

Data Path : Z:\VOASRV\HPCHEM1\MSVOA U\DATA\U121520\
 Data File : VU041633.D
 Acq On : 15 Dec 2020 13:56
 Operator : SY/MD
 Sample : L5029-06MSD 50X
 Misc : 25.0mL/MSVOA U/WATER
 ALS Vial : 9 Sample Multiplier: 1

Instrument :
 MSVOA_U
 ClientSampleId :
 GB1K4MSD

Quant Time: Dec 16 02:46:04 2020
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_U\METHOD\SOMUTR121220WMA.M
 Quant Title : TRACE VOA SOM01.0
 QLast Update : Wed Dec 16 02:41:48 2020
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Difluorobenzene	6.26	114	119702	5.00	ug/L	0.00
28) Chlorobenzene-d5	9.42	117	115768	5.00	ug/L	0.00
60) 1,4-Dichlorobenzene-d4	11.81	152	52602	5.00	ug/L	0.00

System Monitoring Compounds

4) Vinyl Chloride-d3	1.60	65	28664	3.06	ug/L	0.00
Spiked Amount	5.000	Range	40 - 130	Recovery	=	61.20%
7) Chloroethane-d5	1.92	69	29285	4.04	ug/L	0.00
Spiked Amount	5.000	Range	65 - 130	Recovery	=	80.80%
11) 1,1-Dichloroethene-d2	2.58	63	70220	4.07	ug/L	0.00
Spiked Amount	5.000	Range	60 - 125	Recovery	=	81.40%
20) 2-Butanone-d5	4.67	46	137950	51.32	ug/L	0.00
Spiked Amount	50.000	Range	40 - 130	Recovery	=	102.64%
24) Chloroform-d	5.08	84	73320	4.57	ug/L	0.00
Spiked Amount	5.000	Range	70 - 125	Recovery	=	91.40%
26) 1,2-Dichloroethane-d4	5.72	65	45093	4.96	ug/L	0.00
Spiked Amount	5.000	Range	70 - 130	Recovery	=	99.20%
32) Benzene-d6	5.74	84	143101	4.32	ug/L	0.00
Spiked Amount	5.000	Range	70 - 125	Recovery	=	86.40%
36) 1,2-Dichloropropane-d6	6.70	67	46019	4.43	ug/L	0.00
Spiked Amount	5.000	Range	60 - 140	Recovery	=	88.60%
41) Toluene-d8	7.90	98	122542	4.10	ug/L	0.00
Spiked Amount	5.000	Range	70 - 130	Recovery	=	82.00%
43) trans-1,3-Dichloropropene-	8.19	79	19664	4.21	ug/L	0.00
Spiked Amount	5.000	Range	55 - 130	Recovery	=	84.20%
46) 2-Hexanone-d5	8.64	63	112656	44.10	ug/L	0.00
Spiked Amount	50.000	Range	45 - 130	Recovery	=	88.20%
57) 1,1,2,2-Tetrachloroethane-	10.75	84	46177	4.89	ug/L	0.00
Spiked Amount	5.000	Range	65 - 120	Recovery	=	97.80%
64) 1,2-Dichlorobenzene-d4	12.19	152	49052	5.24	ug/L	0.00
Spiked Amount	5.000	Range	80 - 120	Recovery	=	104.80%

Target Compounds

					Ovalue
8) Chloroethane	1.95	64	355	0.048 ug/L #	44
10) 1,1,2-Trichloro-1,2,2-trif	2.58	101	532	0.065 ug/L #	22
12) 1,1-Dichloroethene	2.59	96	42510	5.235 ug/L	91
16) Methylene chloride	3.06	84	1632	0.168 ug/L	95
25) Chloroform	5.10	83	859	0.054 ug/L #	75
27) 1,2-Dichloroethane	5.79	62	1902	0.178 ug/L #	73
33) Benzene	5.79	78	181516	4.903 ug/L	100
34) Trichloroethene	6.55	95	47652	5.122 ug/L	98
35) Methylcyclohexane	6.70	83	10523	0.700 ug/L #	18
37) 1,2-Dichloropropane	6.70	63	4571	0.483 ug/L #	88
39) cis-1,3-Dichloropropene	7.57	75	949	0.068 ug/L #	77
42) Toluene	7.97	91	182496	4.774 ug/L	100
44) trans-1,3-Dichloropropene	8.19	75	945	0.075 ug/L	87
45) 1,1,2-Trichloroethane	8.56	97	2030	0.290 ug/L #	1
47) Tetrachloroethene	8.56	164	259267	39.808 ug/L	98
48) 2-Hexanone	8.64	43	13634	2.780 ug/L #	61
49) Dibromochloromethane	8.56	129	252358	31.370 ug/L #	10

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Instrument :
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ClientSampleId :
GB1K4MSD

Quant Time: Dec 16 02:46:04 2020
Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_U\METHOD\SOMUTR121220WMA.M
Quant Title : TRACE VOA SOM01.0
QLast Update : Wed Dec 16 02:41:48 2020
Response via : Initial Calibration

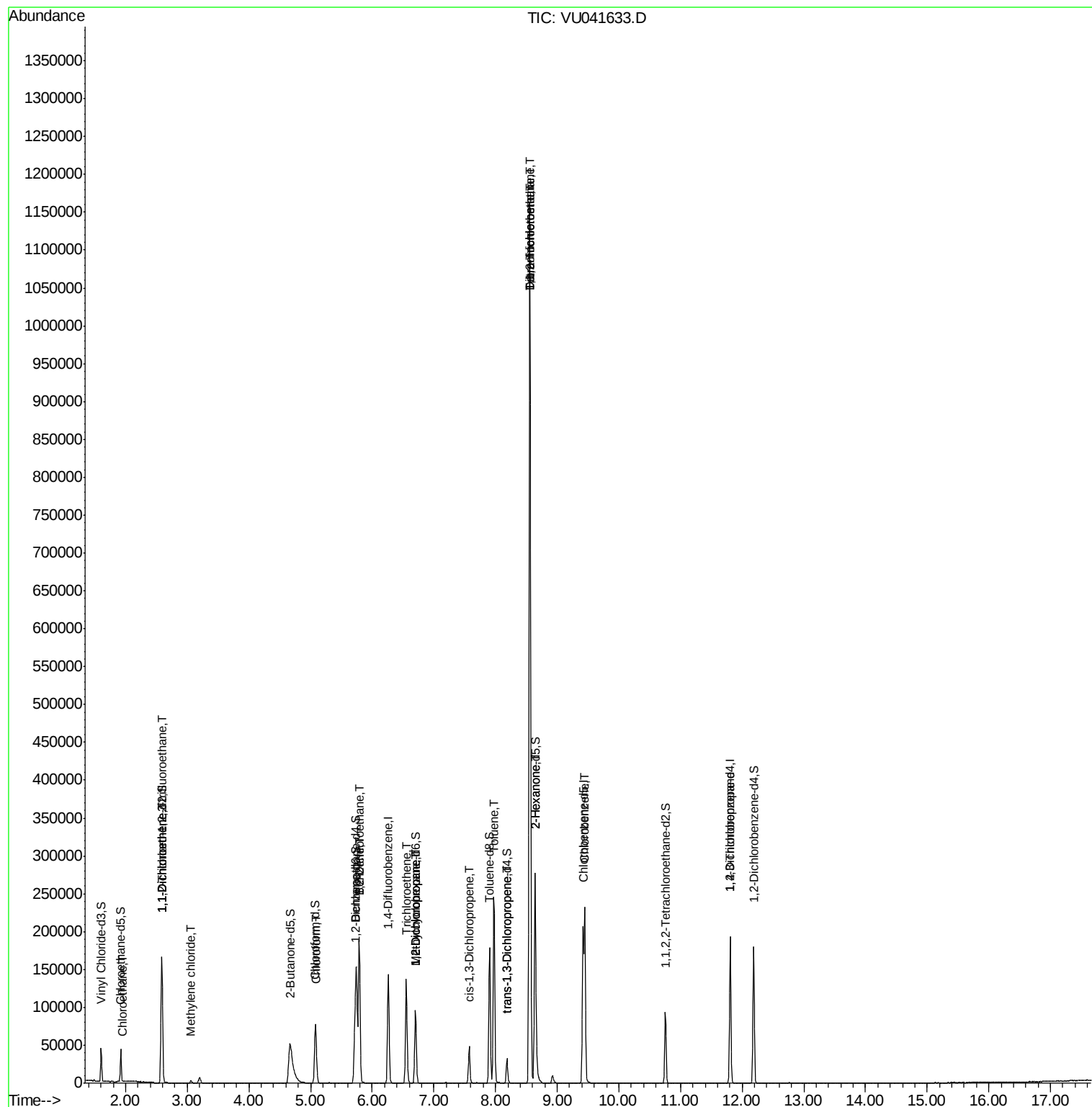
Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
51) Chlorobenzene	9.45	112	121754	5.124	ug/L	97
59) 1,2,3-Trichloropropane	11.81	75	5632	0.792	ug/L #	42

