

Data Path : Z:\VOASRV\HPCHEM1\MSVOA U\DATA\U121420\
 Data File : VU041619.D
 Acq On : 14 Dec 2020 18:37
 Operator : SY/MD
 Sample : L5027-17MS
 Misc : 25.0mL/MSVOA U/WATER
 ALS Vial : 20 Sample Multiplier: 1

Instrument :
 MSVOA_U
 ClientSampleId :

Quant Time: Dec 15 00:50:01 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	101069	5.00	ug/L	0.00
28) Chlorobenzene-d5	9.42	117	93245	5.00	ug/L	0.00
60) 1,4-Dichlorobenzene-d4	11.81	152	39490	5.00	ug/L	0.00

System Monitoring Compounds

4) Vinyl Chloride-d3	1.60	65	30281	3.83	ug/L	0.00
Spiked Amount	5.000	Range	40 - 130	Recovery	=	76.60%
7) Chloroethane-d5	1.92	69	29619	4.84	ug/L	0.00
Spiked Amount	5.000	Range	65 - 130	Recovery	=	96.80%
11) 1,1-Dichloroethene-d2	2.58	63	74192	5.10	ug/L	0.00
Spiked Amount	5.000	Range	60 - 125	Recovery	=	102.00%
20) 2-Butanone-d5	4.66	46	146039	64.34	ug/L	0.02
Spiked Amount	50.000	Range	40 - 130	Recovery	=	128.68%
24) Chloroform-d	5.08	84	76403	5.64	ug/L	0.00
Spiked Amount	5.000	Range	70 - 125	Recovery	=	112.80%
26) 1,2-Dichloroethane-d4	5.72	65	46213	6.02	ug/L	0.00
Spiked Amount	5.000	Range	70 - 130	Recovery	=	120.40%
32) Benzene-d6	5.74	84	151584	5.68	ug/L	0.00
Spiked Amount	5.000	Range	70 - 125	Recovery	=	113.60%
36) 1,2-Dichloropropane-d6	6.70	67	51014	6.09	ug/L	0.00
Spiked Amount	5.000	Range	60 - 140	Recovery	=	121.80%
41) Toluene-d8	7.90	98	131175	5.44	ug/L	0.00
Spiked Amount	5.000	Range	70 - 130	Recovery	=	108.80%
43) trans-1,3-Dichloropropene-	8.19	79	20340	5.40	ug/L	0.00
Spiked Amount	5.000	Range	55 - 130	Recovery	=	108.00%
46) 2-Hexanone-d5	8.64	63	118234	57.46	ug/L	0.00
Spiked Amount	50.000	Range	45 - 130	Recovery	=	114.92%
57) 1,1,2,2-Tetrachloroethane-	10.75	84	49955	6.57	ug/L	0.00
Spiked Amount	5.000	Range	65 - 120	Recovery	=	131.40%#
64) 1,2-Dichlorobenzene-d4	12.19	152	49808	7.09	ug/L	0.00
Spiked Amount	5.000	Range	80 - 120	Recovery	=	141.80%#

Target Compounds

Target Compounds	R.T.	QIon	Response	Conc	Units	Ovalue
3) Chloromethane	1.52	50	407	0.049	ug/L #	40
8) Chloroethane	1.94	64	811	0.130	ug/L #	44
10) 1,1,2-Trichloro-1,2,2-trif	2.57	101	579	0.083	ug/L #	22
12) 1,1-Dichloroethene	2.59	96	42175	6.151	ug/L	89
25) Chloroform	5.10	83	735	0.055	ug/L	89
27) 1,2-Dichloroethane	5.78	62	1476	0.163	ug/L #	73
33) Benzene	5.79	78	183515	6.154	ug/L	100
34) Trichloroethene	6.55	95	46860	6.253	ug/L	96
35) Methylcyclohexane	6.70	83	12106	0.999	ug/L #	18
37) 1,2-Dichloropropane	6.70	63	5316	0.697	ug/L #	88
38) Bromodichloromethane	7.12	83	347	0.037	ug/L #	92
39) cis-1,3-Dichloropropene	7.58	75	1278	0.113	ug/L #	64
42) Toluene	7.97	91	186551	6.059	ug/L	99
44) trans-1,3-Dichloropropene	8.19	75	871	0.086	ug/L #	53
47) Tetrachloroethene	8.56	164	4915	0.937	ug/L	92
48) 2-Hexanone	8.69	43	1831	0.464	ug/L #	84
49) Dibromochloromethane	8.56	129	4749	0.733	ug/L #	10

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Quant Title : TRACE VOA SOM01.0
QLast Update : Tue Dec 15 00:46:25 2020
Response via : Initial Calibration

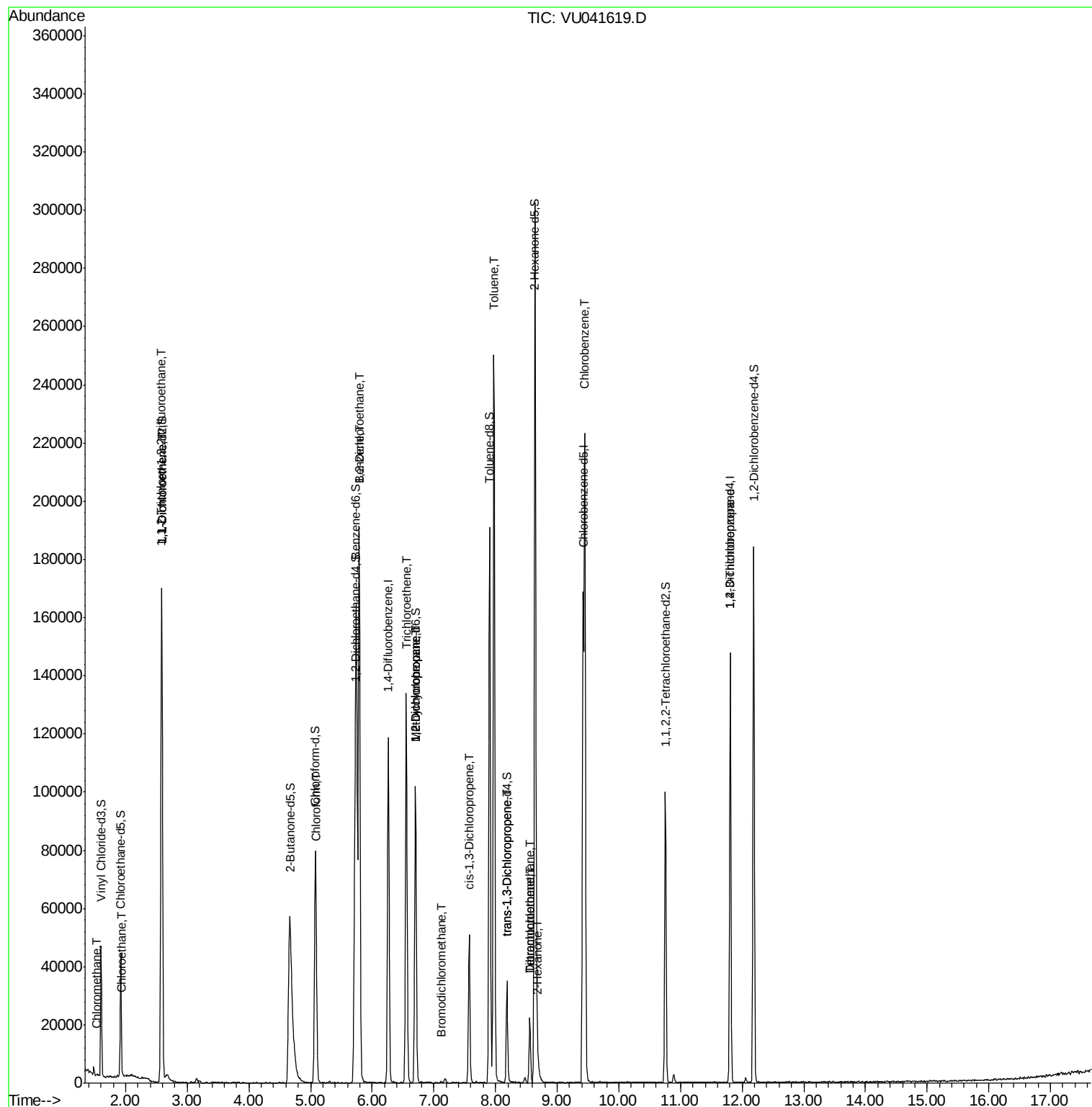
Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
51) Chlorobenzene	9.45	112	120029	6.272	ug/L	97
59) 1,2,3-Trichloropropane	11.81	75	4691	0.819	ug/L #	42

