

Data Path : Z:\VOASRV\HPCHEM1\MSVOA U\DATA\VU121318\
 Data File : VU028617.D
 Acq On : 11 Dec 2018 19:14
 Operator : MD/SY
 Sample : J6325-04DL 5X
 Misc : 5.0mL/MSVOA U/WATER
 ALS Vial : 11 Sample Multiplier: 1

Instrument :
 MSVOA_U
 ClientSampleId :
 RE-125D2-20181204DL

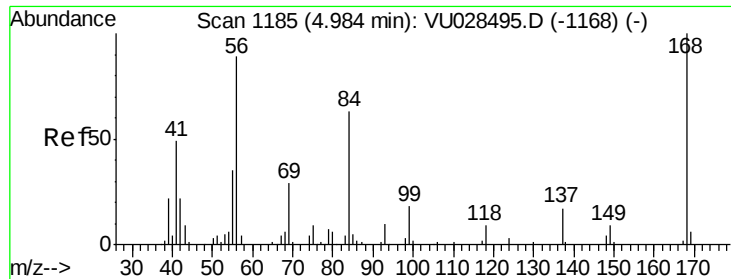
Quant Time: Dec 12 04:12:31 2018
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_U\METHOD\82U120618W.M
 Quant Title : SW846 8260
 QLast Update : Fri Dec 07 00:39:42 2018
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	4.98	168	85783	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	5.88	114	156260	50.00	ug/l	0.00
63) Chlorobenzene-d5	9.09	117	141652	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	11.48	152	55734	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	71908	54.93	ug/l	0.00
Spiked Amount			Recovery	=	109.86%	
35) Dibromofluoromethane	4.88	113	52090	52.97	ug/l	0.00
Spiked Amount			Recovery	=	105.94%	
50) Toluene-d8	7.57	98	200598	51.57	ug/l	0.00
Spiked Amount			Recovery	=	103.14%	
62) 4-Bromofluorobenzene	10.30	95	66918	46.03	ug/l	0.00
Spiked Amount			Recovery	=	92.06%	

Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
3) Chloromethane	1.33	50	1614	0.764	ug/l	95
4) Vinyl Chloride	1.29	62	1592	1.044	ug/l #	43
5) Bromomethane	1.62	94	146	0.238	ug/l #	4
9) 1,1,2-Trichlorotrifluoroet	2.29	101	2747	2.862	ug/l	100
11) Tert butyl alcohol	2.83	59	618	2.119	ug/l #	73
12) 1,1-Dichloroethene	2.28	96	875	0.916	ug/l	98
16) Acetone	2.32	43	462	0.541	ug/l #	44
18) Methyl Acetate	2.62	43	574	0.259	ug/l #	56
27) cis-1,2-Dichloroethene	4.22	96	719	0.591	ug/l	87
31) Cyclohexane	4.97	56	1948	Below Cal	#	1
36) 1,1-Dichloropropene	4.98	75	7802	4.563	ug/l #	49
38) Carbon Tetrachloride	4.98	117	8647	6.274	ug/l #	15
39) Methylcyclohexane	6.19	83	662	0.317	ug/l #	1
44) Trichloroethene	6.19	130	48460	43.277	ug/l	98
51) 4-Methyl-2-Pentanone	7.56	43	946	0.429	ug/l #	1
60) Dibromochloromethane	8.22	129	689	0.601	ug/l #	10
64) Tetrachloroethene	8.22	164	721	0.763	ug/l #	78
76) 1,2,3-Trichloropropane	10.31	75	36103	25.368	ug/l #	36
81) trans-1,4-Dichloro-2-buten	10.31	75	36103	62.242	ug/l #	100

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



#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 4.98 min Scan# 1185

Delta R.T. -0.00 min

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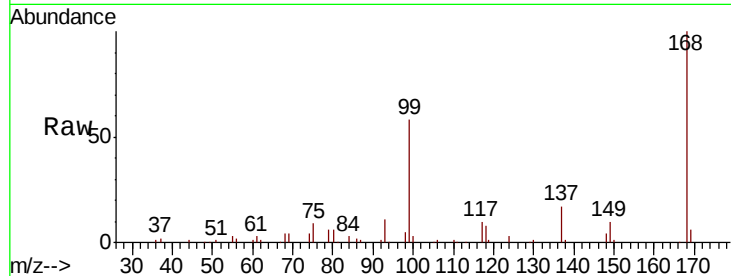
RE-125D2-20181204DL

Tot Ion:168 Resp: 85783

Ion Ratio Lower Upper

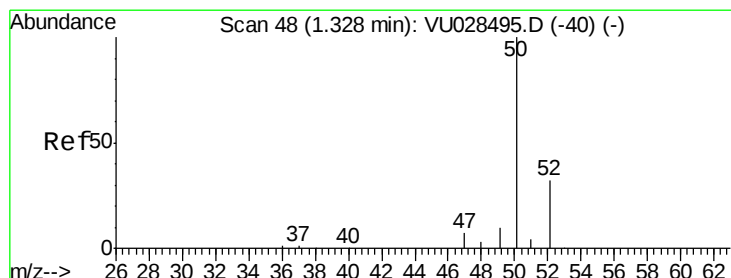
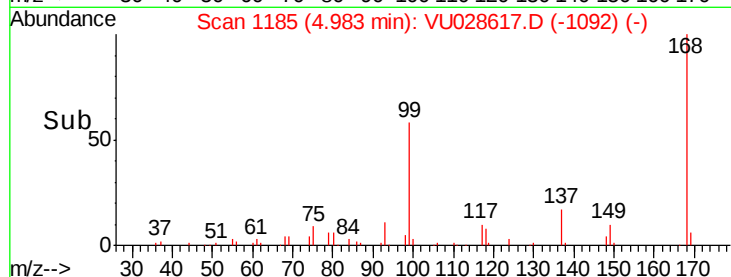
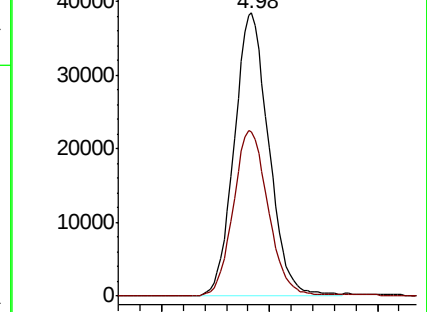
168 100

99 58.2 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) (-)



#3

Chloromethane

Concen: 0.764 ug/l

RT: 1.33 min Scan# 48

Delta R.T. -0.00 min

Lab File: VU028617.D

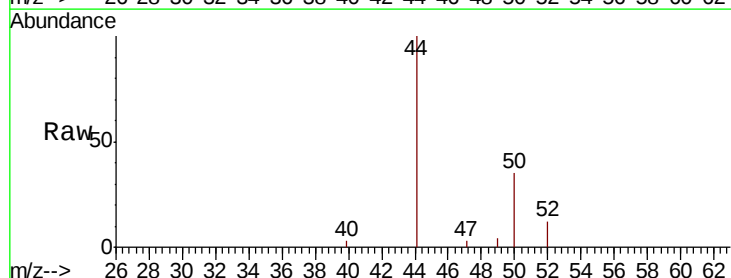
Acq: 11 Dec 2018 19:14

Tgt Ion: 50 Resp: 1614

Ion Ratio Lower Upper

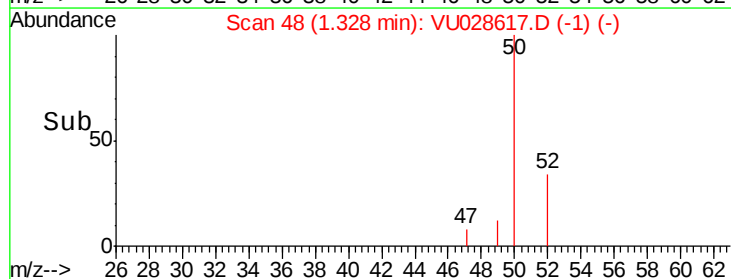
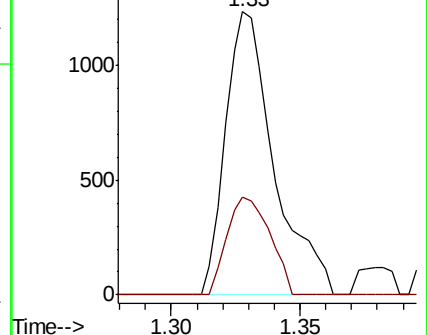
50 100

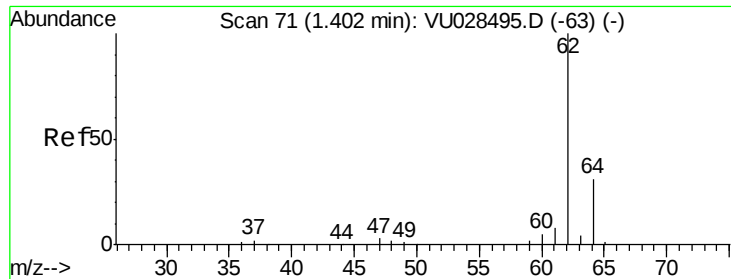
52 34.4 25.5 38.3



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

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





#4

Vinyl Chloride

Concen: 1.044 ug/l

RT: 1.29 min Scan# 35

Delta R.T. -0.12 min

Lab File: VU028617.D

Acq: 11 Dec 2018 19:14

Instrument :

MSVOA_U

ClientSampleId :

