

Data Path : Z:\VOASRV\HPCHEM1\MSVOA U\DATA\VU092319\
 Data File : VU034746.D
 Acq On : 23 Sep 2019 20:32
 Operator : JC/SP
 Sample : K4932-02
 Misc : 5.0mL/MSVOA U/WATER
 ALS Vial : 23 Sample Multiplier: 1

Instrument :
 MSVOA_U
 ClientSampleId :
 BFDG4

Manual Integrations
 APPROVED

MMDadoda
 9/24/2019 12:48:09 PM

Quant Time: Sep 24 04:36:37 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_U\METHOD\SOMULM091919WMA.M
 Quant Title : VOC Analysis
 QLast Update : Tue Sep 24 03:36:55 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Difluorobenzene	5.86	114	470269	50.00	ug/L	0.00
28) Chlorobenzene-d5	9.07	117	454764	50.00	ug/L	0.00
60) 1,4-Dichlorobenzene-d4	11.46	152	221308	50.00	ug/L	0.00

System Monitoring Compounds

4) Vinyl Chloride-d3	1.39	65	199690	41.48	ug/L	0.00
Spiked Amount	50.000	Range	60 - 135	Recovery	=	82.96%
7) Chloroethane-d5	1.67	69	167270	44.95	ug/L	0.00
Spiked Amount	50.000	Range	70 - 130	Recovery	=	89.90%
11) 1,1-Dichloroethene-d2	2.26	63	284418	34.89	ug/L	0.00
Spiked Amount	50.000	Range	60 - 125	Recovery	=	69.78%
21) 2-Butanone-d5	4.15	46	417767	113.22	ug/L	0.00
Spiked Amount	100.000	Range	40 - 130	Recovery	=	113.22%
24) Chloroform-d	4.62	84	348187	49.75	ug/L	0.00
Spiked Amount	50.000	Range	70 - 125	Recovery	=	99.50%
26) 1,2-Dichloroethane-d4	5.29	65	255603	49.68	ug/L	0.00
Spiked Amount	50.000	Range	70 - 125	Recovery	=	99.36%
32) Benzene-d6	5.32	84	699423	49.62	ug/L	0.00
Spiked Amount	50.000	Range	70 - 125	Recovery	=	99.24%
36) 1,2-Dichloropropane-d6	6.31	67	253649	51.48	ug/L	0.00
Spiked Amount	50.000	Range	70 - 120	Recovery	=	102.96%
41) Toluene-d8	7.54	98	676763	50.47	ug/L	0.00
Spiked Amount	50.000	Range	80 - 120	Recovery	=	100.94%
43) trans-1,3-Dichloropropene-	7.83	79	113153	47.95	ug/L	0.00
Spiked Amount	50.000	Range	60 - 125	Recovery	=	95.90%
47) 2-Hexanone-d5	8.29	63	275213	111.22	ug/L	0.00
Spiked Amount	100.000	Range	45 - 130	Recovery	=	111.22%
57) 1,1,2,2-Tetrachloroethane-	10.41	84	336103	49.17	ug/L	0.00
Spiked Amount	50.000	Range	65 - 120	Recovery	=	98.34%
64) 1,2-Dichlorobenzene-d4	11.84	152	247114	53.25	ug/L	0.00
Spiked Amount	50.000	Range	80 - 120	Recovery	=	106.50%

Target Compounds

Target Compounds	R.T.	QIon	Response	Conc	Units	Ovalue
13) Acetone	2.31	43	63605	14.819	ug/L	96
16) Methylene chloride	2.68	84	40681	10.438	ug/L	97
22) 2-Butanone	4.26	43	16502m	3.232	ug/L	
29) Cyclohexane	4.97	56	16798	2.238	ug/L	100
33) Benzene	5.37	78	225923	14.324	ug/L	100
34) Trichloroethene	6.17	95	5386m	1.383	ug/L	
35) Methylcyclohexane	6.39	83	14570	2.204	ug/L	97
42) Toluene	7.61	91	1036562	60.811	ug/L	97
51) Chlorobenzene	9.10	112	19867	1.917	ug/L	96
52) Ethylbenzene	9.23	91	392791	20.463	ug/L	99
53) m,p-Xylene	9.35	106	525221	77.253	ug/L	94
54) o-xylene	9.76	106	393087	58.456	ug/L	99
56) Isopropylbenzene	10.14	105	39701	2.190	ug/L	99
65) 1,2-Dichlorobenzene	11.85	146	34414	4.444	ug/L	95

