

Data Path : Z:\VOASRV\HPCHEM1\MSVOA U\DATA\U102020\
 Data File : VU040856.D
 Acq On : 20 Oct 2020 18:43
 Operator : SY/MD
 Sample : L4428-15
 Misc : 25.0mL/MSVOA U/WATER
 ALS Vial : 20 Sample Multiplier: 1

Instrument :
 MSVOA_U
 ClientSampleId :
 ETZ49

Quant Time: Oct 21 01:31:14 2020
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_U\METHOD\SOMUTR100820WMA.M
 Quant Title : TRACE VOA SOM01.0
 QLast Update : Tue Oct 20 23:49:45 2020
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Difluorobenzene	6.26	114	118606	5.00	ug/L	0.00
28) Chlorobenzene-d5	9.42	117	120621	5.00	ug/L	0.00
60) 1,4-Dichlorobenzene-d4	11.81	152	51663	5.00	ug/L	0.00

System Monitoring Compounds

4) Vinyl Chloride-d3	1.61	65	74720	7.60	ug/L	0.00
Spiked Amount	5.000	Range	40 - 130	Recovery	=	152.00%#
7) Chloroethane-d5	1.92	69	37642	4.97	ug/L	0.00
Spiked Amount	5.000	Range	65 - 130	Recovery	=	99.40%
11) 1,1-Dichloroethene-d2	2.58	63	73113	3.81	ug/L	0.00
Spiked Amount	5.000	Range	60 - 125	Recovery	=	76.20%
20) 2-Butanone-d5	4.66	46	186195	59.20	ug/L	0.00
Spiked Amount	50.000	Range	40 - 130	Recovery	=	118.40%
24) Chloroform-d	5.08	84	87438	5.07	ug/L	0.00
Spiked Amount	5.000	Range	70 - 125	Recovery	=	101.40%
26) 1,2-Dichloroethane-d4	5.72	65	53923	5.13	ug/L	0.00
Spiked Amount	5.000	Range	70 - 130	Recovery	=	102.60%
32) Benzene-d6	5.74	84	158778	4.88	ug/L	0.00
Spiked Amount	5.000	Range	70 - 125	Recovery	=	97.60%
36) 1,2-Dichloropropane-d6	6.70	67	55310	5.12	ug/L	0.00
Spiked Amount	5.000	Range	60 - 140	Recovery	=	102.40%
41) Toluene-d8	7.91	98	127557	4.38	ug/L	0.00
Spiked Amount	5.000	Range	70 - 130	Recovery	=	87.60%
43) trans-1,3-Dichloropropene-	8.19	79	20927	4.57	ug/L	0.00
Spiked Amount	5.000	Range	55 - 130	Recovery	=	91.40%
46) 2-Hexanone-d5	8.64	63	122422	51.92	ug/L	0.00
Spiked Amount	50.000	Range	45 - 130	Recovery	=	103.84%
57) 1,1,2,2-Tetrachloroethane-	10.75	84	51105	5.27	ug/L	0.00
Spiked Amount	5.000	Range	65 - 120	Recovery	=	105.40%
64) 1,2-Dichlorobenzene-d4	12.19	152	51888	5.42	ug/L	0.00
Spiked Amount	5.000	Range	80 - 120	Recovery	=	108.40%

Target Compounds

Target Compounds	R.T.	QIon	Response	Conc	Units	Ovalue
5) Vinyl chloride	1.61	62	4253771	401.930	ug/L	98
12) 1,1-Dichloroethene	2.59	96	17393	2.055	ug/L #	54
13) Acetone	2.66	43	4471	1.834	ug/L	94
18) trans-1,2-Dichloroethene	3.37	96	54839	6.190	ug/L	95
22) cis-1,2-Dichloroethene	4.69	96	7072426	740.324	ug/L	96
30) Cyclohexane	5.40	56	5974	0.400	ug/L	97
33) Benzene	5.79	78	3433	0.089	ug/L	100
34) Trichloroethene	6.56	95	50213	4.999	ug/L	95
35) Methylcyclohexane	6.77	83	2451	0.172	ug/L	94
42) Toluene	7.98	91	4472	0.113	ug/L	85
47) Tetrachloroethene	8.56	164	83668	11.675	ug/L	96
52) Ethylbenzene	9.57	91	2873	0.067	ug/L	91
53) m,p-Xylene	9.69	106	2851	0.183	ug/L	94
54) o-Xylene	10.10	106	1030	0.069	ug/L	94
65) 1,2-Dichlorobenzene	12.20	146	1709	0.103	ug/L #	79

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Quant Title : TRACE VOA SOM01.0
QLast Update : Tue Oct 20 23:49:45 2020
Response via : Initial Calibration

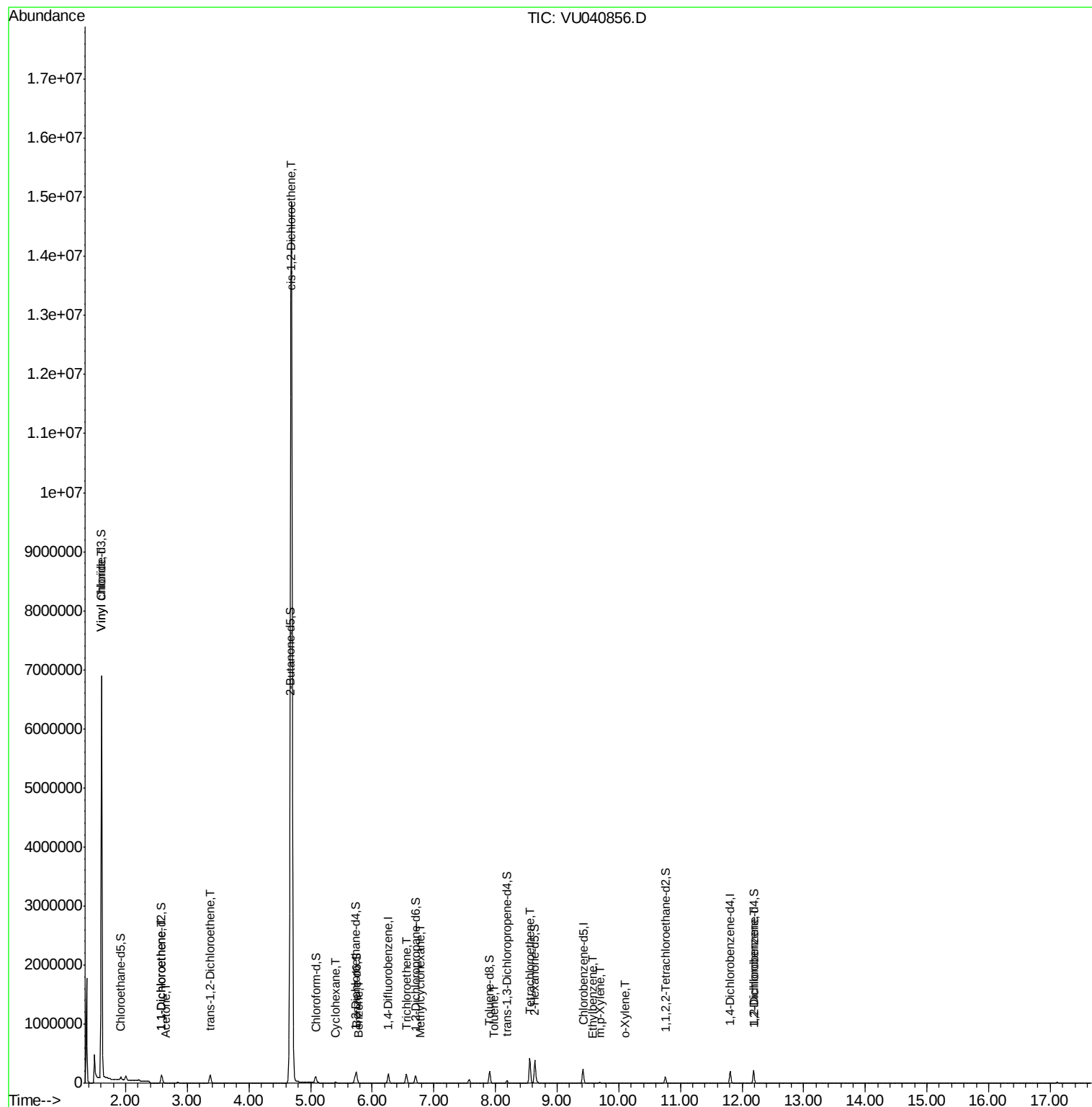
Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)

