

Data Path : Z:\voasrv\HPCHEM1\MSVOA U\Data\VU032419\
 Data File : VU030378.D
 Acq On : 24 Mar 2019 18:11
 Operator : JC/SP
 Sample : K2016-12
 Misc : 5.0mL/MSVOA U/WATER
 ALS Vial : 22 Sample Multiplier: 1

Instrument :
 MSVOA_U
 ClientSampleId :
 C0989

Manual Integrations
 APPROVED

MMDadoda
 3/25/2019 12:36:18 PM

Quant Time: Apr 06 00:05:30 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	443734	50.00	ug/L	0.00
28) Chlorobenzene-d5	9.10	117	438329	50.00	ug/L	0.00
60) 1,4-Dichlorobenzene-d4	11.50	152	251248	50.00	ug/L	0.02

System Monitoring Compounds

4) Vinyl Chloride-d3	1.40	65	135964	38.07	ug/L	0.00
Spiked Amount	50.000	Range	60 - 135	Recovery	=	76.14%
7) Chloroethane-d5	1.68	69	113209	40.00	ug/L	0.00
Spiked Amount	50.000	Range	70 - 130	Recovery	=	80.00%
11) 1,1-Dichloroethene-d2	2.27	63	199613	29.47	ug/L	0.00
Spiked Amount	50.000	Range	60 - 125	Recovery	=	58.94%#
21) 2-Butanone-d5	4.17	46	298822	89.01	ug/L	0.00
Spiked Amount	100.000	Range	40 - 130	Recovery	=	89.01%
24) Chloroform-d	4.64	84	268953	43.71	ug/L	0.00
Spiked Amount	50.000	Range	70 - 125	Recovery	=	87.42%
26) 1,2-Dichloroethane-d4	5.31	65	182445	45.31	ug/L	0.00
Spiked Amount	50.000	Range	70 - 125	Recovery	=	90.62%
32) Benzene-d6	5.34	84	566499	45.07	ug/L	0.00
Spiked Amount	50.000	Range	70 - 125	Recovery	=	90.14%
36) 1,2-Dichloropropane-d6	6.33	67	196402	45.67	ug/L	0.00
Spiked Amount	50.000	Range	70 - 120	Recovery	=	91.34%
41) Toluene-d8	7.56	98	510661	45.23	ug/L	0.00
Spiked Amount	50.000	Range	80 - 120	Recovery	=	90.46%
43) trans-1,3-Dichloropropene-	7.85	79	82768	40.93	ug/L	0.00
Spiked Amount	50.000	Range	60 - 125	Recovery	=	81.86%
47) 2-Hexanone-d5	8.31	63	202701	86.98	ug/L	0.00
Spiked Amount	100.000	Range	45 - 130	Recovery	=	86.98%
57) 1,1,2,2-Tetrachloroethane-	10.43	84	271184	44.06	ug/L	0.00
Spiked Amount	50.000	Range	65 - 120	Recovery	=	88.12%
64) 1,2-Dichlorobenzene-d4	11.90	152	265287	52.70	ug/L	0.04
Spiked Amount	50.000	Range	80 - 120	Recovery	=	105.40%

Target Compounds

					Ovalue
13) Acetone	2.32	43	14819	4.365	ug/L 98
25) Chloroform	4.67	83	42462	6.535	ug/L 97
29) Cyclohexane	4.99	56	13374	2.016	ug/L 99
31) Carbon tetrachloride	5.13	117	68244	15.001	ug/L 96
33) Benzene	5.38	78	24665582m	1653.060	ug/L
35) Methylcyclohexane	6.41	83	7941	1.316	ug/L # 81
42) Toluene	7.64	91	9414	0.608	ug/L 100
46) Tetrachloroethene	8.23	164	5656	2.208	ug/L 90
51) Chlorobenzene	9.12	112	28308553m	3016.276	ug/L
62) 1,3-Dichlorobenzene	11.42	146	6423317	781.759	ug/L 100
63) 1,4-Dichlorobenzene	11.51	146	30746483m	3634.911	ug/L
65) 1,2-Dichlorobenzene	11.88	146	40028018m	4817.910	ug/L
68) 1,2,4-trichlorobenzene	13.51	180	18243225m	3413.452	ug/L
70) 1,2,3-Trichlorobenzene	13.99	180	5090402	901.985	ug/L 100

