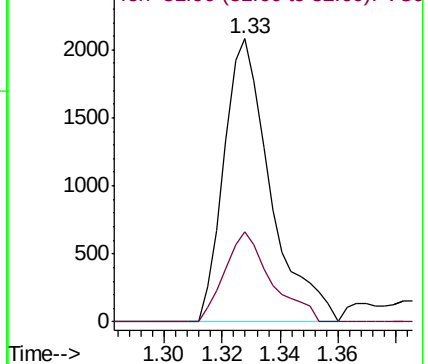
Ion Ratio Lower Upper

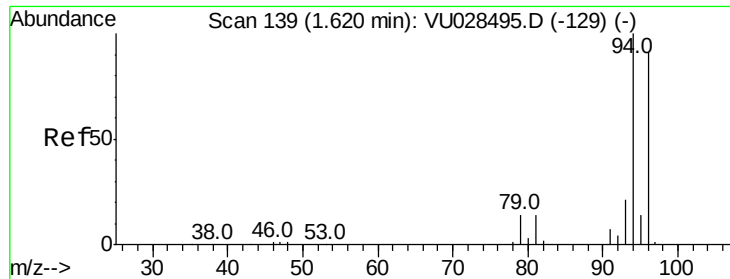
50 100

52 31.9 25.5 38.3



Abundance Ion 49.90 (49.60 to 50.60): VU028495.D (-40) (-)





#5

Bromomethane

Concen: 0.237 ug/l

RT: 1.62 min Scan# 139

Delta R.T. -0.00 min

Lab File: VU028726.D

Acq: 17 Dec 2018 17:31

Instrument :

MSVOA_U

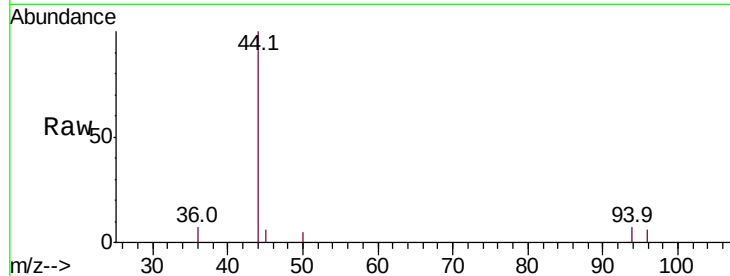
ClientSampleId :

Tot Ion: 94 Resp: 139

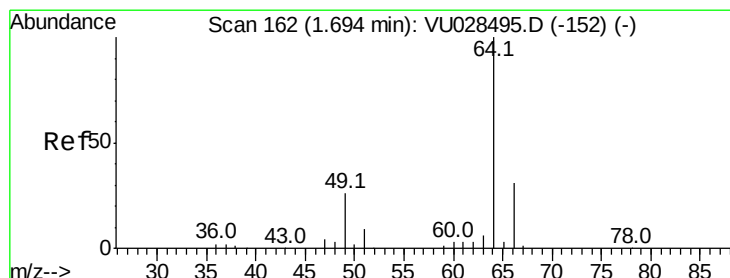
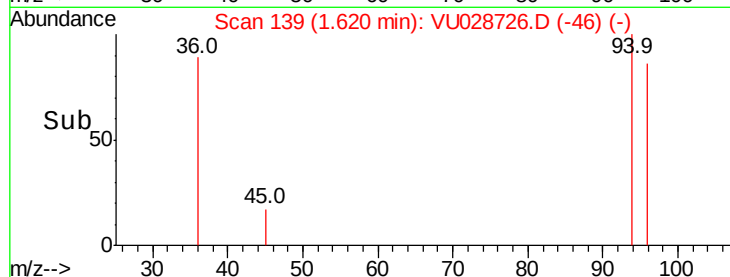
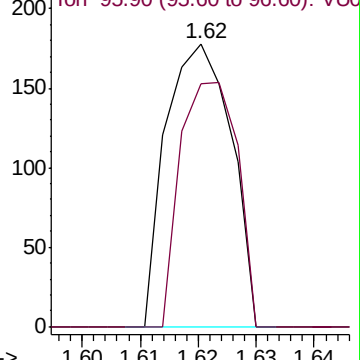
Ion Ratio Lower Upper

94 100

96 86.0 73.2 109.8



Abundance Ion 93.90 (93.60 to 94.60): VU028495.D (-129) (-)



#6

Chloroethane

Concen: 0.204 ug/l

RT: 1.69 min Scan# 161

Delta R.T. -0.00 min

Lab File: VU028726.D

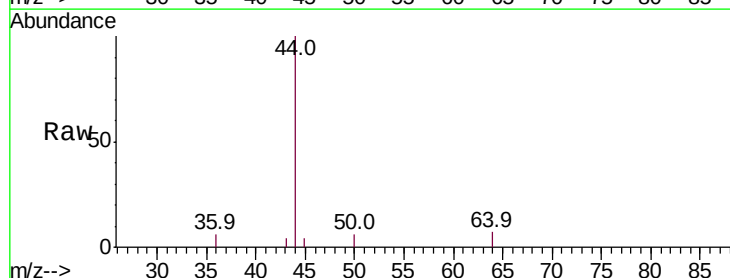
Acq: 17 Dec 2018 17:31

Tgt Ion: 64 Resp: 168

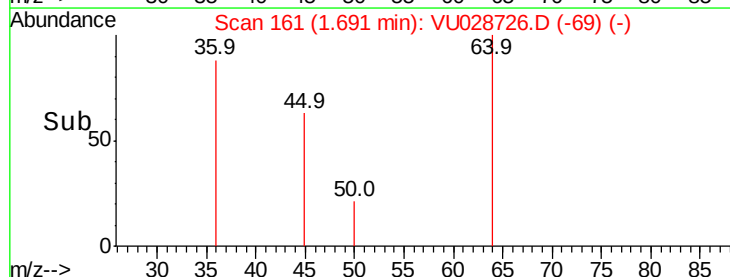
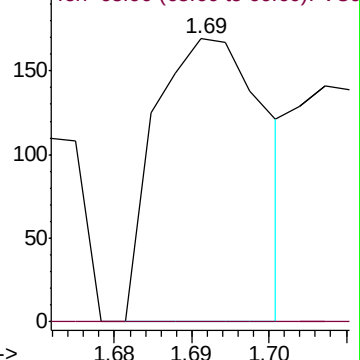
Ion Ratio Lower Upper

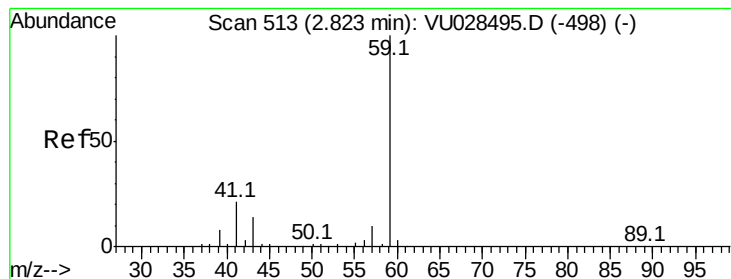
64 100

66 0.0 25.0 37.6#



Abundance Ion 63.90 (63.60 to 64.60): VU028495.D (-152) (-)



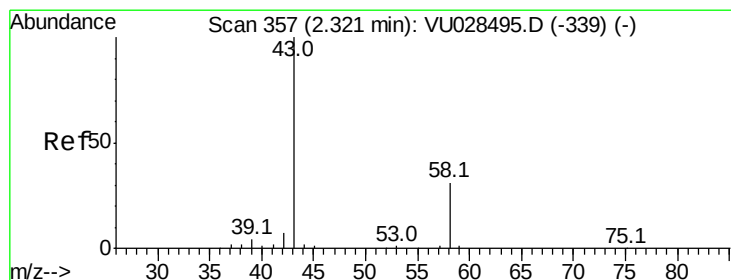
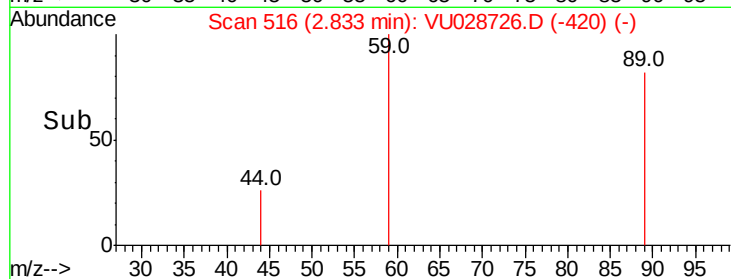
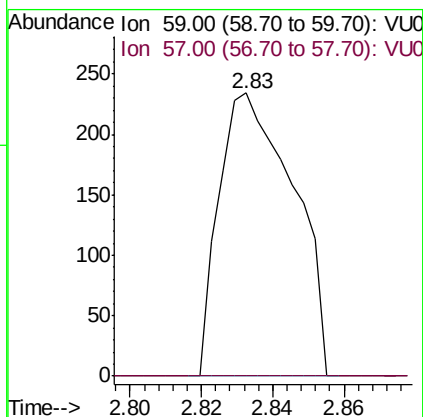
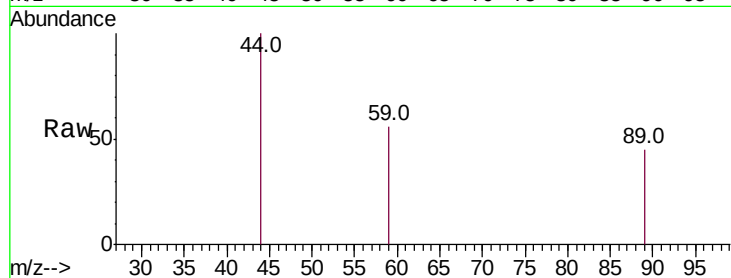


