

Data Path : Z:\VOASRV\HPCHEM1\MSVOA U\DATA\VU091919\
 Data File : VU034666.D
 Acq On : 19 Sep 2019 22:59
 Operator : JC/SP
 Sample : K4895-12
 Misc : 5.0mL/MSVOA U/WATER
 ALS Vial : 21 Sample Multiplier: 1

Instrument :
 MSVOA_U
 ClientSampleId :
 BFDH9

Quant Time: Sep 20 05:39:11 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_U\METHOD\SOMULM091919WMA.M
 Quant Title : VOC Analysis
 QLast Update : Fri Sep 20 04:02:05 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Difluorobenzene	5.86	114	470535	50.00	ug/L	0.00
28) Chlorobenzene-d5	9.07	117	447226	50.00	ug/L	0.00
60) 1,4-Dichlorobenzene-d4	11.46	152	210256	50.00	ug/L	0.00

System Monitoring Compounds

4) Vinyl Chloride-d3	1.39	65	221249	45.93	ug/L	0.00
Spiked Amount	50.000	Range	60 - 135	Recovery	=	91.86%
7) Chloroethane-d5	1.67	69	177480	47.67	ug/L	0.00
Spiked Amount	50.000	Range	70 - 130	Recovery	=	95.34%
11) 1,1-Dichloroethene-d2	2.26	63	290288	35.59	ug/L	0.00
Spiked Amount	50.000	Range	60 - 125	Recovery	=	71.18%
21) 2-Butanone-d5	4.15	46	377555	102.27	ug/L	0.00
Spiked Amount	100.000	Range	40 - 130	Recovery	=	102.27%
24) Chloroform-d	4.62	84	339280	48.45	ug/L	0.00
Spiked Amount	50.000	Range	70 - 125	Recovery	=	96.90%
26) 1,2-Dichloroethane-d4	5.29	65	246608	47.90	ug/L	0.00
Spiked Amount	50.000	Range	70 - 125	Recovery	=	95.80%
32) Benzene-d6	5.32	84	686957	49.56	ug/L	0.00
Spiked Amount	50.000	Range	70 - 125	Recovery	=	99.12%
36) 1,2-Dichloropropane-d6	6.31	67	243070	50.17	ug/L	0.00
Spiked Amount	50.000	Range	70 - 120	Recovery	=	100.34%
41) Toluene-d8	7.54	98	648925	49.21	ug/L	0.00
Spiked Amount	50.000	Range	80 - 120	Recovery	=	98.42%
43) trans-1,3-Dichloropropene-	7.83	79	111456	48.03	ug/L	0.00
Spiked Amount	50.000	Range	60 - 125	Recovery	=	96.06%
47) 2-Hexanone-d5	8.29	63	253654	104.24	ug/L	0.00
Spiked Amount	100.000	Range	45 - 130	Recovery	=	104.24%
57) 1,1,2,2-Tetrachloroethane-	10.41	84	320963	47.74	ug/L	0.00
Spiked Amount	50.000	Range	65 - 120	Recovery	=	95.48%
64) 1,2-Dichlorobenzene-d4	11.84	152	223719	50.74	ug/L	0.00
Spiked Amount	50.000	Range	80 - 120	Recovery	=	101.48%

Target Compounds

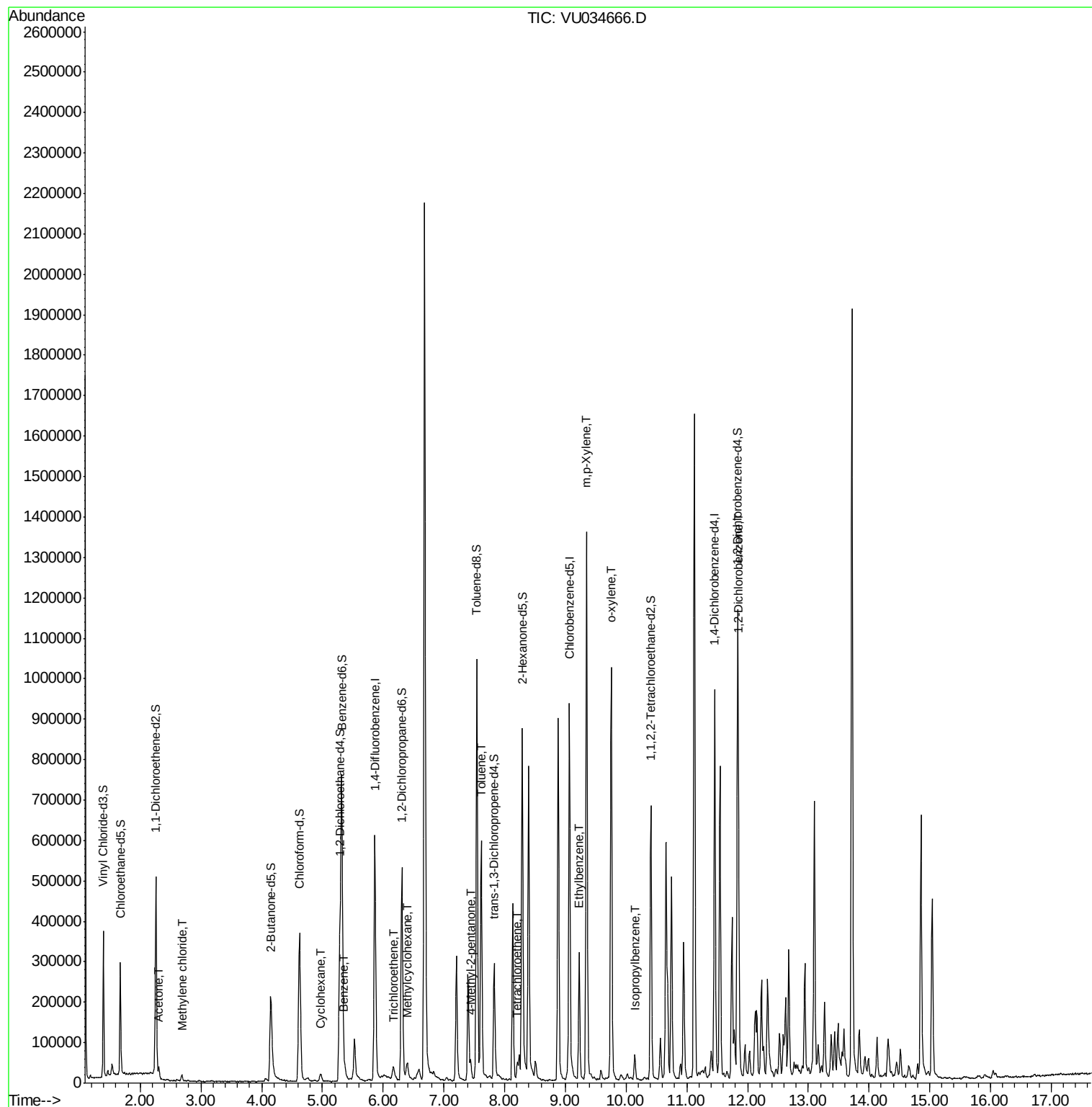
Target Compounds	R.T.	QIon	Response	Conc	Units	Ovalue
13) Acetone	2.31	43	32903	7.662	ug/L	95
16) Methylene chloride	2.69	84	5130	1.316	ug/L	95
29) Cyclohexane	4.97	56	9820	1.330	ug/L #	73
33) Benzene	5.37	78	25179	1.623	ug/L	100
34) Trichloroethene	6.17	95	11464	2.993	ug/L	86
35) Methylcyclohexane	6.39	83	13254	2.039	ug/L	98
40) 4-Methyl-2-pentanone	7.44	43	32694	3.708	ug/L	93
42) Toluene	7.61	91	408114	24.346	ug/L	100
46) Tetrachloroethene	8.21	164	4023	1.493	ug/L	78
52) Ethylbenzene	9.23	91	211710	11.215	ug/L	99
53) m,p-Xylene	9.35	106	345899	51.735	ug/L	100
54) o-xylene	9.76	106	224904	34.009	ug/L	99
56) Isopropylbenzene	10.14	105	36154	2.028	ug/L	98
65) 1,2-Dichlorobenzene	11.85	146	47028	6.392	ug/L	96