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

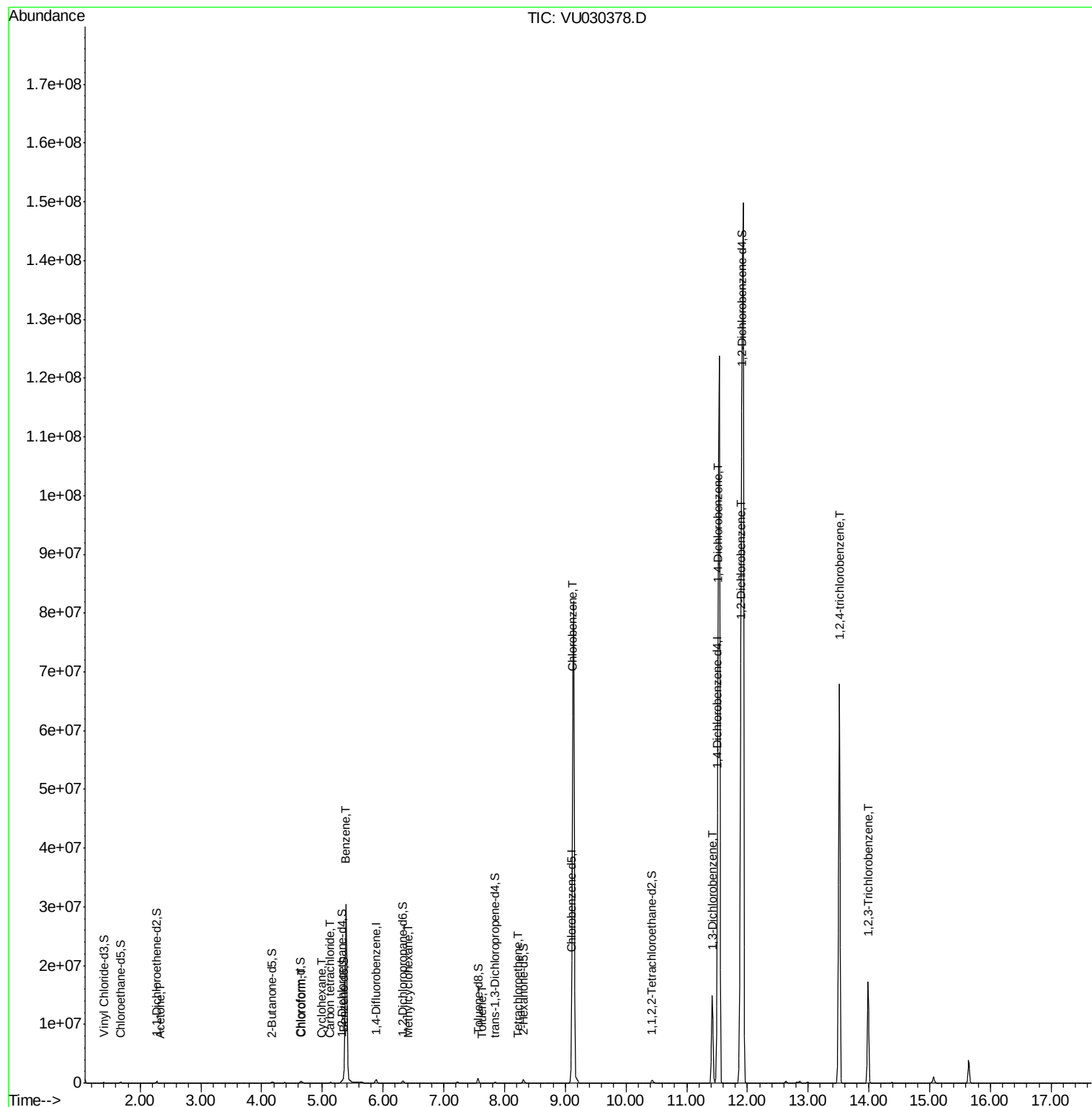
Data Path : Z:\voasrv\HPCHEM1\MSVOA U\Data\VU032419\
Data File : VU030378.D
Acq On : 24 Mar 2019 18:11
Operator : JC/SP
Sample : K2016-12
Misc : 5.0mL/MSVOA U/WATER
ALS Vial : 22 Sample Multiplier: 1

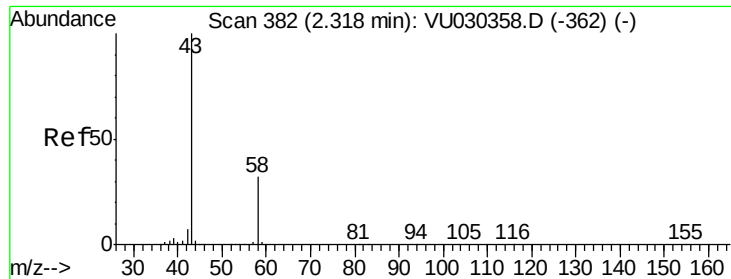
Instrument :
MSVOA_U
ClientSampleId :
C0989

Manual Integrations
APPROVED

MMDadoda
3/25/2019 12:36:18 PM

Quant Time: Apr 06 00:05:30 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





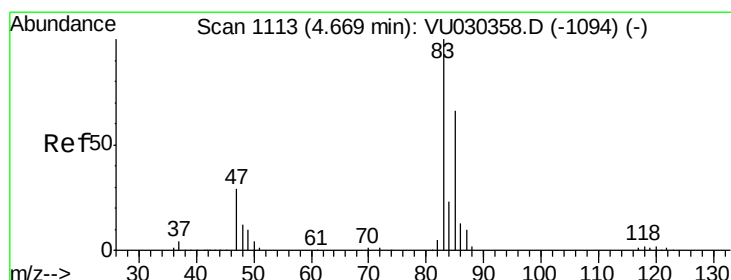
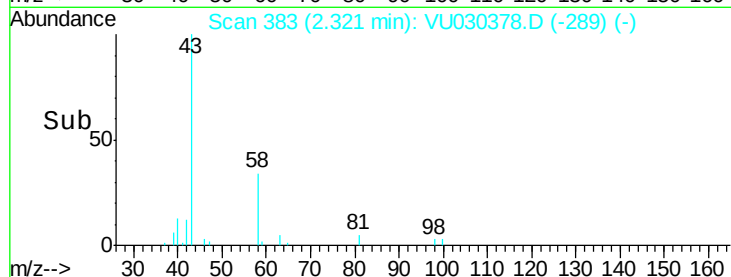
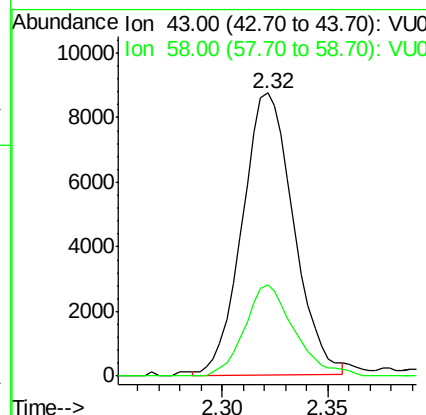
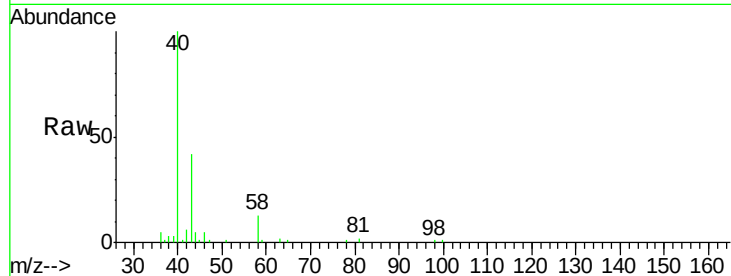
#13
Acetone
Concen: 4.365 ug/L
RT: 2.32 min Scan# 383
Delta R.T. 0.00 min
Lab File: VU030378.D
Acq: 24 Mar 2019 18:11

