

Data Path : Z:\VOASRV\HPCHEM1\MSVOA U\DATA\VU121420\
 Data File : VU041610.D
 Acq On : 14 Dec 2020 14:05
 Operator : SY/MD
 Sample : L5029-02
 Misc : 25.0mL/MSVOA U/WATER
 ALS Vial : 11 Sample Multiplier: 1

Instrument :
 MSVOA_U
 ClientSampleId :
 GB1K2

Quant Time: Dec 15 00:48:52 2020
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_U\METHOD\SOMUTR121220WMA.M
 Quant Title : TRACE VOA SOM01.0
 QLast Update : Tue Dec 15 00:46:25 2020
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Difluorobenzene	6.26	114	125540	5.00	ug/L	0.00
28) Chlorobenzene-d5	9.42	117	125565	5.00	ug/L	0.00
60) 1,4-Dichlorobenzene-d4	11.81	152	61597	5.00	ug/L	0.00

System Monitoring Compounds

4) Vinyl Chloride-d3	1.60	65	31157	3.18	ug/L	0.00
Spiked Amount	5.000	Range	40 - 130	Recovery	=	63.60%
7) Chloroethane-d5	1.92	69	30083	3.96	ug/L	0.00
Spiked Amount	5.000	Range	65 - 130	Recovery	=	79.20%
11) 1,1-Dichloroethene-d2	2.58	63	53409	2.95	ug/L	0.00
Spiked Amount	5.000	Range	60 - 125	Recovery	=	59.00%#
20) 2-Butanone-d5	4.66	46	151625	53.78	ug/L	0.00
Spiked Amount	50.000	Range	40 - 130	Recovery	=	107.56%
24) Chloroform-d	5.08	84	78003	4.64	ug/L	0.00
Spiked Amount	5.000	Range	70 - 125	Recovery	=	92.80%
26) 1,2-Dichloroethane-d4	5.72	65	47254	4.95	ug/L	0.00
Spiked Amount	5.000	Range	70 - 130	Recovery	=	99.00%
32) Benzene-d6	5.74	84	156675	4.36	ug/L	0.00
Spiked Amount	5.000	Range	70 - 125	Recovery	=	87.20%
36) 1,2-Dichloropropane-d6	6.70	67	50677	4.50	ug/L	0.00
Spiked Amount	5.000	Range	60 - 140	Recovery	=	90.00%
41) Toluene-d8	7.91	98	137872	4.25	ug/L	0.00
Spiked Amount	5.000	Range	70 - 130	Recovery	=	85.00%
43) trans-1,3-Dichloropropene-	8.19	79	20875	4.12	ug/L	0.00
Spiked Amount	5.000	Range	55 - 130	Recovery	=	82.40%
46) 2-Hexanone-d5	8.64	63	127644	46.06	ug/L	0.00
Spiked Amount	50.000	Range	45 - 130	Recovery	=	92.12%
57) 1,1,2,2-Tetrachloroethane-	10.75	84	51165	5.00	ug/L	0.00
Spiked Amount	5.000	Range	65 - 120	Recovery	=	100.00%
64) 1,2-Dichlorobenzene-d4	12.19	152	56471	5.16	ug/L	0.00
Spiked Amount	5.000	Range	80 - 120	Recovery	=	103.20%

Target Compounds

					Ovalue
8) Chloroethane	1.95	64	993	0.128 ug/L #	69
10) 1,1,2-Trichloro-1,2,2-trif	2.58	101	462	0.053 ug/L #	22
13) Acetone	2.67	43	6249	3.485 ug/L	64
21) 2-Butanone	4.74	43	4201	1.438 ug/L	97
22) cis-1,2-Dichloroethene	4.69	96	3925	0.403 ug/L	84
25) Chloroform	5.10	83	4285	0.258 ug/L	79
31) Carbon tetrachloride	5.54	117	951	0.076 ug/L	98
33) Benzene	5.79	78	2125	0.053 ug/L	100
34) Trichloroethene	6.56	95	24450	2.423 ug/L	97
35) Methylcyclohexane	6.70	83	11950	0.733 ug/L #	22
37) 1,2-Dichloropropane	6.70	63	5265	0.513 ug/L #	88
39) cis-1,3-Dichloropropene	7.57	75	1177	0.077 ug/L #	68
44) trans-1,3-Dichloropropene	8.19	75	804	0.059 ug/L	85
45) 1,1,2-Trichloroethane	8.56	97	25109	3.305 ug/L #	1
47) Tetrachloroethene	8.56	164	2982757	422.245 ug/L	98
49) Dibromochloromethane	8.56	129	2898257	332.168 ug/L #	10
59) 1,2,3-Trichloropropane	11.81	75	6895	0.894 ug/L	100

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Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_U\METHOD\SOMUTR121220WMA.M
Quant Title : TRACE VOA SOM01.0
QLast Update : Tue Dec 15 00:46:25 2020
Response via : Initial Calibration

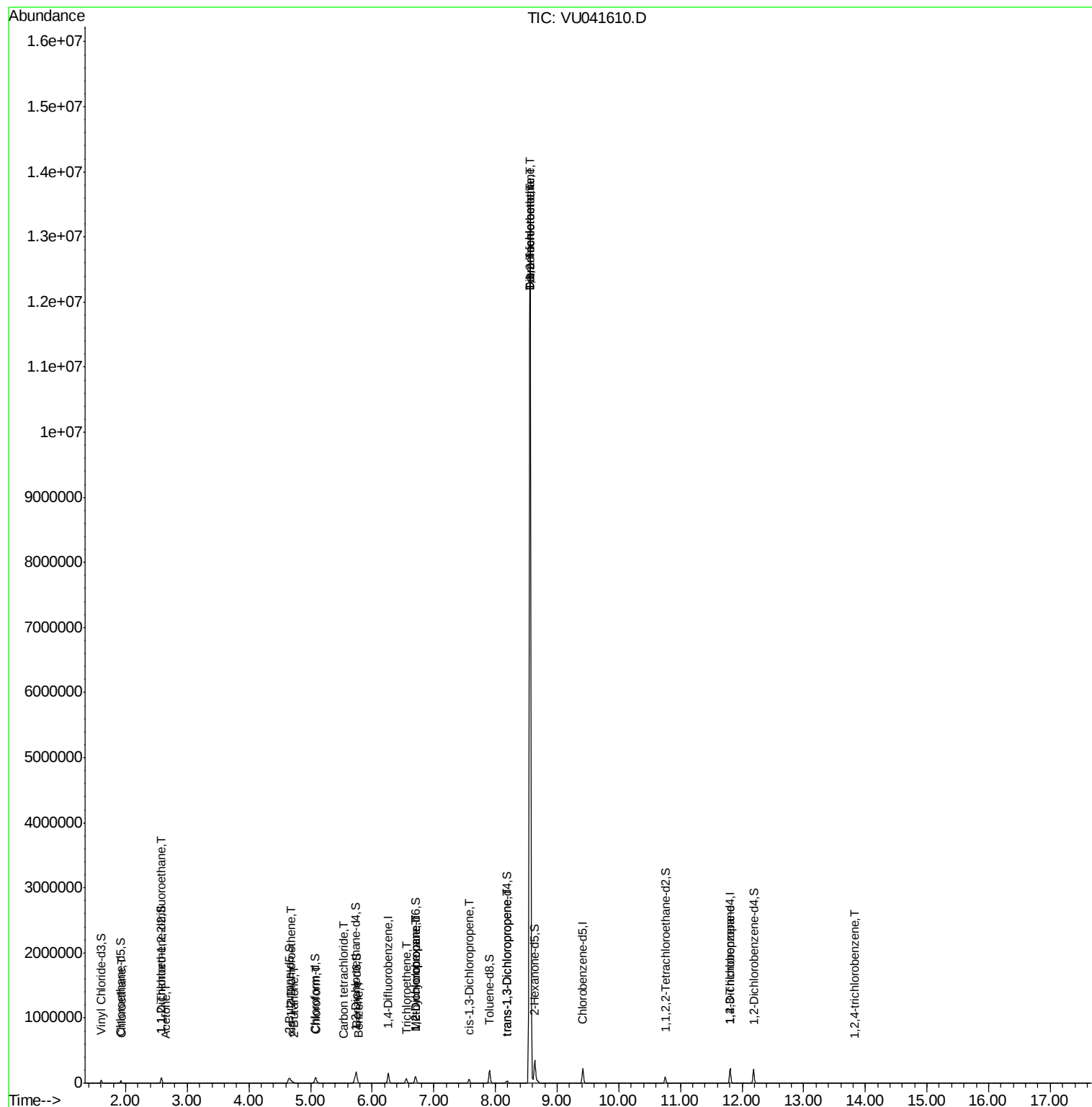
Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
68) 1,2,4-trichlorobenzene	13.83	180	349	0.029	ug/L #	92

