

Data Path : Z:\VOASRV\HPCHEM1\MSVOA U\DATA\VU091518\
 Data File : VU026736.D
 Acq On : 13 Sep 2018 19:26
 Operator : MD/SY
 Sample : J4893-06
 Misc : 5.0mL/MSVOA U/WATER
 ALS Vial : 11 Sample Multiplier: 1

Instrument :
 MSVOA_U
 ClientSampleId :
 C08L1

Manual Integrations
 APPROVED

MMDadoda
 9/19/2018 1:55:35 PM

Quant Time: Sep 14 05:14:41 2018
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_U\METHOD\SOMULM091018WMA.M
 Quant Title : VOC Analysis
 QLast Update : Fri Sep 14 01:21:50 2018
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Difluorobenzene	5.89	114	188176	50.00	ug/L	0.00
28) Chlorobenzene-d5	9.10	117	187923	50.00	ug/L	0.00
60) 1,4-Dichlorobenzene-d4	11.49	152	112546	50.00	ug/L	0.00

System Monitoring Compounds

4) Vinyl Chloride-d3	1.40	65	63563	45.33	ug/L	0.00
Spiked Amount	50.000	Range	60 - 135	Recovery	=	90.66%
7) Chloroethane-d5	1.68	69	50924	45.07	ug/L	0.00
Spiked Amount	50.000	Range	70 - 130	Recovery	=	90.14%
11) 1,1-Dichloroethene-d2	2.27	63	89408	35.63	ug/L	0.00
Spiked Amount	50.000	Range	60 - 125	Recovery	=	71.26%
21) 2-Butanone-d5	4.18	46	86997	99.69	ug/L	0.00
Spiked Amount	100.000	Range	40 - 130	Recovery	=	99.69%
24) Chloroform-d	4.65	84	99432	42.64	ug/L	0.00
Spiked Amount	50.000	Range	70 - 125	Recovery	=	85.28%
26) 1,2-Dichloroethane-d4	5.31	65	68491	44.88	ug/L	0.00
Spiked Amount	50.000	Range	70 - 125	Recovery	=	89.76%
32) Benzene-d6	5.34	84	211928	43.57	ug/L	0.00
Spiked Amount	50.000	Range	70 - 125	Recovery	=	87.14%
36) 1,2-Dichloropropane-d6	6.33	67	70789	43.37	ug/L	0.00
Spiked Amount	50.000	Range	70 - 120	Recovery	=	86.74%
41) Toluene-d8	7.57	98	196017	42.95	ug/L	0.00
Spiked Amount	50.000	Range	80 - 120	Recovery	=	85.90%
43) trans-1,3-Dichloropropene-	7.85	79	32253	42.50	ug/L	0.00
Spiked Amount	50.000	Range	60 - 125	Recovery	=	85.00%
47) 2-Hexanone-d5	8.31	63	62967	94.56	ug/L	0.00
Spiked Amount	100.000	Range	45 - 130	Recovery	=	94.56%
57) 1,1,2,2-Tetrachloroethane-	10.43	84	95515	42.74	ug/L	0.00
Spiked Amount	50.000	Range	65 - 120	Recovery	=	85.48%
64) 1,2-Dichlorobenzene-d4	11.88	152	110196	49.12	ug/L	0.02
Spiked Amount	50.000	Range	80 - 120	Recovery	=	98.24%

Target Compounds

					Ovalue
13) Acetone	2.32	43	2762	2.779 ug/L	93
29) Cyclohexane	5.00	56	4065	1.975 ug/L	92
31) Carbon tetrachloride	5.14	117	2994	1.664 ug/L	97
33) Benzene	5.39	78	94386	17.935 ug/L	100
35) Methylcyclohexane	6.42	83	14249	6.806 ug/L #	80
42) Toluene	7.64	91	1966	0.360 ug/L	100
46) Tetrachloroethene	8.23	164	1435	1.305 ug/L	90
51) Chlorobenzene	9.13	112	15452267m	4314.573 ug/L	
62) 1,3-Dichlorobenzene	11.42	146	1731950	535.946 ug/L	98
63) 1,4-Dichlorobenzene	11.52	146	12638308	3691.752 ug/L	97
65) 1,2-Dichlorobenzene	11.89	146	22896747m	6704.047 ug/L	
68) 1,2,4-trichlorobenzene	13.52	180	13754508	6173.611 ug/L	99
70) 1,2,3-Trichlorobenzene	13.99	180	1663066	689.111 ug/L	99