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

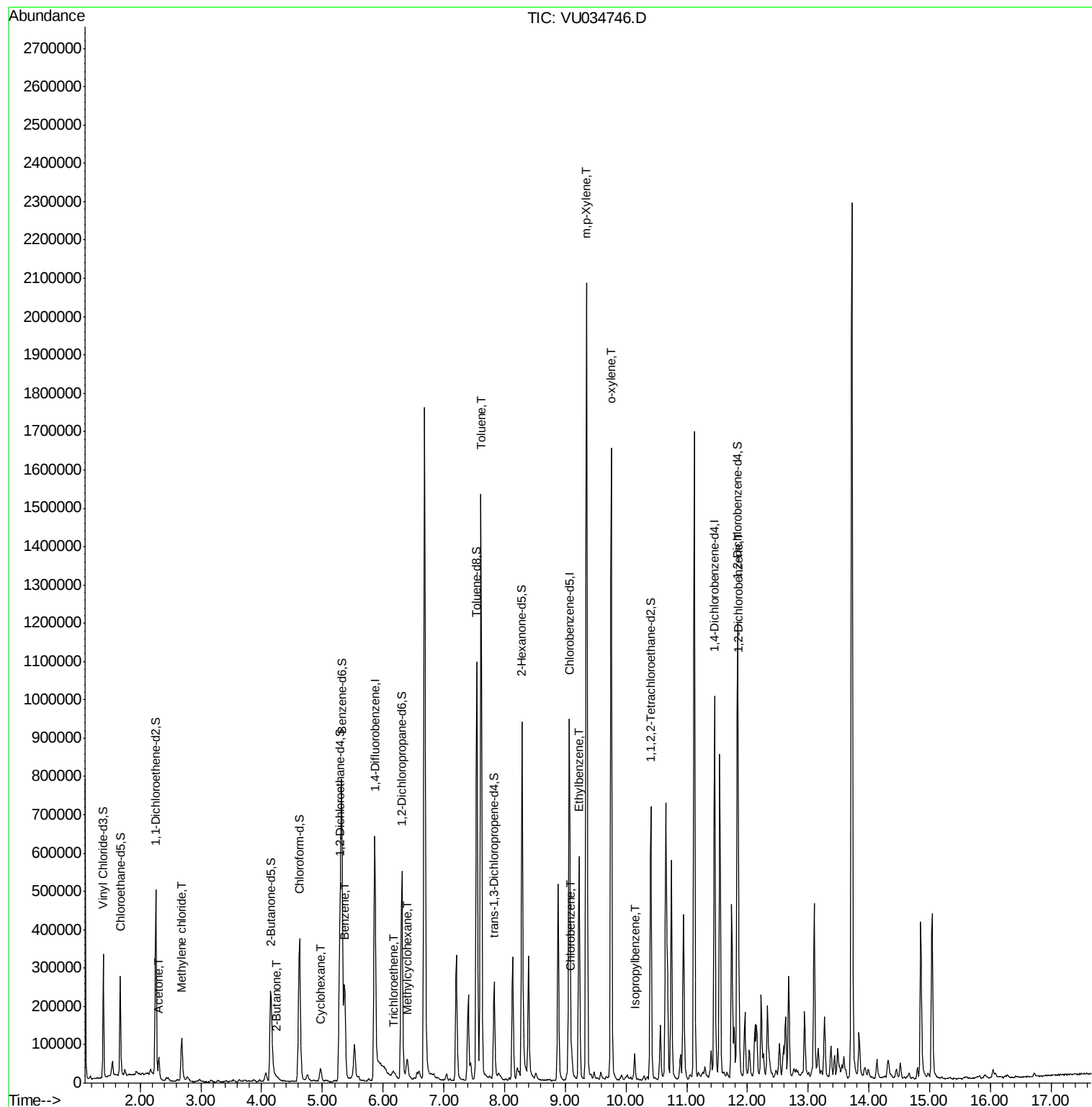
Data Path : Z:\V0ASRV\HPCHEM1\MSVOA U\DATA\VU092319\
Data File : VU034746.D
Acq On : 23 Sep 2019 20:32
Operator : JC/SP
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ALS Vial : 23 Sample Multiplier: 1

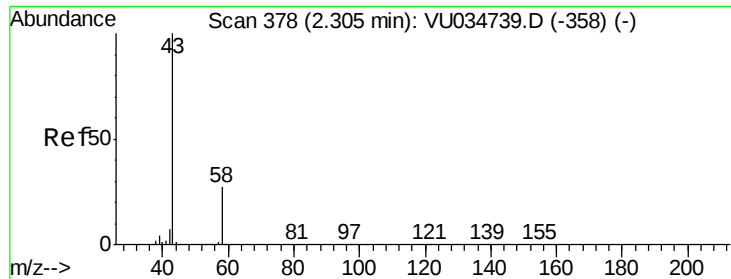
Instrument :
MSVOA_U
ClientSampleId :
BFDG4

Manual Integrations
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Quant Time: Sep 24 04:36:37 2019
Quant Method : Z:\V0ASRV\HPCHEM1\MSVOA_U\METHOD\SOMULM091919WMA.M
Quant Title : VOC Analysis
QLast Update : Tue Sep 24 03:36:55 2019
Response via : Initial Calibration





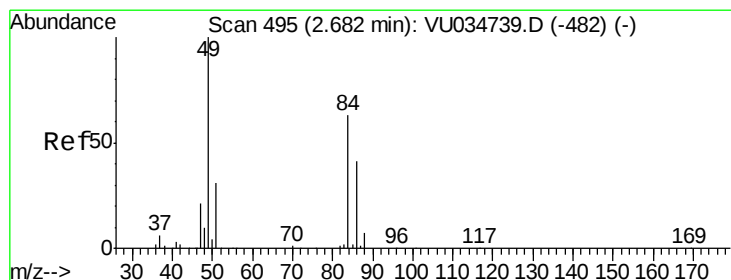
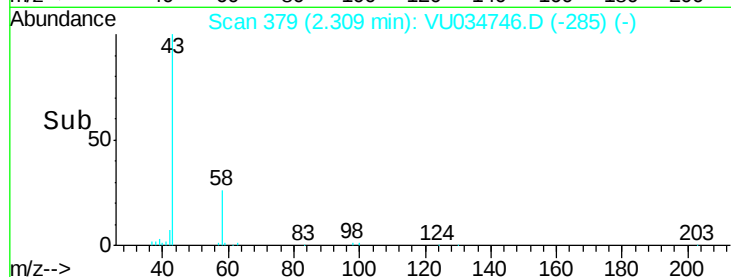
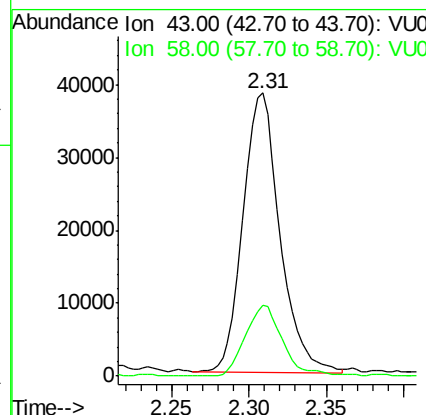
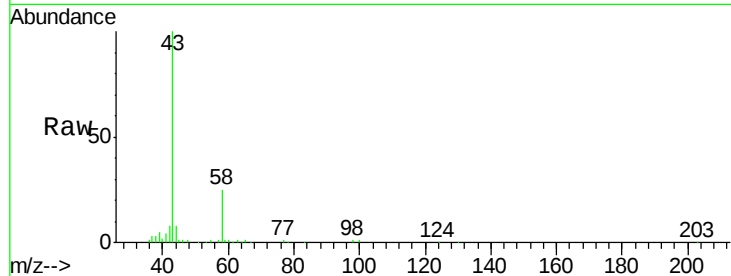
#13
Acetone
Concen: 14.819 ug/L
RT: 2.31 min Scan# 379
Delta R.T. 0.00 min
Lab File: VU034746.D
Acq: 23 Sep 2019 20:32

