

Data Path : Z:\VOASRV\HPCHEM1\MSVOA U\DATA\U121318\
 Data File : VU028618.D
 Acq On : 11 Dec 2018 19:38
 Operator : MD/SY
 Sample : J6325-05DL 4X
 Misc : 5.0mL/MSVOA U/WATER
 ALS Vial : 12 Sample Multiplier: 1

Instrument :
 MSVOA_U
 ClientSampleId :
 RE-125D1-20181204DL

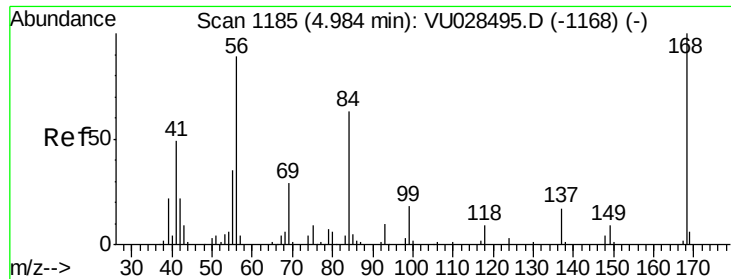
Quant Time: Dec 12 04:12:43 2018
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_U\METHOD\82U120618W.M
 Quant Title : SW846 8260
 QLast Update : Fri Dec 07 00:39:42 2018
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	4.98	168	86175	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	5.88	114	157569	50.00	ug/l	0.00
63) Chlorobenzene-d5	9.09	117	143167	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	11.48	152	55929	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	71796	54.59	ug/l	0.00
Spiked Amount			Recovery	=	109.18%	
35) Dibromofluoromethane	4.88	113	53616	54.07	ug/l	0.00
Spiked Amount			Recovery	=	108.14%	
50) Toluene-d8	7.57	98	202706	51.68	ug/l	0.00
Spiked Amount			Recovery	=	103.36%	
62) 4-Bromofluorobenzene	10.30	95	67642	46.14	ug/l	0.00
Spiked Amount			Recovery	=	92.28%	

Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
3) Chloromethane	1.33	50	1570	0.739	ug/l #	88
4) Vinyl Chloride	1.29	62	1395	0.910	ug/l #	43
9) 1,1,2-Trichlorotrifluoroet	2.28	101	1797	1.864	ug/l	93
11) Tert butyl alcohol	2.83	59	205	0.700	ug/l #	73
12) 1,1-Dichloroethene	2.29	96	487	0.508	ug/l	95
16) Acetone	2.32	43	1339	1.560	ug/l	92
18) Methyl Acetate	2.62	43	467	0.210	ug/l #	56
24) 1,1-Dichloroethane	3.45	63	751	0.325	ug/l #	85
27) cis-1,2-Dichloroethene	4.23	96	1144	0.936	ug/l	91
31) Cyclohexane	4.99	56	2004	Below Cal	#	1
36) 1,1-Dichloropropene	4.98	75	7713	4.473	ug/l #	50
38) Carbon Tetrachloride	4.99	117	8994	6.472	ug/l #	14
39) Methylcyclohexane	6.18	83	603	0.287	ug/l #	1
44) Trichloroethene	6.19	130	47656	42.205	ug/l	96
49) 1,4-Dioxane	6.63	88	64	2.312	ug/l #	19
51) 4-Methyl-2-Pentanone	7.56	43	920	0.414	ug/l #	1
60) Dibromochloromethane	8.22	129	1437	1.242	ug/l #	10
64) Tetrachloroethene	8.23	164	1534	1.606	ug/l	91
76) 1,2,3-Trichloropropane	10.30	75	35759	25.039	ug/l #	35
81) trans-1,4-Dichloro-2-buten	10.30	75	35759	61.441	ug/l #	100

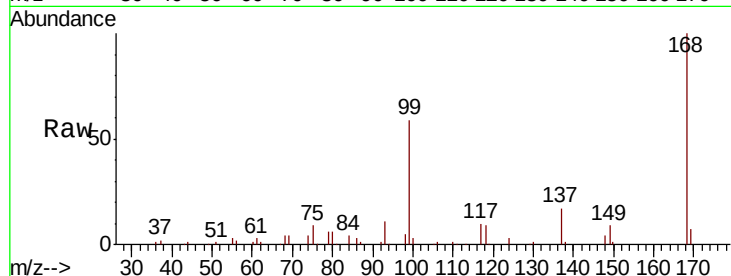
(#) = qualifier out of range (m) = manual integration (+) = signals summed



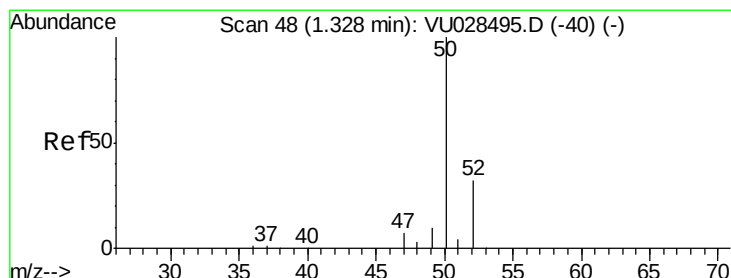
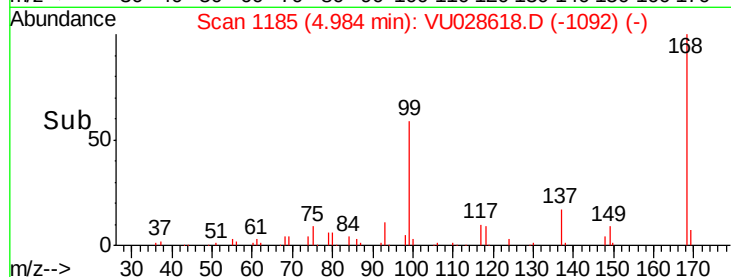
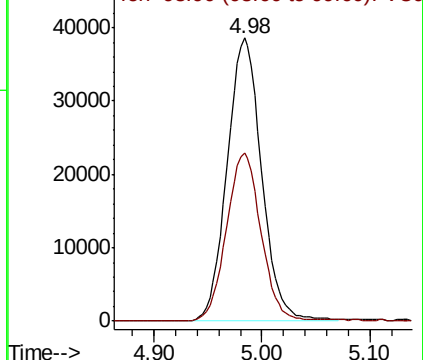
#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 4.98 min Scan# 1185
Delta R.T. -0.00 min
Lab File: VU028618.D
Acq: 11 Dec 2018 19:38

Instrument :
MSVOA_U
ClientSampleId :
RE-125D1-20181204DL

Tot Ion:168 Resp: 86175
Ion Ratio Lower Upper
168 100
99 59.3 46.6 69.8

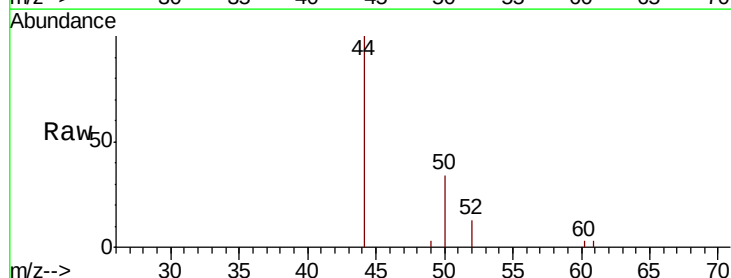


Abundance Ion 167.90 (167.60 to 168.60): VU028495.D (-1168) (-)
Ion 98.90 (98.60 to 99.60): VU028495.D (-1168) (-)

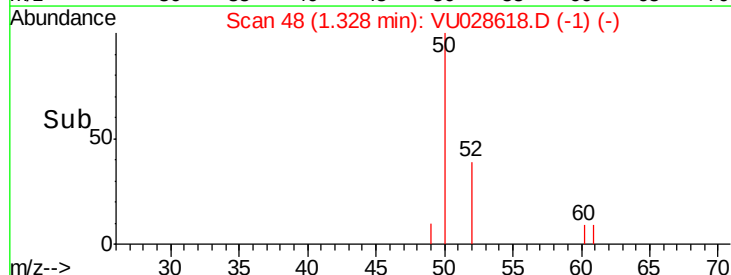
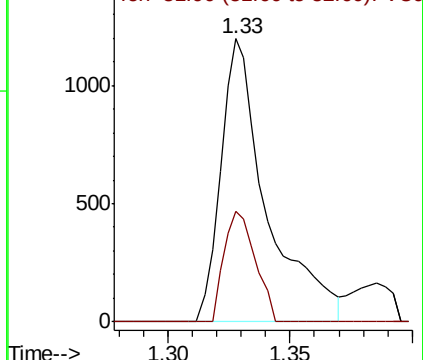


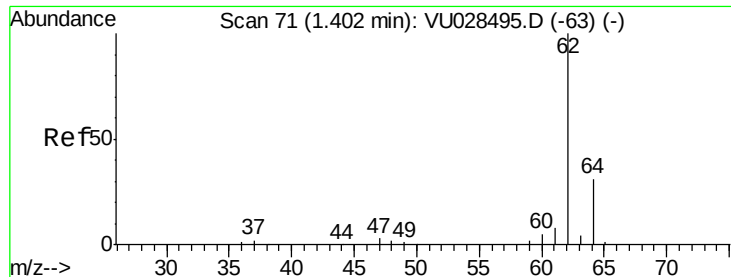
#3
Chloromethane
Concen: 0.739 ug/l
RT: 1.33 min Scan# 48
Delta R.T. -0.00 min
Lab File: VU028618.D
Acq: 11 Dec 2018 19:38

Tgt Ion: 50 Resp: 1570
Ion Ratio Lower Upper
50 100
52 38.8 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) (-)





#4

Vinyl Chloride

Concen: 0.910 ug/l

RT: 1.29 min Scan# 35

Delta R.T. -0.12 min

Lab File: VU028618.D

Acq: 11 Dec 2018 19:38

Instrument :

MSVOA_U

ClientSampleID :

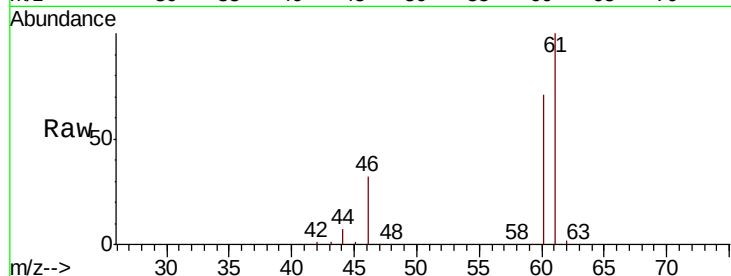
RE-125D1-20181204DL

Tot Ion: 62 Resp: 1395

Ion Ratio Lower Upper

62 100

64 0.0 25.1 37.7#



Abundance Ion 61.90 (61.60 to 62.60): VU028618.D (-1) (-)

