

Data Path : Z:\VOASRV\HPCHEM1\MSVOA U\DATA\U121118\
 Data File : VU028565.D
 Acq On : 10 Dec 2018 20:48
 Operator : MD/SY
 Sample : J6325-07
 Misc : 5.0mL/MSVOA U/WATER
 ALS Vial : 20 Sample Multiplier: 1

Instrument :
 MSVOA_U
 ClientSampleId :
 RE-131D2-20181205

Quant Time: Dec 11 03:40:45 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

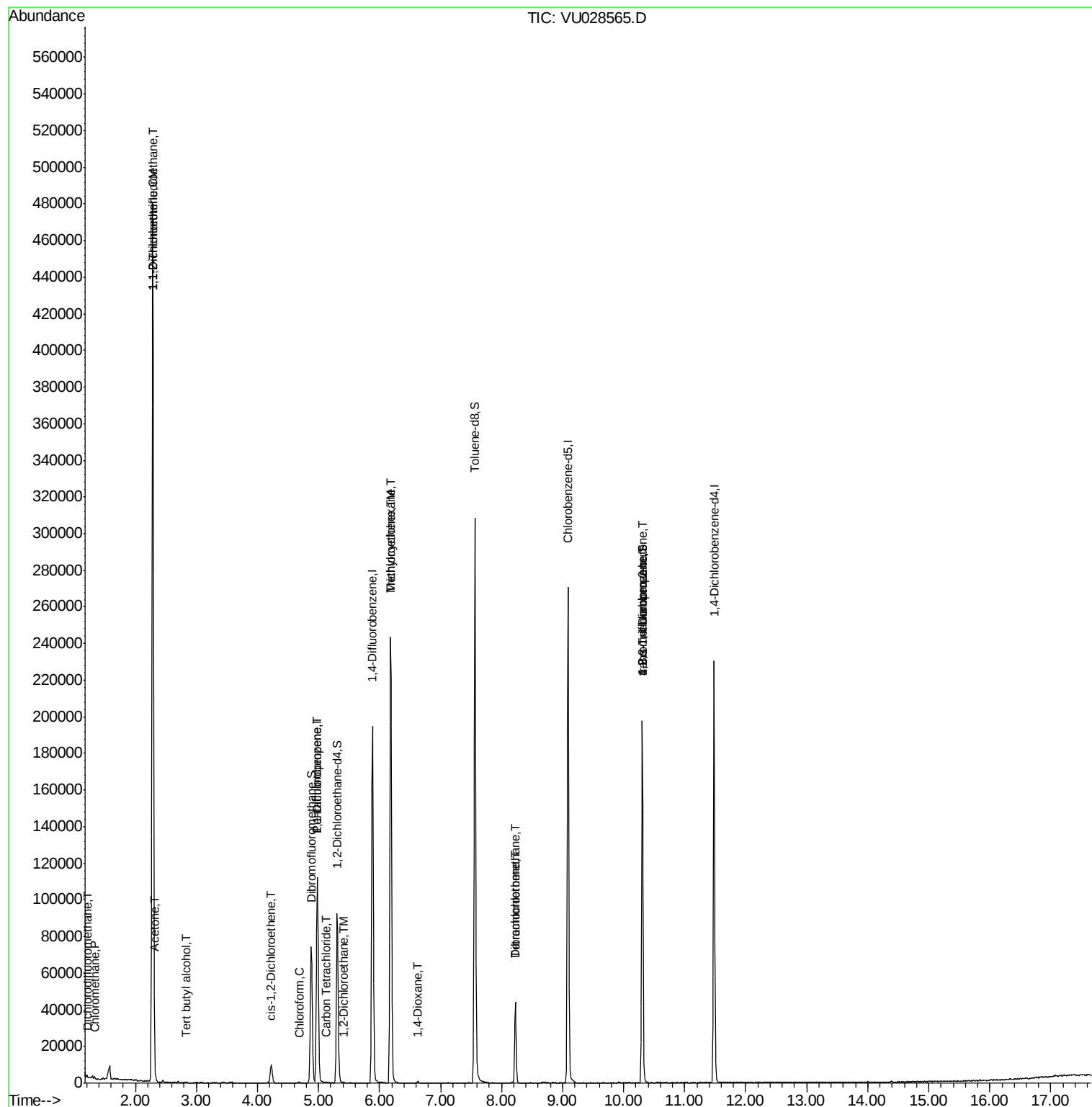
Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	4.98	168	83695	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	5.88	114	154597	50.00	ug/l	0.00
63) Chlorobenzene-d5	9.09	117	140093	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	11.48	152	54742	50.00	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	5.31	65	70976	55.57	ug/l	0.00
Spiked Amount 50.000			Recovery	=	111.14%	
35) Dibromofluoromethane	4.88	113	52125	53.58	ug/l	0.00
Spiked Amount 50.000			Recovery	=	107.16%	
50) Toluene-d8	7.57	98	204210	53.06	ug/l	0.00
Spiked Amount 50.000			Recovery	=	106.12%	
62) 4-Bromofluorobenzene	10.30	95	66527	46.25	ug/l	0.00
Spiked Amount 50.000			Recovery	=	92.50%	
Target Compounds						
					Qvalue	
2) Dichlorodifluoromethane	1.21	85	238	0.212	ug/l	86
3) Chloromethane	1.33	50	1019	0.494	ug/l	97
9) 1,1,2-Trichlorotrifluoroet	2.29	101	186769	199.423	ug/l	98
11) Tert butyl alcohol	2.83	59	200	0.703	ug/l #	73
12) 1,1-Dichloroethene	2.28	96	1740	1.867	ug/l	88
16) Acetone	2.32	43	937	1.124	ug/l	96
27) cis-1,2-Dichloroethene	4.23	96	5296	4.460	ug/l	90
30) Chloroform	4.67	83	496	0.254	ug/l	93
31) Cyclohexane	4.98	56	1960	Below Cal	#	1
36) 1,1-Dichloropropene	4.98	75	7520	4.445	ug/l #	49
38) Carbon Tetrachloride	5.13	117	342	0.251	ug/l #	48
39) Methylcyclohexane	6.18	83	923	0.447	ug/l #	1
42) 1,2-Dichloroethane	5.41	62	444	0.255	ug/l #	76
44) Trichloroethene	6.19	130	77307	69.781	ug/l	99
49) 1,4-Dioxane	6.62	88	499	18.372	ug/l #	86
60) Dibromochloromethane	8.22	129	9200	8.107	ug/l #	10
64) Tetrachloroethene	8.23	164	9629	10.304	ug/l	98
76) 1,2,3-Trichloropropane	10.31	75	35269	25.231	ug/l #	36
81) trans-1,4-Dichloro-2-buten	10.31	75	35269	61.909	ug/l #	100

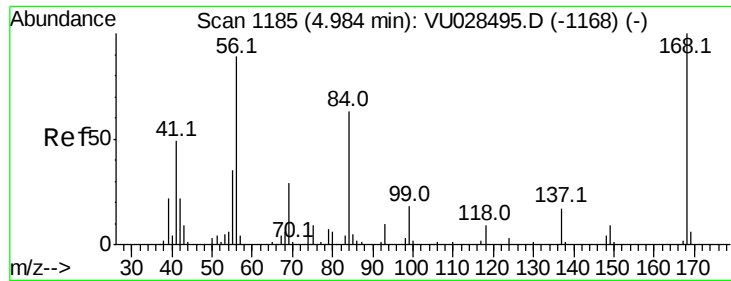
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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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: VU028565.D

Acq: 10 Dec 2018 20:48

Instrument :

MSVOA_U

ClientSampleId :

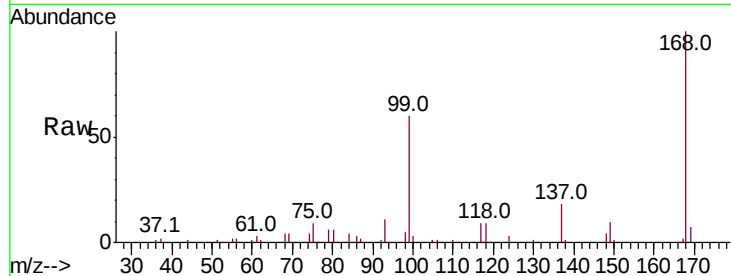
RE-131D2-20181205

Tot Ion:168 Resp: 83695

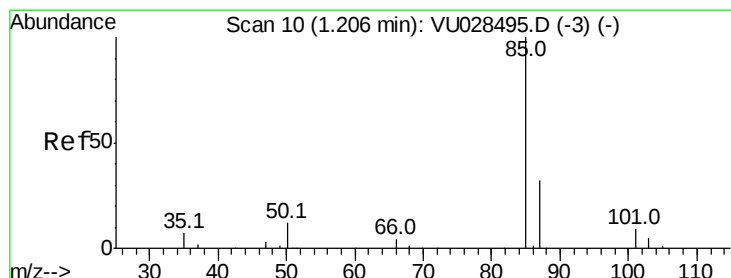
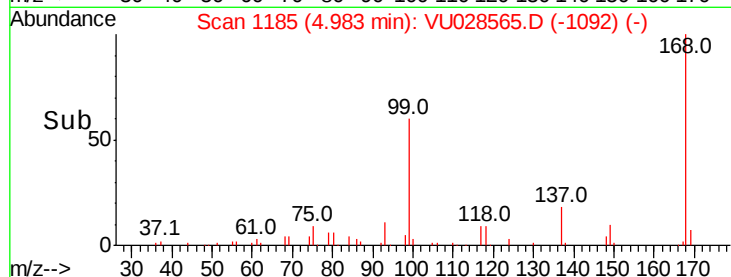
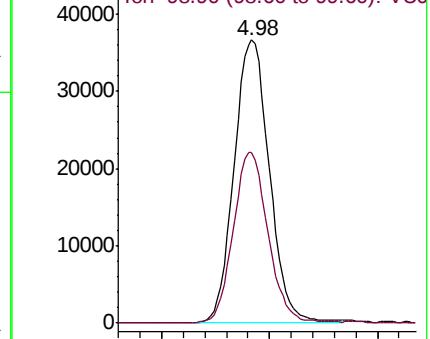
Ion Ratio Lower Upper

