

Data Path : Z:\VOASRV\HPCHEM1\MSVOA U\DATA\VU042420\
 Data File : VU037877.D
 Acq On : 24 Apr 2020 17:33
 Operator : JC/MD
 Sample : L2395-11
 Misc : 5.0mL/MSVOA U/WATER
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_U
 ClientSampleId :
 C0D96

Manual Integrations
 APPROVED

MMDadoda
 4/28/2020 12:02:06 PM

Quant Time: Apr 25 03:04:28 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	6.28	114	594582	50.00	ug/L	0.00
28) Chlorobenzene-d5	9.44	117	593995	50.00	ug/L	0.00
60) 1,4-Dichlorobenzene-d4	11.83	152	257016	50.00	ug/L	0.00

System Monitoring Compounds

4) Vinyl Chloride-d3	1.61	65	362721	69.82	ug/L	0.00
Spiked Amount	50.000	Range	60 - 135	Recovery	=	139.64%#
7) Chloroethane-d5	1.93	69	187762	46.63	ug/L	0.00
Spiked Amount	50.000	Range	70 - 130	Recovery	=	93.26%
11) 1,1-Dichloroethene-d2	2.61	63	1423466	169.28	ug/L	0.01
Spiked Amount	50.000	Range	60 - 125	Recovery	=	338.56%#
21) 2-Butanone-d5	4.70	46	509903	123.87	ug/L	0.04
Spiked Amount	100.000	Range	40 - 130	Recovery	=	123.87%
24) Chloroform-d	5.11	84	366054	46.26	ug/L	0.00
Spiked Amount	50.000	Range	70 - 125	Recovery	=	92.52%
26) 1,2-Dichloroethane-d4	5.74	65	259657	47.39	ug/L	0.00
Spiked Amount	50.000	Range	70 - 125	Recovery	=	94.78%
32) Benzene-d6	5.76	84	793835	47.26	ug/L	0.00
Spiked Amount	50.000	Range	70 - 125	Recovery	=	94.52%
36) 1,2-Dichloropropane-d6	6.73	67	267945	47.69	ug/L	0.00
Spiked Amount	50.000	Range	70 - 120	Recovery	=	95.38%
41) Toluene-d8	7.92	98	748905	48.51	ug/L	0.00
Spiked Amount	50.000	Range	80 - 120	Recovery	=	97.02%
43) trans-1,3-Dichloropropene-	8.20	79	138823	48.01	ug/L	0.00
Spiked Amount	50.000	Range	60 - 125	Recovery	=	96.02%
47) 2-Hexanone-d5	8.65	63	372029	121.64	ug/L	0.00
Spiked Amount	100.000	Range	45 - 130	Recovery	=	121.64%
57) 1,1,2,2-Tetrachloroethane-	10.77	84	177209	22.67	ug/L	0.00
Spiked Amount	50.000	Range	65 - 120	Recovery	=	45.34%#
64) 1,2-Dichlorobenzene-d4	12.20	152	276046	55.20	ug/L	0.00
Spiked Amount	50.000	Range	80 - 120	Recovery	=	110.40%

Target Compounds

					Ovalue
3) Chloromethane	1.54	50	8041	1.504	ug/L 97
5) Vinyl chloride	1.61	62	12144086m	2058.697	ug/L
8) Chloroethane	1.95	64	1481914	447.122	ug/L 99
12) 1,1-Dichloroethene	2.61	96	1941203	537.763	ug/L # 72
13) Acetone	2.66	43	534092	217.470	ug/L 99
14) Carbon disulfide	2.83	76	102867	7.968	ug/L 100
15) Methyl Acetate	2.98	43	49569	8.351	ug/L 98
16) Methylene chloride	3.08	84	14382974	3353.183	ug/L 84
17) trans-1,2-Dichloroethene	3.40	96	425527	105.429	ug/L 96
19) 1,1-Dichloroethane	3.92	63	9843179	1209.832	ug/L 100
20) cis-1,2-Dichloroethene	4.70	96	30196229m	6832.970	ug/L
22) 2-Butanone	4.75	43	1006153m	233.965	ug/L
23) Bromochloromethane	5.02	128	16173	7.574	ug/L 97
25) Chloroform	5.13	83	32335	4.247	ug/L 94
27) 1,2-Dichloroethane	5.83	62	145424	22.304	ug/L 100
30) 1,1,1-Trichloroethane	5.36	97	18275568	2754.991	ug/L 99
33) Benzene	5.81	78	85786	4.758	ug/L 100

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Quant Time: Apr 25 03:04:28 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)
34) Trichloroethene	6.57	95	27027654m	6111.665	ug/L	
40) 4-Methyl-2-pentanone	7.82	43	194340	22.694	ug/L	99
42) Toluene	7.99	91	2064529	109.220	ug/L	100
45) 1,1,2-Trichloroethane	8.42	97	146038	33.997	ug/L	100
46) Tetrachloroethene	8.57	164	7611	2.355	ug/L	96
48) 2-Hexanone	8.71	43	51571	7.617	ug/L	95
52) Ethylbenzene	9.59	91	7144520	337.514	ug/L	99
53) m,p-Xylene	9.71	106	9412929	1181.055	ug/L	60
54) o-xylene	10.12	106	2963060	380.141	ug/L	100
56) Isopropylbenzene	10.50	105	671732	32.563	ug/L	100

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

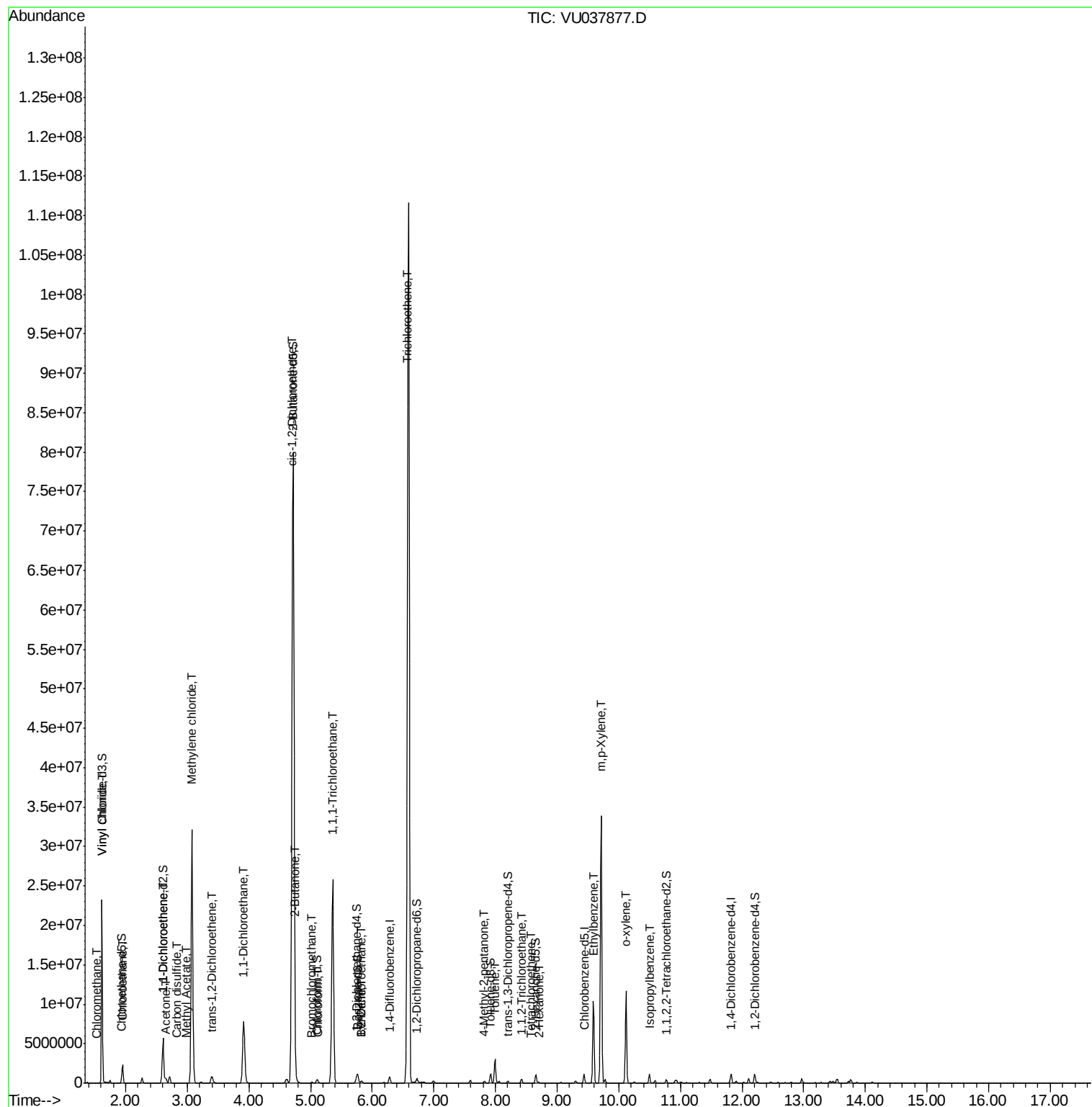
Data Path : Z:\V0ASRV\HPCHEM1\MSVOA U\DATA\VU042420\
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Operator : JC/MD
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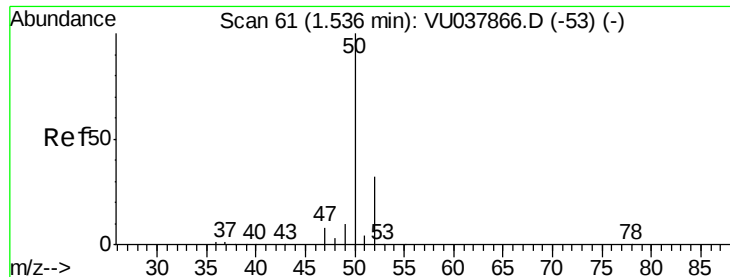
Instrument :
MSVOA_U
ClientSampleId :
C0D96

Manual Integrations
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Quant Time: Apr 25 03:04:28 2020
Quant Method : Z:\V0ASRV\HPCHEM1\MSVOA_U\METHOD\SOMULM042320WMA.M
Quant Title : VOC Analysis
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Response via : Initial Calibration





#3

Chloromethane

Concen: 1.504 ug/L

RT: 1.54 min Scan# 61

Delta R.T. -0.00 min

Lab File: VU037877.D

Acq: 24 Apr 2020 17:33

Instrument :

MSVOA_U

ClientSampleId :

