

Data Path : Z:\VOASRV\HPCHEM1\MSVOA U\DATA\U100120\
 Data File : VU040438.D
 Acq On : 01 Oct 2020 22:37
 Operator : SY/MD
 Sample : L4240-08
 Misc : 25.0mL/MSVOA U/WATER
 ALS Vial : 30 Sample Multiplier: 1

Instrument :
 MSVOA_U
 ClientSampleId :
 BG3S5

Quant Time: Oct 02 06:08:39 2020
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_U\METHOD\SOMUTR092920WMA.M
 Quant Title : TRACE VOA SOM01.0
 QLast Update : Fri Oct 02 05:20:15 2020
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Difluorobenzene	6.26	114	148007	5.00	ug/L	0.00
28) Chlorobenzene-d5	9.42	117	132798	5.00	ug/L	0.00
60) 1,4-Dichlorobenzene-d4	11.81	152	65423	5.00	ug/L	0.00

System Monitoring Compounds

4) Vinyl Chloride-d3	1.60	65	27410	3.74	ug/L	0.00
Spiked Amount	5.000	Range	40 - 130	Recovery	=	74.80%
7) Chloroethane-d5	1.92	69	27460	4.28	ug/L	0.00
Spiked Amount	5.000	Range	65 - 130	Recovery	=	85.60%
11) 1,1-Dichloroethene-d2	2.58	63	45597	2.59	ug/L	0.00
Spiked Amount	5.000	Range	60 - 125	Recovery	=	51.80%#
20) 2-Butanone-d5	4.65	46	178169	48.95	ug/L	0.00
Spiked Amount	50.000	Range	40 - 130	Recovery	=	97.90%
24) Chloroform-d	5.08	84	76753	4.40	ug/L	0.00
Spiked Amount	5.000	Range	70 - 125	Recovery	=	88.00%
26) 1,2-Dichloroethane-d4	5.72	65	49707	4.68	ug/L	0.00
Spiked Amount	5.000	Range	70 - 130	Recovery	=	93.60%
32) Benzene-d6	5.75	84	139196	5.21	ug/L	0.00
Spiked Amount	5.000	Range	70 - 125	Recovery	=	104.20%
36) 1,2-Dichloropropane-d6	6.70	67	52025	5.33	ug/L	0.00
Spiked Amount	5.000	Range	60 - 140	Recovery	=	106.60%
41) Toluene-d8	7.91	98	113193	4.88	ug/L	0.00
Spiked Amount	5.000	Range	70 - 130	Recovery	=	97.60%
43) trans-1,3-Dichloropropene-	8.19	79	19602	4.92	ug/L	0.00
Spiked Amount	5.000	Range	55 - 130	Recovery	=	98.40%
46) 2-Hexanone-d5	8.64	63	141079	60.18	ug/L	0.00
Spiked Amount	50.000	Range	45 - 130	Recovery	=	120.36%
57) 1,1,2,2-Tetrachloroethane-	10.75	84	50970	5.37	ug/L	0.00
Spiked Amount	5.000	Range	65 - 120	Recovery	=	107.40%
64) 1,2-Dichlorobenzene-d4	12.19	152	52446	5.29	ug/L	0.00
Spiked Amount	5.000	Range	80 - 120	Recovery	=	105.80%

Target Compounds

Target Compounds	R.T.	QIon	Response	Conc	Units	Ovalue
8) Chloroethane	1.94	64	35832	4.226	ug/L #	70
14) Carbon disulfide	2.80	76	8789	0.247	ug/L #	93
19) 1,1-Dichloroethane	3.89	63	52694	2.203	ug/L	94
22) cis-1,2-Dichloroethene	4.69	96	11529	0.894	ug/L #	93
29) 1,1,1-Trichloroethane	5.34	97	72935	4.020	ug/L	99
30) Cyclohexane	5.41	56	1986503	105.852	ug/L	98
33) Benzene	5.79	78	2686	0.060	ug/L	100
35) Methylcyclohexane	6.78	83	44554	2.570	ug/L	91
42) Toluene	7.98	91	502883	11.015	ug/L	99
48) 2-Hexanone	8.69	43	18825	2.631	ug/L	98
51) Chlorobenzene	9.45	112	62887	2.130	ug/L	100
52) Ethylbenzene	9.57	91	81588	1.647	ug/L	98
53) m,p-Xylene	9.69	106	86380	4.680	ug/L	97
54) o-Xylene	10.10	106	27092	1.560	ug/L	98
56) Isopropylbenzene	10.48	105	202820	4.329	ug/L	100
62) 1,3-Dichlorobenzene	11.74	146	8035	0.371	ug/L	99
63) 1,4-Dichlorobenzene	11.83	146	26523	1.177	ug/L	99

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Quant Time: Oct 02 06:08:39 2020
Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_U\METHOD\SOMUTR092920WMA.M
Quant Title : TRACE VOA SOM01.0
QLast Update : Fri Oct 02 05:20:15 2020
Response via : Initial Calibration

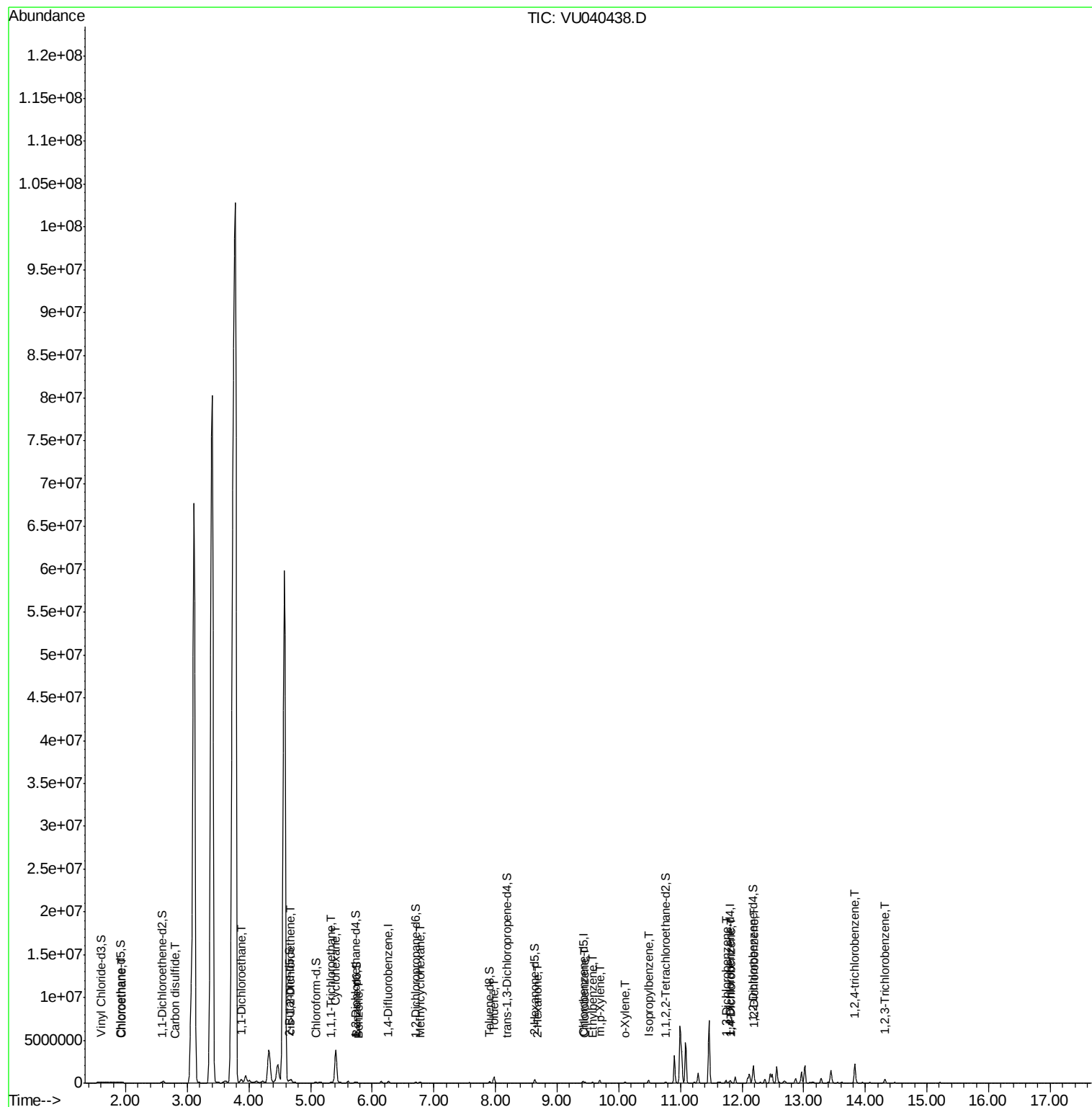
Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
65) 1,2-Dichlorobenzene	12.20	146	9196	0.437	ug/L	97
68) 1,2,4-trichlorobenzene	13.83	180	575547	46.322	ug/L	99
70) 1,2,3-Trichlorobenzene	14.32	180	124467	10.948	ug/L	100

