

Data Path : Z:\VOASRV\HPCHEM1\MSVOA U\DATA\U120618\
 Data File : VU028505.D
 Acq On : 06 Dec 2018 16:58
 Operator : MD/SY
 Sample : J6259-22
 Misc : 5.0mL/MSVOA U/WATER
 ALS Vial : 15 Sample Multiplier: 1

Instrument :
 MSVOA_U
 ClientSampleId :
 BP-DUP02-20181205

Quant Time: Dec 07 06:16:06 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	101489	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	5.89	114	195738	50.00	ug/l	0.00
63) Chlorobenzene-d5	9.09	117	181315	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	11.48	152	84185	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	86445	55.81	ug/l	0.00
Spiked Amount			Recovery	=	111.62%	
35) Dibromofluoromethane	4.88	113	62894	51.06	ug/l	0.00
Spiked Amount			Recovery	=	102.12%	
50) Toluene-d8	7.57	98	253828	52.09	ug/l	0.00
Spiked Amount			Recovery	=	104.18%	
62) 4-Bromofluorobenzene	10.30	95	91879	50.45	ug/l	0.00
Spiked Amount			Recovery	=	100.90%	

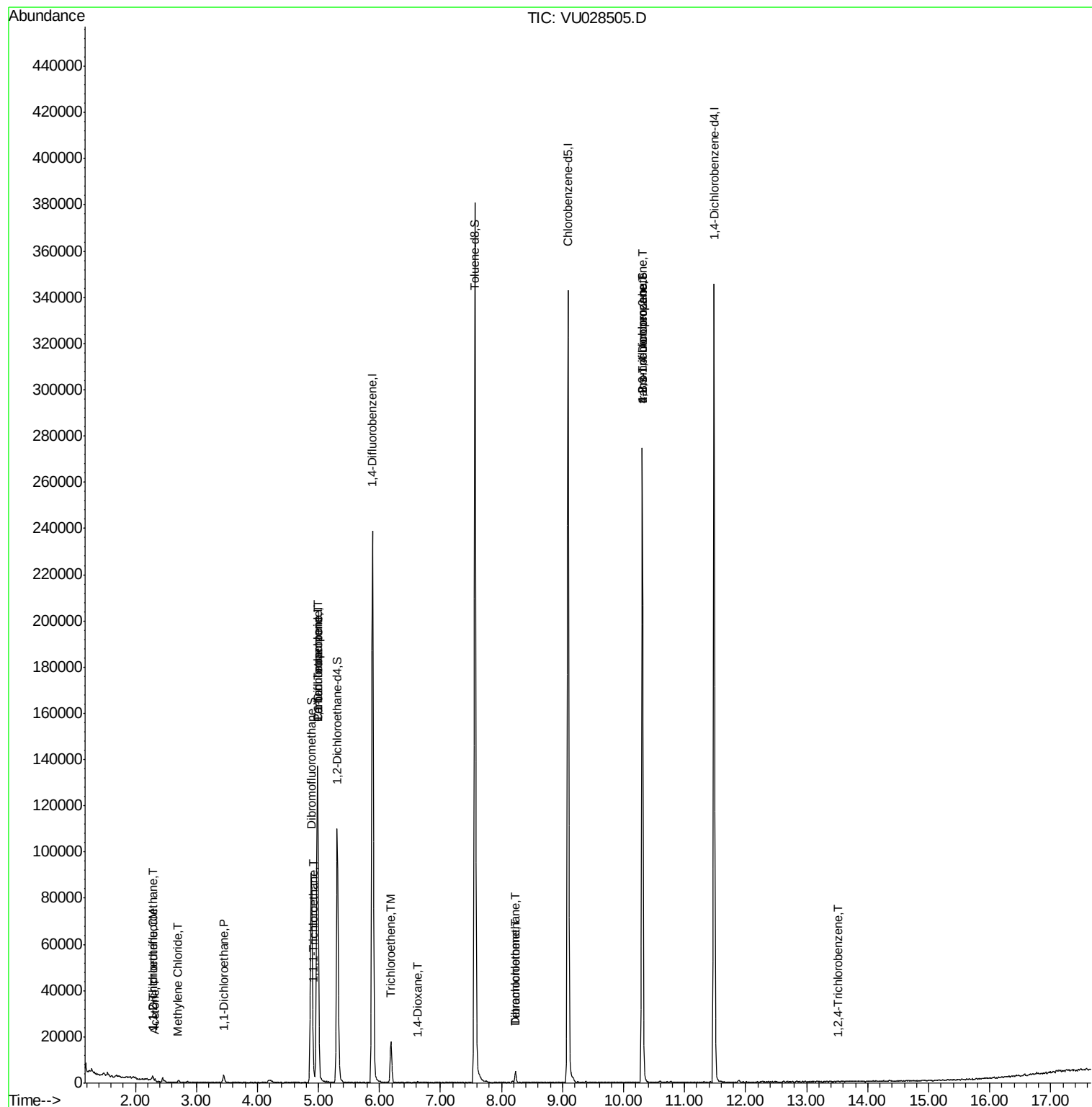
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
9) 1,1,2-Trichlorotrifluoroet	2.29	101	300	0.264	ug/l #	73
12) 1,1-Dichloroethene	2.29	96	480	0.425	ug/l #	73
16) Acetone	2.32	43	1391	1.376	ug/l #	87
20) Methylene Chloride	2.71	84	377	0.253	ug/l #	82
24) 1,1-Dichloroethane	3.45	63	3884	1.427	ug/l #	95
31) Cyclohexane	4.99	56	2275	Below Cal	#	1
32) 1,1,1-Trichloroethane	4.92	97	2160	1.097	ug/l #	30
36) 1,1-Dichloropropene	4.98	75	8961	4.184	ug/l #	49
38) Carbon Tetrachloride	4.98	117	10016	5.802	ug/l #	15
44) Trichloroethene	6.19	130	5881	4.193	ug/l	95
49) 1,4-Dioxane	6.62	88	177	5.147	ug/l #	71
60) Dibromochloromethane	8.23	129	1065	0.741	ug/l #	10
64) Tetrachloroethene	8.23	164	1201	0.993	ug/l #	86
76) 1,2,3-Trichloropropane	10.31	75	47532	22.111	ug/l #	36
81) trans-1,4-Dichloro-2-buten	10.31	75	47532	54.319	ug/l #	100
93) 1,2,4-Trichlorobenzene	13.52	180	20	0.854	ug/l #	1

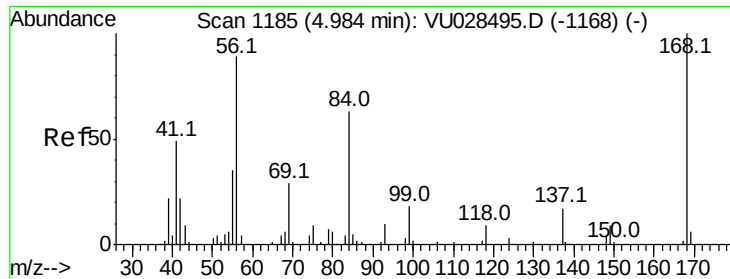
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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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: VU028505.D

Acq: 06 Dec 2018 16:58

Instrument :

MSVOA_U

ClientSampleId :

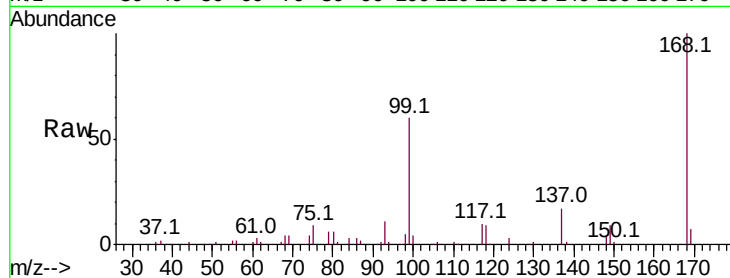
BP-DUP02-20181205

Tot Ion:168 Resp: 101489

Ion Ratio Lower Upper

168 100

99 59.7 46.6 69.8



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VU0

4.98

50000

40000

30000

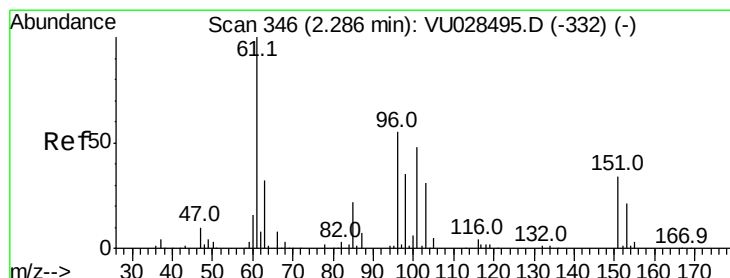
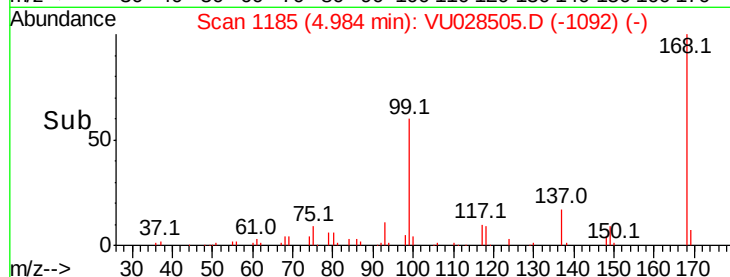
20000

