

Data Path : Z:\VOASRV\HPCHEM1\MSVOA U\DATA\U121420\
 Data File : VU041620.D
 Acq On : 14 Dec 2020 19:01
 Operator : SY/MD
 Sample : L5027-18MSD
 Misc : 25.0mL/MSVOA U/WATER
 ALS Vial : 21 Sample Multiplier: 1

Instrument :
 MSVOA_U
 ClientSampleId :

Quant Time: Dec 15 00:50:10 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	120372	5.00	ug/L	0.00
28) Chlorobenzene-d5	9.42	117	118197	5.00	ug/L	0.00
60) 1,4-Dichlorobenzene-d4	11.81	152	52930	5.00	ug/L	0.00

System Monitoring Compounds

4) Vinyl Chloride-d3	1.60	65	29937	3.18	ug/L	0.00
Spiked Amount	5.000	Range	40 - 130	Recovery	=	63.60%
7) Chloroethane-d5	1.92	69	30744	4.22	ug/L	0.00
Spiked Amount	5.000	Range	65 - 130	Recovery	=	84.40%
11) 1,1-Dichloroethene-d2	2.58	63	75143	4.34	ug/L	0.00
Spiked Amount	5.000	Range	60 - 125	Recovery	=	86.80%
20) 2-Butanone-d5	4.66	46	150888	55.82	ug/L	0.02
Spiked Amount	50.000	Range	40 - 130	Recovery	=	111.64%
24) Chloroform-d	5.08	84	80730	5.01	ug/L	0.00
Spiked Amount	5.000	Range	70 - 125	Recovery	=	100.20%
26) 1,2-Dichloroethane-d4	5.72	65	46934	5.13	ug/L	0.00
Spiked Amount	5.000	Range	70 - 130	Recovery	=	102.60%
32) Benzene-d6	5.74	84	155520	4.60	ug/L	0.00
Spiked Amount	5.000	Range	70 - 125	Recovery	=	92.00%
36) 1,2-Dichloropropane-d6	6.70	67	51450	4.85	ug/L	0.00
Spiked Amount	5.000	Range	60 - 140	Recovery	=	97.00%
41) Toluene-d8	7.90	98	138556	4.54	ug/L	0.00
Spiked Amount	5.000	Range	70 - 130	Recovery	=	90.80%
43) trans-1,3-Dichloropropene-	8.19	79	21068	4.42	ug/L	0.00
Spiked Amount	5.000	Range	55 - 130	Recovery	=	88.40%
46) 2-Hexanone-d5	8.64	63	123271	47.26	ug/L	0.00
Spiked Amount	50.000	Range	45 - 130	Recovery	=	94.52%
57) 1,1,2,2-Tetrachloroethane-	10.75	84	49379	5.12	ug/L	0.00
Spiked Amount	5.000	Range	65 - 120	Recovery	=	102.40%
64) 1,2-Dichlorobenzene-d4	12.19	152	51370	5.46	ug/L	0.00
Spiked Amount	5.000	Range	80 - 120	Recovery	=	109.20%

Target Compounds

					Ovalue
3) Chloromethane	1.53	50	484	0.049	ug/L 92
8) Chloroethane	1.95	64	411	0.055	ug/L # 44
10) 1,1,2-Trichloro-1,2,2-trif	2.58	101	569	0.069	ug/L # 22
12) 1,1-Dichloroethene	2.59	96	43183	5.288	ug/L 96
13) Acetone	2.66	43	1267	0.737	ug/L 66
21) 2-Butanone	4.74	43	3506	1.252	ug/L 90
27) 1,2-Dichloroethane	5.79	62	1795	0.167	ug/L # 73
33) Benzene	5.79	78	190348	5.035	ug/L 100
34) Trichloroethene	6.55	95	46164	4.860	ug/L 96
35) Methylcyclohexane	6.70	83	12021	0.783	ug/L # 25
37) 1,2-Dichloropropane	6.70	63	5396	0.558	ug/L # 88
39) cis-1,3-Dichloropropene	7.57	75	1111	0.078	ug/L # 68
42) Toluene	7.98	91	197580	5.063	ug/L 100
44) trans-1,3-Dichloropropene	8.19	75	960	0.075	ug/L # 76
47) Tetrachloroethene	8.56	164	5039	0.758	ug/L 94
48) 2-Hexanone	8.64	43	12869	2.570	ug/L # 64
49) Dibromochloromethane	8.56	129	4696	0.572	ug/L # 10

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ClientSampleId :

Quant Time: Dec 15 00:50:10 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

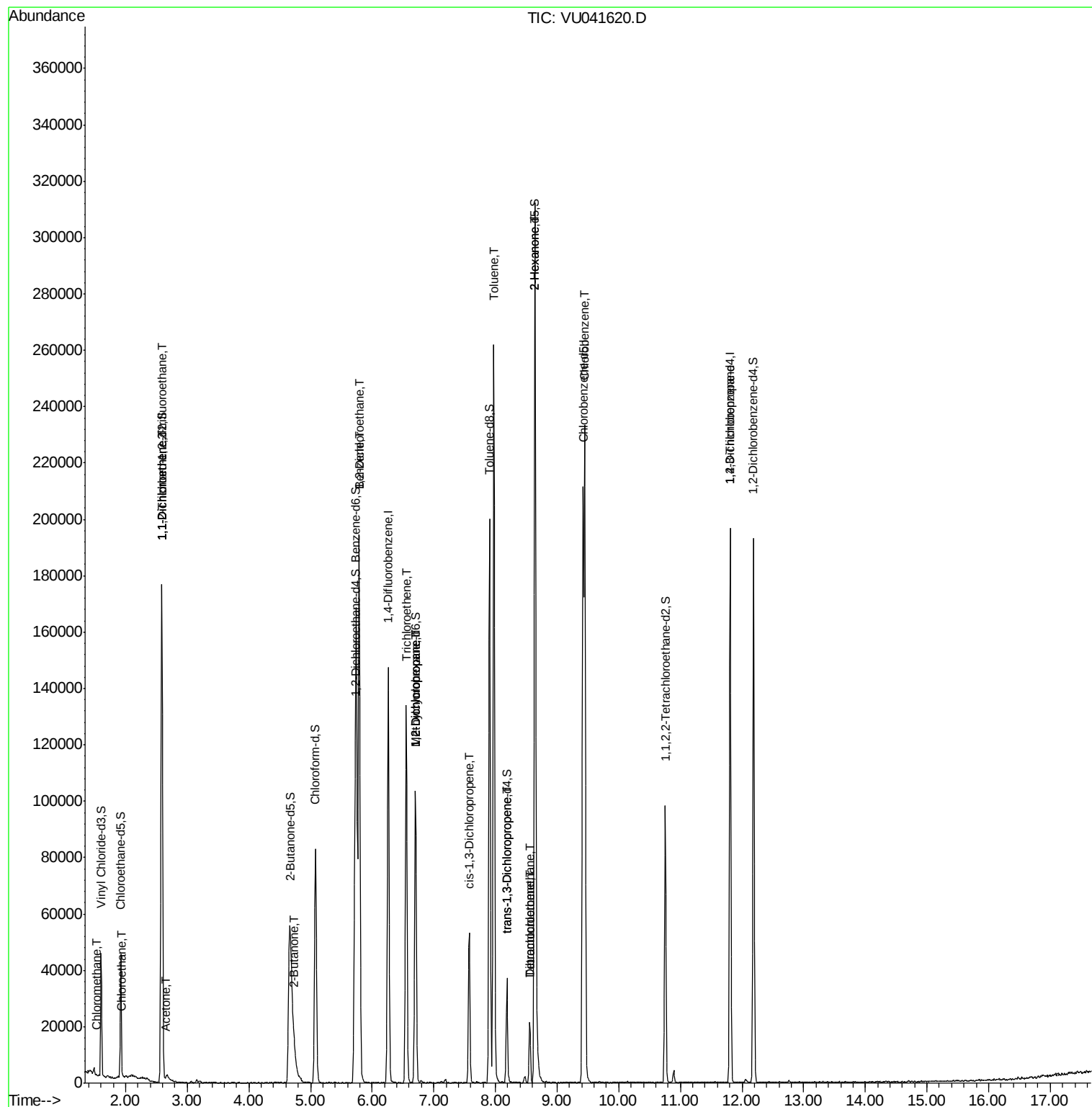
Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
51) Chlorobenzene	9.45	112	123894	5.107	ug/L	97
59) 1,2,3-Trichloropropane	11.81	75	6043	0.832	ug/L #	42

