

Data Path : Z:\VOASRV\HPCHEM1\MSVOA U\DATA\VU121518\
 Data File : VU028693.D
 Acq On : 14 Dec 2018 19:16
 Operator : MD/SY
 Sample : J6393-07
 Misc : 5.0mL/MSVOA U/WATER
 ALS Vial : 15 Sample Multiplier: 1

Instrument :
 MSVOA_U
 ClientSampleId :

Quant Time: Dec 15 00:23:19 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

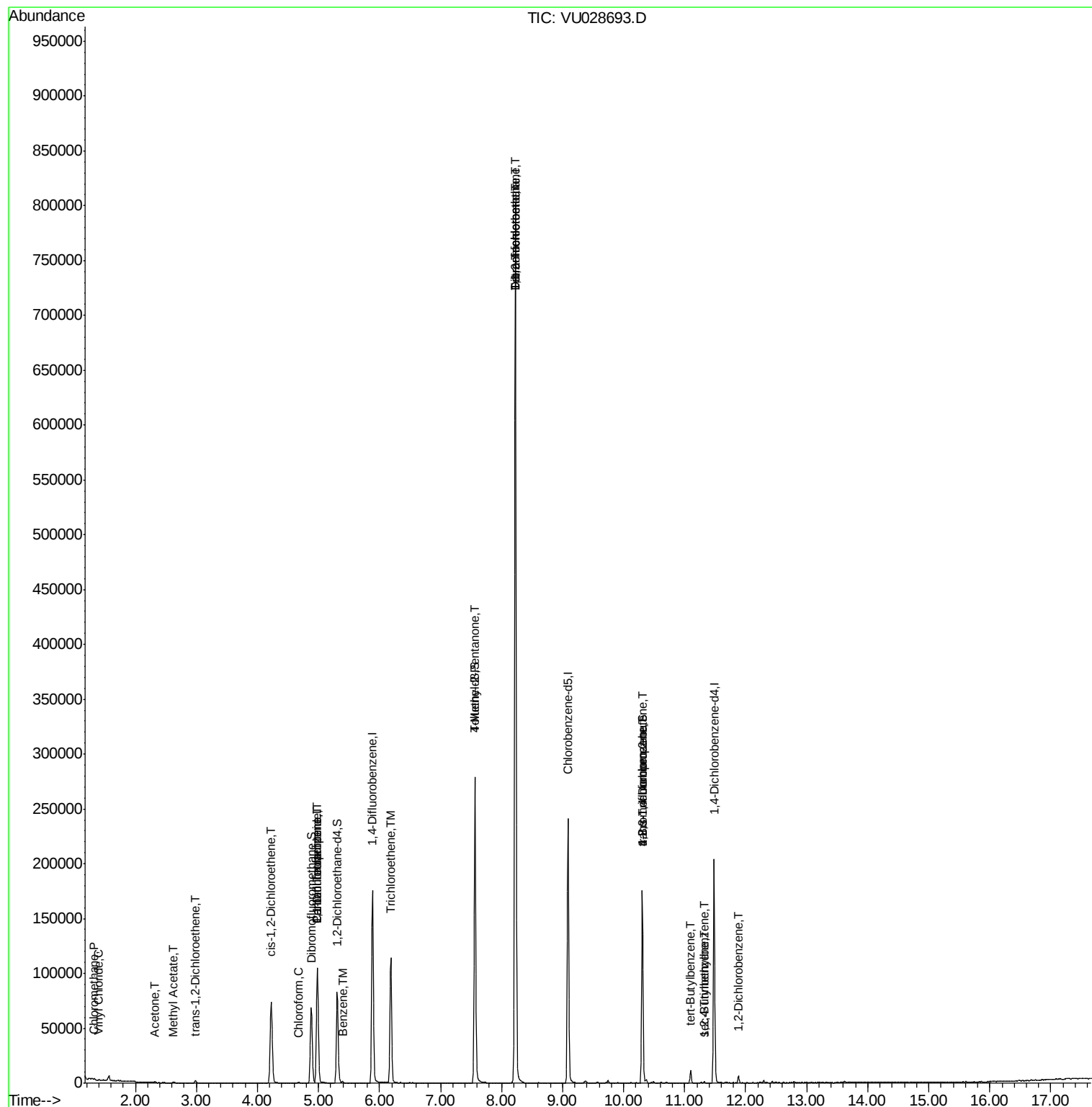
Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	4.98	168	78063	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	5.89	114	139578	50.00	ug/l	0.00
63) Chlorobenzene-d5	9.09	117	128080	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	11.48	152	49218	50.00	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	5.31	65	65257	54.78	ug/l	0.00
Spiked Amount 50.000			Recovery	=	109.56%	
35) Dibromofluoromethane	4.88	113	48931	55.71	ug/l	0.00
Spiked Amount 50.000			Recovery	=	111.42%	
50) Toluene-d8	7.57	98	182602	52.55	ug/l	0.00
Spiked Amount 50.000			Recovery	=	105.10%	
62) 4-Bromofluorobenzene	10.31	95	58344	44.92	ug/l	0.00
Spiked Amount 50.000			Recovery	=	89.84%	
Target Compounds						
					Qvalue	
3) Chloromethane	1.33	50	856	0.445	ug/l	99
4) Vinyl Chloride	1.40	62	437	0.315	ug/l #	58
16) Acetone	2.32	43	950	1.222	ug/l	98
18) Methyl Acetate	2.62	43	1214	0.602	ug/l #	80
21) trans-1,2-Dichloroethene	2.98	96	808	0.826	ug/l	95
27) cis-1,2-Dichloroethene	4.22	96	40204	36.298	ug/l	90
30) Chloroform	4.67	83	407	0.223	ug/l	92
31) Cyclohexane	4.98	56	1885	Below Cal	#	1
36) 1,1-Dichloropropene	4.98	75	6999	4.582	ug/l #	50
38) Carbon Tetrachloride	4.98	117	7783	6.322	ug/l #	16
40) Benzene	5.40	78	1441	0.320	ug/l	100
44) Trichloroethene	6.18	130	37256	37.247	ug/l	98
51) 4-Methyl-2-Pentanone	7.57	43	1021	0.518	ug/l #	1
55) 1,1,2-Trichloroethane	8.22	97	1577	1.507	ug/l #	1
60) Dibromochloromethane	8.23	129	165689	161.710	ug/l #	10
64) Tetrachloroethene	8.23	164	170444	199.507	ug/l	98
76) 1,2,3-Trichloropropane	10.31	75	31366	24.957	ug/l #	36
81) trans-1,4-Dichloro-2-buten	10.31	75	31366	61.243	ug/l #	100
83) tert-Butylbenzene	11.10	119	4785	1.588	ug/l	83
84) 1,2,4-Trimethylbenzene	11.32	105	1211	0.376	ug/l #	32
85) sec-Butylbenzene	11.32	105	1211	0.313	ug/l #	66
91) 1,2-Dichlorobenzene	11.88	146	2808	1.683	ug/l	96

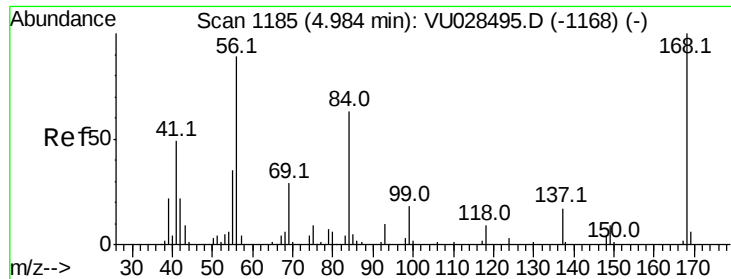
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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QLast Update : Fri Dec 07 00:39:42 2018
Response via : Initial Calibration





#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 4.98 min Scan# 1185

Delta R.T. -0.00 min

Lab File: VU028693.D

Acq: 14 Dec 2018 19:16

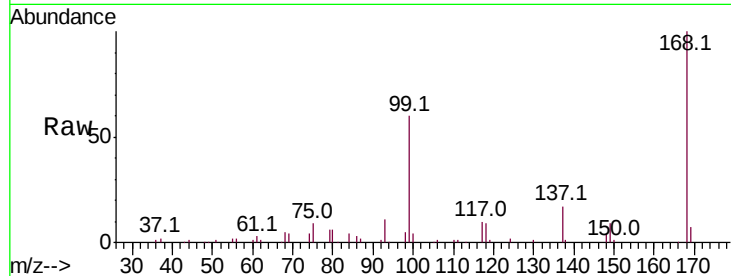
Instrument :
MSVOA_U
ClientSampleId :

Tot Ion:168 Resp: 78063

Ion Ratio Lower Upper

168 100

99 60.0 46.6 69.8



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

Ion 98.90 (98.60 to 99.60): VU028495.D (-1168) (-)

4.98

30000

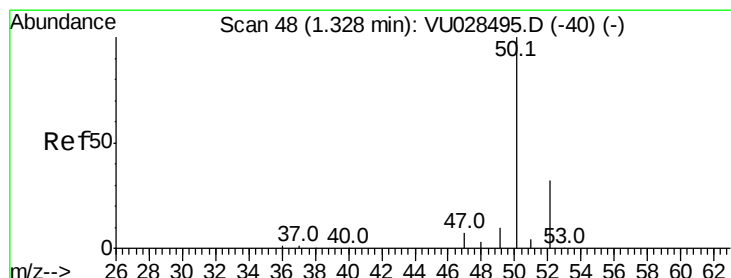
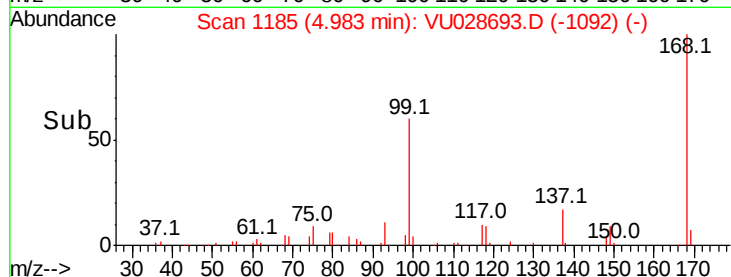
20000

10000

0

4.90 5.00 5.10

Time-->



#3

Chloromethane

Concen: 0.445 ug/l

RT: 1.33 min Scan# 48

Delta R.T. -0.00 min

Lab File: VU028693.D

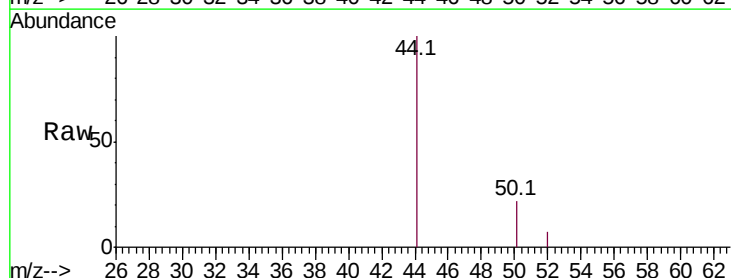
Acq: 14 Dec 2018 19:16

Tgt Ion: 50 Resp: 856

Ion Ratio Lower Upper

50 100

52 32.6 25.5 38.3



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

Ion 51.90 (51.60 to 52.60): VU028495.D (-40) (-)

