

Data Path : Z:\VOASRV\HPCHEM1\MSVOA U\DATA\VU092319\
 Data File : VU034749.D
 Acq On : 23 Sep 2019 21:42
 Operator : JC/SP
 Sample : K4932-05
 Misc : 5.0mL/MSVOA U/WATER
 ALS Vial : 26 Sample Multiplier: 1

Instrument :
 MSVOA_U
 ClientSampleId :
 BFDG7

Quant Time: Sep 24 05:01:52 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	466872	50.00	ug/L	0.00
28) Chlorobenzene-d5	9.07	117	443627	50.00	ug/L	0.00
60) 1,4-Dichlorobenzene-d4	11.46	152	215656	50.00	ug/L	0.00

System Monitoring Compounds

4) Vinyl Chloride-d3	1.39	65	210573	44.06	ug/L	0.00
Spiked Amount	50.000	Range	60 - 135	Recovery	=	88.12%
7) Chloroethane-d5	1.67	69	173348	46.93	ug/L	0.00
Spiked Amount	50.000	Range	70 - 130	Recovery	=	93.86%
11) 1,1-Dichloroethene-d2	2.26	63	297426	36.75	ug/L	0.00
Spiked Amount	50.000	Range	60 - 125	Recovery	=	73.50%
21) 2-Butanone-d5	4.15	46	475434	129.79	ug/L	0.00
Spiked Amount	100.000	Range	40 - 130	Recovery	=	129.79%
24) Chloroform-d	4.62	84	362889	52.23	ug/L	0.00
Spiked Amount	50.000	Range	70 - 125	Recovery	=	104.46%
26) 1,2-Dichloroethane-d4	5.29	65	270231	52.90	ug/L	0.00
Spiked Amount	50.000	Range	70 - 125	Recovery	=	105.80%
32) Benzene-d6	5.32	84	743317	54.06	ug/L	0.00
Spiked Amount	50.000	Range	70 - 125	Recovery	=	108.12%
36) 1,2-Dichloropropane-d6	6.31	67	262866	54.69	ug/L	0.00
Spiked Amount	50.000	Range	70 - 120	Recovery	=	109.38%
41) Toluene-d8	7.54	98	713487	54.54	ug/L	0.00
Spiked Amount	50.000	Range	80 - 120	Recovery	=	109.08%
43) trans-1,3-Dichloropropene-	7.83	79	120850	52.50	ug/L	0.00
Spiked Amount	50.000	Range	60 - 125	Recovery	=	105.00%
47) 2-Hexanone-d5	8.29	63	307309	127.31	ug/L	0.00
Spiked Amount	100.000	Range	45 - 130	Recovery	=	127.31%
57) 1,1,2,2-Tetrachloroethane-	10.41	84	349819	52.46	ug/L	0.00
Spiked Amount	50.000	Range	65 - 120	Recovery	=	104.92%
64) 1,2-Dichlorobenzene-d4	11.84	152	251865	55.70	ug/L	0.00
Spiked Amount	50.000	Range	80 - 120	Recovery	=	111.40%

Target Compounds

Target Compounds	R.T.	QIon	Response	Conc	Units	Ovalue
5) Vinyl chloride	1.40	62	9477	1.800	ug/L #	69
13) Acetone	2.31	43	163109	38.278	ug/L	98
15) Methyl Acetate	2.61	43	7015	1.232	ug/L	97
16) Methylene chloride	2.68	84	42773	11.055	ug/L	98
19) 1,1-Dichloroethane	3.43	63	14493	1.892	ug/L	93
20) cis-1,2-Dichloroethene	4.20	96	37487	9.600	ug/L	95
22) 2-Butanone	4.25	43	62980	12.424	ug/L	84
29) Cyclohexane	4.97	56	9718	1.327	ug/L #	53
33) Benzene	5.37	78	194491	12.641	ug/L	100
34) Trichloroethene	6.16	95	32665	8.596	ug/L	92
35) Methylcyclohexane	6.39	83	9391	1.456	ug/L	91
40) 4-Methyl-2-pentanone	7.44	43	358758	41.017	ug/L	98
42) Toluene	7.61	91	1422900	85.572	ug/L	98
52) Ethylbenzene	9.23	91	371280	19.828	ug/L	99
53) m,p-Xylene	9.35	106	515905	77.788	ug/L	99
54) o-xylene	9.76	106	336965	51.368	ug/L	98
56) Isopropylbenzene	10.14	105	35940	2.032	ug/L	96

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ALS Vial : 26 Sample Multiplier: 1

Instrument :
MSVOA_U
ClientSampleId :
BFDG7

Quant Time: Sep 24 05:01:52 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

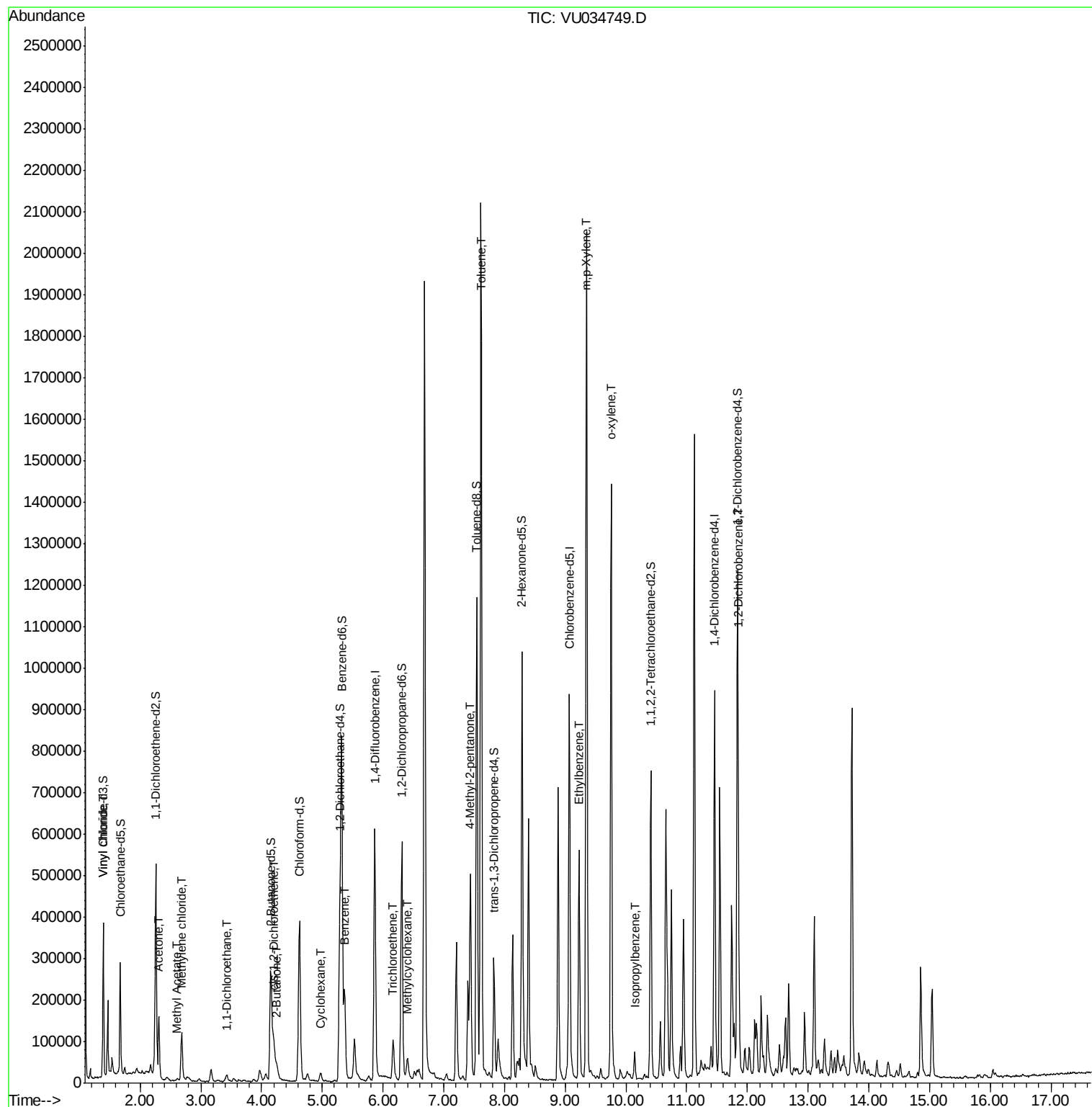
Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
-----	-----	-----	-----	-----	-----	-----
65) 1,2-Dichlorobenzene	11.86	146	47078	6.239	ug/L	97
-----	-----	-----	-----	-----	-----	-----