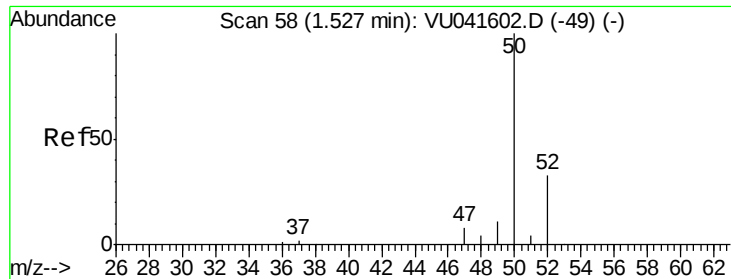
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\V0ASRV\HPCHEM1\MSVOA U\DATA\VU121420\
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QLast Update : Tue Dec 15 00:46:25 2020
Response via : Initial Calibration





#3

Chloromethane

Concen: 0.049 ug/L

RT: 1.53 min Scan# 58

Delta R.T. -0.00 min

Lab File: VU041620.D

Acq: 14 Dec 2020 19:01

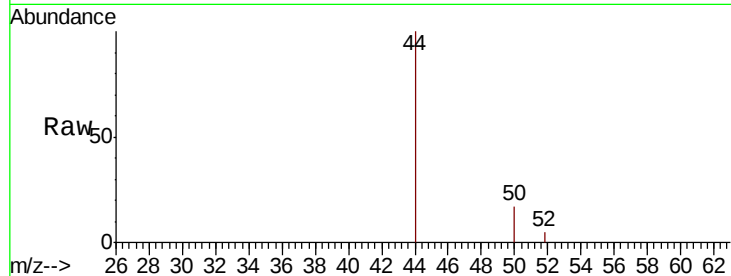
Instrument :
MSVOA_U
ClientSampled :

Tot Ion: 50 Resp: 484

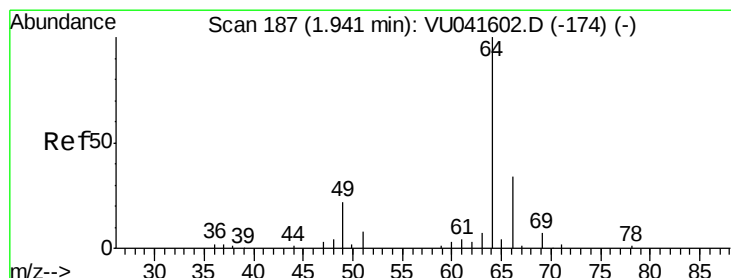
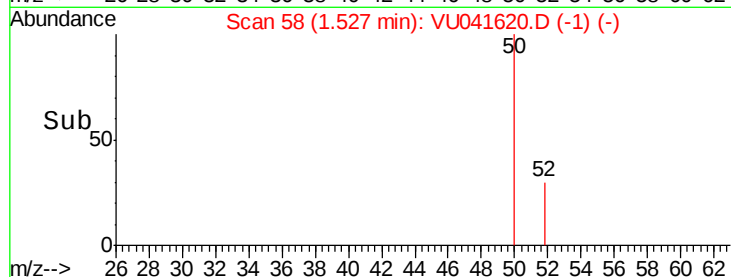
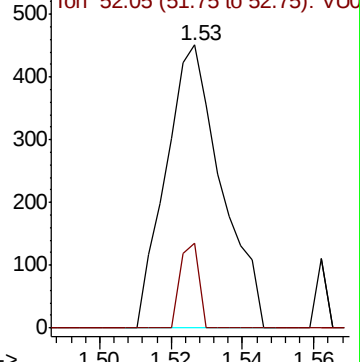
Ion Ratio Lower Upper

50 100

52 29.7 24.1 44.8



Abundance Ion 50.05 (49.75 to 50.75): VU041620.D (-49) (-)



#8

Chloroethane

Concen: 0.055 ug/L

RT: 1.95 min Scan# 189

Delta R.T. 0.01 min

Lab File: VU041620.D

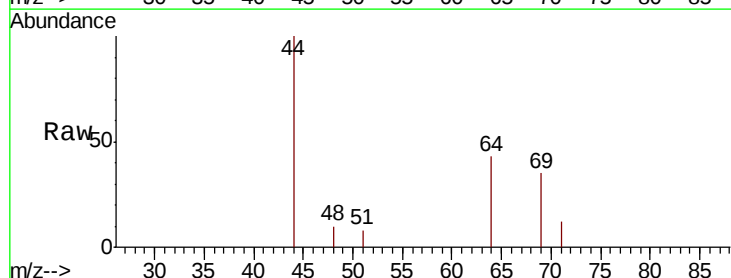
Acq: 14 Dec 2020 19:01

Tgt Ion: 64 Resp: 411

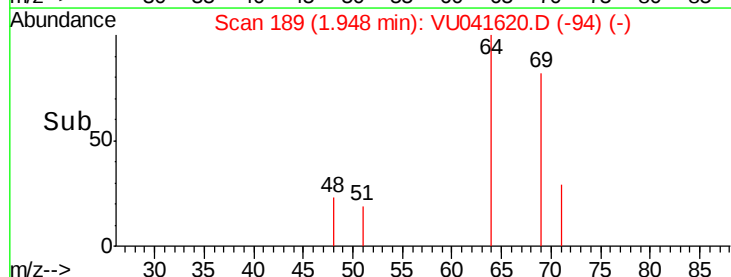
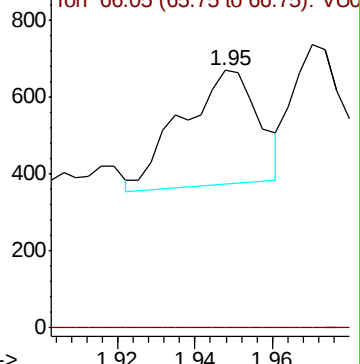
Ion Ratio Lower Upper

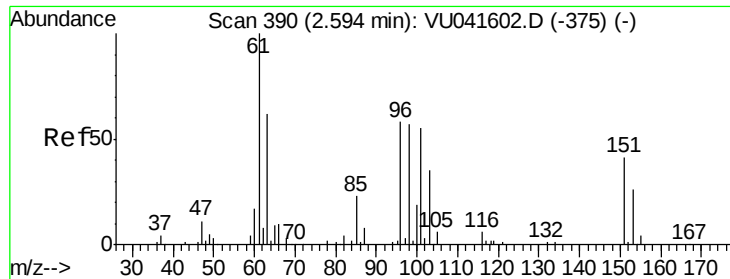
64 100

66 0.0 21.6 40.0#



Abundance Ion 64.10 (63.80 to 64.80): VU041620.D (-174) (-)





