

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 03:16:19 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

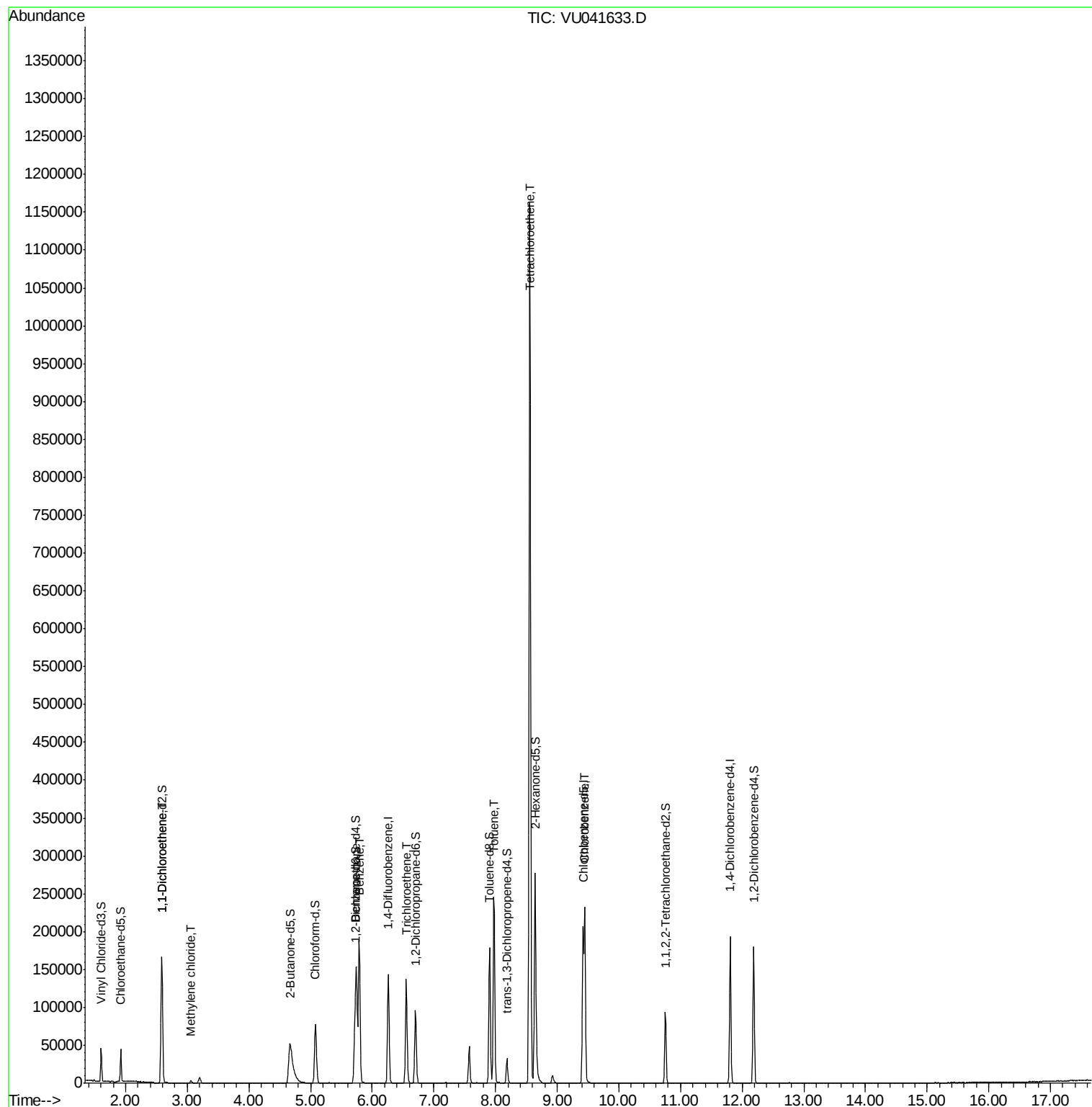
					Ovalue
12) 1,1-Dichloroethene	2.59	96	42510	5.235 ug/L	91
16) Methylene chloride	3.06	84	1632	0.168 ug/L	95
33) Benzene	5.79	78	181516	4.903 ug/L	100
34) Trichloroethene	6.55	95	47652	5.122 ug/L	98
42) Toluene	7.97	91	182496	4.774 ug/L	100
47) Tetrachloroethene	8.56	164	259267	39.808 ug/L	98
51) Chlorobenzene	9.45	112	121754	5.124 ug/L	97

