

Data Path : Z:\VOASRV\HPCHEM1\MSVOA U\DATA\U102020\
 Data File : VU040854.D
 Acq On : 20 Oct 2020 17:57
 Operator : SY/MD
 Sample : L4428-13
 Misc : 25.0mL/MSVOA U/WATER
 ALS Vial : 18 Sample Multiplier: 1

Instrument :
 MSVOA_U
 ClientSampleId :
 ETZ47

Quant Time: Oct 20 23:59:25 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	126579	5.00	ug/L	0.00
28) Chlorobenzene-d5	9.42	117	128405	5.00	ug/L	0.00
60) 1,4-Dichlorobenzene-d4	11.81	152	54511	5.00	ug/L	0.00

System Monitoring Compounds

4) Vinyl Chloride-d3	1.61	65	43906	4.19	ug/L	0.00
Spiked Amount	5.000	Range	40 - 130	Recovery	=	83.80%
7) Chloroethane-d5	1.92	69	36502	4.51	ug/L	0.00
Spiked Amount	5.000	Range	65 - 130	Recovery	=	90.20%
11) 1,1-Dichloroethene-d2	2.58	63	67827	3.31	ug/L	0.00
Spiked Amount	5.000	Range	60 - 125	Recovery	=	66.20%
20) 2-Butanone-d5	4.66	46	174521	52.00	ug/L	0.00
Spiked Amount	50.000	Range	40 - 130	Recovery	=	104.00%
24) Chloroform-d	5.08	84	84425	4.59	ug/L	0.00
Spiked Amount	5.000	Range	70 - 125	Recovery	=	91.80%
26) 1,2-Dichloroethane-d4	5.72	65	52364	4.67	ug/L	0.00
Spiked Amount	5.000	Range	70 - 130	Recovery	=	93.40%
32) Benzene-d6	5.75	84	155201	4.48	ug/L	0.00
Spiked Amount	5.000	Range	70 - 125	Recovery	=	89.60%
36) 1,2-Dichloropropane-d6	6.70	67	53950	4.69	ug/L	0.00
Spiked Amount	5.000	Range	60 - 140	Recovery	=	93.80%
41) Toluene-d8	7.91	98	127760	4.12	ug/L	0.00
Spiked Amount	5.000	Range	70 - 130	Recovery	=	82.40%
43) trans-1,3-Dichloropropene-	8.19	79	20334	4.18	ug/L	0.00
Spiked Amount	5.000	Range	55 - 130	Recovery	=	83.60%
46) 2-Hexanone-d5	8.64	63	132494	52.79	ug/L	0.00
Spiked Amount	50.000	Range	45 - 130	Recovery	=	105.58%
57) 1,1,2,2-Tetrachloroethane-	10.76	84	48048	4.66	ug/L	0.00
Spiked Amount	5.000	Range	65 - 120	Recovery	=	93.20%
64) 1,2-Dichlorobenzene-d4	12.19	152	51294	5.07	ug/L	0.00
Spiked Amount	5.000	Range	80 - 120	Recovery	=	101.40%

Target Compounds

Target Compounds	R.T.	QIon	Response	Conc	Units	Ovalue
3) Chloromethane	1.53	50	1473	0.137	ug/L #	68
5) Vinyl chloride	1.61	62	449549	39.801	ug/L	99
8) Chloroethane	1.94	64	575	0.080	ug/L #	58
12) 1,1-Dichloroethene	2.59	96	8070	0.894	ug/L #	1
17) Methyl tert-butyl Ether	3.39	73	3018	0.118	ug/L #	91
18) trans-1,2-Dichloroethene	3.37	96	15185	1.606	ug/L	99
22) cis-1,2-Dichloroethene	4.69	96	3463877	339.751	ug/L	100
25) Chloroform	5.11	83	2400	0.120	ug/L	85
30) Cyclohexane	5.41	56	2384	0.150	ug/L	96
34) Trichloroethene	6.56	95	2116111	197.892	ug/L	95
35) Methylcyclohexane	6.77	83	2203	0.145	ug/L #	60
37) 1,2-Dichloropropane	6.70	63	5866	0.510	ug/L #	87
39) cis-1,3-Dichloropropene	7.57	75	1441	0.092	ug/L #	78
42) Toluene	7.98	91	1453	0.035	ug/L	95
44) trans-1,3-Dichloropropene	8.18	75	853	0.059	ug/L #	82
45) 1,1,2-Trichloroethane	8.56	97	61549	7.150	ug/L #	1
47) Tetrachloroethene	8.57	164	5714927	749.099	ug/L	91

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

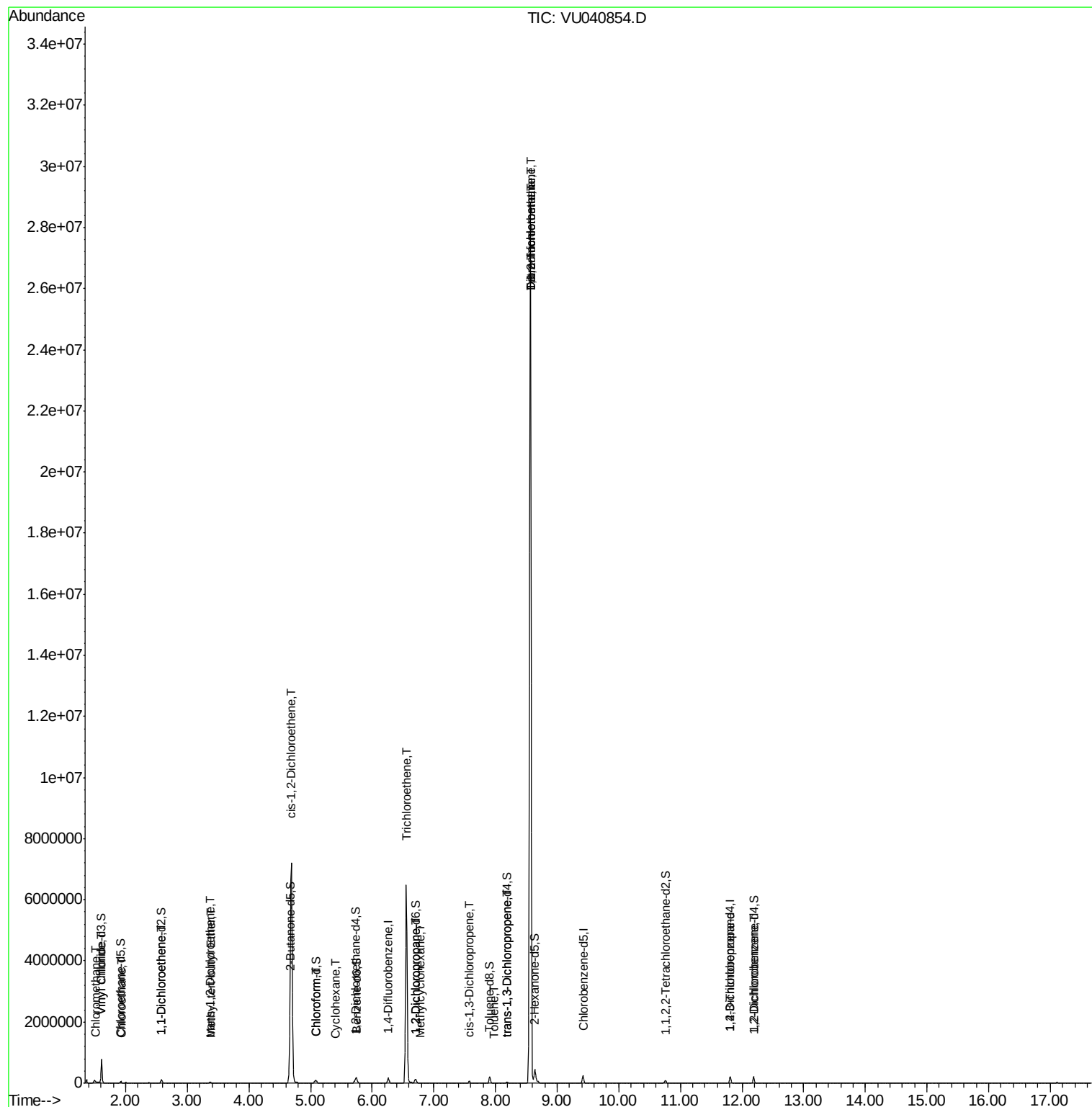
Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
49) Dibromochloromethane	8.57	129	6091201	614.953	uq/L #	9
59) 1,2,3-Trichloropropane	11.81	75	8080	0.957	uq/L	99
65) 1,2-Dichlorobenzene	12.21	146	1161	0.067	uq/L #	76

