

Data Path : Z:\VOASRV\HPCHEM1\MSVOA_U\DATA\VU031419\
 Data File : VU030013.D
 Acq On : 12 Mar 2019 18:07
 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

3/13/2019 12:56:41 PM

Quant Time: Mar 13 06:52:42 2019

Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_U\METHOD\524U031419DW.M

Quant Title : METHOD 524.2 VOLATILES DRINKING WATER

QLast Update : Wed Mar 13 04:21:52 2019

Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
-----	-----	-----	-----	-----	-----	-----
1) Fluorobenzene	5.74	96	62178	1.00	ug/l	0.00
System Monitoring Compounds						
57) 4-Bromofluorobenzene	10.31	95	23646	1.05	ug/l	0.00
Spiked Amount 1.000			Recovery	=	105.00%	
68) 1,2-Dichlorobenzene-d4	11.86	152	27225	1.06	ug/l	0.00
Spiked Amount 1.000			Recovery	=	106.00%	
Target Compounds						
						Qvalue
2) Dichlorodifluoromethane	1.20	85	225861	9.905	ug/l	99
3) Chloromethane	1.33	50	246940	9.545	ug/l	97
4) Vinyl Chloride	1.40	62	221518	9.990	ug/l	100
5) Bromomethane	1.62	94	120951	9.544	ug/l	98
6) Chloroethane	1.70	64	128295	10.022	ug/l	99
7) Trichlorofluoromethane	1.88	101	284975	9.907	ug/l	98
8) 1,1,2-Trichloro-1,2,2-trif	2.29	101	154796	9.893	ug/l	99
9) 1,1-Dichloroethene	2.28	96	155513	10.024	ug/l	99
10) Iodomethane	2.41	142	159460	11.863	ug/l	99
11) Allyl Chloride	2.59	41	213486	9.731	ug/l	99
12) Acrylonitrile	2.93	53	65647	19.537	ug/l	99
13) Acetone	2.32	43	126144	43.123	ug/l	100
14) Carbon Disulfide	2.48	76	520276	9.625	ug/l	99
15) Methylene Chloride	2.70	84	174894	9.468	ug/l	98
16) trans-1,2-Dichloroethene	2.98	96	174607	9.747	ug/l	99
17) 1,1-Dichloroethane	3.44	63	300172	9.911	ug/l	99
18) 2-Butanone	4.27	43	207837	51.319	ug/l	98
19) Cyclohexane	4.99	56	265534m	10.233	ug/l	
20) Methylcyclohexane	6.41	83	299157	10.447	ug/l	99
21) 2,2-Dichloropropane	4.22	77	238870	9.379	ug/l	100
22) cis-1,2-Dichloroethene	4.22	96	197483	9.916	ug/l	99
23) Diethyl Ether	2.10	59	115695	9.981	ug/l	99
24) tert-Butyl Alcohol	2.83	59	121892	98.258	ug/l	98
25) Methyl tert-Butyl Ether	3.00	73	393321	10.039	ug/l	99
26) Bromochloromethane	4.54	128	86214	9.895	ug/l	99
27) Chloroform	4.67	83	307157	9.639	ug/l	99
28) 1,1,1-Trichloroethane	4.91	97	266600	10.168	ug/l	99
29) 1,1-Dichloropropene	5.13	75	238393	9.987	ug/l	99
30) Carbon Tetrachloride	5.13	117	236042	10.071	ug/l	100
31) Isopropyl Ether	3.57	45	437734	10.270	ug/l	99
32) Ethyl-t-butyl ether	4.07	59	422926	10.299	ug/l	99
33) Tert-Amyl methyl ether	5.58	73	392315	10.437	ug/l	99
34) Propionitrile	4.33	54	65157	57.716	ug/l #	94
35) Benzene	5.38	78	705001	10.095	ug/l	99
36) 1,2-Dichloroethane	5.40	62	182841	9.792	ug/l	100
37) Trichloroethene	6.18	130	200127	9.949	ug/l	99
38) 1,2-Dichloropropane	6.43	63	177776	10.014	ug/l	97
39) Methacrylonitrile	4.55	41	50315	10.220	ug/l #	93
40) Methyl acrylate	4.42	55	83280	10.706	ug/l	97
41) Tetrahydrofuran	4.65	42	52342	19.222	ug/l	98
42) 1-Chlorobutane	5.06	56	318663	10.193	ug/l	99

Data Path : Z:\VOASRV\HPCHEM1\MSVOA_U\DATA\VU031419\
 Data File : VU030013.D
 Acq On : 12 Mar 2019 18:07
 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

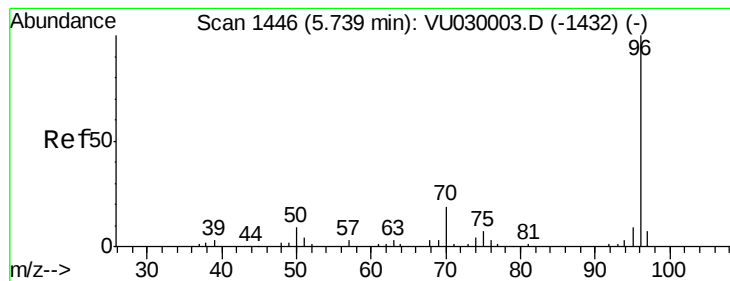
MMDadoda

3/13/2019 12:56:41 PM

Quant Time: Mar 13 06:52:42 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_U\METHOD\524U031419DW.M
 Quant Title : METHOD 524.2 VOLATILES DRINKING WATER
 QLast Update : Wed Mar 13 04:21:52 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
43) Dibromomethane	6.56	93	90437	9.846	ug/l	99
44) Bromodichloromethane	6.75	83	224796	10.259	ug/l	99
45) 4-Methyl-2-Pentanone	7.46	43	481253	53.034	ug/l	99
46) t-1,4-Dichloro-2-butene	10.51	75	88045m	19.800	ug/l	
47) Methyl methacrylate	6.62	69	168729	21.929	ug/l	98
48) Ethyl methacrylate	8.02	69	166157	11.450	ug/l	99
49) Toluene	7.63	92	444932	10.574	ug/l	98
50) t-1,3-Dichloropropene	7.88	75	210912	10.749	ug/l	100
51) cis-1,3-Dichloropropene	7.27	75	257664	10.446	ug/l	100
52) 1,1,2-Trichloroethane	8.06	97	135159	10.409	ug/l	99
53) 1,3-Dichloropropane	8.24	76	221417	10.196	ug/l	99
54) 2-Hexanone	8.36	43	336692	51.497	ug/l	99
55) Dibromochloromethane	8.47	129	165037	10.566	ug/l	99
56) 1,2-Dibromoethane	8.58	107	128357	10.272	ug/l	98
58) Tetrachloroethene	8.22	164	185094	10.133	ug/l	98
59) Chlorobenzene	9.12	112	498614	10.370	ug/l	100
60) 1,1,1,2-Tetrachloroethane	9.21	131	174556	10.278	ug/l	99
61) Pentachloroethane	11.10	117	132954	10.144	ug/l	100
62) Hexachloroethane	12.14	117	139707	10.579	ug/l	99
63) Ethyl Benzene	9.25	91	844092	10.689	ug/l	100
64) m/p-Xylenes	9.37	106	674260	21.702	ug/l	99
65) o-Xylene	9.77	106	324686	10.655	ug/l	100
66) Styrene	9.79	104	550226	11.016	ug/l	99
67) Bromoform	9.95	173	98629	11.047	ug/l	97
69) Isopropylbenzene	10.16	105	851150	10.713	ug/l	100
70) 1,1,2,2-Tetrachloroethane	10.45	83	166035	10.375	ug/l	99
71) 1,2,3-Trichloropropane	10.49	75	116372m	9.673	ug/l	
72) Bromobenzene	10.45	156	217613	10.443	ug/l	99
73) n-propylbenzene	10.58	120	245984	10.913	ug/l	99
74) 2-Chlorotoluene	10.66	126	207652	10.520	ug/l	99
75) 1,3,5-Trimethylbenzene	10.77	105	730793	10.796	ug/l	100
76) 4-Chlorotoluene	10.77	126	210834	10.464	ug/l	97
77) tert-Butylbenzene	11.10	119	714778	10.788	ug/l	100
78) 1,2,4-Trimethylbenzene	11.14	105	757167	10.999	ug/l	99
79) sec-Butylbenzene	11.32	105	959536	10.811	ug/l	100
80) Nitrobenzene	12.86	77	15162	53.039	ug/l #	98
81) p-Isopropyltoluene	11.47	119	809528	10.873	ug/l	99
82) 1,3-Dichlorobenzene	11.41	146	431111	10.245	ug/l	100
83) 1,4-Dichlorobenzene	11.50	146	429759	10.159	ug/l	99
84) n-Butylbenzene	11.89	91	756308	10.876	ug/l	100
85) 1,2-Dichlorobenzene	11.87	146	400744	10.232	ug/l	99
86) 1,2-Dibromo-3-Chloropropan	12.65	75	24692	10.711	ug/l	97
87) 1,2,4-Trichlorobenzene	13.50	180	295356	10.449	ug/l	99
88) Hexachlorobutadiene	13.69	225	158304	10.333	ug/l	98
89) Naphthalene	13.74	128	509513	11.503	ug/l	100
90) 1,2,3-Trichlorobenzene	13.98	180	270434	10.560	ug/l	99

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



#1

Fluorobenzene

Concen: 1.000 ug/l

RT: 5.74 min Scan# 1446

Delta R.T. 0.00 min

Lab File: VU030013.D

Acq: 12 Mar 2019 18:07

Instrument :

MSVOA_U

ClientSampleId :

VSTDCCC010EC

Tgt Ion: 96 Resp: 62178

Ion Ratio Lower Upper

96 100

70 18.5 15.5 23.3

95 7.9 6.6 9.8

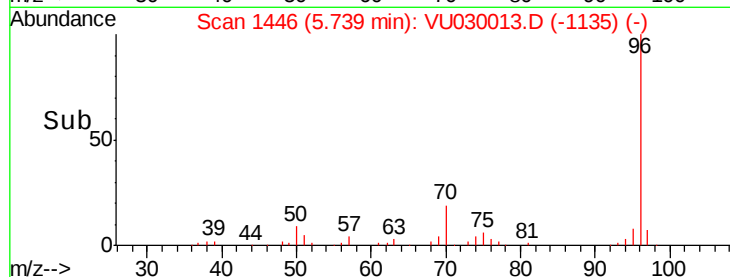
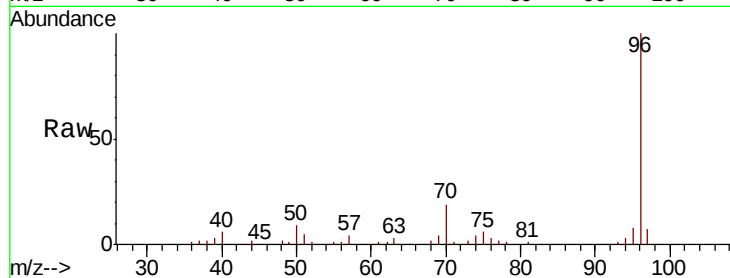
97 0.0 0.0 0.0

Manual Integrations

APPROVED

MMDadoda

3/13/2019 12:56:41 PM

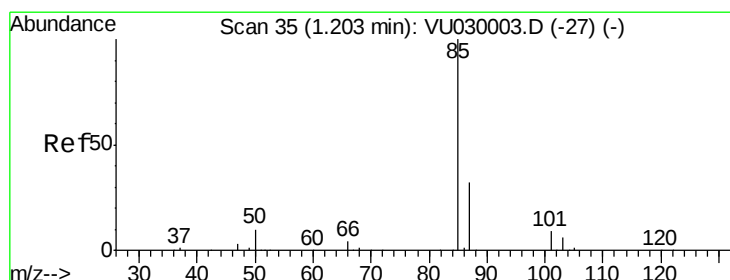
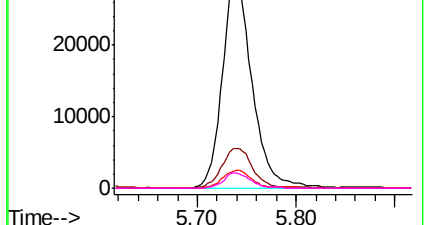


Abundance Ion 96.00 (95.70 to 96.70): VU030013.D (-1135) (-)

Ion 70.00 (69.70 to 70.70): VU030013.D (-1135) (-)

Ion 95.00 (94.70 to 95.70): VU030013.D (-1135) (-)

Ion 97.00 (96.70 to 97.70): VU030013.D (-1135) (-)



#2

Dichlorodifluoromethane

Concen: 9.905 ug/l

RT: 1.20 min Scan# 35

Delta R.T. 0.00 min

Lab File: VU030013.D

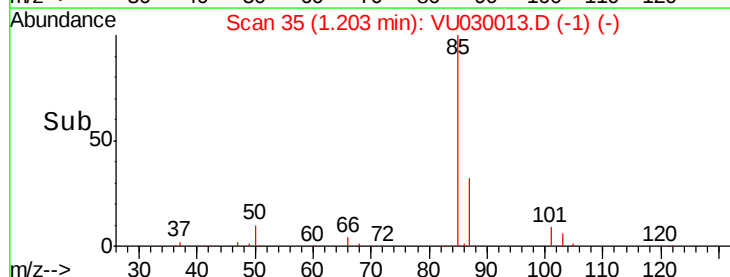
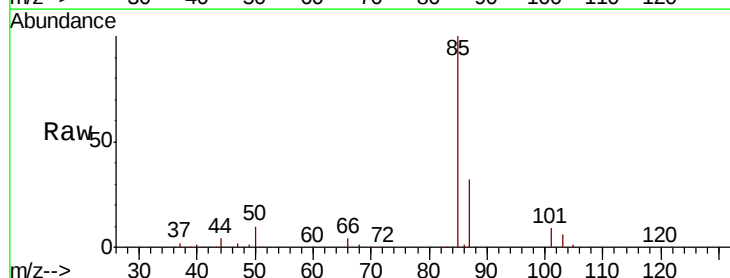
Acq: 12 Mar 2019 18:07

Tgt Ion: 85 Resp: 225861

Ion Ratio Lower Upper

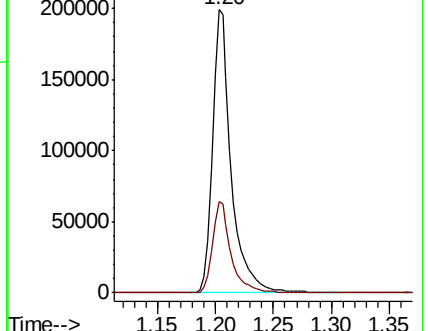
85 100

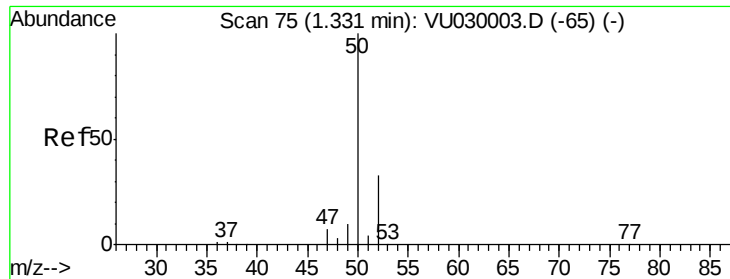
87 32.1 16.2 48.6



Abundance Ion 85.00 (84.70 to 85.70): VU030013.D (-1) (-)

Ion 87.00 (86.70 to 87.70): VU030013.D (-1) (-)





#3

Chloromethane

Concen: 9.545 ug/l

RT: 1.33 min Scan# 75

Delta R.T. 0.00 min

Lab File: VU030013.D

Acq: 12 Mar 2019 18:07

Instrument :

MSVOA_U

ClientSampleId :

VSTDCCC010EC

Tgt Ion: 50 Resp: 246940

Ion Ratio Lower Upper

50 100

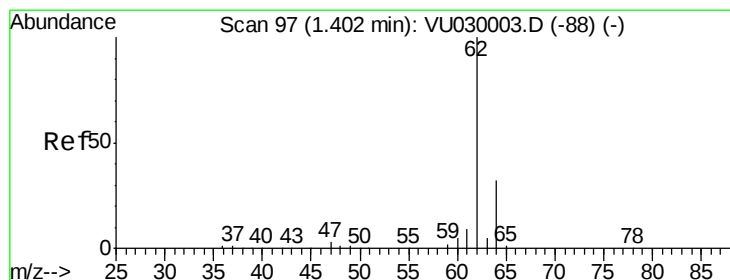
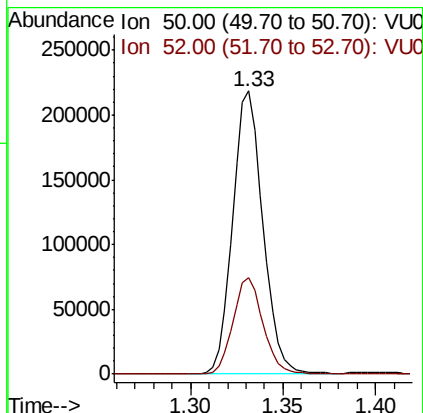
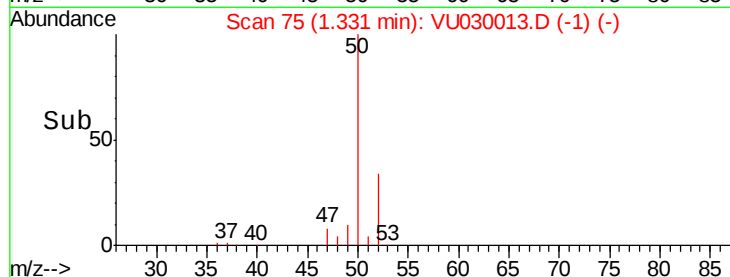
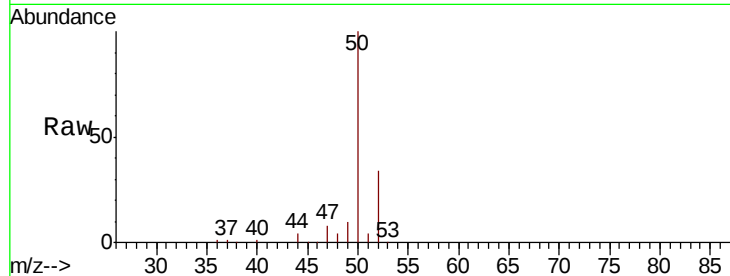
52 34.1 26.1 39.1

Manual Integrations

APPROVED

MMDadoda

3/13/2019 12:56:41 PM



#4

Vinyl Chloride

Concen: 9.990 ug/l

RT: 1.40 min Scan# 97

Delta R.T. 0.00 min

Lab File: VU030013.D

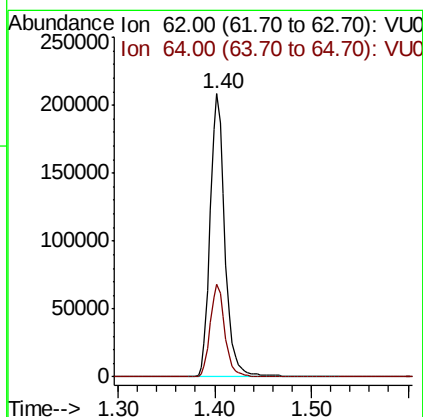
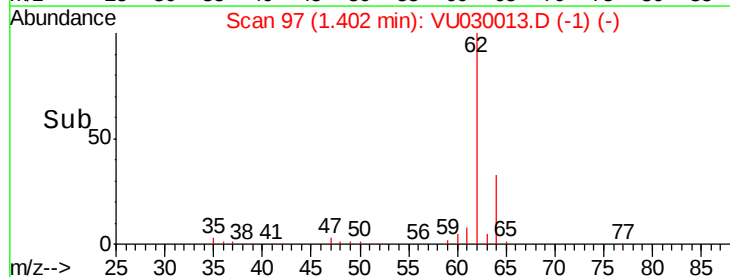
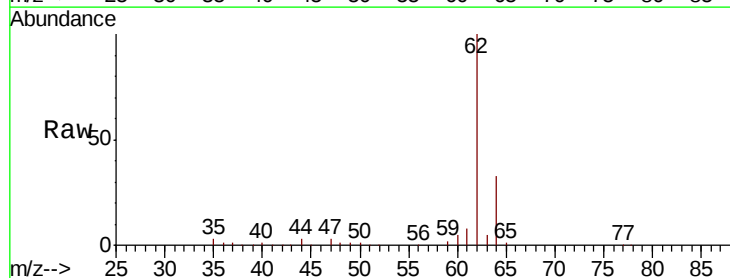
Acq: 12 Mar 2019 18:07

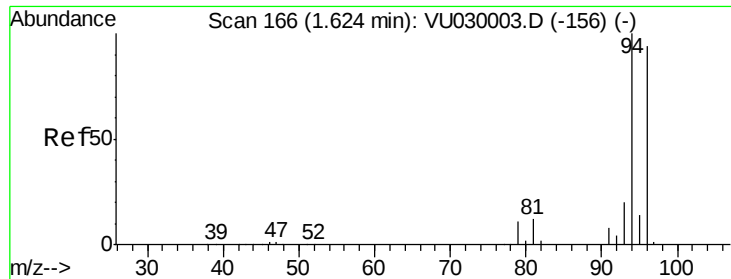
Tgt Ion: 62 Resp: 221518

Ion Ratio Lower Upper

62 100

64 32.6 26.0 39.0





#5
Bromomethane
Concen: 9.544 ug/l
RT: 1.62 min Scan# 166
Delta R.T. 0.00 min
Lab File: VU030013.D
Acq: 12 Mar 2019 18:07

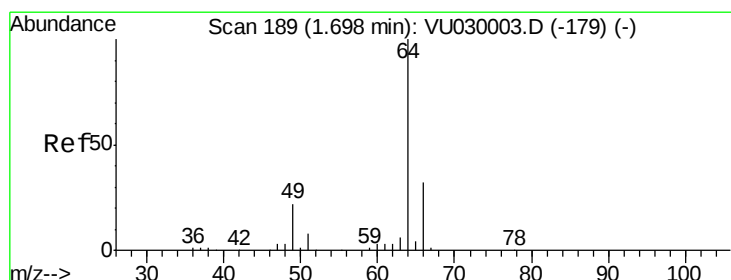
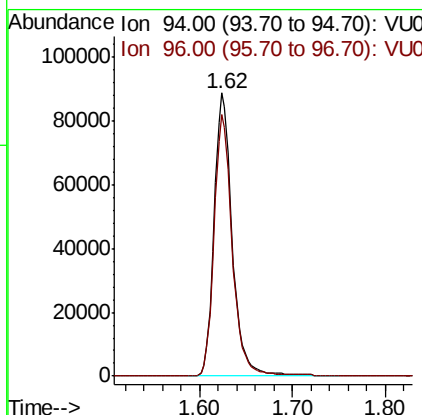
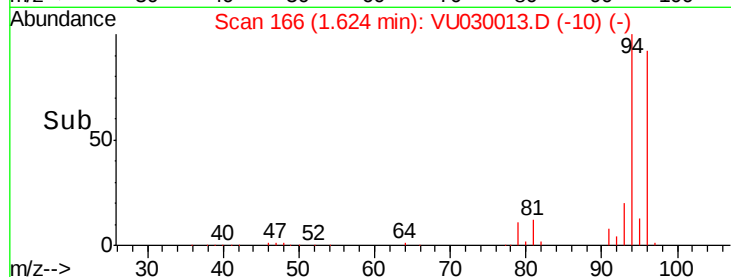
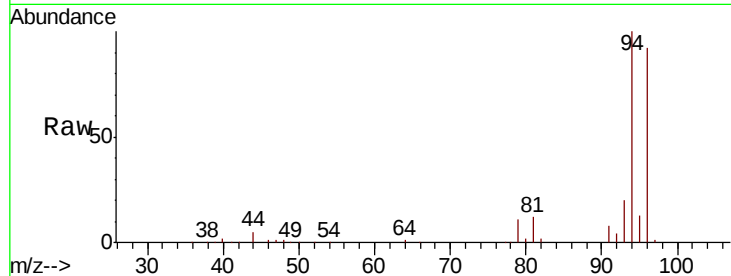
Instrument :
MSVOA_U
ClientSampleId :
VSTDCCC010EC

Tgt Ion: 94 Resp: 120951
Ion Ratio Lower Upper
94 100
96 92.4 75.2 112.8

Manual Integrations
APPROVED

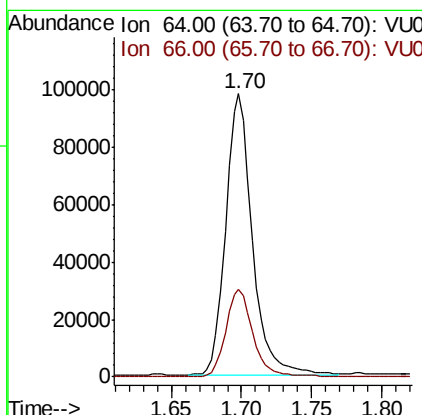
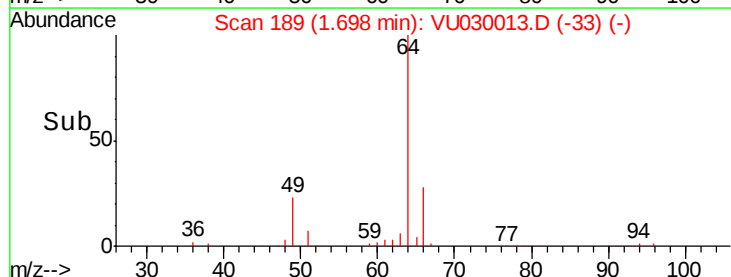
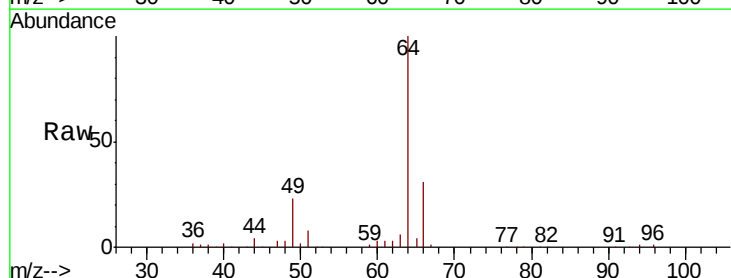
MMDadoda

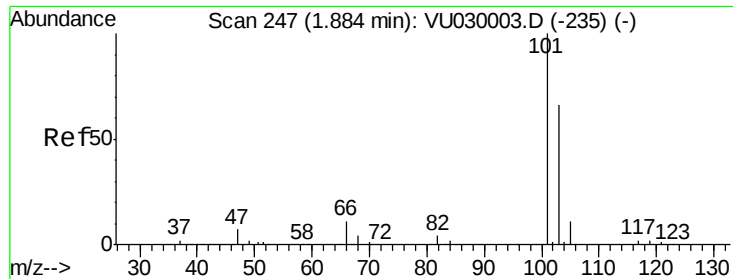
3/13/2019 12:56:41 PM



#6
Chloroethane
Concen: 10.022 ug/l
RT: 1.70 min Scan# 189
Delta R.T. 0.00 min
Lab File: VU030013.D
Acq: 12 Mar 2019 18:07

Tgt Ion: 64 Resp: 128295
Ion Ratio Lower Upper
64 100
66 31.4 25.8 38.6





#7

Trichlorofluoromethane
Concen: 9.907 ug/l
RT: 1.88 min Scan# 247
Delta R.T. 0.00 min
Lab File: VU030013.D
Acq: 12 Mar 2019 18:07

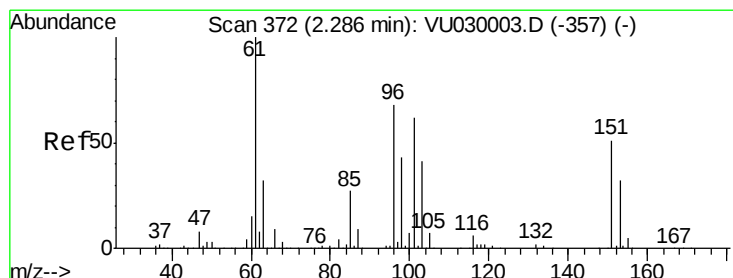
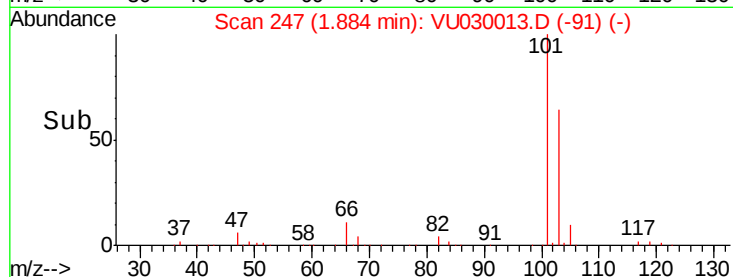
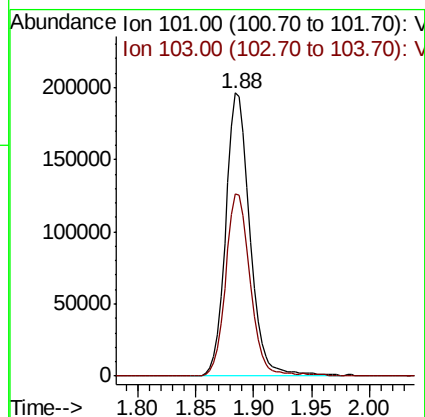
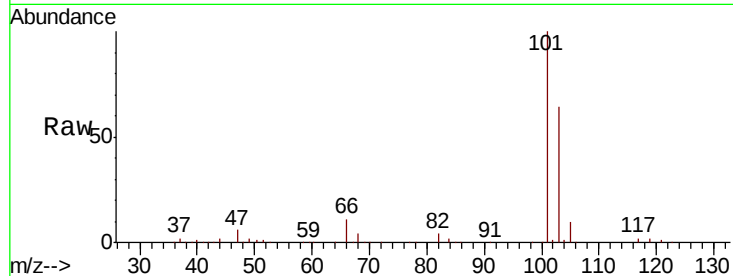
Instrument :
MSVOA_U
ClientSampleId :
VSTDCCC010EC

Tgt Ion:101 Resp: 284975
Ion Ratio Lower Upper
101 100
103 64.4 52.6 79.0

Manual Integrations
APPROVED

MMDadoda

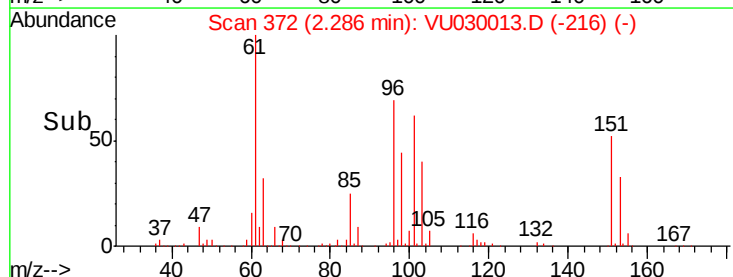
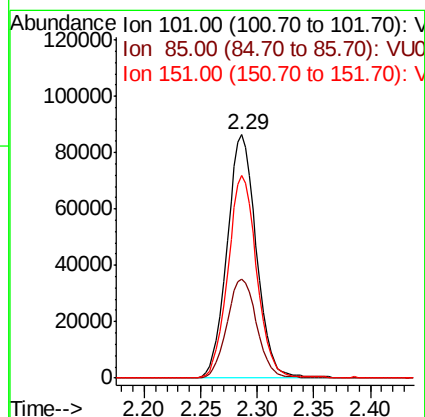
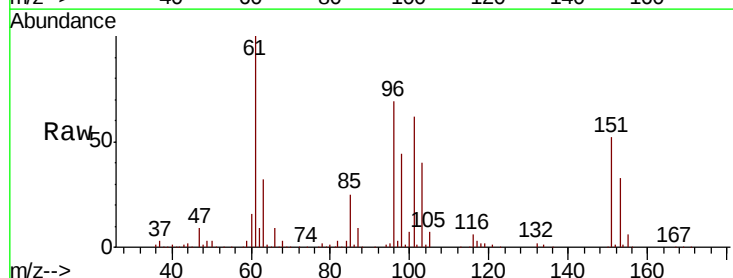
3/13/2019 12:56:41 PM

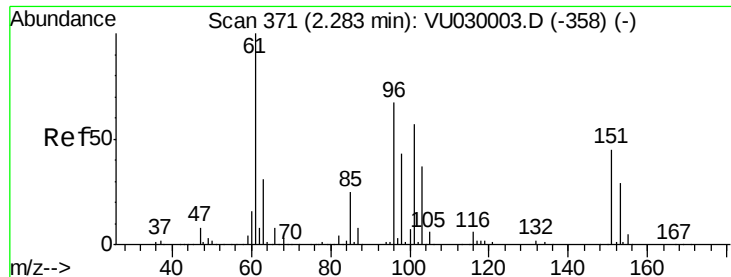


#8

1,1,2-Trichloro-1,2,2-trifluoroethane
Concen: 9.893 ug/l
RT: 2.29 min Scan# 372
Delta R.T. 0.00 min
Lab File: VU030013.D
Acq: 12 Mar 2019 18:07

Tgt Ion:101 Resp: 154796
Ion Ratio Lower Upper
101 100
85 41.2 33.6 50.4
151 82.0 65.0 97.4





#9

1,1-Dichloroethene

Concen: 10.024 ug/l

RT: 2.28 min Scan# 371

Delta R.T. 0.00 min

Lab File: VU030013.D

Acq: 12 Mar 2019 18:07

Instrument :

MSVOA_U

ClientSampleId :

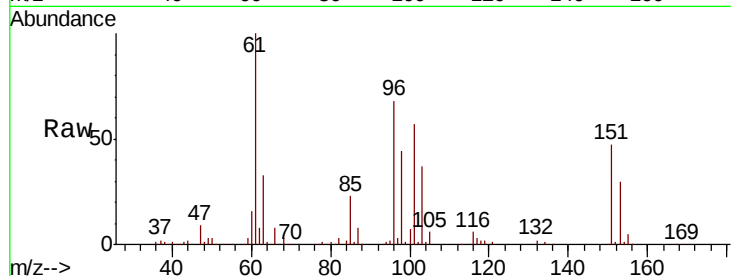
VSTDCCC010EC

Tgt Ion:	96	Resp:	155513
Ion Ratio	Lower	Upper	
96	100		
61	146.6	0.0	447.0
98	64.2	0.0	129.2