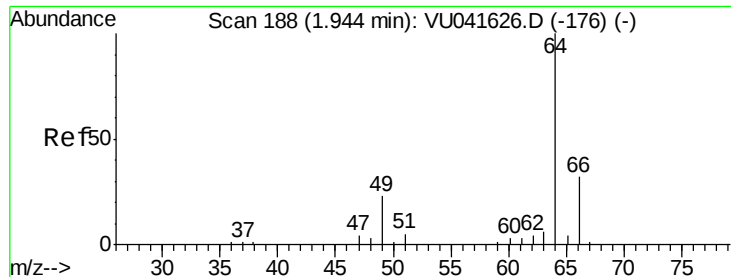
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\V0ASRV\HPCHEM1\MSVOA U\DATA\VU121520\
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QLast Update : Wed Dec 16 02:41:48 2020
Response via : Initial Calibration





#8

Chloroethane

Concen: 0.048 ug/L

RT: 1.95 min Scan# 191

Delta R.T. 0.01 min

Lab File: VU041633.D

Acq: 15 Dec 2020 13:56

Instrument :

MSVOA_U

ClientSampleId :

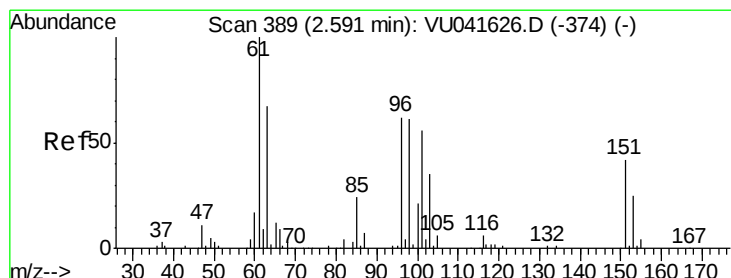
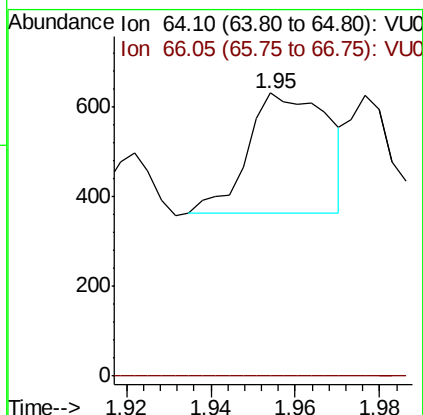
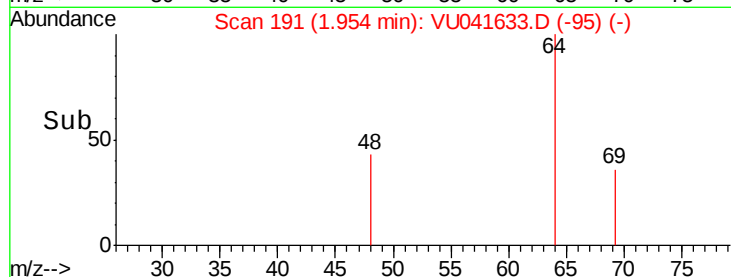
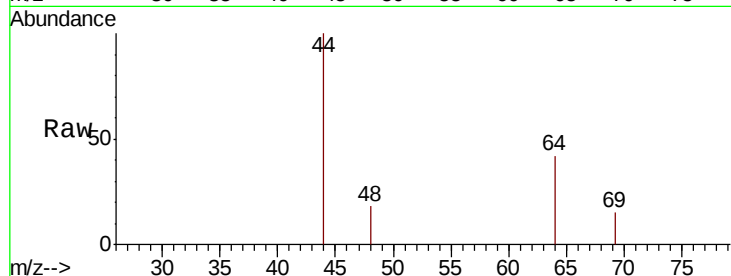
GB1K4MSD

Tot Ion: 64 Resp: 355

Ion Ratio Lower Upper

64 100

66 0.0 21.6 40.0#



#10

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

Concen: 0.065 ug/L

RT: 2.58 min Scan# 385

Delta R.T. -0.01 min

Lab File: VU041633.D

Acq: 15 Dec 2020 13:56

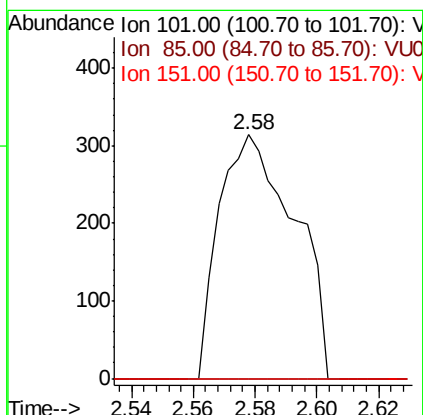
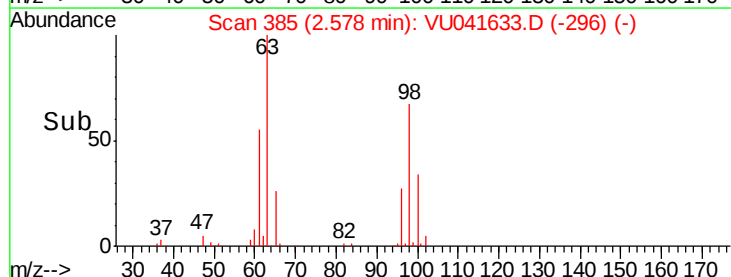
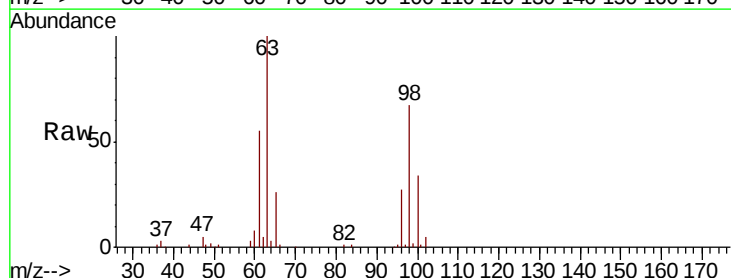
Tgt Ion: 101 Resp: 532