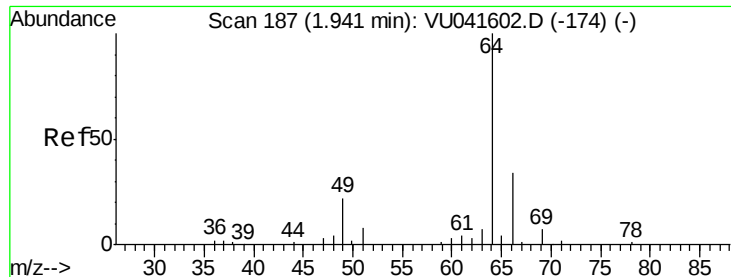
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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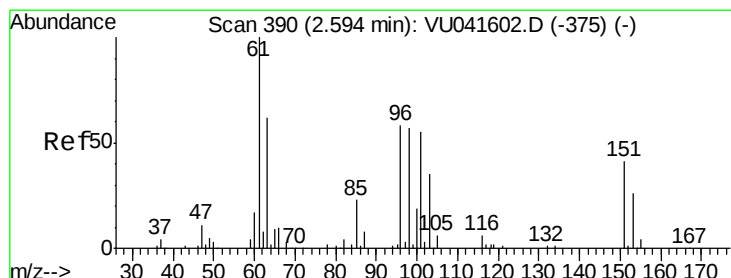
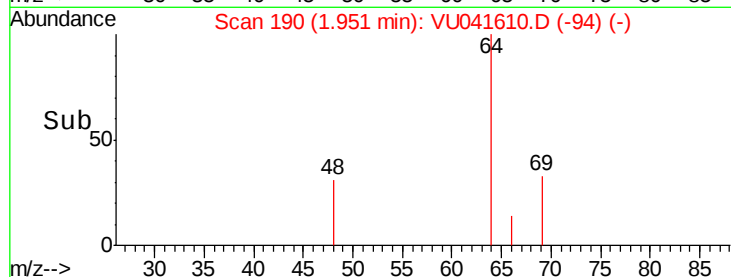
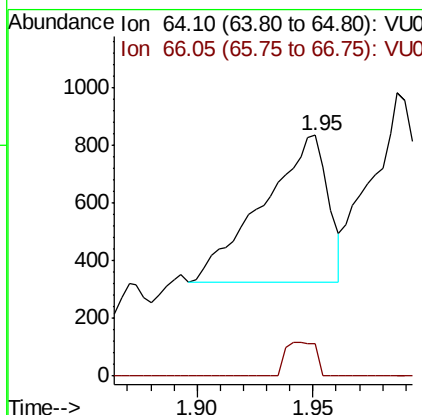
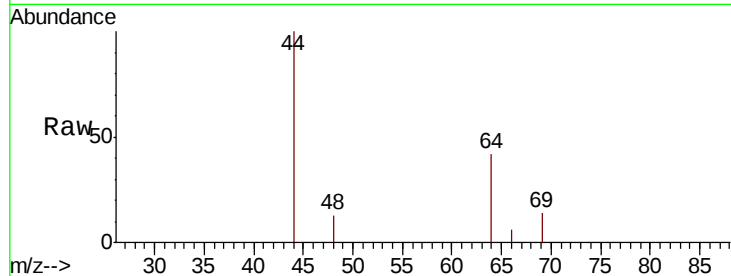




#8
Chloroethane
Concen: 0.128 ug/L
RT: 1.95 min Scan# 190
Delta R.T. 0.01 min
Lab File: VU041610.D
Acq: 14 Dec 2020 14:05

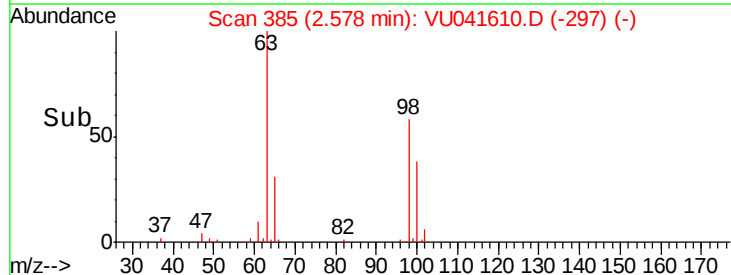
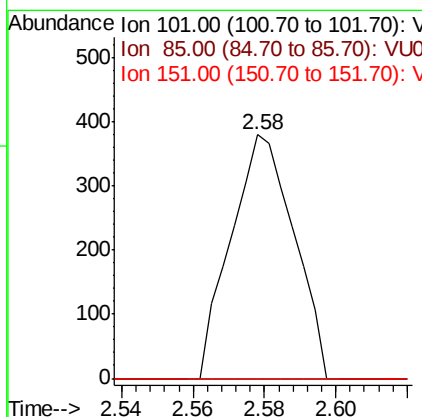
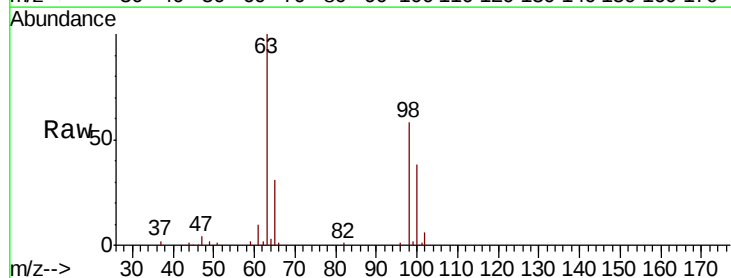
Instrument :
MSVOA_U
ClientSampleId :
GB1K2

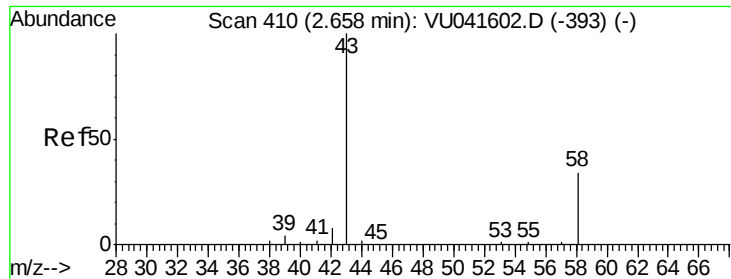
Tot Ion: 64 Resp: 993
Ion Ratio Lower Upper
64 100
66 13.5 21.6 40.0#



