

Data Path : Z:\VOASRV\HPCHEM1\MSVOA U\DATA\U122120\
 Data File : VU041721.D
 Acq On : 22 Dec 2020 01:19
 Operator : SY/MD
 Sample : L5161-03MSD
 Misc : 25.0mL/MSVOA U/WATER
 ALS Vial : 33 Sample Multiplier: 1

Instrument :
 MSVOA_U
 ClientSampleId :
 GB228MSD

Quant Time: Dec 22 06:04:01 2020
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_U\METHOD\SOMUTR121220WMA.M
 Quant Title : TRACE VOA SOM01.0
 QLast Update : Tue Dec 22 05:59:09 2020
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Difluorobenzene	6.26	114	133766	5.00	ug/L	0.00
28) Chlorobenzene-d5	9.42	117	127190	5.00	ug/L	0.00
60) 1,4-Dichlorobenzene-d4	11.81	152	59001	5.00	ug/L	0.00

System Monitoring Compounds

4) Vinyl Chloride-d3	1.60	65	40084	3.83	ug/L	0.00
Spiked Amount	5.000	Range	40 - 130	Recovery	=	76.60%
7) Chloroethane-d5	1.92	69	37290	4.61	ug/L	0.00
Spiked Amount	5.000	Range	65 - 130	Recovery	=	92.20%
11) 1,1-Dichloroethene-d2	2.58	63	79391	4.12	ug/L	0.00
Spiked Amount	5.000	Range	60 - 125	Recovery	=	82.40%
20) 2-Butanone-d5	4.65	46	183870	61.21	ug/L	0.00
Spiked Amount	50.000	Range	40 - 130	Recovery	=	122.42%
24) Chloroform-d	5.08	84	87915	4.91	ug/L	0.00
Spiked Amount	5.000	Range	70 - 125	Recovery	=	98.20%
26) 1,2-Dichloroethane-d4	5.72	65	52539	5.17	ug/L	0.00
Spiked Amount	5.000	Range	70 - 130	Recovery	=	103.40%
32) Benzene-d6	5.74	84	172268	4.73	ug/L	0.00
Spiked Amount	5.000	Range	70 - 125	Recovery	=	94.60%
36) 1,2-Dichloropropane-d6	6.70	67	58812	5.15	ug/L	0.00
Spiked Amount	5.000	Range	60 - 140	Recovery	=	103.00%
41) Toluene-d8	7.90	98	158513	4.82	ug/L	0.00
Spiked Amount	5.000	Range	70 - 130	Recovery	=	96.40%
43) trans-1,3-Dichloropropene-	8.19	79	24888	4.85	ug/L	0.00
Spiked Amount	5.000	Range	55 - 130	Recovery	=	97.00%
46) 2-Hexanone-d5	8.64	63	180252	64.22	ug/L	0.00
Spiked Amount	50.000	Range	45 - 130	Recovery	=	128.44%
57) 1,1,2,2-Tetrachloroethane-	10.75	84	56723	5.47	ug/L	0.00
Spiked Amount	5.000	Range	65 - 120	Recovery	=	109.40%
64) 1,2-Dichlorobenzene-d4	12.19	152	55188	5.26	ug/L	0.00
Spiked Amount	5.000	Range	80 - 120	Recovery	=	105.20%

Target Compounds

					Ovalue
3) Chloromethane	1.52	50	519	0.047 ug/L	94
10) 1,1,2-Trichloro-1,2,2-trif	2.58	101	651	0.071 ug/L #	22
12) 1,1-Dichloroethene	2.59	96	45266	4.988 ug/L	93
13) Acetone	2.66	43	6514	3.409 ug/L	66
21) 2-Butanone	4.74	43	2331	0.749 ug/L	91
25) Chloroform	5.11	83	19809	1.121 ug/L	95
27) 1,2-Dichloroethane	5.79	62	2294	0.192 ug/L #	73
31) Carbon tetrachloride	5.54	117	18256	1.445 ug/L	98
33) Benzene	5.79	78	210517	5.175 ug/L	100
34) Trichloroethene	6.55	95	55930	5.472 ug/L	97
35) Methylcyclohexane	6.70	83	14229	0.861 ug/L #	19
37) 1,2-Dichloropropane	6.70	63	5817	0.559 ug/L #	88
39) cis-1,3-Dichloropropene	7.57	75	1401	0.091 ug/L #	52
42) Toluene	7.97	91	224983	5.357 ug/L	99
44) trans-1,3-Dichloropropene	8.18	75	980	0.071 ug/L #	51
47) Tetrachloroethene	8.56	164	1406	0.196 ug/L	95
48) 2-Hexanone	8.64	43	17930	3.328 ug/L #	39

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GB228MSD

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Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_U\METHOD\SOMUTR121220WMA.M
Quant Title : TRACE VOA SOM01.0
QLast Update : Tue Dec 22 05:59:09 2020
Response via : Initial Calibration

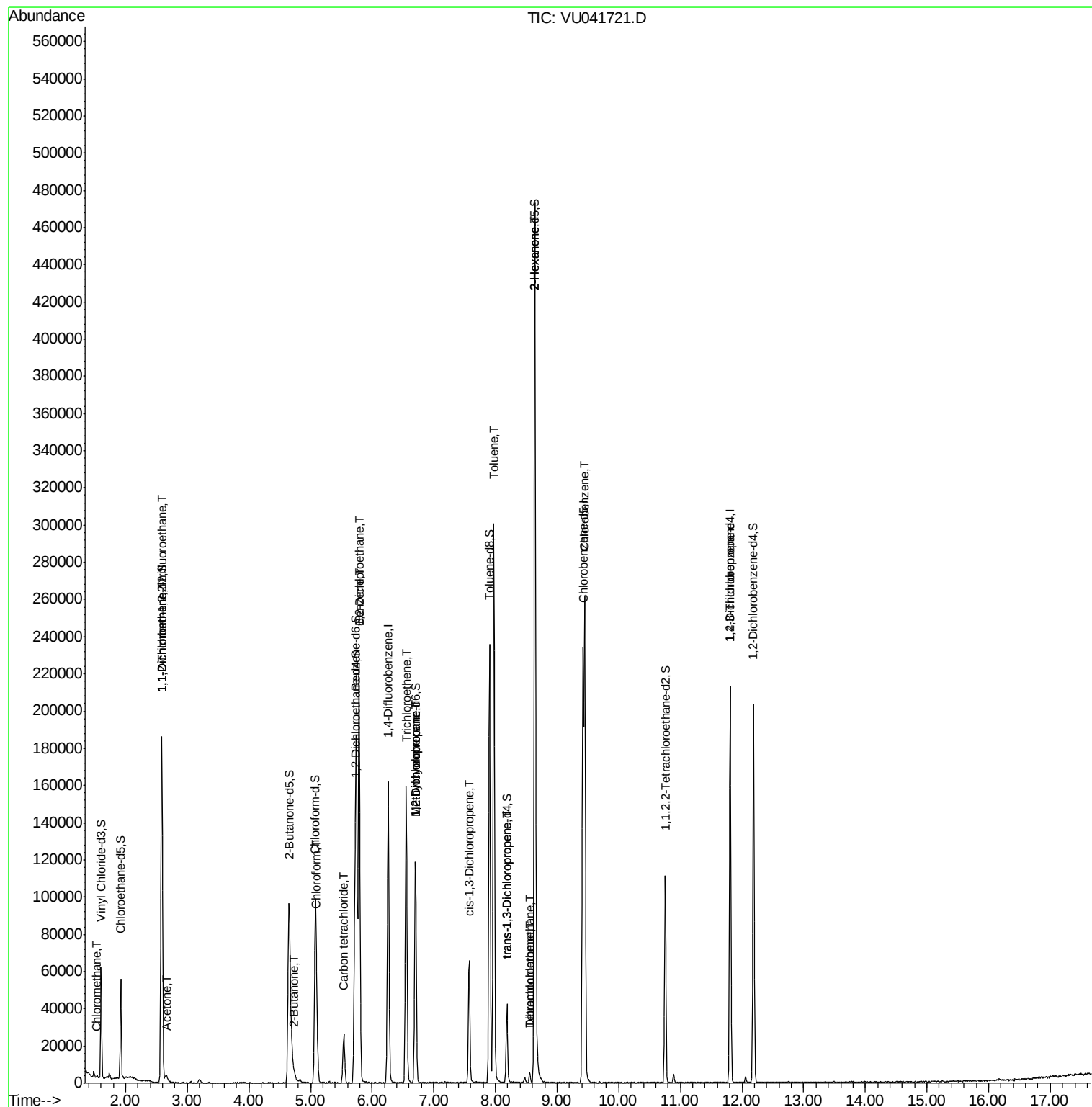
Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
49) Dibromochloromethane	8.56	129	1350	0.153	ug/L #	10
51) Chlorobenzene	9.45	112	140878	5.397	ug/L	99
59) 1,2,3-Trichloropropane	11.81	75	6092	0.780	ug/L #	42

