

Data Path : Z:\VOASRV\HPCHEM1\MSVOA W\DATA\VW053019\
 Data File : VW010609.D
 Acq On : 30 May 2019 12:23
 Operator : SY/VA
 Sample : VW0530SBS01
 Misc : 5.00G/5ML/MSVOA W/SOIL
 ALS Vial : 5 Sample Multiplier: 1

Instrument :
 MSVOA_W
 ClientSampleId :
 VW0530SBS01

Manual Integrations
 APPROVED

MMDadoda
 6/1/2019 4:27:15 AM

Quant Time: May 31 07:59:45 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_W\METHOD\82W052019S.M
 Quant Title : SW846 8260
 QLast Update : Tue May 21 06:38:43 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	7.95	168	132424	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	8.84	114	221422	50.00	ug/l	0.00
63) Chlorobenzene-d5	11.63	117	198605	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.56	152	98827	50.00	ug/l	0.00

System Monitoring Compounds

33) 1,2-Dichloroethane-d4	8.30	65	66771	48.85	ug/l	0.00
Spiked Amount	50.000		Recovery	=	97.70%	
35) Dibromofluoromethane	7.88	113	69821	51.97	ug/l	0.00
Spiked Amount	50.000		Recovery	=	103.94%	
50) Toluene-d8	10.32	98	265080	51.65	ug/l	0.00
Spiked Amount	50.000		Recovery	=	103.30%	
62) 4-Bromofluorobenzene	12.62	95	103195	50.48	ug/l	0.00
Spiked Amount	50.000		Recovery	=	100.96%	

Target Compounds

						Qvalue
2) Dichlorodifluoromethane	2.00	85	19292	16.163	ug/l	100
3) Chloromethane	2.21	50	20906	15.026	ug/l	100
4) Vinyl Chloride	2.35	62	24513	15.210	ug/l	100
5) Bromomethane	2.74	94	18133	16.355	ug/l	96
6) Chloroethane	2.90	64	18191	17.583	ug/l	98
7) Trichlorofluoromethane	3.25	101	48176	20.247	ug/l	97
8) Diethyl Ether	3.68	74	14144	18.753	ug/l	100
9) 1,1,2-Trichlorotrifluoroet	4.06	101	29350	20.030	ug/l	96
10) Methyl Iodide	4.27	142	26052	15.555	ug/l	99
11) Tert butyl alcohol	5.17	59	16246	132.139	ug/l #	92
12) 1,1-Dichloroethene	4.03	96	28158	20.131	ug/l	95
13) Acrolein	3.90	56	5628	61.760	ug/l	95
14) Allyl chloride	4.67	41	38017	18.777	ug/l	99
15) Acrylonitrile	5.37	53	30243	95.744	ug/l	100
16) Acetone	4.12	43	30535	109.443	ug/l	96
17) Carbon Disulfide	4.37	76	70218	16.830	ug/l	100
18) Methyl Acetate	4.67	43	14437	21.157	ug/l	98
19) Methyl tert-butyl Ether	5.43	73	70407	19.745	ug/l	96
20) Methylene Chloride	4.92	84	30197	14.884	ug/l	94
21) trans-1,2-Dichloroethene	5.43	96	32087	19.999	ug/l	91
22) Diisopropyl ether	6.31	45	80655	19.428	ug/l	97
23) Vinyl Acetate	6.26	43	225291	90.847	ug/l	99
24) 1,1-Dichloroethane	6.22	63	50297	20.302	ug/l	99
25) 2-Butanone	7.17	43	40208	100.702	ug/l	98
26) 2,2-Dichloropropane	7.16	77	49144	20.825	ug/l	99
27) cis-1,2-Dichloroethene	7.16	96	36568	20.965	ug/l	99
28) Bromochloromethane	7.51	49	18938	21.350	ug/l	94
29) Tetrahydrofuran	7.53	42	25049	92.711	ug/l	98
30) Chloroform	7.67	83	55266	20.681	ug/l	98
31) Cyclohexane	7.95	56	48099	18.534	ug/l	97
32) 1,1,1-Trichloroethane	7.87	97	51866	20.307	ug/l	98
36) 1,1-Dichloropropene	8.08	75	43122	20.906	ug/l	99
37) Ethyl Acetate	7.26	43	17450	19.894	ug/l	98
38) Carbon Tetrachloride	8.07	117	46128	20.731	ug/l	98