Ion 63.90 (63.60 to 64.60): VU028618.D (-1) (-)

1.29

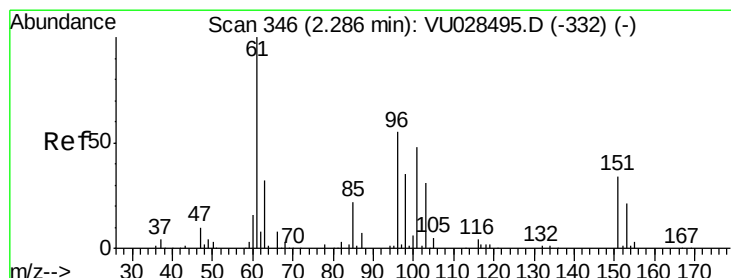
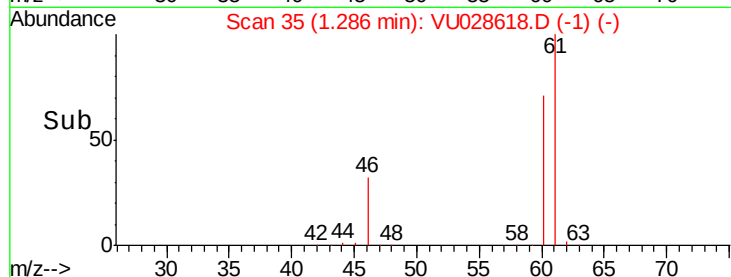
1500

1000

500

0

Time-->



#9

1,1,2-Trichlorotrifluoroethane

Concen: 1.864 ug/l

RT: 2.28 min Scan# 345

Delta R.T. -0.00 min

Lab File: VU028618.D

Acq: 11 Dec 2018 19:38

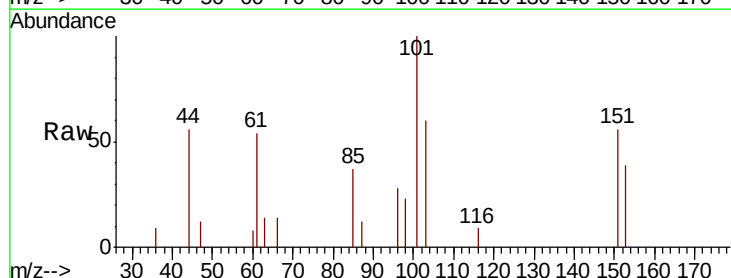
Tgt Ion: 101 Resp: 1797

Ion Ratio Lower Upper

101 100

85 39.4 36.4 54.6

151 67.7 58.2 87.2



Abundance Ion 100.90 (100.60 to 101.60): VU028618.D (-253) (-)

Ion 84.90 (84.60 to 85.60): VU028618.D (-253) (-)

Ion 150.80 (150.50 to 151.50): VU028618.D (-253) (-)

2.28

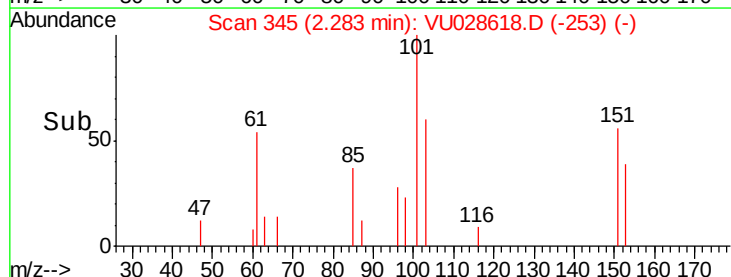
1500

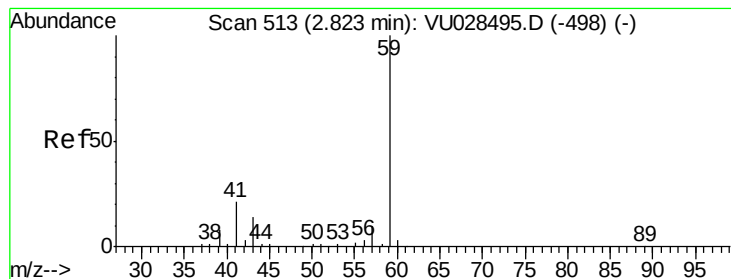
1000

500

0

Time-->



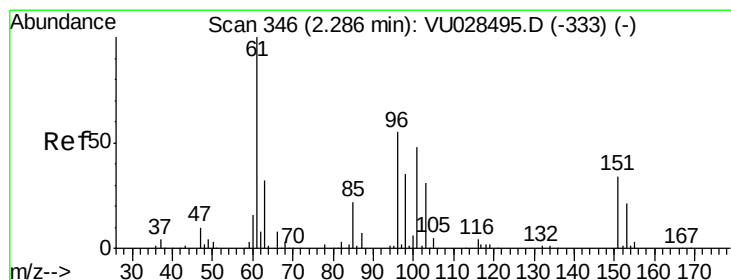
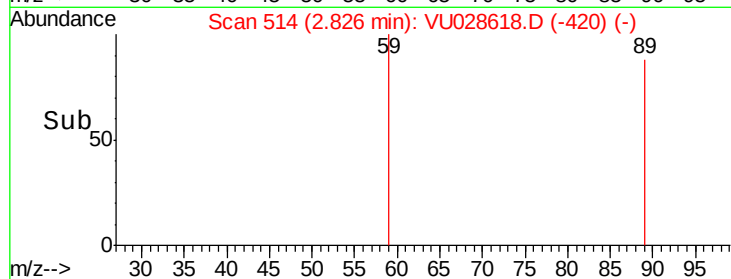
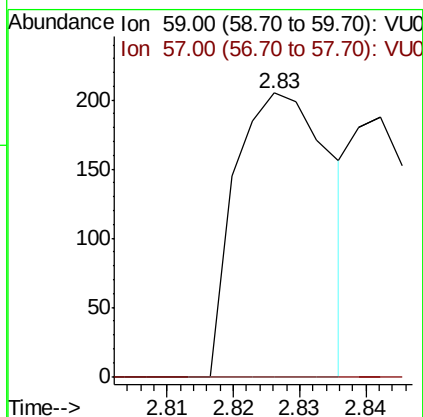
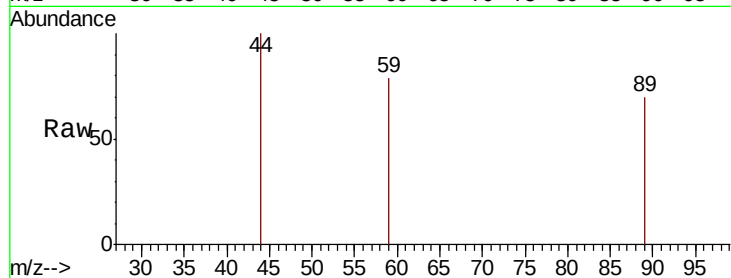


#11

Tert butyl alcohol
Concen: 0.700 ug/l
RT: 2.83 min Scan# 514
Delta R.T. 0.00 min
Lab File: VU028618.D
Acq: 11 Dec 2018 19:38

Instrument :
MSVOA_U
ClientSampleId :
RE-125D1-20181204DL

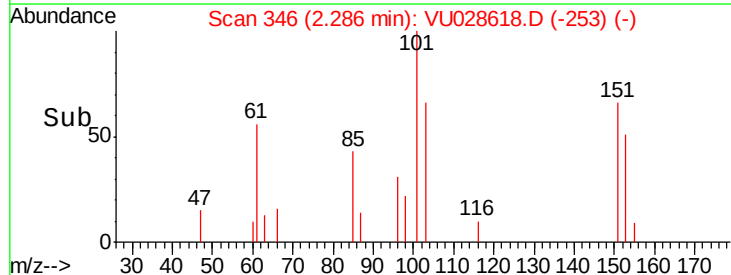
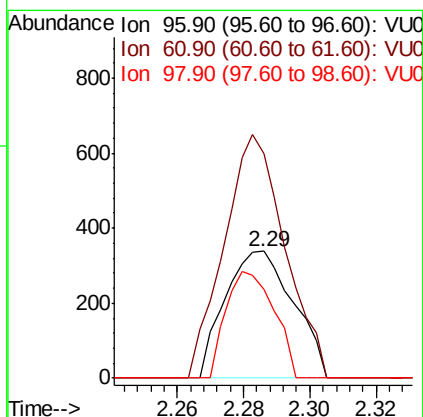
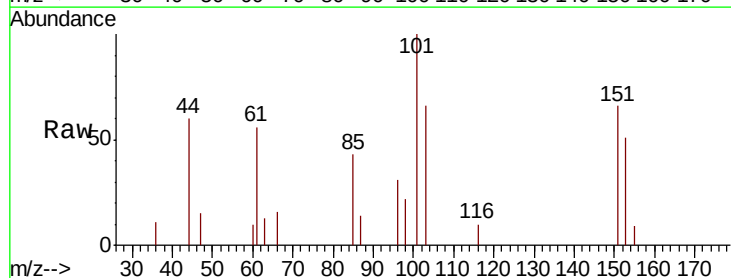
Tot Ion: 59 Resp: 205
Ion Ratio Lower Upper
59 100
57 0.0 8.0 12.0#

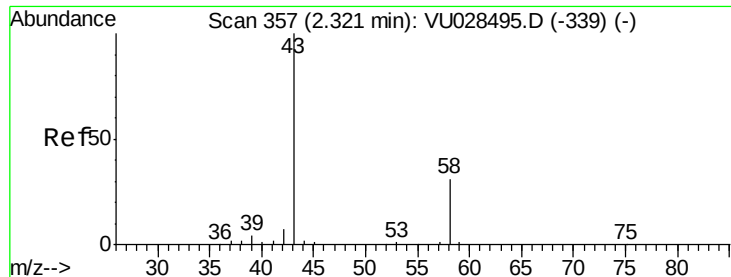


#12

1,1-Dichloroethene
Concen: 0.508 ug/l
RT: 2.29 min Scan# 346
Delta R.T. -0.00 min
Lab File: VU028618.D
Acq: 11 Dec 2018 19:38

Tgt Ion: 96 Resp: 487
Ion Ratio Lower Upper
96 100
61 177.2 146.4 219.6
98 70.4 51.8 77.8





#16

Acetone

Concen: 1.560 ug/l

RT: 2.32 min Scan# 357

Delta R.T. -0.00 min

Lab File: VU028618.D

Acq: 11 Dec 2018 19:38

Instrument :