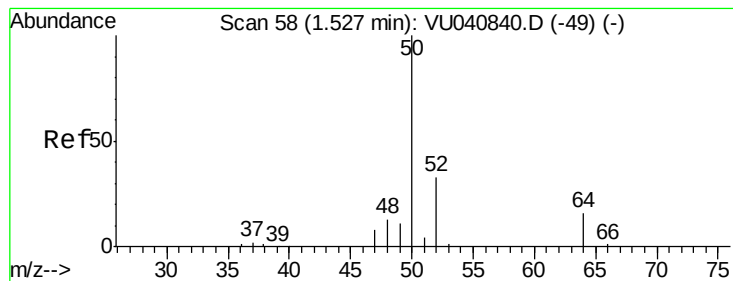
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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#3

Chloromethane

Concen: 0.137 ug/L

RT: 1.53 min Scan# 58

Delta R.T. -0.00 min

Lab File: VU040854.D

Acq: 20 Oct 2020 17:57

Instrument :

MSVOA_U

ClientSampleId :

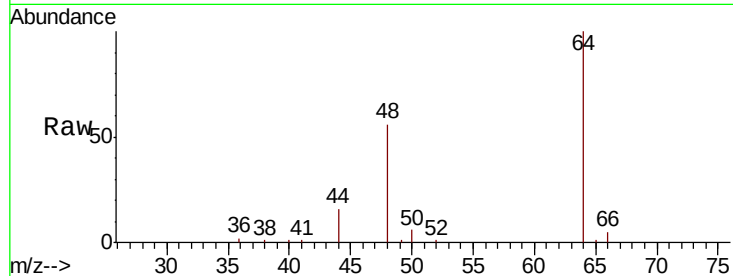
ETZ47

Tot Ion: 50 Resp: 1473

Ion Ratio Lower Upper

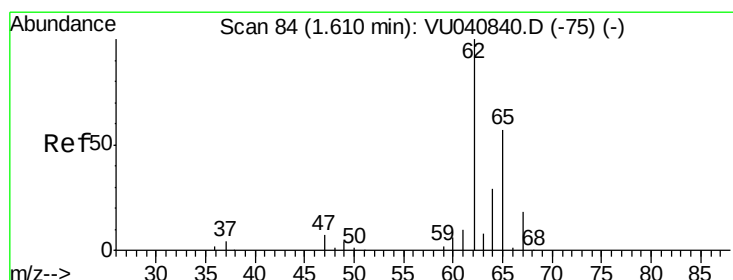
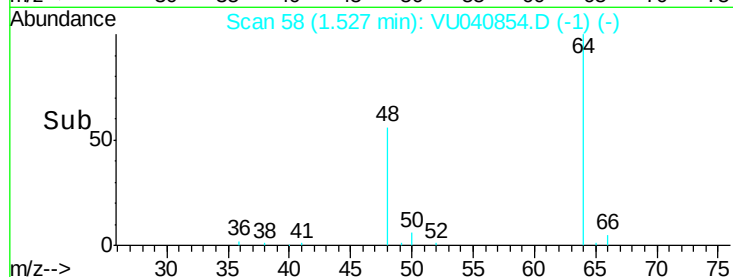
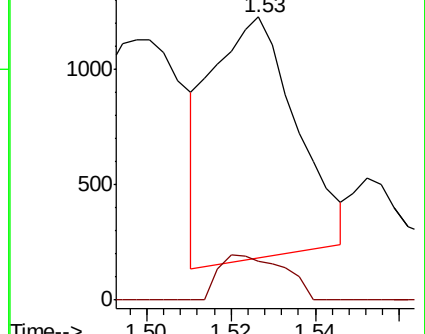
50 100

52 13.9 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: 39.801 ug/L

RT: 1.61 min Scan# 84

Delta R.T. -0.00 min

Lab File: VU040854.D

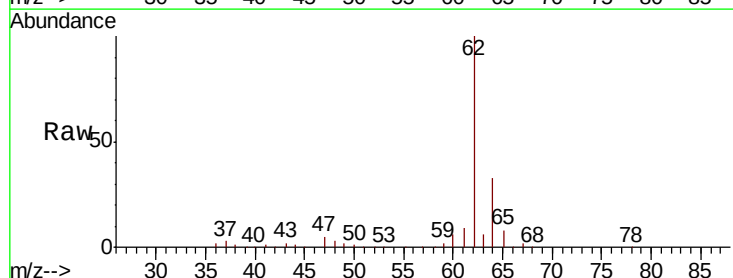
Acq: 20 Oct 2020 17:57

Tgt Ion: 62 Resp: 449549

Ion Ratio Lower Upper

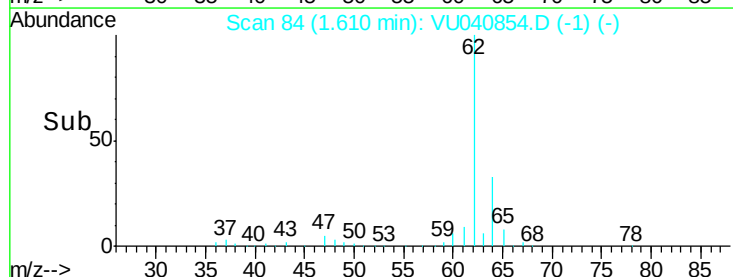
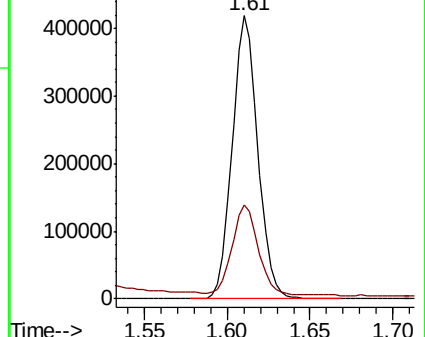
62 100

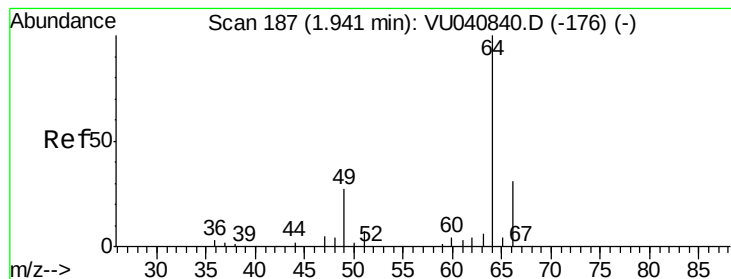
64 33.3 23.7 44.1



Abundance Ion 62.00 (61.70 to 62.70): VU0

Ion 64.10 (63.80 to 64.80): VU0





#8

Chloroethane

Concen: 0.080 ug/L

RT: 1.94 min Scan# 188

Delta R.T. 0.00 min

Lab File: VU040854.D

Acq: 20 Oct 2020 17:57

Instrument :

MSVOA_U

ClientSampleId :

