

Data Path : Z:\VOASRV\HPCHEM1\MSVOA U\DATA\U121019\
 Data File : VU036081.D
 Acq On : 10 Dec 2019 13:50
 Operator : JC/MD
 Sample : K6168-05
 Misc : 25.0mL/MSVOA U/WATER
 ALS Vial : 11 Sample Multiplier: 1

Instrument :
 MSVOA_U
 ClientSampleId :

Quant Time: Dec 11 06:31:05 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_U\METHOD\SOMUTR120919WMA.M
 Quant Title : TRACE VOA SOM01.0
 QLast Update : Wed Dec 11 06:27:41 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Difluorobenzene	6.29	114	295768	5.00	ug/L	0.00
28) Chlorobenzene-d5	9.45	117	333577	5.00	ug/L	0.00
60) 1,4-Dichlorobenzene-d4	11.84	152	89067	5.00	ug/L	0.00

System Monitoring Compounds

4) Vinyl Chloride-d3	1.62	65	133962	5.08	ug/L	0.00
Spiked Amount	5.000	Range	40 - 130	Recovery	=	101.60%
7) Chloroethane-d5	1.93	69	128102	4.63	ug/L	0.00
Spiked Amount	5.000	Range	65 - 130	Recovery	=	92.60%
11) 1,1-Dichloroethene-d2	2.59	63	162180	3.36	ug/L	0.00
Spiked Amount	5.000	Range	60 - 125	Recovery	=	67.20%
20) 2-Butanone-d5	4.68	46	230217	51.25	ug/L	-0.01
Spiked Amount	50.000	Range	40 - 130	Recovery	=	102.50%
24) Chloroform-d	5.11	84	197959	4.62	ug/L	0.00
Spiked Amount	5.000	Range	70 - 125	Recovery	=	92.40%
26) 1,2-Dichloroethane-d4	5.75	65	110822	5.00	ug/L	0.00
Spiked Amount	5.000	Range	70 - 130	Recovery	=	100.00%
32) Benzene-d6	5.77	84	419939	4.97	ug/L	0.00
Spiked Amount	5.000	Range	70 - 125	Recovery	=	99.40%
36) 1,2-Dichloropropane-d6	6.73	67	135932	5.34	ug/L	0.00
Spiked Amount	5.000	Range	60 - 140	Recovery	=	106.80%
41) Toluene-d8	7.93	98	345740	4.44	ug/L	0.00
Spiked Amount	5.000	Range	70 - 130	Recovery	=	88.80%
43) trans-1,3-Dichloropropene-	8.21	79	47495	4.48	ug/L	0.00
Spiked Amount	5.000	Range	55 - 130	Recovery	=	89.60%
46) 2-Hexanone-d5	8.70	63	210354	54.78	ug/L	0.02
Spiked Amount	50.000	Range	45 - 130	Recovery	=	109.56%
57) 1,1,2,2-Tetrachloroethane-	10.79	84	117339	5.01	ug/L	0.00
Spiked Amount	5.000	Range	65 - 120	Recovery	=	100.20%
64) 1,2-Dichlorobenzene-d4	12.22	152	92146	5.38	ug/L	0.00
Spiked Amount	5.000	Range	80 - 120	Recovery	=	107.60%

Target Compounds

Target Compounds	R.T.	QIon	Response	Conc	Units	Ovalue
10) 1,1,2-Trichloro-1,2,2-trif	2.60	101	4239	0.148	ug/L #	61
12) 1,1-Dichloroethene	2.61	96	27220	1.058	ug/L #	1
13) Acetone	2.67	43	9980	1.750	ug/L	92
17) Methyl tert-butyl Ether	3.42	73	18574	0.419	ug/L	98
19) 1,1-Dichloroethane	3.92	63	72282	1.834	ug/L	99
22) cis-1,2-Dichloroethene	4.72	96	21865	0.949	ug/L	99
25) Chloroform	5.14	83	40741	0.927	ug/L	94
27) 1,2-Dichloroethane	5.84	62	29832	1.149	ug/L	99
29) 1,1,1-Trichloroethane	5.37	97	11591	0.308	ug/L	97
34) Trichloroethene	6.58	95	57676	2.383	ug/L	97
35) Methylcyclohexane	6.73	83	32417	0.998	ug/L #	19
37) 1,2-Dichloropropane	6.73	63	13596	0.594	ug/L #	87
47) Tetrachloroethene	8.58	164	746800	32.450	ug/L	99
48) 2-Hexanone	8.70	43	22879	2.670	ug/L #	72
49) Dibromochloromethane	8.58	129	644523	26.968	ug/L #	12
50) 1,2-Dibromoethane	8.96	107	3280	0.188	ug/L #	95
59) 1,2,3-Trichloropropane	11.84	75	9581	0.586	ug/L	99

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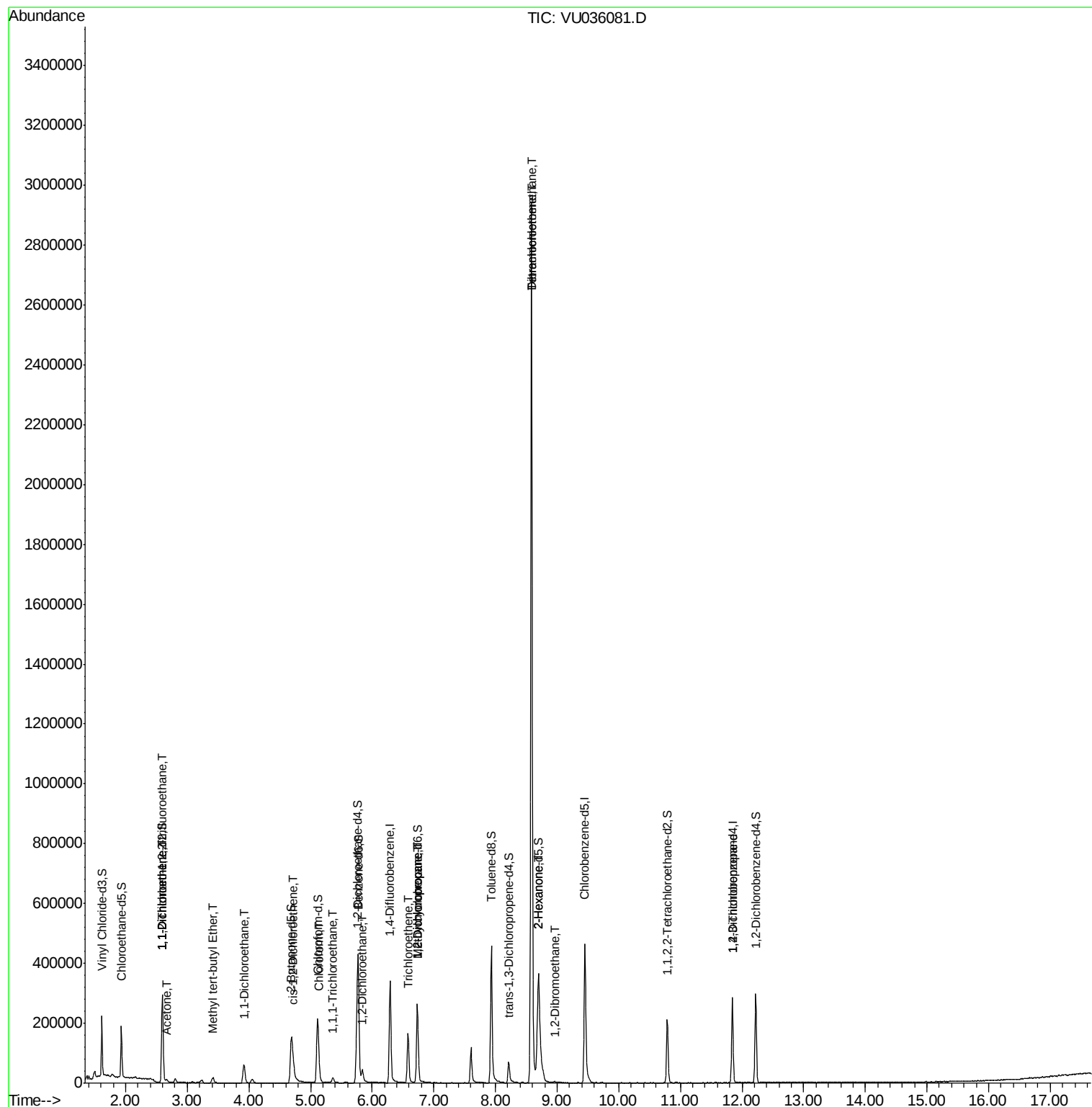
Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
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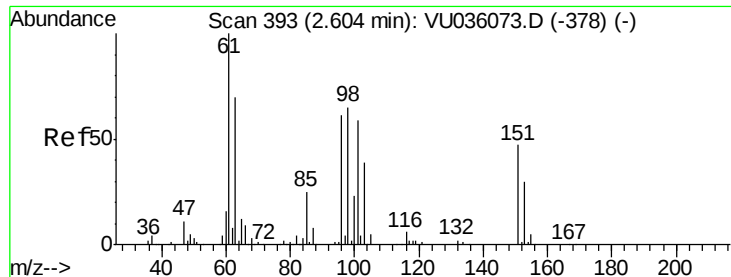
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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QLast Update : Wed Dec 11 06:27:41 2019
Response via : Initial Calibration





