

Data Path : Z:\VOASRV\HPCHEM1\MSVOA U\DATA\VU061320\
 Data File : VU038858.D
 Acq On : 12 Jun 2020 17:51
 Operator : SY/MD
 Sample : L2990-04MS
 Misc : 25.0mL/MSVOA U/WATER
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_U
 ClientSampleId :

Quant Time: Jun 13 00:59:49 2020
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_U\METHOD\SOMUTR061220WMA.M
 Quant Title : TRACE VOA SOM01.0
 QLast Update : Sat Jun 13 00:56:28 2020
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Difluorobenzene	6.28	114	285140	5.00	ug/L	0.00
28) Chlorobenzene-d5	9.44	117	281102	5.00	ug/L	0.00
60) 1,4-Dichlorobenzene-d4	11.83	152	131248	5.00	ug/L	0.00

System Monitoring Compounds

4) Vinyl Chloride-d3	1.61	65	95553	6.15	ug/L	0.00
Spiked Amount	5.000	Range	40 - 130	Recovery	=	123.00%
7) Chloroethane-d5	1.93	69	75780	6.07	ug/L	0.00
Spiked Amount	5.000	Range	65 - 130	Recovery	=	121.40%
11) 1,1-Dichloroethene-d2	2.59	63	204094	5.77	ug/L	0.00
Spiked Amount	5.000	Range	60 - 125	Recovery	=	115.40%
20) 2-Butanone-d5	4.67	46	294157	60.31	ug/L	0.00
Spiked Amount	50.000	Range	40 - 130	Recovery	=	120.62%
24) Chloroform-d	5.10	84	184496	5.36	ug/L	0.00
Spiked Amount	5.000	Range	70 - 125	Recovery	=	107.20%
26) 1,2-Dichloroethane-d4	5.74	65	109517	5.63	ug/L	0.00
Spiked Amount	5.000	Range	70 - 130	Recovery	=	112.60%
32) Benzene-d6	5.76	84	371155	5.65	ug/L	0.00
Spiked Amount	5.000	Range	70 - 125	Recovery	=	113.00%
36) 1,2-Dichloropropane-d6	6.72	67	113628	5.78	ug/L	0.00
Spiked Amount	5.000	Range	60 - 140	Recovery	=	115.60%
41) Toluene-d8	7.92	98	314696	5.22	ug/L	0.00
Spiked Amount	5.000	Range	70 - 130	Recovery	=	104.40%
43) trans-1,3-Dichloropropene-	8.20	79	46063	5.28	ug/L	0.00
Spiked Amount	5.000	Range	55 - 130	Recovery	=	105.60%
46) 2-Hexanone-d5	8.65	63	254856	65.73	ug/L	0.00
Spiked Amount	50.000	Range	45 - 130	Recovery	=	131.46%#
57) 1,1,2,2-Tetrachloroethane-	10.77	84	93074	5.41	ug/L	0.00
Spiked Amount	5.000	Range	65 - 120	Recovery	=	108.20%
64) 1,2-Dichlorobenzene-d4	12.20	152	125109	5.86	ug/L	0.00
Spiked Amount	5.000	Range	80 - 120	Recovery	=	117.20%

Target Compounds

Target Compounds	R.T.	QIon	Response	Conc	Units	Ovalue
12) 1,1-Dichloroethene	2.60	96	111477	5.582	ug/L	96
13) Acetone	2.67	43	4259	1.076	ug/L	84
18) trans-1,2-Dichloroethene	3.39	96	3394	0.158	ug/L	98
19) 1,1-Dichloroethane	3.91	63	247093	6.403	ug/L	99
22) cis-1,2-Dichloroethene	4.71	96	29579	1.324	ug/L	95
25) Chloroform	5.13	83	17902	0.450	ug/L	96
27) 1,2-Dichloroethane	5.81	62	4305	0.155	ug/L #	72
29) 1,1,1-Trichloroethane	5.35	97	152083	4.384	ug/L	99
31) Carbon tetrachloride	5.36	117	19114	0.653	ug/L	99
33) Benzene	5.81	78	410581	4.834	ug/L	100
34) Trichloroethene	6.57	95	123157	5.552	ug/L	97
35) Methylcyclohexane	6.72	83	27900	0.809	ug/L #	17
37) 1,2-Dichloropropane	6.72	63	13140	0.614	ug/L #	86
38) Bromodichloromethane	7.13	83	10685	0.385	ug/L	95
39) cis-1,3-Dichloropropene	7.59	75	3283	0.104	ug/L #	45
42) Toluene	7.99	91	422885	4.716	ug/L	100
47) Tetrachloroethene	8.58	164	6140	0.360	ug/L	82

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MSVOA_U
ClientSampleId :

Quant Time: Jun 13 00:59:49 2020
Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_U\METHOD\SOMUTR061220WMA.M
Quant Title : TRACE VOA SOM01.0
QLast Update : Sat Jun 13 00:56:28 2020
Response via : Initial Calibration

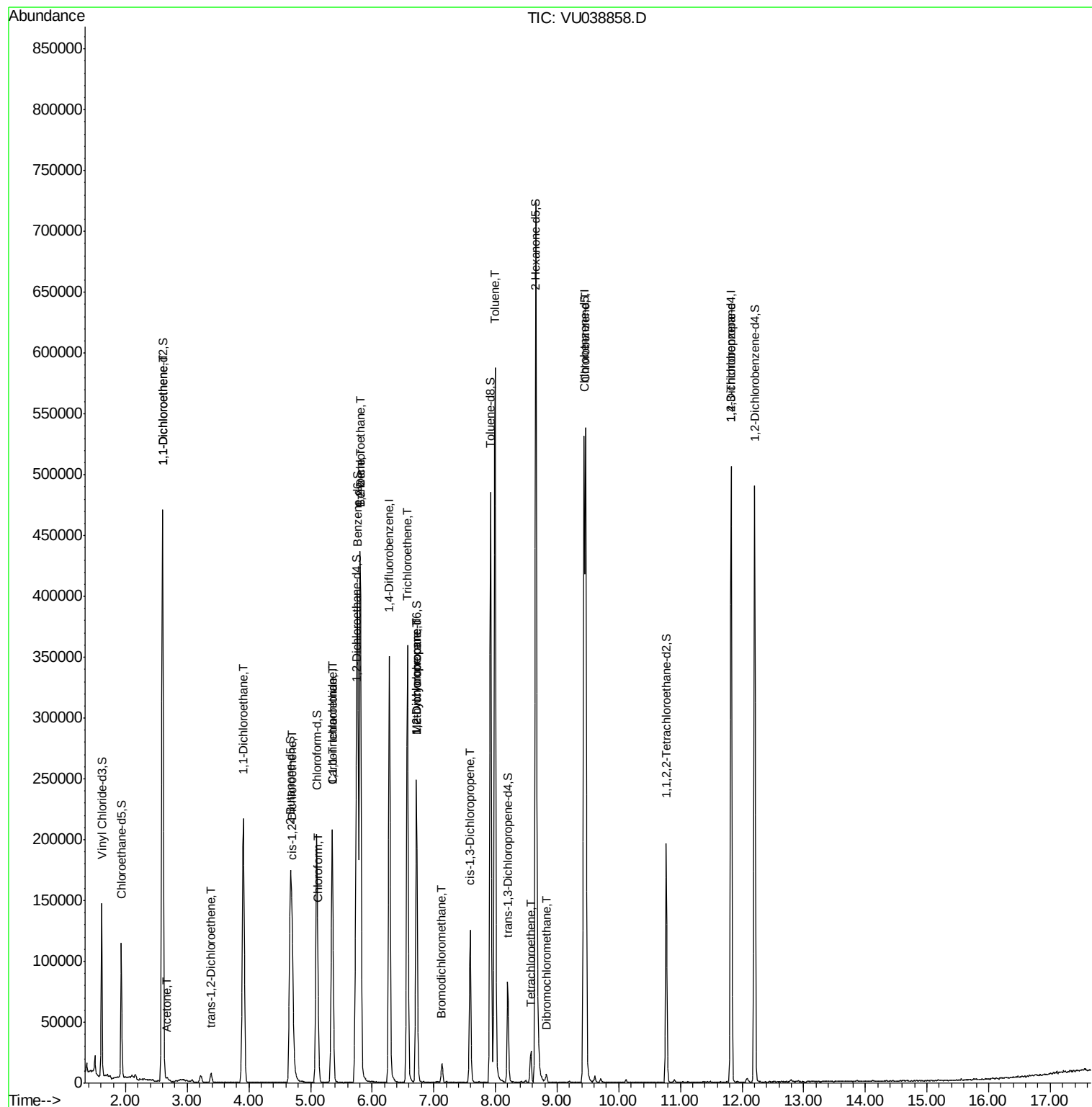
Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
49) Dibromochloromethane	8.83	129	3480	0.191	ug/L	76
51) Chlorobenzene	9.47	112	274977	4.762	ug/L	99
59) 1,2,3-Trichloropropane	11.82	75	16371	1.031	ug/L #	88

