

Data Path : Z:\VOASRV\HPCHEM1\MSVOA U\DATA\VU092319\
 Data File : VU034733.D
 Acq On : 23 Sep 2019 15:06
 Operator : JC/SP
 Sample : K4982-04 10X
 Misc : 3.99g/5.0mL/100uL/10mL/MSVOA_U/MEOH
 ALS Vial : 9 Sample Multiplier: 1

Instrument :
 MSVOA_U
 ClientSampleId :
 C0AT5

Manual Integrations
 APPROVED

MMDadoda
 9/24/2019 10:45:44 AM

Quant Time: Sep 24 02:24:32 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_U\METHOD\SOMULM091919WMA.M
 Quant Title : VOC Analysis
 QLast Update : Tue Sep 24 01:52:59 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Difluorobenzene	5.86	114	498848	50.00	ug/L	0.00
28) Chlorobenzene-d5	9.07	117	486527	50.00	ug/L	0.00
60) 1,4-Dichlorobenzene-d4	11.46	152	255234	50.00	ug/L	0.00

System Monitoring Compounds

4) Vinyl Chloride-d3	1.39	65	213218	41.75	ug/L	0.00
Spiked Amount	50.000	Range	60 - 135	Recovery	=	83.50%
7) Chloroethane-d5	1.66	69	165598	41.96	ug/L	-0.01
Spiked Amount	50.000	Range	70 - 130	Recovery	=	83.92%
11) 1,1-Dichloroethene-d2	2.25	63	287811	33.28	ug/L	0.00
Spiked Amount	50.000	Range	60 - 125	Recovery	=	66.56%
21) 2-Butanone-d5	4.15	46	362057	92.50	ug/L	0.00
Spiked Amount	100.000	Range	40 - 130	Recovery	=	92.50%
24) Chloroform-d	4.62	84	329765	44.42	ug/L	0.00
Spiked Amount	50.000	Range	70 - 125	Recovery	=	88.84%
26) 1,2-Dichloroethane-d4	5.28	65	253217	46.40	ug/L	0.00
Spiked Amount	50.000	Range	70 - 125	Recovery	=	92.80%
32) Benzene-d6	5.32	84	709277	47.03	ug/L	0.00
Spiked Amount	50.000	Range	70 - 125	Recovery	=	94.06%
36) 1,2-Dichloropropane-d6	6.31	67	248264	47.10	ug/L	0.00
Spiked Amount	50.000	Range	70 - 120	Recovery	=	94.20%
41) Toluene-d8	7.54	98	688932	48.02	ug/L	0.00
Spiked Amount	50.000	Range	80 - 120	Recovery	=	96.04%
43) trans-1,3-Dichloropropene-	7.83	79	118334	46.88	ug/L	0.00
Spiked Amount	50.000	Range	60 - 125	Recovery	=	93.76%
47) 2-Hexanone-d5	8.29	63	253305	95.68	ug/L	0.00
Spiked Amount	100.000	Range	45 - 130	Recovery	=	95.68%
57) 1,1,2,2-Tetrachloroethane-	10.41	84	340927	46.62	ug/L	0.00
Spiked Amount	50.000	Range	65 - 120	Recovery	=	93.24%
64) 1,2-Dichlorobenzene-d4	11.84	152	256209m	47.87	ug/L	0.00
Spiked Amount	50.000	Range	80 - 120	Recovery	=	95.74%

Target Compounds

Target Compounds	R.T.	QIon	Response	Conc	Units	Ovalue
42) Toluene	7.62	91	36750	2.015	ug/L	89
51) Chlorobenzene	9.10	112	142814	12.883	ug/L	97
52) Ethylbenzene	9.23	91	1229226	59.859	ug/L	99
53) m,p-Xylene	9.35	106	1406132	193.322	ug/L	99
54) o-xylene	9.76	106	334111	46.442	ug/L	97
62) 1,3-Dichlorobenzene	11.40	146	2079329	235.246	ug/L	96
63) 1,4-Dichlorobenzene	11.49	146	2995994	332.738	ug/L	97
65) 1,2-Dichlorobenzene	11.86	146	5991638	670.887	ug/L	98
68) 1,2,4-trichlorobenzene	13.48	180	221782	47.622	ug/L	98
70) 1,2,3-Trichlorobenzene	13.97	180	69513	14.506	ug/L	97

