

Data Path : Z:\VOASRV\HPCHEM1\MSVOA U\DATA\U121119\
 Data File : VU036136.D
 Acq On : 11 Dec 2019 16:24
 Operator : JC/MD
 Sample : K6168-13
 Misc : 25.0mL/MSVOA U/WATER
 ALS Vial : 17 Sample Multiplier: 1

Instrument :
 MSVOA_U
 ClientSampleId :
 BFE46

Quant Time: Dec 12 07:47:03 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_U\METHOD\SOMUTR120919WMA.M
 Quant Title : TRACE VOA SOM01.0
 QLast Update : Thu Dec 12 06:08:55 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Difluorobenzene	6.29	114	313197	5.00	ug/L	0.00
28) Chlorobenzene-d5	9.45	117	338782	5.00	ug/L	0.00
60) 1,4-Dichlorobenzene-d4	11.84	152	81416	5.00	ug/L	0.00

System Monitoring Compounds

4) Vinyl Chloride-d3	1.62	65	124827	4.47	ug/L	0.00
Spiked Amount	5.000	Range	40 - 130	Recovery	=	89.40%
7) Chloroethane-d5	1.93	69	123989	4.23	ug/L	0.00
Spiked Amount	5.000	Range	65 - 130	Recovery	=	84.60%
11) 1,1-Dichloroethene-d2	2.61	63	473374	9.27	ug/L	0.02
Spiked Amount	5.000	Range	60 - 125	Recovery	=	185.40%#
20) 2-Butanone-d5	4.68	46	265269	55.77	ug/L	-0.01
Spiked Amount	50.000	Range	40 - 130	Recovery	=	111.54%
24) Chloroform-d	5.11	84	213416	4.71	ug/L	0.00
Spiked Amount	5.000	Range	70 - 125	Recovery	=	94.20%
26) 1,2-Dichloroethane-d4	5.75	65	112142	4.78	ug/L	0.00
Spiked Amount	5.000	Range	70 - 130	Recovery	=	95.60%
32) Benzene-d6	5.77	84	400496	4.67	ug/L	0.00
Spiked Amount	5.000	Range	70 - 125	Recovery	=	93.40%
36) 1,2-Dichloropropane-d6	6.73	67	131526	5.09	ug/L	0.00
Spiked Amount	5.000	Range	60 - 140	Recovery	=	101.80%
41) Toluene-d8	7.93	98	330838	4.18	ug/L	0.00
Spiked Amount	5.000	Range	70 - 130	Recovery	=	83.60%
43) trans-1,3-Dichloropropene-	8.21	79	46653	4.33	ug/L	0.00
Spiked Amount	5.000	Range	55 - 130	Recovery	=	86.60%
46) 2-Hexanone-d5	8.70	63	202632	51.96	ug/L	0.03
Spiked Amount	50.000	Range	45 - 130	Recovery	=	103.92%
57) 1,1,2,2-Tetrachloroethane-	10.79	84	112977	4.75	ug/L	0.00
Spiked Amount	5.000	Range	65 - 120	Recovery	=	95.00%
64) 1,2-Dichlorobenzene-d4	12.22	152	75284	4.81	ug/L	0.00
Spiked Amount	5.000	Range	80 - 120	Recovery	=	96.20%

Target Compounds

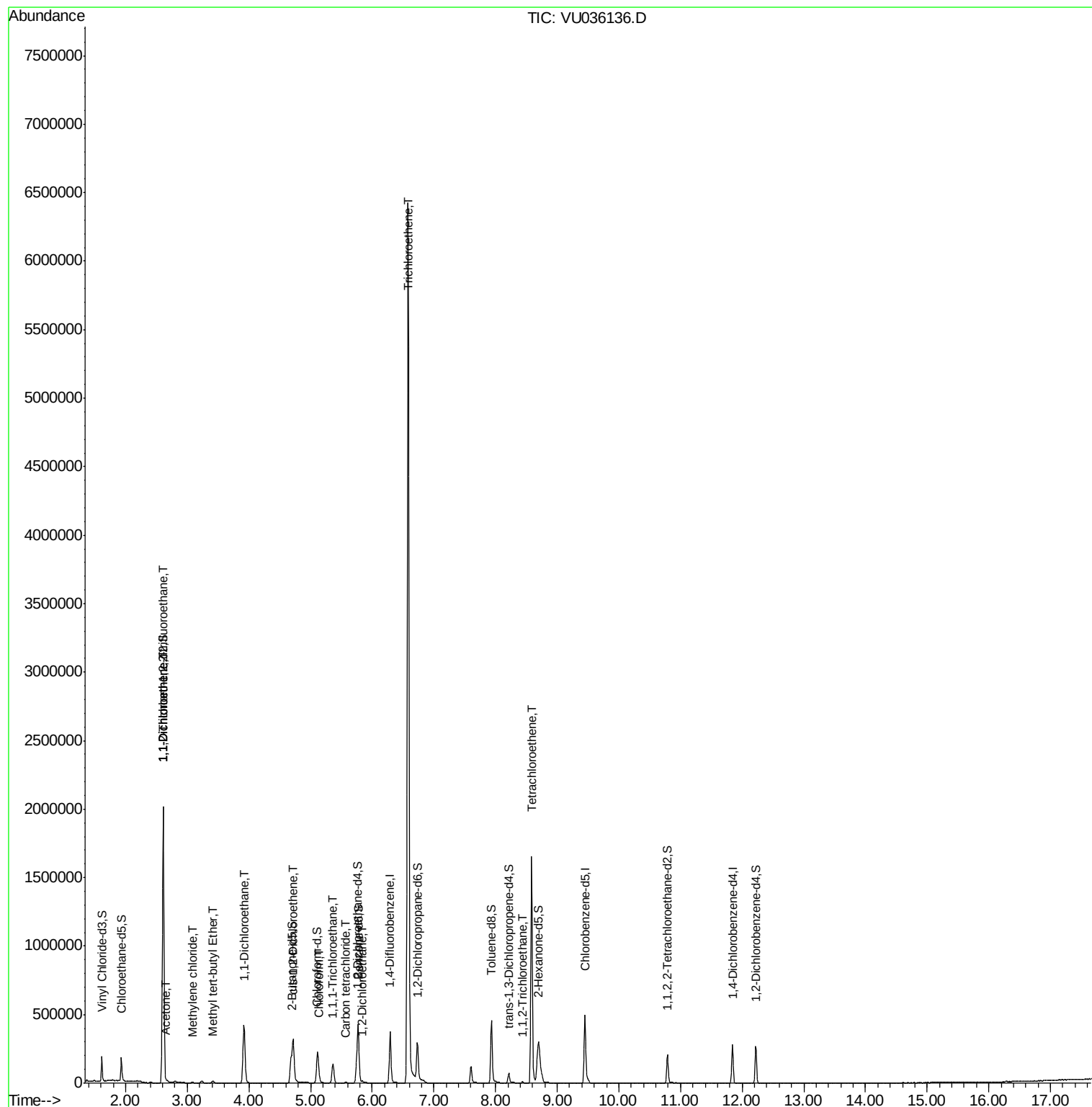
Target Compounds	R.T.	QIon	Response	Conc	Units	Ovalue
10) 1,1,2-Trichloro-1,2,2-trif	2.61	101	9851	0.325	ug/L #	79
12) 1,1-Dichloroethene	2.61	96	677118	24.849	ug/L #	83
13) Acetone	2.66	43	8182	1.355	ug/L	98
16) Methylene chloride	3.09	84	2971	0.094	ug/L	94
17) Methyl tert-butyl Ether	3.41	73	13233	0.282	ug/L	95
19) 1,1-Dichloroethane	3.92	63	498487	11.941	ug/L	98
22) cis-1,2-Dichloroethene	4.72	96	159174	6.521	ug/L	97
25) Chloroform	5.14	83	30165	0.648	ug/L	94
27) 1,2-Dichloroethane	5.84	62	8303	0.302	ug/L	95
29) 1,1,1-Trichloroethane	5.36	97	105381	2.760	ug/L	100
31) Carbon tetrachloride	5.56	117	3807	0.110	ug/L	87
34) Trichloroethene	6.58	95	2257651	91.834	ug/L	97
45) 1,1,2-Trichloroethane	8.44	97	2900	0.159	ug/L	91
47) Tetrachloroethene	8.58	164	402756	17.232	ug/L	100