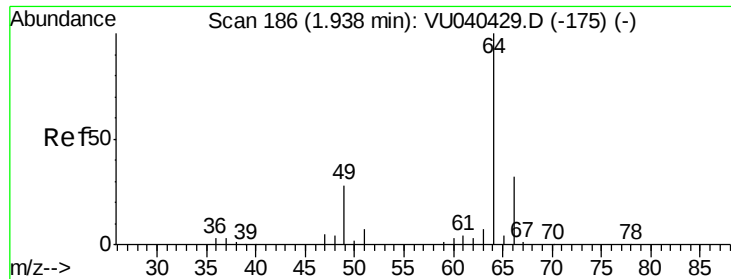
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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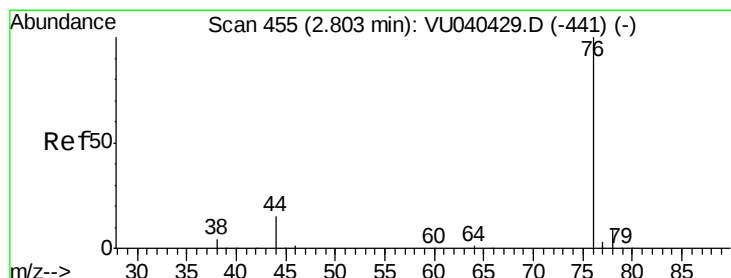
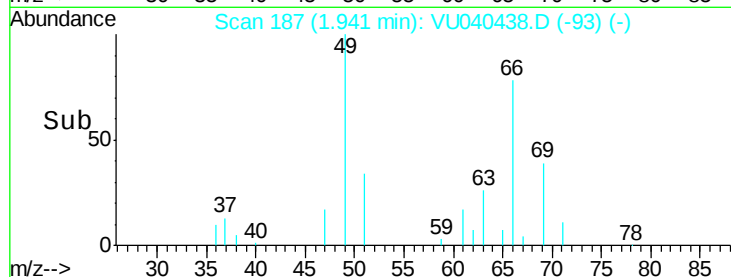
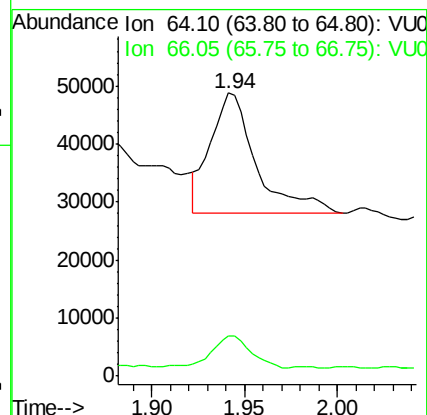
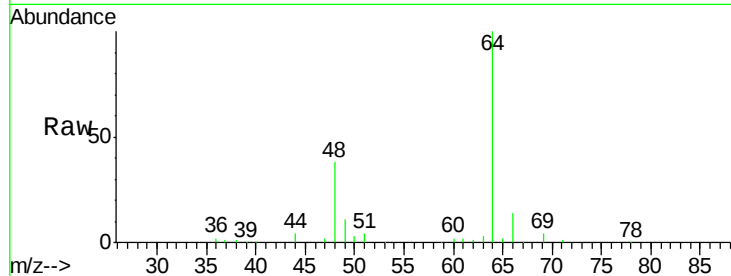




#8
Chloroethane
Concen: 4.226 ug/L
RT: 1.94 min Scan# 187
Delta R.T. 0.00 min
Lab File: VU040438.D
Acq: 01 Oct 2020 22:37

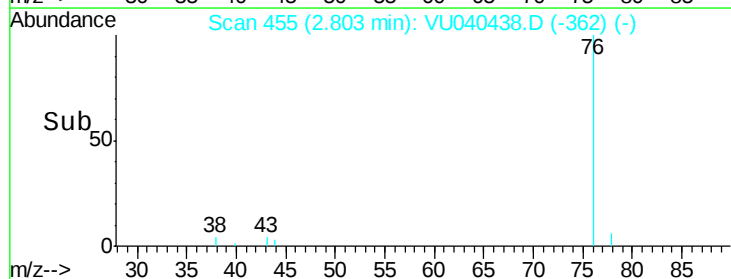
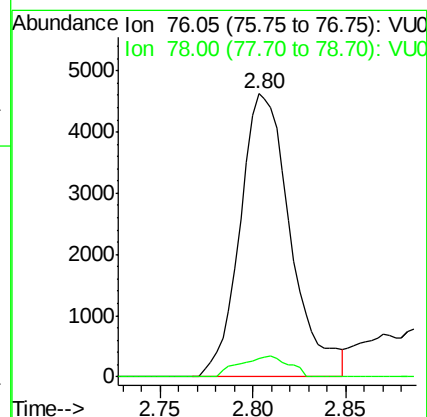
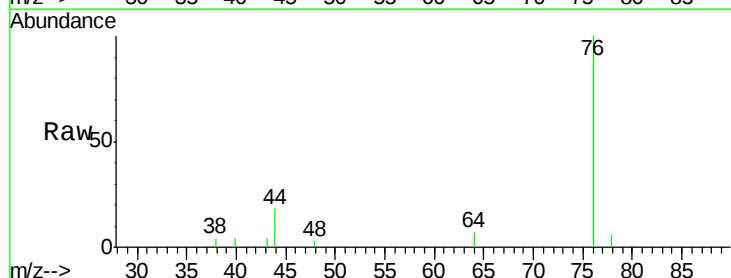
Instrument :
MSVOA_U
ClientSampleId :
BG3S5

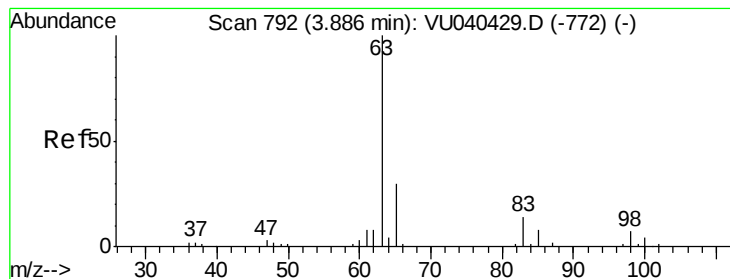
Tot Ion: 64 Resp: 35832
Ion Ratio Lower Upper
64 100
66 14.0 21.3 39.6#



#14
Carbon disulfide
Concen: 0.247 ug/L
RT: 2.80 min Scan# 455
Delta R.T. 0.00 min
Lab File: VU040438.D
Acq: 01 Oct 2020 22:37

Tgt Ion: 76 Resp: 8789
Ion Ratio Lower Upper
76 100
78 6.4 7.2 10.8#





#19

1,1-Dichloroethane

Concen: 2.203 ug/L

RT: 3.89 min Scan# 794

Delta R.T. 0.01 min

Lab File: VU040438.D

Acq: 01 Oct 2020 22:37

Instrument :

MSVOA_U

ClientSampleId :