C0D96

Tot Ion: 50 Resp: 8041

Ion Ratio Lower Upper

50 100

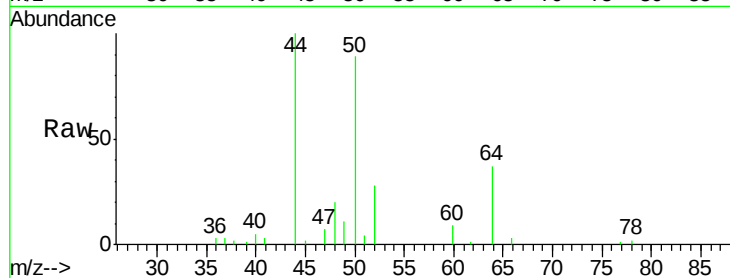
52 31.2 23.1 42.9

Manual Integrations

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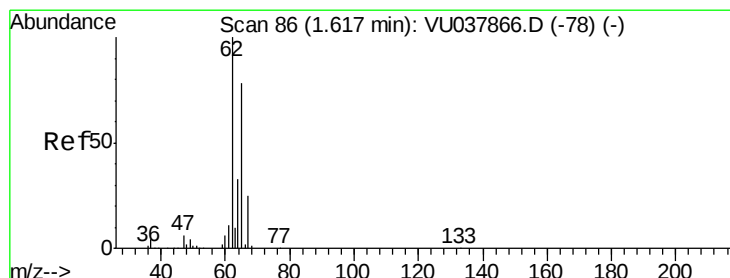
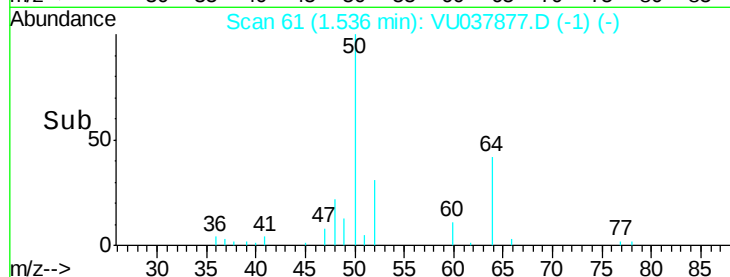
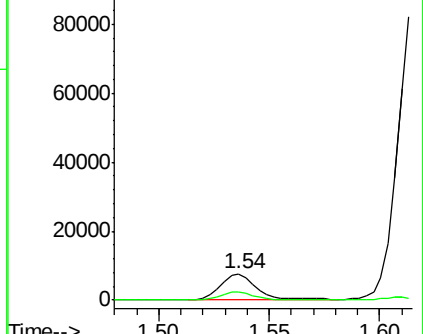
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Abundance Ion 50.00 (49.70 to 50.70): VU037866.D (-53) (-)

Ion 52.00 (51.70 to 52.70): VU037866.D (-53) (-)



#5

Vinyl chloride

Concen: 2058.697 ug/L m

RT: 1.61 min Scan# 84

Delta R.T. -0.01 min

Lab File: VU037877.D

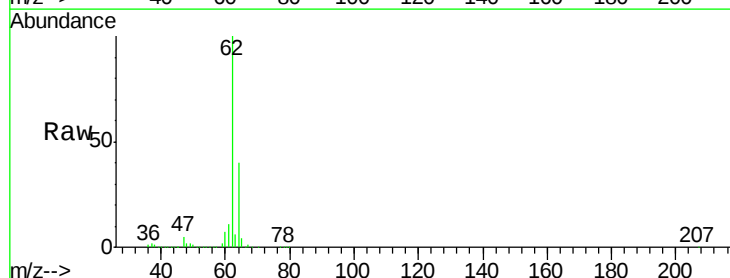
Acq: 24 Apr 2020 17:33

Tgt Ion: 62 Resp: 12144086

Ion Ratio Lower Upper

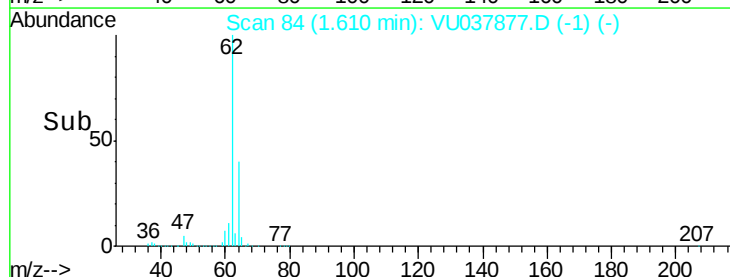
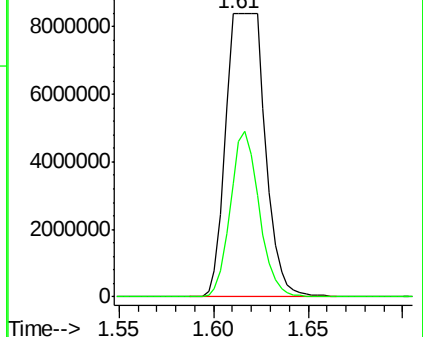
62 100

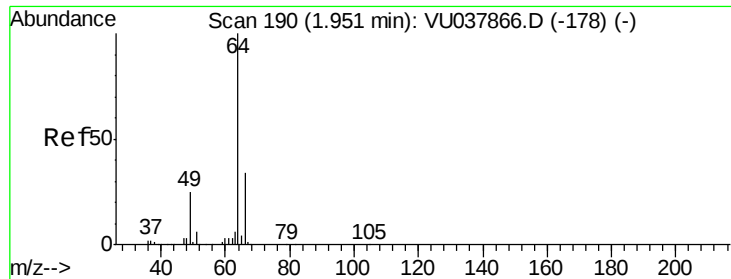
64 40.2 23.2 43.0



Abundance Ion 62.00 (61.70 to 62.70): VU037866.D (-78) (-)

Ion 64.00 (63.70 to 64.70): VU037866.D (-78) (-)





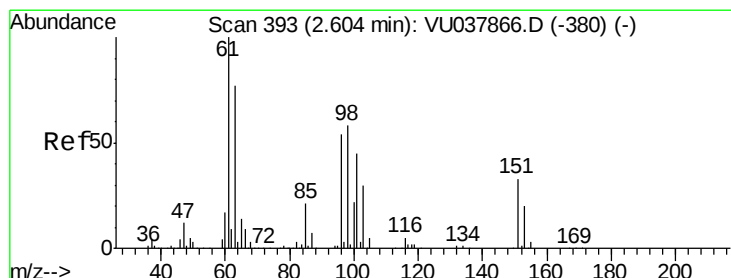
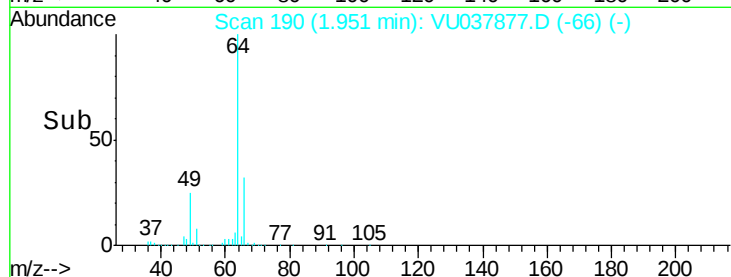
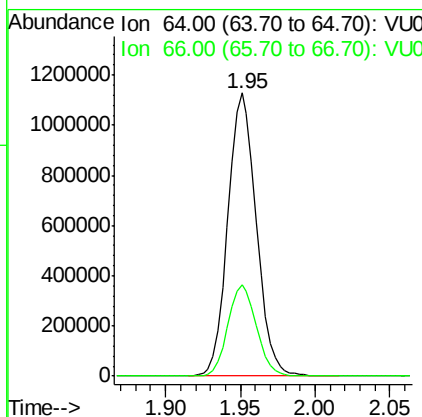
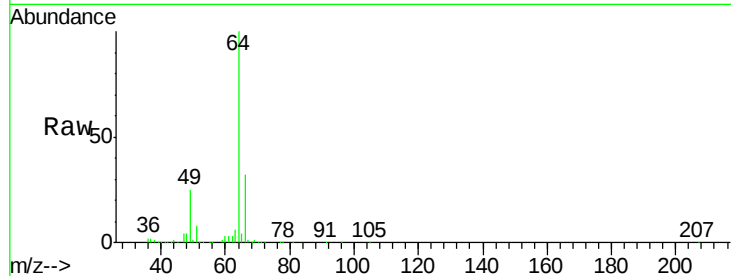
#8
Chloroethane
Concen: 447.122 ug/L
RT: 1.95 min Scan# 190
Delta R.T. -0.00 min
Lab File: VU037877.D
Acq: 24 Apr 2020 17:33

Instrument :
MSVOA_U
ClientSampleId :
C0D96

Tot Ion: 64 Resp: 1481914
Ion Ratio Lower Upper
64 100
66 32.3 22.3 41.3

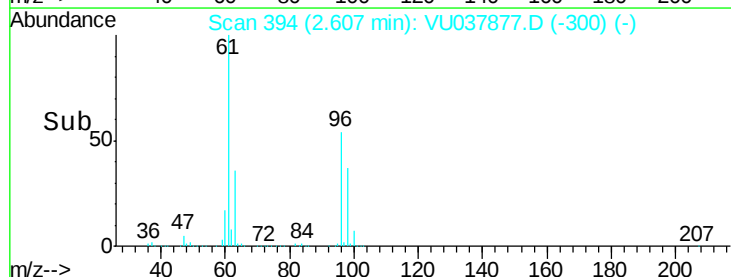
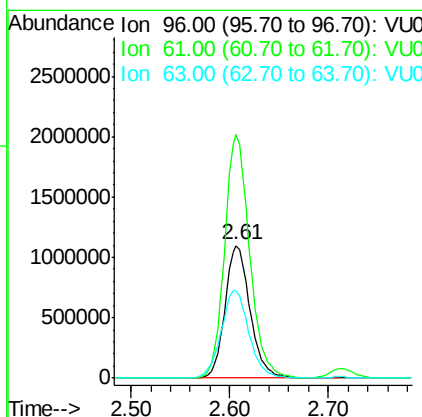
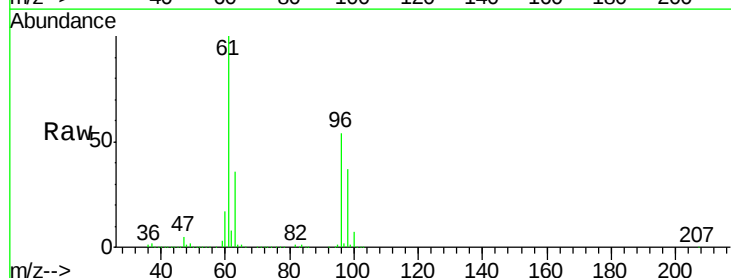
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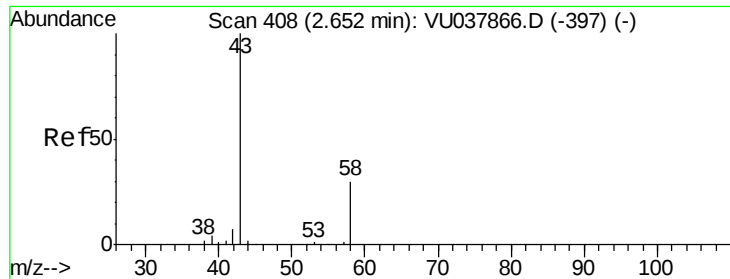
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#12
1,1-Dichloroethene
Concen: 537.763 ug/L
RT: 2.61 min Scan# 394
Delta R.T. 0.00 min
Lab File: VU037877.D
Acq: 24 Apr 2020 17:33

Tgt Ion: 96 Resp: 1941203
Ion Ratio Lower Upper
96 100
61 184.0 134.1 249.0
63 66.3 96.5 179.1#





