

Data Path : Z:\VOASRV\HPCHEM1\MSVOA U\DATA\U020819\
 Data File : VU029386.D
 Acq On : 08 Feb 2019 19:58
 Operator : JC/SP
 Sample : VSTDCCC010
 Misc : 25.0mL/MSVOA U/WATER
 ALS Vial : 17 Sample Multiplier: 1

Instrument :
 MSVOA_U
 ClientSampleID :
 VSTDCCC010EC

Manual Integrations
 APPROVED

MMDadoda

2/18/2019 12:16:07 PM

Quant Time: Feb 09 04:06:30 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA U\METHOD\524U020519DW.M
 Quant Title : METHOD 524.2 VOLATILES DRINKING WATER
 QLast Update : Fri Feb 08 10:52:46 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
-----	-----	-----	-----	-----	-----	-----
1) Fluorobenzene	5.74	96	53417	1.00	ug/l	0.00
System Monitoring Compounds						
57) 4-Bromofluorobenzene	10.31	95	22199	1.06	ug/l	0.00
Spiked Amount 1.000			Recovery	=	106.00%	
68) 1,2-Dichlorobenzene-d4	11.86	152	24036	1.12	ug/l	0.00
Spiked Amount 1.000			Recovery	=	112.00%	
Target Compounds						
					Ovalue	
2) Dichlorodifluoromethane	1.21	85	189566	9.509	ug/l	100
3) Chloromethane	1.33	50	163921	8.998	ug/l	97
4) Vinyl Chloride	1.40	62	208467	9.762	ug/l	99
5) Bromomethane	1.62	94	124907	10.515	ug/l	96
6) Chloroethane	1.70	64	128369	10.289	ug/l	98
7) Trichlorofluoromethane	1.88	101	324055	10.866	ug/l	96
8) 1,1,2-Trichloro-1,2,2-trif	2.29	101	174162	11.060	ug/l	88
9) 1,1-Dichloroethene	2.28	96	169867	11.023	ug/l	70
10) Iodomethane	2.41	142	244182	10.570	ug/l #	78
11) Allyl Chloride	2.59	41	245619	9.505	ug/l	93
12) Acrylonitrile	2.94	53	69300	20.065	ug/l	96
13) Acetone	2.32	43	140192	42.118	ug/l #	83
14) Carbon Disulfide	2.48	76	559648	10.286	ug/l	99
15) Methylene Chloride	2.70	84	187672	10.044	ug/l #	77
16) trans-1,2-Dichloroethene	2.98	96	191207	11.096	ug/l #	77
17) 1,1-Dichloroethane	3.44	63	336707	12.330	ug/l	96
18) 2-Butanone	4.27	43	178595	48.006	ug/l	98
19) Cyclohexane	4.99	56	195608	7.726	ug/l #	81
20) Methylcyclohexane	6.41	83	266934	10.038	ug/l #	83
21) 2,2-Dichloropropane	4.22	77	233897	9.254	ug/l #	90
22) cis-1,2-Dichloroethene	4.22	96	180160	11.098	ug/l	75
23) Diethyl Ether	2.10	59	126361	10.212	ug/l	87
24) tert-Butyl Alcohol	2.83	59	131280	102.087	ug/l	97
25) Methyl tert-Butyl Ether	3.00	73	459994	10.602	ug/l #	86
26) Bromochloromethane	4.55	128	80566	11.236	ug/l	71
27) Chloroform	4.67	83	286965	10.806	ug/l	97
28) 1,1,1-Trichloroethane	4.91	97	264343	10.739	ug/l	94
29) 1,1-Dichloropropene	5.13	75	221025	10.344	ug/l	91
30) Carbon Tetrachloride	5.13	117	244852	10.988	ug/l	99
31) Isopropyl Ether	3.58	45	396602	9.625	ug/l	89
32) Ethyl-t-butyl ether	4.07	59	406373	9.842	ug/l #	86
33) Tert-Amyl methyl ether	5.58	73	388404	10.403	ug/l	99
34) Propionitrile	4.33	54	51522	52.688	ug/l #	91
35) Benzene	5.39	78	621851	10.524	ug/l	100
36) 1,2-Dichloroethane	5.40	62	178060	9.963	ug/l #	89
37) Trichloroethene	6.18	130	197343	11.638	ug/l	83
38) 1,2-Dichloropropane	6.43	63	156141	10.158	ug/l	100
39) Methacrylonitrile	4.55	41	46309	9.247	ug/l #	86
40) Methyl acrylate	4.42	55	75918	10.043	ug/l #	91
41) Tetrahydrofuran	4.65	42	46333	18.368	ug/l #	80
42) 1-Chlorobutane	5.06	56	283202	9.892	ug/l	86

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Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
43) Dibromomethane	6.56	93	86451	10.554	ug/l #	89
44) Bromodichloromethane	6.76	83	217911	10.440	ug/l	94
45) 4-Methyl-2-Pentanone	7.46	43	458015	47.697	ug/l #	88
46) t-1,4-Dichloro-2-butene	10.51	75	88406m	18.897	ug/l	
47) Methyl methacrylate	6.62	69	156151	21.666	ug/l #	71
48) Ethyl methacrylate	8.02	69	163622	10.582	ug/l	76
49) Toluene	7.63	92	415030	10.976	ug/l	98
50) t-1,3-Dichloropropene	7.88	75	206799	10.107	ug/l	95
51) cis-1,3-Dichloropropene	7.27	75	251864	10.362	ug/l #	85
52) 1,1,2-Trichloroethane	8.06	97	119273	10.998	ug/l	98
53) 1,3-Dichloropropane	8.24	76	200644	10.532	ug/l	98
54) 2-Hexanone	8.36	43	321607	47.780	ug/l	86
55) Dibromochloromethane	8.48	129	171902	11.152	ug/l	99
56) 1,2-Dibromoethane	8.58	107	118376	10.639	ug/l	100
58) Tetrachloroethene	8.22	164	189313	11.998	ug/l	93
59) Chlorobenzene	9.12	112	486869	11.430	ug/l	99
60) 1,1,1,2-Tetrachloroethane	9.21	131	179569	11.409	ug/l	98
61) Pentachloroethane	11.10	117	137418	11.265	ug/l	84
62) Hexachloroethane	12.14	117	147778	11.099	ug/l	91
63) Ethyl Benzene	9.25	91	807828	10.921	ug/l	93
64) m/p-Xylenes	9.37	106	655244	22.793	ug/l	85
65) o-Xylene	9.78	106	318466	11.286	ug/l	87
66) Styrene	9.79	104	536288	11.401	ug/l	92
67) Bromoform	9.96	173	107891	11.251	ug/l	99
69) Isopropylbenzene	10.16	105	846693	11.231	ug/l	94
70) 1,1,2,2-Tetrachloroethane	10.46	83	148767	10.703	ug/l	96
71) 1,2,3-Trichloropropane	10.49	75	106239m	11.130	ug/l	
72) Bromobenzene	10.45	156	224365	12.278	ug/l	81
73) n-propylbenzene	10.58	120	242889	11.567	ug/l	78
74) 2-Chlorotoluene	10.66	126	207180	11.587	ug/l	75
75) 1,3,5-Trimethylbenzene	10.77	105	717183	11.034	ug/l	94
76) 4-Chlorotoluene	10.77	126	218384	11.768	ug/l	73
77) tert-Butylbenzene	11.10	119	733660	11.419	ug/l	90
78) 1,2,4-Trimethylbenzene	11.14	105	736712	11.196	ug/l	95
79) sec-Butylbenzene	11.32	105	942357	11.210	ug/l	94
80) Nitrobenzene	12.86	77	24216	39.103	ug/l #	91
81) p-Isopropyltoluene	11.47	119	814771	11.434	ug/l	93
82) 1,3-Dichlorobenzene	11.41	146	430391	12.005	ug/l	96
83) 1,4-Dichlorobenzene	11.50	146	429134	12.019	ug/l	96
84) n-Butylbenzene	11.89	91	723172	11.059	ug/l #	95
85) 1,2-Dichlorobenzene	11.88	146	406287	11.986	ug/l	97
86) 1,2-Dibromo-3-Chloropropan	12.66	75	25624	9.878	ug/l #	55
87) 1,2,4-Trichlorobenzene	13.50	180	308346	12.950	ug/l	98
88) Hexachlorobutadiene	13.69	225	175056	12.695	ug/l	99
89) Naphthalene	13.74	128	497088	12.310	ug/l	99
90) 1,2,3-Trichlorobenzene	13.98	180	272369	12.517	ug/l	97

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

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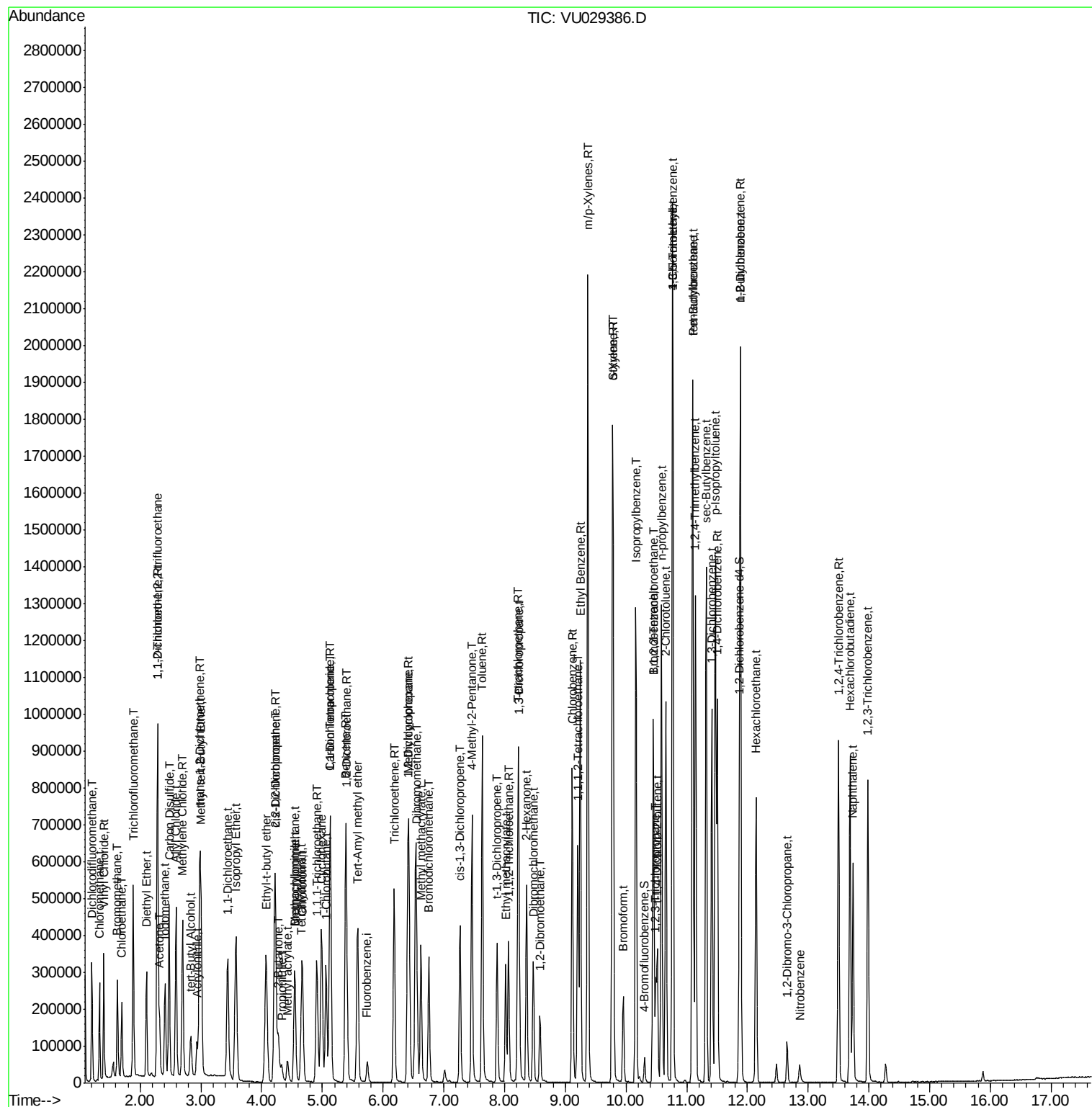
Instrument :
 MSVOA_U
 ClientSampleId :
 VSTDCCC010EC

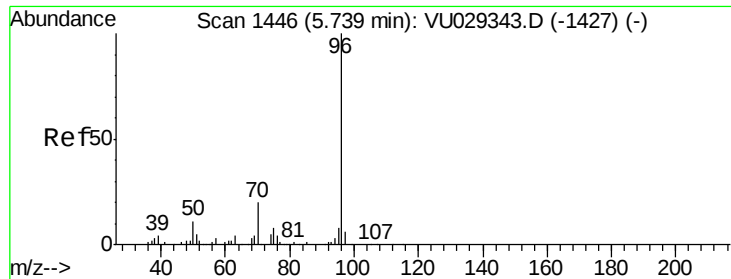
Manual Integrations
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#1

Fluorobenzene

Concen: 1.000 ug/l

RT: 5.74 min Scan# 1446

Delta R.T. -0.00 min

Lab File: VU029386.D

Acq: 08 Feb 2019 19:58

Instrument :

MSVOA_U

ClientSampleId :

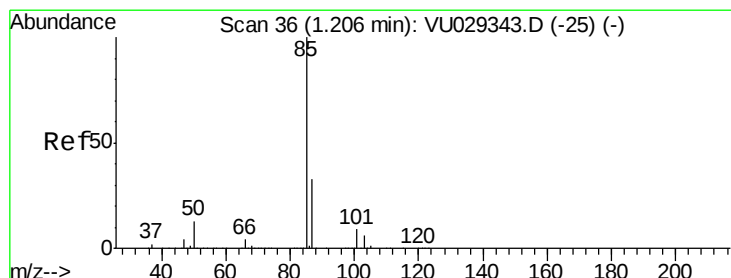
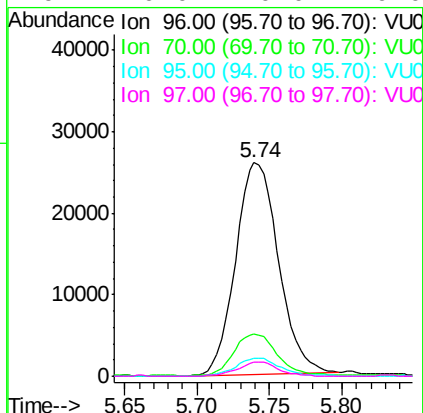
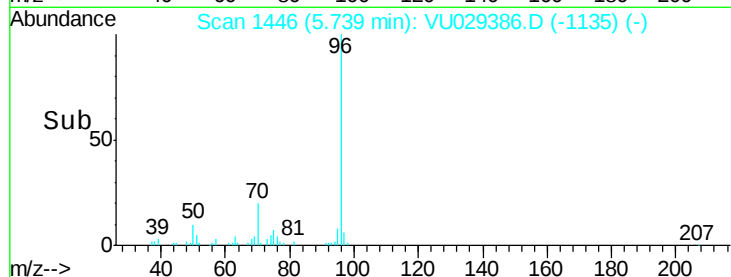
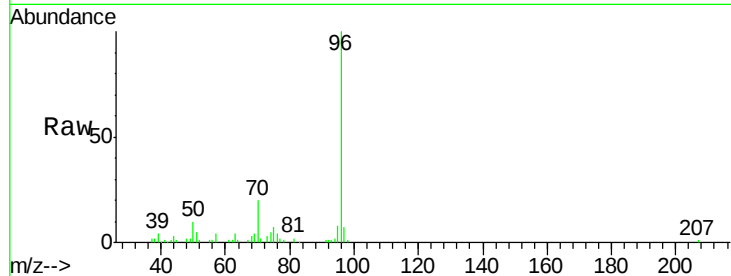
VSTDCCC010EC

Tot Ion:	96	Resp:	53417
Ion	Ratio	Lower	Upper
96	100		
70	19.8	16.2	24.2
95	9.0	7.4	11.2
97	0.0	0.0	0.0

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#2

Dichlorodifluoromethane

Concen: 9.509 ug/l

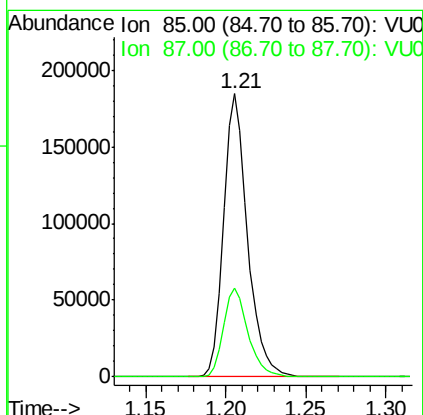
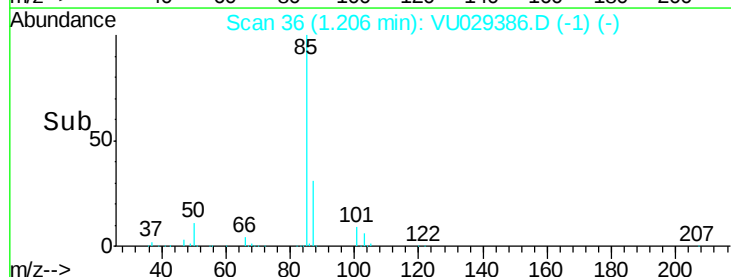
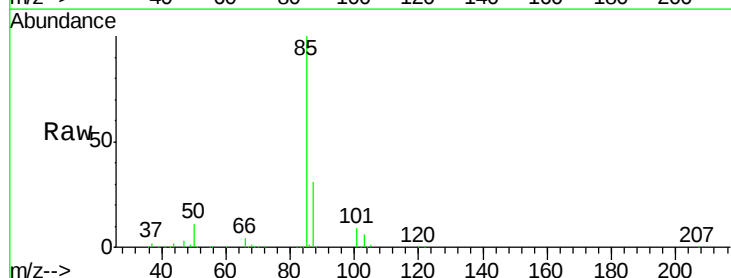
RT: 1.21 min Scan# 36

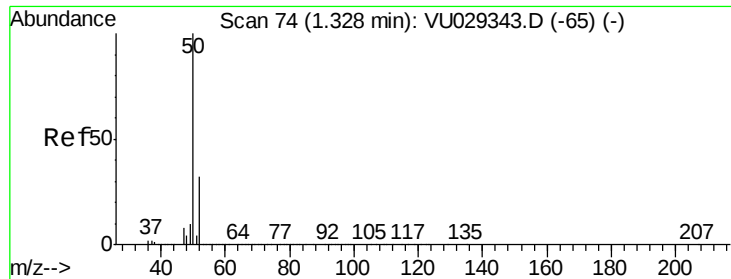
Delta R.T. -0.00 min

Lab File: VU029386.D

Acq: 08 Feb 2019 19:58

Tgt Ion:	85	Resp:	189566
Ion	Ratio	Lower	Upper
85	100		
87	31.5	15.9	47.6





#3

Chloromethane

Concen: 8.998 ug/l

RT: 1.33 min Scan# 74

Delta R.T. -0.00 min

Lab File: VU029386.D

Acq: 08 Feb 2019 19:58

Instrument :

MSVOA_U

ClientSampleId :

VSTDCCC010EC

Tot Ion: 50 Resp: 163921

Ion Ratio Lower Upper

50 100

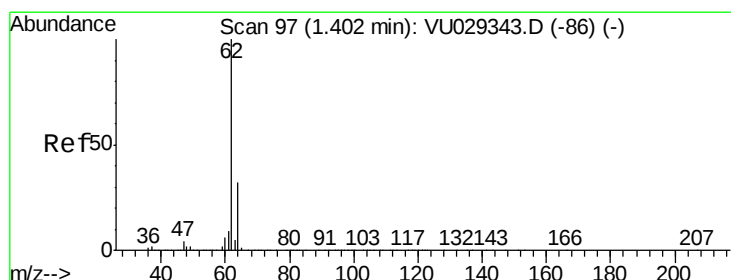
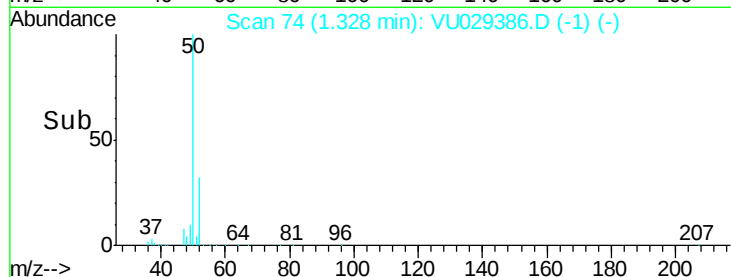
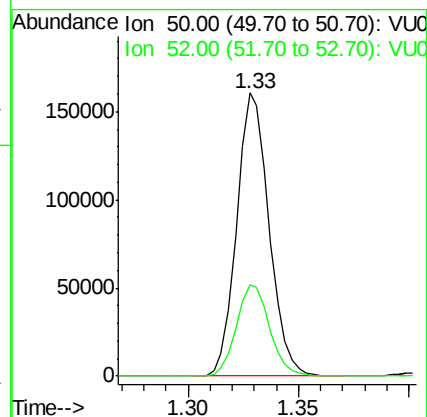
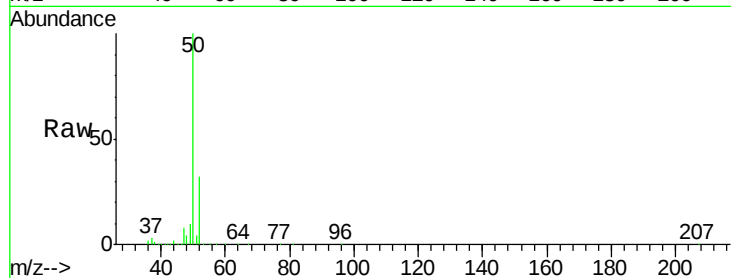
52 32.4 27.3 40.9

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#4

Vinyl Chloride

Concen: 9.762 ug/l

RT: 1.40 min Scan# 97

Delta R.T. -0.00 min

Lab File: VU029386.D

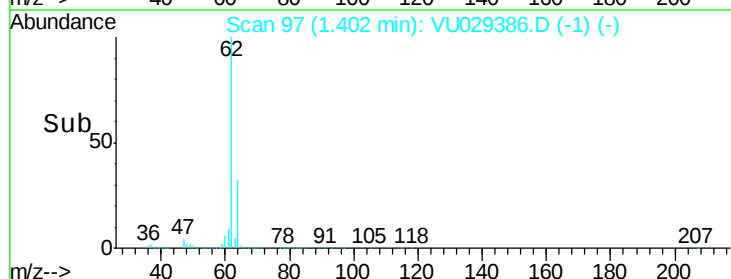
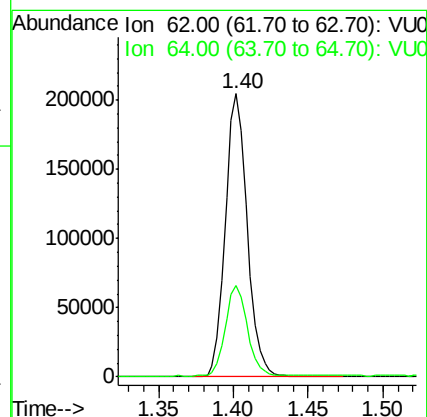
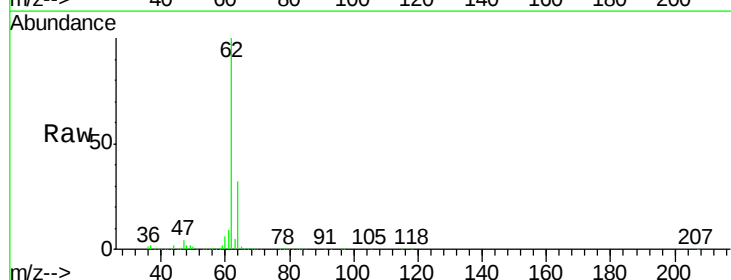
Acq: 08 Feb 2019 19:58

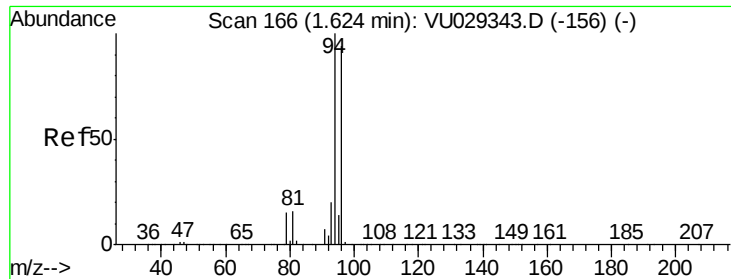
Tgt Ion: 62 Resp: 208467

Ion Ratio Lower Upper

62 100

64 32.0 25.2 37.8





#5

Bromomethane

Concen: 10.515 ug/l

RT: 1.62 min Scan# 166

Delta R.T. -0.00 min

Lab File: VU029386.D

Acq: 08 Feb 2019 19:58

Instrument :

MSVOA_U

ClientSampleId :

VSTDCCC010EC

Tot Ion: 94 Resp: 124907

Ion Ratio Lower Upper

94 100

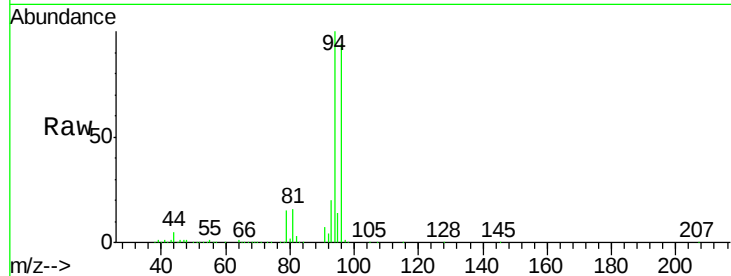
96 93.7 71.7 107.5

Manual Integrations

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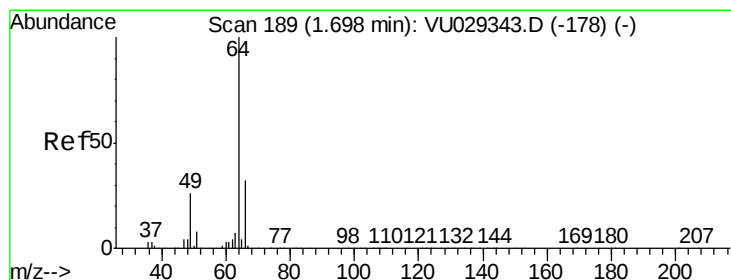
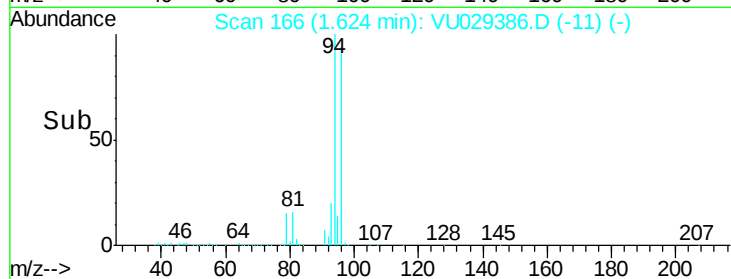
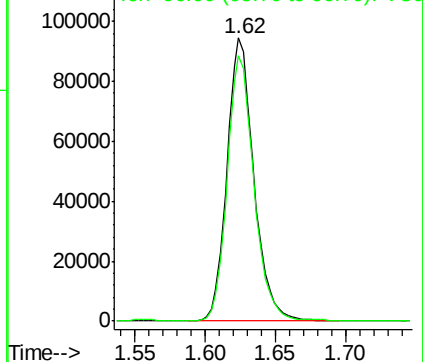
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Abundance Ion 94.00 (93.70 to 94.70): VU0

Ion 96.00 (95.70 to 96.70): VU0



#6

Chloroethane

Concen: 10.289 ug/l

RT: 1.70 min Scan# 189

Delta R.T. -0.00 min

Lab File: VU029386.D

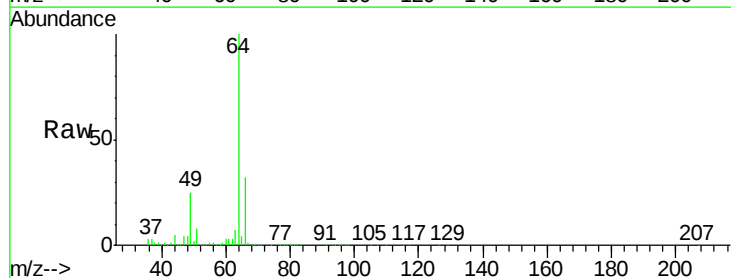
Acq: 08 Feb 2019 19:58

Tgt Ion: 64 Resp: 128369

Ion Ratio Lower Upper

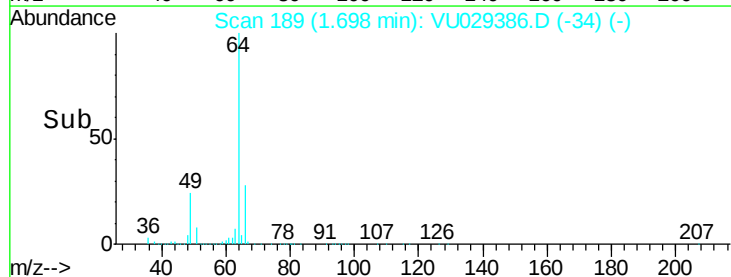
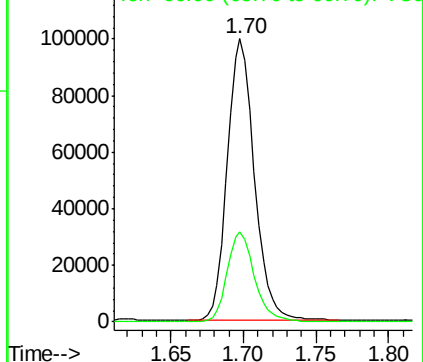
64 100

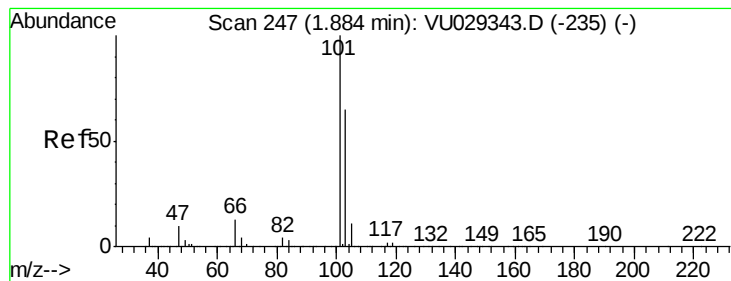
66 31.9 26.3 39.5



Abundance Ion 64.00 (63.70 to 64.70): VU0

Ion 66.00 (65.70 to 66.70): VU0





#7

Trichlorofluoromethane
Concen: 10.866 ug/l
RT: 1.88 min Scan# 247
Delta R.T. -0.00 min
Lab File: VU029386.D
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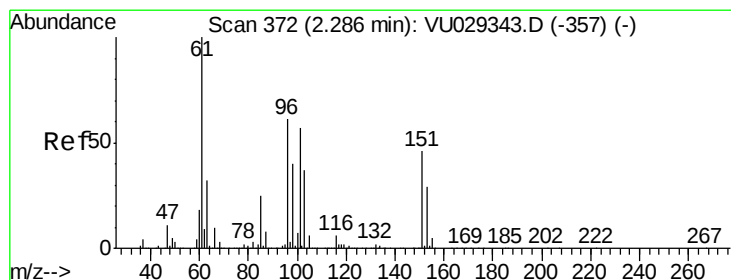
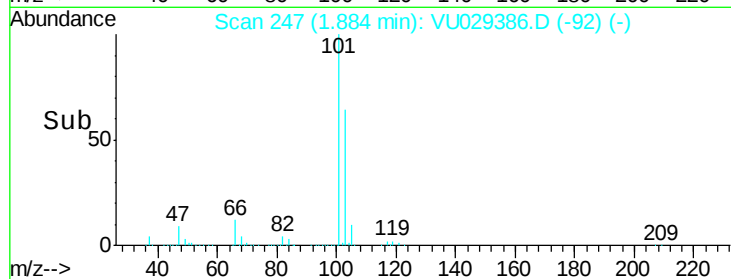
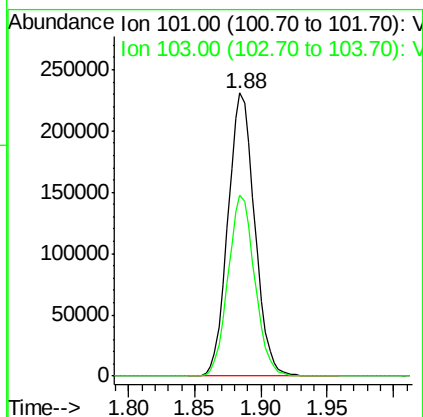
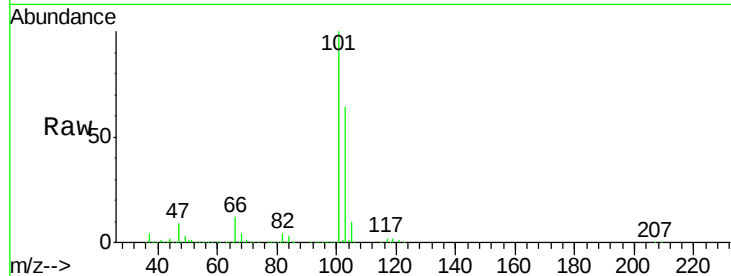
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Tot Ion	Ratio	Lower	Upper
101	100		
103	63.8	53.9	80.9

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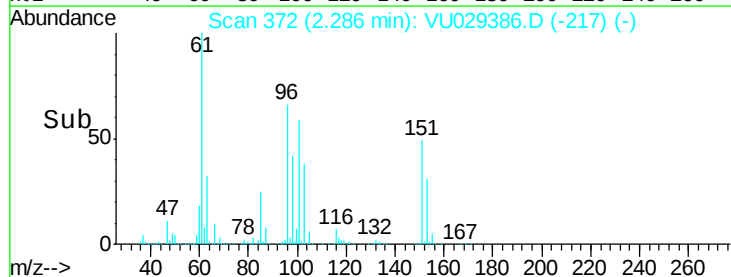
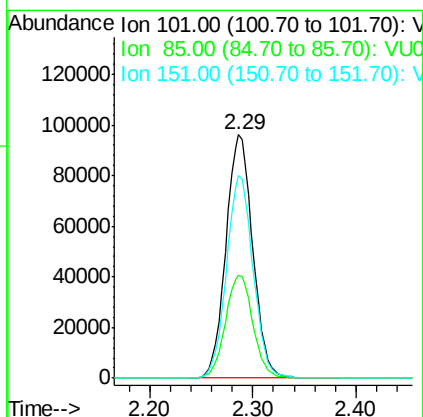
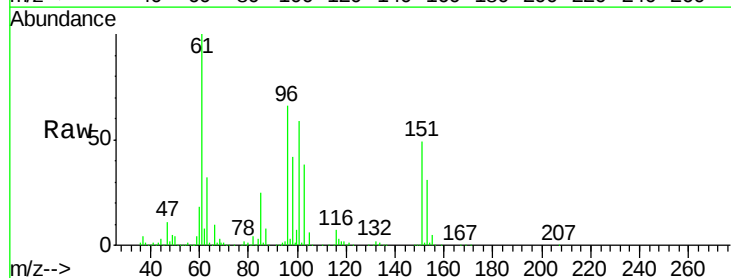
2/18/2019 12:16:07 PM