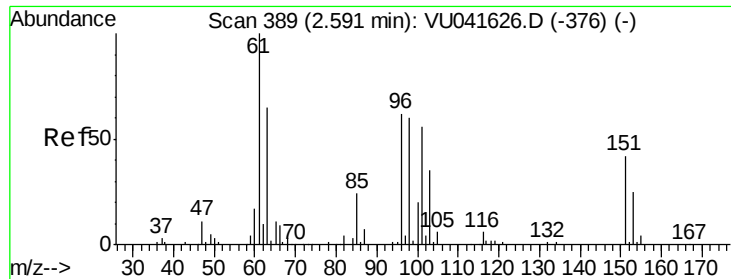
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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ALS Vial : 9 Sample Multiplier: 1

Instrument :
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ClientSampleId :
GB1K4MSD

Quant Time: Dec 16 03:16:19 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





#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

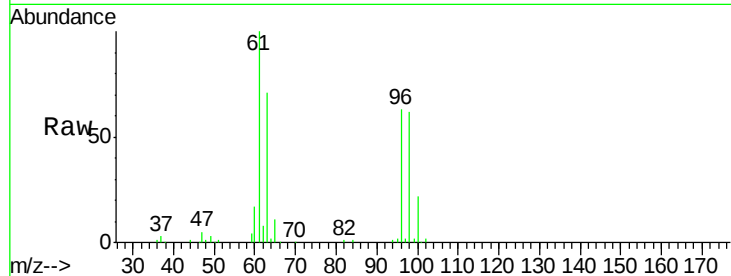
Tot Ion: 96 Resp: 42510

Ion Ratio Lower Upper

96 100

61 158.6 123.8 230.0

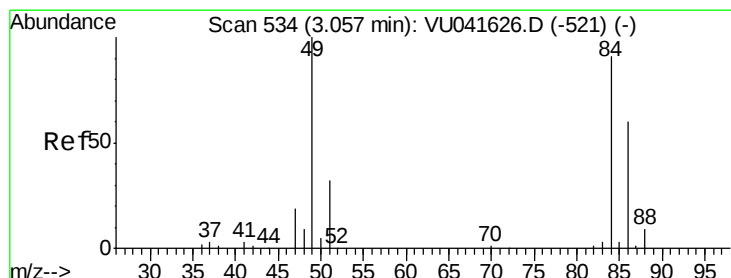
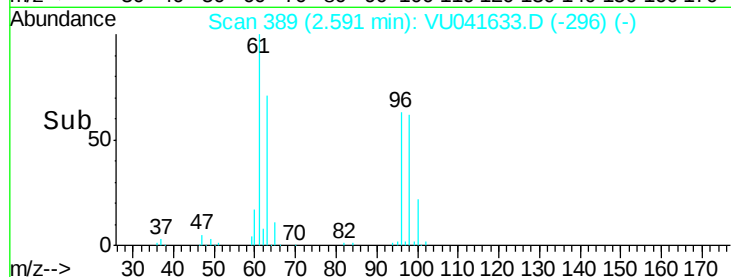
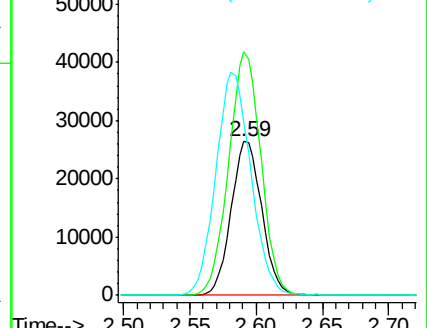
63 112.9 81.0 150.4