168 100

99 60.2 46.6 69.8



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



#2

Dichlorodifluoromethane

Concen: 0.212 ug/l

RT: 1.21 min Scan# 10

Delta R.T. -0.00 min

Lab File: VU028565.D

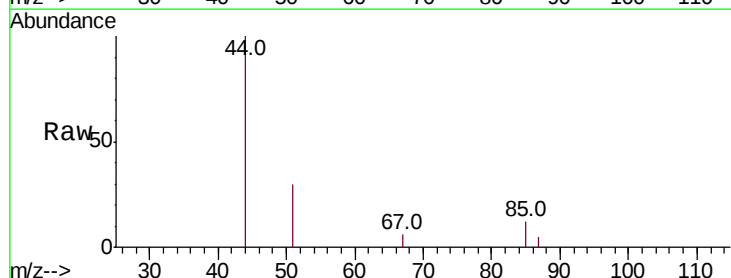
Acq: 10 Dec 2018 20:48

Tgt Ion: 85 Resp: 238

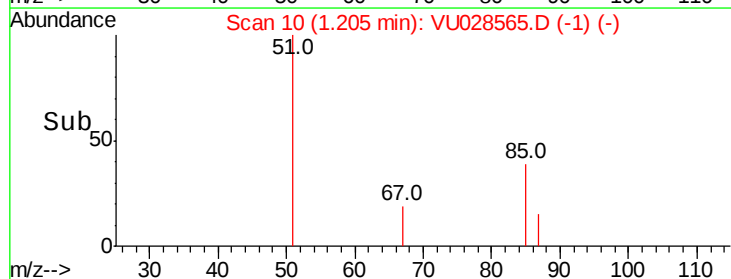
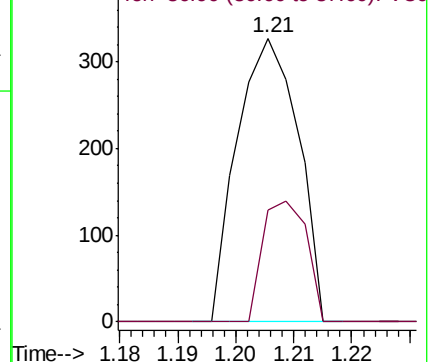
Ion Ratio Lower Upper

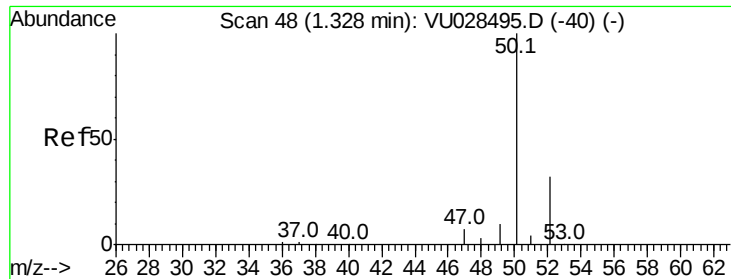
85 100

87 39.4 15.9 47.6



Abundance Ion 84.90 (84.60 to 85.60): VU028495.D (-3) (-)





#3

Chloromethane

Concen: 0.494 ug/l

RT: 1.33 min Scan# 48

Delta R.T. -0.00 min

Lab File: VU028565.D

Acq: 10 Dec 2018 20:48

Instrument :

MSVOA_U

ClientSampleId :

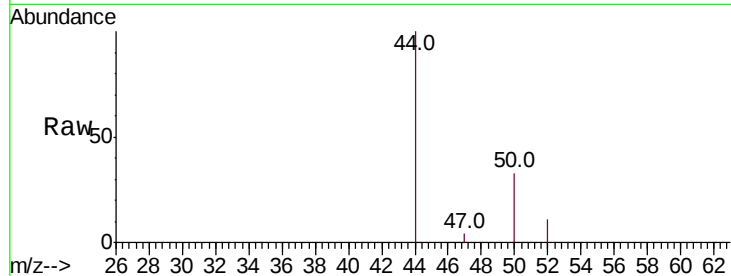
RE-131D2-20181205

Tot Ion: 50 Resp: 1019

Ion Ratio Lower Upper

50 100

52 33.8 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

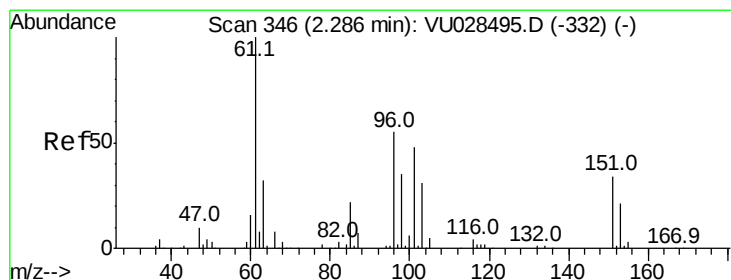
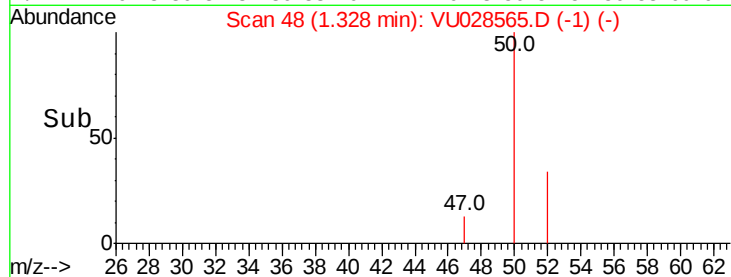
400

200

0

1.30 1.32 1.34 1.36

Time-->



#9

1,1,2-Trichlorotrifluoroethane

Concen: 199.423 ug/l

RT: 2.29 min Scan# 346

Delta R.T. -0.00 min

Lab File: VU028565.D

Acq: 10 Dec 2018 20:48

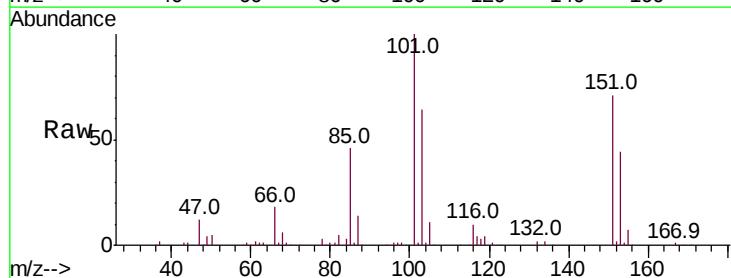
Tgt Ion: 101 Resp: 186769

Ion Ratio Lower Upper

101 100

85 45.4 36.4 54.6

151 69.5 58.2 87.2



Abundance Ion 100.90 (100.60 to 101.60): VU028495.D (-332) (-)

Ion 84.90 (84.60 to 85.60): VU028495.D (-332) (-)

Ion 150.80 (150.50 to 151.50): VU028495.D (-332) (-)

2.29

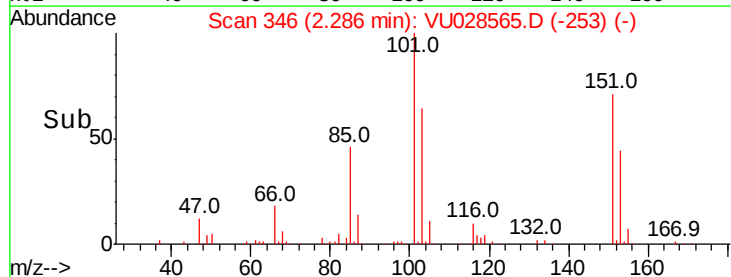
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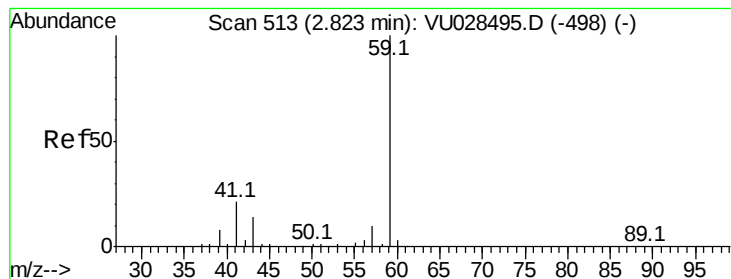
50000

0

2.20 2.25 2.30 2.35 2.40

Time-->



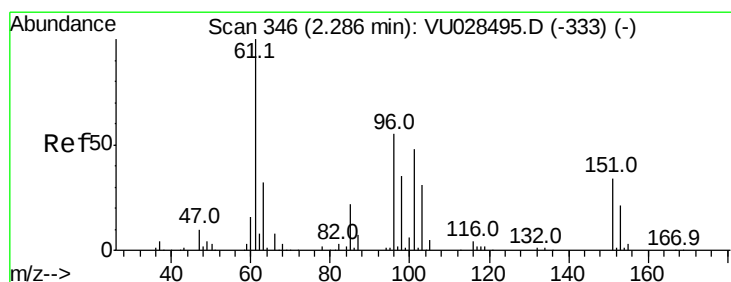
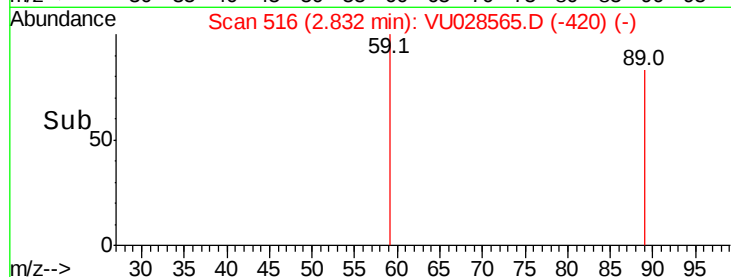
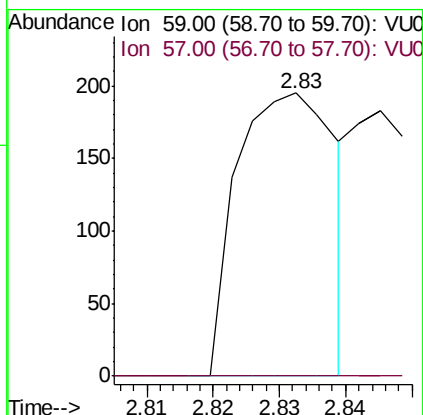
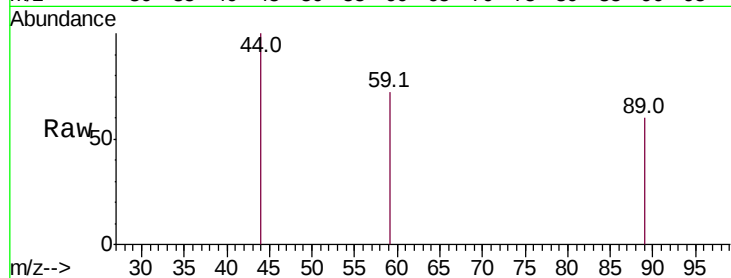