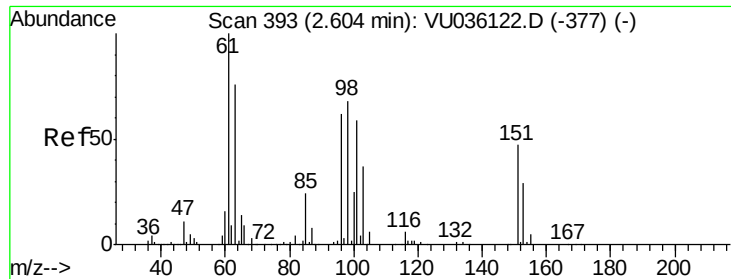
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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Response via : Initial Calibration





#10

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

Concen: 0.325 ug/L

RT: 2.61 min Scan# 395

Delta R.T. 0.01 min

Lab File: VU036136.D

Acq: 11 Dec 2019 16:24

Instrument :

MSVOA_U

ClientSampleId :

BFE46

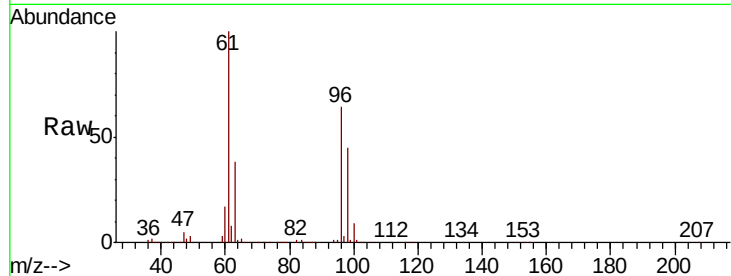
Tot Ion:101 Resp: 9851

Ion Ratio Lower Upper

101 100

85 41.5 33.1 49.7

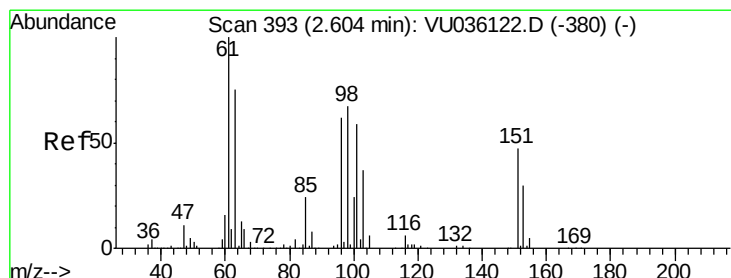
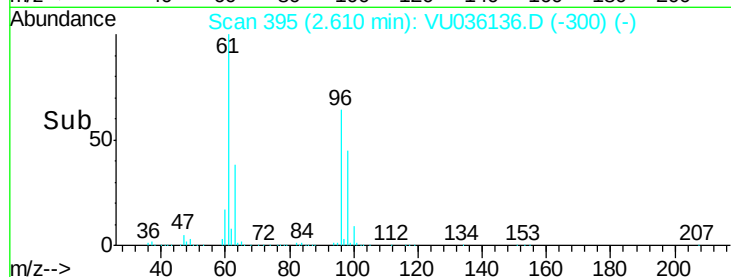
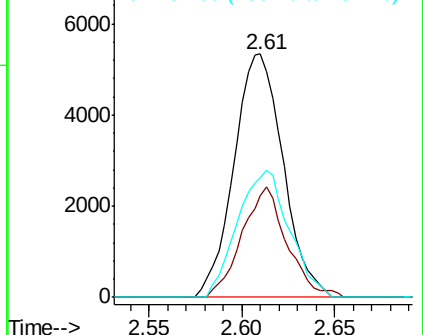
151 55.0 66.5 99.7#