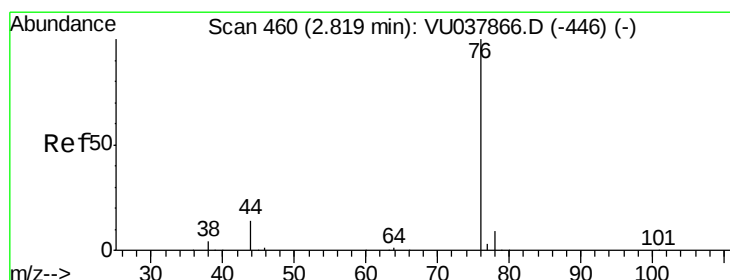
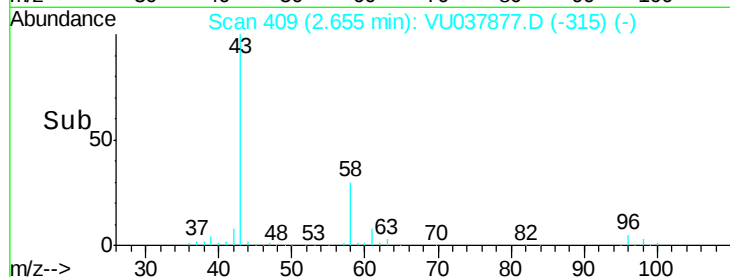
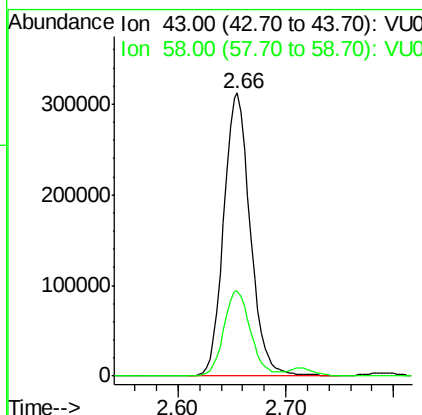
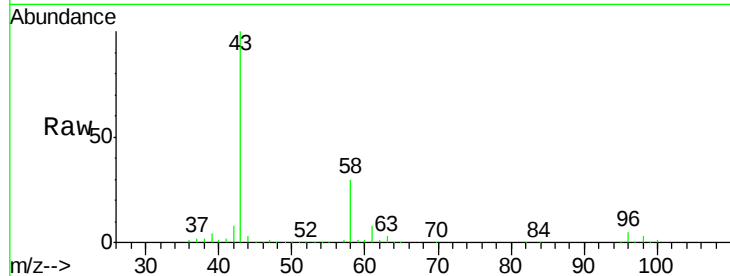
#13
Acetone
Concen: 217.470 ug/L
RT: 2.66 min Scan# 409
Delta R.T. 0.00 min
Lab File: VU037877.D
Acq: 24 Apr 2020 17:33

Instrument :
MSVOA_U
ClientSampleId :
C0D96

Tot Ion: 43 Resp: 534092
Ion Ratio Lower Upper
43 100
58 30.7 0.0 62.0

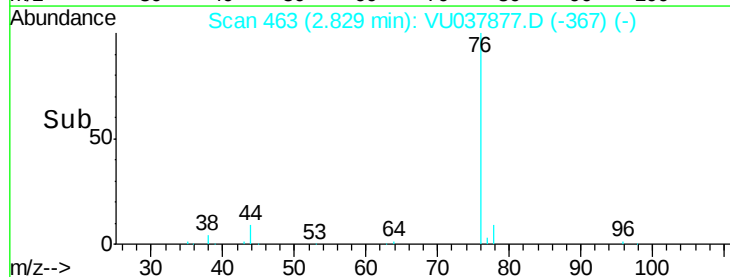
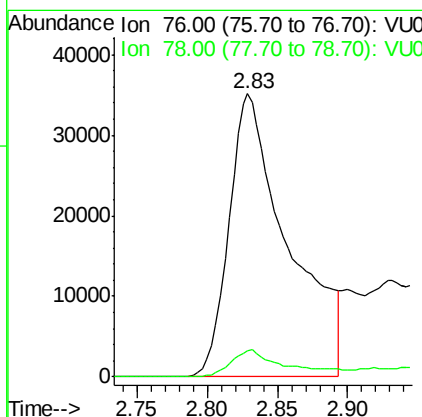
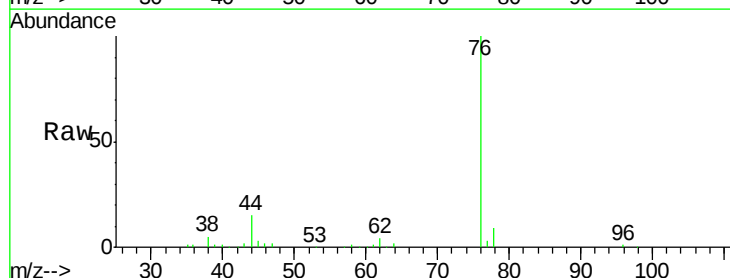
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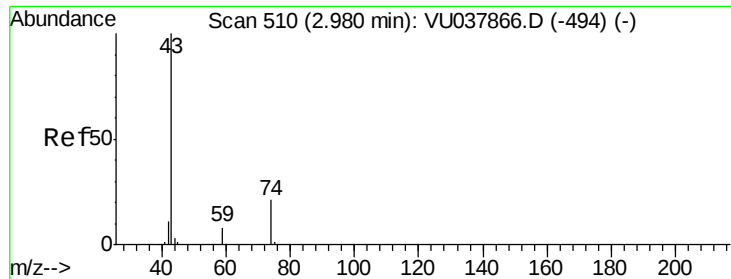
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#14
Carbon disulfide
Concen: 7.968 ug/L
RT: 2.83 min Scan# 463
Delta R.T. 0.01 min
Lab File: VU037877.D
Acq: 24 Apr 2020 17:33

Tgt Ion: 76 Resp: 102867
Ion Ratio Lower Upper
76 100
78 9.3 7.4 11.0





#15

Methvl Acetate

Concen: 8.351 ug/L

RT: 2.98 min Scan# 510

Delta R.T. -0.00 min

Lab File: VU037877.D

Acq: 24 Apr 2020 17:33

Instrument :

MSVOA_U

ClientSampleId :

C0D96

Tot Ion: 43 Resp: 49569

Ion Ratio Lower Upper

43 100

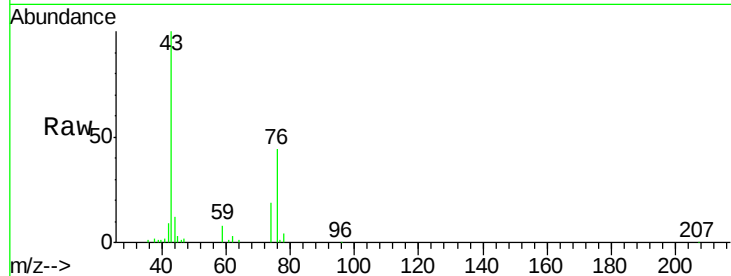
74 20.2 17.0 25.4

Manual Integrations

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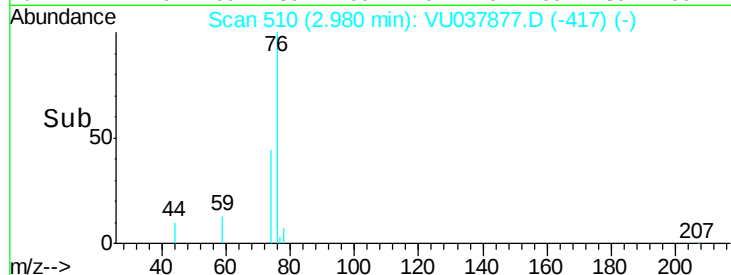
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Abundance Ion 43.00 (42.70 to 43.70): VU037866.D (-494) (-)

Ion 74.00 (73.70 to 74.70): VU037866.D (-494) (-)

Time-->

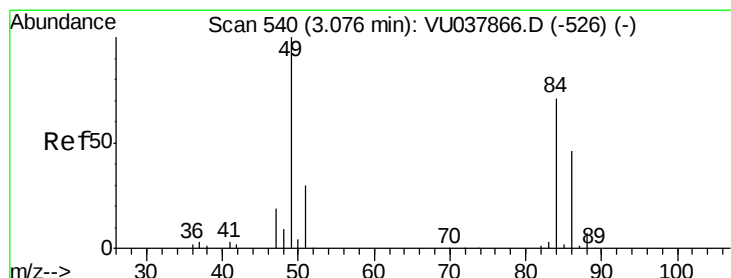


Abundance

Ion 43.00 (42.70 to 43.70): VU037866.D (-494) (-)

Ion 74.00 (73.70 to 74.70): VU037866.D (-494) (-)

Time-->



#16

Methylene chloride

Concen: 3353.183 ug/L

RT: 3.08 min Scan# 540

Delta R.T. -0.00 min

Lab File: VU037877.D

Acq: 24 Apr 2020 17:33

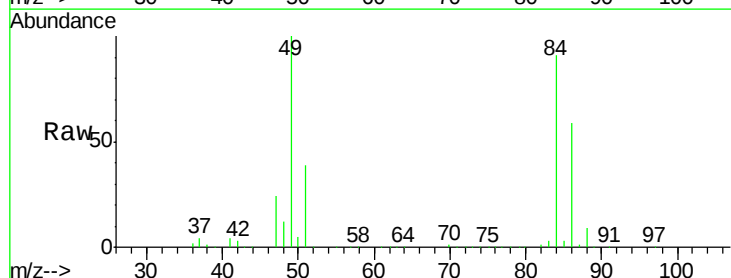
Tgt Ion: 84 Resp: 14382974

Ion Ratio Lower Upper

84 100

86 65.1 43.5 80.7

49 110.0 95.1 176.7

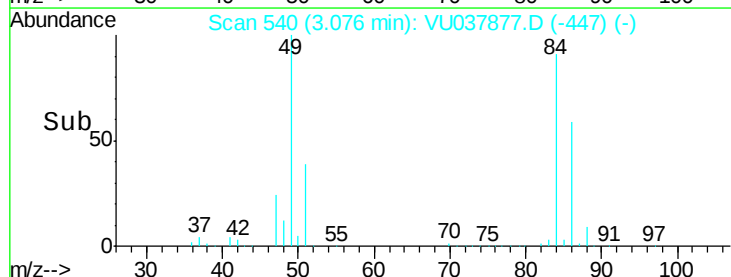


Abundance Ion 84.00 (83.70 to 84.70): VU037866.D (-526) (-)

Ion 86.00 (85.70 to 86.70): VU037866.D (-526) (-)

Ion 49.00 (48.70 to 49.70): VU037866.D (-526) (-)