#10
1,1,2-Trichloro-1,2,2-trifluoroethane
Concen: 0.053 ug/L
RT: 2.58 min Scan# 385
Delta R.T. -0.02 min
Lab File: VU041610.D
Acq: 14 Dec 2020 14:05

Tgt Ion: 101 Resp: 462
Ion Ratio Lower Upper
101 100
85 0.0 33.6 50.4#
151 0.0 56.2 84.4#





#13

Acetone

Concen: 3.485 ug/L

RT: 2.67 min Scan# 413

Delta R.T. 0.01 min

Lab File: VU041610.D

Acq: 14 Dec 2020 14:05

Instrument :

MSVOA_U

ClientSampleId :

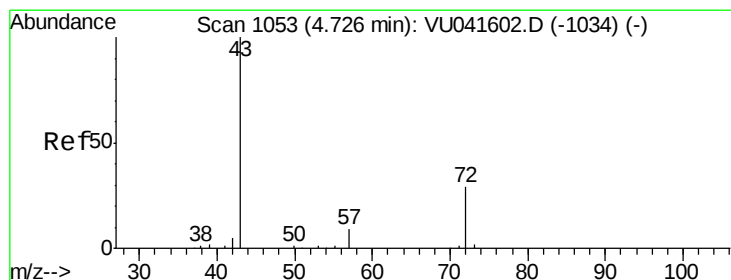
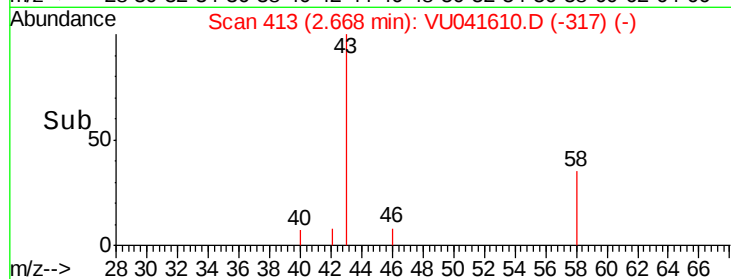
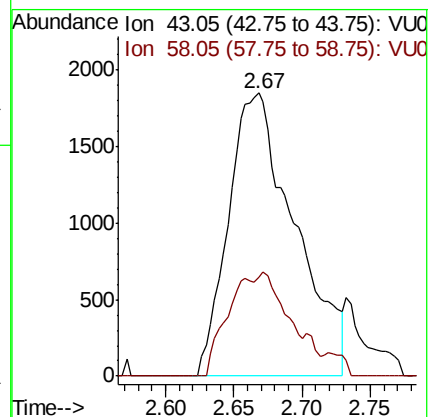
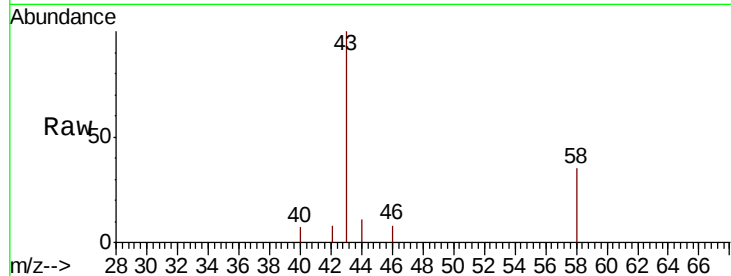
GB1K2

Tot Ion: 43 Resp: 6249

Ion Ratio Lower Upper

43 100

58 15.3 0.0 73.2



#21

2-Butanone

Concen: 1.438 ug/L

RT: 4.74 min Scan# 1056

Delta R.T. 0.01 min

Lab File: VU041610.D

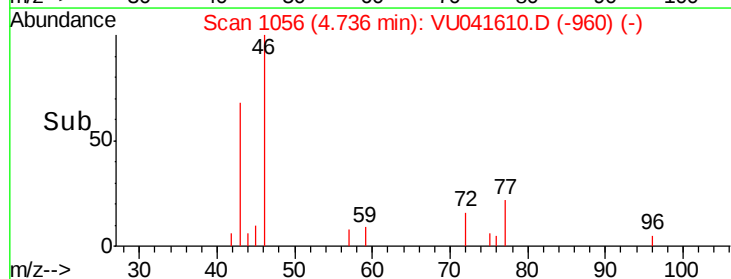
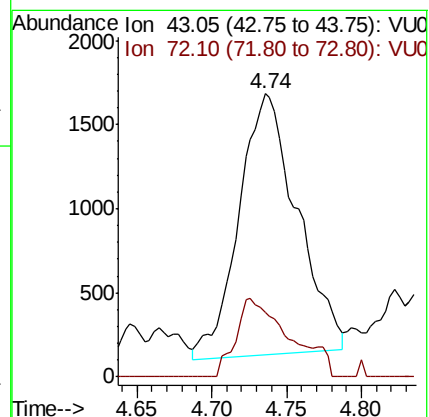
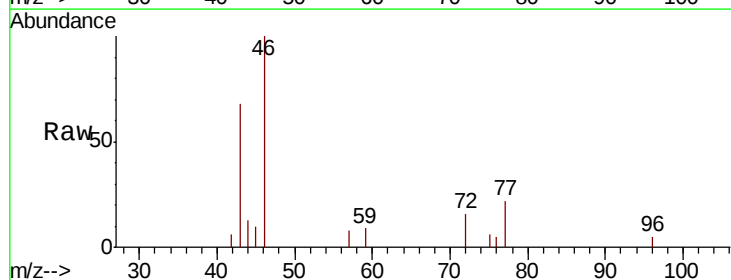
Acq: 14 Dec 2020 14:05

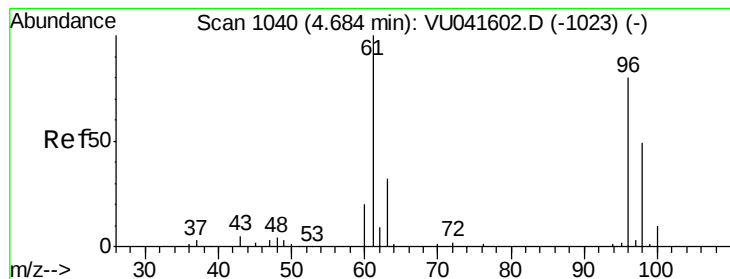
Tgt Ion: 43 Resp: 4201

Ion Ratio Lower Upper

43 100

72 27.8 14.6 44.0





#22

cis-1,2-Dichloroethene

Concen: 0.403 ug/L

RT: 4.69 min Scan# 1042

Delta R.T. 0.01 min

Lab File: VU041610.D

Acq: 14 Dec 2020 14:05

Instrument :

MSVOA_U

ClientSampleId :