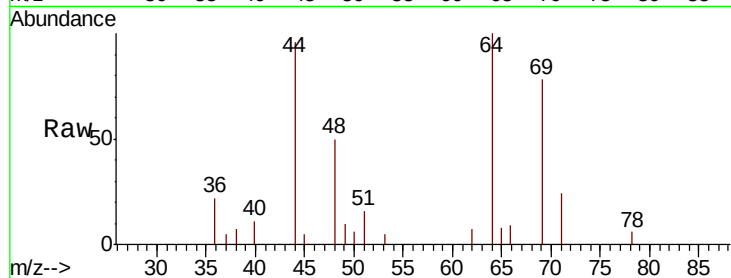
ETZ47

Tot Ion: 64 Resp: 575

Ion Ratio Lower Upper

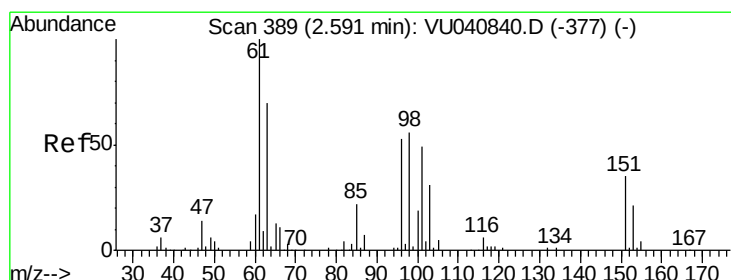
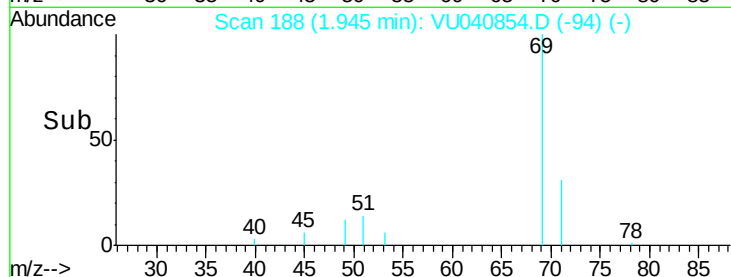
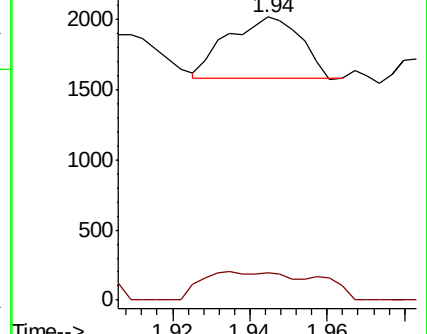
64 100

66 9.5 23.3 43.3#



Abundance Ion 64.10 (63.80 to 64.80): VU0

Ion 66.05 (65.75 to 66.75): VU0



#12

1,1-Dichloroethene

Concen: 0.894 ug/L

RT: 2.59 min Scan# 390

Delta R.T. 0.00 min

Lab File: VU040854.D

Acq: 20 Oct 2020 17:57

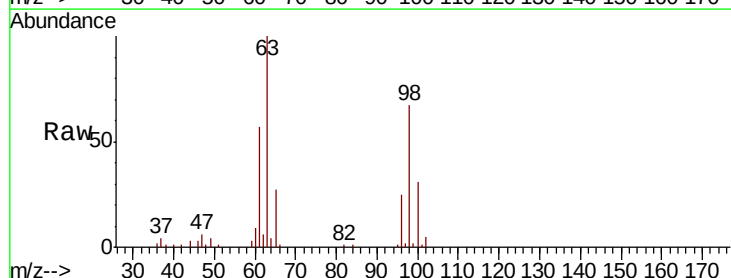
Tgt Ion: 96 Resp: 8070

Ion Ratio Lower Upper

96 100

61 225.9 128.8 239.2

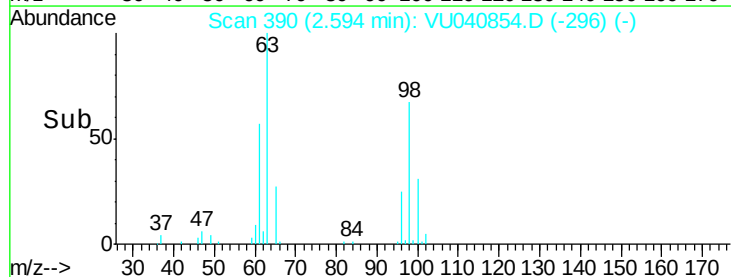
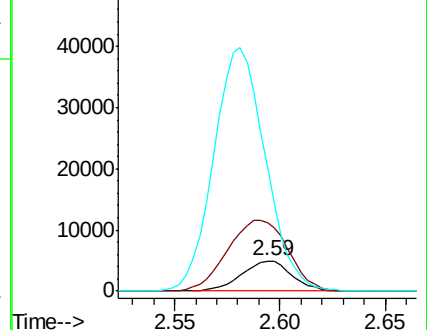
63 399.2 84.6 157.2#

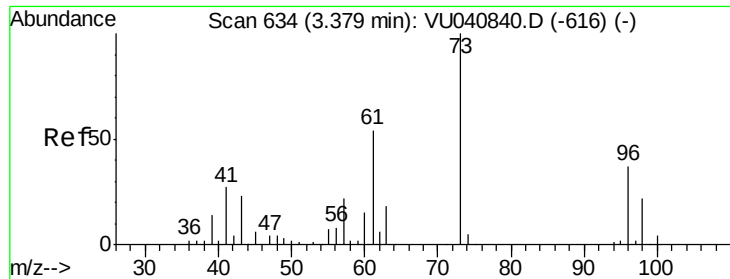


Abundance Ion 96.00 (95.70 to 96.70): VU0

Ion 61.05 (60.75 to 61.75): VU0

Ion 63.00 (62.70 to 63.70): VU0

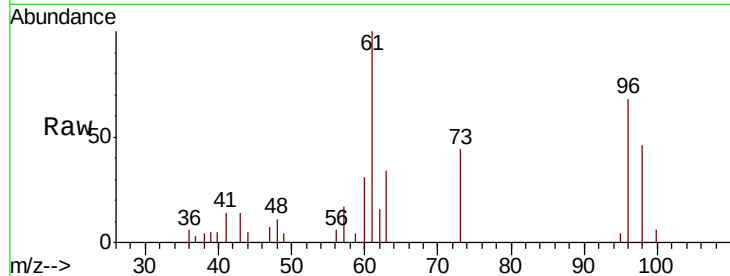




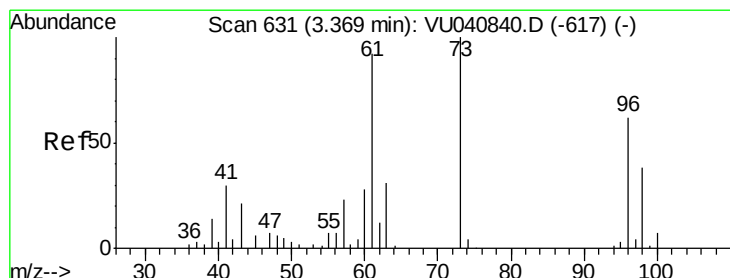
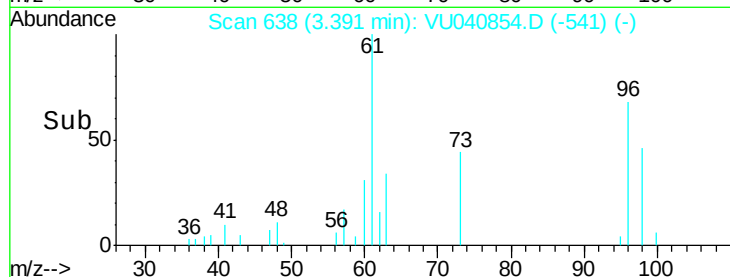
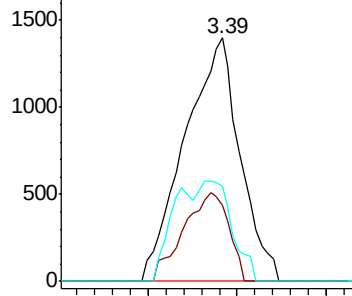
#17
Methyl tert-butyl Ether
Concen: 0.118 ug/L
RT: 3.39 min Scan# 638
Delta R.T. 0.01 min
Lab File: VU040854.D
Acq: 20 Oct 2020 17:57

Instrument :
MSVOA_U
ClientSampleId :
ETZ47

Tot Ion: 73 Resp: 3018
Ion Ratio Lower Upper
73 100
43 29.7 18.2 27.4#
57 25.2 18.6 28.0

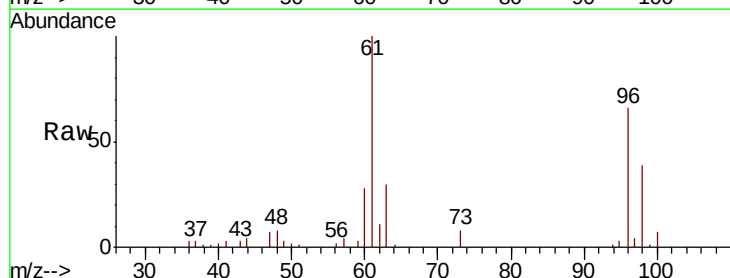


Abundance Ion 73.10 (72.80 to 73.80): VU0
Ion 43.05 (42.75 to 43.75): VU0
Ion 57.10 (56.80 to 57.80): VU0