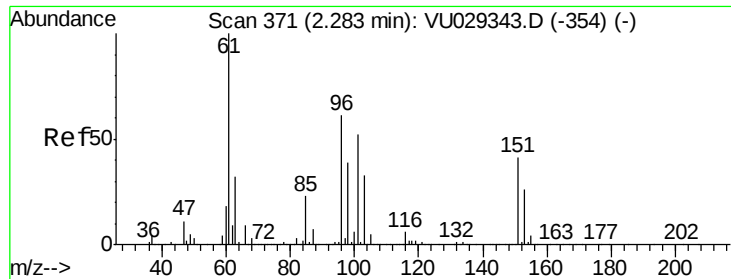


#8

1,1,2-Trichloro-1,2,2-trifluoroethane
Concen: 11.060 ug/l
RT: 2.29 min Scan# 372
Delta R.T. -0.00 min
Lab File: VU029386.D
Acq: 08 Feb 2019 19:58

Tgt Ion	Ratio	Lower	Upper
101	100		
85	42.7	40.3	60.5
151	82.6	58.1	87.1





#9

1,1-Dichloroethene

Concen: 11.023 ug/l

RT: 2.28 min Scan# 371

Delta R.T. -0.00 min

Lab File: VU029386.D

Acq: 08 Feb 2019 19:58

Instrument :

MSVOA_U

ClientSampleId :

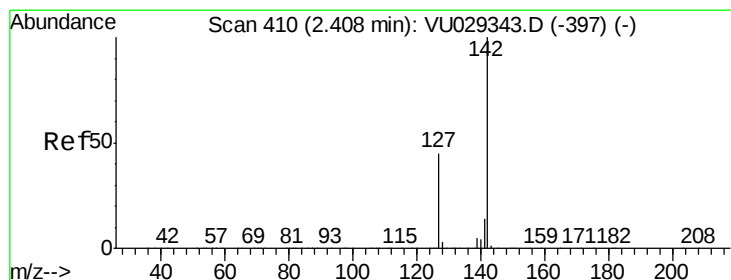
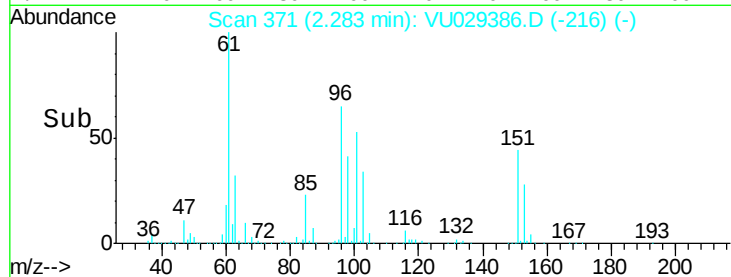
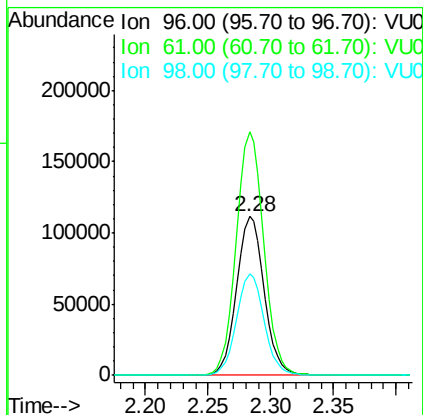
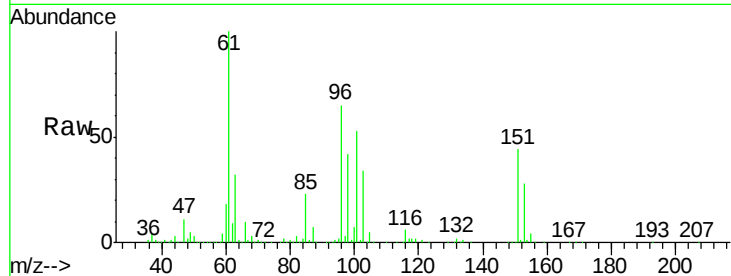
VSTDCCC010EC

Tot Ion:	96	Resp:	169867
Ion Ratio	Lower	Upper	
96	100		
61	153.7	0.0	641.4
98	63.8	0.0	122.6

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#10

Iodomethane

Concen: 10.570 ug/l

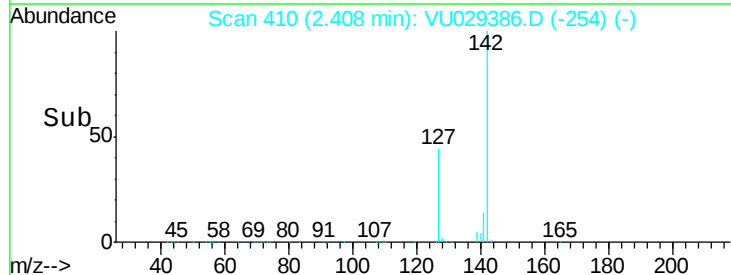
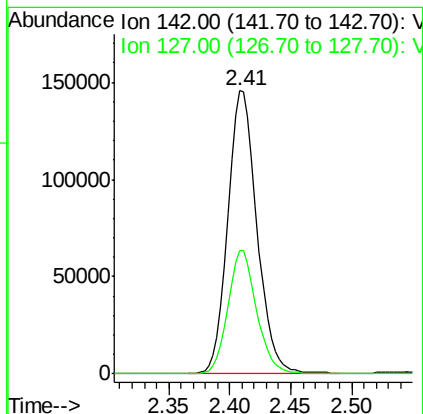
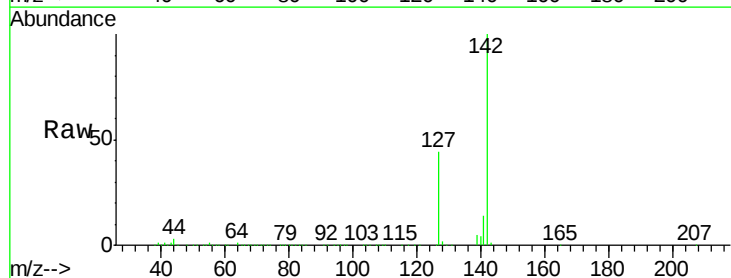
RT: 2.41 min Scan# 410

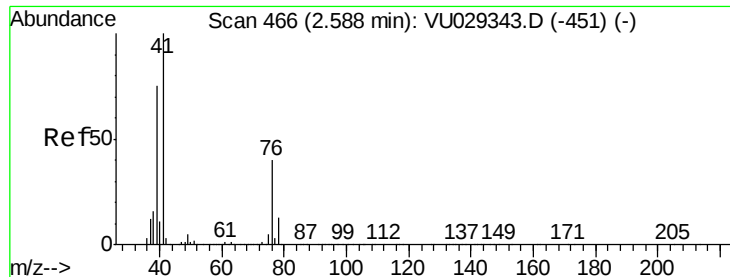
Delta R.T. 0.00 min

Lab File: VU029386.D

Acq: 08 Feb 2019 19:58

Tgt Ion:	142	Resp:	244182
Ion Ratio	Lower	Upper	
142	100		
127	43.1	47.6	71.4#





#11
Allvl Chloride
Concen: 9.505 ug/l
RT: 2.59 min Scan# 467
Delta R.T. 0.00 min
Lab File: VU029386.D
Acq: 08 Feb 2019 19:58

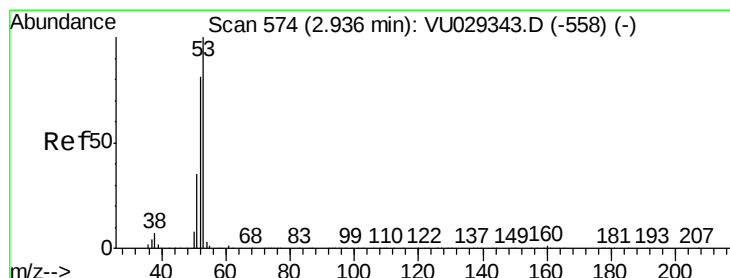
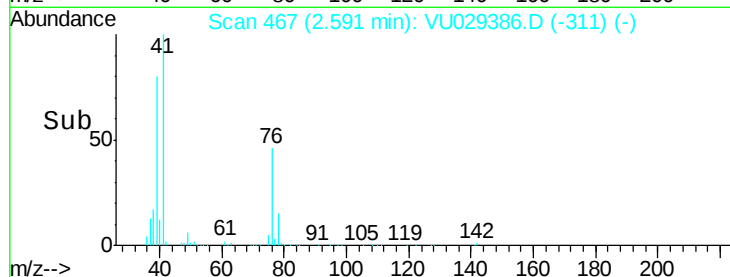
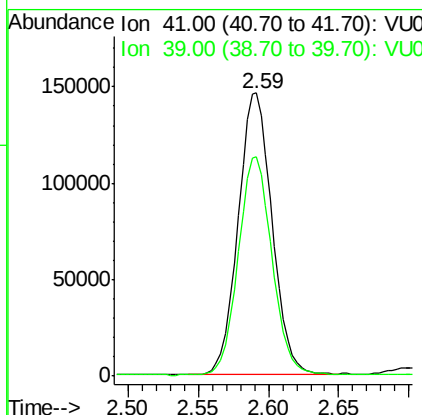
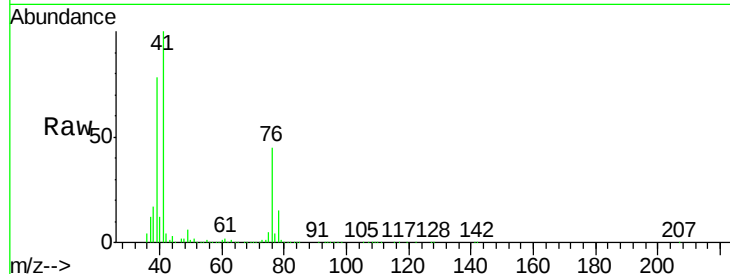
Instrument :
MSVOA_U
ClientSampleId :
VSTDCCC010EC

Tot Ion: 41 Resp: 245619
Ion Ratio Lower Upper
41 100
39 77.3 67.2 100.8

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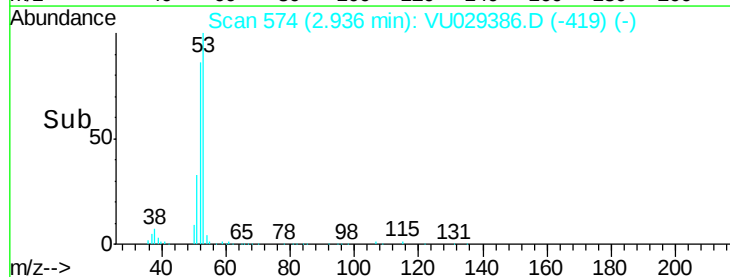
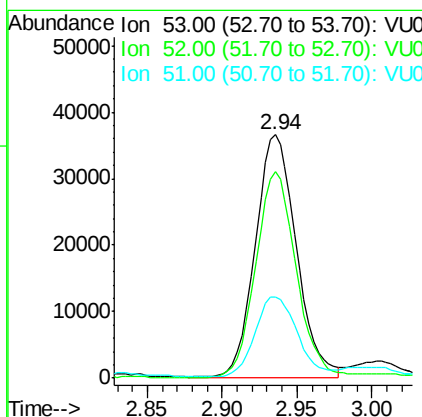
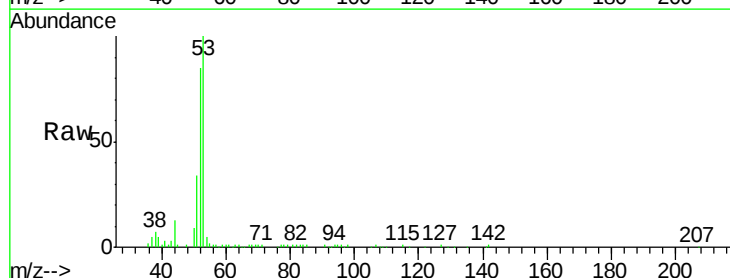
MMDadoda

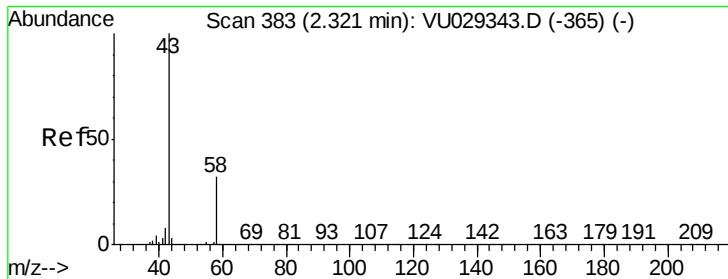
2/18/2019 12:16:07 PM



#12
Acrylonitrile
Concen: 20.065 ug/l
RT: 2.94 min Scan# 574
Delta R.T. -0.00 min
Lab File: VU029386.D
Acq: 08 Feb 2019 19:58

Tgt Ion: 53 Resp: 69300
Ion Ratio Lower Upper
53 100
52 87.4 67.6 101.4
51 34.5 31.0 46.4





#13
Acetone
Concen: 42.118 ug/l
RT: 2.32 min Scan# 383
Delta R.T. -0.00 min
Lab File: VU029386.D
Acq: 08 Feb 2019 19:58

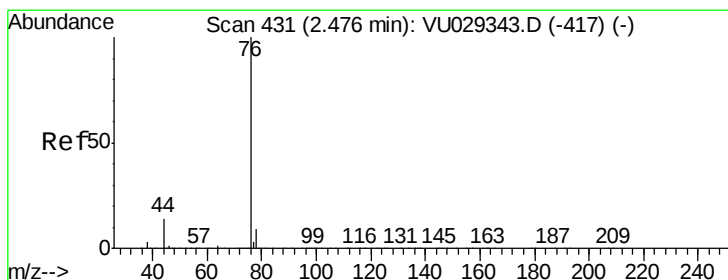
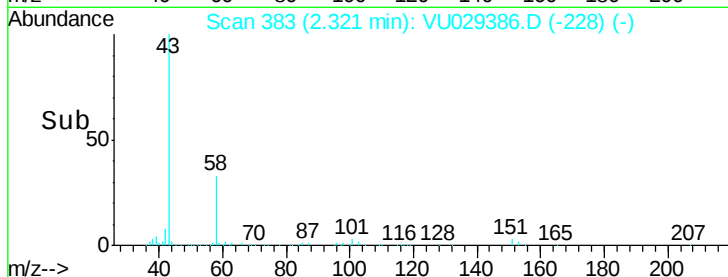
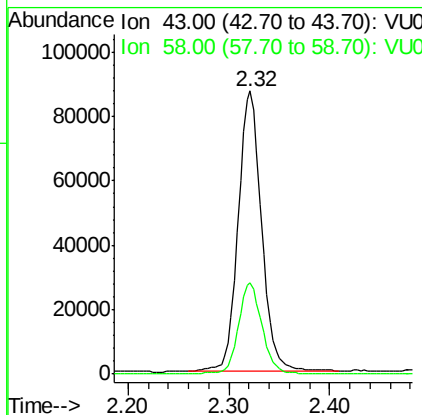
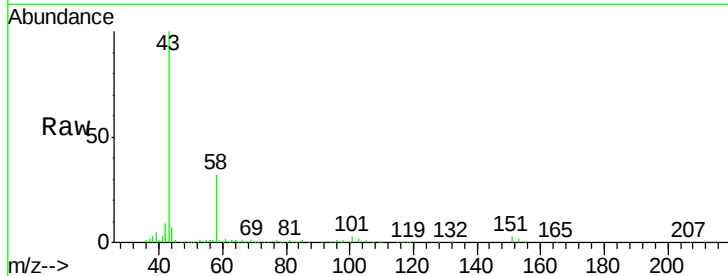
Instrument :
MSVOA_U
ClientSampleId :
VSTDCCC010EC

Tot Ion: 43 Resp: 140192
Ion Ratio Lower Upper
43 100
58 32.6 19.2 28.8#

Manual Integrations
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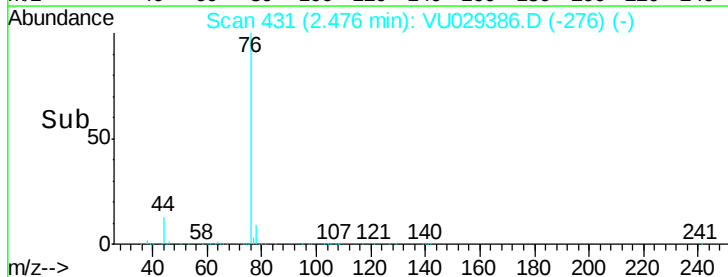
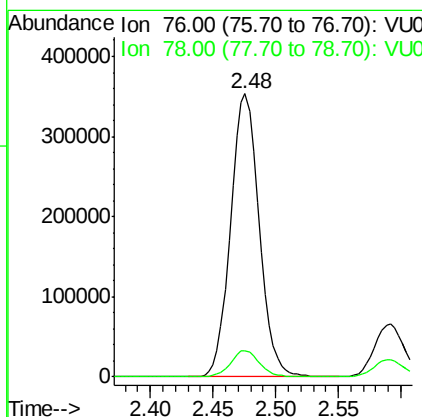
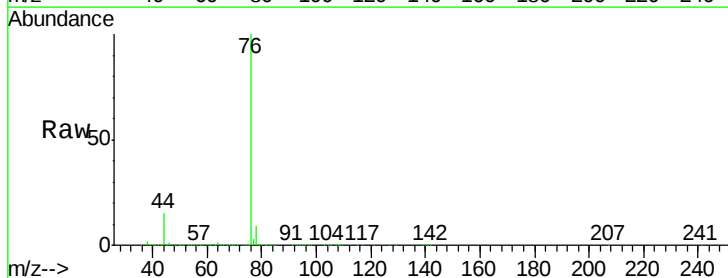
MMDadoda

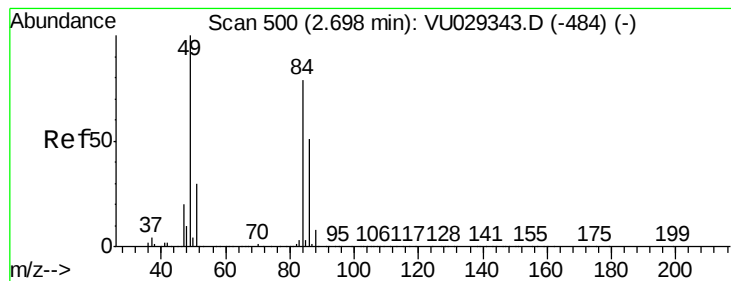
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#14
Carbon Disulfide
Concen: 10.286 ug/l
RT: 2.48 min Scan# 431
Delta R.T. -0.00 min
Lab File: VU029386.D
Acq: 08 Feb 2019 19:58

Tgt Ion: 76 Resp: 559648
Ion Ratio Lower Upper
76 100
78 9.3 7.1 10.7





#15

Methylene Chloride

Concen: 10.044 ug/l

RT: 2.70 min Scan# 500

Delta R.T. -0.00 min

Lab File: VU029386.D

Acq: 08 Feb 2019 19:58

Instrument :

MSVOA_U

ClientSampleId :

VSTDCCC010EC

Tot Ion: 84 Resp: 187672

Ion Ratio Lower Upper

84 100

49 114.2 127.0 190.6#

51 35.7 0.0 93.4

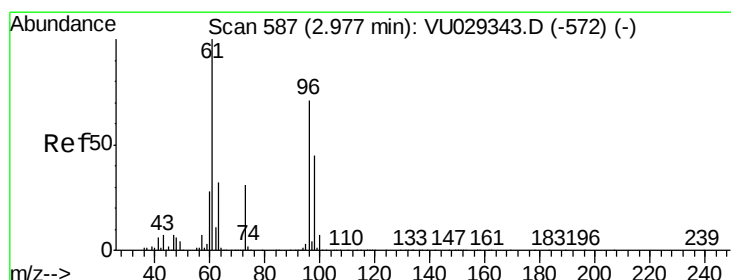
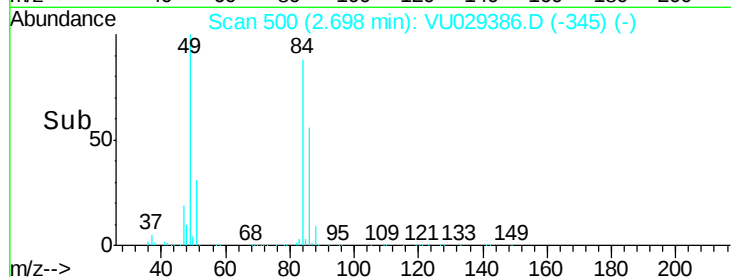
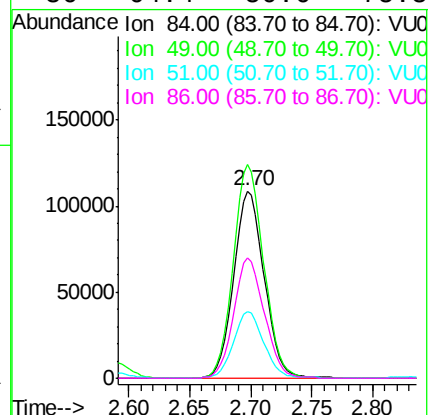
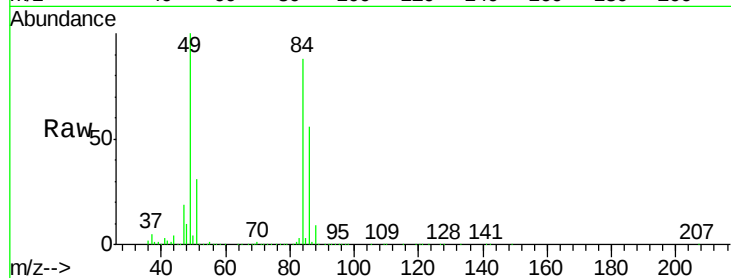
86 64.4 50.6 75.8

Manual Integrations

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#16

trans-1,2-Dichloroethene

Concen: 11.096 ug/l

RT: 2.98 min Scan# 587

Delta R.T. -0.00 min

Lab File: VU029386.D

Acq: 08 Feb 2019 19:58

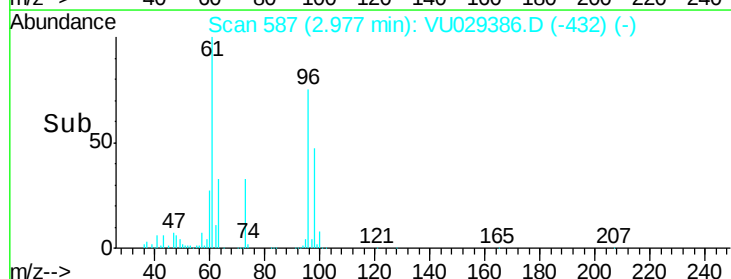
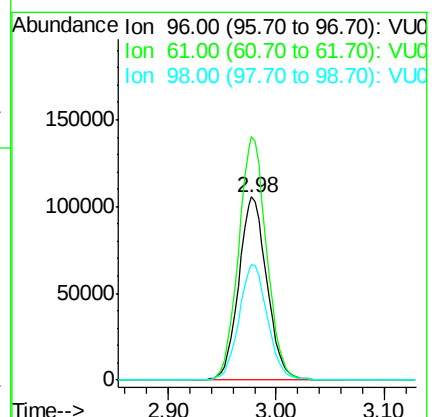
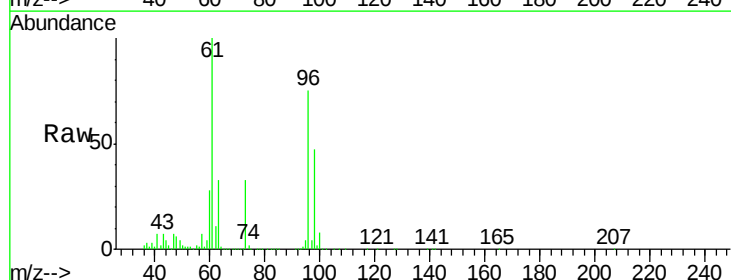
Tgt Ion: 96 Resp: 191207

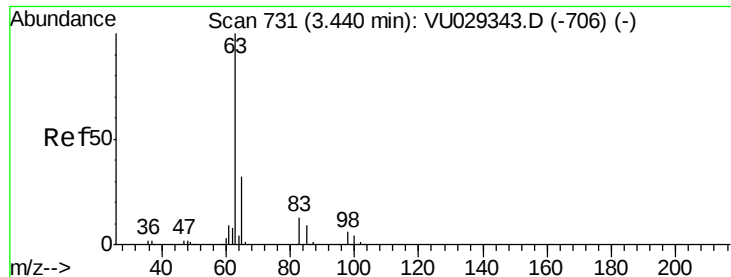
Ion Ratio Lower Upper

96 100

61 133.2 140.6 210.8#

98 63.0 49.3 73.9





#17

1,1-Dichloroethane

Concen: 12.330 ug/l

RT: 3.44 min Scan# 731

Delta R.T. -0.00 min

Lab File: VU029386.D

Acq: 08 Feb 2019 19:58

Instrument :

MSVOA_U

ClientSampleId :

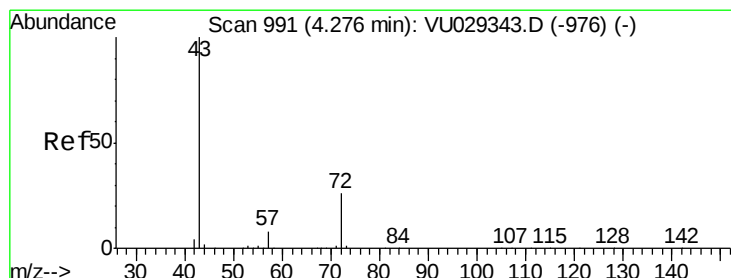
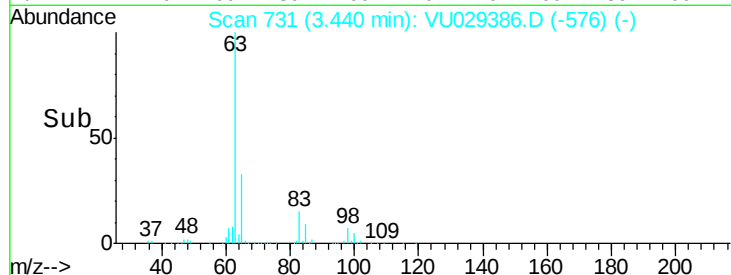
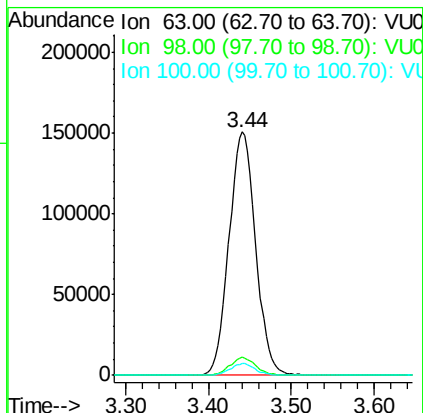
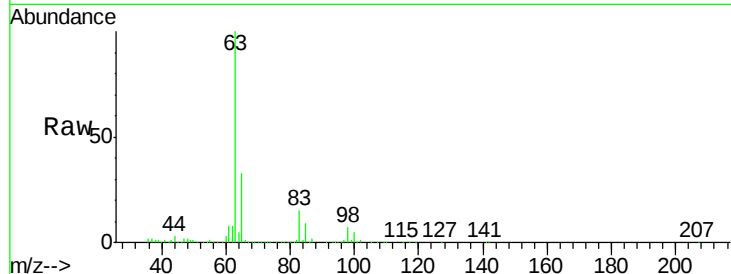
VSTDCCC010EC

Tot Ion	Ratio	Resp	Lower	Upper
63	100			
98	7.3	2.9	8.8	
100	4.8	1.7	5.1	

Manual Integrations
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#18

2-Butanone

Concen: 48.006 ug/l

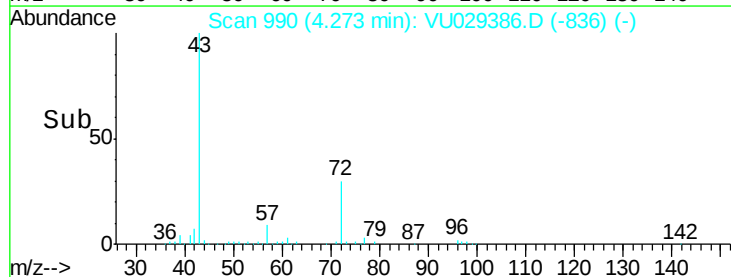
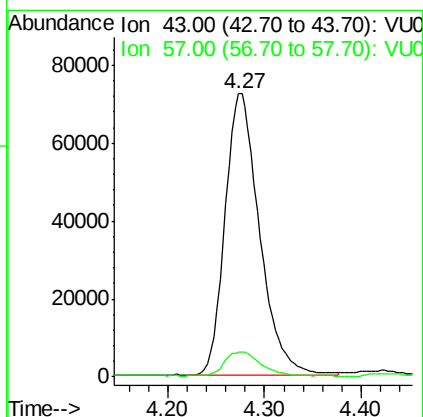
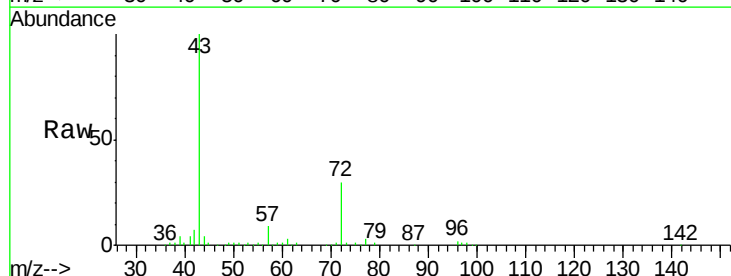
RT: 4.27 min Scan# 990

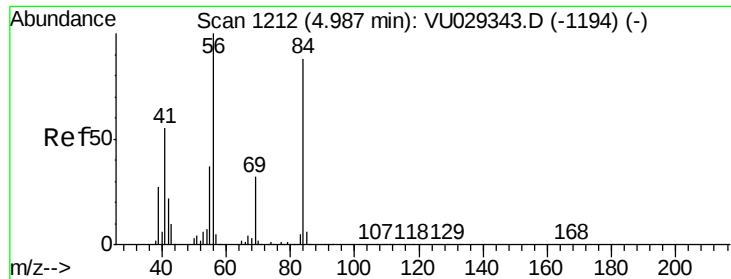
Delta R.T. -0.00 min

Lab File: VU029386.D

Acq: 08 Feb 2019 19:58

Tgt Ion	Ratio	Resp	Lower	Upper
43	100			
57	8.5	0.0	15.8	





#19
Cyclohexane
Concen: 7.726 ug/l
RT: 4.99 min Scan# 1212
Delta R.T. -0.00 min
Lab File: VU029386.D
Acq: 08 Feb 2019 19:58

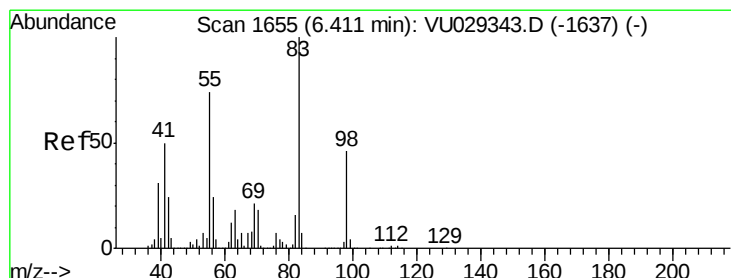
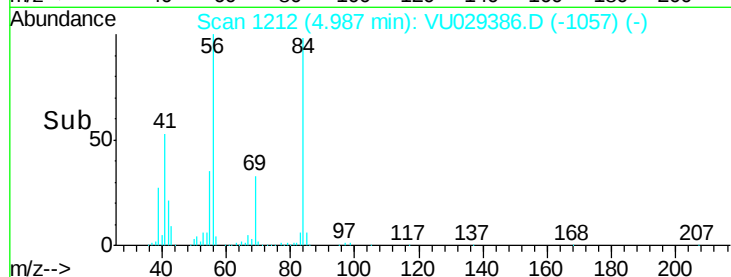
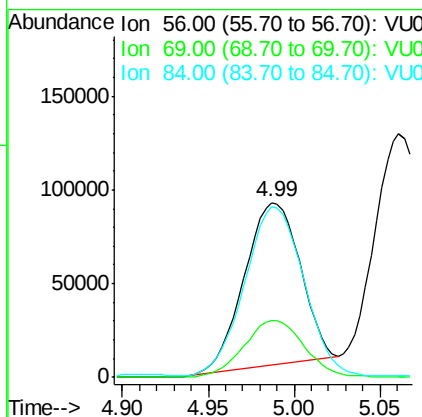
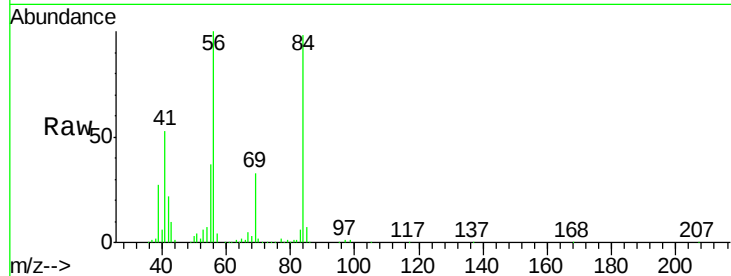
Instrument :
MSVOA_U
ClientSampleId :
VSTDCCC010EC

