

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 :
 C0D98

Manual Integrations
 APPROVED

MMDadoda
 4/28/2020 12:02:16 PM

Quant Time: Apr 25 04:00:59 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

					Ovalue
5) Vinyl chloride	1.62	62	80199	13.179	ug/L 88
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
20) cis-1,2-Dichloroethene	4.71	96	19955677m	4377.270	ug/L
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
34) Trichloroethene	6.57	95	67164704m	14149.099	ug/L
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

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Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
46) Tetrachloroethene	8.57	164	34806	10.032	ug/L	98
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
56) Isopropylbenzene	10.50	105	53268	2.406	ug/L	99

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

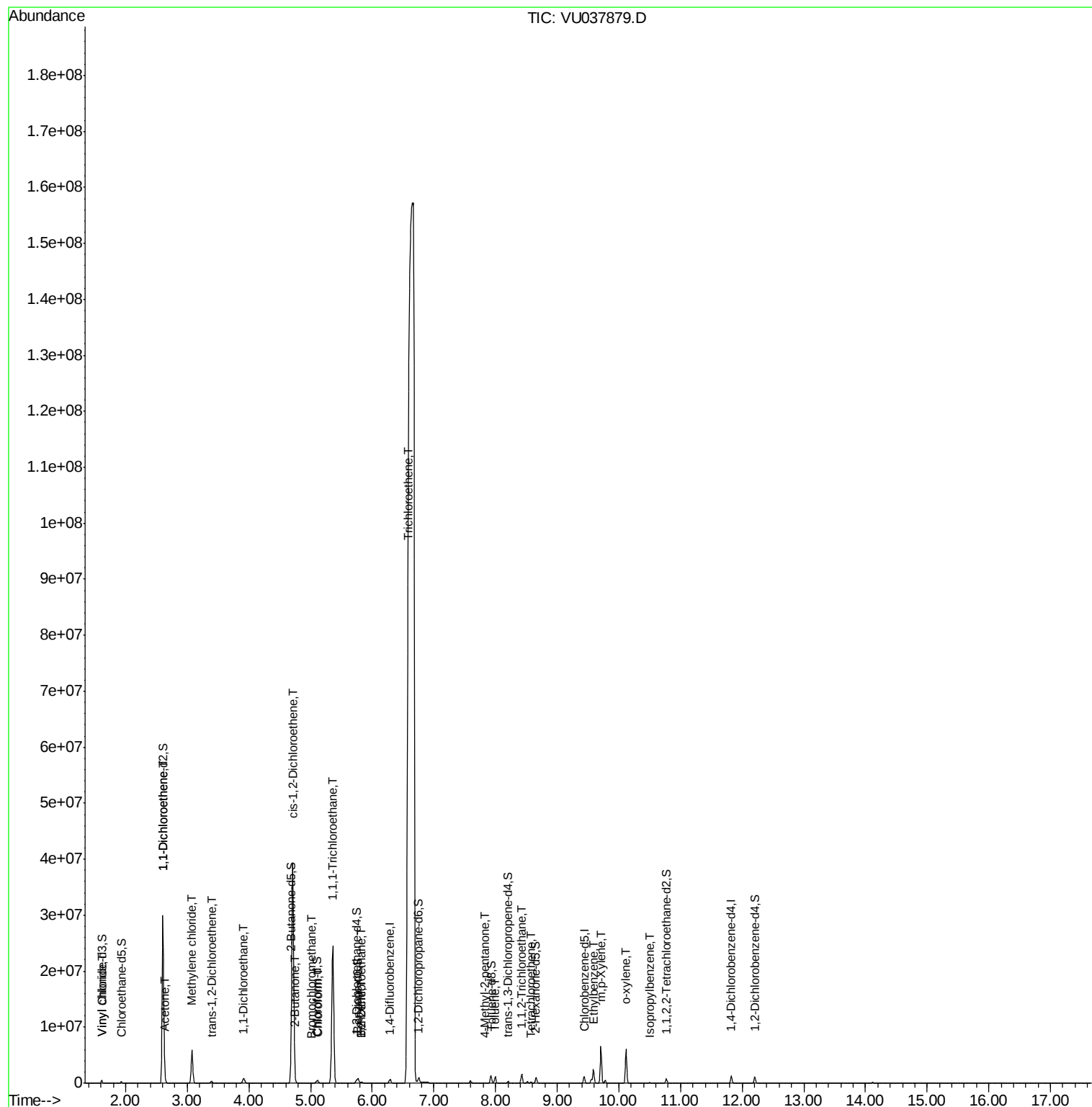
Data Path : Z:\V0ASRV\HPCHEM1\MSVOA U\DATA\VU042420\
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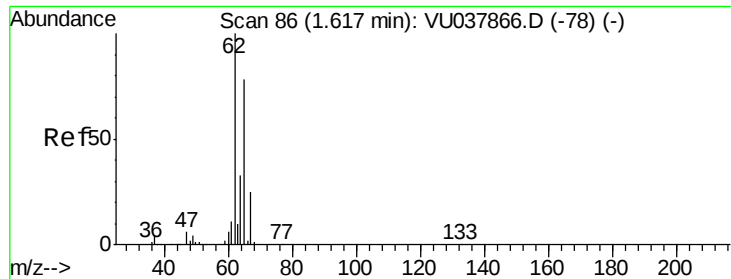
Instrument :
MSVOA_U
ClientSampleId :
C0D98

Manual Integrations
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Quant Method : Z:\V0ASRV\HPCHEM1\MSVOA_U\METHOD\SOMULM042320WMA.M
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QLast Update : Sat Apr 25 01:13:34 2020
Response via : Initial Calibration





#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 :

C0D98

Tot Ion: 62 Resp: 80199

Ion Ratio Lower Upper

62 100

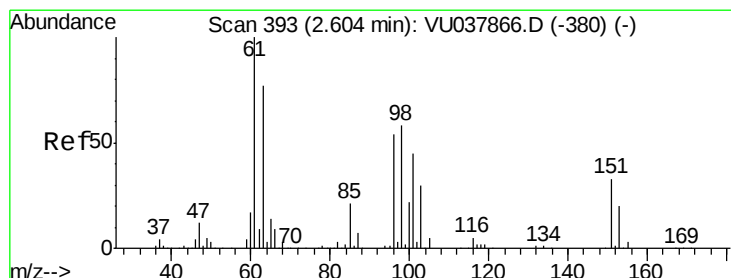
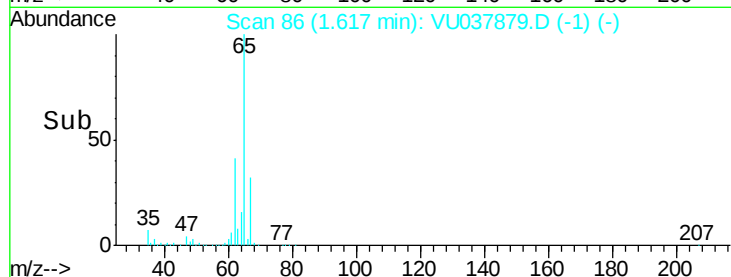
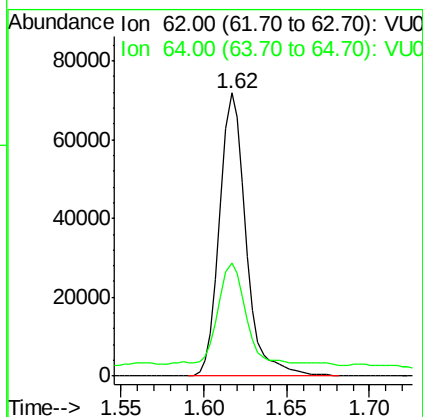
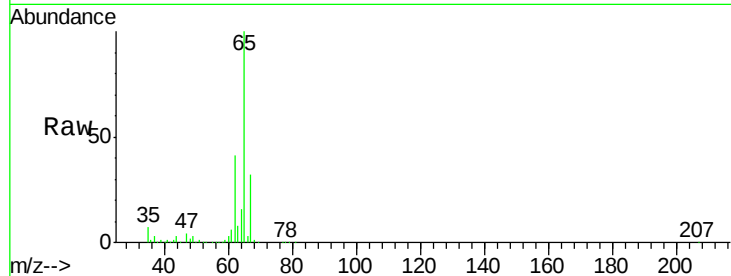
64 40.0 23.2 43.0

