

Data Path : Z:\VOASRV\HPCHEM1\MSVOA U\DATA\VU042420\
 Data File : VU037878.D
 Acq On : 24 Apr 2020 17:56
 Operator : JC/MD
 Sample : L2395-12
 Misc : 5.0mL/MSVOA U/WATER
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_U
 ClientSampleId :
 C0D97

Manual Integrations
 APPROVED

MMDadoda
 4/28/2020 1:14:43 PM

Quant Time: Apr 25 03:45:32 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	576872	50.00	ug/L	0.00
28) Chlorobenzene-d5	9.44	117	563084	50.00	ug/L	0.00
60) 1,4-Dichlorobenzene-d4	11.83	152	224921	50.00	ug/L	0.00

System Monitoring Compounds

4) Vinyl Chloride-d3	1.61	65	270750	53.72	ug/L	0.00
Spiked Amount	50.000	Range	60 - 135	Recovery	=	107.44%
7) Chloroethane-d5	1.93	69	191584	49.04	ug/L	0.00
Spiked Amount	50.000	Range	70 - 130	Recovery	=	98.08%
11) 1,1-Dichloroethene-d2	2.59	63	439449	53.86	ug/L	0.00
Spiked Amount	50.000	Range	60 - 125	Recovery	=	107.72%
21) 2-Butanone-d5	4.67	46	451029	112.93	ug/L	0.00
Spiked Amount	100.000	Range	40 - 130	Recovery	=	112.93%
24) Chloroform-d	5.10	84	359576	46.84	ug/L	0.00
Spiked Amount	50.000	Range	70 - 125	Recovery	=	93.68%
26) 1,2-Dichloroethane-d4	5.74	65	255942	48.15	ug/L	0.00
Spiked Amount	50.000	Range	70 - 125	Recovery	=	96.30%
32) Benzene-d6	5.76	84	780456	49.01	ug/L	0.00
Spiked Amount	50.000	Range	70 - 125	Recovery	=	98.02%
36) 1,2-Dichloropropane-d6	6.72	67	265703	49.89	ug/L	0.00
Spiked Amount	50.000	Range	70 - 120	Recovery	=	99.78%
41) Toluene-d8	7.92	98	723792	49.45	ug/L	0.00
Spiked Amount	50.000	Range	80 - 120	Recovery	=	98.90%
43) trans-1,3-Dichloropropene-	8.20	79	136109	49.65	ug/L	0.00
Spiked Amount	50.000	Range	60 - 125	Recovery	=	99.30%
47) 2-Hexanone-d5	8.65	63	336213	115.97	ug/L	0.00
Spiked Amount	100.000	Range	45 - 130	Recovery	=	115.97%
57) 1,1,2,2-Tetrachloroethane-	10.77	84	308630	41.65	ug/L	0.00
Spiked Amount	50.000	Range	65 - 120	Recovery	=	83.30%
64) 1,2-Dichlorobenzene-d4	12.20	152	274456	62.71	ug/L	0.00
Spiked Amount	50.000	Range	80 - 120	Recovery	=	125.42%#

Target Compounds

Target Compounds	R.T.	QIon	Response	Conc	Units	Ovalue
5) Vinyl chloride	1.62	62	4834451	844.709	ug/L	98
8) Chloroethane	1.95	64	199957	62.183	ug/L	99
12) 1,1-Dichloroethene	2.61	96	257061	73.399	ug/L	83
13) Acetone	2.66	43	94507	39.662	ug/L	100
14) Carbon disulfide	2.83	76	48387	3.863	ug/L	100
15) Methyl Acetate	2.98	43	7725	1.341	ug/L	99
16) Methylene chloride	3.08	84	1133972	272.485	ug/L	98
17) trans-1,2-Dichloroethene	3.39	96	11409	2.913	ug/L	90
19) 1,1-Dichloroethane	3.91	63	2544323	322.325	ug/L	100
20) cis-1,2-Dichloroethene	4.71	96	9515430	2219.308	ug/L	98
22) 2-Butanone	4.75	43	84938	20.357	ug/L #	50
27) 1,2-Dichloroethane	5.83	62	21261	3.361	ug/L	100
30) 1,1,1-Trichloroethane	5.36	97	2760728	439.018	ug/L	99
34) Trichloroethene	6.57	95	775310	184.942	ug/L	99
40) 4-Methyl-2-pentanone	7.82	43	21240	2.616	ug/L	96
42) Toluene	7.99	91	298021	16.632	ug/L	99
45) 1,1,2-Trichloroethane	8.42	97	12565	3.086	ug/L	86

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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)
52) Ethylbenzene	9.59	91	910696	45.384	ug/L	99
53) m,p-Xylene	9.71	106	1098847	145.443	ug/L	100
54) o-xylene	10.11	106	332523	45.002	ug/L	99
56) Isopropylbenzene	10.50	105	136812	6.996	ug/L	99

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

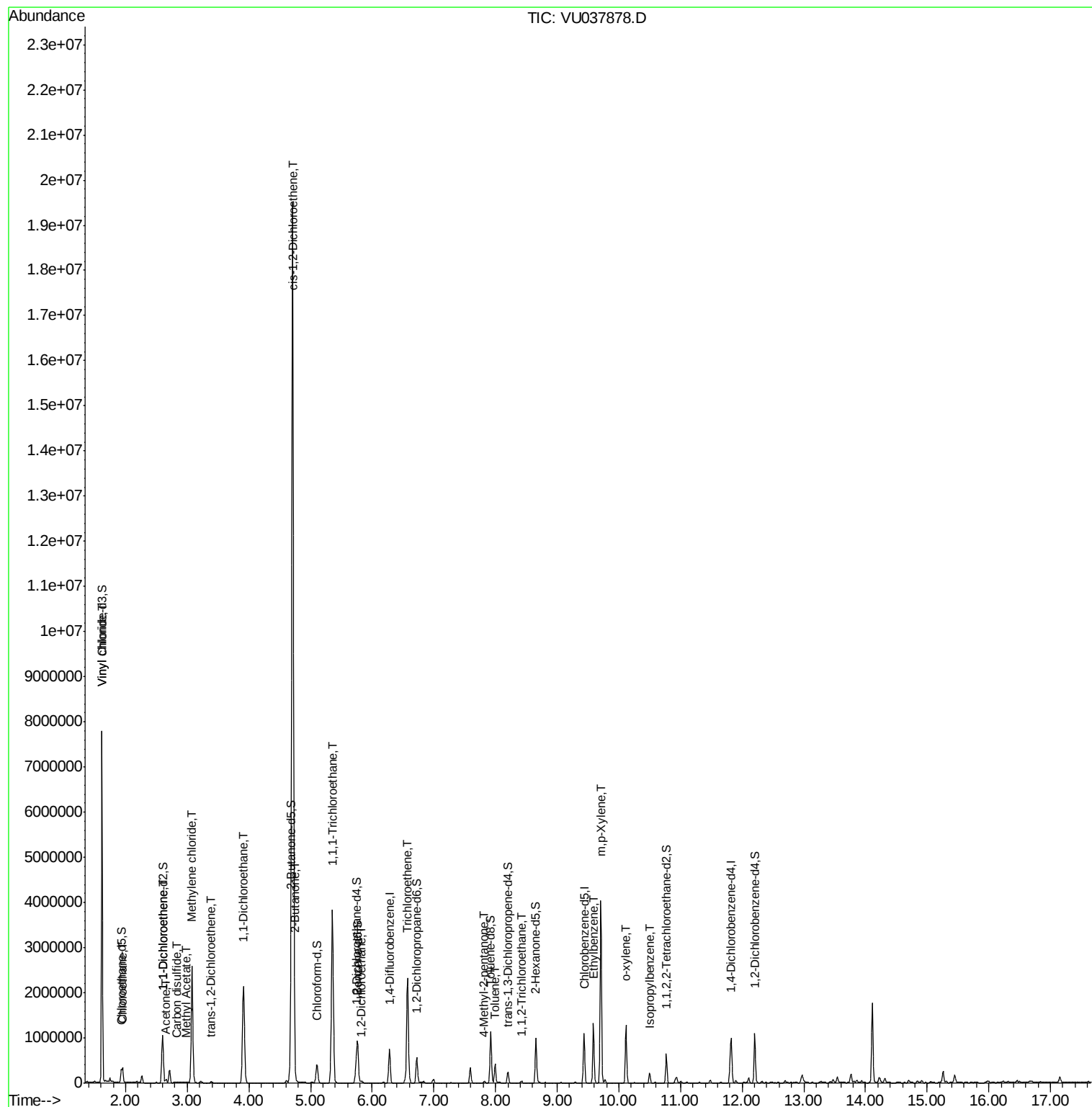
Data Path : Z:\V0ASRV\HPCHEM1\MSVOA U\DATA\VU042420\
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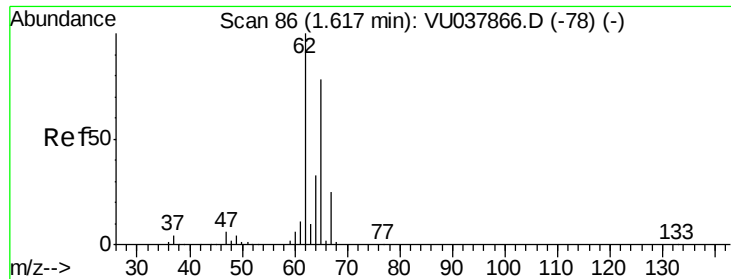
Instrument :
MSVOA_U
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QLast Update : Sat Apr 25 01:13:34 2020
Response via : Initial Calibration