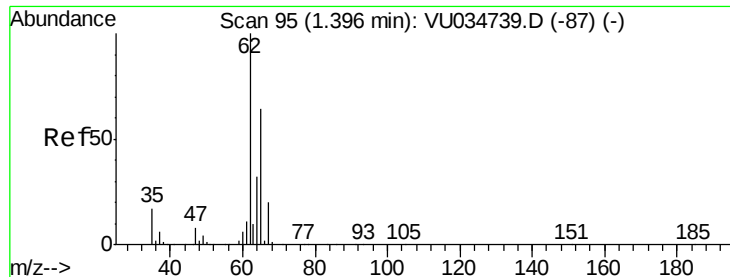
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\V0ASRV\HPCHEM1\MSVOA U\DATA\VU092319\
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Quant Time: Sep 24 05:01:52 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





#5

Vinyl chloride

Concen: 1.800 ug/L

RT: 1.40 min Scan# 96

Delta R.T. 0.00 min

Lab File: VU034749.D

Acq: 23 Sep 2019 21:42

Instrument :

MSVOA_U

ClientSampleId :

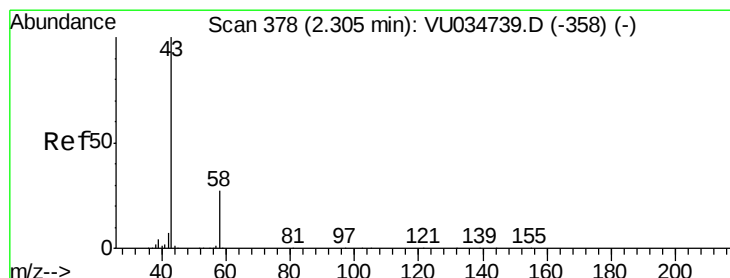
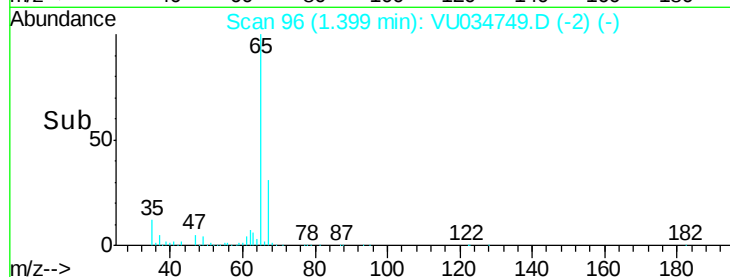
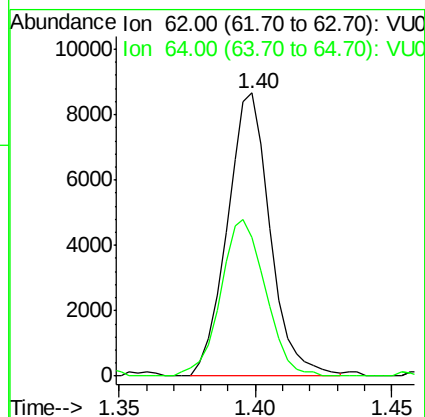
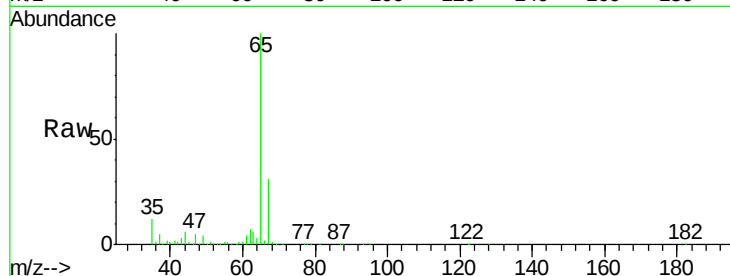
BFDG7

Tot Ion: 62 Resp: 9477

Ion Ratio Lower Upper

62 100

64 48.8 22.2 41.2#



#13

Acetone

Concen: 38.278 ug/L

RT: 2.31 min Scan# 378

Delta R.T. 0.00 min

Lab File: VU034749.D

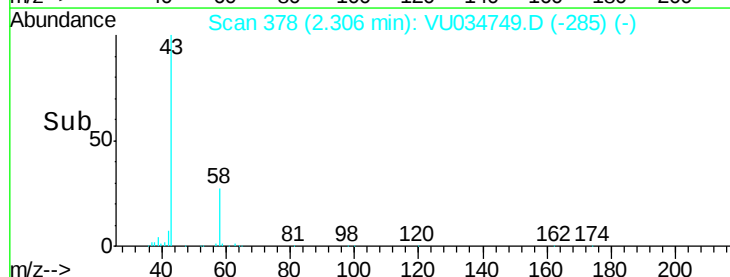
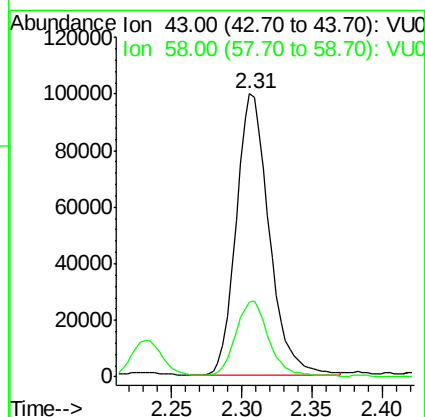
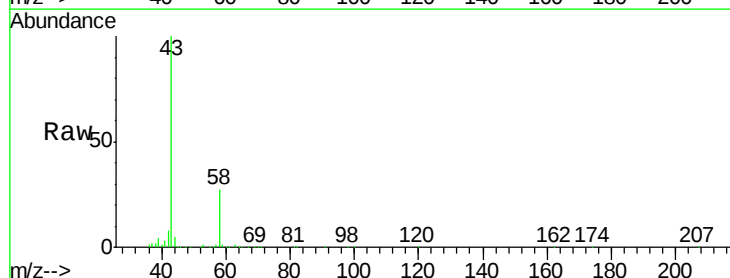
Acq: 23 Sep 2019 21:42