BG3S5

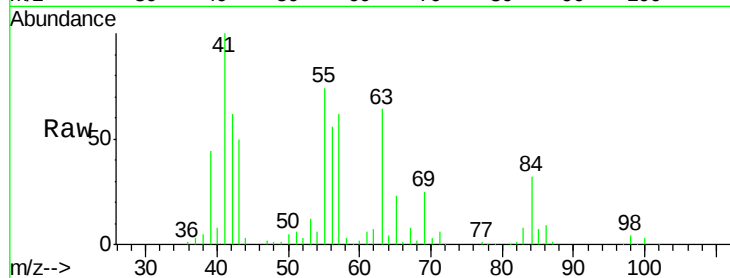
Tot Ion: 63 Resp: 52694

Ion Ratio Lower Upper

63 100

65 35.1 21.7 40.3

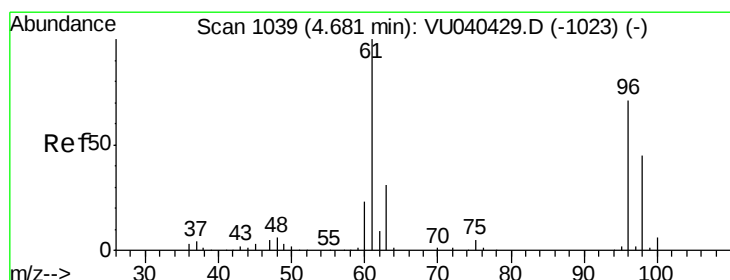
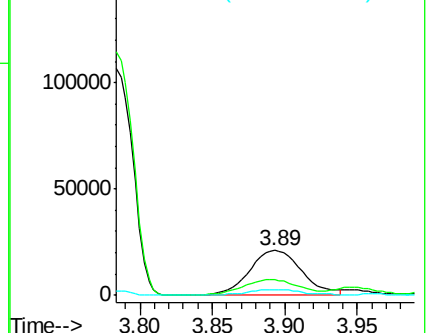
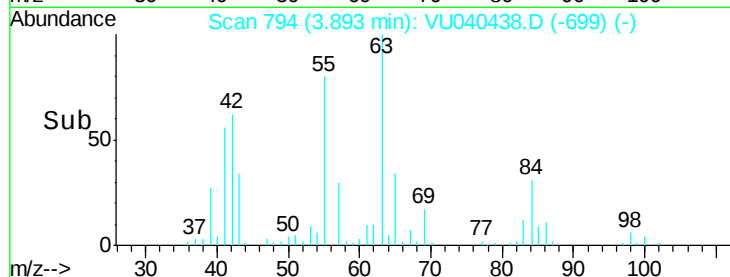
83 12.0 9.1 16.9



Abundance Ion 63.10 (62.80 to 63.80): VU040438.D (-699) (-)

Ion 65.10 (64.80 to 65.80): VU040438.D (-699) (-)

Ion 83.05 (82.75 to 83.75): VU040438.D (-699) (-)



#22

cis-1,2-Dichloroethene

Concen: 0.894 ug/L

RT: 4.69 min Scan# 1041

Delta R.T. 0.01 min

Lab File: VU040438.D

Acq: 01 Oct 2020 22:37

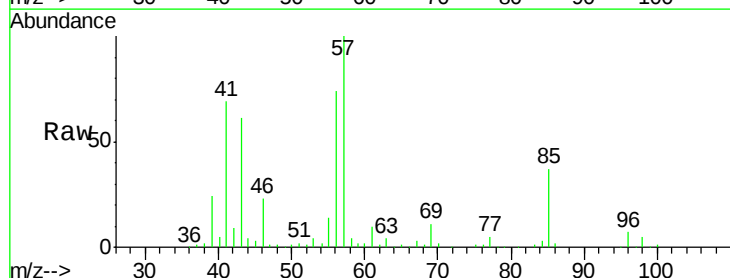
Tgt Ion: 96 Resp: 11529

Ion Ratio Lower Upper

96 100

61 133.3 99.3 184.5

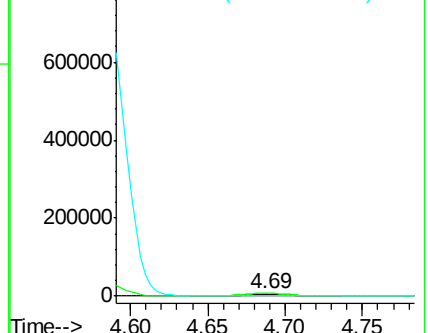
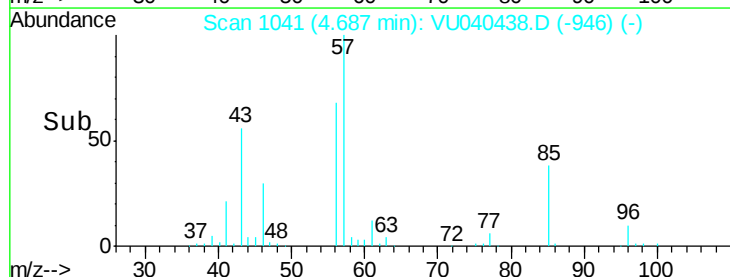
68 11.4 0.0 0.0#

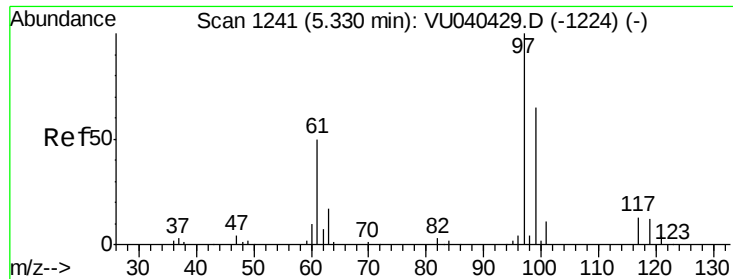


Abundance Ion 96.00 (95.70 to 96.70): VU040438.D (-946) (-)

Ion 61.05 (60.75 to 61.75): VU040438.D (-946) (-)

Ion 68.15 (67.85 to 68.85): VU040438.D (-946) (-)

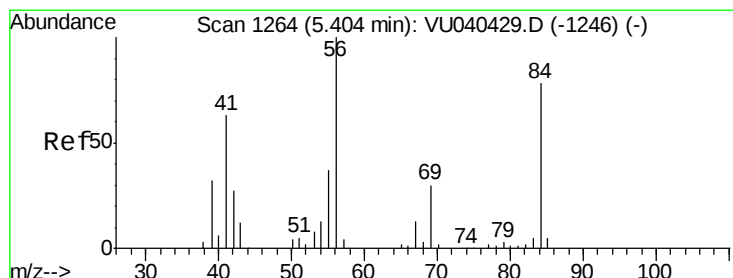
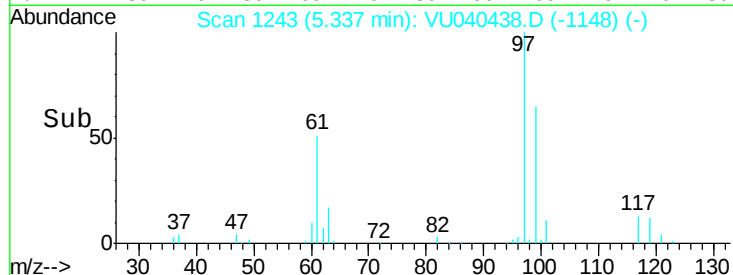
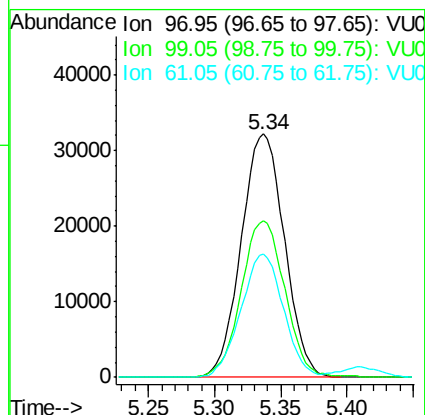
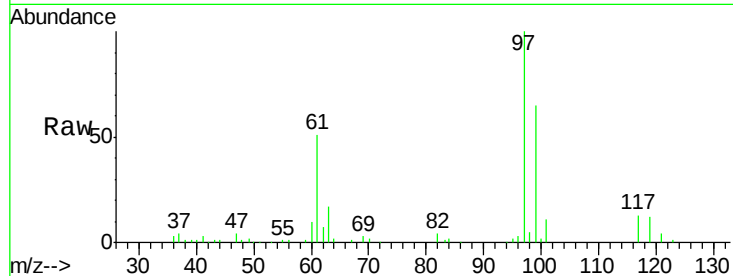




#29
 1,1,1-Trichloroethane
 Concen: 4.020 ug/L
 RT: 5.34 min Scan# 1243
 Delta R.T. 0.01 min
 Lab File: VU040438.D
 Acq: 01 Oct 2020 22:37