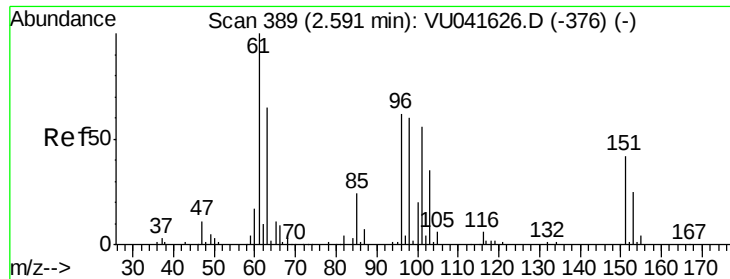
Ion Ratio Lower Upper

101 100

85 0.0 33.6 50.4#

151 0.0 56.2 84.4#

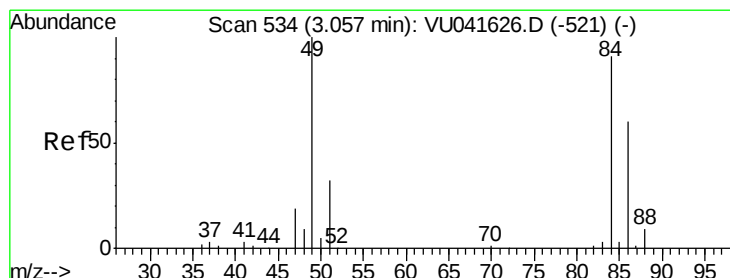
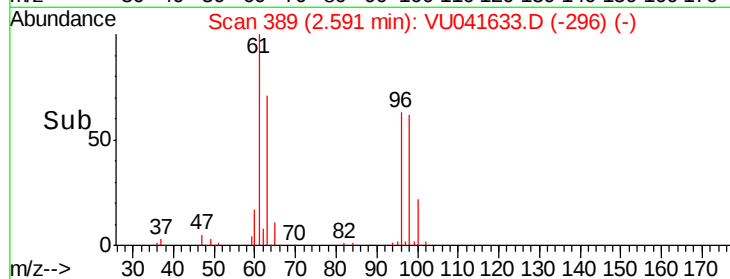
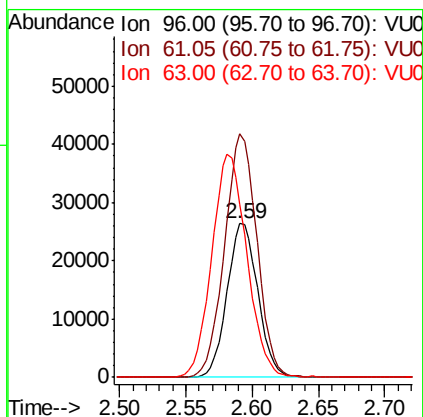
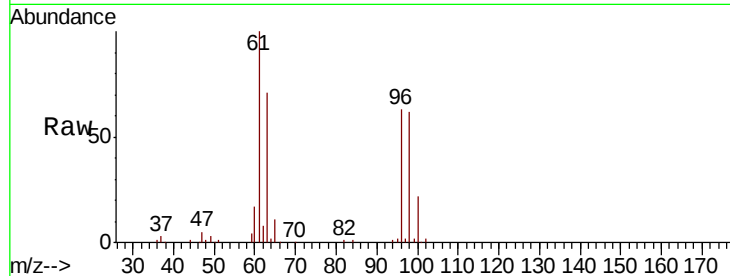




#12
 1,1-Dichloroethene
 Concen: 5.235 ug/L
 RT: 2.59 min Scan# 389
 Delta R.T. -0.00 min
 Lab File: VU041633.D
 Acq: 15 Dec 2020 13:56

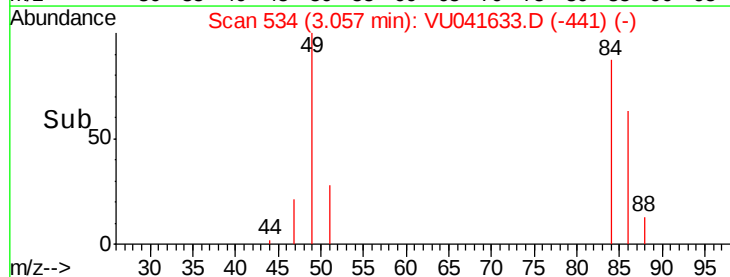
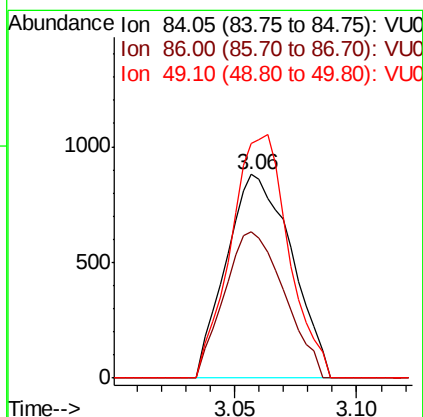
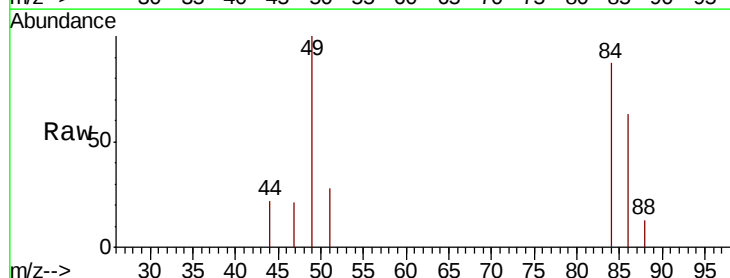
Instrument :
 MSVOA_U
 ClientSampleId :
 GB1K4MSD

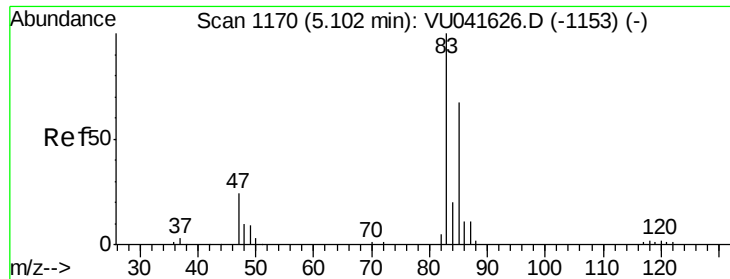
Tot Ion:	96	Resp:	42510
Ion	Ratio	Lower	Upper
96	100		
61	158.6	123.8	230.0
63	112.9	81.0	150.4



#16
 Methylene chloride
 Concen: 0.168 ug/L
 RT: 3.06 min Scan# 534
 Delta R.T. -0.00 min
 Lab File: VU041633.D
 Acq: 15 Dec 2020 13:56

Tgt Ion:	84	Resp:	1632
Ion	Ratio	Lower	Upper
84	100		
86	72.0	45.1	83.7
49	115.2	83.1	154.3

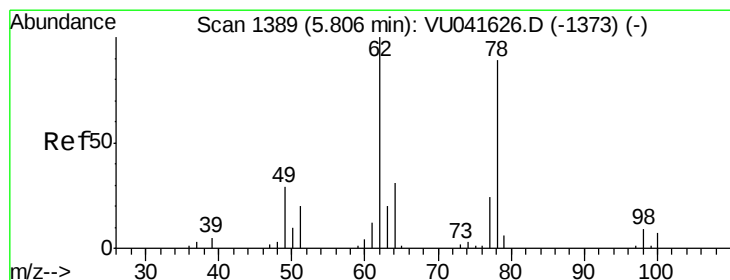
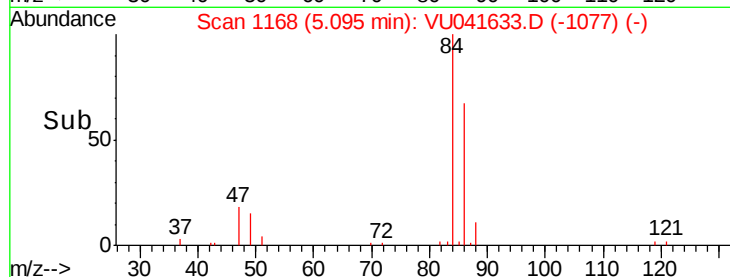
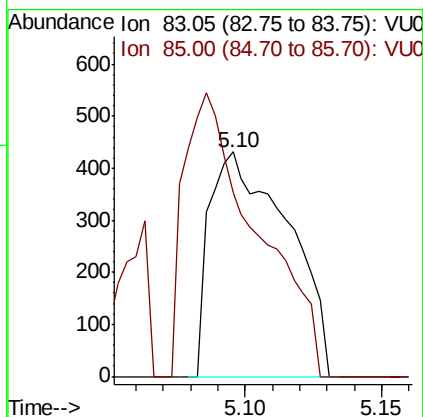
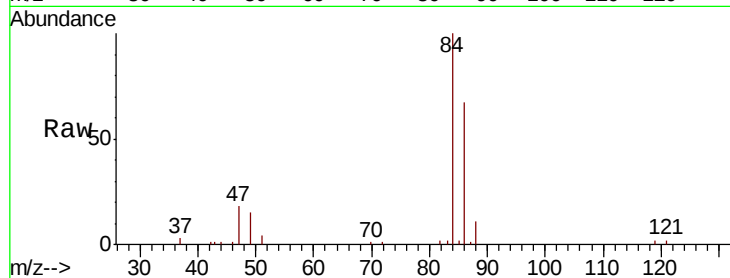