GB1K2

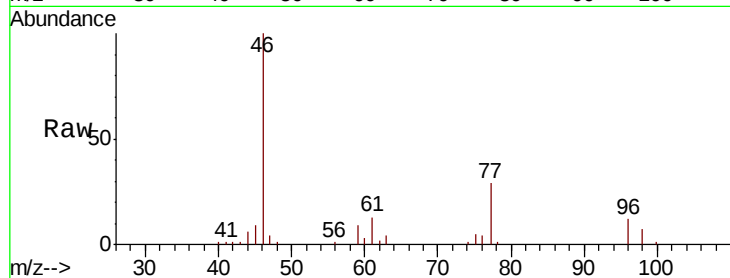
Tot Ion: 96 Resp: 3925

Ion Ratio Lower Upper

96 100

61 108.2 88.8 165.0

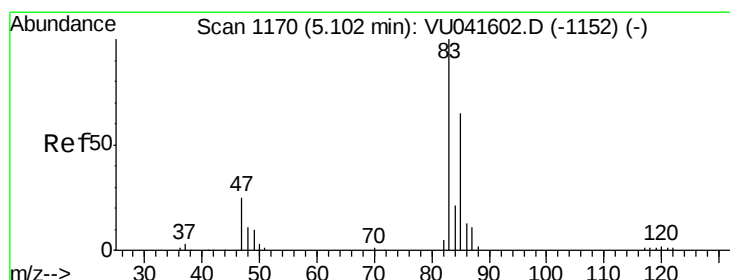
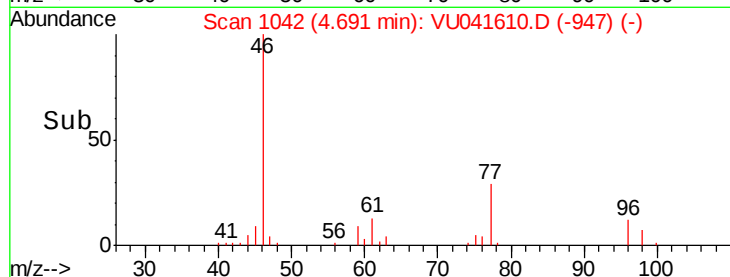
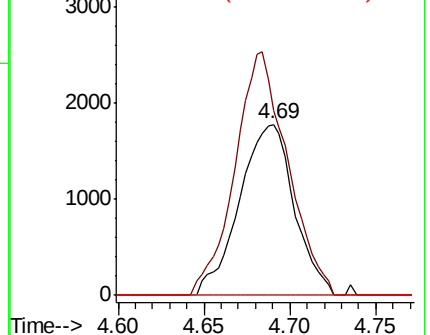
68 0.0 0.0 0.0



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: 0.258 ug/L

RT: 5.10 min Scan# 1170

Delta R.T. 0.00 min

Lab File: VU041610.D

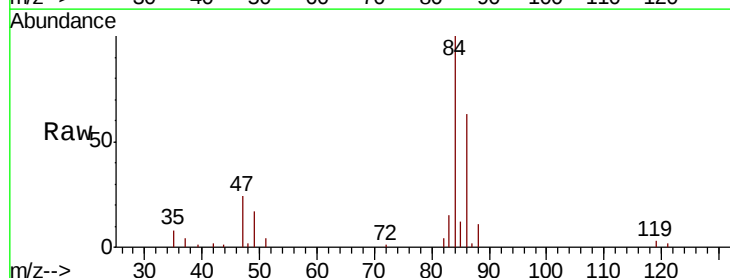
Acq: 14 Dec 2020 14:05

Tgt Ion: 83 Resp: 4285

Ion Ratio Lower Upper

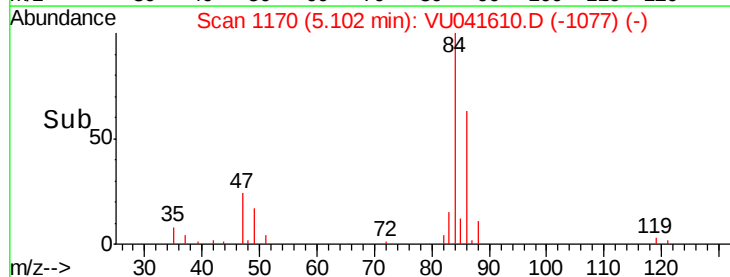
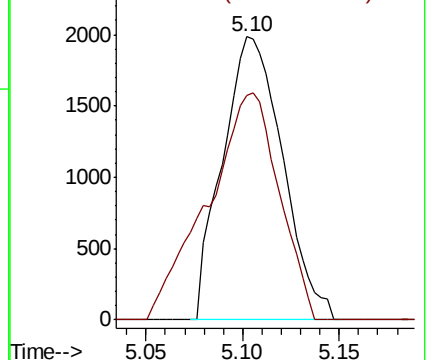
83 100

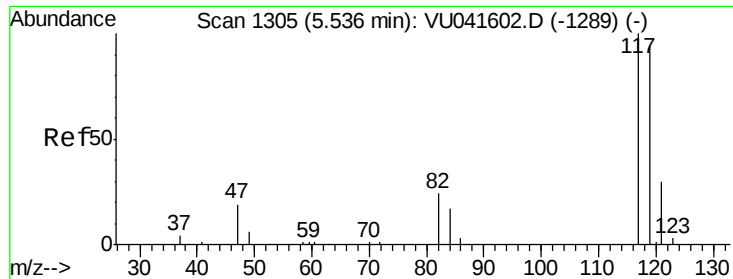
85 79.5 44.2 82.0



Abundance Ion 83.05 (82.75 to 83.75): VU0

Ion 85.00 (84.70 to 85.70): VU0

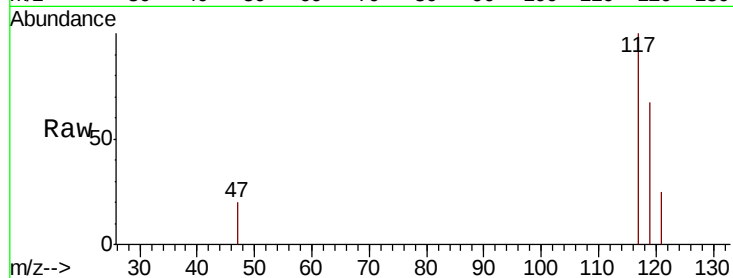




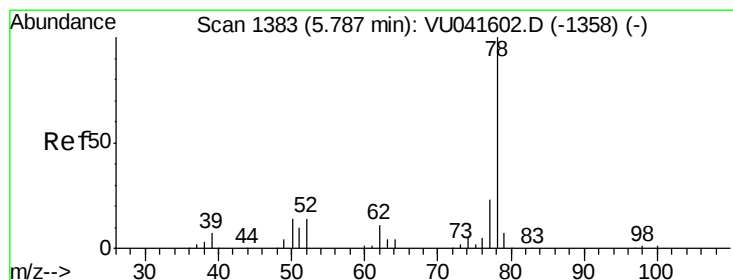
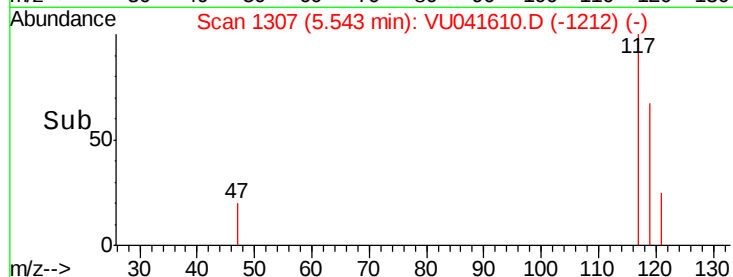
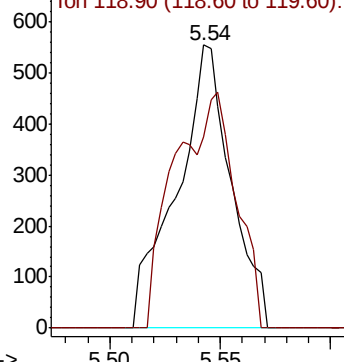
#31
Carbon tetrachloride
Concen: 0.076 ug/L
RT: 5.54 min Scan# 1307
Delta R.T. 0.01 min
Lab File: VU041610.D
Acq: 14 Dec 2020 14:05

Instrument :
MSVOA_U
ClientSampleId :
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Tot Ion:117 Resp: 951
Ion Ratio Lower Upper
117 100
119 93.7 76.2 114.2

