

Data Path : Z:\VOASRV\HPCHEM1\MSVOA U\DATA\VU071819\
 Data File : VU033321.D
 Acq On : 18 Jul 2019 16:01
 Operator : JC/SP
 Sample : K3828-02MS
 Misc : 5.0mL/MSVOA U/WATER
 ALS Vial : 20 Sample Multiplier: 1

Instrument :
 MSVOA_U
 ClientSampleId :
 GAMR0MS

Manual Integrations
 APPROVED

MMDadoda
 7/19/2019 10:56:56 AM

Quant Time: Jul 19 04:28:00 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_U\METHOD\SOMULM071219WMA.M
 Quant Title : VOC Analysis
 QLast Update : Fri Jul 19 01:43:14 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Difluorobenzene	5.86	114	385686	50.00	ug/L	0.00
28) Chlorobenzene-d5	9.07	117	376395	50.00	ug/L	0.00
60) 1,4-Dichlorobenzene-d4	11.47	152	192593	50.00	ug/L	0.00

System Monitoring Compounds

4) Vinyl Chloride-d3	1.39	65	156456	53.59	ug/L	0.00
Spiked Amount	50.000	Range	60 - 135	Recovery	=	107.18%
7) Chloroethane-d5	1.67	69	131540	52.74	ug/L	0.00
Spiked Amount	50.000	Range	70 - 130	Recovery	=	105.48%
11) 1,1-Dichloroethene-d2	2.26	63	268397	50.68	ug/L	0.00
Spiked Amount	50.000	Range	60 - 125	Recovery	=	101.36%
21) 2-Butanone-d5	4.15	46	212148	114.68	ug/L	0.00
Spiked Amount	100.000	Range	40 - 130	Recovery	=	114.68%
24) Chloroform-d	4.62	84	243622	49.79	ug/L	0.00
Spiked Amount	50.000	Range	70 - 125	Recovery	=	99.58%
26) 1,2-Dichloroethane-d4	5.29	65	159870	50.94	ug/L	0.00
Spiked Amount	50.000	Range	70 - 125	Recovery	=	101.88%
32) Benzene-d6	5.32	84	521857	56.52	ug/L	0.00
Spiked Amount	50.000	Range	70 - 125	Recovery	=	113.04%
36) 1,2-Dichloropropane-d6	6.31	67	164478	55.61	ug/L	0.00
Spiked Amount	50.000	Range	70 - 120	Recovery	=	111.22%
41) Toluene-d8	7.55	98	491862	56.49	ug/L	0.00
Spiked Amount	50.000	Range	80 - 120	Recovery	=	112.98%
43) trans-1,3-Dichloropropene-	7.83	79	81254	56.02	ug/L	0.00
Spiked Amount	50.000	Range	60 - 125	Recovery	=	112.04%
47) 2-Hexanone-d5	8.29	63	167758	125.81	ug/L	0.00
Spiked Amount	100.000	Range	45 - 130	Recovery	=	125.81%
57) 1,1,2,2-Tetrachloroethane-	10.41	84	236874	52.91	ug/L	0.00
Spiked Amount	50.000	Range	65 - 120	Recovery	=	105.82%
64) 1,2-Dichlorobenzene-d4	11.85	152	196685	57.27	ug/L	0.00
Spiked Amount	50.000	Range	80 - 120	Recovery	=	114.54%

Target Compounds

Target Compounds	R.T.	QIon	Response	Conc	Units	Ovalue
12) 1,1-Dichloroethene	2.27	96	116333	45.190	ug/L	96
13) Acetone	2.31	43	27368	11.841	ug/L	98
16) Methylene chloride	2.69	84	3045	1.036	ug/L #	68
22) 2-Butanone	4.26	43	6874m	2.677	ug/L	
29) Cyclohexane	4.97	56	64558	15.740	ug/L	95
33) Benzene	5.37	78	525060	47.834	ug/L	100
34) Trichloroethene	6.16	95	134934	47.004	ug/L	98
35) Methylcyclohexane	6.39	83	96823	22.018	ug/L	92
42) Toluene	7.62	91	581290	49.120	ug/L	99
51) Chlorobenzene	9.10	112	371843	48.140	ug/L	99
52) Ethylbenzene	9.23	91	198813	15.700	ug/L	99
53) m,p-Xylene	9.36	106	119334	24.880	ug/L	99
56) Isopropylbenzene	10.15	105	72410	5.908	ug/L	98

