

Data Path : Z:\VOASRV\HPCHEM1\MSVOA U\DATA\VU092519\
 Data File : VU034814.D
 Acq On : 25 Sep 2019 19:57
 Operator : JC/SP
 Sample : K4983-03
 Misc : 5.0mL/MSVOA U/WATER
 ALS Vial : 25 Sample Multiplier: 1

Instrument :
 MSVOA_U
 ClientSampleId :
 BPDF4

Manual Integrations
 APPROVED

MMDadoda
 9/26/2019 1:06:28 PM

Quant Time: Sep 26 09:45:08 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_U\METHOD\SOMULM091919WMA.M
 Quant Title : VOC Analysis
 QLast Update : Thu Sep 26 06:56:48 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Difluorobenzene	5.86	114	425796	50.00	ug/L	0.00
28) Chlorobenzene-d5	9.07	117	411468	50.00	ug/L	0.00
60) 1,4-Dichlorobenzene-d4	11.46	152	191679	50.00	ug/L	0.00

System Monitoring Compounds

4) Vinyl Chloride-d3	1.39	65	197569	45.32	ug/L	0.00
Spiked Amount	50.000	Range	60 - 135	Recovery	=	90.64%
7) Chloroethane-d5	1.67	69	170603	50.64	ug/L	0.00
Spiked Amount	50.000	Range	70 - 130	Recovery	=	101.28%
11) 1,1-Dichloroethene-d2	2.26	63	263741	35.73	ug/L	0.00
Spiked Amount	50.000	Range	60 - 125	Recovery	=	71.46%
21) 2-Butanone-d5	4.15	46	401088	120.06	ug/L	0.00
Spiked Amount	100.000	Range	40 - 130	Recovery	=	120.06%
24) Chloroform-d	4.62	84	322628	50.91	ug/L	0.00
Spiked Amount	50.000	Range	70 - 125	Recovery	=	101.82%
26) 1,2-Dichloroethane-d4	5.29	65	230012	49.37	ug/L	0.00
Spiked Amount	50.000	Range	70 - 125	Recovery	=	98.74%
32) Benzene-d6	5.32	84	702540	55.09	ug/L	0.00
Spiked Amount	50.000	Range	70 - 125	Recovery	=	110.18%
36) 1,2-Dichloropropane-d6	6.31	67	244434	54.83	ug/L	0.00
Spiked Amount	50.000	Range	70 - 120	Recovery	=	109.66%
41) Toluene-d8	7.54	98	665795	54.87	ug/L	0.00
Spiked Amount	50.000	Range	80 - 120	Recovery	=	109.74%
43) trans-1,3-Dichloropropene-	7.83	79	105819	49.56	ug/L	0.00
Spiked Amount	50.000	Range	60 - 125	Recovery	=	99.12%
47) 2-Hexanone-d5	8.29	63	269752	120.49	ug/L	0.00
Spiked Amount	100.000	Range	45 - 130	Recovery	=	120.49%
57) 1,1,2,2-Tetrachloroethane-	10.41	84	320844	51.87	ug/L	0.00
Spiked Amount	50.000	Range	65 - 120	Recovery	=	103.74%
64) 1,2-Dichlorobenzene-d4	11.84	152	236105	58.74	ug/L	0.00
Spiked Amount	50.000	Range	80 - 120	Recovery	=	117.48%

Target Compounds

Target Compounds	R.T.	QIon	Response	Conc	Units	Ovalue
13) Acetone	2.31	43	75422	19.408	ug/L	95
16) Methylene chloride	2.68	84	117654	33.341	ug/L	92
22) 2-Butanone	4.26	43	22551m	4.878	ug/L	
25) Chloroform	4.64	83	9169m	1.333	ug/L	
29) Cyclohexane	4.97	56	6148	0.905	ug/L #	80
33) Benzene	5.37	78	103562	7.257	ug/L	100
34) Trichloroethene	6.17	95	6417	1.821	ug/L	94
35) Methylcyclohexane	6.40	83	6699	1.120	ug/L	97
40) 4-Methyl-2-pentanone	7.44	43	38690	4.769	ug/L	95
42) Toluene	7.61	91	441494	28.626	ug/L	99
46) Tetrachloroethene	8.21	164	2834	1.143	ug/L	97
52) Ethylbenzene	9.23	91	233070	13.420	ug/L	98
53) m,p-Xylene	9.35	106	385226	62.624	ug/L	99
54) o-xylene	9.76	106	295408	48.553	ug/L	95
56) Isopropylbenzene	10.14	105	32823	2.001	ug/L	96
63) 1,4-Dichlorobenzene	11.49	146	6002	0.888	ug/L #	79
65) 1,2-Dichlorobenzene	11.85	146	40324	6.012	ug/L	99

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Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
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(#) = qualifier out of range (m) = manual integration (+) = signals summed

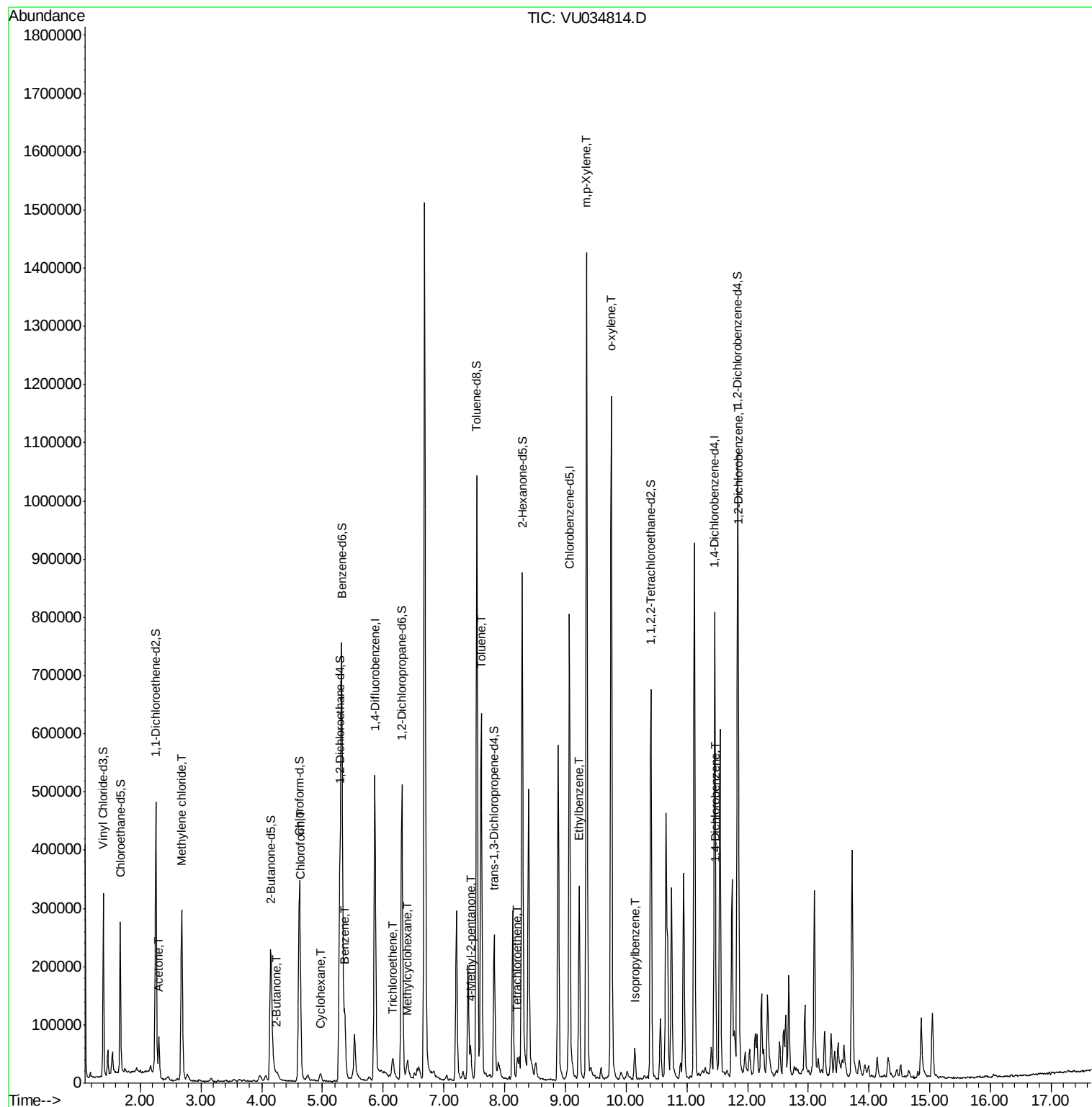
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Data File : VU034814.D
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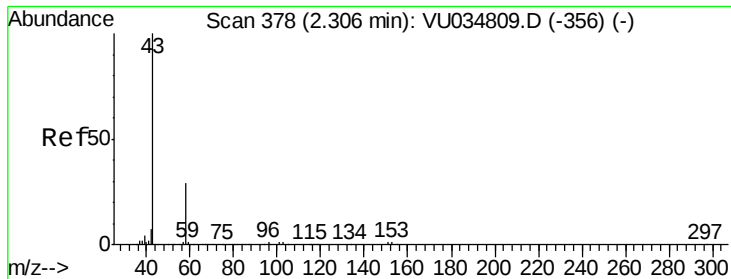
Instrument :
MSVOA_U
ClientSampleId :
BDF4