Instrument :
MSVOA_U
ClientSampled :
C0989

Tot Ion: 43 Resp: 14819
Ion Ratio Lower Upper
43 100
58 30.5 0.0 62.8

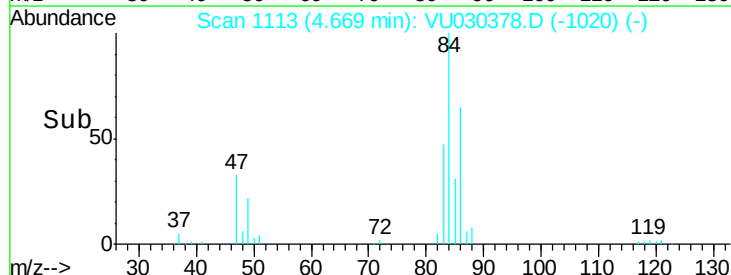
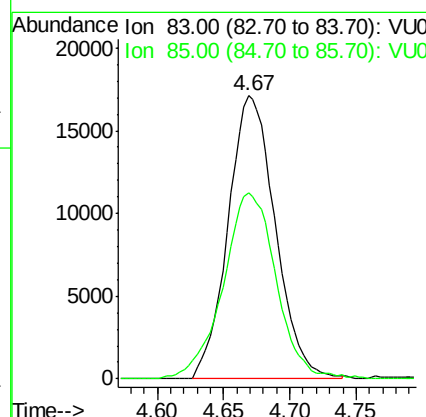
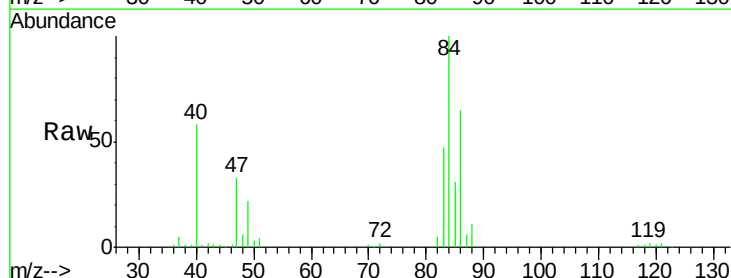
Manual Integrations
APPROVED

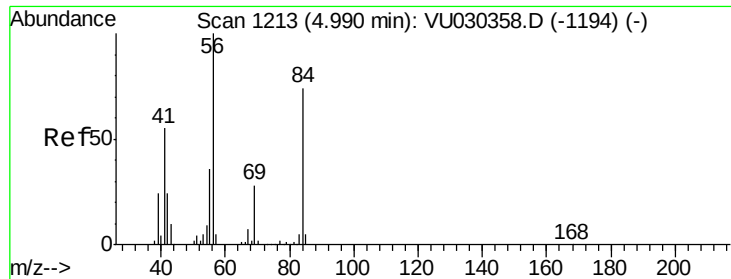
MMDadoda
3/25/2019 12:36:18 PM



#25
Chloroform
Concen: 6.535 ug/L
RT: 4.67 min Scan# 1113
Delta R.T. -0.00 min
Lab File: VU030378.D
Acq: 24 Mar 2019 18:11

Tgt Ion: 83 Resp: 42462
Ion Ratio Lower Upper
83 100
85 65.8 44.4 82.4





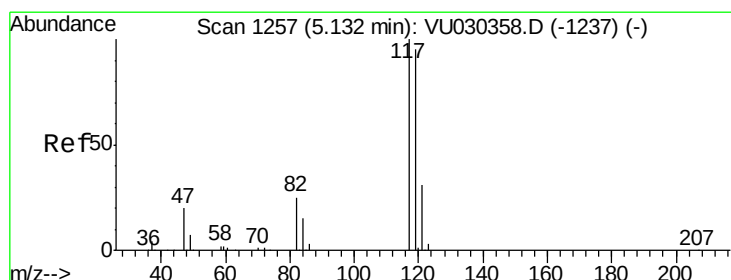
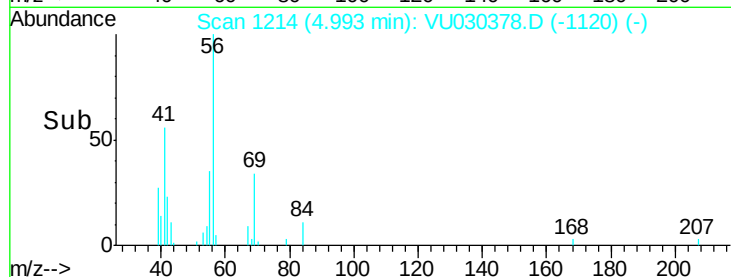
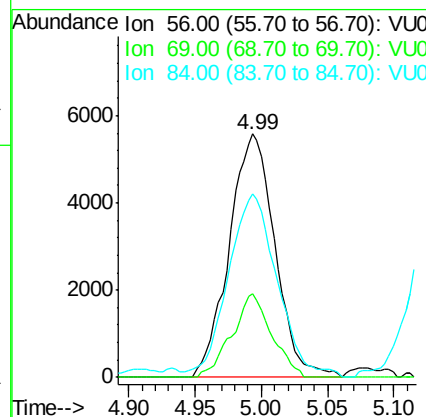
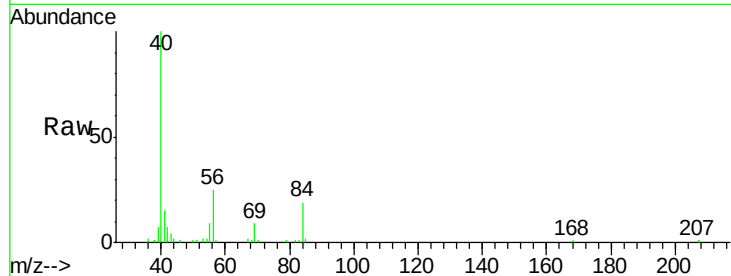
#29
Cyclohexane
Concen: 2.016 ug/L
RT: 4.99 min Scan# 1214
Delta R.T. 0.00 min
Lab File: VU030378.D
Acq: 24 Mar 2019 18:11