Manual Integrations

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#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

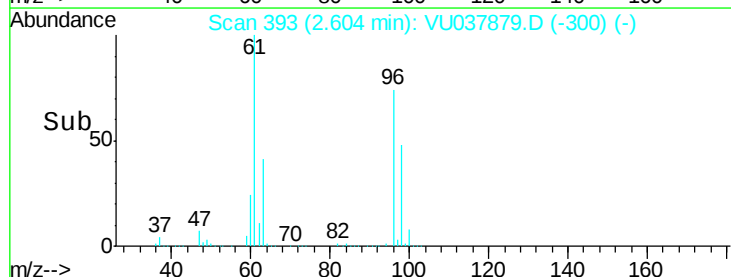
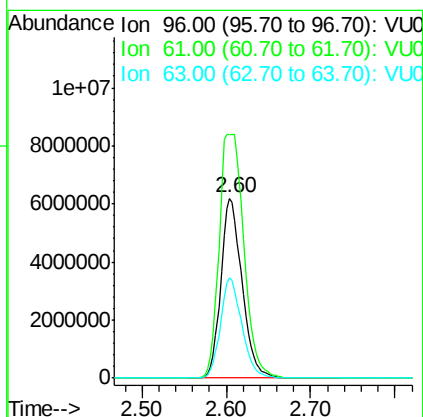
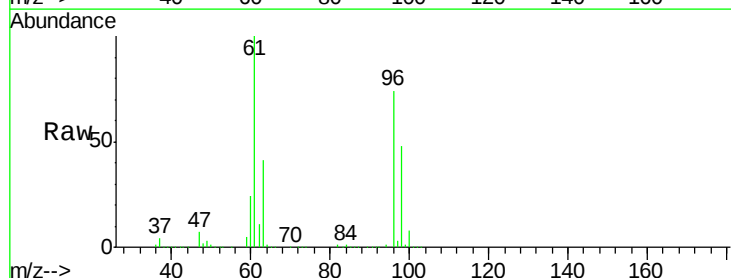
Tgt Ion: 96 Resp: 10786556

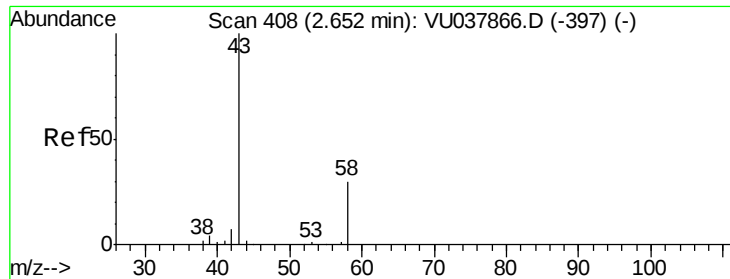
Ion Ratio Lower Upper

96 100

61 135.2 134.1 249.0

63 55.7 96.5 179.1#





#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

Instrument :

MSVOA_U

ClientSampled :

C0D98

Tot Ion: 43 Resp: 7383

Ion Ratio Lower Upper

43 100

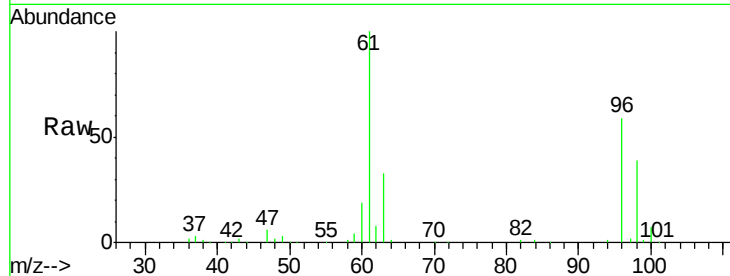
58 28.5 0.0 62.0

Manual Integrations

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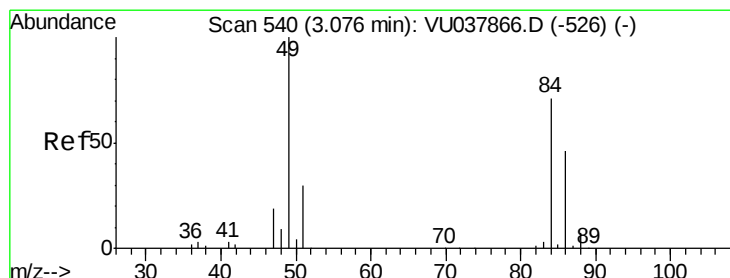
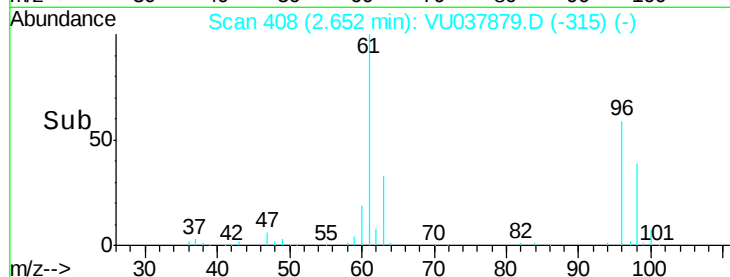
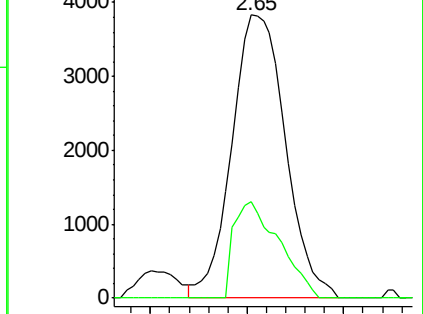
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Abundance Ion 43.00 (42.70 to 43.70): VU037866.D (-397) (-)

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



#16

Methylene 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

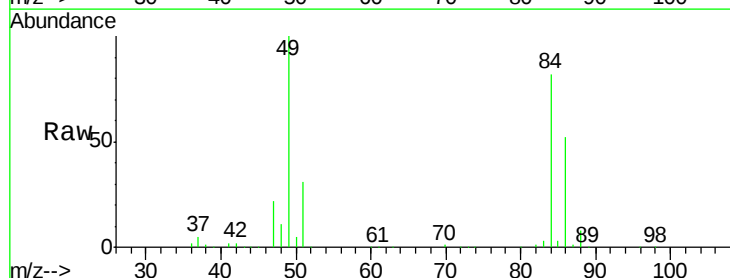
Tgt Ion: 84 Resp: 2742206

Ion Ratio Lower Upper

84 100

86 64.0 43.5 80.7

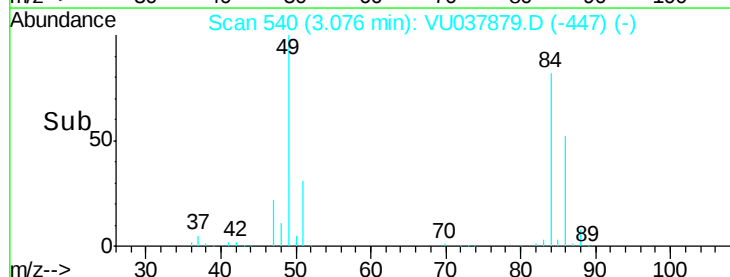
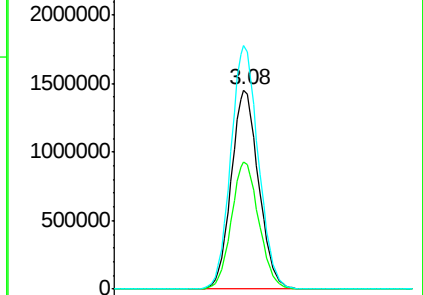
49 122.3 95.1 176.7

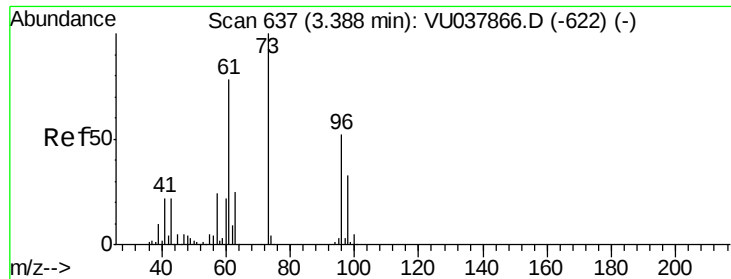


Abundance Ion 84.00 (83.70 to 84.70): VU037866.D (-526) (-)