Manual Integrations
APPROVED

MMDadoda

3/13/2019 12:56:41 PM

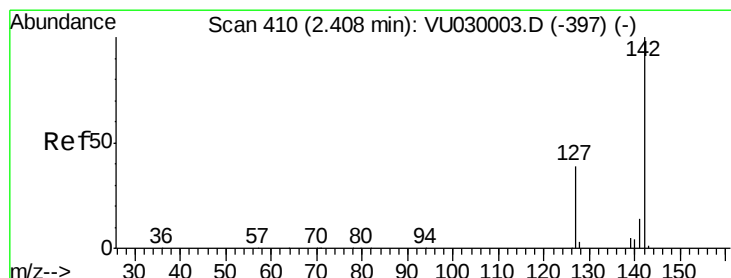
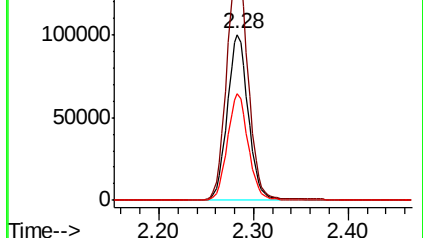
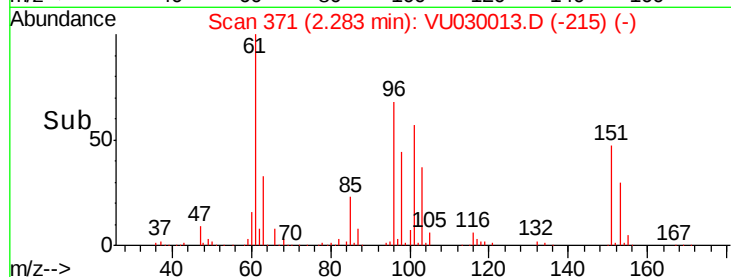


Abundance Ion 96.00 (95.70 to 96.70): VU030013.D (-215) (-)

Ion 61.00 (60.70 to 61.70): VU030013.D (-215) (-)

Ion 98.00 (97.70 to 98.70): VU030013.D (-215) (-)

Time-->



#10

Iodomethane

Concen: 11.863 ug/l

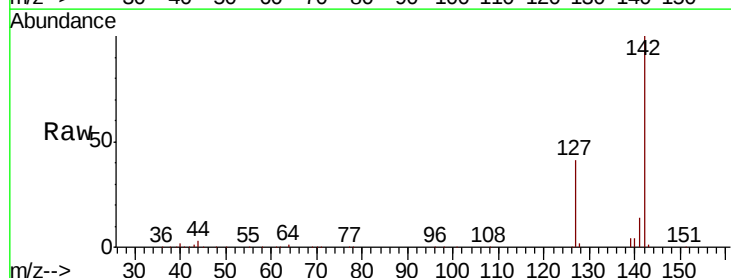
RT: 2.41 min Scan# 410

Delta R.T. 0.00 min

Lab File: VU030013.D

Acq: 12 Mar 2019 18:07

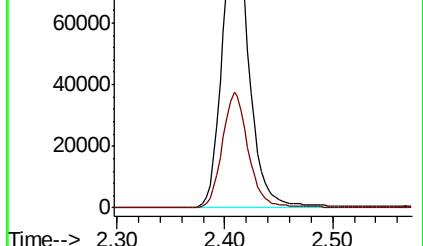
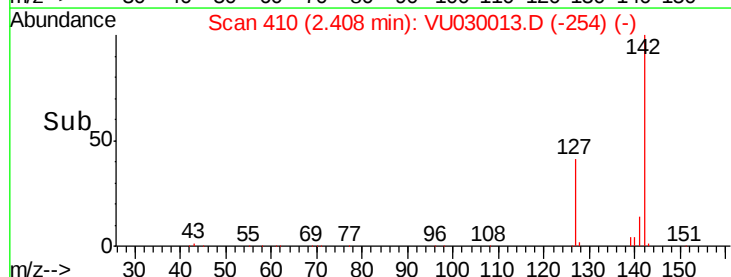
Tgt Ion:	142	Resp:	159460
Ion Ratio	Lower	Upper	
142	100		
127	39.5	32.2	48.4

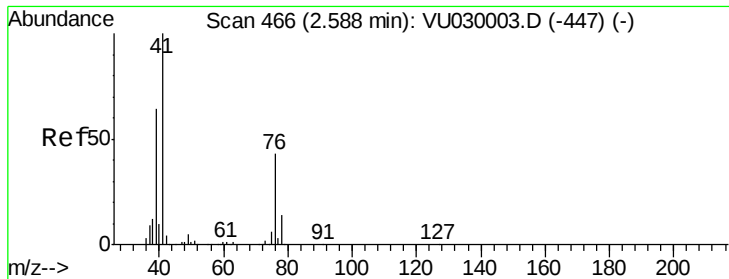


Abundance Ion 142.00 (141.70 to 142.70): VU030013.D (-254) (-)

Ion 127.00 (126.70 to 127.70): VU030013.D (-254) (-)

Time-->





#11
 Allyl Chloride
 Concen: 9.731 ug/l
 RT: 2.59 min Scan# 466
 Delta R.T. 0.00 min
 Lab File: VU030013.D
 Acq: 12 Mar 2019 18:07

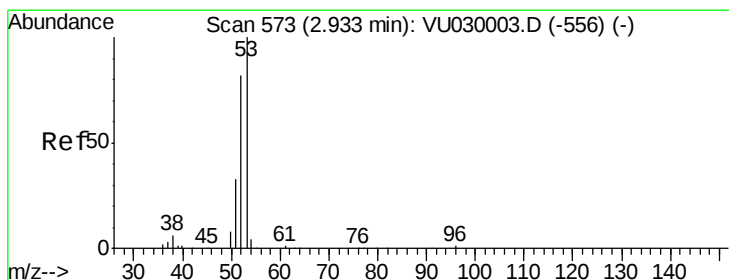
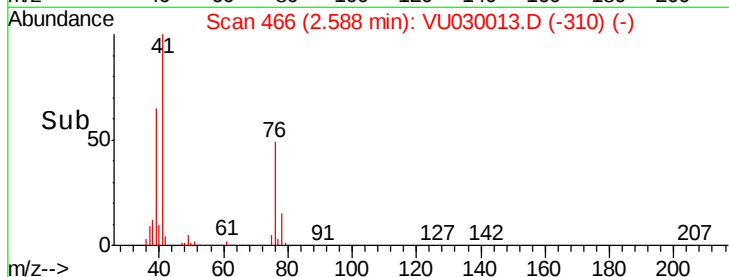
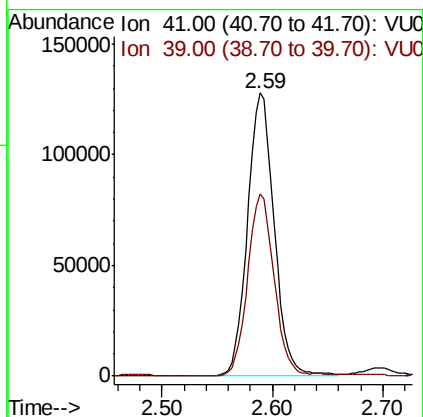
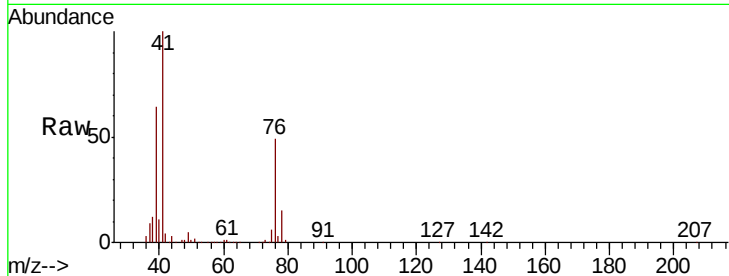
Instrument :
 MSVOA_U
 ClientSampled :
 VSTDCCC010EC

Tgt Ion: 41 Resp: 213486
 Ion Ratio Lower Upper
 41 100
 39 64.0 50.8 76.2

Manual Integrations
 APPROVED

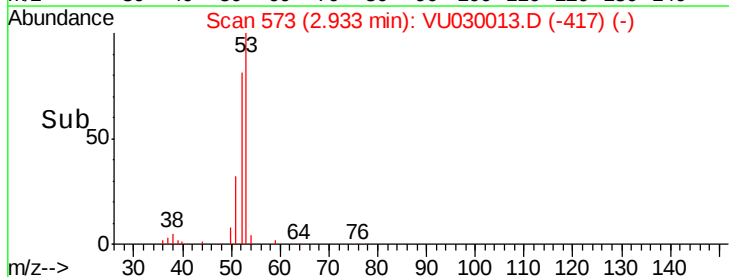
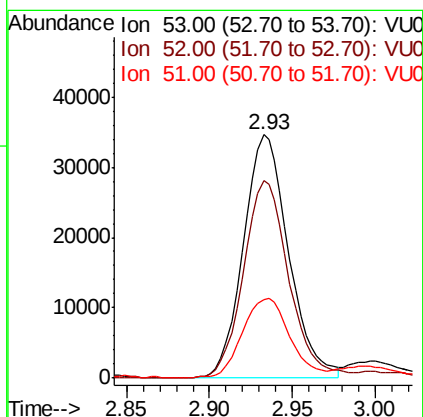
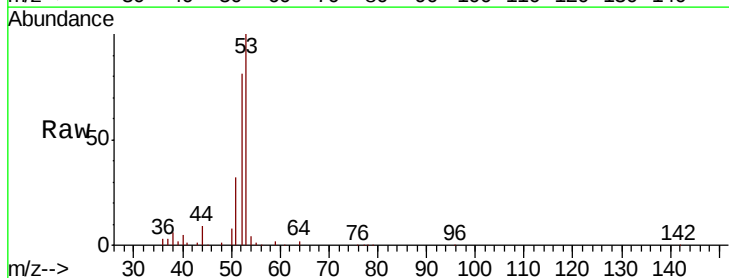
MMDadoda

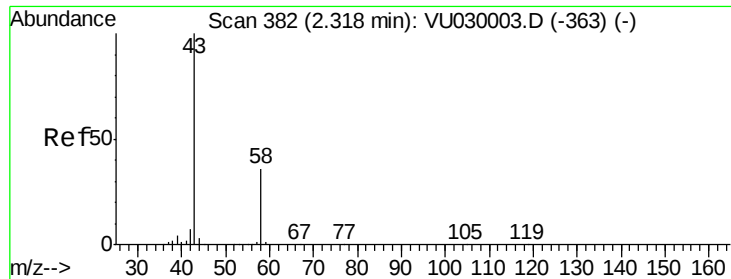
3/13/2019 12:56:41 PM



#12
 Acrylonitrile
 Concen: 19.537 ug/l
 RT: 2.93 min Scan# 573
 Delta R.T. 0.00 min
 Lab File: VU030013.D
 Acq: 12 Mar 2019 18:07

Tgt Ion: 53 Resp: 65647
 Ion Ratio Lower Upper
 53 100
 52 81.7 66.3 99.5
 51 34.4 26.9 40.3





#13
Acetone
Concen: 43.123 ug/l
RT: 2.32 min Scan# 382
Delta R.T. 0.00 min
Lab File: VU030013.D
Acq: 12 Mar 2019 18:07

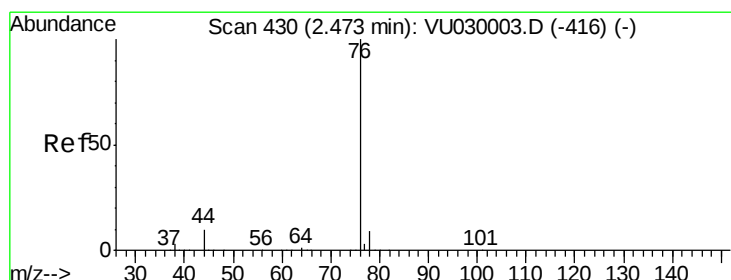
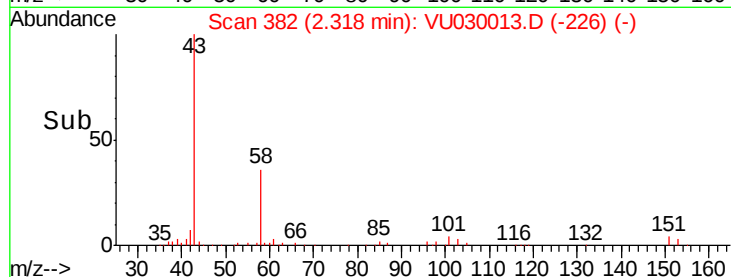
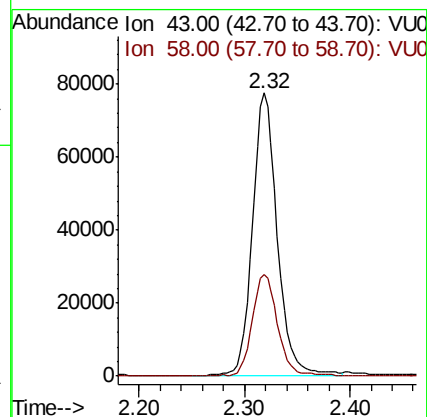
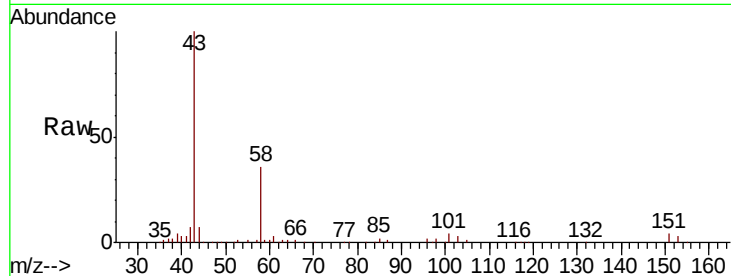
Instrument :
MSVOA_U
ClientSampleId :
VSTDCCC010EC

Tgt Ion	Ratio	Lower	Upper
43	100		
58	36.0	28.6	43.0

Manual Integrations
APPROVED

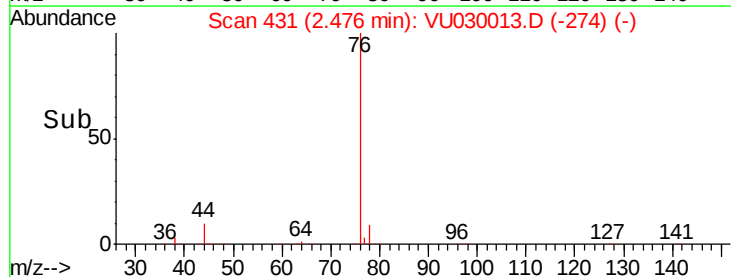
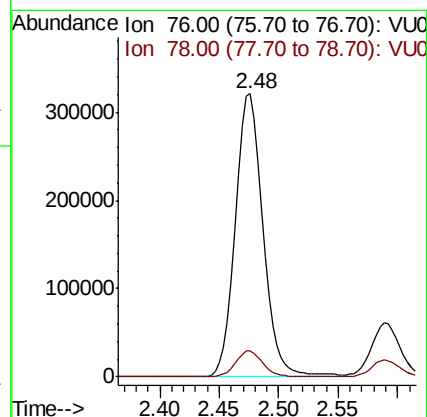
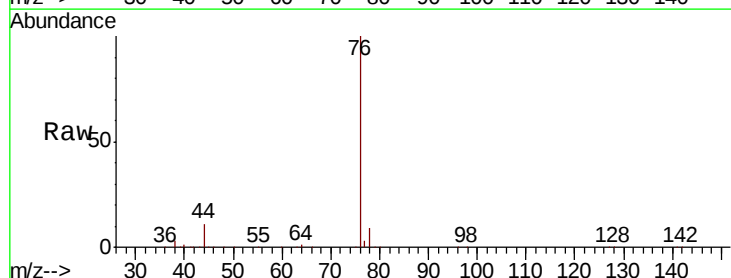
MMDadoda

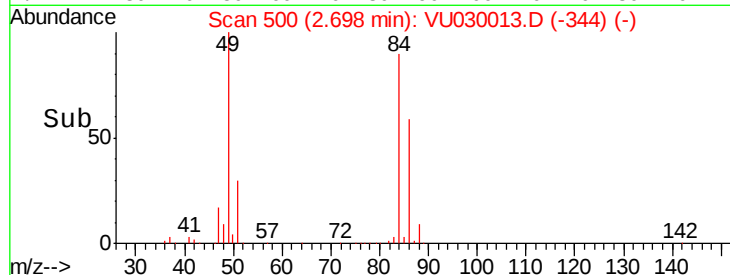
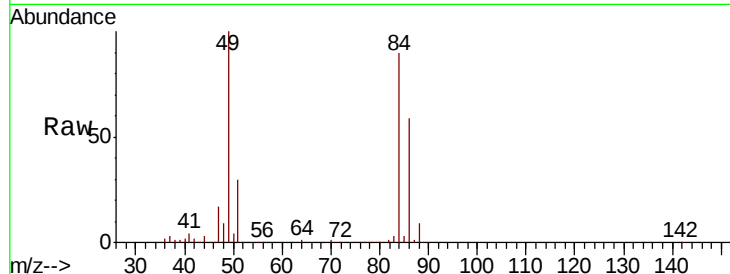
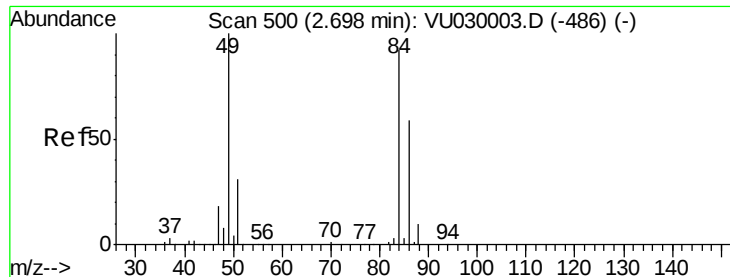
3/13/2019 12:56:41 PM



#14
Carbon Disulfide
Concen: 9.625 ug/l
RT: 2.48 min Scan# 431
Delta R.T. 0.00 min
Lab File: VU030013.D
Acq: 12 Mar 2019 18:07

Tgt Ion	Ratio	Lower	Upper
76	100		
78	9.1	7.4	11.2





#15
Methylene Chloride
Concen: 9.468 ug/l
RT: 2.70 min Scan# 500
Delta R.T. 0.00 min
Lab File: VU030013.D
Acq: 12 Mar 2019 18:07

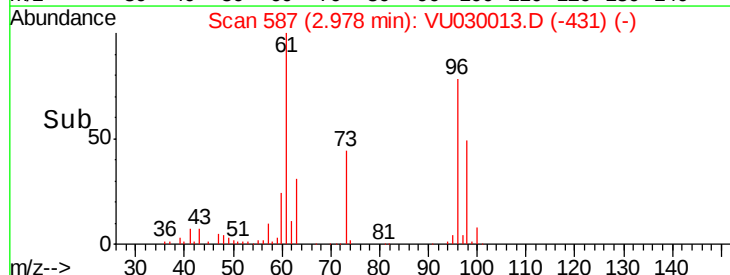
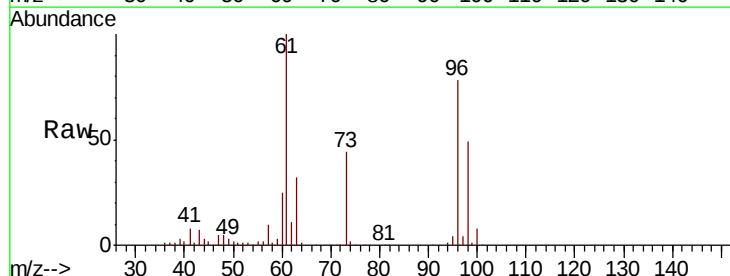
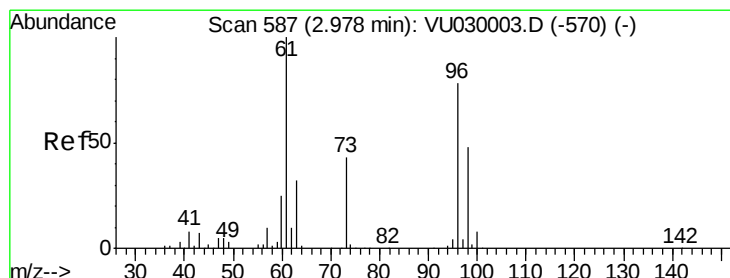
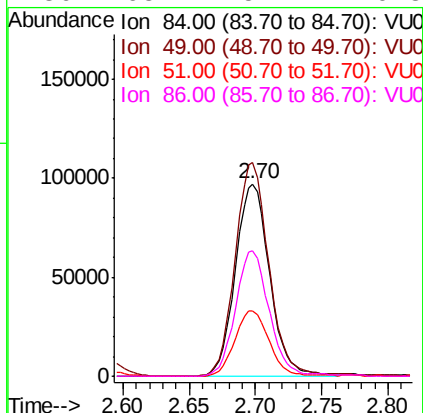
Tgt Ion:	84	Resp:	174894
Ion	Ratio	Lower	Upper
84	100		
49	111.1	86.5	129.7
51	33.8	0.0	66.8
86	65.4	51.2	76.8

Instrument :
MSVOA_U
ClientSampleId :
VSTDCCC010EC

Manual Integrations
APPROVED

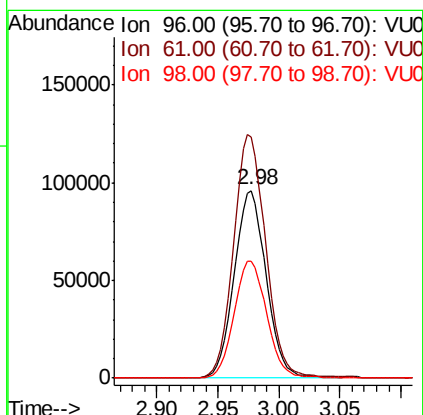
MMDadoda

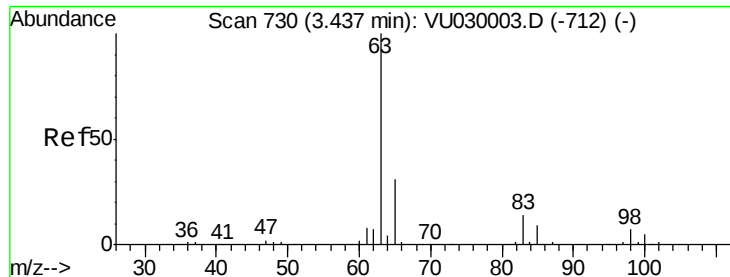
3/13/2019 12:56:41 PM



#16
trans-1,2-Dichloroethene
Concen: 9.747 ug/l
RT: 2.98 min Scan# 587
Delta R.T. 0.00 min
Lab File: VU030013.D
Acq: 12 Mar 2019 18:07

Tgt Ion:	96	Resp:	174607
Ion	Ratio	Lower	Upper
96	100		
61	128.3	103.0	154.6
98	62.4	49.5	74.3





#17
 1,1-Dichloroethane
 Concen: 9.911 ug/l
 RT: 3.44 min Scan# 730
 Delta R.T. 0.00 min
 Lab File: VU030013.D
 Acq: 12 Mar 2019 18:07

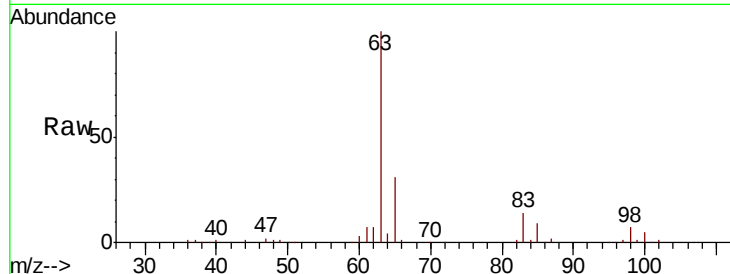
Instrument :
 MSVOA_U
 ClientSampleId :
 VSTDCCC010EC

Tgt Ion:	63	Resp:	300172
Ion	Ratio	Lower	Upper
63	100		
98	7.1	3.4	10.2
100	4.7	2.3	6.8

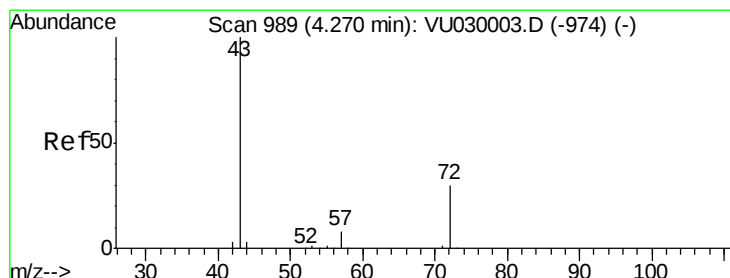
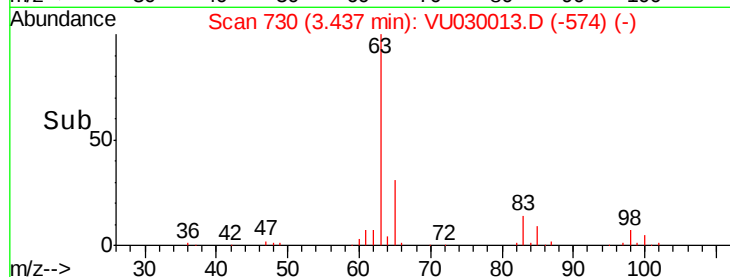
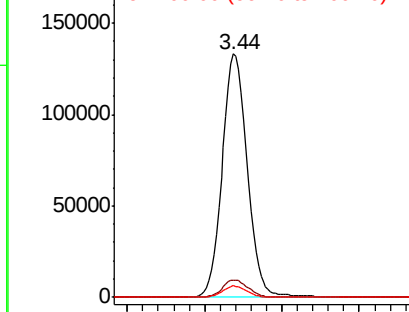
Manual Integrations
 APPROVED

MMDadoda

3/13/2019 12:56:41 PM

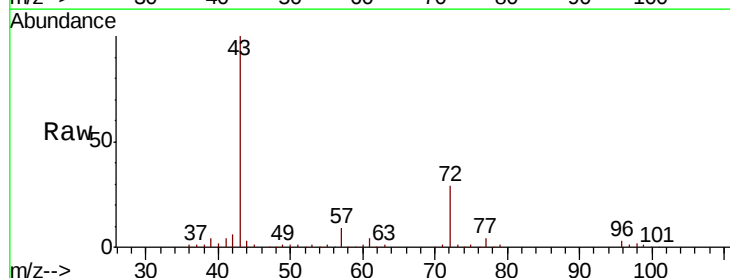


Abundance Ion 63.00 (62.70 to 63.70): VU0
 Ion 98.00 (97.70 to 98.70): VU0
 Ion 100.00 (99.70 to 100.70): VU0

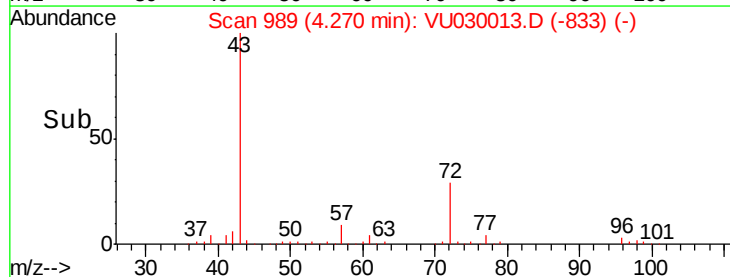
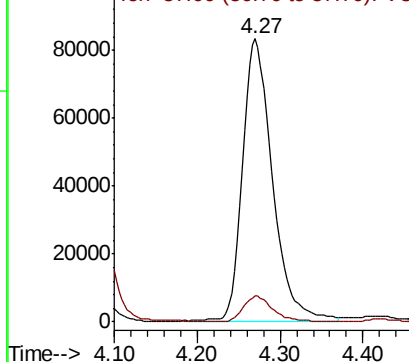


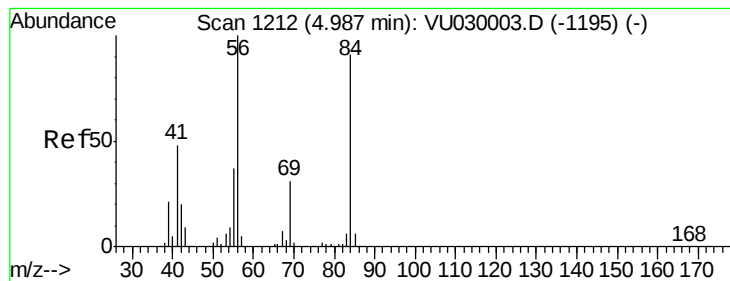
#18
 2-Butanone
 Concen: 51.319 ug/l
 RT: 4.27 min Scan# 989
 Delta R.T. 0.00 min
 Lab File: VU030013.D
 Acq: 12 Mar 2019 18:07

Tgt Ion:	43	Resp:	207837
Ion	Ratio	Lower	Upper
43	100		
57	9.0	0.0	16.8



Abundance Ion 43.00 (42.70 to 43.70): VU0
 Ion 57.00 (56.70 to 57.70): VU0





#19

Cyclohexane

Concen: 10.233 ug/l m

RT: 4.99 min Scan# 1212

Delta R.T. 0.00 min

Lab File: VU030013.D

Acq: 12 Mar 2019 18:07

Instrument :

MSVOA_U

ClientSampleId :

VSTDCCC010EC

Tgt Ion: 56 Resp: 265534
Ion Ratio Lower Upper

56 100

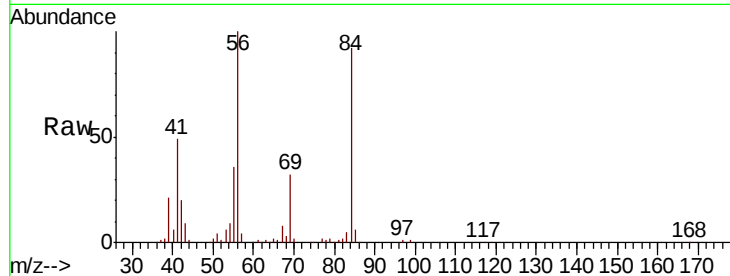
69 32.0 25.7 38.5

84 91.2 72.9 109.3

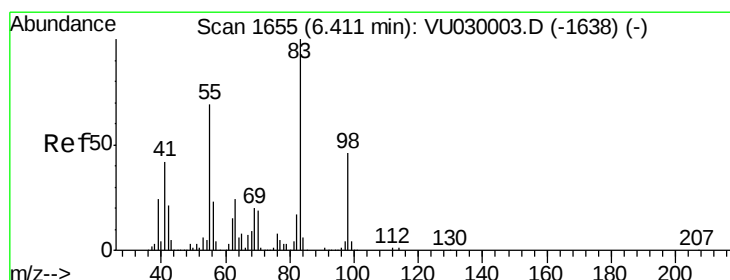
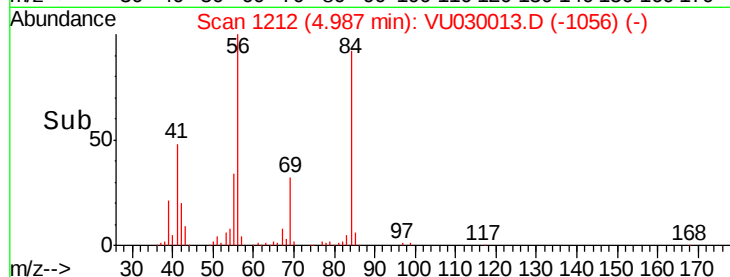
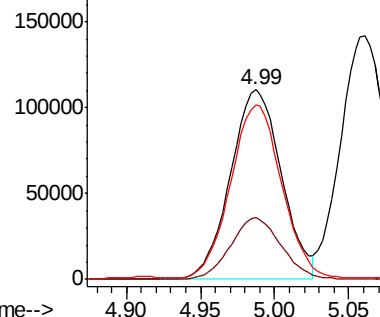
Manual Integrations
APPROVED

MMDadoda

3/13/2019 12:56:41 PM



Abundance Ion 56.00 (55.70 to 56.70): VU0
Ion 69.00 (68.70 to 69.70): VU0
Ion 84.00 (83.70 to 84.70): VU0



#20

Methylcyclohexane

Concen: 10.447 ug/l

RT: 6.41 min Scan# 1654

Delta R.T. -0.00 min

Lab File: VU030013.D

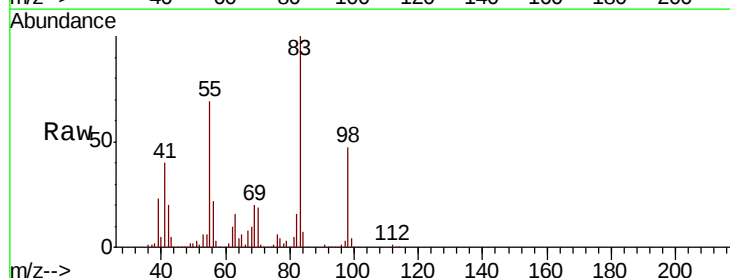
Acq: 12 Mar 2019 18:07

Tgt Ion: 83 Resp: 299157
Ion Ratio Lower Upper

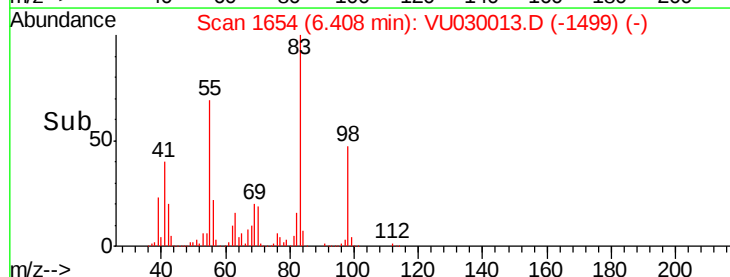
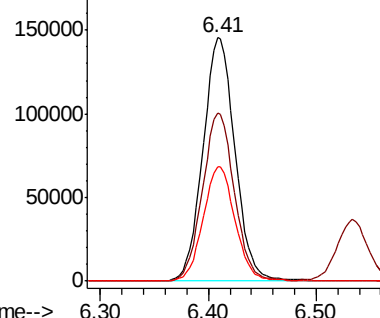
83 100

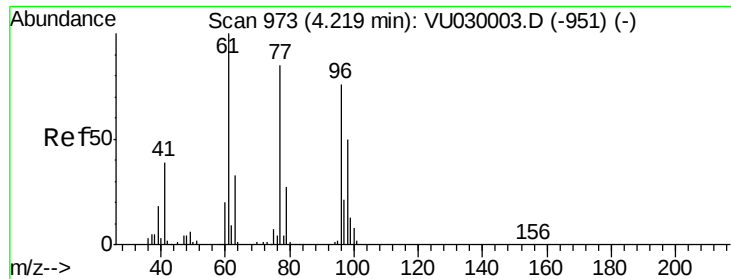
55 68.7 55.6 83.4

98 46.9 37.4 56.0



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





#21
 2,2-Dichloropropane
 Concen: 9.379 ug/l
 RT: 4.22 min Scan# 973
 Delta R.T. 0.00 min
 Lab File: VU030013.D
 Acq: 12 Mar 2019 18:07