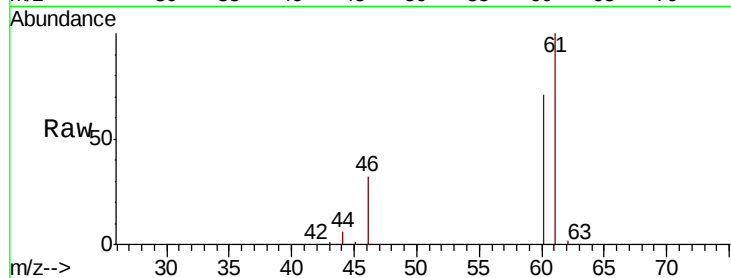
RE-125D2-20181204DL

Tot Ion: 62 Resp: 1592

Ion Ratio Lower Upper

62 100

64 0.0 25.1 37.7#



Abundance Ion 61.90 (61.60 to 62.60): VU0

Ion 63.90 (63.60 to 64.60): VU0

2000

1500

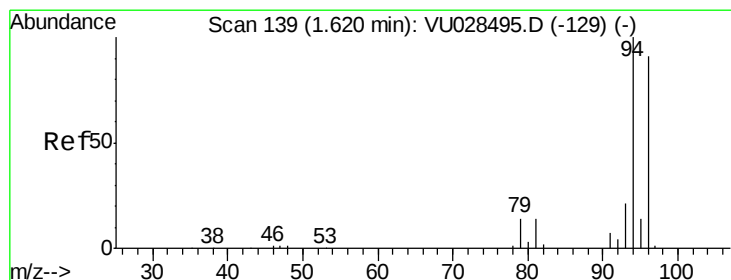
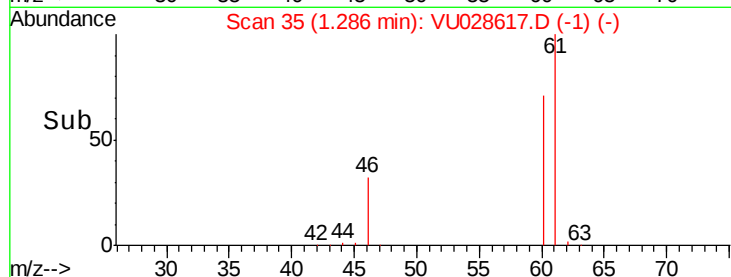
1000

500

0

Time-->

1.26 1.28 1.30 1.32



#5

Bromomethane

Concen: 0.238 ug/l

RT: 1.62 min Scan# 139

Delta R.T. -0.00 min

Lab File: VU028617.D

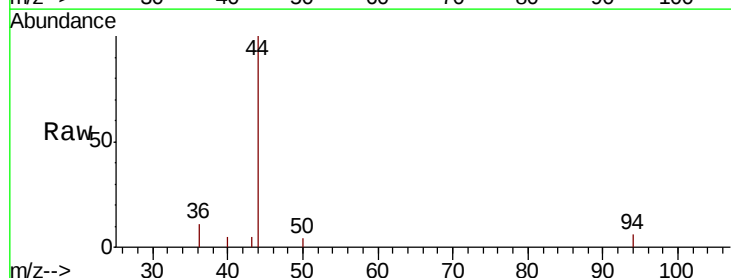
Acq: 11 Dec 2018 19:14

Tgt Ion: 94 Resp: 146

Ion Ratio Lower Upper

94 100

96 0.0 73.2 109.8#



Abundance Ion 93.90 (93.60 to 94.60): VU0

Ion 95.90 (95.60 to 96.60): VU0

150

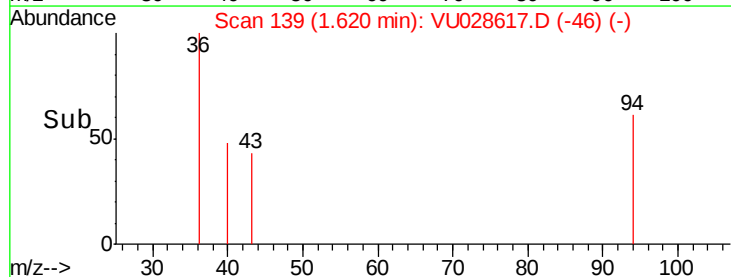
100

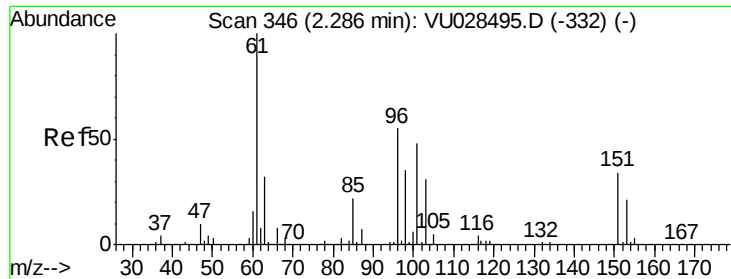
50

0

Time-->

1.60 1.62 1.64





#9

1,1,2-Trichlorotrifluoroethane

Concen: 2.862 ug/l

RT: 2.29 min Scan# 346

Delta R.T. -0.00 min

Lab File: VU028617.D

Acq: 11 Dec 2018 19:14

Instrument :

MSVOA_U

ClientSampleId :

RE-125D2-20181204DL

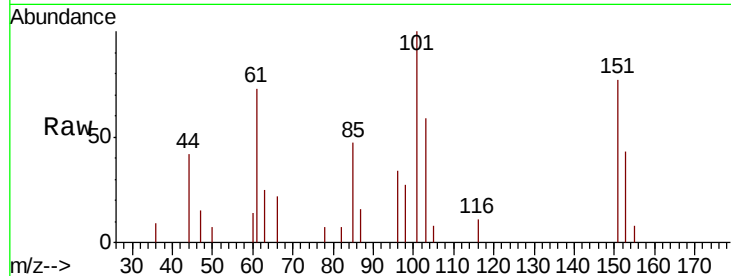
Tot Ion:101 Resp: 2747

Ion Ratio Lower Upper

101 100

85 45.6 36.4 54.6

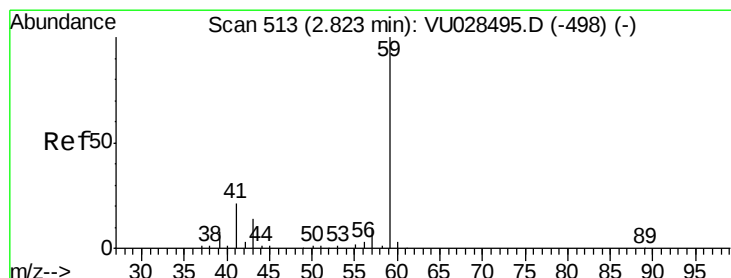
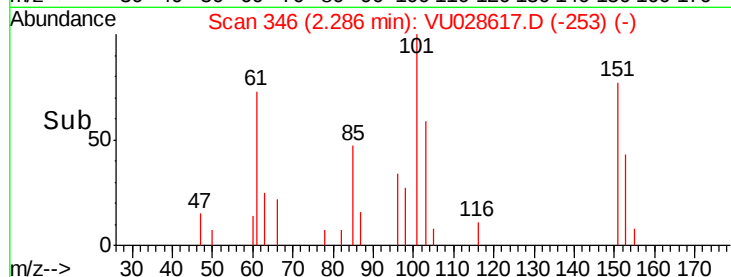
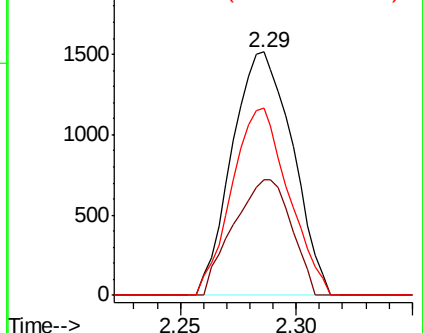
151 72.2 58.2 87.2



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



#11

Tert butyl alcohol

Concen: 2.119 ug/l

RT: 2.83 min Scan# 515

Delta R.T. 0.01 min

Lab File: VU028617.D

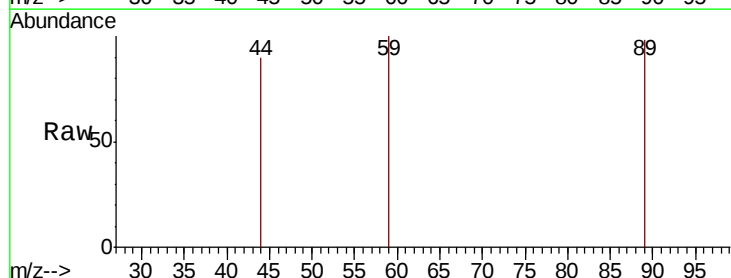
Acq: 11 Dec 2018 19:14

Tgt Ion: 59 Resp: 618

Ion Ratio Lower Upper

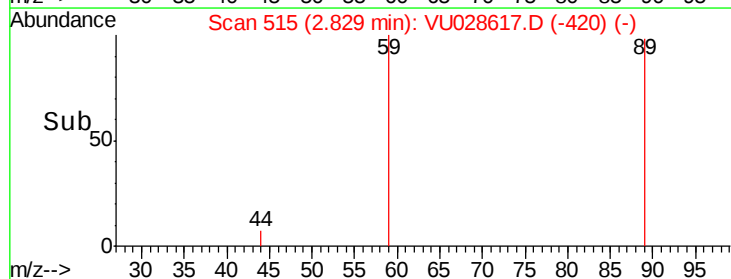
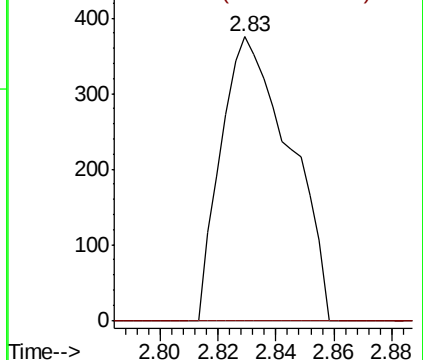
59 100

