

Data Path : Z:\VOASRV\HPCHEM1\MSVOA U\DATA\U110920\
 Data File : VU041153.D
 Acq On : 09 Nov 2020 20:00
 Operator : SY/MD
 Sample : L4646-20
 Misc : 25.0mL/MSVOA U/WATER
 ALS Vial : 22 Sample Multiplier: 1

Instrument :
 MSVOA_U
 ClientSampleId :
 GB0W4

Quant Time: Nov 10 01:15:15 2020
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_U\METHOD\SOMUTR102620WMA.M
 Quant Title : TRACE VOA SOM01.0
 QLast Update : Tue Nov 10 01:04:12 2020
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Difluorobenzene	6.26	114	52659	5.00	ug/L	0.00
28) Chlorobenzene-d5	9.42	117	50986	5.00	ug/L	0.00
60) 1,4-Dichlorobenzene-d4	11.81	152	21850	5.00	ug/L	0.00

System Monitoring Compounds

4) Vinyl Chloride-d3	1.60	65	16767	3.79	ug/L	0.00
Spiked Amount	5.000	Range	40 - 130	Recovery	=	75.80%
7) Chloroethane-d5	1.92	69	16721	4.92	ug/L	0.00
Spiked Amount	5.000	Range	65 - 130	Recovery	=	98.40%
11) 1,1-Dichloroethene-d2	2.58	63	27795	3.20	ug/L	0.00
Spiked Amount	5.000	Range	60 - 125	Recovery	=	64.00%
20) 2-Butanone-d5	4.66	46	99801	68.50	ug/L	0.00
Spiked Amount	50.000	Range	40 - 130	Recovery	=	137.00%#
24) Chloroform-d	5.08	84	45253	5.79	ug/L	0.00
Spiked Amount	5.000	Range	70 - 125	Recovery	=	115.80%
26) 1,2-Dichloroethane-d4	5.72	65	29252	6.03	ug/L	0.00
Spiked Amount	5.000	Range	70 - 130	Recovery	=	120.60%
32) Benzene-d6	5.74	84	79843	5.86	ug/L	0.00
Spiked Amount	5.000	Range	70 - 125	Recovery	=	117.20%
36) 1,2-Dichloropropane-d6	6.70	67	29337	6.61	ug/L	0.00
Spiked Amount	5.000	Range	60 - 140	Recovery	=	132.20%
41) Toluene-d8	7.91	98	65601	5.31	ug/L	0.00
Spiked Amount	5.000	Range	70 - 130	Recovery	=	106.20%
43) trans-1,3-Dichloropropene-	8.19	79	10989	5.71	ug/L	0.00
Spiked Amount	5.000	Range	55 - 130	Recovery	=	114.20%
46) 2-Hexanone-d5	8.64	63	70567	68.11	ug/L	0.00
Spiked Amount	50.000	Range	45 - 130	Recovery	=	136.22%#
57) 1,1,2,2-Tetrachloroethane-	10.75	84	25697	6.23	ug/L	0.00
Spiked Amount	5.000	Range	65 - 120	Recovery	=	124.60%#
64) 1,2-Dichlorobenzene-d4	12.19	152	28331	7.39	ug/L	0.00
Spiked Amount	5.000	Range	80 - 120	Recovery	=	147.80%#

Target Compounds

Target Compounds	R.T.	QIon	Response	Conc	Units	Ovalue
5) Vinyl chloride	1.61	62	2263	0.458	ug/L #	81
12) 1,1-Dichloroethene	2.59	96	239	0.064	ug/L #	1
13) Acetone	2.66	43	1651	1.658	ug/L	96
15) Methyl Acetate	3.05	43	1514	0.664	ug/L #	53
17) Methyl tert-butyl Ether	3.38	73	1821	0.190	ug/L #	83
18) trans-1,2-Dichloroethene	3.37	96	3074	0.813	ug/L	96
19) 1,1-Dichloroethane	3.89	63	532	0.070	ug/L #	79
22) cis-1,2-Dichloroethene	4.69	96	239997	61.550	ug/L	97
25) Chloroform	5.11	83	3080	0.406	ug/L	93
27) 1,2-Dichloroethane	5.81	62	9999	1.771	ug/L	96
29) 1,1,1-Trichloroethane	5.34	97	563	0.090	ug/L #	54
30) Cyclohexane	5.41	56	1064	0.173	ug/L #	85
31) Carbon tetrachloride	5.55	117	481	0.087	ug/L	95
33) Benzene	5.79	78	33247	2.182	ug/L	100
34) Trichloroethene	6.56	95	216288	55.787	ug/L	98
35) Methylcyclohexane	6.71	83	7133	1.233	ug/L #	15
37) 1,2-Dichloropropane	6.70	63	3347	0.812	ug/L #	86

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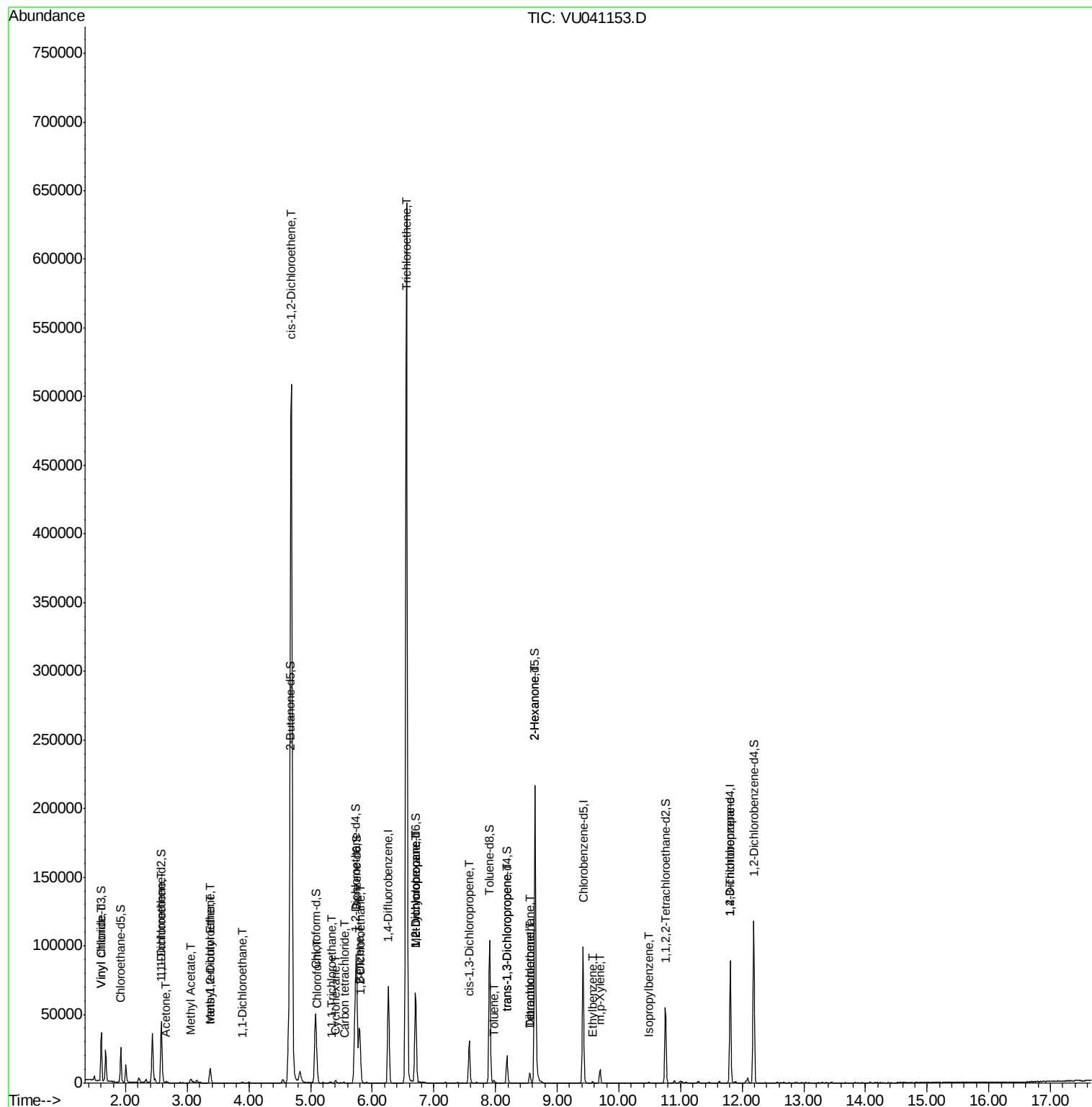
Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
39) cis-1,3-Dichloropropene	7.57	75	838	0.148	ug/L #	61
42) Toluene	7.97	91	1419	0.092	ug/L #	70
44) trans-1,3-Dichloropropene	8.19	75	509	0.096	ug/L	98
47) Tetrachloroethene	8.56	164	1660	0.582	ug/L	90
48) 2-Hexanone	8.64	43	10161	4.106	ug/L #	69
49) Dibromochloromethane	8.56	129	1718	0.482	ug/L #	11
52) Ethylbenzene	9.57	91	920	0.057	ug/L	93
53) m,p-Xylene	9.69	106	2770	0.467	ug/L	100
56) Isopropylbenzene	10.48	105	705	0.047	ug/L #	89
59) 1,2,3-Trichloropropane	11.81	75	2681	0.873	ug/L #	77

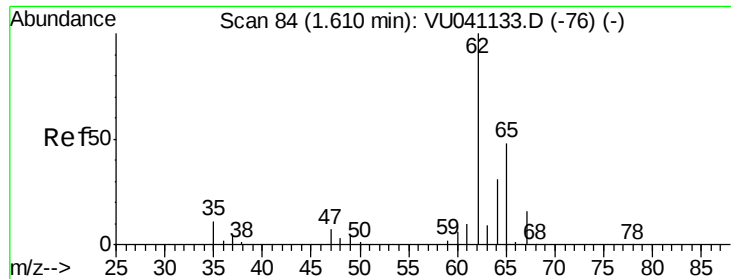
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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#5

Vinyl chloride

Concen: 0.458 ug/L

RT: 1.61 min Scan# 84

Delta R.T. -0.00 min

Lab File: VU041153.D

Acq: 09 Nov 2020 20:00

Instrument :

MSVOA_U

ClientSampled :