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

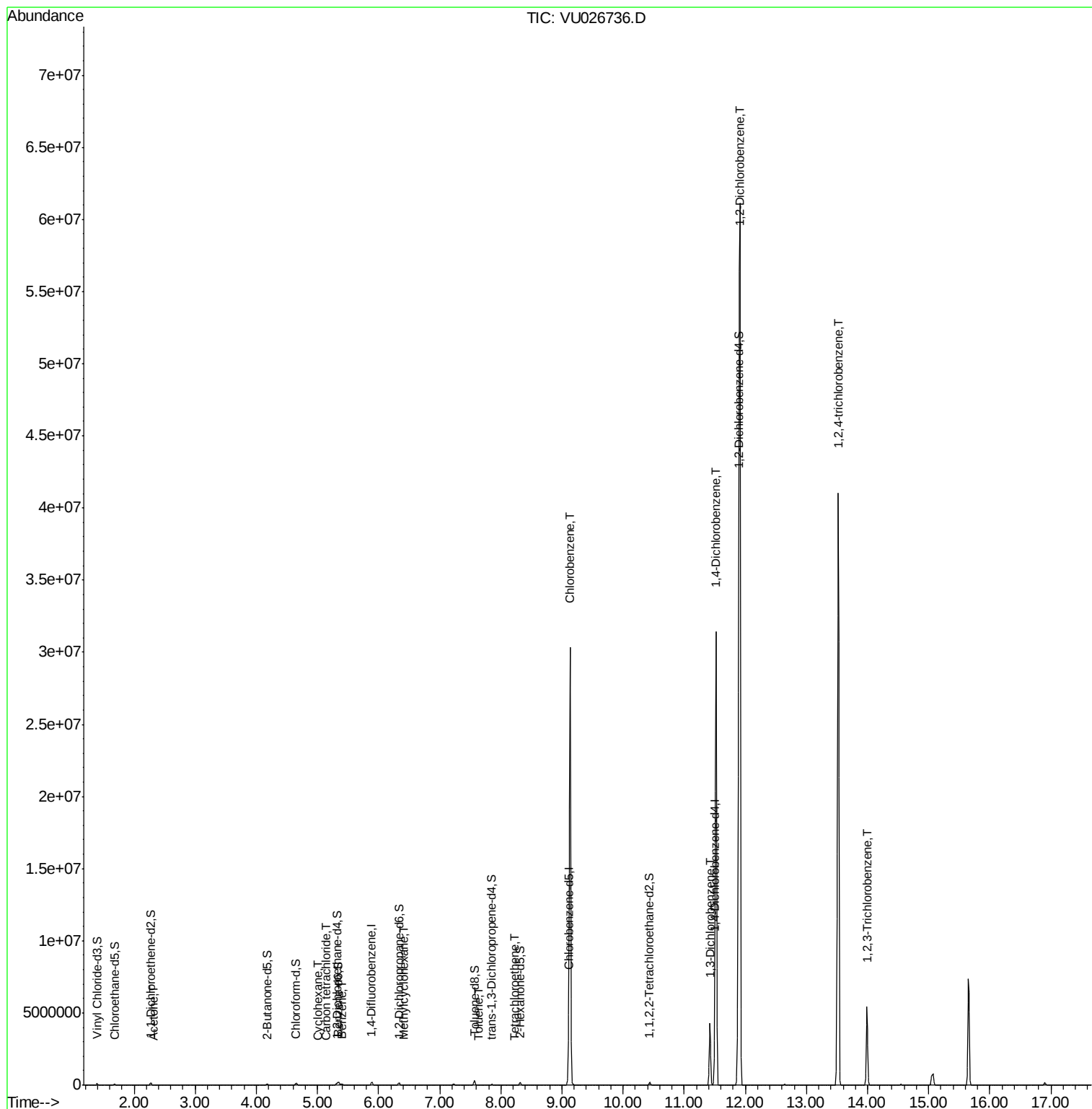
Data Path : Z:\V0ASRV\HPCHEM1\MSVOA U\DATA\VU091518\
Data File : VU026736.D
Acq On : 13 Sep 2018 19:26
Operator : MD/SY
Sample : J4893-06
Misc : 5.0mL/MSVOA U/WATER
ALS Vial : 11 Sample Multiplier: 1

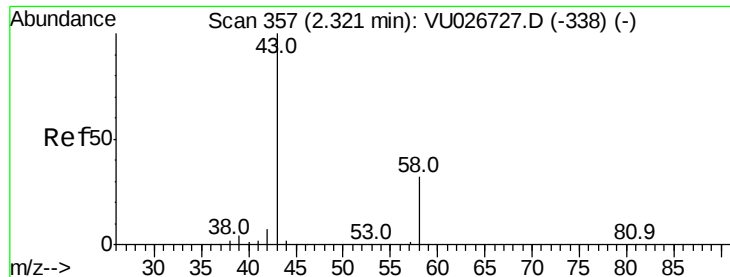
Instrument :
MSVOA_U
ClientSampleId :
C08L1

Manual Integrations
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Quant Time: Sep 14 05:14:41 2018
Quant Method : Z:\V0ASRV\HPCHEM1\MSVOA_U\METHOD\SOMULM091018WMA.M
Quant Title : VOC Analysis
QLast Update : Fri Sep 14 01:21:50 2018
Response via : Initial Calibration





#13

Acetone

Concen: 2.779 ug/L

RT: 2.32 min Scan# 358

Delta R.T. 0.00 min

Lab File: VU026736.D

Acq: 13 Sep 2018 19:26

Instrument :

MSVOA_U

ClientSampleId :

C08L1

Tot Ion: 43 Resp: 2762

Ion Ratio Lower Upper

43 100

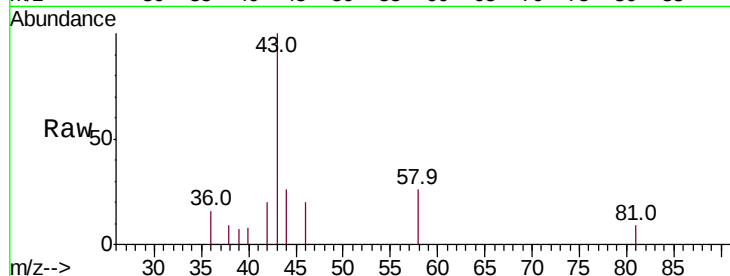
58 27.4 0.0 62.8

Manual Integrations

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Abundance Ion 43.00 (42.70 to 43.70): VU0

Ion 58.00 (57.70 to 58.70): VU0

2000

1500

1000

500

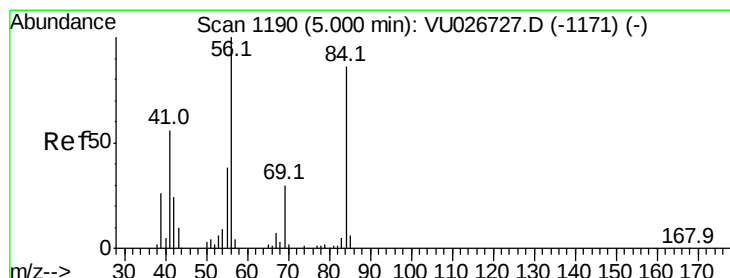
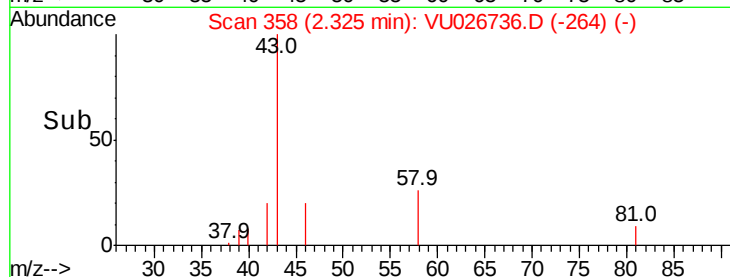
0