Manual Integrations
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Quant Method : Z:\V0ASRV\HPCHEM1\MSVOA_U\METHOD\SOMULM091919WMA.M
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QLast Update : Thu Sep 26 06:56:48 2019
Response via : Initial Calibration





#13

Acetone

Concen: 19.408 ug/L

RT: 2.31 min Scan# 378

Delta R.T. -0.00 min

Lab File: VU034814.D

Acq: 25 Sep 2019 19:57

Instrument :

MSVOA_U

ClientSampled :

BPDF4

Tot Ion: 43 Resp: 75422

Ion Ratio Lower Upper

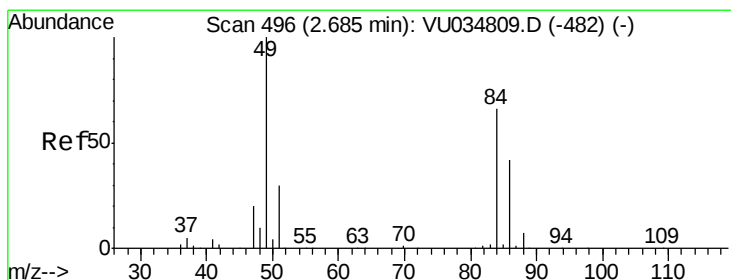
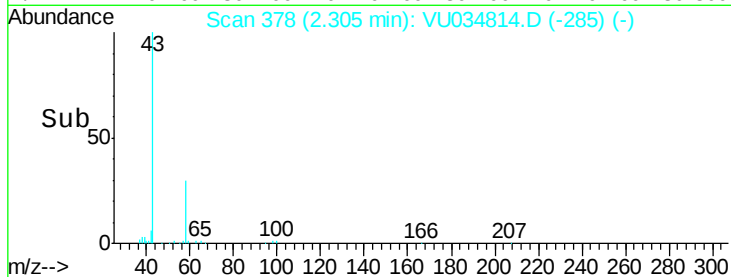
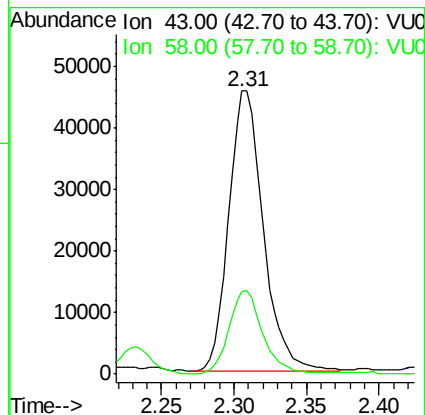
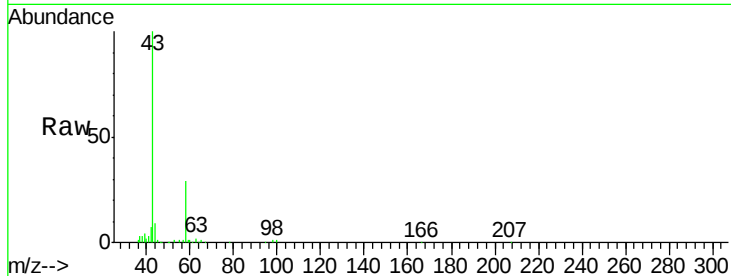
43 100

58 29.0 0.0 53.4

Manual Integrations
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#16

Methylene chloride

Concen: 33.341 ug/L

RT: 2.68 min Scan# 496

Delta R.T. -0.00 min

Lab File: VU034814.D

Acq: 25 Sep 2019 19:57

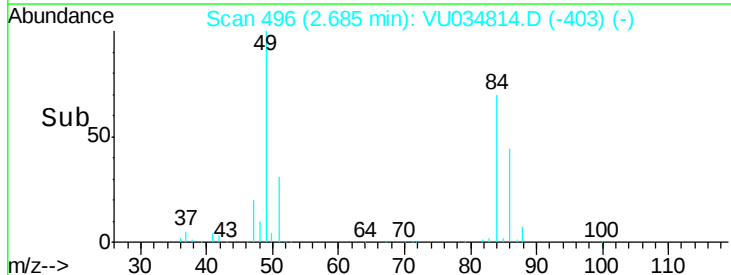
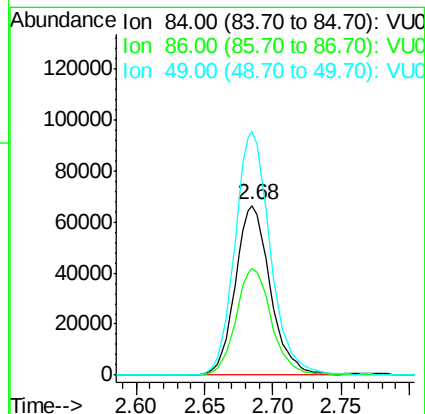
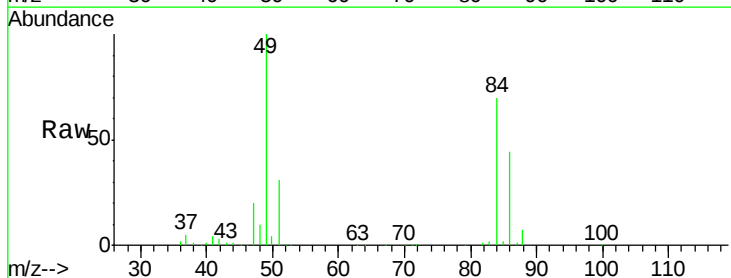
Tgt Ion: 84 Resp: 117654