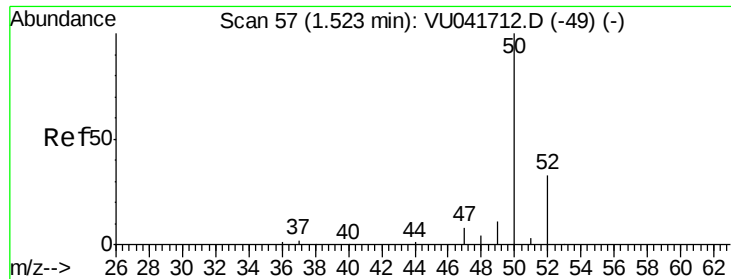
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\V0ASRV\HPCHEM1\MSVOA U\DATA\VU122120\
Data File : VU041721.D
Acq On : 22 Dec 2020 01:19
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Response via : Initial Calibration





#3

Chloromethane

Concen: 0.047 ug/L

RT: 1.52 min Scan# 57

Delta R.T. -0.00 min

Lab File: VU041721.D

Acq: 22 Dec 2020 01:19

Instrument :

MSVOA_U

ClientSampleId :

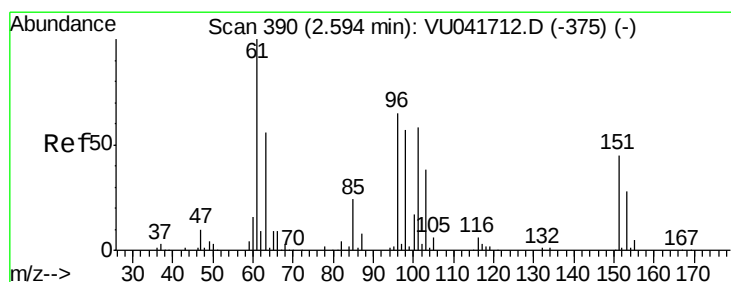
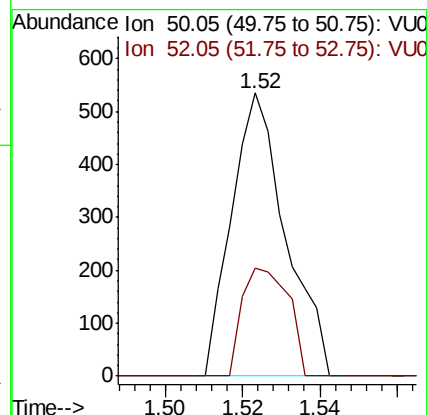
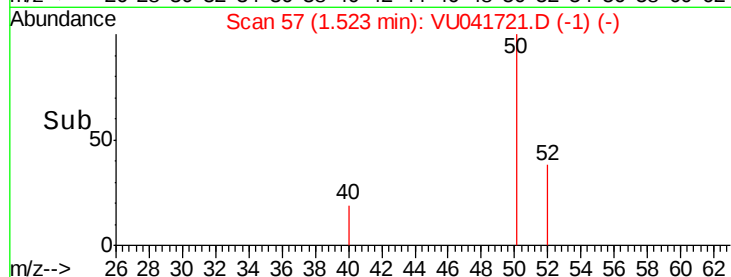
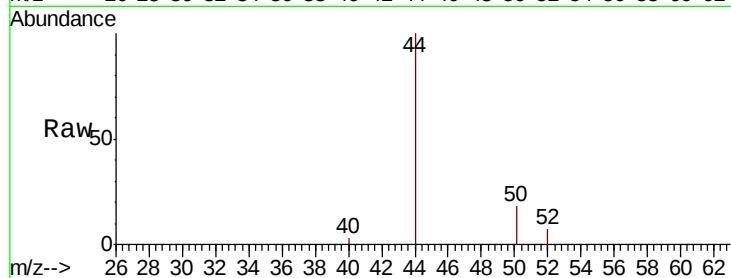
GB228MSD

Tot Ion: 50 Resp: 519

Ion Ratio Lower Upper

50 100

52 38.1 24.1 44.8



#10

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

Concen: 0.071 ug/L

RT: 2.58 min Scan# 385

Delta R.T. -0.02 min

Lab File: VU041721.D

Acq: 22 Dec 2020 01:19

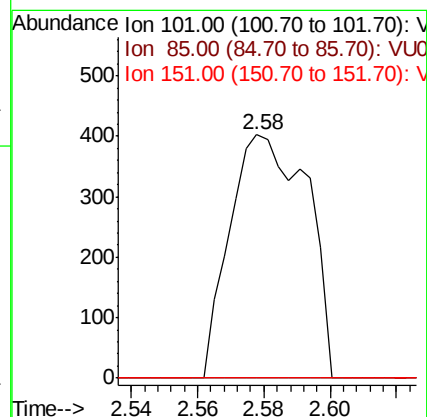
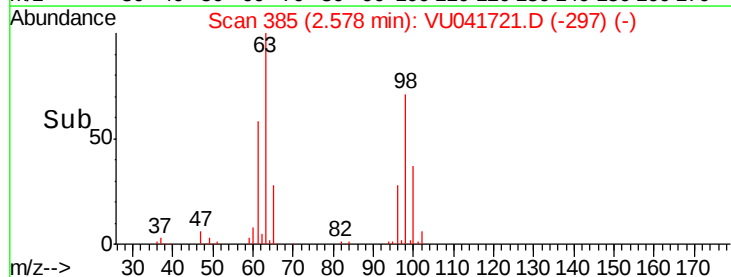
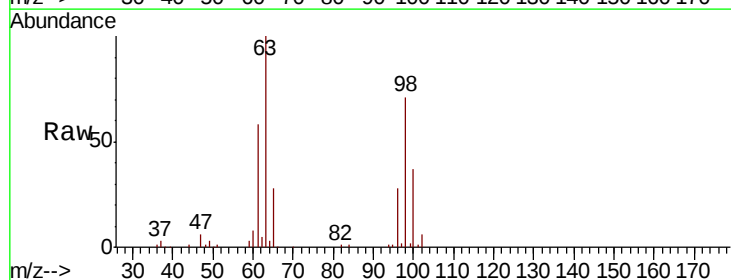
Tgt Ion: 101 Resp: 651