2.30

2.32

2.35

Time-->



#29

Cyclohexane

Concen: 1.975 ug/L

RT: 5.00 min Scan# 1190

Delta R.T. -0.00 min

Lab File: VU026736.D

Acq: 13 Sep 2018 19:26

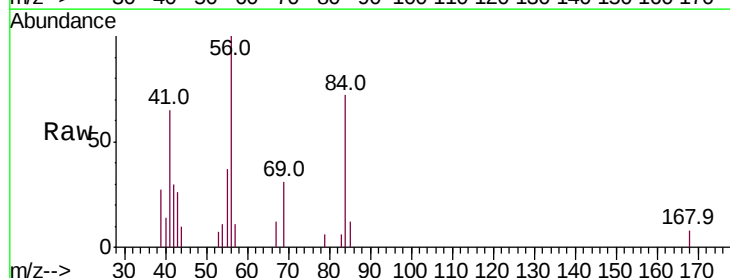
Tgt Ion: 56 Resp: 4065

Ion Ratio Lower Upper

56 100

69 23.9 23.0 34.6

84 76.1 66.5 99.7



Abundance Ion 56.00 (55.70 to 56.70): VU0

Ion 69.00 (68.70 to 69.70): VU0

Ion 84.00 (83.70 to 84.70): VU0

2000

1500

1000

500

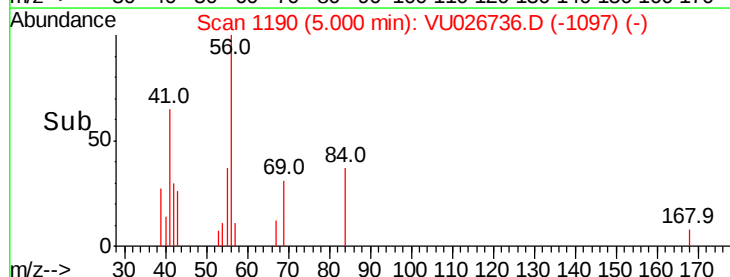
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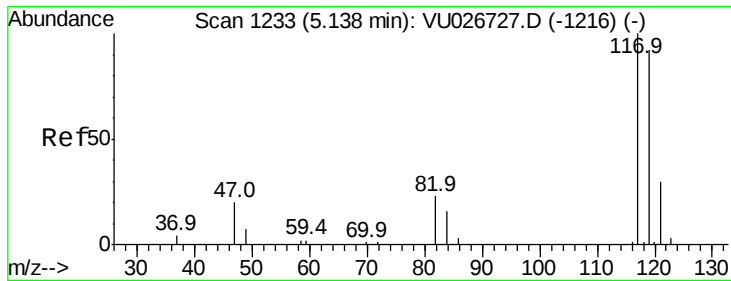
4.95

5.00

5.05

Time-->





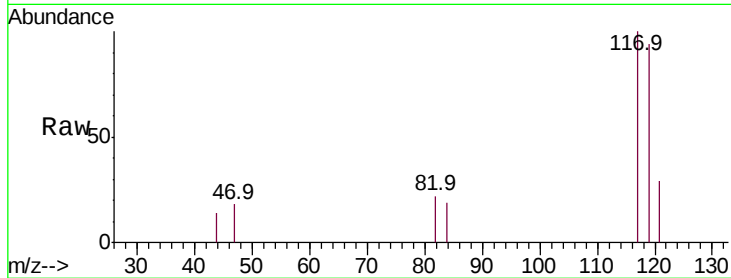
#31
Carbon tetrachloride
Concen: 1.664 ug/L
RT: 5.14 min Scan# 1233
Delta R.T. -0.00 min
Lab File: VU026736.D
Acq: 13 Sep 2018 19:26

Instrument :
MSVOA_U
ClientSampleId :
C08L1

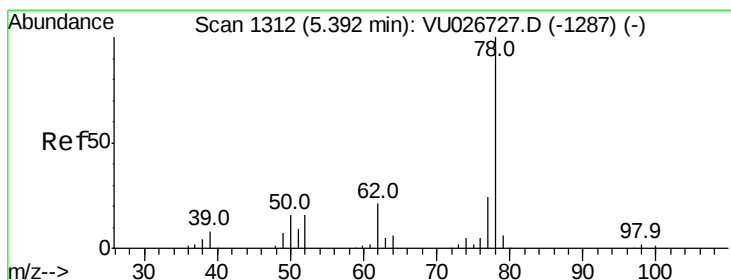
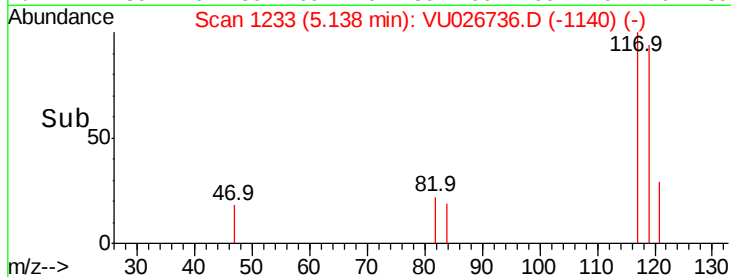
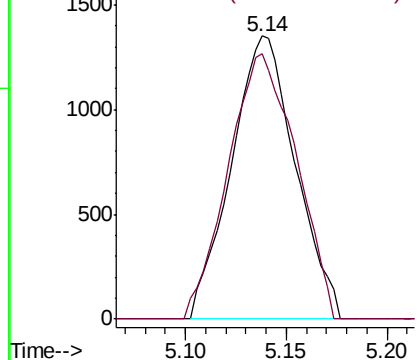
Tot Ion:117 Resp: 2994
Ion Ratio Lower Upper
117 100
119 99.6 77.6 116.4