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

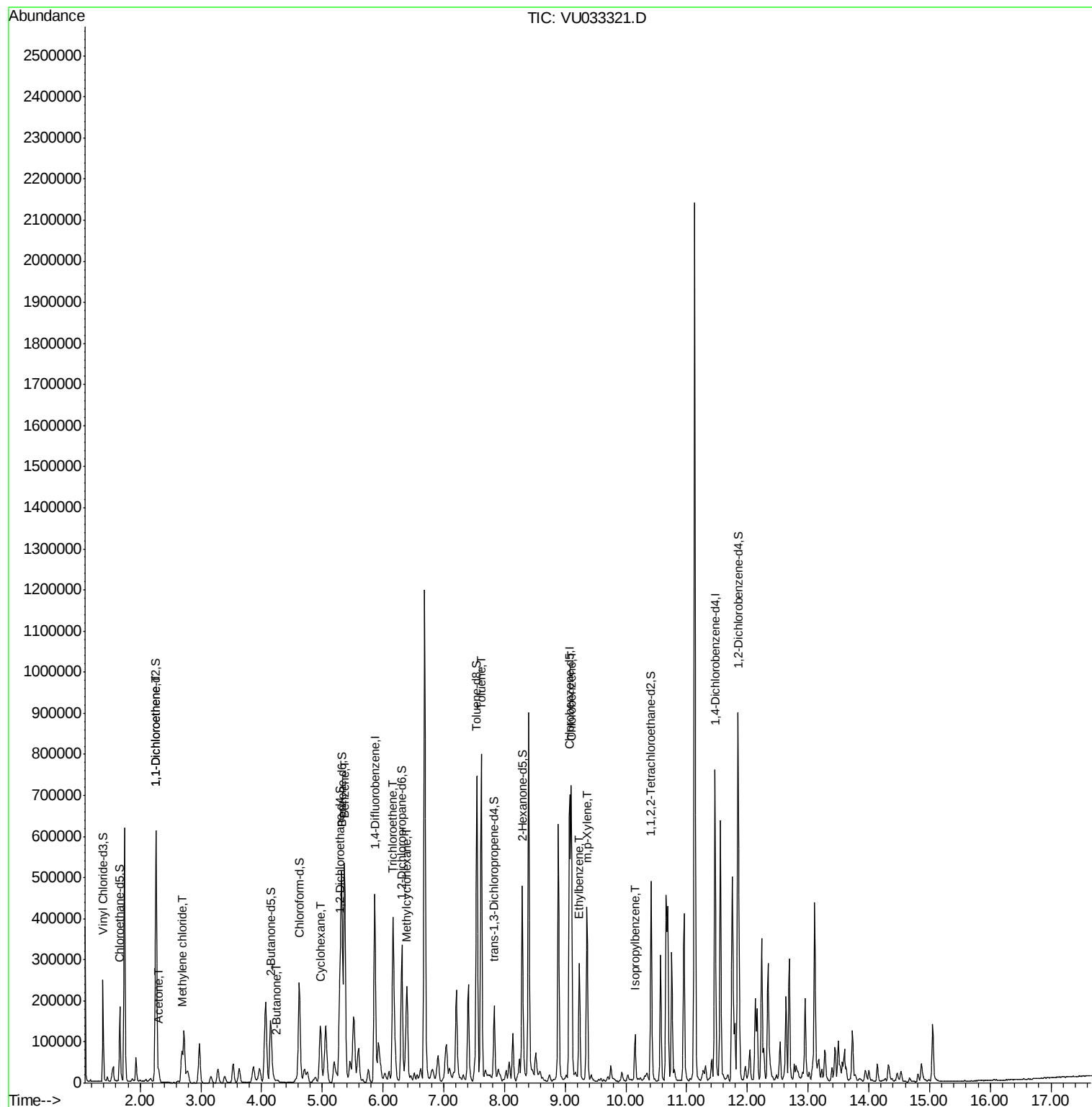
Data Path : Z:\V0ASRV\HPCHEM1\MSVOA U\DATA\VU071819\
Data File : VU033321.D
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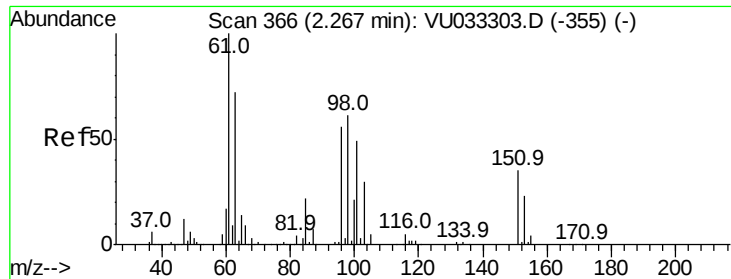
Instrument :
MSVOA_U
ClientSampleId :
GAMR0MS

Manual Integrations
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Quant Time: Jul 19 04:28:00 2019
Quant Method : Z:\V0ASRV\HPCHEM1\MSVOA_U\METHOD\SOMULM071219WMA.M
Quant Title : VOC Analysis
QLast Update : Fri Jul 19 01:43:14 2019
Response via : Initial Calibration





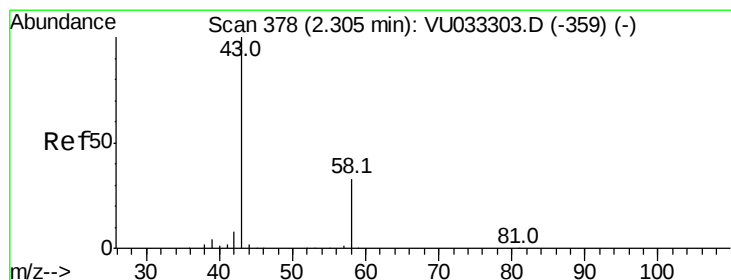
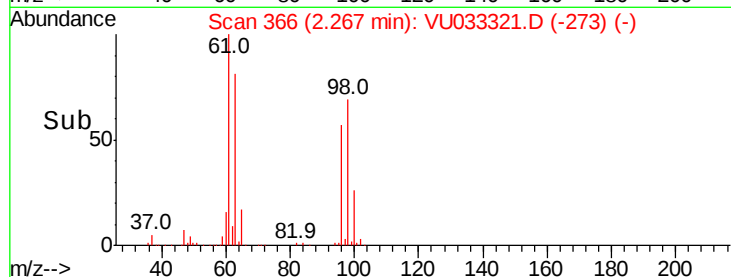
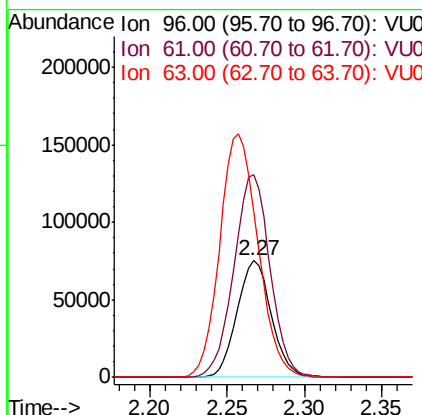
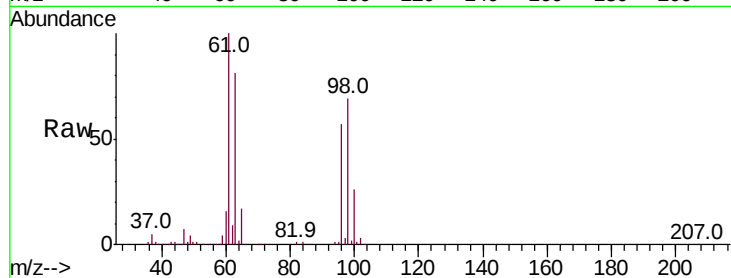
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 1,1-Dichloroethene
 Concen: 45.190 ug/L
 RT: 2.27 min Scan# 366
 Delta R.T. 0.00 min
 Lab File: VU033321.D
 Acq: 18 Jul 2019 16:01

