

Data Path : Z:\VOASRV\HPCHEM1\MSVOA U\DATA\VU042420\
 Data File : VU037879.D
 Acq On : 24 Apr 2020 18:19
 Operator : JC/MD
 Sample : L2395-13
 Misc : 5.0mL/MSVOA U/WATER
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_U
 ClientSampleId :

Quant Time: Apr 25 01:17:04 2020
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_U\METHOD\SOMULM042320WMA.M
 Quant Title : VOC Analysis
 QLast Update : Sat Apr 25 01:13:34 2020
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Difluorobenzene	6.29	114	613383	50.00	ug/L	0.00
28) Chlorobenzene-d5	9.44	117	637597	50.00	ug/L	0.00
60) 1,4-Dichlorobenzene-d4	11.83	152	311494	50.00	ug/L	0.00

System Monitoring Compounds

4) Vinyl Chloride-d3	1.61	65	244856	45.69	ug/L	0.00
Spiked Amount	50.000	Range	60 - 135	Recovery	=	91.38%
7) Chloroethane-d5	1.93	69	199286	47.98	ug/L	0.00
Spiked Amount	50.000	Range	70 - 130	Recovery	=	95.96%
11) 1,1-Dichloroethene-d2	2.60	63	6103577	703.60	ug/L	0.00
Spiked Amount	50.000	Range	60 - 125	Recovery	=	1407.20%#
21) 2-Butanone-d5	4.68	46	424938	100.07	ug/L	0.02
Spiked Amount	100.000	Range	40 - 130	Recovery	=	100.07%
24) Chloroform-d	5.11	84	379506	46.49	ug/L	0.00
Spiked Amount	50.000	Range	70 - 125	Recovery	=	92.98%
26) 1,2-Dichloroethane-d4	5.74	65	267335	47.30	ug/L	0.00
Spiked Amount	50.000	Range	70 - 125	Recovery	=	94.60%
32) Benzene-d6	5.77	84	849369	47.11	ug/L	0.00
Spiked Amount	50.000	Range	70 - 125	Recovery	=	94.22%
36) 1,2-Dichloropropane-d6	6.75	67	310980	51.57	ug/L	0.03
Spiked Amount	50.000	Range	70 - 120	Recovery	=	103.14%
41) Toluene-d8	7.93	98	841076	50.75	ug/L	0.00
Spiked Amount	50.000	Range	80 - 120	Recovery	=	101.50%
43) trans-1,3-Dichloropropene-	8.20	79	157643	50.79	ug/L	0.00
Spiked Amount	50.000	Range	60 - 125	Recovery	=	101.58%
47) 2-Hexanone-d5	8.65	63	350620	106.80	ug/L	0.00
Spiked Amount	100.000	Range	45 - 130	Recovery	=	106.80%
57) 1,1,2,2-Tetrachloroethane-	10.77	84	409255	48.77	ug/L	0.00
Spiked Amount	50.000	Range	65 - 120	Recovery	=	97.54%
64) 1,2-Dichlorobenzene-d4	12.20	152	299910	49.48	ug/L	0.00
Spiked Amount	50.000	Range	80 - 120	Recovery	=	98.96%

Target Compounds

Target Compounds	R.T.	QIon	Response	Conc	Units	Ovalue
5) Vinyl chloride	1.62	62	80199	13.179	ug/L	88
10) 1,1,2-Trichloro-1,2,2-trif	2.60	101	25792	6.840	ug/L #	33
12) 1,1-Dichloroethene	2.60	96	10786556	2896.560	ug/L #	49
13) Acetone	2.65	43	7383	2.914	ug/L	95
16) Methylene chloride	3.08	84	2742206	619.710	ug/L	91
17) trans-1,2-Dichloroethene	3.39	96	147440	35.410	ug/L	91
19) 1,1-Dichloroethane	3.92	63	960319	114.416	ug/L	99
22) 2-Butanone	4.76	43	8476	1.911	ug/L #	52
23) Bromochloromethane	5.02	128	6418	2.913	ug/L	90
25) Chloroform	5.13	83	101686	12.948	ug/L	98
27) 1,2-Dichloroethane	5.83	62	100551	14.949	ug/L	98
30) 1,1,1-Trichloroethane	5.36	97	17988782	2526.316	ug/L	98
33) Benzene	5.82	78	27594	1.426	ug/L	100
40) 4-Methyl-2-pentanone	7.82	43	23653	2.573	ug/L	99
42) Toluene	8.00	91	820298	40.429	ug/L	99
45) 1,1,2-Trichloroethane	8.42	97	505616	109.656	ug/L	100
46) Tetrachloroethene	8.57	164	34806	10.032	ug/L	98

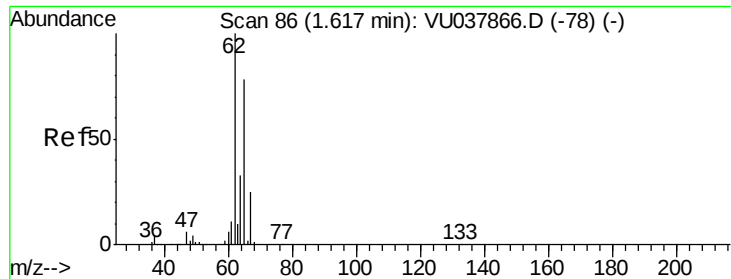
Data Path : Z:\VOASRV\HPCHEM1\MSVOA U\DATA\VU042420\
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 Quant Title : VOC Analysis
 QLast Update : Sat Apr 25 01:13:34 2020
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
49) Dibromochloromethane	8.57	129	32629	6.777	ug/L #	10
52) Ethylbenzene	9.59	91	1749413	76.992	ug/L	99
53) m,p-Xylene	9.71	106	1813481	211.980	ug/L	99
54) o-xylene	10.12	106	1599401	191.161	ug/L	99
55) Styrene	10.12	104	85184	5.920	ug/L #	1
56) Isopropylbenzene	10.50	105	53268	2.406	ug/L	99
59) 1,2,3-Trichloropropane	10.84	75	16844	2.372	ug/L	97
69) Naphthalene	14.11	128	70882	2.868	ug/L	98

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



#5

Vinyl chloride

Concen: 13.179 ug/L

RT: 1.62 min Scan# 86

Delta R.T. 0.00 min

Lab File: VU037879.D

Acq: 24 Apr 2020 18:19

Instrument :

MSVOA_U

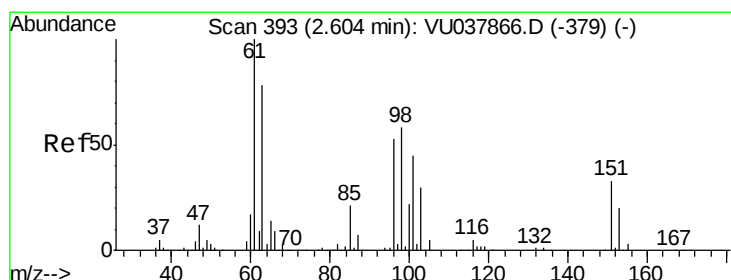
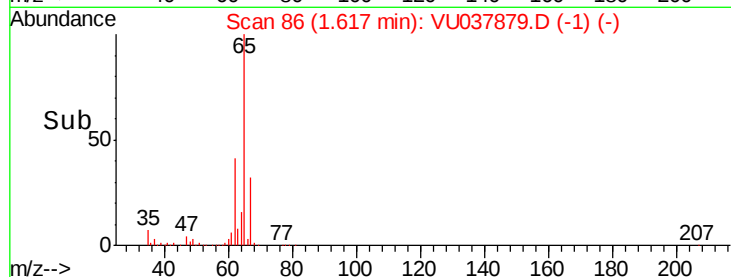
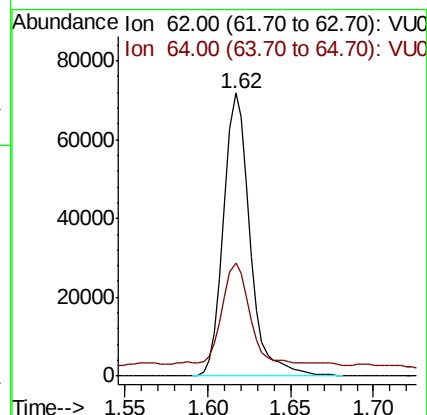
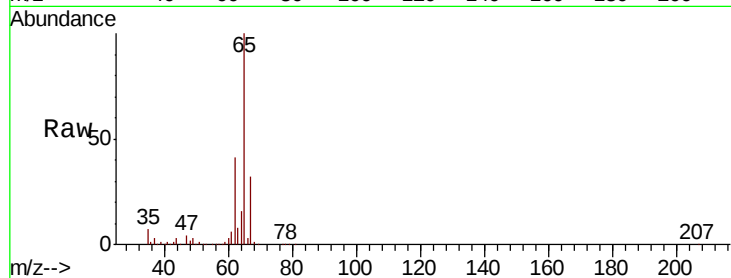
ClientSampleId :

