

Data Path : Z:\VOASRV\HPCHEM1\MSVOA U\DATA\U101920\
 Data File : VU040834.D
 Acq On : 20 Oct 2020 03:19
 Operator : SY/MD
 Sample : L4428-05
 Misc : 25.0mL/MSVOA U/WATER
 ALS Vial : 47 Sample Multiplier: 1

Instrument :
 MSVOA_U
 ClientSampleId :
 ETZ30

Quant Time: Oct 20 05:22:06 2020
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_U\METHOD\SOMUTR100820WMA.M
 Quant Title : TRACE VOA SOM01.0
 QLast Update : Tue Oct 20 05:12:18 2020
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Difluorobenzene	6.26	114	107483	5.00	ug/L	0.00
28) Chlorobenzene-d5	9.42	117	113036	5.00	ug/L	0.00
60) 1,4-Dichlorobenzene-d4	11.81	152	44969	5.00	ug/L	0.00

System Monitoring Compounds

4) Vinyl Chloride-d3	1.60	65	25829	2.90	ug/L	0.00
Spiked Amount	5.000	Range	40 - 130	Recovery	=	58.00%
7) Chloroethane-d5	1.92	69	26819	3.91	ug/L	0.00
Spiked Amount	5.000	Range	65 - 130	Recovery	=	78.20%
11) 1,1-Dichloroethene-d2	2.58	63	43364	2.49	ug/L	0.00
Spiked Amount	5.000	Range	60 - 125	Recovery	=	49.80%#
20) 2-Butanone-d5	4.66	46	172353	60.47	ug/L	0.00
Spiked Amount	50.000	Range	40 - 130	Recovery	=	120.94%
24) Chloroform-d	5.08	84	77799	4.98	ug/L	0.00
Spiked Amount	5.000	Range	70 - 125	Recovery	=	99.60%
26) 1,2-Dichloroethane-d4	5.72	65	48716	5.12	ug/L	0.00
Spiked Amount	5.000	Range	70 - 130	Recovery	=	102.40%
32) Benzene-d6	5.74	84	127451	4.18	ug/L	0.00
Spiked Amount	5.000	Range	70 - 125	Recovery	=	83.60%
36) 1,2-Dichloropropane-d6	6.70	67	47535	4.70	ug/L	0.00
Spiked Amount	5.000	Range	60 - 140	Recovery	=	94.00%
41) Toluene-d8	7.91	98	91557	3.35	ug/L	0.00
Spiked Amount	5.000	Range	70 - 130	Recovery	=	67.00%#
43) trans-1,3-Dichloropropene-	8.19	79	17145	4.00	ug/L	0.00
Spiked Amount	5.000	Range	55 - 130	Recovery	=	80.00%
46) 2-Hexanone-d5	8.64	63	113675	51.45	ug/L	0.00
Spiked Amount	50.000	Range	45 - 130	Recovery	=	102.90%
57) 1,1,2,2-Tetrachloroethane-	10.75	84	48020	5.29	ug/L	0.00
Spiked Amount	5.000	Range	65 - 120	Recovery	=	105.80%
64) 1,2-Dichlorobenzene-d4	12.19	152	44434	5.33	ug/L	0.00
Spiked Amount	5.000	Range	80 - 120	Recovery	=	106.60%

Target Compounds

					Ovalue
3) Chloromethane	1.48	50	24353	2.674 ug/L #	43
5) Vinyl chloride	1.61	62	58792	6.130 ug/L #	1
8) Chloroethane	2.01	64	2087	0.342 ug/L #	51
10) 1,1,2-Trichloro-1,2,2-trif	2.58	101	568	0.064 ug/L #	1
12) 1,1-Dichloroethene	2.58	96	767	0.100 ug/L #	1
14) Carbon disulfide	2.81	76	1591	0.074 ug/L #	76
17) Methyl tert-butyl Ether	3.38	73	7483	0.345 ug/L #	74
18) trans-1,2-Dichloroethene	3.37	96	840	0.105 ug/L	96
19) 1,1-Dichloroethane	3.89	63	1138	0.069 ug/L #	80
22) cis-1,2-Dichloroethene	4.69	96	54555	6.302 ug/L	97
30) Cyclohexane	5.39	56	671	0.048 ug/L #	49
33) Benzene	5.79	78	2003	0.055 ug/L	100
34) Trichloroethene	6.56	95	2441	0.259 ug/L	96
35) Methylcyclohexane	6.70	83	10997	0.824 ug/L #	14
37) 1,2-Dichloropropane	6.71	63	5330	0.527 ug/L #	87
39) cis-1,3-Dichloropropene	7.57	75	1191	0.086 ug/L #	43
44) trans-1,3-Dichloropropene	8.19	75	824	0.065 ug/L #	63

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ALS Vial : 47 Sample Multiplier: 1

Instrument :
MSVOA_U
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ETZ30

Quant Time: Oct 20 05:22:06 2020
Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_U\METHOD\SOMUTR100820WMA.M
Quant Title : TRACE VOA SOM01.0
QLast Update : Tue Oct 20 05:12:18 2020
Response via : Initial Calibration

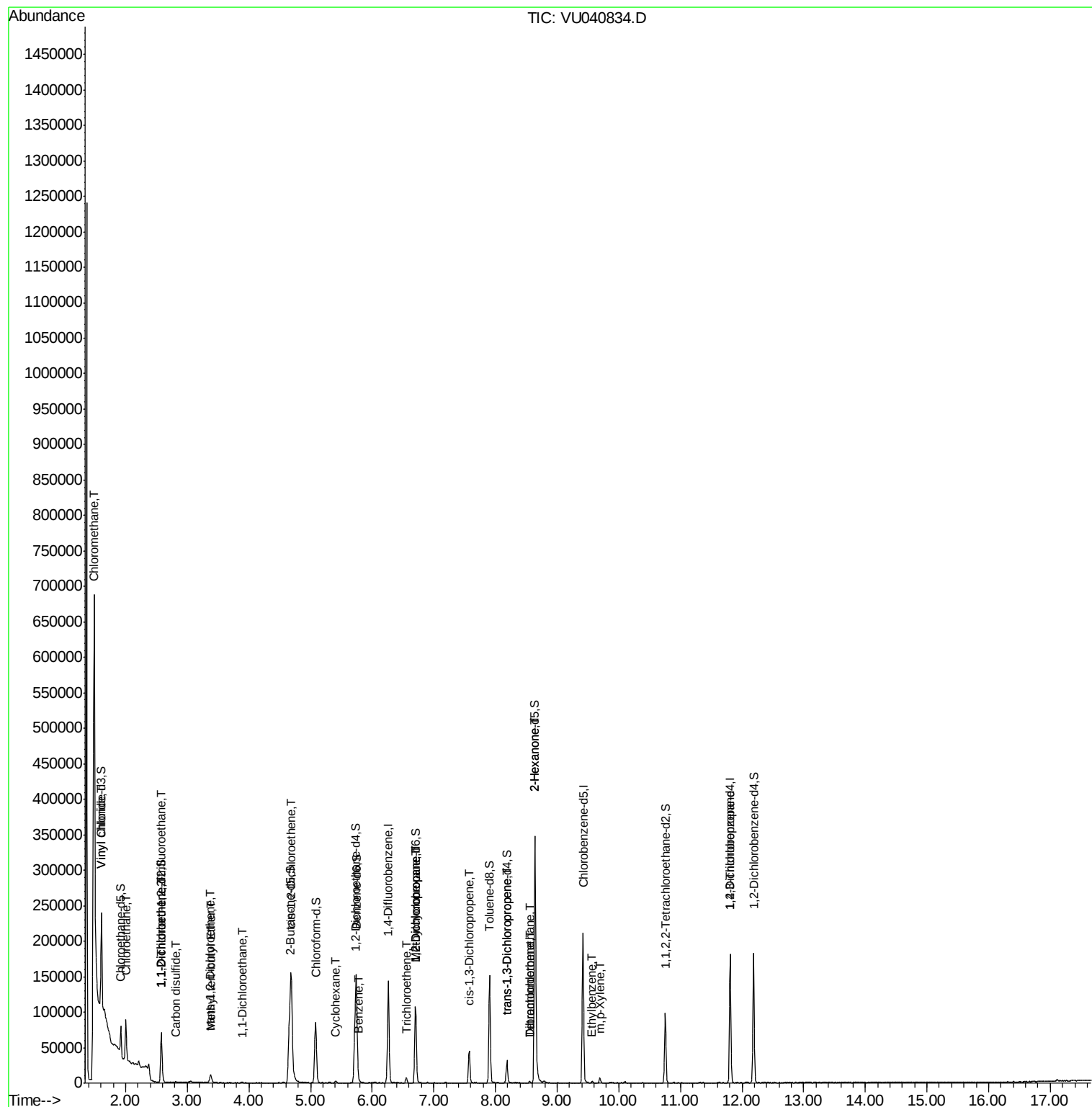
Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
47) Tetrachloroethene	8.56	164	468	0.070	ug/L #	78
48) 2-Hexanone	8.64	43	16619	2.767	ug/L #	71
49) Dibromochloromethane	8.55	129	456	0.052	ug/L #	9
52) Ethylbenzene	9.57	91	1725	0.043	ug/L #	61
53) m,p-Xylene	9.70	106	2372	0.162	ug/L	66
59) 1,2,3-Trichloropropane	11.81	75	5778	0.777	ug/L	95