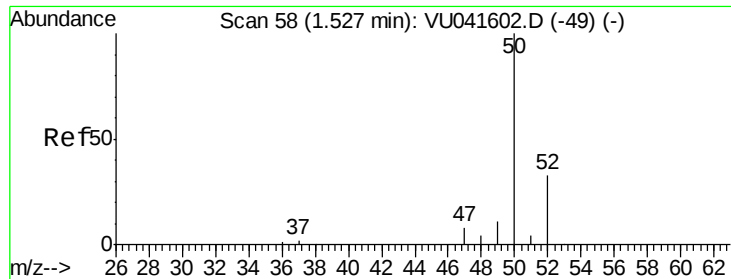
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\V0ASRV\HPCHEM1\MSVOA U\DATA\VU121420\
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Quant Title : TRACE VOA SOM01.0
QLast Update : Tue Dec 15 00:46:25 2020
Response via : Initial Calibration





#3

Chloromethane

Concen: 0.049 ug/L

RT: 1.52 min Scan# 57

Delta R.T. -0.00 min

Lab File: VU041619.D

Acq: 14 Dec 2020 18:37

Instrument :

MSVOA_U

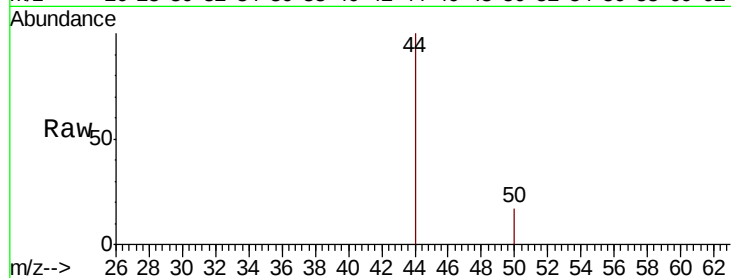
ClientSampleId :

Tot Ion: 50 Resp: 407

Ion Ratio Lower Upper

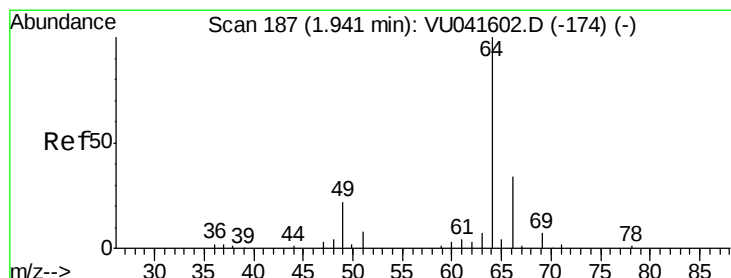
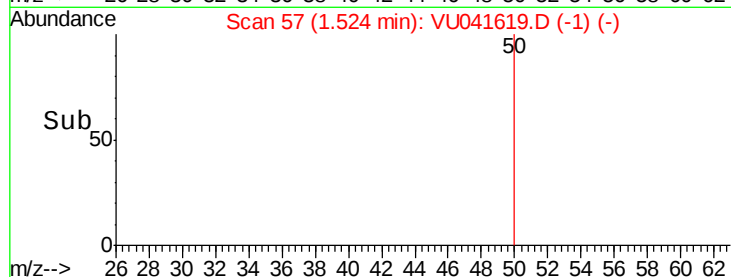
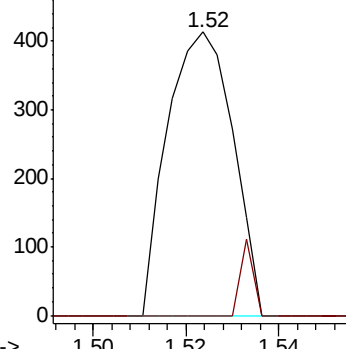
50 100

52 0.0 24.1 44.8#



Abundance Ion 50.05 (49.75 to 50.75): VU0

Ion 52.05 (51.75 to 52.75): VU0



#8

Chloroethane

Concen: 0.130 ug/L

RT: 1.94 min Scan# 188

Delta R.T. 0.00 min

Lab File: VU041619.D

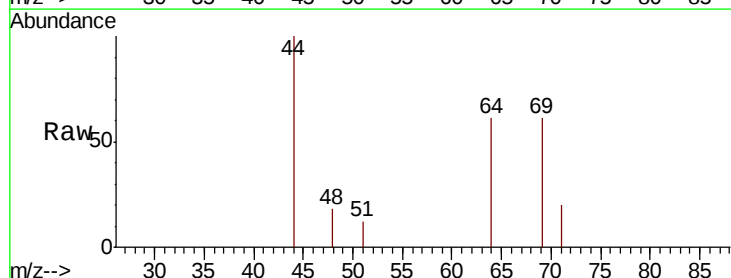
Acq: 14 Dec 2020 18:37

Tgt Ion: 64 Resp: 811

Ion Ratio Lower Upper

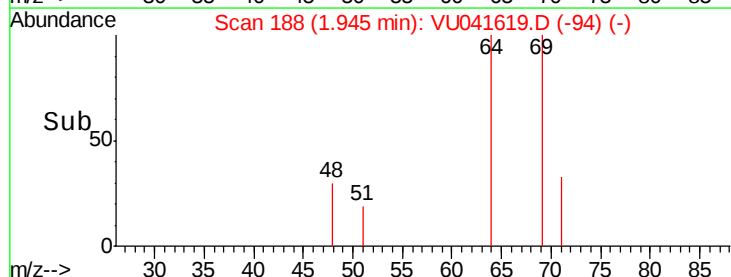
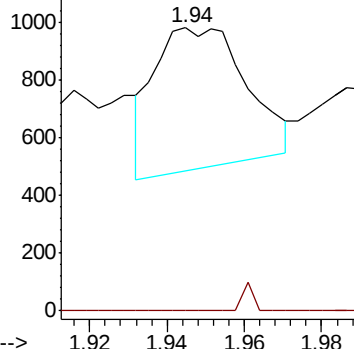
64 100

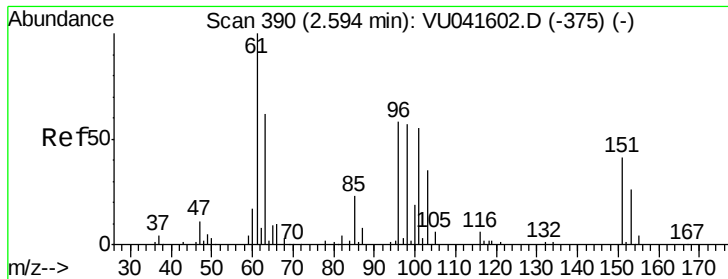
66 0.0 21.6 40.0#



Abundance Ion 64.10 (63.80 to 64.80): VU0

Ion 66.05 (65.75 to 66.75): VU0





#10

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

Concen: 0.083 ug/L

RT: 2.57 min Scan# 384

Delta R.T. -0.02 min

Lab File: VU041619.D

Acq: 14 Dec 2020 18:37

Instrument :

MSVOA_U

ClientSampleId :