#11

Tert butyl alcohol
 Concen: 1.209 ug/l
 RT: 2.83 min Scan# 516
 Delta R.T. 0.01 min
 Lab File: VU028726.D
 Acq: 17 Dec 2018 17:31

Instrument :
 MSVOA_U
 ClientSampled :

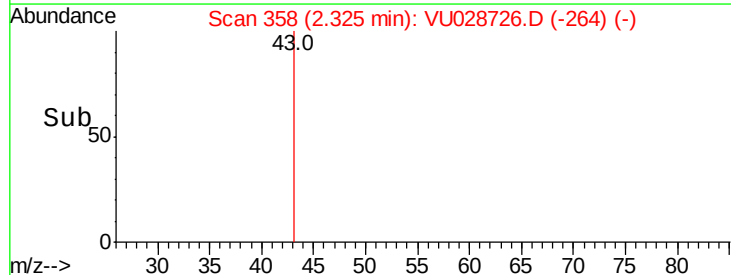
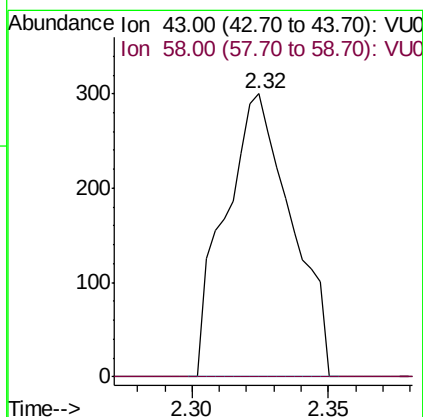
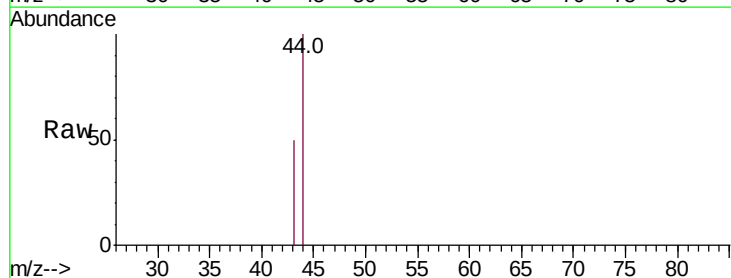
Tot Ion: 59 Resp: 336
 Ion Ratio Lower Upper
 59 100
 57 0.0 8.0 12.0#

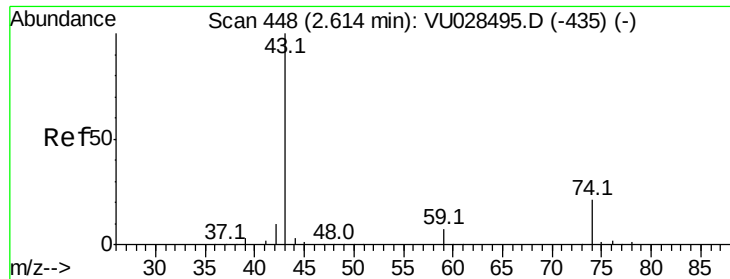


#16

Acetone
 Concen: 0.622 ug/l
 RT: 2.32 min Scan# 358
 Delta R.T. 0.00 min
 Lab File: VU028726.D
 Acq: 17 Dec 2018 17:31

Tgt Ion: 43 Resp: 506
 Ion Ratio Lower Upper
 43 100
 58 0.0 24.6 37.0#

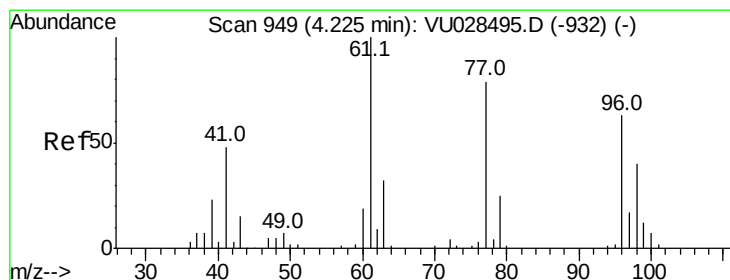
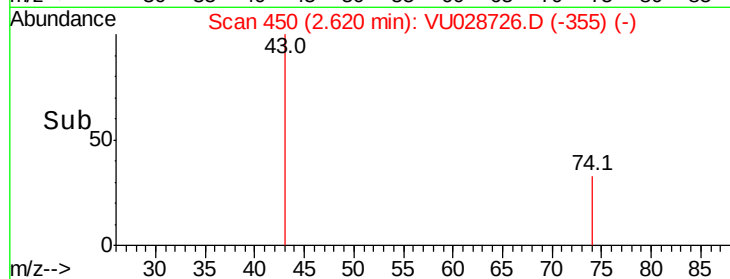
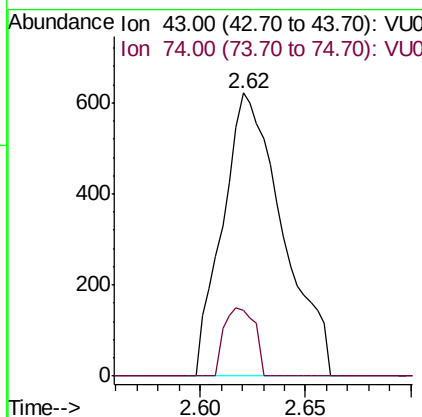
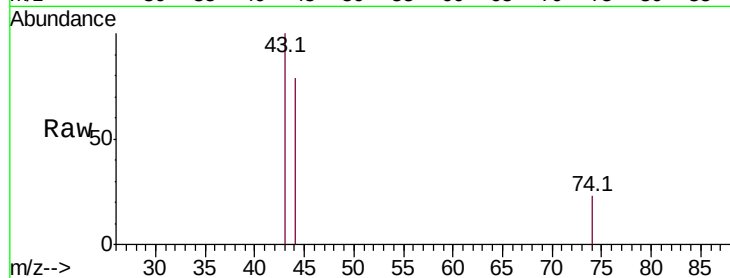




#18
Methvl Acetate
Concen: 0.583 ug/l
RT: 2.62 min Scan# 450
Delta R.T. 0.01 min
Lab File: VU028726.D
Acq: 17 Dec 2018 17:31

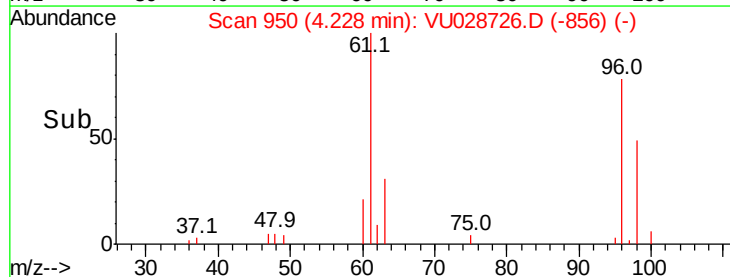
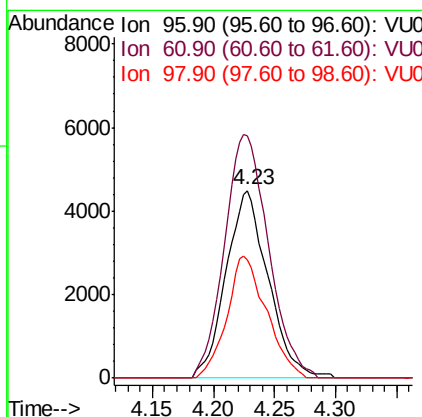
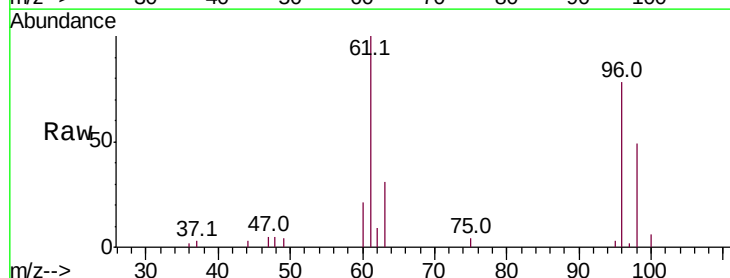
Instrument :
MSVOA_U
ClientSampleId :