Data Path : Z:\VOASRV\HPCHEM1\MSVOA W\DATA\VW053019\
 Data File : VW010609.D
 Acq On : 30 May 2019 12:23
 Operator : SY/VA
 Sample : VW0530SBS01
 Misc : 5.00G/5ML/MSVOA W/SOIL
 ALS Vial : 5 Sample Multiplier: 1

Instrument :
 MSVOA_W
 ClientSampleID :
 VW0530SBS01

Manual Integrations
 APPROVED

MMDadoda
 6/1/2019 4:27:15 AM

Quant Time: May 31 07:59:45 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_W\METHOD\82W052019S.M
 Quant Title : SW846 8260
 QLast Update : Tue May 21 06:38:43 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
39) Methylcyclohexane	9.34	83	55384	20.041	ug/l	98
40) Benzene	8.32	78	123046	21.463	ug/l	99
41) Methacrylonitrile	7.49	41	9199	17.651	ug/l	94
42) 1,2-Dichloroethane	8.40	62	33803	20.630	ug/l	99
43) Isopropyl Acetate	8.43	43	33334	19.023	ug/l	98
44) Trichloroethene	9.09	130	36766	21.601	ug/l	98
45) 1,2-Dichloropropane	9.37	63	29040	21.328	ug/l	98
46) Dibromomethane	9.46	93	16741	21.024	ug/l	96
47) Bromodichloromethane	9.65	83	40798	20.388	ug/l	98
48) Methyl methacrylate	9.43	41	15063	18.790	ug/l	95
49) 1,4-Dioxane	9.44	88	5347	411.062	ug/l	98
51) 4-Methyl-2-Pentanone	10.21	43	88472	99.637	ug/l	99
52) Toluene	10.39	92	83205	21.611	ug/l	100
53) t-1,3-Dichloropropene	10.61	75	39813	19.645	ug/l	99
54) cis-1,3-Dichloropropene	10.07	75	46730	20.190	ug/l	99
55) 1,1,2-Trichloroethane	10.79	97	25327	22.118	ug/l	99
56) Ethyl methacrylate	10.65	69	30007	19.001	ug/l	99
57) 1,3-Dichloropropane	10.93	76	40893	21.320	ug/l	100
58) 2-Chloroethyl Vinyl ether	9.93	63	62985	90.044	ug/l	98
59) 2-Hexanone	10.97	43	61764	97.509	ug/l	100
60) Dibromochloromethane	11.13	129	29183	20.137	ug/l	100
61) 1,2-Dibromoethane	11.24	107	24324	20.970	ug/l	97
64) Tetrachloroethene	10.86	164	30291	21.879	ug/l	98
65) Chlorobenzene	11.66	112	91573	21.634	ug/l	97
66) 1,1,1,2-Tetrachloroethane	11.73	131	32230	21.256	ug/l	99
67) Ethyl Benzene	11.73	91	158704	21.237	ug/l	98
68) m/p-Xylenes	11.84	106	126126	43.029	ug/l	100
69) o-Xylene	12.17	106	60266	21.701	ug/l	97
70) Styrene	12.18	104	100644	21.359	ug/l	99
71) Bromoform	12.35	173	15664	18.760	ug/l #	98
73) Isopropylbenzene	12.47	105	163742	20.879	ug/l	99
74) N-amyl acetate	12.27	43	31288	17.410	ug/l	97
75) 1,1,2,2-Tetrachloroethane	12.71	83	27544	19.310	ug/l	99
76) 1,2,3-Trichloropropane	12.77	75	15706m	15.657	ug/l	
77) Bromobenzene	12.75	156	38158	21.743	ug/l	96
78) n-propylbenzene	12.80	91	186543	20.411	ug/l	100
79) 2-Chlorotoluene	12.90	91	108642	20.499	ug/l	99
80) 1,3,5-Trimethylbenzene	12.94	105	137264	20.666	ug/l	100
81) trans-1,4-Dichloro-2-buten	12.51	75	7972	16.585	ug/l	98
82) 4-Chlorotoluene	12.99	91	112856	20.515	ug/l	100
83) tert-Butylbenzene	13.21	119	122168	21.057	ug/l	98
84) 1,2,4-Trimethylbenzene	13.26	105	137005	20.711	ug/l	99
85) sec-Butylbenzene	13.38	105	165887	20.432	ug/l	100
86) p-Isopropyltoluene	13.50	119	153165	20.842	ug/l	100
87) 1,3-Dichlorobenzene	13.50	146	74010	21.495	ug/l	100
88) 1,4-Dichlorobenzene	13.58	146	73767	21.354	ug/l	98
89) n-Butylbenzene	13.83	91	138756	19.850	ug/l	99
90) Hexachloroethane	14.10	117	27070	19.031	ug/l	98
91) 1,2-Dichlorobenzene	13.87	146	66846	21.307	ug/l	100
92) 1,2-Dibromo-3-Chloropropan	14.49	75	4636	17.479	ug/l	98