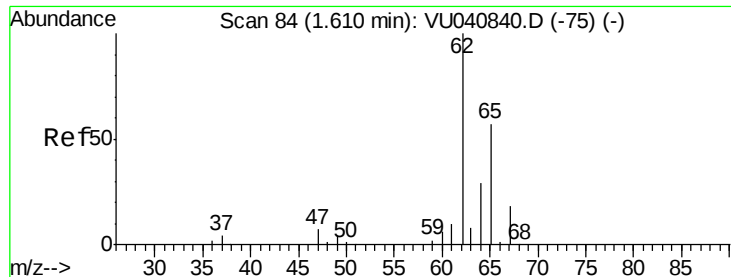
(#)=qualifier out of range (m)=manual integration (+)=signals summed						

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Response via : Initial Calibration





#5

Vinyl chloride

Concen: 401.930 ug/L

RT: 1.61 min Scan# 84

Delta R.T. -0.00 min

Lab File: VU040856.D

Acq: 20 Oct 2020 18:43

Instrument :

MSVOA_U

ClientSampleId :

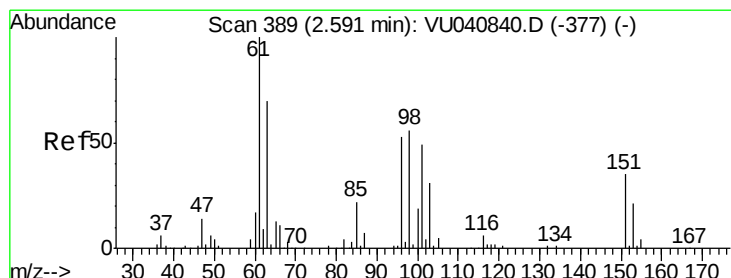
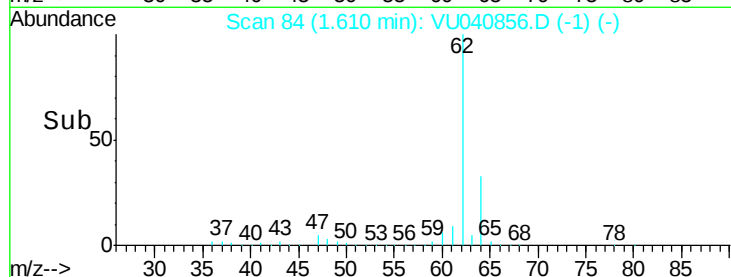
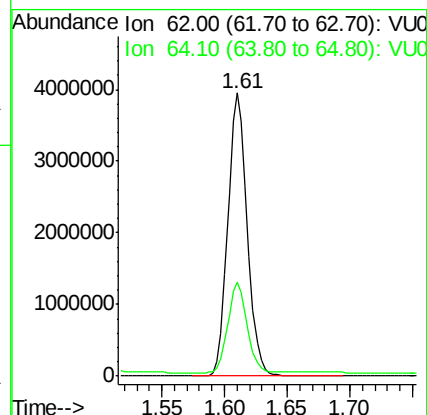
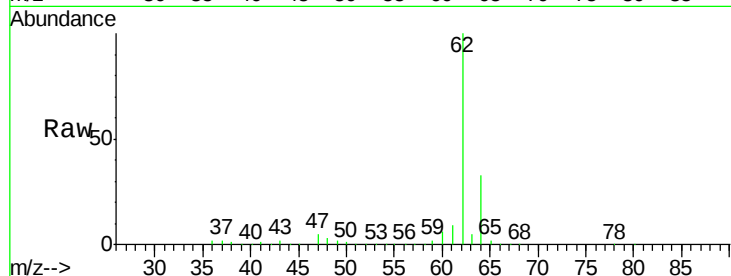
ETZ49