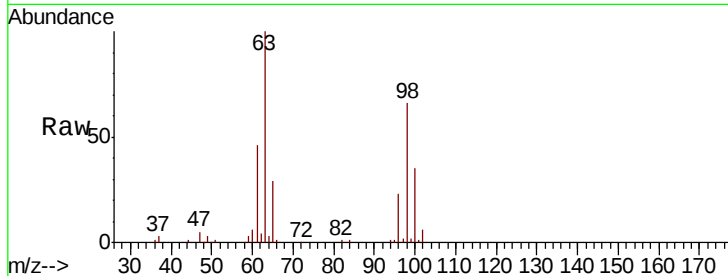
Tot Ion:101 Resp: 579

Ion Ratio Lower Upper

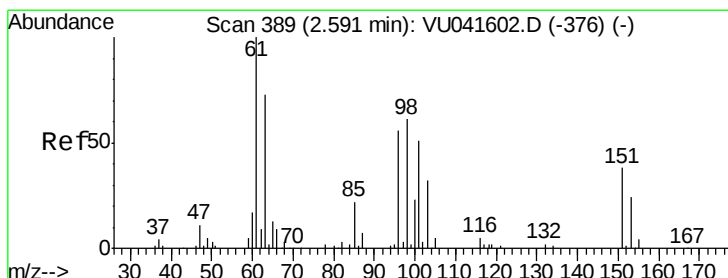
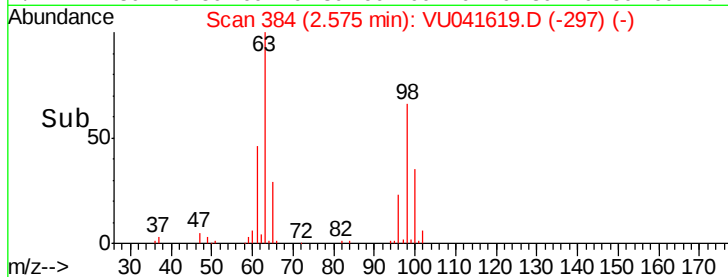
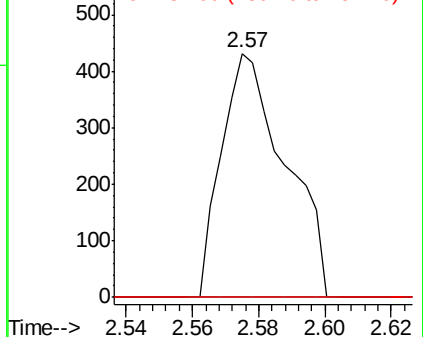
101 100

85 0.0 33.6 50.4#

151 0.0 56.2 84.4#



Abundance Ion 101.00 (100.70 to 101.70): V
Ion 85.00 (84.70 to 85.70): VU
Ion 151.00 (150.70 to 151.70): V



#12

1,1-Dichloroethene

Concen: 6.151 ug/L

RT: 2.59 min Scan# 389

Delta R.T. 0.00 min

Lab File: VU041619.D

Acq: 14 Dec 2020 18:37

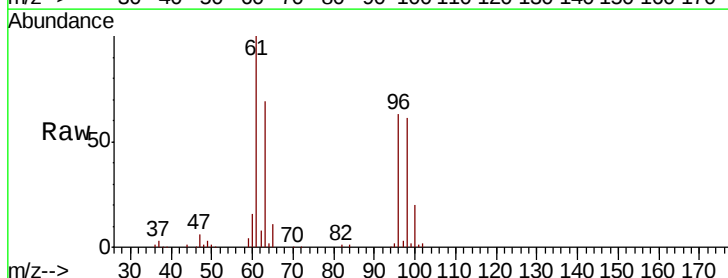
Tgt Ion: 96 Resp: 42175

Ion Ratio Lower Upper

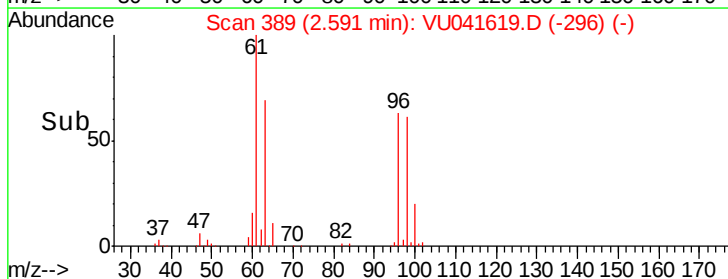
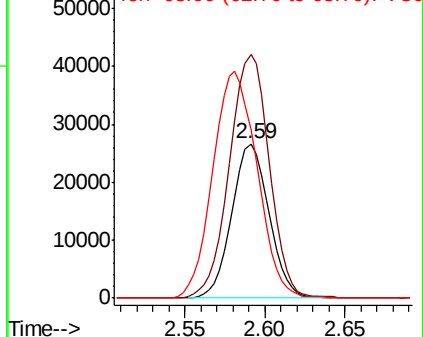
96 100

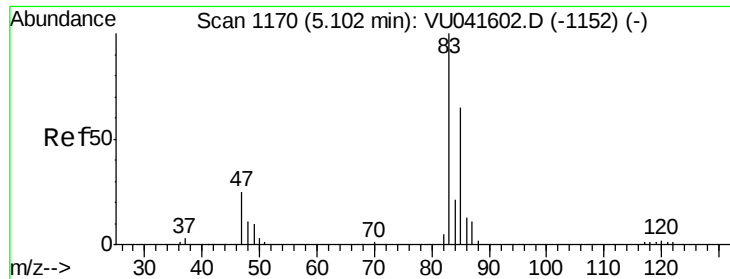
61 157.6 123.8 230.0

63 108.4 81.0 150.4



Abundance Ion 96.00 (95.70 to 96.70): VU
Ion 61.05 (60.75 to 61.75): VU
Ion 63.00 (62.70 to 63.70): VU

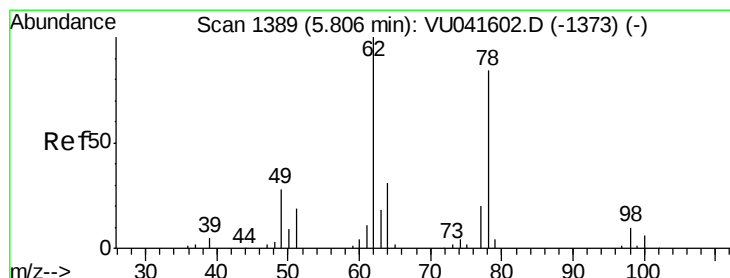
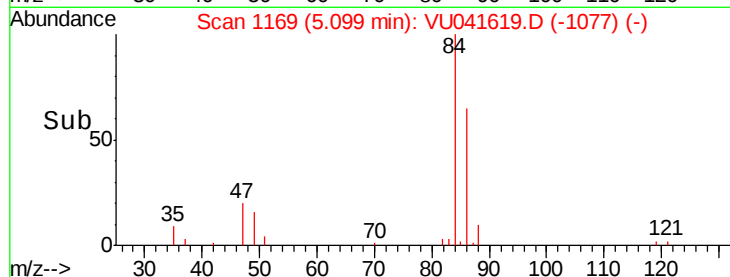
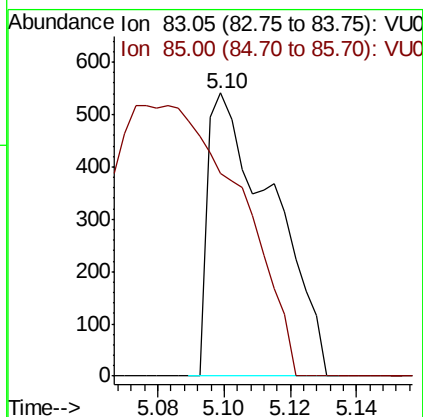
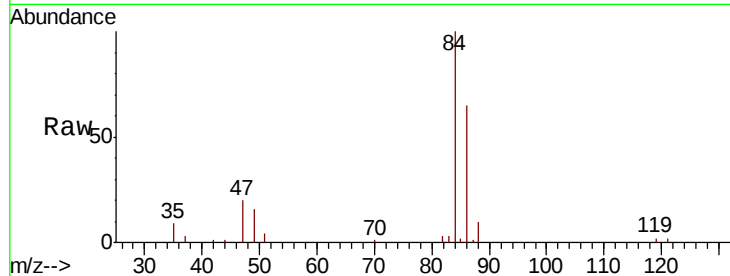