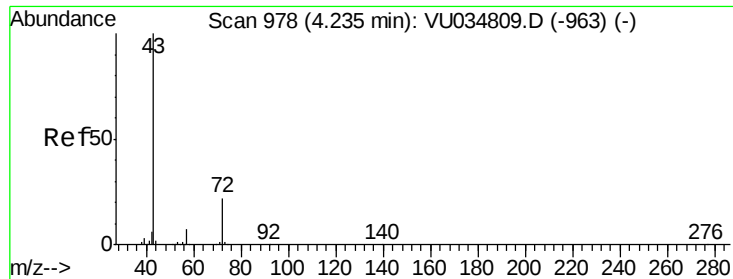
Ion Ratio Lower Upper

84 100

86 62.9 43.0 80.0

49 143.4 109.7 203.7





#22

2-Butanone

Concen: 4.878 ug/L m

RT: 4.26 min Scan# 985

Delta R.T. 0.02 min

Lab File: VU034814.D

Acq: 25 Sep 2019 19:57

Instrument :

MSVOA_U

ClientSampleId :

BPDF4

Tot Ion: 43 Resp: 22551

Ion Ratio Lower Upper

43 100

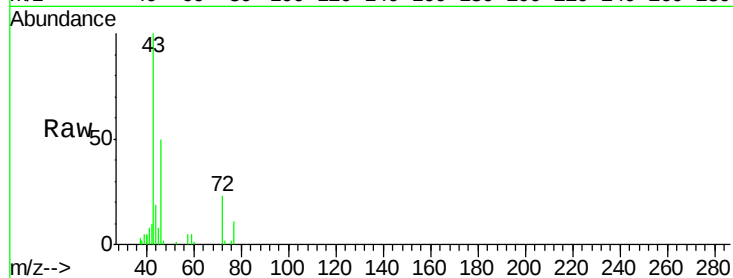
72 9.0 10.2 30.6#

Manual Integrations

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Abundance Ion 43.00 (42.70 to 43.70): VU034809.D (-963) (-)

Ion 72.00 (71.70 to 72.70): VU034809.D (-963) (-)

8000

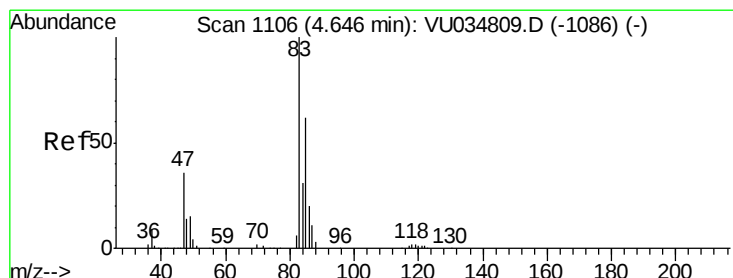
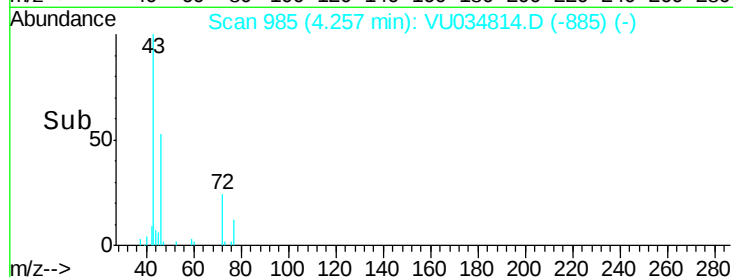
6000

4000

2000

0

Time-->



#25

Chloroform

Concen: 1.333 ug/L m

RT: 4.64 min Scan# 1105

Delta R.T. -0.00 min

Lab File: VU034814.D

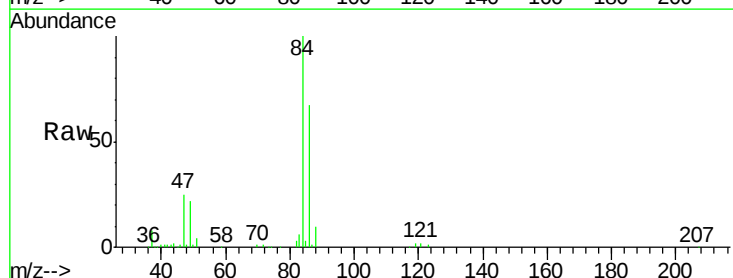
Acq: 25 Sep 2019 19:57

Tgt Ion: 83 Resp: 9169

Ion Ratio Lower Upper

83 100

85 54.6 44.0 81.6



Abundance Ion 83.00 (82.70 to 83.70): VU034809.D (-1086) (-)

Ion 85.00 (84.70 to 85.70): VU034809.D (-1086) (-)

