

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

Quant Time: Sep 24 03:40:28 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

						Qvalue
10) 1,1,2-Trichloro-1,2,2-trif	2.26	101	2578	0.804	ug/L #	26
13) Acetone	2.31	43	63605	14.819	ug/L	96
16) Methylene chloride	2.68	84	40681	10.438	ug/L	97
20) cis-1,2-Dichloroethene	4.21	96	3392	0.862	ug/L	83
29) Cyclohexane	4.97	56	16798	2.238	ug/L	100
33) Benzene	5.37	78	225923	14.324	ug/L	100
35) Methylcyclohexane	6.39	83	14570	2.204	ug/L	97
40) 4-Methyl-2-pentanone	7.44	43	27578	3.076	ug/L #	76
42) Toluene	7.61	91	1036562	60.811	ug/L	97
48) 2-Hexanone	8.40	43	50505	7.212	ug/L #	1
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
55) Styrene	9.76	104	24449	2.148	ug/L #	1
56) Isopropylbenzene	10.14	105	39701	2.190	ug/L	99
65) 1,2-Dichlorobenzene	11.85	146	34414	4.444	ug/L	95

Data Path : Z:\VOASRV\HPCHEM1\MSVOA_U\DATA\VU092319\
Quantitation Report (Not Reviewed)

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Quant Title : VOC Analysis
QLast Update : Tue Sep 24 03:36:55 2019
Response via : Initial Calibration

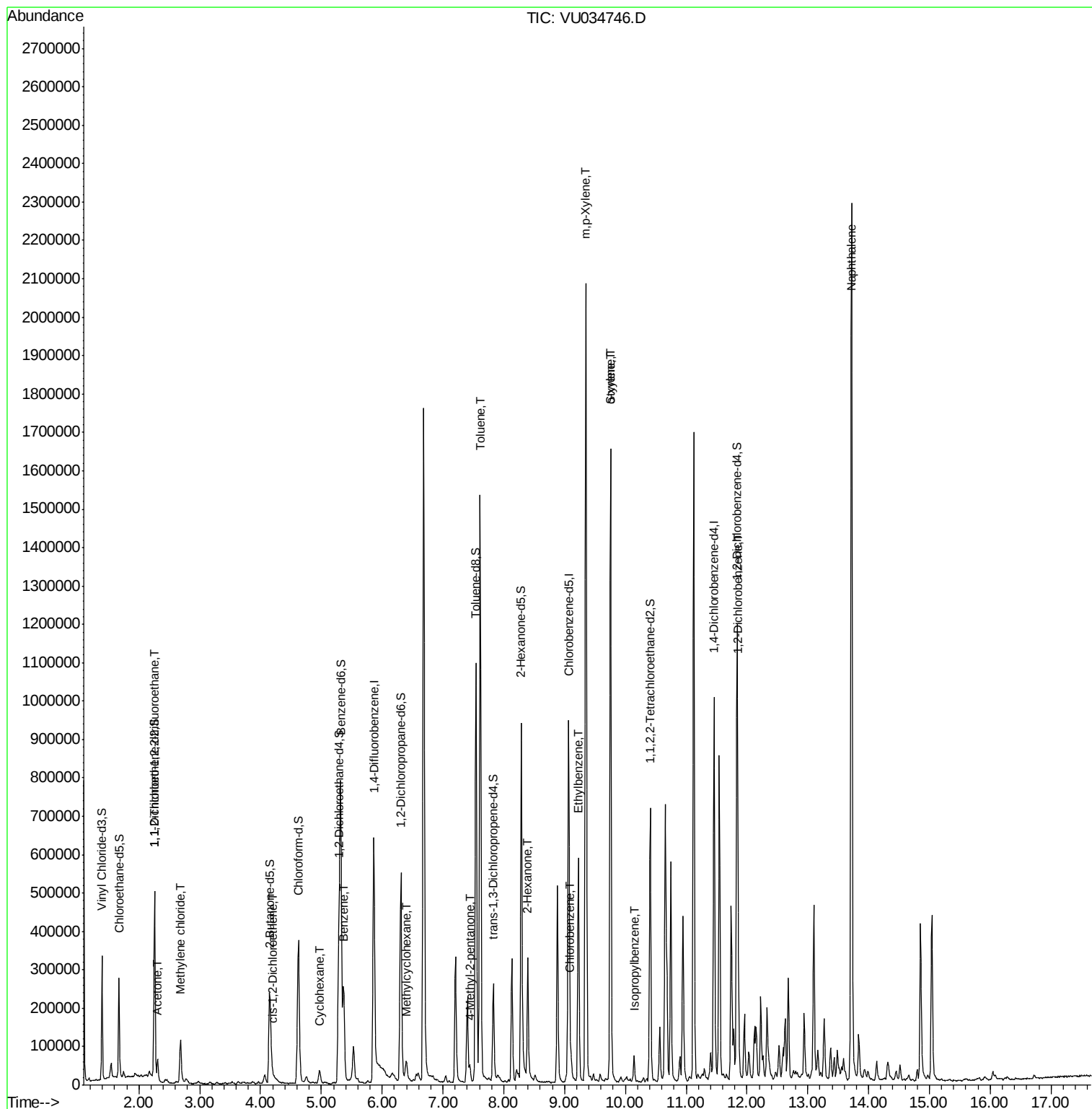
Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
69) Naphthalene	13.72	128	1655708	118.440	ug/L	100

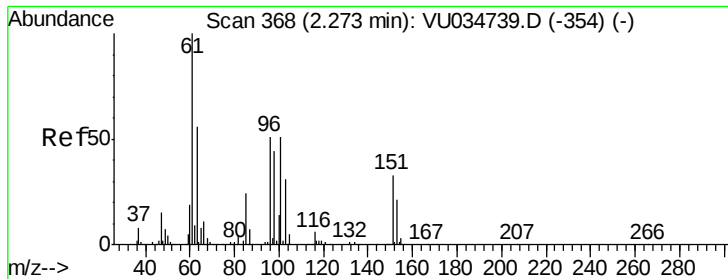
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_U\METHOD\SOMULM091919WMA.M
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#10

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

Concen: 0.804 ug/L

RT: 2.26 min Scan# 364

Delta R.T. -0.01 min

Lab File: VU034746.D

Acq: 23 Sep 2019 20:32

Instrument :

MSVOA_U

ClientSampleId :