#10

1,1,2-Trichloro-1,2,2-trifluoroethane

Concen: 0.148 ug/L

RT: 2.60 min Scan# 393

Delta R.T. 0.00 min

Lab File: VU036081.D

Acq: 10 Dec 2019 13:50

Instrument :

MSVOA_U

ClientSampleId :

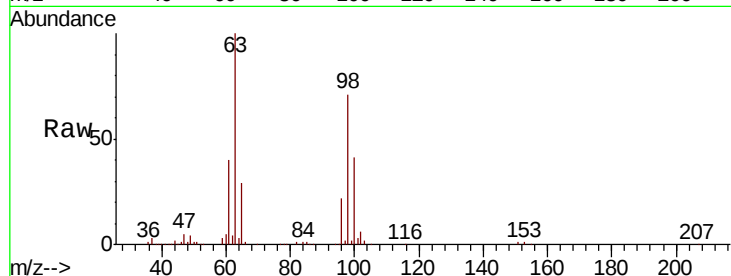
Tot Ion:101 Resp: 4239

Ion Ratio Lower Upper

101 100

85 15.9 33.1 49.7#

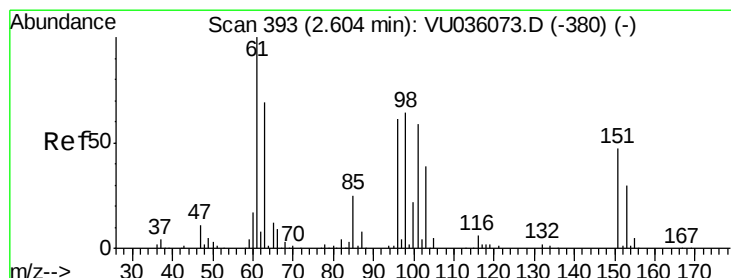
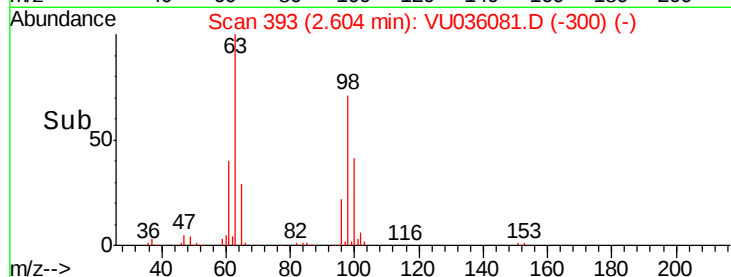
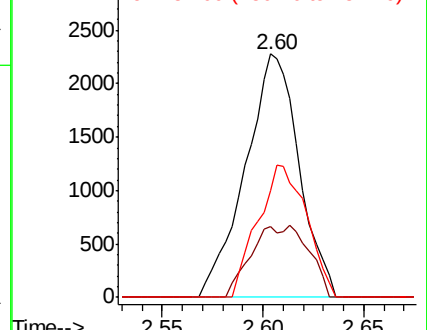
151 49.1 66.5 99.7#



Abundance Ion 101.00 (100.70 to 101.70): V

Ion 85.00 (84.70 to 85.70): VU0

Ion 151.00 (150.70 to 151.70): V



#12

1,1-Dichloroethene

Concen: 1.058 ug/L

RT: 2.61 min Scan# 394

Delta R.T. 0.00 min

Lab File: VU036081.D

Acq: 10 Dec 2019 13:50

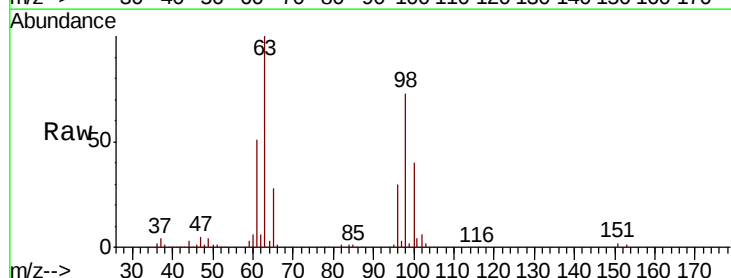
Tgt Ion: 96 Resp: 27220

Ion Ratio Lower Upper

96 100

61 170.7 104.3 193.7

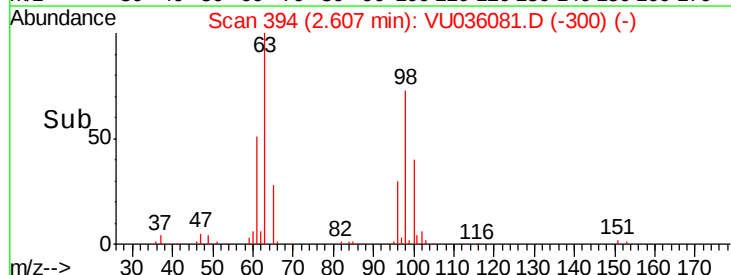
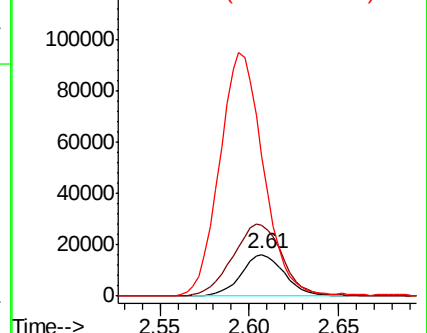
63 336.7 65.6 121.8#