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: 24.849 ug/L

RT: 2.61 min Scan# 395

Delta R.T. 0.01 min

Lab File: VU036136.D

Acq: 11 Dec 2019 16:24

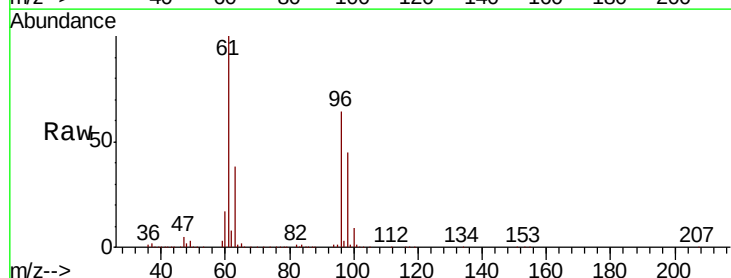
Tgt Ion: 96 Resp: 677118

Ion Ratio Lower Upper

96 100

61 155.9 104.3 193.7

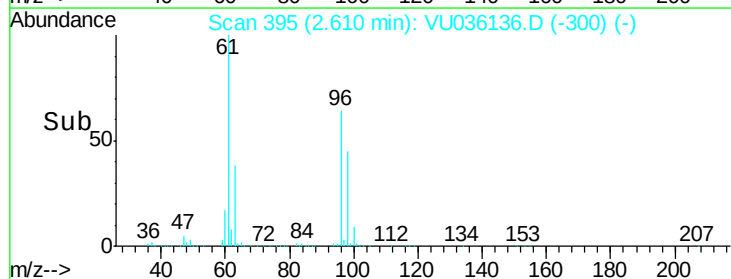
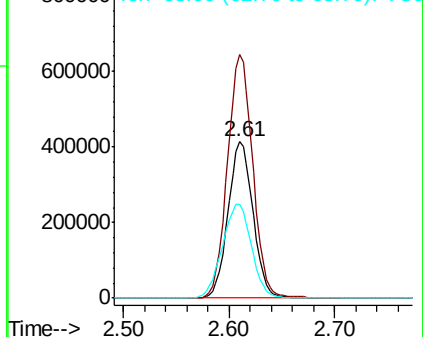
63 59.9 65.6 121.8#

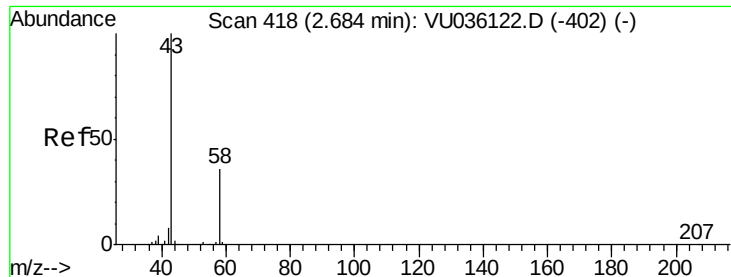


Abundance Ion 96.00 (95.70 to 96.70): VU0

Ion 61.05 (60.75 to 61.75): VU0

Ion 63.00 (62.70 to 63.70): VU0





#13

Acetone

Concen: 1.355 ug/L

RT: 2.66 min Scan# 412

Delta R.T. -0.02 min

Lab File: VU036136.D

Acq: 11 Dec 2019 16:24

Instrument :

MSVOA_U

ClientSampled :

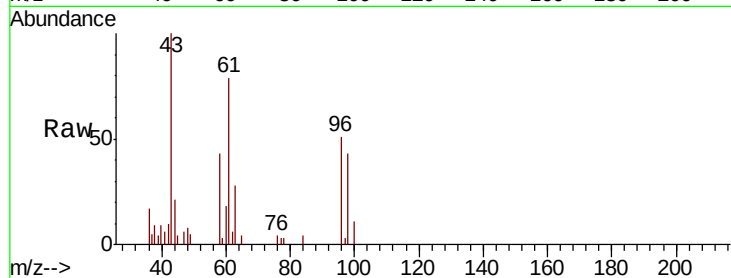
BFE46

Tot Ion: 43 Resp: 8182

Ion Ratio Lower Upper

43 100

58 38.1 0.0 74.2



Abundance Ion 43.05 (42.75 to 43.75): VU036122.D (-402) (-)

Ion 58.05 (57.75 to 58.75): VU036122.D (-402) (-)

2.66

4000

3000

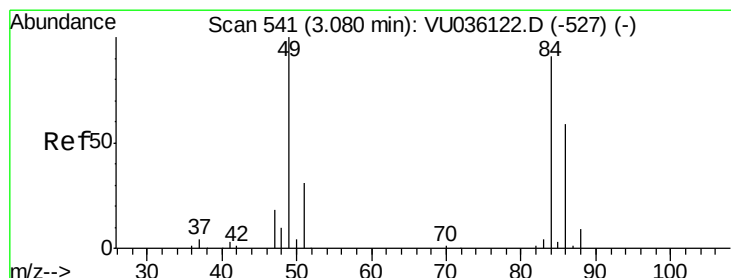
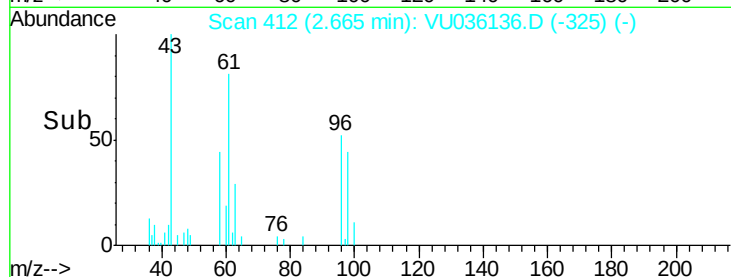
2000

1000

0

Time-->

2.60 2.65 2.70



#16

Methylene chloride

Concen: 0.094 ug/L

RT: 3.09 min Scan# 543

Delta R.T. 0.01 min

Lab File: VU036136.D

Acq: 11 Dec 2019 16:24

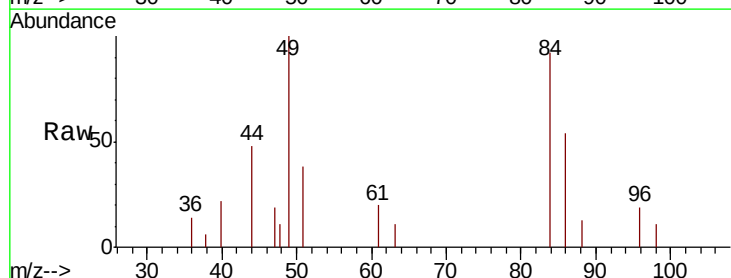
Tgt Ion: 84 Resp: 2971

Ion Ratio Lower Upper

84 100

86 57.9 47.5 88.3

49 108.1 76.9 142.9



Abundance Ion 84.05 (83.75 to 84.75): VU036122.D (-527) (-)