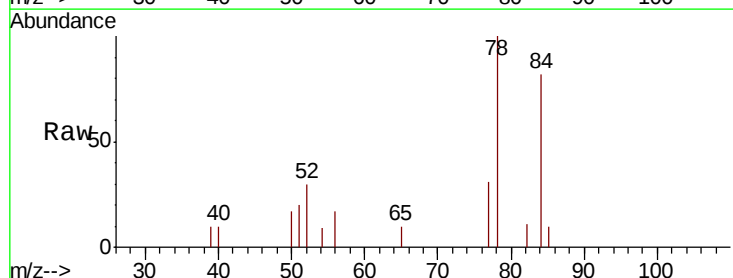


Abundance Ion 116.90 (116.60 to 117.60): V
Ion 118.90 (118.60 to 119.60): V

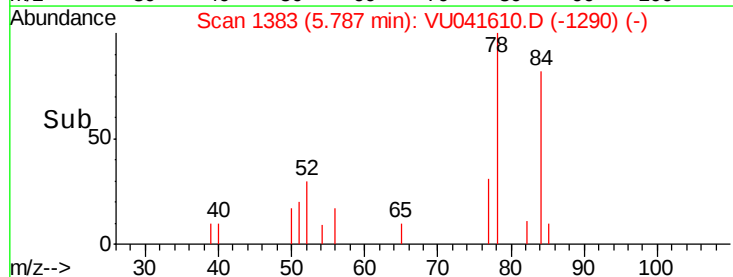
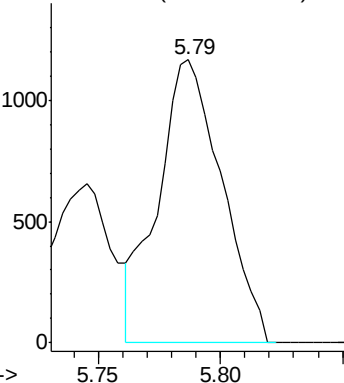


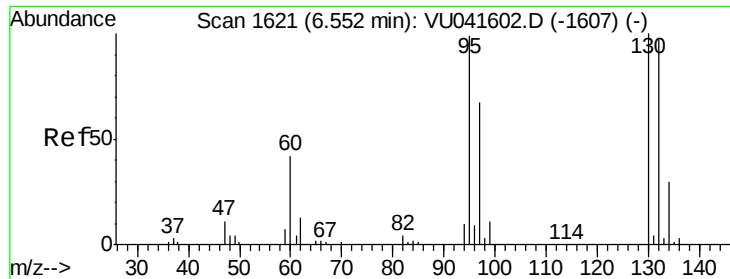
#33
Benzene
Concen: 0.053 ug/L
RT: 5.79 min Scan# 1383
Delta R.T. 0.00 min
Lab File: VU041610.D
Acq: 14 Dec 2020 14:05

Tgt Ion: 78 Resp: 2125



Abundance Ion 78.10 (77.80 to 78.80): VU0

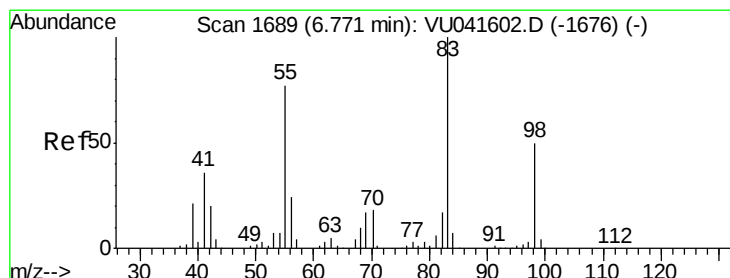
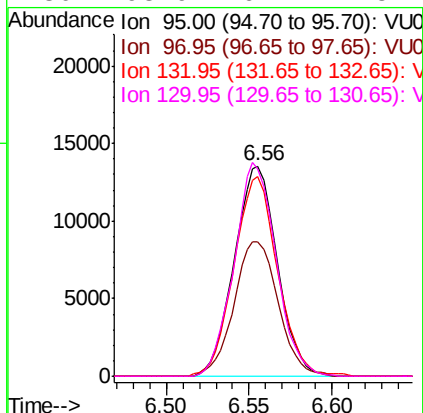
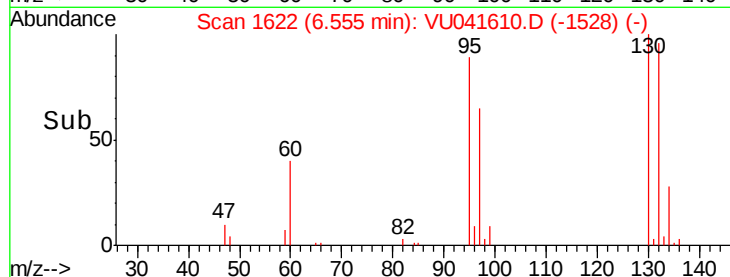
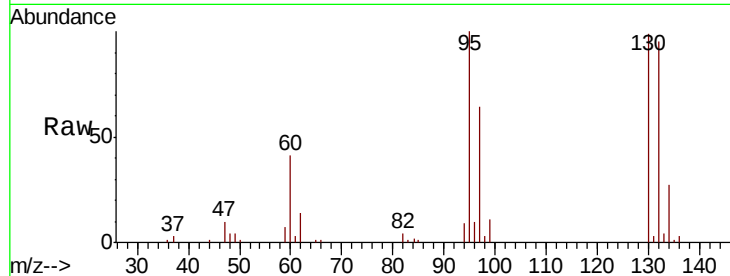




#34
 Trichloroethene
 Concen: 2.423 ug/L
 RT: 6.56 min Scan# 1622
 Delta R.T. 0.00 min
 Lab File: VU041610.D
 Acq: 14 Dec 2020 14:05

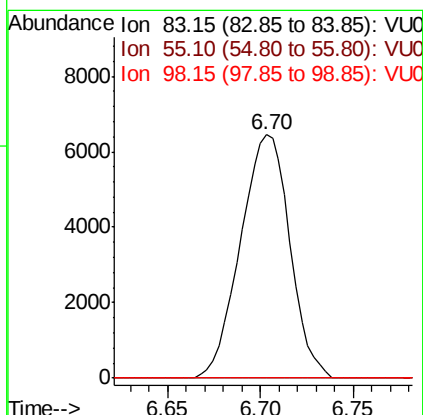
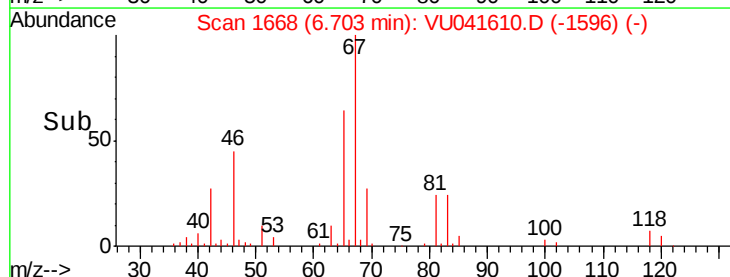
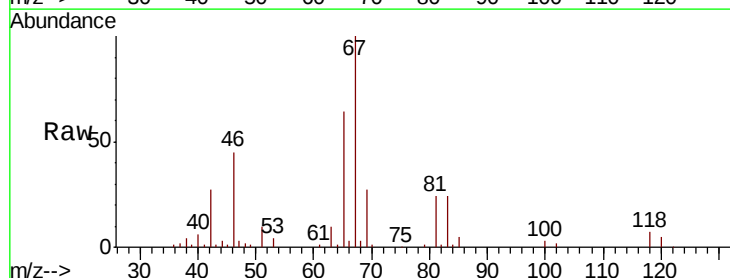
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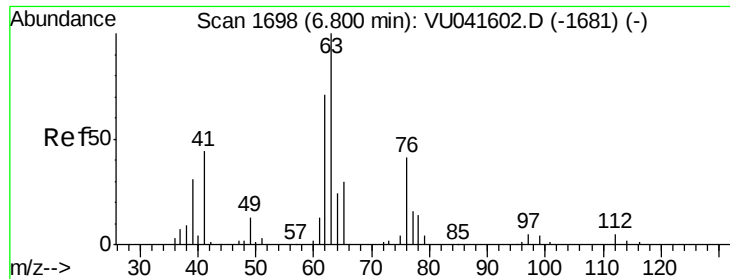
Tot Ion: 95 Resp: 24450
 Ion Ratio Lower Upper
 95 100
 97 63.9 43.9 81.5
 132 95.1 63.1 117.3
 130 98.9 67.4 125.2



