

Data Path : Z:\VOASRV\HPCHEM1\MSVOA U\DATA\U030819\
 Data File : VU029846.D
 Acq On : 07 Mar 2019 10:49
 Operator : JC/SP
 Sample : MDL03
 Misc : 25.0mL/MSVOA U/WATER
 ALS Vial : 4 Sample Multiplier: 1

Instrument :
 MSVOA_U
 ClientSampleId :
 MDL03

Manual Integrations
 APPROVED

MMDadoda
 3/11/2019 6:48:14 PM

Quant Time: Mar 08 22:24:47 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA U\METHOD\524U030719DW.M
 Quant Title : METHOD 524.2 VOLATILES DRINKING WATER
 QLast Update : Fri Mar 08 00:30:10 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
-----	-----	-----	-----	-----	-----	-----
1) Fluorobenzene	5.74	96	56895	1.00	ug/l	0.00
System Monitoring Compounds						
57) 4-Bromofluorobenzene	10.31	95	18113	0.89	ug/l	0.00
Spiked Amount 1.000			Recovery	=	89.00%	
68) 1,2-Dichlorobenzene-d4	11.86	152	21908	0.92	ug/l	0.00
Spiked Amount 1.000			Recovery	=	92.00%	
Target Compounds						
					Ovalue	
3) Chloromethane	1.33	50	4630	0.273	ug/l	92
4) Vinyl Chloride	1.40	62	4499	0.236	ug/l	93
5) Bromomethane	1.63	94	4154	0.319	ug/l	94
6) Chloroethane	1.70	64	2773	0.242	ug/l	92
7) Trichlorofluoromethane	1.88	101	5500	0.212	ug/l	96
9) 1,1-Dichloroethene	2.28	96	3666	0.248	ug/l	87
10) Iodomethane	2.41	142	3357	0.773	ug/l	97
11) Allyl Chloride	2.59	41	4891	0.235	ug/l	91
12) Acrylonitrile	2.94	53	1815	0.562	ug/l #	88
13) Acetone	2.32	43	3859	1.444	ug/l	94
14) Carbon Disulfide	2.47	76	12219	0.255	ug/l	98
15) Methylene Chloride	2.69	84	8075	0.455	ug/l	94
16) trans-1,2-Dichloroethene	2.98	96	4185	0.250	ug/l	92
17) 1,1-Dichloroethane	3.44	63	6793	0.243	ug/l	94
18) 2-Butanone	4.29	43	2919	0.804	ug/l	100
19) Cyclohexane	4.99	56	4670m	0.215	ug/l	
21) 2,2-Dichloropropane	4.22	77	5439	0.238	ug/l #	68
22) cis-1,2-Dichloroethene	4.22	96	4038m	0.228	ug/l	
23) Diethyl Ether	2.10	59	2777	0.250	ug/l #	89
24) tert-Butyl Alcohol	2.83	59	3653	3.192	ug/l	98
25) Methyl tert-Butyl Ether	3.00	73	8922	0.239	ug/l #	88
26) Bromochloromethane	4.54	128	1944	0.247	ug/l	98
27) Chloroform	4.67	83	6971	0.246	ug/l	85
28) 1,1,1-Trichloroethane	4.91	97	5385	0.224	ug/l	99
29) 1,1-Dichloropropene	5.13	75	4733	0.222	ug/l	98
30) Carbon Tetrachloride	5.13	117	4409	0.210	ug/l #	91
31) Isopropyl Ether	3.57	45	9286	0.241	ug/l	97
32) Ethyl-t-butyl ether	4.06	59	8928	0.238	ug/l	100
33) Tert-Amyl methyl ether	5.58	73	7652	0.221	ug/l #	87
34) Propionitrile	4.34	54	863m	0.799	ug/l	
35) Benzene	5.39	78	14300	0.227	ug/l	96
36) 1,2-Dichloroethane	5.41	62	3988	0.232	ug/l #	85
37) Trichloroethene	6.18	130	4343	0.237	ug/l	89
38) 1,2-Dichloropropane	6.43	63	3353	0.211	ug/l	100
39) Methacrylonitrile	4.56	41	1070m	0.235	ug/l	
41) Tetrahydrofuran	4.66	42	1201	0.505	ug/l #	66
42) 1-Chlorobutane	5.06	56	5993	0.220	ug/l	76
43) Dibromomethane	6.56	93	1983	0.240	ug/l	98
44) Bromodichloromethane	6.76	83	4153	0.205	ug/l	93
45) 4-Methyl-2-Pentanone	7.47	43	9509	1.105	ug/l	93
46) t-1,4-Dichloro-2-butene	10.51	75	1074m	0.299	ug/l	

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 Quant Title : METHOD 524.2 VOLATILES DRINKING WATER
 QLast Update : Fri Mar 08 00:30:10 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)

47) Methyl methacrylate	6.63	69	2603	0.368	ug/l	87
49) Toluene	7.64	92	8189	0.212	ug/l	97
50) t-1,3-Dichloropropene	7.89	75	3677	0.207	ug/l	98
51) cis-1,3-Dichloropropene	7.27	75	4402	0.200	ug/l #	89
52) 1,1,2-Trichloroethane	8.07	97	2806	0.230	ug/l	95
54) 2-Hexanone	8.38	43	6028	1.009	ug/l	94
55) Dibromochloromethane	8.48	129	2912	0.201	ug/l	91
56) 1,2-Dibromoethane	8.59	107	2554	0.221	ug/l	95
58) Tetrachloroethene	8.22	164	3885	0.207	ug/l	99
59) Chlorobenzene	9.12	112	9967	0.225	ug/l	90
62) Hexachloroethane	12.14	117	2348	0.201	ug/l	92
63) Ethyl Benzene	9.25	91	14808	0.204	ug/l	96
64) m/p-Xylenes	9.38	106	10632	0.370	ug/l	97
67) Bromoform	9.96	173	1775	0.209	ug/l #	90
70) 1,1,2,2-Tetrachloroethane	10.46	83	3091	0.208	ug/l #	96
71) 1,2,3-Trichloropropane	10.49	75	2385m	0.216	ug/l	
74) 2-Chlorotoluene	10.66	126	3659	0.201	ug/l	90
85) 1,2-Dichlorobenzene	11.88	146	7300	0.202	ug/l	90
89) Naphthalene	13.75	128	5594m	0.577	ug/l	

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

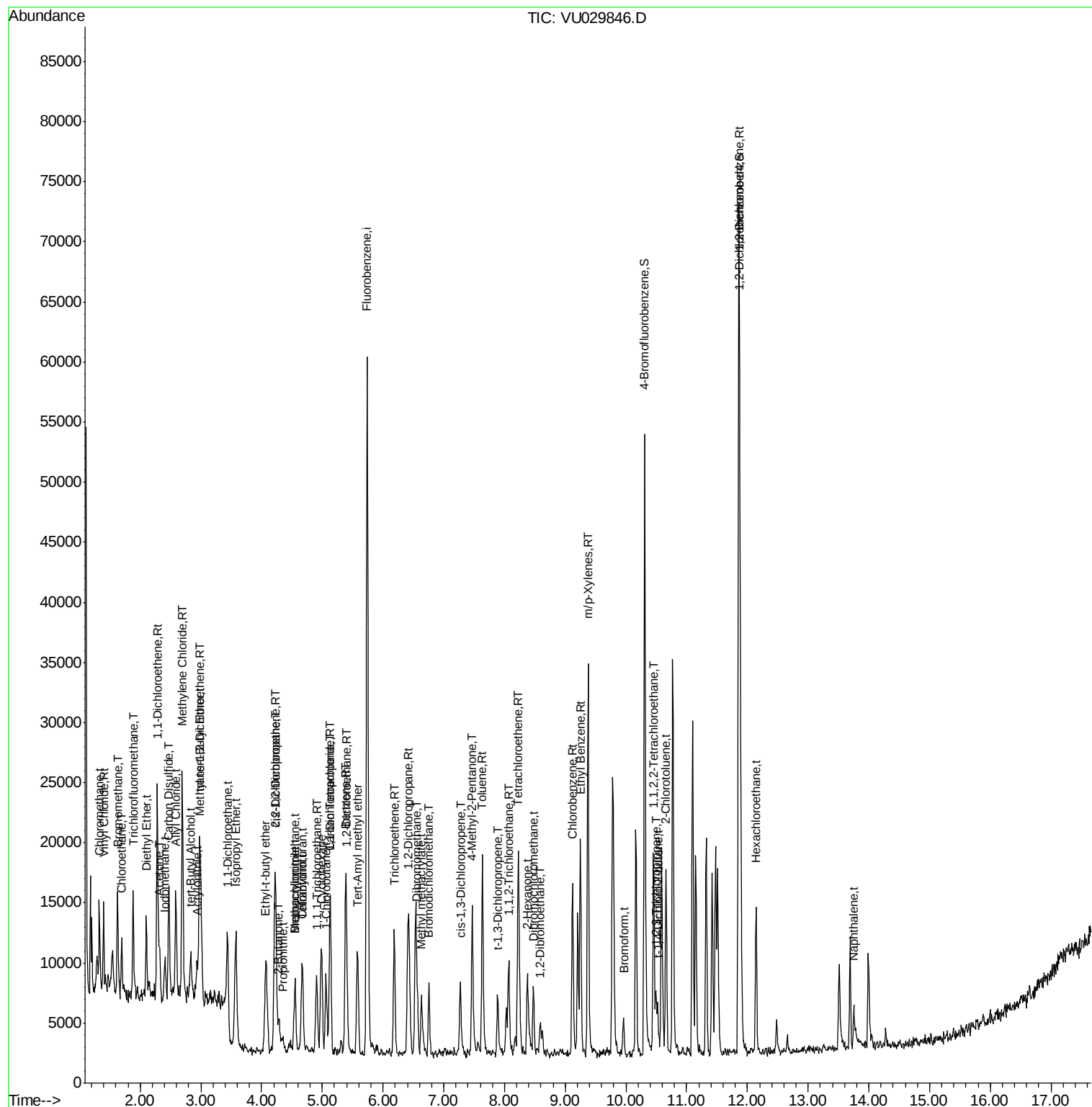
Data Path : Z:\V0ASRV\HPCHEM1\MSVOA U\DATA\VU030819\
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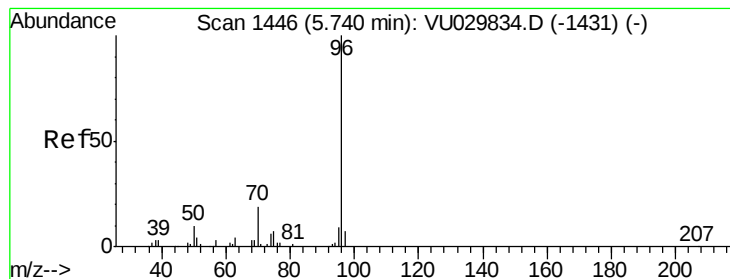
Instrument :
MSVOA_U
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MDL03

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#1

Fluorobenzene

Concen: 1.000 ug/l

RT: 5.74 min Scan# 1446

Delta R.T. -0.00 min

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Instrument :

MSVOA_U

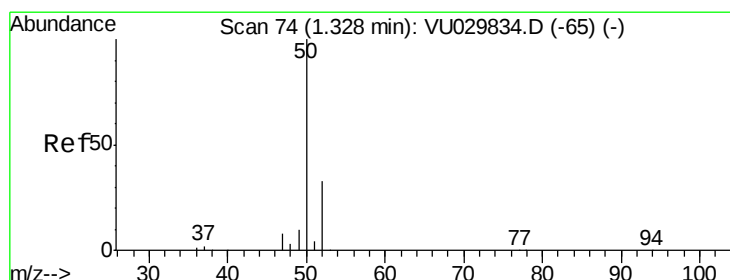
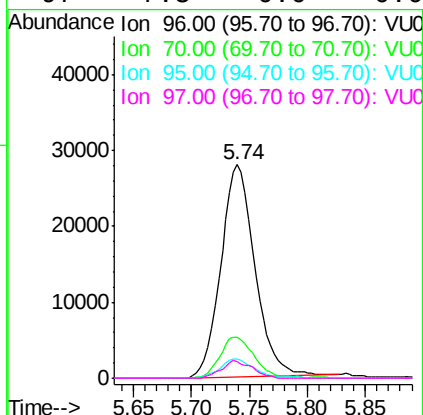
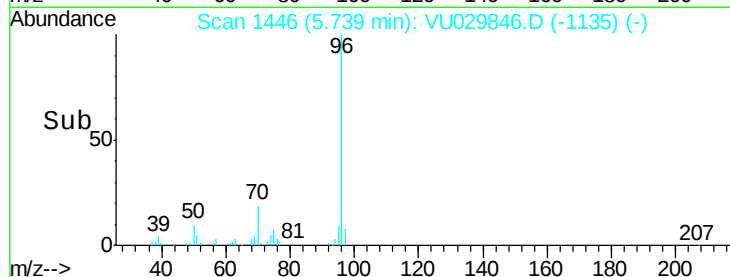
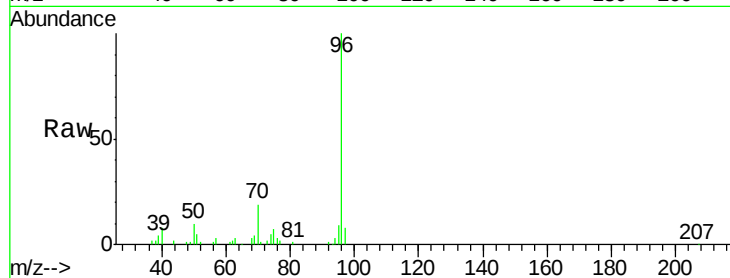
ClientSampleId :

MDL03

Tot Ion:	96	Resp:	56895
Ion Ratio	Lower	Upper	
96	100		
70	19.8	14.4	21.6
95	9.2	7.0	10.6
97	7.3	0.0	0.0#

Manual Integrations
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#3

Chloromethane

Concen: 0.273 ug/l

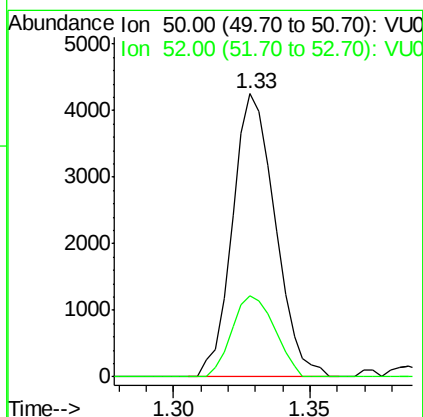
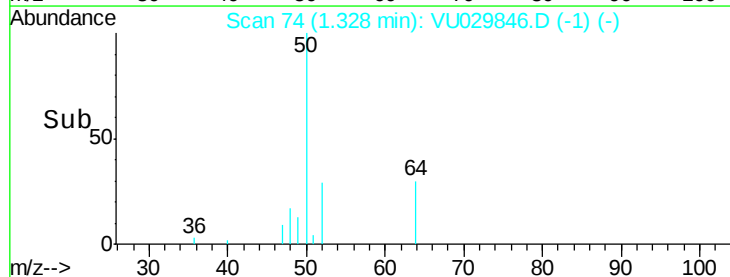
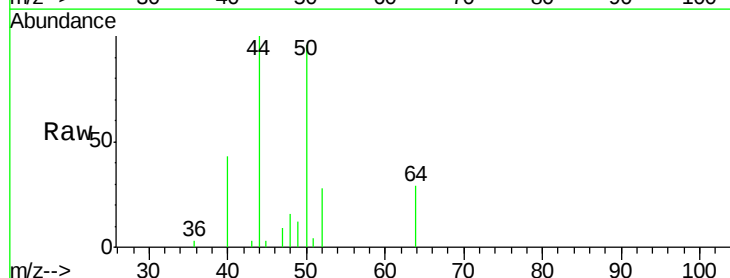
RT: 1.33 min Scan# 74

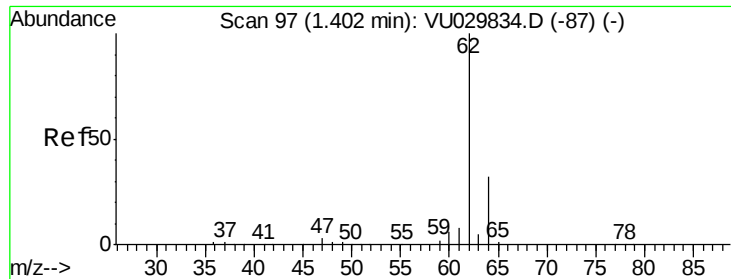
Delta R.T. -0.00 min

Lab File: VU029846.D

Acq: 07 Mar 2019 10:49

Tgt Ion:	50	Resp:	4630
Ion Ratio	Lower	Upper	
50	100		
52	28.8	26.5	39.7





#4

Vinyl Chloride

Concen: 0.236 ug/l

RT: 1.40 min Scan# 96

Delta R.T. -0.00 min

Lab File: VU029846.D

Acq: 07 Mar 2019 10:49

Instrument :

MSVOA_U

ClientSampleId :

MDL03

Tot Ion: 62 Resp: 4499

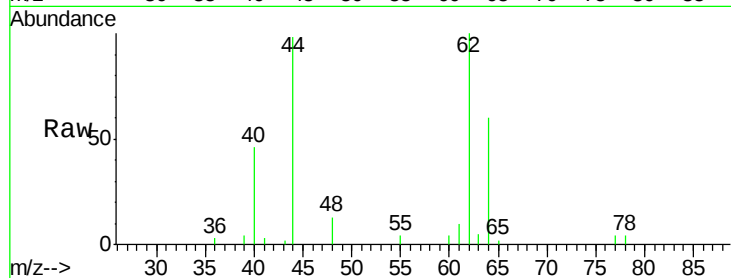
Ion Ratio Lower Upper

62 100

64 36.3 25.7 38.5

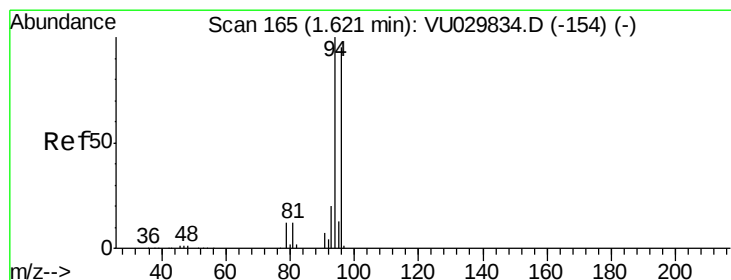
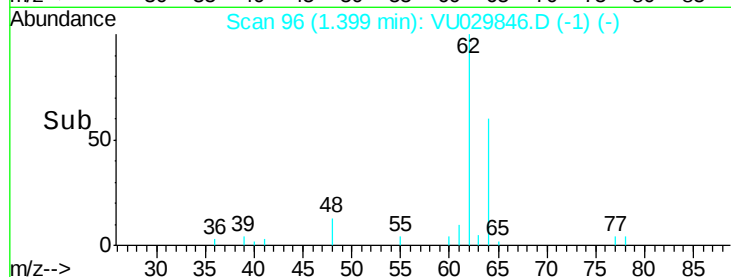
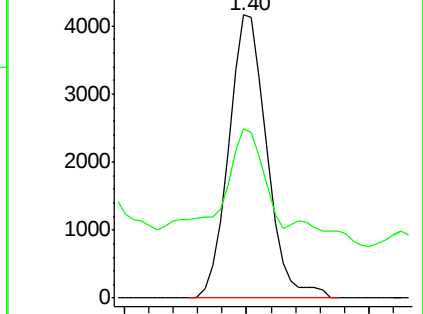
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Abundance Ion 62.00 (61.70 to 62.70): VU0

Ion 64.00 (63.70 to 64.70): VU0



#5

Bromomethane

Concen: 0.319 ug/l

RT: 1.63 min Scan# 167

Delta R.T. 0.01 min

Lab File: VU029846.D

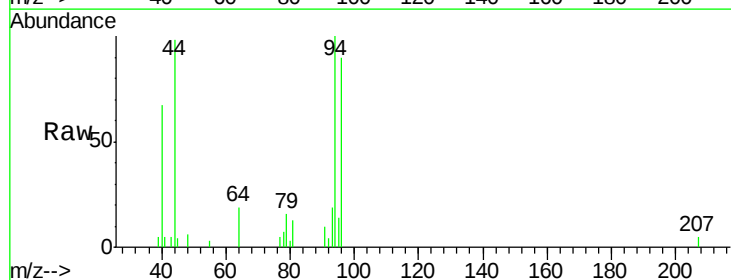
Acq: 07 Mar 2019 10:49

Tgt Ion: 94 Resp: 4154

Ion Ratio Lower Upper

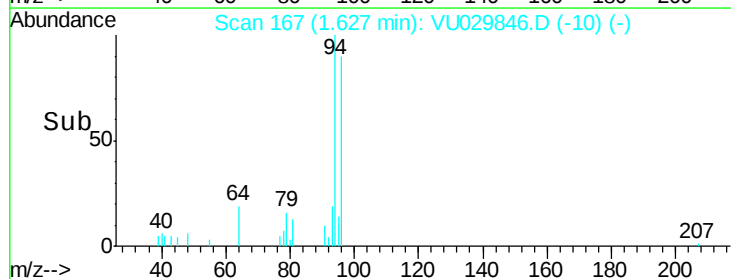
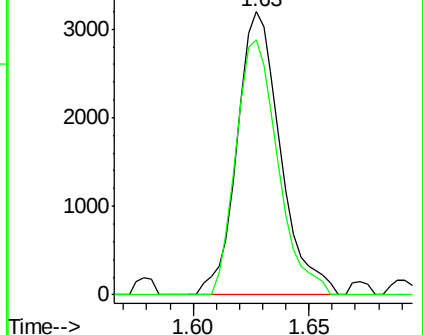
94 100

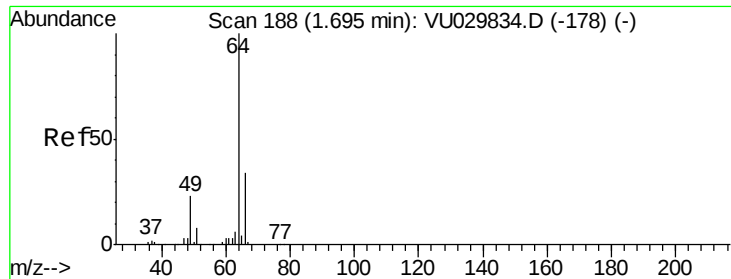
96 90.1 76.4 114.6



Abundance Ion 94.00 (93.70 to 94.70): VU0

Ion 96.00 (95.70 to 96.70): VU0





#6

Chloroethane

Concen: 0.242 ug/l

RT: 1.70 min Scan# 189

Delta R.T. 0.00 min

Lab File: VU029846.D

Acq: 07 Mar 2019 10:49

Instrument :

MSVOA_U

ClientSampled :

MDL03

Tot Ion: 64 Resp: 2773

Ion Ratio Lower Upper

64 100

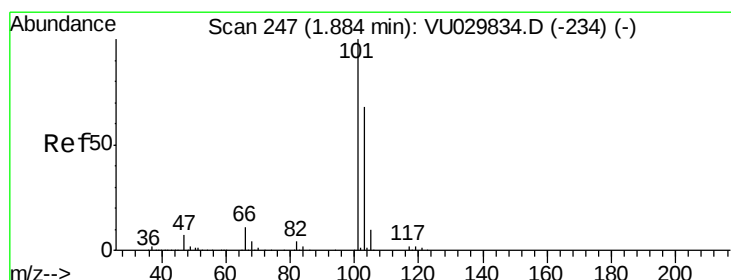
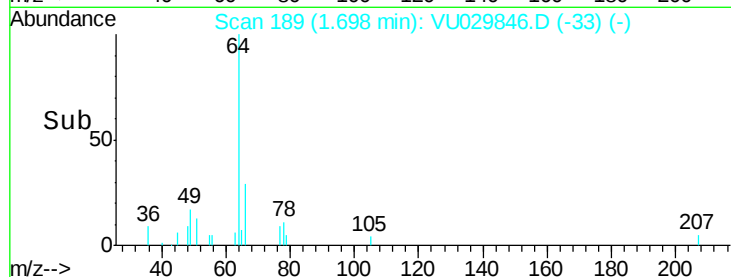
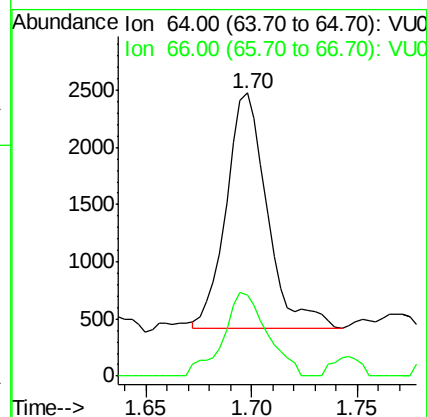
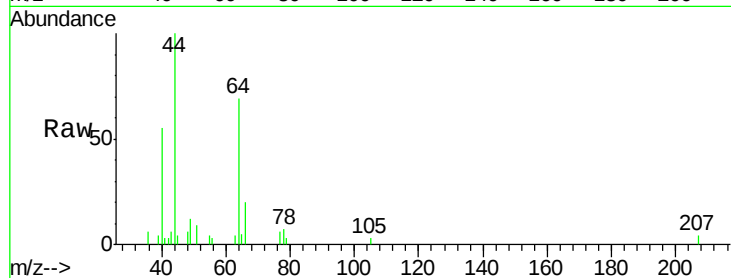
66 29.2 27.3 40.9