10000

0

4.90 4.95 5.00 5.05 5.10

Time-->



#9

1,1,2-Trichlorotrifluoroethane

Concen: 0.264 ug/l

RT: 2.29 min Scan# 347

Delta R.T. 0.00 min

Lab File: VU028505.D

Acq: 06 Dec 2018 16:58

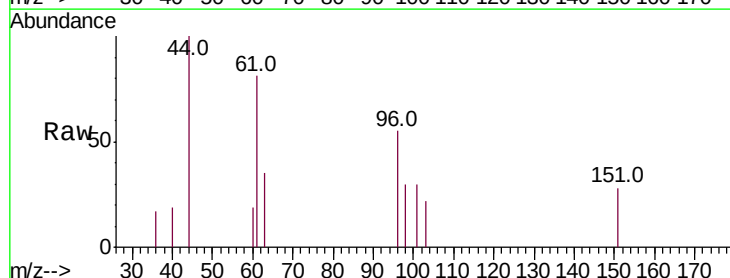
Tgt Ion:101 Resp: 300

Ion Ratio Lower Upper

101 100

85 0.0 36.4 54.6#

151 72.7 58.2 87.2



Abundance Ion 100.90 (100.60 to 101.60): V

Ion 84.90 (84.60 to 85.60): VU0

Ion 150.80 (150.50 to 151.50): V

2.29

250

200

150

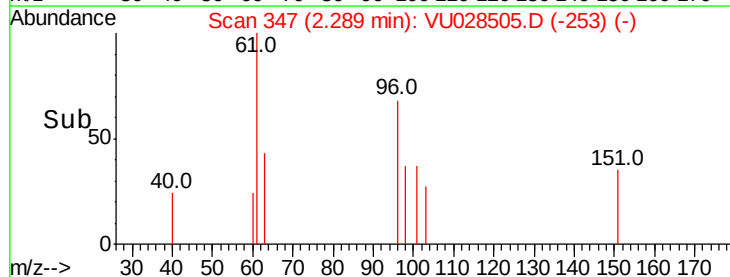
100

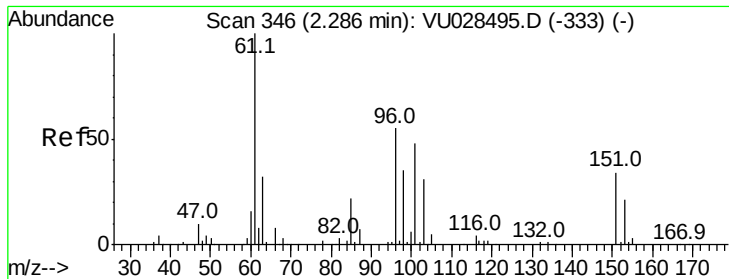
50

0

2.26 2.28 2.30 2.32

Time-->





#12

1,1-Dichloroethene

Concen: 0.425 ug/l

RT: 2.29 min Scan# 346

Delta R.T. -0.00 min

Lab File: VU028505.D

Acq: 06 Dec 2018 16:58

Instrument :

MSVOA_U

ClientSampleId :

BP-DUP02-20181205

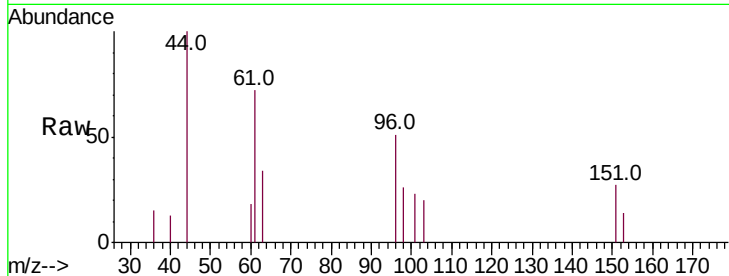
Tot Ion: 96 Resp: 480

Ion Ratio Lower Upper

96 100

61 139.7 146.4 219.6#

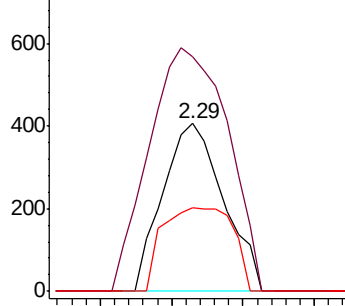
98 50.0 51.8 77.8#



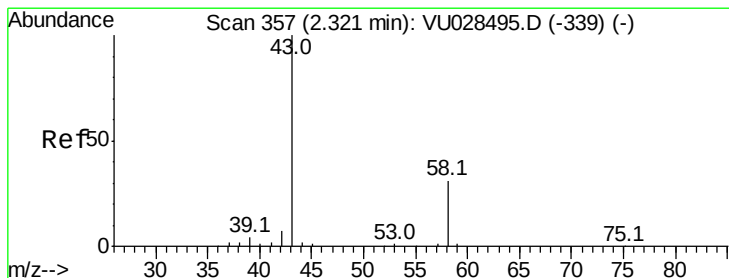
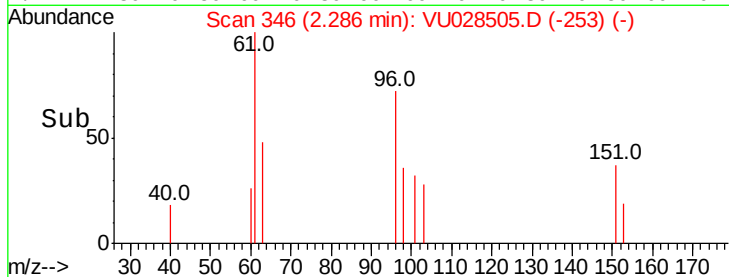
Abundance Ion 95.90 (95.60 to 96.60): VU0

Ion 60.90 (60.60 to 61.60): VU0

Ion 97.90 (97.60 to 98.60): VU0



Time-->



#16

Acetone

Concen: 1.376 ug/l

RT: 2.32 min Scan# 358

Delta R.T. 0.00 min

Lab File: VU028505.D

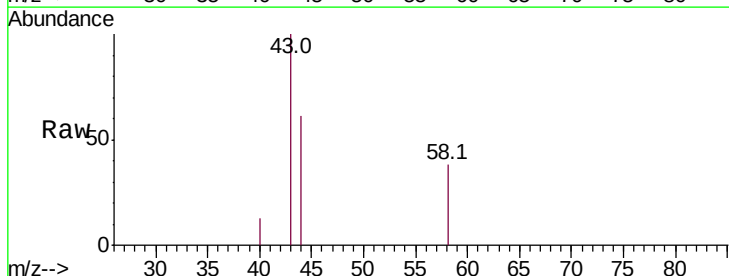
Acq: 06 Dec 2018 16:58

Tgt Ion: 43 Resp: 1391

Ion Ratio Lower Upper

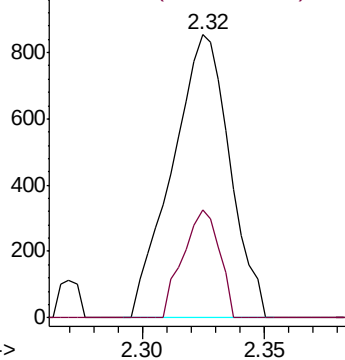
43 100

58 38.1 24.6 37.0#

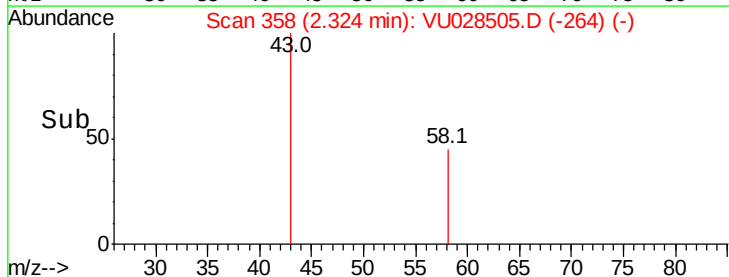


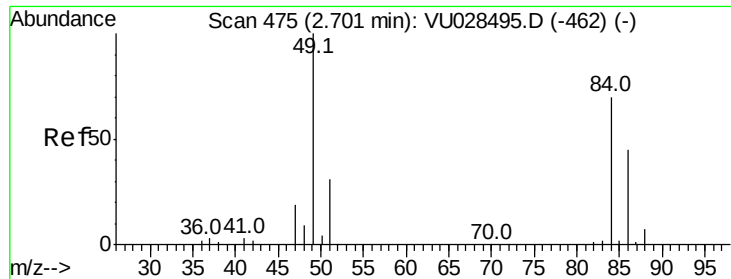
Abundance Ion 43.00 (42.70 to 43.70): VU0