#25
Chloroform
Concen: 0.055 ug/L
RT: 5.10 min Scan# 1169
Delta R.T. -0.00 min
Lab File: VU041619.D
Acq: 14 Dec 2020 18:37

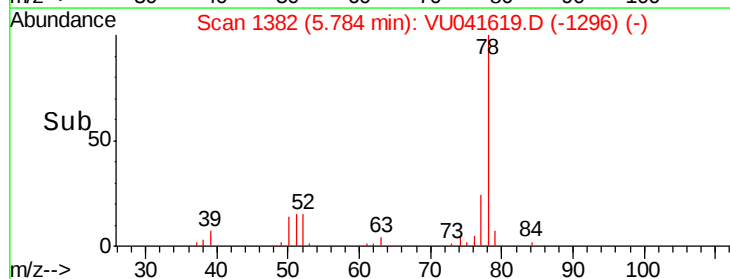
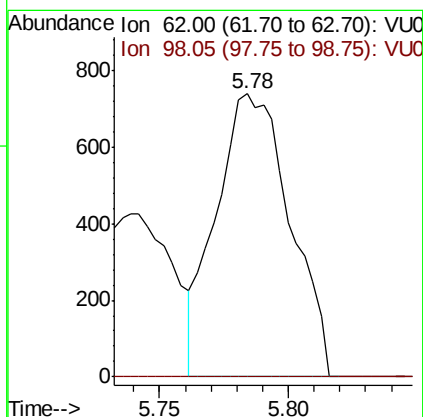
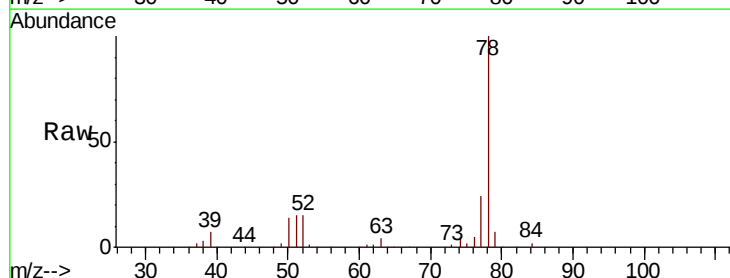
Instrument :
MSVOA_U
ClientSampleId :

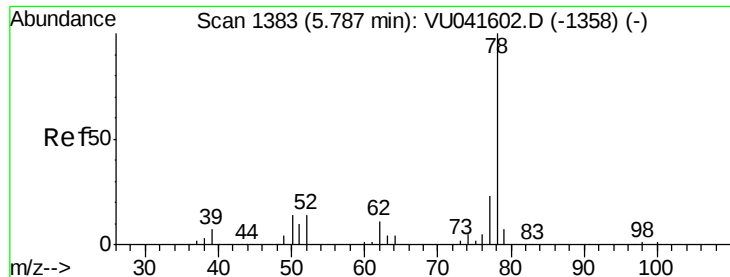
Tot Ion: 83 Resp: 735
Ion Ratio Lower Upper
83 100
85 71.7 44.2 82.0



#27
1,2-Dichloroethane
Concen: 0.163 ug/L
RT: 5.78 min Scan# 1382
Delta R.T. -0.02 min
Lab File: VU041619.D
Acq: 14 Dec 2020 18:37

Tgt Ion: 62 Resp: 1476
Ion Ratio Lower Upper
62 100
98 0.0 8.2 12.2#





#33

Benzene

Concen: 6.154 ug/L

RT: 5.79 min Scan# 1383

Delta R.T. 0.00 min

Lab File: VU041619.D

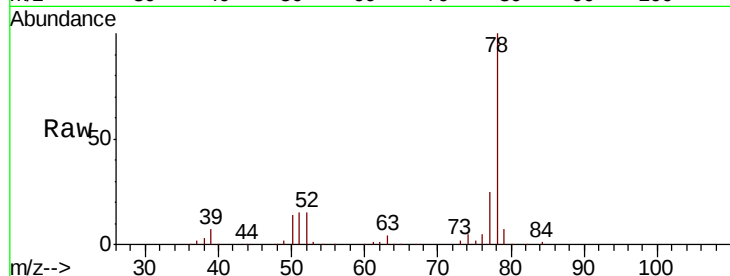
Acq: 14 Dec 2020 18:37

Instrument :

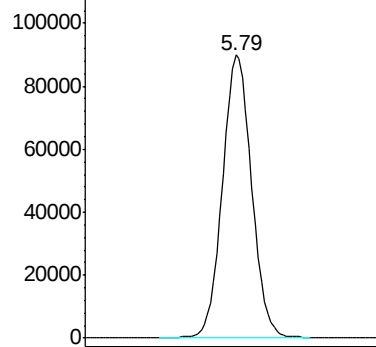
MSVOA_U

ClientSampleId :

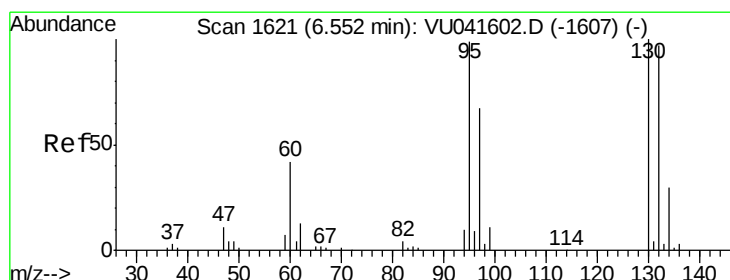
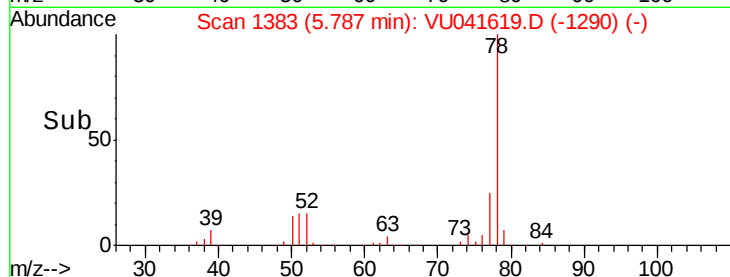
Tgt Ion: 78 Resp: 183515



Abundance Ion 78.10 (77.80 to 78.80): VU0



Time-->



#34

Trichloroethene

Concen: 6.253 ug/L

RT: 6.55 min Scan# 1621

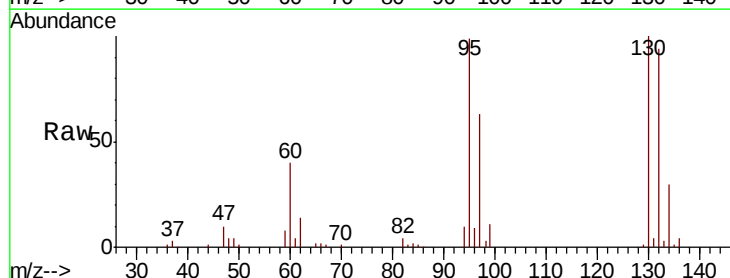
Delta R.T. 0.00 min

Lab File: VU041619.D

Acq: 14 Dec 2020 18:37

Tgt Ion: 95 Resp: 46860

Ion	Ratio	Lower	Upper
95	100		
97	64.0	43.9	81.5
132	95.5	63.1	117.3
130	101.1	67.4	125.2

