

Data Path : Z:\VOASRV\HPCHEM1\MSVOA U\DATA\VU032419\
 Data File : VU030377.D
 Acq On : 24 Mar 2019 17:48
 Operator : JC/SP
 Sample : K2016-11
 Misc : 5.0mL/MSVOA U/WATER
 ALS Vial : 21 Sample Multiplier: 1

Instrument :
 MSVOA_U
 ClientSampleId :
 C0988

Manual Integrations
 APPROVED

MMDadoda
 3/25/2019 12:36:13 PM

Quant Time: Mar 25 13:43:39 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_U\METHOD\SOMULM032319WMA.M
 Quant Title : VOC Analysis
 QLast Update : Mon Mar 25 03:20:51 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Difluorobenzene	5.88	114	433332	50.00	ug/L	0.00
28) Chlorobenzene-d5	9.15	117	477234	50.00	ug/L	0.07
60) 1,4-Dichlorobenzene-d4	11.52	152	289769m	50.00	ug/L	0.04

System Monitoring Compounds

4) Vinyl Chloride-d3	1.40	65	131076	37.59	ug/L	0.00
Spiked Amount	50.000	Range	60 - 135	Recovery	=	75.18%
7) Chloroethane-d5	1.68	69	108824	39.37	ug/L	0.00
Spiked Amount	50.000	Range	70 - 130	Recovery	=	78.74%
11) 1,1-Dichloroethene-d2	2.27	63	195609m	29.57	ug/L	0.00
Spiked Amount	50.000	Range	60 - 125	Recovery	=	59.14%#
21) 2-Butanone-d5	4.17	46	292808	89.32	ug/L	0.00
Spiked Amount	100.000	Range	40 - 130	Recovery	=	89.32%
24) Chloroform-d	4.65	84	358464	59.66	ug/L	0.00
Spiked Amount	50.000	Range	70 - 125	Recovery	=	119.32%
26) 1,2-Dichloroethane-d4	5.31	65	179227	45.58	ug/L	0.00
Spiked Amount	50.000	Range	70 - 125	Recovery	=	91.16%
32) Benzene-d6	5.35	84	555389	40.58	ug/L	0.00
Spiked Amount	50.000	Range	70 - 125	Recovery	=	81.16%
36) 1,2-Dichloropropane-d6	6.33	67	196720	42.01	ug/L	0.00
Spiked Amount	50.000	Range	70 - 120	Recovery	=	84.02%
41) Toluene-d8	7.56	98	504633	41.06	ug/L	0.00
Spiked Amount	50.000	Range	80 - 120	Recovery	=	82.12%
43) trans-1,3-Dichloropropene-	7.85	79	82717	37.57	ug/L	0.00
Spiked Amount	50.000	Range	60 - 125	Recovery	=	75.14%
47) 2-Hexanone-d5	8.32	63	205858	81.13	ug/L	0.00
Spiked Amount	100.000	Range	45 - 130	Recovery	=	81.13%
57) 1,1,2,2-Tetrachloroethane-	10.43	84	285170	42.56	ug/L	0.00
Spiked Amount	50.000	Range	65 - 120	Recovery	=	85.12%
64) 1,2-Dichlorobenzene-d4	11.92	152	282855	48.72	ug/L	0.06
Spiked Amount	50.000	Range	80 - 120	Recovery	=	97.44%

Target Compounds

					Ovalue
13) Acetone	2.32	43	143647	43.328	ug/L 100
16) Methylene chloride	2.70	84	5990	1.639	ug/L 86
25) Chloroform	4.67	83	2406025	379.210	ug/L 100
29) Cyclohexane	4.99	56	67731	9.378	ug/L 99
31) Carbon tetrachloride	5.13	117	738163	149.034	ug/L 98
33) Benzene	5.37	78	44991033m	2769.440	ug/L
34) Trichloroethene	6.19	95	9181	2.299	ug/L 96
35) Methylcyclohexane	6.41	83	22513	3.426	ug/L # 75
38) Bromodichloromethane	6.76	83	25020	4.567	ug/L 99
42) Toluene	7.64	91	56426	3.347	ug/L 100
46) Tetrachloroethene	8.23	164	7454	2.672	ug/L 91
49) Dibromochloromethane	8.48	129	6925	1.711	ug/L 99
51) Chlorobenzene	9.11	112	66337859m	6492.078	ug/L
62) 1,3-Dichlorobenzene	11.43	146	19342842	2041.196	ug/L 96
63) 1,4-Dichlorobenzene	11.51	146	42401799m	4346.437	ug/L
65) 1,2-Dichlorobenzene	11.88	146	46885689m	4893.117	ug/L
67) 1,3,5-Trichlorobenzene	12.89	180	19095	2.692	ug/L 99

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Quant Title : VOC Analysis
QLast Update : Mon Mar 25 03:20:51 2019
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
68) 1,2,4-trichlorobenzene	13.51	180	22741721m	3689.489	ug/L	
70) 1,2,3-Trichlorobenzene	13.99	180	8672317	1332.395	ug/L	99

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

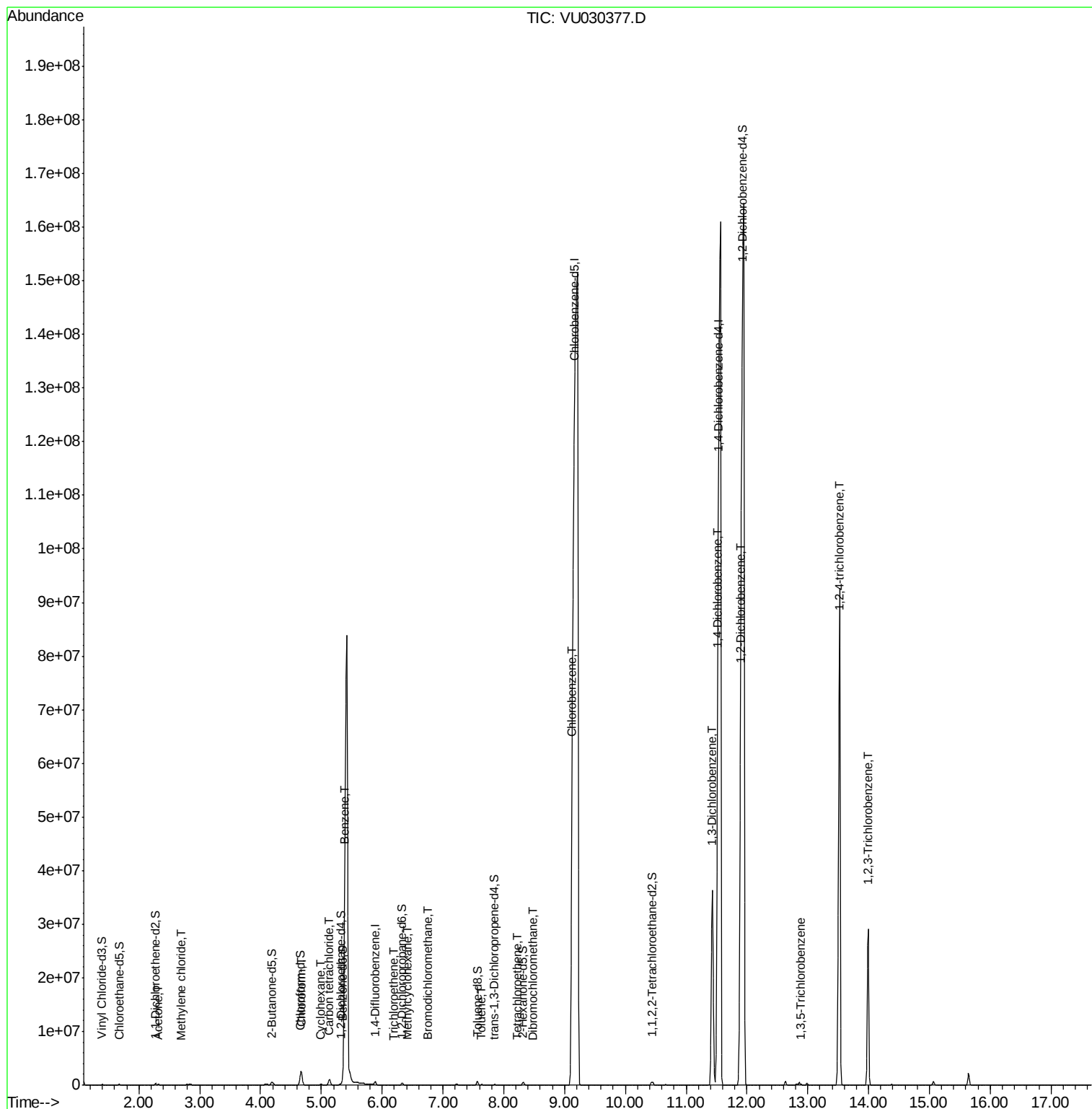
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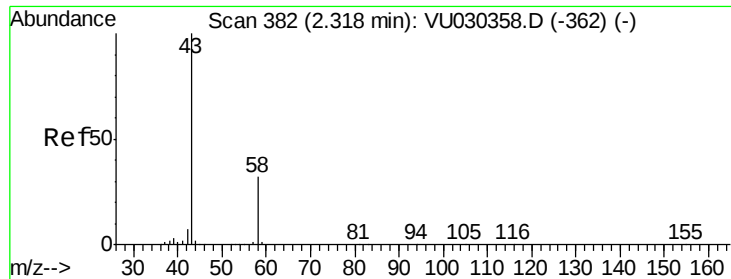
Instrument :
MSVOA_U
ClientSampleId :
C0988