Tot Ion: 62 Resp: 80199

Ion Ratio Lower Upper

62 100

64 40.0 23.2 43.0



#10

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

Concen: 6.840 ug/L

RT: 2.60 min Scan# 393

Delta R.T. 0.00 min

Lab File: VU037879.D

Acq: 24 Apr 2020 18:19

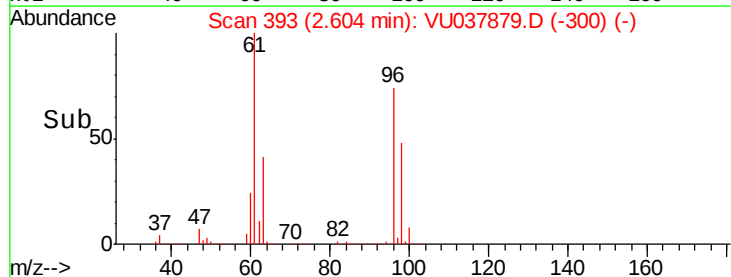
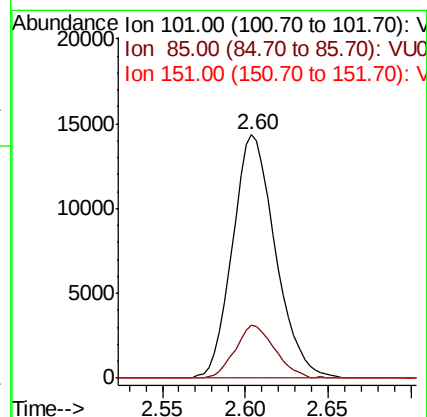
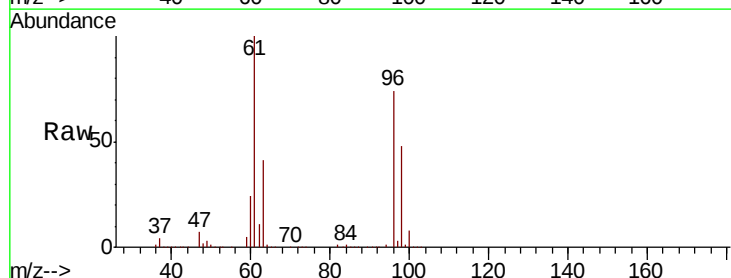
Tgt Ion: 101 Resp: 25792

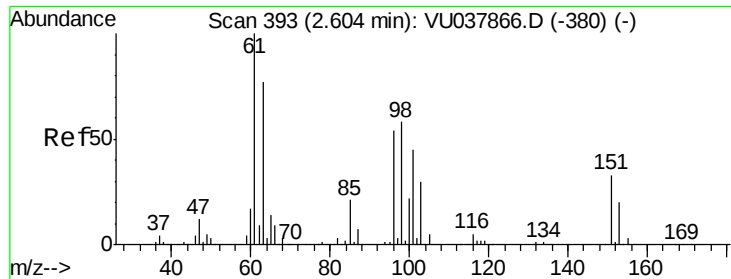
Ion Ratio Lower Upper

101 100

85 20.0 36.2 54.4#

151 0.0 55.5 83.3#





#12

1,1-Dichloroethene

Concen: 2896.560 ug/L

RT: 2.60 min Scan# 393

Delta R.T. 0.00 min

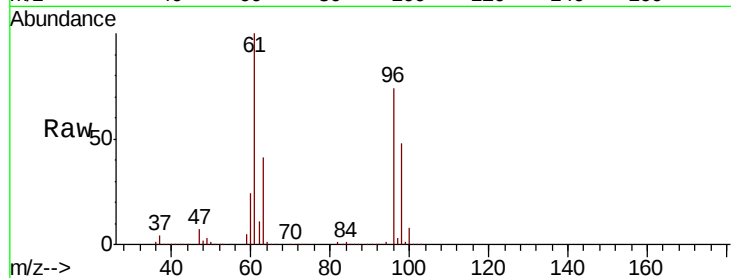
Lab File: VU037879.D

Acq: 24 Apr 2020 18:19

Instrument :
MSVOA_U
ClientSampleId :

Tot Ion: 96 Resp:10786556

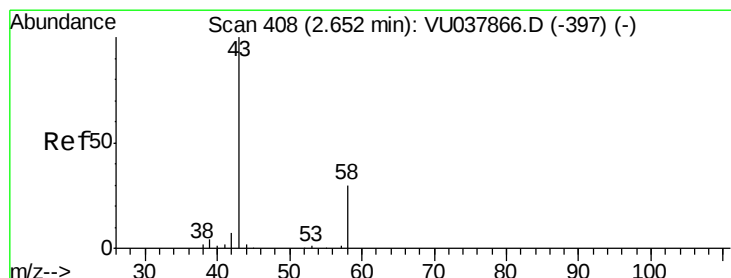
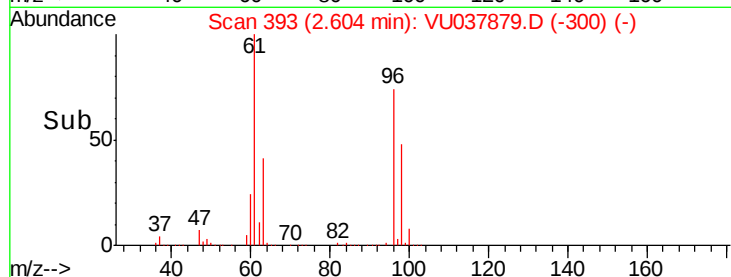
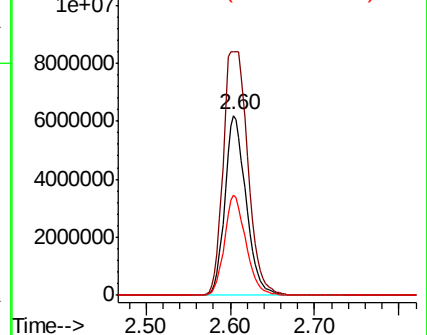
Ion	Ratio	Lower	Upper
96	100		
61	135.2	134.1	249.0
63	55.7	96.5	179.1#



Abundance Ion 96.00 (95.70 to 96.70): VU037866.D (-380) (-)

Ion 61.00 (60.70 to 61.70): VU037866.D (-380) (-)

Ion 63.00 (62.70 to 63.70): VU037866.D (-380) (-)



#13

Acetone

Concen: 2.914 ug/L

RT: 2.65 min Scan# 408

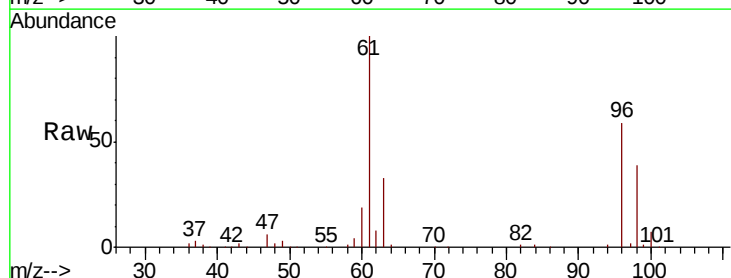
Delta R.T. 0.00 min

Lab File: VU037879.D

Acq: 24 Apr 2020 18:19

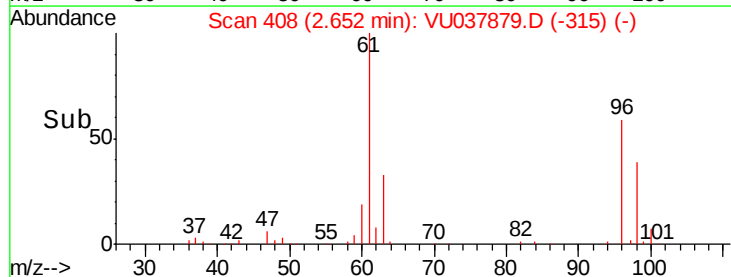
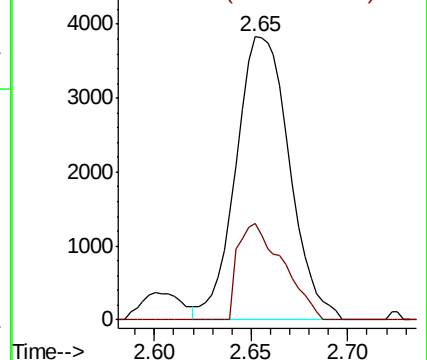
Tgt Ion: 43 Resp: 7383

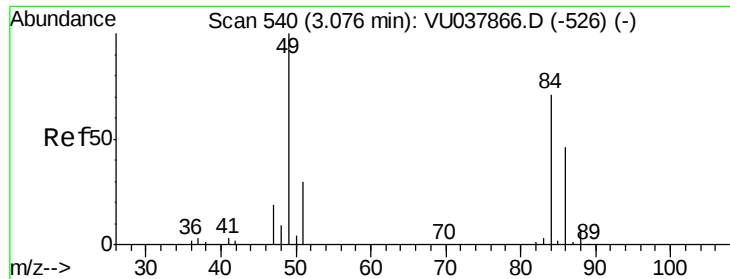
Ion	Ratio	Lower	Upper
43	100		
58	28.5	0.0	62.0



Abundance Ion 43.00 (42.70 to 43.70): VU037866.D (-397) (-)

Ion 58.00 (57.70 to 58.70): VU037866.D (-397) (-)

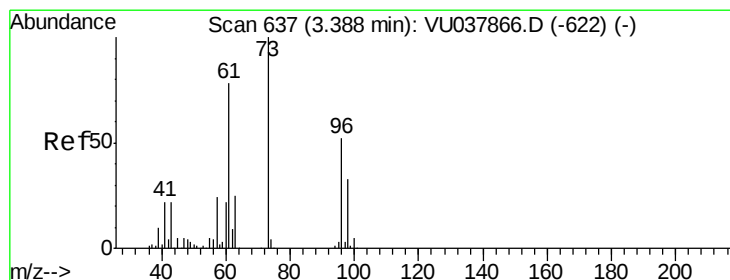
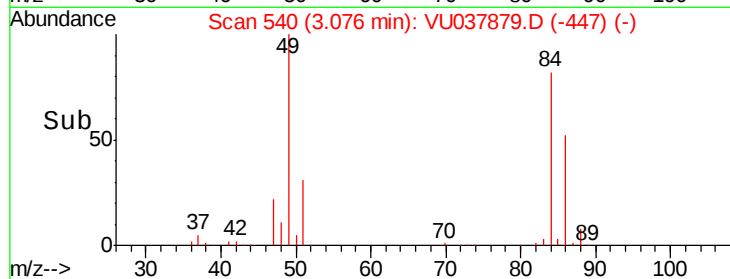
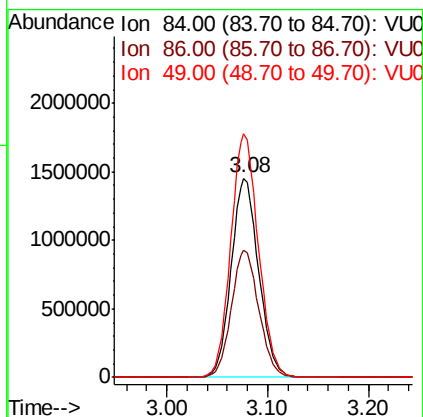
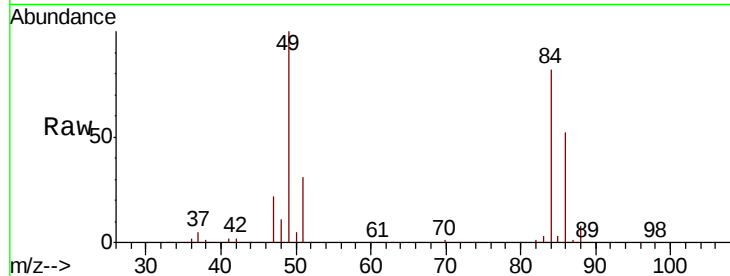