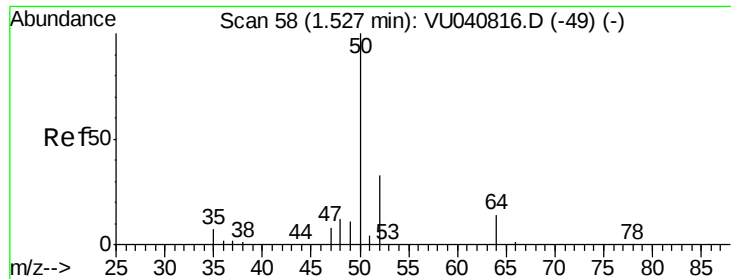
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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#3

Chloromethane

Concen: 2.674 ug/L

RT: 1.48 min Scan# 44

Delta R.T. -0.05 min

Lab File: VU040834.D

Acq: 20 Oct 2020 03:19

Instrument :

MSVOA_U

ClientSampleId :

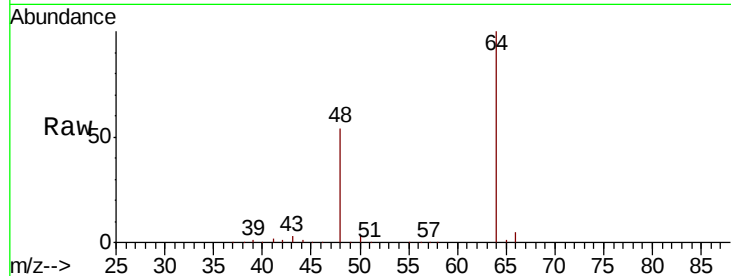
ETZ30

Tot Ion: 50 Resp: 24353

Ion Ratio Lower Upper

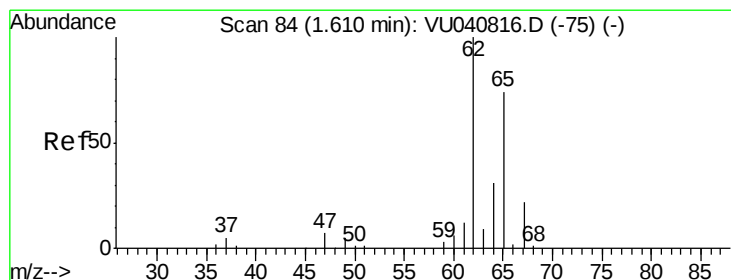
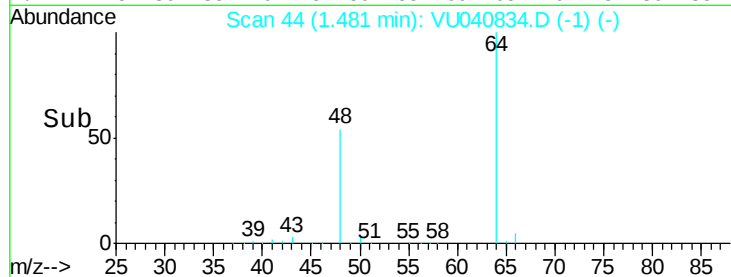
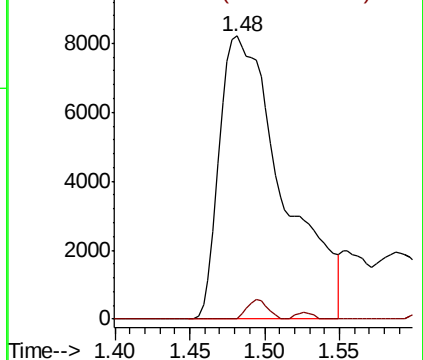
50 100

52 0.0 21.9 40.7#



Abundance Ion 50.05 (49.75 to 50.75): VU0

Ion 52.05 (51.75 to 52.75): VU0



#5

Vinyl chloride

Concen: 6.130 ug/L

RT: 1.61 min Scan# 84

Delta R.T. -0.00 min

Lab File: VU040834.D

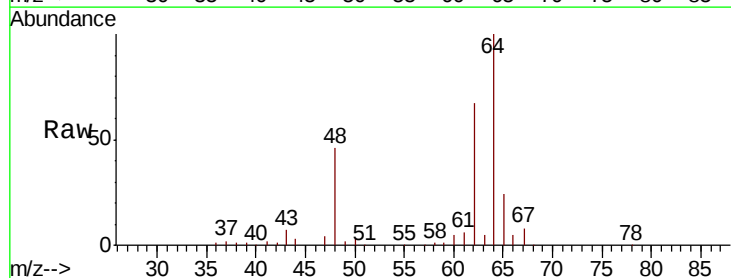
Acq: 20 Oct 2020 03:19

Tgt Ion: 62 Resp: 58792

Ion Ratio Lower Upper

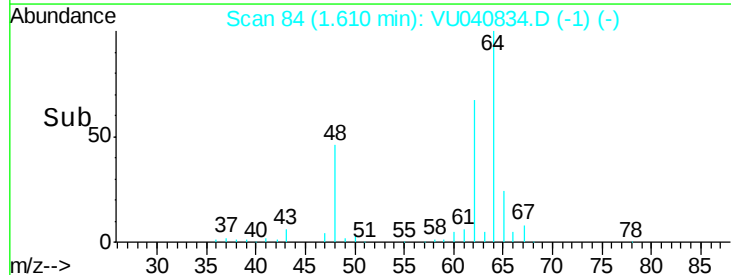
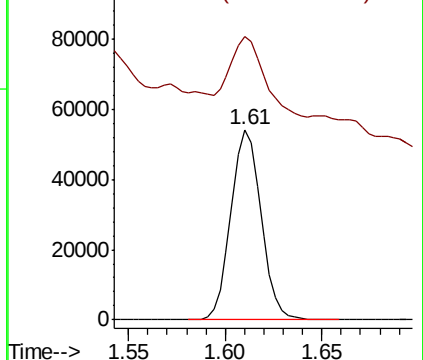
62 100

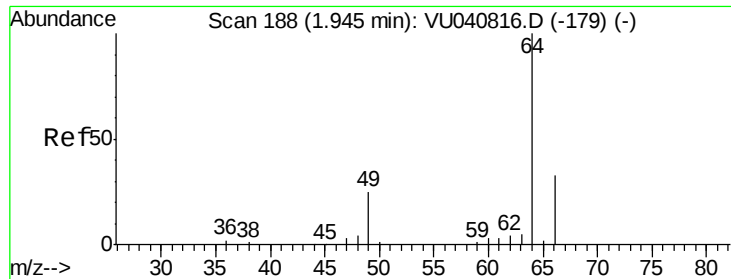
64 148.6 23.7 44.1#



Abundance Ion 62.00 (61.70 to 62.70): VU0

Ion 64.10 (63.80 to 64.80): VU0





#8

Chloroethane

Concen: 0.342 ug/L

RT: 2.01 min Scan# 208

Delta R.T. 0.06 min

Lab File: VU040834.D

Acq: 20 Oct 2020 03:19

Instrument :

MSVOA_U

ClientSampleId :

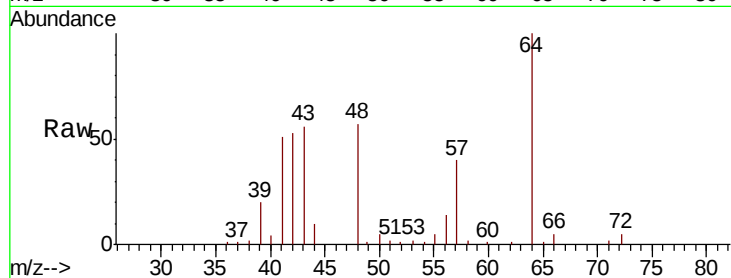
ETZ30

Tot Ion: 64 Resp: 2087

Ion Ratio Lower Upper

64 100

66 5.3 23.3 43.3#



Abundance Ion 64.10 (63.80 to 64.80): VU0

Ion 66.05 (65.75 to 66.75): VU0

2.01

20000

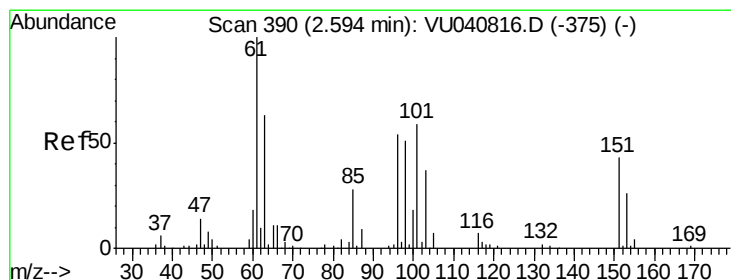
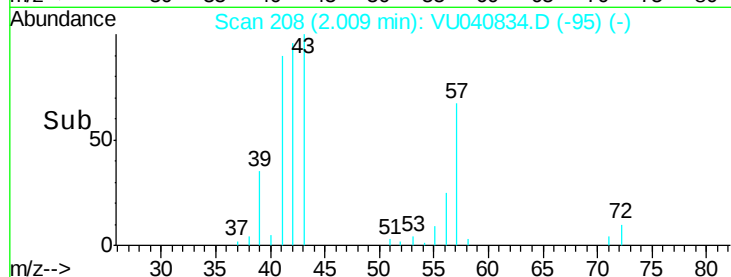
15000