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Quant Time: Mar 25 13:43:39 2019
Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_U\METHOD\SOMULM032319WMA.M
Quant Title : VOC Analysis
QLast Update : Mon Mar 25 03:20:51 2019
Response via : Initial Calibration





#13

Acetone

Concen: 43.328 ug/L

RT: 2.32 min Scan# 383

Delta R.T. 0.00 min

Lab File: VU030377.D

Acq: 24 Mar 2019 17:48

Instrument :

MSVOA_U

ClientSampled :

C0988

Tot Ion: 43 Resp: 143647

Ion Ratio Lower Upper

43 100

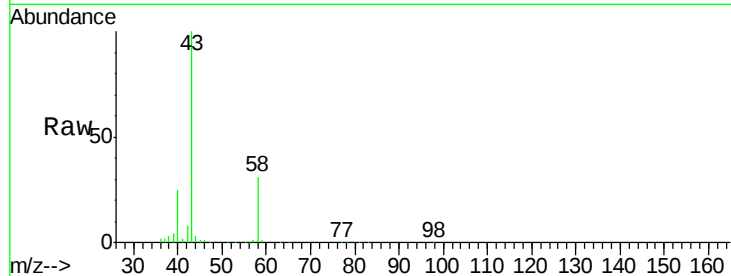
58 31.4 0.0 62.8

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

2.32

80000

60000

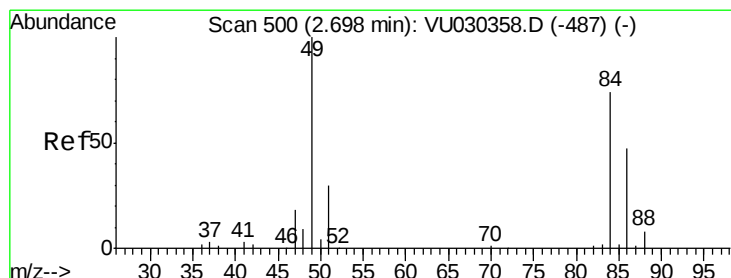
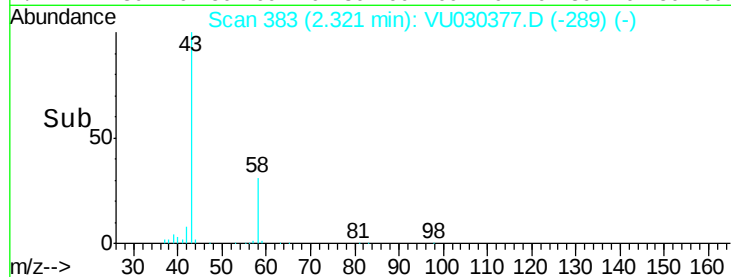
40000

20000

0

Time-->

2.25 2.30 2.35 2.40



#16

Methylene chloride

Concen: 1.639 ug/L

RT: 2.70 min Scan# 501

Delta R.T. 0.00 min

Lab File: VU030377.D

Acq: 24 Mar 2019 17:48

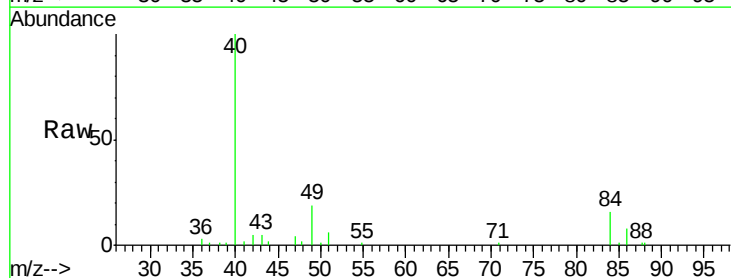
Tgt Ion: 84 Resp: 5990

Ion Ratio Lower Upper

84 100

86 50.8 44.3 82.3

49 120.8 94.9 176.3



Abundance Ion 84.00 (83.70 to 84.70): VU0

Ion 86.00 (85.70 to 86.70): VU0

Ion 49.00 (48.70 to 49.70): VU0

5000

4000

3000

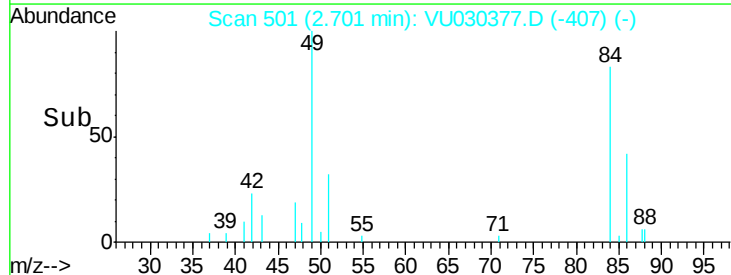
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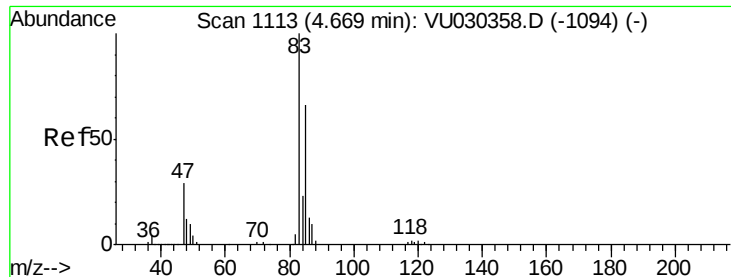
1000

0

Time-->

2.65 2.70 2.75





#25

Chloroform

Concen: 379.210 ug/L

RT: 4.67 min Scan# 1113

Delta R.T. 0.00 min

Lab File: VU030377.D

Acq: 24 Mar 2019 17:48

Instrument :

MSVOA_U

ClientSampleId :