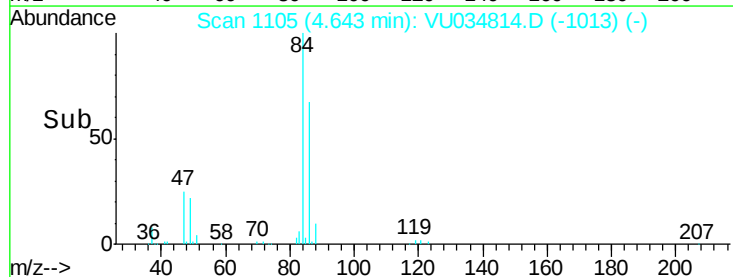
3000

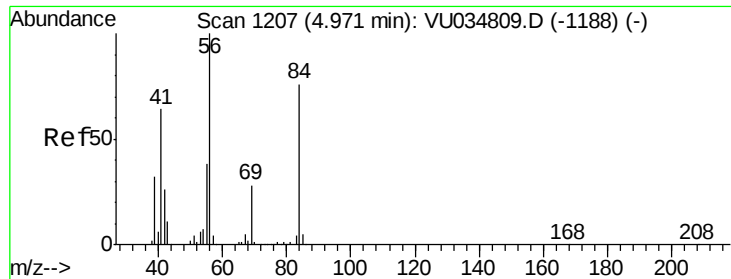
2000

1000

0

Time-->





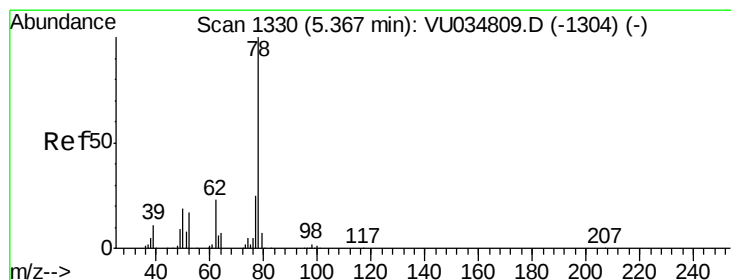
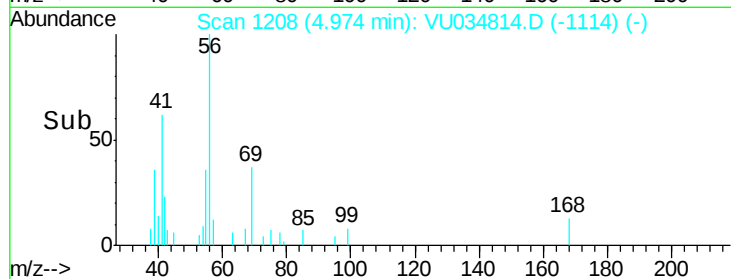
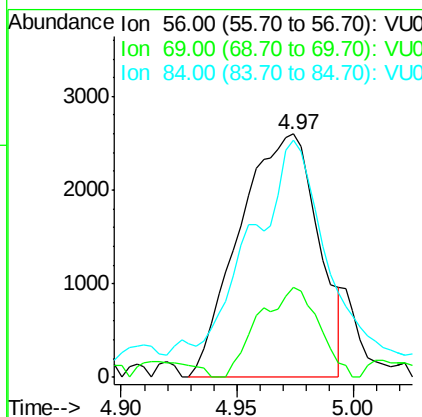
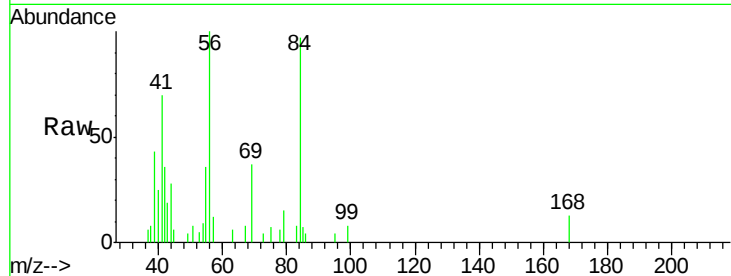
#29
Cyclohexane
Concen: 0.905 ug/L
RT: 4.97 min Scan# 1208
Delta R.T. 0.00 min
Lab File: VU034814.D
Acq: 25 Sep 2019 19:57

Instrument :
MSVOA_U
ClientSampleId :
BDF4

Tot Ion	Ratio	Lower	Upper
56	100		
69	18.8	21.7	32.5#
84	55.3	58.8	88.2#

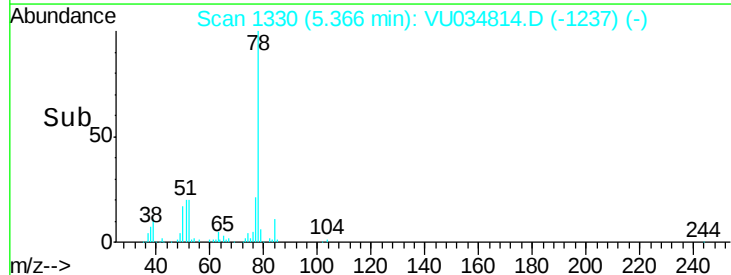
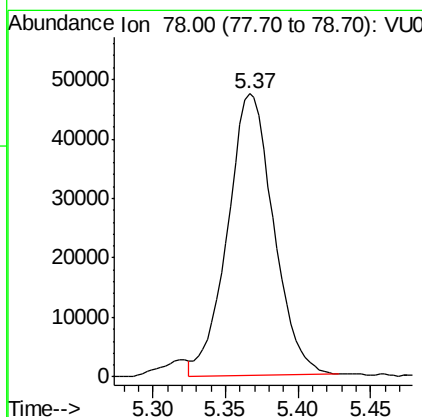
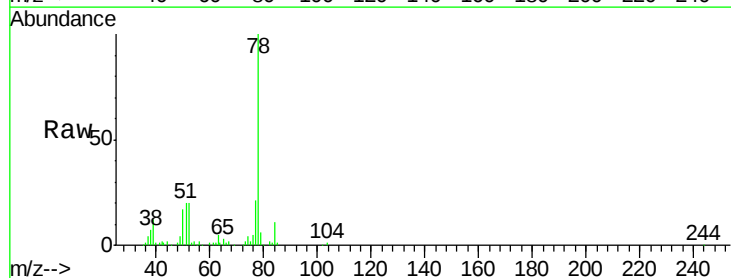
Manual Integrations
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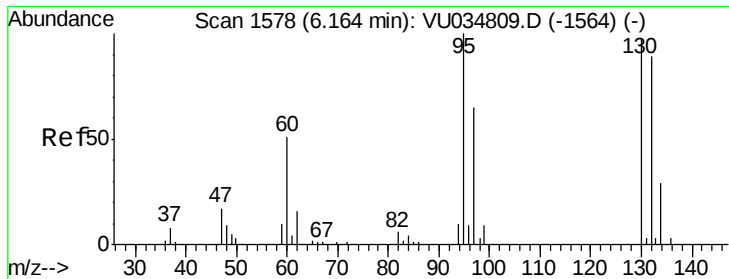
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#33
Benzene
Concen: 7.257 ug/L
RT: 5.37 min Scan# 1330
Delta R.T. -0.00 min
Lab File: VU034814.D
Acq: 25 Sep 2019 19:57

Tgt Ion: 78 Resp: 103562





#34

Trichloroethene

Concen: 1.821 ug/L

RT: 6.17 min Scan# 1580

Delta R.T. 0.01 min

Lab File: VU034814.D

Acq: 25 Sep 2019 19:57

Instrument :

MSVOA_U

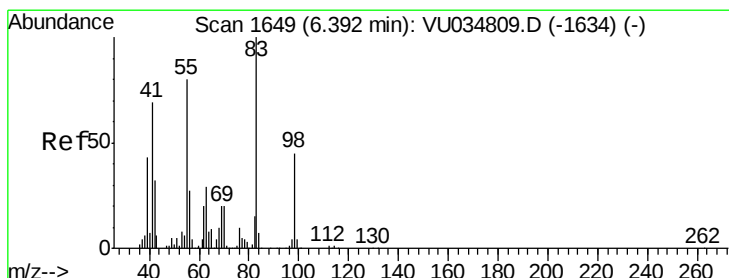
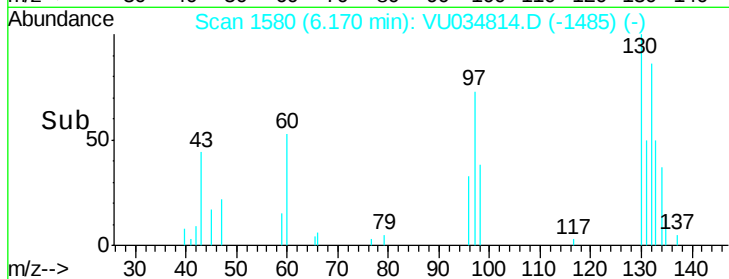
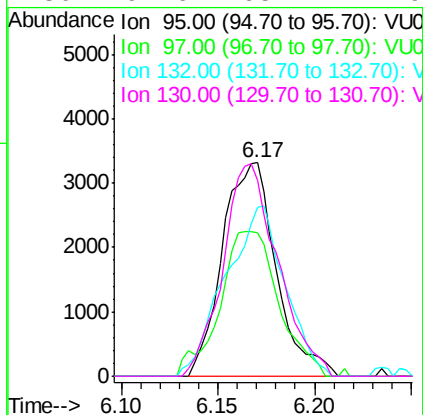
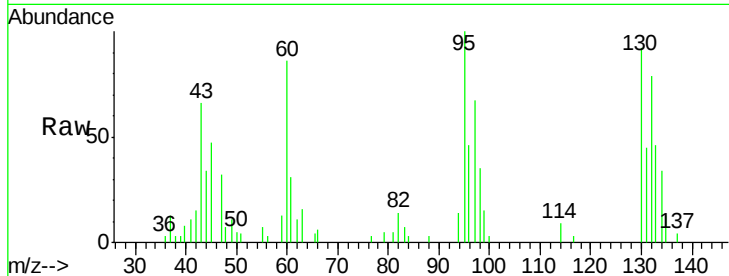
ClientSampled :