MSVOA_U

ClientSampleId :

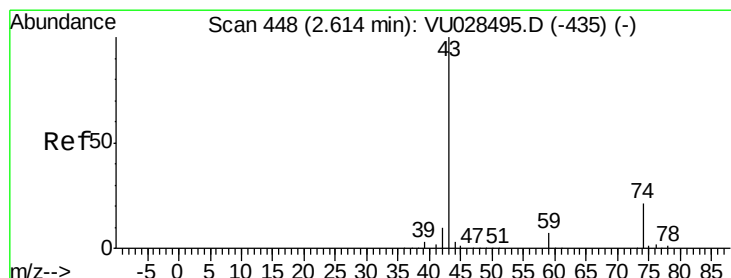
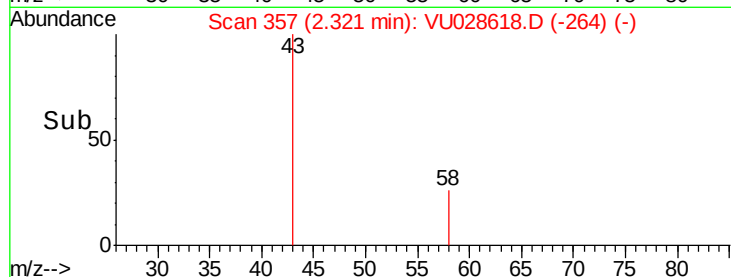
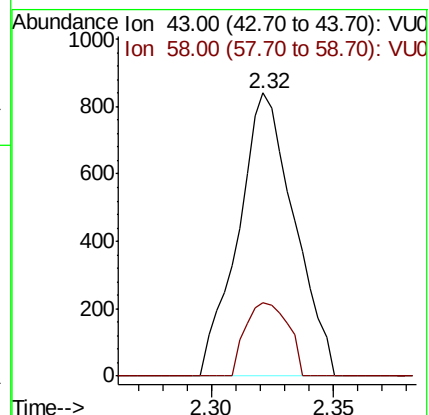
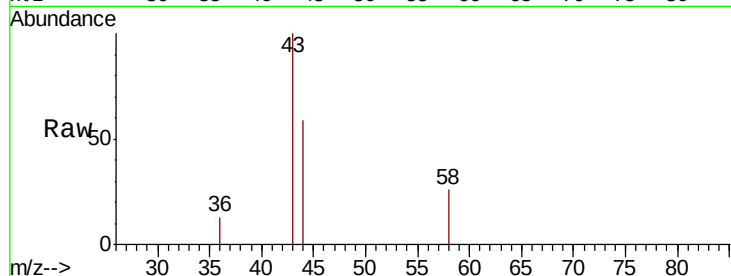
RE-125D1-20181204DL

Tot Ion: 43 Resp: 1339

Ion Ratio Lower Upper

43 100

58 26.2 24.6 37.0



#18

Methyl Acetate

Concen: 0.210 ug/l

RT: 2.62 min Scan# 451

Delta R.T. 0.01 min

Lab File: VU028618.D

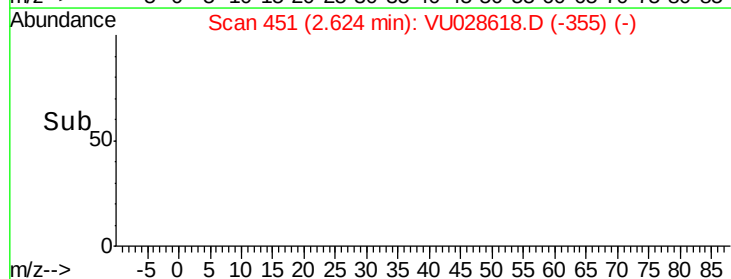
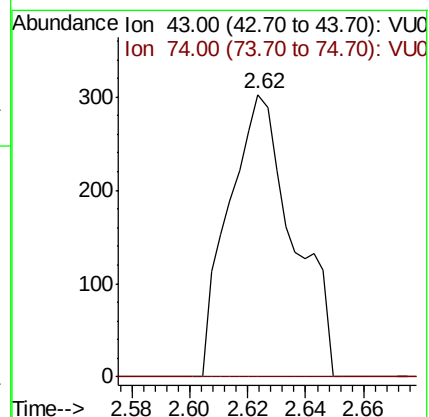
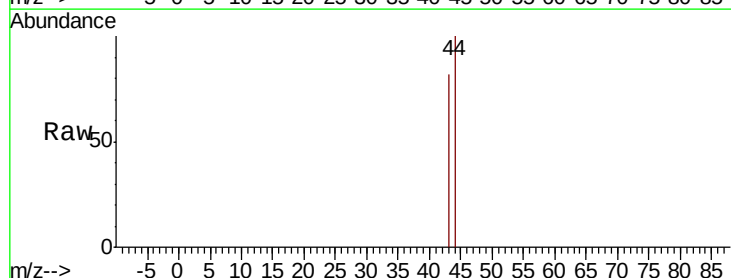
Acq: 11 Dec 2018 19:38

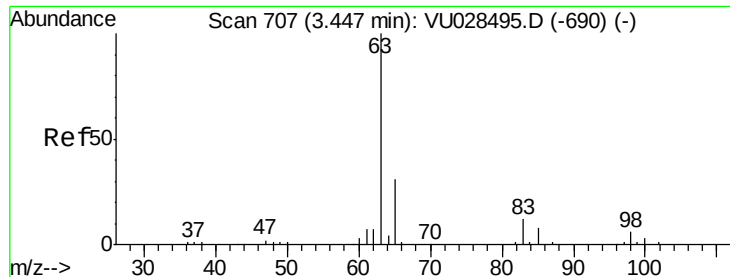
Tgt Ion: 43 Resp: 467

Ion Ratio Lower Upper

43 100

74 0.0 16.4 24.6#

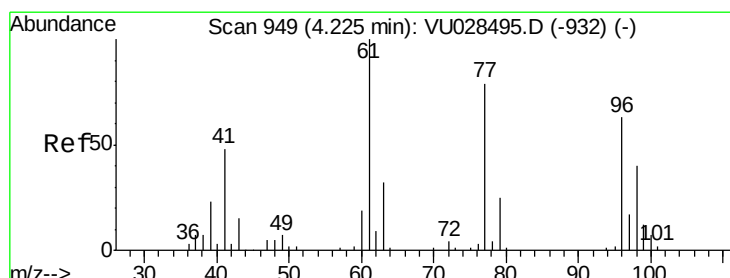
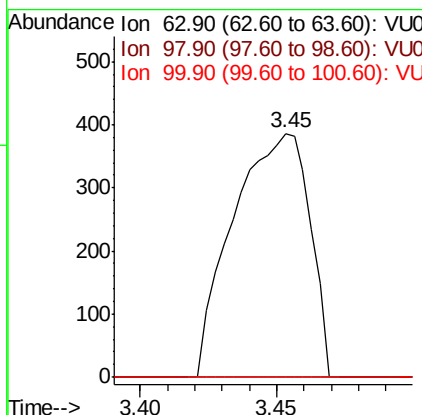
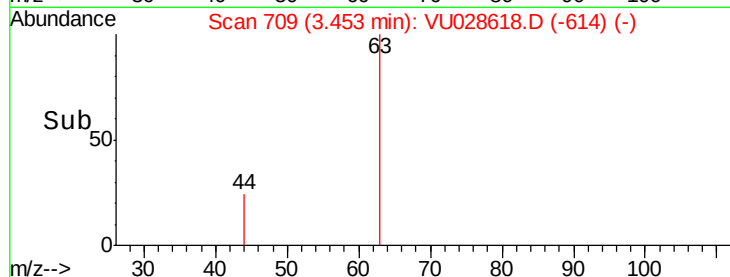
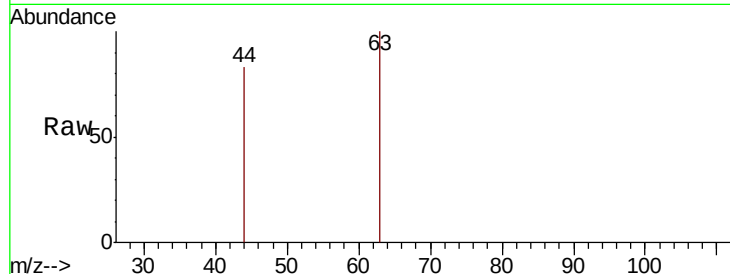




#24
 1,1-Dichloroethane
 Concen: 0.325 ug/l
 RT: 3.45 min Scan# 709
 Delta R.T. 0.01 min
 Lab File: VU028618.D
 Acq: 11 Dec 2018 19:38

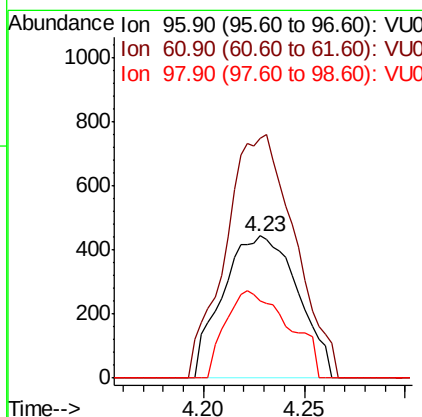
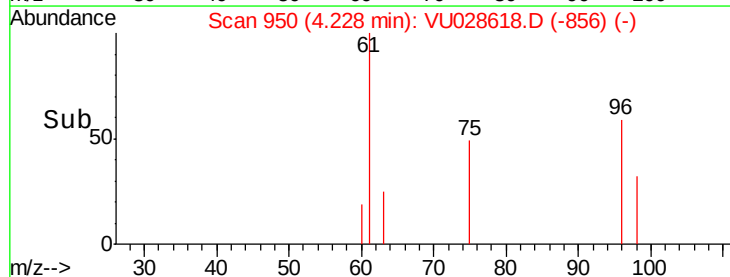
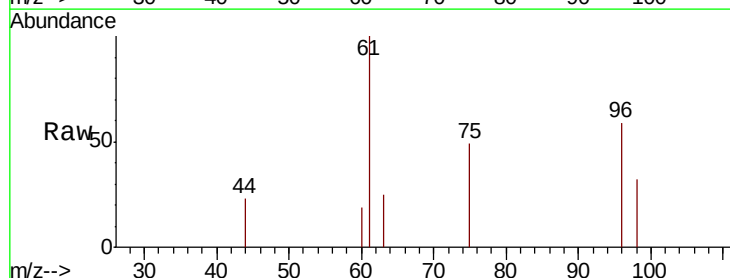
Instrument :
 MSVOA_U
 ClientSampleId :
 RE-125D1-20181204DL