C0988

Tot Ion: 83 Resp: 2406025

Ion Ratio Lower Upper

83 100

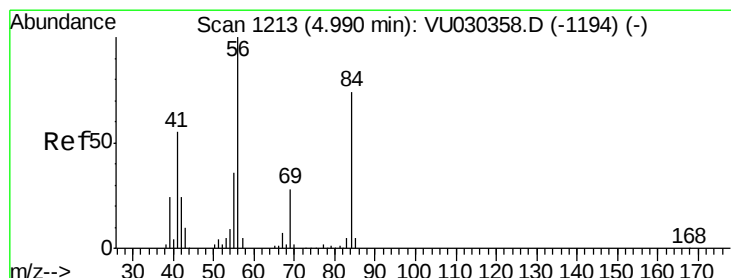
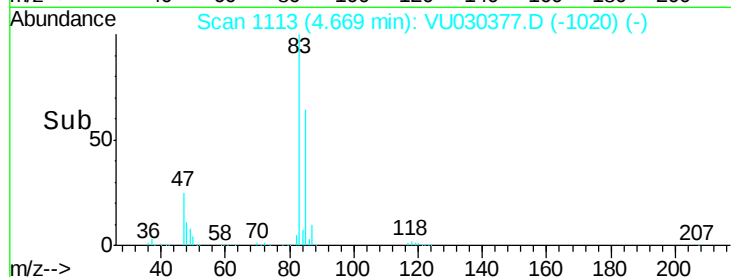
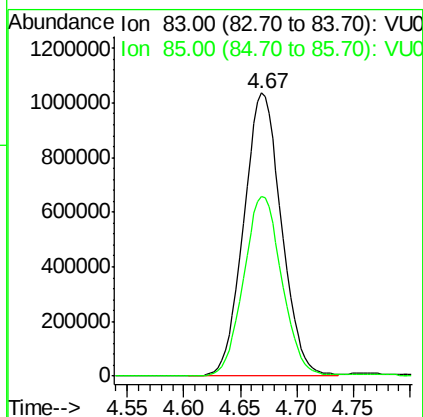
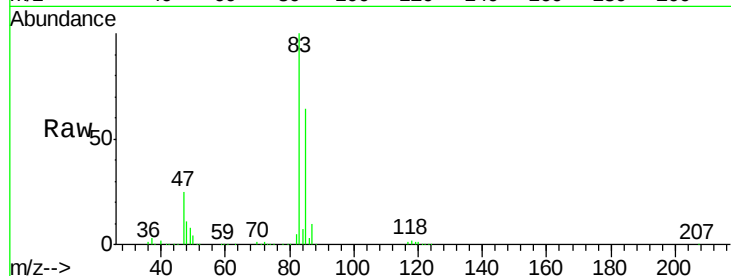
85 63.7 44.4 82.4

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3/25/2019 12:36:13 PM



#29

Cyclohexane

Concen: 9.378 ug/L

RT: 4.99 min Scan# 1214

Delta R.T. 0.00 min

Lab File: VU030377.D

Acq: 24 Mar 2019 17:48

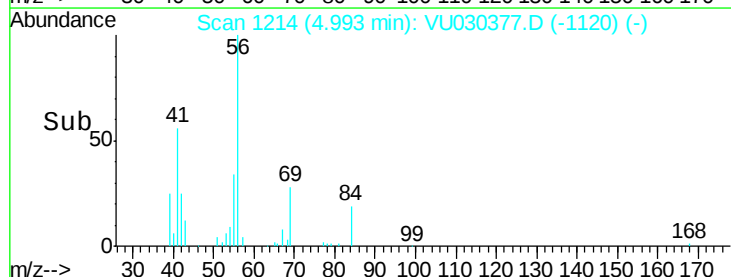
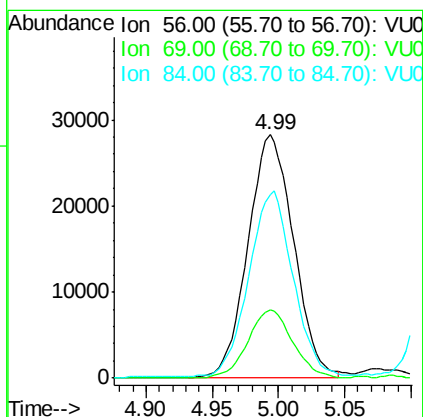
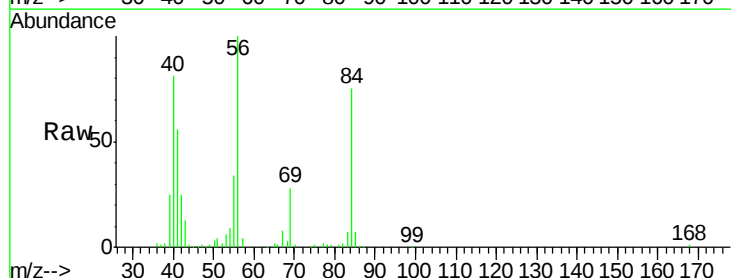
Tgt Ion: 56 Resp: 67731

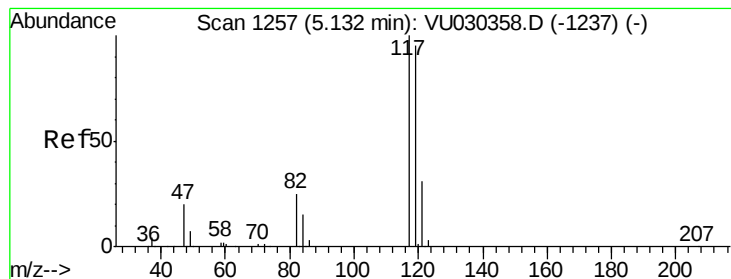
Ion Ratio Lower Upper

56 100

69 27.5 22.9 34.3

84 74.0 58.9 88.3





#31

Carbon tetrachloride

Concen: 149.034 ug/L

RT: 5.13 min Scan# 1258

Delta R.T. 0.00 min

Lab File: VU030377.D

Acq: 24 Mar 2019 17:48

Instrument :

MSVOA_U

ClientSampleId :

C0988

Tot Ion:117 Resp: 738163

Ion Ratio Lower Upper

117 100

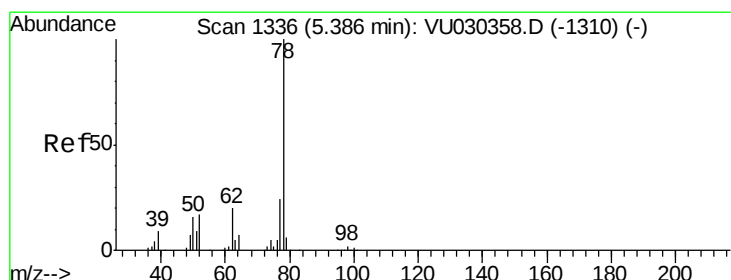
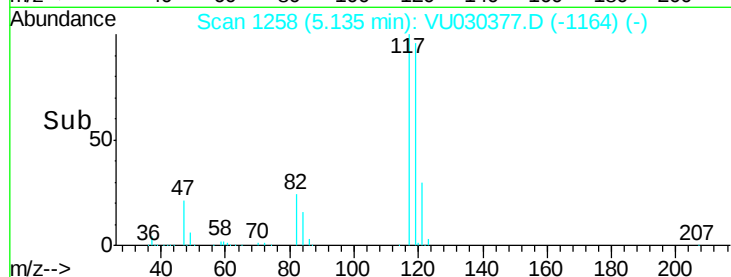
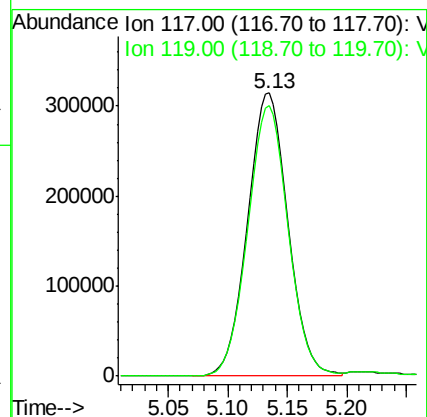
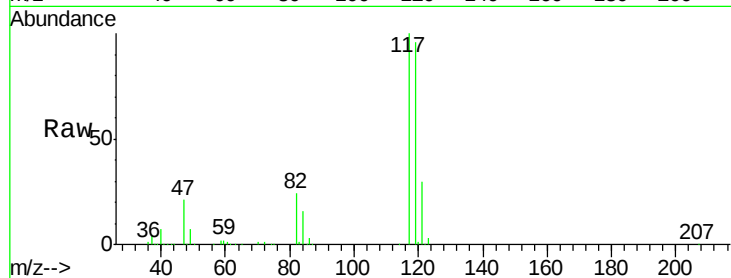
119 95.8 75.4 113.2