Manual Integrations

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#7

Trichlorofluoromethane

Concen: 0.212 ug/l

RT: 1.88 min Scan# 247

Delta R.T. -0.00 min

Lab File: VU029846.D

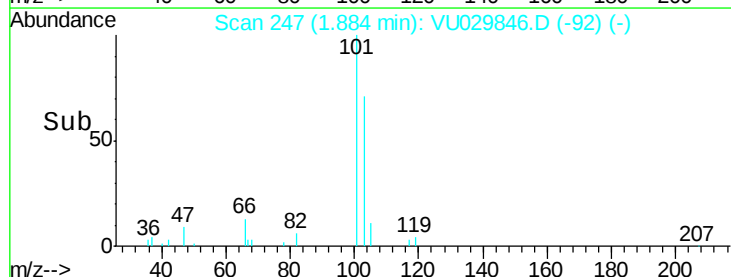
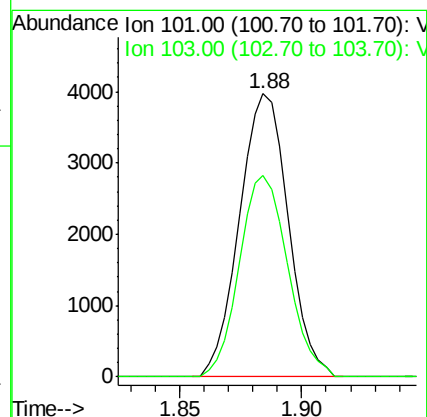
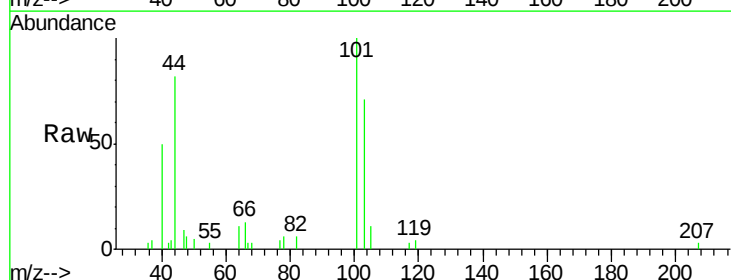
Acq: 07 Mar 2019 10:49

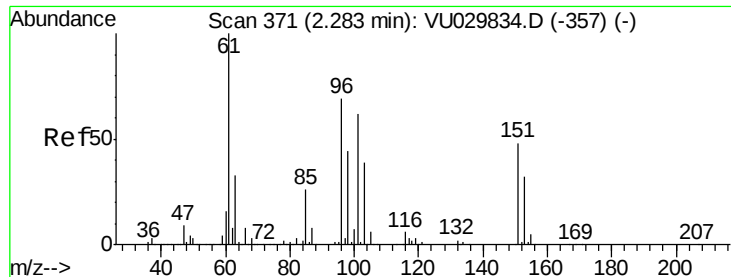
Tgt Ion: 101 Resp: 5500

Ion Ratio Lower Upper

101 100

103 71.2 54.2 81.2





#9

1,1-Dichloroethene

Concen: 0.248 ug/l

RT: 2.28 min Scan# 371

Delta R.T. -0.00 min

Lab File: VU029846.D

Acq: 07 Mar 2019 10:49

Instrument :

MSVOA_U

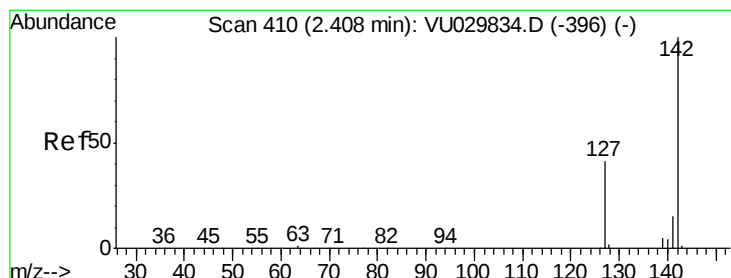
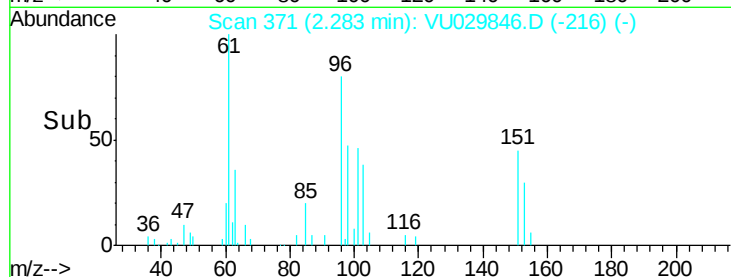
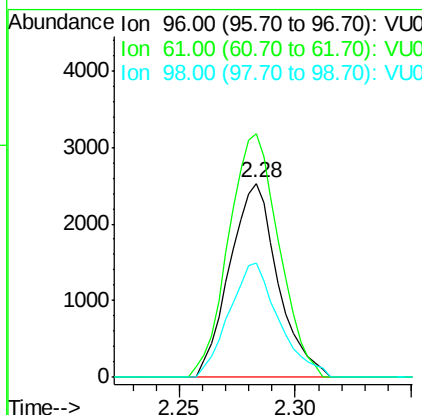
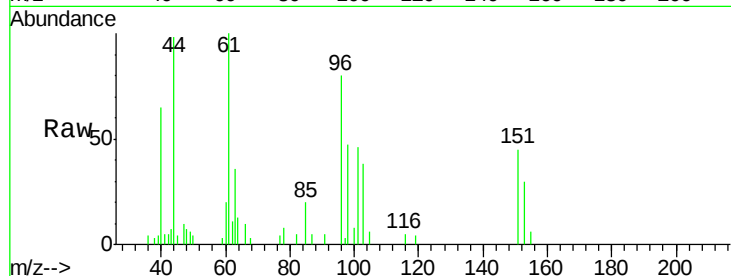
ClientSampled :

MDL03

Tot Ion:	96	Resp:	3666
Ion	Ratio	Lower	Upper
96	100		
61	125.6	0.0	435.3
98	59.1	0.0	128.6

Manual Integrations
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#10

Iodomethane

Concen: 0.773 ug/l

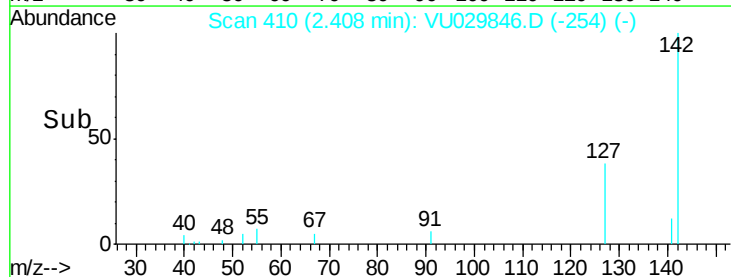
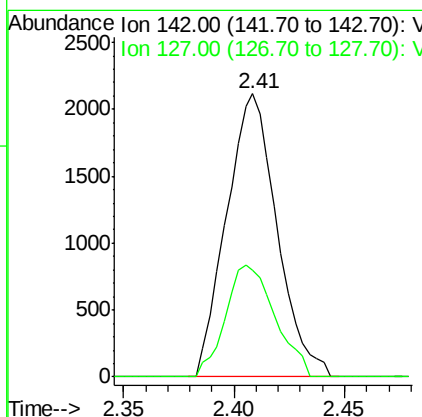
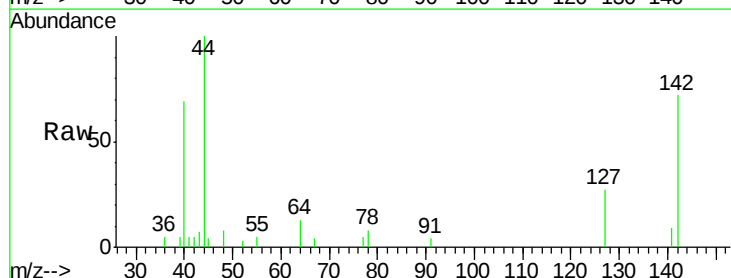
RT: 2.41 min Scan# 410

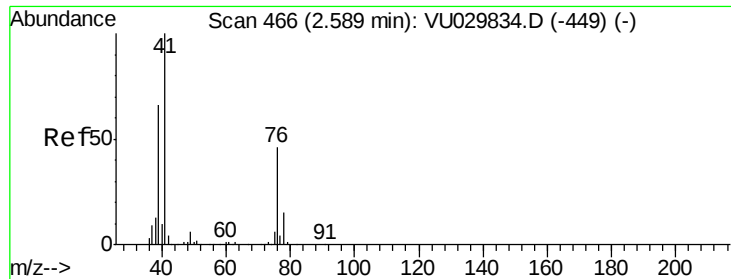
Delta R.T. 0.00 min

Lab File: VU029846.D

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Tgt Ion:	142	Resp:	3357
Ion	Ratio	Lower	Upper
142	100		
127	38.8	32.3	48.5





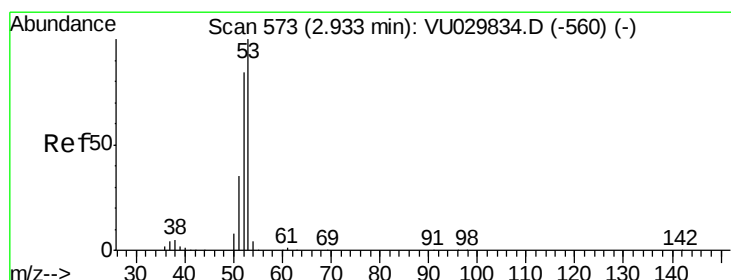
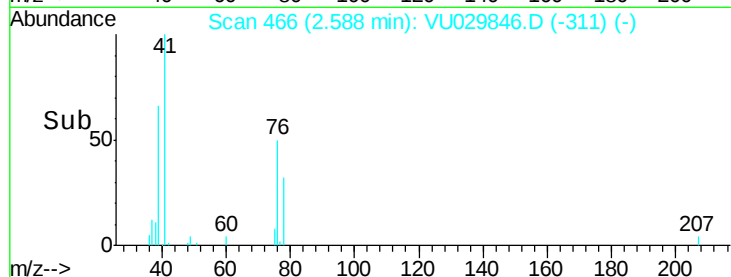
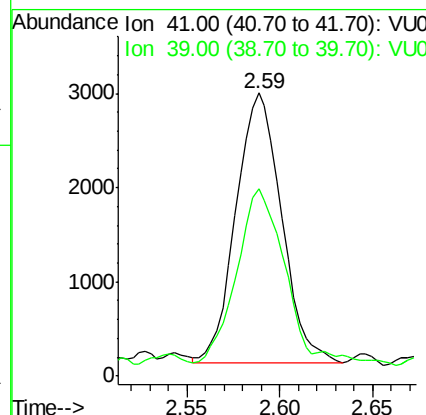
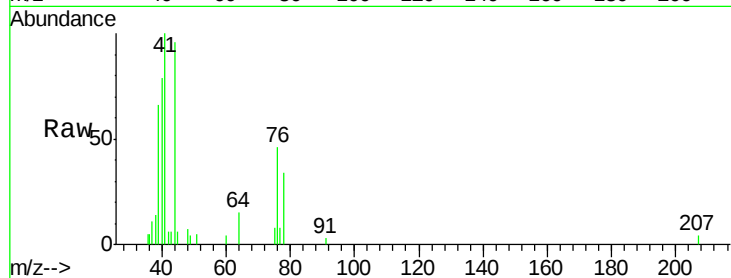
#11
Allvl Chloride
Concen: 0.235 ug/l
RT: 2.59 min Scan# 466
Delta R.T. -0.00 min
Lab File: VU029846.D
Acq: 07 Mar 2019 10:49

Instrument :
MSVOA_U
ClientSampled :
MDL03

Tot Ion	Ratio	Lower	Upper
41	100		
39	71.7	51.6	77.4

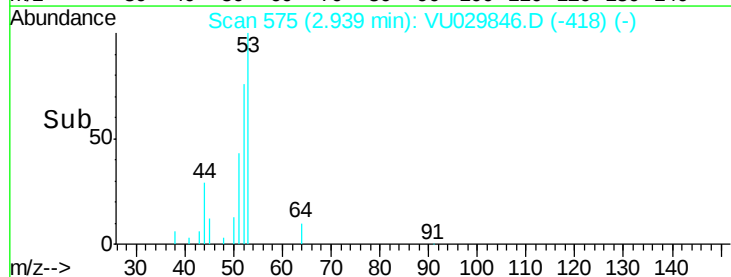
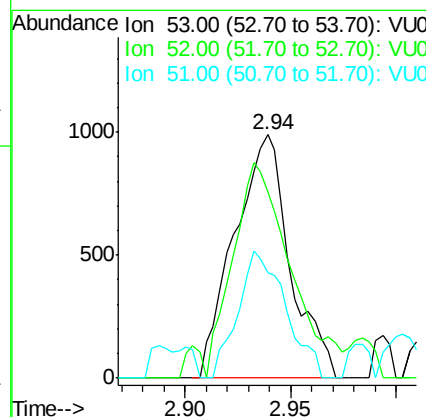
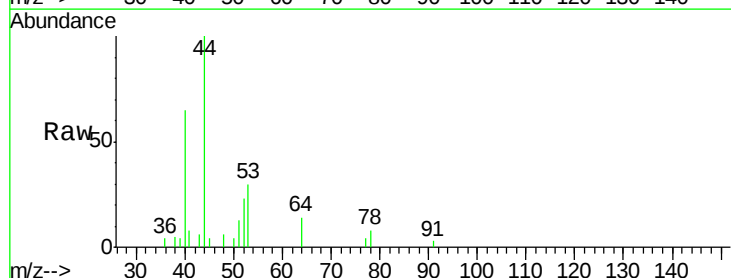
Manual Integrations
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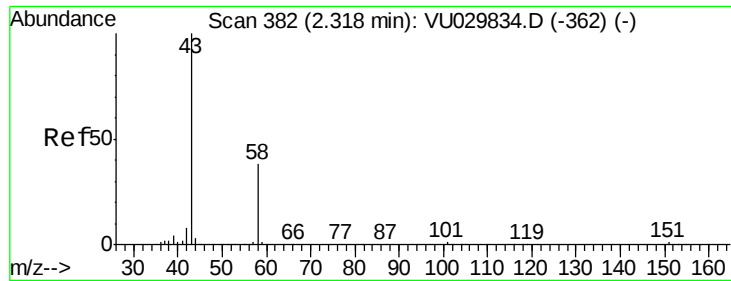
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#12
Acrylonitrile
Concen: 0.562 ug/l
RT: 2.94 min Scan# 575
Delta R.T. 0.01 min
Lab File: VU029846.D
Acq: 07 Mar 2019 10:49

Tgt Ion	Ratio	Lower	Upper
53	100		
52	92.2	66.5	99.7
51	44.7	28.6	42.8#





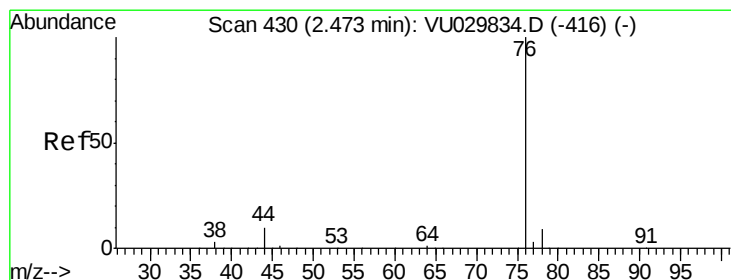
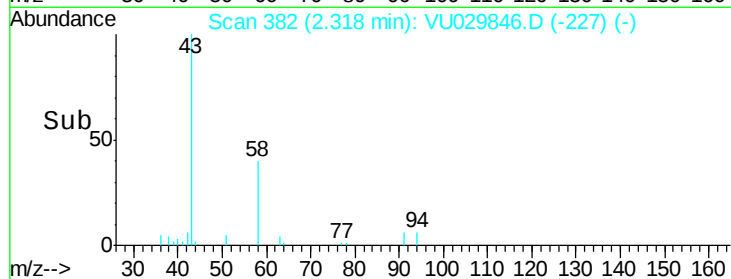
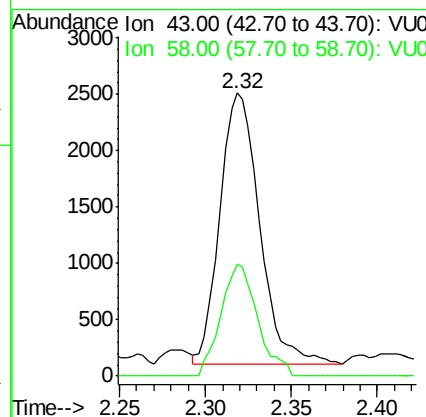
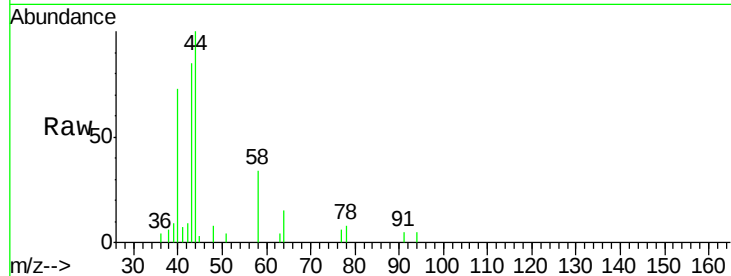
#13
Acetone
Concen: 1.444 ug/l
RT: 2.32 min Scan# 382
Delta R.T. -0.00 min
Lab File: VU029846.D
Acq: 07 Mar 2019 10:49

Instrument :
MSVOA_U
ClientSampled :
MDL03

Tot Ion: 43 Resp: 3859
Ion Ratio Lower Upper
43 100
58 41.6 30.2 45.2

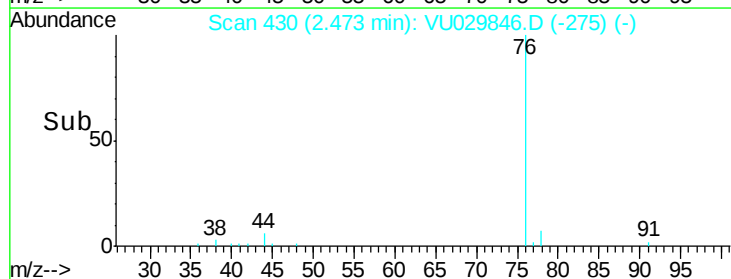
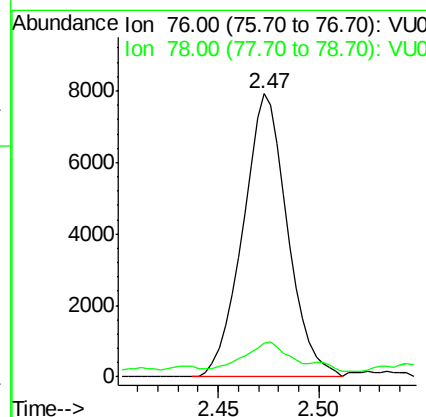
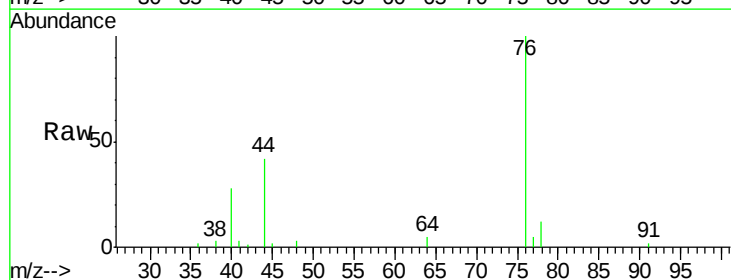
Manual Integrations
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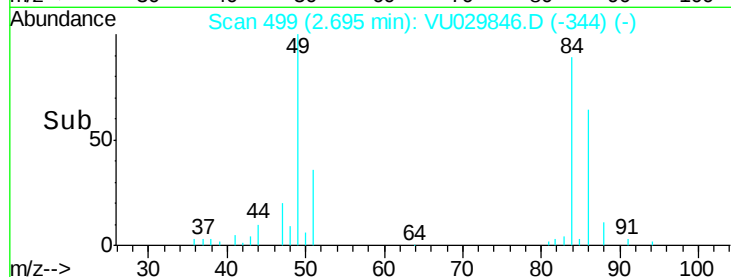
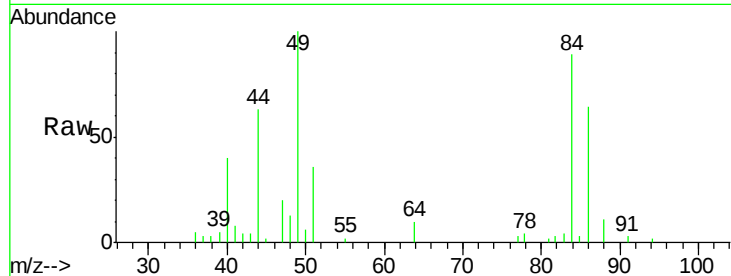
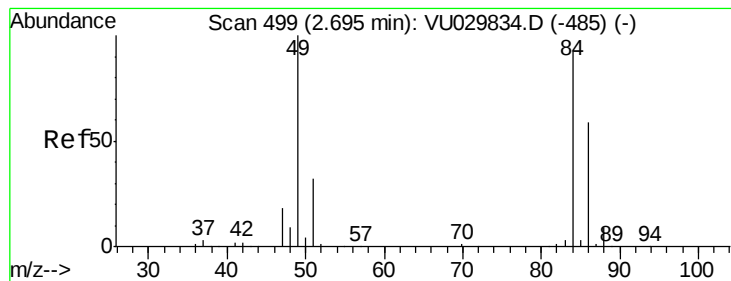
MMDadoda
3/11/2019 6:48:14 PM



#14
Carbon Disulfide
Concen: 0.255 ug/l
RT: 2.47 min Scan# 430
Delta R.T. -0.00 min
Lab File: VU029846.D
Acq: 07 Mar 2019 10:49

Tgt Ion: 76 Resp: 12219
Ion Ratio Lower Upper
76 100
78 9.6 7.2 10.8





#15

Methylene Chloride

Concen: 0.455 ug/l

RT: 2.69 min Scan# 499

Delta R.T. -0.00 min

Lab File: VU029846.D

Acq: 07 Mar 2019 10:49

Tot Ion:	84	Resp:	8075
Ion	Ratio	Lower	Upper
84	100		
49	112.0	87.2	130.8
51	38.4	0.0	69.0
86	71.7	51.3	76.9

Instrument :

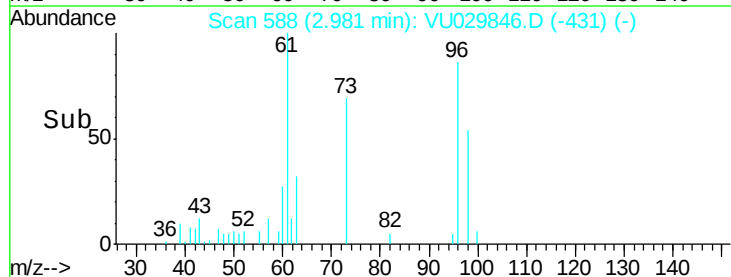
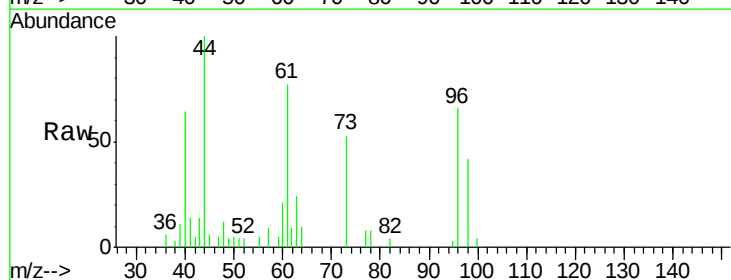
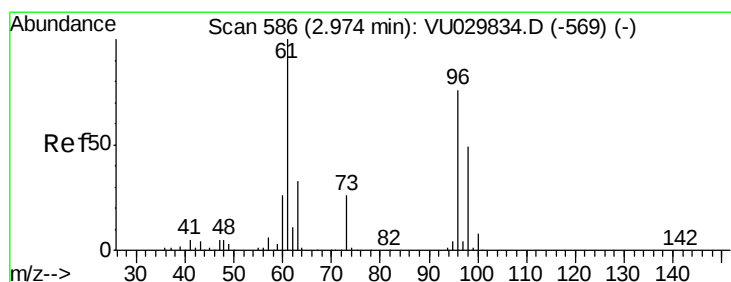
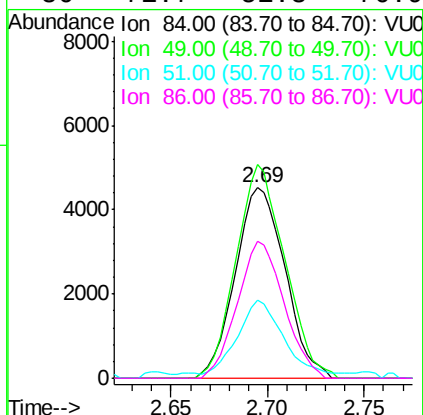
MSVOA_U