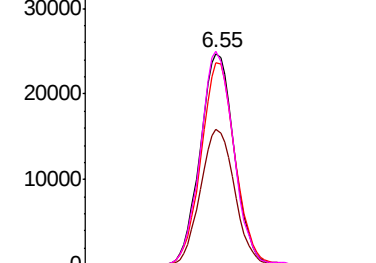


Abundance Ion 95.00 (94.70 to 95.70): VU0

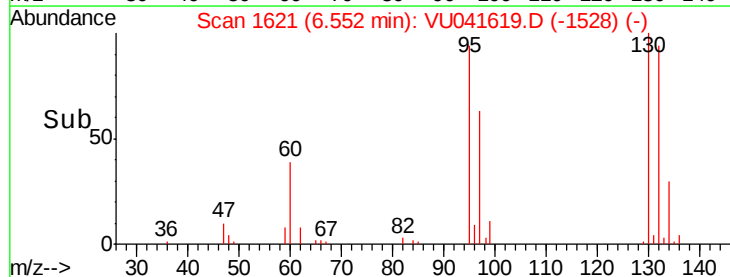
Ion 96.95 (96.65 to 97.65): VU0

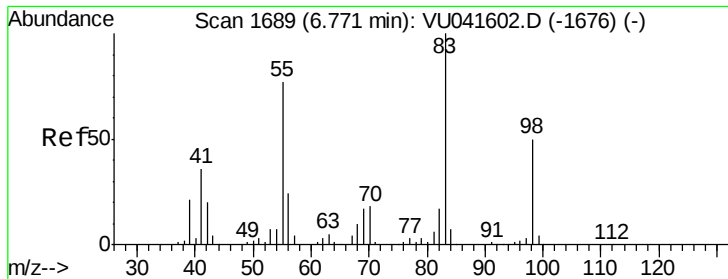
Ion 131.95 (131.65 to 132.65): V

Ion 129.95 (129.65 to 130.65): V



Time-->

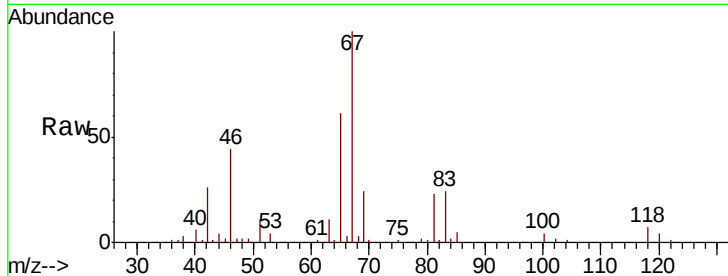




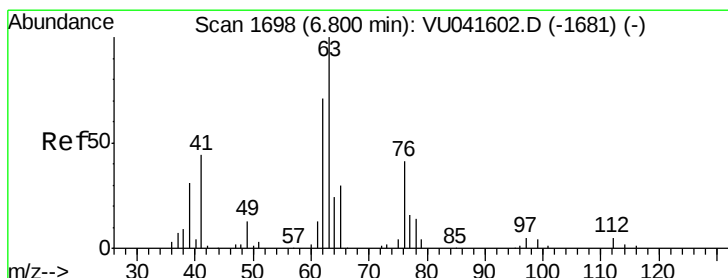
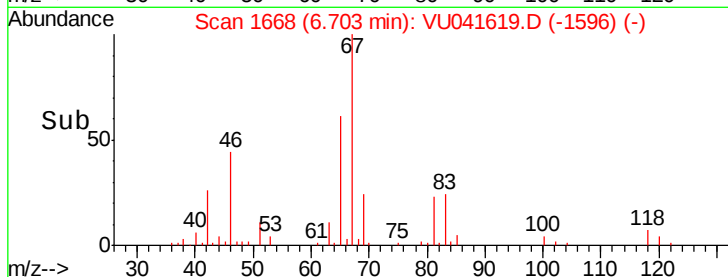
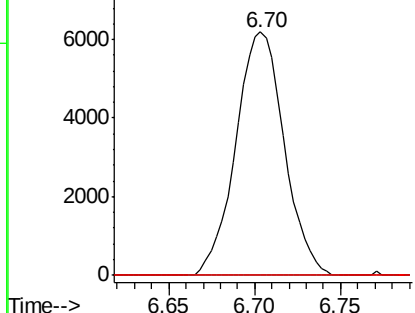
#35
Methvlcvclohexane
Concen: 0.999 ug/L
RT: 6.70 min Scan# 1668
Delta R.T. -0.07 min
Lab File: VU041619.D
Acq: 14 Dec 2020 18:37

Instrument :
MSVOA_U
ClientSampleId :

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

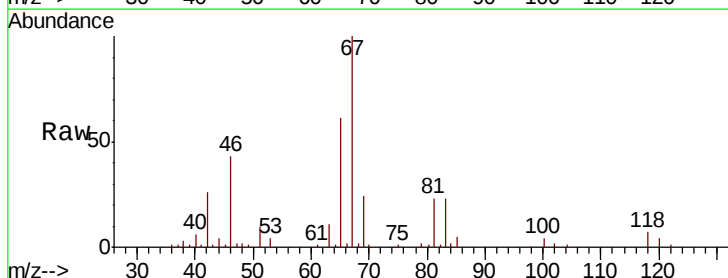


Abundance Ion 83.15 (82.85 to 83.85): VU0
Ion 55.10 (54.80 to 55.80): VU0
Ion 98.15 (97.85 to 98.85): VU0

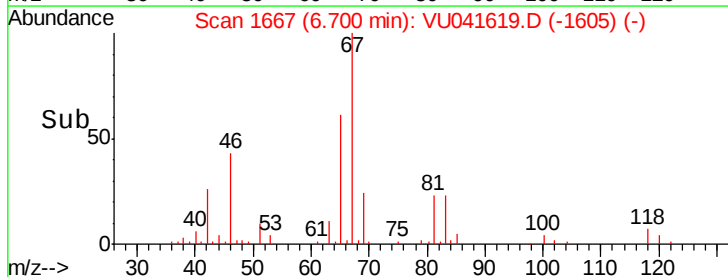
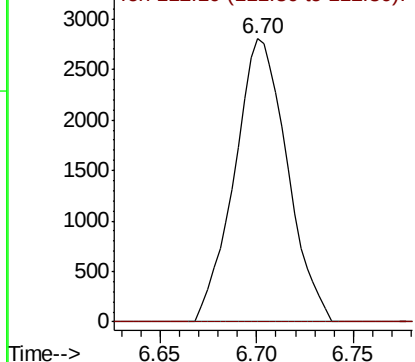


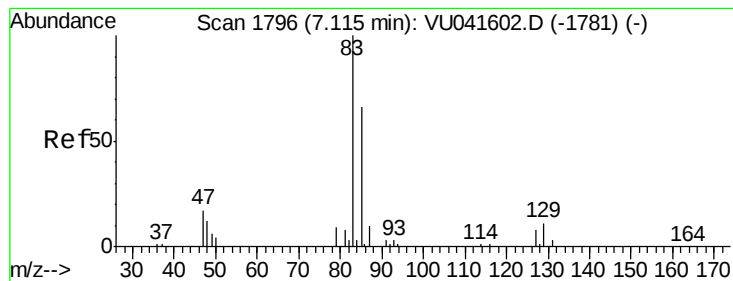
#37
1,2-Dichloropropane
Concen: 0.697 ug/L
RT: 6.70 min Scan# 1667
Delta R.T. -0.10 min
Lab File: VU041619.D
Acq: 14 Dec 2020 18:37

Tgt 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





#38

Bromodichloromethane

Concen: 0.037 ug/L

RT: 7.12 min Scan# 1796

Delta R.T. 0.00 min

Lab File: VU041619.D

Acq: 14 Dec 2020 18:37

Instrument :

MSVOA_U

ClientSampleId :