Tot Ion	Ratio	Lower	Upper
56	100		
69	38.0	26.8	40.2
84	110.7	71.5	107.3

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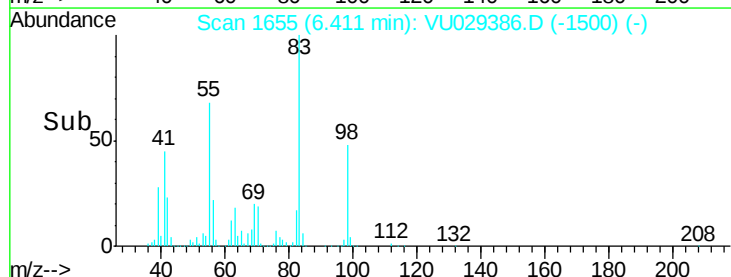
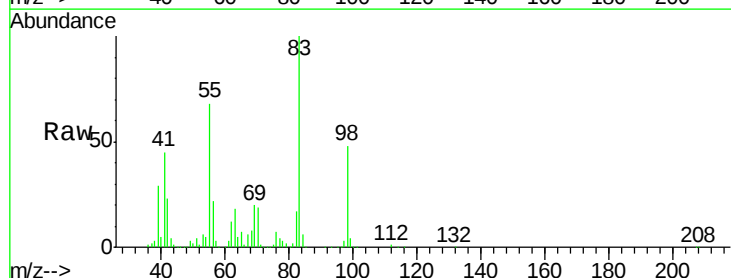
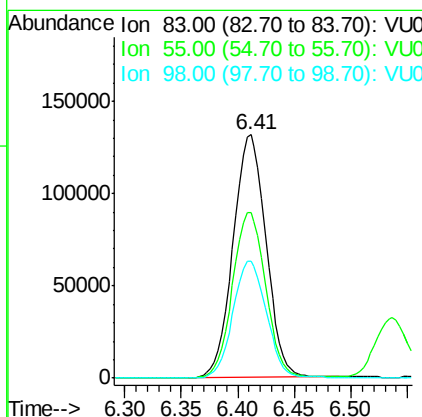
MMDadoda

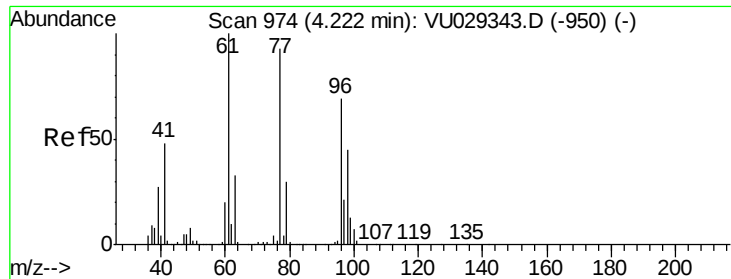
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#20
Methylcyclohexane
Concen: 10.038 ug/l
RT: 6.41 min Scan# 1655
Delta R.T. -0.00 min
Lab File: VU029386.D
Acq: 08 Feb 2019 19:58

Tgt Ion	Ratio	Lower	Upper
83	100		
55	67.6	72.4	108.6
98	48.2	36.6	54.8





#21

2,2-Dichloropropane

Concen: 9.254 ug/l

RT: 4.22 min Scan# 974

Delta R.T. -0.00 min

Lab File: VU029386.D

Acq: 08 Feb 2019 19:58

Instrument :

MSVOA_U

ClientSampleId :

VSTDCCC010EC

Tot Ion: 77 Resp: 233897

Ion Ratio Lower Upper

77 100

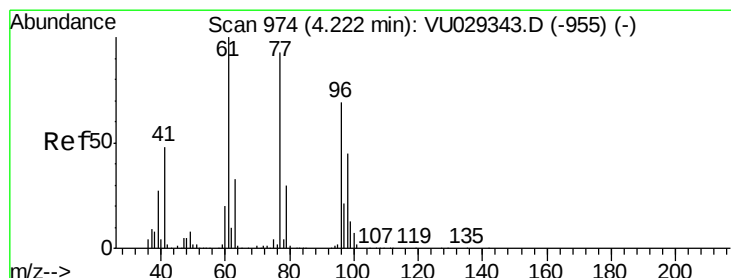
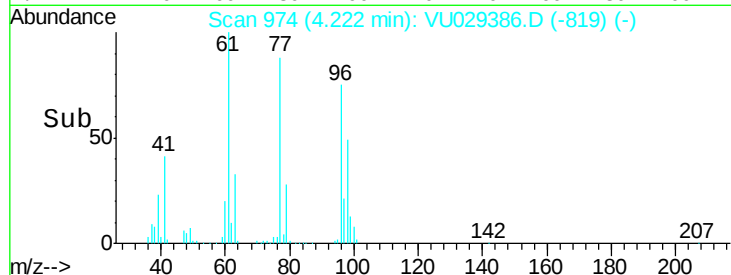
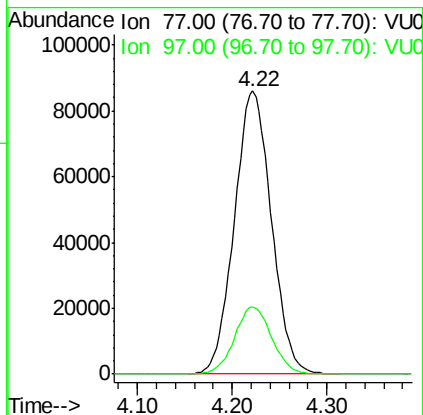
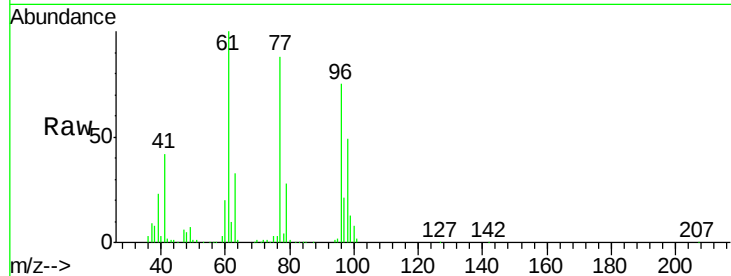
97 23.8 15.6 23.4#

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#22

cis-1,2-Dichloroethene

Concen: 11.098 ug/l

RT: 4.22 min Scan# 974

Delta R.T. -0.00 min

Lab File: VU029386.D

Acq: 08 Feb 2019 19:58

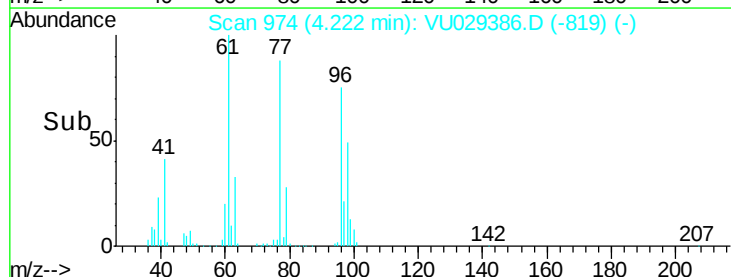
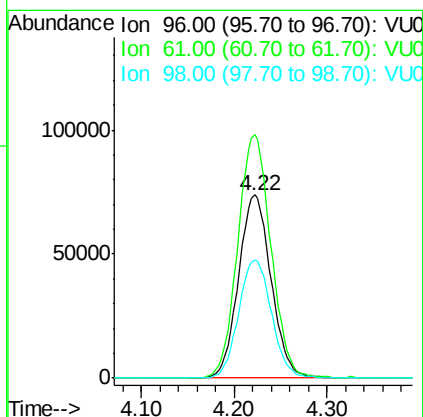
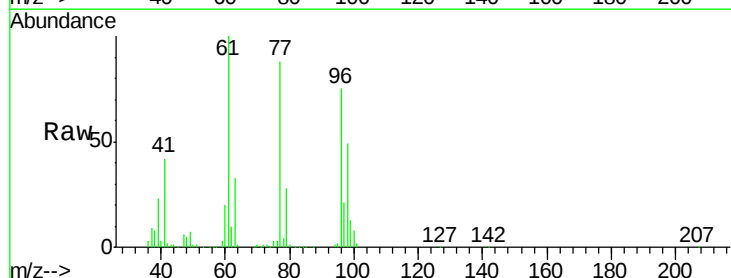
Tgt Ion: 96 Resp: 180160

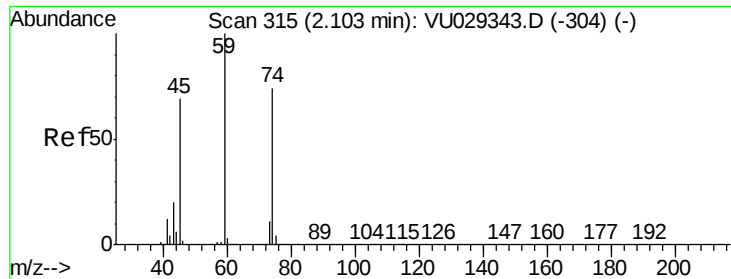
Ion Ratio Lower Upper

96 100

61 135.1 0.0 460.0

98 65.1 32.6 97.7





#23
Diethyl Ether
Concen: 10.212 ug/l
RT: 2.10 min Scan# 315
Delta R.T. -0.00 min
Lab File: VU029386.D
Acq: 08 Feb 2019 19:58

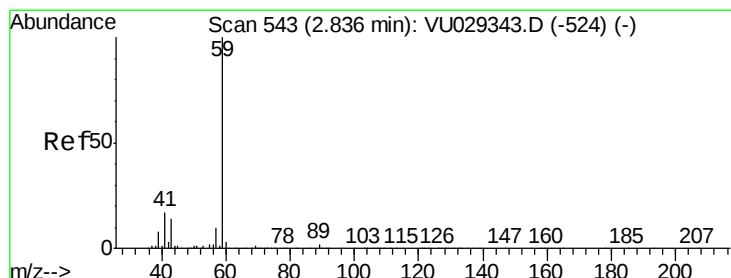
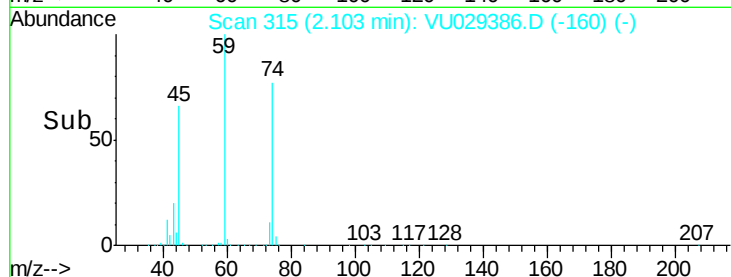
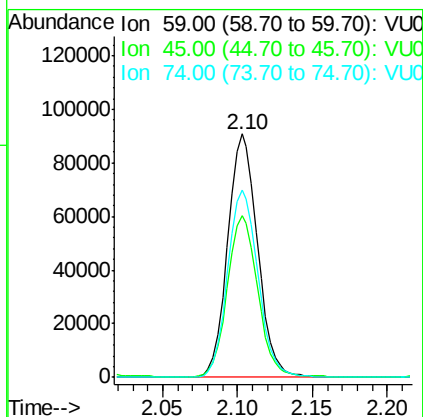
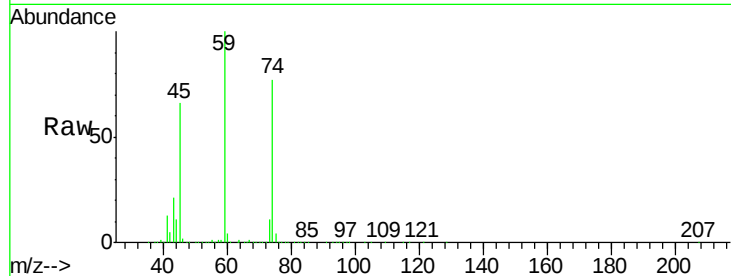
Instrument :
MSVOA_U
ClientSampleId :
VSTDCCC010EC

Tot Ion	Ion	Ratio	Resp	Lower	Upper
59	100		126361		
45	67.2	64.2	96.4		
74	78.8	55.3	82.9		

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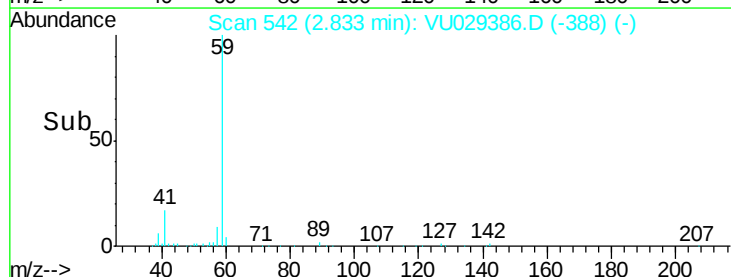
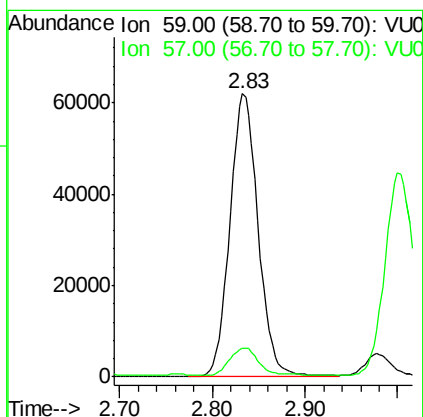
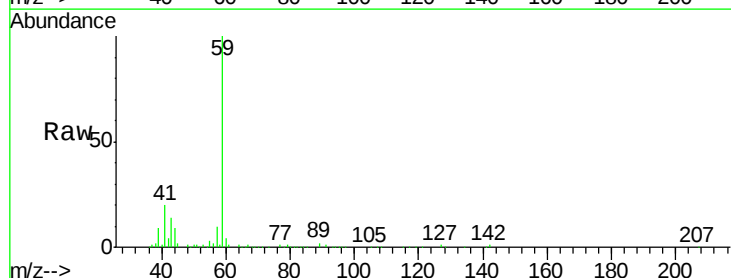
MMDadoda

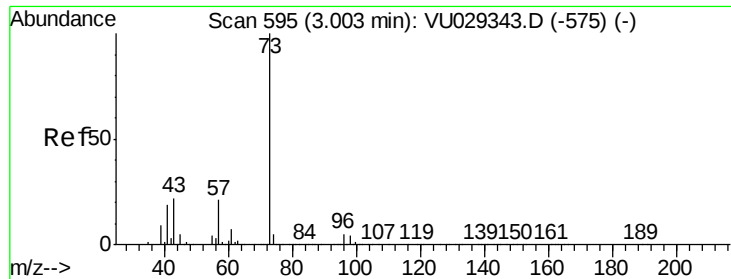
2/18/2019 12:16:07 PM



#24
tert-Butyl Alcohol
Concen: 102.087 ug/l
RT: 2.83 min Scan# 542
Delta R.T. -0.00 min
Lab File: VU029386.D
Acq: 08 Feb 2019 19:58

Tgt Ion	Ion	Ratio	Resp	Lower	Upper
59	100		131280		
57	9.8	8.8	13.2		





#25

Methyl tert-Butyl Ether
 Concen: 10.602 ug/l
 RT: 3.00 min Scan# 595
 Delta R.T. -0.00 min
 Lab File: VU029386.D
 Acq: 08 Feb 2019 19:58

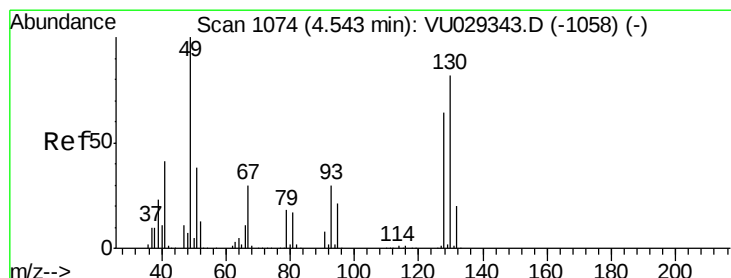
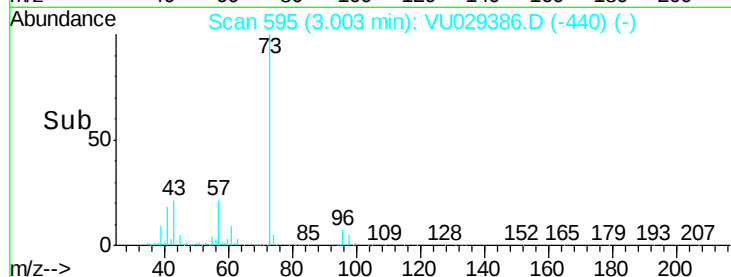
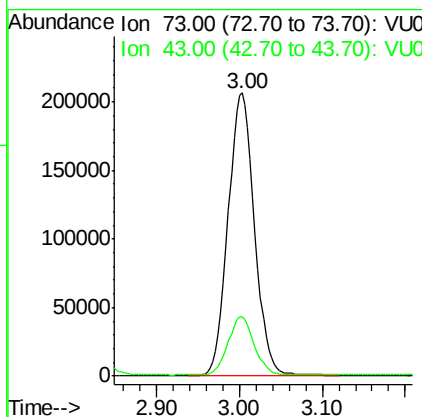
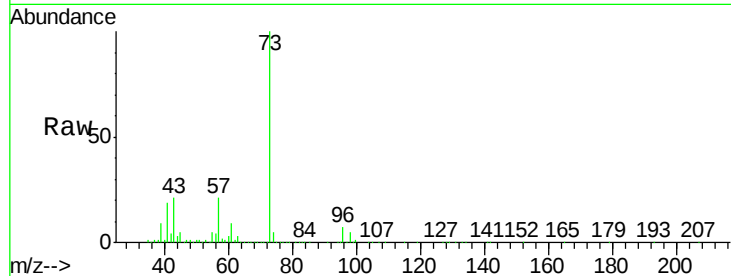
Instrument :
 MSVOA_U
 ClientSampleId :
 VSTDCCC010EC

Tot Ion	Ratio	Lower	Upper
73	100		
43	20.2	22.1	33.1#

Manual Integrations
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MMDadoda

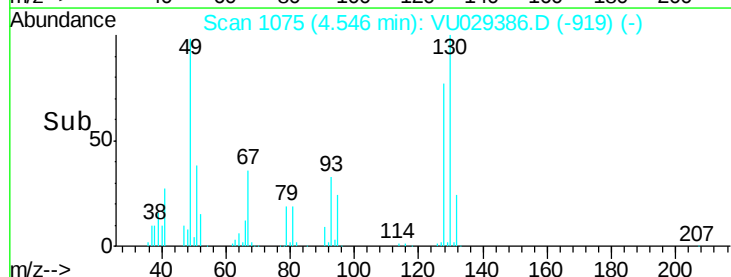
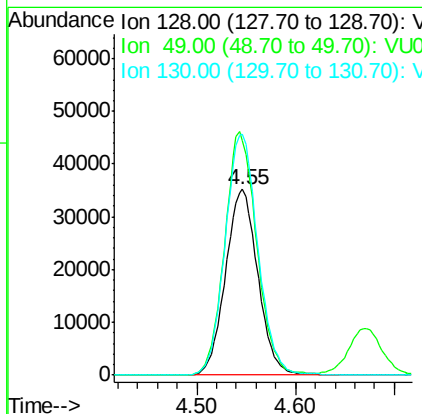
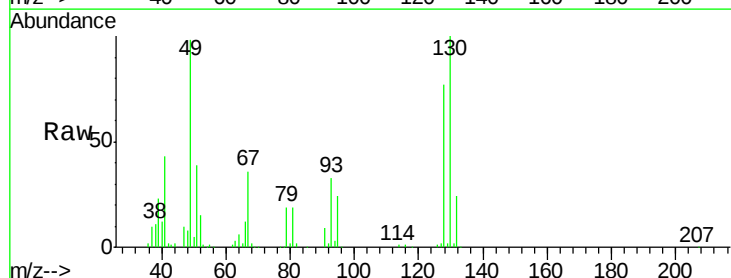
2/18/2019 12:16:07 PM

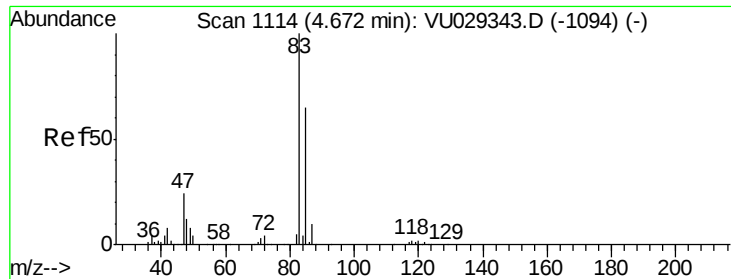


#26

Bromochloromethane
 Concen: 11.236 ug/l
 RT: 4.55 min Scan# 1075
 Delta R.T. 0.00 min
 Lab File: VU029386.D
 Acq: 08 Feb 2019 19:58

Tgt Ion	Ratio	Lower	Upper
128	100		
49	130.2	0.0	401.6
130	131.4	108.0	162.0





#27
Chloroform
Concen: 10.806 ug/l
RT: 4.67 min Scan# 1113
Delta R.T. -0.00 min
Lab File: VU029386.D
Acq: 08 Feb 2019 19:58

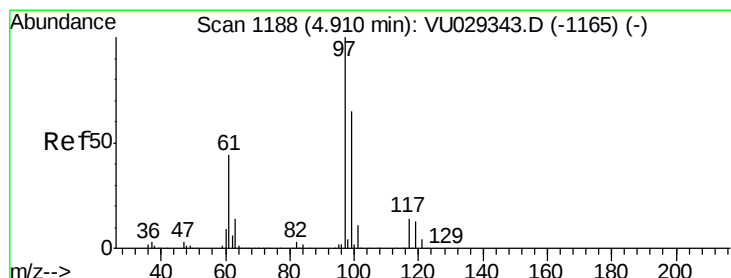
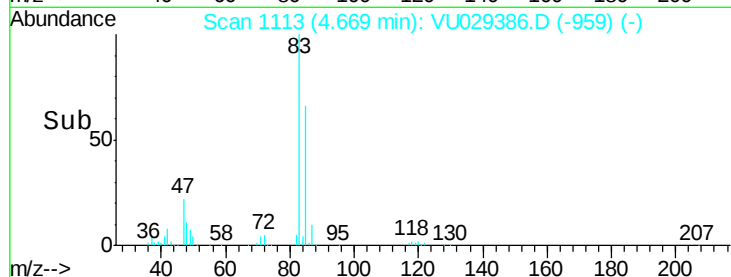
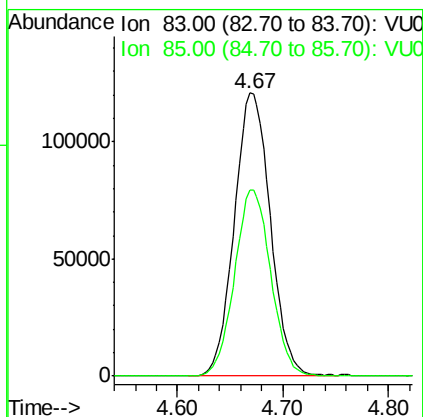
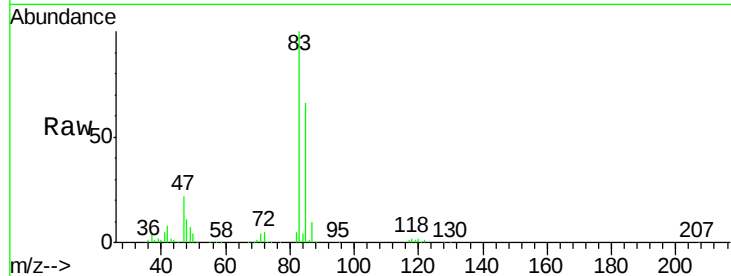
Instrument :
MSVOA_U
ClientSampleId :
VSTDCCC010EC

Tot Ion	83	Resp	286965
Ion Ratio	100	Lower	Upper
85	65.6	0.0	126.6

Manual Integrations
APPROVED

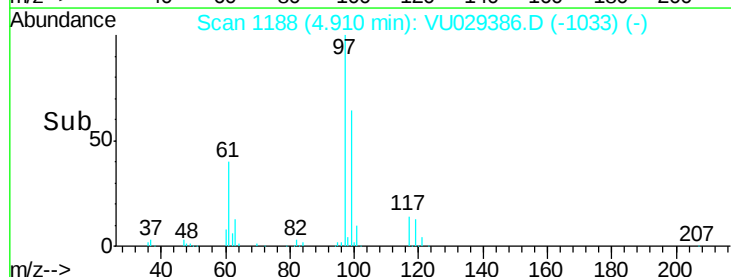
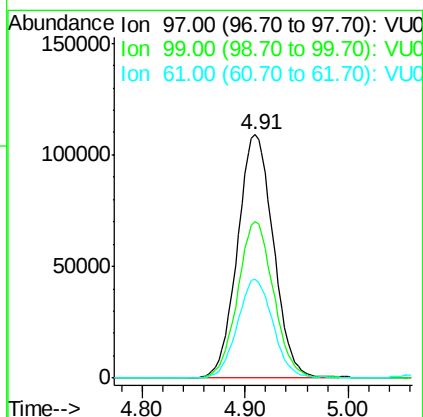
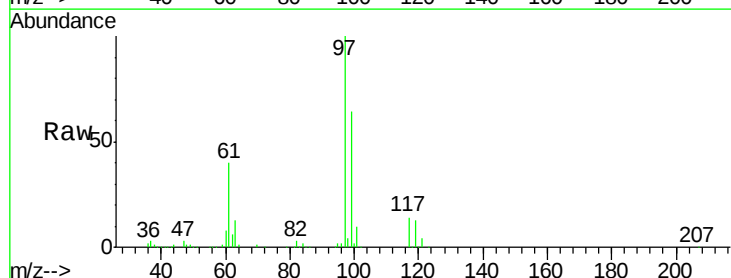
MMDadoda

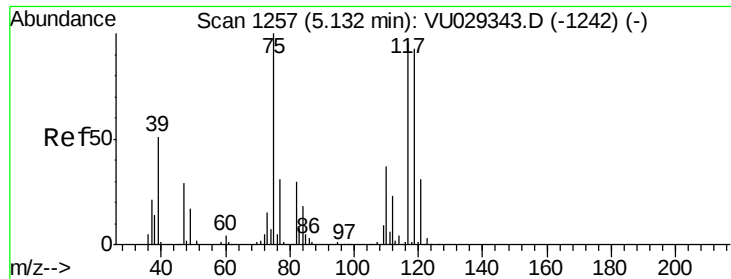
2/18/2019 12:16:07 PM



#28
1,1,1-Trichloroethane
Concen: 10.739 ug/l
RT: 4.91 min Scan# 1188
Delta R.T. -0.00 min
Lab File: VU029386.D
Acq: 08 Feb 2019 19:58

Tgt Ion	97	Resp	264343
Ion Ratio	100	Lower	Upper
99	64.4	32.4	97.2
61	40.0	24.4	73.2





#29
 1,1-Dichloropropene
 Concen: 10.344 ug/l
 RT: 5.13 min Scan# 1257
 Delta R.T. -0.00 min
 Lab File: VU029386.D
 Acq: 08 Feb 2019 19:58

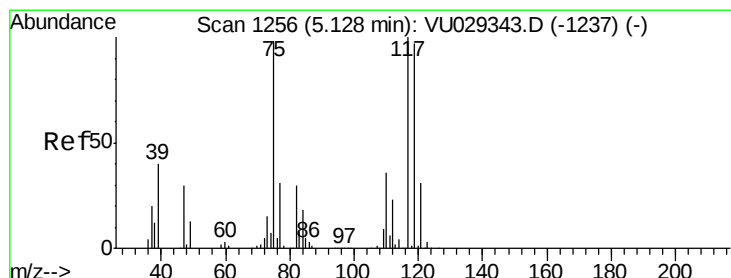
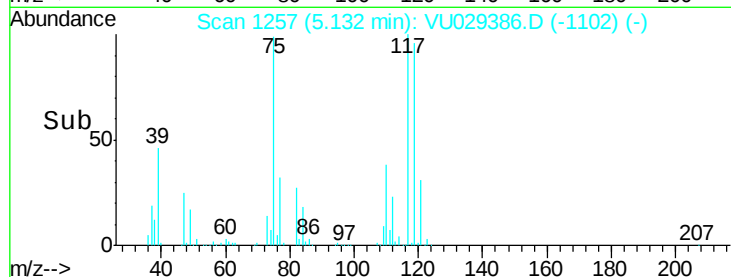
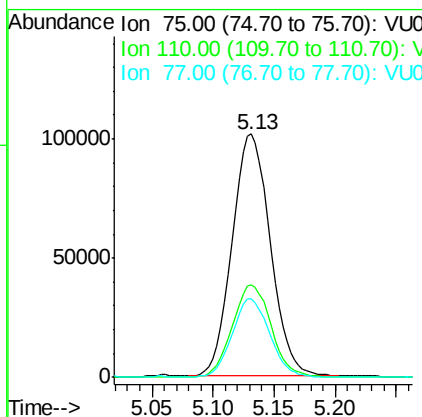
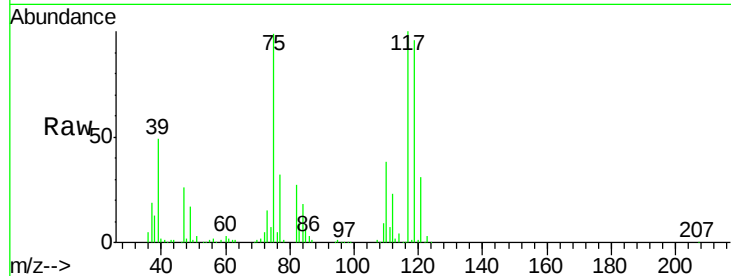
Instrument :
 MSVOA_U
 ClientSampleId :
 VSTDCCC010EC

Tot Ion	Ratio	Resp	Lower	Upper
75	100			
110	39.0	15.4	46.2	
77	31.5	24.1	36.1	

Manual Integrations
 APPROVED

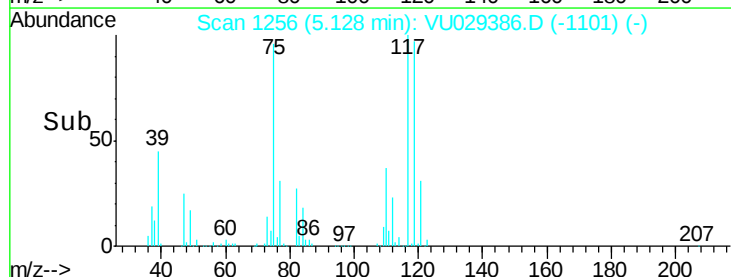
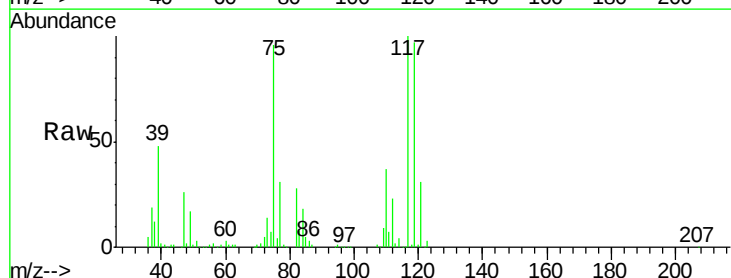
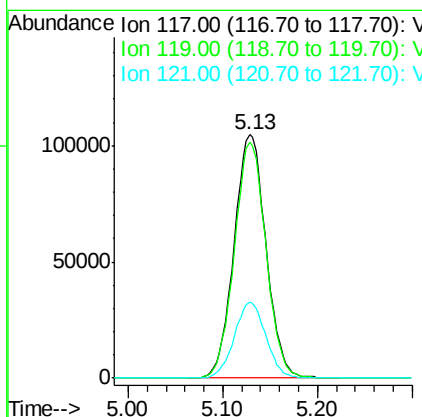
MMDadoda

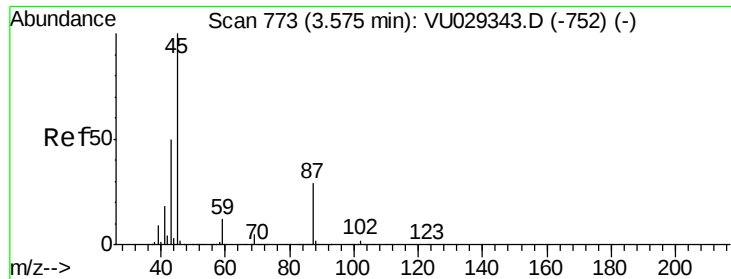
2/18/2019 12:16:07 PM



#30
 Carbon Tetrachloride
 Concen: 10.988 ug/l
 RT: 5.13 min Scan# 1256
 Delta R.T. -0.00 min
 Lab File: VU029386.D
 Acq: 08 Feb 2019 19:58

Tgt Ion	Ratio	Resp	Lower	Upper
117	100			
119	96.8	76.8	115.2	
121	31.3	24.4	36.6	





#31

Isopropyl Ether

Concen: 9.625 ug/l

RT: 3.58 min Scan# 773

Delta R.T. -0.00 min

Lab File: VU029386.D

Acq: 08 Feb 2019 19:58

Instrument :

MSVOA_U

ClientSampleId :

VSTDCCC010EC

Tot Ion: 45 Resp: 396602

Ion Ratio Lower Upper

45 100

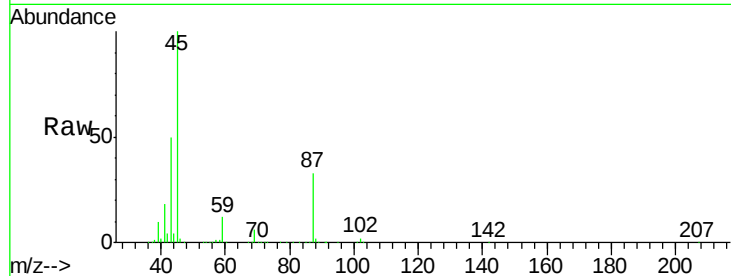
43 49.1 28.4 85.3

Manual Integrations

APPROVED

MMDadoda

2/18/2019 12:16:07 PM



Abundance Ion 45.00 (44.70 to 45.70): VU029343.D (-752) (-)

Ion 43.00 (42.70 to 43.70): VU029343.D (-752) (-)