Time-->



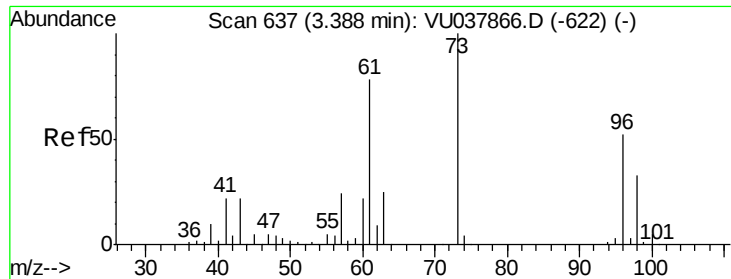
Abundance

Ion 84.00 (83.70 to 84.70): VU037866.D (-526) (-)

Ion 86.00 (85.70 to 86.70): VU037866.D (-526) (-)

Ion 49.00 (48.70 to 49.70): VU037866.D (-526) (-)

Time-->



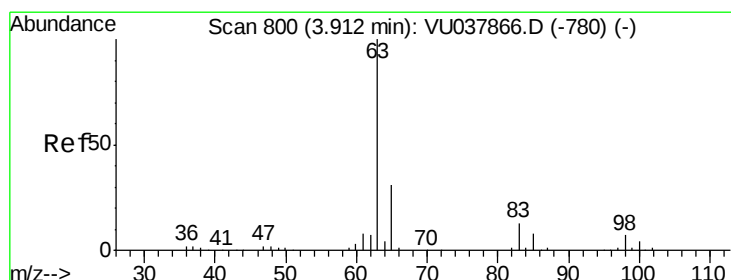
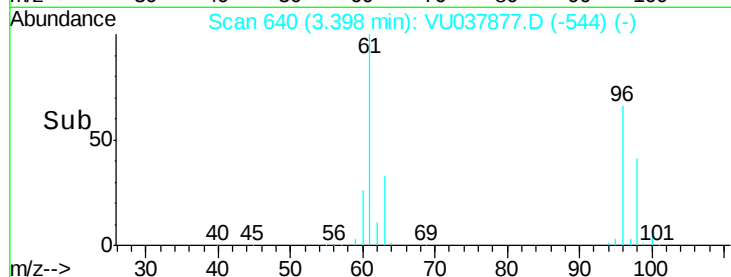
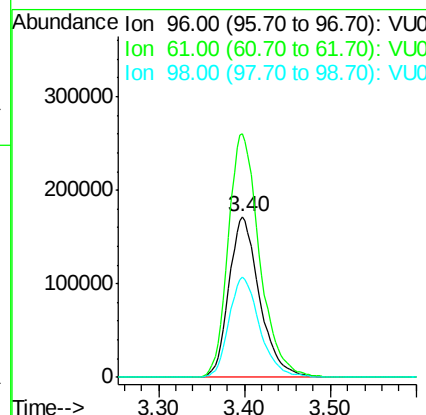
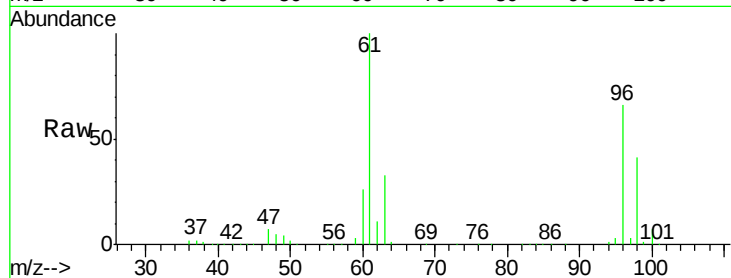
#17
trans-1,2-Dichloroethene
Concen: 105.429 ug/L
RT: 3.40 min Scan# 640
Delta R.T. 0.01 min
Lab File: VU037877.D
Acq: 24 Apr 2020 17:33

Instrument :
MSVOA_U
ClientSampleId :
C0D96

Tot Ion	Ratio	Lower	Upper
96	100		
61	151.6	111.4	207.0
98	62.1	43.9	81.5

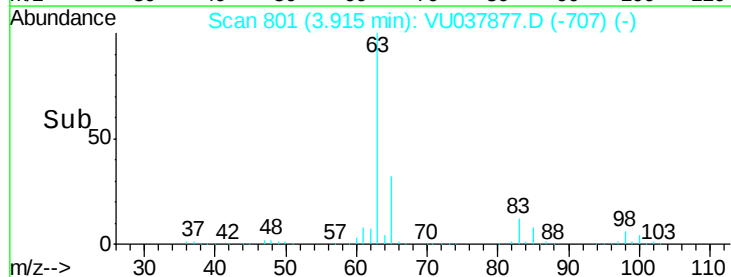
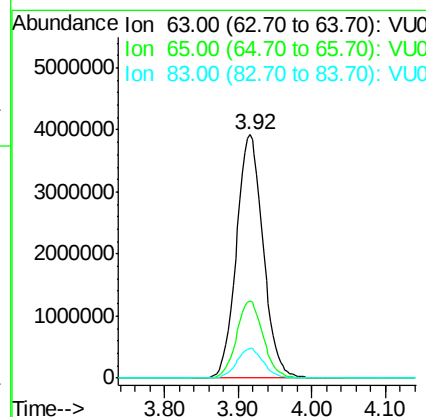
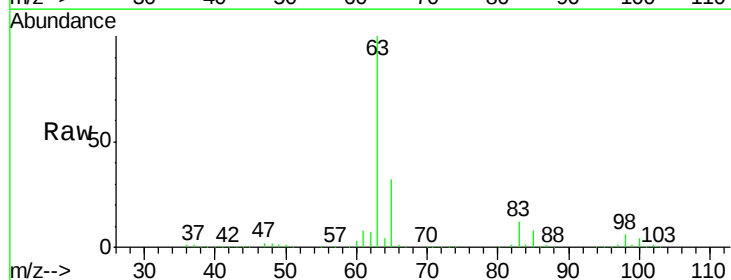
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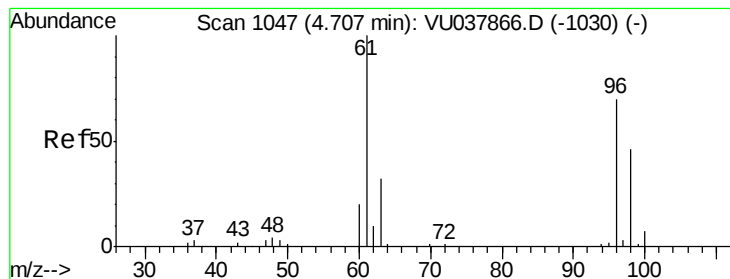
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#19
1,1-Dichloroethane
Concen: 1209.832 ug/L
RT: 3.92 min Scan# 801
Delta R.T. 0.00 min
Lab File: VU037877.D
Acq: 24 Apr 2020 17:33

Tgt Ion	Ratio	Lower	Upper
63	100		
65	31.6	22.2	41.2
83	12.3	8.6	16.0





#20

cis-1,2-Dichloroethene

Concen: 6832.970 ug/L m

RT: 4.70 min Scan# 1044

Delta R.T. -0.01 min

Lab File: VU037877.D

Acq: 24 Apr 2020 17:33

Instrument :

MSVOA_U

ClientSampleId :

C0D96

Tot Ion: 96 Resp: 30196229

Ion Ratio Lower Upper

96 100

61 100.0 100.4 186.4#

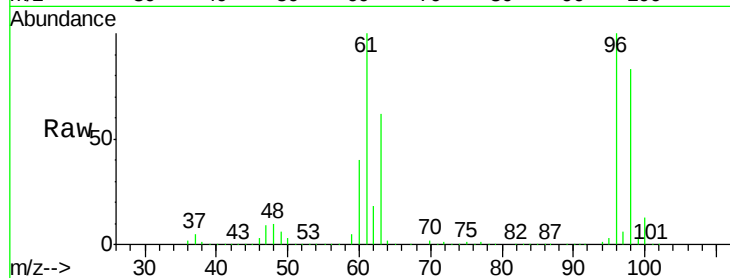
68 0.0 0.0 0.0

Manual Integrations

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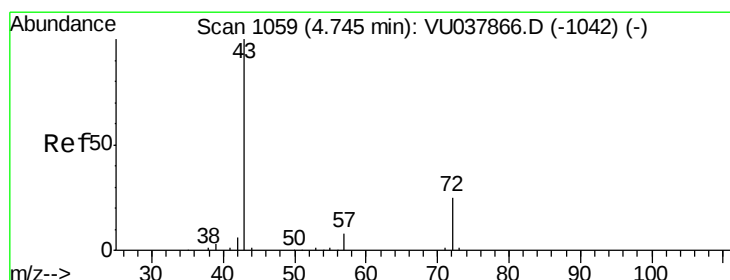
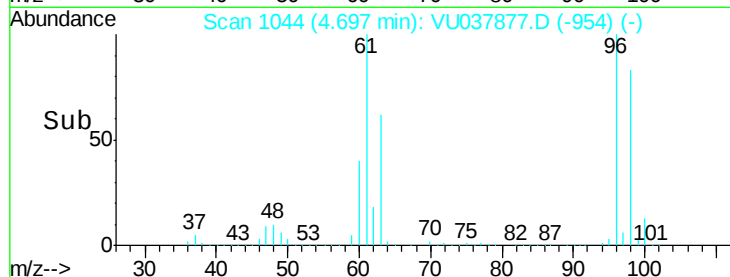
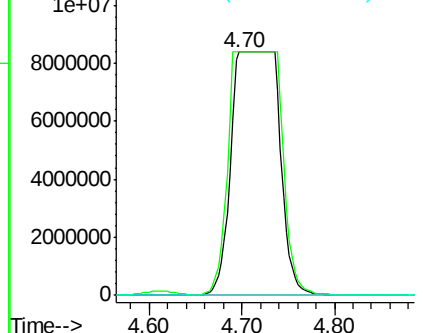
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Abundance Ion 96.00 (95.70 to 96.70): VU037866.D (-1030) (-)

Ion 61.00 (60.70 to 61.70): VU037866.D (-1030) (-)

Ion 68.00 (67.70 to 68.70): VU037866.D (-1030) (-)



#22

2-Butanone

Concen: 233.965 ug/L m

RT: 4.75 min Scan# 1062

Delta R.T. 0.01 min

Lab File: VU037877.D

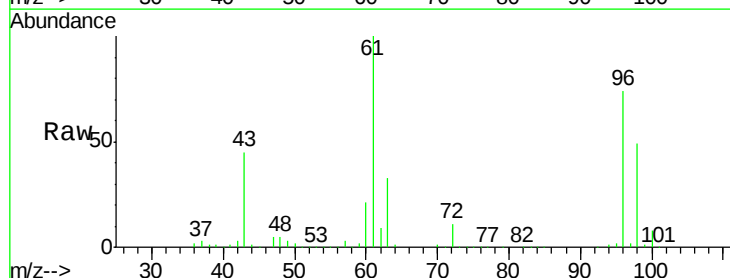
Acq: 24 Apr 2020 17:33

Tgt Ion: 43 Resp: 1006153

Ion Ratio Lower Upper

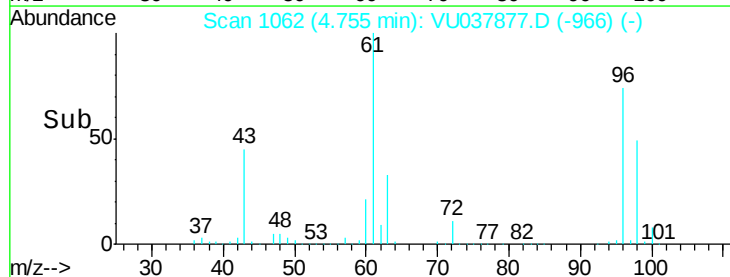
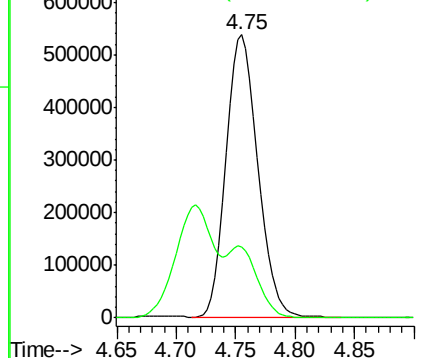
43 100