#25
Chloroform
Concen: 0.054 ug/L
RT: 5.10 min Scan# 1168
Delta R.T. -0.01 min
Lab File: VU041633.D
Acq: 15 Dec 2020 13:56

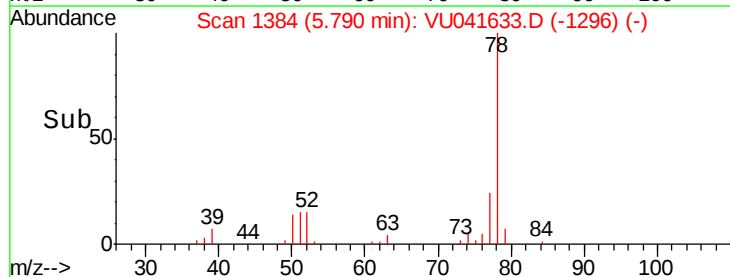
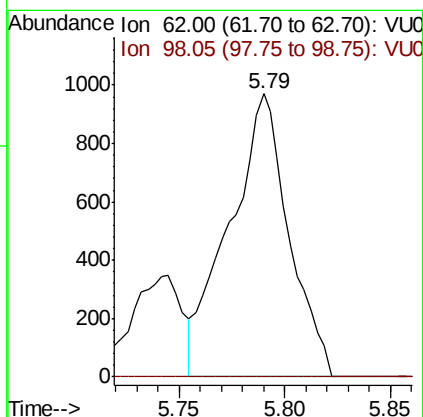
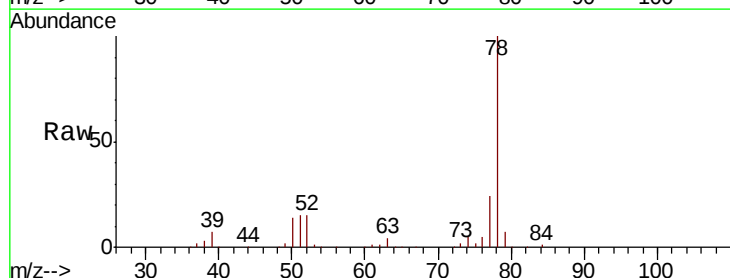
Instrument :
MSVOA_U
ClientSampleId :
GB1K4MSD

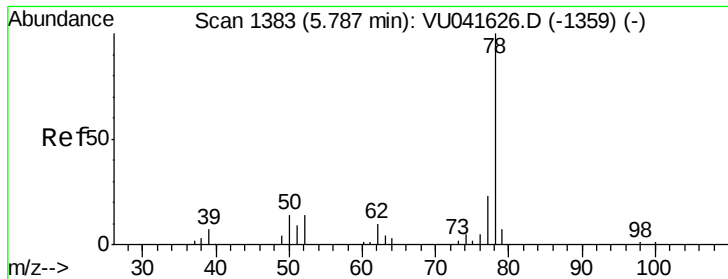
Tot Ion: 83 Resp: 859
Ion Ratio Lower Upper
83 100
85 82.1 44.2 82.0#



#27
1,2-Dichloroethane
Concen: 0.178 ug/L
RT: 5.79 min Scan# 1384
Delta R.T. -0.02 min
Lab File: VU041633.D
Acq: 15 Dec 2020 13:56

Tgt Ion: 62 Resp: 1902
Ion Ratio Lower Upper
62 100
98 0.0 8.2 12.2#





#33

Benzene

Concen: 4.903 ug/L

RT: 5.79 min Scan# 1383

Delta R.T. -0.00 min

Lab File: VU041633.D

Acq: 15 Dec 2020 13:56

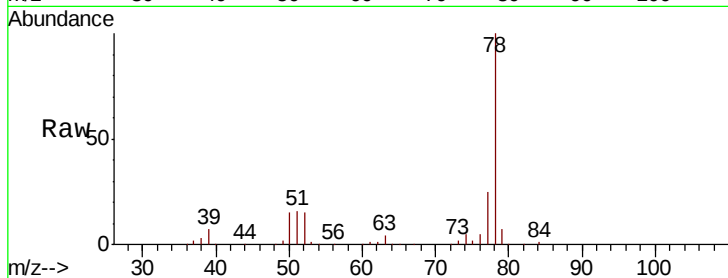
Instrument :

MSVOA_U

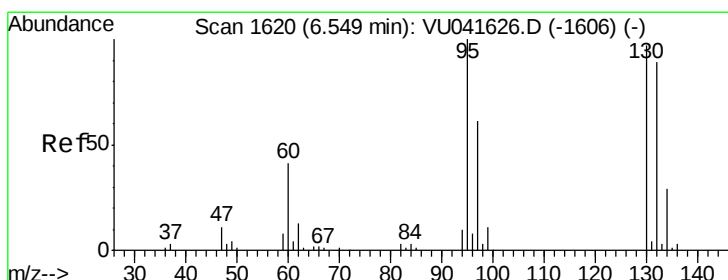
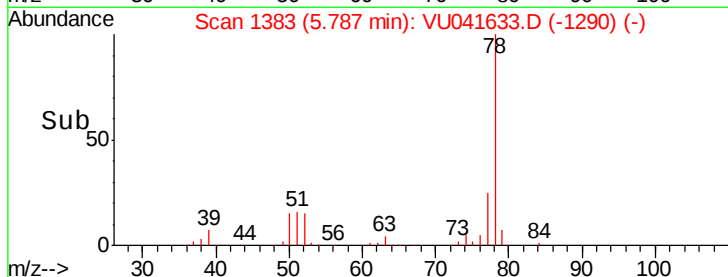
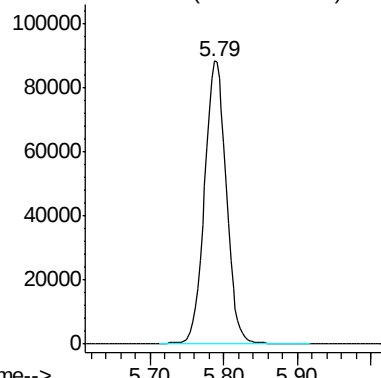
ClientSampleId :

