

Data Path : Z:\VOASRV\HPCHEM1\MSVOA U\DATA\U100120\
 Data File : VU040439.D
 Acq On : 01 Oct 2020 23:01
 Operator : SY/MD
 Sample : L4240-09
 Misc : 25.0mL/MSVOA U/WATER
 ALS Vial : 31 Sample Multiplier: 1

Instrument :
 MSVOA_U
 ClientSampleId :
 BG3S7

Quant Time: Oct 02 06:19:27 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	142746	5.00	ug/L	0.00
28) Chlorobenzene-d5	9.42	117	136646	5.00	ug/L	0.00
60) 1,4-Dichlorobenzene-d4	11.81	152	71638	5.00	ug/L	0.00

System Monitoring Compounds

4) Vinyl Chloride-d3	1.60	65	26098	3.69	ug/L	0.00
Spiked Amount	5.000	Range	40 - 130	Recovery	=	73.80%
7) Chloroethane-d5	1.92	69	28096	4.54	ug/L	0.00
Spiked Amount	5.000	Range	65 - 130	Recovery	=	90.80%
11) 1,1-Dichloroethene-d2	2.58	63	45721	2.69	ug/L	0.00
Spiked Amount	5.000	Range	60 - 125	Recovery	=	53.80%#
20) 2-Butanone-d5	4.66	46	192145	54.74	ug/L	0.00
Spiked Amount	50.000	Range	40 - 130	Recovery	=	109.48%
24) Chloroform-d	5.08	84	79665	4.74	ug/L	0.00
Spiked Amount	5.000	Range	70 - 125	Recovery	=	94.80%
26) 1,2-Dichloroethane-d4	5.72	65	48089	4.69	ug/L	0.00
Spiked Amount	5.000	Range	70 - 130	Recovery	=	93.80%
32) Benzene-d6	5.74	84	135992	4.95	ug/L	0.00
Spiked Amount	5.000	Range	70 - 125	Recovery	=	99.00%
36) 1,2-Dichloropropane-d6	6.70	67	49903	4.97	ug/L	0.00
Spiked Amount	5.000	Range	60 - 140	Recovery	=	99.40%
41) Toluene-d8	7.90	98	120511	5.05	ug/L	0.00
Spiked Amount	5.000	Range	70 - 130	Recovery	=	101.00%
43) trans-1,3-Dichloropropene-	8.19	79	18527	4.52	ug/L	0.00
Spiked Amount	5.000	Range	55 - 130	Recovery	=	90.40%
46) 2-Hexanone-d5	8.64	63	143321	59.41	ug/L	0.00
Spiked Amount	50.000	Range	45 - 130	Recovery	=	118.82%
57) 1,1,2,2-Tetrachloroethane-	10.75	84	48464	4.96	ug/L	0.00
Spiked Amount	5.000	Range	65 - 120	Recovery	=	99.20%
64) 1,2-Dichlorobenzene-d4	12.19	152	55599	5.12	ug/L	0.00
Spiked Amount	5.000	Range	80 - 120	Recovery	=	102.40%

Target Compounds

Target Compounds	R.T.	QIon	Response	Conc	Units	Ovalue
8) Chloroethane	1.94	64	73555	8.995	ug/L	83
14) Carbon disulfide	2.81	76	2958	0.086	ug/L	97
19) 1,1-Dichloroethane	3.89	63	20130	0.873	ug/L	89
30) Cyclohexane	5.41	56	666262	34.502	ug/L	98
33) Benzene	5.79	78	16401	0.358	ug/L	100
35) Methylcyclohexane	6.77	83	36716	2.058	ug/L	92
42) Toluene	7.97	91	7958	0.169	ug/L	96
51) Chlorobenzene	9.45	112	2269191	74.711	ug/L	98
52) Ethylbenzene	9.57	91	13001	0.255	ug/L	100
53) m,p-Xylene	9.70	106	7981	0.420	ug/L	98
54) o-Xylene	10.10	106	1861	0.104	ug/L	83
56) Isopropylbenzene	10.48	105	7069	0.147	ug/L	97
62) 1,3-Dichlorobenzene	11.74	146	244408	10.305	ug/L	99
63) 1,4-Dichlorobenzene	11.83	146	463195	18.776	ug/L	99
65) 1,2-Dichlorobenzene	12.20	146	29881	1.296	ug/L	95
68) 1,2,4-trichlorobenzene	13.83	180	341136	25.074	ug/L	100
70) 1,2,3-Trichlorobenzene	14.32	180	57042	4.582	ug/L	97

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Quant Time: Oct 02 06:19:27 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