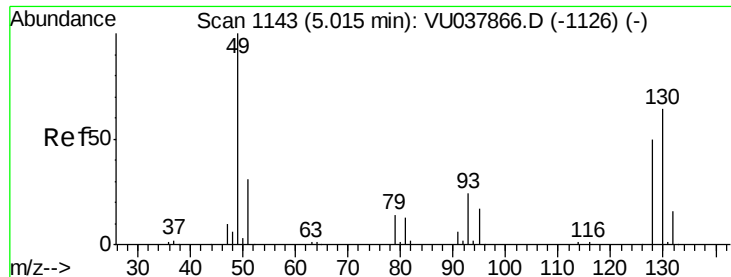
72 0.0 12.6 37.6#



Abundance Ion 43.00 (42.70 to 43.70): VU037866.D (-1042) (-)

Ion 72.00 (71.70 to 72.70): VU037866.D (-1042) (-)





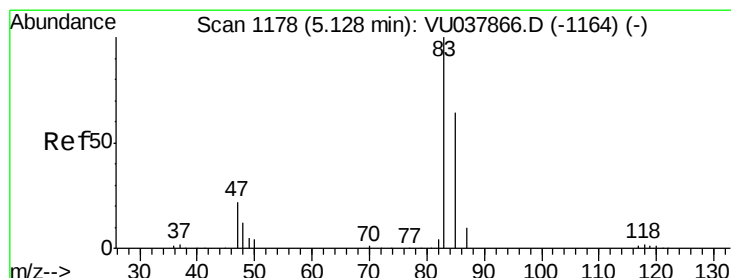
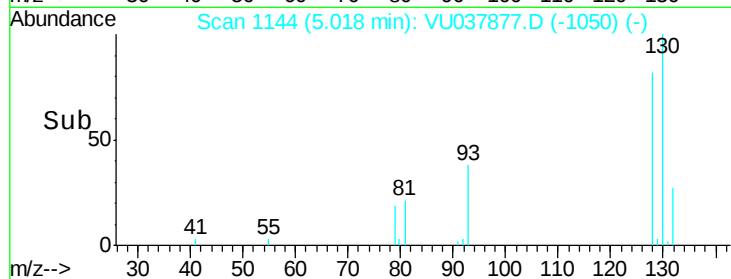
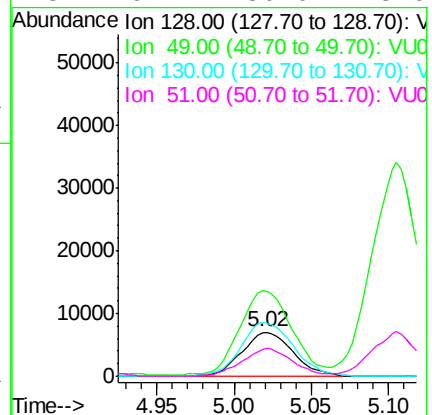
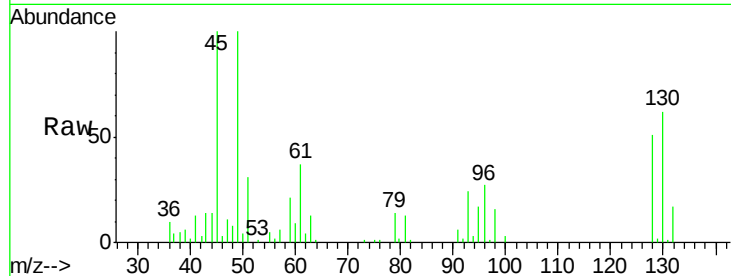
#23
Bromochloromethane
Concen: 7.574 ug/L
RT: 5.02 min Scan# 1144
Delta R.T. 0.00 min
Lab File: VU037877.D
Acq: 24 Apr 2020 17:33

Instrument :
MSVOA_U
ClientSampled :
C0D96

Tot Ion	Ratio	Lower	Upper
128	100		
49	196.5	140.9	261.7
130	122.4	88.6	164.6
51	61.4	50.0	75.0

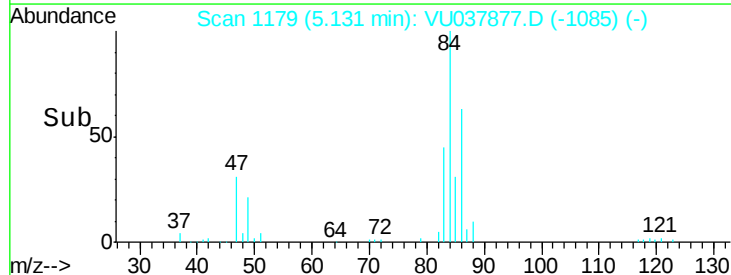
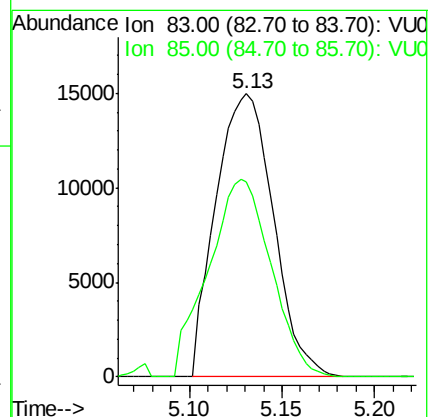
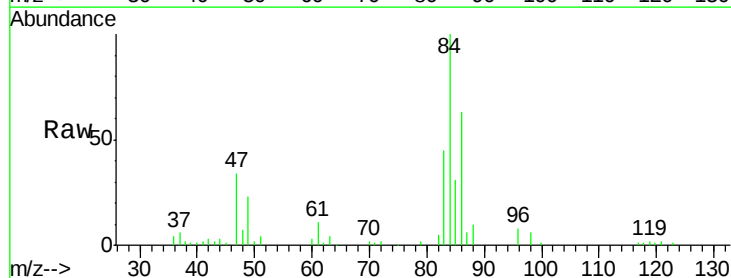
Manual Integrations
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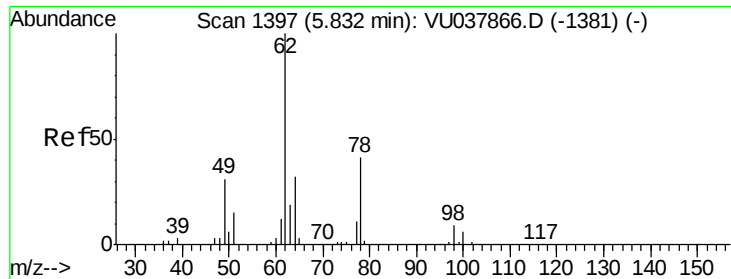
MMDadoda
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#25
Chloroform
Concen: 4.247 ug/L
RT: 5.13 min Scan# 1179
Delta R.T. 0.00 min
Lab File: VU037877.D
Acq: 24 Apr 2020 17:33

Tgt Ion	Ratio	Lower	Upper
83	100		
85	69.1	45.1	83.9





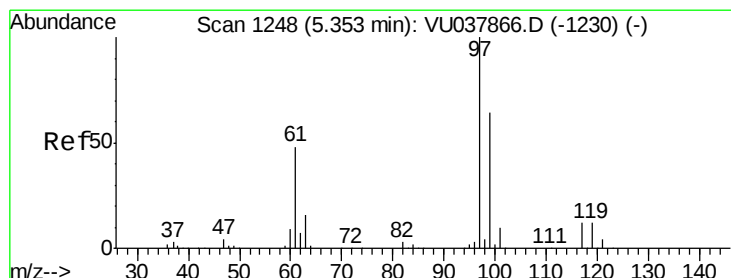
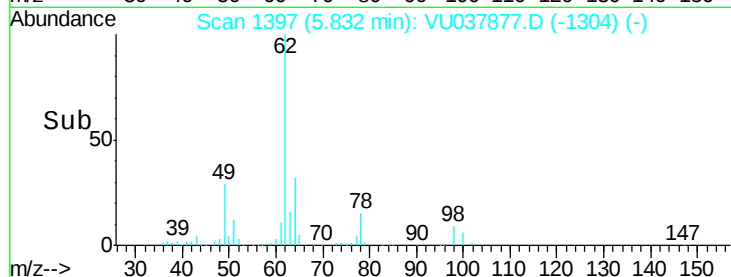
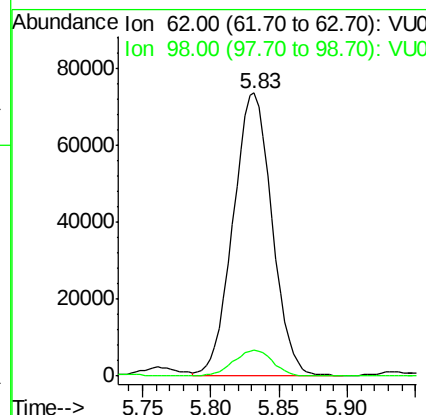
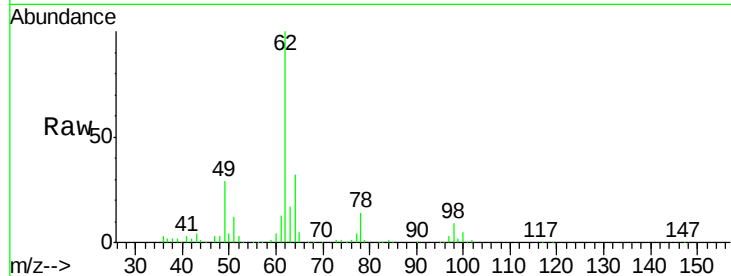
#27
 1,2-Dichloroethane
 Concen: 22.304 ug/L
 RT: 5.83 min Scan# 1397
 Delta R.T. -0.00 min
 Lab File: VU037877.D
 Acq: 24 Apr 2020 17:33