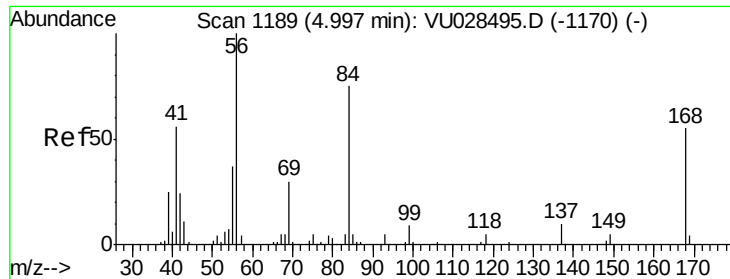
Tot Ion:	63	Resp:	751
Ion	Ratio	Lower	Upper
63	100		
98	0.0	3.0	9.2#
100	0.0	1.7	5.1#



#27
 cis-1,2-Dichloroethene
 Concen: 0.936 ug/l
 RT: 4.23 min Scan# 950
 Delta R.T. 0.00 min
 Lab File: VU028618.D
 Acq: 11 Dec 2018 19:38

Tgt Ion:	96	Resp:	1144
Ion	Ratio	Lower	Upper
96	100		
61	158.5	0.0	332.4
98	52.0	0.0	129.0

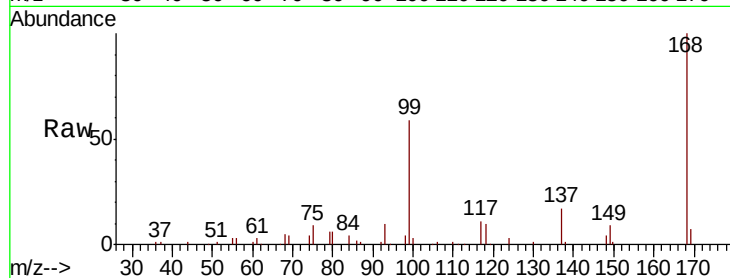




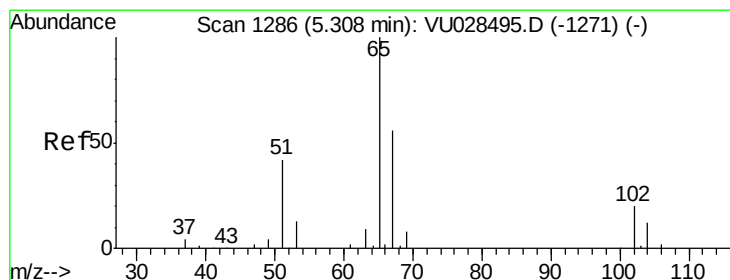
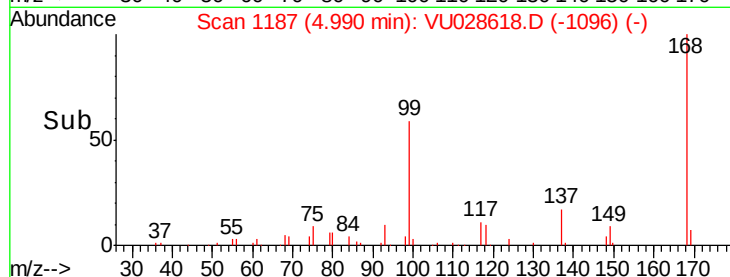
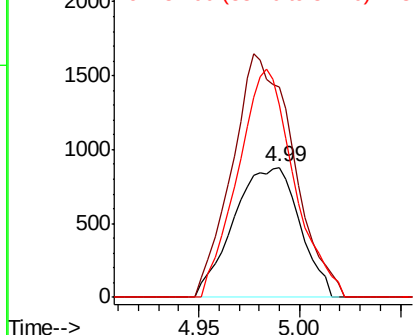
#31
Cyclohexane
Concen: Below Cal
RT: 4.99 min Scan# 1187
Delta R.T. -0.01 min
Lab File: VU028618.D
Acq: 11 Dec 2018 19:38

Instrument :
MSVOA_U
ClientSampleId :
RE-125D1-20181204DL

Tot Ion: 56 Resp: 2004
Ion Ratio Lower Upper
56 100
69 162.0 24.0 36.0#
84 148.2 59.7 89.5#

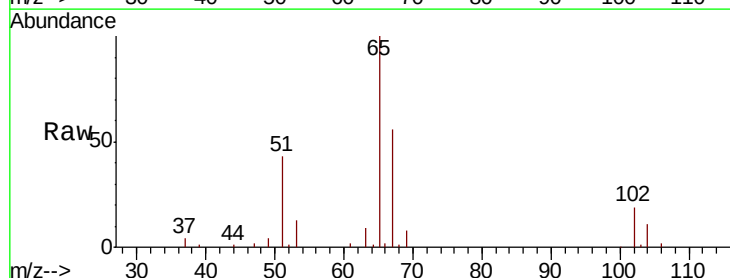


Abundance Ion 56.00 (55.70 to 56.70): VU0
Ion 69.00 (68.70 to 69.70): VU0
Ion 84.00 (83.70 to 84.70): VU0

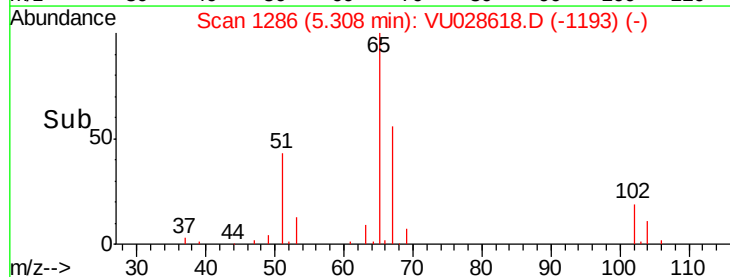
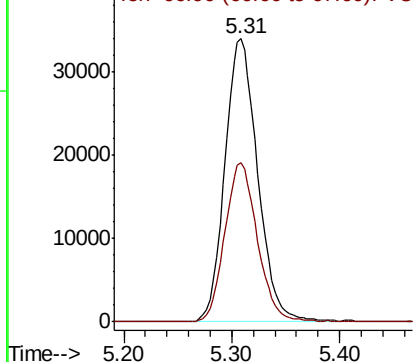


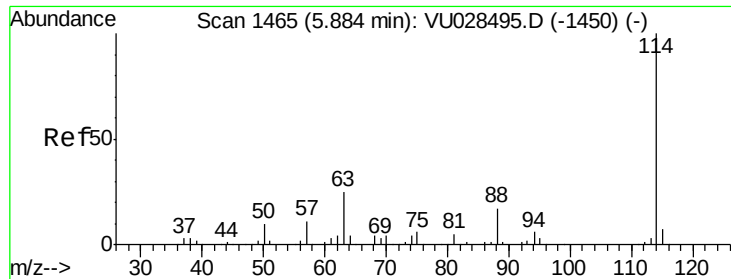
#33
1,2-Dichloroethane-d4
Concen: 54.594 ug/l
RT: 5.31 min Scan# 1286
Delta R.T. -0.00 min
Lab File: VU028618.D
Acq: 11 Dec 2018 19:38

Tgt Ion: 65 Resp: 71796
Ion Ratio Lower Upper
65 100
67 55.8 0.0 110.6



Abundance Ion 64.90 (64.60 to 65.60): VU0
Ion 66.90 (66.60 to 67.60): VU0

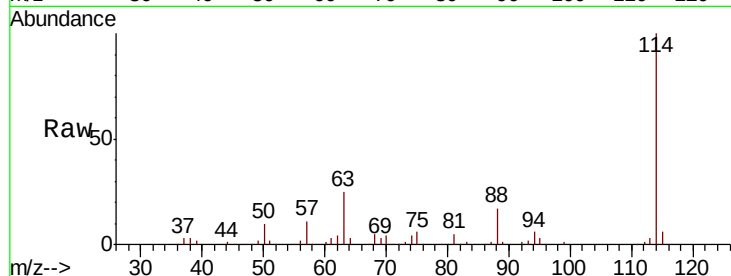




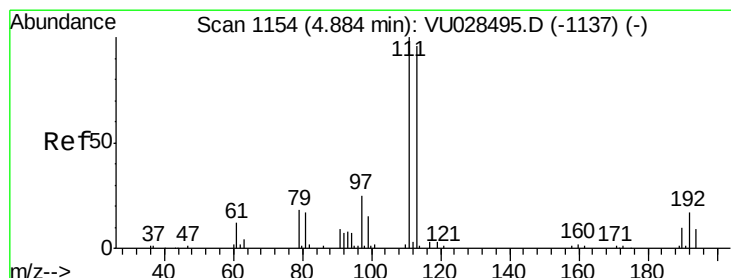
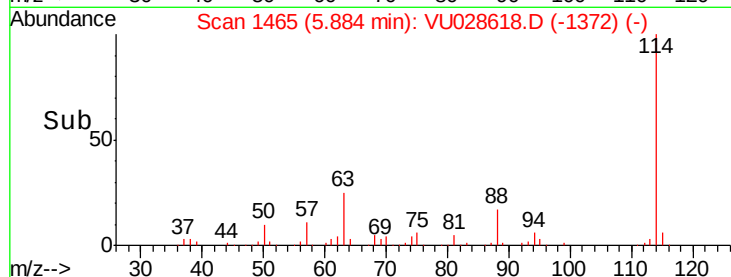
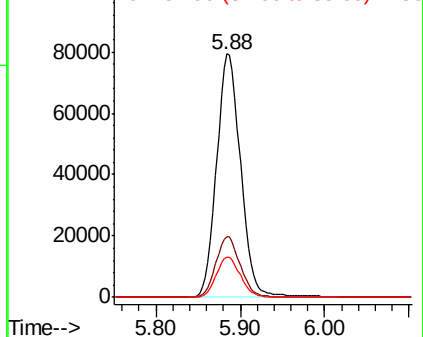
#34
 1,4-Difluorobenzene
 Concen: 50.000 ug/l
 RT: 5.88 min Scan# 1465
 Delta R.T. -0.00 min
 Lab File: VU028618.D
 Acq: 11 Dec 2018 19:38

Instrument :
 MSVOA_U
 ClientSampleId :
 RE-125D1-20181204DL

Tot Ion:114 Resp: 157569
 Ion Ratio Lower Upper
 114 100
 63 25.0 0.0 49.2
 88 16.6 0.0 33.4

