

Data Path : Z:\VOASRV\HPCHEM1\MSVOA U\DATA\VU061320\
 Data File : VU038876.D
 Acq On : 13 Jun 2020 02:27
 Operator : SY/MD
 Sample : L2985-01
 Misc : 25.0mL/MSVOA U/WATER
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_U
 ClientSampleId :

Quant Time: Jun 13 02:57:46 2020
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_U\METHOD\SOMUTR061220WMA.M
 Quant Title : TRACE VOA SOM01.0
 QLast Update : Sat Jun 13 02:52:53 2020
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Difluorobenzene	6.28	114	231931	5.00	ug/L	0.00
28) Chlorobenzene-d5	9.44	117	238488	5.00	ug/L	0.00
60) 1,4-Dichlorobenzene-d4	11.82	152	108641	5.00	ug/L	0.00

System Monitoring Compounds

4) Vinyl Chloride-d3	1.61	65	57267	4.53	ug/L	0.00
Spiked Amount	5.000	Range	40 - 130	Recovery	=	90.60%
7) Chloroethane-d5	1.93	69	58039	5.72	ug/L	0.00
Spiked Amount	5.000	Range	65 - 130	Recovery	=	114.40%
11) 1,1-Dichloroethene-d2	2.59	63	101357	3.53	ug/L	0.00
Spiked Amount	5.000	Range	60 - 125	Recovery	=	70.60%
20) 2-Butanone-d5	4.68	46	309223	77.94	ug/L	0.00
Spiked Amount	50.000	Range	40 - 130	Recovery	=	155.88%#
24) Chloroform-d	5.10	84	162495	5.81	ug/L	0.00
Spiked Amount	5.000	Range	70 - 125	Recovery	=	116.20%
26) 1,2-Dichloroethane-d4	5.74	65	99867	6.31	ug/L	0.00
Spiked Amount	5.000	Range	70 - 130	Recovery	=	126.20%
32) Benzene-d6	5.76	84	301076	5.40	ug/L	0.00
Spiked Amount	5.000	Range	70 - 125	Recovery	=	108.00%
36) 1,2-Dichloropropane-d6	6.72	67	98912	5.93	ug/L	0.00
Spiked Amount	5.000	Range	60 - 140	Recovery	=	118.60%
41) Toluene-d8	7.92	98	229618	4.49	ug/L	0.00
Spiked Amount	5.000	Range	70 - 130	Recovery	=	89.80%
43) trans-1,3-Dichloropropene-	8.20	79	34222	4.62	ug/L	0.00
Spiked Amount	5.000	Range	55 - 130	Recovery	=	92.40%
46) 2-Hexanone-d5	8.66	63	256416	77.94	ug/L	0.00
Spiked Amount	50.000	Range	45 - 130	Recovery	=	155.88%#
57) 1,1,2,2-Tetrachloroethane-	10.77	84	94565	6.48	ug/L	0.00
Spiked Amount	5.000	Range	65 - 120	Recovery	=	129.60%#
64) 1,2-Dichlorobenzene-d4	12.20	152	101696	5.75	ug/L	0.00
Spiked Amount	5.000	Range	80 - 120	Recovery	=	115.00%

Target Compounds

					Ovalue
2) Dichlorodifluoromethane	1.39	85	44006	1.948	ug/L 97
9) Trichlorofluoromethane	2.16	101	642518	21.864	ug/L 99
10) 1,1,2-Trichloro-1,2,2-trif	2.61	101	13829	0.823	ug/L 99
12) 1,1-Dichloroethene	2.61	96	12436	0.766	ug/L # 21
16) Methylene chloride	3.08	84	2142	0.115	ug/L 92
17) Methyl tert-butyl Ether	3.40	73	71998	1.720	ug/L 99
18) trans-1,2-Dichloroethene	3.39	96	17289	0.991	ug/L 97
19) 1,1-Dichloroethane	3.91	63	33512	1.068	ug/L 95
22) cis-1,2-Dichloroethene	4.70	96	42518	2.341	ug/L 89
25) Chloroform	5.12	83	12571	0.388	ug/L 99
29) 1,1,1-Trichloroethane	5.35	97	3939	0.134	ug/L 95
34) Trichloroethene	6.57	95	394364	20.956	ug/L 98
35) Methylcyclohexane	6.72	83	24337	0.832	ug/L # 16
37) 1,2-Dichloropropane	6.72	63	11705	0.645	ug/L # 86
39) cis-1,3-Dichloropropene	7.59	75	2413	0.090	ug/L # 72
47) Tetrachloroethene	8.57	164	351597	24.269	ug/L 100
48) 2-Hexanone	8.70	43	9495	1.017	ug/L # 88

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MSVOA_U
ClientSampleId :

Quant Time: Jun 13 02:57:46 2020
Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_U\METHOD\SOMUTR061220WMA.M
Quant Title : TRACE VOA SOM01.0
QLast Update : Sat Jun 13 02:52:53 2020
Response via : Initial Calibration

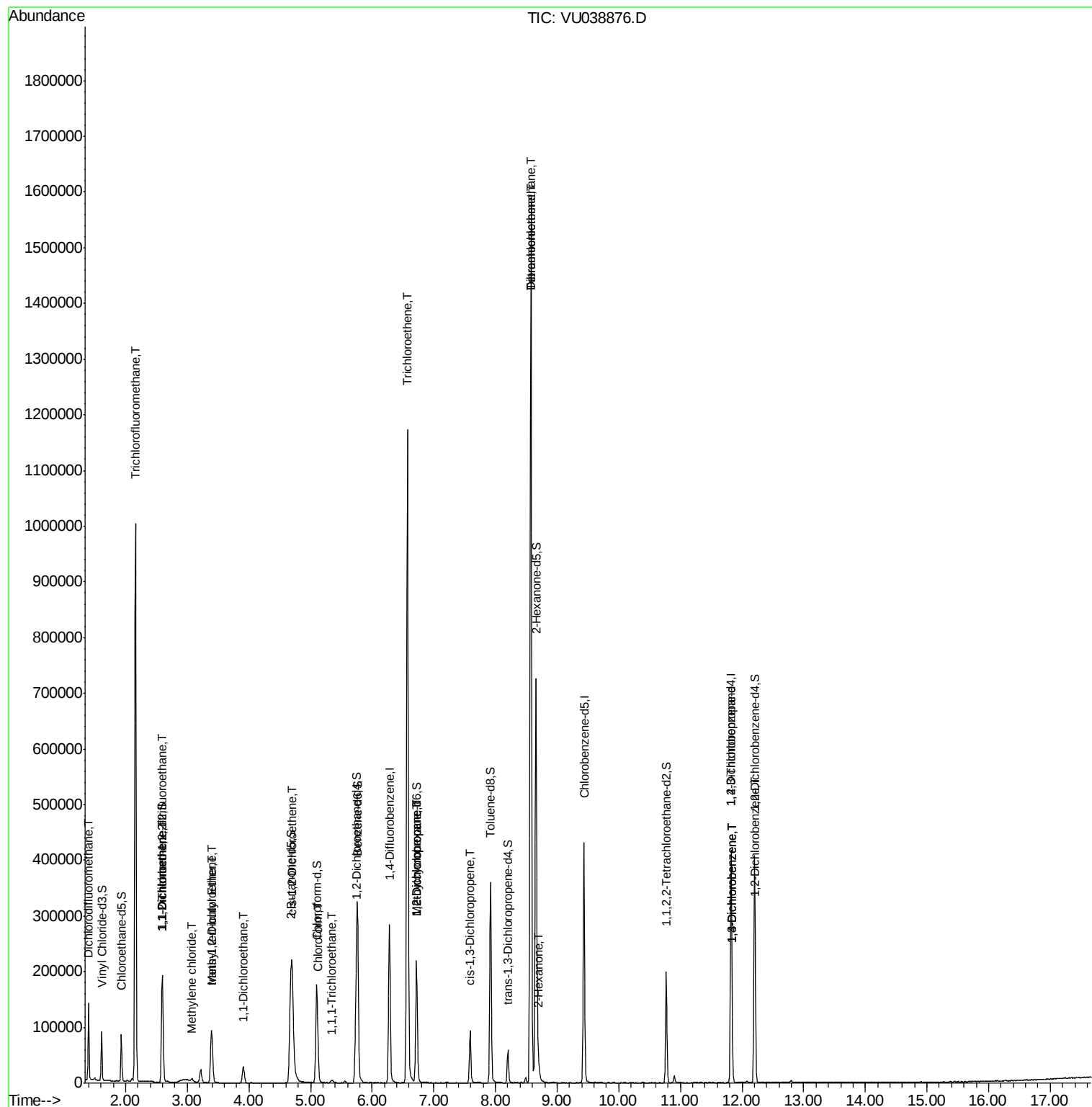
Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
49) Dibromochloromethane	8.57	129	337928	21.864	ug/L #	10
59) 1,2,3-Trichloropropane	11.83	75	17009	1.263	ug/L	98
62) 1,3-Dichlorobenzene	11.85	146	8817	0.251	ug/L	97
63) 1,4-Dichlorobenzene	11.85	146	8817	0.246	ug/L	98
65) 1,2-Dichlorobenzene	12.22	146	6859	0.208	ug/L	95