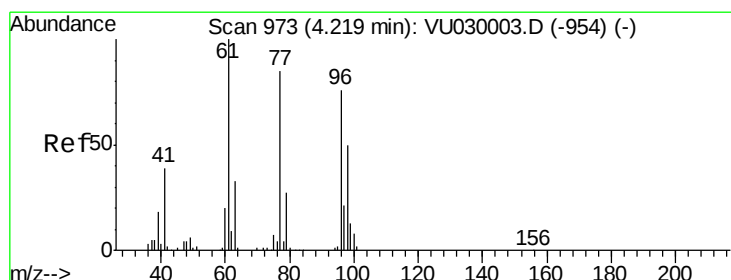
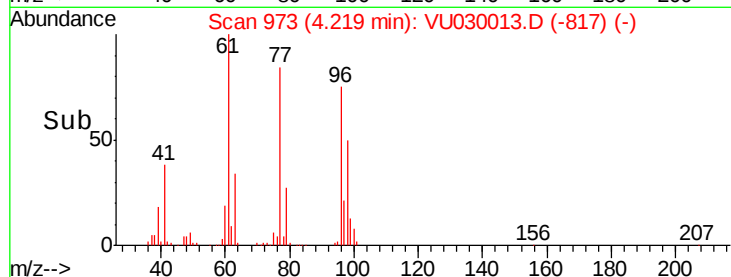
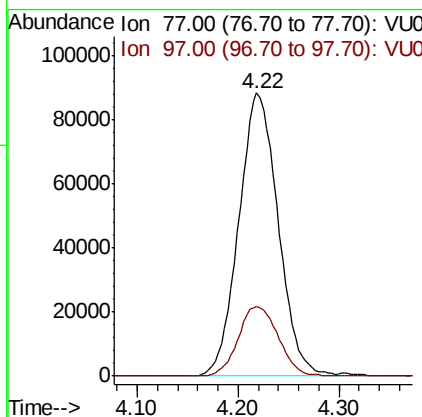
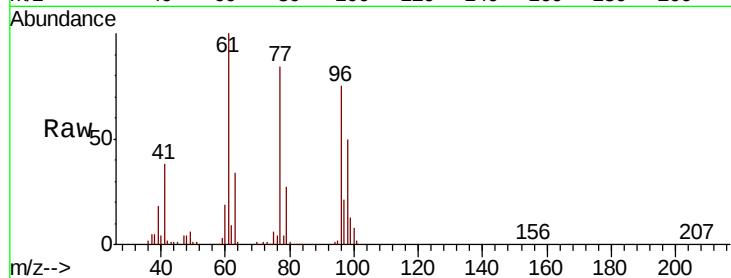
Instrument :
 MSVOA_U
 ClientSampleId :
 VSTDCCC010EC

Tgt Ion: 77 Resp: 238870
 Ion Ratio Lower Upper
 77 100
 97 25.1 20.2 30.4

Manual Integrations
 APPROVED

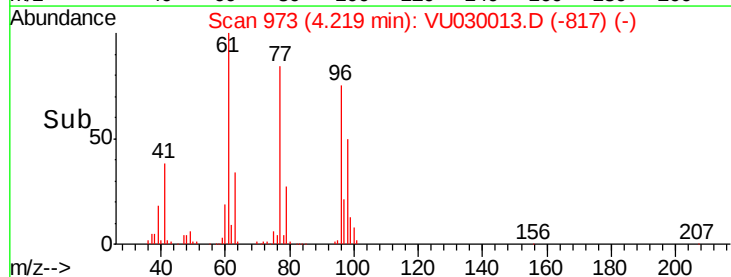
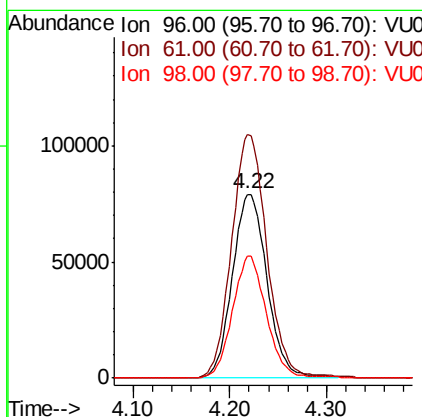
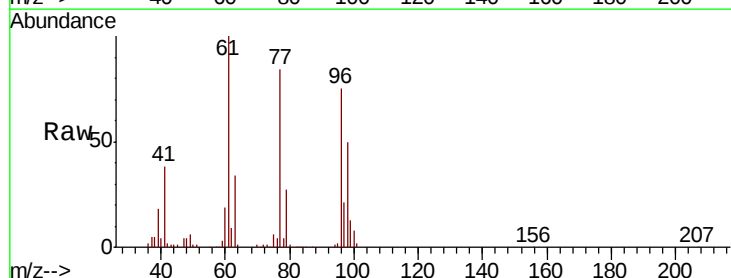
MMDadoda

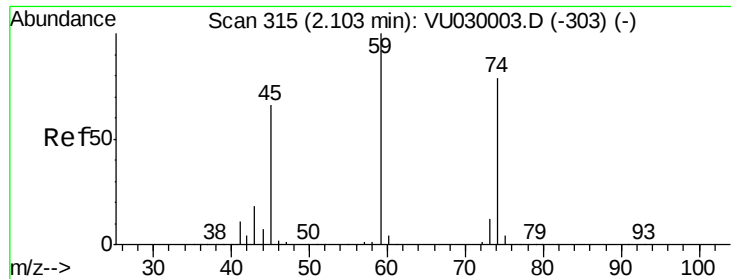
3/13/2019 12:56:41 PM



#22
 cis-1,2-Dichloroethene
 Concen: 9.916 ug/l
 RT: 4.22 min Scan# 973
 Delta R.T. 0.00 min
 Lab File: VU030013.D
 Acq: 12 Mar 2019 18:07

Tgt Ion: 96 Resp: 197483
 Ion Ratio Lower Upper
 96 100
 61 135.3 0.0 335.8
 98 65.0 32.6 97.7





#23
Diethyl Ether
Concen: 9.981 ug/l
RT: 2.10 min Scan# 315
Delta R.T. 0.00 min
Lab File: VU030013.D
Acq: 12 Mar 2019 18:07

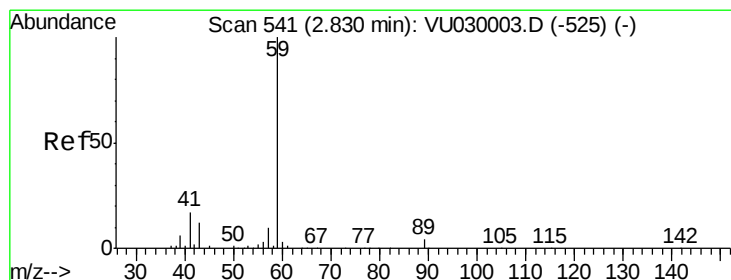
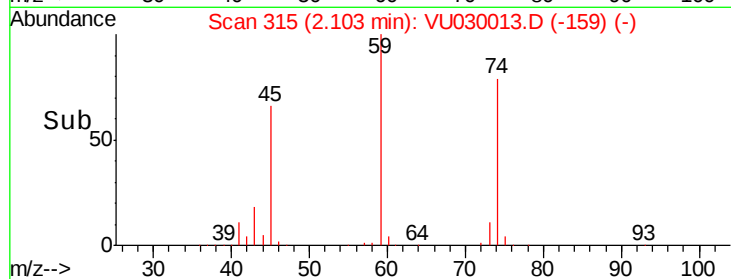
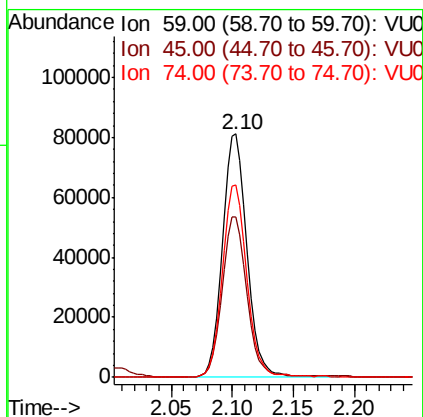
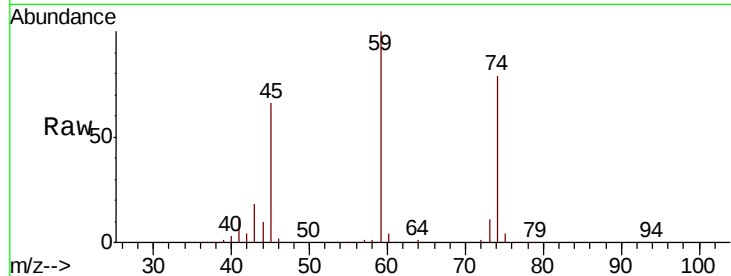
Instrument :
MSVOA_U
ClientSampleId :
VSTDCCC010EC

Tgt Ion:	59	Resp:	115695
Ion	Ratio	Lower	Upper
59	100		
45	65.4	52.3	78.5
74	78.6	61.1	91.7

Manual Integrations
APPROVED

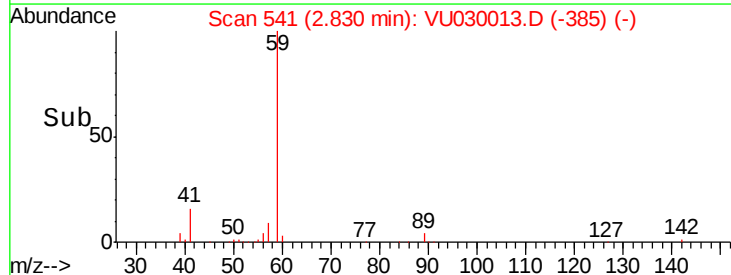
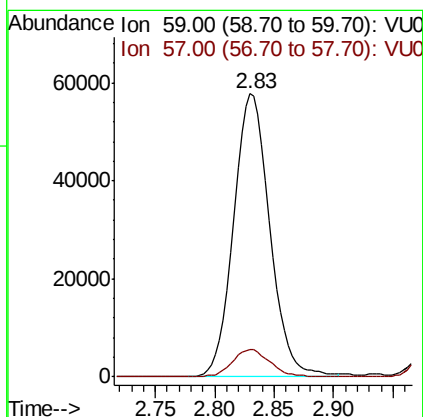
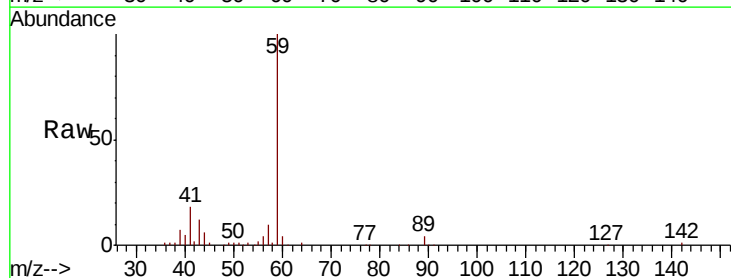
MMDadoda

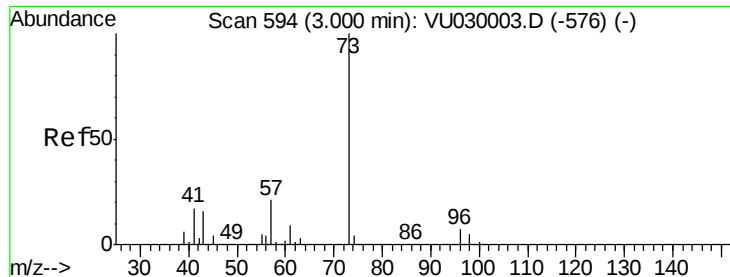
3/13/2019 12:56:41 PM



#24
tert-Butyl Alcohol
Concen: 98.258 ug/l
RT: 2.83 min Scan# 541
Delta R.T. 0.00 min
Lab File: VU030013.D
Acq: 12 Mar 2019 18:07

Tgt Ion:	59	Resp:	121892
Ion	Ratio	Lower	Upper
59	100		
57	10.2	7.7	11.5





#25

Methyl tert-Butyl Ether
Concen: 10.039 ug/l
RT: 3.00 min Scan# 594
Delta R.T. 0.00 min
Lab File: VU030013.D
Acq: 12 Mar 2019 18:07

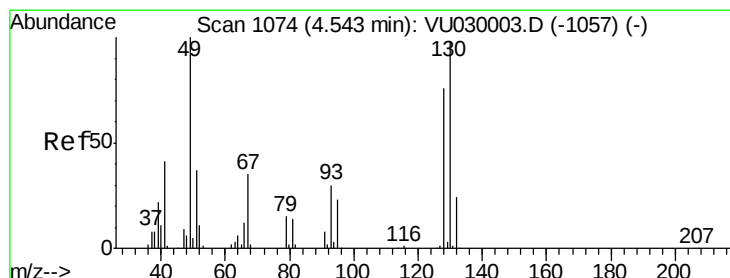
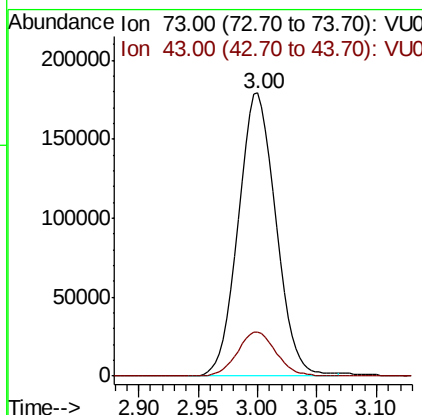
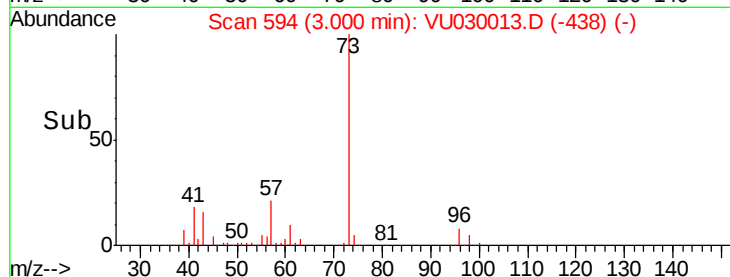
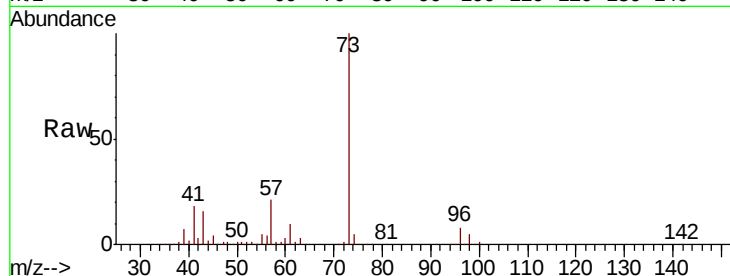
Instrument :
MSVOA_U
ClientSampleId :
VSTDCCC010EC

Tgt Ion	Ratio	Lower	Upper
73	100		
43	15.9	13.1	19.7

Manual Integrations
APPROVED

MMDadoda

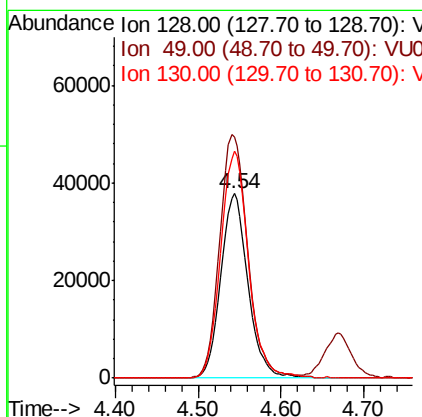
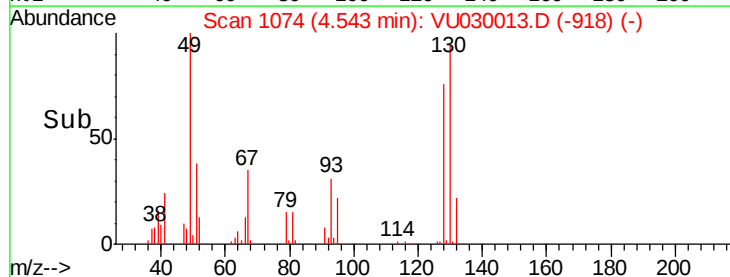
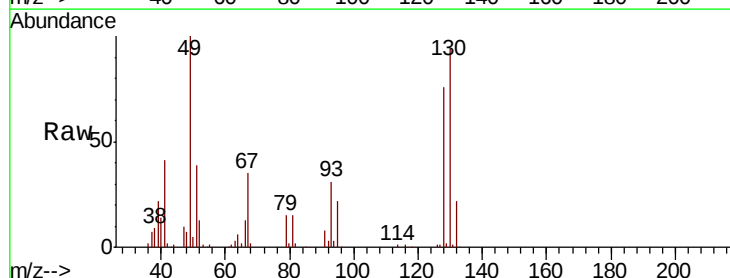
3/13/2019 12:56:41 PM

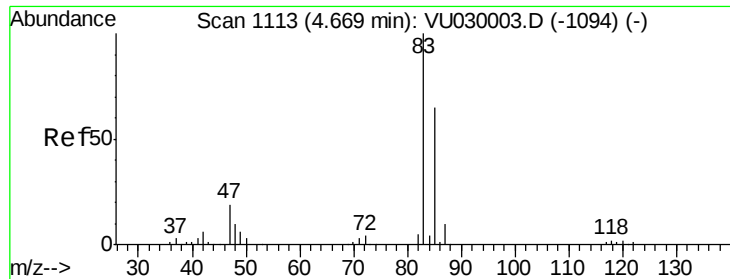


#26

Bromochloromethane
Concen: 9.895 ug/l
RT: 4.54 min Scan# 1074
Delta R.T. 0.00 min
Lab File: VU030013.D
Acq: 12 Mar 2019 18:07

Tgt Ion	Ratio	Lower	Upper
128	100		
49	135.9	0.0	270.4
130	126.1	102.6	153.8





#27
Chloroform
Concen: 9.639 ug/l
RT: 4.67 min Scan# 1113
Delta R.T. 0.00 min
Lab File: VU030013.D
Acq: 12 Mar 2019 18:07

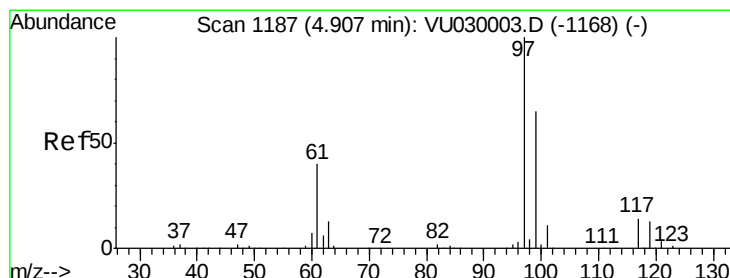
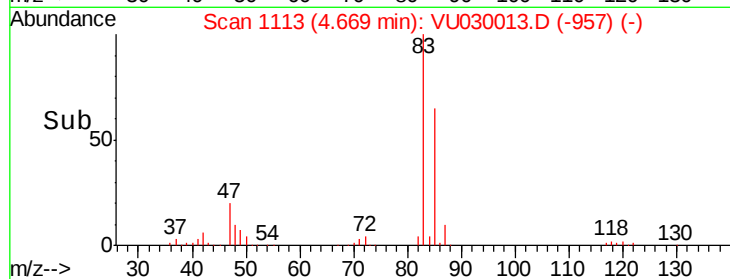
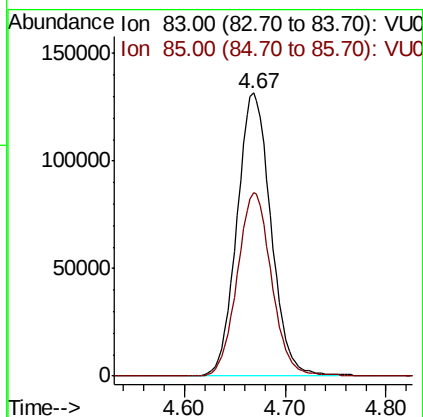
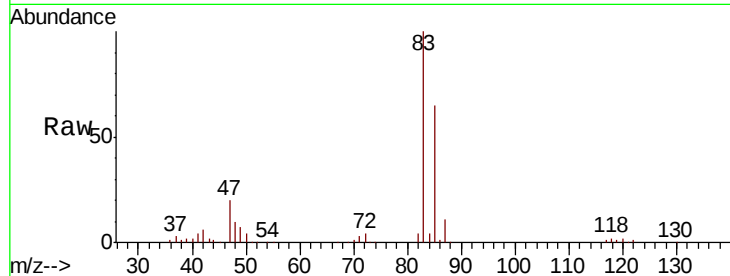
Instrument :
MSVOA_U
ClientSampleId :
VSTDCCC010EC

Tgt Ion	Ratio	Resp	Lower	Upper
83	100	307157		
85	64.9	0.0	129.0	

Manual Integrations
APPROVED

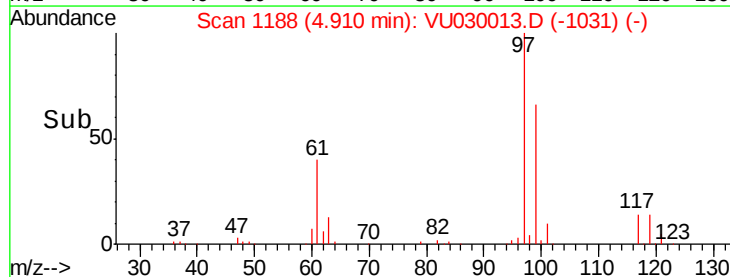
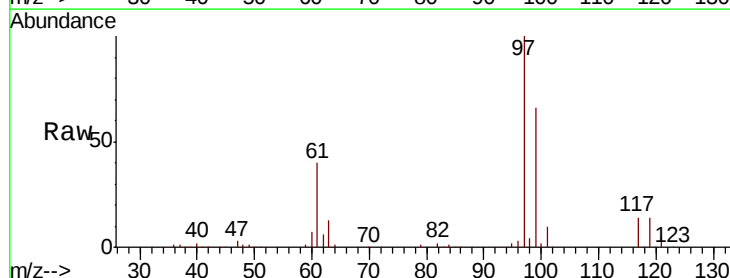
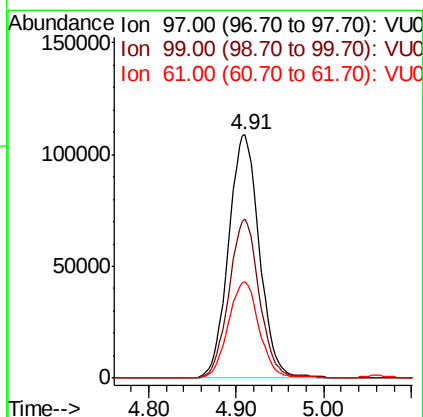
MMDadoda

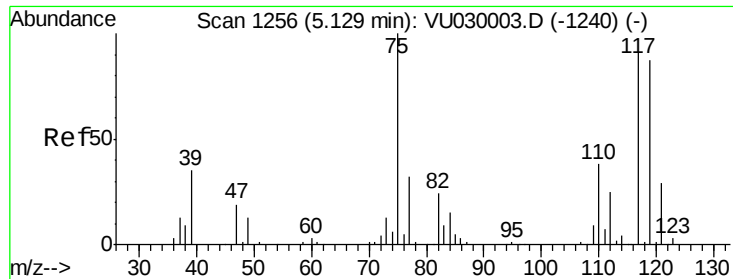
3/13/2019 12:56:41 PM



#28
1,1,1-Trichloroethane
Concen: 10.168 ug/l
RT: 4.91 min Scan# 1188
Delta R.T. 0.00 min
Lab File: VU030013.D
Acq: 12 Mar 2019 18:07

Tgt Ion	Ratio	Resp	Lower	Upper
97	100	266600		
99	64.6	32.4	97.0	
61	40.0	20.4	61.2	





#29
 1,1-Dichloropropene
 Concen: 9.987 ug/l
 RT: 5.13 min Scan# 1256
 Delta R.T. 0.00 min
 Lab File: VU030013.D
 Acq: 12 Mar 2019 18:07

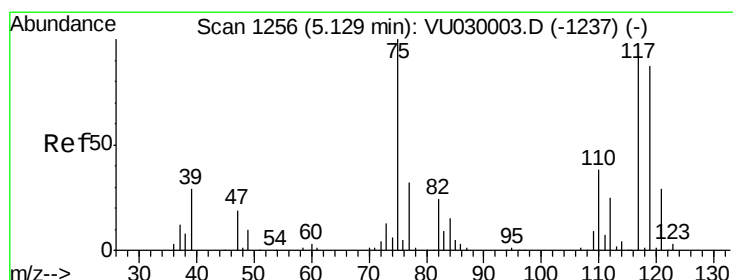
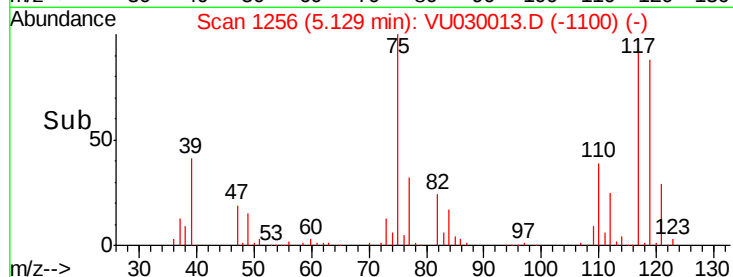
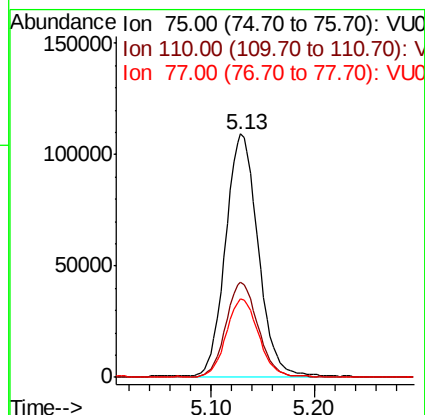
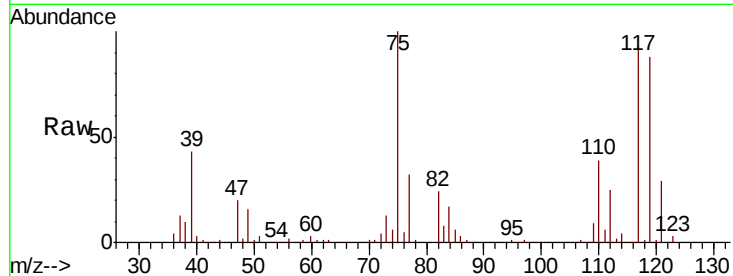
Instrument :
 MSVOA_U
 ClientSampleId :
 VSTDCCC010EC

Tgt Ion	Ratio	Resp	Lower	Upper
75	100	238393		
110	39.1	19.1	57.3	
77	31.7	25.2	37.8	

Manual Integrations
 APPROVED

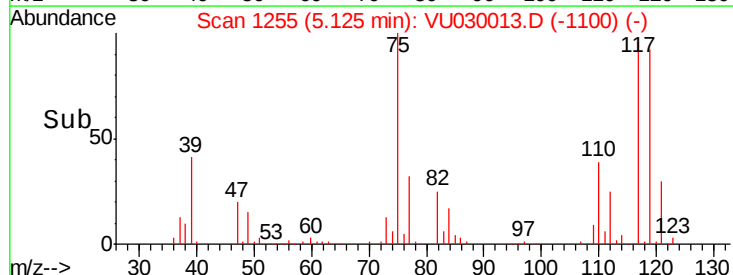
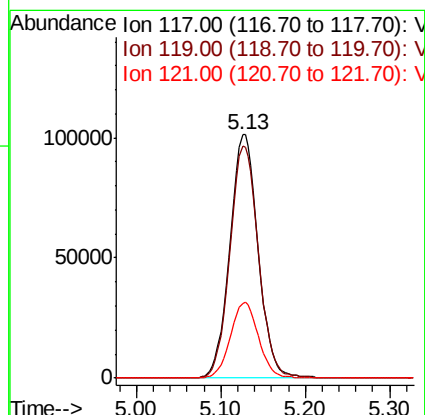
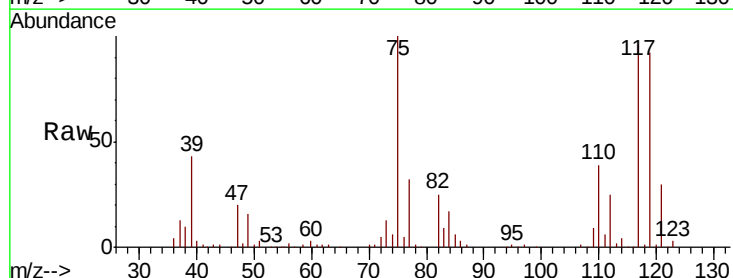
MMDadoda

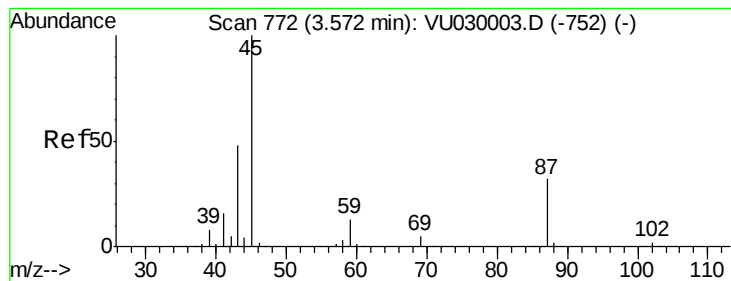
3/13/2019 12:56:41 PM



#30
 Carbon Tetrachloride
 Concen: 10.071 ug/l
 RT: 5.13 min Scan# 1255
 Delta R.T. -0.00 min
 Lab File: VU030013.D
 Acq: 12 Mar 2019 18:07

Tgt Ion	Ratio	Resp	Lower	Upper
117	100	236042		
119	95.2	76.3	114.5	
121	30.7	25.1	37.7	





#31

Isopropyl Ether

Concen: 10.270 ug/l

RT: 3.57 min Scan# 772

Delta R.T. 0.00 min

Lab File: VU030013.D

Acq: 12 Mar 2019 18:07

Instrument :

MSVOA_U

ClientSampleId :

VSTDCCC010EC

Tgt Ion: 45 Resp: 437734

Ion Ratio Lower Upper

45 100

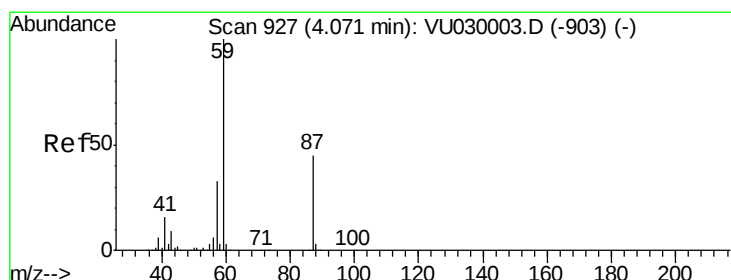
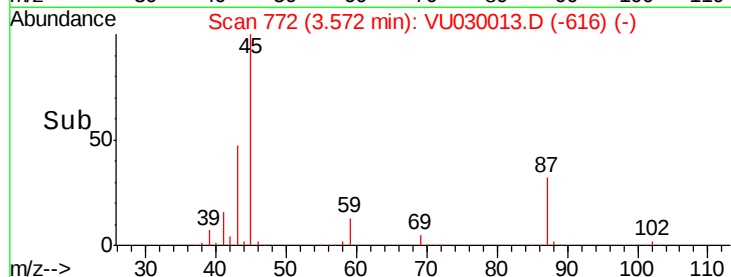
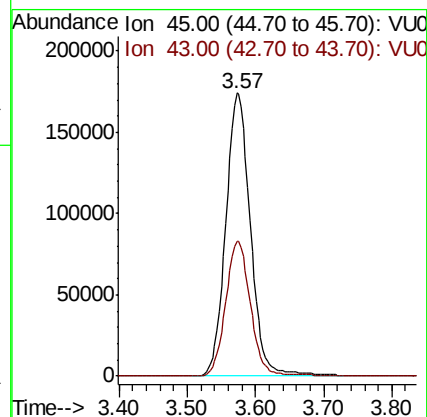
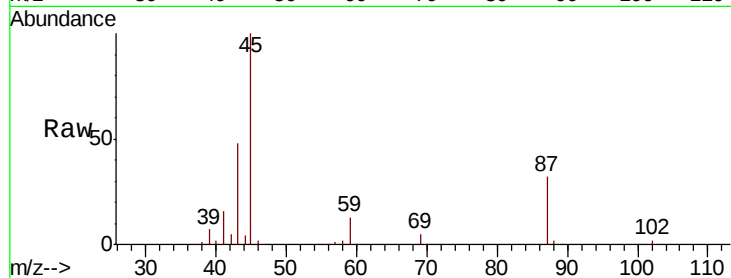
43 48.3 24.5 73.5

Manual Integrations

APPROVED

MMDadoda

3/13/2019 12:56:41 PM



#32

Ethyl-t-butyl ether

Concen: 10.299 ug/l

RT: 4.07 min Scan# 927

Delta R.T. 0.00 min

Lab File: VU030013.D

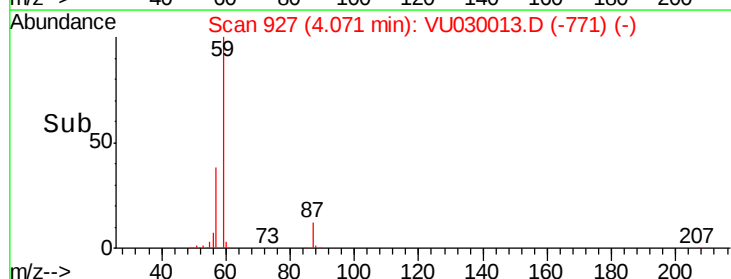
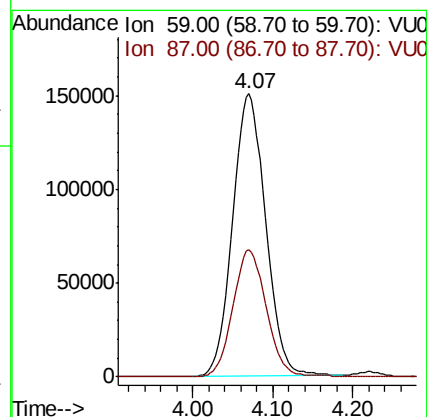
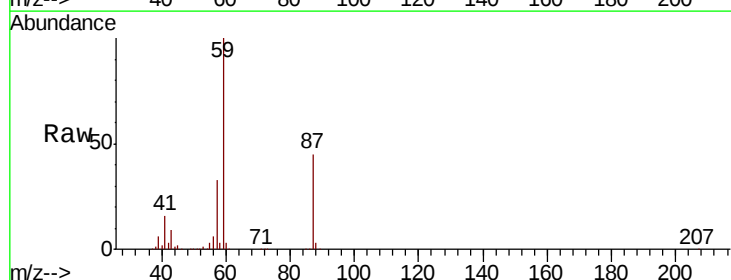
Acq: 12 Mar 2019 18:07