Instrument :
MSVOA_U
ClientSampleId :
C0989

Tot Ion	Ratio	Lower	Upper
56	100		
69	29.5	22.9	34.3
84	74.1	58.9	88.3

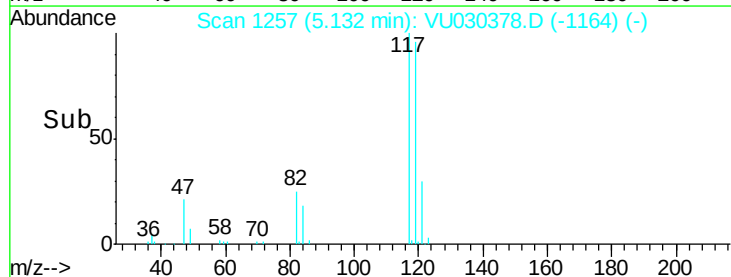
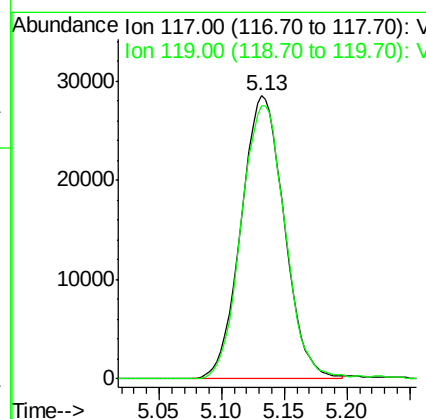
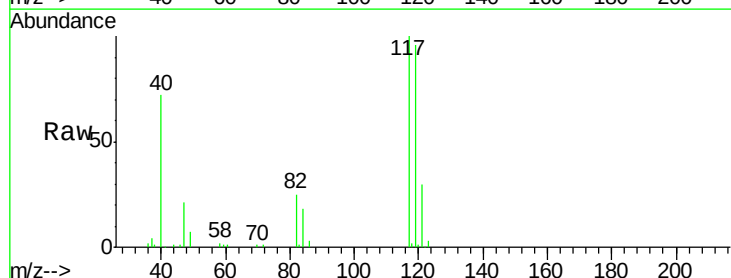
Manual Integrations
APPROVED

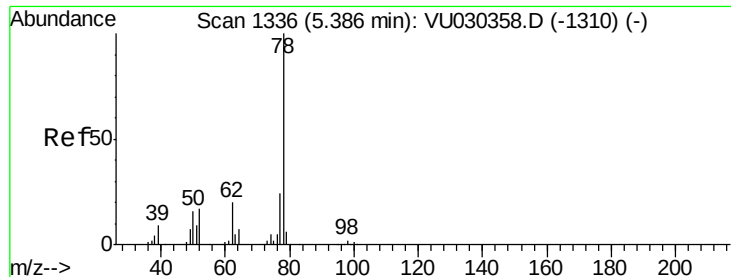
MMDadoda
3/25/2019 12:36:18 PM



#31
Carbon tetrachloride
Concen: 15.001 ug/L
RT: 5.13 min Scan# 1257
Delta R.T. -0.00 min
Lab File: VU030378.D
Acq: 24 Mar 2019 18:11

Tgt Ion	Ratio	Lower	Upper
117	100		
119	97.8	75.4	113.2





#33

Benzene

Concen: 1653.060 ug/L m

RT: 5.38 min Scan# 1334

Delta R.T. -0.01 min

Lab File: VU030378.D

Acq: 24 Mar 2019 18:11

Instrument :

MSVOA_U

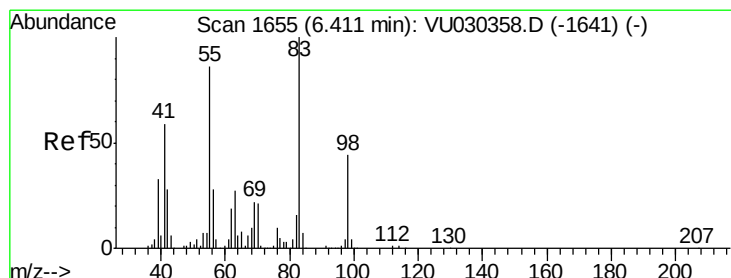
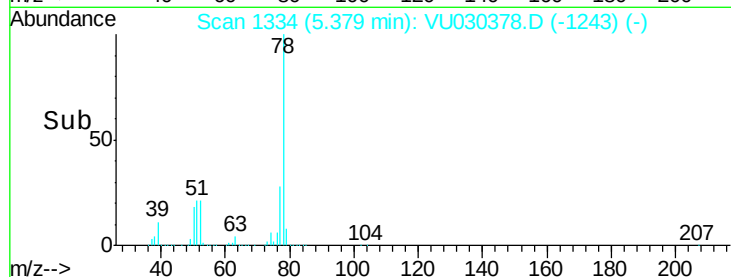
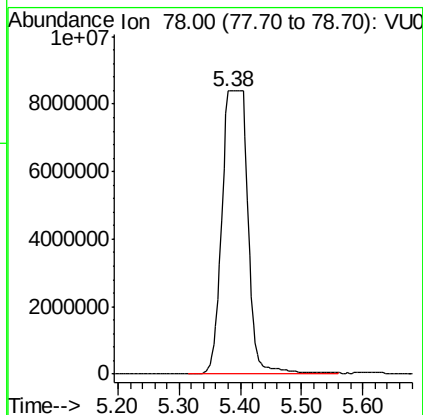
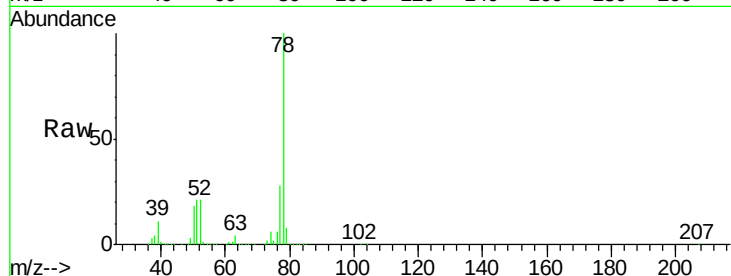
ClientSampleId :

