

Data Path : Z:\VOASRV\HPCHEM1\MSVOA U\DATA\VU040719\
 Data File : VU030841.D
 Acq On : 07 Apr 2019 07:13
 Operator : JC/SP
 Sample : K2249-15
 Misc : 5.0mL/MSVOA U/WATER
 ALS Vial : 51 Sample Multiplier: 1

Instrument :
 MSVOA_U
 ClientSampleId :
 E3YE7

Manual Integrations
 APPROVED

MMDadoda
 4/8/2019 3:17:14 PM

Quant Time: Apr 08 09:33:35 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_U\METHOD\SOMULM040519WMA.M
 Quant Title : VOC Analysis
 QLast Update : Mon Apr 08 07:03:53 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Difluorobenzene	5.88	114	489322	50.00	ug/L	0.00
28) Chlorobenzene-d5	9.09	117	478757	50.00	ug/L	0.00
60) 1,4-Dichlorobenzene-d4	11.48	152	232885	50.00	ug/L	0.00

System Monitoring Compounds

4) Vinyl Chloride-d3	1.40	65	227359	52.05	ug/L	0.00
Spiked Amount	50.000	Range	60 - 135	Recovery	=	104.10%
7) Chloroethane-d5	1.68	69	173029	52.19	ug/L	0.00
Spiked Amount	50.000	Range	70 - 130	Recovery	=	104.38%
11) 1,1-Dichloroethene-d2	2.27	63	527606	66.78	ug/L	0.00
Spiked Amount	50.000	Range	60 - 125	Recovery	=	133.56%#
21) 2-Butanone-d5	4.18	46	363857	105.10	ug/L	0.01
Spiked Amount	100.000	Range	40 - 130	Recovery	=	105.10%
24) Chloroform-d	4.64	84	322950	48.40	ug/L	0.00
Spiked Amount	50.000	Range	70 - 125	Recovery	=	96.80%
26) 1,2-Dichloroethane-d4	5.31	65	229323	50.37	ug/L	0.00
Spiked Amount	50.000	Range	70 - 125	Recovery	=	100.74%
32) Benzene-d6	5.34	84	693792	49.64	ug/L	0.00
Spiked Amount	50.000	Range	70 - 125	Recovery	=	99.28%
36) 1,2-Dichloropropane-d6	6.32	67	238426	49.78	ug/L	0.00
Spiked Amount	50.000	Range	70 - 120	Recovery	=	99.56%
41) Toluene-d8	7.56	98	588900	47.54	ug/L	0.00
Spiked Amount	50.000	Range	80 - 120	Recovery	=	95.08%
43) trans-1,3-Dichloropropene-	7.85	79	94707	43.36	ug/L	0.00
Spiked Amount	50.000	Range	60 - 125	Recovery	=	86.72%
47) 2-Hexanone-d5	8.31	63	212708	97.16	ug/L	0.00
Spiked Amount	100.000	Range	45 - 130	Recovery	=	97.16%
57) 1,1,2,2-Tetrachloroethane-	10.43	84	322843	49.97	ug/L	0.00
Spiked Amount	50.000	Range	65 - 120	Recovery	=	99.94%
64) 1,2-Dichlorobenzene-d4	11.85	152	226207	49.39	ug/L	0.00
Spiked Amount	50.000	Range	80 - 120	Recovery	=	98.78%

Target Compounds

Target Compounds	R.T.	QIon	Response	Conc	Units	Ovalue
5) Vinyl chloride	1.40	62	1471262	273.380	ug/L	98
8) Chloroethane	1.69	64	633459	206.371	ug/L	99
12) 1,1-Dichloroethene	2.28	96	396711	117.285	ug/L	87
13) Acetone	2.32	43	18775	5.300	ug/L	99
16) Methylene chloride	2.70	84	19834	4.827	ug/L	94
17) trans-1,2-Dichloroethene	2.98	96	456795	127.190	ug/L	98
19) 1,1-Dichloroethane	3.44	63	16852842	2273.843	ug/L	98
20) cis-1,2-Dichloroethene	4.21	96	23873447m	6020.250	ug/L	
27) 1,2-Dichloroethane	5.40	62	64901	11.415	ug/L #	92
30) 1,1,1-Trichloroethane	4.91	97	19495321	3341.334	ug/L	99
33) Benzene	5.39	78	130153	8.307	ug/L	100
34) Trichloroethene	6.18	95	253246	65.905	ug/L	98
35) Methylcyclohexane	6.41	83	13668	2.305	ug/L	97
42) Toluene	7.63	91	823616	51.501	ug/L	98
45) 1,1,2-Trichloroethane	8.06	97	44097	11.720	ug/L	97
46) Tetrachloroethene	8.22	164	46057	16.486	ug/L	93
52) Ethylbenzene	9.24	91	2001361	114.809	ug/L	100

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Quant Title : VOC Analysis
QLast Update : Mon Apr 08 07:03:53 2019
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
53) m,p-Xylene	9.37	106	1810130	297.732	ug/L	95
54) o-xylene	9.77	106	1820456	301.030	ug/L	97
56) Isopropylbenzene	10.16	105	305942	19.215	ug/L	99
65) 1,2-Dichlorobenzene	11.87	146	161919	21.931	ug/L	98

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

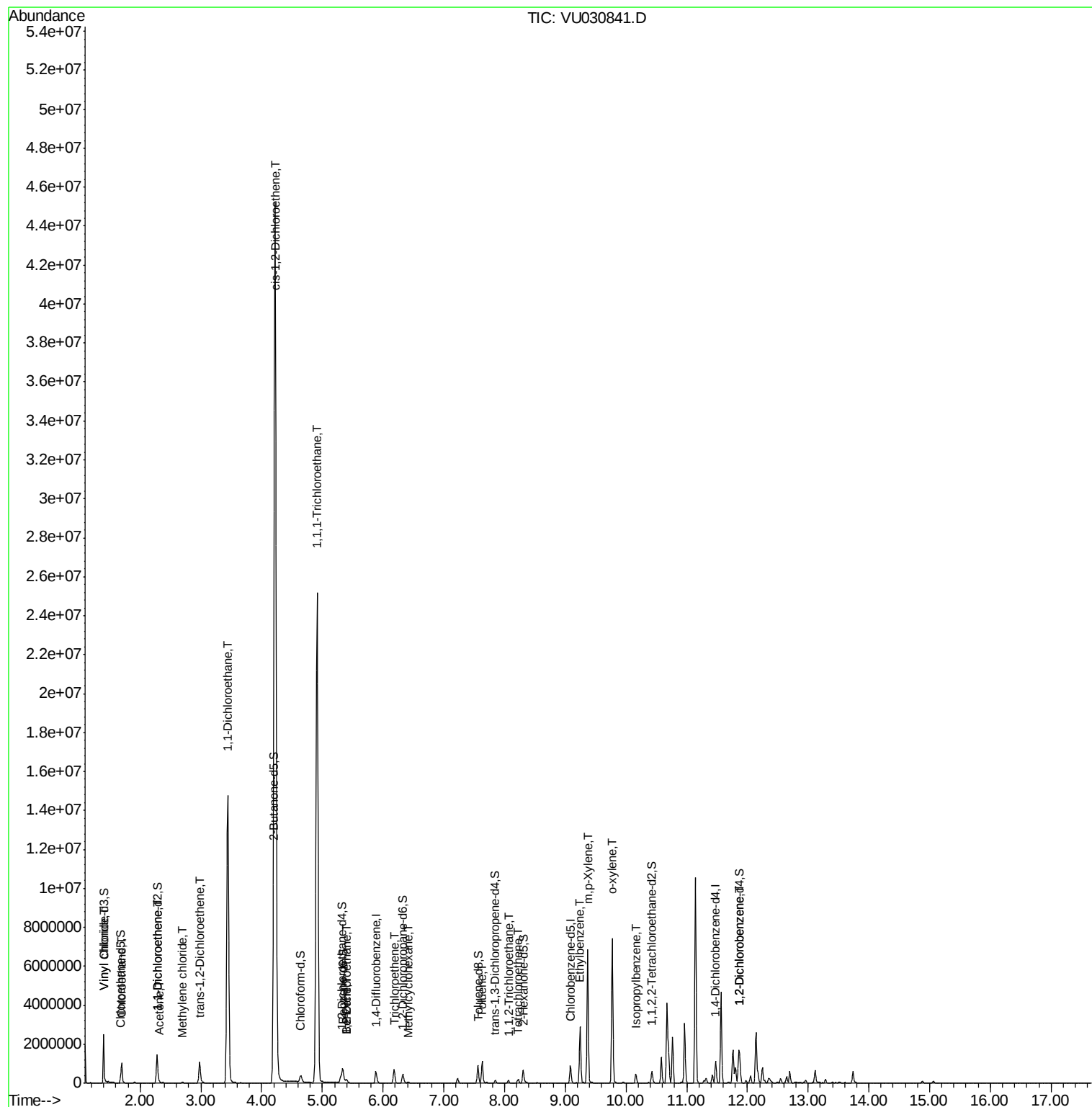
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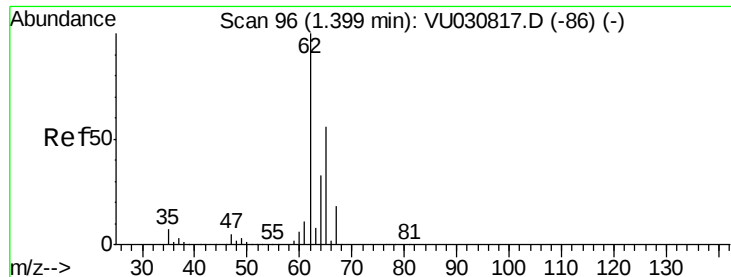
Instrument :
MSVOA_U
ClientSampleId :
E3YE7