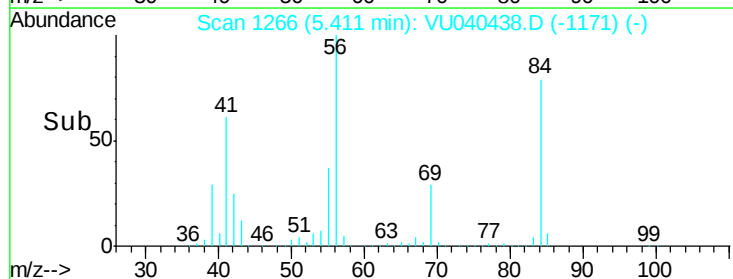
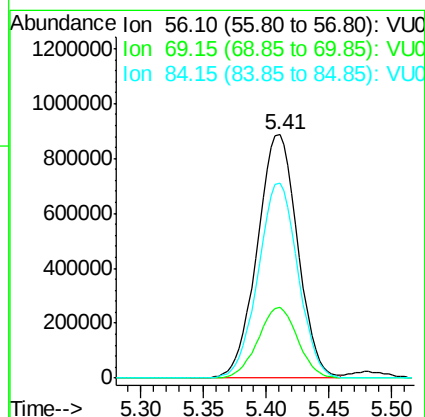
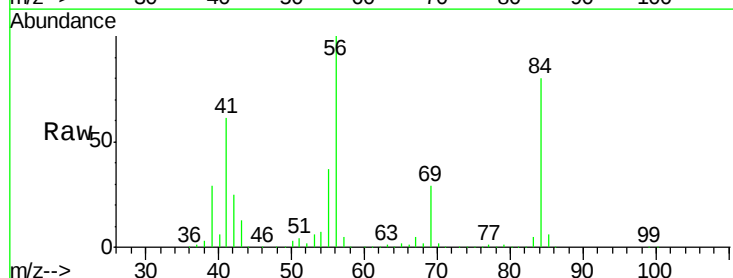
Instrument :
 MSVOA_U
 ClientSampleId :
 BG3S5

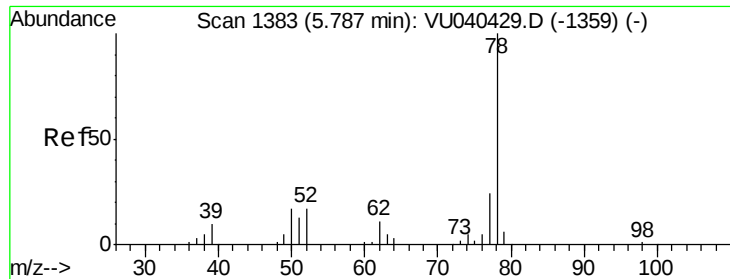
Tot Ion: 97 Resp: 72935
 Ion Ratio Lower Upper
 97 100
 99 65.0 50.7 76.1
 61 50.0 39.7 59.5



#30
 Cyclohexane
 Concen: 105.852 ug/L
 RT: 5.41 min Scan# 1266
 Delta R.T. 0.01 min
 Lab File: VU040438.D
 Acq: 01 Oct 2020 22:37

Tgt Ion: 56 Resp: 1986503
 Ion Ratio Lower Upper
 56 100
 69 28.6 23.3 34.9
 84 78.7 64.2 96.4

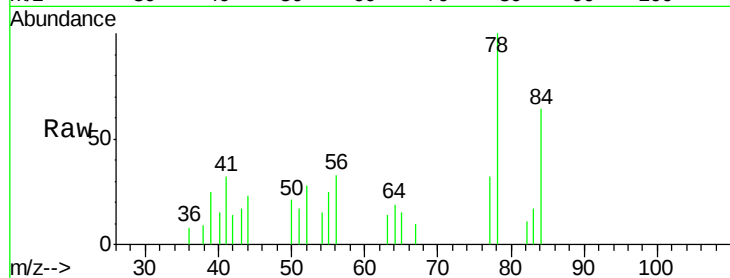




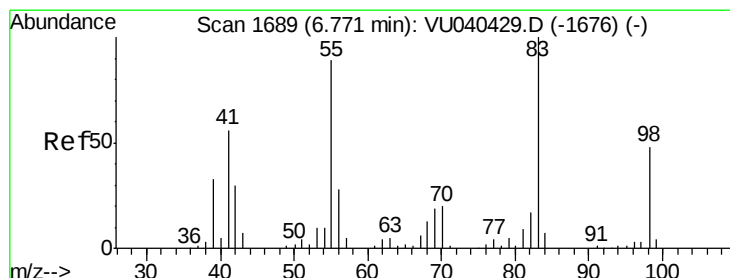
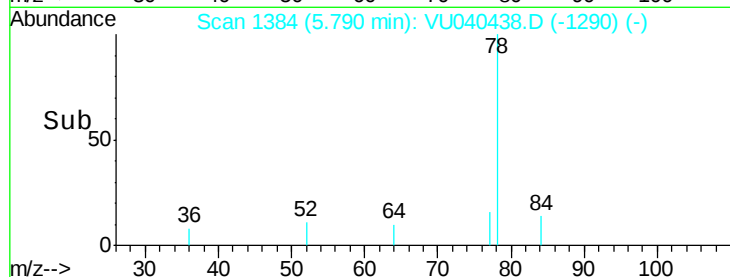
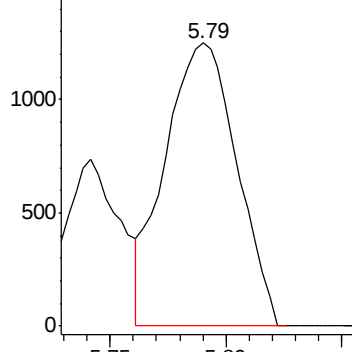
#33
Benzene
Concen: 0.060 ug/L
RT: 5.79 min Scan# 1384
Delta R.T. 0.00 min
Lab File: VU040438.D
Acq: 01 Oct 2020 22:37

Instrument :
MSVOA_U
ClientSampled :
BG3S5

Tgt Ion: 78 Resp: 2686

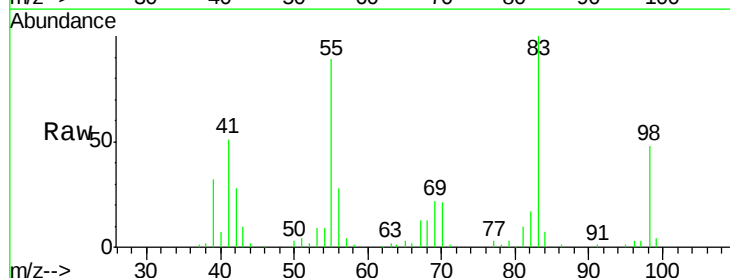


Abundance Ion 78.10 (77.80 to 78.80): VU0



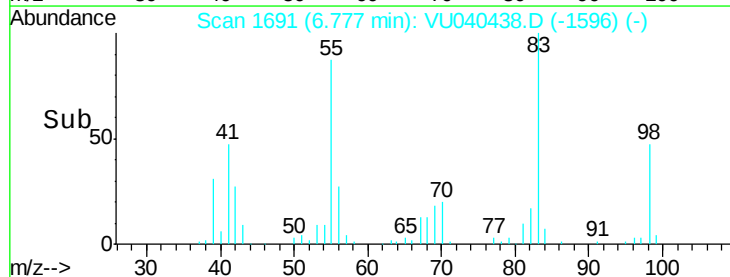
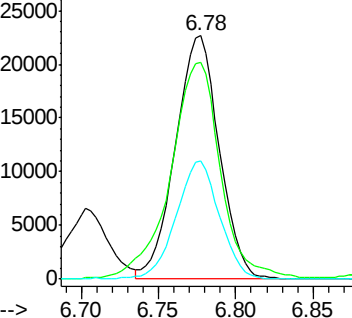
#35
Methylcyclohexane
Concen: 2.570 ug/L
RT: 6.78 min Scan# 1691
Delta R.T. 0.01 min
Lab File: VU040438.D
Acq: 01 Oct 2020 22:37

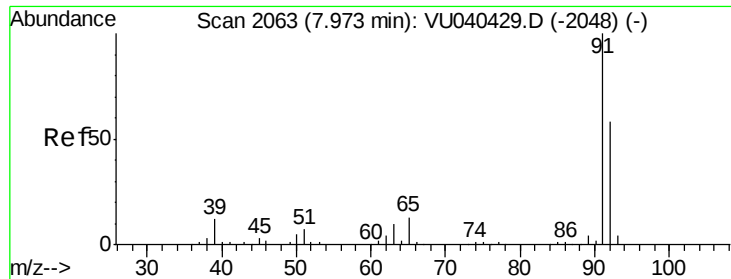
Tgt Ion: 83 Resp: 44554
Ion Ratio Lower Upper
83 100
55 102.0 71.4 107.2
98 47.7 38.5 57.7



Abundance Ion 83.15 (82.85 to 83.85): VU0

Ion 55.10 (54.80 to 55.80): VU0
Ion 98.15 (97.85 to 98.85): VU0





#42

Toluene

Concen: 11.015 ug/L

RT: 7.98 min Scan# 2064

Delta R.T. 0.00 min

Lab File: VU040438.D

Acq: 01 Oct 2020 22:37

Instrument :