1.33

800

600

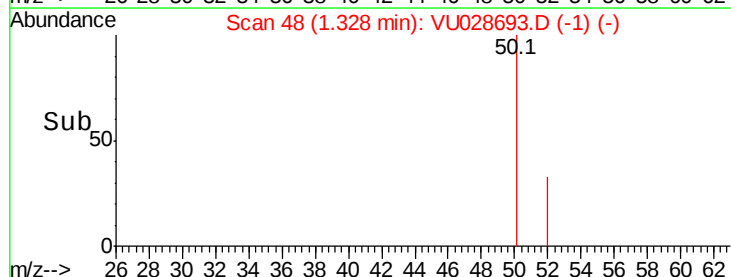
400

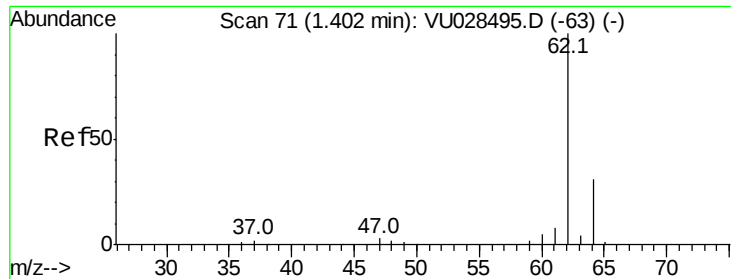
200

0

1.30 1.32 1.34 1.36 1.38

Time-->





#4

Vinyl Chloride

Concen: 0.315 ug/l

RT: 1.40 min Scan# 72

Delta R.T. 0.00 min

Lab File: VU028693.D

Acq: 14 Dec 2018 19:16

Instrument :

MSVOA_U

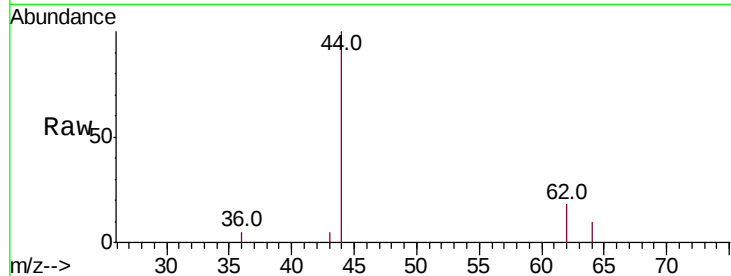
ClientSampleId :

Tot Ion: 62 Resp: 437

Ion Ratio Lower Upper

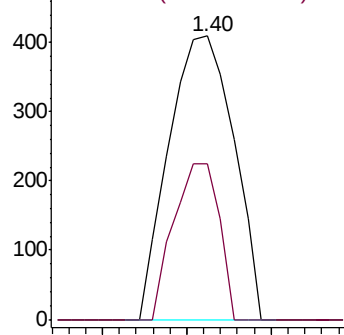
62 100

64 54.8 25.1 37.7#

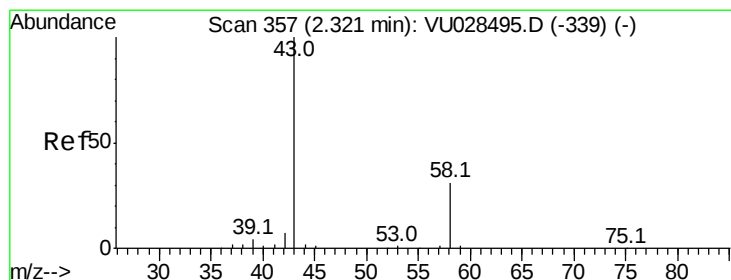
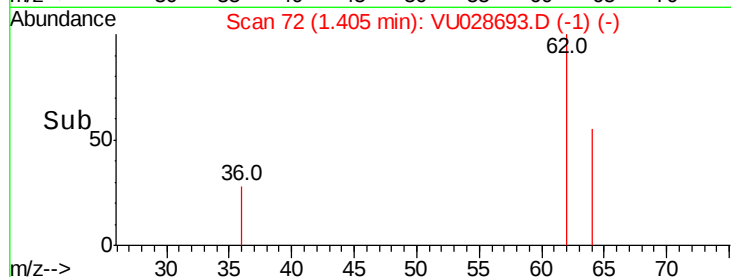


Abundance Ion 61.90 (61.60 to 62.60): VU0

Ion 63.90 (63.60 to 64.60): VU0



Time-->



#16

Acetone

Concen: 1.222 ug/l

RT: 2.32 min Scan# 358

Delta R.T. 0.00 min

Lab File: VU028693.D

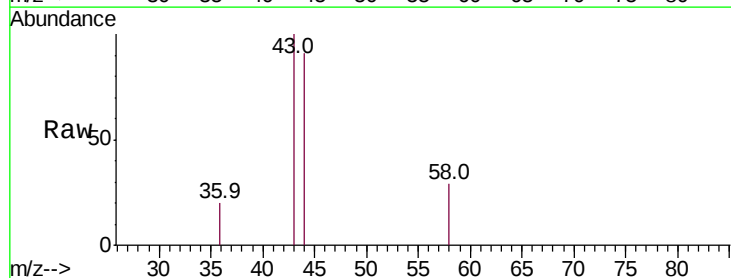
Acq: 14 Dec 2018 19:16

Tgt Ion: 43 Resp: 950

Ion Ratio Lower Upper

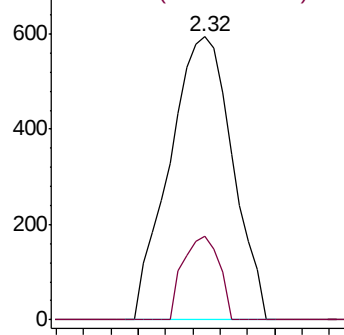
43 100

58 29.5 24.6 37.0

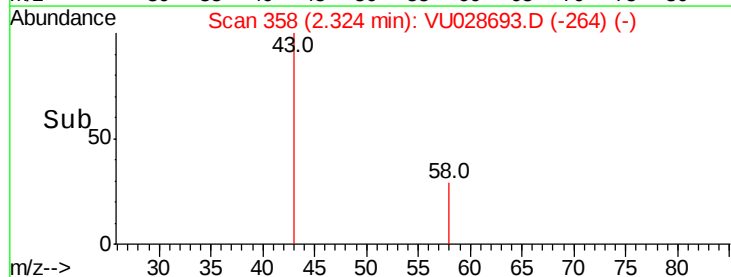


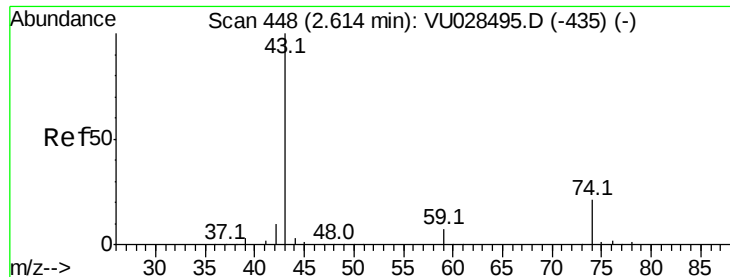
Abundance Ion 43.00 (42.70 to 43.70): VU0

Ion 58.00 (57.70 to 58.70): VU0



Time-->

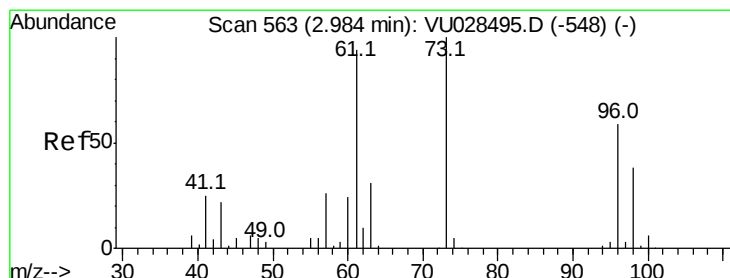
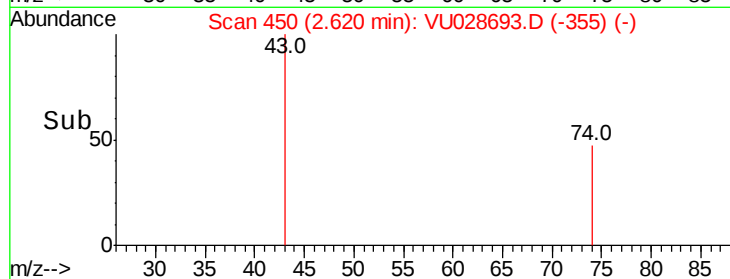
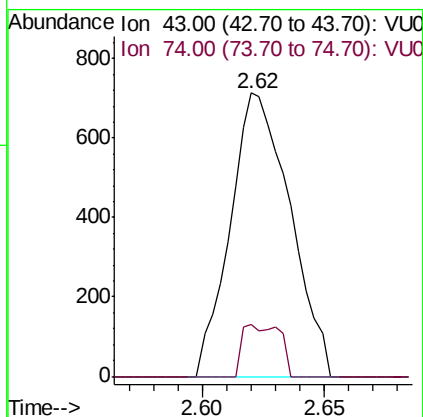
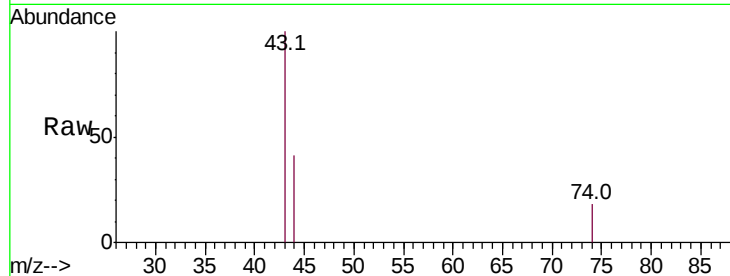




#18
Methvl Acetate
Concen: 0.602 ug/l
RT: 2.62 min Scan# 450
Delta R.T. 0.01 min
Lab File: VU028693.D
Acq: 14 Dec 2018 19:16

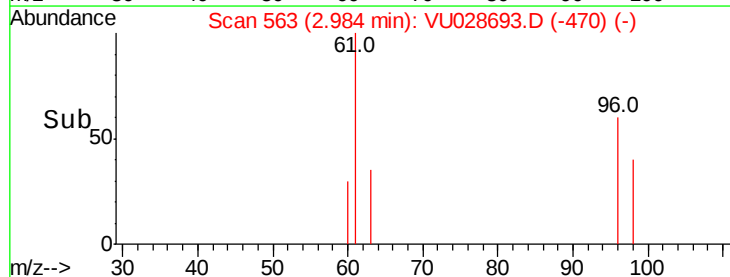
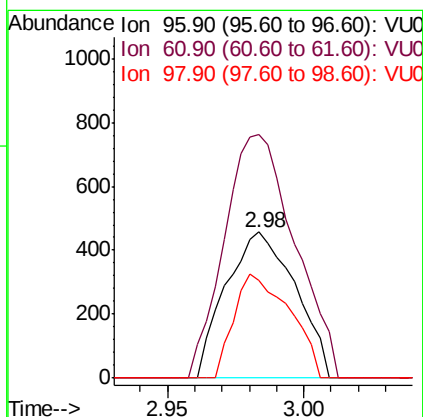
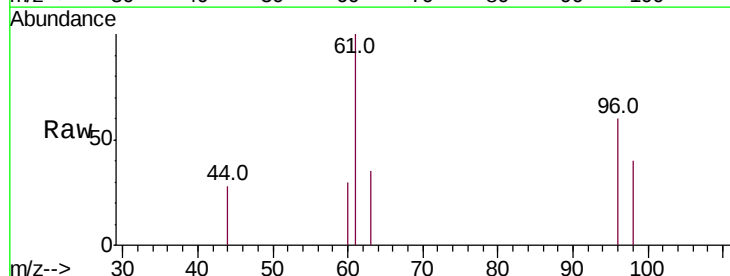
Instrument :
MSVOA_U
ClientSampleId :