Ion 58.00 (57.70 to 58.70): VU0



Time-->

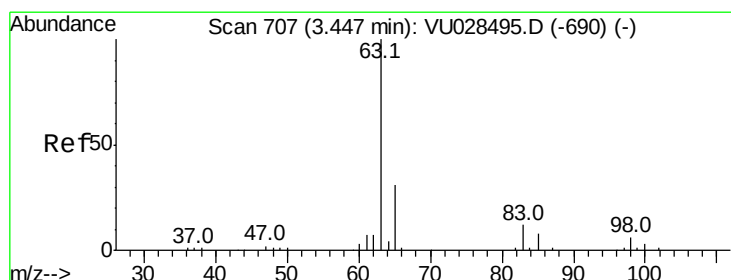
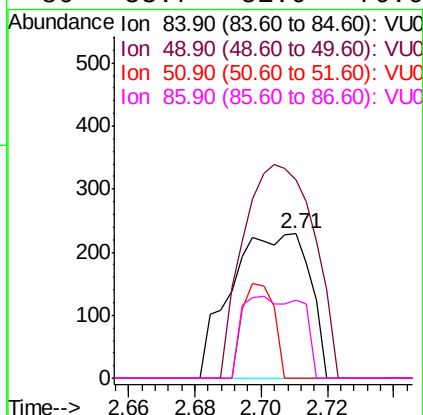
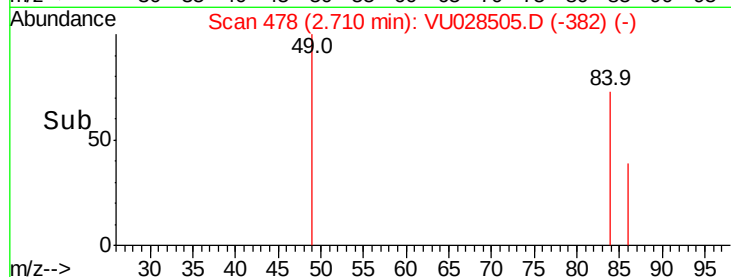
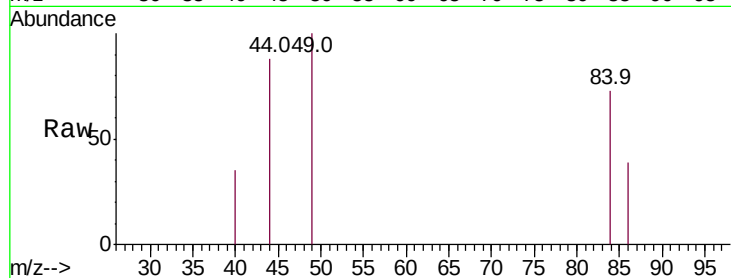




#20
Methylene Chloride
Concen: 0.253 ug/l
RT: 2.71 min Scan# 478
Delta R.T. 0.01 min
Lab File: VU028505.D
Acq: 06 Dec 2018 16:58

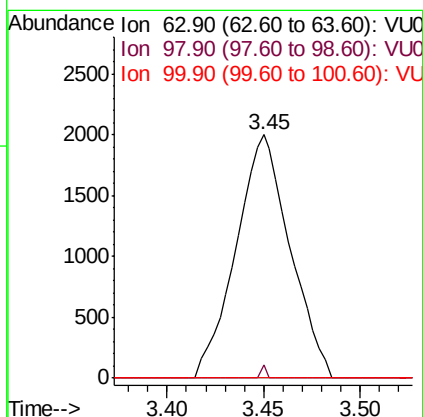
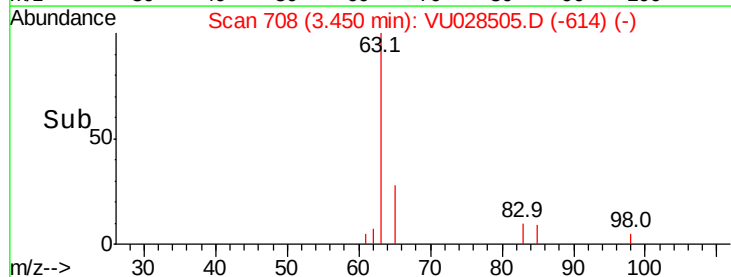
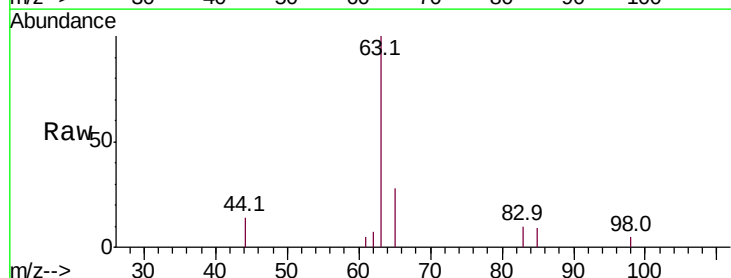
Instrument :
MSVOA_U
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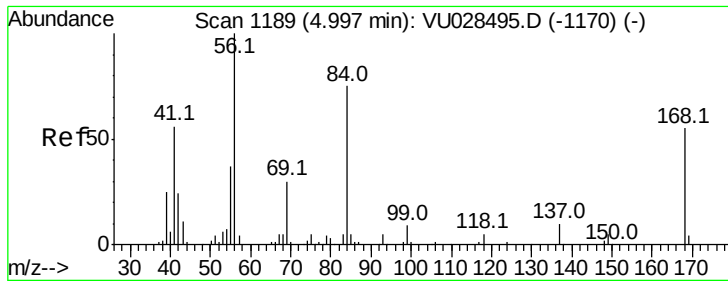
Tot Ion: 84 Resp: 377
Ion Ratio Lower Upper
84 100
49 137.6 114.0 171.0
51 0.0 35.1 52.7#
86 53.7 51.0 76.6



#24
1,1-Dichloroethane
Concen: 1.427 ug/l
RT: 3.45 min Scan# 708
Delta R.T. 0.00 min
Lab File: VU028505.D
Acq: 06 Dec 2018 16:58

Tgt Ion: 63 Resp: 3884
Ion Ratio Lower Upper
63 100
98 5.3 3.0 9.2
100 0.0 1.7 5.1#

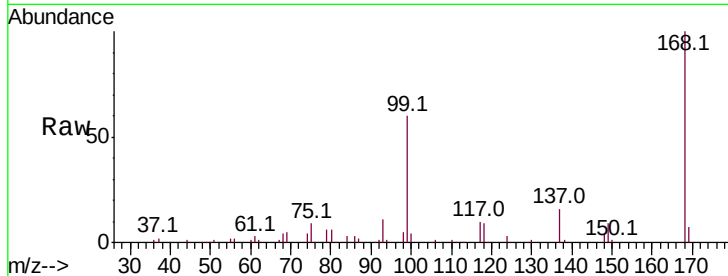




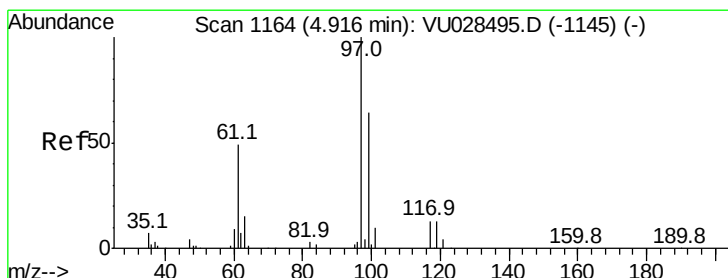
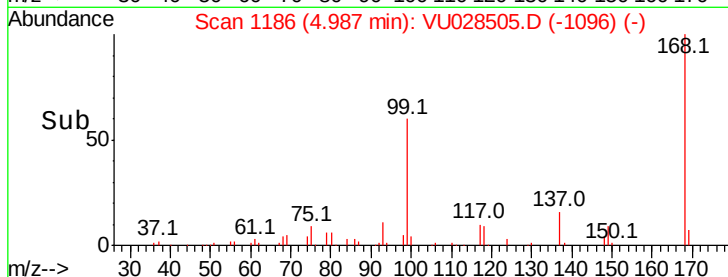
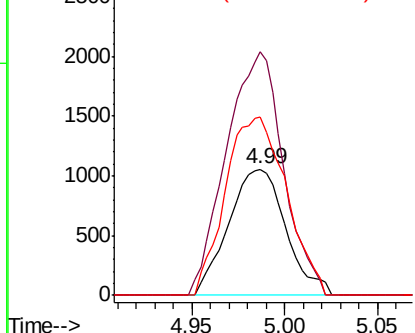
#31
Cyclohexane
Concen: Below Cal
RT: 4.99 min Scan# 1186
Delta R.T. -0.01 min
Lab File: VU028505.D
Acq: 06 Dec 2018 16:58

Instrument :
MSVOA_U
ClientSampleId :
BP-DUP02-20181205

Tot Ion: 56 Resp: 2275
Ion Ratio Lower Upper
56 100
69 192.7 24.0 36.0#
84 140.9 59.7 89.5#

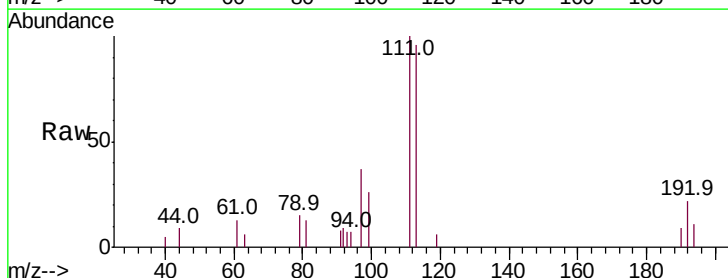


Abundance Ion 56.00 (55.70 to 56.70): VU0
Ion 69.00 (68.70 to 69.70): VU0
Ion 84.00 (83.70 to 84.70): VU0

