

Data Path : Z:\VOASRV\HPCHEM1\MSVOA U\DATA\U121118\
 Data File : VU028558.D
 Acq On : 10 Dec 2018 17:59
 Operator : MD/SY
 Sample : J6323-09
 Misc : 5.0mL/MSVOA U/WATER
 ALS Vial : 13 Sample Multiplier: 1

Instrument :
 MSVOA_U
 ClientSampleId :
 RE-126D2-20181207

Quant Time: Dec 11 03:39:18 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	86111	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	5.89	114	163974	50.00	ug/l	0.00
63) Chlorobenzene-d5	9.09	117	148352	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	11.48	152	59248	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	74453	56.66	ug/l	0.00
Spiked Amount			Recovery	=	113.32%	
35) Dibromofluoromethane	4.88	113	54463	52.78	ug/l	0.00
Spiked Amount			Recovery	=	105.56%	
50) Toluene-d8	7.57	98	213015	52.18	ug/l	0.00
Spiked Amount			Recovery	=	104.36%	
62) 4-Bromofluorobenzene	10.30	95	71237	46.69	ug/l	0.00
Spiked Amount			Recovery	=	93.38%	

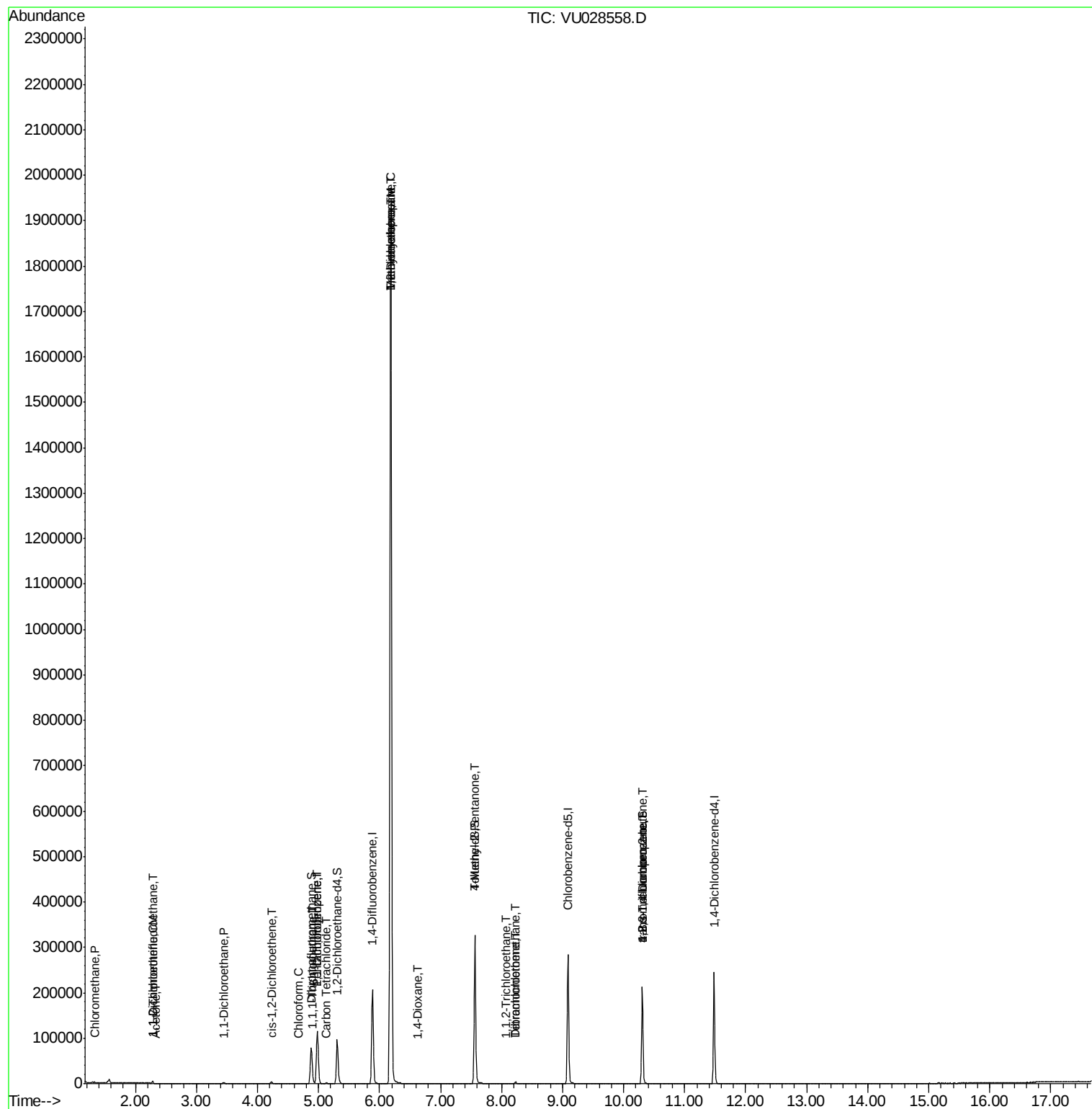
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
3) Chloromethane	1.33	50	1059	0.499	ug/l	97
9) 1,1,2-Trichlorotrifluoroet	2.29	101	576	0.598	ug/l #	59
12) 1,1-Dichloroethene	2.28	96	1212	1.264	ug/l	98
16) Acetone	2.32	43	477	0.556	ug/l #	44
24) 1,1-Dichloroethane	3.45	63	3060	1.325	ug/l #	85
27) cis-1,2-Dichloroethene	4.23	96	2010	1.645	ug/l	93
30) Chloroform	4.67	83	692	0.344	ug/l #	81
31) Cyclohexane	4.98	56	2086	Below Cal	#	1
32) 1,1,1-Trichloroethane	4.92	97	639	0.382	ug/l #	41
36) 1,1-Dichloropropene	4.98	75	7678	4.279	ug/l #	50
38) Carbon Tetrachloride	5.14	117	868	0.600	ug/l	90
39) Methylcyclohexane	6.19	83	8205	3.748	ug/l #	1
44) Trichloroethene	6.19	130	605427	515.233	ug/l	99
45) 1,2-Dichloropropane	6.18	63	2254	1.517	ug/l #	1
49) 1,4-Dioxane	6.62	88	211	7.324	ug/l #	35
51) 4-Methyl-2-Pentanone	7.57	43	1076	0.465	ug/l #	1
55) 1,1,2-Trichloroethane	8.07	97	309	0.251	ug/l #	65
60) Dibromochloromethane	8.22	129	811	0.674	ug/l #	10
64) Tetrachloroethene	8.23	164	847	0.856	ug/l	97
76) 1,2,3-Trichloropropane	10.30	75	37898	25.050	ug/l #	35
81) trans-1,4-Dichloro-2-buten	10.30	75	37898	61.468	ug/l #	100

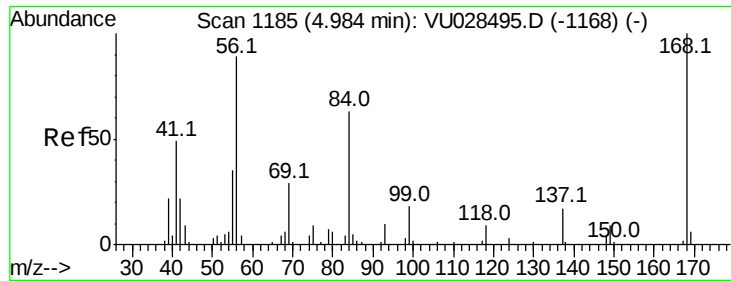
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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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: VU028558.D

Acq: 10 Dec 2018 17:59

Instrument :

MSVOA_U

ClientSampleId :

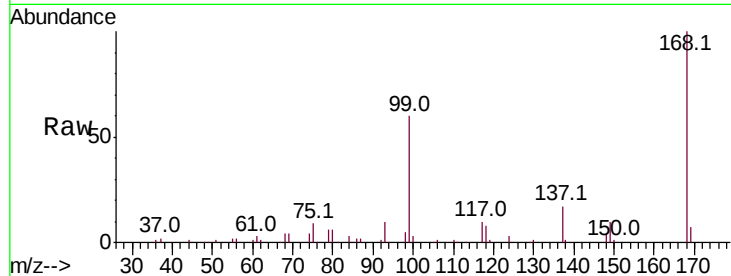
RE-126D2-20181207

Tot Ion:168 Resp: 86111

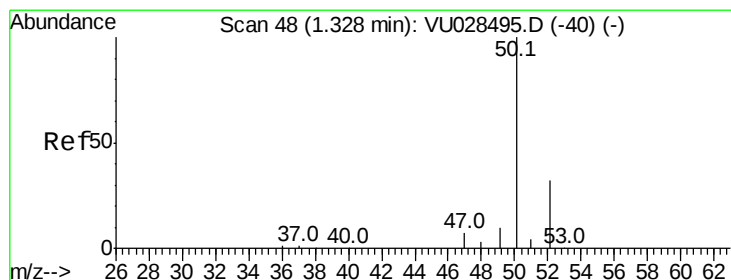
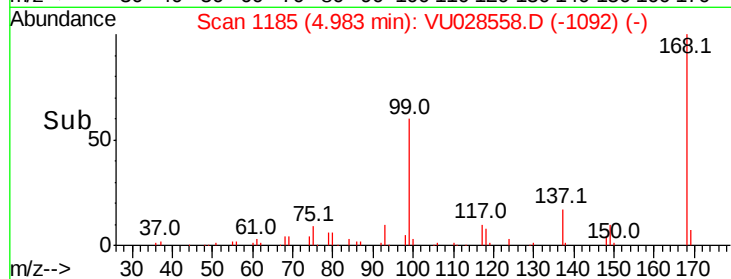
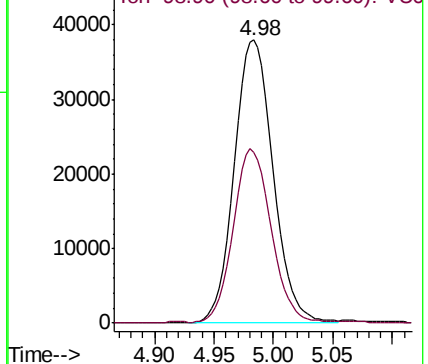
Ion Ratio Lower Upper