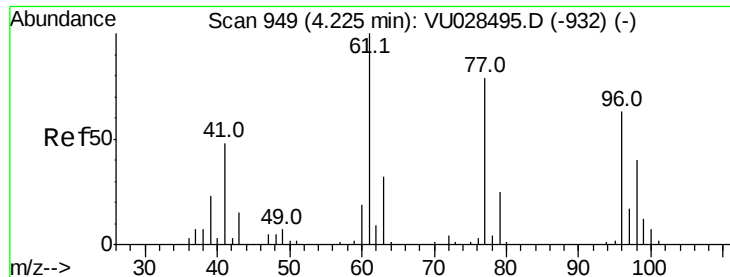
Tot Ion: 43 Resp: 1214
Ion Ratio Lower Upper
43 100
74 11.4 16.4 24.6#



#21
trans-1,2-Dichloroethene
Concen: 0.826 ug/l
RT: 2.98 min Scan# 563
Delta R.T. -0.00 min
Lab File: VU028693.D
Acq: 14 Dec 2018 19:16

Tgt Ion: 96 Resp: 808
Ion Ratio Lower Upper
96 100
61 166.7 127.0 190.4
98 66.7 51.9 77.9



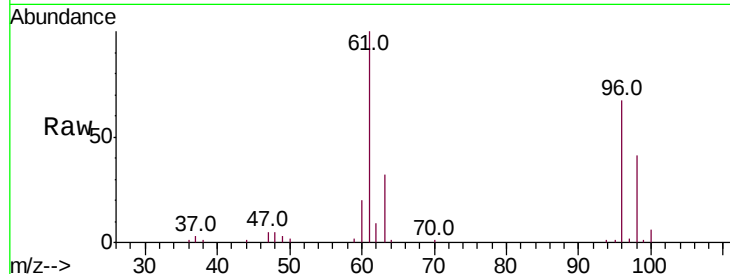


#27

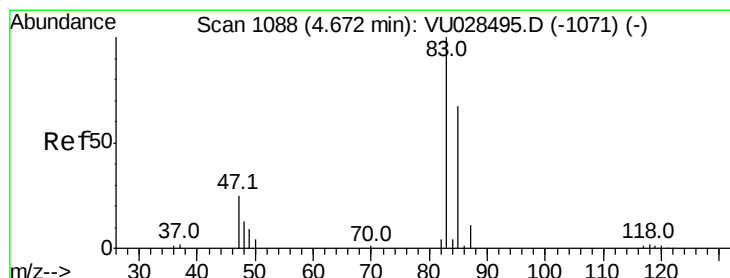
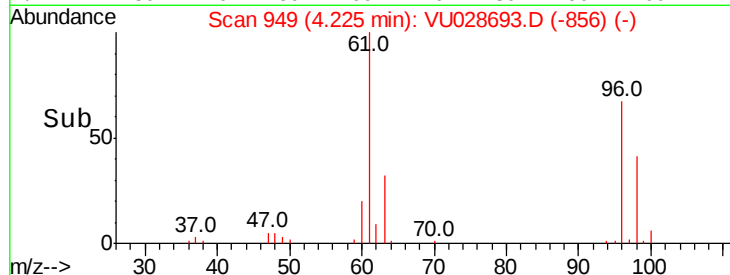
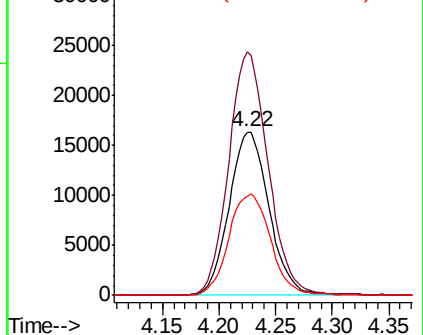
cis-1,2-Dichloroethene
Concen: 36.298 ug/l
RT: 4.22 min Scan# 949
Delta R.T. -0.00 min
Lab File: VU028693.D
Acq: 14 Dec 2018 19:16

Instrument :
MSVOA_U
ClientSampleId :

Tot Ion: 96 Resp: 40204
Ion Ratio Lower Upper
96 100
61 147.5 0.0 332.4
98 64.6 0.0 129.0



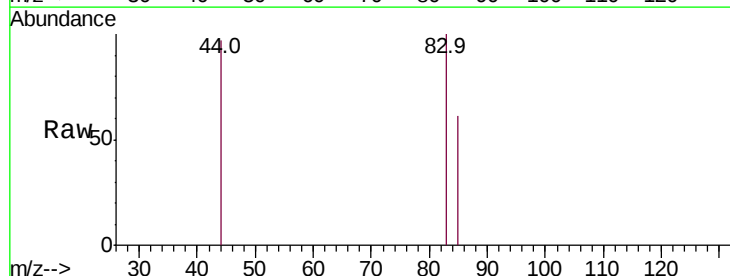
Abundance Ion 95.90 (95.60 to 96.60): VU0
Ion 60.90 (60.60 to 61.60): VU0
Ion 97.90 (97.60 to 98.60): VU0



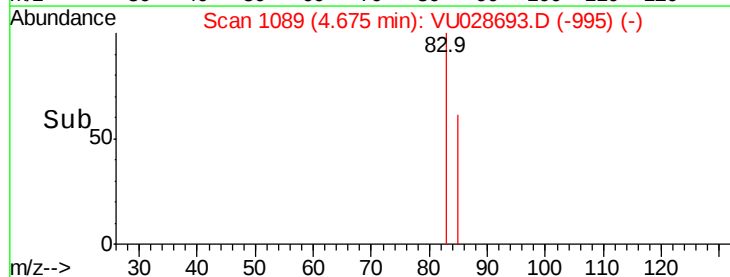
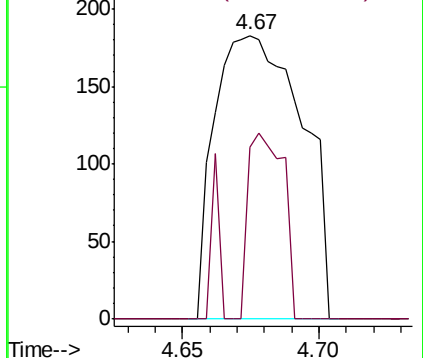
#30

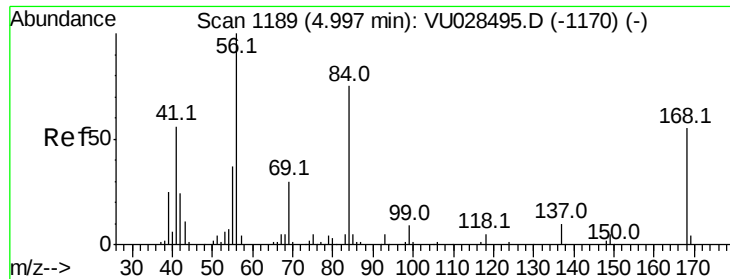
Chloroform
Concen: 0.223 ug/l
RT: 4.67 min Scan# 1089
Delta R.T. 0.00 min
Lab File: VU028693.D
Acq: 14 Dec 2018 19:16

Tgt Ion: 83 Resp: 407
Ion Ratio Lower Upper
83 100
85 60.7 53.6 80.4



Abundance Ion 82.90 (82.60 to 83.60): VU0
Ion 84.90 (84.60 to 85.60): VU0

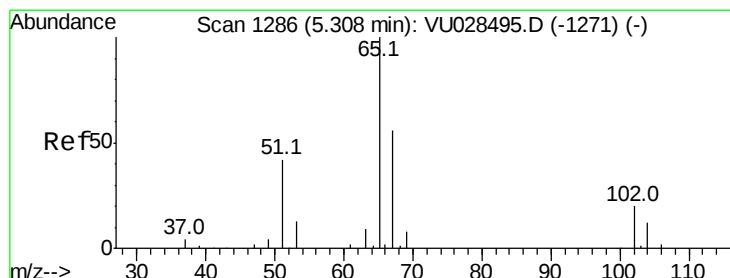
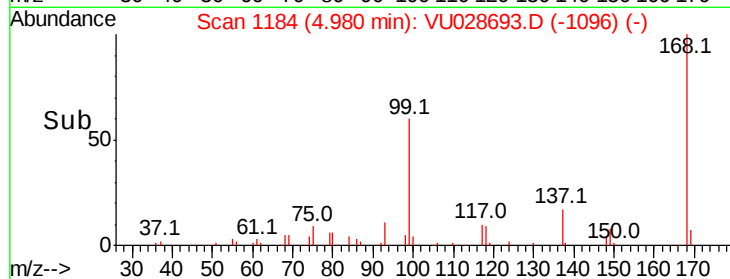
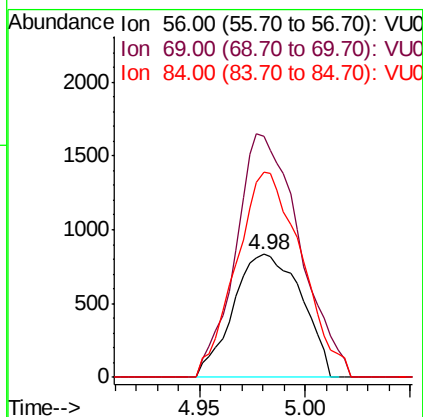
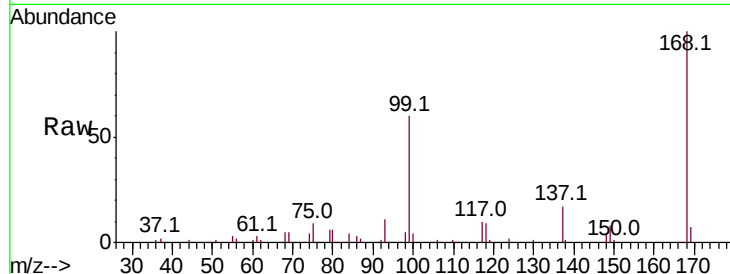




#31
Cyclohexane
Concen: Below Cal
RT: 4.98 min Scan# 1184
Delta R.T. -0.02 min
Lab File: VU028693.D
Acq: 14 Dec 2018 19:16

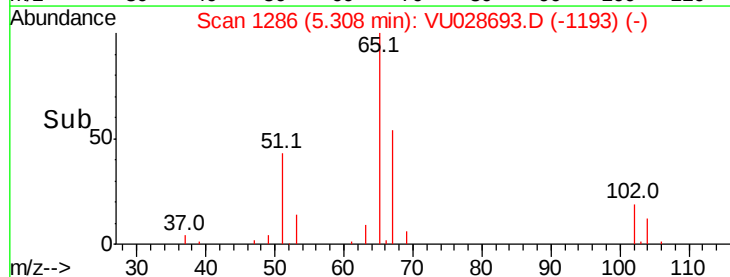
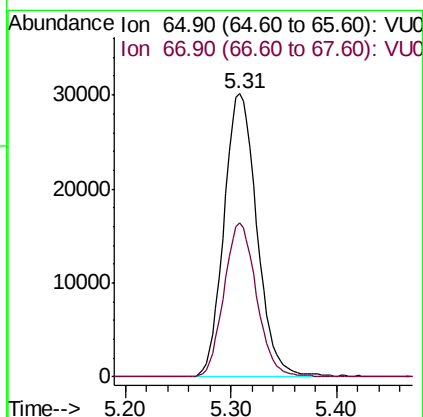
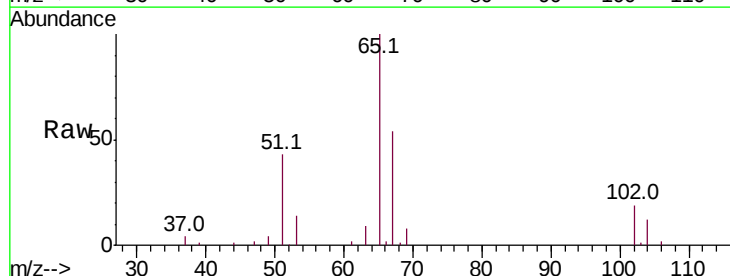
Instrument :
MSVOA_U
ClientSampleId :