#10

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

Concen: 0.069 ug/L

RT: 2.58 min Scan# 385

Delta R.T. -0.02 min

Lab File: VU041620.D

Acq: 14 Dec 2020 19:01

Instrument :

MSVOA_U

ClientSampleId :

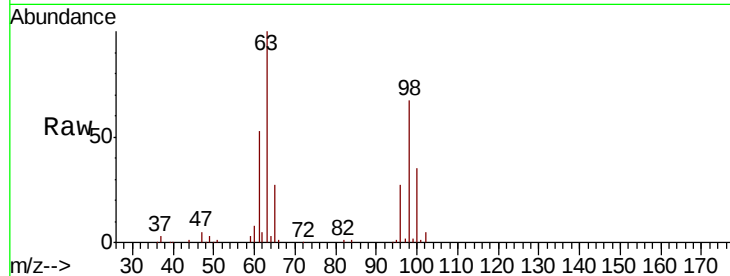
Tot Ion:101 Resp: 569

Ion Ratio Lower Upper

101 100

85 0.0 33.6 50.4#

151 0.0 56.2 84.4#

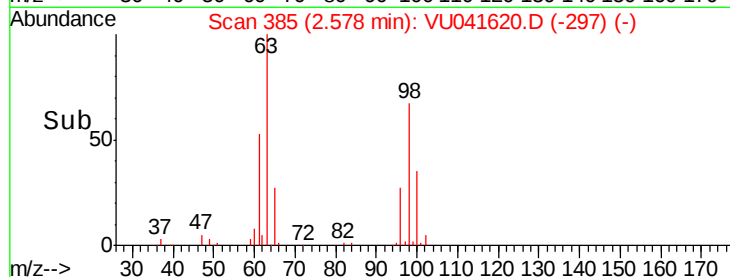


Abundance Ion 101.00 (100.70 to 101.70): V

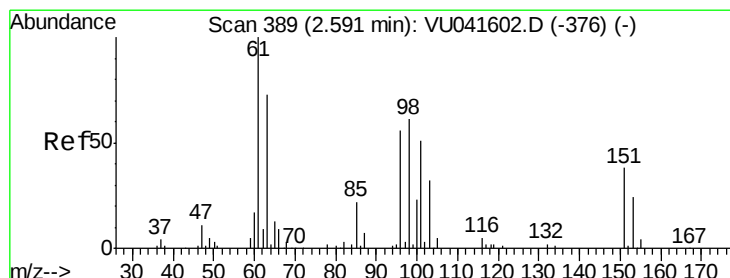
Ion 85.00 (84.70 to 85.70): VU0

Ion 151.00 (150.70 to 151.70): V

2.58



Time--> 2.54 2.56 2.58 2.60 2.62



#12

1,1-Dichloroethene

Concen: 5.288 ug/L

RT: 2.59 min Scan# 389

Delta R.T. -0.00 min

Lab File: VU041620.D

Acq: 14 Dec 2020 19:01

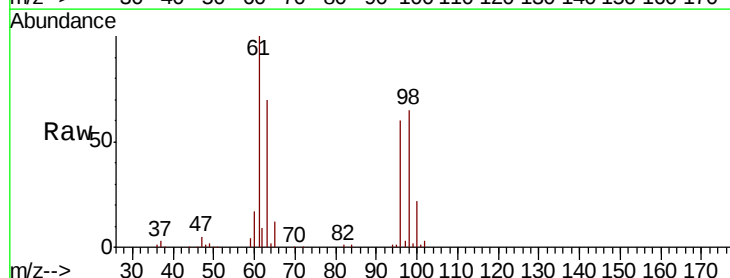
Tgt Ion: 96 Resp: 43183

Ion Ratio Lower Upper

96 100

61 167.2 123.8 230.0

63 116.4 81.0 150.4

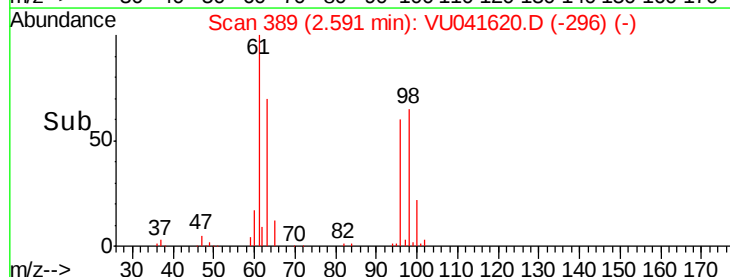


Abundance Ion 96.00 (95.70 to 96.70): VU0

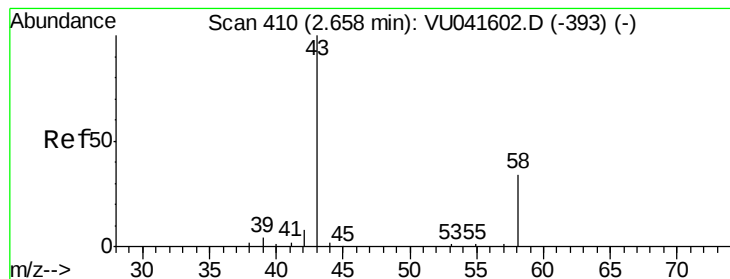
Ion 61.05 (60.75 to 61.75): VU0

Ion 63.00 (62.70 to 63.70): VU0

2.59



Time--> 2.55 2.60 2.65



#13

Acetone

Concen: 0.737 ug/L

RT: 2.66 min Scan# 409

Delta R.T. -0.00 min

Lab File: VU041620.D

Acq: 14 Dec 2020 19:01

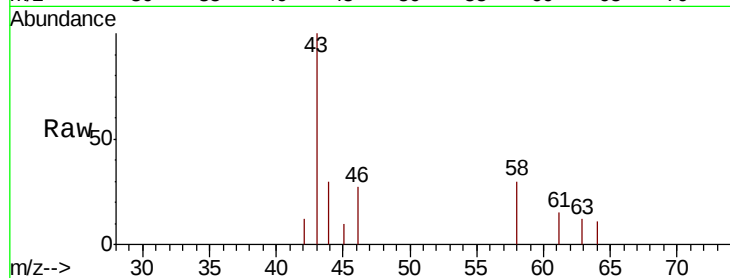
Instrument :
MSVOA_U
ClientSampled :

Tot Ion: 43 Resp: 1267

Ion Ratio Lower Upper

43 100

58 56.6 0.0 73.2



Abundance Ion 43.05 (42.75 to 43.75): VU041620.D (-393) (-)

Ion 58.05 (57.75 to 58.75): VU041620.D (-393) (-)

1500

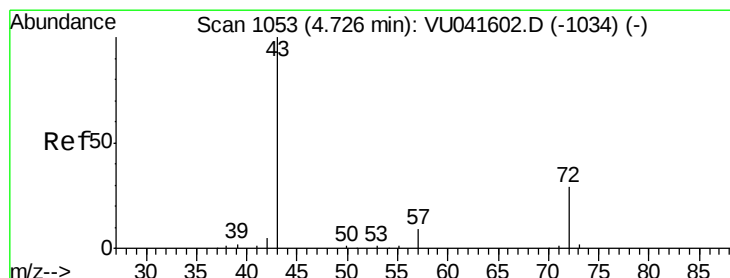
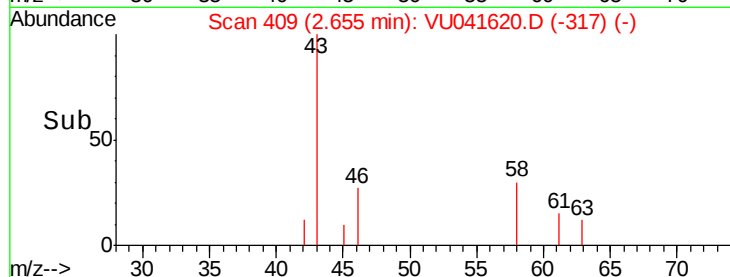
1000