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Quant Method : Z:\V0ASRV\HPCHEM1\MSVOA_U\METHOD\SOMULM040519WMA.M
Quant Title : VOC Analysis
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Response via : Initial Calibration





#5

Vinyl chloride

Concen: 273.380 ug/L

RT: 1.40 min Scan# 96

Delta R.T. -0.00 min

Lab File: VU030841.D

Acq: 07 Apr 2019 07:13

Instrument :

MSVOA_U

ClientSampleId :

E3YE7

Tot Ion: 62 Resp: 1471262

Ion Ratio Lower Upper

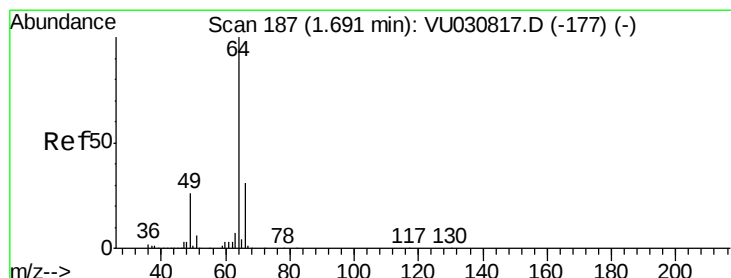
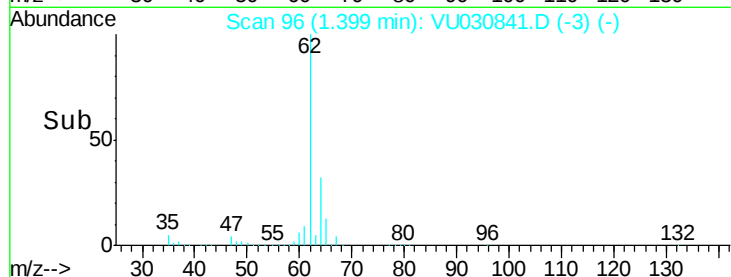
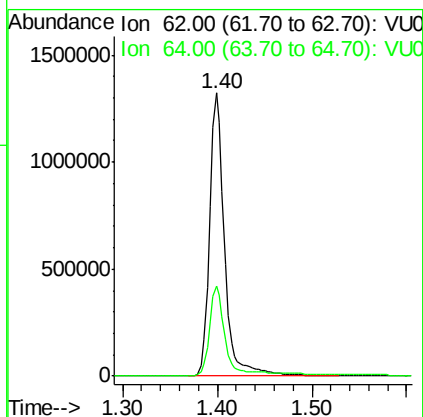
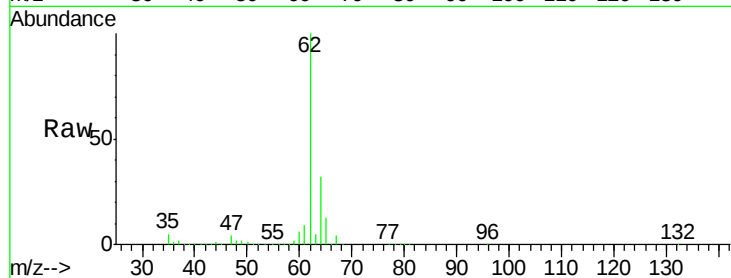
62 100

64 32.0 21.5 39.9

Manual Integrations
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#8

Chloroethane

Concen: 206.371 ug/L

RT: 1.69 min Scan# 188

Delta R.T. 0.00 min

Lab File: VU030841.D

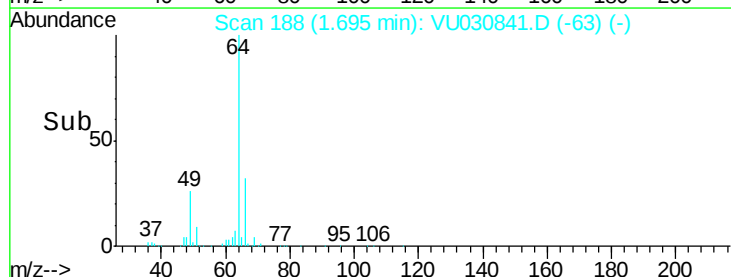
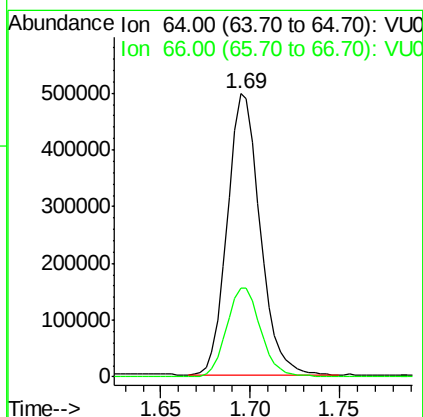
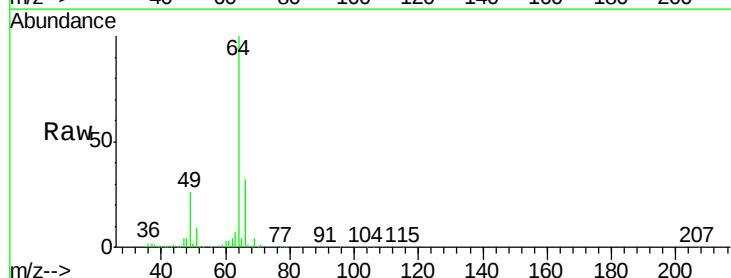
Acq: 07 Apr 2019 07:13

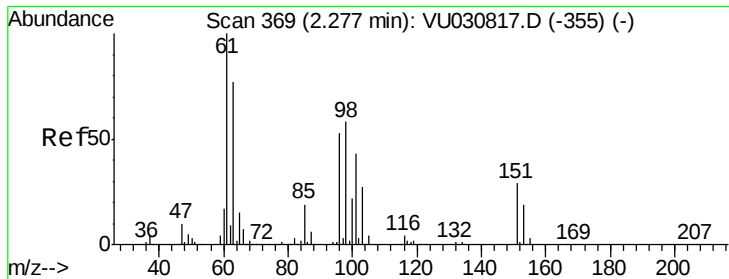
Tgt Ion: 64 Resp: 633459

Ion Ratio Lower Upper

64 100

66 31.6 22.4 41.6





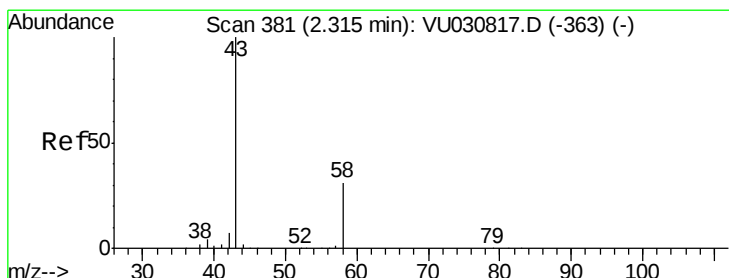
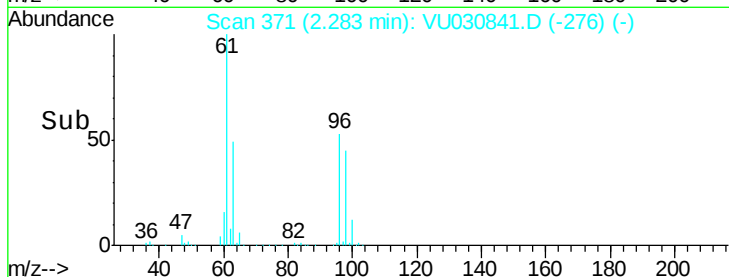
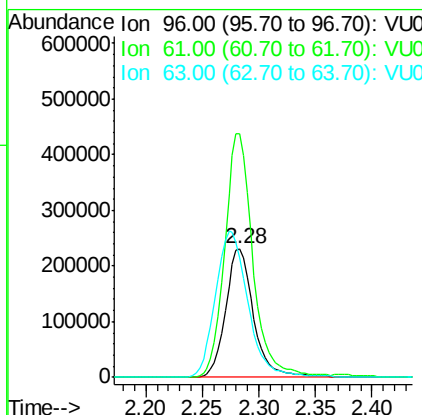
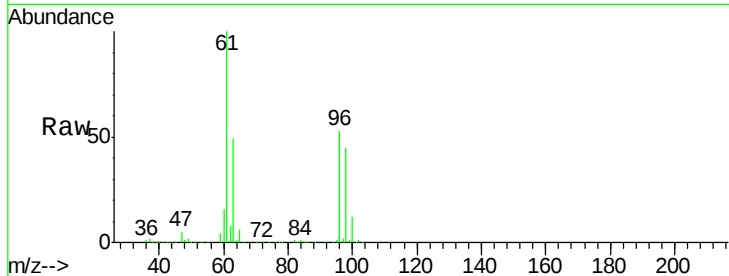
#12
 1,1-Dichloroethene
 Concen: 117.285 ug/L
 RT: 2.28 min Scan# 371
 Delta R.T. 0.01 min
 Lab File: VU030841.D
 Acq: 07 Apr 2019 07:13

