

Data Path : Z:\VOASRV\HPCHEM1\MSVOA U\DATA\U030819\
 Data File : VU029847.D
 Acq On : 07 Mar 2019 11:17
 Operator : JC/SP
 Sample : MDL04
 Misc : 25.0mL/MSVOA U/WATER
 ALS Vial : 5 Sample Multiplier: 1

Instrument :
 MSVOA_U
 ClientSampleId :
 MDL04

Manual Integrations
 APPROVED

MMDadoda
 3/11/2019 6:48:21 PM

Quant Time: Mar 08 22:25:39 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	60044	1.00	ug/l	0.00
System Monitoring Compounds						
57) 4-Bromofluorobenzene	10.31	95	19363	0.90	ug/l	0.00
Spiked Amount 1.000			Recovery	=	90.00%	
68) 1,2-Dichlorobenzene-d4	11.86	152	22438	0.90	ug/l	0.00
Spiked Amount 1.000			Recovery	=	90.00%	
Target Compounds						
					Ovalue	
2) Dichlorodifluoromethane	1.20	85	4891	0.243	ug/l	96
3) Chloromethane	1.33	50	4690	0.262	ug/l	97
4) Vinyl Chloride	1.40	62	5169	0.257	ug/l	98
5) Bromomethane	1.63	94	3885	0.283	ug/l	96
6) Chloroethane	1.70	64	3126	0.259	ug/l	99
7) Trichlorofluoromethane	1.88	101	6794	0.248	ug/l	96
8) 1,1,2-Trichloro-1,2,2-trif	2.29	101	4073	0.255	ug/l	97
9) 1,1-Dichloroethene	2.28	96	3601	0.231	ug/l	81
10) Iodomethane	2.41	142	2931	0.740	ug/l	94
11) Allyl Chloride	2.59	41	5698	0.260	ug/l	94
12) Acrylonitrile	2.93	53	1928	0.566	ug/l #	95
13) Acetone	2.32	43	4316	1.530	ug/l #	86
14) Carbon Disulfide	2.47	76	12169	0.241	ug/l	96
15) Methylene Chloride	2.69	84	6864	0.366	ug/l	97
16) trans-1,2-Dichloroethene	2.97	96	4531	0.257	ug/l #	80
17) 1,1-Dichloroethane	3.44	63	7014	0.238	ug/l	98
18) 2-Butanone	4.29	43	4493	1.172	ug/l	98
19) Cyclohexane	4.98	56	5150m	0.225	ug/l	
20) Methylcyclohexane	6.41	83	5758m	0.216	ug/l	
21) 2,2-Dichloropropane	4.22	77	6110	0.253	ug/l #	87
22) cis-1,2-Dichloroethene	4.22	96	4359	0.233	ug/l	90
23) Diethyl Ether	2.10	59	2882	0.246	ug/l #	91
24) tert-Butyl Alcohol	2.84	59	3925	3.250	ug/l #	85
25) Methyl tert-Butyl Ether	3.00	73	9570	0.243	ug/l	95
26) Bromochloromethane	4.55	128	2071	0.249	ug/l	88
27) Chloroform	4.67	83	7111	0.238	ug/l	84
28) 1,1,1-Trichloroethane	4.91	97	5690m	0.225	ug/l	
29) 1,1-Dichloropropene	5.13	75	5144	0.228	ug/l	95
30) Carbon Tetrachloride	5.13	117	4709	0.213	ug/l	100
31) Isopropyl Ether	3.57	45	9758	0.240	ug/l	97
32) Ethyl-t-butyl ether	4.07	59	9504	0.240	ug/l	100
33) Tert-Amyl methyl ether	5.58	73	8301	0.227	ug/l #	93
34) Propionitrile	4.35	54	826m	0.724	ug/l	
35) Benzene	5.39	78	16137	0.243	ug/l	99
36) 1,2-Dichloroethane	5.41	62	4229	0.233	ug/l	95
37) Trichloroethene	6.19	130	4409	0.228	ug/l	100
38) 1,2-Dichloropropane	6.43	63	3697	0.220	ug/l #	82
40) Methyl acrylate	4.44	55	1618m	0.213	ug/l	
41) Tetrahydrofuran	4.66	42	1151	0.459	ug/l #	53
42) 1-Chlorobutane	5.06	56	7138	0.248	ug/l	92
43) Dibromomethane	6.56	93	2062	0.237	ug/l	94

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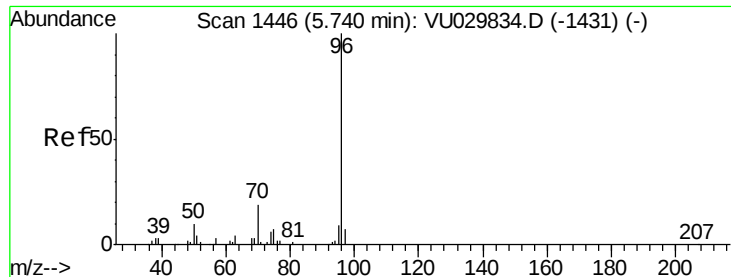
Manual Integrations
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 3/11/2019 6:48:21 PM

Quant Time: Mar 08 22:25:39 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)
44) Bromodichloromethane	6.76	83	4714	0.221	ug/l #	96
45) 4-Methyl-2-Pentanone	7.47	43	9146	1.008	ug/l	99
46) t-1,4-Dichloro-2-butene	10.51	75	1270m	0.335	ug/l	
47) Methyl methacrylate	6.63	69	3001	0.402	ug/l	94
49) Toluene	7.64	92	8482	0.208	ug/l	98
50) t-1,3-Dichloropropene	7.88	75	3812	0.203	ug/l	99
51) cis-1,3-Dichloropropene	7.27	75	4929	0.213	ug/l	91
52) 1,1,2-Trichloroethane	8.07	97	2948	0.229	ug/l	90
53) 1,3-Dichloropropane	8.24	76	4839	0.229	ug/l	91
54) 2-Hexanone	8.38	43	5506	0.873	ug/l	93
55) Dibromochloromethane	8.47	129	3229	0.211	ug/l	98
56) 1,2-Dibromoethane	8.58	107	2670	0.219	ug/l	99
58) Tetrachloroethene	8.22	164	4970	0.251	ug/l	92
59) Chlorobenzene	9.12	112	10292	0.220	ug/l	99
60) 1,1,1,2-Tetrachloroethane	9.21	131	3846	0.229	ug/l	99
61) Pentachloroethane	11.10	117	2346	0.201	ug/l	96
63) Ethyl Benzene	9.25	91	15448	0.201	ug/l	100
64) m/p-Xylenes	9.38	106	11768	0.388	ug/l	99
65) o-Xylene	9.78	106	5987	0.206	ug/l	100
69) Isopropylbenzene	10.16	105	15808	0.205	ug/l	99
70) 1,1,2,2-Tetrachloroethane	10.46	83	3488	0.222	ug/l	97
71) 1,2,3-Trichloropropane	10.49	75	2490m	0.213	ug/l	
72) Bromobenzene	10.45	156	4481	0.219	ug/l	98
82) 1,3-Dichlorobenzene	11.42	146	8886	0.219	ug/l	98
83) 1,4-Dichlorobenzene	11.51	146	8624	0.218	ug/l	93
85) 1,2-Dichlorobenzene	11.88	146	8531	0.223	ug/l	98
88) Hexachlorobutadiene	13.69	225	3369	0.219	ug/l	98
89) Naphthalene	13.76	128	4981	0.558	ug/l #	86

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



#1

Fluorobenzene

Concen: 1.000 ug/l

RT: 5.74 min Scan# 1446

Delta R.T. -0.00 min

Lab File: VU029847.D

Acq: 07 Mar 2019 11:17

Instrument :

MSVOA_U

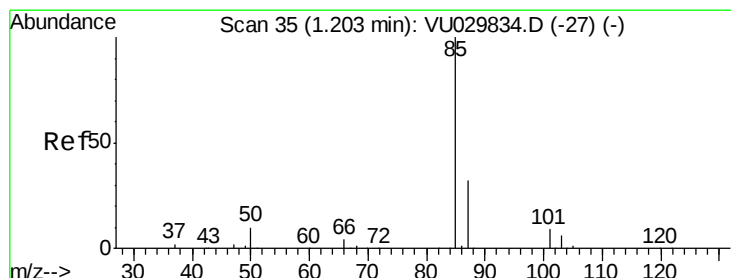
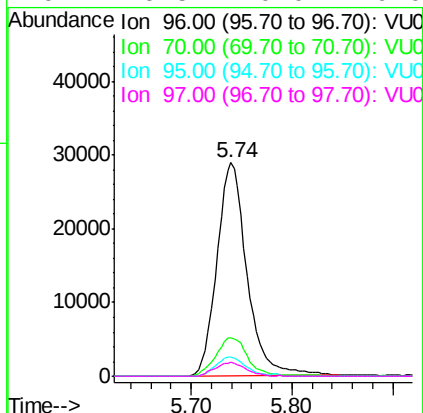
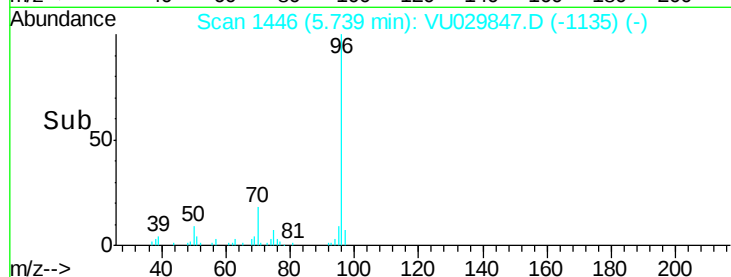
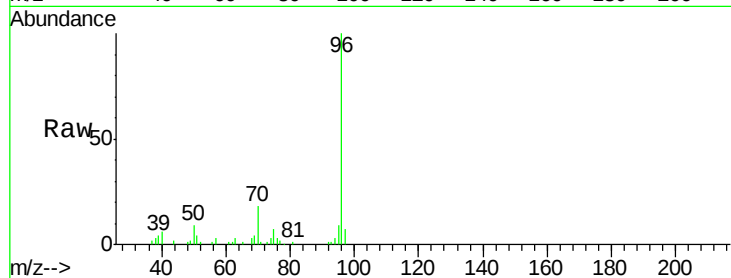
ClientSampleId :

MDL04

Tot Ion:	96	Resp:	60044
Ion	Ratio	Lower	Upper
96	100		
70	18.5	14.4	21.6
95	8.1	7.0	10.6
97	6.5	0.0	0.0#

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#2

Dichlorodifluoromethane

Concen: 0.243 ug/l

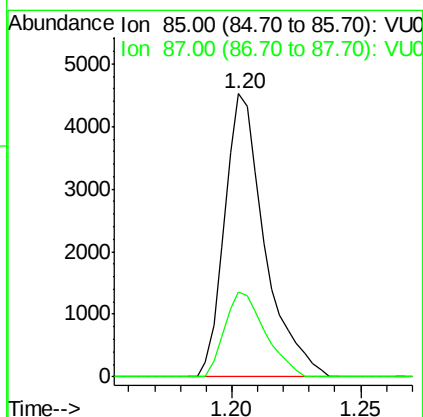
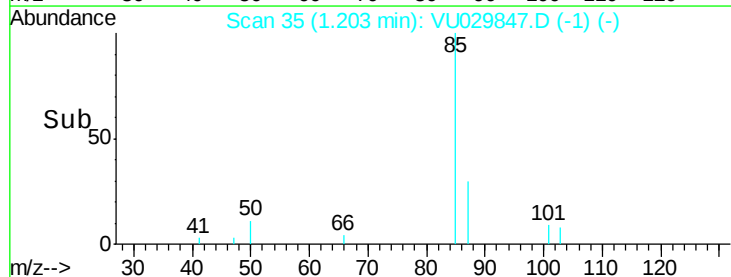
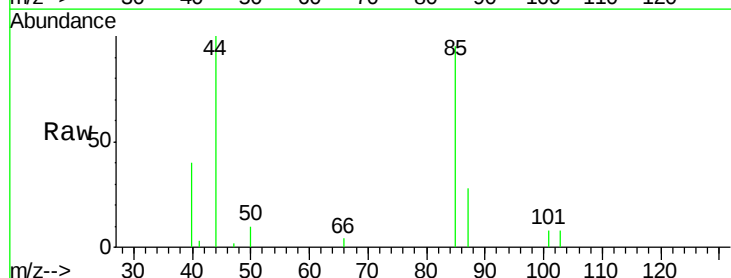
RT: 1.20 min Scan# 35

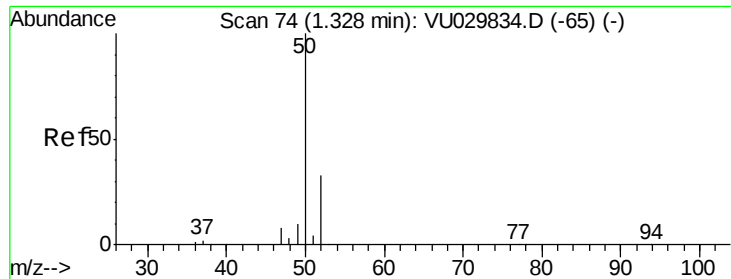
Delta R.T. -0.00 min

Lab File: VU029847.D

Acq: 07 Mar 2019 11:17

Tgt Ion:	85	Resp:	4891
Ion	Ratio	Lower	Upper
85	100		
87	29.9	16.2	48.6





#3

Chloromethane

Concen: 0.262 ug/l

RT: 1.33 min Scan# 74

Delta R.T. -0.00 min

Lab File: VU029847.D

Acq: 07 Mar 2019 11:17

Instrument :

MSVOA_U

ClientSampled :

MDL04

Tot Ion: 50 Resp: 4690

Ion Ratio Lower Upper

50 100

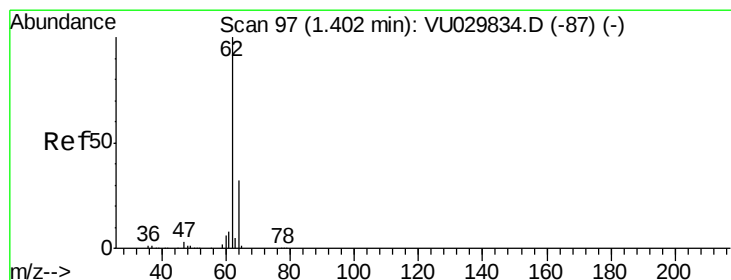
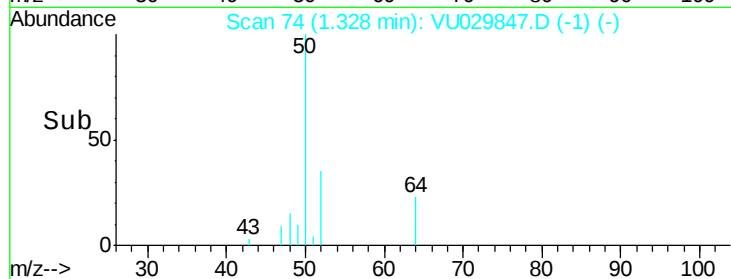
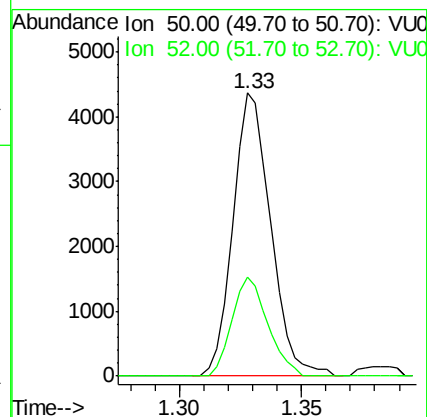
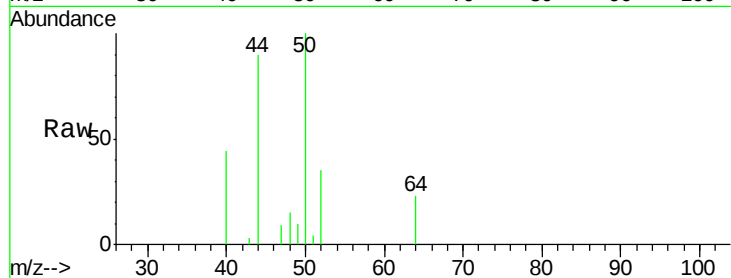
52 35.0 26.5 39.7

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#4

Vinyl Chloride

Concen: 0.257 ug/l

RT: 1.40 min Scan# 97

Delta R.T. -0.00 min

Lab File: VU029847.D

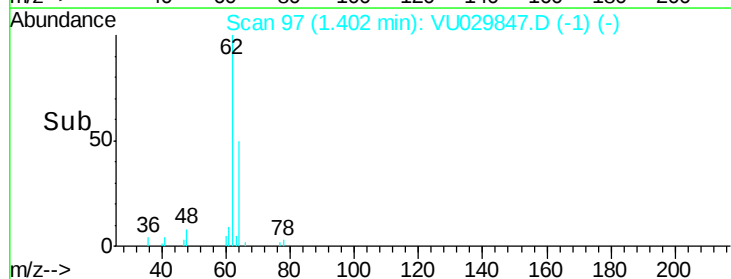
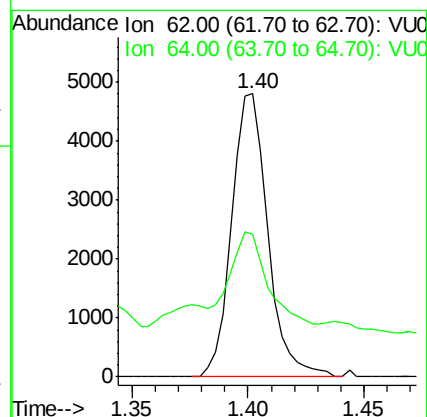
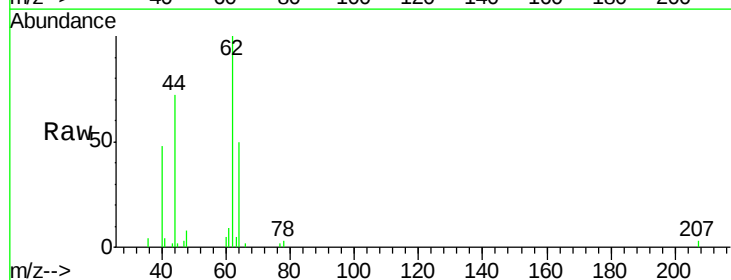
Acq: 07 Mar 2019 11:17

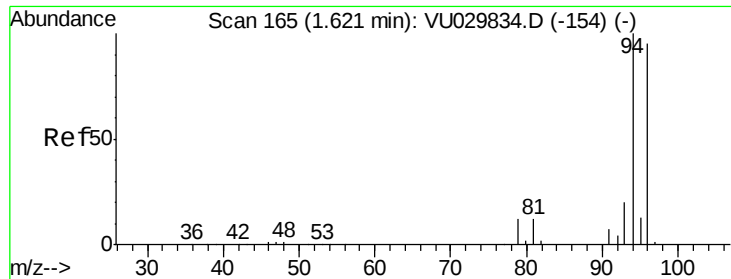
Tgt Ion: 62 Resp: 5169

Ion Ratio Lower Upper

62 100

64 31.0 25.7 38.5





#5

Bromomethane

Concen: 0.283 ug/l

RT: 1.63 min Scan# 167

Delta R.T. 0.01 min

Lab File: VU029847.D

Acq: 07 Mar 2019 11:17

Instrument :

MSVOA_U

ClientSampleId :

MDL04

Tot Ion: 94 Resp: 3885

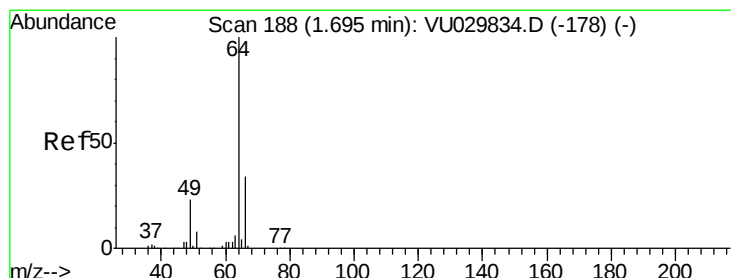
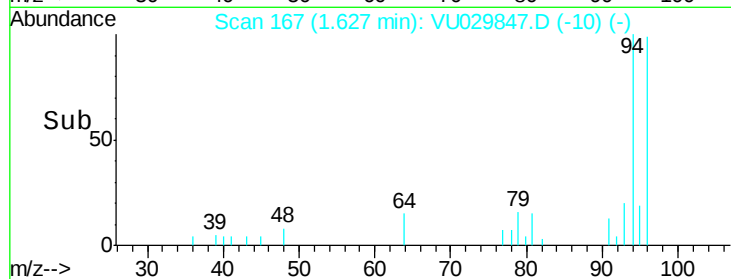
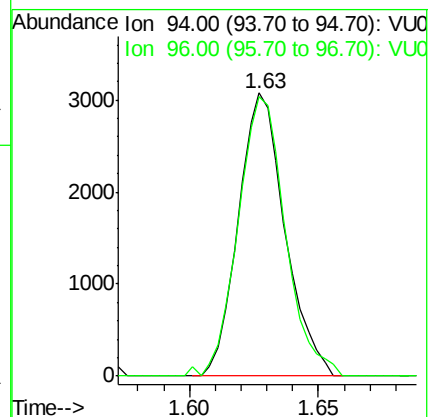
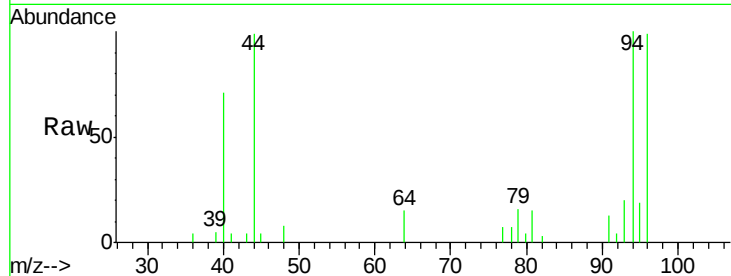
Ion Ratio Lower Upper

94 100

96 98.9 76.4 114.6

Manual Integrations
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#6

Chloroethane

Concen: 0.259 ug/l

RT: 1.70 min Scan# 189

Delta R.T. 0.00 min

Lab File: VU029847.D

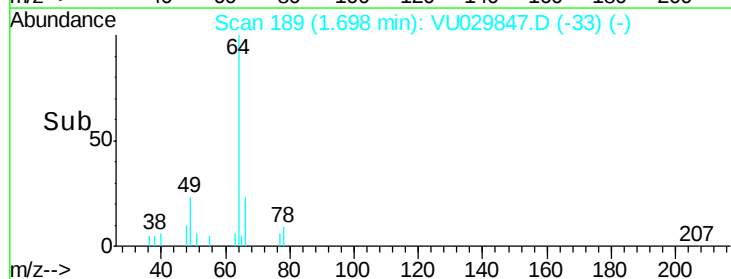
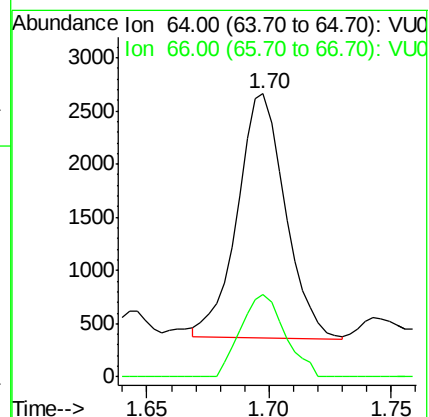
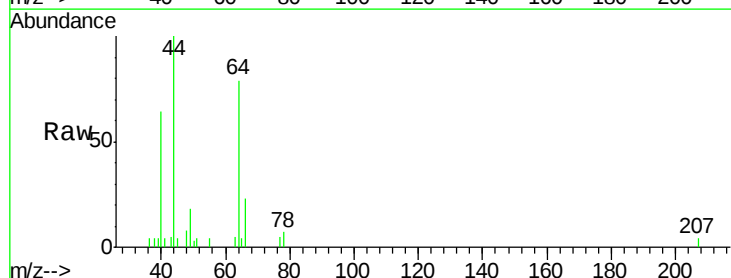
Acq: 07 Mar 2019 11:17

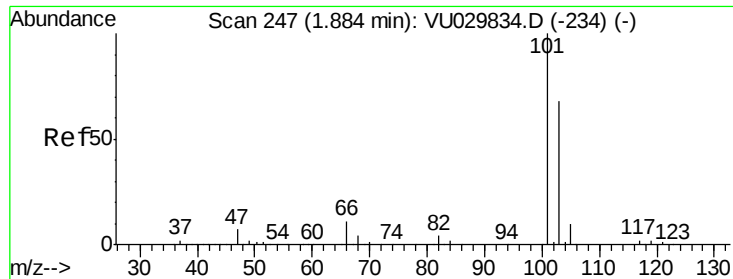
Tgt Ion: 64 Resp: 3126

Ion Ratio Lower Upper

64 100

66 33.8 27.3 40.9





#7

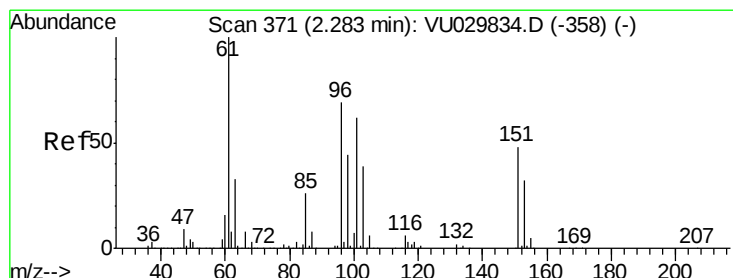
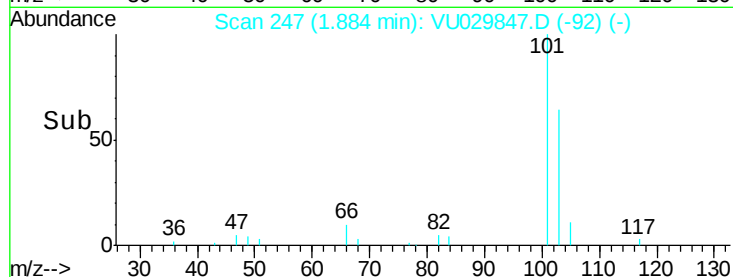
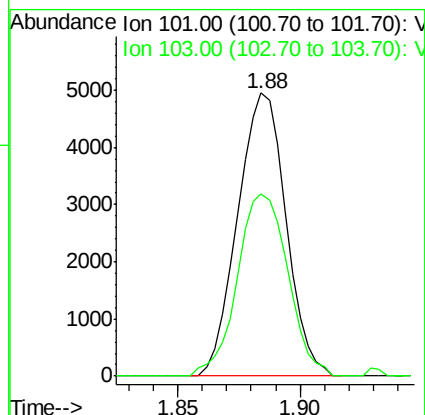
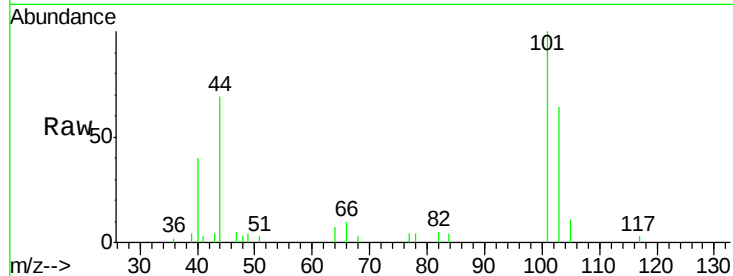
Trichlorofluoromethane
Concen: 0.248 ug/l
RT: 1.88 min Scan# 247
Delta R.T. -0.00 min
Lab File: VU029847.D
Acq: 07 Mar 2019 11:17