BDF4

Tot Ion	Ion	Ratio	Resp	Lower	Upper
95	100		6417		
97	67.3	43.7	81.1		
132	78.9	61.0	113.2		
130	91.6	65.7	121.9		

Manual Integrations
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#35

Methylcyclohexane

Concen: 1.120 ug/L

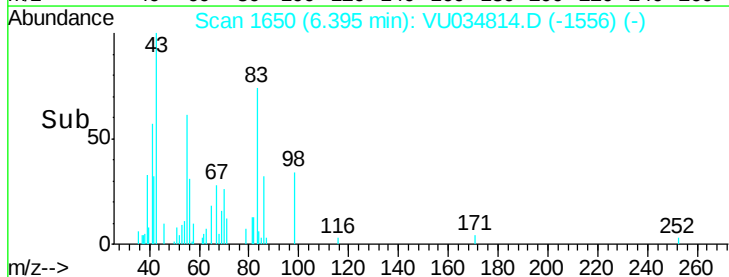
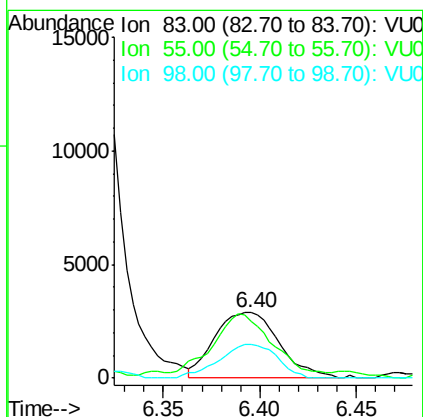
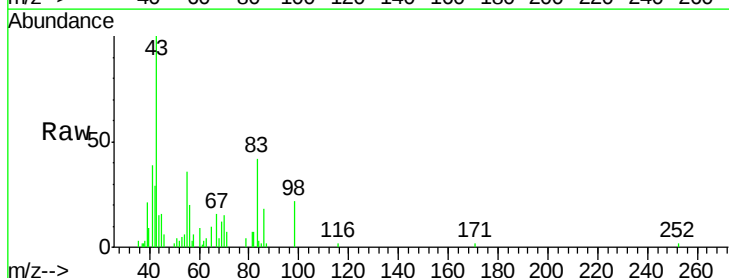
RT: 6.40 min Scan# 1650

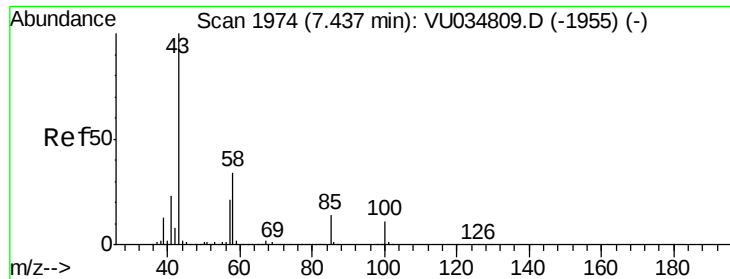
Delta R.T. 0.00 min

Lab File: VU034814.D

Acq: 25 Sep 2019 19:57

Tgt Ion	Ion	Ratio	Resp	Lower	Upper
83	100		6699		
55	86.7	71.6	107.4		
98	46.4	35.7	53.5		





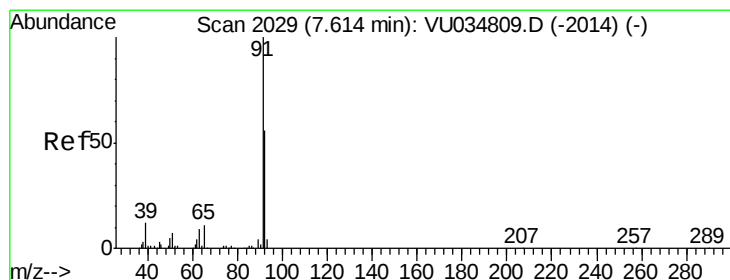
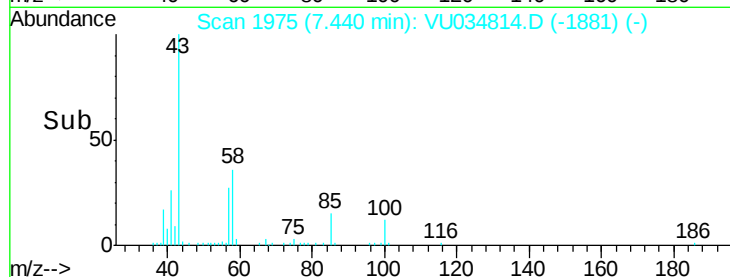
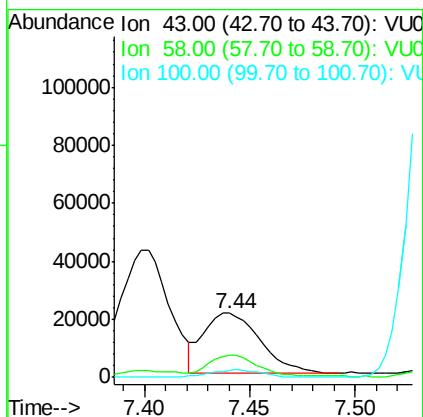
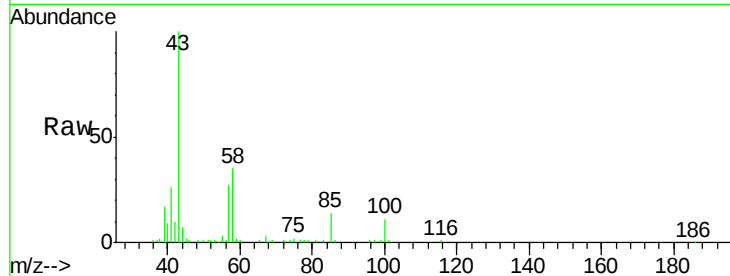
#40
4-Methyl-2-pentanone
Concen: 4.769 ug/L
RT: 7.44 min Scan# 1975
Delta R.T. 0.00 min
Lab File: VU034814.D
Acq: 25 Sep 2019 19:57