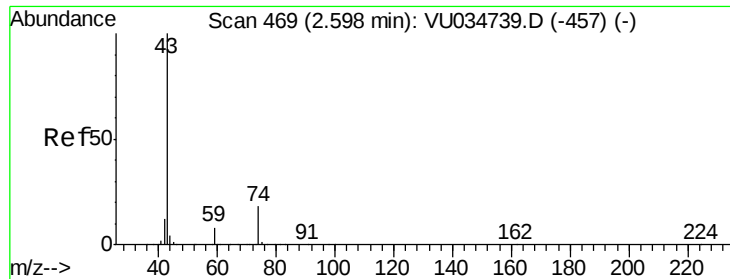
Tgt Ion: 43 Resp: 163109

Ion Ratio Lower Upper

43 100

58 25.7 0.0 53.4

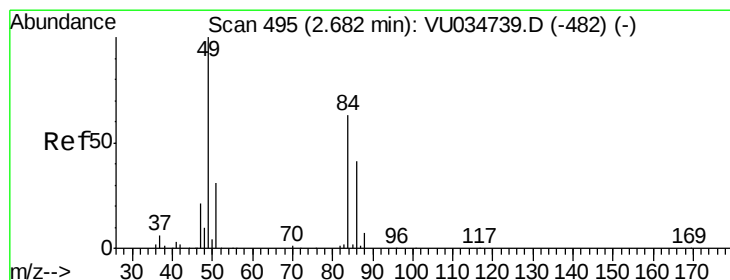
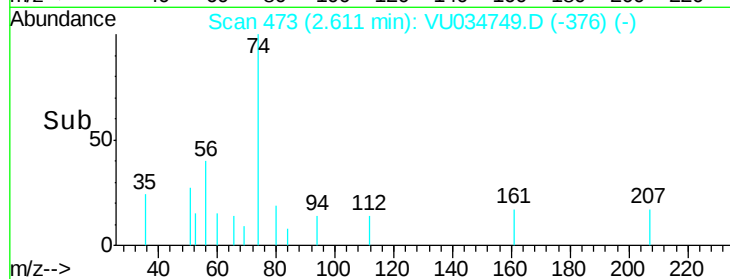
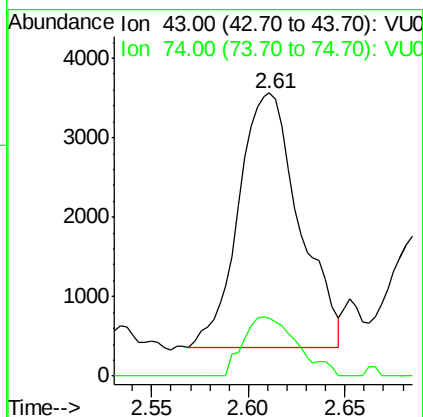
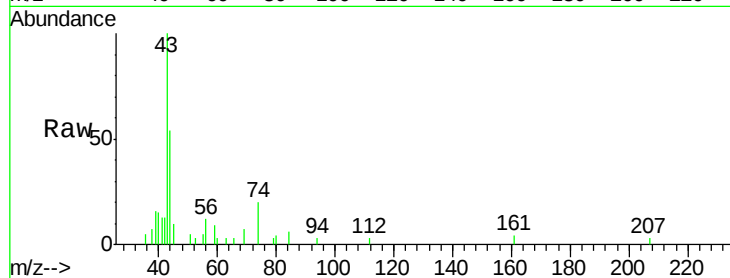




#15
Methyl Acetate
Concen: 1.232 ug/L
RT: 2.61 min Scan# 473
Delta R.T. 0.01 min
Lab File: VU034749.D
Acq: 23 Sep 2019 21:42

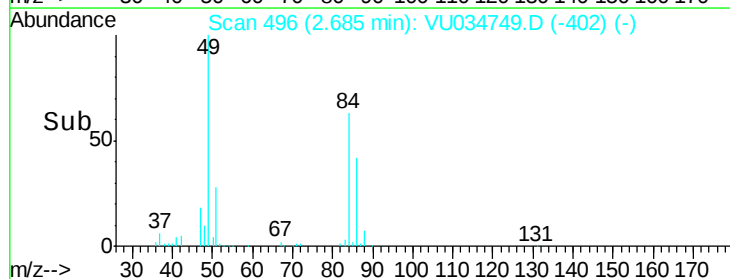
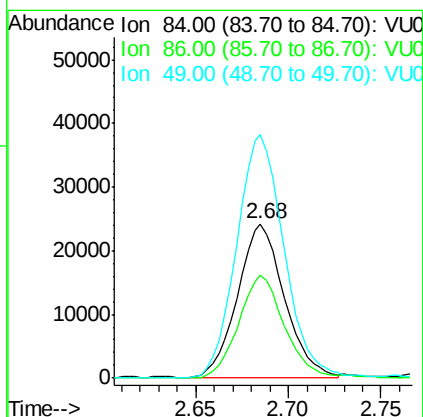
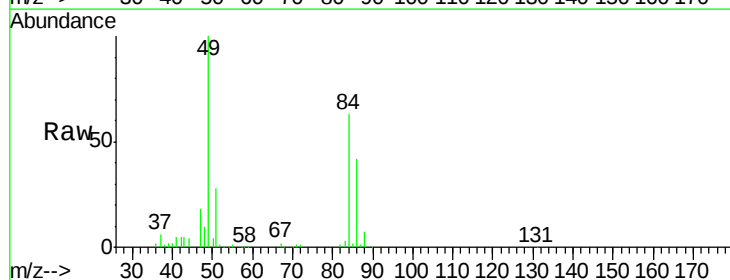
Instrument :
MSVOA_U
ClientSampled :
BFDG7

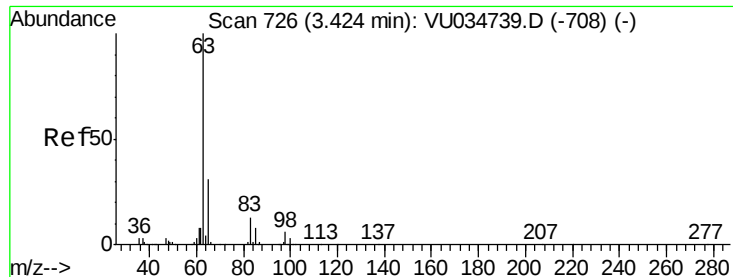
Tot Ion: 43 Resp: 7015
Ion Ratio Lower Upper
43 100
74 19.2 14.4 21.6



#16
Methylene chloride
Concen: 11.055 ug/L
RT: 2.68 min Scan# 496
Delta R.T. 0.00 min
Lab File: VU034749.D
Acq: 23 Sep 2019 21:42

Tgt Ion: 84 Resp: 42773
Ion Ratio Lower Upper
84 100
86 66.3 43.0 80.0
49 157.8 109.7 203.7





#19

1,1-Dichloroethane

Concen: 1.892 ug/L

RT: 3.43 min Scan# 727

Delta R.T. 0.00 min

Lab File: VU034749.D

Acq: 23 Sep 2019 21:42

Instrument :

MSVOA_U

ClientSampleId :