#5

Vinyl chloride

Concen: 844.709 ug/L

RT: 1.62 min Scan# 86

Delta R.T. 0.00 min

Lab File: VU037878.D

Acq: 24 Apr 2020 17:56

Instrument :

MSVOA_U

ClientSampled :

C0D97

Tot Ion: 62 Resp: 4834451

Ion Ratio Lower Upper

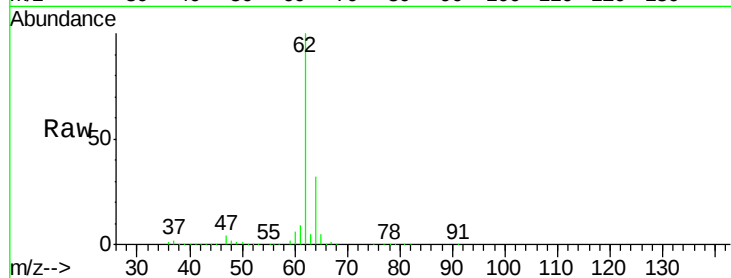
62 100

64 32.2 23.2 43.0

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

Ion 64.00 (63.70 to 64.70): VU037878.D (-66) (-)

1.62

5000000

4000000

3000000

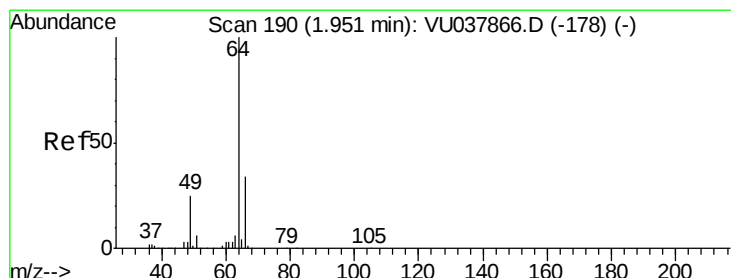
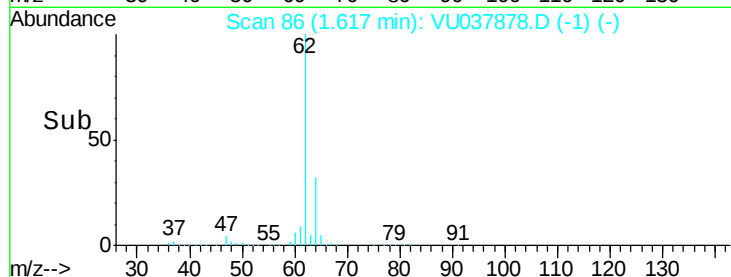
2000000

1000000

0

Time-->

1.55 1.60 1.65 1.70



#8

Chloroethane

Concen: 62.183 ug/L

RT: 1.95 min Scan# 190

Delta R.T. 0.00 min

Lab File: VU037878.D

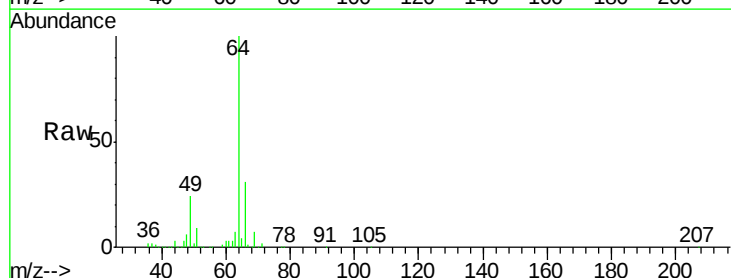
Acq: 24 Apr 2020 17:56

Tgt Ion: 64 Resp: 199957

Ion Ratio Lower Upper

64 100

66 31.2 22.3 41.3



Abundance Ion 64.00 (63.70 to 64.70): VU037866.D (-178) (-)

Ion 66.00 (65.70 to 66.70): VU037878.D (-66) (-)

1.95

150000

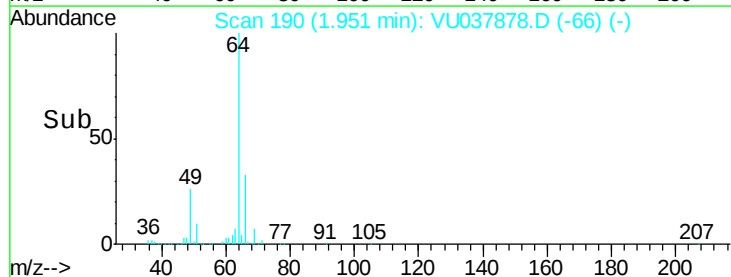
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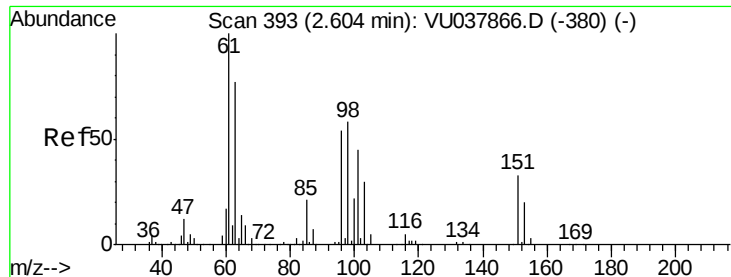
50000

0

Time-->

1.90 1.95 2.00





#12

1,1-Dichloroethene

Concen: 73.399 ug/L

RT: 2.61 min Scan# 394

Delta R.T. 0.00 min

Lab File: VU037878.D

Acq: 24 Apr 2020 17:56

Instrument :

MSVOA_U

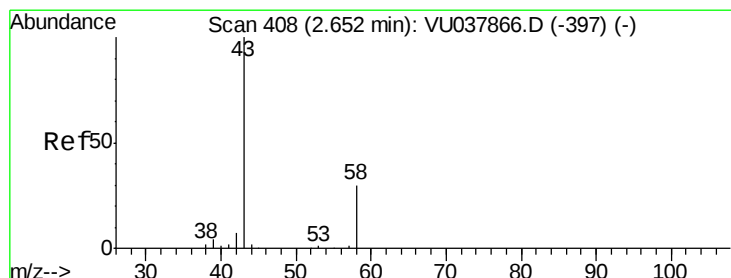
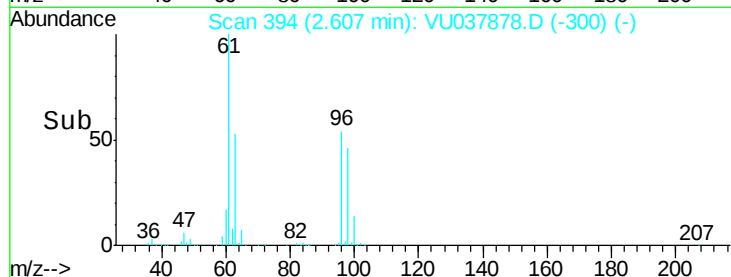
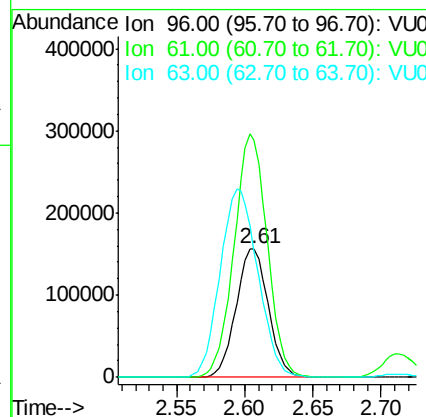
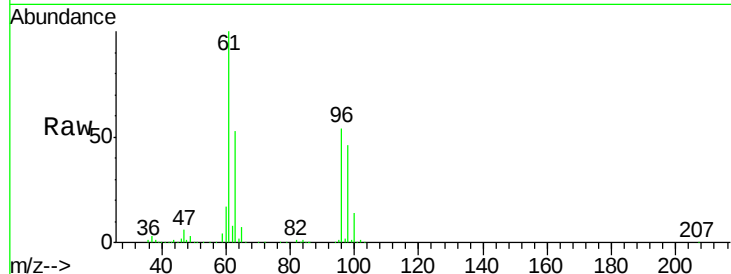
ClientSampleId :