500

0

2.62 2.64 2.66

Time-->



#21

2-Butanone

Concen: 1.252 ug/L

RT: 4.74 min Scan# 1057

Delta R.T. 0.01 min

Lab File: VU041620.D

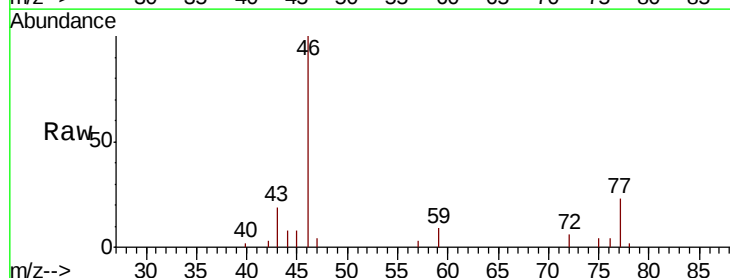
Acq: 14 Dec 2020 19:01

Tgt Ion: 43 Resp: 3506

Ion Ratio Lower Upper

43 100

72 24.1 14.6 44.0



Abundance Ion 43.05 (42.75 to 43.75): VU041620.D (-1034) (-)

Ion 72.10 (71.80 to 72.80): VU041620.D (-1034) (-)

1500

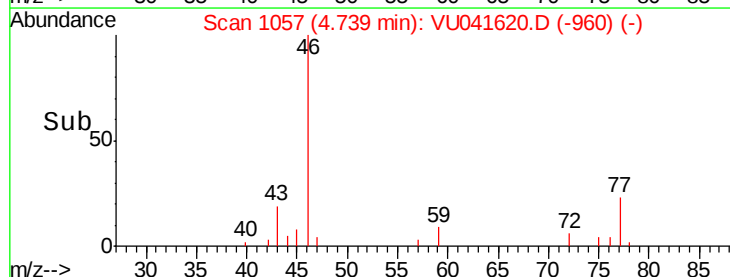
1000

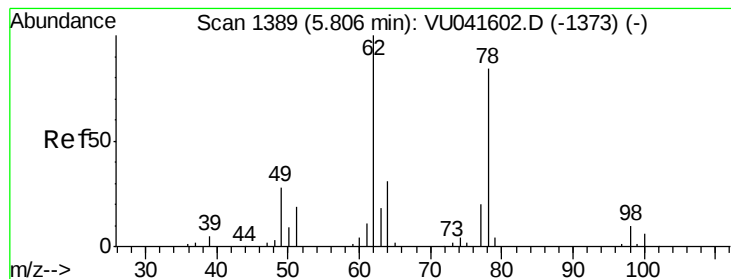
500

0

4.70 4.75 4.80

Time-->





#27

1,2-Dichloroethane

Concen: 0.167 ug/L

RT: 5.79 min Scan# 1383

Delta R.T. -0.02 min

Lab File: VU041620.D

Acq: 14 Dec 2020 19:01

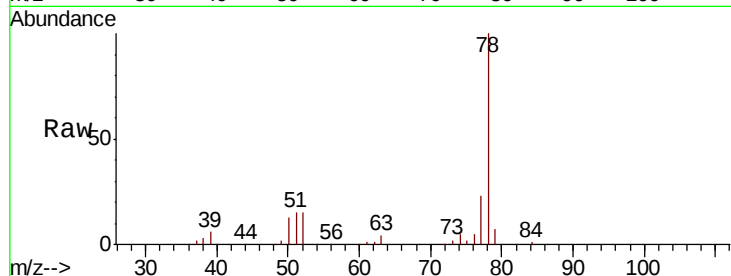
Instrument :
MSVOA_U
ClientSampled :

Tot Ion: 62 Resp: 1795

Ion Ratio Lower Upper

62 100

98 0.0 8.2 12.2#



Abundance Ion 62.00 (61.70 to 62.70): VU041602.D (-1373) (-)

Ion 98.05 (97.75 to 98.75): VU041602.D (-1373) (-)

5.79

1000

800

600

400

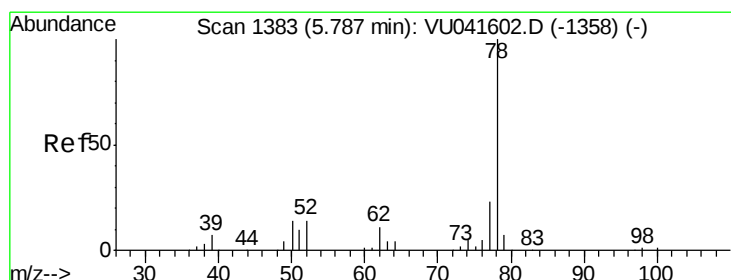
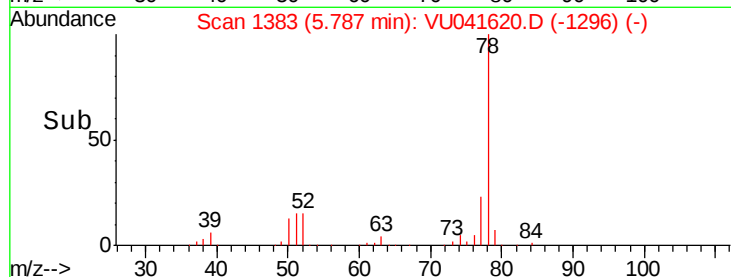
200

0

5.75

5.80

Time-->



#33

Benzene

Concen: 5.035 ug/L

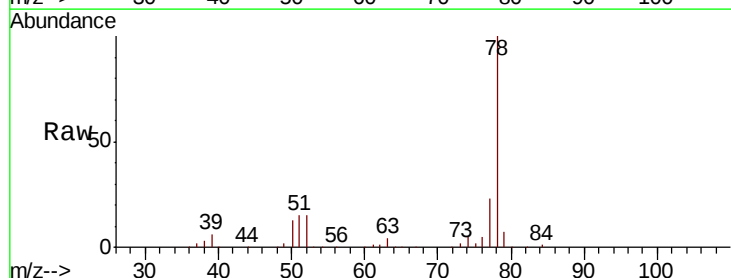
RT: 5.79 min Scan# 1383

Delta R.T. -0.00 min

Lab File: VU041620.D

Acq: 14 Dec 2020 19:01

Tgt Ion: 78 Resp: 190348



Abundance Ion 78.10 (77.80 to 78.80): VU041620.D (-1358) (-)