Tot Ion: 62 Resp: 4253771

Ion Ratio Lower Upper

62 100

64 33.0 23.7 44.1



#12

1,1-Dichloroethene

Concen: 2.055 ug/L

RT: 2.59 min Scan# 390

Delta R.T. 0.00 min

Lab File: VU040856.D

Acq: 20 Oct 2020 18:43

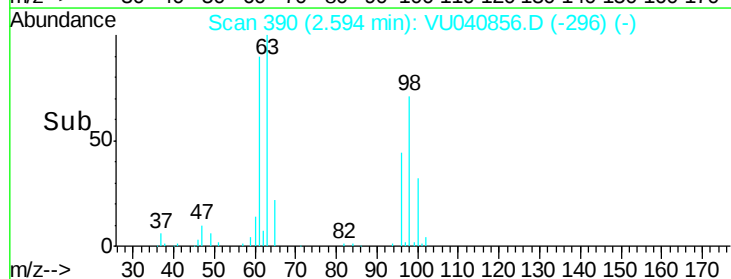
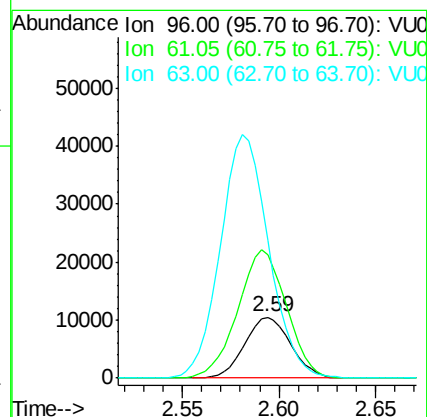
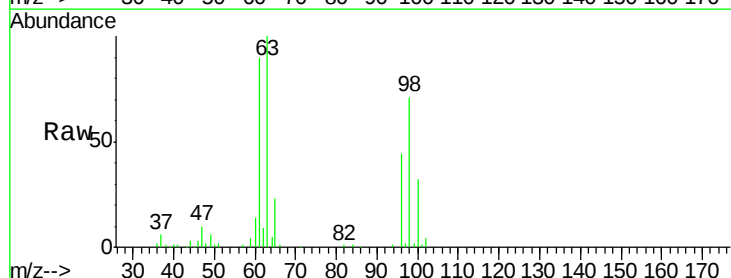
Tgt Ion: 96 Resp: 17393

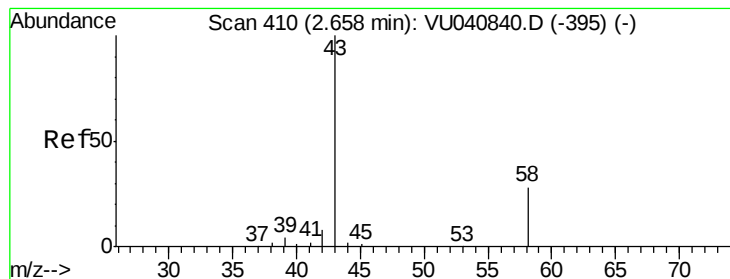
Ion Ratio Lower Upper

96 100

61 204.1 128.8 239.2

63 227.5 84.6 157.2#





#13

Acetone

Concen: 1.834 ug/L

RT: 2.66 min Scan# 409

Delta R.T. -0.00 min

Lab File: VU040856.D

Acq: 20 Oct 2020 18:43

Instrument :

MSVOA_U

ClientSampleId :

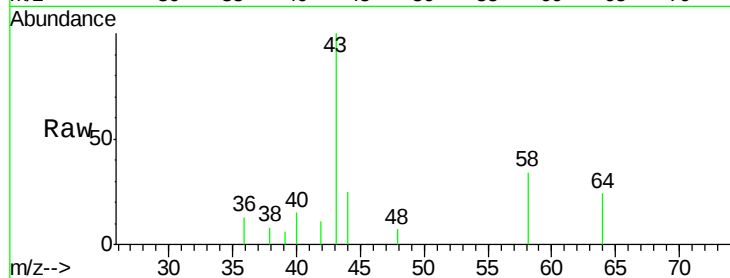
ETZ49

Tot Ion: 43 Resp: 4471

Ion Ratio Lower Upper

43 100

58 27.1 0.0 60.6



Abundance Ion 43.05 (42.75 to 43.75): VU040840.D (-395) (-)

Ion 58.05 (57.75 to 58.75): VU040840.D (-395) (-)

2.66

1500

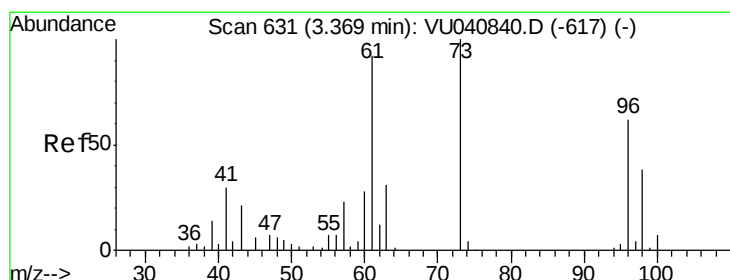
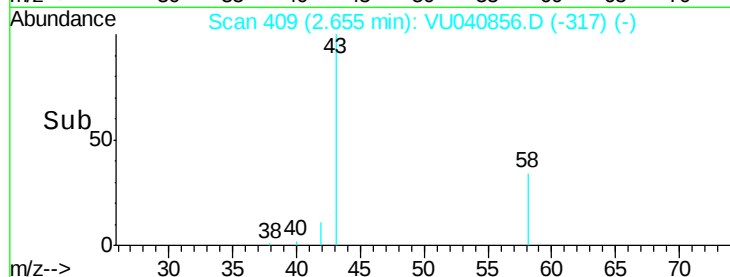
1000

500

0

Time-->

2.60 2.65 2.70 2.75



#18

trans-1,2-Dichloroethene

Concen: 6.190 ug/L

RT: 3.37 min Scan# 632

Delta R.T. 0.00 min

Lab File: VU040856.D

Acq: 20 Oct 2020 18:43

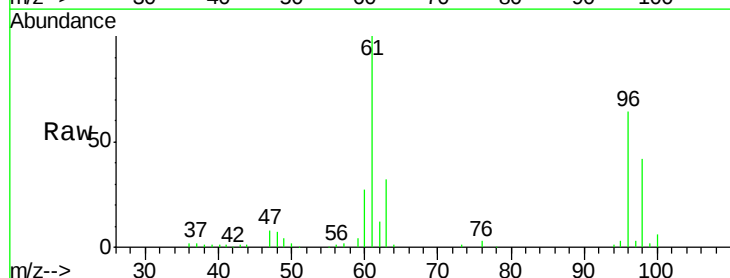
Tgt Ion: 96 Resp: 54839

Ion Ratio Lower Upper

96 100

61 157.1 105.9 196.7

98 66.0 43.8 81.3



Abundance Ion 96.00 (95.70 to 96.70): VU040840.D (-617) (-)

Ion 61.05 (60.75 to 61.75): VU040840.D (-617) (-)

Ion 97.95 (97.65 to 98.65): VU040840.D (-617) (-)