168 100

99 59.9 46.6 69.8



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



#3

Chloromethane

Concen: 0.499 ug/l

RT: 1.33 min Scan# 48

Delta R.T. -0.00 min

Lab File: VU028558.D

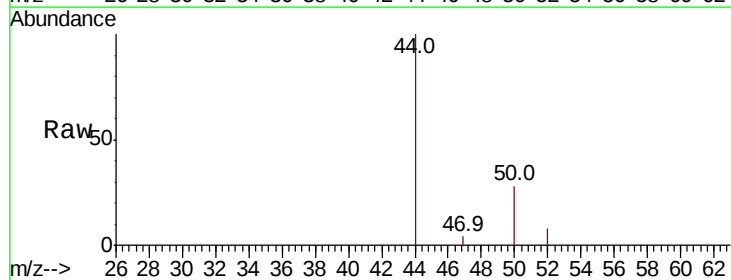
Acq: 10 Dec 2018 17:59

Tgt Ion: 50 Resp: 1059

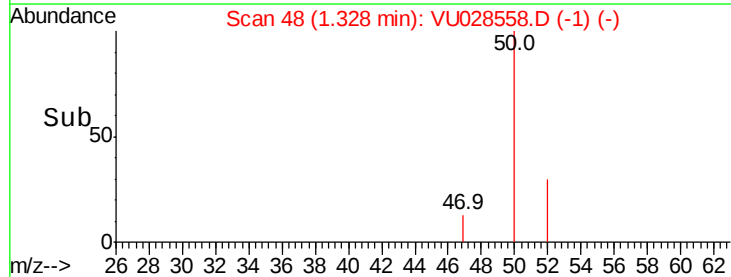
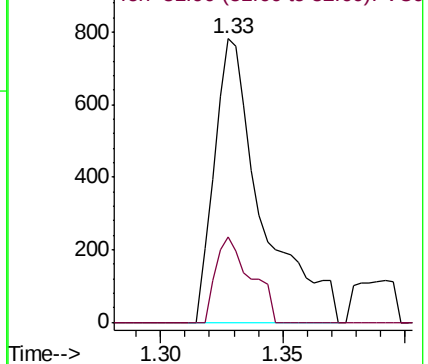
Ion Ratio Lower Upper

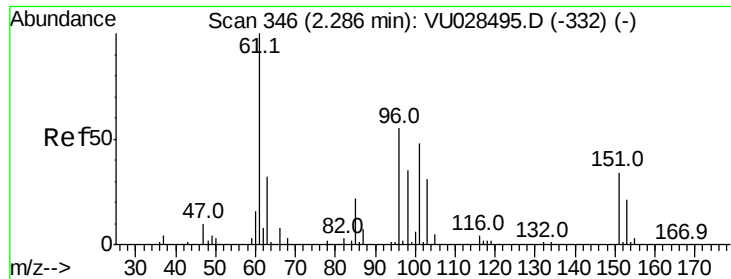
50 100

52 30.2 25.5 38.3



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





#9

1,1,2-Trichlorotrifluoroethane

Concen: 0.598 ug/l

RT: 2.29 min Scan# 346

Delta R.T. -0.00 min

Lab File: VU028558.D

Acq: 10 Dec 2018 17:59

Instrument :

MSVOA_U

ClientSampleId :

RE-126D2-20181207

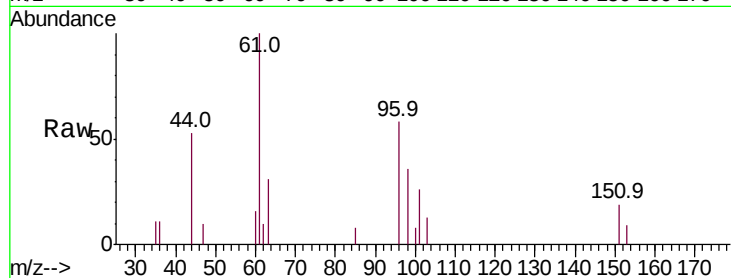
Tot Ion:101 Resp: 576

Ion Ratio Lower Upper

101 100

85 20.8 36.4 54.6#

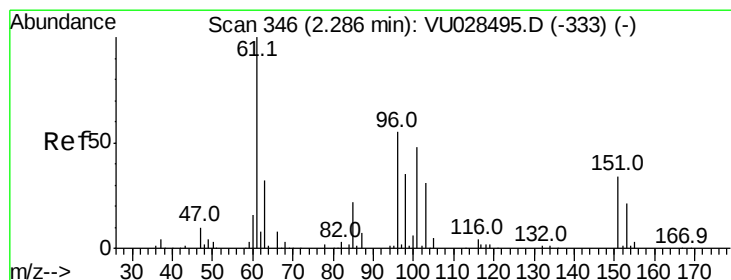
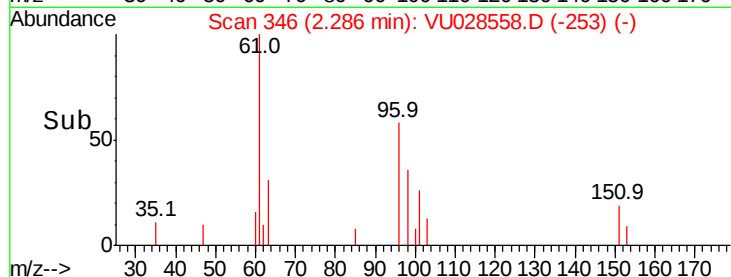
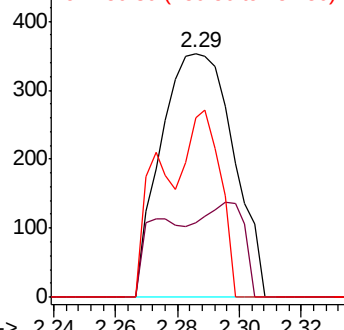
151 36.5 58.2 87.2#



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



#12

1,1-Dichloroethene

Concen: 1.264 ug/l

RT: 2.28 min Scan# 345

Delta R.T. -0.00 min

Lab File: VU028558.D

Acq: 10 Dec 2018 17:59

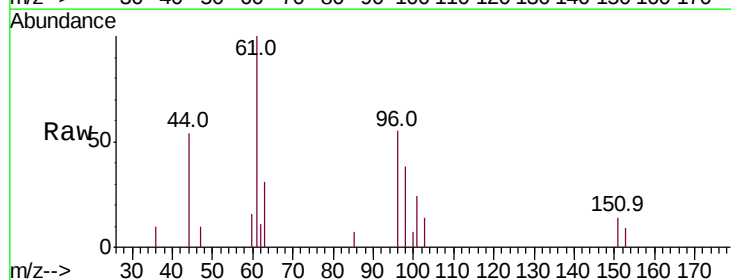
Tgt Ion: 96 Resp: 1212

Ion Ratio Lower Upper

96 100

61 183.2 146.4 219.6

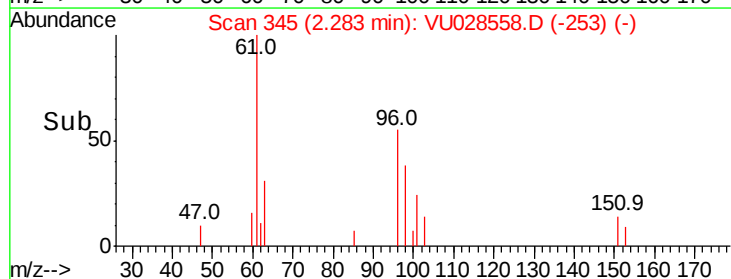
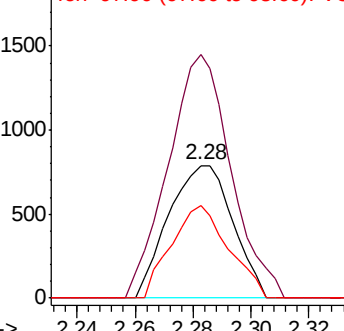
98 69.8 51.8 77.8

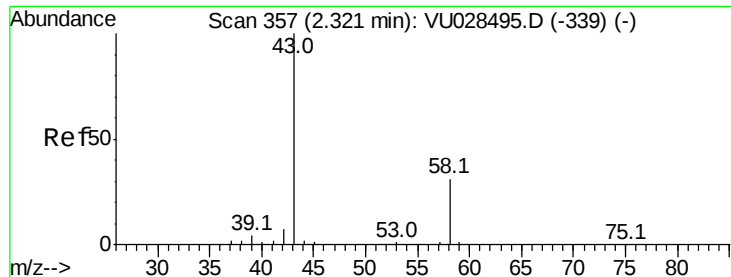


Abundance Ion 95.90 (95.60 to 96.60): VU0

Ion 60.90 (60.60 to 61.60): VU0

Ion 97.90 (97.60 to 98.60): VU0





#16

Acetone

Concen: 0.556 ug/l

RT: 2.32 min Scan# 357

Delta R.T. -0.00 min

Lab File: VU028558.D

Acq: 10 Dec 2018 17:59

Instrument :

MSVOA_U

ClientSampleId :

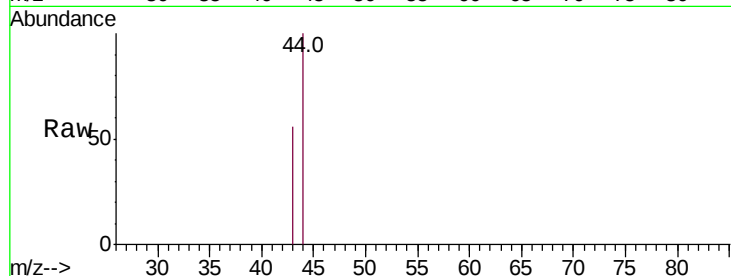
RE-126D2-20181207

Tot Ion: 43 Resp: 477

Ion Ratio Lower Upper

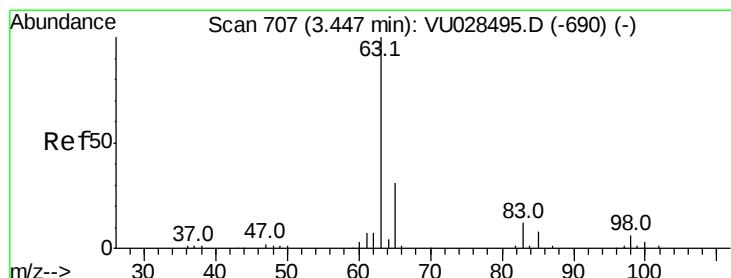
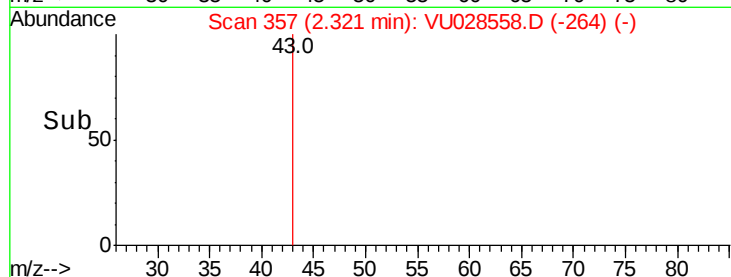
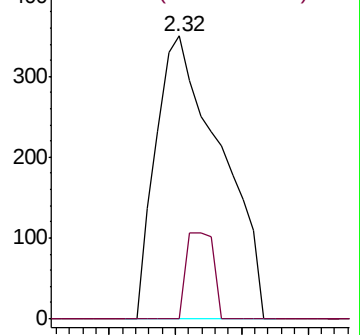
43 100