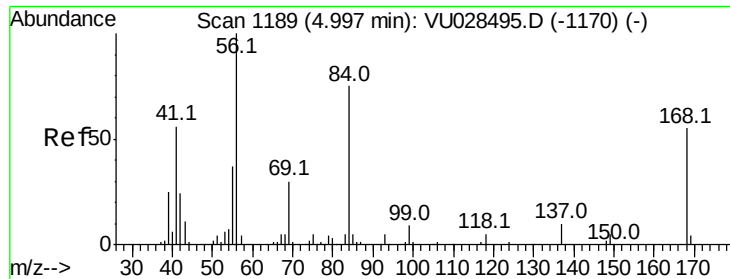
Tot Ion: 43 Resp: 1231
Ion Ratio Lower Upper
43 100
74 12.1 16.4 24.6#



#27
cis-1,2-Dichloroethene
Concen: 9.311 ug/l
RT: 4.23 min Scan# 950
Delta R.T. 0.00 min
Lab File: VU028726.D
Acq: 17 Dec 2018 17:31

Tgt Ion: 96 Resp: 10799
Ion Ratio Lower Upper
96 100
61 135.6 0.0 332.4
98 60.9 0.0 129.0

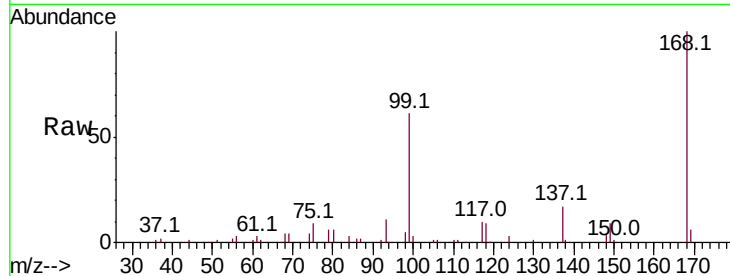




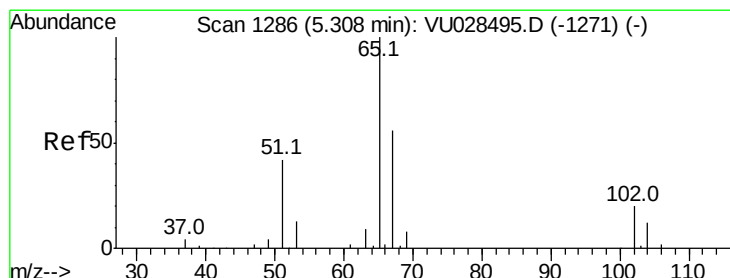
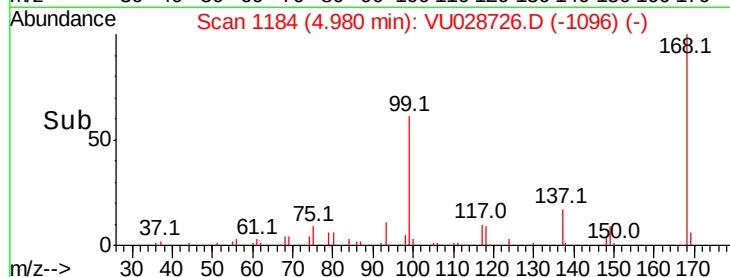
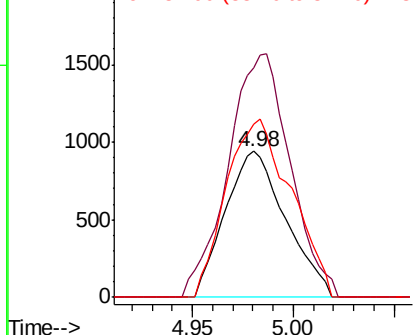
#31
Cyclohexane
Concen: Below Cal
RT: 4.98 min Scan# 1184
Delta R.T. -0.02 min
Lab File: VU028726.D
Acq: 17 Dec 2018 17:31

Instrument :
MSVOA_U
ClientSampled :

Tot Ion	Ratio	Lower	Upper
56	100		
69	157.3	24.0	36.0#
84	118.8	59.7	89.5#

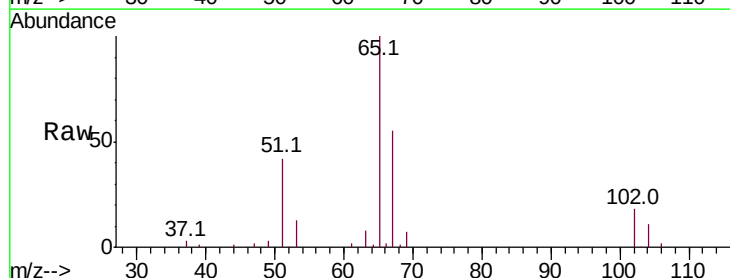


Abundance Ion 56.00 (55.70 to 56.70): VU0
Ion 69.00 (68.70 to 69.70): VU0
Ion 84.00 (83.70 to 84.70): VU0

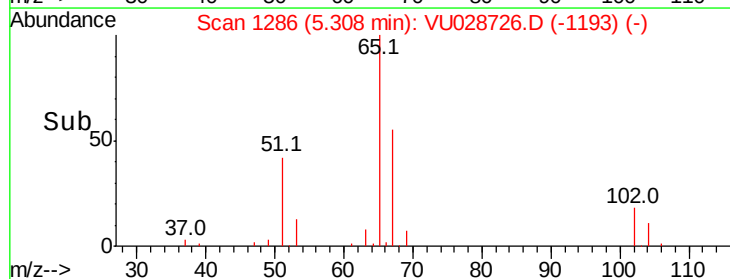
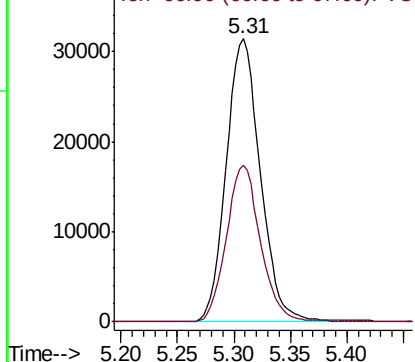


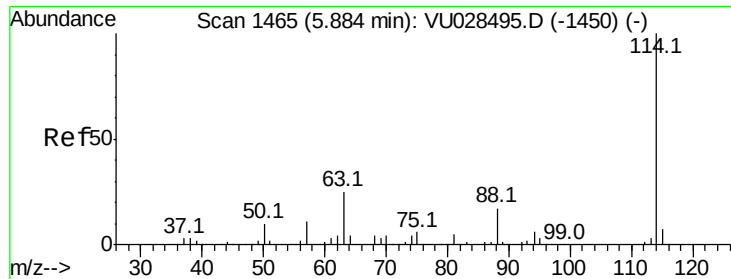
#33
1,2-Dichloroethane-d4
Concen: 52.951 ug/l
RT: 5.31 min Scan# 1286
Delta R.T. -0.00 min
Lab File: VU028726.D
Acq: 17 Dec 2018 17:31

Tgt Ion	Ratio	Lower	Upper
65	100		
67	55.0	0.0	110.6



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: 5.88 min Scan# 1465

Delta R.T. -0.00 min

Lab File: VU028726.D

Acq: 17 Dec 2018 17:31

Instrument :

MSVOA_U

ClientSampleId :

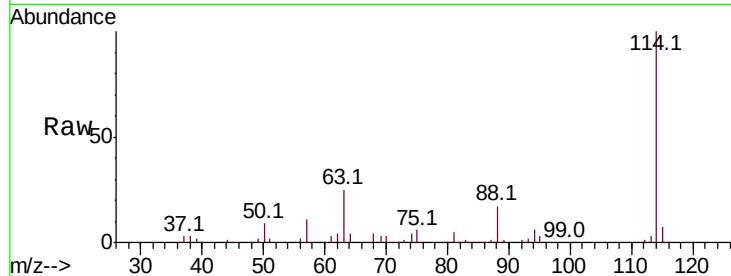
Tot Ion:114 Resp: 145123

Ion Ratio Lower Upper

114 100

63 24.9 0.0 49.2

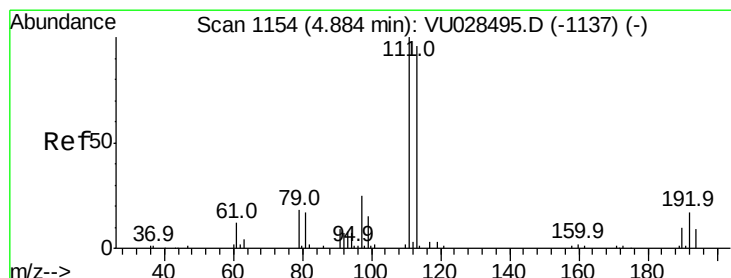
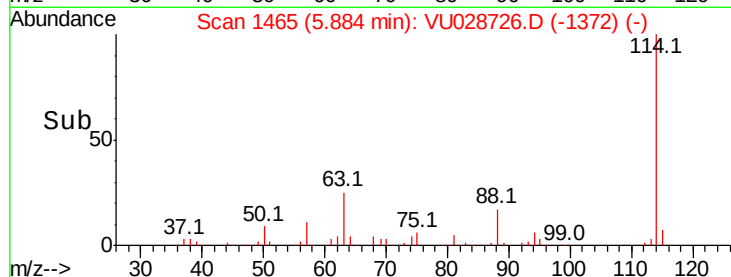
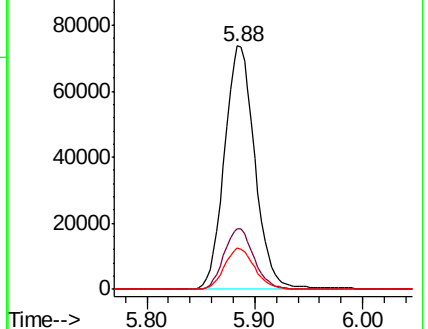
88 16.8 0.0 33.4