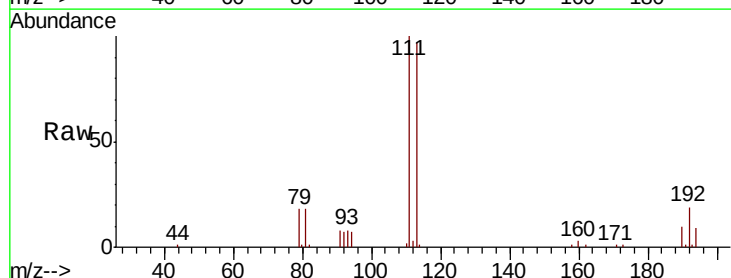


Abundance Ion 113.90 (113.60 to 114.60): V
 Ion 63.00 (62.70 to 63.70): VU0
 Ion 87.90 (87.60 to 88.60): VU0

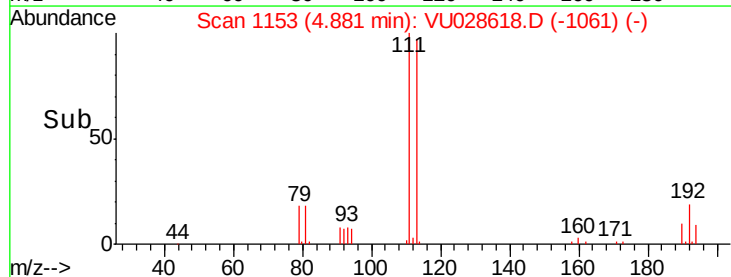
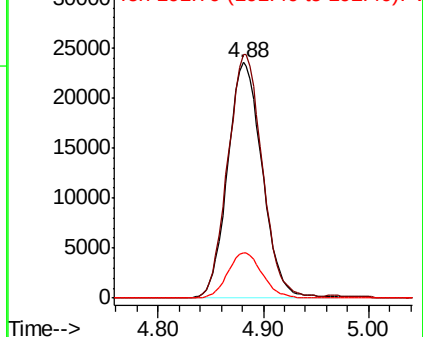


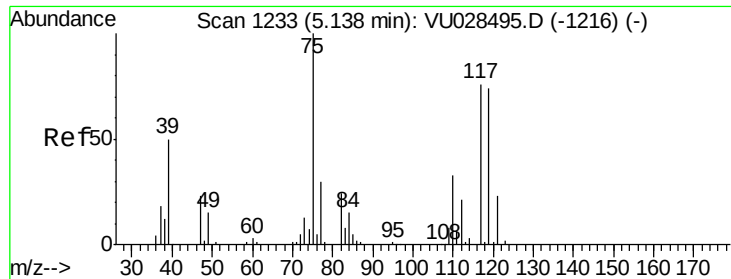
#35
 Dibromofluoromethane
 Concen: 54.071 ug/l
 RT: 4.88 min Scan# 1153
 Delta R.T. -0.00 min
 Lab File: VU028618.D
 Acq: 11 Dec 2018 19:38

Tgt Ion:113 Resp: 53616
 Ion Ratio Lower Upper
 113 100
 111 103.2 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

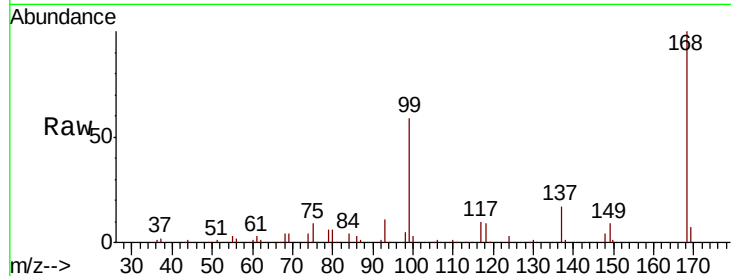




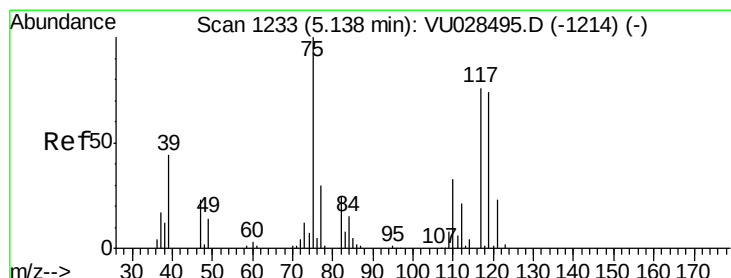
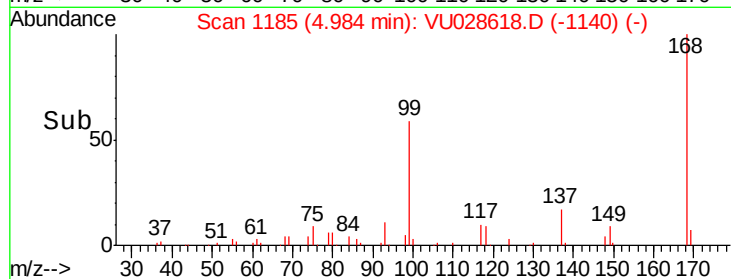
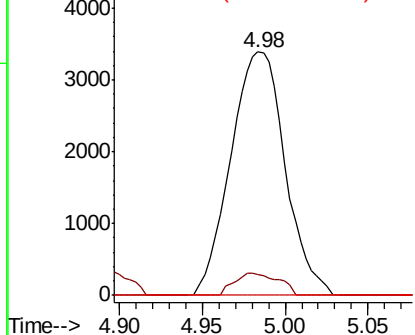
#36
 1,1-Dichloropropene
 Concen: 4.473 ug/l
 RT: 4.98 min Scan# 1185
 Delta R.T. -0.15 min
 Lab File: VU028618.D
 Acq: 11 Dec 2018 19:38

Instrument :
 MSVOA_U
 ClientSampleId :
 RE-125D1-20181204DL

Tot Ion: 75 Resp: 7713
 Ion Ratio Lower Upper
 75 100
 110 7.3 16.1 48.2#
 77 0.0 24.5 36.7#

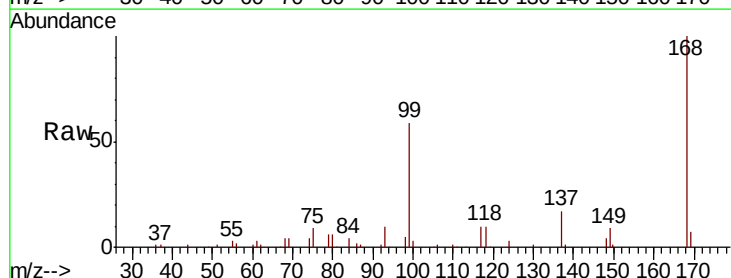


Abundance Ion 74.90 (74.60 to 75.60): VU0
 Ion 109.90 (109.60 to 110.60): V
 Ion 76.90 (76.60 to 77.60): VU0

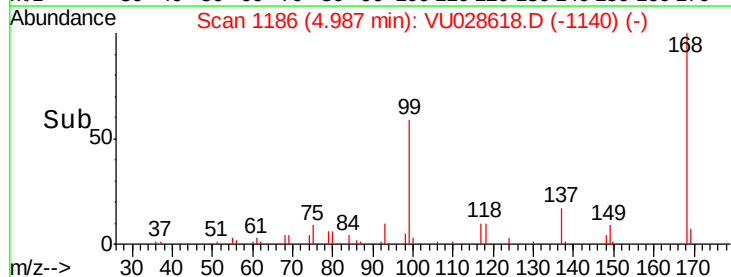
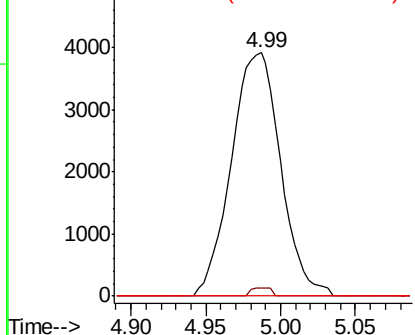


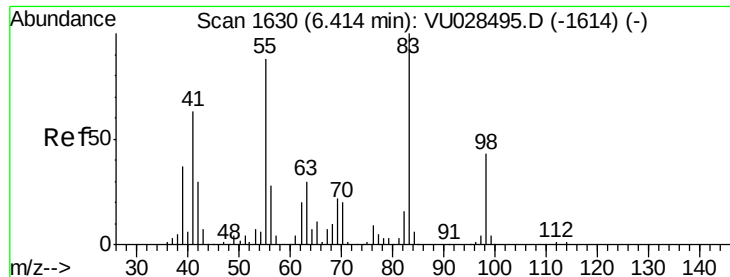
#38
 Carbon Tetrachloride
 Concen: 6.472 ug/l
 RT: 4.99 min Scan# 1186
 Delta R.T. -0.15 min
 Lab File: VU028618.D
 Acq: 11 Dec 2018 19:38

Tgt Ion: 117 Resp: 8994
 Ion Ratio Lower Upper
 117 100
 119 3.5 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: 0.287 ug/l

RT: 6.18 min Scan# 1557

Delta R.T. -0.23 min

Lab File: VU028618.D

Acq: 11 Dec 2018 19:38

Instrument :

MSVOA_U

ClientSampleId :

RE-125D1-20181204DL

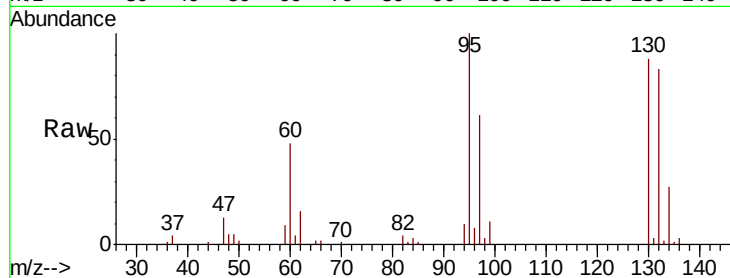
Tot Ion: 83 Resp: 603

Ion Ratio Lower Upper

83 100

55 0.0 70.2 105.2#

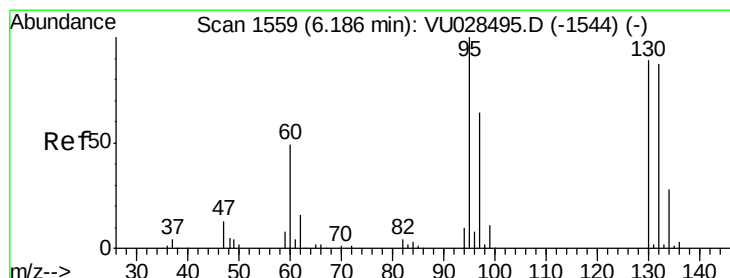
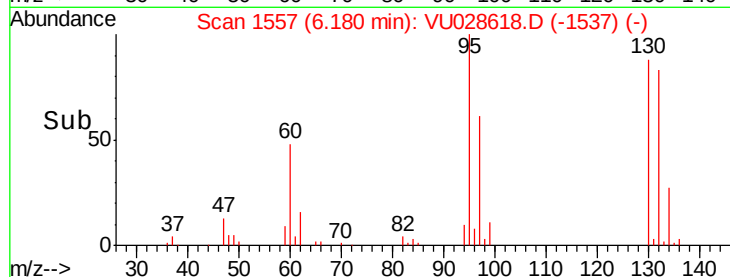
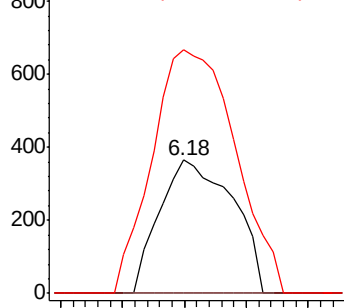
98 154.0 34.2 51.4#