58 0.0 24.6 37.0#



Abundance Ion 43.00 (42.70 to 43.70): VU0

Ion 58.00 (57.70 to 58.70): VU0



#24

1,1-Dichloroethane

Concen: 1.325 ug/l

RT: 3.45 min Scan# 707

Delta R.T. -0.00 min

Lab File: VU028558.D

Acq: 10 Dec 2018 17:59

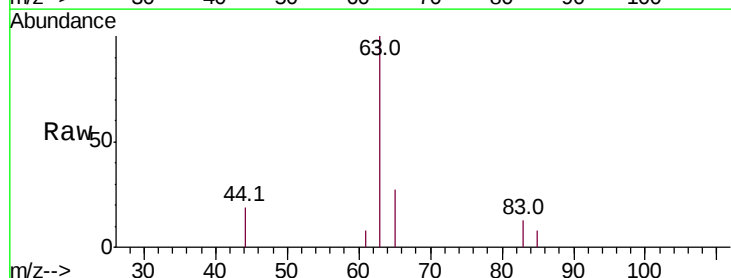
Tgt Ion: 63 Resp: 3060

Ion Ratio Lower Upper

63 100

98 0.0 3.0 9.2#

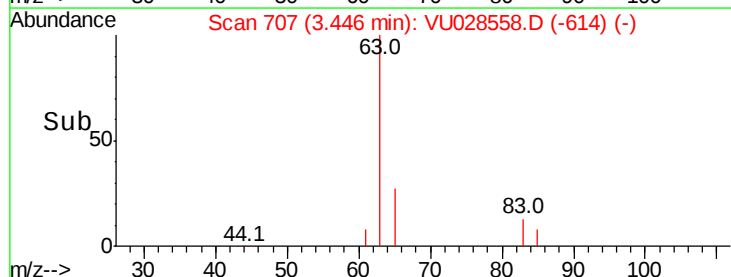
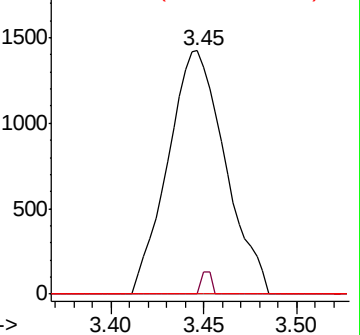
100 0.0 1.7 5.1#

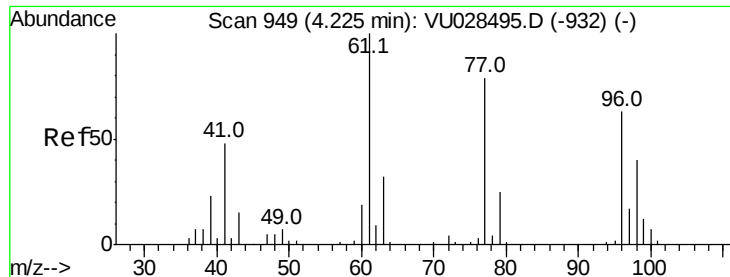


Abundance Ion 62.90 (62.60 to 63.60): VU0

Ion 97.90 (97.60 to 98.60): VU0

Ion 99.90 (99.60 to 100.60): VU0



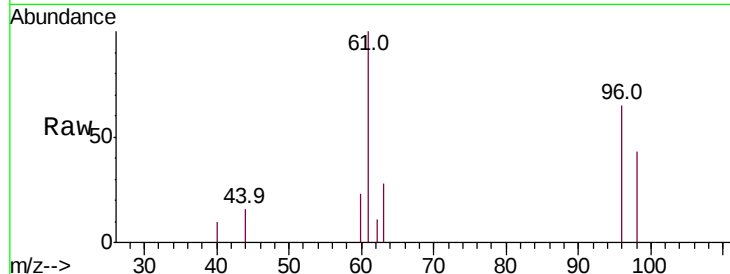


#27

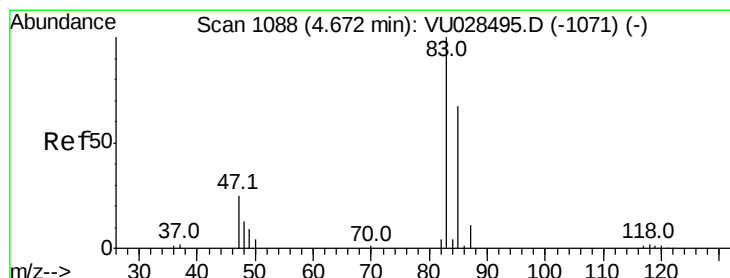
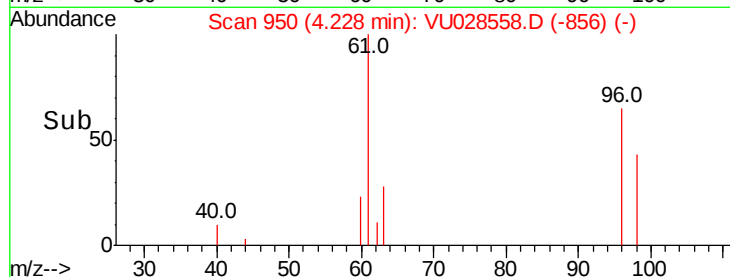
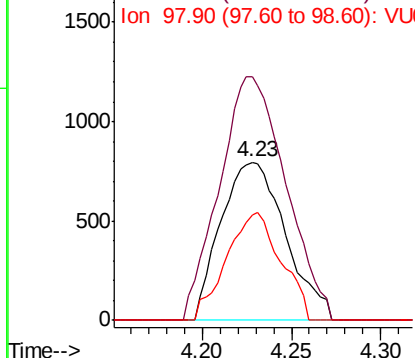
cis-1,2-Dichloroethene
 Concen: 1.645 ug/l
 RT: 4.23 min Scan# 950
 Delta R.T. 0.00 min
 Lab File: VU028558.D
 Acq: 10 Dec 2018 17:59

Instrument :
 MSVOA_U
 ClientSampleId :
 RE-126D2-20181207

Tot Ion: 96 Resp: 2010
 Ion Ratio Lower Upper
 96 100
 61 158.0 0.0 332.4
 98 57.3 0.0 129.0



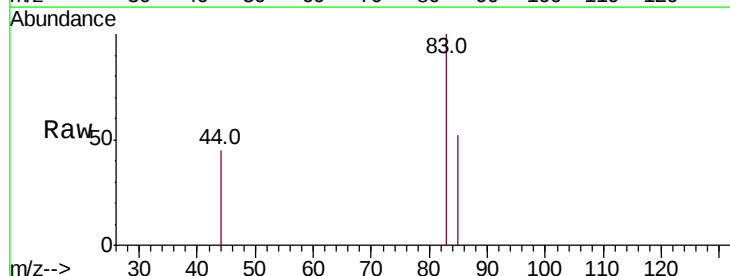
Abundance Ion 95.90 (95.60 to 96.60): VU0
 Ion 60.90 (60.60 to 61.60): VU0
 Ion 97.90 (97.60 to 98.60): VU0



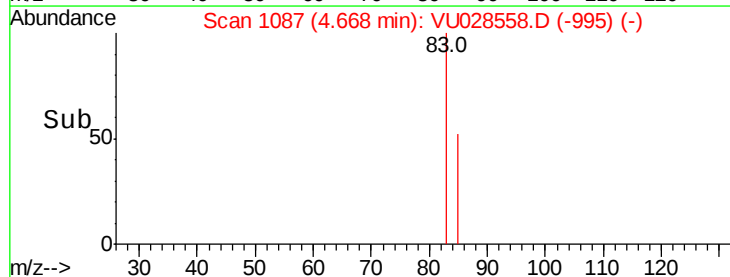
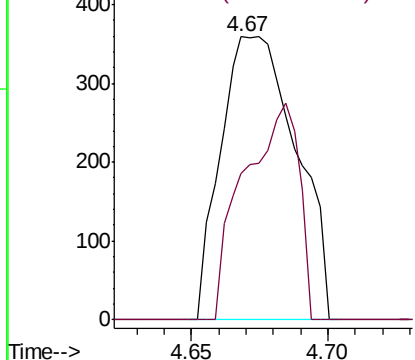
#30

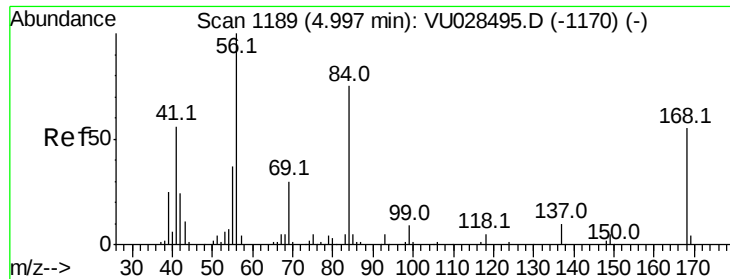
Chloroform
 Concen: 0.344 ug/l
 RT: 4.67 min Scan# 1087
 Delta R.T. -0.00 min
 Lab File: VU028558.D
 Acq: 10 Dec 2018 17:59

Tgt Ion: 83 Resp: 692
 Ion Ratio Lower Upper
 83 100
 85 51.8 53.6 80.4#



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

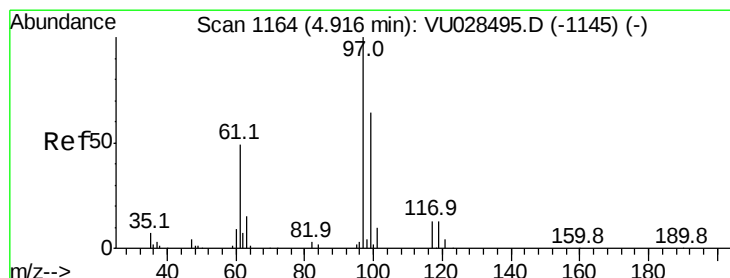
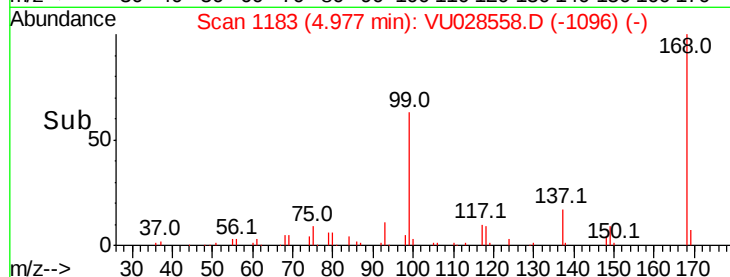
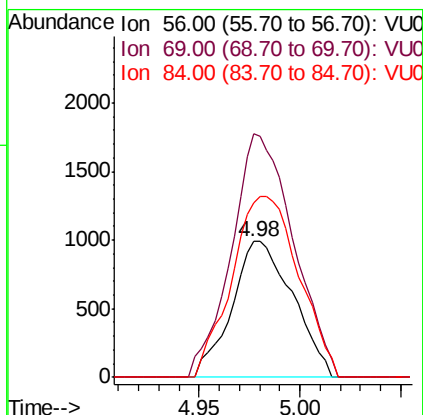
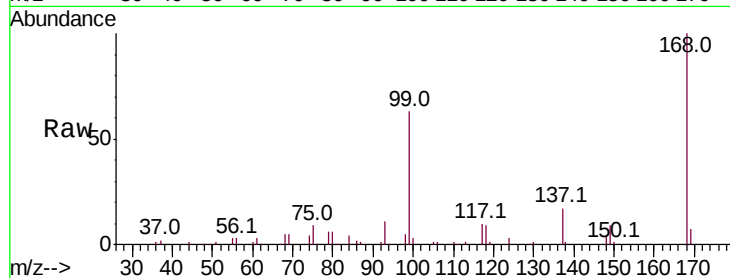




#31
Cyclohexane
Concen: Below Cal
RT: 4.98 min Scan# 1183
Delta R.T. -0.02 min
Lab File: VU028558.D
Acq: 10 Dec 2018 17:59