#16
Methvlene chloride
Concen: 619.710 ug/L
RT: 3.08 min Scan# 540
Delta R.T. 0.00 min
Lab File: VU037879.D
Acq: 24 Apr 2020 18:19

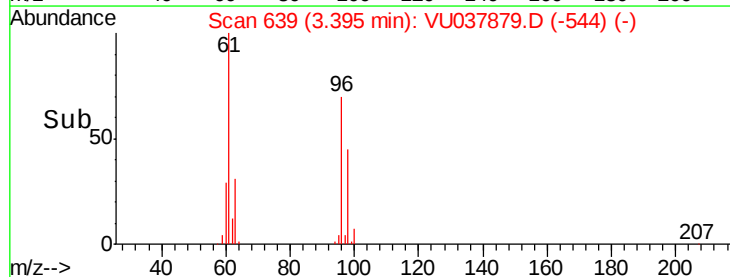
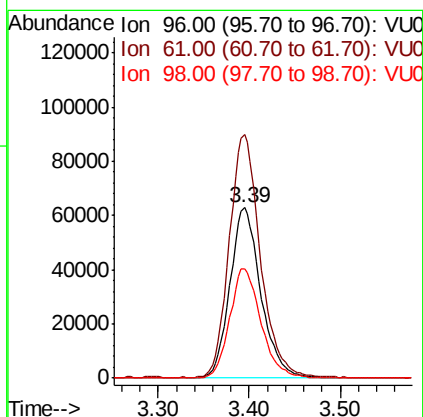
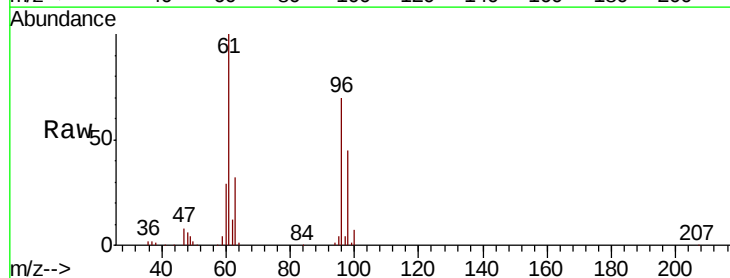
Instrument :
MSVOA_U
ClientSampled :

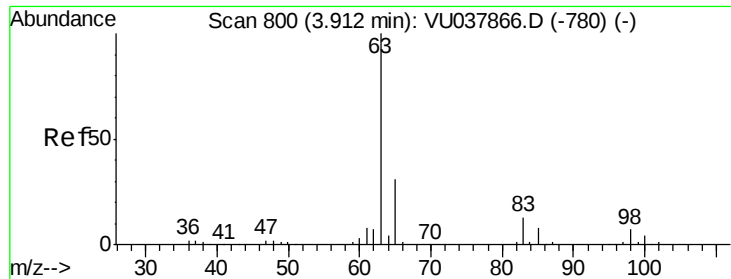
Tot Ion: 84 Resp: 2742206
Ion Ratio Lower Upper
84 100
86 64.0 43.5 80.7
49 122.3 95.1 176.7



#17
trans-1,2-Dichloroethene
Concen: 35.410 ug/L
RT: 3.39 min Scan# 639
Delta R.T. 0.01 min
Lab File: VU037879.D
Acq: 24 Apr 2020 18:19

Tgt Ion: 96 Resp: 147440
Ion Ratio Lower Upper
96 100
61 142.9 111.4 207.0
98 64.1 43.9 81.5

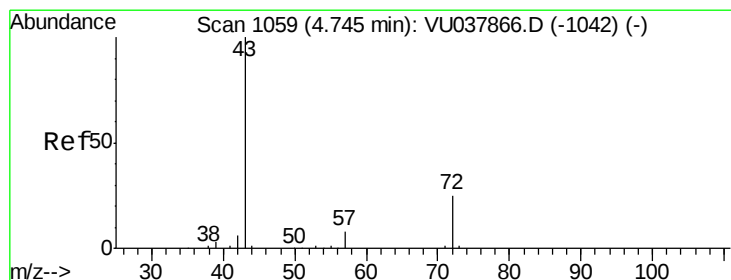
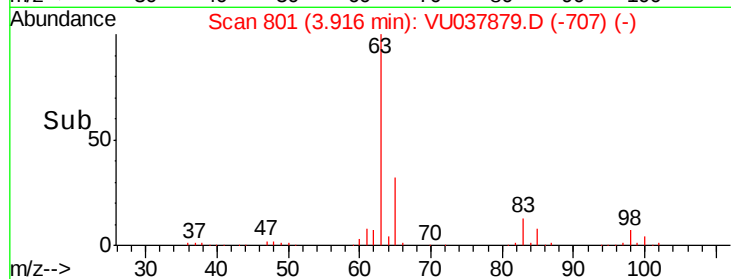
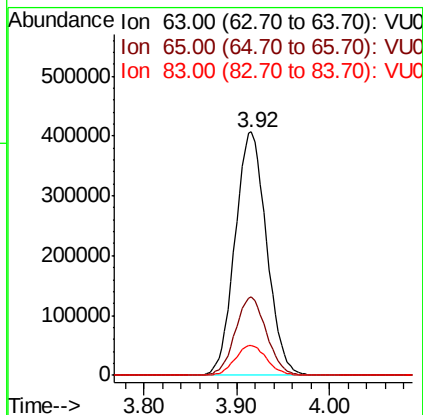
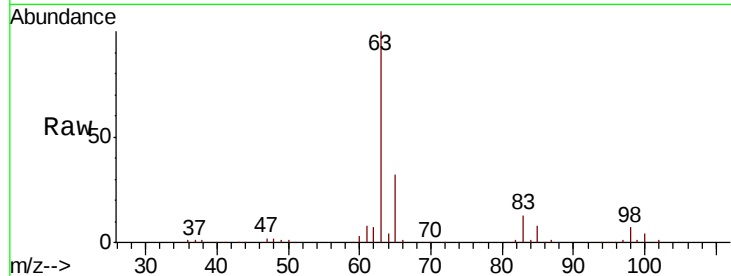




#19
 1,1-Dichloroethane
 Concen: 114.416 ug/L
 RT: 3.92 min Scan# 801
 Delta R.T. 0.00 min
 Lab File: VU037879.D
 Acq: 24 Apr 2020 18:19

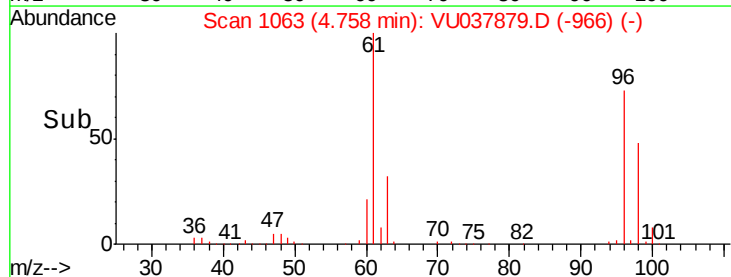
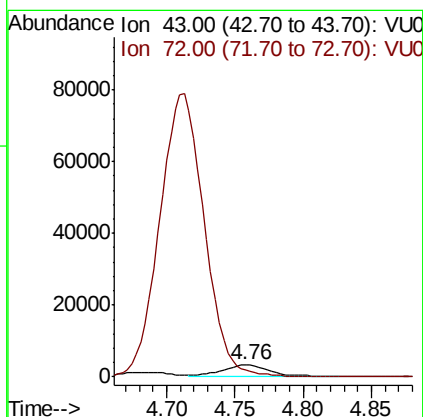
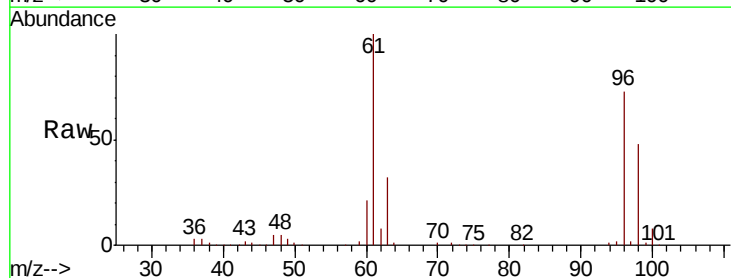
Instrument :
 MSVOA_U
 ClientSampleId :