Instrument :
MSVOA_U
ClientSampled :
BFDG4

Tot Ion: 43 Resp: 63605
Ion Ratio Lower Upper
43 100
58 24.8 0.0 53.4

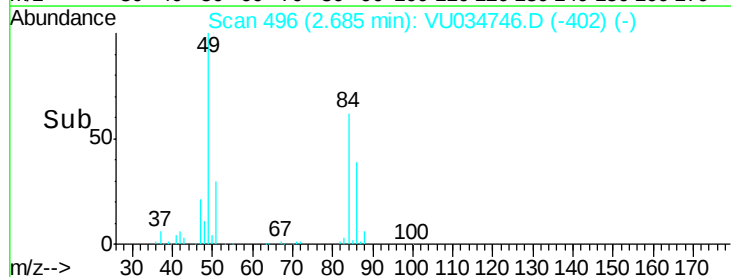
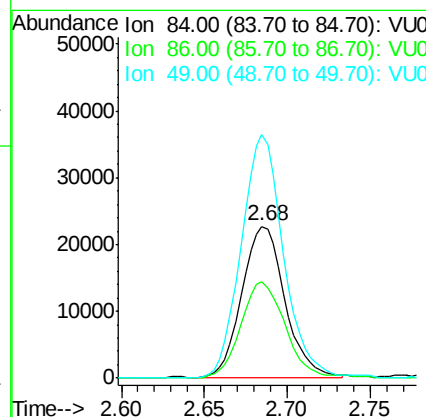
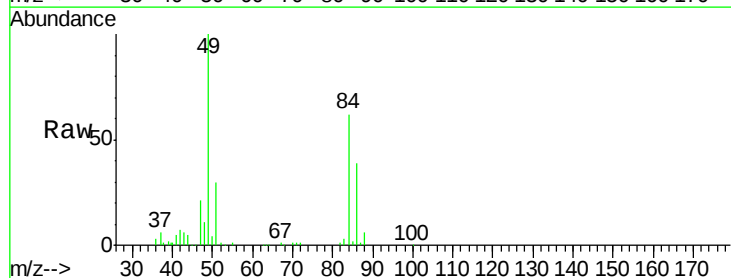
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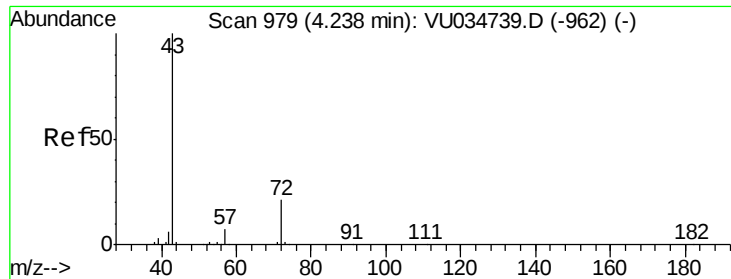
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#16
Methylene chloride
Concen: 10.438 ug/L
RT: 2.68 min Scan# 496
Delta R.T. 0.00 min
Lab File: VU034746.D
Acq: 23 Sep 2019 20:32

Tgt Ion: 84 Resp: 40681
Ion Ratio Lower Upper
84 100
86 63.3 43.0 80.0
49 160.4 109.7 203.7





#22

2-Butanone

Concen: 3.232 ug/L m

RT: 4.26 min Scan# 985

Delta R.T. 0.02 min

Lab File: VU034746.D

Acq: 23 Sep 2019 20:32

Instrument :

MSVOA_U

ClientSampled :

BFDG4

Tot Ion: 43 Resp: 16502

Ion Ratio Lower Upper

43 100

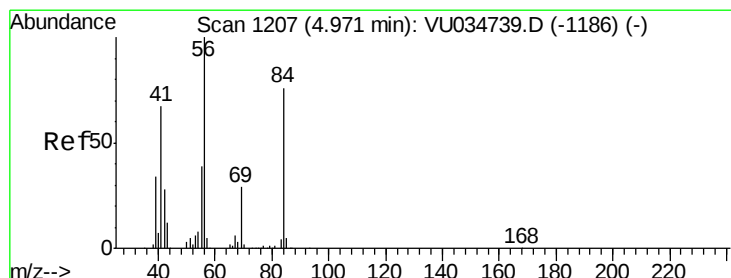
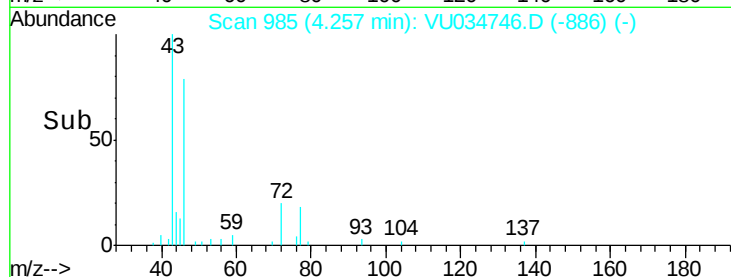
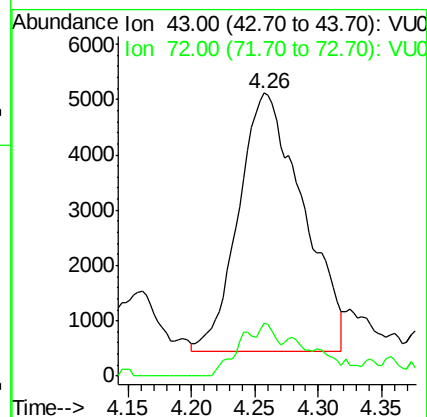
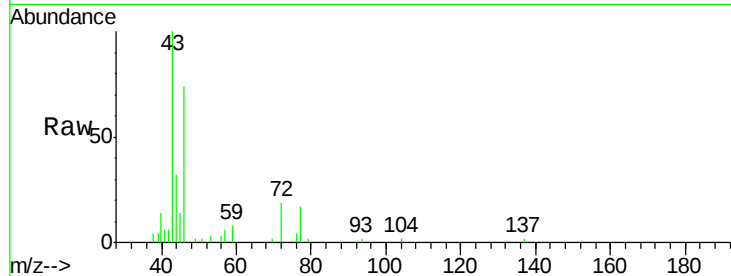
72 0.6 10.2 30.6#