3.37

50000

40000

30000

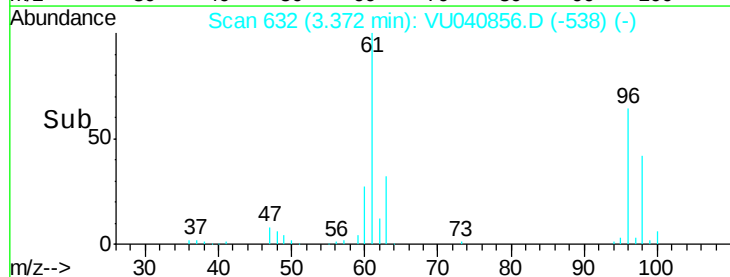
20000

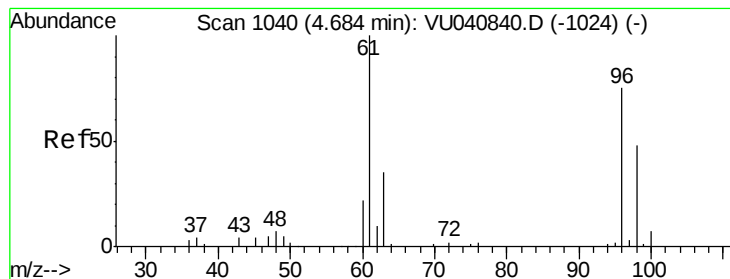
10000

0

Time-->

3.30 3.35 3.40 3.45



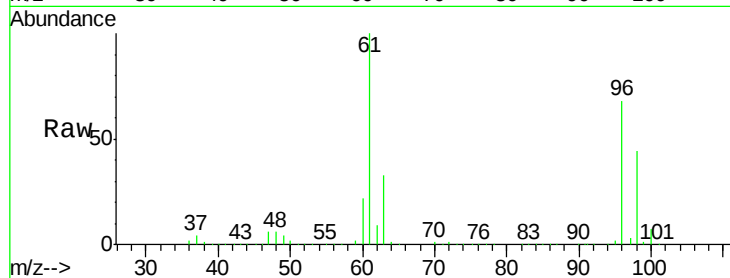


#22

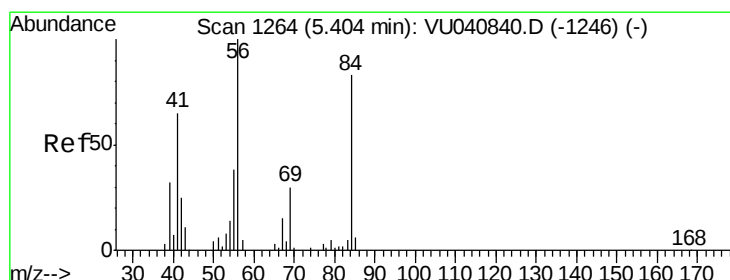
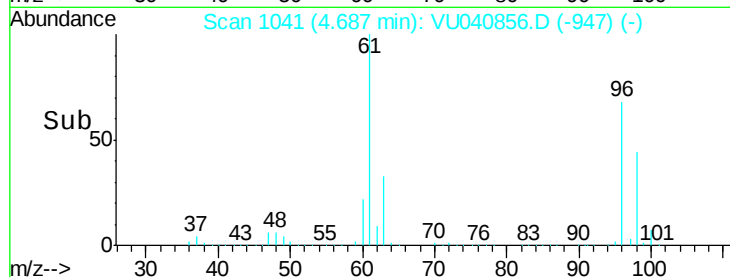
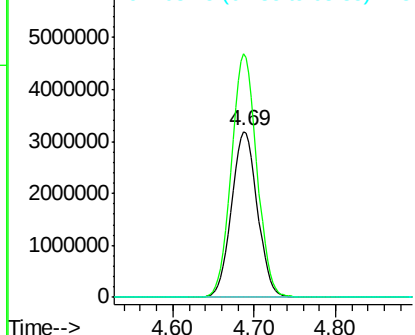
cis-1,2-Dichloroethene
 Concen: 740.324 ug/L
 RT: 4.69 min Scan# 1041
 Delta R.T. 0.00 min
 Lab File: VU040856.D
 Acq: 20 Oct 2020 18:43

Instrument :
 MSVOA_U
 ClientSampleId :
 ETZ49

Tot Ion: 96 Resp: 7072426
 Ion Ratio Lower Upper
 96 100
 61 147.1 99.8 185.4
 68 0.0 0.0 0.0



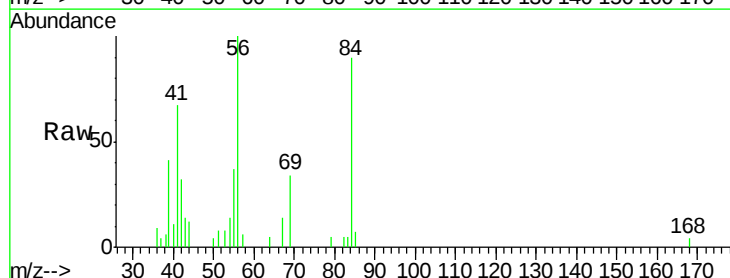
Abundance Ion 96.00 (95.70 to 96.70): VU0
 Ion 61.05 (60.75 to 61.75): VU0
 Ion 68.15 (67.85 to 68.85): VU0



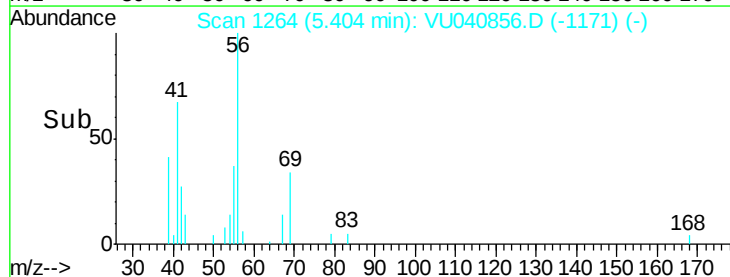
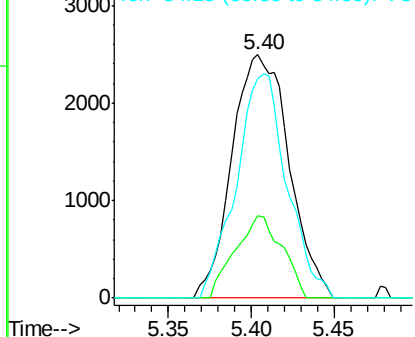
#30

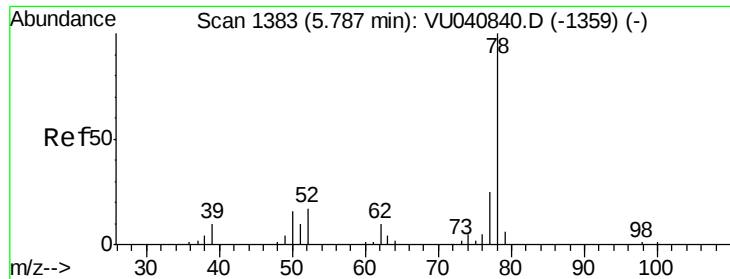
Cyclohexane
 Concen: 0.400 ug/L
 RT: 5.40 min Scan# 1264
 Delta R.T. -0.00 min
 Lab File: VU040856.D
 Acq: 20 Oct 2020 18:43