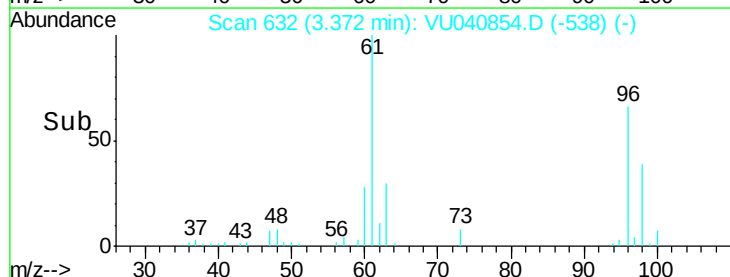
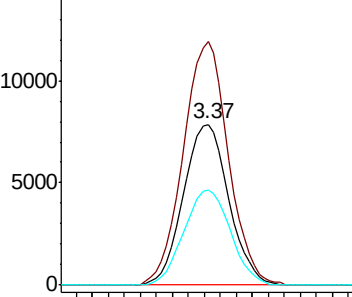


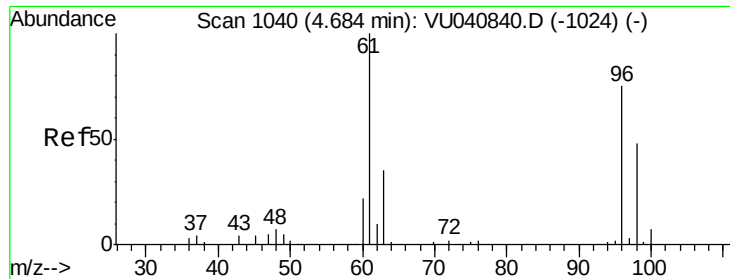
#18
trans-1,2-Dichloroethene
Concen: 1.606 ug/L
RT: 3.37 min Scan# 632
Delta R.T. 0.00 min
Lab File: VU040854.D
Acq: 20 Oct 2020 17:57

Tgt Ion: 96 Resp: 15185
Ion Ratio Lower Upper
96 100
61 151.5 105.9 196.7
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

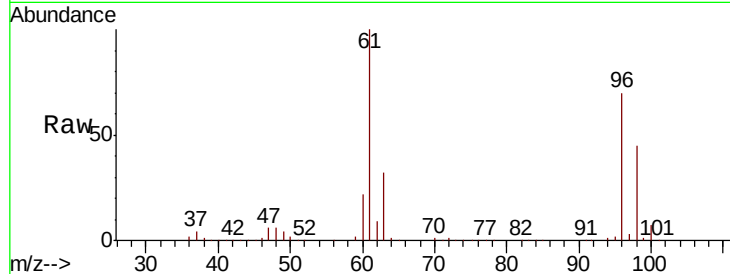




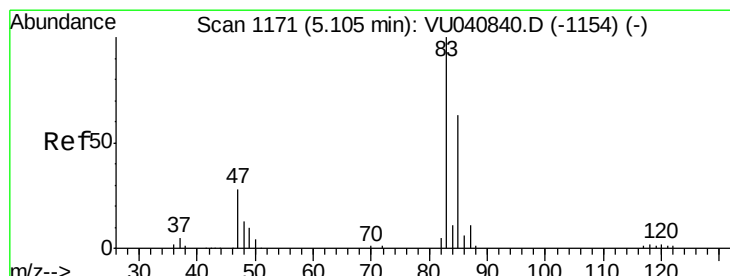
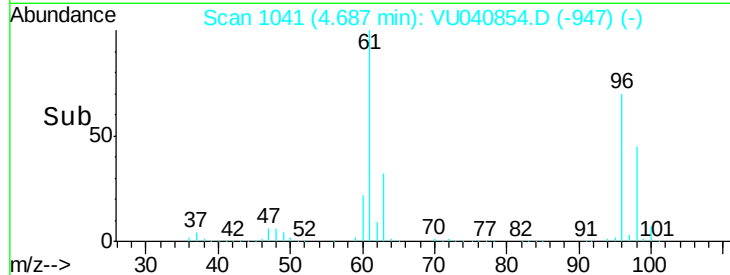
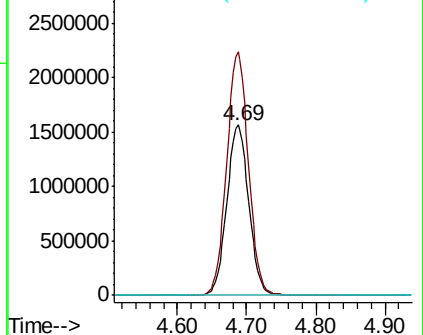
#22
 cis-1,2-Dichloroethene
 Concen: 339.751 ug/L
 RT: 4.69 min Scan# 1041
 Delta R.T. 0.00 min
 Lab File: VU040854.D
 Acq: 20 Oct 2020 17:57

Instrument :
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 ClientSampleId :
 ETZ47

Tot Ion: 96 Resp: 3463877
 Ion Ratio Lower Upper
 96 100
 61 143.0 99.8 185.4
 68 0.0 0.0 0.0

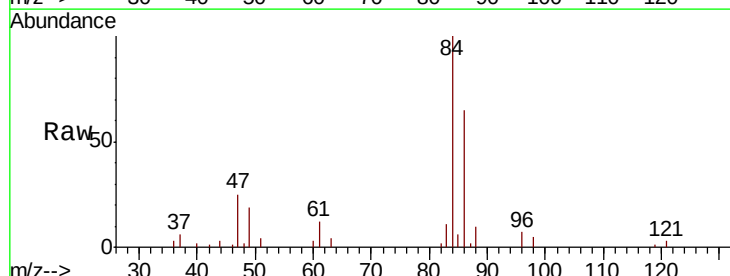


Abundance Ion 96.00 (95.70 to 96.70): VU0
 Ion 61.05 (60.75 to 61.75): VU0
 Ion 68.15 (67.85 to 68.85): VU0

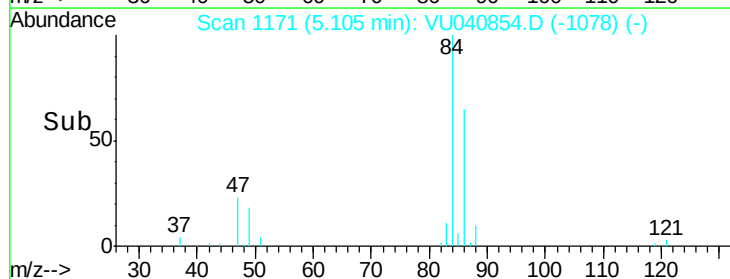
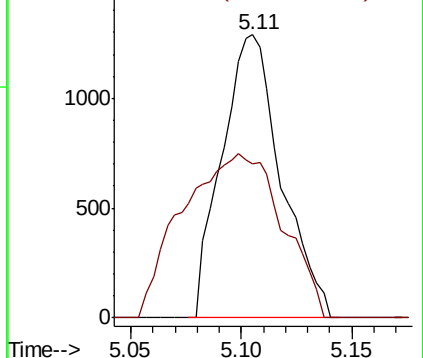


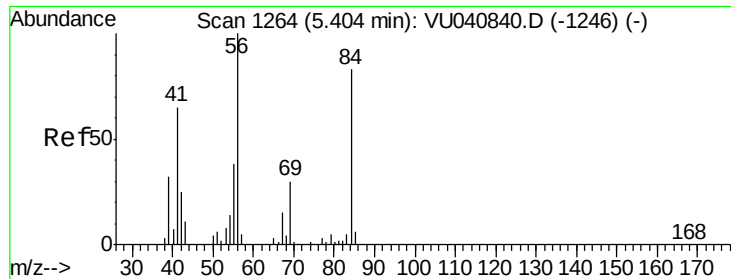
#25
 Chloroform
 Concen: 0.120 ug/L
 RT: 5.11 min Scan# 1171
 Delta R.T. -0.00 min
 Lab File: VU040854.D
 Acq: 20 Oct 2020 17:57