C0989

Tgt Ion: 78 Resp:24665582

Manual Integrations
APPROVED

MMDadoda
3/25/2019 12:36:18 PM



#35

Methylcyclohexane

Concen: 1.316 ug/L

RT: 6.41 min Scan# 1656

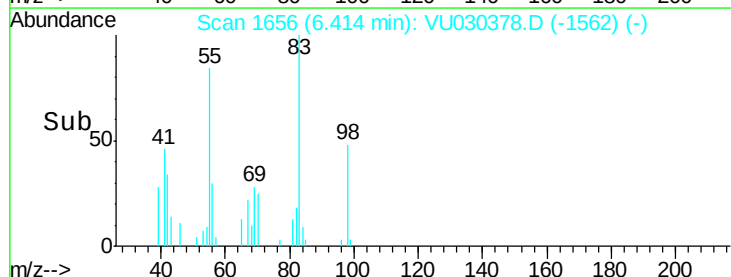
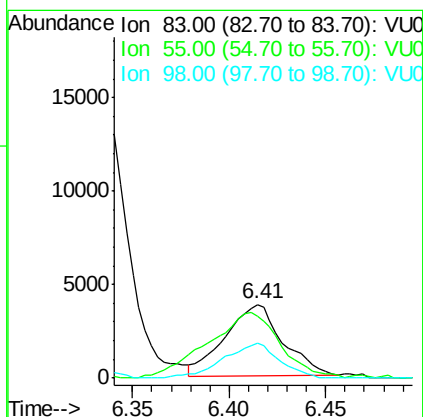
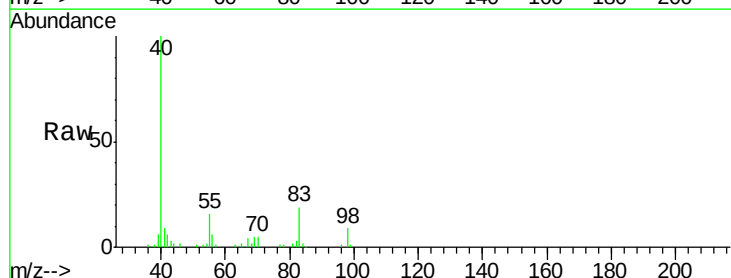
Delta R.T. 0.00 min

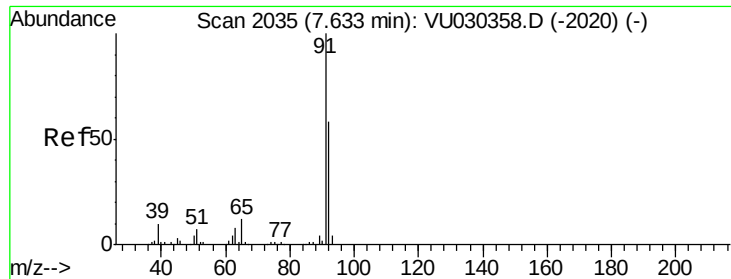
Lab File: VU030378.D

Acq: 24 Mar 2019 18:11

Tgt Ion: 83 Resp: 7941

Ion	Ratio	Lower	Upper
83	100		
55	114.9	71.4	107.0#
98	46.9	36.0	54.0





#42

Toluene

Concen: 0.608 ug/L

RT: 7.64 min Scan# 2037

Delta R.T. 0.01 min

Lab File: VU030378.D

Acq: 24 Mar 2019 18:11

Instrument :

MSVOA_U

ClientSampled :

C0989

Tot Ion: 91 Resp: 9414

Ion Ratio Lower Upper

91 100

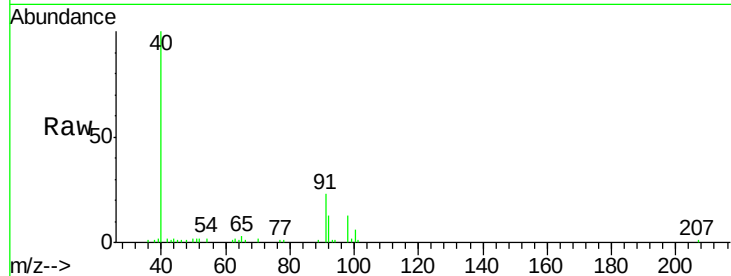
92 56.5 39.7 73.7

Manual Integrations

APPROVED

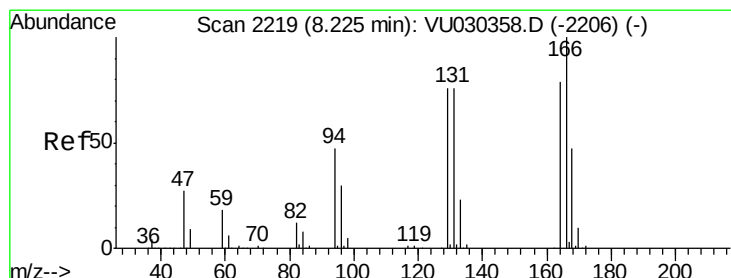
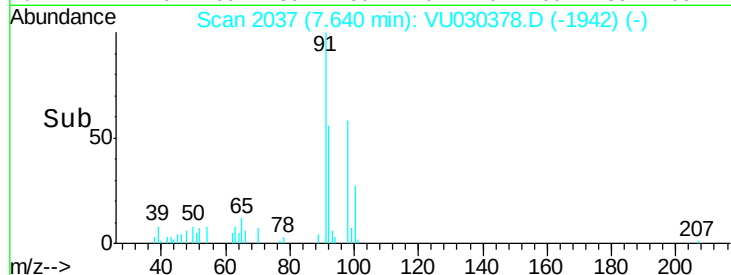
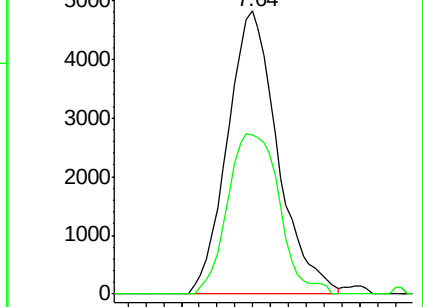
MMDadoda

3/25/2019 12:36:18 PM



Abundance Ion 91.00 (90.70 to 91.70): VU030378.D (-2020) (-)

Ion 92.00 (91.70 to 92.70): VU030378.D (-2020) (-)