3.58

150000

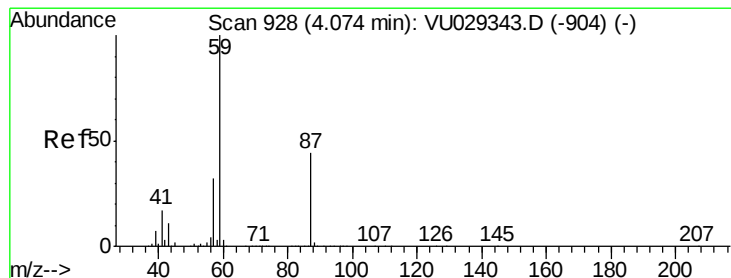
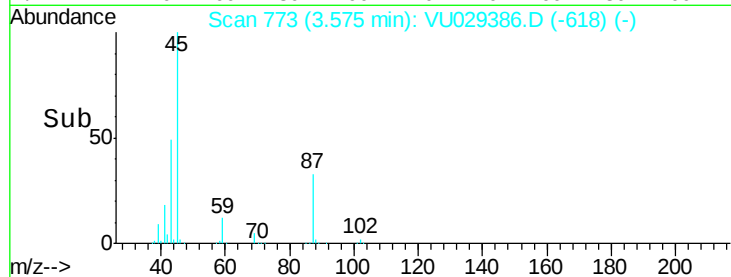
100000

50000

0

3.50 3.60 3.70

Time-->



#32

Ethyl-t-butyl ether

Concen: 9.842 ug/l

RT: 4.07 min Scan# 928

Delta R.T. -0.00 min

Lab File: VU029386.D

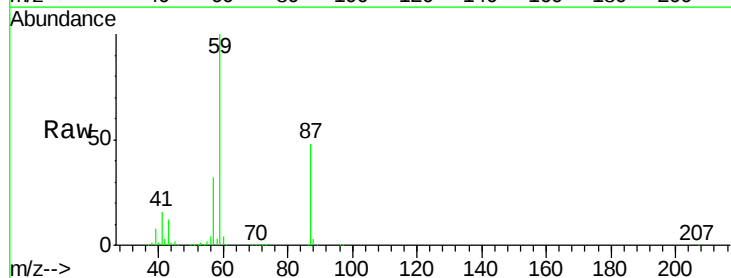
Acq: 08 Feb 2019 19:58

Tgt Ion: 59 Resp: 406373

Ion Ratio Lower Upper

59 100

87 47.2 31.1 46.7#



Abundance Ion 59.00 (58.70 to 59.70): VU029343.D (-904) (-)

Ion 87.00 (86.70 to 87.70): VU029343.D (-904) (-)

4.07

150000

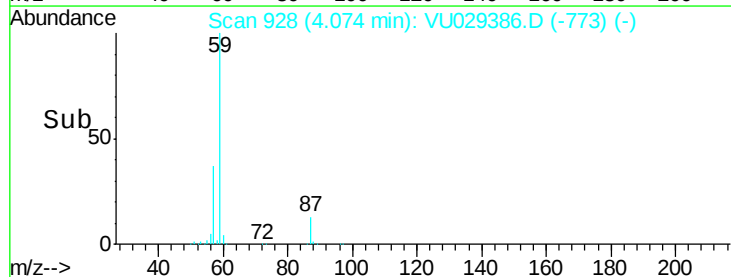
100000

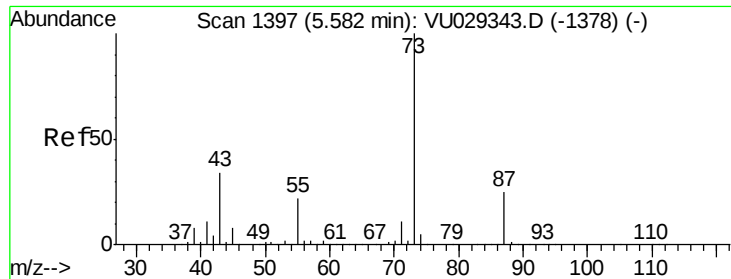
50000

0

4.00 4.10 4.20

Time-->





#33
Tert-Amvl methvl ether
Concen: 10.403 ug/l
RT: 5.58 min Scan# 1397
Delta R.T. -0.00 min
Lab File: VU029386.D
Acq: 08 Feb 2019 19:58

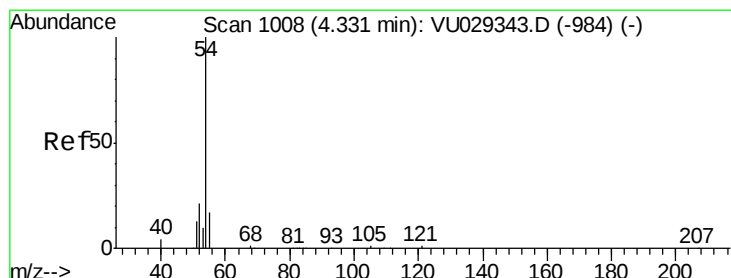
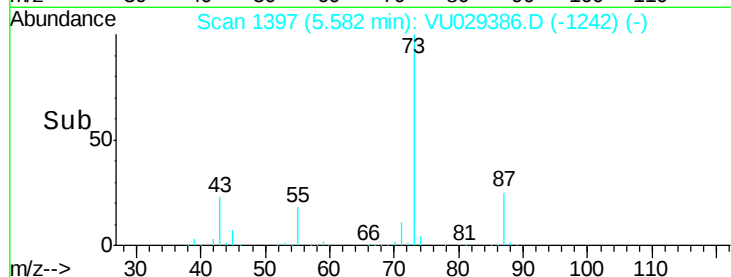
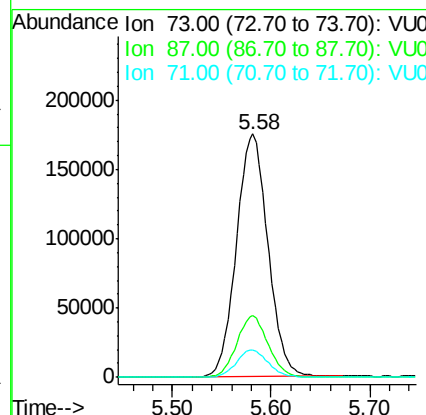
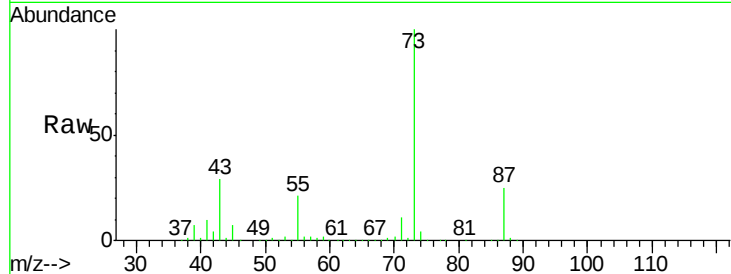
Instrument :
MSVOA_U
ClientSampleId :
VSTDCCC010EC

Tot Ion	Ratio	Lower	Upper
73	100		
87	25.2	19.4	29.0
71	11.2	9.0	13.4

Manual Integrations
APPROVED

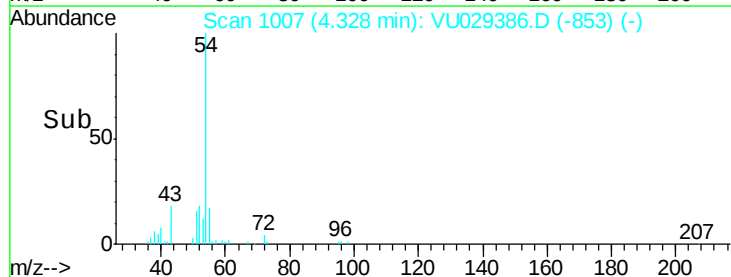
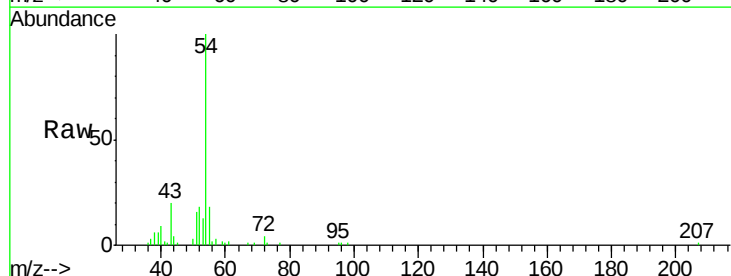
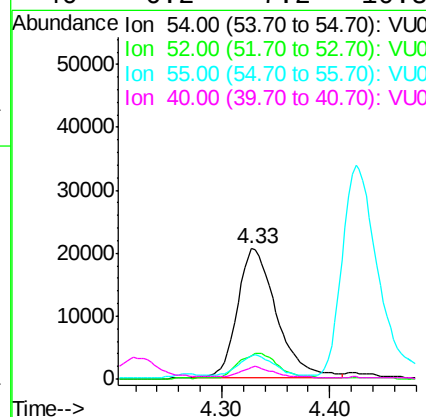
MMDadoda

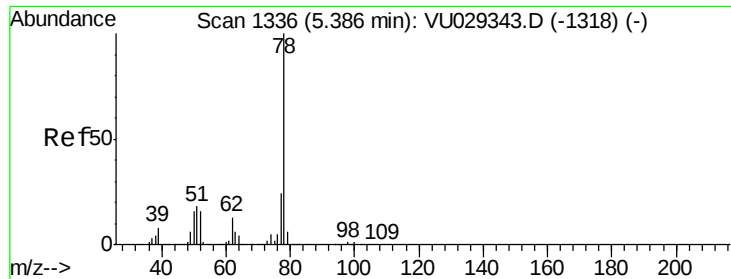
2/18/2019 12:16:07 PM



#34
Propionitrile
Concen: 52.688 ug/l
RT: 4.33 min Scan# 1007
Delta R.T. -0.00 min
Lab File: VU029386.D
Acq: 08 Feb 2019 19:58

Tgt Ion	Ratio	Lower	Upper
54	100		
52	19.5	18.9	28.3
55	14.5	15.1	22.7#
40	6.2	7.2	10.8#





#35

Benzene

Concen: 10.524 ug/l

RT: 5.39 min Scan# 1336

Delta R.T. -0.00 min

Lab File: VU029386.D

Acq: 08 Feb 2019 19:58

Instrument :

MSVOA_U

ClientSampleId :

VSTDCCC010EC

Tot Ion: 78 Resp: 621851

Ion Ratio Lower Upper

78 100

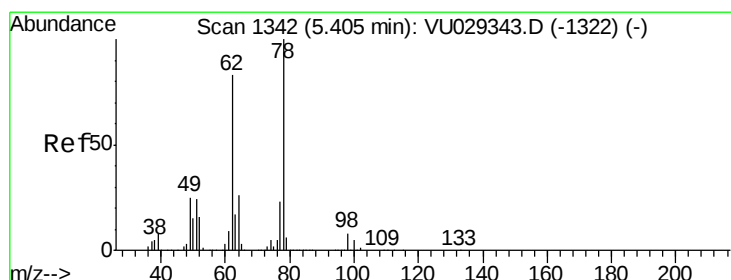
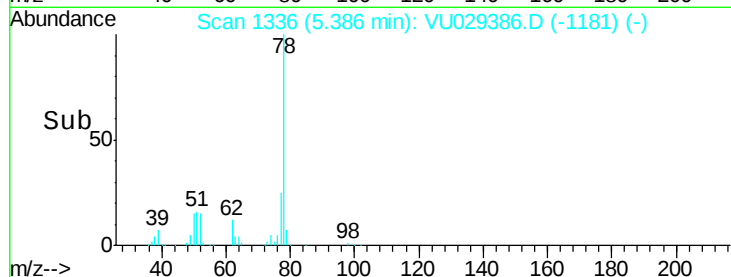
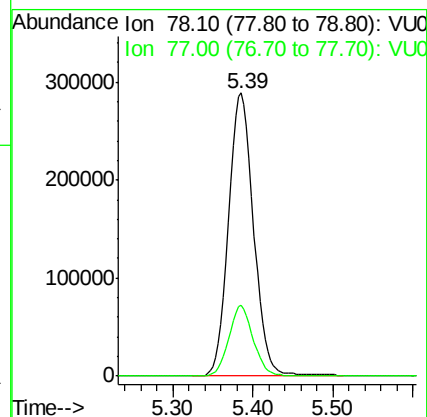
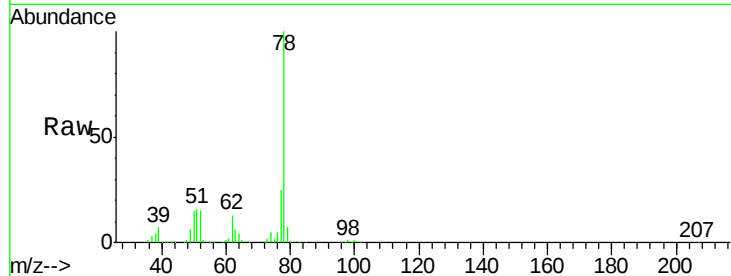
77 24.9 19.8 29.8

Manual Integrations

APPROVED

MMDadoda

2/18/2019 12:16:07 PM



#36

1,2-Dichloroethane

Concen: 9.963 ug/l

RT: 5.40 min Scan# 1341

Delta R.T. -0.00 min

Lab File: VU029386.D

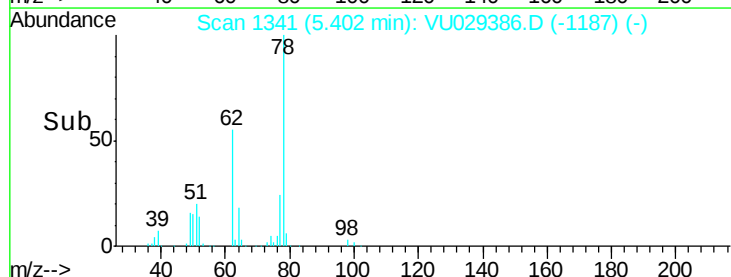
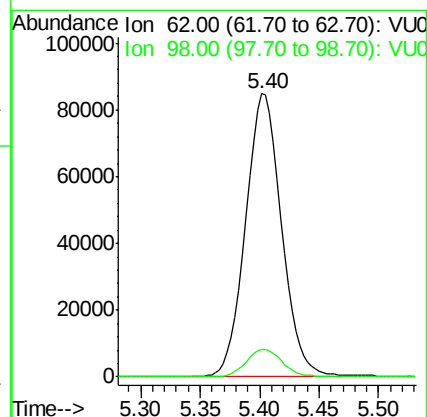
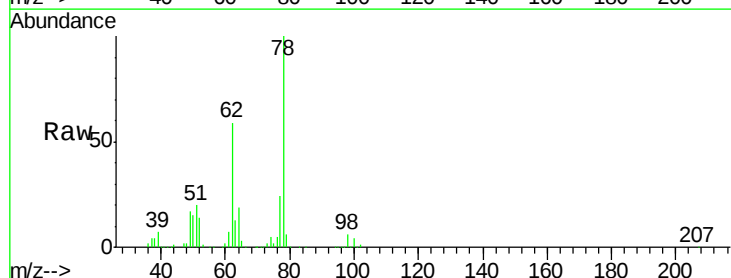
Acq: 08 Feb 2019 19:58

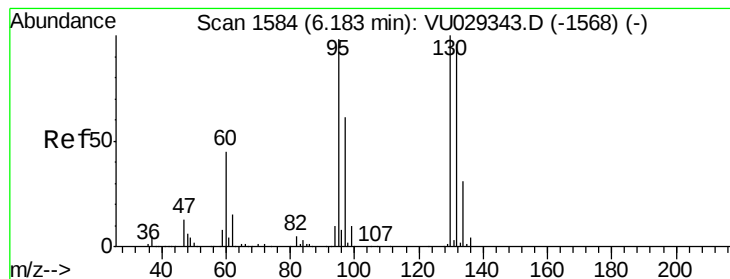
Tgt Ion: 62 Resp: 178060

Ion Ratio Lower Upper

62 100

98 9.8 4.9 7.3#





#37

Trichloroethene

Concen: 11.638 ug/l

RT: 6.18 min Scan# 1584

Delta R.T. -0.00 min

Lab File: VU029386.D

Acq: 08 Feb 2019 19:58

Instrument :

MSVOA_U

ClientSampleId :

VSTDCCC010EC

Tot Ion:130 Resp: 197343

Ion Ratio Lower Upper

130 100

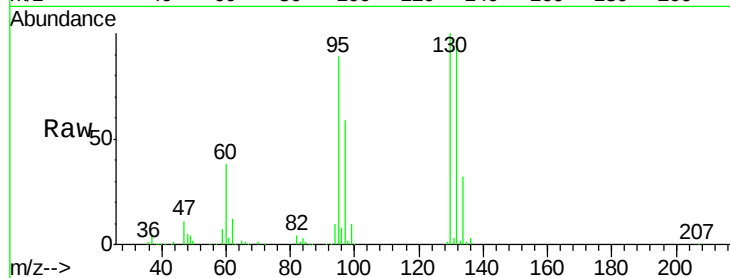
95 89.4 85.4 128.0

Manual Integrations

APPROVED

MMDadoda

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Abundance Ion 129.90 (129.60 to 130.60): V

Ion 94.90 (94.60 to 95.60): VU0

120000

100000

80000

60000

40000

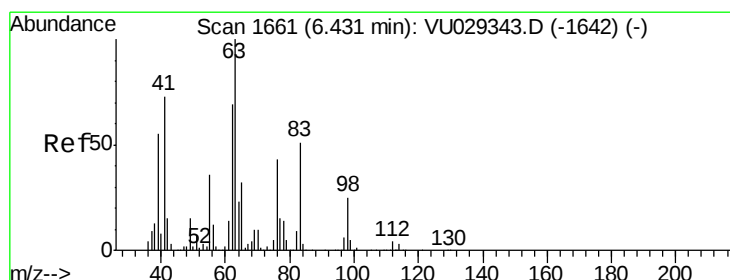
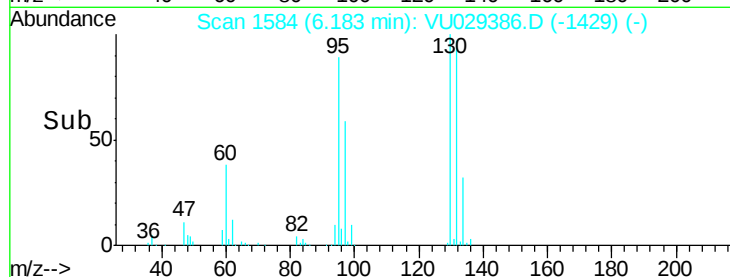
20000

0

6.18

6.10 6.20 6.30

Time-->



#38

1,2-Dichloropropane

Concen: 10.158 ug/l

RT: 6.43 min Scan# 1661

Delta R.T. -0.00 min

Lab File: VU029386.D

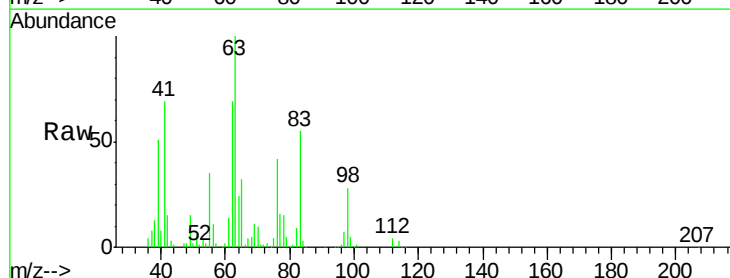
Acq: 08 Feb 2019 19:58

Tgt Ion: 63 Resp: 156141

Ion Ratio Lower Upper

63 100

65 31.8 25.5 38.3



Abundance Ion 63.00 (62.70 to 63.70): VU0

Ion 65.00 (64.70 to 65.70): VU0

80000

60000

40000

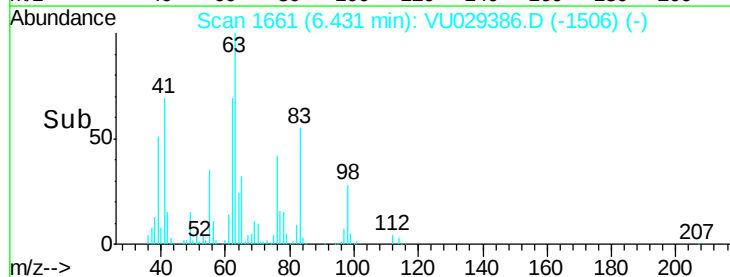
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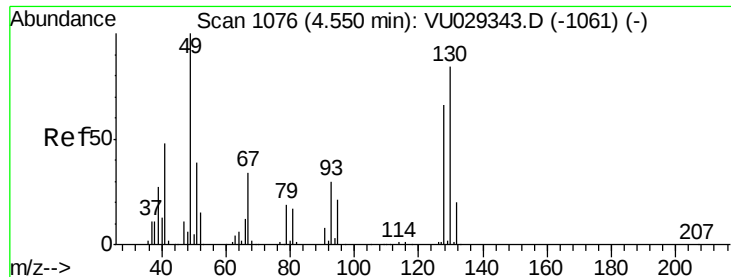
0

6.43

6.40 6.50

Time-->





#39
Methacrylonitrile
Concen: 9.247 ug/l
RT: 4.55 min Scan# 1075
Delta R.T. -0.00 min
Lab File: VU029386.D
Acq: 08 Feb 2019 19:58

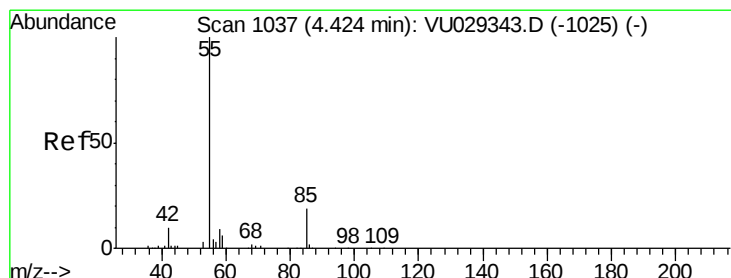
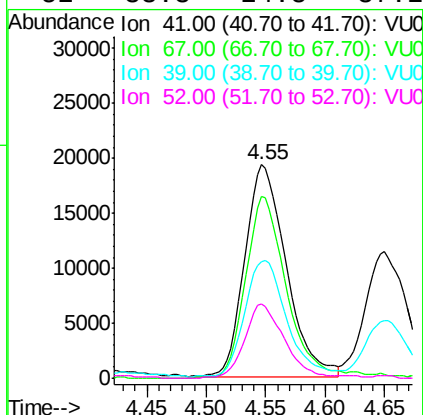
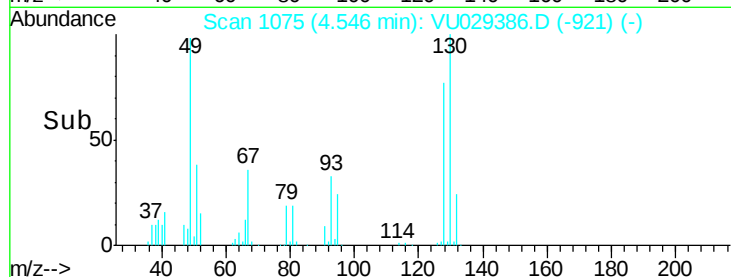
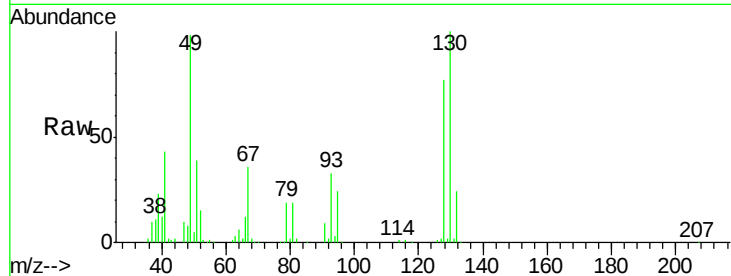
Instrument :
MSVOA_U
ClientSampleId :
VSTDCCC010EC

Tot Ion	41	Resp	46309
Ion	Ratio	Lower	Upper
41	100		
67	82.3	50.1	75.1#
39	54.7	47.9	71.9
52	33.3	24.8	37.2

Manual Integrations
APPROVED

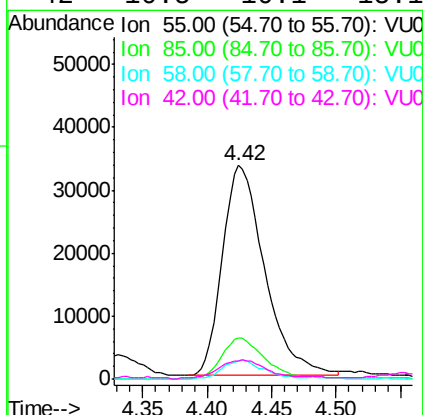
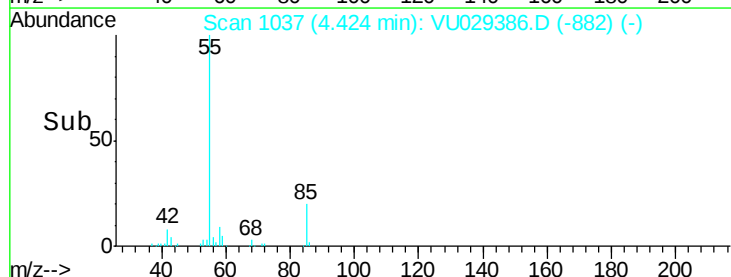
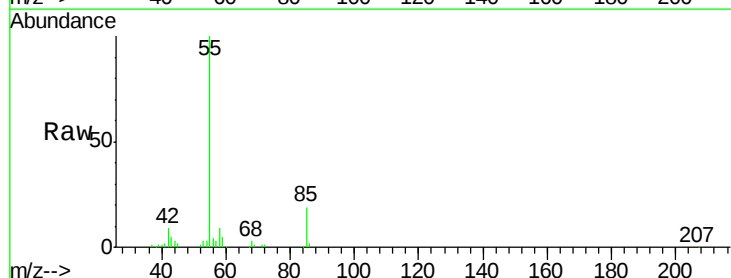
MMDadoda

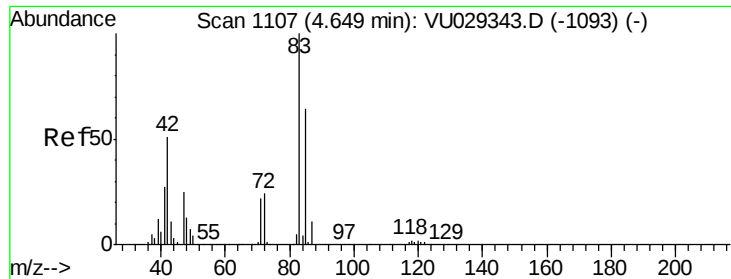
2/18/2019 12:16:07 PM



#40
Methyl acrylate
Concen: 10.043 ug/l
RT: 4.42 min Scan# 1037
Delta R.T. -0.00 min
Lab File: VU029386.D
Acq: 08 Feb 2019 19:58

Tgt Ion	55	Resp	75918
Ion	Ratio	Lower	Upper
55	100		
85	20.2	11.3	16.9#
58	8.8	6.2	9.4
42	10.5	10.1	15.1





#41
Tetrahydrofuran
Concen: 18.368 ug/l
RT: 4.65 min Scan# 1107
Delta R.T. -0.00 min
Lab File: VU029386.D
Acq: 08 Feb 2019 19:58

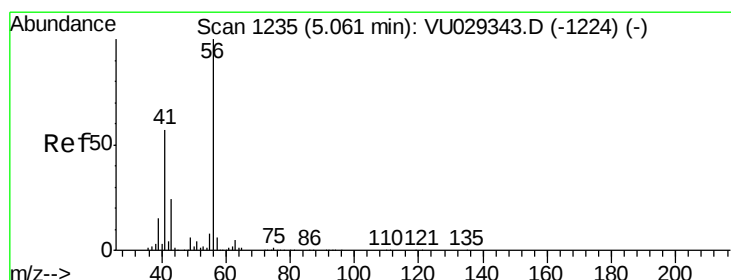
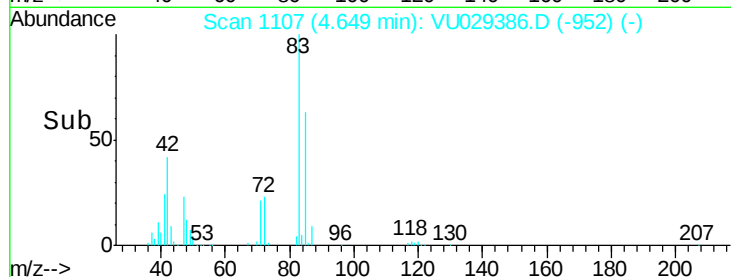
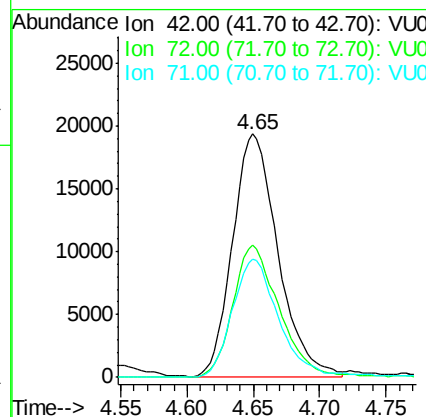
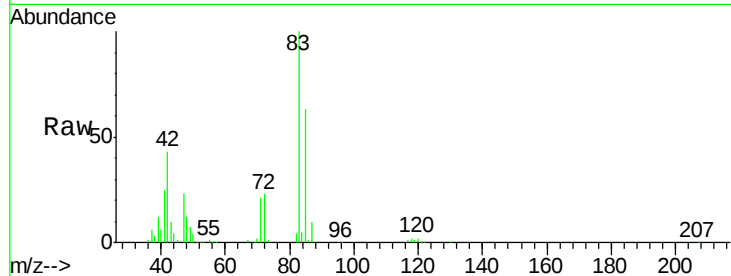
Instrument :
MSVOA_U
ClientSampleId :
VSTDCCC010EC

Tot Ion	Ratio	Lower	Upper
42	100		
72	54.7	33.1	49.7#
71	48.5	30.2	45.2#

Manual Integrations
APPROVED

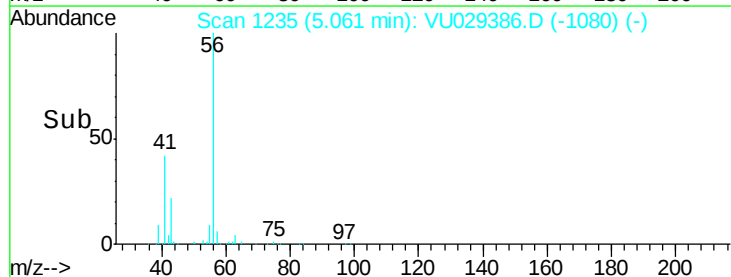
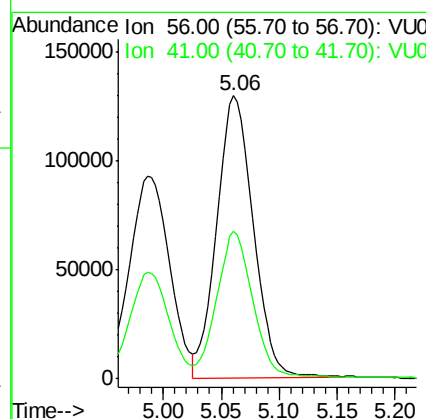
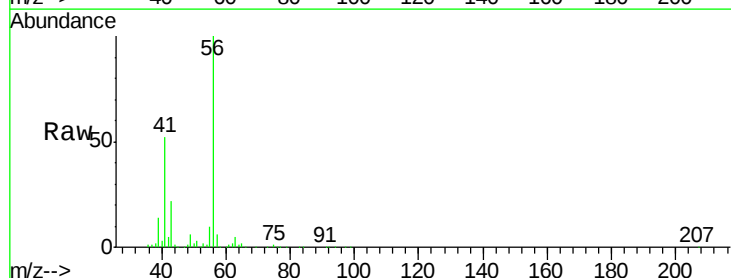
MMDadoda

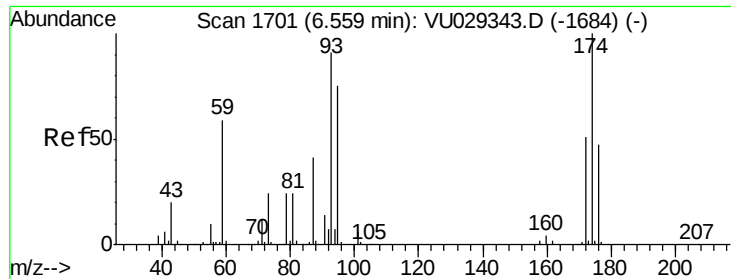
2/18/2019 12:16:07 PM



#42
1-Chlorobutane
Concen: 9.892 ug/l
RT: 5.06 min Scan# 1235
Delta R.T. -0.00 min
Lab File: VU029386.D
Acq: 08 Feb 2019 19:58

Tgt Ion	Ratio	Lower	Upper
56	100		
41	51.5	31.3	93.8





#43
Dibromomethane
Concen: 10.554 ug/l
RT: 6.56 min Scan# 1700
Delta R.T. -0.00 min
Lab File: VU029386.D
Acq: 08 Feb 2019 19:58

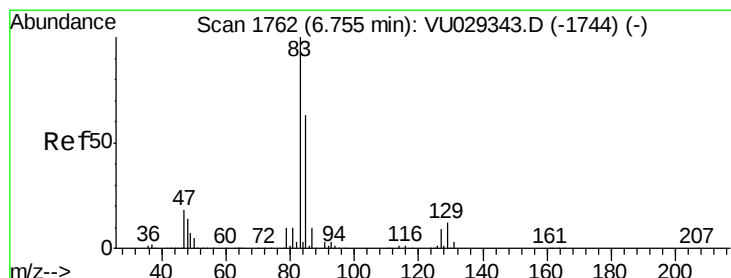
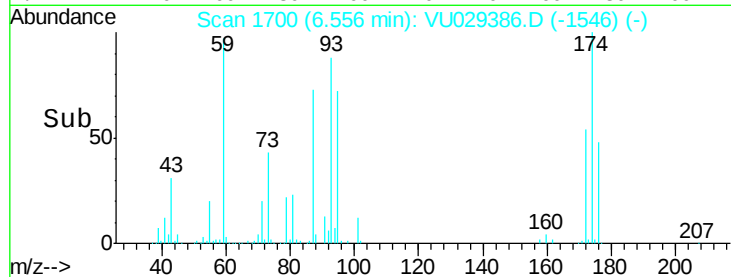
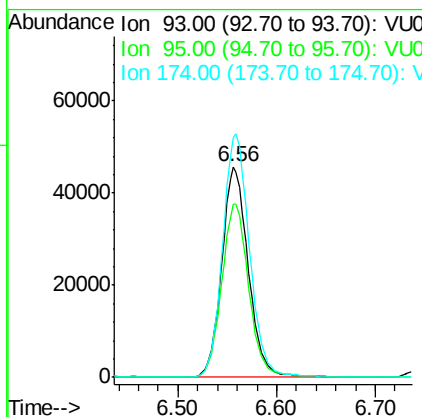
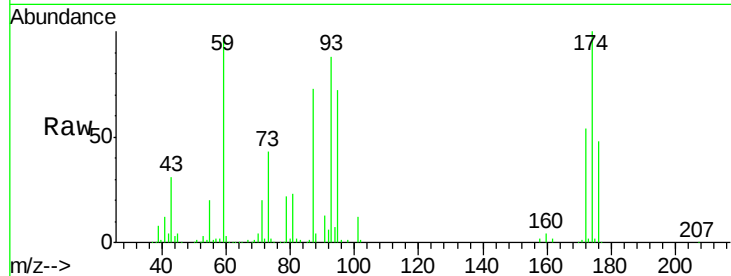
Instrument :
MSVOA_U
ClientSampleId :
VSTDCCC010EC