Tgt Ion: 83 Resp: 2400
 Ion Ratio Lower Upper
 83 100
 85 54.3 46.5 86.5



Abundance Ion 83.05 (82.75 to 83.75): VU0
 Ion 85.00 (84.70 to 85.70): VU0

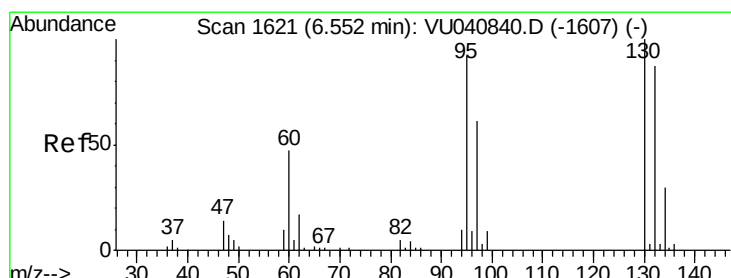
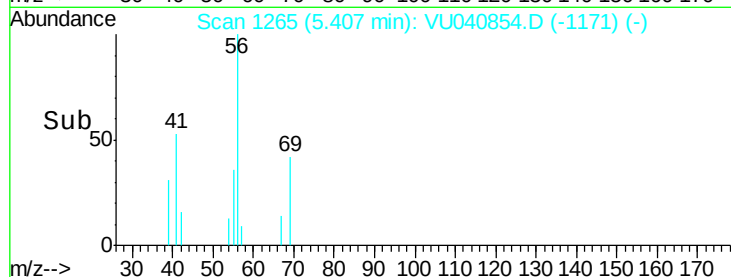
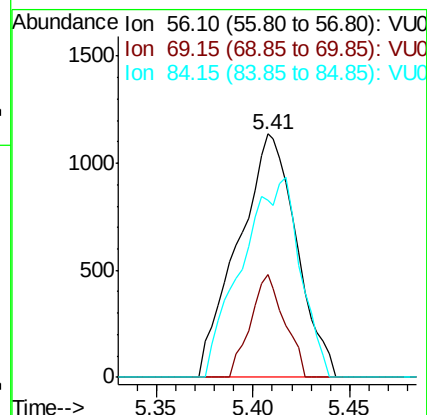
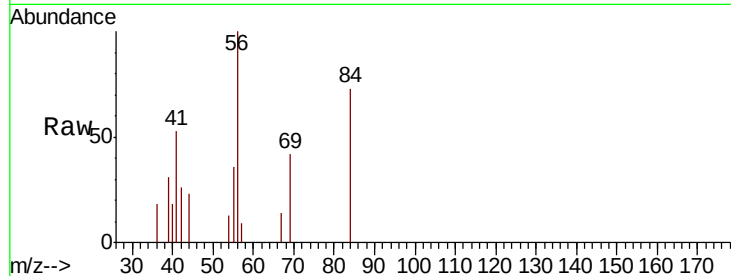




#30
Cyclohexane
Concen: 0.150 ug/L
RT: 5.41 min Scan# 1265
Delta R.T. 0.00 min
Lab File: VU040854.D
Acq: 20 Oct 2020 17:57

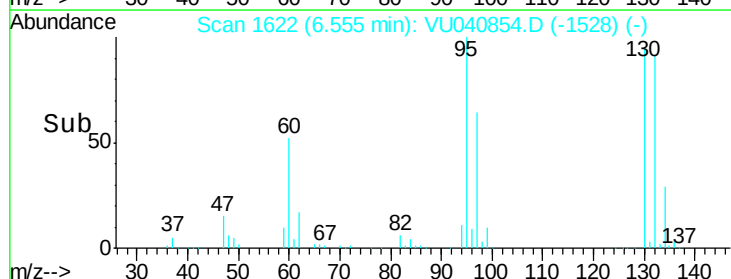
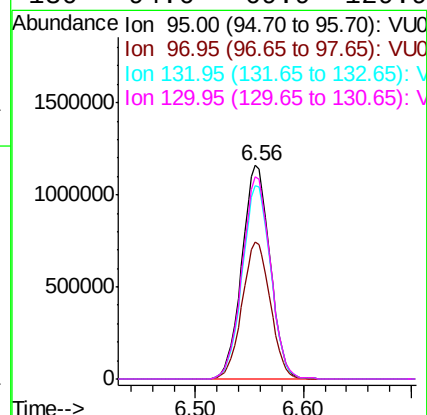
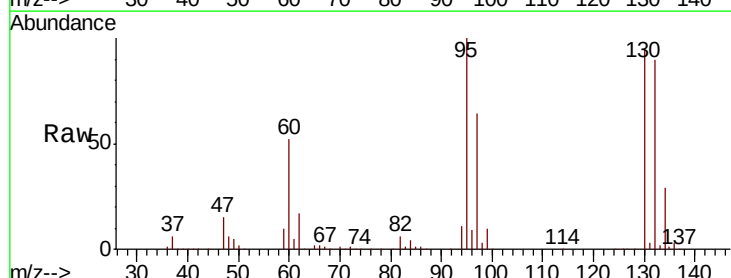
Instrument :
MSVOA_U
ClientSampled :
ETZ47

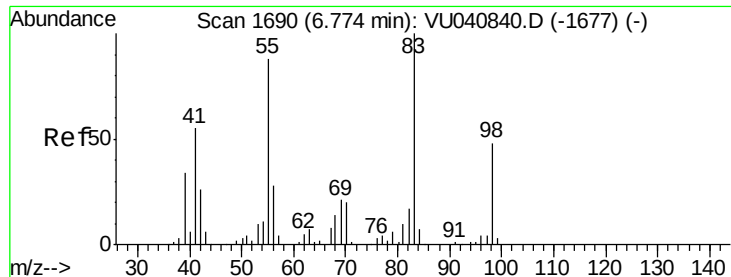
Tot Ion: 56 Resp: 2384
Ion Ratio Lower Upper
56 100
69 24.6 23.8 35.8
84 81.9 64.0 96.0



#34
Trichloroethene
Concen: 197.892 ug/L
RT: 6.56 min Scan# 1622
Delta R.T. 0.00 min
Lab File: VU040854.D
Acq: 20 Oct 2020 17:57

Tgt Ion: 95 Resp: 2116111
Ion Ratio Lower Upper
95 100
97 64.0 45.5 84.5
132 90.5 67.5 125.4
130 94.6 69.9 129.9

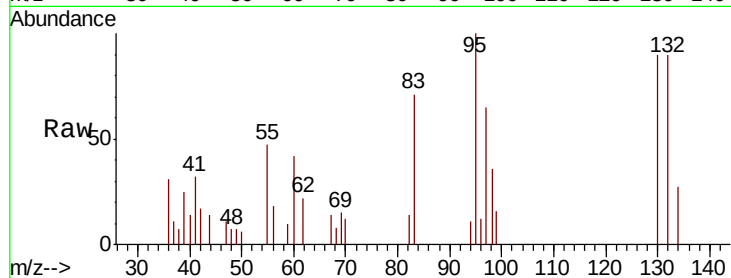




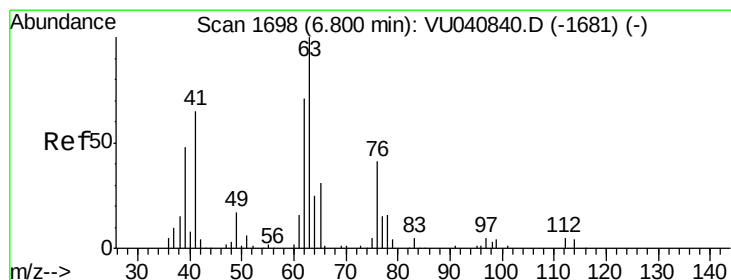
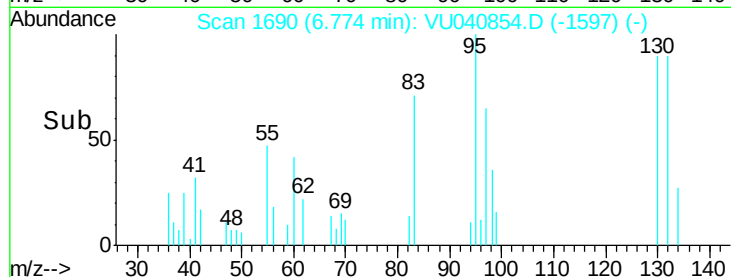
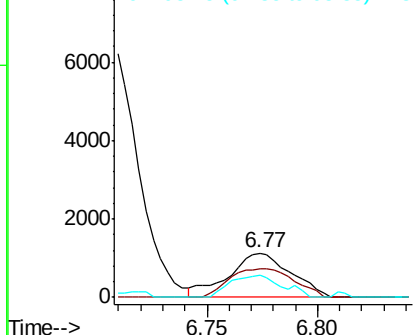
#35
Methylvlcyclohexane
Concen: 0.145 ug/L
RT: 6.77 min Scan# 1690
Delta R.T. -0.00 min
Lab File: VU040854.D
Acq: 20 Oct 2020 17:57