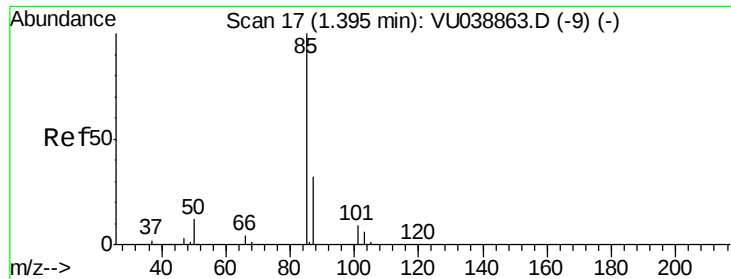
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\V0ASRV\HPCHEM1\MSVOA U\DATA\VU061320\
Data File : VU038876.D
Acq On : 13 Jun 2020 02:27
Operator : SY/MD
Sample : L2985-01
Misc : 25.0mL/MSVOA U/WATER
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Quant Title : TRACE VOA SOM01.0
QLast Update : Sat Jun 13 02:52:53 2020
Response via : Initial Calibration





#2

Dichlorodifluoromethane

Concen: 1.948 ug/L

RT: 1.39 min Scan# 17

Delta R.T. 0.00 min

Lab File: VU038876.D

Acq: 13 Jun 2020 02:27

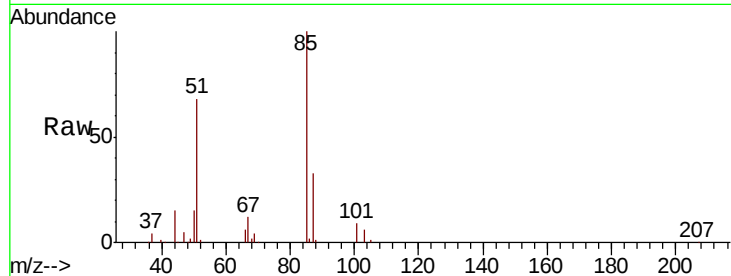
Instrument :
MSVOA_U
ClientSampleId :

Tot Ion: 85 Resp: 44006

Ion Ratio Lower Upper

85 100

87 34.2 25.9 38.9

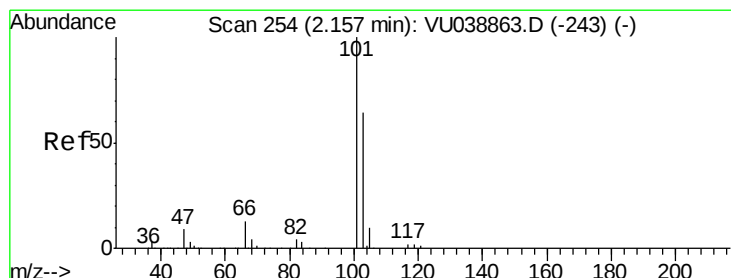
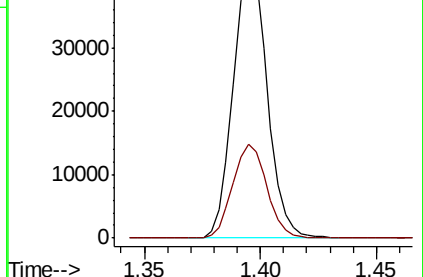
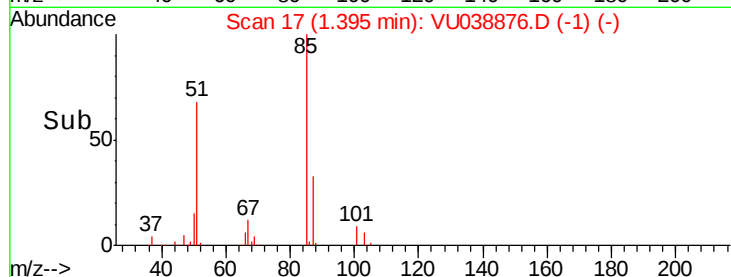


Abundance Ion 85.00 (84.70 to 85.70): VU038863.D (-9) (-)

Ion 87.00 (86.70 to 87.70): VU038863.D (-9) (-)

1.39

Time-->



#9

Trichlorofluoromethane

Concen: 21.864 ug/L

RT: 2.16 min Scan# 255

Delta R.T. 0.00 min

Lab File: VU038876.D

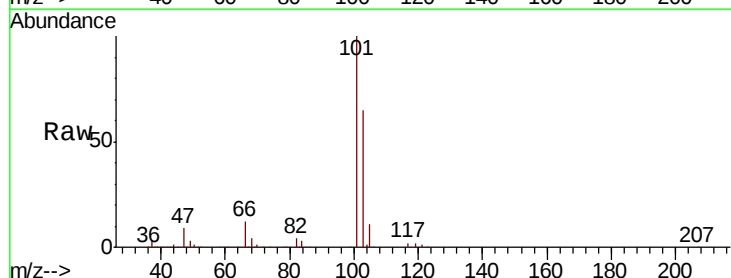
Acq: 13 Jun 2020 02:27

Tgt Ion: 101 Resp: 642518

Ion Ratio Lower Upper

101 100

103 64.9 51.5 77.3

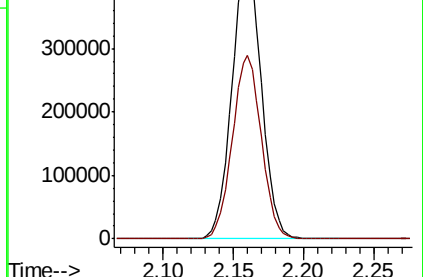
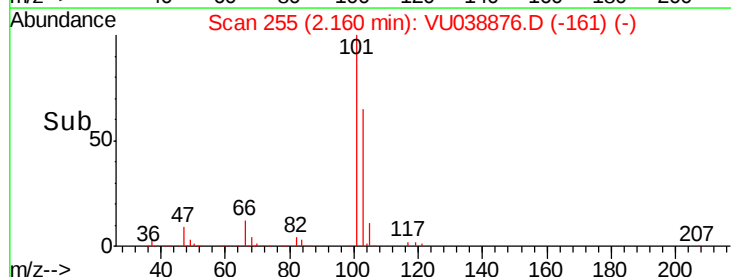


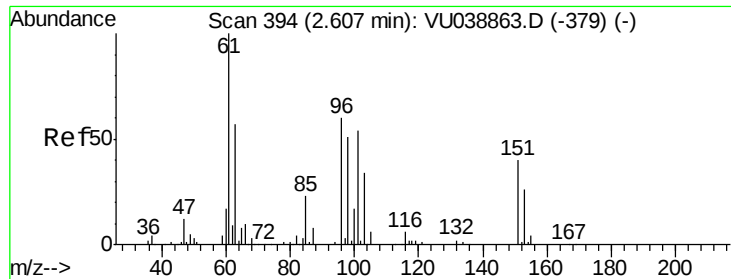
Abundance Ion 101.00 (100.70 to 101.70): VU038863.D (-243) (-)

Ion 103.00 (102.70 to 103.70): VU038863.D (-243) (-)

2.16

Time-->





#10

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

Concen: 0.823 ug/L

RT: 2.61 min Scan# 394

Delta R.T. 0.00 min

Lab File: VU038876.D

Acq: 13 Jun 2020 02:27

Instrument :

MSVOA_U

ClientSampleId :

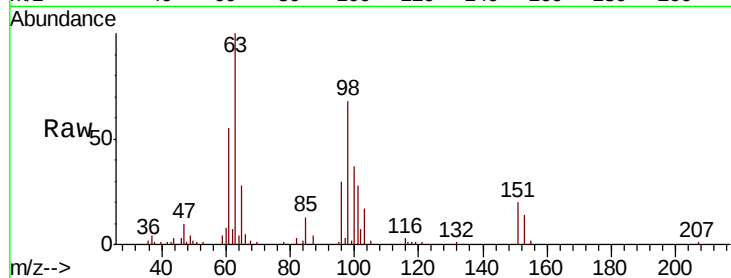
Tot Ion:101 Resp: 13829

Ion Ratio Lower Upper

101 100

85 42.7 34.5 51.7

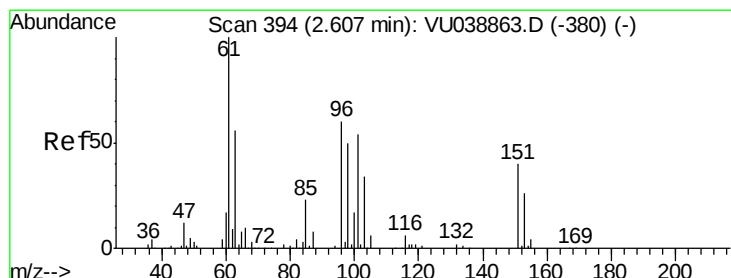
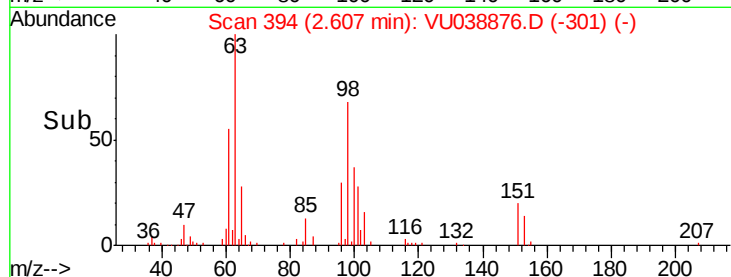
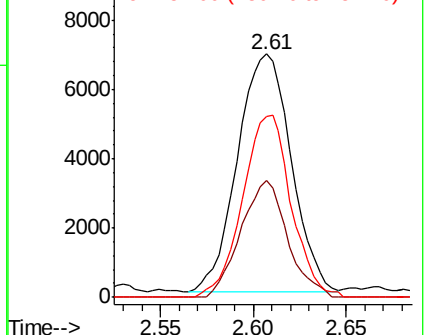
151 69.4 56.5 84.7