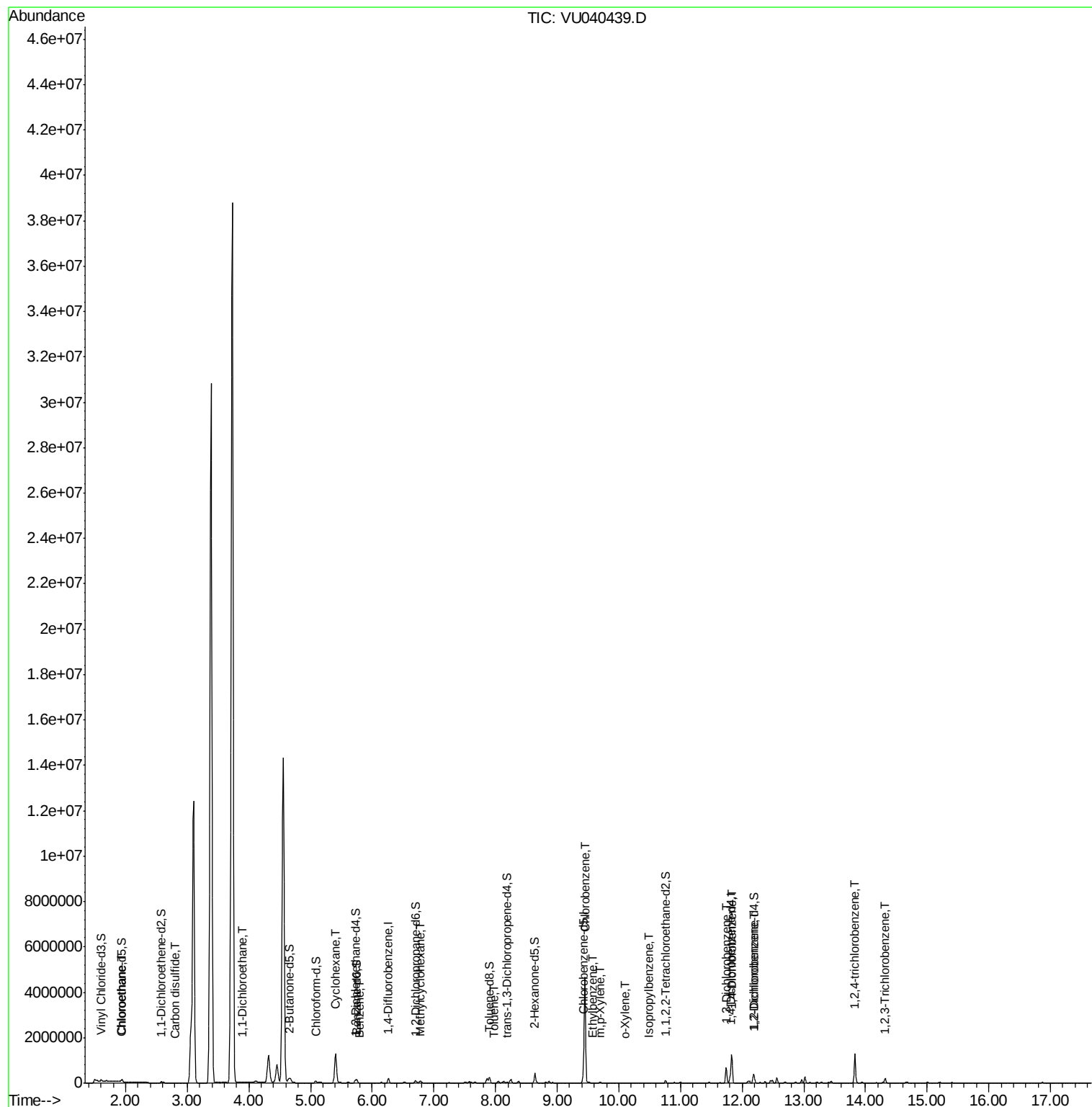
Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
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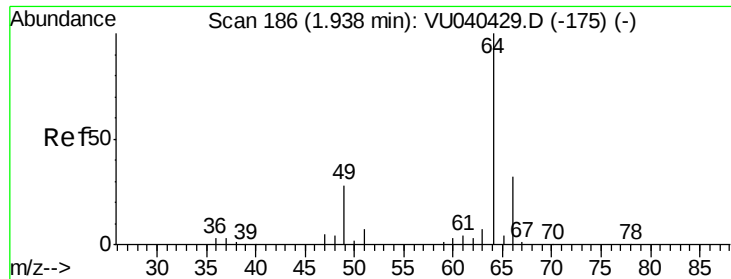
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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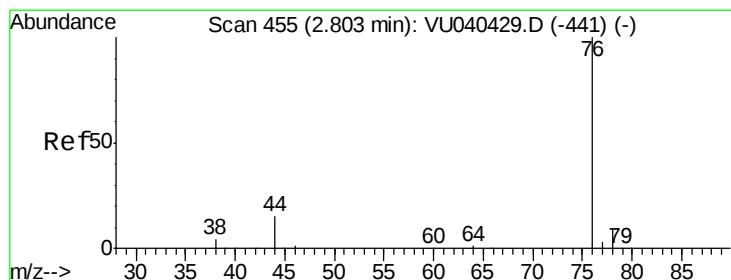
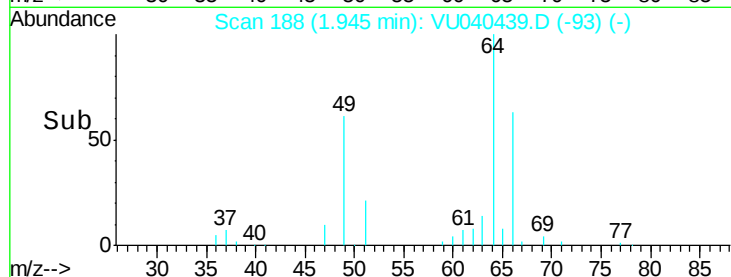
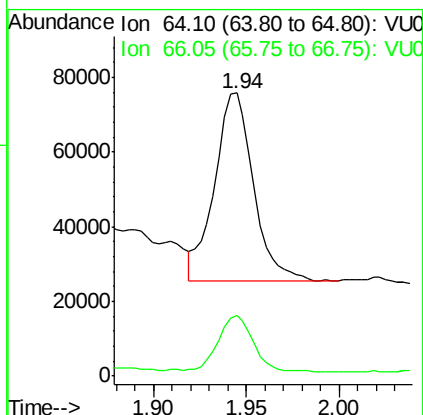
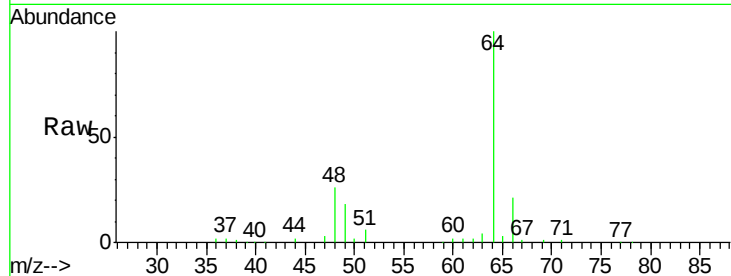




#8
Chloroethane
Concen: 8.995 ug/L
RT: 1.94 min Scan# 188
Delta R.T. 0.01 min
Lab File: VU040439.D
Acq: 01 Oct 2020 23:01

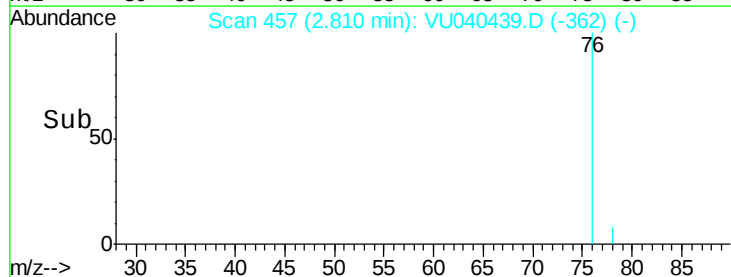
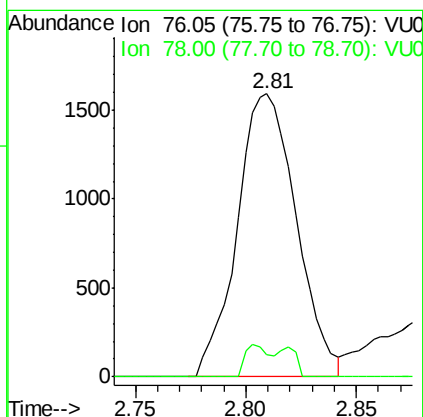
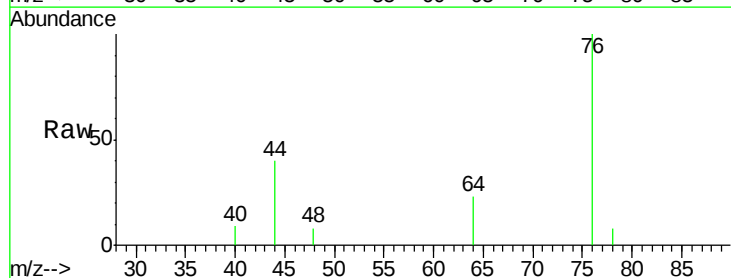
Instrument :
MSVOA_U
ClientSampleId :
BG3S7

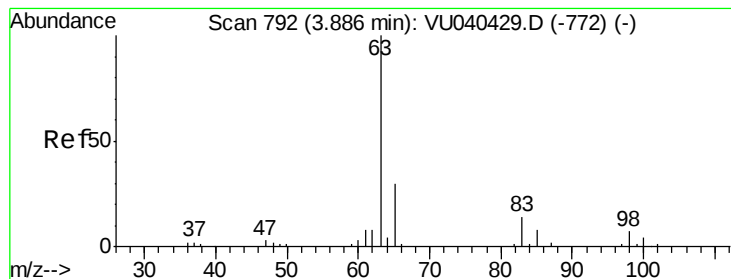
Tot Ion: 64 Resp: 73555
Ion Ratio Lower Upper
64 100
66 21.5 21.3 39.6