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#29

Cyclohexane

Concen: 2.238 ug/L

RT: 4.97 min Scan# 1206

Delta R.T. -0.00 min

Lab File: VU034746.D

Acq: 23 Sep 2019 20:32

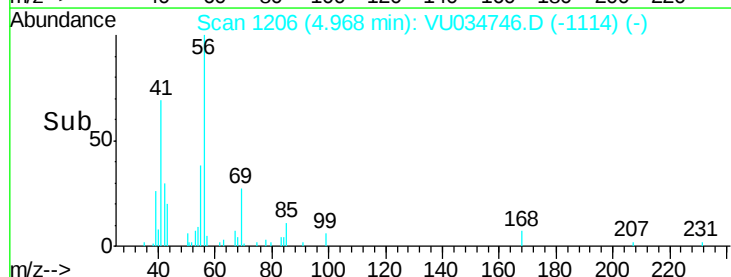
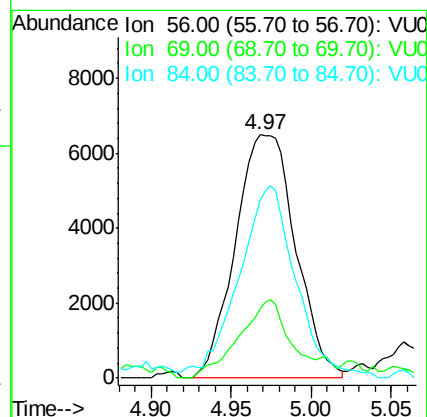
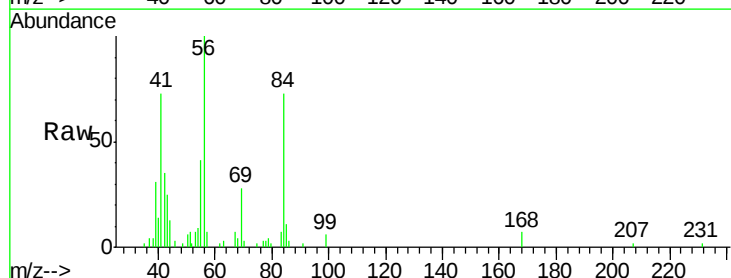
Tgt Ion: 56 Resp: 16798

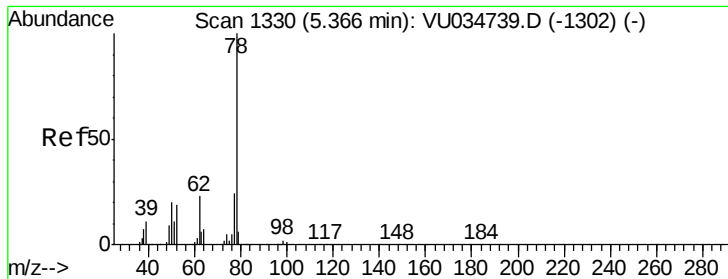
Ion Ratio Lower Upper

56 100

69 27.1 21.7 32.5

84 73.9 58.8 88.2





#33

Benzene

Concen: 14.324 ug/L

RT: 5.37 min Scan# 1330

Delta R.T. -0.00 min

Lab File: VU034746.D

Acq: 23 Sep 2019 20:32

Instrument :

MSVOA_U

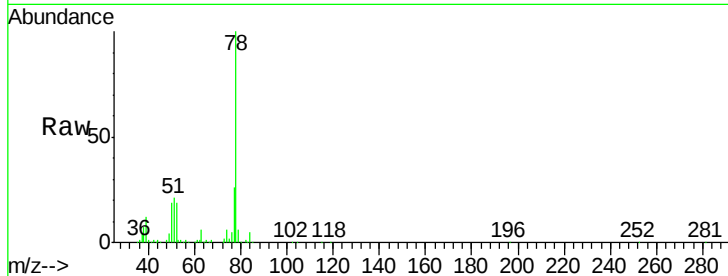
ClientSampled :

BFDG4

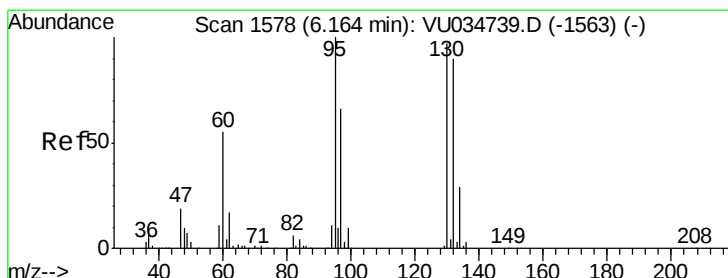
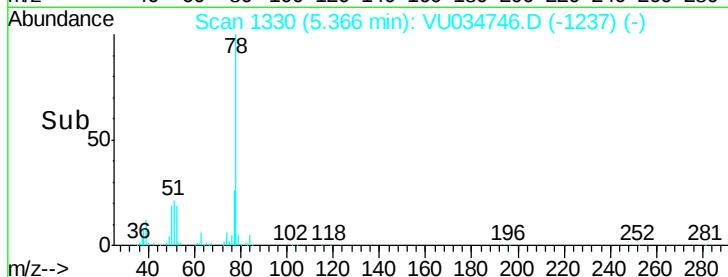
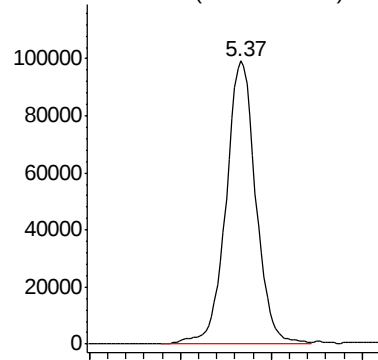
Tgt Ion: 78 Resp: 225923

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Abundance Ion 78.00 (77.70 to 78.70): VU0