C0D97

Tot Ion:	96	Resp:	257061
Ion	Ratio	Lower	Upper
96	100		
61	184.3	134.1	249.0
63	97.5	96.5	179.1

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#13

Acetone

Concen: 39.662 ug/L

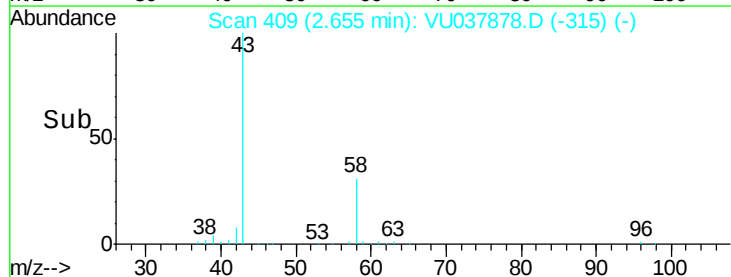
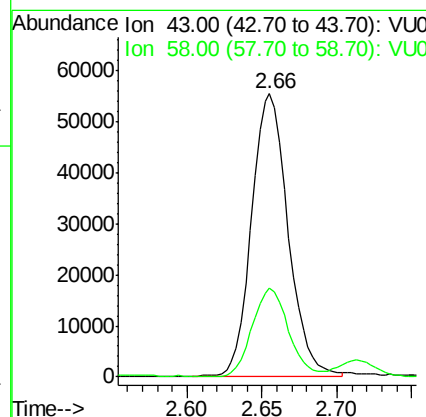
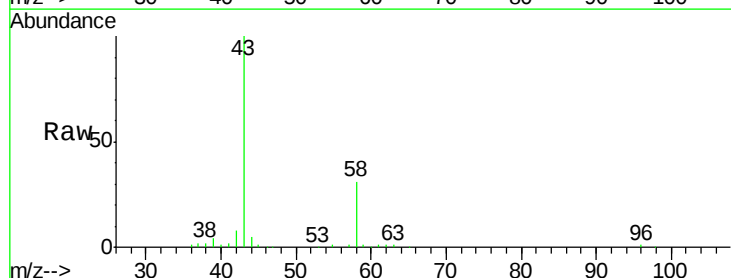
RT: 2.66 min Scan# 409

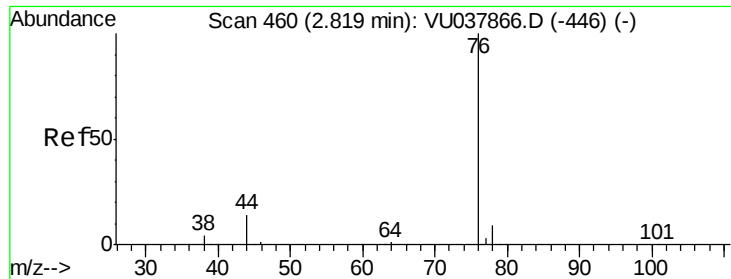
Delta R.T. 0.00 min

Lab File: VU037878.D

Acq: 24 Apr 2020 17:56

Tgt Ion:	43	Resp:	94507
Ion	Ratio	Lower	Upper
43	100		
58	31.1	0.0	62.0





#14

Carbon disulfide

Concen: 3.863 ug/L

RT: 2.83 min Scan# 463

Delta R.T. 0.01 min

Lab File: VU037878.D

Acq: 24 Apr 2020 17:56

Instrument :

MSVOA_U

ClientSampleId :

C0D97

Tot Ion: 76 Resp: 48387

Ion Ratio Lower Upper

76 100

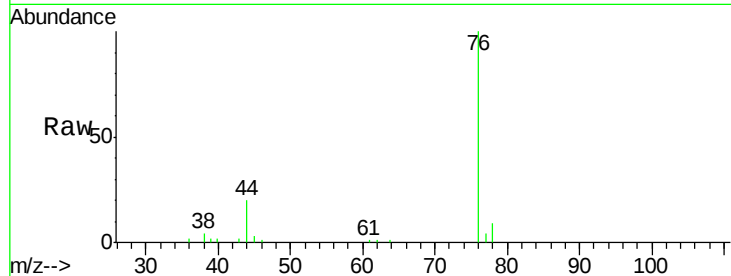
78 9.1 7.4 11.0

Manual Integrations

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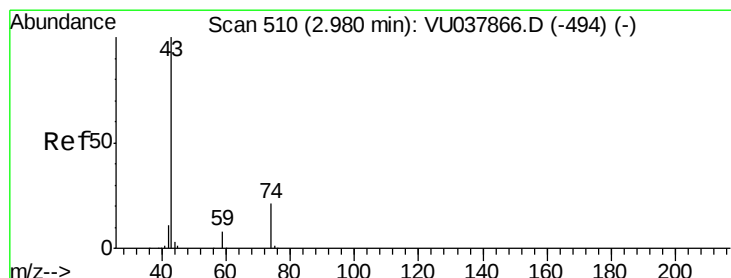
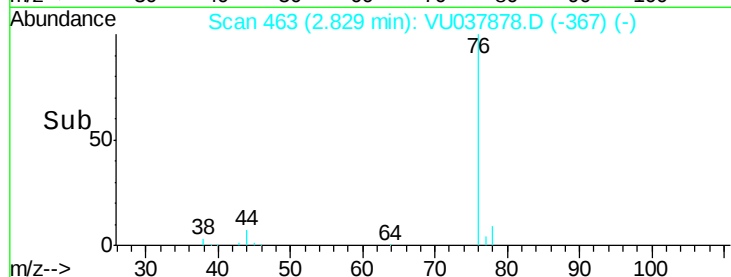
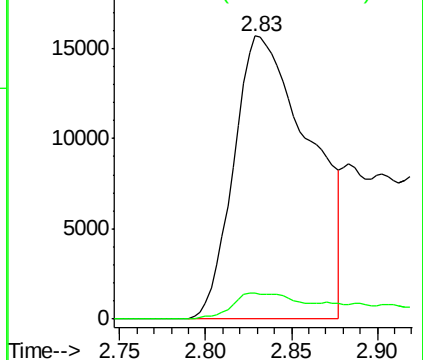
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Abundance Ion 76.00 (75.70 to 76.70): VU0

Ion 78.00 (77.70 to 78.70): VU0



#15

Methyl Acetate

Concen: 1.341 ug/L

RT: 2.98 min Scan# 511

Delta R.T. 0.00 min

Lab File: VU037878.D

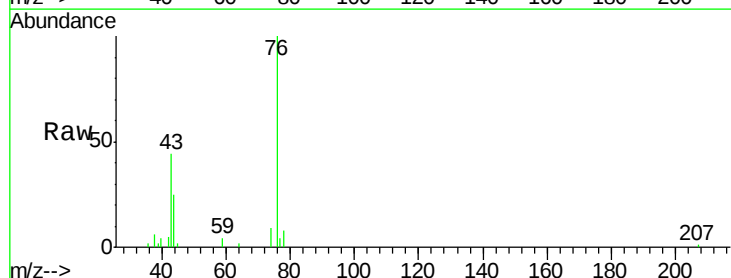
Acq: 24 Apr 2020 17:56

Tgt Ion: 43 Resp: 7725

Ion Ratio Lower Upper

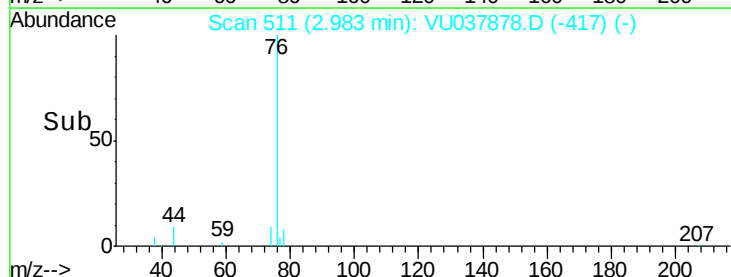
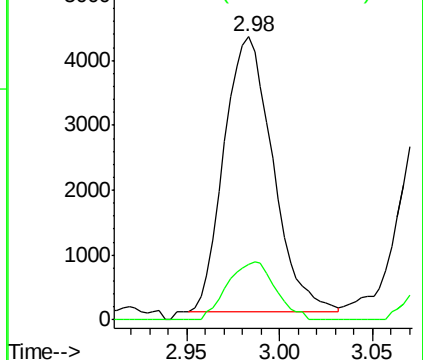
43 100