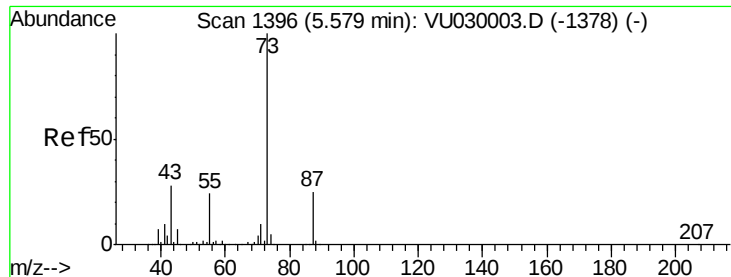
Tgt Ion: 59 Resp: 422926

Ion Ratio Lower Upper

59 100

87 44.9 36.2 54.4





#33
Tert-Amyl methyl ether
Concen: 10.437 ug/l
RT: 5.58 min Scan# 1396
Delta R.T. 0.00 min
Lab File: VU030013.D
Acq: 12 Mar 2019 18:07

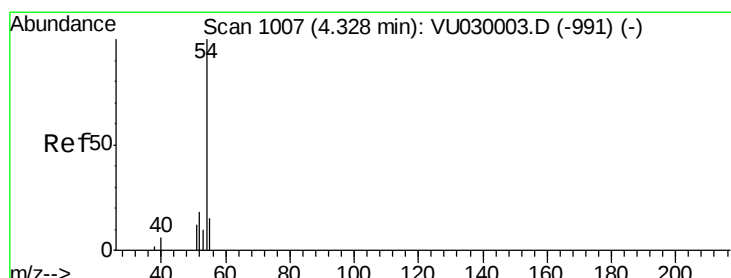
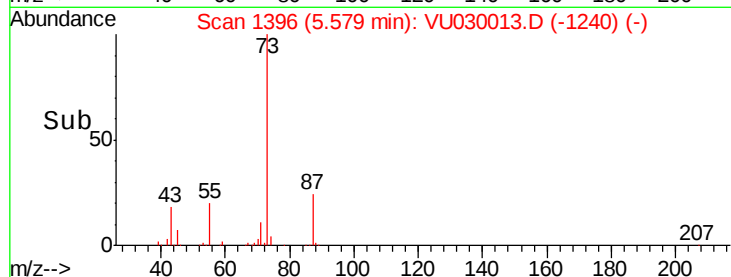
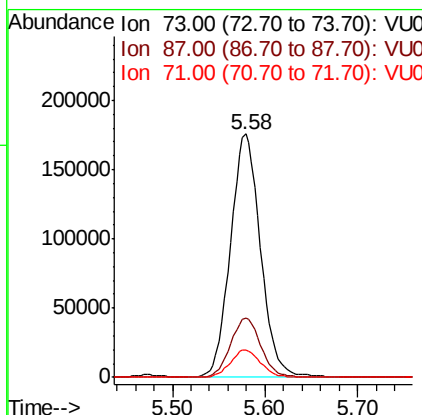
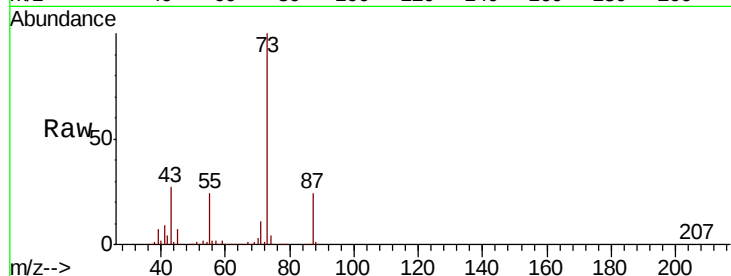
Instrument :
MSVOA_U
ClientSampleId :
VSTDCCC010EC

Tgt Ion	Ratio	Lower	Upper
73	100		
87	24.8	19.7	29.5
71	11.5	8.6	13.0

Manual Integrations
APPROVED

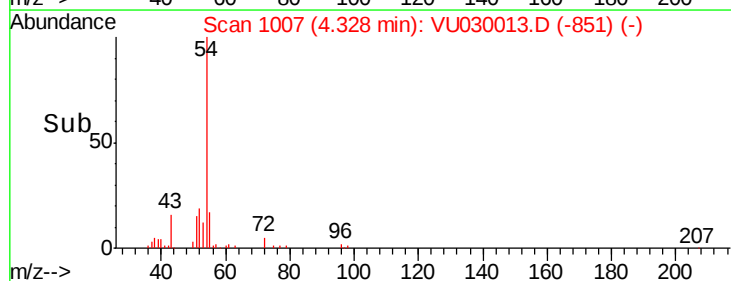
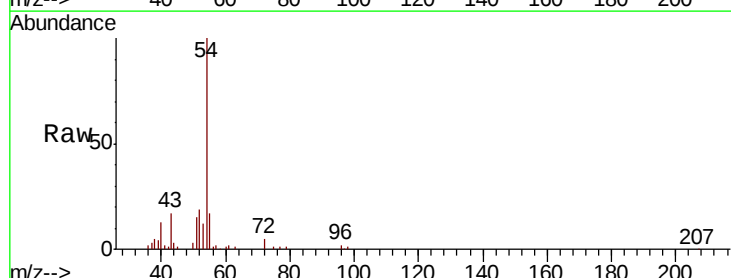
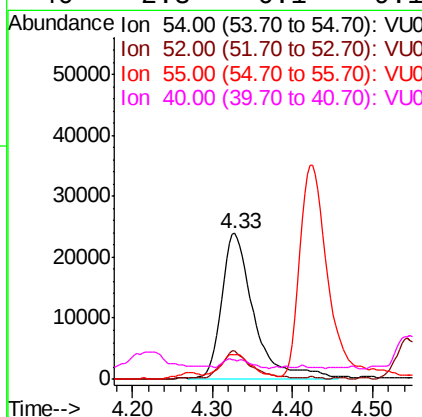
MMDadoda

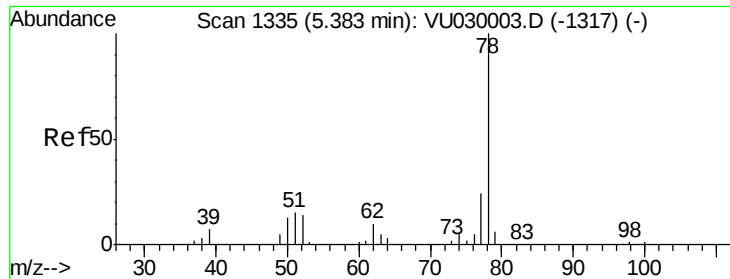
3/13/2019 12:56:41 PM



#34
Propionitrile
Concen: 57.716 ug/l
RT: 4.33 min Scan# 1007
Delta R.T. 0.00 min
Lab File: VU030013.D
Acq: 12 Mar 2019 18:07

Tgt Ion	Ratio	Lower	Upper
54	100		
52	17.7	15.8	23.6
55	14.1	12.5	18.7
40	2.3	6.1	9.1





#35

Benzene

Concen: 10.095 ug/l

RT: 5.38 min Scan# 1335

Delta R.T. 0.00 min

Lab File: VU030013.D

Acq: 12 Mar 2019 18:07

Instrument :

MSVOA_U

ClientSampleId :

VSTDCCC010EC

Tgt Ion: 78 Resp: 705001

Ion Ratio Lower Upper

78 100

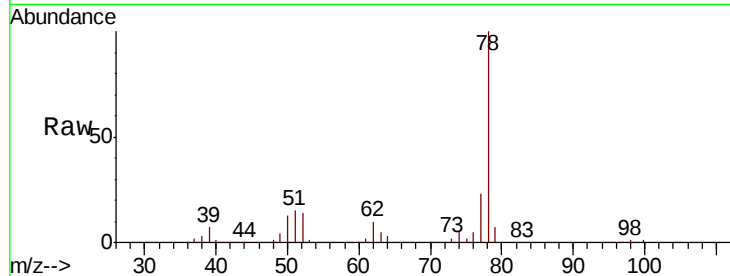
77 23.2 18.9 28.3

Manual Integrations

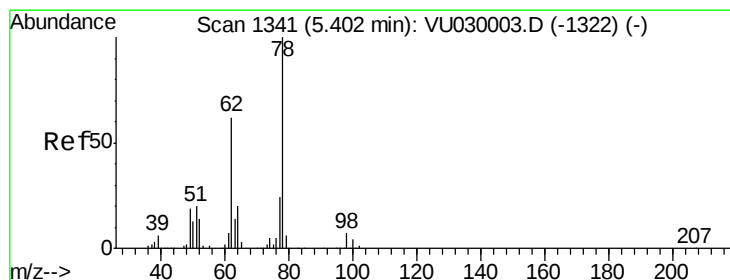
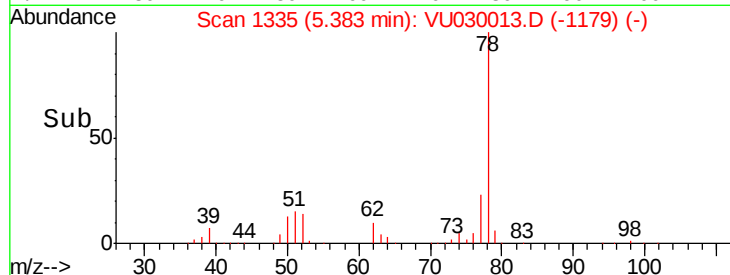
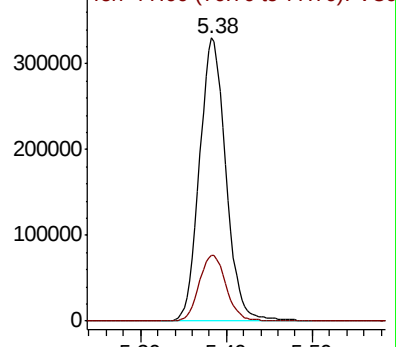
APPROVED

MMDadoda

3/13/2019 12:56:41 PM



Abundance Ion 78.10 (77.80 to 78.80): VU030003.D (-1317) (-)



#36

1,2-Dichloroethane

Concen: 9.792 ug/l

RT: 5.40 min Scan# 1340

Delta R.T. -0.00 min

Lab File: VU030013.D

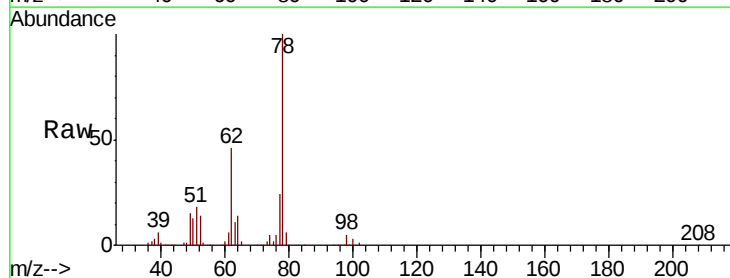
Acq: 12 Mar 2019 18:07

Tgt Ion: 62 Resp: 182841

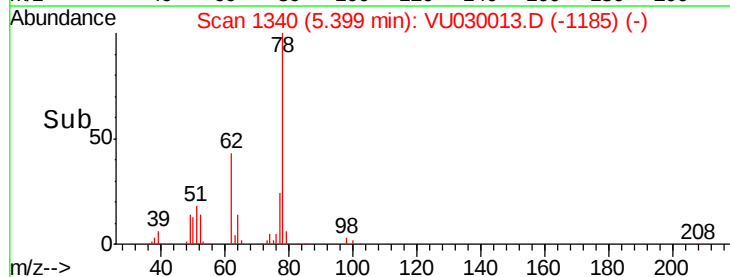
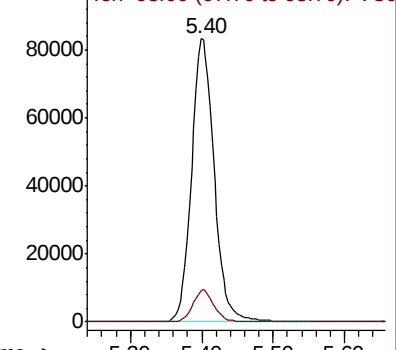
Ion Ratio Lower Upper

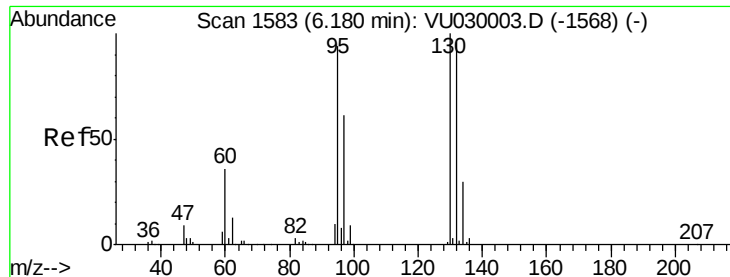
62 100

98 10.6 8.4 12.6



Abundance Ion 62.00 (61.70 to 62.70): VU030003.D (-1322) (-)





#37
 Trichloroethene
 Concen: 9.949 ug/l
 RT: 6.18 min Scan# 1583
 Delta R.T. 0.00 min
 Lab File: VU030013.D
 Acq: 12 Mar 2019 18:07

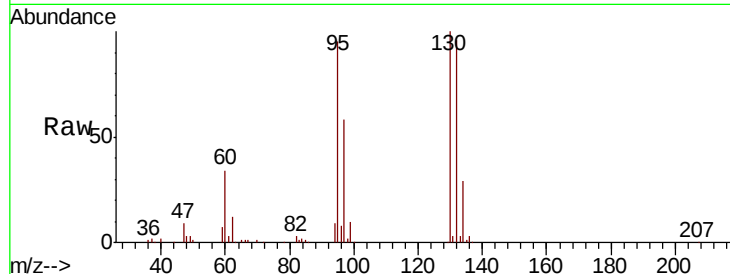
Instrument :
 MSVOA_U
 ClientSampleId :
 VSTDCCC010EC

Tgt Ion: 130 Resp: 200127
 Ion Ratio Lower Upper
 130 100
 95 94.8 75.2 112.8

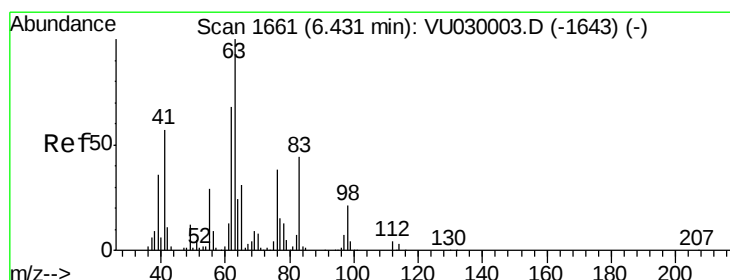
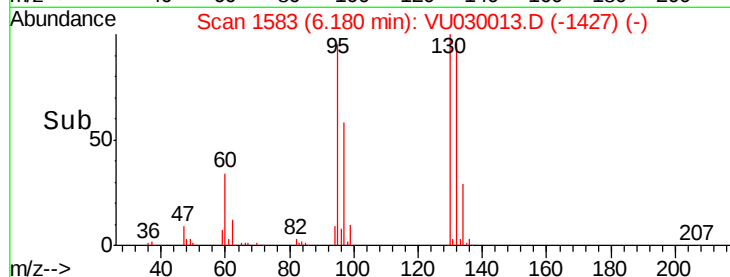
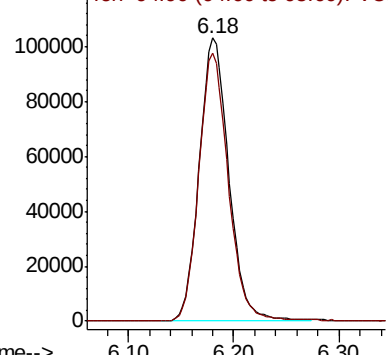
Manual Integrations
 APPROVED

MMDadoda

3/13/2019 12:56:41 PM

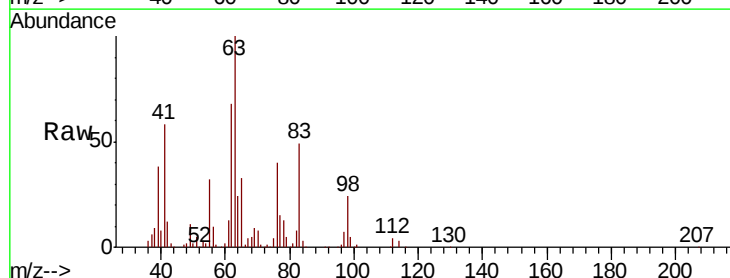


Abundance Ion 129.90 (129.60 to 130.60): V
 Ion 94.90 (94.60 to 95.60): VU0

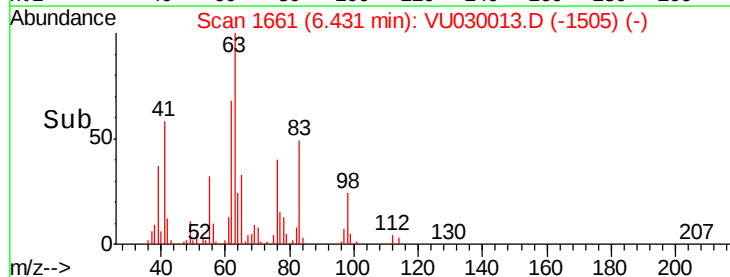
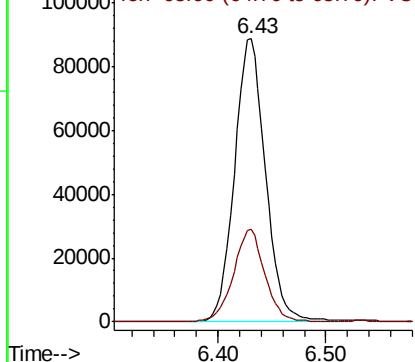


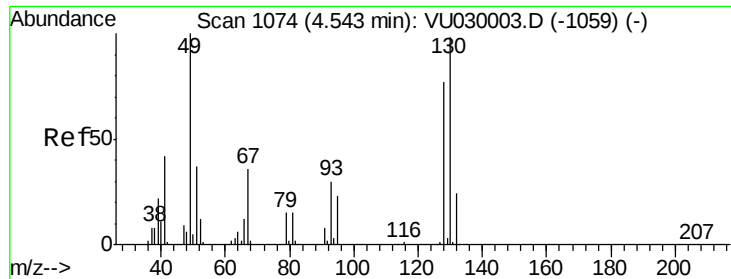
#38
 1,2-Dichloropropane
 Concen: 10.014 ug/l
 RT: 6.43 min Scan# 1661
 Delta R.T. 0.00 min
 Lab File: VU030013.D
 Acq: 12 Mar 2019 18:07

Tgt Ion: 63 Resp: 177776
 Ion Ratio Lower Upper
 63 100
 65 32.6 24.9 37.3



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





#39
Methacrylonitrile
Concen: 10.220 ug/l
RT: 4.55 min Scan# 1075
Delta R.T. 0.00 min
Lab File: VU030013.D
Acq: 12 Mar 2019 18:07

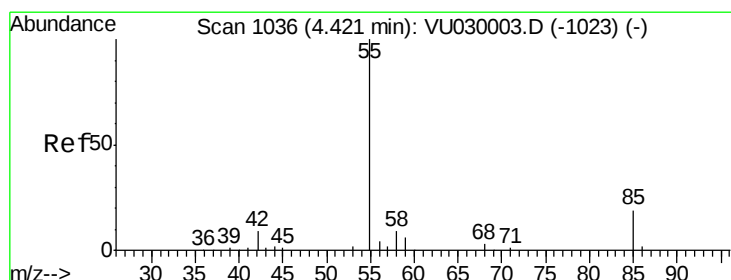
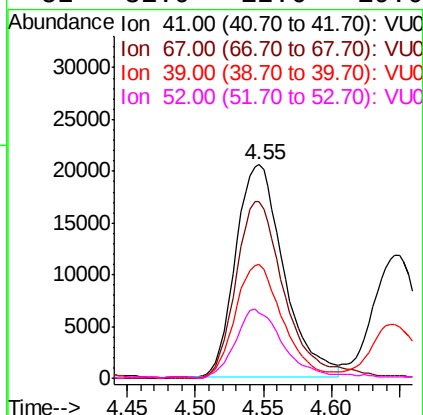
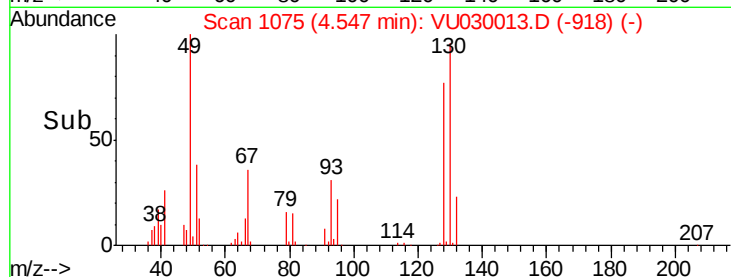
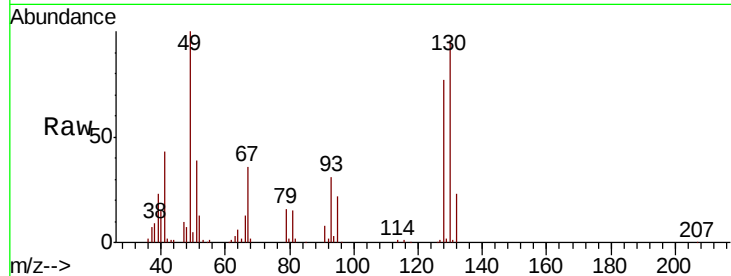
Instrument :
MSVOA_U
ClientSampleId :
VSTDCCC010EC

Tgt Ion	Ratio	Lower	Upper
41	100		
67	84.4	71.4	107.0
39	53.0	41.9	62.9
52	31.9	12.6	19.0

Manual Integrations
APPROVED

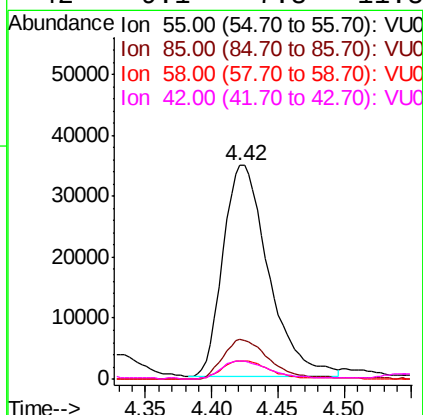
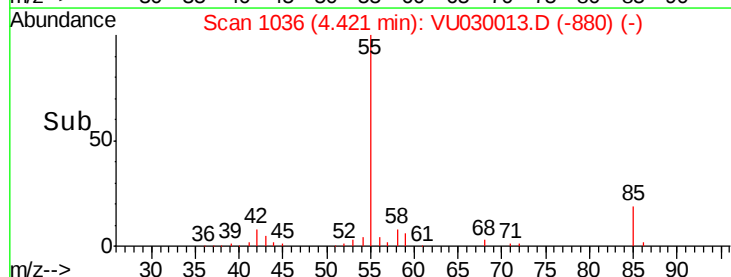
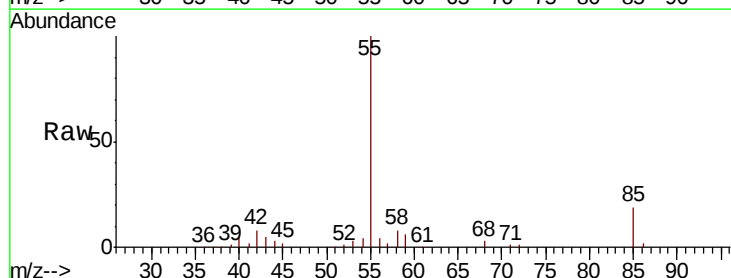
MMDadoda

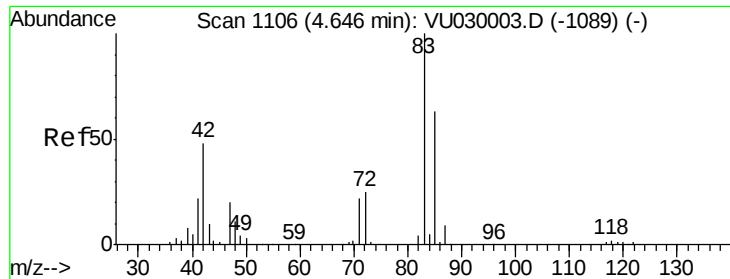
3/13/2019 12:56:41 PM



#40
Methyl acrylate
Concen: 10.706 ug/l
RT: 4.42 min Scan# 1036
Delta R.T. 0.00 min
Lab File: VU030013.D
Acq: 12 Mar 2019 18:07

Tgt Ion	Ratio	Lower	Upper
55	100		
85	18.4	16.2	24.2
58	9.2	7.0	10.6
42	9.1	7.8	11.8





#41
Tetrahydrofuran
Concen: 19.222 ug/l
RT: 4.65 min Scan# 1106
Delta R.T. 0.00 min
Lab File: VU030013.D
Acq: 12 Mar 2019 18:07

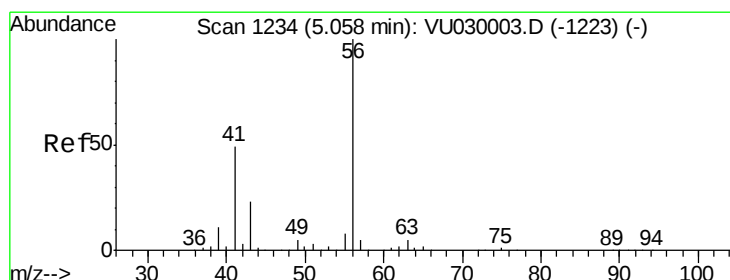
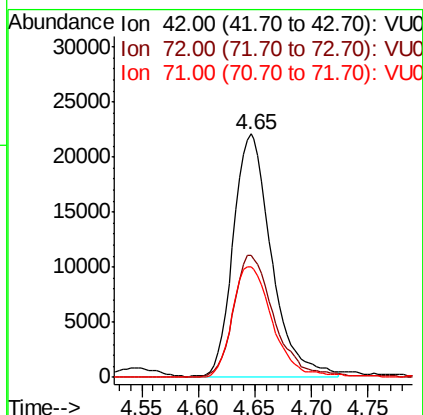
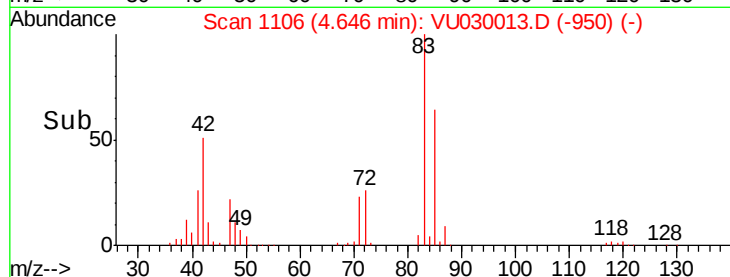
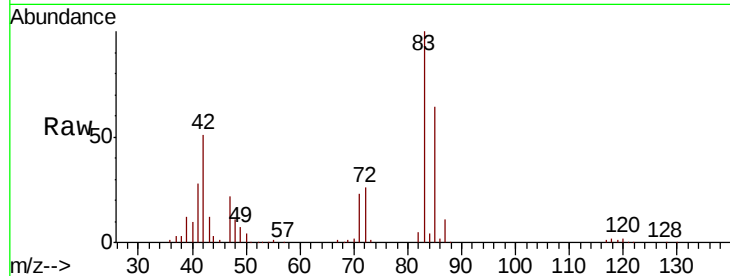
Instrument :
MSVOA_U
ClientSampleId :
VSTDCCC010EC

Tgt Ion	Ratio	Lower	Upper
42	100		
72	53.4	44.9	67.3
71	47.5	37.8	56.8

Manual Integrations
APPROVED

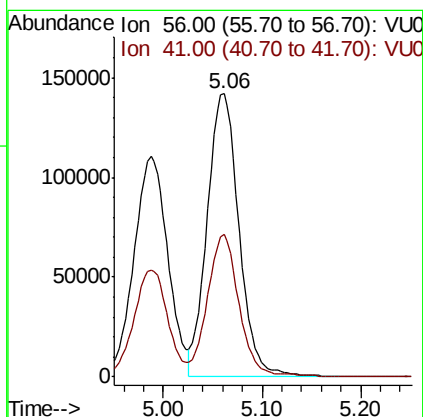
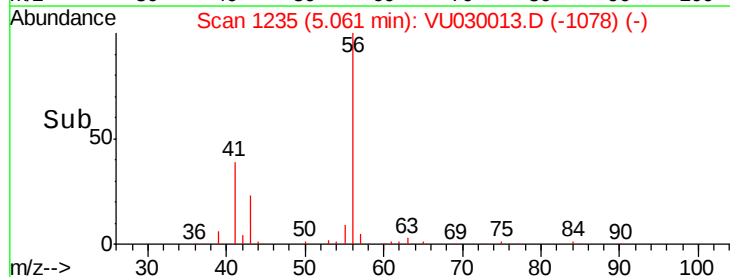
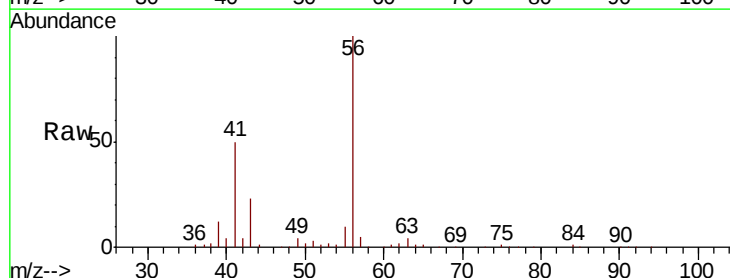
MMDadoda

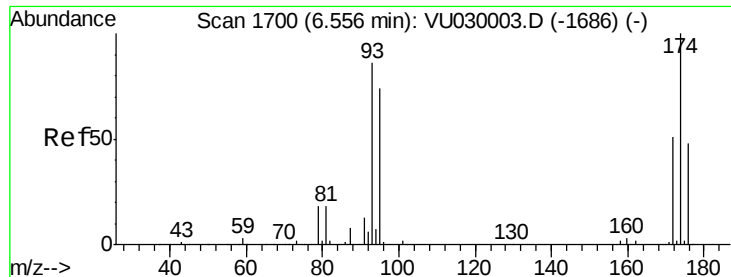
3/13/2019 12:56:41 PM



#42
1-Chlorobutane
Concen: 10.193 ug/l
RT: 5.06 min Scan# 1235
Delta R.T. 0.00 min
Lab File: VU030013.D
Acq: 12 Mar 2019 18:07

Tgt Ion	Ratio	Lower	Upper
56	100		
41	48.9	24.7	74.1





#43
Dibromomethane
Concen: 9.846 ug/l
RT: 6.56 min Scan# 1700
Delta R.T. 0.00 min
Lab File: VU030013.D
Acq: 12 Mar 2019 18:07

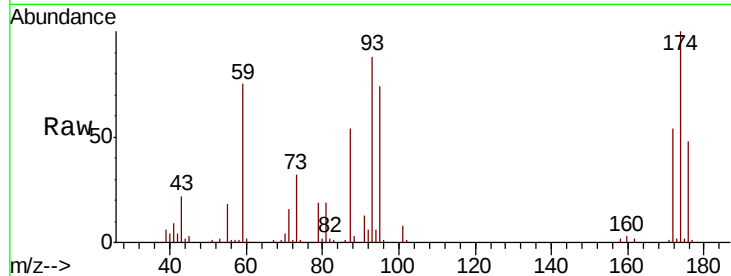
Instrument :
MSVOA_U
ClientSampleId :
VSTDCCC010EC

Tgt Ion: 93 Resp: 90437
Ion Ratio Lower Upper
93 100
95 85.4 68.6 102.8
174 116.0 91.8 137.8

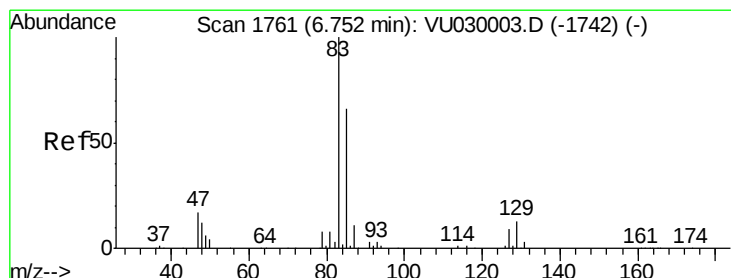
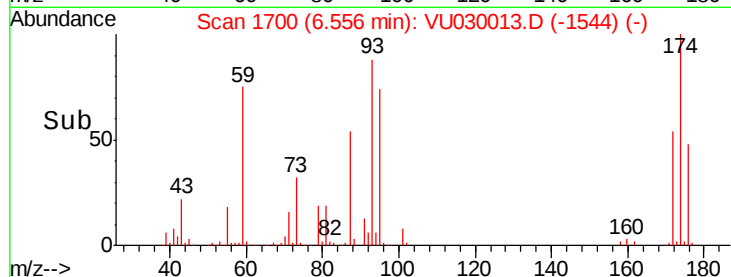
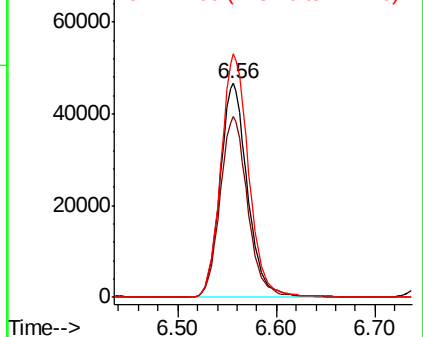
Manual Integrations
APPROVED