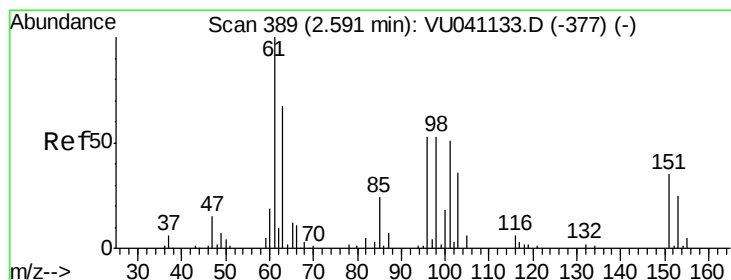
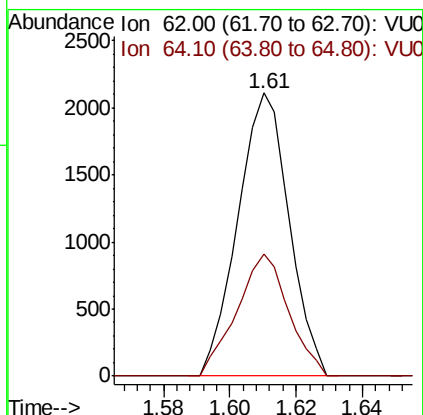
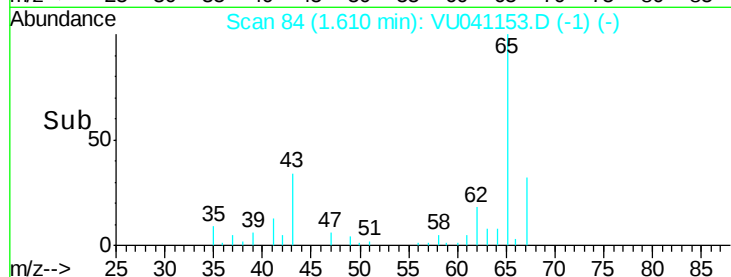
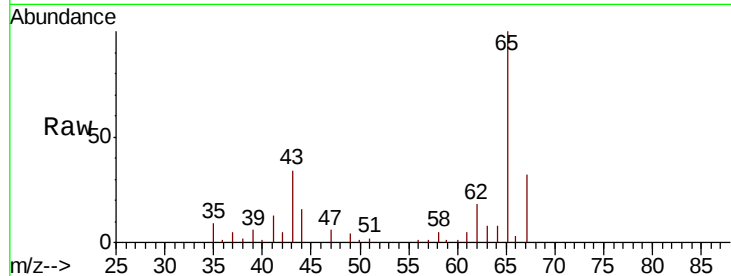
GB0W4

Tot Ion: 62 Resp: 2263

Ion Ratio Lower Upper

62 100

64 43.3 22.7 42.3#



#12

1,1-Dichloroethene

Concen: 0.064 ug/L

RT: 2.59 min Scan# 390

Delta R.T. 0.00 min

Lab File: VU041153.D

Acq: 09 Nov 2020 20:00

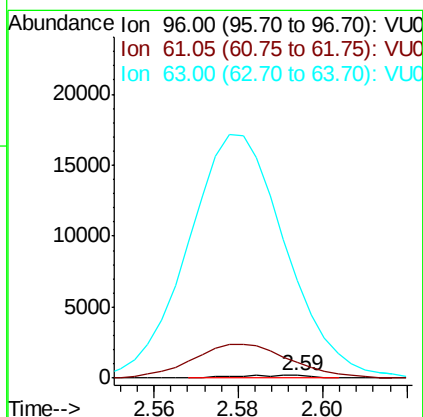
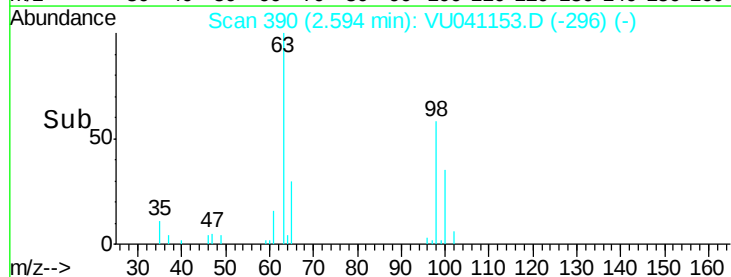
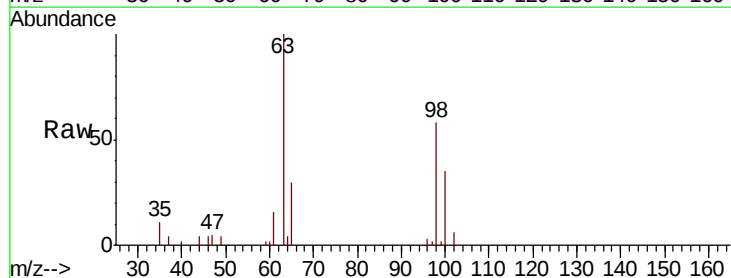
Tgt Ion: 96 Resp: 239

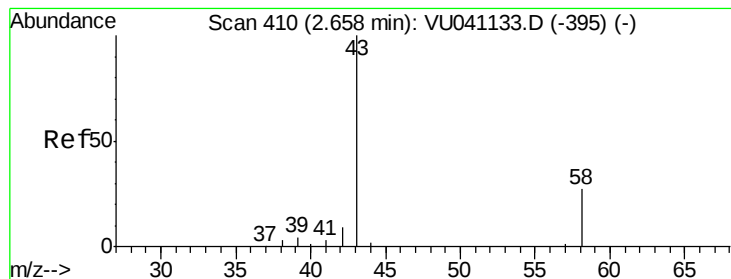
Ion Ratio Lower Upper

96 100

61 571.2 134.3 249.5#

63 3590.1 95.0 176.4#





#13

Acetone

Concen: 1.658 ug/L

RT: 2.66 min Scan# 409

Delta R.T. -0.00 min

Lab File: VU041153.D

Acq: 09 Nov 2020 20:00

Instrument :

MSVOA_U

ClientSampleId :

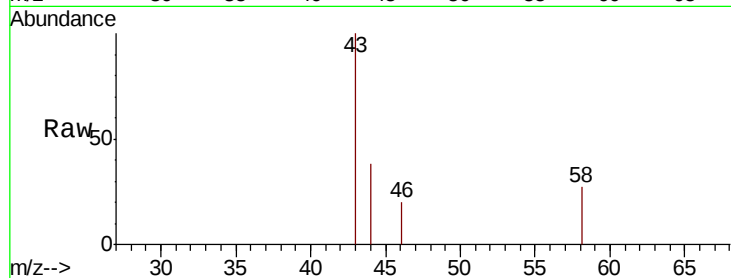
GB0W4

Tot Ion: 43 Resp: 1651

Ion Ratio Lower Upper

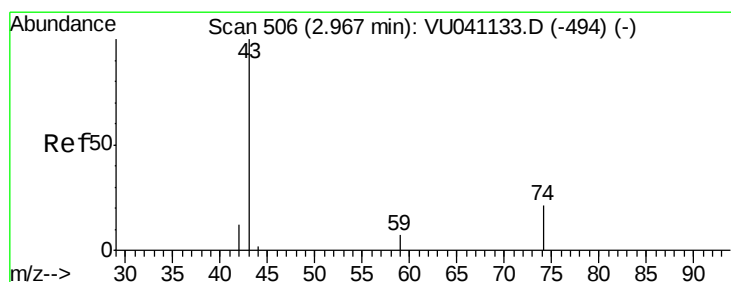
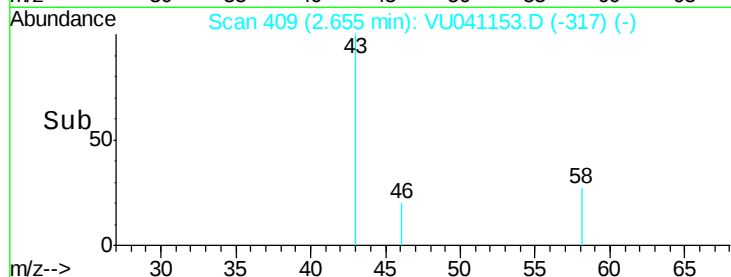
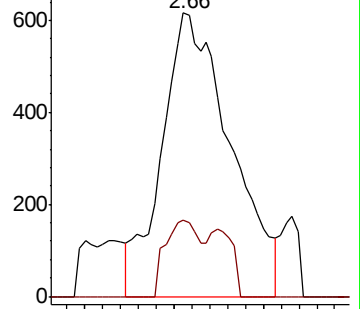
43 100

58 14.2 0.0 25.4



Abundance Ion 43.05 (42.75 to 43.75): VU0

Ion 58.05 (57.75 to 58.75): VU0



#15

Methyl Acetate

Concen: 0.664 ug/L

RT: 3.05 min Scan# 533

Delta R.T. 0.09 min

Lab File: VU041153.D

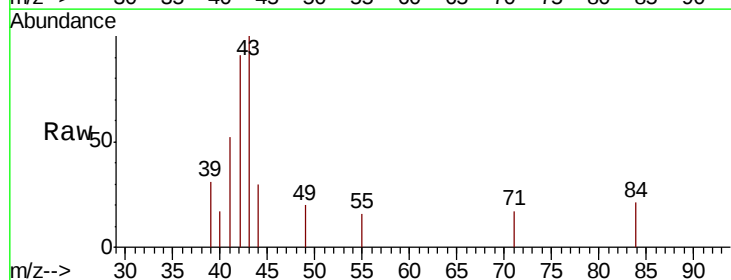
Acq: 09 Nov 2020 20:00

Tgt Ion: 43 Resp: 1514

Ion Ratio Lower Upper

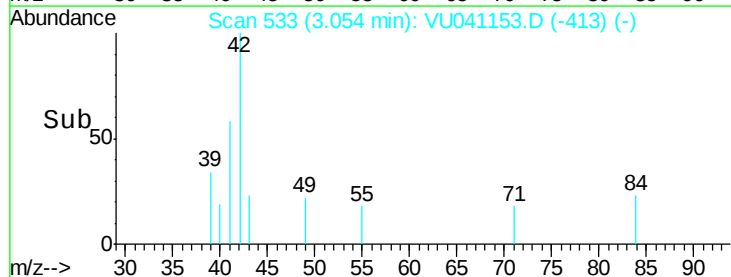
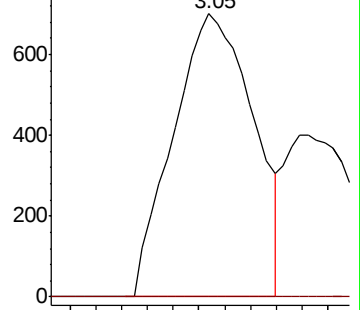
43 100