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



#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

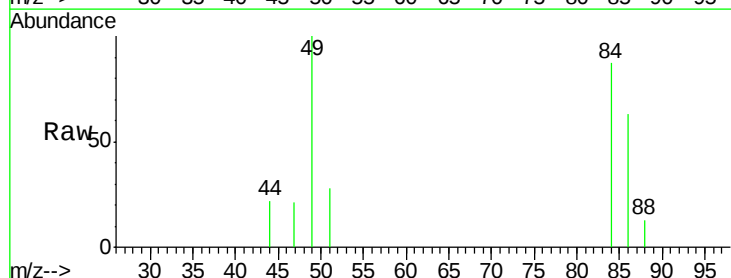
Tgt Ion: 84 Resp: 1632

Ion Ratio Lower Upper

84 100

86 72.0 45.1 83.7

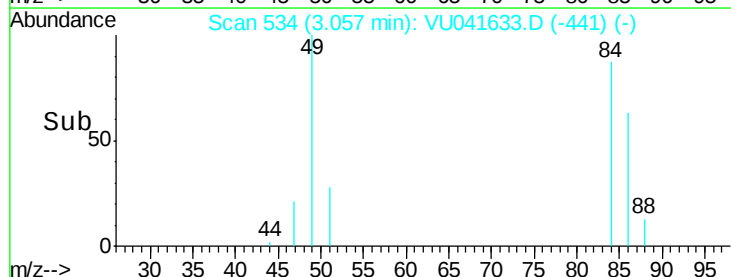
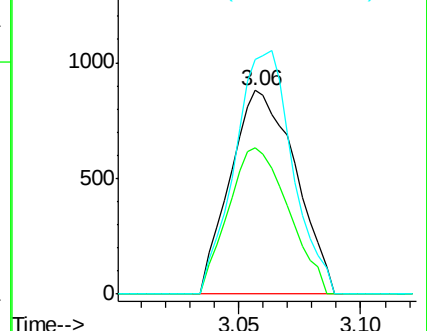
49 115.2 83.1 154.3

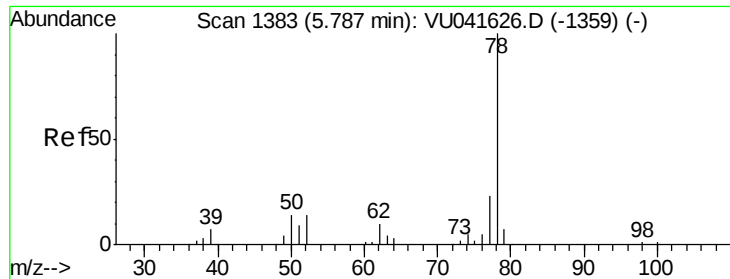


Abundance Ion 84.05 (83.75 to 84.75): VU0

Ion 86.00 (85.70 to 86.70): VU0

Ion 49.10 (48.80 to 49.80): VU0





#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

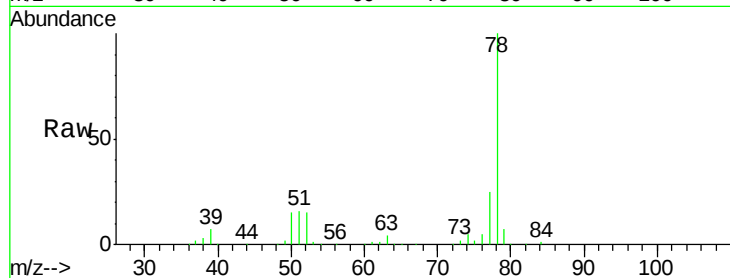
Instrument :