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: 42.205 ug/l

RT: 6.19 min Scan# 1559

Delta R.T. -0.00 min

Lab File: VU028618.D

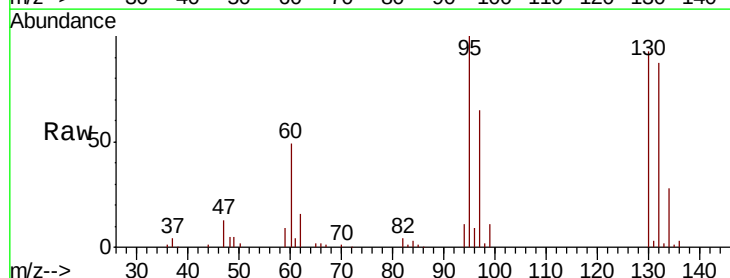
Acq: 11 Dec 2018 19:38

Tgt Ion:130 Resp: 47656

Ion Ratio Lower Upper

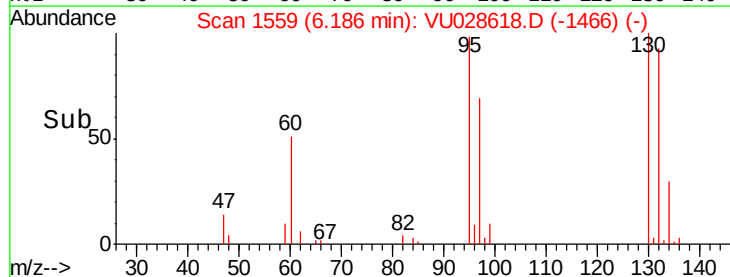
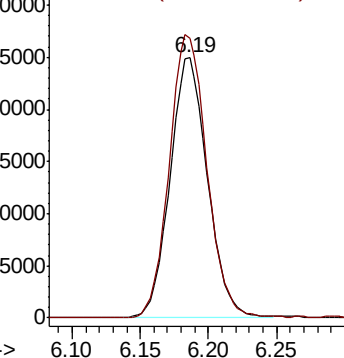
130 100

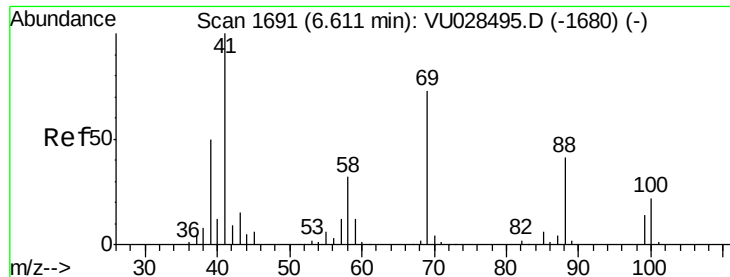
95 107.6 0.0 224.0



Abundance Ion 129.80 (129.50 to 130.50): V

Ion 94.90 (94.60 to 95.60): VU0

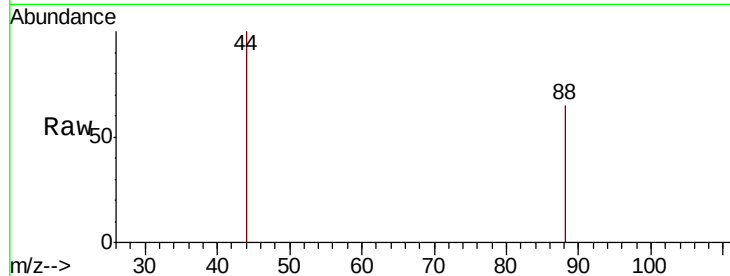




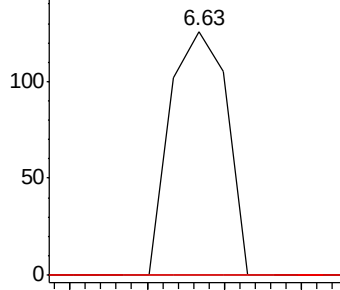
#49
1,4-Dioxane
Concen: 2.312 ug/l
RT: 6.63 min Scan# 1696
Delta R.T. 0.02 min
Lab File: VU028618.D
Acq: 11 Dec 2018 19:38

Instrument :
MSVOA_U
ClientSampleId :
RE-125D1-20181204DL

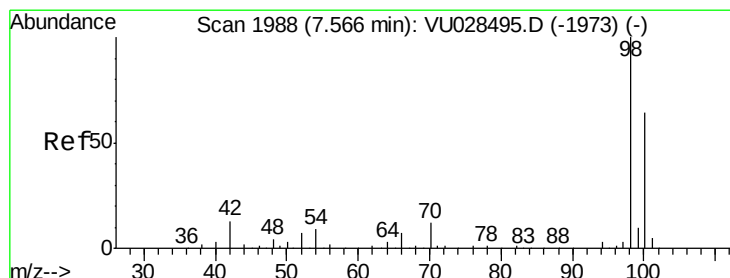
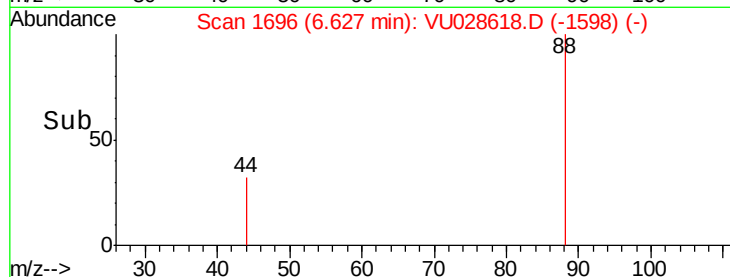
Tot Ion: 88 Resp: 64
Ion Ratio Lower Upper
88 100
43 0.0 30.9 46.3#
58 0.0 62.4 93.6#



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

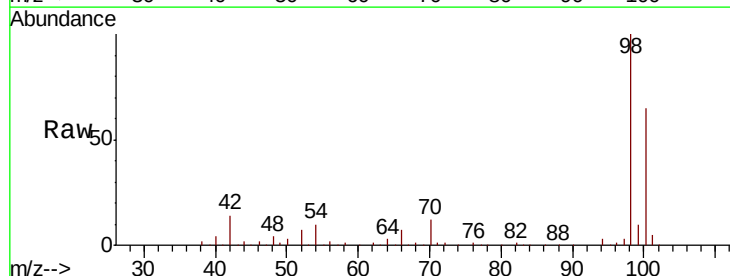


Time-->

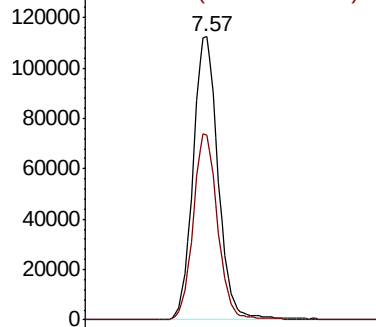


#50
Toluene-d8
Concen: 51.677 ug/l
RT: 7.57 min Scan# 1988
Delta R.T. -0.00 min
Lab File: VU028618.D
Acq: 11 Dec 2018 19:38

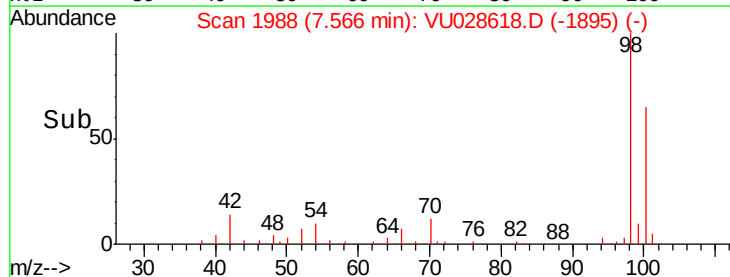
Tgt Ion: 98 Resp: 202706
Ion Ratio Lower Upper
98 100
100 64.3 51.0 76.6

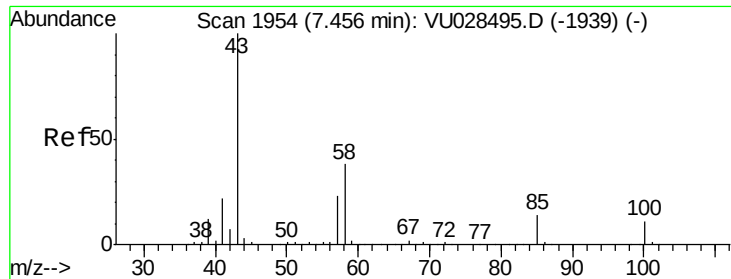


Abundance Ion 98.00 (97.70 to 98.70): VU0
Ion 100.00 (99.70 to 100.70): VU0



Time-->





#51

4-Methyl-2-Pentanone

Concen: 0.414 ug/l

RT: 7.56 min Scan# 1986

Delta R.T. 0.10 min

Lab File: VU028618.D

Acq: 11 Dec 2018 19:38

Instrument :

MSVOA_U

ClientSampleId :