Instrument :
 MSVOA_U
 ClientSampleId :
 C0D96

Tot Ion	Ratio	Lower	Upper
62	100		
98	9.1	7.3	10.9

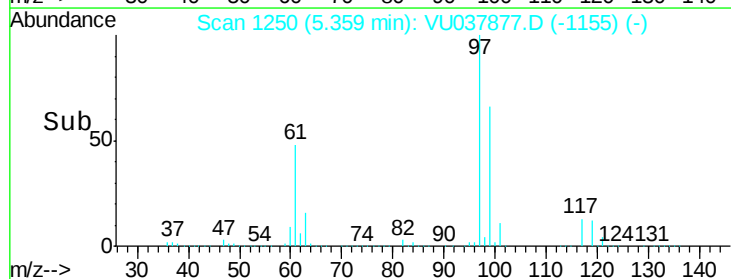
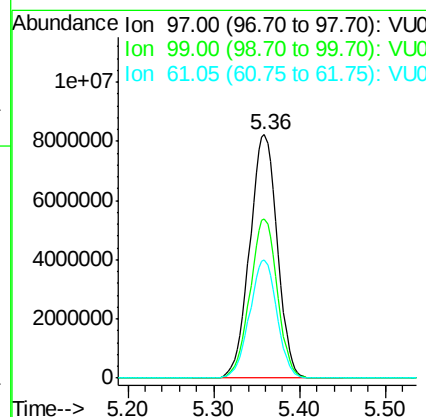
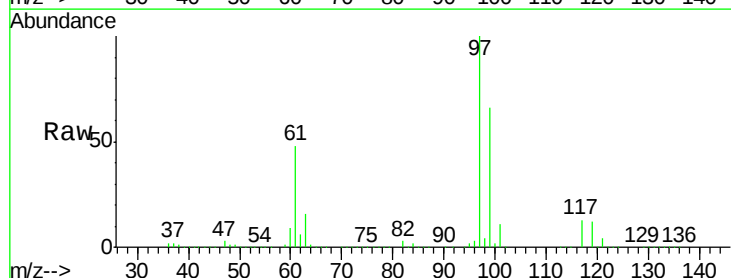
Manual Integrations
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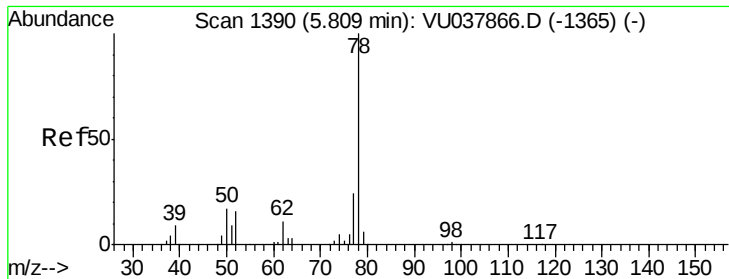
MMDadoda
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#30
 1,1,1-Trichloroethane
 Concen: 2754.991 ug/L
 RT: 5.36 min Scan# 1250
 Delta R.T. 0.01 min
 Lab File: VU037877.D
 Acq: 24 Apr 2020 17:33

Tgt Ion	Ratio	Lower	Upper
97	100		
99	64.8	50.7	76.1
61	48.0	38.9	58.3





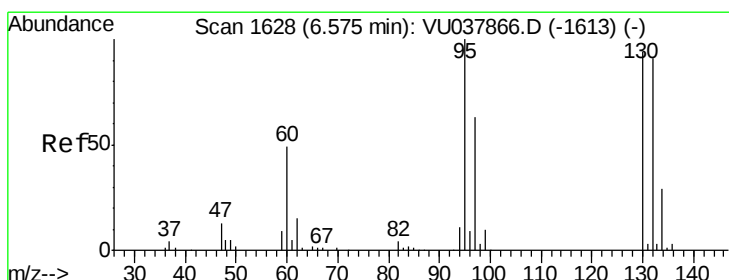
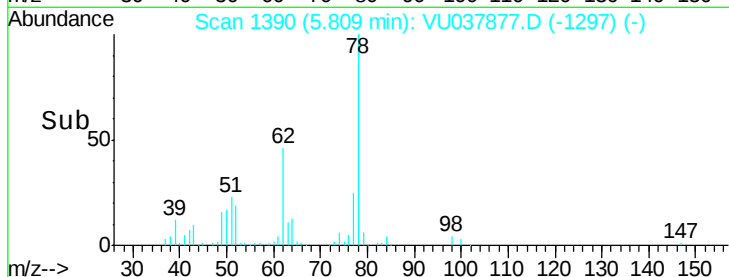
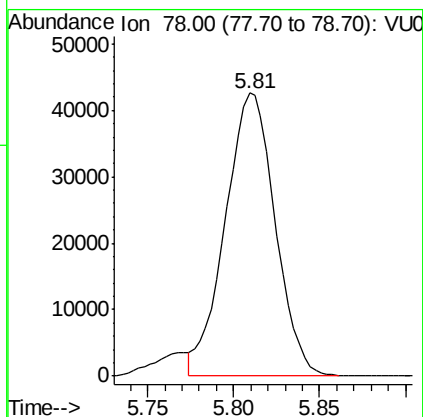
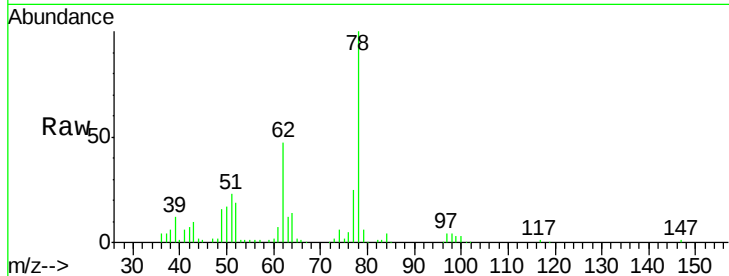
#33
Benzene
Concen: 4.758 ug/L
RT: 5.81 min Scan# 1390
Delta R.T. -0.00 min
Lab File: VU037877.D
Acq: 24 Apr 2020 17:33

Instrument :
MSVOA_U
ClientSampleId :
C0D96

Tgt Ion: 78 Resp: 85786

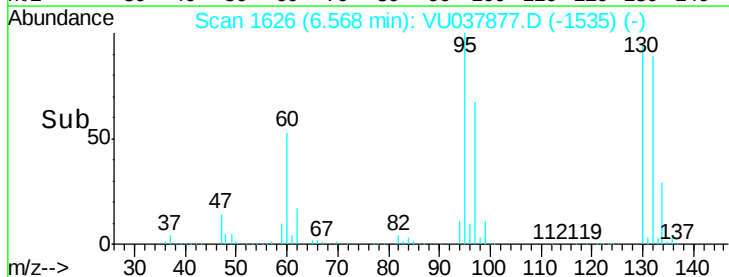
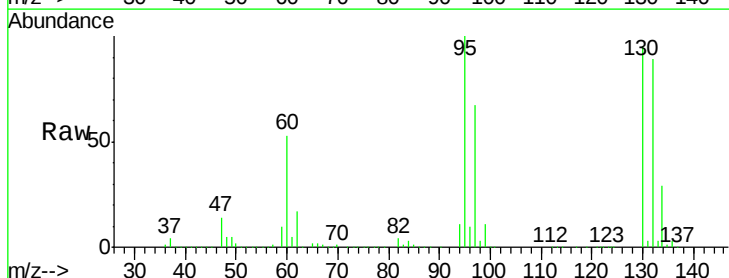
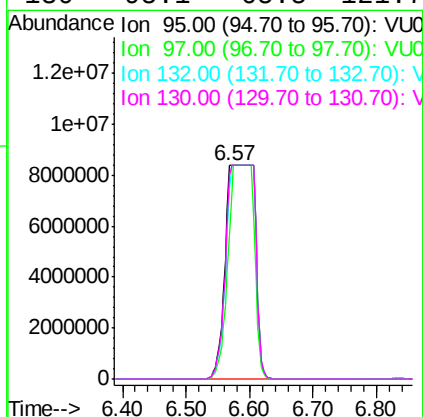
Manual Integrations
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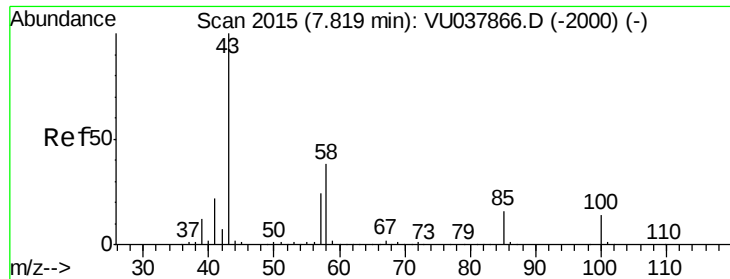
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#34
Trichloroethene
Concen: 6111.665 ug/L m
RT: 6.57 min Scan# 1626
Delta R.T. -0.01 min
Lab File: VU037877.D
Acq: 24 Apr 2020 17:33

Tgt Ion: 95 Resp: 27027654
Ion Ratio Lower Upper
95 100
97 67.2 44.4 82.5
132 88.9 65.0 120.6
130 95.1 65.5 121.7





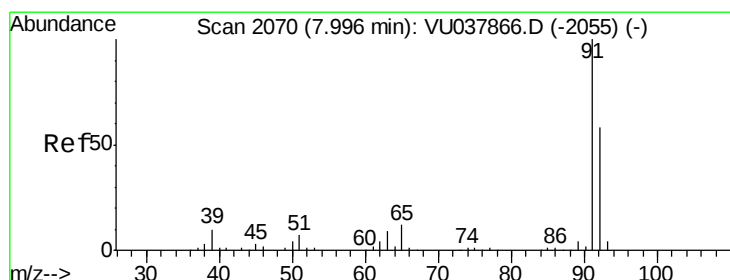
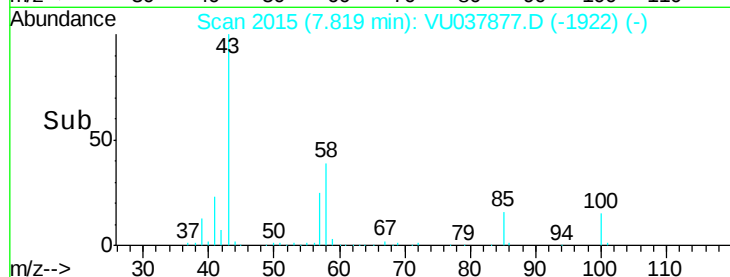
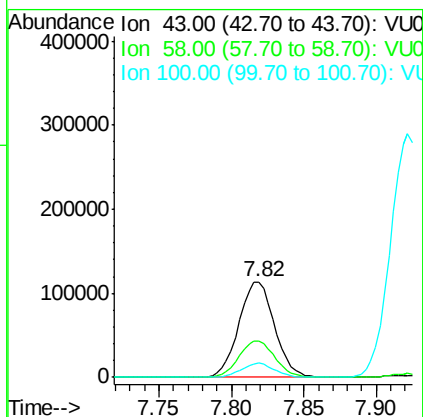
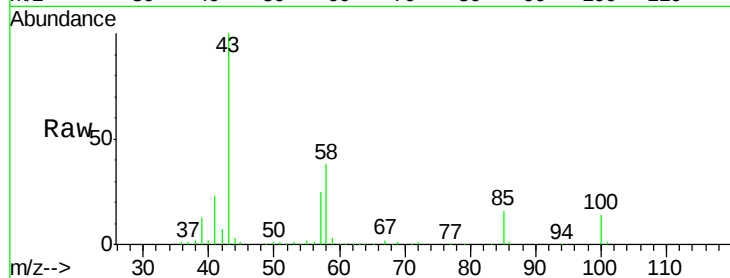
#40
4-Methyl-2-pentanone
Concen: 22.694 ug/L
RT: 7.82 min Scan# 2015
Delta R.T. -0.00 min
Lab File: VU037877.D
Acq: 24 Apr 2020 17:33