Instrument :
MSVOA_U
ClientSampled :
BPDF4

Tot Ion	Ratio	Lower	Upper
43	100		
58	34.2	25.2	37.8
100	11.3	7.7	11.5

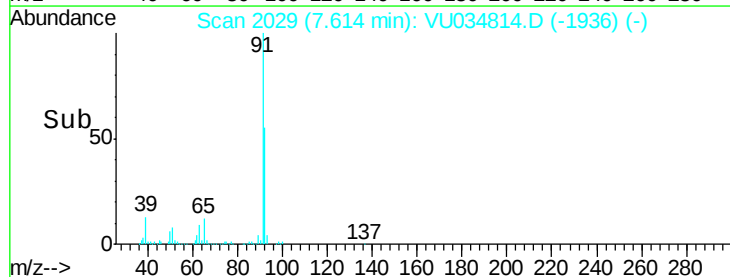
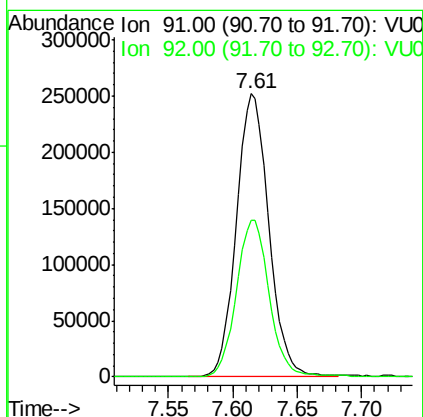
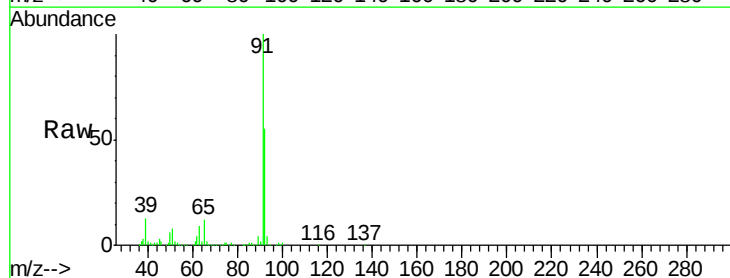
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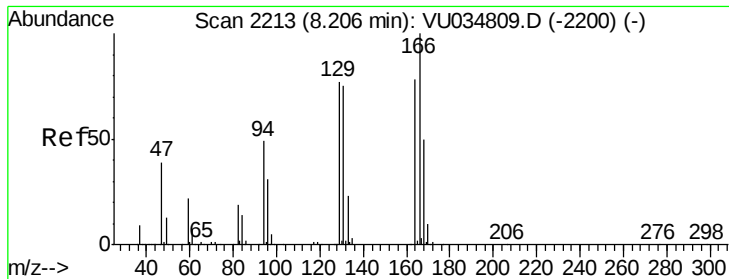
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#42
Toluene
Concen: 28.626 ug/L
RT: 7.61 min Scan# 2029
Delta R.T. -0.00 min
Lab File: VU034814.D
Acq: 25 Sep 2019 19:57

Tgt Ion	Ratio	Lower	Upper
91	100		
92	55.4	38.2	71.0





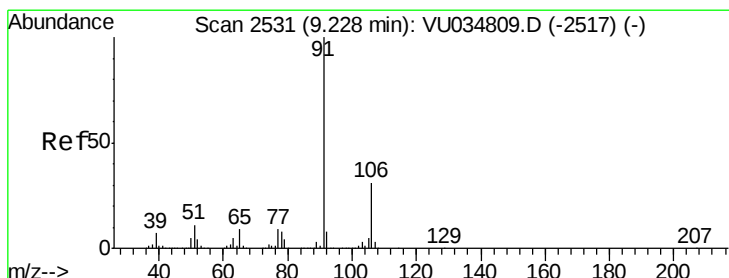
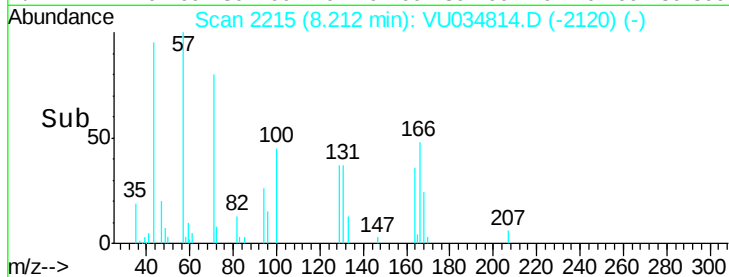
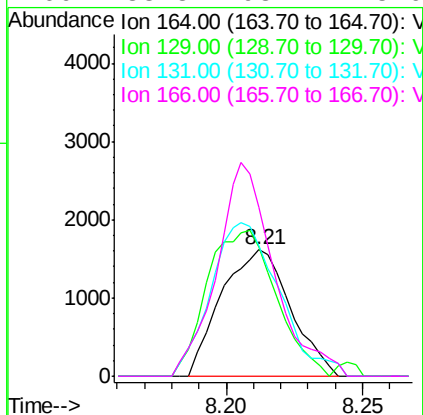
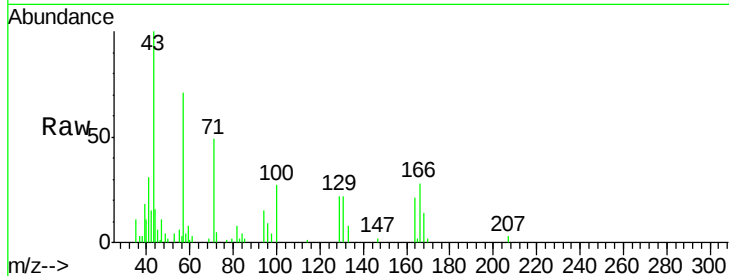
#46
Tetrachloroethene
Concen: 1.143 ug/L
RT: 8.21 min Scan# 2215
Delta R.T. 0.01 min
Lab File: VU034814.D
Acq: 25 Sep 2019 19:57

Instrument :
MSVOA_U
ClientSampled :
BFDF4

Tot Ion:	164	Resp:	2834
Ion	Ratio	Lower	Upper
164	100		
129	102.6	71.9	133.5
131	103.0	66.3	123.1
166	133.8	93.4	173.6