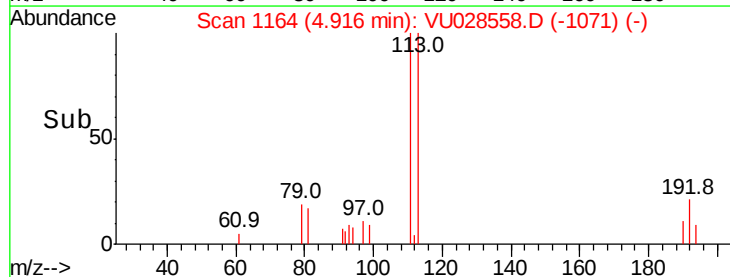
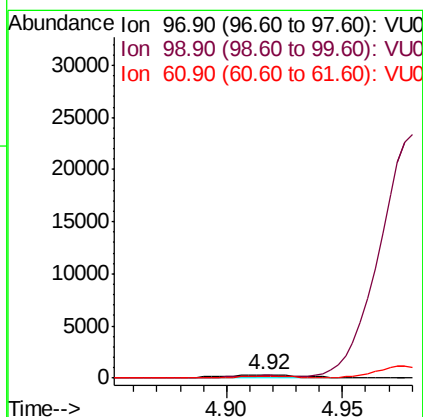
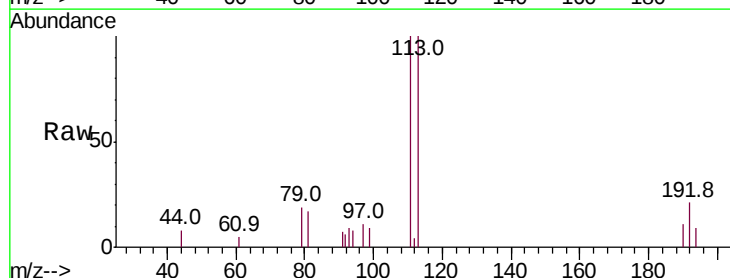
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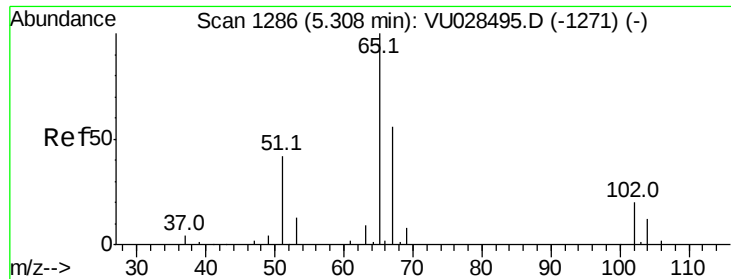
Tot Ion: 56 Resp: 2086
Ion Ratio Lower Upper
56 100
69 179.0 24.0 36.0#
84 128.3 59.7 89.5#



#32
1,1,1-Trichloroethane
Concen: 0.382 ug/l
RT: 4.92 min Scan# 1164
Delta R.T. -0.00 min
Lab File: VU028558.D
Acq: 10 Dec 2018 17:59

Tgt Ion: 97 Resp: 639
Ion Ratio Lower Upper
97 100
99 0.0 52.3 78.5#
61 30.4 39.0 58.6#

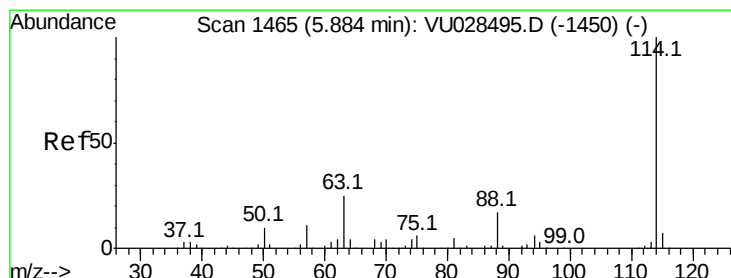
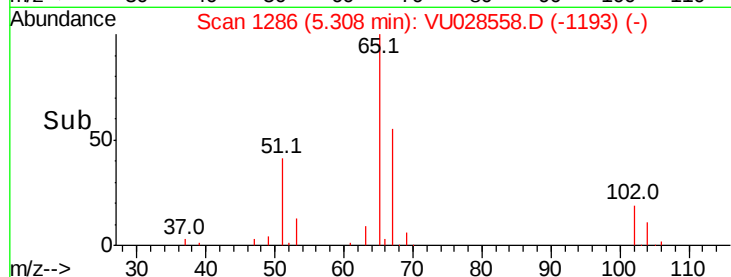
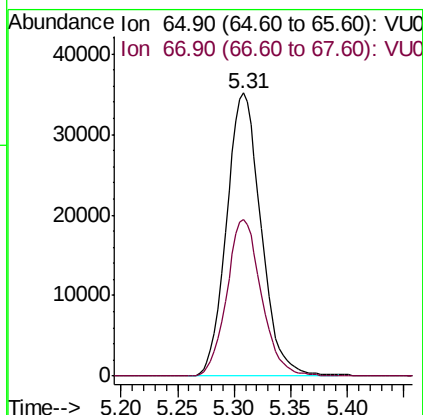
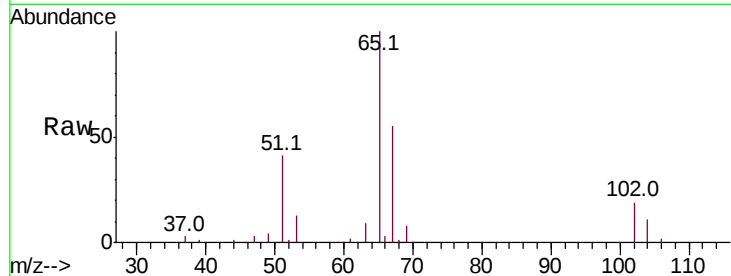




#33
 1,2-Dichloroethane-d4
 Concen: 56.657 ug/l
 RT: 5.31 min Scan# 1286
 Delta R.T. -0.00 min
 Lab File: VU028558.D
 Acq: 10 Dec 2018 17:59

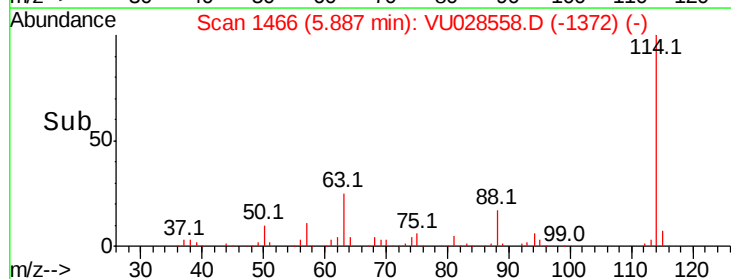
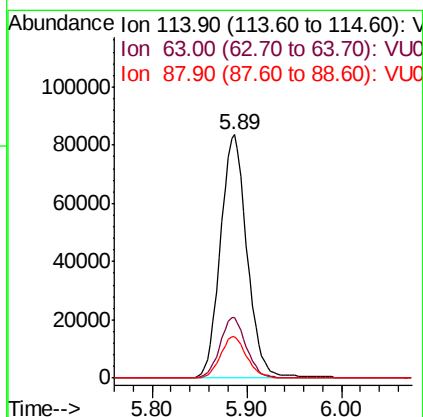
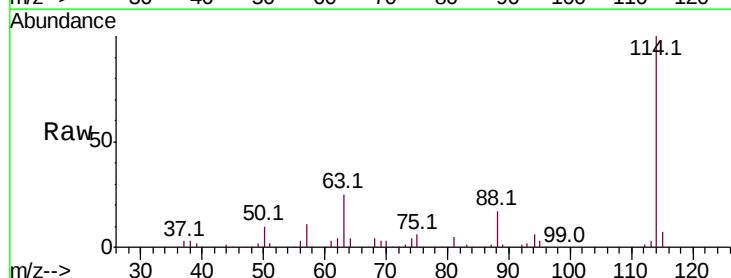
Instrument :
 MSVOA_U
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 RE-126D2-20181207

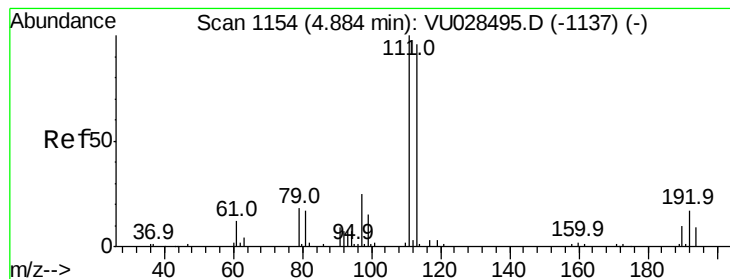
Tot Ion: 65 Resp: 74453
 Ion Ratio Lower Upper
 65 100
 67 55.5 0.0 110.6



#34
 1,4-Difluorobenzene
 Concen: 50.000 ug/l
 RT: 5.89 min Scan# 1466
 Delta R.T. 0.00 min
 Lab File: VU028558.D
 Acq: 10 Dec 2018 17:59

Tgt Ion: 114 Resp: 163974
 Ion Ratio Lower Upper
 114 100
 63 25.0 0.0 49.2
 88 16.9 0.0 33.4





#35

Dibromofluoromethane

Concen: 52.779 ug/l

RT: 4.88 min Scan# 1153

Delta R.T. -0.00 min

Lab File: VU028558.D

Acq: 10 Dec 2018 17:59

Instrument :

MSVOA_U

ClientSampleId :

RE-126D2-20181207

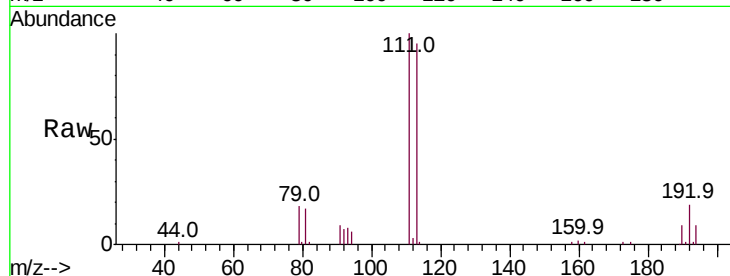
Tot Ion:113 Resp: 54463

Ion Ratio Lower Upper

113 100

111 103.3 83.4 125.0

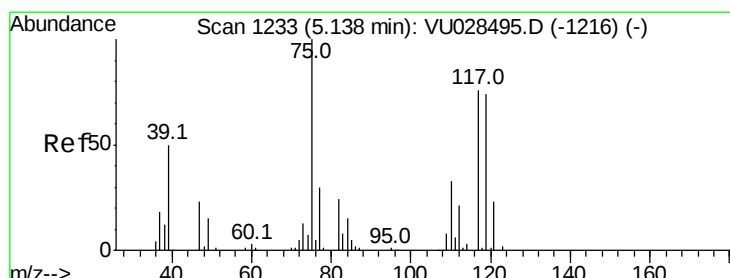
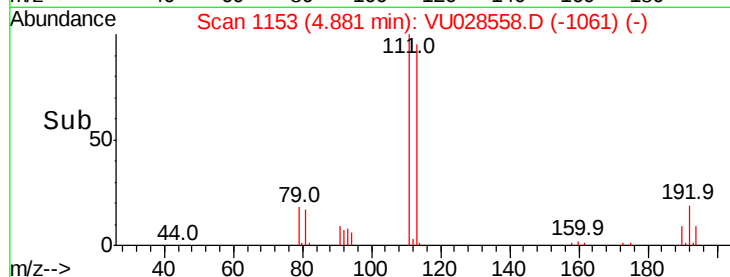
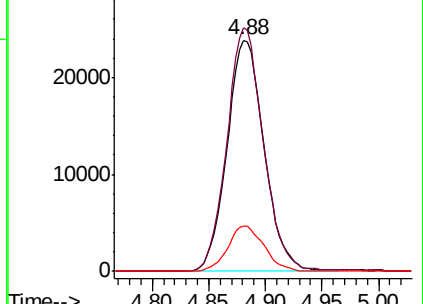
192 18.9 14.8 22.2