ClientSampleId :

MDL03

Manual Integrations
APPROVED

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3/11/2019 6:48:14 PM



#16

trans-1,2-Dichloroethene

Concen: 0.250 ug/l

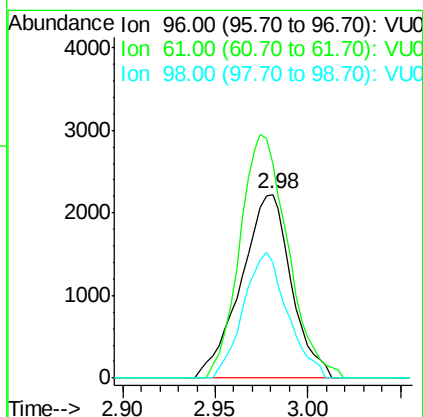
RT: 2.98 min Scan# 588

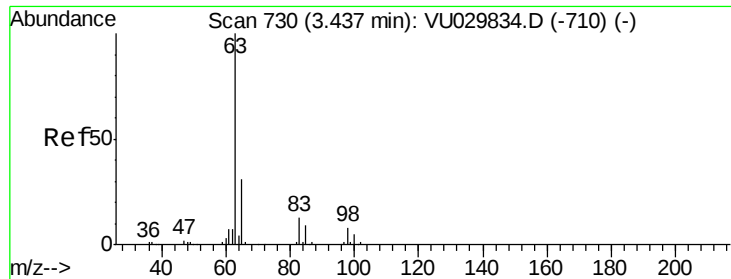
Delta R.T. 0.01 min

Lab File: VU029846.D

Acq: 07 Mar 2019 10:49

Tgt Ion:	96	Resp:	4185
Ion	Ratio	Lower	Upper
96	100		
61	116.6	104.7	157.1
98	63.2	50.9	76.3





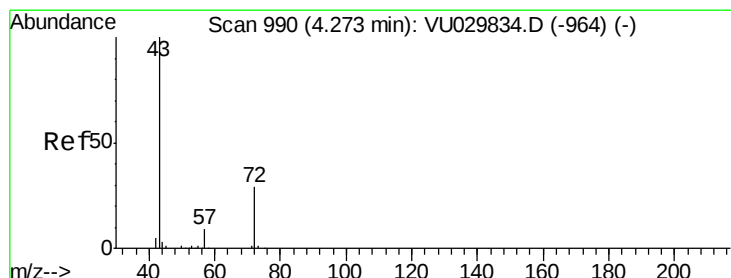
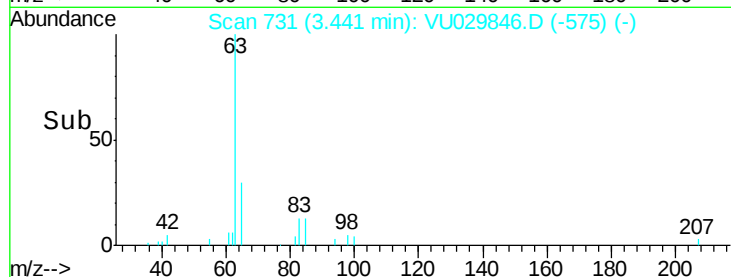
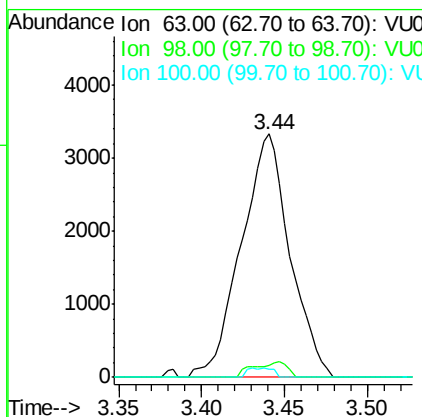
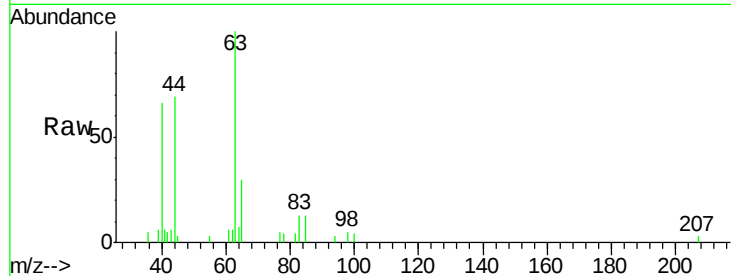
#17
 1,1-Dichloroethane
 Concen: 0.243 ug/l
 RT: 3.44 min Scan# 731
 Delta R.T. 0.00 min
 Lab File: VU029846.D
 Acq: 07 Mar 2019 10:49

Instrument :
 MSVOA_U
 ClientSampleId :
 MDL03

Tot Ion:	63	Resp:	6793
Ion	Ratio	Lower	Upper
63	100		
98	5.0	3.8	11.4
100	3.5	2.4	7.1

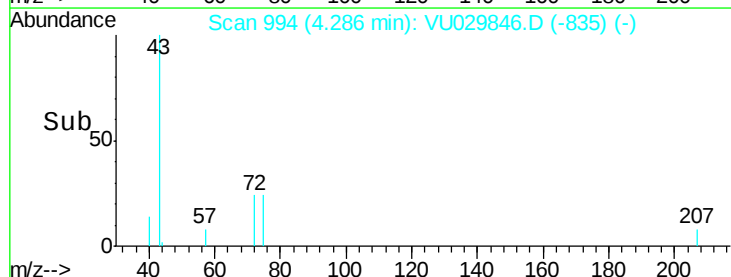
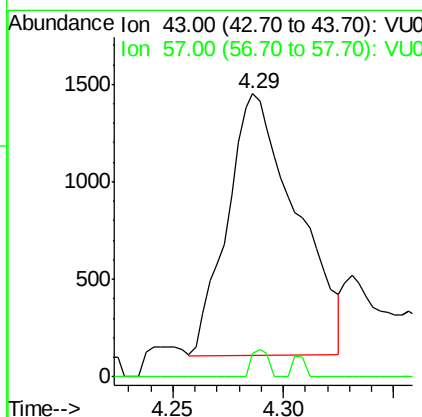
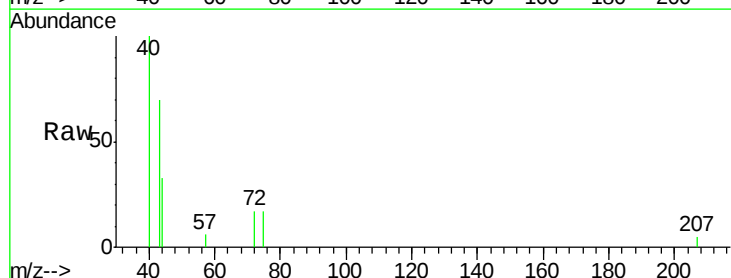
Manual Integrations
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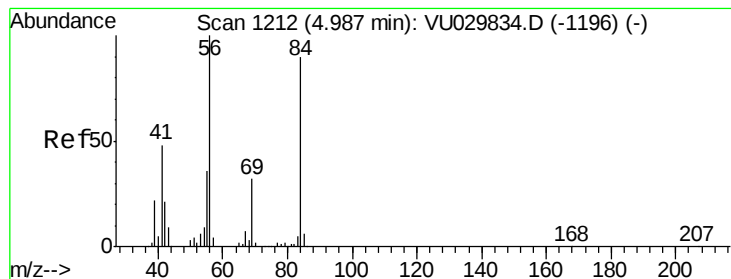
MMDadoda
 3/11/2019 6:48:14 PM



#18
 2-Butanone
 Concen: 0.804 ug/l
 RT: 4.29 min Scan# 994
 Delta R.T. 0.01 min
 Lab File: VU029846.D
 Acq: 07 Mar 2019 10:49

Tgt Ion:	43	Resp:	2919
Ion	Ratio	Lower	Upper
43	100		
57	9.1	0.0	18.6





#19

Cyclohexane

Concen: 0.215 ug/l m

RT: 4.99 min Scan# 1214

Delta R.T. 0.01 min

Lab File: VU029846.D

Acq: 07 Mar 2019 10:49

Instrument :

MSVOA_U

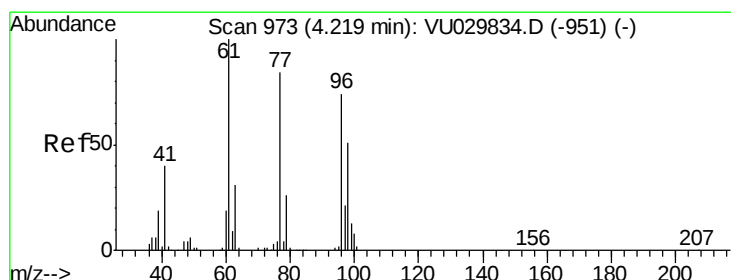
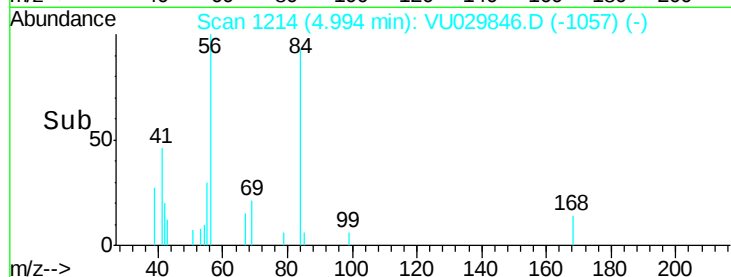
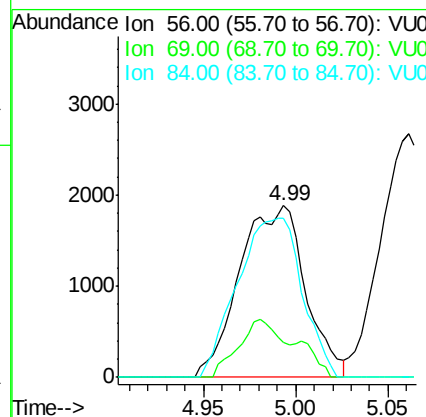
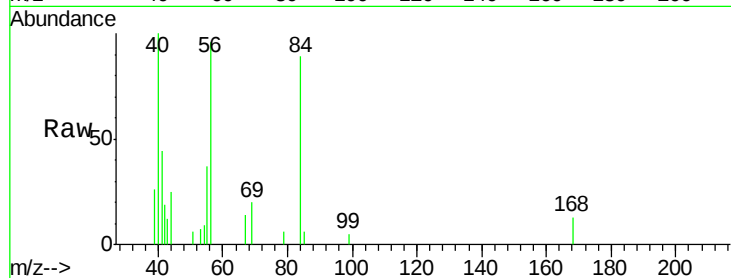
ClientSampleId :

MDL03

Tot Ion	Ratio	Lower	Upper
56	100		
69	21.8	29.4	44.2#
84	91.0	84.6	127.0

Manual Integrations
APPROVED

MMDadoda
3/11/2019 6:48:14 PM



#21

2,2-Dichloropropane

Concen: 0.238 ug/l

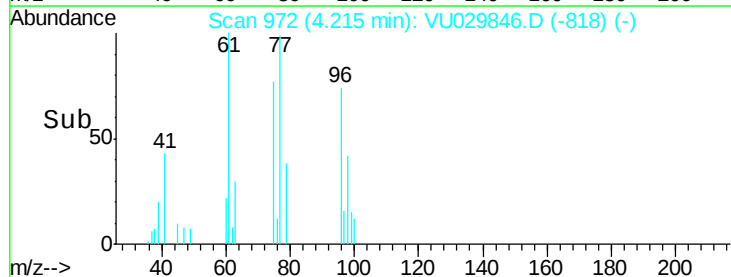
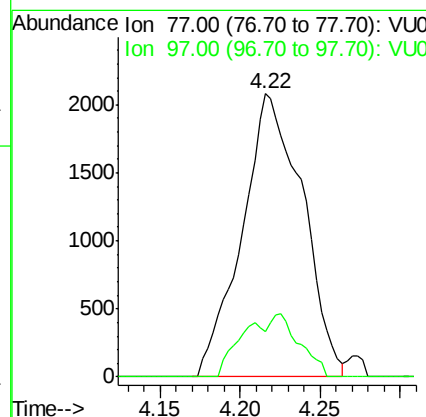
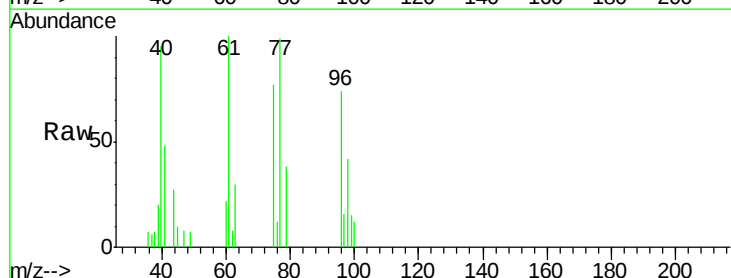
RT: 4.22 min Scan# 972

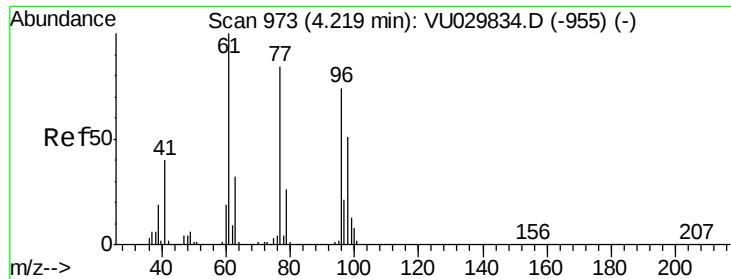
Delta R.T. -0.00 min

Lab File: VU029846.D

Acq: 07 Mar 2019 10:49

Tgt Ion	Ratio	Lower	Upper
77	100		
97	9.2	20.2	30.2#





#22

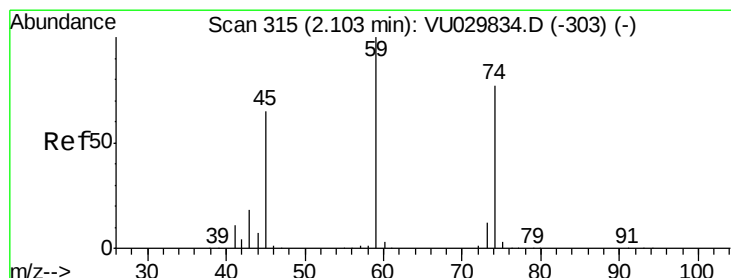
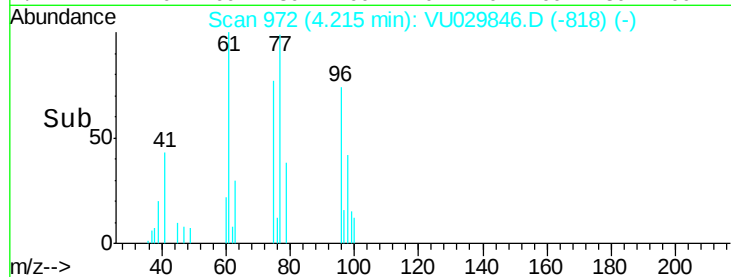
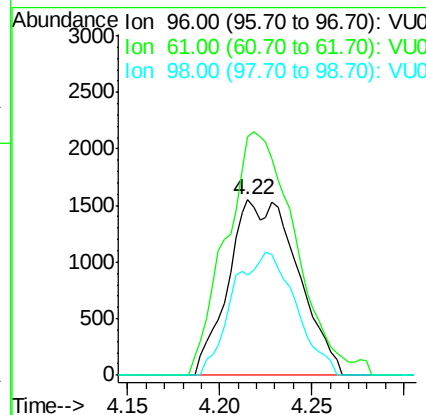
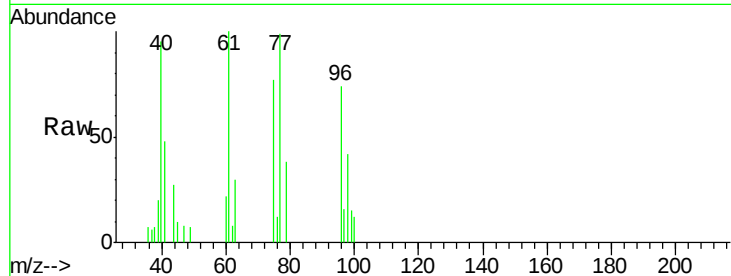
cis-1,2-Dichloroethene
 Concen: 0.228 ug/l m
 RT: 4.22 min Scan# 972
 Delta R.T. -0.00 min
 Lab File: VU029846.D
 Acq: 07 Mar 2019 10:49

Instrument :
 MSVOA_U
 ClientSampleId :
 MDL03

Tot Ion	Ratio	Lower	Upper
96	100		
61	139.4	0.0	339.0
98	63.6	33.1	99.5

Manual Integrations
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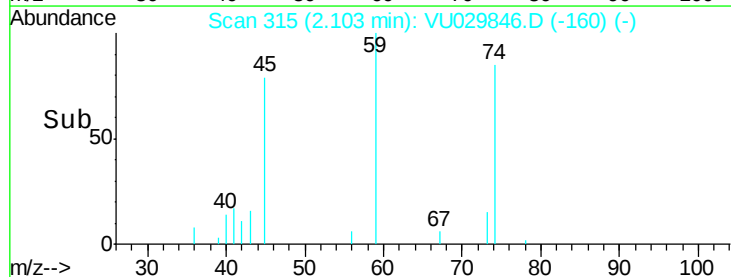
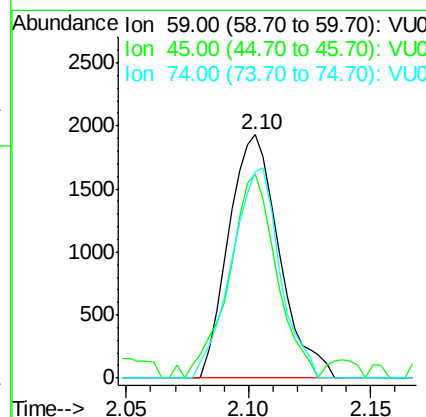
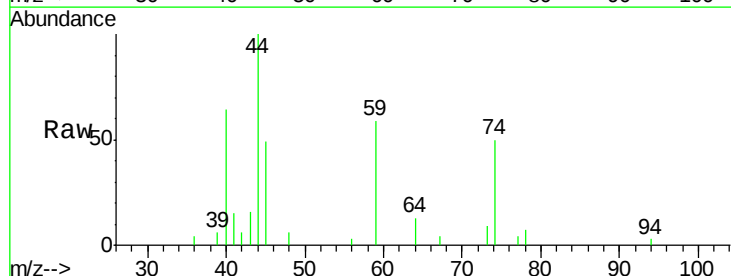
MMDadoda
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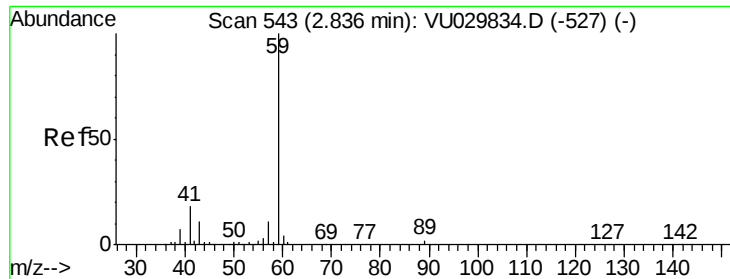


#23

Diethyl Ether
 Concen: 0.250 ug/l
 RT: 2.10 min Scan# 315
 Delta R.T. -0.00 min
 Lab File: VU029846.D
 Acq: 07 Mar 2019 10:49

Tgt Ion	Ratio	Lower	Upper
59	100		
45	79.4	52.7	79.1#
74	82.5	61.8	92.6





#24

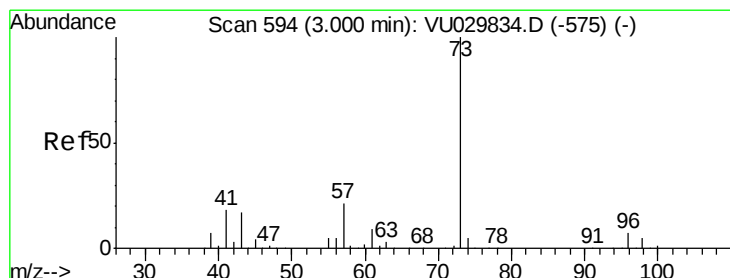
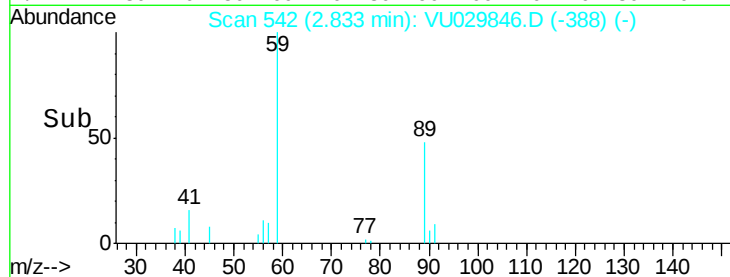
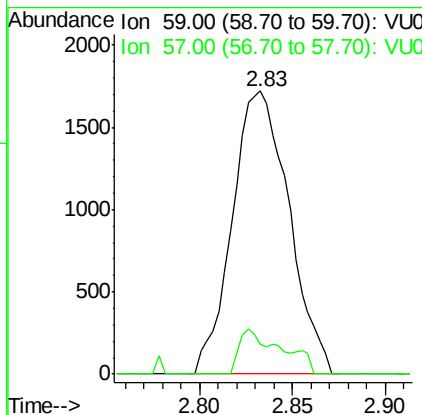
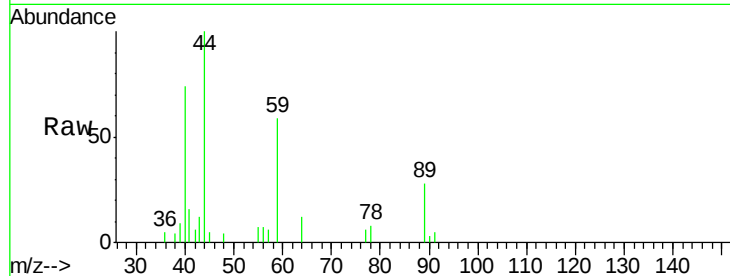
tert-Butyl Alcohol
 Concen: 3.192 ug/l
 RT: 2.83 min Scan# 542
 Delta R.T. -0.00 min
 Lab File: VU029846.D
 Acq: 07 Mar 2019 10:49