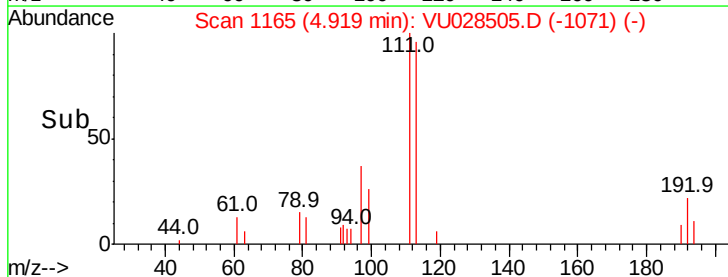
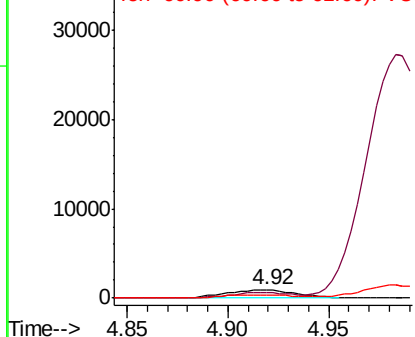


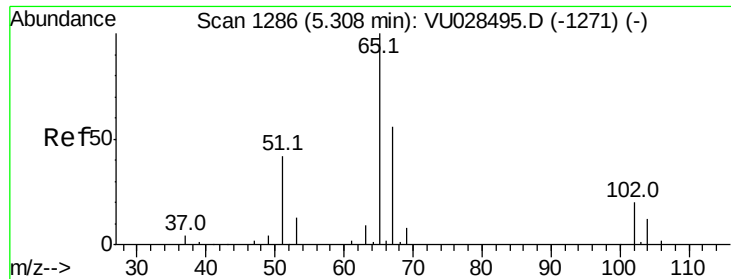
#32
1,1,1-Trichloroethane
Concen: 1.097 ug/l
RT: 4.92 min Scan# 1165
Delta R.T. 0.00 min
Lab File: VU028505.D
Acq: 06 Dec 2018 16:58

Tgt Ion: 97 Resp: 2160
Ion Ratio Lower Upper
97 100
99 0.0 52.3 78.5#
61 12.8 39.0 58.6#



Abundance Ion 96.90 (96.60 to 97.60): VU0
Ion 98.90 (98.60 to 99.60): VU0
Ion 60.90 (60.60 to 61.60): VU0

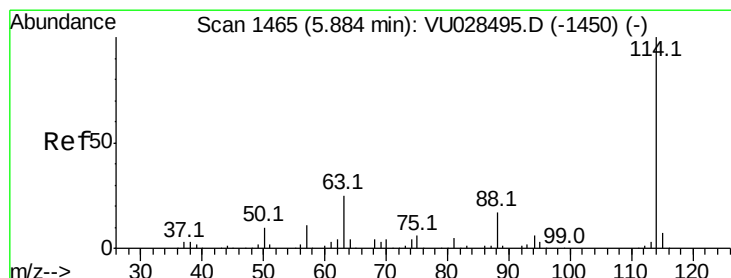
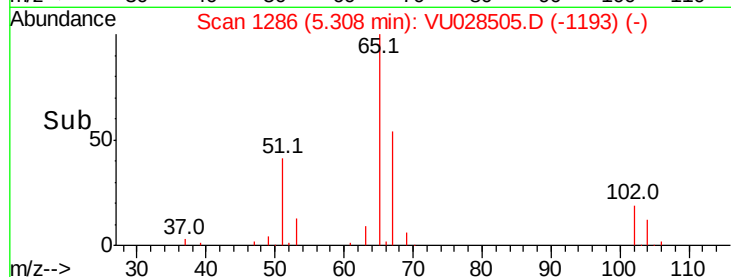
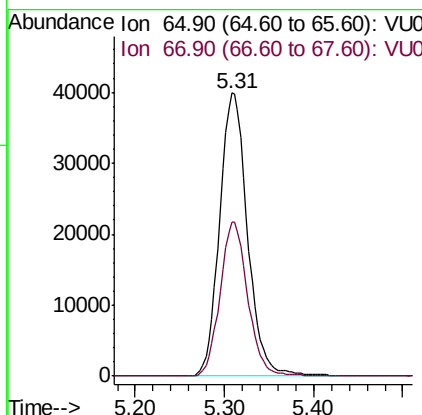
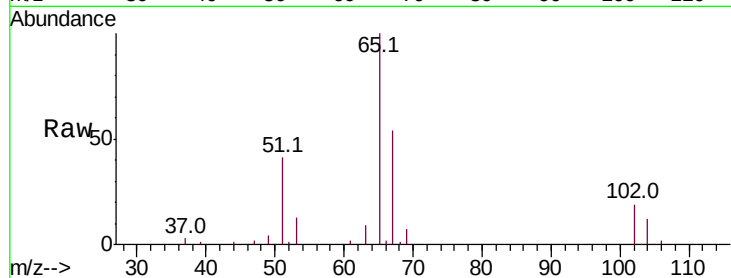




#33
 1,2-Dichloroethane-d4
 Concen: 55.815 ug/l
 RT: 5.31 min Scan# 1286
 Delta R.T. -0.00 min
 Lab File: VU028505.D
 Acq: 06 Dec 2018 16:58

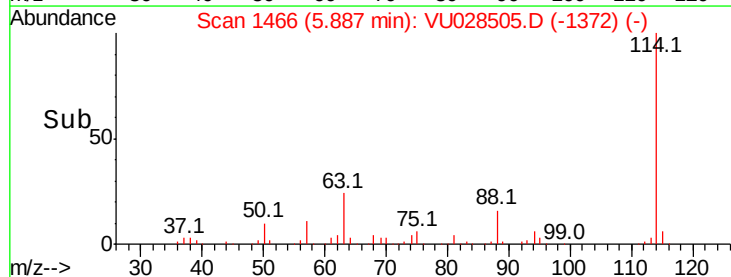
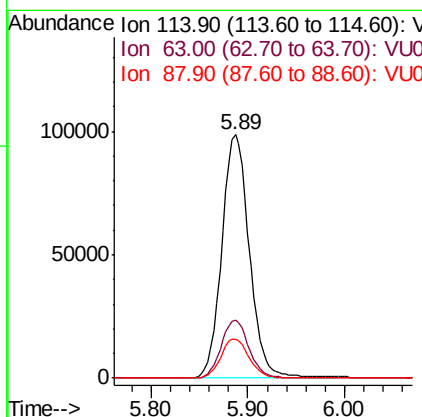
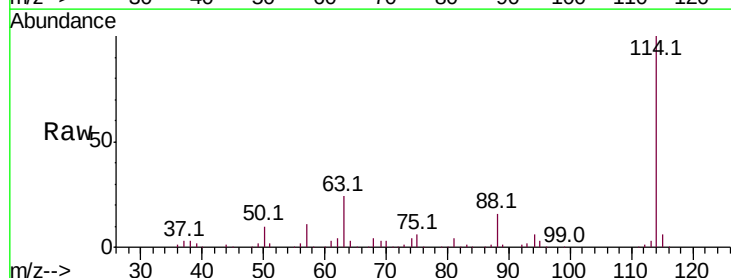
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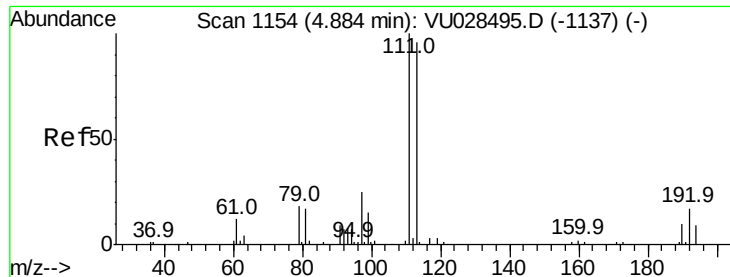
Tot Ion: 65 Resp: 86445
 Ion Ratio Lower Upper
 65 100
 67 53.7 0.0 110.6



#34
 1,4-Difluorobenzene
 Concen: 50.000 ug/l
 RT: 5.89 min Scan# 1466
 Delta R.T. 0.00 min
 Lab File: VU028505.D
 Acq: 06 Dec 2018 16:58

Tgt Ion: 114 Resp: 195738
 Ion Ratio Lower Upper
 114 100
 63 23.7 0.0 49.2
 88 15.9 0.0 33.4





#35

Dibromofluoromethane

Concen: 51.059 ug/l

RT: 4.88 min Scan# 1154

Delta R.T. -0.00 min

Lab File: VU028505.D

Acq: 06 Dec 2018 16:58

Instrument :

MSVOA_U

ClientSampleId :

BP-DUP02-20181205

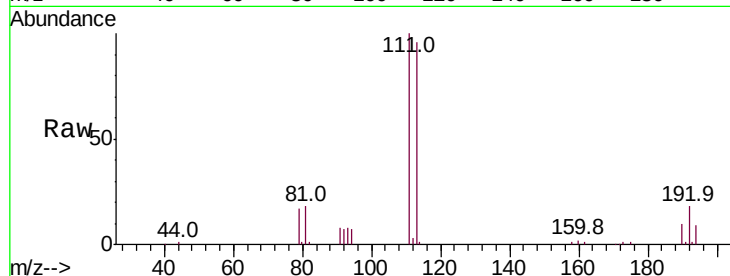
Tot Ion:113 Resp: 62894

Ion Ratio Lower Upper

113 100

111 103.3 83.4 125.0

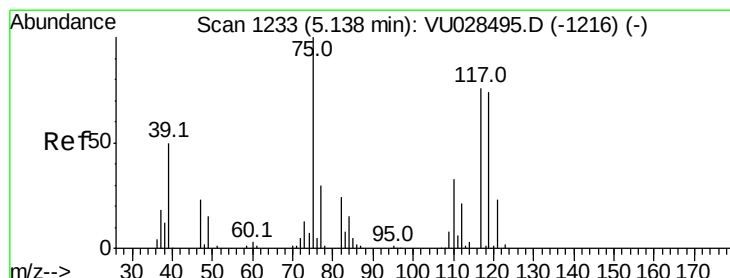
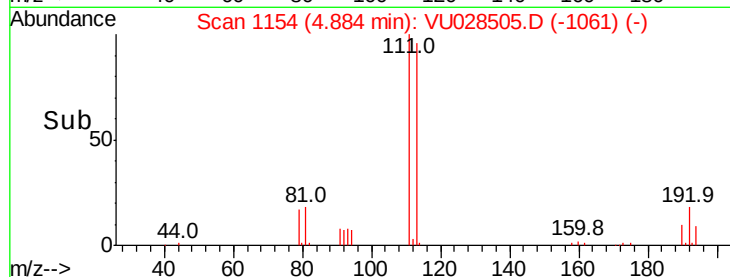
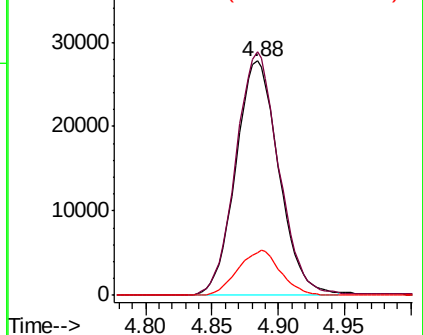
192 19.1 14.8 22.2