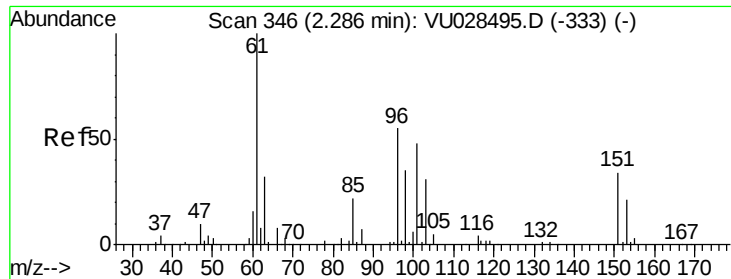
57 0.0 8.0 12.0#



Abundance Ion 59.00 (58.70 to 59.70): VU0

Ion 57.00 (56.70 to 57.70): VU0





#12

1,1-Dichloroethene

Concen: 0.916 ug/l

RT: 2.28 min Scan# 344

Delta R.T. -0.01 min

Lab File: VU028617.D

Acq: 11 Dec 2018 19:14

Instrument :

MSVOA_U

ClientSampleId :

RE-125D2-20181204DL

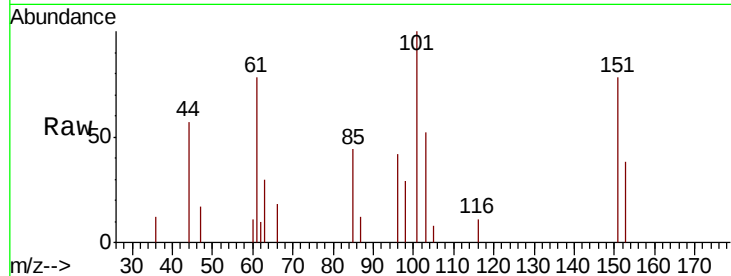
Tot Ion: 96 Resp: 875

Ion Ratio Lower Upper

96 100

61 184.2 146.4 219.6

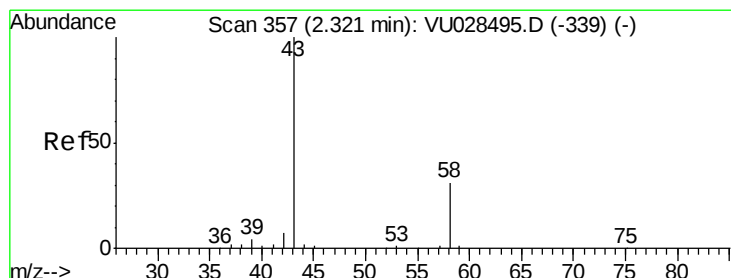
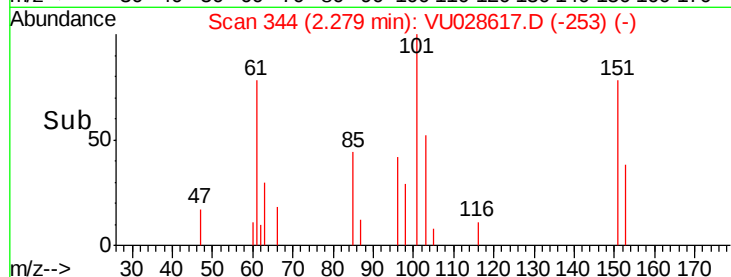
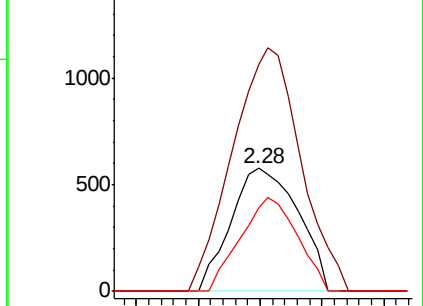
98 68.5 51.8 77.8



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: 0.541 ug/l

RT: 2.32 min Scan# 358

Delta R.T. 0.00 min

Lab File: VU028617.D

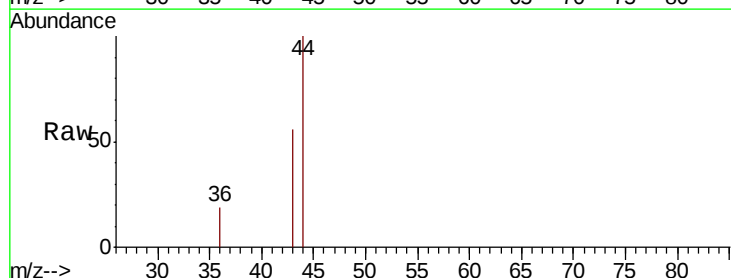
Acq: 11 Dec 2018 19:14

Tgt Ion: 43 Resp: 462

Ion Ratio Lower Upper

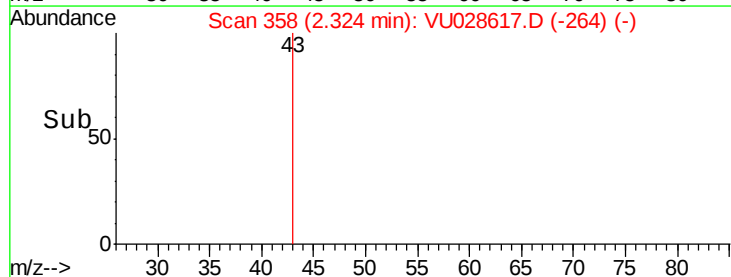
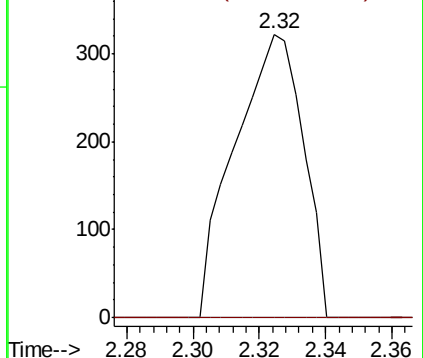
43 100

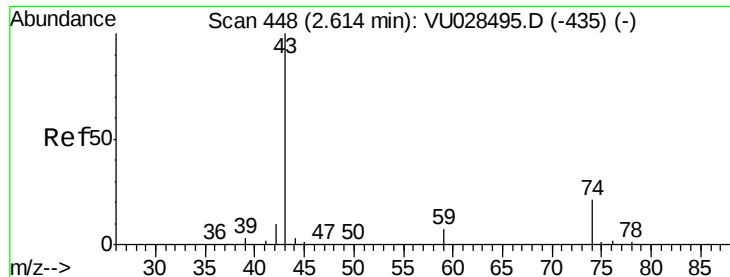
58 0.0 24.6 37.0#



Abundance Ion 43.00 (42.70 to 43.70): VU0

Ion 58.00 (57.70 to 58.70): VU0

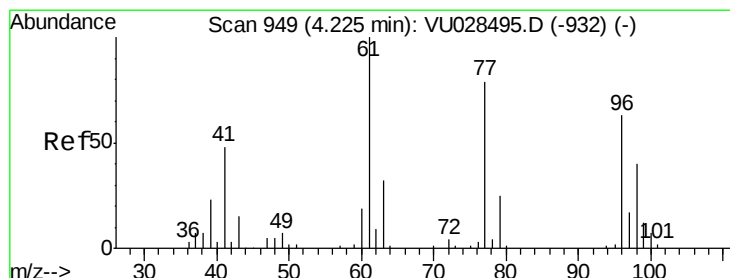
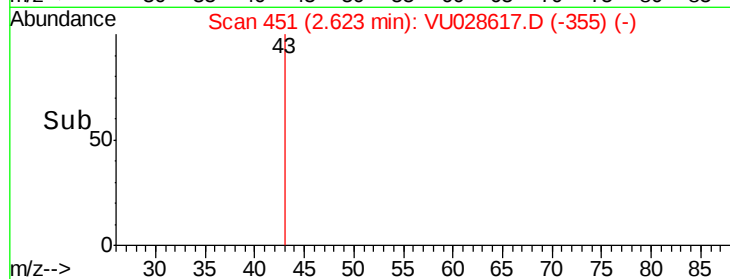
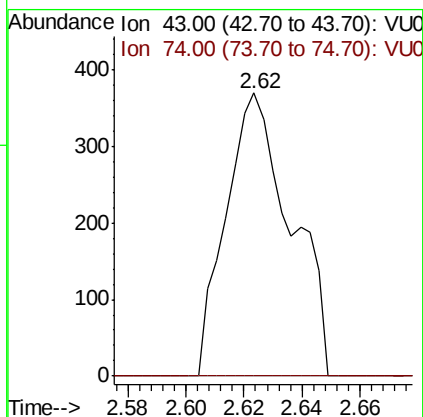
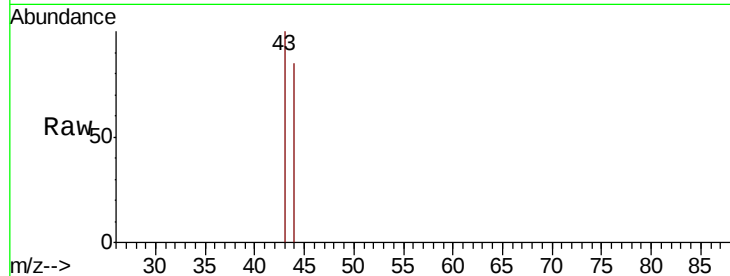




#18
Methvl Acetate
Concen: 0.259 ug/l
RT: 2.62 min Scan# 451
Delta R.T. 0.01 min
Lab File: VU028617.D
Acq: 11 Dec 2018 19:14