#11

Tert butyl alcohol
 Concen: 0.703 ug/l
 RT: 2.83 min Scan# 516
 Delta R.T. 0.01 min
 Lab File: VU028565.D
 Acq: 10 Dec 2018 20:48

Instrument :
 MSVOA_U
 ClientSampleId :
 RE-131D2-20181205

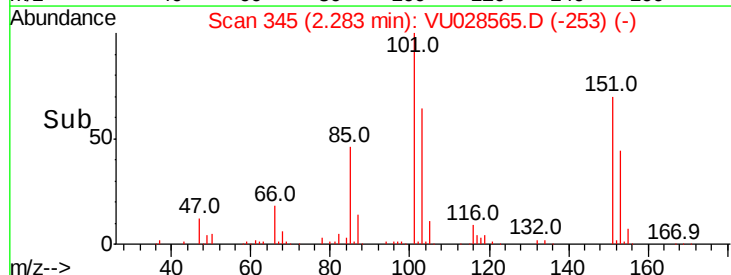
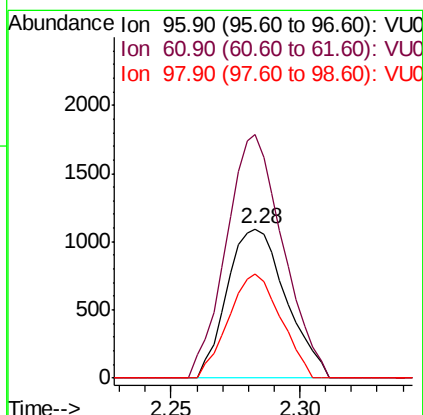
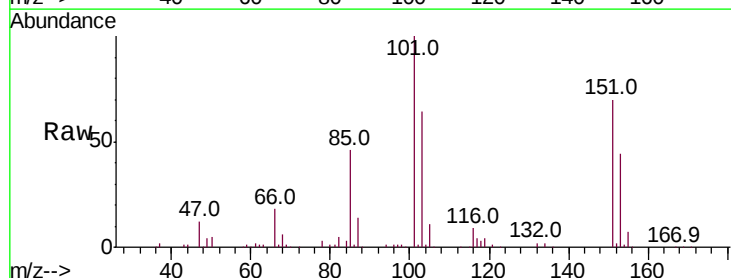
Tot Ion: 59 Resp: 200
 Ion Ratio Lower Upper
 59 100
 57 0.0 8.0 12.0#

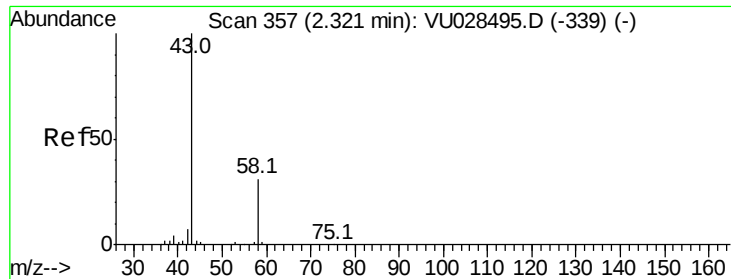


#12

1,1-Dichloroethene
 Concen: 1.867 ug/l
 RT: 2.28 min Scan# 345
 Delta R.T. -0.00 min
 Lab File: VU028565.D
 Acq: 10 Dec 2018 20:48

Tgt Ion: 96 Resp: 1740
 Ion Ratio Lower Upper
 96 100
 61 163.6 146.4 219.6
 98 70.2 51.8 77.8





#16

Acetone

Concen: 1.124 ug/l

RT: 2.32 min Scan# 357

Delta R.T. -0.00 min

Lab File: VU028565.D

Acq: 10 Dec 2018 20:48

Instrument :

MSVOA_U

ClientSampleId :

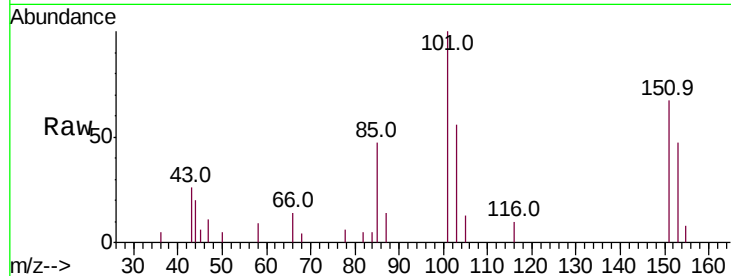
RE-131D2-20181205

Tot Ion: 43 Resp: 937

Ion Ratio Lower Upper

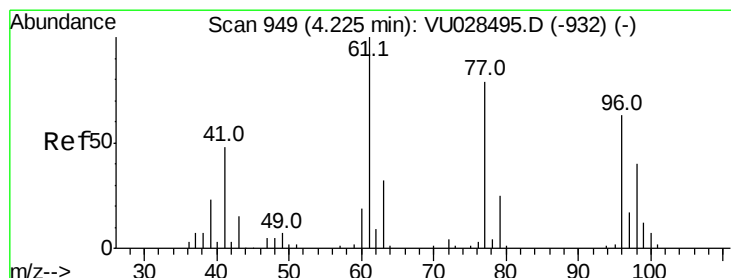
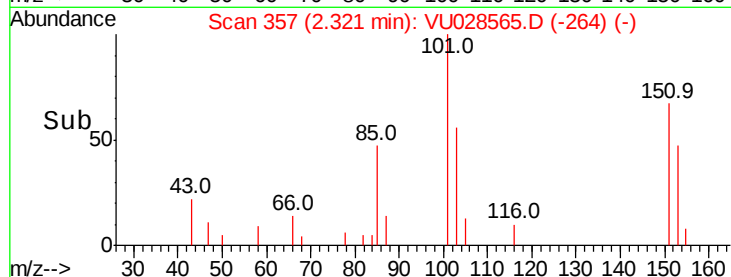
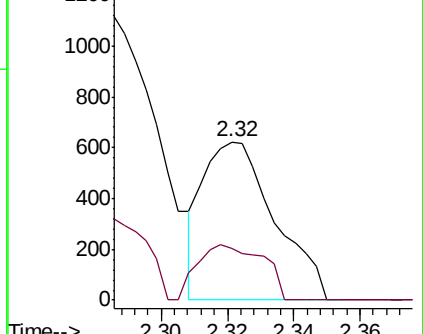
43 100

58 32.9 24.6 37.0



Abundance Ion 43.00 (42.70 to 43.70): VU0

Ion 58.00 (57.70 to 58.70): VU0



#27

cis-1,2-Dichloroethene

Concen: 4.460 ug/l

RT: 4.23 min Scan# 950

Delta R.T. 0.00 min

Lab File: VU028565.D

Acq: 10 Dec 2018 20:48

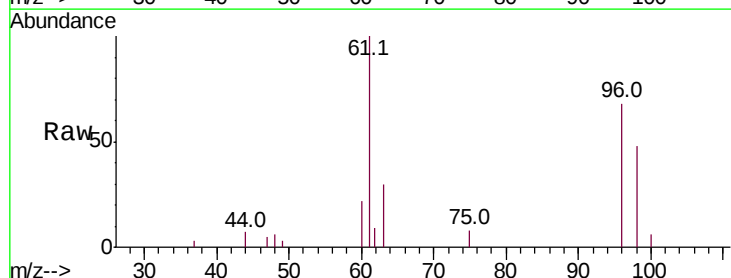
Tgt Ion: 96 Resp: 5296

Ion Ratio Lower Upper

96 100

61 149.0 0.0 332.4

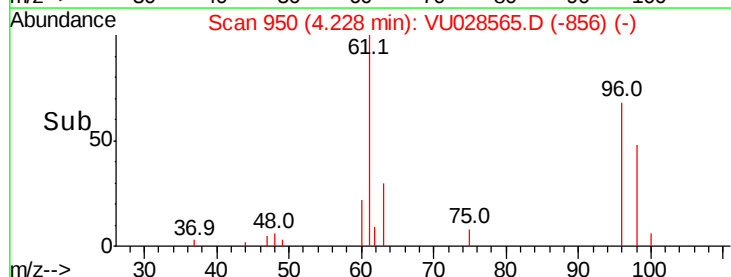
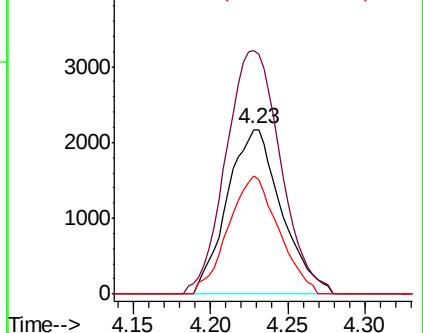
98 66.5 0.0 129.0

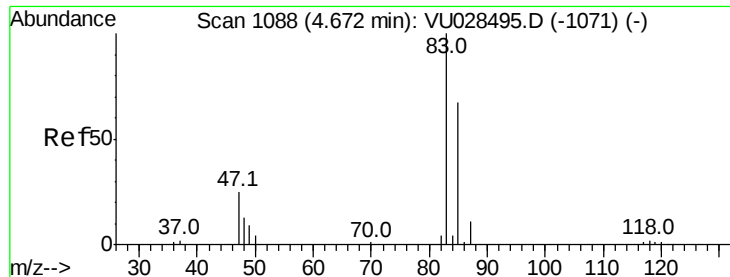


Abundance Ion 95.90 (95.60 to 96.60): VU0

Ion 60.90 (60.60 to 61.60): VU0

Ion 97.90 (97.60 to 98.60): VU0





#30

Chloroform

Concen: 0.254 ug/l

RT: 4.67 min Scan# 1089

Delta R.T. 0.00 min

Lab File: VU028565.D

Acq: 10 Dec 2018 20:48

Instrument :

MSVOA_U

ClientSampleId :