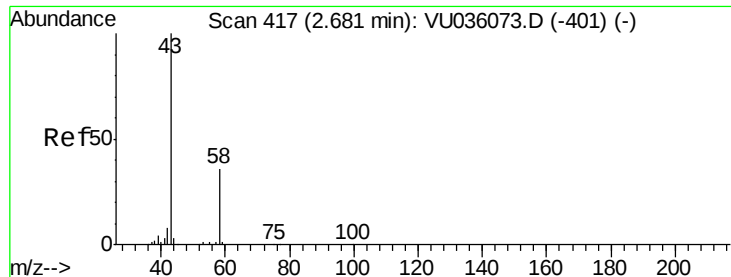


Abundance Ion 96.00 (95.70 to 96.70): VU0

Ion 61.05 (60.75 to 61.75): VU0

Ion 63.00 (62.70 to 63.70): VU0





#13

Acetone

Concen: 1.750 ug/L

RT: 2.67 min Scan# 413

Delta R.T. -0.01 min

Lab File: VU036081.D

Acq: 10 Dec 2019 13:50

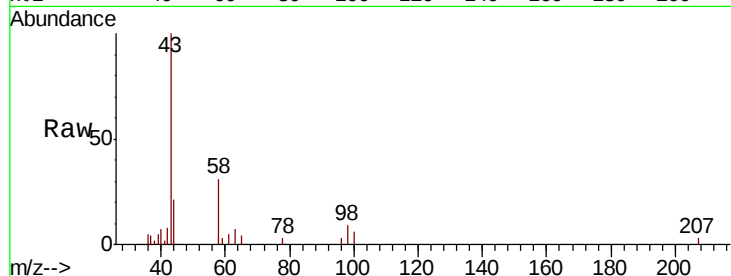
Instrument :
MSVOA_U
ClientSampleId :

Tot Ion: 43 Resp: 9980

Ion Ratio Lower Upper

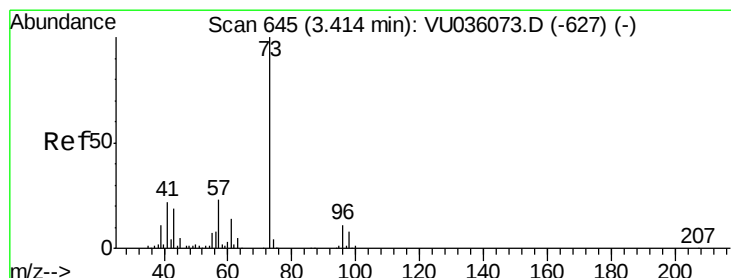
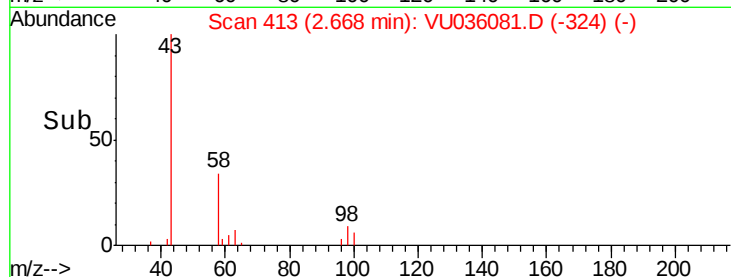
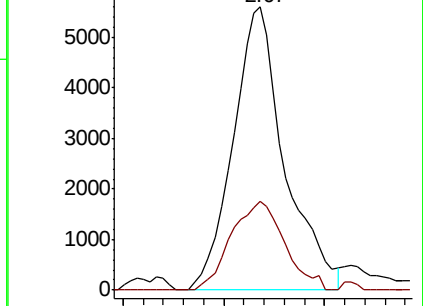
43 100

58 32.5 0.0 74.2



Abundance Ion 43.05 (42.75 to 43.75): VU036081.D (-324) (-)

Ion 58.05 (57.75 to 58.75): VU036081.D (-324) (-)



#17

Methyl tert-butyl Ether

Concen: 0.419 ug/L

RT: 3.42 min Scan# 647

Delta R.T. 0.01 min

Lab File: VU036081.D

Acq: 10 Dec 2019 13:50

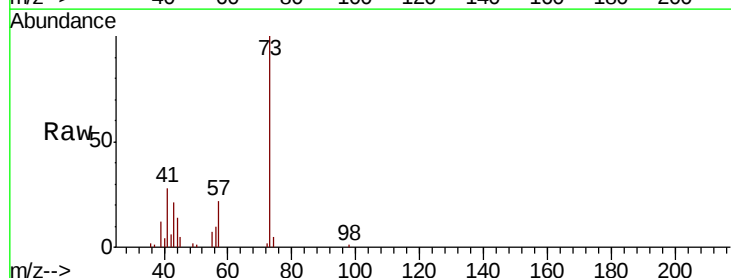
Tgt Ion: 73 Resp: 18574

Ion Ratio Lower Upper

73 100

43 21.1 15.6 23.4

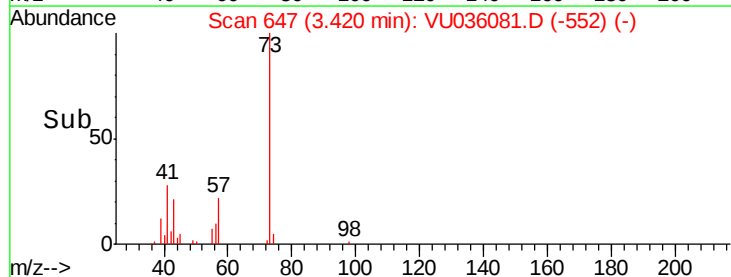
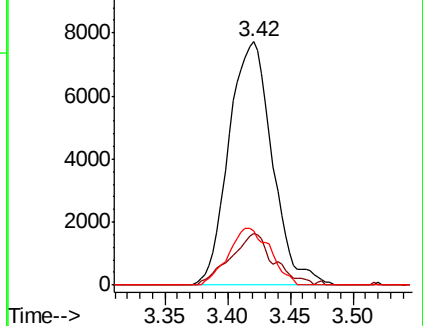
57 22.5 17.4 26.2

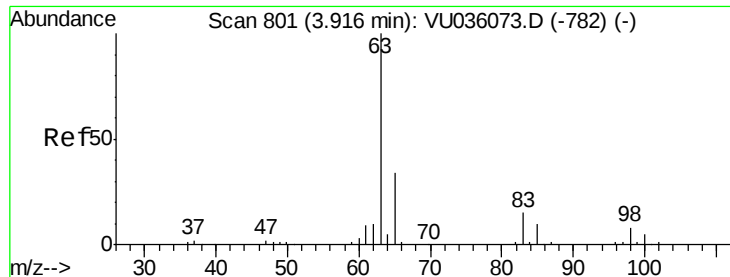


Abundance Ion 73.10 (72.80 to 73.80): VU036081.D (-552) (-)

Ion 43.05 (42.75 to 43.75): VU036081.D (-552) (-)