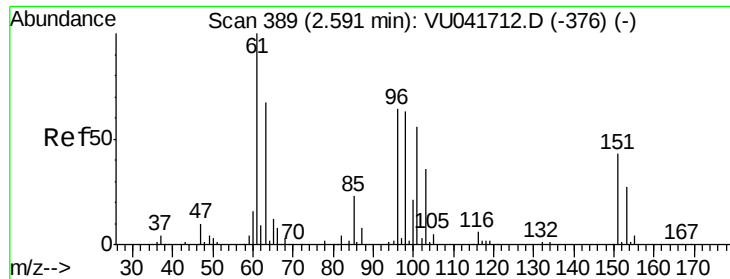
Ion Ratio Lower Upper

101 100

85 0.0 33.6 50.4#

151 0.0 56.2 84.4#

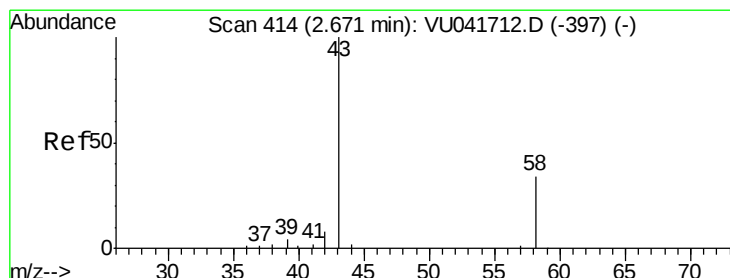
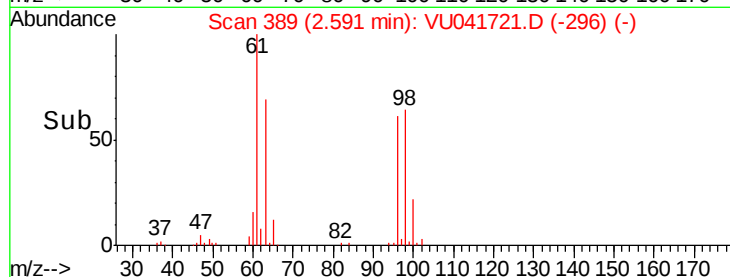
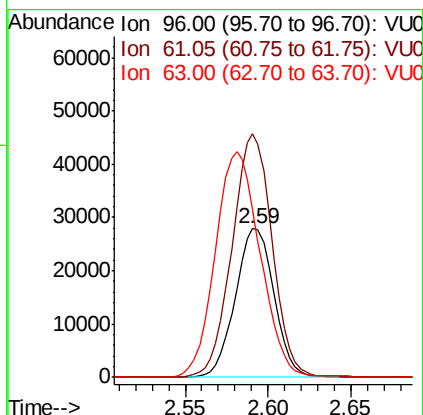
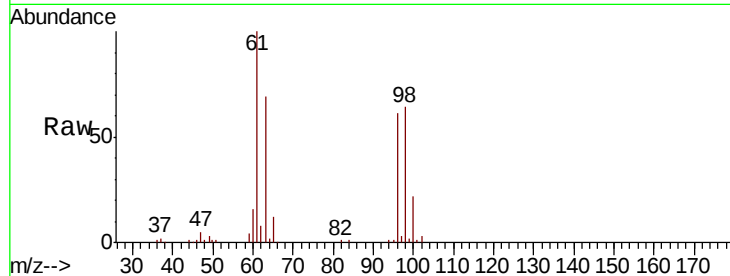




#12
 1,1-Dichloroethene
 Concen: 4.988 ug/L
 RT: 2.59 min Scan# 389
 Delta R.T. -0.00 min
 Lab File: VU041721.D
 Acq: 22 Dec 2020 01:19

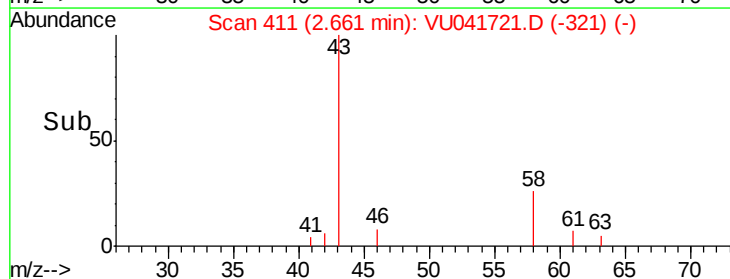
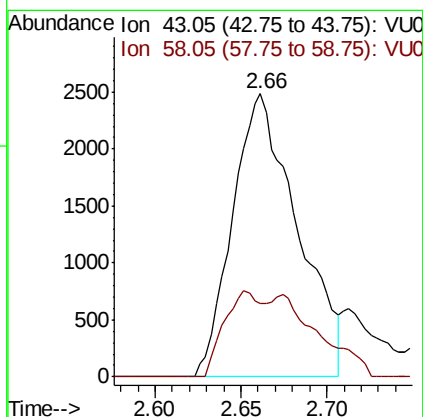
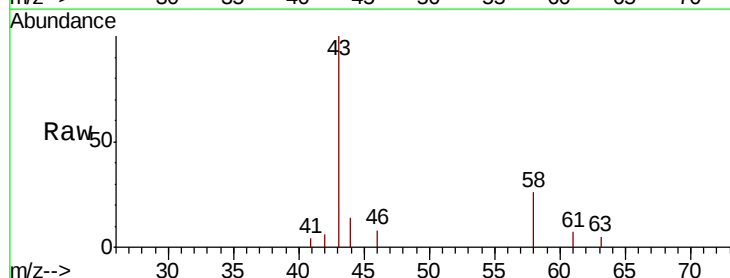
Instrument :
 MSVOA_U
 ClientSampleId :
 GB228MSD

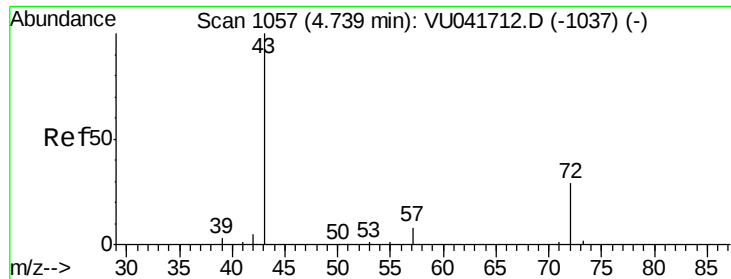
Tot Ion	Ratio	Lower	Upper
96	100		
61	163.6	123.8	230.0
63	112.9	81.0	150.4



#13
 Acetone
 Concen: 3.409 ug/L
 RT: 2.66 min Scan# 411
 Delta R.T. -0.01 min
 Lab File: VU041721.D
 Acq: 22 Dec 2020 01:19

Tgt Ion	Ratio	Lower	Upper
43	100		
58	16.5	0.0	73.2





#21

2-Butanone

Concen: 0.749 ug/L

RT: 4.74 min Scan# 1059

Delta R.T. 0.01 min

Lab File: VU041721.D

Acq: 22 Dec 2020 01:19

Instrument :

MSVOA_U

ClientSampleId :

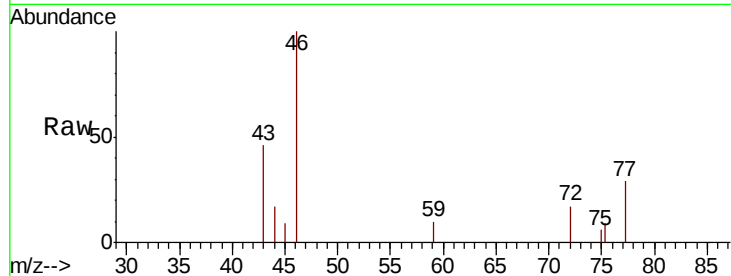
GB228MSD

Tot Ion: 43 Resp: 2331

Ion Ratio Lower Upper

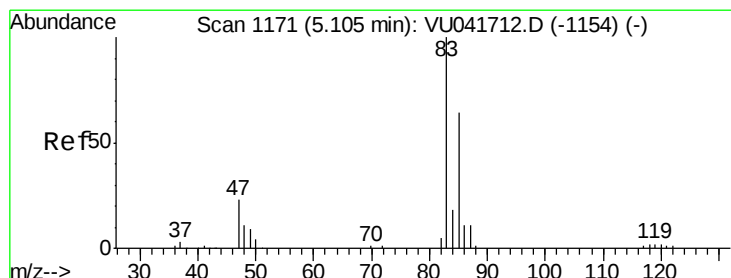
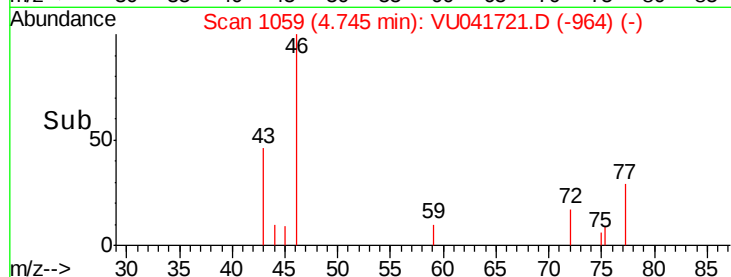
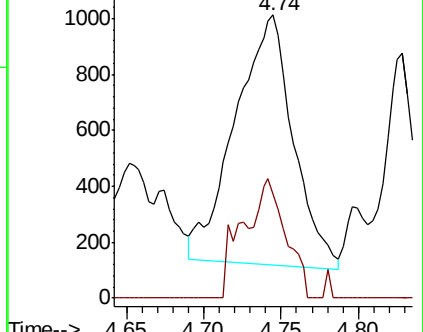
43 100

72 24.6 14.6 44.0



Abundance Ion 43.05 (42.75 to 43.75): VU041721.D (-1037) (-)

Ion 72.10 (71.80 to 72.80): VU041721.D (-1037) (-)