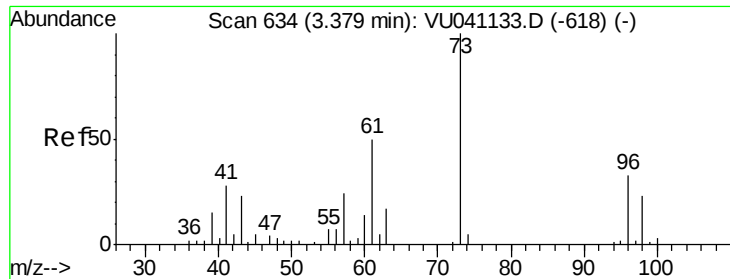
74 0.0 18.3 27.5#



Abundance Ion 43.05 (42.75 to 43.75): VU0

Ion 74.05 (73.75 to 74.75): VU0

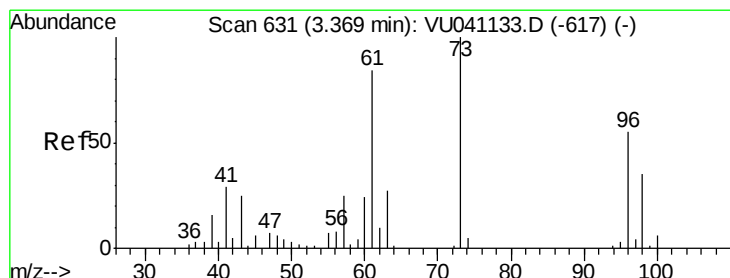
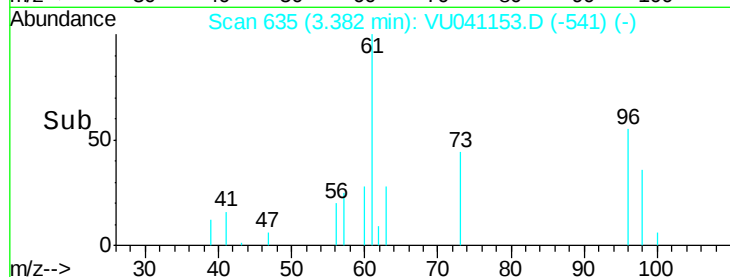
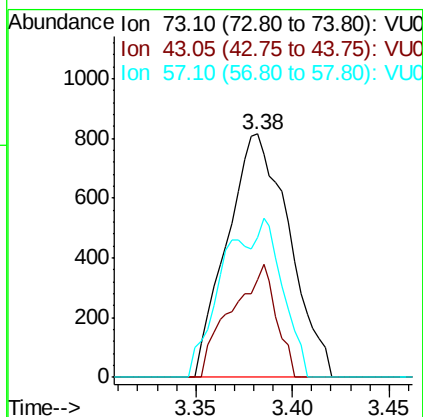
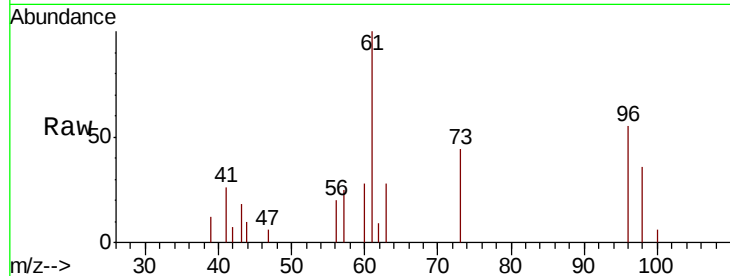




#17
Methvl tert-butvl Ether
Concen: 0.190 ug/L
RT: 3.38 min Scan# 635
Delta R.T. 0.00 min
Lab File: VU041153.D
Acq: 09 Nov 2020 20:00

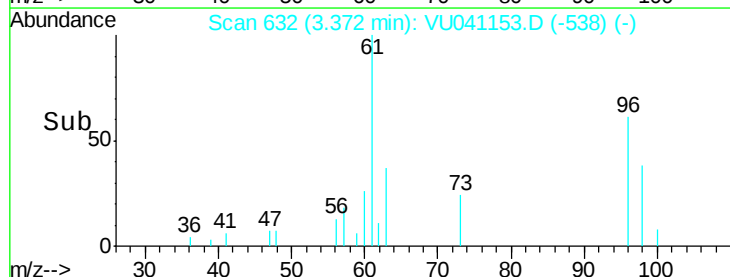
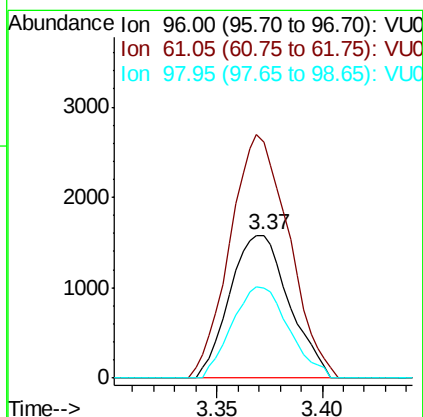
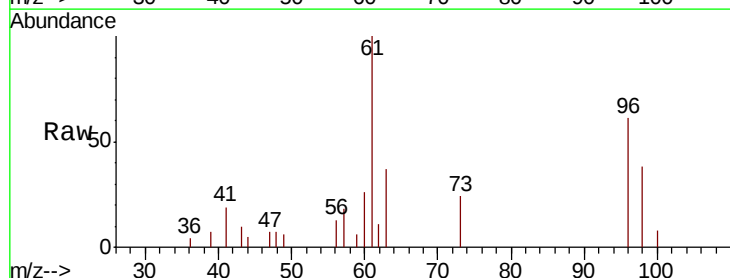
Instrument :
MSVOA_U
ClientSampled :
GB0W4

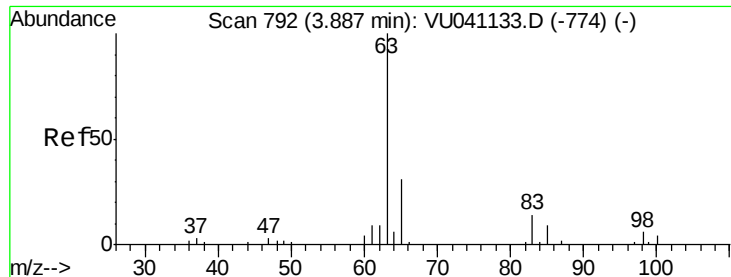
Tot Ion: 73 Resp: 1821
Ion Ratio Lower Upper
73 100
43 33.7 18.5 27.7#
57 28.7 18.4 27.6#



#18
trans-1,2-Dichloroethene
Concen: 0.813 ug/L
RT: 3.37 min Scan# 632
Delta R.T. 0.00 min
Lab File: VU041153.D
Acq: 09 Nov 2020 20:00

Tgt Ion: 96 Resp: 3074
Ion Ratio Lower Upper
96 100
61 165.1 110.9 205.9
98 63.2 45.4 84.2

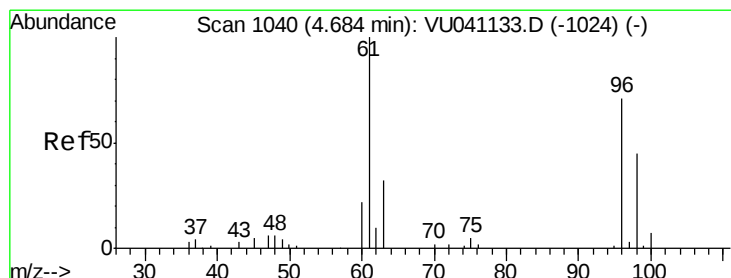
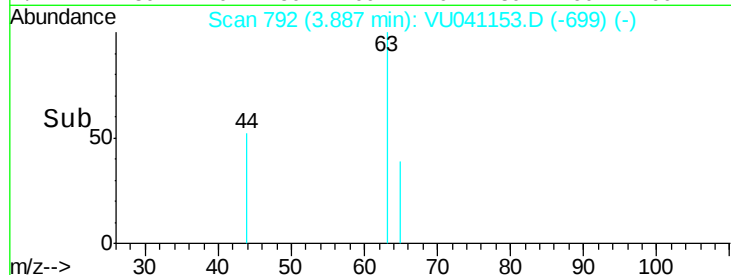
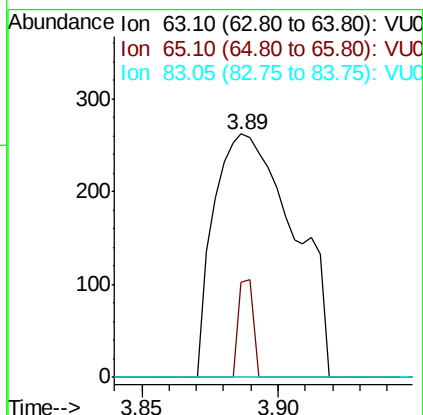
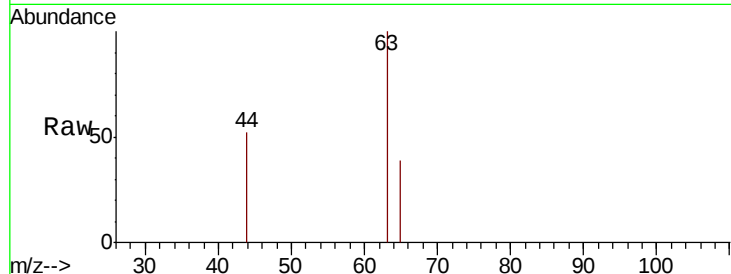




#19
 1,1-Dichloroethane
 Concen: 0.070 ug/L
 RT: 3.89 min Scan# 792
 Delta R.T. -0.00 min
 Lab File: VU041153.D
 Acq: 09 Nov 2020 20:00