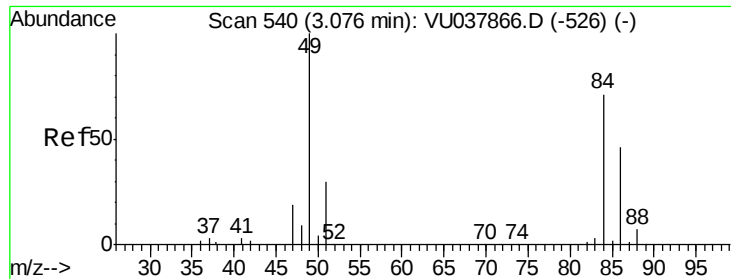
74 20.7 17.0 25.4



Abundance Ion 43.00 (42.70 to 43.70): VU0

Ion 74.00 (73.70 to 74.70): VU0





#16
Methvlene chloride
Concen: 272.485 ug/L
RT: 3.08 min Scan# 540
Delta R.T. 0.00 min
Lab File: VU037878.D
Acq: 24 Apr 2020 17:56

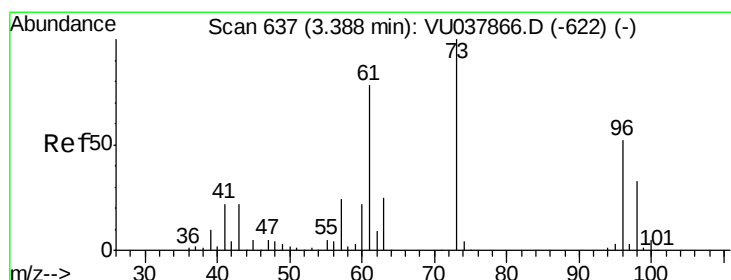
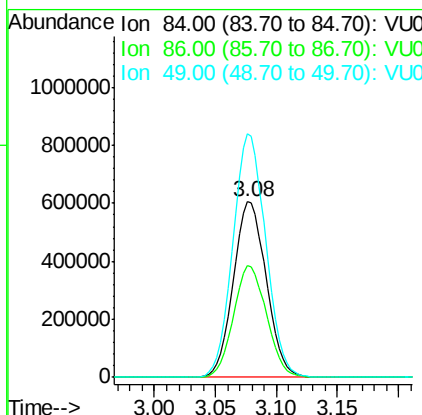
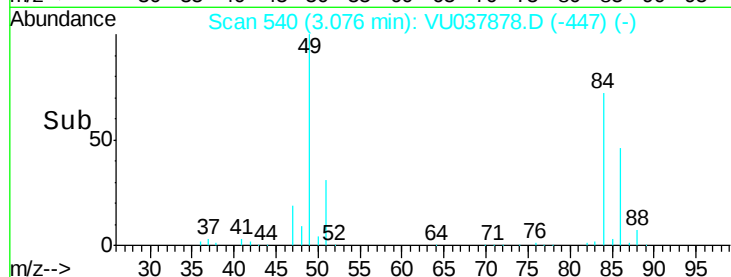
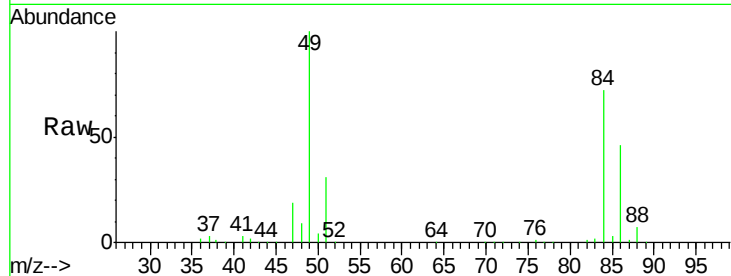
Instrument :
MSVOA_U
ClientSampled :
C0D97

Tot Ion: 84 Resp: 1133972

Ion	Ratio	Lower	Upper
84	100		
86	63.4	43.5	80.7
49	138.6	95.1	176.7

Manual Integrations
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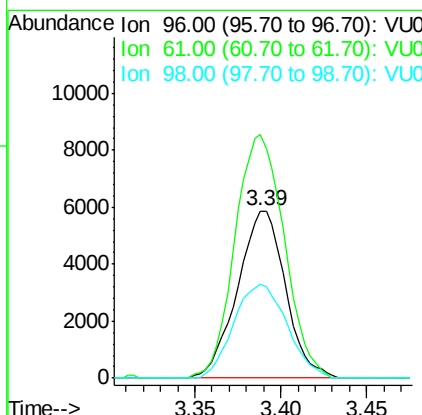
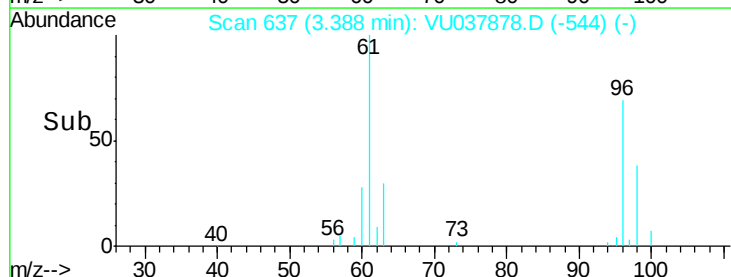
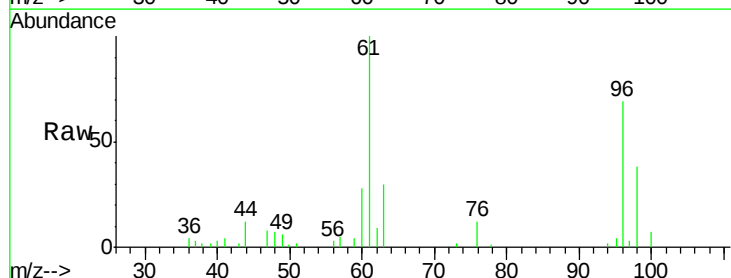
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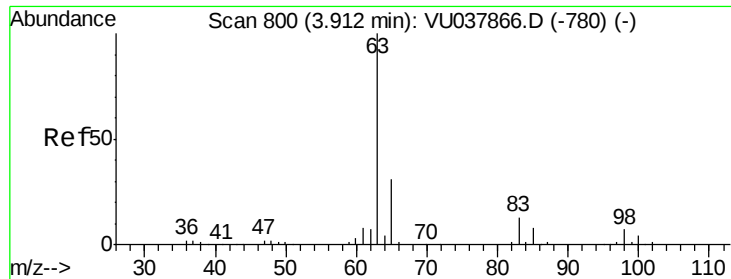


#17
trans-1,2-Dichloroethene
Concen: 2.913 ug/L
RT: 3.39 min Scan# 637
Delta R.T. 0.00 min
Lab File: VU037878.D
Acq: 24 Apr 2020 17:56

Tgt Ion: 96 Resp: 11409

Ion	Ratio	Lower	Upper
96	100		
61	145.8	111.4	207.0
98	56.1	43.9	81.5





#19

1,1-Dichloroethane

Concen: 322.325 ug/L

RT: 3.91 min Scan# 800

Delta R.T. 0.00 min

Lab File: VU037878.D

Acq: 24 Apr 2020 17:56

Instrument :

MSVOA_U

ClientSampled :