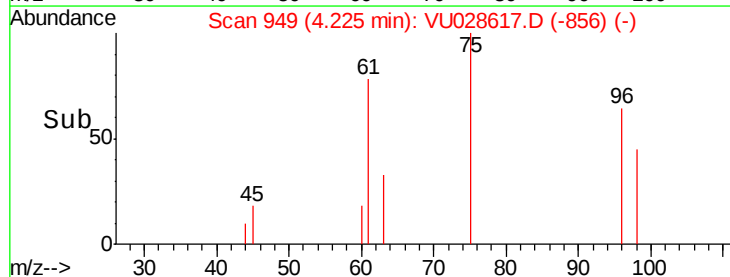
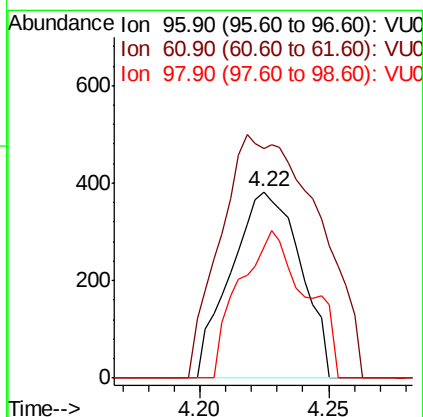
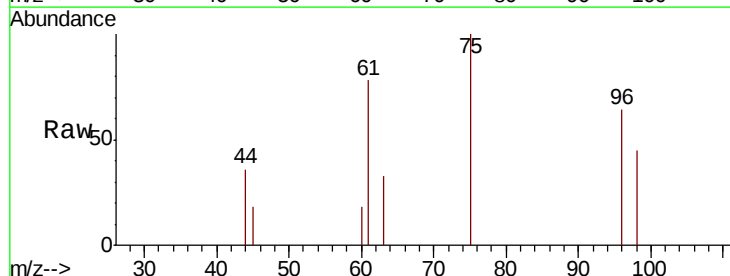
Instrument :
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ClientSampleId :
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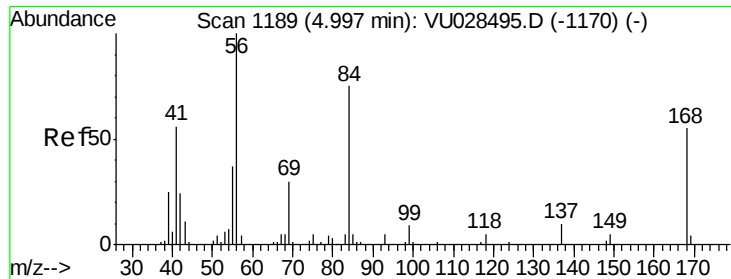
Tot Ion: 43 Resp: 574
Ion Ratio Lower Upper
43 100
74 0.0 16.4 24.6#



#27
cis-1,2-Dichloroethene
Concen: 0.591 ug/l
RT: 4.22 min Scan# 949
Delta R.T. -0.00 min
Lab File: VU028617.D
Acq: 11 Dec 2018 19:14

Tgt Ion: 96 Resp: 719
Ion Ratio Lower Upper
96 100
61 182.9 0.0 332.4
98 76.2 0.0 129.0

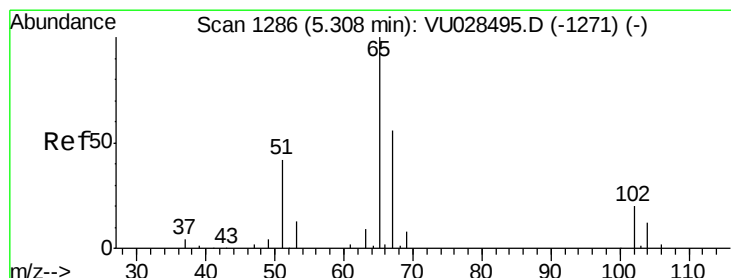
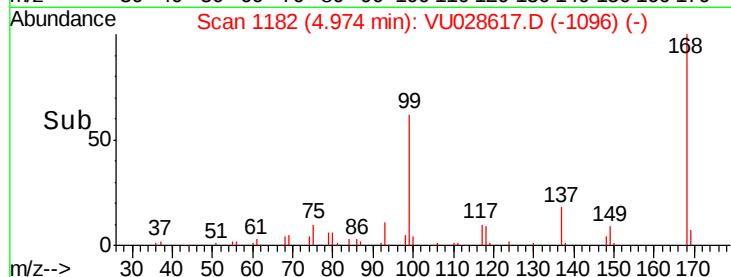
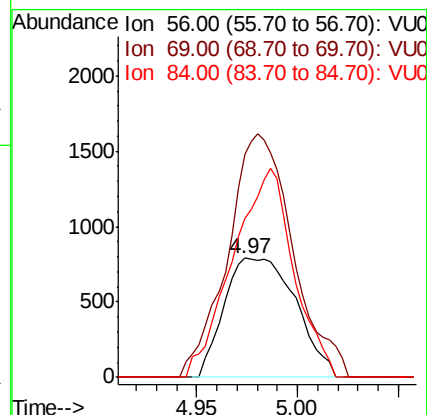
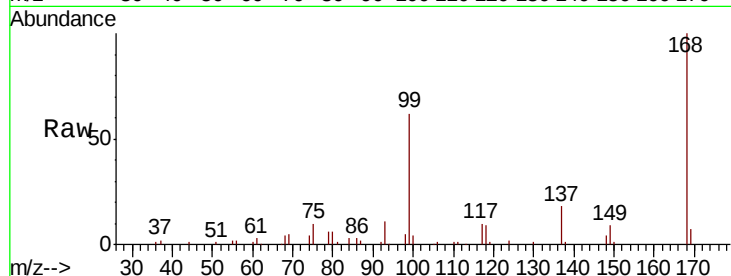




#31
Cyclohexane
Concen: Below Cal
RT: 4.97 min Scan# 1182
Delta R.T. -0.02 min
Lab File: VU028617.D
Acq: 11 Dec 2018 19:14

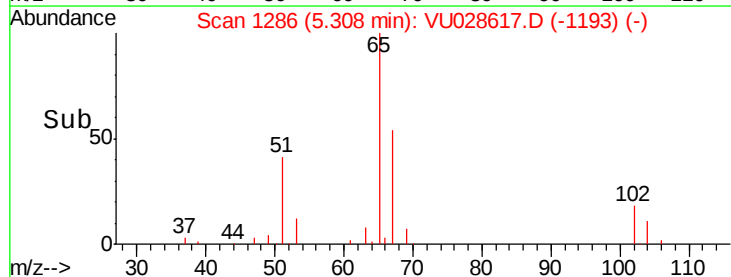
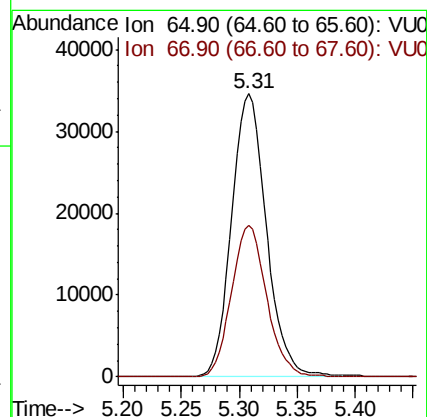
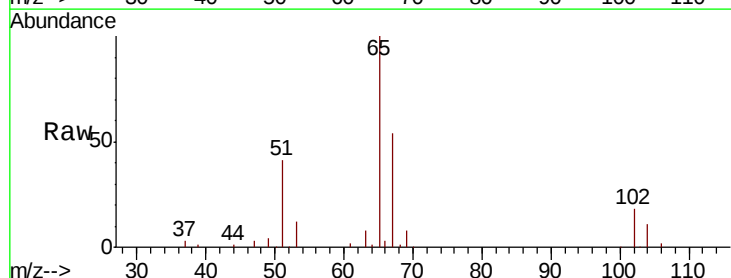
Instrument :
MSVOA_U
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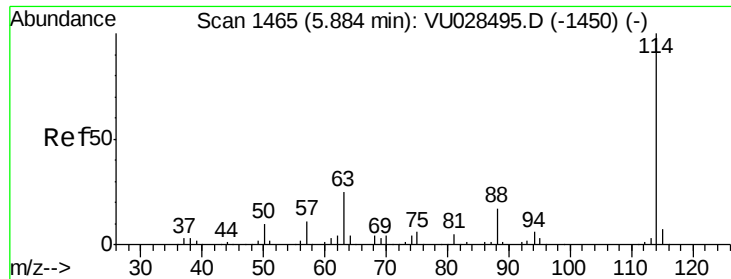
Tot Ion: 56 Resp: 1948
Ion Ratio Lower Upper
56 100
69 171.0 24.0 36.0#
84 133.8 59.7 89.5#



#33
1,2-Dichloroethane-d4
Concen: 54.929 ug/l
RT: 5.31 min Scan# 1286
Delta R.T. -0.00 min
Lab File: VU028617.D
Acq: 11 Dec 2018 19:14

Tgt Ion: 65 Resp: 71908
Ion Ratio Lower Upper
65 100
67 54.2 0.0 110.6

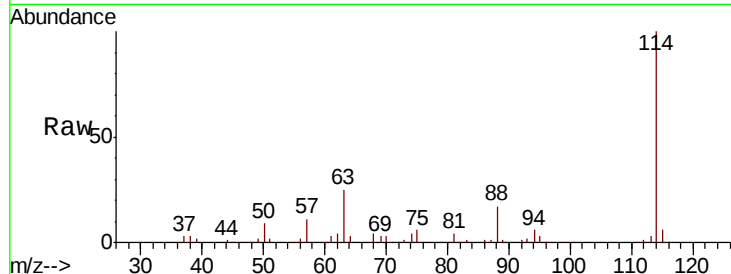




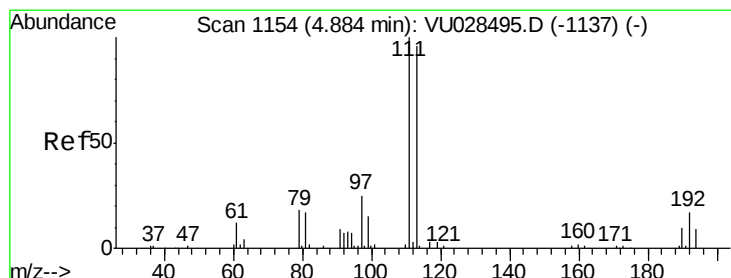
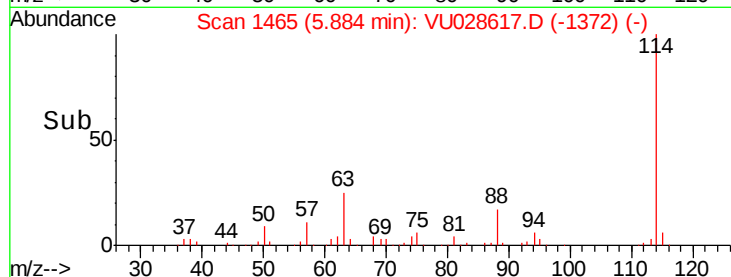
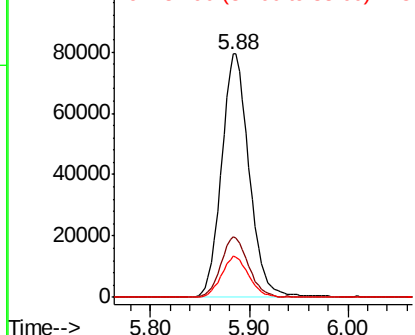
#34
 1,4-Difluorobenzene
 Concen: 50.000 ug/l
 RT: 5.88 min Scan# 1465
 Delta R.T. -0.00 min
 Lab File: VU028617.D
 Acq: 11 Dec 2018 19:14