Manual Integrations

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3/25/2019 12:36:13 PM



#33

Benzene

Concen: 2769.440 ug/L m

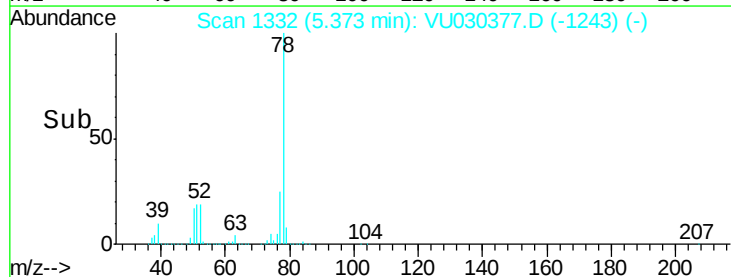
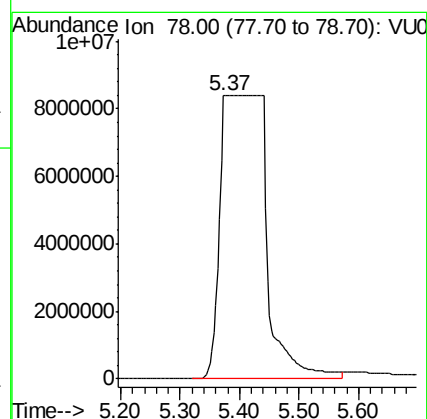
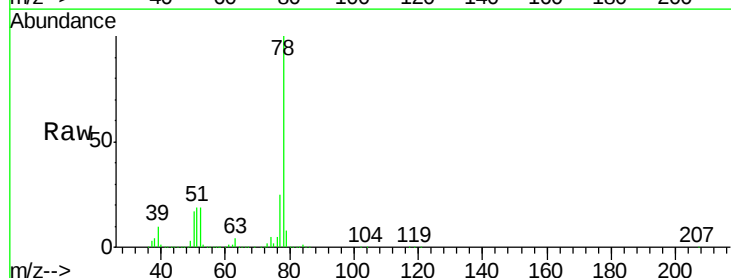
RT: 5.37 min Scan# 1332

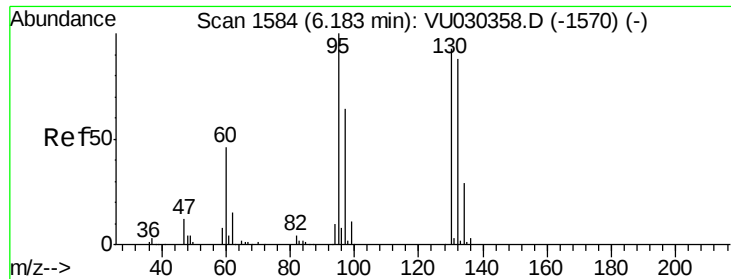
Delta R.T. -0.01 min

Lab File: VU030377.D

Acq: 24 Mar 2019 17:48

Tgt Ion: 78 Resp:44991033





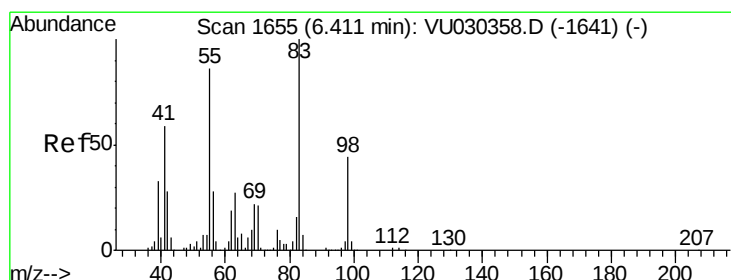
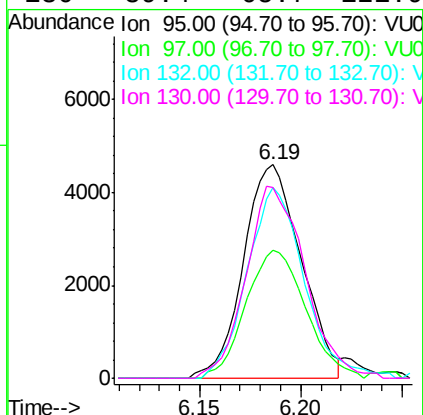
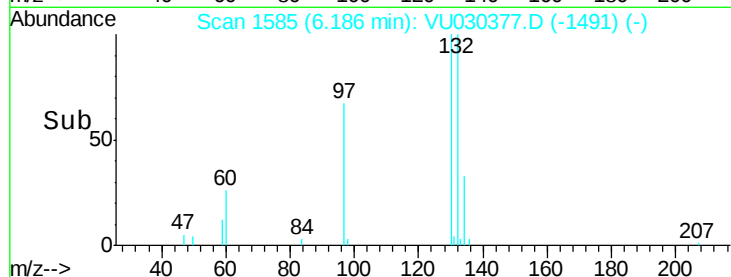
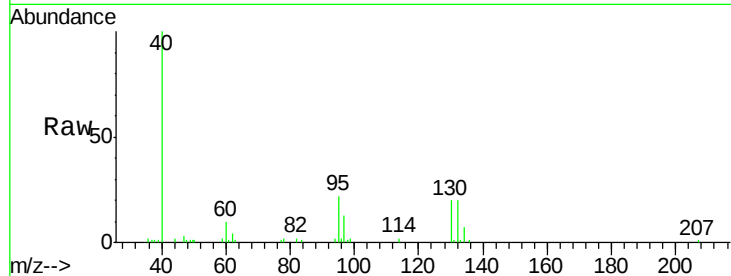
#34
 Trichloroethene
 Concen: 2.299 ug/L
 RT: 6.19 min Scan# 1585
 Delta R.T. 0.00 min
 Lab File: VU030377.D
 Acq: 24 Mar 2019 17:48

Instrument :
 MSVOA_U
 ClientSampled :
 C0988

Tot Ion:	95	Resp:	9181
Ion	Ratio	Lower	Upper
95	100		
97	59.9	45.7	84.9
132	89.6	63.8	118.4
130	89.4	65.7	121.9

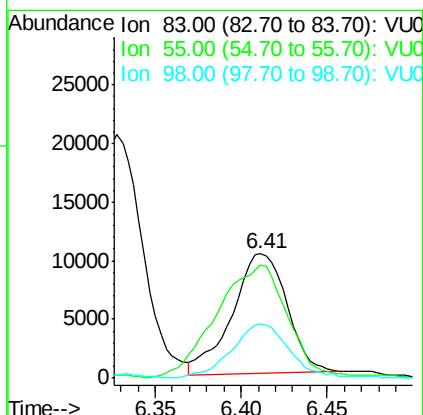
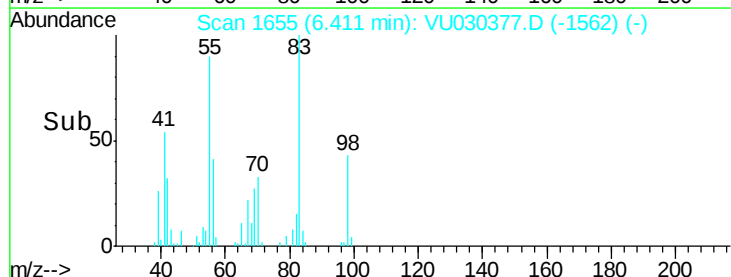
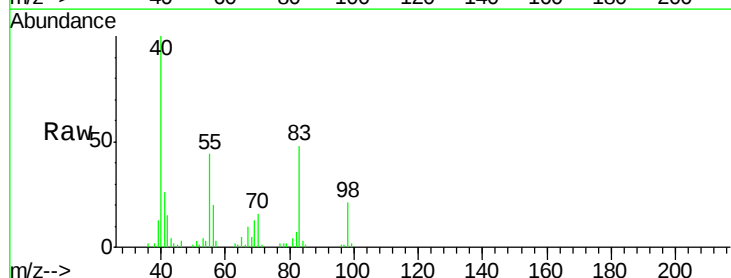
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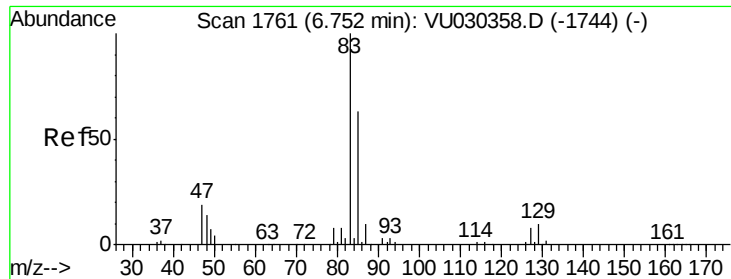
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#35
 Methylcyclohexane
 Concen: 3.426 ug/L
 RT: 6.41 min Scan# 1655
 Delta R.T. 0.00 min
 Lab File: VU030377.D
 Acq: 24 Mar 2019 17:48