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



#12

1,1-Dichloroethene

Concen: 0.766 ug/L

RT: 2.61 min Scan# 394

Delta R.T. 0.00 min

Lab File: VU038876.D

Acq: 13 Jun 2020 02:27

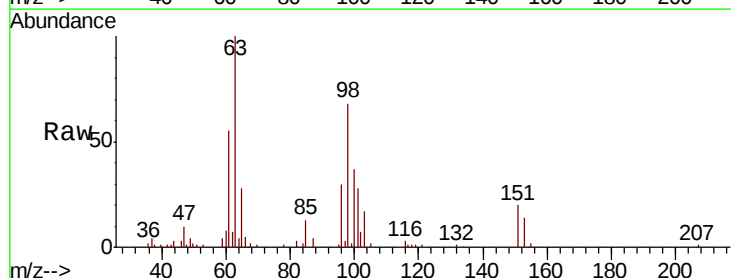
Tgt Ion: 96 Resp: 12436

Ion Ratio Lower Upper

96 100

61 181.8 120.2 223.2

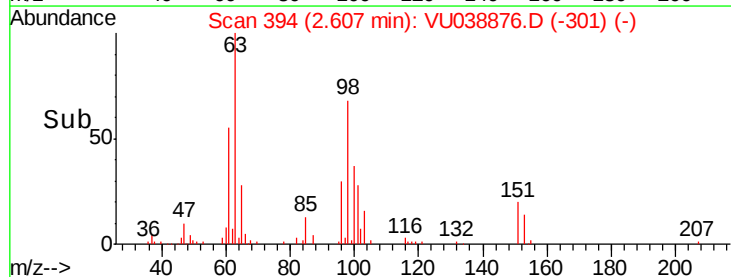
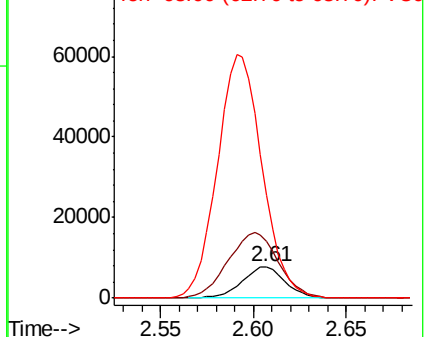
63 330.0 90.1 167.3#

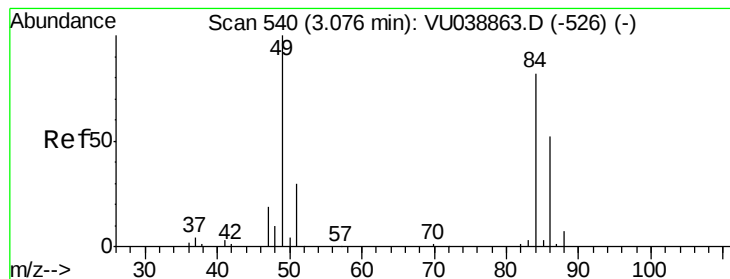


Abundance Ion 96.00 (95.70 to 96.70): VU0

Ion 61.05 (60.75 to 61.75): VU0

Ion 63.00 (62.70 to 63.70): VU0





#16

Methylene chloride

Concen: 0.115 ug/L

RT: 3.08 min Scan# 541

Delta R.T. 0.00 min

Lab File: VU038876.D

Acq: 13 Jun 2020 02:27

Instrument :

MSVOA_U

ClientSampleId :

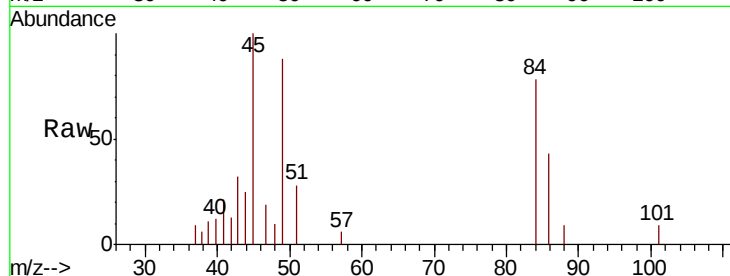
Tot Ion: 84 Resp: 2142

Ion Ratio Lower Upper

84 100

86 55.5 43.0 80.0

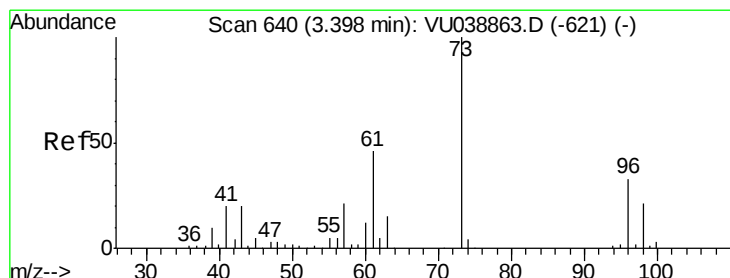
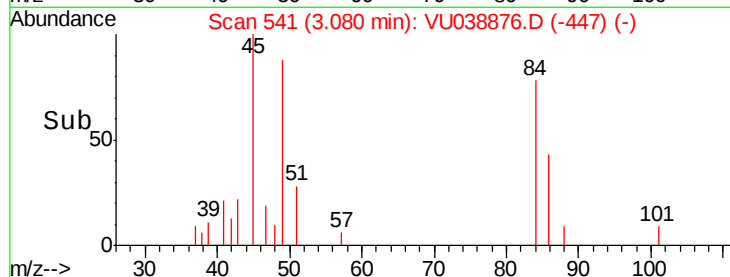
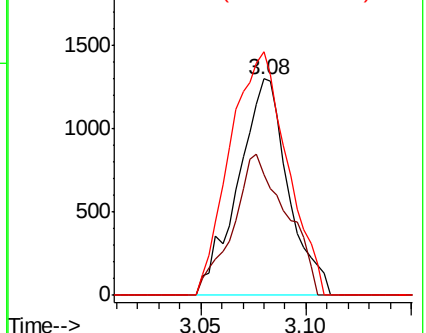
49 112.5 85.0 157.8



Abundance Ion 84.05 (83.75 to 84.75): VU038876.D (-547) (-)

Ion 86.00 (85.70 to 86.70): VU038876.D (-547) (-)

Ion 49.10 (48.80 to 49.80): VU038876.D (-547) (-)



#17

Methyl tert-butyl Ether

Concen: 1.720 ug/L

RT: 3.40 min Scan# 640

Delta R.T. 0.00 min

Lab File: VU038876.D

Acq: 13 Jun 2020 02:27

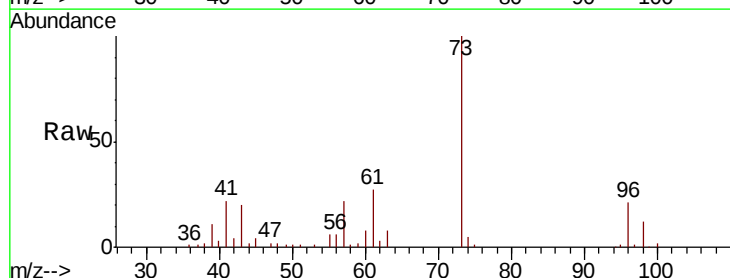
Tgt Ion: 73 Resp: 71998

Ion Ratio Lower Upper

73 100

43 19.7 15.9 23.9

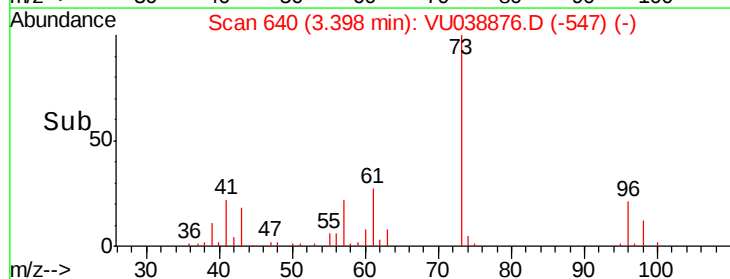
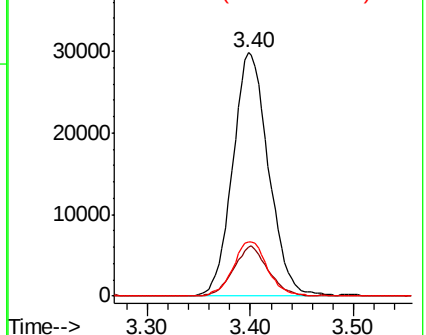
57 21.4 17.5 26.3

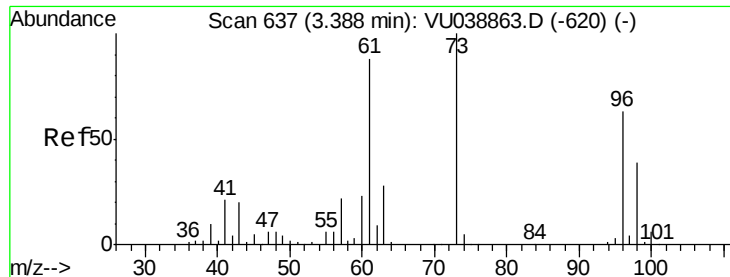


Abundance Ion 73.10 (72.80 to 73.80): VU038876.D (-547) (-)