#25

Chloroform

Concen: 1.121 ug/L

RT: 5.11 min Scan# 1171

Delta R.T. -0.00 min

Lab File: VU041721.D

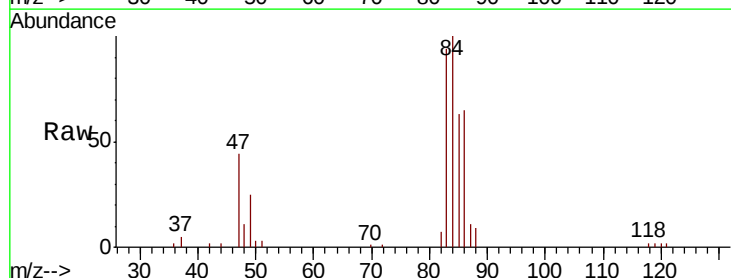
Acq: 22 Dec 2020 01:19

Tgt Ion: 83 Resp: 19809

Ion Ratio Lower Upper

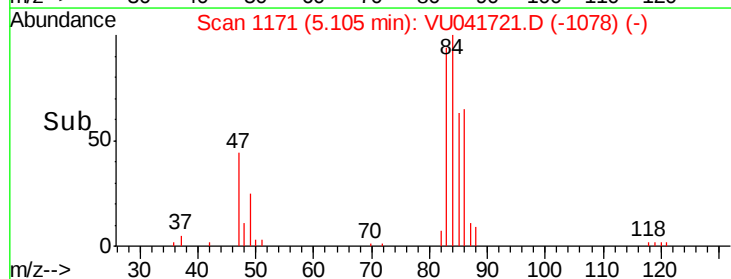
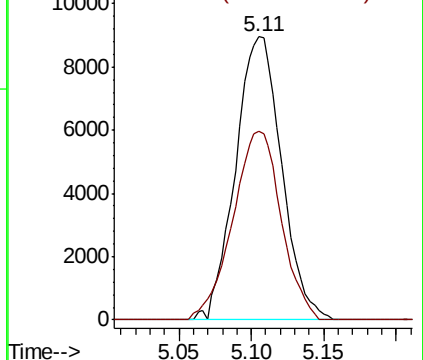
83 100

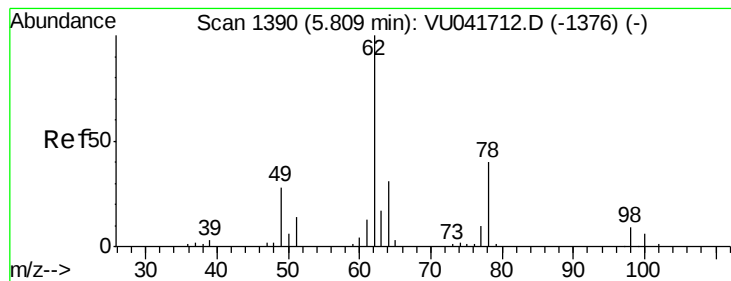
85 66.7 44.2 82.0



Abundance Ion 83.05 (82.75 to 83.75): VU041712.D (-1154) (-)

Ion 85.00 (84.70 to 85.70): VU041712.D (-1154) (-)





#27

1,2-Dichloroethane

Concen: 0.192 ug/L

RT: 5.79 min Scan# 1384

Delta R.T. -0.02 min

Lab File: VU041721.D

Acq: 22 Dec 2020 01:19

Instrument :

MSVOA_U

ClientSampled :

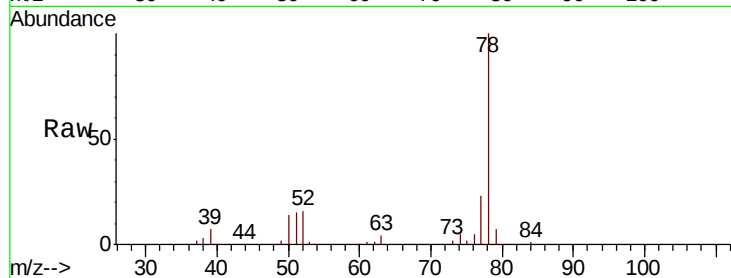
GB228MSD

Tot Ion: 62 Resp: 2294

Ion Ratio Lower Upper

62 100

98 0.0 8.2 12.2#



Abundance Ion 62.00 (61.70 to 62.70): VU041721.D (-1376) (-)

Ion 98.05 (97.75 to 98.75): VU041721.D (-1376) (-)

5.79

1000

800

600

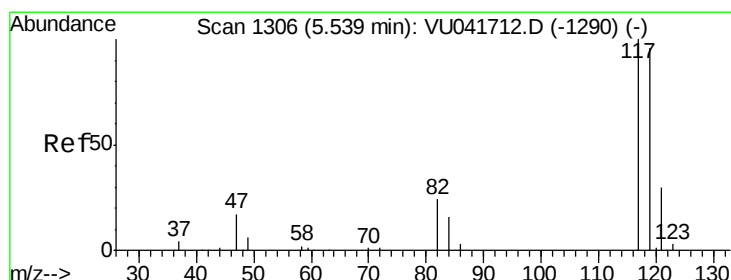
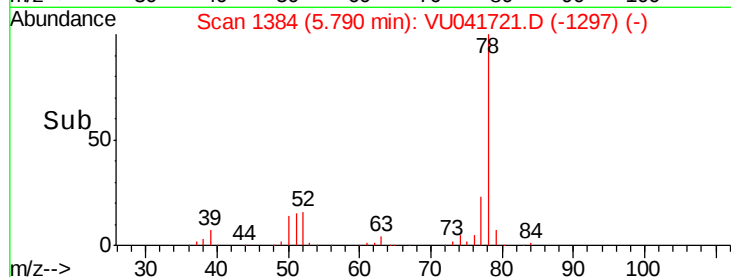
400

200

0

5.75 5.80 5.85

Time-->



#31

Carbon tetrachloride

Concen: 1.445 ug/L

RT: 5.54 min Scan# 1306

Delta R.T. -0.00 min

Lab File: VU041721.D

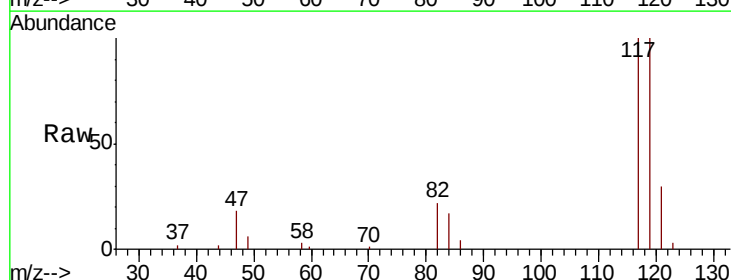
Acq: 22 Dec 2020 01:19

Tgt Ion: 117 Resp: 18256

Ion Ratio Lower Upper

117 100

119 97.3 76.2 114.2



Abundance Ion 116.90 (116.60 to 117.60): VU041721.D (-1290) (-)

Ion 118.90 (118.60 to 119.60): VU041721.D (-1290) (-)

5.54

10000

8000

6000

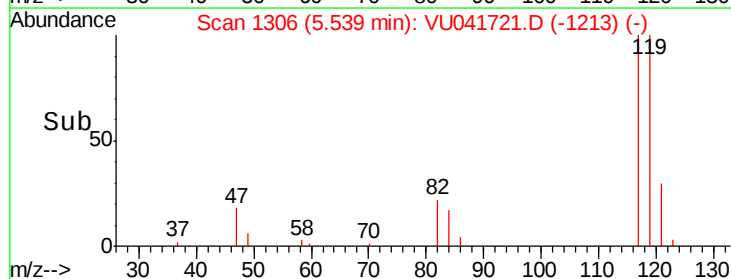
4000

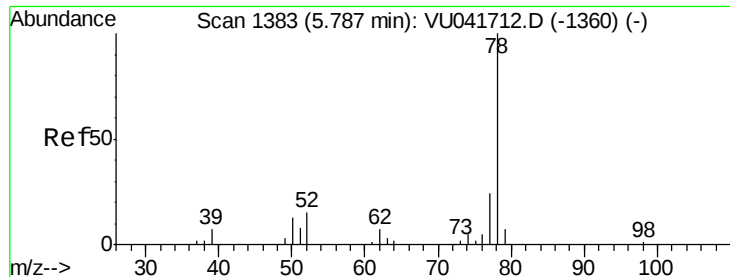
2000

0

5.45 5.50 5.55 5.60

Time-->





#33

Benzene

Concen: 5.175 ug/L

RT: 5.79 min Scan# 1383

Delta R.T. -0.00 min

Lab File: VU041721.D

Acq: 22 Dec 2020 01:19

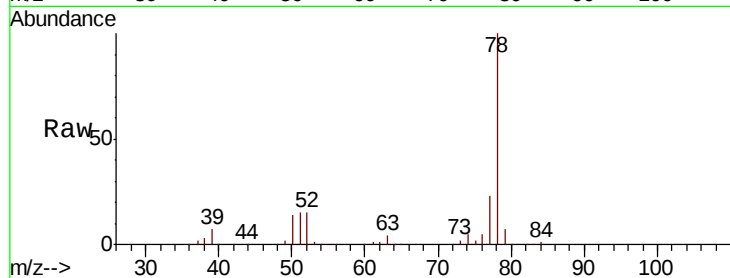
Instrument :