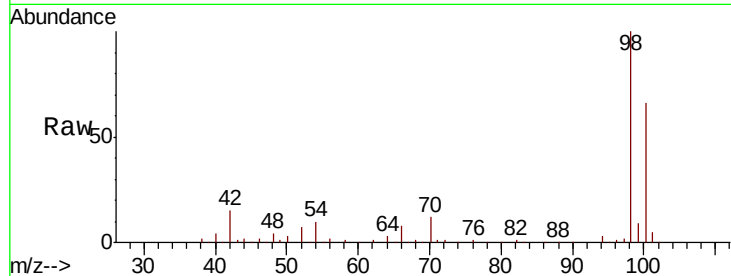
RE-125D1-20181204DL

Tot Ion: 43 Resp: 920

Ion Ratio Lower Upper

43 100

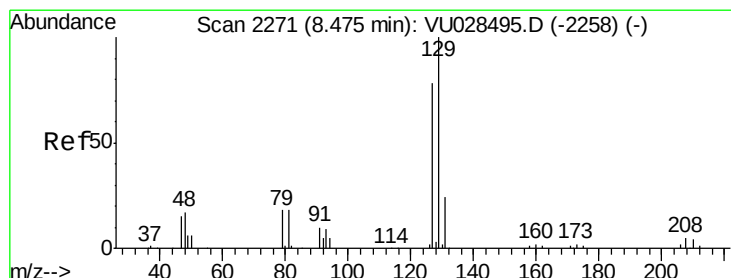
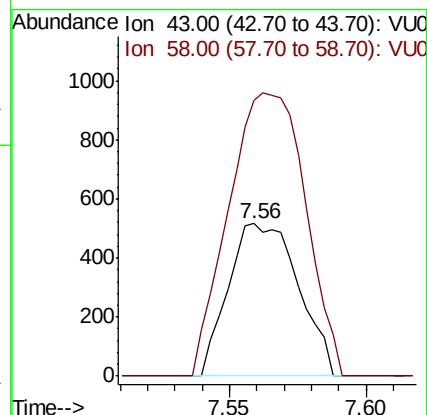
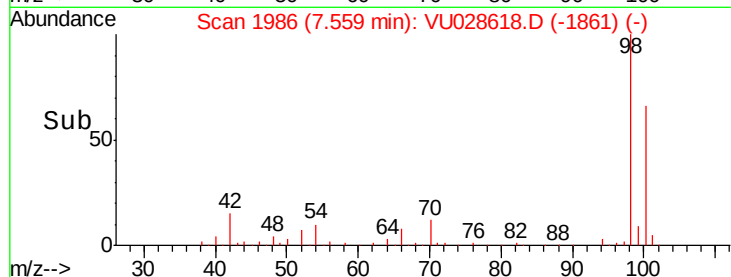
58 203.6 30.2 45.2#



Abundance Ion 43.00 (42.70 to 43.70): VU028618.D (-1939) (-)

Ion 58.00 (57.70 to 58.70): VU028618.D (-1939) (-)

Time-->



#60

Dibromochloromethane

Concen: 1.242 ug/l

RT: 8.22 min Scan# 2193

Delta R.T. -0.25 min

Lab File: VU028618.D

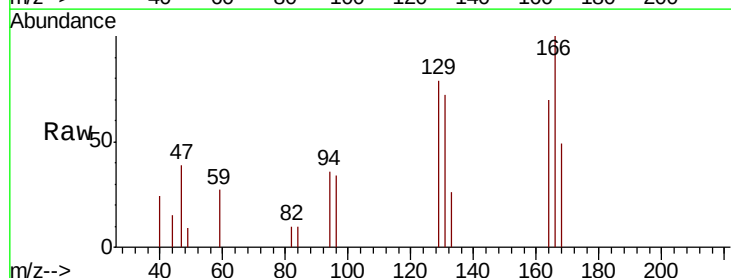
Acq: 11 Dec 2018 19:38

Tgt Ion: 129 Resp: 1437

Ion Ratio Lower Upper

129 100

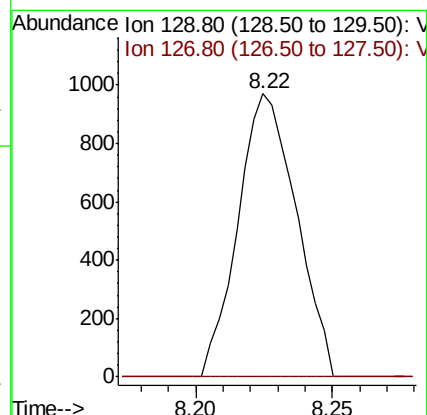
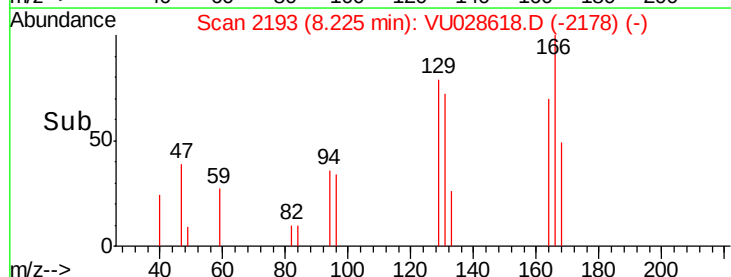
127 0.0 39.1 117.3#

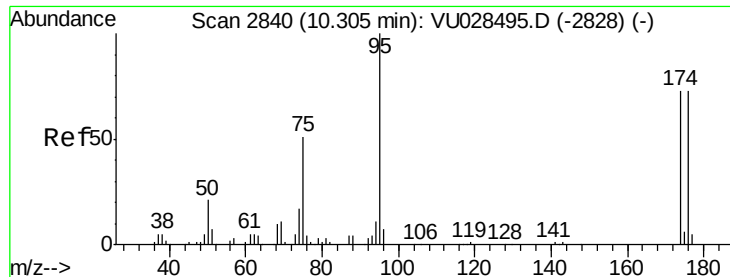


Abundance Ion 128.80 (128.50 to 129.50): VU028618.D (-2178) (-)

Ion 126.80 (126.50 to 127.50): VU028618.D (-2178) (-)

Time-->

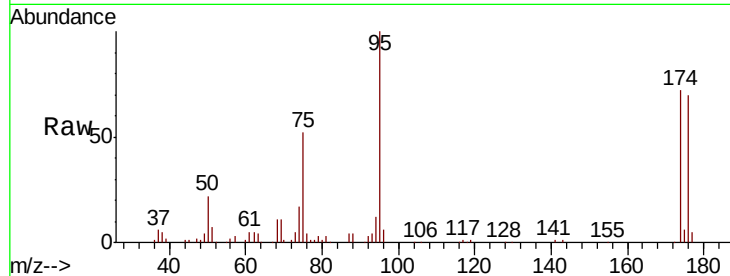




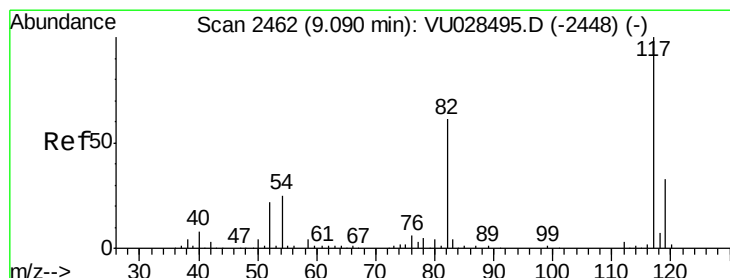
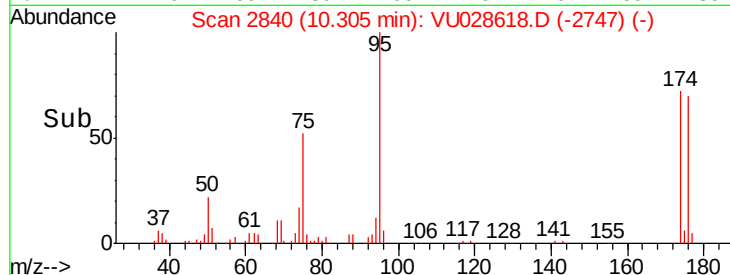
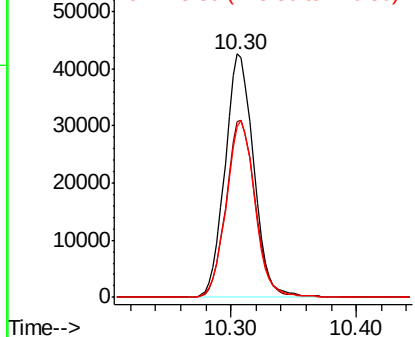
#62
 4-Bromofluorobenzene
 Concen: 46.137 ug/l
 RT: 10.30 min Scan# 2840
 Delta R.T. -0.00 min
 Lab File: VU028618.D
 Acq: 11 Dec 2018 19:38

Instrument :
 MSVOA_U
 ClientSampleId :
 RE-125D1-20181204DL

Tot Ion: 95 Resp: 67642
 Ion Ratio Lower Upper
 95 100
 174 73.8 0.0 150.4
 176 72.2 0.0 145.2

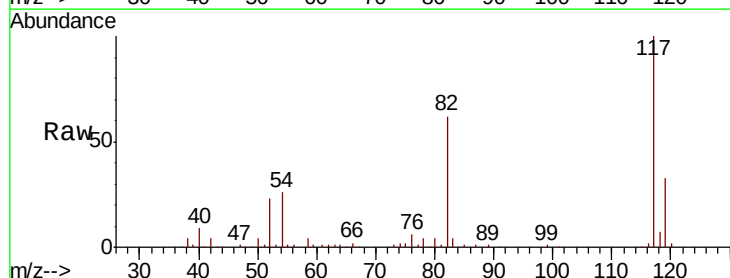


Abundance Ion 94.90 (94.60 to 95.60): VU0
 Ion 173.80 (173.50 to 174.50): V
 Ion 175.80 (175.50 to 176.50): V

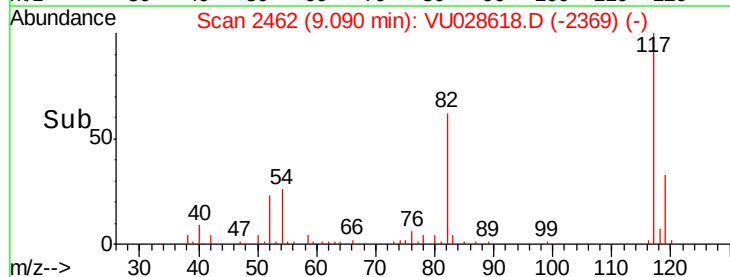
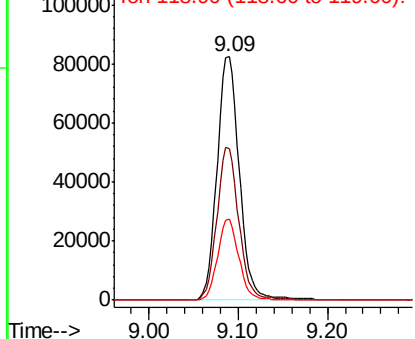