#46

Tetrachloroethene

Concen: 2.208 ug/L

RT: 8.23 min Scan# 2220

Delta R.T. 0.00 min

Lab File: VU030378.D

Acq: 24 Mar 2019 18:11

Tgt Ion: 164 Resp: 5656

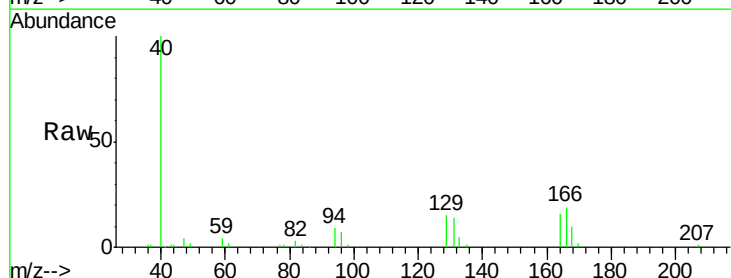
Ion Ratio Lower Upper

164 100

129 93.7 68.1 126.5

131 87.0 67.7 125.7

166 115.9 92.4 171.6

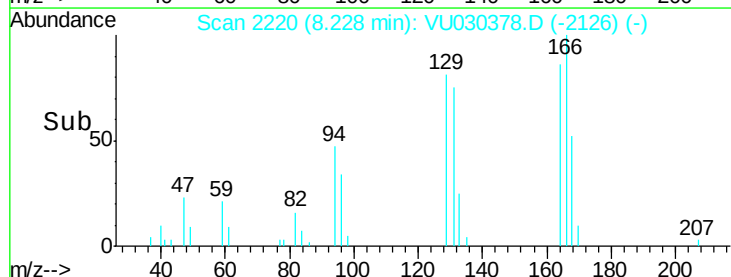
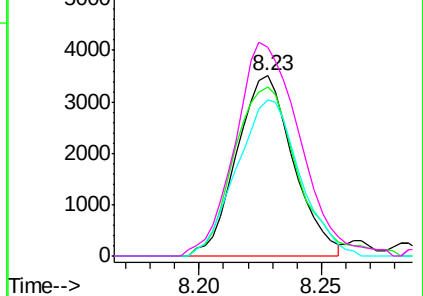


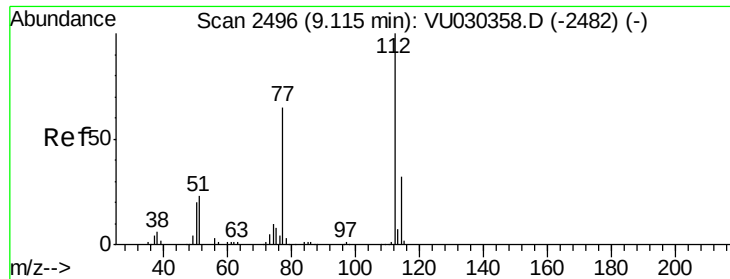
Abundance Ion 164.00 (163.70 to 164.70): VU030378.D (-2206) (-)

Ion 129.00 (128.70 to 129.70): VU030378.D (-2206) (-)

Ion 131.00 (130.70 to 131.70): VU030378.D (-2206) (-)

Ion 166.00 (165.70 to 166.70): VU030378.D (-2206) (-)





#51

Chlorobenzene

Concen: 3016.276 ug/L m

RT: 9.12 min Scan# 2496

Delta R.T. -0.00 min

Lab File: VU030378.D

Acq: 24 Mar 2019 18:11

Instrument :

MSVOA_U

ClientSampled :

C0989

Tot Ion:112 Resp:28308553

Ion Ratio Lower Upper

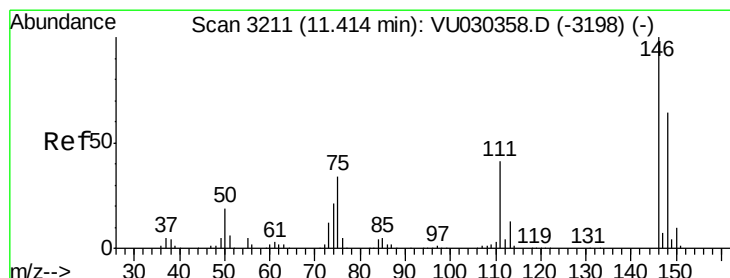
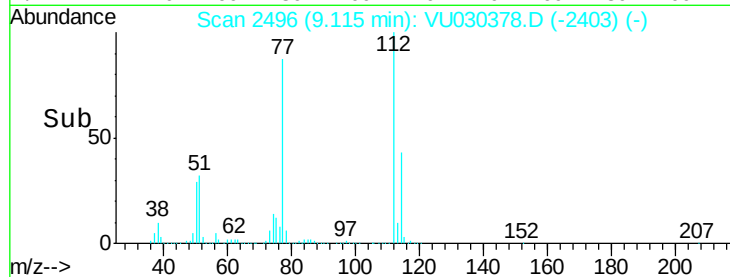
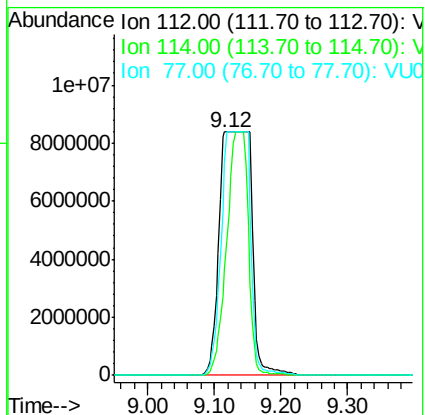
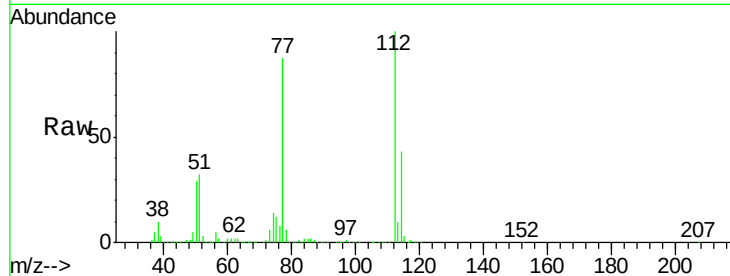
112 100