BFDG4

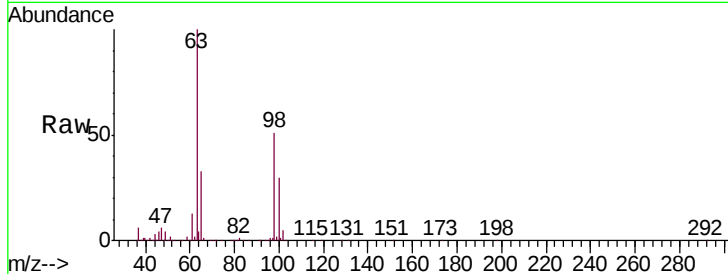
Tgt Ion:101 Resp: 2578

Ion Ratio Lower Upper

101 100

85 2.3 39.0 58.4#

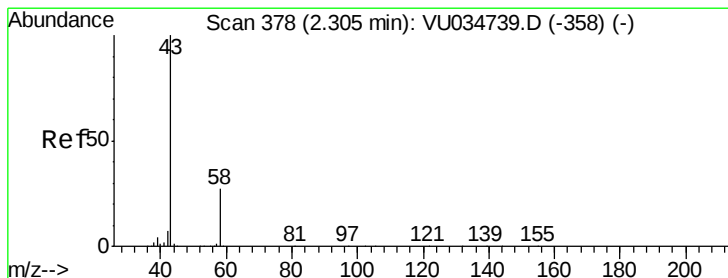
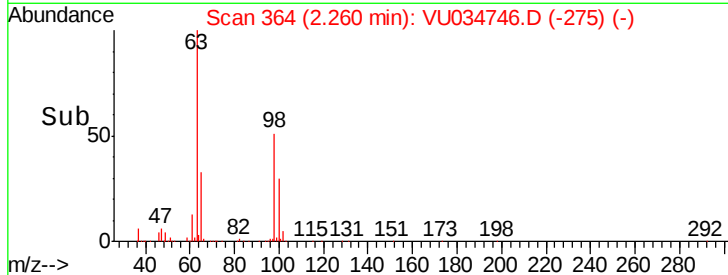
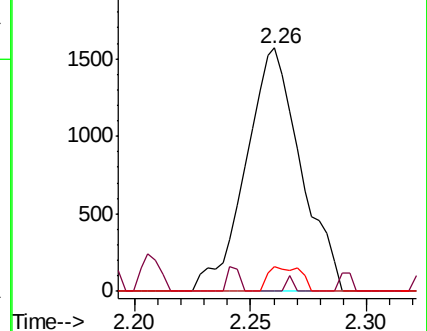
151 4.2 52.8 79.2#



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



#13

Acetone

Concen: 14.819 ug/L

RT: 2.31 min Scan# 379

Delta R.T. 0.00 min

Lab File: VU034746.D

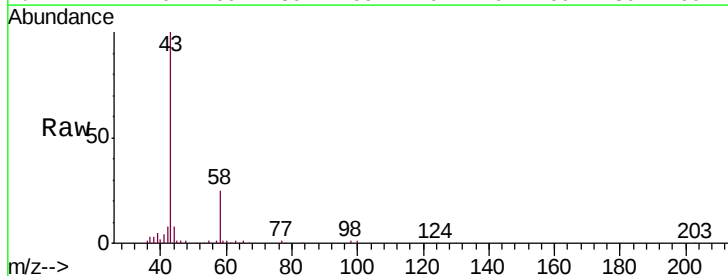
Acq: 23 Sep 2019 20:32

Tgt Ion: 43 Resp: 63605

Ion Ratio Lower Upper

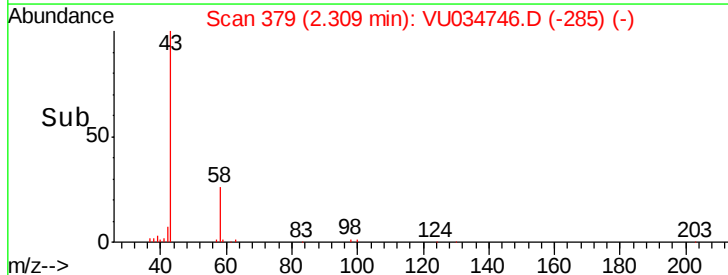
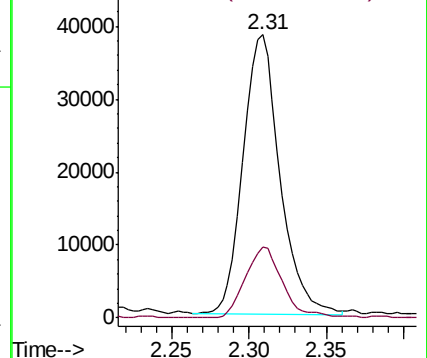
43 100

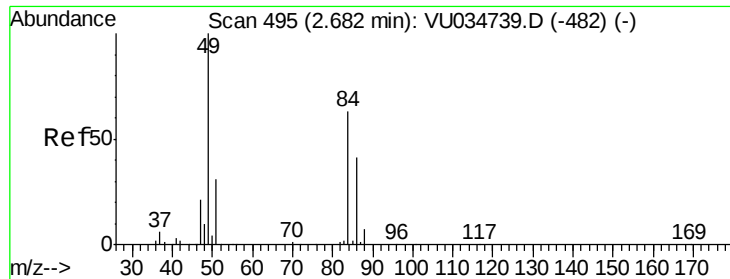
58 24.8 0.0 53.4



Abundance Ion 43.00 (42.70 to 43.70): VU0

Ion 58.00 (57.70 to 58.70): VU0

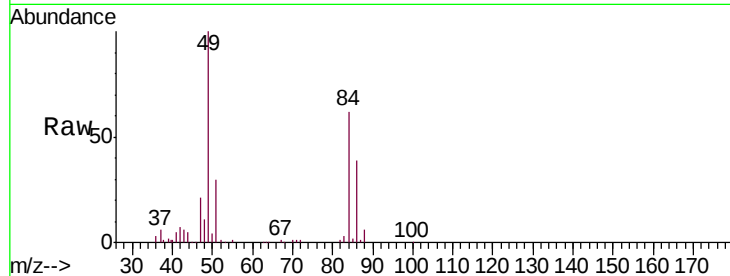




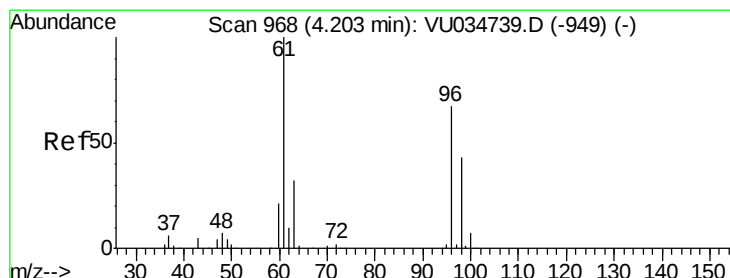
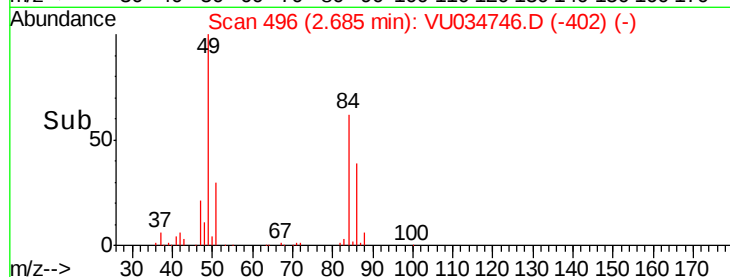
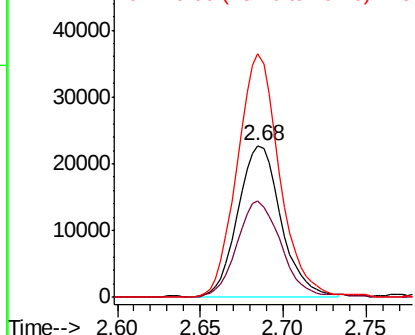
#16
Methylene chloride
Concen: 10.438 ug/L
RT: 2.68 min Scan# 496
Delta R.T. 0.00 min
Lab File: VU034746.D
Acq: 23 Sep 2019 20:32