GB1K4MSD

Tgt Ion: 78 Resp: 181516



Abundance Ion 78.10 (77.80 to 78.80): VU0



#34

Trichloroethene

Concen: 5.122 ug/L

RT: 6.55 min Scan# 1621

Delta R.T. 0.00 min

Lab File: VU041633.D

Acq: 15 Dec 2020 13:56

Tgt Ion: 95 Resp: 47652

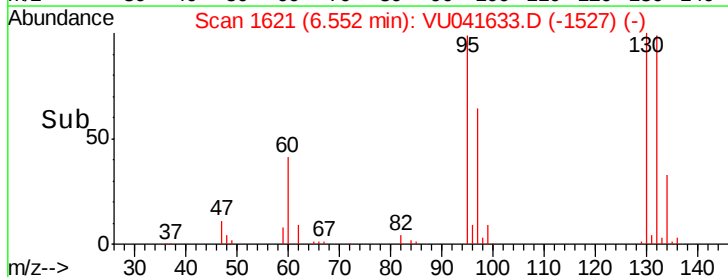
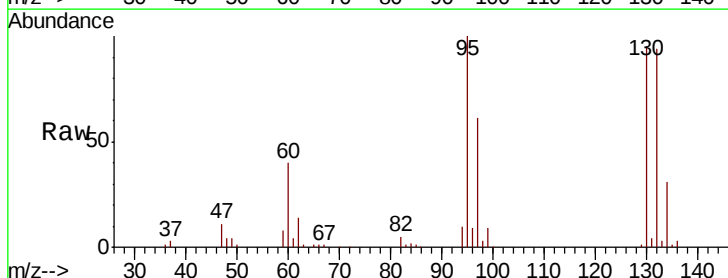
Ion	Ratio	Lower	Upper
95	100		
97	61.2	43.9	81.5
132	94.2	63.1	117.3
130	95.2	67.4	125.2

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



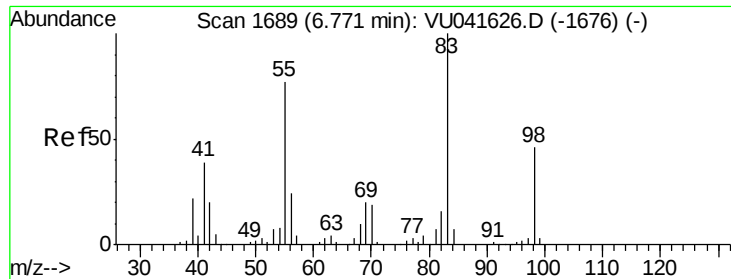
Abundance Ion 95.00 (94.70 to 95.70): VU0

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

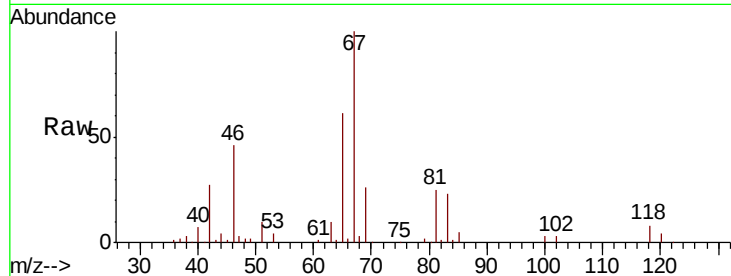
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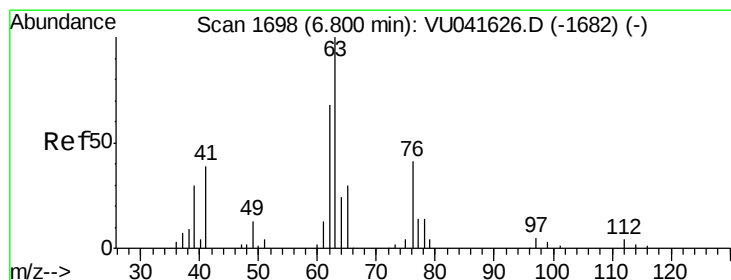
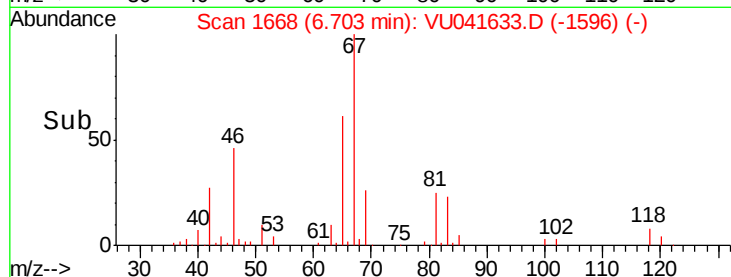
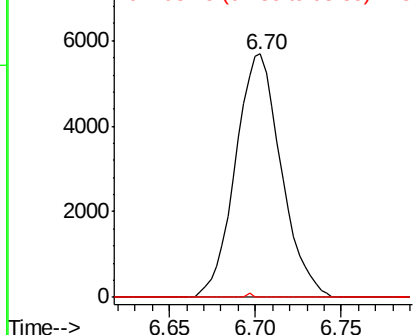
#35
Methvlcvclohexane
Concen: 0.700 ug/L
RT: 6.70 min Scan# 1668
Delta R.T. -0.07 min
Lab File: VU041633.D
Acq: 15 Dec 2020 13:56

Instrument :
MSVOA_U
ClientSampleId :
GB1K4MSD

Tot Ion	83.15	Resp	10523
Ion	Ratio	Lower	Upper
83	100		
55	0.0	61.2	91.8#
98	0.0	36.6	54.8#

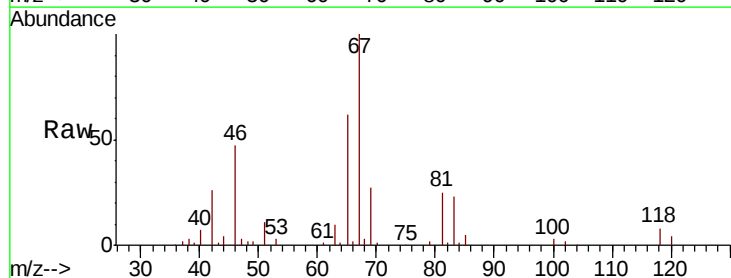


Abundance Ion 83.15 (82.85 to 83.85): VU0
Ion 55.10 (54.80 to 55.80): VU0
Ion 98.15 (97.85 to 98.85): VU0

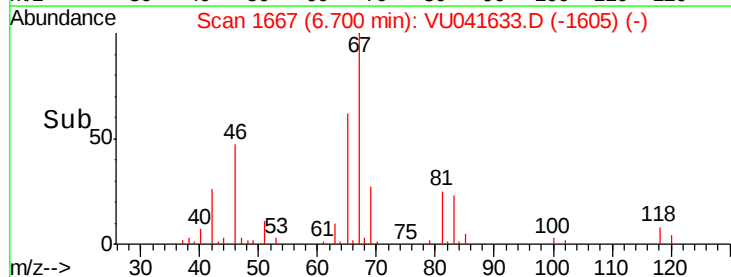
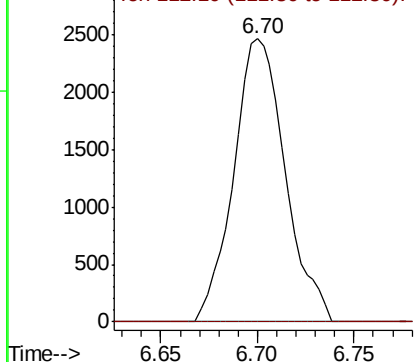


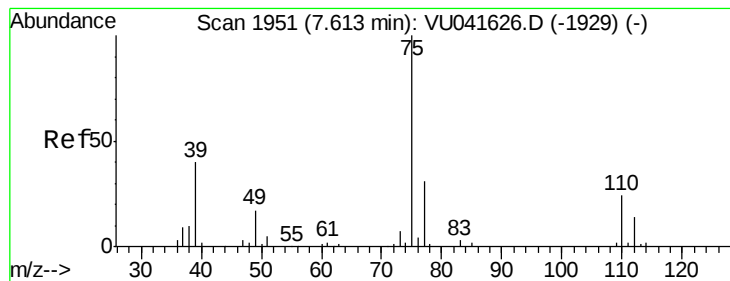
#37
1,2-Dichloropropane
Concen: 0.483 ug/L
RT: 6.70 min Scan# 1667
Delta R.T. -0.10 min
Lab File: VU041633.D
Acq: 15 Dec 2020 13:56