Instrument :
 MSVOA_U
 ClientSampled :
 E3YE7

Tot Ion	Ratio	Lower	Upper
96	100		
61	188.7	132.0	245.2
63	92.3	90.9	168.9

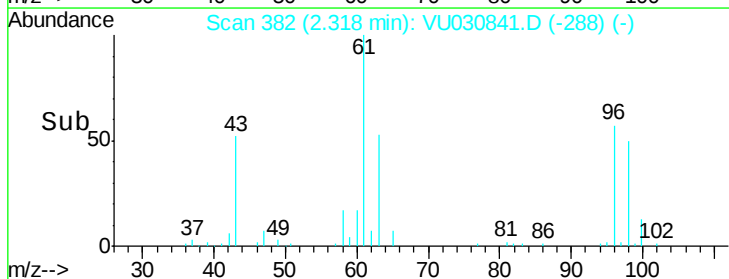
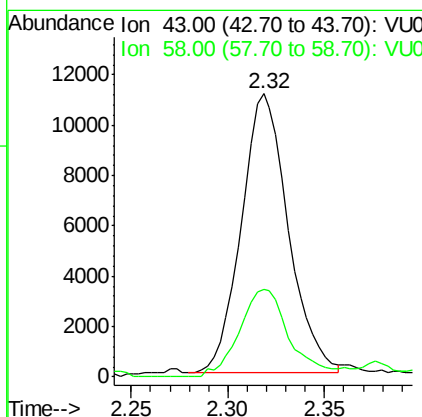
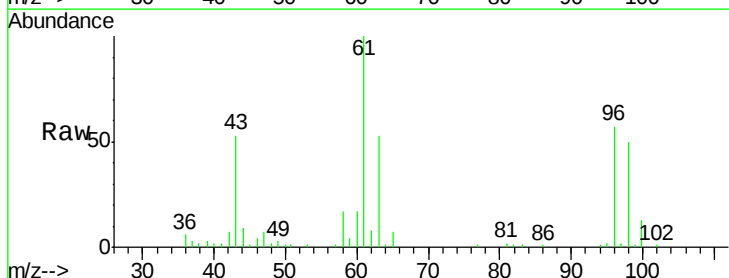
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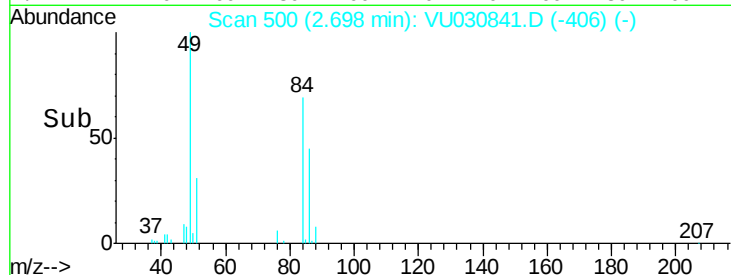
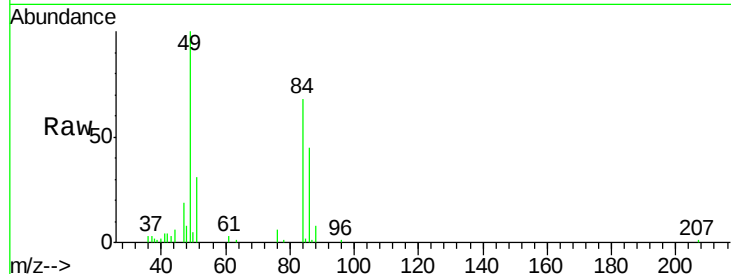
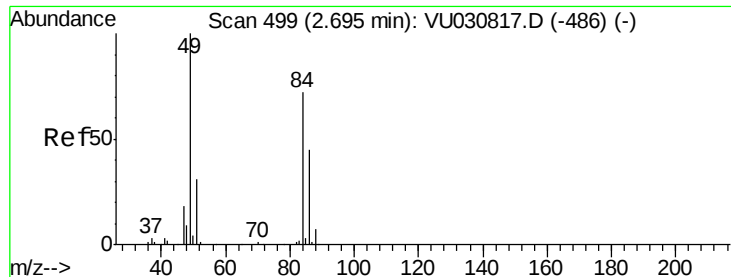
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#13
 Acetone
 Concen: 5.300 ug/L
 RT: 2.32 min Scan# 382
 Delta R.T. 0.00 min
 Lab File: VU030841.D
 Acq: 07 Apr 2019 07:13

Tgt Ion	Ratio	Lower	Upper
43	100		
58	32.8	0.0	64.0





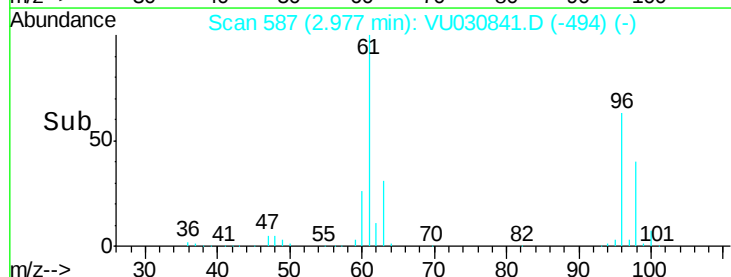
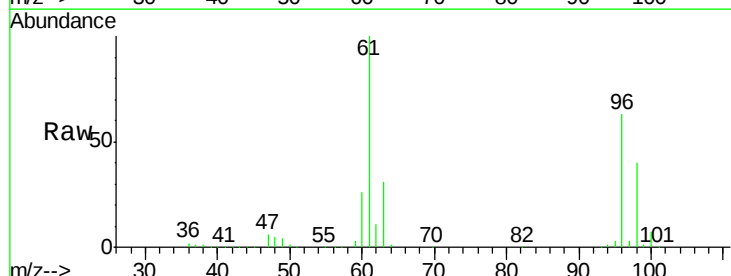
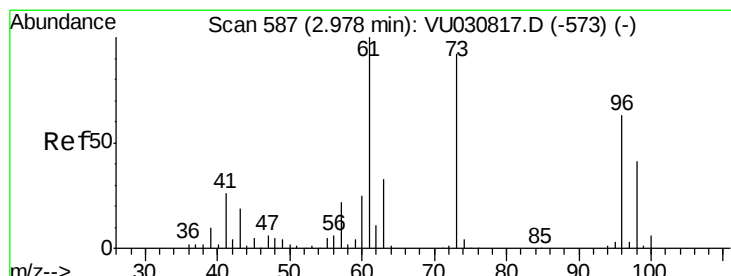
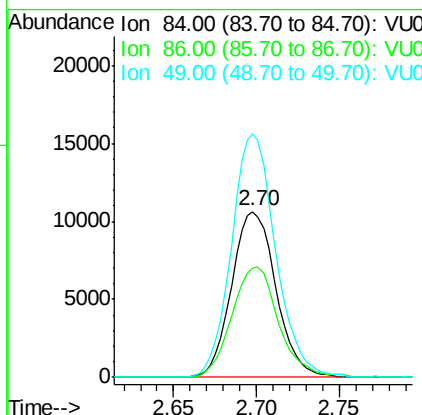
#16
Methylene chloride
Concen: 4.827 ug/L
RT: 2.70 min Scan# 500
Delta R.T. 0.00 min
Lab File: VU030841.D
Acq: 07 Apr 2019 07:13

Tot Ion	84	Resp	19834
Ion Ratio	Lower	Upper	
84	100		
86	65.6	45.1	83.7
49	147.1	96.5	179.1