BFDG7

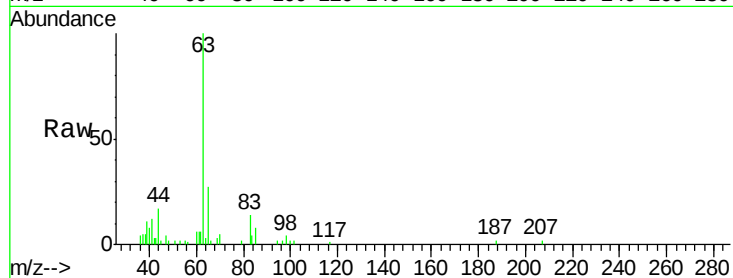
Tot Ion: 63 Resp: 14493

Ion Ratio Lower Upper

63 100

65 26.7 22.0 40.8

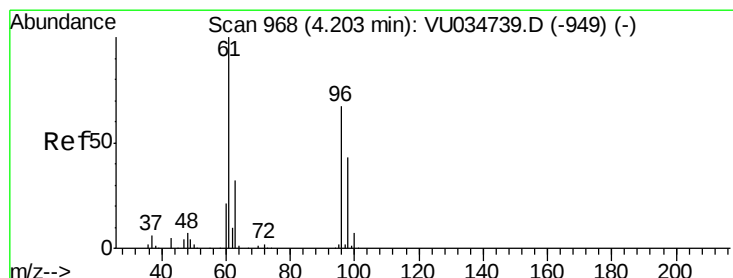
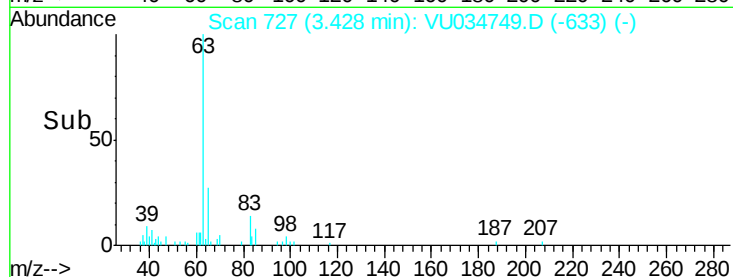
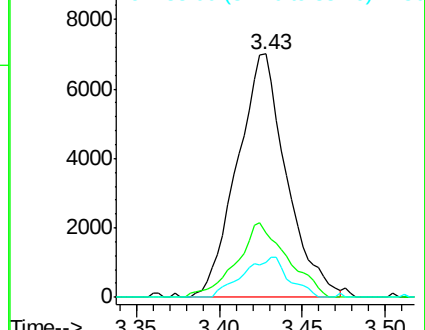
83 14.3 8.9 16.5



Abundance Ion 63.00 (62.70 to 63.70): VU034749.D (-633) (-)

Ion 65.00 (64.70 to 65.70): VU034749.D (-653) (-)

Ion 83.00 (82.70 to 83.70): VU034749.D (-833) (-)



#20

cis-1,2-Dichloroethene

Concen: 9.600 ug/L

RT: 4.20 min Scan# 967

Delta R.T. -0.00 min

Lab File: VU034749.D

Acq: 23 Sep 2019 21:42

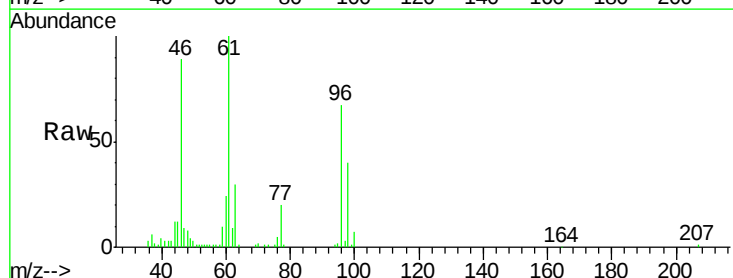
Tgt Ion: 96 Resp: 37487

Ion Ratio Lower Upper

96 100

61 149.5 108.8 202.2

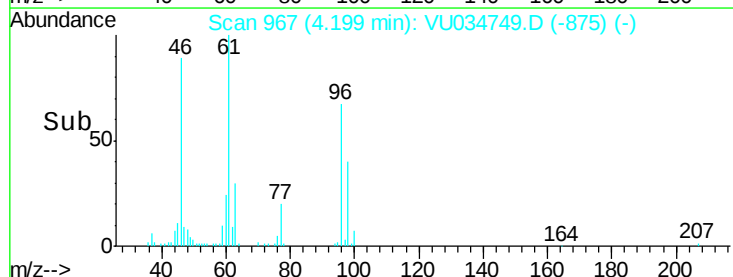
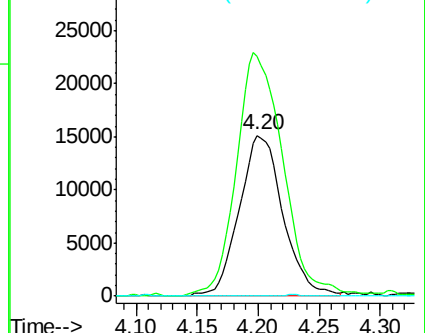
68 0.0 0.0 0.0

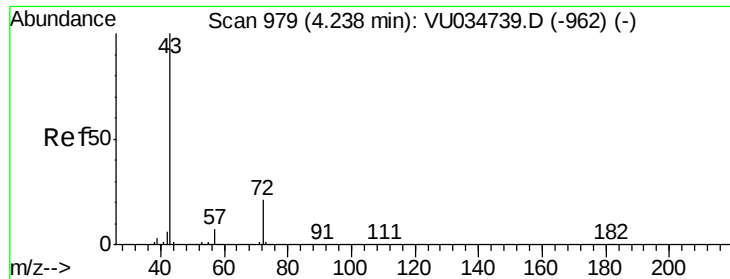


Abundance Ion 96.00 (95.70 to 96.70): VU034749.D (-875) (-)

Ion 61.00 (60.70 to 61.70): VU034749.D (-613) (-)

Ion 68.00 (67.70 to 68.70): VU034749.D (-683) (-)





#22

2-Butanone

Concen: 12.424 ug/L

RT: 4.25 min Scan# 982

Delta R.T. 0.01 min

Lab File: VU034749.D

Acq: 23 Sep 2019 21:42

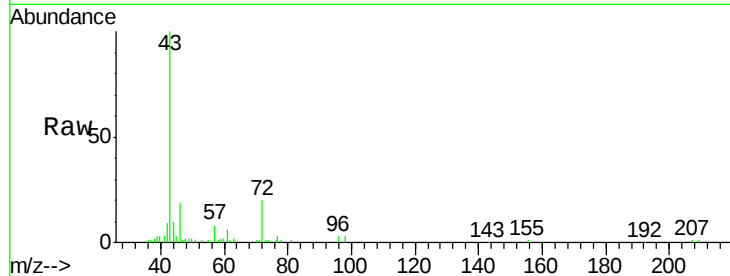
Instrument :
MSVOA_U
ClientSampleId :
BFDG7

Tot Ion: 43 Resp: 62980

Ion Ratio Lower Upper

43 100

72 12.9 10.2 30.6



Abundance Ion 43.00 (42.70 to 43.70): VU034739.D (-962) (-)

Ion 72.00 (71.70 to 72.70): VU034739.D (-962) (-)

4.25

25000

20000

15000

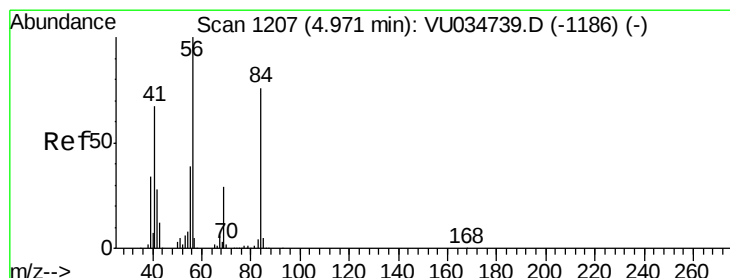
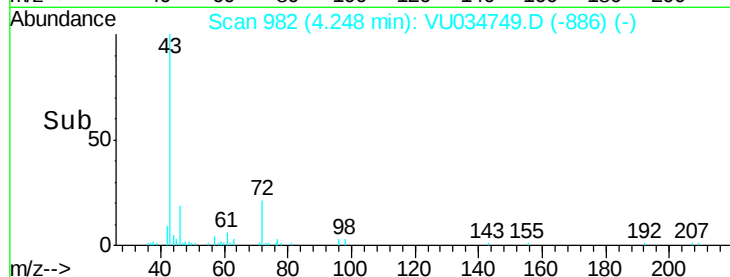
10000