10000

5000

0

Time-->



#10

1,1,2-Trichloro-1,2,2-trifluoroethane

Concen: 0.064 ug/L

RT: 2.58 min Scan# 386

Delta R.T. -0.01 min

Lab File: VU040834.D

Acq: 20 Oct 2020 03:19

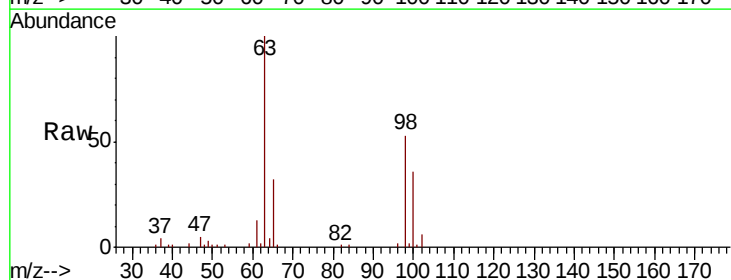
Tgt Ion: 101 Resp: 568

Ion Ratio Lower Upper

101 100

85 339.4 36.7 55.1#

151 0.0 58.0 87.0#



Abundance Ion 101.00 (100.70 to 101.70): V

Ion 85.00 (84.70 to 85.70): VU0

Ion 151.00 (150.70 to 151.70): V

2.58

400

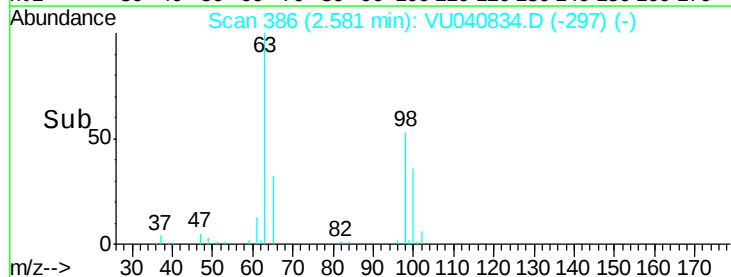
300

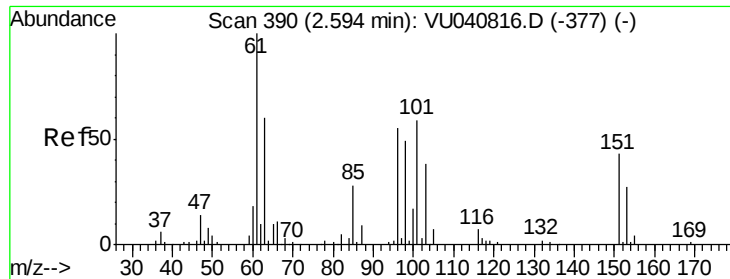
200

100

0

Time-->





#12

1,1-Dichloroethene

Concen: 0.100 ug/L

RT: 2.58 min Scan# 387

Delta R.T. -0.01 min

Lab File: VU040834.D

Acq: 20 Oct 2020 03:19

Instrument :

MSVOA_U

ClientSampleId :

ETZ30

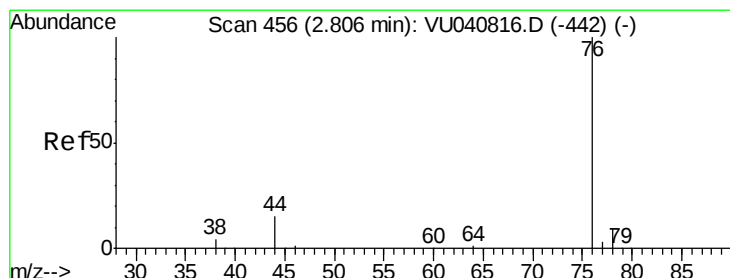
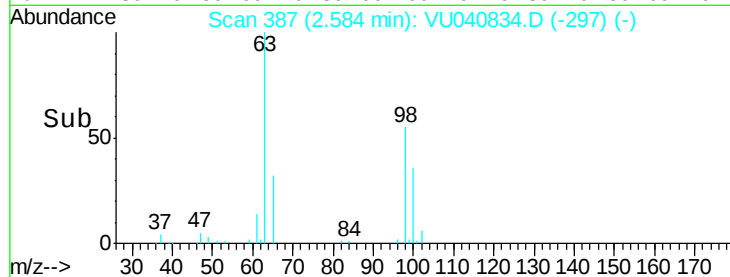
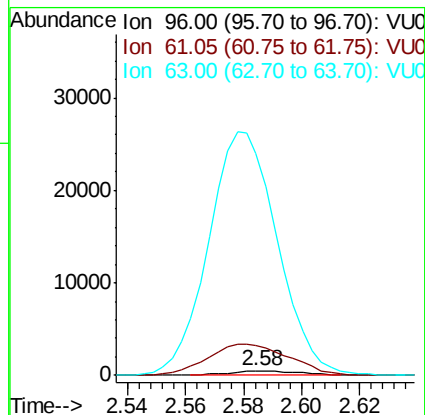
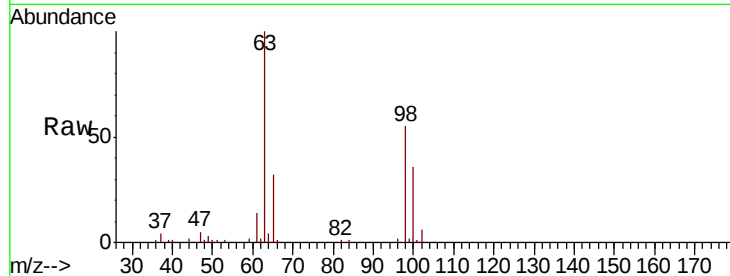
Tot Ion: 96 Resp: 767

Ion Ratio Lower Upper

96 100

61 654.8 128.8 239.2#

63 4808.0 84.6 157.2#



#14

Carbon disulfide

Concen: 0.074 ug/L

RT: 2.81 min Scan# 456

Delta R.T. -0.00 min

Lab File: VU040834.D

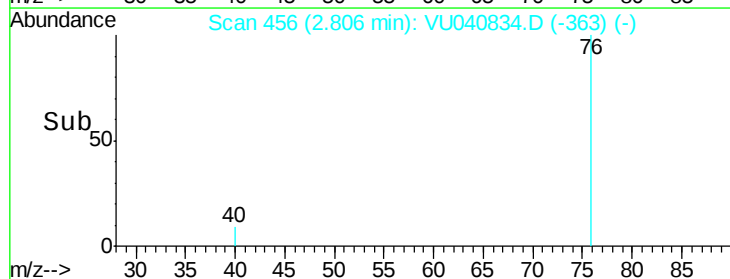
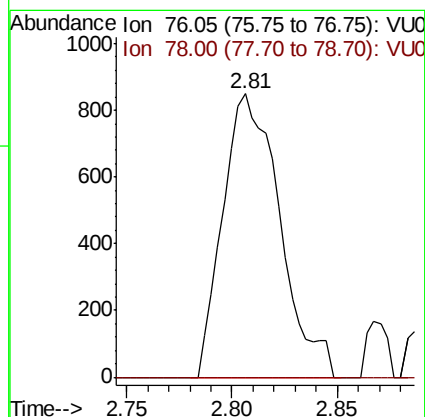
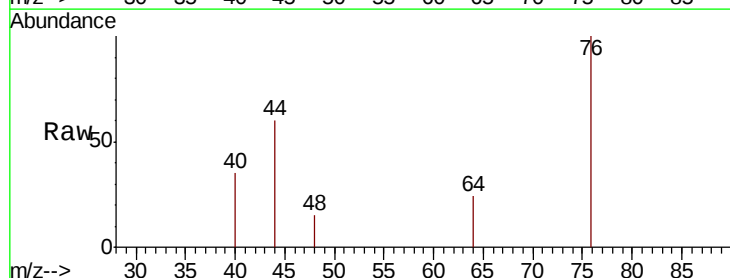
Acq: 20 Oct 2020 03:19

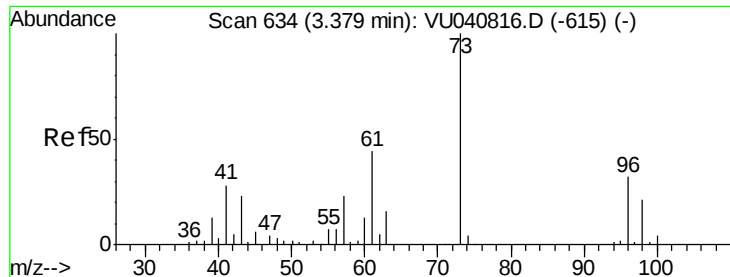
Tgt Ion: 76 Resp: 1591

Ion Ratio Lower Upper

76 100

78 0.0 6.8 10.2#

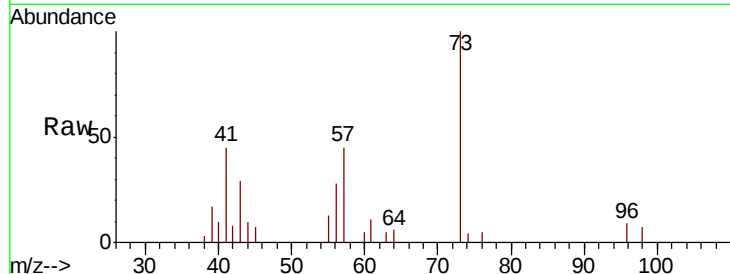




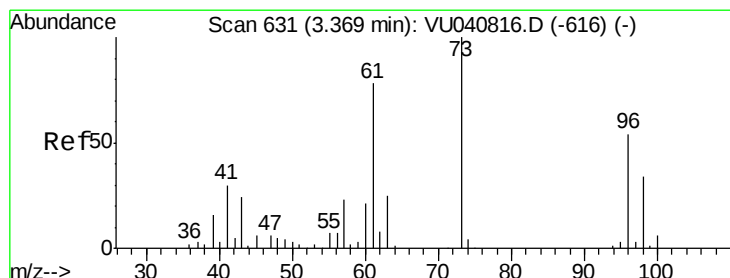
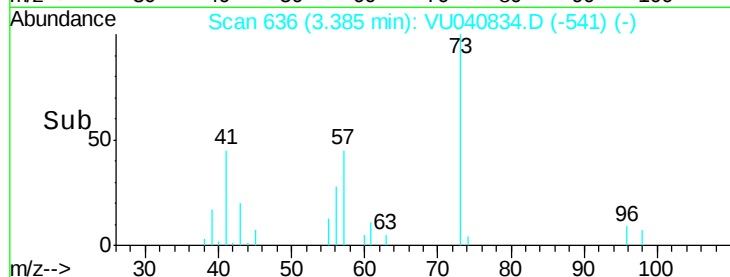
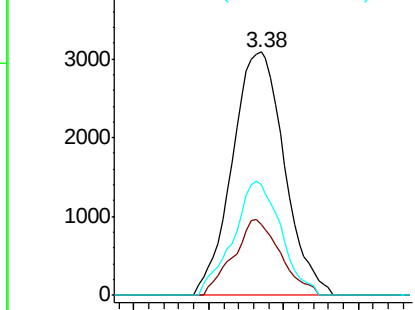
#17
Methvl tert-butvl Ether
Concen: 0.345 ug/L
RT: 3.38 min Scan# 636
Delta R.T. 0.01 min
Lab File: VU040834.D
Acq: 20 Oct 2020 03:19