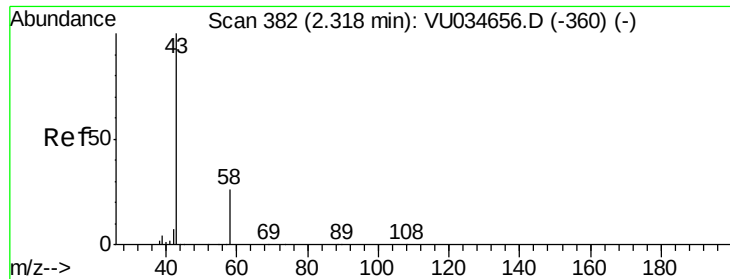
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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#13

Acetone

Concen: 7.662 ug/L

RT: 2.31 min Scan# 379

Delta R.T. -0.01 min

Lab File: VU034666.D

Acq: 19 Sep 2019 22:59

Instrument :

MSVOA_U

ClientSampleId :

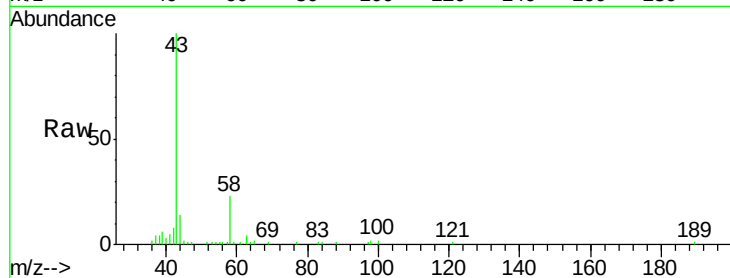
BFDH9

Tot Ion: 43 Resp: 32903

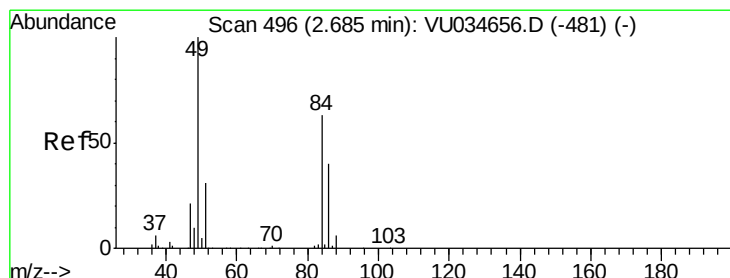
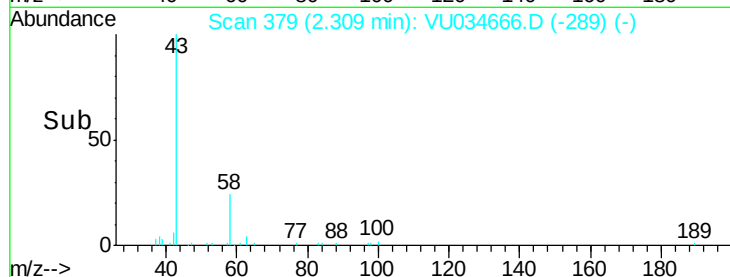
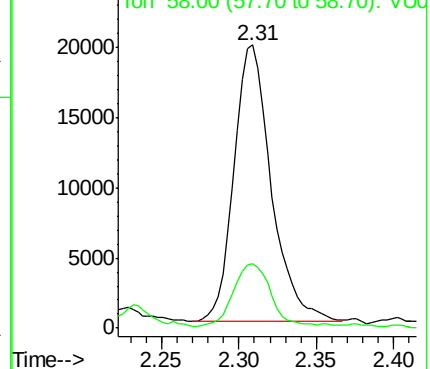
Ion Ratio Lower Upper

43 100

58 24.4 0.0 53.4



Abundance Ion 43.00 (42.70 to 43.70): VU034666.D (-379) (-)