5000

0

Time-->

4.15 4.20 4.25 4.30 4.35



#29

Cyclohexane

Concen: 1.327 ug/L

RT: 4.97 min Scan# 1207

Delta R.T. 0.00 min

Lab File: VU034749.D

Acq: 23 Sep 2019 21:42

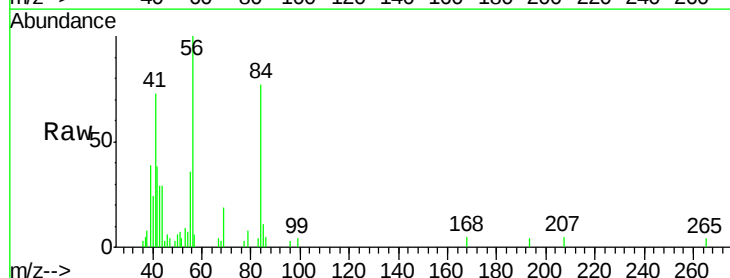
Tgt Ion: 56 Resp: 9718

Ion Ratio Lower Upper

56 100

69 14.0 21.7 32.5#

84 27.5 58.8 88.2#



Abundance Ion 56.00 (55.70 to 56.70): VU034739.D (-1186) (-)

Ion 69.00 (68.70 to 69.70): VU034739.D (-1186) (-)

Ion 84.00 (83.70 to 84.70): VU034739.D (-1186) (-)

4.97

5000

4000

3000

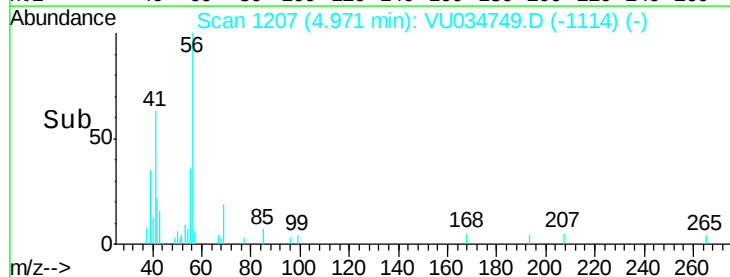
2000

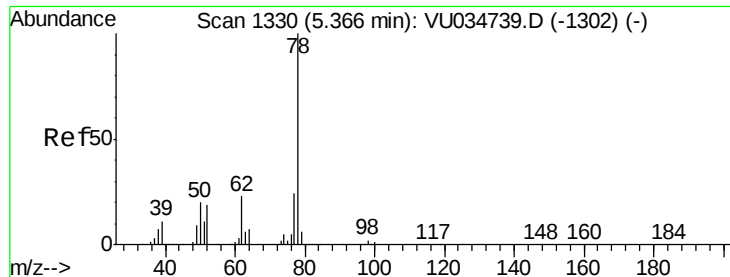
1000

0

Time-->

4.90 4.95 5.00





#33

Benzene

Concen: 12.641 ug/L

RT: 5.37 min Scan# 1330

Delta R.T. 0.00 min

Lab File: VU034749.D

Acq: 23 Sep 2019 21:42

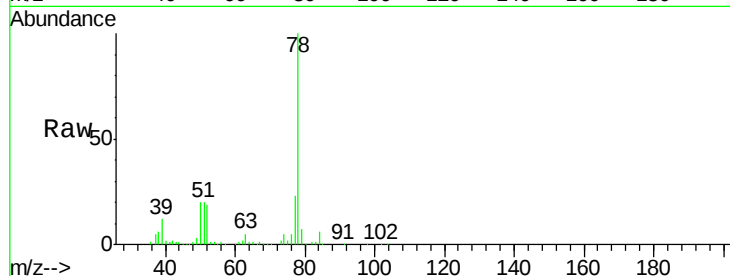
Instrument :

MSVOA_U

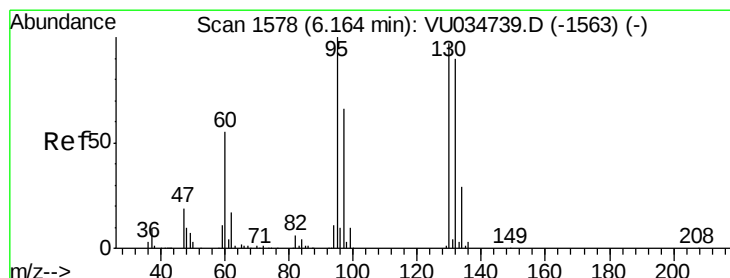
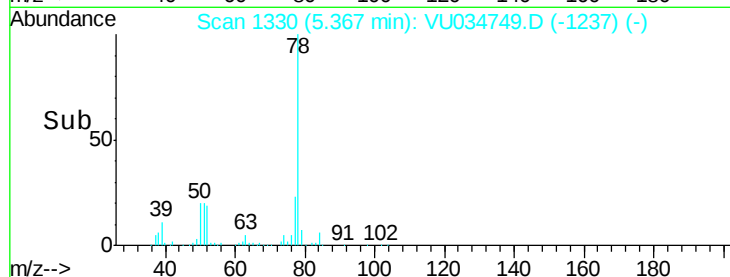
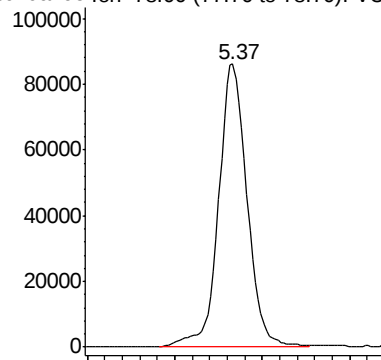
ClientSampleId :

BFDG7

Tgt Ion: 78 Resp: 194491



Abundance Ion 78.00 (77.70 to 78.70): VU0



#34

Trichloroethene

Concen: 8.596 ug/L

RT: 6.16 min Scan# 1578

Delta R.T. 0.00 min

Lab File: VU034749.D

Acq: 23 Sep 2019 21:42

Tgt Ion: 95 Resp: 32665

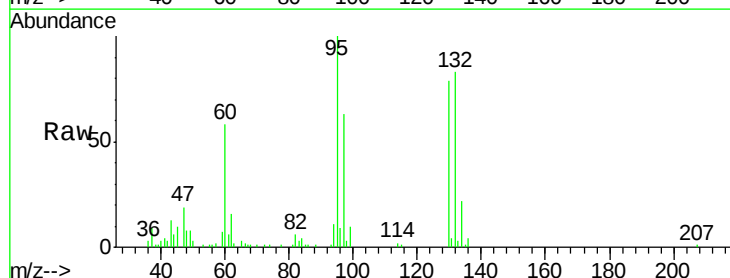
Ion	Ratio	Lower	Upper
95	100		
97	63.1	43.7	81.1
132	83.0	61.0	113.2
130	79.4	65.7	121.9

95 100

97 63.1 43.7 81.1

132 83.0 61.0 113.2

130 79.4 65.7 121.9

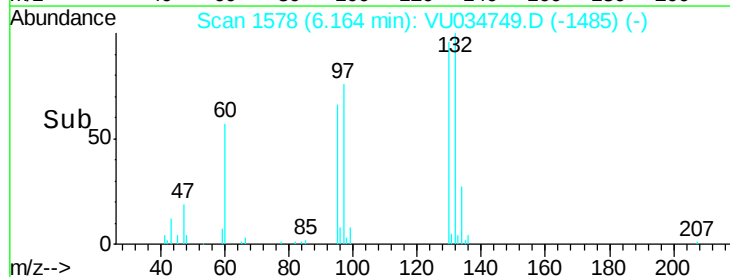
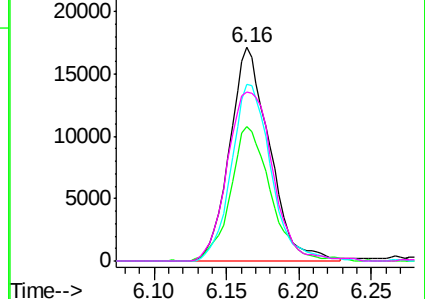