Instrument :
MSVOA_U
ClientSampleId :
E3YE7

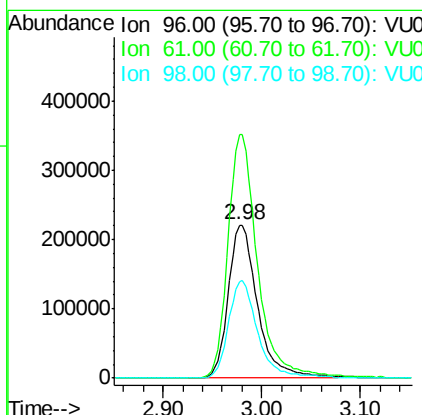
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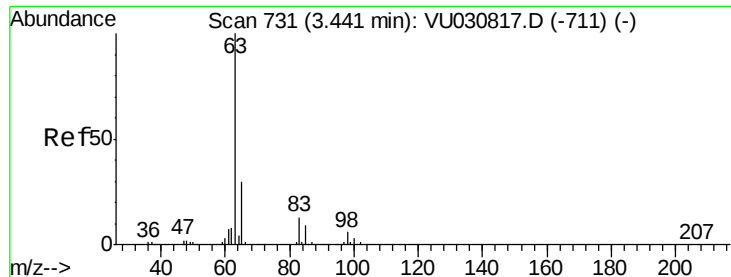
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#17
trans-1,2-Dichloroethene
Concen: 127.190 ug/L
RT: 2.98 min Scan# 587
Delta R.T. -0.00 min
Lab File: VU030841.D
Acq: 07 Apr 2019 07:13

Tgt Ion	96	Resp	456795
Ion Ratio	Lower	Upper	
96	100		
61	159.0	109.5	203.3
98	63.1	44.0	81.6





#19

1,1-Dichloroethane

Concen: 2273.843 ug/L

RT: 3.44 min Scan# 731

Delta R.T. -0.00 min

Lab File: VU030841.D

Acq: 07 Apr 2019 07:13

Instrument :

MSVOA_U

ClientSampleId :

E3YE7

Tot Ion: 63 Resp:16852842

Ion Ratio Lower Upper

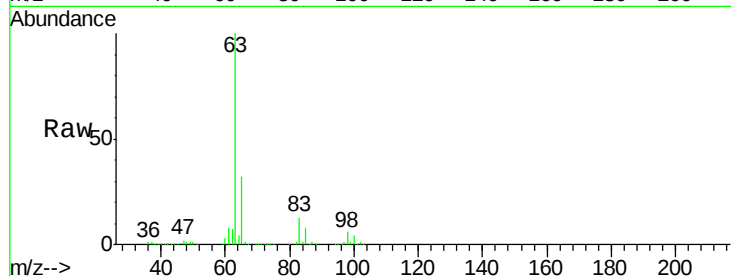
63 100

65 31.8 21.4 39.8

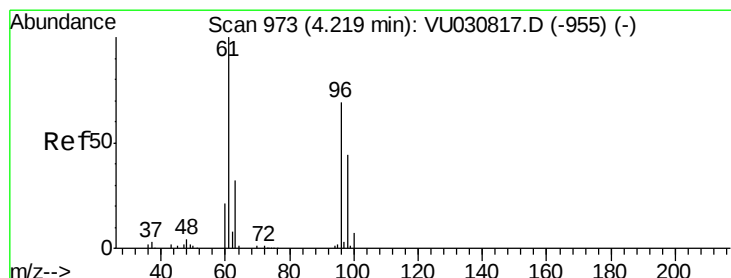
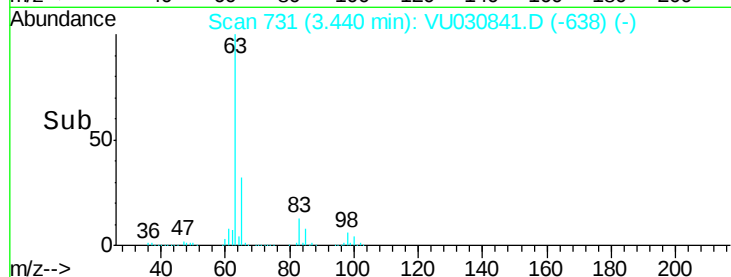
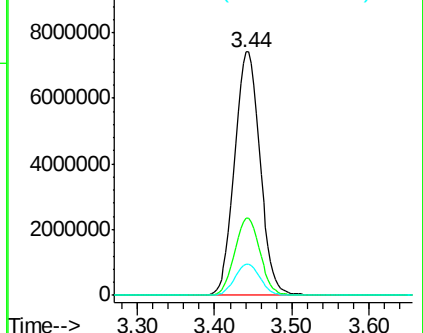
83 12.8 8.5 15.7

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Abundance Ion 63.00 (62.70 to 63.70): VU0
Ion 65.00 (64.70 to 65.70): VU0
Ion 83.00 (82.70 to 83.70): VU0



#20

cis-1,2-Dichloroethene

Concen: 6020.250 ug/L m

RT: 4.21 min Scan# 971

Delta R.T. -0.01 min

Lab File: VU030841.D

Acq: 07 Apr 2019 07:13

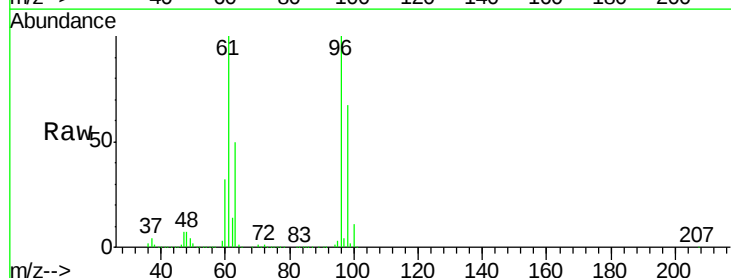
Tgt Ion: 96 Resp:23873447

Ion Ratio Lower Upper

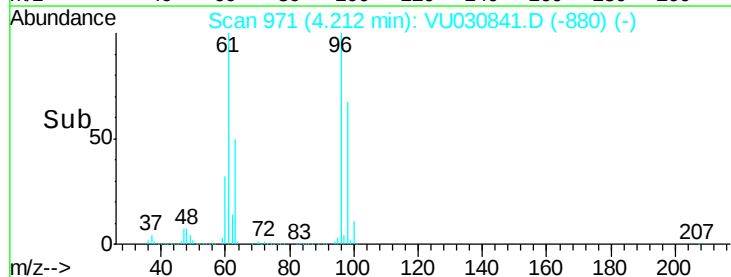
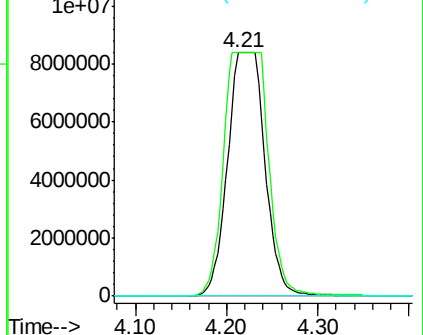
96 100

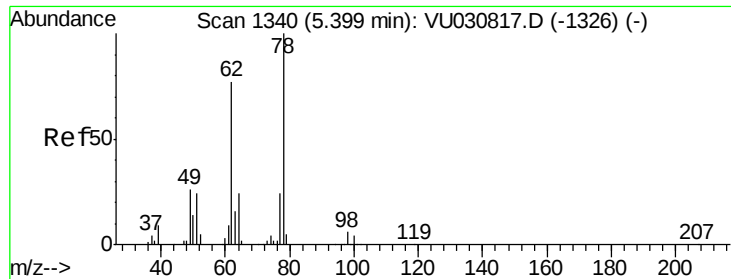
61 100.0 102.9 191.1#

68 0.0 0.0 0.0#



Abundance Ion 96.00 (95.70 to 96.70): VU0
Ion 61.00 (60.70 to 61.70): VU0
Ion 68.00 (67.70 to 68.70): VU0