Data Path : Z:\VOASRV\HPCHEM1\MSVOA W\DATA\VW053019\
Data File : VW010609.D
Acq On : 30 May 2019 12:23
Operator : SY/VA
Sample : VW0530SBSD01
Misc : 5.00G/5ML/MSVOA W/SOIL
ALS Vial : 5 Sample Multiplier: 1

Instrument :
MSVOA_W
ClientSampleId :
VW0530SBSD01

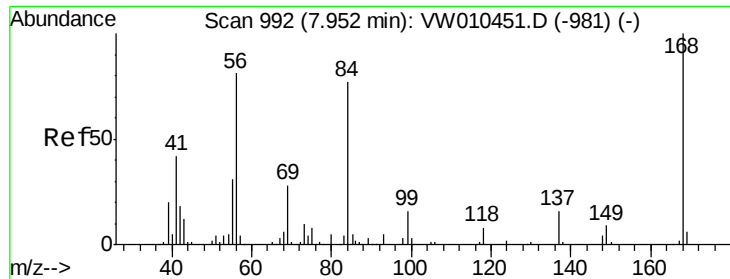
Manual Integrations
APPROVED

MMDadoda
6/1/2019 4:27:15 AM

Quant Time: May 31 07:59:45 2019
Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_W\METHOD\82W052019S.M
Quant Title : SW846 8260
QLast Update : Tue May 21 06:38:43 2019
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
93) 1,2,4-Trichlorobenzene	15.14	180	43138	20.210	ug/l	98
94) Hexachlorobutadiene	15.24	225	24624	21.594	ug/l	98
95) Naphthalene	15.37	128	80855	18.045	ug/l	99
96) 1,2,3-Trichlorobenzene	15.56	180	37254	20.283	ug/l	99

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



#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 7.95 min Scan# 991

Delta R.T. -0.01 min

Lab File: VW010609.D

Acq: 30 May 2019 12:23

Instrument :

MSVOA_W

ClientSampleId :