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: 4.279 ug/l

RT: 4.98 min Scan# 1184

Delta R.T. -0.16 min

Lab File: VU028558.D

Acq: 10 Dec 2018 17:59

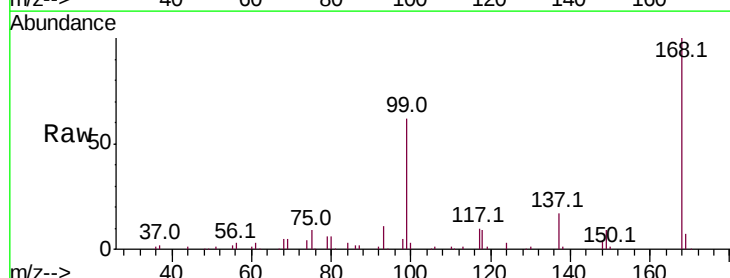
Tgt Ion: 75 Resp: 7678

Ion Ratio Lower Upper

75 100

110 7.7 16.1 48.2#

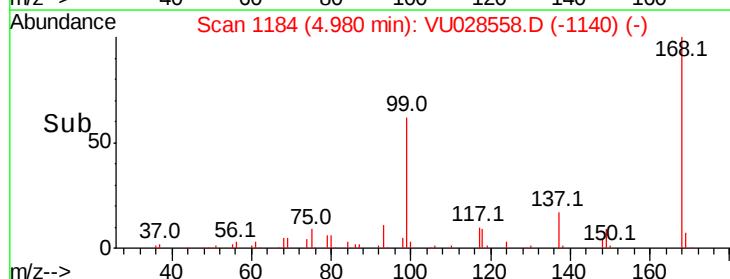
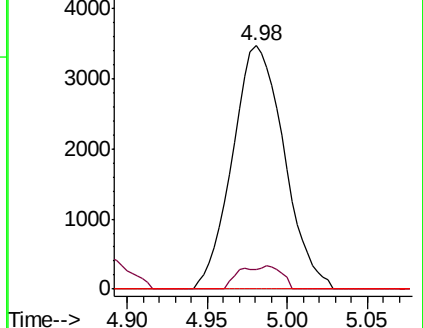
77 0.0 24.5 36.7#

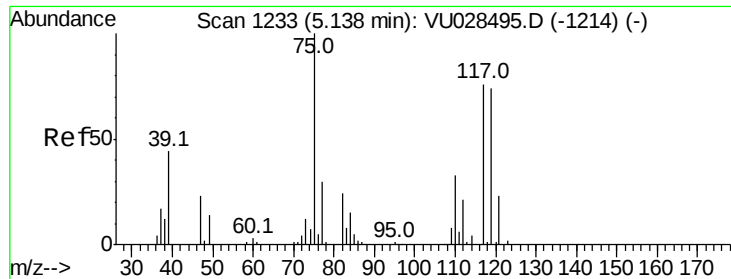


Abundance Ion 74.90 (74.60 to 75.60): VU0

Ion 109.90 (109.60 to 110.60): V

Ion 76.90 (76.60 to 77.60): VU0





#38

Carbon Tetrachloride

Concen: 0.600 ug/l

RT: 5.14 min Scan# 1233

Delta R.T. -0.00 min

Lab File: VU028558.D

Acq: 10 Dec 2018 17:59

Instrument :

MSVOA_U

ClientSampleId :

RE-126D2-20181207

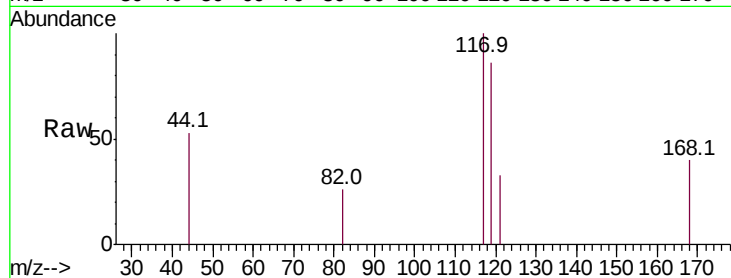
Tot Ion:117 Resp: 868

Ion Ratio Lower Upper

117 100

119 85.7 77.6 116.4

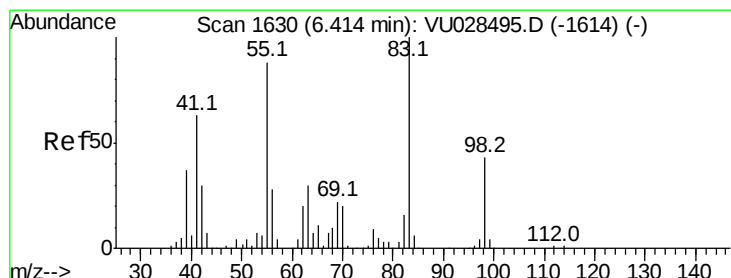
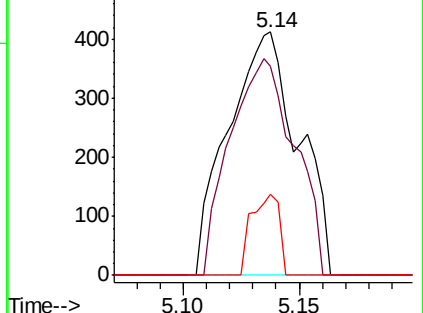
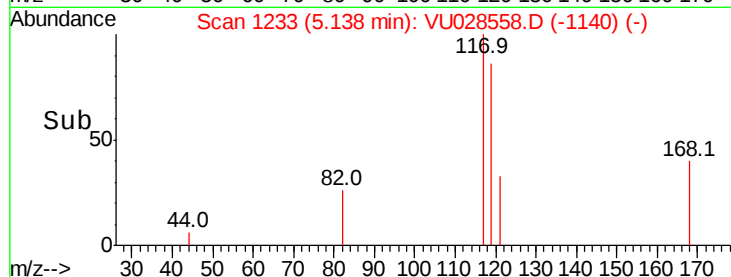
121 33.5 24.6 36.8



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



#39

Methylcyclohexane

Concen: 3.748 ug/l

RT: 6.19 min Scan# 1559

Delta R.T. -0.23 min

Lab File: VU028558.D

Acq: 10 Dec 2018 17:59

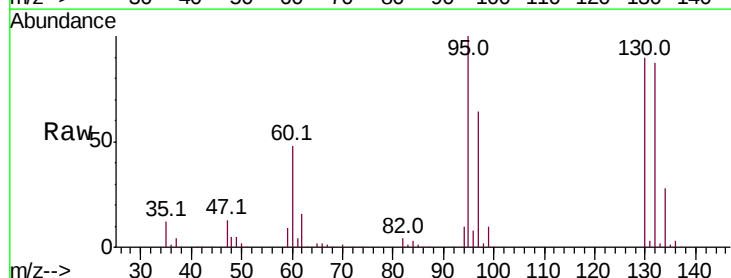
Tgt Ion: 83 Resp: 8205

Ion Ratio Lower Upper

83 100

55 0.0 70.2 105.2#

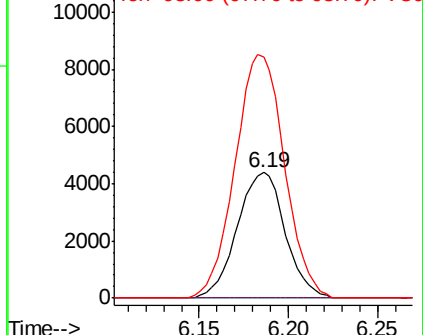
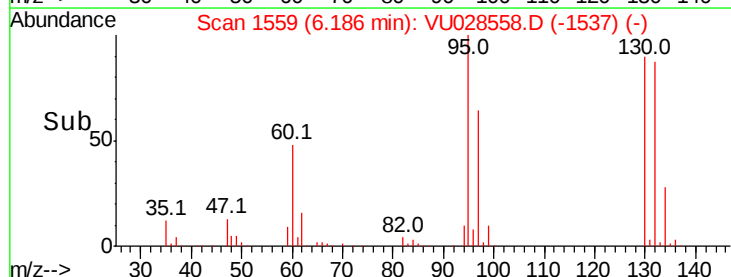
98 192.6 34.2 51.4#

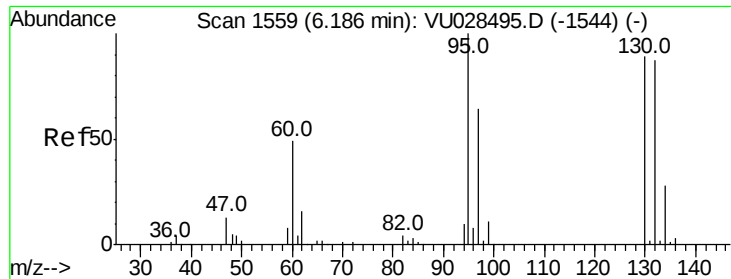


Abundance Ion 83.00 (82.70 to 83.70): VU0

Ion 55.00 (54.70 to 55.70): VU0

Ion 98.00 (97.70 to 98.70): VU0





#44

Trichloroethene

Concen: 515.233 ug/l

RT: 6.19 min Scan# 1559

Delta R.T. -0.00 min

Lab File: VU028558.D

Acq: 10 Dec 2018 17:59

Instrument :

MSVOA_U

ClientSampleId :

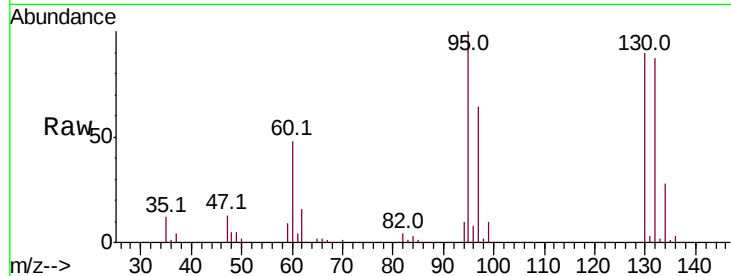
RE-126D2-20181207

Tot Ion:130 Resp: 605427

Ion Ratio Lower Upper

130 100

95 110.7 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) (-)