Instrument :
MSVOA_U
ClientSampleId :
BFDG4

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

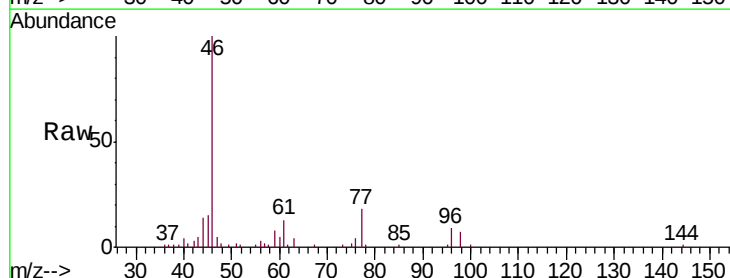


Abundance Ion 84.00 (83.70 to 84.70): VU0
Ion 86.00 (85.70 to 86.70): VU0
Ion 49.00 (48.70 to 49.70): VU0

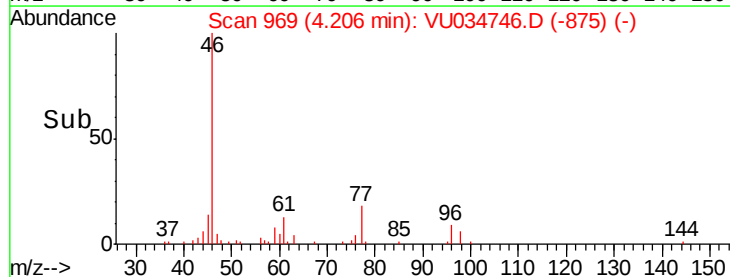
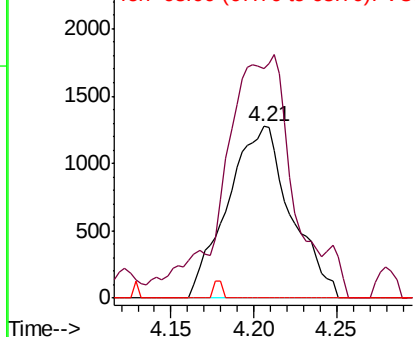


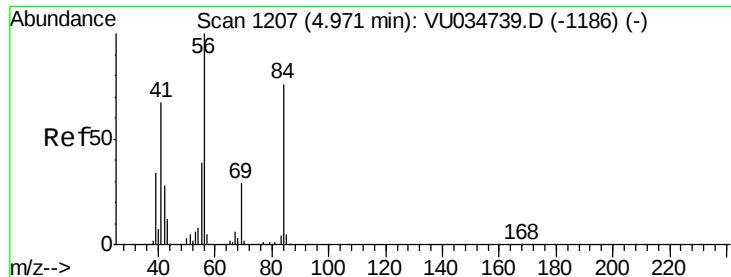
#20
cis-1,2-Dichloroethene
Concen: 0.862 ug/L
RT: 4.21 min Scan# 969
Delta R.T. 0.00 min
Lab File: VU034746.D
Acq: 23 Sep 2019 20:32

Tgt Ion: 96 Resp: 3392
Ion Ratio Lower Upper
96 100
61 133.6 108.8 202.2
68 0.0 0.0 0.0



Abundance Ion 96.00 (95.70 to 96.70): VU0
Ion 61.00 (60.70 to 61.70): VU0
Ion 68.00 (67.70 to 68.70): VU0

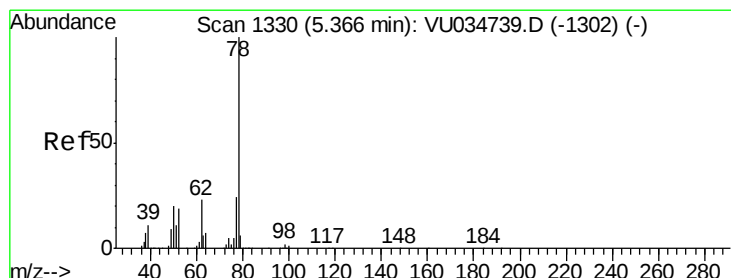
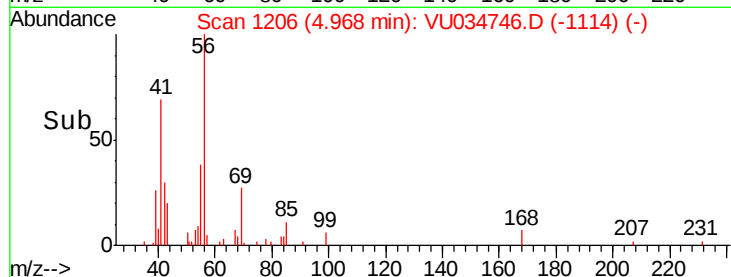
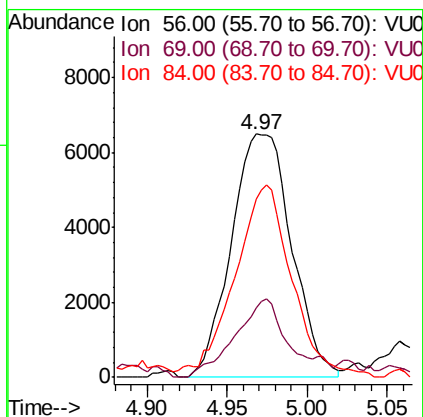
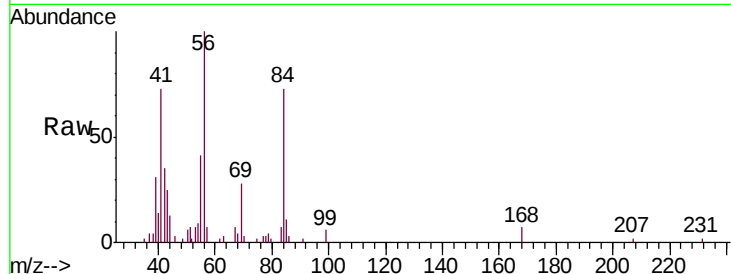




#29
Cyclohexane
Concen: 2.238 ug/L
RT: 4.97 min Scan# 1206
Delta R.T. -0.00 min
Lab File: VU034746.D
Acq: 23 Sep 2019 20:32