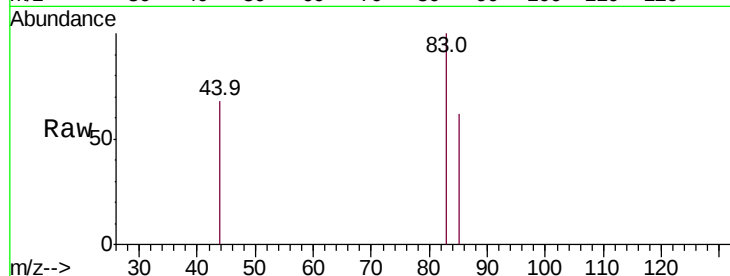
RE-131D2-20181205

Tot Ion: 83 Resp: 496

Ion Ratio Lower Upper

83 100

85 61.7 53.6 80.4



Abundance Ion 82.90 (82.60 to 83.60): VU028495.D (-1071) (-)

Ion 84.90 (84.60 to 85.60): VU028495.D (-1071) (-)

4.67

250

200

150

100

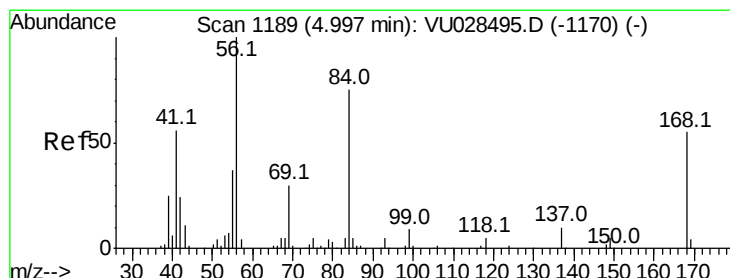
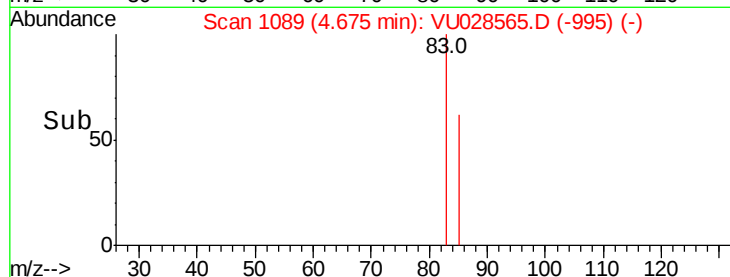
50

0

4.65

4.70

Time-->



#31

Cyclohexane

Concen: Below Cal

RT: 4.98 min Scan# 1184

Delta R.T. -0.02 min

Lab File: VU028565.D

Acq: 10 Dec 2018 20:48

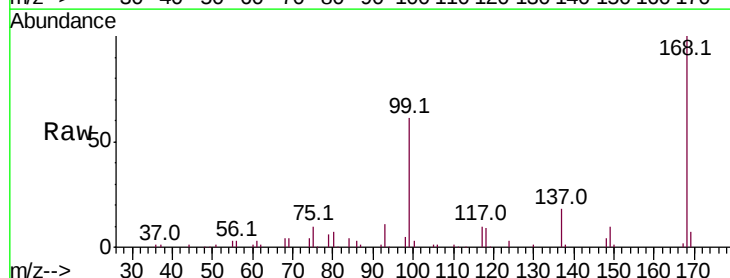
Tgt Ion: 56 Resp: 1960

Ion Ratio Lower Upper

56 100

69 169.2 24.0 36.0#

84 156.4 59.7 89.5#



Abundance Ion 56.00 (55.70 to 56.70): VU028495.D (-1170) (-)

Ion 69.00 (68.70 to 69.70): VU028495.D (-1170) (-)

Ion 84.00 (83.70 to 84.70): VU028495.D (-1170) (-)

2000

1500

1000

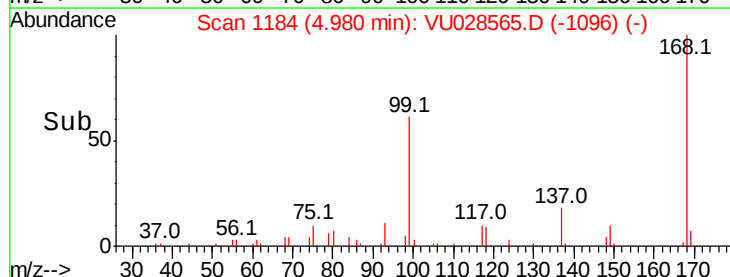
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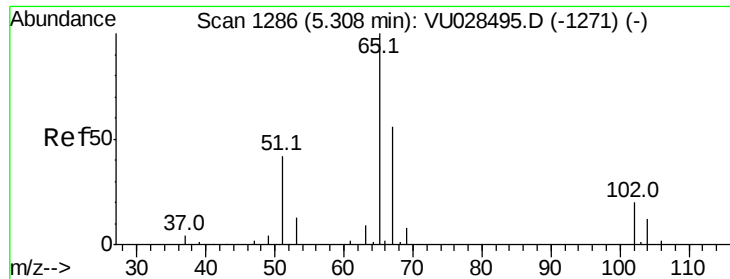
0

4.95

5.00

Time-->

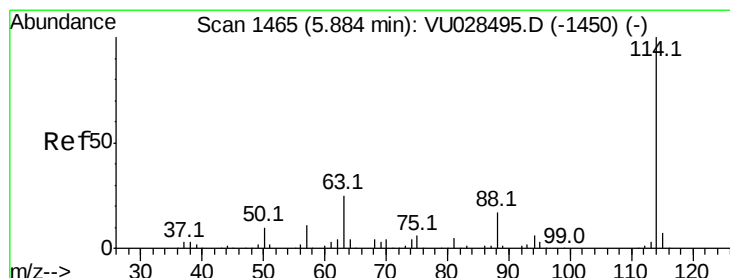
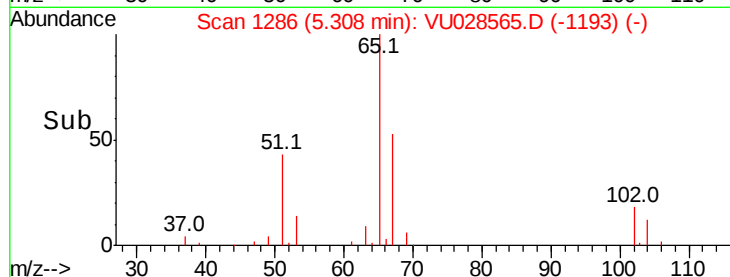
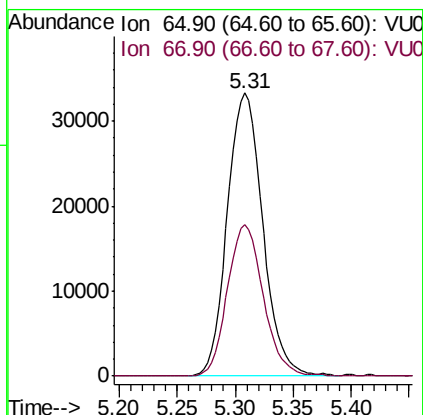
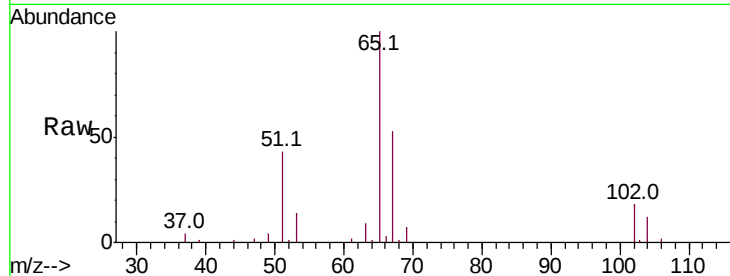




#33
 1,2-Dichloroethane-d4
 Concen: 55.570 ug/l
 RT: 5.31 min Scan# 1286
 Delta R.T. -0.00 min
 Lab File: VU028565.D
 Acq: 10 Dec 2018 20:48

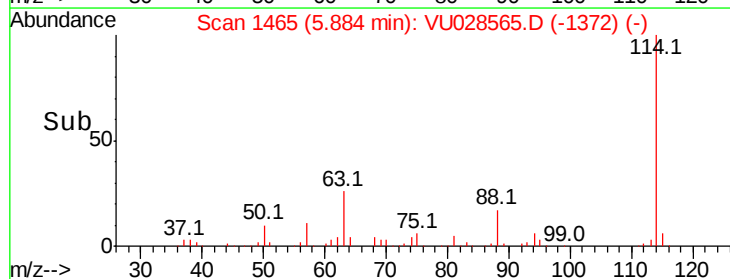
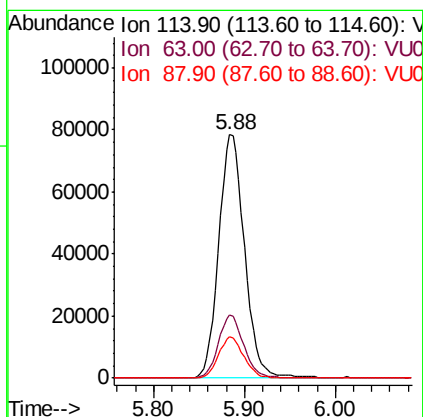
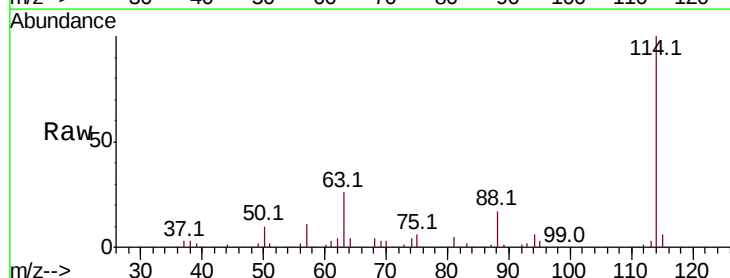
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 MSVOA_U
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 RE-131D2-20181205

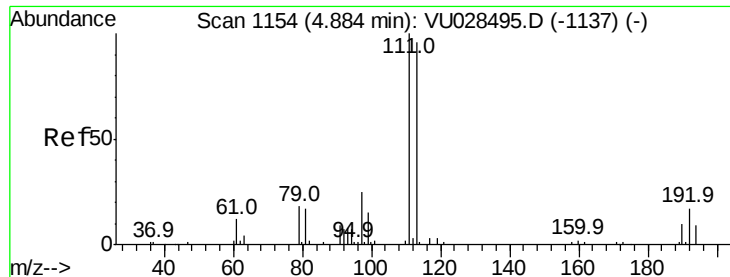
Tot Ion: 65 Resp: 70976
 Ion Ratio Lower Upper
 65 100
 67 53.8 0.0 110.6