#14
Carbon disulfide
Concen: 0.086 ug/L
RT: 2.81 min Scan# 457
Delta R.T. 0.01 min
Lab File: VU040439.D
Acq: 01 Oct 2020 23:01

Tgt Ion: 76 Resp: 2958
Ion Ratio Lower Upper
76 100
78 7.9 7.2 10.8





#19

1,1-Dichloroethane

Concen: 0.873 ug/L

RT: 3.89 min Scan# 793

Delta R.T. 0.00 min

Lab File: VU040439.D

Acq: 01 Oct 2020 23:01

Instrument :

MSVOA_U

ClientSampled :

BG3S7

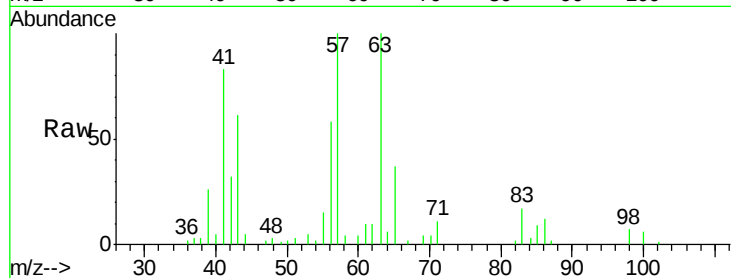
Tot Ion: 63 Resp: 20130

Ion Ratio Lower Upper

63 100

65 37.4 21.7 40.3

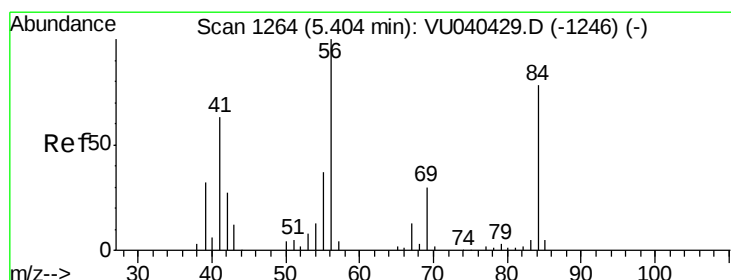
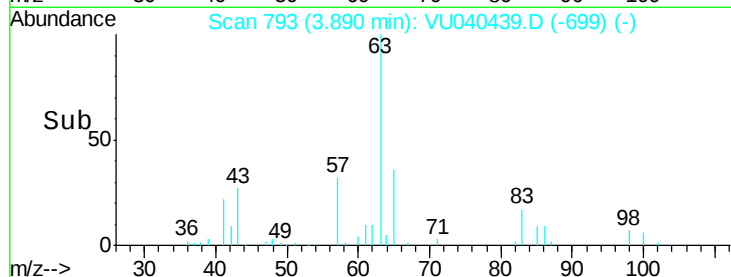
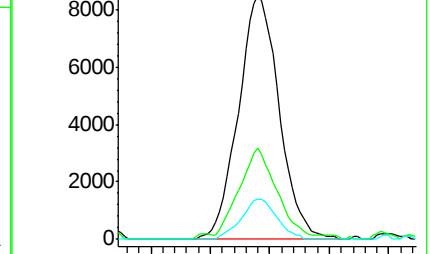
83 16.6 9.1 16.9



Abundance Ion 63.10 (62.80 to 63.80): VU040439.D (-772) (-)

Ion 65.10 (64.80 to 65.80): VU040439.D (-772) (-)

Ion 83.05 (82.75 to 83.75): VU040439.D (-772) (-)



#30

Cyclohexane

Concen: 34.502 ug/L

RT: 5.41 min Scan# 1265

Delta R.T. 0.00 min

Lab File: VU040439.D

Acq: 01 Oct 2020 23:01

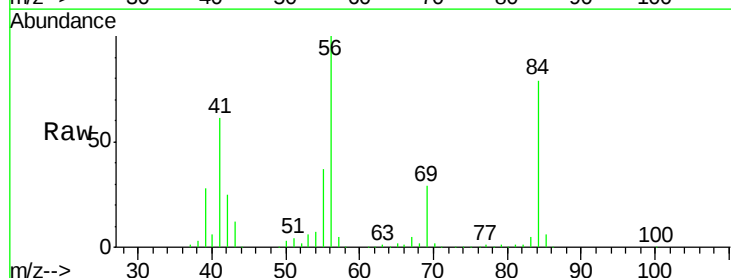
Tgt Ion: 56 Resp: 666262

Ion Ratio Lower Upper

56 100

69 28.6 23.3 34.9

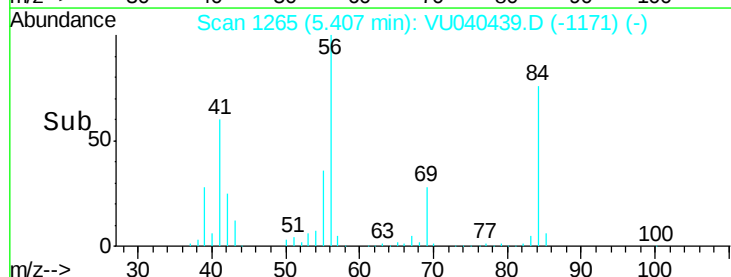
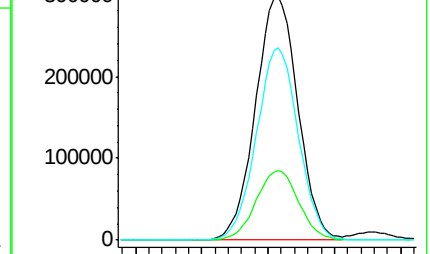
84 77.9 64.2 96.4

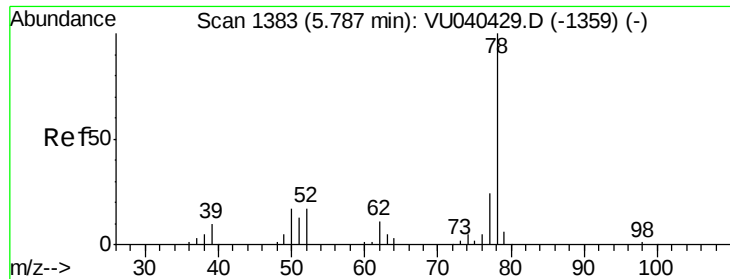


Abundance Ion 56.10 (55.80 to 56.80): VU040439.D (-1246) (-)

Ion 69.15 (68.85 to 69.85): VU040439.D (-1246) (-)

Ion 84.15 (83.85 to 84.85): VU040439.D (-1246) (-)