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

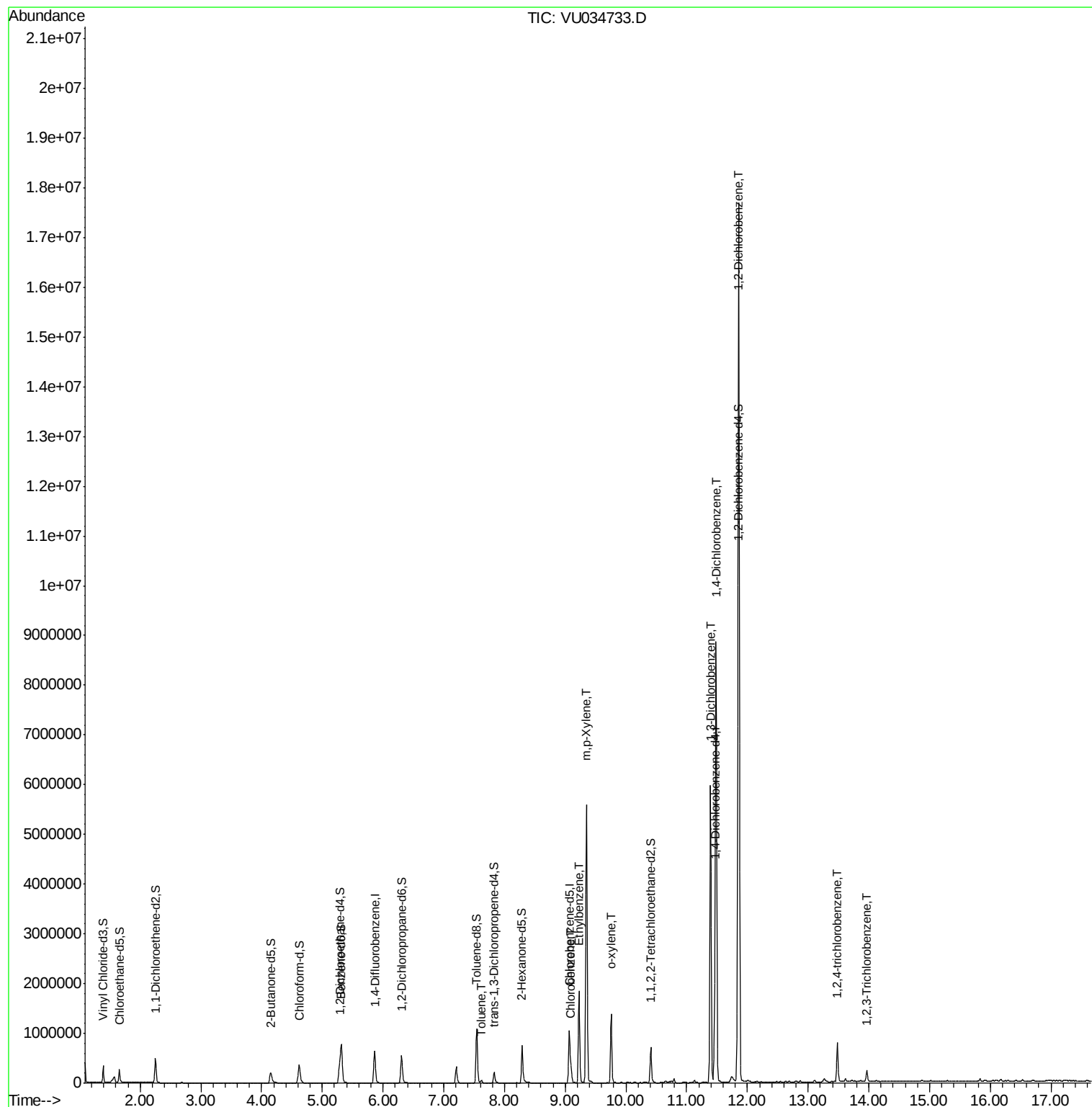
Data Path : Z:\V0ASRV\HPCHEM1\MSVOA U\DATA\VU092319\
Data File : VU034733.D
Acq On : 23 Sep 2019 15:06
Operator : JC/SP
Sample : K4982-04 10X
Misc : 3.99g/5.0mL/100uL/10mL/MSVOA_U/MEOH
ALS Vial : 9 Sample Multiplier: 1

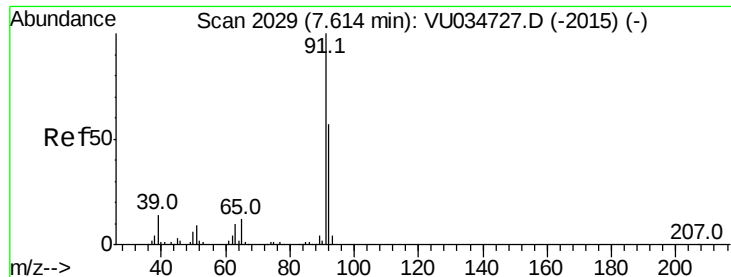
Instrument :
MSVOA_U
ClientSampleId :
C0AT5