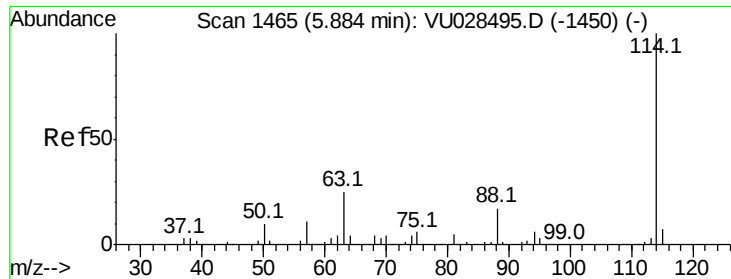
Tot Ion	Ratio	Lower	Upper
56	100		
69	196.5	24.0	36.0#
84	167.5	59.7	89.5#



#33
1,2-Dichloroethane-d4
Concen: 54.778 ug/l
RT: 5.31 min Scan# 1286
Delta R.T. -0.00 min
Lab File: VU028693.D
Acq: 14 Dec 2018 19:16

Tgt Ion	Ratio	Lower	Upper
65	100		
67	53.5	0.0	110.6





#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 5.89 min Scan# 1466

Delta R.T. 0.00 min

Lab File: VU028693.D

Acq: 14 Dec 2018 19:16

Instrument :

MSVOA_U

ClientSampleId :

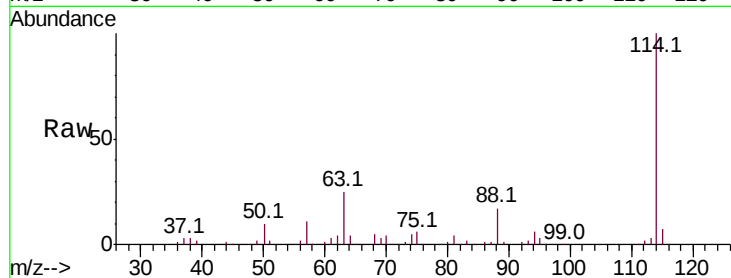
Tot Ion:114 Resp: 139578

Ion Ratio Lower Upper

114 100

63 24.6 0.0 49.2

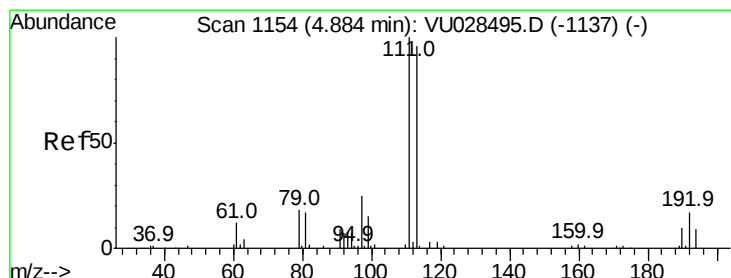
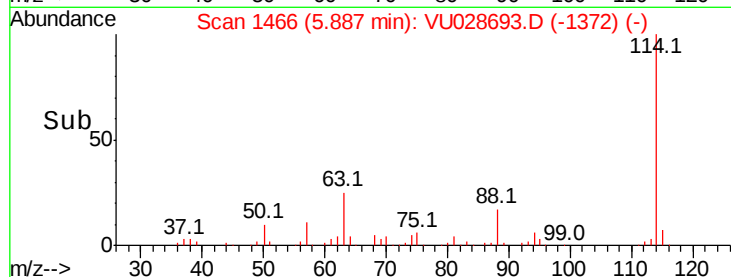
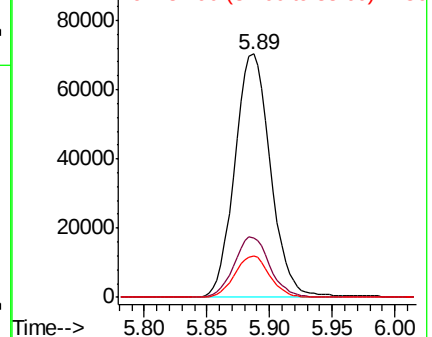
88 17.2 0.0 33.4



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: 55.706 ug/l

RT: 4.88 min Scan# 1153

Delta R.T. -0.00 min

Lab File: VU028693.D

Acq: 14 Dec 2018 19:16

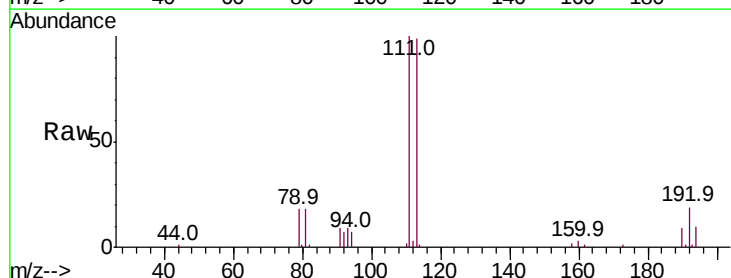
Tgt Ion:113 Resp: 48931

Ion Ratio Lower Upper

113 100

111 101.3 83.4 125.0

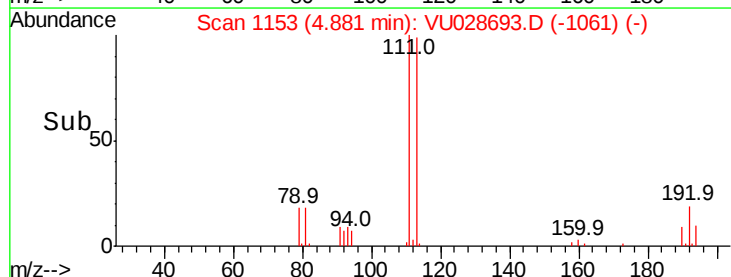
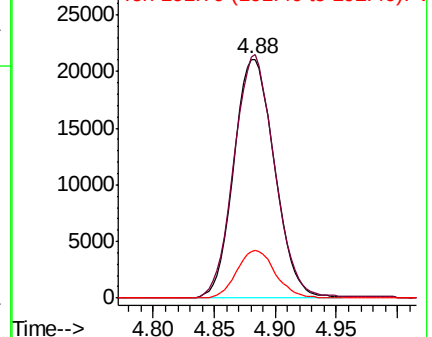
192 18.7 14.8 22.2

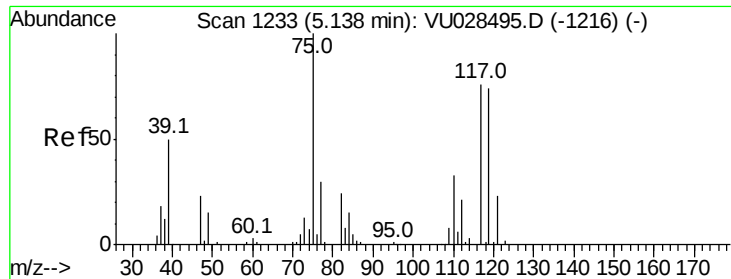


Abundance Ion 112.80 (112.50 to 113.50): V

Ion 110.80 (110.50 to 111.50): V

Ion 191.70 (191.40 to 192.40): V

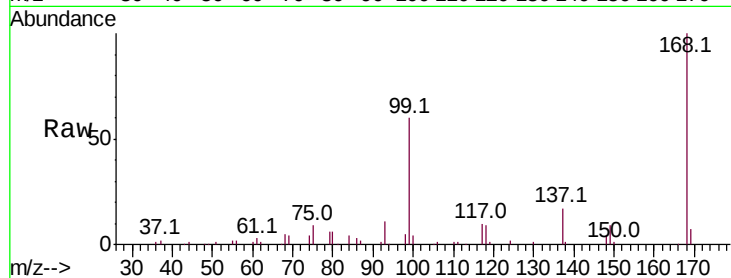




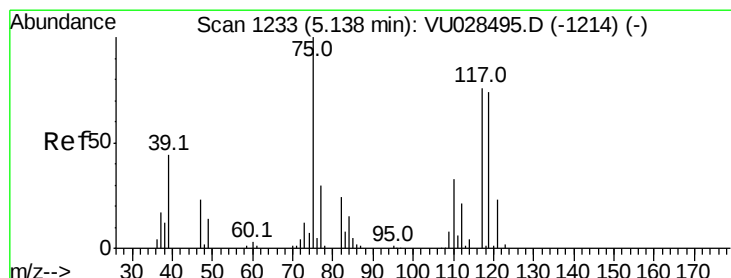
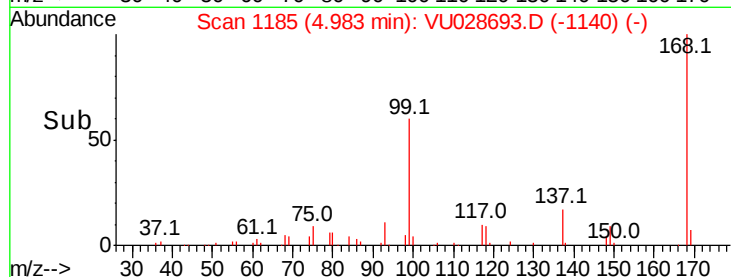
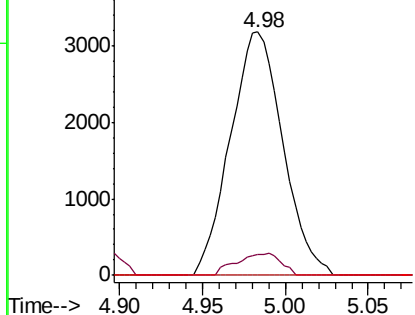
#36
 1,1-Dichloropropene
 Concen: 4.582 ug/l
 RT: 4.98 min Scan# 1185
 Delta R.T. -0.15 min
 Lab File: VU028693.D
 Acq: 14 Dec 2018 19:16

Instrument :
 MSVOA_U
 ClientSampleId :

Tot Ion	Ratio	Lower	Upper
75	100		
110	7.5	16.1	48.2#
77	0.0	24.5	36.7#

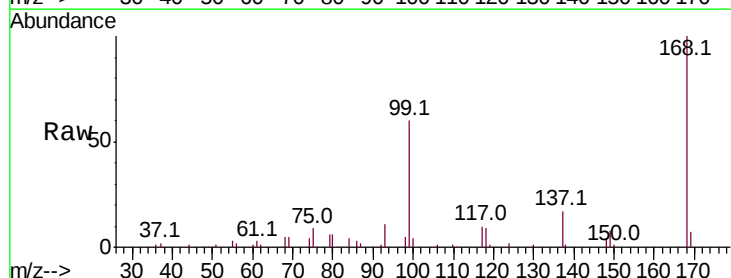


Abundance Ion 74.90 (74.60 to 75.60): VU028495.D (-1216) (-)
 Ion 109.90 (109.60 to 110.60): VU028495.D (-1216) (-)
 Ion 76.90 (76.60 to 77.60): VU028495.D (-1216) (-)

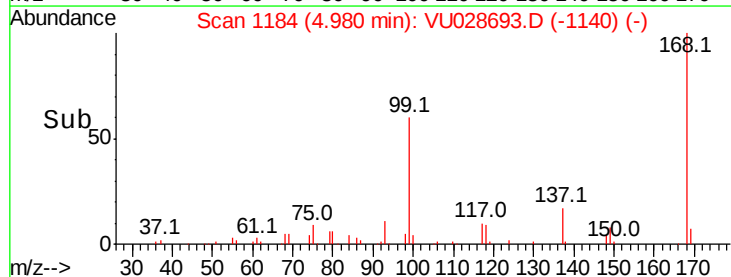
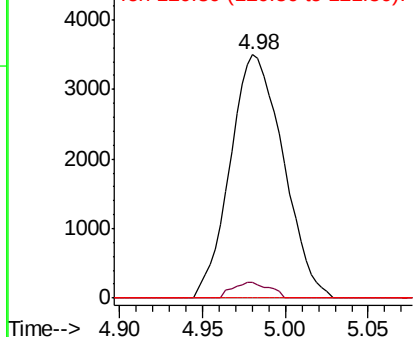