100000

80000

60000

40000

20000

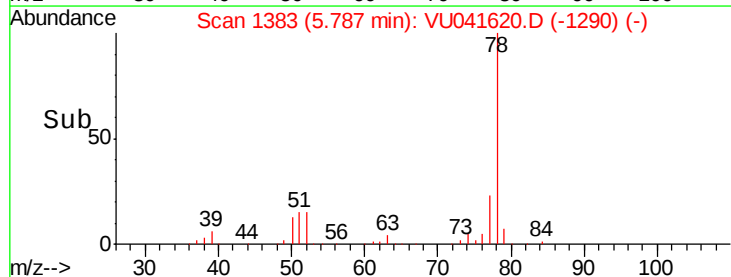
0

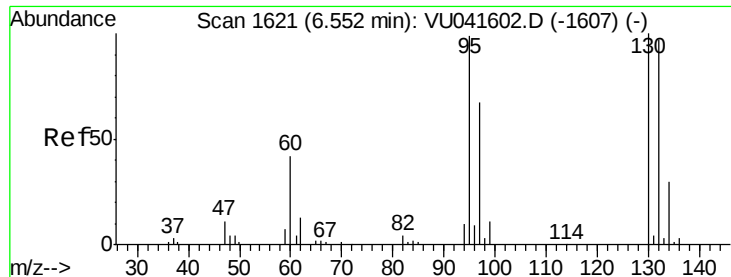
5.70

5.80

5.90

Time-->

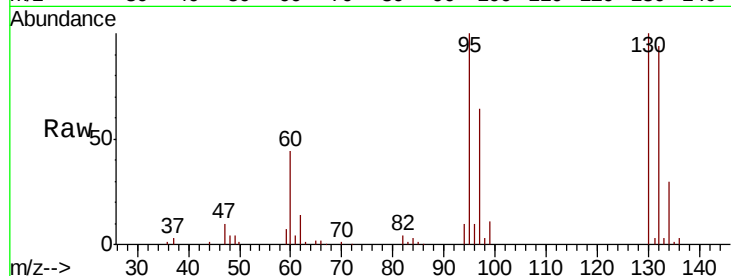




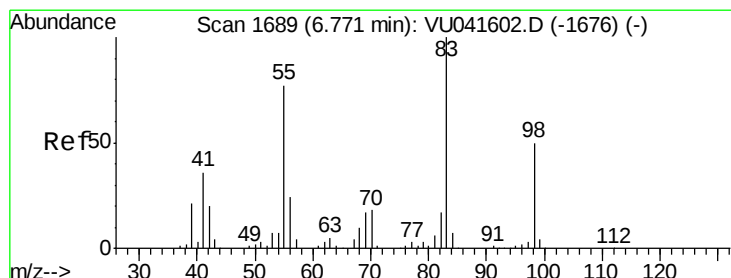
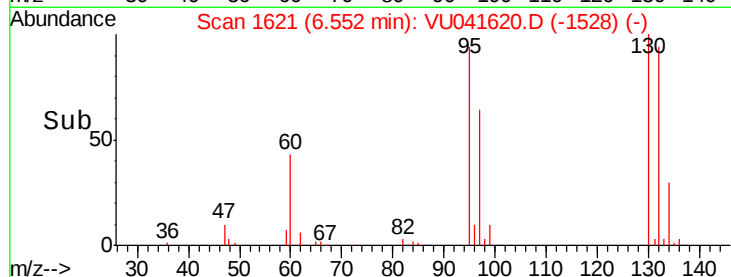
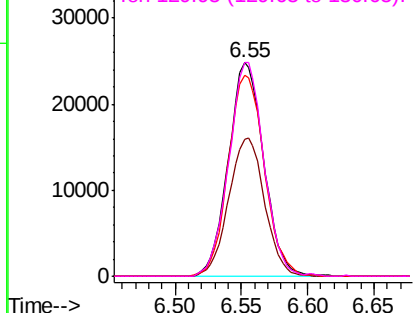
#34
 Trichloroethene
 Concen: 4.860 ug/L
 RT: 6.55 min Scan# 1621
 Delta R.T. -0.00 min
 Lab File: VU041620.D
 Acq: 14 Dec 2020 19:01

Instrument :
 MSVOA_U
 ClientSampleId :

Tot Ion: 95 Resp: 46164
 Ion Ratio Lower Upper
 95 100
 97 64.3 43.9 81.5
 132 94.4 63.1 117.3
 130 100.1 67.4 125.2

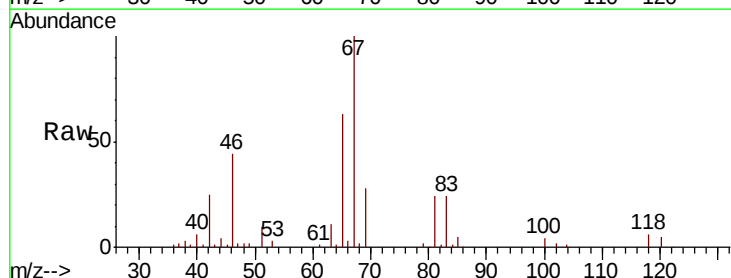


Abundance Ion 95.00 (94.70 to 95.70): VU0
 Ion 96.95 (96.65 to 97.65): VU0
 Ion 131.95 (131.65 to 132.65): V
 Ion 129.95 (129.65 to 130.65): V

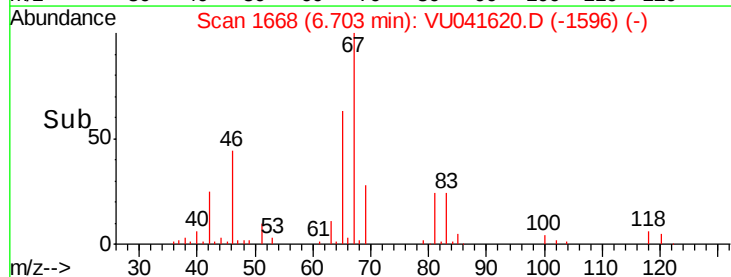
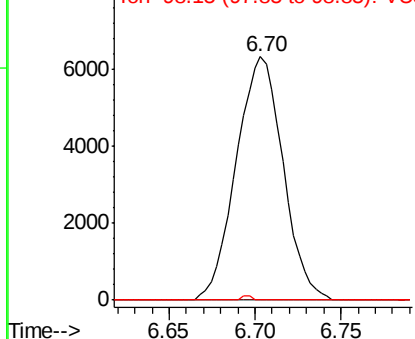


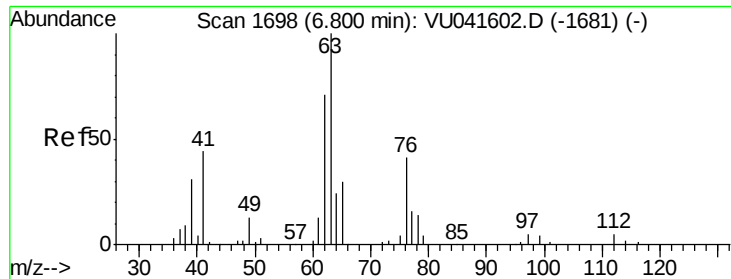
#35
 Methylcyclohexane
 Concen: 0.783 ug/L
 RT: 6.70 min Scan# 1668
 Delta R.T. -0.07 min
 Lab File: VU041620.D
 Acq: 14 Dec 2020 19:01

Tgt Ion: 83 Resp: 12021
 Ion Ratio Lower Upper
 83 100
 55 0.0 61.2 91.8#
 98 11.5 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