Tgt Ion: 56 Resp: 5974
 Ion Ratio Lower Upper
 56 100
 69 27.5 23.8 35.8
 84 81.9 64.0 96.0



Abundance Ion 56.10 (55.80 to 56.80): VU0
 Ion 69.15 (68.85 to 69.85): VU0
 Ion 84.15 (83.85 to 84.85): VU0





#33

Benzene

Concen: 0.089 ug/L

RT: 5.79 min Scan# 1383

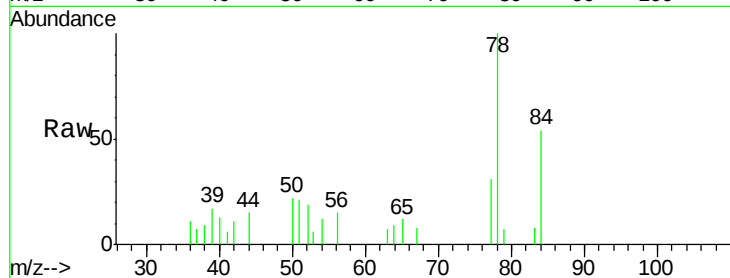
Delta R.T. -0.00 min

Lab File: VU040856.D

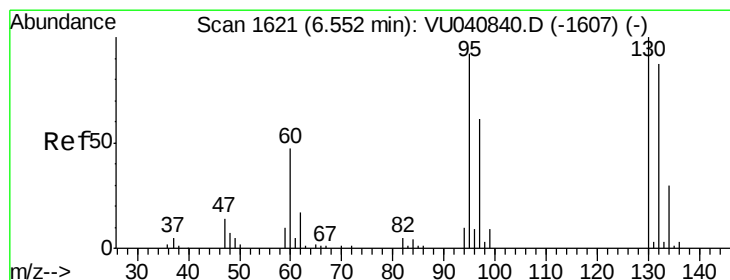
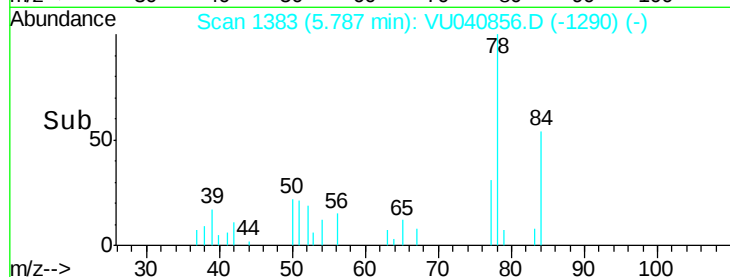
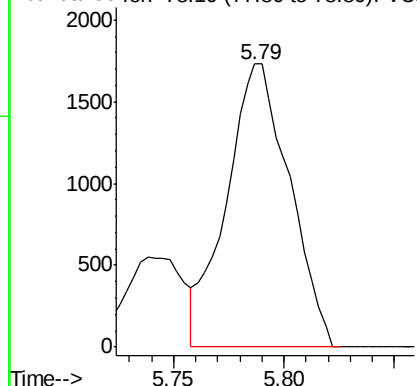
Acq: 20 Oct 2020 18:43

Instrument :
MSVOA_U
ClientSampled :
ETZ49

Tgt Ion: 78 Resp: 3433



Abundance Ion 78.10 (77.80 to 78.80): VU0



#34

Trichloroethene

Concen: 4.999 ug/L

RT: 6.56 min Scan# 1622

Delta R.T. 0.00 min

Lab File: VU040856.D

Acq: 20 Oct 2020 18:43

Tgt Ion: 95 Resp: 50213

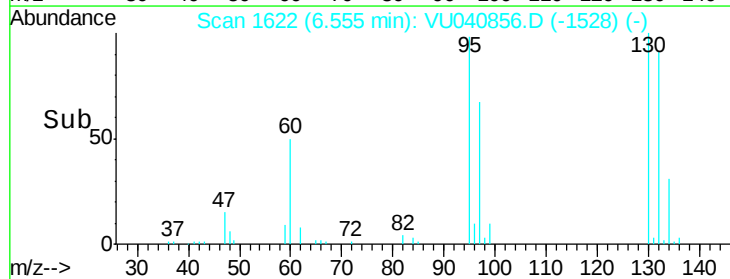
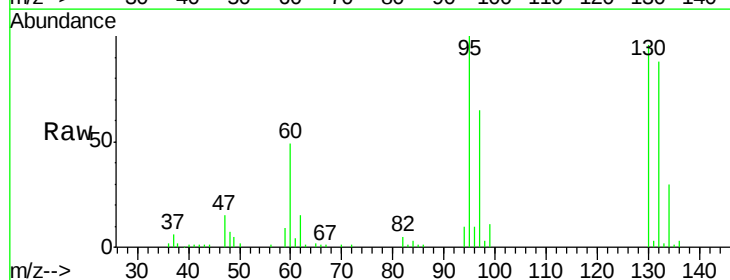
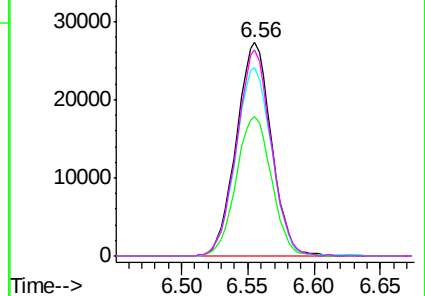
Ion	Ratio	Lower	Upper
95	100		
97	65.1	45.5	84.5
132	87.9	67.5	125.4
130	96.5	69.9	129.9

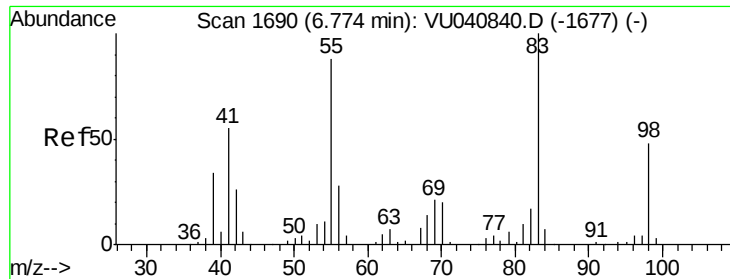
Abundance Ion 95.00 (94.70 to 95.70): VU0