Instrument :
MSVOA_U
ClientSampleId :
ETZ30

Tot Ion: 73 Resp: 7483
Ion Ratio Lower Upper
73 100
43 28.1 18.2 27.4#
57 43.0 18.6 28.0#

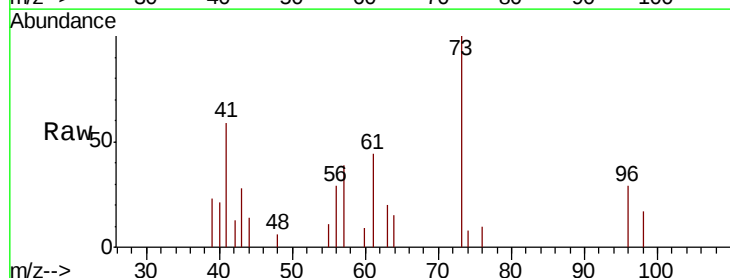


Abundance Ion 73.10 (72.80 to 73.80): VU0
Ion 43.05 (42.75 to 43.75): VU0
Ion 57.10 (56.80 to 57.80): VU0

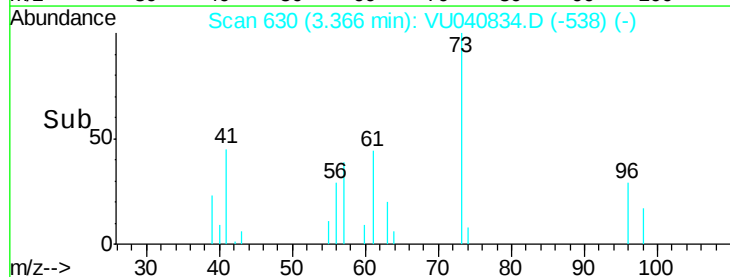
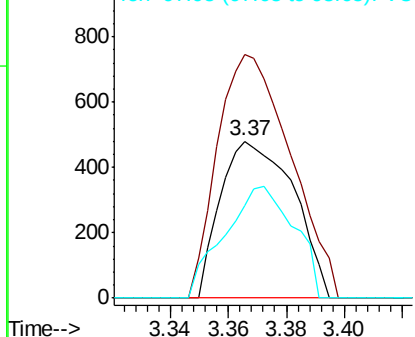


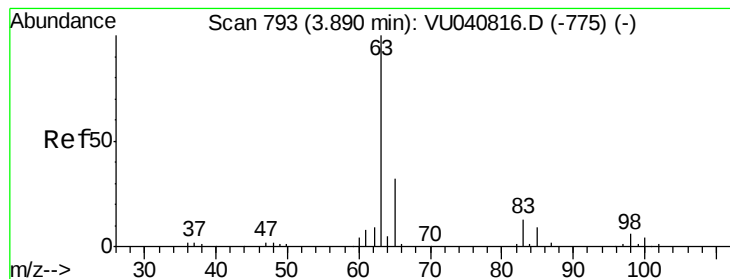
#18
trans-1,2-Dichloroethene
Concen: 0.105 ug/L
RT: 3.37 min Scan# 630
Delta R.T. -0.00 min
Lab File: VU040834.D
Acq: 20 Oct 2020 03:19

Tgt Ion: 96 Resp: 840
Ion Ratio Lower Upper
96 100
61 155.2 105.9 196.7
98 59.0 43.8 81.3



Abundance Ion 96.00 (95.70 to 96.70): VU0
Ion 61.05 (60.75 to 61.75): VU0
Ion 97.95 (97.65 to 98.65): VU0





#19

1,1-Dichloroethane

Concen: 0.069 ug/L

RT: 3.89 min Scan# 794

Delta R.T. 0.00 min

Lab File: VU040834.D

Acq: 20 Oct 2020 03:19

Instrument :

MSVOA_U

ClientSampleId :

ETZ30

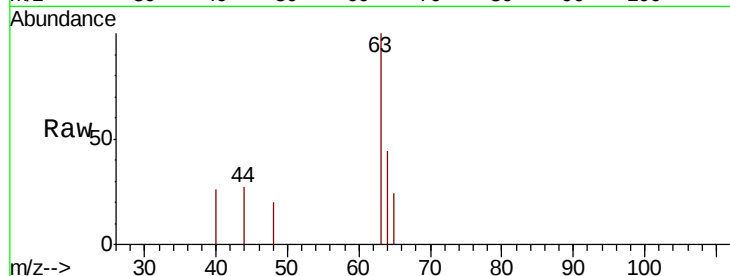
Tot Ion: 63 Resp: 1138

Ion Ratio Lower Upper

63 100

65 23.6 21.9 40.7

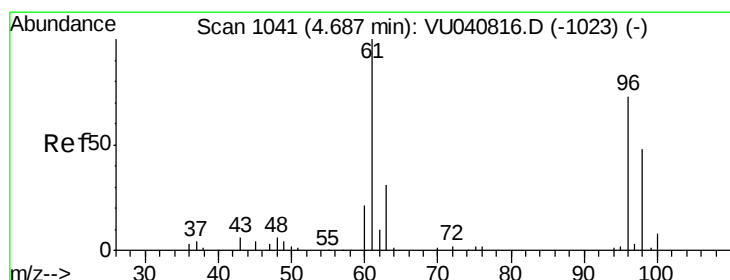
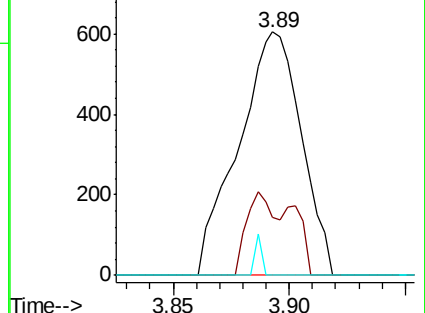
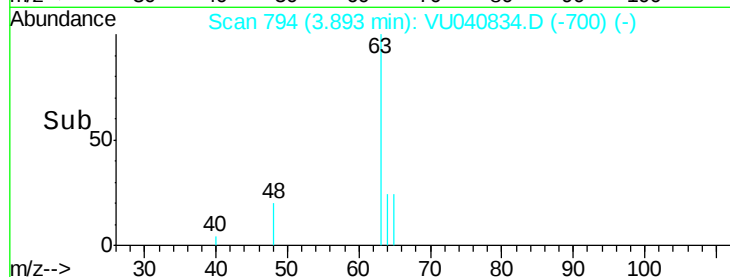
83 0.0 9.6 17.8#



Abundance Ion 63.10 (62.80 to 63.80): VU040834.D (-700) (-)

Ion 65.10 (64.80 to 65.80): VU040834.D (-700) (-)

Ion 83.05 (82.75 to 83.75): VU040834.D (-700) (-)



#22

cis-1,2-Dichloroethene

Concen: 6.302 ug/L

RT: 4.69 min Scan# 1041

Delta R.T. -0.00 min

Lab File: VU040834.D

Acq: 20 Oct 2020 03:19

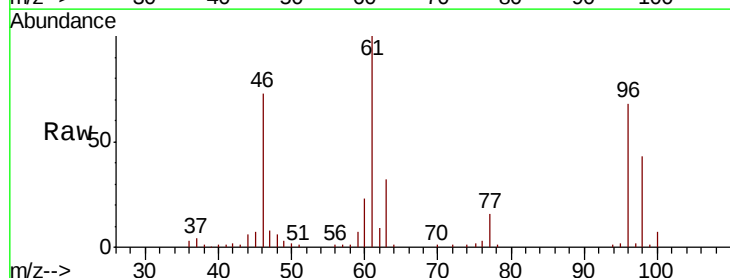
Tgt Ion: 96 Resp: 54555

Ion Ratio Lower Upper

96 100

61 146.6 99.8 185.4

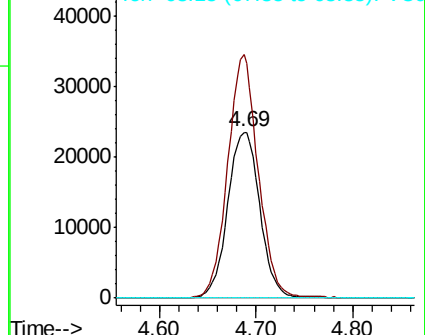
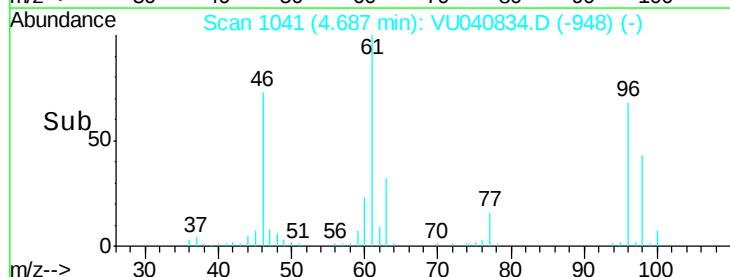
68 0.0 0.0 0.0