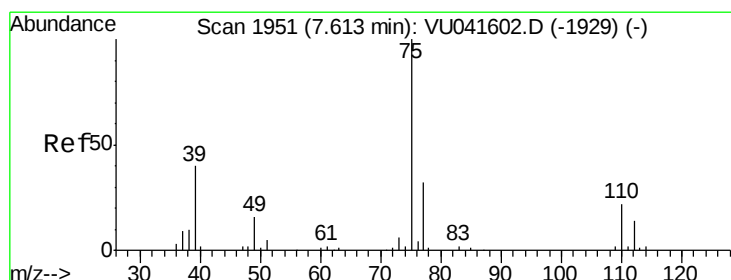
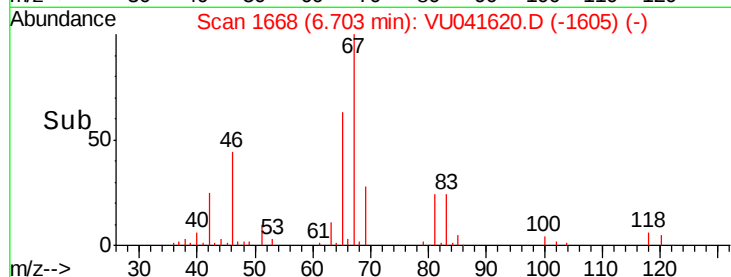
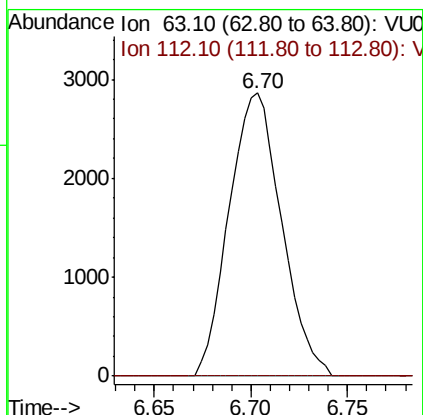
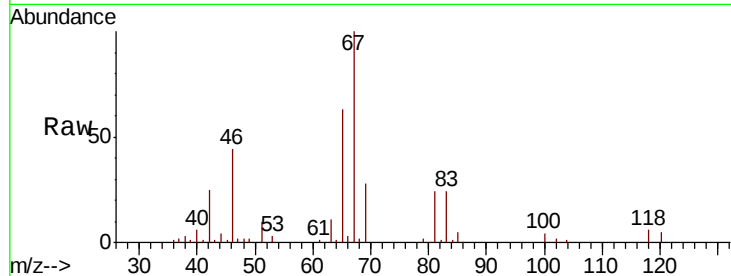




#37
 1,2-Dichloropropane
 Concen: 0.558 ug/L
 RT: 6.70 min Scan# 1668
 Delta R.T. -0.10 min
 Lab File: VU041620.D
 Acq: 14 Dec 2020 19:01

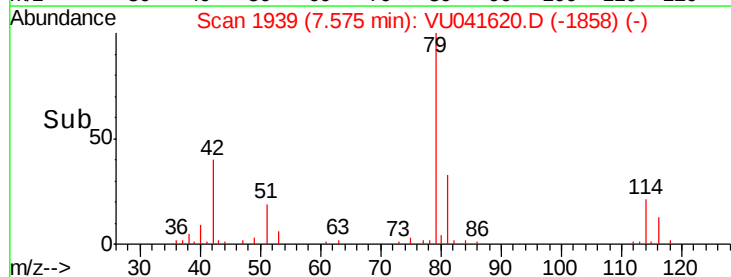
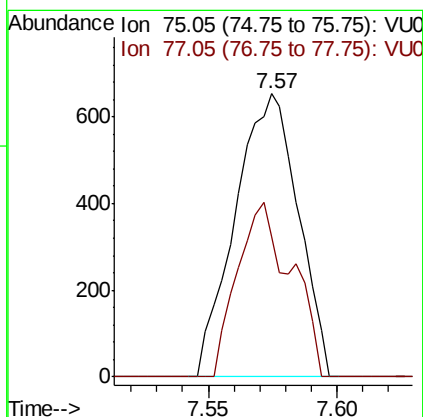
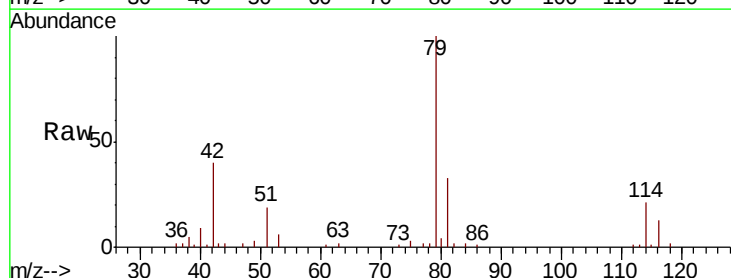
Instrument :
 MSVOA_U
 ClientSampleId :

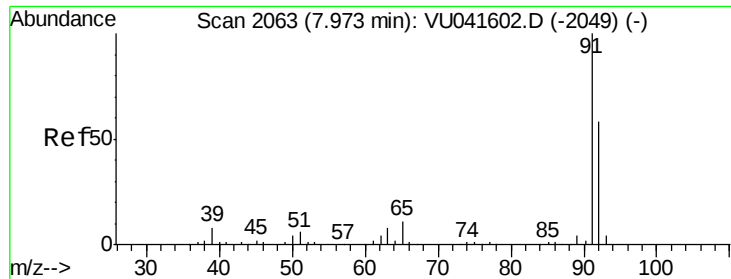
Tot Ion: 63 Resp: 5396
 Ion Ratio Lower Upper
 63 100
 112 0.0 3.1 4.7#



#39
 cis-1,3-Dichloropropene
 Concen: 0.078 ug/L
 RT: 7.57 min Scan# 1939
 Delta R.T. -0.04 min
 Lab File: VU041620.D
 Acq: 14 Dec 2020 19:01

Tgt Ion: 75 Resp: 1111
 Ion Ratio Lower Upper
 75 100
 77 49.5 22.3 41.3#





#42

Toluene

Concen: 5.063 ug/L

RT: 7.98 min Scan# 2064

Delta R.T. 0.00 min

Lab File: VU041620.D

Acq: 14 Dec 2020 19:01

Instrument :

MSVOA_U

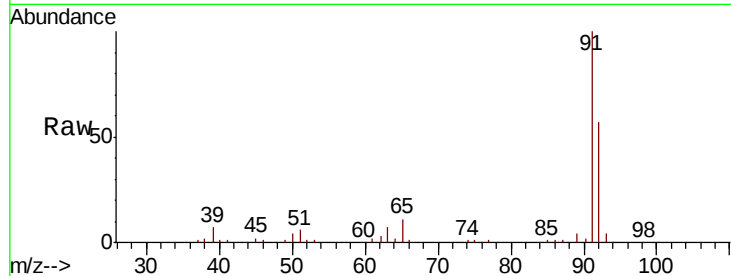
ClientSampleId :

Tot Ion: 91 Resp: 197580

Ion Ratio Lower Upper

91 100

92 57.3 40.0 74.2



Abundance Ion 91.15 (90.85 to 91.85): VU041620.D (-2049) (-)

Ion 92.15 (91.85 to 92.85): VU041620.D (-2049) (-)

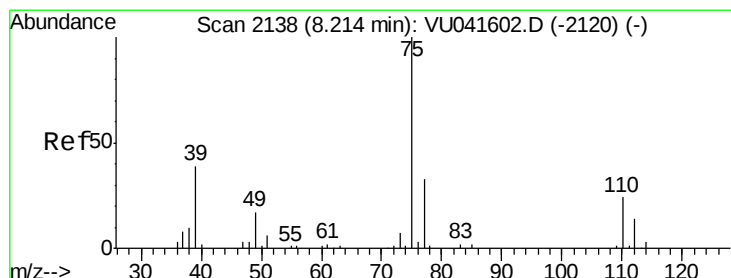
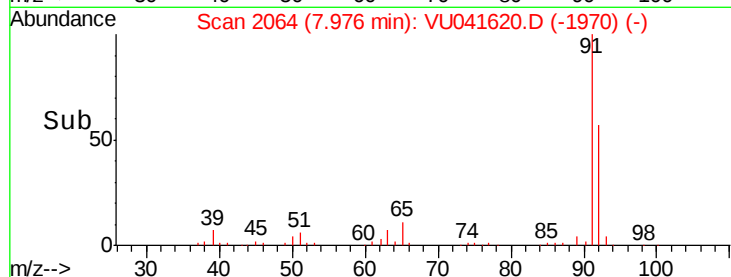
7.98