#27

1,2-Dichloroethane

Concen: 11.415 ug/L

RT: 5.40 min Scan# 1341

Delta R.T. 0.00 min

Lab File: VU030841.D

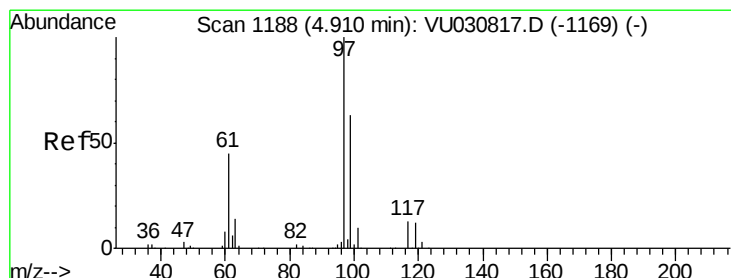
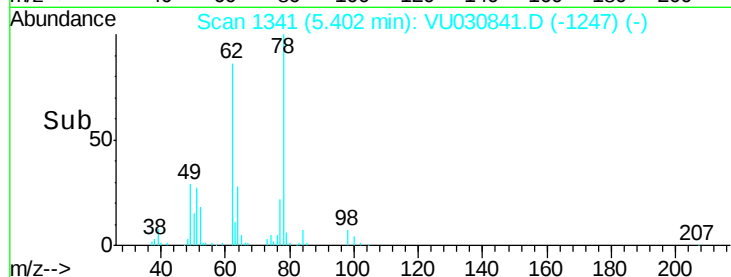
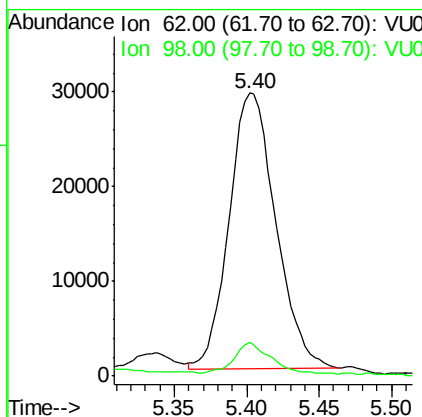
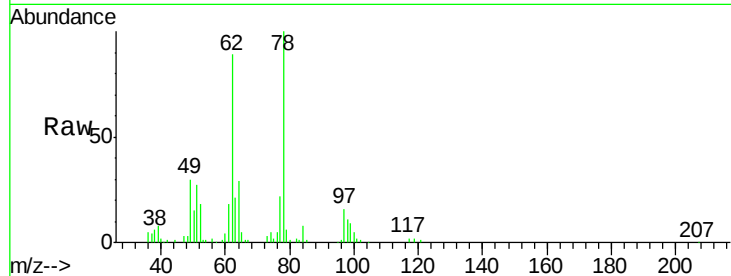
Acq: 07 Apr 2019 07:13

Instrument :
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Tot Ion	Ratio	Lower	Upper
62	100		
98	11.9	7.2	10.8#

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#30

1,1,1-Trichloroethane

Concen: 3341.334 ug/L

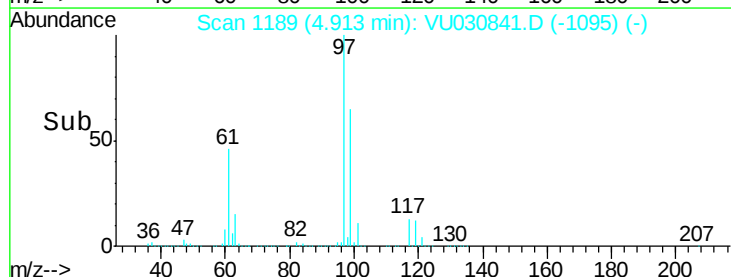
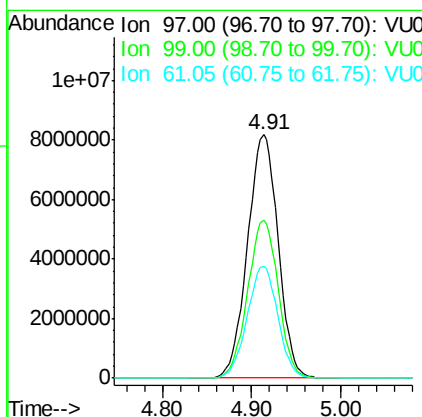
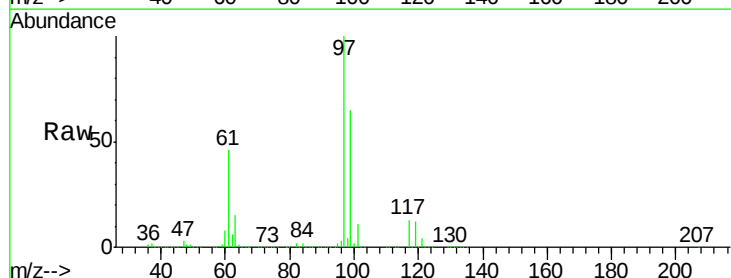
RT: 4.91 min Scan# 1189

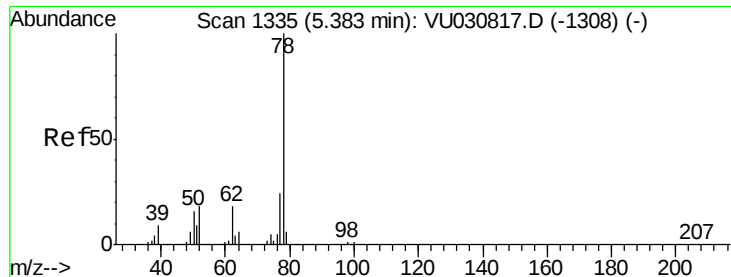
Delta R.T. 0.00 min

Lab File: VU030841.D

Acq: 07 Apr 2019 07:13

Tgt Ion	Ratio	Lower	Upper
97	100		
99	64.8	51.4	77.2
61	45.8	37.1	55.7





#33

Benzene

Concen: 8.307 ug/L

RT: 5.39 min Scan# 1336

Delta R.T. 0.00 min

Lab File: VU030841.D

Acq: 07 Apr 2019 07:13

Instrument :

MSVOA_U

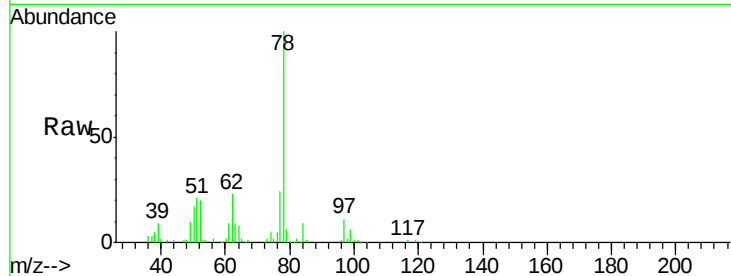
ClientSampleId :

E3YE7

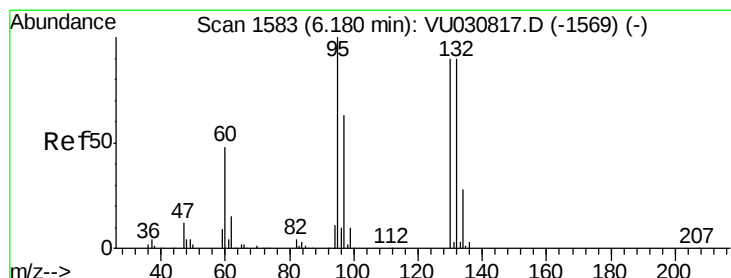
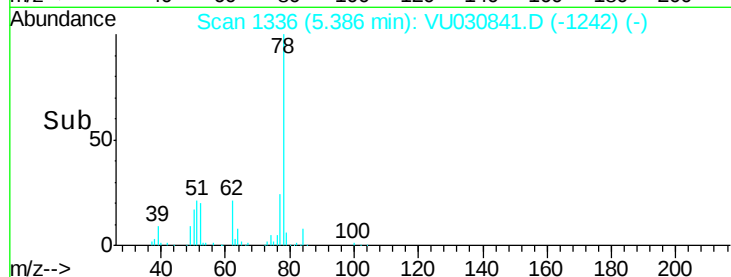
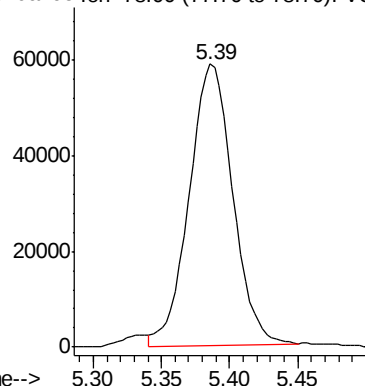
Tgt Ion: 78 Resp: 130153

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Abundance Ion 78.00 (77.70 to 78.70): VU0