Ion 57.10 (56.80 to 57.80): VU036081.D (-552) (-)





#19

1,1-Dichloroethane

Concen: 1.834 ug/L

RT: 3.92 min Scan# 803

Delta R.T. 0.01 min

Lab File: VU036081.D

Acq: 10 Dec 2019 13:50

Instrument :

MSVOA_U

ClientSampled :

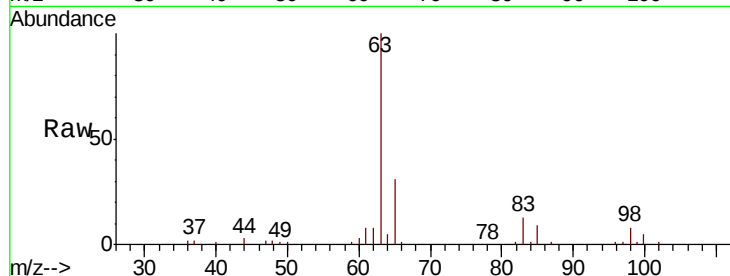
Tot Ion: 63 Resp: 72282

Ion Ratio Lower Upper

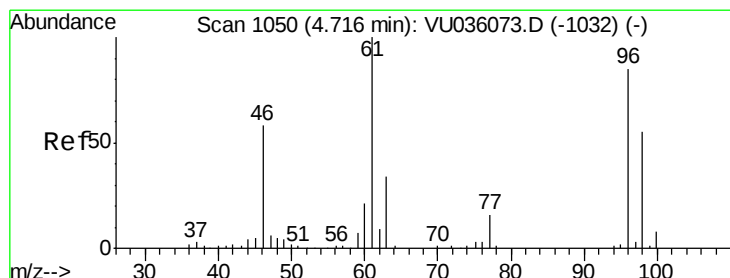
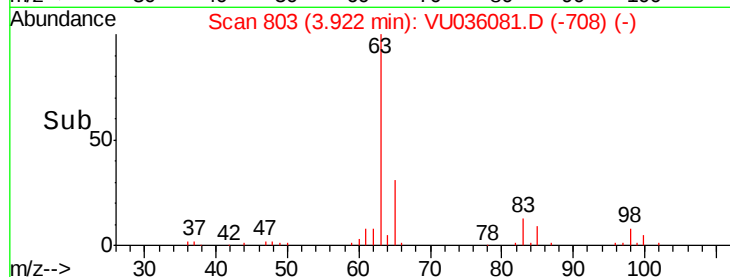
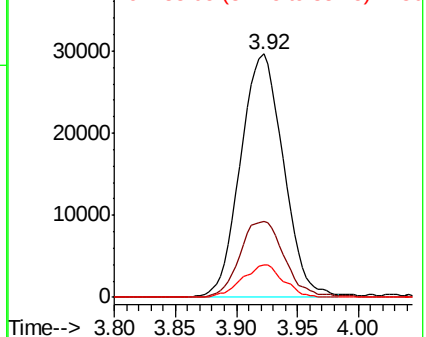
63 100

65 31.0 21.8 40.4

83 13.5 10.1 18.9



Abundance Ion 63.10 (62.80 to 63.80): VU0
Ion 65.10 (64.80 to 65.80): VU0
Ion 83.05 (82.75 to 83.75): VU0



#22

cis-1,2-Dichloroethene

Concen: 0.949 ug/L

RT: 4.72 min Scan# 1051

Delta R.T. 0.00 min

Lab File: VU036081.D

Acq: 10 Dec 2019 13:50

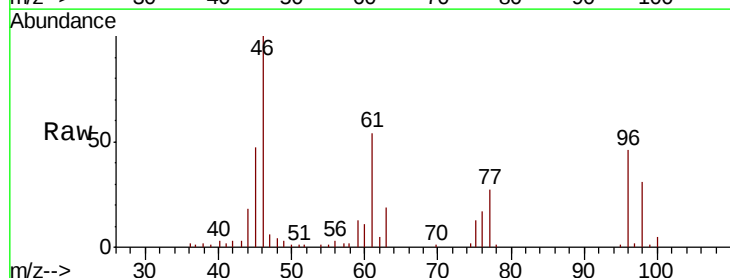
Tgt Ion: 96 Resp: 21865

Ion Ratio Lower Upper

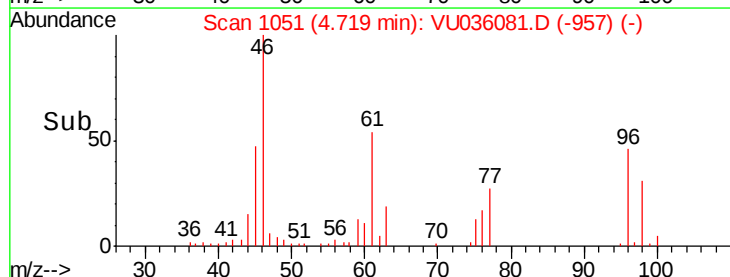
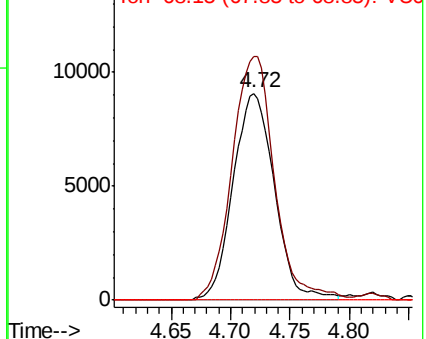
96 100