Manual Integrations
APPROVED

MMDadoda
9/24/2019 10:45:44 AM

Quant Time: Sep 24 02:24:32 2019
Quant Method : Z:\V0ASRV\HPCHEM1\MSVOA_U\METHOD\SOMULM091919WMA.M
Quant Title : VOC Analysis
QLast Update : Tue Sep 24 01:52:59 2019
Response via : Initial Calibration





#42

Toluene

Concen: 2.015 ug/L

RT: 7.62 min Scan# 2030

Delta R.T. 0.00 min

Lab File: VU034733.D

Acq: 23 Sep 2019 15:06

Instrument :

MSVOA_U

ClientSampleId :

C0AT5

Tot Ion: 91 Resp: 36750

Ion Ratio Lower Upper

91 100

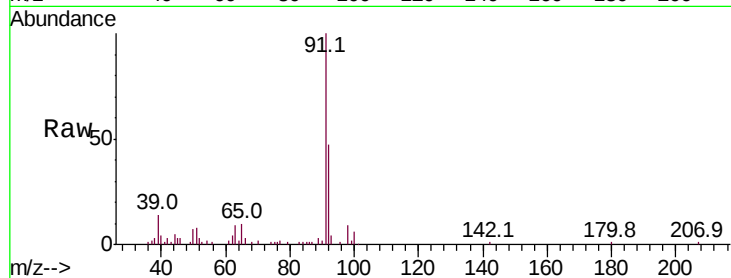
92 46.8 38.2 71.0

Manual Integrations

APPROVED

MMDadoda

9/24/2019 10:45:44 AM



Abundance Ion 91.00 (90.70 to 91.70): VU034727.D (-2015) (-)

Ion 92.00 (91.70 to 92.70): VU034727.D (-2015) (-)

7.62

20000

15000

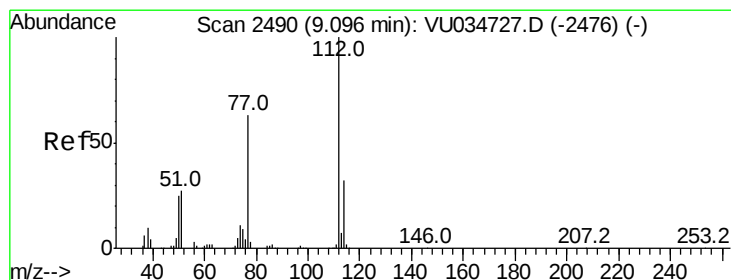
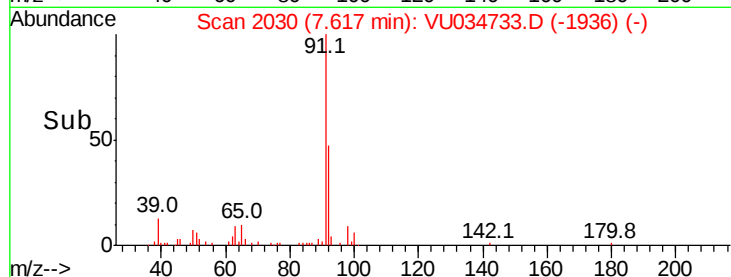
10000

5000

0

7.55 7.60 7.65 7.70

Time-->



#51

Chlorobenzene

Concen: 12.883 ug/L

RT: 9.10 min Scan# 2490

Delta R.T. 0.00 min

Lab File: VU034733.D

Acq: 23 Sep 2019 15:06

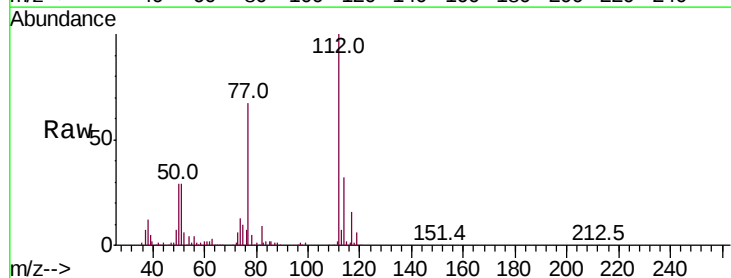
Tgt Ion: 112 Resp: 142814

Ion Ratio Lower Upper

112 100

114 31.7 22.8 42.4

77 67.0 51.5 77.3



Abundance Ion 112.00 (111.70 to 112.70): VU034727.D (-2476) (-)

Ion 114.00 (113.70 to 114.70): VU034727.D (-2476) (-)

Ion 77.00 (76.70 to 77.70): VU034727.D (-2476) (-)