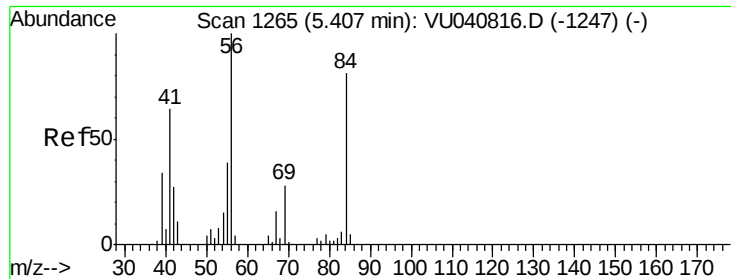


Abundance Ion 96.00 (95.70 to 96.70): VU040834.D (-948) (-)

Ion 61.05 (60.75 to 61.75): VU040834.D (-948) (-)

Ion 68.15 (67.85 to 68.85): VU040834.D (-948) (-)

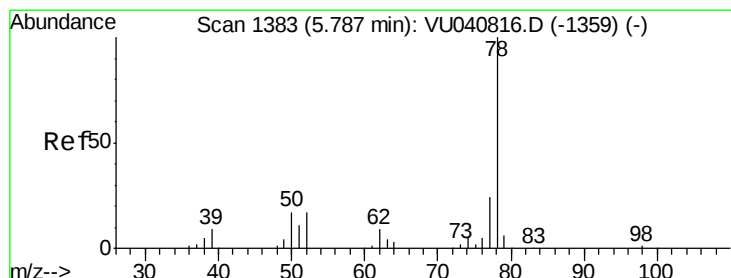
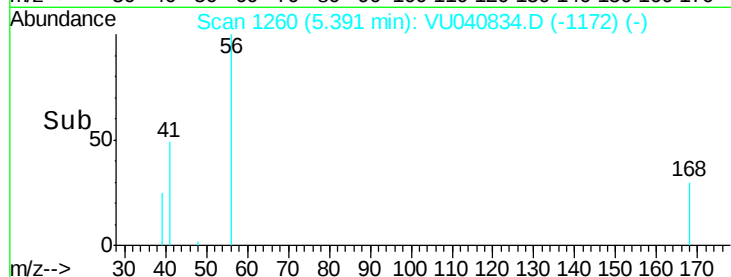
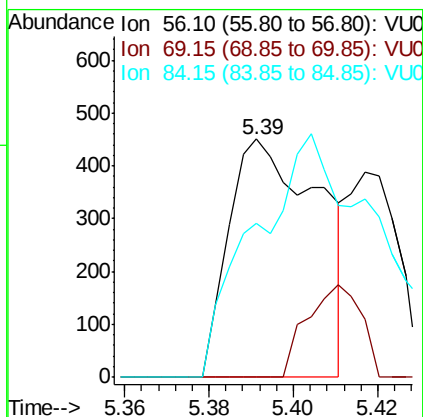
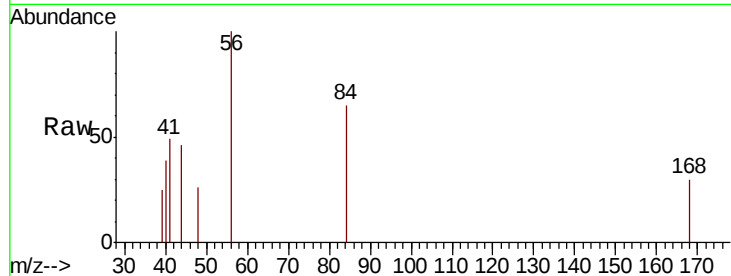




#30
Cyclohexane
Concen: 0.048 ug/L
RT: 5.39 min Scan# 1260
Delta R.T. -0.02 min
Lab File: VU040834.D
Acq: 20 Oct 2020 03:19

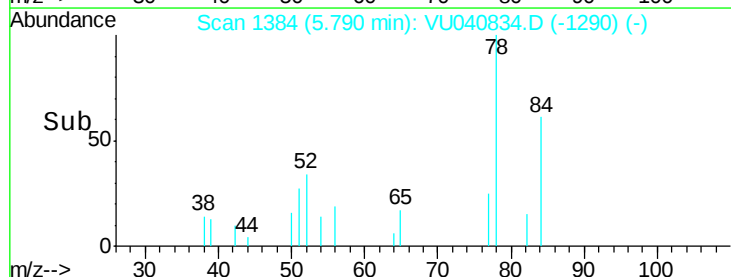
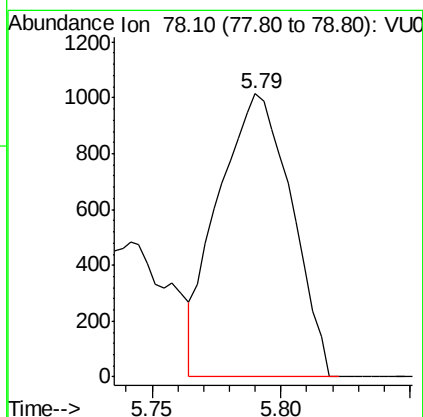
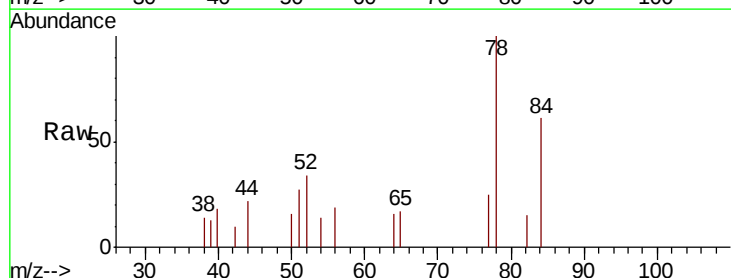
Instrument :
MSVOA_U
ClientSampleId :
ETZ30

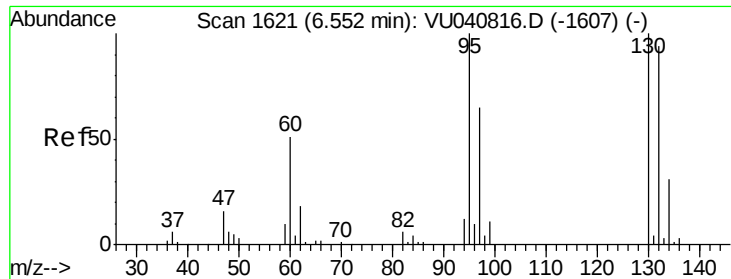
Tot Ion: 56 Resp: 671
Ion Ratio Lower Upper
56 100
69 23.1 23.8 35.8#
84 137.1 64.0 96.0#



#33
Benzene
Concen: 0.055 ug/L
RT: 5.79 min Scan# 1384
Delta R.T. 0.00 min
Lab File: VU040834.D
Acq: 20 Oct 2020 03:19

Tgt Ion: 78 Resp: 2003

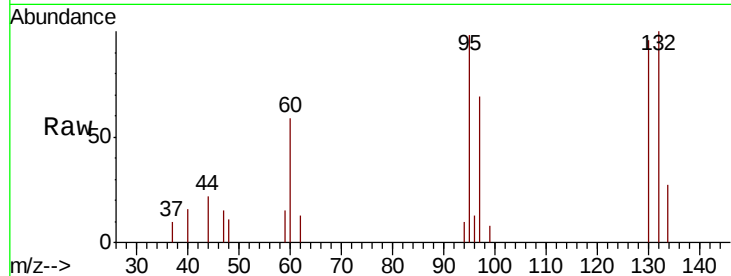




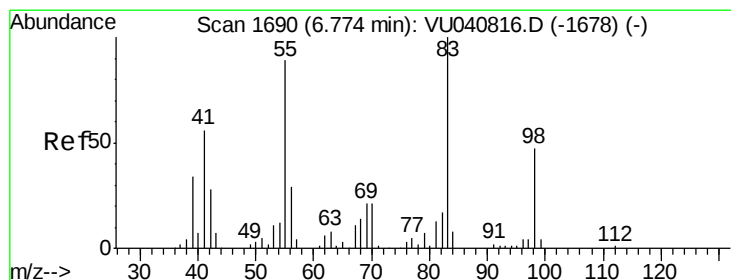
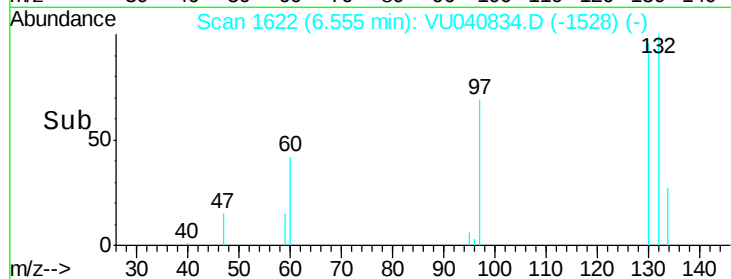
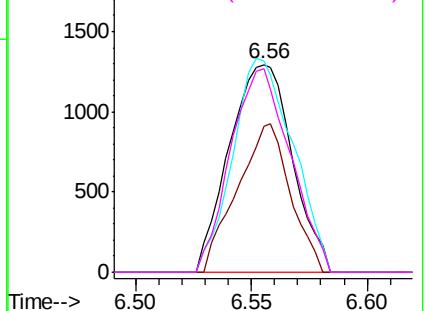
#34
 Trichloroethene
 Concen: 0.259 ug/L
 RT: 6.56 min Scan# 1622
 Delta R.T. 0.00 min
 Lab File: VU040834.D
 Acq: 20 Oct 2020 03:19