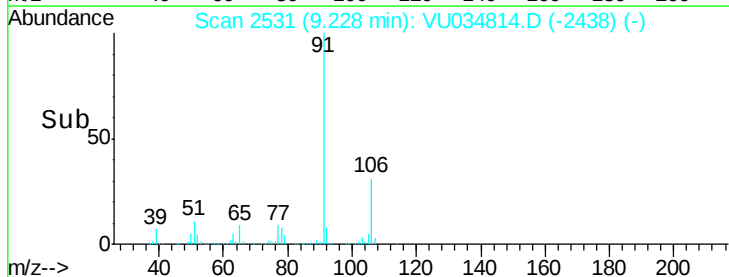
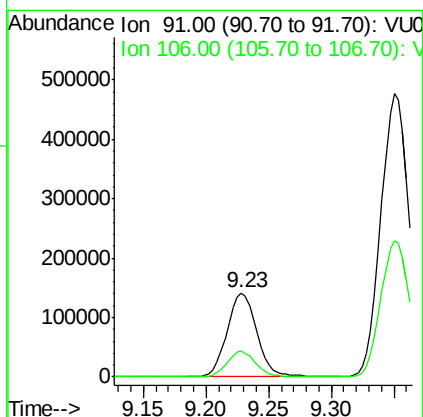
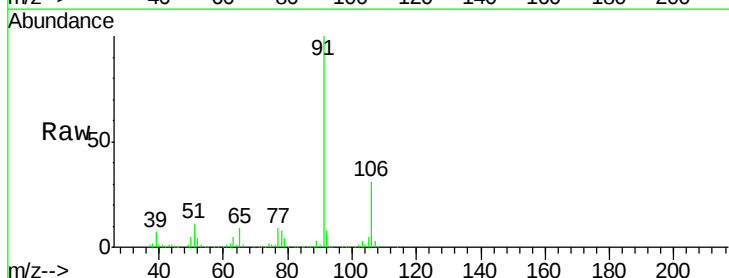
Manual Integrations
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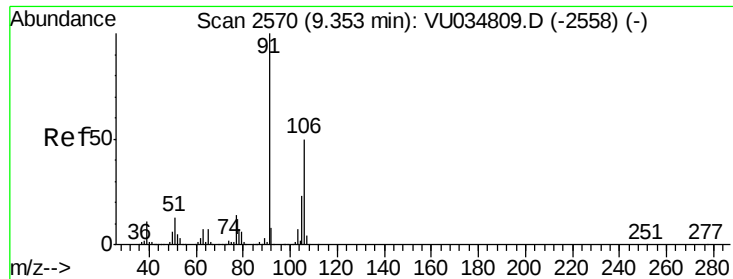
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#52
Ethylbenzene
Concen: 13.420 ug/L
RT: 9.23 min Scan# 2531
Delta R.T. -0.00 min
Lab File: VU034814.D
Acq: 25 Sep 2019 19:57

Tgt Ion:	91	Resp:	233070
Ion	Ratio	Lower	Upper
91	100		
106	30.6	20.6	38.4





#53

m,p-Xylene

Concen: 62.624 ug/L

RT: 9.35 min Scan# 2569

Delta R.T. -0.00 min

Lab File: VU034814.D

Acq: 25 Sep 2019 19:57

Instrument :

MSVOA_U

ClientSampleId :

BPDF4

Tot Ion:106 Resp: 385226

Ion Ratio Lower Upper

106 100

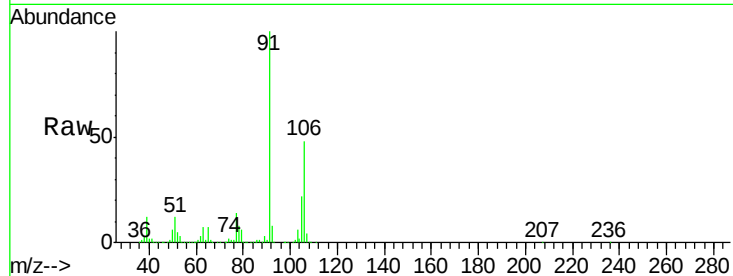
91 207.7 146.9 272.7

Manual Integrations

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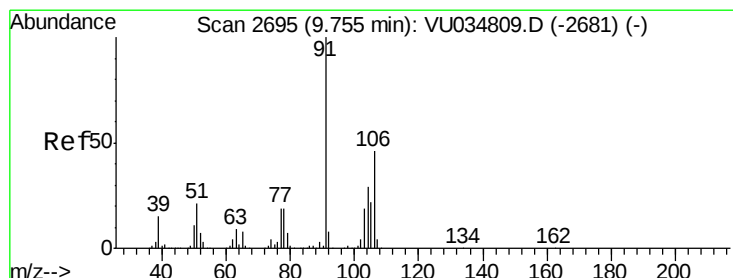
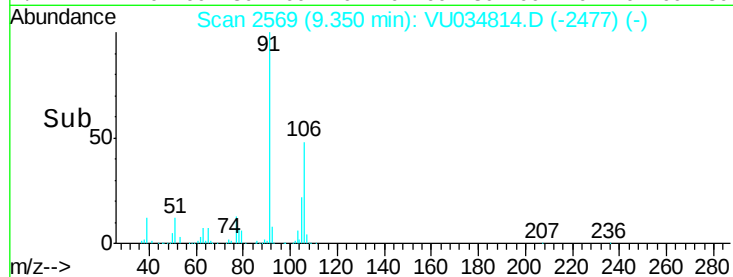
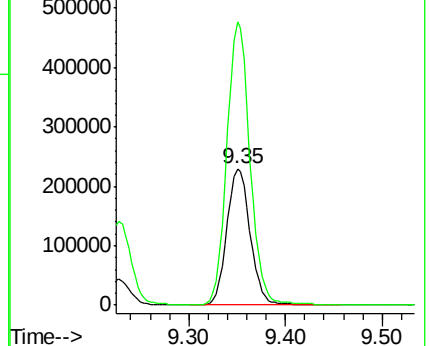
MMDadoda

9/26/2019 1:06:28 PM



Abundance Ion 106.00 (105.70 to 106.70): V

Ion 91.00 (90.70 to 91.70): VU0



#54

o-xylene

Concen: 48.553 ug/L

RT: 9.76 min Scan# 2695

Delta R.T. -0.00 min

Lab File: VU034814.D

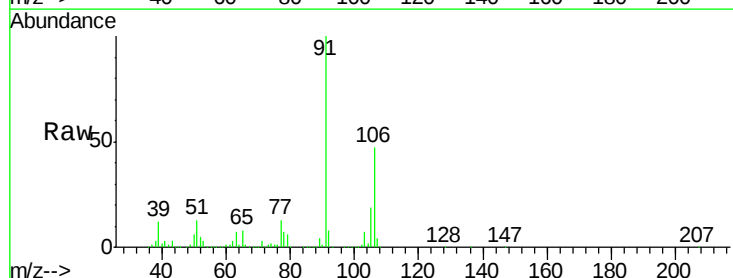
Acq: 25 Sep 2019 19:57

Tgt Ion:106 Resp: 295408

Ion Ratio Lower Upper

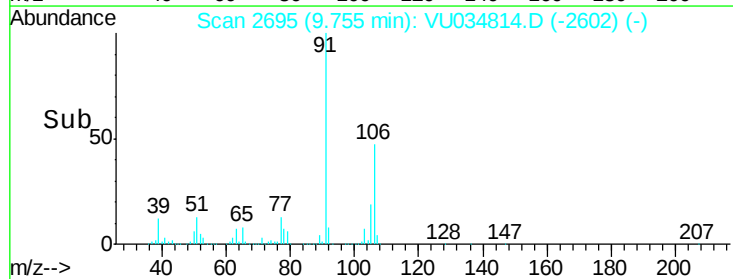
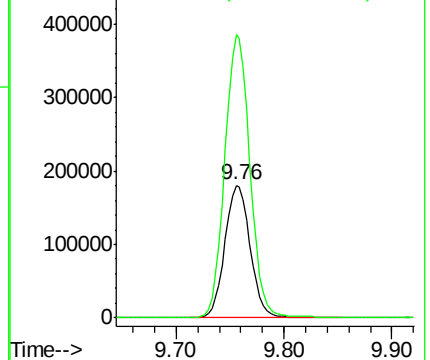
106 100