Instrument :
MSVOA_U
ClientSampleId :
MDL04

Tot Ion	Ratio	Lower	Upper
101	100		
103	64.2	54.2	81.2

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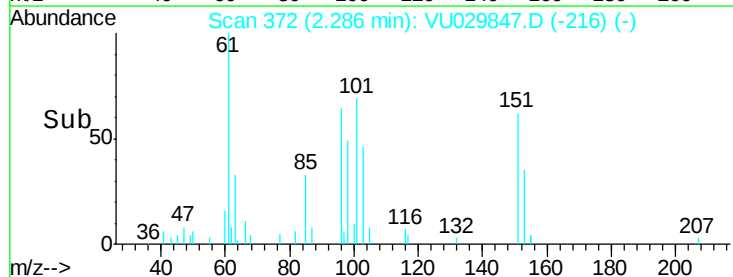
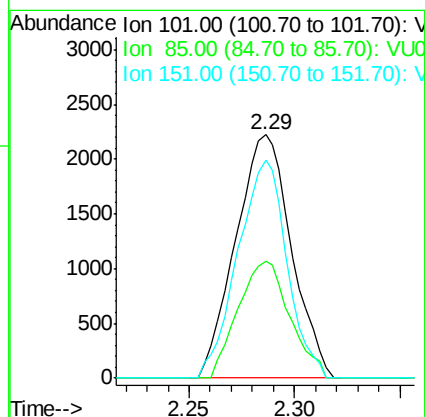
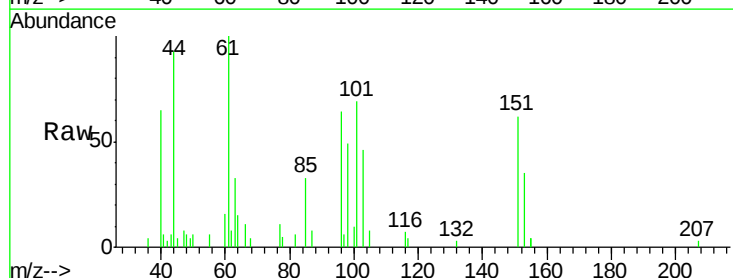
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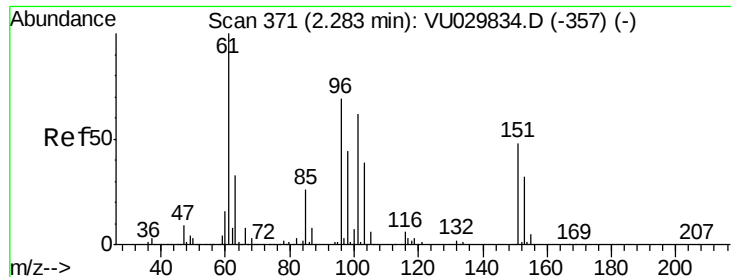


#8

1,1,2-Trichloro-1,2,2-trifluoroethane
Concen: 0.255 ug/l
RT: 2.29 min Scan# 372
Delta R.T. 0.00 min
Lab File: VU029847.D
Acq: 07 Mar 2019 11:17

Tgt Ion	Ratio	Lower	Upper
101	100		
85	44.6	33.4	50.0
151	79.4	64.6	97.0





#9

1,1-Dichloroethene

Concen: 0.231 ug/l

RT: 2.28 min Scan# 370

Delta R.T. -0.00 min

Lab File: VU029847.D

Acq: 07 Mar 2019 11:17

Instrument :

MSVOA_U

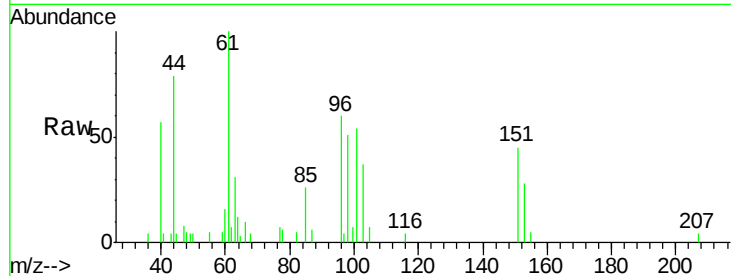
ClientSampleId :

MDL04

Tot Ion:	96	Resp:	3601
Ion	Ratio	Lower	Upper
96	100		
61	165.4	0.0	435.3
98	84.7	0.0	128.6

Manual Integrations
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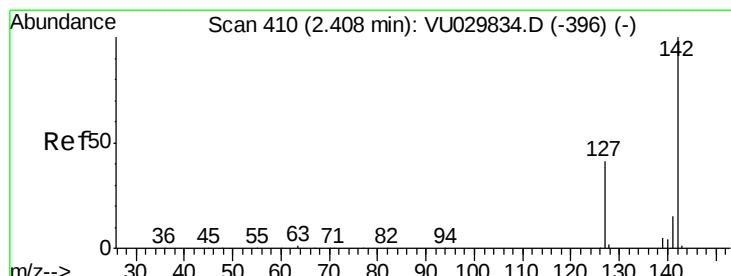
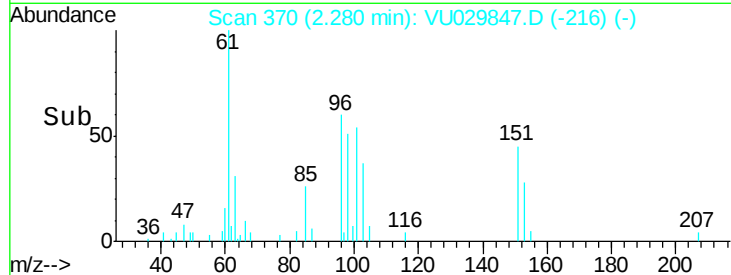
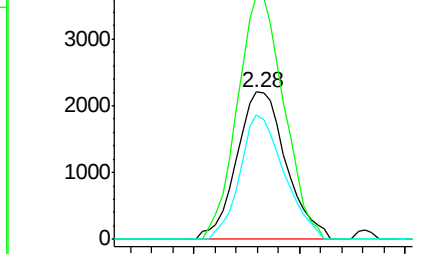
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Abundance Ion 96.00 (95.70 to 96.70): VU029834.D (-357) (-)

Ion 61.00 (60.70 to 61.70): VU029834.D (-357) (-)

Ion 98.00 (97.70 to 98.70): VU029834.D (-357) (-)



#10

Iodomethane

Concen: 0.740 ug/l

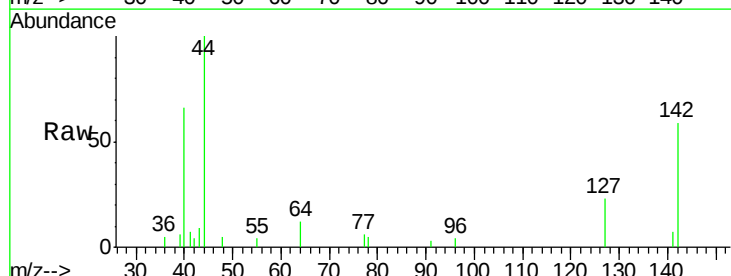
RT: 2.41 min Scan# 410

Delta R.T. 0.00 min

Lab File: VU029847.D

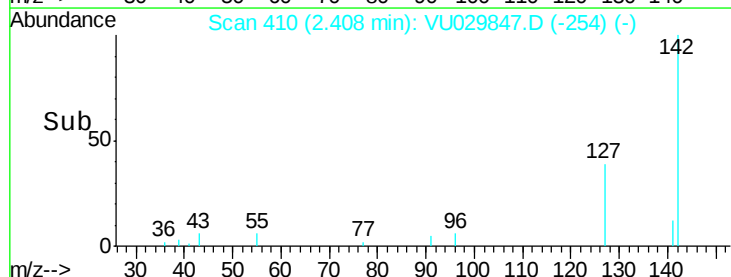
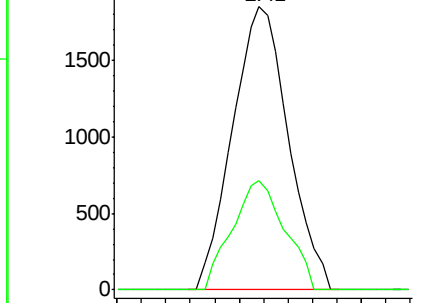
Acq: 07 Mar 2019 11:17

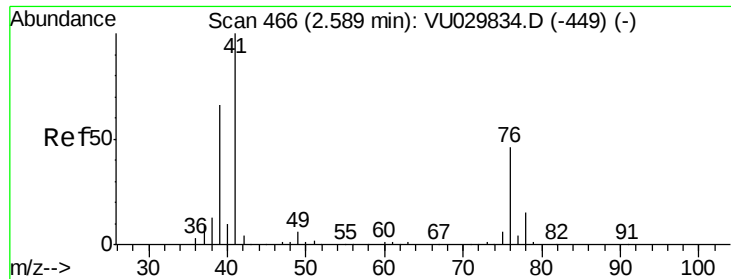
Tgt Ion:	142	Resp:	2931
Ion	Ratio	Lower	Upper
142	100		
127	36.4	32.3	48.5



Abundance Ion 142.00 (141.70 to 142.70): VU029834.D (-396) (-)

Ion 127.00 (126.70 to 127.70): VU029834.D (-396) (-)





#11

Allvl Chloride

Concen: 0.260 ug/l

RT: 2.59 min Scan# 466

Delta R.T. -0.00 min

Lab File: VU029847.D

Acq: 07 Mar 2019 11:17

Instrument :

MSVOA_U

ClientSampled :

MDL04

Tot Ion: 41 Resp: 5698

Ion Ratio Lower Upper

41 100

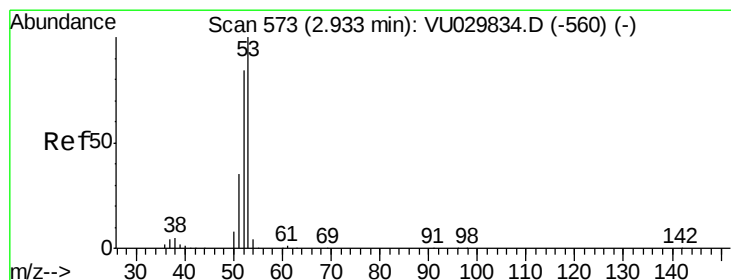
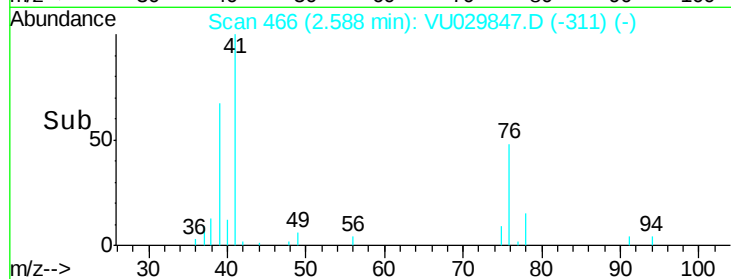
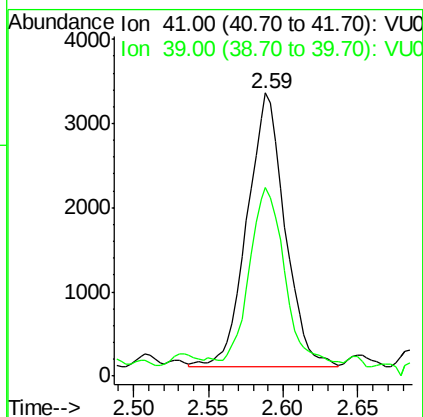
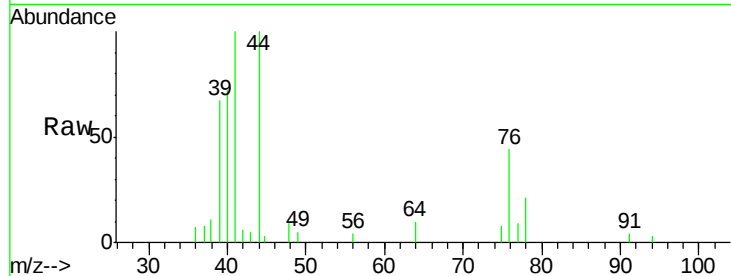
39 59.7 51.6 77.4

Manual Integrations

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#12

Acrylonitrile

Concen: 0.566 ug/l

RT: 2.93 min Scan# 573

Delta R.T. -0.00 min

Lab File: VU029847.D

Acq: 07 Mar 2019 11:17

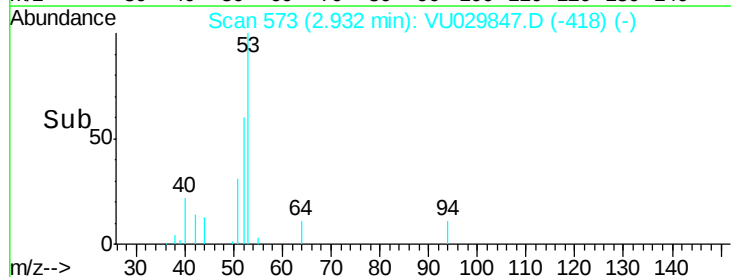
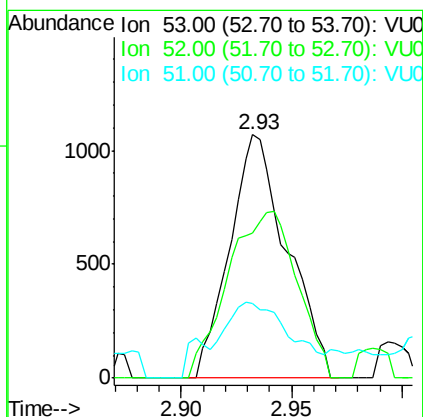
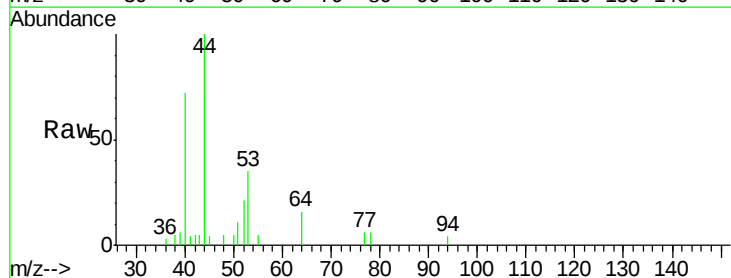
Tgt Ion: 53 Resp: 1928

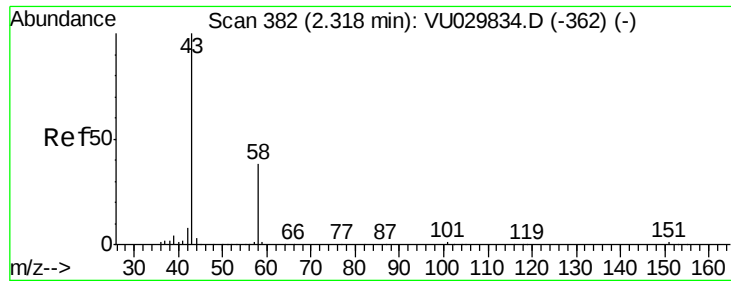
Ion Ratio Lower Upper

53 100

52 82.9 66.5 99.7

51 25.8 28.6 42.8#





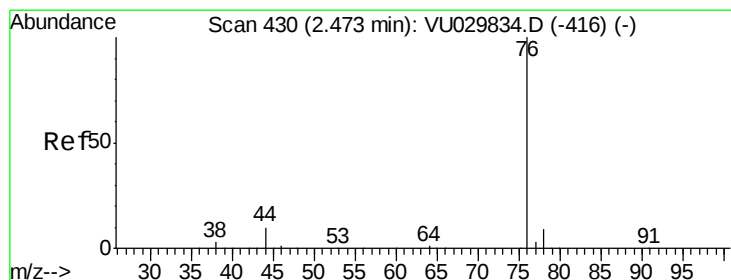
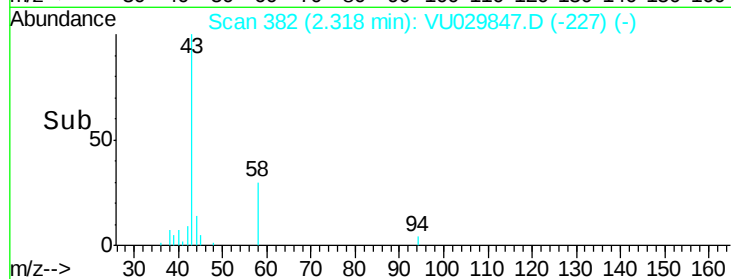
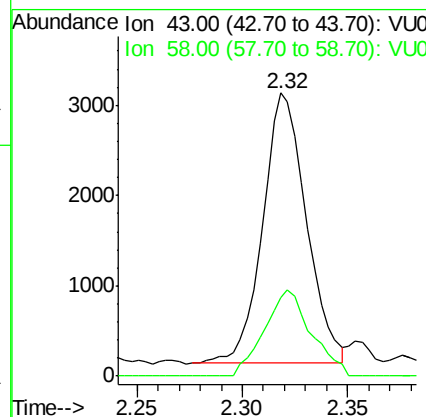
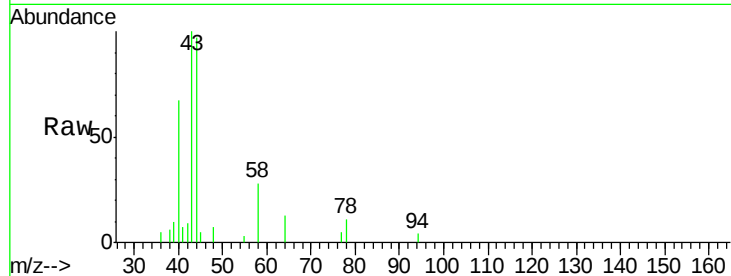
#13
Acetone
Concen: 1.530 ug/l
RT: 2.32 min Scan# 382
Delta R.T. -0.00 min
Lab File: VU029847.D
Acq: 07 Mar 2019 11:17

Instrument :
MSVOA_U
ClientSampleId :
MDL04

Tot Ion	Ratio	Lower	Upper
43	100		
58	29.2	30.2	45.2#

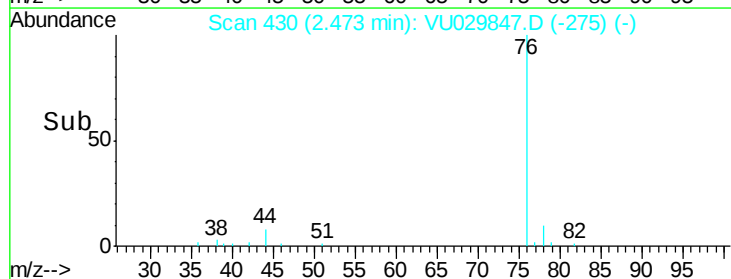
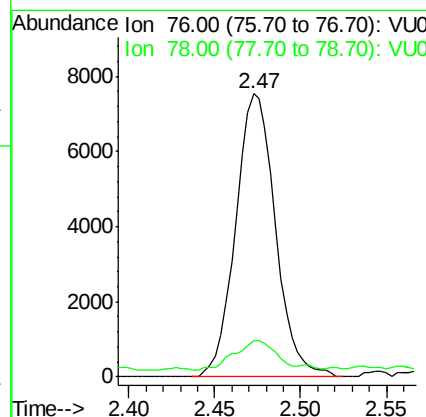
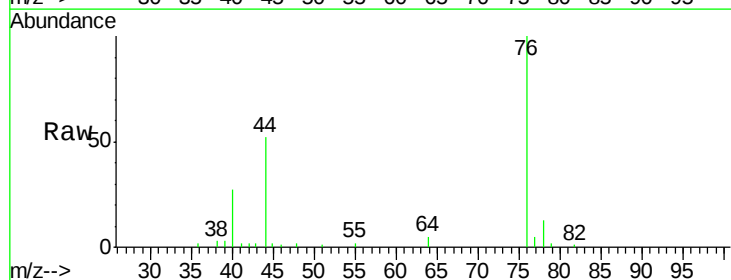
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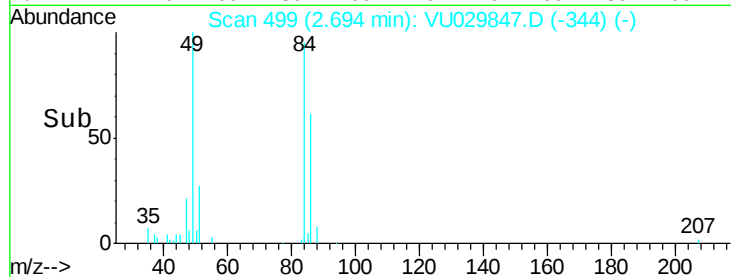
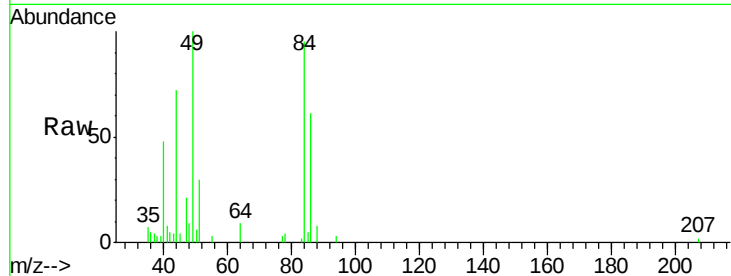
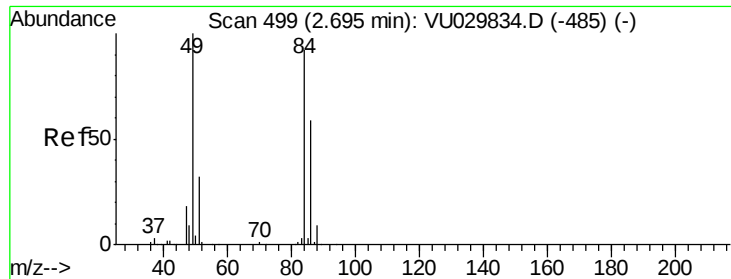
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#14
Carbon Disulfide
Concen: 0.241 ug/l
RT: 2.47 min Scan# 430
Delta R.T. -0.00 min
Lab File: VU029847.D
Acq: 07 Mar 2019 11:17

Tgt Ion	Ratio	Lower	Upper
76	100		
78	10.5	7.2	10.8





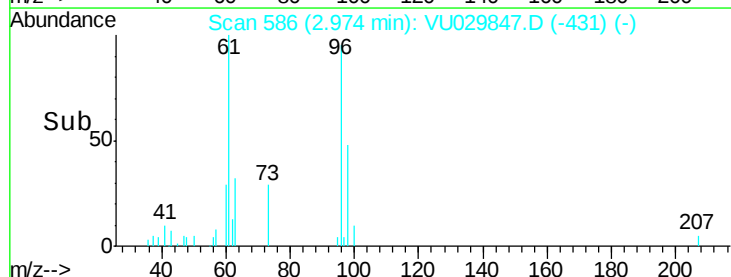
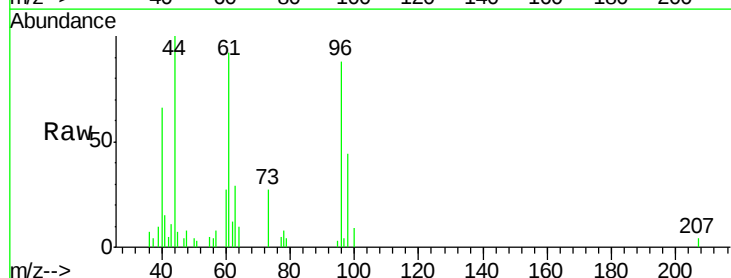
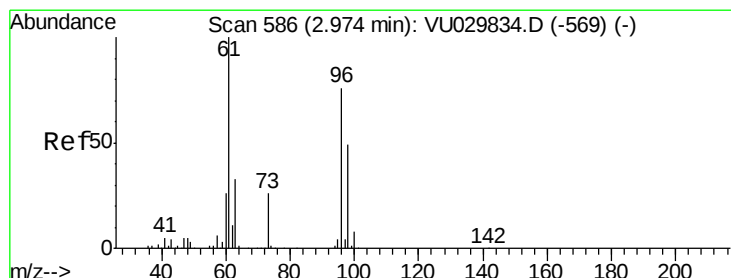
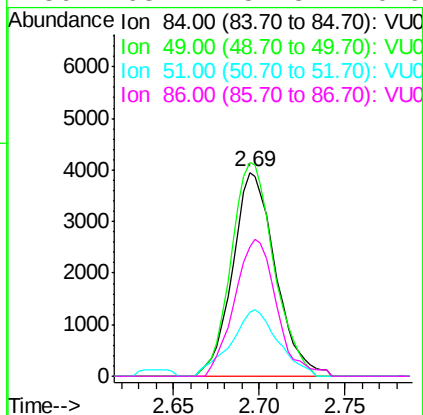
#15
Methvlene Chloride
Concen: 0.366 ug/l
RT: 2.69 min Scan# 499
Delta R.T. -0.00 min
Lab File: VU029847.D
Acq: 07 Mar 2019 11:17

Tot Ion	Ratio	Lower	Upper
84	100		
49	104.9	87.2	130.8
51	31.2	0.0	69.0
86	63.4	51.3	76.9

Instrument :
MSVOA_U
ClientSampleId :
MDL04

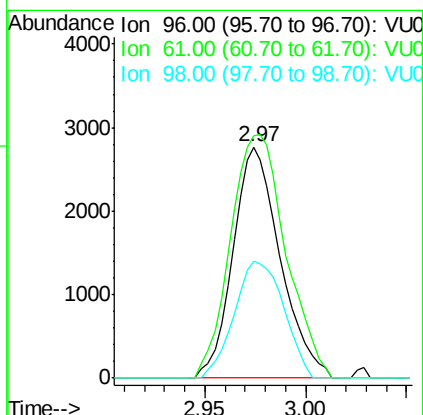
Manual Integrations
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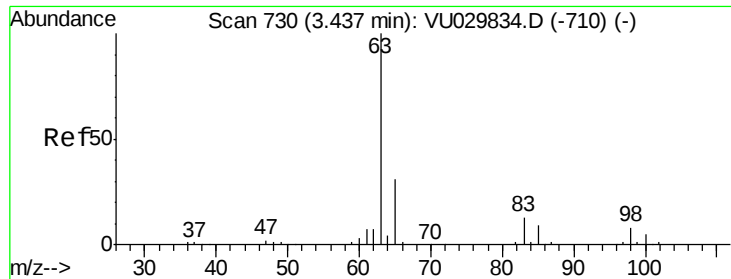
MMDadoda
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#16
trans-1,2-Dichloroethene
Concen: 0.257 ug/l
RT: 2.97 min Scan# 586
Delta R.T. -0.00 min
Lab File: VU029847.D
Acq: 07 Mar 2019 11:17