Instrument :
 MSVOA_U
 ClientSampleId :
 GAMR0MS

Tot Ion	Ratio	Lower	Upper
96	100		
61	174.3	126.1	234.1
63	141.8	96.8	179.8

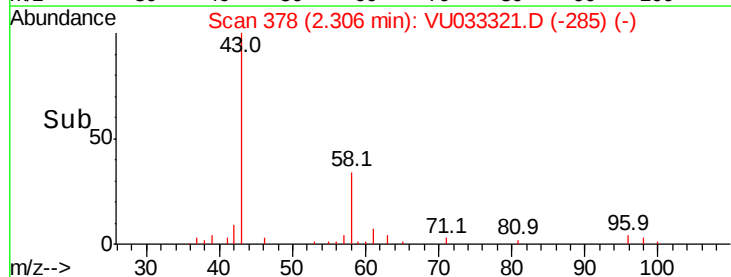
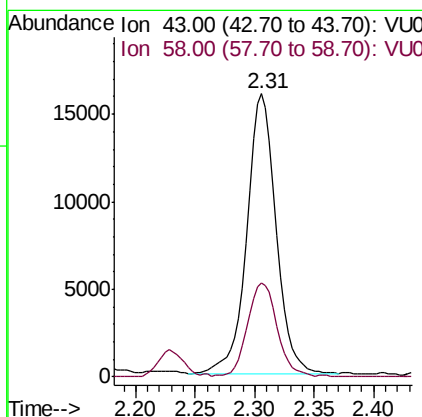
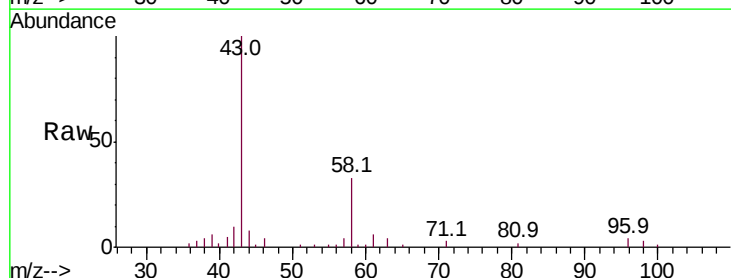
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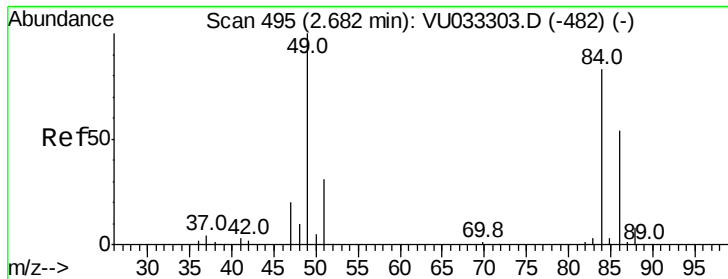
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#13
 Acetone
 Concen: 11.841 ug/L
 RT: 2.31 min Scan# 378
 Delta R.T. 0.00 min
 Lab File: VU033321.D
 Acq: 18 Jul 2019 16:01

Tgt Ion	Ratio	Lower	Upper
43	100		
58	33.8	0.0	65.4





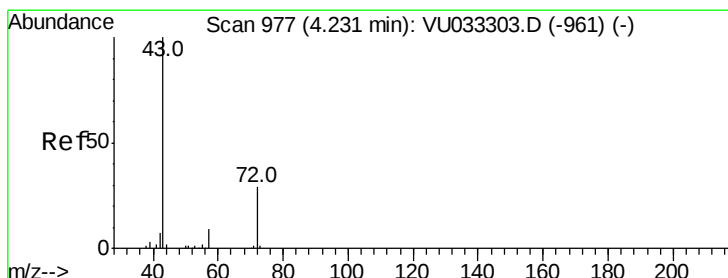
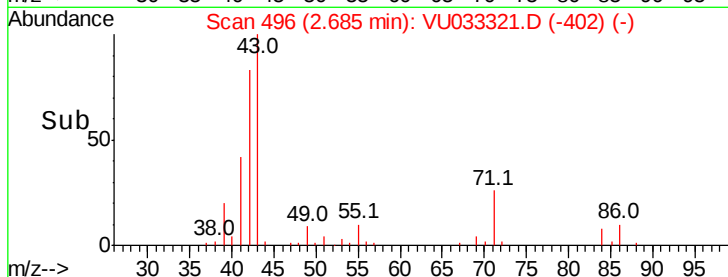
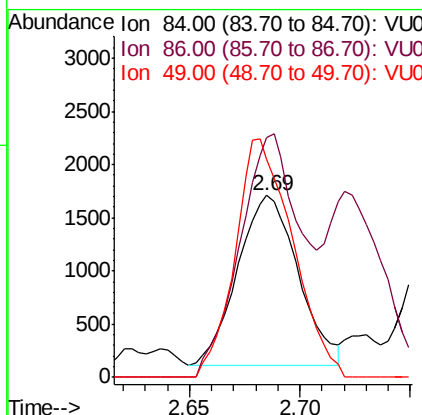
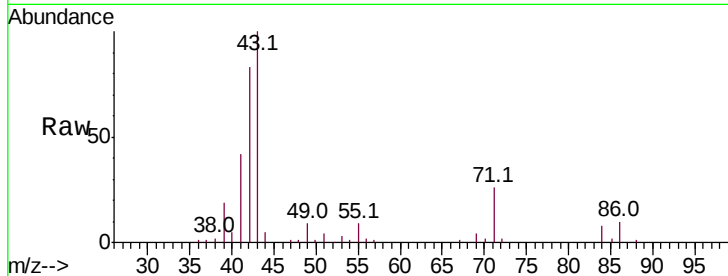
#16
Methvlene chloride
Concen: 1.036 ug/L
RT: 2.69 min Scan# 496
Delta R.T. 0.00 min
Lab File: VU033321.D
Acq: 18 Jul 2019 16:01