#34

Trichloroethene

Concen: 65.905 ug/L

RT: 6.18 min Scan# 1583

Delta R.T. -0.00 min

Lab File: VU030841.D

Acq: 07 Apr 2019 07:13

Tgt Ion: 95 Resp: 253246

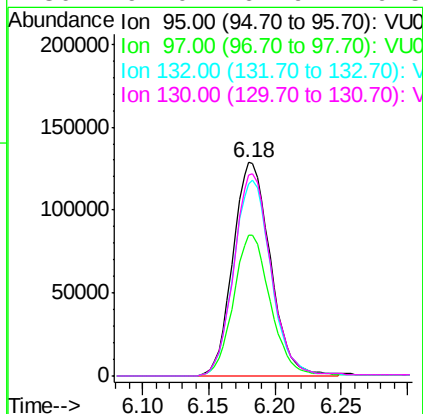
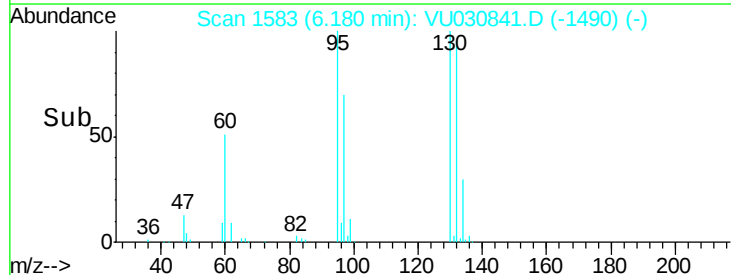
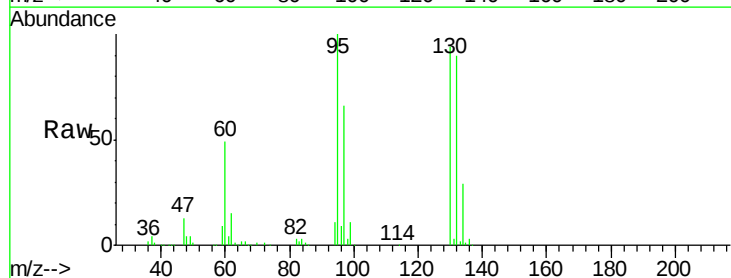
Ion	Ratio	Lower	Upper
95	100		
97	66.0	44.5	82.7
132	89.8	61.5	114.1
130	94.0	64.9	120.5

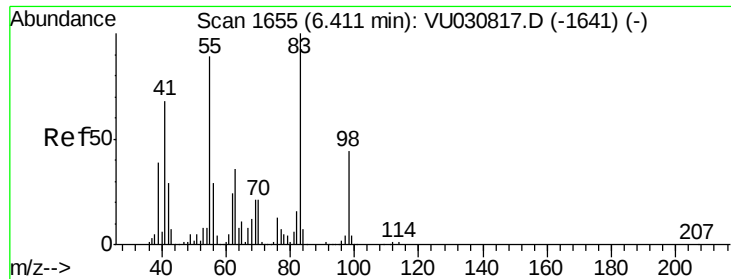
Abundance Ion 95.00 (94.70 to 95.70): VU0

Ion 97.00 (96.70 to 97.70): VU0

Ion 132.00 (131.70 to 132.70): V

Ion 130.00 (129.70 to 130.70): V





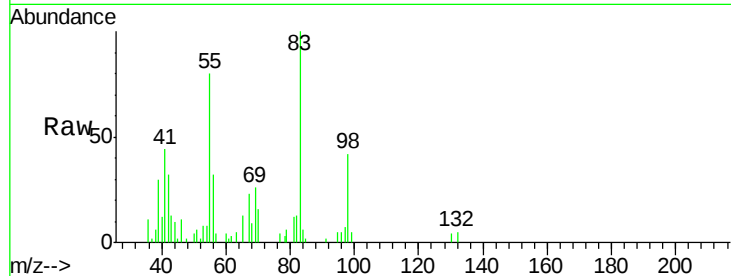
#35
Methvlcvclohexane
Concen: 2.305 ug/L
RT: 6.41 min Scan# 1655
Delta R.T. -0.00 min
Lab File: VU030841.D
Acq: 07 Apr 2019 07:13

Instrument :
MSVOA_U
ClientSampleId :
E3YE7

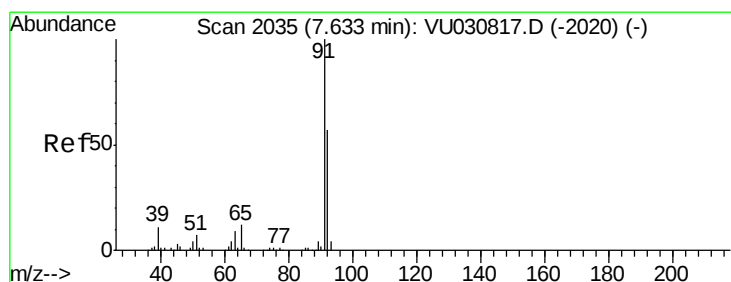
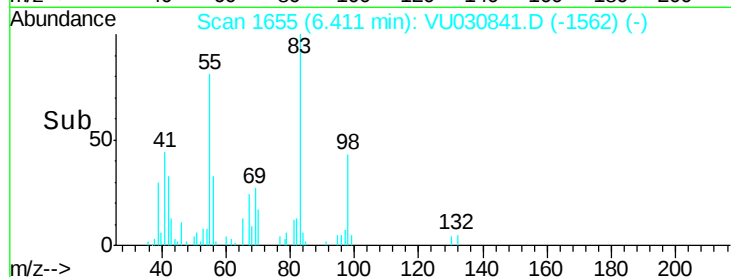
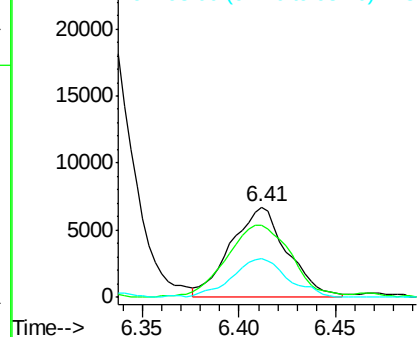
Tot Ion	83	Resp	13668
Ion Ratio	Lower	Upper	
83	100		
55	92.0	71.6	107.4
98	42.1	35.4	53.0

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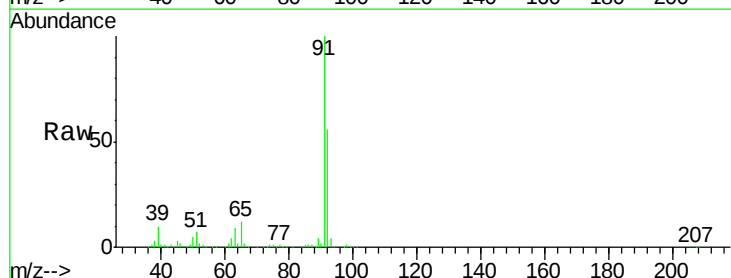


Abundance Ion 83.00 (82.70 to 83.70): VU0
Ion 55.00 (54.70 to 55.70): VU0
Ion 98.00 (97.70 to 98.70): VU0

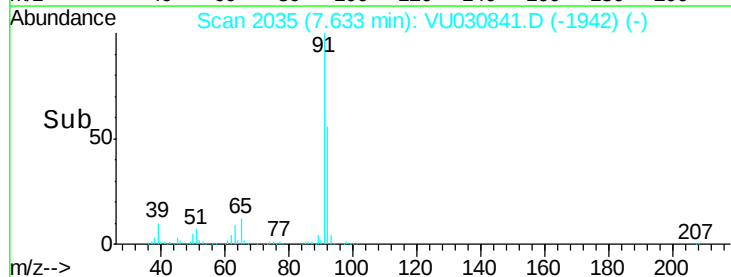
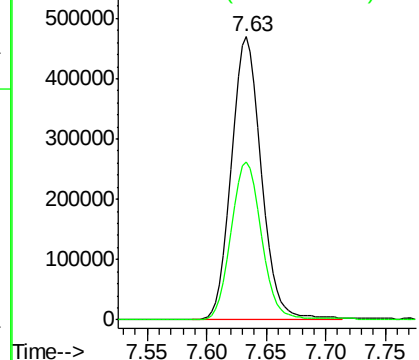


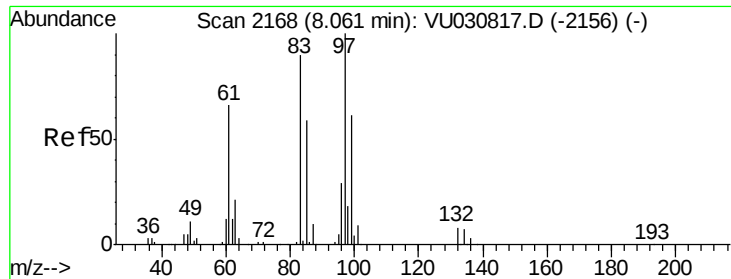
#42
Toluene
Concen: 51.501 ug/L
RT: 7.63 min Scan# 2035
Delta R.T. -0.00 min
Lab File: VU030841.D
Acq: 07 Apr 2019 07:13