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

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





#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

Instrument :

MSVOA_U

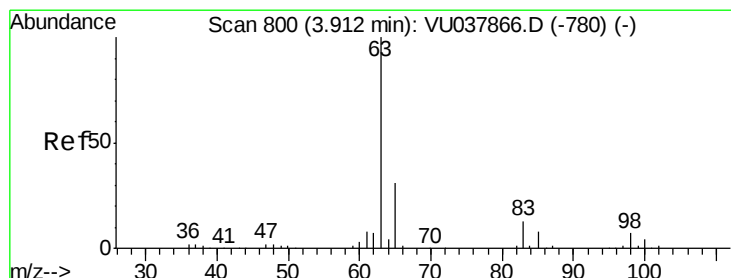
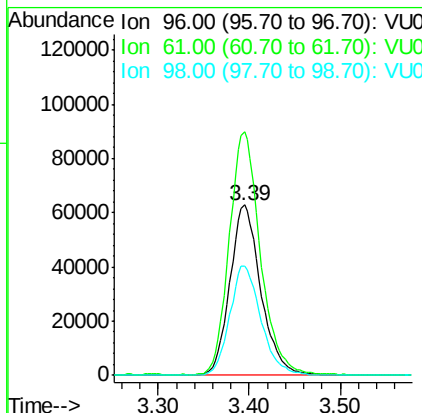
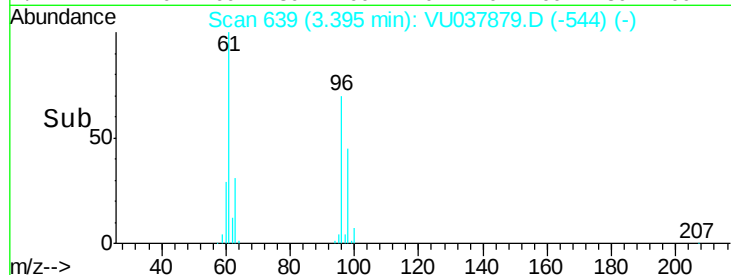
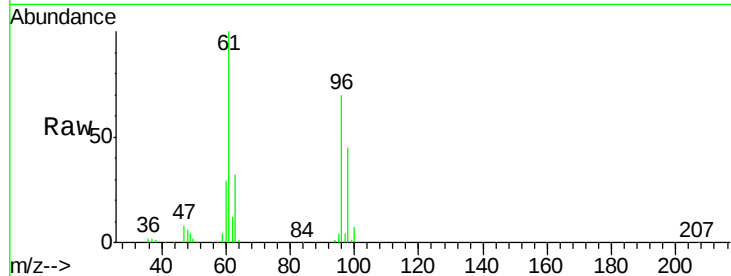
ClientSampled :

C0D98

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

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#19

1,1-Dichloroethane

Concen: 114.416 ug/L

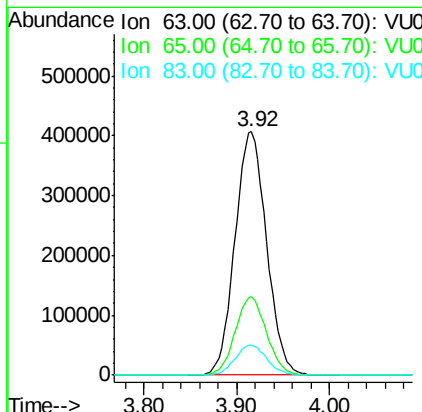
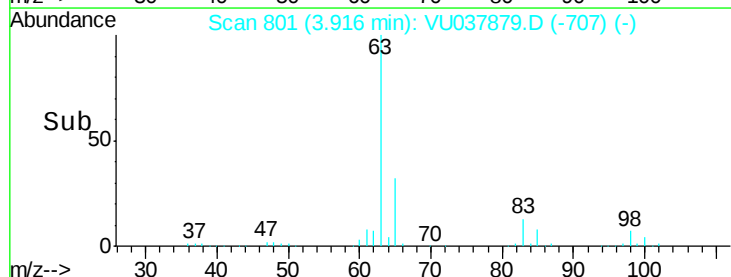
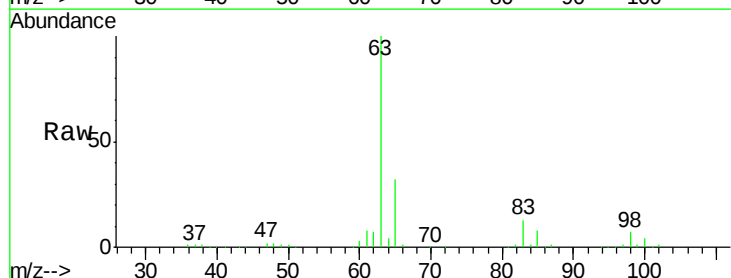
RT: 3.92 min Scan# 801

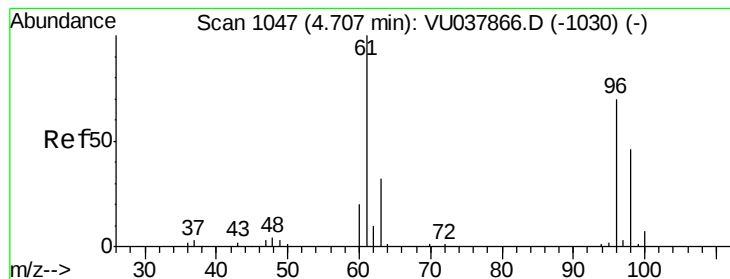
Delta R.T. 0.00 min

Lab File: VU037879.D

Acq: 24 Apr 2020 18:19

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





#20

cis-1,2-Dichloroethene

Concen: 4377.270 ug/L m

RT: 4.71 min Scan# 1047

Delta R.T. 0.00 min

Lab File: VU037879.D

Acq: 24 Apr 2020 18:19

Instrument :

MSVOA_U

ClientSampleId :

C0D98

Tot Ion: 96 Resp:19955677

Ion Ratio Lower Upper

96 100

61 100.0 100.4 186.4#

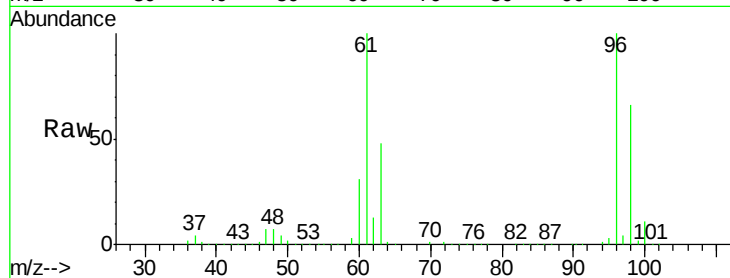
68 0.0 0.0 0.0

Manual Integrations

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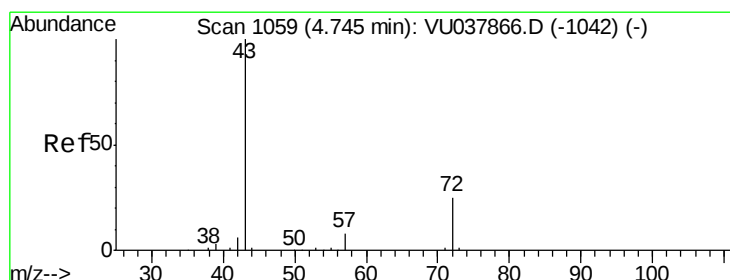
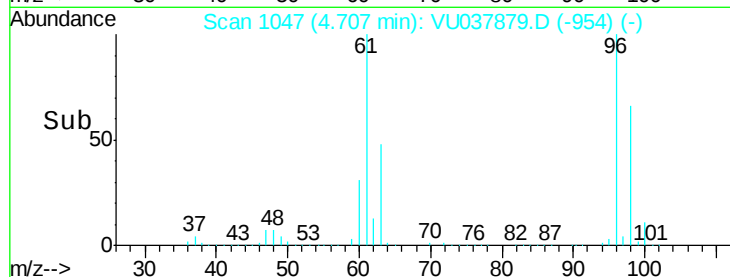
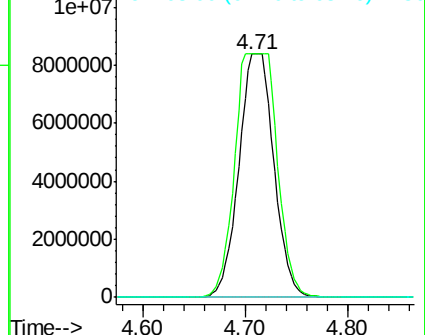
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Abundance Ion 96.00 (95.70 to 96.70): VU037879.D (-954) (-)