Ion 86.00 (85.70 to 86.70): VU036122.D (-527) (-)

Ion 49.10 (48.80 to 49.80): VU036122.D (-527) (-)

3.09

2000

1500

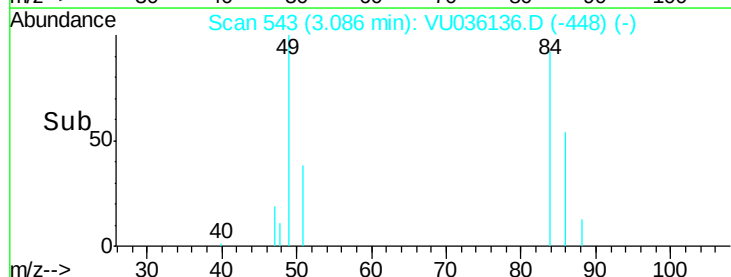
1000

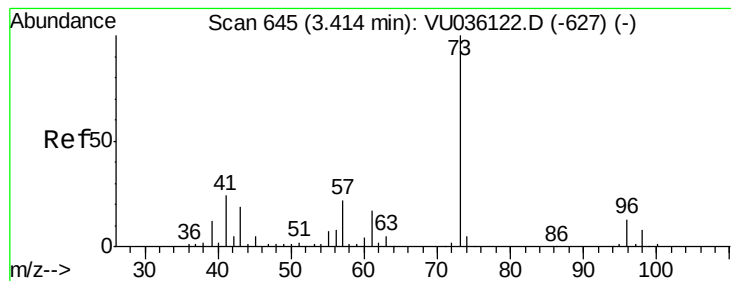
500

0

Time-->

3.05 3.10 3.15





#17

Methyl tert-butyl Ether

Concen: 0.282 ug/L

RT: 3.41 min Scan# 645

Delta R.T. -0.00 min

Lab File: VU036136.D

Acq: 11 Dec 2019 16:24

Instrument :

MSVOA_U

ClientSampleId :

BFE46

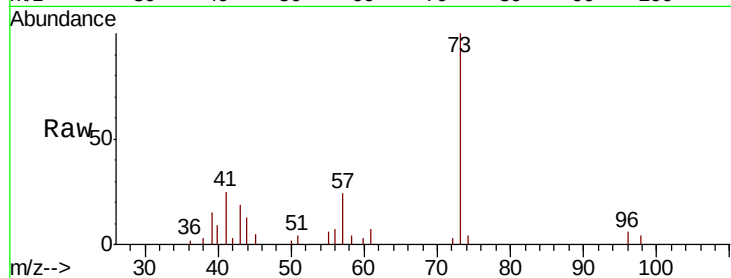
Tot Ion: 73 Resp: 13233

Ion Ratio Lower Upper

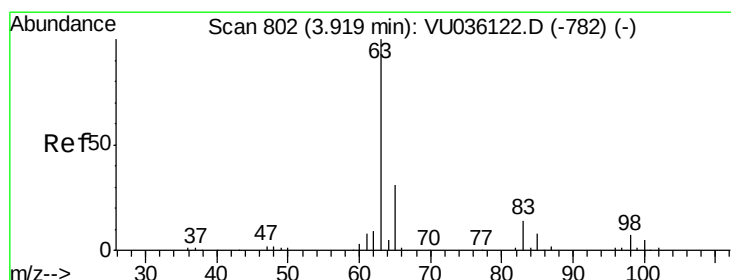
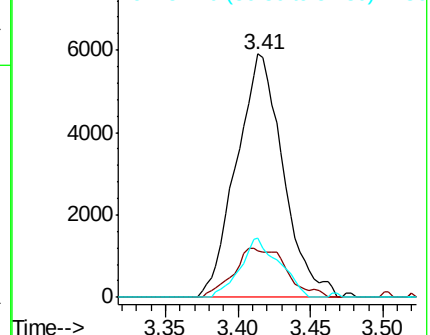
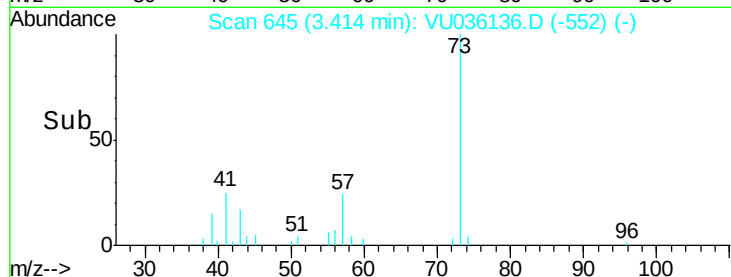
73 100

43 22.7 15.6 23.4

57 20.4 17.4 26.2



Abundance Ion 73.10 (72.80 to 73.80): VU036136.D (-552) (-)