Instrument :
 MSVOA_U
 ClientSampleId :
 MDL03

Tot Ion	Ratio	Lower	Upper
59	100		
57	9.8	8.5	12.7

Manual Integrations
 APPROVED

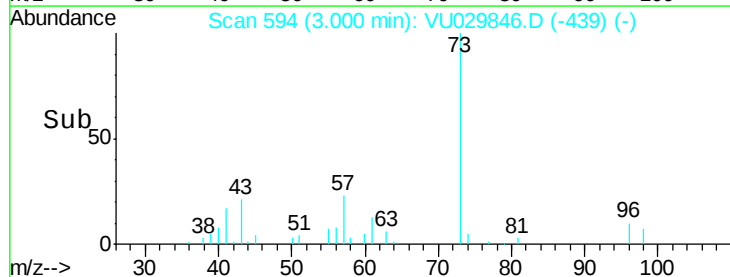
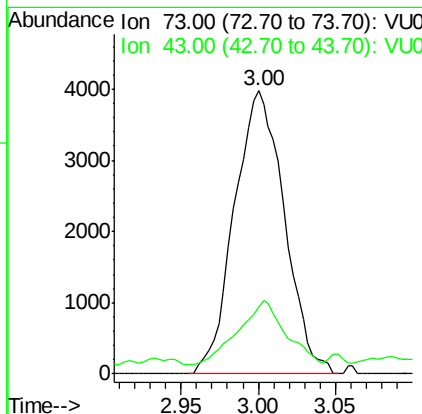
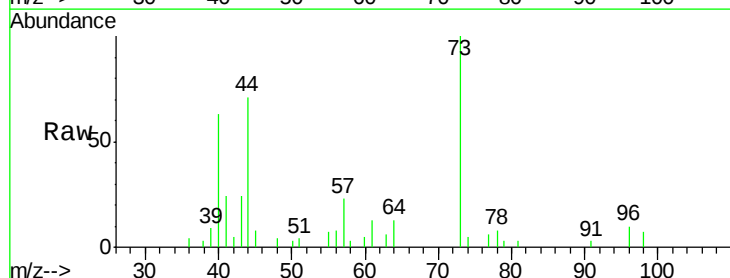
MMDadoda
 3/11/2019 6:48:14 PM

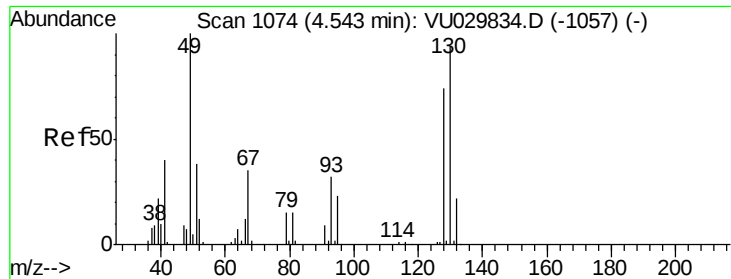


#25

Methyl tert-Butyl Ether
 Concen: 0.239 ug/l
 RT: 3.00 min Scan# 594
 Delta R.T. -0.00 min
 Lab File: VU029846.D
 Acq: 07 Mar 2019 10:49

Tgt Ion	Ratio	Lower	Upper
73	100		
43	21.5	13.1	19.7#





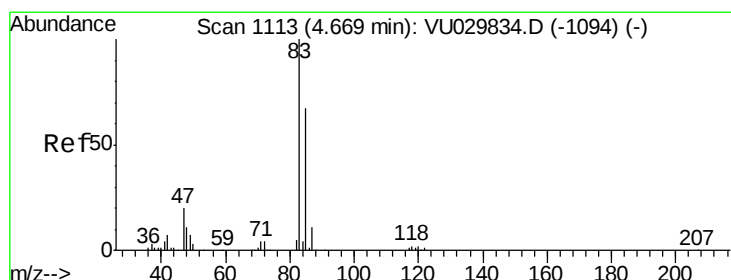
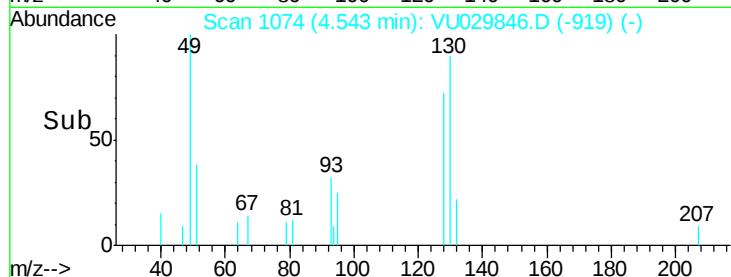
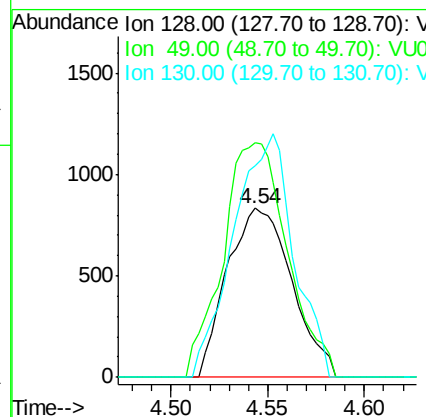
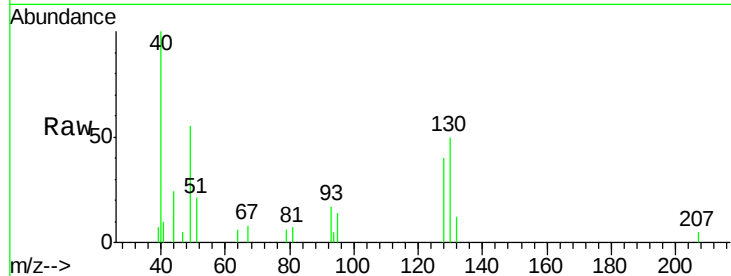
#26
Bromochloromethane
Concen: 0.247 ug/l
RT: 4.54 min Scan# 1074
Delta R.T. -0.00 min
Lab File: VU029846.D
Acq: 07 Mar 2019 10:49

Instrument :
MSVOA_U
ClientSampleId :
MDL03

Tot Ion	Ratio	Lower	Upper
128	100		
49	138.0	0.0	270.6
130	133.4	104.2	156.4

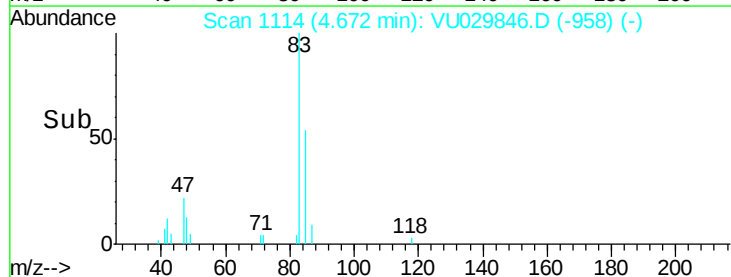
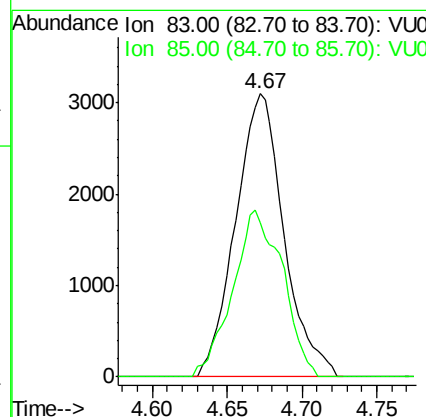
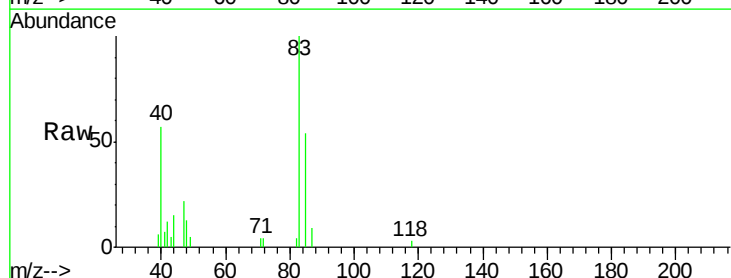
Manual Integrations
APPROVED

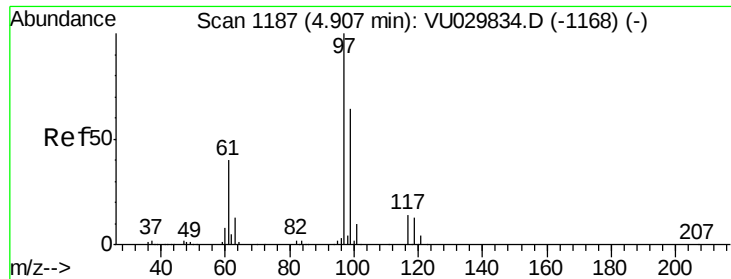
MMDadoda
3/11/2019 6:48:14 PM



#27
Chloroform
Concen: 0.246 ug/l
RT: 4.67 min Scan# 1114
Delta R.T. 0.00 min
Lab File: VU029846.D
Acq: 07 Mar 2019 10:49

Tgt Ion	Ratio	Lower	Upper
83	100		
85	54.3	0.0	133.2





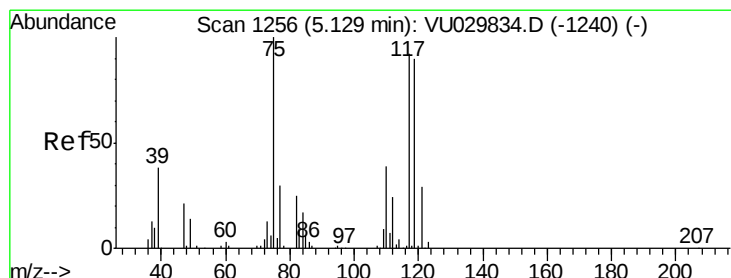
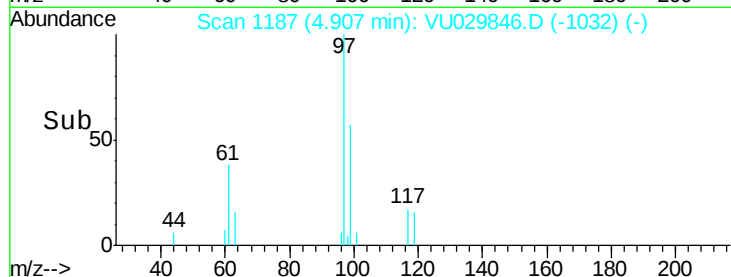
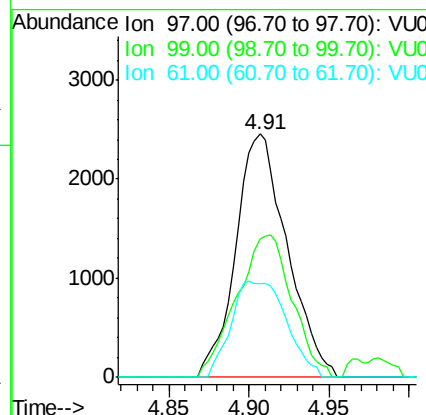
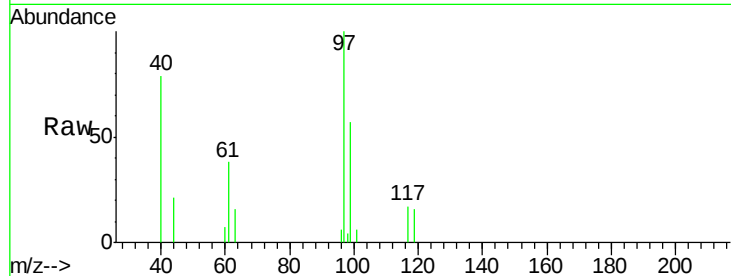
#28
 1,1,1-Trichloroethane
 Concen: 0.224 ug/l
 RT: 4.91 min Scan# 1187
 Delta R.T. -0.00 min
 Lab File: VU029846.D
 Acq: 07 Mar 2019 10:49

Instrument :
 MSVOA_U
 ClientSampled :
 MDL03

Tot Ion	Ratio	Lower	Upper
97	100		
99	63.3	31.9	95.9
61	42.4	20.4	61.3

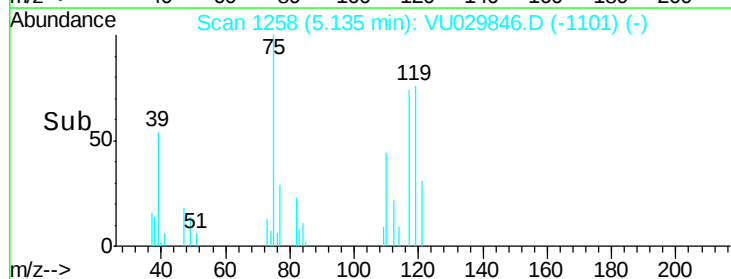
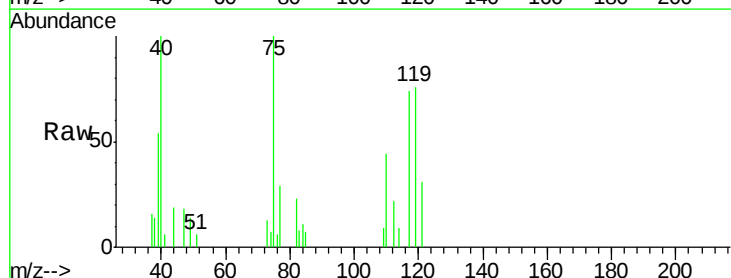
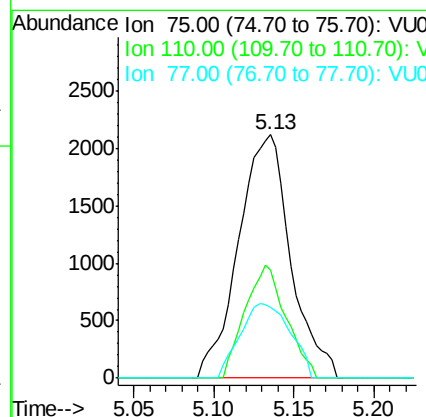
Manual Integrations
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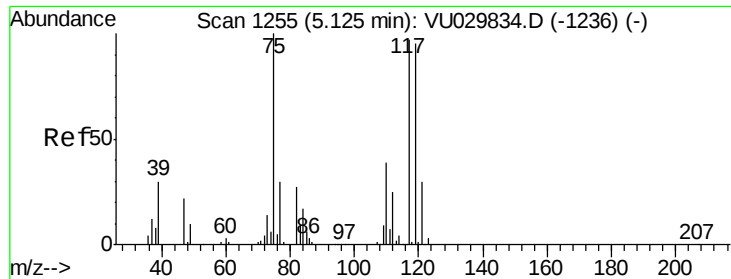
MMDadoda
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#29
 1,1-Dichloropropene
 Concen: 0.222 ug/l
 RT: 5.13 min Scan# 1258
 Delta R.T. 0.01 min
 Lab File: VU029846.D
 Acq: 07 Mar 2019 10:49

Tgt Ion	Ratio	Lower	Upper
75	100		
110	36.4	19.1	57.5
77	29.3	23.9	35.9





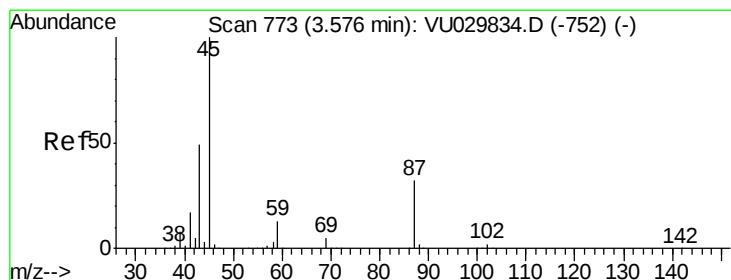
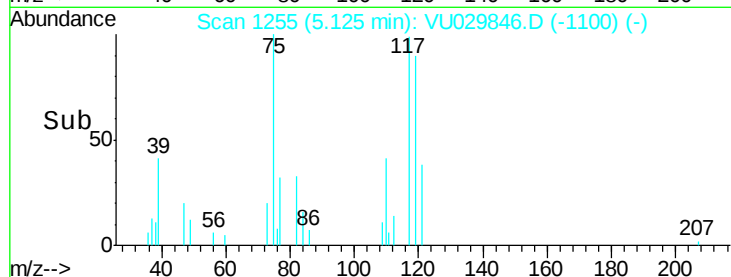
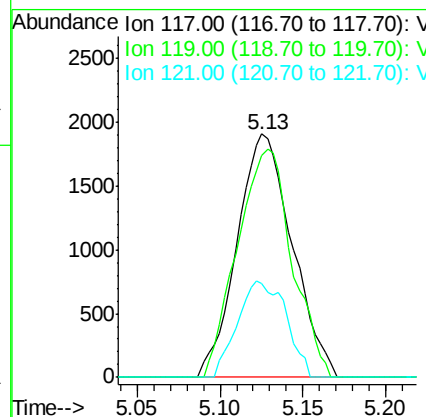
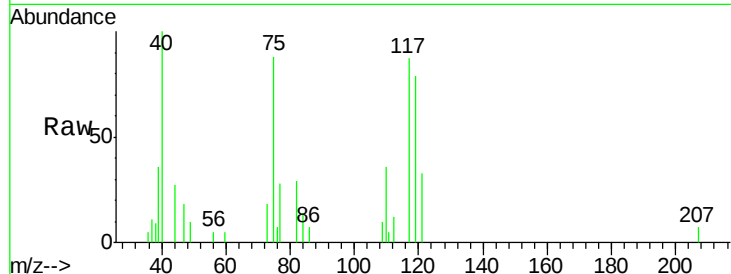
#30
Carbon Tetrachloride
Concen: 0.210 ug/l
RT: 5.13 min Scan# 1255
Delta R.T. -0.00 min
Lab File: VU029846.D
Acq: 07 Mar 2019 10:49

Instrument :
MSVOA_U
ClientSampled :
MDL03

Tot Ion	Ratio	Lower	Upper
117	100		
119	91.0	78.4	117.6
121	38.5	25.0	37.4#

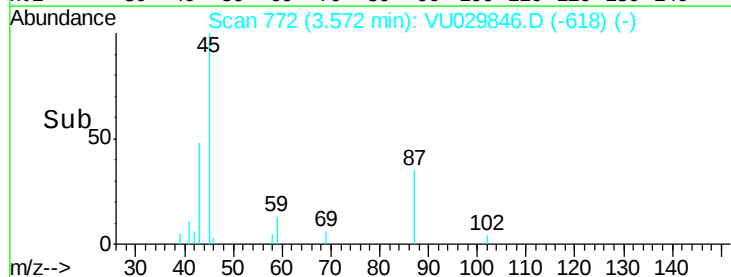
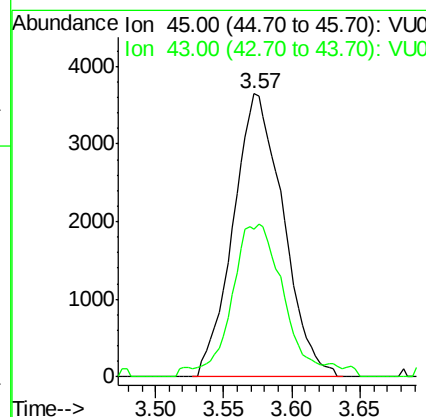
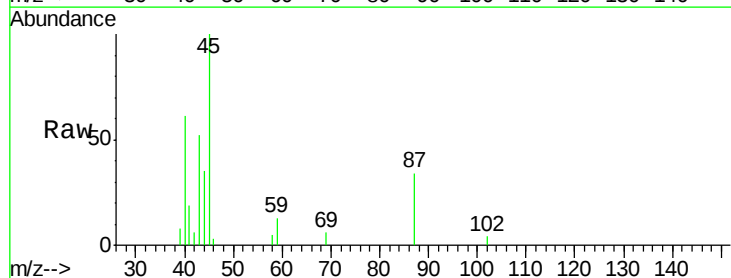
Manual Integrations
APPROVED

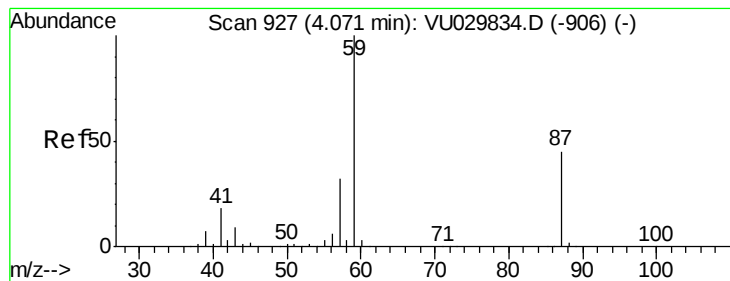
MMDadoda
3/11/2019 6:48:14 PM



#31
Isopropyl Ether
Concen: 0.241 ug/l
RT: 3.57 min Scan# 772
Delta R.T. -0.00 min
Lab File: VU029846.D
Acq: 07 Mar 2019 10:49

Tgt Ion	Ratio	Lower	Upper
45	100		
43	50.3	24.3	72.9





#32

Ethyl-t-butyl ether

Concen: 0.238 ug/l

RT: 4.06 min Scan# 925

Delta R.T. -0.01 min

Lab File: VU029846.D

Acq: 07 Mar 2019 10:49

Instrument :

MSVOA_U

ClientSampled :

MDL03

Tot Ion: 59 Resp: 8928

Ion Ratio Lower Upper

59 100

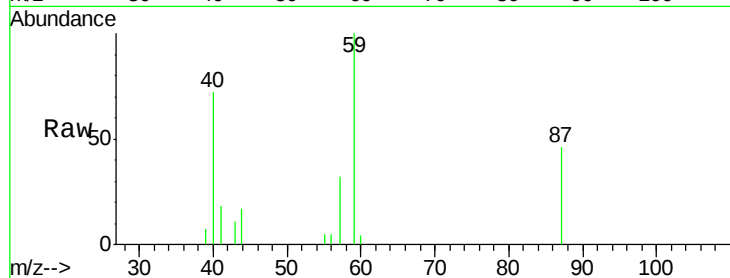
87 45.0 36.2 54.4

Manual Integrations

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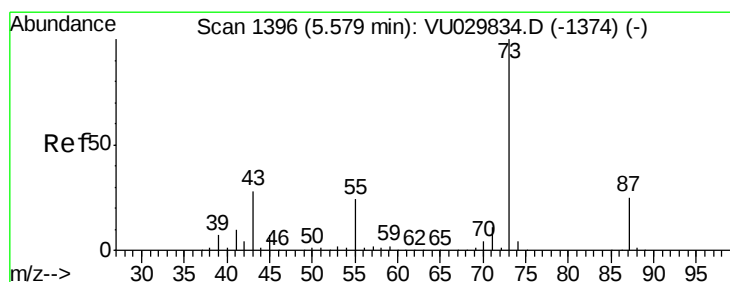
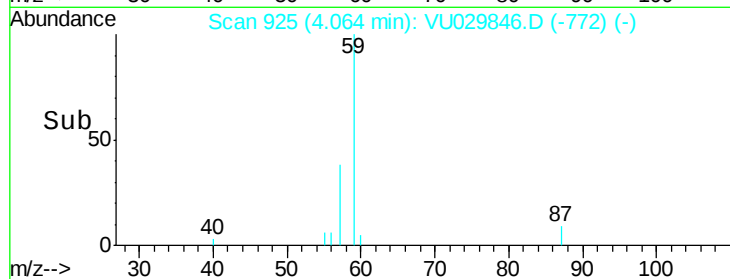
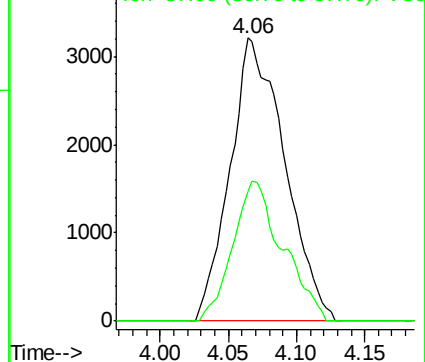
MMDadoda

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Abundance Ion 59.00 (58.70 to 59.70): VU0

Ion 87.00 (86.70 to 87.70): VU0



#33

Tert-Amyl methyl ether

Concen: 0.221 ug/l

RT: 5.58 min Scan# 1396

Delta R.T. -0.00 min

Lab File: VU029846.D

Acq: 07 Mar 2019 10:49

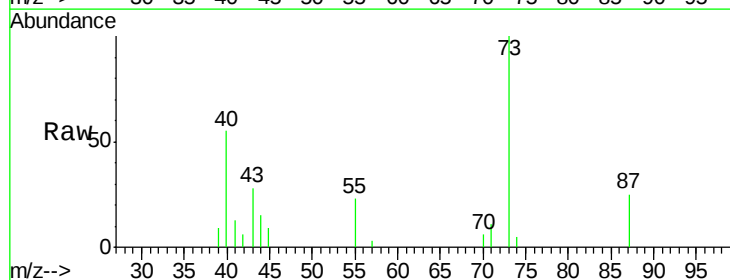
Tgt Ion: 73 Resp: 7652

Ion Ratio Lower Upper

73 100

87 17.9 19.7 29.5#

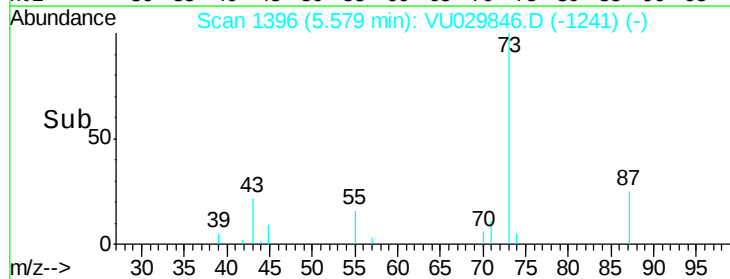
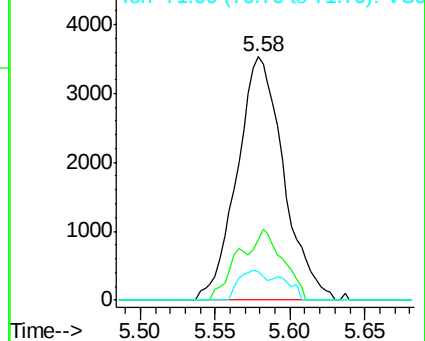
71 6.9 9.4 14.2#