#35
 Methylcyclohexane
 Concen: 0.733 ug/L
 RT: 6.70 min Scan# 1668
 Delta R.T. -0.07 min
 Lab File: VU041610.D
 Acq: 14 Dec 2020 14:05

Tgt Ion: 83 Resp: 11950
 Ion Ratio Lower Upper
 83 100
 55 0.0 61.2 91.8#
 98 6.8 36.6 54.8#

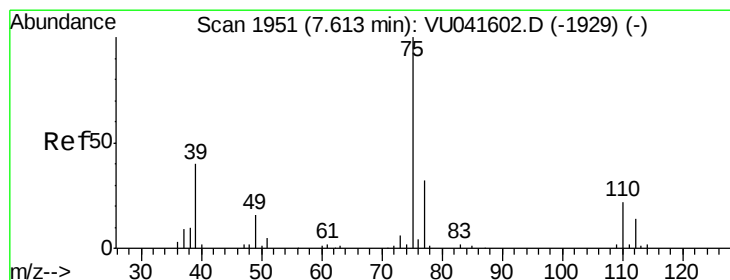
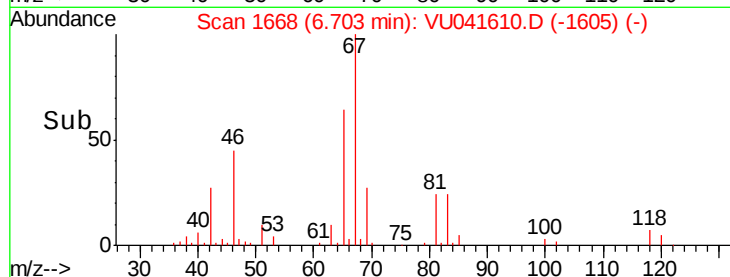
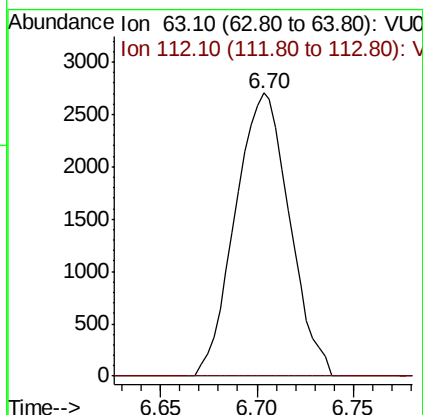
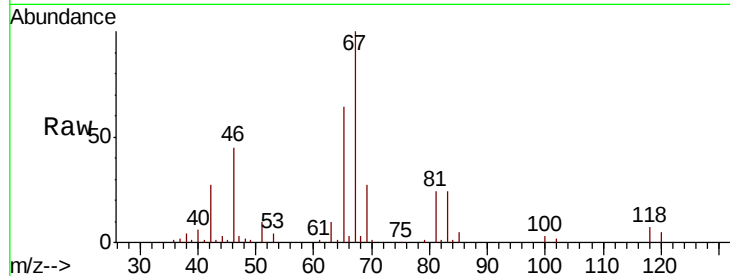




#37
 1,2-Dichloropropane
 Concen: 0.513 ug/L
 RT: 6.70 min Scan# 1668
 Delta R.T. -0.10 min
 Lab File: VU041610.D
 Acq: 14 Dec 2020 14:05

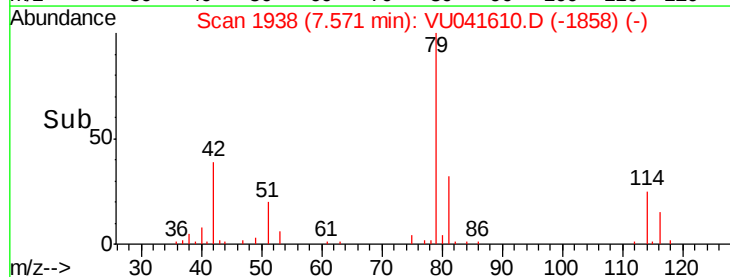
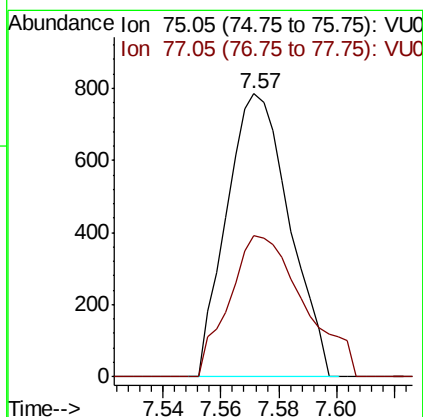
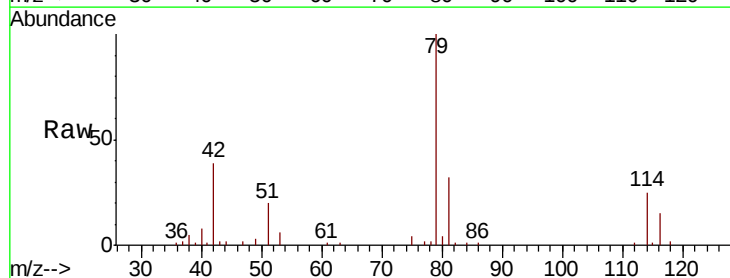
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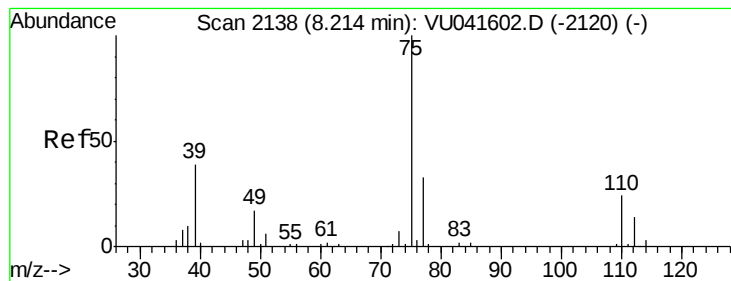
Tot Ion: 63 Resp: 5265
 Ion Ratio Lower Upper
 63 100
 112 0.0 3.1 4.7#



#39
 cis-1,3-Dichloropropene
 Concen: 0.077 ug/L
 RT: 7.57 min Scan# 1938
 Delta R.T. -0.04 min
 Lab File: VU041610.D
 Acq: 14 Dec 2020 14:05