#16

Methylene chloride

Concen: 1.316 ug/L

RT: 2.69 min Scan# 497

Delta R.T. 0.00 min

Lab File: VU034666.D

Acq: 19 Sep 2019 22:59

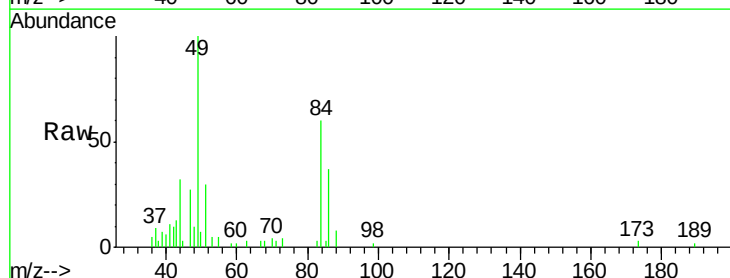
Tgt Ion: 84 Resp: 5130

Ion Ratio Lower Upper

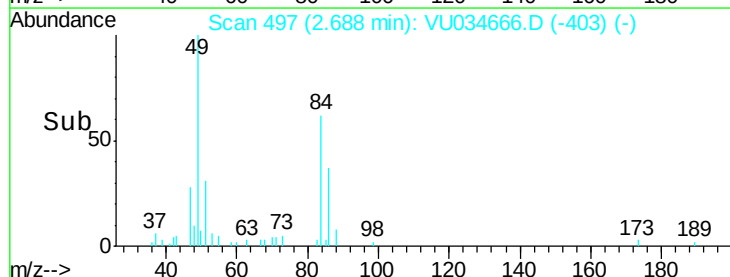
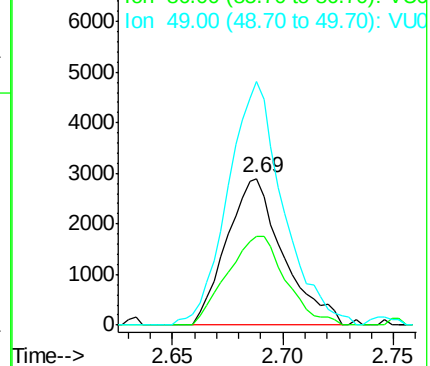
84 100

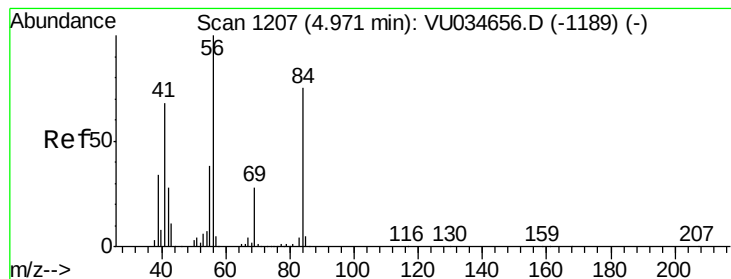
86 60.7 43.0 80.0

49 165.9 109.7 203.7



Abundance Ion 84.00 (83.70 to 84.70): VU034666.D (-497) (-)





#29

Cyclohexane

Concen: 1.330 ug/L

RT: 4.97 min Scan# 1207

Delta R.T. 0.00 min

Lab File: VU034666.D

Acq: 19 Sep 2019 22:59

Instrument :

MSVOA_U

ClientSampleId :

BFDH9

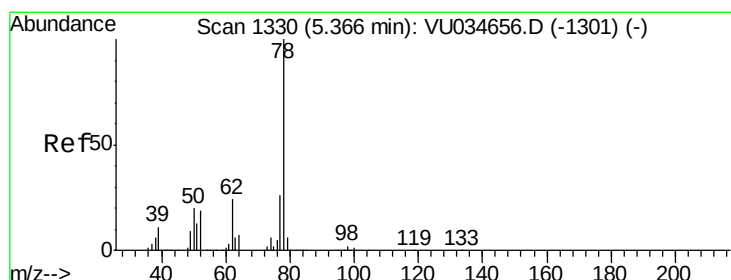
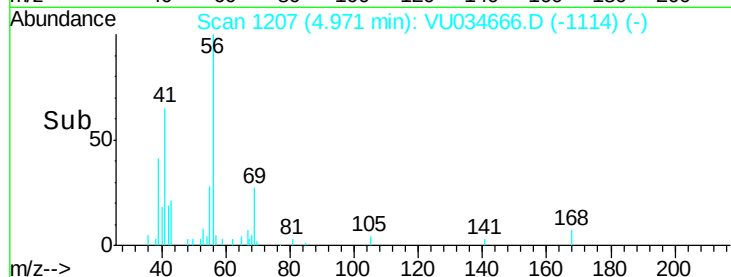
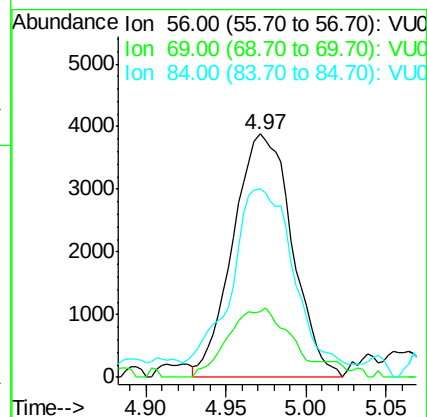
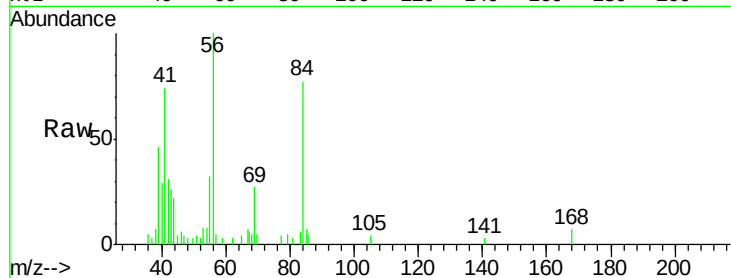
Tot Ion: 56 Resp: 9820