Ion 61.00 (60.70 to 61.70): VU037879.D (-954) (-)

Ion 68.00 (67.70 to 68.70): VU037879.D (-954) (-)



#22

2-Butanone

Concen: 1.911 ug/L

RT: 4.76 min Scan# 1063

Delta R.T. 0.01 min

Lab File: VU037879.D

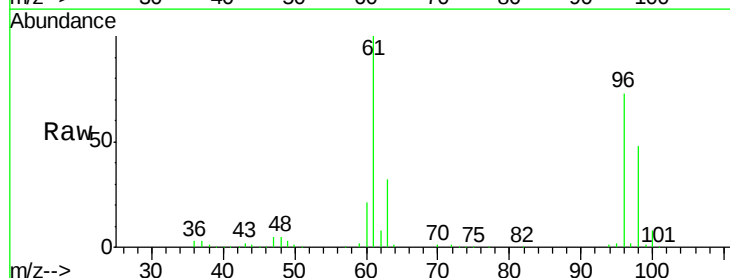
Acq: 24 Apr 2020 18:19

Tgt Ion: 43 Resp: 8476

Ion Ratio Lower Upper

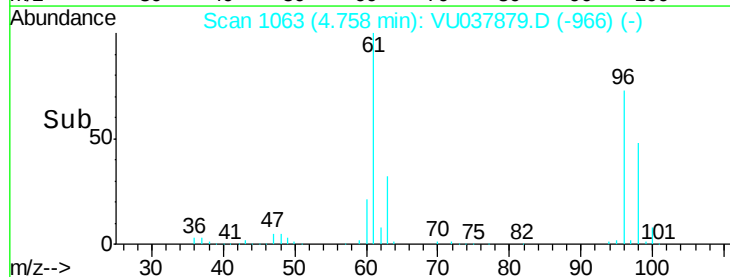
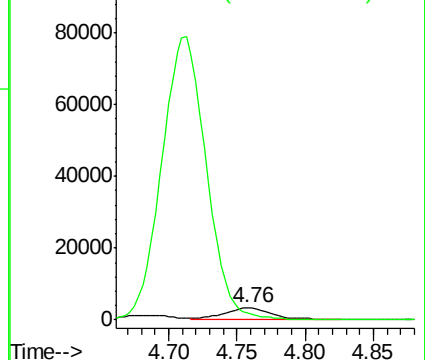
43 100

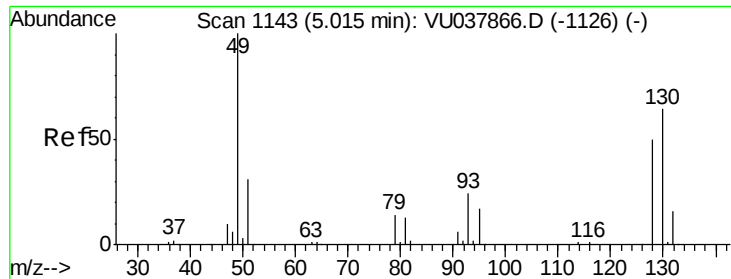
72 0.8 12.6 37.6#



Abundance Ion 43.00 (42.70 to 43.70): VU037879.D (-966) (-)

Ion 72.00 (71.70 to 72.70): VU037879.D (-966) (-)





#23

Bromochloromethane

Concen: 2.913 ug/L

RT: 5.02 min Scan# 1145

Delta R.T. 0.01 min

Lab File: VU037879.D

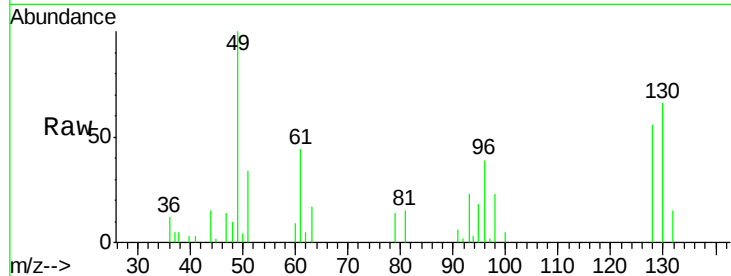
Acq: 24 Apr 2020 18:19

Instrument :

MSVOA_U

ClientSampled :

C0D98



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

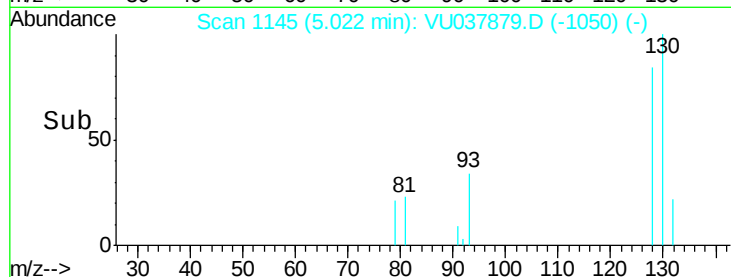
51 61.0 50.0 75.0

Manual Integrations

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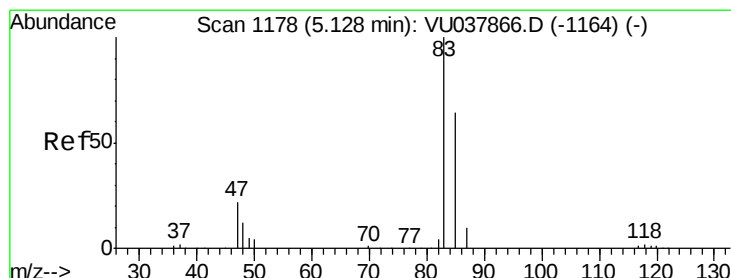
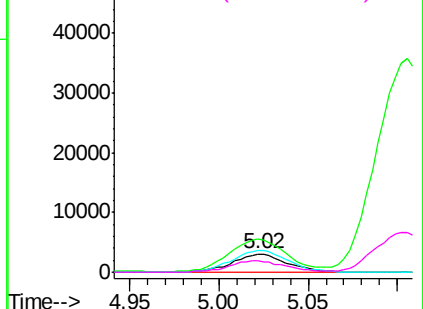


Abundance Ion 128.00 (127.70 to 128.70): V

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

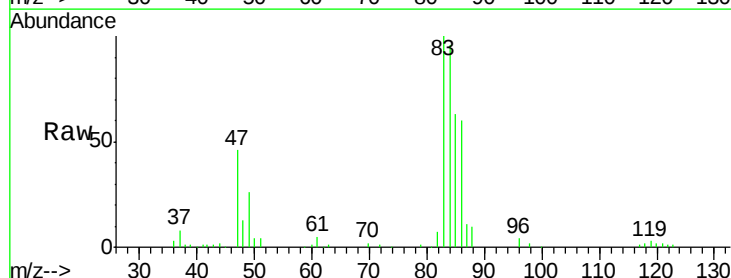
Acq: 24 Apr 2020 18:19

Tgt Ion: 83 Resp: 101686

Ion Ratio Lower Upper

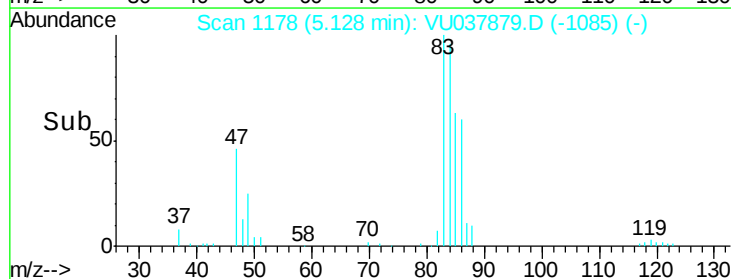
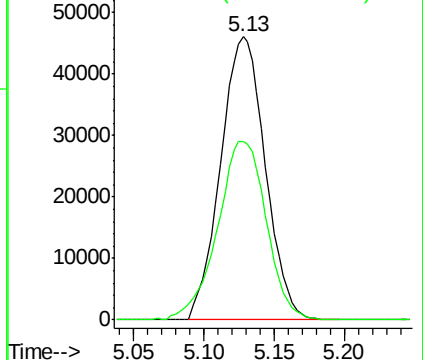
83 100