6.19

400000

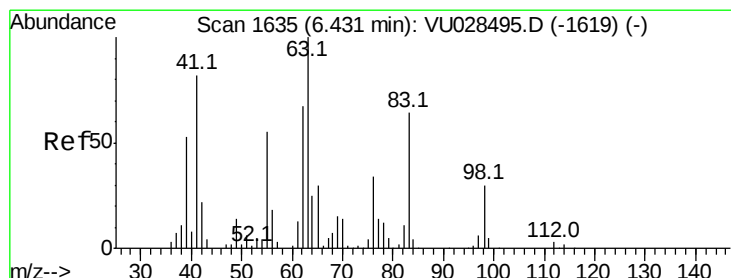
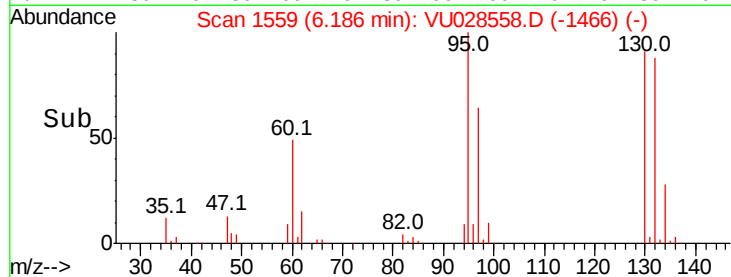
300000

200000

100000

0

Time-->



#45

1,2-Dichloropropane

Concen: 1.517 ug/l

RT: 6.18 min Scan# 1558

Delta R.T. -0.25 min

Lab File: VU028558.D

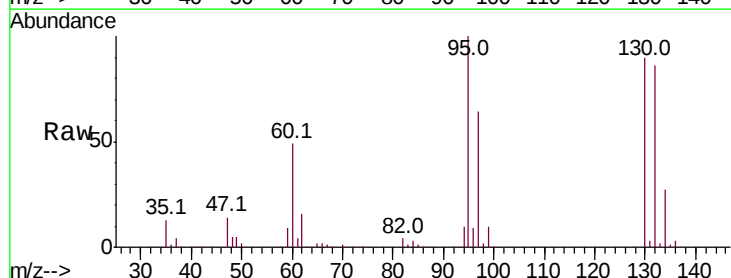
Acq: 10 Dec 2018 17:59

Tgt Ion: 63 Resp: 2254

Ion Ratio Lower Upper

63 100

65 562.4 24.2 36.4#



Abundance Ion 62.90 (62.60 to 63.60): VU028495.D (-1619) (-)

Ion 64.90 (64.60 to 65.60): VU028495.D (-1619) (-)

8000

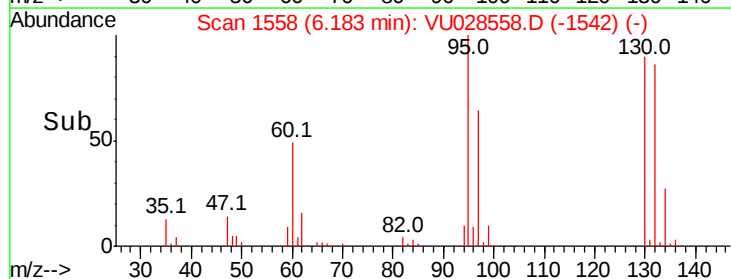
6000

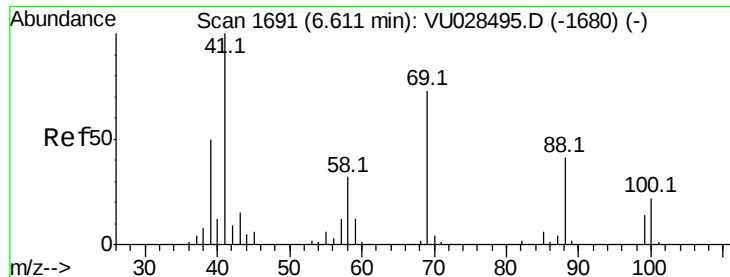
4000

2000

0

Time-->





#49

1,4-Dioxane

Concen: 7.324 ug/l

RT: 6.62 min Scan# 1695

Delta R.T. 0.01 min

Lab File: VU028558.D

Acq: 10 Dec 2018 17:59

Instrument :

MSVOA_U

ClientSampleId :

RE-126D2-20181207

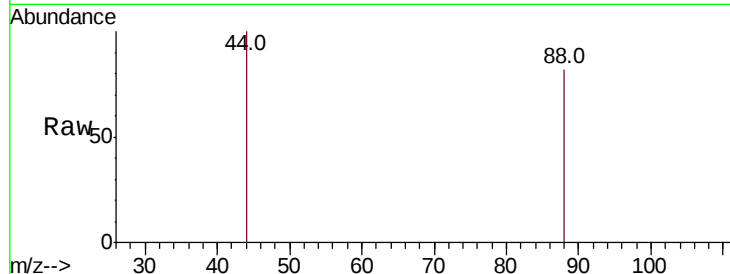
Tot Ion: 88 Resp: 211

Ion Ratio Lower Upper

88 100

43 0.0 30.9 46.3#

58 20.9 62.4 93.6#



Abundance Ion 88.00 (87.70 to 88.70): VU028558.D (-1598) (-)

Ion 43.00 (42.70 to 43.70): VU028558.D (-1598) (-)

Ion 58.00 (57.70 to 58.70): VU028558.D (-1598) (-)

6.62

250

200

150

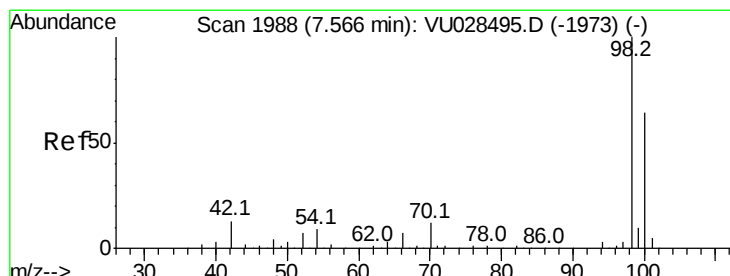
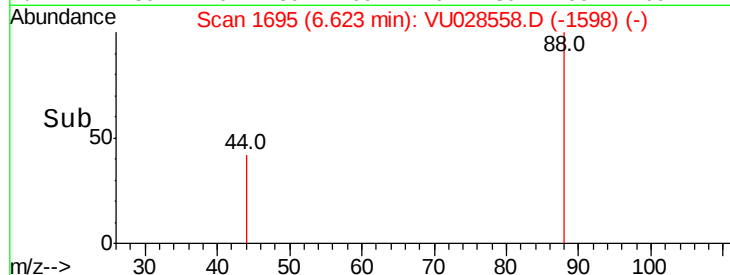
100

50

0

6.60 6.62 6.64

Time-->



#50

Toluene-d8

Concen: 52.184 ug/l

RT: 7.57 min Scan# 1988

Delta R.T. -0.00 min

Lab File: VU028558.D

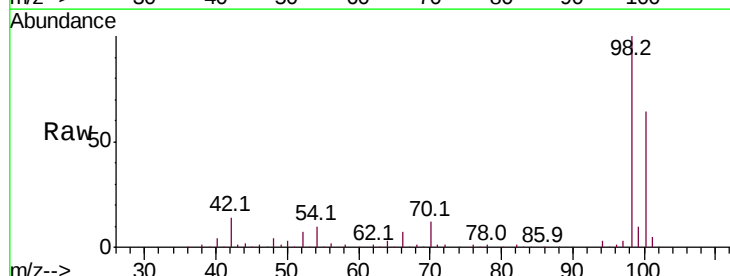
Acq: 10 Dec 2018 17:59

Tgt Ion: 98 Resp: 213015

Ion Ratio Lower Upper

98 100

100 63.0 51.0 76.6



Abundance Ion 98.00 (97.70 to 98.70): VU028558.D (-1895) (-)

Ion 100.00 (99.70 to 100.70): VU028558.D (-1895) (-)

7.57

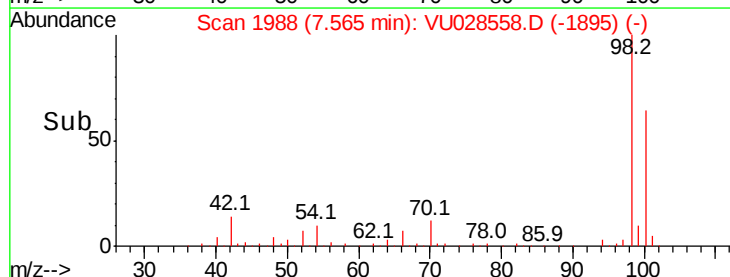
100000

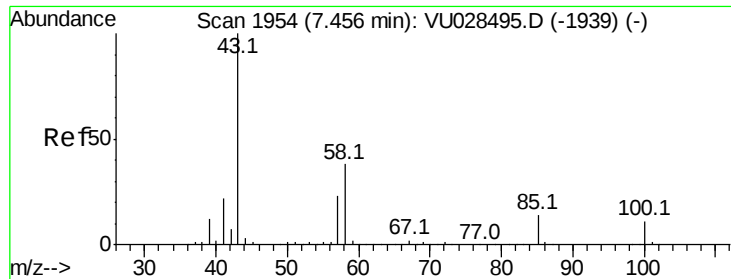
50000

0

7.50 7.57 7.70

Time-->





#51

4-Methyl-2-Pentanone

Concen: 0.465 ug/l

RT: 7.57 min Scan# 1988

Delta R.T. 0.11 min

Lab File: VU028558.D

Acq: 10 Dec 2018 17:59

Instrument :

MSVOA_U

ClientSampleId :

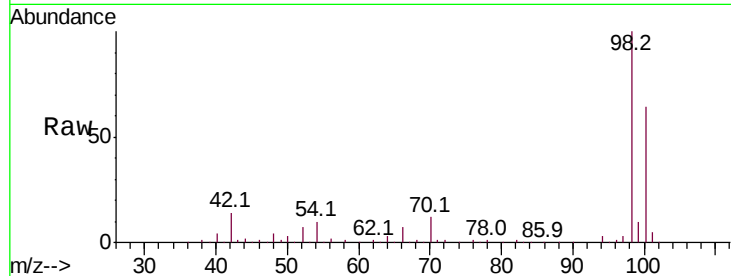
RE-126D2-20181207

Tot Ion: 43 Resp: 1076

Ion Ratio Lower Upper

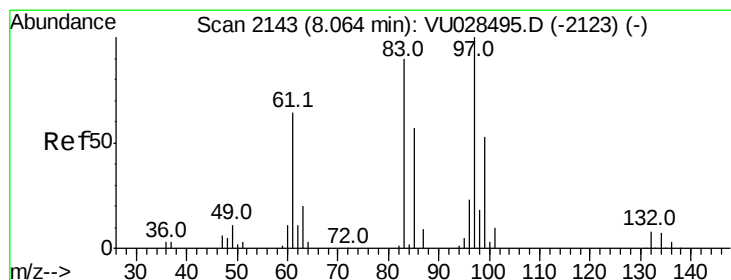
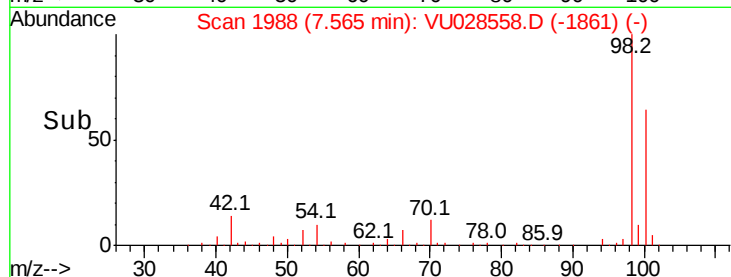
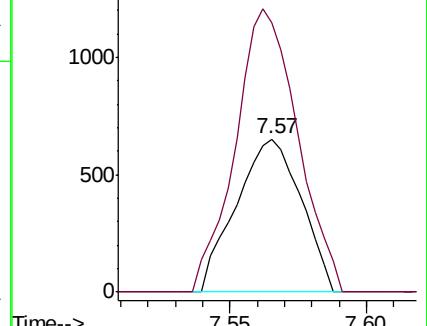
43 100