Ion Ratio Lower Upper

56 100

69 13.8 21.7 32.5#

84 50.1 58.8 88.2#



#33

Benzene

Concen: 1.623 ug/L

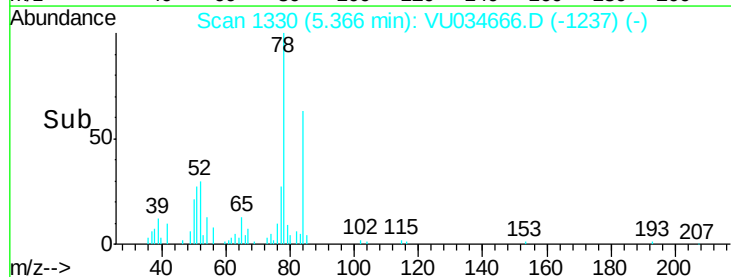
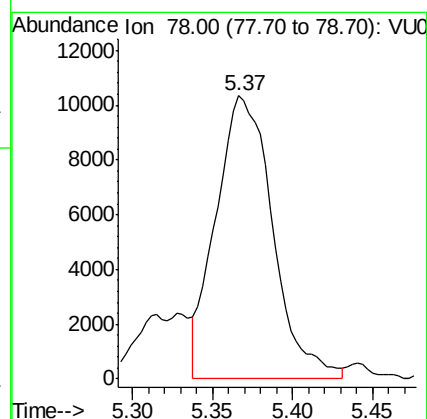
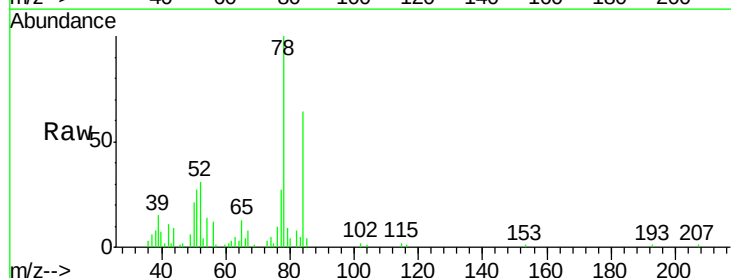
RT: 5.37 min Scan# 1330

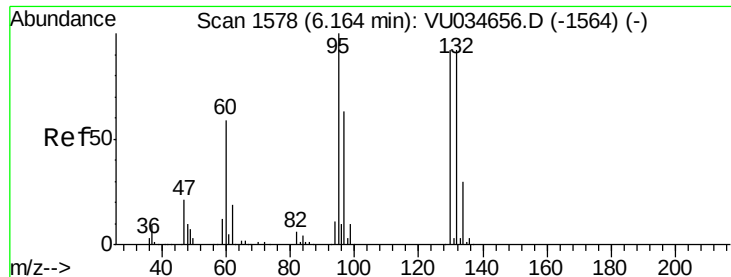
Delta R.T. 0.00 min

Lab File: VU034666.D

Acq: 19 Sep 2019 22:59

Tgt Ion: 78 Resp: 25179





#34

Trichloroethene

Concen: 2.993 ug/L

RT: 6.17 min Scan# 1579

Delta R.T. 0.00 min

Lab File: VU034666.D

Acq: 19 Sep 2019 22:59

Instrument :

MSVOA_U

ClientSampled :

BFDH9

Tot Ion: 95 Resp: 11464

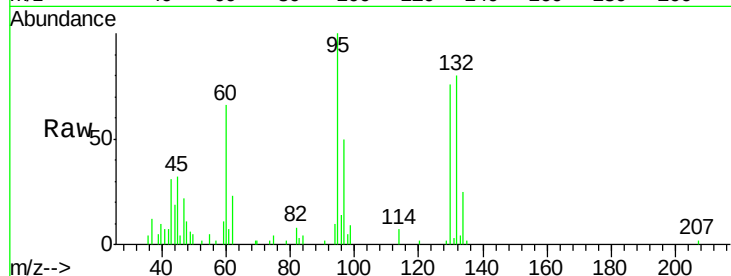
Ion Ratio Lower Upper

95 100

97 50.1 43.7 81.1

132 80.1 61.0 113.2

130 76.0 65.7 121.9

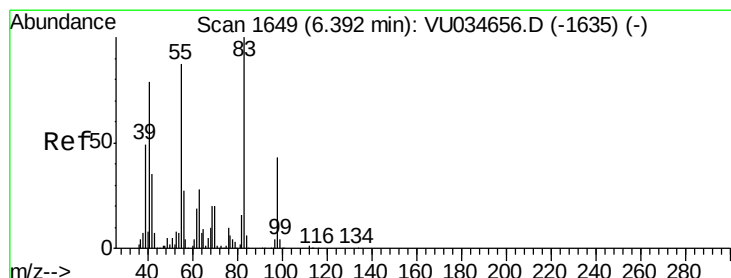
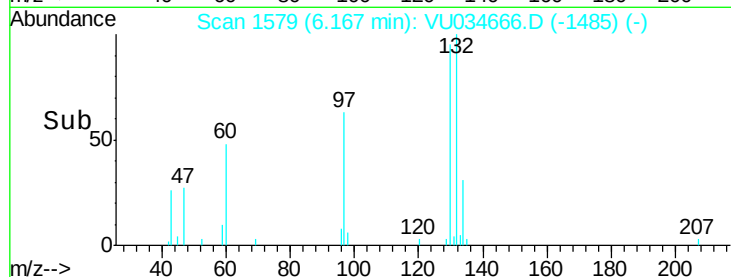
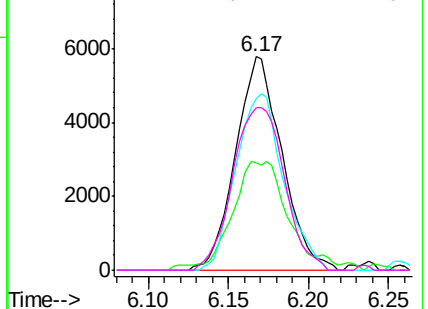