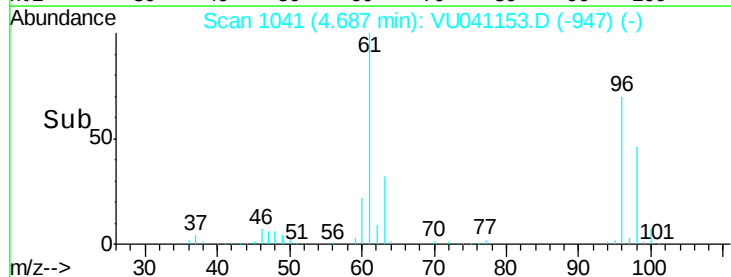
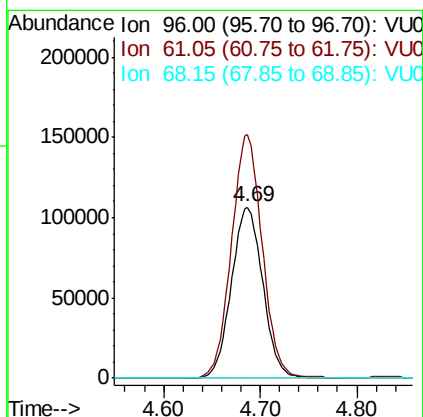
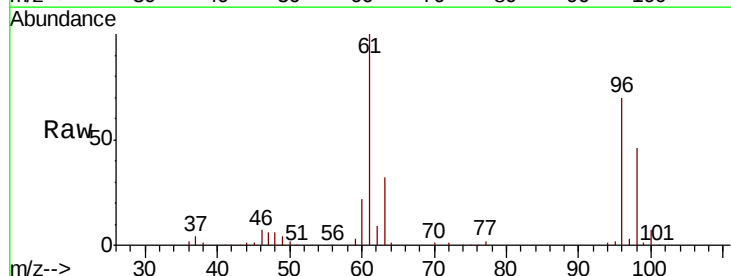
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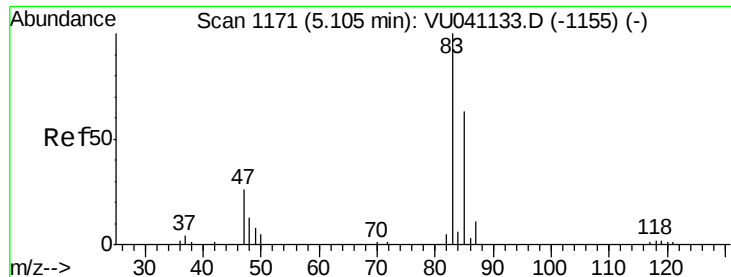
Tot Ion: 63 Resp: 532
 Ion Ratio Lower Upper
 63 100
 65 39.3 21.3 39.6
 83 0.0 8.8 16.3#



#22
 cis-1,2-Dichloroethene
 Concen: 61.550 ug/L
 RT: 4.69 min Scan# 1041
 Delta R.T. 0.00 min
 Lab File: VU041153.D
 Acq: 09 Nov 2020 20:00

Tgt Ion: 96 Resp: 239997
 Ion Ratio Lower Upper
 96 100
 61 142.3 97.2 180.4
 68 0.0 0.0 0.0

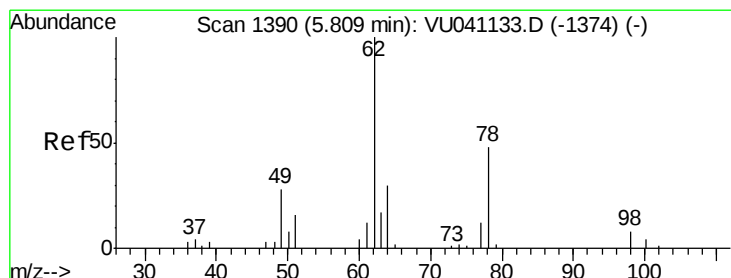
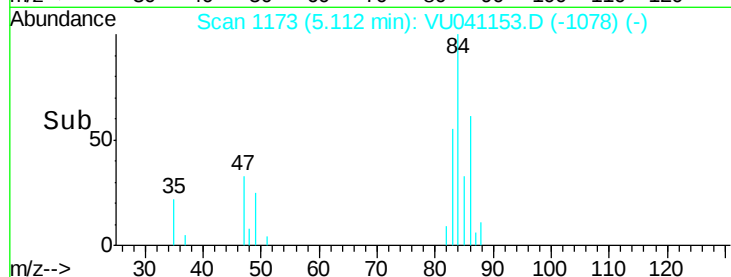
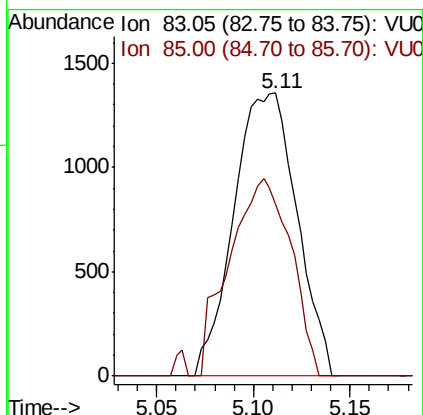
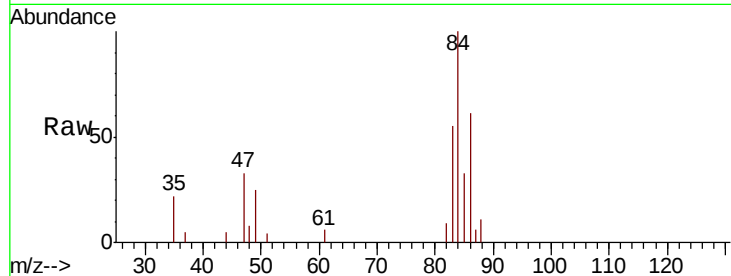




#25
Chloroform
Concen: 0.406 ug/L
RT: 5.11 min Scan# 1173
Delta R.T. 0.01 min
Lab File: VU041153.D
Acq: 09 Nov 2020 20:00

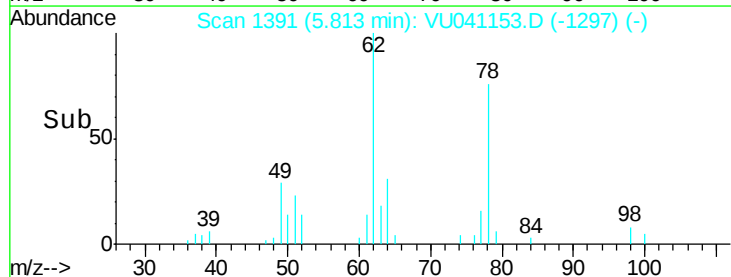
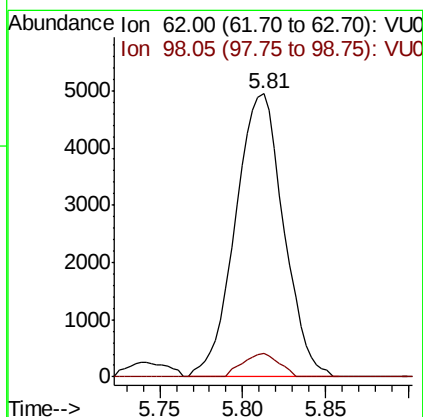
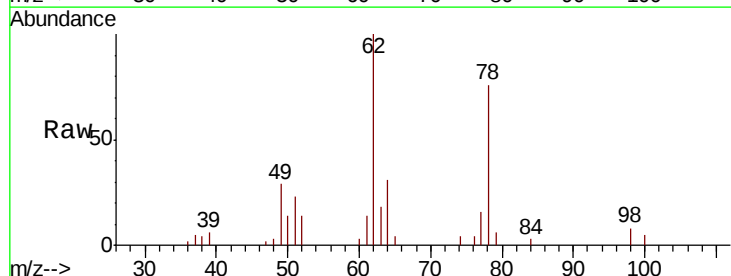
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GB0W4

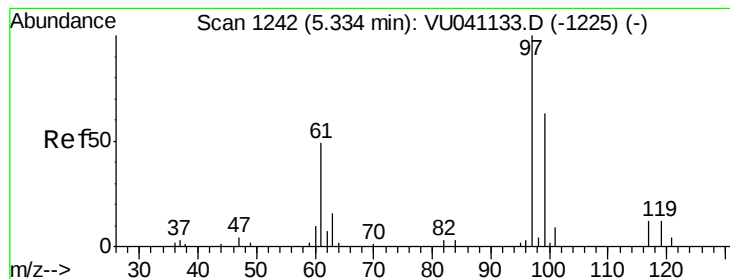
Tot Ion: 83 Resp: 3080
Ion Ratio Lower Upper
83 100
85 60.7 46.1 85.7



#27
1,2-Dichloroethane
Concen: 1.771 ug/L
RT: 5.81 min Scan# 1391
Delta R.T. 0.00 min
Lab File: VU041153.D
Acq: 09 Nov 2020 20:00

Tgt Ion: 62 Resp: 9999
Ion Ratio Lower Upper
62 100
98 8.2 7.6 11.4





#29

1,1,1-Trichloroethane

Concen: 0.090 ug/L

RT: 5.34 min Scan# 1245

Delta R.T. 0.01 min

Lab File: VU041153.D

Acq: 09 Nov 2020 20:00

Instrument :

MSVOA_U

ClientSampled :