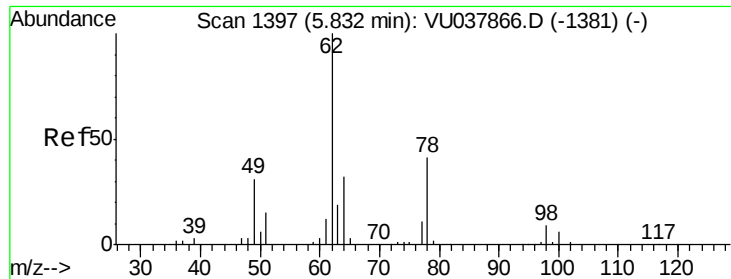
85 63.1 45.1 83.9



Abundance Ion 83.00 (82.70 to 83.70): VU0

Ion 85.00 (84.70 to 85.70): VU0





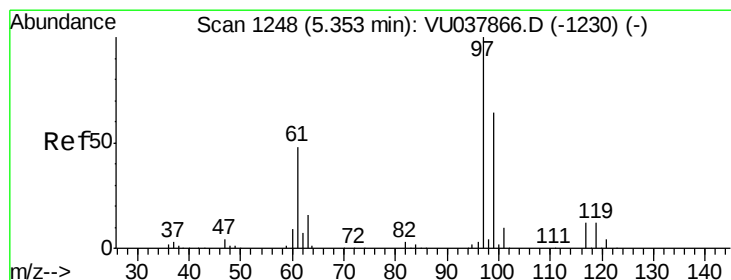
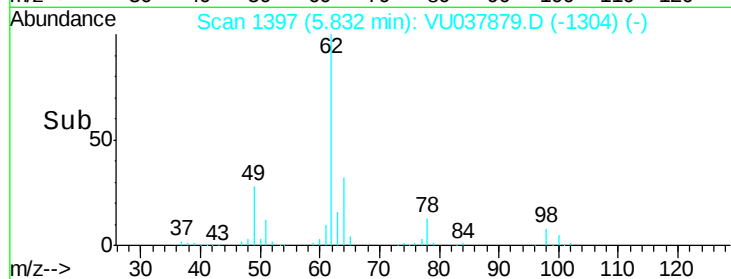
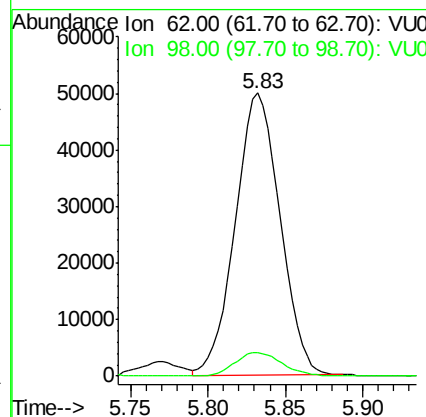
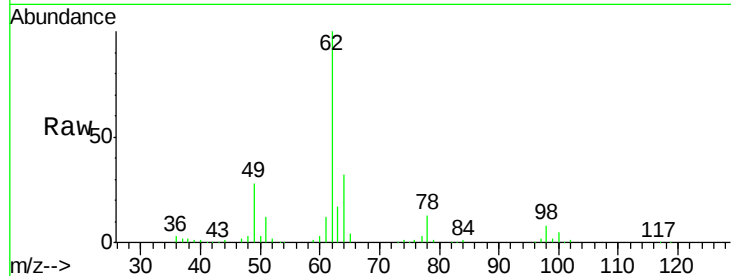
#27
 1,2-Dichloroethane
 Concen: 14.949 ug/L
 RT: 5.83 min Scan# 1397
 Delta R.T. 0.00 min
 Lab File: VU037879.D
 Acq: 24 Apr 2020 18:19

Instrument :
 MSVOA_U
 ClientSampled :
 C0D98

Tot Ion	Ratio	Lower	Upper
62	100		
98	8.4	7.3	10.9

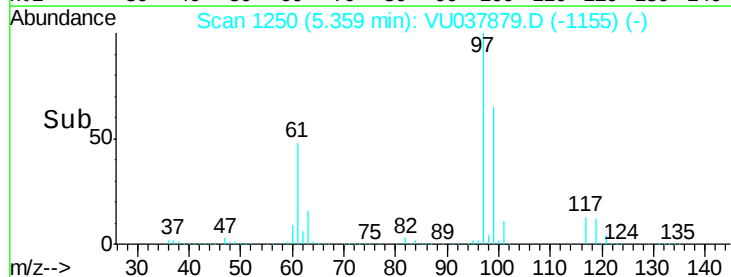
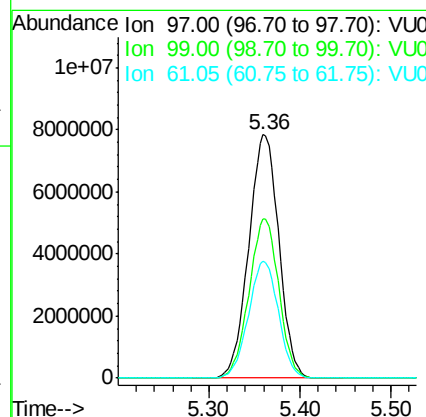
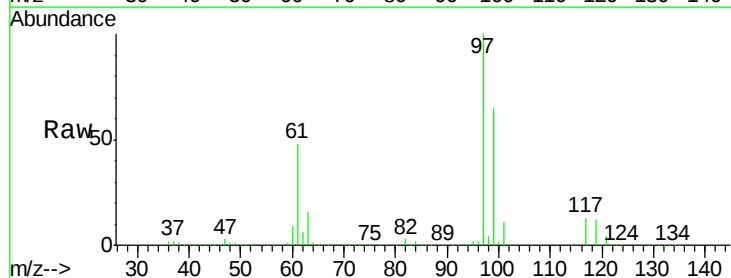
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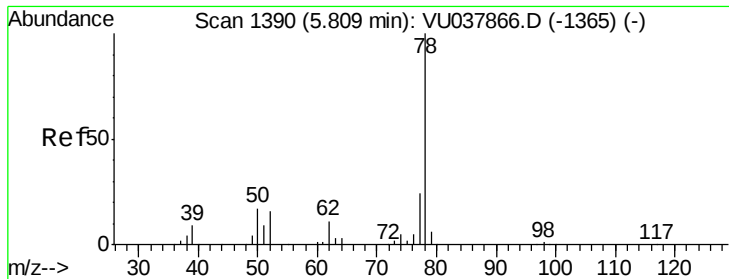
MMDadoda
 4/28/2020 12:02:16 PM



#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	Ratio	Lower	Upper
97	100		
99	64.8	50.7	76.1
61	47.7	38.9	58.3