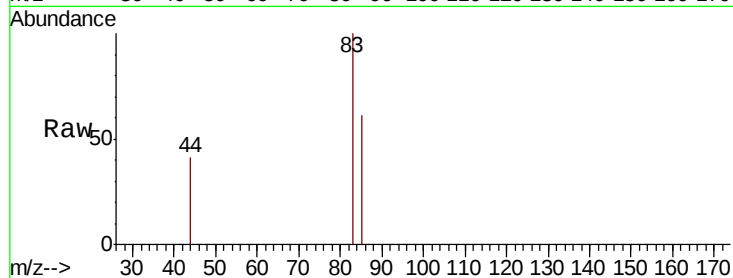
Tot Ion: 83 Resp: 347

Ion Ratio Lower Upper

83 100

85 60.6 45.5 84.5

127 0.0 7.0 10.6#

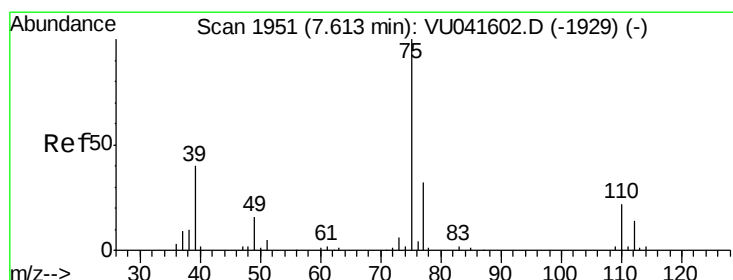
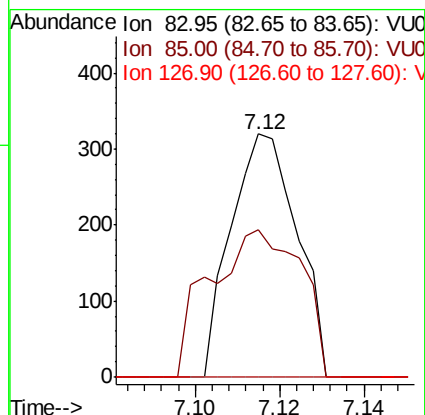
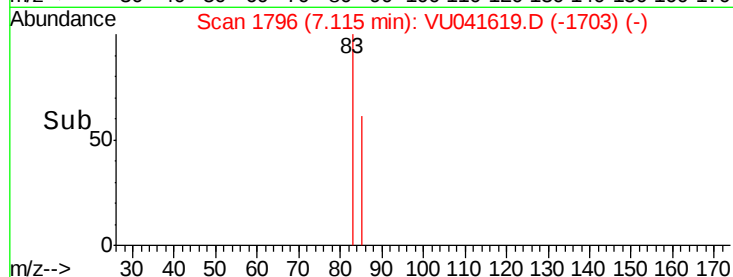


Abundance Ion 82.95 (82.65 to 83.65): VU041619.D (-1781) (-)

Ion 85.00 (84.70 to 85.70): VU041619.D (-1781) (-)

Ion 126.90 (126.60 to 127.60): VU041619.D (-1781) (-)

Time-->



#39

cis-1,3-Dichloropropene

Concen: 0.113 ug/L

RT: 7.58 min Scan# 1940

Delta R.T. -0.04 min

Lab File: VU041619.D

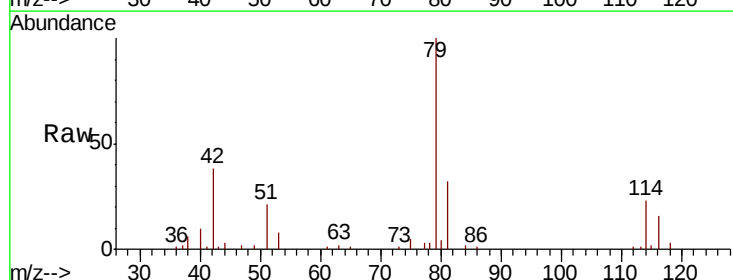
Acq: 14 Dec 2020 18:37

Tgt Ion: 75 Resp: 1278

Ion Ratio Lower Upper

75 100

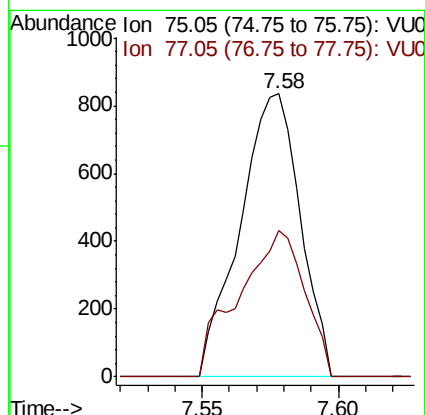
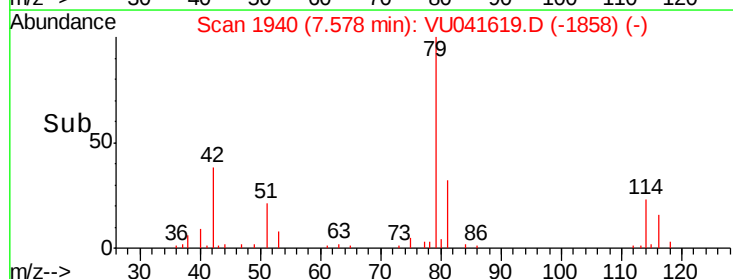
77 51.9 22.3 41.3#

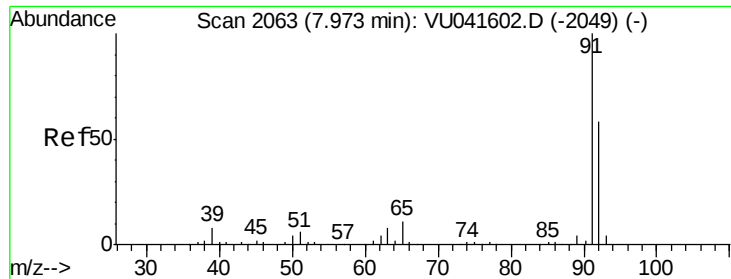


Abundance Ion 75.05 (74.75 to 75.75): VU041619.D (-1858) (-)

Ion 77.05 (76.75 to 77.75): VU041619.D (-1858) (-)

Time-->





#42

Toluene

Concen: 6.059 ug/L

RT: 7.97 min Scan# 2063

Delta R.T. 0.00 min

Lab File: VU041619.D

Acq: 14 Dec 2020 18:37

Instrument :

MSVOA_U

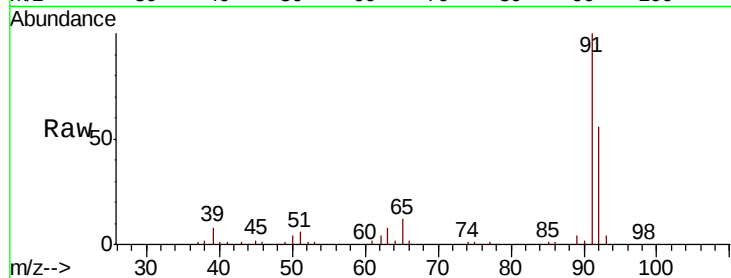
ClientSampled :

Tot Ion: 91 Resp: 186551

Ion Ratio Lower Upper

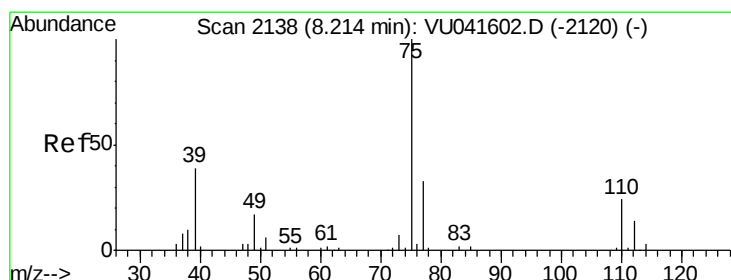
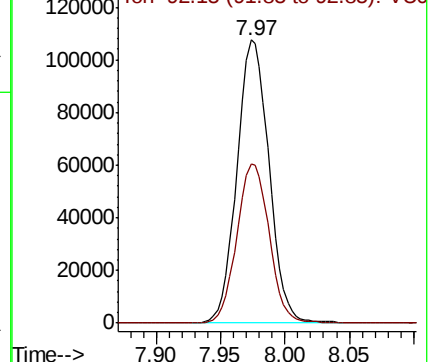
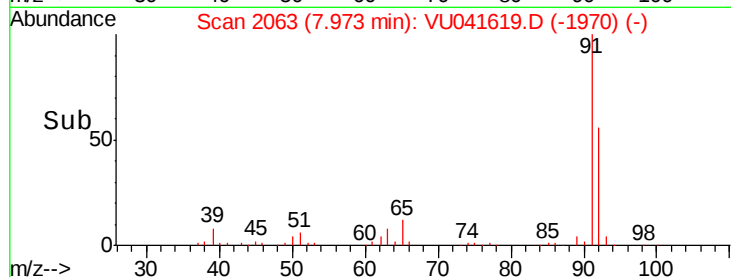
91 100