GB0W4

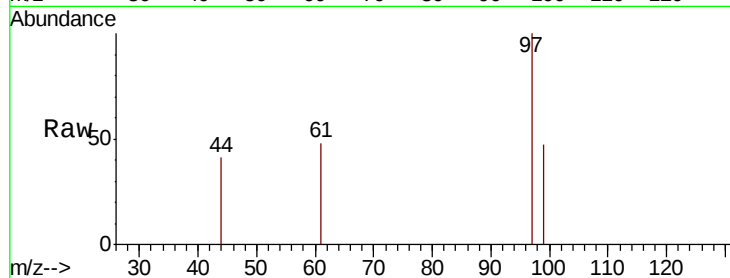
Tot Ion: 97 Resp: 563

Ion Ratio Lower Upper

97 100

99 19.5 53.4 80.0#

61 32.1 41.6 62.4#

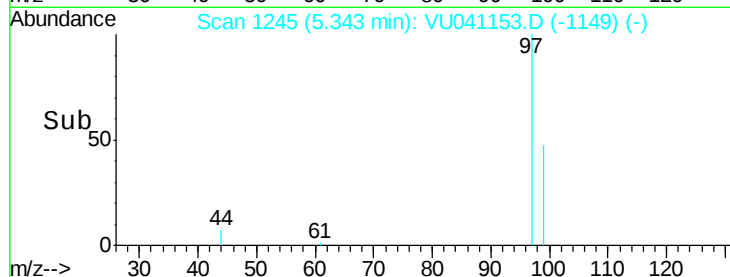


Abundance Ion 96.95 (96.65 to 97.65): VU0

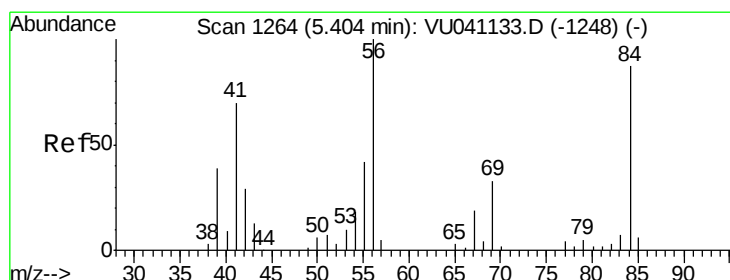
Ion 99.05 (98.75 to 99.75): VU0

Ion 61.05 (60.75 to 61.75): VU0

Time-->



Time-->



#30

Cyclohexane

Concen: 0.173 ug/L

RT: 5.41 min Scan# 1265

Delta R.T. 0.00 min

Lab File: VU041153.D

Acq: 09 Nov 2020 20:00

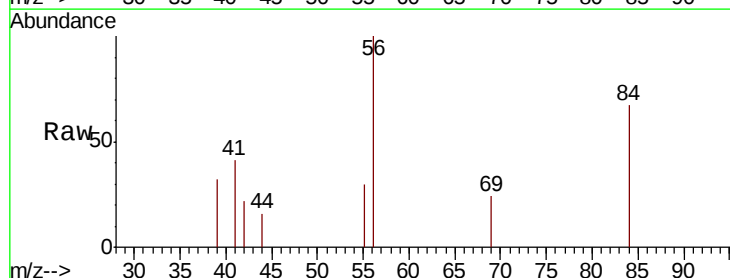
Tgt Ion: 56 Resp: 1064

Ion Ratio Lower Upper

56 100

69 13.3 22.8 34.2#

84 70.4 63.6 95.4

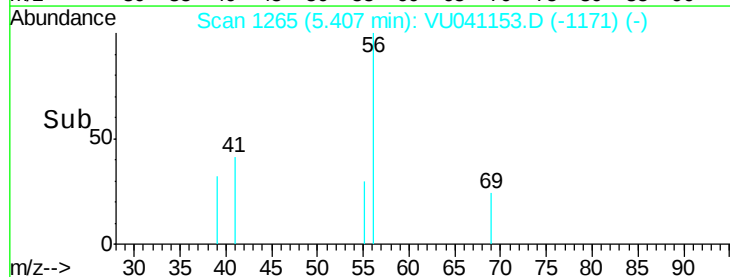


Abundance Ion 56.10 (55.80 to 56.80): VU0

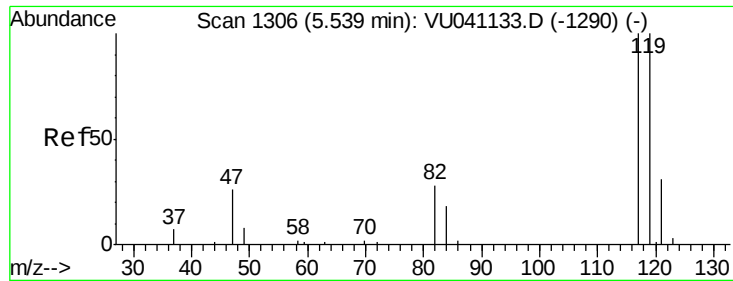
Ion 69.15 (68.85 to 69.85): VU0

Ion 84.15 (83.85 to 84.85): VU0

Time-->



Time-->



#31

Carbon tetrachloride

Concen: 0.087 ug/L

RT: 5.55 min Scan# 1309

Delta R.T. 0.01 min

Lab File: VU041153.D

Acq: 09 Nov 2020 20:00

Instrument :

MSVOA_U

ClientSampleId :

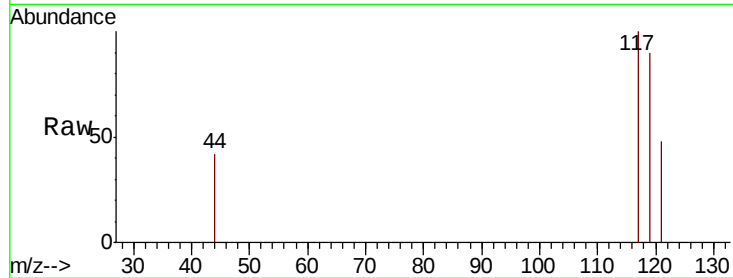
GB0W4

Tot Ion:117 Resp: 481

Ion Ratio Lower Upper

117 100

119 89.8 76.1 114.1



Abundance Ion 116.90 (116.60 to 117.60): V

Ion 118.90 (118.60 to 119.60): V

5.55

250

200

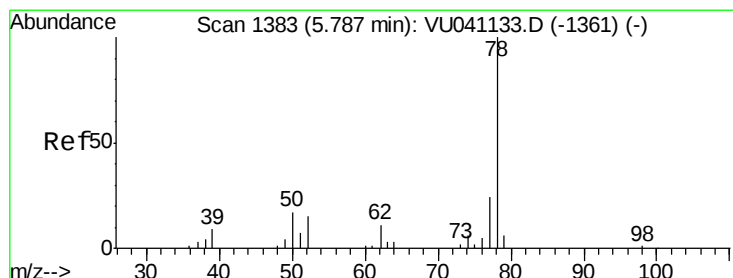
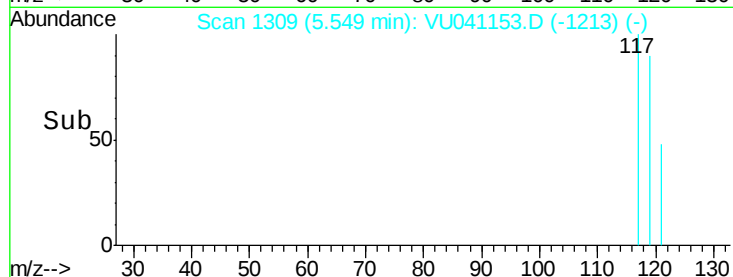
150

100

50

0

Time-->



#33

Benzene

Concen: 2.182 ug/L

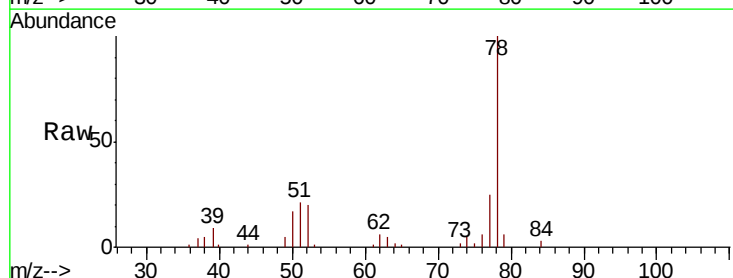
RT: 5.79 min Scan# 1383

Delta R.T. -0.00 min

Lab File: VU041153.D

Acq: 09 Nov 2020 20:00

Tgt Ion: 78 Resp: 33247



Abundance Ion 78.10 (77.80 to 78.80): VU0

5.79

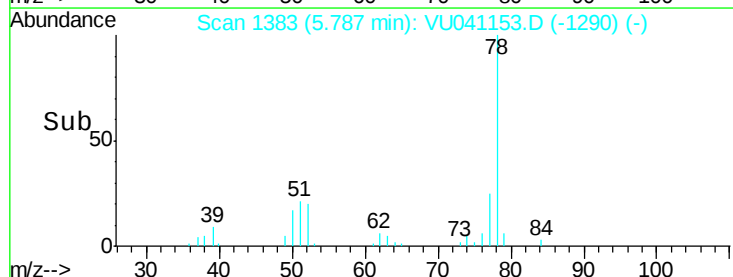
15000

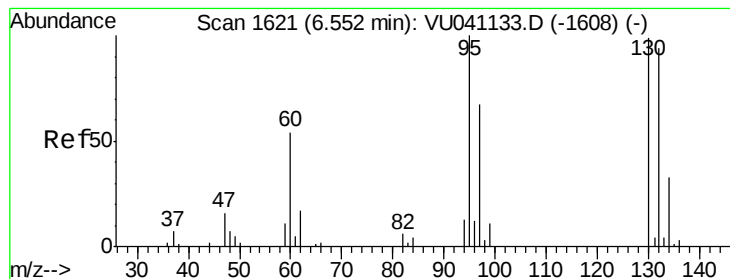
10000

5000

0

Time-->





#34

Trichloroethene

Concen: 55.787 ug/L

RT: 6.56 min Scan# 1622

Delta R.T. 0.00 min

Lab File: VU041153.D

Acq: 09 Nov 2020 20:00

Instrument :

MSVOA_U

ClientSampleId :

GB0W4

Tot Ion: 95 Resp: 216288

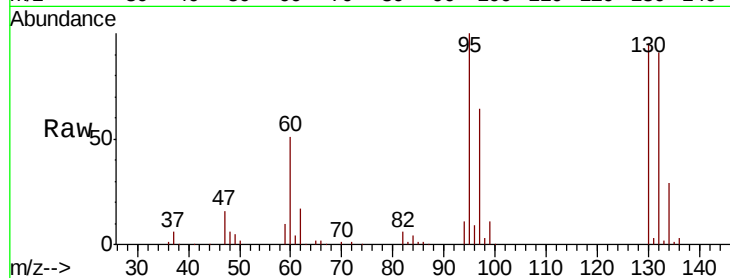
Ion Ratio Lower Upper

95 100

97 64.0 45.6 84.6

132 90.8 64.8 120.4

130 95.0 64.8 120.4

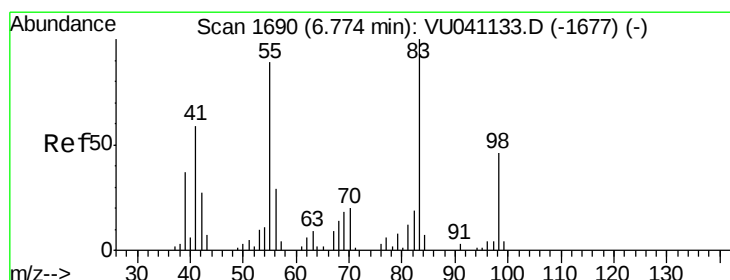
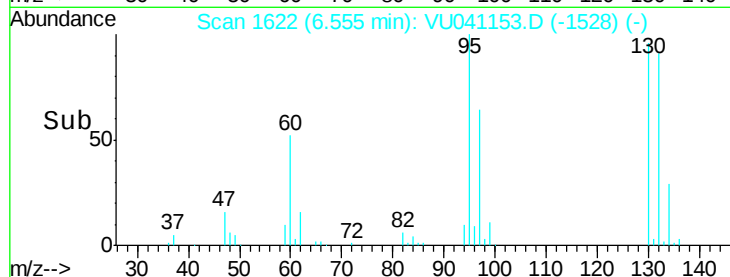
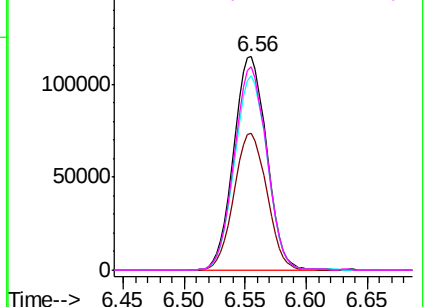