Instrument :
 MSVOA_U
 ClientSampleId :
 ETZ30

Tot Ion: 95 Resp: 2441
 Ion Ratio Lower Upper
 95 100
 97 70.2 45.5 84.5
 132 102.1 67.5 125.4
 130 98.1 69.9 129.9

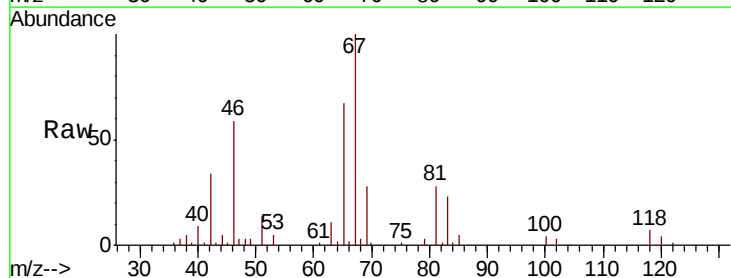


Abundance Ion 95.00 (94.70 to 95.70): VU0
 Ion 96.95 (96.65 to 97.65): VU0
 Ion 131.95 (131.65 to 132.65): V
 Ion 129.95 (129.65 to 130.65): V

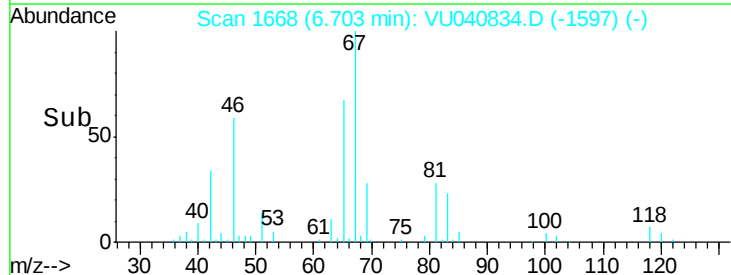
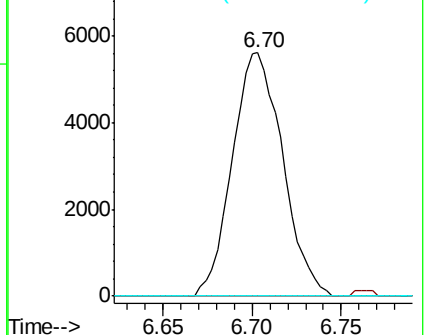


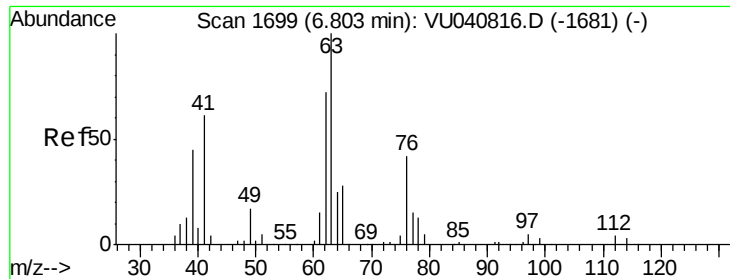
#35
 Methylcyclohexane
 Concen: 0.824 ug/L
 RT: 6.70 min Scan# 1668
 Delta R.T. -0.07 min
 Lab File: VU040834.D
 Acq: 20 Oct 2020 03:19

Tgt Ion: 83 Resp: 10997
 Ion Ratio Lower Upper
 83 100
 55 0.9 70.7 106.1#
 98 0.4 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

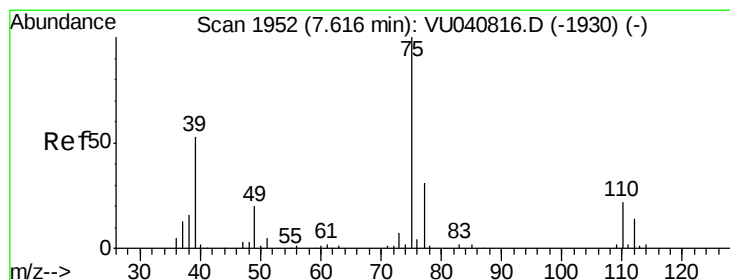
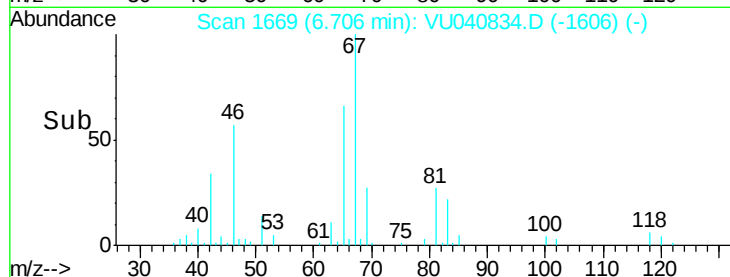
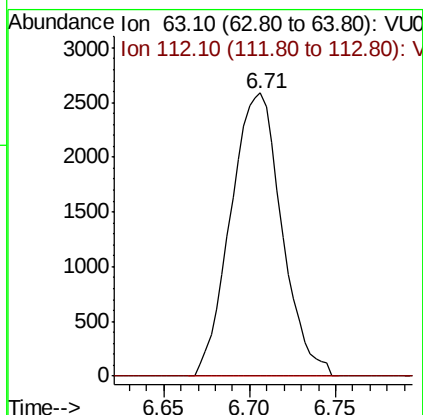
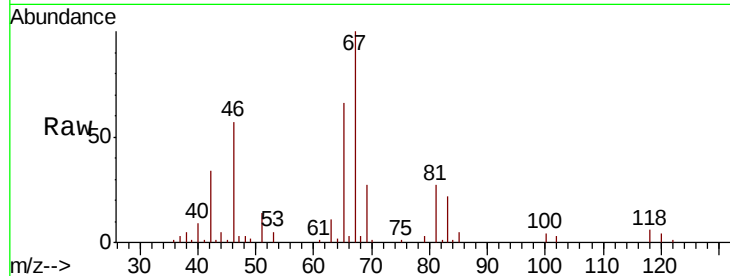




#37
 1,2-Dichloropropane
 Concen: 0.527 ug/L
 RT: 6.71 min Scan# 1669
 Delta R.T. -0.10 min
 Lab File: VU040834.D
 Acq: 20 Oct 2020 03:19

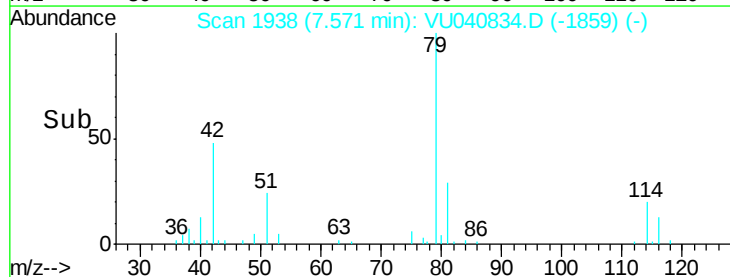
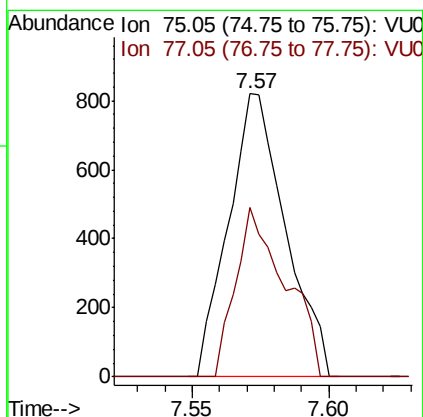
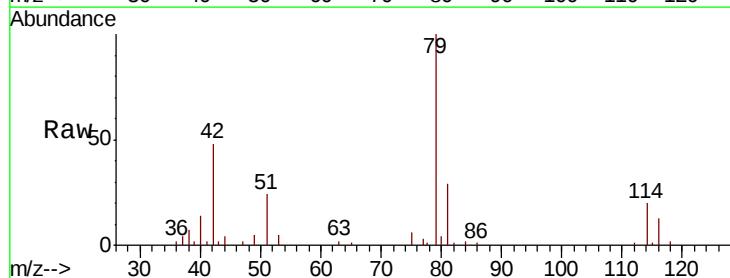
Instrument :
 MSVOA_U
 ClientSampleId :
 ETZ30

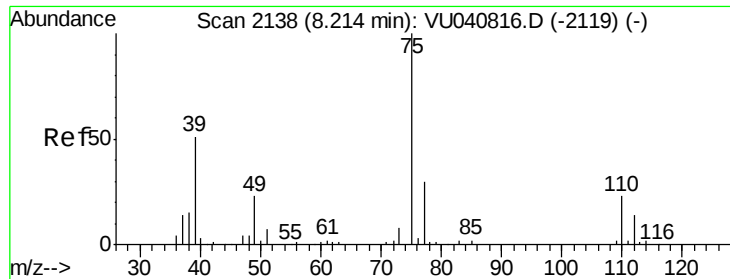
Tot Ion: 63 Resp: 5330
 Ion Ratio Lower Upper
 63 100
 112 0.0 3.5 5.3#