Tgt Ion	Ratio	Lower	Upper
96	100		
61	105.2	104.7	157.1
98	50.5	50.9	76.3#





#17

1,1-Dichloroethane

Concen: 0.238 ug/l

RT: 3.44 min Scan# 731

Delta R.T. 0.00 min

Lab File: VU029847.D

Acq: 07 Mar 2019 11:17

Instrument :

MSVOA_U

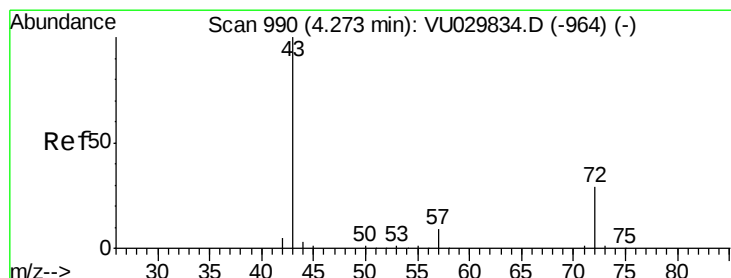
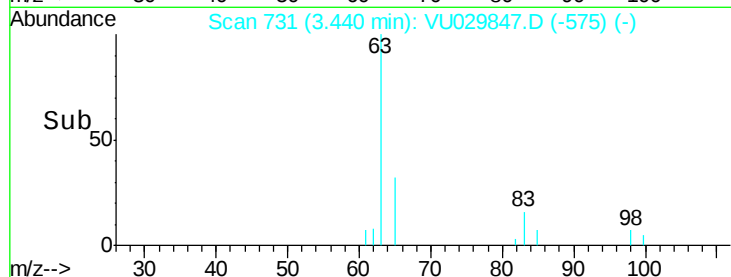
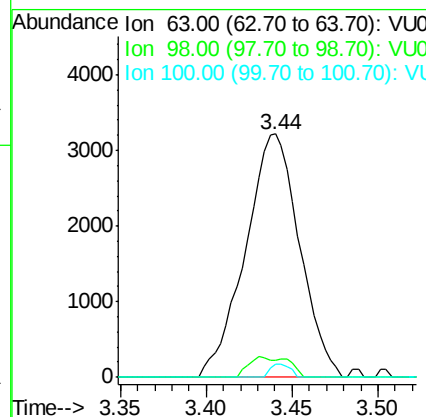
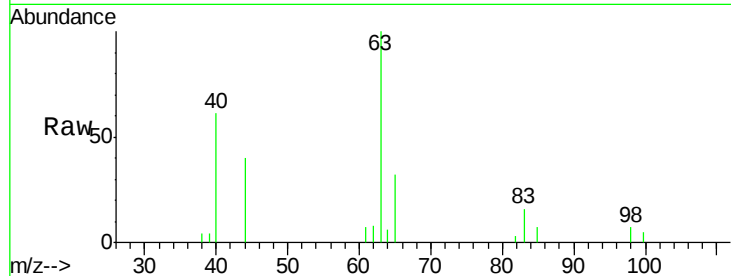
ClientSampleId :

MDL04

Tot Ion:	63	Resp:	7014
Ion	Ratio	Lower	Upper
63	100		
98	6.8	3.8	11.4
100	5.2	2.4	7.1

Manual Integrations
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#18

2-Butanone

Concen: 1.172 ug/l

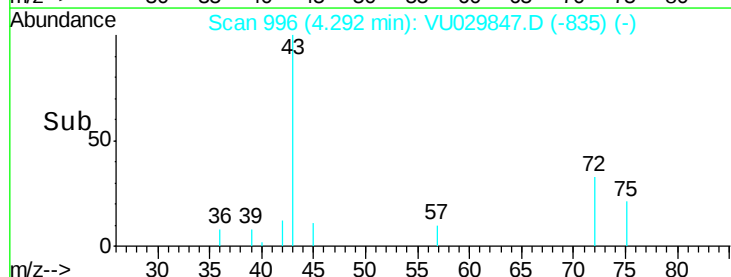
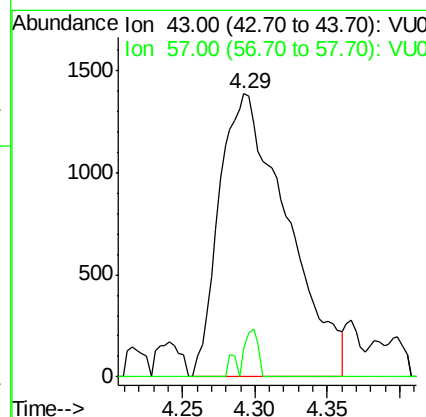
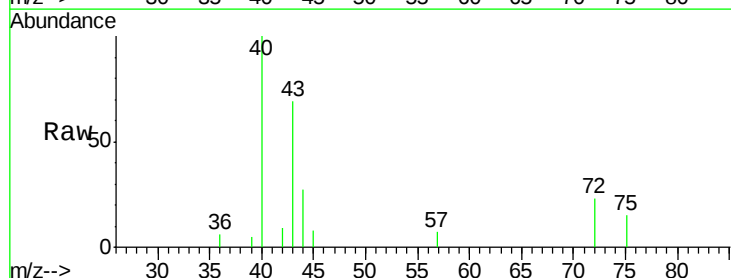
RT: 4.29 min Scan# 996

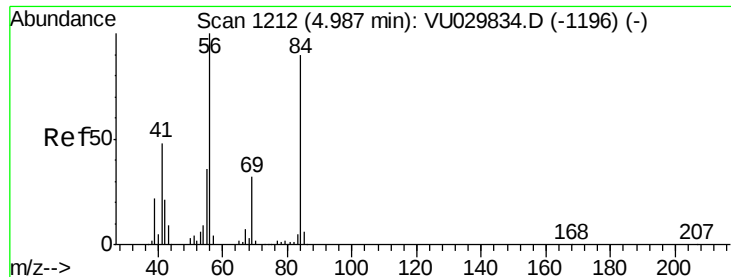
Delta R.T. 0.02 min

Lab File: VU029847.D

Acq: 07 Mar 2019 11:17

Tgt Ion:	43	Resp:	4493
Ion	Ratio	Lower	Upper
43	100		
57	10.1	0.0	18.6





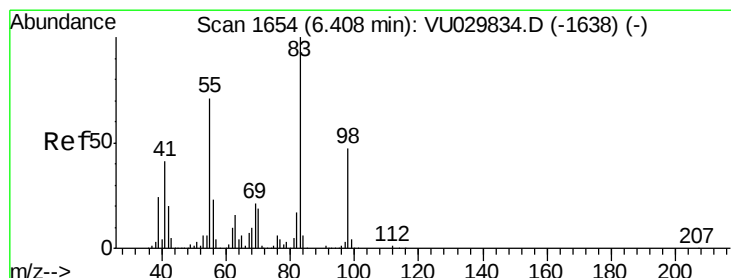
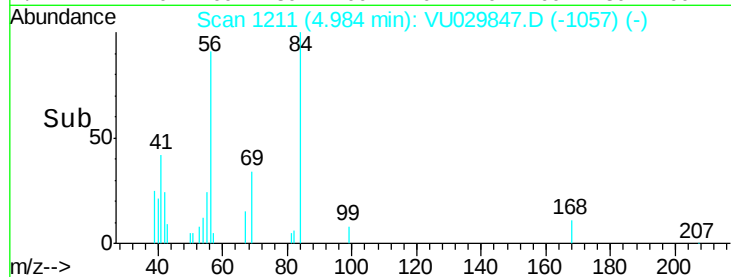
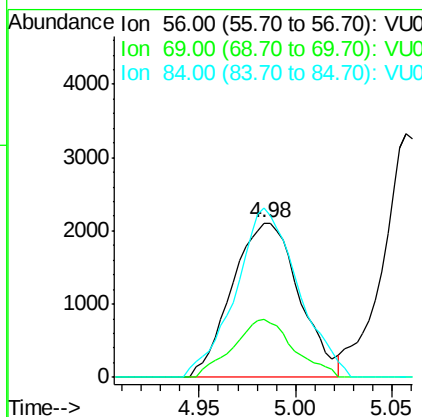
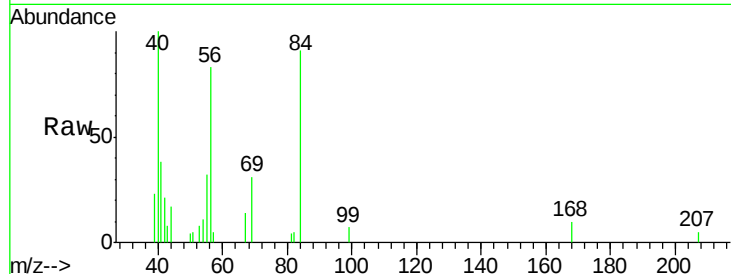
#19
Cyclohexane
Concen: 0.225 ug/l m
RT: 4.98 min Scan# 1211
Delta R.T. -0.00 min
Lab File: VU029847.D
Acq: 07 Mar 2019 11:17

Instrument :
MSVOA_U
ClientSampleId :
MDL04

Tot Ion	Ratio	Lower	Upper
56	100		
69	33.7	29.4	44.2
84	101.9	84.6	127.0

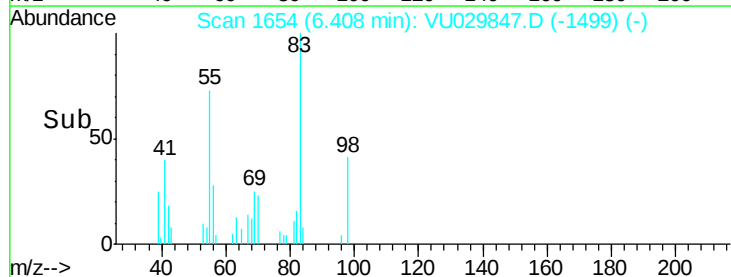
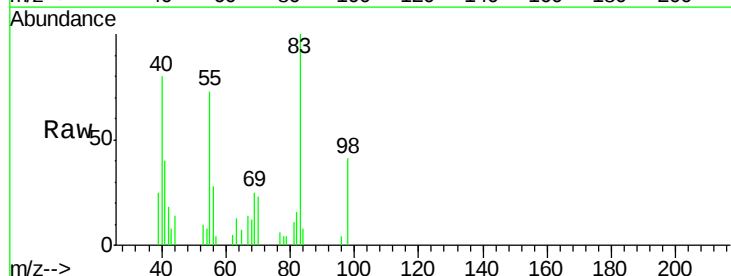
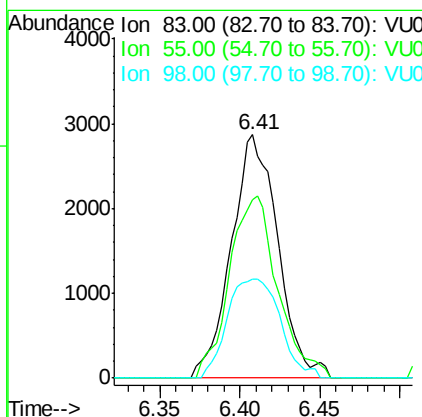
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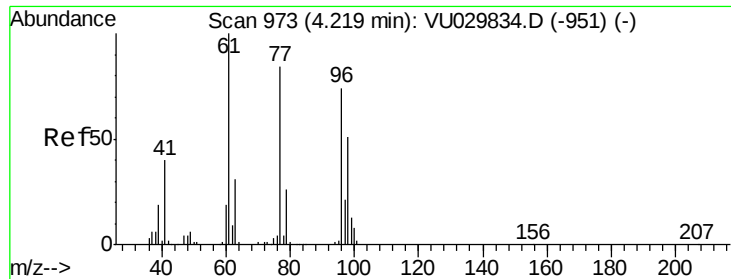
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#20
Methylcyclohexane
Concen: 0.216 ug/l m
RT: 6.41 min Scan# 1654
Delta R.T. -0.00 min
Lab File: VU029847.D
Acq: 07 Mar 2019 11:17

Tgt Ion	Ratio	Lower	Upper
83	100		
55	77.6	55.9	83.9
98	46.1	37.0	55.4





#21

2,2-Dichloropropane

Concen: 0.253 ug/l

RT: 4.22 min Scan# 973

Delta R.T. -0.00 min

Lab File: VU029847.D

Acq: 07 Mar 2019 11:17

Instrument :

MSVOA_U

ClientSampled :

MDL04

Tot Ion: 77 Resp: 6110

Ion Ratio Lower Upper

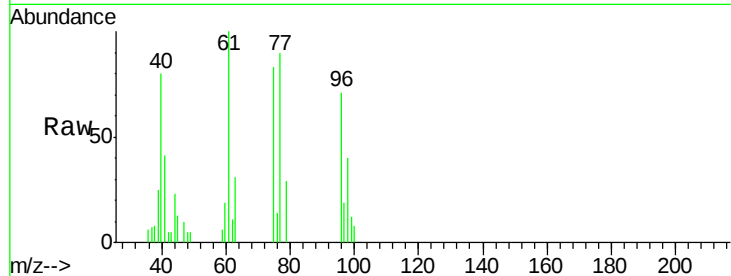
77 100

97 18.6 20.2 30.2#

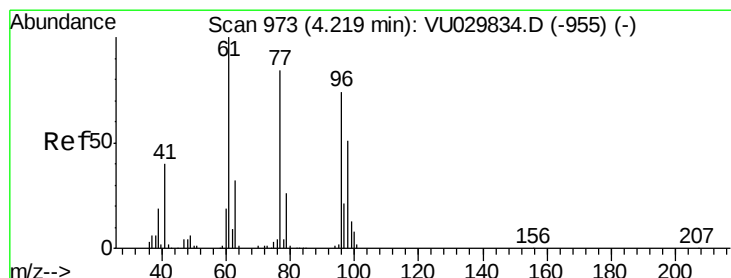
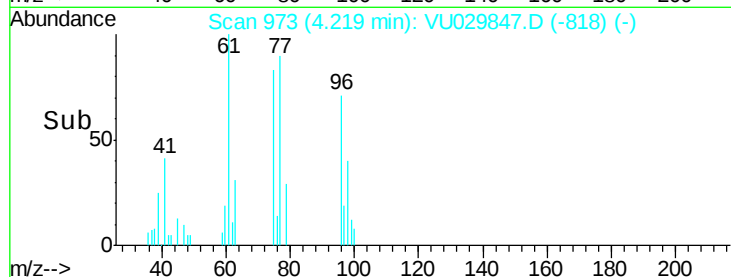
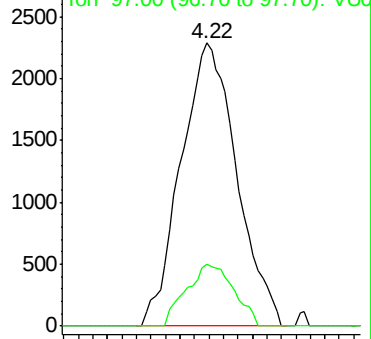
Manual Integrations
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Abundance Ion 77.00 (76.70 to 77.70): VU029834.D (-951) (-)



#22

cis-1,2-Dichloroethene

Concen: 0.233 ug/l

RT: 4.22 min Scan# 974

Delta R.T. 0.00 min

Lab File: VU029847.D

Acq: 07 Mar 2019 11:17

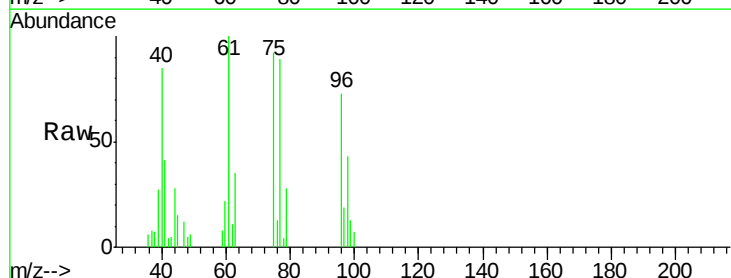
Tgt Ion: 96 Resp: 4359

Ion Ratio Lower Upper

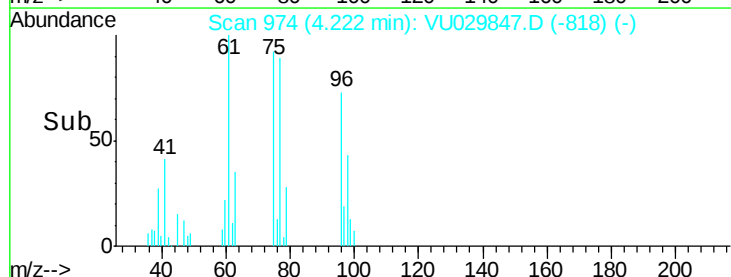
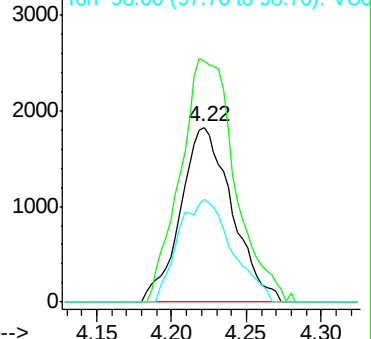
96 100

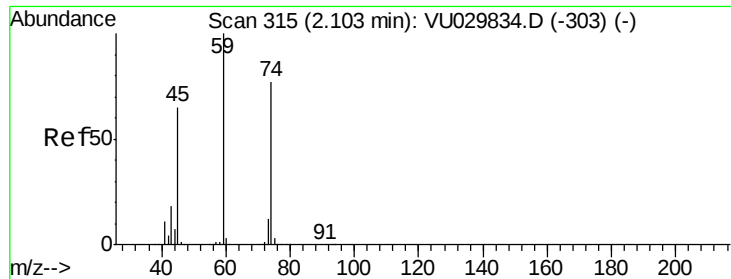
61 149.3 0.0 339.0

98 61.5 33.1 99.5



Abundance Ion 96.00 (95.70 to 96.70): VU029834.D (-955) (-)





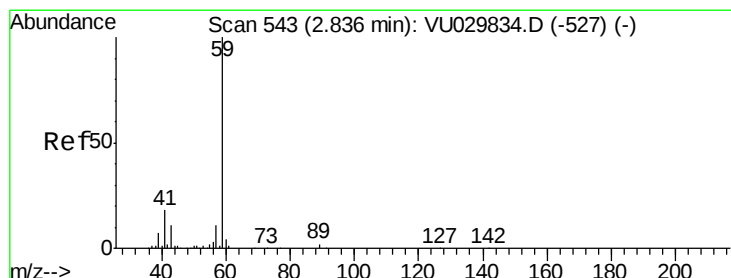
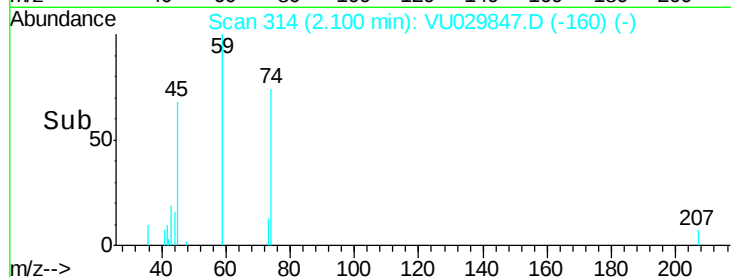
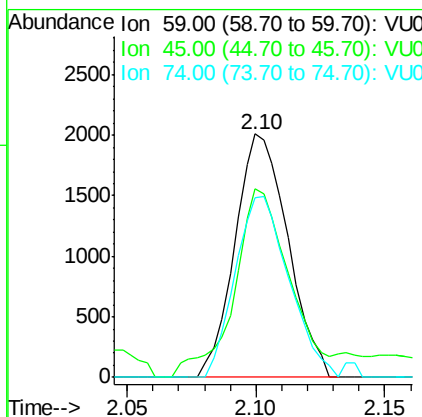
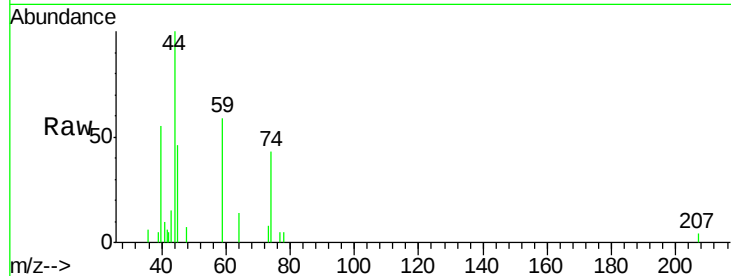
#23
Diethyl Ether
Concen: 0.246 ug/l
RT: 2.10 min Scan# 314
Delta R.T. -0.00 min
Lab File: VU029847.D
Acq: 07 Mar 2019 11:17

Instrument :
MSVOA_U
ClientSampled :
MDL04

Tot Ion	Ratio	Lower	Upper
59	100		
45	80.5	52.7	79.1#
74	75.6	61.8	92.6

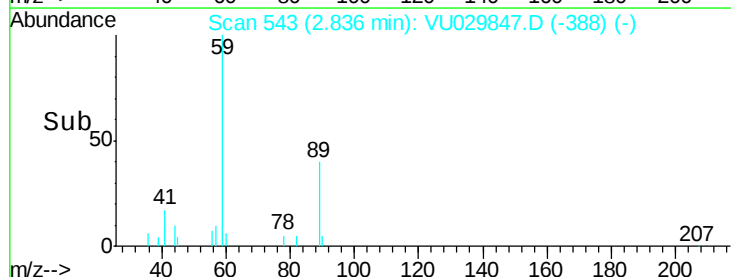
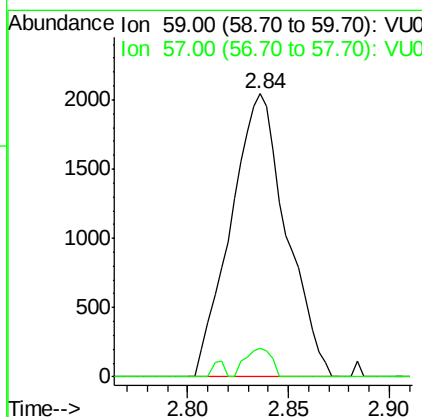
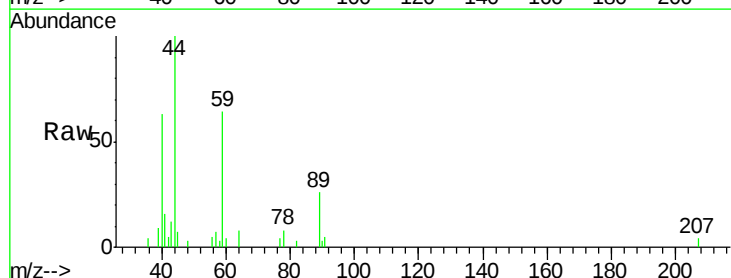
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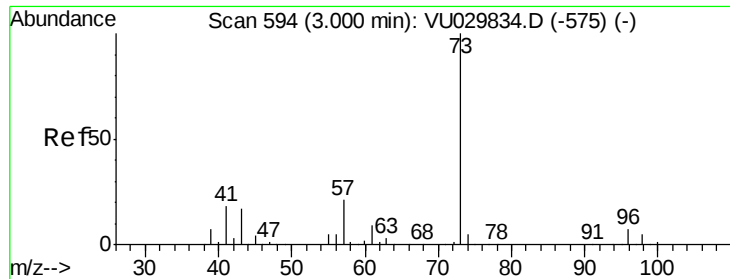
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#24
tert-Butyl Alcohol
Concen: 3.250 ug/l
RT: 2.84 min Scan# 543
Delta R.T. -0.00 min
Lab File: VU029847.D
Acq: 07 Mar 2019 11:17

Tgt Ion	Ratio	Lower	Upper
59	100		
57	4.8	8.5	12.7#





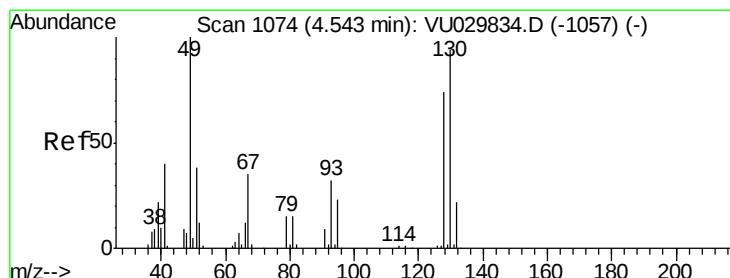
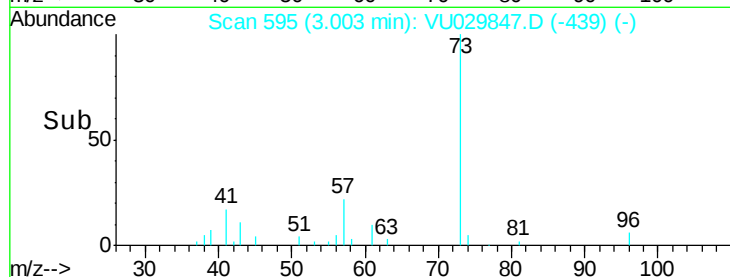
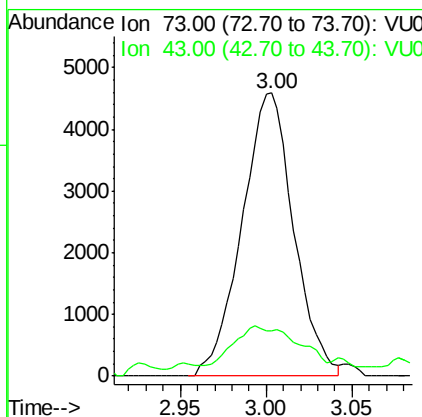
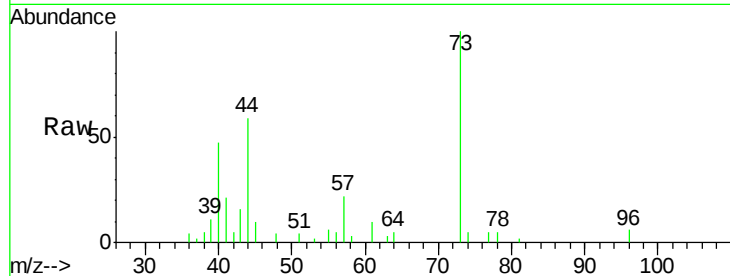
#25
Methvl tert-Butvl Ether
Concen: 0.243 ug/l
RT: 3.00 min Scan# 595
Delta R.T. 0.00 min
Lab File: VU029847.D
Acq: 07 Mar 2019 11:17