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: 4.184 ug/l

RT: 4.98 min Scan# 1185

Delta R.T. -0.15 min

Lab File: VU028505.D

Acq: 06 Dec 2018 16:58

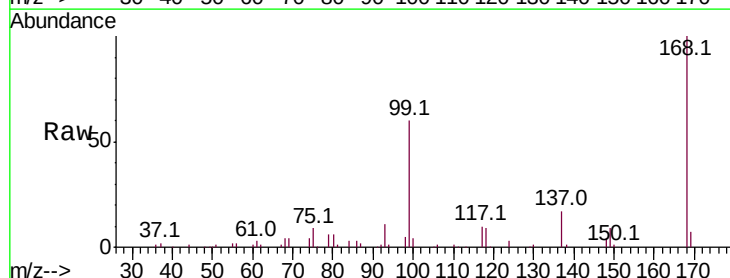
Tgt Ion: 75 Resp: 8961

Ion Ratio Lower Upper

75 100

110 6.5 16.1 48.2#

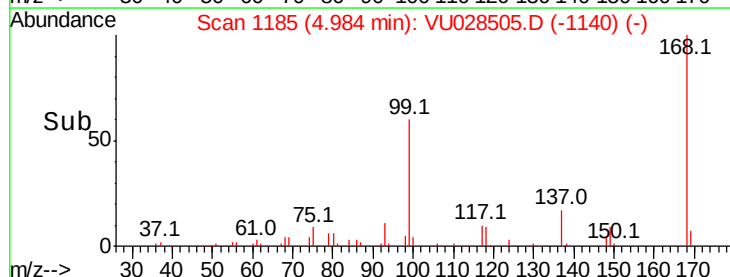
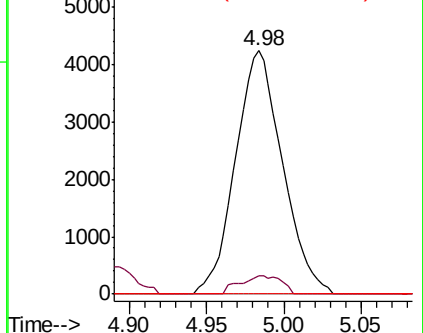
77 0.0 24.5 36.7#

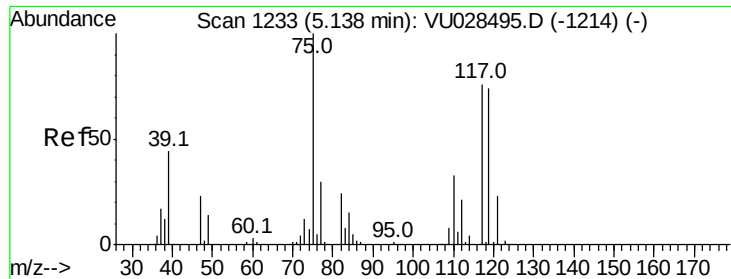


Abundance Ion 74.90 (74.60 to 75.60): VU0

Ion 109.90 (109.60 to 110.60): V

Ion 76.90 (76.60 to 77.60): VU0





#38

Carbon Tetrachloride

Concen: 5.802 ug/l

RT: 4.98 min Scan# 1185

Delta R.T. -0.15 min

Lab File: VU028505.D

Acq: 06 Dec 2018 16:58

Instrument :

MSVOA_U

ClientSampleId :

BP-DUP02-20181205

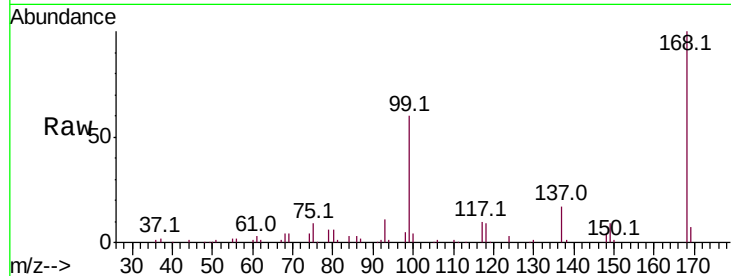
Tot Ion:117 Resp: 10016

Ion Ratio Lower Upper

117 100

119 4.3 77.6 116.4#

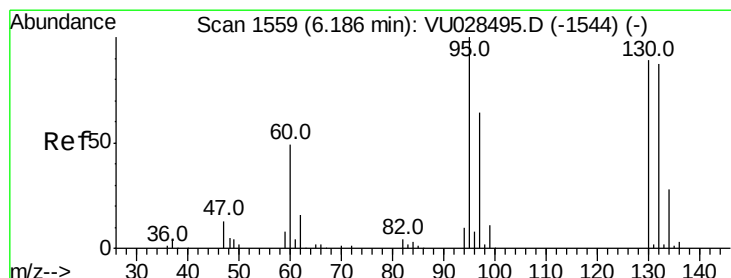
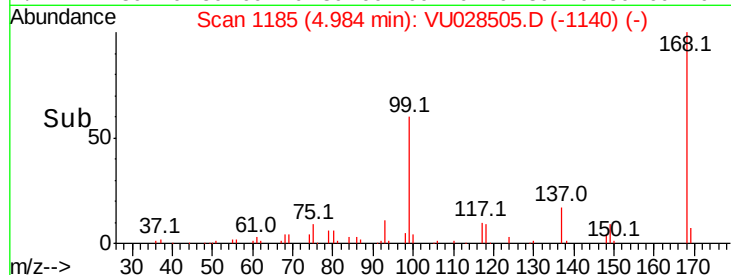
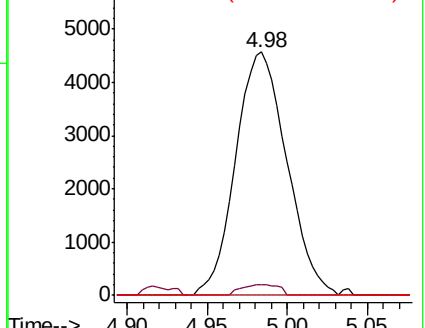
121 0.0 24.6 36.8#



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: 4.193 ug/l

RT: 6.19 min Scan# 1560

Delta R.T. 0.00 min

Lab File: VU028505.D

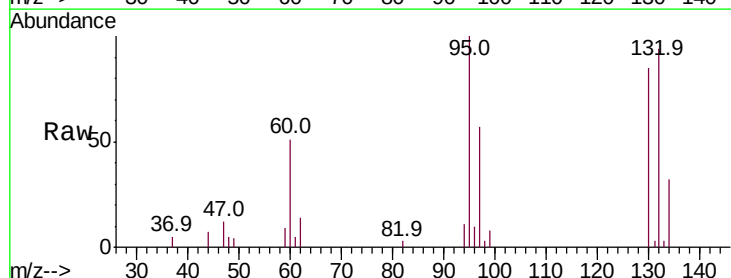
Acq: 06 Dec 2018 16:58

Tgt Ion:130 Resp: 5881

Ion Ratio Lower Upper

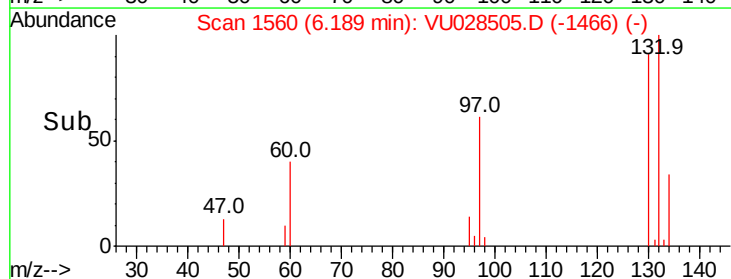
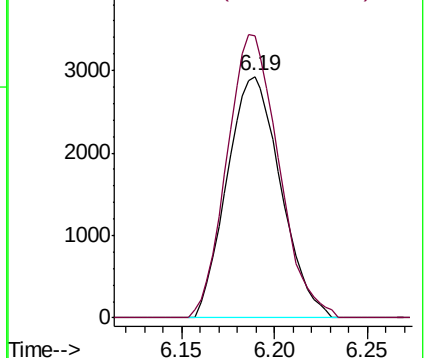
130 100