Instrument :
MSVOA_U
ClientSampled :
ETZ47

Tot Ion: 83 Resp: 2203
Ion Ratio Lower Upper
83 100
55 67.3 70.7 106.1#
98 0.0 38.4 57.6#

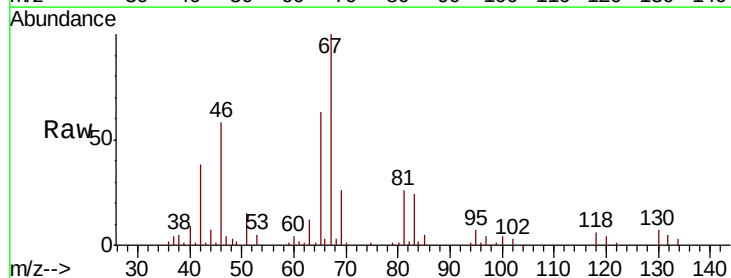


Abundance Ion 83.15 (82.85 to 83.85): VU0
Ion 55.10 (54.80 to 55.80): VU0
Ion 98.15 (97.85 to 98.85): VU0

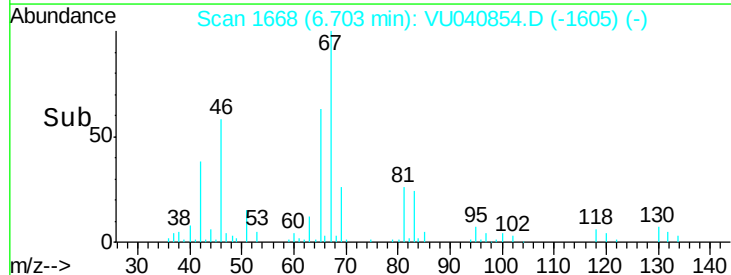
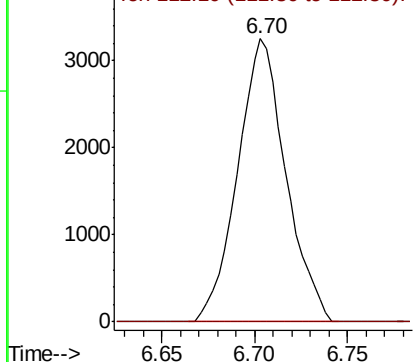


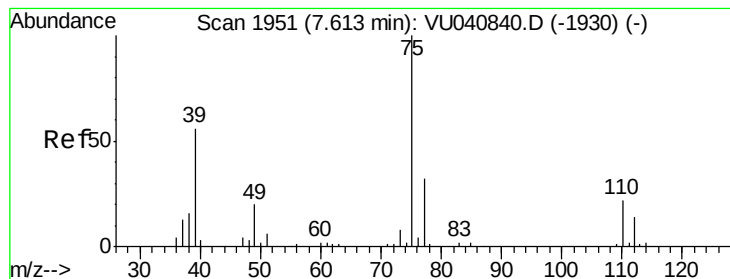
#37
1,2-Dichloropropane
Concen: 0.510 ug/L
RT: 6.70 min Scan# 1668
Delta R.T. -0.10 min
Lab File: VU040854.D
Acq: 20 Oct 2020 17:57

Tgt Ion: 63 Resp: 5866
Ion Ratio Lower Upper
63 100
112 0.0 3.5 5.3#



Abundance Ion 63.10 (62.80 to 63.80): VU0
Ion 112.10 (111.80 to 112.80): V





#39

cis-1,3-Dichloropropene

Concen: 0.092 ug/L

RT: 7.57 min Scan# 1939

Delta R.T. -0.04 min

Lab File: VU040854.D

Acq: 20 Oct 2020 17:57

Instrument :

MSVOA_U

ClientSampleId :

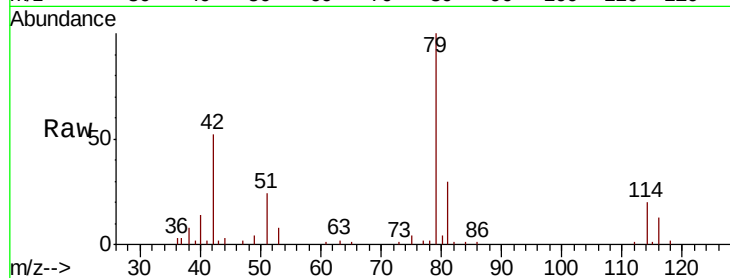
ETZ47

Tot Ion: 75 Resp: 1441

Ion Ratio Lower Upper

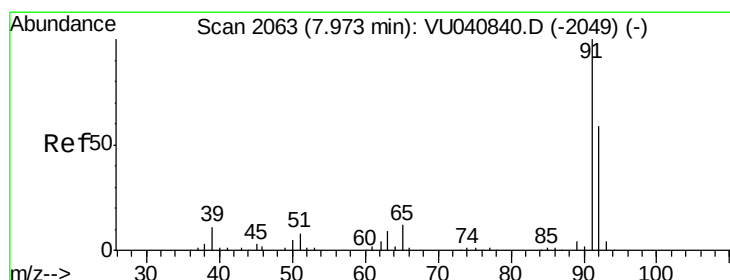
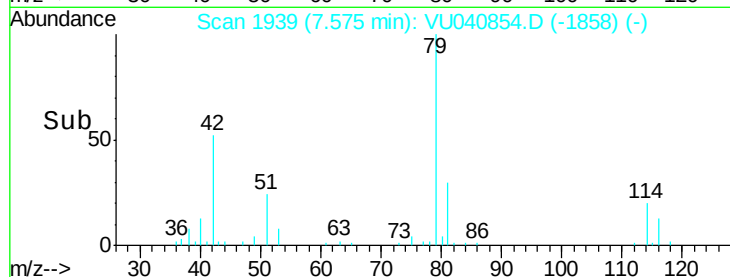
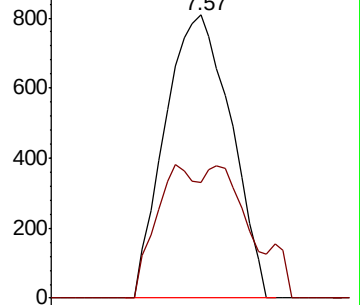
75 100

77 41.1 20.5 38.1#



Abundance Ion 75.05 (74.75 to 75.75): VU0

Ion 77.05 (76.75 to 77.75): VU0



#42

Toluene

Concen: 0.035 ug/L

RT: 7.98 min Scan# 2065

Delta R.T. 0.01 min

Lab File: VU040854.D

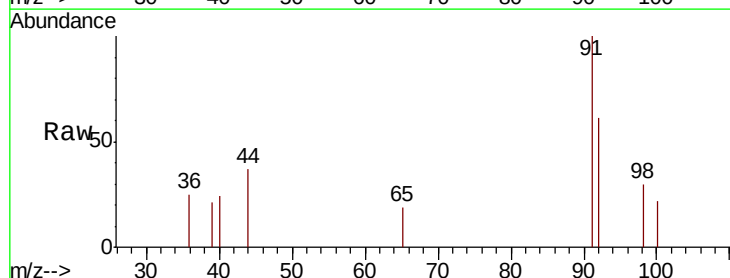
Acq: 20 Oct 2020 17:57

Tgt Ion: 91 Resp: 1453

Ion Ratio Lower Upper

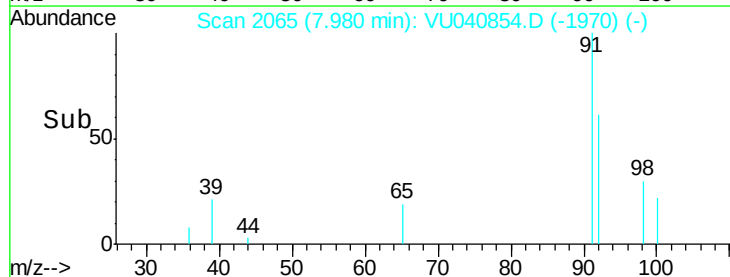
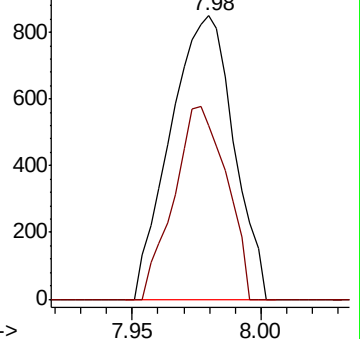
91 100