Ion 96.95 (96.65 to 97.65): VU0

Ion 131.95 (131.65 to 132.65): VU0

Ion 129.95 (129.65 to 130.65): VU0

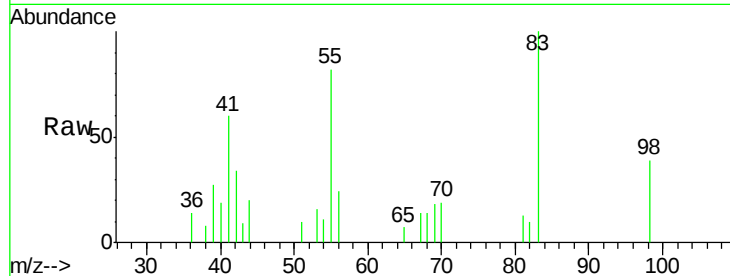




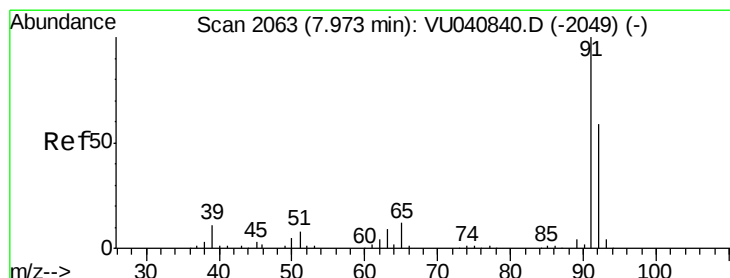
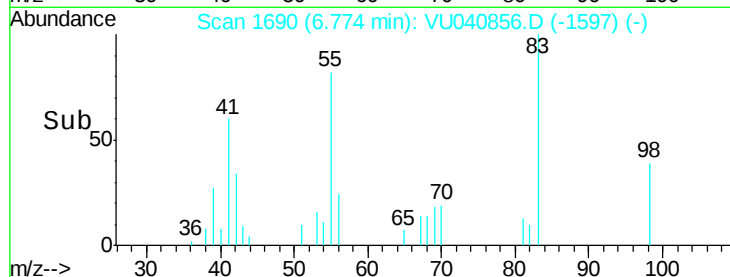
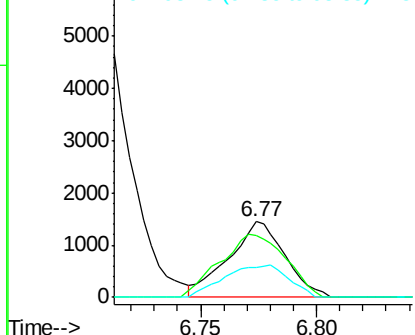
#35
Methvlcvclohexane
Concen: 0.172 ug/L
RT: 6.77 min Scan# 1690
Delta R.T. -0.00 min
Lab File: VU040856.D
Acq: 20 Oct 2020 18:43

Instrument :
MSVOA_U
ClientSampleId :
ETZ49

Tot Ion: 83 Resp: 2451
Ion Ratio Lower Upper
83 100
55 97.0 70.7 106.1
98 48.1 38.4 57.6

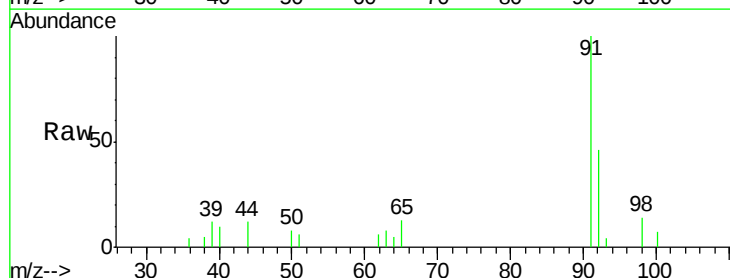


Abundance Ion 83.15 (82.85 to 83.85): VU0
Ion 55.10 (54.80 to 55.80): VU0
Ion 98.15 (97.85 to 98.85): VU0

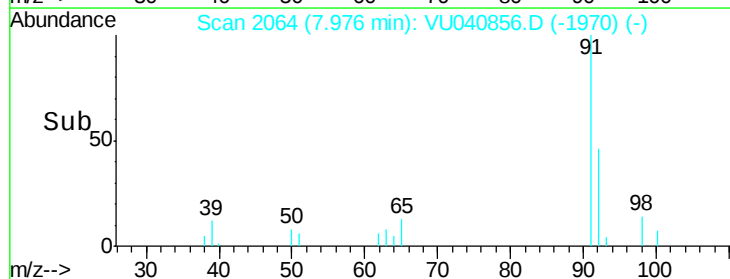
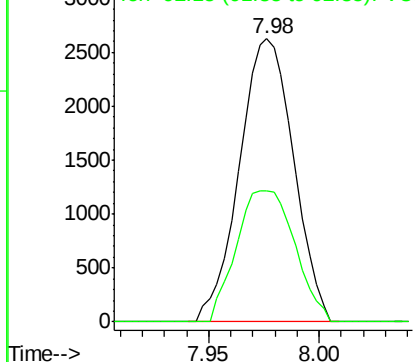


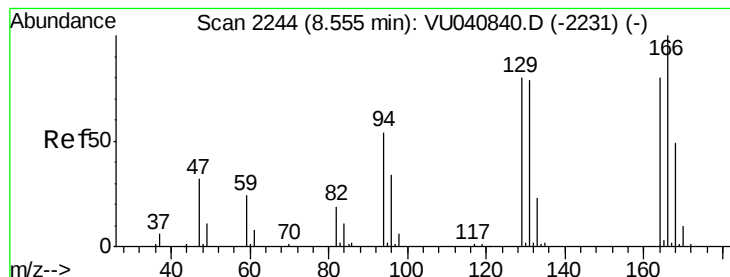
#42
Toluene
Concen: 0.113 ug/L
RT: 7.98 min Scan# 2064
Delta R.T. 0.00 min
Lab File: VU040856.D
Acq: 20 Oct 2020 18:43

Tgt Ion: 91 Resp: 4472
Ion Ratio Lower Upper
91 100
92 46.1 40.2 74.6



Abundance Ion 91.15 (90.85 to 91.85): VU0
Ion 92.15 (91.85 to 92.85): VU0





#47

Tetrachloroethene

Concen: 11.675 ug/L

RT: 8.56 min Scan# 2245

Delta R.T. 0.00 min

Lab File: VU040856.D

Acq: 20 Oct 2020 18:43

Instrument :