9.10

100000

80000

60000

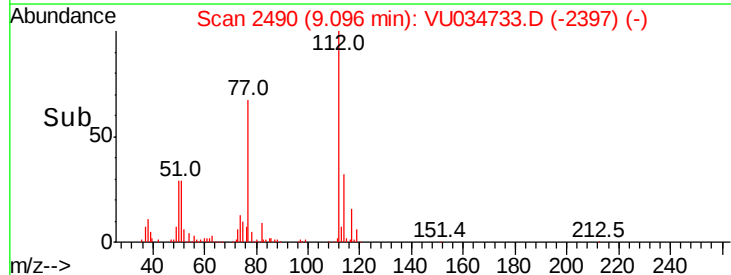
40000

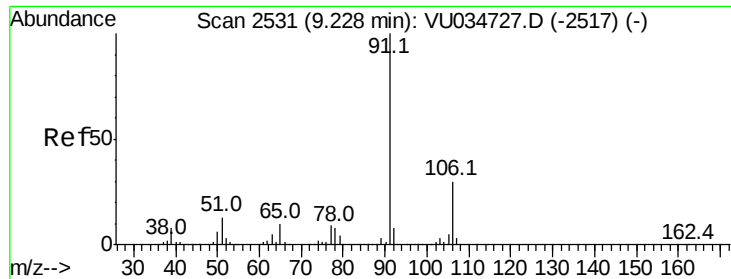
20000

0

9.00 9.05 9.10 9.15 9.20

Time-->





#52

Ethylbenzene

Concen: 59.859 ug/L

RT: 9.23 min Scan# 2531

Delta R.T. 0.00 min

Lab File: VU034733.D

Acq: 23 Sep 2019 15:06

Instrument :

MSVOA_U

ClientSampled :

C0AT5

Tot Ion: 91 Resp: 1229226

Ion Ratio Lower Upper

91 100

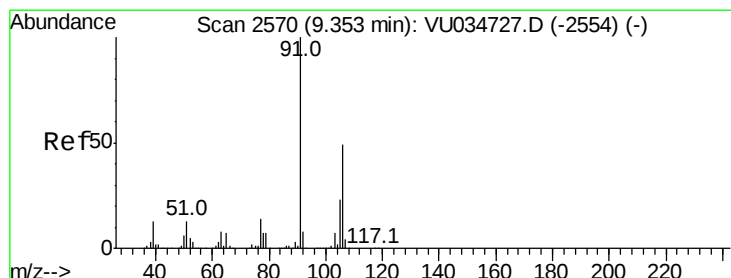
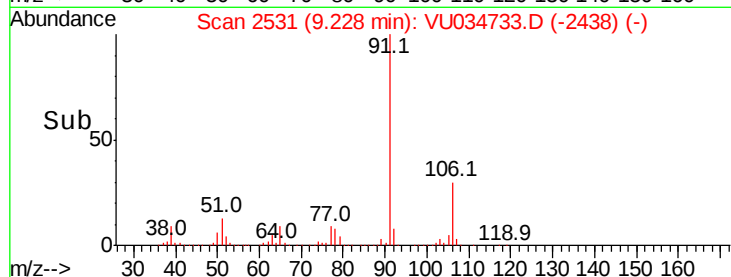
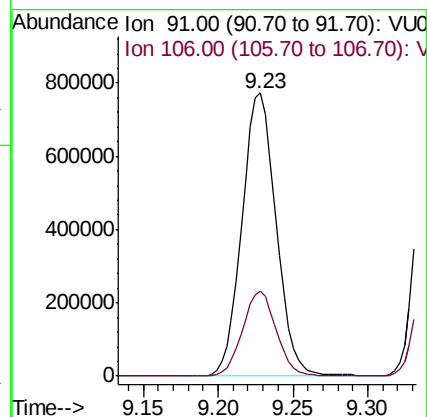
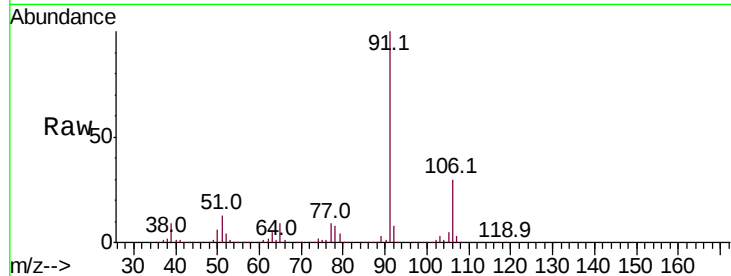
106 29.8 20.6 38.4