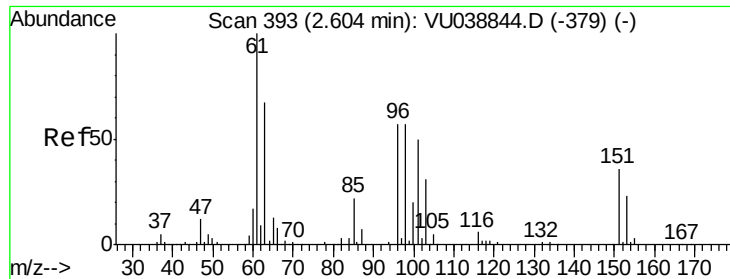
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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ClientSampled :

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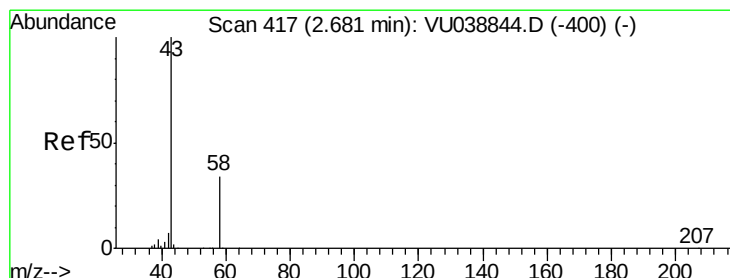
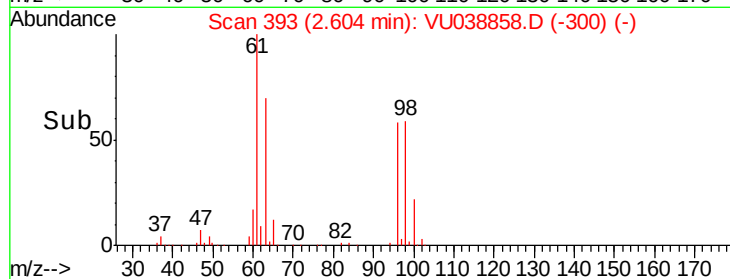
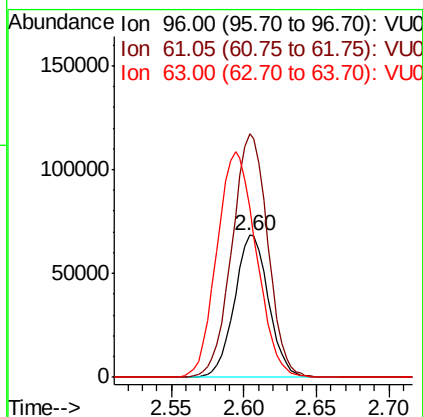
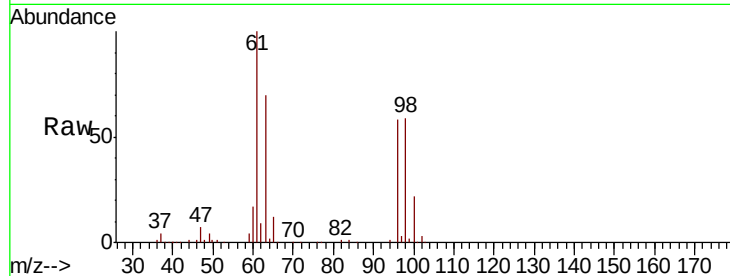




#12
 1,1-Dichloroethene
 Concen: 5.582 ug/L
 RT: 2.60 min Scan# 393
 Delta R.T. -0.00 min
 Lab File: VU038858.D
 Acq: 12 Jun 2020 17:51

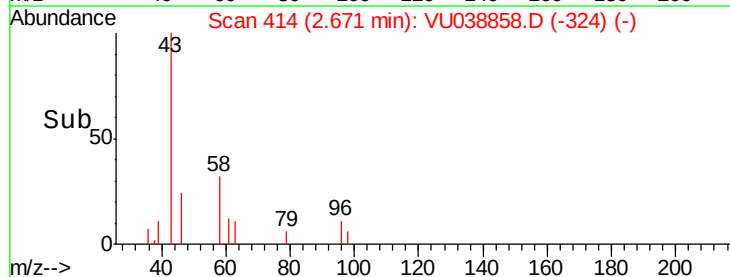
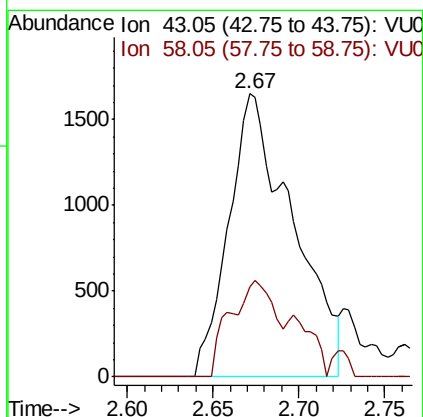
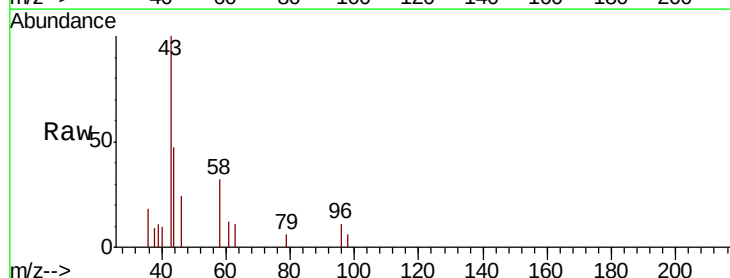
Instrument :
 MSVOA_U
 ClientSampled :

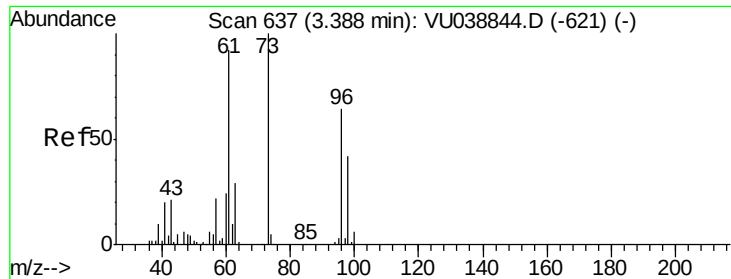
Tot Ion	96	Resp	111477
Ion	Ratio	Lower	Upper
96	100		
61	171.0	120.2	223.2
63	119.2	90.1	167.3



#13
 Acetone
 Concen: 1.076 ug/L
 RT: 2.67 min Scan# 414
 Delta R.T. -0.01 min
 Lab File: VU038858.D
 Acq: 12 Jun 2020 17:51

Tgt Ion	43	Resp	4259
Ion	Ratio	Lower	Upper
43	100		
58	23.9	0.0	66.0





#18

trans-1,2-Dichloroethene

Concen: 0.158 ug/L

RT: 3.39 min Scan# 636

Delta R.T. -0.00 min

Lab File: VU038858.D

Acq: 12 Jun 2020 17:51

Instrument :

MSVOA_U

ClientSampleId :