#34

Trichloroethene

Concen: 1.383 ug/L m

RT: 6.17 min Scan# 1579

Delta R.T. 0.00 min

Lab File: VU034746.D

Acq: 23 Sep 2019 20:32

Tgt Ion: 95 Resp: 5386

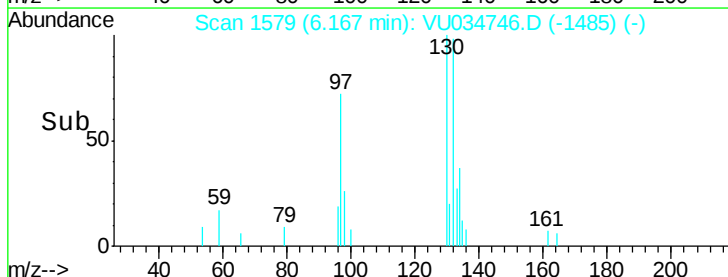
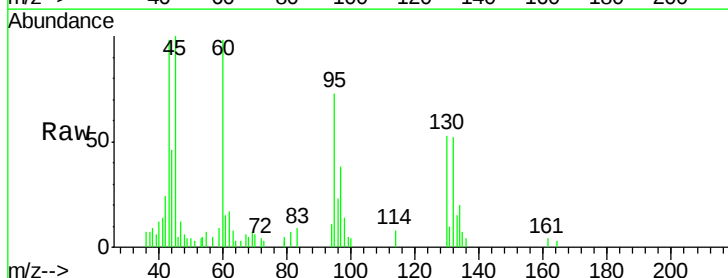
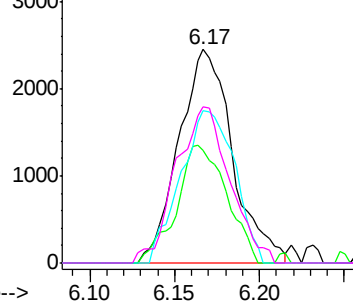
Ion	Ratio	Lower	Upper
95	100		
97	52.6	43.7	81.1
132	71.6	61.0	113.2
130	73.0	65.7	121.9

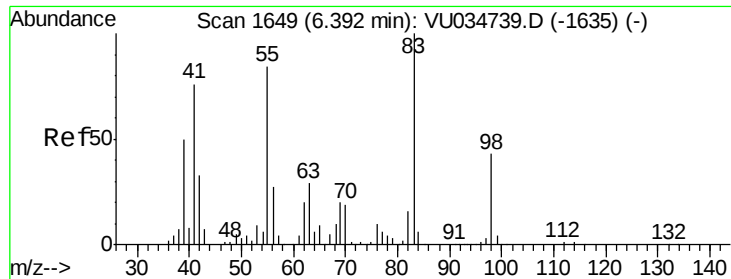
Abundance Ion 95.00 (94.70 to 95.70): VU0

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





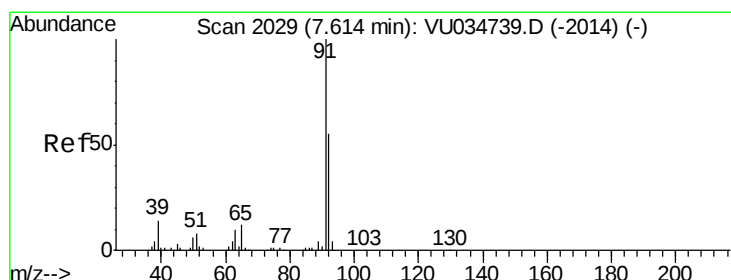
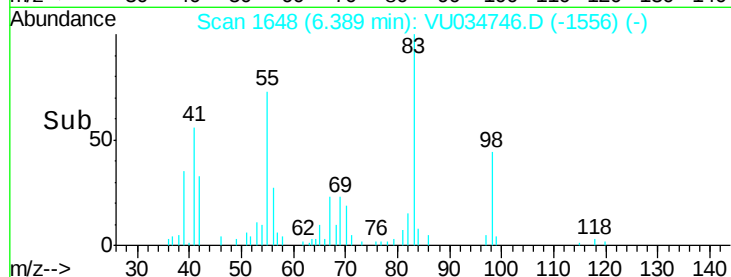
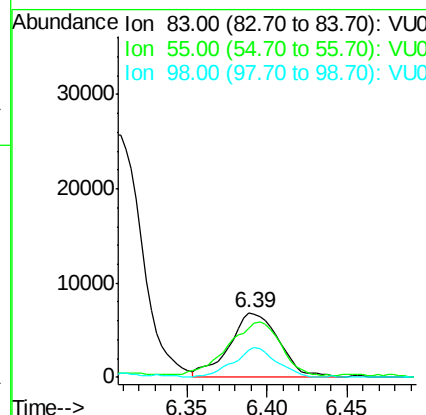
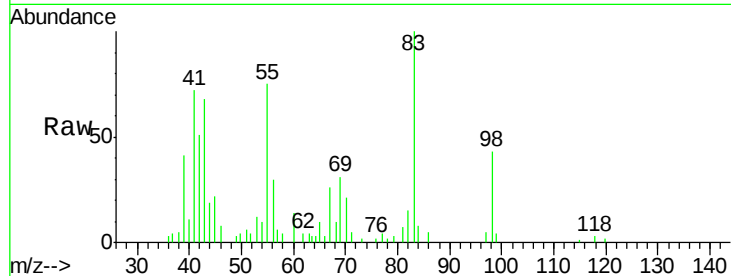
#35
Methvlcvclohexane
Concen: 2.204 ug/L
RT: 6.39 min Scan# 1648
Delta R.T. -0.00 min
Lab File: VU034746.D
Acq: 23 Sep 2019 20:32

Instrument :
MSVOA_U
ClientSampleId :
BFDG4

Tot Ion	83	Resp	14570
Ion Ratio	100	Lower	Upper
83	100		
55	88.6	71.6	107.4
98	40.4	35.7	53.5