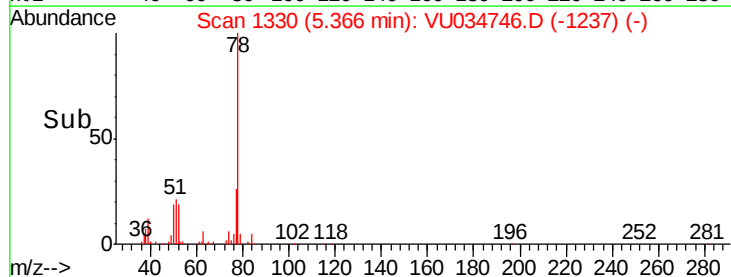
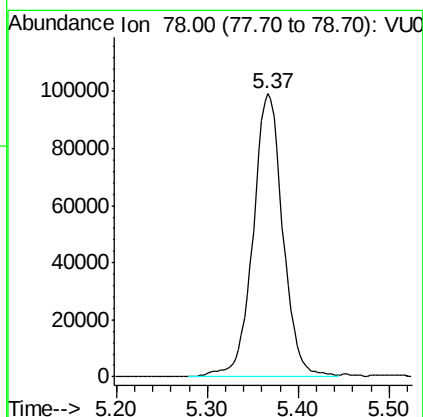
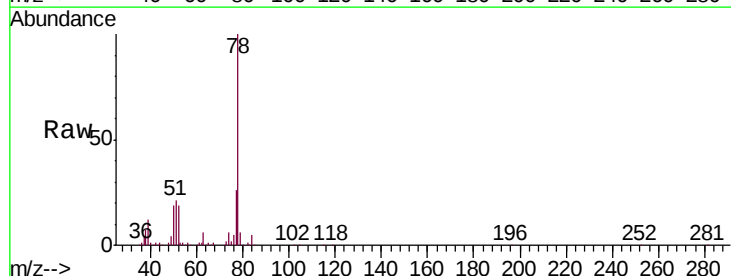
Instrument :
MSVOA_U
ClientSampleId :
BFDG4

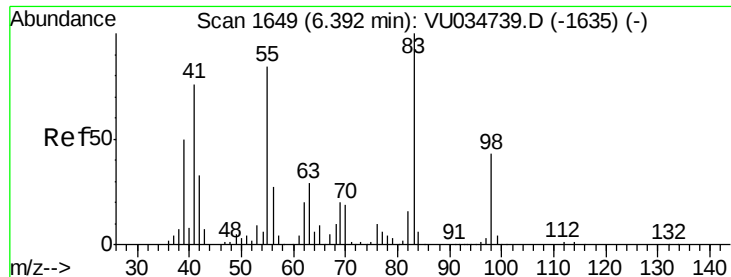
Tgt Ion: 56 Resp: 16798
Ion Ratio Lower Upper
56 100
69 27.1 21.7 32.5
84 73.9 58.8 88.2



#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

Tgt Ion: 78 Resp: 225923

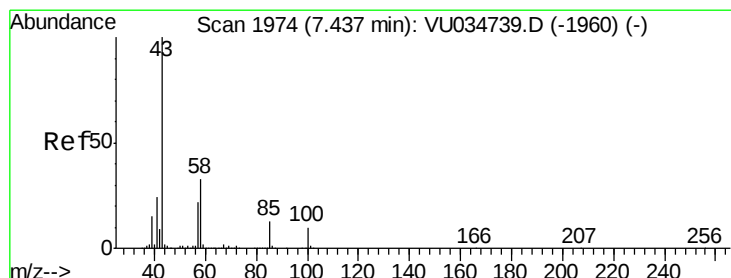
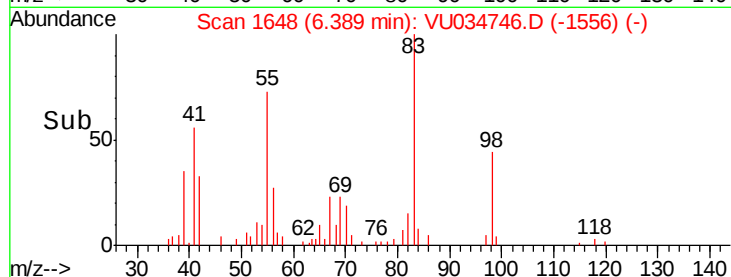
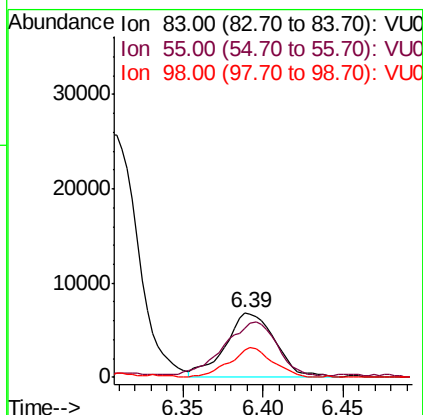
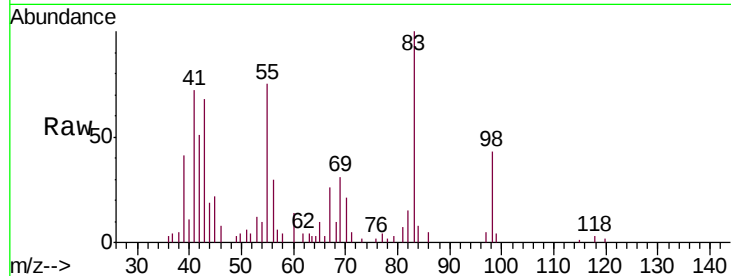




#35
Methylcyclohexane
Concen: 2.204 ug/L
RT: 6.39 min Scan# 1648
Delta R.T. -0.00 min
Lab File: VU034746.D
Acq: 23 Sep 2019 20:32

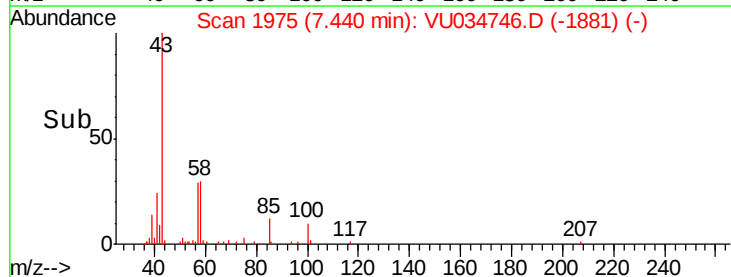
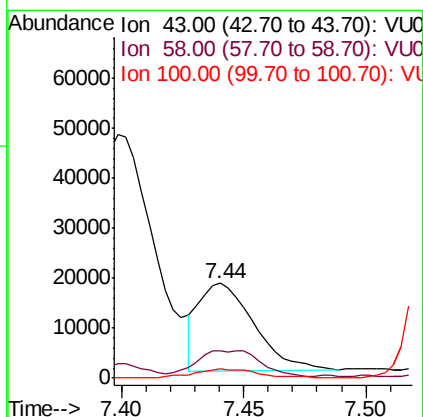
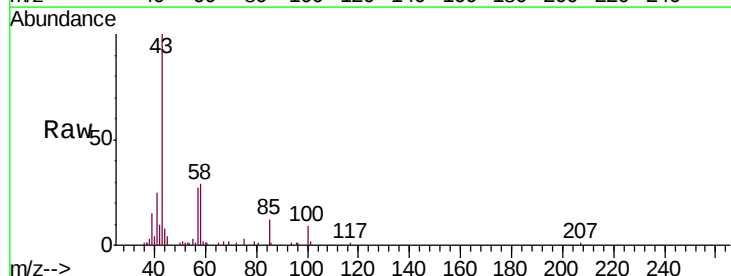
Instrument :
MSVOA_U
ClientSampleId :
BFDG4