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: 54.613 ug/l

RT: 4.88 min Scan# 1153

Delta R.T. -0.00 min

Lab File: VU028726.D

Acq: 17 Dec 2018 17:31

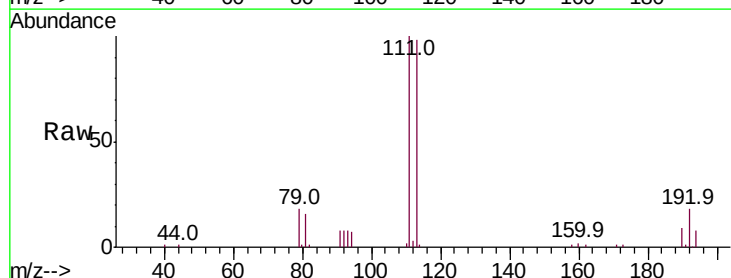
Tgt Ion:113 Resp: 49876

Ion Ratio Lower Upper

113 100

111 102.3 83.4 125.0

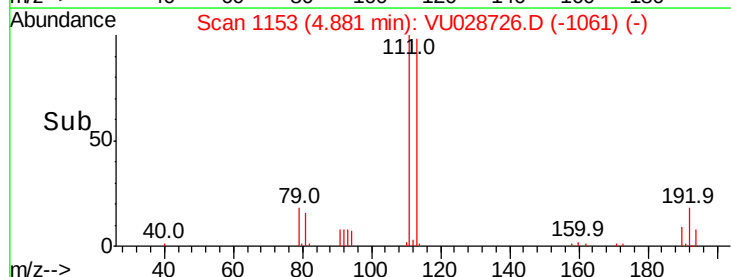
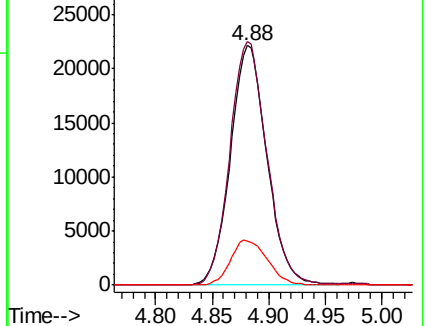
192 18.8 14.8 22.2

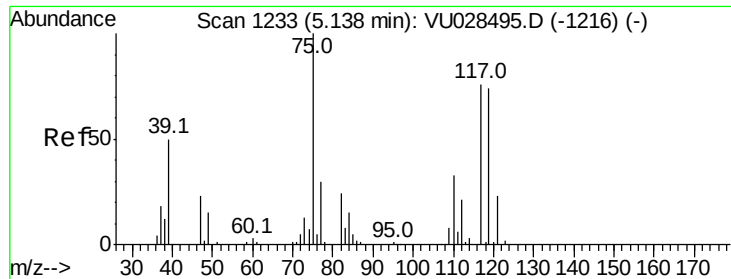


Abundance Ion 112.80 (112.50 to 113.50): V

Ion 110.80 (110.50 to 111.50): V

Ion 191.70 (191.40 to 192.40): V

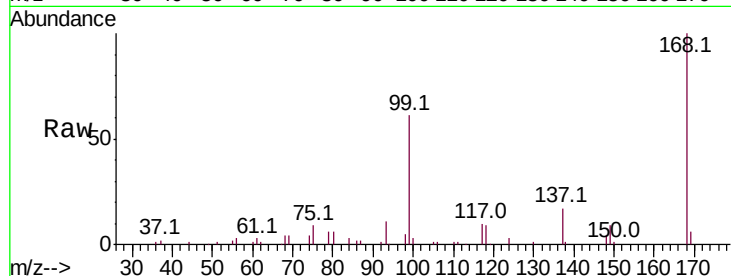




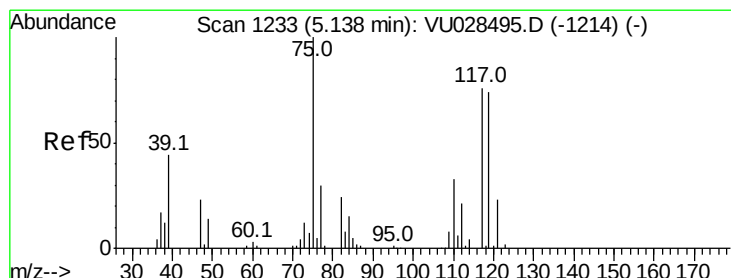
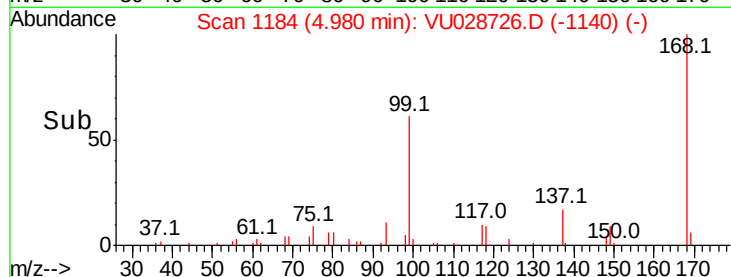
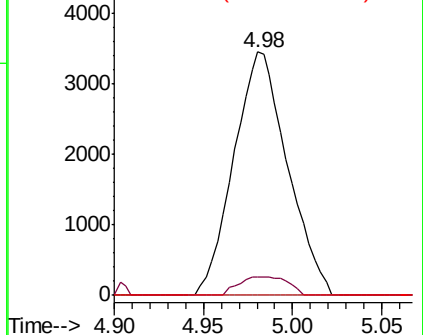
#36
 1,1-Dichloropropene
 Concen: 4.567 ug/l
 RT: 4.98 min Scan# 1184
 Delta R.T. -0.16 min
 Lab File: VU028726.D
 Acq: 17 Dec 2018 17:31

Instrument :
 MSVOA_U
 ClientSampled :

Tot Ion	Ratio	Lower	Upper
75	100		
110	6.9	16.1	48.2#
77	0.0	24.5	36.7#

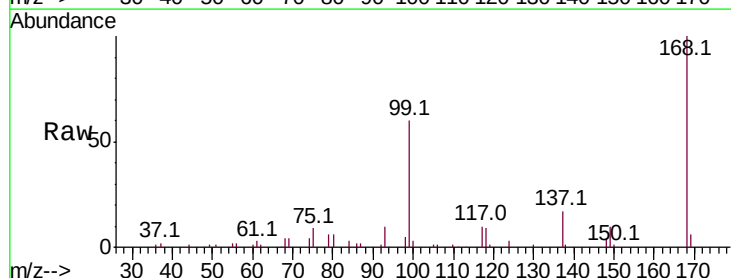


Abundance Ion 74.90 (74.60 to 75.60): VU0
 Ion 109.90 (109.60 to 110.60): V
 Ion 76.90 (76.60 to 77.60): VU0

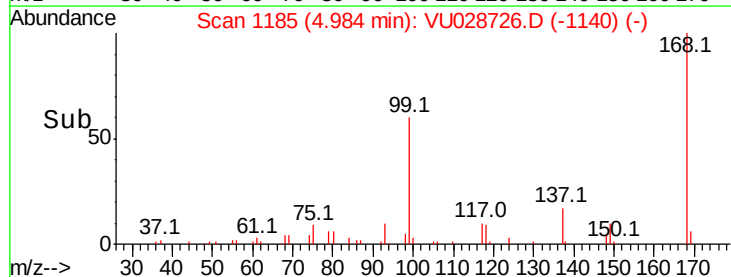
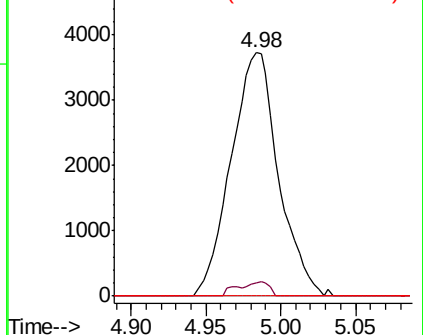


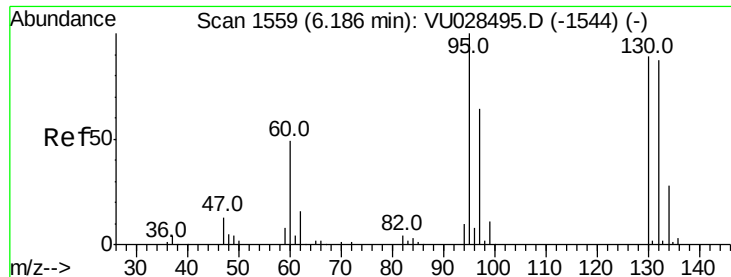
#38
 Carbon Tetrachloride
 Concen: 6.425 ug/l
 RT: 4.98 min Scan# 1185
 Delta R.T. -0.15 min
 Lab File: VU028726.D
 Acq: 17 Dec 2018 17:31