Manual Integrations

APPROVED

MMDadoda

9/24/2019 10:45:44 AM



#53

m,p-Xylene

Concen: 193.322 ug/L

RT: 9.35 min Scan# 2569

Delta R.T. -0.00 min

Lab File: VU034733.D

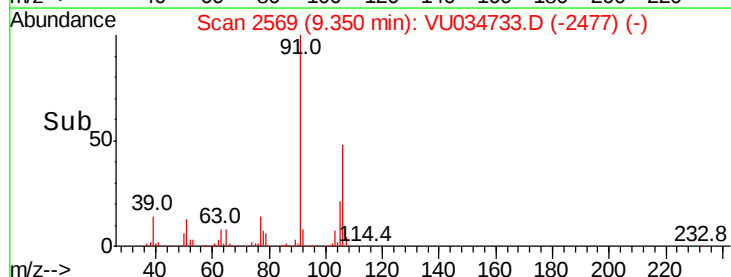
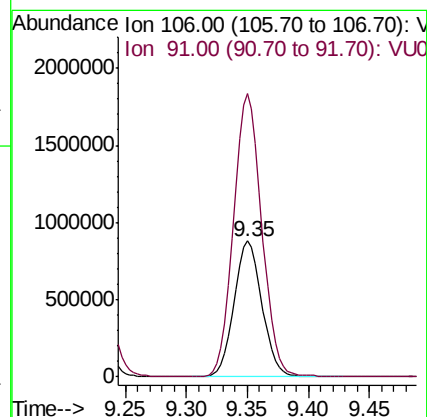
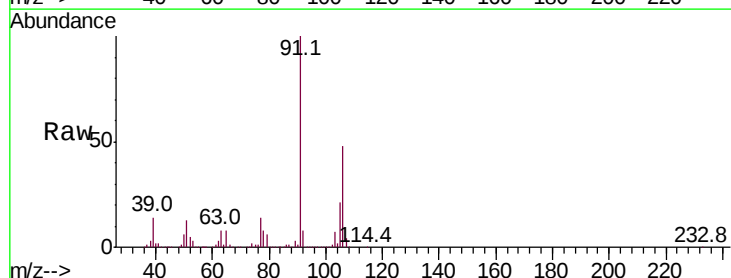
Acq: 23 Sep 2019 15:06

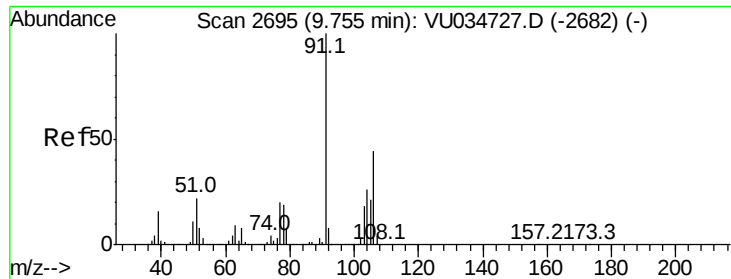
Tgt Ion: 106 Resp: 1406132

Ion Ratio Lower Upper

106 100

91 208.2 146.9 272.7





#54

o-xylene

Concen: 46.442 ug/L

RT: 9.76 min Scan# 2695

Delta R.T. 0.00 min

Lab File: VU034733.D

Acq: 23 Sep 2019 15:06

Instrument :

MSVOA_U

ClientSampled :

C0AT5

Tot Ion:106 Resp: 334111

Ion Ratio Lower Upper

106 100

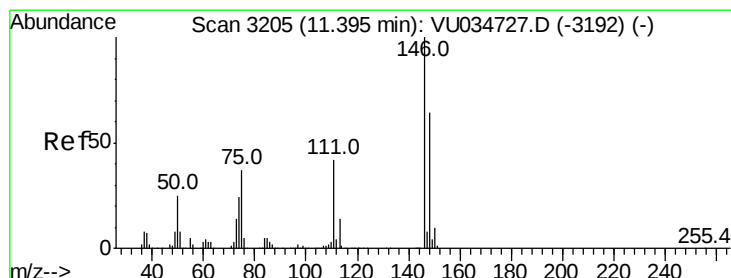
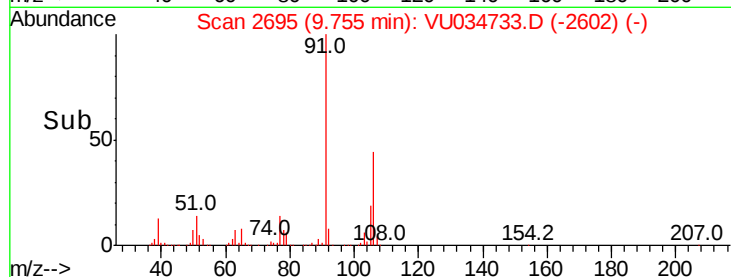
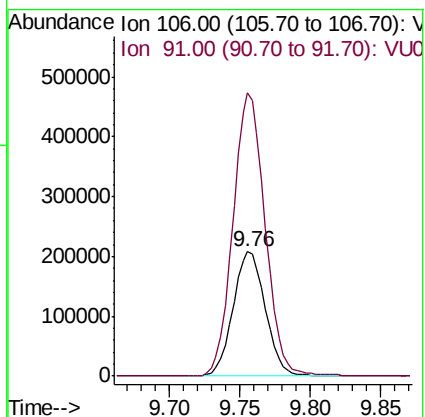
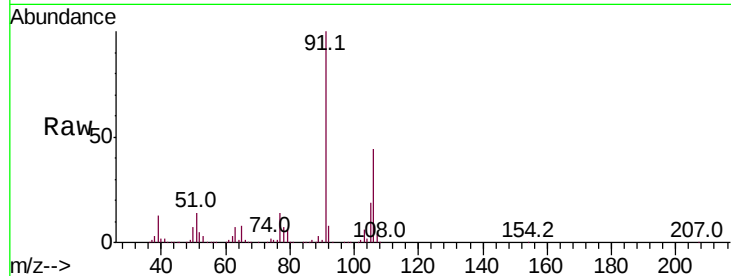
91 227.3 155.6 289.0