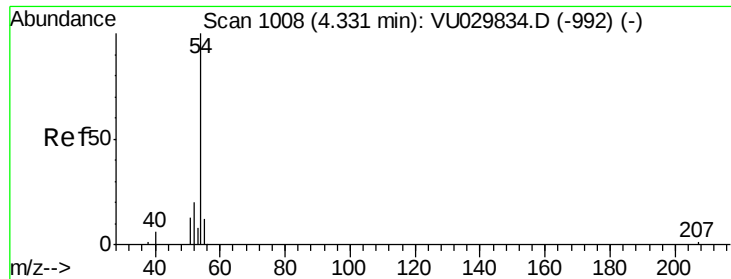


Abundance Ion 73.00 (72.70 to 73.70): VU0

Ion 87.00 (86.70 to 87.70): VU0

Ion 71.00 (70.70 to 71.70): VU0





#34

Propionitrile

Concen: 0.799 ug/l m

RT: 4.34 min Scan# 1011

Delta R.T. 0.01 min

Lab File: VU029846.D

Acq: 07 Mar 2019 10:49

Instrument :

MSVOA_U

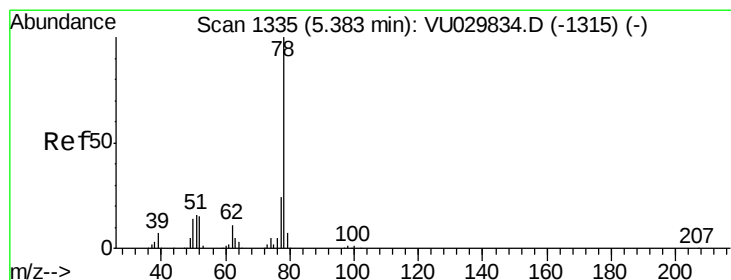
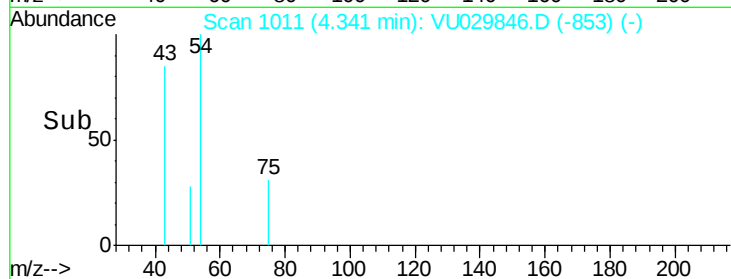
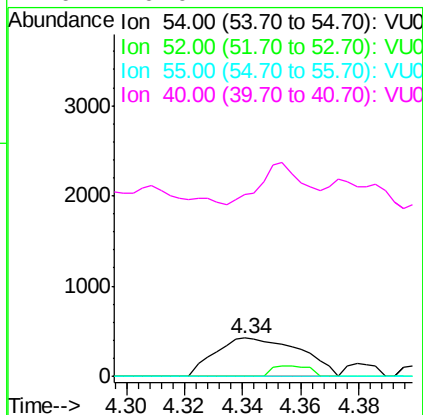
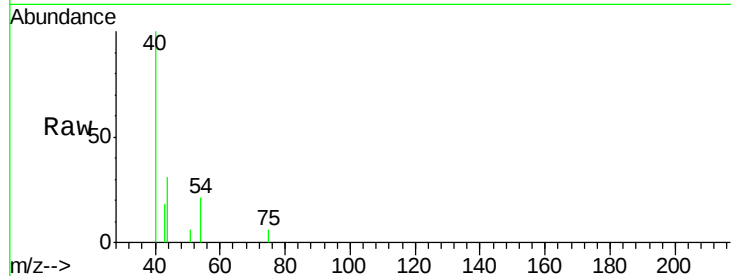
ClientSampleId :

MDL03

Tot Ion:	54	Resp:	863
Ion	Ratio	Lower	Upper
54	100		
52	0.0	16.1	24.1#
55	0.0	11.2	16.8#
40	0.0	4.7	7.1#

Manual Integrations
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#35

Benzene

Concen: 0.227 ug/l

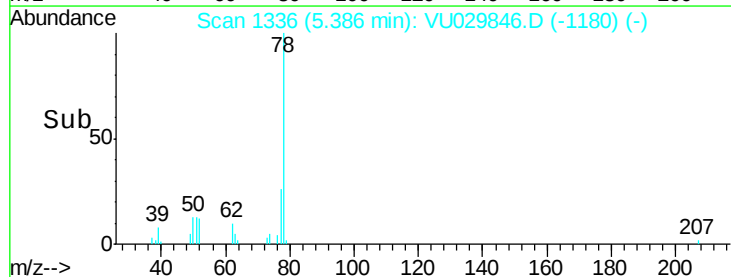
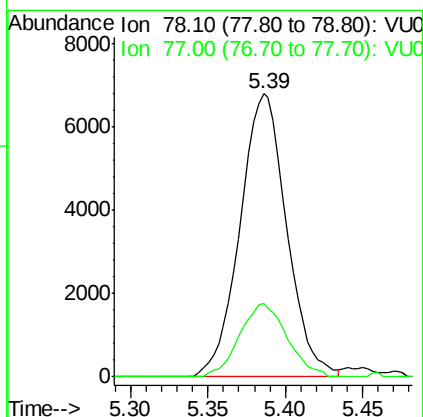
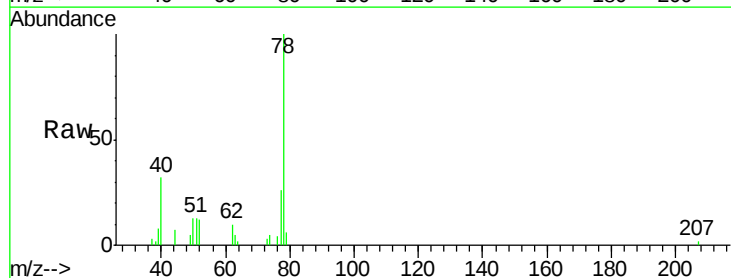
RT: 5.39 min Scan# 1336

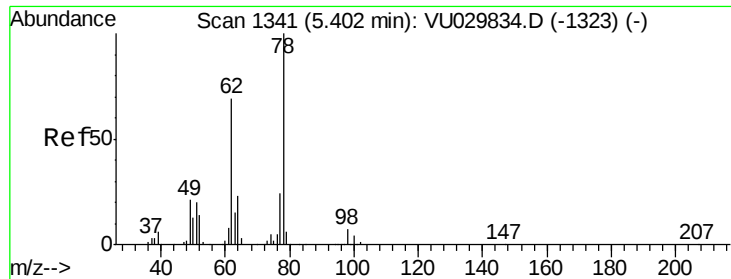
Delta R.T. 0.00 min

Lab File: VU029846.D

Acq: 07 Mar 2019 10:49

Tgt Ion:	78	Resp:	14300
Ion	Ratio	Lower	Upper
78	100		
77	25.9	19.2	28.8





#36

1,2-Dichloroethane

Concen: 0.232 ug/l

RT: 5.41 min Scan# 1342

Delta R.T. 0.00 min

Lab File: VU029846.D

Acq: 07 Mar 2019 10:49

Instrument :

MSVOA_U

ClientSampleId :

MDL03

Tot Ion: 62 Resp: 3988

Ion Ratio Lower Upper

62 100

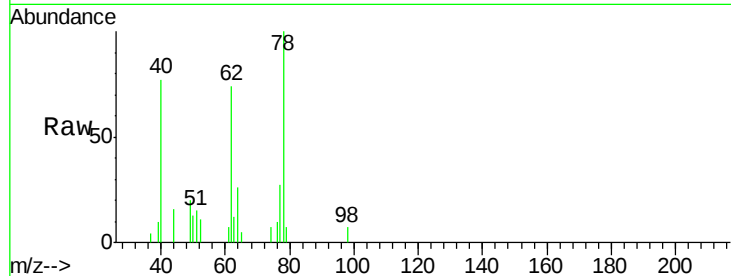
98 4.4 8.2 12.2#

Manual Integrations

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Abundance Ion 62.00 (61.70 to 62.70): VU029834.D (-1323) (-)

Ion 98.00 (97.70 to 98.70): VU029834.D (-1323) (-)

5.41

2000

1500

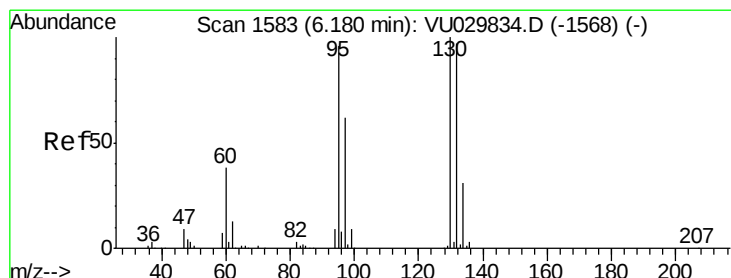
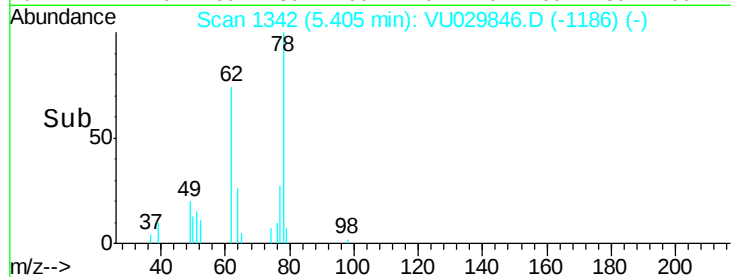
1000

500

0

5.35 5.40 5.45

Time-->



#37

Trichloroethene

Concen: 0.237 ug/l

RT: 6.18 min Scan# 1583

Delta R.T. -0.00 min

Lab File: VU029846.D

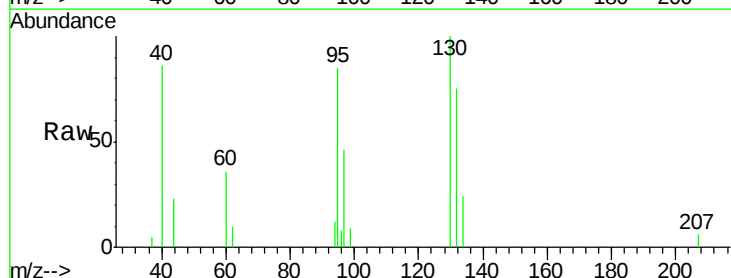
Acq: 07 Mar 2019 10:49

Tgt Ion:130 Resp: 4343

Ion Ratio Lower Upper

130 100

95 85.3 76.6 114.8



Abundance Ion 129.90 (129.60 to 130.60): VU029834.D (-1568) (-)

Ion 94.90 (94.60 to 95.60): VU029834.D (-1568) (-)

6.18

2500

2000

1500

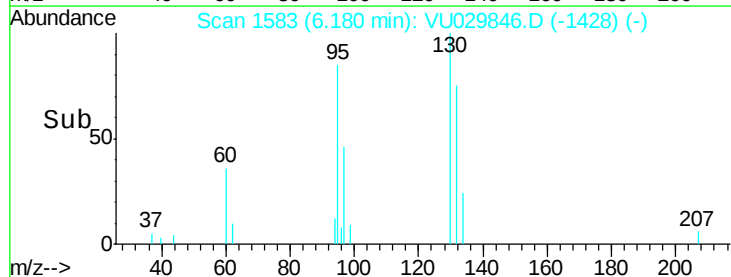
1000

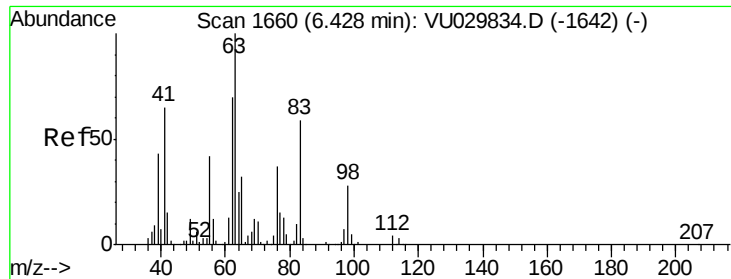
500

0

6.15 6.20 6.25

Time-->





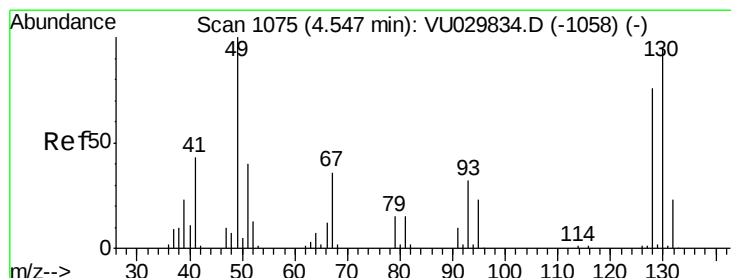
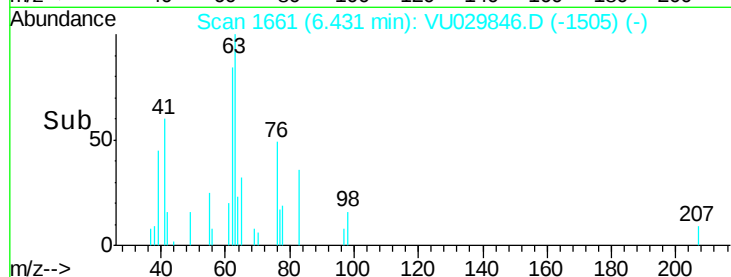
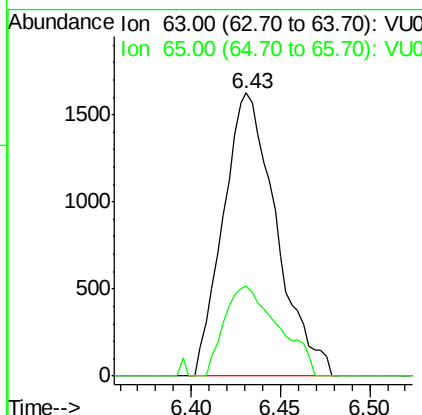
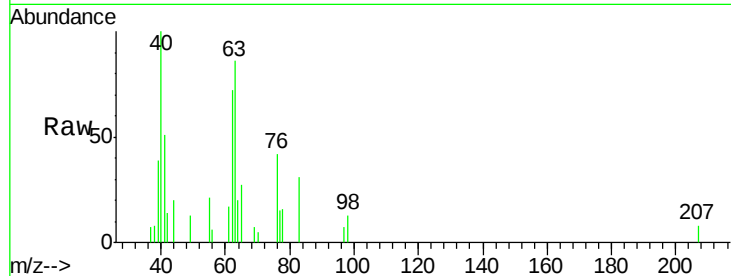
#38
 1,2-Dichloropropane
 Concen: 0.211 ug/l
 RT: 6.43 min Scan# 1661
 Delta R.T. 0.00 min
 Lab File: VU029846.D
 Acq: 07 Mar 2019 10:49

Instrument :
 MSVOA_U
 ClientSampled :
 MDL03

Tot Ion: 63 Resp: 3353
 Ion Ratio Lower Upper
 63 100
 65 31.9 25.4 38.2

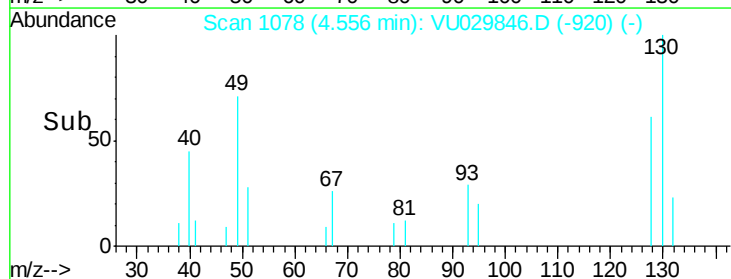
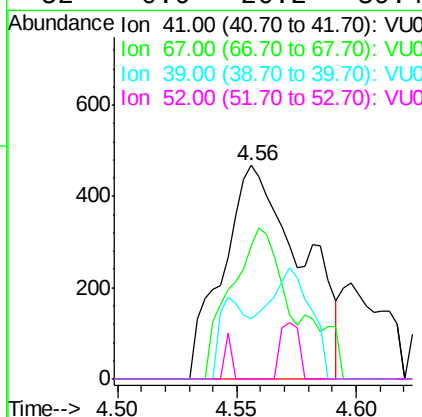
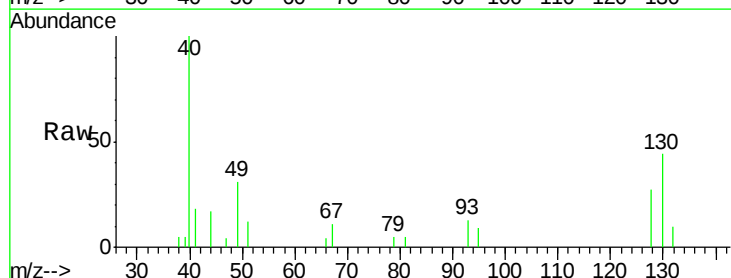
Manual Integrations
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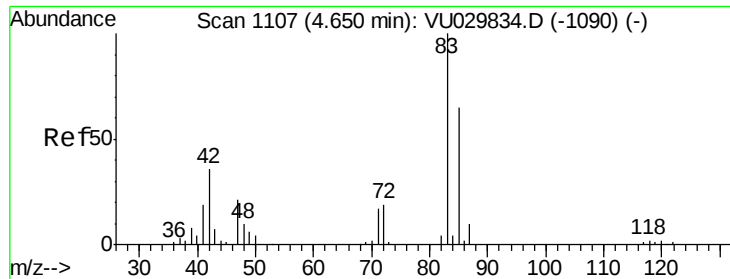
MMDadoda
 3/11/2019 6:48:14 PM



#39
 Methacrylonitrile
 Concen: 0.235 ug/l m
 RT: 4.56 min Scan# 1078
 Delta R.T. 0.01 min
 Lab File: VU029846.D
 Acq: 07 Mar 2019 10:49

Tgt Ion: 41 Resp: 1070
 Ion Ratio Lower Upper
 41 100
 67 0.0 68.4 102.6#
 39 0.0 42.6 63.8#
 52 0.0 26.2 39.4#





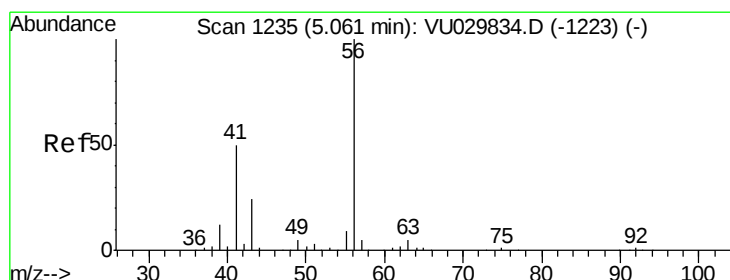
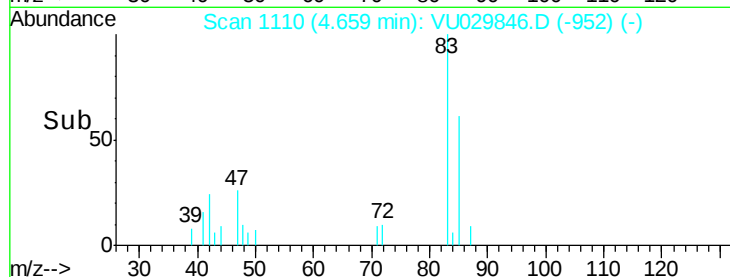
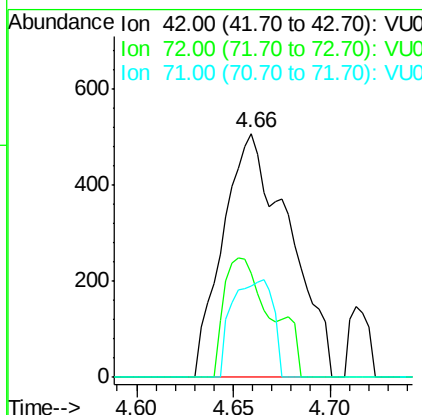
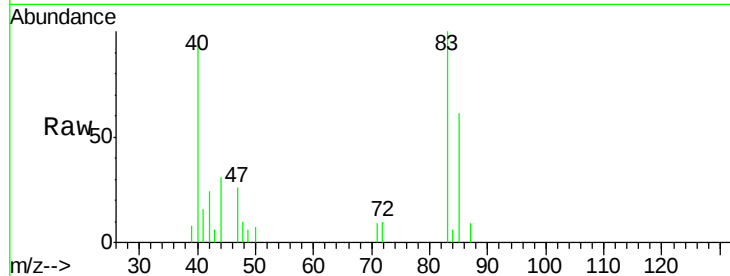
#41
Tetrahydrofuran
Concen: 0.505 ug/l
RT: 4.66 min Scan# 1110
Delta R.T. 0.01 min
Lab File: VU029846.D
Acq: 07 Mar 2019 10:49

Instrument :
MSVOA_U
ClientSampleId :
MDL03

Tot Ion	Ratio	Lower	Upper
42	100		
72	29.2	43.6	65.4#
71	24.9	37.5	56.3#

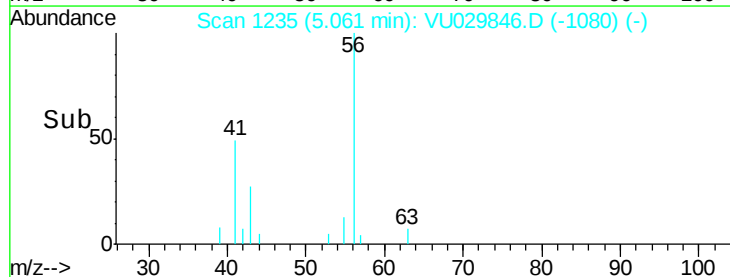
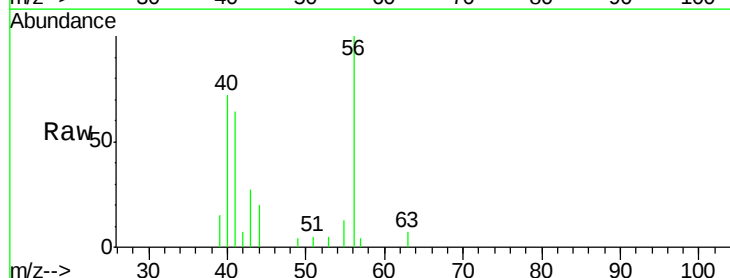
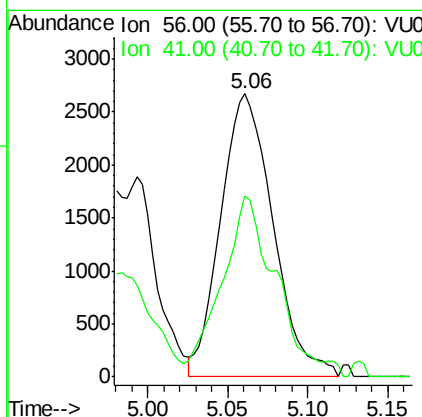
Manual Integrations
APPROVED

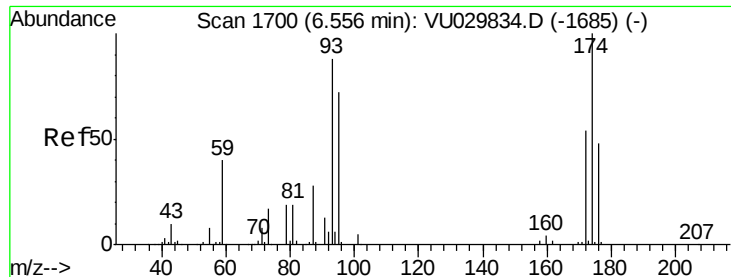
MMDadoda
3/11/2019 6:48:14 PM



#42
1-Chlorobutane
Concen: 0.220 ug/l
RT: 5.06 min Scan# 1235
Delta R.T. -0.00 min
Lab File: VU029846.D
Acq: 07 Mar 2019 10:49