Tgt Ion	63	Resp	4571
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



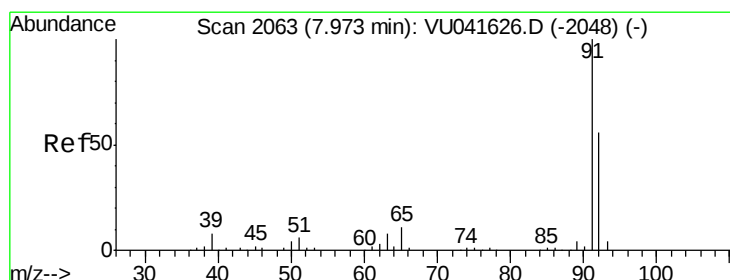
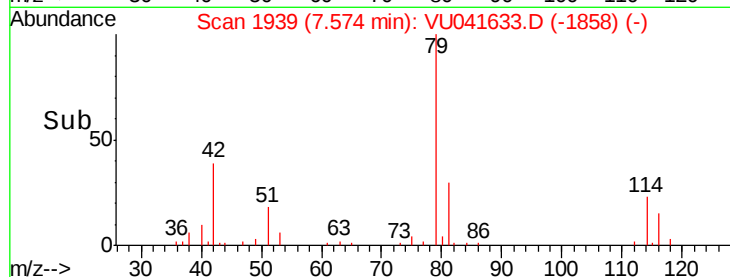
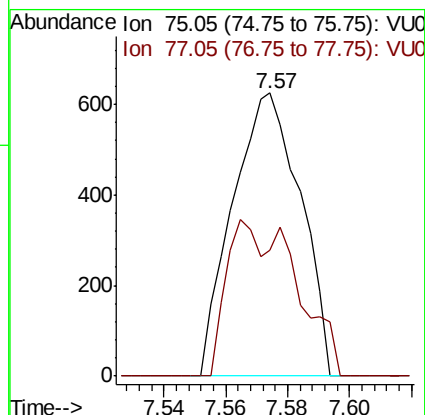
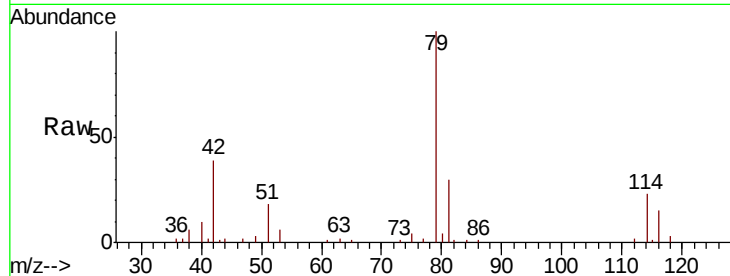


#39

cis-1,3-Dichloropropene
Concen: 0.068 ug/L
RT: 7.57 min Scan# 1939
Delta R.T. -0.04 min
Lab File: VU041633.D
Acq: 15 Dec 2020 13:56

Instrument :
MSVOA_U
ClientSampleId :
GB1K4MSD

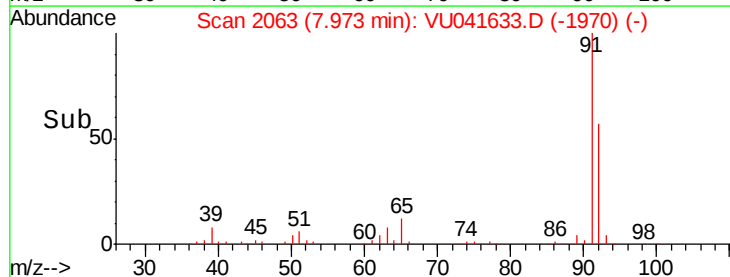
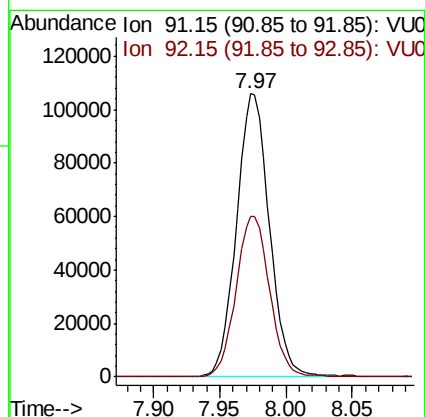
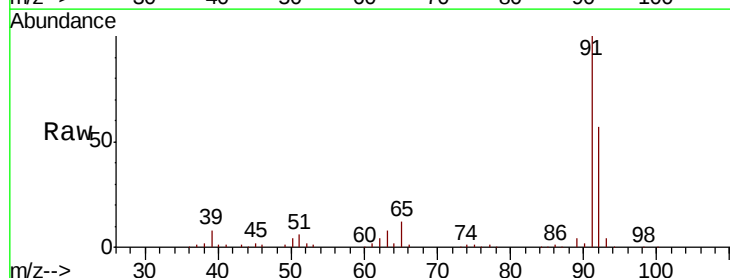
Tot Ion: 75 Resp: 949
Ion Ratio Lower Upper
75 100
77 44.3 22.3 41.3#

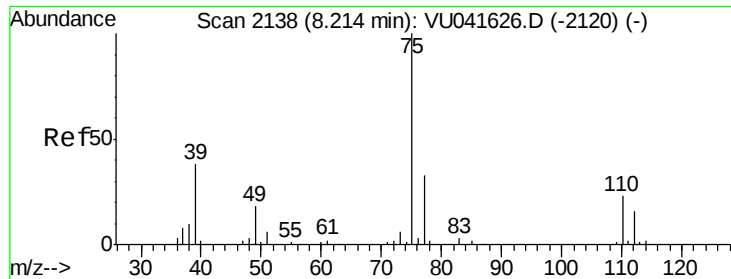


#42

Toluene
Concen: 4.774 ug/L
RT: 7.97 min Scan# 2063
Delta R.T. -0.00 min
Lab File: VU041633.D
Acq: 15 Dec 2020 13:56

Tgt Ion: 91 Resp: 182496
Ion Ratio Lower Upper
91 100
92 56.9 40.0 74.2

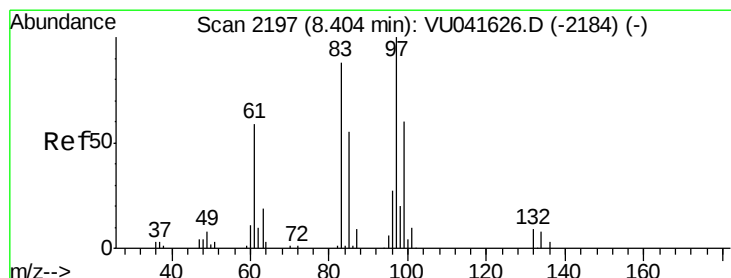
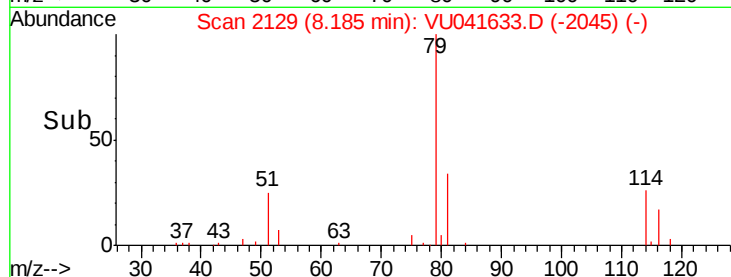
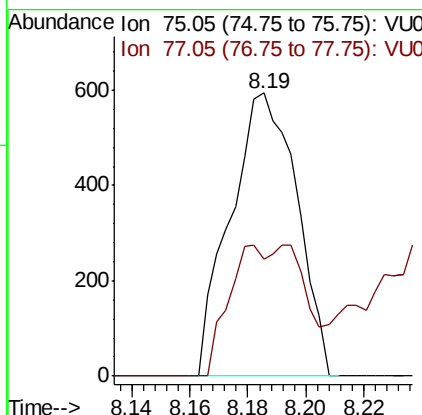
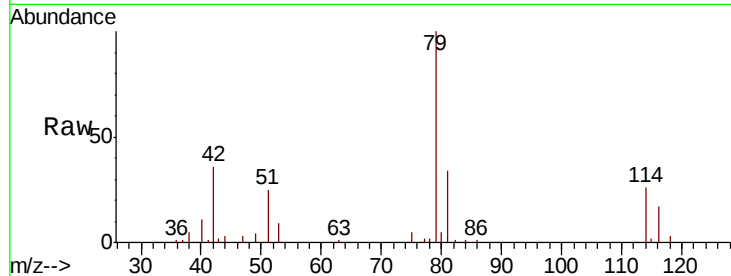