Ion 43.05 (42.75 to 43.75): VU038876.D (-547) (-)

Ion 57.10 (56.80 to 57.80): VU038876.D (-547) (-)





#18

trans-1,2-Dichloroethene

Concen: 0.991 ug/L

RT: 3.39 min Scan# 636

Delta R.T. -0.00 min

Lab File: VU038876.D

Acq: 13 Jun 2020 02:27

Instrument :

MSVOA_U

ClientSampleId :

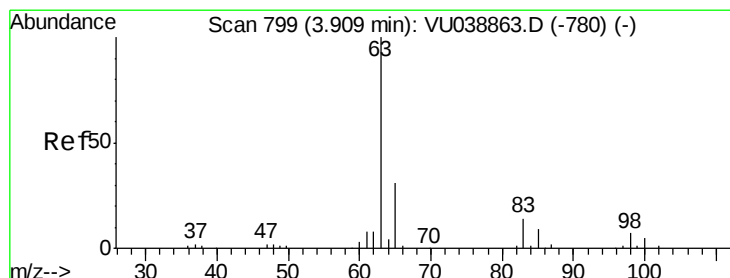
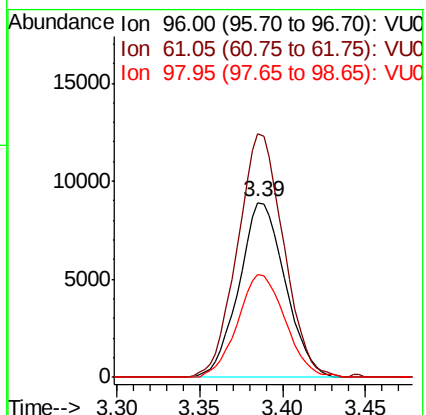
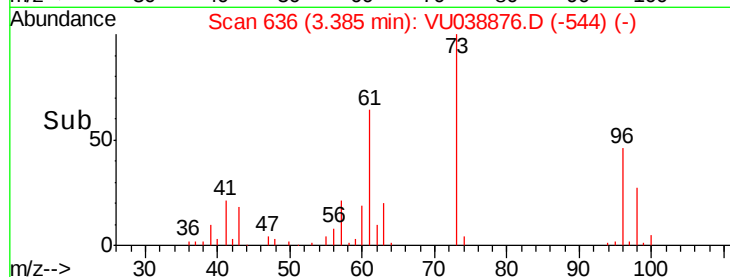
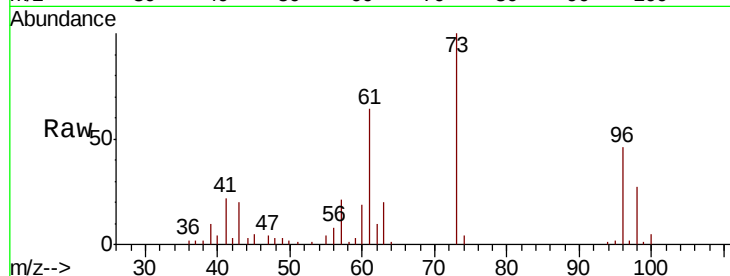
Tot Ion: 96 Resp: 17289

Ion Ratio Lower Upper

96 100

61 139.1 99.3 184.5

98 58.6 43.9 81.5



#19

1,1-Dichloroethane

Concen: 1.068 ug/L

RT: 3.91 min Scan# 799

Delta R.T. 0.00 min

Lab File: VU038876.D

Acq: 13 Jun 2020 02:27

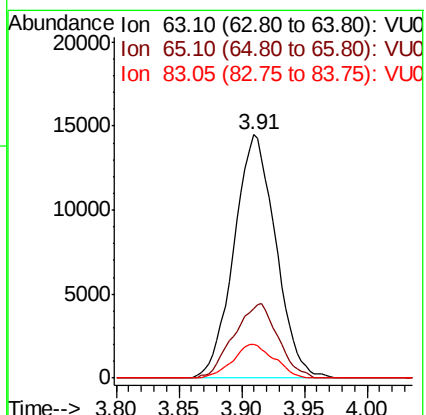
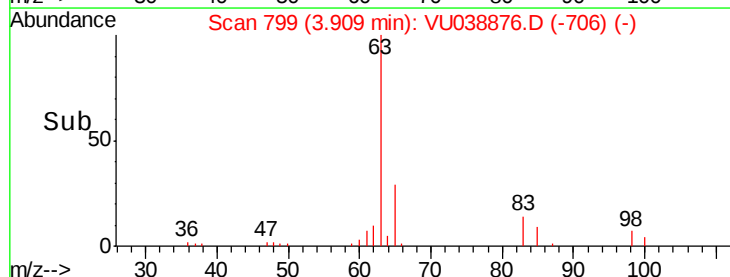
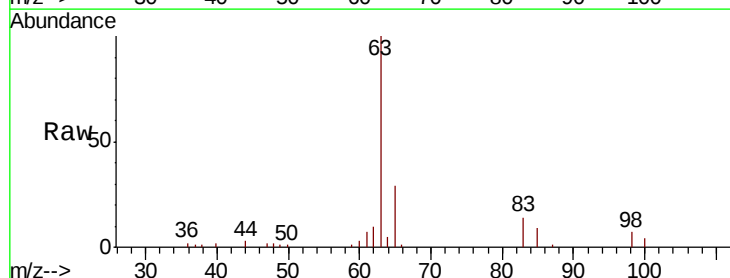
Tgt Ion: 63 Resp: 33512

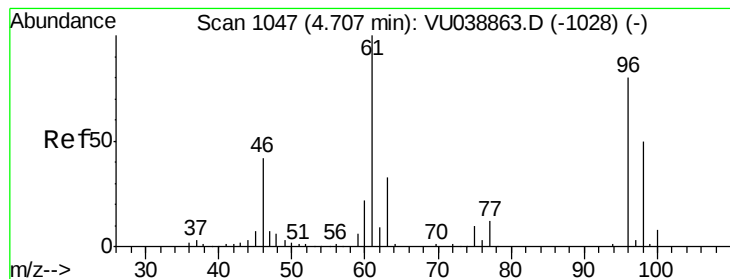
Ion Ratio Lower Upper

63 100

65 28.5 22.3 41.5

83 14.0 10.1 18.9





#22

cis-1,2-Dichloroethene

Concen: 2.341 ug/L

RT: 4.70 min Scan# 1046

Delta R.T. -0.00 min

Lab File: VU038876.D

Acq: 13 Jun 2020 02:27

Instrument :

MSVOA_U

ClientSampleId :

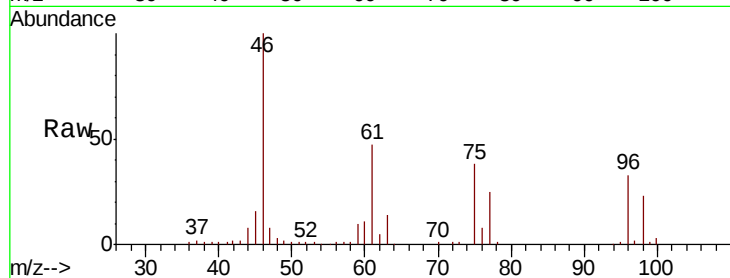
Tot Ion: 96 Resp: 42518

Ion Ratio Lower Upper

96 100

61 140.8 89.7 166.7

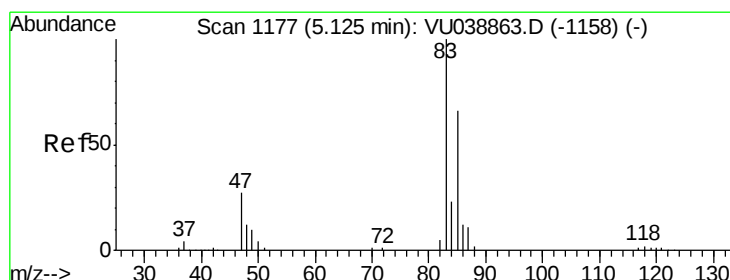
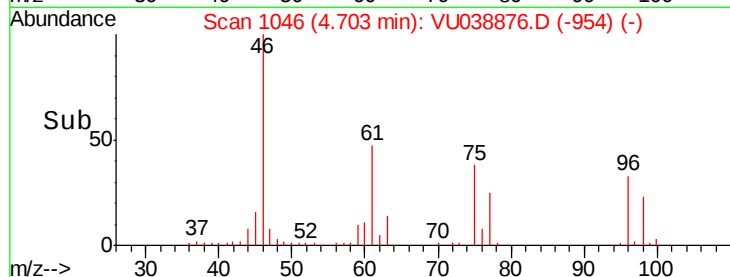
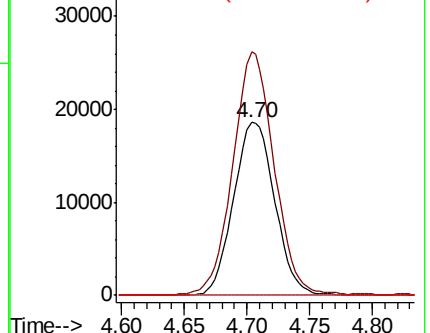
68 0.0 0.0 0.0