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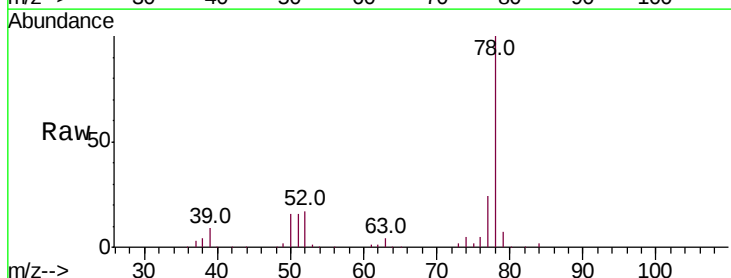


Abundance Ion 117.00 (116.70 to 117.70): V
Ion 119.00 (118.70 to 119.70): V

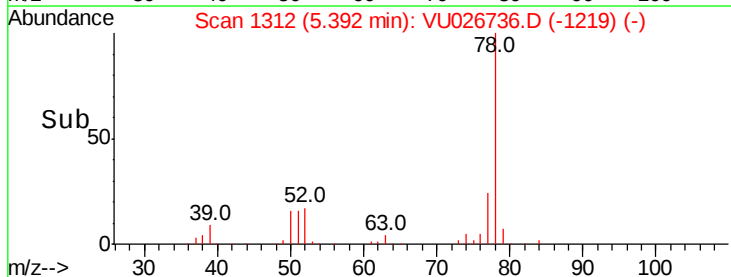
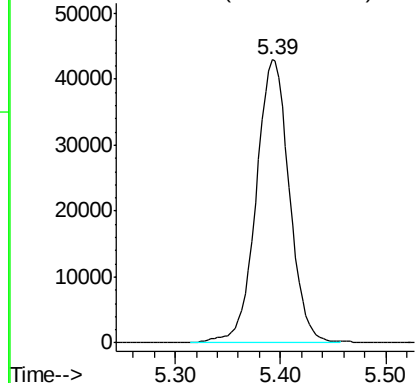


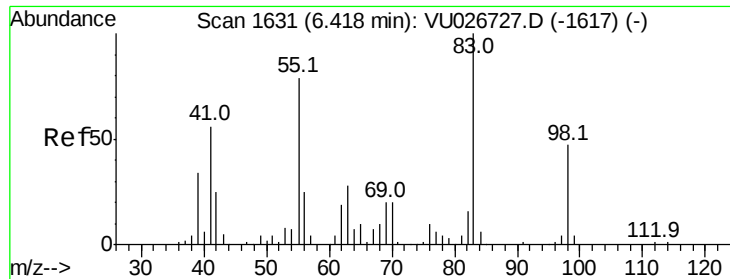
#33
Benzene
Concen: 17.935 ug/L
RT: 5.39 min Scan# 1312
Delta R.T. -0.00 min
Lab File: VU026736.D
Acq: 13 Sep 2018 19:26

Tgt Ion: 78 Resp: 94386



Abundance Ion 78.00 (77.70 to 78.70): VU0





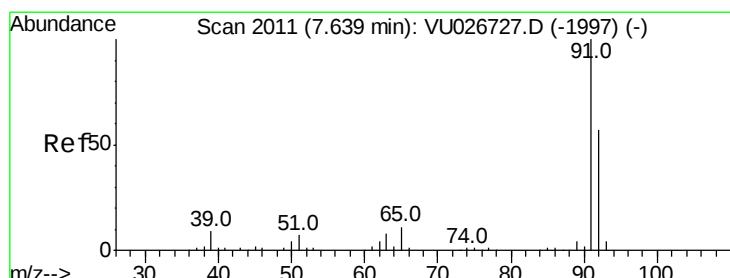
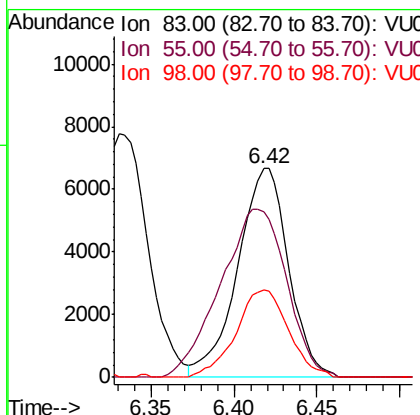
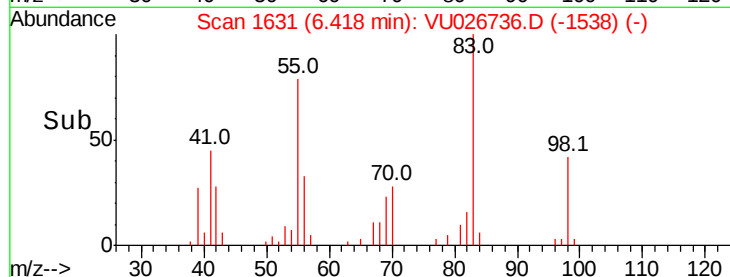
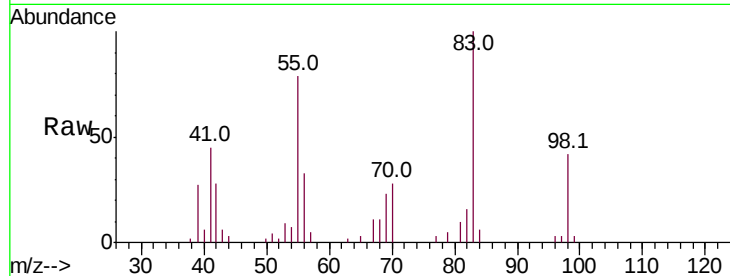
#35
Methvlcvclohexane
Concen: 6.806 ug/L
RT: 6.42 min Scan# 1631
Delta R.T. -0.00 min
Lab File: VU026736.D
Acq: 13 Sep 2018 19:26