#44
trans-1,3-Dichloropropene
Concen: 0.075 ug/L
RT: 8.19 min Scan# 2129
Delta R.T. -0.03 min
Lab File: VU041633.D
Acq: 15 Dec 2020 13:56

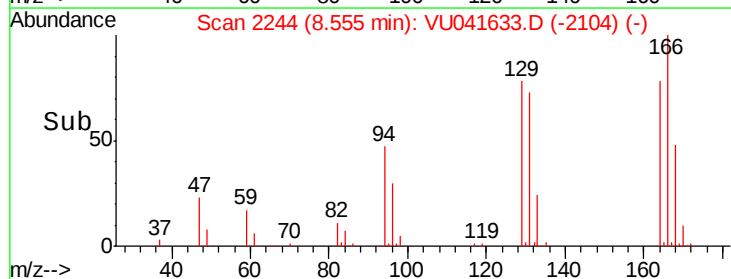
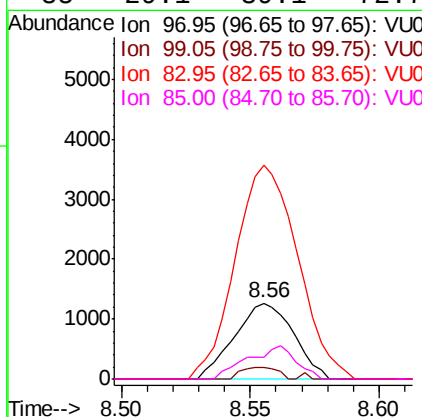
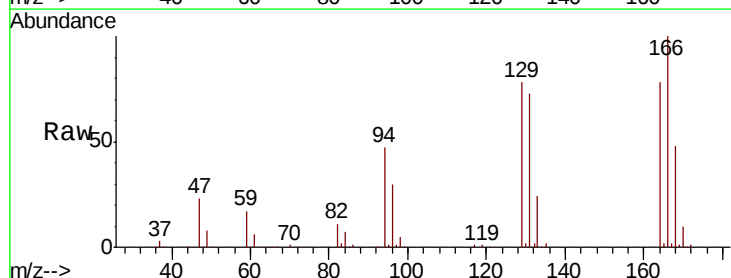
Instrument :
MSVOA_U
ClientSampleId :
GB1K4MSD

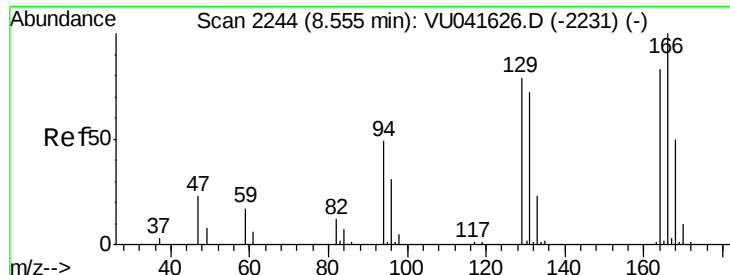
Tot Ion: 75 Resp: 945
Ion Ratio Lower Upper
75 100
77 41.4 23.8 44.2



#45
1,1,2-Trichloroethane
Concen: 0.290 ug/L
RT: 8.56 min Scan# 2244
Delta R.T. 0.15 min
Lab File: VU041633.D
Acq: 15 Dec 2020 13:56

Tgt Ion: 97 Resp: 2030
Ion Ratio Lower Upper
97 100
99 15.0 42.1 78.3#
83 282.3 62.6 116.2#
85 29.1 39.1 72.7#





#47

Tetrachloroethene

Concen: 39.808 ug/L

RT: 8.56 min Scan# 2245

Delta R.T. 0.00 min

Lab File: VU041633.D

Acq: 15 Dec 2020 13:56

Instrument :

MSVOA_U

ClientSampleId :

GB1K4MSD

Tot Ion:164 Resp: 259267

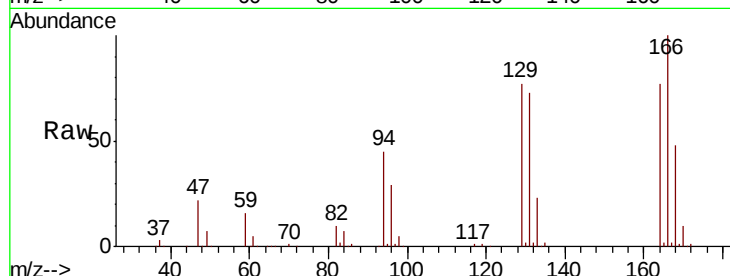
Ion Ratio Lower Upper

164 100

129 100.0 72.2 134.0

131 94.5 66.9 124.3

166 129.5 89.6 166.4

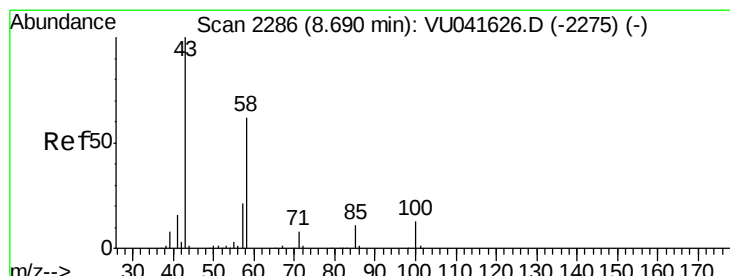
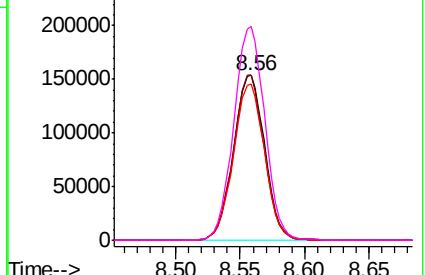
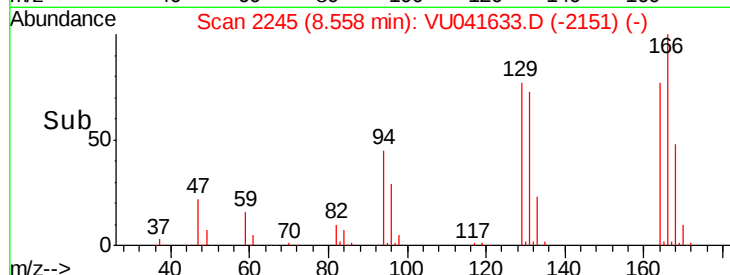