Abundance Ion 95.00 (94.70 to 95.70): VU0

Ion 97.00 (96.70 to 97.70): VU0

Ion 132.00 (131.70 to 132.70): V

Ion 130.00 (129.70 to 130.70): V



#35

Methylcyclohexane

Concen: 2.039 ug/L

RT: 6.39 min Scan# 1649

Delta R.T. 0.00 min

Lab File: VU034666.D

Acq: 19 Sep 2019 22:59

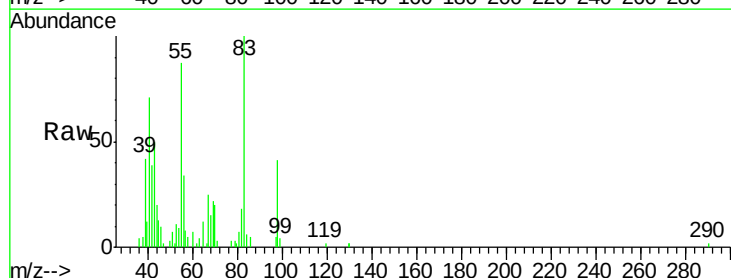
Tgt Ion: 83 Resp: 13254

Ion Ratio Lower Upper

83 100

55 87.2 71.6 107.4

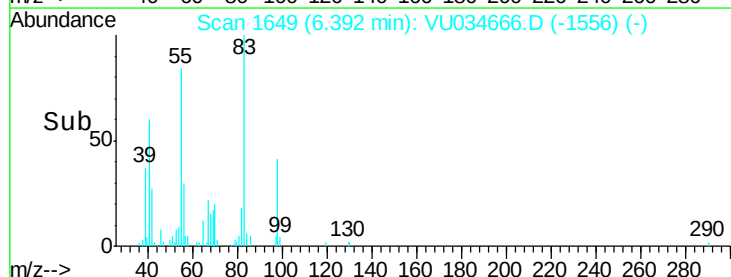
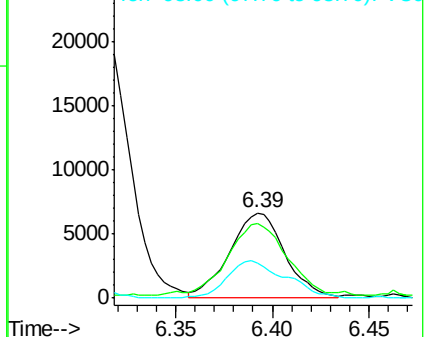
98 46.3 35.7 53.5

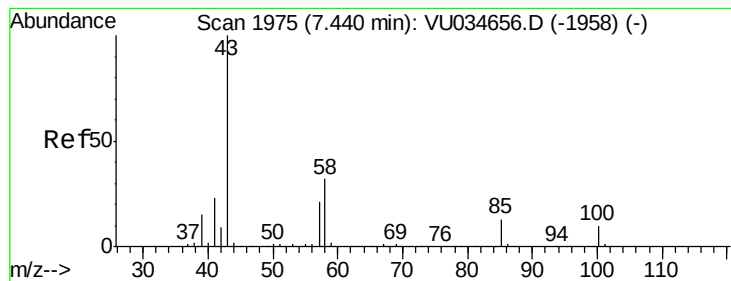


Abundance Ion 83.00 (82.70 to 83.70): VU0

Ion 55.00 (54.70 to 55.70): VU0

Ion 98.00 (97.70 to 98.70): VU0





#40

4-Methyl-2-pentanone

Concen: 3.708 ug/L

RT: 7.44 min Scan# 1975

Delta R.T. 0.00 min

Lab File: VU034666.D

Acq: 19 Sep 2019 22:59

Instrument :

MSVOA_U

ClientSampleId :

BFDH9

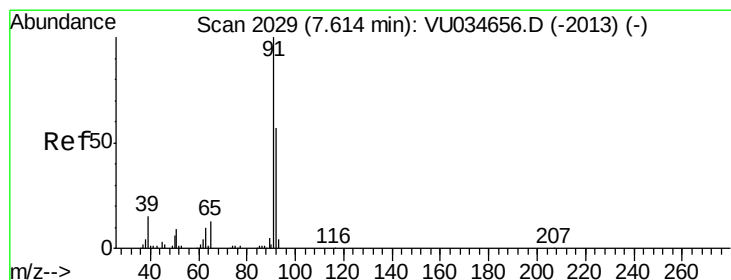
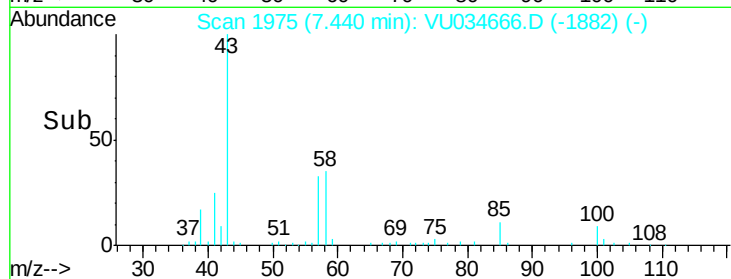
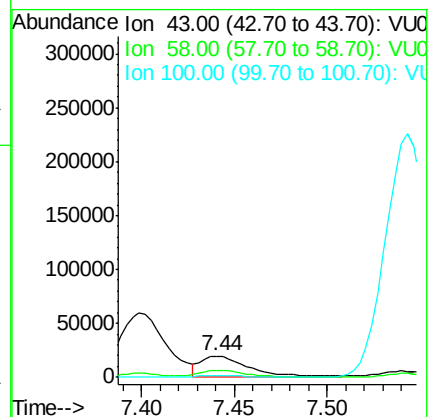
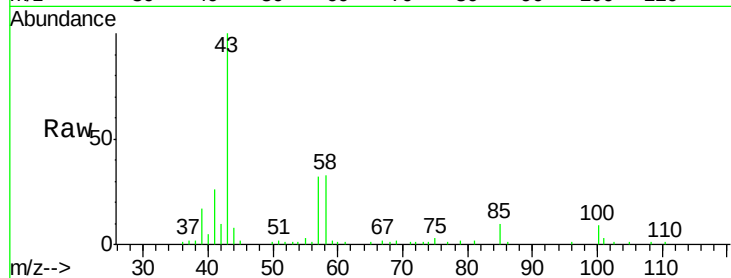
Tot Ion: 43 Resp: 32694