Abundance Ion 96.00 (95.70 to 96.70): VU038876.D (-954) (-)

Ion 61.05 (60.75 to 61.75): VU038876.D (-954) (-)

Ion 68.15 (67.85 to 68.85): VU038876.D (-954) (-)



#25

Chloroform

Concen: 0.388 ug/L

RT: 5.12 min Scan# 1177

Delta R.T. 0.00 min

Lab File: VU038876.D

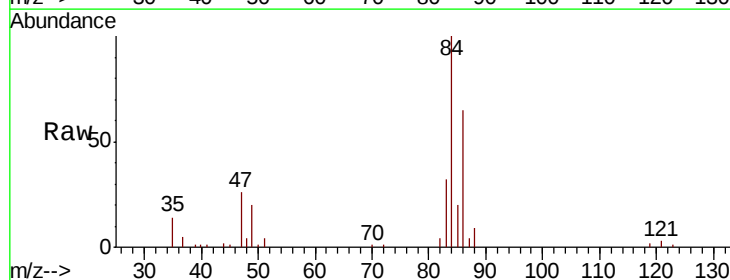
Acq: 13 Jun 2020 02:27

Tgt Ion: 83 Resp: 12571

Ion Ratio Lower Upper

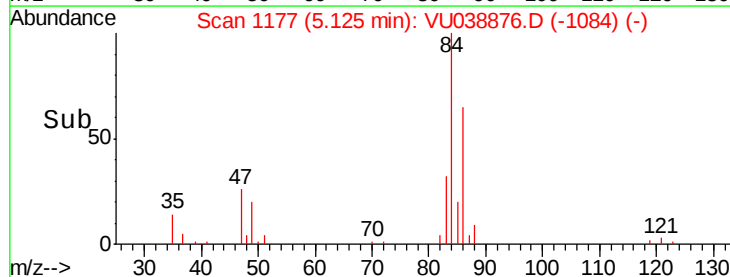
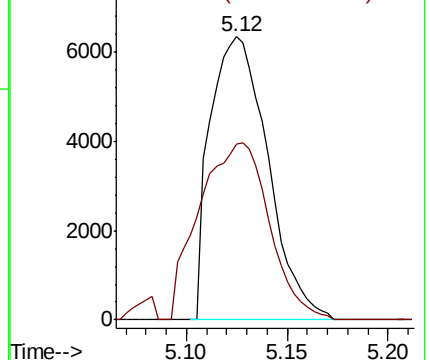
83 100

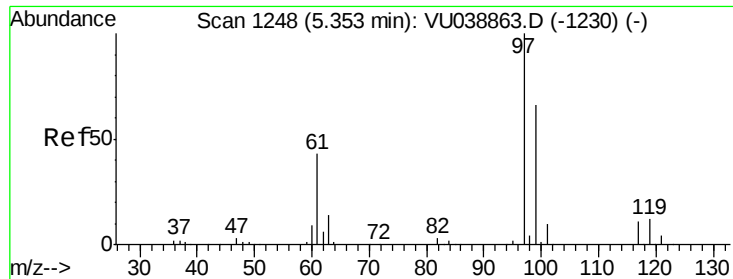
85 62.1 44.1 81.9



Abundance Ion 83.05 (82.75 to 83.75): VU038876.D (-1084) (-)

Ion 85.00 (84.70 to 85.70): VU038876.D (-1084) (-)

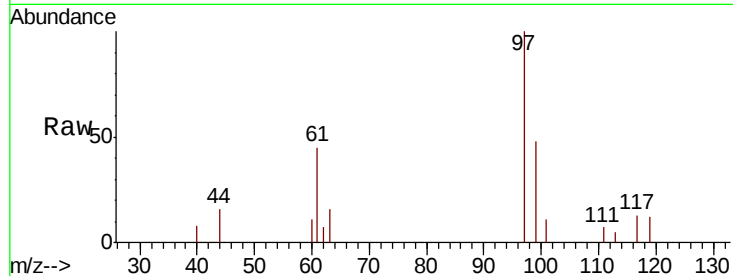




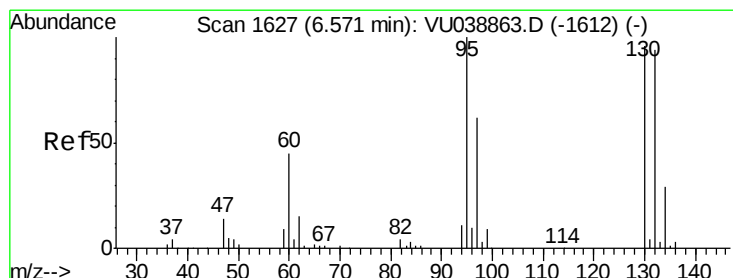
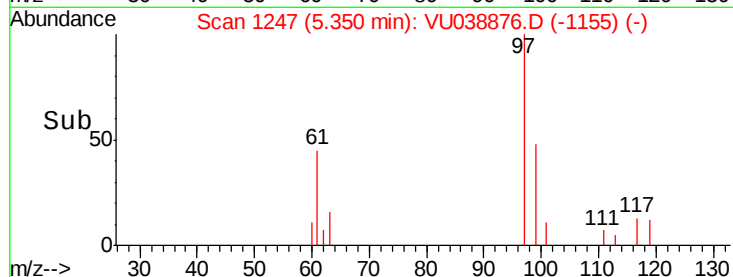
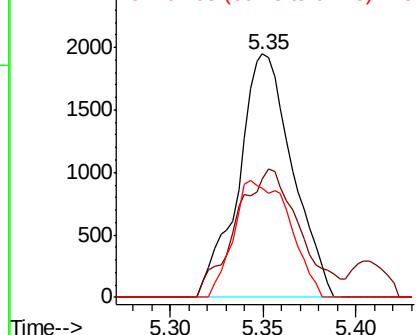
#29
1,1,1-Trichloroethane
Concen: 0.134 ug/L
RT: 5.35 min Scan# 1247
Delta R.T. -0.00 min
Lab File: VU038876.D
Acq: 13 Jun 2020 02:27

Instrument :
MSVOA_U
ClientSampled :

Tot Ion: 97 Resp: 3939
Ion Ratio Lower Upper
97 100
99 62.3 52.1 78.1
61 49.8 35.9 53.9

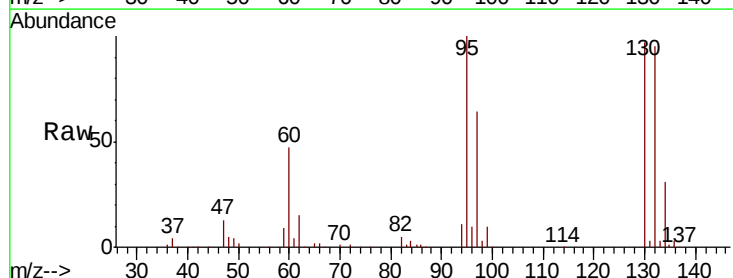


Abundance Ion 96.95 (96.65 to 97.65): VU0
Ion 99.05 (98.75 to 99.75): VU0
Ion 61.05 (60.75 to 61.75): VU0

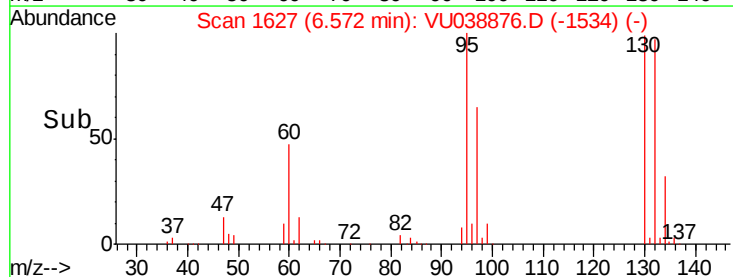
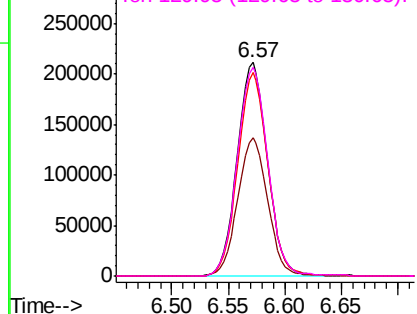


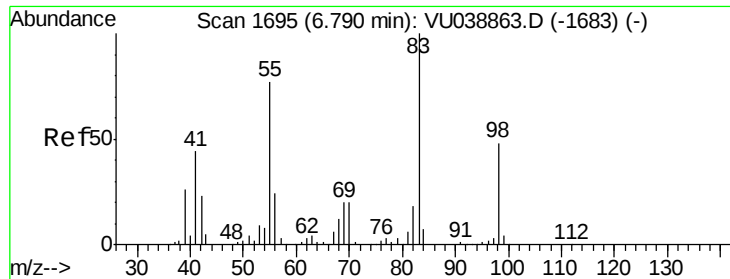
#34
Trichloroethene
Concen: 20.956 ug/L
RT: 6.57 min Scan# 1627
Delta R.T. 0.00 min
Lab File: VU038876.D
Acq: 13 Jun 2020 02:27

Tgt Ion: 95 Resp: 394364
Ion Ratio Lower Upper
95 100
97 64.5 46.1 85.5
132 95.1 67.5 125.3
130 97.4 66.7 123.9