Instrument :
MSVOA_U
ClientSampleId :
GAMR0MS

Tot Ion	Ratio	Lower	Upper
84	100		
86	132.2	45.7	84.9#
49	120.0	87.7	162.9

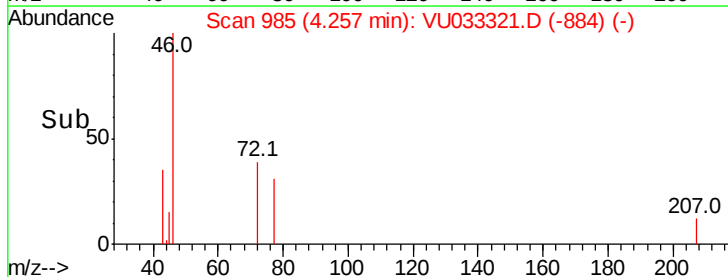
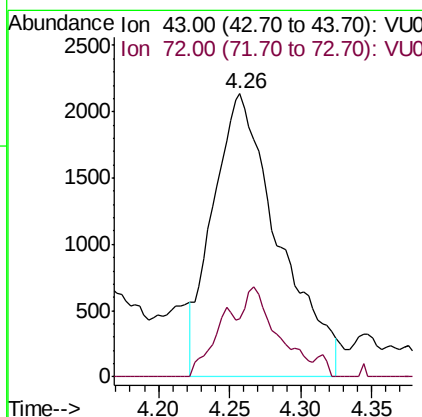
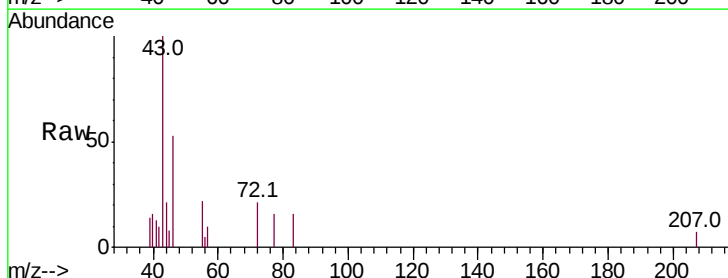
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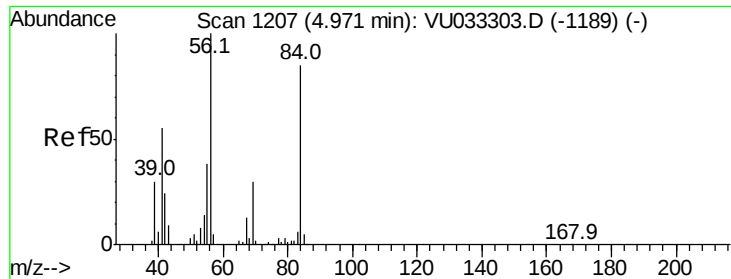
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#22
2-Butanone
Concen: 2.677 ug/L m
RT: 4.26 min Scan# 985
Delta R.T. 0.03 min
Lab File: VU033321.D
Acq: 18 Jul 2019 16:01

Tgt Ion	Ratio	Lower	Upper
43	100		
72	9.6	14.4	43.2#





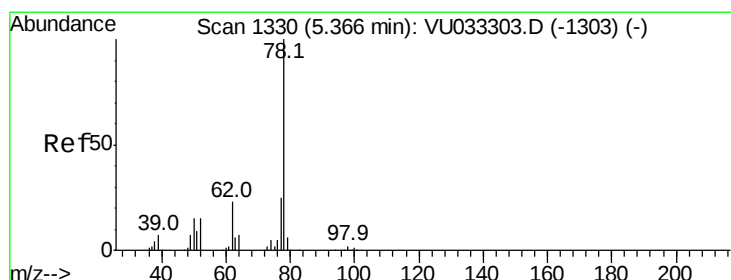
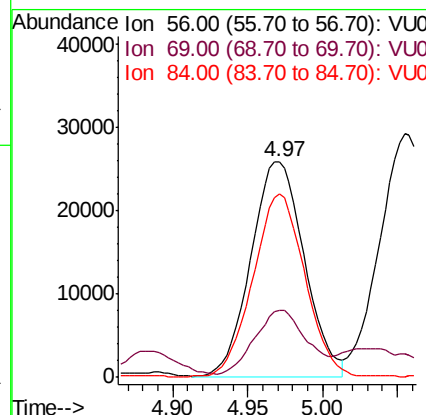
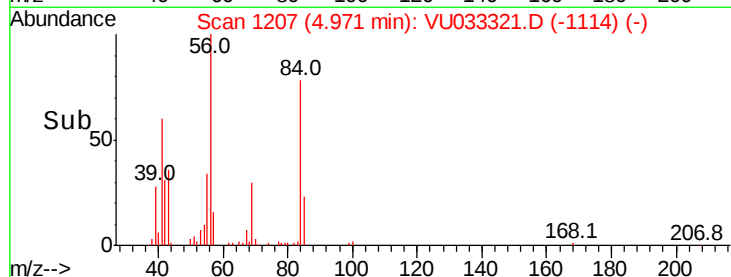
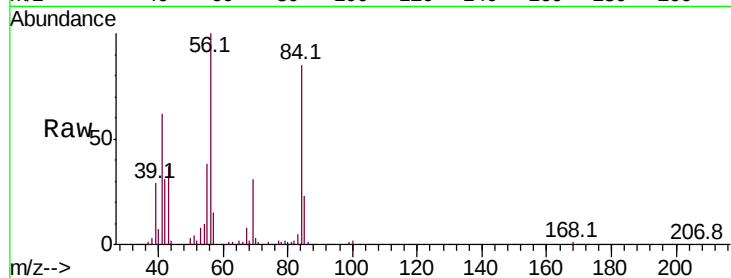
#29
Cyclohexane
Concen: 15.740 ug/L
RT: 4.97 min Scan# 1207
Delta R.T. 0.00 min
Lab File: VU033321.D
Acq: 18 Jul 2019 16:01