VW0530SBS01

Tot Ion:168 Resp: 132424

Ion Ratio Lower Upper

168 100

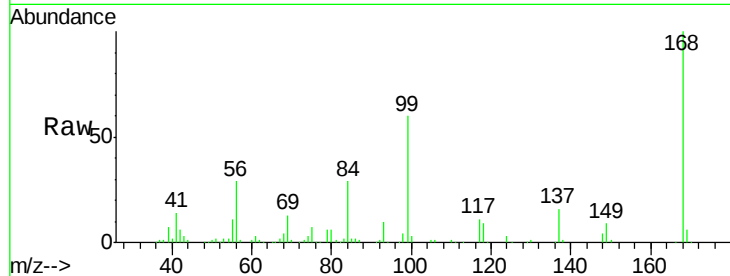
99 59.8 46.1 69.1

Manual Integrations

APPROVED

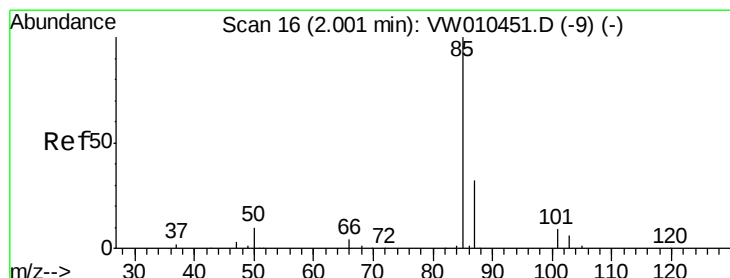
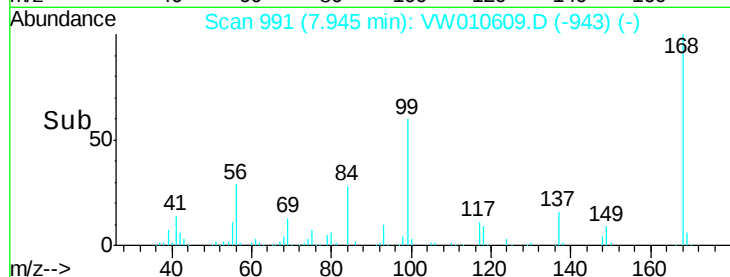
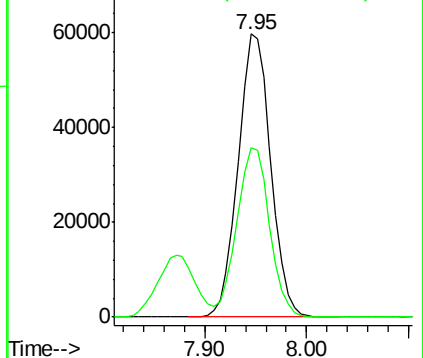
MMDadoda

6/1/2019 4:27:15 AM



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VW



#2

Dichlorodifluoromethane

Concen: 16.163 ug/l

RT: 2.00 min Scan# 15

Delta R.T. -0.01 min

Lab File: VW010609.D

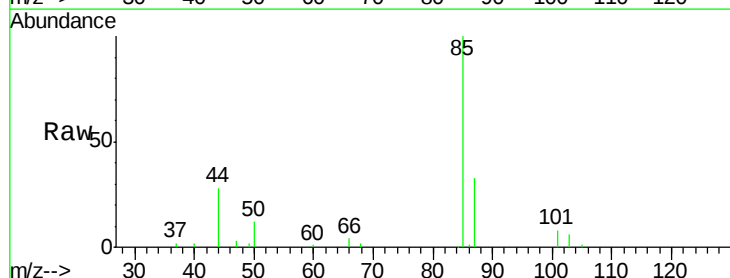
Acq: 30 May 2019 12:23

Tgt Ion: 85 Resp: 19292

Ion Ratio Lower Upper

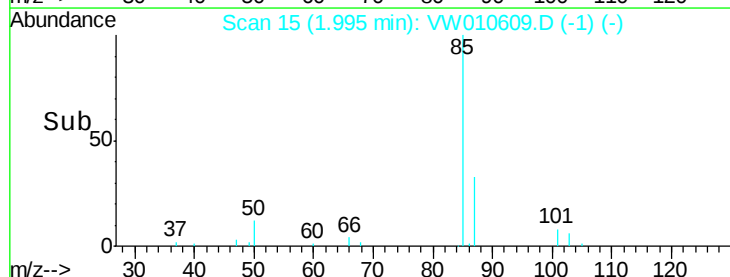
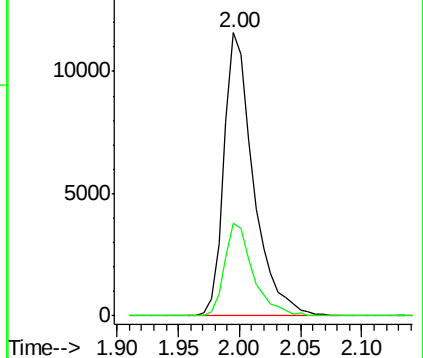
85 100