MSVOA_U

ClientSampleId :

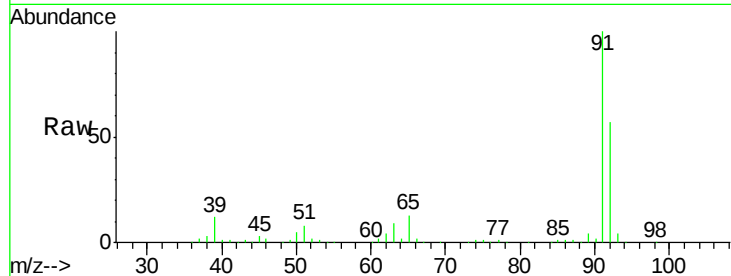
BG3S5

Tot Ion: 91 Resp: 502883

Ion Ratio Lower Upper

91 100

92 56.5 40.0 74.4



Abundance Ion 91.15 (90.85 to 91.85): VU040438.D (-2193) (-)

Ion 92.15 (91.85 to 92.85): VU040438.D (-2193) (-)

7.98

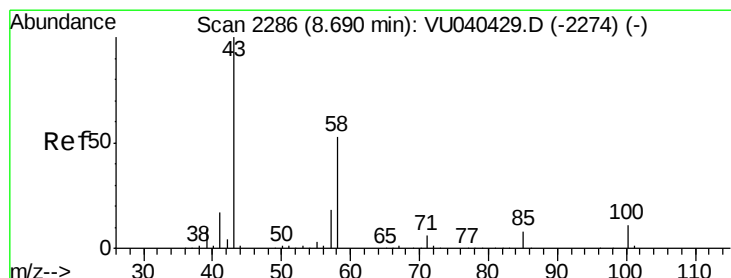
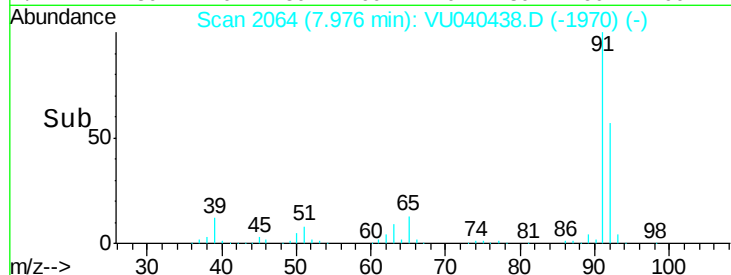
300000

200000

100000

0

Time-->



#48

2-Hexanone

Concen: 2.631 ug/L

RT: 8.69 min Scan# 2286

Delta R.T. 0.00 min

Lab File: VU040438.D

Acq: 01 Oct 2020 22:37

Tgt Ion: 43 Resp: 18825

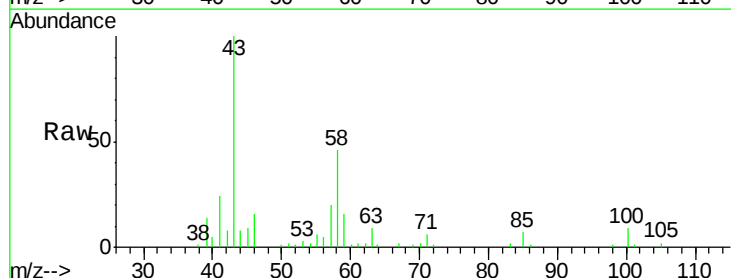
Ion Ratio Lower Upper

43 100

58 50.2 41.0 61.4

57 17.8 14.6 22.0

100 9.1 8.2 12.4



Abundance Ion 43.05 (42.75 to 43.75): VU040438.D (-2193) (-)

Ion 58.05 (57.75 to 58.75): VU040438.D (-2193) (-)

Ion 57.20 (56.90 to 57.90): VU040438.D (-2193) (-)

Ion 100.15 (99.85 to 100.85): VU040438.D (-2193) (-)

8.69

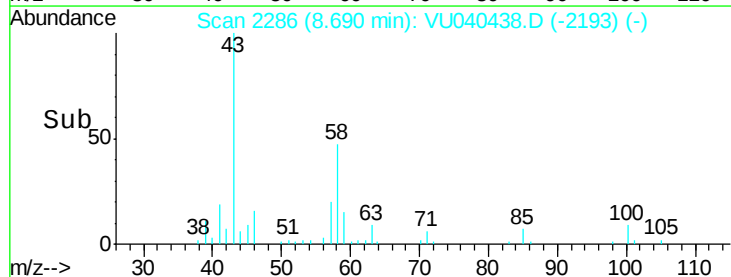
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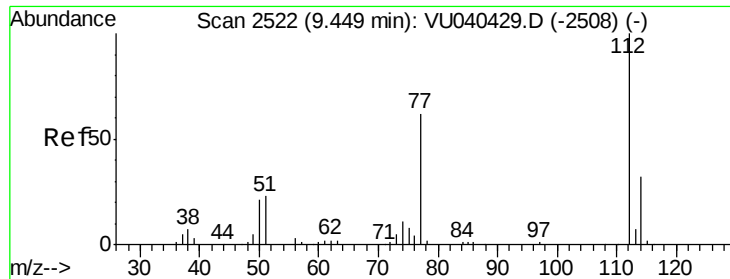
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5000

0

Time-->

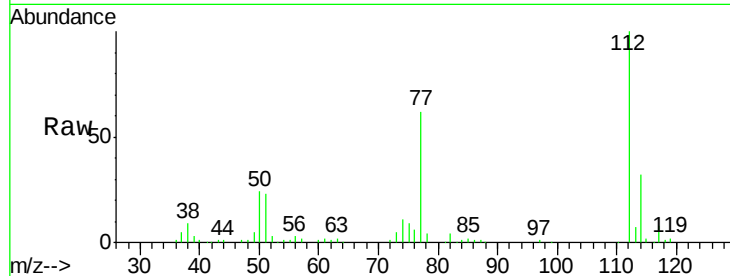




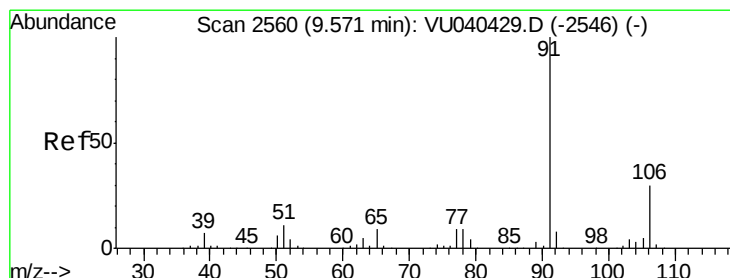
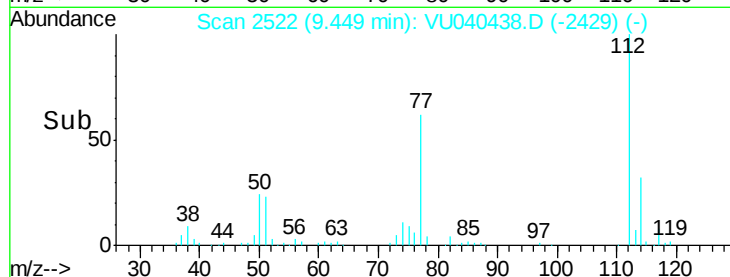
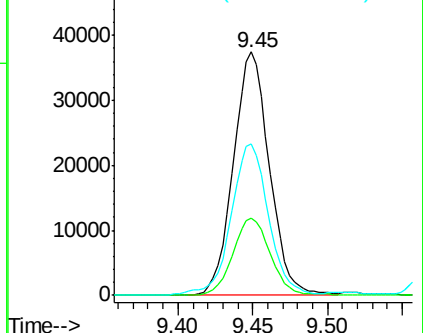
#51
Chlorobenzene
Concen: 2.130 ug/L
RT: 9.45 min Scan# 2522
Delta R.T. 0.00 min
Lab File: VU040438.D
Acq: 01 Oct 2020 22:37

Instrument :
MSVOA_U
ClientSampled :
BG3S5

Tot Ion: 112 Resp: 62887
Ion Ratio Lower Upper
112 100
114 31.6 22.0 40.8
77 62.0 49.5 74.3