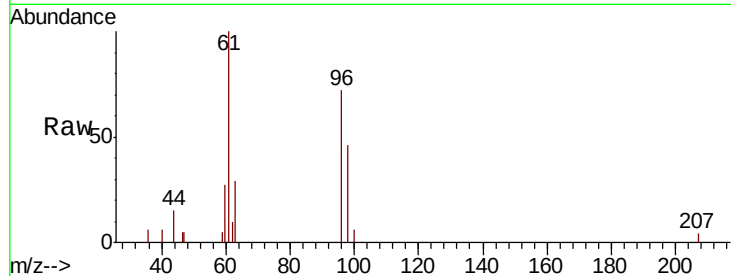
Tot Ion: 96 Resp: 3394

Ion Ratio Lower Upper

96 100

61 138.1 99.3 184.5

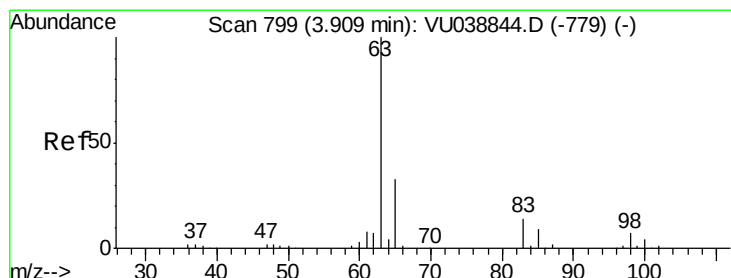
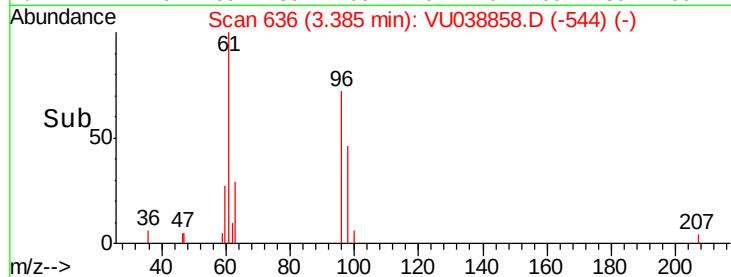
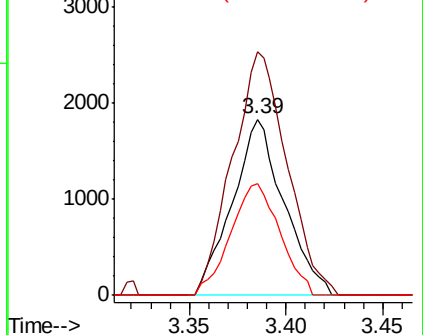
98 63.5 43.9 81.5



Abundance Ion 96.00 (95.70 to 96.70): VU038844.D (-621) (-)

Ion 61.05 (60.75 to 61.75): VU038844.D (-621) (-)

Ion 97.95 (97.65 to 98.65): VU038844.D (-621) (-)



#19

1,1-Dichloroethane

Concen: 6.403 ug/L

RT: 3.91 min Scan# 799

Delta R.T. -0.00 min

Lab File: VU038858.D

Acq: 12 Jun 2020 17:51

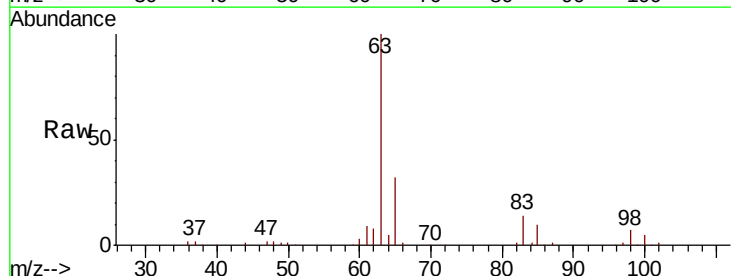
Tgt Ion: 63 Resp: 247093

Ion Ratio Lower Upper

63 100

65 31.7 22.3 41.5

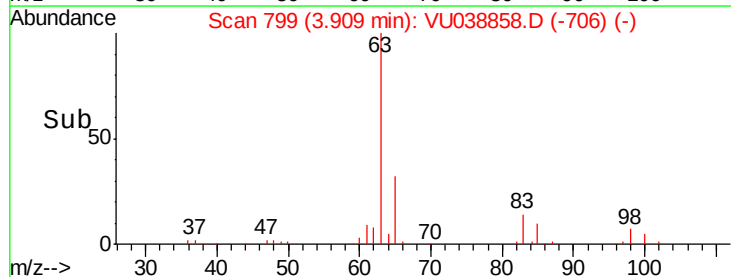
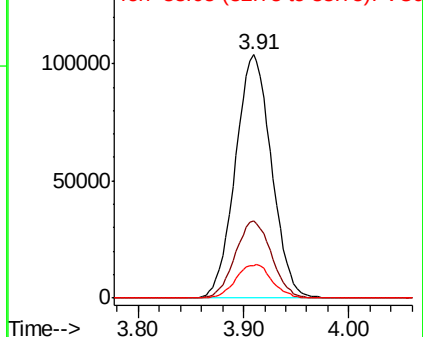
83 13.6 10.1 18.9

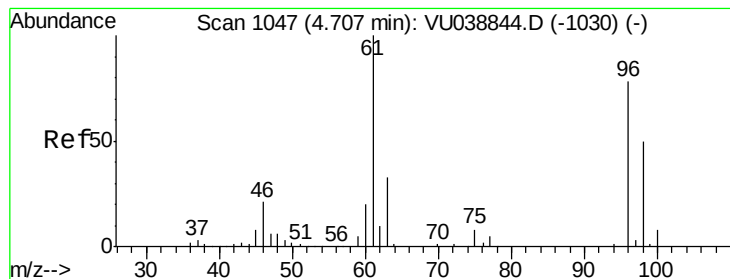


Abundance Ion 63.10 (62.80 to 63.80): VU038844.D (-779) (-)

Ion 65.10 (64.80 to 65.80): VU038844.D (-779) (-)

Ion 83.05 (82.75 to 83.75): VU038844.D (-779) (-)





#22

cis-1,2-Dichloroethene

Concen: 1.324 ug/L

RT: 4.71 min Scan# 1047

Delta R.T. -0.00 min

Lab File: VU038858.D

Acq: 12 Jun 2020 17:51

Instrument :
MSVOA_U
ClientSampleId :

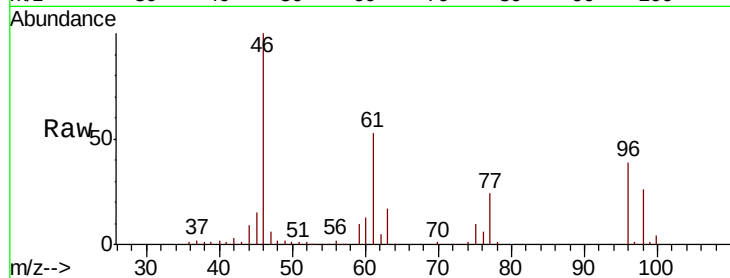
Tot Ion: 96 Resp: 29579

Ion Ratio Lower Upper

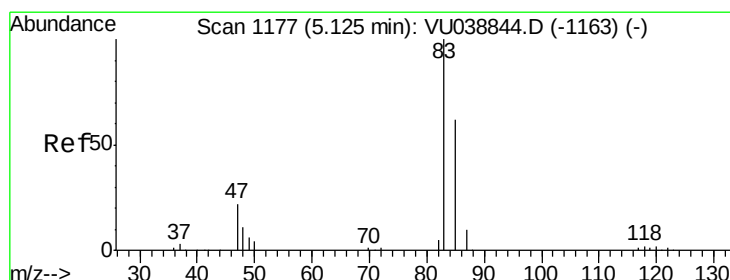
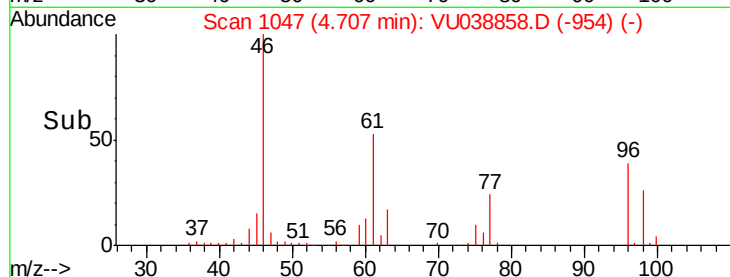
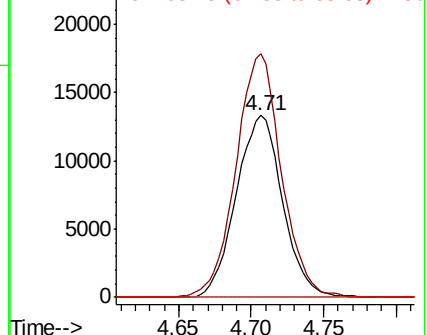
96 100

61 134.0 89.7 166.7

68 0.0 0.0 0.0



Abundance Ion 96.00 (95.70 to 96.70): VU0
Ion 61.05 (60.75 to 61.75): VU0
Ion 68.15 (67.85 to 68.85): VU0