92 56.2 40.0 74.2



Abundance Ion 91.15 (90.85 to 91.85): VU041619.D (-1970) (-)

Ion 92.15 (91.85 to 92.85): VU041619.D (-1970) (-)



#44

trans-1,3-Dichloropropene

Concen: 0.086 ug/L

RT: 8.19 min Scan# 2129

Delta R.T. -0.03 min

Lab File: VU041619.D

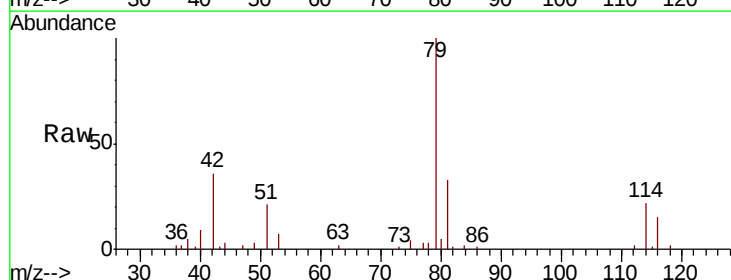
Acq: 14 Dec 2020 18:37

Tgt Ion: 75 Resp: 871

Ion Ratio Lower Upper

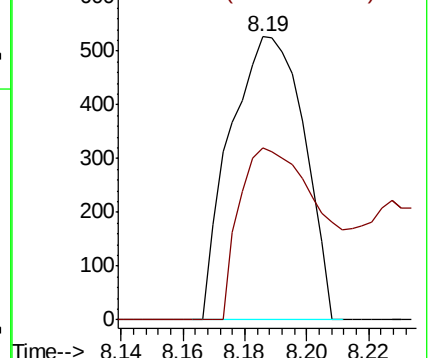
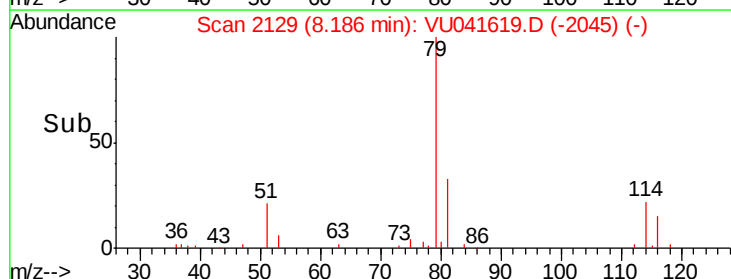
75 100

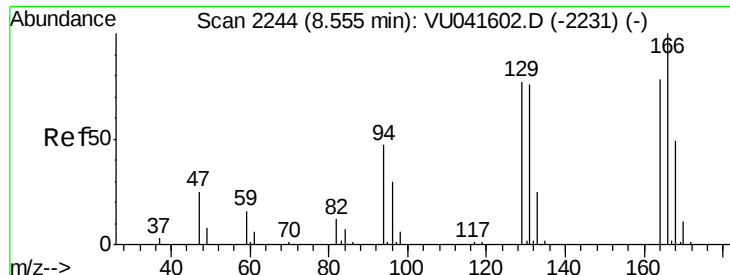
77 60.9 23.8 44.2#



Abundance Ion 75.05 (74.75 to 75.75): VU041619.D (-2045) (-)

Ion 77.05 (76.75 to 77.75): VU041619.D (-2045) (-)





#47

Tetrachloroethene

Concen: 0.937 ug/L

RT: 8.56 min Scan# 2245

Delta R.T. 0.00 min

Lab File: VU041619.D

Acq: 14 Dec 2020 18:37

Instrument :
MSVOA_U
ClientSampleId :

Tot Ion:164 Resp: 4915

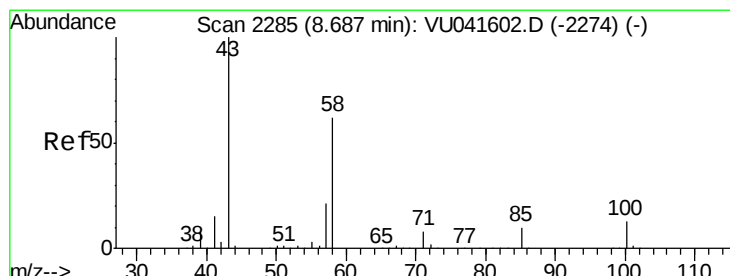
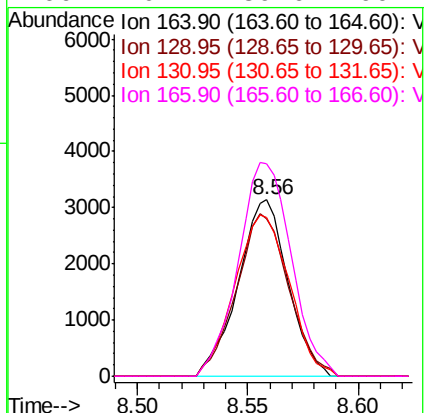
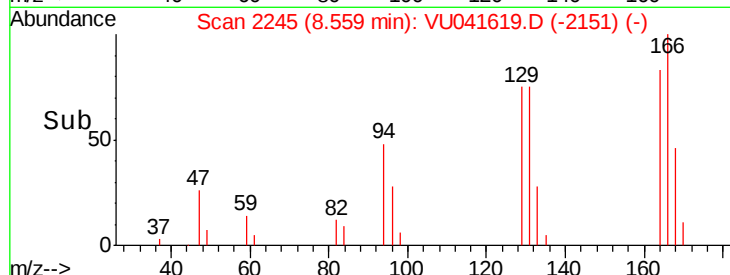
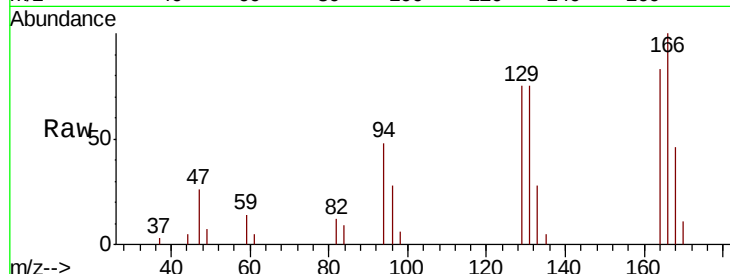
Ion Ratio Lower Upper

164 100

129 89.8 72.2 134.0

131 90.3 66.9 124.3

166 120.4 89.6 166.4



#48

2-Hexanone

Concen: 0.464 ug/L

RT: 8.69 min Scan# 2286

Delta R.T. 0.00 min

Lab File: VU041619.D

Acq: 14 Dec 2020 18:37

Tgt Ion: 43 Resp: 1831

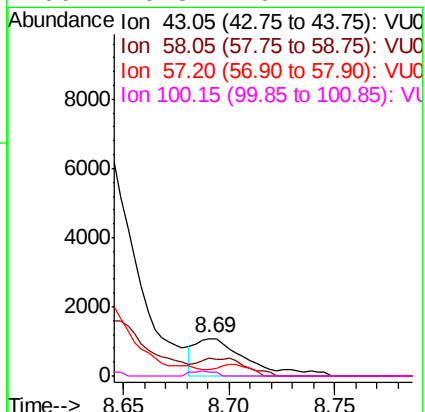
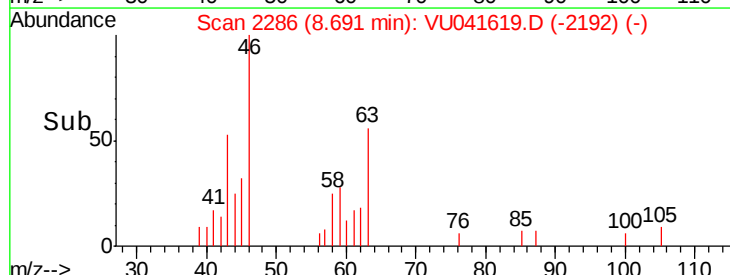
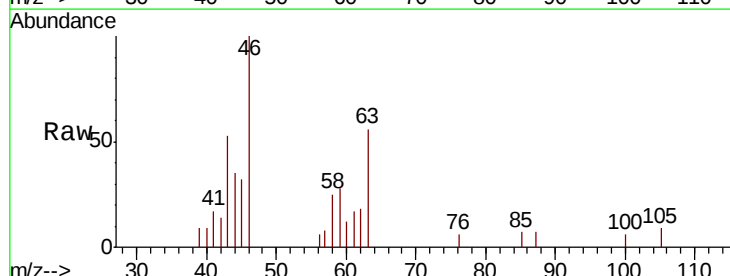
Ion Ratio Lower Upper