Tgt Ion:	83	Resp:	22513
Ion	Ratio	Lower	Upper
83	100		
55	123.2	71.4	107.0#
98	46.5	36.0	54.0





#38

Bromodichloromethane

Concen: 4.567 ug/L

RT: 6.76 min Scan# 1762

Delta R.T. 0.00 min

Lab File: VU030377.D

Acq: 24 Mar 2019 17:48

Instrument :

MSVOA_U

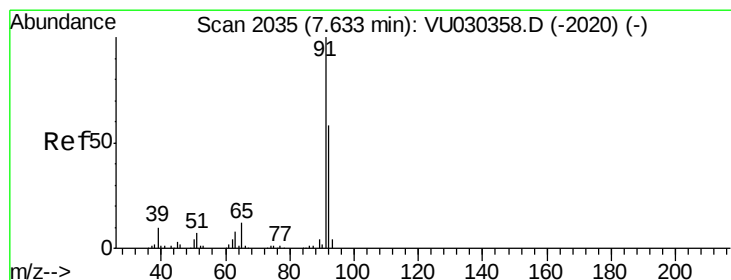
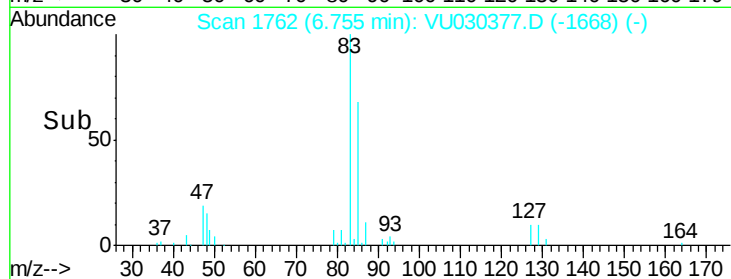
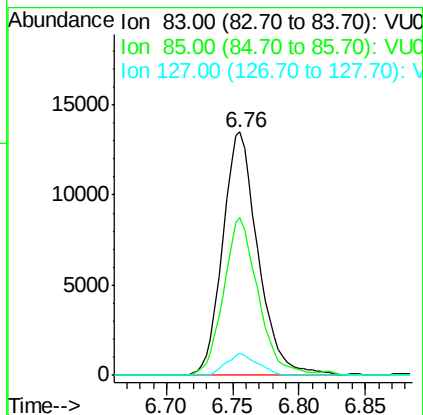
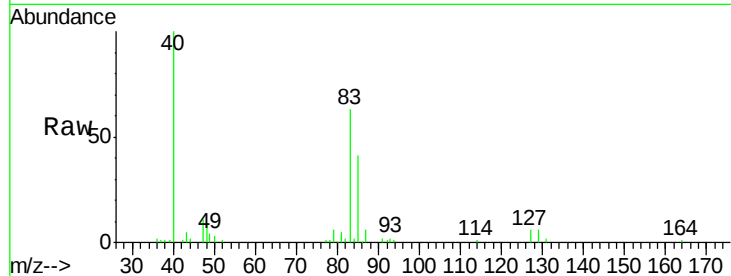
ClientSampleId :

C0988

Tot Ion:	83	Resp:	25020
Ion Ratio	Lower	Upper	
83	100		
85	64.9	45.0	83.6
127	9.1	6.6	10.0

Manual Integrations
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#42

Toluene

Concen: 3.347 ug/L

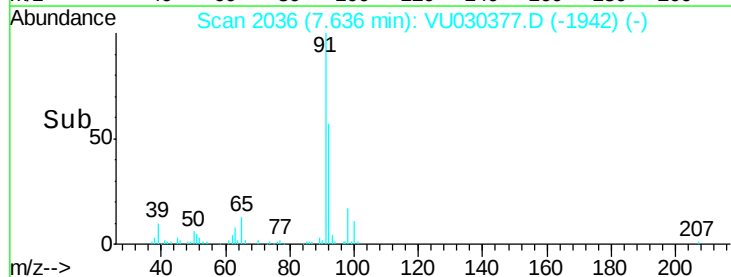
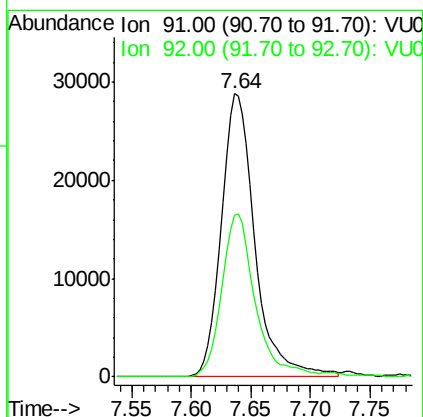
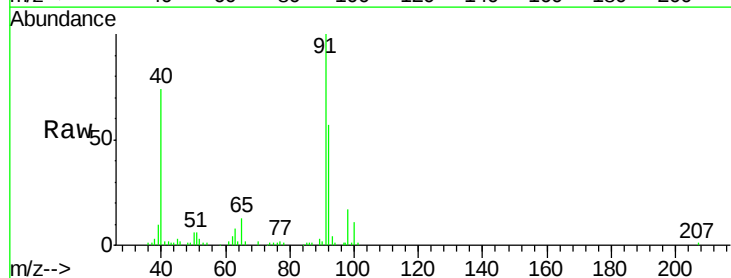
RT: 7.64 min Scan# 2036