Tgt Ion	Ratio	Lower	Upper
117	100		
119	5.6	77.6	116.4#
121	0.0	24.6	36.8#



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: 9.163 ug/l

RT: 6.18 min Scan# 1558

Delta R.T. -0.00 min

Lab File: VU028726.D

Acq: 17 Dec 2018 17:31

Instrument :

MSVOA_U

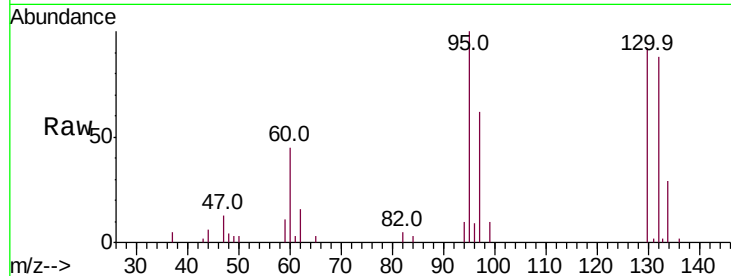
ClientSampleId :

Tot Ion:130 Resp: 9529

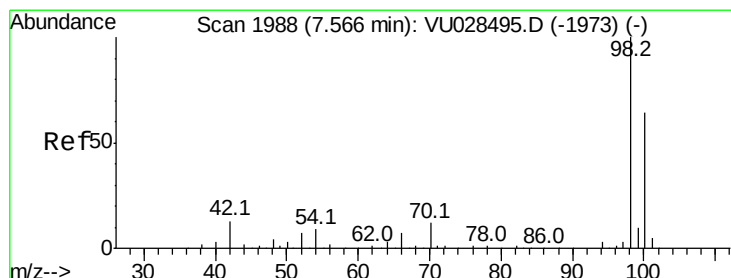
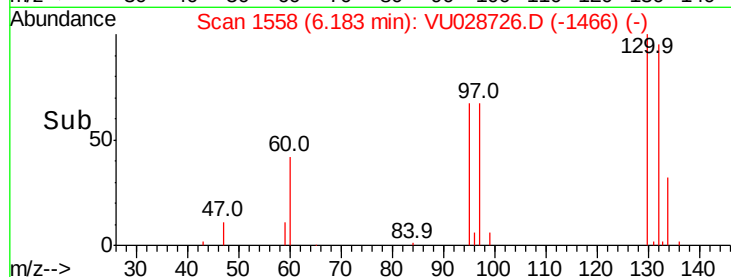
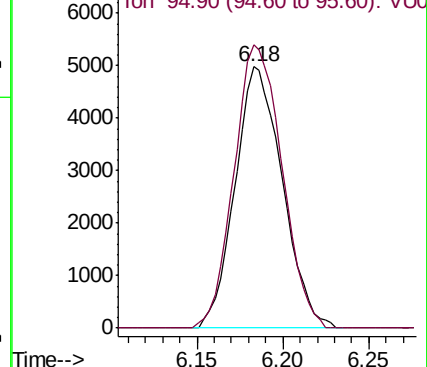
Ion Ratio Lower Upper

130 100

95 108.2 0.0 224.0



Abundance Ion 129.80 (129.50 to 130.50): VU028495.D (-1544) (-)



#50

Toluene-d8

Concen: 51.835 ug/l

RT: 7.57 min Scan# 1988

Delta R.T. -0.00 min

Lab File: VU028726.D

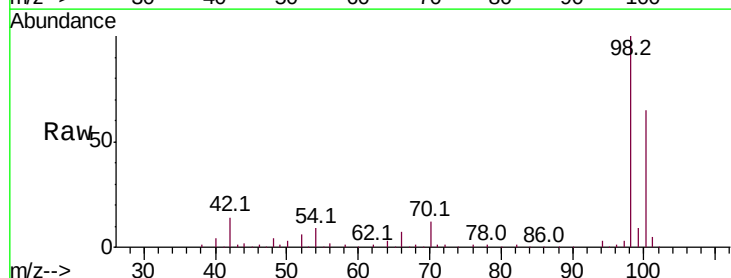
Acq: 17 Dec 2018 17:31

Tgt Ion: 98 Resp: 187266

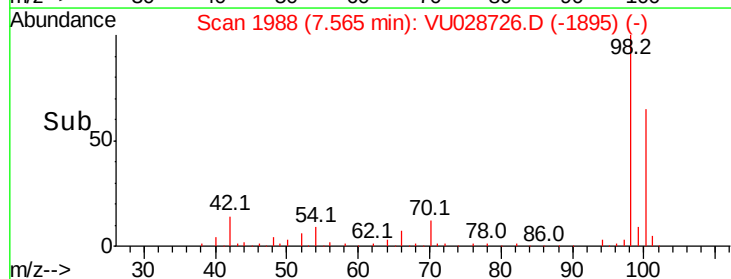
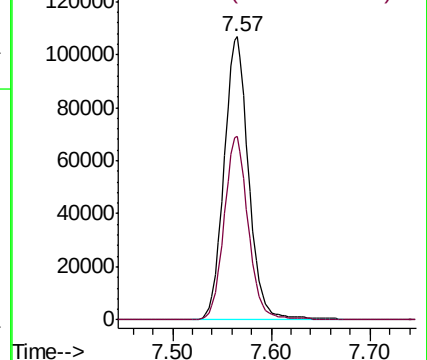
Ion Ratio Lower Upper

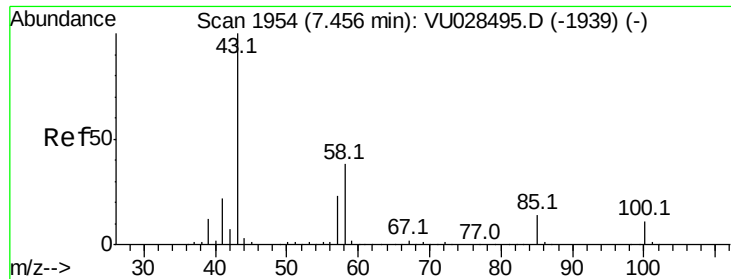
98 100

100 63.7 51.0 76.6



Abundance Ion 98.00 (97.70 to 98.70): VU028495.D (-1973) (-)





#51

4-Methyl-2-Pentanone

Concen: 0.506 ug/l

RT: 7.57 min Scan# 1988

Delta R.T. 0.11 min

Lab File: VU028726.D

Acq: 17 Dec 2018 17:31

Instrument :

MSVOA_U

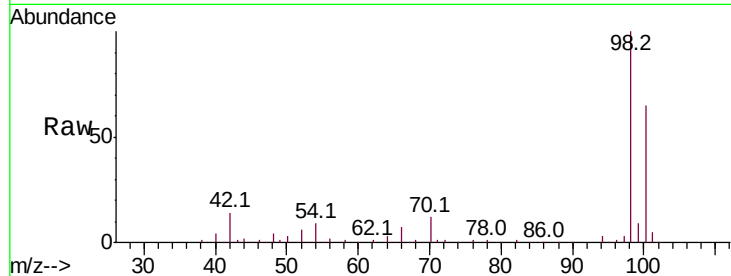
ClientSampled :

Tot Ion: 43 Resp: 1036

Ion Ratio Lower Upper

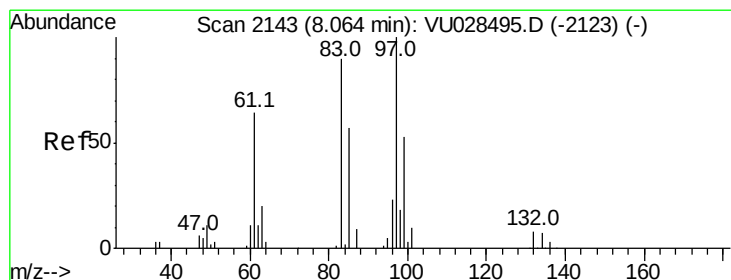
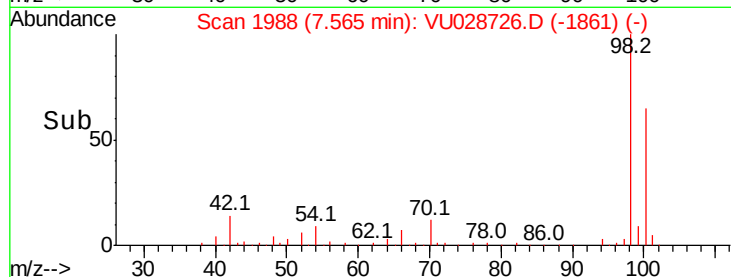
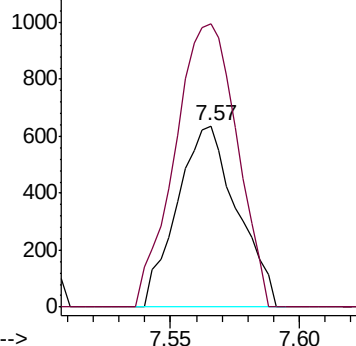
43 100