#34
 1,4-Difluorobenzene
 Concen: 50.000 ug/l
 RT: 5.88 min Scan# 1465
 Delta R.T. -0.00 min
 Lab File: VU028565.D
 Acq: 10 Dec 2018 20:48

Tgt Ion: 114 Resp: 154597
 Ion Ratio Lower Upper
 114 100
 63 25.8 0.0 49.2
 88 17.0 0.0 33.4

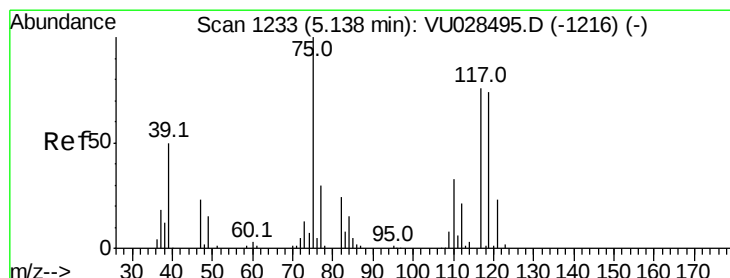
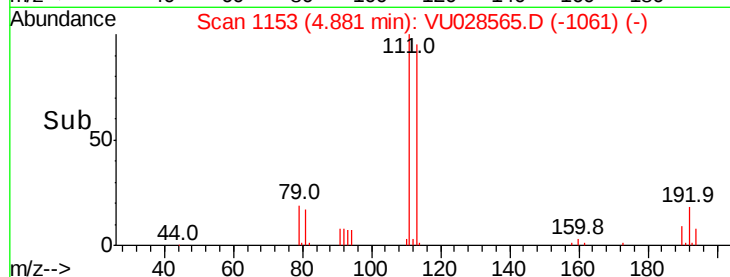
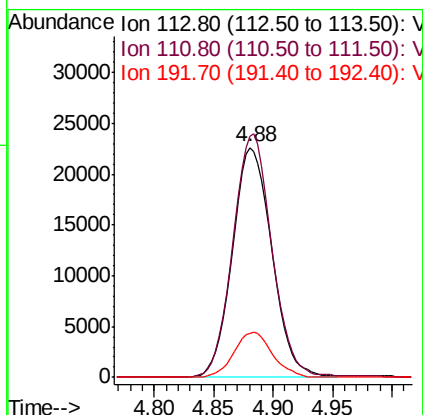
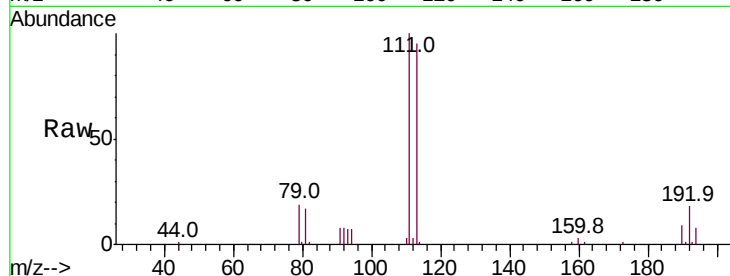




#35
 Dibromofluoromethane
 Concen: 53.577 ug/l
 RT: 4.88 min Scan# 1153
 Delta R.T. -0.00 min
 Lab File: VU028565.D
 Acq: 10 Dec 2018 20:48

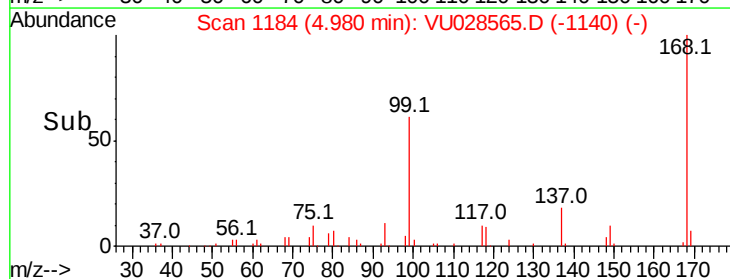
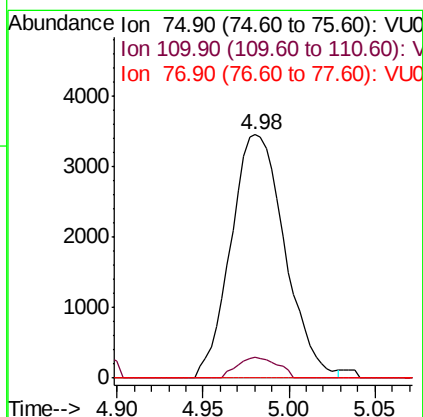
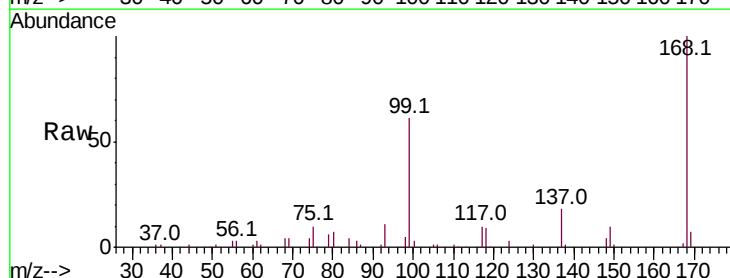
Instrument :
 MSVOA_U
 ClientSampleId :
 RE-131D2-20181205

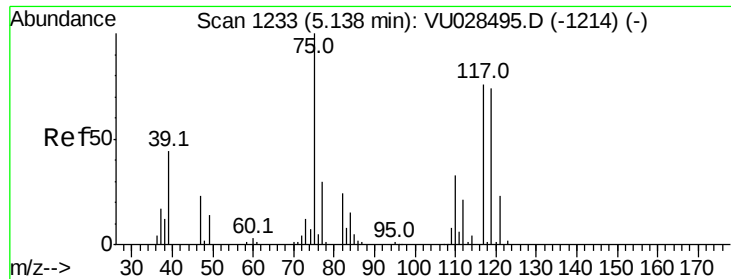
Tot Ion:113 Resp: 52125
 Ion Ratio Lower Upper
 113 100
 111 104.6 83.4 125.0
 192 19.0 14.8 22.2



#36
 1,1-Dichloropropene
 Concen: 4.445 ug/l
 RT: 4.98 min Scan# 1184
 Delta R.T. -0.16 min
 Lab File: VU028565.D
 Acq: 10 Dec 2018 20:48

Tgt Ion: 75 Resp: 7520
 Ion Ratio Lower Upper
 75 100
 110 6.3 16.1 48.2#
 77 0.0 24.5 36.7#





#38

Carbon Tetrachloride

Concen: 0.251 ug/l

RT: 5.13 min Scan# 1231

Delta R.T. -0.01 min

Lab File: VU028565.D

Acq: 10 Dec 2018 20:48

Instrument :

MSVOA_U

ClientSampleId :

RE-131D2-20181205

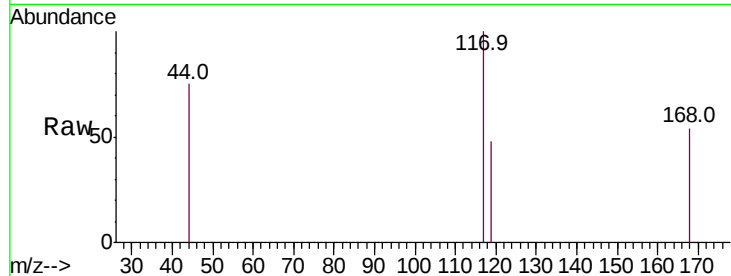
Tot Ion:117 Resp: 342

Ion Ratio Lower Upper

117 100

119 47.7 77.6 116.4#

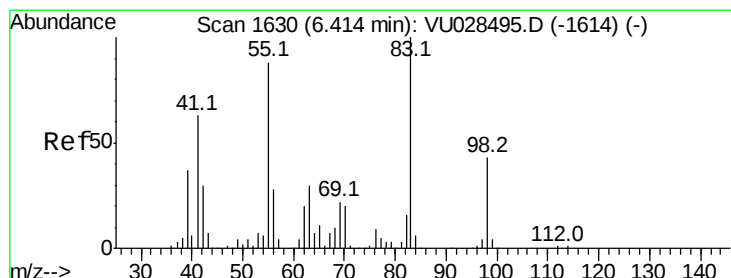
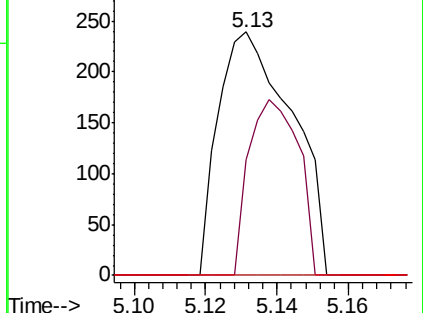
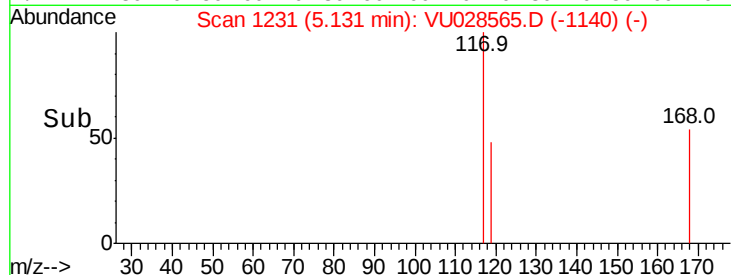
121 0.0 24.6 36.8#