C0D97

Tot Ion: 63 Resp: 2544323

Ion Ratio Lower Upper

63 100

65 31.6 22.2 41.2

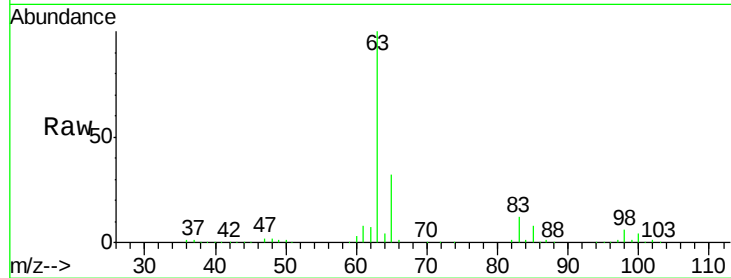
83 12.4 8.6 16.0

Manual Integrations

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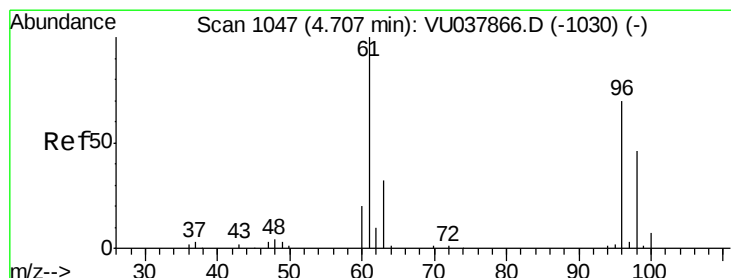
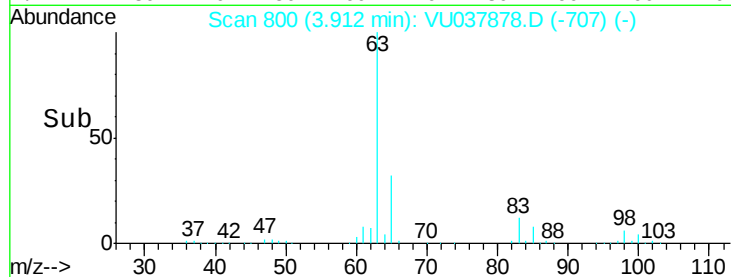
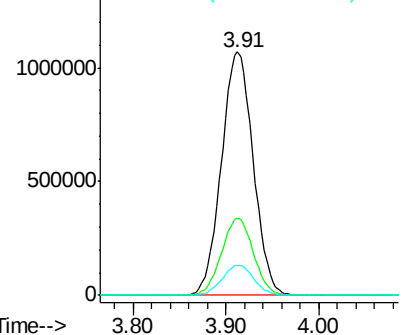
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Abundance Ion 63.00 (62.70 to 63.70): VU037866.D (-780) (-)

Ion 65.00 (64.70 to 65.70): VU037866.D (-780) (-)

Ion 83.00 (82.70 to 83.70): VU037866.D (-780) (-)



#20

cis-1,2-Dichloroethene

Concen: 2219.308 ug/L

RT: 4.71 min Scan# 1048

Delta R.T. 0.00 min

Lab File: VU037878.D

Acq: 24 Apr 2020 17:56

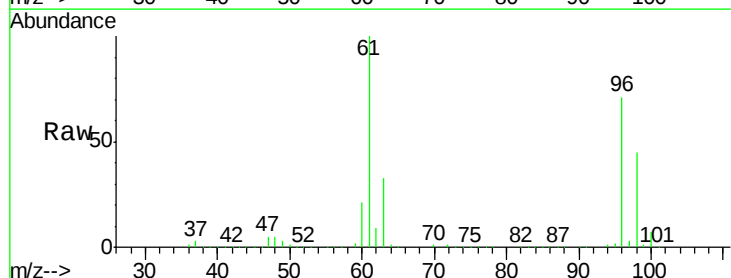
Tgt Ion: 96 Resp: 9515430

Ion Ratio Lower Upper

96 100

61 140.8 100.4 186.4

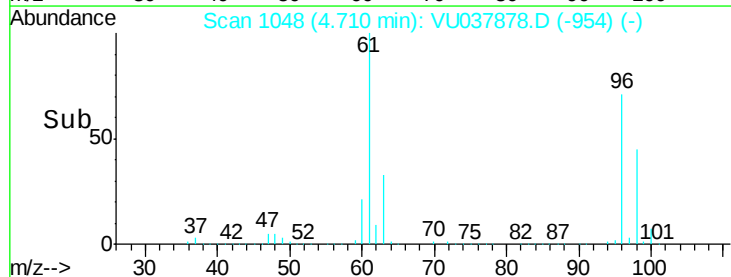
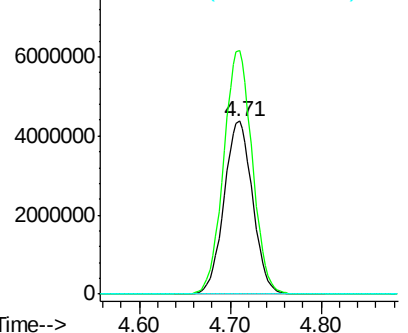
68 0.0 0.0 0.0

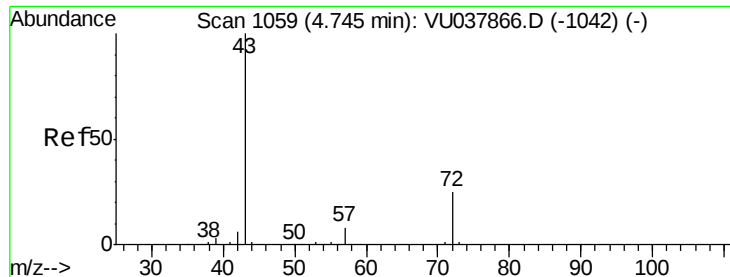


Abundance Ion 96.00 (95.70 to 96.70): VU037866.D (-1030) (-)

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: 20.357 ug/L

RT: 4.75 min Scan# 1060

Delta R.T. 0.00 min

Lab File: VU037878.D

Acq: 24 Apr 2020 17:56

Instrument :

MSVOA_U

ClientSampled :

C0D97

Tot Ion: 43 Resp: 84938

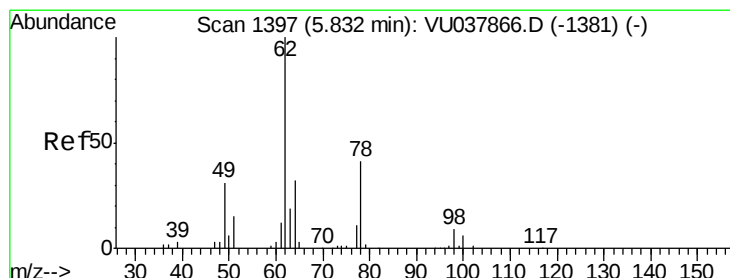
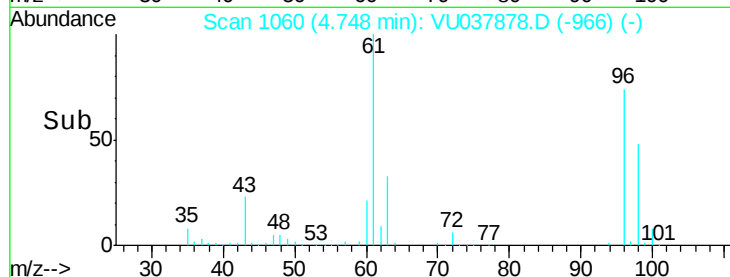
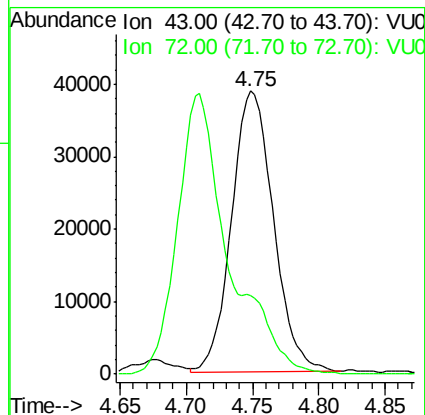
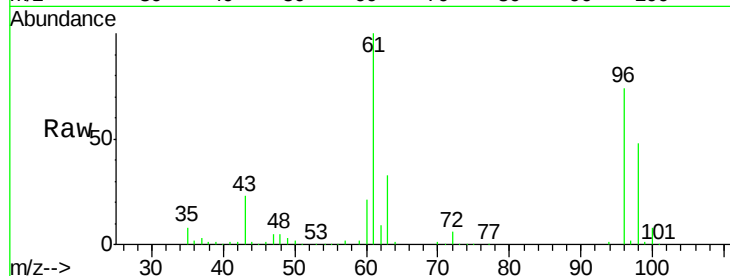
Ion Ratio Lower Upper

43 100

72 0.0 12.6 37.6#

Manual Integrations
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#27

1,2-Dichloroethane

Concen: 3.361 ug/L

RT: 5.83 min Scan# 1396

Delta R.T. -0.00 min

Lab File: VU037878.D

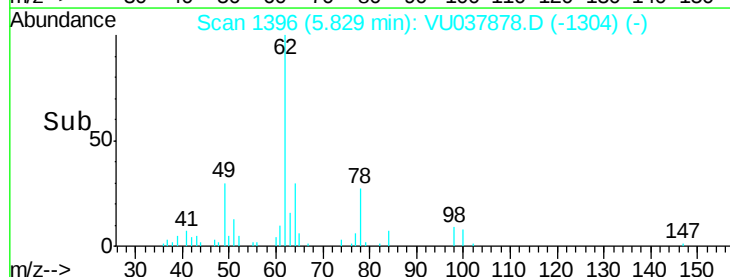
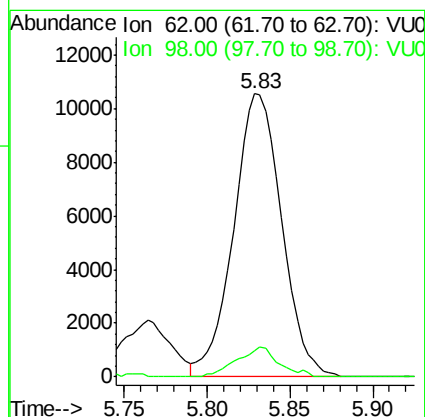
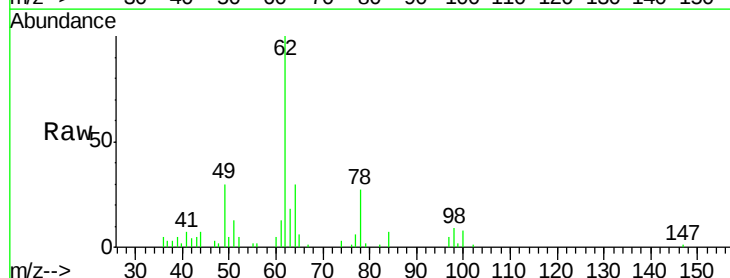
Acq: 24 Apr 2020 17:56