Instrument :
MSVOA_U
ClientSampleId :
GAMR0MS

Tot Ion	Ion	Ratio	Lower	Upper
56	100			
69	27.8	24.7	37.1	
84	82.9	70.2	105.2	

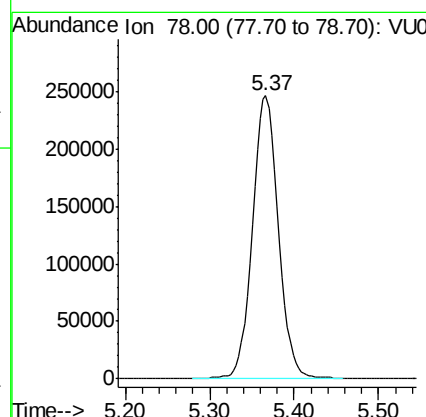
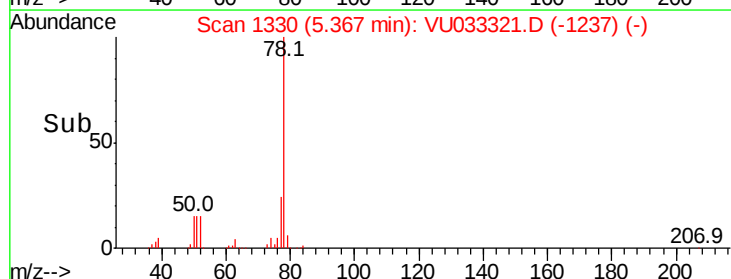
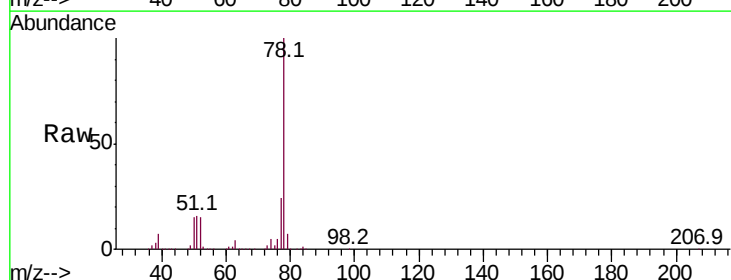
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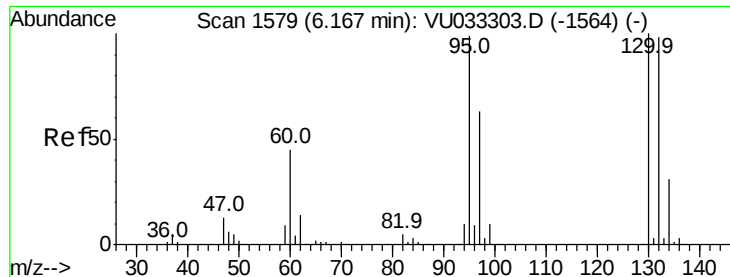
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#33
Benzene
Concen: 47.834 ug/L
RT: 5.37 min Scan# 1330
Delta R.T. 0.00 min
Lab File: VU033321.D
Acq: 18 Jul 2019 16:01

Tgt Ion: 78 Resp: 525060





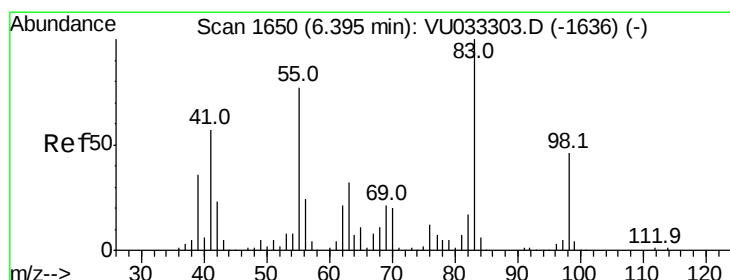
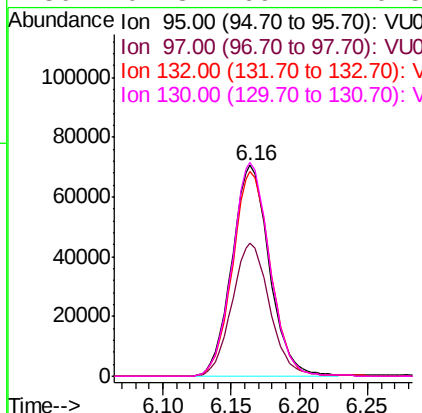
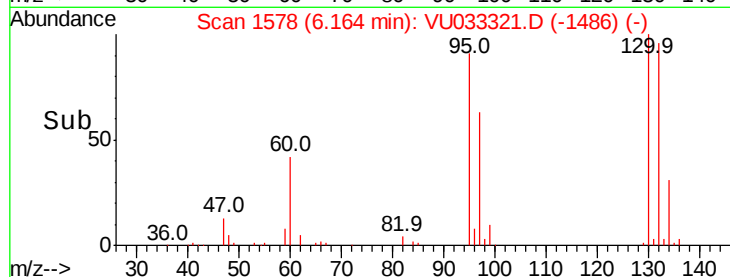
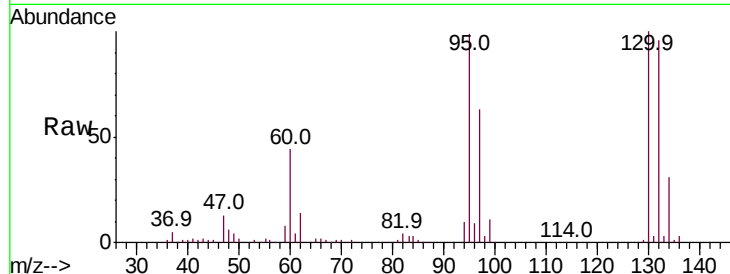
#34
 Trichloroethene
 Concen: 47.004 ug/L
 RT: 6.16 min Scan# 1578
 Delta R.T. -0.00 min
 Lab File: VU033321.D
 Acq: 18 Jul 2019 16:01