MSVOA_U

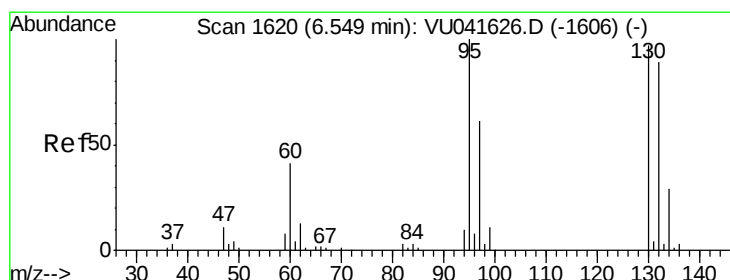
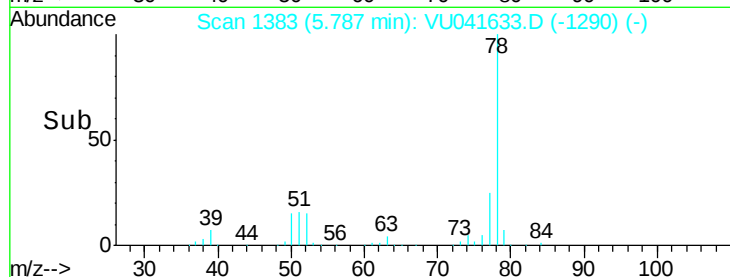
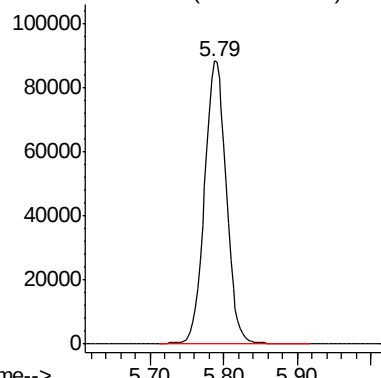
ClientSampleId :

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

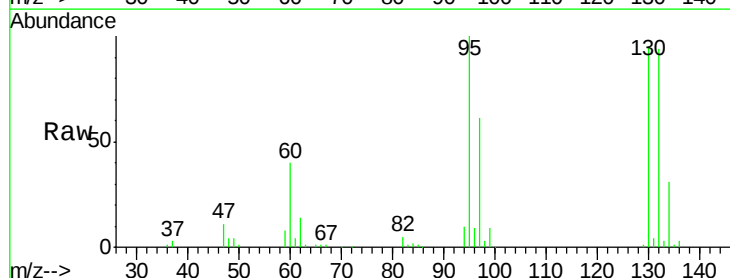
Ion	Ratio	Lower	Upper
95	100		
97	61.2	43.9	81.5
132	94.2	63.1	117.3
130	95.2	67.4	125.2