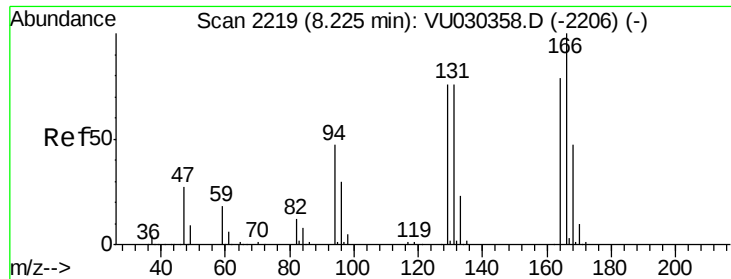
Delta R.T. 0.00 min

Lab File: VU030377.D

Acq: 24 Mar 2019 17:48

Tgt Ion:	91	Resp:	56426
Ion Ratio	Lower	Upper	
91	100		
92	56.9	39.7	73.7





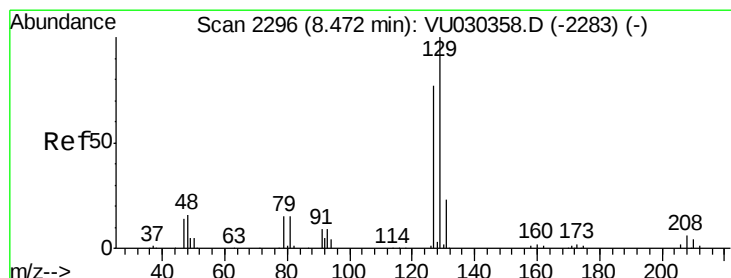
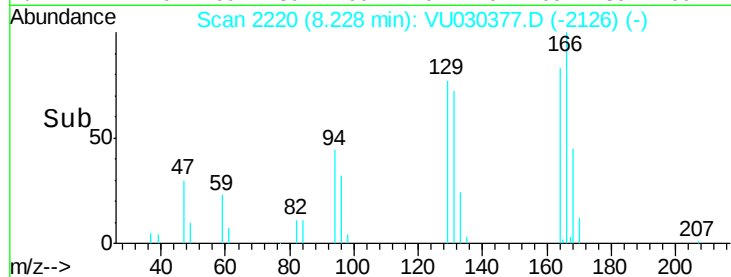
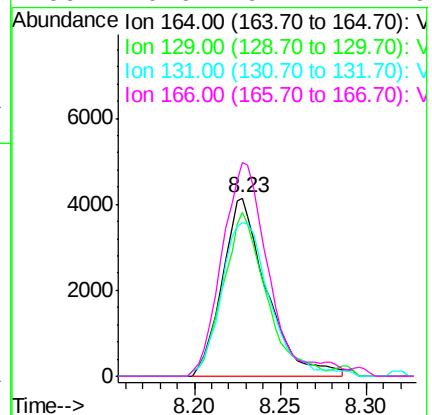
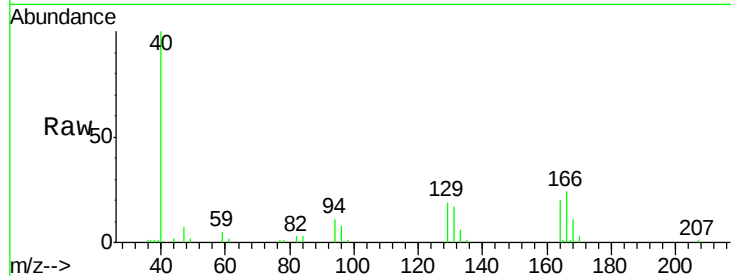
#46
Tetrachloroethene
Concen: 2.672 ug/L
RT: 8.23 min Scan# 2220
Delta R.T. 0.00 min
Lab File: VU030377.D
Acq: 24 Mar 2019 17:48

Instrument :
MSVOA_U
ClientSampled :
C0988

Tot Ion	Ratio	Lower	Upper
164	100		
129	92.2	68.1	126.5
131	86.4	67.7	125.7
166	119.9	92.4	171.6

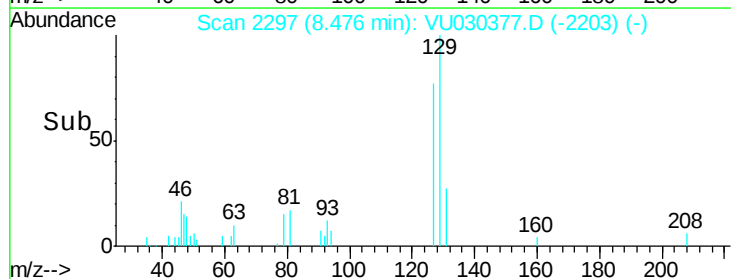
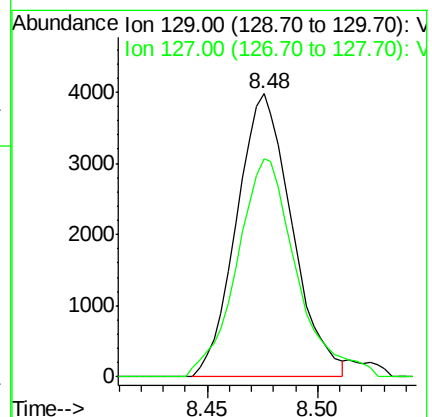
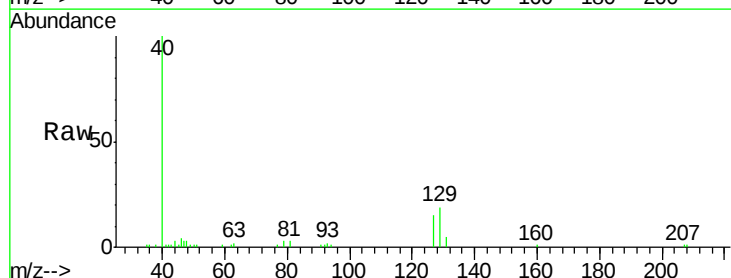
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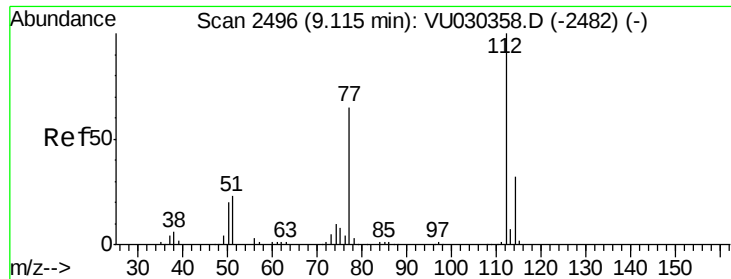
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3/25/2019 12:36:13 PM



#49
Dibromochloromethane
Concen: 1.711 ug/L
RT: 8.48 min Scan# 2297
Delta R.T. 0.00 min
Lab File: VU030377.D
Acq: 24 Mar 2019 17:48

Tgt Ion	Ratio	Lower	Upper
129	100		
127	77.2	53.2	98.8





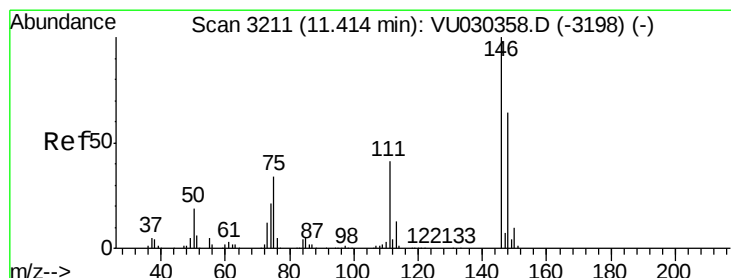
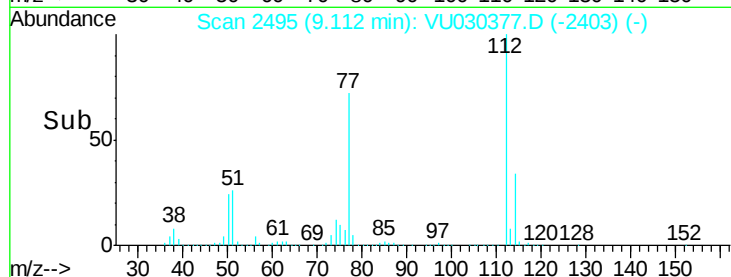
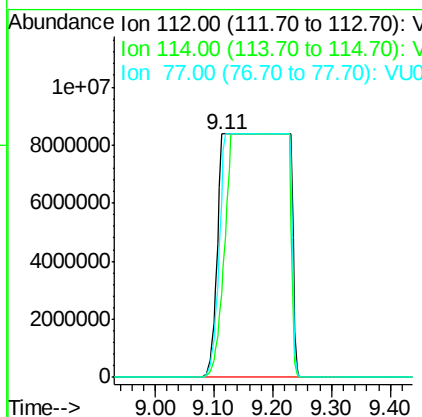
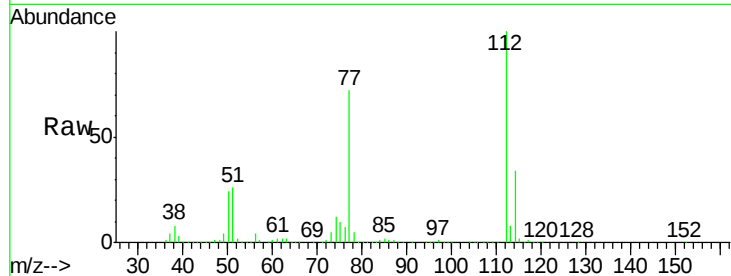
#51
Chlorobenzene
Concen: 6492.078 ug/L m
RT: 9.11 min Scan# 2495
Delta R.T. -0.00 min
Lab File: VU030377.D
Acq: 24 Mar 2019 17:48

Instrument :
MSVOA_U
ClientSampled :
C0988

Tot Ion:112 Resp:66337859
Ion Ratio Lower Upper
112 100
114 34.4 21.5 39.9
77 72.0 51.4 77.0