100000

50000

0

Time-->



#44

trans-1,3-Dichloropropene

Concen: 0.075 ug/L

RT: 8.19 min Scan# 2129

Delta R.T. -0.03 min

Lab File: VU041620.D

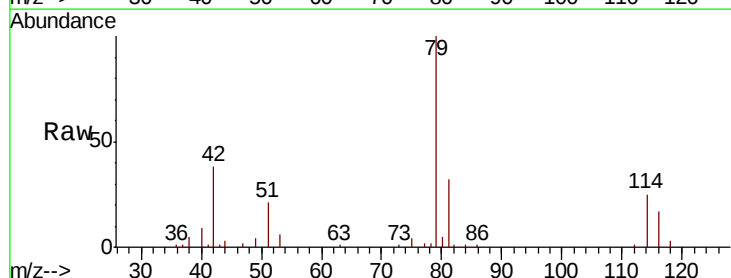
Acq: 14 Dec 2020 19:01

Tgt Ion: 75 Resp: 960

Ion Ratio Lower Upper

75 100

77 47.9 23.8 44.2#



Abundance Ion 75.05 (74.75 to 75.75): VU041620.D (-2120) (-)

Ion 77.05 (76.75 to 77.75): VU041620.D (-2120) (-)

8.19

600

500

400

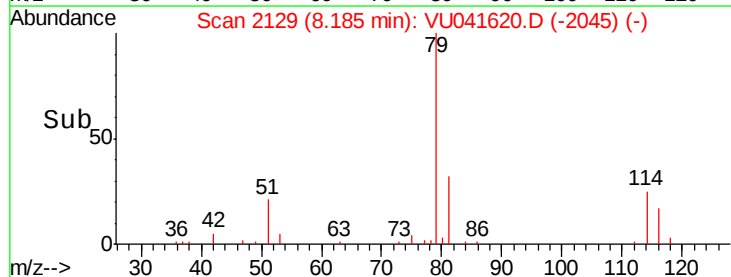
300

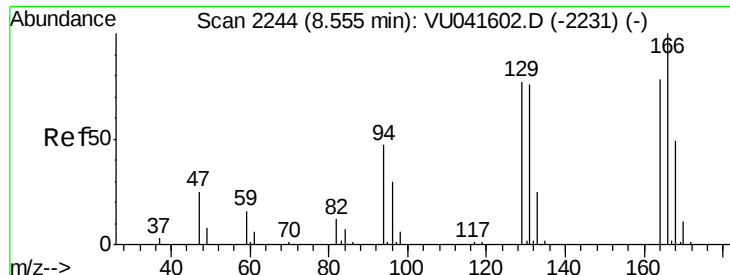
200

100

0

Time-->

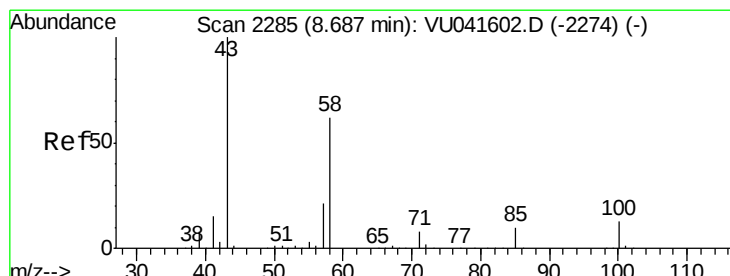
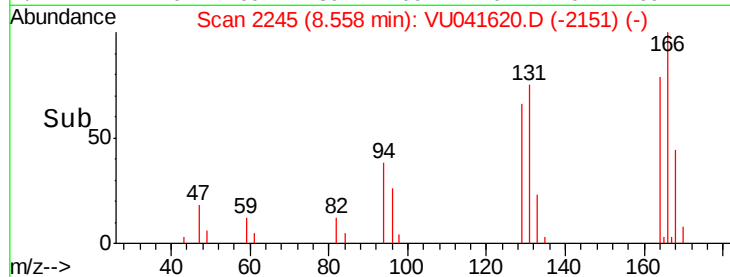
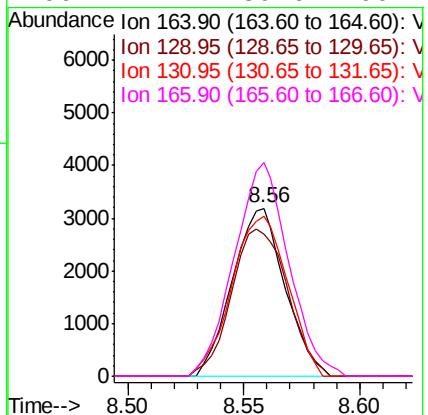
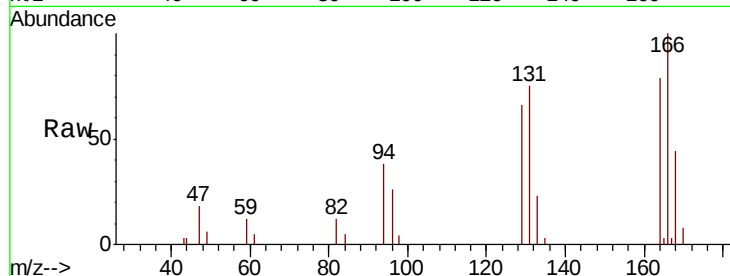




#47
 Tetrachloroethene
 Concen: 0.758 ug/L
 RT: 8.56 min Scan# 2245
 Delta R.T. 0.00 min
 Lab File: VU041620.D
 Acq: 14 Dec 2020 19:01

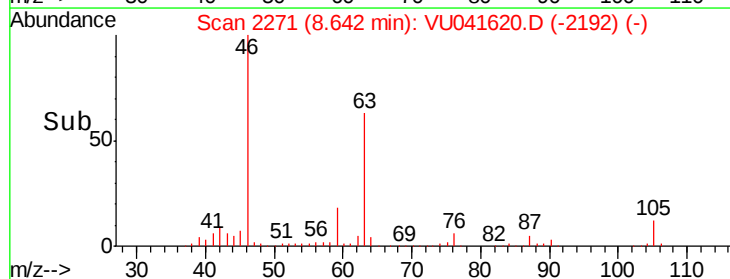
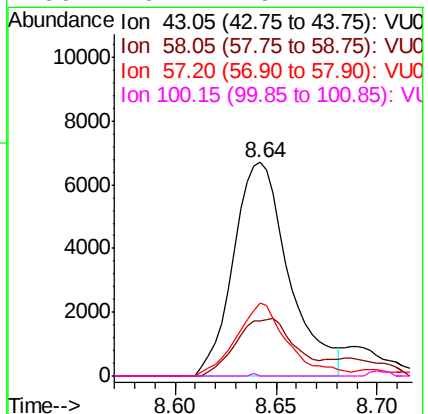
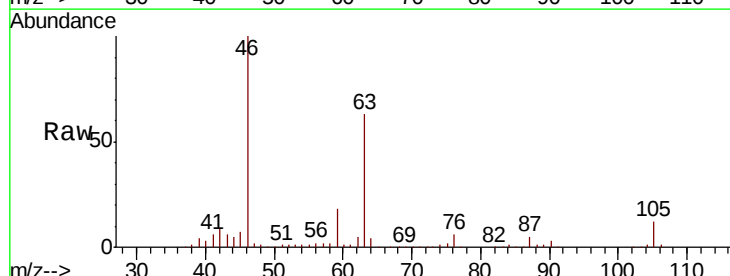
Instrument :
 MSVOA_U
 ClientSampleId :