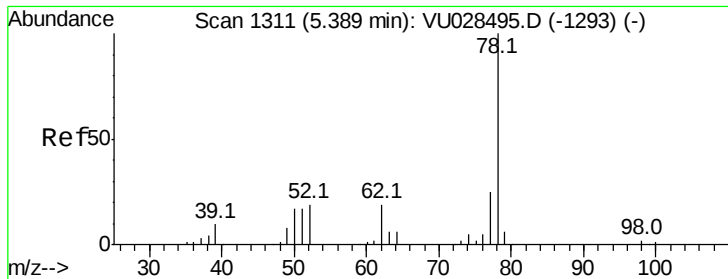
#38
 Carbon Tetrachloride
 Concen: 6.322 ug/l
 RT: 4.98 min Scan# 1184
 Delta R.T. -0.16 min
 Lab File: VU028693.D
 Acq: 14 Dec 2018 19:16

Tgt Ion	Ratio	Lower	Upper
117	100		
119	6.3	77.6	116.4#
121	0.0	24.6	36.8#



Abundance Ion 116.80 (116.50 to 117.50): VU028495.D (-1216) (-)
 Ion 118.80 (118.50 to 119.50): VU028495.D (-1216) (-)
 Ion 120.80 (120.50 to 121.50): VU028495.D (-1216) (-)





#40

Benzene

Concen: 0.320 ug/l

RT: 5.40 min Scan# 1313

Delta R.T. 0.01 min

Lab File: VU028693.D

Acq: 14 Dec 2018 19:16

Instrument :

MSVOA_U

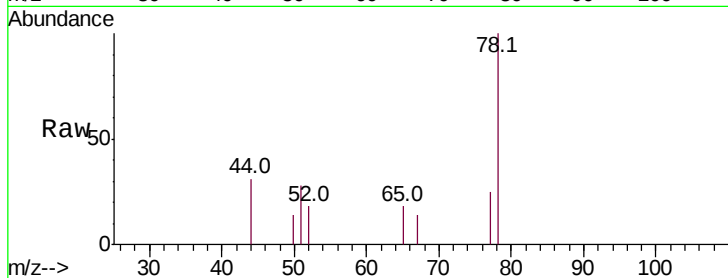
ClientSampleId :

Tot Ion: 78 Resp: 1441

Ion Ratio Lower Upper

78 100

77 25.1 19.9 29.9



Abundance Ion 78.00 (77.70 to 78.70): VU028495.D (-1293) (-)

Ion 77.00 (76.70 to 77.70): VU028495.D (-1293) (-)

5.40

800

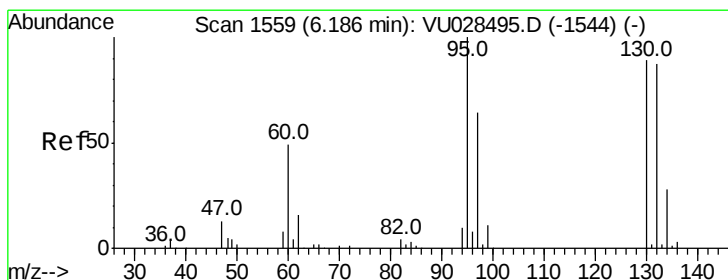
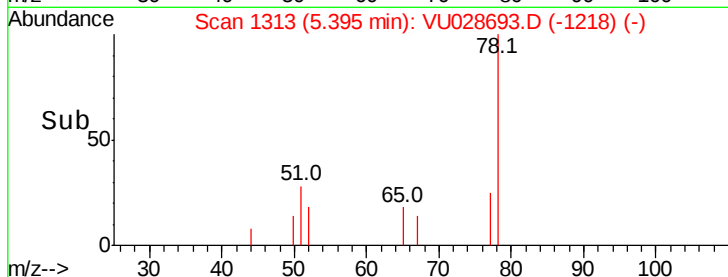
600

400

200

0

Time-->



#44

Trichloroethene

Concen: 37.247 ug/l

RT: 6.18 min Scan# 1558

Delta R.T. -0.00 min

Lab File: VU028693.D

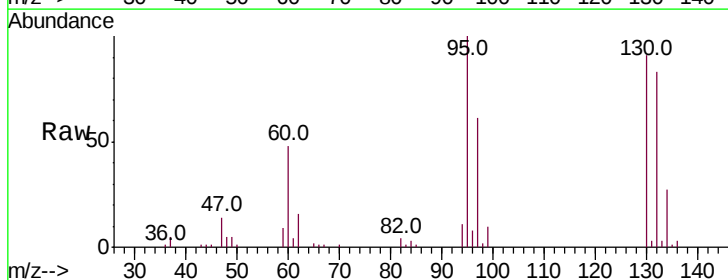
Acq: 14 Dec 2018 19:16

Tgt Ion:130 Resp: 37256

Ion Ratio Lower Upper

130 100

95 110.0 0.0 224.0



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

Ion 94.90 (94.60 to 95.60): VU028495.D (-1544) (-)

25000

20000

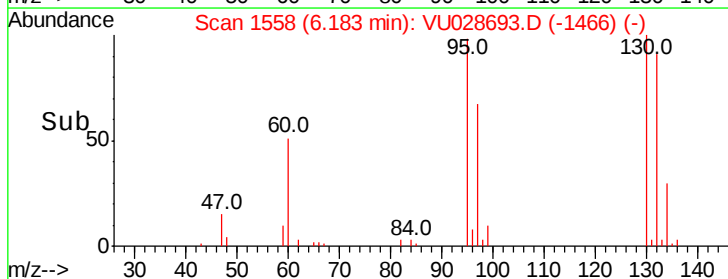
15000

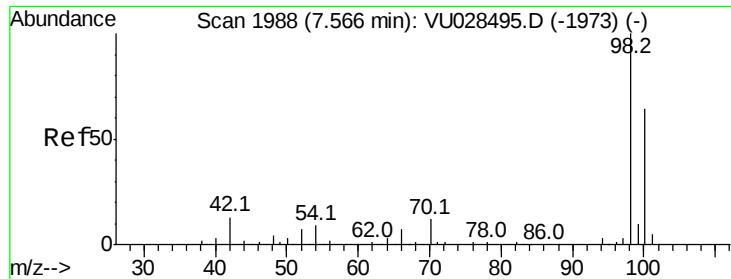
10000

5000

0

Time-->





#50

Toluene-d8

Concen: 52.552 ug/l

RT: 7.57 min Scan# 1988

Delta R.T. -0.00 min

Lab File: VU028693.D

Acq: 14 Dec 2018 19:16

Instrument :

MSVOA_U

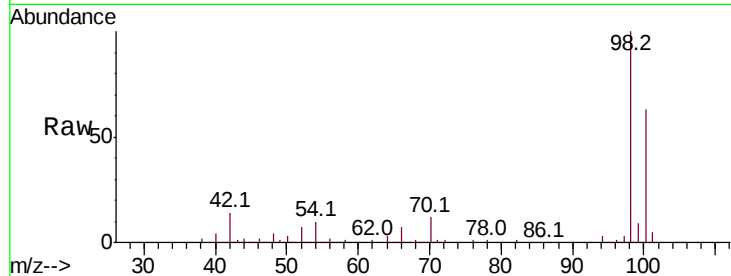
ClientSampled :

Tot Ion: 98 Resp: 182602

Ion Ratio Lower Upper

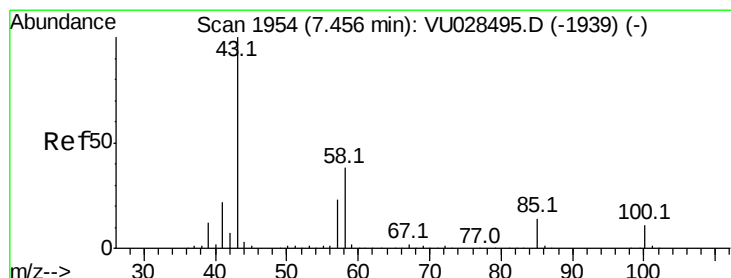
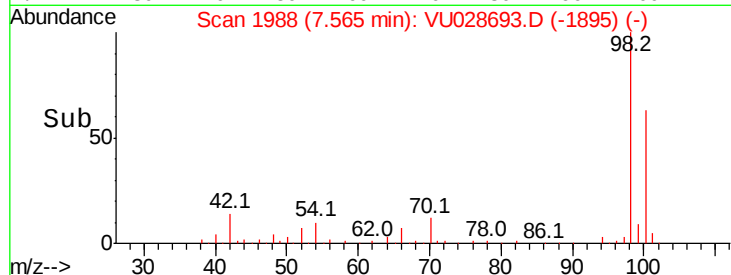
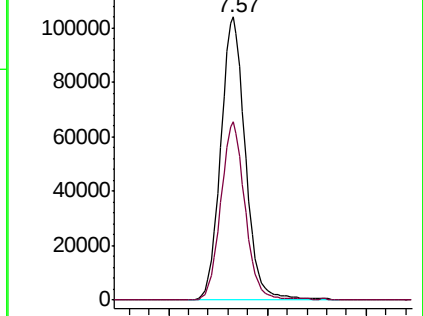
98 100

100 61.9 51.0 76.6



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

Ion 100.00 (99.70 to 100.70): VU028495.D (-1973) (-)



#51

4-Methyl-2-Pentanone

Concen: 0.518 ug/l

RT: 7.57 min Scan# 1988

Delta R.T. 0.11 min

Lab File: VU028693.D

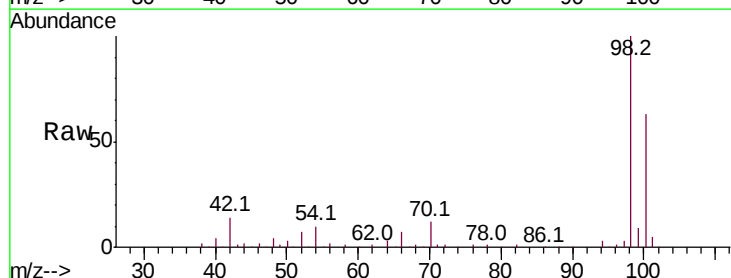
Acq: 14 Dec 2018 19:16

Tgt Ion: 43 Resp: 1021

Ion Ratio Lower Upper

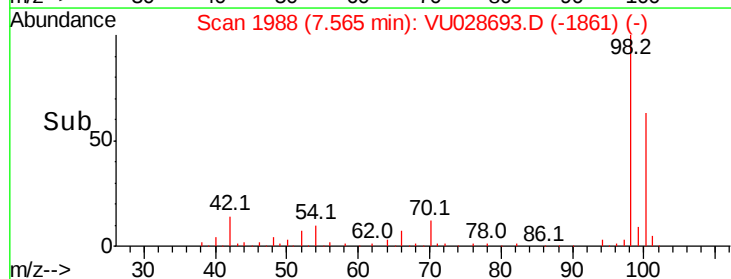
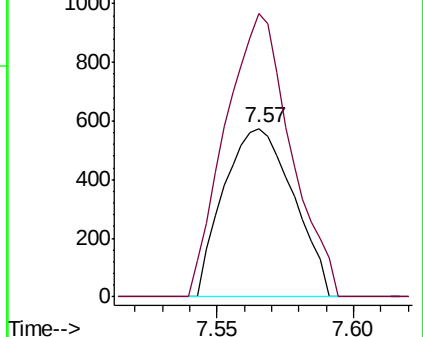
43 100