#25

Chloroform

Concen: 0.450 ug/L

RT: 5.13 min Scan# 1178

Delta R.T. 0.00 min

Lab File: VU038858.D

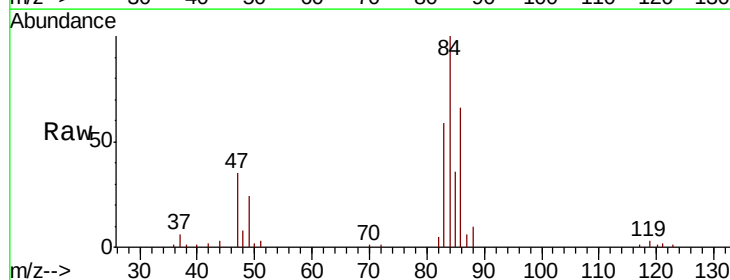
Acq: 12 Jun 2020 17:51

Tgt Ion: 83 Resp: 17902

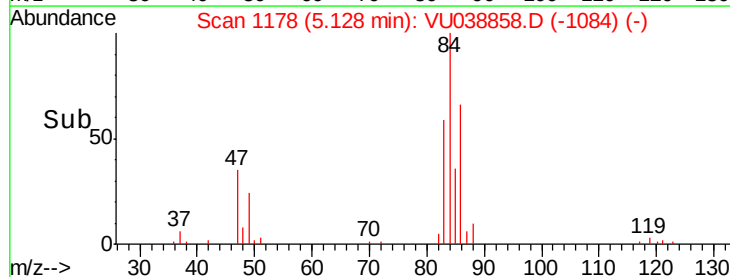
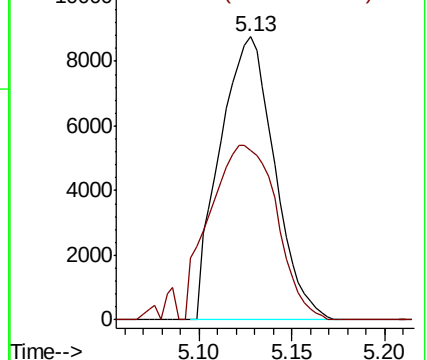
Ion Ratio Lower Upper

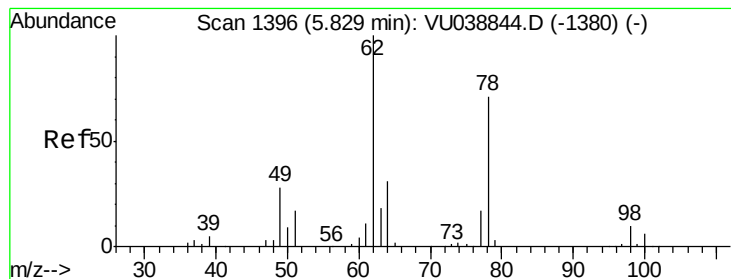
83 100

85 59.9 44.1 81.9



Abundance Ion 83.05 (82.75 to 83.75): VU0
Ion 85.00 (84.70 to 85.70): VU0





#27

1,2-Dichloroethane

Concen: 0.155 ug/L

RT: 5.81 min Scan# 1390

Delta R.T. -0.02 min

Lab File: VU038858.D

Acq: 12 Jun 2020 17:51

Instrument :

MSVOA_U

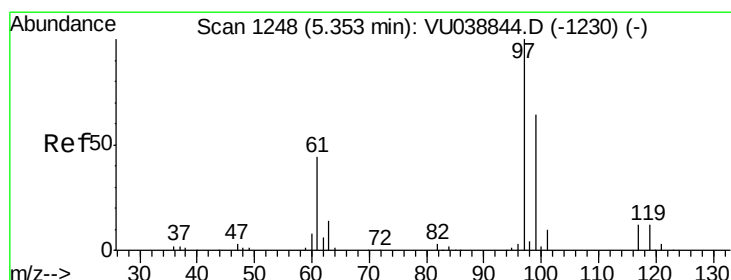
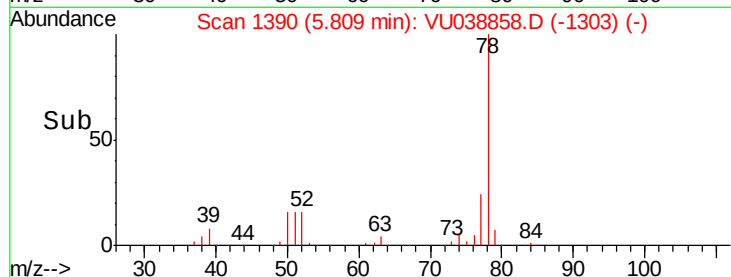
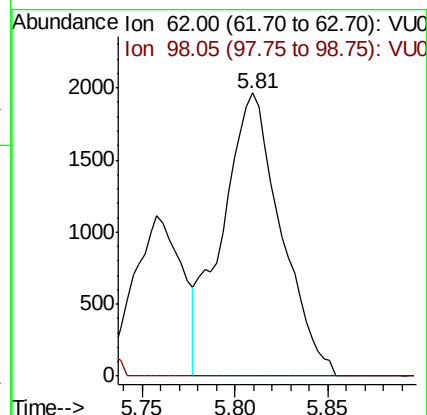
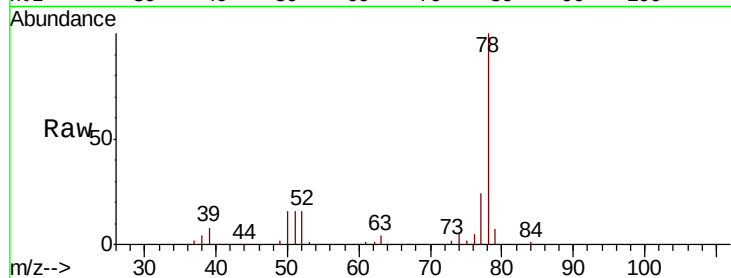
ClientSampleId :

Tot Ion: 62.00 Resp: 4305

Ion Ratio Lower Upper

62 100

98 0.0 8.2 12.4#



#29

1,1,1-Trichloroethane

Concen: 4.384 ug/L

RT: 5.35 min Scan# 1247

Delta R.T. -0.00 min

Lab File: VU038858.D

Acq: 12 Jun 2020 17:51

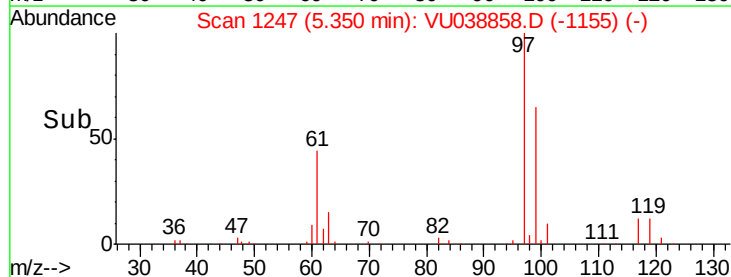
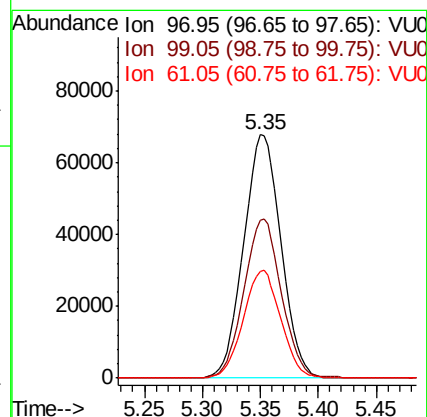
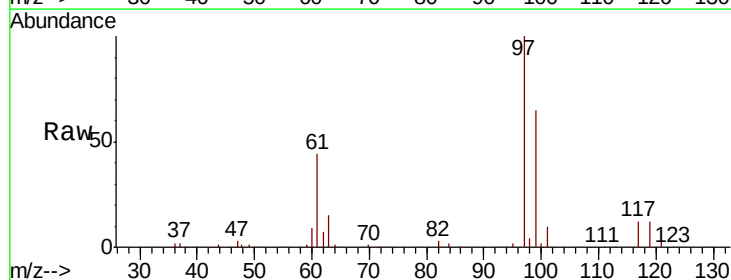
Tgt Ion: 97 Resp: 152083

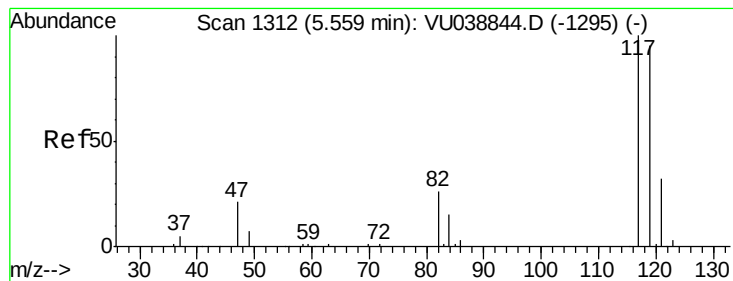
Ion Ratio Lower Upper

97 100

99 65.4 52.1 78.1

61 44.3 35.9 53.9





#31

Carbon tetrachloride

Concen: 0.653 ug/L

RT: 5.36 min Scan# 1249

Delta R.T. -0.20 min

Lab File: VU038858.D

Acq: 12 Jun 2020 17:51

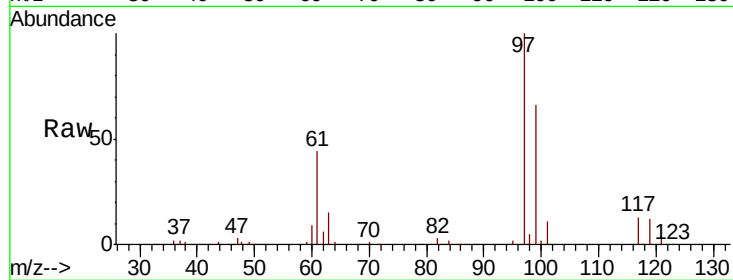
Instrument :
MSVOA_U
ClientSampleId :