#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

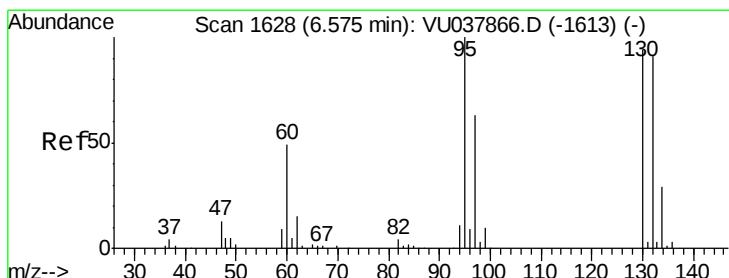
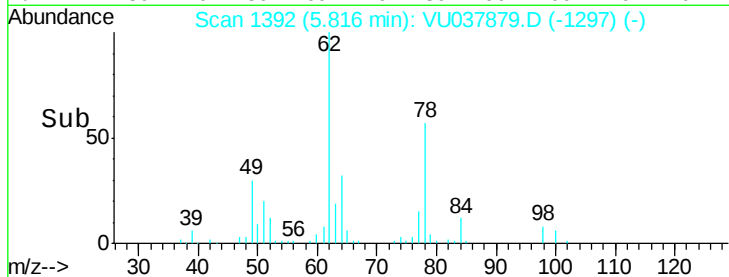
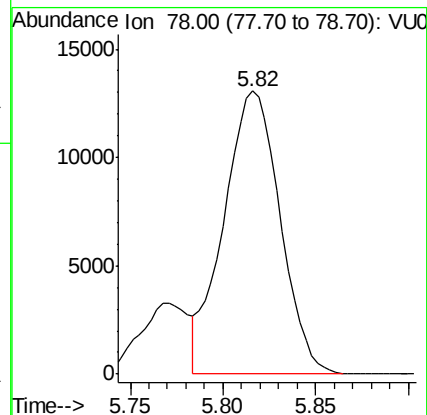
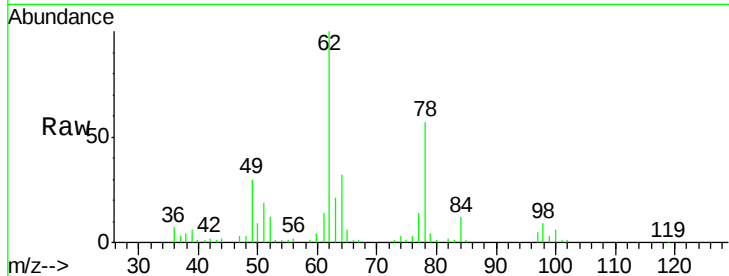
ClientSampleId :

C0D98

Tgt Ion: 78 Resp: 27594

Manual Integrations
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#34

Trichloroethene

Concen: 14149.099 ug/L m

RT: 6.57 min Scan# 1626

Delta R.T. -0.01 min

Lab File: VU037879.D

Acq: 24 Apr 2020 18:19

Tgt Ion: 95 Resp: 67164704

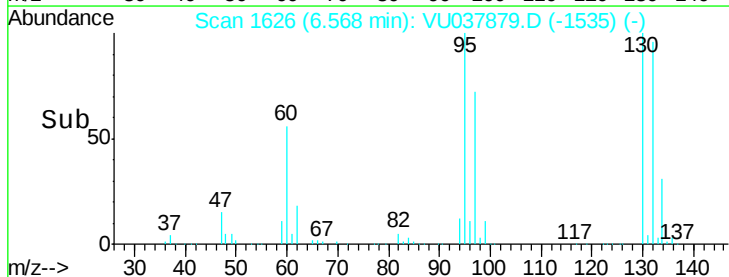
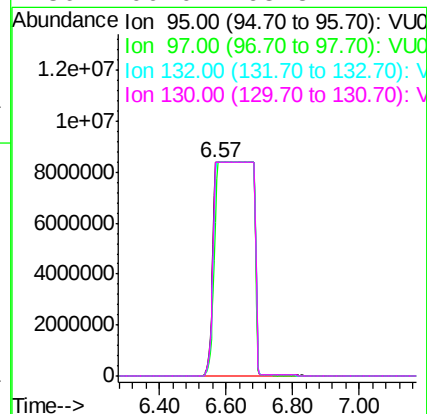
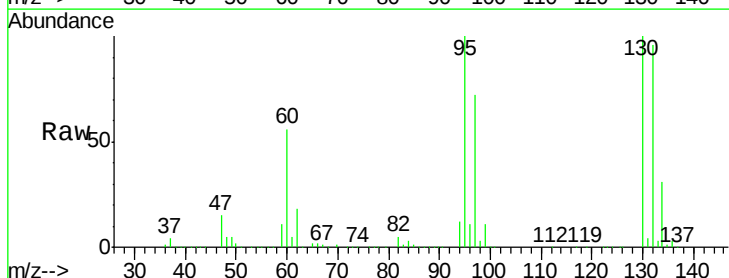
Ion Ratio Lower Upper

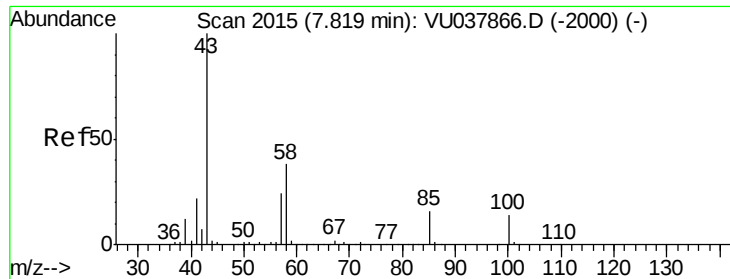
95 100

97 72.2 44.4 82.5

132 95.5 65.0 120.6

130 100.0 65.5 121.7





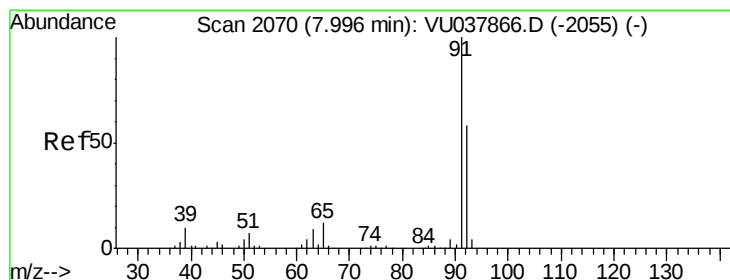
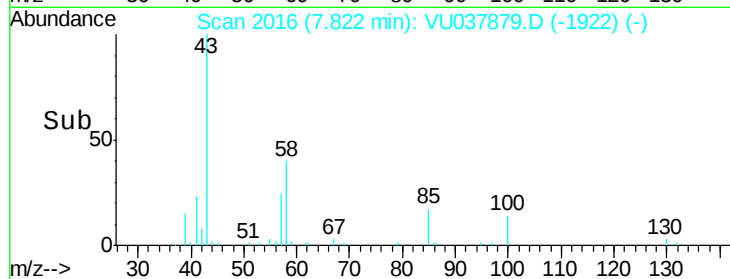
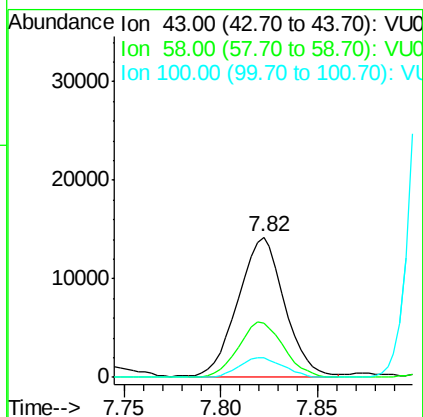
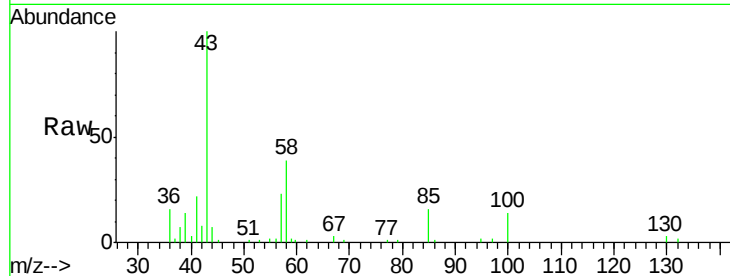
#40
4-Methyl-2-pentanone
Concen: 2.573 ug/L
RT: 7.82 min Scan# 2016
Delta R.T. 0.00 min
Lab File: VU037879.D
Acq: 24 Apr 2020 18:19