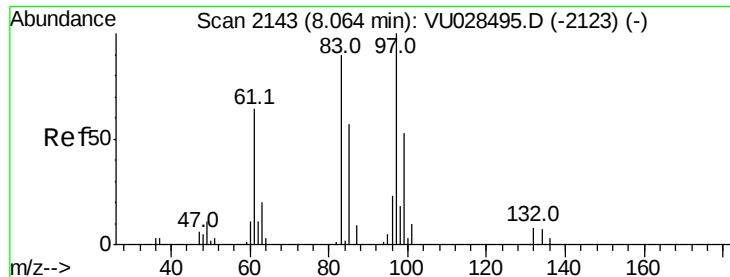
58 157.9 30.2 45.2#



Abundance Ion 43.00 (42.70 to 43.70): VU028495.D (-1939) (-)

Ion 58.00 (57.70 to 58.70): VU028495.D (-1939) (-)





#55

1,1,2-Trichloroethane

Concen: 1.507 ug/l

RT: 8.22 min Scan# 2193

Delta R.T. 0.16 min

Lab File: VU028693.D

Acq: 14 Dec 2018 19:16

Instrument :

MSVOA_U

ClientSampleId :

Tot Ion: 97 Resp: 1577

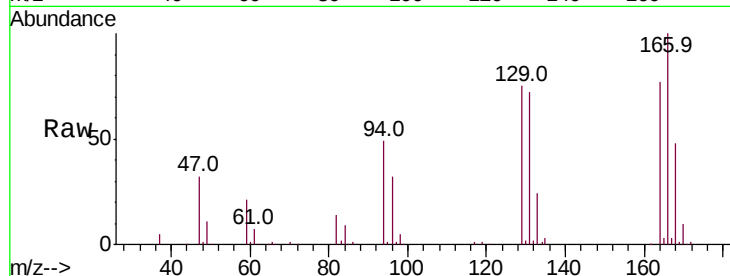
Ion Ratio Lower Upper

97 100

83 284.6 72.4 108.6#

85 43.5 46.0 69.0#

99 12.5 47.4 71.2#

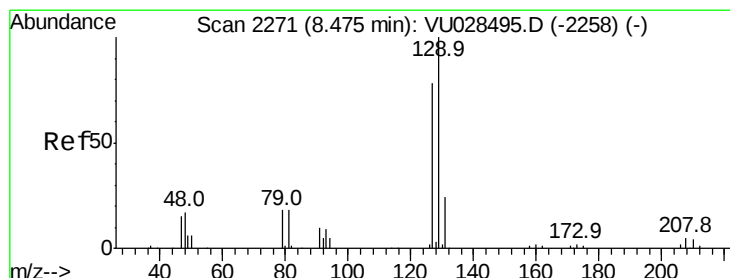
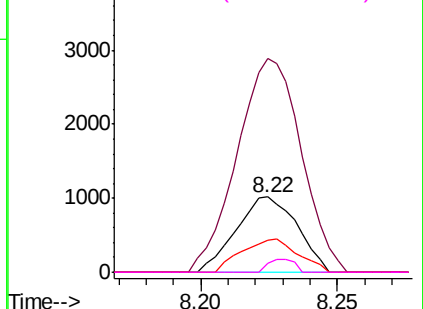
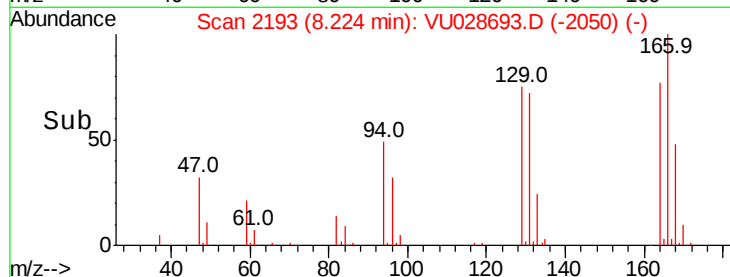


Abundance Ion 96.90 (96.60 to 97.60): VU028495.D (-2123) (-)

Ion 82.90 (82.60 to 83.60): VU028495.D (-2123) (-)

Ion 84.90 (84.60 to 85.60): VU028495.D (-2123) (-)

Ion 98.90 (98.60 to 99.60): VU028495.D (-2123) (-)



#60

Dibromochloromethane

Concen: 161.710 ug/l

RT: 8.23 min Scan# 2194

Delta R.T. -0.25 min

Lab File: VU028693.D

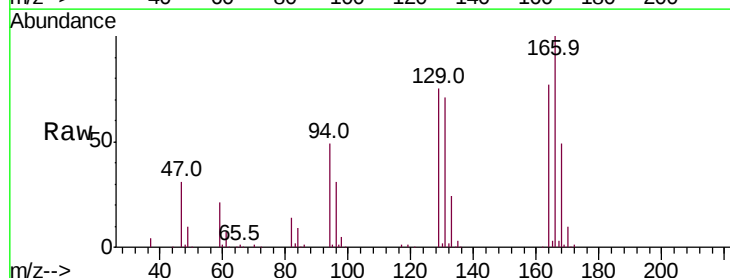
Acq: 14 Dec 2018 19:16

Tgt Ion: 129 Resp: 165689

Ion Ratio Lower Upper

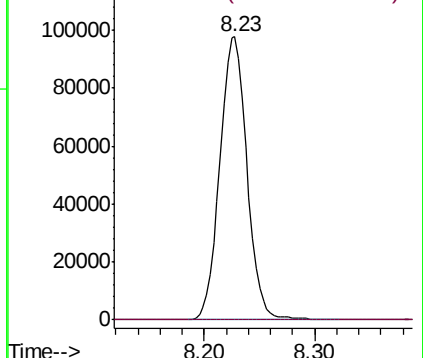
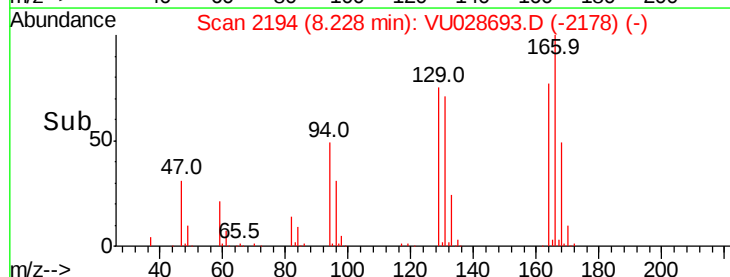
129 100

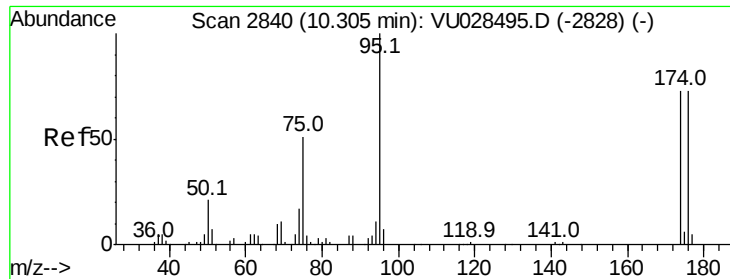
127 0.0 39.1 117.3#



Abundance Ion 128.80 (128.50 to 129.50): VU028495.D (-2258) (-)

Ion 126.80 (126.50 to 127.50): VU028495.D (-2258) (-)





#62

4-Bromofluorobenzene

Concen: 44.924 ug/l

RT: 10.31 min Scan# 2841

Delta R.T. 0.00 min

Lab File: VU028693.D

Acq: 14 Dec 2018 19:16

Instrument :

MSVOA_U

ClientSampleId :

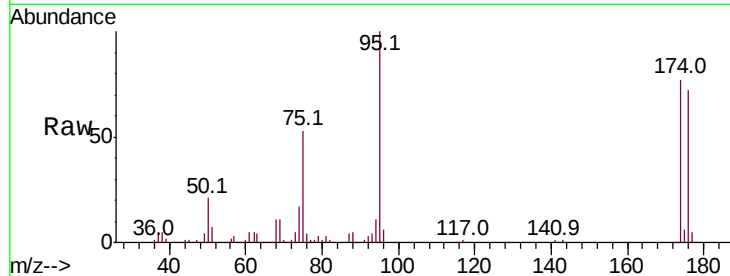
Tot Ion: 95 Resp: 58344

Ion Ratio Lower Upper

95 100

174 77.7 0.0 150.4

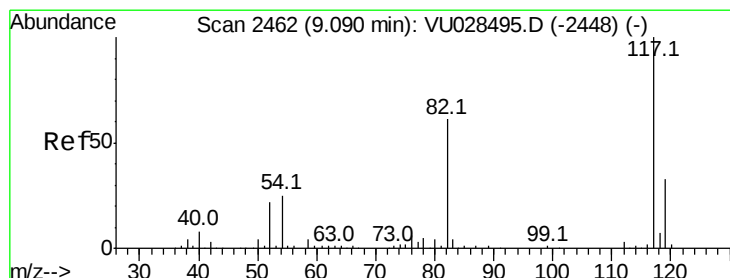
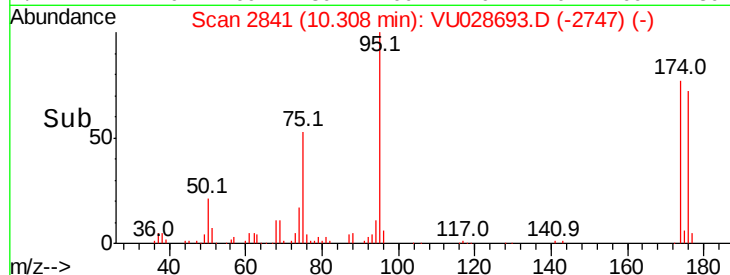
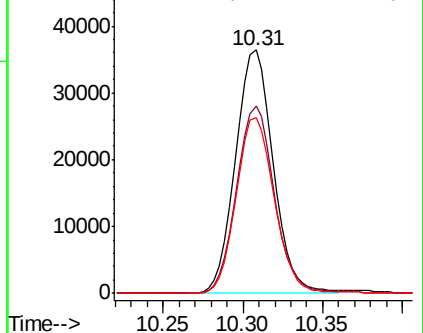
176 73.2 0.0 145.2



Abundance Ion 94.90 (94.60 to 95.60): VU028495.D (-2828) (-)

Ion 173.80 (173.50 to 174.50): VU028495.D (-2828) (-)

Ion 175.80 (175.50 to 176.50): VU028495.D (-2828) (-)



#63

Chlorobenzene-d5

Concen: 50.000 ug/l

RT: 9.09 min Scan# 2462

Delta R.T. -0.00 min

Lab File: VU028693.D

Acq: 14 Dec 2018 19:16

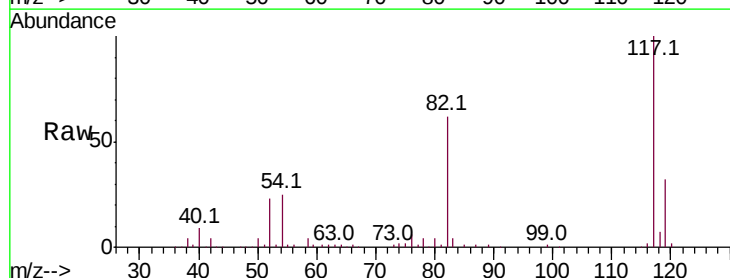
Tgt Ion: 117 Resp: 128080

Ion Ratio Lower Upper

117 100

82 62.1 48.9 73.3

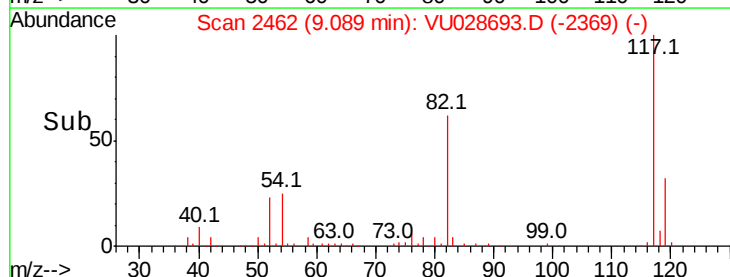
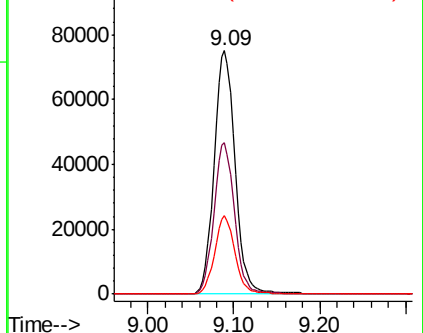
119 32.0 26.2 39.4