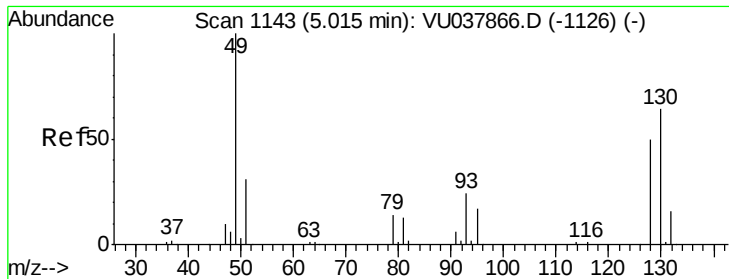
Tot Ion: 63 Resp: 960319
 Ion Ratio Lower Upper
 63 100
 65 32.0 22.2 41.2
 83 12.5 8.6 16.0



#22
 2-Butanone
 Concen: 1.911 ug/L
 RT: 4.76 min Scan# 1063
 Delta R.T. 0.01 min
 Lab File: VU037879.D
 Acq: 24 Apr 2020 18:19

Tgt Ion: 43 Resp: 8476
 Ion Ratio Lower Upper
 43 100
 72 0.8 12.6 37.6#





#23

Bromochloromethane

Concen: 2.913 ug/L

RT: 5.02 min Scan# 1145

Delta R.T. 0.01 min

Lab File: VU037879.D

Acq: 24 Apr 2020 18:19

Instrument :
MSVOA_U
ClientSampleId :

Tot Ion:128 Resp: 6418

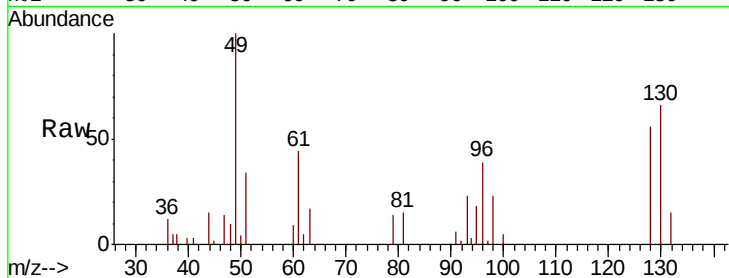
Ion Ratio Lower Upper

128 100

49 180.1 140.9 261.7

130 118.4 88.6 164.6

51 61.0 50.0 75.0

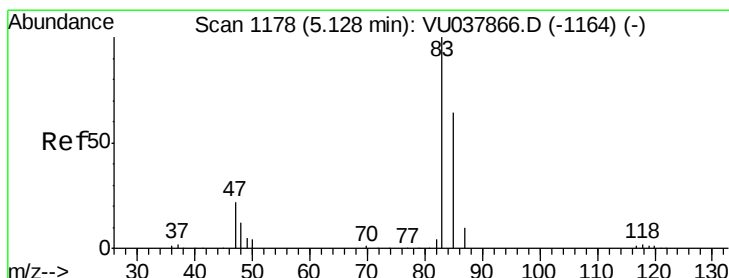
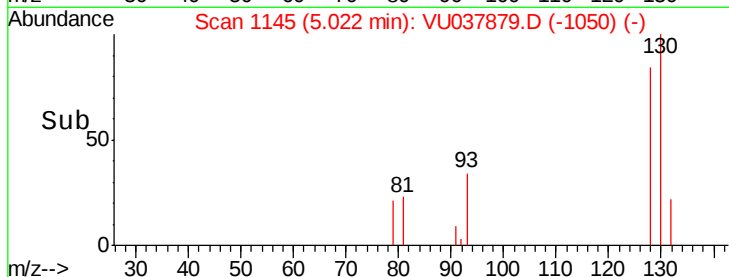
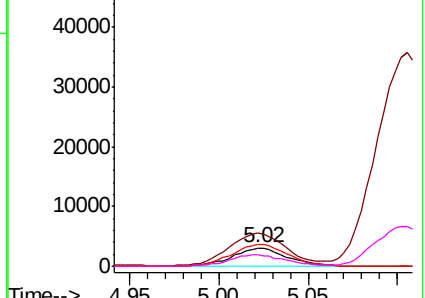


Abundance Ion 128.00 (127.70 to 128.70): V

Ion 49.00 (48.70 to 49.70): VU0

Ion 130.00 (129.70 to 130.70): V

Ion 51.00 (50.70 to 51.70): VU0



#25

Chloroform

Concen: 12.948 ug/L

RT: 5.13 min Scan# 1178

Delta R.T. 0.00 min

Lab File: VU037879.D

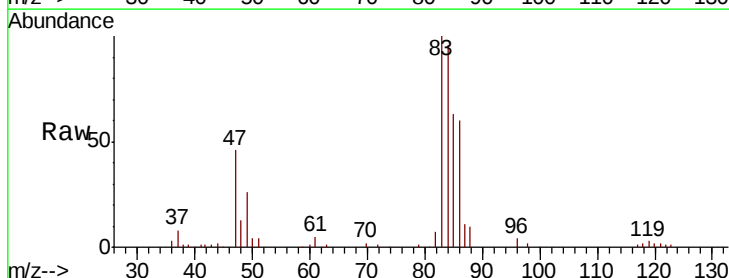
Acq: 24 Apr 2020 18:19

Tgt Ion: 83 Resp: 101686

Ion Ratio Lower Upper

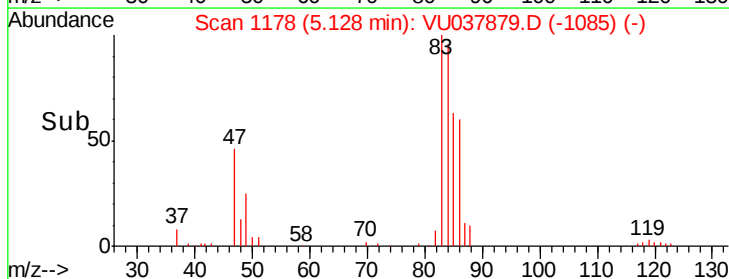
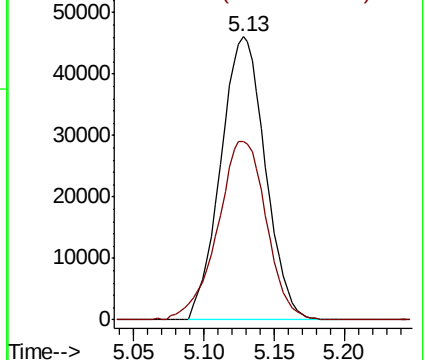
83 100

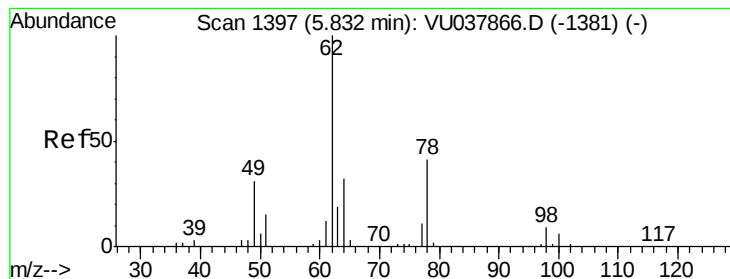
85 63.1 45.1 83.9



Abundance Ion 83.00 (82.70 to 83.70): VU0

Ion 85.00 (84.70 to 85.70): VU0





#27

1,2-Dichloroethane

Concen: 14.949 ug/L

RT: 5.83 min Scan# 1397

Delta R.T. 0.00 min

Lab File: VU037879.D

Acq: 24 Apr 2020 18:19

Instrument :

MSVOA_U

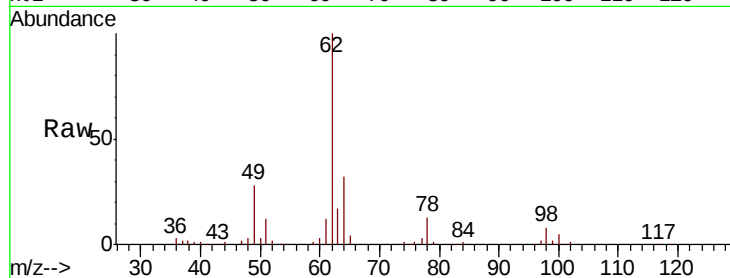
ClientSampled :

Tot Ion: 62 Resp: 100551

Ion Ratio Lower Upper

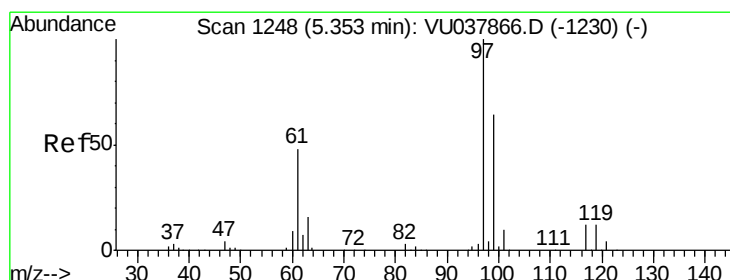
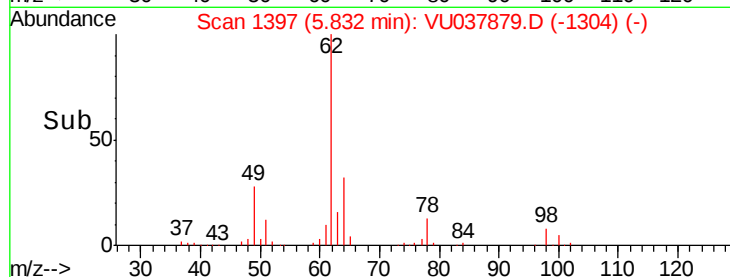
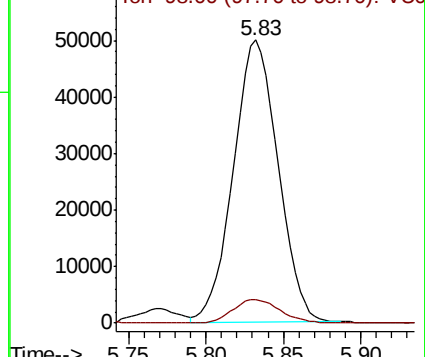
62 100