#19

1,1-Dichloroethane

Concen: 11.941 ug/L

RT: 3.92 min Scan# 803

Delta R.T. 0.00 min

Lab File: VU036136.D

Acq: 11 Dec 2019 16:24

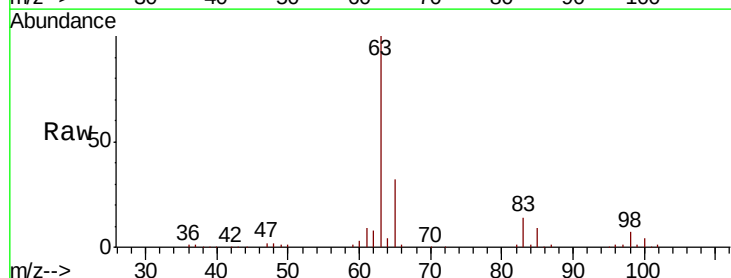
Tgt Ion: 63 Resp: 498487

Ion Ratio Lower Upper

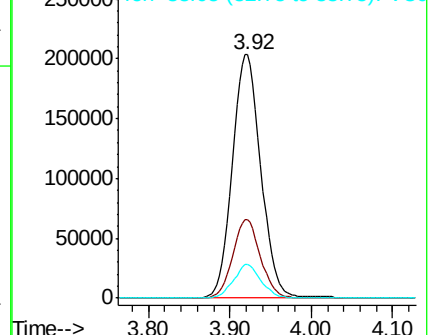
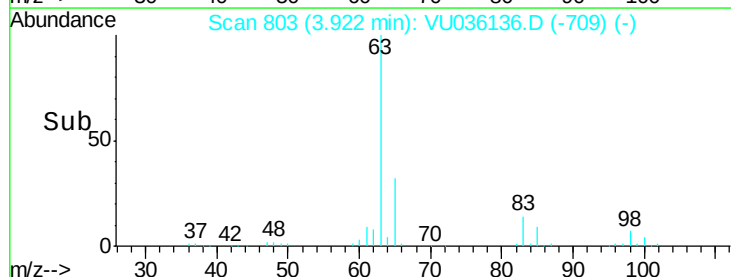
63 100

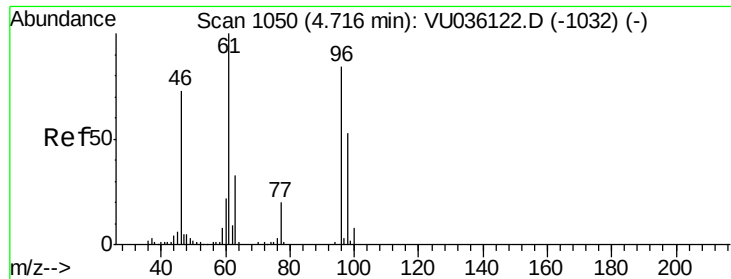
65 32.5 21.8 40.4

83 13.8 10.1 18.9



Abundance Ion 63.10 (62.80 to 63.80): VU036136.D (-709) (-)





#22

cis-1,2-Dichloroethene

Concen: 6.521 ug/L

RT: 4.72 min Scan# 1050

Delta R.T. -0.00 min

Lab File: VU036136.D

Acq: 11 Dec 2019 16:24

Instrument :

MSVOA_U

ClientSampleId :

BFE46

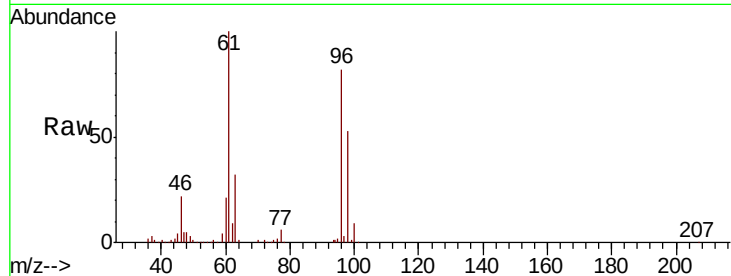
Tot Ion: 96 Resp: 159174

Ion Ratio Lower Upper

96 100

61 122.4 83.0 154.2

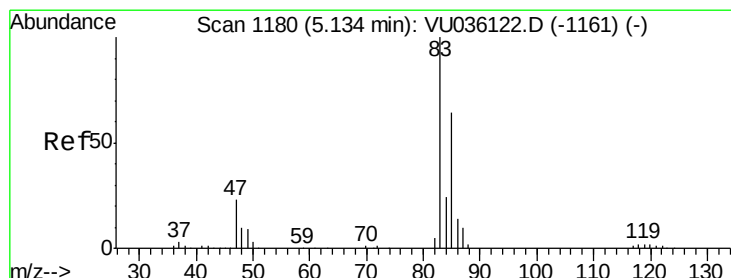
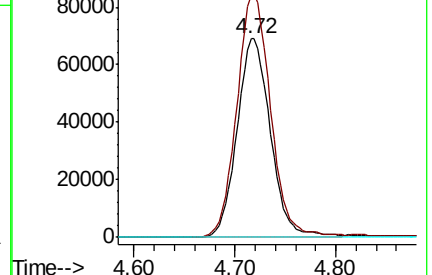
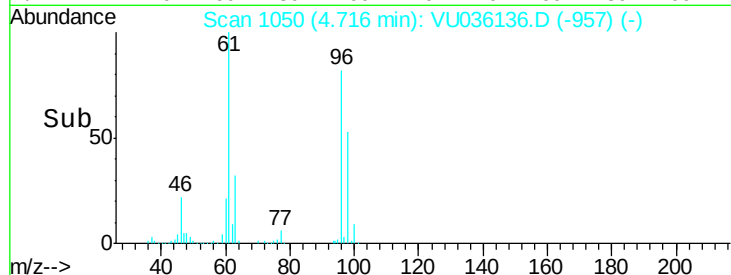
68 0.0 0.0 0.0



Abundance Ion 96.00 (95.70 to 96.70): VU036136.D (-957) (-)

Ion 61.05 (60.75 to 61.75): VU036136.D (-957) (-)

Ion 68.15 (67.85 to 68.85): VU036136.D (-957) (-)