Instrument :
MSVOA_U
ClientSampled :
C08L1

Tot Ion	Ratio	Lower	Upper
83	100		
55	104.7	62.9	94.3#
98	43.3	37.0	55.4

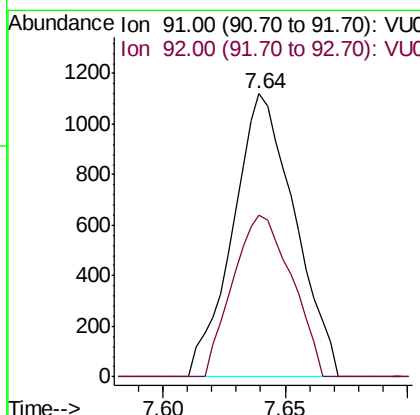
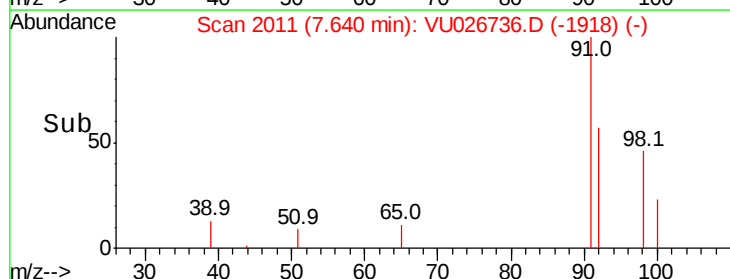
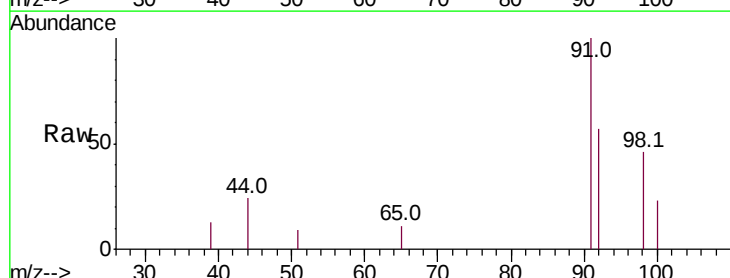
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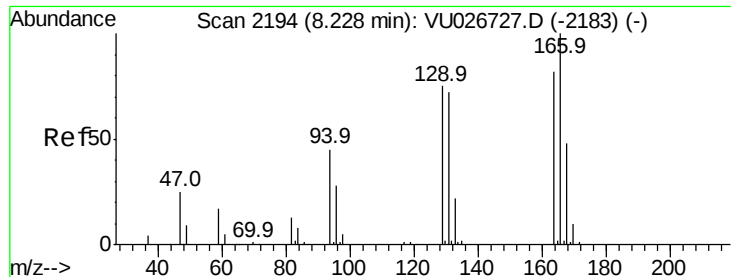
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#42
Toluene
Concen: 0.360 ug/L
RT: 7.64 min Scan# 2011
Delta R.T. -0.00 min
Lab File: VU026736.D
Acq: 13 Sep 2018 19:26

Tgt Ion	Ratio	Lower	Upper
91	100		
92	57.3	40.3	74.9





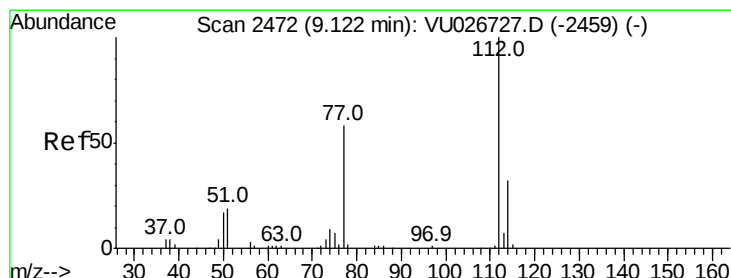
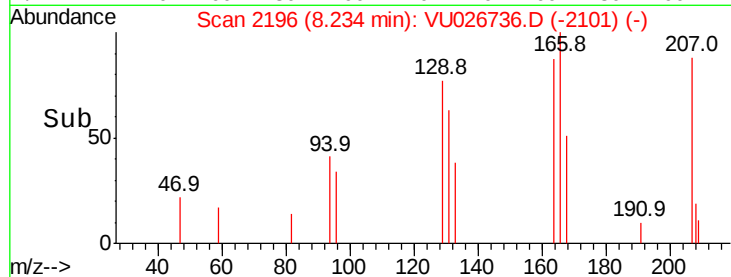
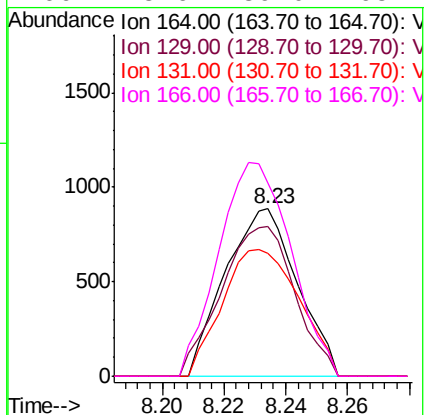
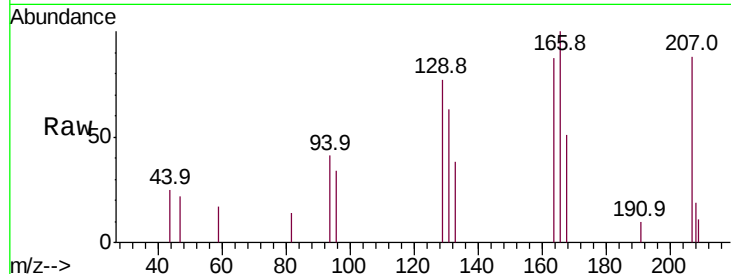
#46
Tetrachloroethene
Concen: 1.305 ug/L
RT: 8.23 min Scan# 2196
Delta R.T. 0.01 min
Lab File: VU026736.D
Acq: 13 Sep 2018 19:26