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



#39

Methylcyclohexane

Concen: 0.447 ug/l

RT: 6.18 min Scan# 1557

Delta R.T. -0.23 min

Lab File: VU028565.D

Acq: 10 Dec 2018 20:48

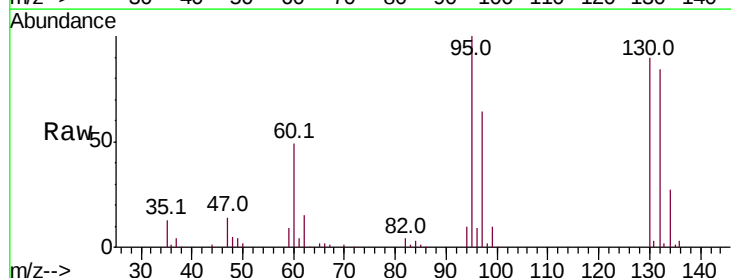
Tgt Ion: 83 Resp: 923

Ion Ratio Lower Upper

83 100

55 0.0 70.2 105.2#

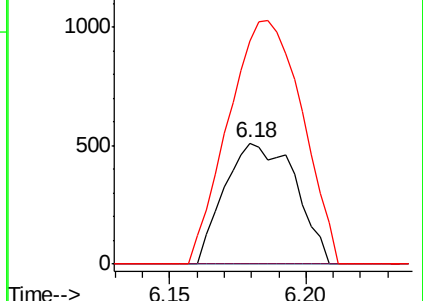
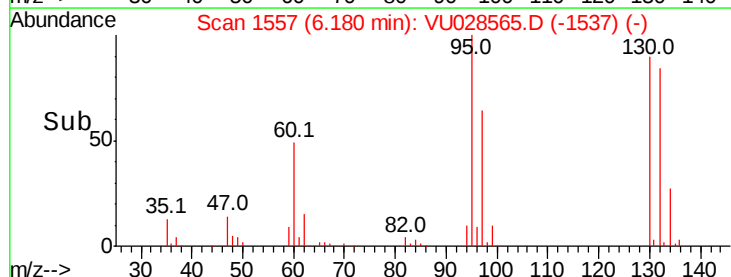
98 184.5 34.2 51.4#

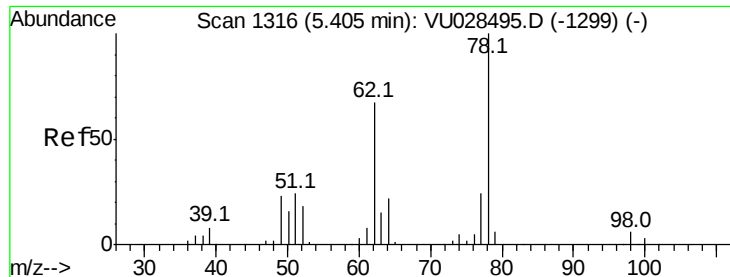


Abundance Ion 83.00 (82.70 to 83.70): VU0

Ion 55.00 (54.70 to 55.70): VU0

Ion 98.00 (97.70 to 98.70): VU0





#42

1,2-Dichloroethane

Concen: 0.255 ug/l

RT: 5.41 min Scan# 1318

Delta R.T. 0.01 min

Lab File: VU028565.D

Acq: 10 Dec 2018 20:48

Instrument :

MSVOA_U

ClientSampleId :

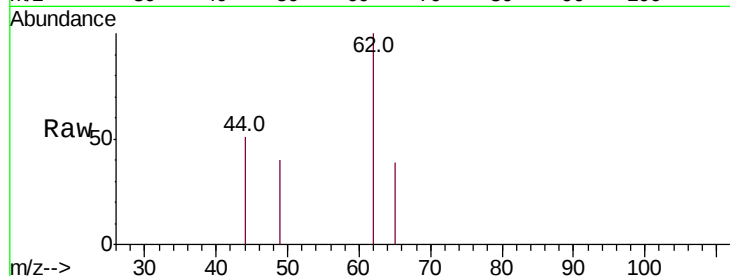
RE-131D2-20181205

Tot Ion: 62 Resp: 444

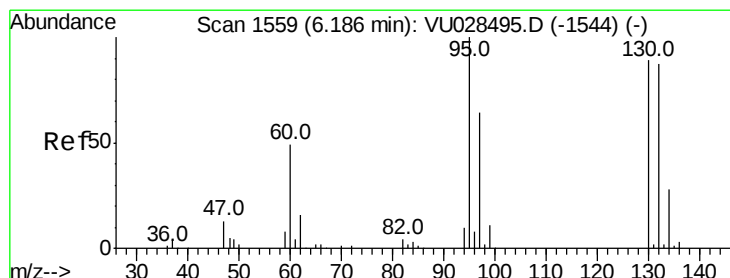
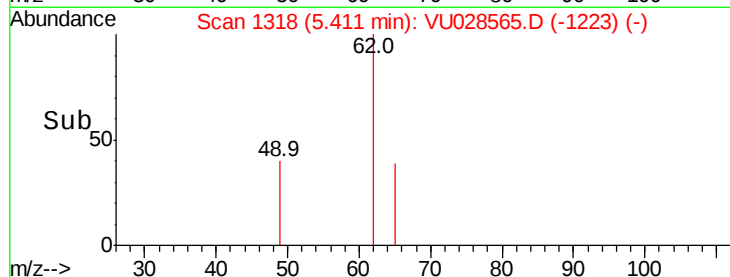
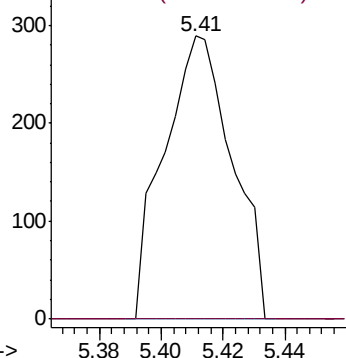
Ion Ratio Lower Upper

62 100

98 0.0 0.0 17.2



Abundance Ion 61.90 (61.60 to 62.60): VU028495.D (-1299) (-)



#44

Trichloroethene

Concen: 69.781 ug/l

RT: 6.19 min Scan# 1559

Delta R.T. -0.00 min

Lab File: VU028565.D

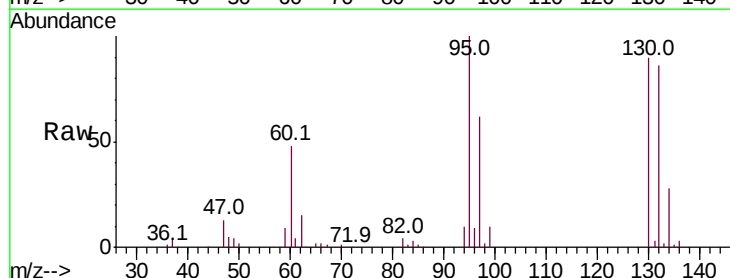
Acq: 10 Dec 2018 20:48

Tgt Ion:130 Resp: 77307

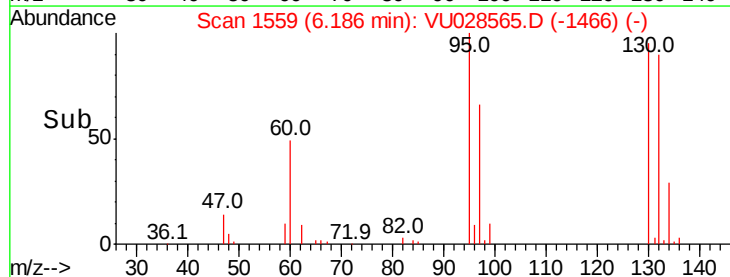
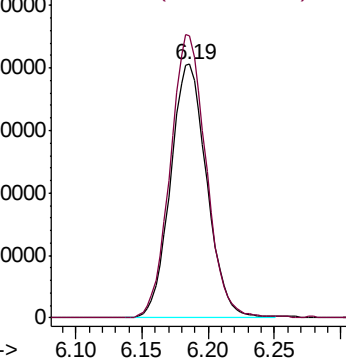
Ion Ratio Lower Upper

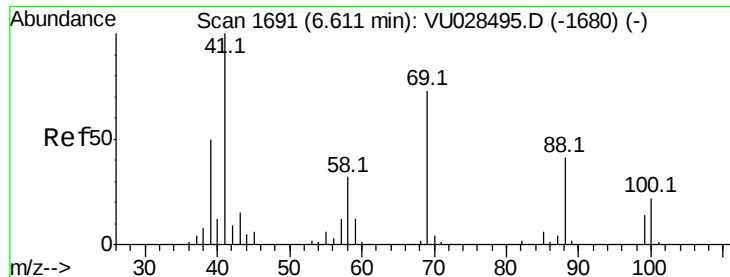
130 100

95 111.2 0.0 224.0



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





#49

1,4-Dioxane

Concen: 18.372 ug/l

RT: 6.62 min Scan# 1695

Delta R.T. 0.01 min

Lab File: VU028565.D

Acq: 10 Dec 2018 20:48

Instrument :

MSVOA_U

ClientSampleId :

RE-131D2-20181205

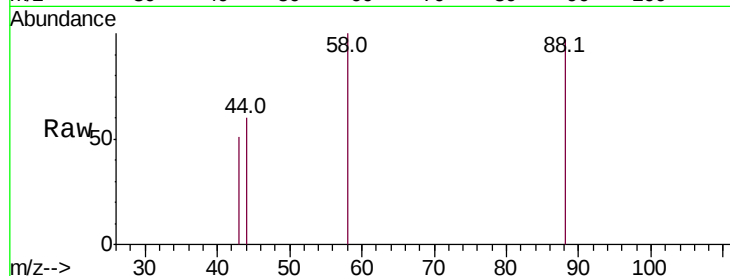
Tot Ion: 88 Resp: 499

Ion Ratio Lower Upper

88 100

43 28.1 30.9 46.3#

58 88.8 62.4 93.6



Abundance Ion 88.00 (87.70 to 88.70): VU028495.D (-1680) (-)

Ion 43.00 (42.70 to 43.70): VU028495.D (-1680) (-)

Ion 58.00 (57.70 to 58.70): VU028495.D (-1680) (-)