98 8.4 7.3 10.9



Abundance Ion 62.00 (61.70 to 62.70): VU037866.D (-1381) (-)

Ion 98.00 (97.70 to 98.70): VU037866.D (-1381) (-)



#30

1,1,1-Trichloroethane

Concen: 2526.316 ug/L

RT: 5.36 min Scan# 1250

Delta R.T. 0.01 min

Lab File: VU037879.D

Acq: 24 Apr 2020 18:19

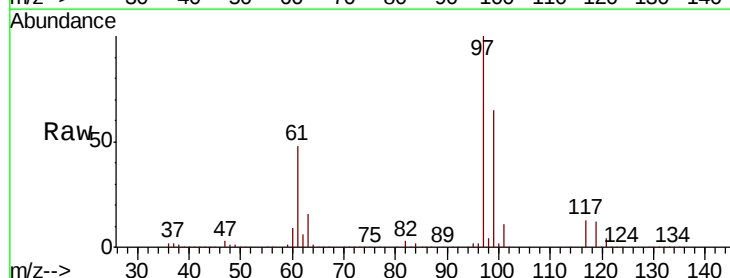
Tgt Ion: 97 Resp:17988782

Ion Ratio Lower Upper

97 100

99 64.8 50.7 76.1

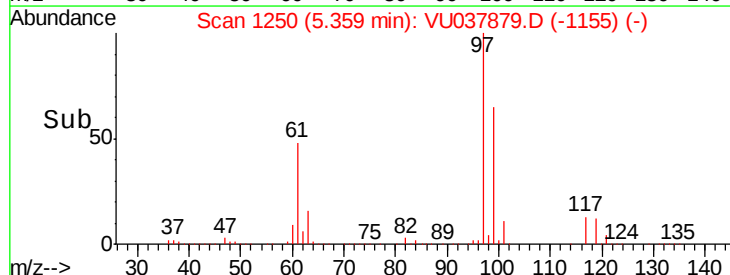
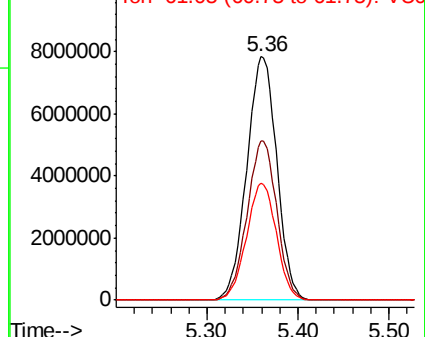
61 47.7 38.9 58.3

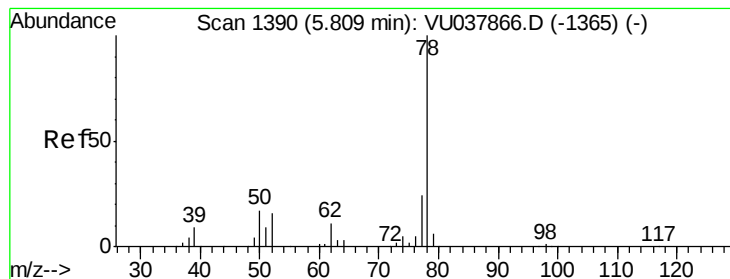


Abundance Ion 97.00 (96.70 to 97.70): VU037866.D (-1230) (-)

Ion 99.00 (98.70 to 99.70): VU037866.D (-1230) (-)

Ion 61.05 (60.75 to 61.75): VU037866.D (-1230) (-)





#33

Benzene

Concen: 1.426 ug/L

RT: 5.82 min Scan# 1392

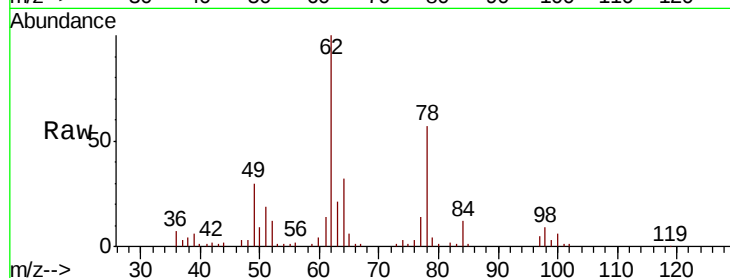
Delta R.T. 0.01 min

Lab File: VU037879.D

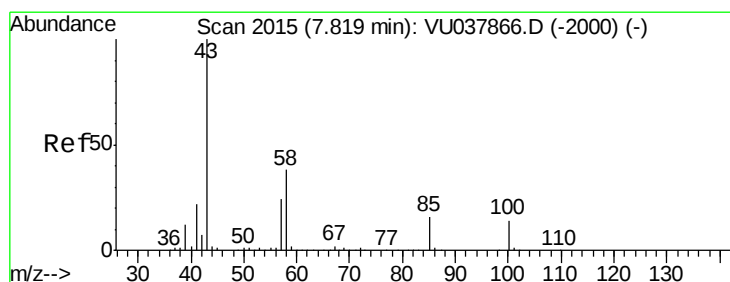
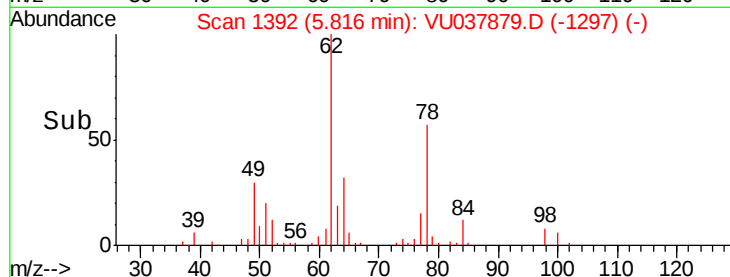
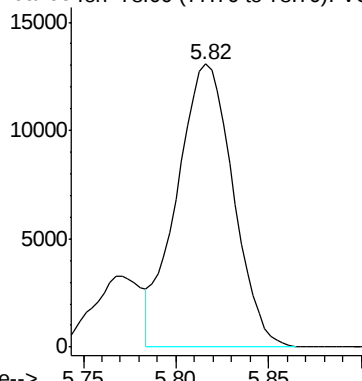
Acq: 24 Apr 2020 18:19

Instrument :
MSVOA_U
ClientSampled :

Tgt Ion: 78 Resp: 27594



Abundance Ion 78.00 (77.70 to 78.70): VU0



#40

4-Methyl-2-pentanone

Concen: 2.573 ug/L

RT: 7.82 min Scan# 2016

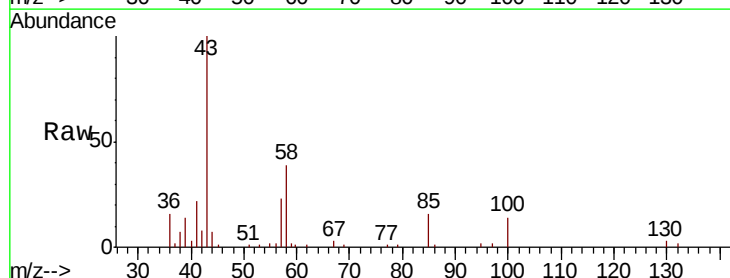
Delta R.T. 0.00 min

Lab File: VU037879.D

Acq: 24 Apr 2020 18:19

Tgt Ion: 43 Resp: 23653

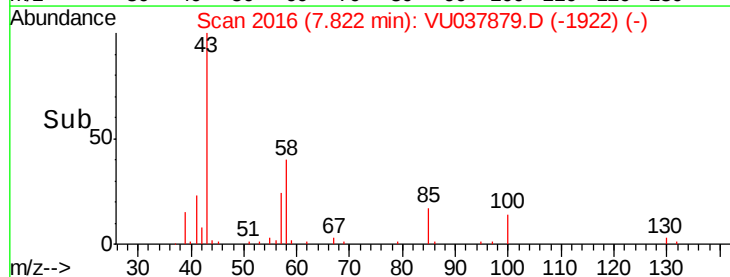
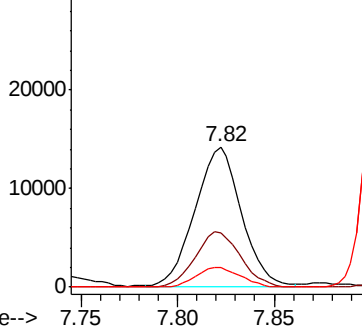
Ion	Ratio	Lower	Upper
43	100		
58	38.6	30.2	45.2
100	13.4	10.9	16.3

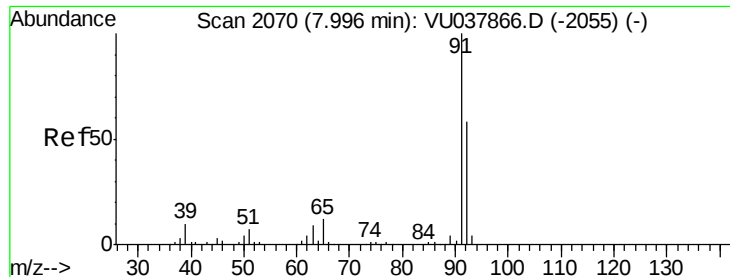


Abundance Ion 43.00 (42.70 to 43.70): VU0

Ion 58.00 (57.70 to 58.70): VU0

Ion 100.00 (99.70 to 100.70): VU0





#42

Toluene

Concen: 40.429 ug/L

RT: 8.00 min Scan# 2070

Delta R.T. 0.00 min

Lab File: VU037879.D

Acq: 24 Apr 2020 18:19

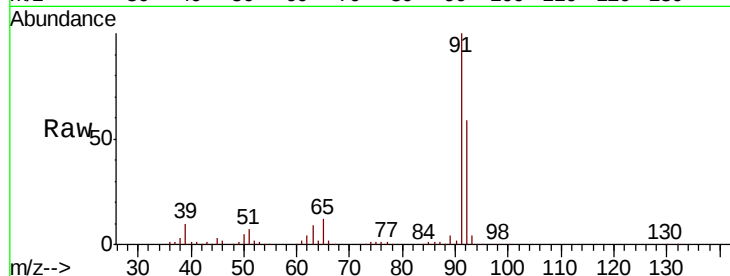
Instrument :
MSVOA_U
ClientSampled :