Ion Ratio Lower Upper

43 100

58 36.3 25.2 37.8

100 10.3 7.7 11.5



#42

Toluene

Concen: 24.346 ug/L

RT: 7.61 min Scan# 2029

Delta R.T. 0.00 min

Lab File: VU034666.D

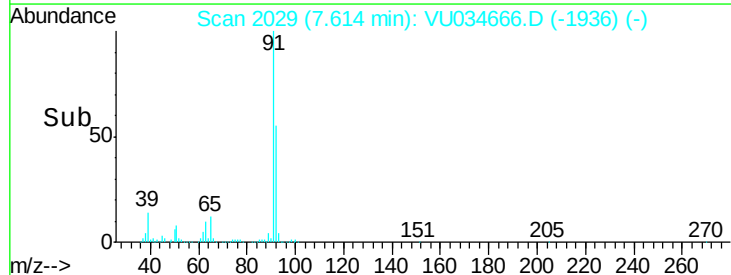
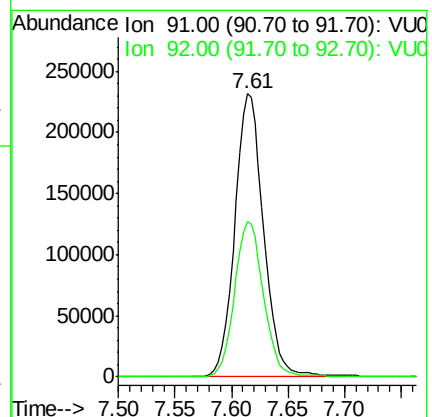
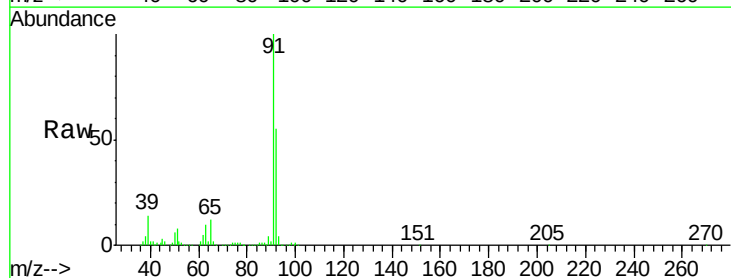
Acq: 19 Sep 2019 22:59

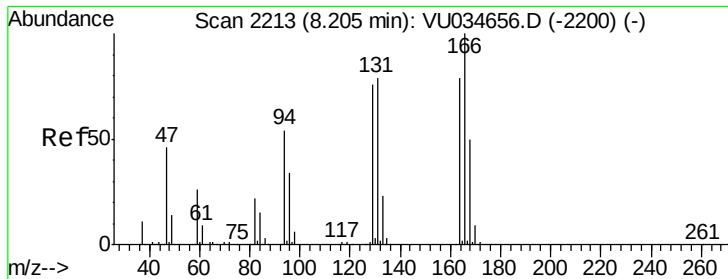
Tgt Ion: 91 Resp: 408114

Ion Ratio Lower Upper

91 100

92 54.8 38.2 71.0

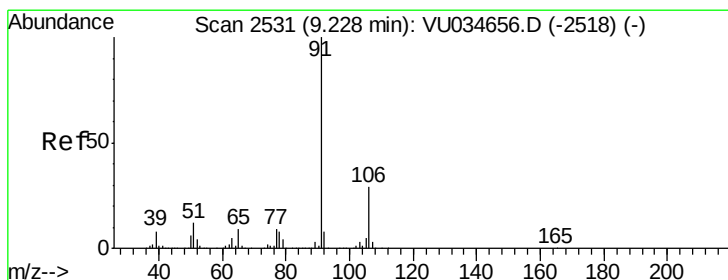
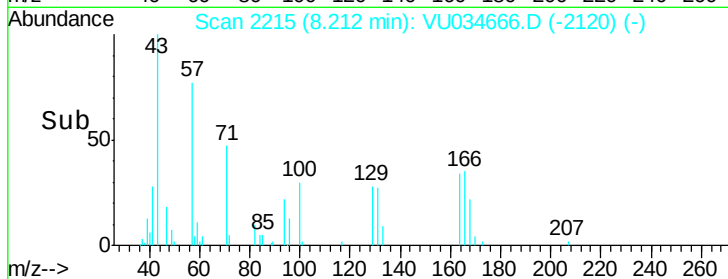
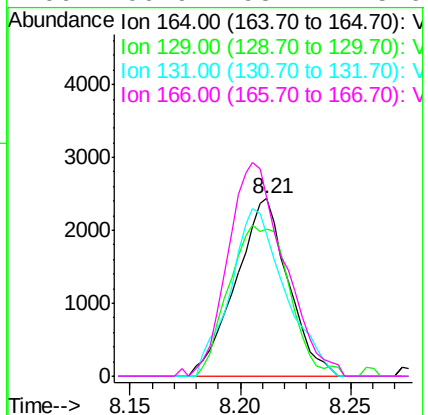
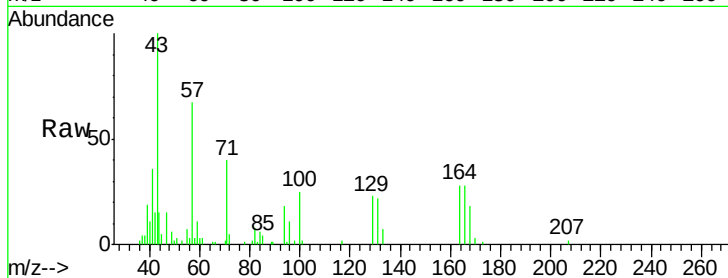




#46
Tetrachloroethene
Concen: 1.493 ug/L
RT: 8.21 min Scan# 2215
Delta R.T. 0.01 min
Lab File: VU034666.D
Acq: 19 Sep 2019 22:59