Abundance Ion 95.00 (94.70 to 95.70): VU0

Ion 96.95 (96.65 to 97.65): VU0

Ion 131.95 (131.65 to 132.65): V

Ion 129.95 (129.65 to 130.65): V



#35

Methylcyclohexane

Concen: 1.233 ug/L

RT: 6.71 min Scan# 1669

Delta R.T. -0.07 min

Lab File: VU041153.D

Acq: 09 Nov 2020 20:00

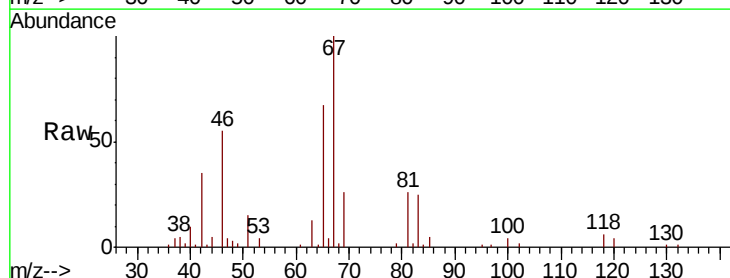
Tgt Ion: 83 Resp: 7133

Ion Ratio Lower Upper

83 100

55 2.5 72.0 108.0#

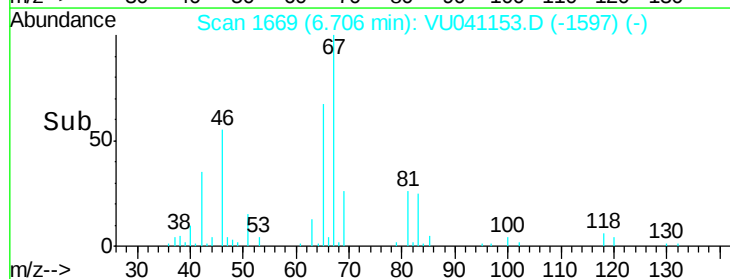
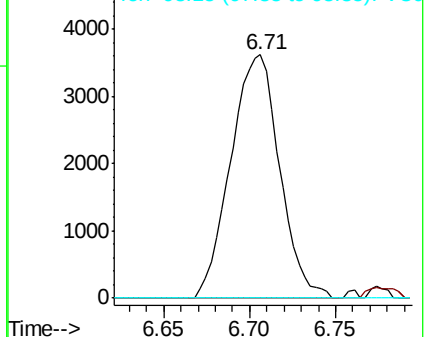
98 0.0 36.6 55.0#

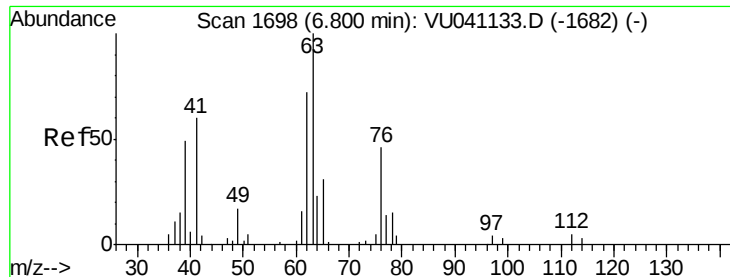


Abundance Ion 83.15 (82.85 to 83.85): VU0

Ion 55.10 (54.80 to 55.80): VU0

Ion 98.15 (97.85 to 98.85): VU0

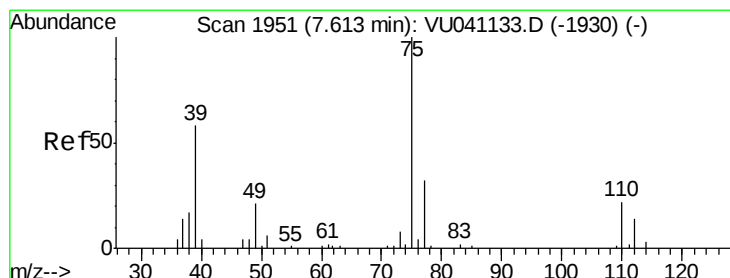
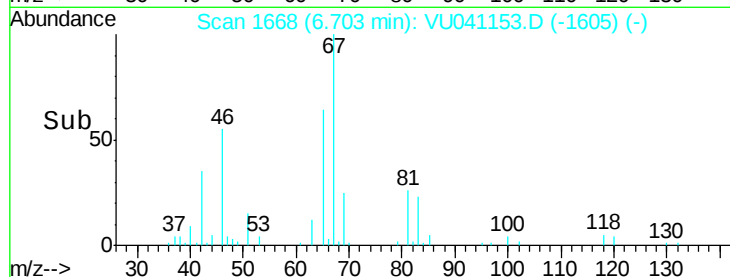
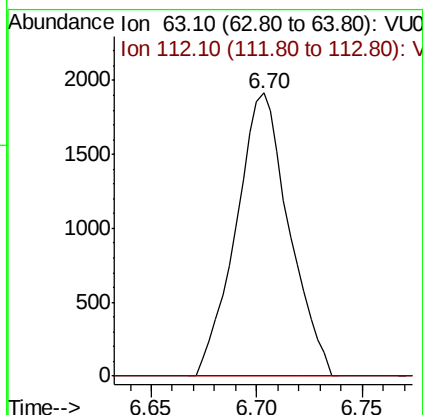
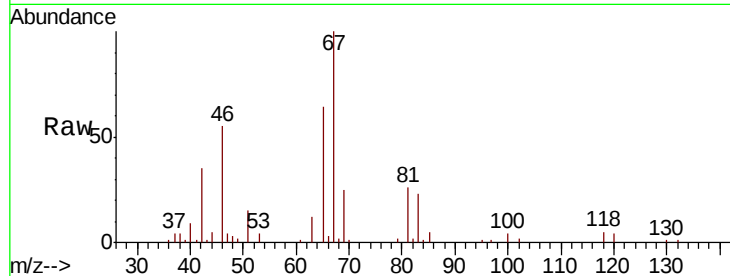




#37
 1,2-Dichloropropane
 Concen: 0.812 ug/L
 RT: 6.70 min Scan# 1668
 Delta R.T. -0.10 min
 Lab File: VU041153.D
 Acq: 09 Nov 2020 20:00

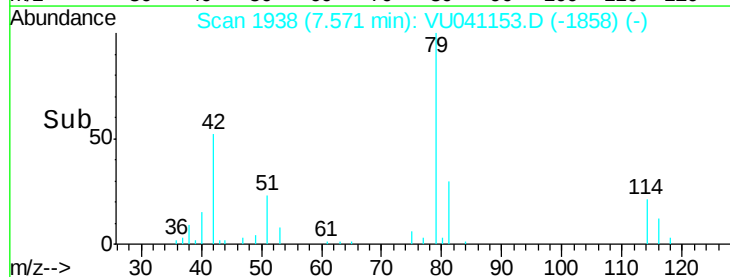
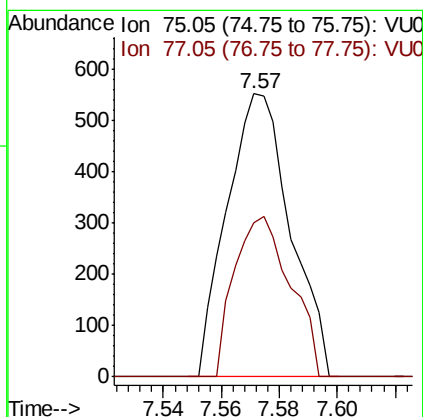
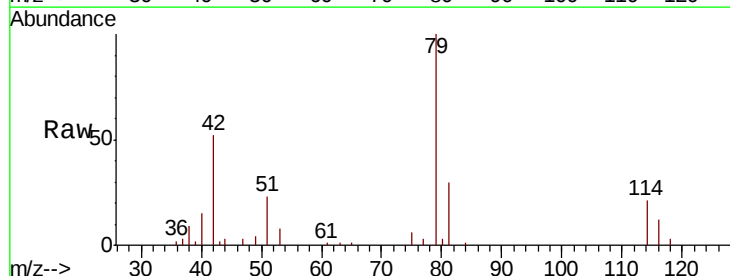
Instrument :
 MSVOA_U
 ClientSampleId :
 GB0W4

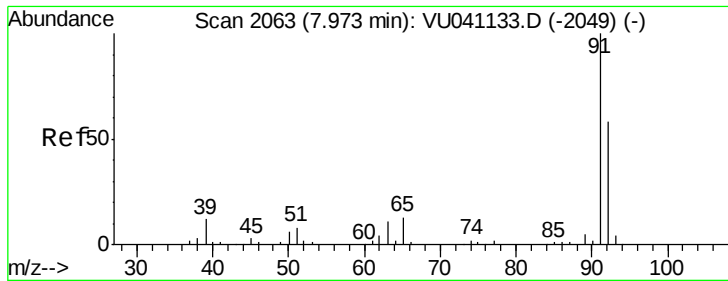
Tot Ion: 63 Resp: 3347
 Ion Ratio Lower Upper
 63 100
 112 0.0 3.6 5.4#



#39
 cis-1,3-Dichloropropene
 Concen: 0.148 ug/L
 RT: 7.57 min Scan# 1938
 Delta R.T. -0.04 min
 Lab File: VU041153.D
 Acq: 09 Nov 2020 20:00

Tgt Ion: 75 Resp: 838
 Ion Ratio Lower Upper
 75 100
 77 54.3 22.7 42.3#





#42

Toluene

Concen: 0.092 ug/L

RT: 7.97 min Scan# 2063

Delta R.T. -0.00 min

Lab File: VU041153.D

Acq: 09 Nov 2020 20:00

Instrument :

MSVOA_U

ClientSampleId :

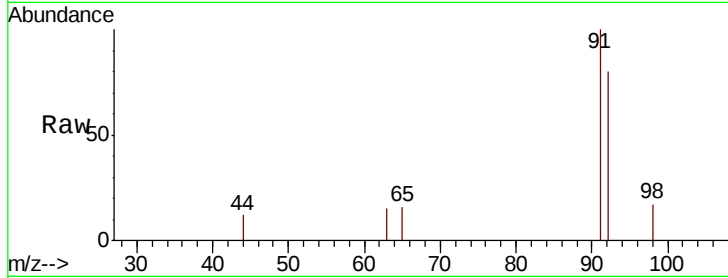
GB0W4

Tot Ion: 91 Resp: 1419

Ion Ratio Lower Upper

91 100

92 80.0 40.6 75.4#



Abundance Ion 91.15 (90.85 to 91.85): VU041153.D (-1970) (-)

Ion 92.15 (91.85 to 92.85): VU041153.D (-1970) (-)