Manual Integrations

APPROVED

MMDadoda

9/24/2019 10:45:44 AM



#62

1,3-Dichlorobenzene

Concen: 235.246 ug/L

RT: 11.40 min Scan# 3205

Delta R.T. 0.00 min

Lab File: VU034733.D

Acq: 23 Sep 2019 15:06

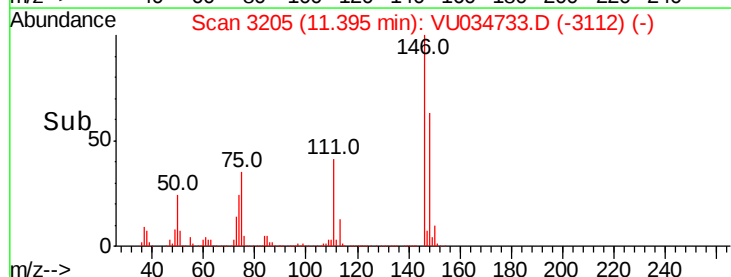
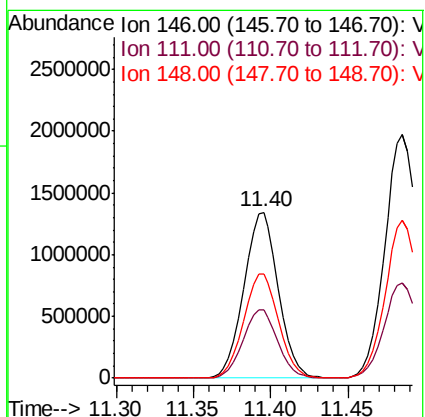
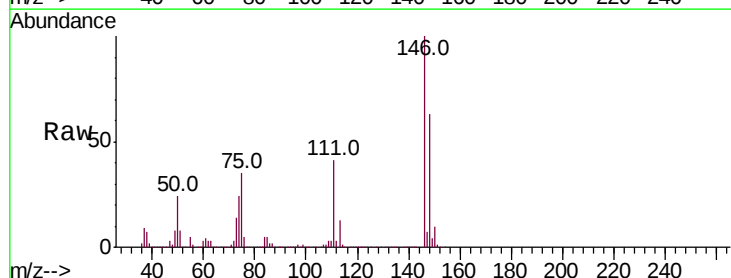
Tgt Ion:146 Resp: 2079329