Instrument :
MSVOA_U
ClientSampleId :
C0D96

Tot Ion	Ratio	Lower	Upper
43	100		
58	38.6	30.2	45.2
100	13.9	10.9	16.3

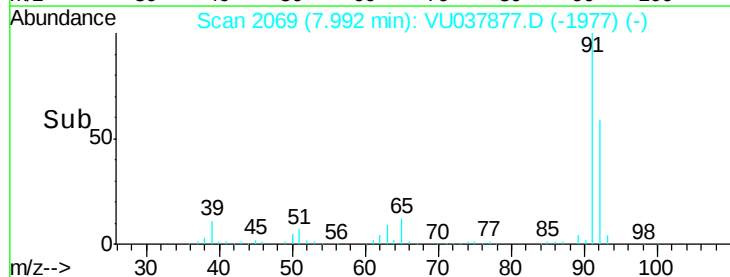
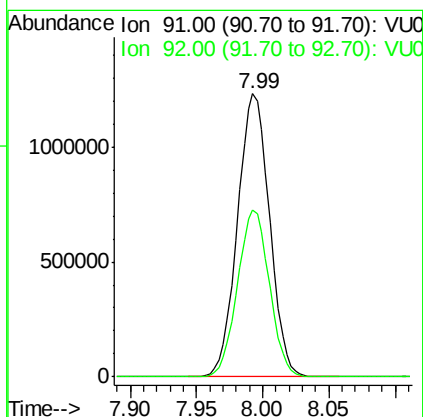
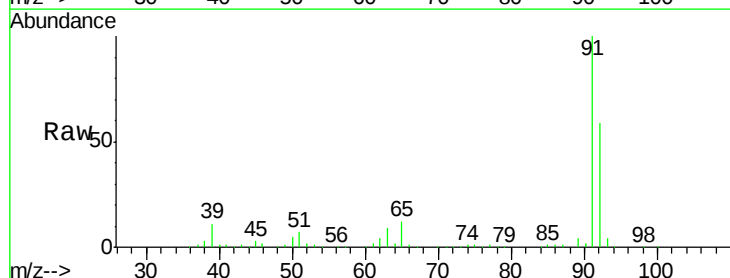
Manual Integrations
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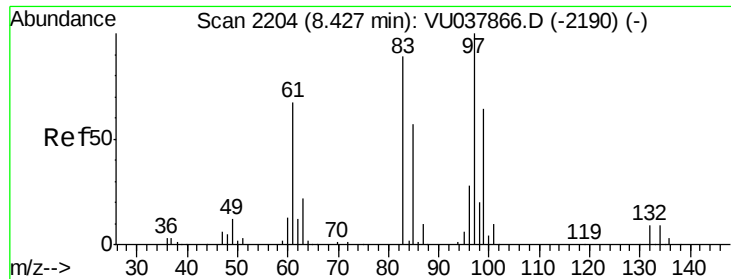
MMDadoda
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#42
Toluene
Concen: 109.220 ug/L
RT: 7.99 min Scan# 2069
Delta R.T. -0.00 min
Lab File: VU037877.D
Acq: 24 Apr 2020 17:33

Tgt Ion	Ratio	Lower	Upper
91	100		
92	58.9	41.2	76.6





#45

1,1,2-Trichloroethane

Concen: 33.997 ug/L

RT: 8.42 min Scan# 2203

Delta R.T. -0.00 min

Lab File: VU037877.D

Acq: 24 Apr 2020 17:33

Instrument :

MSVOA_U

ClientSampleId :

C0D96

Tot Ion: 97 Resp: 146038

Ion Ratio Lower Upper

97 100

99 62.7 44.0 81.6

83 89.3 62.6 116.2

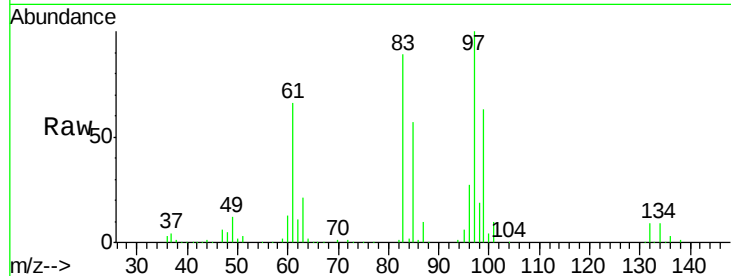
85 56.9 40.0 74.4

Manual Integrations

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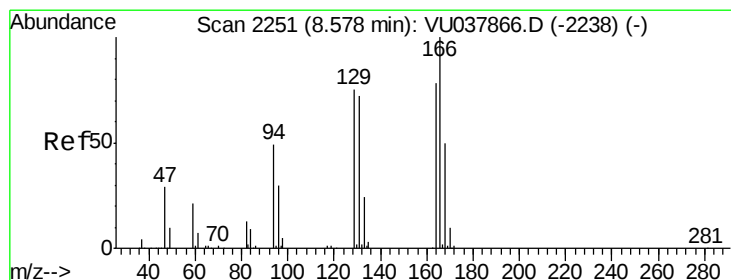
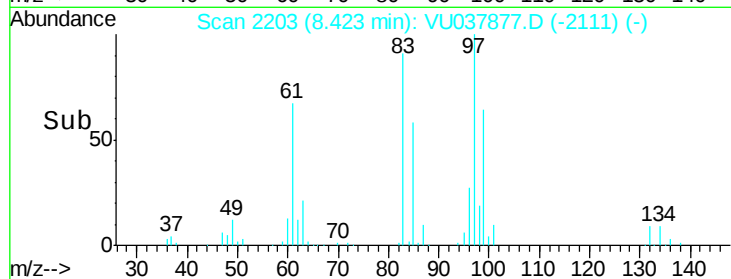
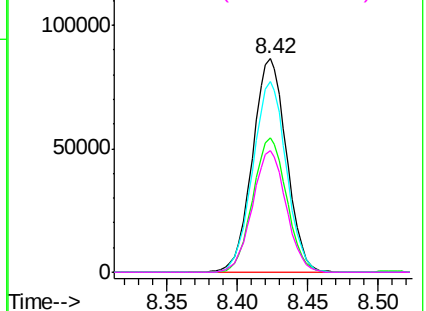


Abundance Ion 97.00 (96.70 to 97.70): VU0

Ion 99.00 (98.70 to 99.70): VU0

Ion 83.00 (82.70 to 83.70): VU0

Ion 85.00 (84.70 to 85.70): VU0



#46

Tetrachloroethene

Concen: 2.355 ug/L

RT: 8.57 min Scan# 2250

Delta R.T. -0.00 min

Lab File: VU037877.D

Acq: 24 Apr 2020 17:33

Tgt Ion: 164 Resp: 7611

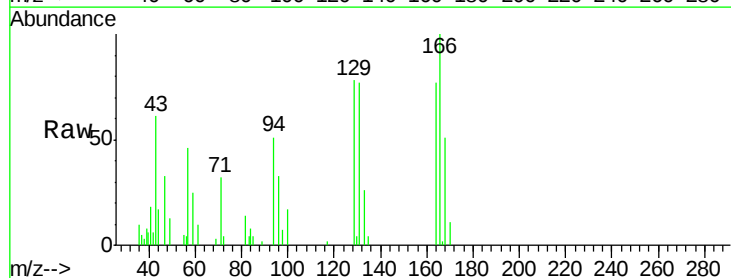
Ion Ratio Lower Upper

164 100

129 100.4 67.3 125.1

131 99.1 64.8 120.4

166 129.3 88.5 164.4

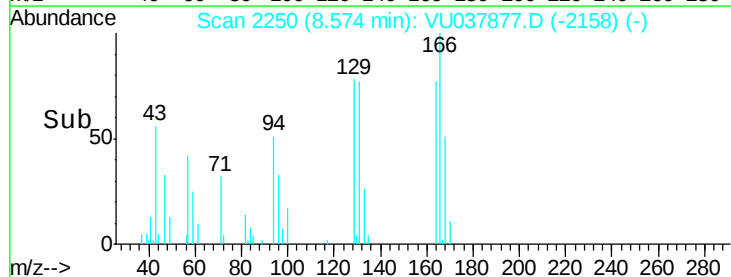
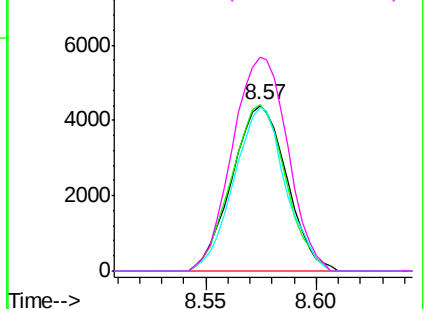


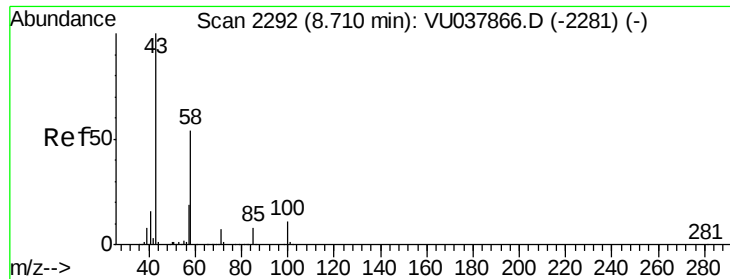
Abundance Ion 164.00 (163.70 to 164.70): V

Ion 129.00 (128.70 to 129.70): V

Ion 131.00 (130.70 to 131.70): V

Ion 166.00 (165.70 to 166.70): V





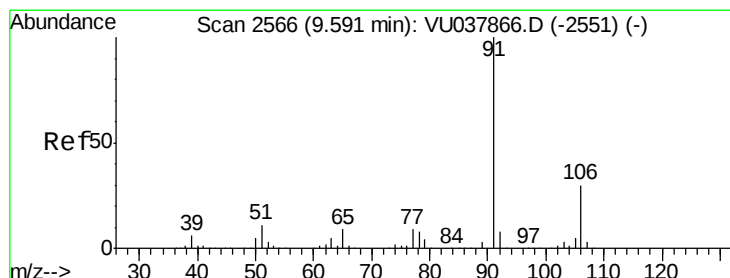
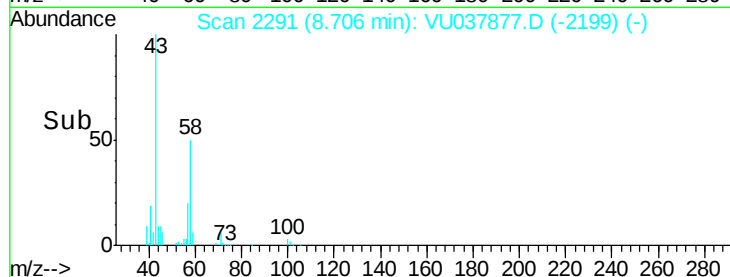
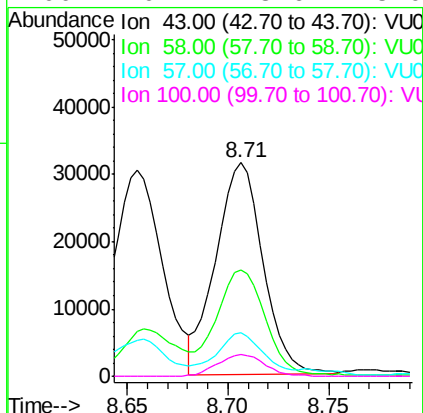
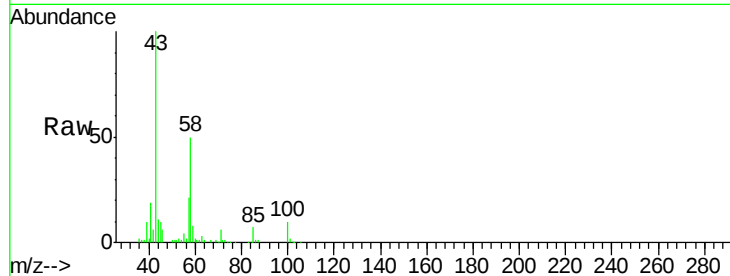
#48
2-Hexanone
Concen: 7.617 ug/L
RT: 8.71 min Scan# 2291
Delta R.T. -0.00 min
Lab File: VU037877.D
Acq: 24 Apr 2020 17:33