6.62

300

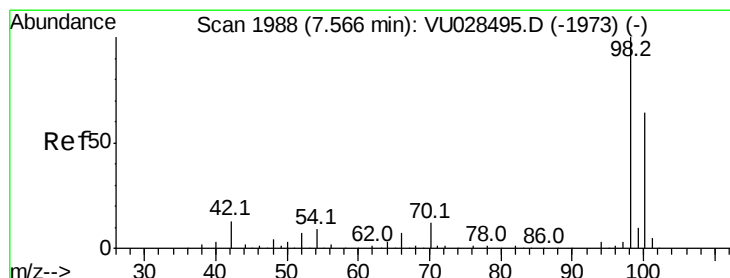
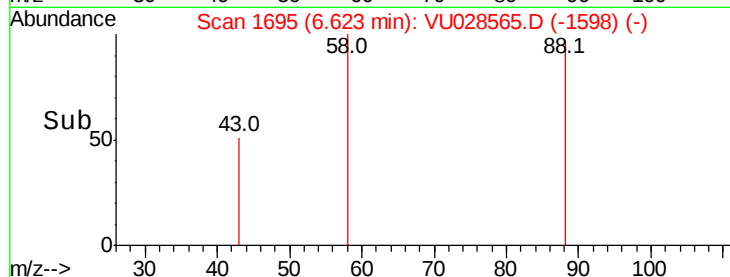
200

100

0

6.58 6.60 6.62 6.64 6.66

Time-->



#50

Toluene-d8

Concen: 53.061 ug/l

RT: 7.57 min Scan# 1988

Delta R.T. -0.00 min

Lab File: VU028565.D

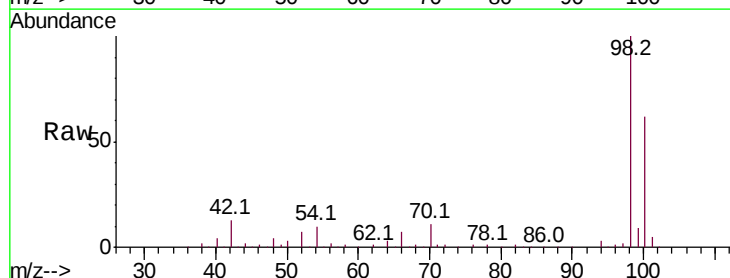
Acq: 10 Dec 2018 20:48

Tgt Ion: 98 Resp: 204210

Ion Ratio Lower Upper

98 100

100 62.3 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) (-)

7.57

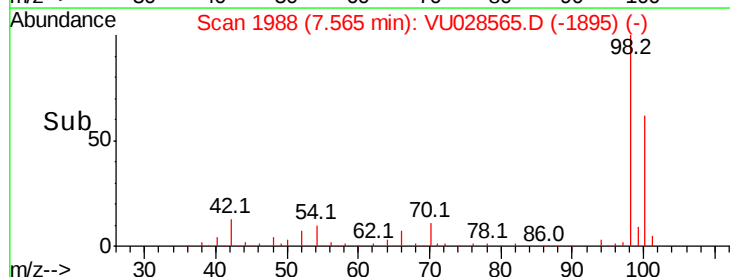
100000

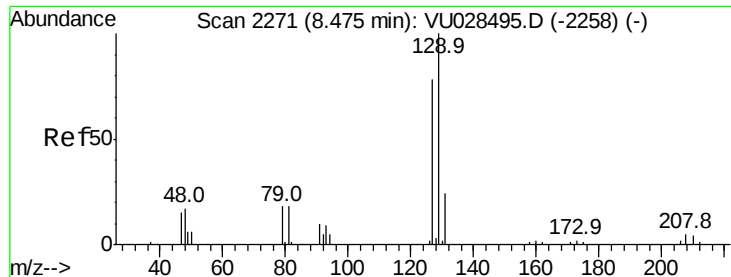
50000

0

7.50 7.55 7.60 7.65 7.70

Time-->





#60

Dibromochloromethane

Concen: 8.107 ug/l

RT: 8.22 min Scan# 2193

Delta R.T. -0.25 min

Lab File: VU028565.D

Acq: 10 Dec 2018 20:48

Instrument :

MSVOA_U

ClientSampleId :

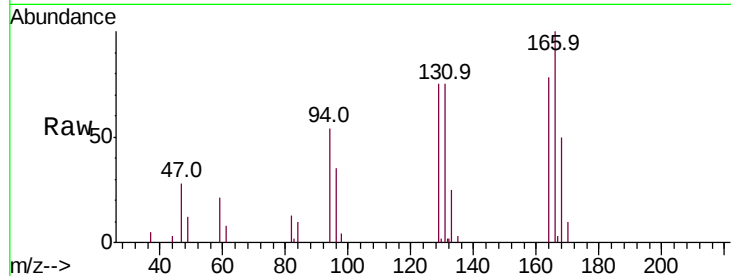
RE-131D2-20181205

Tot Ion:129 Resp: 9200

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

6000

5000

4000

3000

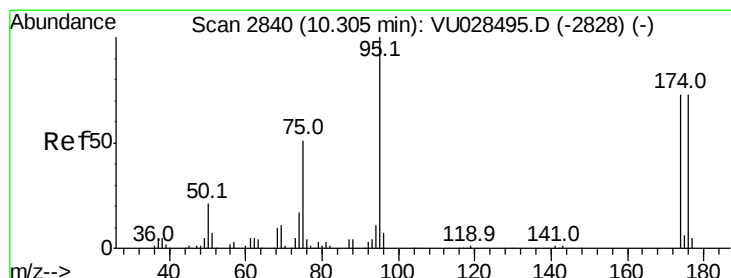
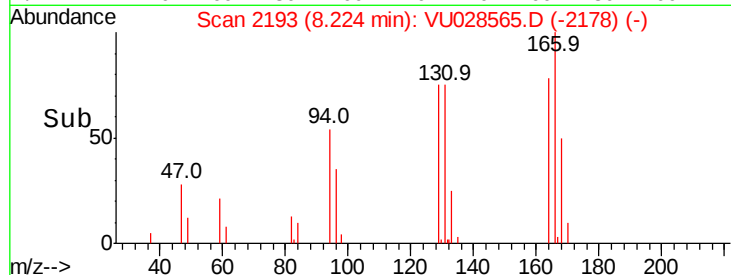
2000

1000

0

8.20 8.25

Time-->



#62

4-Bromofluorobenzene

Concen: 46.249 ug/l

RT: 10.30 min Scan# 2840

Delta R.T. -0.00 min

Lab File: VU028565.D

Acq: 10 Dec 2018 20:48

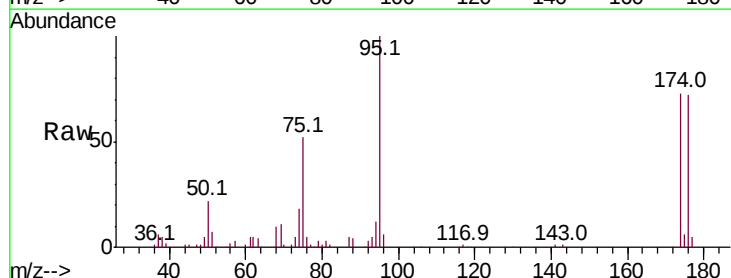
Tgt Ion: 95 Resp: 66527

Ion Ratio Lower Upper

95 100

174 73.6 0.0 150.4

176 73.4 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

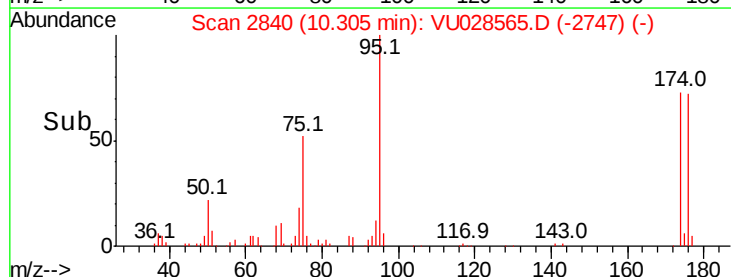
10000

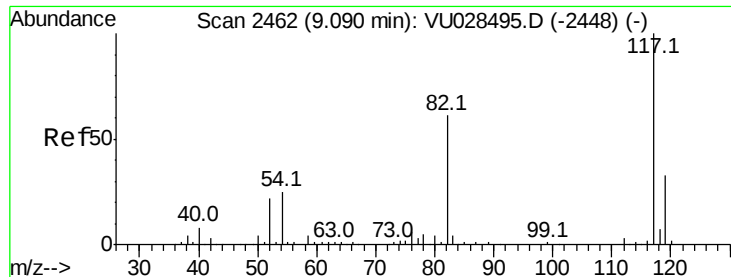
0

10.30

10.40

Time-->

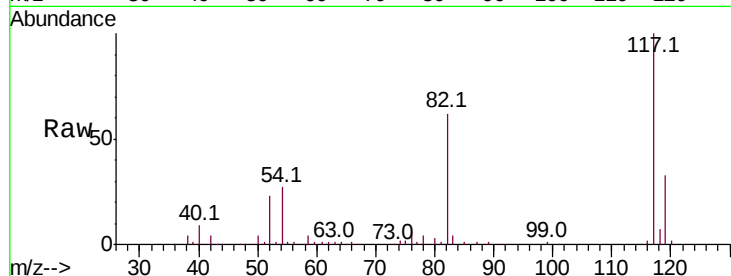




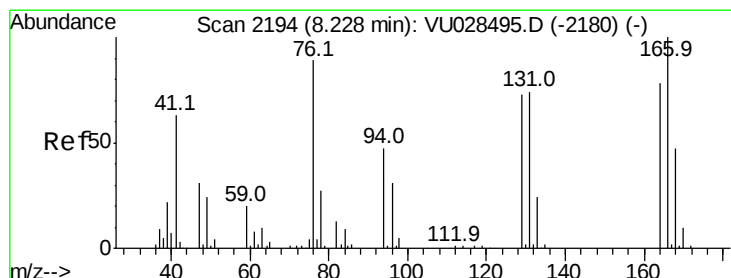
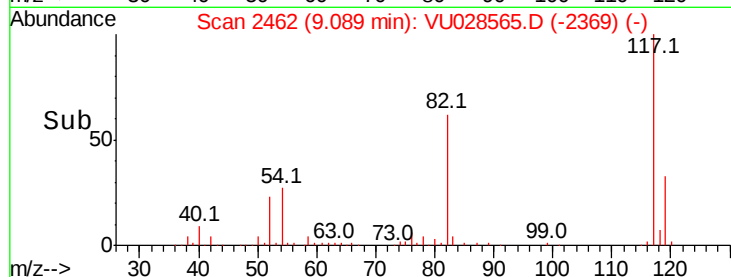
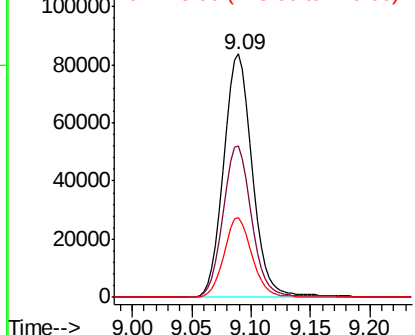
#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 9.09 min Scan# 2462
Delta R.T. -0.00 min
Lab File: VU028565.D
Acq: 10 Dec 2018 20:48