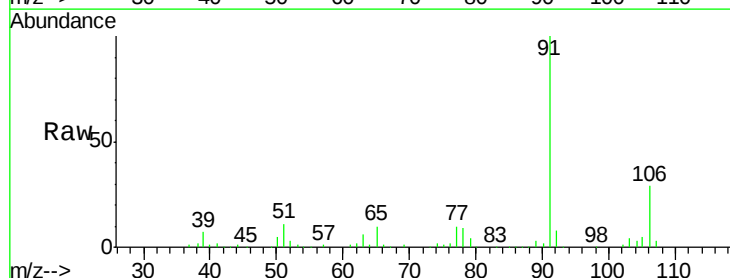


Abundance Ion 112.10 (111.80 to 112.80): V
Ion 114.05 (113.75 to 114.75): V
Ion 77.10 (76.80 to 77.80): V

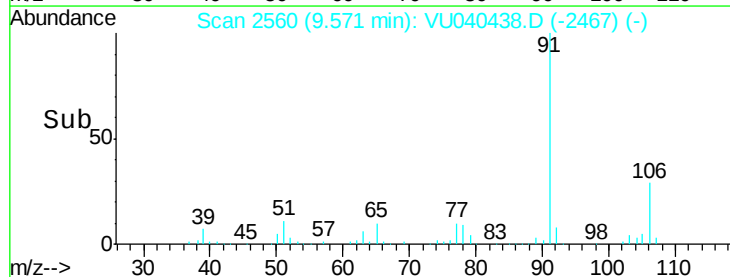
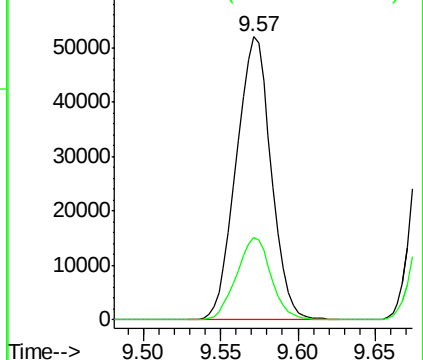


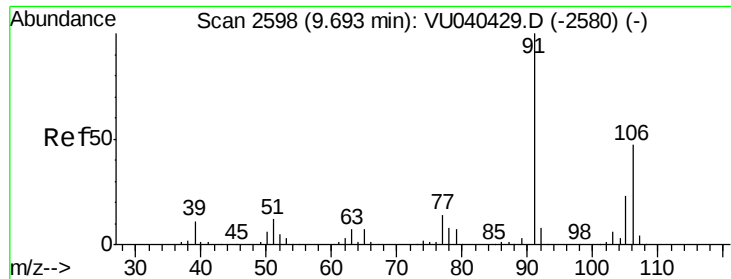
#52
Ethylbenzene
Concen: 1.647 ug/L
RT: 9.57 min Scan# 2560
Delta R.T. 0.00 min
Lab File: VU040438.D
Acq: 01 Oct 2020 22:37

Tgt Ion: 91 Resp: 81588
Ion Ratio Lower Upper
91 100
106 28.9 21.1 39.3



Abundance Ion 91.15 (90.85 to 91.85): V
Ion 106.15 (105.85 to 106.85): V





#53

m,p-Xylene

Concen: 4.680 ug/L

RT: 9.69 min Scan# 2598

Delta R.T. 0.00 min

Lab File: VU040438.D

Acq: 01 Oct 2020 22:37

Instrument :

MSVOA_U

ClientSampleId :

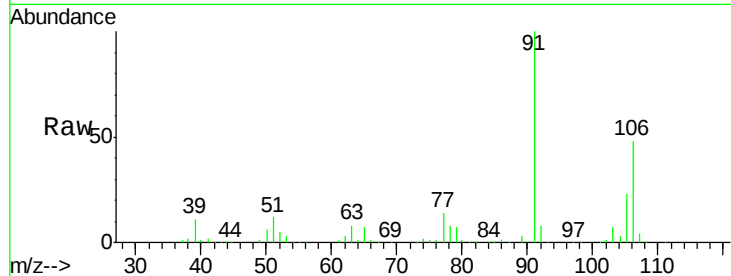
BG3S5

Tot Ion:106 Resp: 86380

Ion Ratio Lower Upper

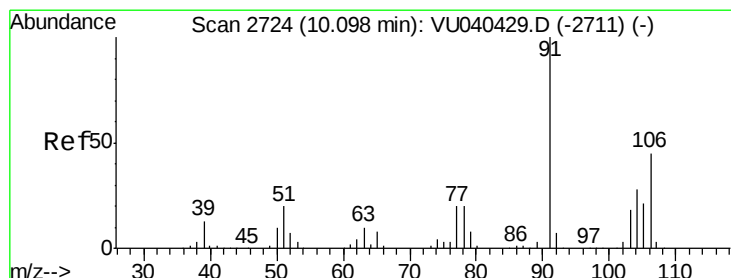
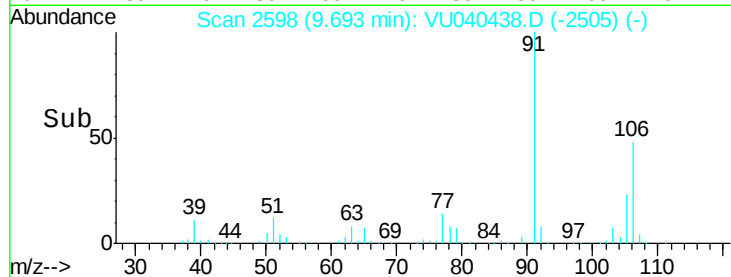
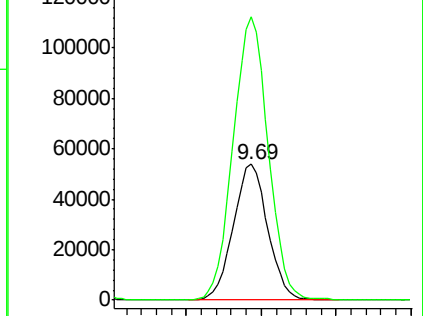
106 100

91 208.2 149.0 276.6



Abundance Ion 106.15 (105.85 to 106.85): V

Ion 91.15 (90.85 to 91.85): VU0



#54

o-Xylene

Concen: 1.560 ug/L

RT: 10.10 min Scan# 2725

Delta R.T. 0.00 min

Lab File: VU040438.D

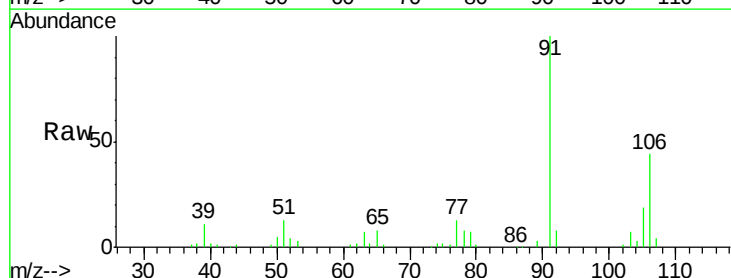
Acq: 01 Oct 2020 22:37

Tgt Ion:106 Resp: 27092

Ion Ratio Lower Upper

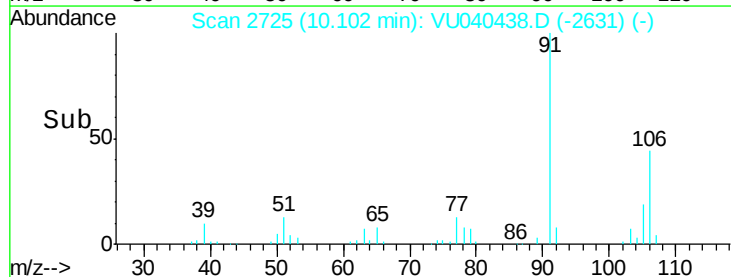
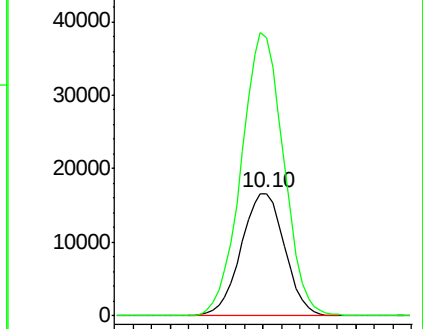
106 100