58 177.4 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: 0.251 ug/l

RT: 8.07 min Scan# 2144

Delta R.T. 0.00 min

Lab File: VU028558.D

Acq: 10 Dec 2018 17:59

Tgt Ion: 97 Resp: 309

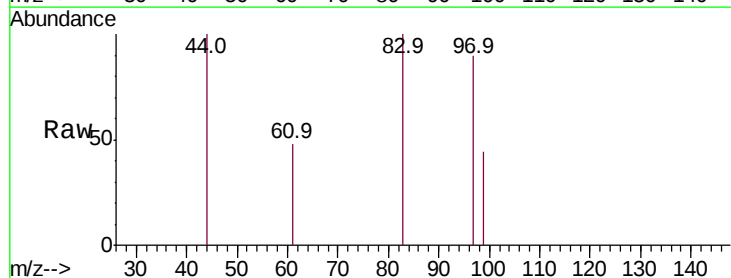
Ion Ratio Lower Upper

97 100

83 110.7 72.4 108.6#

85 0.0 46.0 69.0#

99 48.8 47.4 71.2

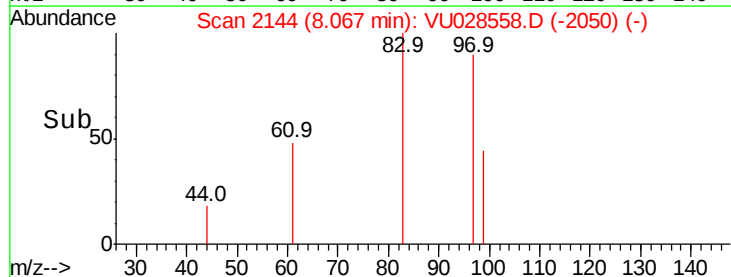
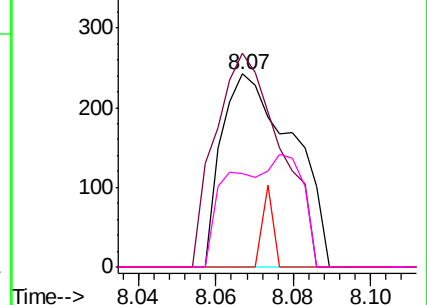


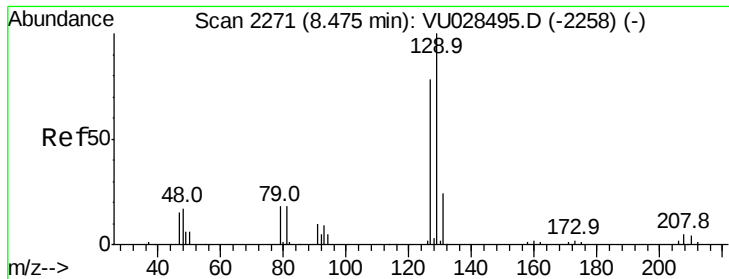
Abundance Ion 96.90 (96.60 to 97.60): VU028495.D (-2123) (-)

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) (-)

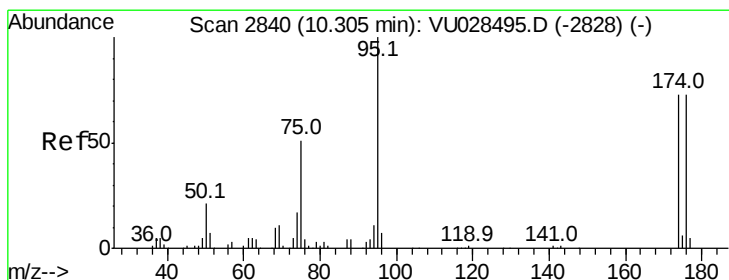
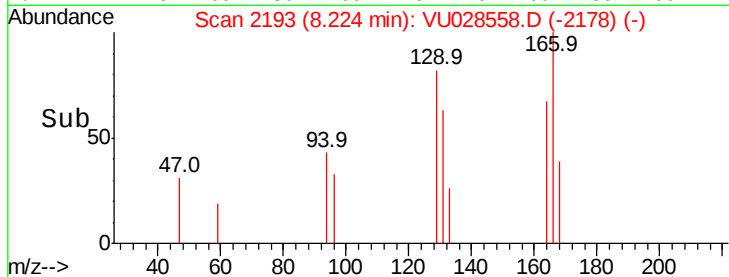
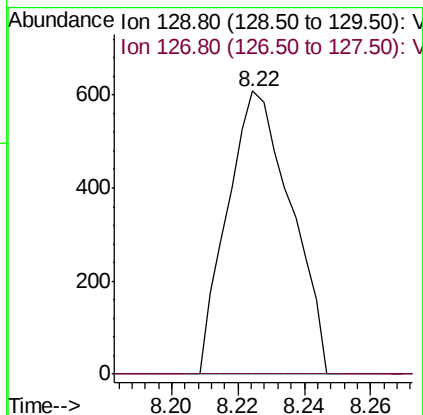
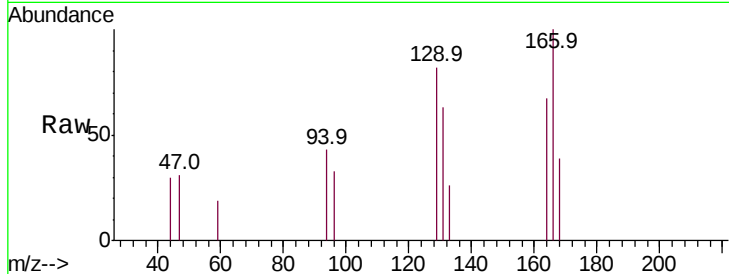




#60
Dibromochloromethane
Concen: 0.674 ug/l
RT: 8.22 min Scan# 2193
Delta R.T. -0.25 min
Lab File: VU028558.D
Acq: 10 Dec 2018 17:59

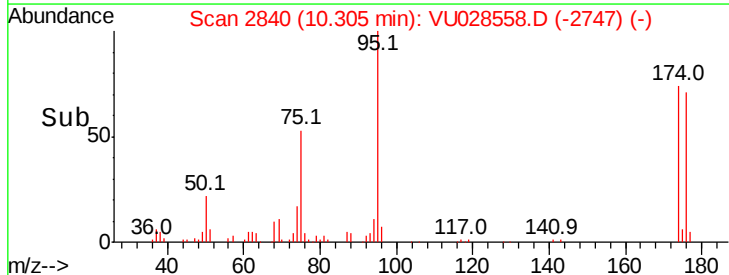
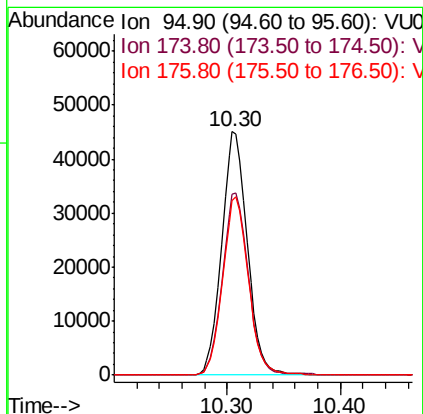
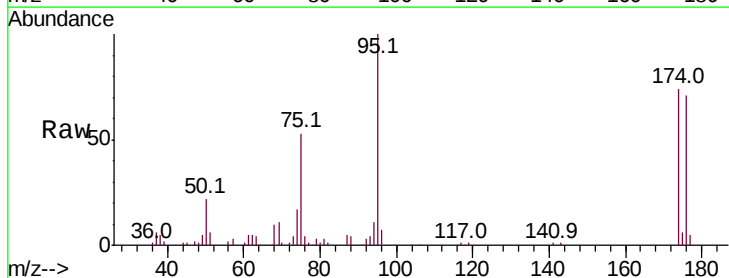
Instrument :
MSVOA_U
ClientSampleId :
RE-126D2-20181207

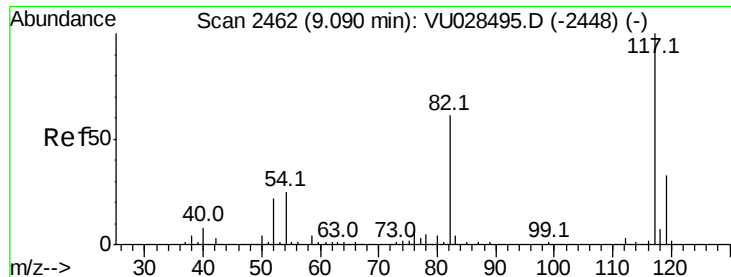
Tot Ion:129 Resp: 811
Ion Ratio Lower Upper
129 100
127 0.0 39.1 117.3#



#62
4-Bromofluorobenzene
Concen: 46.691 ug/l
RT: 10.30 min Scan# 2840
Delta R.T. -0.00 min
Lab File: VU028558.D
Acq: 10 Dec 2018 17:59

Tgt Ion: 95 Resp: 71237
Ion Ratio Lower Upper
95 100
174 75.7 0.0 150.4
176 73.4 0.0 145.2

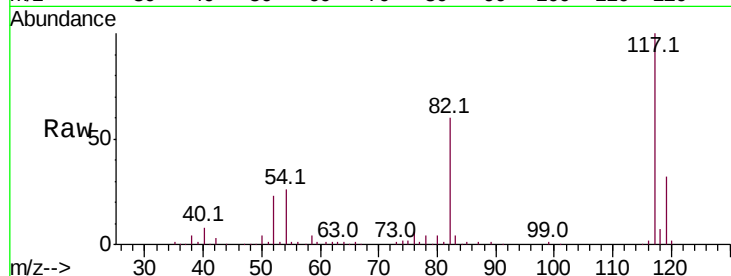




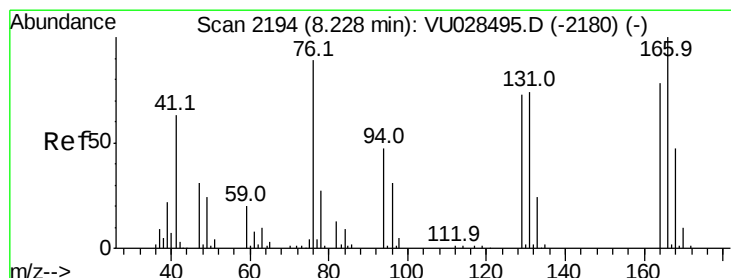
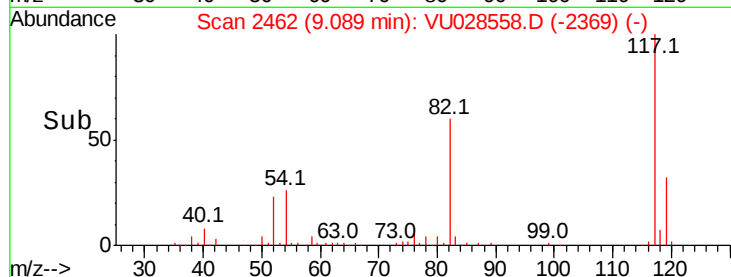
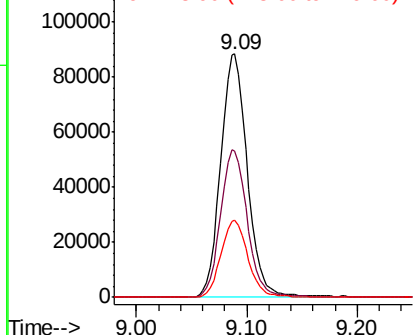
#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 9.09 min Scan# 2462
Delta R.T. -0.00 min
Lab File: VU028558.D
Acq: 10 Dec 2018 17:59