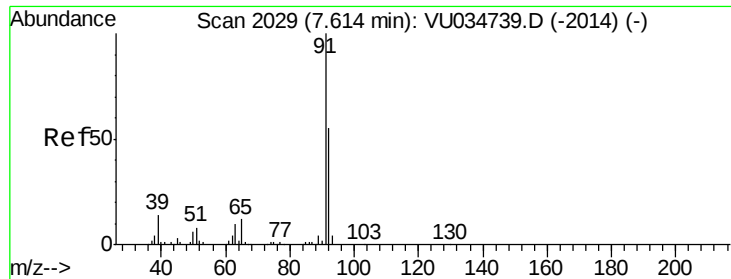
Tgt Ion: 83 Resp: 14570
Ion Ratio Lower Upper
83 100
55 88.6 71.6 107.4
98 40.4 35.7 53.5



#40
4-Methyl-2-pentanone
Concen: 3.076 ug/L
RT: 7.44 min Scan# 1975
Delta R.T. 0.00 min
Lab File: VU034746.D
Acq: 23 Sep 2019 20:32

Tgt Ion: 43 Resp: 27578
Ion Ratio Lower Upper
43 100
58 15.0 25.2 37.8#
100 11.7 7.7 11.5#





#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

Instrument :

MSVOA_U

ClientSampleId :

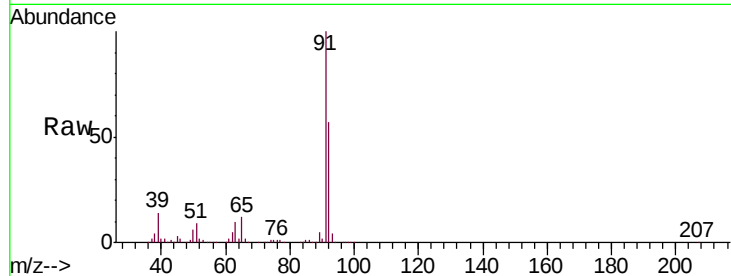
BFDG4

Tgt Ion: 91 Resp: 1036562

Ion Ratio Lower Upper

91 100

92 56.7 38.2 71.0



Abundance Ion 91.00 (90.70 to 91.70): VU034739.D (-2014) (-)

Ion 92.00 (91.70 to 92.70): VU034739.D (-2014) (-)

7.61

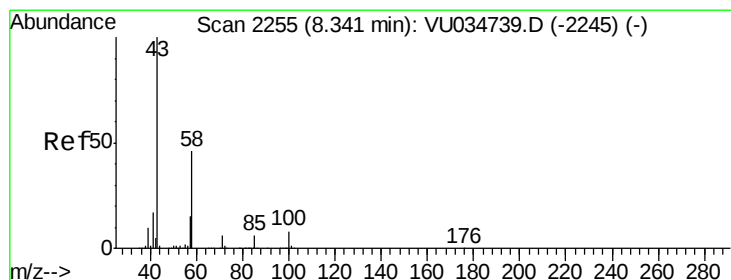
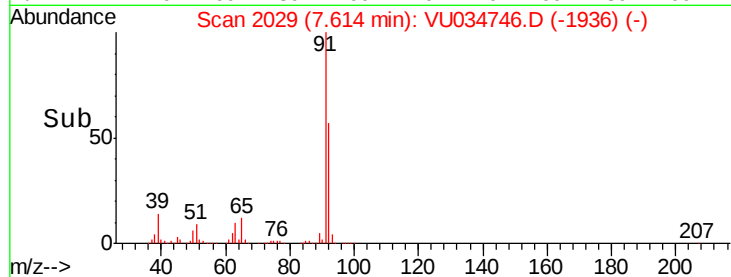
600000

400000

200000

0

Time-->



#48

2-Hexanone

Concen: 7.212 ug/L

RT: 8.40 min Scan# 2272

Delta R.T. 0.05 min

Lab File: VU034746.D

Acq: 23 Sep 2019 20:32

Tgt Ion: 43 Resp: 50505

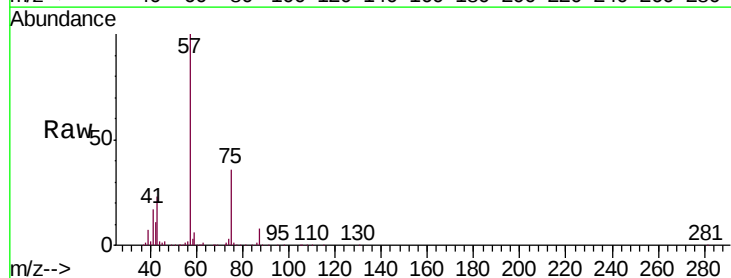
Ion Ratio Lower Upper

43 100

58 5.1 35.3 52.9#

57 444.5 12.1 18.1#

100 0.0 6.2 9.4#



Abundance Ion 43.00 (42.70 to 43.70): VU034739.D (-2245) (-)

Ion 58.00 (57.70 to 58.70): VU034739.D (-2245) (-)

Ion 57.00 (56.70 to 57.70): VU034739.D (-2245) (-)

Ion 100.00 (99.70 to 100.70): VU034739.D (-2245) (-)

200000

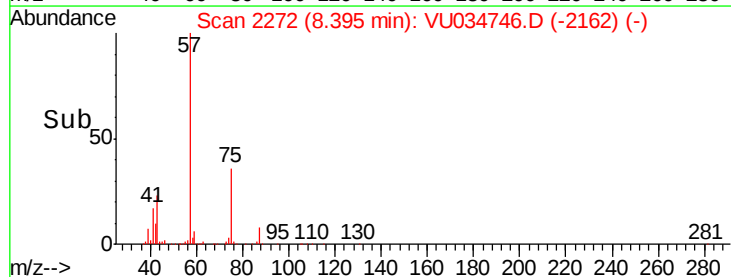
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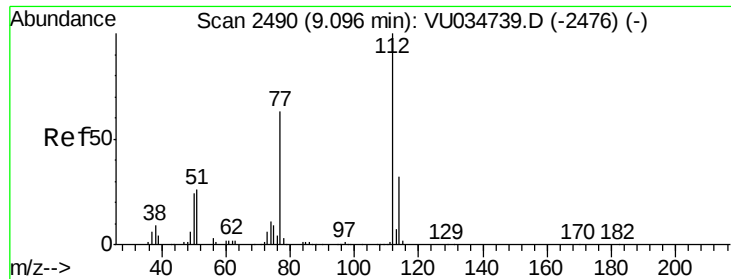
50000