Tgt Ion	91	Resp	823616
Ion Ratio	Lower	Upper	
91	100		
92	56.0	40.0	74.4



Abundance Ion 91.00 (90.70 to 91.70): VU0
Ion 92.00 (91.70 to 92.70): VU0





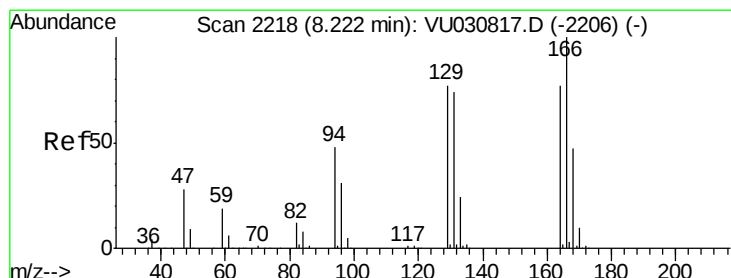
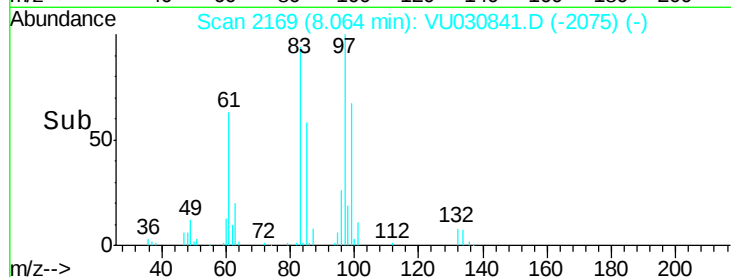
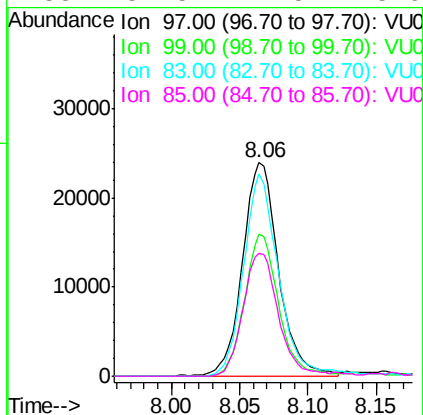
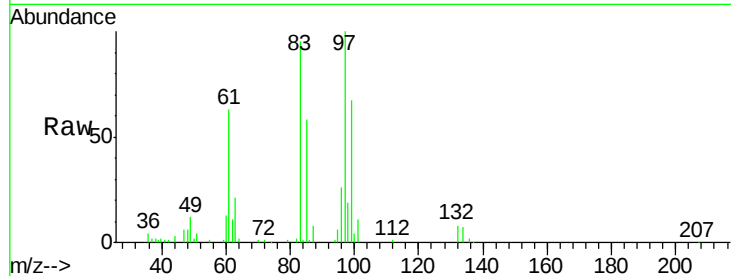
#45
1,1,2-Trichloroethane
Concen: 11.720 ug/L
RT: 8.06 min Scan# 2169
Delta R.T. 0.00 min
Lab File: VU030841.D
Acq: 07 Apr 2019 07:13

Instrument :
MSVOA_U
ClientSampleId :
E3YE7

Tot Ion:	97	Resp:	44097
Ion	Ratio	Lower	Upper
97	100		
99	66.5	44.0	81.8
83	94.8	65.3	121.3
85	57.5	42.5	78.9

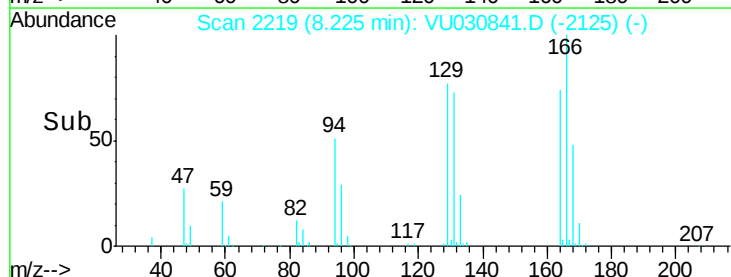
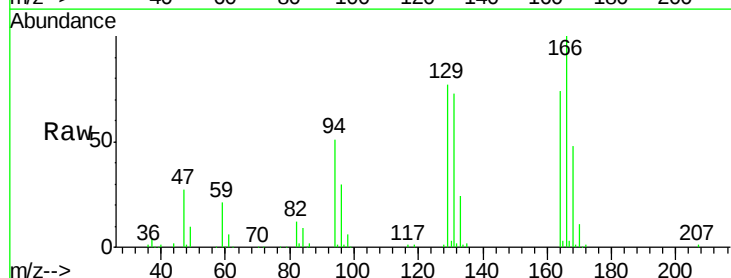
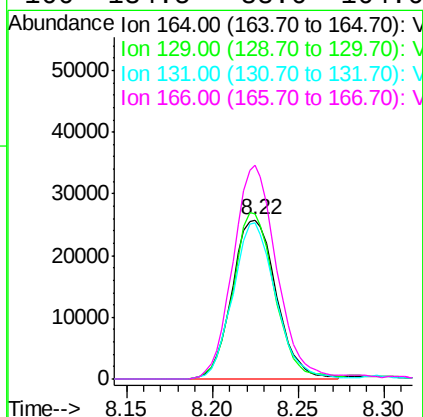
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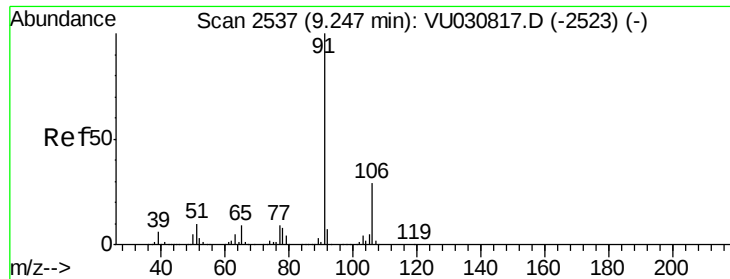
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#46
Tetrachloroethene
Concen: 16.486 ug/L
RT: 8.22 min Scan# 2219
Delta R.T. 0.00 min
Lab File: VU030841.D
Acq: 07 Apr 2019 07:13

Tgt Ion:	164	Resp:	46057
Ion	Ratio	Lower	Upper
164	100		
129	104.1	67.4	125.2
131	98.6	65.9	122.5
166	134.5	88.6	164.6





#52

Ethylbenzene

Concen: 114.809 ug/L

RT: 9.24 min Scan# 2536

Delta R.T. -0.00 min

Lab File: VU030841.D

Acq: 07 Apr 2019 07:13

Instrument :

MSVOA_U

ClientSampleId :

E3YE7

Tot Ion: 91 Resp: 2001361

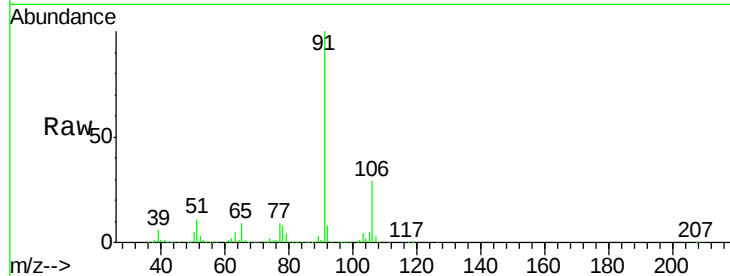
Ion Ratio Lower Upper

91 100

106 29.0 20.4 37.8

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Abundance Ion 91.00 (90.70 to 91.70): VU030841.D (-2444) (-)

Ion 106.00 (105.70 to 106.70): VU030841.D (-2444) (-)

2500000

2000000

1500000

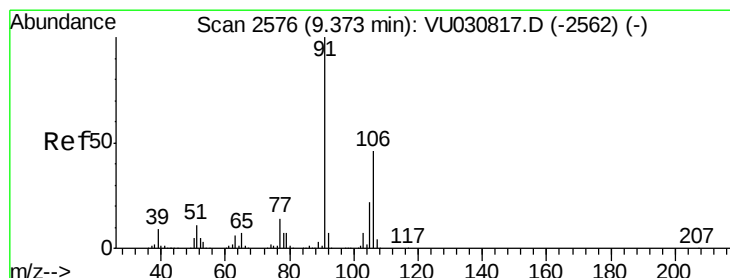
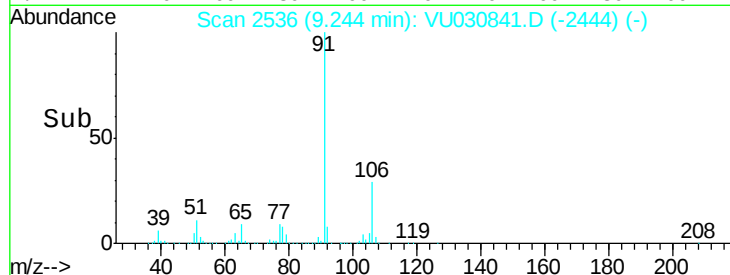
1000000