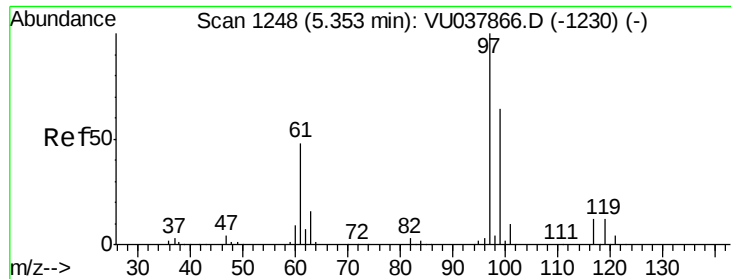
Tgt Ion: 62 Resp: 21261

Ion Ratio Lower Upper

62 100

98 9.2 7.3 10.9





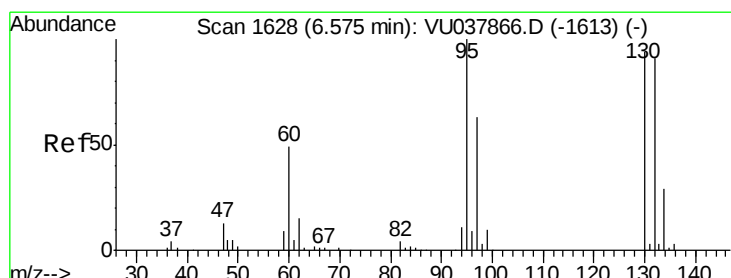
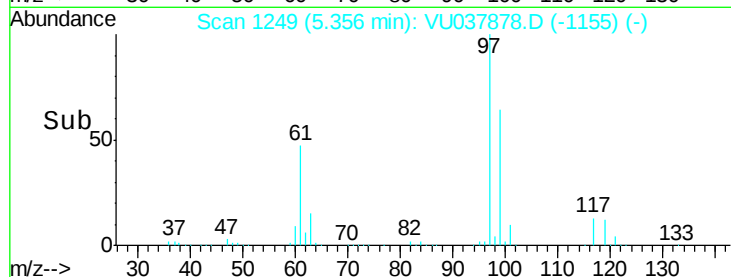
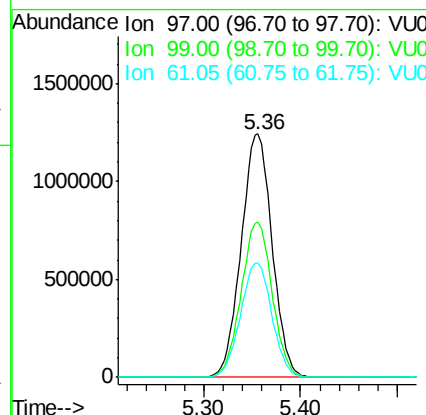
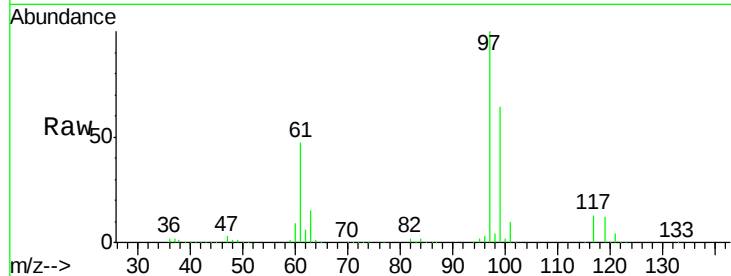
#30
 1,1,1-Trichloroethane
 Concen: 439.018 ug/L
 RT: 5.36 min Scan# 1249
 Delta R.T. 0.00 min
 Lab File: VU037878.D
 Acq: 24 Apr 2020 17:56

Instrument :
 MSVOA_U
 ClientSampleId :
 C0D97

Tot Ion: 97 Resp: 2760728
 Ion Ratio Lower Upper
 97 100
 99 64.0 50.7 76.1
 61 47.6 38.9 58.3

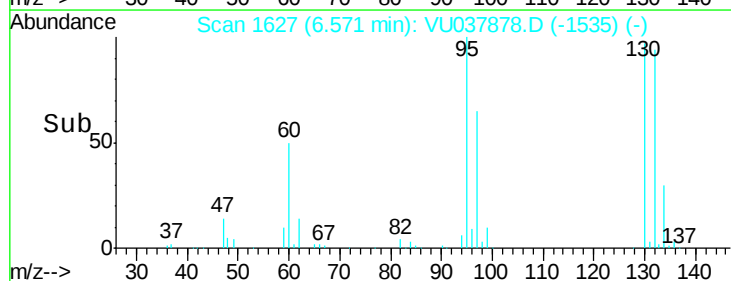
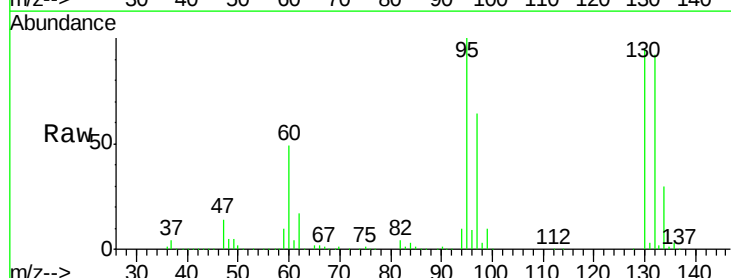
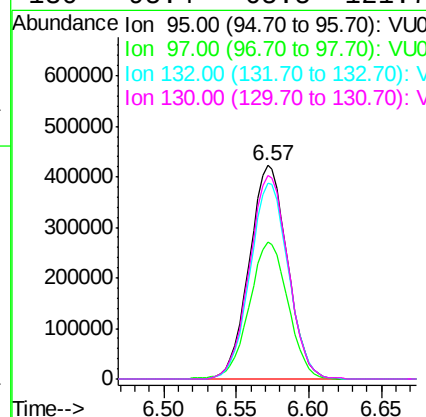
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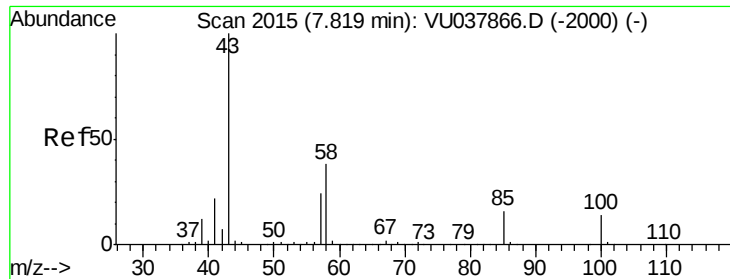
MMDadoda
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#34
 Trichloroethene
 Concen: 184.942 ug/L
 RT: 6.57 min Scan# 1627
 Delta R.T. -0.00 min
 Lab File: VU037878.D
 Acq: 24 Apr 2020 17:56

Tgt Ion: 95 Resp: 775310
 Ion Ratio Lower Upper
 95 100
 97 64.0 44.4 82.5
 132 91.8 65.0 120.6
 130 95.4 65.5 121.7