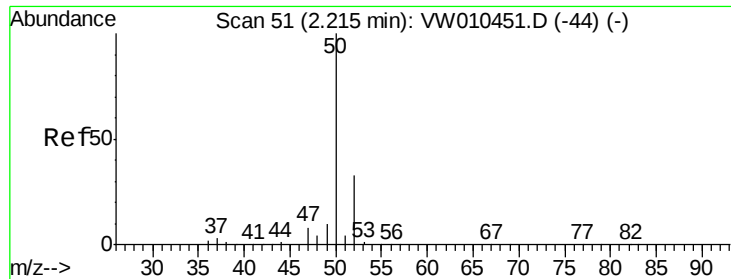
87 32.8 16.3 48.8



Abundance Ion 84.90 (84.60 to 85.60): VW

Ion 86.90 (86.60 to 87.60): VW





#3

Chloromethane

Concen: 15.026 ug/l

RT: 2.21 min Scan# 51

Delta R.T. -0.00 min

Lab File: VW010609.D

Acq: 30 May 2019 12:23

Instrument :

MSVOA_W

ClientSampleId :

VW0530SBS01

Tot Ion: 50 Resp: 20906

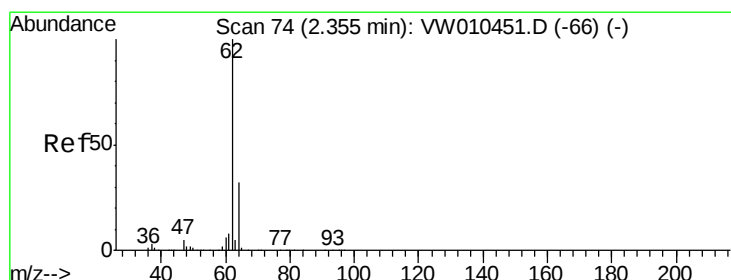
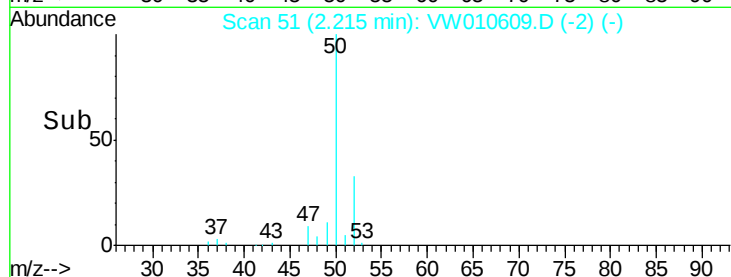
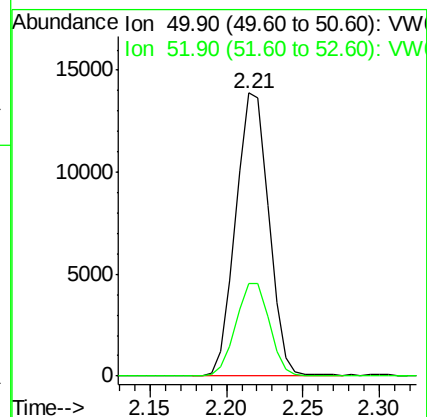
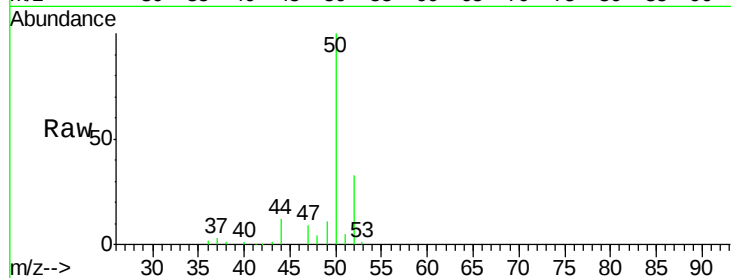
Ion Ratio Lower Upper