Tot Ion	Ratio	Lower	Upper
93	100		
95	83.8	68.2	102.2
174	116.7	77.6	116.4#

Manual Integrations
APPROVED

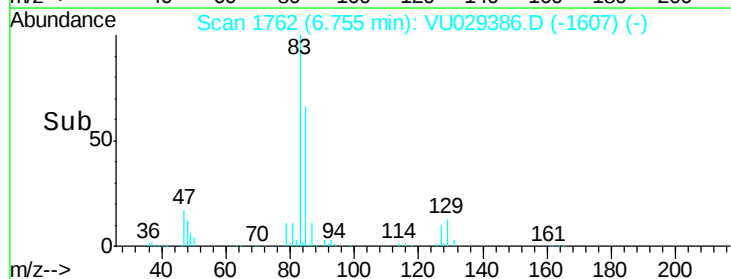
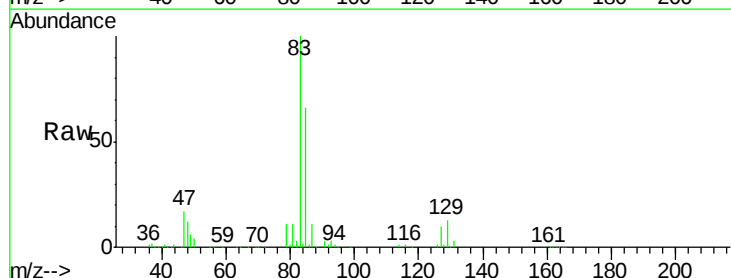
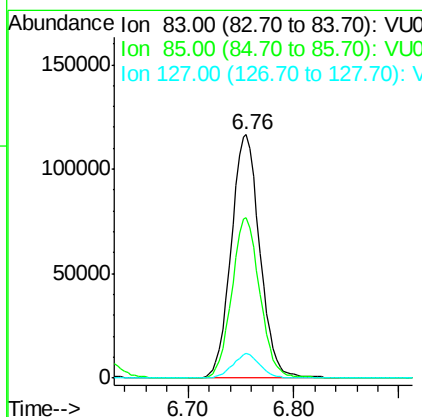
MMDadoda

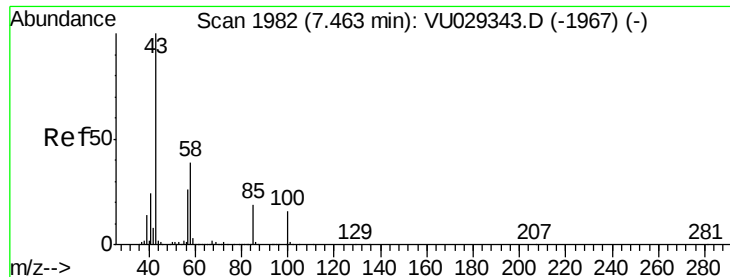
2/18/2019 12:16:07 PM



#44
Bromodichloromethane
Concen: 10.440 ug/l
RT: 6.76 min Scan# 1762
Delta R.T. -0.00 min
Lab File: VU029386.D
Acq: 08 Feb 2019 19:58

Tgt Ion	Ratio	Lower	Upper
83	100		
85	66.2	49.2	73.8
127	10.1	7.0	10.6





#45
4-Methyl-2-Pentanone
Concen: 47.697 ug/l
RT: 7.46 min Scan# 1982
Delta R.T. -0.00 min
Lab File: VU029386.D
Acq: 08 Feb 2019 19:58

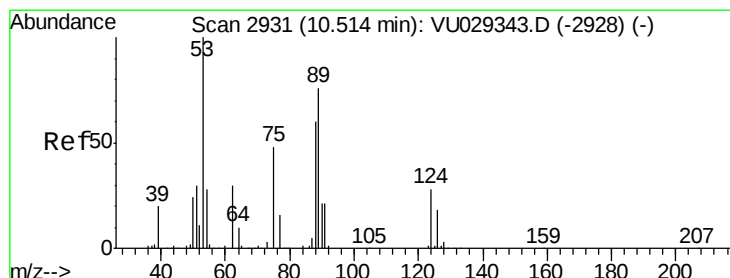
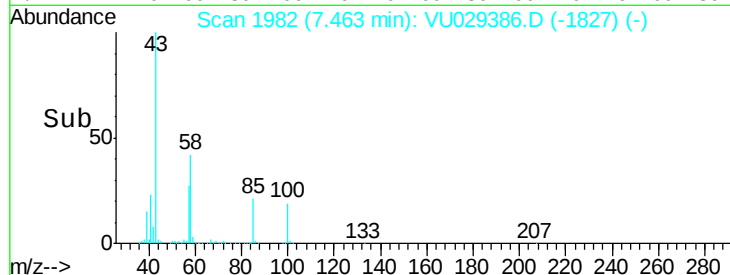
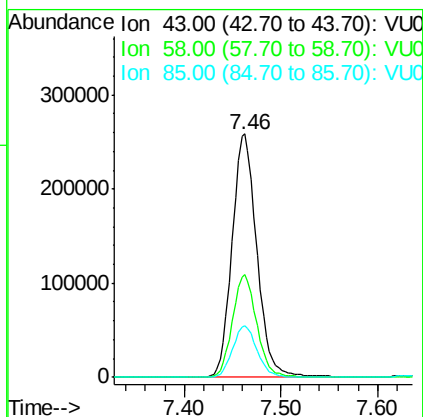
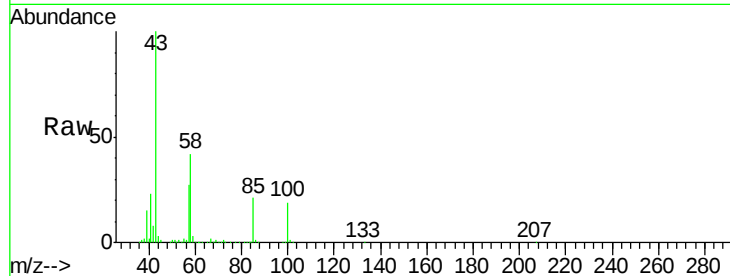
Instrument :
MSVOA_U
ClientSampleId :
VSTDCCC010EC

Tot Ion	Ratio	Resp	Lower	Upper
43	100			
58	41.6	17.6	52.8	
85	21.1	12.3	18.5	

Manual Integrations
APPROVED

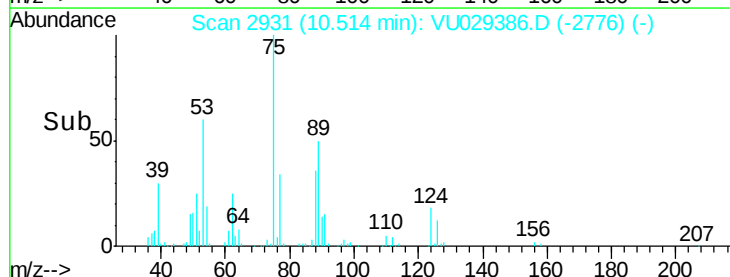
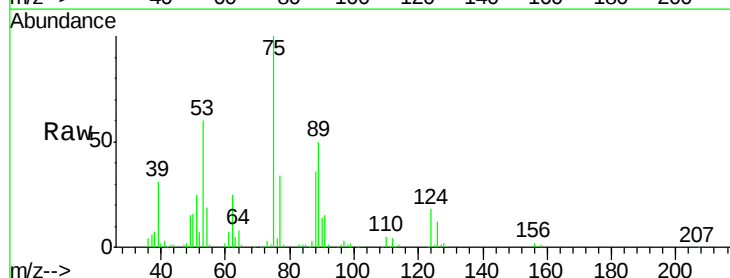
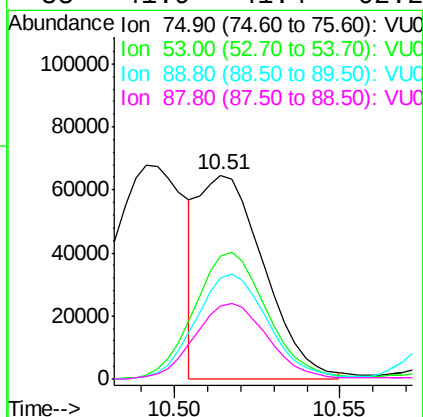
MMDadoda

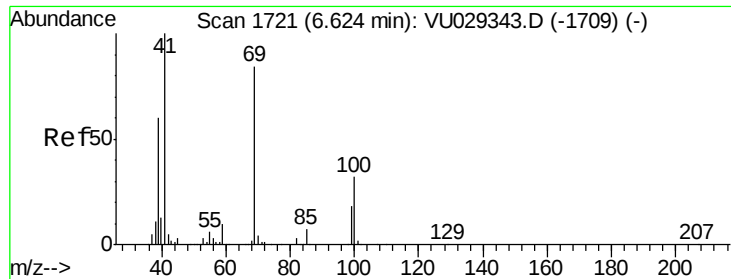
2/18/2019 12:16:07 PM



#46
t-1,4-Dichloro-2-butene
Concen: 18.897 ug/l m
RT: 10.51 min Scan# 2931
Delta R.T. -0.00 min
Lab File: VU029386.D
Acq: 08 Feb 2019 19:58

Tgt Ion	Ratio	Resp	Lower	Upper
75	100			
53	70.0	78.2	117.4	
89	57.8	44.2	66.4	
88	41.9	41.4	62.2	





#47
Methyl methacrylate
Concen: 21.666 ug/l
RT: 6.62 min Scan# 1721
Delta R.T. -0.00 min
Lab File: VU029386.D
Acq: 08 Feb 2019 19:58

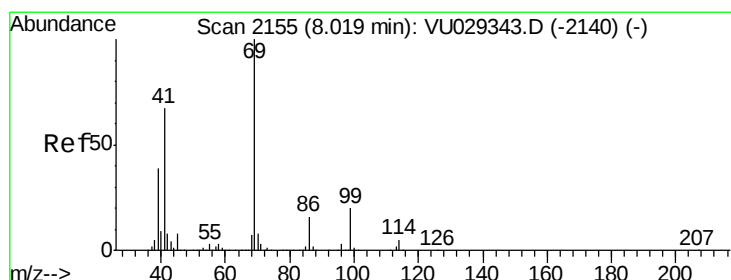
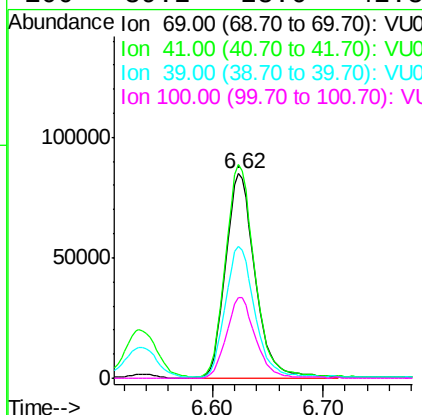
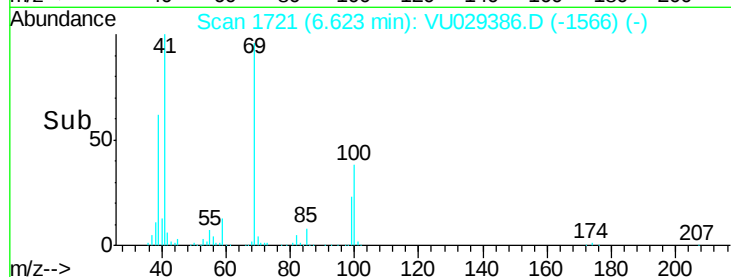
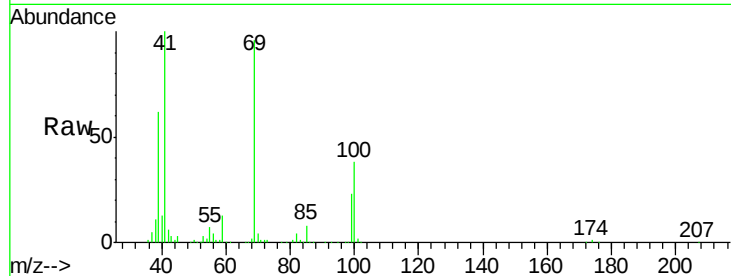
Instrument :
MSVOA_U
ClientSampleId :
VSTDCCC010EC

Tot Ion	Ion	Ratio	Lower	Upper
69	100			
41	103.5	0.0	296.2	
39	64.4	71.2	106.8	
100	39.2	28.6	42.8	

Manual Integrations
APPROVED

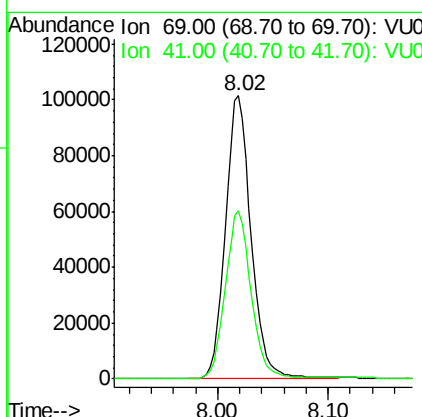
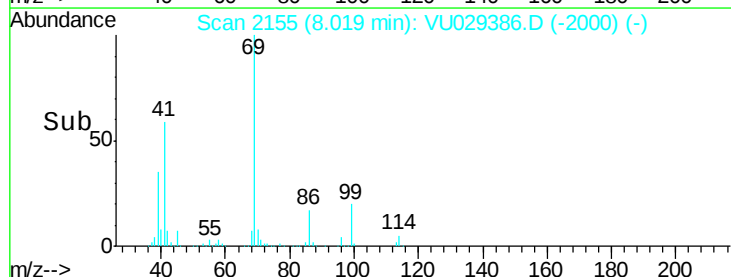
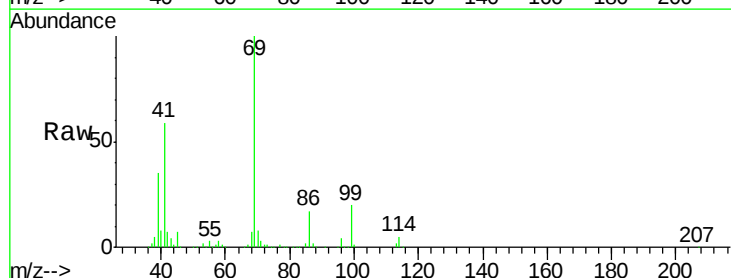
MMDadoda

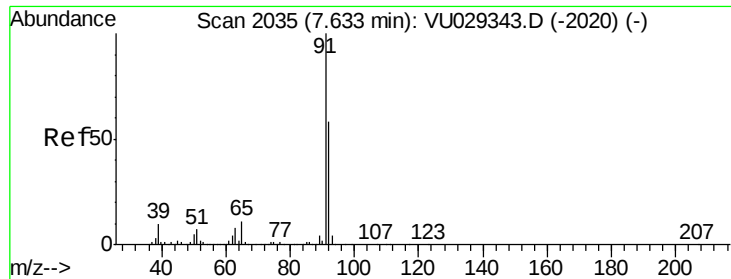
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#48
Ethyl methacrylate
Concen: 10.582 ug/l
RT: 8.02 min Scan# 2155
Delta R.T. -0.00 min
Lab File: VU029386.D
Acq: 08 Feb 2019 19:58

Tgt Ion	Ion	Ratio	Lower	Upper
69	100			
41	59.0	39.9	119.7	





#49

Toluene

Concen: 10.976 ug/l

RT: 7.63 min Scan# 2035

Delta R.T. -0.00 min

Lab File: VU029386.D

Acq: 08 Feb 2019 19:58

Instrument :

MSVOA_U

ClientSampleId :

VSTDCCC010EC

Tot Ion: 92 Resp: 415030

Ion Ratio Lower Upper

92 100

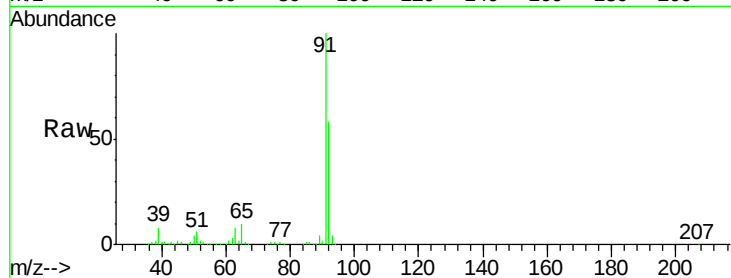
91 173.7 140.7 211.1

Manual Integrations

APPROVED

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Abundance Ion 92.00 (91.70 to 92.70): VU0

Ion 91.00 (90.70 to 91.70): VU0

400000

300000

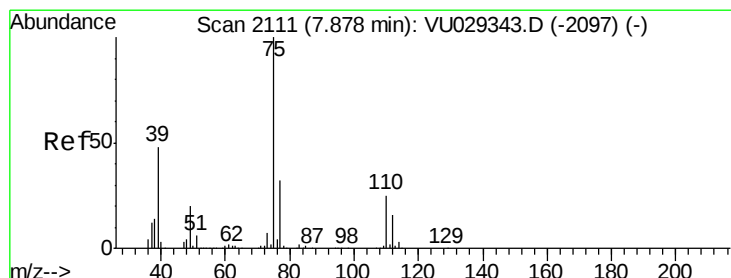
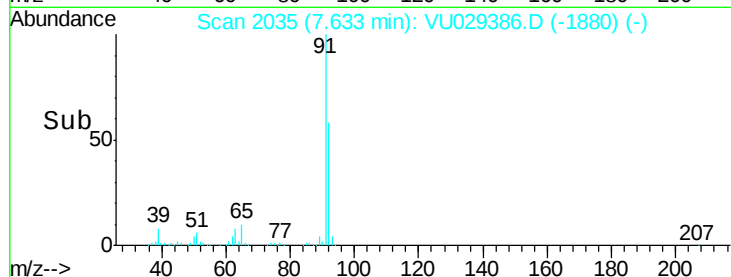
200000

100000

0

7.50 7.60 7.70 7.80

Time-->



#50

t-1,3-Dichloropropene

Concen: 10.107 ug/l

RT: 7.88 min Scan# 2111

Delta R.T. -0.00 min

Lab File: VU029386.D

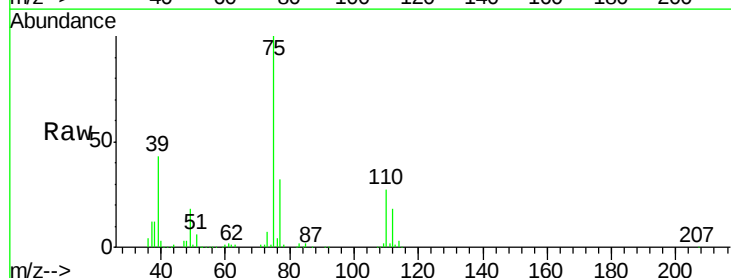
Acq: 08 Feb 2019 19:58

Tgt Ion: 75 Resp: 206799

Ion Ratio Lower Upper

75 100

77 32.2 23.6 35.4



Abundance Ion 75.00 (74.70 to 75.70): VU0

Ion 77.00 (76.70 to 77.70): VU0

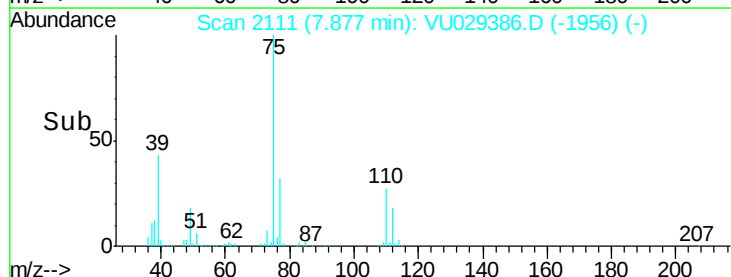
100000

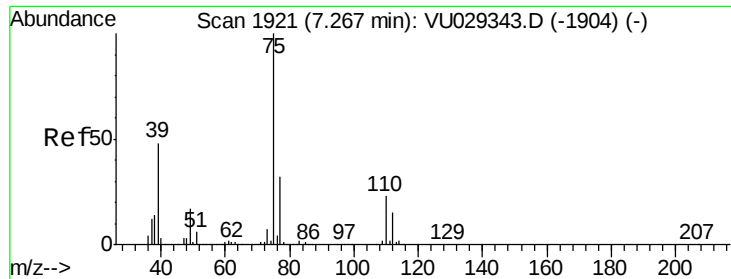
50000

0

7.80 7.90 8.00

Time-->





#51

cis-1,3-Dichloropropene
Concen: 10.362 ug/l
RT: 7.27 min Scan# 1921
Delta R.T. -0.00 min
Lab File: VU029386.D
Acq: 08 Feb 2019 19:58

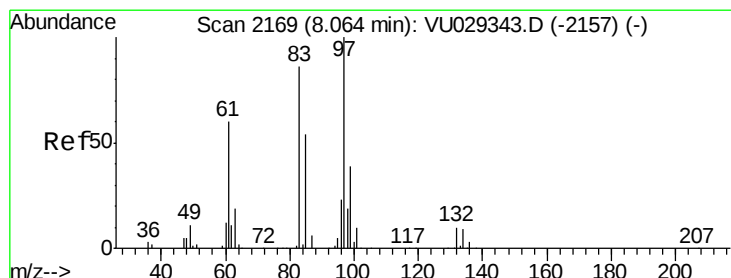
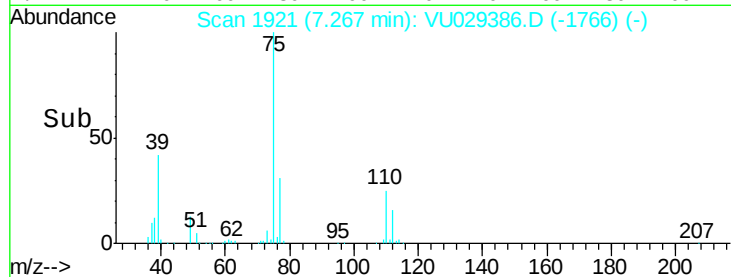
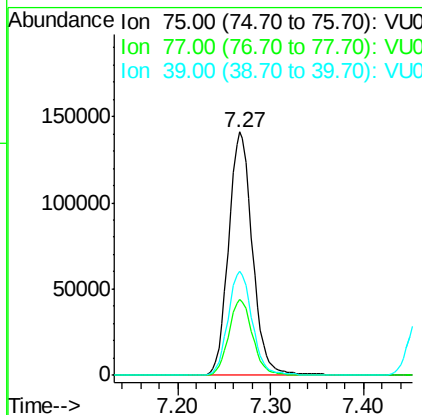
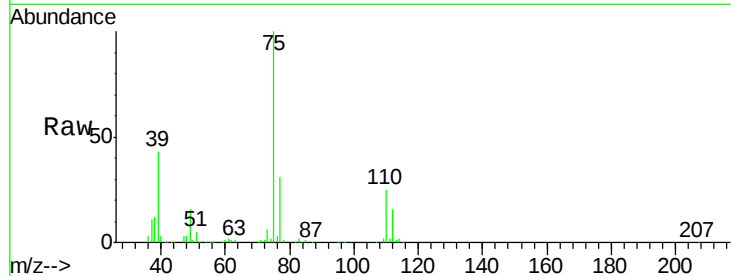
Instrument :
MSVOA_U
ClientSampleId :
VSTDCCC010EC

Tot Ion:	75	Resp:	251864
Ion Ratio	Lower	Upper	
75	100		
77	31.2	24.9	37.3
39	42.4	47.2	70.8#

Manual Integrations
APPROVED

MMDadoda

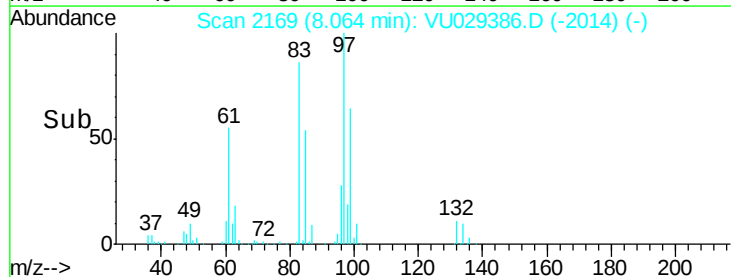
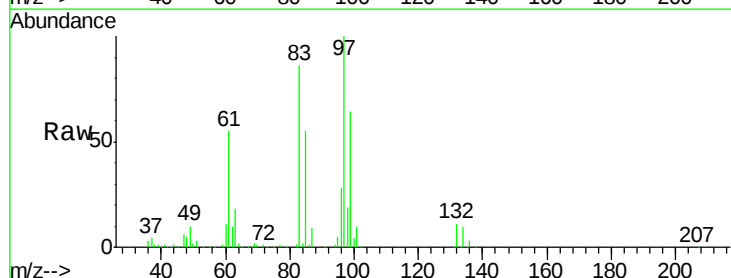
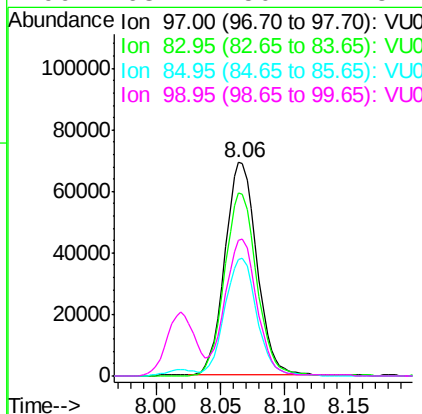
2/18/2019 12:16:07 PM

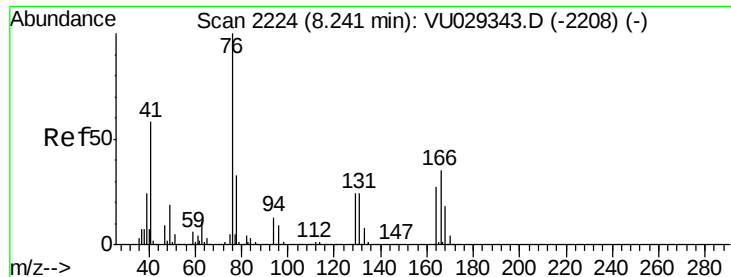


#52

1,1,2-Trichloroethane
Concen: 10.998 ug/l
RT: 8.06 min Scan# 2169
Delta R.T. -0.00 min
Lab File: VU029386.D
Acq: 08 Feb 2019 19:58

Tgt Ion:	97	Resp:	119273
Ion Ratio	Lower	Upper	
97	100		
83	86.0	69.9	104.9
85	54.6	45.8	68.6
99	63.4	50.2	75.2





#53

1,3-Dichloropropane

Concen: 10.532 ug/l

RT: 8.24 min Scan# 2224

Delta R.T. -0.00 min

Lab File: VU029386.D

Acq: 08 Feb 2019 19:58

Instrument :

MSVOA_U

ClientSampleId :

VSTDCCC010EC

Tot Ion: 76 Resp: 200644

Ion Ratio Lower Upper

76 100

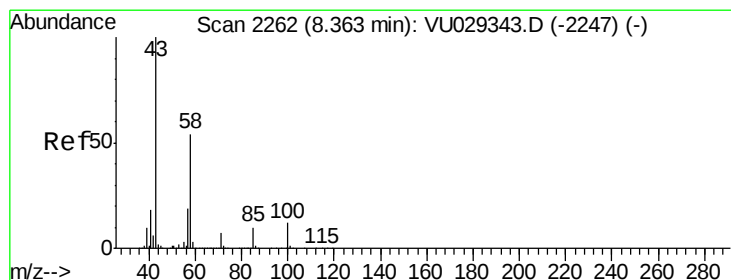
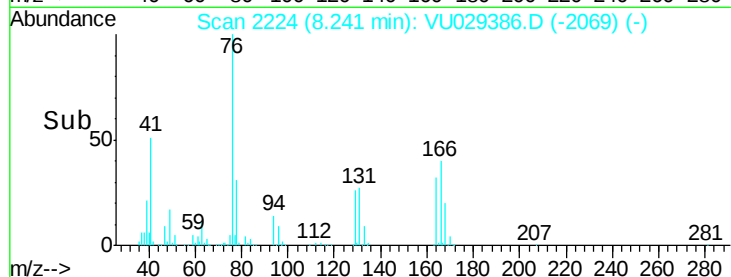
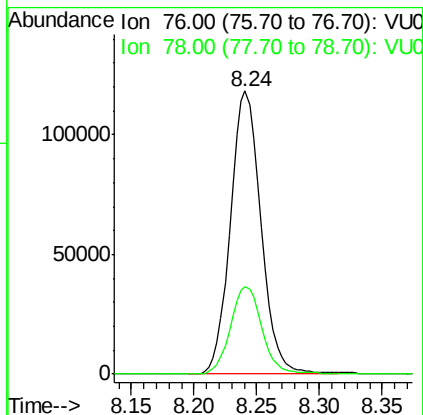
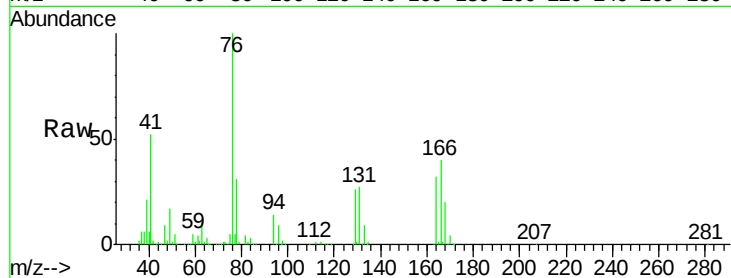
78 31.6 26.3 39.5

Manual Integrations

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#54

2-Hexanone

Concen: 47.780 ug/l

RT: 8.36 min Scan# 2262

Delta R.T. -0.00 min

Lab File: VU029386.D

Acq: 08 Feb 2019 19:58

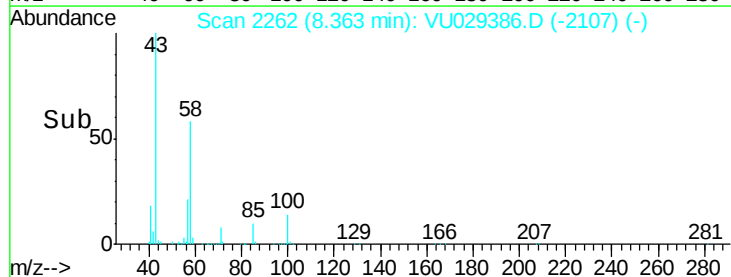
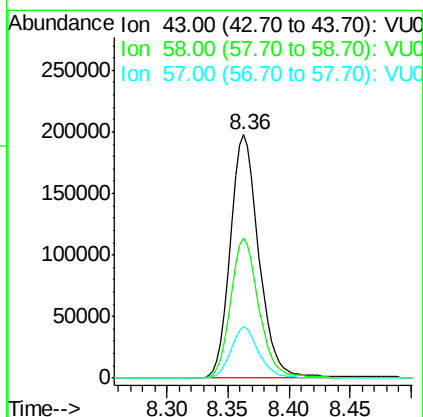
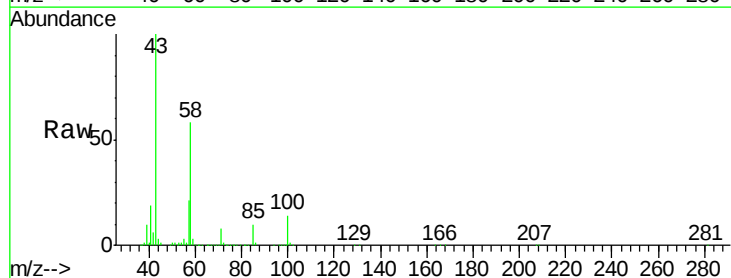
Tgt Ion: 43 Resp: 321607

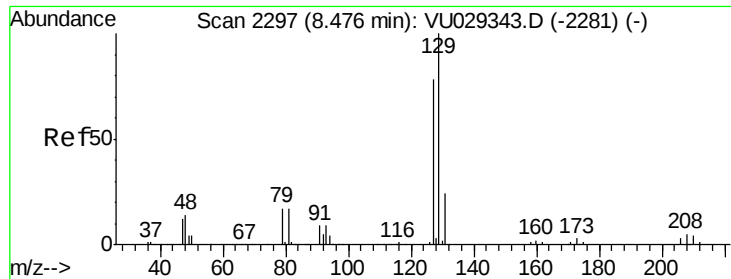
Ion Ratio Lower Upper

43 100

58 57.5 26.0 66.0

57 20.5 0.0 37.7





#55
Dibromochloromethane
Concen: 11.152 ug/l
RT: 8.48 min Scan# 2297
Delta R.T. -0.00 min
Lab File: VU029386.D
Acq: 08 Feb 2019 19:58