Tgt Ion: 75 Resp: 1177
 Ion Ratio Lower Upper
 75 100
 77 49.8 22.3 41.3#





#44

trans-1,3-Dichloropropene

Concen: 0.059 ug/L

RT: 8.19 min Scan# 2130

Delta R.T. -0.03 min

Lab File: VU041610.D

Acq: 14 Dec 2020 14:05

Instrument :

MSVOA_U

ClientSampleId :

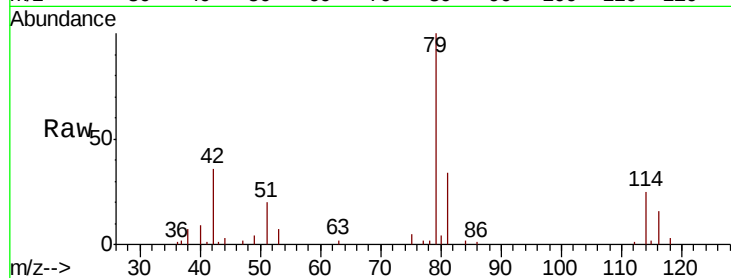
GB1K2

Tot Ion: 75 Resp: 804

Ion Ratio Lower Upper

75 100

77 42.8 23.8 44.2



Abundance Ion 75.05 (74.75 to 75.75): VU041610.D (-2120) (-)

Ion 77.05 (76.75 to 77.75): VU041610.D (-2120) (-)

8.19

500

400

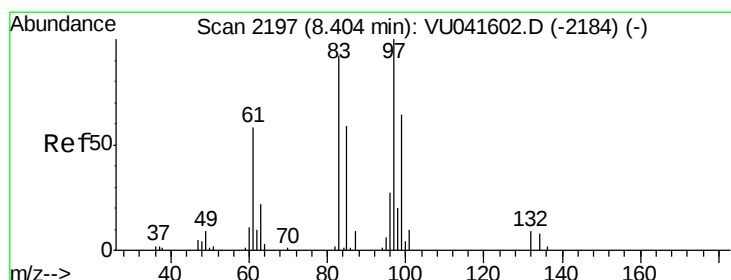
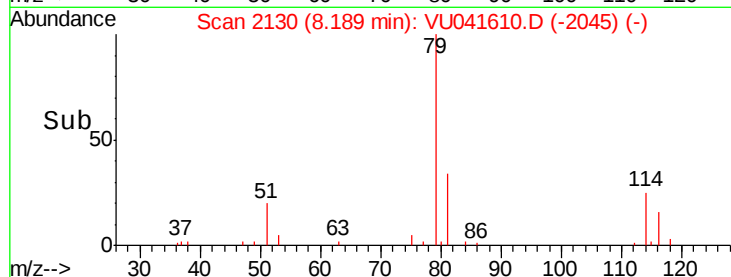
300

200

100

0

Time--> 8.14 8.16 8.18 8.20 8.22



#45

1,1,2-Trichloroethane

Concen: 3.305 ug/L

RT: 8.56 min Scan# 2245

Delta R.T. 0.15 min

Lab File: VU041610.D

Acq: 14 Dec 2020 14:05

Tgt Ion: 97 Resp: 25109

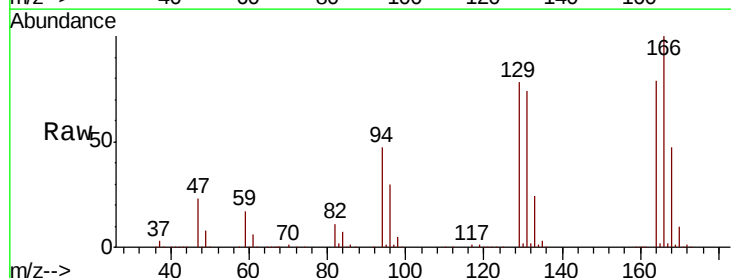
Ion Ratio Lower Upper

97 100

99 17.2 42.1 78.3#

83 271.9 62.6 116.2#

85 39.7 39.1 72.7



Abundance Ion 96.95 (96.65 to 97.65): VU041610.D (-2104) (-)

Ion 99.05 (98.75 to 99.75): VU041610.D (-2104) (-)

Ion 82.95 (82.65 to 83.65): VU041610.D (-2104) (-)

Ion 85.00 (84.70 to 85.70): VU041610.D (-2104) (-)

60000

50000

40000

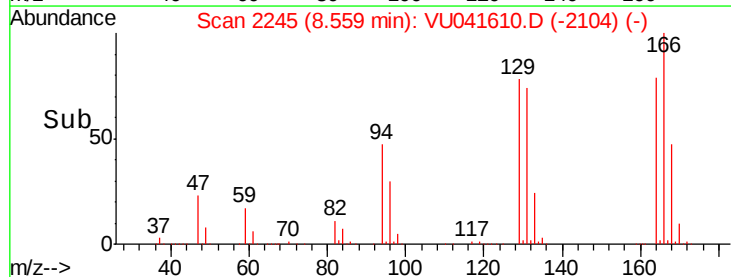
30000

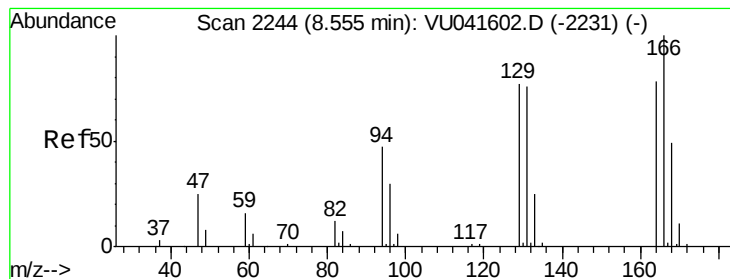
20000

10000

0

Time--> 8.50 8.55 8.60





#47

Tetrachloroethene

Concen: 422.245 ug/L

RT: 8.56 min Scan# 2246

Delta R.T. 0.01 min

Lab File: VU041610.D

Acq: 14 Dec 2020 14:05

Instrument :

MSVOA_U

ClientSampleId :

GB1K2

Tot Ion:164 Resp: 2982757

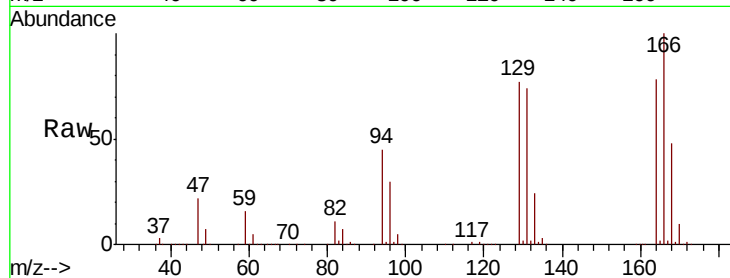
Ion Ratio Lower Upper

164 100

129 97.8 72.2 134.0

131 94.1 66.9 124.3

166 127.5 89.6 166.4

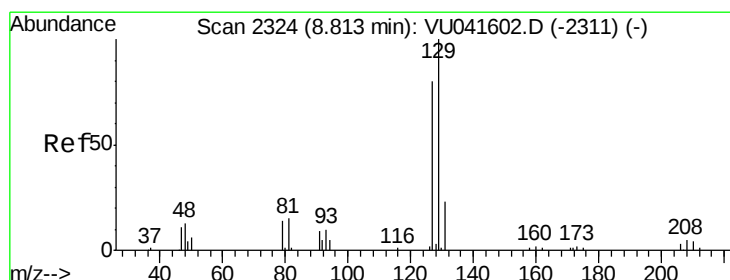
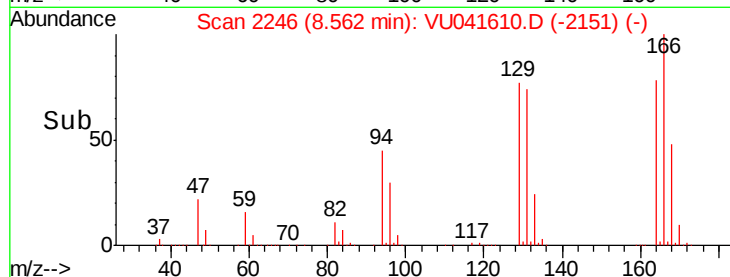
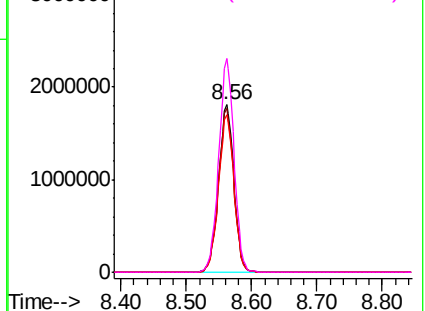