MMDadoda

3/13/2019 12:56:41 PM



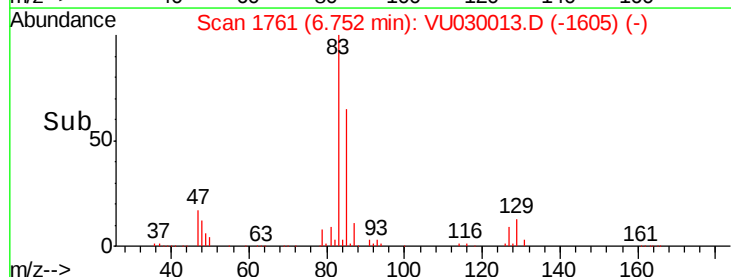
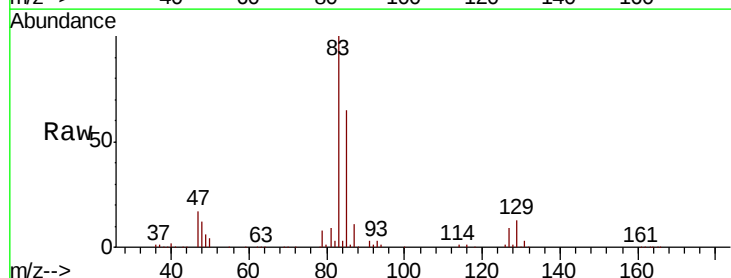
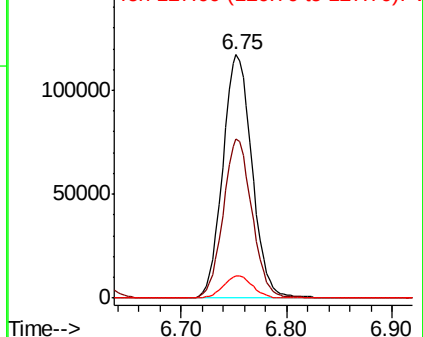
Abundance Ion 93.00 (92.70 to 93.70): VU0
Ion 95.00 (94.70 to 95.70): VU0
Ion 174.00 (173.70 to 174.70): V

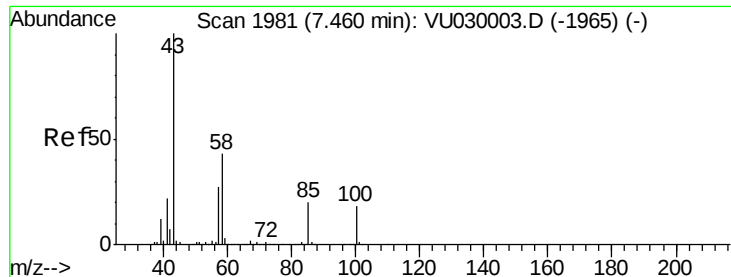


#44
Bromodichloromethane
Concen: 10.259 ug/l
RT: 6.75 min Scan# 1761
Delta R.T. 0.00 min
Lab File: VU030013.D
Acq: 12 Mar 2019 18:07

Tgt Ion: 83 Resp: 224796
Ion Ratio Lower Upper
83 100
85 65.4 53.2 79.8
127 9.0 7.4 11.0

Abundance Ion 83.00 (82.70 to 83.70): VU0
Ion 85.00 (84.70 to 85.70): VU0
Ion 127.00 (126.70 to 127.70): V





#45
4-Methyl-2-Pentanone
Concen: 53.034 ug/l
RT: 7.46 min Scan# 1981
Delta R.T. 0.00 min
Lab File: VU030013.D
Acq: 12 Mar 2019 18:07

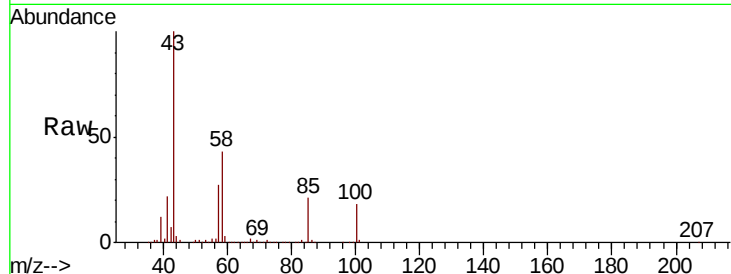
Instrument :
MSVOA_U
ClientSampleId :
VSTDCCC010EC

Tgt Ion	Ratio	Lower	Upper
43	100		
58	43.9	21.6	64.6
85	20.8	16.3	24.5

Manual Integrations
APPROVED

MMDadoda

3/13/2019 12:56:41 PM

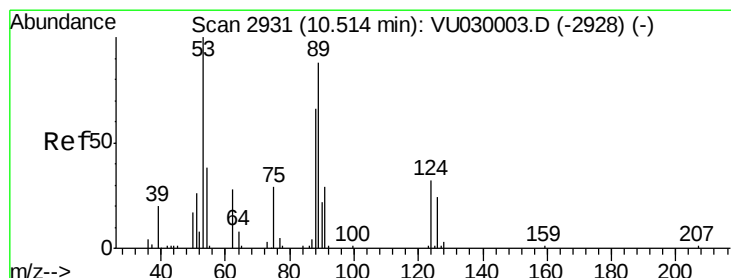
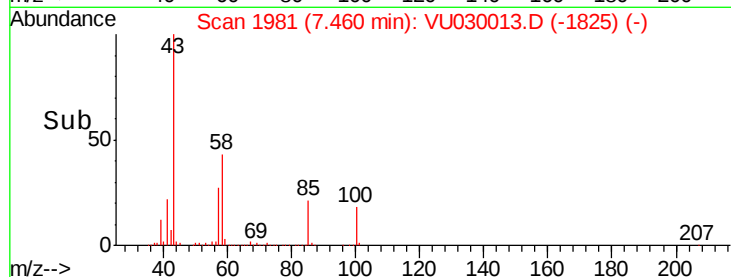
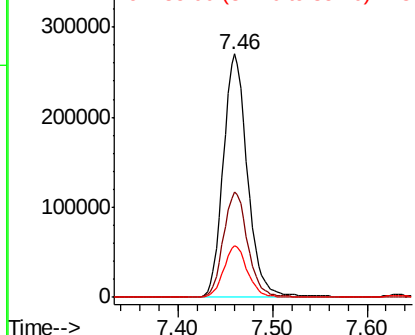


Abundance

Ion 43.00 (42.70 to 43.70): VU0

Ion 58.00 (57.70 to 58.70): VU0

Ion 85.00 (84.70 to 85.70): VU0



#46
t-1,4-Dichloro-2-butene
Concen: 19.800 ug/l m
RT: 10.51 min Scan# 2931
Delta R.T. 0.00 min
Lab File: VU030013.D
Acq: 12 Mar 2019 18:07

Tgt Ion	Ratio	Lower	Upper
75	100		
53	70.7	57.0	85.6
89	56.0	43.6	65.4
88	39.7	31.5	47.3

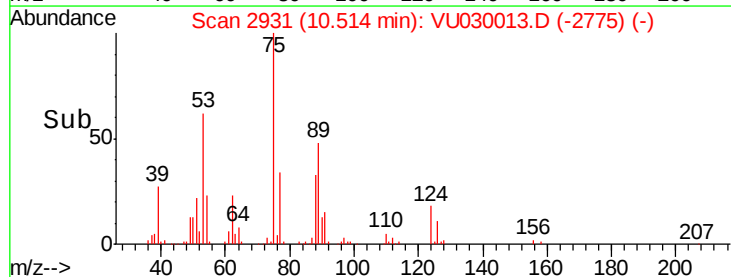
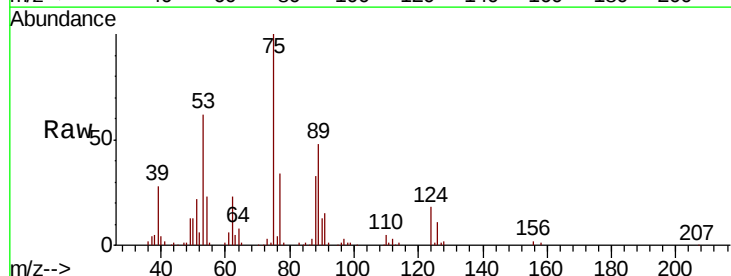
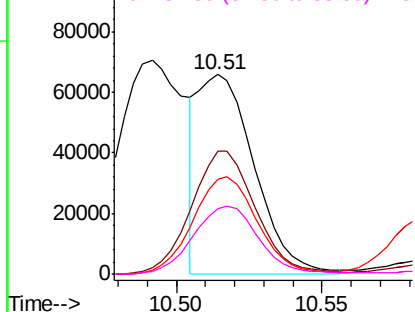
Abundance

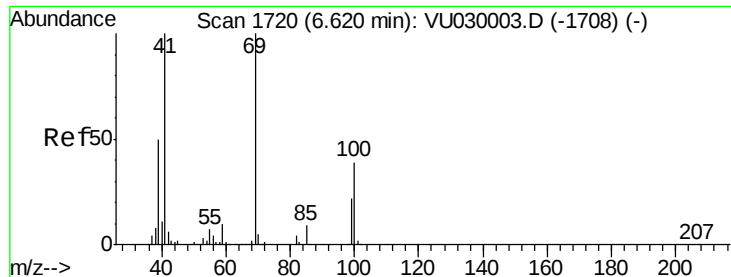
Ion 74.90 (74.60 to 75.60): VU0

Ion 53.00 (52.70 to 53.70): VU0

Ion 88.80 (88.50 to 89.50): VU0

Ion 87.80 (87.50 to 88.50): VU0





#47
Methyl methacrylate
Concen: 21.929 ug/l
RT: 6.62 min Scan# 1720
Delta R.T. 0.00 min
Lab File: VU030013.D
Acq: 12 Mar 2019 18:07

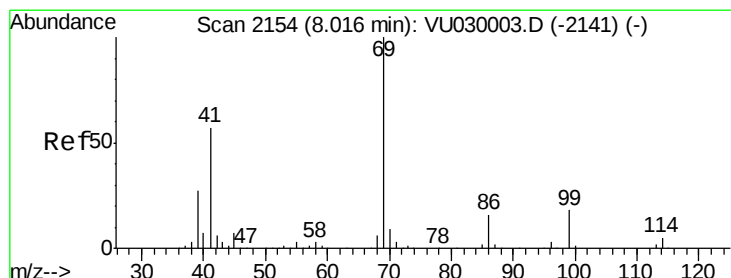
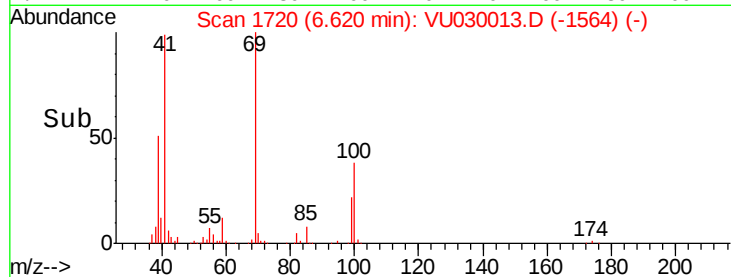
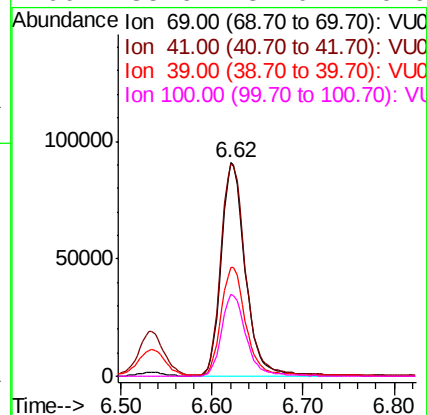
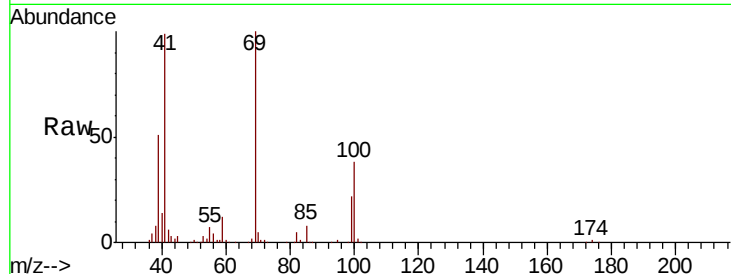
Instrument :
MSVOA_U
ClientSampleId :
VSTDCCC010EC

Tgt Ion	Ratio	Lower	Upper
69	100		
41	101.2	0.0	197.8
39	51.6	40.2	60.4
100	38.6	31.0	46.6

Manual Integrations
APPROVED

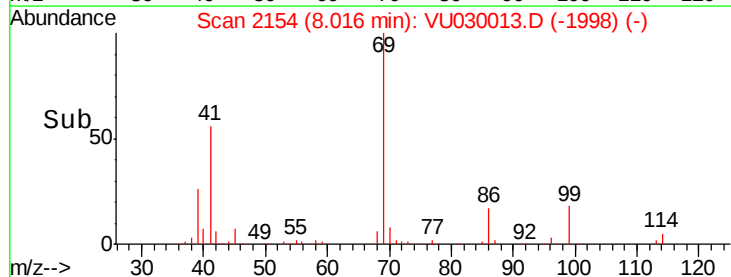
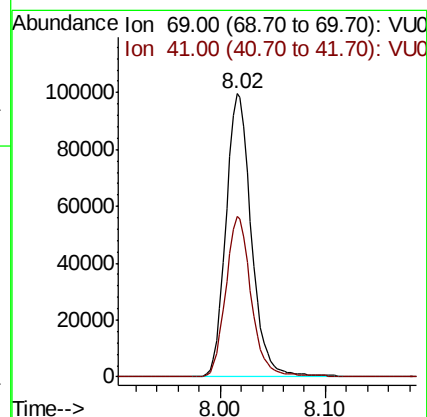
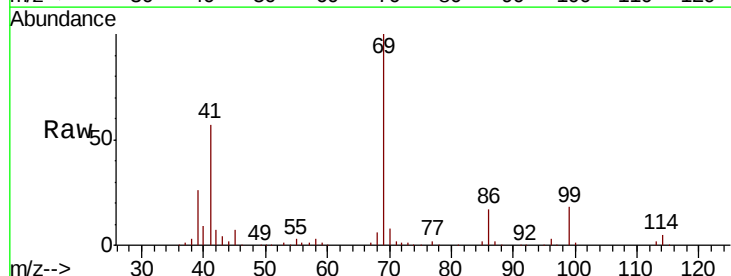
MMDadoda

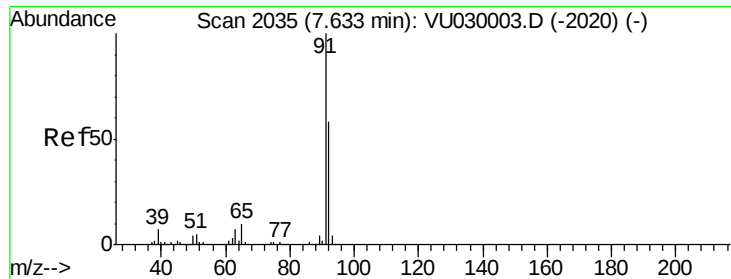
3/13/2019 12:56:41 PM



#48
Ethyl methacrylate
Concen: 11.450 ug/l
RT: 8.02 min Scan# 2154
Delta R.T. 0.00 min
Lab File: VU030013.D
Acq: 12 Mar 2019 18:07

Tgt Ion	Ratio	Lower	Upper
69	100		
41	56.9	28.1	84.4





#49

Toluene

Concen: 10.574 ug/l

RT: 7.63 min Scan# 2035

Delta R.T. 0.00 min

Lab File: VU030013.D

Acq: 12 Mar 2019 18:07

Instrument :

MSVOA_U

ClientSampleId :

VSTDCCC010EC

Tgt Ion: 92 Resp: 444932

Ion Ratio Lower Upper

92 100

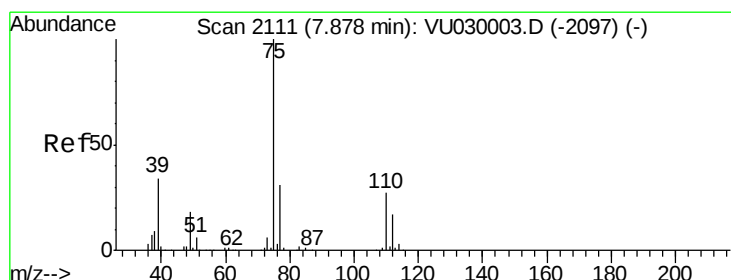
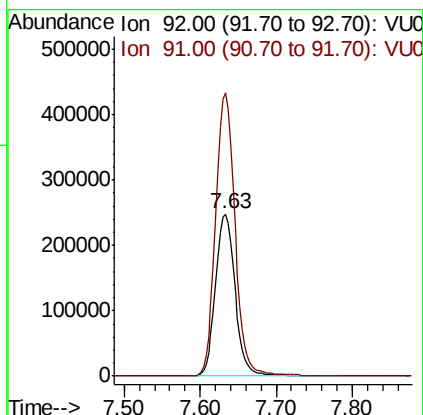
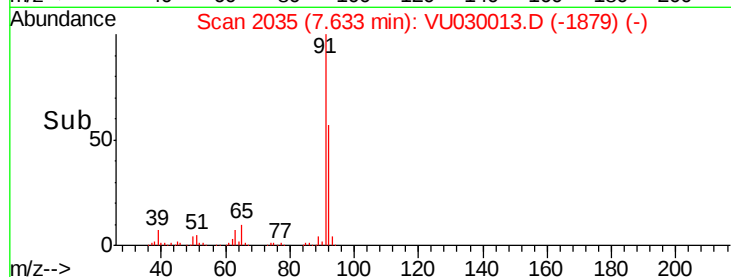
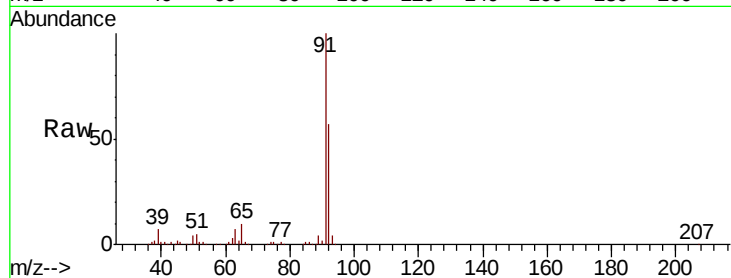
91 172.7 140.1 210.1

Manual Integrations

APPROVED

MMDadoda

3/13/2019 12:56:41 PM



#50

t-1,3-Dichloropropene

Concen: 10.749 ug/l

RT: 7.88 min Scan# 2111

Delta R.T. 0.00 min

Lab File: VU030013.D

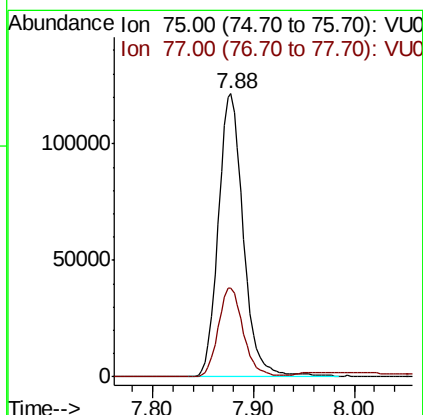
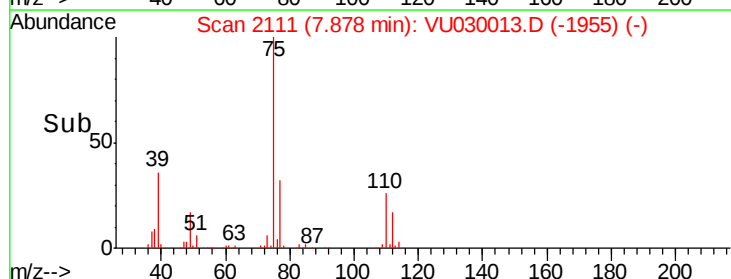
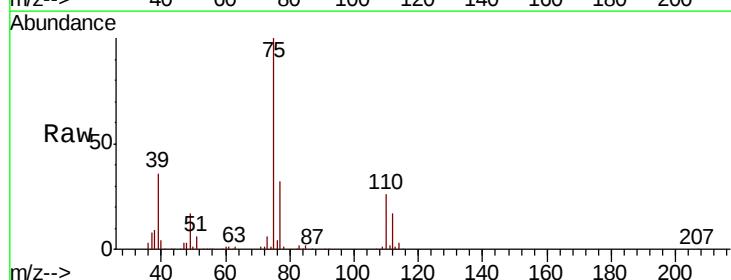
Acq: 12 Mar 2019 18:07

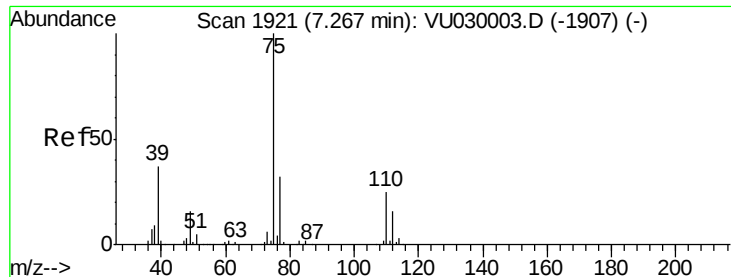
Tgt Ion: 75 Resp: 210912

Ion Ratio Lower Upper

75 100

77 31.5 25.1 37.7





#51

cis-1,3-Dichloropropene
Concen: 10.446 ug/l
RT: 7.27 min Scan# 1921
Delta R.T. 0.00 min
Lab File: VU030013.D
Acq: 12 Mar 2019 18:07

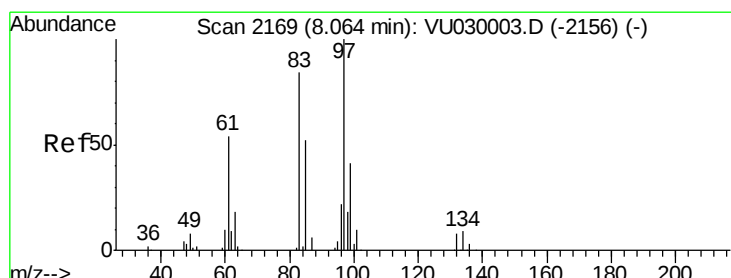
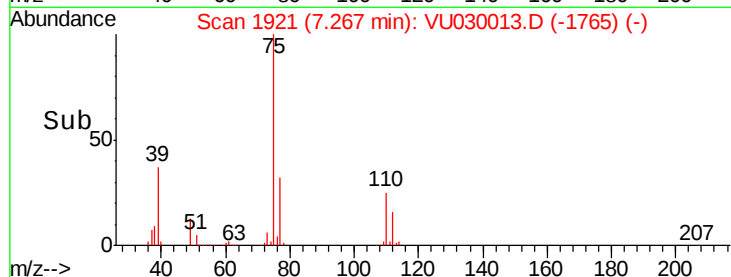
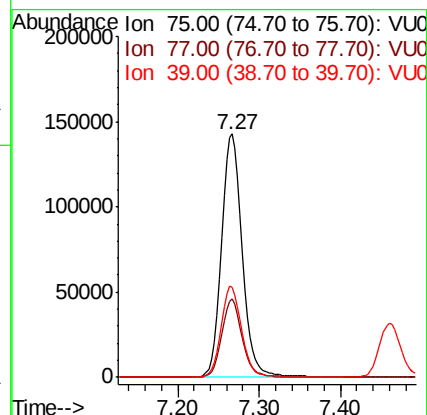
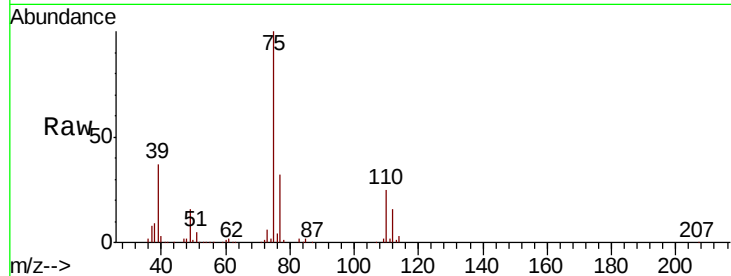
Instrument :
MSVOA_U
ClientSampleId :
VSTDCCC010EC

Tgt Ion:	75	Resp:	257664
Ion	Ratio	Lower	Upper
75	100		
77	32.2	26.0	39.0
39	36.8	29.5	44.3

Manual Integrations
APPROVED

MMDadoda

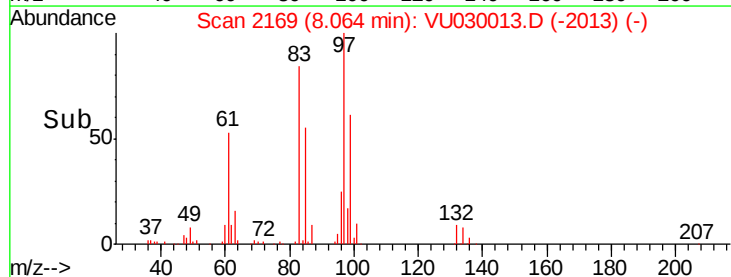
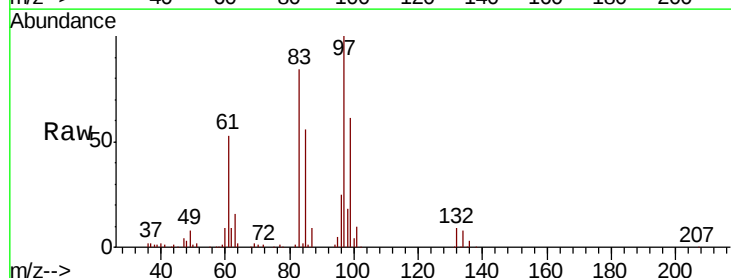
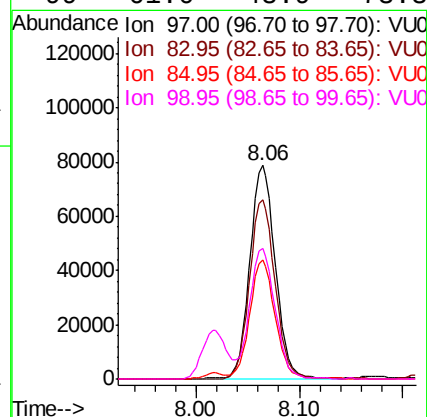
3/13/2019 12:56:41 PM

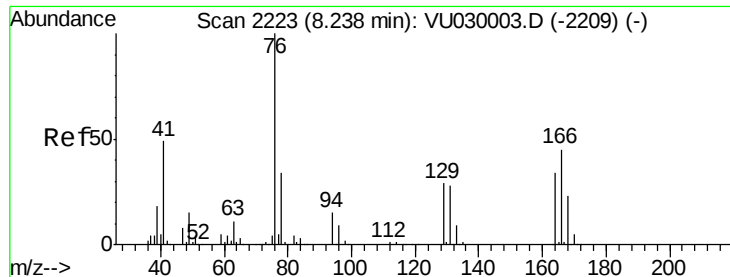


#52

1,1,2-Trichloroethane
Concen: 10.409 ug/l
RT: 8.06 min Scan# 2169
Delta R.T. 0.00 min
Lab File: VU030013.D
Acq: 12 Mar 2019 18:07

Tgt Ion:	97	Resp:	135159
Ion	Ratio	Lower	Upper
97	100		
83	84.2	67.4	101.0
85	55.4	42.6	64.0
99	61.0	48.9	73.3





#53
 1,3-Dichloropropane
 Concen: 10.196 ug/l
 RT: 8.24 min Scan# 2223
 Delta R.T. 0.00 min
 Lab File: VU030013.D
 Acq: 12 Mar 2019 18:07

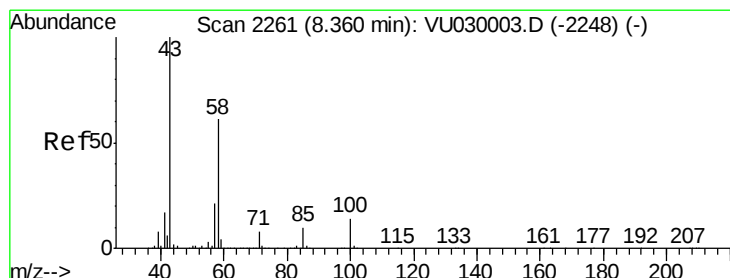
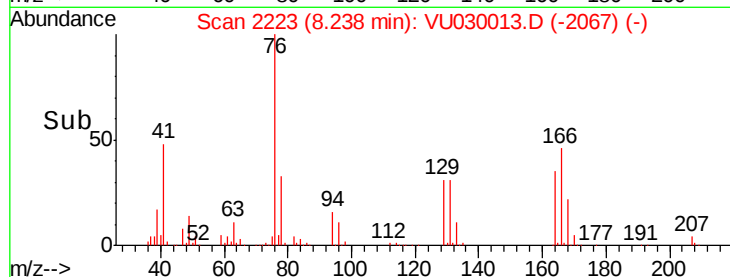
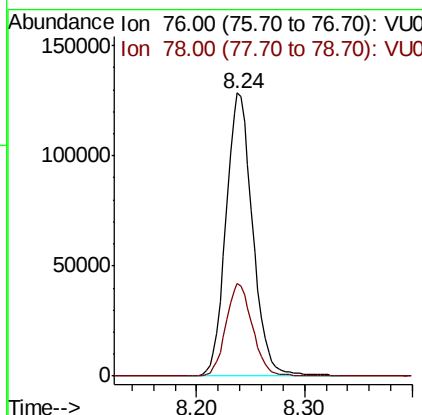
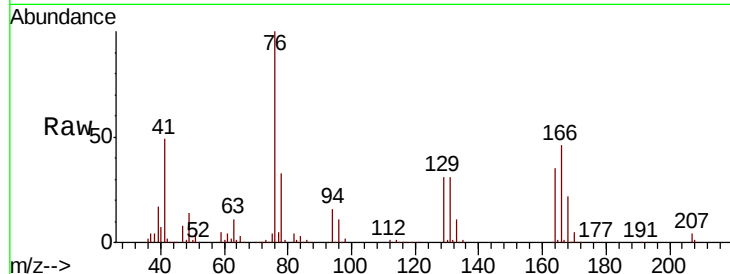
Instrument :
 MSVOA_U
 ClientSampleId :
 VSTDCCC010EC

Tgt Ion: 76 Resp: 221417
 Ion Ratio Lower Upper
 76 100
 78 32.6 26.4 39.6

Manual Integrations
 APPROVED

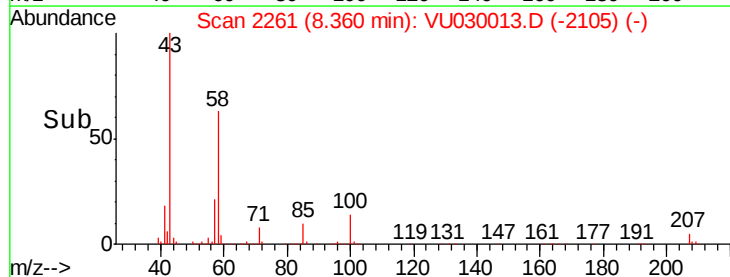
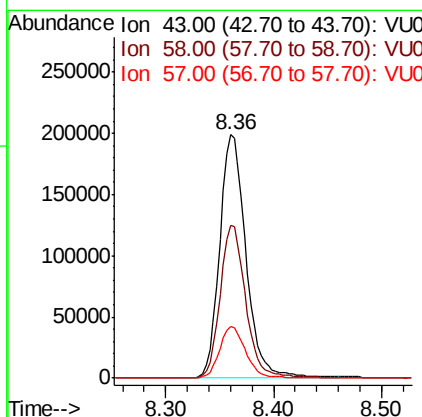
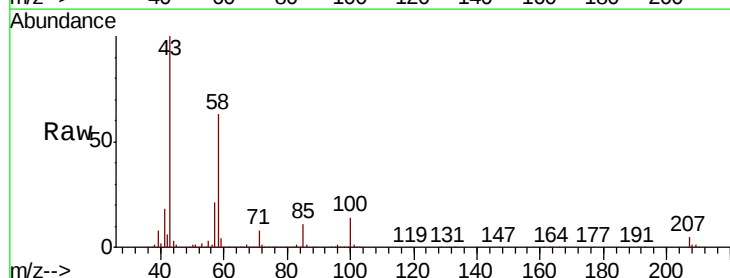
MMDadoda

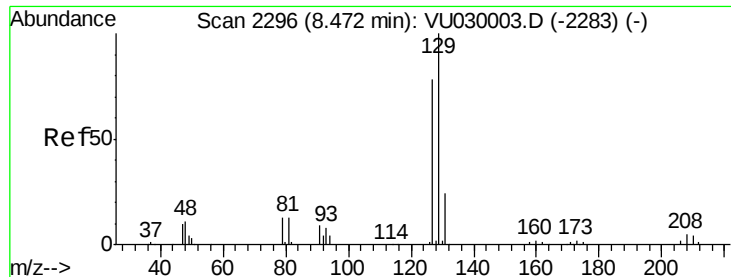
3/13/2019 12:56:41 PM



#54
 2-Hexanone
 Concen: 51.497 ug/l
 RT: 8.36 min Scan# 2261
 Delta R.T. 0.00 min
 Lab File: VU030013.D
 Acq: 12 Mar 2019 18:07

Tgt Ion: 43 Resp: 336692
 Ion Ratio Lower Upper
 43 100
 58 61.3 40.3 80.3
 57 21.1 0.6 40.6





#55
Dibromochloromethane
Concen: 10.566 ug/l
RT: 8.47 min Scan# 2296
Delta R.T. 0.00 min
Lab File: VU030013.D
Acq: 12 Mar 2019 18:07

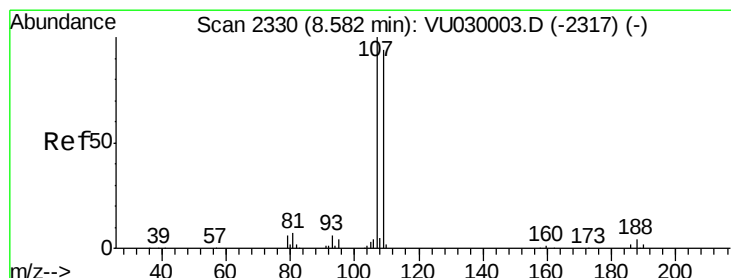
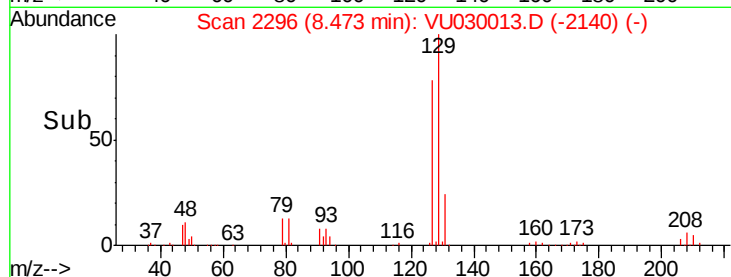
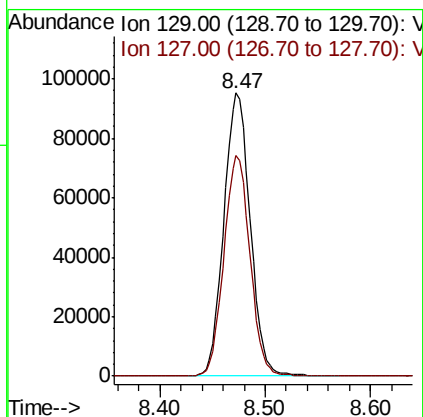
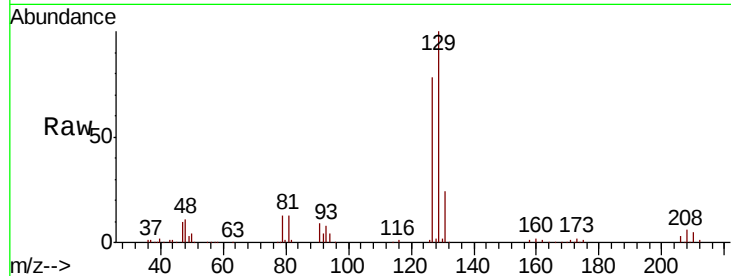
Instrument :
MSVOA_U
ClientSampleId :
VSTDCCC010EC