#25

Chloroform

Concen: 0.648 ug/L

RT: 5.14 min Scan# 1181

Delta R.T. 0.00 min

Lab File: VU036136.D

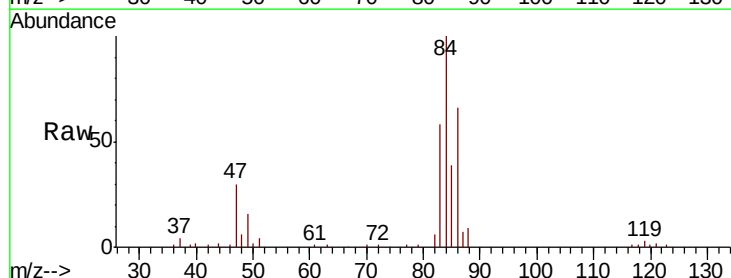
Acq: 11 Dec 2019 16:24

Tgt Ion: 83 Resp: 30165

Ion Ratio Lower Upper

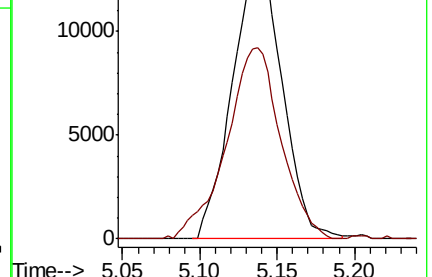
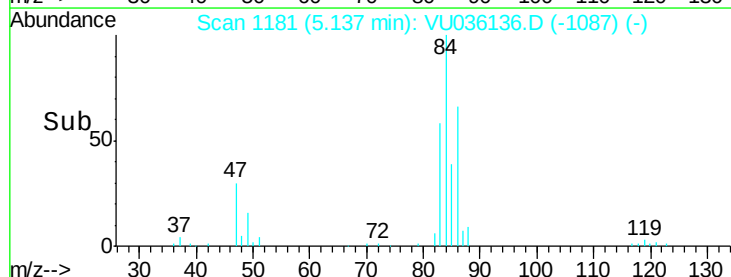
83 100

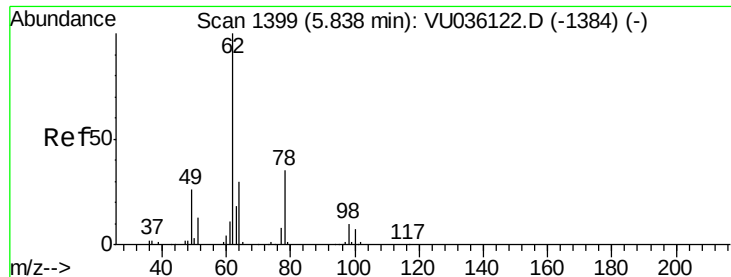
85 67.4 43.9 81.5



Abundance Ion 83.05 (82.75 to 83.75): VU036136.D (-1087) (-)

Ion 85.00 (84.70 to 85.70): VU036136.D (-1087) (-)

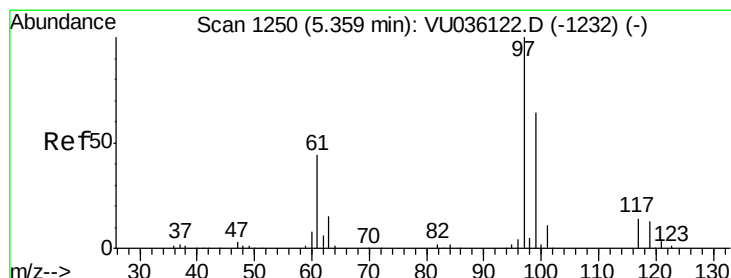
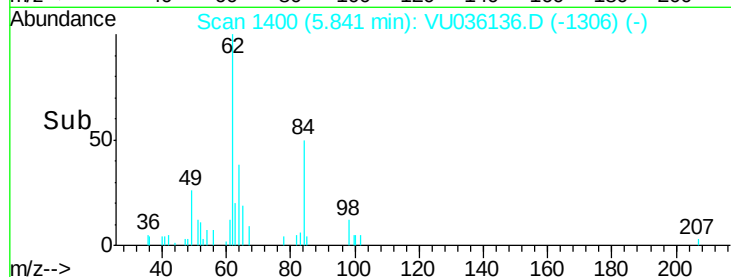
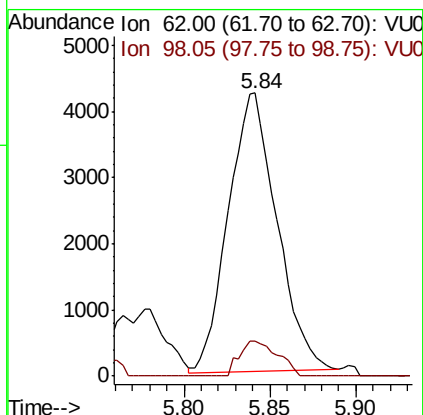
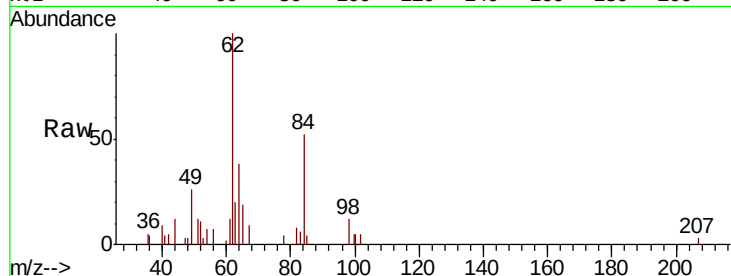




#27
 1,2-Dichloroethane
 Concen: 0.302 ug/L
 RT: 5.84 min Scan# 1400
 Delta R.T. 0.00 min
 Lab File: VU036136.D
 Acq: 11 Dec 2019 16:24