Instrument :
MSVOA_U
ClientSampleId :
MDL04

Tot Ion: 73 Resp: 9570
Ion Ratio Lower Upper
73 100
43 18.3 13.1 19.7

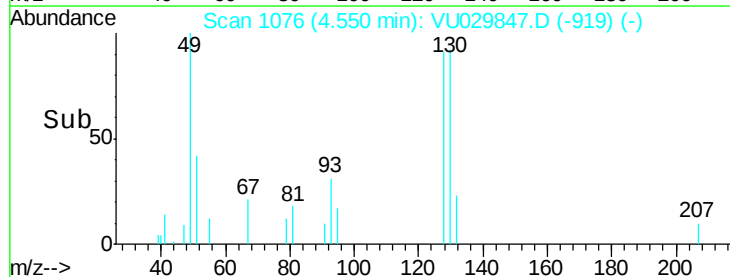
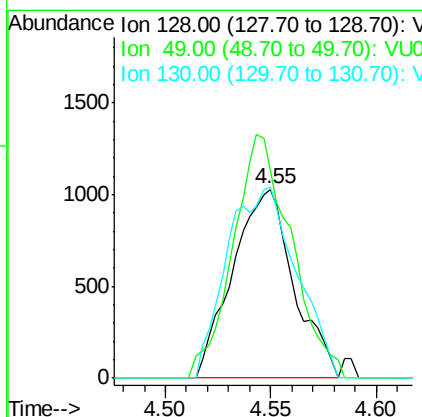
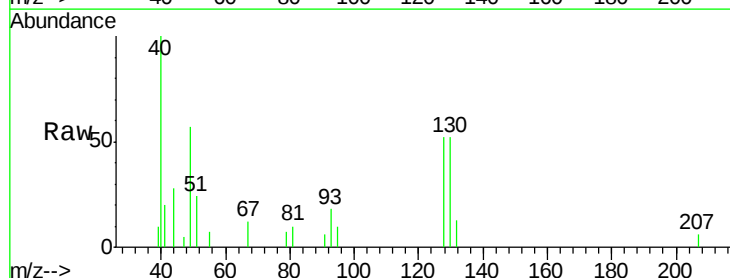
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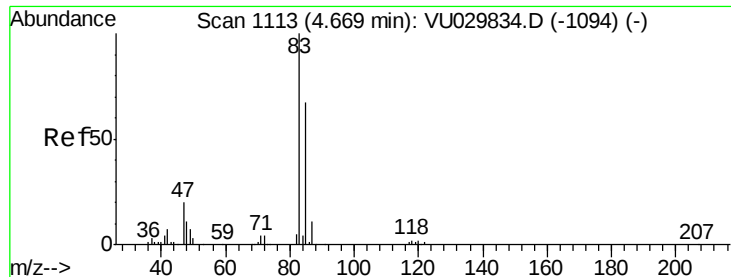
MMDadoda
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#26
Bromochloromethane
Concen: 0.249 ug/l
RT: 4.55 min Scan# 1076
Delta R.T. 0.01 min
Lab File: VU029847.D
Acq: 07 Mar 2019 11:17

Tgt Ion:128 Resp: 2071
Ion Ratio Lower Upper
128 100
49 122.7 0.0 270.6
130 115.4 104.2 156.4





#27

Chloroform

Concen: 0.238 ug/l

RT: 4.67 min Scan# 1114

Delta R.T. 0.00 min

Lab File: VU029847.D

Acq: 07 Mar 2019 11:17

Instrument :

MSVOA_U

ClientSampleId :

MDL04

Tot Ion: 83 Resp: 7111

Ion Ratio Lower Upper

83 100

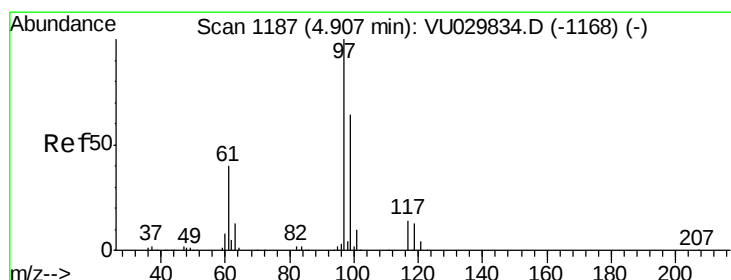
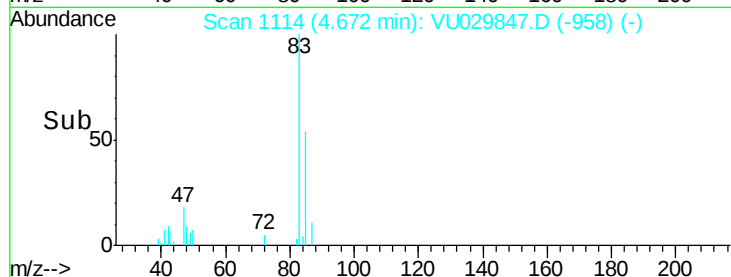
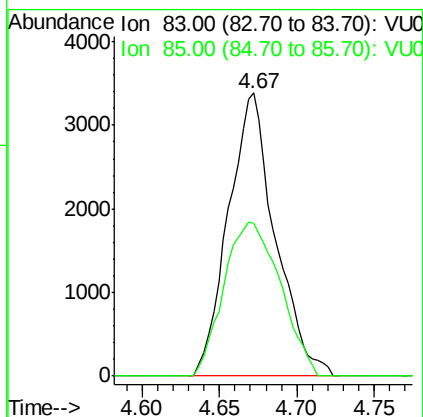
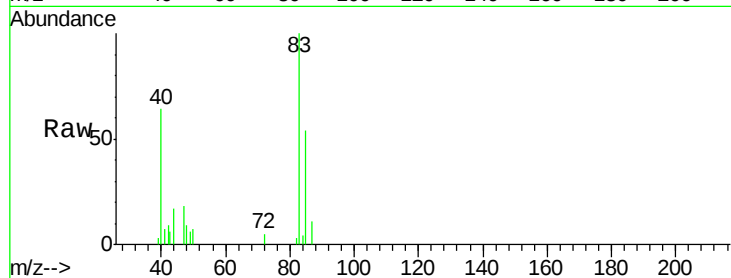
85 53.8 0.0 133.2

Manual Integrations

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#28

1,1,1-Trichloroethane

Concen: 0.225 ug/l m

RT: 4.91 min Scan# 1187

Delta R.T. -0.00 min

Lab File: VU029847.D

Acq: 07 Mar 2019 11:17

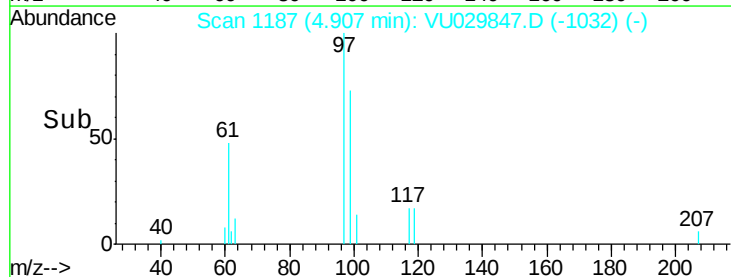
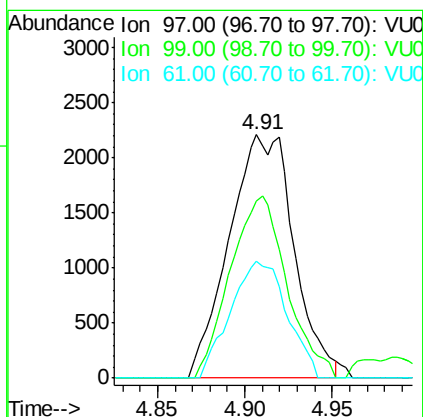
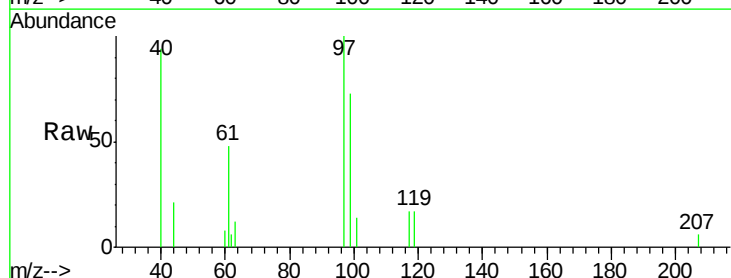
Tgt Ion: 97 Resp: 5690

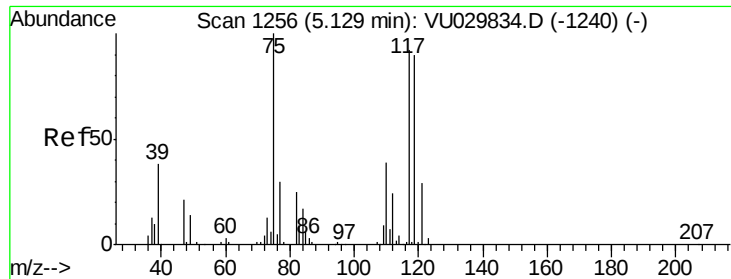
Ion Ratio Lower Upper

97 100

99 65.5 31.9 95.9

61 42.0 20.4 61.3





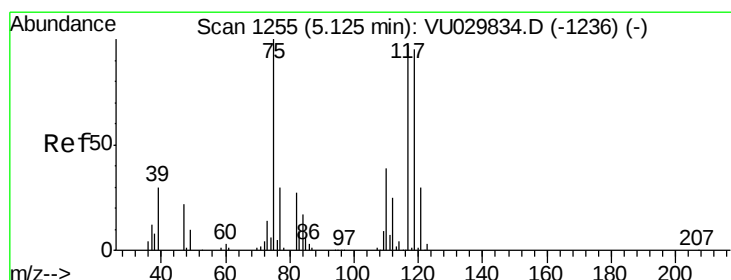
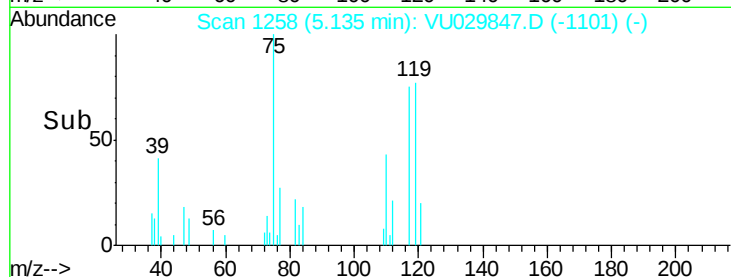
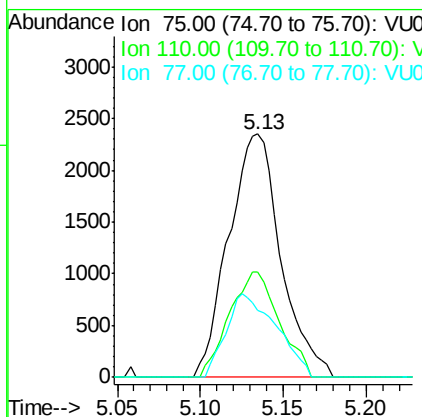
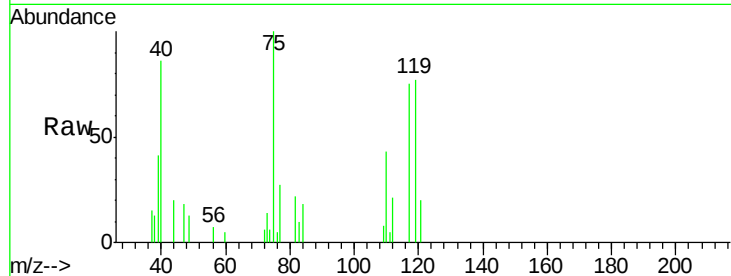
#29
 1,1-Dichloropropene
 Concen: 0.228 ug/l
 RT: 5.13 min Scan# 1258
 Delta R.T. 0.01 min
 Lab File: VU029847.D
 Acq: 07 Mar 2019 11:17

Instrument :
 MSVOA_U
 ClientSampleId :
 MDL04

Tot Ion	Ratio	Lower	Upper
75	100		
110	41.1	19.1	57.5
77	33.0	23.9	35.9

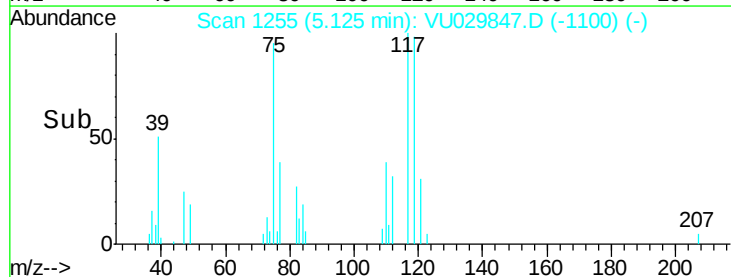
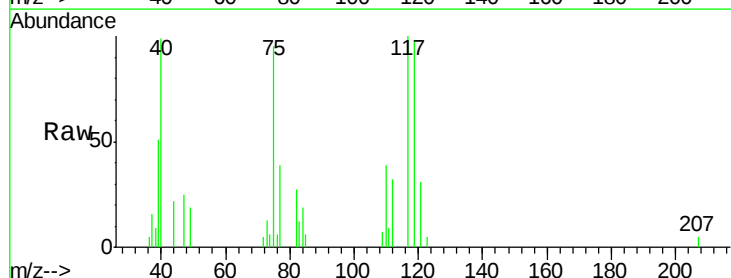
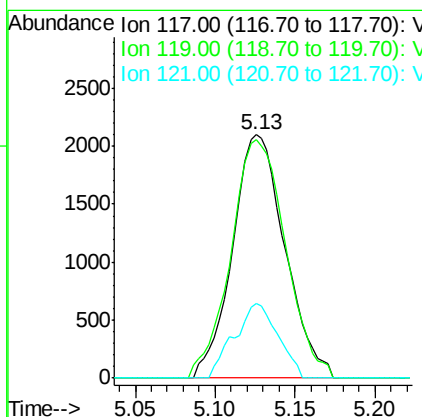
Manual Integrations
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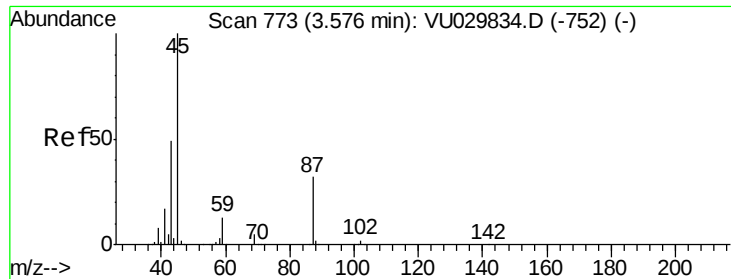
MMDadoda
 3/11/2019 6:48:21 PM



#30
 Carbon Tetrachloride
 Concen: 0.213 ug/l
 RT: 5.13 min Scan# 1255
 Delta R.T. -0.00 min
 Lab File: VU029847.D
 Acq: 07 Mar 2019 11:17

Tgt Ion	Ratio	Lower	Upper
117	100		
119	97.9	78.4	117.6
121	30.9	25.0	37.4





#31

Isopropyl Ether

Concen: 0.240 ug/l

RT: 3.57 min Scan# 772

Delta R.T. -0.00 min

Lab File: VU029847.D

Acq: 07 Mar 2019 11:17

Instrument :

MSVOA_U

ClientSampleId :

MDL04

Tot Ion: 45 Resp: 9758

Ion Ratio Lower Upper

45 100

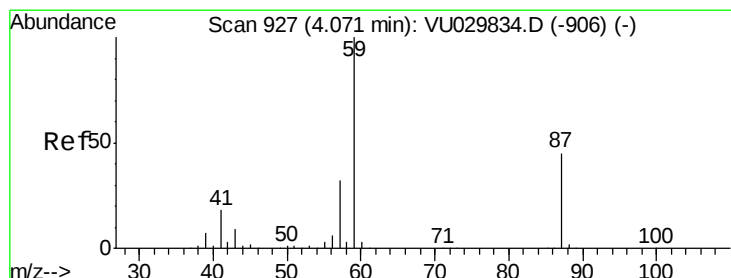
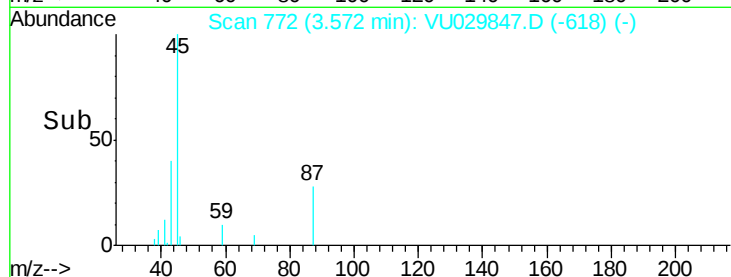
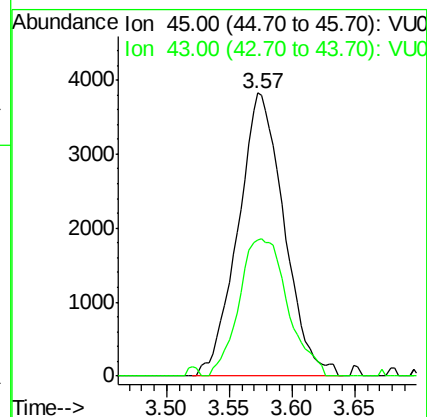
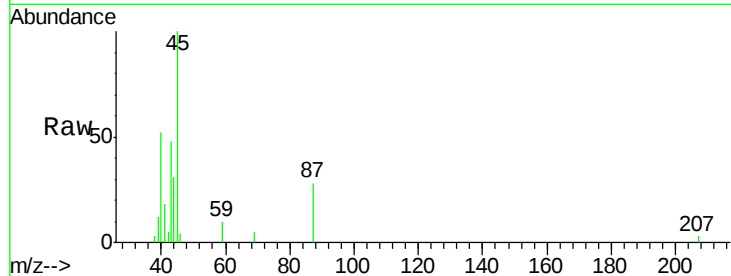
43 50.9 24.3 72.9

Manual Integrations

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#32

Ethyl-t-butyl ether

Concen: 0.240 ug/l

RT: 4.07 min Scan# 926

Delta R.T. -0.00 min

Lab File: VU029847.D

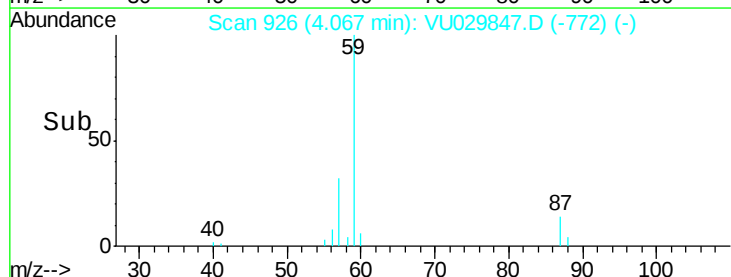
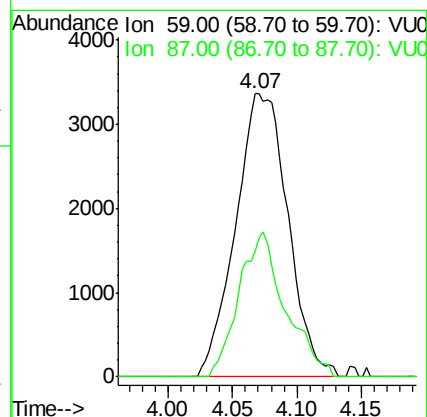
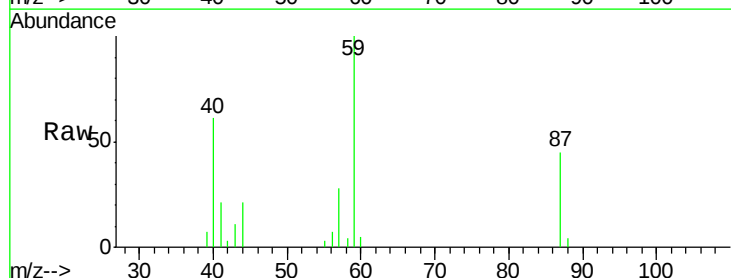
Acq: 07 Mar 2019 11:17

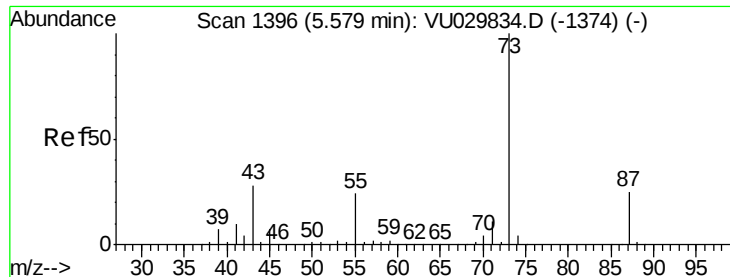
Tgt Ion: 59 Resp: 9504

Ion Ratio Lower Upper

59 100

87 45.3 36.2 54.4





#33

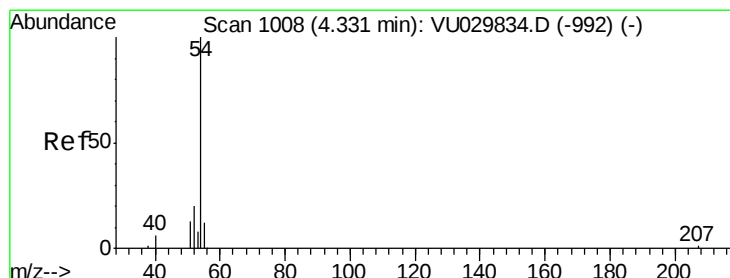
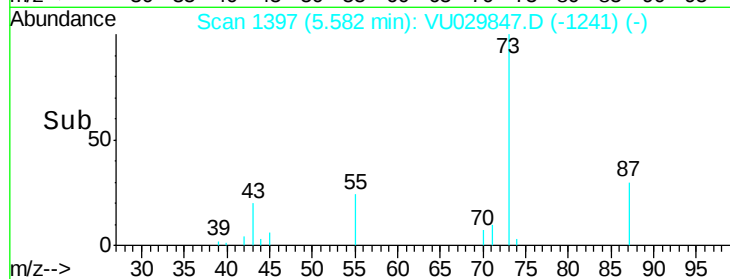
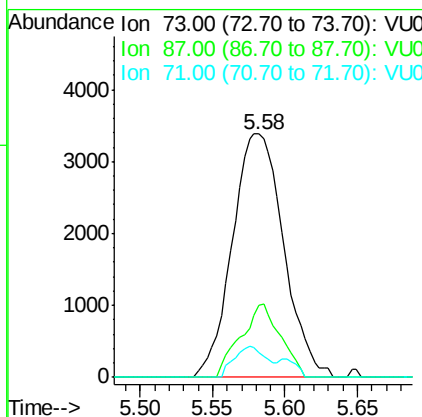
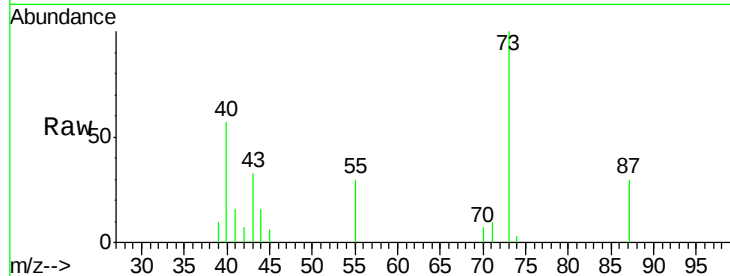
Tert-Butyl methyl ether
 Concen: 0.227 ug/l
 RT: 5.58 min Scan# 1397
 Delta R.T. 0.00 min
 Lab File: VU029847.D
 Acq: 07 Mar 2019 11:17

Instrument :
 MSVOA_U
 ClientSampleId :
 MDL04

Tot Ion	Ratio	Lower	Upper
73	100		
87	23.3	19.7	29.5
71	5.0	9.4	14.2

Manual Integrations
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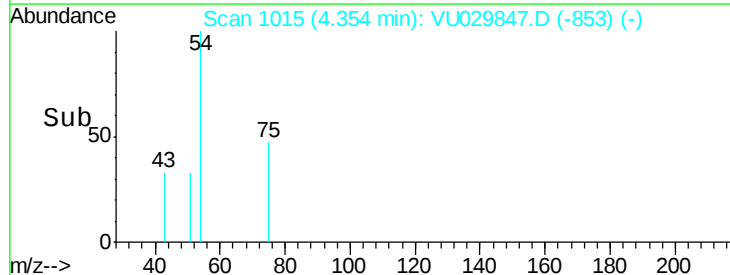
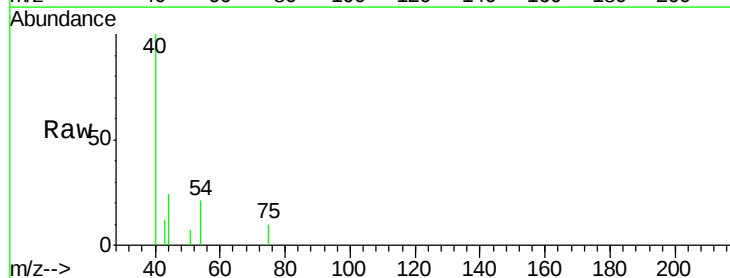
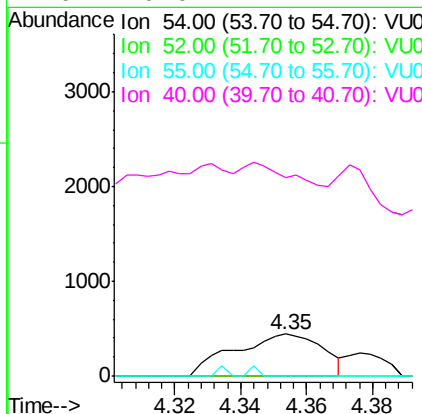
MMDadoda
 3/11/2019 6:48:21 PM

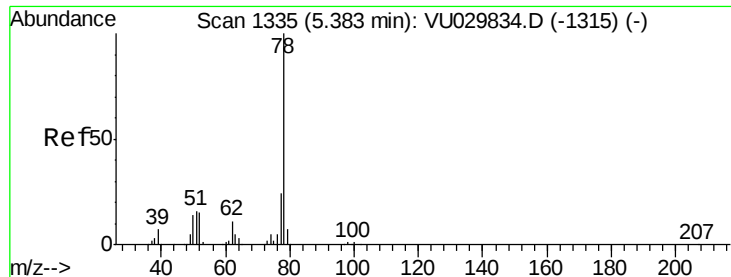


#34

Propionitrile
 Concen: 0.724 ug/l m
 RT: 4.35 min Scan# 1015
 Delta R.T. 0.02 min
 Lab File: VU029847.D
 Acq: 07 Mar 2019 11:17

Tgt 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





#35

Benzene

Concen: 0.243 ug/l

RT: 5.39 min Scan# 1336

Delta R.T. 0.00 min

Lab File: VU029847.D

Acq: 07 Mar 2019 11:17

Instrument :

MSVOA_U

ClientSampleId :