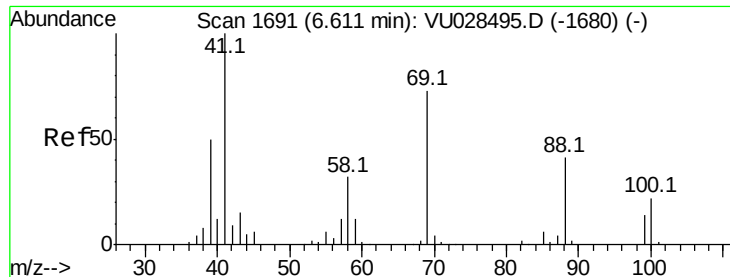
95 117.2 0.0 224.0



Abundance Ion 129.80 (129.50 to 130.50): V

Ion 94.90 (94.60 to 95.60): VU0





#49

1,4-Dioxane

Concen: 5.147 ug/l

RT: 6.62 min Scan# 1695

Delta R.T. 0.01 min

Lab File: VU028505.D

Acq: 06 Dec 2018 16:58

Instrument :

MSVOA_U

ClientSampleId :

BP-DUP02-20181205

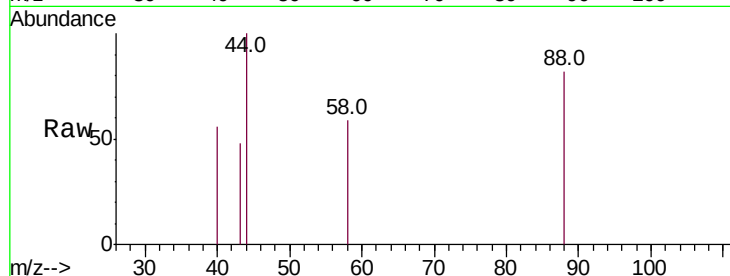
Tot Ion: 88 Resp: 177

Ion Ratio Lower Upper

88 100

43 10.7 30.9 46.3#

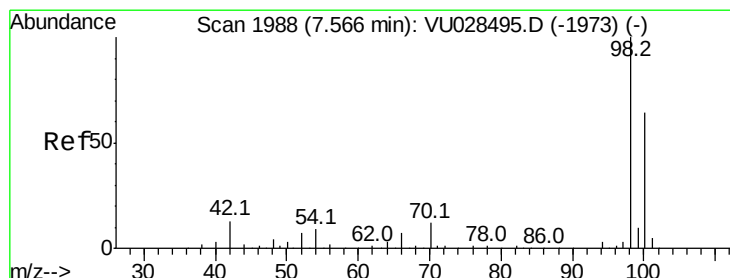
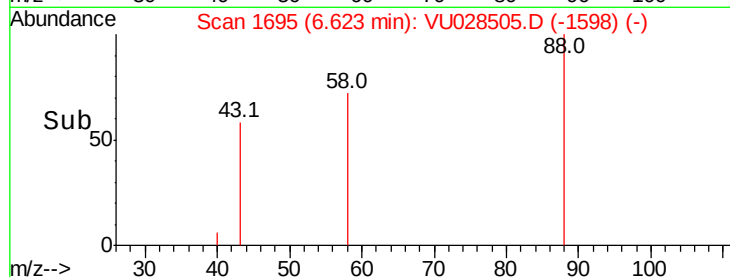
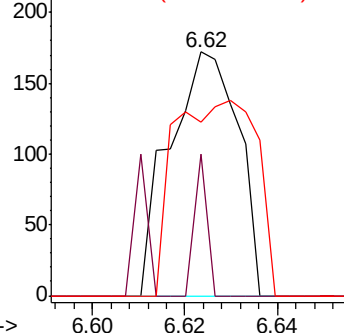
58 96.6 62.4 93.6#



Abundance Ion 88.00 (87.70 to 88.70): VU0

Ion 43.00 (42.70 to 43.70): VU0

Ion 58.00 (57.70 to 58.70): VU0



#50

Toluene-d8

Concen: 52.091 ug/l

RT: 7.57 min Scan# 1988

Delta R.T. -0.00 min

Lab File: VU028505.D

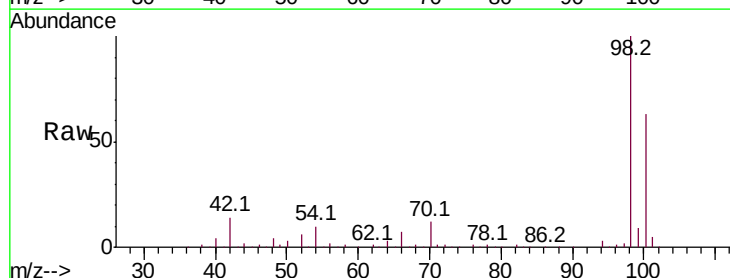
Acq: 06 Dec 2018 16:58

Tgt Ion: 98 Resp: 253828

Ion Ratio Lower Upper

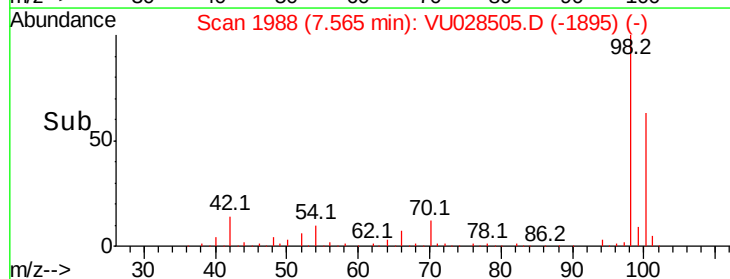
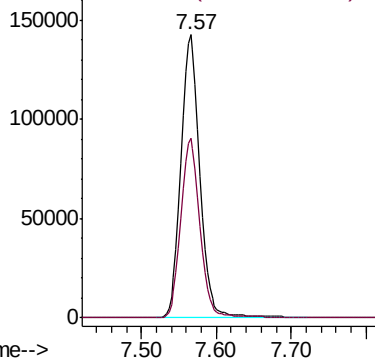
98 100

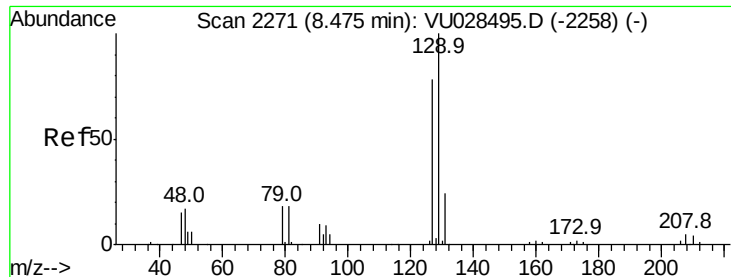
100 64.0 51.0 76.6



Abundance Ion 98.00 (97.70 to 98.70): VU0

Ion 100.00 (99.70 to 100.70): VU0





#60

Dibromochloromethane

Concen: 0.741 ug/l

RT: 8.23 min Scan# 2194

Delta R.T. -0.25 min

Lab File: VU028505.D

Acq: 06 Dec 2018 16:58

Instrument :

MSVOA_U

ClientSampleId :

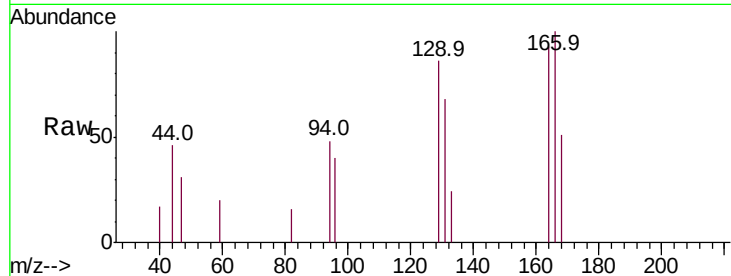
BP-DUP02-20181205

Tot Ion:129 Resp: 1065

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

8.23

800

600

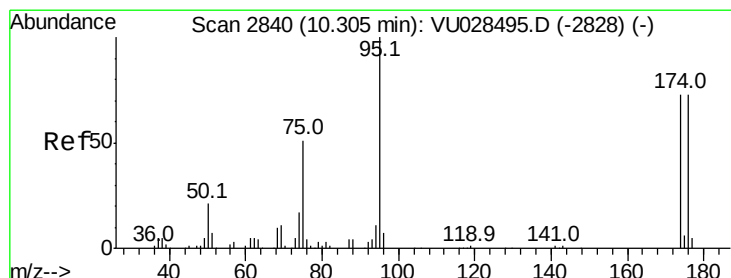
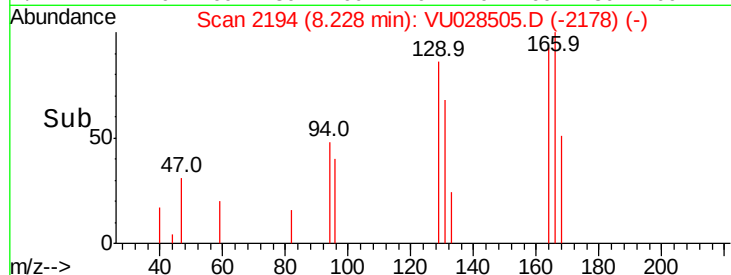
400