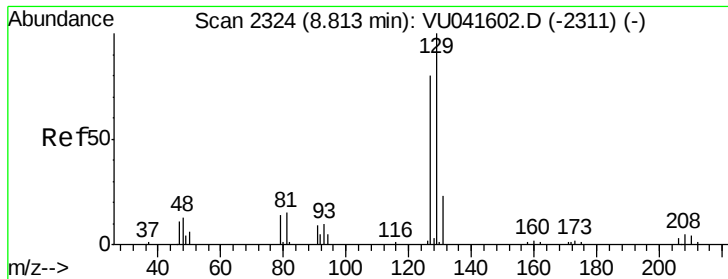
43 100

58 44.2 47.9 71.9#

57 19.4 16.5 24.7

100 6.3 9.4 14.2#





#49

Dibromochloromethane

Concen: 0.733 ug/L

RT: 8.56 min Scan# 2244

Delta R.T. -0.26 min

Lab File: VU041619.D

Acq: 14 Dec 2020 18:37

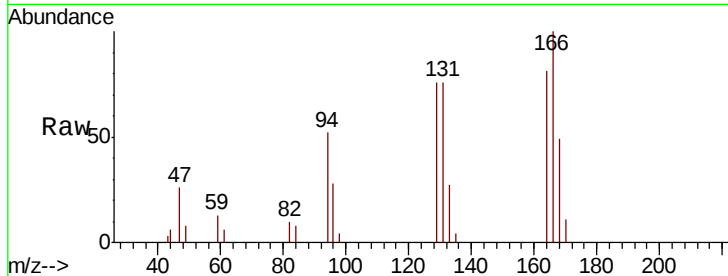
Instrument :
MSVOA_U
ClientSampleId :

Tot Ion:129 Resp: 4749

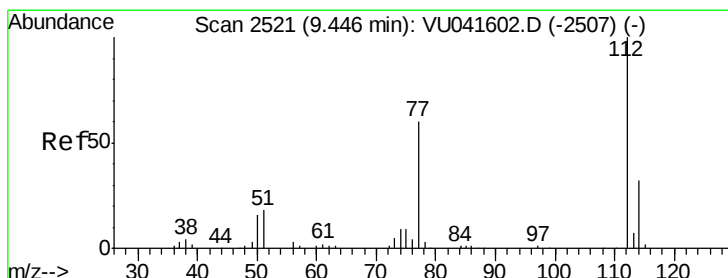
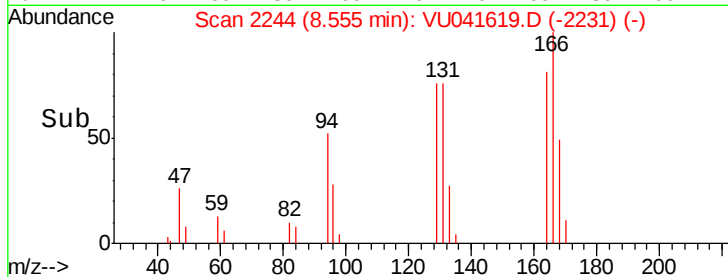
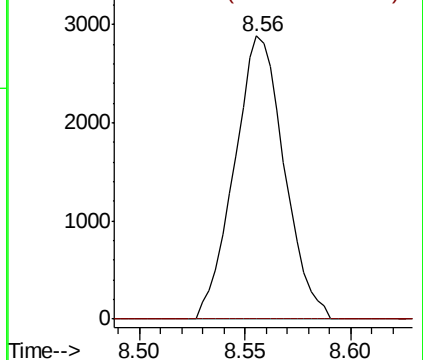
Ion Ratio Lower Upper

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



#51

Chlorobenzene

Concen: 6.272 ug/L

RT: 9.45 min Scan# 2522

Delta R.T. 0.00 min

Lab File: VU041619.D

Acq: 14 Dec 2020 18:37

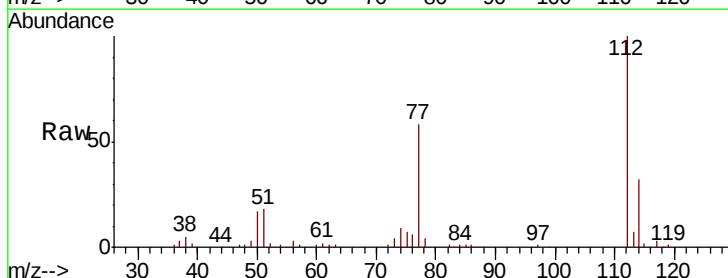
Tgt Ion:112 Resp: 120029

Ion Ratio Lower Upper

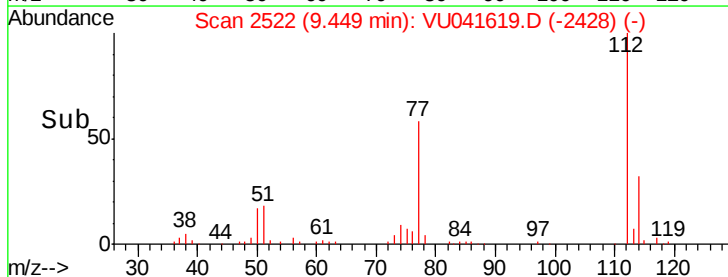
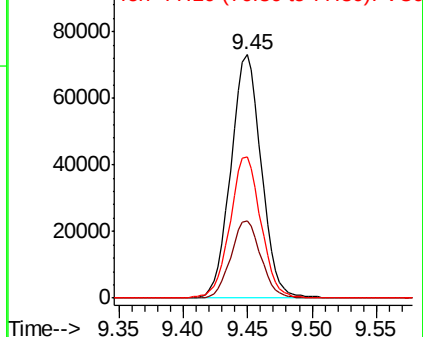
112 100

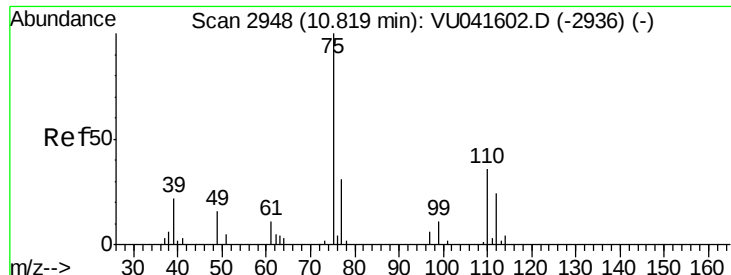
114 32.0 22.7 42.3

77 57.9 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): VU0





#59

1,2,3-Trichloropropane

Concen: 0.819 ug/L

RT: 11.81 min Scan# 3255

Delta R.T. 0.99 min

Lab File: VU041619.D

Acq: 14 Dec 2020 18:37

Instrument :

MSVOA_U

ClientSampleId :

Tot Ion: 75 Resp: 4691

Ion Ratio Lower Upper

75 100

77 0.0 26.2 39.2#