Instrument :
MSVOA_U
ClientSampleId :
C08L1

Tot Ion	Ratio	Lower	Upper
164	100		
129	89.2	65.0	120.8
131	73.1	62.5	116.1
166	115.6	89.0	165.2

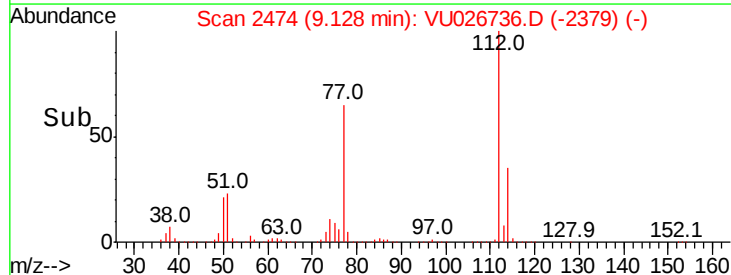
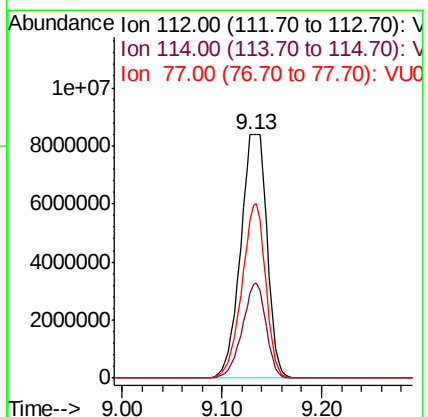
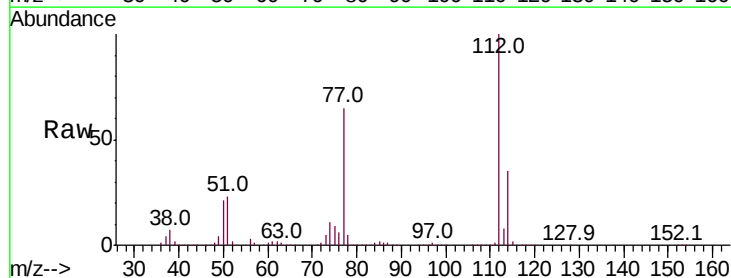
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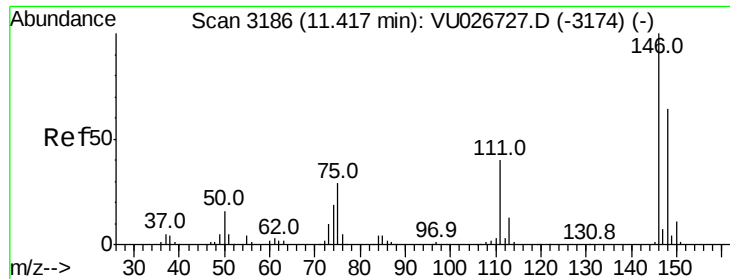
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#51
Chlorobenzene
Concen: 4314.573 ug/L m
RT: 9.13 min Scan# 2474
Delta R.T. 0.01 min
Lab File: VU026736.D
Acq: 13 Sep 2018 19:26

Tgt Ion	Ratio	Lower	Upper
112	100		
114	34.7	22.9	42.5
77	64.9	47.2	70.8





#62

1,3-Dichlorobenzene

Concen: 535.946 ug/L

RT: 11.42 min Scan# 3187

Delta R.T. 0.00 min

Lab File: VU026736.D

Acq: 13 Sep 2018 19:26

Instrument :

MSVOA_U

ClientSampled :

C08L1

Tot Ion:146 Resp: 1731950

Ion Ratio Lower Upper

146 100

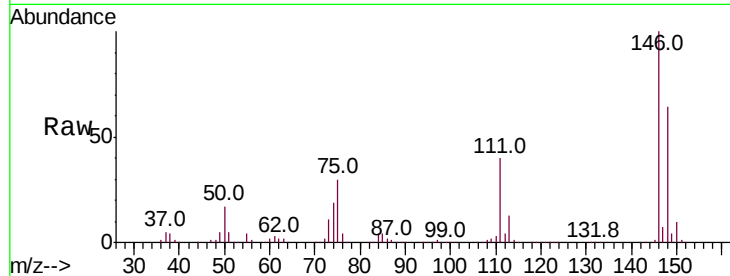
111 39.6 26.7 49.5

148 64.0 44.2 82.2

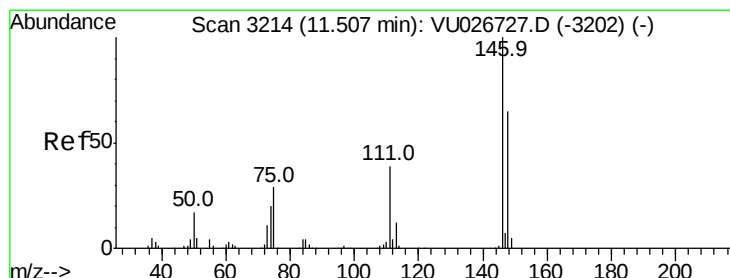
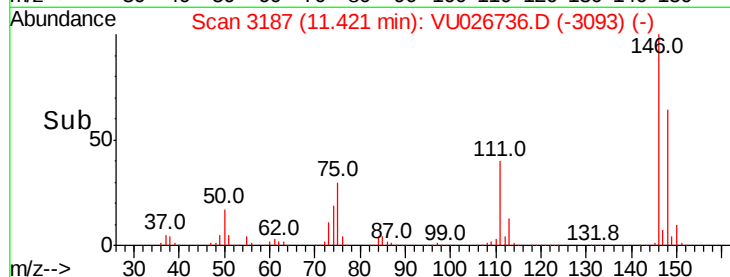
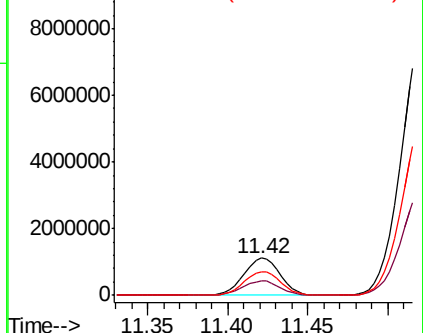
Manual Integrations
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Abundance Ion 146.00 (145.70 to 146.70): V
1e+07 Ion 111.00 (110.70 to 111.70): V
Ion 148.00 (147.70 to 148.70): V