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): VU0

Ion 129.95 (129.65 to 130.65): VU0



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): VU0

Ion 129.95 (129.65 to 130.65): VU0

Ion 127.95 (127.65 to 128.65): VU0

Ion 125.95 (125.65 to 126.65): VU0

Ion 123.95 (123.65 to 124.65): VU0

Ion 121.95 (121.65 to 122.65): VU0

Ion 119.95 (119.65 to 120.65): VU0

Ion 117.95 (117.65 to 118.65): VU0

Ion 115.95 (115.65 to 116.65): VU0

Ion 113.95 (113.65 to 114.65): VU0

Ion 111.95 (111.65 to 112.65): VU0

Ion 109.95 (109.65 to 110.65): VU0

Ion 107.95 (107.65 to 108.65): VU0

Ion 105.95 (105.65 to 106.65): VU0

Ion 103.95 (103.65 to 104.65): VU0

Ion 101.95 (101.65 to 102.65): VU0

Ion 99.95 (99.65 to 100.65): VU0

Ion 97.95 (97.65 to 98.65): VU0

Ion 95.95 (95.65 to 96.65): VU0

Ion 93.95 (93.65 to 94.65): VU0

Ion 91.95 (91.65 to 92.65): VU0

Ion 89.95 (89.65 to 90.65): VU0

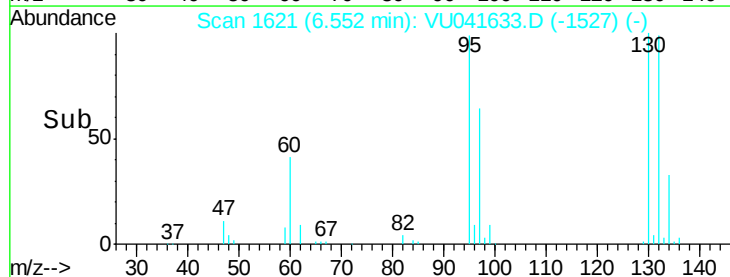
Ion 87.95 (87.65 to 88.65): VU0

Ion 85.95 (85.65 to 86.65): VU0

Ion 83.95 (83.65 to 84.65): VU0

Ion 81.95 (81.65 to 82.65): VU0

Ion 79.95 (79.65 to 80.65): VU0



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): VU0

Ion 129.95 (129.65 to 130.65): VU0

Ion 127.95 (127.65 to 128.65): VU0

Ion 125.95 (125.65 to 126.65): VU0

Ion 123.95 (123.65 to 124.65): VU0

Ion 121.95 (121.65 to 122.65): VU0

Ion 119.95 (119.65 to 120.65): VU0

Ion 117.95 (117.65 to 118.65): VU0

Ion 115.95 (115.65 to 116.65): VU0

Ion 113.95 (113.65 to 114.65): VU0

Ion 111.95 (111.65 to 112.65): VU0

Ion 109.95 (109.65 to 110.65): VU0

Ion 107.95 (107.65 to 108.65): VU0

Ion 105.95 (105.65 to 106.65): VU0

Ion 103.95 (103.65 to 104.65): VU0

Ion 101.95 (101.65 to 102.65): VU0

Ion 99.95 (99.65 to 100.65): VU0

Ion 97.95 (97.65 to 98.65): VU0

Ion 95.95 (95.65 to 96.65): VU0

Ion 93.95 (93.65 to 94.65): VU0

Ion 91.95 (91.65 to 92.65): VU0

Ion 89.95 (89.65 to 90.65): VU0

Ion 87.95 (87.65 to 88.65): VU0

Ion 85.95 (85.65 to 86.65): VU0