Tgt Ion	Ratio	Lower	Upper
56	100		
41	66.5	25.0	75.0





#43

Dibromomethane

Concen: 0.240 ug/l

RT: 6.56 min Scan# 1702

Delta R.T. 0.01 min

Lab File: VU029846.D

Acq: 07 Mar 2019 10:49

Instrument :

MSVOA_U

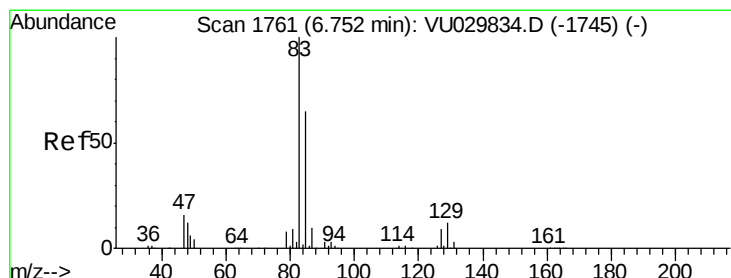
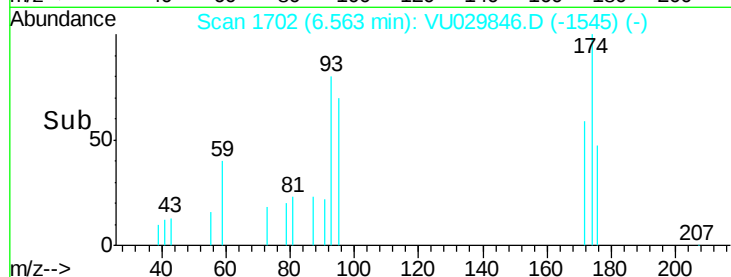
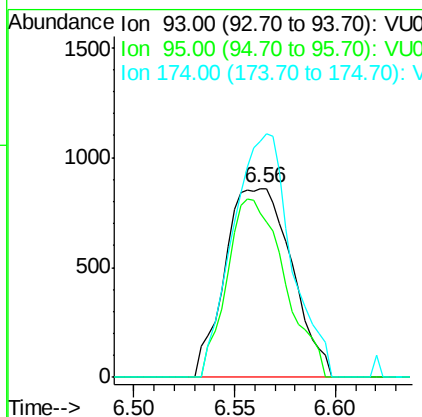
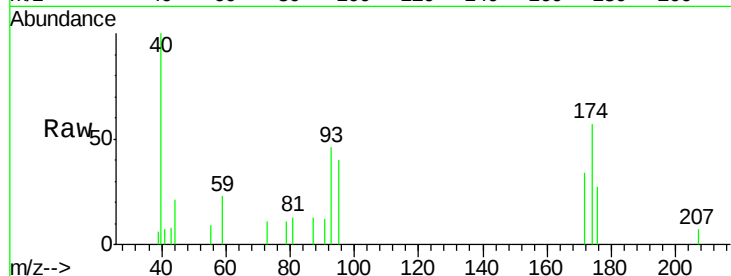
ClientSampled :

MDL03

Tot Ion:	93	Resp:	1983
Ion	Ratio	Lower	Upper
93	100		
95	81.5	67.0	100.6
174	112.8	91.4	137.2

Manual Integrations
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MMDadoda
3/11/2019 6:48:14 PM



#44

Bromodichloromethane

Concen: 0.205 ug/l

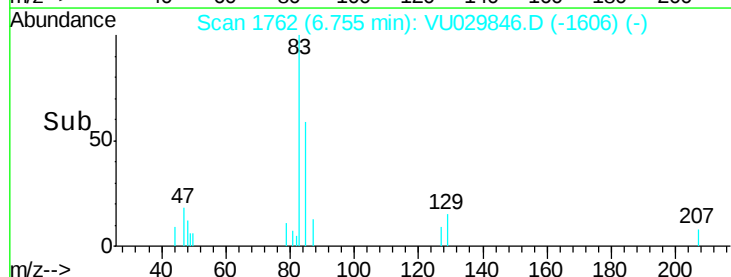
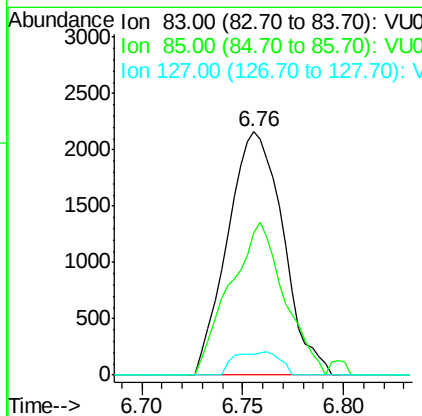
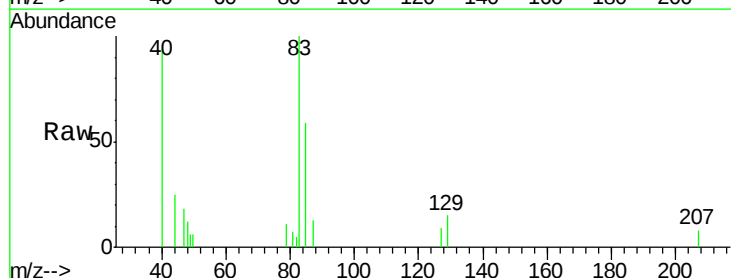
RT: 6.76 min Scan# 1762

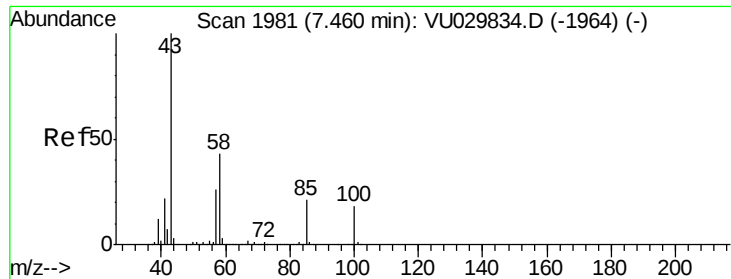
Delta R.T. 0.00 min

Lab File: VU029846.D

Acq: 07 Mar 2019 10:49

Tgt Ion:	83	Resp:	4153
Ion	Ratio	Lower	Upper
83	100		
85	58.6	51.7	77.5
127	8.8	7.4	11.2





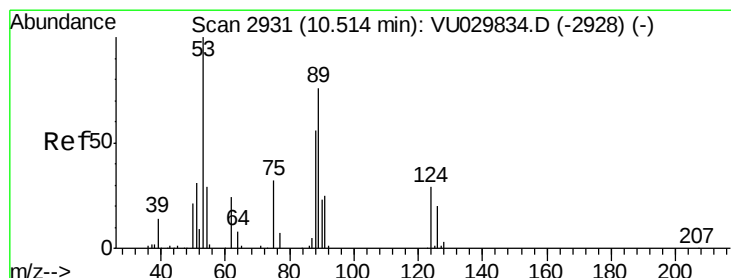
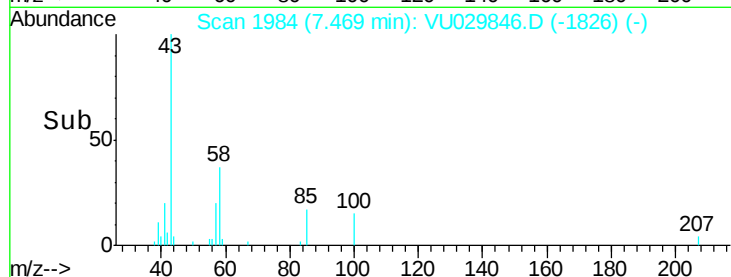
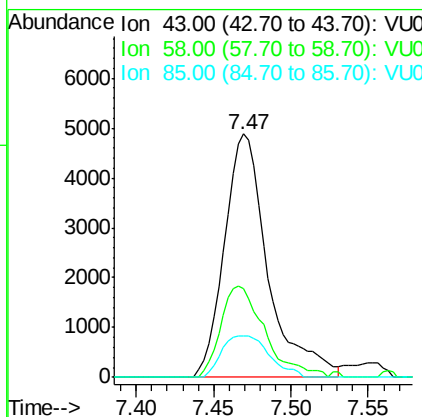
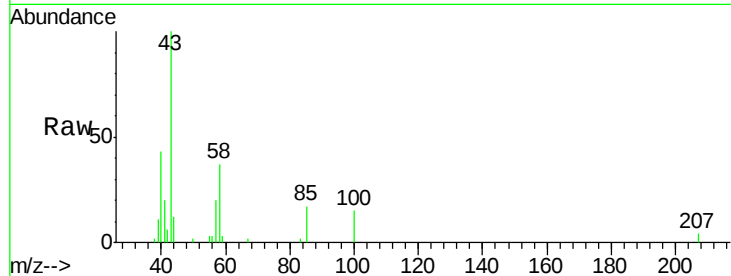
#45
4-Methyl-2-Pentanone
Concen: 1.105 ug/l
RT: 7.47 min Scan# 1984
Delta R.T. 0.01 min
Lab File: VU029846.D
Acq: 07 Mar 2019 10:49

Instrument :
MSVOA_U
ClientSampleId :
MDL03

Tot Ion	Ratio	Lower	Upper
43	100		
58	38.2	21.6	65.0
85	18.7	16.5	24.7

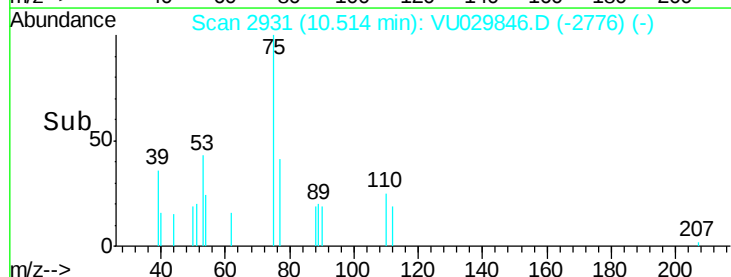
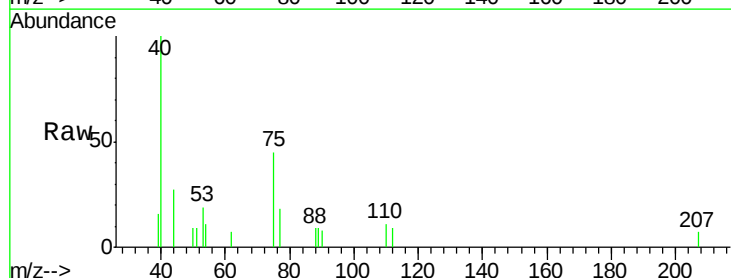
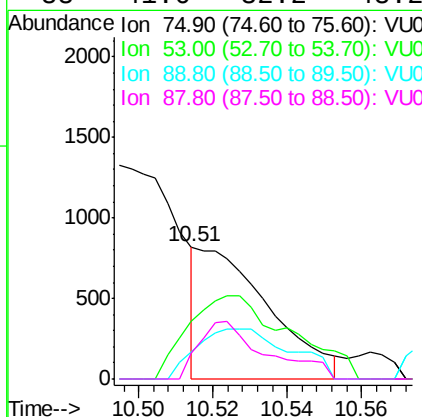
Manual Integrations
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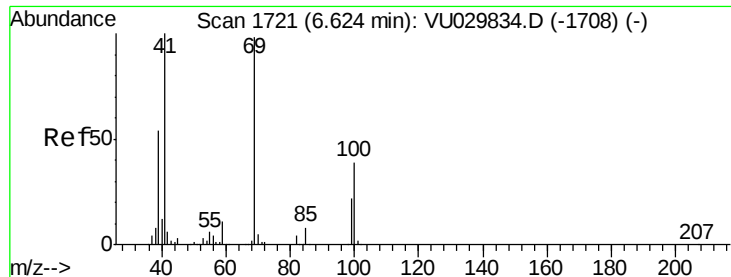
MMDadoda
3/11/2019 6:48:14 PM



#46
t-1,4-Dichloro-2-butene
Concen: 0.299 ug/l m
RT: 10.51 min Scan# 2931
Delta R.T. -0.00 min
Lab File: VU029846.D
Acq: 07 Mar 2019 10:49

Tgt Ion	Ratio	Lower	Upper
75	100		
53	91.5	59.2	88.8#
89	50.5	44.9	67.3
88	41.6	32.2	48.2





#47

Methvl methacrylate

Concen: 0.368 ug/l

RT: 6.63 min Scan# 1724

Delta R.T. 0.01 min

Lab File: VU029846.D

Acq: 07 Mar 2019 10:49

Instrument :

MSVOA_U

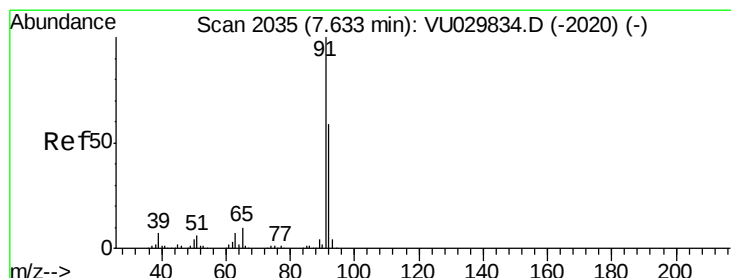
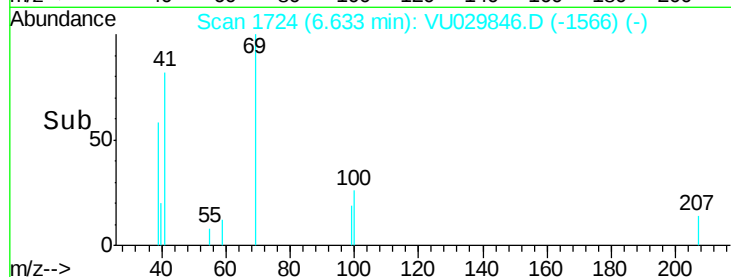
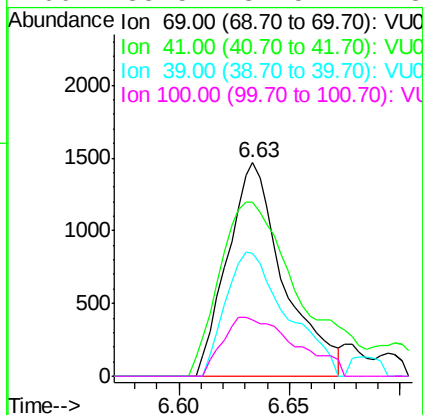
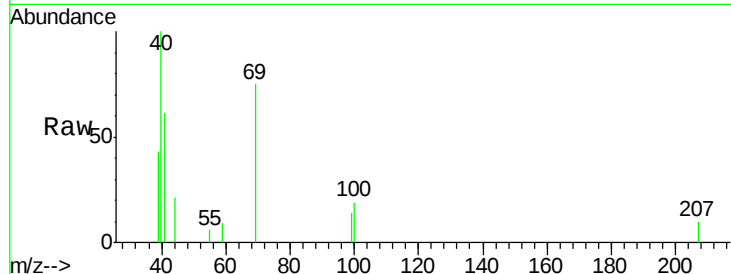
ClientSampleId :

MDL03

Tot Ion	Ion	Ratio	Lower	Upper
69	100			
41	115.4	0.0	201.0	
39	63.2	43.3	64.9	
100	35.5	31.5	47.3	

Manual Integrations
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3/11/2019 6:48:14 PM



#49

Toluene

Concen: 0.212 ug/l

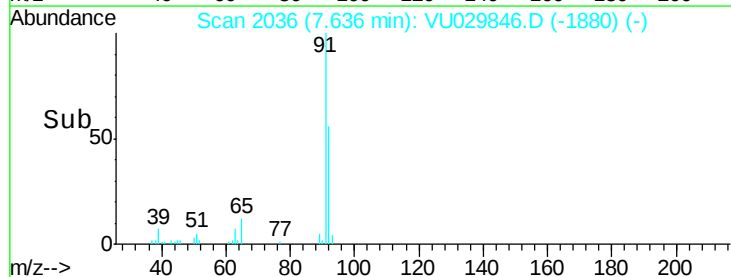
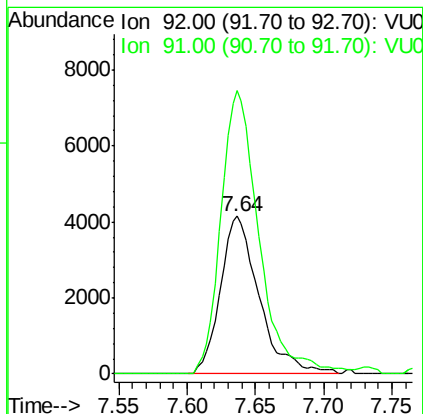
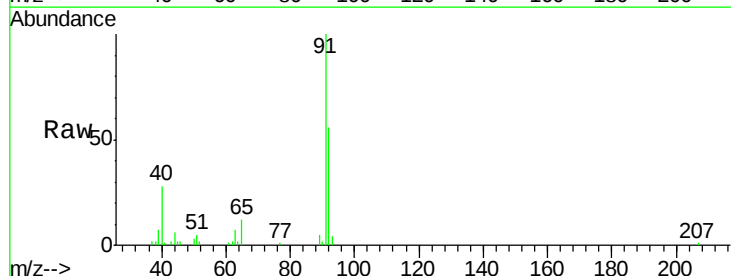
RT: 7.64 min Scan# 2036

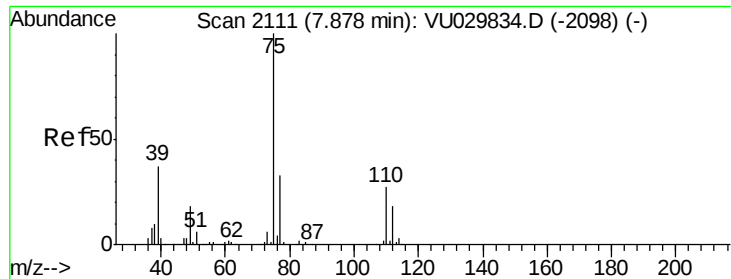
Delta R.T. 0.00 min

Lab File: VU029846.D

Acq: 07 Mar 2019 10:49

Tgt Ion	Ion	Ratio	Lower	Upper
92	100			
91	176.6	137.8	206.8	





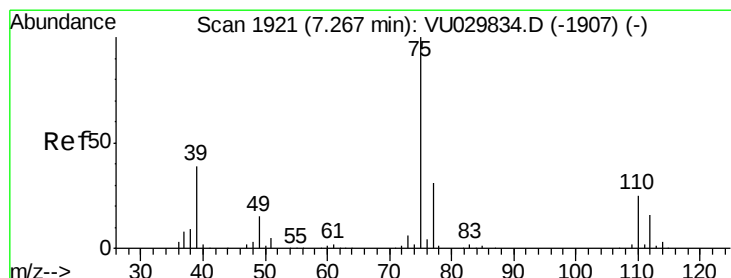
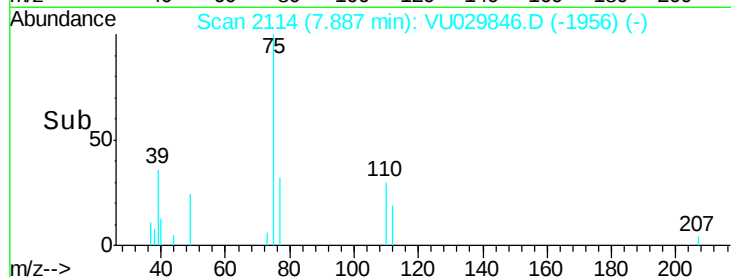
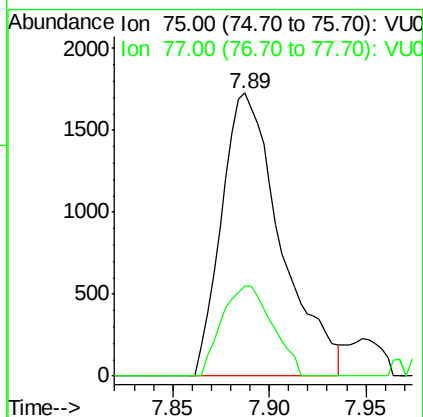
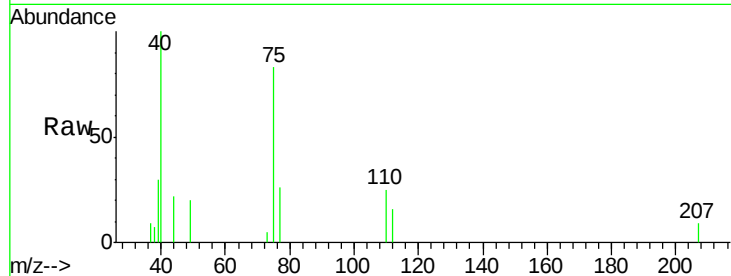
#50
t-1,3-Dichloropropene
Concen: 0.207 ug/l
RT: 7.89 min Scan# 2114
Delta R.T. 0.01 min
Lab File: VU029846.D
Acq: 07 Mar 2019 10:49

Instrument :
MSVOA_U
ClientSampleId :
MDL03

Tot Ion: 75 Resp: 3677
Ion Ratio Lower Upper
75 100
77 31.8 26.4 39.6

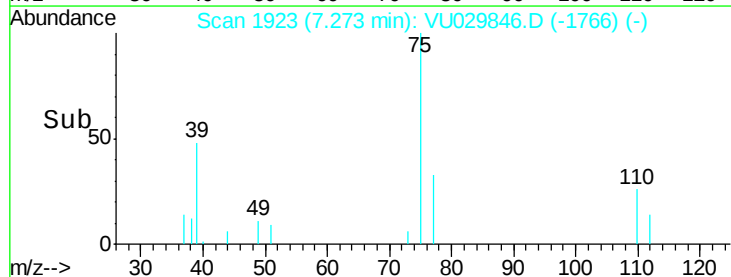
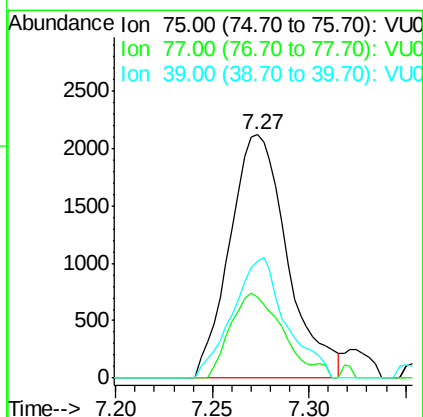
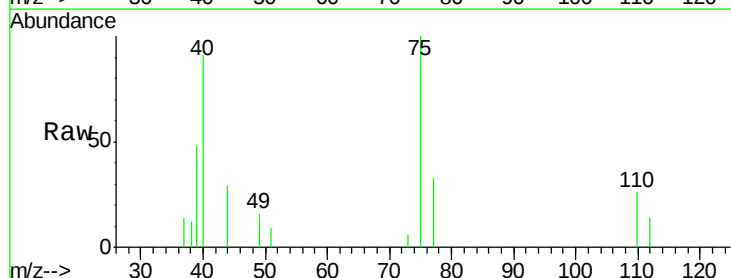
Manual Integrations
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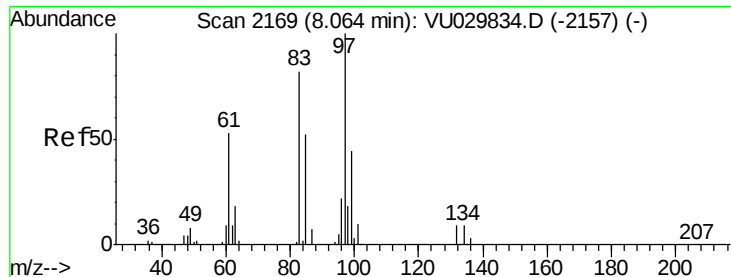
MMDadoda
3/11/2019 6:48:14 PM



#51
cis-1,3-Dichloropropene
Concen: 0.200 ug/l
RT: 7.27 min Scan# 1923
Delta R.T. 0.01 min
Lab File: VU029846.D
Acq: 07 Mar 2019 10:49

Tgt Ion: 75 Resp: 4402
Ion Ratio Lower Upper
75 100
77 33.2 24.9 37.3
39 48.3 30.8 46.2#