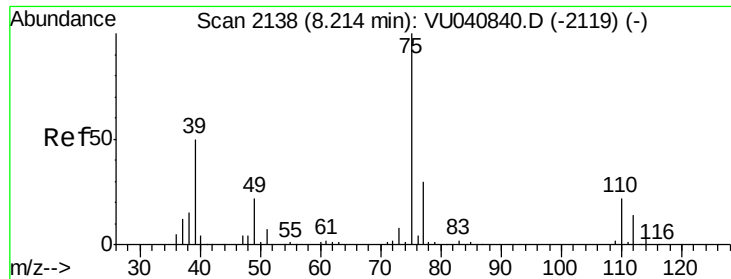
92 61.2 40.2 74.6



Abundance Ion 91.15 (90.85 to 91.85): VU0

Ion 92.15 (91.85 to 92.85): VU0





#44

trans-1,3-Dichloropropene

Concen: 0.059 ug/L

RT: 8.18 min Scan# 2128

Delta R.T. -0.03 min

Lab File: VU040854.D

Acq: 20 Oct 2020 17:57

Instrument :

MSVOA_U

ClientSampleId :

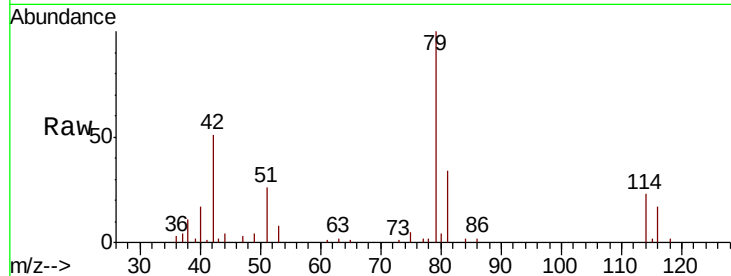
ETZ47

Tot Ion: 75 Resp: 853

Ion Ratio Lower Upper

75 100

77 38.9 20.4 38.0#



Abundance Ion 75.05 (74.75 to 75.75): VU0

Ion 77.05 (76.75 to 77.75): VU0

8.18

600

500

400

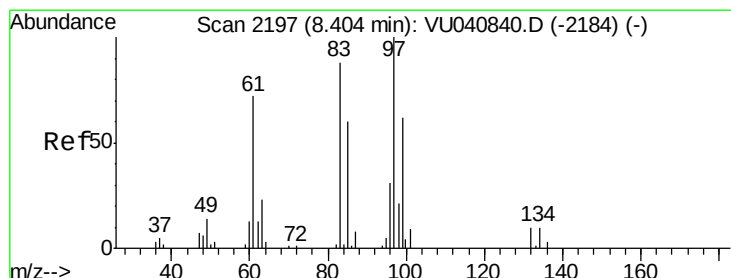
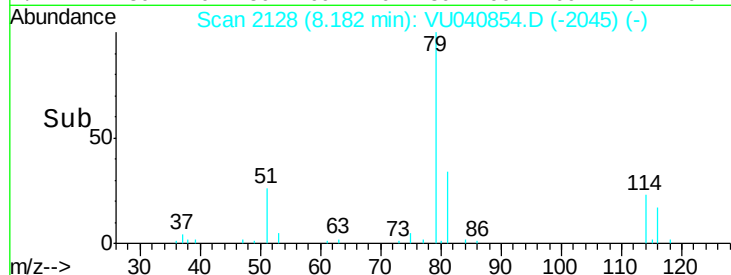
300

200

100

0

Time--> 8.14 8.16 8.18 8.20 8.22



#45

1,1,2-Trichloroethane

Concen: 7.150 ug/L

RT: 8.56 min Scan# 2247

Delta R.T. 0.16 min

Lab File: VU040854.D

Acq: 20 Oct 2020 17:57

Tgt Ion: 97 Resp: 61549

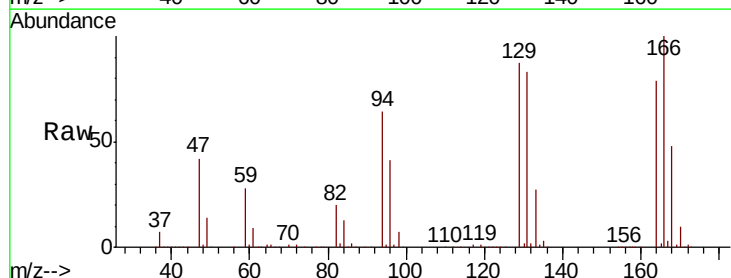
Ion Ratio Lower Upper

97 100

99 15.6 44.0 81.6#

83 269.8 62.9 116.9#

85 40.5 40.3 74.8



Abundance Ion 96.95 (96.65 to 97.65): VU0

Ion 99.05 (98.75 to 99.75): VU0

Ion 82.95 (82.65 to 83.65): VU0

Ion 85.00 (84.70 to 85.70): VU0

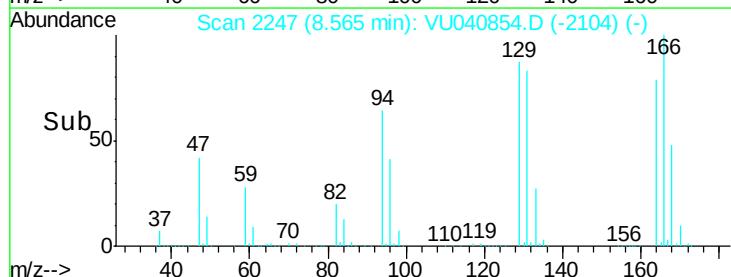
150000

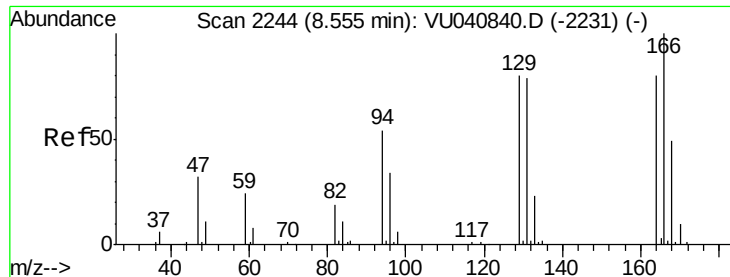
100000

50000

0

Time--> 8.50 8.55 8.60 8.65



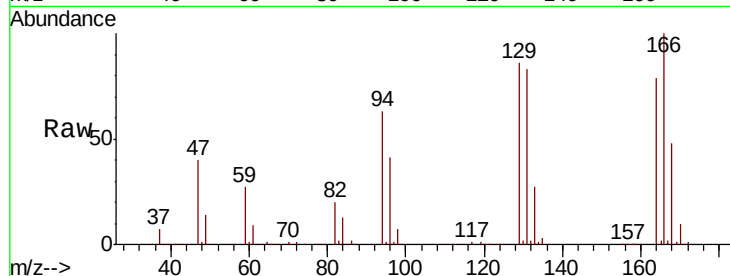


#47
Tetrachloroethene
Concen: 749.099 ug/L
RT: 8.57 min Scan# 2248
Delta R.T. 0.01 min
Lab File: VU040854.D
Acq: 20 Oct 2020 17:57

Instrument :
MSVOA_U
ClientSampleId :
ETZ47

Tot Ion:164 Resp: 5714927

Ion	Ratio	Lower	Upper
164	100		
129	109.3	68.8	127.8
131	105.3	66.7	123.9
166	127.3	83.9	155.7