114 43.1 21.5 39.9#

77 87.2 51.4 77.0#

Manual Integrations
APPROVED

MMDadoda
3/25/2019 12:36:18 PM



#62

1,3-Dichlorobenzene

Concen: 781.759 ug/L

RT: 11.42 min Scan# 3213

Delta R.T. 0.01 min

Lab File: VU030378.D

Acq: 24 Mar 2019 18:11

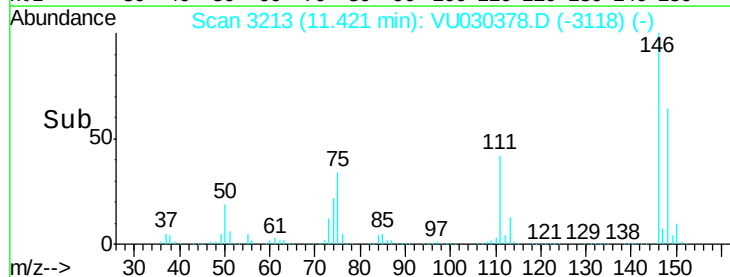
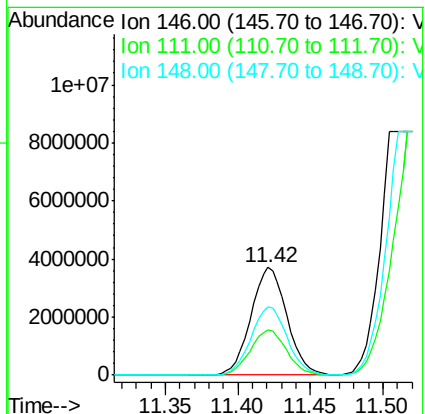
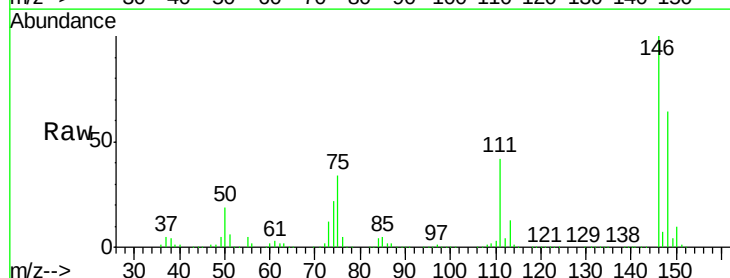
Tgt Ion:146 Resp: 6423317

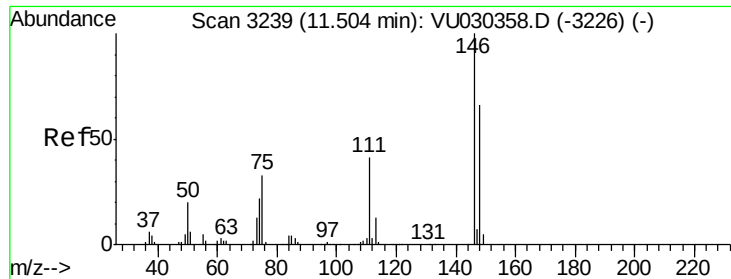
Ion Ratio Lower Upper

146 100

111 41.9 29.2 54.2

148 63.8 44.4 82.4





#63

1,4-Dichlorobenzene

Concen: 3634.911 ug/L m

RT: 11.51 min Scan# 3240

Delta R.T. 0.00 min

Lab File: VU030378.D

Acq: 24 Mar 2019 18:11

Instrument :

MSVOA_U

ClientSampled :

C0989

Tot Ion:146 Resp:30746483

Ion Ratio Lower Upper

146 100

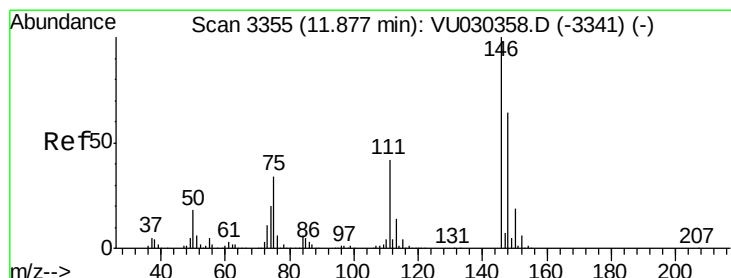
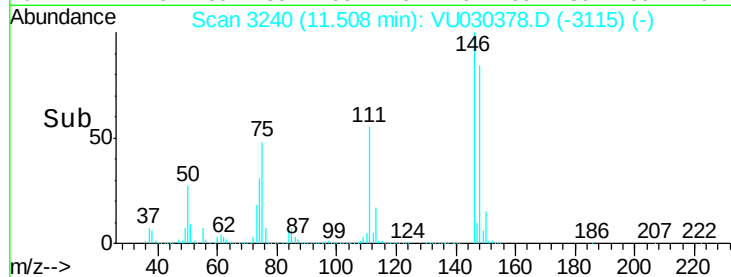
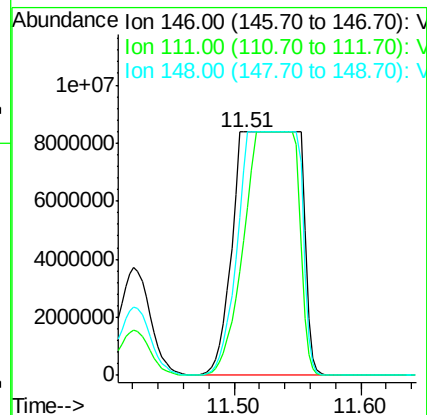
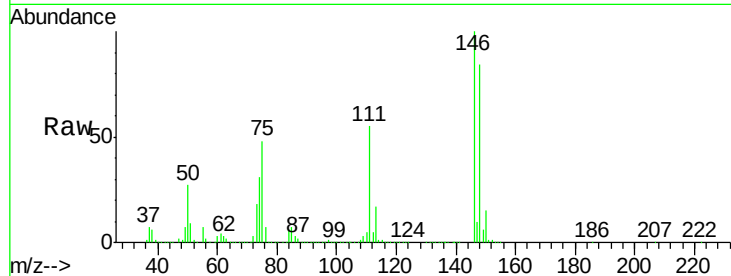
111 55.4 28.7 53.3#