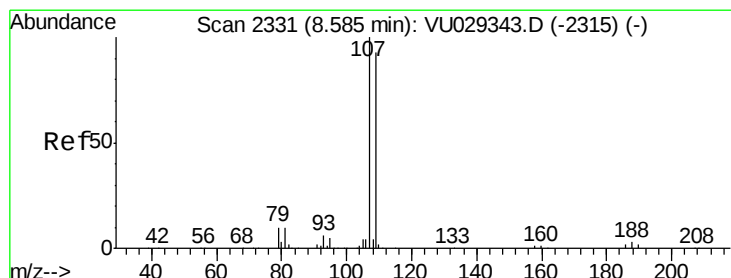
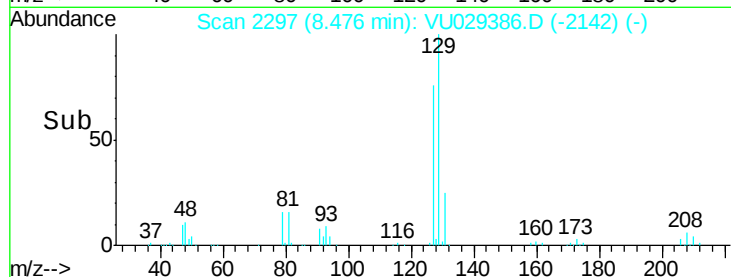
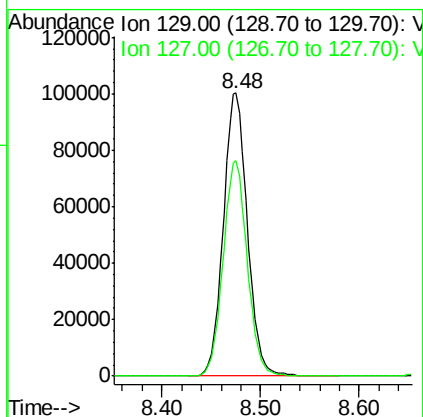
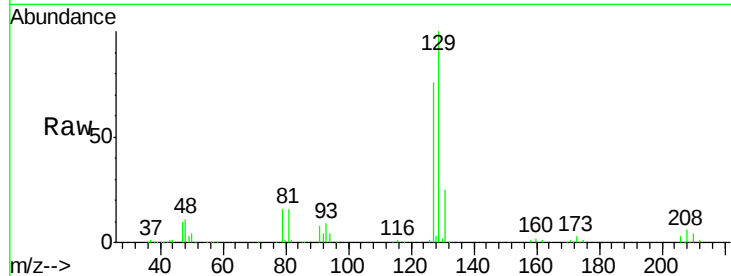
Instrument :
MSVOA_U
ClientSampleId :
VSTDCCC010EC

Tot Ion	Ratio	Lower	Upper
129	100		
127	76.6	60.5	90.7

Manual Integrations
APPROVED

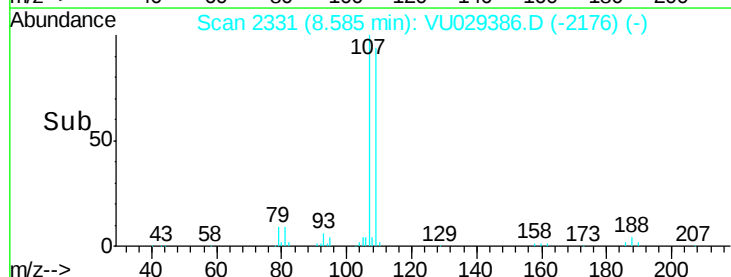
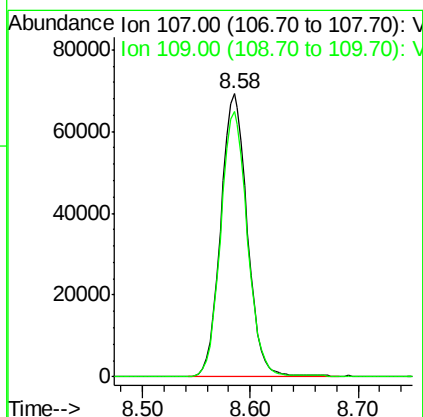
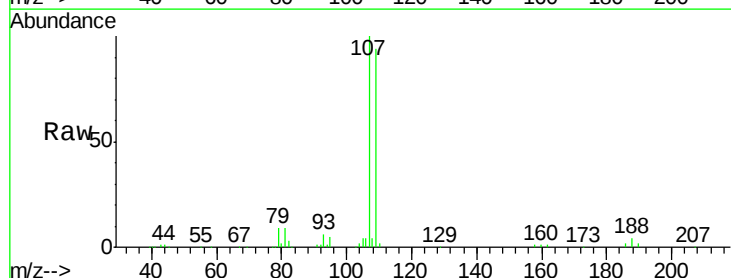
MMDadoda

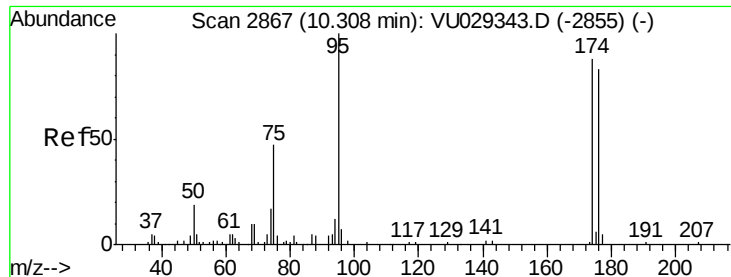
2/18/2019 12:16:07 PM



#56
1,2-Dibromoethane
Concen: 10.639 ug/l
RT: 8.58 min Scan# 2331
Delta R.T. -0.00 min
Lab File: VU029386.D
Acq: 08 Feb 2019 19:58

Tgt Ion	Ratio	Lower	Upper
107	100		
109	94.8	0.0	189.6





#57
4-Bromofluorobenzene
Concen: 10.639 ug/l
RT: 10.31 min Scan# 2866
Delta R.T. -0.00 min
Lab File: VU029386.D
Acq: 08 Feb 2019 19:58

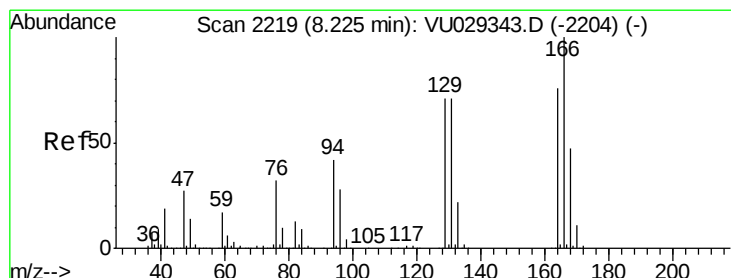
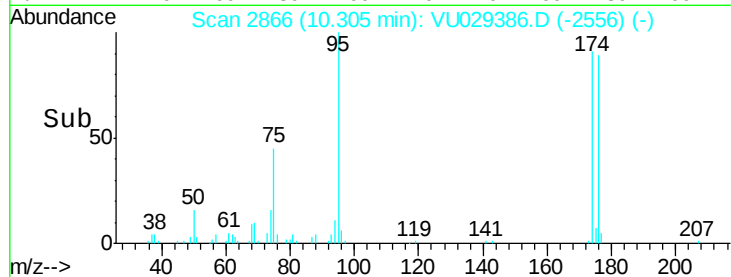
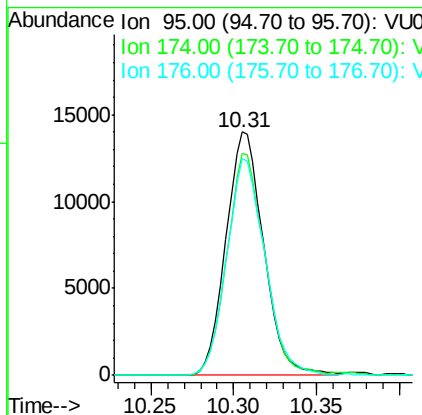
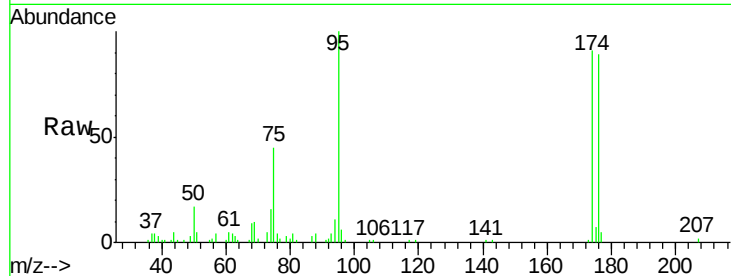
Instrument :
MSVOA_U
ClientSampleId :
VSTDCCC010EC

Tot Ion:	95	Resp:	22199
Ion Ratio	Lower	Upper	
95	100		
174	91.1	64.2	96.2
176	90.5	62.3	93.5

Manual Integrations
APPROVED

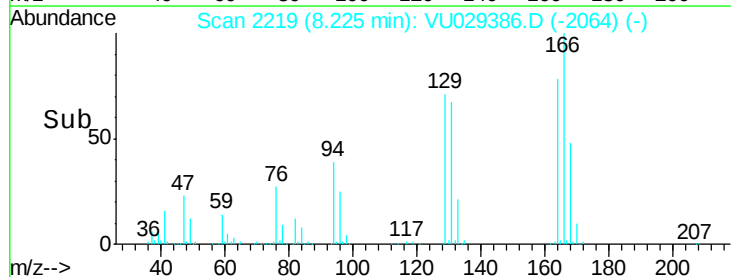
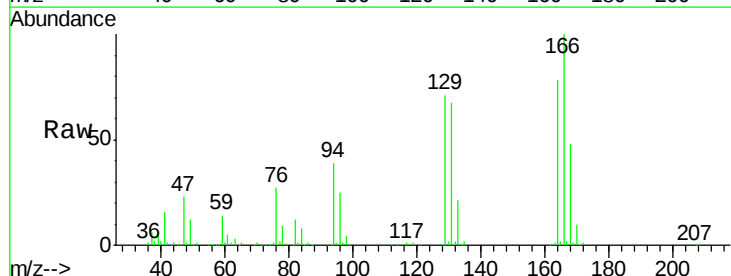
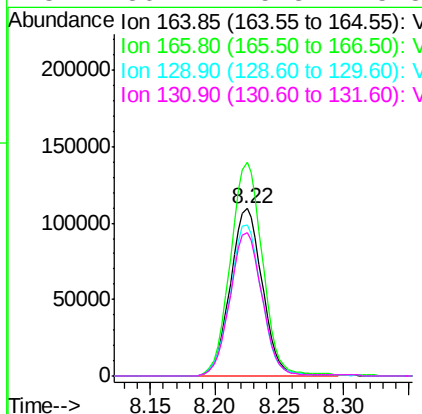
MMDadoda

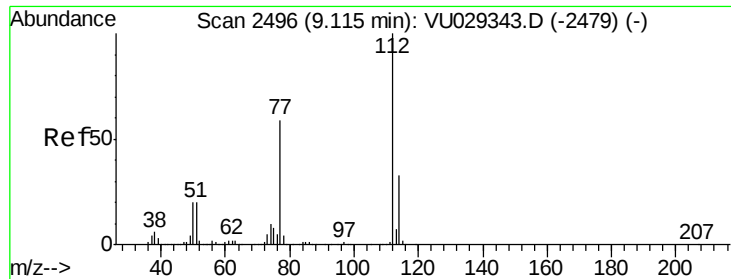
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#58
Tetrachloroethene
Concen: 11.998 ug/l
RT: 8.22 min Scan# 2219
Delta R.T. -0.00 min
Lab File: VU029386.D
Acq: 08 Feb 2019 19:58

Tgt Ion:	164	Resp:	189313
Ion Ratio	Lower	Upper	
164	100		
166	127.6	106.6	159.8
129	90.6	79.9	119.9
131	86.1	75.8	113.8





#59
Chlorobenzene
Concen: 11.430 ug/l
RT: 9.12 min Scan# 2496
Delta R.T. -0.00 min
Lab File: VU029386.D
Acq: 08 Feb 2019 19:58

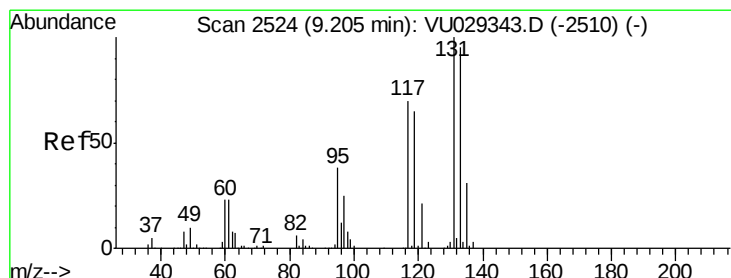
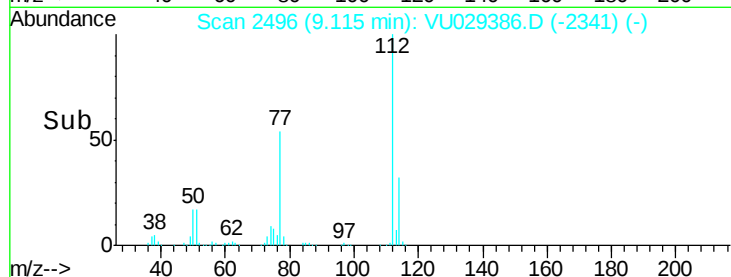
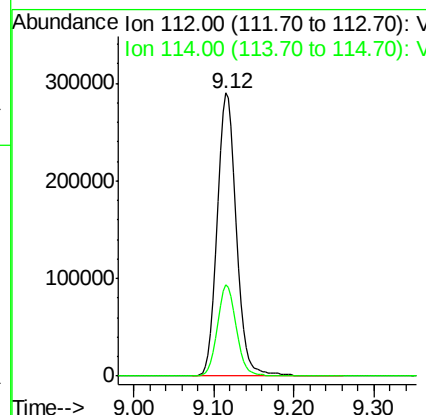
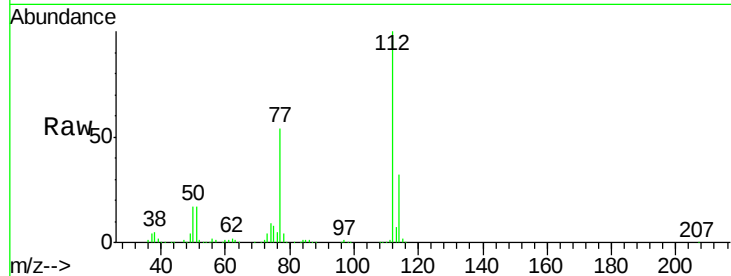
Instrument :
MSVOA_U
ClientSampleId :
VSTDCCC010EC

Tot Ion	Ratio	Resp	Lower	Upper
112	100	486869		
114	32.2	26.2	39.4	

Manual Integrations
APPROVED

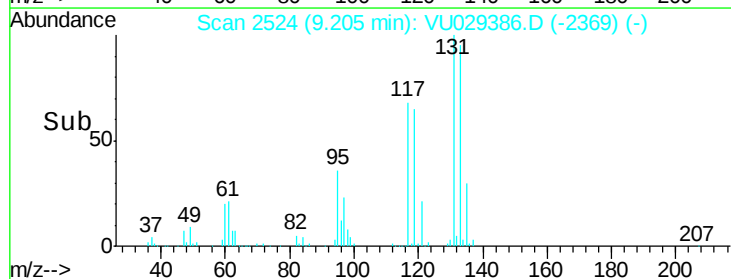
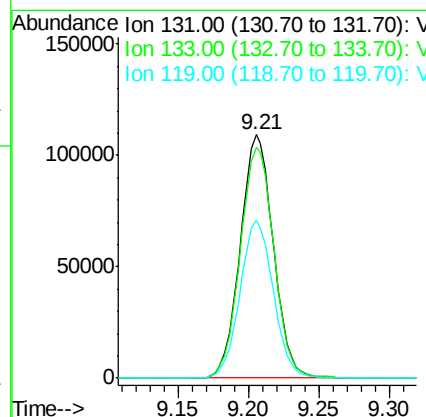
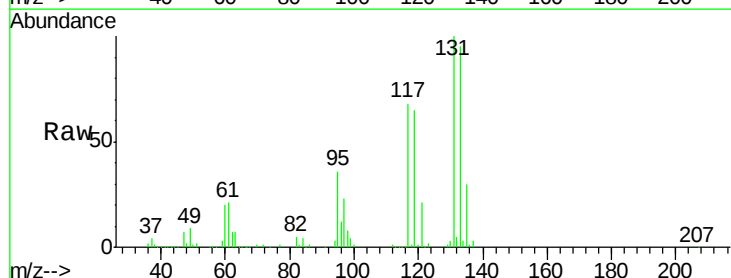
MMDadoda

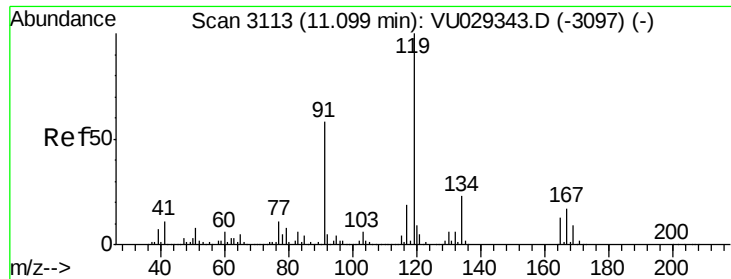
2/18/2019 12:16:07 PM



#60
1,1,1,2-Tetrachloroethane
Concen: 11.409 ug/l
RT: 9.21 min Scan# 2524
Delta R.T. -0.00 min
Lab File: VU029386.D
Acq: 08 Feb 2019 19:58

Tgt Ion	Ratio	Resp	Lower	Upper
131	100	179569		
133	96.7	77.3	115.9	
119	65.4	48.9	73.3	





#61
 Pentachloroethane
 Concen: 11.265 ug/l
 RT: 11.10 min Scan# 3113
 Delta R.T. -0.00 min
 Lab File: VU029386.D
 Acq: 08 Feb 2019 19:58

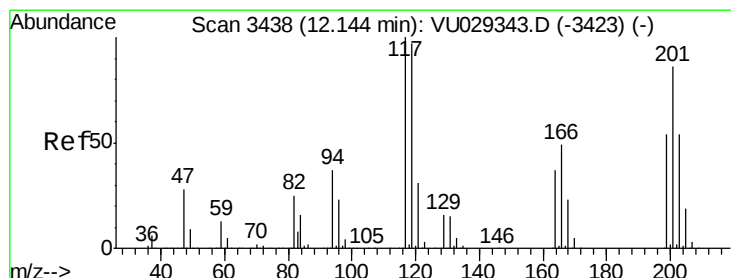
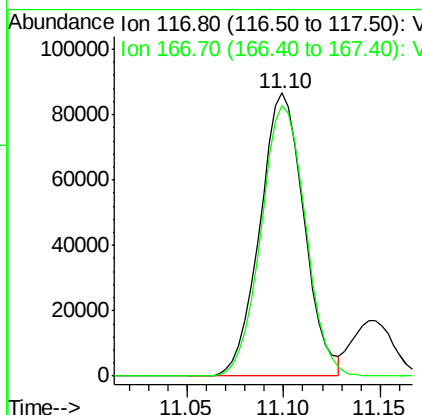
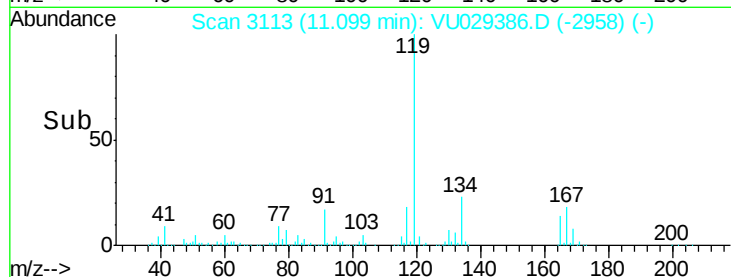
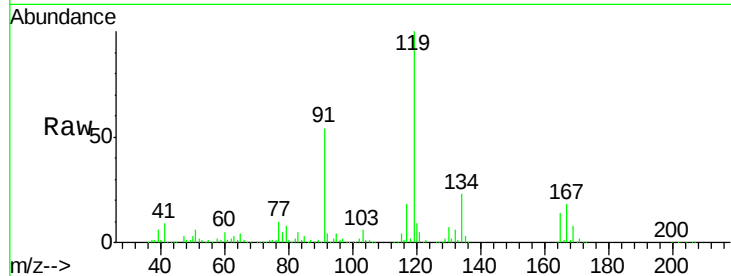
Instrument :
 MSVOA_U
 ClientSampleId :
 VSTDCCC010EC

Tot Ion	Ratio	Resp	Lower	Upper
117	100	137418		
167	96.3	65.9	98.9	

Manual Integrations
 APPROVED

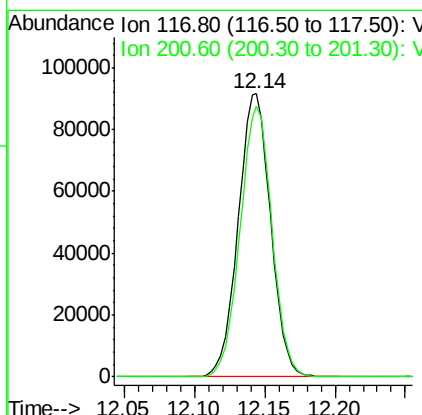
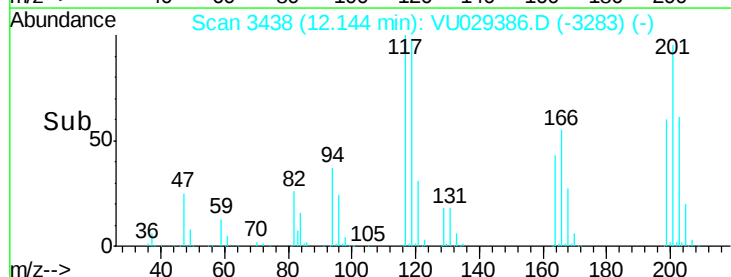
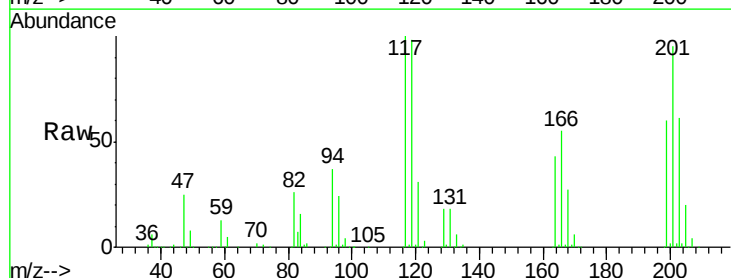
MMDadoda

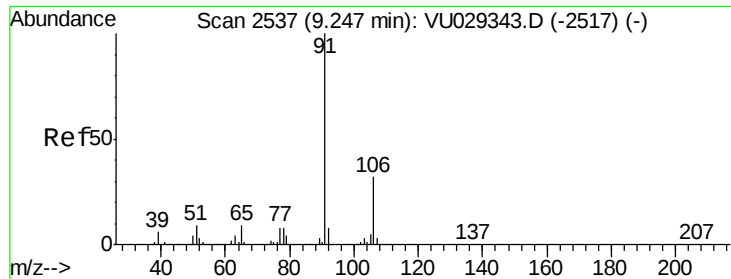
2/18/2019 12:16:07 PM



#62
 Hexachloroethane
 Concen: 11.099 ug/l
 RT: 12.14 min Scan# 3438
 Delta R.T. -0.00 min
 Lab File: VU029386.D
 Acq: 08 Feb 2019 19:58

Tgt Ion	Ratio	Resp	Lower	Upper
117	100	147778		
201	93.7	68.2	102.2	





#63
Ethyl Benzene
Concen: 10.921 ug/l
RT: 9.25 min Scan# 2537
Delta R.T. -0.00 min
Lab File: VU029386.D
Acq: 08 Feb 2019 19:58

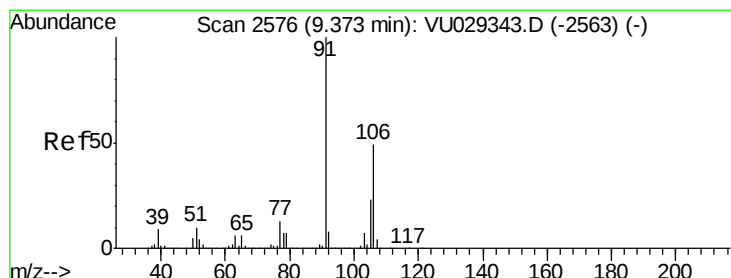
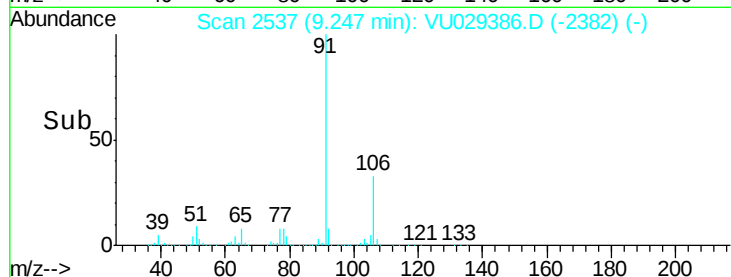
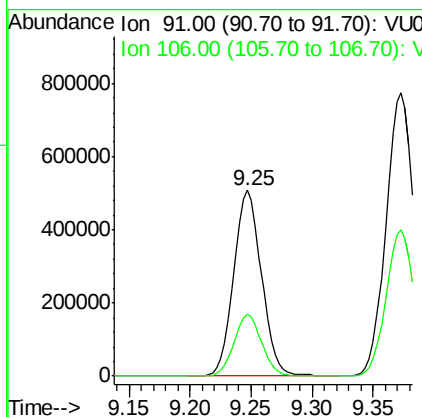
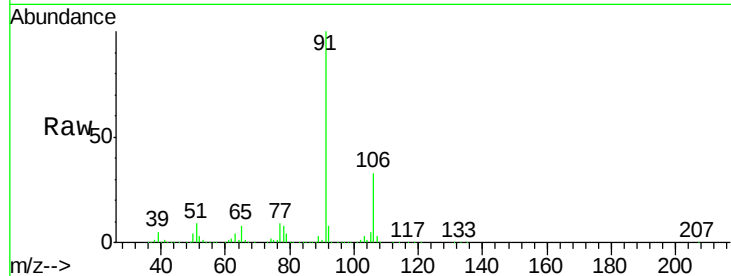
Instrument :
MSVOA_U
ClientSampleId :
VSTDCCC010EC

Tot Ion: 91 Resp: 807828
Ion Ratio Lower Upper
91 100
106 33.3 23.8 35.6

Manual Integrations
APPROVED

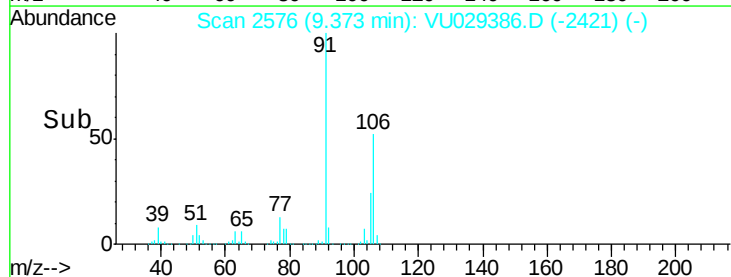
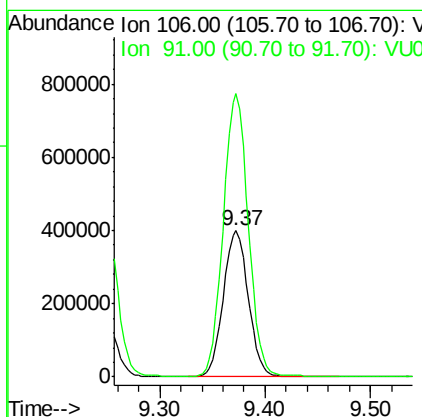
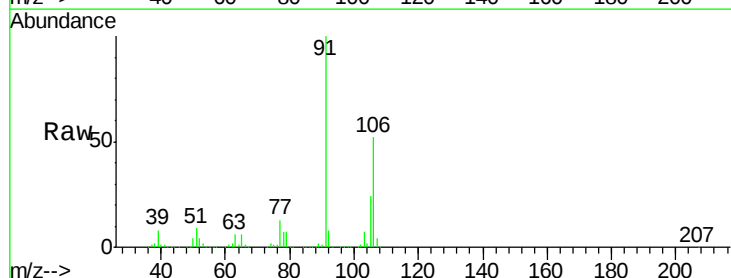
MMDadoda

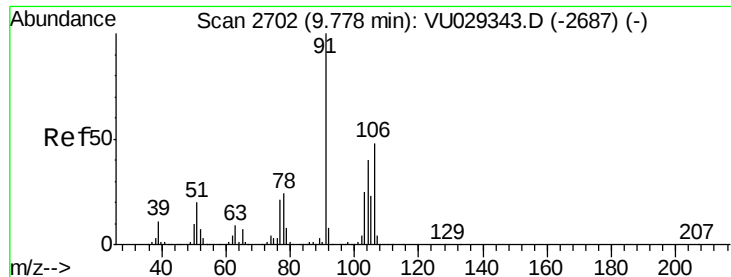
2/18/2019 12:16:07 PM



#64
m/p-Xylenes
Concen: 22.793 ug/l
RT: 9.37 min Scan# 2576
Delta R.T. -0.00 min
Lab File: VU029386.D
Acq: 08 Feb 2019 19:58

Tgt Ion: 106 Resp: 655244
Ion Ratio Lower Upper
106 100
91 193.7 174.6 261.8





#65
o-Xylene
Concen: 11.286 ug/l
RT: 9.78 min Scan# 2702
Delta R.T. -0.00 min
Lab File: VU029386.D
Acq: 08 Feb 2019 19:58

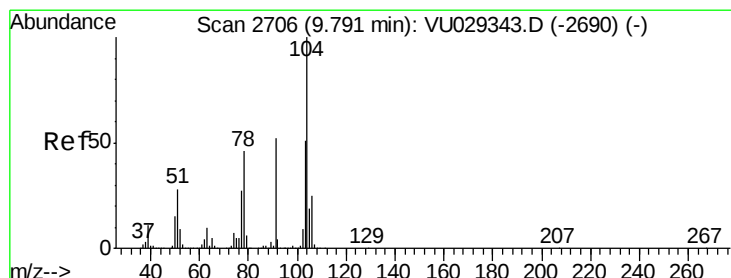
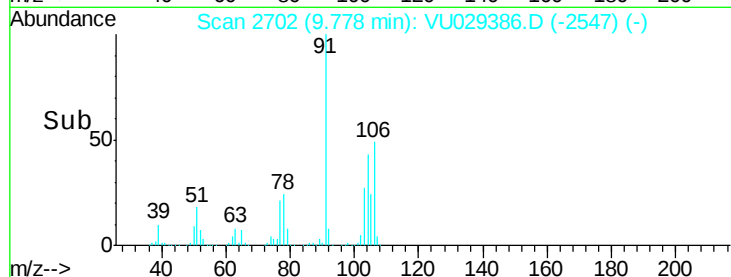
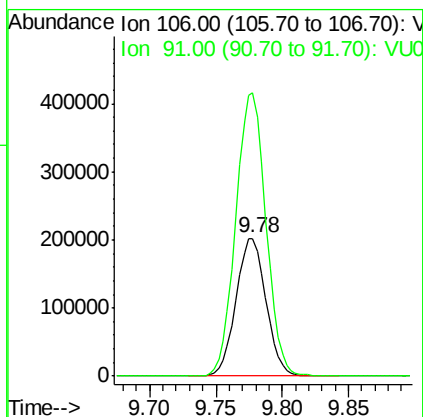
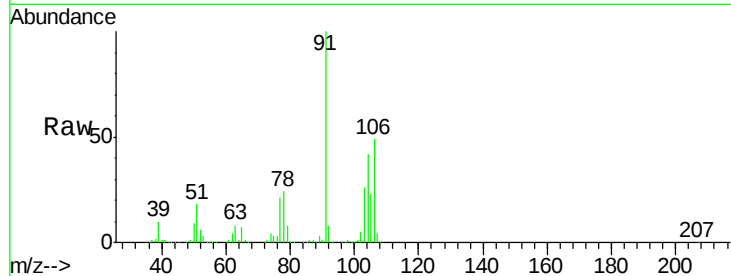
Instrument :
MSVOA_U
ClientSampleId :
VSTDCCC010EC

Tot Ion	Ion	Ratio	Resp	Lower	Upper
106	106	100	318466		
91	91	206.7	114.5	343.4	

Manual Integrations
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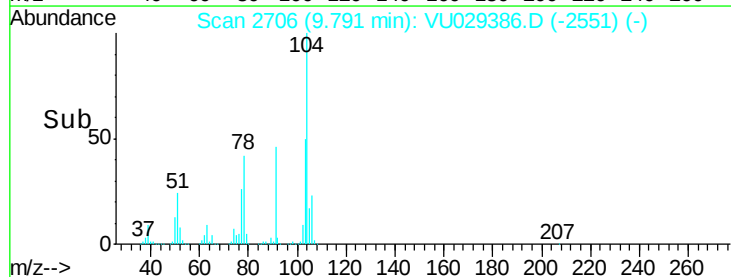
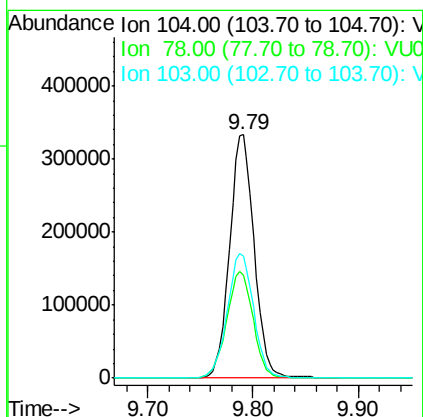
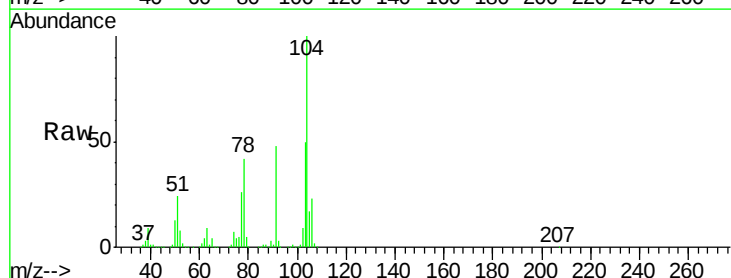
MMDadoda

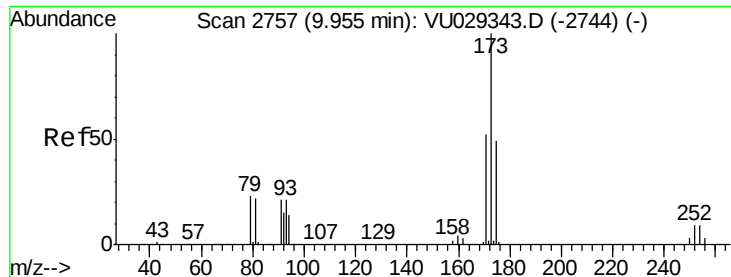
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#66
Styrene
Concen: 11.401 ug/l
RT: 9.79 min Scan# 2706
Delta R.T. -0.00 min
Lab File: VU029386.D
Acq: 08 Feb 2019 19:58

Tgt Ion	Ion	Ratio	Resp	Lower	Upper
104	104	100	536288		
78	78	47.1	46.5	69.7	
103	103	54.9	44.7	67.1	