Instrument :
 MSVOA_U
 ClientSampleId :
 RE-125D2-20181204DL

Tot Ion	Ratio	Lower	Upper
114	100		
63	24.7	0.0	49.2
88	16.7	0.0	33.4

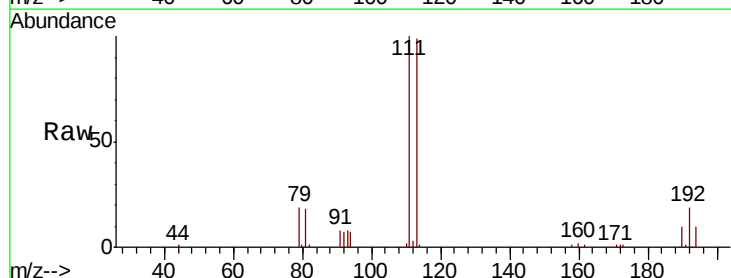


Abundance Ion 113.90 (113.60 to 114.60): V
 Ion 63.00 (62.70 to 63.70): VU0
 Ion 87.90 (87.60 to 88.60): VU0

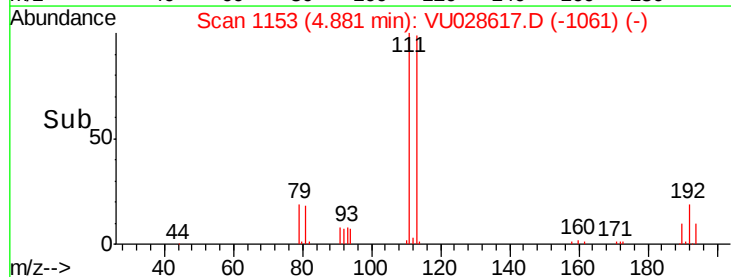
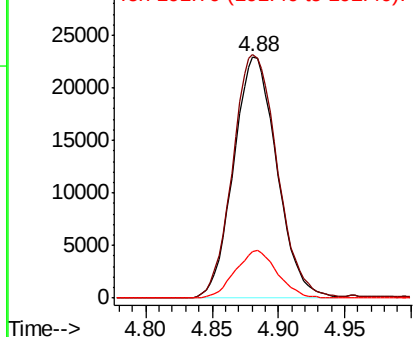


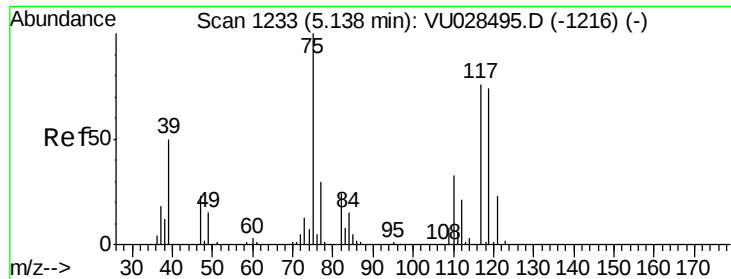
#35
 Dibromofluoromethane
 Concen: 52.972 ug/l
 RT: 4.88 min Scan# 1153
 Delta R.T. -0.00 min
 Lab File: VU028617.D
 Acq: 11 Dec 2018 19:14

Tgt Ion	Ratio	Lower	Upper
113	100		
111	103.8	83.4	125.0
192	19.3	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: 4.563 ug/l

RT: 4.98 min Scan# 1184

Delta R.T. -0.16 min

Lab File: VU028617.D

Acq: 11 Dec 2018 19:14

Instrument :

MSVOA_U

ClientSampleId :

RE-125D2-20181204DL

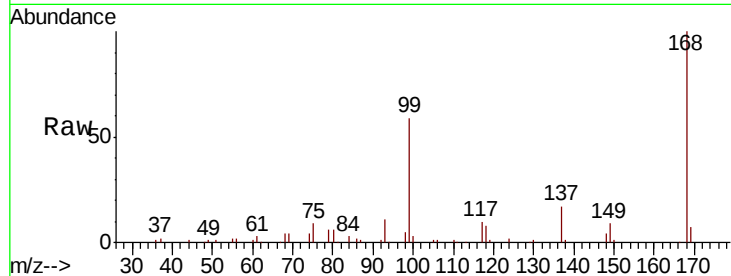
Tot Ion: 75 Resp: 7802

Ion Ratio Lower Upper

75 100

110 6.8 16.1 48.2#

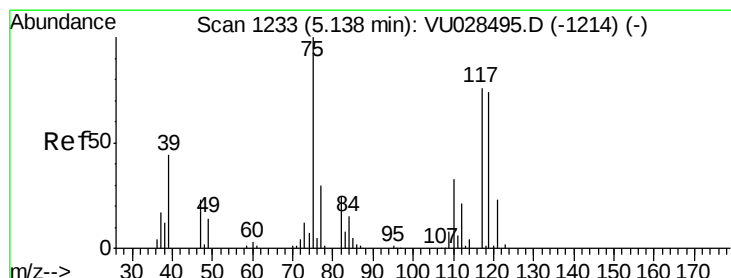
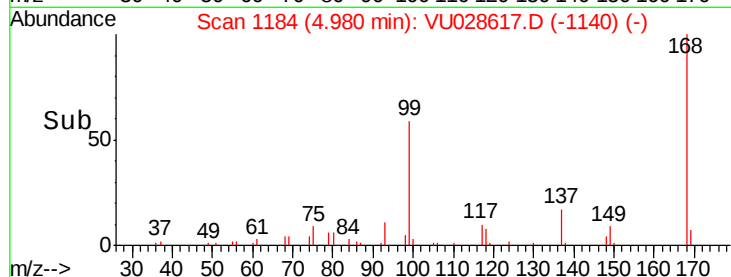
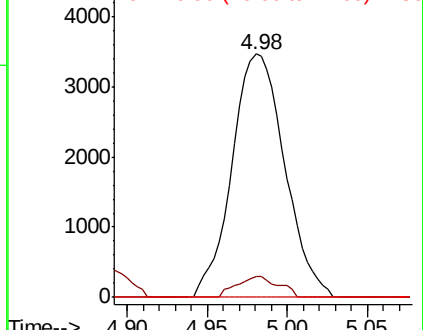
77 0.0 24.5 36.7#



Abundance Ion 74.90 (74.60 to 75.60): VU028617.D (-1140) (-)

Ion 109.90 (109.60 to 110.60): VU028617.D (-1140) (-)

Ion 76.90 (76.60 to 77.60): VU028617.D (-1140) (-)



#38

Carbon Tetrachloride

Concen: 6.274 ug/l

RT: 4.98 min Scan# 1184

Delta R.T. -0.16 min

Lab File: VU028617.D

Acq: 11 Dec 2018 19:14

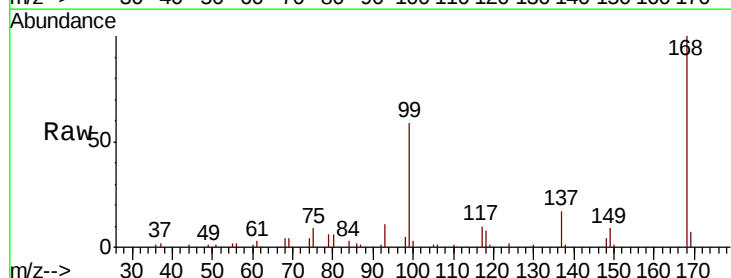
Tgt Ion: 117 Resp: 8647

Ion Ratio Lower Upper

117 100

119 5.1 77.6 116.4#

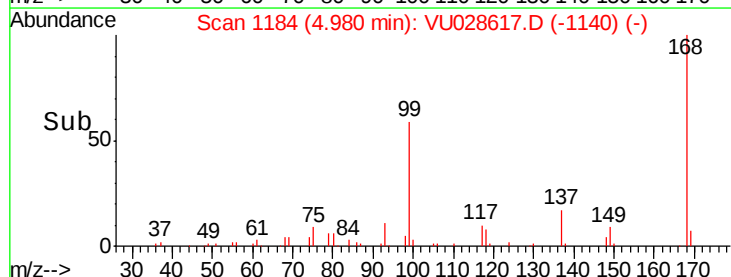
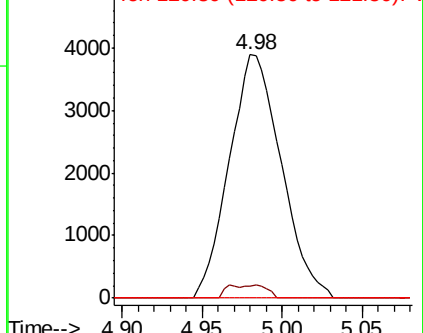
121 0.0 24.6 36.8#