#39
 cis-1,3-Dichloropropene
 Concen: 0.086 ug/L
 RT: 7.57 min Scan# 1938
 Delta R.T. -0.05 min
 Lab File: VU040834.D
 Acq: 20 Oct 2020 03:19

Tgt Ion: 75 Resp: 1191
 Ion Ratio Lower Upper
 75 100
 77 59.8 20.5 38.1#





#44

trans-1,3-Dichloropropene

Concen: 0.065 ug/L

RT: 8.19 min Scan# 2130

Delta R.T. -0.03 min

Lab File: VU040834.D

Acq: 20 Oct 2020 03:19

Instrument :

MSVOA_U

ClientSampleId :

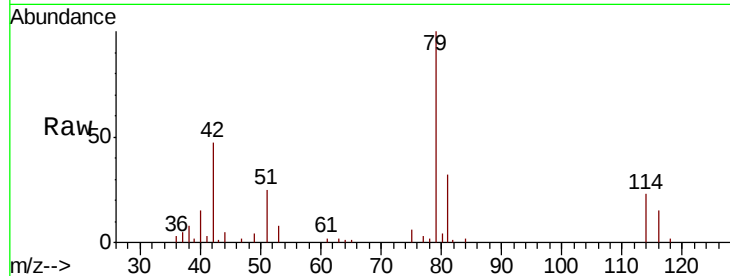
ETZ30

Tot Ion: 75 Resp: 824

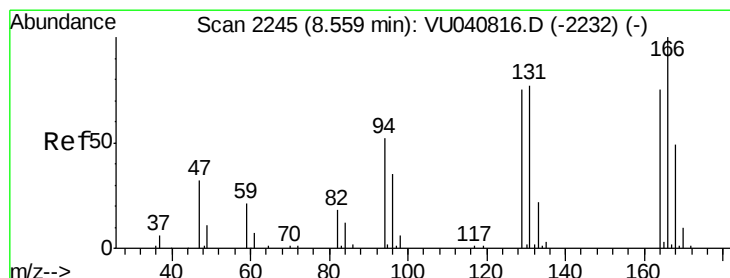
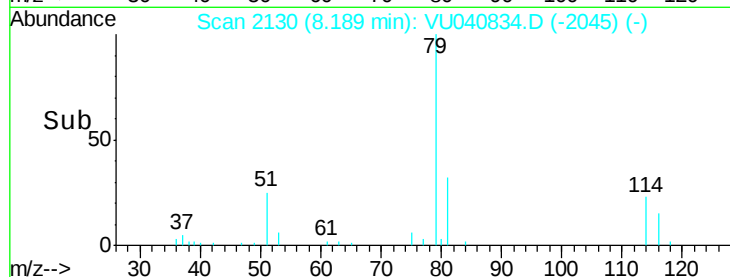
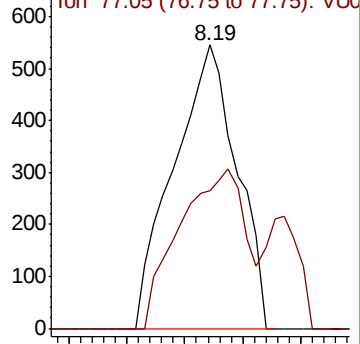
Ion Ratio Lower Upper

75 100

77 48.8 20.4 38.0#



Abundance Ion 75.05 (74.75 to 75.75): VU040834.D (-2119) (-)



#47

Tetrachloroethene

Concen: 0.070 ug/L

RT: 8.56 min Scan# 2244

Delta R.T. -0.00 min

Lab File: VU040834.D

Acq: 20 Oct 2020 03:19

Tgt Ion:164 Resp: 468

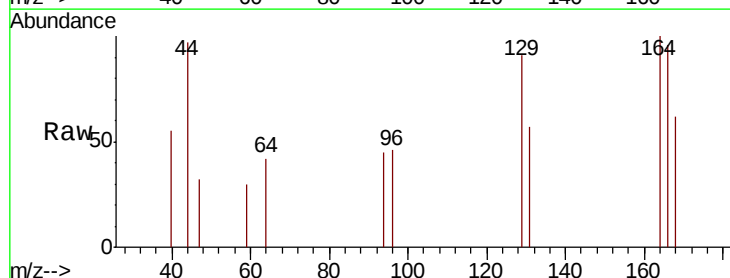
Ion Ratio Lower Upper

164 100

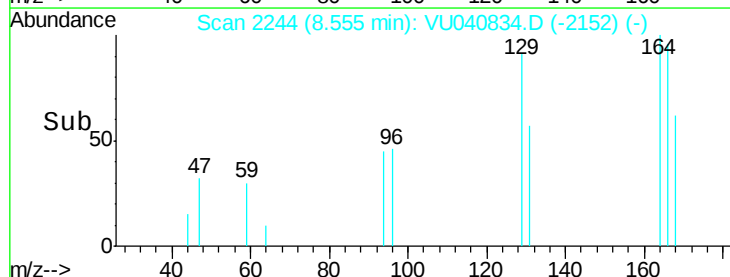
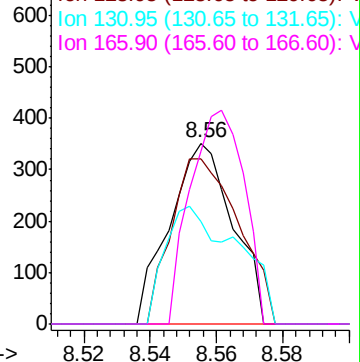
129 91.5 68.8 127.8

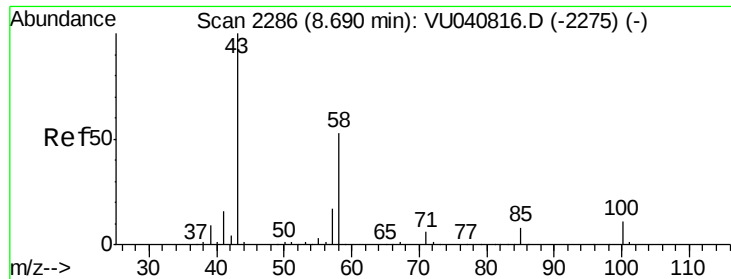
131 56.7 66.7 123.9#

166 96.0 83.9 155.7



Abundance Ion 163.90 (163.60 to 164.60): VU040834.D (-2232) (-)

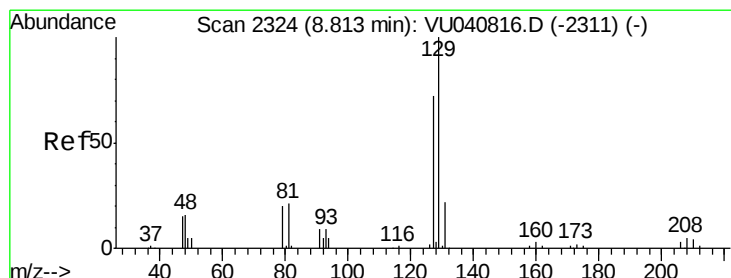
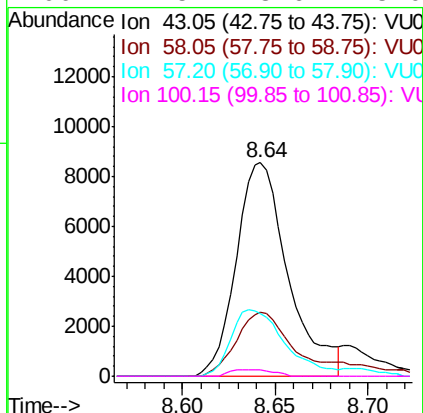
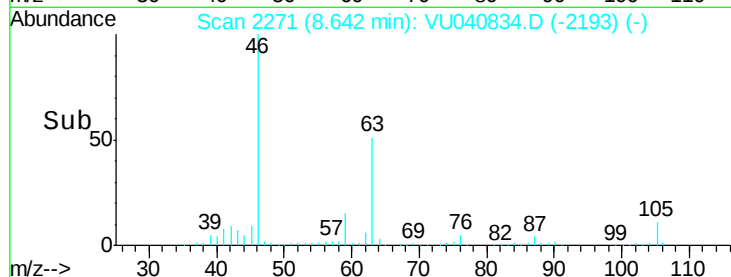
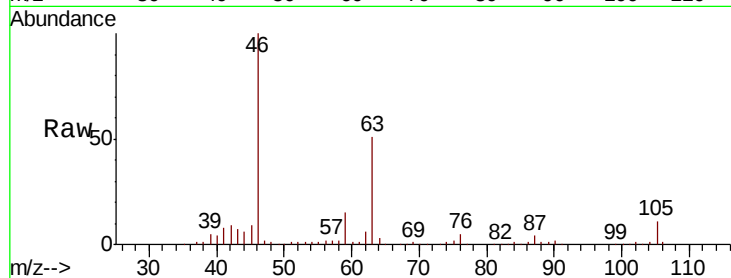




#48
2-Hexanone
Concen: 2.767 ug/L
RT: 8.64 min Scan# 2271
Delta R.T. -0.05 min
Lab File: VU040834.D
Acq: 20 Oct 2020 03:19