Instrument :
MSVOA_U
ClientSampleId :
RE-126D2-20181207

Tot Ion:117 Resp: 148352
Ion Ratio Lower Upper
117 100
82 60.3 48.9 73.3
119 31.7 26.2 39.4



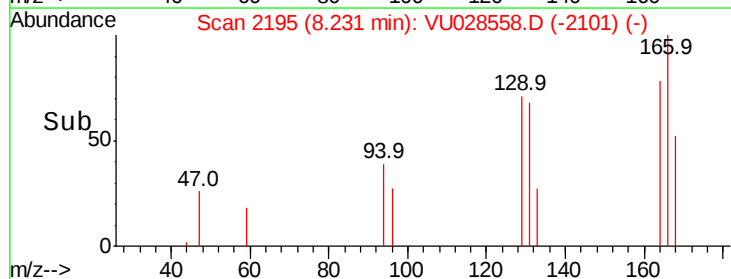
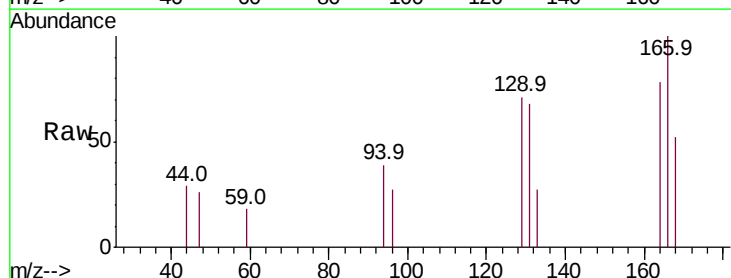
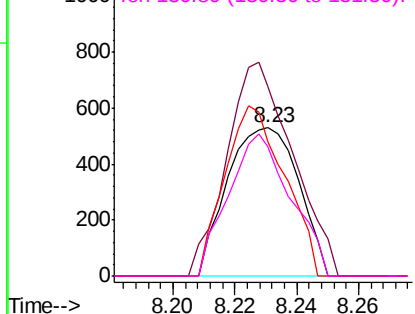
Abundance Ion 116.90 (116.60 to 117.60): V
Ion 82.00 (81.70 to 82.70): VU0
Ion 118.90 (118.60 to 119.60): V

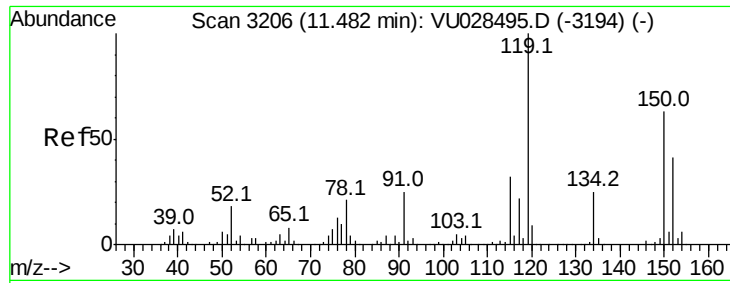


#64
Tetrachloroethene
Concen: 0.856 ug/l
RT: 8.23 min Scan# 2195
Delta R.T. 0.00 min
Lab File: VU028558.D
Acq: 10 Dec 2018 17:59

Tgt Ion:164 Resp: 847
Ion Ratio Lower Upper
164 100
166 128.0 101.9 152.9
129 90.9 74.9 112.3
131 87.1 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



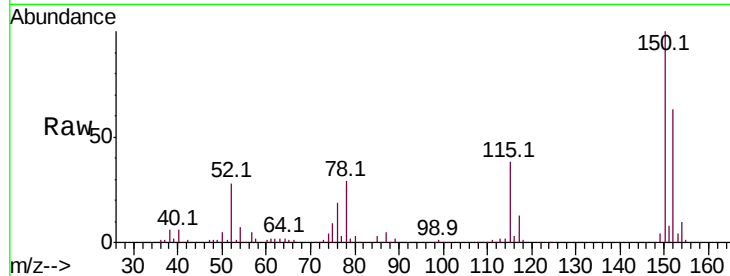


#72

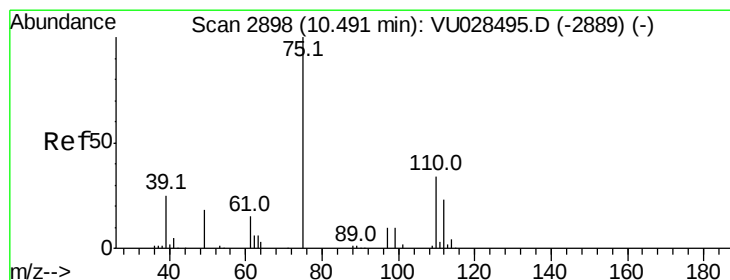
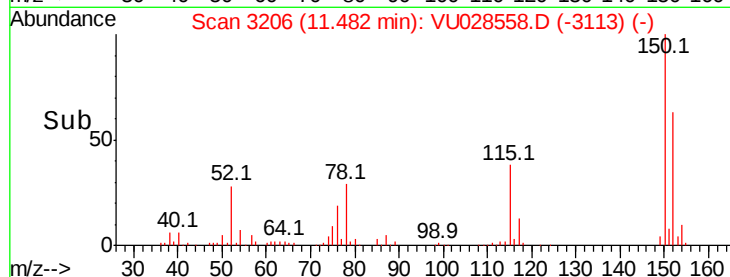
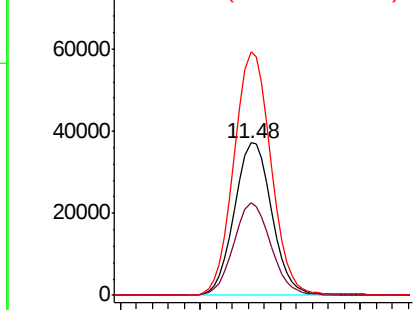
1,4-Dichlorobenzene-d4
 Concen: 50.000 ug/l
 RT: 11.48 min Scan# 3206
 Delta R.T. -0.00 min
 Lab File: VU028558.D
 Acq: 10 Dec 2018 17:59

Instrument :
 MSVOA_U
 ClientSampleId :
 RE-126D2-20181207

Tot Ion:152 Resp: 59248
 Ion Ratio Lower Upper
 152 100
 115 60.5 42.7 128.1
 150 157.9 0.0 346.0



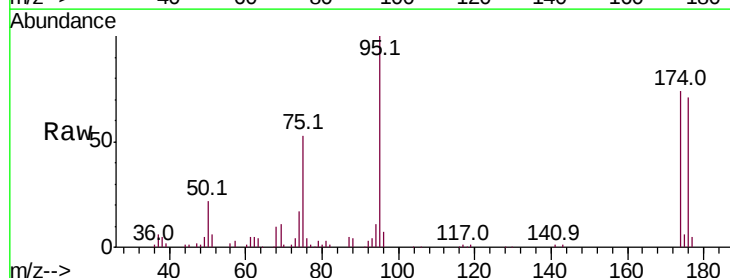
Abundance Ion 151.90 (151.60 to 152.60): V
 Ion 114.90 (114.60 to 115.60): V
 Ion 149.90 (149.60 to 150.60): V



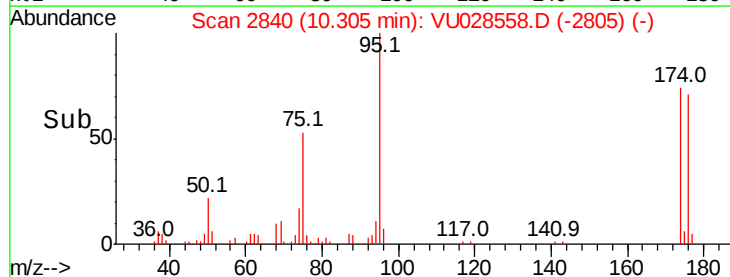
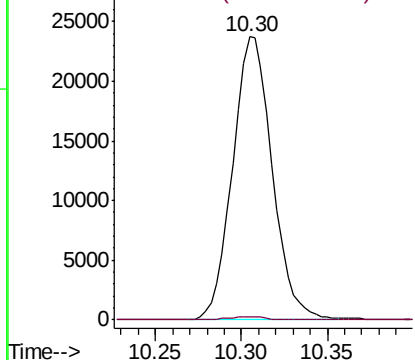
#76

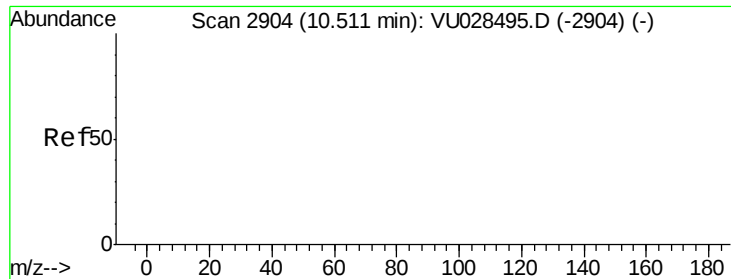
1,2,3-Trichloropropane
 Concen: 25.050 ug/l
 RT: 10.30 min Scan# 2840
 Delta R.T. -0.19 min
 Lab File: VU028558.D
 Acq: 10 Dec 2018 17:59

Tgt Ion: 75 Resp: 37898
 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: 61.468 ug/l

RT: 10.30 min Scan# 2840

Delta R.T. -0.21 min

Lab File: VU028558.D

Acq: 10 Dec 2018 17:59

Instrument :

MSVOA_U

ClientSampleId :

RE-126D2-20181207

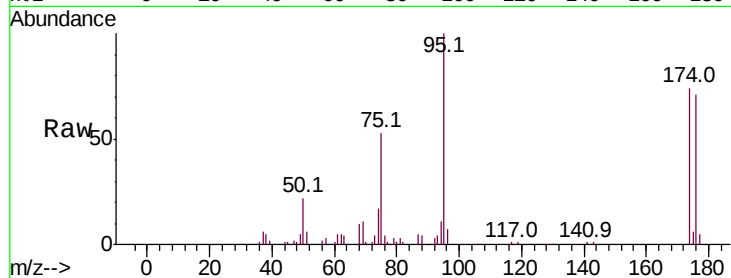
Tot Ion: 75 Resp: 37898

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