MSVOA_U

ClientSampleId :

ETZ49

Tot Ion:164 Resp: 83668

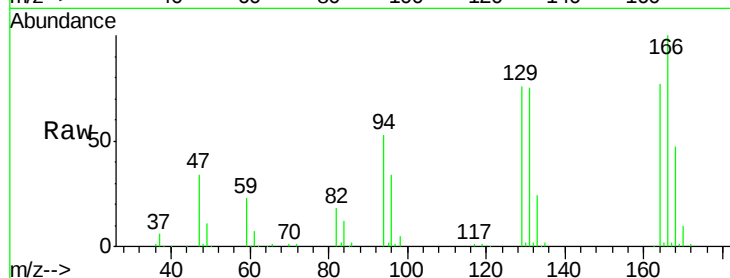
Ion Ratio Lower Upper

164 100

129 98.5 68.8 127.8

131 96.7 66.7 123.9

166 129.2 83.9 155.7

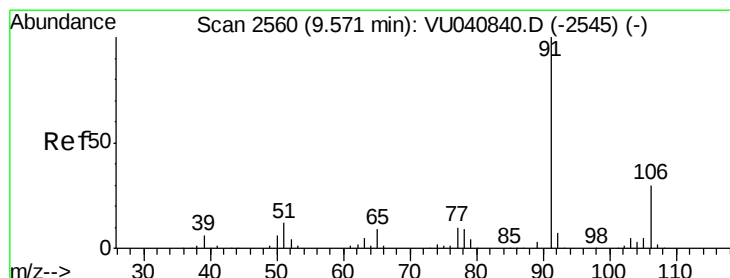
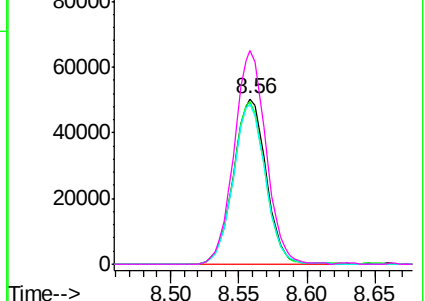
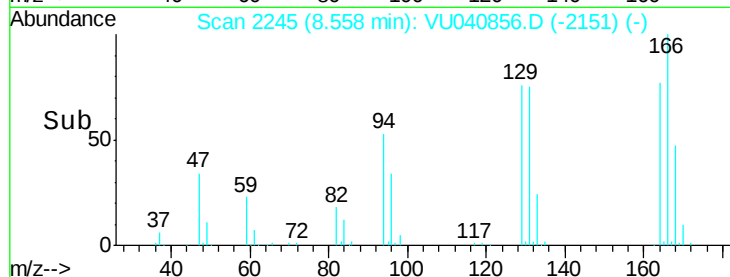


Abundance Ion 163.90 (163.60 to 164.60): V

Ion 128.95 (128.65 to 129.65): V

Ion 130.95 (130.65 to 131.65): V

Ion 165.90 (165.60 to 166.60): V



#52

Ethylbenzene

Concen: 0.067 ug/L

RT: 9.57 min Scan# 2561

Delta R.T. 0.00 min

Lab File: VU040856.D

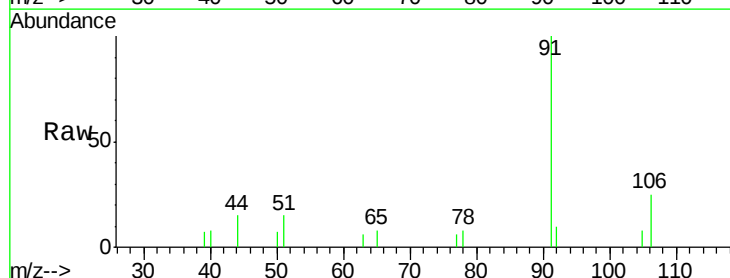
Acq: 20 Oct 2020 18:43

Tgt Ion: 91 Resp: 2873

Ion Ratio Lower Upper

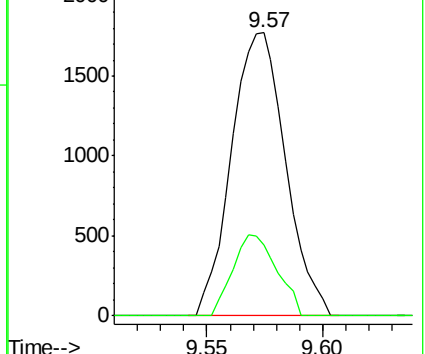
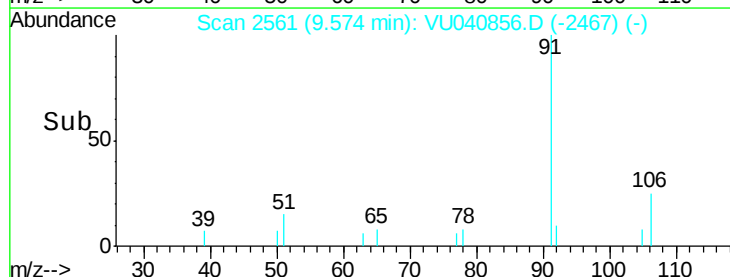
91 100

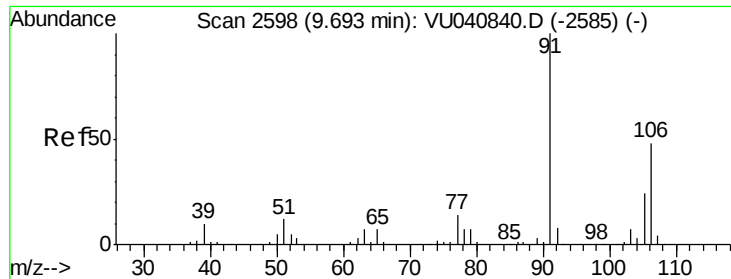
106 24.9 20.7 38.5



Abundance Ion 91.15 (90.85 to 91.85): VU0

Ion 106.15 (105.85 to 106.85): V





#53

m,p-Xylene

Concen: 0.183 ug/L

RT: 9.69 min Scan# 2598

Delta R.T. -0.00 min

Lab File: VU040856.D

Acq: 20 Oct 2020 18:43

Instrument :

MSVOA_U

ClientSampleId :