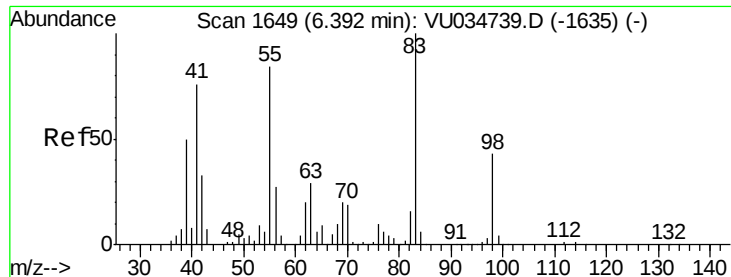
Abundance Ion 95.00 (94.70 to 95.70): VU0

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

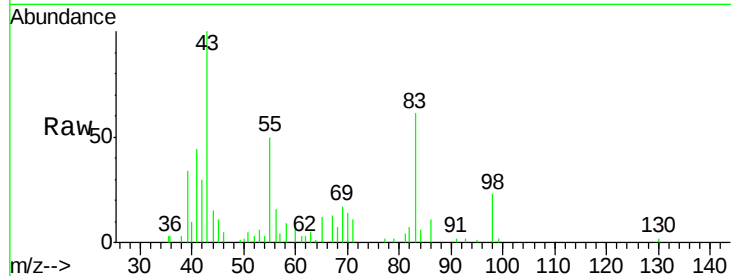




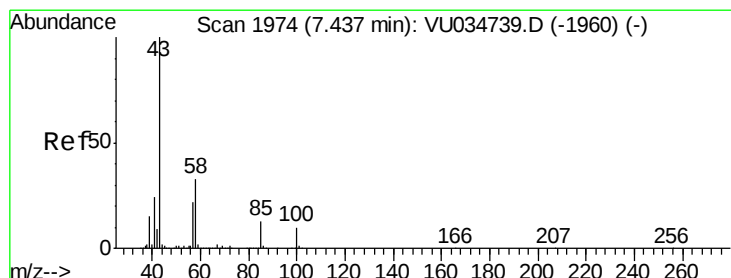
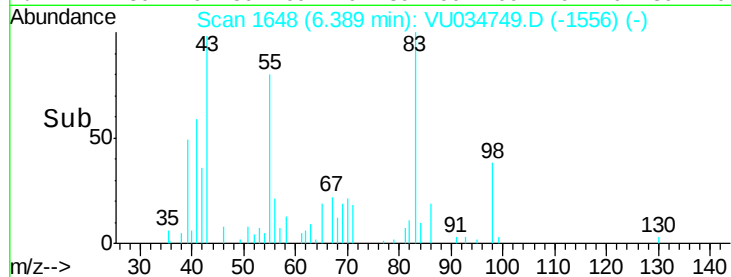
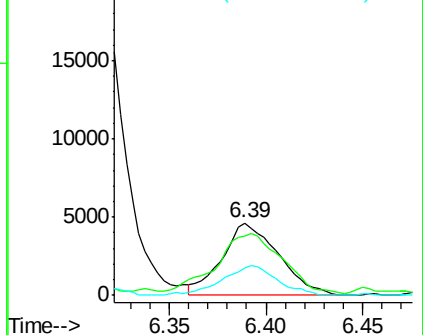
#35
Methylcyclohexane
Concen: 1.456 ug/L
RT: 6.39 min Scan# 1648
Delta R.T. -0.00 min
Lab File: VU034749.D
Acq: 23 Sep 2019 21:42

Instrument :
MSVOA_U
ClientSampled :
BFDG7

Tot Ion: 83 Resp: 9391
Ion Ratio Lower Upper
83 100
55 97.3 71.6 107.4
98 38.8 35.7 53.5

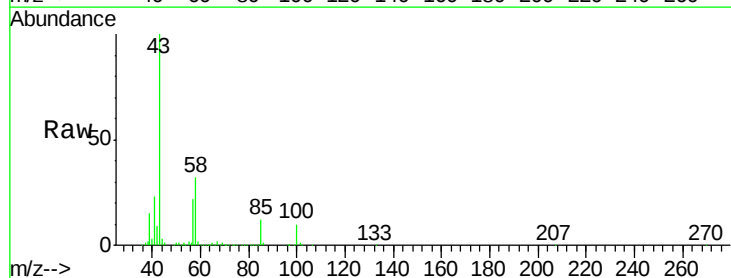


Abundance Ion 83.00 (82.70 to 83.70): VU0
Ion 55.00 (54.70 to 55.70): VU0
Ion 98.00 (97.70 to 98.70): VU0

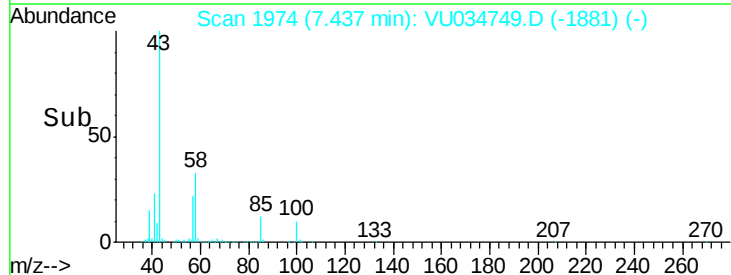
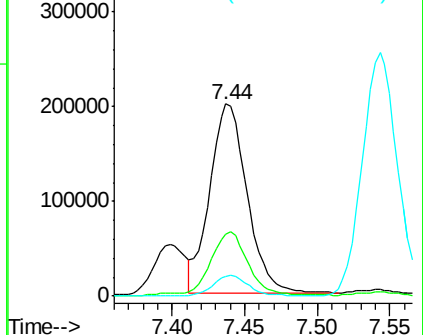


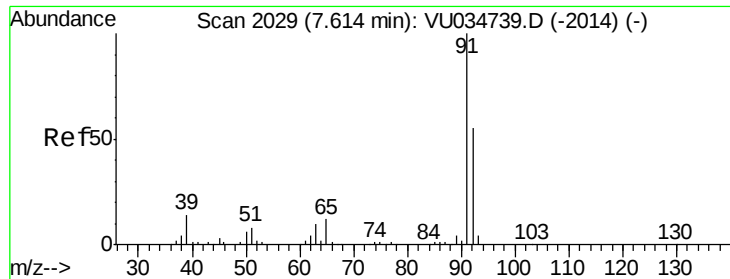
#40
4-Methyl-2-pentanone
Concen: 41.017 ug/L
RT: 7.44 min Scan# 1974
Delta R.T. 0.00 min
Lab File: VU034749.D
Acq: 23 Sep 2019 21:42

Tgt Ion: 43 Resp: 358758
Ion Ratio Lower Upper
43 100
58 32.5 25.2 37.8
100 10.3 7.7 11.5



Abundance Ion 43.00 (42.70 to 43.70): VU0
Ion 58.00 (57.70 to 58.70): VU0
Ion 100.00 (99.70 to 100.70): VU0





#42

Toluene

Concen: 85.572 ug/L

RT: 7.61 min Scan# 2029

Delta R.T. 0.00 min

Lab File: VU034749.D

Acq: 23 Sep 2019 21:42

Instrument :

MSVOA_U

ClientSampleId :