148 84.3 44.3 82.3#

Manual Integrations
APPROVED

MMDadoda

3/25/2019 12:36:18 PM



#65

1,2-Dichlorobenzene

Concen: 4817.910 ug/L m

RT: 11.88 min Scan# 3356

Delta R.T. 0.00 min

Lab File: VU030378.D

Acq: 24 Mar 2019 18:11

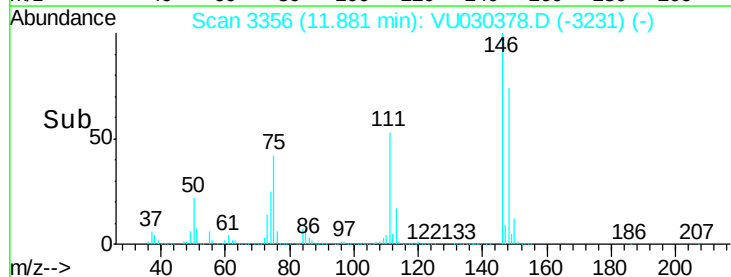
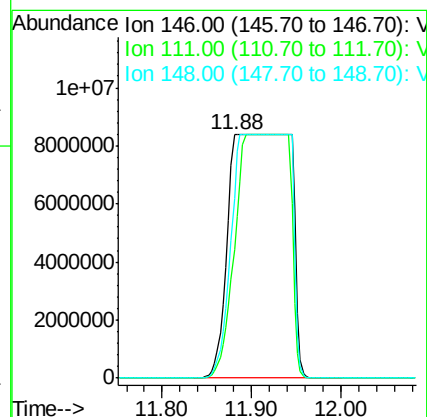
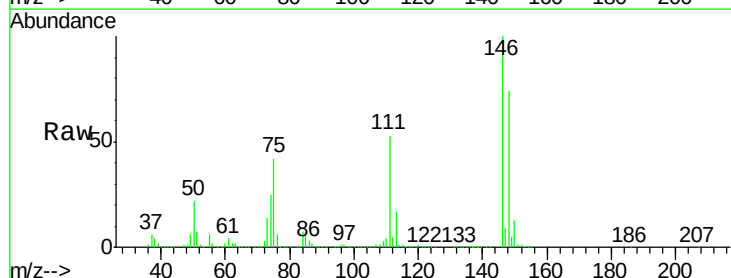
Tgt Ion:146 Resp:40028018

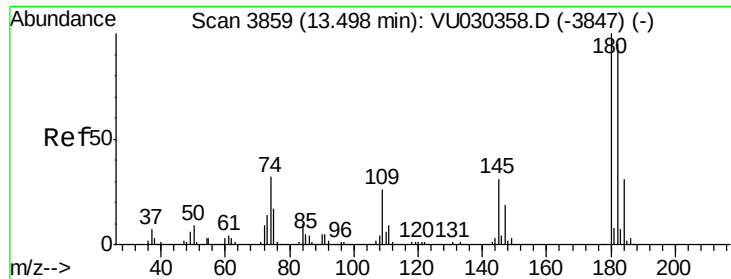
Ion Ratio Lower Upper

146 100

111 52.7 34.9 52.3#

148 73.8 51.2 76.8





#68

1,2,4-trichlorobenzene

Concen: 3413.452 ug/L m

RT: 13.51 min Scan# 3862

Delta R.T. 0.01 min

Lab File: VU030378.D

Acq: 24 Mar 2019 18:11

Instrument :

MSVOA_U

ClientSampled :

C0989

Tot Ion:180 Resp:18243225

Ion Ratio Lower Upper

180 100

182 0.0 76.1 114.1#

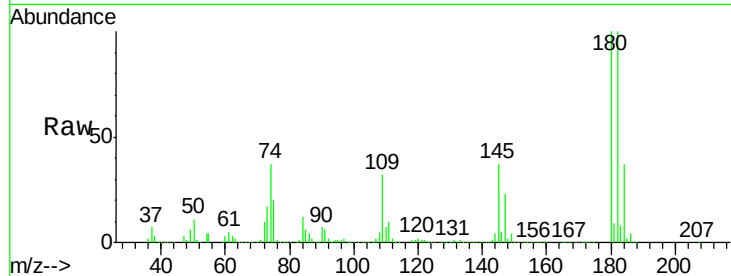
145 0.0 24.5 36.7#

Manual Integrations

APPROVED

MMDadoda

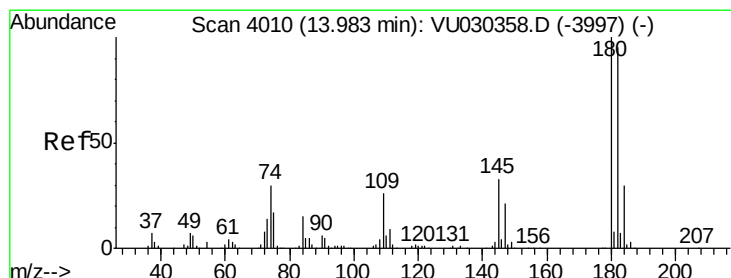
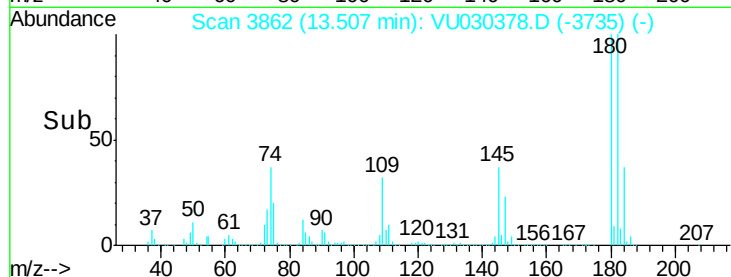
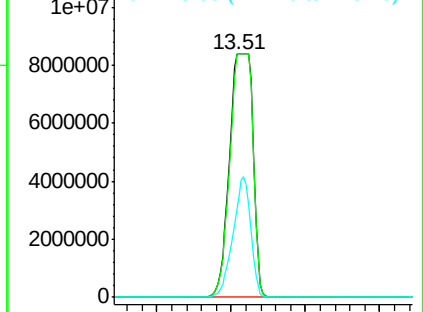
3/25/2019 12:36:18 PM



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



#70

1,2,3-Trichlorobenzene

Concen: 901.985 ug/L

RT: 13.99 min Scan# 4012

Delta R.T. 0.01 min

Lab File: VU030378.D

Acq: 24 Mar 2019 18:11

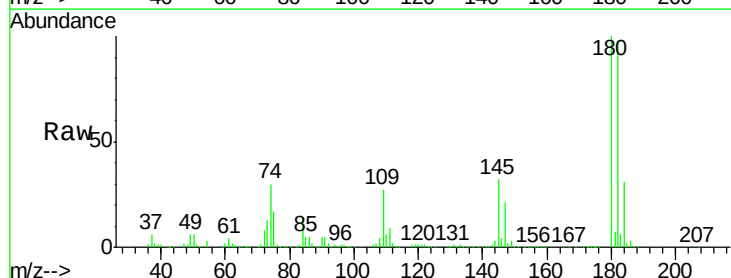
Tgt Ion:180 Resp: 5090402

Ion Ratio Lower Upper

180 100

182 96.3 77.4 116.2

145 32.3 25.9 38.9



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