Instrument :
 MSVOA_U
 ClientSampleID :
 GAMR0MS

Tot Ion	95	Resp	134934
Ion Ratio	Lower	Upper	
95	100		
97	63.4	43.8	81.4
132	97.2	65.5	121.6
130	101.3	69.7	129.5

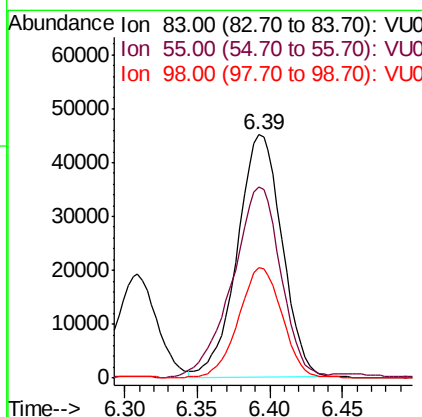
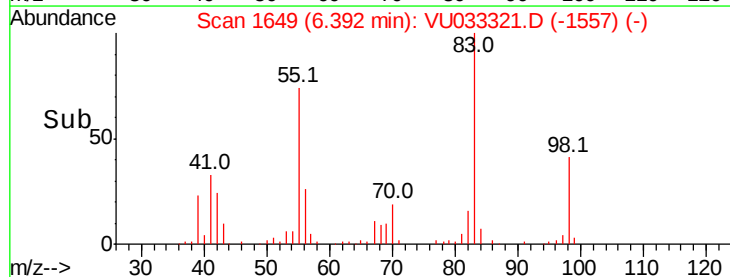
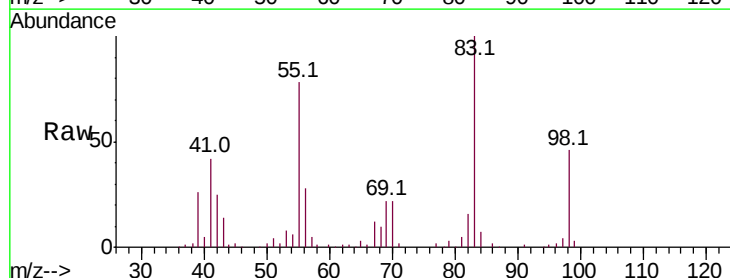
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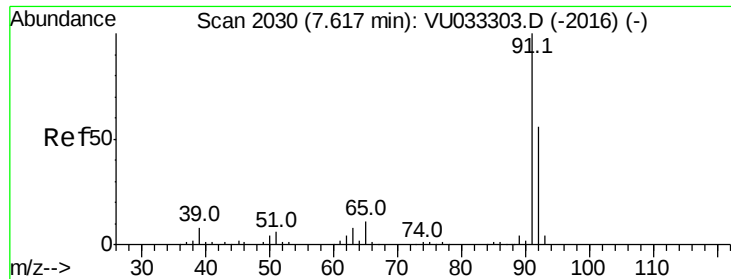
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#35
 Methylcyclohexane
 Concen: 22.018 ug/L
 RT: 6.39 min Scan# 1649
 Delta R.T. -0.00 min
 Lab File: VU033321.D
 Acq: 18 Jul 2019 16:01

Tgt Ion	83	Resp	96823
Ion Ratio	Lower	Upper	
83	100		
55	84.6	60.5	90.7
98	44.6	37.4	56.0





#42

Toluene

Concen: 49.120 ug/L

RT: 7.62 min Scan# 2030

Delta R.T. 0.00 min

Lab File: VU033321.D

Acq: 18 Jul 2019 16:01

Instrument :

MSVOA_U

ClientSampleId :