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

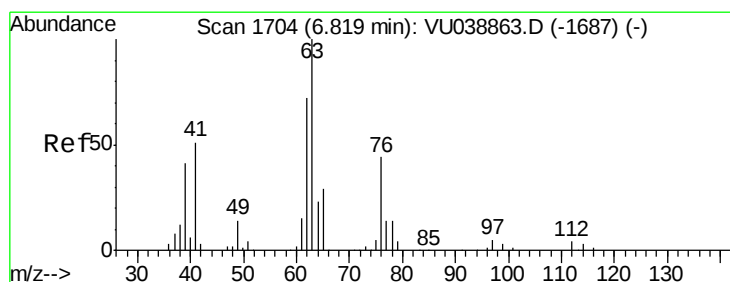
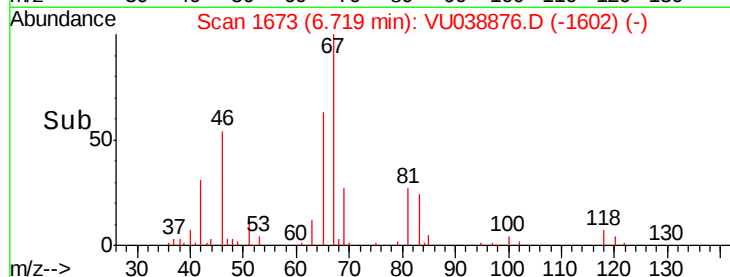
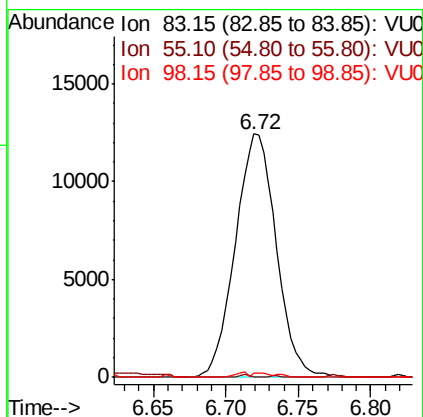
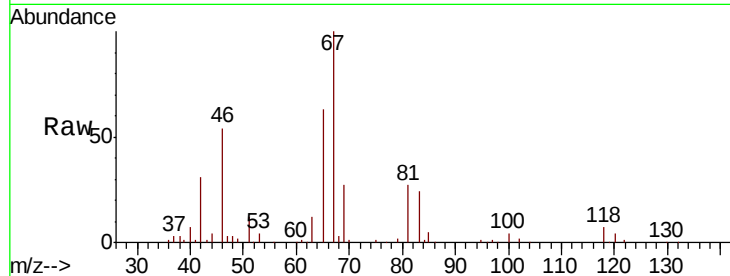




#35
Methvlcvclohexane
Concen: 0.832 ug/L
RT: 6.72 min Scan# 1673
Delta R.T. -0.07 min
Lab File: VU038876.D
Acq: 13 Jun 2020 02:27

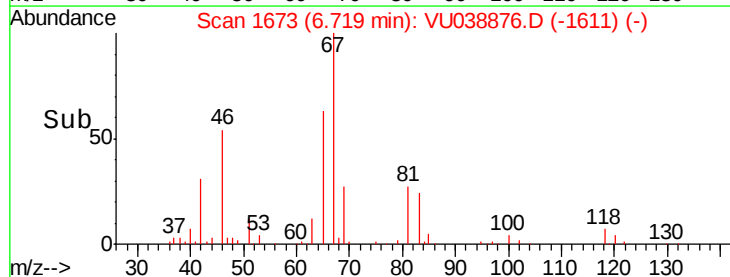
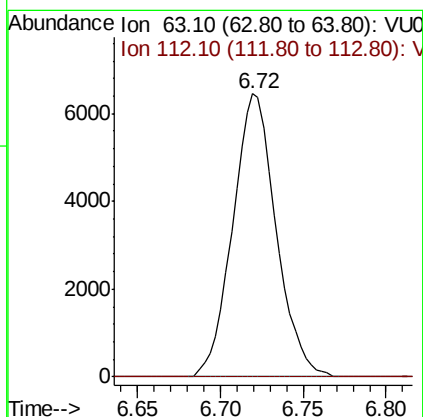
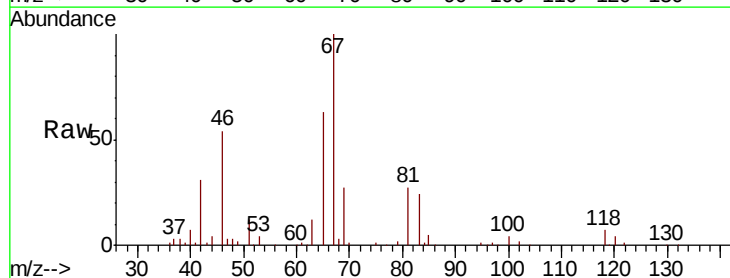
Instrument :
MSVOA_U
ClientSampleId :

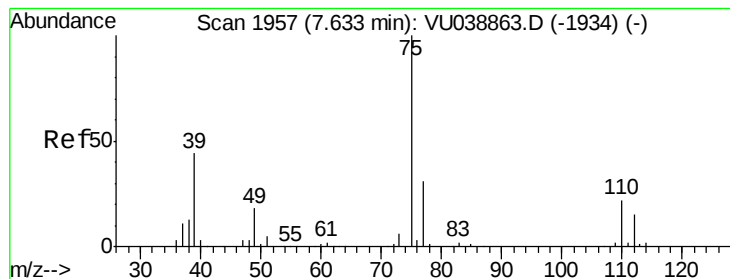
Tot Ion: 83 Resp: 24337
Ion Ratio Lower Upper
83 100
55 0.3 64.2 96.2#
98 0.0 40.5 60.7#



#37
1,2-Dichloropropane
Concen: 0.645 ug/L
RT: 6.72 min Scan# 1673
Delta R.T. -0.10 min
Lab File: VU038876.D
Acq: 13 Jun 2020 02:27

Tgt Ion: 63 Resp: 11705
Ion Ratio Lower Upper
63 100
112 0.0 3.8 5.6#





#39

cis-1,3-Dichloropropene

Concen: 0.090 ug/L

RT: 7.59 min Scan# 1944

Delta R.T. -0.04 min

Lab File: VU038876.D

Acq: 13 Jun 2020 02:27

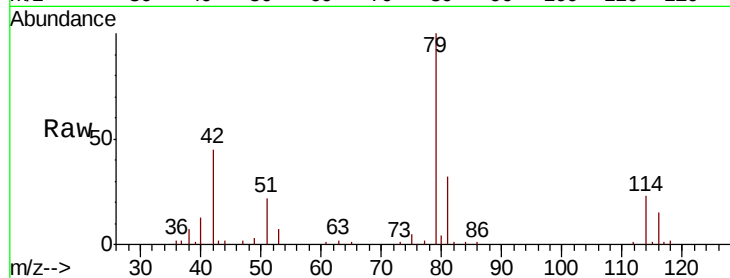
Instrument :
MSVOA_U
ClientSampled :

Tot Ion: 75 Resp: 2413

Ion Ratio Lower Upper

75 100

77 47.7 22.4 41.6#



Abundance Ion 75.05 (74.75 to 75.75): VU038876.D (-1864) (-)

Ion 77.05 (76.75 to 77.75): VU038876.D (-1864) (-)

7.59

1500

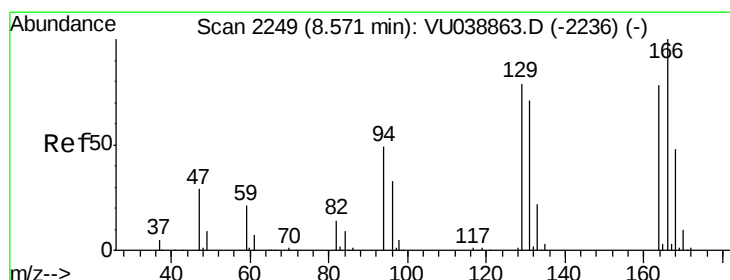
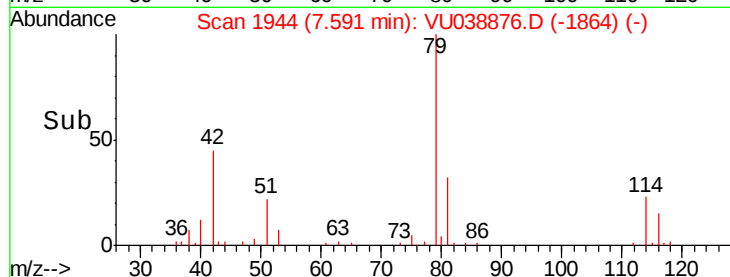
1000

500

0

7.55 7.60 7.65

Time-->



#47

Tetrachloroethene

Concen: 24.269 ug/L

RT: 8.57 min Scan# 2250

Delta R.T. 0.00 min

Lab File: VU038876.D

Acq: 13 Jun 2020 02:27

Tgt Ion:164 Resp: 351597

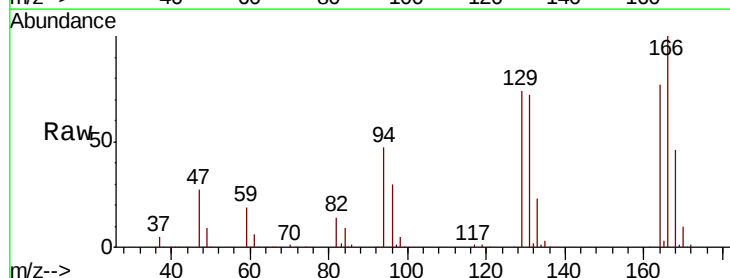
Ion Ratio Lower Upper

164 100

129 96.3 67.3 124.9

131 93.2 65.0 120.6

166 130.1 91.0 169.0



Abundance Ion 163.90 (163.60 to 164.60): VU038876.D (-2156) (-)