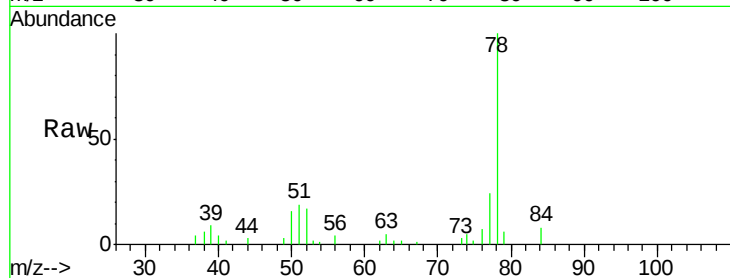




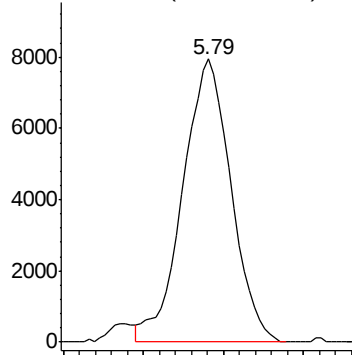
#33
Benzene
Concen: 0.358 ug/L
RT: 5.79 min Scan# 1384
Delta R.T. 0.00 min
Lab File: VU040439.D
Acq: 01 Oct 2020 23:01

Instrument :
MSVOA_U
ClientSampled :
BG3S7

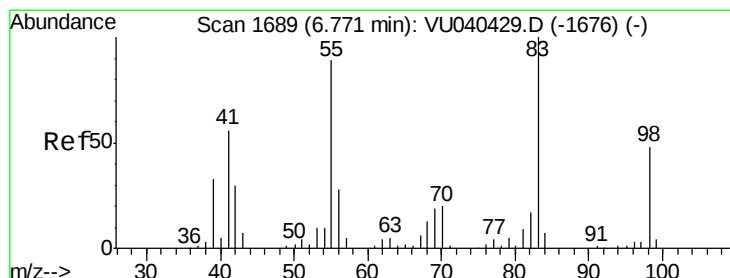
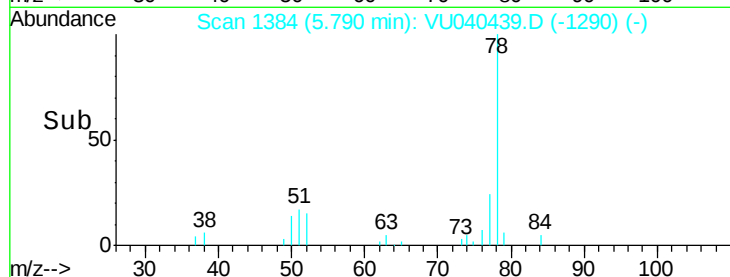
Tgt Ion: 78 Resp: 16401



Abundance Ion 78.10 (77.80 to 78.80): VU0

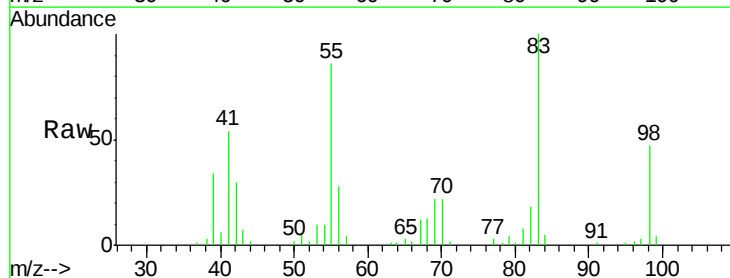


Time--> 5.70 5.75 5.80 5.85



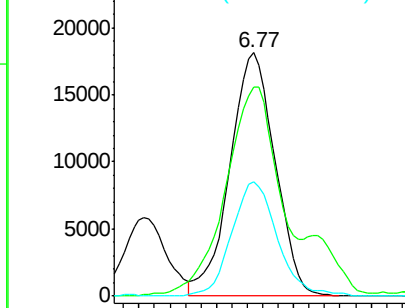
#35
Methylcyclohexane
Concen: 2.058 ug/L
RT: 6.77 min Scan# 1690
Delta R.T. 0.00 min
Lab File: VU040439.D
Acq: 01 Oct 2020 23:01

Tgt Ion: 83 Resp: 36716
Ion Ratio Lower Upper
83 100
55 100.0 71.4 107.2
98 47.5 38.5 57.7

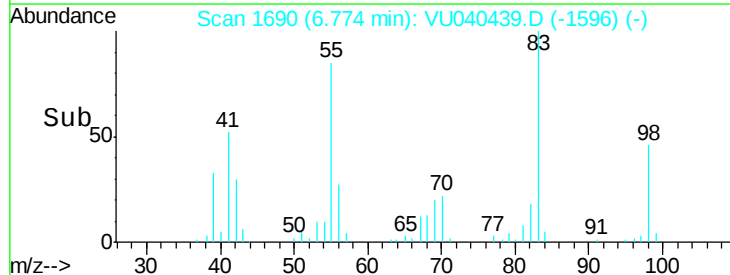


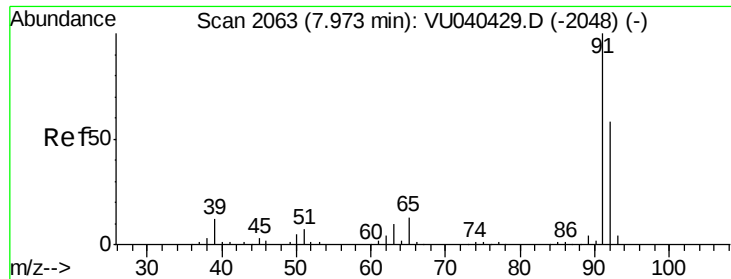
Abundance Ion 83.15 (82.85 to 83.85): VU0

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



Time--> 6.70 6.75 6.80 6.85





#42

Toluene

Concen: 0.169 ug/L

RT: 7.97 min Scan# 2063

Delta R.T. 0.00 min

Lab File: VU040439.D

Acq: 01 Oct 2020 23:01

Instrument :

MSVOA_U

ClientSampled :

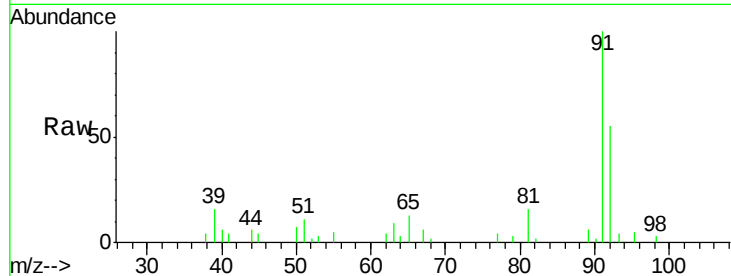
BG3S7

Tot Ion: 91 Resp: 7958

Ion Ratio Lower Upper

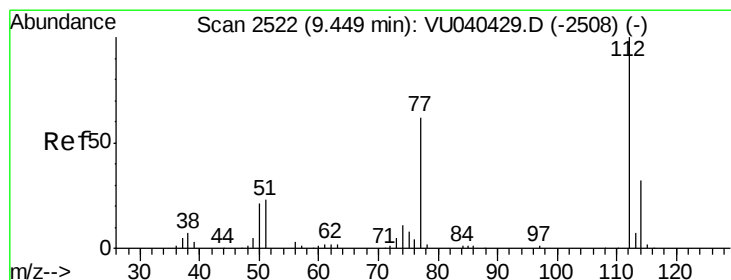
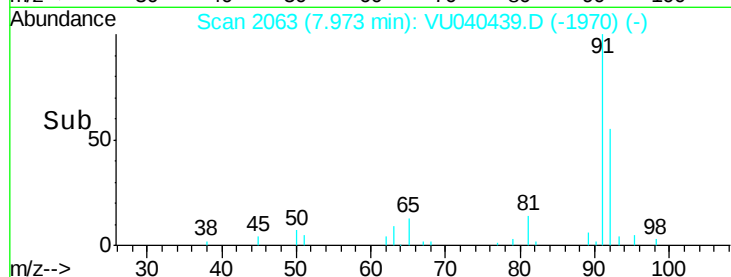
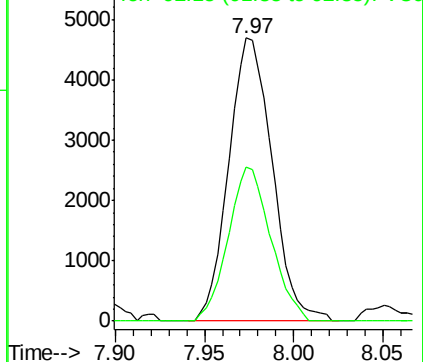
91 100