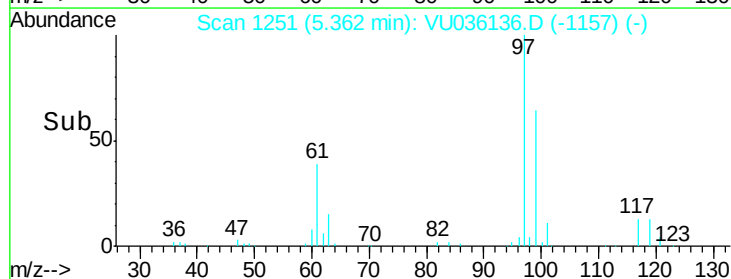
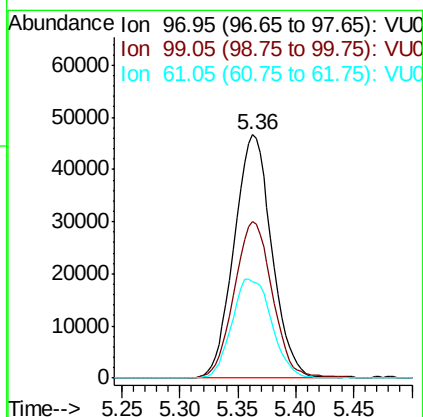
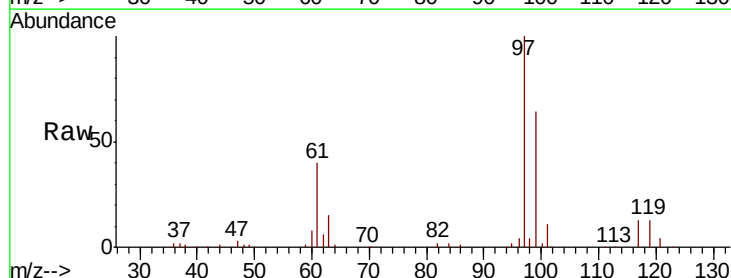
Instrument :
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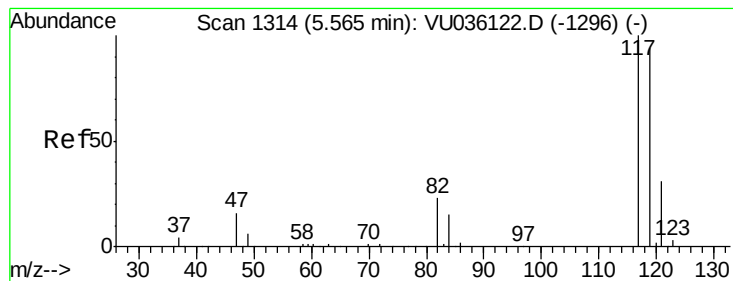
Tot Ion: 62 Resp: 8303
 Ion Ratio Lower Upper
 62 100
 98 12.2 8.2 12.2



#29
 1,1,1-Trichloroethane
 Concen: 2.760 ug/L
 RT: 5.36 min Scan# 1251
 Delta R.T. 0.00 min
 Lab File: VU036136.D
 Acq: 11 Dec 2019 16:24

Tgt Ion: 97 Resp: 105381
 Ion Ratio Lower Upper
 97 100
 99 65.4 52.2 78.2
 61 43.1 34.7 52.1





#31

Carbon tetrachloride

Concen: 0.110 ug/L

RT: 5.56 min Scan# 1314

Delta R.T. -0.00 min

Lab File: VU036136.D

Acq: 11 Dec 2019 16:24

Instrument :

MSVOA_U

ClientSampleId :

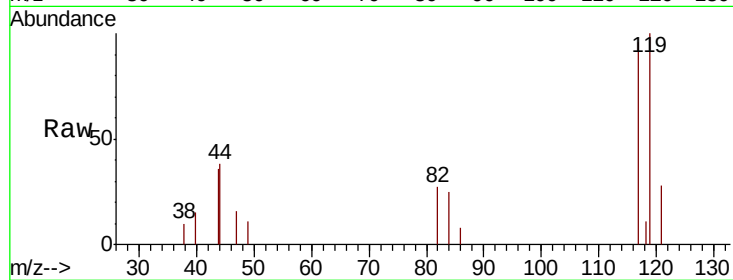
BFE46

Tot Ion:117 Resp: 3807

Ion Ratio Lower Upper

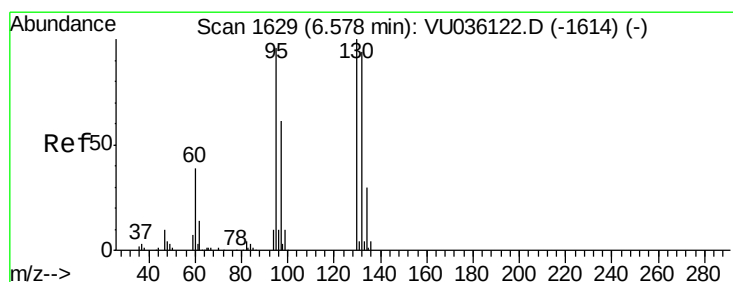
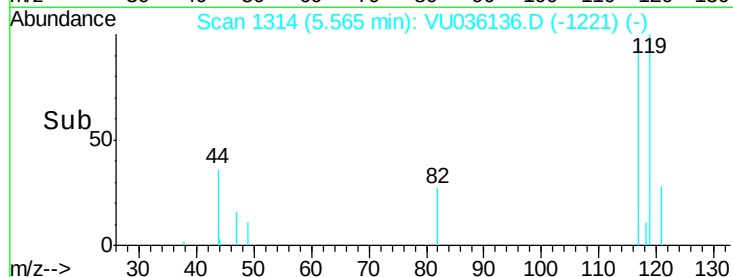
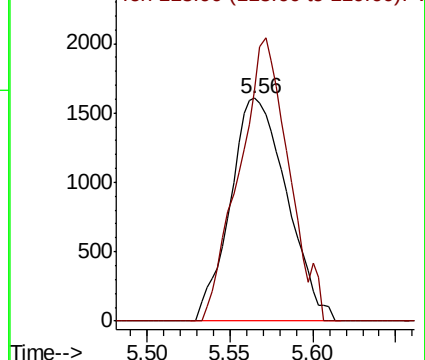
117 100