GAMR0MS

Tot Ion: 91 Resp: 581290

Ion Ratio Lower Upper

91 100

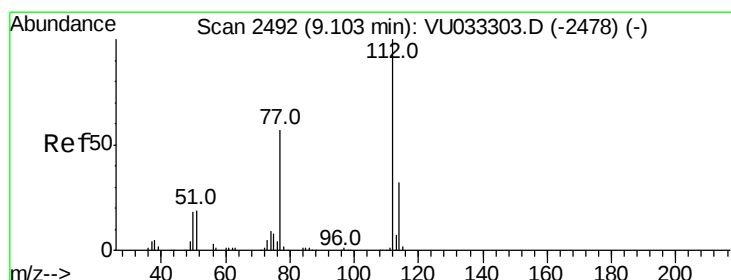
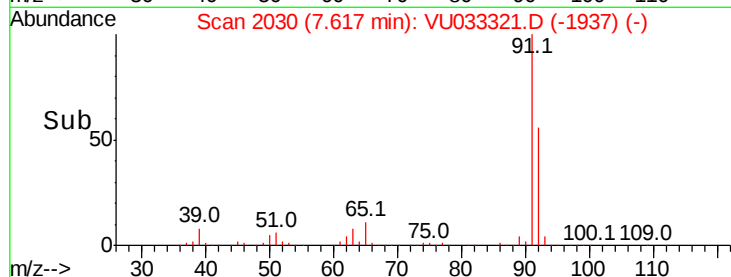
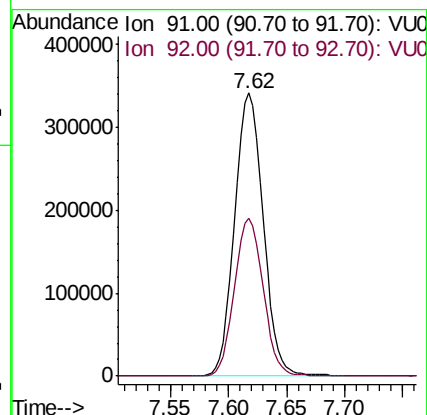
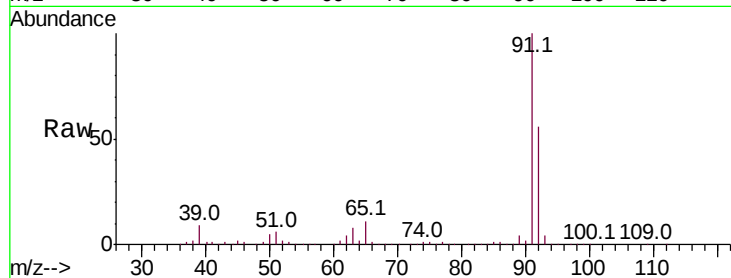
92 55.9 39.8 74.0

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#51

Chlorobenzene

Concen: 48.140 ug/L

RT: 9.10 min Scan# 2491

Delta R.T. -0.00 min

Lab File: VU033321.D

Acq: 18 Jul 2019 16:01

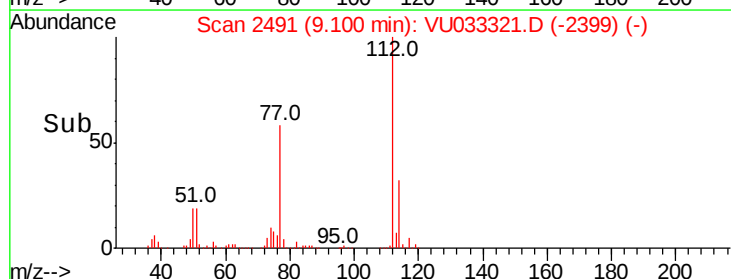
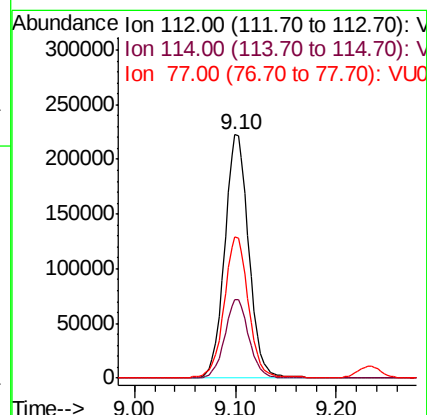
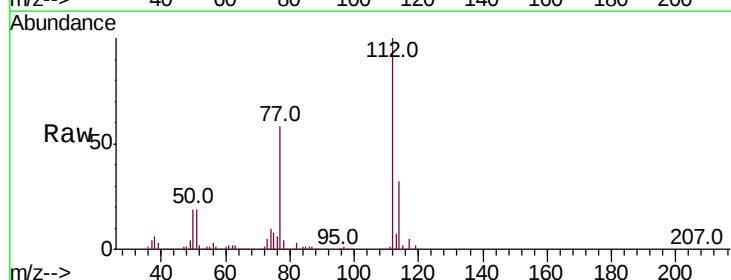
Tgt Ion: 112 Resp: 371843

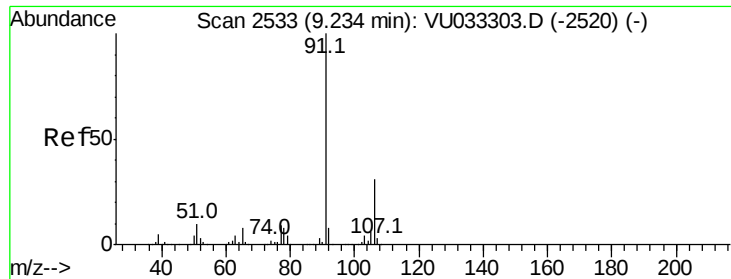
Ion Ratio Lower Upper

112 100

114 32.4 22.3 41.3

77 57.9 47.2 70.8





#52

Ethylbenzene

Concen: 15.700 ug/L

RT: 9.23 min Scan# 2532

Delta R.T. -0.00 min

Lab File: VU033321.D

Acq: 18 Jul 2019 16:01

Instrument :

MSVOA_U

ClientSampleId :