Tot Ion:117 Resp: 19114

Ion Ratio Lower Upper

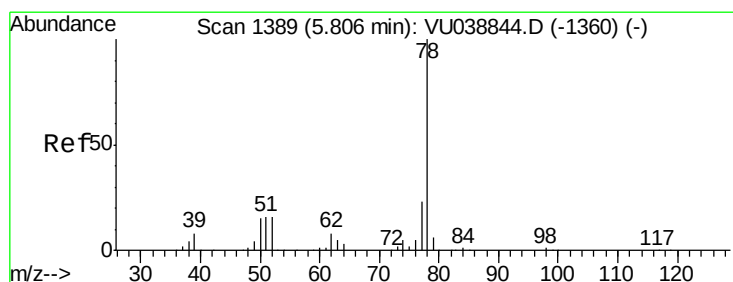
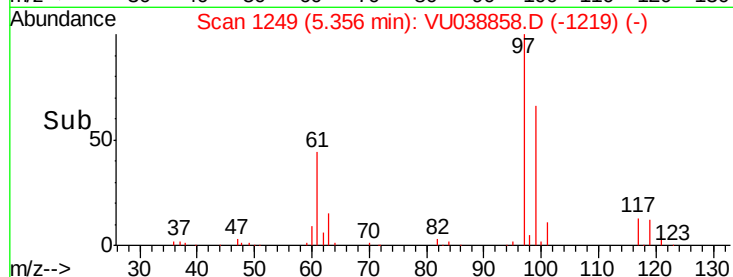
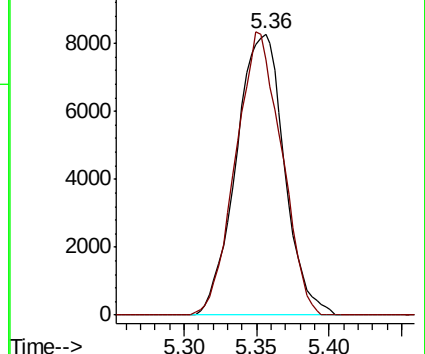
117 100

119 95.7 76.2 114.2



Abundance Ion 116.90 (116.60 to 117.60): V

Ion 118.90 (118.60 to 119.60): V



#33

Benzene

Concen: 4.834 ug/L

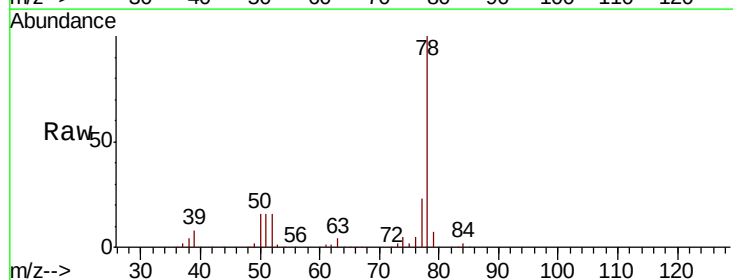
RT: 5.81 min Scan# 1389

Delta R.T. -0.00 min

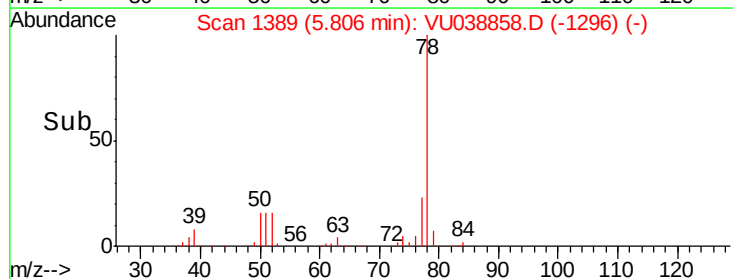
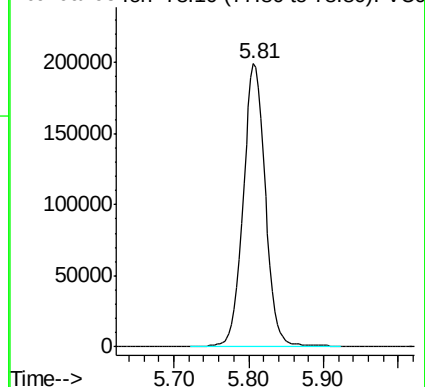
Lab File: VU038858.D

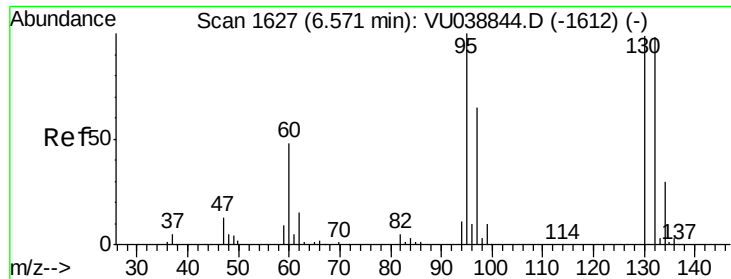
Acq: 12 Jun 2020 17:51

Tgt Ion: 78 Resp: 410581



Abundance Ion 78.10 (77.80 to 78.80): VU0

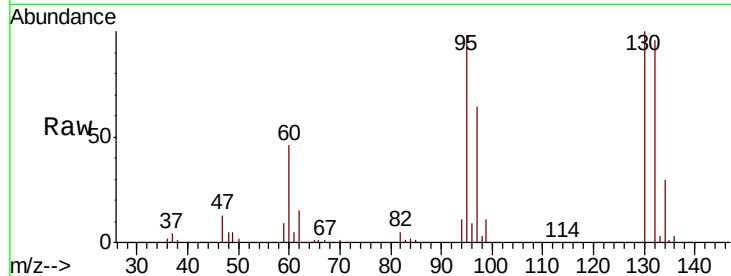




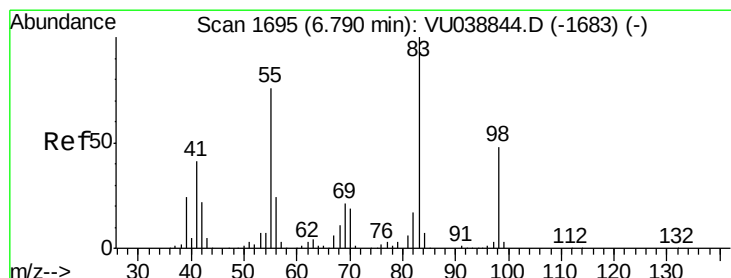
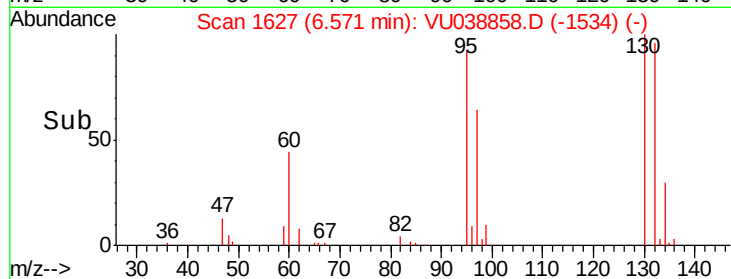
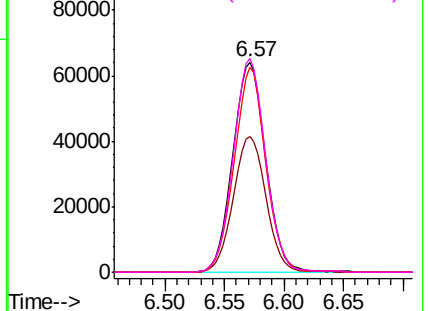
#34
 Trichloroethene
 Concen: 5.552 ug/L
 RT: 6.57 min Scan# 1627
 Delta R.T. -0.00 min
 Lab File: VU038858.D
 Acq: 12 Jun 2020 17:51

Instrument :
 MSVOA_U
 ClientSampled :