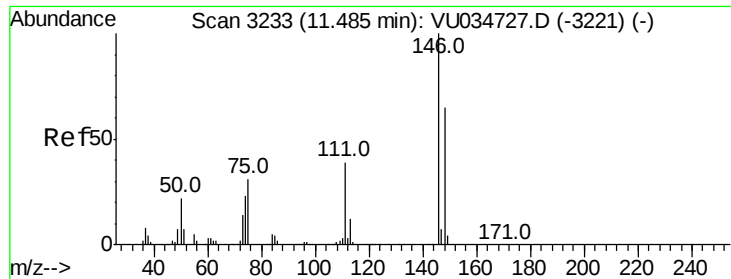
Ion Ratio Lower Upper

146 100

111 40.8 30.4 56.5

148 62.9 46.1 85.7





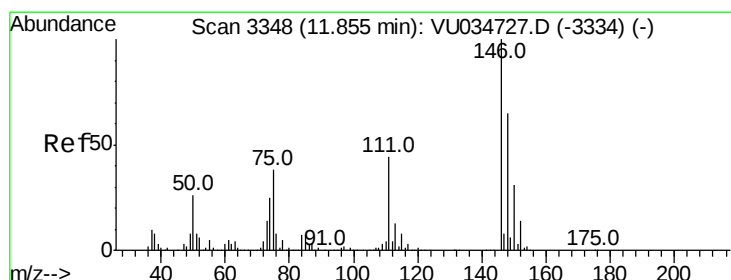
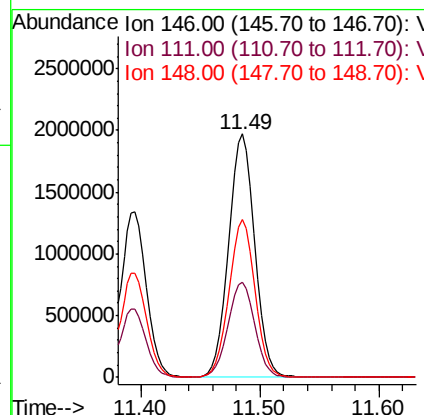
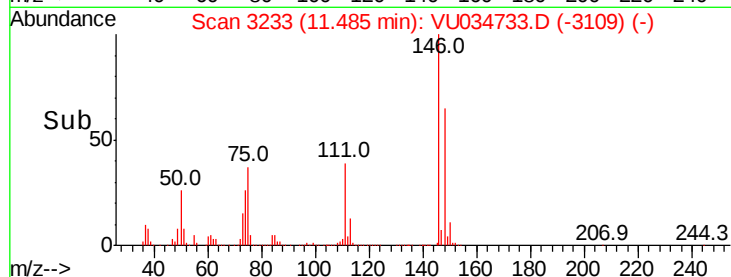
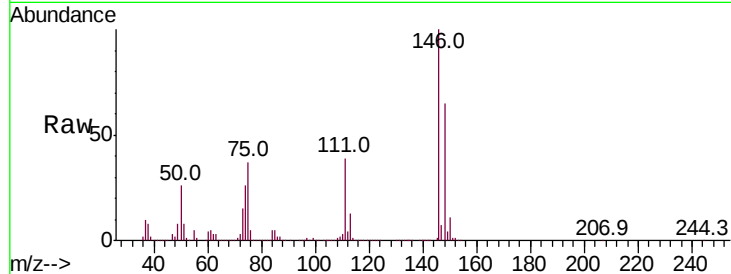
#63
1,4-Dichlorobenzene
Concen: 332.738 ug/L
RT: 11.49 min Scan# 3233
Delta R.T. 0.00 min
Lab File: VU034733.D
Acq: 23 Sep 2019 15:06

Instrument :
MSVOA_U
ClientSampled :
C0AT5

Tot Ion:146 Resp: 2995994
Ion Ratio Lower Upper
146 100
111 39.2 29.5 54.9
148 64.8 44.4 82.4

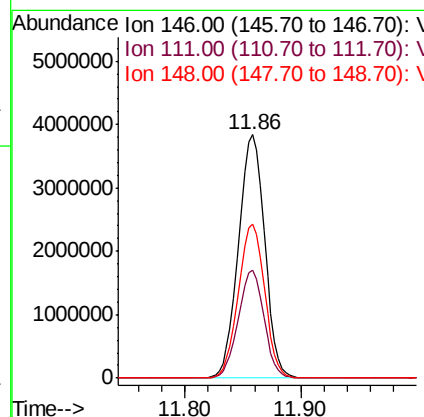
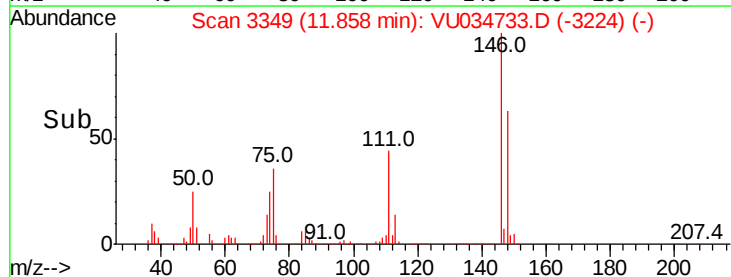
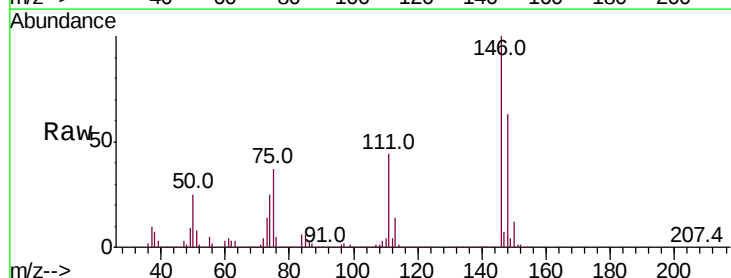
Manual Integrations
APPROVED