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Time-->



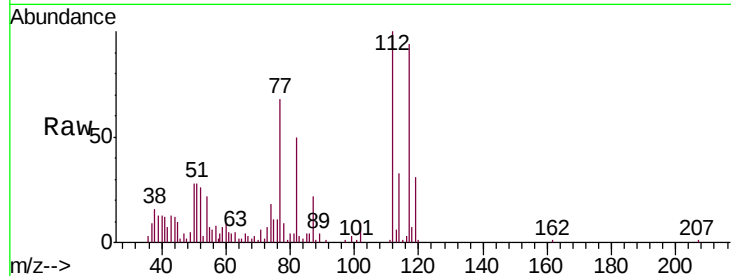
Time-->



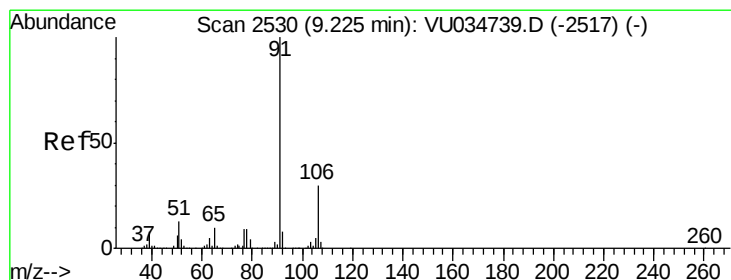
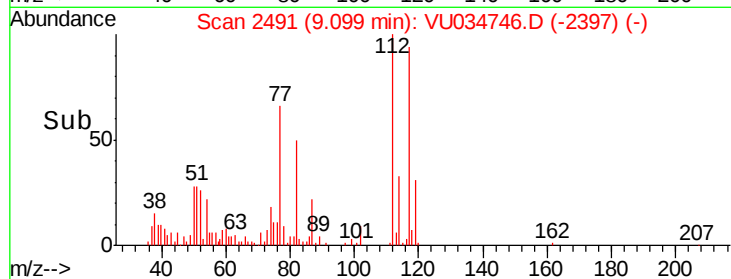
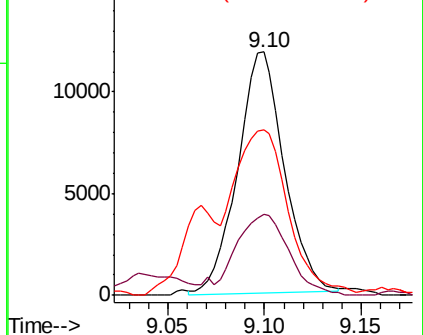
#51
Chlorobenzene
Concen: 1.917 ug/L
RT: 9.10 min Scan# 2491
Delta R.T. 0.00 min
Lab File: VU034746.D
Acq: 23 Sep 2019 20:32

Instrument :
MSVOA_U
ClientSampleId :
BFDG4

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

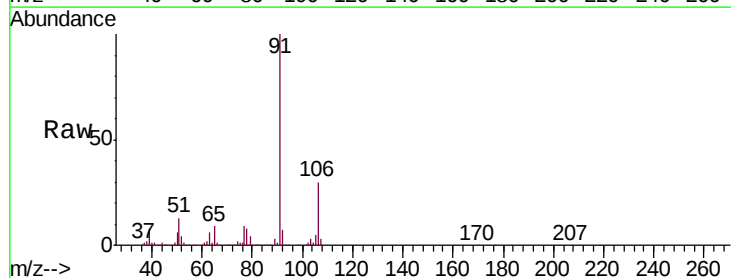


Abundance Ion 112.00 (111.70 to 112.70): V
Ion 114.00 (113.70 to 114.70): V
Ion 77.00 (76.70 to 77.70): V

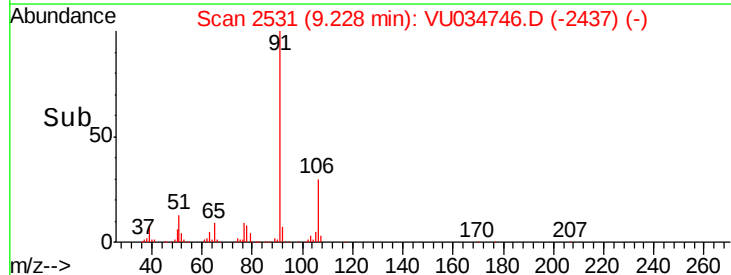
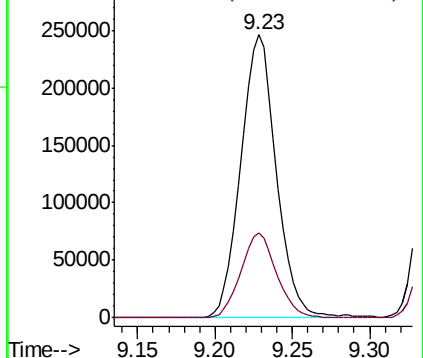


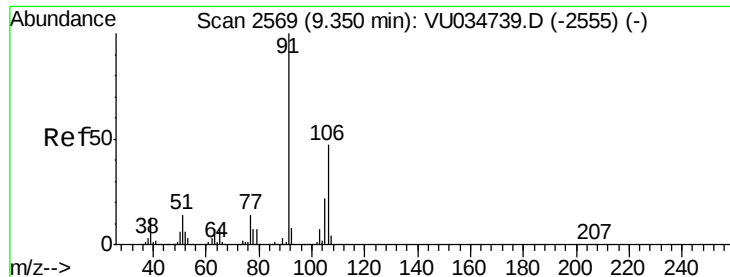
#52
Ethylbenzene
Concen: 20.463 ug/L
RT: 9.23 min Scan# 2531
Delta R.T. 0.00 min
Lab File: VU034746.D
Acq: 23 Sep 2019 20:32

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



Abundance Ion 91.00 (90.70 to 91.70): V
Ion 106.00 (105.70 to 106.70): V





#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 :