MDL04

Tot Ion: 78 Resp: 16137

Ion Ratio Lower Upper

78 100

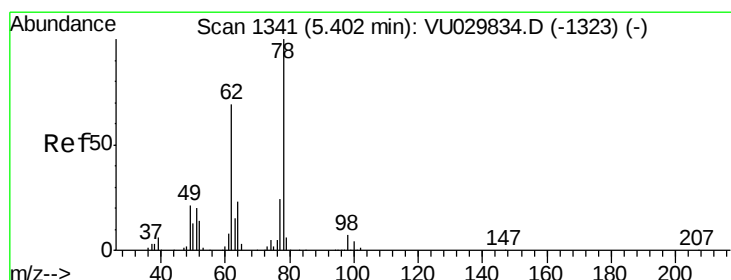
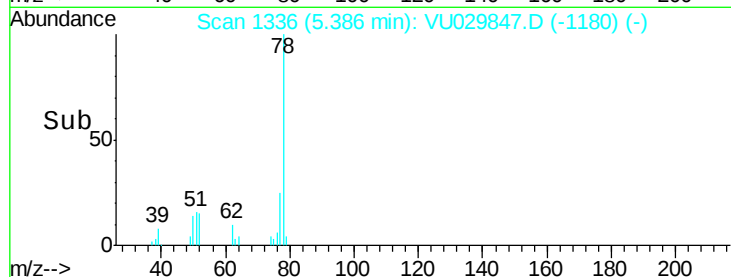
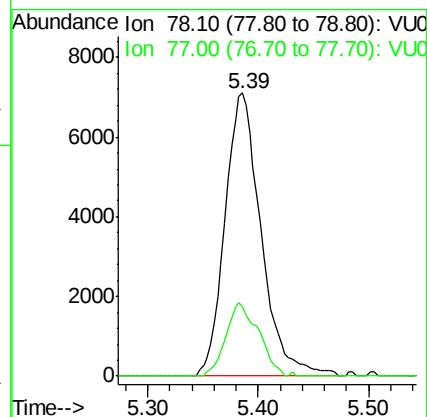
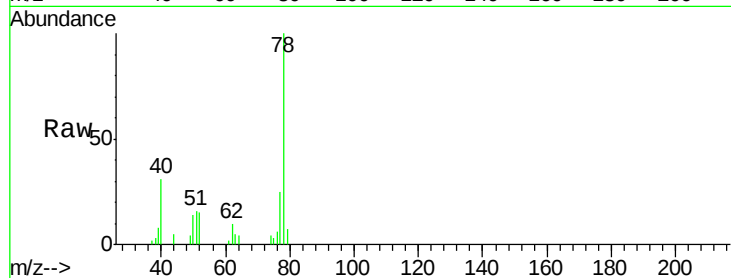
77 24.7 19.2 28.8

Manual Integrations

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#36

1,2-Dichloroethane

Concen: 0.233 ug/l

RT: 5.41 min Scan# 1343

Delta R.T. 0.01 min

Lab File: VU029847.D

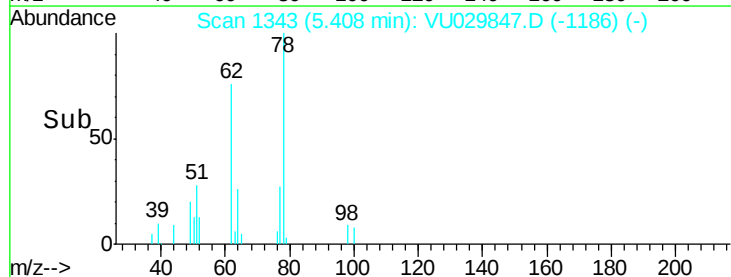
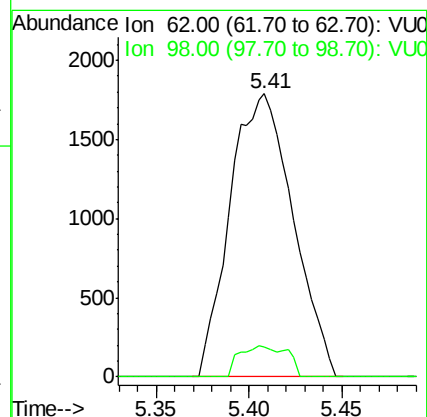
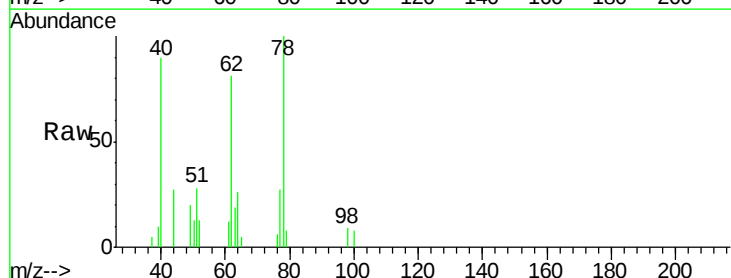
Acq: 07 Mar 2019 11:17

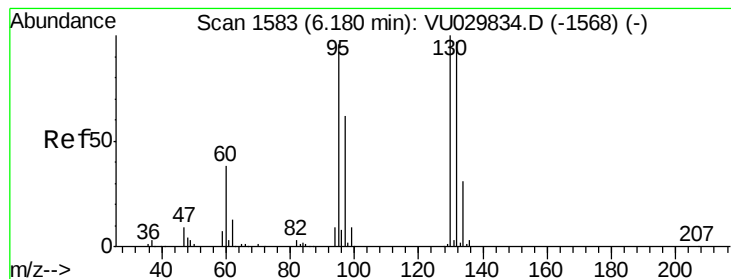
Tgt Ion: 62 Resp: 4229

Ion Ratio Lower Upper

62 100

98 8.3 8.2 12.2





#37

Trichloroethene

Concen: 0.228 ug/l

RT: 6.19 min Scan# 1585

Delta R.T. 0.01 min

Lab File: VU029847.D

Acq: 07 Mar 2019 11:17

Instrument :

MSVOA_U

ClientSampleId :

MDL04

Tot Ion:130 Resp: 4409

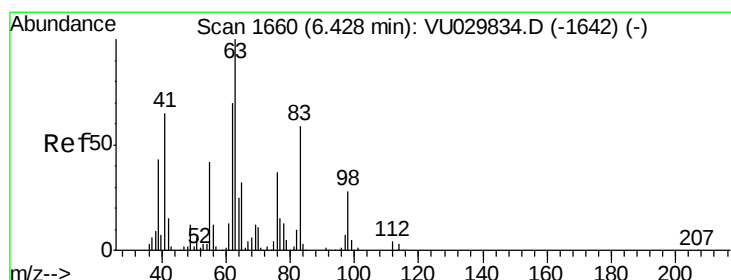
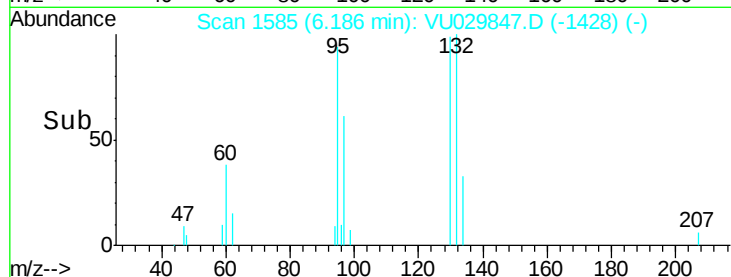
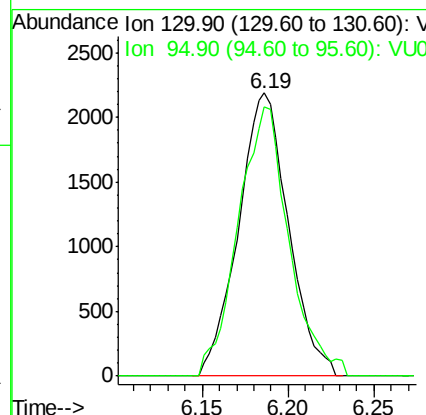
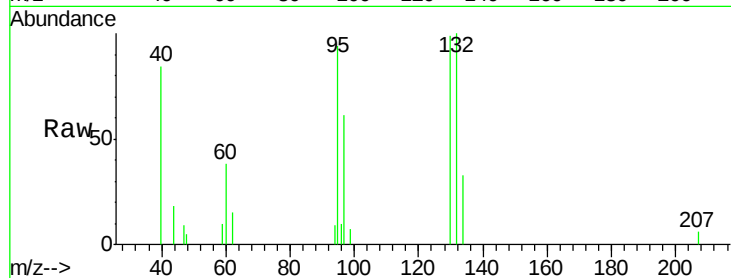
Ion Ratio Lower Upper

130 100

95 95.3 76.6 114.8

Manual Integrations
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#38

1,2-Dichloropropane

Concen: 0.220 ug/l

RT: 6.43 min Scan# 1662

Delta R.T. 0.01 min

Lab File: VU029847.D

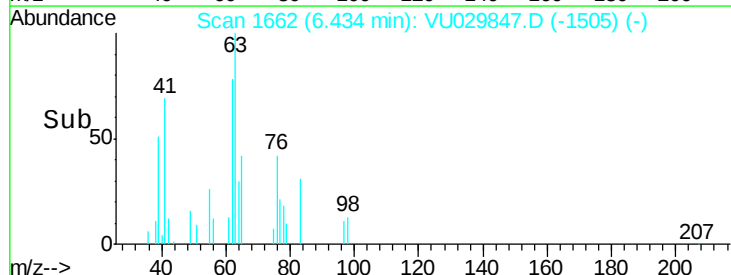
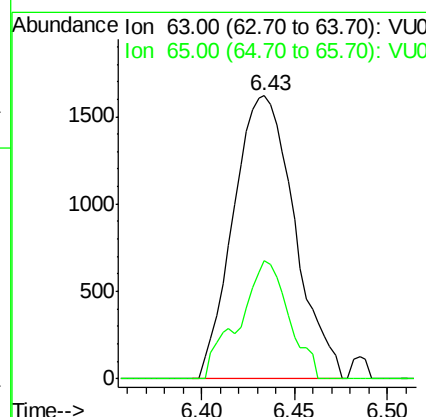
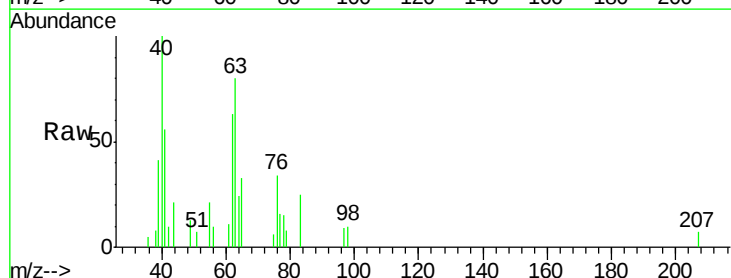
Acq: 07 Mar 2019 11:17

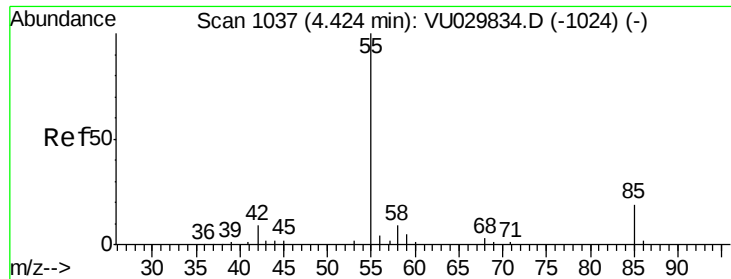
Tgt Ion: 63 Resp: 3697

Ion Ratio Lower Upper

63 100

65 41.8 25.4 38.2#





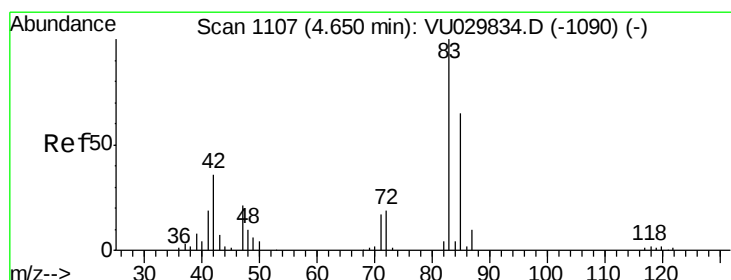
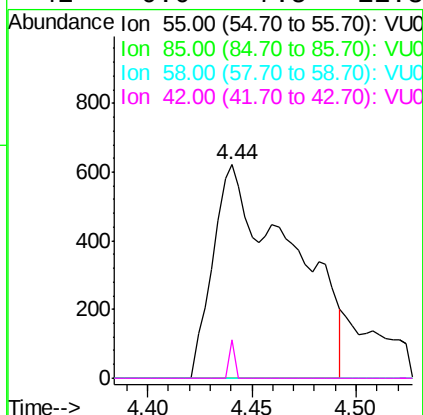
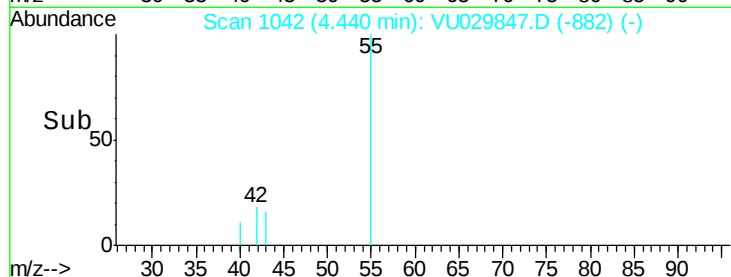
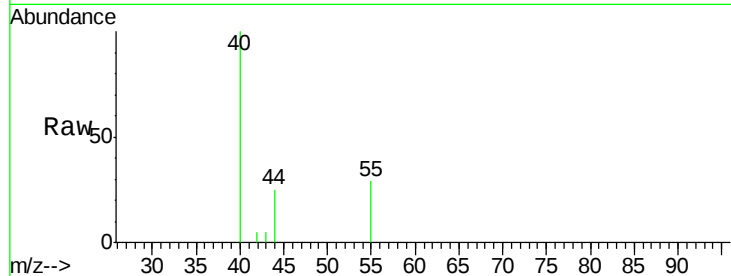
#40
Methyl acrylate
Concen: 0.213 ug/l m
RT: 4.44 min Scan# 1042
Delta R.T. 0.02 min
Lab File: VU029847.D
Acq: 07 Mar 2019 11:17

Instrument :
MSVOA_U
ClientSampleId :
MDL04

Tot Ion:	55	Resp:	1618
Ion	Ratio	Lower	Upper
55	100		
85	0.0	15.2	22.8#
58	0.0	7.6	11.4#
42	0.0	7.5	11.3#

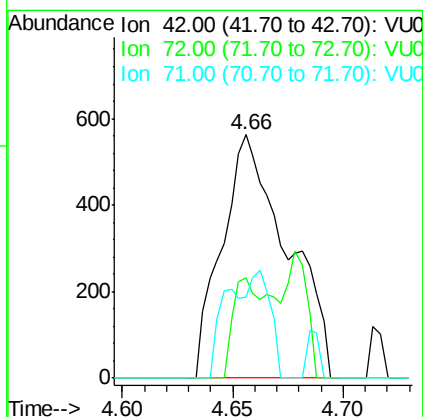
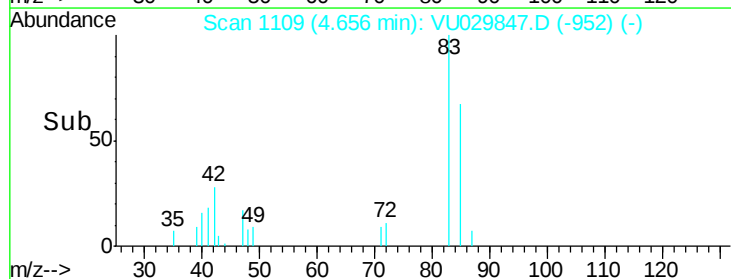
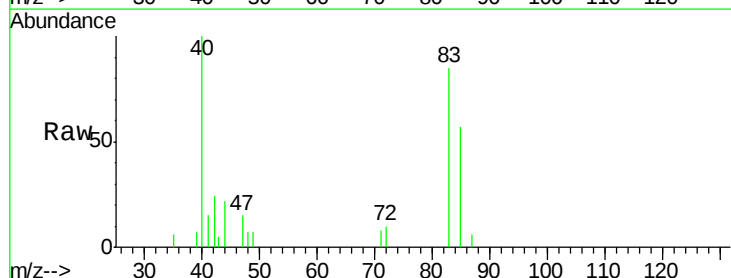
Manual Integrations
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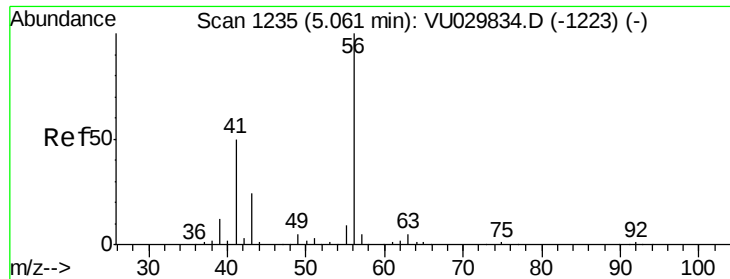
MMDadoda
3/11/2019 6:48:21 PM



#41
Tetrahydrofuran
Concen: 0.459 ug/l
RT: 4.66 min Scan# 1109
Delta R.T. 0.01 min
Lab File: VU029847.D
Acq: 07 Mar 2019 11:17

Tgt Ion:	42	Resp:	1151
Ion	Ratio	Lower	Upper
42	100		
72	22.7	43.6	65.4#
71	13.8	37.5	56.3#





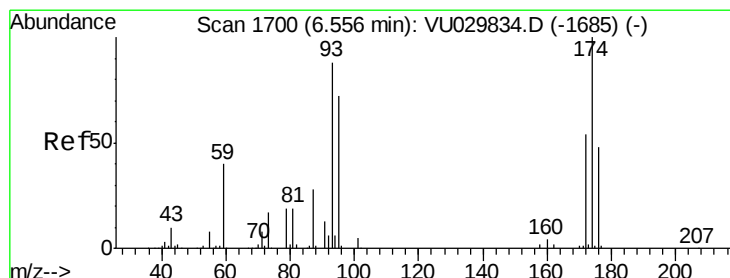
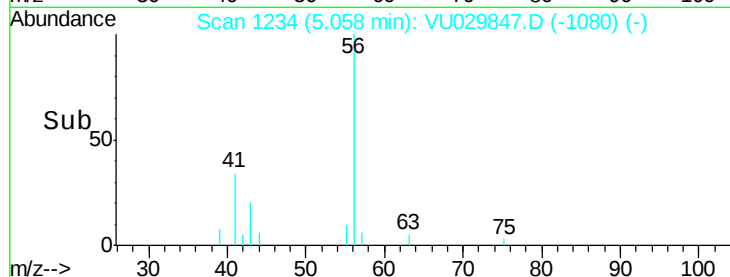
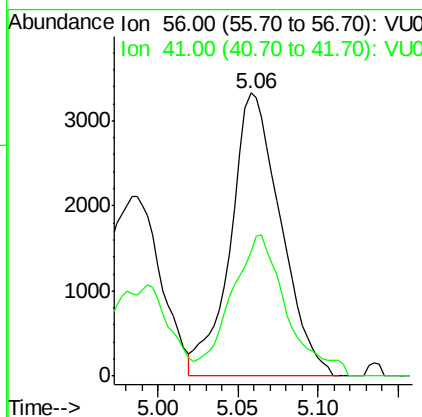
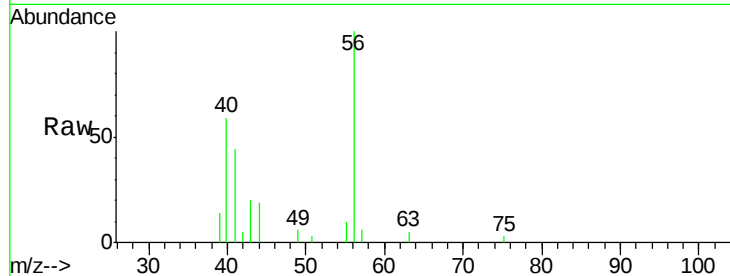
#42
1-Chlorobutane
Concen: 0.248 ug/l
RT: 5.06 min Scan# 1234
Delta R.T. -0.00 min
Lab File: VU029847.D
Acq: 07 Mar 2019 11:17

Instrument :
MSVOA_U
ClientSampled :
MDL04

Tot Ion: 56 Resp: 7138
Ion Ratio Lower Upper
56 100
41 55.3 25.0 75.0

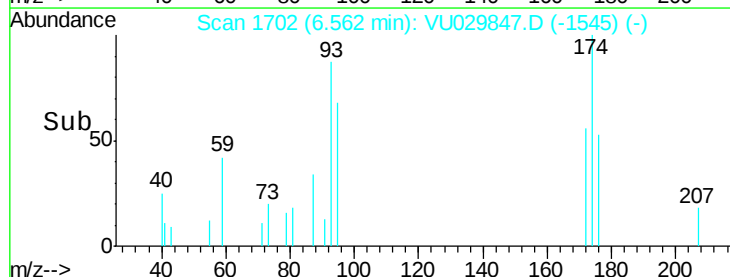
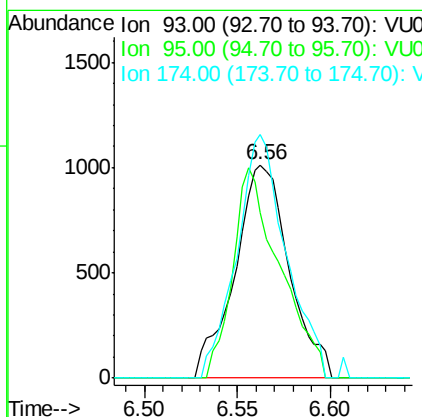
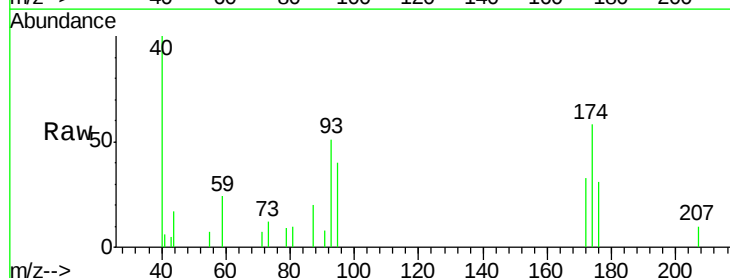
Manual Integrations
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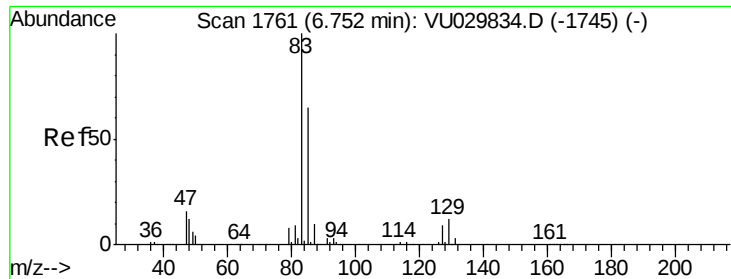
MMDadoda
3/11/2019 6:48:21 PM



#43
Dibromomethane
Concen: 0.237 ug/l
RT: 6.56 min Scan# 1702
Delta R.T. 0.01 min
Lab File: VU029847.D
Acq: 07 Mar 2019 11:17

Tgt Ion: 93 Resp: 2062
Ion Ratio Lower Upper
93 100
95 85.2 67.0 100.6
174 103.6 91.4 137.2





#44

Bromodichloromethane

Concen: 0.221 ug/l

RT: 6.76 min Scan# 1762

Delta R.T. 0.00 min

Lab File: VU029847.D

Acq: 07 Mar 2019 11:17

Instrument :

MSVOA_U

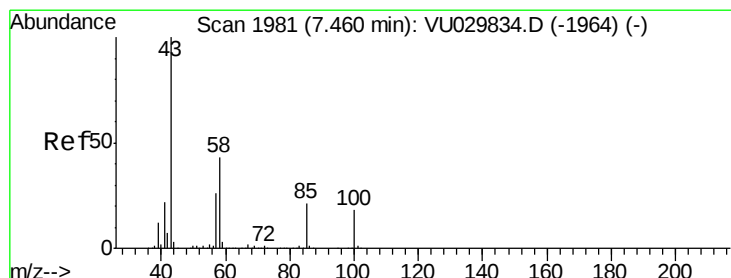
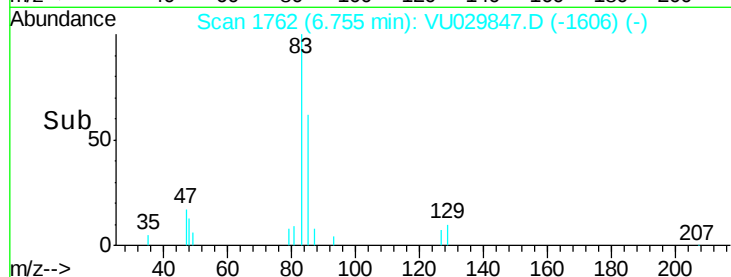
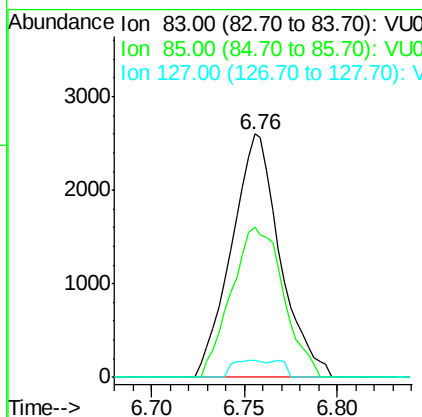
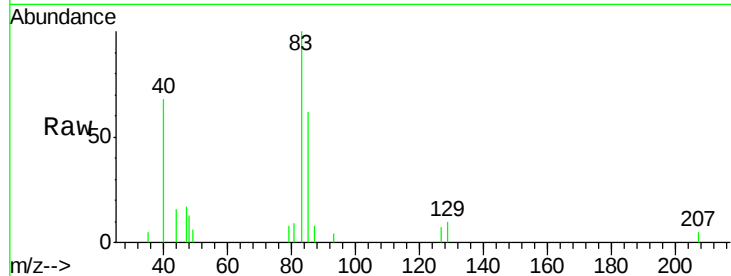
ClientSampleId :

MDL04

Tot Ion	83	Resp	4714
Ion	Ratio	Lower	Upper
83	100		
85	61.7	51.7	77.5
127	7.1	7.4	11.2#

Manual Integrations
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#45

4-Methyl-2-Pentanone

Concen: 1.008 ug/l

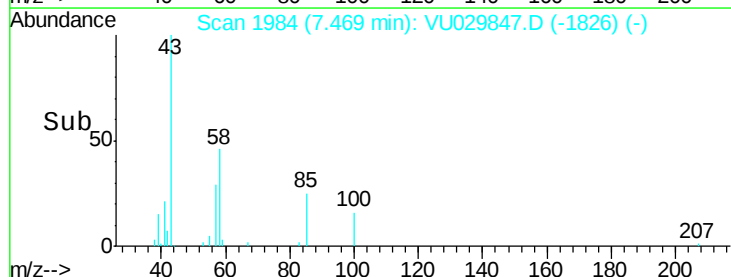
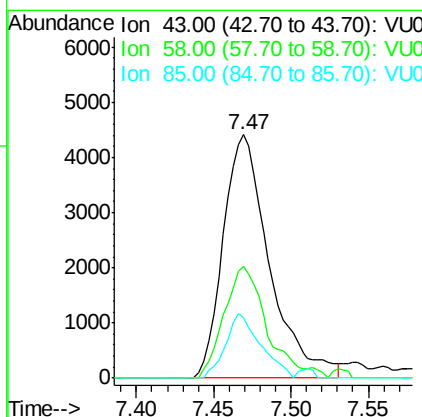
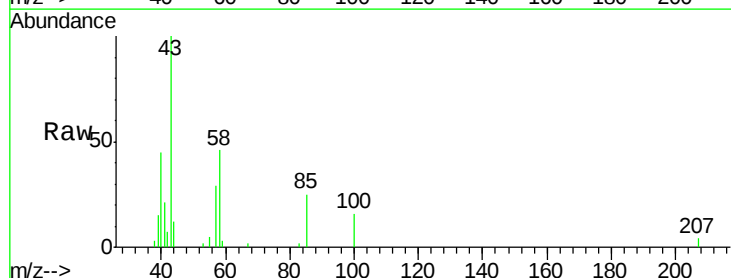
RT: 7.47 min Scan# 1984