Instrument :
MSVOA_U
ClientSampleId :
RE-131D2-20181205

Tot Ion:117 Resp: 140093
Ion Ratio Lower Upper
117 100
82 62.1 48.9 73.3
119 32.6 26.2 39.4

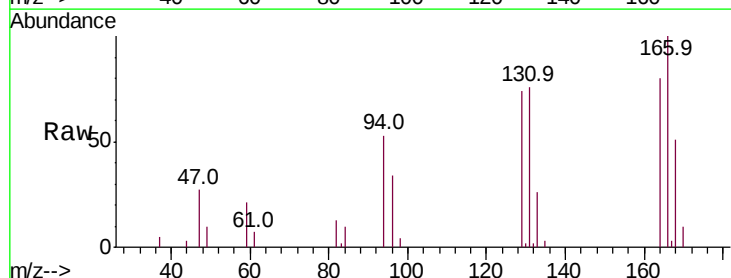


Abundance Ion 116.90 (116.60 to 117.60): V
Ion 82.00 (81.70 to 82.70): V
Ion 118.90 (118.60 to 119.60): V

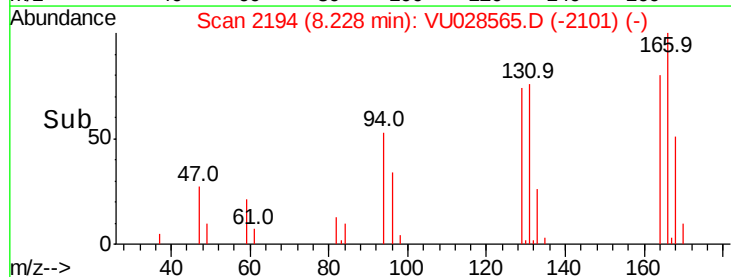
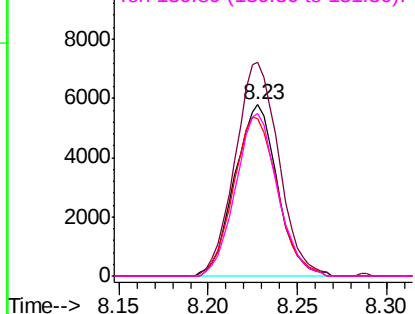


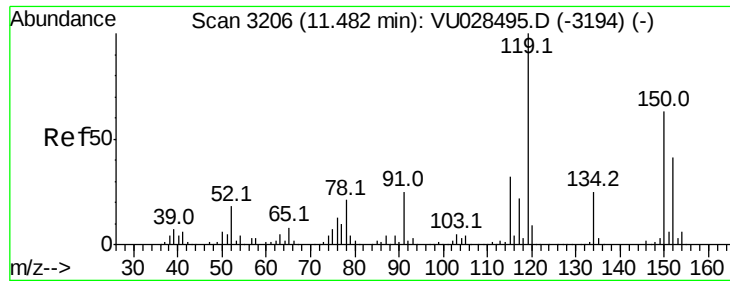
#64
Tetrachloroethene
Concen: 10.304 ug/l
RT: 8.23 min Scan# 2194
Delta R.T. -0.00 min
Lab File: VU028565.D
Acq: 10 Dec 2018 20:48

Tgt Ion:164 Resp: 9629
Ion Ratio Lower Upper
164 100
166 124.8 101.9 152.9
129 91.9 74.9 112.3
131 95.4 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: VU028565.D

Acq: 10 Dec 2018 20:48

Instrument :

MSVOA_U

ClientSampleId :

RE-131D2-20181205

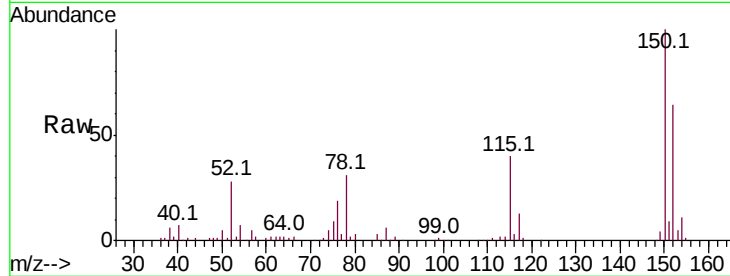
Tot Ion:152 Resp: 54742

Ion Ratio Lower Upper

152 100

115 61.7 42.7 128.1

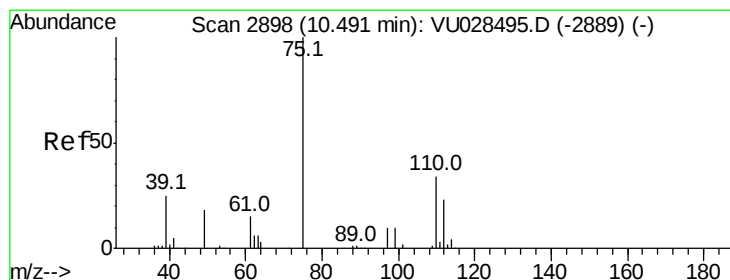
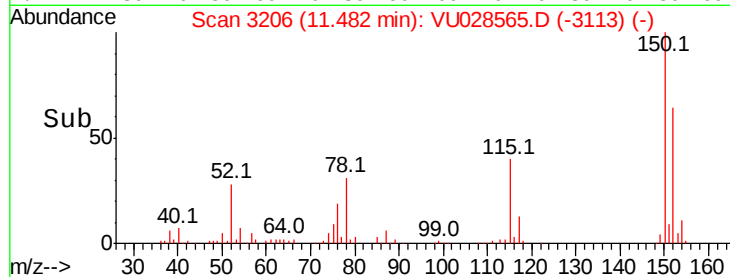
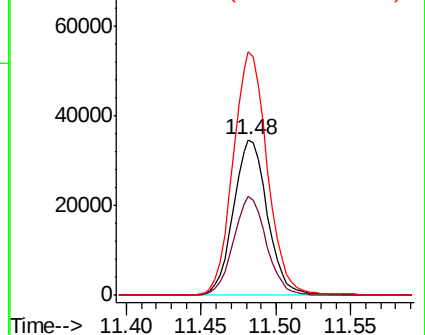
150 157.7 0.0 346.0



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: 25.231 ug/l

RT: 10.31 min Scan# 2841

Delta R.T. -0.18 min

Lab File: VU028565.D

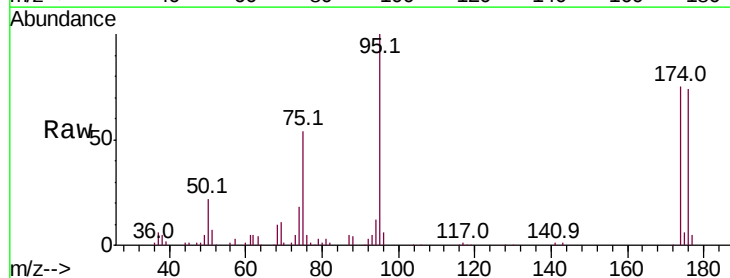
Acq: 10 Dec 2018 20:48

Tgt Ion: 75 Resp: 35269

Ion Ratio Lower Upper

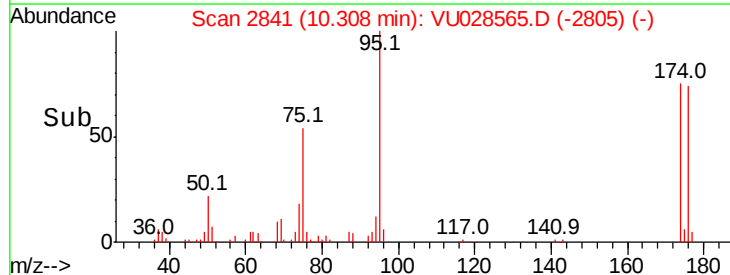
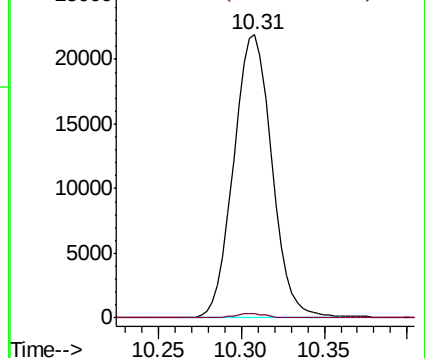
75 100

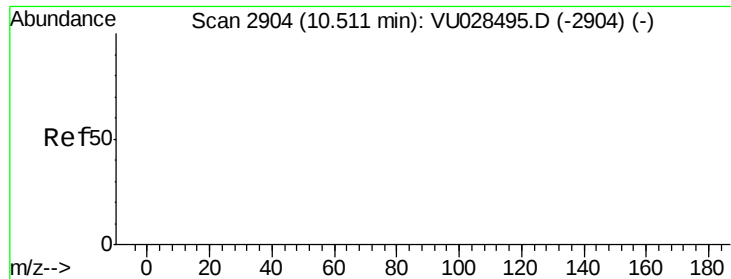
77 1.2 20.8 62.4#



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: 61.909 ug/l

RT: 10.31 min Scan# 2841

Delta R.T. -0.20 min

Lab File: VU028565.D

Acq: 10 Dec 2018 20:48

Instrument :

MSVOA_U

ClientSampleId :

RE-131D2-20181205

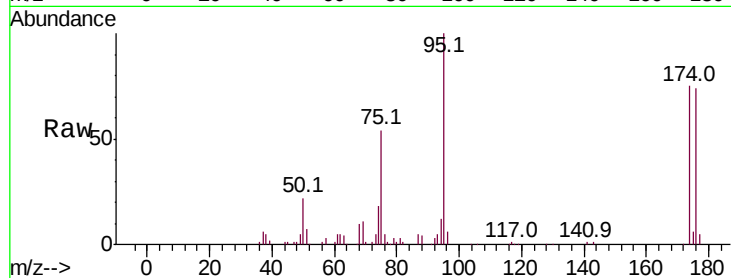
Tot Ion: 75 Resp: 35269

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