#63

1,4-Dichlorobenzene

Concen: 3691.752 ug/L

RT: 11.52 min Scan# 3218

Delta R.T. 0.01 min

Lab File: VU026736.D

Acq: 13 Sep 2018 19:26

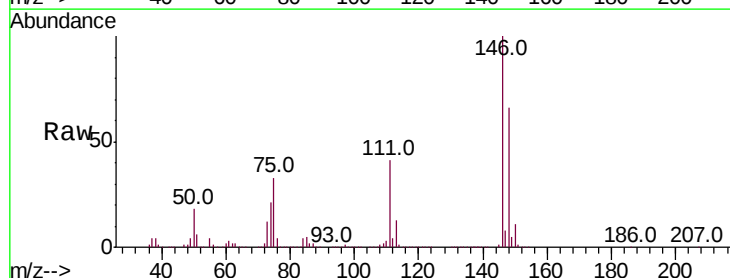
Tgt Ion:146 Resp:12638308

Ion Ratio Lower Upper

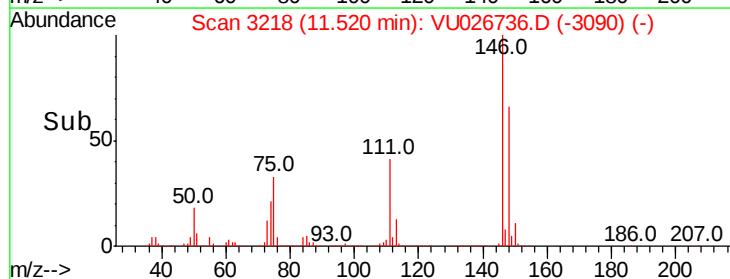
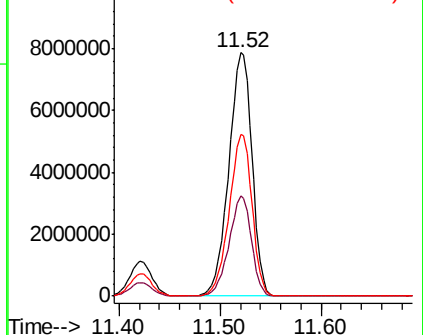
146 100

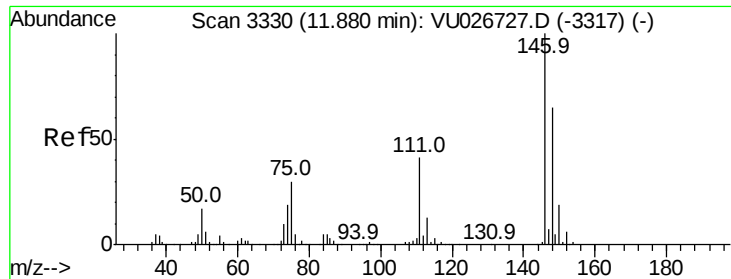
111 40.9 26.5 49.3

148 66.3 45.2 84.0



Abundance Ion 146.00 (145.70 to 146.70): V
1e+07 Ion 111.00 (110.70 to 111.70): V
Ion 148.00 (147.70 to 148.70): V





#65

1,2-Dichlorobenzene

Concen: 6704.047 ug/L m

RT: 11.89 min Scan# 3334

Delta R.T. 0.01 min

Lab File: VU026736.D

Acq: 13 Sep 2018 19:26

Instrument :

MSVOA_U

ClientSampled :