500000

0

9.15 9.20 9.25 9.30 9.35

Time-->



#53

m,p-Xylene

Concen: 297.732 ug/L

RT: 9.37 min Scan# 2575

Delta R.T. -0.00 min

Lab File: VU030841.D

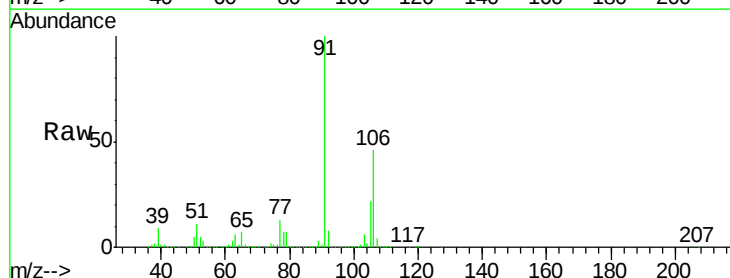
Acq: 07 Apr 2019 07:13

Tgt Ion: 106 Resp: 1810130

Ion Ratio Lower Upper

106 100

91 218.9 148.0 274.8



Abundance Ion 106.00 (105.70 to 106.70): VU030841.D (-2483) (-)

Ion 91.00 (90.70 to 91.70): VU030841.D (-2483) (-)

2500000

2000000

1500000

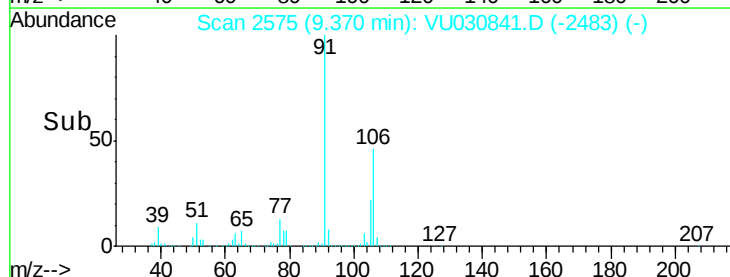
1000000

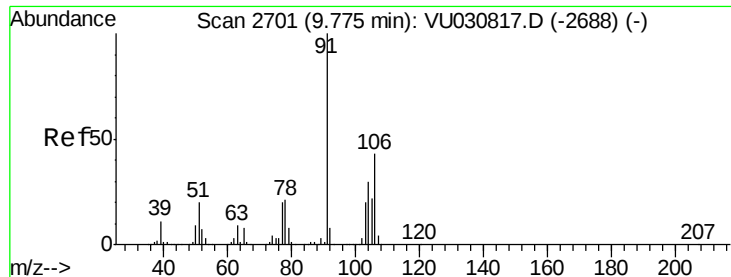
500000

0

9.30 9.40 9.50

Time-->





#54

o-xylene

Concen: 301.030 ug/L

RT: 9.77 min Scan# 2701

Delta R.T. -0.00 min

Lab File: VU030841.D

Acq: 07 Apr 2019 07:13

Instrument :
MSVOA_U
ClientSampleId :
E3YE7

Tot Ion:106 Resp: 1820456

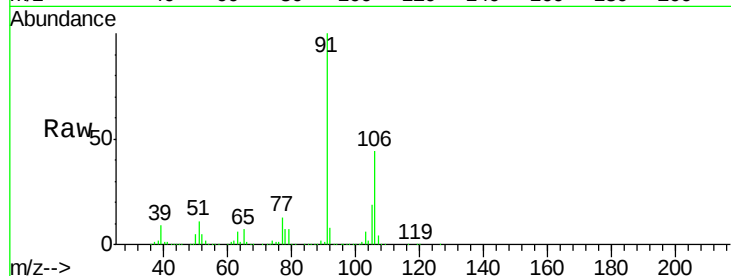
Ion Ratio Lower Upper

106 100

91 229.4 156.7 290.9

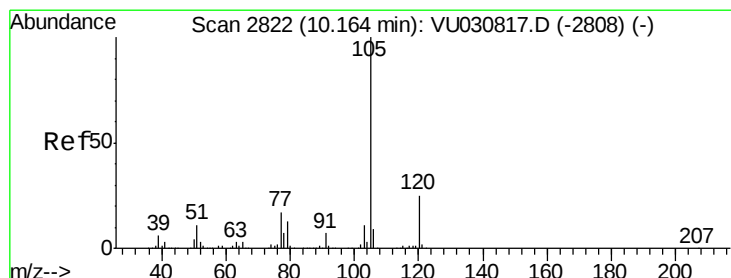
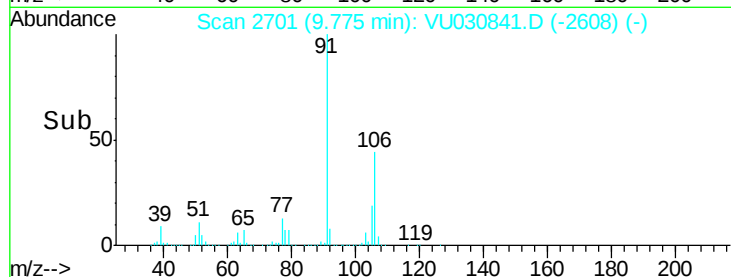
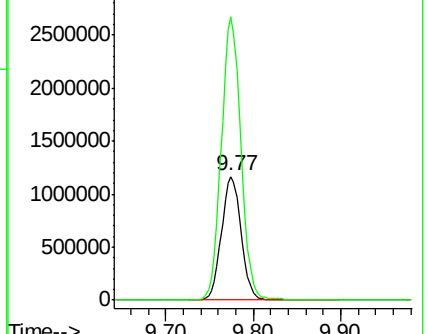
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Abundance Ion 106.00 (105.70 to 106.70): V

Ion 91.00 (90.70 to 91.70): VU0



#56

Isopropylbenzene

Concen: 19.215 ug/L

RT: 10.16 min Scan# 2822

Delta R.T. -0.00 min

Lab File: VU030841.D

Acq: 07 Apr 2019 07:13

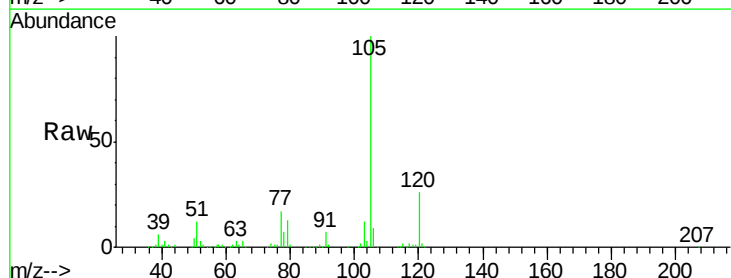
Tgt Ion:105 Resp: 305942

Ion Ratio Lower Upper

105 100

120 25.1 20.4 30.6

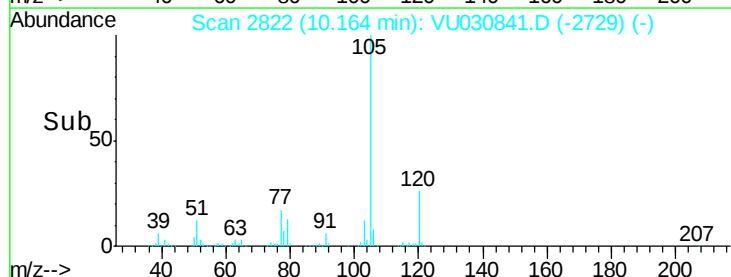
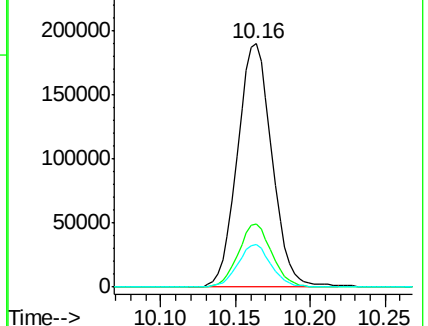
77 16.9 13.4 20.2

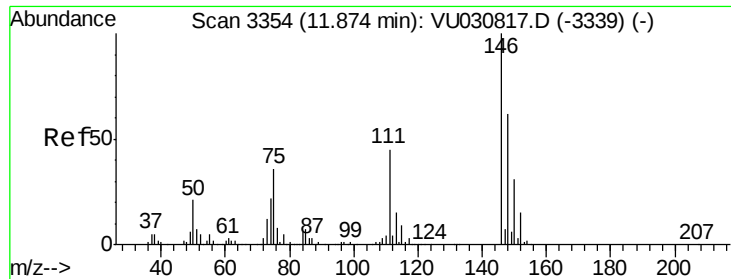


Abundance Ion 105.00 (104.70 to 105.70): V

Ion 120.00 (119.70 to 120.70): V

Ion 77.00 (76.70 to 77.70): VU0





#65
 1,2-Dichlorobenzene
 Concen: 21.931 ug/L
 RT: 11.87 min Scan# 3354
 Delta R.T. -0.00 min
 Lab File: VU030841.D
 Acq: 07 Apr 2019 07:13

Instrument :
 MSVOA_U
 ClientSampleId :
 E3YE7

Tot Ion:	146	Resp:	161919
Ion Ratio	Lower	Upper	
146	100		
111	44.9	34.9	52.3
148	64.4	50.4	75.6

Manual Integrations
 APPROVED

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