#67

Bromoform

Concen: 11.251 ug/l

RT: 9.96 min Scan# 2758

Delta R.T. 0.00 min

Lab File: VU029386.D

Acq: 08 Feb 2019 19:58

Instrument :

MSVOA_U

ClientSampleId :

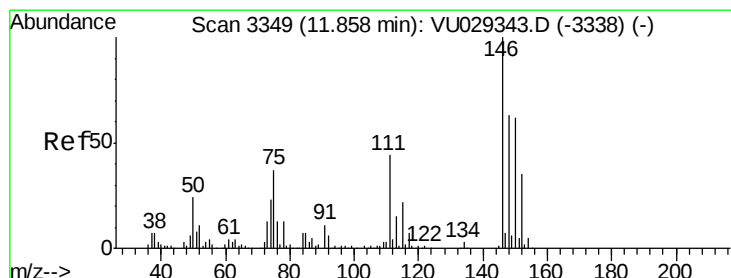
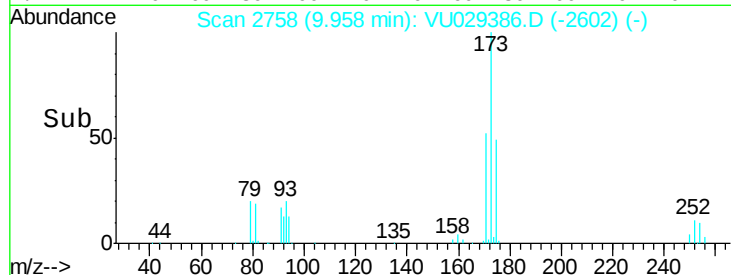
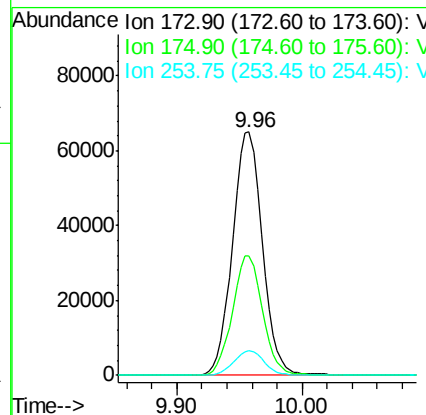
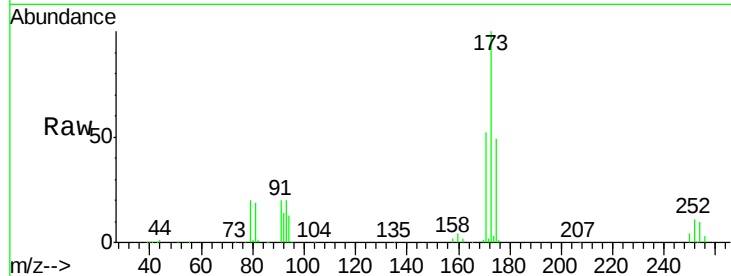
VSTDCCC010EC

Tot Ion:	173	Resp:	107891
Ion Ratio	Lower	Upper	
173	100		
175	49.4	38.9	58.3
254	10.3	7.4	11.2

Manual Integrations
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#68

1,2-Dichlorobenzene-d4

Concen: 11.251 ug/l

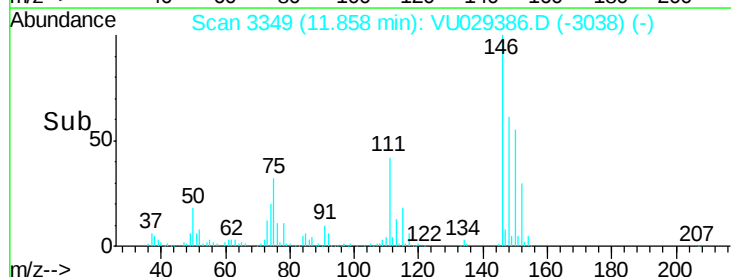
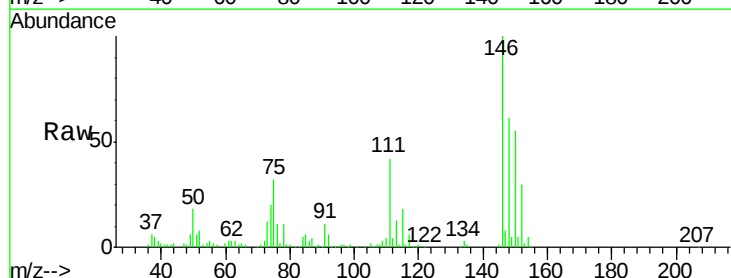
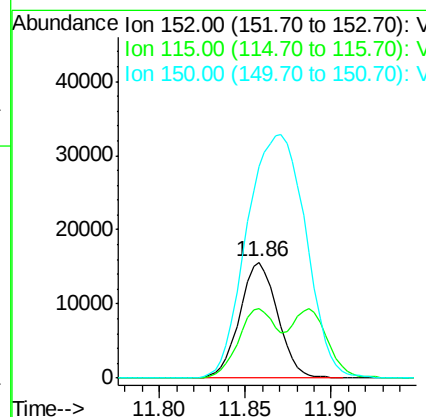
RT: 11.86 min Scan# 3349

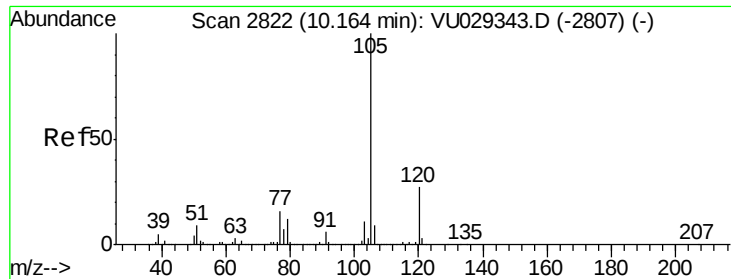
Delta R.T. -0.00 min

Lab File: VU029386.D

Acq: 08 Feb 2019 19:58

Tgt Ion:	152	Resp:	24036
Ion Ratio	Lower	Upper	
152	100		
115	59.5	0.0	133.4
150	325.1	0.0	670.8





#69

Isopropylbenzene

Concen: 11.231 ug/l

RT: 10.16 min Scan# 2822

Delta R.T. -0.00 min

Lab File: VU029386.D

Acq: 08 Feb 2019 19:58

Instrument :

MSVOA_U

ClientSampleId :

VSTDCCC010EC

Tot Ion: 105 Resp: 846693

Ion Ratio Lower Upper

105 100

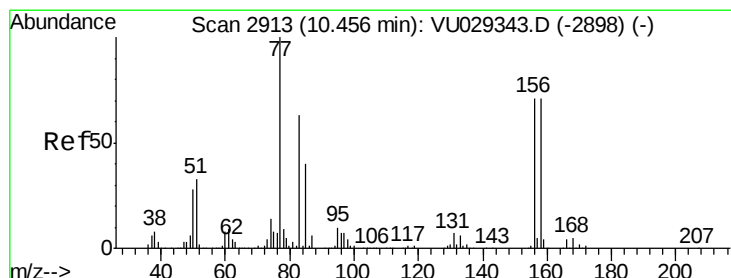
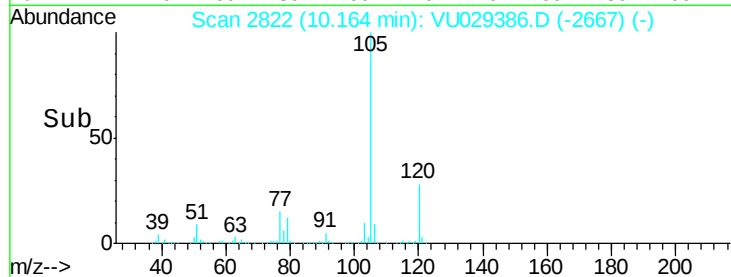
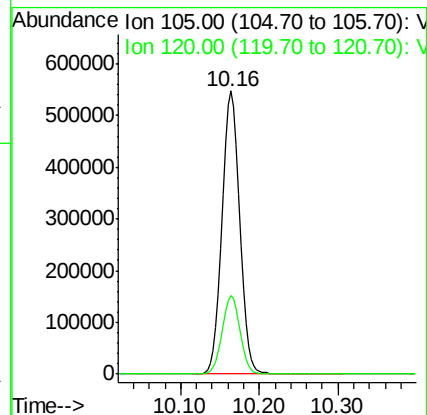
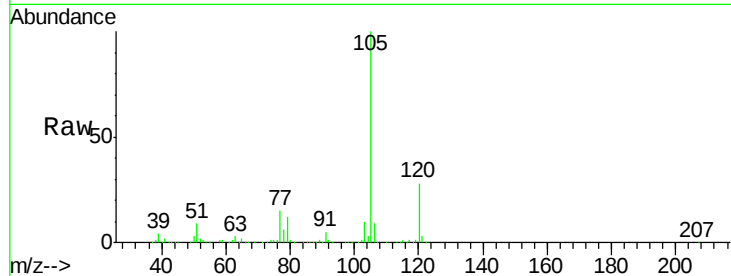
120 27.9 12.6 37.6

Manual Integrations

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#70

1,1,2,2-Tetrachloroethane

Concen: 10.703 ug/l

RT: 10.46 min Scan# 2913

Delta R.T. -0.00 min

Lab File: VU029386.D

Acq: 08 Feb 2019 19:58

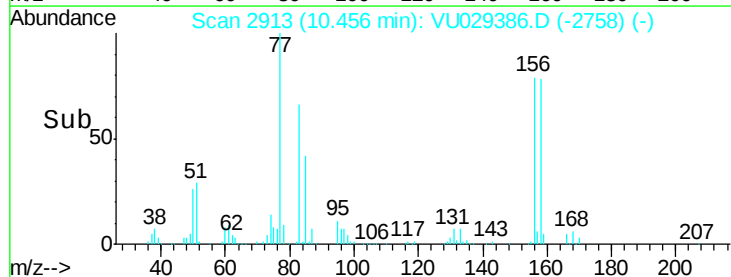
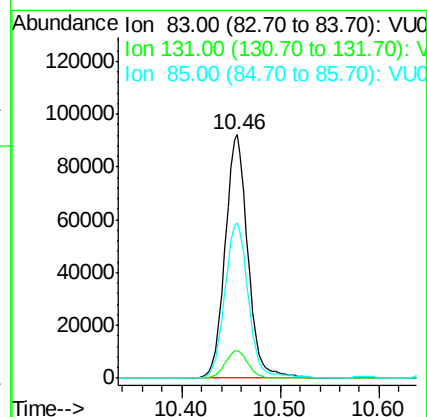
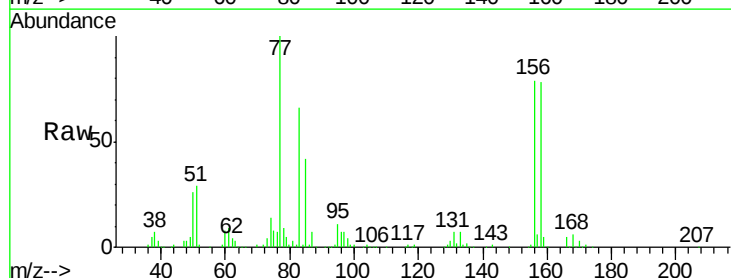
Tgt Ion: 83 Resp: 148767

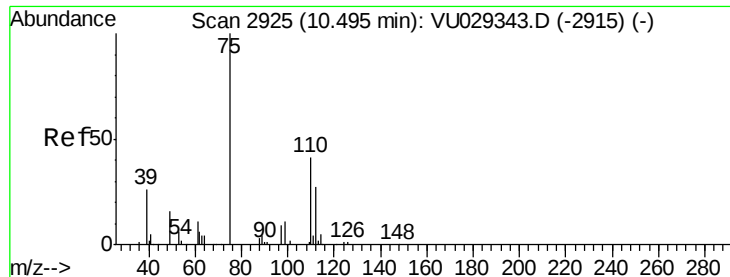
Ion Ratio Lower Upper

83 100

131 11.3 8.1 12.1

85 66.5 50.3 75.5





#71
 1,2,3-Trichloropropane
 Concen: 11.130 ug/l m
 RT: 10.49 min Scan# 2924
 Delta R.T. -0.00 min
 Lab File: VU029386.D
 Acq: 08 Feb 2019 19:58

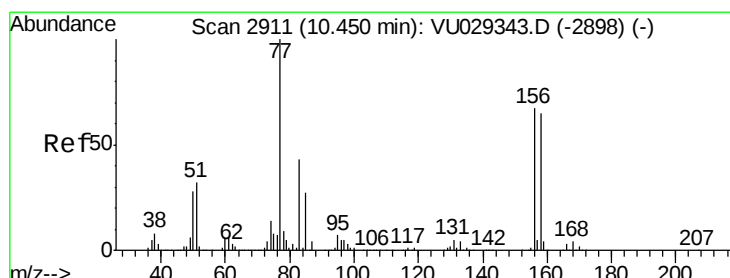
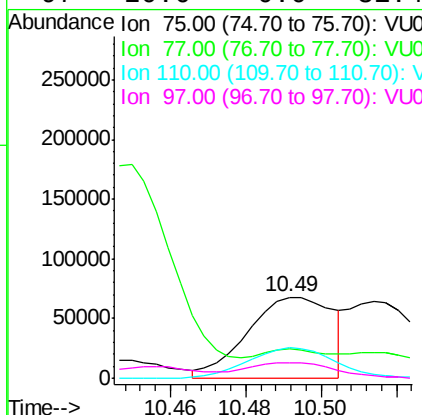
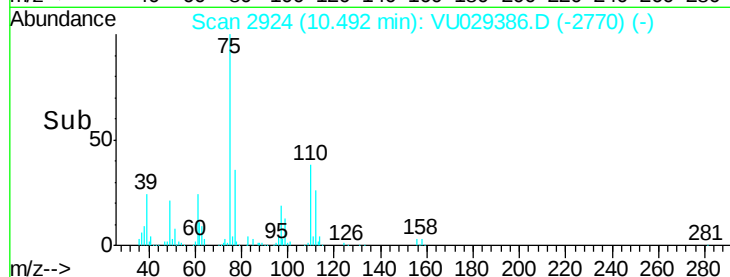
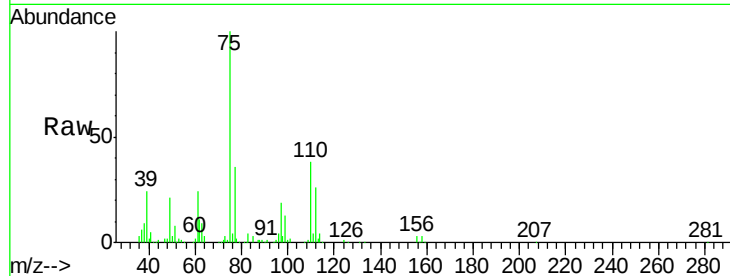
Instrument :
 MSVOA_U
 ClientSampleId :
 VSTDCCC010EC

Tot Ion	Ratio	Lower	Upper
75	100		
77	8.5	0.0	0.0#
110	39.4	0.0	63.6
97	20.6	0.0	31.4

Manual Integrations
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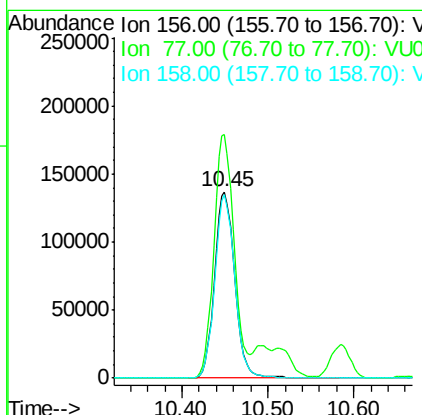
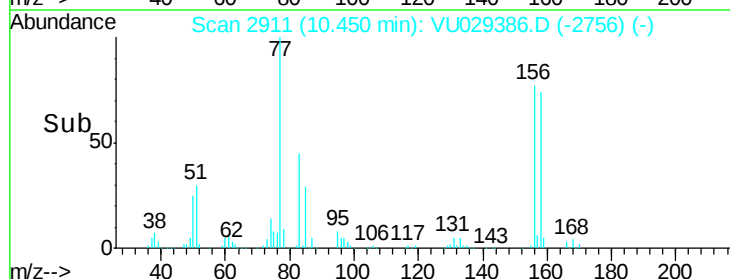
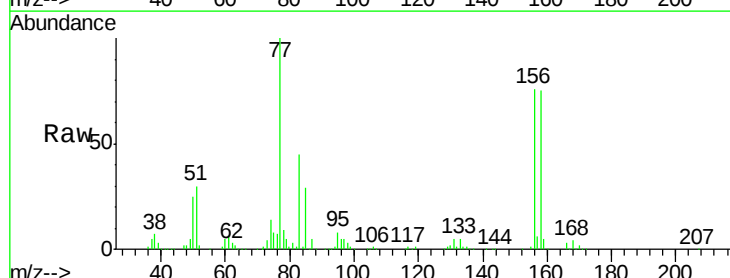
MMDadoda

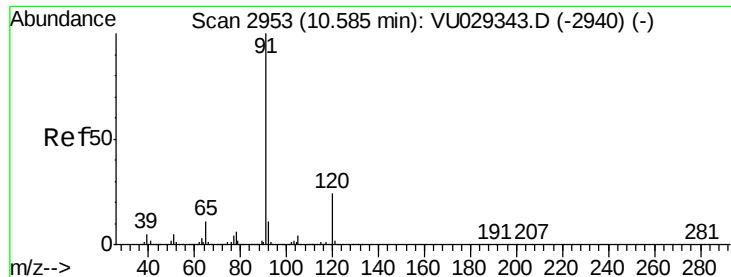
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#72
 Bromobenzene
 Concen: 12.278 ug/l
 RT: 10.45 min Scan# 2911
 Delta R.T. -0.00 min
 Lab File: VU029386.D
 Acq: 08 Feb 2019 19:58

Tgt Ion	Ratio	Lower	Upper
156	100		
77	131.3	0.0	343.8
158	97.2	0.0	195.0





#73
n-propylbenzene
Concen: 11.567 ug/l
RT: 10.58 min Scan# 2953
Delta R.T. -0.00 min
Lab File: VU029386.D
Acq: 08 Feb 2019 19:58

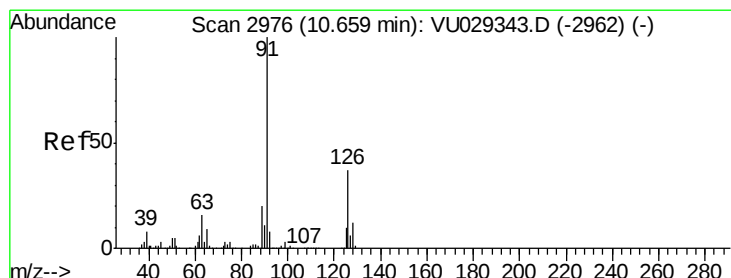
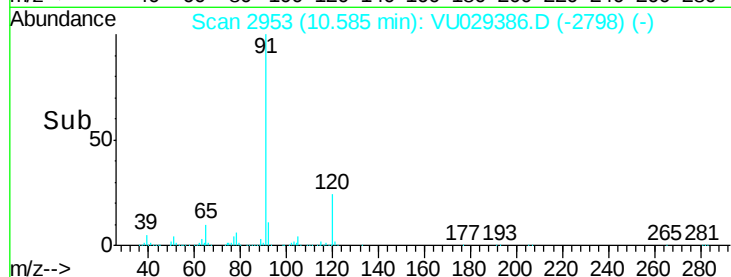
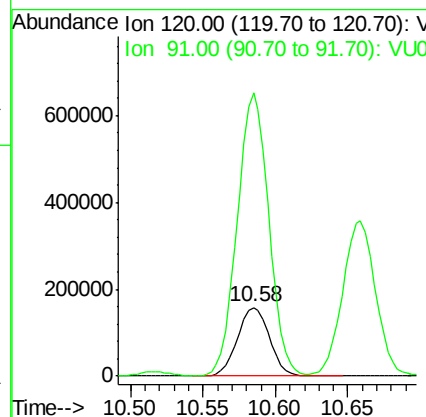
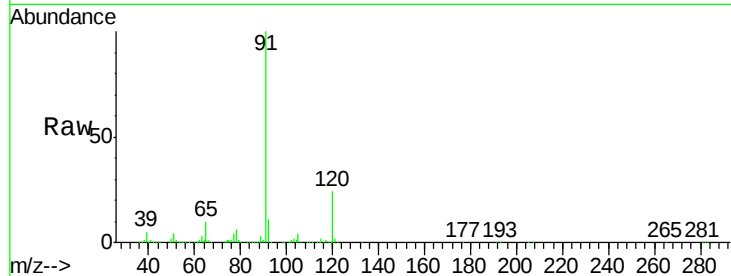
Instrument :
MSVOA_U
ClientSampleId :
VSTDCCC010EC

Tot Ion:120 Resp: 242889
Ion Ratio Lower Upper
120 100
91 404.0 370.0 555.0

Manual Integrations
APPROVED

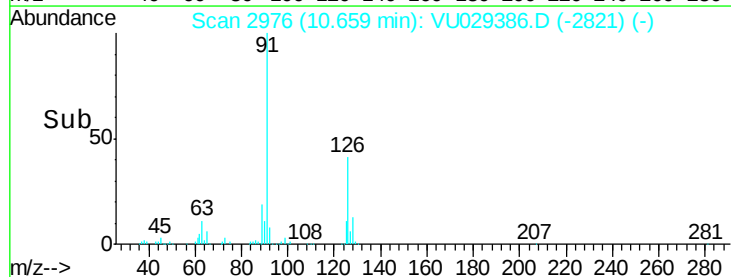
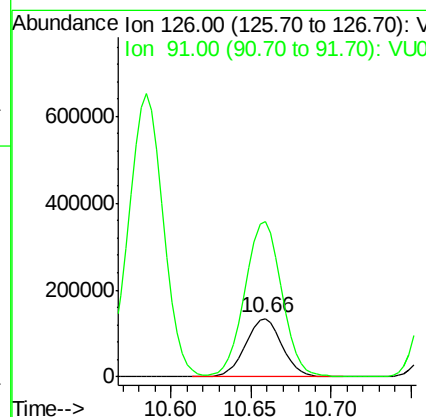
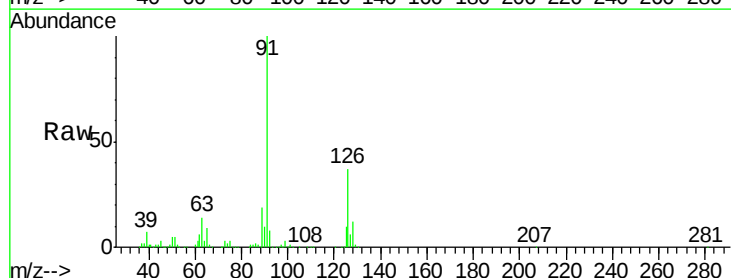
MMDadoda

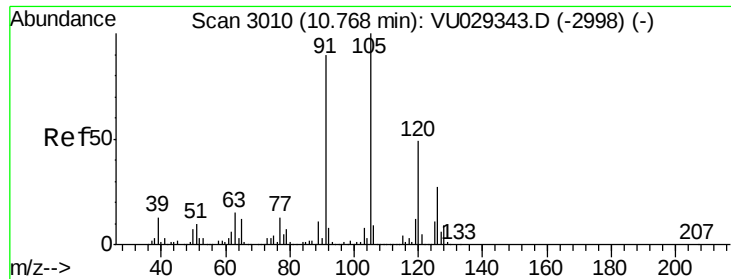
2/18/2019 12:16:07 PM



#74
2-Chlorotoluene
Concen: 11.587 ug/l
RT: 10.66 min Scan# 2976
Delta R.T. -0.00 min
Lab File: VU029386.D
Acq: 08 Feb 2019 19:58

Tgt Ion:126 Resp: 207180
Ion Ratio Lower Upper
126 100
91 269.3 0.0 643.0





#75

1,3,5-Trimethylbenzene

Concen: 11.034 ug/l

RT: 10.77 min Scan# 3010

Delta R.T. -0.00 min

Lab File: VU029386.D

Acq: 08 Feb 2019 19:58

Instrument :

MSVOA_U

ClientSampleId :

VSTDCCC010EC

Tot Ion:105 Resp: 717183

Ion Ratio Lower Upper

105 100

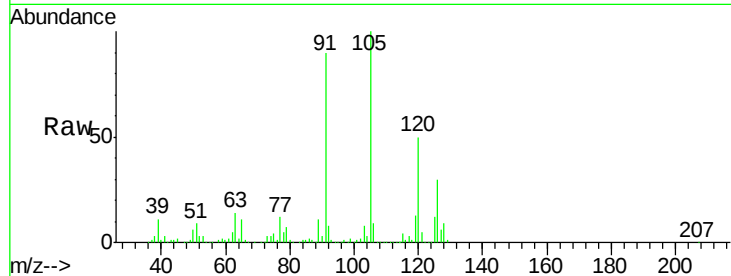
120 50.4 37.3 55.9

Manual Integrations

APPROVED

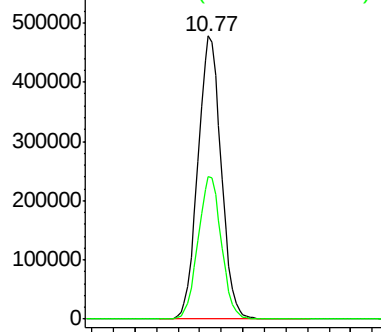
MMDadoda

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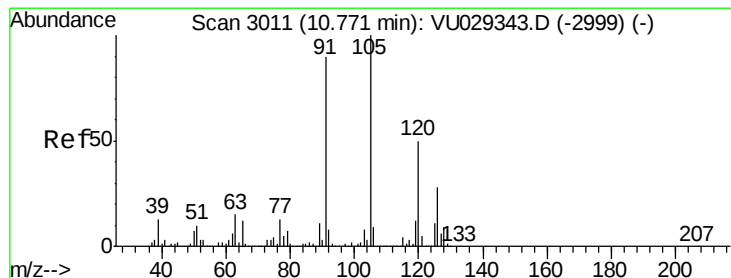
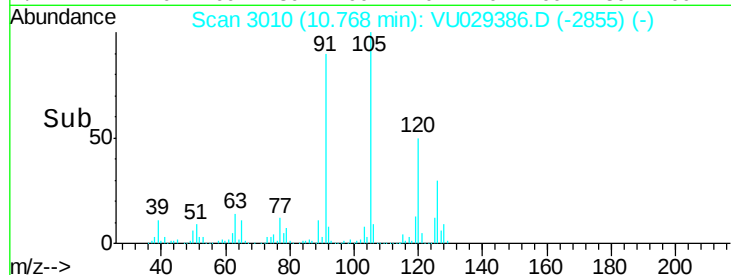


Abundance Ion 105.00 (104.70 to 105.70): V

Ion 120.00 (119.70 to 120.70): V



Time-->



#76

4-Chlorotoluene

Concen: 11.768 ug/l

RT: 10.77 min Scan# 3010

Delta R.T. -0.00 min

Lab File: VU029386.D

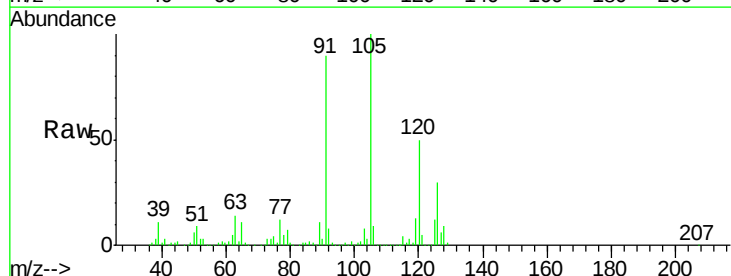
Acq: 08 Feb 2019 19:58

Tgt Ion:126 Resp: 218384

Ion Ratio Lower Upper

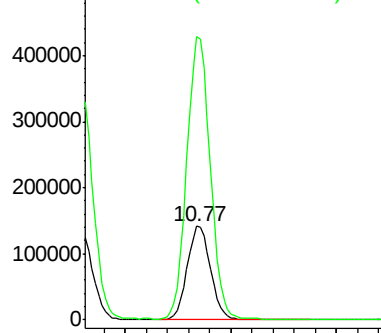
126 100

91 302.8 0.0 727.4

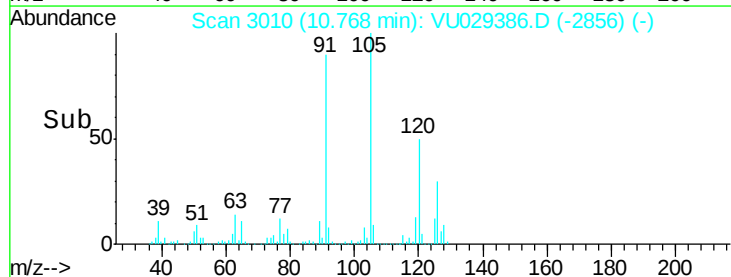


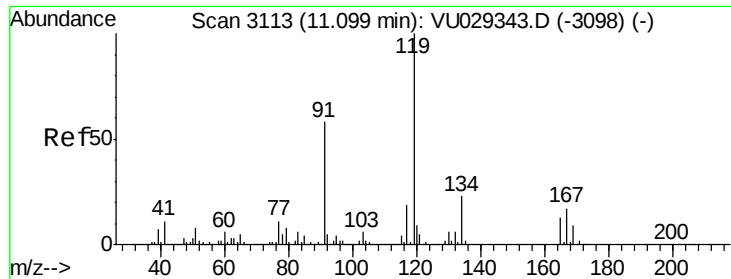
Abundance Ion 126.00 (125.70 to 126.70): V

Ion 91.00 (90.70 to 91.70): VU0



Time-->





#77
tert-Butylbenzene
Concen: 11.419 ug/l
RT: 11.10 min Scan# 3113
Delta R.T. -0.00 min
Lab File: VU029386.D
Acq: 08 Feb 2019 19:58

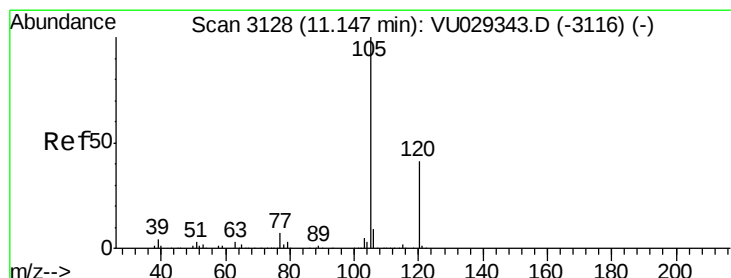
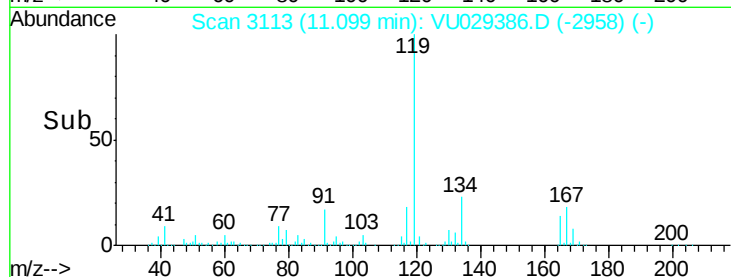
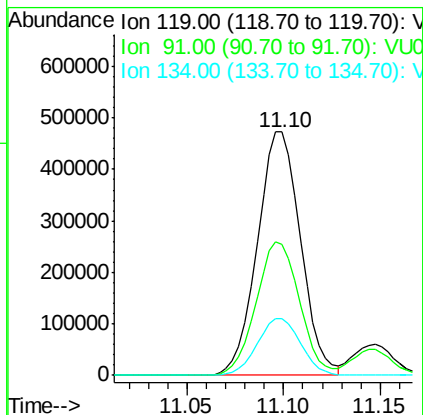
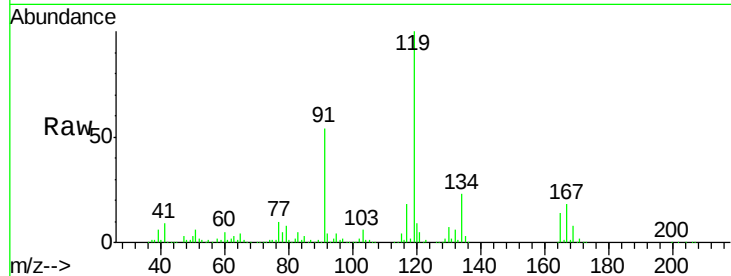
Instrument :
MSVOA_U
ClientSampleId :
VSTDCCC010EC

Tot Ion	Ratio	Lower	Upper
119	100		
91	54.9	32.2	96.6
134	23.5	17.6	26.4

Manual Integrations
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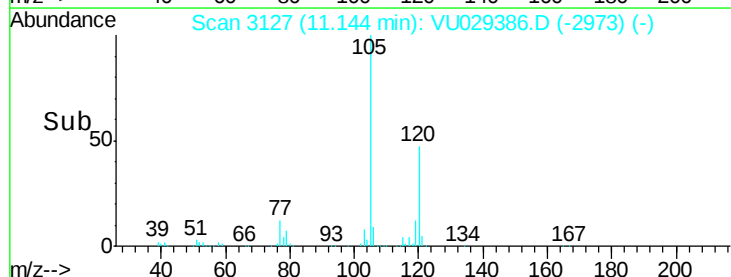
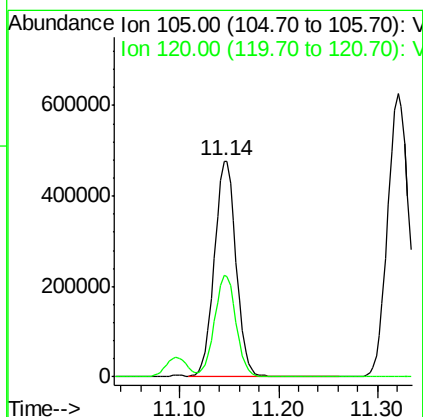
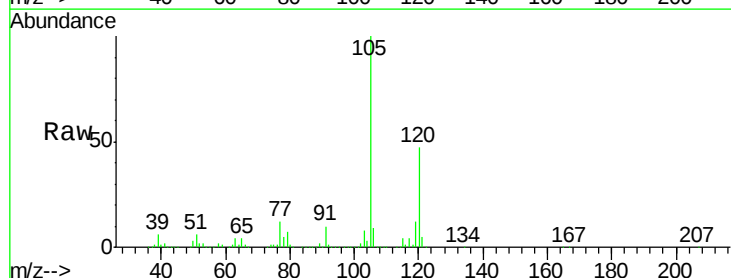
MMDadoda