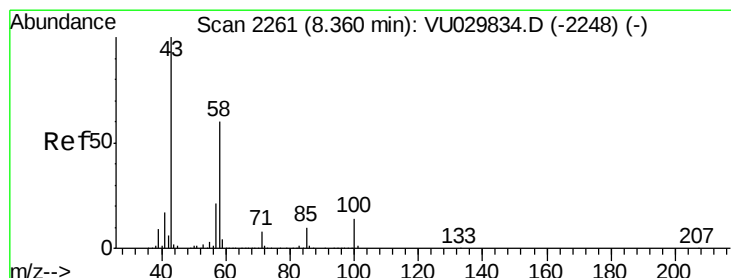
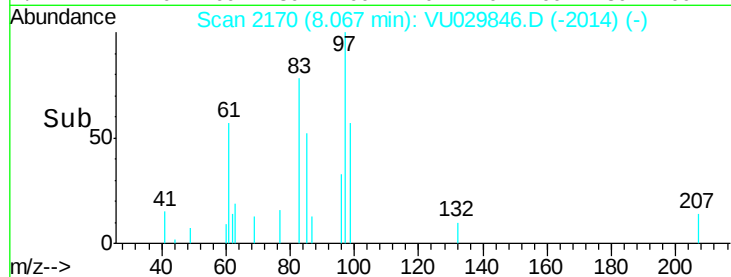
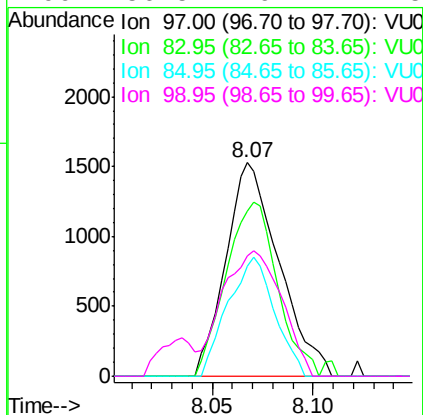
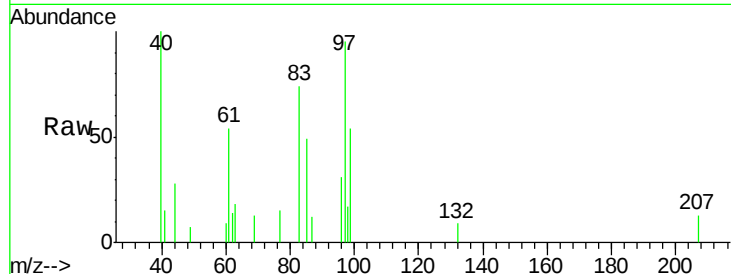
#52
 1,1,2-Trichloroethane
 Concen: 0.230 ug/l
 RT: 8.07 min Scan# 2170
 Delta R.T. 0.00 min
 Lab File: VU029846.D
 Acq: 07 Mar 2019 10:49

Instrument :
 MSVOA_U
 ClientSampleId :
 MDL03

Tot Ion:	97	Resp:	2806
Ion	Ratio	Lower	Upper
97	100		
83	77.6	65.9	98.9
85	51.8	43.0	64.6
99	56.5	49.7	74.5

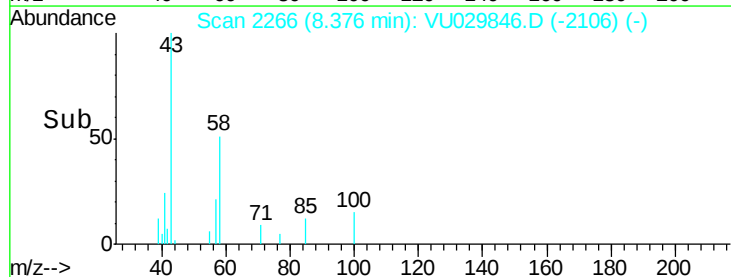
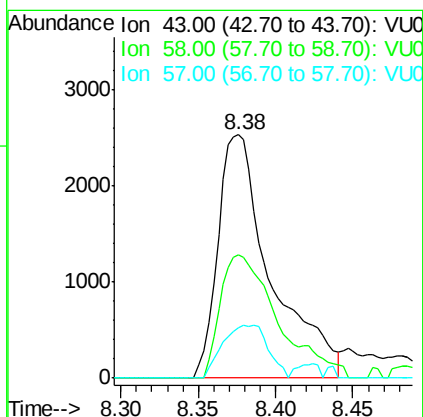
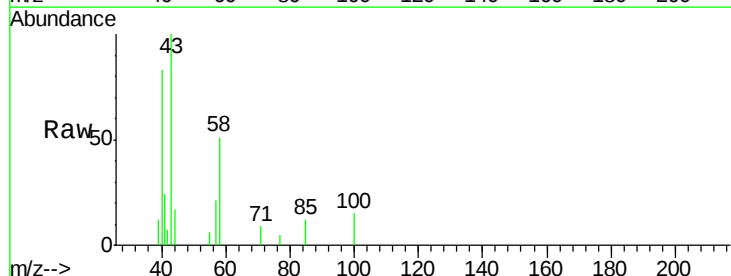
Manual Integrations
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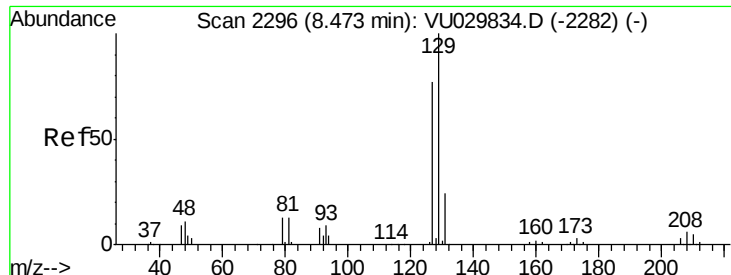
MMDadoda
 3/11/2019 6:48:14 PM



#54
 2-Hexanone
 Concen: 1.009 ug/l
 RT: 8.38 min Scan# 2266
 Delta R.T. 0.02 min
 Lab File: VU029846.D
 Acq: 07 Mar 2019 10:49

Tgt Ion:	43	Resp:	6028
Ion	Ratio	Lower	Upper
43	100		
58	54.8	39.6	79.6
57	18.6	0.5	40.5





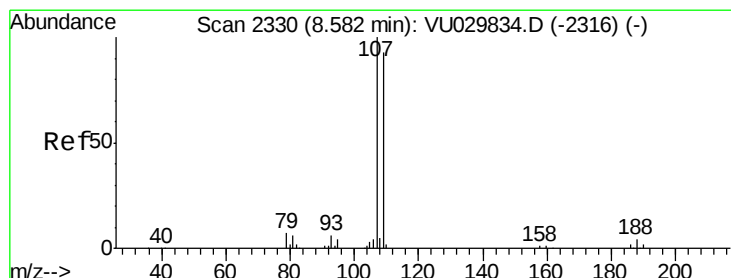
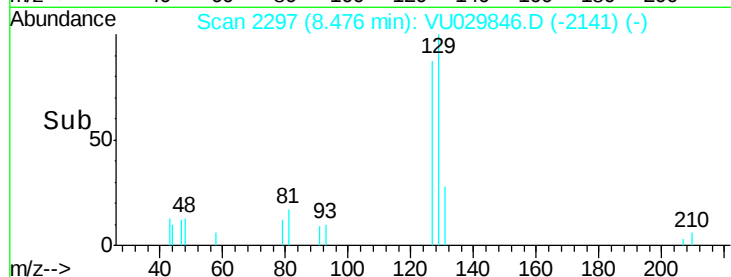
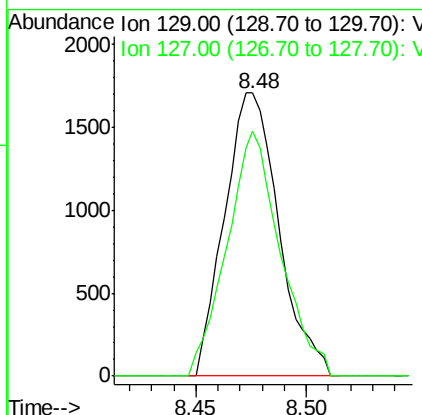
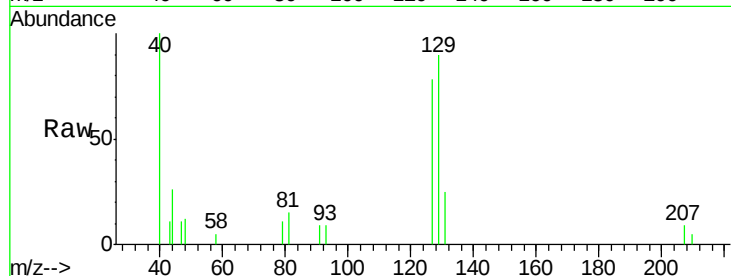
#55
Dibromochloromethane
Concen: 0.201 ug/l
RT: 8.48 min Scan# 2297
Delta R.T. 0.00 min
Lab File: VU029846.D
Acq: 07 Mar 2019 10:49

Instrument :
MSVOA_U
ClientSampleId :
MDL03

Tot Ion:129 Resp: 2912
Ion Ratio Lower Upper
129 100
127 84.9 61.6 92.4

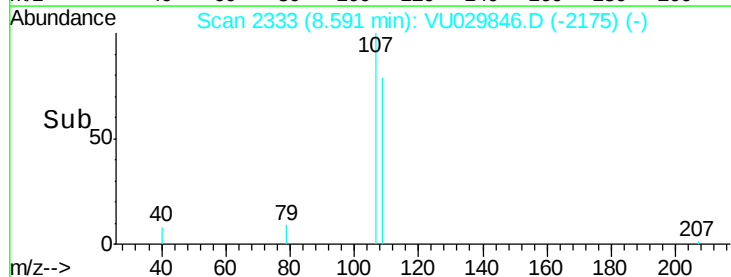
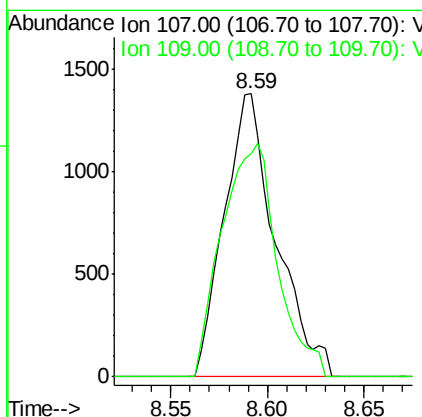
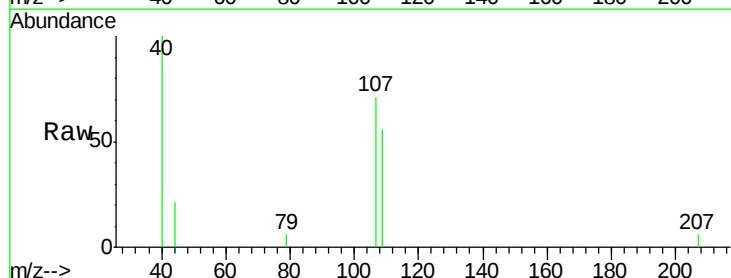
Manual Integrations
APPROVED

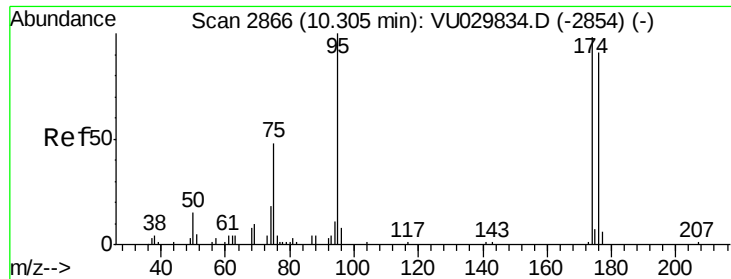
MMDadoda
3/11/2019 6:48:14 PM



#56
1,2-Dibromoethane
Concen: 0.221 ug/l
RT: 8.59 min Scan# 2333
Delta R.T. 0.01 min
Lab File: VU029846.D
Acq: 07 Mar 2019 10:49

Tgt Ion:107 Resp: 2554
Ion Ratio Lower Upper
107 100
109 89.0 0.0 188.4





#57

4-Bromofluorobenzene

Concen: 0.221 ug/l

RT: 10.31 min Scan# 2867

Delta R.T. 0.00 min

Lab File: VU029846.D

Acq: 07 Mar 2019 10:49

Instrument :

MSVOA_U

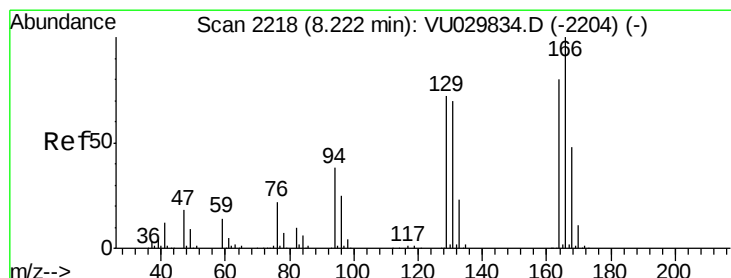
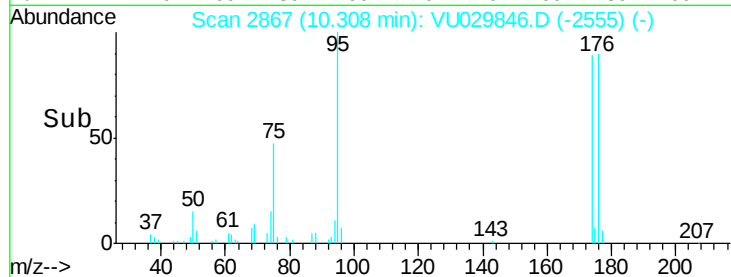
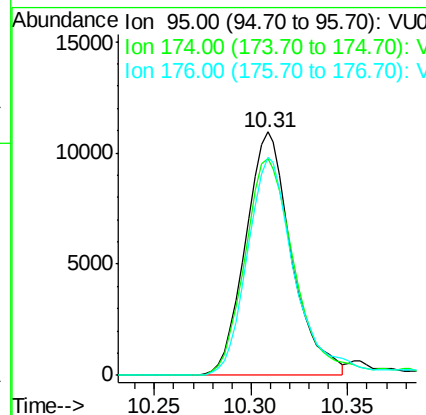
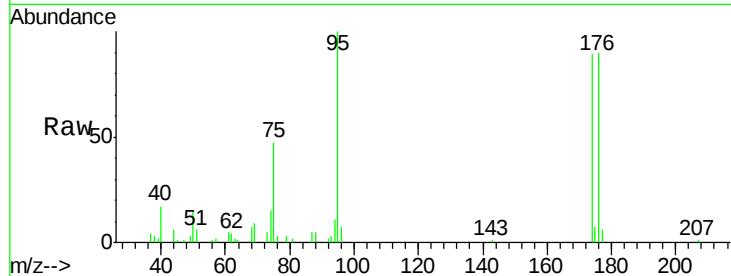
ClientSampled :

MDL03

Tot Ion:	95	Resp:	18113
Ion	Ratio	Lower	Upper
95	100		
174	97.0	76.5	114.7
176	91.6	74.2	111.2

Manual Integrations
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3/11/2019 6:48:14 PM



#58

Tetrachloroethene

Concen: 0.207 ug/l

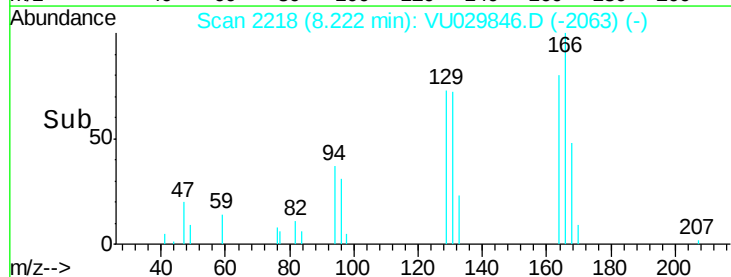
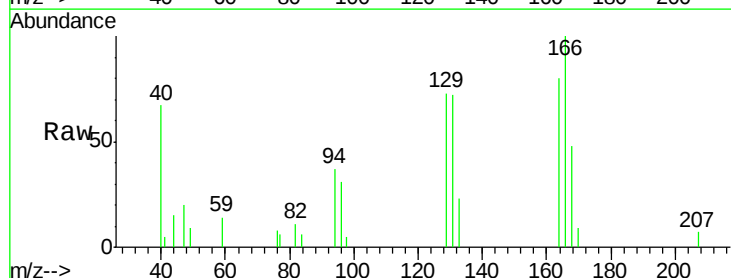
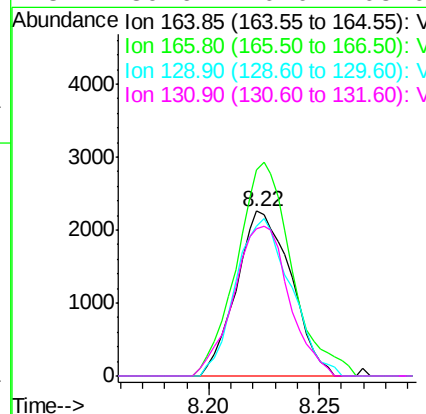
RT: 8.22 min Scan# 2218

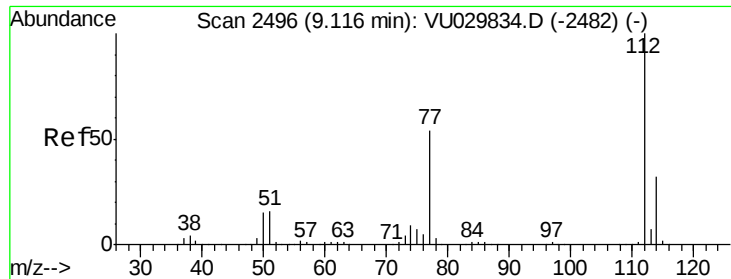
Delta R.T. -0.00 min

Lab File: VU029846.D

Acq: 07 Mar 2019 10:49

Tgt Ion:	164	Resp:	3885
Ion	Ratio	Lower	Upper
164	100		
166	125.1	100.5	150.7
129	91.1	72.3	108.5
131	89.6	70.0	105.0





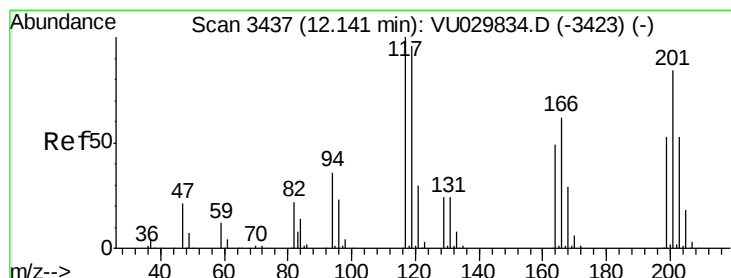
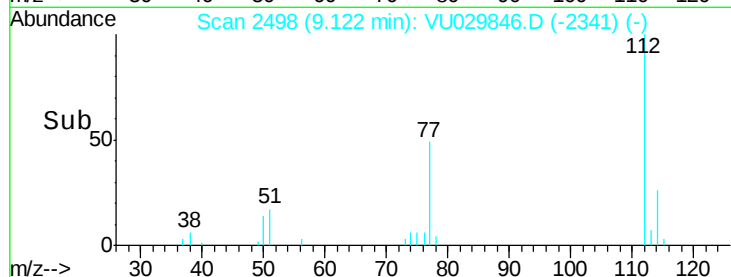
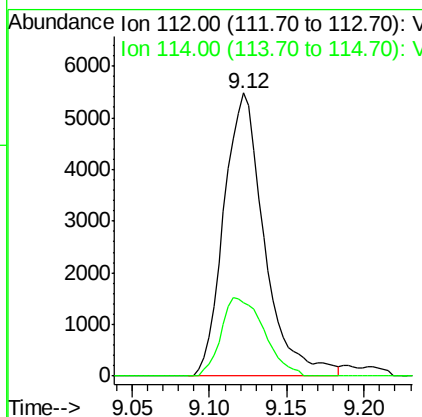
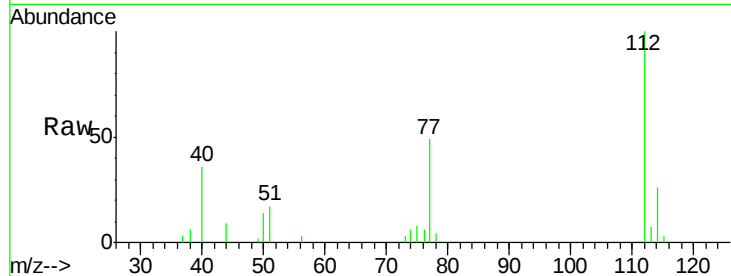
#59
Chlorobenzene
Concen: 0.225 ug/l
RT: 9.12 min Scan# 2498
Delta R.T. 0.01 min
Lab File: VU029846.D
Acq: 07 Mar 2019 10:49

Instrument :
MSVOA_U
ClientSampleId :
MDL03

Tot Ion:112 Resp: 9967
Ion Ratio Lower Upper
112 100
114 26.0 25.4 38.2

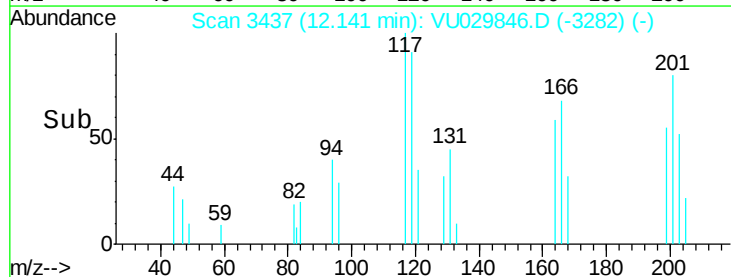
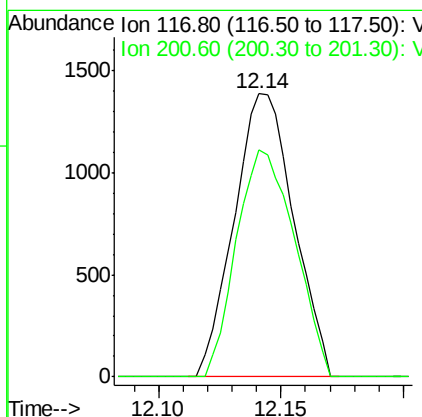
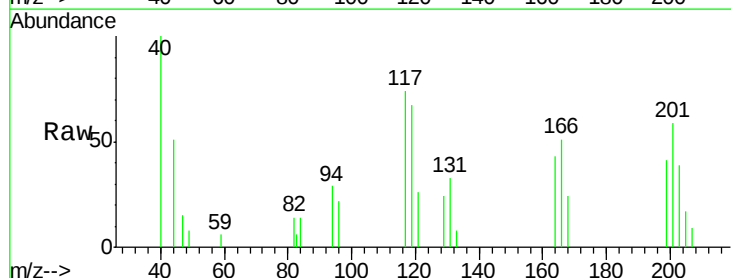
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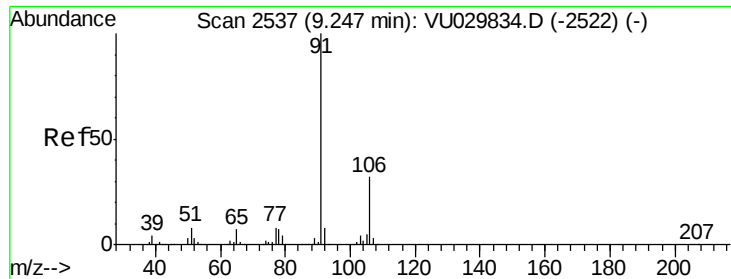
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#62
Hexachloroethane
Concen: 0.201 ug/l
RT: 12.14 min Scan# 3437
Delta R.T. -0.00 min
Lab File: VU029846.D
Acq: 07 Mar 2019 10:49