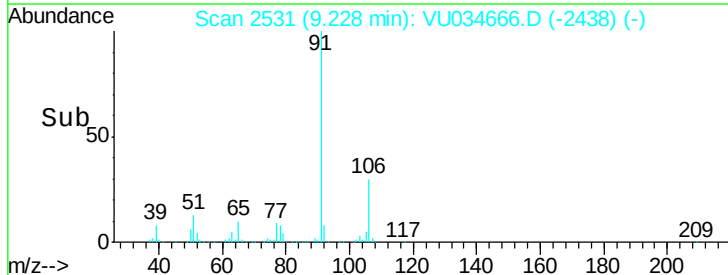
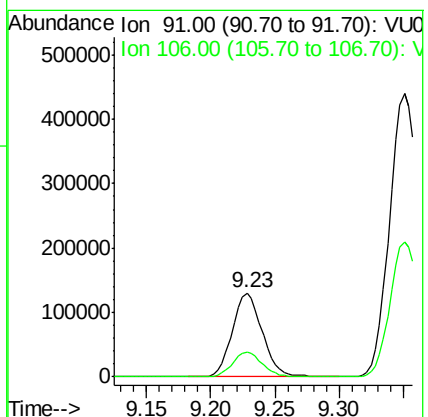
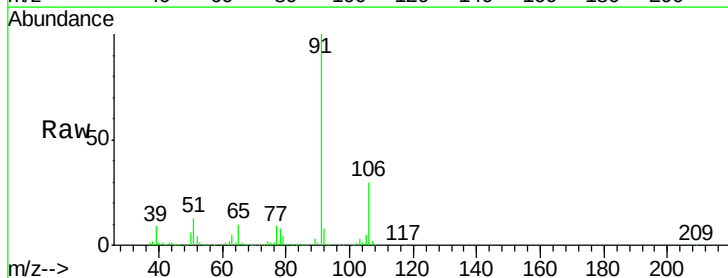
Instrument :
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ClientSampleId :
BFDH9

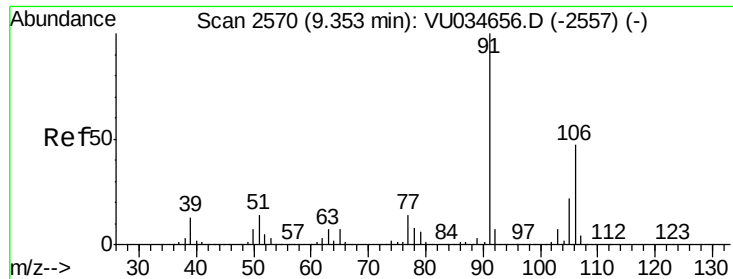
Tot Ion:164 Resp: 4023
Ion Ratio Lower Upper
164 100
129 82.6 71.9 133.5
131 79.8 66.3 123.1
166 100.9 93.4 173.6



#52
Ethylbenzene
Concen: 11.215 ug/L
RT: 9.23 min Scan# 2531
Delta R.T. 0.00 min
Lab File: VU034666.D
Acq: 19 Sep 2019 22:59

Tgt Ion: 91 Resp: 211710
Ion Ratio Lower Upper
91 100
106 29.8 20.6 38.4





#53

m,p-Xylene

Concen: 51.735 ug/L

RT: 9.35 min Scan# 2569

Delta R.T. -0.00 min

Lab File: VU034666.D

Acq: 19 Sep 2019 22:59

Instrument :

MSVOA_U

ClientSampleId :

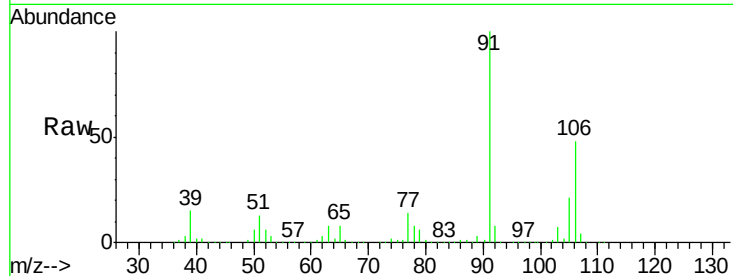
BFDH9

Tot Ion:106 Resp: 345899

Ion Ratio Lower Upper

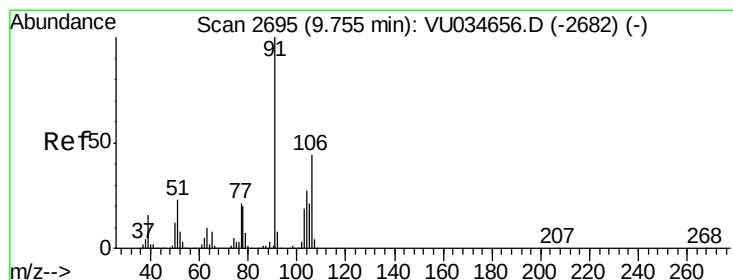
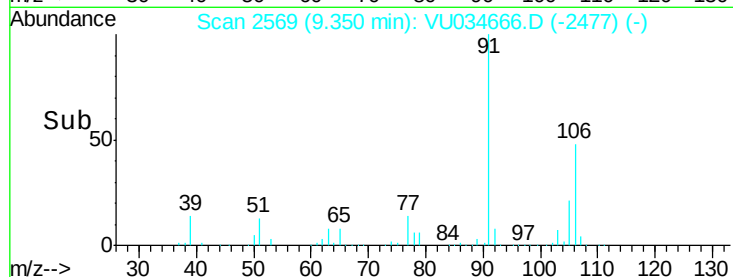
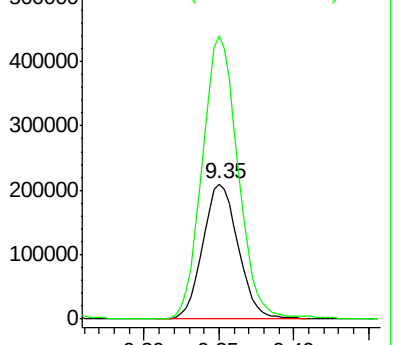
106 100