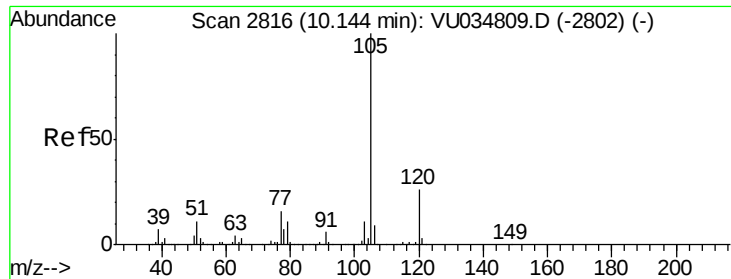
91 213.6 155.6 289.0



Abundance Ion 106.00 (105.70 to 106.70): V

Ion 91.00 (90.70 to 91.70): VU0





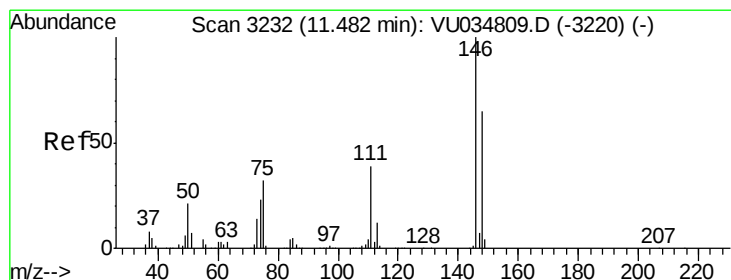
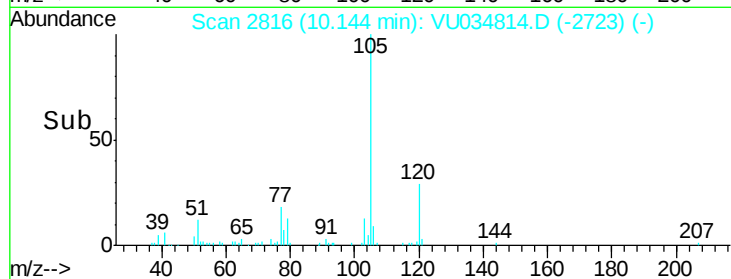
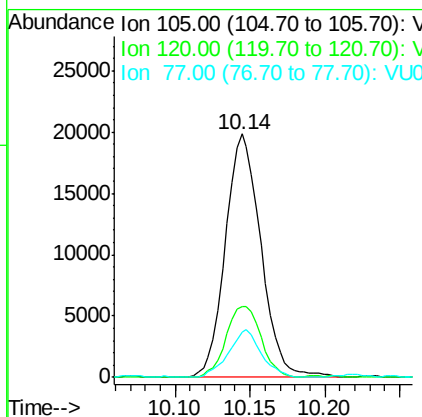
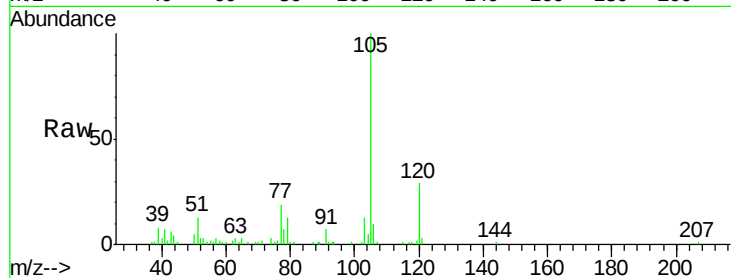
#56
Isopropylbenzene
Concen: 2.001 ug/L
RT: 10.14 min Scan# 2816
Delta R.T. -0.00 min
Lab File: VU034814.D
Acq: 25 Sep 2019 19:57

Instrument :
MSVOA_U
ClientSampled :
BPDF4

Tot Ion	Ratio	Lower	Upper
105	100		
120	28.7	20.4	30.6
77	17.9	14.2	21.4

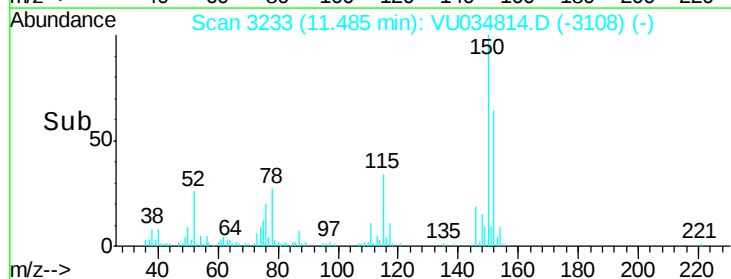
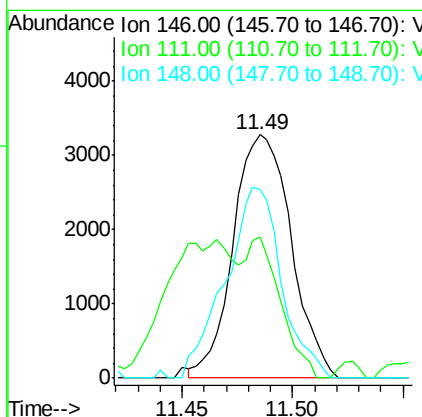
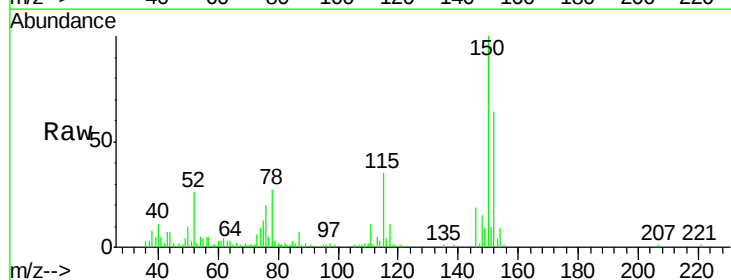
Manual Integrations
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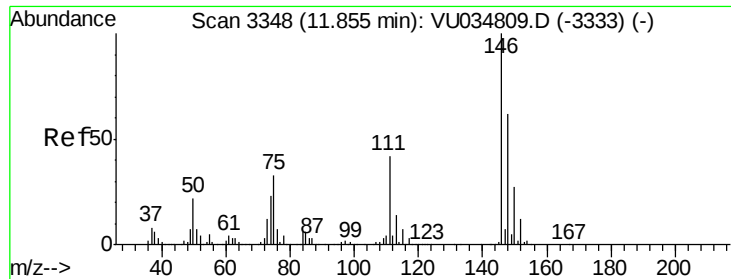
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#63
1,4-Dichlorobenzene
Concen: 0.888 ug/L
RT: 11.49 min Scan# 3233
Delta R.T. 0.00 min
Lab File: VU034814.D
Acq: 25 Sep 2019 19:57

Tgt Ion	Ratio	Lower	Upper
146	100		
111	58.1	29.5	54.9#
148	77.3	44.4	82.4





#65
 1,2-Dichlorobenzene
 Concen: 6.012 ug/L
 RT: 11.85 min Scan# 3348
 Delta R.T. -0.00 min
 Lab File: VU034814.D
 Acq: 25 Sep 2019 19:57

Instrument :
 MSVOA_U
 ClientSampleId :
 BPDF4

Tot Ion	Ratio	Resp	Lower	Upper
146	100	40324		
111	44.1		35.2	52.8
148	65.4		53.0	79.6

Manual Integrations
 APPROVED

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