119 110.8 78.2 117.4



Abundance Ion 116.90 (116.60 to 117.60): V

Ion 118.90 (118.60 to 119.60): V



#34

Trichloroethene

Concen: 91.834 ug/L

RT: 6.58 min Scan# 1631

Delta R.T. 0.01 min

Lab File: VU036136.D

Acq: 11 Dec 2019 16:24

Tgt Ion: 95 Resp: 2257651

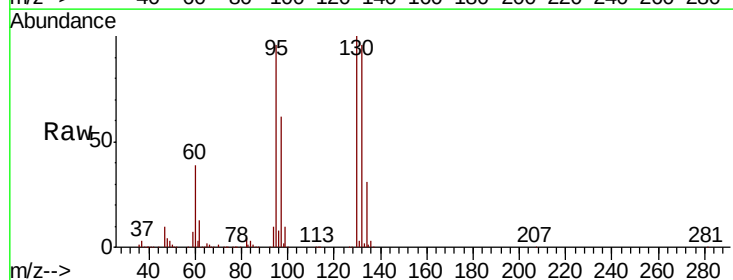
Ion Ratio Lower Upper

95 100

97 64.9 44.4 82.4

132 100.8 73.4 136.4

130 104.6 75.9 141.1

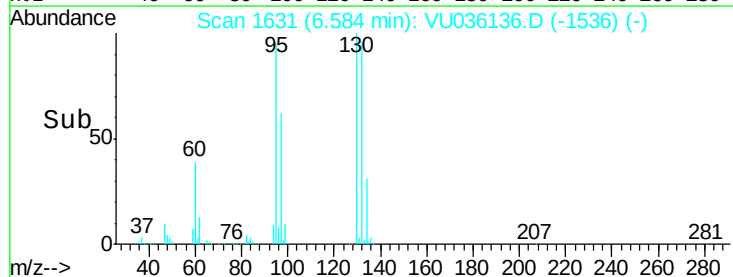
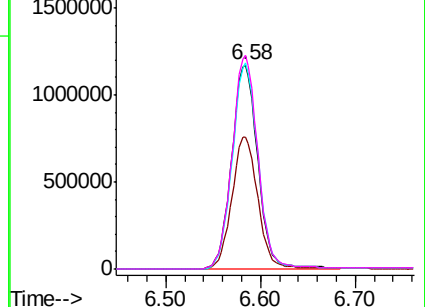


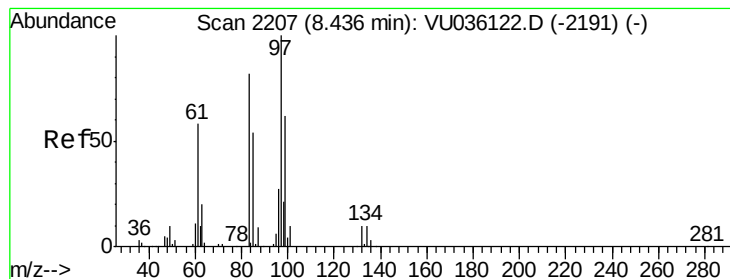
Abundance Ion 95.00 (94.70 to 95.70): VU0

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





#45

1,1,2-Trichloroethane

Concen: 0.159 ug/L

RT: 8.44 min Scan# 2207

Delta R.T. -0.00 min

Lab File: VU036136.D

Acq: 11 Dec 2019 16:24

Instrument :

MSVOA_U

ClientSampleId :

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Tot Ion: 97 Resp: 2900

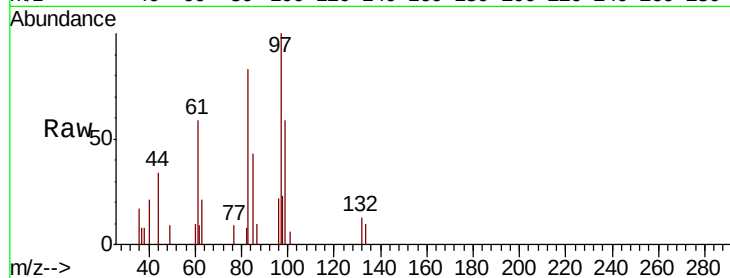
Ion Ratio Lower Upper

97 100

99 59.5 46.1 85.7

83 82.7 59.6 110.8

85 42.9 40.5 75.3

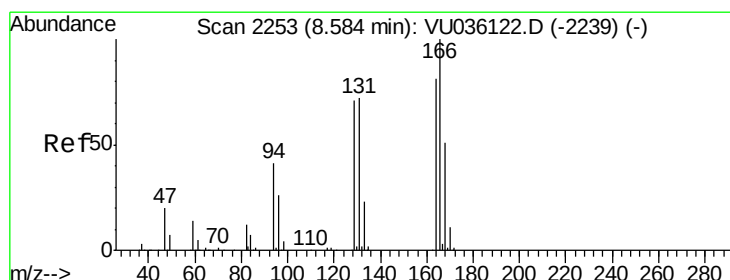
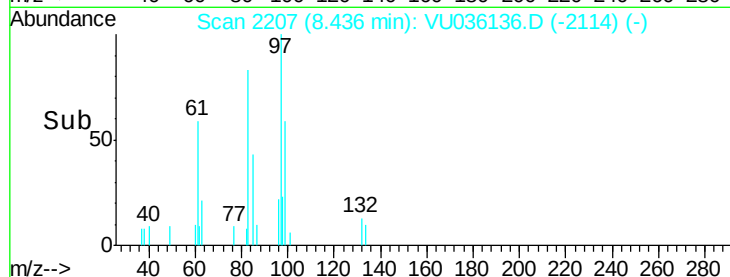
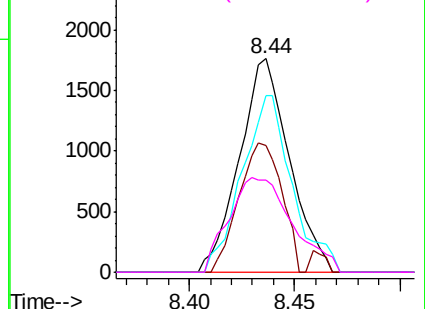


Abundance Ion 96.95 (96.65 to 97.65): VU0

Ion 99.05 (98.75 to 99.75): VU0

Ion 82.95 (82.65 to 83.65): VU0

Ion 85.00 (84.70 to 85.70): VU0



#47

Tetrachloroethene

Concen: 17.232 ug/L

RT: 8.58 min Scan# 2253

Delta R.T. -0.00 min

Lab File: VU036136.D

Acq: 11 Dec 2019 16:24

Tgt Ion: 164 Resp: 402756

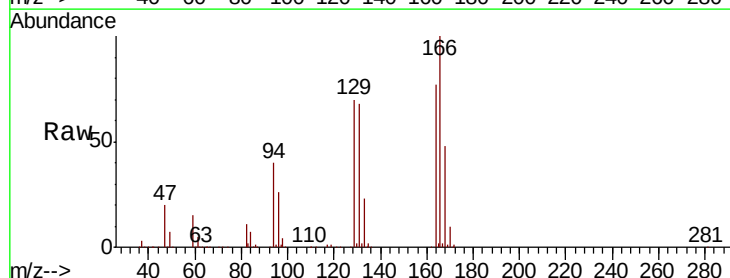
Ion Ratio Lower Upper

164 100

129 90.2 63.1 117.3

131 88.3 61.5 114.1

166 129.3 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