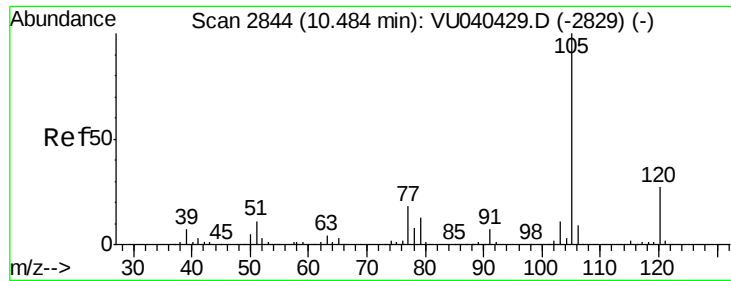
91 226.6 160.9 298.9



Abundance Ion 106.15 (105.85 to 106.85): V

Ion 91.15 (90.85 to 91.85): VU0





#56

Isopropylbenzene

Concen: 4.329 ug/L

RT: 10.48 min Scan# 2844

Delta R.T. 0.00 min

Lab File: VU040438.D

Acq: 01 Oct 2020 22:37

Instrument :

MSVOA_U

ClientSampleId :

BG3S5

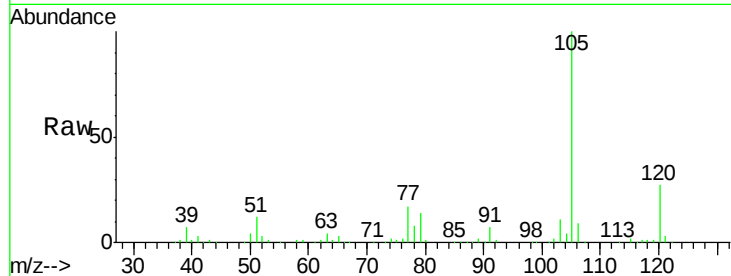
Tot Ion:105 Resp: 202820

Ion Ratio Lower Upper

105 100

120 25.7 20.6 30.8

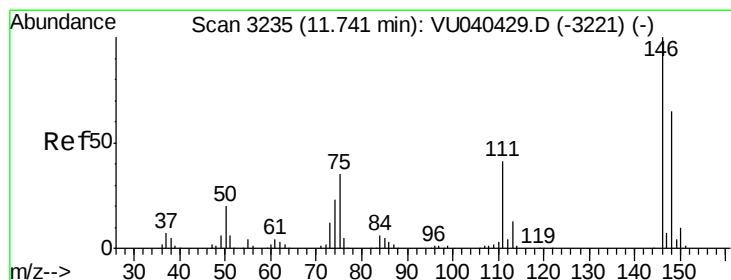
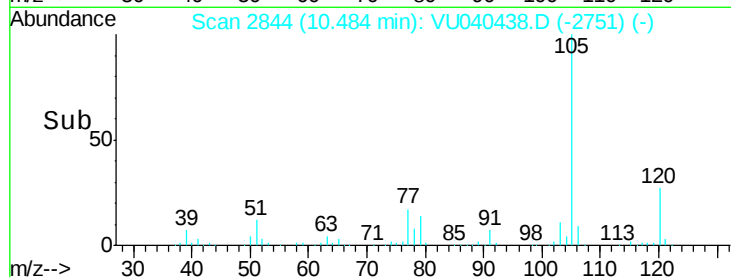
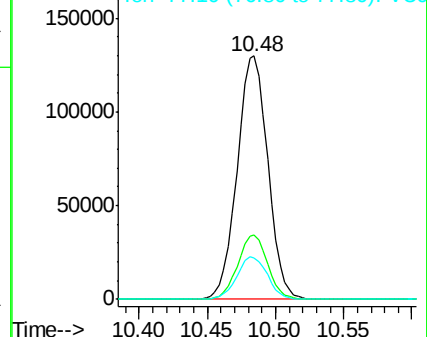
77 17.5 14.3 21.5



Abundance Ion 105.05 (104.75 to 105.75): V

Ion 120.10 (119.80 to 120.80): V

Ion 77.10 (76.80 to 77.80): V



#62

1,3-Dichlorobenzene

Concen: 0.371 ug/L

RT: 11.74 min Scan# 3235

Delta R.T. 0.00 min

Lab File: VU040438.D

Acq: 01 Oct 2020 22:37

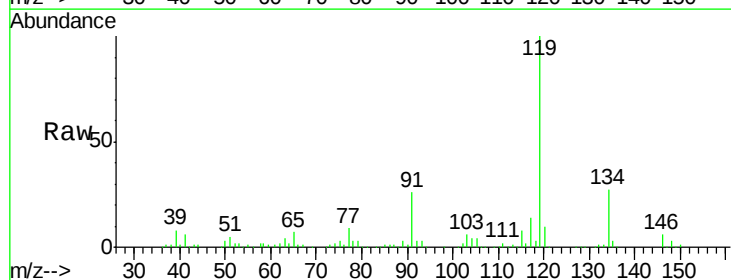
Tgt Ion:146 Resp: 8035

Ion Ratio Lower Upper

146 100

111 42.0 28.6 53.0

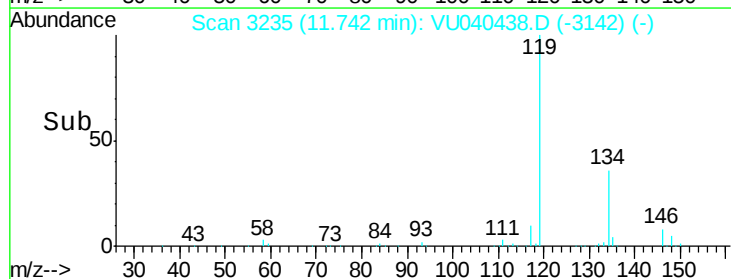
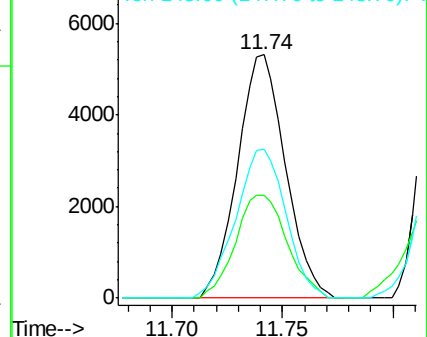
148 61.3 43.4 80.6

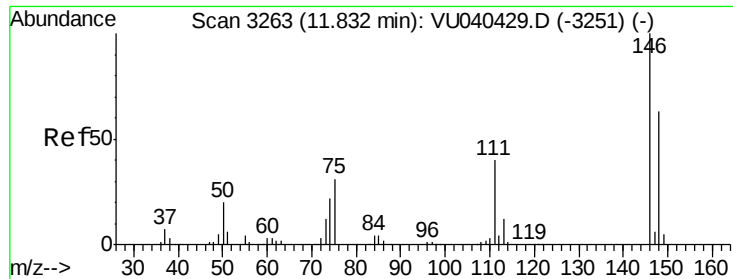


Abundance Ion 145.95 (145.65 to 146.65): V

Ion 111.00 (110.70 to 111.70): V

Ion 148.00 (147.70 to 148.70): V

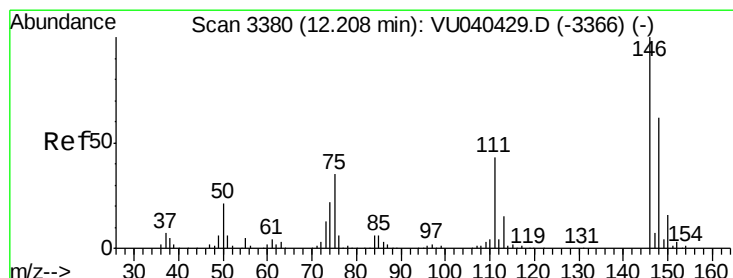
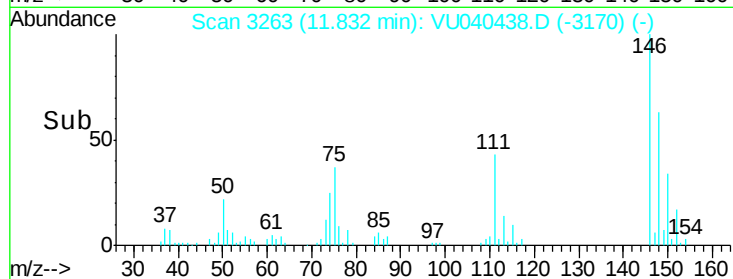
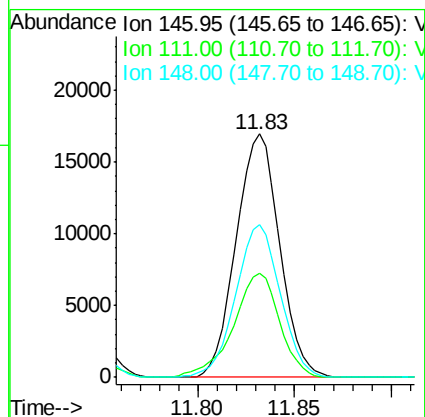
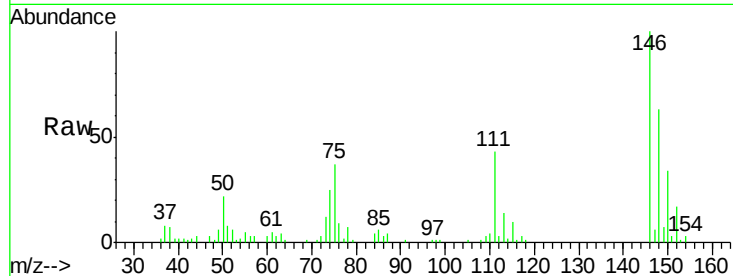