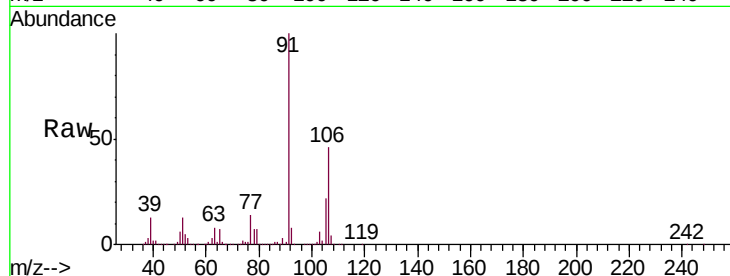
BFDG4

Tgt Ion:106 Resp: 525221

Ion Ratio Lower Upper

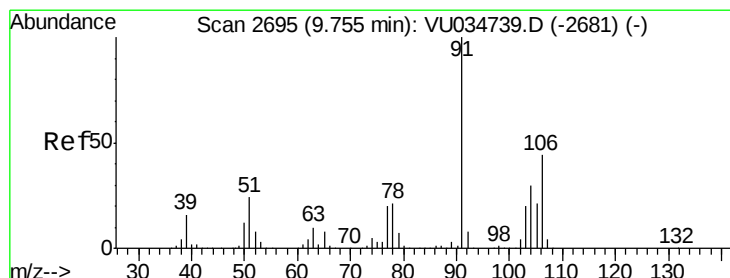
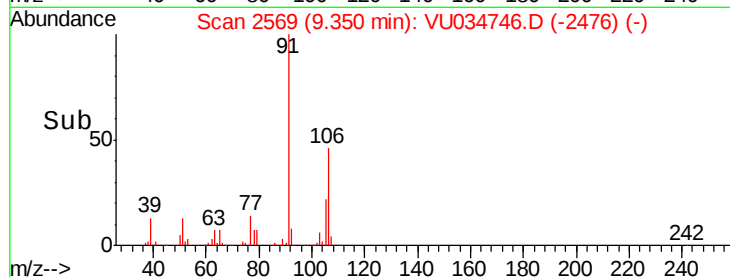
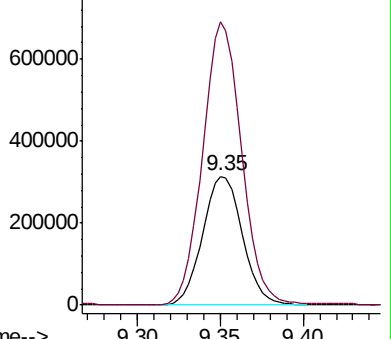
106 100

91 219.4 146.9 272.7



Abundance Ion 106.00 (105.70 to 106.70): V

Ion 91.00 (90.70 to 91.70): VU0



#54

o-xylene

Concen: 58.456 ug/L

RT: 9.76 min Scan# 2695

Delta R.T. 0.00 min

Lab File: VU034746.D

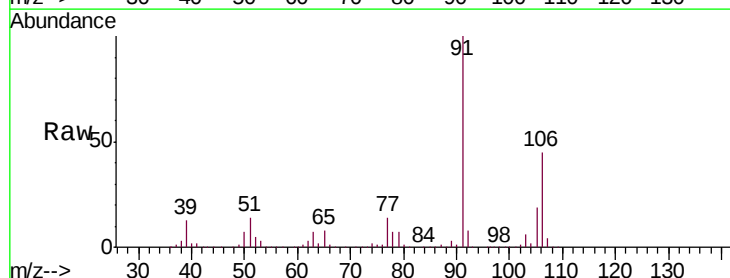
Acq: 23 Sep 2019 20:32

Tgt Ion:106 Resp: 393087

Ion Ratio Lower Upper

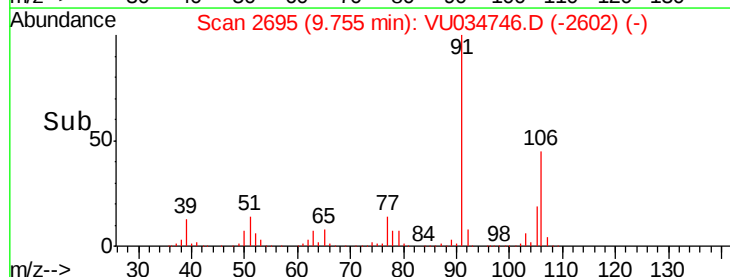
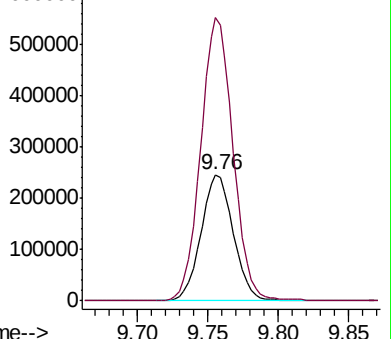
106 100

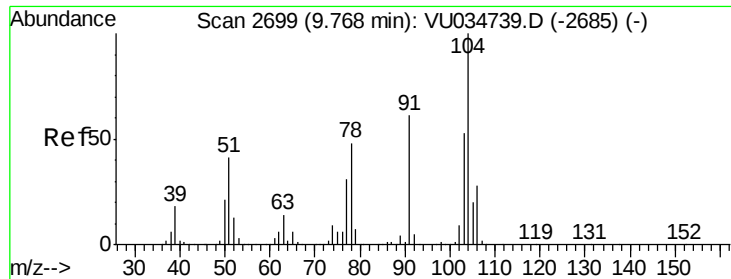
91 223.8 155.6 289.0



Abundance Ion 106.00 (105.70 to 106.70): V

Ion 91.00 (90.70 to 91.70): VU0





#55

Styrene

Concen: 2.148 ug/L

RT: 9.76 min Scan# 2695

Delta R.T. -0.01 min

Lab File: VU034746.D

Acq: 23 Sep 2019 20:32

Instrument :

MSVOA_U

ClientSampleId :

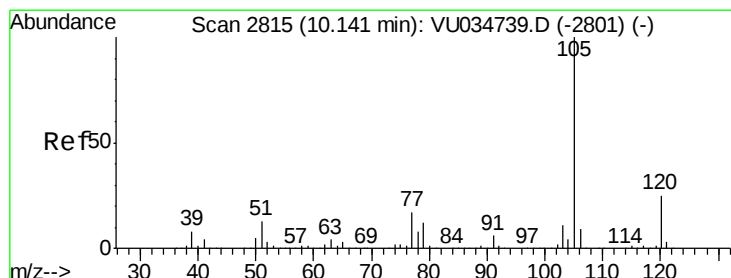
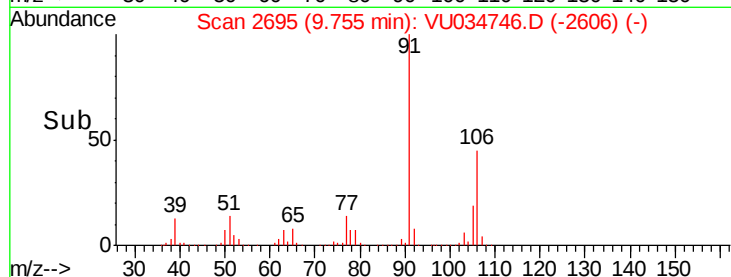
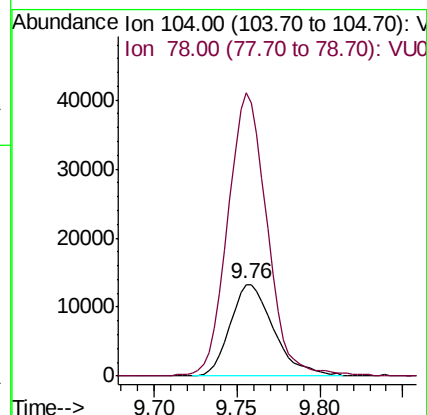
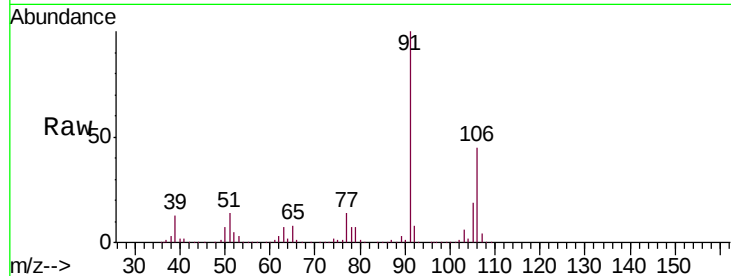
BFDG4