Tgt Ion	Ratio	Lower	Upper
129	100		
127	77.0	62.4	93.6

Manual Integrations
APPROVED

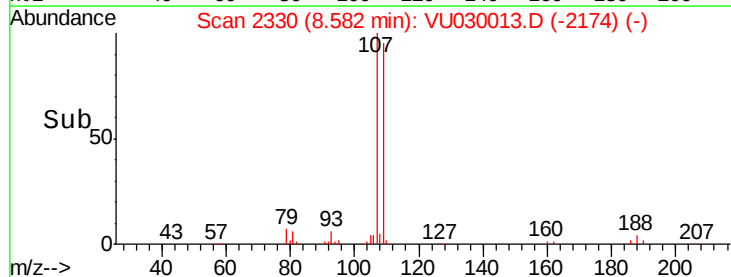
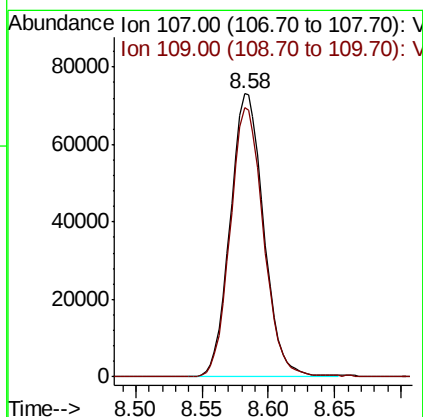
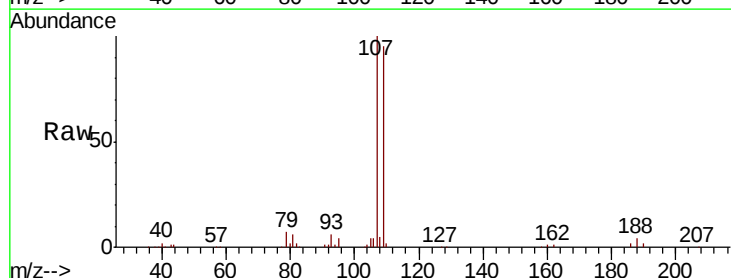
MMDadoda

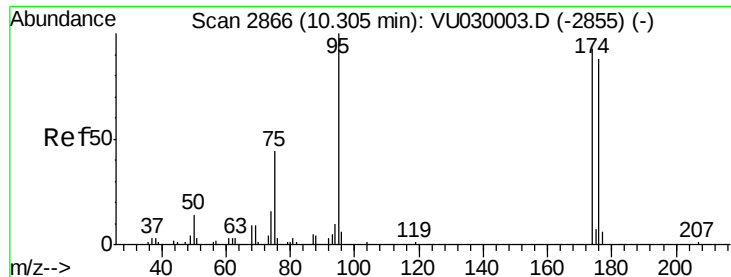
3/13/2019 12:56:41 PM



#56
1,2-Dibromoethane
Concen: 10.272 ug/l
RT: 8.58 min Scan# 2330
Delta R.T. 0.00 min
Lab File: VU030013.D
Acq: 12 Mar 2019 18:07

Tgt Ion	Ratio	Lower	Upper
107	100		
109	94.9	0.0	186.8





#57
4-Bromofluorobenzene
Concen: 10.272 ug/l
RT: 10.31 min Scan# 2866
Delta R.T. 0.00 min
Lab File: VU030013.D
Acq: 12 Mar 2019 18:07

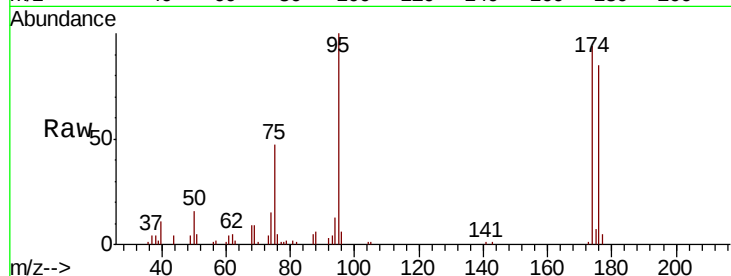
Instrument :
MSVOA_U
ClientSampleId :
VSTDCCC010EC

Tgt Ion	Ratio	Lower	Upper
95	100		
174	89.5	78.1	117.1
176	83.2	70.8	106.2

Manual Integrations
APPROVED

MMDadoda

3/13/2019 12:56:41 PM

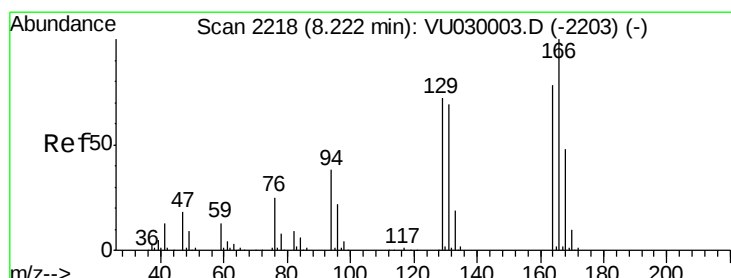
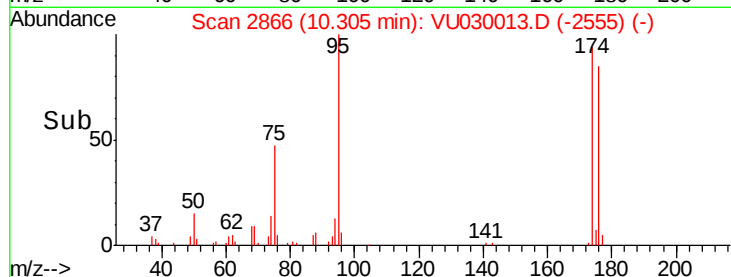
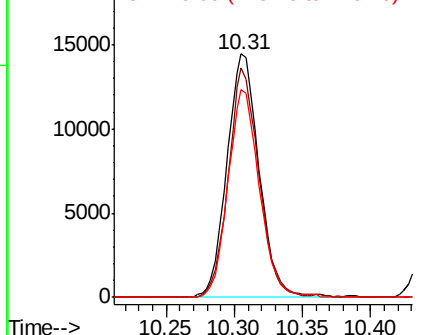


Abundance

Ion 95.00 (94.70 to 95.70): VU030013.D (-2555) (-)

Ion 174.00 (173.70 to 174.70): VU030013.D (-2555) (-)

Ion 176.00 (175.70 to 176.70): VU030013.D (-2555) (-)



#58
Tetrachloroethene
Concen: 10.133 ug/l
RT: 8.22 min Scan# 2218
Delta R.T. 0.00 min
Lab File: VU030013.D
Acq: 12 Mar 2019 18:07

Tgt Ion	Ratio	Lower	Upper
164	100		
166	126.3	103.2	154.8
129	89.6	74.5	111.7
131	89.7	70.9	106.3

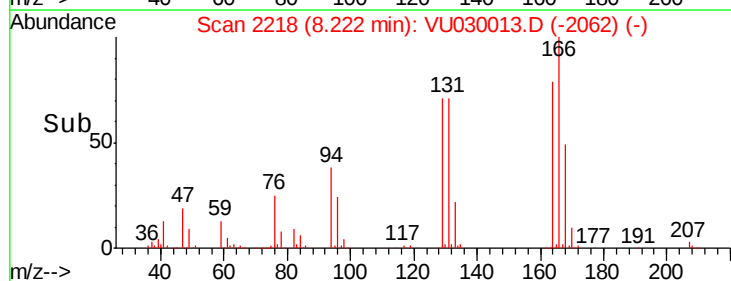
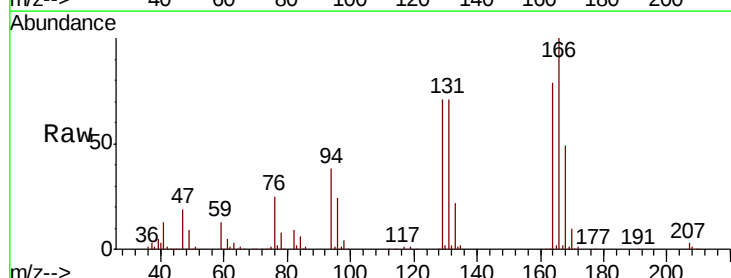
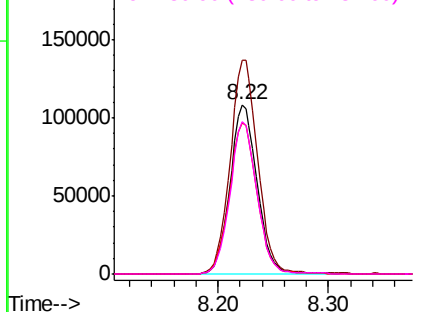
Abundance

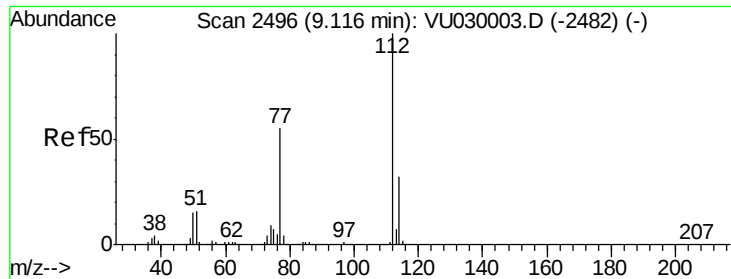
Ion 163.85 (163.55 to 164.55): VU030013.D (-2062) (-)

Ion 165.80 (165.50 to 166.50): VU030013.D (-2062) (-)

Ion 128.90 (128.60 to 129.60): VU030013.D (-2062) (-)

Ion 130.90 (130.60 to 131.60): VU030013.D (-2062) (-)





#59
Chlorobenzene
Concen: 10.370 ug/l
RT: 9.12 min Scan# 2496
Delta R.T. 0.00 min
Lab File: VU030013.D
Acq: 12 Mar 2019 18:07

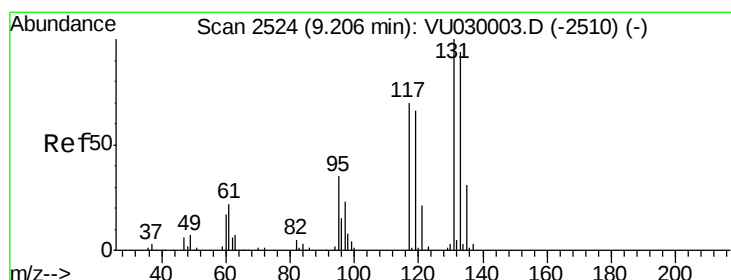
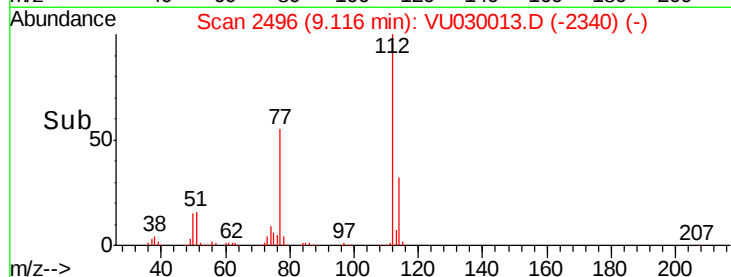
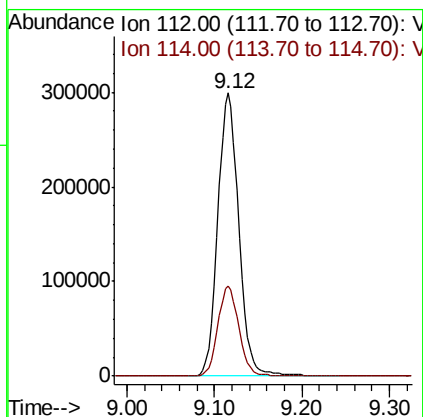
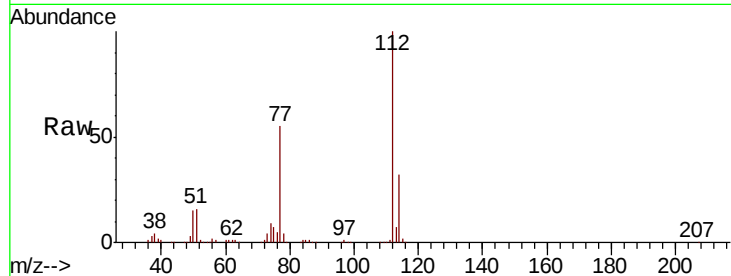
Instrument :
MSVOA_U
ClientSampleId :
VSTDCCC010EC

Tgt Ion:112 Resp: 498614
Ion Ratio Lower Upper
112 100
114 32.0 25.6 38.4

Manual Integrations
APPROVED

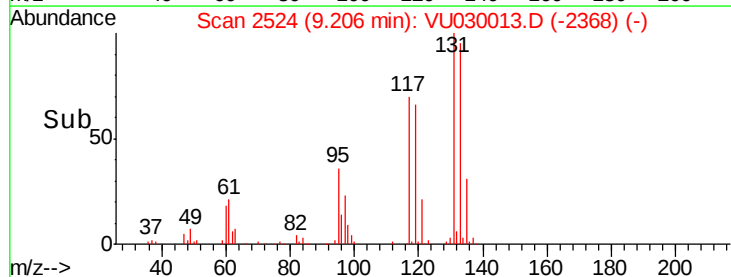
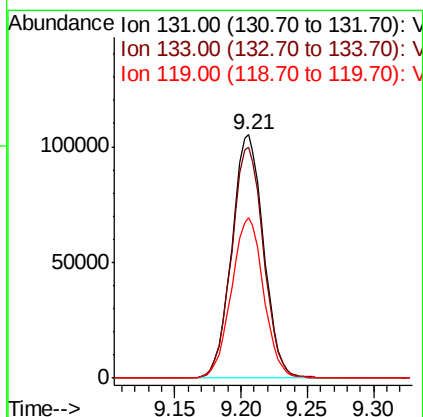
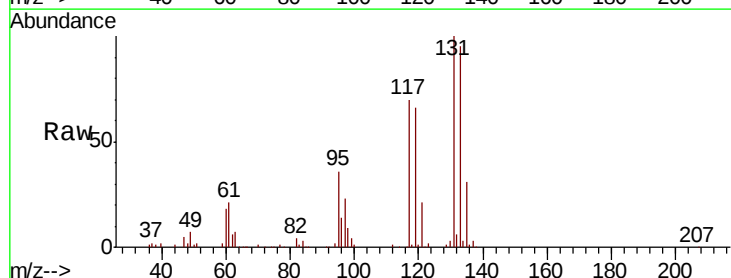
MMDadoda

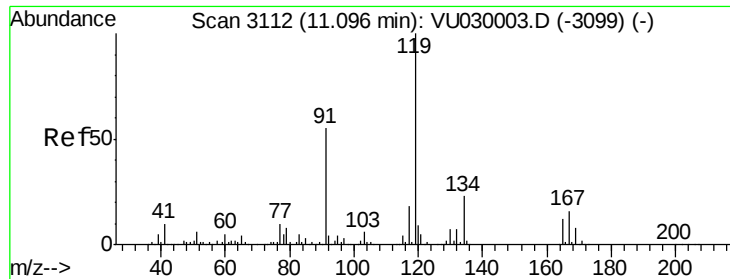
3/13/2019 12:56:41 PM



#60
1,1,1,2-Tetrachloroethane
Concen: 10.278 ug/l
RT: 9.21 min Scan# 2524
Delta R.T. 0.00 min
Lab File: VU030013.D
Acq: 12 Mar 2019 18:07

Tgt Ion:131 Resp: 174556
Ion Ratio Lower Upper
131 100
133 96.2 75.6 113.4
119 66.9 53.3 79.9





#61
 Pentachloroethane
 Concen: 10.144 ug/l
 RT: 11.10 min Scan# 3113
 Delta R.T. 0.00 min
 Lab File: VU030013.D
 Acq: 12 Mar 2019 18:07

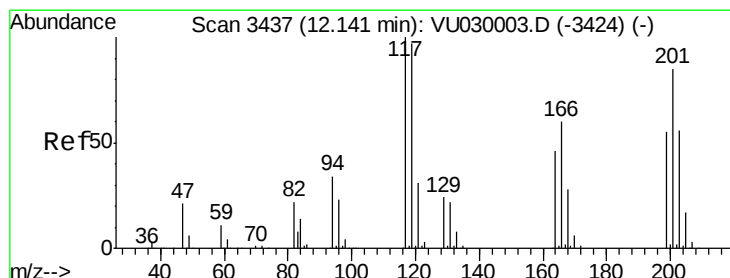
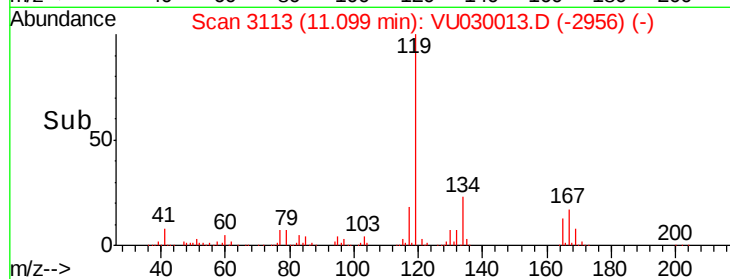
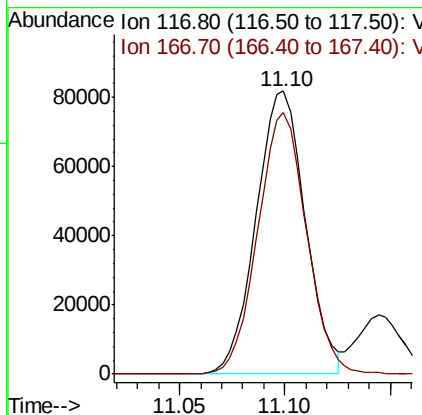
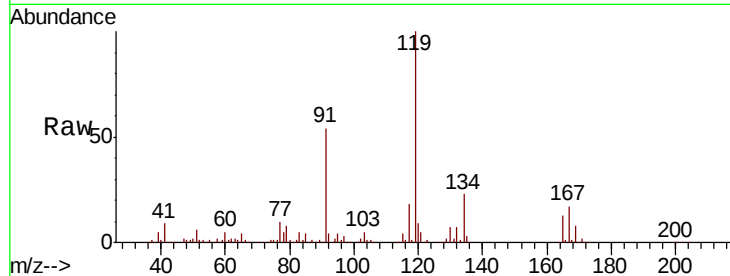
Instrument :
 MSVOA_U
 ClientSampleId :
 VSTDCCC010EC

Tgt Ion:117 Resp: 132954
 Ion Ratio Lower Upper
 117 100
 167 91.6 73.1 109.7

Manual Integrations
 APPROVED

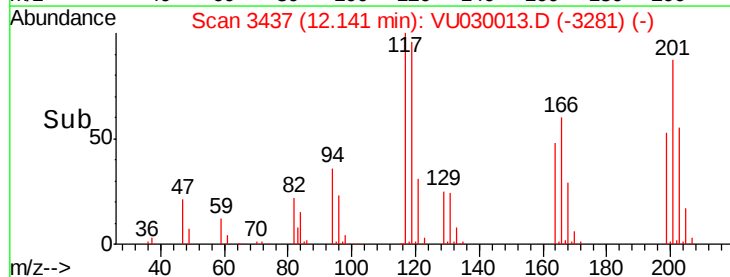
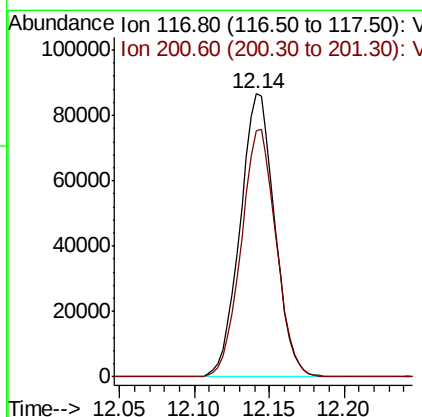
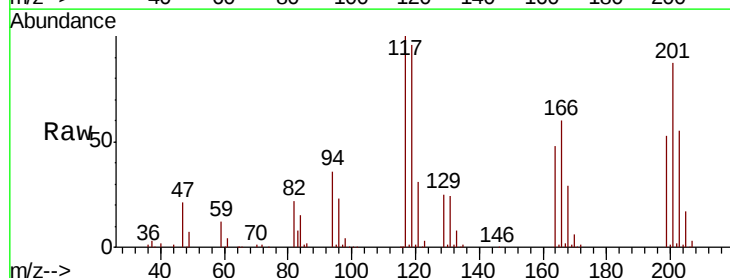
MMDadoda

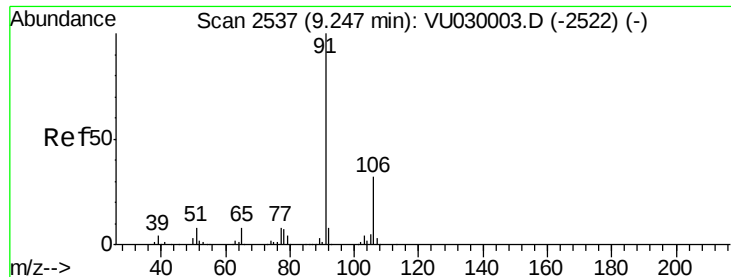
3/13/2019 12:56:41 PM



#62
 Hexachloroethane
 Concen: 10.579 ug/l
 RT: 12.14 min Scan# 3437
 Delta R.T. 0.00 min
 Lab File: VU030013.D
 Acq: 12 Mar 2019 18:07

Tgt Ion:117 Resp: 139707
 Ion Ratio Lower Upper
 117 100
 201 88.0 69.5 104.3





#63
Ethyl Benzene
Concen: 10.689 ug/l
RT: 9.25 min Scan# 2537
Delta R.T. 0.00 min
Lab File: VU030013.D
Acq: 12 Mar 2019 18:07

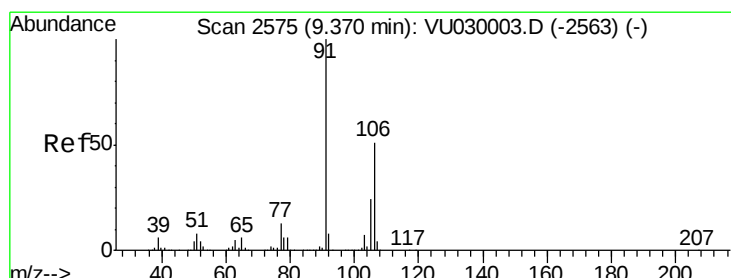
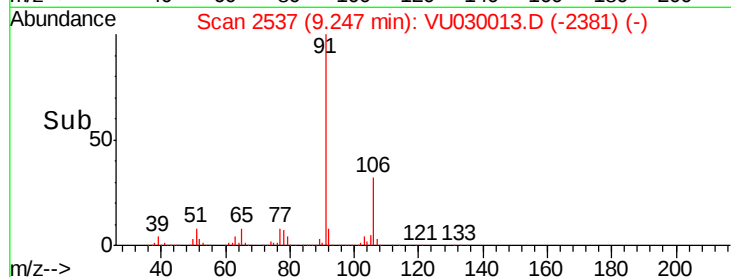
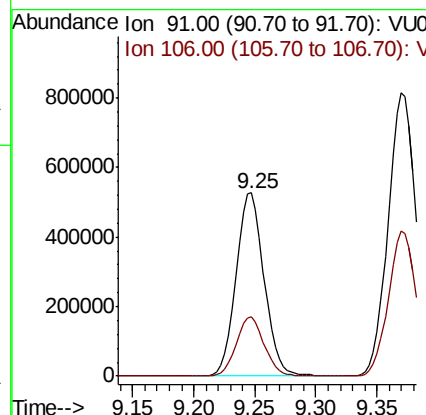
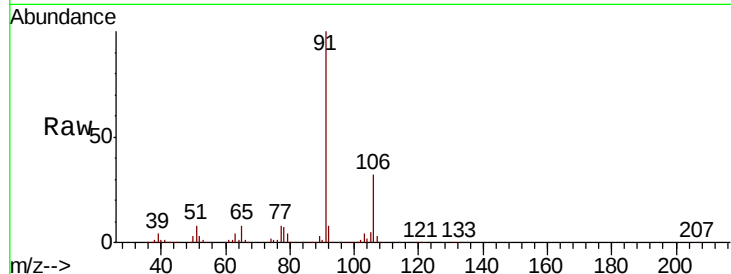
Instrument :
MSVOA_U
ClientSampleId :
VSTDCCC010EC

Tgt Ion: 91 Resp: 844092
Ion Ratio Lower Upper
91 100
106 32.2 25.7 38.5

Manual Integrations
APPROVED

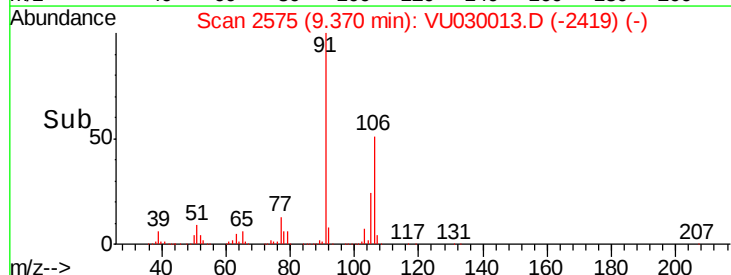
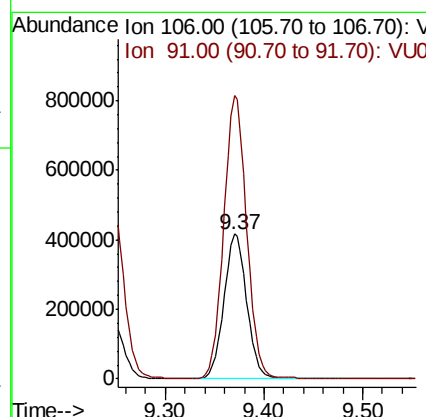
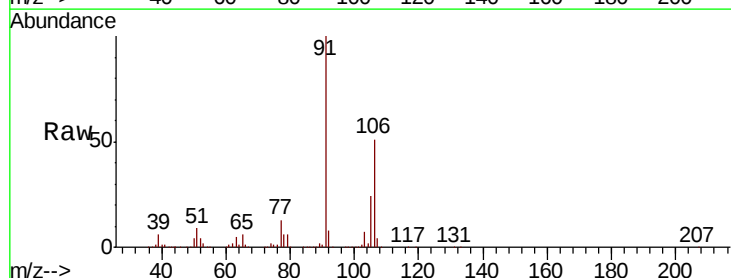
MMDadoda

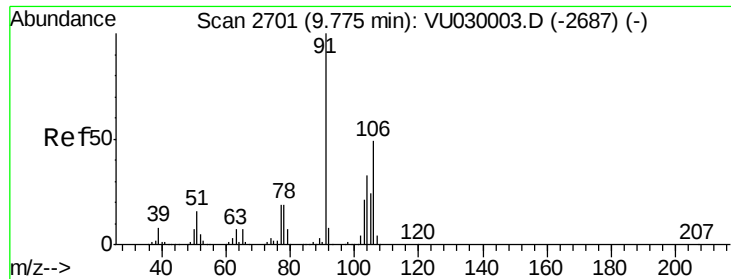
3/13/2019 12:56:41 PM



#64
m/p-Xylenes
Concen: 21.702 ug/l
RT: 9.37 min Scan# 2575
Delta R.T. 0.00 min
Lab File: VU030013.D
Acq: 12 Mar 2019 18:07

Tgt Ion: 106 Resp: 674260
Ion Ratio Lower Upper
106 100
91 196.6 157.9 236.9





#65
o-Xylene
Concen: 10.655 ug/l
RT: 9.77 min Scan# 2701
Delta R.T. 0.00 min
Lab File: VU030013.D
Acq: 12 Mar 2019 18:07

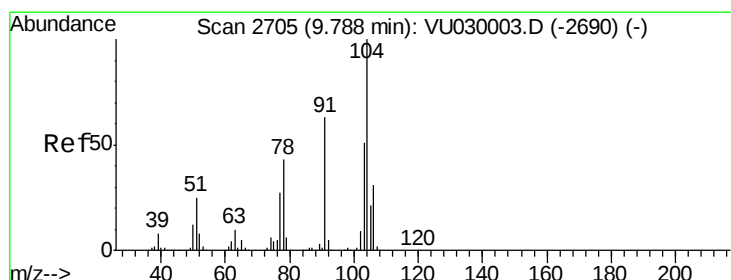
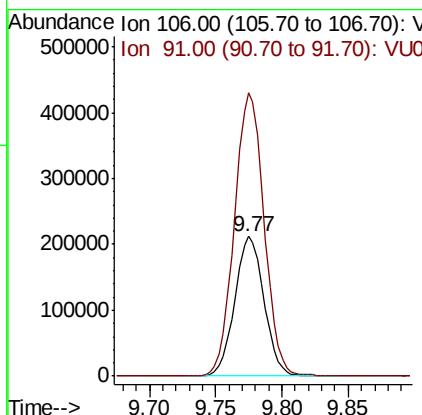
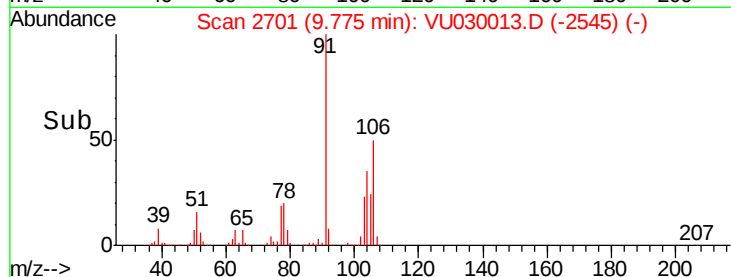
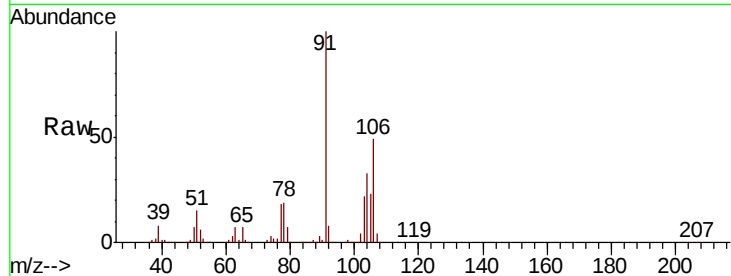
Instrument :
MSVOA_U
ClientSampleId :
VSTDCCC010EC

Tgt Ion:106 Resp: 324686
Ion Ratio Lower Upper
106 100
91 206.1 103.2 309.4

Manual Integrations
APPROVED

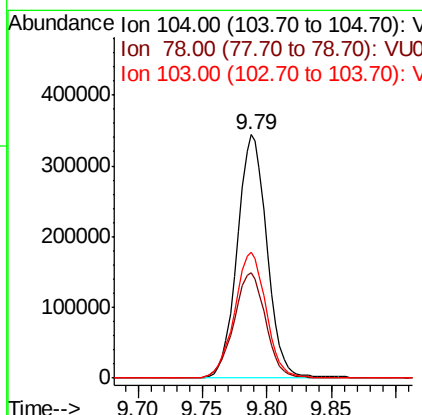
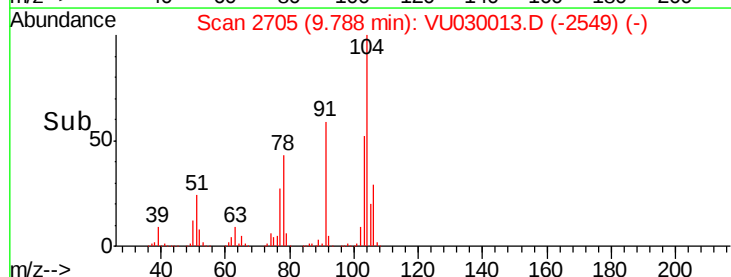
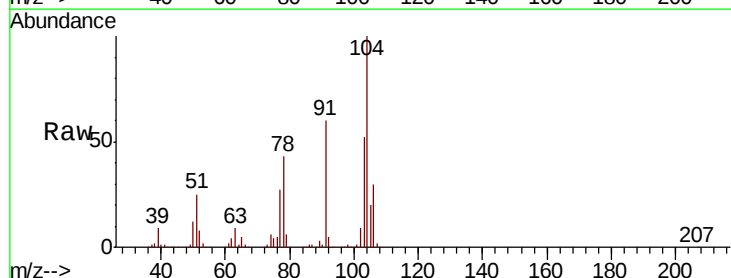
MMDadoda

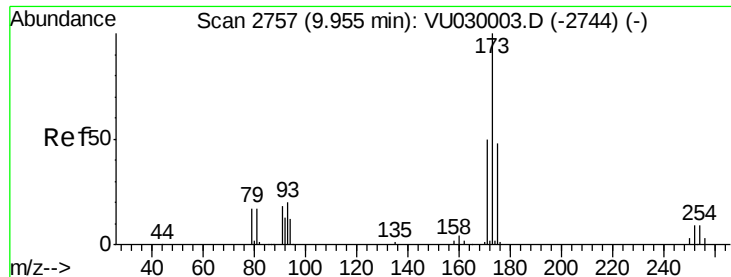
3/13/2019 12:56:41 PM



#66
Styrene
Concen: 11.016 ug/l
RT: 9.79 min Scan# 2705
Delta R.T. 0.00 min
Lab File: VU030013.D
Acq: 12 Mar 2019 18:07

Tgt Ion:104 Resp: 550226
Ion Ratio Lower Upper
104 100
78 46.6 37.0 55.4
103 55.3 43.8 65.6





#67

Bromoform

Concen: 11.047 ug/l

RT: 9.95 min Scan# 2757

Delta R.T. 0.00 min

Lab File: VU030013.D

Acq: 12 Mar 2019 18:07

Instrument :

MSVOA_U

ClientSampleId :