Tot Ion:	95	Resp:	123157
Ion	Ratio	Lower	Upper
95	100		
97	64.8	46.1	85.5
132	97.7	67.5	125.3
130	101.6	66.7	123.9

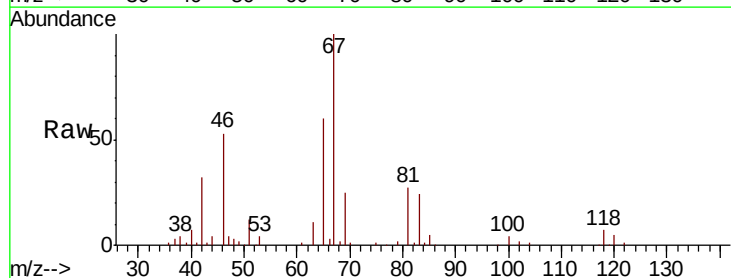


Abundance Ion 95.00 (94.70 to 95.70): VU0
 Ion 96.95 (96.65 to 97.65): VU0
 Ion 131.95 (131.65 to 132.65): V
 Ion 129.95 (129.65 to 130.65): V

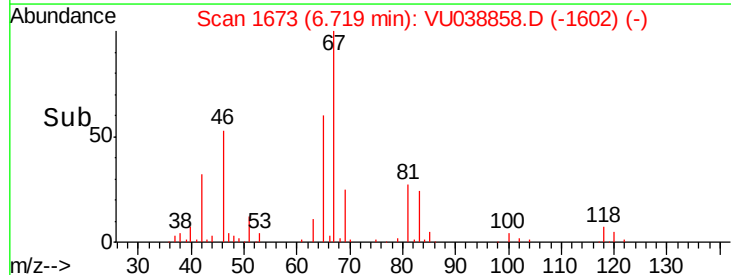
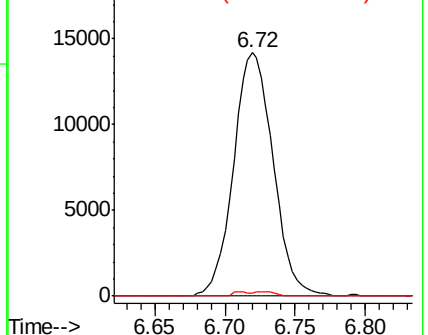


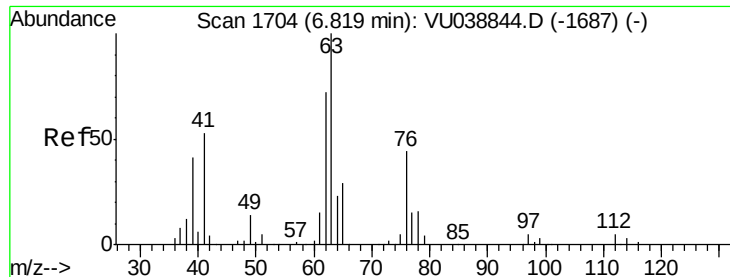
#35
 Methylcyclohexane
 Concen: 0.809 ug/L
 RT: 6.72 min Scan# 1673
 Delta R.T. -0.07 min
 Lab File: VU038858.D
 Acq: 12 Jun 2020 17:51

Tgt Ion:	83	Resp:	27900
Ion	Ratio	Lower	Upper
83	100		
55	0.0	64.2	96.2#
98	0.8	40.5	60.7#



Abundance Ion 83.15 (82.85 to 83.85): VU0
 Ion 55.10 (54.80 to 55.80): VU0
 Ion 98.15 (97.85 to 98.85): VU0

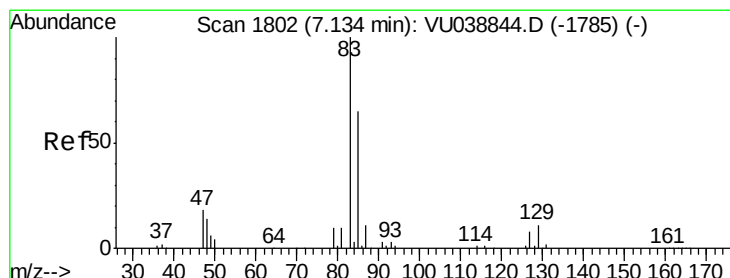
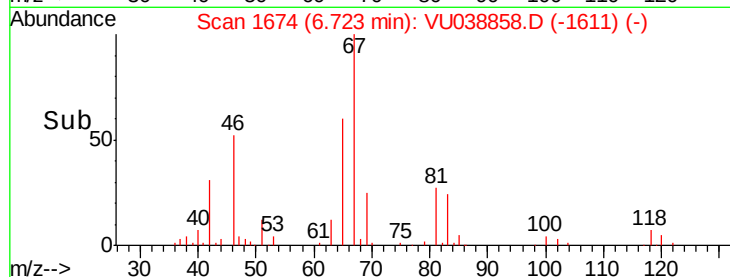
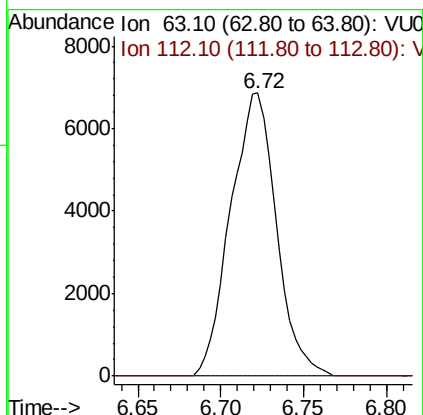
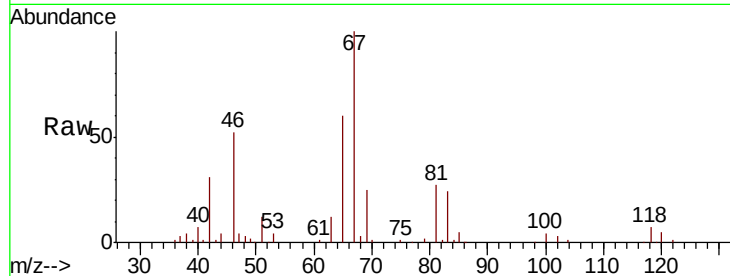




#37
 1,2-Dichloropropane
 Concen: 0.614 ug/L
 RT: 6.72 min Scan# 1674
 Delta R.T. -0.10 min
 Lab File: VU038858.D
 Acq: 12 Jun 2020 17:51

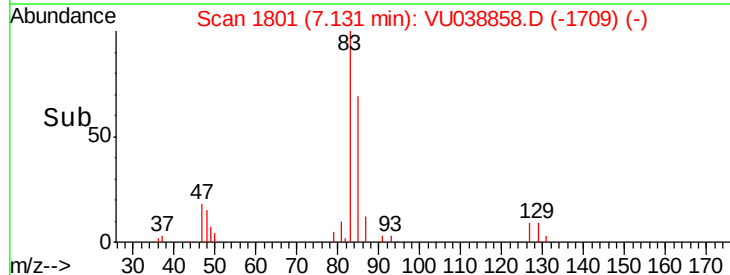
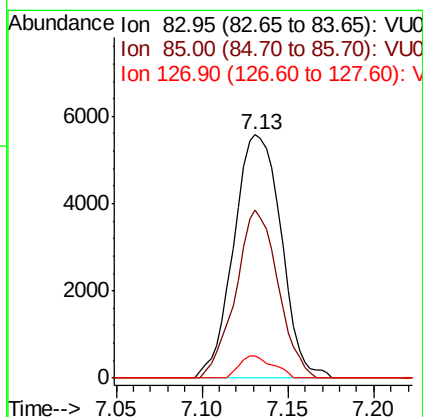
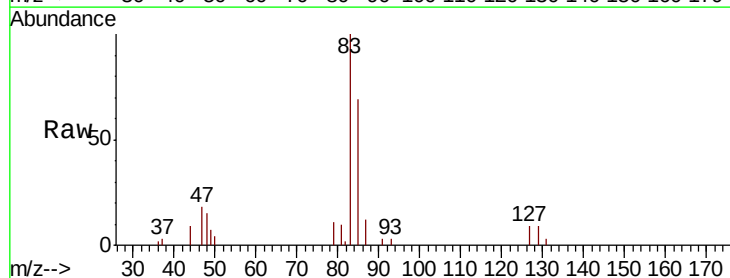
Instrument :
 MSVOA_U
 ClientSampleId :