7.97

800

600

400

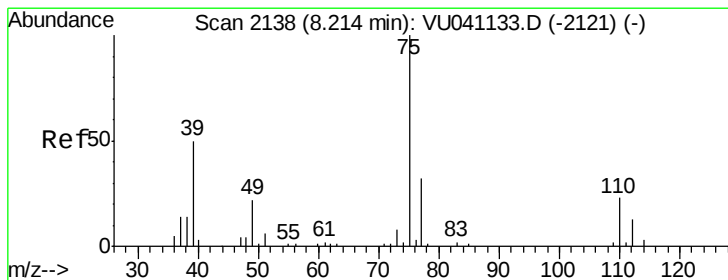
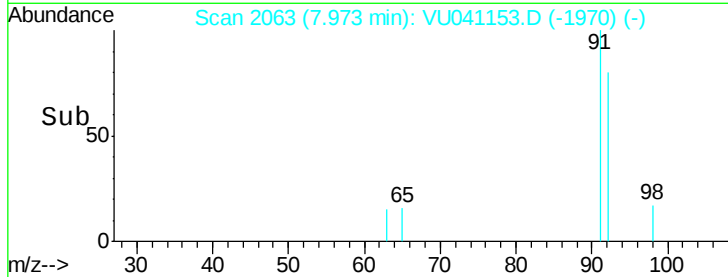
200

0

7.95

8.00

Time-->



#44

trans-1,3-Dichloropropene

Concen: 0.096 ug/L

RT: 8.19 min Scan# 2129

Delta R.T. -0.03 min

Lab File: VU041153.D

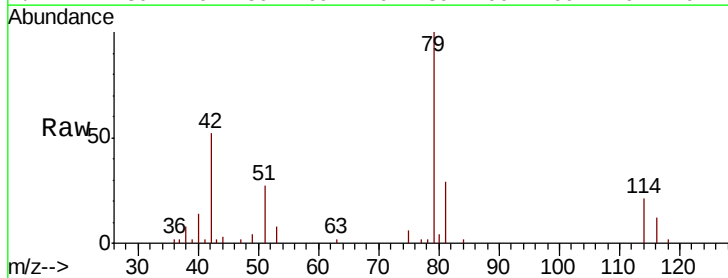
Acq: 09 Nov 2020 20:00

Tgt Ion: 75 Resp: 509

Ion Ratio Lower Upper

75 100

77 32.0 23.3 43.3



Abundance Ion 75.05 (74.75 to 75.75): VU041153.D (-2045) (-)

Ion 77.05 (76.75 to 77.75): VU041153.D (-2045) (-)

8.19

400

300

200

100

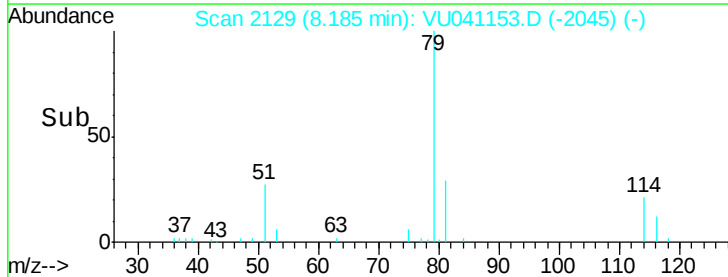
0

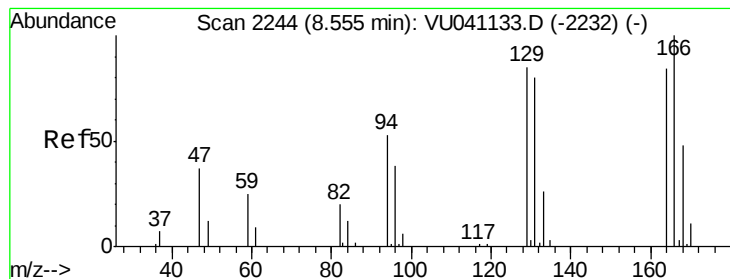
8.16

8.18

8.20

Time-->





#47

Tetrachloroethene

Concen: 0.582 ug/L

RT: 8.56 min Scan# 2244

Delta R.T. -0.00 min

Lab File: VU041153.D

Acq: 09 Nov 2020 20:00

Instrument :

MSVOA_U

ClientSampleId :

GB0W4

Tot Ion:164 Resp: 1660

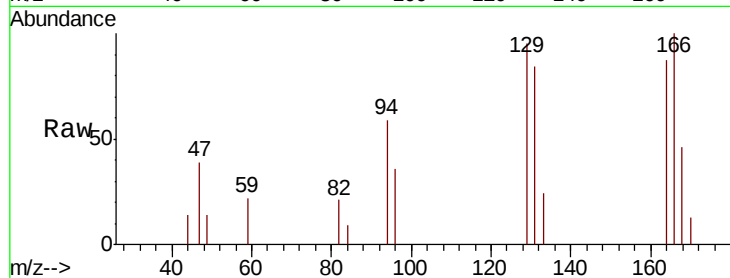
Ion Ratio Lower Upper

164 100

129 109.9 70.3 130.7

131 96.6 70.8 131.4

166 115.2 92.0 170.8

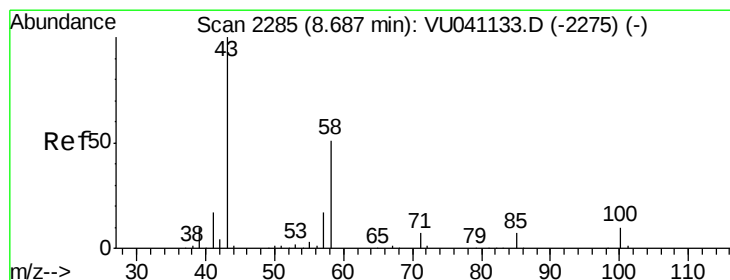
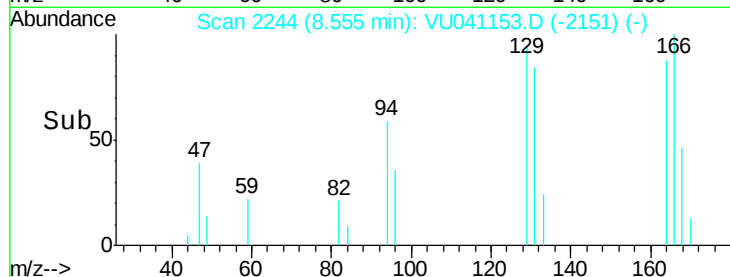
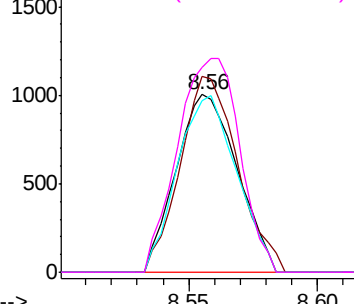


Abundance Ion 163.90 (163.60 to 164.60): V

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



#48

2-Hexanone

Concen: 4.106 ug/L

RT: 8.64 min Scan# 2270

Delta R.T. -0.05 min

Lab File: VU041153.D

Acq: 09 Nov 2020 20:00

Tgt Ion: 43 Resp: 10161

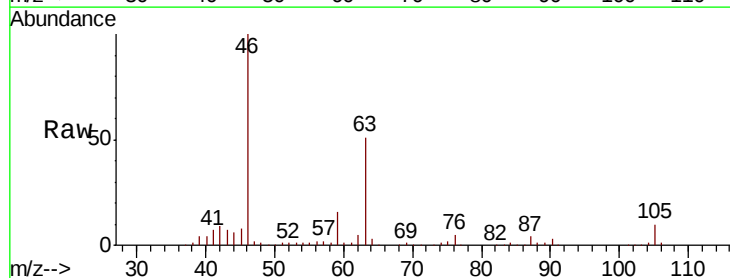
Ion Ratio Lower Upper

43 100

58 25.9 41.4 62.2#

57 25.2 14.6 21.8#

100 0.0 8.3 12.5#

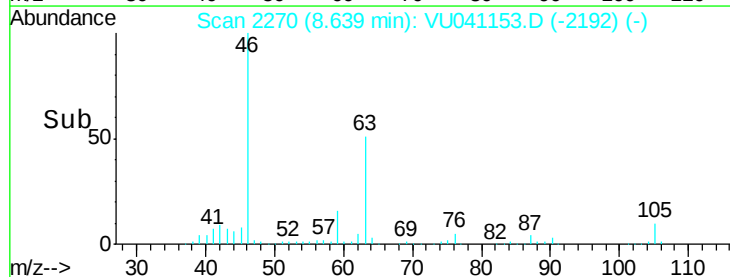
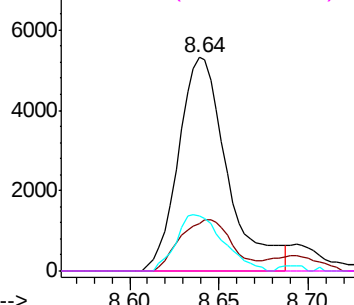


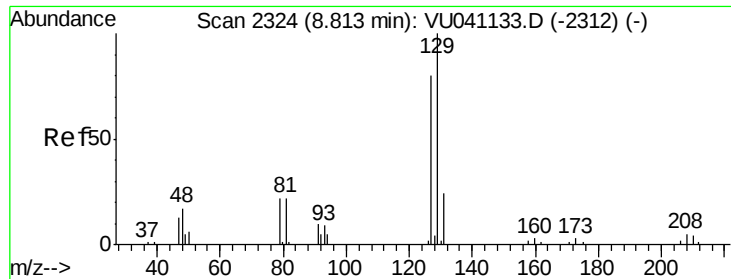
Abundance Ion 43.05 (42.75 to 43.75): VU0

Ion 58.05 (57.75 to 58.75): VU0

Ion 57.20 (56.90 to 57.90): VU0

Ion 100.15 (99.85 to 100.85): VU0





#49

Dibromochloromethane

Concen: 0.482 ug/L

RT: 8.56 min Scan# 2244

Delta R.T. -0.26 min

Lab File: VU041153.D

Acq: 09 Nov 2020 20:00

Instrument :

MSVOA_U

ClientSampleId :