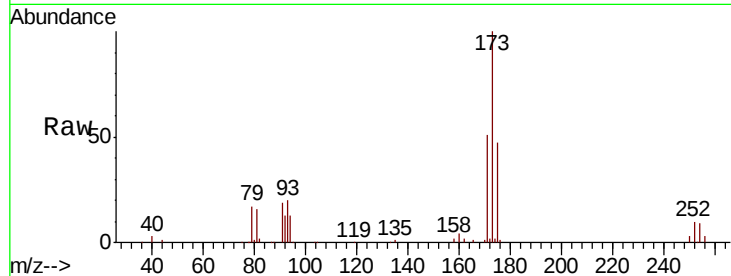
VSTDCCC010EC

Tgt Ion:	173	Resp:	98629
Ion Ratio	Lower	Upper	
173	100		
175	46.7	39.0	58.4
254	9.0	7.0	10.4

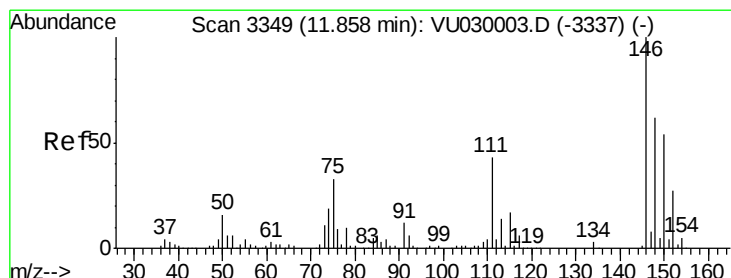
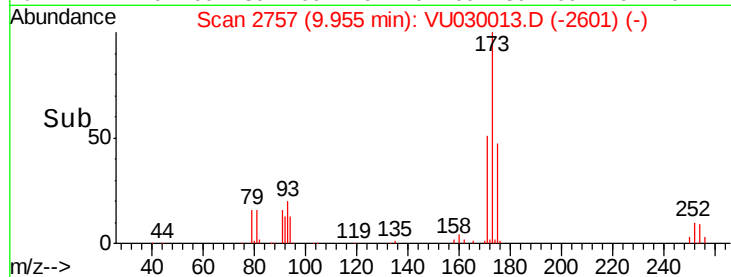
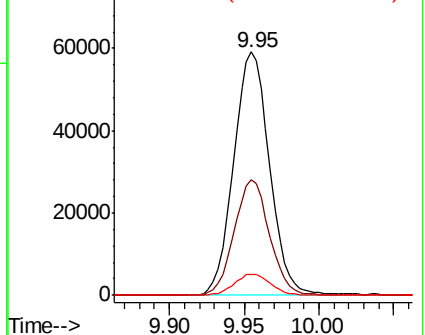
Manual Integrations
APPROVED

MMDadoda

3/13/2019 12:56:41 PM



Abundance Ion 172.90 (172.60 to 173.60): V
Ion 174.90 (174.60 to 175.60): V
Ion 253.75 (253.45 to 254.45): V



#68

1,2-Dichlorobenzene-d4

Concen: 11.047 ug/l

RT: 11.86 min Scan# 3348

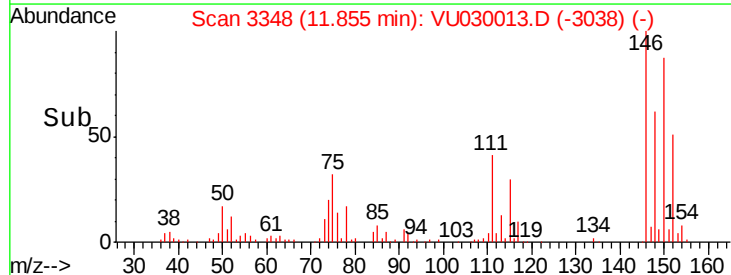
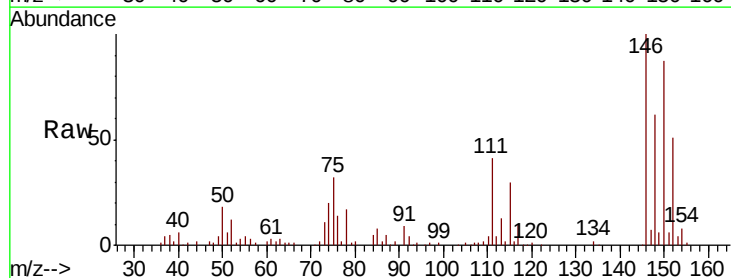
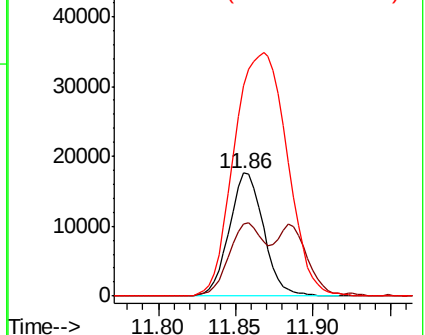
Delta R.T. -0.00 min

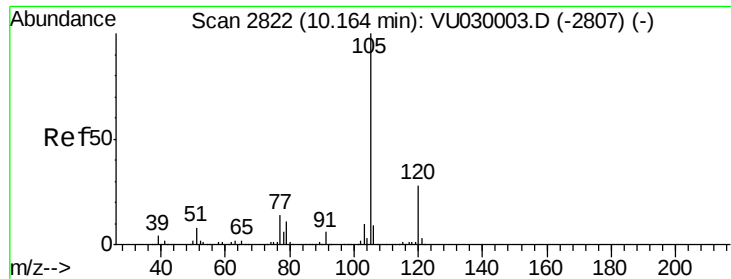
Lab File: VU030013.D

Acq: 12 Mar 2019 18:07

Tgt Ion:	152	Resp:	27225
Ion Ratio	Lower	Upper	
152	100		
115	60.2	0.0	126.8
150	304.4	0.0	634.2

Abundance Ion 152.00 (151.70 to 152.70): V
Ion 115.00 (114.70 to 115.70): V
Ion 150.00 (149.70 to 150.70): V





#69
Isopropylbenzene
Concen: 10.713 ug/l
RT: 10.16 min Scan# 2822
Delta R.T. 0.00 min
Lab File: VU030013.D
Acq: 12 Mar 2019 18:07

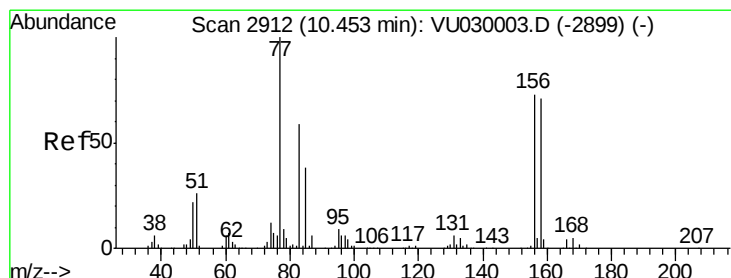
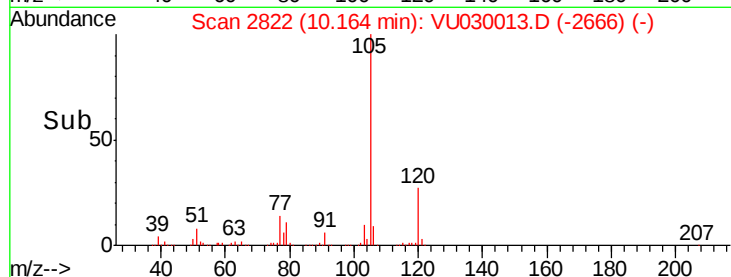
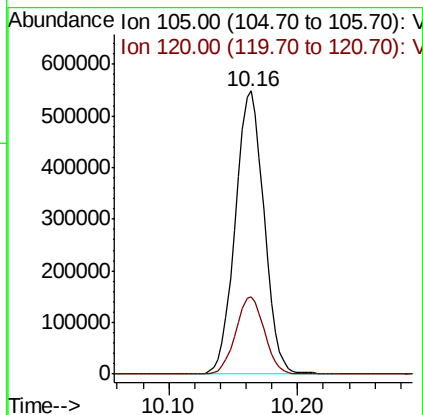
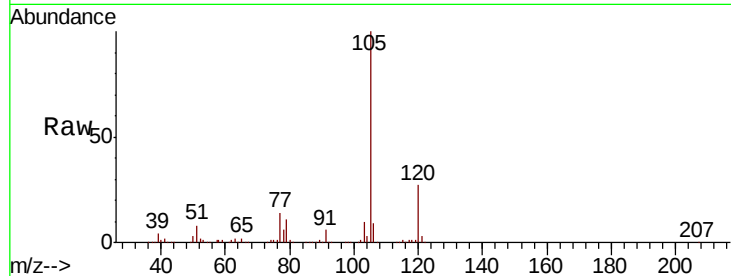
Instrument :
MSVOA_U
ClientSampleId :
VSTDCCC010EC

Tgt Ion	Ratio	Lower	Upper
105	100		
120	27.1	13.5	40.5

Manual Integrations
APPROVED

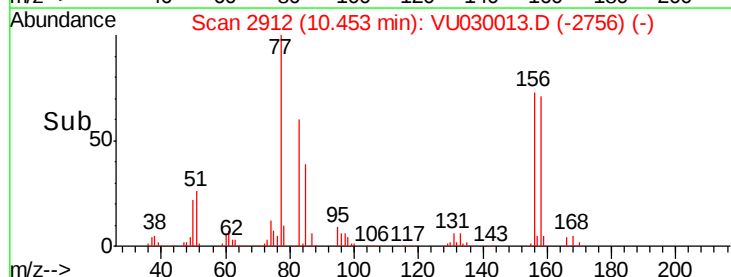
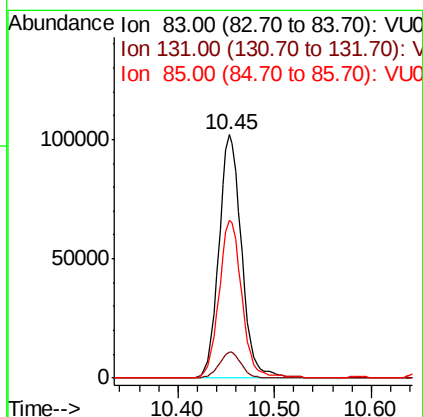
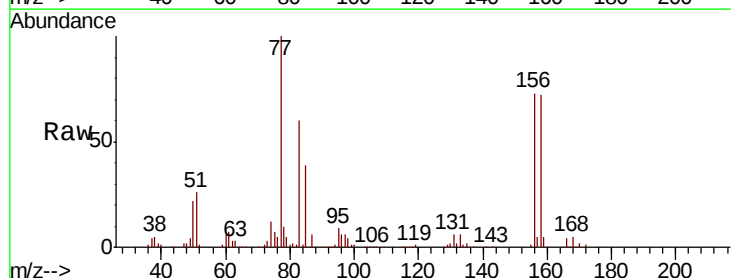
MMDadoda

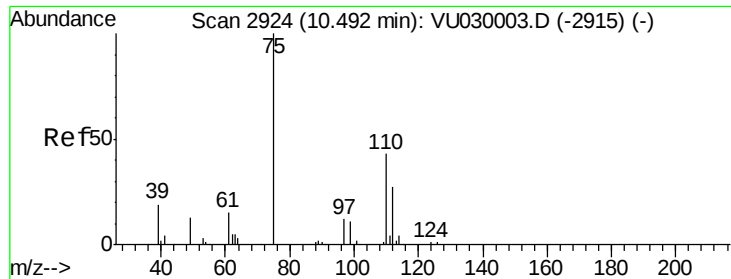
3/13/2019 12:56:41 PM



#70
1,1,2,2-Tetrachloroethane
Concen: 10.375 ug/l
RT: 10.45 min Scan# 2912
Delta R.T. 0.00 min
Lab File: VU030013.D
Acq: 12 Mar 2019 18:07

Tgt Ion	Ratio	Lower	Upper
83	100		
131	10.4	8.4	12.6
85	65.2	52.6	78.8





#71
1,2,3-Trichloropropane
Concen: 9.673 ug/l m
RT: 10.49 min Scan# 2924
Delta R.T. 0.00 min
Lab File: VU030013.D
Acq: 12 Mar 2019 18:07

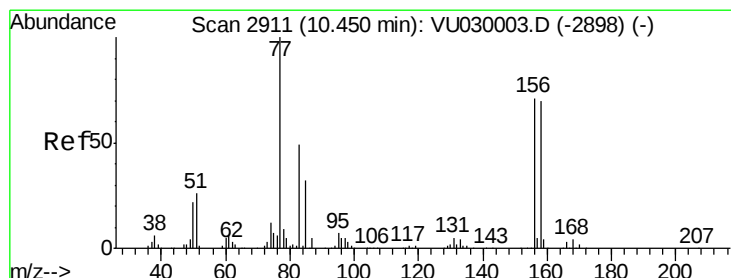
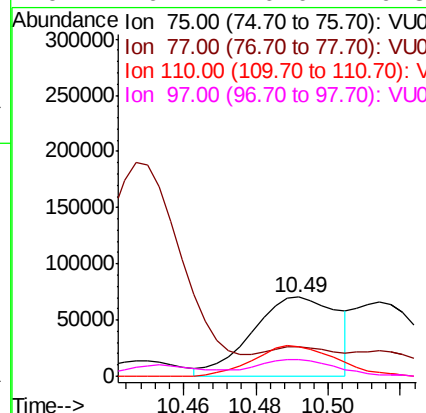
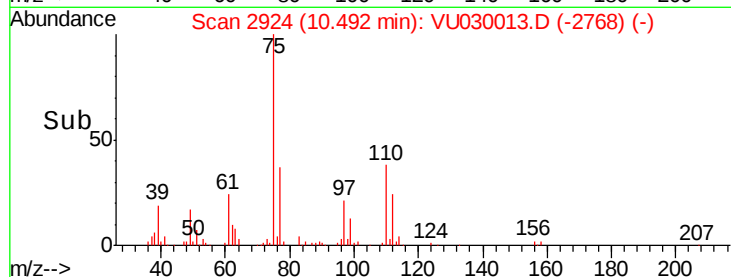
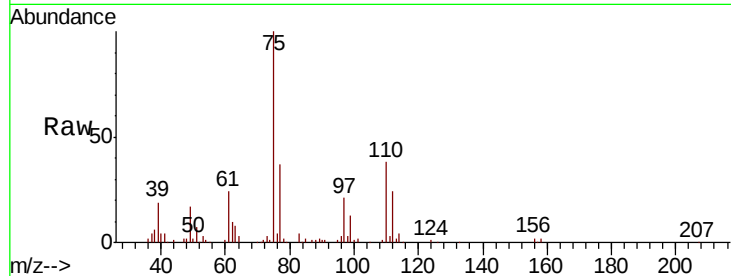
Instrument :
MSVOA_U
ClientSampleId :
VSTDCCC010EC

Tgt Ion	Ratio	Lower	Upper
75	100		
77	8.0	0.0	16.8
110	37.7	0.0	76.8
97	20.1	0.0	40.8

Manual Integrations
APPROVED

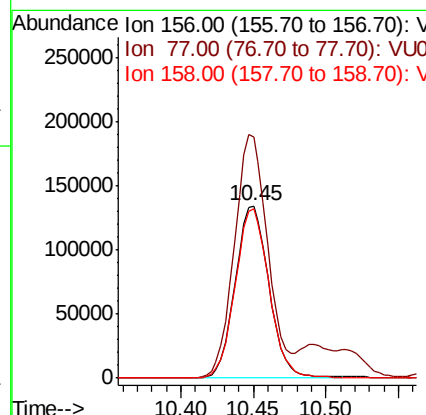
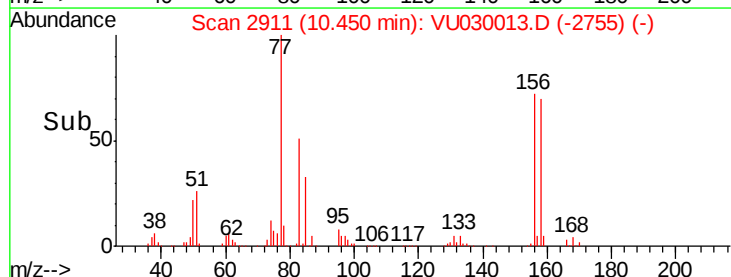
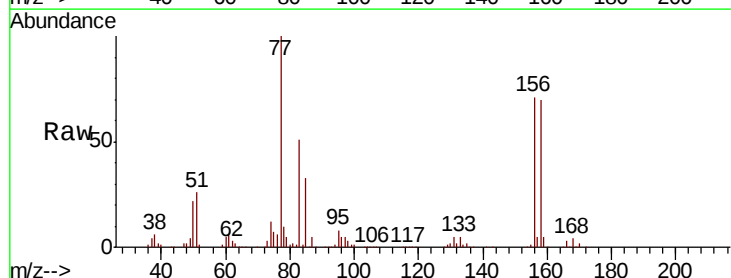
MMDadoda

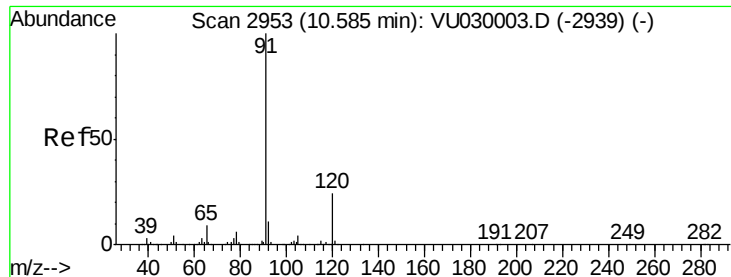
3/13/2019 12:56:41 PM



#72
Bromobenzene
Concen: 10.443 ug/l
RT: 10.45 min Scan# 2911
Delta R.T. 0.00 min
Lab File: VU030013.D
Acq: 12 Mar 2019 18:07

Tgt Ion	Ratio	Lower	Upper
156	100		
77	139.4	0.0	278.6
158	98.7	0.0	195.2





#73

n-propylbenzene

Concen: 10.913 ug/l

RT: 10.58 min Scan# 2953

Delta R.T. 0.00 min

Lab File: VU030013.D

Acq: 12 Mar 2019 18:07

Instrument :

MSVOA_U

ClientSampleId :

VSTDCCC010EC

Tgt Ion:120 Resp: 245984

Ion Ratio Lower Upper

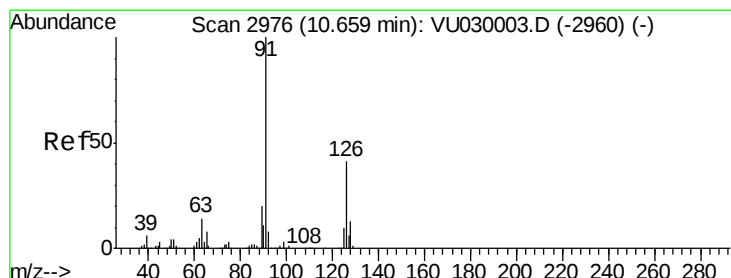
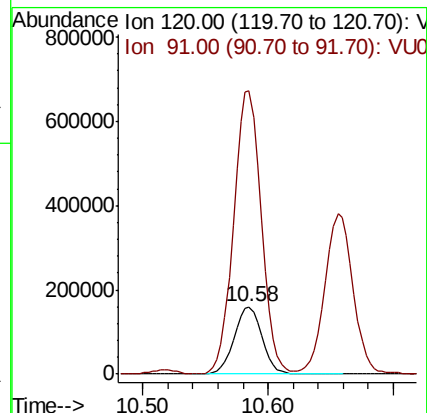
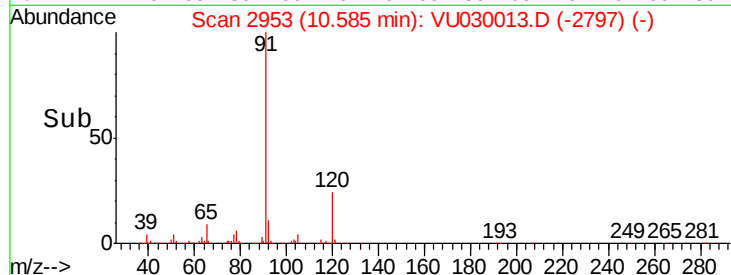
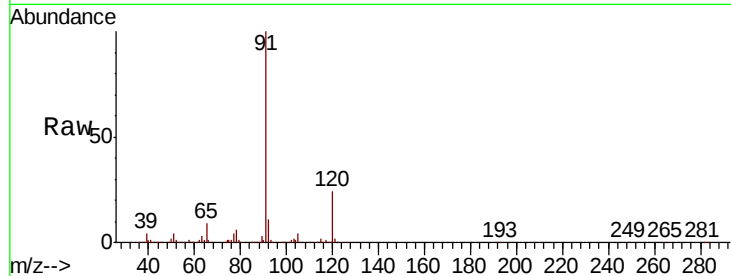
120 100

91 416.0 335.4 503.0

Manual Integrations
APPROVED

MMDadoda

3/13/2019 12:56:41 PM



#74

2-Chlorotoluene

Concen: 10.520 ug/l

RT: 10.66 min Scan# 2975

Delta R.T. -0.00 min

Lab File: VU030013.D

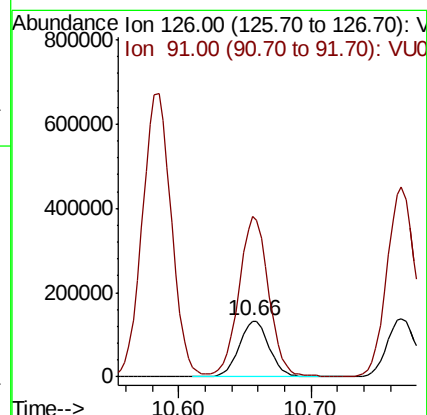
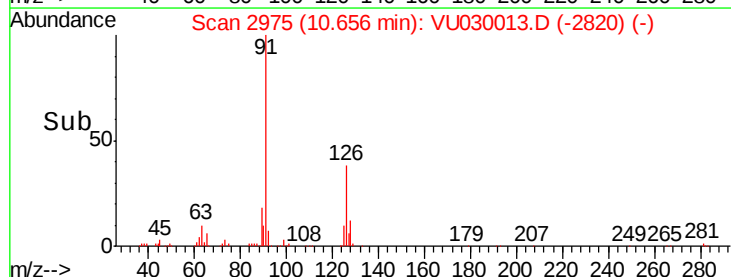
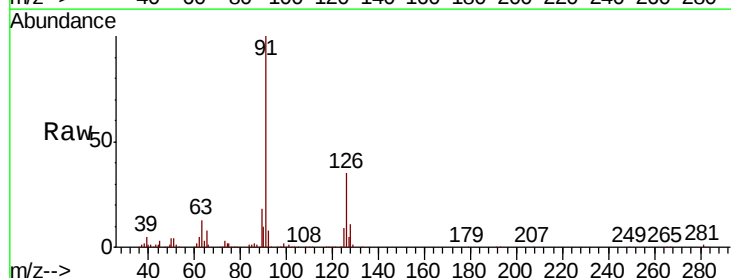
Acq: 12 Mar 2019 18:07

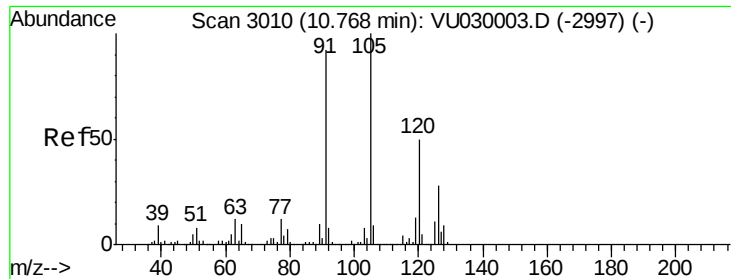
Tgt Ion:126 Resp: 207652

Ion Ratio Lower Upper

126 100

91 282.2 0.0 561.0





#75
 1,3,5-Trimethylbenzene
 Concen: 10.796 ug/l
 RT: 10.77 min Scan# 3010
 Delta R.T. 0.00 min
 Lab File: VU030013.D
 Acq: 12 Mar 2019 18:07

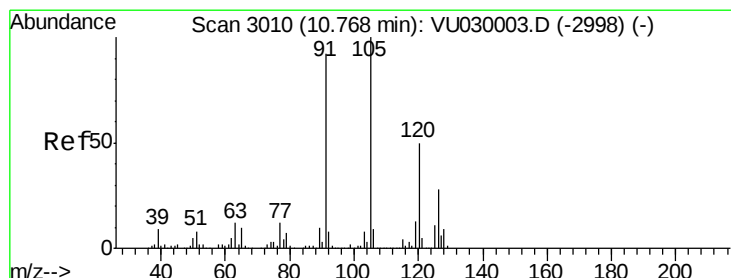
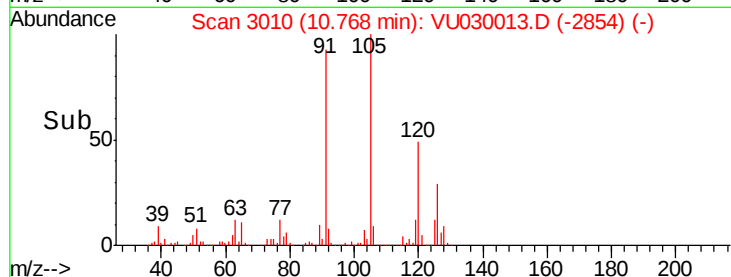
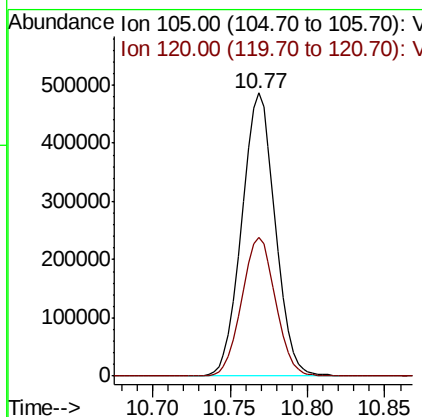
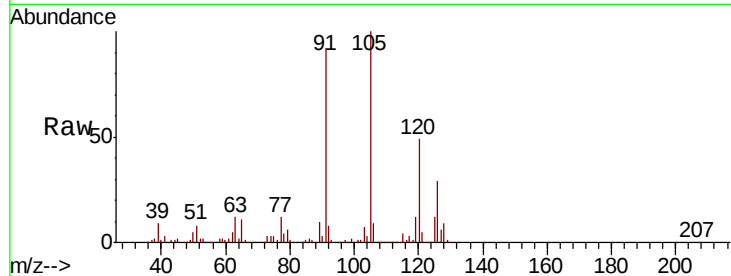
Instrument :
 MSVOA_U
 ClientSampleId :
 VSTDCCC010EC

Tgt Ion:105 Resp: 730793
 Ion Ratio Lower Upper
 105 100
 120 49.9 39.8 59.8

Manual Integrations
 APPROVED

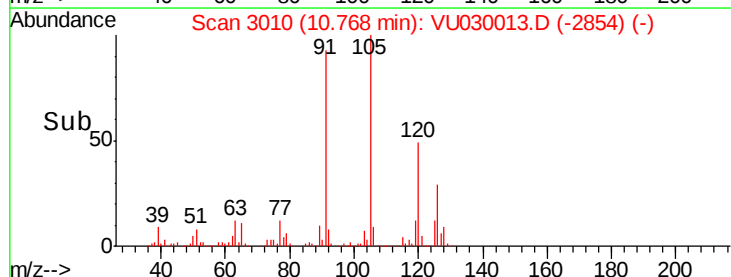
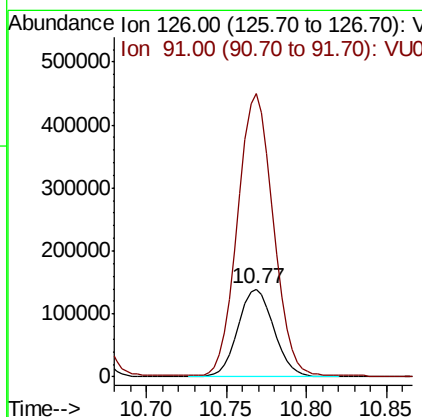
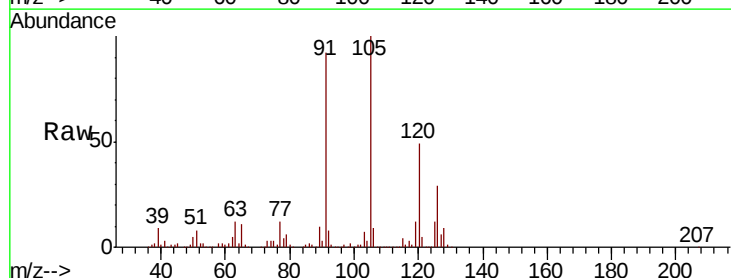
MMDadoda

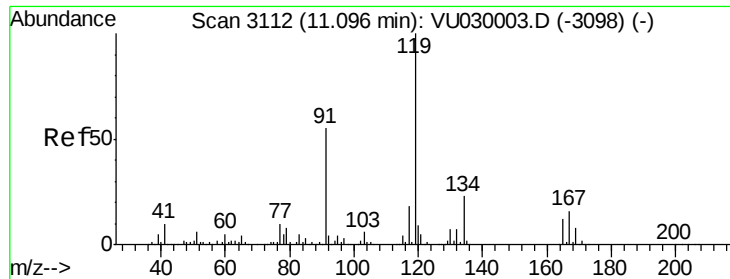
3/13/2019 12:56:41 PM



#76
 4-Chlorotoluene
 Concen: 10.464 ug/l
 RT: 10.77 min Scan# 3010
 Delta R.T. 0.00 min
 Lab File: VU030013.D
 Acq: 12 Mar 2019 18:07

Tgt Ion:126 Resp: 210834
 Ion Ratio Lower Upper
 126 100
 91 327.7 0.0 641.8





#77
 tert-Butylbenzene
 Concen: 10.788 ug/l
 RT: 11.10 min Scan# 3112
 Delta R.T. 0.00 min
 Lab File: VU030013.D
 Acq: 12 Mar 2019 18:07

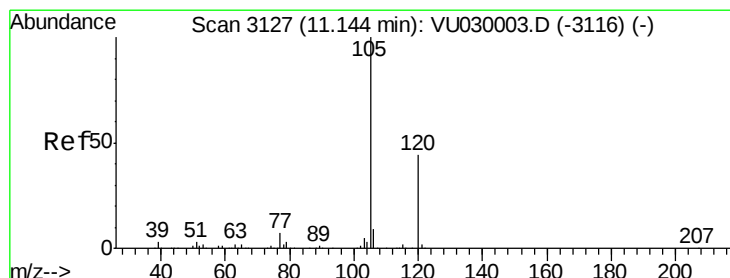
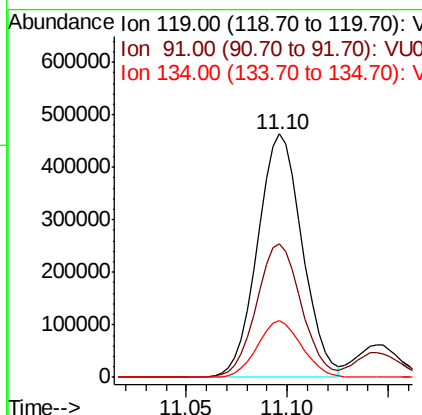
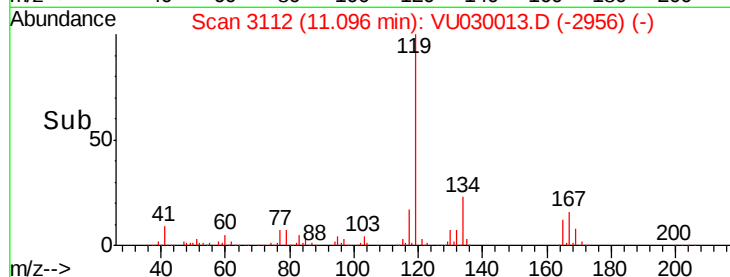
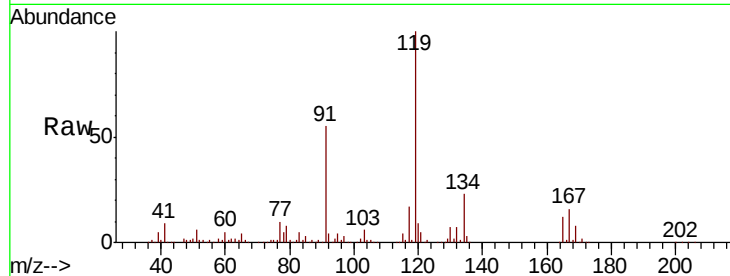
Instrument :
 MSVOA_U
 ClientSampleId :
 VSTDCCC010EC

Tgt Ion	Ratio	Lower	Upper
119	100		
91	55.3	27.6	82.8
134	23.4	18.7	28.1

Manual Integrations
 APPROVED

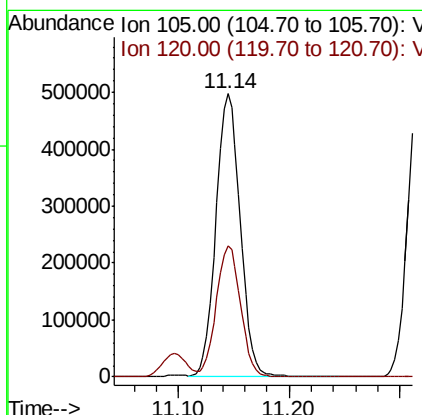
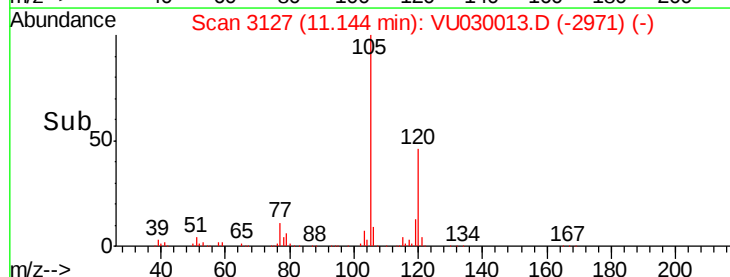
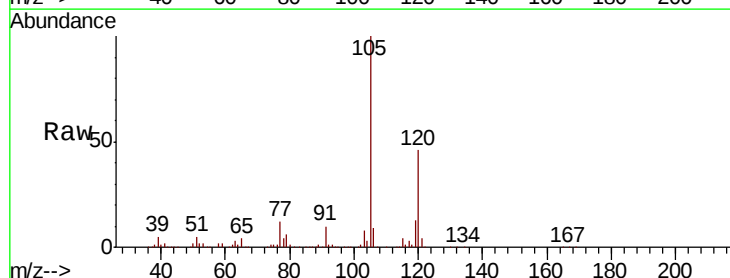
MMDadoda