Tot Ion: 91 Resp: 820298

Ion Ratio Lower Upper

91 100

92 59.4 41.2 76.6



Abundance Ion 91.00 (90.70 to 91.70): VU037866.D (-2055) (-)

Ion 92.00 (91.70 to 92.70): VU037866.D (-2055) (-)

8.00

500000

400000

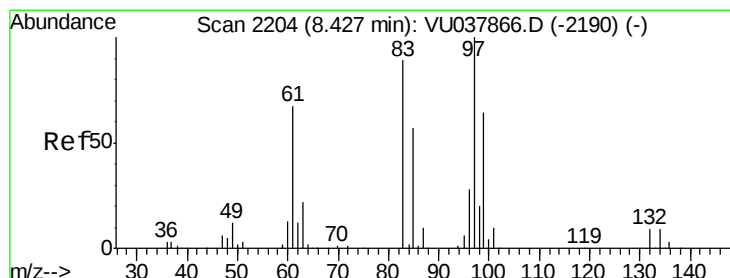
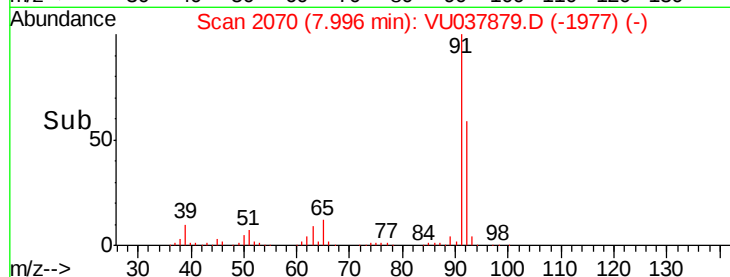
300000

200000

100000

0

Time--> 7.90 7.95 8.00 8.05



#45

1,1,2-Trichloroethane

Concen: 109.656 ug/L

RT: 8.42 min Scan# 2203

Delta R.T. -0.00 min

Lab File: VU037879.D

Acq: 24 Apr 2020 18:19

Tgt Ion: 97 Resp: 505616

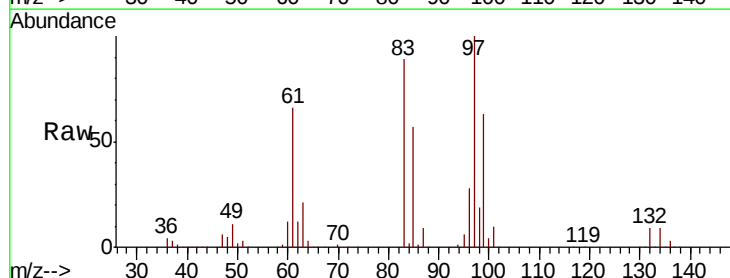
Ion Ratio Lower Upper

97 100

99 63.0 44.0 81.6

83 89.2 62.6 116.2

85 57.0 40.0 74.4



Abundance Ion 97.00 (96.70 to 97.70): VU037866.D (-2190) (-)

Ion 99.00 (98.70 to 99.70): VU037866.D (-2190) (-)

Ion 83.00 (82.70 to 83.70): VU037866.D (-2190) (-)

Ion 85.00 (84.70 to 85.70): VU037866.D (-2190) (-)

8.42

400000

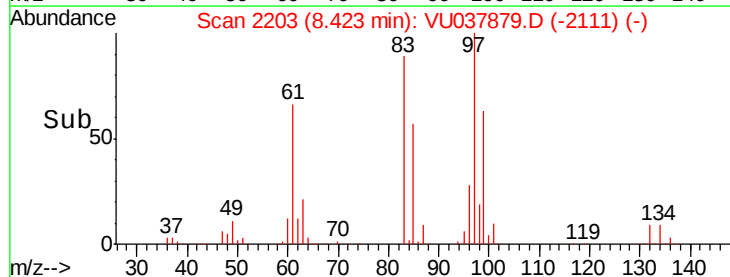
300000

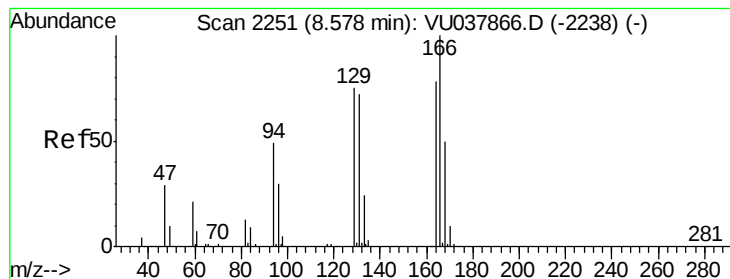
200000

100000

0

Time--> 8.35 8.40 8.45 8.50





#46

Tetrachloroethene

Concen: 10.032 ug/L

RT: 8.57 min Scan# 2250

Delta R.T. -0.00 min

Lab File: VU037879.D

Acq: 24 Apr 2020 18:19

Instrument :

MSVOA_U

ClientSampleId :

Tot Ion:164 Resp: 34806

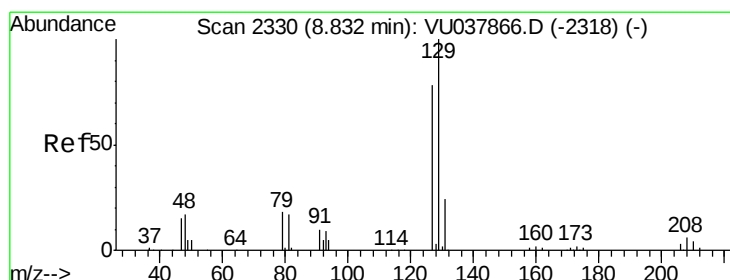
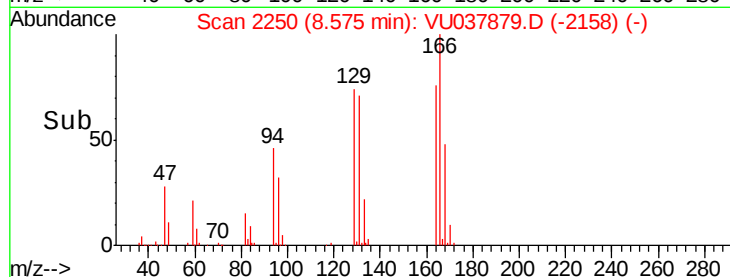
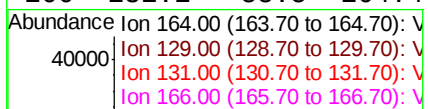
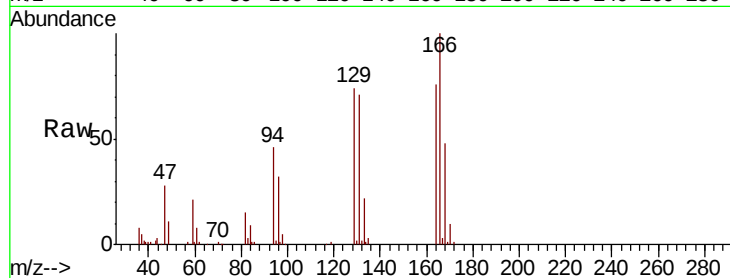
Ion Ratio Lower Upper

164 100

129 97.3 67.3 125.1

131 92.7 64.8 120.4

166 131.1 88.5 164.4



#49

Dibromochloromethane

Concen: 6.777 ug/L

RT: 8.57 min Scan# 2250

Delta R.T. -0.26 min

Lab File: VU037879.D

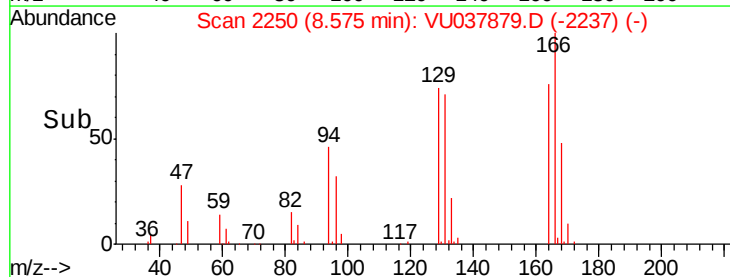
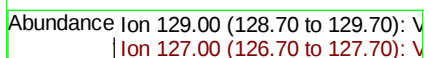
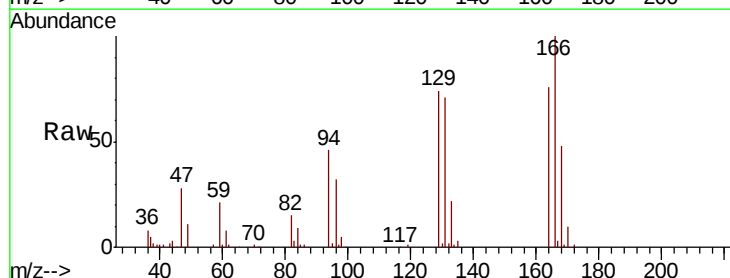
Acq: 24 Apr 2020 18:19