Ion 83.95 (83.65 to 84.65): VU0

Ion 81.95 (81.65 to 82.65): VU0

Ion 79.95 (79.65 to 80.65): VU0

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): VU0

Ion 129.95 (129.65 to 130.65): VU0

Ion 127.95 (127.65 to 128.65): VU0

Ion 125.95 (125.65 to 126.65): VU0

Ion 123.95 (123.65 to 124.65): VU0

Ion 121.95 (121.65 to 122.65): VU0

Ion 119.95 (119.65 to 120.65): VU0

Ion 117.95 (117.65 to 118.65): VU0

Ion 115.95 (115.65 to 116.65): VU0

Ion 113.95 (113.65 to 114.65): VU0

Ion 111.95 (111.65 to 112.65): VU0

Ion 109.95 (109.65 to 110.65): VU0

Ion 107.95 (107.65 to 108.65): VU0

Ion 105.95 (105.65 to 106.65): VU0

Ion 103.95 (103.65 to 104.65): VU0

Ion 101.95 (101.65 to 102.65): VU0

Ion 99.95 (99.65 to 100.65): VU0

Ion 97.95 (97.65 to 98.65): VU0

Ion 95.95 (95.65 to 96.65): VU0

Ion 93.95 (93.65 to 94.65): VU0

Ion 91.95 (91.65 to 92.65): VU0

Ion 89.95 (89.65 to 90.65): VU0

Ion 87.95 (87.65 to 88.65): VU0

Ion 85.95 (85.65 to 86.65): VU0

Ion 83.95 (83.65 to 84.65): VU0

Ion 81.95 (81.65 to 82.65): VU0

Ion 79.95 (79.65 to 80.65): VU0

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): VU0

Ion 129.95 (129.65 to 130.65): VU0

Ion 127.95 (127.65 to 128.65): VU0

Ion 125.95 (125.65 to 126.65): VU0

Ion 123.95 (123.65 to 124.65): VU0

Ion 121.95 (121.65 to 122.65): VU0

Ion 119.95 (119.65 to 120.65): VU0

Ion 117.95 (117.65 to 118.65): VU0

Ion 115.95 (115.65 to 116.65): VU0

Ion 113.95 (113.65 to 114.65): VU0

Ion 111.95 (111.65 to 112.65): VU0

Ion 109.95 (109.65 to 110.65): VU0

Ion 107.95 (107.65 to 108.65): VU0

Ion 105.95 (105.65 to 106.65): VU0

Ion 103.95 (103.65 to 104.65): VU0

Ion 101.95 (101.65 to 102.65): VU0

Ion 99.95 (99.65 to 100.65): VU0

Ion 97.95 (97.65 to 98.65): VU0

Ion 95.95 (95.65 to 96.65): VU0

Ion 93.95 (93.65 to 94.65): VU0

Ion 91.95 (91.65 to 92.65): VU0

Ion 89.95 (89.65 to 90.65): VU0

Ion 87.95 (87.65 to 88.65): VU0

Ion 85.95 (85.65 to 86.65): VU0

Ion 83.95 (83.65 to 84.65): VU0

Ion 81.95 (81.65 to 82.65): VU0