C08L1

Tot Ion:146 Resp:22896747

Ion Ratio Lower Upper

146 100

111 52.3 32.8 49.2#

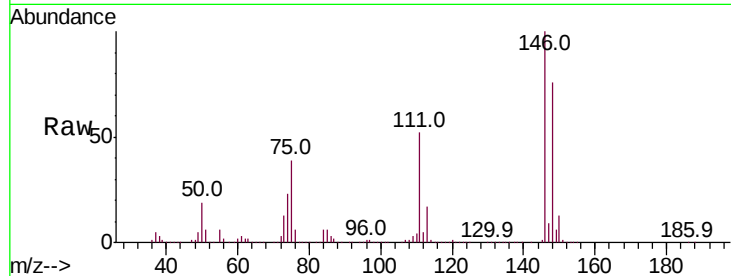
148 76.2 52.2 78.4

Manual Integrations

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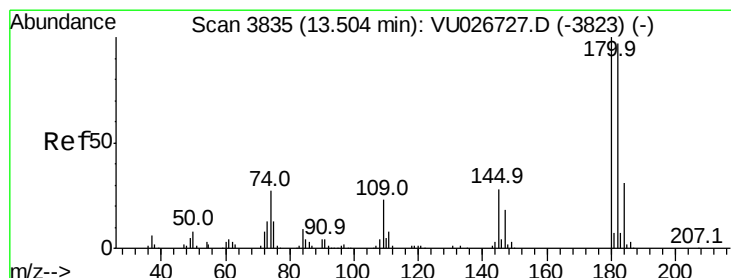
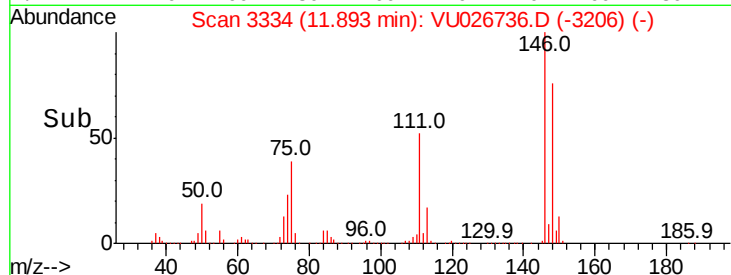
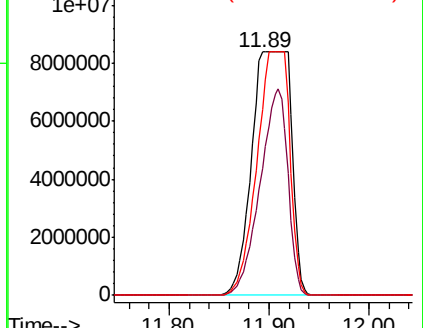
9/19/2018 1:55:35 PM



Abundance Ion 146.00 (145.70 to 146.70): V

Ion 111.00 (110.70 to 111.70): V

Ion 148.00 (147.70 to 148.70): V



#68

1,2,4-trichlorobenzene

Concen: 6173.611 ug/L

RT: 13.52 min Scan# 3841

Delta R.T. 0.02 min

Lab File: VU026736.D

Acq: 13 Sep 2018 19:26

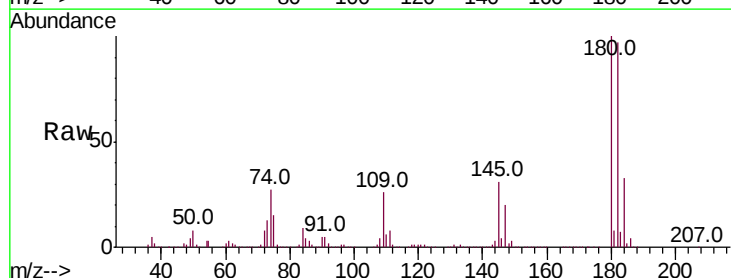
Tgt Ion:180 Resp:13754508

Ion Ratio Lower Upper

180 100

182 95.9 76.0 114.0

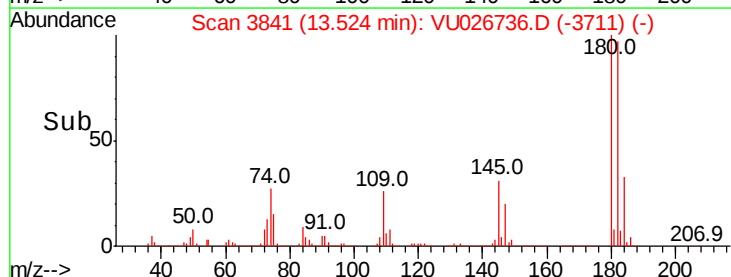
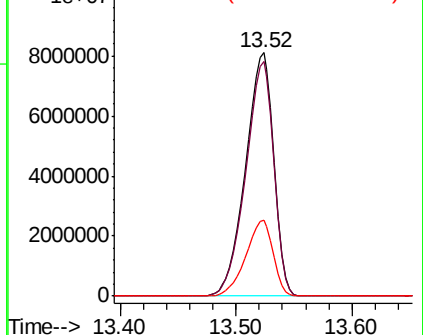
145 30.2 23.4 35.0

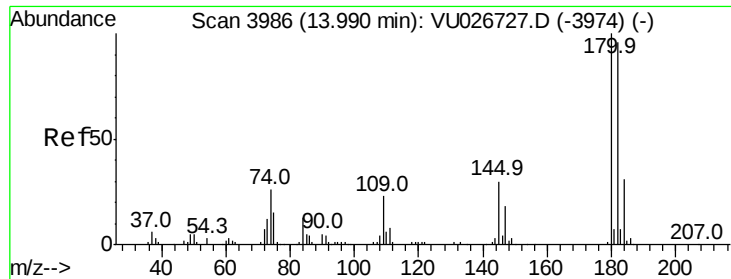


Abundance Ion 180.00 (179.70 to 180.70): V

Ion 182.00 (181.70 to 182.70): V

Ion 145.00 (144.70 to 145.70): V





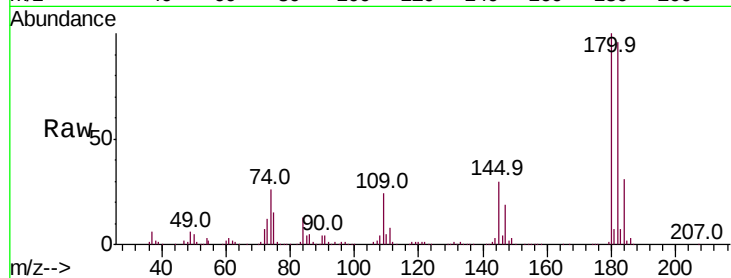
#70
 1,2,3-Trichlorobenzene
 Concen: 689.111 ug/L
 RT: 13.99 min Scan# 3986
 Delta R.T. 0.00 min
 Lab File: VU026736.D
 Acq: 13 Sep 2018 19:26

Instrument :
 MSVOA_U
 ClientSampleId :
 C08L1

Tot Ion	Ratio	Lower	Upper
180	100		
182	96.1	76.7	115.1
145	30.0	23.0	34.6

Manual Integrations
 APPROVED

MMDadoda
 9/19/2018 1:55:35 PM



Abundance

Ion 180.00 (179.70 to 180.70): V

Ion 182.00 (181.70 to 182.70): V

Ion 145.00 (144.70 to 145.70): V