#63
 1,4-Dichlorobenzene
 Concen: 1.177 ug/L
 RT: 11.83 min Scan# 3263
 Delta R.T. 0.00 min
 Lab File: VU040438.D
 Acq: 01 Oct 2020 22:37

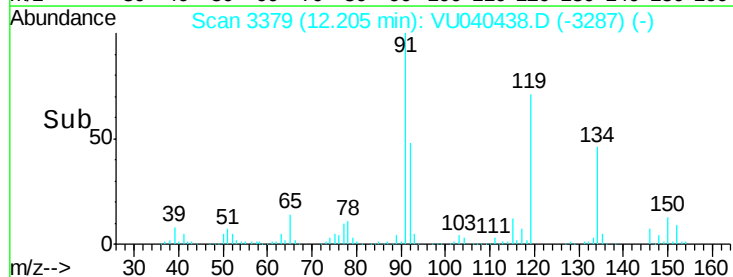
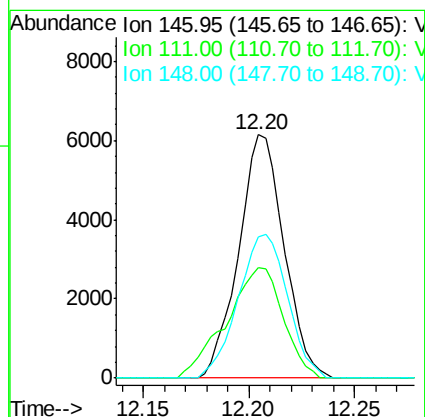
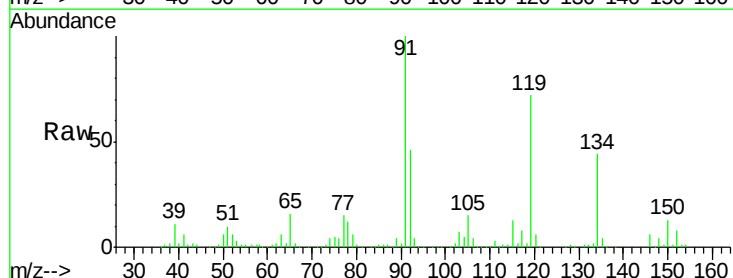
Instrument :
 MSVOA_U
 ClientSampleId :
 BG3S5

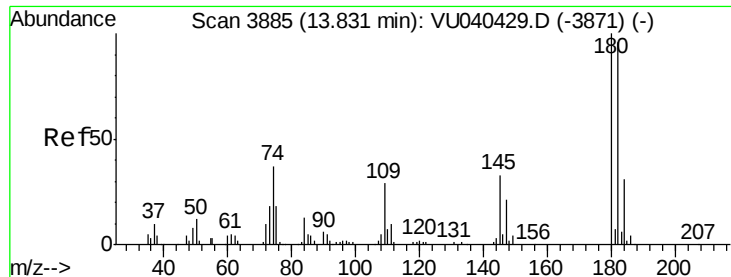
Tot Ion:146 Resp: 26523
 Ion Ratio Lower Upper
 146 100
 111 42.6 29.2 54.2
 148 62.8 44.4 82.4



#65
 1,2-Dichlorobenzene
 Concen: 0.437 ug/L
 RT: 12.20 min Scan# 3379
 Delta R.T. -0.00 min
 Lab File: VU040438.D
 Acq: 01 Oct 2020 22:37

Tgt Ion:146 Resp: 9196
 Ion Ratio Lower Upper
 146 100
 111 45.1 35.6 53.4
 148 58.2 49.8 74.6





#68

1,2,4-trichlorobenzene

Concen: 46.322 ug/L

RT: 13.83 min Scan# 3885

Delta R.T. 0.00 min

Lab File: VU040438.D

Acq: 01 Oct 2020 22:37

Instrument :

MSVOA_U

ClientSampleID :

BG3S5

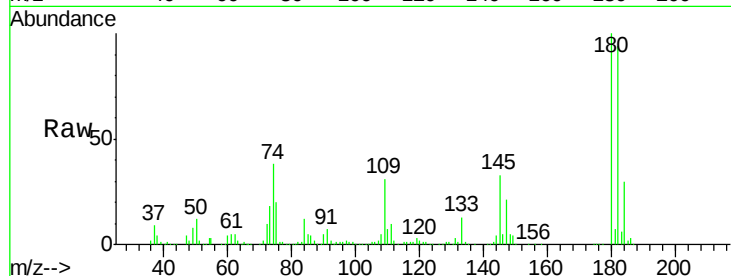
Tot Ion:180 Resp: 575547

Ion Ratio Lower Upper

180 100

182 94.8 76.6 115.0

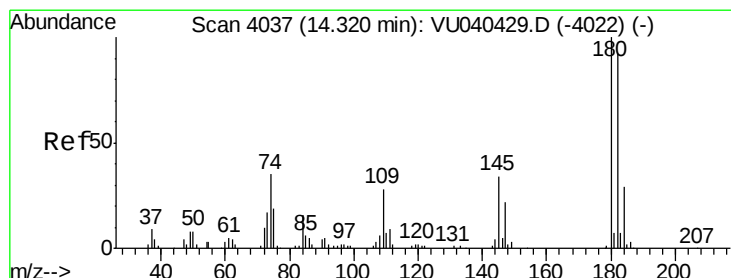
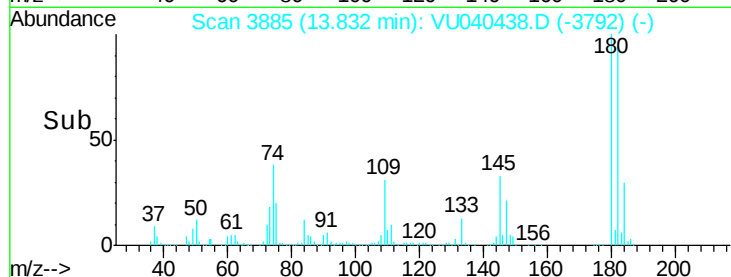
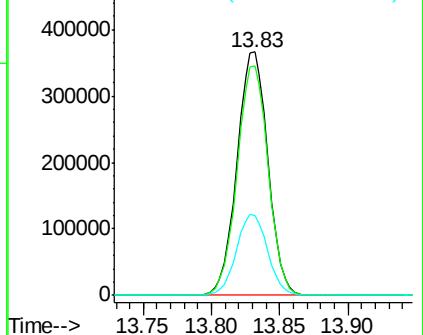
145 33.5 26.3 39.5



Abundance Ion 179.90 (179.60 to 180.60): V

Ion 182.00 (181.70 to 182.70): V

Ion 144.95 (144.65 to 145.65): V



#70

1,2,3-Trichlorobenzene

Concen: 10.948 ug/L

RT: 14.32 min Scan# 4036

Delta R.T. -0.00 min

Lab File: VU040438.D

Acq: 01 Oct 2020 22:37

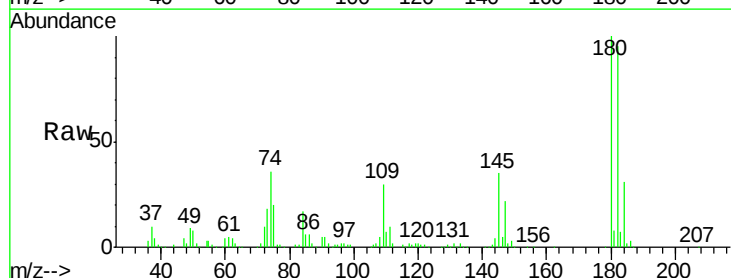
Tgt Ion:180 Resp: 124467

Ion Ratio Lower Upper

180 100

182 95.8 76.6 115.0

145 35.3 27.8 41.6



Abundance Ion 179.90 (179.60 to 180.60): V

Ion 181.90 (181.60 to 182.60): V

Ion 144.95 (144.65 to 145.65): V