58 161.4 30.2 45.2#



Abundance Ion 43.00 (42.70 to 43.70): VU0

Ion 58.00 (57.70 to 58.70): VU0



#55

1,1,2-Trichloroethane

Concen: 0.318 ug/l

RT: 8.22 min Scan# 2192

Delta R.T. 0.16 min

Lab File: VU028726.D

Acq: 17 Dec 2018 17:31

Tgt Ion: 97 Resp: 346

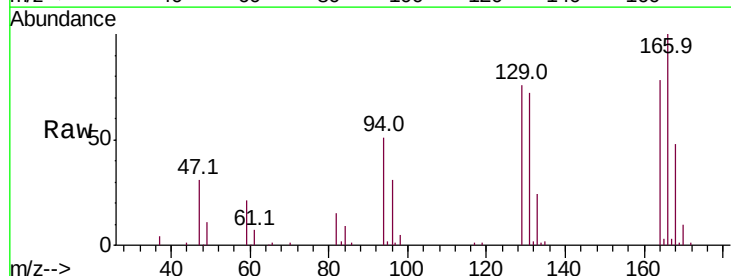
Ion Ratio Lower Upper

97 100

83 200.7 72.4 108.6#

85 0.0 46.0 69.0#

99 0.0 47.4 71.2#

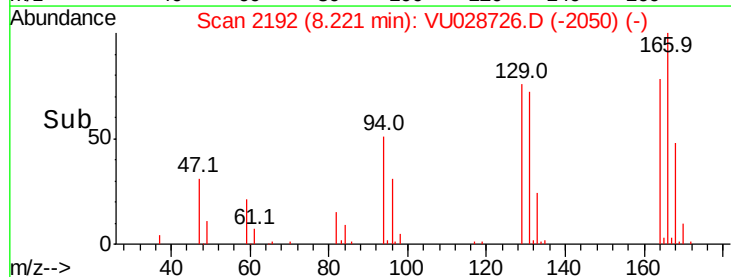
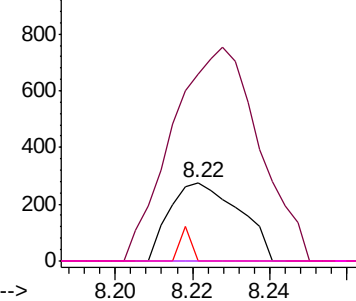


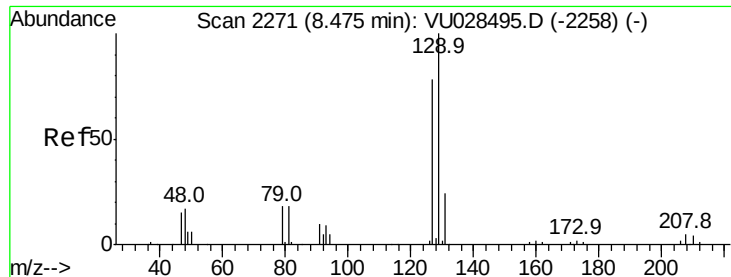
Abundance Ion 96.90 (96.60 to 97.60): VU0

Ion 82.90 (82.60 to 83.60): VU0

Ion 84.90 (84.60 to 85.60): VU0

Ion 98.90 (98.60 to 99.60): VU0





#60

Dibromochloromethane

Concen: 38.601 ug/l

RT: 8.22 min Scan# 2193

Delta R.T. -0.25 min

Lab File: VU028726.D

Acq: 17 Dec 2018 17:31

Instrument :

MSVOA_U

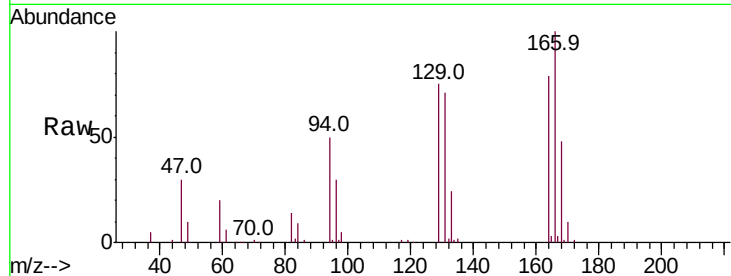
ClientSampled :

Tot Ion:129 Resp: 41122

Ion Ratio Lower Upper

129 100

127 0.0 39.1 117.3#



Abundance Ion 128.80 (128.50 to 129.50): V

Ion 126.80 (126.50 to 127.50): V

8.22

25000

20000

15000

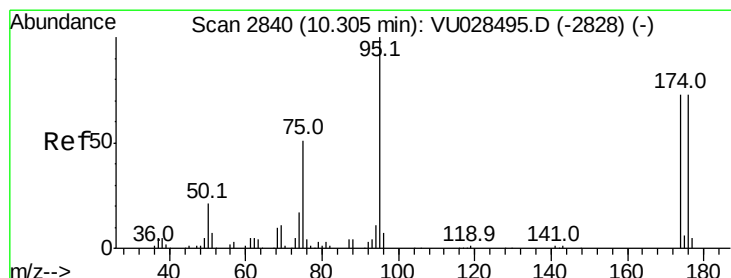
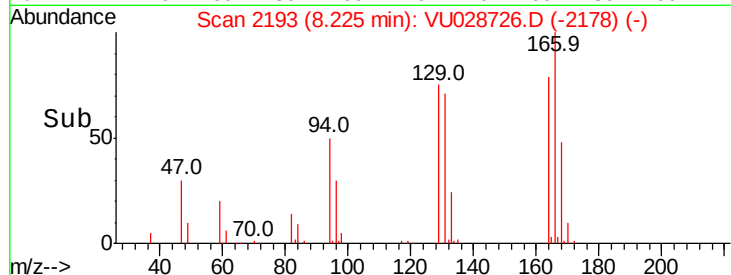
10000