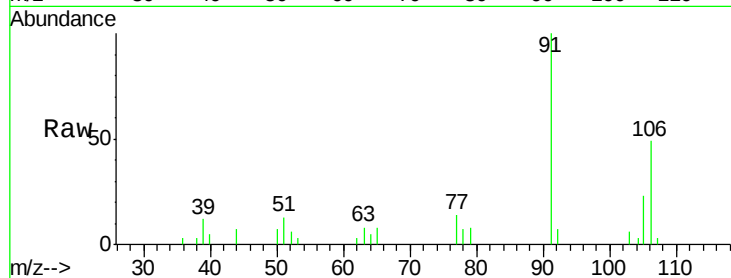
ETZ49

Tot Ion:106 Resp: 2851

Ion Ratio Lower Upper

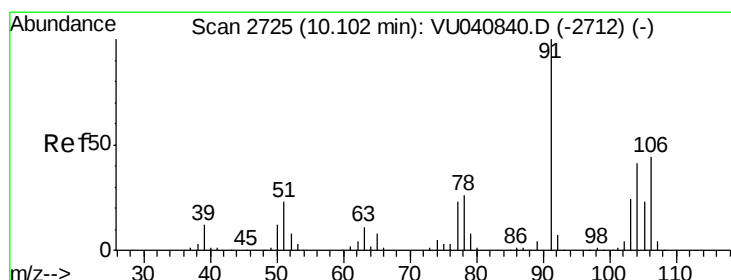
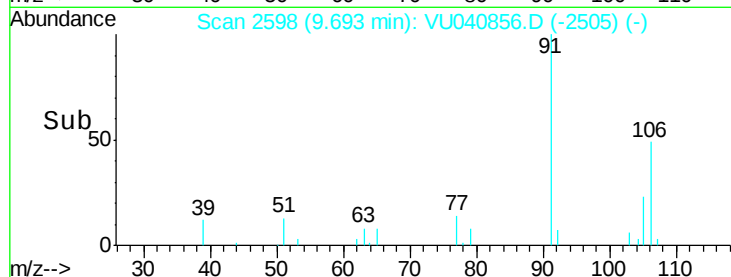
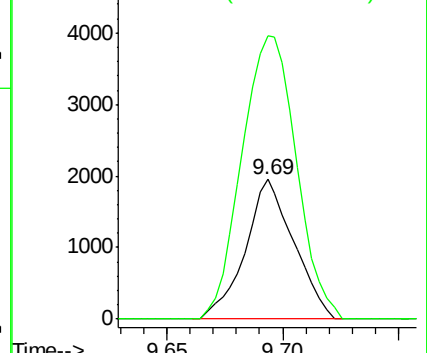
106 100

91 202.6 148.5 275.7



Abundance Ion 106.15 (105.85 to 106.85): V

Ion 91.15 (90.85 to 91.85): VU0



#54

o-Xylene

Concen: 0.069 ug/L

RT: 10.10 min Scan# 2725

Delta R.T. -0.00 min

Lab File: VU040856.D

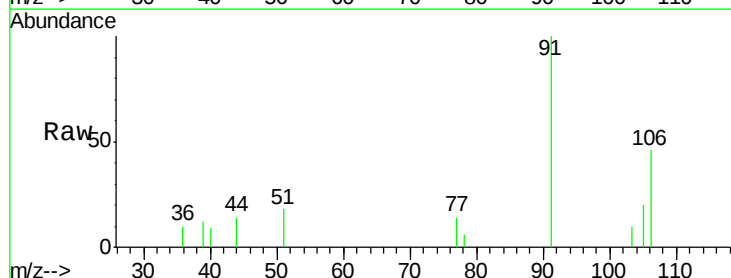
Acq: 20 Oct 2020 18:43

Tgt Ion:106 Resp: 1030

Ion Ratio Lower Upper

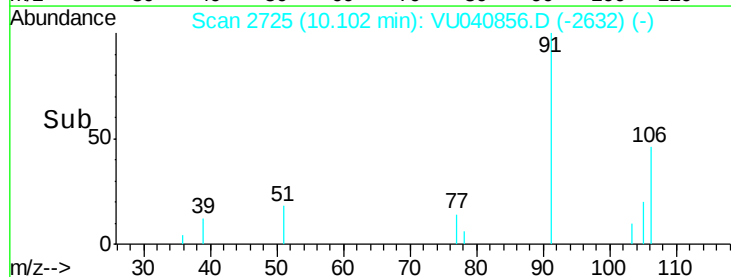
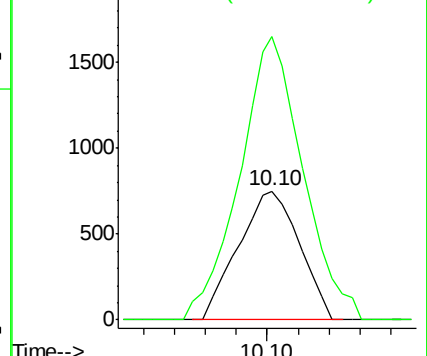
106 100

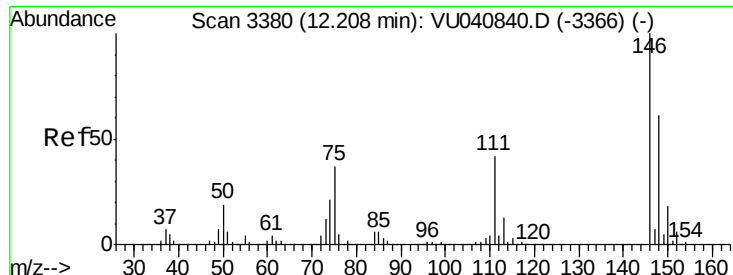
91 219.7 160.2 297.4



Abundance Ion 106.15 (105.85 to 106.85): V

Ion 91.15 (90.85 to 91.85): VU0





#65

1,2-Dichlorobenzene

Concen: 0.103 ug/L

RT: 12.20 min Scan# 3379

Delta R.T. -0.00 min

Lab File: VU040856.D

Acq: 20 Oct 2020 18:43

Instrument :

MSVOA_U

ClientSampleId :

ETZ49

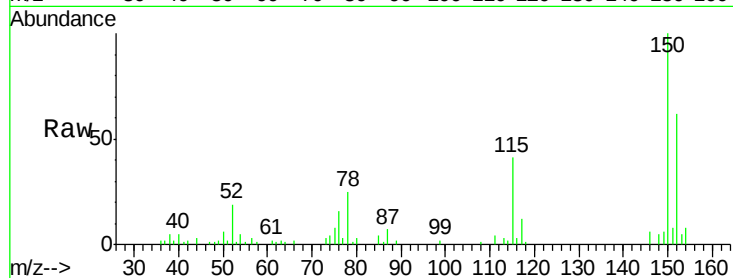
Tot Ion:146 Resp: 1709

Ion Ratio Lower Upper

146 100

111 62.1 34.4 51.6#

148 73.5 50.0 75.0



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