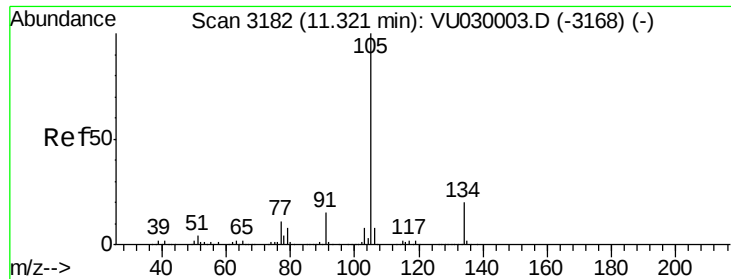
3/13/2019 12:56:41 PM



#78
 1,2,4-Trimethylbenzene
 Concen: 10.999 ug/l
 RT: 11.14 min Scan# 3127
 Delta R.T. 0.00 min
 Lab File: VU030013.D
 Acq: 12 Mar 2019 18:07

Tgt Ion	Ratio	Lower	Upper
105	100		
120	46.6	23.5	70.6





#79
 sec-Butylbenzene
 Concen: 10.811 ug/l
 RT: 11.32 min Scan# 3182
 Delta R.T. 0.00 min
 Lab File: VU030013.D
 Acq: 12 Mar 2019 18:07

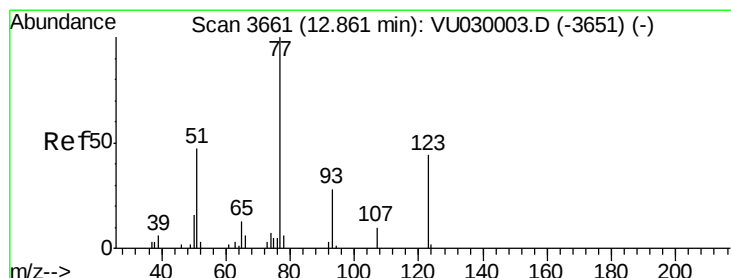
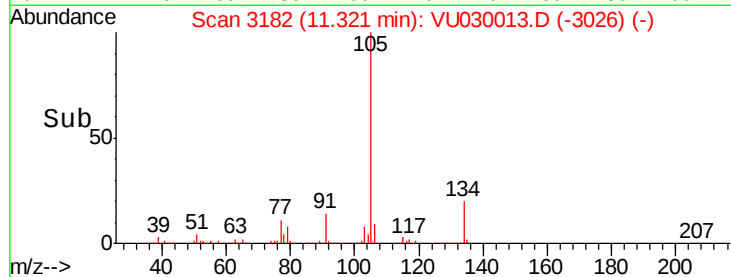
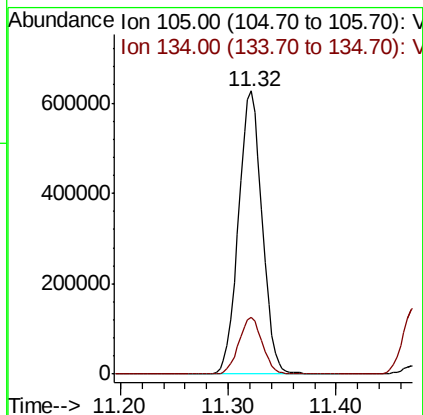
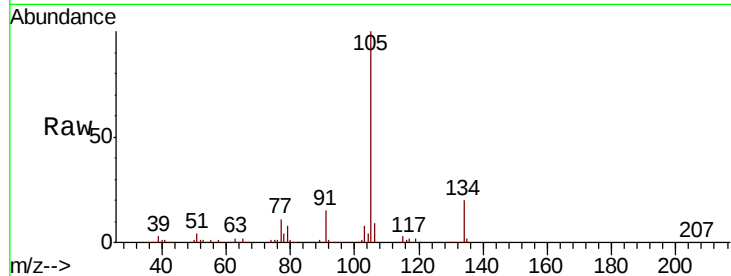
Instrument :
 MSVOA_U
 ClientSampleId :
 VSTDCCC010EC

Tgt Ion: 105 Resp: 959536
 Ion Ratio Lower Upper
 105 100
 134 20.0 16.1 24.1

Manual Integrations
 APPROVED

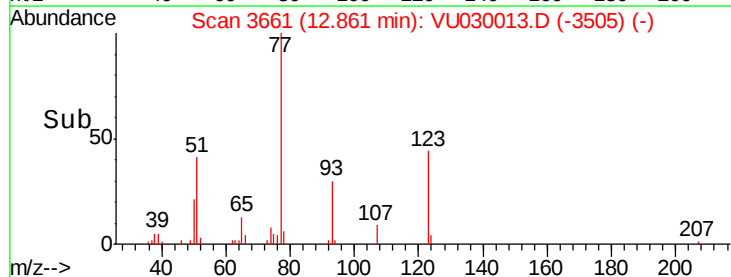
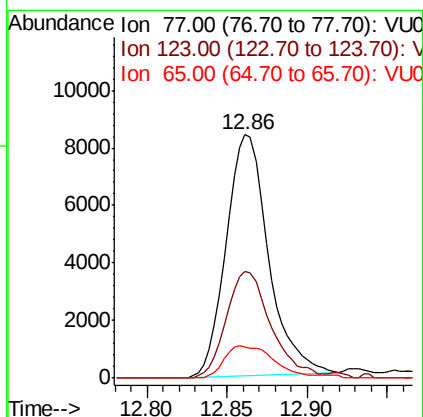
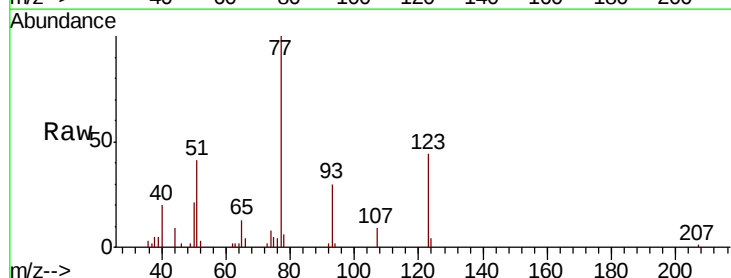
MMDadoda

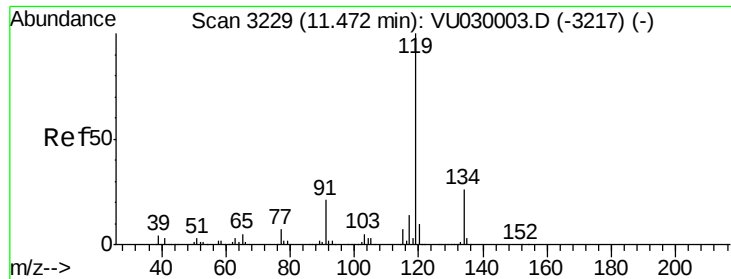
3/13/2019 12:56:41 PM



#80
 Nitrobenzene
 Concen: 53.039 ug/l
 RT: 12.86 min Scan# 3661
 Delta R.T. 0.00 min
 Lab File: VU030013.D
 Acq: 12 Mar 2019 18:07

Tgt Ion: 77 Resp: 15162
 Ion Ratio Lower Upper
 77 100
 123 44.7 19.9 70.5
 65 13.9 10.8 13.8#





#81
 p-Isopropyltoluene
 Concen: 10.873 ug/l
 RT: 11.47 min Scan# 3229
 Delta R.T. 0.00 min
 Lab File: VU030013.D
 Acq: 12 Mar 2019 18:07

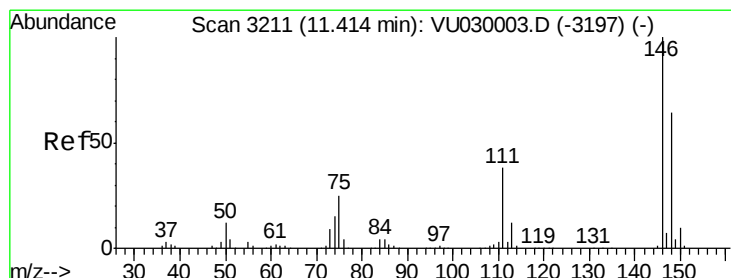
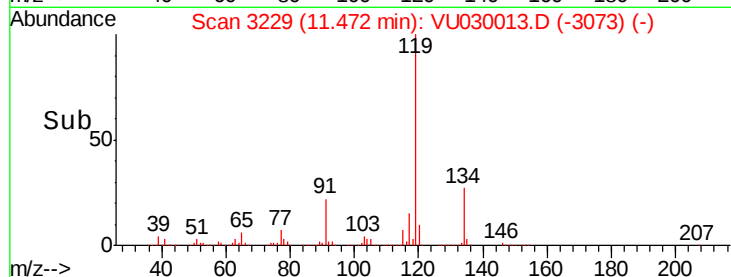
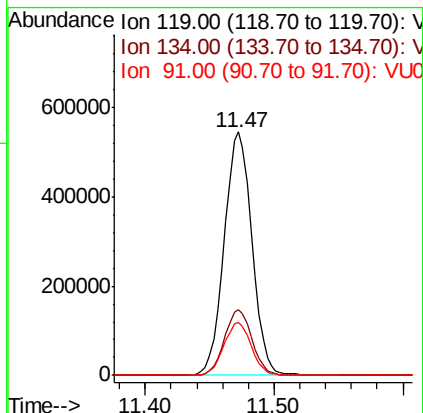
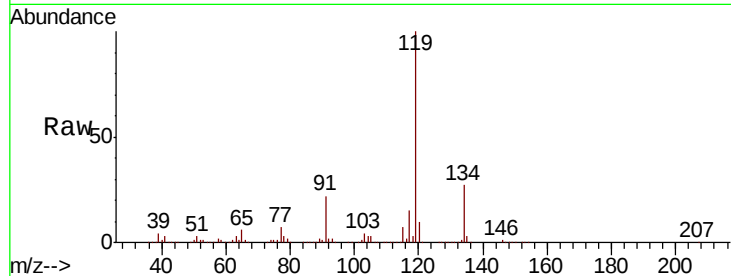
Instrument :
 MSVOA_U
 ClientSampleId :
 VSTDCCC010EC

Tgt Ion	Ratio	Lower	Upper
119	100		
134	26.8	21.2	31.8
91	21.7	17.0	25.6

Manual Integrations
 APPROVED

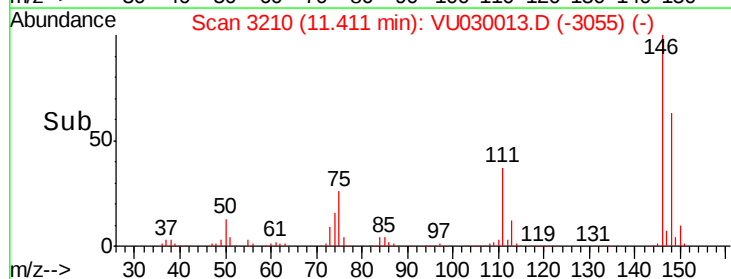
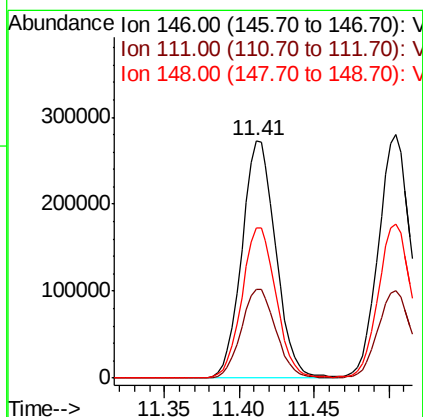
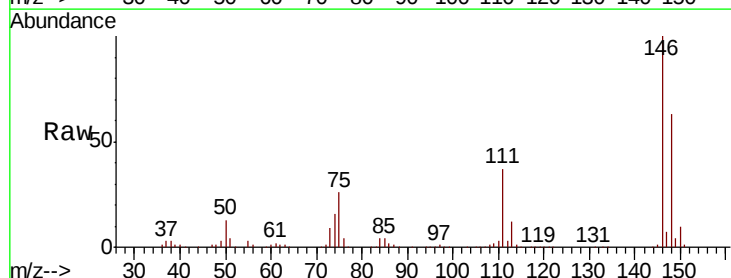
MMDadoda

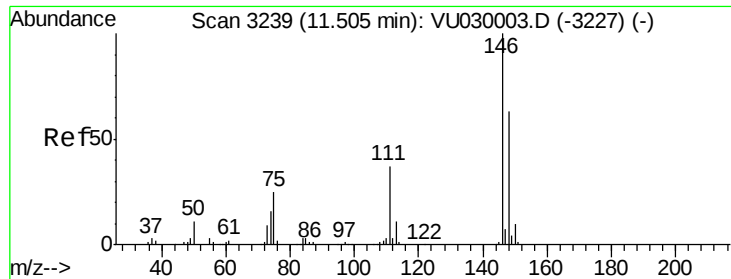
3/13/2019 12:56:41 PM



#82
 1,3-Dichlorobenzene
 Concen: 10.245 ug/l
 RT: 11.41 min Scan# 3210
 Delta R.T. -0.00 min
 Lab File: VU030013.D
 Acq: 12 Mar 2019 18:07

Tgt Ion	Ratio	Lower	Upper
146	100		
111	38.2	30.3	45.5
148	63.7	51.1	76.7





#83
1,4-Dichlorobenzene
Concen: 10.159 ug/l
RT: 11.50 min Scan# 3239
Delta R.T. 0.00 min
Lab File: VU030013.D
Acq: 12 Mar 2019 18:07

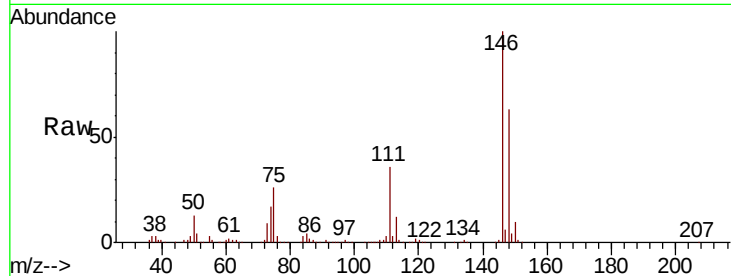
Instrument :
MSVOA_U
ClientSampleId :
VSTDCCC010EC

Tgt Ion	Ratio	Lower	Upper
146	100		
111	36.7	29.3	43.9
148	64.6	50.6	76.0

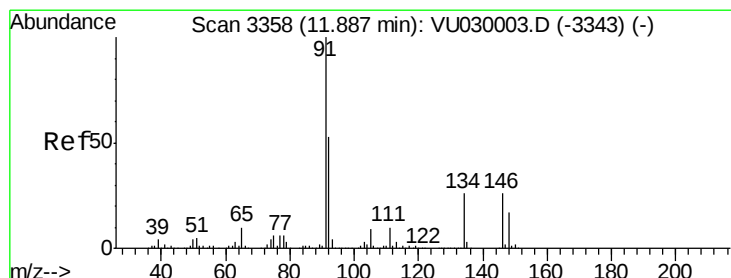
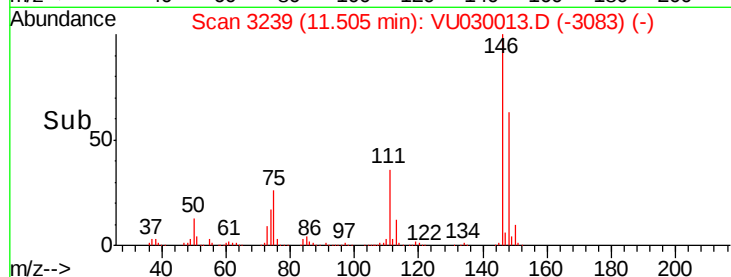
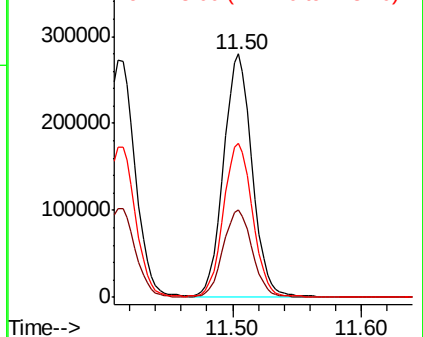
Manual Integrations
APPROVED

MMDadoda

3/13/2019 12:56:41 PM

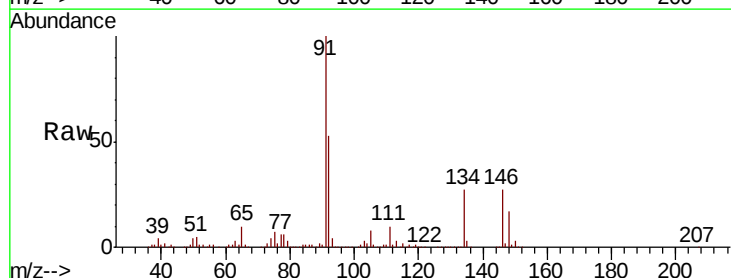


Abundance Ion 146.00 (145.70 to 146.70): V
Ion 111.00 (110.70 to 111.70): V
Ion 148.00 (147.70 to 148.70): V

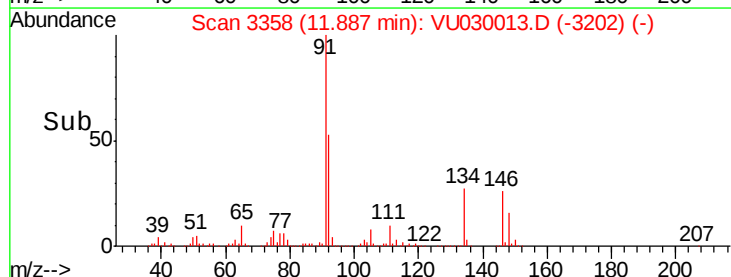
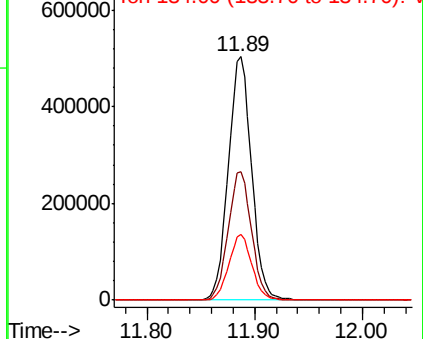


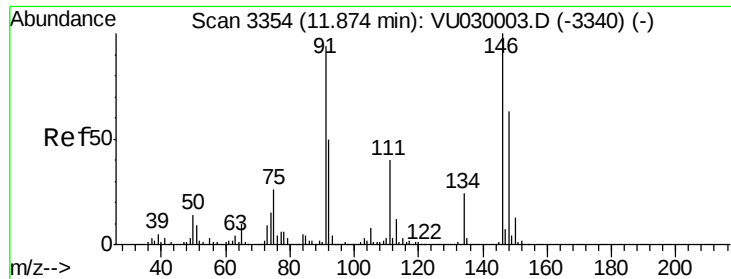
#84
n-Butylbenzene
Concen: 10.876 ug/l
RT: 11.89 min Scan# 3358
Delta R.T. 0.00 min
Lab File: VU030013.D
Acq: 12 Mar 2019 18:07

Tgt Ion	Ratio	Lower	Upper
91	100		
92	52.9	42.4	63.6
134	26.7	21.4	32.0



Abundance Ion 91.00 (90.70 to 91.70): VU0
Ion 92.00 (91.70 to 92.70): VU0
Ion 134.00 (133.70 to 134.70): V





#85
 1,2-Dichlorobenzene
 Concen: 10.232 ug/l
 RT: 11.87 min Scan# 3354
 Delta R.T. 0.00 min
 Lab File: VU030013.D
 Acq: 12 Mar 2019 18:07

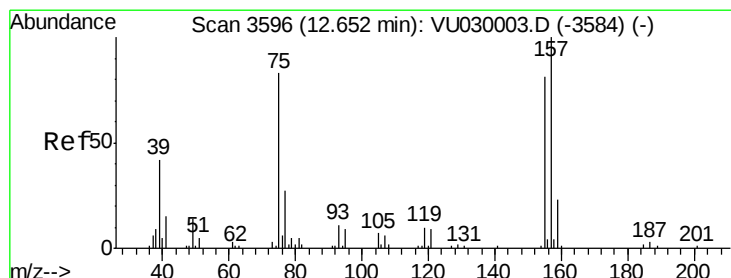
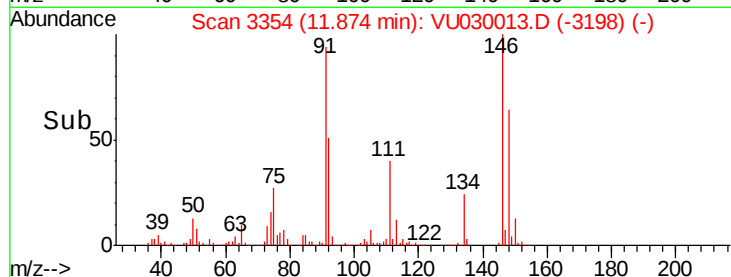
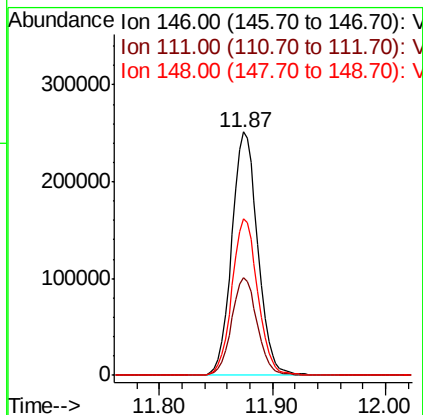
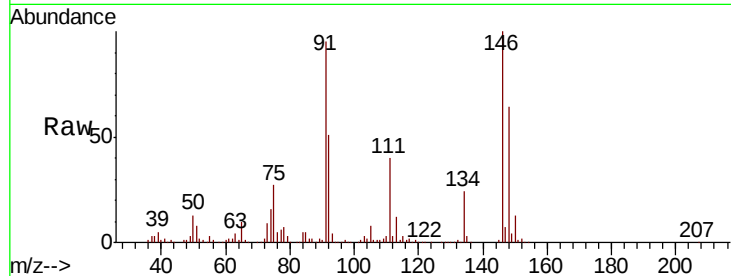
Instrument :
 MSVOA_U
 ClientSampleId :
 VSTDCCC010EC

Tgt Ion	Ratio	Lower	Upper
146	100		
111	39.5	19.9	59.7
148	63.9	31.7	95.1

Manual Integrations
 APPROVED

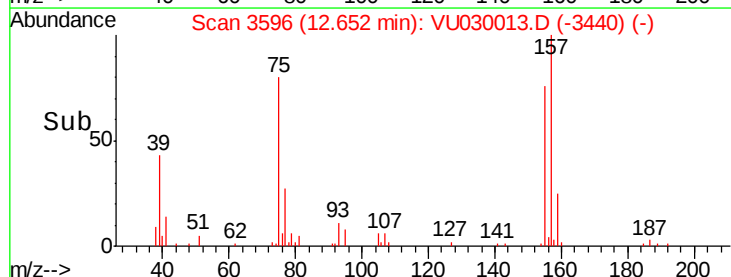
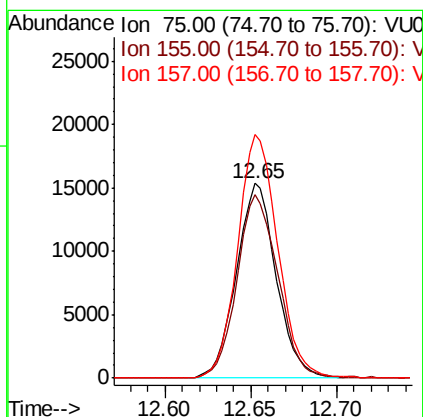
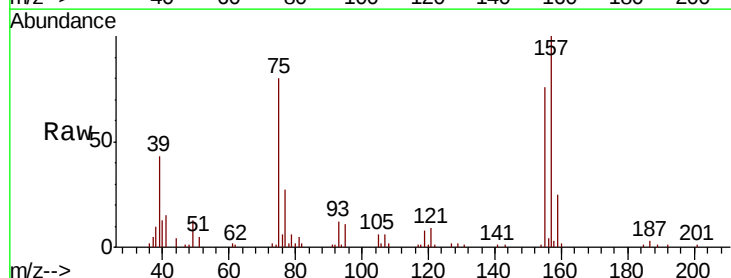
MMDadoda

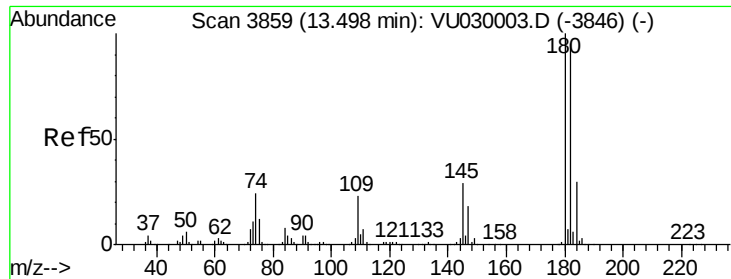
3/13/2019 12:56:41 PM



#86
 1,2-Dibromo-3-Chloropropane
 Concen: 10.711 ug/l
 RT: 12.65 min Scan# 3596
 Delta R.T. 0.00 min
 Lab File: VU030013.D
 Acq: 12 Mar 2019 18:07

Tgt Ion	Ratio	Lower	Upper
75	100		
155	96.6	78.2	117.4
157	126.0	97.2	145.8





#87
1,2,4-Trichlorobenzene
Concen: 10.449 ug/l
RT: 13.50 min Scan# 3859
Delta R.T. 0.00 min
Lab File: VU030013.D
Acq: 12 Mar 2019 18:07

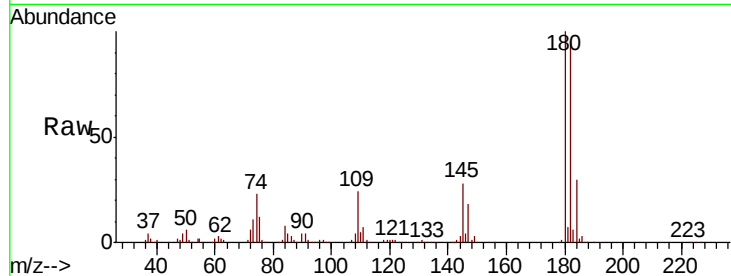
Instrument :
MSVOA_U
ClientSampleId :
VSTDCCC010EC

Tgt Ion	Ratio	Lower	Upper
180	100		
182	96.0	76.2	114.2
145	28.4	23.0	34.6

Manual Integrations
APPROVED

MMDadoda

3/13/2019 12:56:41 PM

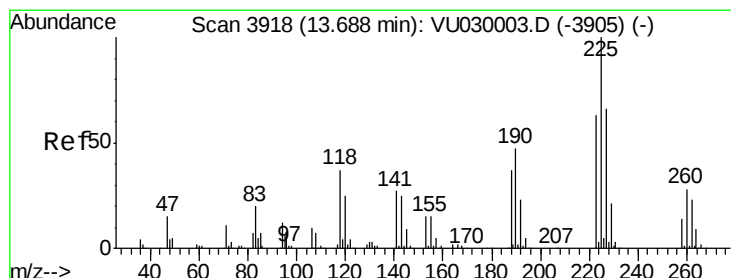
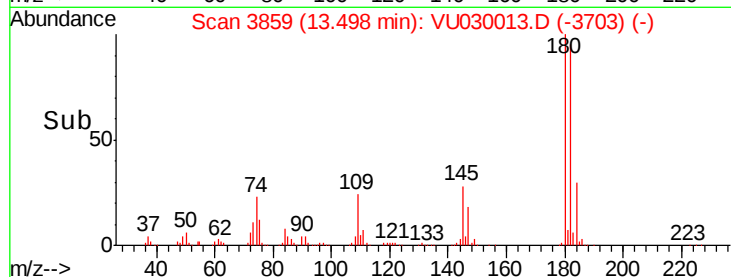
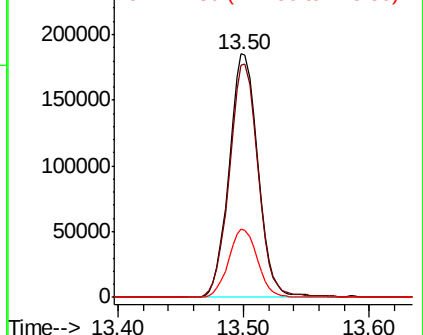


Abundance

Ion 179.70 (179.40 to 180.40): V

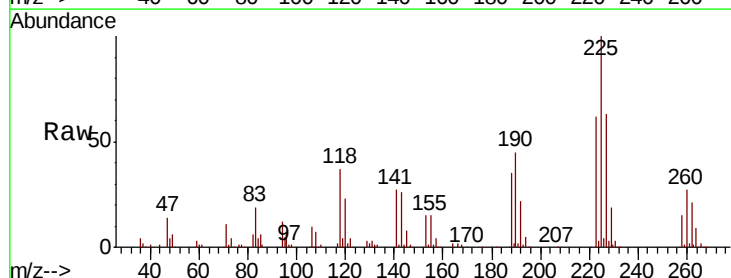
Ion 181.80 (181.50 to 182.50): V

Ion 144.80 (144.50 to 145.50): V



#88
Hexachlorobutadiene
Concen: 10.333 ug/l
RT: 13.69 min Scan# 3918
Delta R.T. 0.00 min
Lab File: VU030013.D
Acq: 12 Mar 2019 18:07

Tgt Ion	Ratio	Lower	Upper
225	100		
223	63.5	50.7	76.1
227	63.4	52.6	78.8

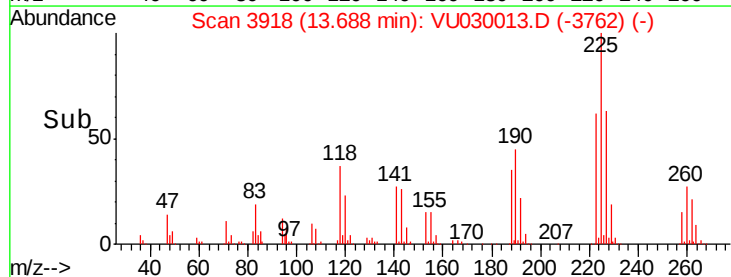
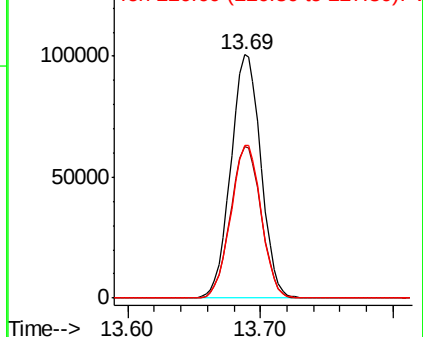


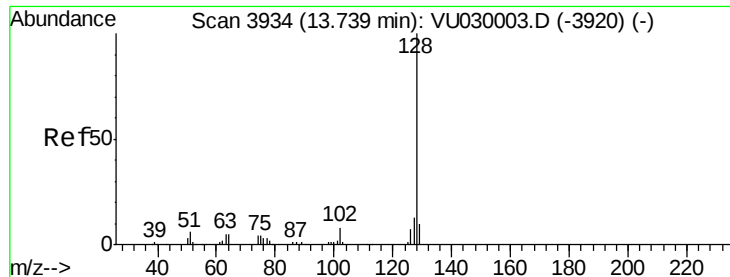
Abundance

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





#89
Naphthalene
Concen: 11.503 ug/l
RT: 13.74 min Scan# 3934
Delta R.T. 0.00 min
Lab File: VU030013.D
Acq: 12 Mar 2019 18:07

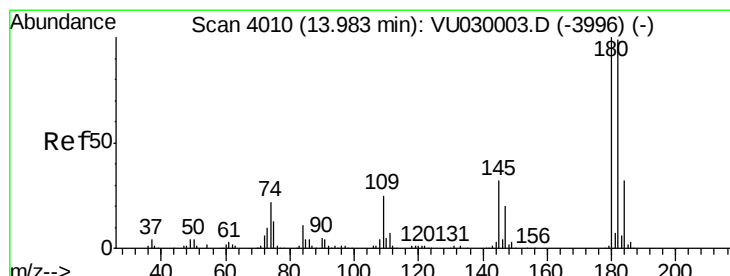
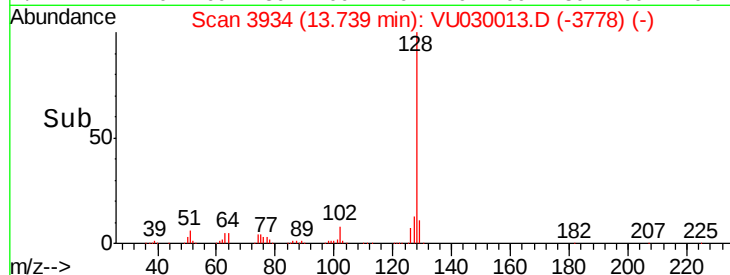
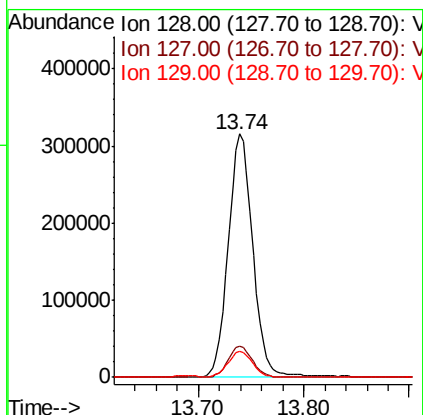
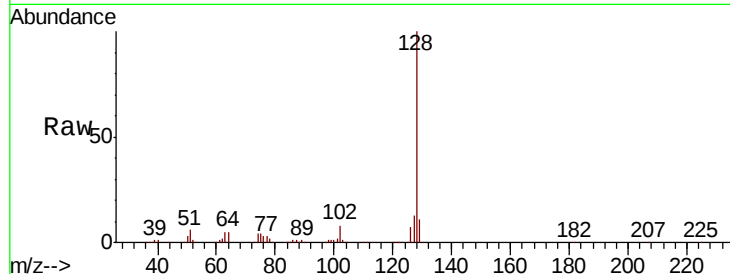
Instrument :
MSVOA_U
ClientSampleId :
VSTDCCC010EC

Tgt Ion	Ratio	Lower	Upper
128	100		
127	12.8	10.1	15.1
129	10.5	8.5	12.7

Manual Integrations
APPROVED

MMDadoda

3/13/2019 12:56:41 PM



#90
1,2,3-Trichlorobenzene
Concen: 10.560 ug/l
RT: 13.98 min Scan# 4010
Delta R.T. 0.00 min
Lab File: VU030013.D
Acq: 12 Mar 2019 18:07

Tgt Ion	Ratio	Lower	Upper
180	100		
182	96.2	77.6	116.4
145	30.7	24.7	37.1