5000

0

8.15 8.20 8.25 8.30 8.35

Time-->



#62

4-Bromofluorobenzene

Concen: 45.721 ug/l

RT: 10.30 min Scan# 2840

Delta R.T. -0.00 min

Lab File: VU028726.D

Acq: 17 Dec 2018 17:31

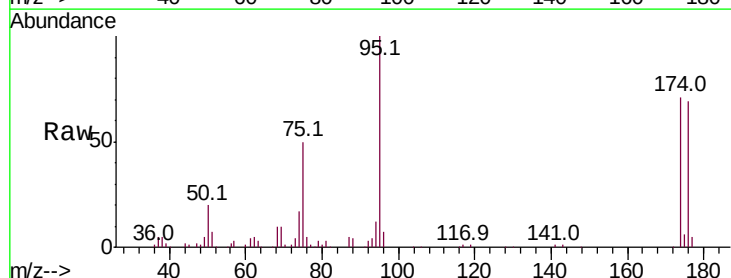
Tgt Ion: 95 Resp: 61737

Ion Ratio Lower Upper

95 100

174 74.5 0.0 150.4

176 71.6 0.0 145.2



Abundance Ion 94.90 (94.60 to 95.60): VU0

Ion 173.80 (173.50 to 174.50): V

Ion 175.80 (175.50 to 176.50): V

50000

40000

30000

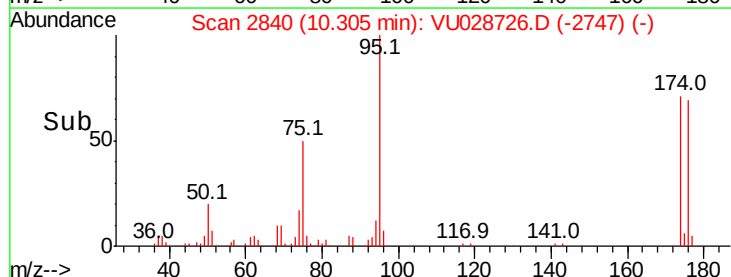
20000

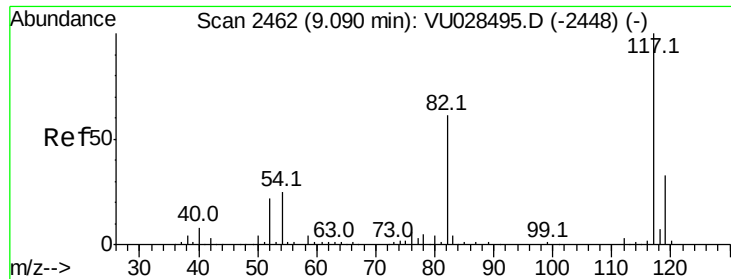
10000

0

10.25 10.30 10.35 10.40

Time-->

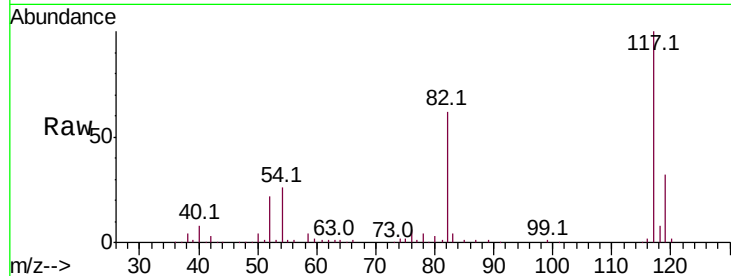




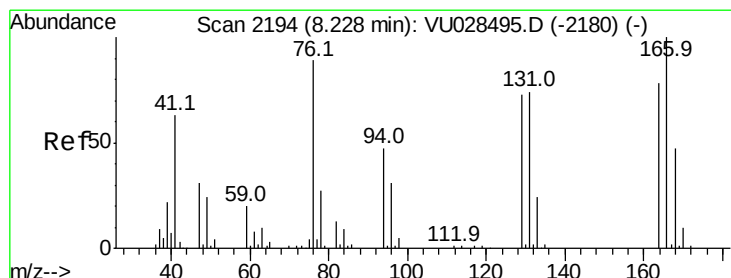
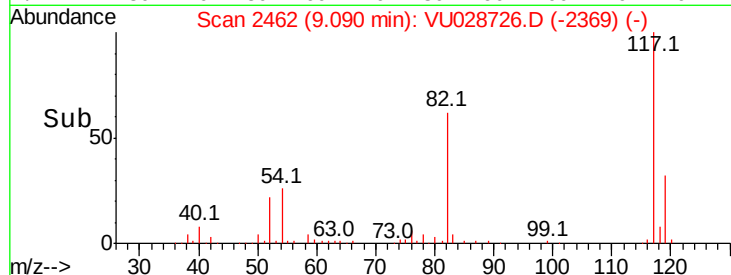
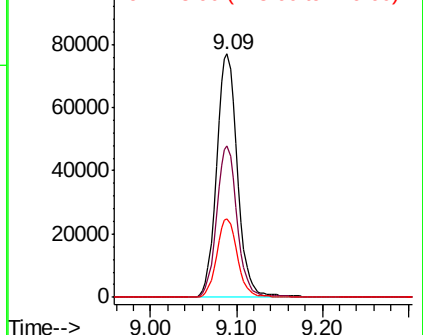
#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 9.09 min Scan# 2462
Delta R.T. -0.00 min
Lab File: VU028726.D
Acq: 17 Dec 2018 17:31

Instrument :
MSVOA_U
ClientSampled :

Tot Ion:117 Resp: 130257
Ion Ratio Lower Upper
117 100
82 62.3 48.9 73.3
119 32.3 26.2 39.4

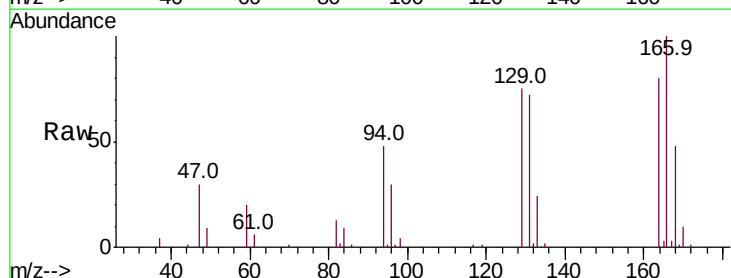


Abundance Ion 116.90 (116.60 to 117.60): V
Ion 82.00 (81.70 to 82.70): V
Ion 118.90 (118.60 to 119.60): V

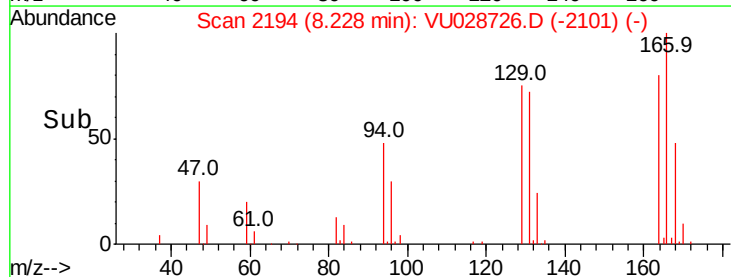
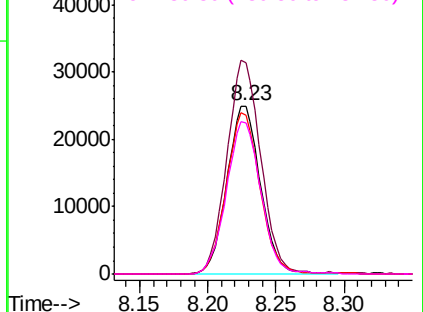


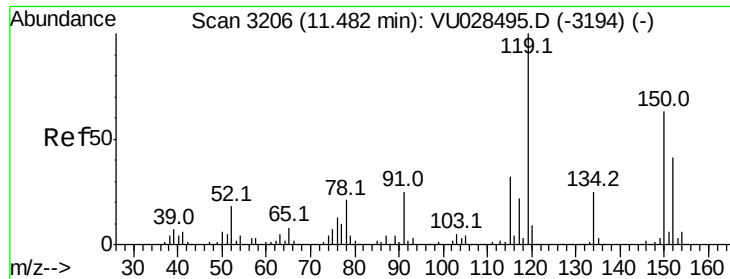
#64
Tetrachloroethene
Concen: 49.078 ug/l
RT: 8.23 min Scan# 2194
Delta R.T. -0.00 min
Lab File: VU028726.D
Acq: 17 Dec 2018 17:31

Tgt Ion:164 Resp: 42641
Ion Ratio Lower Upper
164 100
166 125.8 101.9 152.9
129 94.4 74.9 112.3
131 90.2 75.4 113.0



Abundance Ion 163.80 (163.50 to 164.50): V
Ion 165.80 (165.50 to 166.50): V
Ion 128.80 (128.50 to 129.50): V
Ion 130.80 (130.50 to 131.50): V





#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

RT: 11.48 min Scan# 3206

Delta R.T. -0.00 min

Lab File: VU028726.D

Acq: 17 Dec 2018 17:31

Instrument :

MSVOA_U

ClientSampleId :

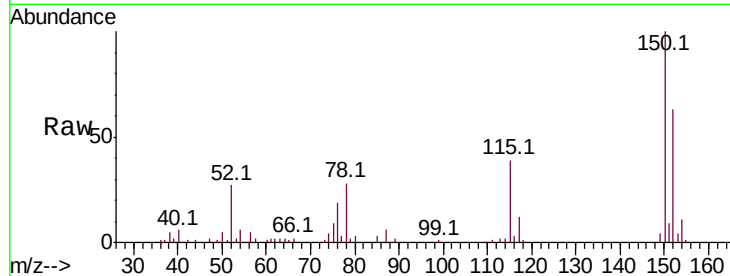
Tot Ion:152 Resp: 51147

Ion Ratio Lower Upper

152 100

115 59.7 42.7 128.1

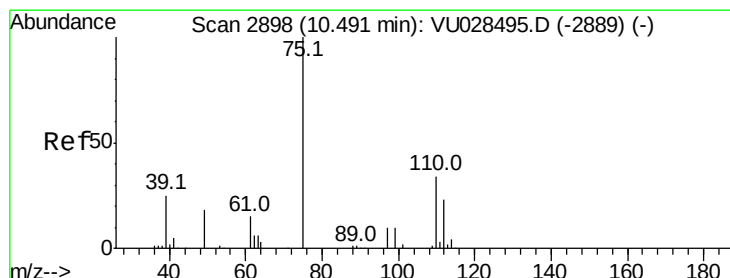
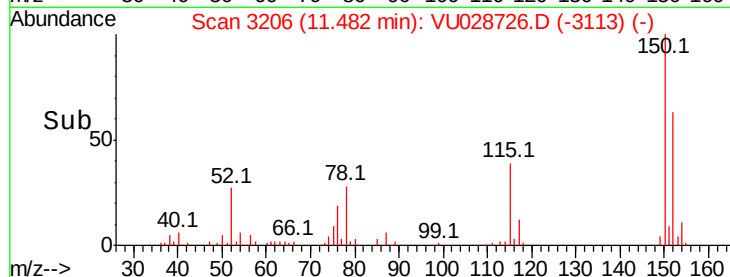
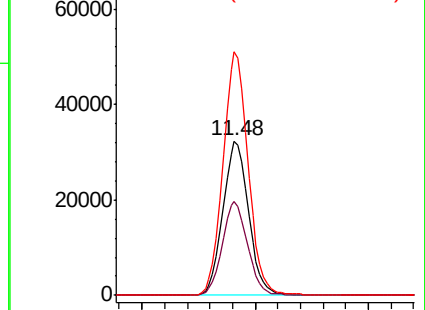
150 154.2 0.0 346.0