MSVOA_U

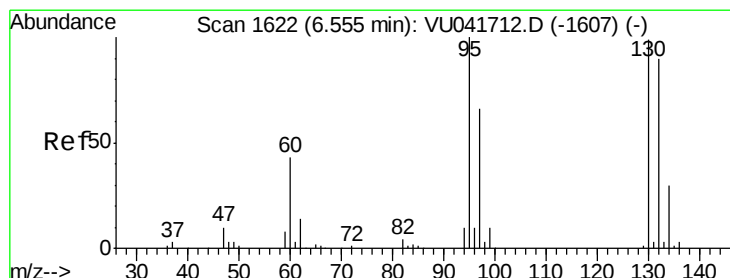
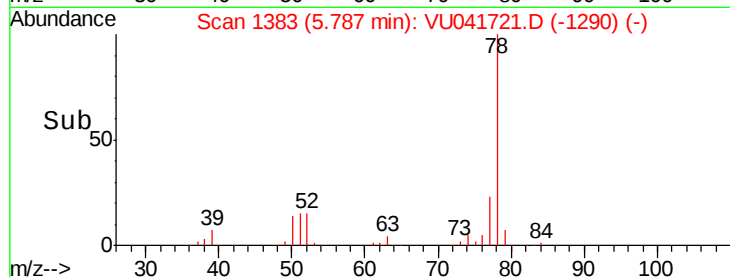
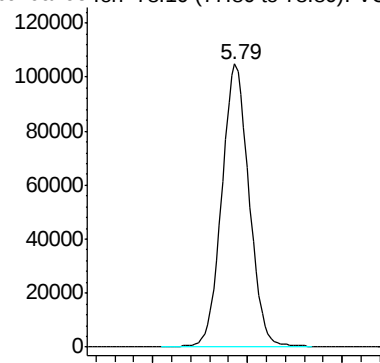
ClientSampleId :

GB228MSD

Tgt Ion: 78 Resp: 210517



Abundance Ion 78.10 (77.80 to 78.80): VU0



#34

Trichloroethene

Concen: 5.472 ug/L

RT: 6.55 min Scan# 1621

Delta R.T. -0.00 min

Lab File: VU041721.D

Acq: 22 Dec 2020 01:19

Tgt Ion: 95 Resp: 55930

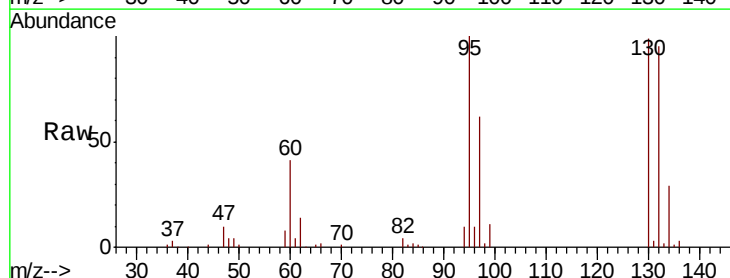
Ion	Ratio	Lower	Upper
95	100		
97	62.2	43.9	81.5
132	94.6	63.1	117.3
130	99.3	67.4	125.2

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

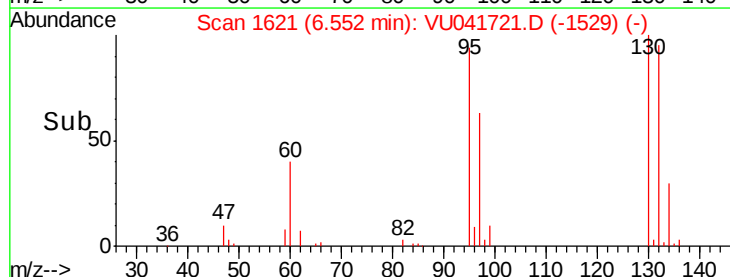


Abundance Ion 95.00 (94.70 to 95.70): VU0

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



Abundance Ion 95.00 (94.70 to 95.70): VU0

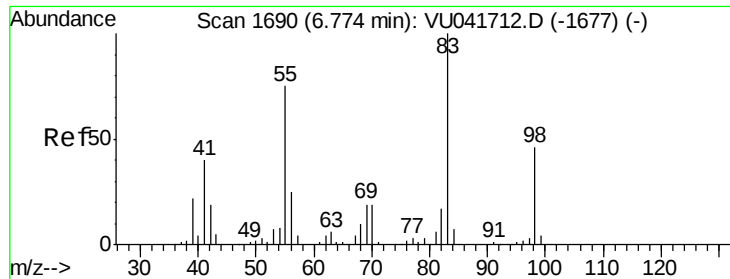
Ion 96.95 (96.65 to 97.65): VU0

Ion 131.95 (131.65 to 132.65): V

Ion 129.95 (129.65 to 130.65): V

Time-->

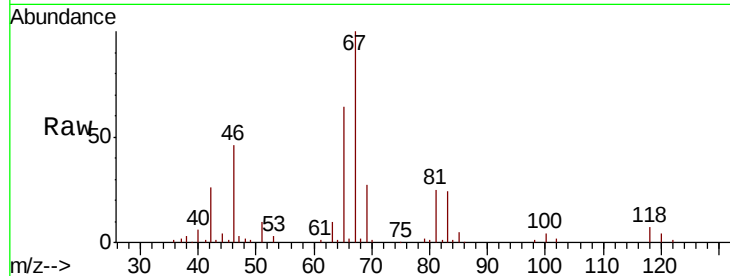
6.45 6.50 6.55 6.60 6.65



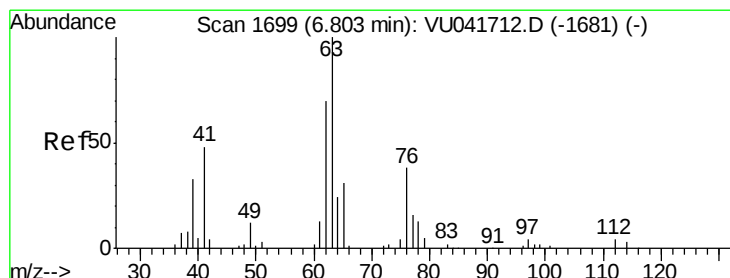
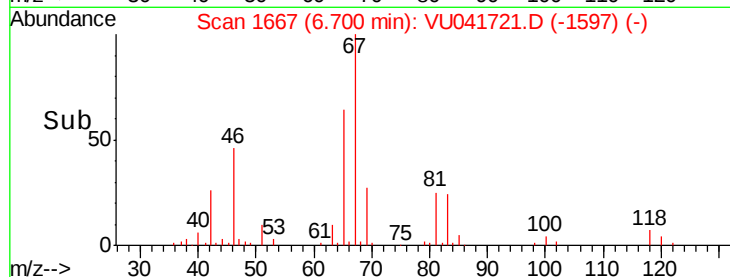
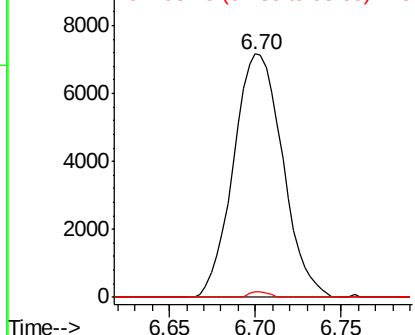
#35
Methvlcvclohexane
Concen: 0.861 ug/L
RT: 6.70 min Scan# 1667
Delta R.T. -0.07 min
Lab File: VU041721.D
Acq: 22 Dec 2020 01:19

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GB228MSD

Tot Ion: 83 Resp: 14229
Ion Ratio Lower Upper
83 100
55 0.0 61.2 91.8#
98 0.9 36.6 54.8#