Instrument :
MSVOA_U
ClientSampled :
C0D96

Tot Ion	Ion	Ratio	Lower	Upper
51571	43	100		
	58	49.9	42.6	63.8
	57	15.3	14.6	22.0
	100	10.2	8.6	13.0

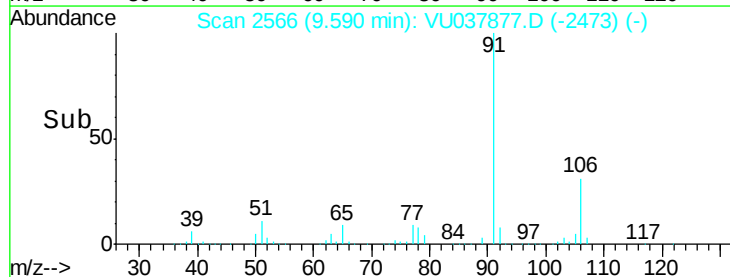
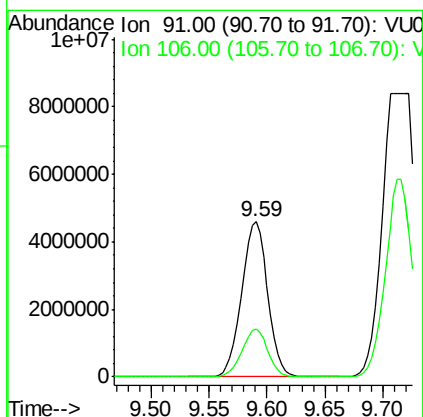
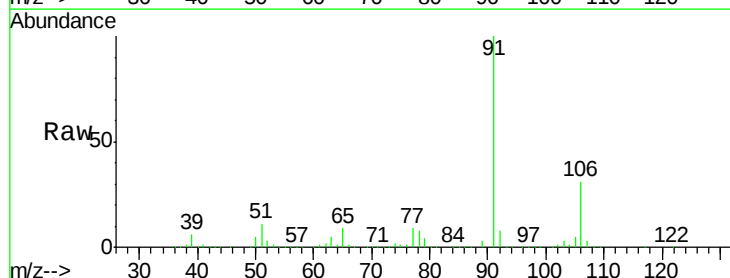
Manual Integrations
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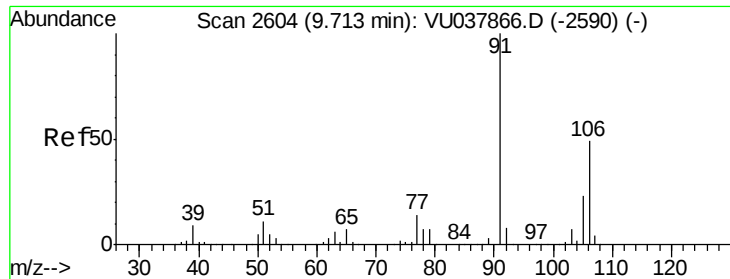
MMDadoda
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#52
Ethylbenzene
Concen: 337.514 ug/L
RT: 9.59 min Scan# 2566
Delta R.T. -0.00 min
Lab File: VU037877.D
Acq: 24 Apr 2020 17:33

Tgt Ion	Ion	Ratio	Lower	Upper
7144520	91	100		
	106	30.6	21.1	39.1





#53

m,p-Xylene

Concen: 1181.055 ug/L

RT: 9.71 min Scan# 2604

Delta R.T. -0.00 min

Lab File: VU037877.D

Acq: 24 Apr 2020 17:33

Tot Ion:106 Resp: 9412929

Ion Ratio Lower Upper

106 100

91 142.8 142.8 265.2

Instrument :

MSVOA_U

ClientSampleId :

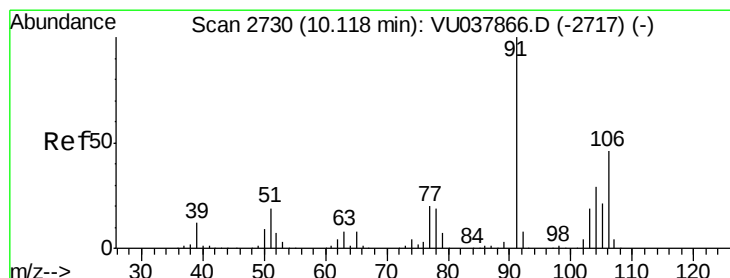
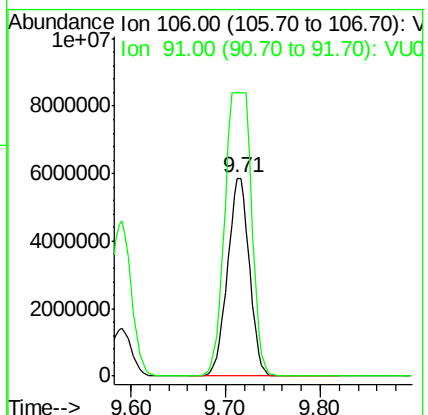
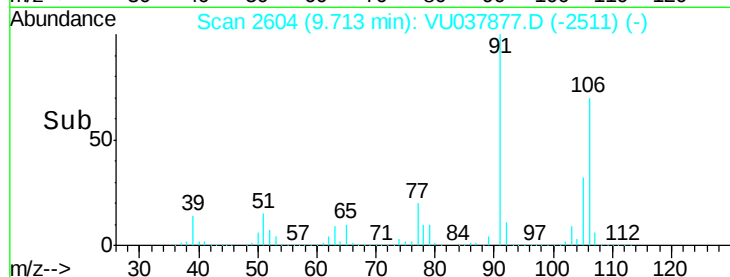
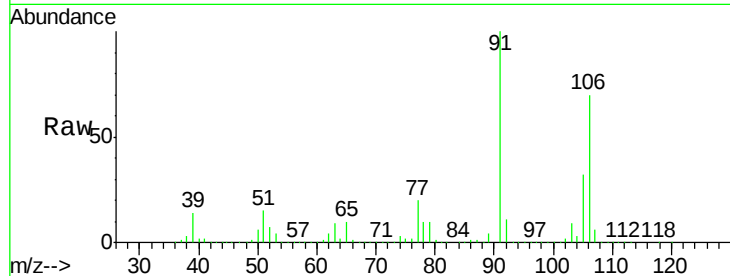
C0D96

Manual Integrations

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#54

o-xylene

Concen: 380.141 ug/L

RT: 10.12 min Scan# 2730

Delta R.T. -0.00 min

Lab File: VU037877.D

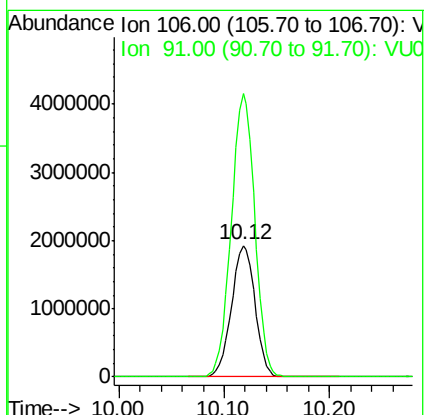
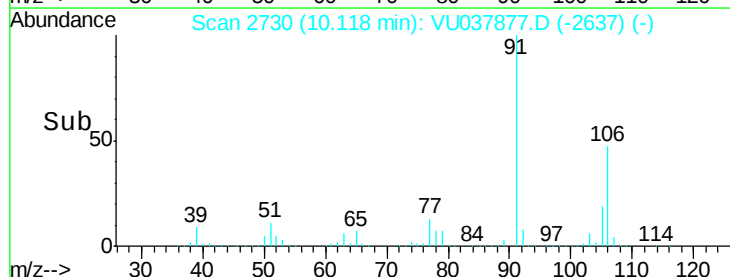
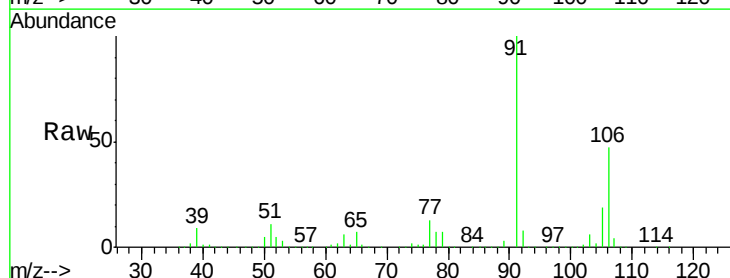
Acq: 24 Apr 2020 17:33

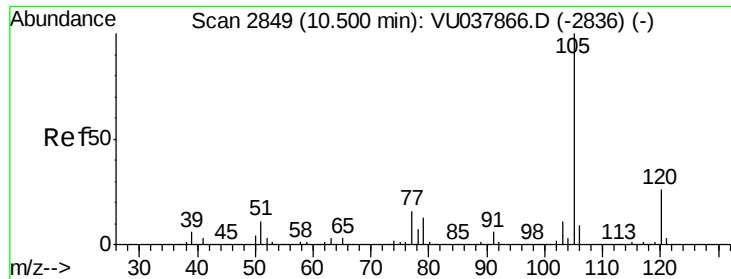
Tgt Ion:106 Resp: 2963060

Ion Ratio Lower Upper

106 100

91 214.9 150.6 279.6





#56
Isopropylbenzene
Concen: 32.563 ug/L
RT: 10.50 min Scan# 2848
Delta R.T. -0.00 min
Lab File: VU037877.D
Acq: 24 Apr 2020 17:33

Instrument :
MSVOA_U
ClientSampleId :
C0D96

Tot Ion	Ratio	Resp	Lower	Upper
105	100	671732		
120	26.0		20.6	31.0
77	16.2		13.0	19.4

Manual Integrations
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