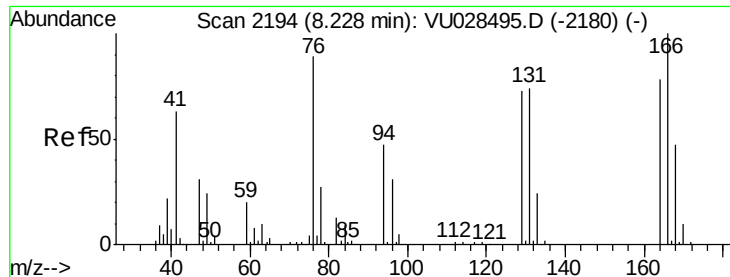
#63
 Chlorobenzene-d5
 Concen: 50.000 ug/l
 RT: 9.09 min Scan# 2462
 Delta R.T. -0.00 min
 Lab File: VU028618.D
 Acq: 11 Dec 2018 19:38

Tgt Ion: 117 Resp: 143167
 Ion Ratio Lower Upper
 117 100
 82 62.2 48.9 73.3
 119 33.1 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

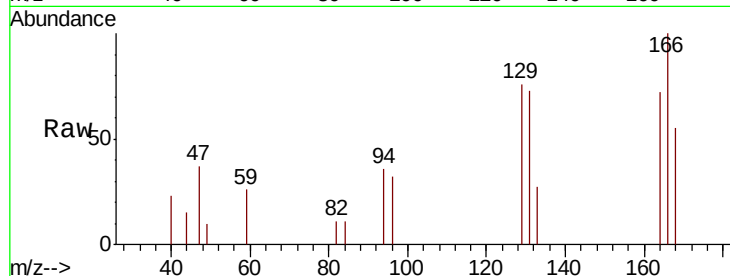




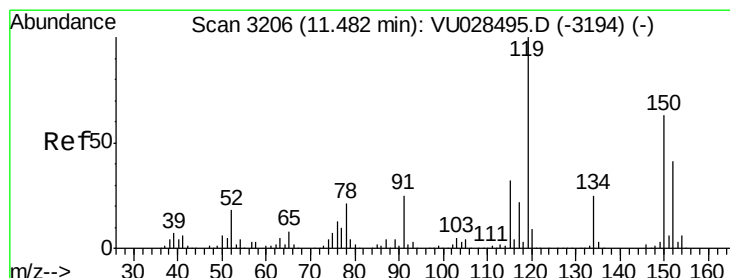
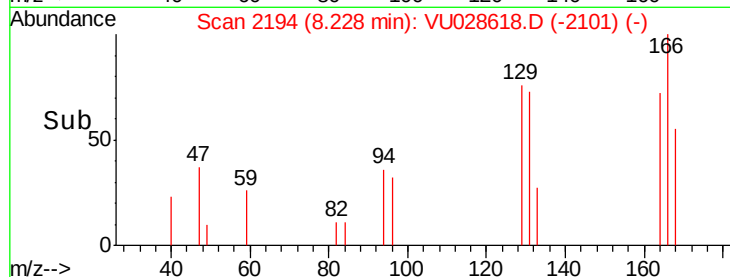
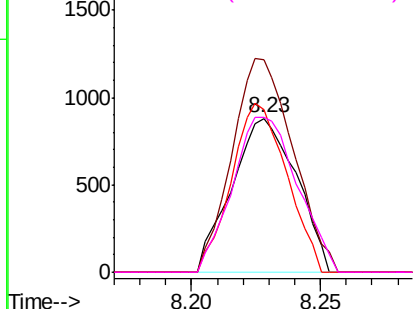
#64
Tetrachloroethene
Concen: 1.606 ug/l
RT: 8.23 min Scan# 2194
Delta R.T. -0.00 min
Lab File: VU028618.D
Acq: 11 Dec 2018 19:38

Instrument :
MSVOA_U
ClientSampleId :
RE-125D1-20181204DL

Tot Ion:164 Resp: 1534
Ion Ratio Lower Upper
164 100
166 138.0 101.9 152.9
129 105.4 74.9 112.3
131 100.5 75.4 113.0

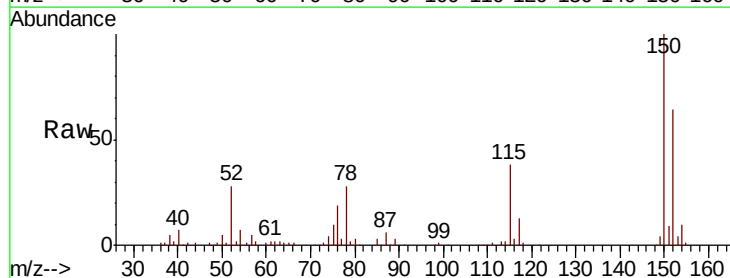


Abundance Ion 163.80 (163.50 to 164.50): V
Ion 165.80 (165.50 to 166.50): V
Ion 128.80 (128.50 to 129.50): V
Ion 130.80 (130.50 to 131.50): V

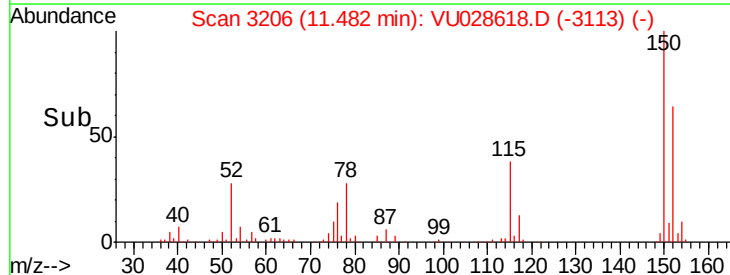
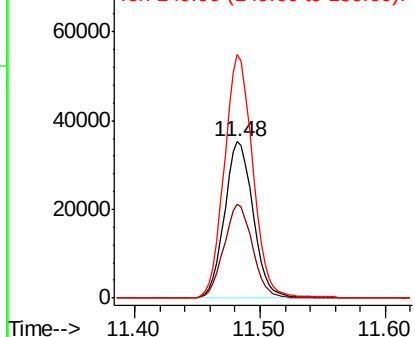


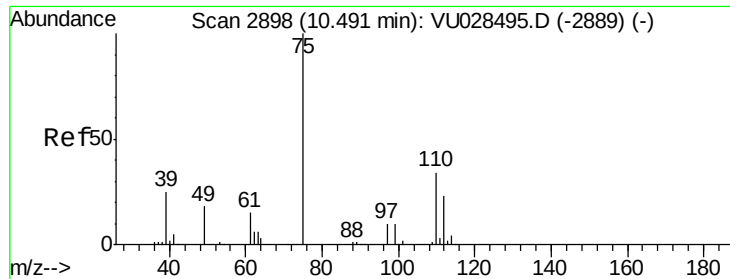
#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 11.48 min Scan# 3206
Delta R.T. -0.00 min
Lab File: VU028618.D
Acq: 11 Dec 2018 19:38

Tgt Ion:152 Resp: 55929
Ion Ratio Lower Upper
152 100
115 59.7 42.7 128.1
150 154.7 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: 25.039 ug/l

RT: 10.30 min Scan# 2840

Delta R.T. -0.19 min

Lab File: VU028618.D

Acq: 11 Dec 2018 19:38

Instrument :

MSVOA_U

ClientSampleId :

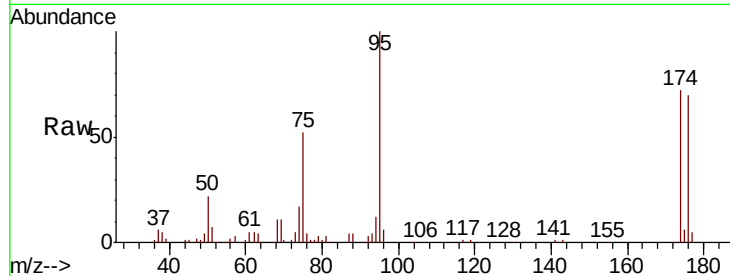
RE-125D1-20181204DL

Tot Ion: 75 Resp: 35759

Ion Ratio Lower Upper

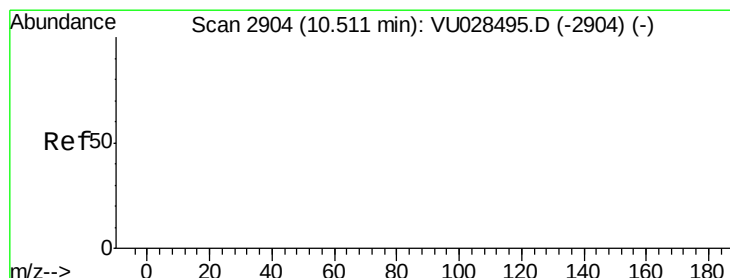
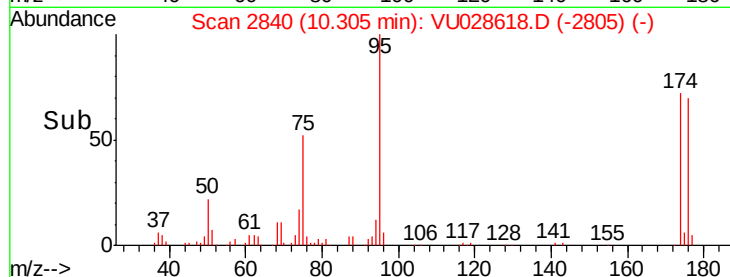
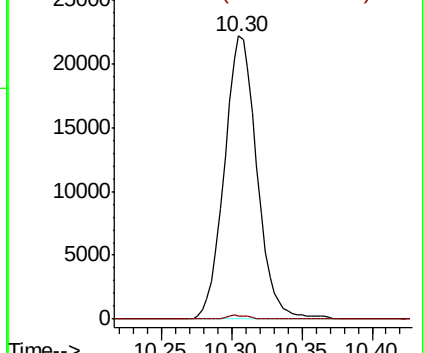
75 100

77 0.9 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: 61.441 ug/l

RT: 10.30 min Scan# 2840

Delta R.T. -0.21 min

Lab File: VU028618.D

Acq: 11 Dec 2018 19:38

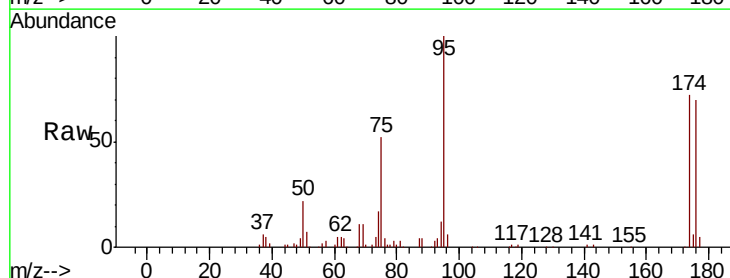
Tgt Ion: 75 Resp: 35759

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