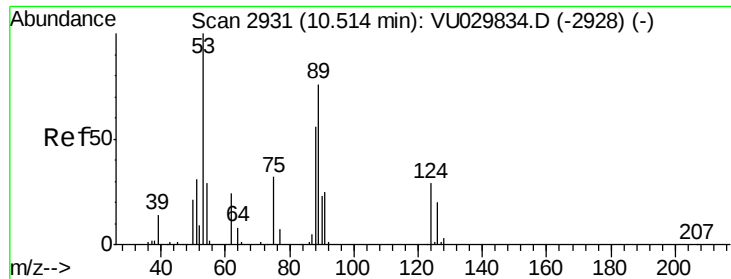
Delta R.T. 0.01 min

Lab File: VU029847.D

Acq: 07 Mar 2019 11:17

Tgt Ion	43	Resp	9146
Ion	Ratio	Lower	Upper
43	100		
58	42.6	21.6	65.0
85	20.0	16.5	24.7





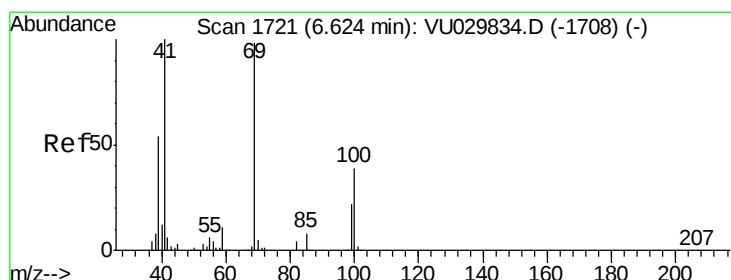
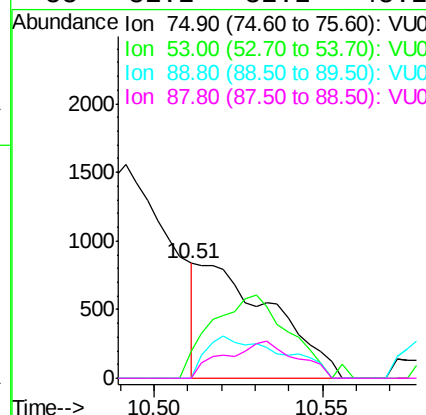
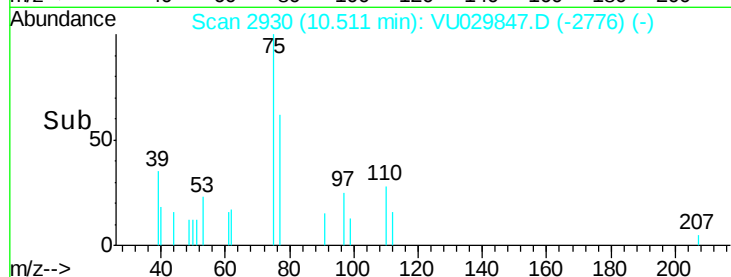
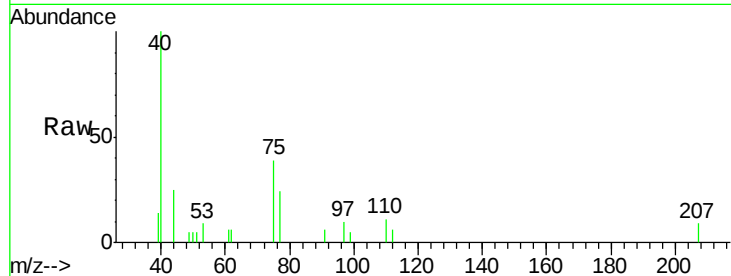
#46
t-1,4-Dichloro-2-butene
Concen: 0.335 ug/l m
RT: 10.51 min Scan# 2930
Delta R.T. -0.00 min
Lab File: VU029847.D
Acq: 07 Mar 2019 11:17

Instrument :
MSVOA_U
ClientSampleId :
MDL04

Tot Ion	Ratio	Lower	Upper
75	100		
53	76.5	59.2	88.8
89	37.8	44.9	67.3#
88	31.2	32.2	48.2#

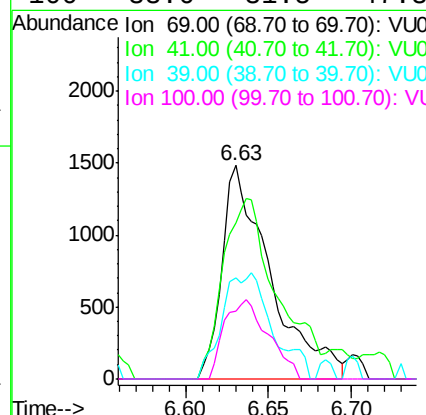
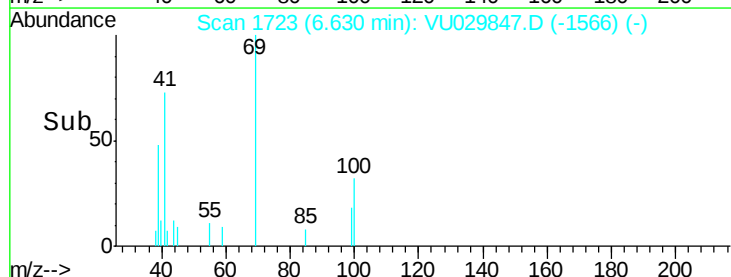
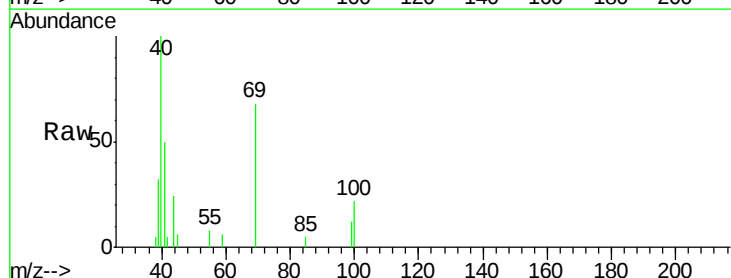
Manual Integrations
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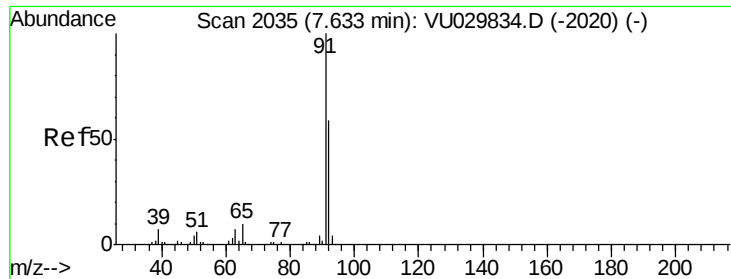
MMDadoda
3/11/2019 6:48:21 PM



#47
Methyl methacrylate
Concen: 0.402 ug/l
RT: 6.63 min Scan# 1723
Delta R.T. 0.01 min
Lab File: VU029847.D
Acq: 07 Mar 2019 11:17

Tgt Ion	Ratio	Lower	Upper
69	100		
41	95.5	0.0	201.0
39	51.3	43.3	64.9
100	33.6	31.5	47.3





#49

Toluene

Concen: 0.208 ug/l

RT: 7.64 min Scan# 2036

Delta R.T. 0.00 min

Lab File: VU029847.D

Acq: 07 Mar 2019 11:17

Instrument :

MSVOA_U

ClientSampleId :

MDL04

Tot Ion: 92 Resp: 8482

Ion Ratio Lower Upper

92 100

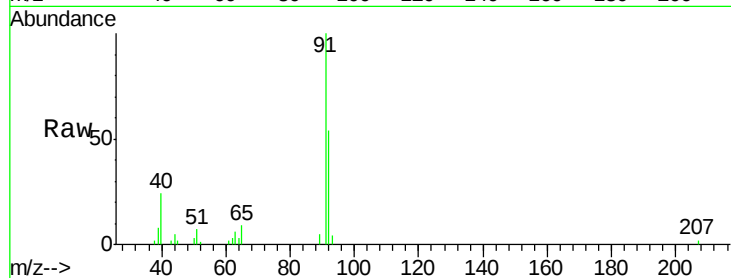
91 174.6 137.8 206.8

Manual Integrations

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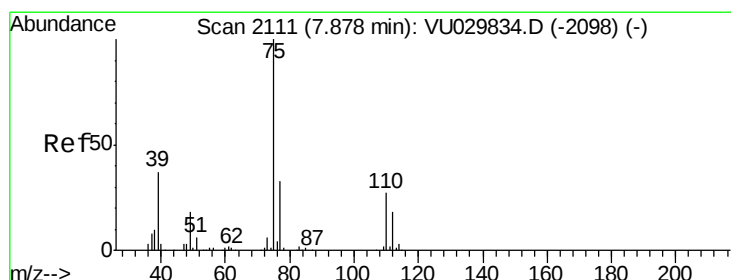
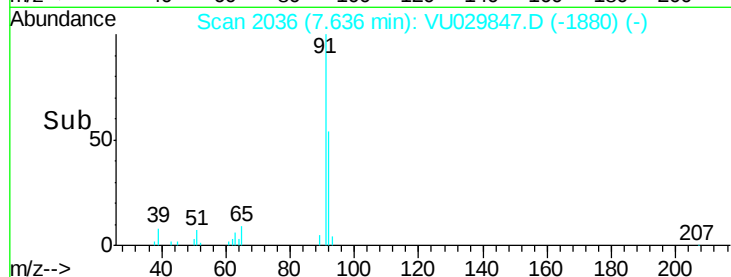
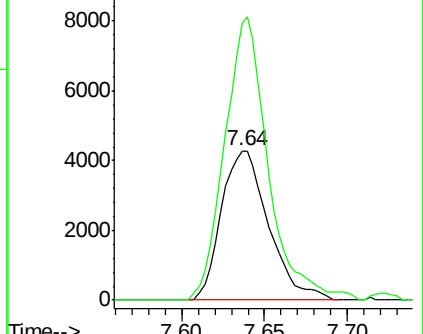
MMDadoda

3/11/2019 6:48:21 PM



Abundance Ion 92.00 (91.70 to 92.70): VU0

Ion 91.00 (90.70 to 91.70): VU0



#50

t-1,3-Dichloropropene

Concen: 0.203 ug/l

RT: 7.88 min Scan# 2113

Delta R.T. 0.01 min

Lab File: VU029847.D

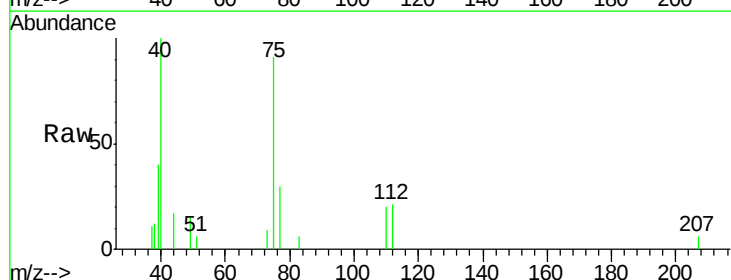
Acq: 07 Mar 2019 11:17

Tgt Ion: 75 Resp: 3812

Ion Ratio Lower Upper

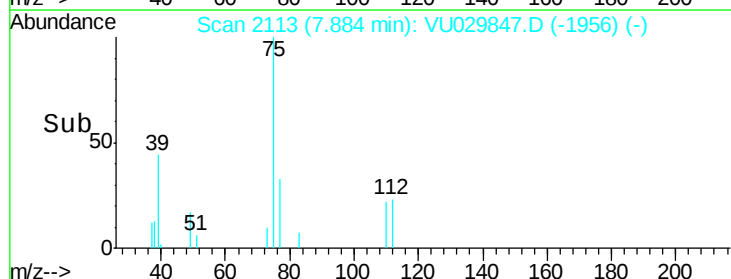
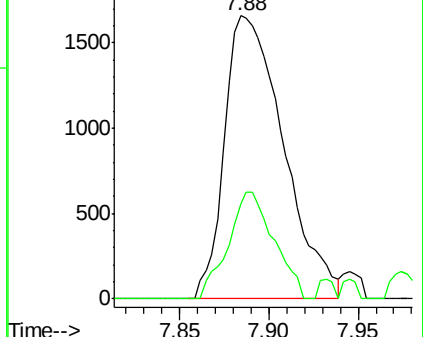
75 100

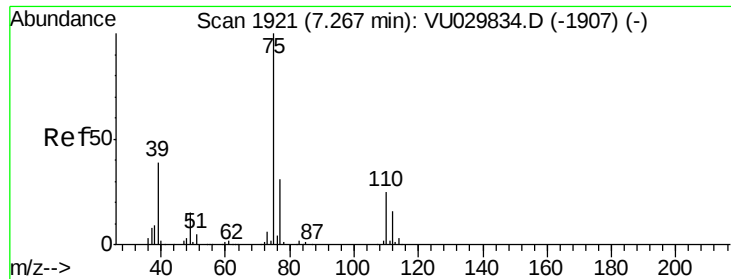
77 33.4 26.4 39.6



Abundance Ion 75.00 (74.70 to 75.70): VU0

Ion 77.00 (76.70 to 77.70): VU0





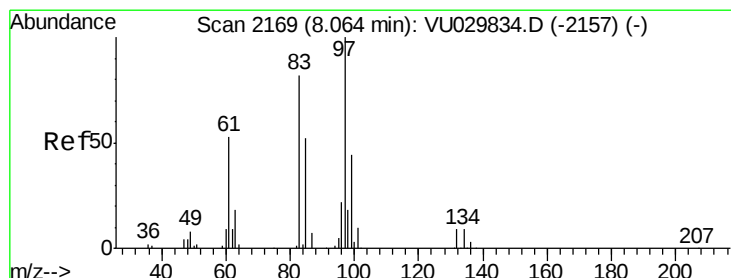
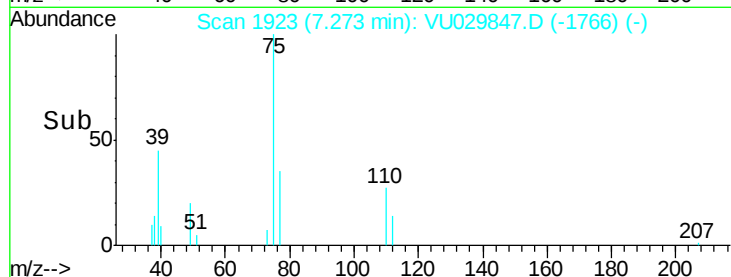
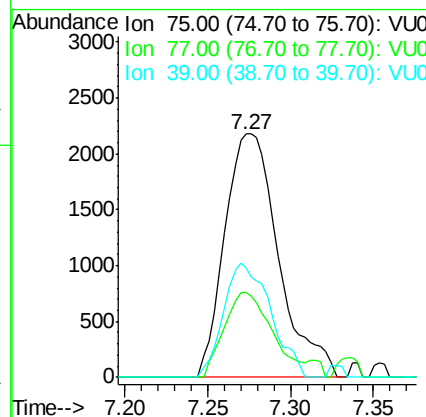
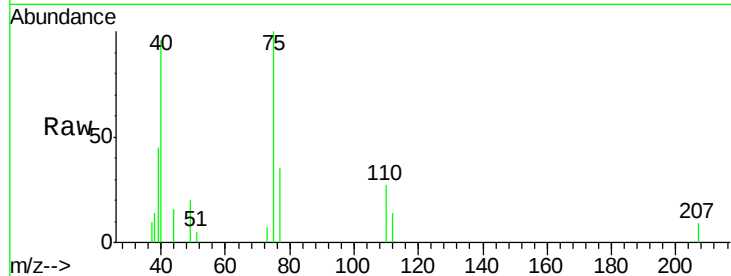
#51
 cis-1,3-Dichloropropene
 Concen: 0.213 ug/l
 RT: 7.27 min Scan# 1923
 Delta R.T. 0.01 min
 Lab File: VU029847.D
 Acq: 07 Mar 2019 11:17

Instrument :
 MSVOA_U
 ClientSampleId :
 MDL04

Tot Ion:	75	Resp:	4929
Ion	Ratio	Lower	Upper
75	100		
77	34.7	24.9	37.3
39	45.1	30.8	46.2

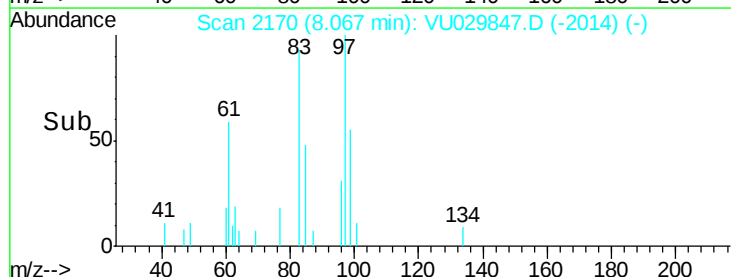
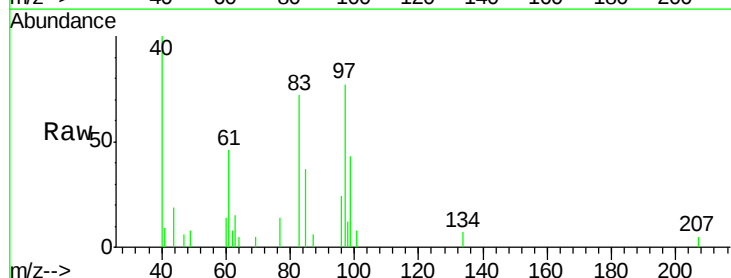
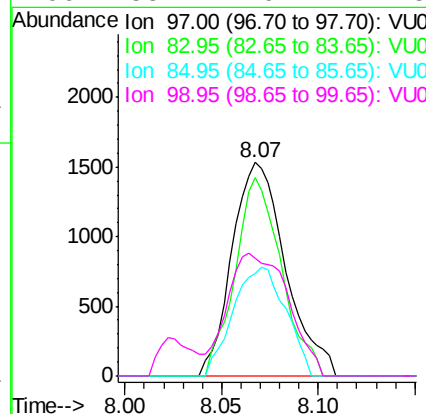
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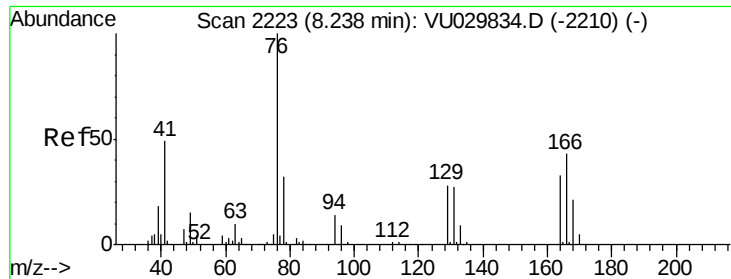
MMDadoda
 3/11/2019 6:48:21 PM



#52
 1,1,2-Trichloroethane
 Concen: 0.229 ug/l
 RT: 8.07 min Scan# 2170
 Delta R.T. 0.00 min
 Lab File: VU029847.D
 Acq: 07 Mar 2019 11:17

Tgt Ion:	97	Resp:	2948
Ion	Ratio	Lower	Upper
97	100		
83	92.6	65.9	98.9
85	48.0	43.0	64.6
99	55.1	49.7	74.5





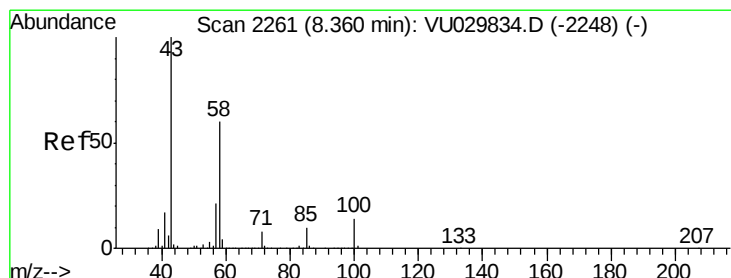
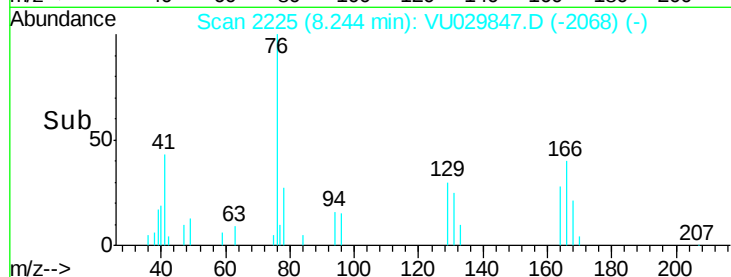
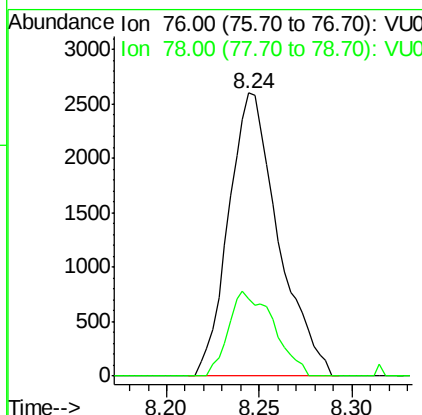
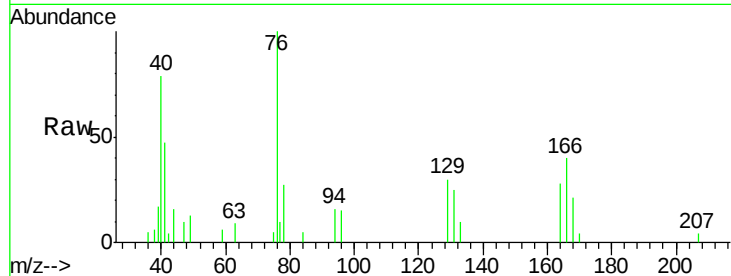
#53
 1,3-Dichloropropane
 Concen: 0.229 ug/l
 RT: 8.24 min Scan# 2225
 Delta R.T. 0.01 min
 Lab File: VU029847.D
 Acq: 07 Mar 2019 11:17

Instrument :
 MSVOA_U
 ClientSampled :
 MDL04

Tot Ion: 76 Resp: 4839
 Ion Ratio Lower Upper
 76 100
 78 27.3 25.7 38.5

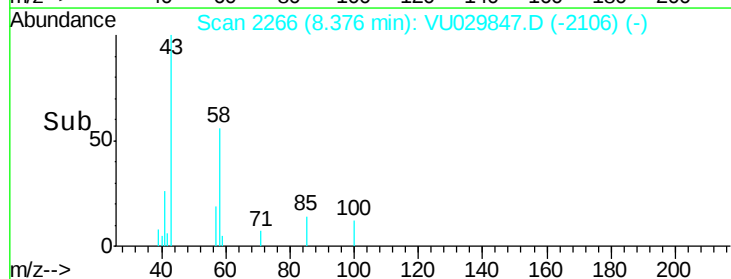
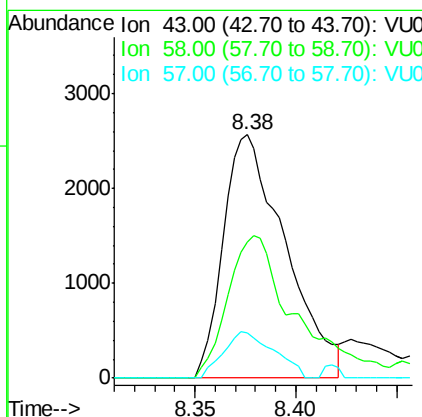
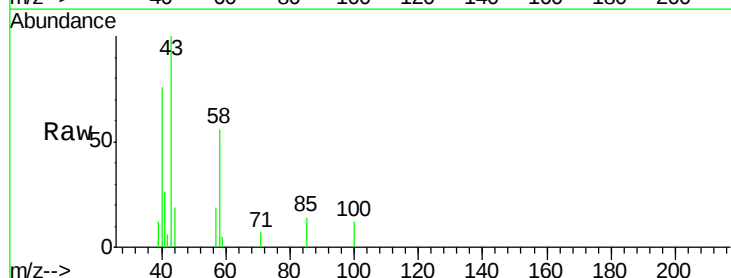
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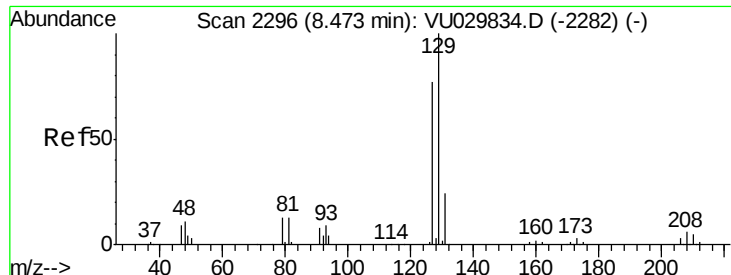
MMDadoda
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#54
 2-Hexanone
 Concen: 0.873 ug/l
 RT: 8.38 min Scan# 2266
 Delta R.T. 0.02 min
 Lab File: VU029847.D
 Acq: 07 Mar 2019 11:17

Tgt Ion: 43 Resp: 5506
 Ion Ratio Lower Upper
 43 100
 58 64.0 39.6 79.6
 57 15.6 0.5 40.5





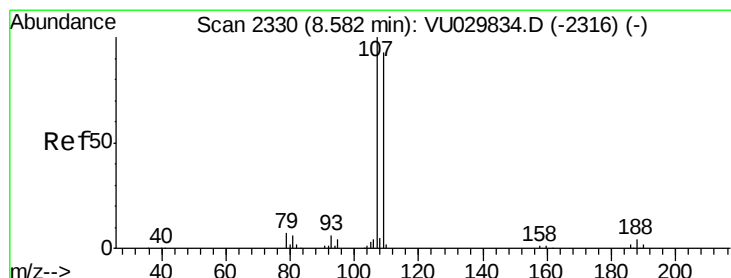
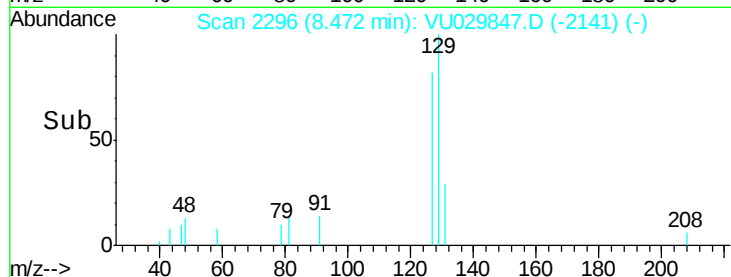
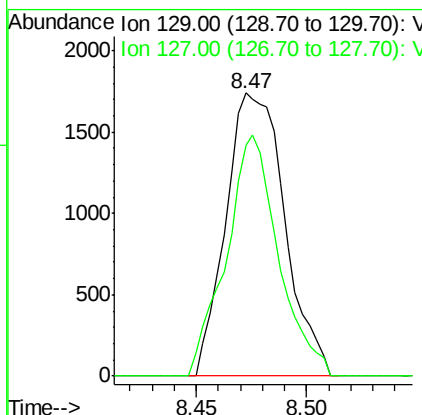
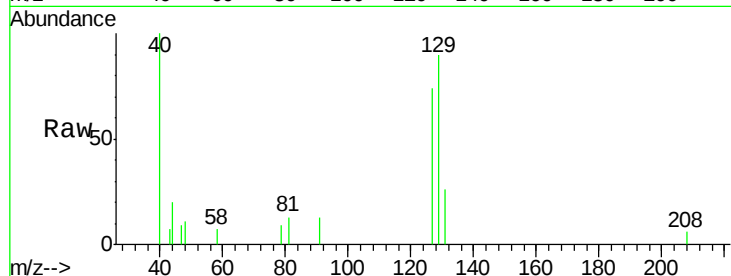
#55
 Dibromochloromethane
 Concen: 0.211 ug/l
 RT: 8.47 min Scan# 2296
 Delta R.T. -0.00 min
 Lab File: VU029847.D
 Acq: 07 Mar 2019 11:17