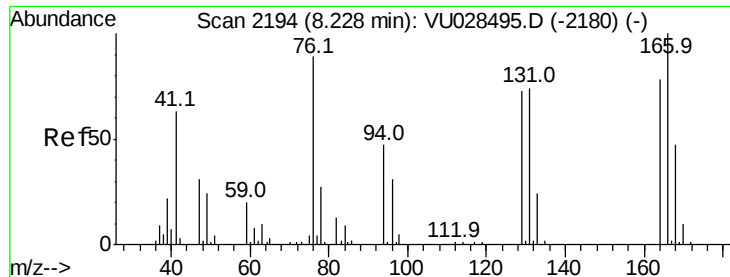


Abundance Ion 116.90 (116.60 to 117.60): VU028495.D (-2448) (-)

Ion 82.00 (81.70 to 82.70): VU028495.D (-2448) (-)

Ion 118.90 (118.60 to 119.60): VU028495.D (-2448) (-)





#64

Tetrachloroethene

Concen: 199.507 ug/l

RT: 8.23 min Scan# 2194

Delta R.T. -0.00 min

Lab File: VU028693.D

Acq: 14 Dec 2018 19:16

Instrument :

MSVOA_U

ClientSampleId :

Tot Ion:164 Resp: 170444

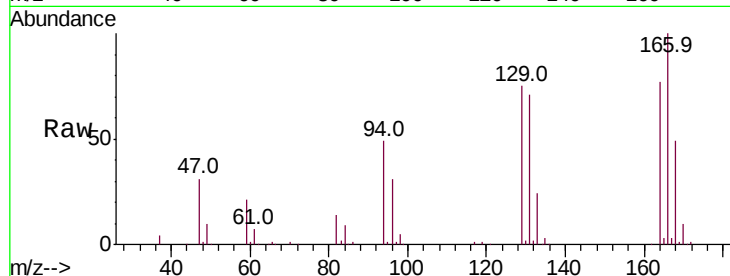
Ion Ratio Lower Upper

164 100

166 129.2 101.9 152.9

129 96.4 74.9 112.3

131 92.0 75.4 113.0

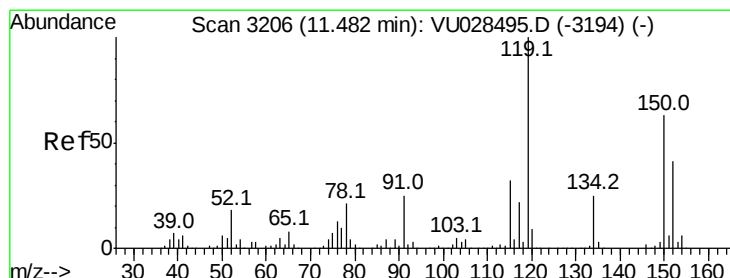
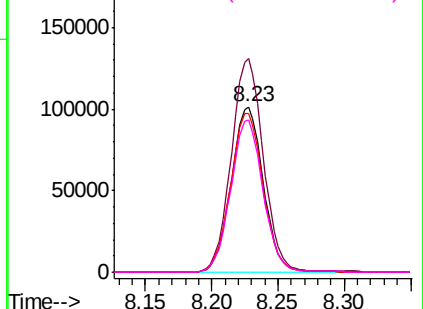
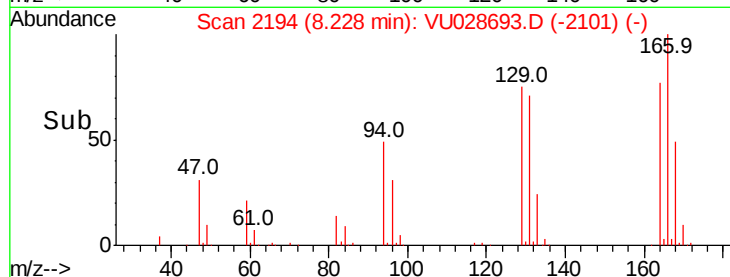


Abundance Ion 163.80 (163.50 to 164.50): V

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: VU028693.D

Acq: 14 Dec 2018 19:16

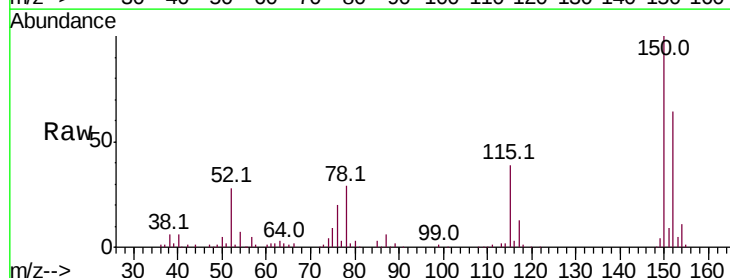
Tgt Ion:152 Resp: 49218

Ion Ratio Lower Upper

152 100

115 61.4 42.7 128.1

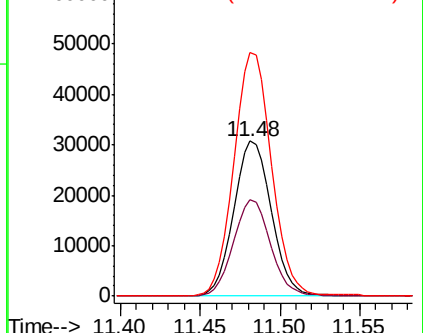
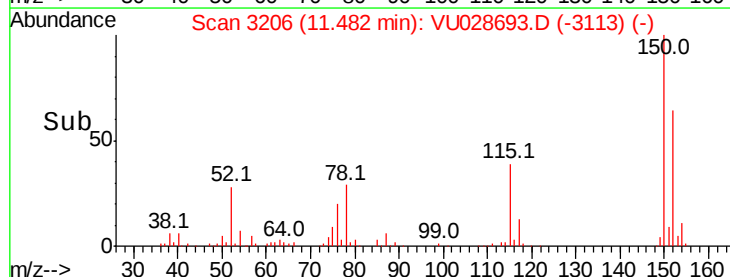
150 157.0 0.0 346.0

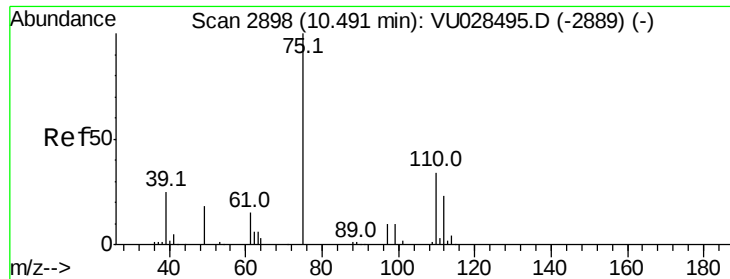


Abundance Ion 151.90 (151.60 to 152.60): V

Ion 114.90 (114.60 to 115.60): V

Ion 149.90 (149.60 to 150.60): V





#76

1,2,3-Trichloropropane

Concen: 24.957 ug/l

RT: 10.31 min Scan# 2841

Delta R.T. -0.18 min

Lab File: VU028693.D

Acq: 14 Dec 2018 19:16

Instrument :

MSVOA_U

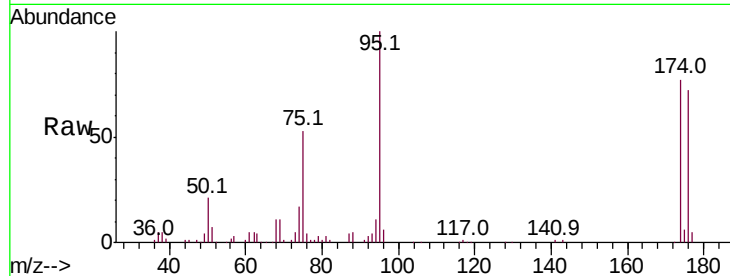
ClientSampleId :

Tot Ion: 75 Resp: 31366

Ion Ratio Lower Upper

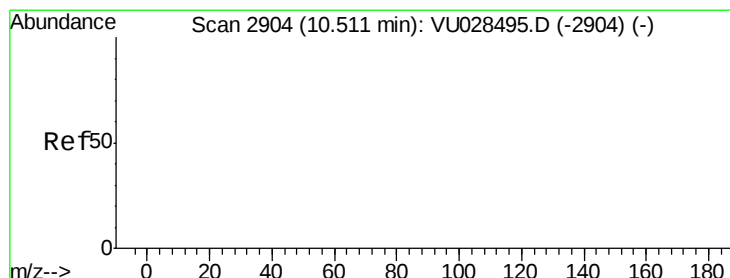
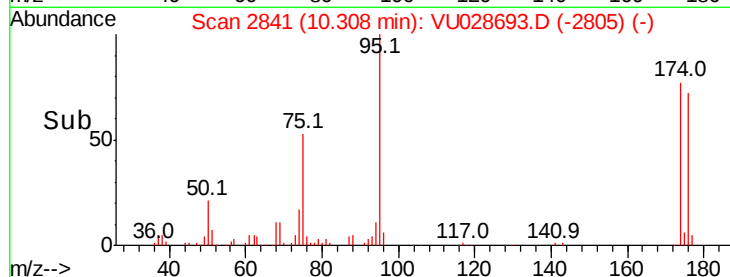
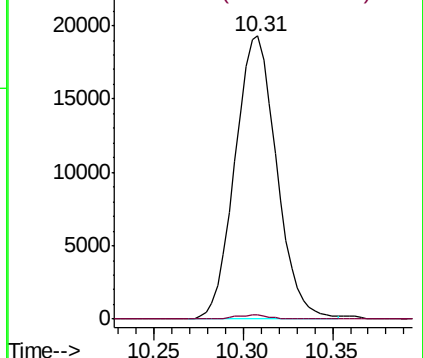
75 100