Tgt Ion:104 Resp: 24449

Ion Ratio Lower Upper

104 100

78 309.4 35.1 65.3#



#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

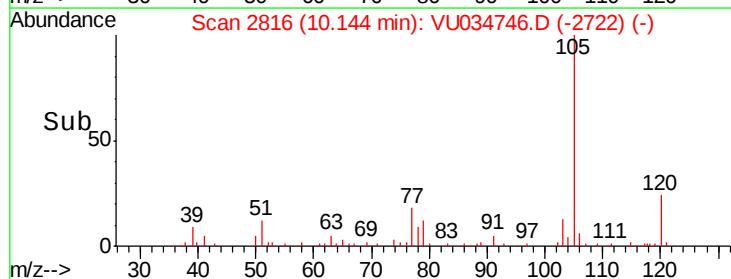
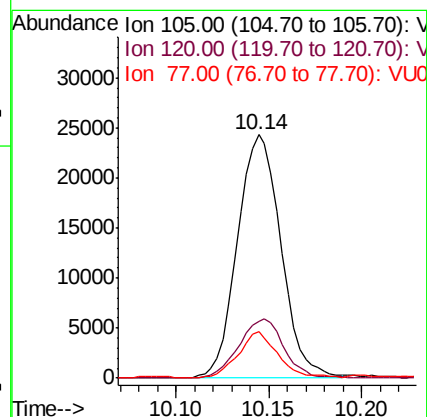
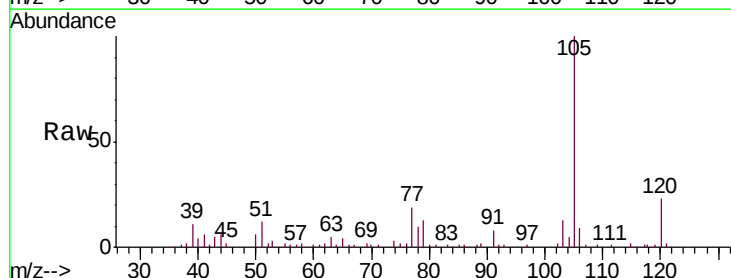
Tgt Ion:105 Resp: 39701

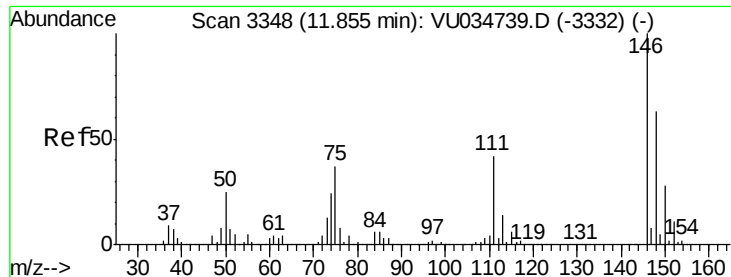
Ion Ratio Lower Upper

105 100

120 25.1 20.4 30.6

77 17.1 14.2 21.4





#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

Instrument :

MSVOA_U

ClientSampleId :

BFDG4

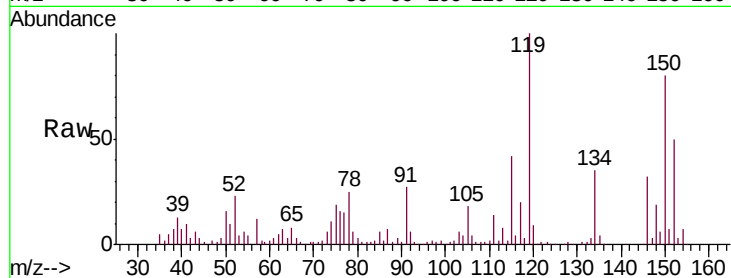
Tgt Ion:146 Resp: 34414

Ion Ratio Lower Upper

146 100

111 43.9 35.2 52.8

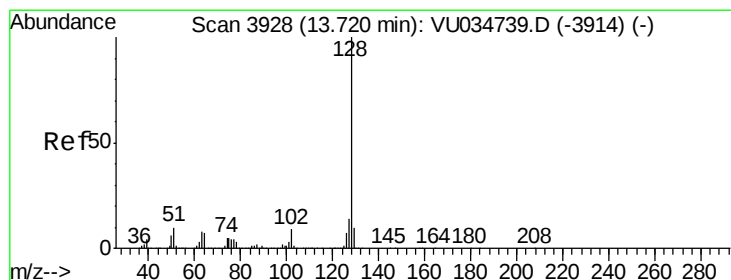
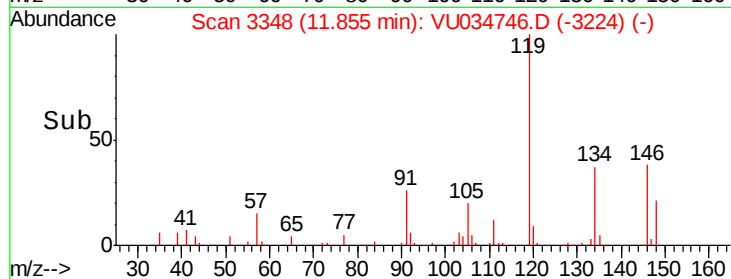
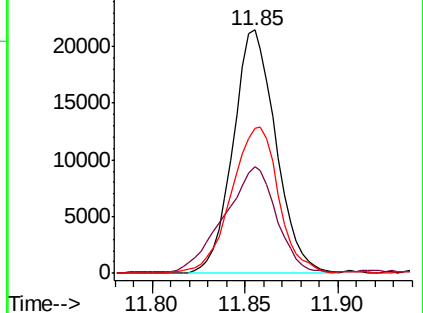
148 59.8 53.0 79.6



Abundance Ion 146.00 (145.70 to 146.70): V

Ion 111.00 (110.70 to 111.70): V

Ion 148.00 (147.70 to 148.70): V



#69

Naphthalene

Concen: 118.440 ug/L

RT: 13.72 min Scan# 3928

Delta R.T. -0.00 min

Lab File: VU034746.D

Acq: 23 Sep 2019 20:32

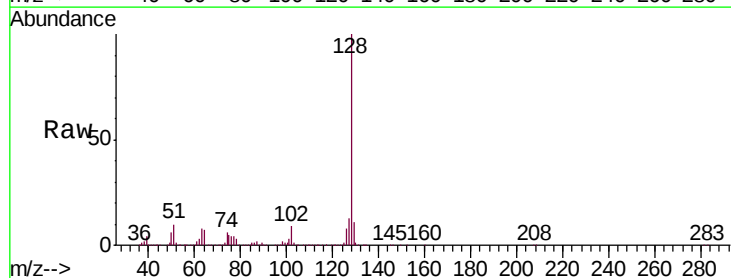
Tgt Ion:128 Resp: 1655708

Ion Ratio Lower Upper

128 100

127 13.4 10.8 16.2

129 10.7 8.6 12.8



Abundance Ion 128.00 (127.70 to 128.70): V

Ion 127.00 (126.70 to 127.70): V

Ion 129.00 (128.70 to 129.70): V