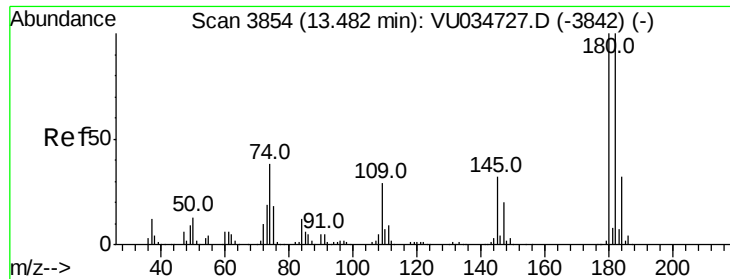
MMDadoda
9/24/2019 10:45:44 AM



#65
1,2-Dichlorobenzene
Concen: 670.887 ug/L
RT: 11.86 min Scan# 3349
Delta R.T. 0.00 min
Lab File: VU034733.D
Acq: 23 Sep 2019 15:06

Tgt Ion:146 Resp: 5991638
Ion Ratio Lower Upper
146 100
111 44.1 35.2 52.8
148 63.5 53.0 79.6





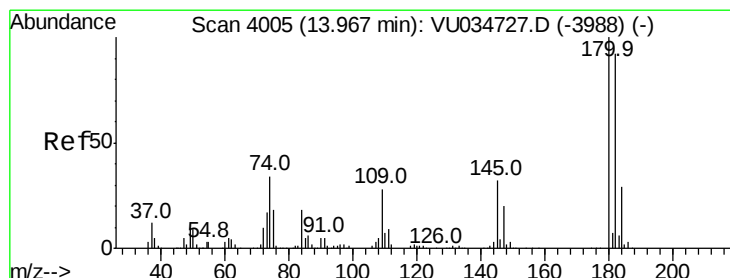
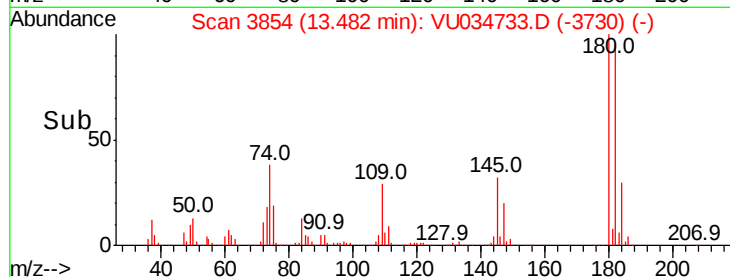
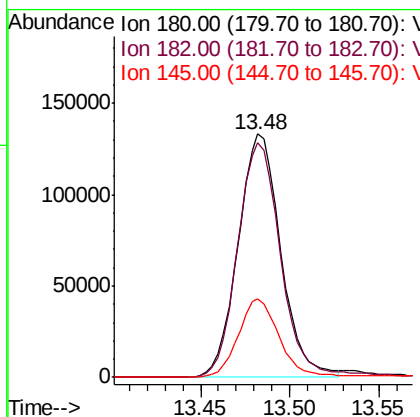
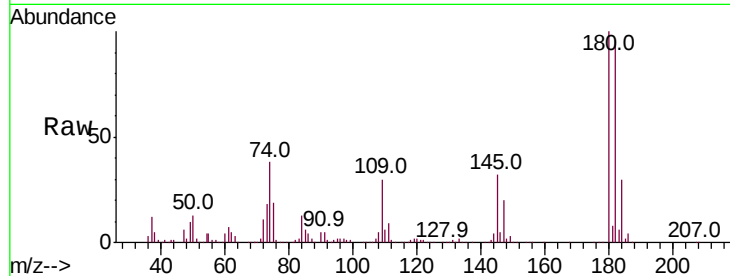
#68
 1,2,4-trichlorobenzene
 Concen: 47.622 ug/L
 RT: 13.48 min Scan# 3854
 Delta R.T. 0.00 min
 Lab File: VU034733.D
 Acq: 23 Sep 2019 15:06

Instrument :
 MSVOA_U
 ClientSampleId :
 C0AT5

Tot Ion	Ratio	Resp	Lower	Upper
180	100	221782		
182	96.3	75.7	113.5	
145	30.7	25.2	37.8	

Manual Integrations
 APPROVED

MMDadoda
 9/24/2019 10:45:44 AM



#70
 1,2,3-Trichlorobenzene
 Concen: 14.506 ug/L
 RT: 13.97 min Scan# 4005
 Delta R.T. 0.00 min
 Lab File: VU034733.D
 Acq: 23 Sep 2019 15:06

Tgt Ion	Ratio	Resp	Lower	Upper
180	100	69513		
182	95.0	79.2	118.8	
145	31.7	26.0	39.0	