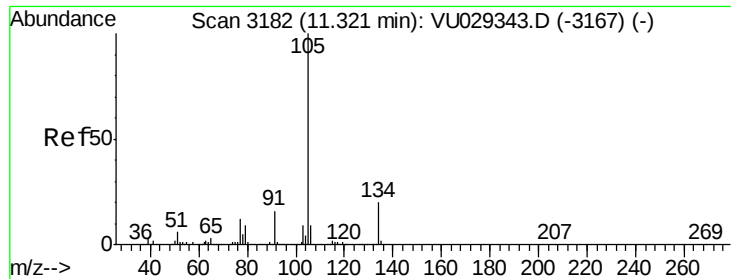
2/18/2019 12:16:07 PM



#78
1,2,4-Trimethylbenzene
Concen: 11.196 ug/l
RT: 11.14 min Scan# 3127
Delta R.T. -0.00 min
Lab File: VU029386.D
Acq: 08 Feb 2019 19:58

Tgt Ion	Ratio	Lower	Upper
105	100		
120	46.4	21.4	64.3





#79

sec-Butylbenzene

Concen: 11.210 ug/l

RT: 11.32 min Scan# 3182

Delta R.T. -0.00 min

Lab File: VU029386.D

Acq: 08 Feb 2019 19:58

Instrument :

MSVOA_U

ClientSampleId :

VSTDCCC010EC

Tot Ion: 105 Resp: 942357

Ion Ratio Lower Upper

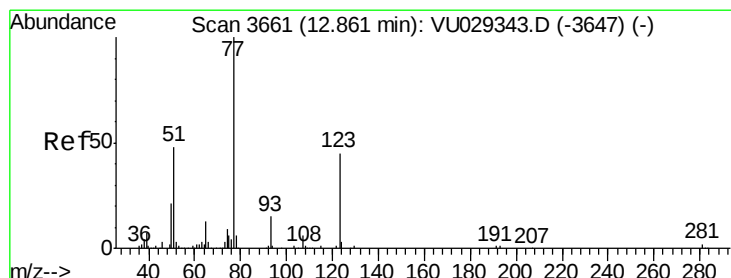
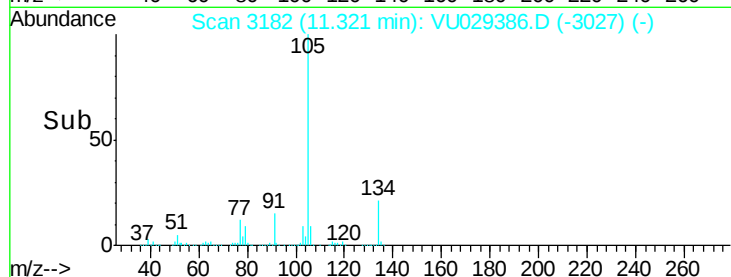
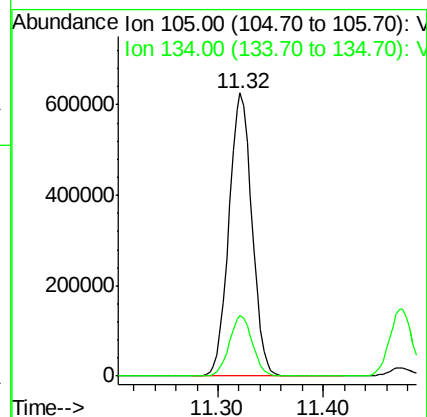
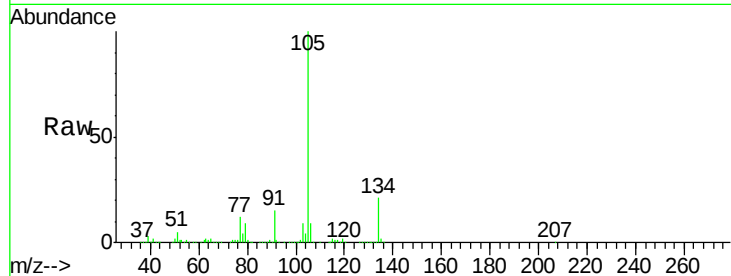
105 100

134 21.5 15.0 22.6

Manual Integrations
APPROVED

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#80

Nitrobenzene

Concen: 39.103 ug/l

RT: 12.86 min Scan# 3661

Delta R.T. -0.00 min

Lab File: VU029386.D

Acq: 08 Feb 2019 19:58

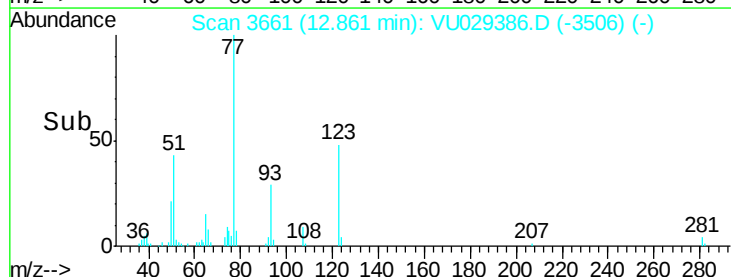
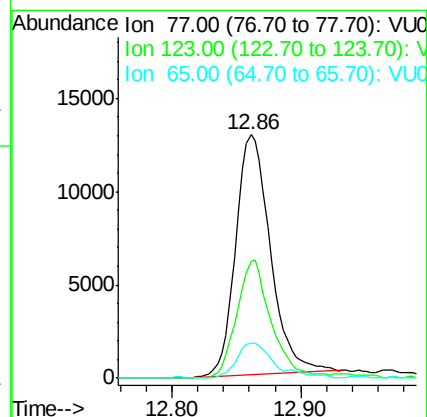
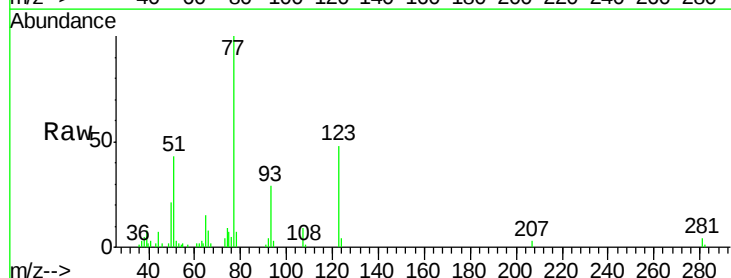
Tgt Ion: 77 Resp: 24216

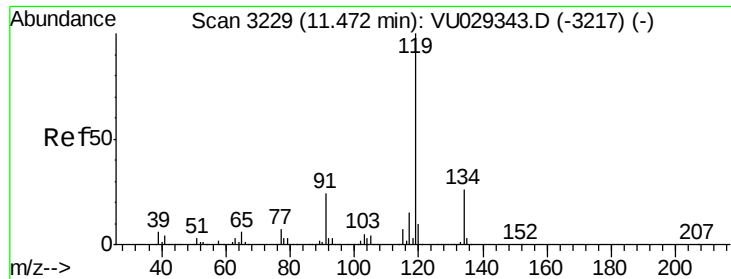
Ion Ratio Lower Upper

77 100

123 46.3 17.5 61.9

65 14.3 10.8 13.8#





#81
p-Isopropyltoluene
Concen: 11.434 ug/l
RT: 11.47 min Scan# 3229
Delta R.T. -0.00 min
Lab File: VU029386.D
Acq: 08 Feb 2019 19:58

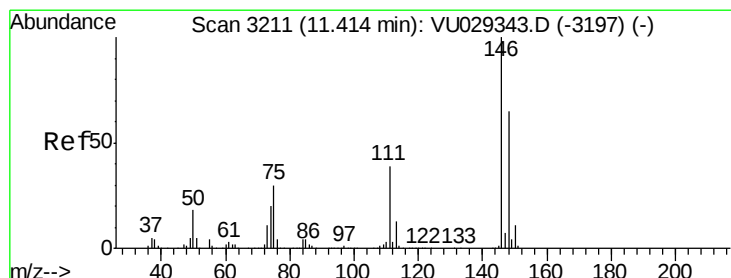
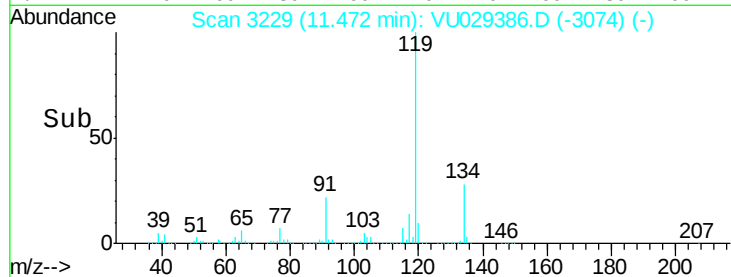
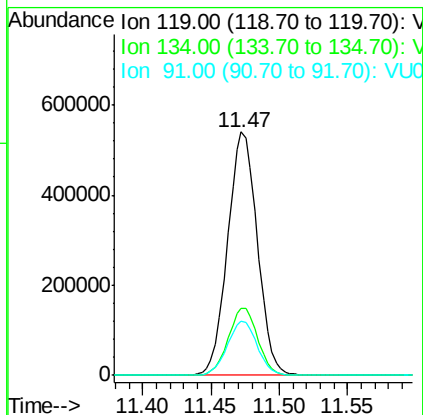
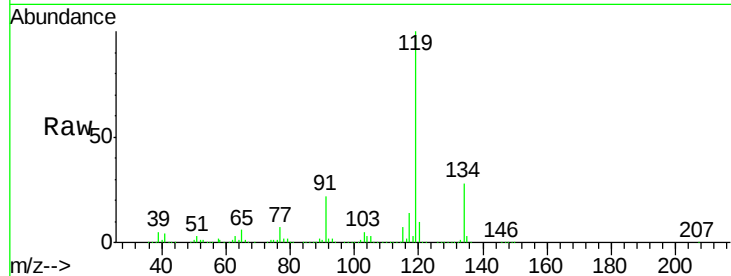
Instrument :
MSVOA_U
ClientSampleId :
VSTDCCC010EC

Tot Ion	Ratio	Lower	Upper
119	100		
134	27.6	19.8	29.6
91	22.4	21.5	32.3

Manual Integrations
APPROVED

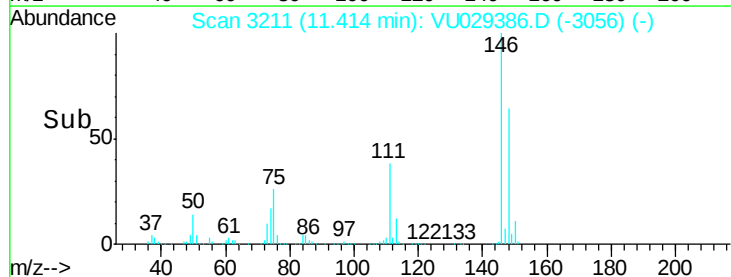
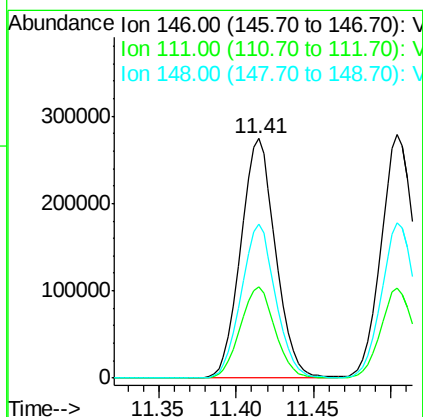
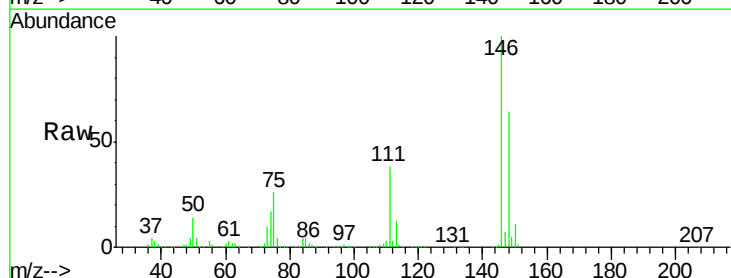
MMDadoda

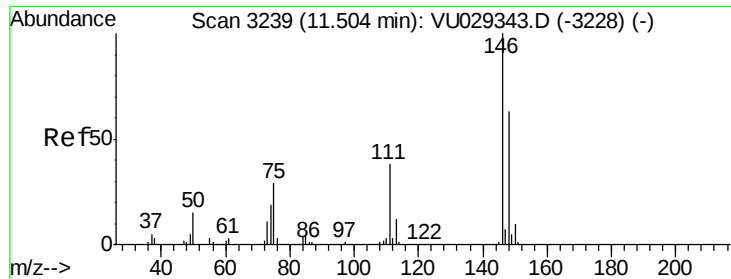
2/18/2019 12:16:07 PM



#82
1,3-Dichlorobenzene
Concen: 12.005 ug/l
RT: 11.41 min Scan# 3211
Delta R.T. -0.00 min
Lab File: VU029386.D
Acq: 08 Feb 2019 19:58

Tgt Ion	Ratio	Lower	Upper
146	100		
111	37.8	34.1	51.1
148	63.5	52.3	78.5





#83
 1,4-Dichlorobenzene
 Concen: 12.019 ug/l
 RT: 11.50 min Scan# 3239
 Delta R.T. -0.00 min
 Lab File: VU029386.D
 Acq: 08 Feb 2019 19:58

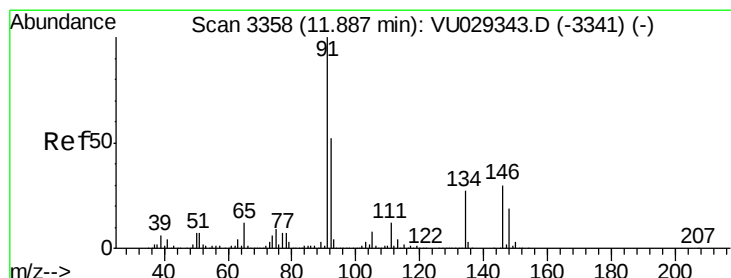
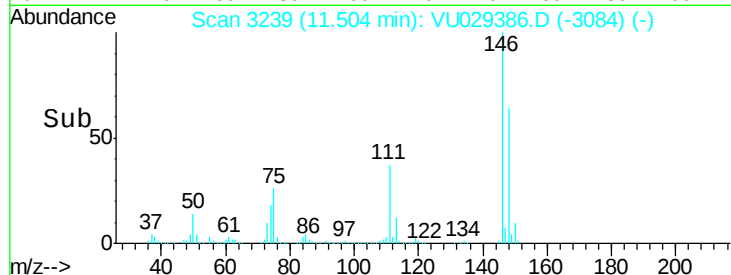
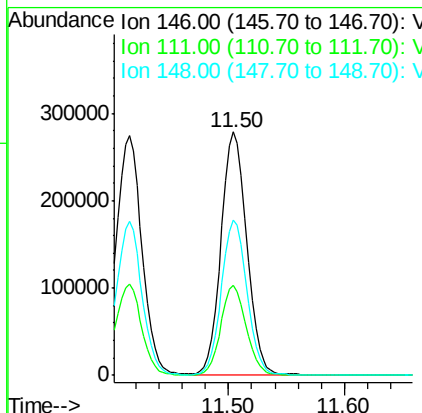
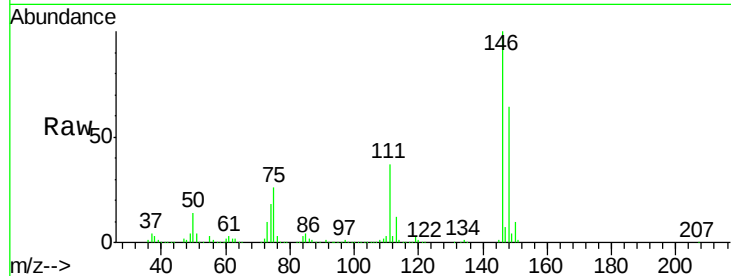
Instrument :
 MSVOA_U
 ClientSampleId :
 VSTDCCC010EC

Tot Ion:	146	Resp:	429134
Ion Ratio	Lower	Upper	
146	100		
111	36.6	32.9	49.3
148	63.6	51.8	77.6

Manual Integrations
 APPROVED

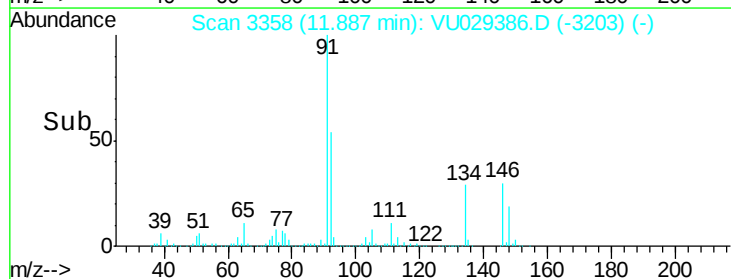
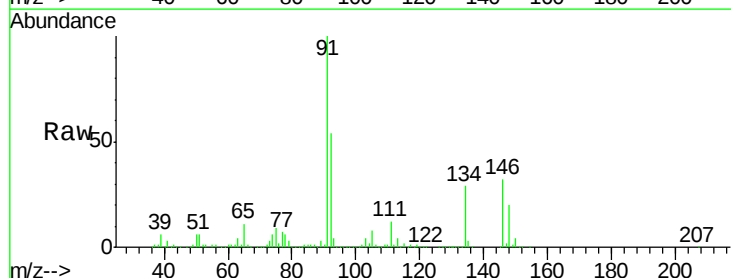
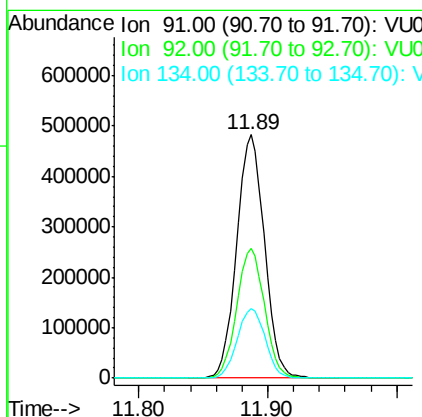
MMDadoda

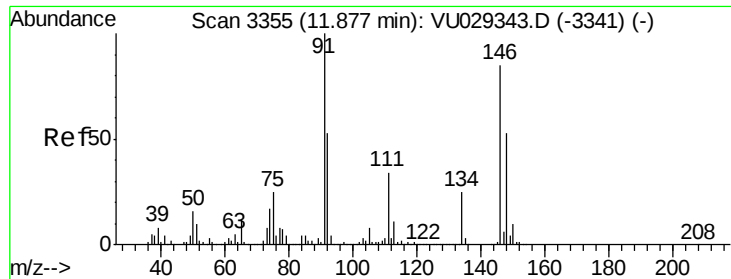
2/18/2019 12:16:07 PM



#84
 n-Butylbenzene
 Concen: 11.059 ug/l
 RT: 11.89 min Scan# 3358
 Delta R.T. -0.00 min
 Lab File: VU029386.D
 Acq: 08 Feb 2019 19:58

Tgt Ion:	91	Resp:	723172
Ion Ratio	Lower	Upper	
91	100		
92	53.2	41.0	61.6
134	29.0	19.1	28.7#





#85
 1,2-Dichlorobenzene
 Concen: 11.986 ug/l
 RT: 11.88 min Scan# 3355
 Delta R.T. -0.00 min
 Lab File: VU029386.D
 Acq: 08 Feb 2019 19:58

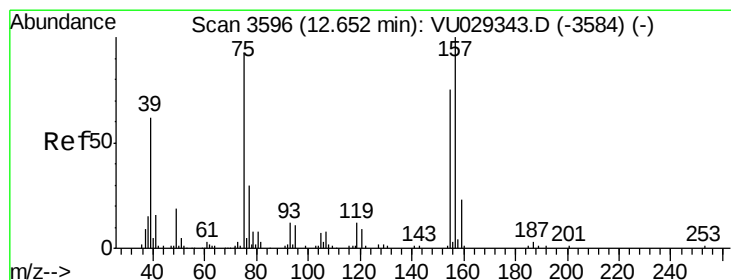
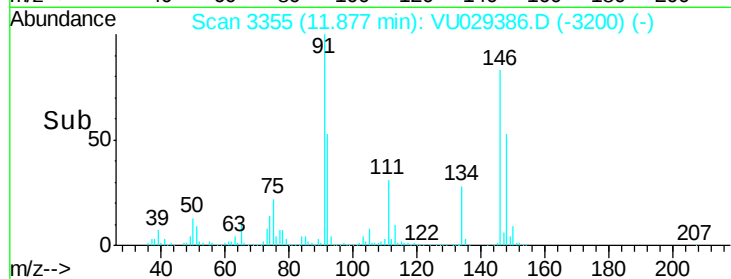
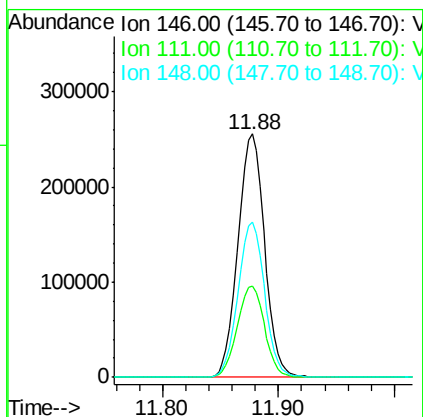
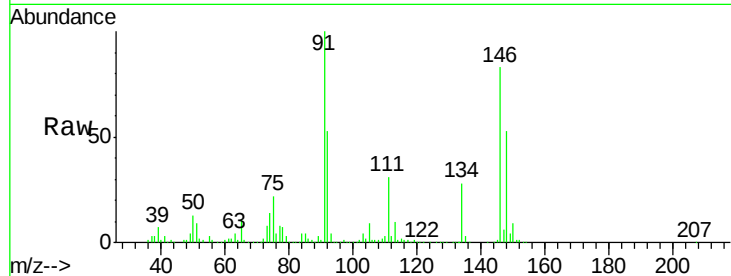
Instrument :
 MSVOA_U
 ClientSampleId :
 VSTDCCC010EC

Tot Ion	Ratio	Lower	Upper
146	100		
111	38.5	21.9	65.8
148	63.6	31.8	95.3

Manual Integrations
 APPROVED

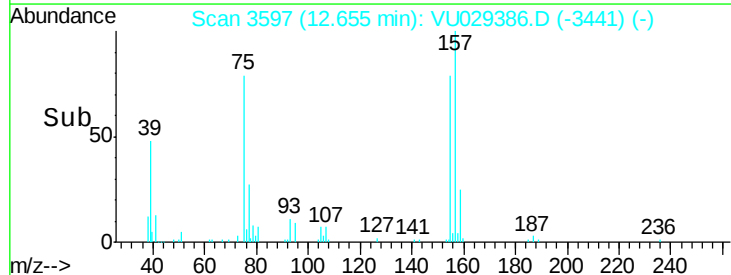
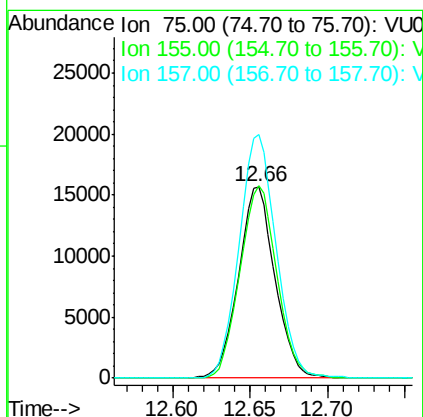
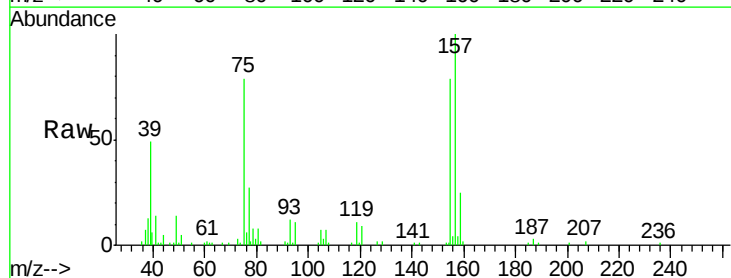
MMDadoda

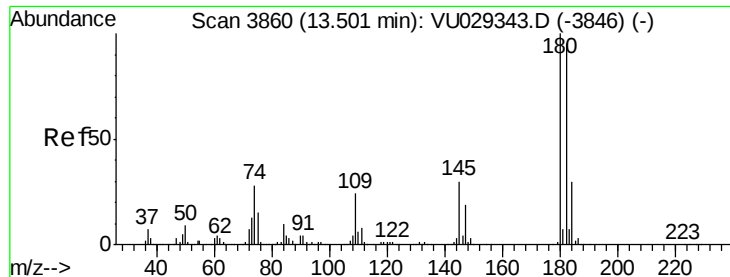
2/18/2019 12:16:07 PM



#86
 1,2-Dibromo-3-Chloropropane
 Concen: 9.878 ug/l
 RT: 12.66 min Scan# 3597
 Delta R.T. 0.00 min
 Lab File: VU029386.D
 Acq: 08 Feb 2019 19:58

Tgt Ion	Ratio	Lower	Upper
75	100		
155	102.0	53.8	80.8#
157	129.5	69.2	103.8#





#87

1,2,4-Trichlorobenzene

Concen: 12.950 ug/l

RT: 13.50 min Scan# 3860

Delta R.T. -0.00 min

Lab File: VU029386.D

Acq: 08 Feb 2019 19:58

Instrument :

MSVOA_U

ClientSampleId :

VSTDCCC010EC

Tot Ion:180 Resp: 308346

Ion Ratio Lower Upper

180 100

182 94.6 76.6 114.8

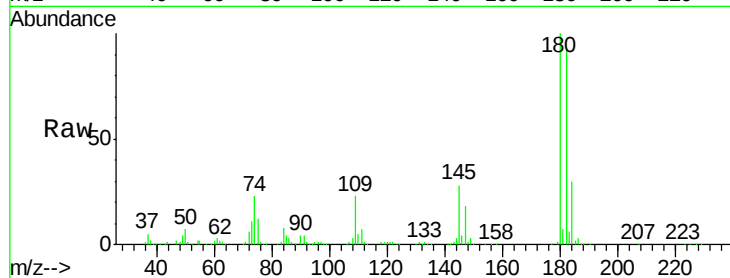
145 28.1 24.6 36.8

Manual Integrations

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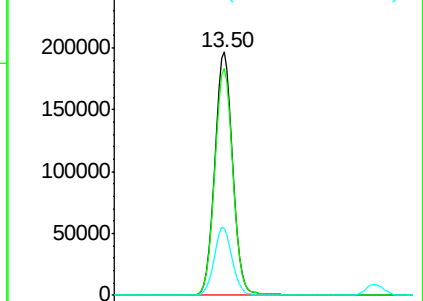
2/18/2019 12:16:07 PM



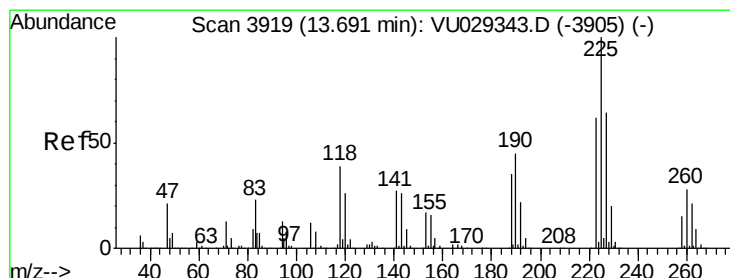
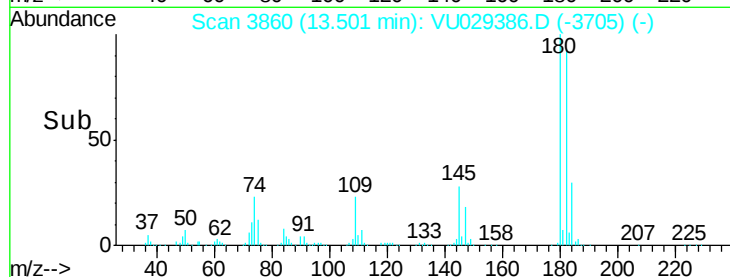
Abundance Ion 179.70 (179.40 to 180.40): V

Ion 181.80 (181.50 to 182.50): V

Ion 144.80 (144.50 to 145.50): V



Time-->



#88

Hexachlorobutadiene

Concen: 12.695 ug/l

RT: 13.69 min Scan# 3918

Delta R.T. -0.00 min

Lab File: VU029386.D

Acq: 08 Feb 2019 19:58

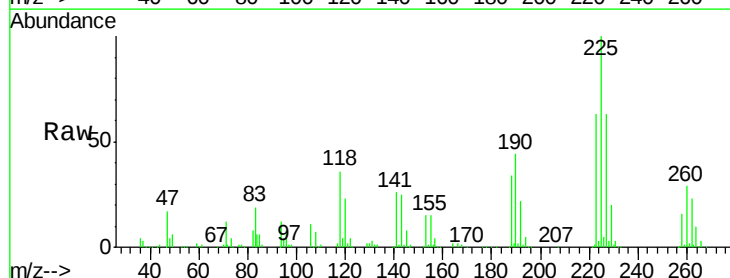
Tgt Ion:225 Resp: 175056

Ion Ratio Lower Upper

225 100

223 63.4 49.5 74.3

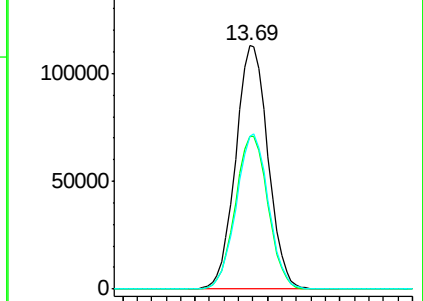
227 63.4 50.4 75.6



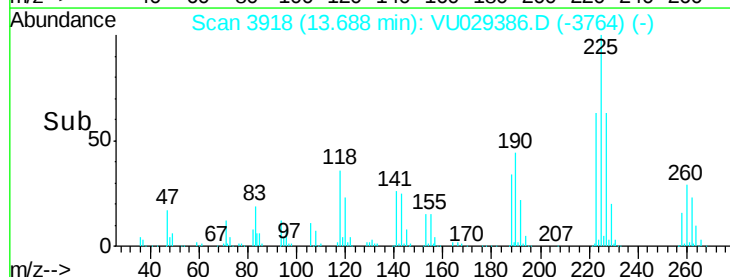
Abundance Ion 224.60 (224.30 to 225.30): V

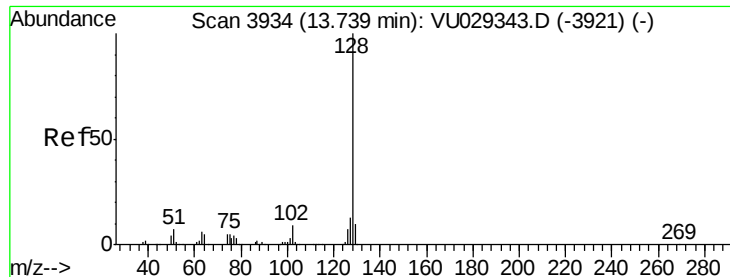
Ion 222.60 (222.30 to 223.30): V

Ion 226.60 (226.30 to 227.30): V



Time-->





#89
Naphthalene
Concen: 12.310 ug/l
RT: 13.74 min Scan# 3934
Delta R.T. -0.00 min
Lab File: VU029386.D
Acq: 08 Feb 2019 19:58

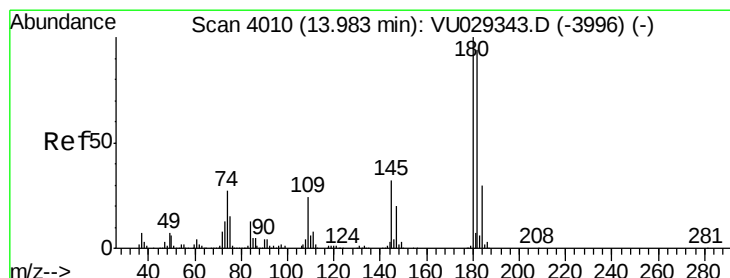
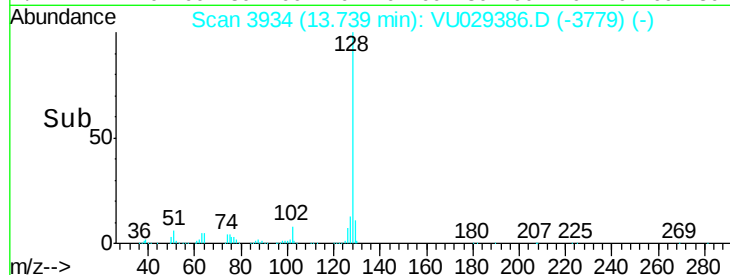
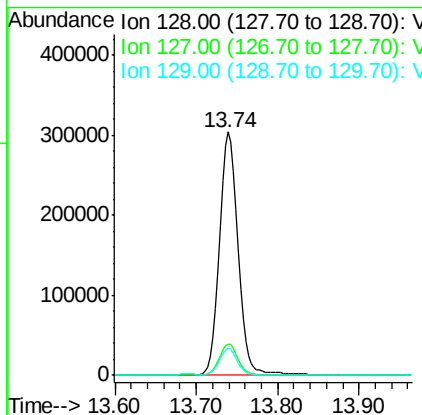
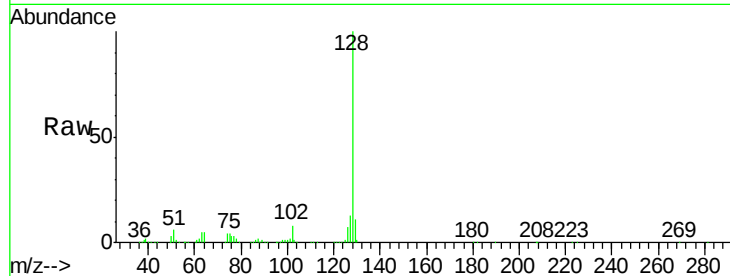
Instrument :
MSVOA_U
ClientSampleId :
VSTDCCC010EC

Tot Ion	Ion	Ratio	Resp	Lower	Upper
128	100		497088		
127	12.9	10.7	16.1		
129	10.5	8.2	12.4		

Manual Integrations
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2/18/2019 12:16:07 PM



#90
1,2,3-Trichlorobenzene
Concen: 12.517 ug/l
RT: 13.98 min Scan# 4010
Delta R.T. -0.00 min
Lab File: VU029386.D
Acq: 08 Feb 2019 19:58

Tgt Ion	Ion	Ratio	Resp	Lower	Upper
180	100		272369		
182	95.5	78.0	117.0		
145	30.1	26.6	39.8		