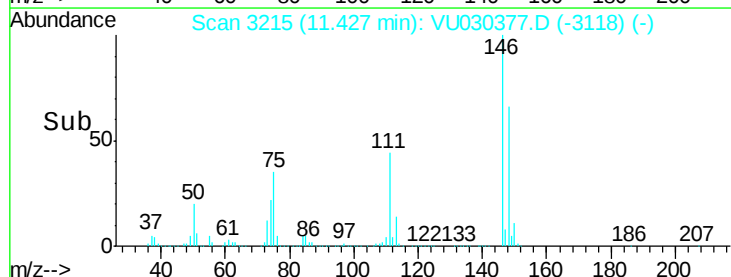
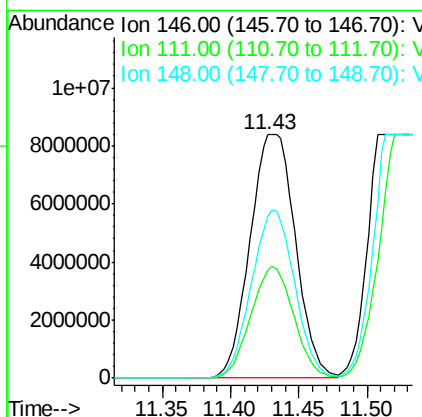
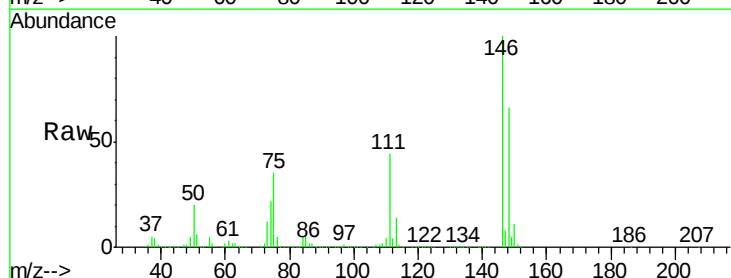
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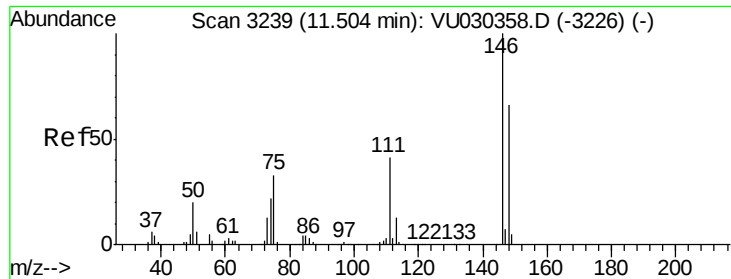
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#62
1,3-Dichlorobenzene
Concen: 2041.196 ug/L
RT: 11.43 min Scan# 3215
Delta R.T. 0.01 min
Lab File: VU030377.D
Acq: 24 Mar 2019 17:48

Tgt Ion:146 Resp:19342842
Ion Ratio Lower Upper
146 100
111 44.4 29.2 54.2
148 66.5 44.4 82.4





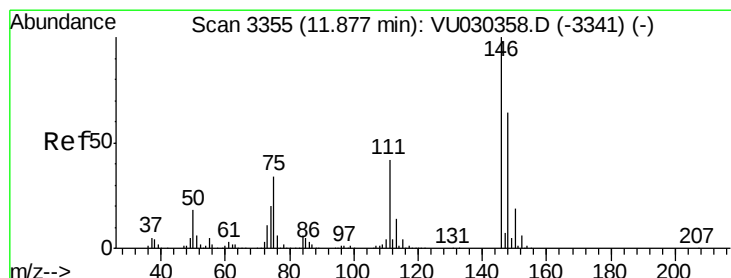
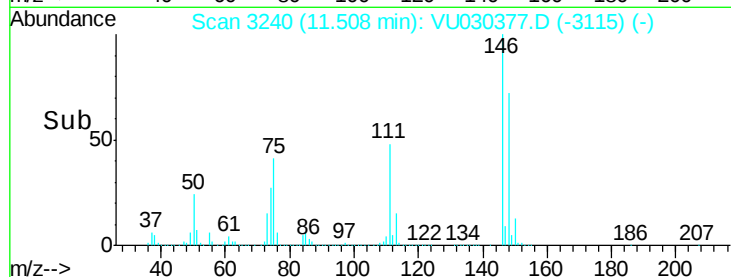
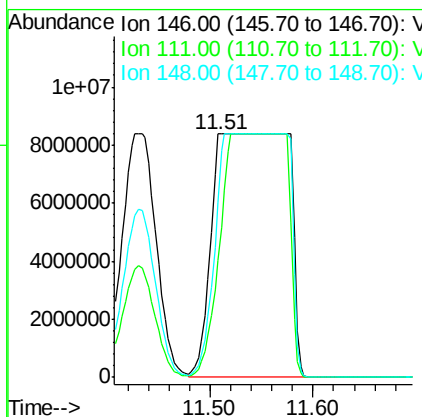
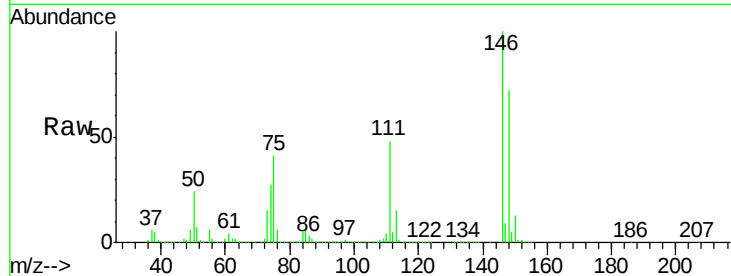
#63
 1,4-Dichlorobenzene
 Concen: 4346.437 ug/L m
 RT: 11.51 min Scan# 3240
 Delta R.T. 0.00 min
 Lab File: VU030377.D
 Acq: 24 Mar 2019 17:48

Instrument :
 MSVOA_U
 ClientSampleId :
 C0988

Tot Ion:146 Resp:42401799
 Ion Ratio Lower Upper
 146 100
 111 47.9 28.7 53.3
 148 71.8 44.3 82.3

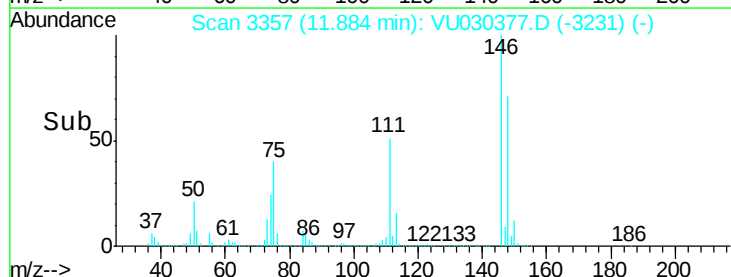
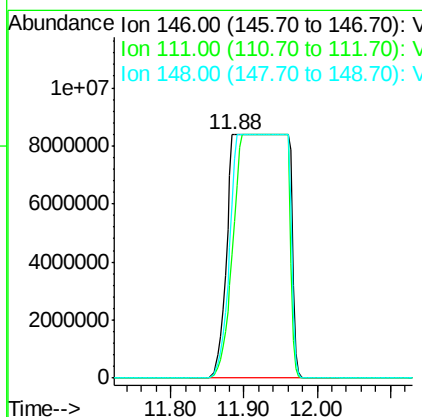
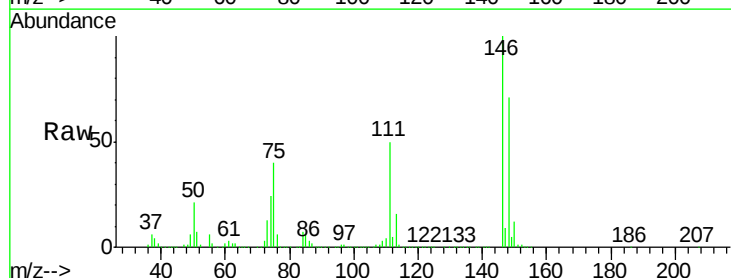
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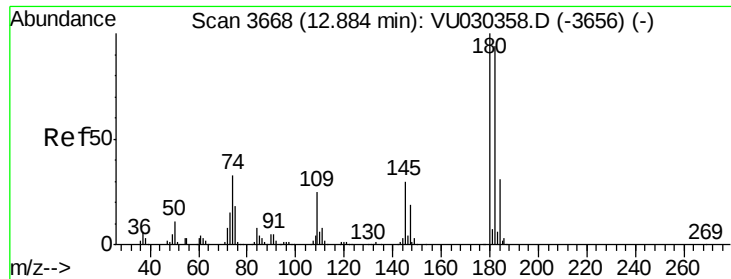
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#65
 1,2-Dichlorobenzene
 Concen: 4893.117 ug/L m
 RT: 11.88 min Scan# 3357
 Delta R.T. 0.01 min
 Lab File: VU030377.D
 Acq: 24 Mar 2019 17:48