92 54.5 40.0 74.4



Abundance Ion 91.15 (90.85 to 91.85): VU040439.D (-1970) (-)

Ion 92.15 (91.85 to 92.85): VU040439.D (-1970) (-)



#51

Chlorobenzene

Concen: 74.711 ug/L

RT: 9.45 min Scan# 2522

Delta R.T. 0.00 min

Lab File: VU040439.D

Acq: 01 Oct 2020 23:01

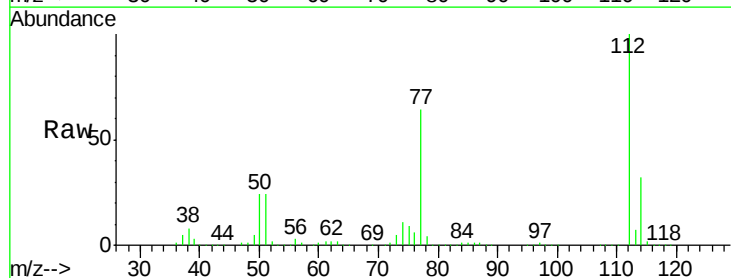
Tgt Ion: 112 Resp: 2269191

Ion Ratio Lower Upper

112 100

114 31.8 22.0 40.8

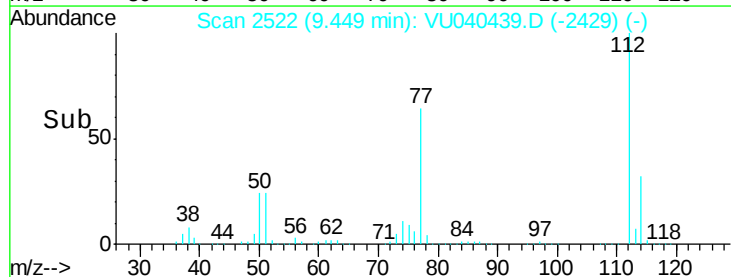
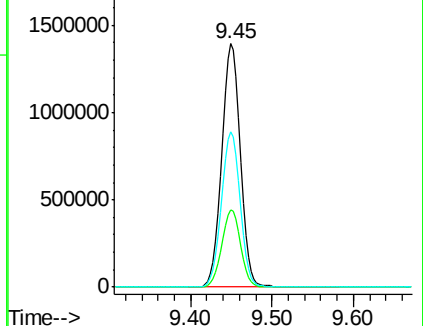
77 63.9 49.5 74.3

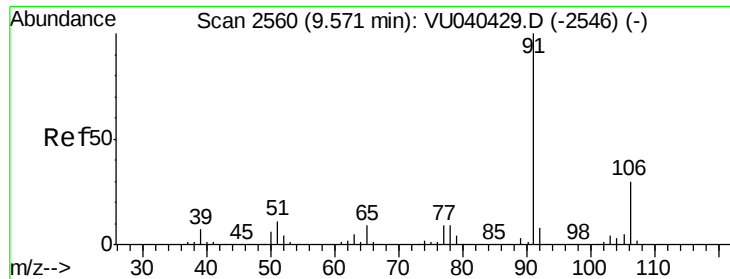


Abundance Ion 112.10 (111.80 to 112.80): VU040439.D (-2429) (-)

Ion 114.05 (113.75 to 114.75): VU040439.D (-2429) (-)

Ion 77.10 (76.80 to 77.80): VU040439.D (-2429) (-)





#52

Ethylbenzene

Concen: 0.255 ug/L

RT: 9.57 min Scan# 2560

Delta R.T. 0.00 min

Lab File: VU040439.D

Acq: 01 Oct 2020 23:01

Instrument :

MSVOA_U

ClientSampleId :

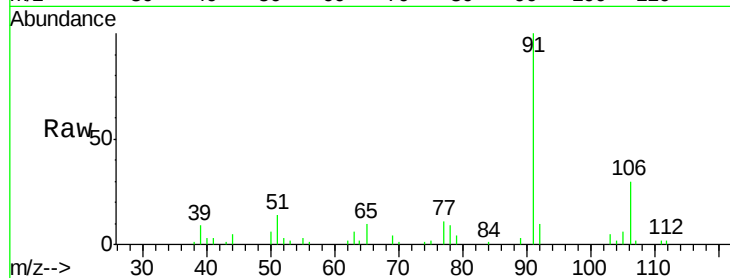
BG3S7

Tot Ion: 91 Resp: 13001

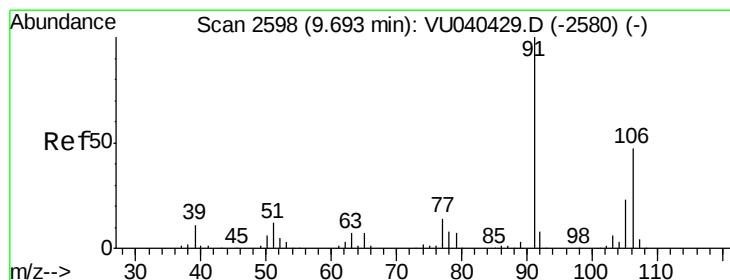
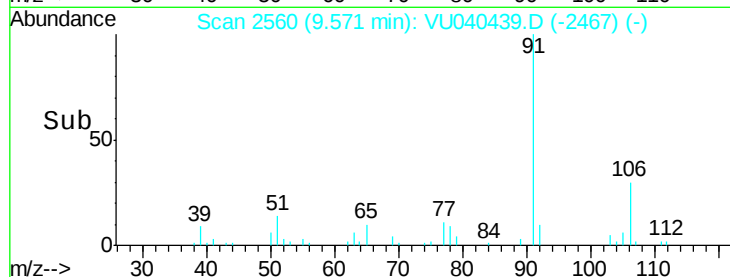
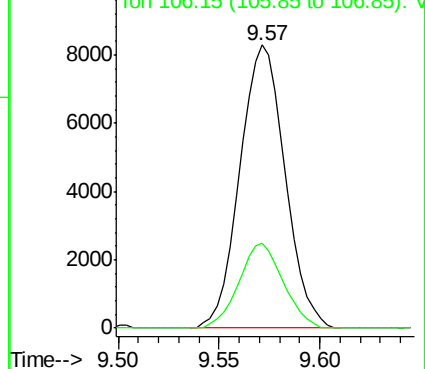
Ion Ratio Lower Upper