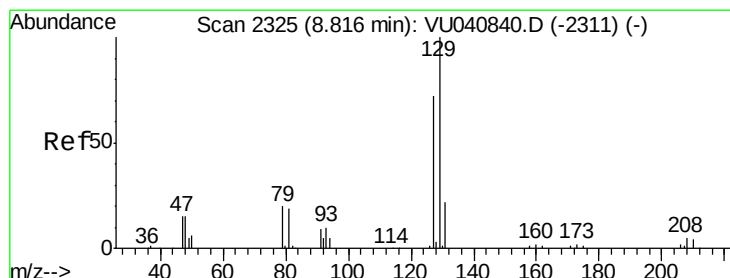
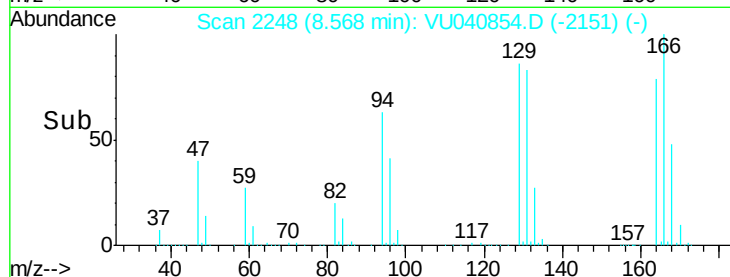
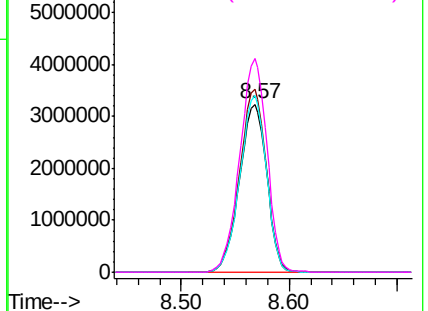
Abundance

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

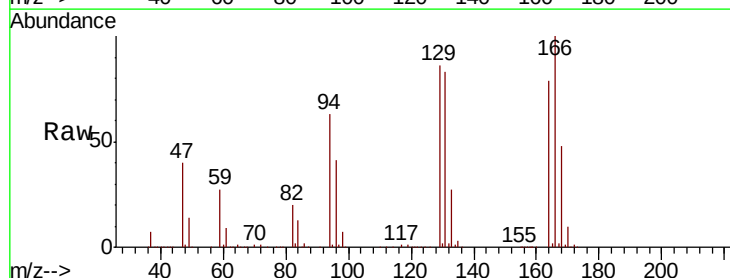
Ion 165.90 (165.60 to 166.60): V



#49
Dibromochloromethane
Concen: 614.953 ug/L
RT: 8.57 min Scan# 2248
Delta R.T. -0.25 min
Lab File: VU040854.D
Acq: 20 Oct 2020 17:57

Tgt Ion:129 Resp: 6091201

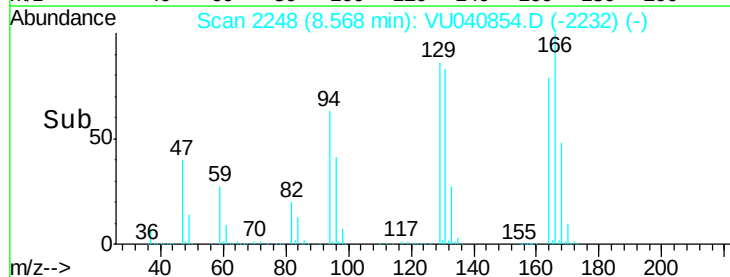
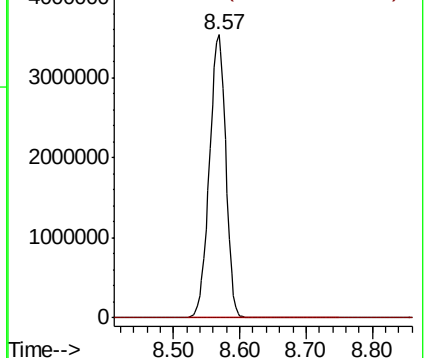
Ion	Ratio	Lower	Upper
129	100		
127	0.0	55.8	103.6#

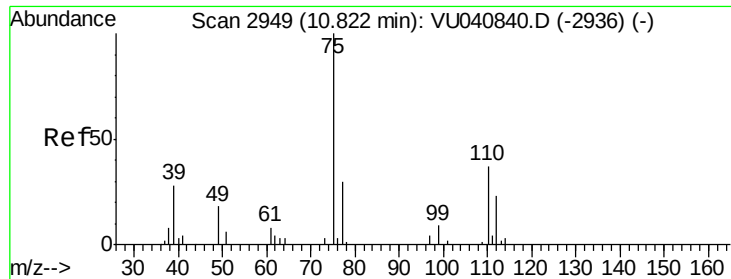


Abundance

Ion 128.95 (128.65 to 129.65): V

Ion 126.90 (126.60 to 127.60): V





#59

1,2,3-Trichloropropane

Concen: 0.957 ug/L

RT: 11.81 min Scan# 3256

Delta R.T. 0.99 min

Lab File: VU040854.D

Acq: 20 Oct 2020 17:57

Instrument :

MSVOA_U

ClientSampleId :

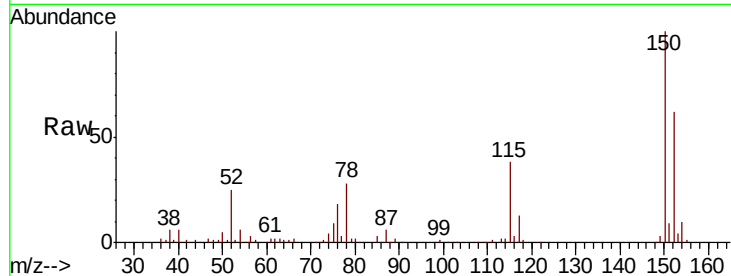
ETZ47

Tot Ion: 75 Resp: 8080

Ion Ratio Lower Upper

75 100

77 32.3 26.4 39.6



Abundance Ion 75.00 (74.70 to 75.70): VU040854.D (-3256) (-)

Ion 77.00 (76.70 to 77.70): VU040854.D (-3256) (-)

11.81

5000

4000

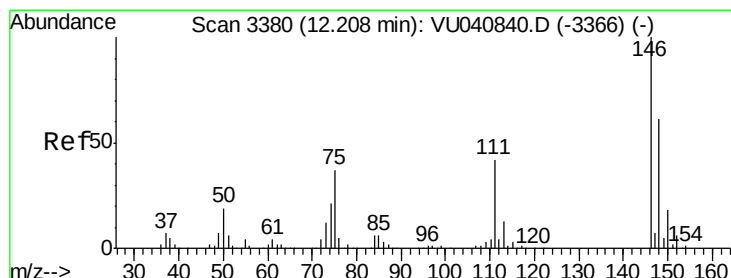
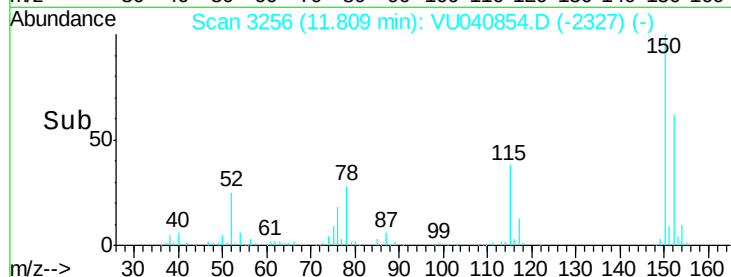
3000

2000

1000

0

Time-->



#65

1,2-Dichlorobenzene

Concen: 0.067 ug/L

RT: 12.21 min Scan# 3380

Delta R.T. -0.00 min

Lab File: VU040854.D

Acq: 20 Oct 2020 17:57

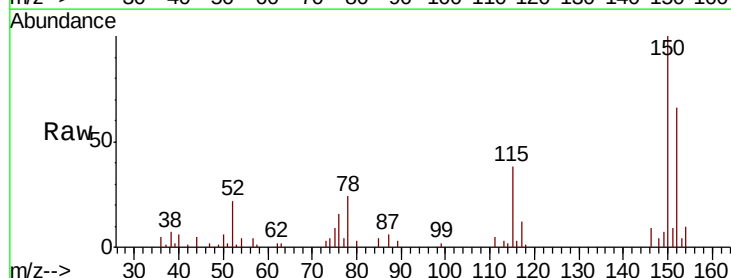
Tgt Ion: 146 Resp: 1161

Ion Ratio Lower Upper

146 100

111 54.4 34.4 51.6#

148 40.1 50.0 75.0#



Abundance Ion 145.95 (145.65 to 146.65): VU040854.D (-3380) (-)

Ion 111.00 (110.70 to 111.70): VU040854.D (-3380) (-)

Ion 148.00 (147.70 to 148.70): VU040854.D (-3380) (-)

12.21

1000

800

600

400

200

0

Time-->