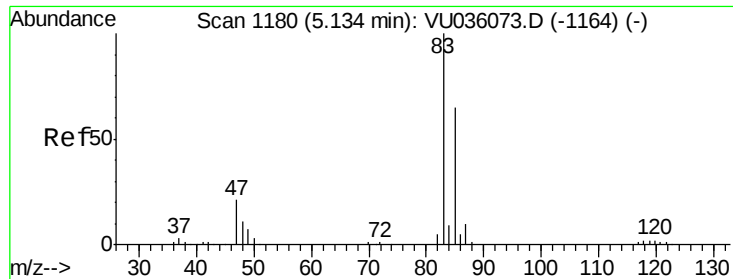
61 117.8 83.0 154.2

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

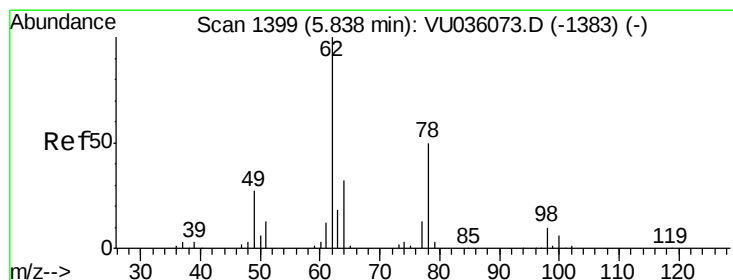
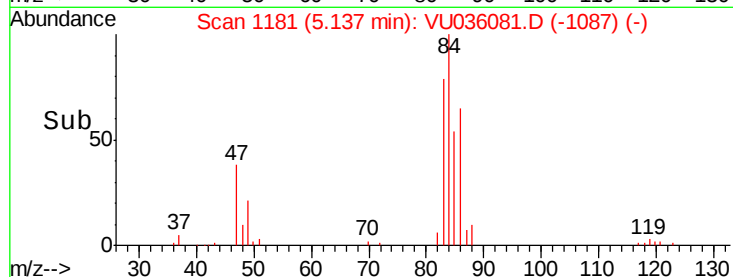
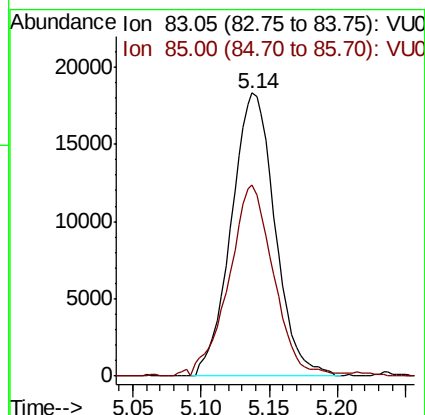
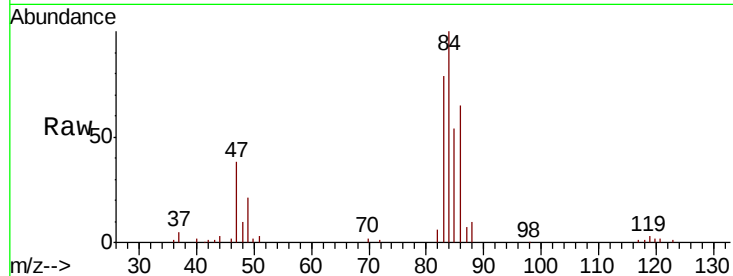




#25
Chloroform
Concen: 0.927 ug/L
RT: 5.14 min Scan# 1181
Delta R.T. 0.00 min
Lab File: VU036081.D
Acq: 10 Dec 2019 13:50

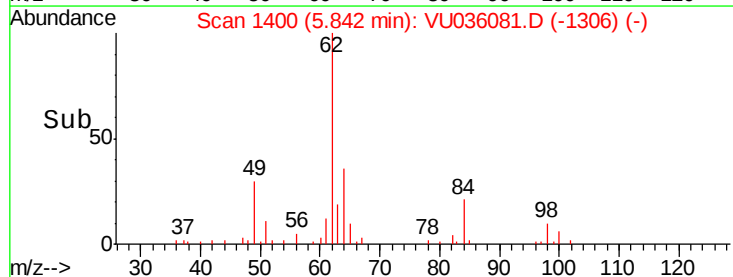
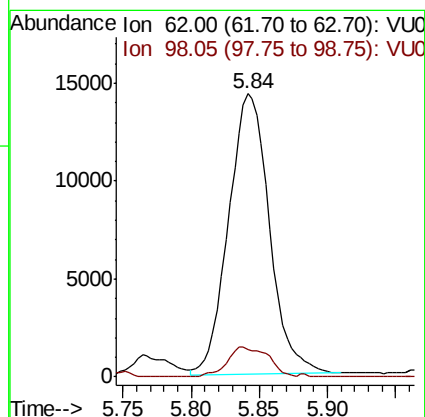
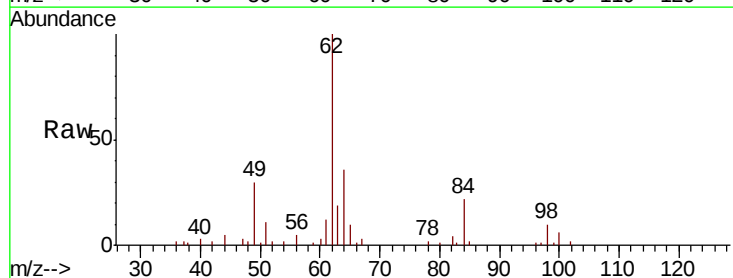
Instrument :
MSVOA_U
ClientSampleId :

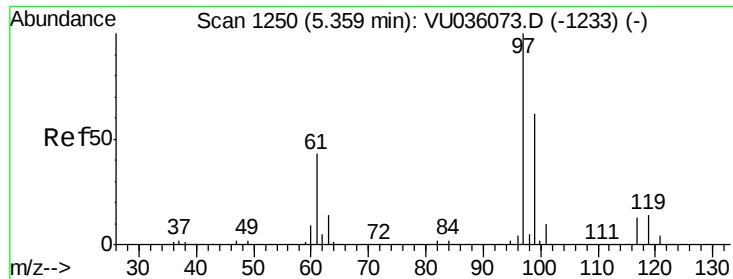
Tot Ion: 83 Resp: 40741
Ion Ratio Lower Upper
83 100
85 67.5 43.9 81.5



#27
1,2-Dichloroethane
Concen: 1.149 ug/L
RT: 5.84 min Scan# 1400
Delta R.T. 0.00 min
Lab File: VU036081.D
Acq: 10 Dec 2019 13:50

Tgt Ion: 62 Resp: 29832
Ion Ratio Lower Upper
62 100
98 9.8 8.2 12.2

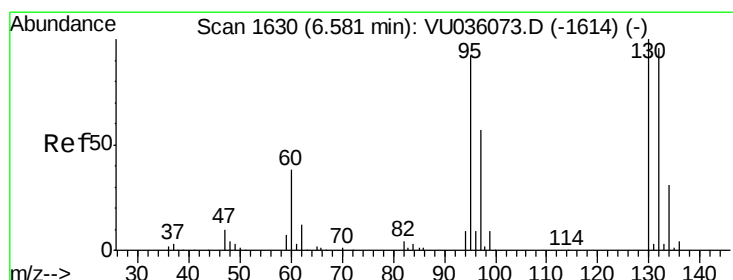
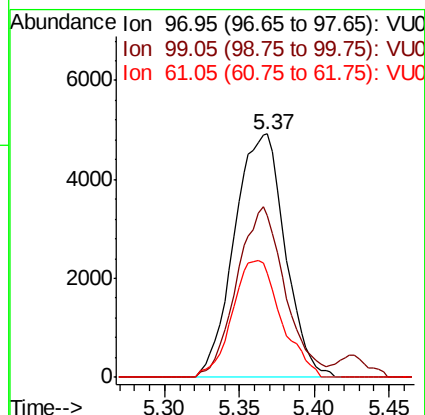
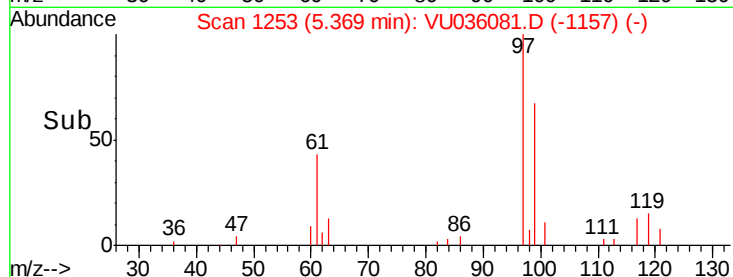
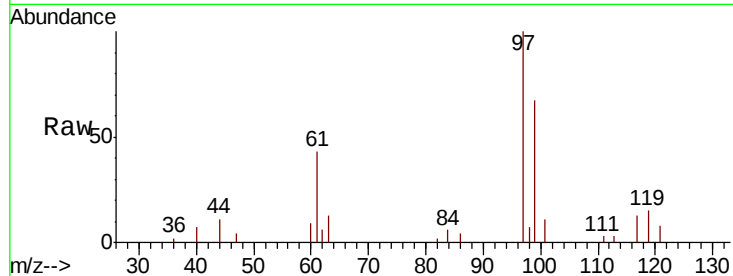