91 100

106 30.0 21.1 39.3



Abundance Ion 91.15 (90.85 to 91.85): VU040439.D (-2546) (-)



#53

m,p-Xylene

Concen: 0.420 ug/L

RT: 9.70 min Scan# 2599

Delta R.T. 0.00 min

Lab File: VU040439.D

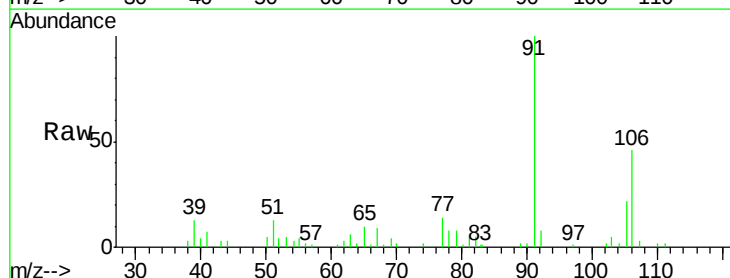
Acq: 01 Oct 2020 23:01

Tgt Ion: 106 Resp: 7981

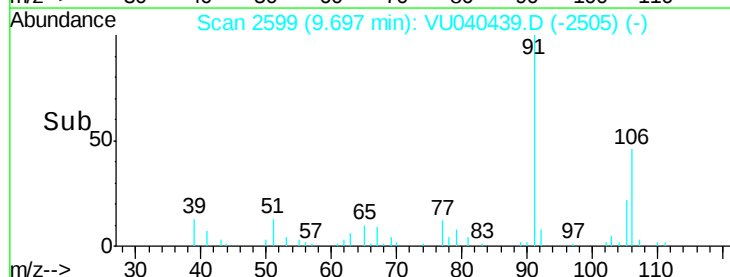
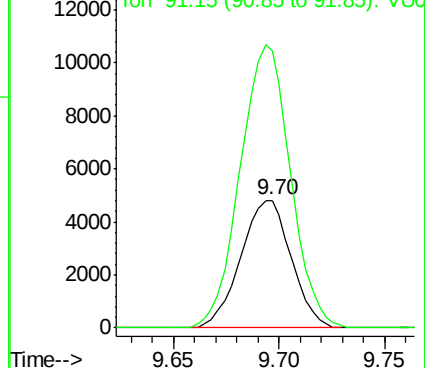
Ion Ratio Lower Upper

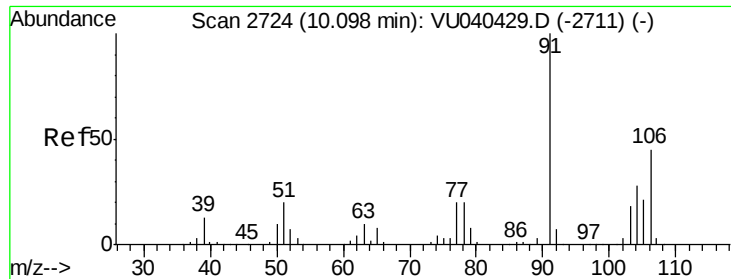
106 100

91 216.5 149.0 276.6



Abundance Ion 106.15 (105.85 to 106.85): VU040439.D (-2598) (-)

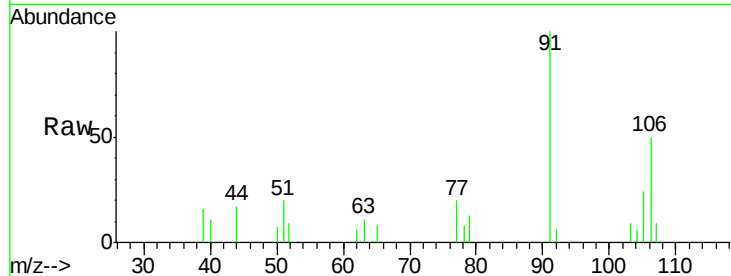




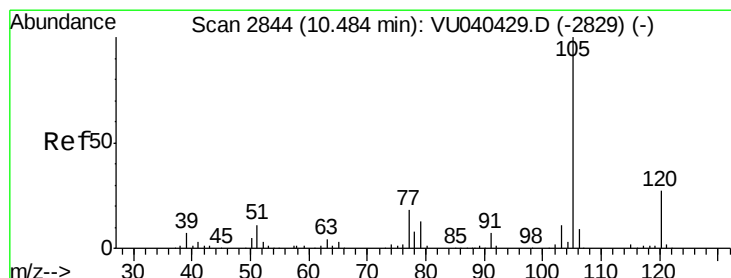
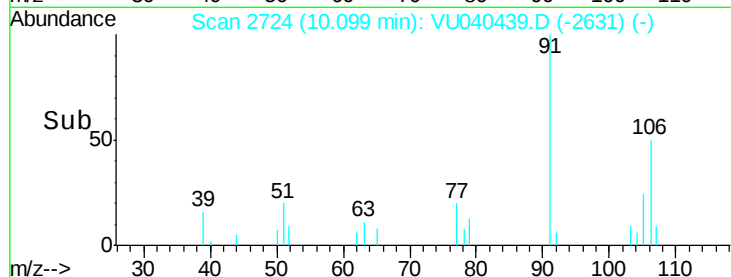
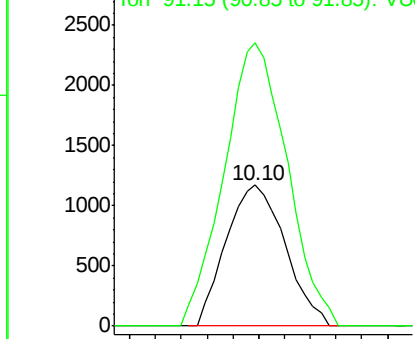
#54
o-Xylene
Concen: 0.104 ug/L
RT: 10.10 min Scan# 2724
Delta R.T. 0.00 min
Lab File: VU040439.D
Acq: 01 Oct 2020 23:01

Instrument :
MSVOA_U
ClientSampled :
BG3S7

Tot Ion:106 Resp: 1861
Ion Ratio Lower Upper
106 100
91 201.2 160.9 298.9

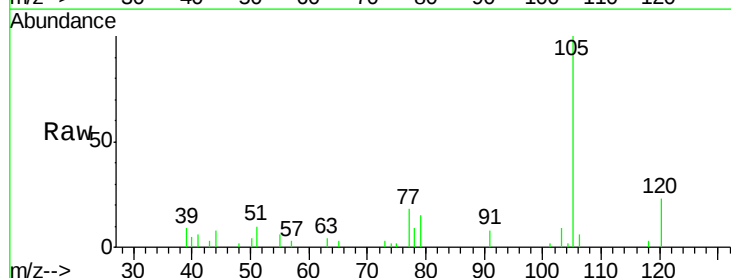


Abundance Ion 106.15 (105.85 to 106.85): V
Ion 91.15 (90.85 to 91.85): VU0

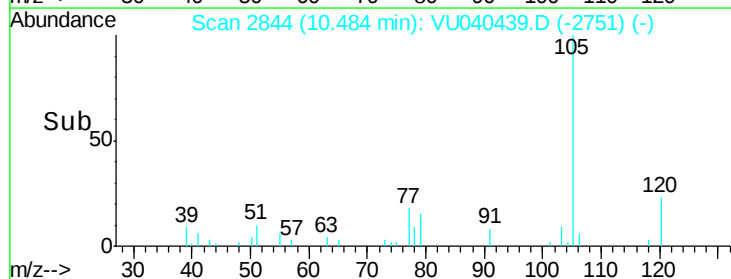
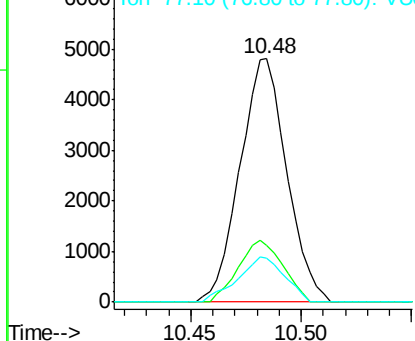