200

0

8.20 8.25

Time-->



#62

4-Bromofluorobenzene

Concen: 50.448 ug/l

RT: 10.30 min Scan# 2840

Delta R.T. -0.00 min

Lab File: VU028505.D

Acq: 06 Dec 2018 16:58

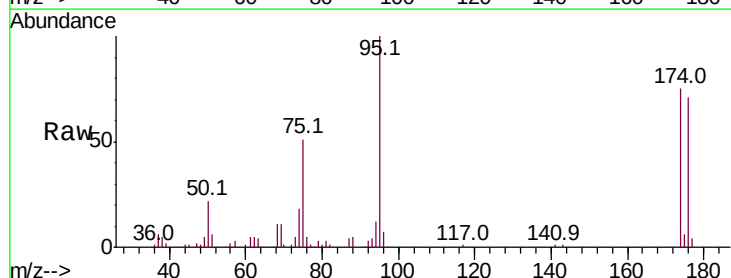
Tgt Ion: 95 Resp: 91879

Ion Ratio Lower Upper

95 100

174 75.8 0.0 150.4

176 72.6 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

60000

40000

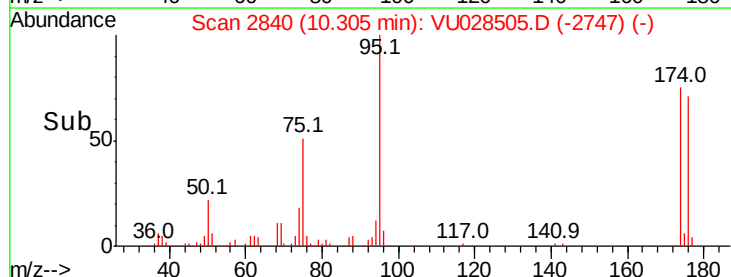
20000

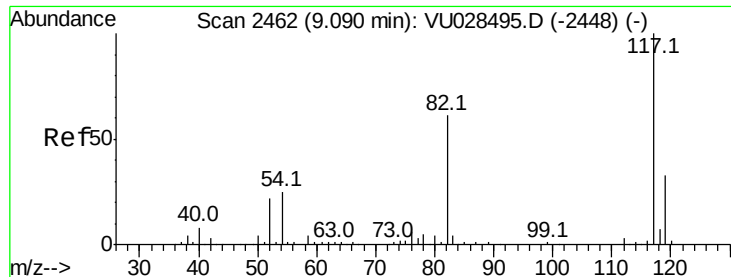
0

10.30

10.40

Time-->

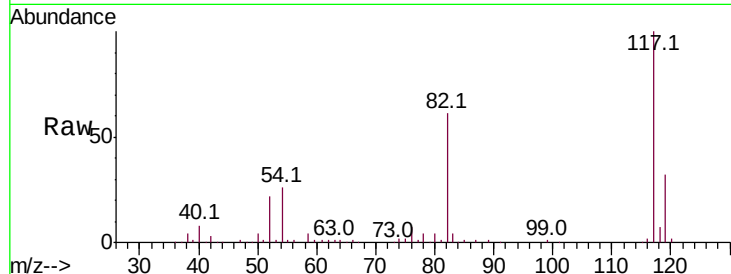




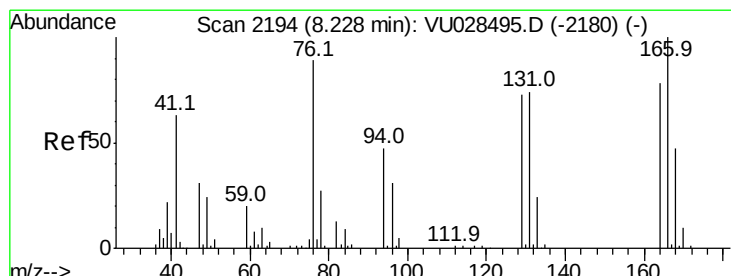
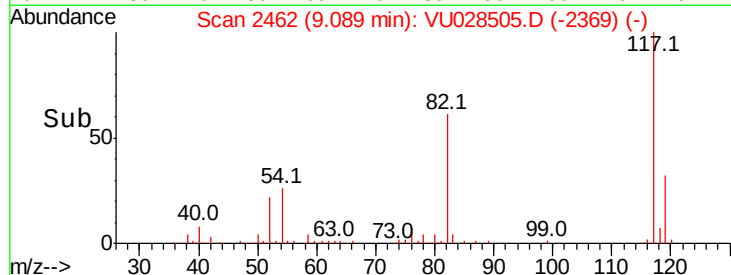
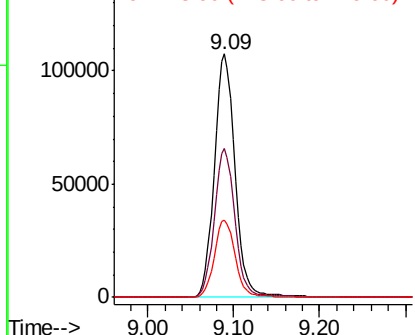
#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 9.09 min Scan# 2462
Delta R.T. -0.00 min
Lab File: VU028505.D
Acq: 06 Dec 2018 16:58

Instrument :
MSVOA_U
ClientSampleId :
BP-DUP02-20181205

Tot Ion:117 Resp: 181315
Ion Ratio Lower Upper
117 100
82 61.0 48.9 73.3
119 31.7 26.2 39.4

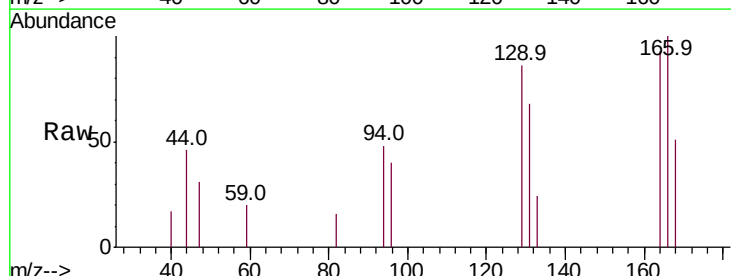


Abundance Ion 116.90 (116.60 to 117.60): V
Ion 82.00 (81.70 to 82.70): VU0
Ion 118.90 (118.60 to 119.60): V

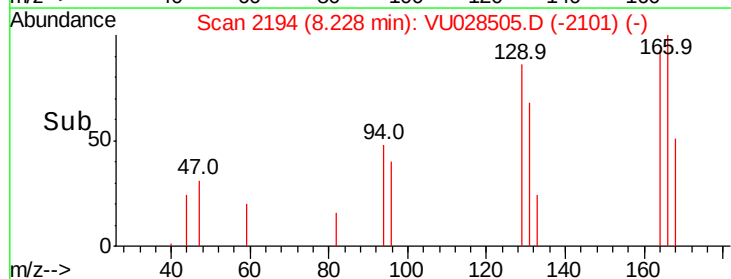
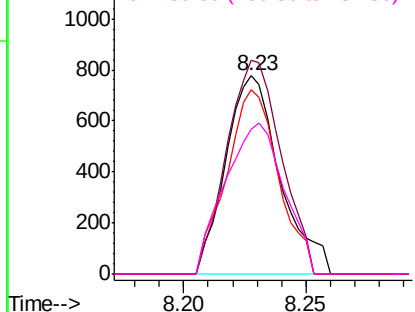


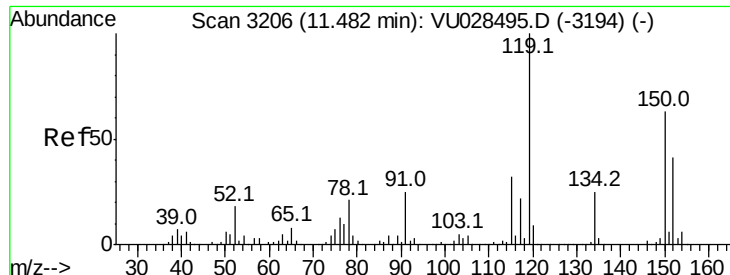
#64
Tetrachloroethene
Concen: 0.993 ug/l
RT: 8.23 min Scan# 2194
Delta R.T. -0.00 min
Lab File: VU028505.D
Acq: 06 Dec 2018 16:58

Tgt Ion:164 Resp: 1201
Ion Ratio Lower Upper
164 100
166 107.9 101.9 152.9
129 92.8 74.9 112.3
131 73.3 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

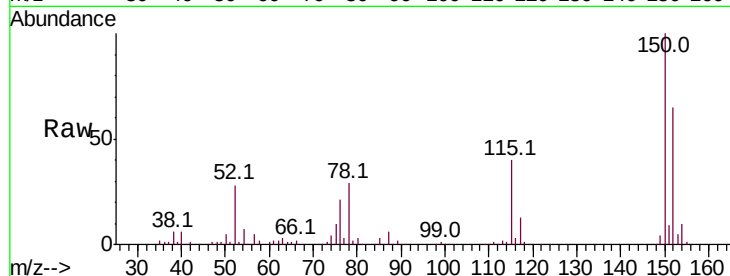




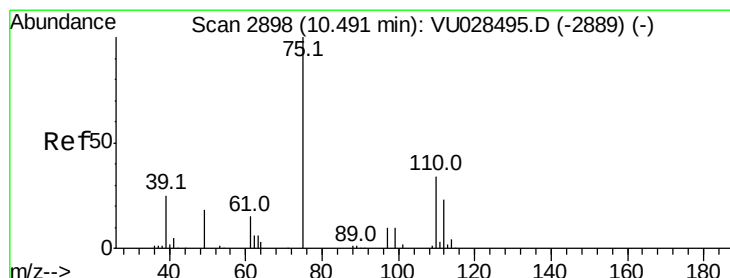
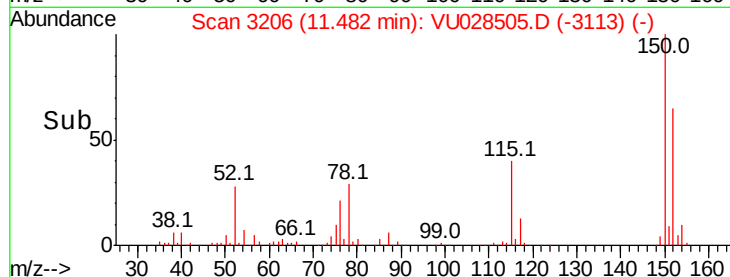
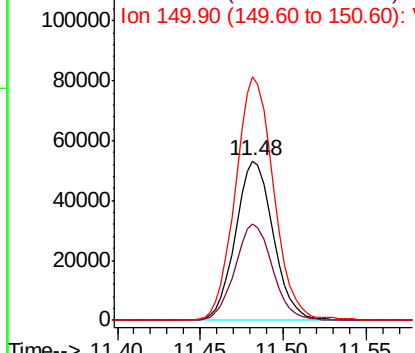
#72
 1,4-Dichlorobenzene-d4
 Concen: 50.000 ug/l
 RT: 11.48 min Scan# 3206
 Delta R.T. -0.00 min
 Lab File: VU028505.D
 Acq: 06 Dec 2018 16:58