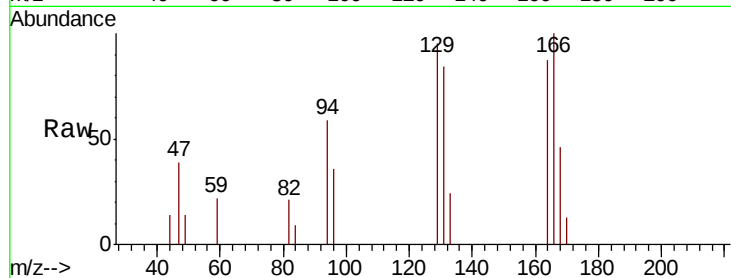
GB0W4

Tot Ion:129 Resp: 1718

Ion Ratio Lower Upper

129 100

127 0.0 53.4 99.2#



Abundance Ion 128.95 (128.65 to 129.65): V

Ion 126.90 (126.60 to 127.60): V

8.56

1200

1000

800

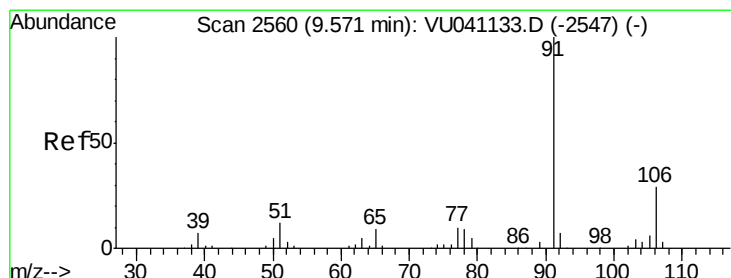
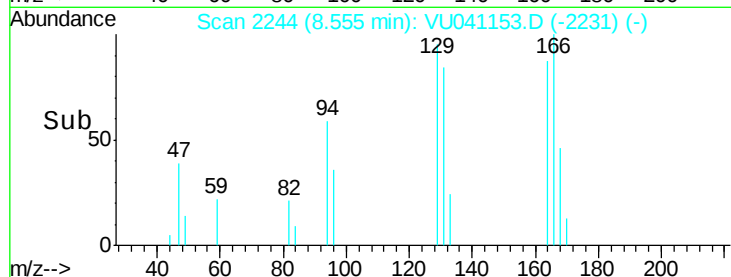
600

400

200

0

Time--> 8.50 8.55 8.60



#52

Ethylbenzene

Concen: 0.057 ug/L

RT: 9.57 min Scan# 2560

Delta R.T. -0.00 min

Lab File: VU041153.D

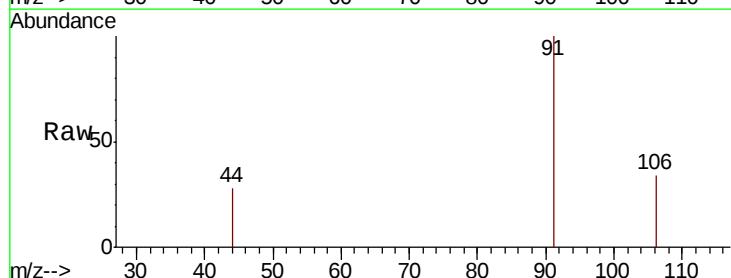
Acq: 09 Nov 2020 20:00

Tgt Ion: 91 Resp: 920

Ion Ratio Lower Upper

91 100

106 33.6 21.0 39.0



Abundance Ion 91.15 (90.85 to 91.85): VU0

Ion 106.15 (105.85 to 106.85): V

9.57

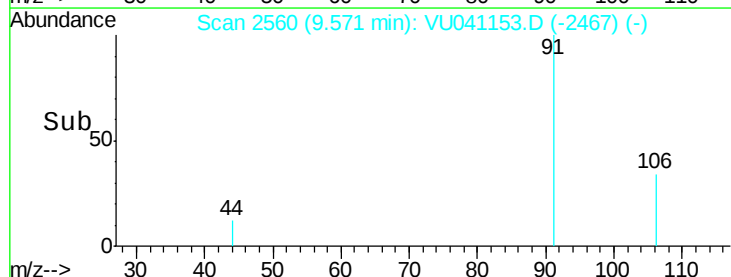
600

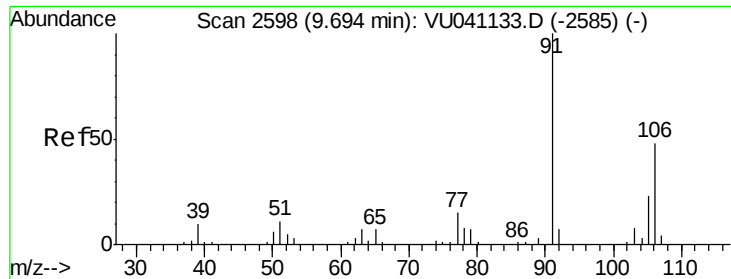
400

200

0

Time--> 9.54 9.56 9.58 9.60





#53

m.p-Xylene

Concen: 0.467 ug/L

RT: 9.69 min Scan# 2598

Delta R.T. -0.00 min

Lab File: VU041153.D

Acq: 09 Nov 2020 20:00

Instrument :

MSVOA_U

ClientSampled :

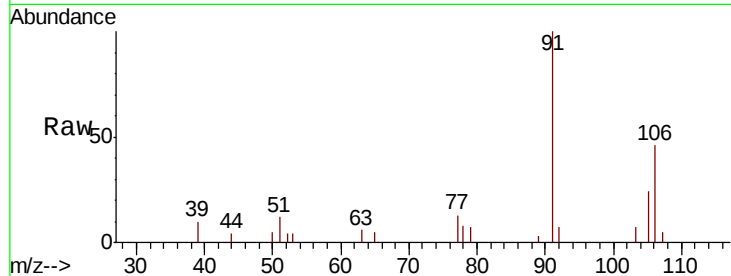
GB0W4

Tot Ion:106 Resp: 2770

Ion Ratio Lower Upper

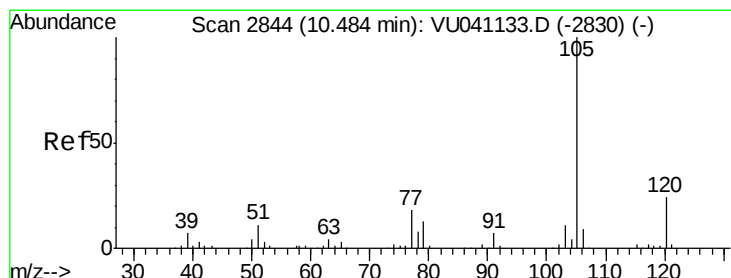
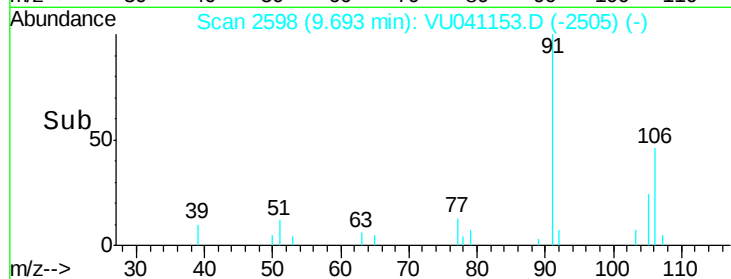
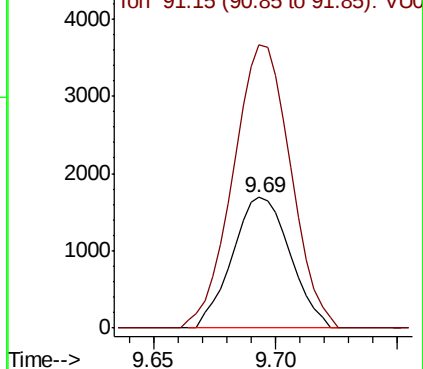
106 100

91 216.2 150.9 280.3



Abundance Ion 106.15 (105.85 to 106.85): V

Ion 91.15 (90.85 to 91.85): VU0



#56

Isopropylbenzene

Concen: 0.047 ug/L

RT: 10.48 min Scan# 2843

Delta R.T. -0.00 min

Lab File: VU041153.D

Acq: 09 Nov 2020 20:00

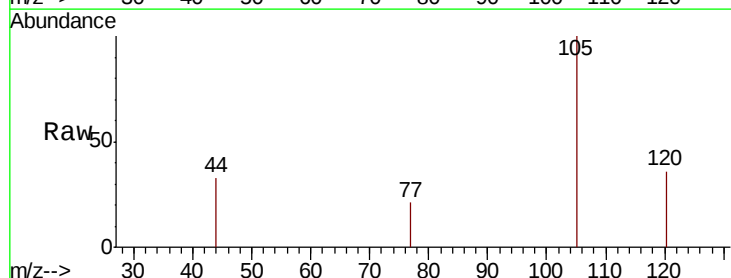
Tgt Ion:105 Resp: 705

Ion Ratio Lower Upper

105 100

120 21.0 20.7 31.1

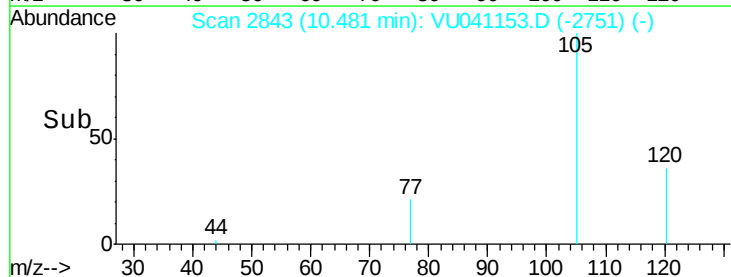
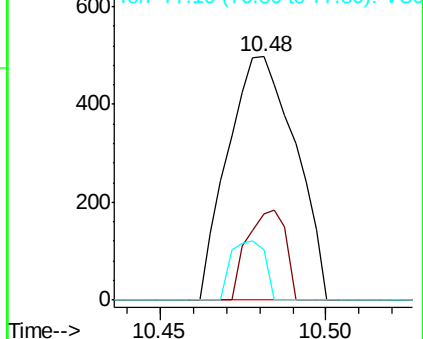
77 12.1 13.8 20.6#

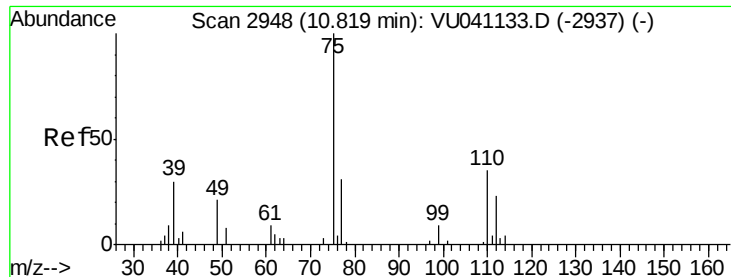


Abundance Ion 105.05 (104.75 to 105.75): V

Ion 120.10 (119.80 to 120.80): V

Ion 77.10 (76.80 to 77.80): VU0





#59

1,2,3-Trichloropropane

Concen: 0.873 ug/L

RT: 11.81 min Scan# 3255

Delta R.T. 0.99 min

Lab File: VU041153.D

Acq: 09 Nov 2020 20:00

Instrument :

MSVOA_U

ClientSampleId :

GB0W4

Tot Ion: 75 Resp: 2681

Ion Ratio Lower Upper

75 100

77 45.2 25.7 38.5#