Tgt Ion:117 Resp: 2348
Ion Ratio Lower Upper
117 100
201 78.1 68.2 102.2





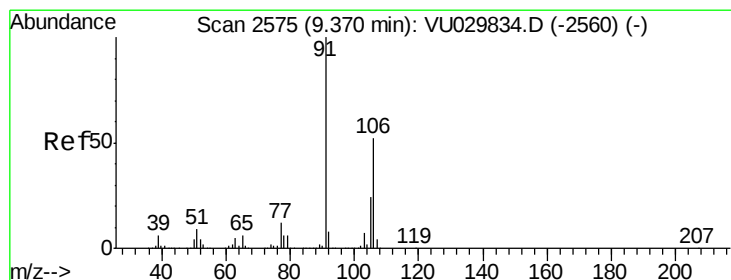
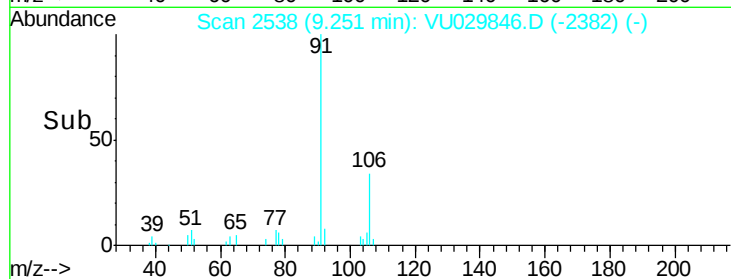
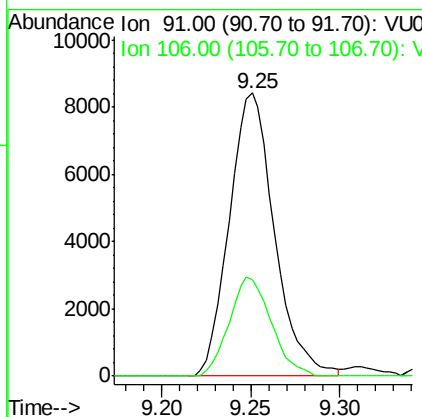
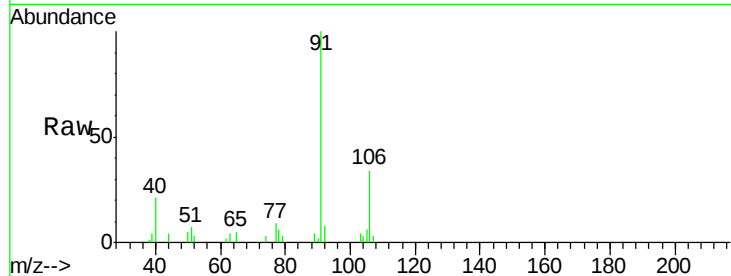
#63
Ethyl Benzene
Concen: 0.204 ug/l
RT: 9.25 min Scan# 2538
Delta R.T. 0.00 min
Lab File: VU029846.D
Acq: 07 Mar 2019 10:49

Instrument :
MSVOA_U
ClientSampleId :
MDL03

Tot Ion: 91 Resp: 14808
Ion Ratio Lower Upper
91 100
106 34.1 25.7 38.5

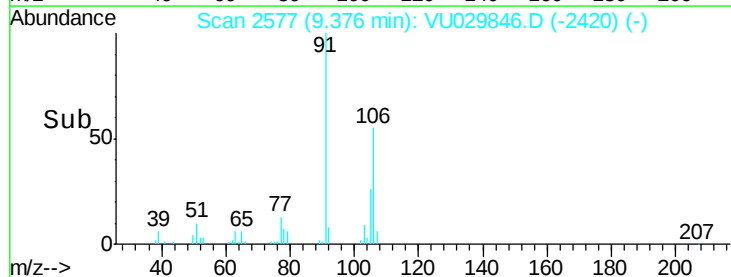
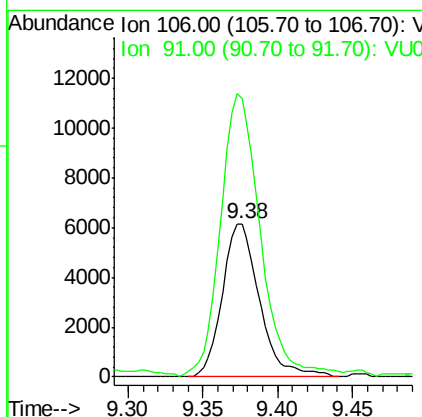
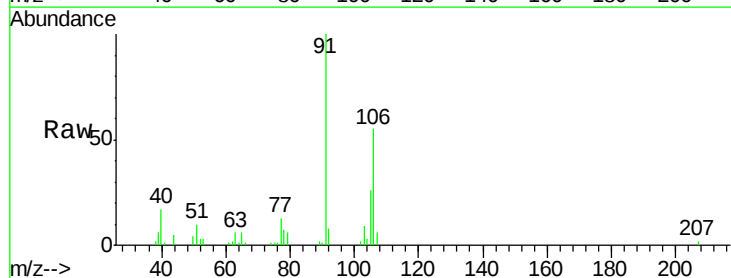
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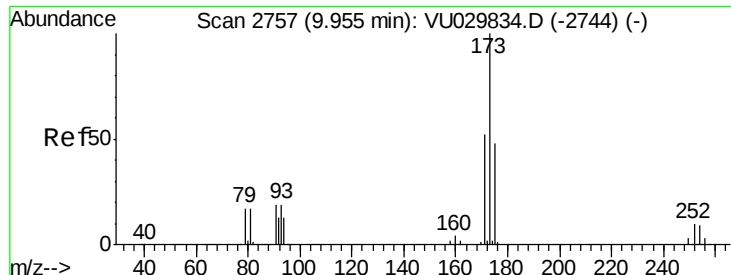
MMDadoda
3/11/2019 6:48:14 PM



#64
m/p-Xylenes
Concen: 0.370 ug/l
RT: 9.38 min Scan# 2577
Delta R.T. 0.01 min
Lab File: VU029846.D
Acq: 07 Mar 2019 10:49

Tgt Ion: 106 Resp: 10632
Ion Ratio Lower Upper
106 100
91 199.1 155.3 232.9





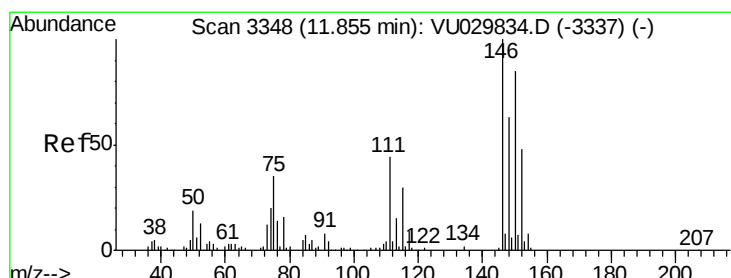
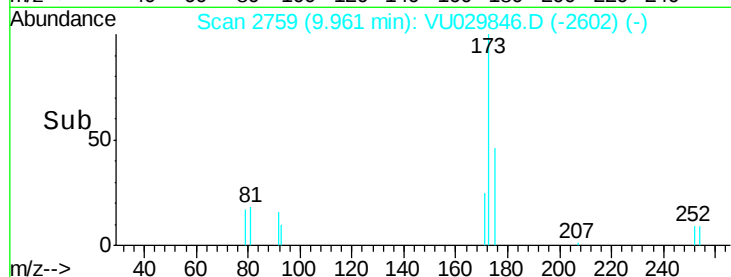
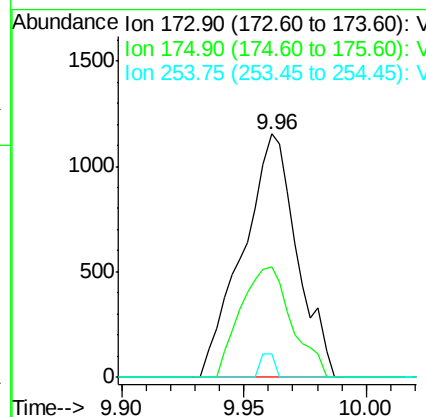
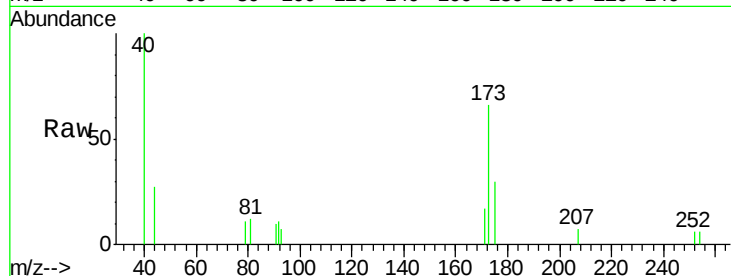
#67
Bromoform
Concen: 0.209 ug/l
RT: 9.96 min Scan# 2759
Delta R.T. 0.01 min
Lab File: VU029846.D
Acq: 07 Mar 2019 10:49

Instrument :
MSVOA_U
ClientSampleId :
MDL03

Tot Ion	Ratio	Lower	Upper
173	100		
175	42.9	38.6	57.8
254	2.4	7.4	11.2#

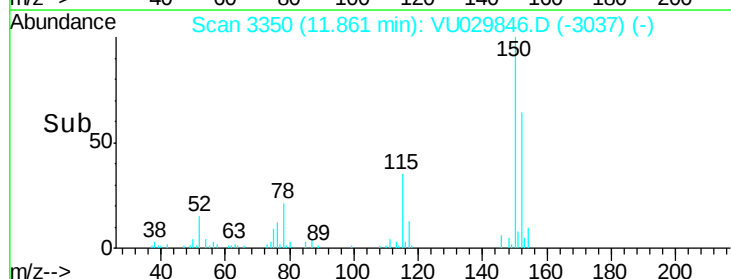
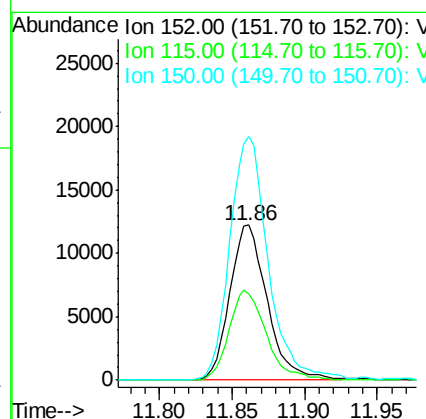
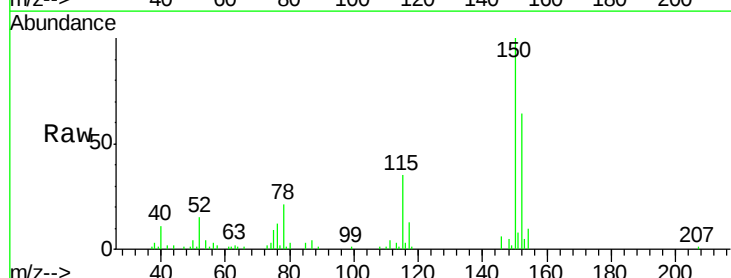
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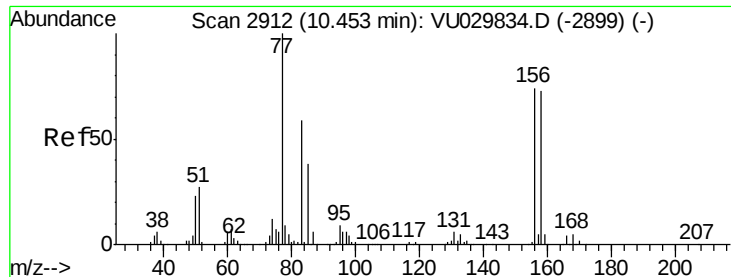
MMDadoda
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#68
1,2-Dichlorobenzene-d4
Concen: 0.209 ug/l
RT: 11.86 min Scan# 3350
Delta R.T. 0.01 min
Lab File: VU029846.D
Acq: 07 Mar 2019 10:49

Tgt Ion	Ratio	Lower	Upper
152	100		
115	57.4	0.0	124.0
150	161.0	0.0	631.2





#70

1,1,2,2-Tetrachloroethane

Concen: 0.208 ug/l

RT: 10.46 min Scan# 2913

Delta R.T. 0.00 min

Lab File: VU029846.D

Acq: 07 Mar 2019 10:49

Instrument :

MSVOA_U

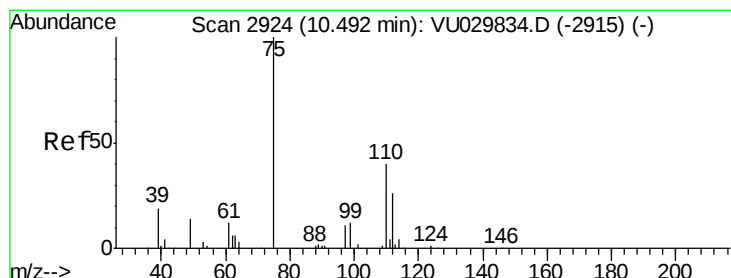
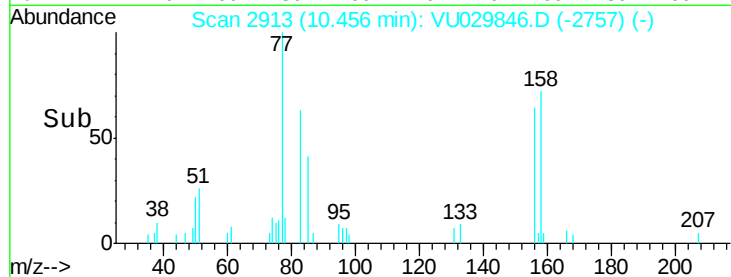
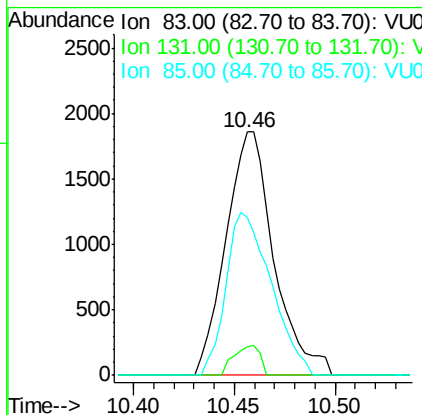
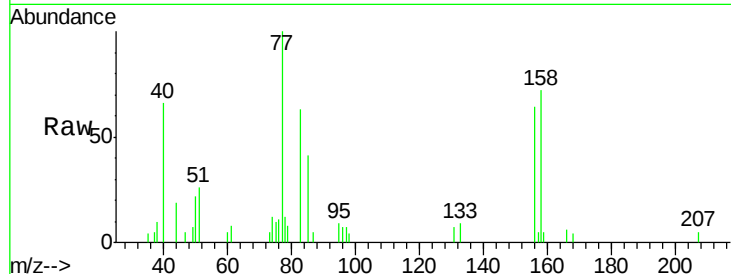
ClientSampled :

MDL03

Tot Ion:	83	Resp:	3091
Ion Ratio	Lower	Upper	
83	100		
131	6.7	8.3	12.5#
85	63.2	52.5	78.7

Manual Integrations
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3/11/2019 6:48:14 PM



#71

1,2,3-Trichloropropane

Concen: 0.216 ug/l m

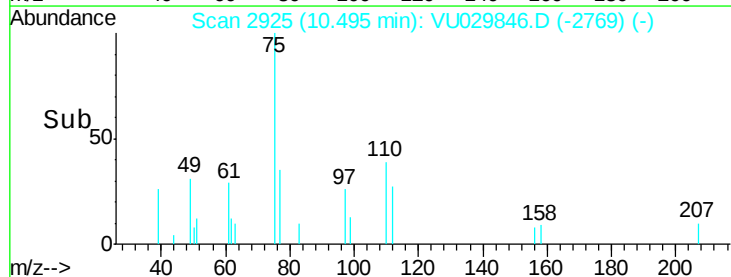
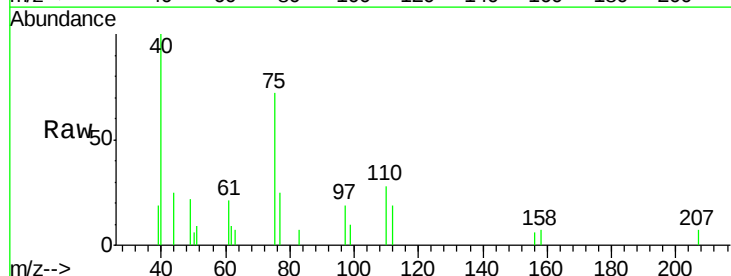
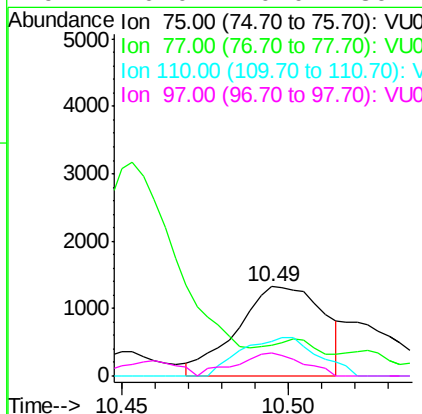
RT: 10.49 min Scan# 2925

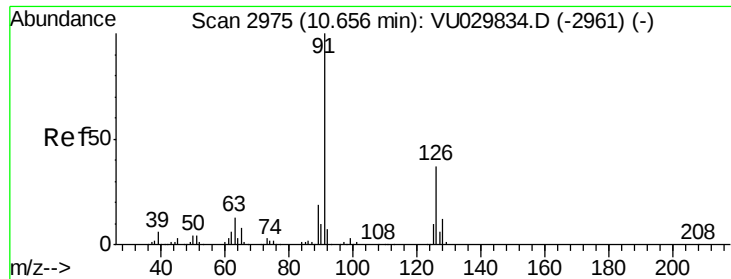
Delta R.T. 0.00 min

Lab File: VU029846.D

Acq: 07 Mar 2019 10:49

Tgt Ion:	75	Resp:	2385
Ion Ratio	Lower	Upper	
75	100		
77	29.9	0.0	16.4#
110	38.2	0.0	74.8
97	20.0	0.0	39.4





#74

2-Chlorotoluene

Concen: 0.201 ug/l

RT: 10.66 min Scan# 2976

Delta R.T. 0.00 min

Lab File: VU029846.D

Acq: 07 Mar 2019 10:49

Instrument :

MSVOA_U

ClientSampled :

MDL03

Tot Ion:126 Resp: 3659

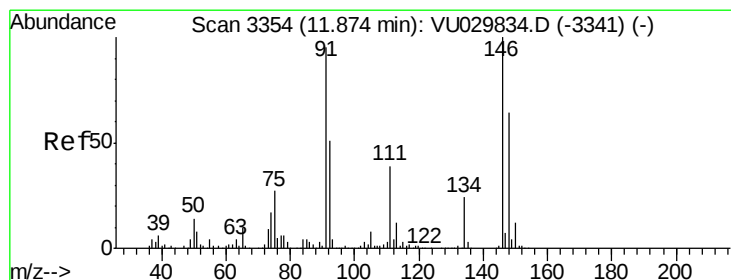
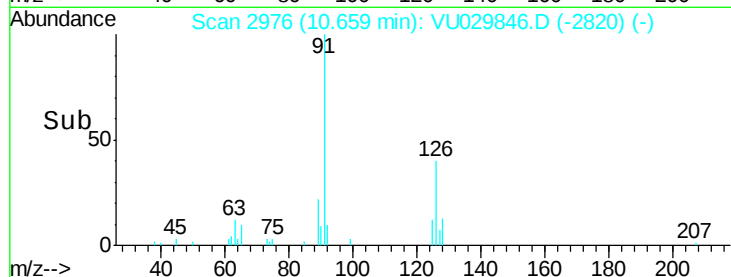
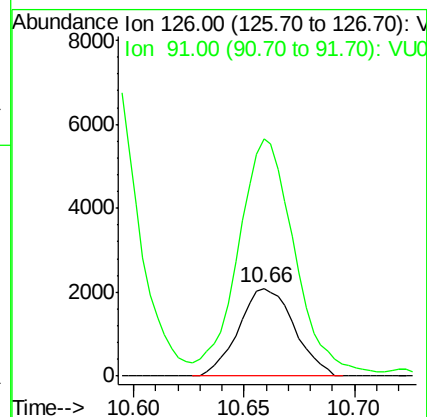
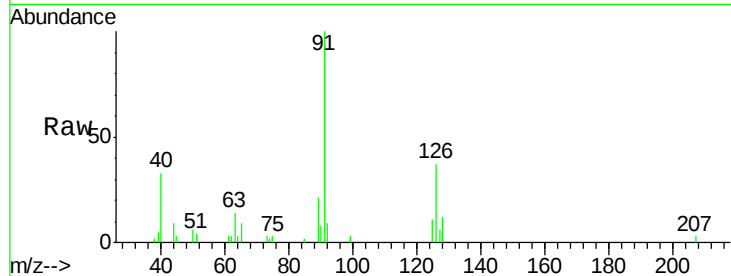
Ion Ratio Lower Upper

126 100

91 265.3 0.0 569.0

Manual Integrations
APPROVED

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3/11/2019 6:48:14 PM



#85

1,2-Dichlorobenzene

Concen: 0.202 ug/l

RT: 11.88 min Scan# 3355

Delta R.T. 0.00 min

Lab File: VU029846.D

Acq: 07 Mar 2019 10:49

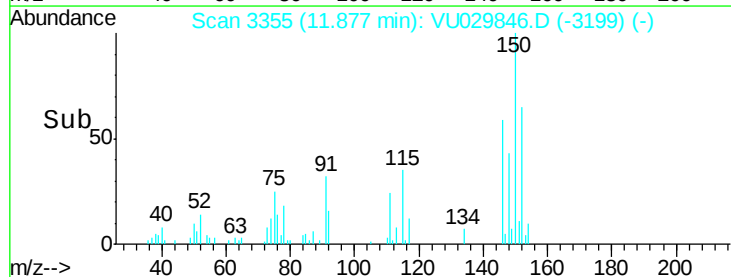
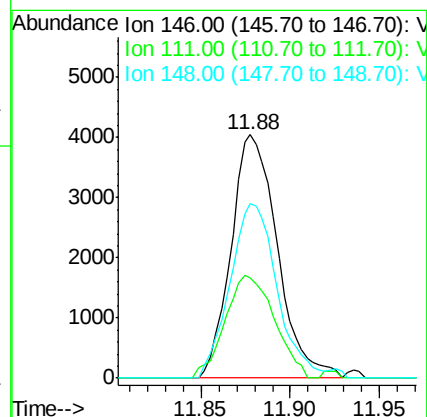
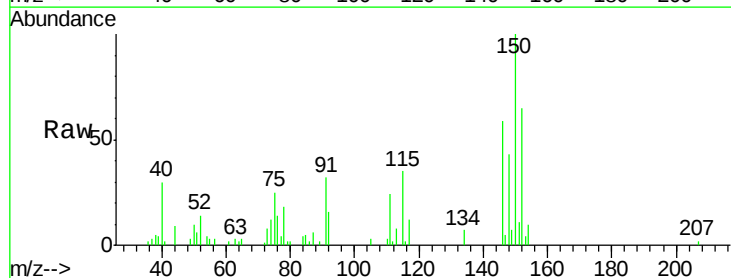
Tgt Ion:146 Resp: 7300

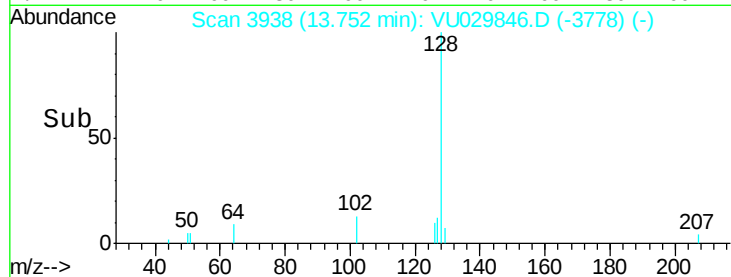
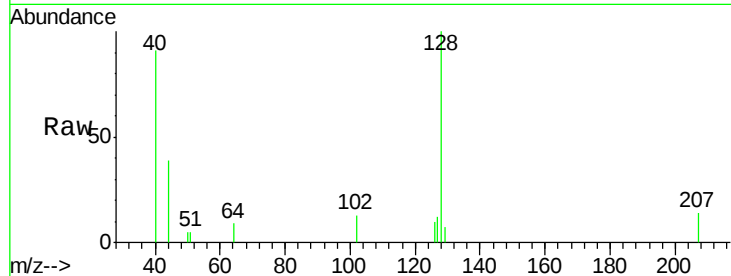
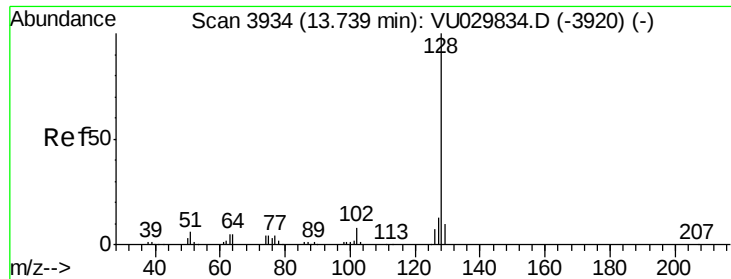
Ion Ratio Lower Upper

146 100

111 44.8 19.9 59.6

148 72.7 32.1 96.3





#89

Naphthalene

Concen: 0.577 ug/l m

RT: 13.75 min Scan# 3938

Delta R.T. 0.01 min

Lab File: VU029846.D

Acq: 07 Mar 2019 10:49

Instrument :

MSVOA_U

ClientSampleId :

MDL03

Tot Ion	Ratio	Lower	Upper
128	100		
127	5.2	10.2	15.4#
129	2.7	8.2	12.4#

Manual Integrations
APPROVED

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