Instrument :
 MSVOA_U
 ClientSampleId :
 MDL04

Tot Ion	Ratio	Lower	Upper
129	100		
127	75.6	61.6	92.4

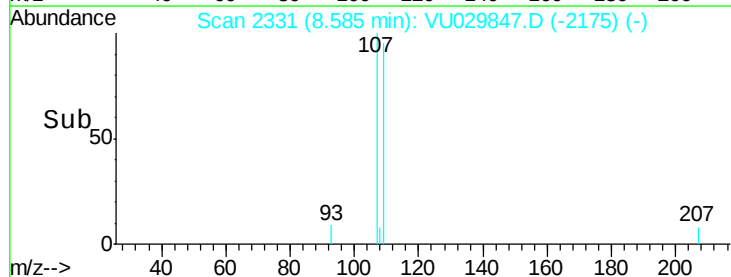
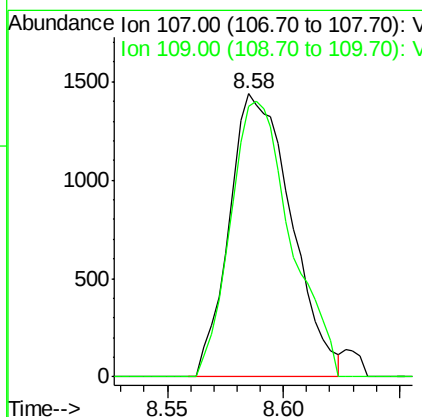
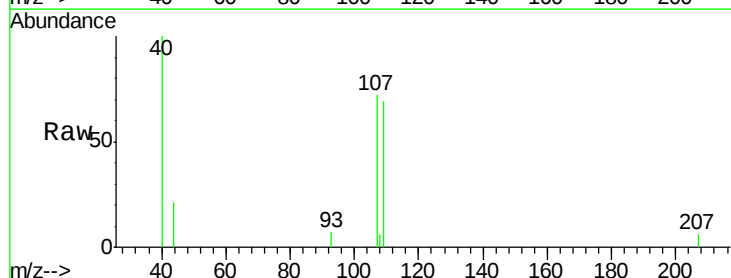
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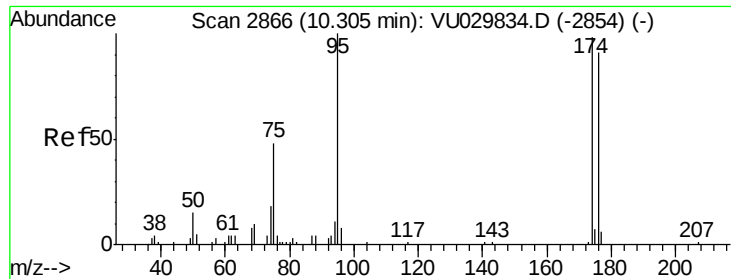
MMDadoda
 3/11/2019 6:48:21 PM



#56
 1,2-Dibromoethane
 Concen: 0.219 ug/l
 RT: 8.58 min Scan# 2331
 Delta R.T. 0.00 min
 Lab File: VU029847.D
 Acq: 07 Mar 2019 11:17

Tgt Ion	Ratio	Lower	Upper
107	100		
109	95.0	0.0	188.4





#57

4-Bromofluorobenzene

Concen: 0.219 ug/l

RT: 10.31 min Scan# 2867

Delta R.T. 0.00 min

Lab File: VU029847.D

Acq: 07 Mar 2019 11:17

Instrument :

MSVOA_U

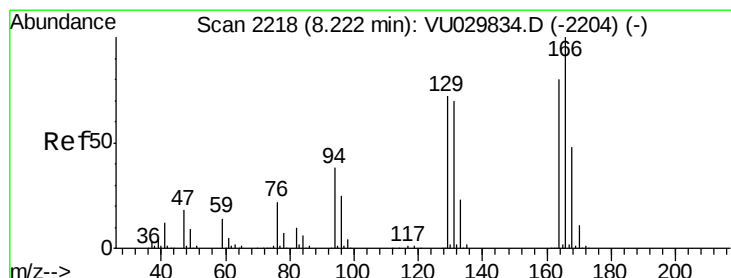
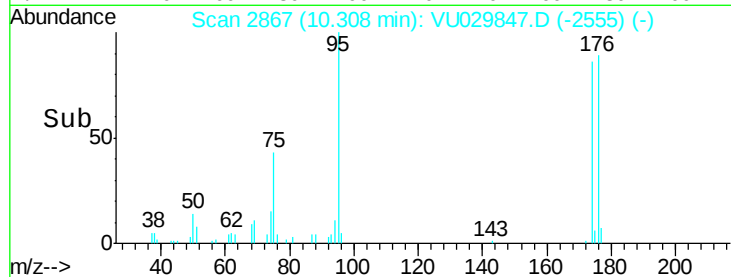
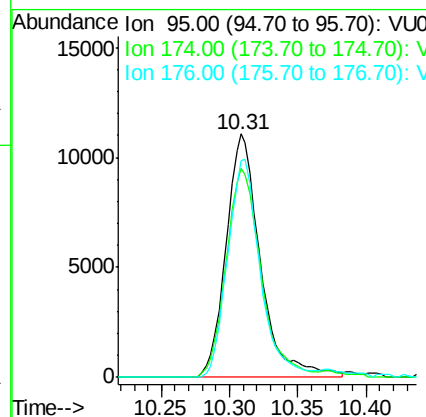
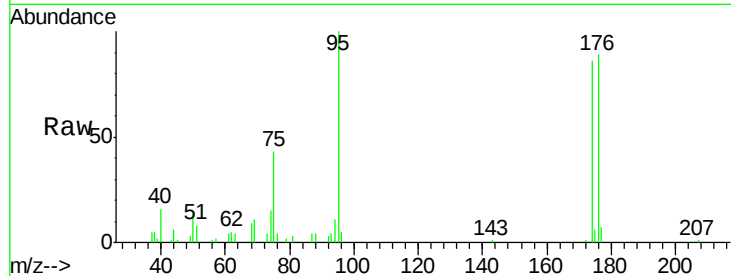
ClientSampleId :

MDL04

Tot Ion:	95	Resp:	19363
Ion	Ratio	Lower	Upper
95	100		
174	87.2	76.5	114.7
176	85.1	74.2	111.2

Manual Integrations
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#58

Tetrachloroethene

Concen: 0.251 ug/l

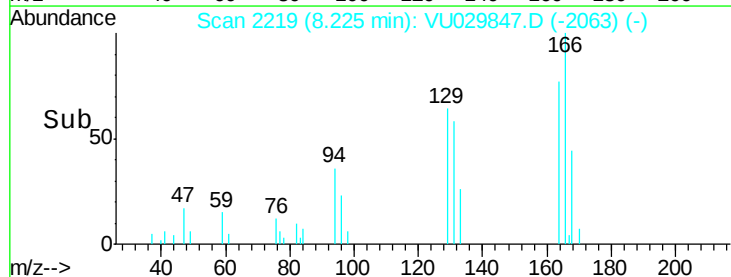
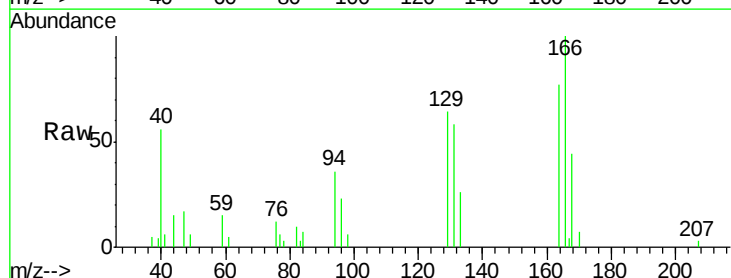
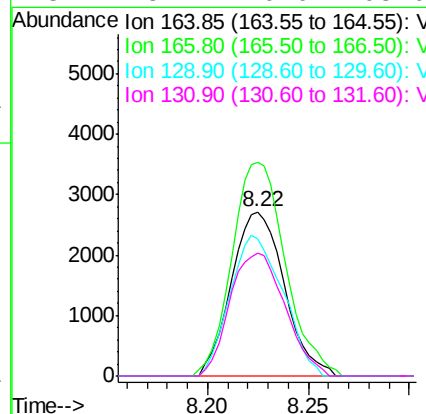
RT: 8.22 min Scan# 2219

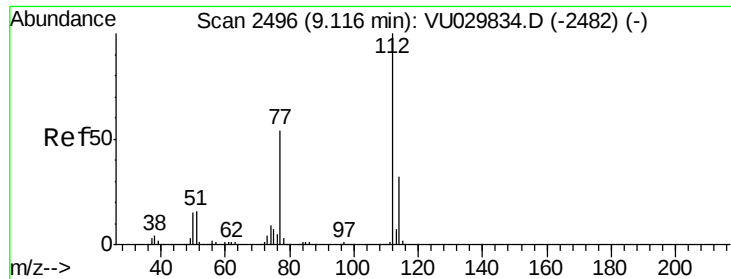
Delta R.T. 0.00 min

Lab File: VU029847.D

Acq: 07 Mar 2019 11:17

Tgt Ion:	164	Resp:	4970
Ion	Ratio	Lower	Upper
164	100		
166	130.1	100.5	150.7
129	83.3	72.3	108.5
131	75.2	70.0	105.0





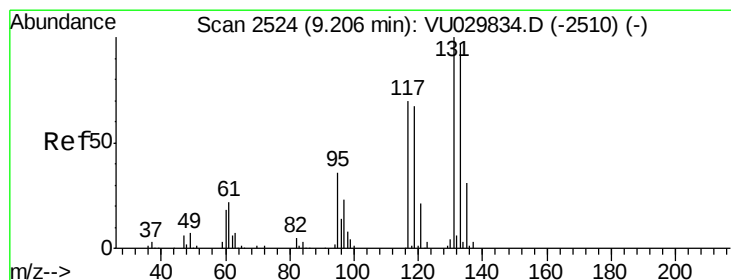
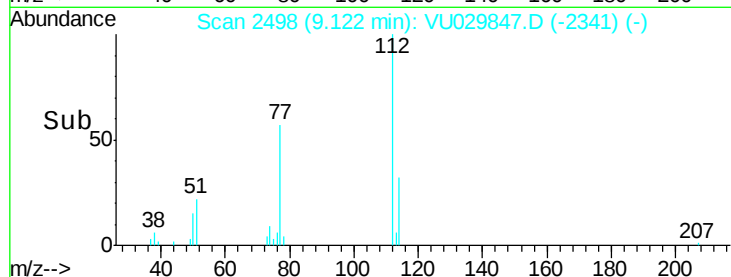
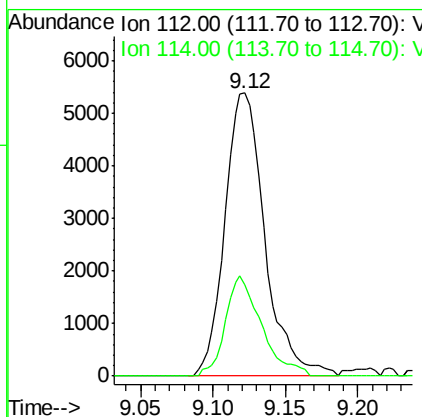
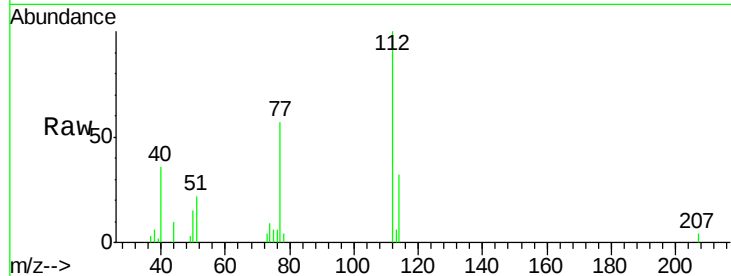
#59
Chlorobenzene
Concen: 0.220 ug/l
RT: 9.12 min Scan# 2498
Delta R.T. 0.01 min
Lab File: VU029847.D
Acq: 07 Mar 2019 11:17

Instrument :
MSVOA_U
ClientSampleId :
MDL04

Tot Ion:112 Resp: 10292
Ion Ratio Lower Upper
112 100
114 32.3 25.4 38.2

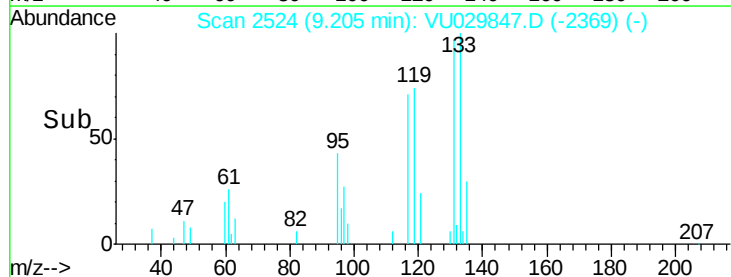
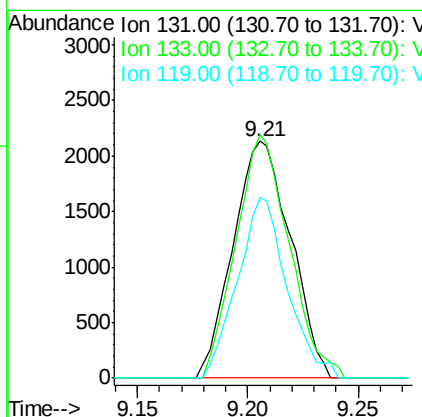
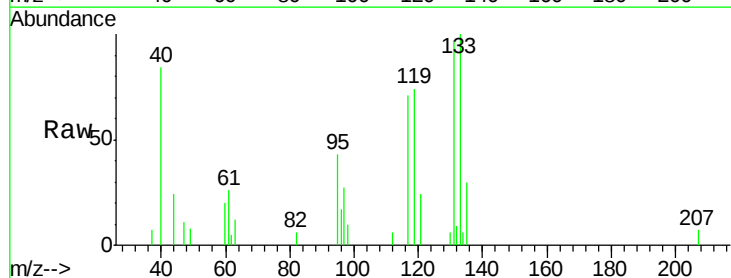
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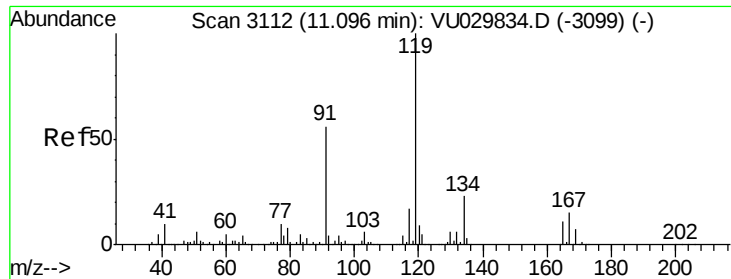
MMDadoda
3/11/2019 6:48:21 PM



#60
1,1,1,2-Tetrachloroethane
Concen: 0.229 ug/l
RT: 9.21 min Scan# 2524
Delta R.T. -0.00 min
Lab File: VU029847.D
Acq: 07 Mar 2019 11:17

Tgt Ion:131 Resp: 3846
Ion Ratio Lower Upper
131 100
133 95.5 76.4 114.6
119 66.3 54.2 81.4





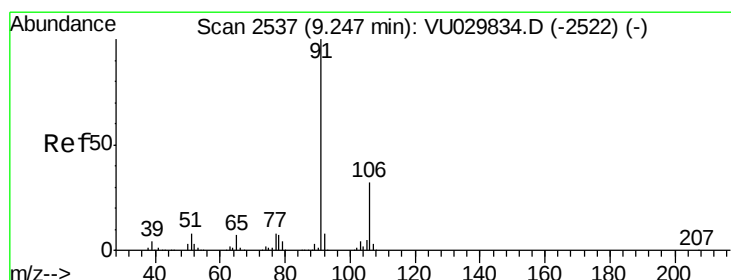
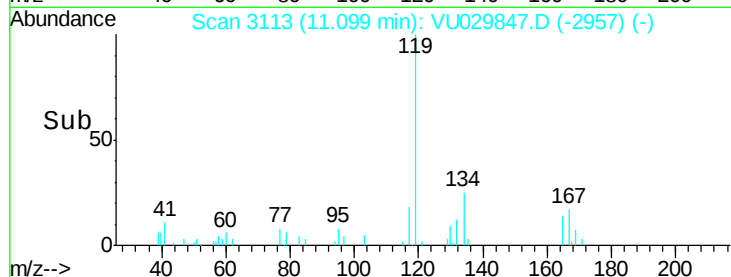
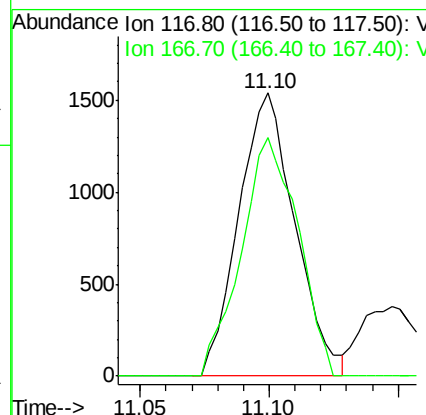
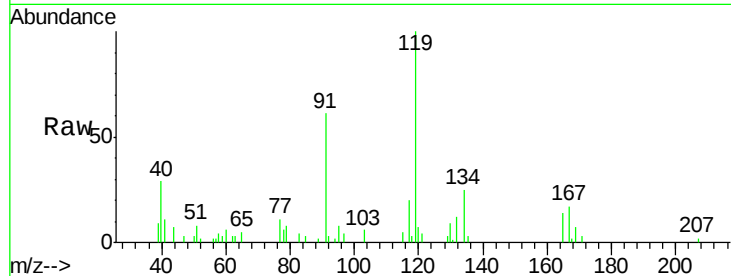
#61
 Pentachloroethane
 Concen: 0.201 ug/l
 RT: 11.10 min Scan# 3113
 Delta R.T. 0.00 min
 Lab File: VU029847.D
 Acq: 07 Mar 2019 11:17

Instrument :
 MSVOA_U
 ClientSampleId :
 MDL04

Tot Ion:117 Resp: 2346
 Ion Ratio Lower Upper
 117 100
 167 85.2 71.4 107.2

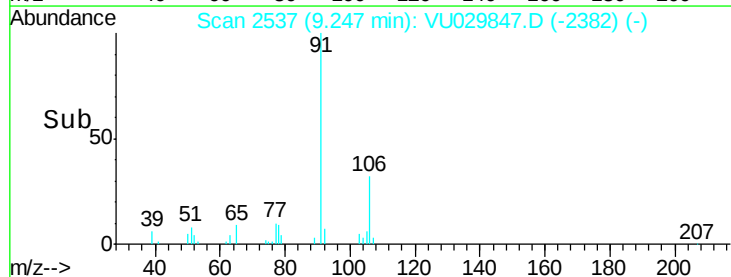
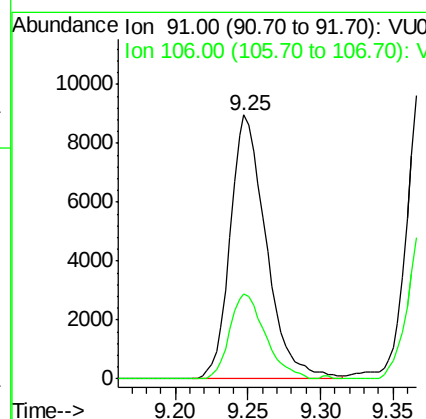
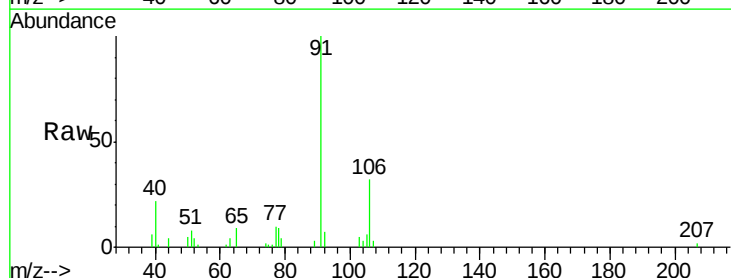
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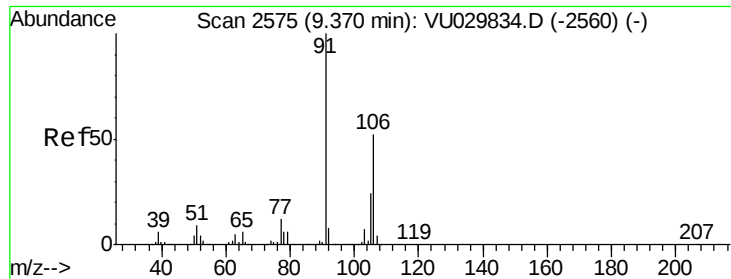
MMDadoda
 3/11/2019 6:48:21 PM



#63
 Ethyl Benzene
 Concen: 0.201 ug/l
 RT: 9.25 min Scan# 2537
 Delta R.T. -0.00 min
 Lab File: VU029847.D
 Acq: 07 Mar 2019 11:17

Tgt Ion: 91 Resp: 15448
 Ion Ratio Lower Upper
 91 100
 106 32.1 25.7 38.5





#64

m/p-Xylenes

Concen: 0.388 ug/l

RT: 9.38 min Scan# 2577

Delta R.T. 0.01 min

Lab File: VU029847.D

Acq: 07 Mar 2019 11:17

Instrument :

MSVOA_U

ClientSampleId :

MDL04

Tot Ion:106 Resp: 11768

Ion Ratio Lower Upper

106 100

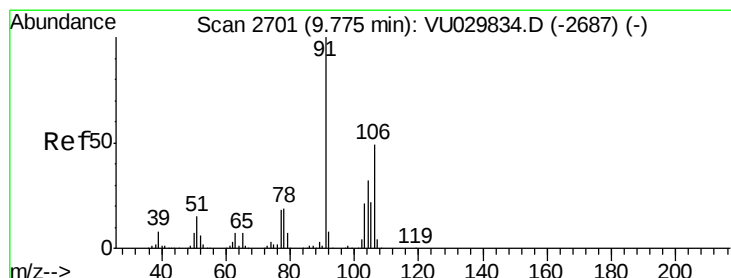
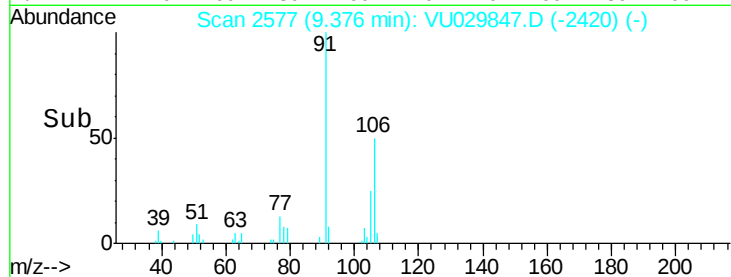
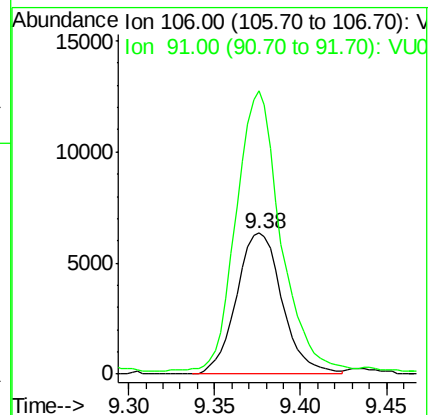
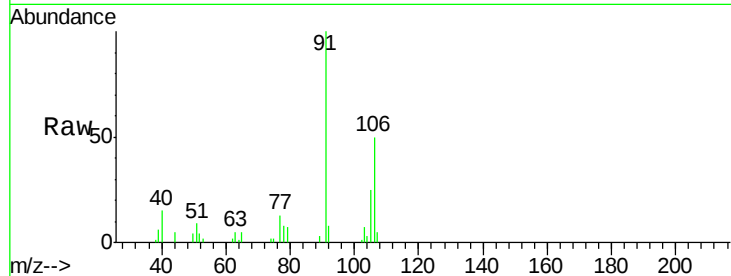
91 193.1 155.3 232.9

Manual Integrations

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#65

o-Xylene

Concen: 0.206 ug/l

RT: 9.78 min Scan# 2703

Delta R.T. 0.01 min

Lab File: VU029847.D

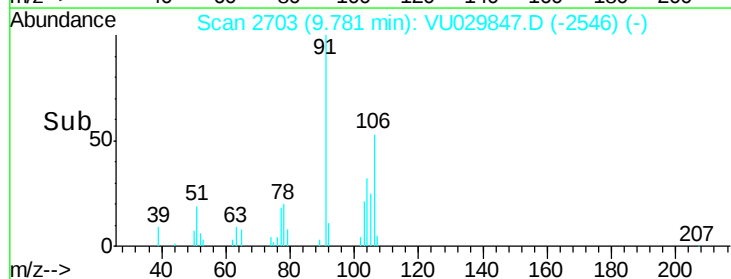
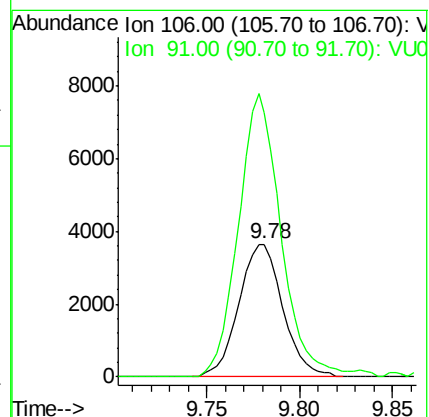
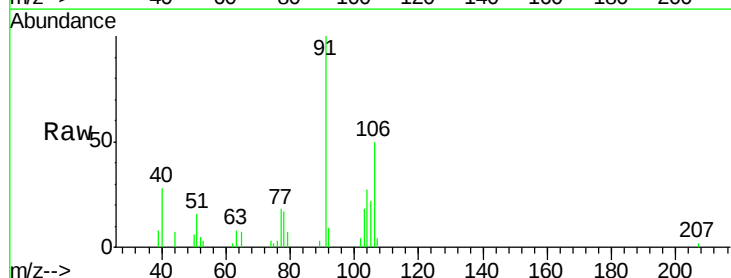
Acq: 07 Mar 2019 11:17