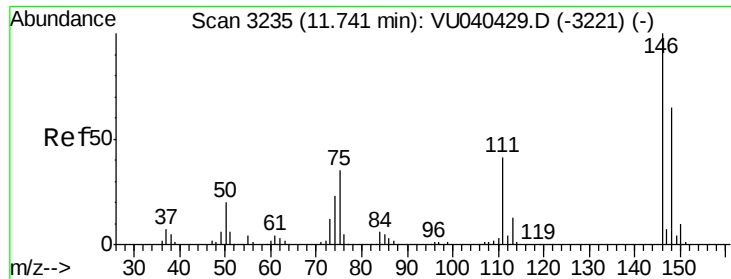
#56
Isopropylbenzene
Concen: 0.147 ug/L
RT: 10.48 min Scan# 2844
Delta R.T. 0.00 min
Lab File: VU040439.D
Acq: 01 Oct 2020 23:01

Tgt Ion:105 Resp: 7069
Ion Ratio Lower Upper
105 100
120 24.0 20.6 30.8
77 18.6 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): VU0





#62

1,3-Dichlorobenzene

Concen: 10.305 ug/L

RT: 11.74 min Scan# 3235

Delta R.T. 0.00 min

Lab File: VU040439.D

Acq: 01 Oct 2020 23:01

Instrument :

MSVOA_U

ClientSampleId :

BG3S7

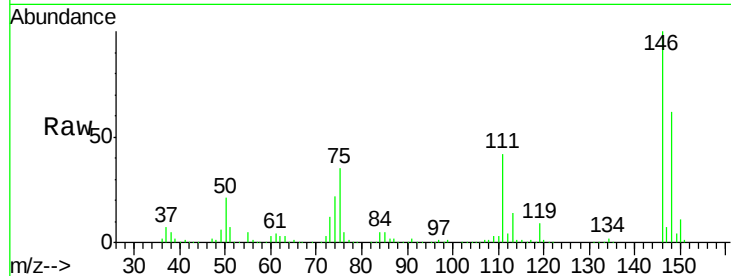
Tot Ion:146 Resp: 244408

Ion Ratio Lower Upper

146 100

111 41.9 28.6 53.0

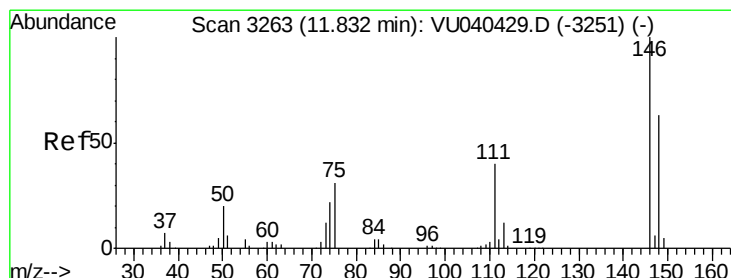
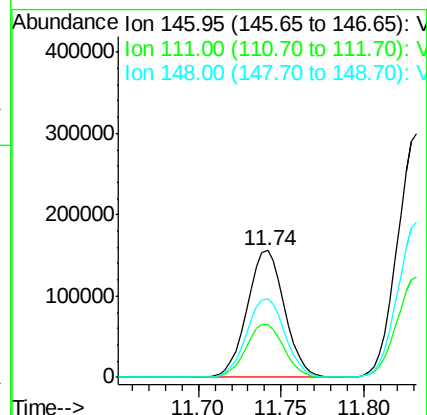
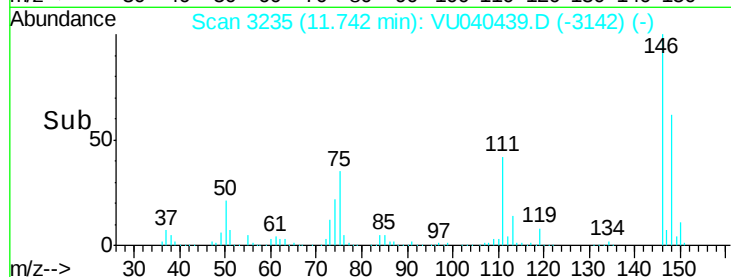
148 62.2 43.4 80.6



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: 18.776 ug/L

RT: 11.83 min Scan# 3263

Delta R.T. 0.00 min

Lab File: VU040439.D

Acq: 01 Oct 2020 23:01

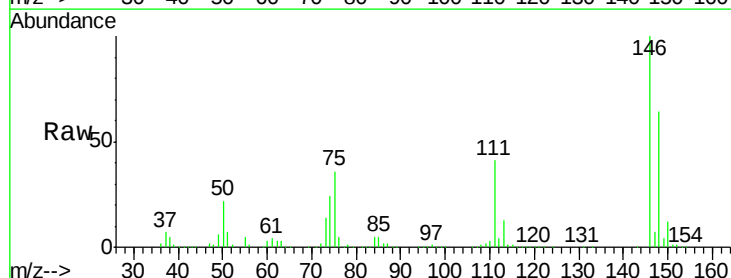
Tgt Ion:146 Resp: 463195

Ion Ratio Lower Upper

146 100

111 41.1 29.2 54.2

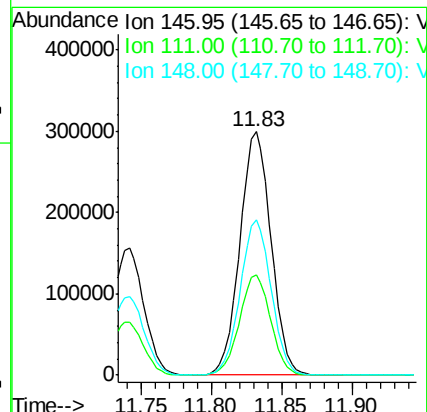
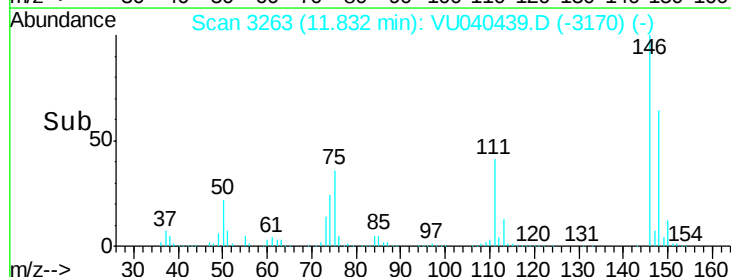
148 63.8 44.4 82.4