#29
1,1,1-Trichloroethane
Concen: 0.308 ug/L
RT: 5.37 min Scan# 1253
Delta R.T. 0.01 min
Lab File: VU036081.D
Acq: 10 Dec 2019 13:50

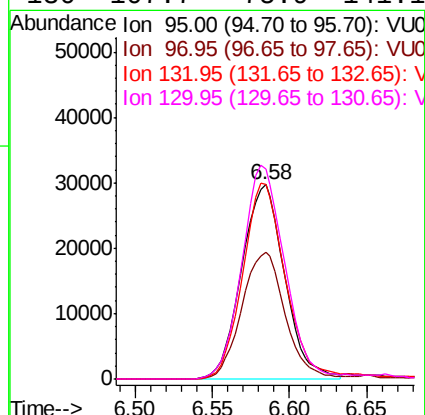
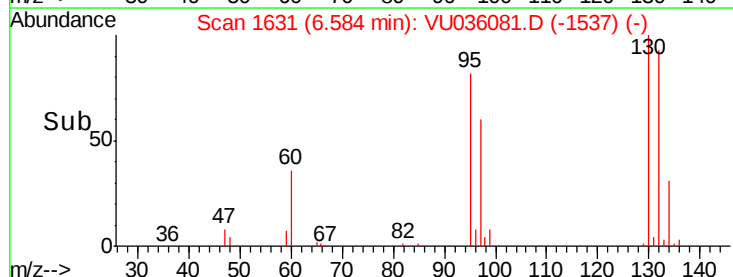
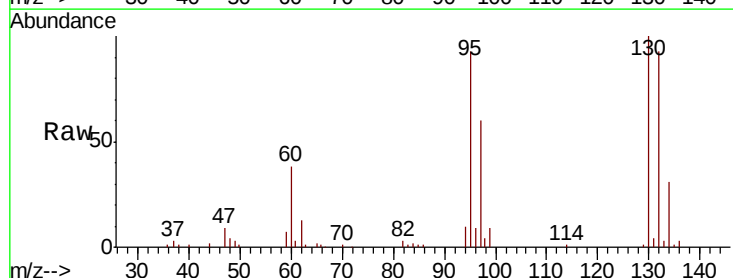
Instrument :
MSVOA_U
ClientSampleId :

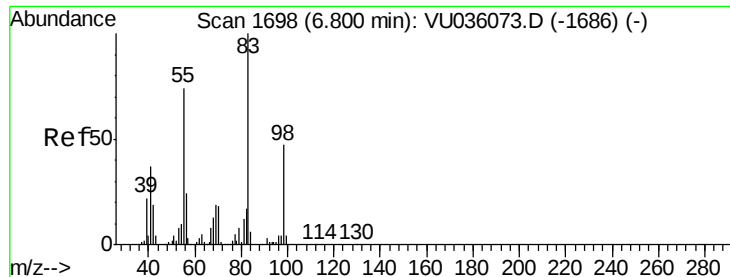
Tot Ion: 97 Resp: 11591
Ion Ratio Lower Upper
97 100
99 66.4 52.2 78.2
61 46.0 34.7 52.1



#34
Trichloroethene
Concen: 2.383 ug/L
RT: 6.58 min Scan# 1631
Delta R.T. 0.00 min
Lab File: VU036081.D
Acq: 10 Dec 2019 13:50

Tgt Ion: 95 Resp: 57676
Ion Ratio Lower Upper
95 100
97 65.1 44.4 82.4
132 100.2 73.4 136.4
130 107.7 75.9 141.1





#35

Methylcyclohexane

Concen: 0.998 ug/L

RT: 6.73 min Scan# 1677

Delta R.T. -0.07 min

Lab File: VU036081.D

Acq: 10 Dec 2019 13:50

Instrument :

MSVOA_U

ClientSampleId :

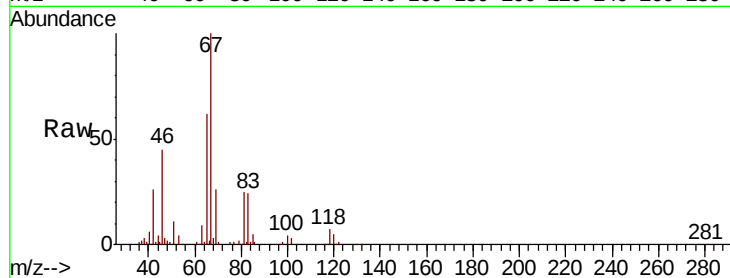
Tot Ion: 83 Resp: 32417

Ion Ratio Lower Upper

83 100

55 0.4 62.1 93.1#

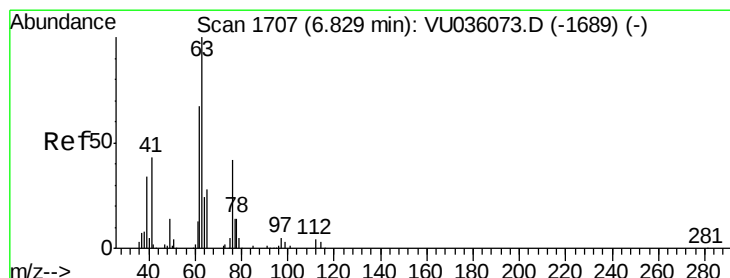
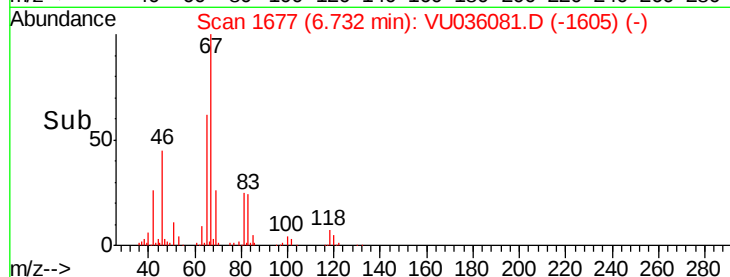
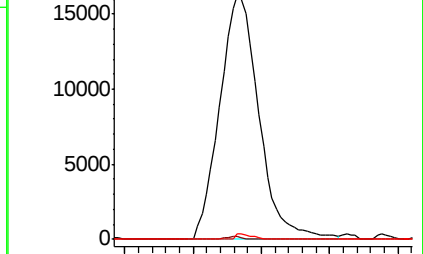
98 0.9 37.0 55.4#



Abundance Ion 83.15 (82.85 to 83.85): VU036073.D (-1686) (-)

Ion 55.10 (54.80 to 55.80): VU036073.D (-1686) (-)

Ion 98.15 (97.85 to 98.85): VU036073.D (-1686) (-)