Abundance Ion 163.90 (163.60 to 164.60): V

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



#48

2-Hexanone

Concen: 2.780 ug/L

RT: 8.64 min Scan# 2271

Delta R.T. -0.05 min

Lab File: VU041633.D

Acq: 15 Dec 2020 13:56

Tgt Ion: 43 Resp: 13634

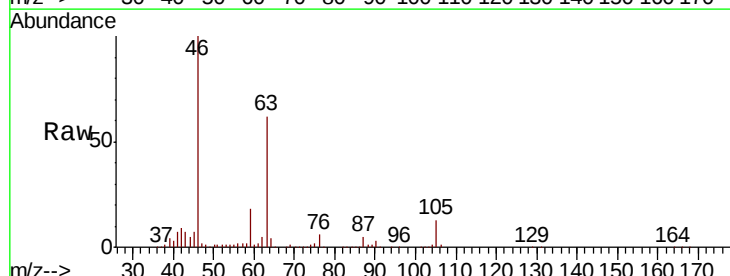
Ion Ratio Lower Upper

43 100

58 24.4 47.9 71.9#

57 29.7 16.5 24.7#

100 0.3 9.4 14.2#

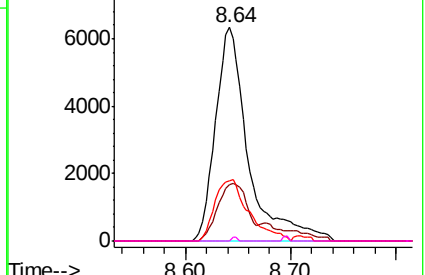
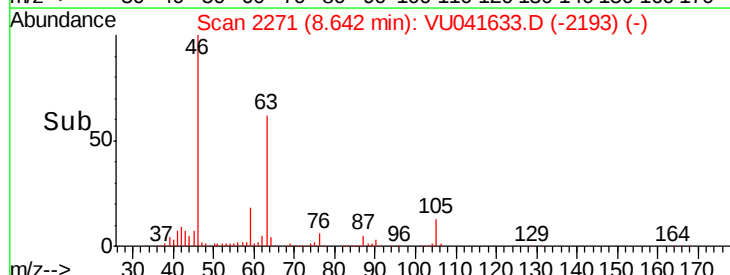


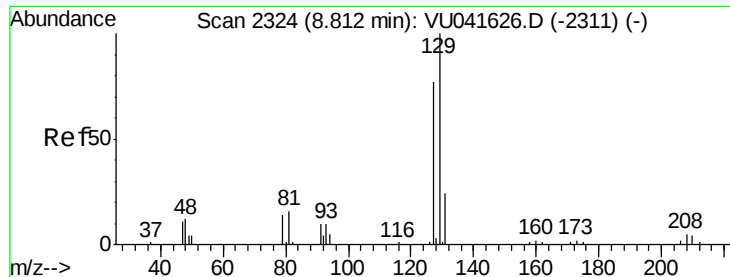
Abundance Ion 43.05 (42.75 to 43.75): VU0

Ion 58.05 (57.75 to 58.75): VU0

Ion 57.20 (56.90 to 57.90): VU0

Ion 100.15 (99.85 to 100.85): VU0





#49

Dibromochloromethane

Concen: 31.370 ug/L

RT: 8.56 min Scan# 2245

Delta R.T. -0.25 min

Lab File: VU041633.D

Acq: 15 Dec 2020 13:56

Instrument :

MSVOA_U

ClientSampleId :

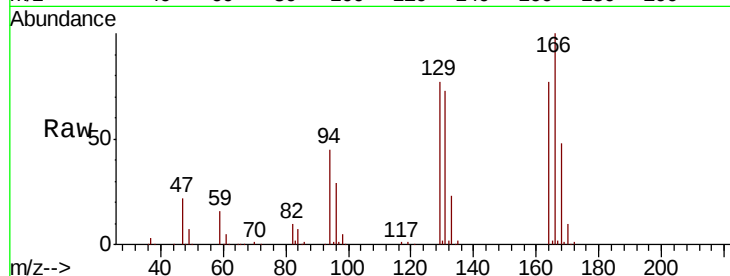
GB1K4MSD

Tot Ion:129 Resp: 252358

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

8.56

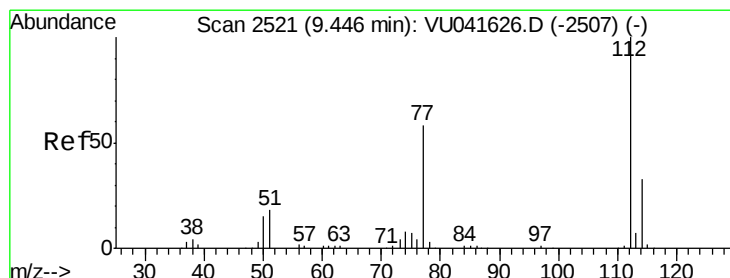
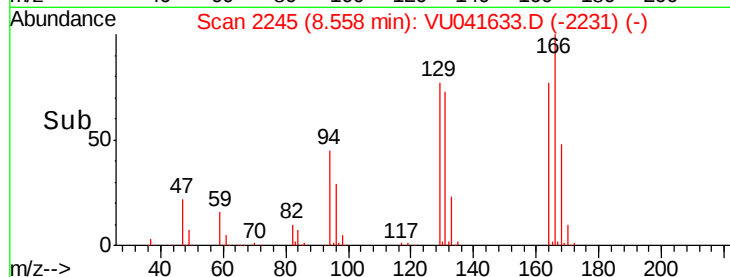
150000

100000

50000

0

Time-->



#51

Chlorobenzene

Concen: 5.124 ug/L

RT: 9.45 min Scan# 2522

Delta R.T. 0.00 min

Lab File: VU041633.D

Acq: 15 Dec 2020 13:56

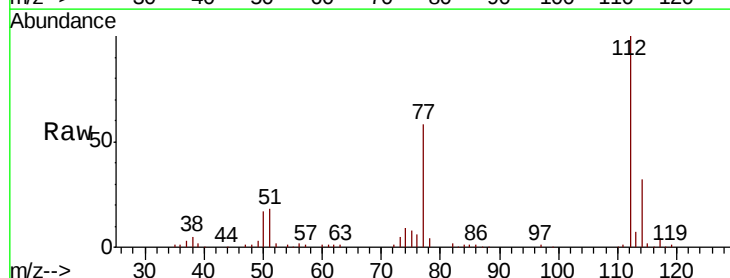
Tgt Ion:112 Resp: 121754

Ion Ratio Lower Upper

112 100

114 32.4 22.7 42.3

77 57.8 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): VU0

100000

80000

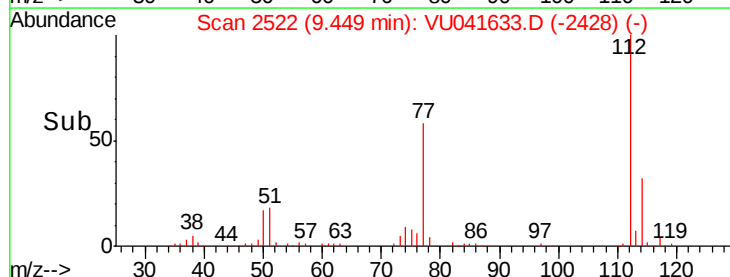
60000

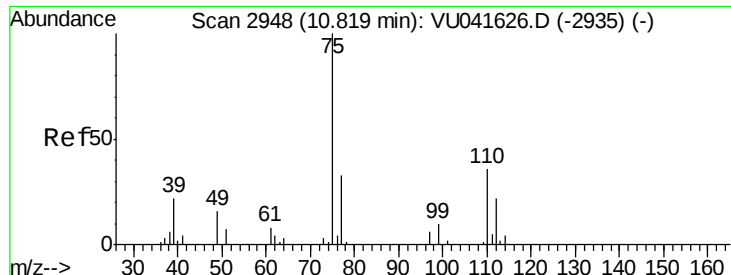
40000

20000

0

Time-->





#59

1,2,3-Trichloropropane

Concen: 0.792 ug/L

RT: 11.81 min Scan# 3256

Delta R.T. 0.99 min

Lab File: VU041633.D

Acq: 15 Dec 2020 13:56

Instrument :

MSVOA_U

ClientSampleId :

GB1K4MSD

Tot Ion: 75 Resp: 5632

Ion Ratio Lower Upper

75 100

77 0.0 26.2 39.2#