77 1.1 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: 61.243 ug/l

RT: 10.31 min Scan# 2841

Delta R.T. -0.20 min

Lab File: VU028693.D

Acq: 14 Dec 2018 19:16

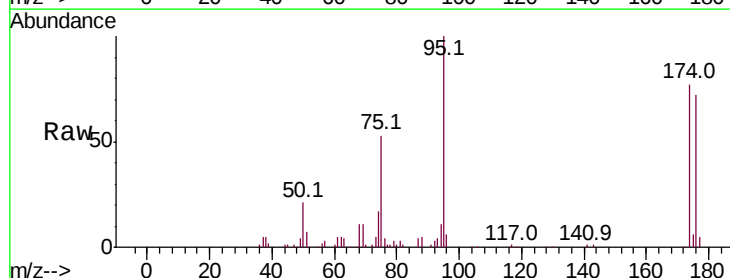
Tgt Ion: 75 Resp: 31366

Ion Ratio Lower Upper

75 100

53 0.0 0.0 0.0

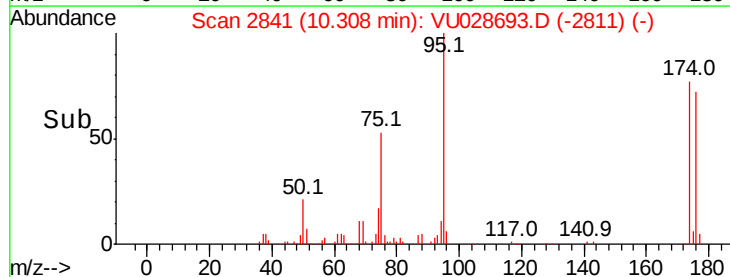
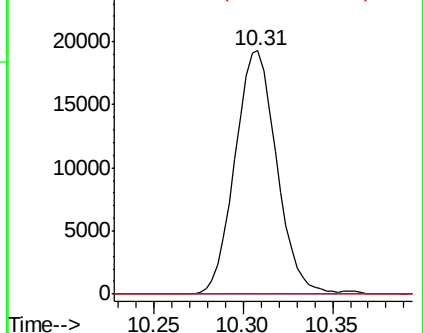
89 0.0 0.0 0.0

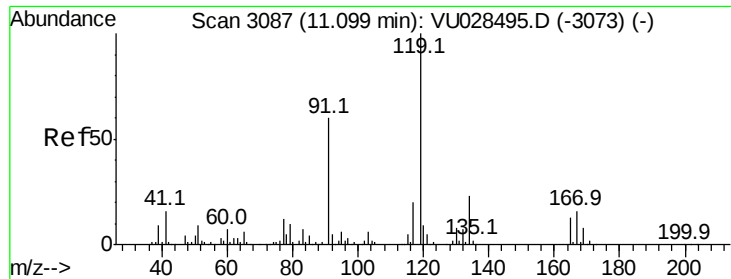


Abundance Ion 74.90 (74.60 to 75.60): VU0

Ion 53.00 (52.70 to 53.70): VU0

Ion 88.90 (88.60 to 89.60): VU0

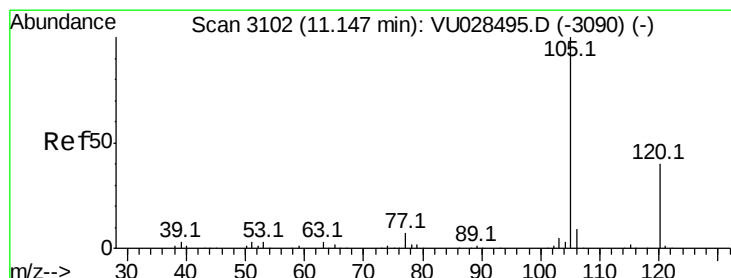
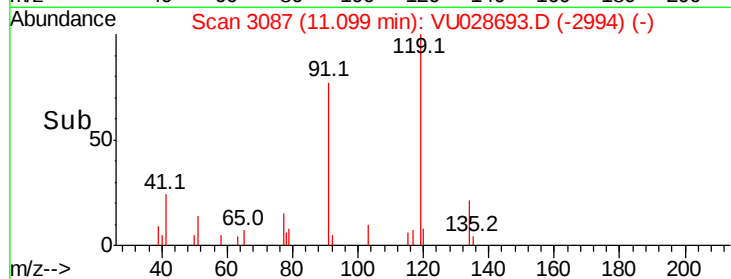
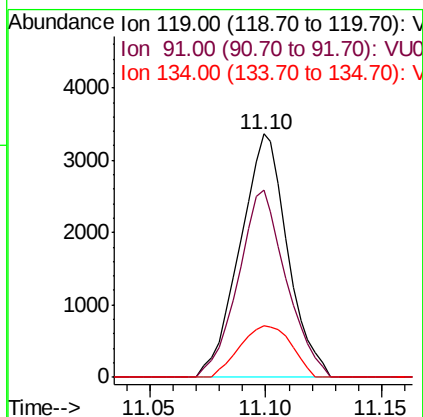
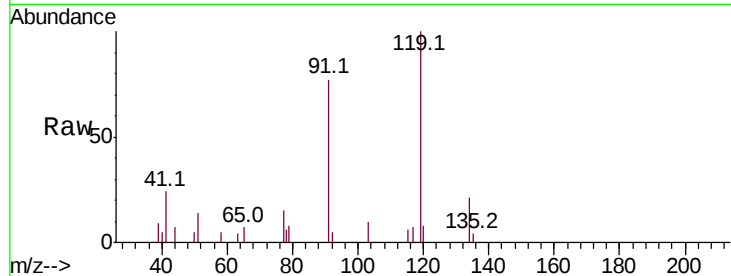




#83
 tert-Butylbenzene
 Concen: 1.588 ug/l
 RT: 11.10 min Scan# 3087
 Delta R.T. -0.00 min
 Lab File: VU028693.D
 Acq: 14 Dec 2018 19:16

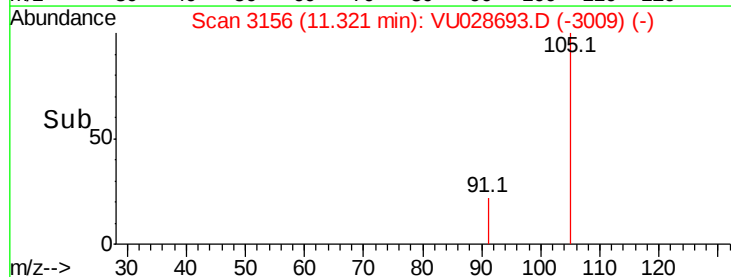
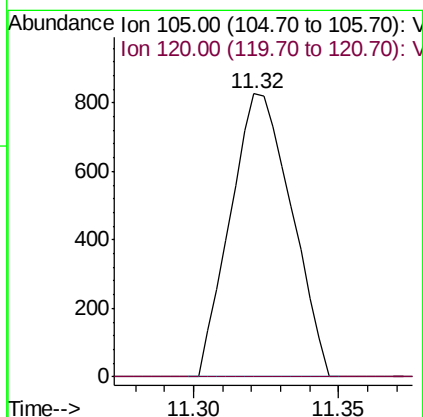
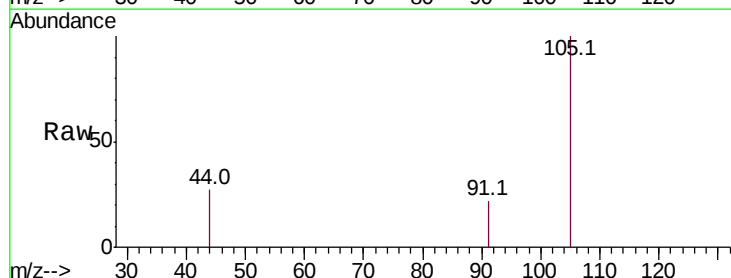
Instrument :
 MSVOA_U
 ClientSampled :

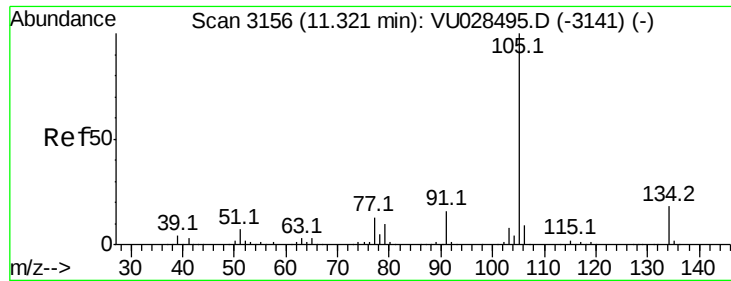
Tot Ion:119 Resp: 4785
 Ion Ratio Lower Upper
 119 100
 91 77.5 30.3 91.0
 134 23.0 11.2 33.5



#84
 1,2,4-Trimethylbenzene
 Concen: 0.376 ug/l
 RT: 11.32 min Scan# 3156
 Delta R.T. 0.17 min
 Lab File: VU028693.D
 Acq: 14 Dec 2018 19:16

Tgt Ion:105 Resp: 1211
 Ion Ratio Lower Upper
 105 100
 120 0.0 21.8 65.4#





#85

sec-Butylbenzene

Concen: 0.313 ug/l

RT: 11.32 min Scan# 3156

Delta R.T. -0.00 min

Lab File: VU028693.D

Acq: 14 Dec 2018 19:16

Instrument :

MSVOA_U

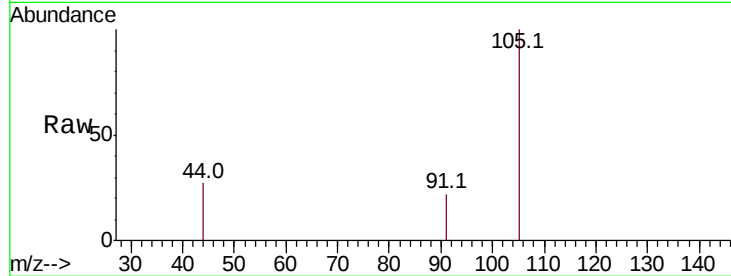
ClientSampleId :

Tot Ion:105 Resp: 1211

Ion Ratio Lower Upper

105 100

134 3.3 9.2 27.6#



Abundance Ion 105.00 (104.70 to 105.70): V

Ion 134.00 (133.70 to 134.70): V

11.32

800

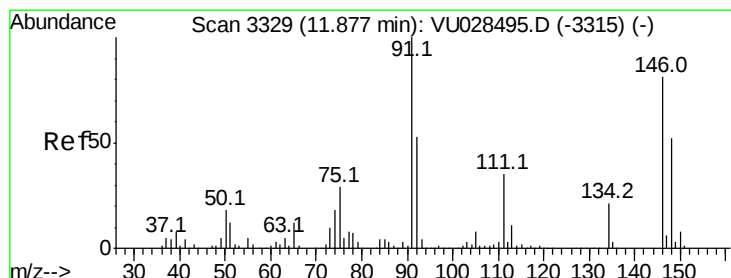
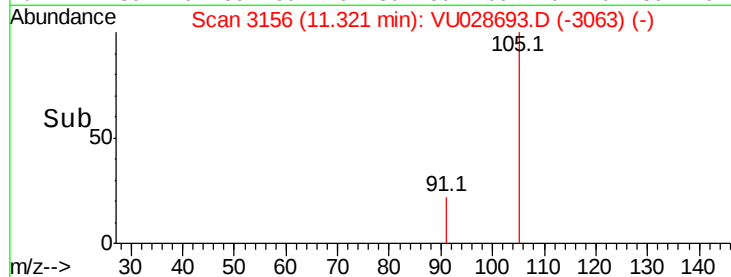
600

400

200

0

Time-->



#91

1,2-Dichlorobenzene

Concen: 1.683 ug/l

RT: 11.88 min Scan# 3330

Delta R.T. 0.00 min

Lab File: VU028693.D

Acq: 14 Dec 2018 19:16

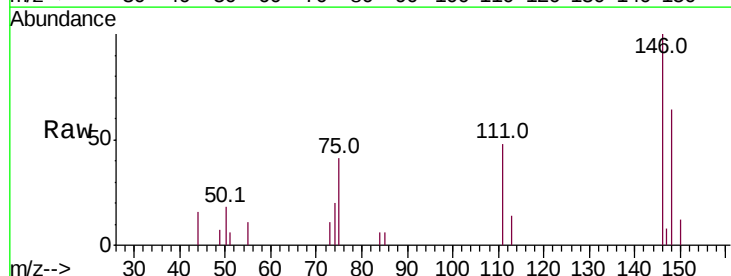
Tgt Ion:146 Resp: 2808

Ion Ratio Lower Upper

146 100

111 43.8 21.1 63.4

148 59.3 31.4 94.2



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

2000

1500

1000

500

0

Time-->