Tgt Ion:146 Resp:46885689
 Ion Ratio Lower Upper
 146 100
 111 50.4 34.9 52.3
 148 71.0 51.2 76.8





#67

1,3,5-Trichlorobenzene

Concen: 2.692 ug/L

RT: 12.89 min Scan# 3669

Delta R.T. 0.00 min

Lab File: VU030377.D

Acq: 24 Mar 2019 17:48

Instrument :

MSVOA_U

ClientSampled :

C0988

Tot Ion:180 Resp: 19095

Ion Ratio Lower Upper

180 100

182 94.9 75.9 113.9

184 33.0 24.1 36.1

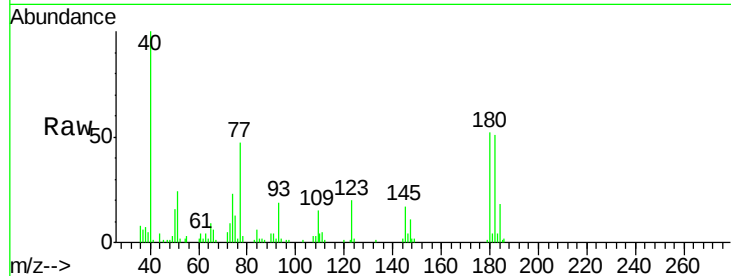
145 30.1 23.8 35.8

Manual Integrations

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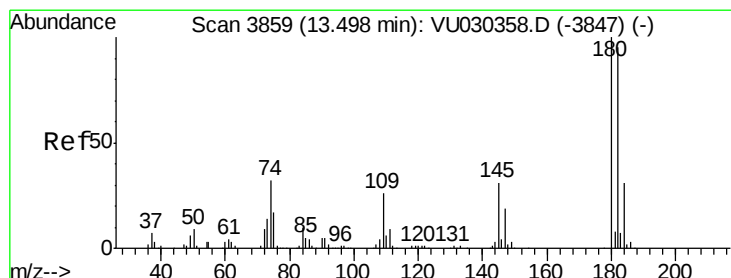
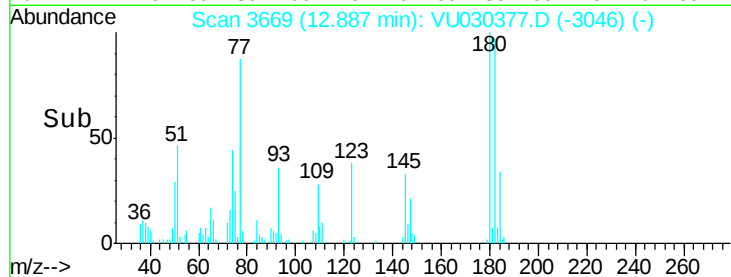
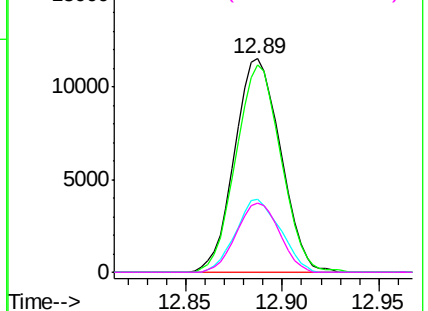


Abundance Ion 180.00 (179.70 to 180.70): V

Ion 182.00 (181.70 to 182.70): V

Ion 184.00 (183.70 to 184.70): V

Ion 145.00 (144.70 to 145.70): V



#68

1,2,4-trichlorobenzene

Concen: 3689.489 ug/L m

RT: 13.51 min Scan# 3862

Delta R.T. 0.01 min

Lab File: VU030377.D

Acq: 24 Mar 2019 17:48

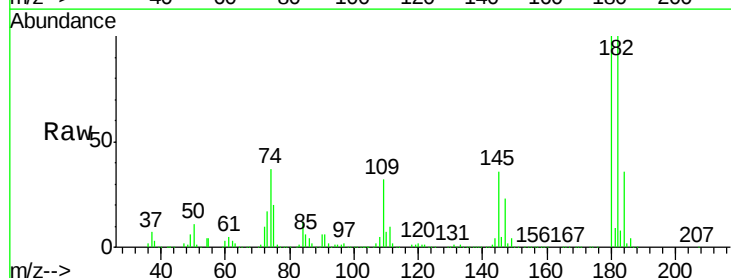
Tgt Ion:180 Resp:22741721

Ion Ratio Lower Upper

180 100

182 0.0 76.1 114.1#

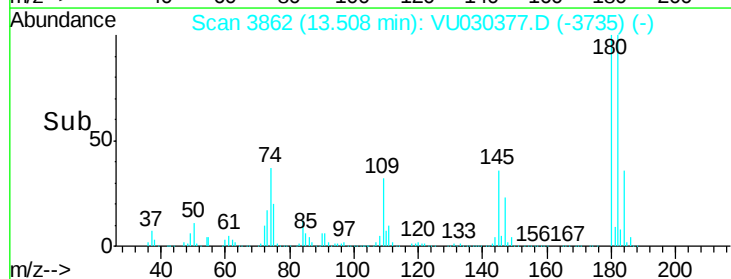
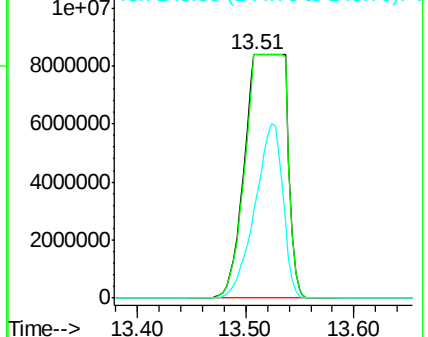
145 0.0 24.5 36.7#

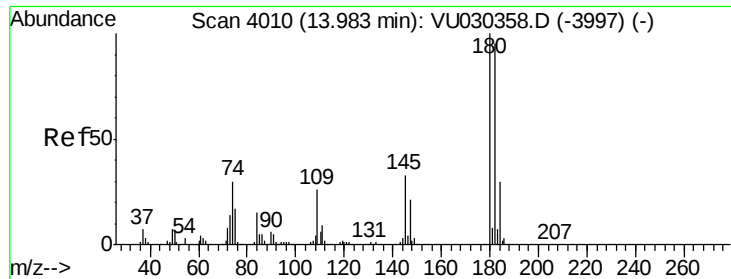


Abundance Ion 180.00 (179.70 to 180.70): V

Ion 182.00 (181.70 to 182.70): V

Ion 145.00 (144.70 to 145.70): V





#70
 1,2,3-Trichlorobenzene
 Concen: 1332.395 ug/L
 RT: 13.99 min Scan# 4013
 Delta R.T. 0.01 min
 Lab File: VU030377.D
 Acq: 24 Mar 2019 17:48

Instrument :
 MSVOA_U
 ClientSampleId :
 C0988

Tot Ion	Ratio	Lower	Upper
180	100		
182	96.1	77.4	116.2
145	32.3	25.9	38.9

Manual Integrations
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