Ion 79.95 (79.65 to 80.65): VU0

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): VU0

Ion 129.95 (129.65 to 130.65): VU0

Ion 127.95 (127.65 to 128.65): VU0

Ion 125.95 (125.65 to 126.65): VU0

Ion 123.95 (123.65 to 124.65): VU0

Ion 121.95 (121.65 to 122.65): VU0

Ion 119.95 (119.65 to 120.65): VU0

Ion 117.95 (117.65 to 118.65): VU0

Ion 115.95 (115.65 to 116.65): VU0

Ion 113.95 (113.65 to 114.65): VU0

Ion 111.95 (111.65 to 112.65): VU0

Ion 109.95 (109.65 to 110.65): VU0

Ion 107.95 (107.65 to 108.65): VU0

Ion 105.95 (105.65 to 106.65): VU0

Ion 103.95 (103.65 to 104.65): VU0

Ion 101.95 (101.65 to 102.65): VU0

Ion 99.95 (99.65 to 100.65): VU0

Ion 97.95 (97.65 to 98.65): VU0

Ion 95.95 (95.65 to 96.65): VU0

Ion 93.95 (93.65 to 94.65): VU0

Ion 91.95 (91.65 to 92.65): VU0

Ion 89.95 (89.65 to 90.65): VU0

Ion 87.95 (87.65 to 88.65): VU0

Ion 85.95 (85.65 to 86.65): VU0

Ion 83.95 (83.65 to 84.65): VU0

Ion 81.95 (81.65 to 82.65): VU0

Ion 79.95 (79.65 to 80.65): VU0

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): VU0

Ion 129.95 (129.65 to 130.65): VU0

Ion 127.95 (127.65 to 128.65): VU0

Ion 125.95 (125.65 to 126.65): VU0

Ion 123.95 (123.65 to 124.65): VU0

Ion 121.95 (121.65 to 122.65): VU0

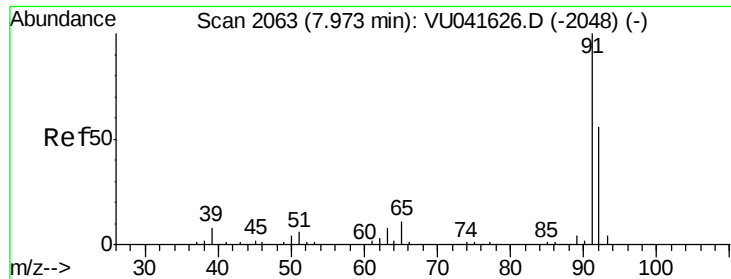
Ion 119.95 (119.65 to 120.65): VU0

Ion 117.95 (117.65 to 118.65): VU0

Ion 115.95 (115.65 to 116.65): VU0

Ion 113.95 (113.65 to 114.65): VU0

Ion 111.95 (111.65 to 112.65): VU0



#42

Toluene

Concen: 4.774 ug/L

RT: 7.97 min Scan# 2063

Delta R.T. -0.00 min

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ClientSampleId :

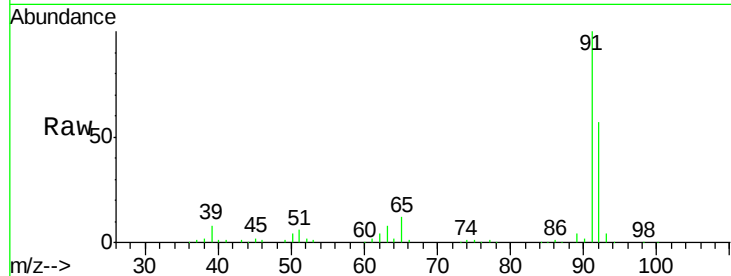
GB1K4MSD

Tot Ion: 91 Resp: 182496

Ion Ratio Lower Upper

91 100

92 56.9 40.0 74.2

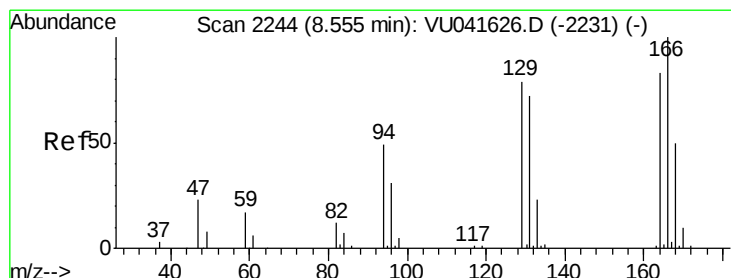
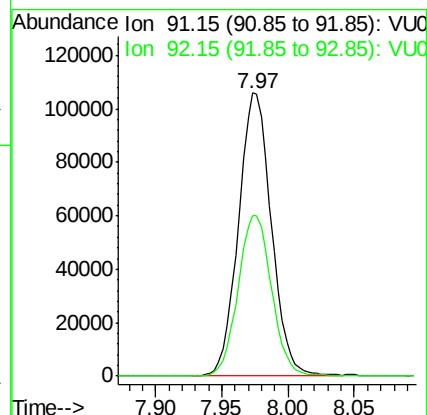
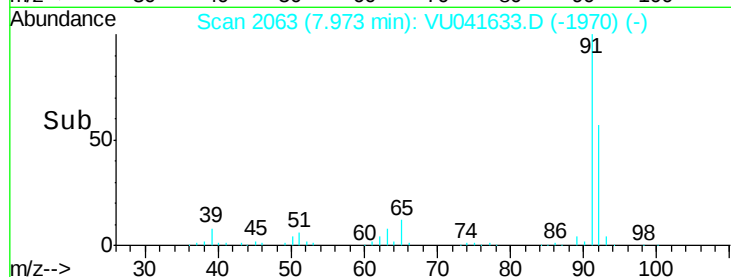


Abundance Ion 91.15 (90.85 to 91.85): VU041626.D (-2048) (-)

Ion 92.15 (91.85 to 92.85): VU041626.D (-2048) (-)