Instrument :
MSVOA_U
ClientSampled :
C0D98

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

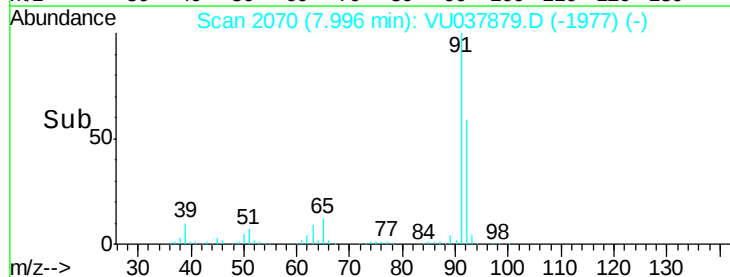
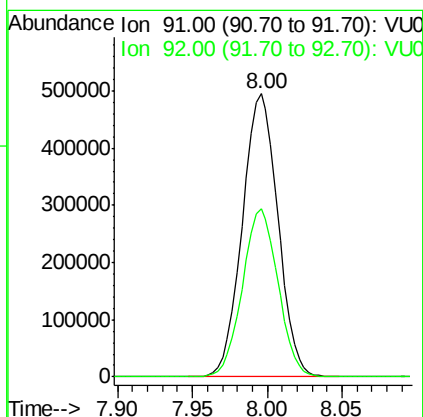
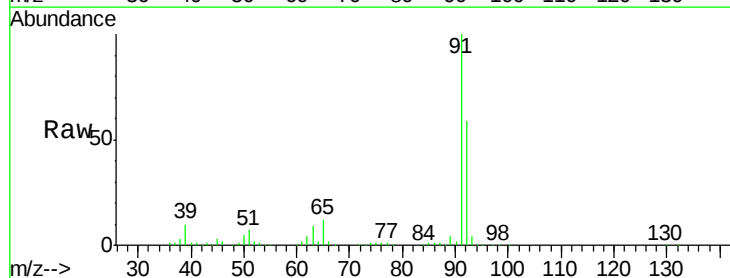
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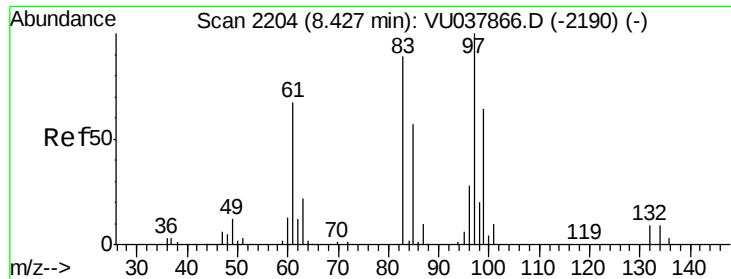
MMDadoda
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#42
Toluene
Concen: 40.429 ug/L
RT: 8.00 min Scan# 2070
Delta R.T. 0.00 min
Lab File: VU037879.D
Acq: 24 Apr 2020 18:19

Tgt Ion	Ratio	Lower	Upper
91	100		
92	59.4	41.2	76.6





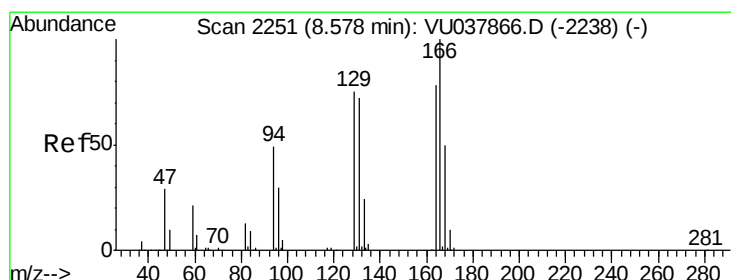
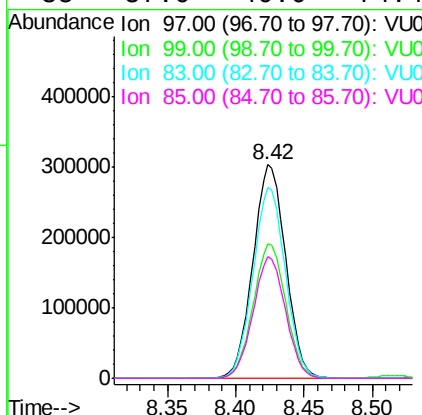
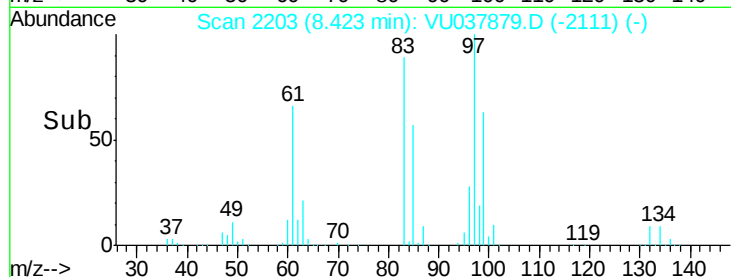
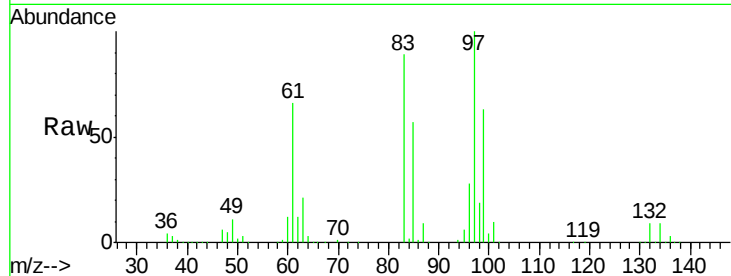
#45
1,1,2-Trichloroethane
Concen: 109.656 ug/L
RT: 8.42 min Scan# 2203
Delta R.T. -0.00 min
Lab File: VU037879.D
Acq: 24 Apr 2020 18:19

Instrument :
MSVOA_U
ClientSampleId :
C0D98

Tot Ion	Ion	Ratio	Resp	Lower	Upper
97	100		505616		
99	63.0	44.0	81.6		
83	89.2	62.6	116.2		
85	57.0	40.0	74.4		

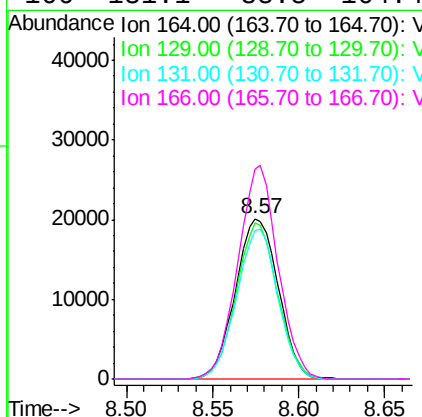
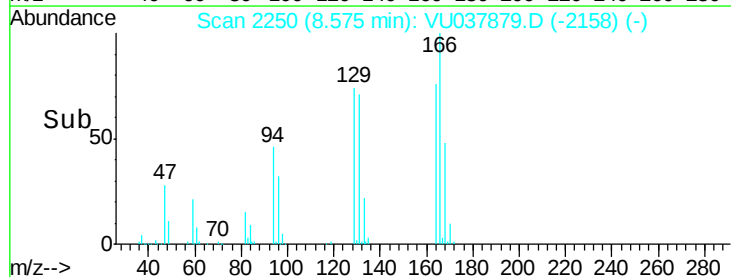
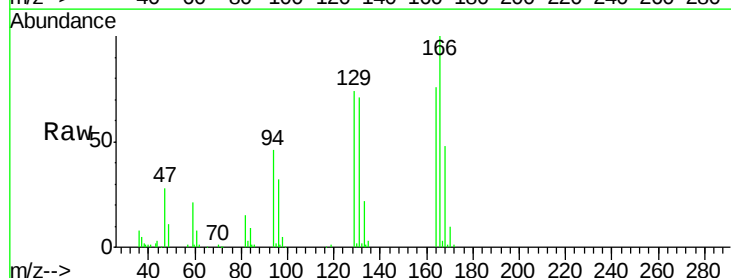
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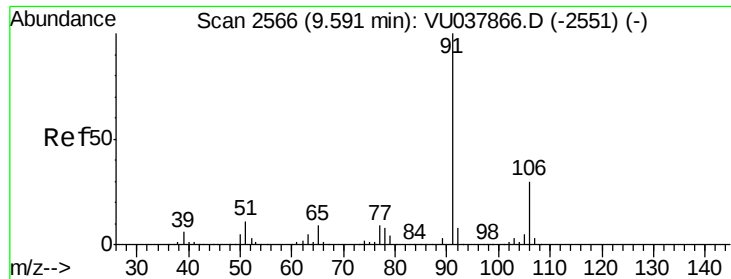
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#46
Tetrachloroethene
Concen: 10.032 ug/L
RT: 8.57 min Scan# 2250
Delta R.T. -0.00 min
Lab File: VU037879.D
Acq: 24 Apr 2020 18:19

Tgt Ion	Ion	Ratio	Resp	Lower	Upper
164	100		34806		
129	97.3	67.3	125.1		
131	92.7	64.8	120.4		
166	131.1	88.5	164.4		