Instrument :
 MSVOA_U
 ClientSampleId :
 BP-DUP02-20181205

Tot Ion:152 Resp: 84185
 Ion Ratio Lower Upper
 152 100
 115 60.5 42.7 128.1
 150 155.2 0.0 346.0

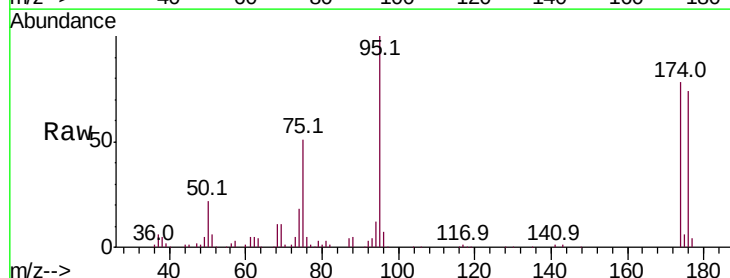


Abundance Ion 151.90 (151.60 to 152.60): V
 Ion 114.90 (114.60 to 115.60): V
 Ion 149.90 (149.60 to 150.60): V

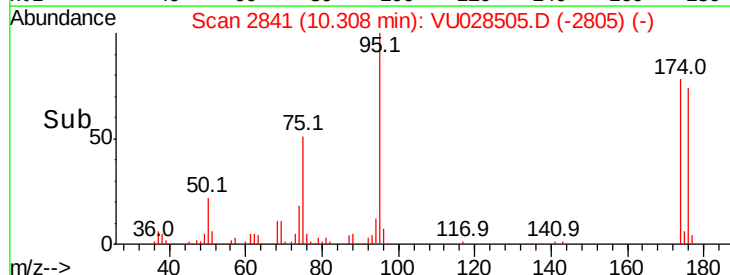
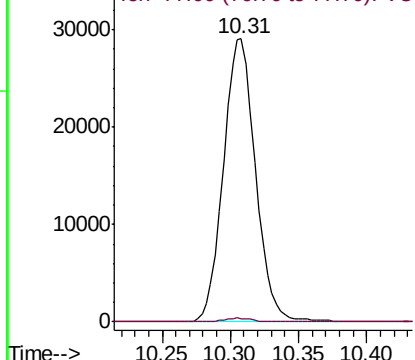


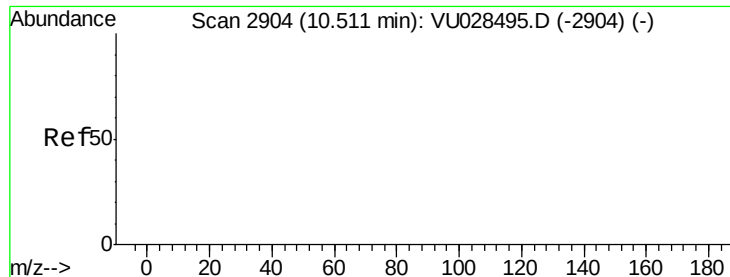
#76
 1,2,3-Trichloropropane
 Concen: 22.111 ug/l
 RT: 10.31 min Scan# 2841
 Delta R.T. -0.18 min
 Lab File: VU028505.D
 Acq: 06 Dec 2018 16:58

Tgt Ion: 75 Resp: 47532
 Ion Ratio Lower Upper
 75 100
 77 1.0 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: 54.319 ug/l

RT: 10.31 min Scan# 2841

Delta R.T. -0.20 min

Lab File: VU028505.D

Acq: 06 Dec 2018 16:58

Instrument :

MSVOA_U

ClientSampleId :

BP-DUP02-20181205

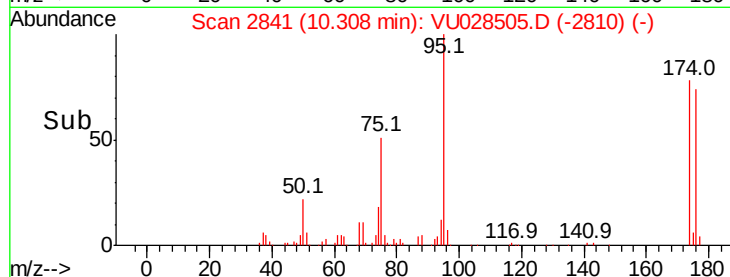
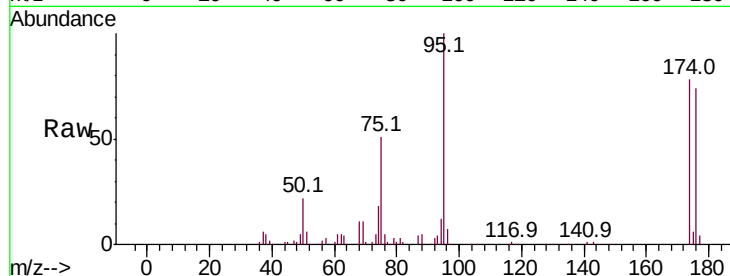
Tot Ion: 75 Resp: 47532

Ion Ratio Lower Upper

75 100

53 0.0 0.0 0.0

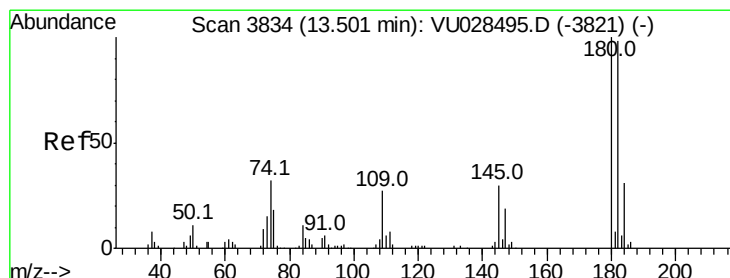
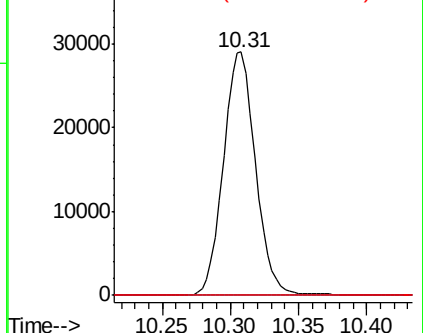
89 0.0 0.0 0.0



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



#93

1,2,4-Trichlorobenzene

Concen: 0.854 ug/l

RT: 13.52 min Scan# 3840

Delta R.T. 0.02 min

Lab File: VU028505.D

Acq: 06 Dec 2018 16:58

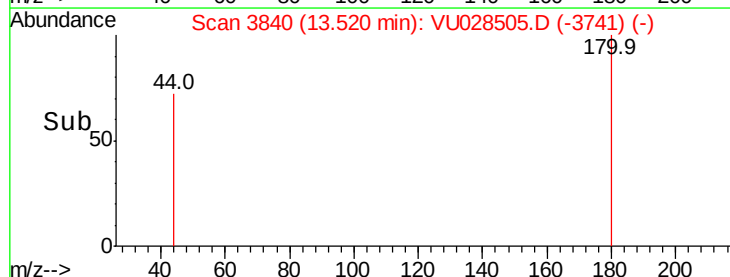
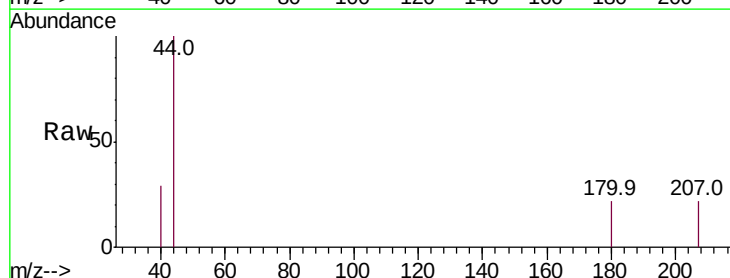
Tgt Ion: 180 Resp: 20

Ion Ratio Lower Upper

180 100

182 495.0 47.9 143.8#

145 0.0 15.0 45.1#



Abundance Ion 179.80 (179.50 to 180.50): V

Ion 181.80 (181.50 to 182.50): V

Ion 144.80 (144.50 to 145.50): V