91 209.7 146.9 272.7



Abundance Ion 106.00 (105.70 to 106.70): V

Ion 91.00 (90.70 to 91.70): VU0



#54

o-xylene

Concen: 34.009 ug/L

RT: 9.76 min Scan# 2695

Delta R.T. 0.00 min

Lab File: VU034666.D

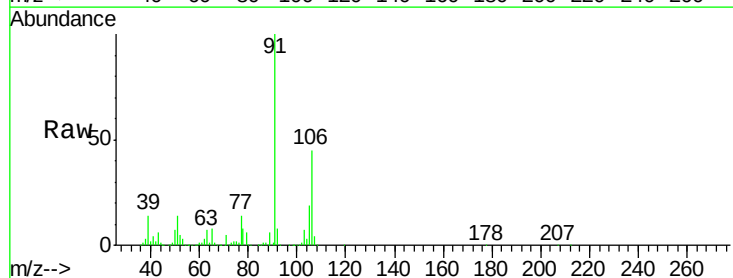
Acq: 19 Sep 2019 22:59

Tgt Ion:106 Resp: 224904

Ion Ratio Lower Upper

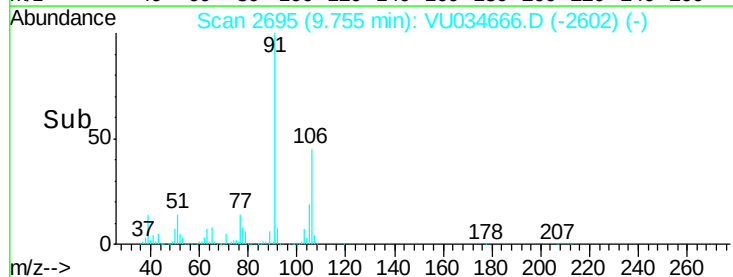
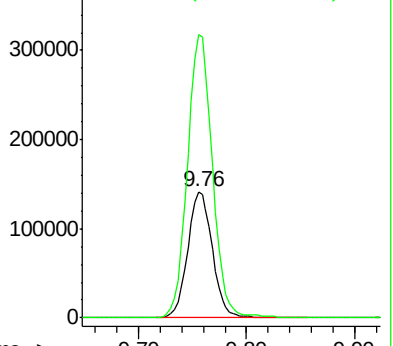
106 100

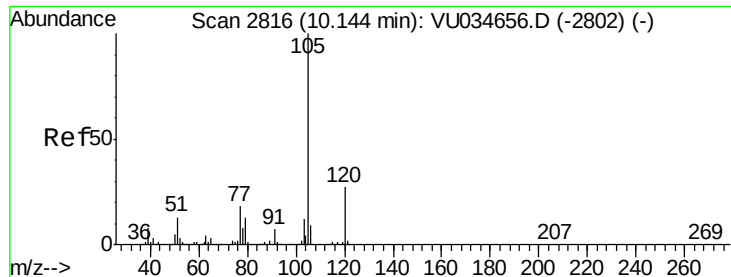
91 224.5 155.6 289.0



Abundance Ion 106.00 (105.70 to 106.70): V

Ion 91.00 (90.70 to 91.70): VU0





#56

Isopropylbenzene

Concen: 2.028 ug/L

RT: 10.14 min Scan# 2816

Delta R.T. 0.00 min

Lab File: VU034666.D

Acq: 19 Sep 2019 22:59

Instrument :

MSVOA_U

ClientSampled :

BFDH9

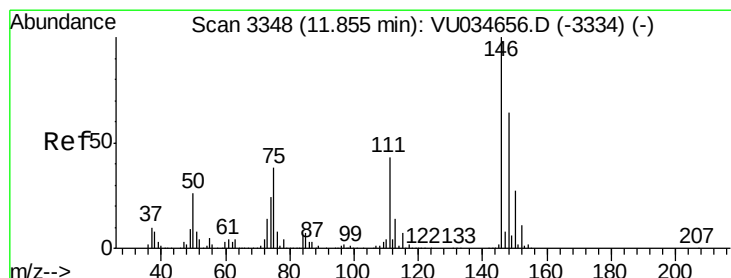
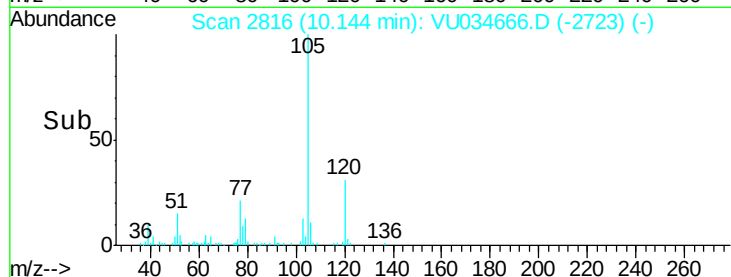
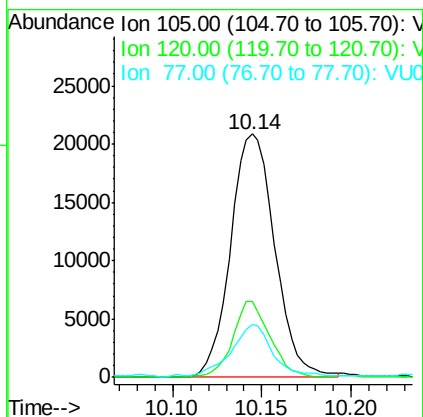
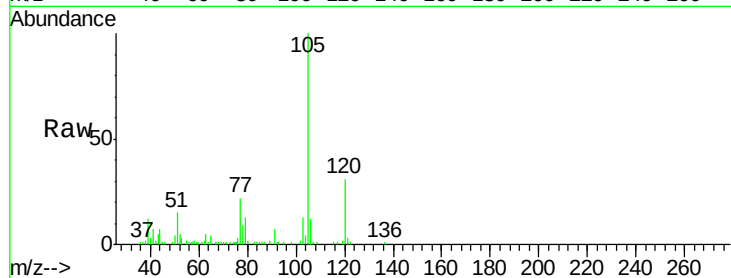
Tot Ion:105 Resp: 36154

Ion Ratio Lower Upper

105 100

120 26.1 20.4 30.6

77 19.1 14.2 21.4



#65

1,2-Dichlorobenzene

Concen: 6.392 ug/L

RT: 11.85 min Scan# 3348

Delta R.T. 0.00 min

Lab File: VU034666.D

Acq: 19 Sep 2019 22:59

Tgt Ion:146 Resp: 47028

Ion Ratio Lower Upper

146 100

111 48.3 35.2 52.8

148 68.6 53.0 79.6