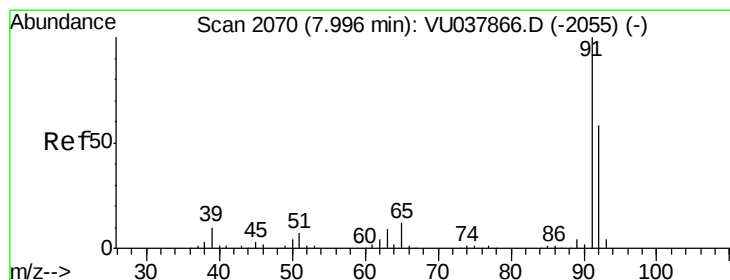
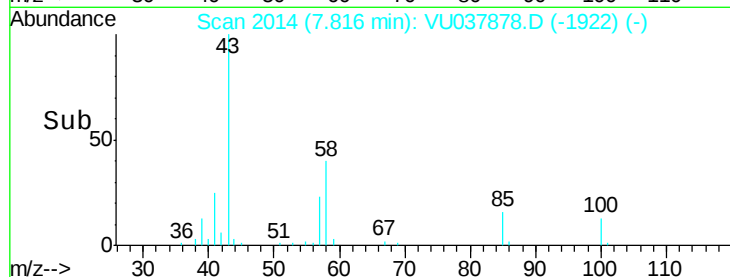
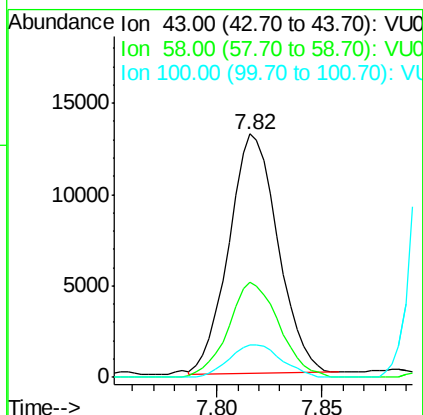
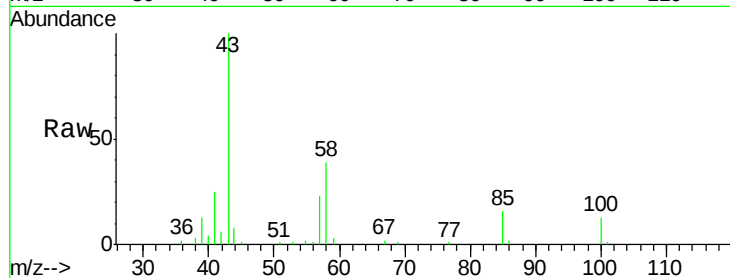
#40
4-Methyl-2-pentanone
Concen: 2.616 ug/L
RT: 7.82 min Scan# 2014
Delta R.T. -0.00 min
Lab File: VU037878.D
Acq: 24 Apr 2020 17:56

Instrument :
MSVOA_U
ClientSampleId :
C0D97

Tot Ion	Ratio	Lower	Upper
43	100		
58	40.8	30.2	45.2
100	14.3	10.9	16.3

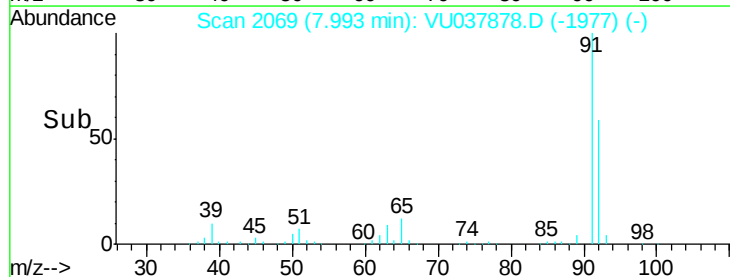
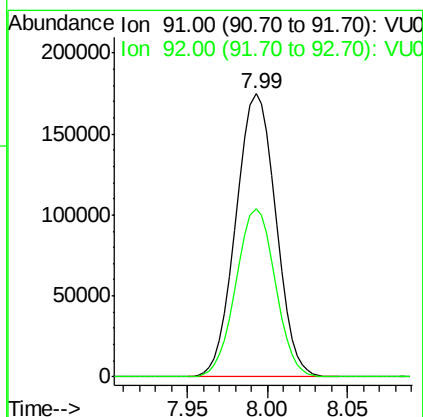
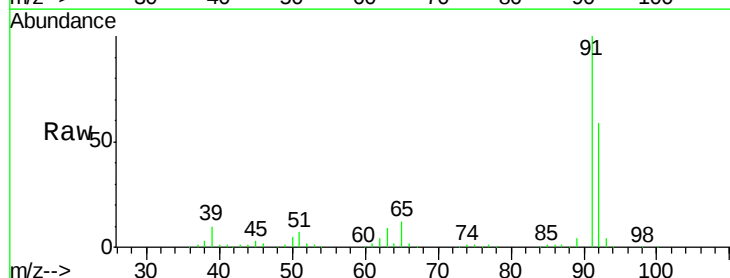
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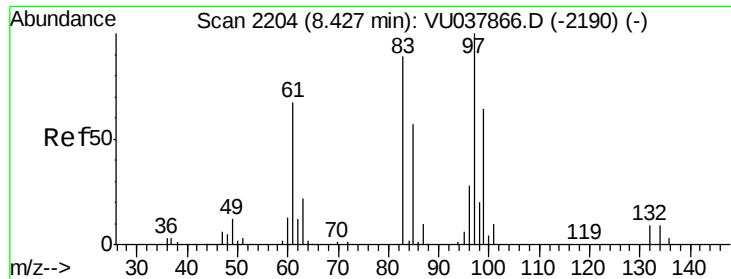
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#42
Toluene
Concen: 16.632 ug/L
RT: 7.99 min Scan# 2069
Delta R.T. -0.00 min
Lab File: VU037878.D
Acq: 24 Apr 2020 17:56

Tgt Ion	Ratio	Lower	Upper
91	100		
92	59.5	41.2	76.6





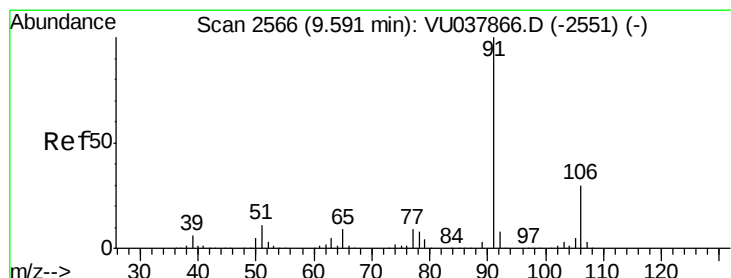
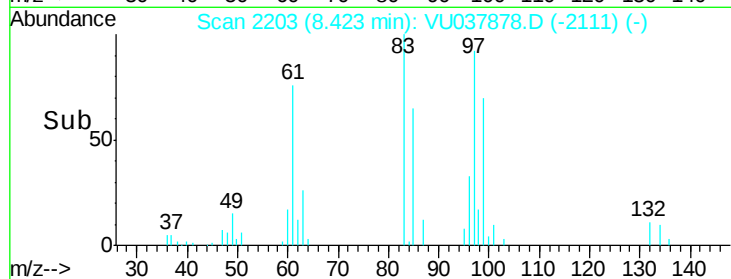
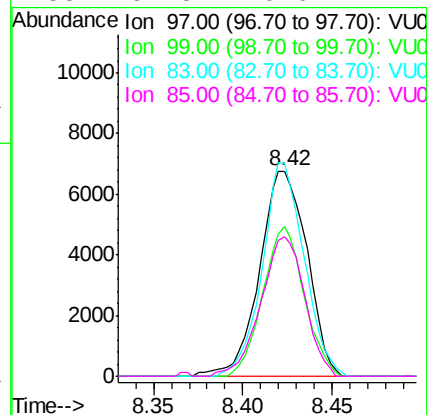
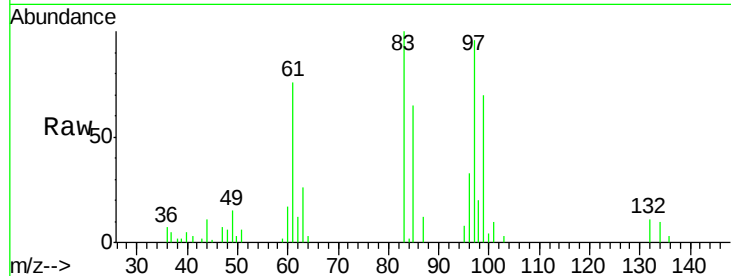
#45
 1,1,2-Trichloroethane
 Concen: 3.086 ug/L
 RT: 8.42 min Scan# 2203
 Delta R.T. -0.00 min
 Lab File: VU037878.D
 Acq: 24 Apr 2020 17:56

Instrument :
 MSVOA_U
 ClientSampleId :
 C0D97

Tot Ion	Ion	Ratio	Resp	Lower	Upper
97	100		12565		
99	72.9	44.0	81.6		
83	103.7	62.6	116.2		
85	67.8	40.0	74.4		