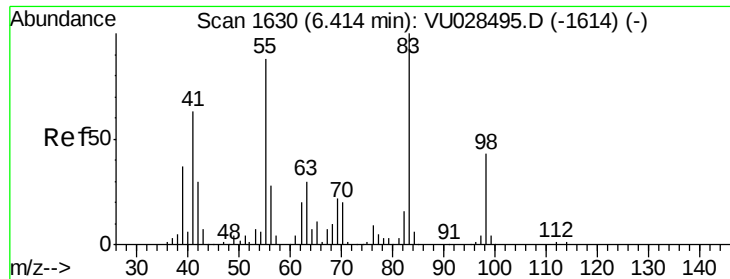


Abundance Ion 116.80 (116.50 to 117.50): VU028617.D (-1140) (-)

Ion 118.80 (118.50 to 119.50): VU028617.D (-1140) (-)

Ion 120.80 (120.50 to 121.50): VU028617.D (-1140) (-)





#39

Methvlcvclohexane

Concen: 0.317 ug/l

RT: 6.19 min Scan# 1559

Delta R.T. -0.23 min

Lab File: VU028617.D

Acq: 11 Dec 2018 19:14

Instrument :

MSVOA_U

ClientSampleId :

RE-125D2-20181204DL

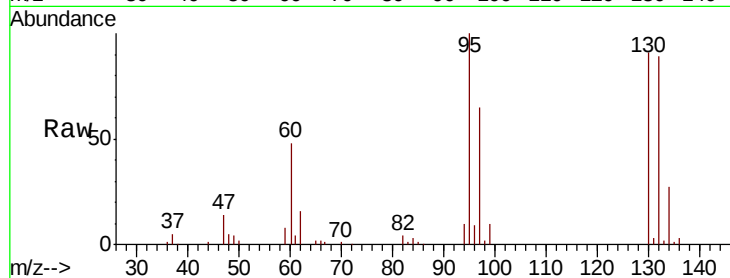
Tot Ion: 83 Resp: 662

Ion Ratio Lower Upper

83 100

55 0.0 70.2 105.2#

98 156.8 34.2 51.4#

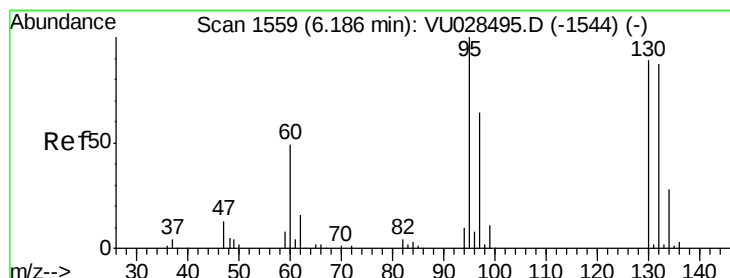
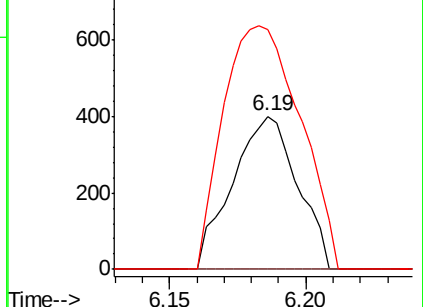
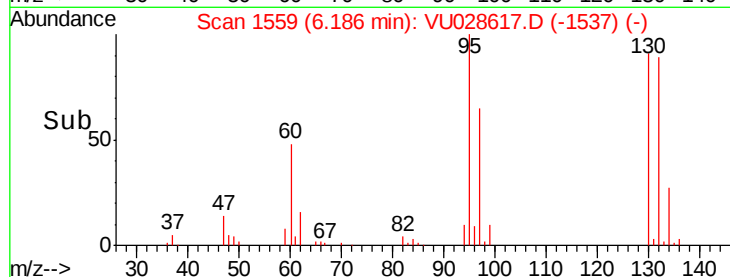


Abundance Ion 83.00 (82.70 to 83.70): VU0

Ion 55.00 (54.70 to 55.70): VU0

Ion 98.00 (97.70 to 98.70): VU0

Time-->



#44

Trichloroethene

Concen: 43.277 ug/l

RT: 6.19 min Scan# 1559

Delta R.T. -0.00 min

Lab File: VU028617.D

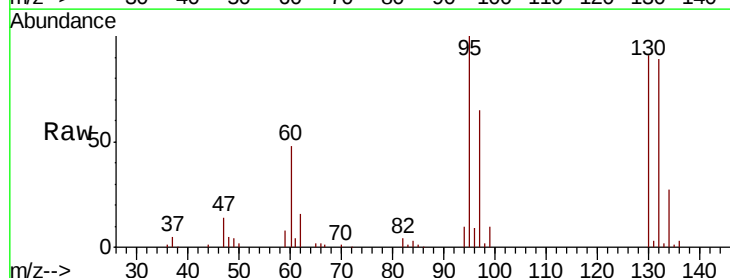
Acq: 11 Dec 2018 19:14

Tgt Ion:130 Resp: 48460

Ion Ratio Lower Upper

130 100

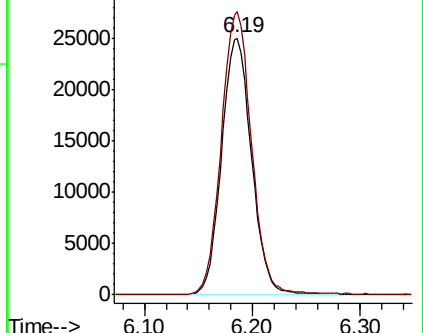
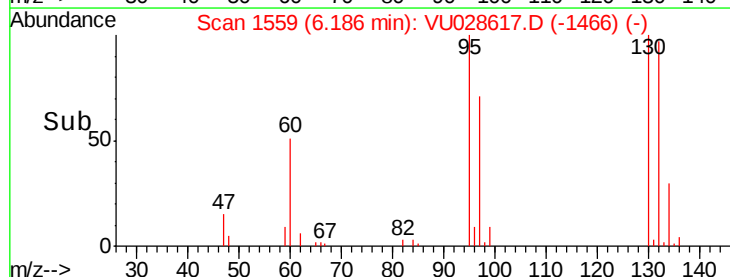
95 110.2 0.0 224.0

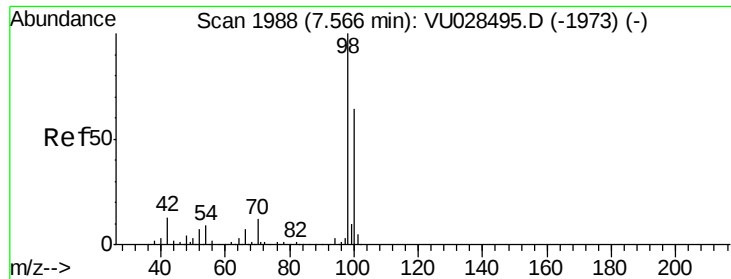


Abundance Ion 129.80 (129.50 to 130.50): V

Ion 94.90 (94.60 to 95.60): VU0

Time-->

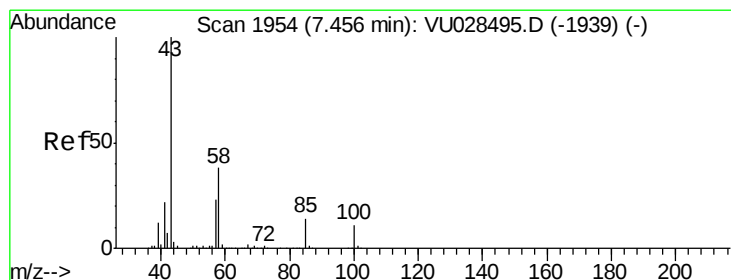
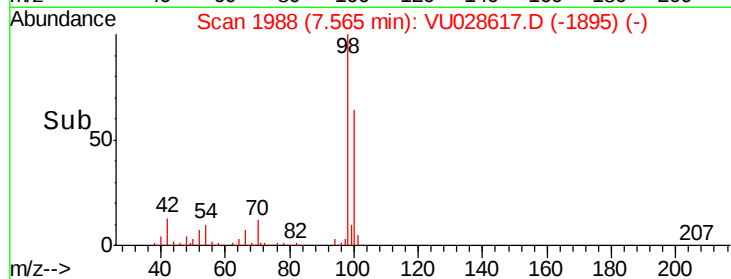
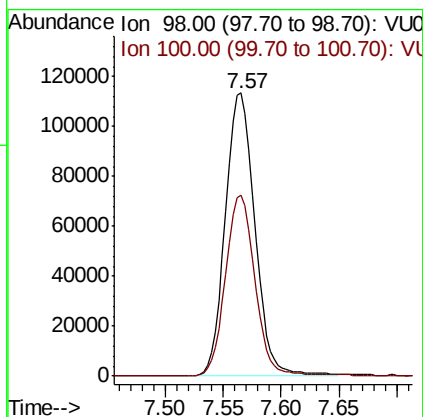
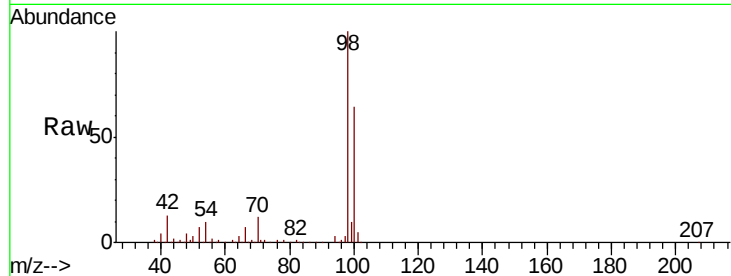




#50
Toluene-d8
Concen: 51.568 ug/l
RT: 7.57 min Scan# 1988
Delta R.T. -0.00 min
Lab File: VU028617.D
Acq: 11 Dec 2018 19:14