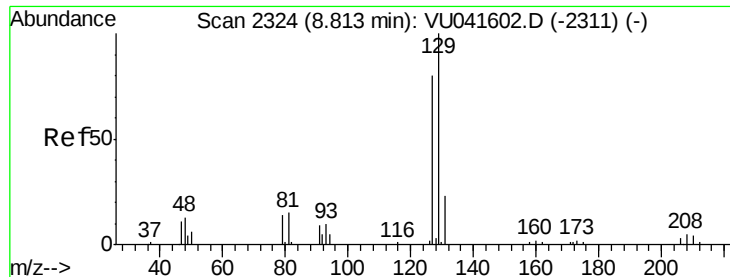
Tot Ion:	164	Resp:	5039
Ion	Ratio	Lower	Upper
164	100		
129	84.5	72.2	134.0
131	95.4	66.9	124.3
166	127.4	89.6	166.4



#48
 2-Hexanone
 Concen: 2.570 ug/L
 RT: 8.64 min Scan# 2271
 Delta R.T. -0.05 min
 Lab File: VU041620.D
 Acq: 14 Dec 2020 19:01

Tgt Ion:	43	Resp:	12869
Ion	Ratio	Lower	Upper
43	100		
58	28.4	47.9	71.9#
57	31.6	16.5	24.7#
100	0.1	9.4	14.2#





#49

Dibromochloromethane

Concen: 0.572 ug/L

RT: 8.56 min Scan# 2244

Delta R.T. -0.26 min

Lab File: VU041620.D

Acq: 14 Dec 2020 19:01

Instrument :

MSVOA_U

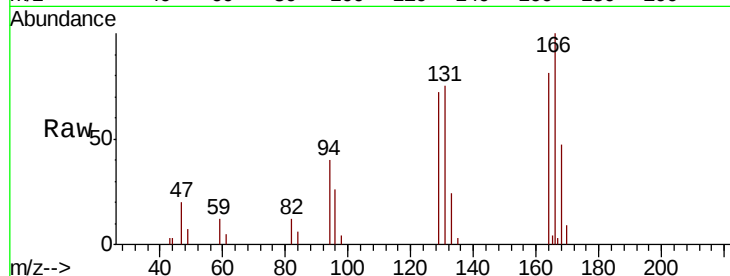
ClientSampleId :

Tot Ion:129 Resp: 4696

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

3000

2500

2000

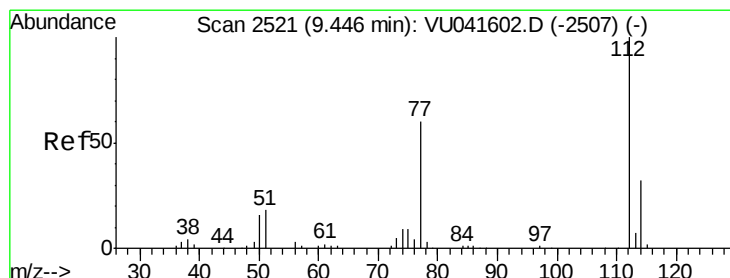
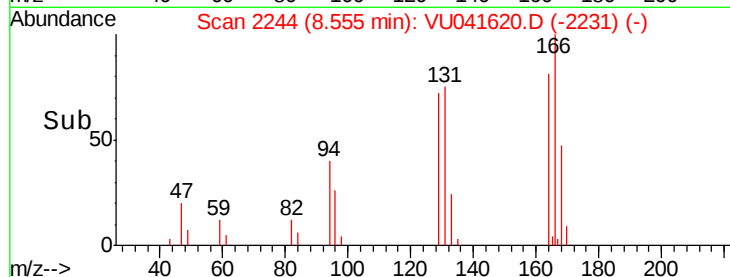
1500

1000

500

0

Time-->



#51

Chlorobenzene

Concen: 5.107 ug/L

RT: 9.45 min Scan# 2522

Delta R.T. 0.00 min

Lab File: VU041620.D

Acq: 14 Dec 2020 19:01

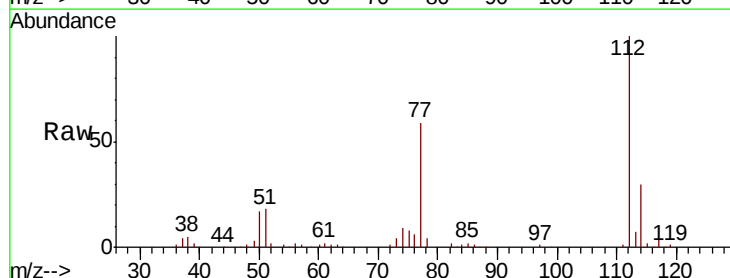
Tgt Ion:112 Resp: 123894

Ion Ratio Lower Upper

112 100

114 30.4 22.7 42.3

77 59.3 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

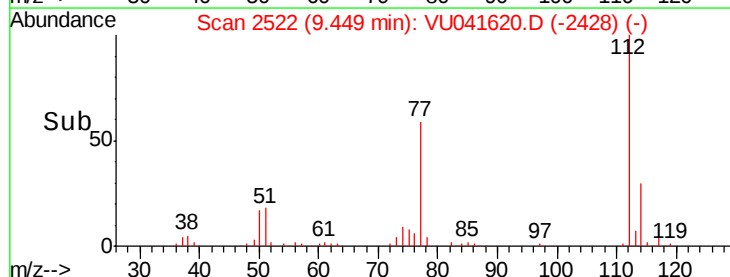
60000

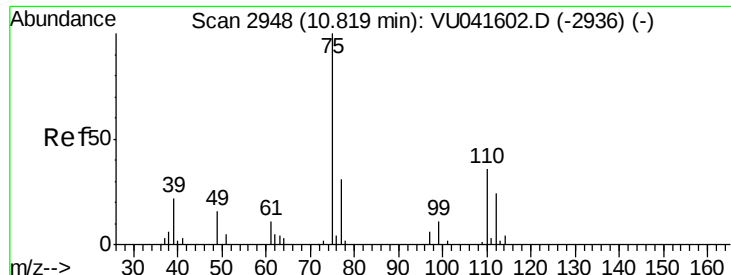
40000

20000

0

Time-->





#59

1,2,3-Trichloropropane

Concen: 0.832 ug/L

RT: 11.81 min Scan# 3255

Delta R.T. 0.99 min

Lab File: VU041620.D

Acq: 14 Dec 2020 19:01

Instrument :

MSVOA_U

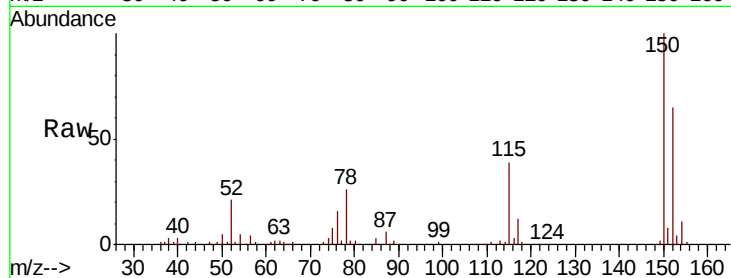
ClientSampleId :

Tot Ion: 75 Resp: 6043

Ion Ratio Lower Upper

75 100

77 0.0 26.2 39.2#



Abundance Ion 75.00 (74.70 to 75.70): VU0

Ion 77.00 (76.70 to 77.70): VU0