#37

1,2-Dichloropropane

Concen: 0.594 ug/L

RT: 6.73 min Scan# 1676

Delta R.T. -0.10 min

Lab File: VU036081.D

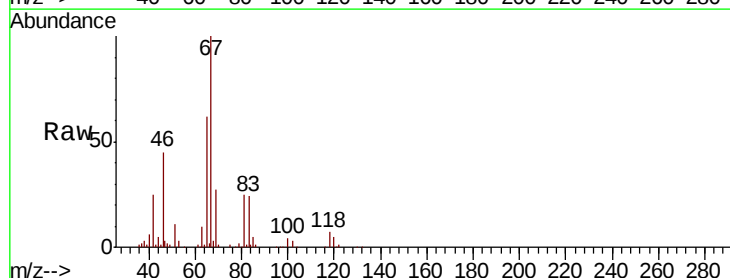
Acq: 10 Dec 2019 13:50

Tgt Ion: 63 Resp: 13596

Ion Ratio Lower Upper

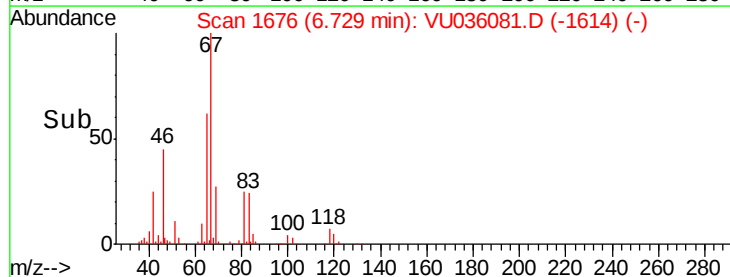
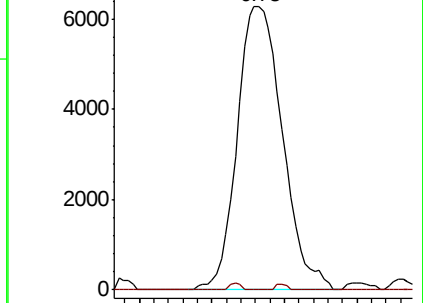
63 100

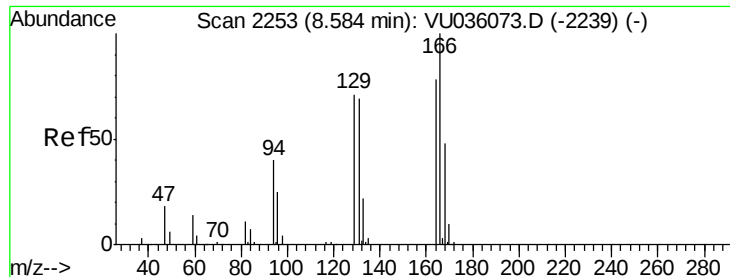
112 0.6 3.8 5.8#



Abundance Ion 63.10 (62.80 to 63.80): VU036073.D (-1689) (-)

Ion 112.10 (111.80 to 112.80): VU036073.D (-1689) (-)





#47

Tetrachloroethene

Concen: 32.450 ug/L

RT: 8.58 min Scan# 2253

Delta R.T. 0.00 min

Lab File: VU036081.D

Acq: 10 Dec 2019 13:50

Instrument :

MSVOA_U

ClientSampleId :

Tot Ion:164 Resp: 746800

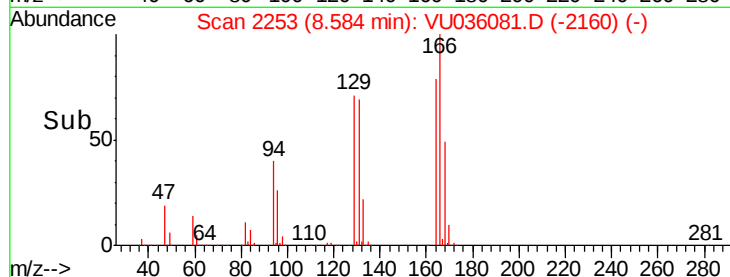
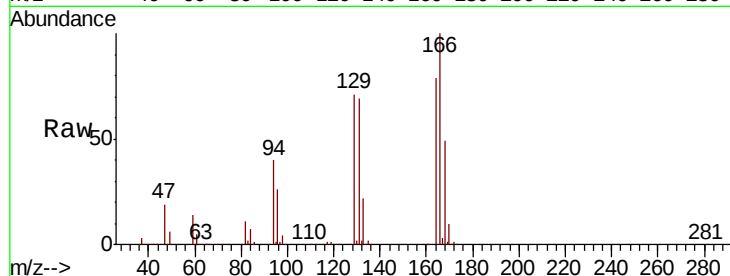
Ion Ratio Lower Upper

164 100

129 89.9 63.1 117.3

131 88.2 61.5 114.1

166 127.1 91.0 169.0

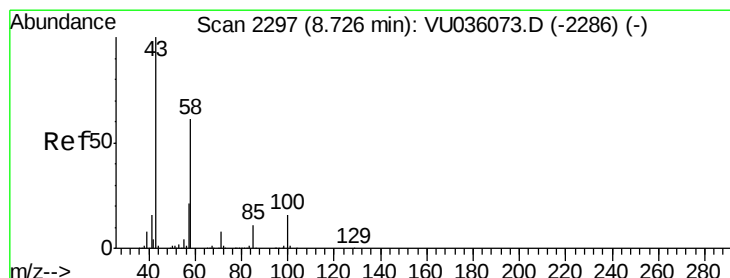
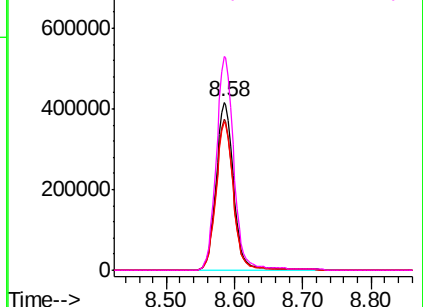


Abundance Ion 163.90 (163.60 to 164.60): V

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



#48

2-Hexanone

Concen: 2.670 ug/L

RT: 8.70 min Scan# 2288

Delta R.T. -0.03 min

Lab File: VU036081.D

Acq: 10 Dec 2019 13:50

Tgt Ion: 43 Resp: 22879

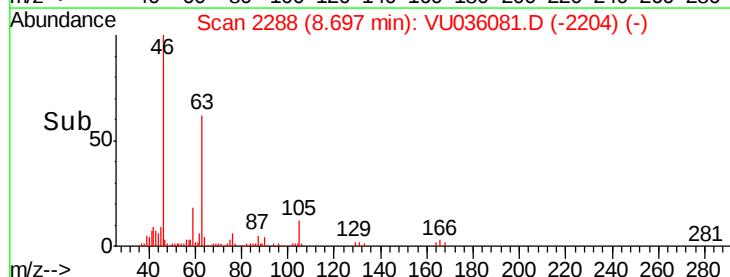
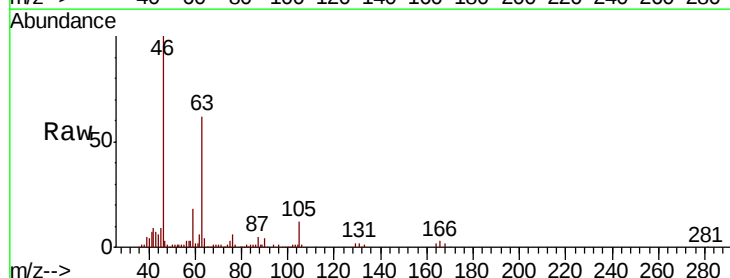
Ion Ratio Lower Upper