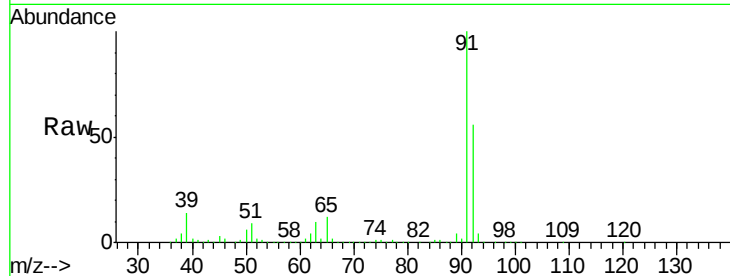
BFDG7

Tot Ion: 91 Resp: 1422900

Ion Ratio Lower Upper

91 100

92 55.8 38.2 71.0



Abundance Ion 91.00 (90.70 to 91.70): VU0

Ion 92.00 (91.70 to 92.70): VU0

7.61

800000

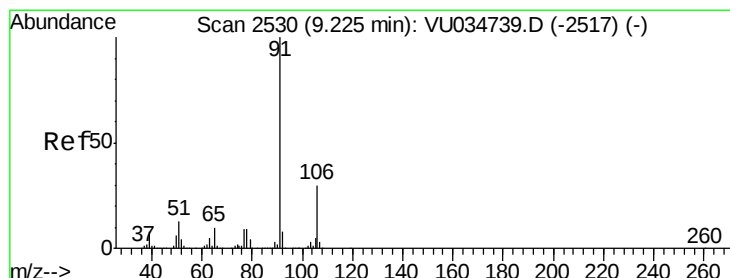
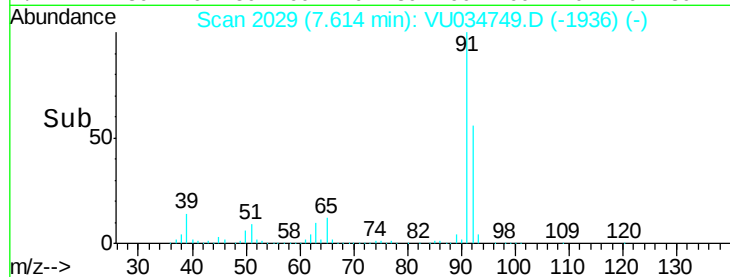
600000

400000

200000

0

Time--> 7.50 7.55 7.60 7.65 7.70



#52

Ethylbenzene

Concen: 19.828 ug/L

RT: 9.23 min Scan# 2531

Delta R.T. 0.00 min

Lab File: VU034749.D

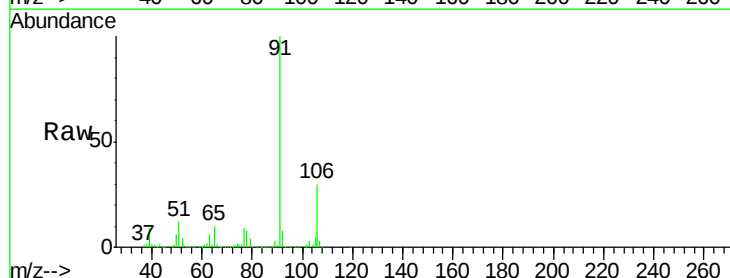
Acq: 23 Sep 2019 21:42

Tgt Ion: 91 Resp: 371280

Ion Ratio Lower Upper

91 100

106 30.3 20.6 38.4



Abundance Ion 91.00 (90.70 to 91.70): VU0

Ion 106.00 (105.70 to 106.70): V

9.23

250000

200000

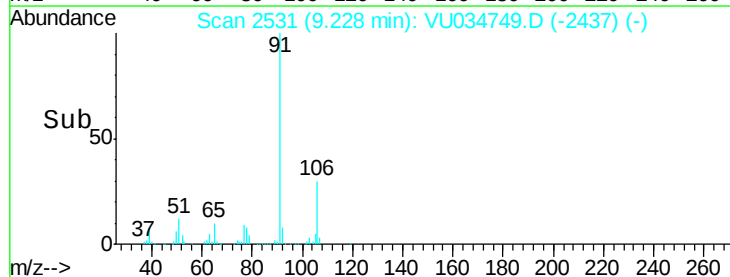
150000

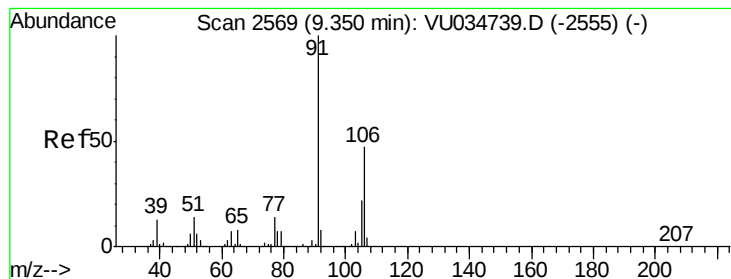
100000

50000

0

Time--> 9.15 9.20 9.25 9.30





#53

m,p-Xylene

Concen: 77.788 ug/L

RT: 9.35 min Scan# 2569

Delta R.T. 0.00 min

Lab File: VU034749.D

Acq: 23 Sep 2019 21:42

Instrument :

MSVOA_U

ClientSampleId :

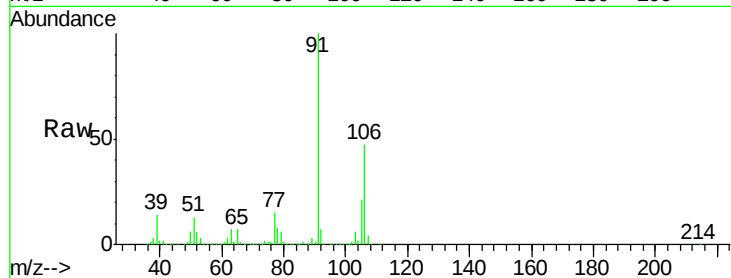
BFDG7

Tot Ion:106 Resp: 515905

Ion Ratio Lower Upper

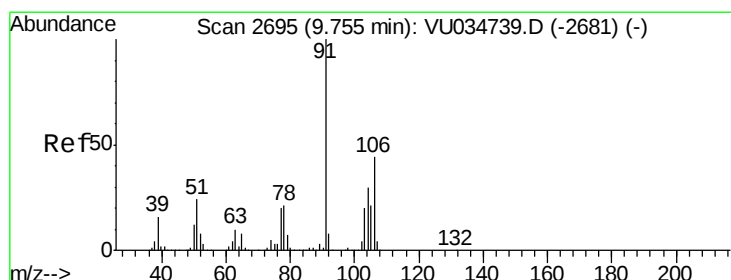
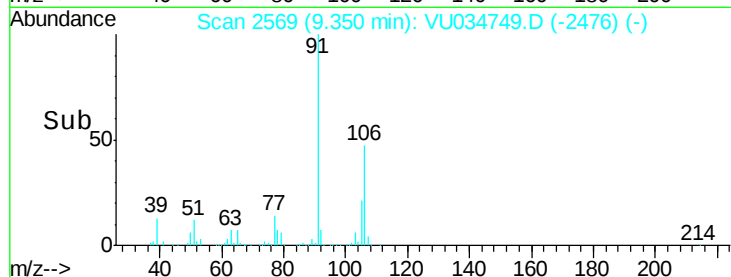
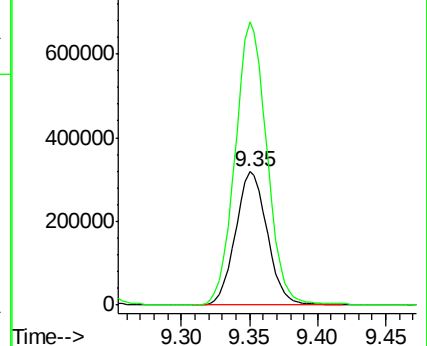
106 100