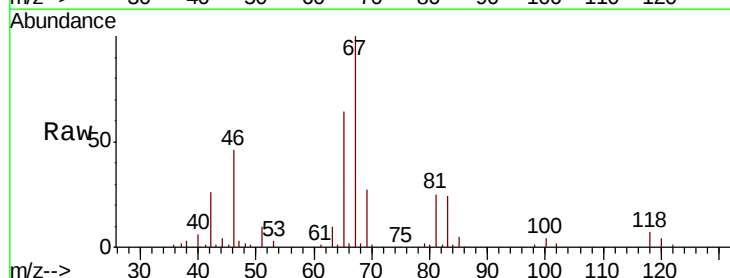


Abundance Ion 83.15 (82.85 to 83.85): VU0
Ion 55.10 (54.80 to 55.80): VU0
Ion 98.15 (97.85 to 98.85): VU0

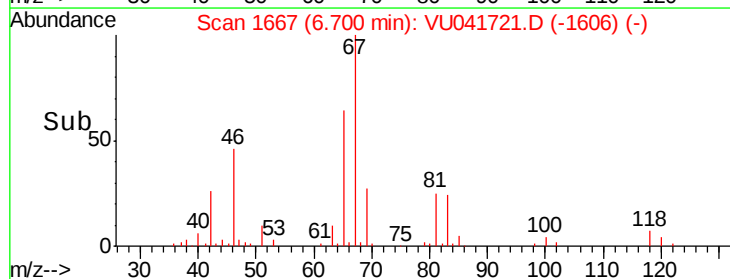
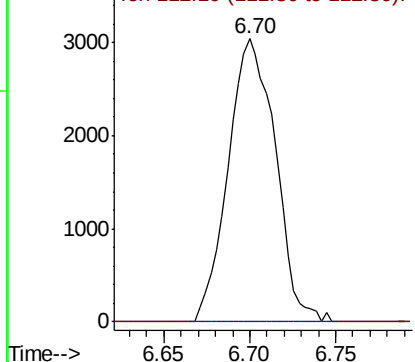


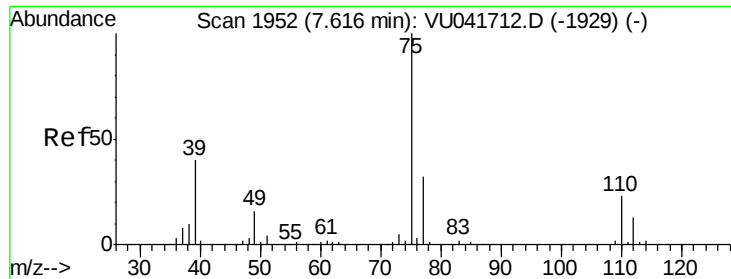
#37
1,2-Dichloropropane
Concen: 0.559 ug/L
RT: 6.70 min Scan# 1667
Delta R.T. -0.10 min
Lab File: VU041721.D
Acq: 22 Dec 2020 01:19

Tgt Ion: 63 Resp: 5817
Ion Ratio Lower Upper
63 100
112 0.0 3.1 4.7#



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

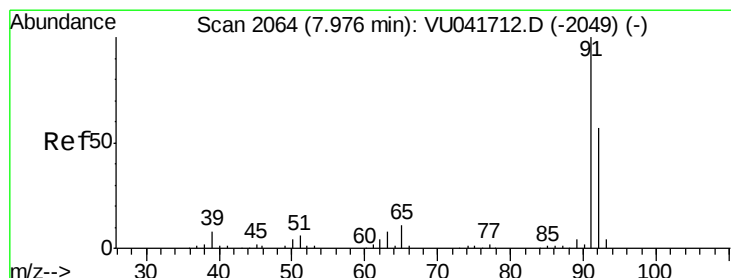
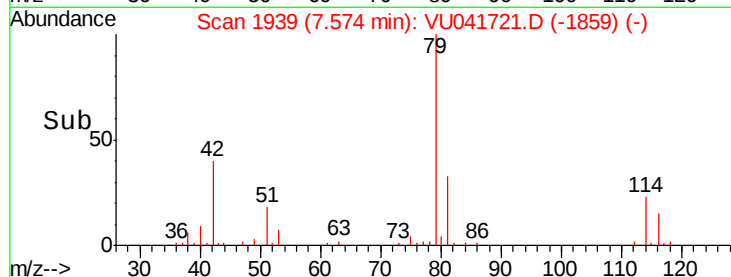
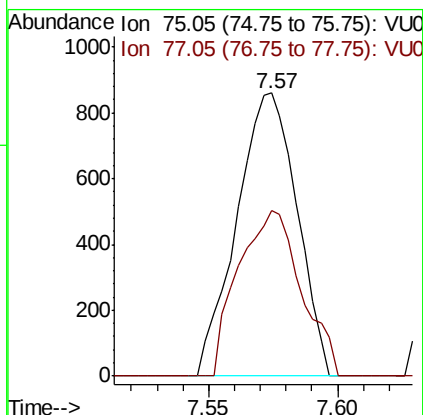
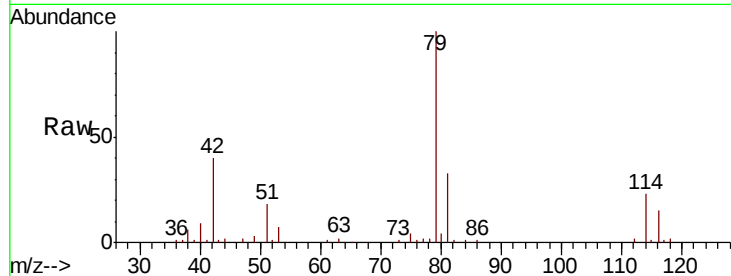




#39
 cis-1,3-Dichloropropene
 Concen: 0.091 ug/L
 RT: 7.57 min Scan# 1939
 Delta R.T. -0.04 min
 Lab File: VU041721.D
 Acq: 22 Dec 2020 01:19

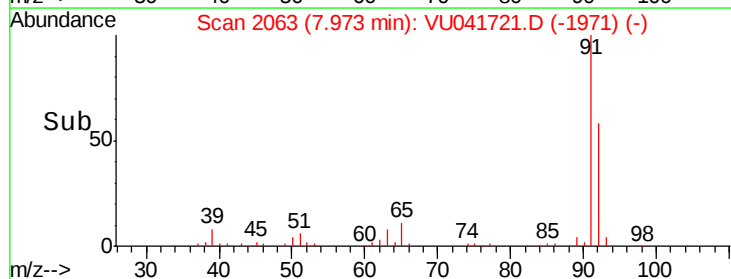
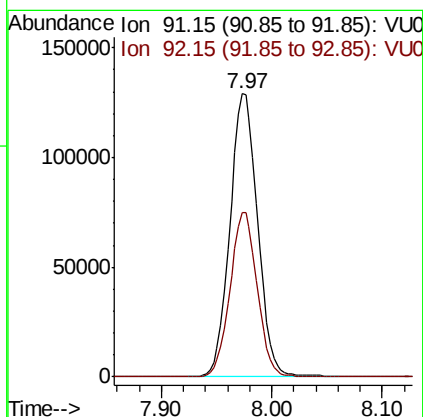
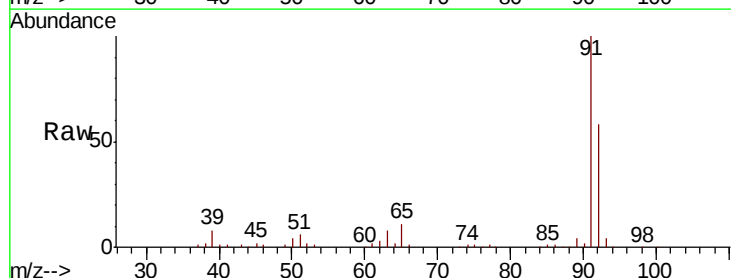
Instrument :
 MSVOA_U
 ClientSampleId :
 GB228MSD

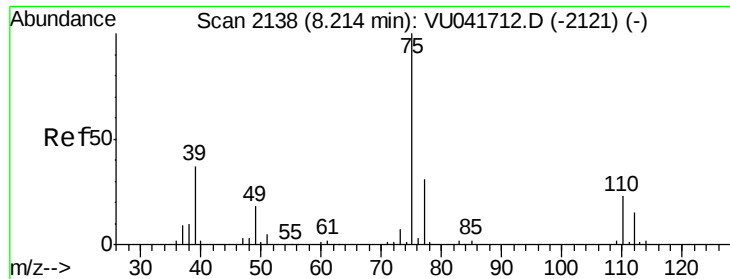
Tot Ion: 75 Resp: 1401
 Ion Ratio Lower Upper
 75 100
 77 58.7 22.3 41.3#