Ion 128.95 (128.65 to 129.65): VU038876.D (-2156) (-)

Ion 130.95 (130.65 to 131.65): VU038876.D (-2156) (-)

Ion 165.90 (165.60 to 166.60): VU038876.D (-2156) (-)

400000

300000

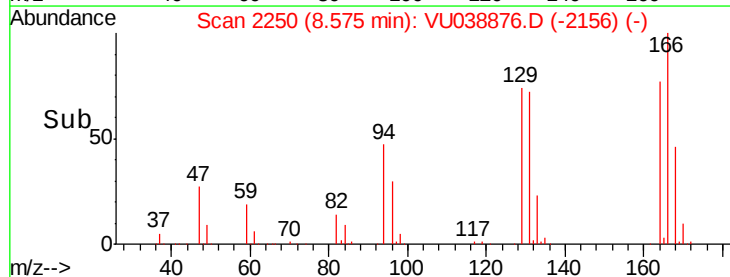
200000

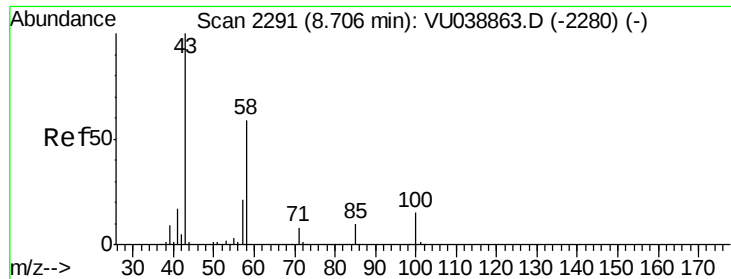
100000

0

8.50 8.55 8.60 8.65

Time-->

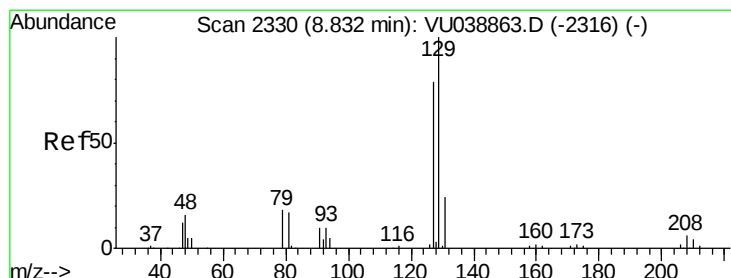
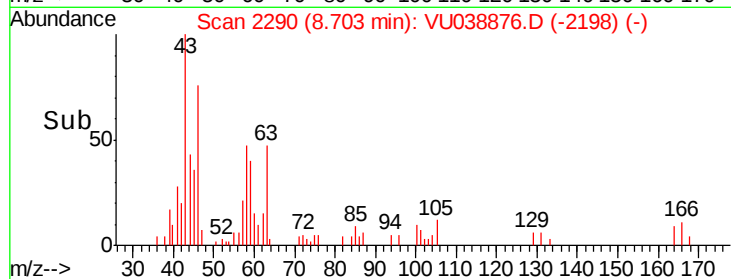
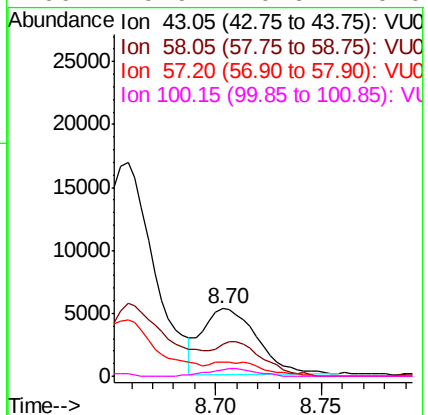
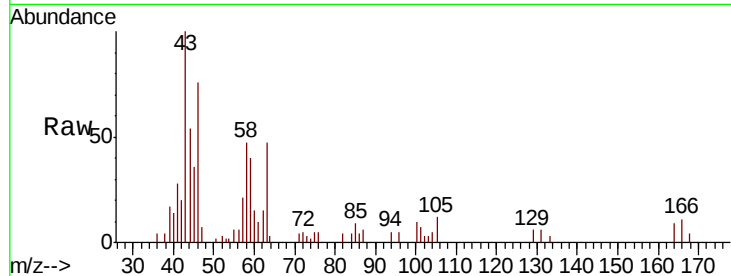




#48
2-Hexanone
Concen: 1.017 ug/L
RT: 8.70 min Scan# 2290
Delta R.T. -0.00 min
Lab File: VU038876.D
Acq: 13 Jun 2020 02:27

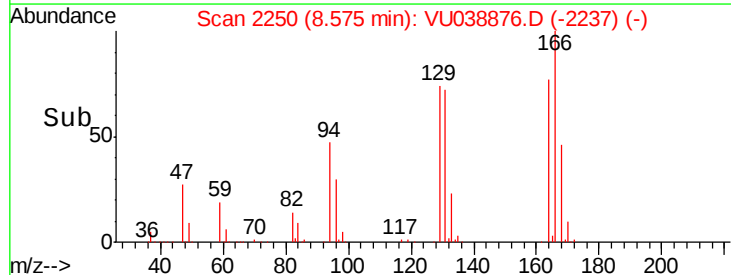
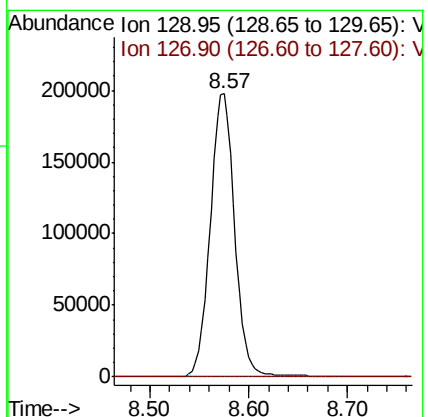
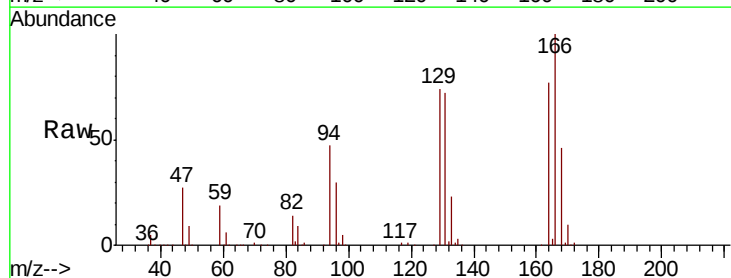
Instrument :
MSVOA_U
ClientSampleId :

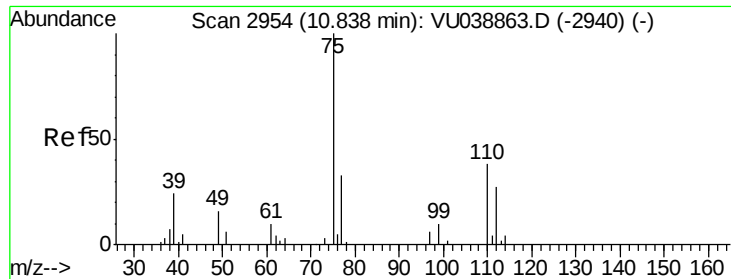
Tot Ion: 43 Resp: 9495
Ion Ratio Lower Upper
43 100
58 43.6 44.8 67.2#
57 21.0 16.2 24.2
100 9.9 10.6 16.0#



#49
Dibromochloromethane
Concen: 21.864 ug/L
RT: 8.57 min Scan# 2250
Delta R.T. -0.26 min
Lab File: VU038876.D
Acq: 13 Jun 2020 02:27