91 212.0 146.9 272.7



Abundance Ion 106.00 (105.70 to 106.70): V

Ion 91.00 (90.70 to 91.70): VU0



#54

o-xylene

Concen: 51.368 ug/L

RT: 9.76 min Scan# 2695

Delta R.T. 0.00 min

Lab File: VU034749.D

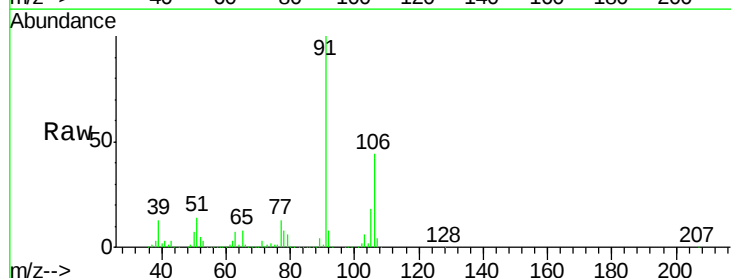
Acq: 23 Sep 2019 21:42

Tgt Ion:106 Resp: 336965

Ion Ratio Lower Upper

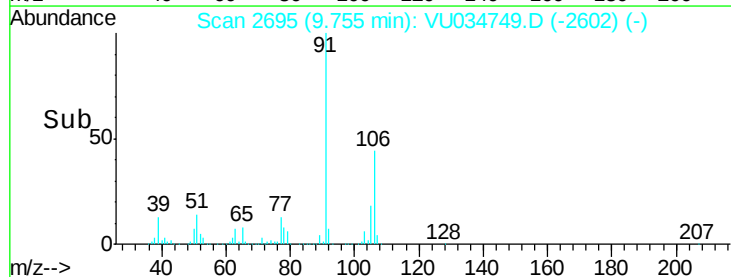
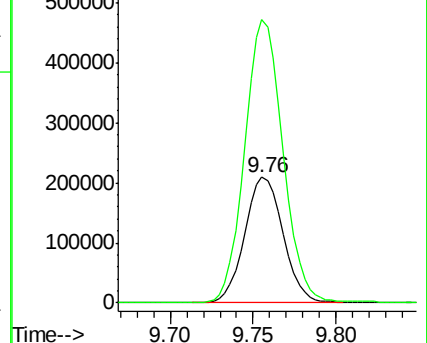
106 100

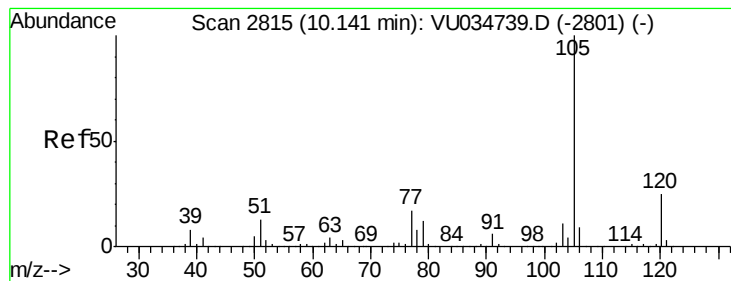
91 225.5 155.6 289.0



Abundance Ion 106.00 (105.70 to 106.70): V

Ion 91.00 (90.70 to 91.70): VU0





#56

Isopropylbenzene

Concen: 2.032 ug/L

RT: 10.14 min Scan# 2816

Delta R.T. 0.00 min

Lab File: VU034749.D

Acq: 23 Sep 2019 21:42

Instrument :

MSVOA_U

ClientSampleId :

BFDG7

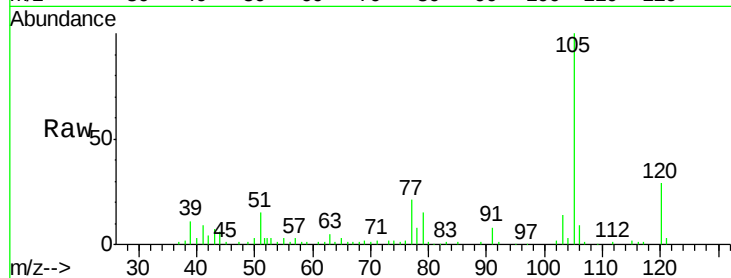
Tot Ion:105 Resp: 35940

Ion Ratio Lower Upper

105 100

120 26.9 20.4 30.6

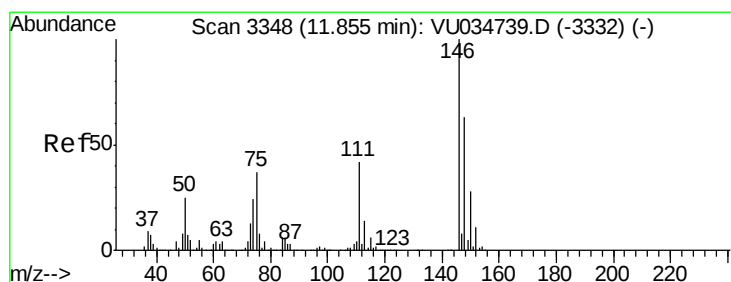
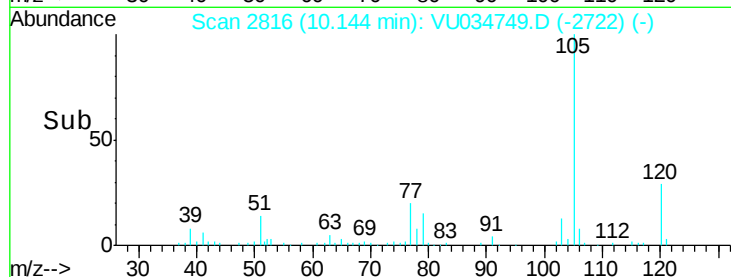
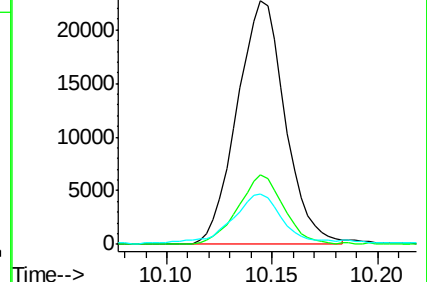
77 20.2 14.2 21.4



Abundance Ion 105.00 (104.70 to 105.70): V

Ion 120.00 (119.70 to 120.70): V

Ion 77.00 (76.70 to 77.70): V



#65

1,2-Dichlorobenzene

Concen: 6.239 ug/L

RT: 11.86 min Scan# 3348

Delta R.T. 0.00 min

Lab File: VU034749.D

Acq: 23 Sep 2019 21:42

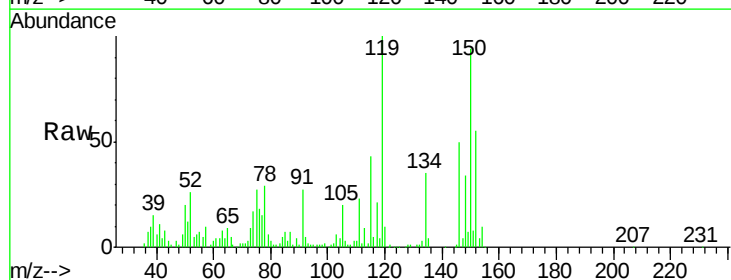
Tgt Ion:146 Resp: 47078

Ion Ratio Lower Upper

146 100

111 46.2 35.2 52.8

148 68.0 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