#42
 Toluene
 Concen: 5.357 ug/L
 RT: 7.97 min Scan# 2063
 Delta R.T. -0.00 min
 Lab File: VU041721.D
 Acq: 22 Dec 2020 01:19

Tgt Ion: 91 Resp: 224983
 Ion Ratio Lower Upper
 91 100
 92 58.0 40.0 74.2





#44

trans-1,3-Dichloropropene

Concen: 0.071 ug/L

RT: 8.18 min Scan# 2128

Delta R.T. -0.03 min

Lab File: VU041721.D

Acq: 22 Dec 2020 01:19

Instrument :

MSVOA_U

ClientSampleId :

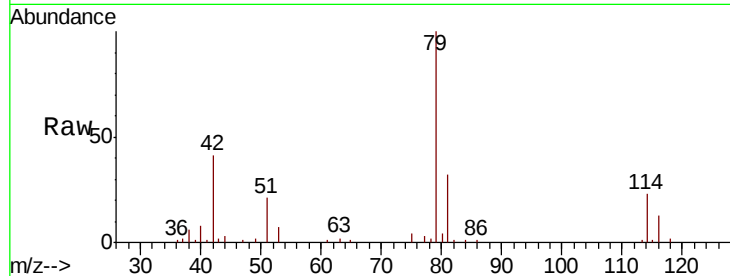
GB228MSD

Tot Ion: 75 Resp: 980

Ion Ratio Lower Upper

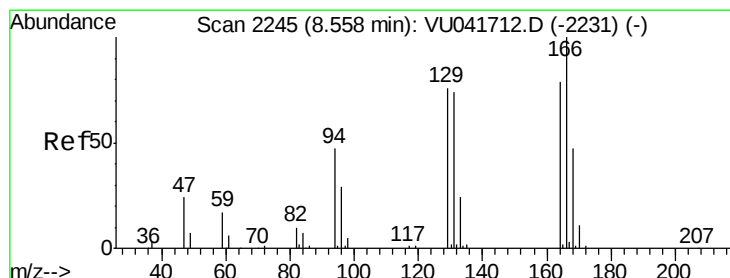
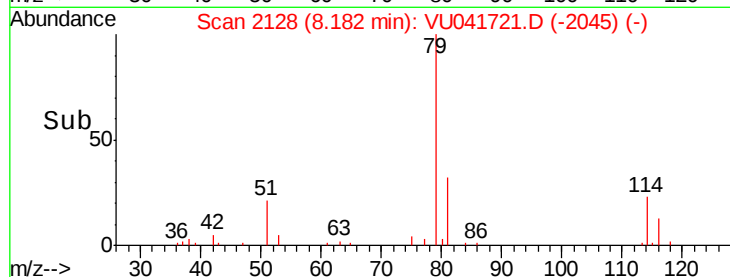
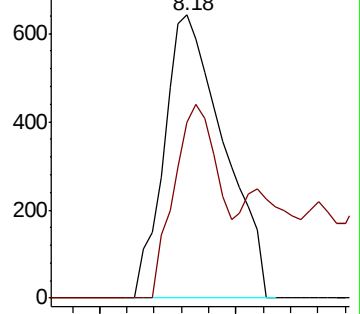
75 100

77 62.0 23.8 44.2#



Abundance Ion 75.05 (74.75 to 75.75): VU0

Ion 77.05 (76.75 to 77.75): VU0



#47

Tetrachloroethene

Concen: 0.196 ug/L

RT: 8.56 min Scan# 2244

Delta R.T. -0.00 min

Lab File: VU041721.D

Acq: 22 Dec 2020 01:19

Tgt Ion:164 Resp: 1406

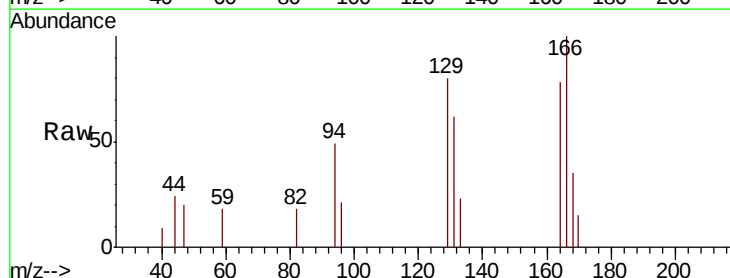
Ion Ratio Lower Upper

164 100

129 102.9 72.2 134.0

131 79.7 66.9 124.3

166 128.4 89.6 166.4

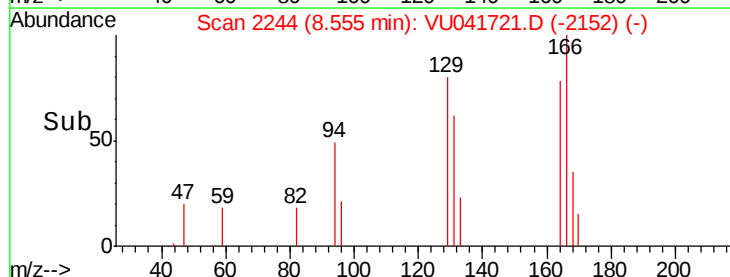
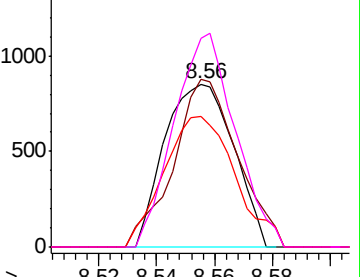


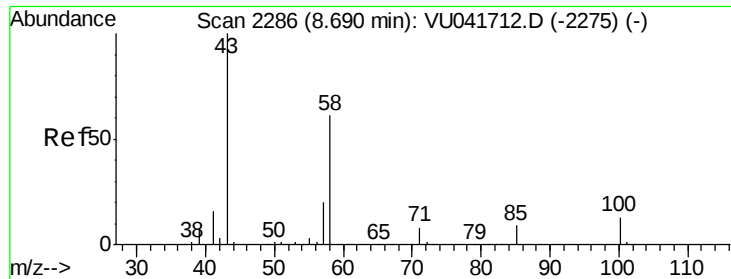
Abundance Ion 163.90 (163.60 to 164.60): V

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

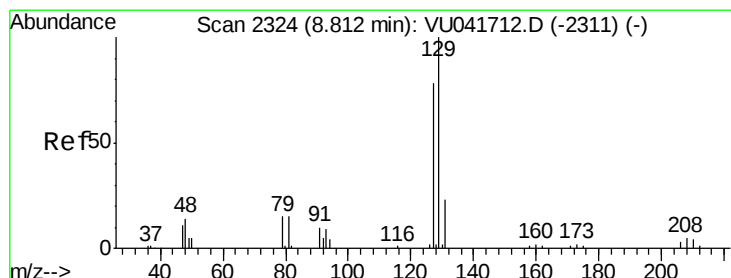
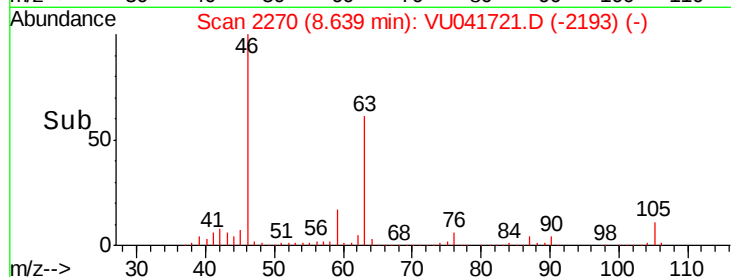
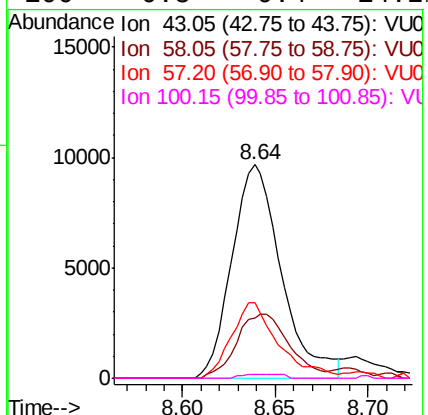
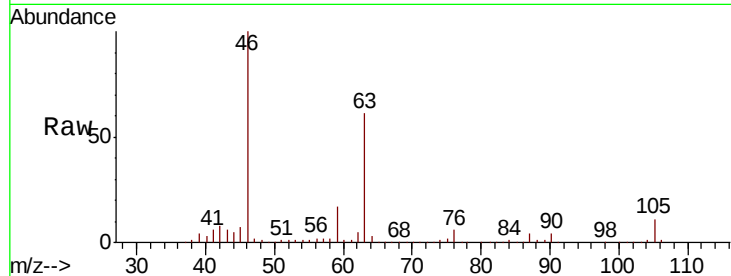