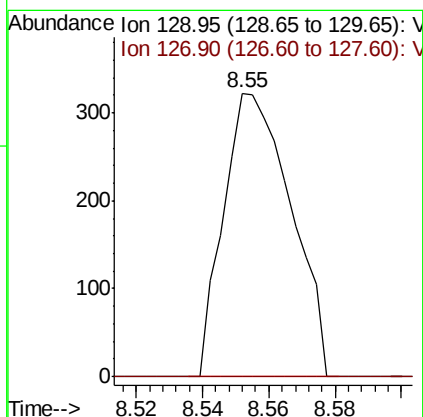
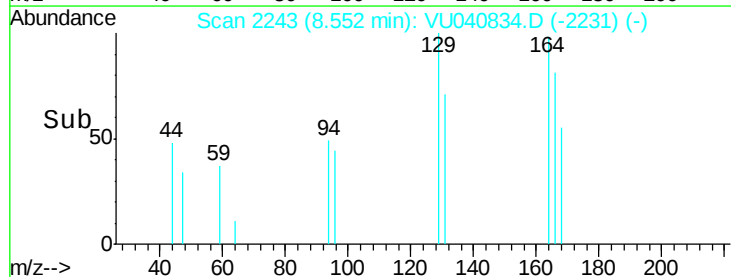
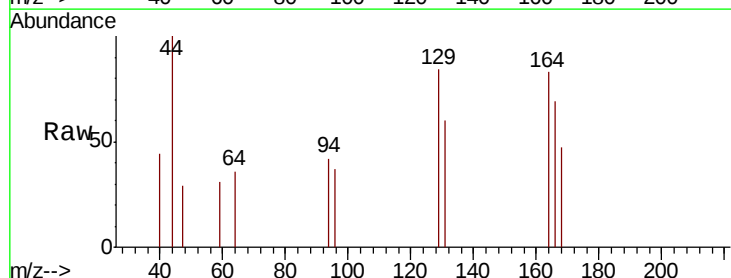
Instrument :
MSVOA_U
ClientSampleId :
ETZ30

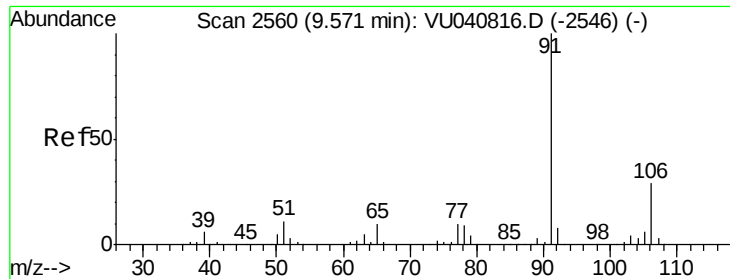
Tot Ion: 43 Resp: 16619
Ion Ratio Lower Upper
43 100
58 31.4 41.0 61.6#
57 32.5 14.4 21.6#
100 2.5 8.6 13.0#



#49
Dibromochloromethane
Concen: 0.052 ug/L
RT: 8.55 min Scan# 2243
Delta R.T. -0.26 min
Lab File: VU040834.D
Acq: 20 Oct 2020 03:19

Tgt Ion: 129 Resp: 456
Ion Ratio Lower Upper
129 100
127 0.0 55.8 103.6#





#52

Ethylbenzene

Concen: 0.043 ug/L

RT: 9.57 min Scan# 2559

Delta R.T. -0.00 min

Lab File: VU040834.D

Acq: 20 Oct 2020 03:19

Instrument :

MSVOA_U

ClientSampleId :

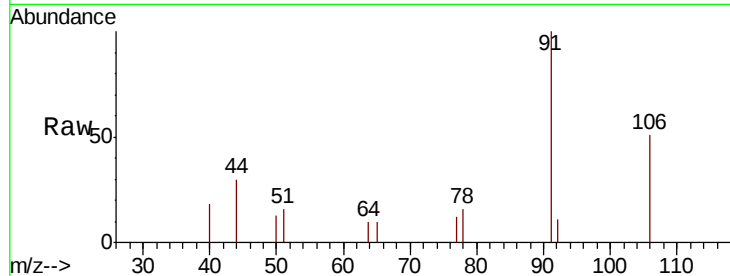
ETZ30

Tot Ion: 91 Resp: 1725

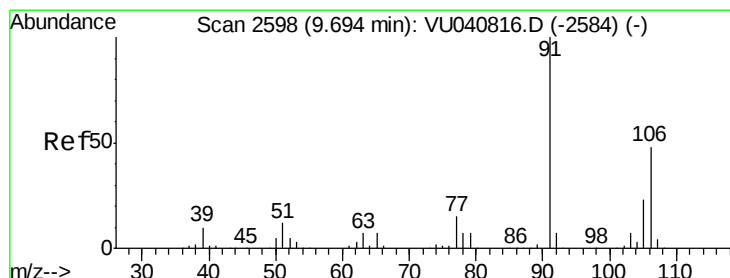
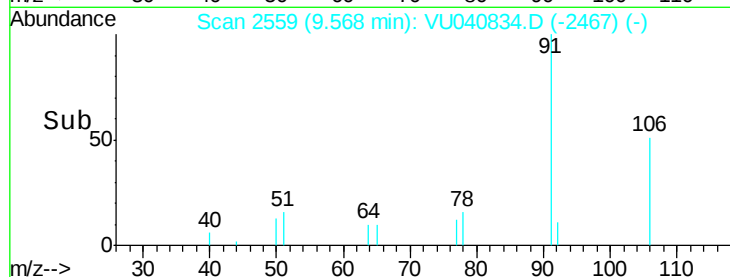
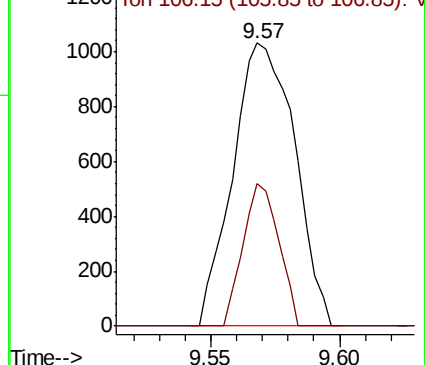
Ion Ratio Lower Upper

91 100

106 50.6 20.7 38.5#



Abundance Ion 91.15 (90.85 to 91.85): VU040816.D (-2546) (-)



#53

m,p-Xylene

Concen: 0.162 ug/L

RT: 9.70 min Scan# 2599

Delta R.T. 0.00 min

Lab File: VU040834.D

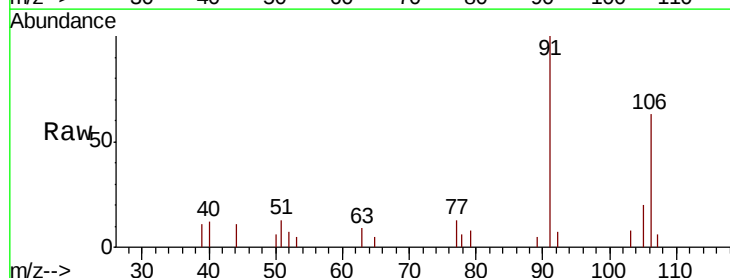
Acq: 20 Oct 2020 03:19

Tgt Ion: 106 Resp: 2372

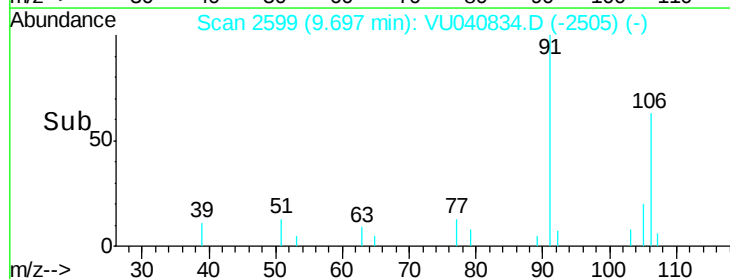
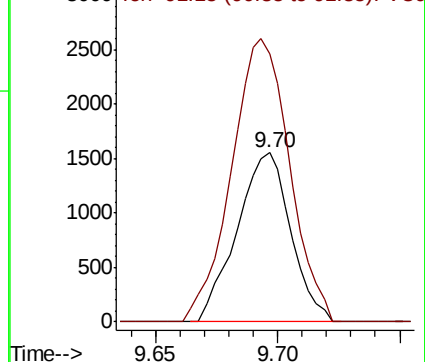
Ion Ratio Lower Upper

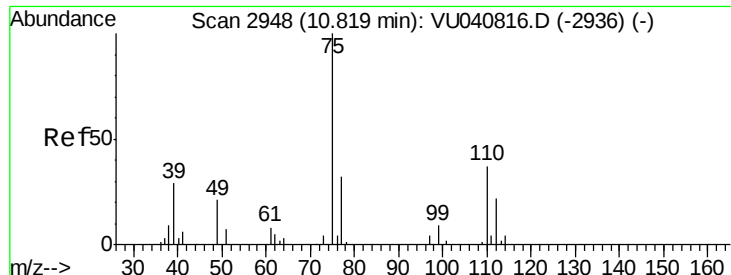
106 100

91 158.3 148.5 275.7



Abundance Ion 106.15 (105.85 to 106.85): VU040816.D (-2584) (-)





#59

1,2,3-Trichloropropane

Concen: 0.777 ug/L

RT: 11.81 min Scan# 3256

Delta R.T. 0.99 min

Lab File: VU040834.D

Acq: 20 Oct 2020 03:19

Instrument :

MSVOA_U

ClientSampleId :

ETZ30

Tot Ion: 75 Resp: 5778

Ion Ratio Lower Upper

75 100

77 35.8 26.4 39.6