Tgt Ion: 129 Resp: 337928
Ion Ratio Lower Upper
129 100
127 0.1 55.5 103.1#

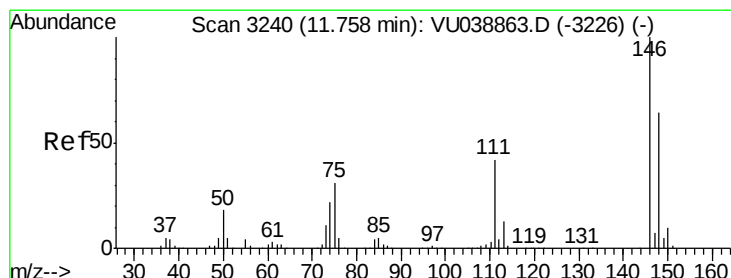
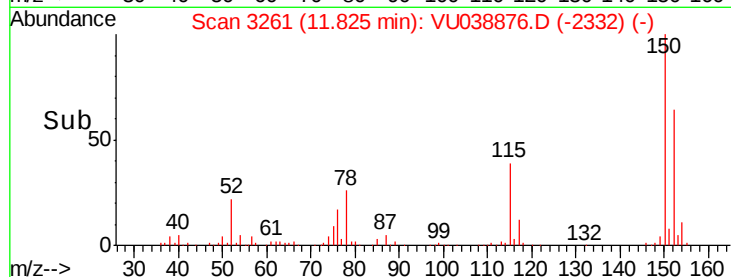
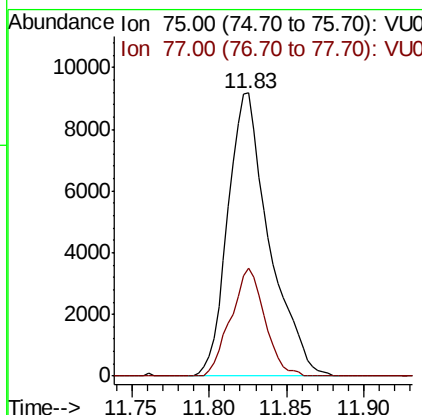
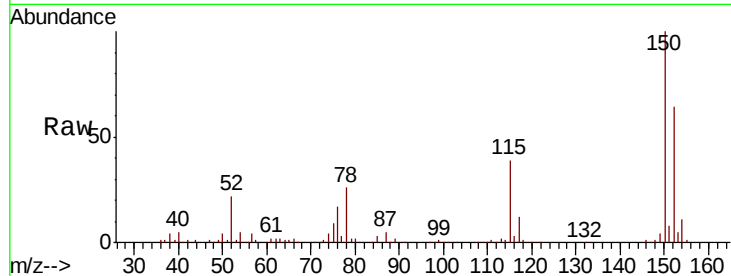




#59
 1,2,3-Trichloropropane
 Concen: 1.263 ug/L
 RT: 11.83 min Scan# 3261
 Delta R.T. 0.99 min
 Lab File: VU038876.D
 Acq: 13 Jun 2020 02:27

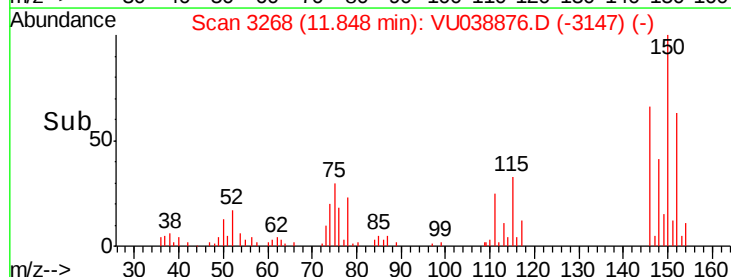
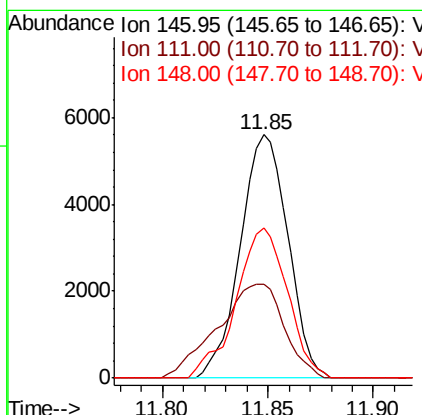
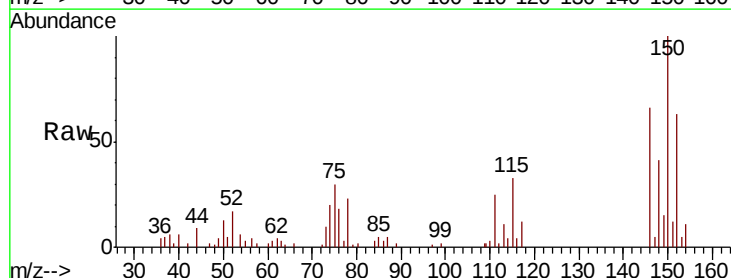
Instrument :
 MSVOA_U
 ClientSampled :

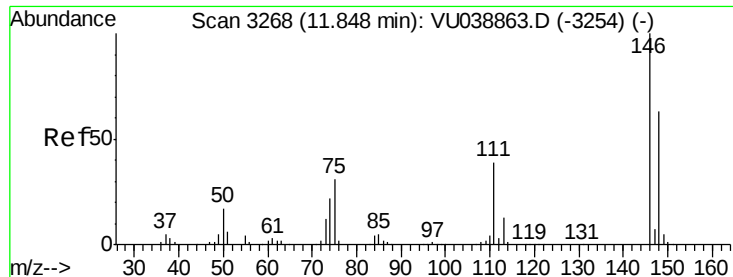
Tot Ion: 75 Resp: 17009
 Ion Ratio Lower Upper
 75 100
 77 31.3 25.8 38.8



#62
 1,3-Dichlorobenzene
 Concen: 0.251 ug/L
 RT: 11.85 min Scan# 3268
 Delta R.T. 0.09 min
 Lab File: VU038876.D
 Acq: 13 Jun 2020 02:27

Tgt Ion: 146 Resp: 8817
 Ion Ratio Lower Upper
 146 100
 111 38.7 29.5 54.9
 148 61.8 43.8 81.3





#63

1,4-Dichlorobenzene

Concen: 0.246 ug/L

RT: 11.85 min Scan# 3268

Delta R.T. 0.00 min

Lab File: VU038876.D

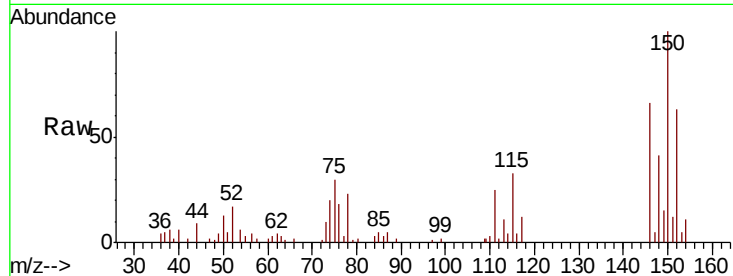
Acq: 13 Jun 2020 02:27

Instrument :

MSVOA_U

ClientSampleId :

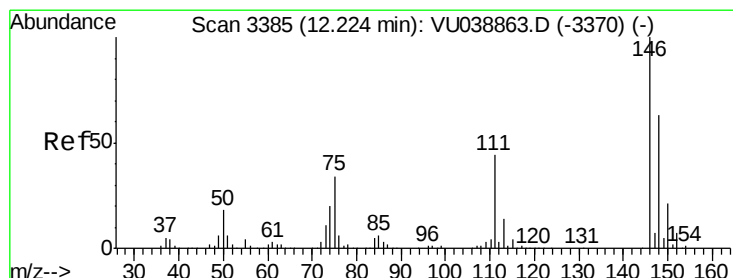
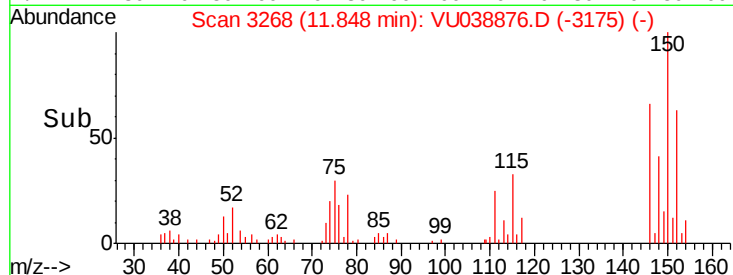
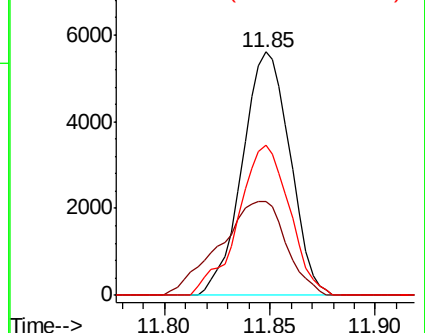
Tot Ion:146	Resp:	8817
Ion	Ratio	Lower Upper
146	100	
111	38.7	27.9 51.9
148	61.8	44.6 82.8



Abundance Ion 145.95 (145.65 to 146.65): V

Ion 111.00 (110.70 to 111.70): V

Ion 148.00 (147.70 to 148.70): V



#65

1,2-Dichlorobenzene

Concen: 0.208 ug/L

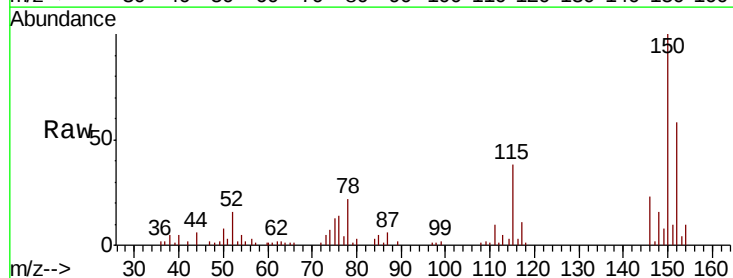
RT: 12.22 min Scan# 3385

Delta R.T. 0.00 min

Lab File: VU038876.D

Acq: 13 Jun 2020 02:27

Tgt Ion:146	Resp:	6859
Ion	Ratio	Lower Upper
146	100	
111	43.7	35.6 53.4
148	70.8	51.8 77.8



Abundance Ion 145.95 (145.65 to 146.65): V

Ion 111.00 (110.70 to 111.70): V

Ion 148.00 (147.70 to 148.70): V