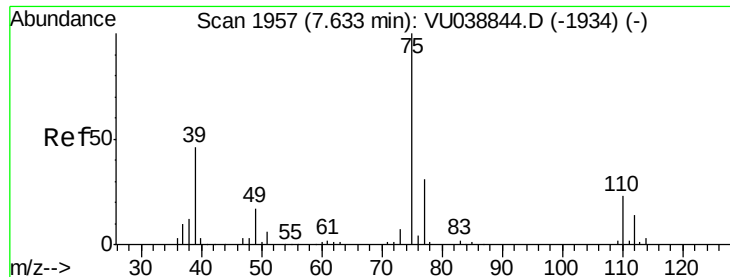
Tot Ion: 63 Resp: 13140
 Ion Ratio Lower Upper
 63 100
 112 0.0 3.8 5.6#



#38
 Bromodichloromethane
 Concen: 0.385 ug/L
 RT: 7.13 min Scan# 1801
 Delta R.T. -0.00 min
 Lab File: VU038858.D
 Acq: 12 Jun 2020 17:51

Tgt Ion: 83 Resp: 10685
 Ion Ratio Lower Upper
 83 100
 85 69.1 45.3 84.1
 127 9.4 7.1 10.7

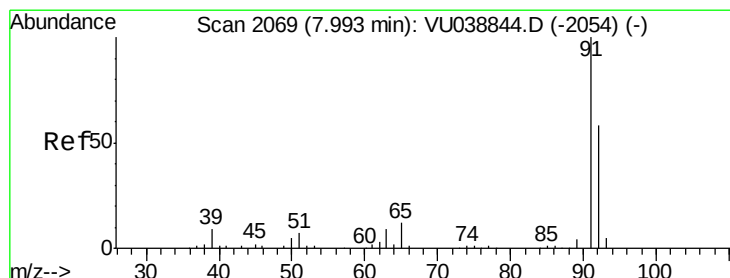
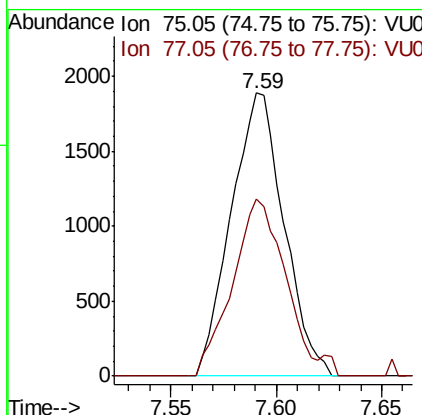
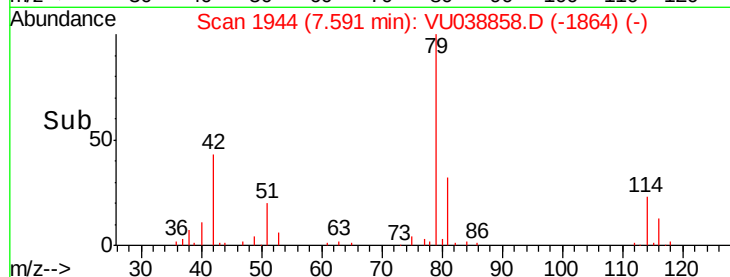
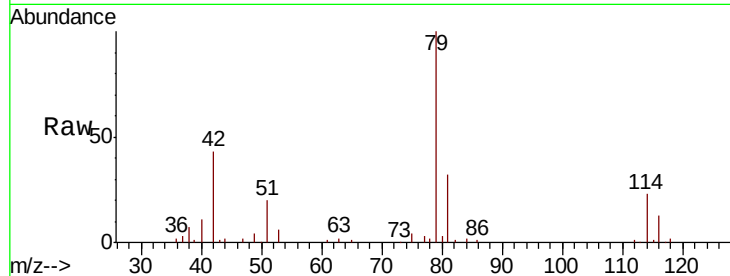




#39
 cis-1,3-Dichloropropene
 Concen: 0.104 ug/L
 RT: 7.59 min Scan# 1944
 Delta R.T. -0.04 min
 Lab File: VU038858.D
 Acq: 12 Jun 2020 17:51

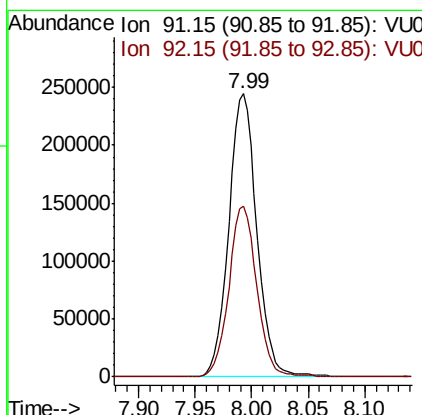
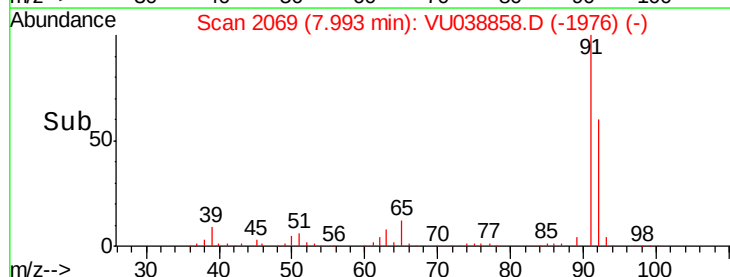
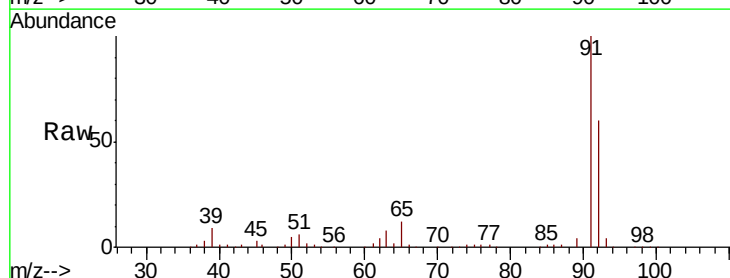
Instrument :
 MSVOA_U
 ClientSampleId :

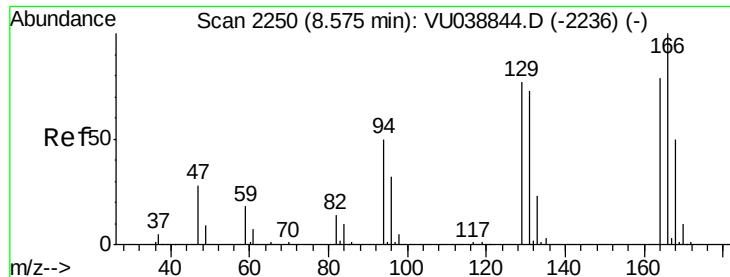
Tot Ion: 75 Resp: 3283
 Ion Ratio Lower Upper
 75 100
 77 62.5 22.4 41.6#



#42
 Toluene
 Concen: 4.716 ug/L
 RT: 7.99 min Scan# 2069
 Delta R.T. -0.00 min
 Lab File: VU038858.D
 Acq: 12 Jun 2020 17:51

Tgt Ion: 91 Resp: 422885
 Ion Ratio Lower Upper
 91 100
 92 60.2 42.4 78.6

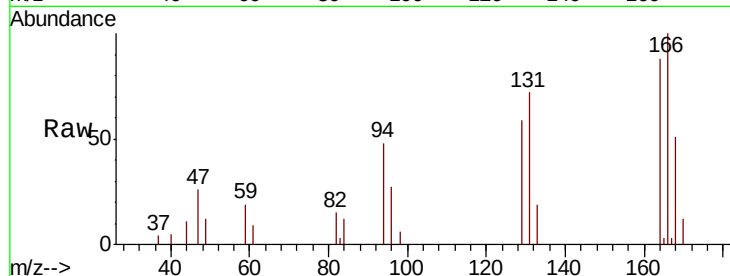




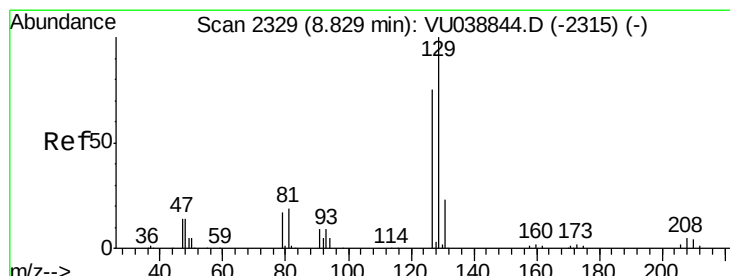
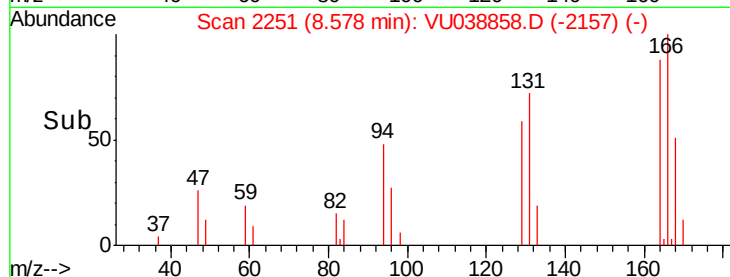
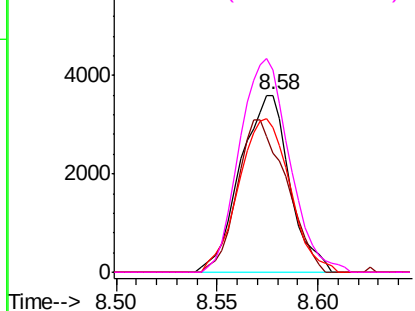
#47
Tetrachloroethene
Concen: 0.360 ug/L
RT: 8.58 min Scan# 2251
Delta R.T. 0.00 min
Lab File: VU038858.D
Acq: 12 Jun 2020 17:51