#48
2-Hexanone
Concen: 3.328 ug/L
RT: 8.64 min Scan# 2270
Delta R.T. -0.05 min
Lab File: VU041721.D
Acq: 22 Dec 2020 01:19

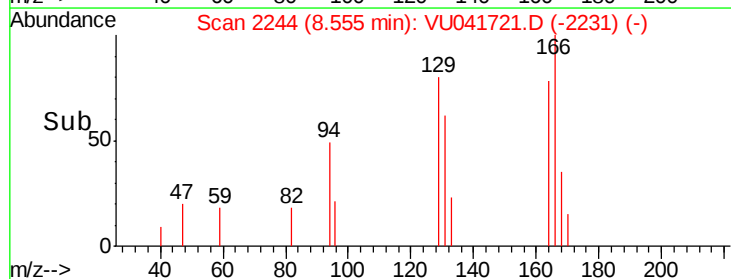
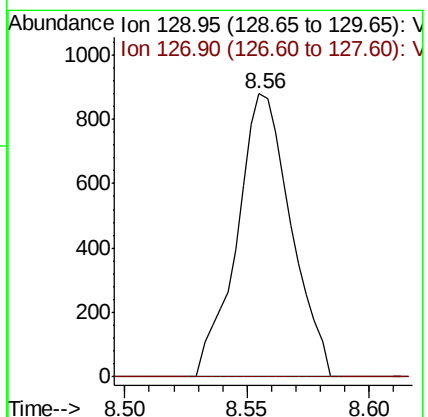
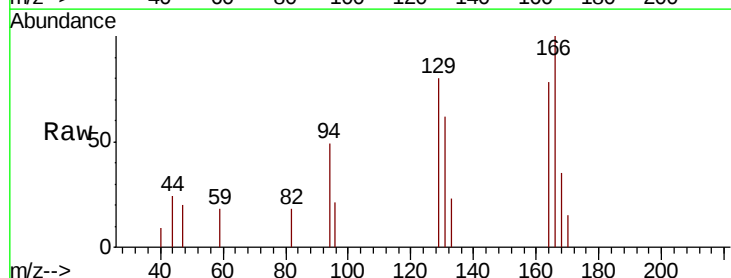
Instrument :
MSVOA_U
ClientSampleId :
GB228MSD

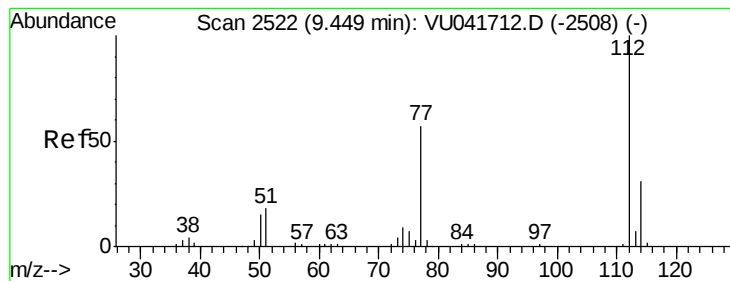
Tot Ion	Ratio	Lower	Upper
43	100		
58	0.0	47.9	71.9#
57	33.7	16.5	24.7#
100	0.8	9.4	14.2#



#49
Dibromochloromethane
Concen: 0.153 ug/L
RT: 8.56 min Scan# 2244
Delta R.T. -0.26 min
Lab File: VU041721.D
Acq: 22 Dec 2020 01:19

Tgt Ion	Ratio	Lower	Upper
129	100		
127	0.0	54.7	101.7#





#51

Chlorobenzene

Concen: 5.397 ug/L

RT: 9.45 min Scan# 2522

Delta R.T. -0.00 min

Lab File: VU041721.D

Acq: 22 Dec 2020 01:19

Instrument :

MSVOA_U

ClientSampleId :

GB228MSD

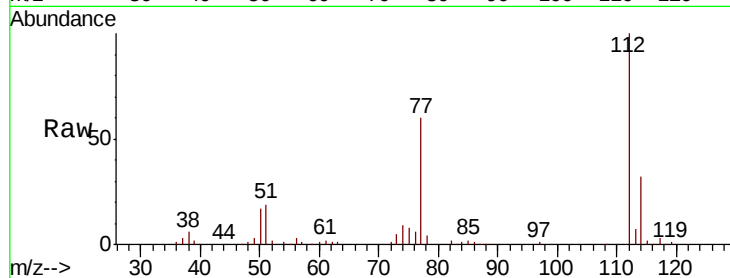
Tot Ion:112 Resp: 140878

Ion Ratio Lower Upper

112 100

114 32.1 22.7 42.3

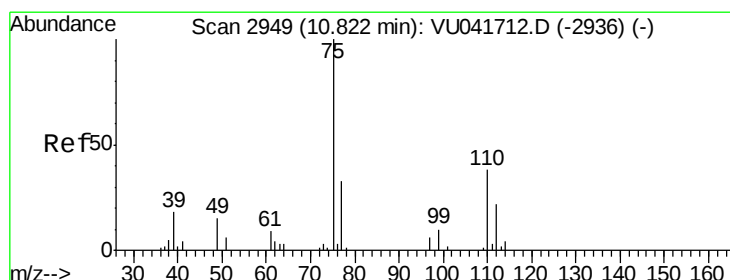
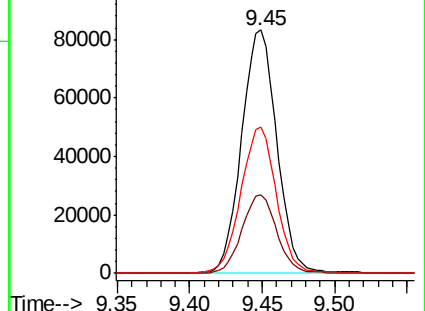
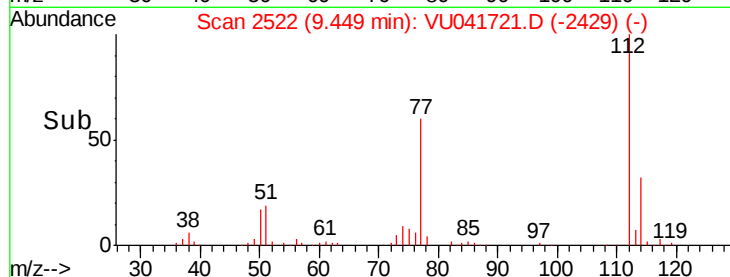
77 59.9 49.1 73.7



Abundance Ion 112.10 (111.80 to 112.80): V

Ion 114.05 (113.75 to 114.75): V

Ion 77.10 (76.80 to 77.80): VU



#59

1,2,3-Trichloropropane

Concen: 0.780 ug/L

RT: 11.81 min Scan# 3256

Delta R.T. 0.99 min

Lab File: VU041721.D

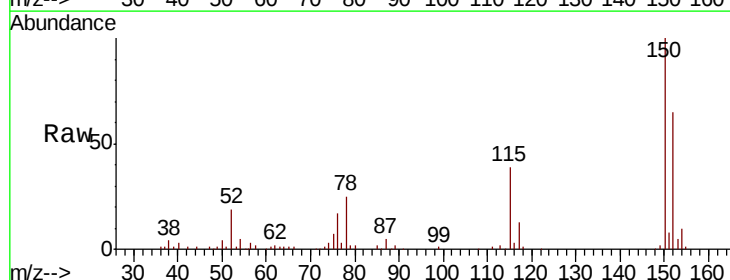
Acq: 22 Dec 2020 01:19

Tgt Ion: 75 Resp: 6092

Ion Ratio Lower Upper

75 100

77 0.0 26.2 39.2#



Abundance Ion 75.00 (74.70 to 75.70): VU

Ion 77.00 (76.70 to 77.70): VU