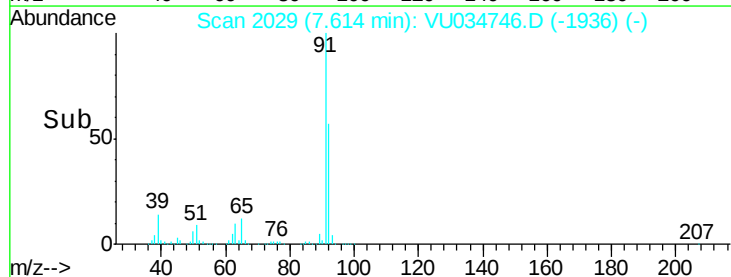
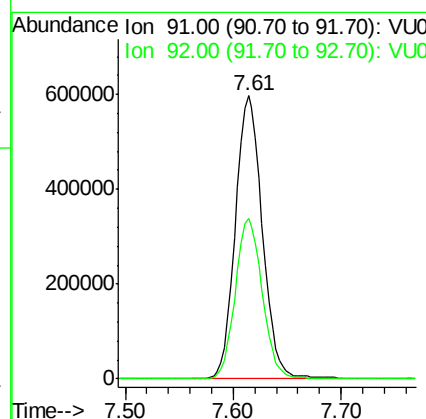
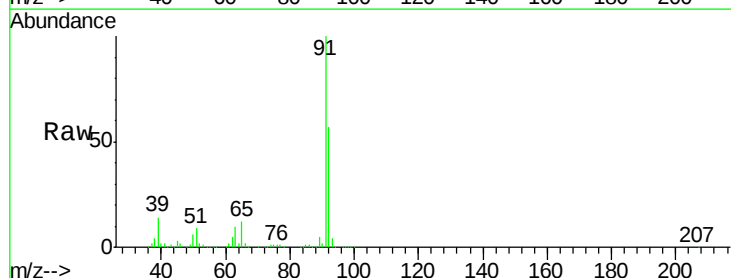
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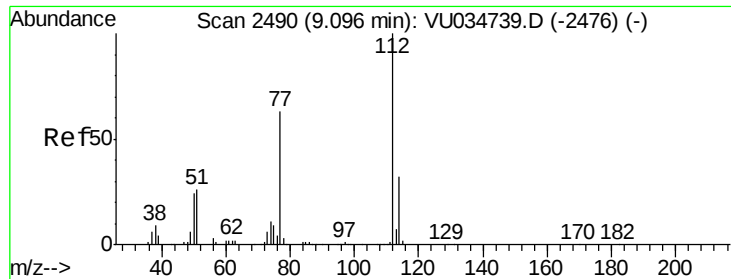
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#42
Toluene
Concen: 60.811 ug/L
RT: 7.61 min Scan# 2029
Delta R.T. -0.00 min
Lab File: VU034746.D
Acq: 23 Sep 2019 20:32

Tgt Ion	91	Resp	1036562
Ion Ratio	100	Lower	Upper
91	100		
92	56.7	38.2	71.0





#51

Chlorobenzene

Concen: 1.917 ug/L

RT: 9.10 min Scan# 2491

Delta R.T. 0.00 min

Lab File: VU034746.D

Acq: 23 Sep 2019 20:32

Instrument :

MSVOA_U

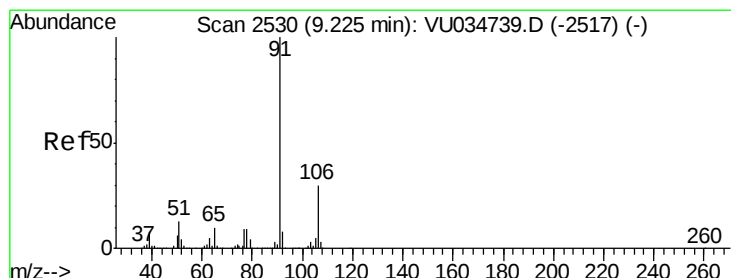
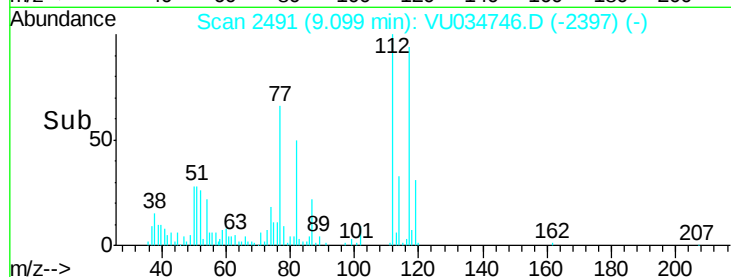
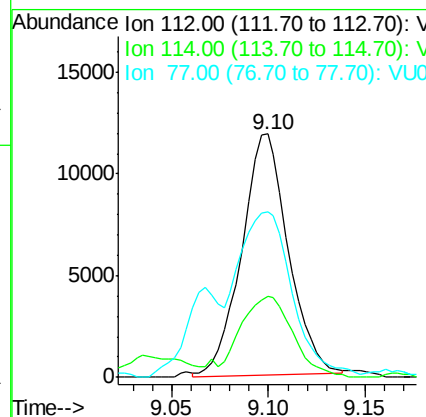
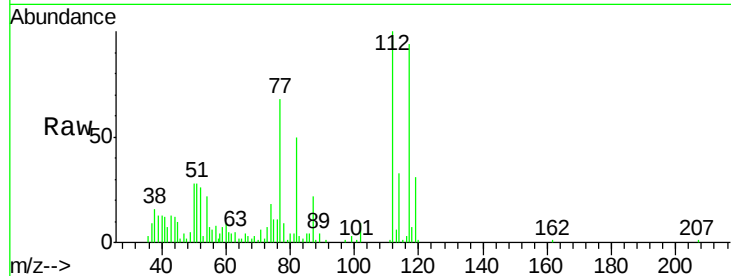
ClientSampleId :

BFDG4

Tot Ion:	112	Resp:	19867
Ion Ratio	Lower	Upper	
112	100		
114	33.5	22.8	42.4
77	68.2	51.5	77.3