Instrument :
MSVOA_U
ClientSampleId :

Tot Ion:164 Resp: 6140
Ion Ratio Lower Upper
164 100
129 67.3 67.3 124.9
131 81.9 65.0 120.6
166 113.9 91.0 169.0

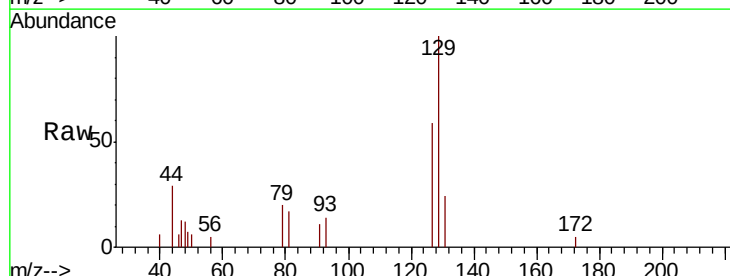


Abundance Ion 163.90 (163.60 to 164.60): V
Ion 128.95 (128.65 to 129.65): V
Ion 130.95 (130.65 to 131.65): V
Ion 165.90 (165.60 to 166.60): V

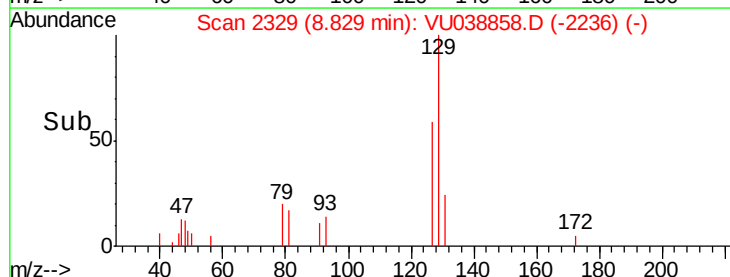
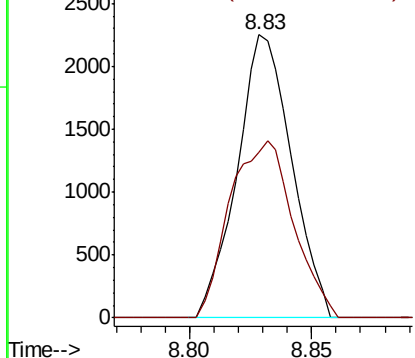


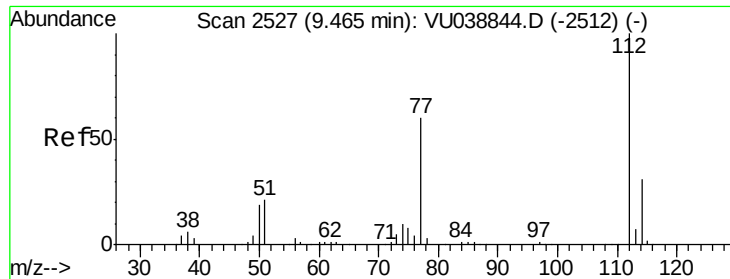
#49
Dibromochloromethane
Concen: 0.191 ug/L
RT: 8.83 min Scan# 2329
Delta R.T. -0.00 min
Lab File: VU038858.D
Acq: 12 Jun 2020 17:51

Tgt Ion:129 Resp: 3480
Ion Ratio Lower Upper
129 100
127 58.5 55.5 103.1



Abundance Ion 128.95 (128.65 to 129.65): V
Ion 126.90 (126.60 to 127.60): V





#51

Chlorobenzene

Concen: 4.762 ug/L

RT: 9.47 min Scan# 2527

Delta R.T. -0.00 min

Lab File: VU038858.D

Acq: 12 Jun 2020 17:51

Instrument :

MSVOA_U

ClientSampled :

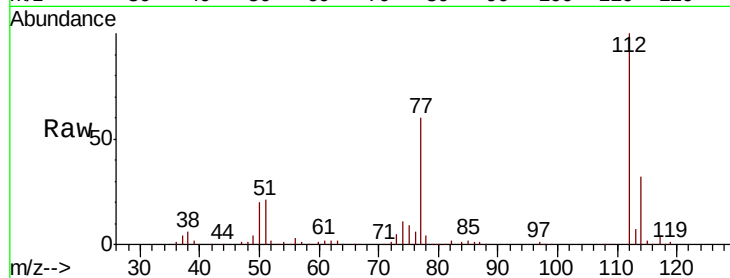
Tot Ion:112 Resp: 274977

Ion Ratio Lower Upper

112 100

114 32.2 22.5 41.9

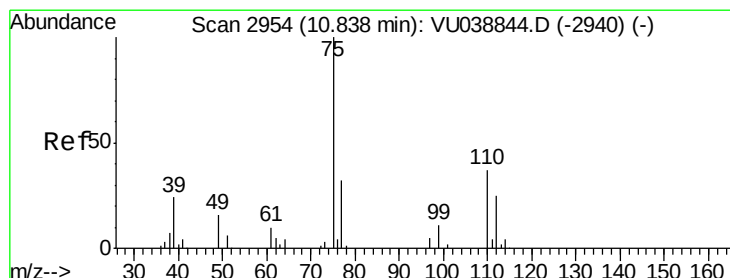
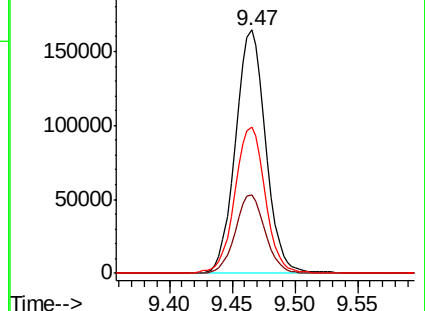
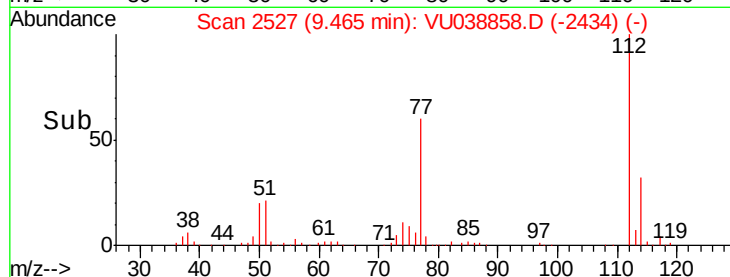
77 59.9 49.3 73.9



Abundance Ion 112.10 (111.80 to 112.80): V

Ion 114.05 (113.75 to 114.75): V

Ion 77.10 (76.80 to 77.80): VU



#59

1,2,3-Trichloropropane

Concen: 1.031 ug/L

RT: 11.82 min Scan# 3260

Delta R.T. 0.98 min

Lab File: VU038858.D

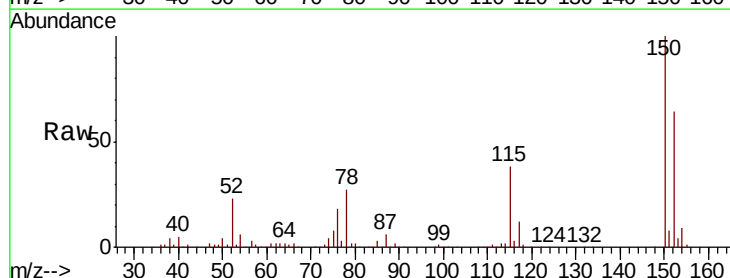
Acq: 12 Jun 2020 17:51

Tgt Ion: 75 Resp: 16371

Ion Ratio Lower Upper

75 100

77 39.0 25.8 38.8#



Abundance Ion 75.00 (74.70 to 75.70): VU

Ion 77.00 (76.70 to 77.70): VU