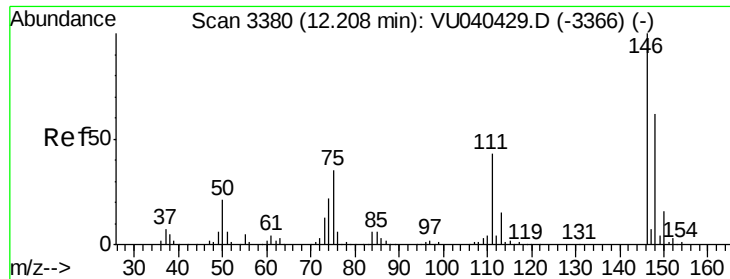


Abundance Ion 145.95 (145.65 to 146.65): V

Ion 111.00 (110.70 to 111.70): V

Ion 148.00 (147.70 to 148.70): V





#65

1,2-Dichlorobenzene

Concen: 1.296 ug/L

RT: 12.20 min Scan# 3379

Delta R.T. -0.00 min

Lab File: VU040439.D

Acq: 01 Oct 2020 23:01

Instrument :

MSVOA_U

ClientSampleId :

BG3S7

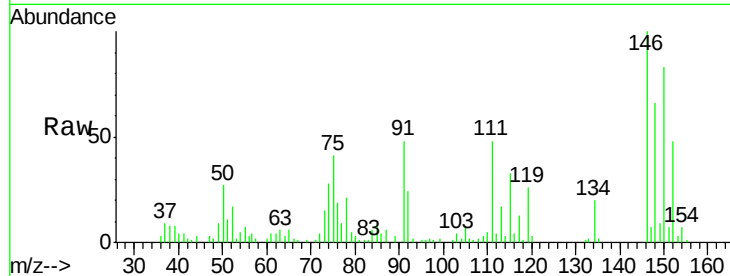
Tot Ion:146 Resp: 29881

Ion Ratio Lower Upper

146 100

111 47.6 35.6 53.4

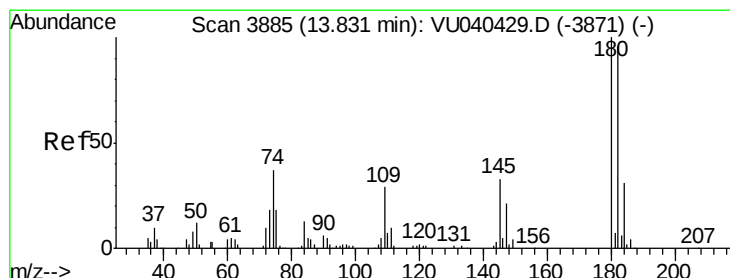
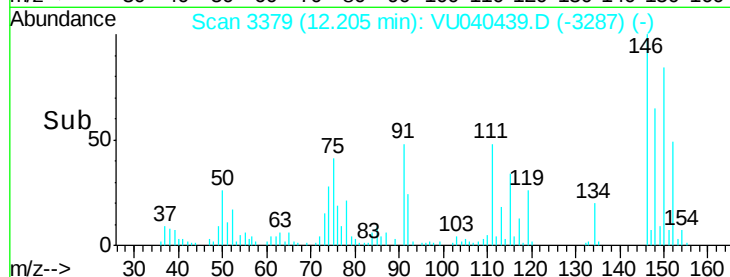
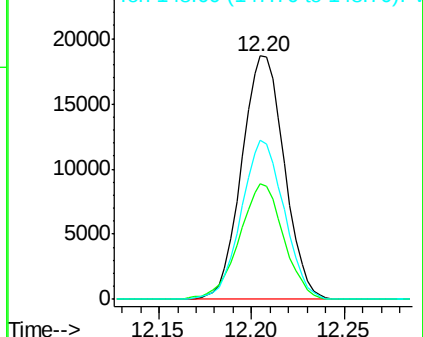
148 65.5 49.8 74.6



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



#68

1,2,4-trichlorobenzene

Concen: 25.074 ug/L

RT: 13.83 min Scan# 3884

Delta R.T. -0.00 min

Lab File: VU040439.D

Acq: 01 Oct 2020 23:01

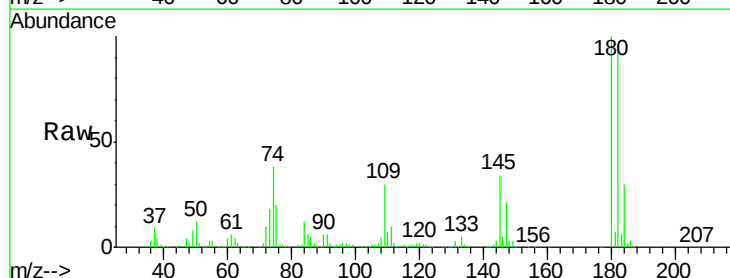
Tgt Ion:180 Resp: 341136

Ion Ratio Lower Upper

180 100

182 95.9 76.6 115.0

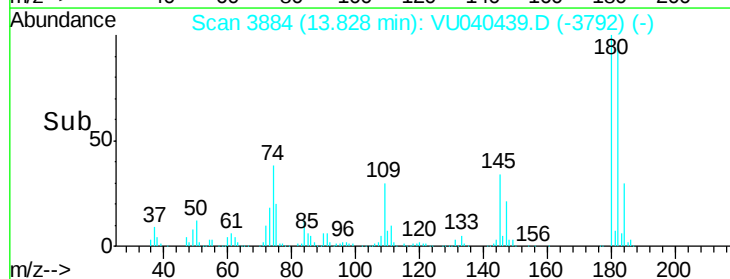
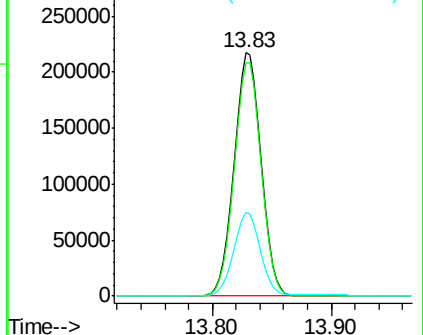
145 33.7 26.3 39.5

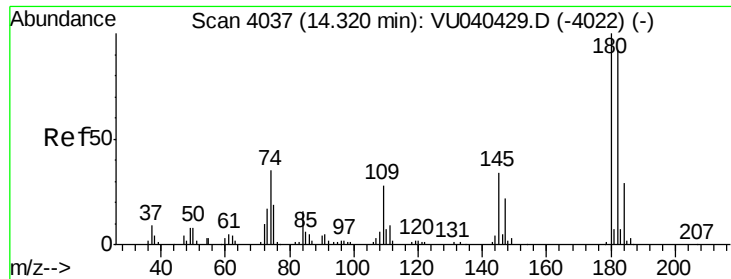


Abundance Ion 179.90 (179.60 to 180.60): V

Ion 182.00 (181.70 to 182.70): V

Ion 144.95 (144.65 to 145.65): V





#70
 1,2,3-Trichlorobenzene
 Concen: 4.582 ug/L
 RT: 14.32 min Scan# 4036
 Delta R.T. -0.00 min
 Lab File: VU040439.D
 Acq: 01 Oct 2020 23:01

Instrument :
 MSVOA_U
 ClientSampleId :
 BG3S7

Tot Ion	Ratio	Lower	Upper
180	100		
182	97.4	76.6	115.0
145	38.9	27.8	41.6