Manual Integrations
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#52

Ethylbenzene

Concen: 20.463 ug/L

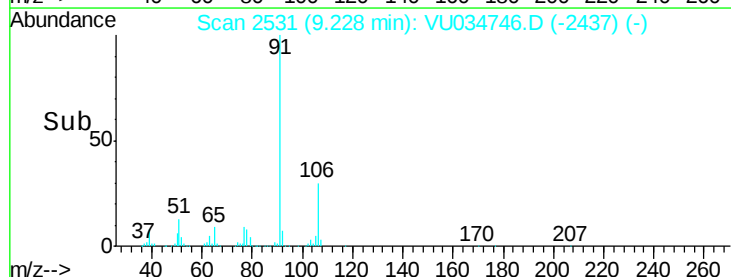
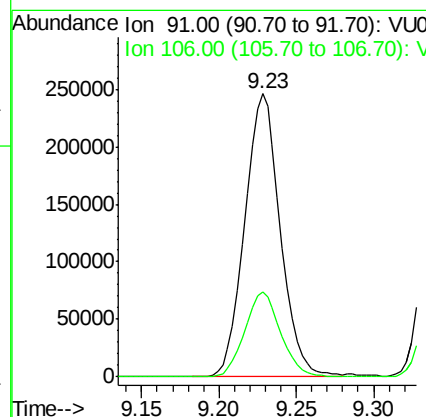
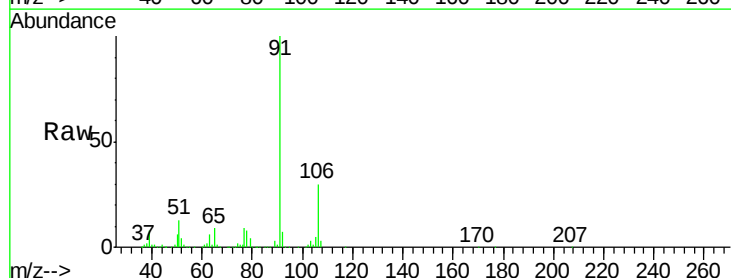
RT: 9.23 min Scan# 2531

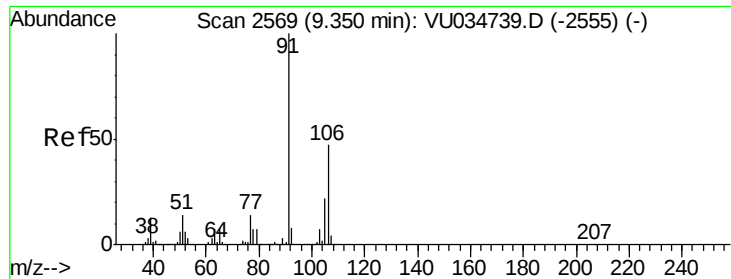
Delta R.T. 0.00 min

Lab File: VU034746.D

Acq: 23 Sep 2019 20:32

Tgt Ion:	91	Resp:	392791
Ion Ratio	Lower	Upper	
91	100		
106	29.9	20.6	38.4





#53

m,p-Xylene

Concen: 77.253 ug/L

RT: 9.35 min Scan# 2569

Delta R.T. -0.00 min

Lab File: VU034746.D

Acq: 23 Sep 2019 20:32

Instrument :

MSVOA_U

ClientSampleId :

BFDG4

Tot Ion:106 Resp: 525221

Ion Ratio Lower Upper

106 100

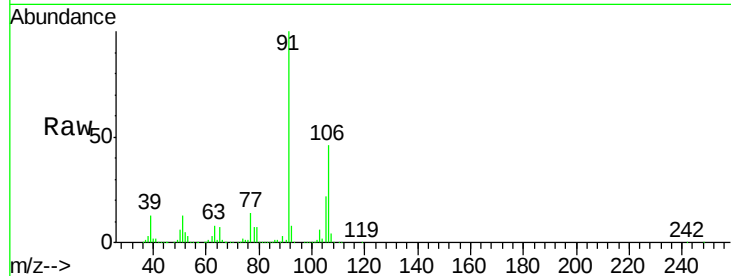
91 219.4 146.9 272.7

Manual Integrations

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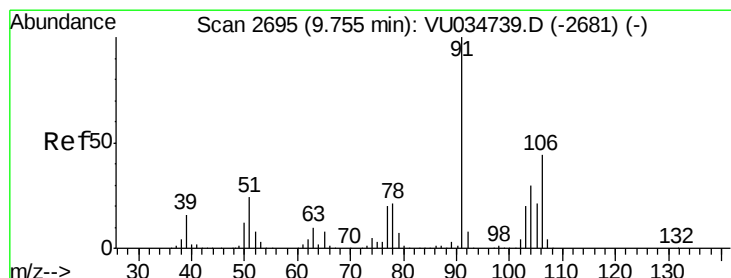
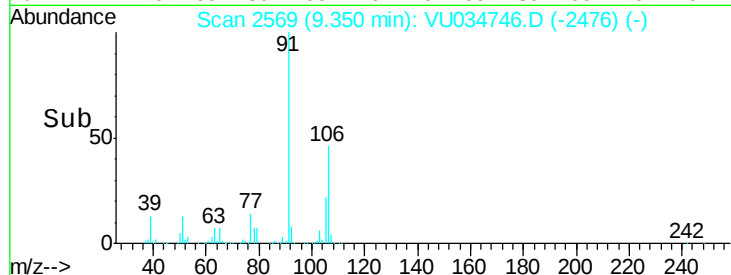
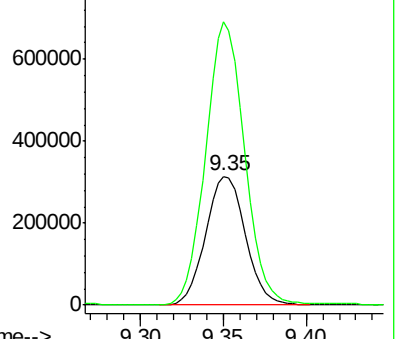
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Abundance Ion 106.00 (105.70 to 106.70): V