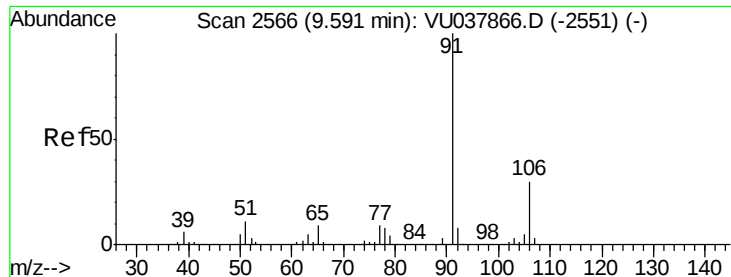
Tgt Ion:129 Resp: 32629

Ion Ratio Lower Upper

129 100

127 0.0 54.7 101.5#

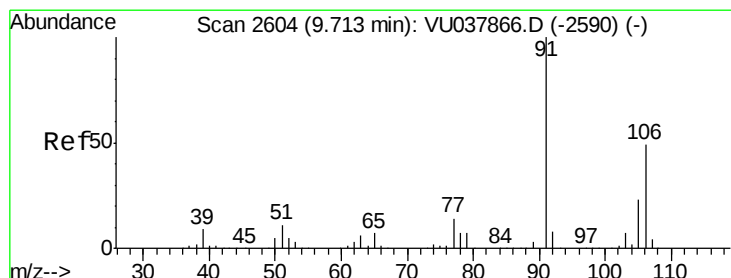
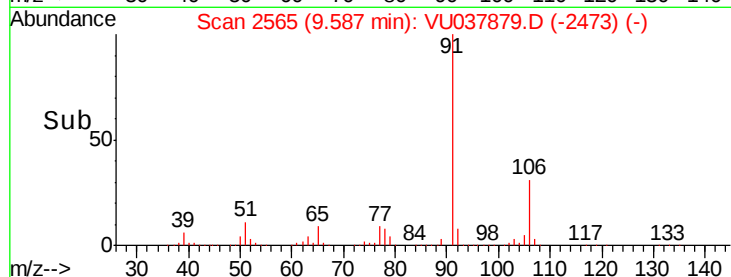
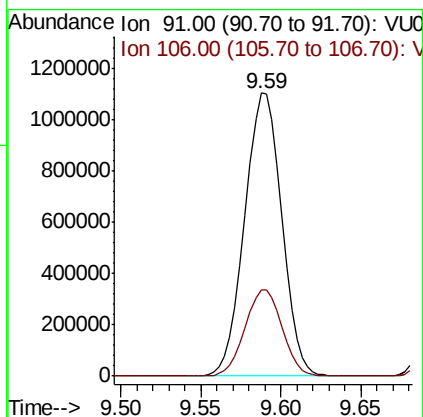
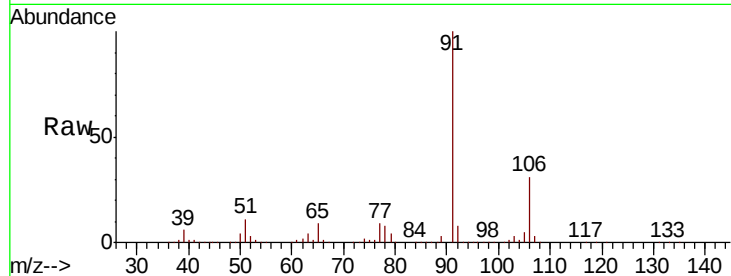




#52
Ethylbenzene
Concen: 76.992 ug/L
RT: 9.59 min Scan# 2565
Delta R.T. -0.00 min
Lab File: VU037879.D
Acq: 24 Apr 2020 18:19

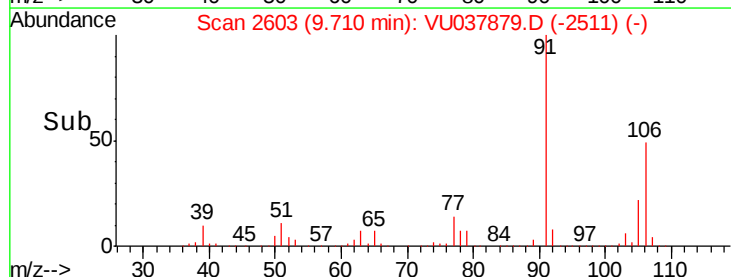
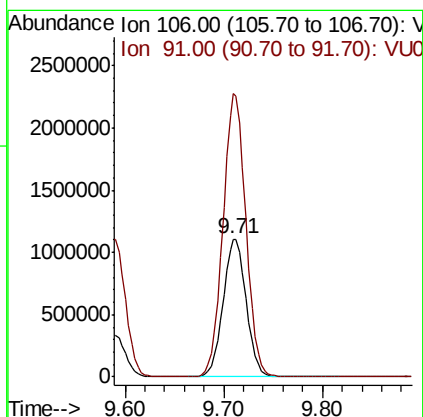
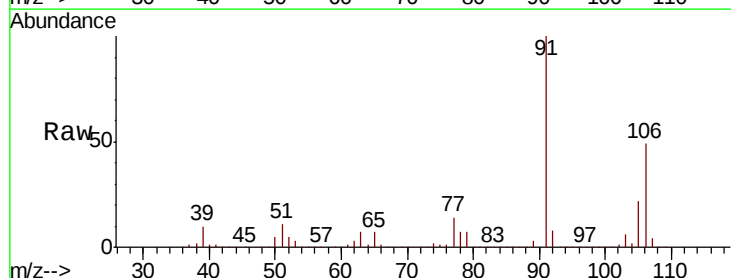
Instrument :
MSVOA_U
ClientSampled :

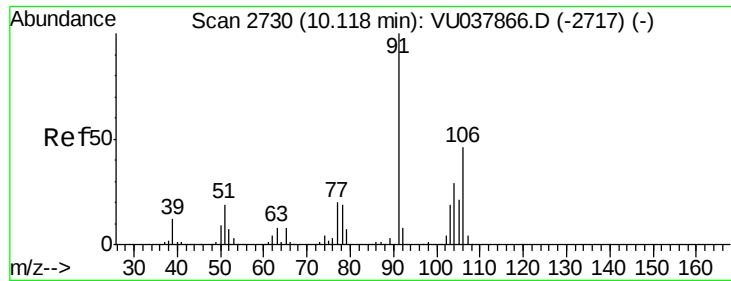
Tot Ion: 91 Resp: 1749413
Ion Ratio Lower Upper
91 100
106 30.6 21.1 39.1



#53
m,p-Xylene
Concen: 211.980 ug/L
RT: 9.71 min Scan# 2603
Delta R.T. -0.00 min
Lab File: VU037879.D
Acq: 24 Apr 2020 18:19

Tgt Ion: 106 Resp: 1813481
Ion Ratio Lower Upper
106 100
91 205.3 142.8 265.2





#54

o-xylene

Concen: 191.161 ug/L

RT: 10.12 min Scan# 2730

Delta R.T. 0.00 min

Lab File: VU037879.D

Acq: 24 Apr 2020 18:19

Instrument :

MSVOA_U

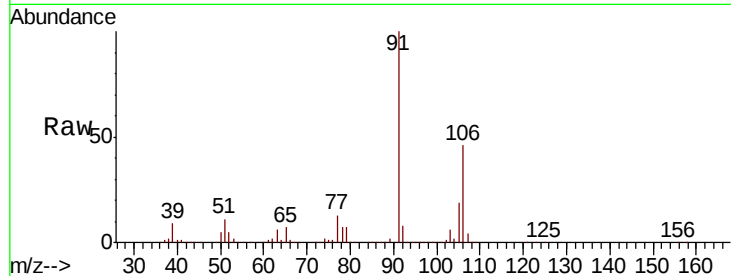
ClientSampled :

Tot Ion:106 Resp: 1599401

Ion Ratio Lower Upper

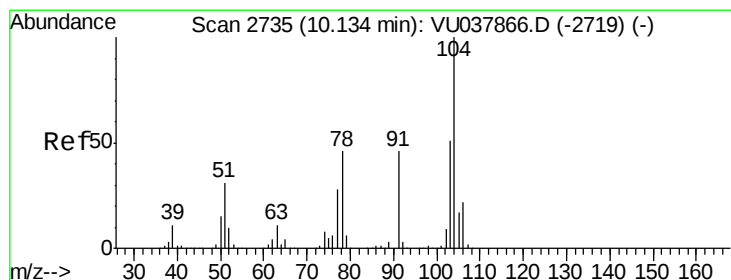
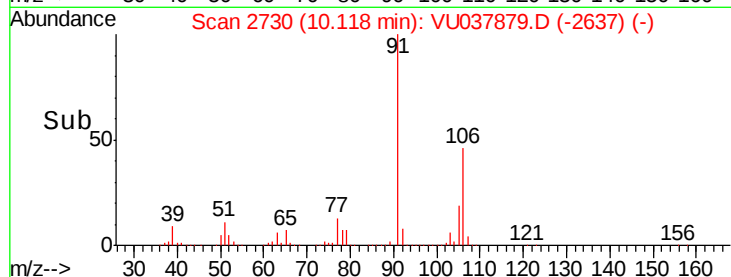
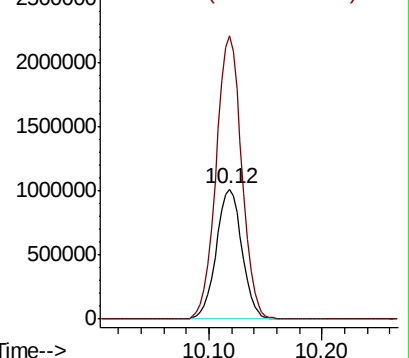
106 100