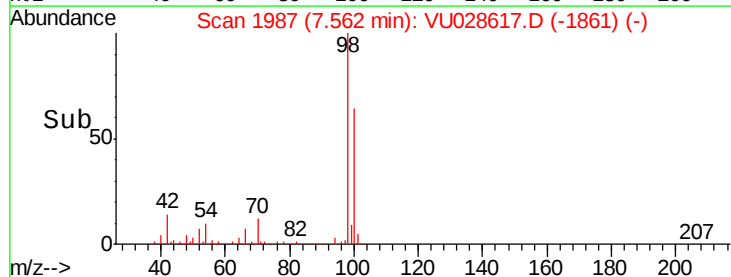
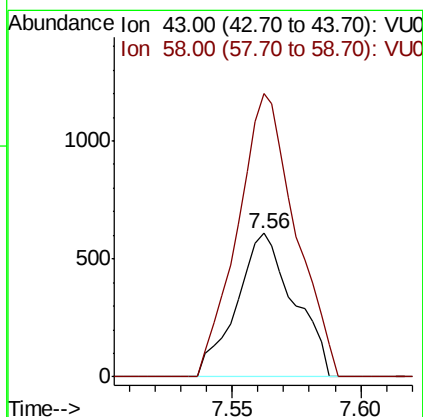
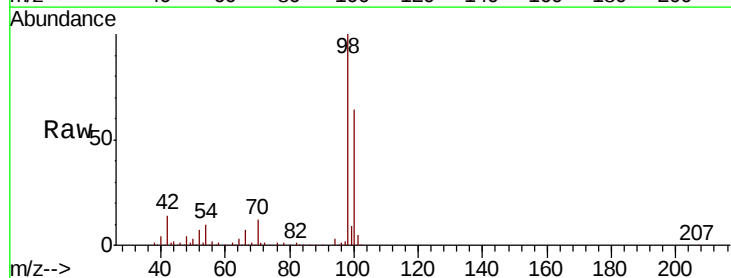
Instrument :
MSVOA_U
ClientSampleId :
RE-125D2-20181204DL

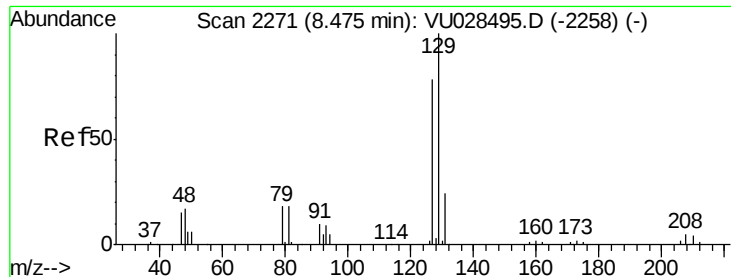
Tot Ion: 98 Resp: 200598
Ion Ratio Lower Upper
98 100
100 63.8 51.0 76.6



#51
4-Methyl-2-Pentanone
Concen: 0.429 ug/l
RT: 7.56 min Scan# 1987
Delta R.T. 0.11 min
Lab File: VU028617.D
Acq: 11 Dec 2018 19:14

Tgt Ion: 43 Resp: 946
Ion Ratio Lower Upper
43 100
58 198.6 30.2 45.2#





#60

Dibromochloromethane

Concen: 0.601 ug/l

RT: 8.22 min Scan# 2193

Delta R.T. -0.25 min

Lab File: VU028617.D

Acq: 11 Dec 2018 19:14

Instrument :

MSVOA_U

ClientSampleId :

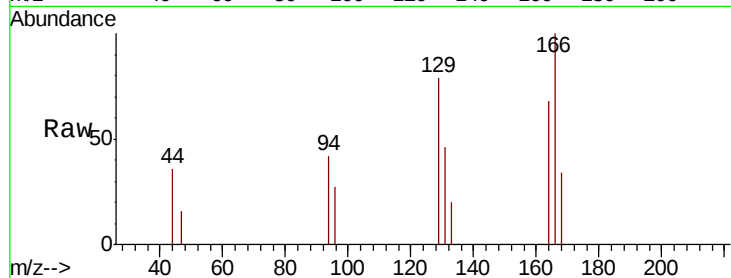
RE-125D2-20181204DL

Tot Ion:129 Resp: 689

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

600

500

400

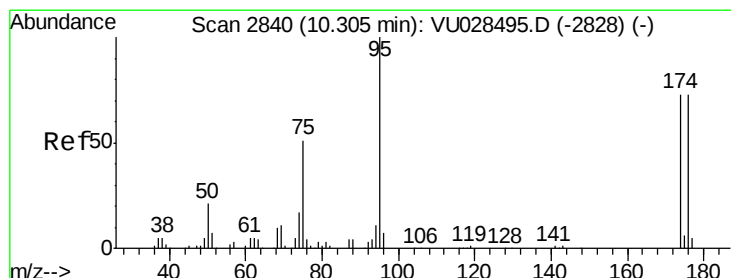
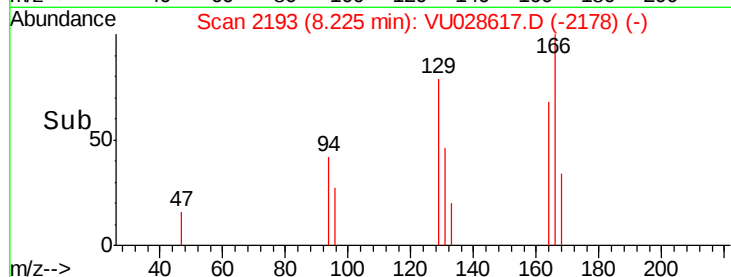
300

200

100

0

Time--> 8.18 8.20 8.22 8.24 8.26



#62

4-Bromofluorobenzene

Concen: 46.026 ug/l

RT: 10.30 min Scan# 2840

Delta R.T. -0.00 min

Lab File: VU028617.D

Acq: 11 Dec 2018 19:14

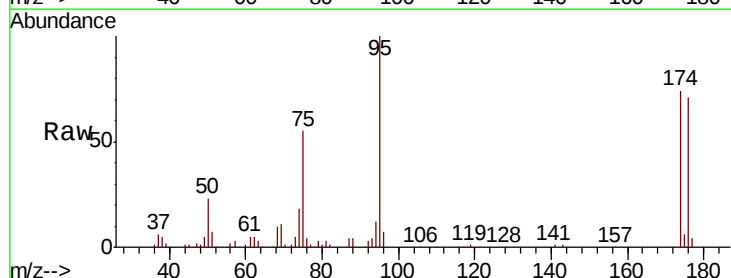
Tgt Ion: 95 Resp: 66918

Ion Ratio Lower Upper

95 100

174 75.2 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

50000

40000

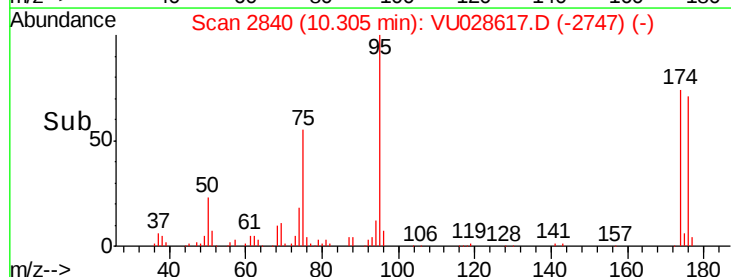
30000

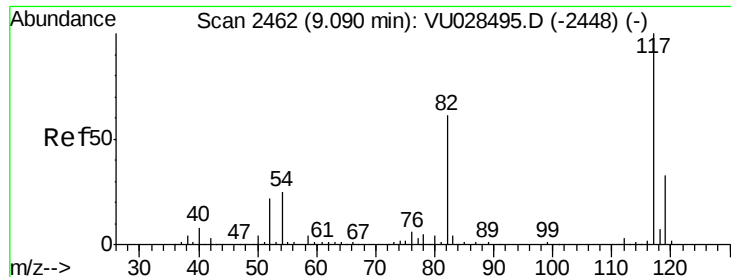
20000

10000

0

Time--> 10.30 10.40

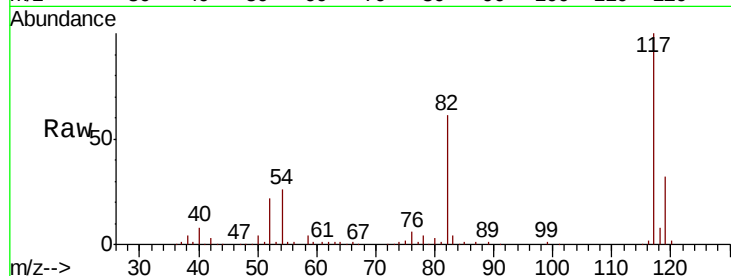




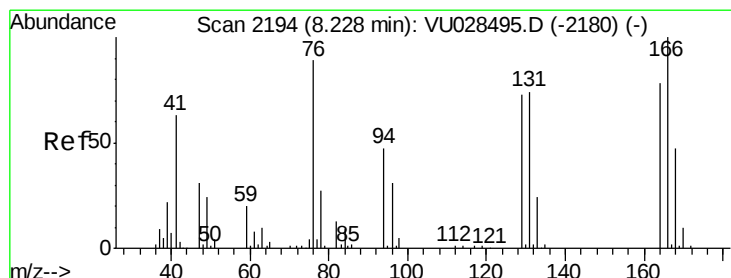
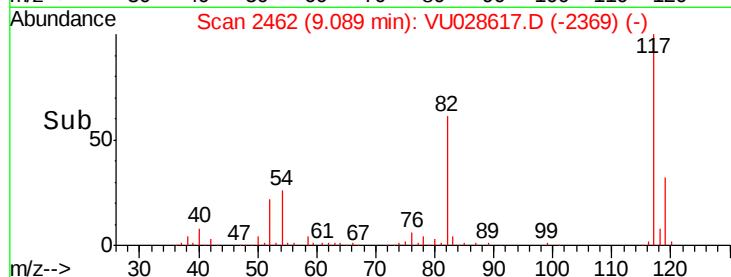
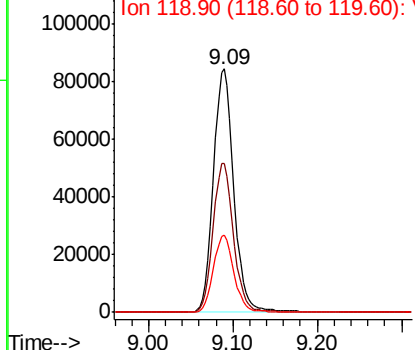
#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 9.09 min Scan# 2462
Delta R.T. -0.00 min
Lab File: VU028617.D
Acq: 11 Dec 2018 19:14