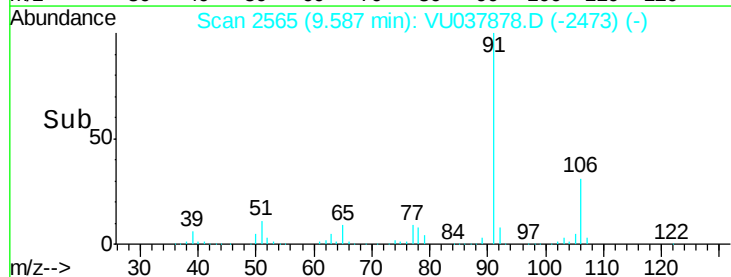
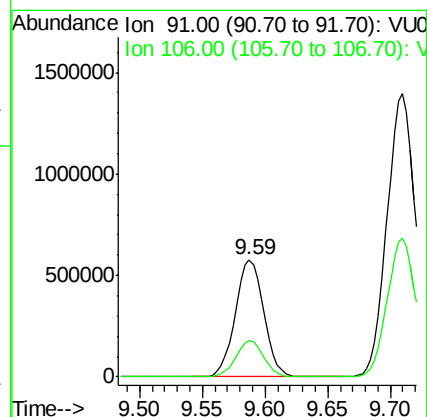
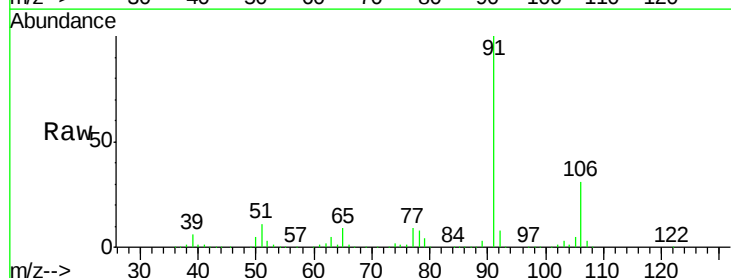
Manual Integrations
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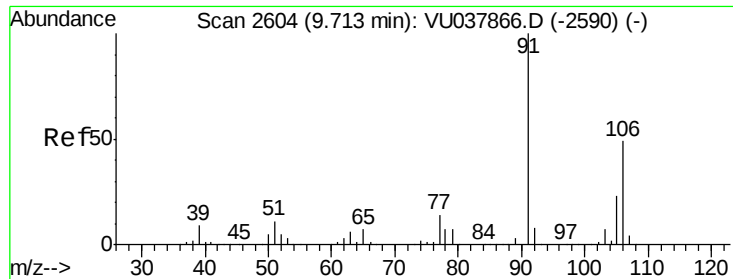
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#52
 Ethylbenzene
 Concen: 45.384 ug/L
 RT: 9.59 min Scan# 2565
 Delta R.T. -0.00 min
 Lab File: VU037878.D
 Acq: 24 Apr 2020 17:56

Tgt Ion	Ion	Ratio	Resp	Lower	Upper
91	100		910696		
106	30.8	21.1	39.1		





#53

m,p-Xylene

Concen: 145.443 ug/L

RT: 9.71 min Scan# 2603

Delta R.T. -0.00 min

Lab File: VU037878.D

Acq: 24 Apr 2020 17:56

Instrument :

MSVOA_U

ClientSampleId :

C0D97

Tot Ion:106 Resp: 1098847

Ion Ratio Lower Upper

106 100

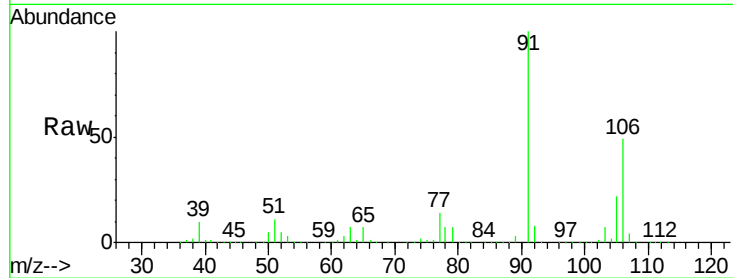
91 203.2 142.8 265.2

Manual Integrations

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Abundance Ion 106.00 (105.70 to 106.70): V

Ion 91.00 (90.70 to 91.70): VU0

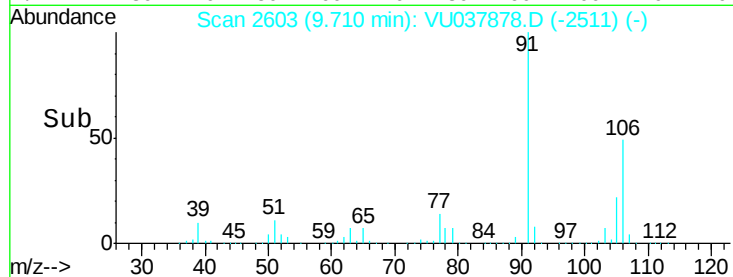
1500000

1000000

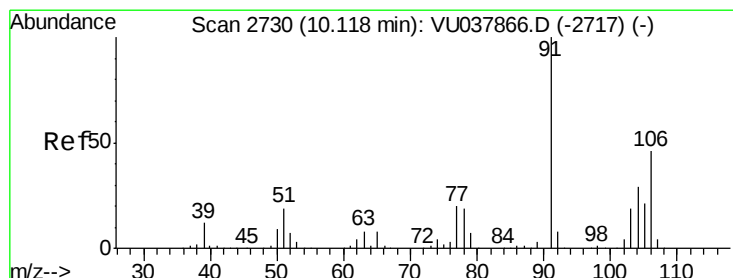
500000

0

9.65 9.70 9.75 9.80



Time-->



#54

o-xylene

Concen: 45.002 ug/L

RT: 10.11 min Scan# 2729

Delta R.T. -0.00 min

Lab File: VU037878.D

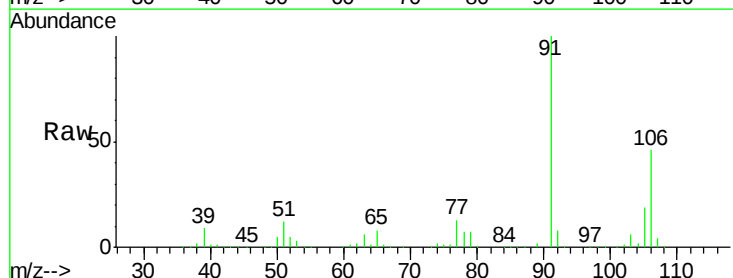
Acq: 24 Apr 2020 17:56

Tgt Ion:106 Resp: 332523

Ion Ratio Lower Upper

106 100

91 216.1 150.6 279.6



Abundance Ion 106.00 (105.70 to 106.70): V

Ion 91.00 (90.70 to 91.70): VU0

500000

400000

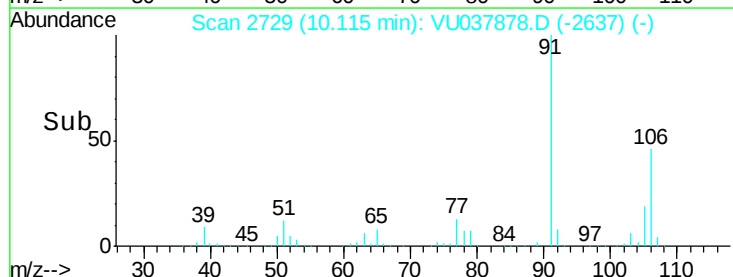
300000

200000

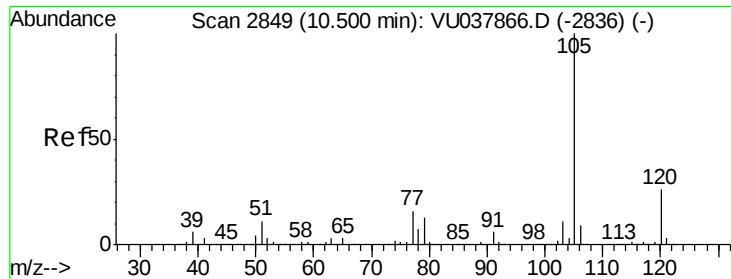
100000

0

10.10 10.11 10.12 10.13 10.14 10.15 10.16 10.17 10.18 10.19 10.20



Time-->



#56
Isopropylbenzene
Concen: 6.996 ug/L
RT: 10.50 min Scan# 2849
Delta R.T. 0.00 min
Lab File: VU037878.D
Acq: 24 Apr 2020 17:56

Instrument :
MSVOA_U
ClientSampleId :
C0D97

Tot Ion	Ratio	Resp Lower	Resp Upper
105	100		
120	26.4	20.6	31.0
77	16.1	13.0	19.4

Manual Integrations
APPROVED

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