7.97

Time-->



#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

Tgt Ion: 164 Resp: 259267

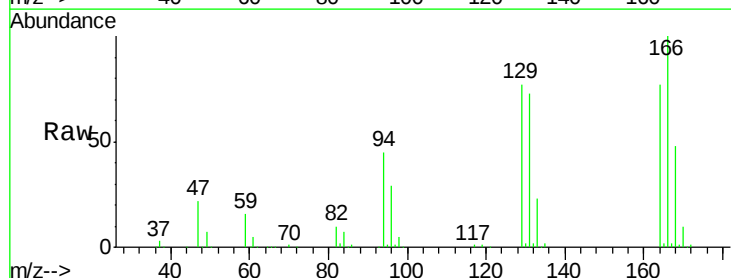
Ion Ratio Lower Upper

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): VU041626.D (-2231) (-)

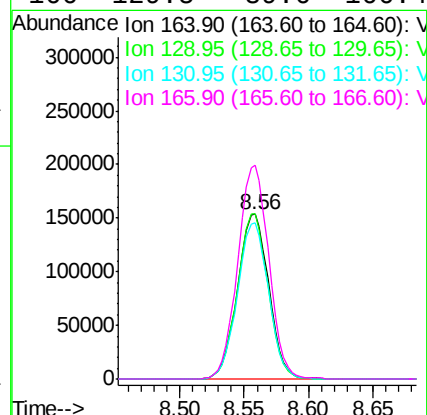
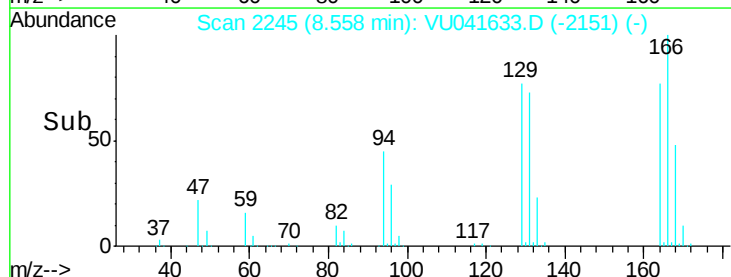
Ion 128.95 (128.65 to 129.65): VU041626.D (-2231) (-)

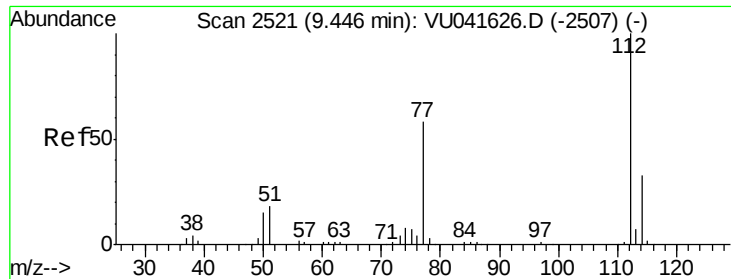
Ion 130.95 (130.65 to 131.65): VU041626.D (-2231) (-)

Ion 165.90 (165.60 to 166.60): VU041626.D (-2231) (-)

8.56

Time-->

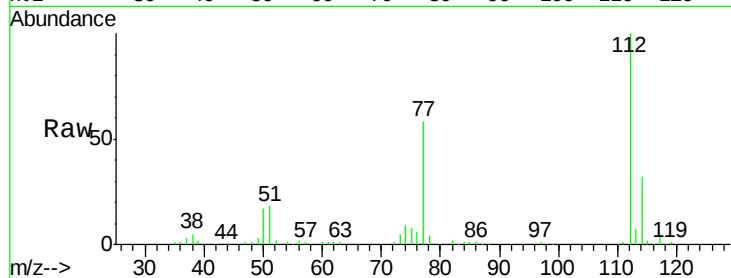




#51
 Chlorobenzene
 Concen: 5.124 ug/L
 RT: 9.45 min Scan# 2522
 Delta R.T. 0.00 min
 Lab File: VU041633.D
 Acq: 15 Dec 2020 13:56

Instrument :
 MSVOA_U
 ClientSampleId :
 GB1K4MSD

Tot 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): V