GAMR0MS

Tot Ion: 91 Resp: 198813

Ion Ratio Lower Upper

91 100

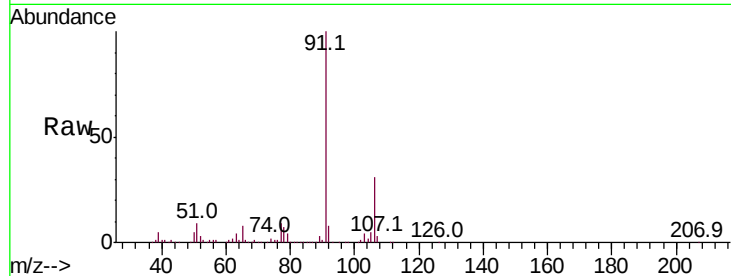
106 31.3 22.2 41.2

Manual Integrations

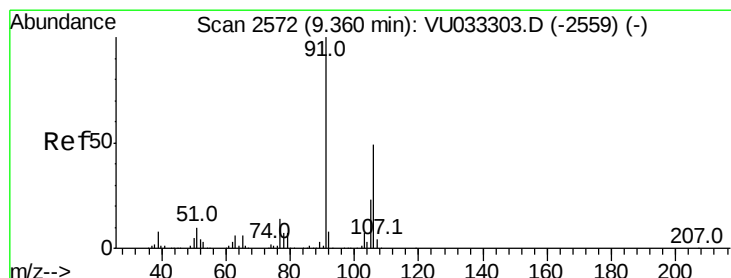
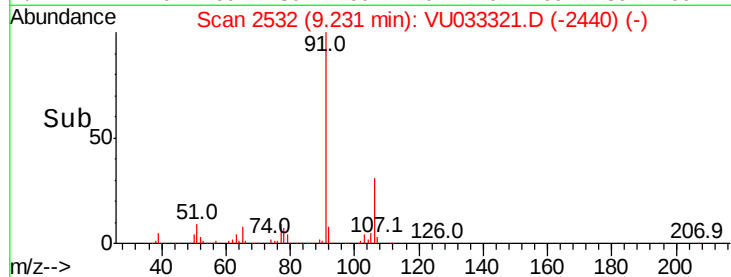
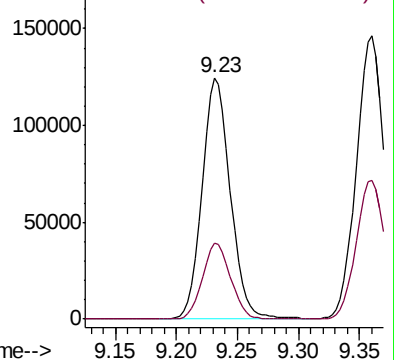
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Abundance Ion 91.00 (90.70 to 91.70): VU033321.D (-2440) (-)



#53

m,p-Xylene

Concen: 24.880 ug/L

RT: 9.36 min Scan# 2572

Delta R.T. 0.00 min

Lab File: VU033321.D

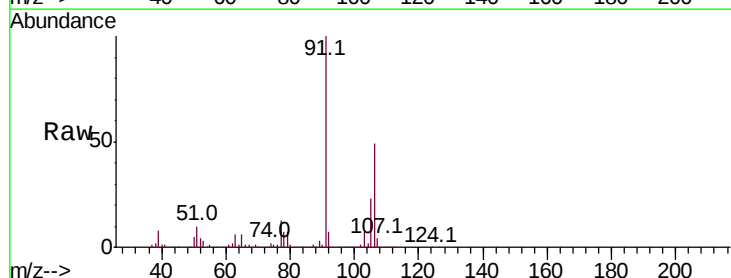
Acq: 18 Jul 2019 16:01

Tgt Ion: 106 Resp: 119334

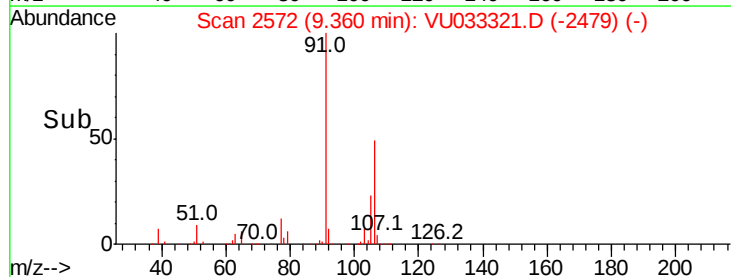
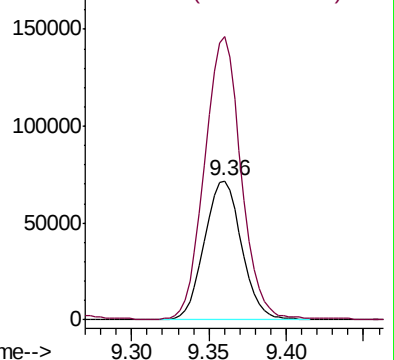
Ion Ratio Lower Upper

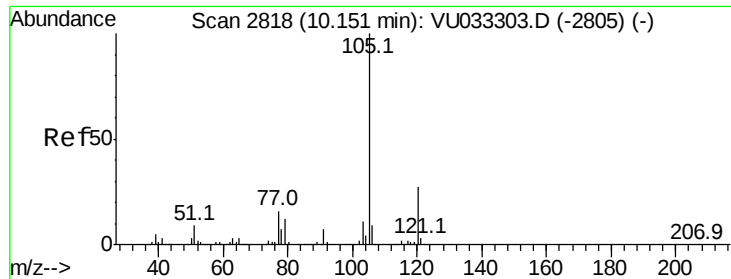
106 100

91 203.3 141.3 262.3



Abundance Ion 106.00 (105.70 to 106.70): VU033321.D (-2479) (-)





#56
Isopropylbenzene
Concen: 5.908 ug/L
RT: 10.15 min Scan# 2818
Delta R.T. 0.00 min
Lab File: VU033321.D
Acq: 18 Jul 2019 16:01

Instrument :
MSVOA_U
ClientSampleId :
GAMR0MS

Tot Ion	Ratio	Lower	Upper
105	100		
120	25.9	21.2	31.8
77	15.0	12.9	19.3

Manual Integrations
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