Ion 91.00 (90.70 to 91.70): VU0



#54

o-xylene

Concen: 58.456 ug/L

RT: 9.76 min Scan# 2695

Delta R.T. 0.00 min

Lab File: VU034746.D

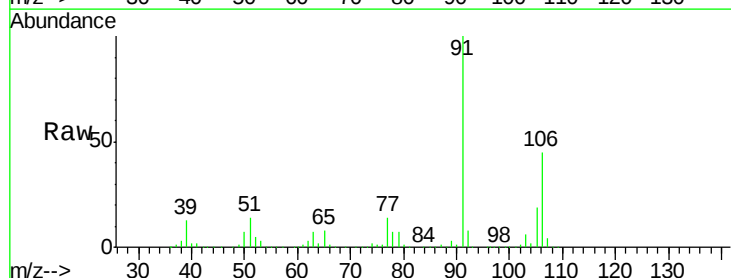
Acq: 23 Sep 2019 20:32

Tgt Ion:106 Resp: 393087

Ion Ratio Lower Upper

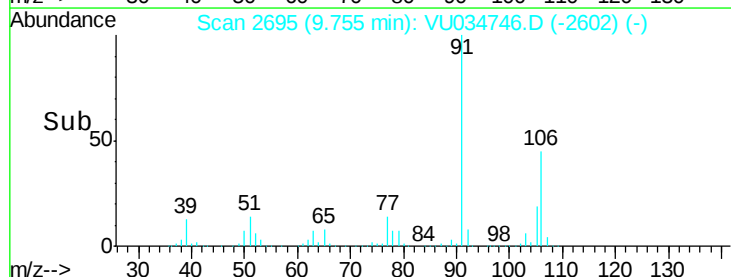
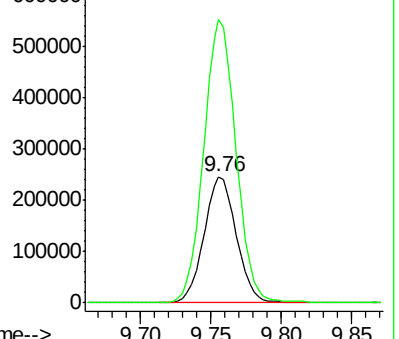
106 100

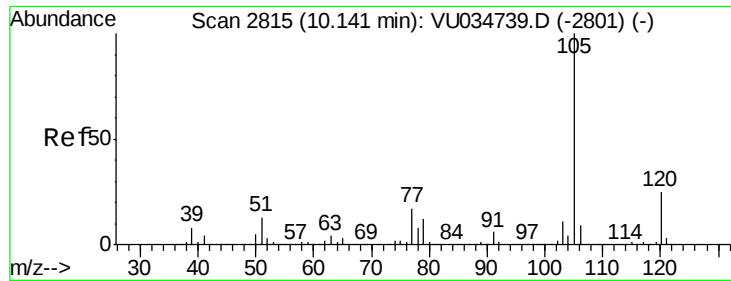
91 223.8 155.6 289.0



Abundance Ion 106.00 (105.70 to 106.70): V

Ion 91.00 (90.70 to 91.70): VU0





#56

Isopropylbenzene

Concen: 2.190 ug/L

RT: 10.14 min Scan# 2816

Delta R.T. 0.00 min

Lab File: VU034746.D

Acq: 23 Sep 2019 20:32

Instrument :

MSVOA_U

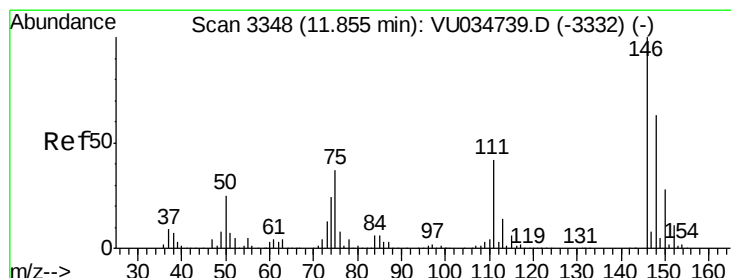
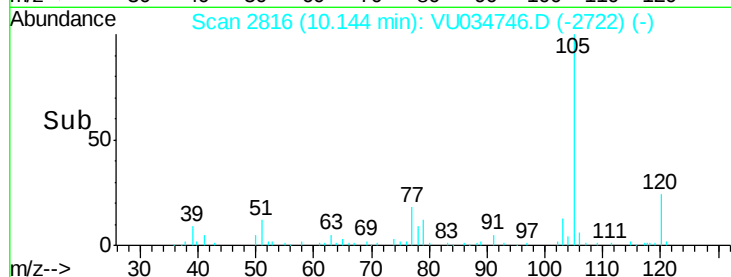
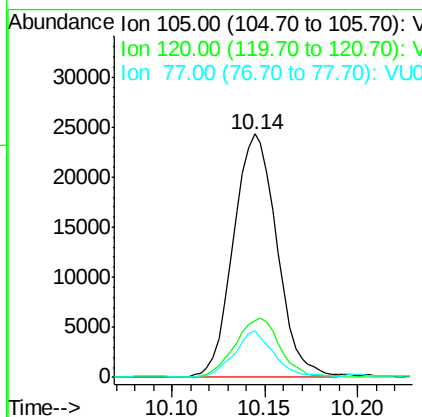
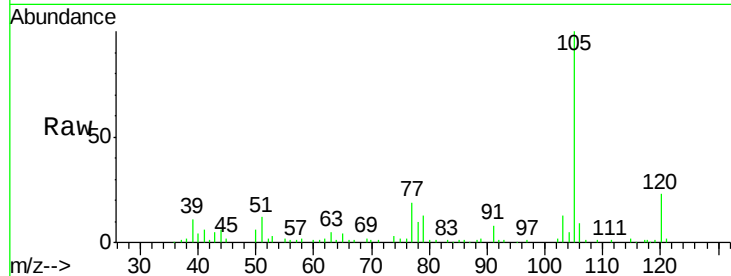
ClientSampled :

BFDG4

Tot Ion:	105	Resp:	39701
Ion Ratio	Lower	Upper	
105	100		
120	25.1	20.4	30.6
77	17.1	14.2	21.4

Manual Integrations
APPROVED

MMDadoda
9/24/2019 12:48:09 PM



#65

1,2-Dichlorobenzene

Concen: 4.444 ug/L

RT: 11.85 min Scan# 3348

Delta R.T. -0.00 min

Lab File: VU034746.D

Acq: 23 Sep 2019 20:32

Tgt Ion:	146	Resp:	34414
Ion Ratio	Lower	Upper	
146	100		
111	43.9	35.2	52.8
148	59.8	53.0	79.6