Instrument :
MSVOA_U
ClientSampleId :
RE-125D2-20181204DL

Tot Ion:117 Resp: 141652
Ion Ratio Lower Upper
117 100
82 61.3 48.9 73.3
119 31.5 26.2 39.4

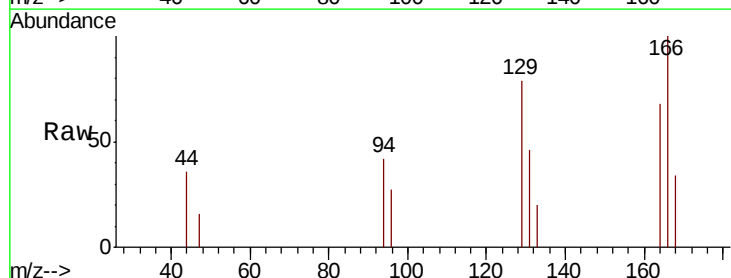


Abundance Ion 116.90 (116.60 to 117.60): V
Ion 82.00 (81.70 to 82.70): VU0
Ion 118.90 (118.60 to 119.60): V

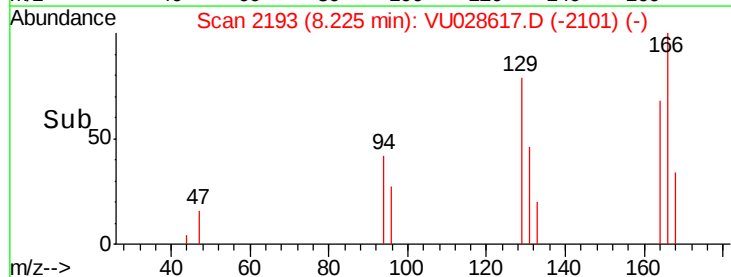
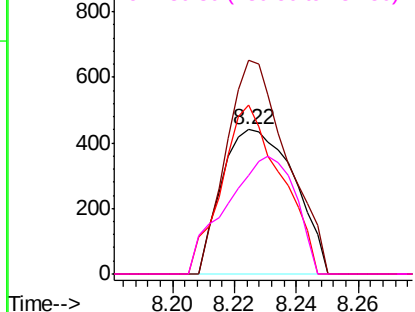


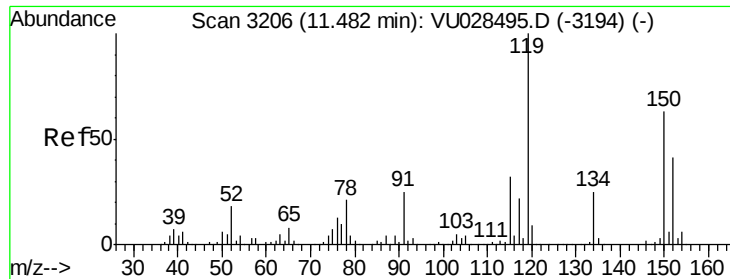
#64
Tetrachloroethene
Concen: 0.763 ug/l
RT: 8.22 min Scan# 2193
Delta R.T. -0.00 min
Lab File: VU028617.D
Acq: 11 Dec 2018 19:14

Tgt Ion:164 Resp: 721
Ion Ratio Lower Upper
164 100
166 147.8 101.9 152.9
129 116.6 74.9 112.3#
131 68.0 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: VU028617.D

Acq: 11 Dec 2018 19:14

Instrument :

MSVOA_U

ClientSampleId :

RE-125D2-20181204DL

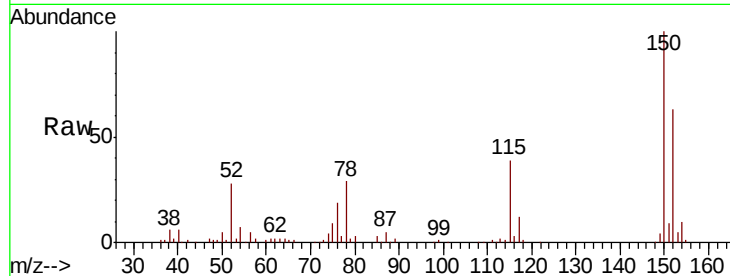
Tot Ion:152 Resp: 55734

Ion Ratio Lower Upper

152 100

115 61.2 42.7 128.1

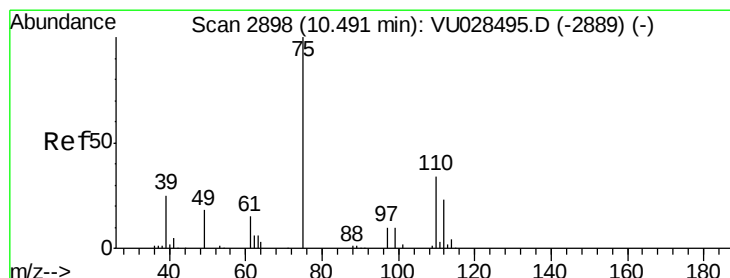
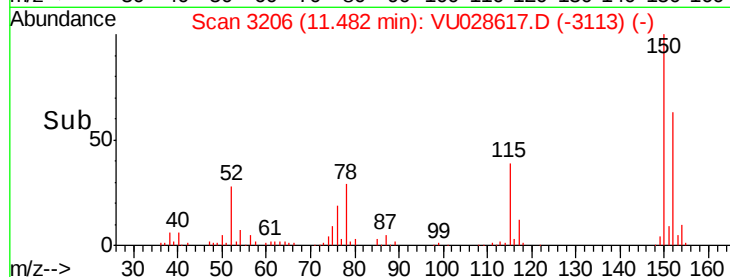
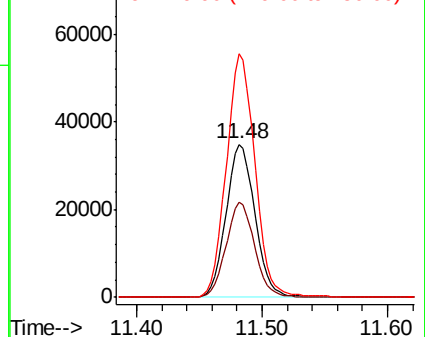
150 157.7 0.0 346.0



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: 25.368 ug/l

RT: 10.31 min Scan# 2841

Delta R.T. -0.18 min

Lab File: VU028617.D

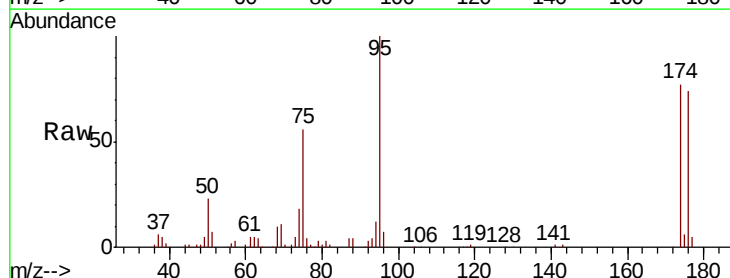
Acq: 11 Dec 2018 19:14

Tgt Ion: 75 Resp: 36103

Ion Ratio Lower Upper

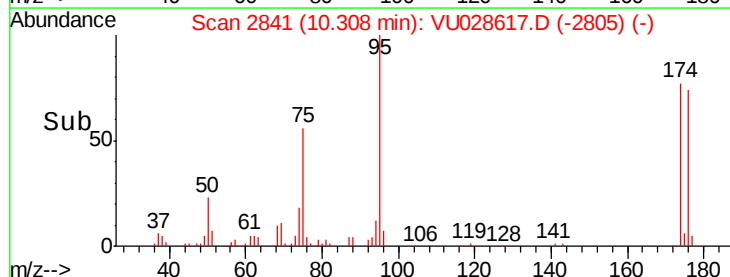
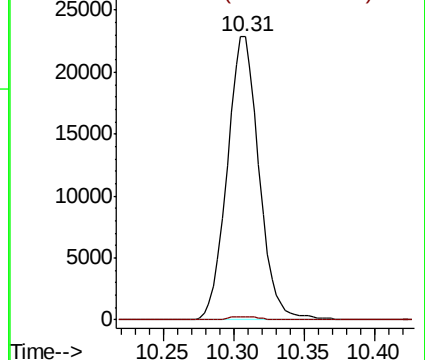
75 100

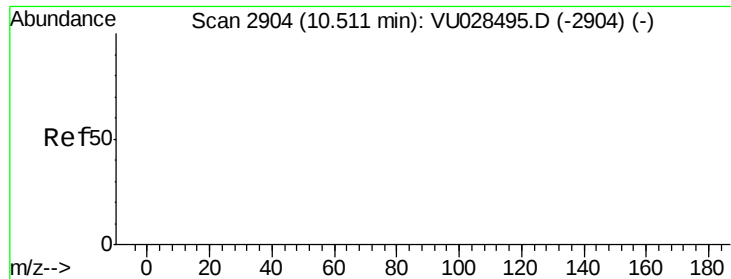
77 1.0 20.8 62.4#



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: 62.242 ug/l
 RT: 10.31 min Scan# 2841
 Delta R.T. -0.20 min
 Lab File: VU028617.D
 Acq: 11 Dec 2018 19:14

Instrument :
 MSVOA_U
 ClientSampleId :
 RE-125D2-20181204DL

Tot Ion	Ratio	Lower	Upper
75	100		
53	0.0	0.0	0.0
89	0.0	0.0	0.0