43 100

58 41.4 46.9 70.3#

57 39.7 16.4 24.6#

100 1.0 11.0 16.4#

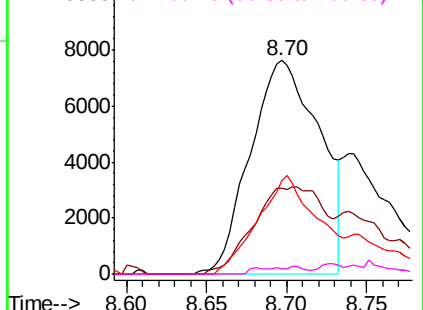


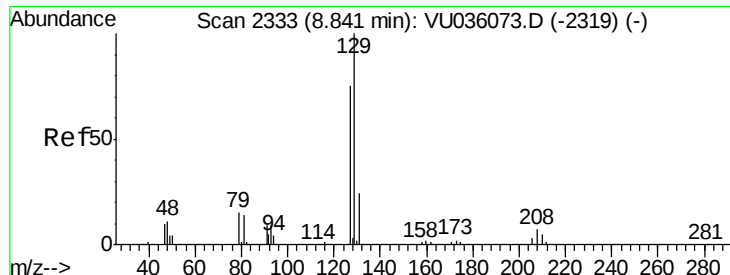
Abundance Ion 43.05 (42.75 to 43.75): VU0

Ion 58.05 (57.75 to 58.75): VU0

Ion 57.20 (56.90 to 57.90): VU0

Ion 100.15 (99.85 to 100.85): VU0





#49

Dibromochloromethane

Concen: 26.968 ug/L

RT: 8.58 min Scan# 2253

Delta R.T. -0.26 min

Lab File: VU036081.D

Acq: 10 Dec 2019 13:50

Instrument :

MSVOA_U

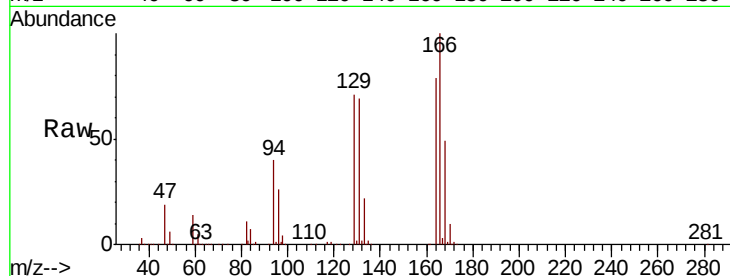
ClientSampleId :

Tot Ion:129 Resp: 644523

Ion Ratio Lower Upper

129 100

127 0.0 52.5 97.5#



Abundance Ion 128.95 (128.65 to 129.65): V

Ion 126.90 (126.60 to 127.60): V

8.58

400000

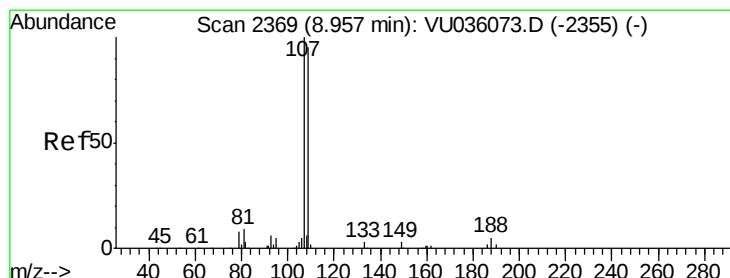
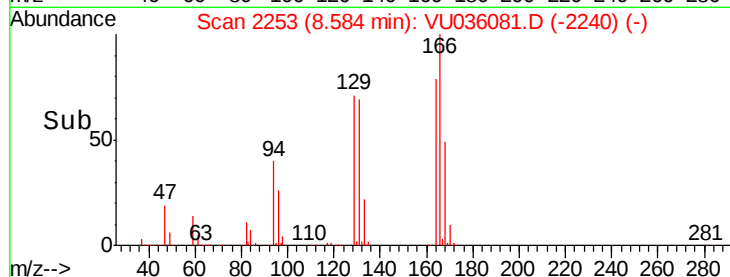
300000

200000

100000

0

Time--> 8.50 8.55 8.60 8.65



#50

1,2-Dibromoethane

Concen: 0.188 ug/L

RT: 8.96 min Scan# 2370

Delta R.T. 0.00 min

Lab File: VU036081.D

Acq: 10 Dec 2019 13:50

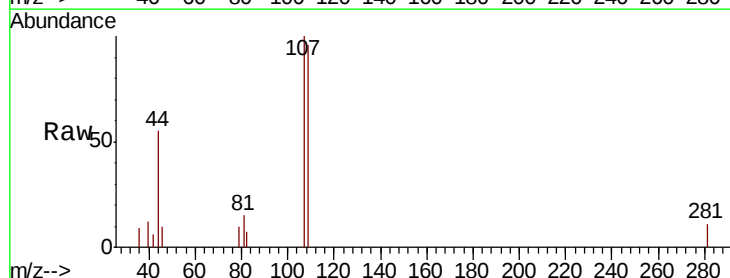
Tgt Ion:107 Resp: 3280

Ion Ratio Lower Upper

107 100

109 95.8 64.3 119.3

188 0.0 3.6 5.4#



Abundance Ion 106.95 (106.65 to 107.65): V

Ion 109.00 (108.70 to 109.70): V

Ion 187.90 (187.60 to 188.60): V

8.96

2000

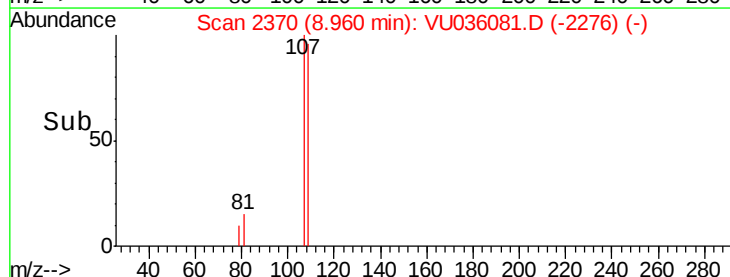
1500

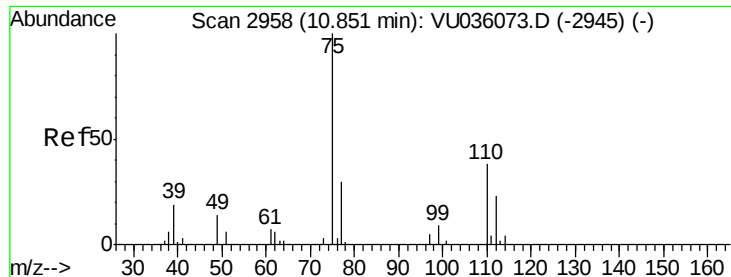
1000

500

0

Time--> 8.90 8.95 9.00





#59

1,2,3-Trichloropropane

Concen: 0.586 ug/L

RT: 11.84 min Scan# 3267

Delta R.T. 0.99 min

Lab File: VU036081.D

Acq: 10 Dec 2019 13:50

Instrument :

MSVOA_U

ClientSampleId :

Tot Ion: 75 Resp: 9581

Ion Ratio Lower Upper

75 100

77 34.1 26.7 40.1