91 217.2 150.6 279.6



Abundance Ion 106.00 (105.70 to 106.70): V

Ion 91.00 (90.70 to 91.70): VU0



#55

Styrene

Concen: 5.920 ug/L

RT: 10.12 min Scan# 2730

Delta R.T. -0.02 min

Lab File: VU037879.D

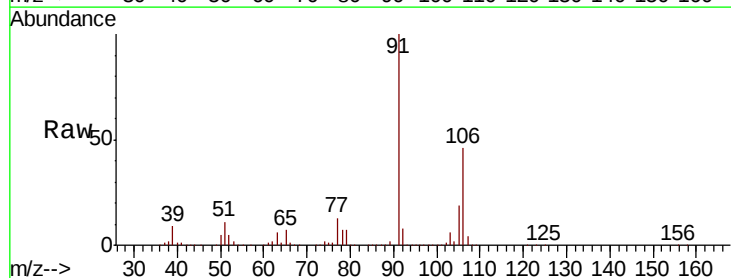
Acq: 24 Apr 2020 18:19

Tgt Ion:104 Resp: 85184

Ion Ratio Lower Upper

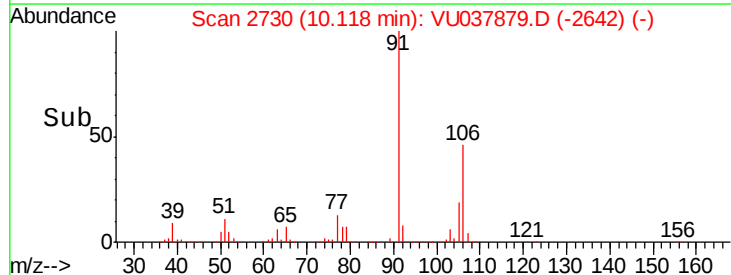
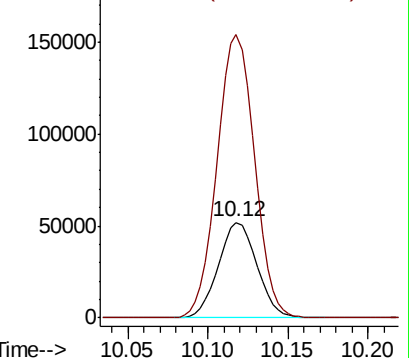
104 100

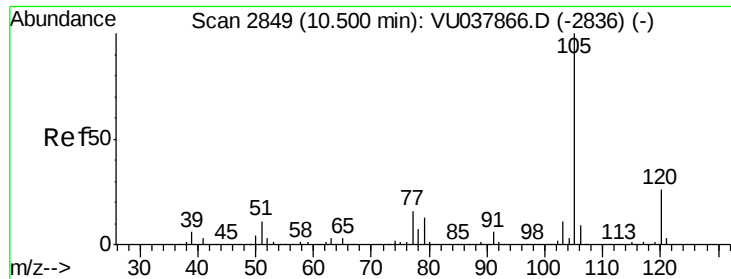
78 295.6 32.6 60.6#



Abundance Ion 104.00 (103.70 to 104.70): V

Ion 78.00 (77.70 to 78.70): VU0





#56

Isopropylbenzene

Concen: 2.406 ug/L

RT: 10.50 min Scan# 2849

Delta R.T. 0.00 min

Lab File: VU037879.D

Acq: 24 Apr 2020 18:19

Instrument :

MSVOA_U

ClientSampleId :

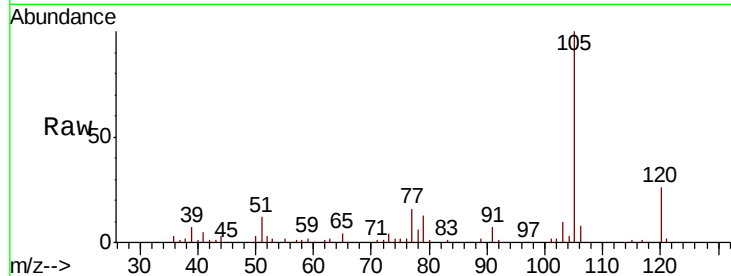
Tot Ion:105 Resp: 53268

Ion Ratio Lower Upper

105 100

120 26.3 20.6 31.0

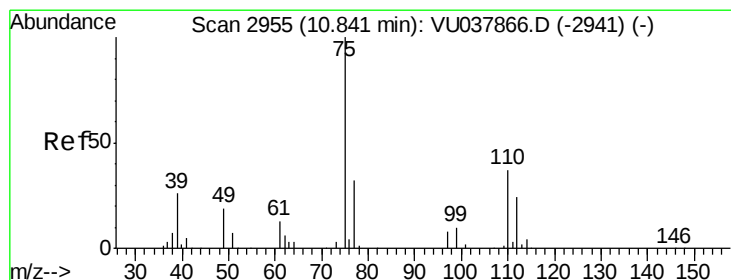
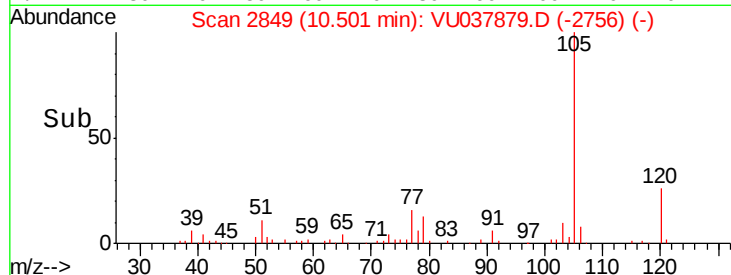
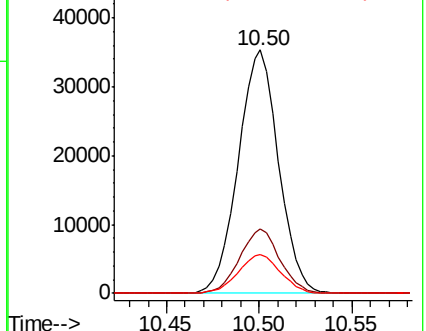
77 16.6 13.0 19.4



Abundance Ion 105.00 (104.70 to 105.70): V

Ion 120.00 (119.70 to 120.70): V

Ion 77.00 (76.70 to 77.70): VU



#59

1,2,3-Trichloropropane

Concen: 2.372 ug/L

RT: 10.84 min Scan# 2954

Delta R.T. -0.00 min

Lab File: VU037879.D

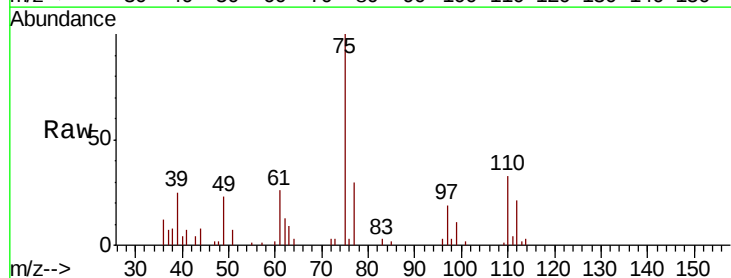
Acq: 24 Apr 2020 18:19

Tgt Ion: 75 Resp: 16844

Ion Ratio Lower Upper

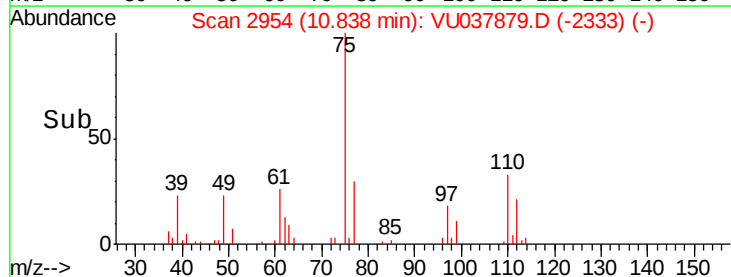
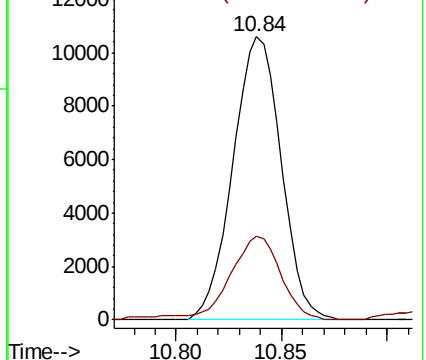
75 100

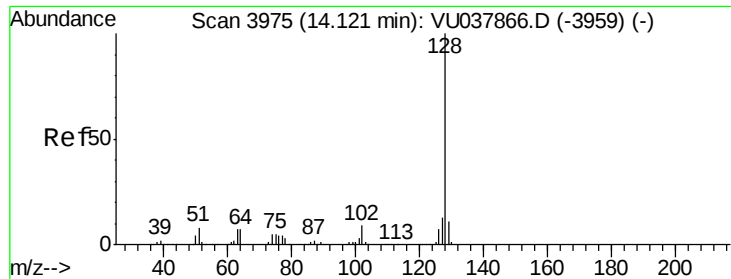
77 30.3 25.8 38.6



Abundance Ion 75.00 (74.70 to 75.70): VU

Ion 77.00 (76.70 to 77.70): VU





#69

Naphthalene

Concen: 2.868 ug/L

RT: 14.11 min Scan# 3972

Delta R.T. -0.01 min

Lab File: VU037879.D

Acq: 24 Apr 2020 18:19

Instrument :

MSVOA_U

ClientSampleId :

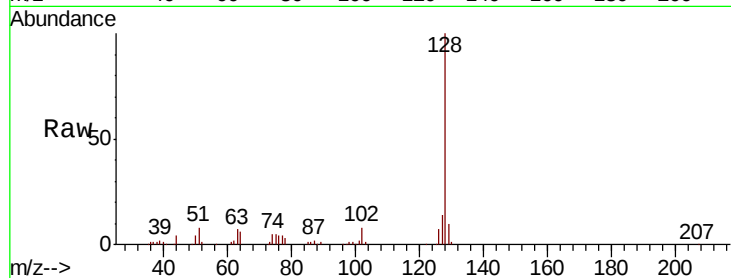
Tot Ion:128 Resp: 70882

Ion Ratio Lower Upper

128 100

127 13.5 10.5 15.7

129 11.7 8.6 13.0



Abundance

Ion 128.00 (127.70 to 128.70): V

Ion 127.00 (126.70 to 127.70): V

Ion 129.00 (128.70 to 129.70): V