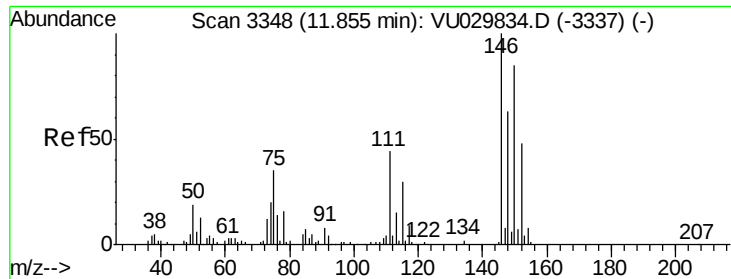
Tgt Ion:106 Resp: 5987

Ion Ratio Lower Upper

106 100

91 206.0 102.8 308.3





#68

1,2-Dichlorobenzene-d4

Concen: Below ug/l

RT: 11.86 min Scan# 3350

Delta R.T. 0.01 min

Lab File: VU029847.D

Acq: 07 Mar 2019 11:17

Instrument :

MSVOA_U

ClientSampled :

MDL04

Tot Ion:152 Resp: 22438

Ion Ratio Lower Upper

152 100

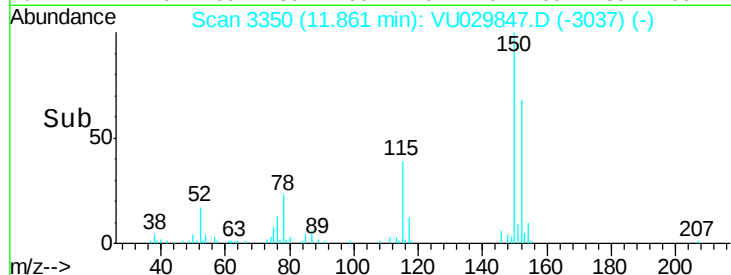
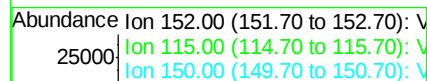
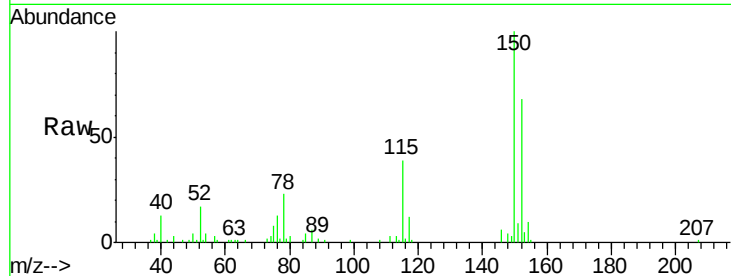
115 61.7 0.0 124.0

150 156.4 0.0 631.2

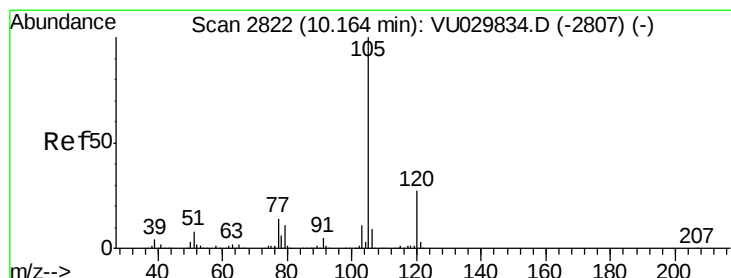
Manual Integrations
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Time-->



#69

Isopropylbenzene

Concen: 0.205 ug/l

RT: 10.16 min Scan# 2822

Delta R.T. -0.00 min

Lab File: VU029847.D

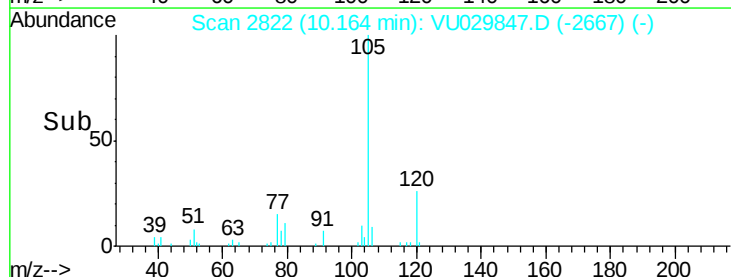
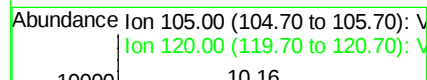
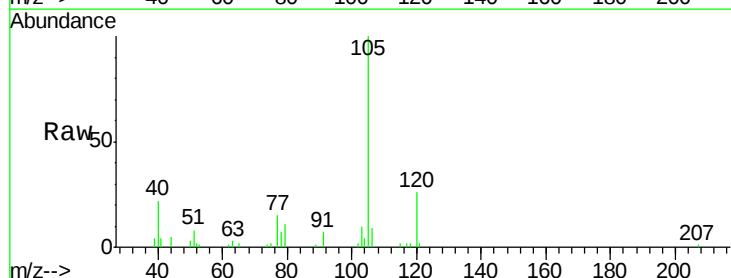
Acq: 07 Mar 2019 11:17

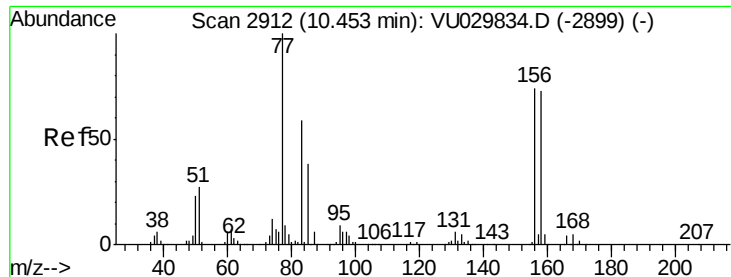
Tgt Ion:105 Resp: 15808

Ion Ratio Lower Upper

105 100

120 26.4 13.5 40.5





#70

1,1,2,2-Tetrachloroethane

Concen: 0.222 ug/l

RT: 10.46 min Scan# 2913

Delta R.T. 0.00 min

Lab File: VU029847.D

Acq: 07 Mar 2019 11:17

Instrument :

MSVOA_U

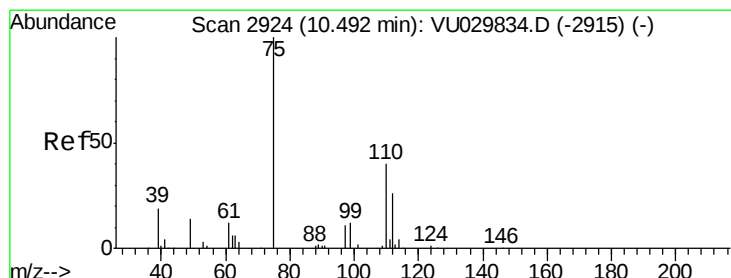
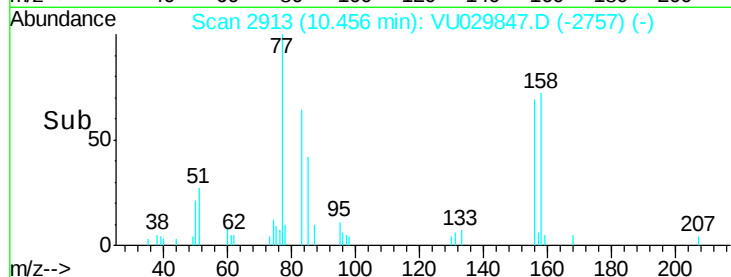
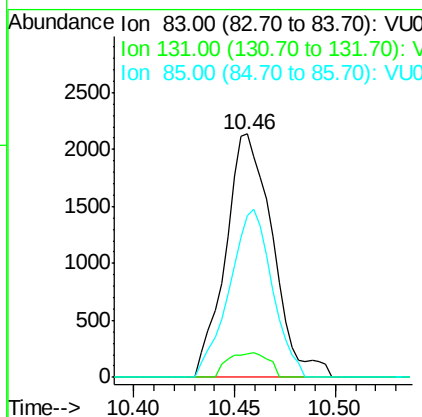
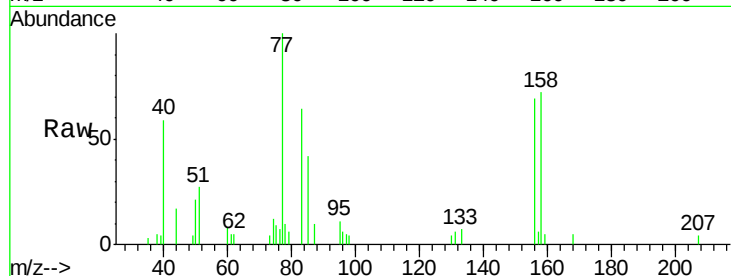
ClientSampled :

MDL04

Tot Ion:	83	Resp:	3488
Ion Ratio	Lower	Upper	
83	100		
131	8.8	8.3	12.5
85	62.9	52.5	78.7

Manual Integrations
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#71

1,2,3-Trichloropropane

Concen: 0.213 ug/l m

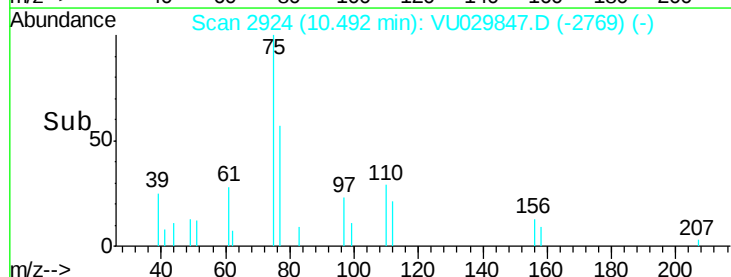
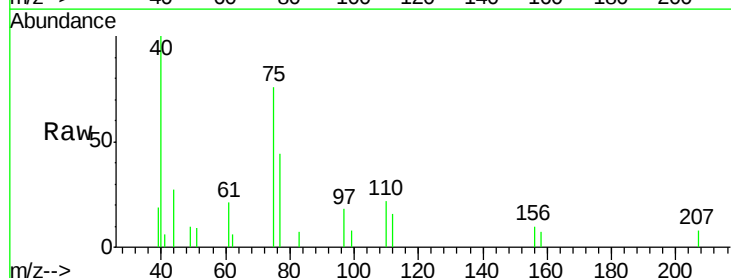
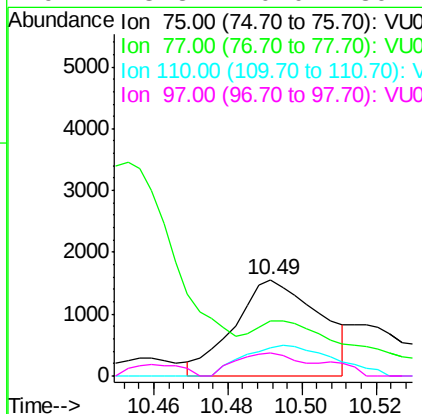
RT: 10.49 min Scan# 2924

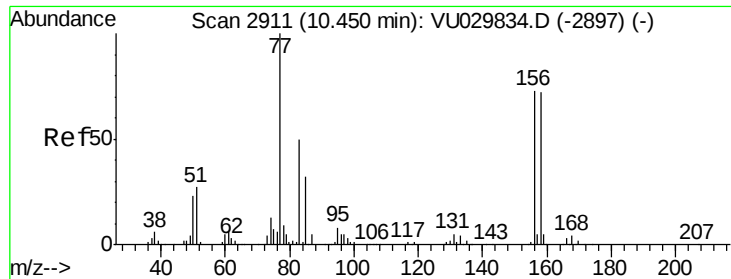
Delta R.T. -0.00 min

Lab File: VU029847.D

Acq: 07 Mar 2019 11:17

Tgt Ion:	75	Resp:	2490
Ion Ratio	Lower	Upper	
75	100		
77	70.0	0.0	16.4#
110	33.8	0.0	74.8
97	23.3	0.0	39.4





#72

Bromobenzene

Concen: 0.219 ug/l

RT: 10.45 min Scan# 2912

Delta R.T. 0.00 min

Lab File: VU029847.D

Acq: 07 Mar 2019 11:17

Instrument :

MSVOA_U

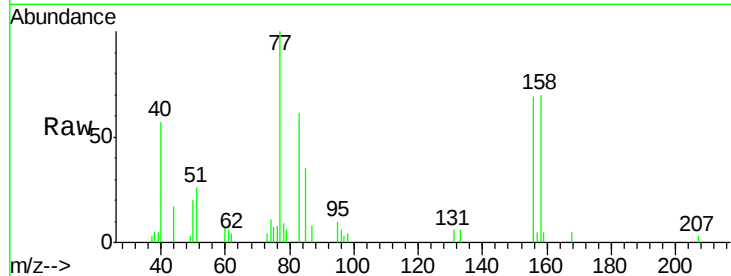
ClientSampleId :

MDL04

Tot Ion	Ion	Ratio	Resp	Lower	Upper
156	100		4481		
77	138.7	0.0	282.2		
158	95.2	0.0	196.2		

Manual Integrations
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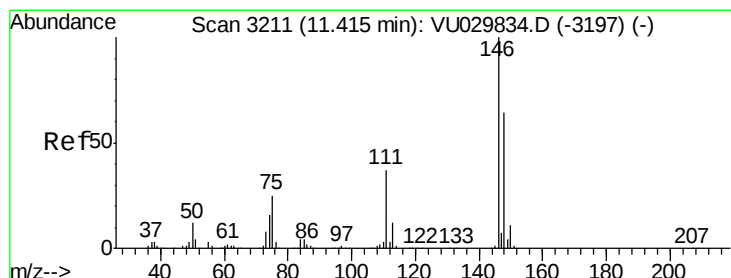
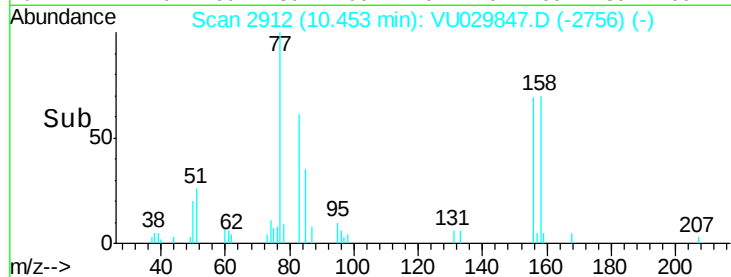
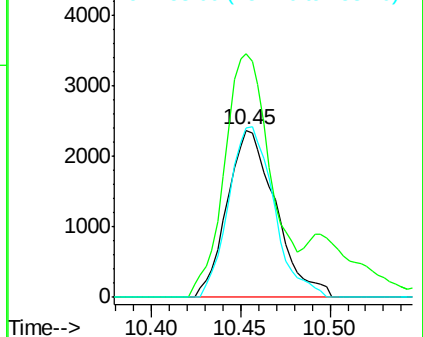
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Abundance Ion 156.00 (155.70 to 156.70): V

Ion 77.00 (76.70 to 77.70): V

Ion 158.00 (157.70 to 158.70): V



#82

1,3-Dichlorobenzene

Concen: 0.219 ug/l

RT: 11.42 min Scan# 3212

Delta R.T. 0.00 min

Lab File: VU029847.D

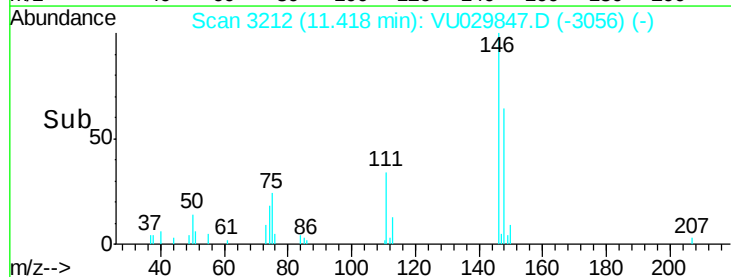
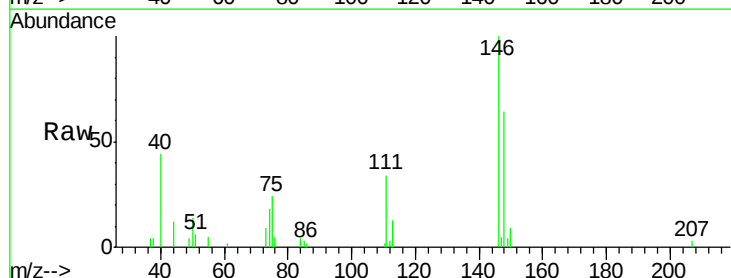
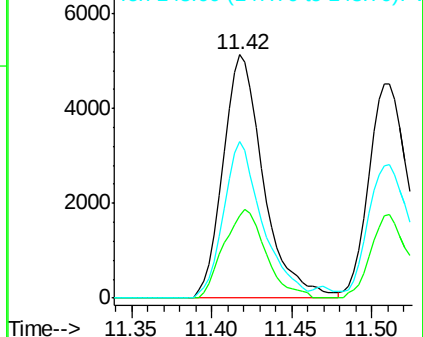
Acq: 07 Mar 2019 11:17

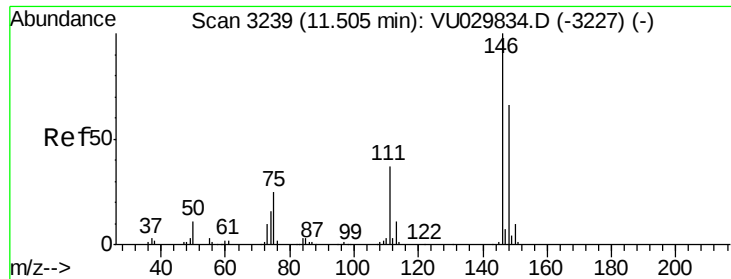
Tgt Ion	Ion	Ratio	Resp	Lower	Upper
146	100		8886		
111	37.5	30.2	45.4		
148	62.0	51.2	76.8		

Abundance Ion 146.00 (145.70 to 146.70): V

Ion 111.00 (110.70 to 111.70): V

Ion 148.00 (147.70 to 148.70): V





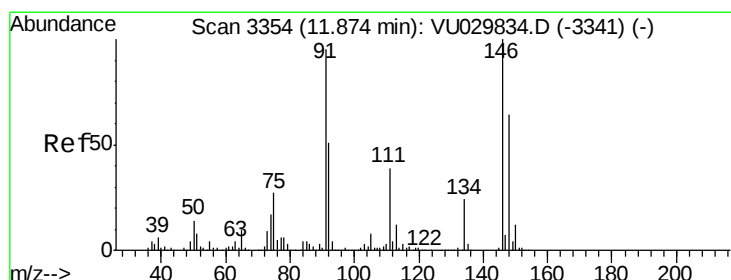
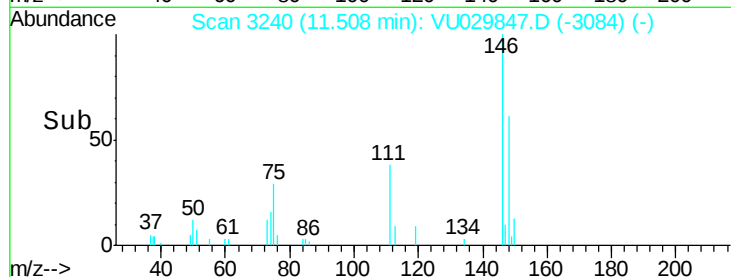
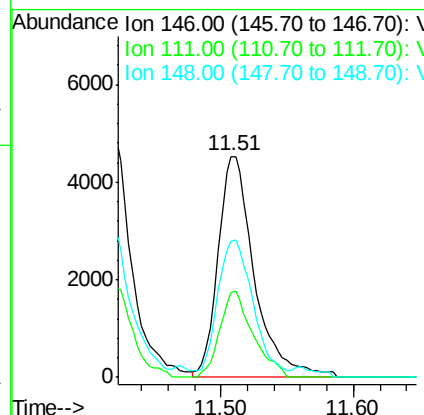
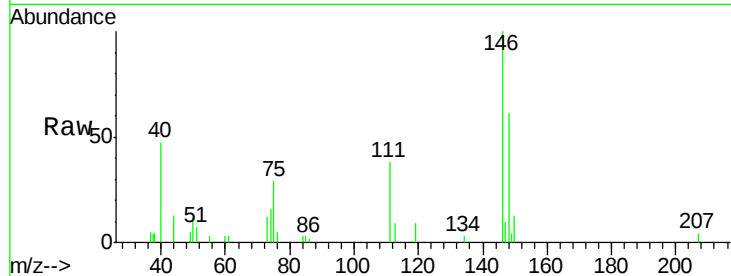
#83
 1,4-Dichlorobenzene
 Concen: 0.218 ug/l
 RT: 11.51 min Scan# 3240
 Delta R.T. 0.00 min
 Lab File: VU029847.D
 Acq: 07 Mar 2019 11:17

Instrument :
 MSVOA_U
 ClientSampled :
 MDL04

Tot Ion	Ratio	Lower	Upper
146	100		
111	35.5	29.4	44.2
148	56.6	51.7	77.5

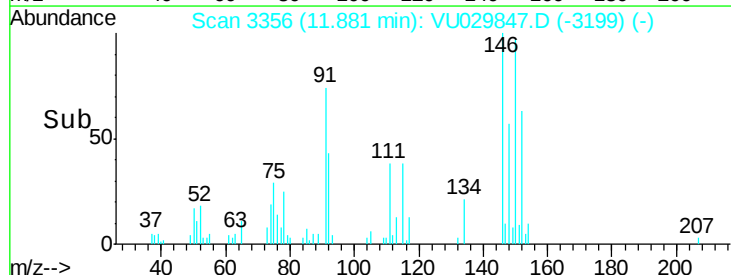
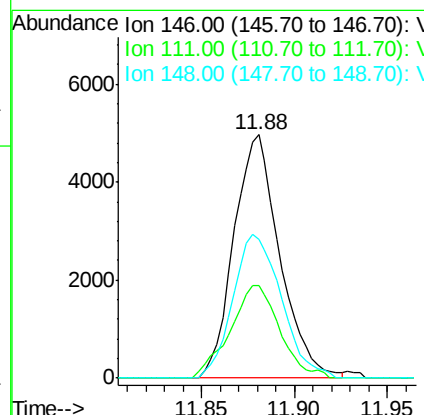
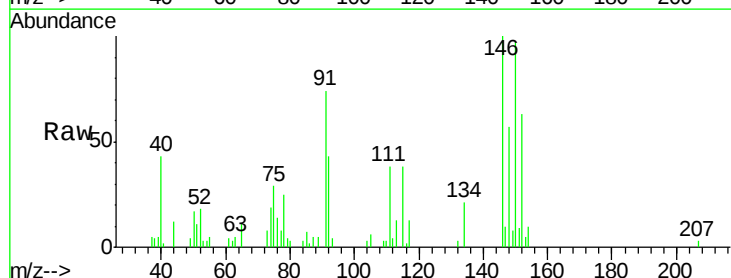
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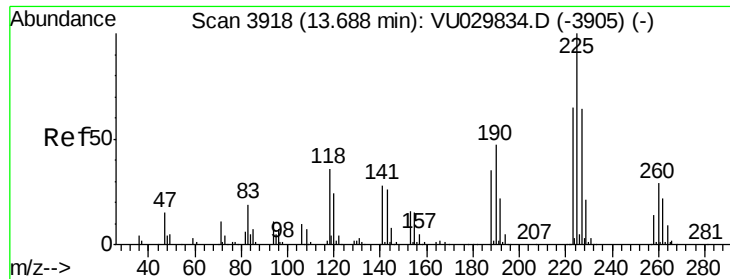
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#85
 1,2-Dichlorobenzene
 Concen: 0.223 ug/l
 RT: 11.88 min Scan# 3356
 Delta R.T. 0.01 min
 Lab File: VU029847.D
 Acq: 07 Mar 2019 11:17

Tgt Ion	Ratio	Lower	Upper
146	100		
111	41.1	19.9	59.6
148	62.4	32.1	96.3





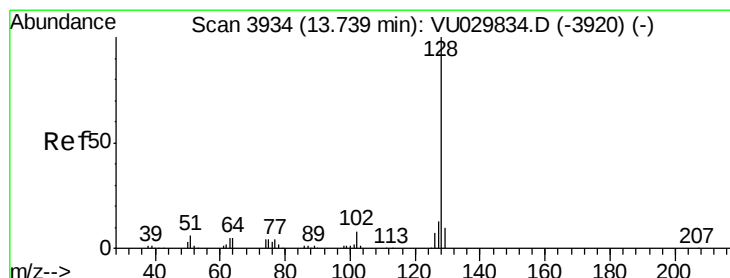
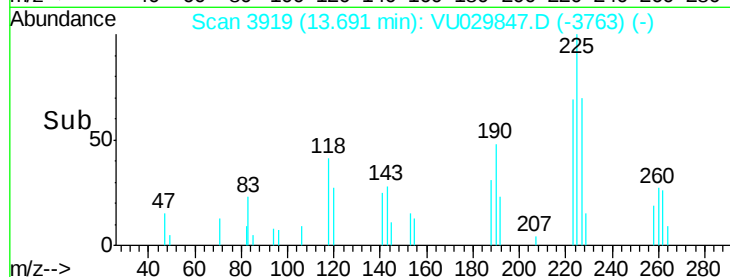
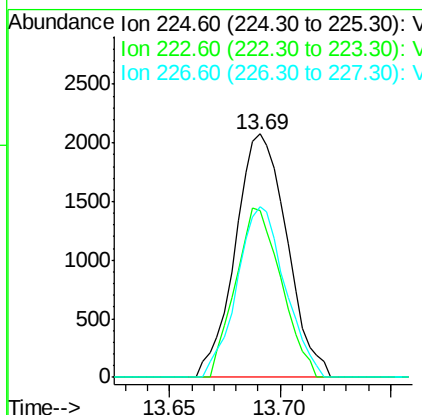
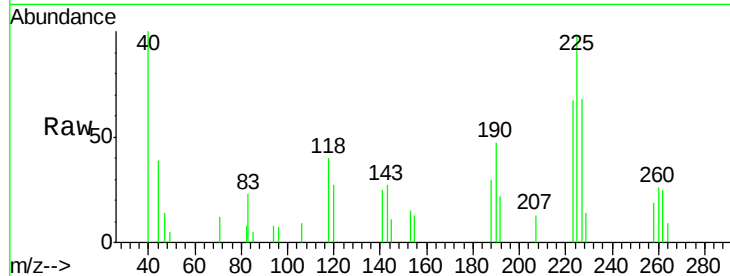
#88
Hexachlorobutadiene
Concen: 0.219 ug/l
RT: 13.69 min Scan# 3919
Delta R.T. 0.00 min
Lab File: VU029847.D
Acq: 07 Mar 2019 11:17

Instrument :
MSVOA_U
ClientSampled :
MDL04

Tot Ion	Ratio	Lower	Upper
225	100		
223	62.0	51.2	76.8
227	65.4	50.9	76.3

Manual Integrations
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#89
Naphthalene
Concen: 0.558 ug/l
RT: 13.76 min Scan# 3939
Delta R.T. 0.02 min
Lab File: VU029847.D
Acq: 07 Mar 2019 11:17

Tgt Ion	Ratio	Lower	Upper
128	100		
127	7.7	10.2	15.4#
129	4.5	8.2	12.4#