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: 23.770 ug/l

RT: 10.30 min Scan# 2840

Delta R.T. -0.19 min

Lab File: VU028726.D

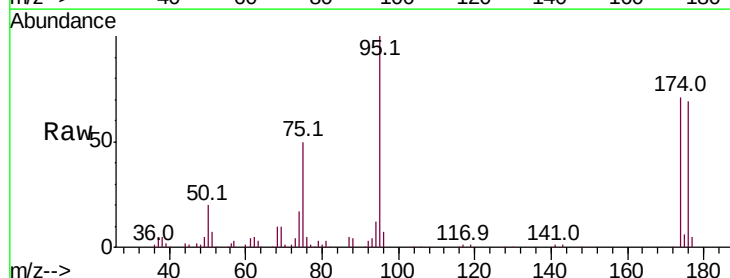
Acq: 17 Dec 2018 17:31

Tgt Ion: 75 Resp: 31045

Ion Ratio Lower Upper

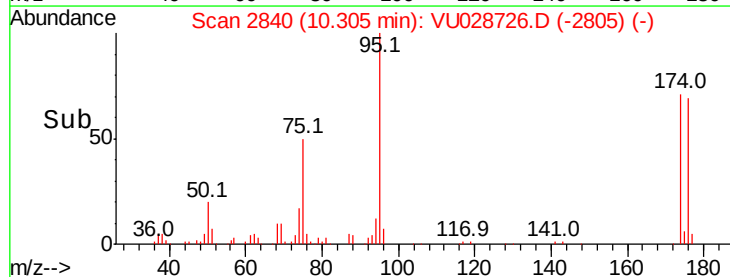
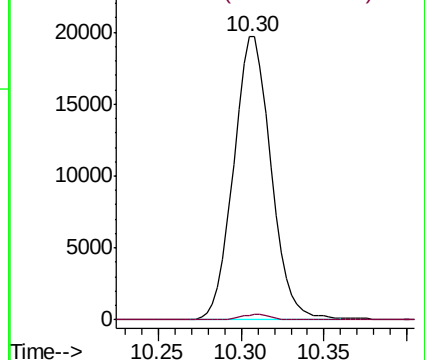
75 100

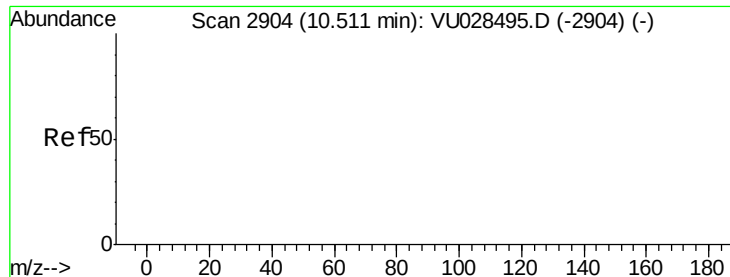
77 1.4 20.8 62.4#



Abundance Ion 74.90 (74.60 to 75.60): VU0

Ion 77.00 (76.70 to 77.70): VU0

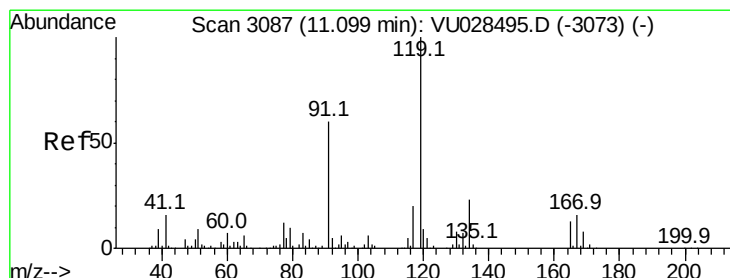
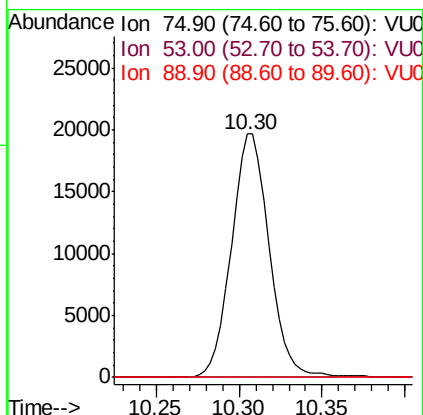
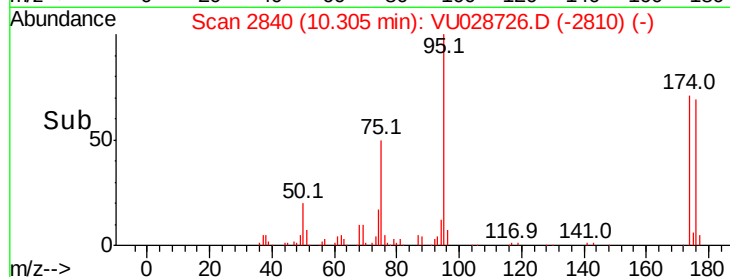
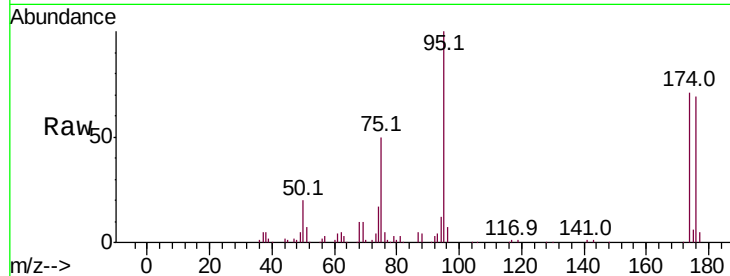




#81
trans-1,4-Dichloro-2-butene
Concen: 58.355 ug/l
RT: 10.30 min Scan# 2840
Delta R.T. -0.21 min
Lab File: VU028726.D
Acq: 17 Dec 2018 17:31

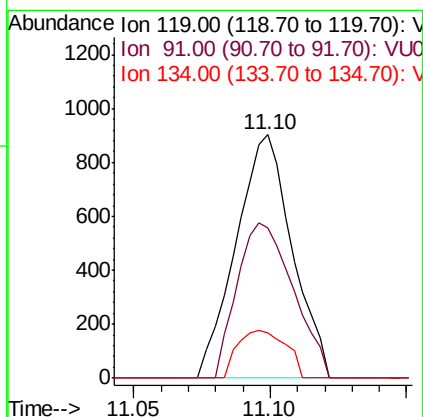
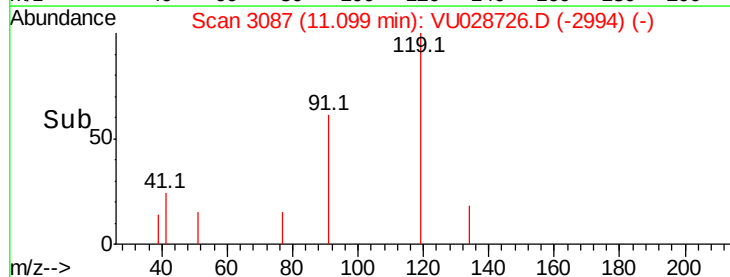
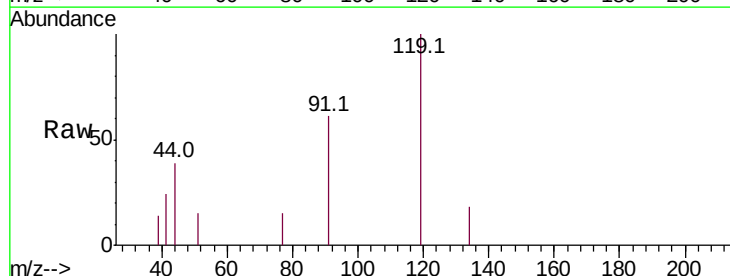
Instrument :
MSVOA_U
ClientSampled :

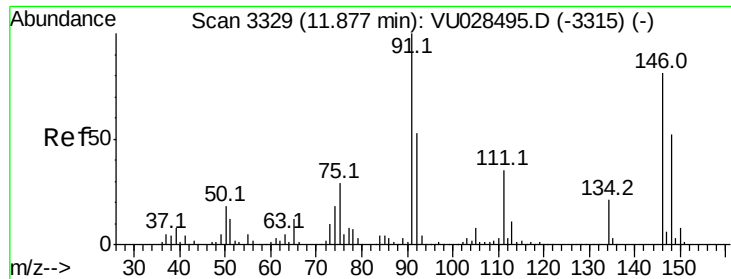
Tot Ion: 75 Resp: 31045
Ion Ratio Lower Upper
75 100
53 0.0 0.0 0.0
89 0.0 0.0 0.0



#83
tert-Butylbenzene
Concen: 0.410 ug/l
RT: 11.10 min Scan# 3087
Delta R.T. -0.00 min
Lab File: VU028726.D
Acq: 17 Dec 2018 17:31

Tgt Ion: 119 Resp: 1285
Ion Ratio Lower Upper
119 100
91 63.9 30.3 91.0
134 17.0 11.2 33.5





#91

1,2-Dichlorobenzene

Concen: 0.314 ug/l

RT: 11.88 min Scan# 3330

Delta R.T. 0.00 min

Lab File: VU028726.D

Acq: 17 Dec 2018 17:31

Instrument :

MSVOA_U

ClientSampleId :

Tot Ion:146 Resp: 544

Ion Ratio Lower Upper

146 100

111 42.8 21.1 63.4

148 65.6 31.4 94.2