Abundance Ion 163.90 (163.60 to 164.60): V

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



#49

Dibromochloromethane

Concen: 332.168 ug/L

RT: 8.56 min Scan# 2246

Delta R.T. -0.25 min

Lab File: VU041610.D

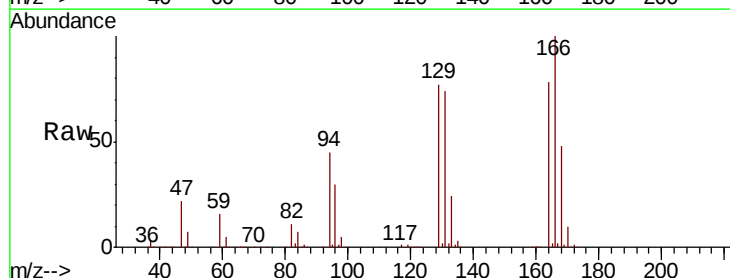
Acq: 14 Dec 2020 14:05

Tgt Ion:129 Resp: 2898257

Ion Ratio Lower Upper

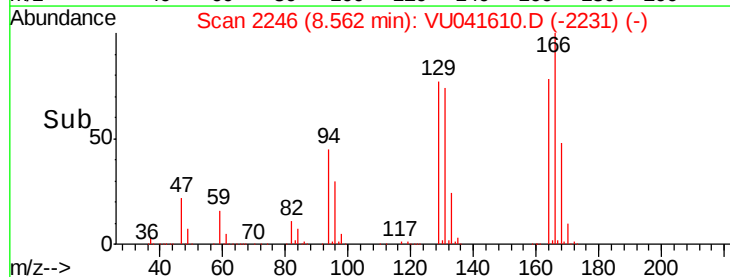
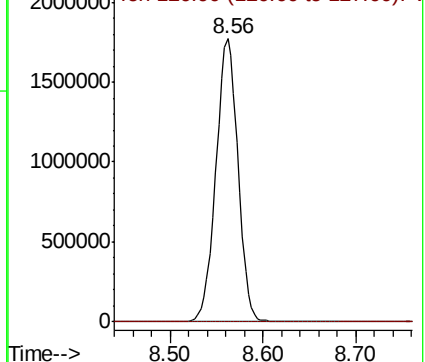
129 100

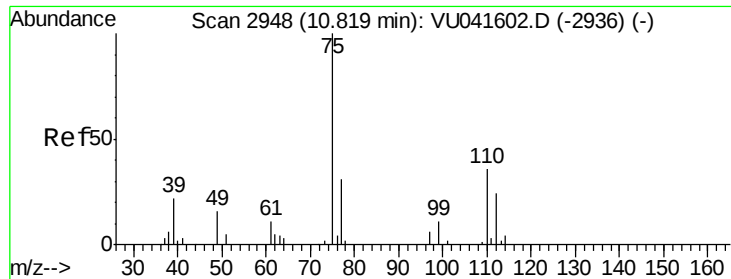
127 0.0 54.7 101.7#



Abundance Ion 128.95 (128.65 to 129.65): V

Ion 126.90 (126.60 to 127.60): V

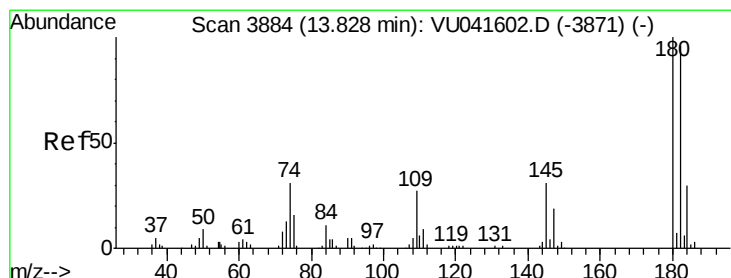
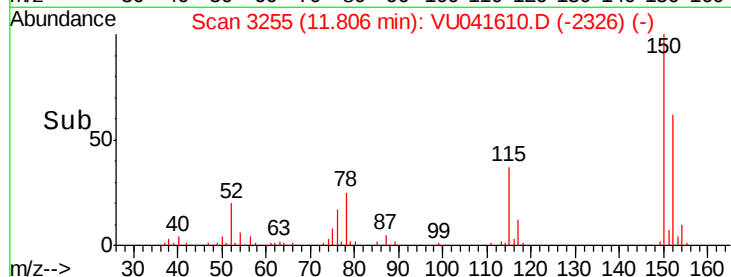
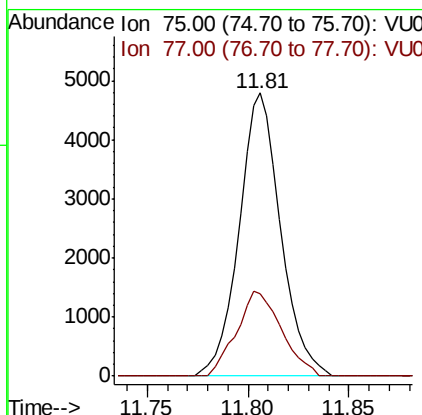
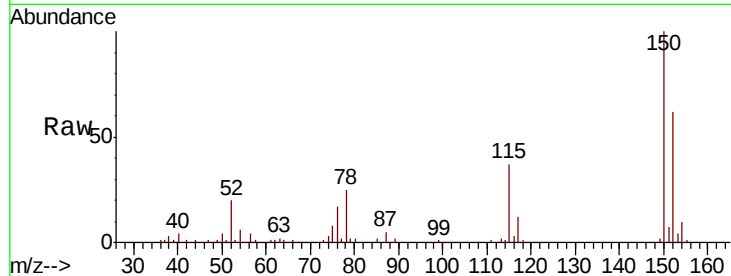




#59
 1,2,3-Trichloropropane
 Concen: 0.894 ug/L
 RT: 11.81 min Scan# 3255
 Delta R.T. 0.99 min
 Lab File: VU041610.D
 Acq: 14 Dec 2020 14:05

Instrument :
 MSVOA_U
 ClientSampleId :
 GB1K2

Tot Ion: 75 Resp: 6895
 Ion Ratio Lower Upper
 75 100
 77 32.5 26.2 39.2



#68
 1,2,4-trichlorobenzene
 Concen: 0.029 ug/L
 RT: 13.83 min Scan# 3884
 Delta R.T. 0.00 min
 Lab File: VU041610.D
 Acq: 14 Dec 2020 14:05

Tgt Ion: 180 Resp: 349
 Ion Ratio Lower Upper
 180 100
 182 92.8 75.4 113.0
 145 15.5 24.5 36.7#