#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

ClientSampleId :

C0D98

Tot Ion: 91 Resp: 1749413

Ion Ratio Lower Upper

91 100

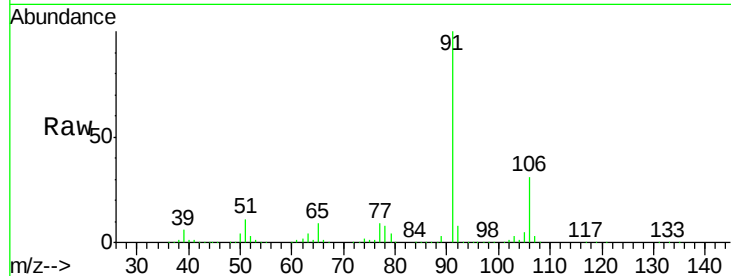
106 30.6 21.1 39.1

Manual Integrations

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Abundance Ion 91.00 (90.70 to 91.70): VU037866.D (-2551) (-)

Ion 106.00 (105.70 to 106.70): VU037866.D (-2551) (-)

1200000

1000000

800000

600000

400000

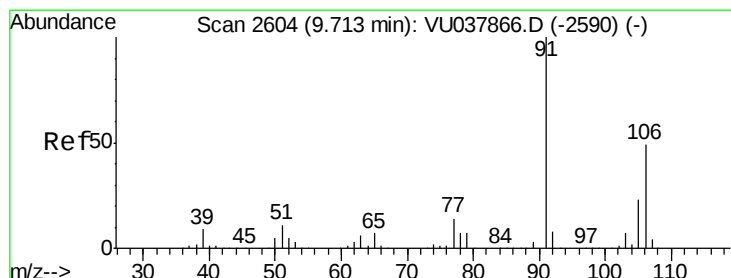
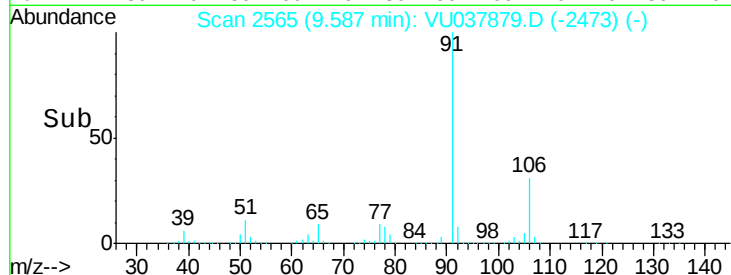
200000

0

9.59

9.50 9.55 9.60 9.65

Time-->



#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

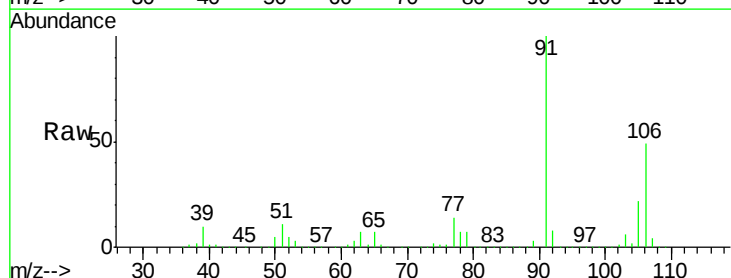
Acq: 24 Apr 2020 18:19

Tgt Ion:106 Resp: 1813481

Ion Ratio Lower Upper

106 100

91 205.3 142.8 265.2



Abundance Ion 106.00 (105.70 to 106.70): VU037866.D (-2590) (-)

Ion 91.00 (90.70 to 91.70): VU037866.D (-2590) (-)

2500000

2000000

1500000

1000000

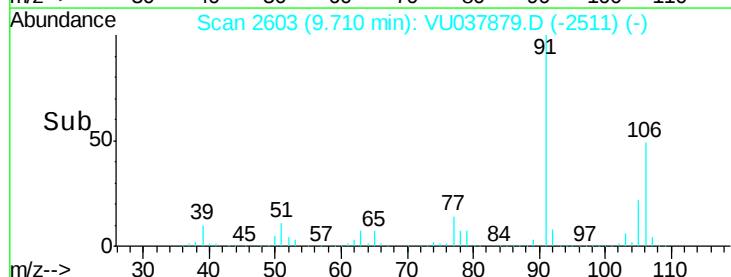
500000

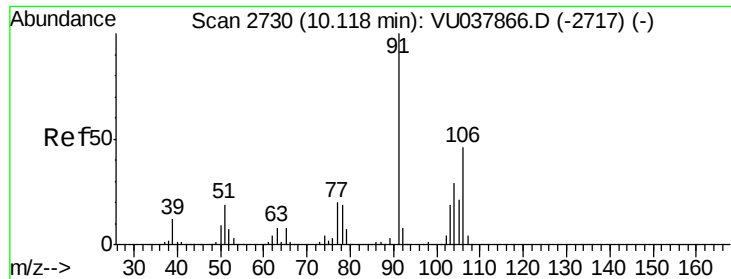
0

9.71

9.60 9.70 9.80

Time-->





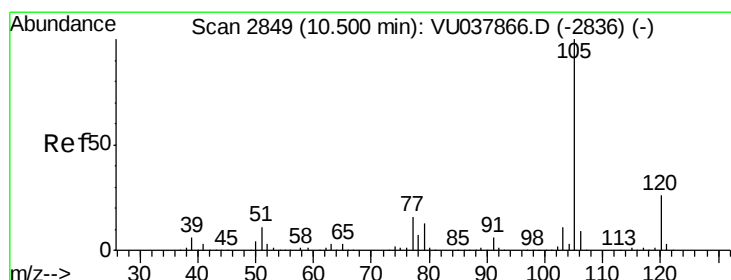
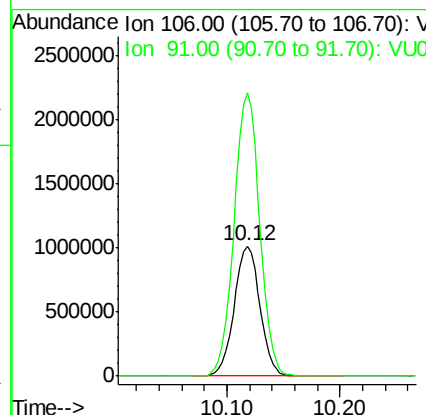
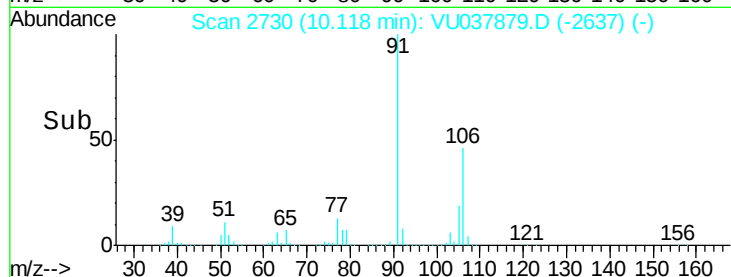
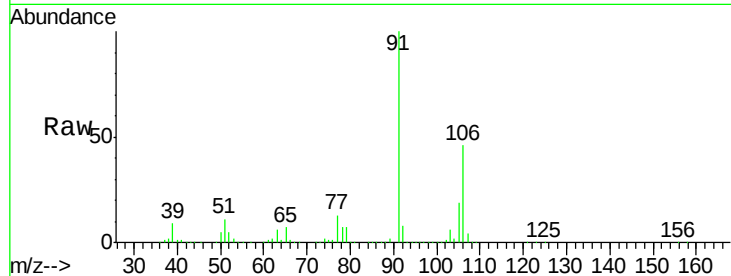
#54
o-xylene
Concen: 191.161 ug/L
RT: 10.12 min Scan# 2730
Delta R.T. 0.00 min
Lab File: VU037879.D
Acq: 24 Apr 2020 18:19

Instrument :
MSVOA_U
ClientSampled :
C0D98

Tot Ion:106 Resp: 1599401
Ion Ratio Lower Upper
106 100
91 217.2 150.6 279.6

Manual Integrations
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#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

Tgt Ion:105 Resp: 53268
Ion Ratio Lower Upper
105 100
120 26.3 20.6 31.0
77 16.6 13.0 19.4