50 100

52 32.6 26.3 39.5

Manual Integrations
APPROVED

MMDadoda
6/1/2019 4:27:15 AM



#4

Vinyl Chloride

Concen: 15.210 ug/l

RT: 2.35 min Scan# 74

Delta R.T. -0.00 min

Lab File: VW010609.D

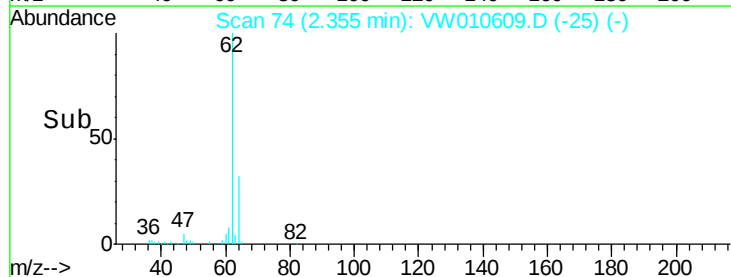
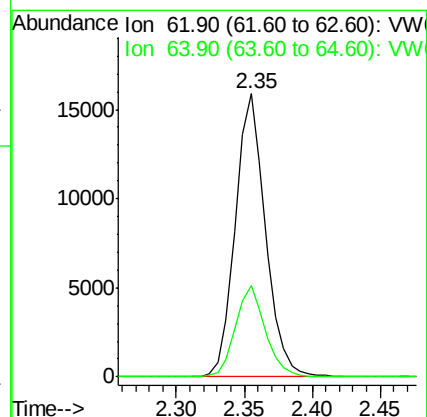
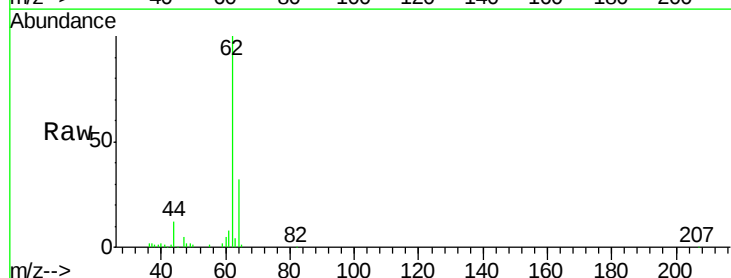
Acq: 30 May 2019 12:23

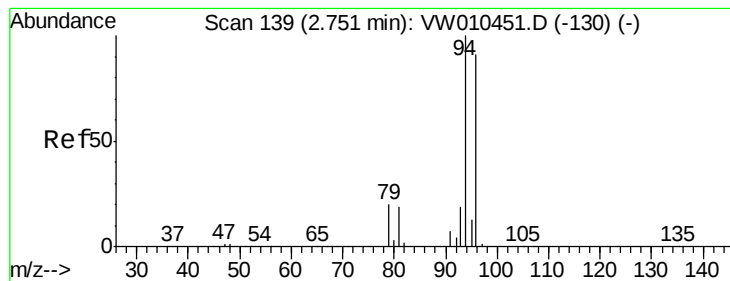
Tgt Ion: 62 Resp: 24513

Ion Ratio Lower Upper

62 100

64 32.2 25.8 38.8





#5

Bromomethane

Concen: 16.355 ug/l

RT: 2.74 min Scan# 137

Delta R.T. -0.01 min

Lab File: VW010609.D

Acq: 30 May 2019 12:23

Instrument :

MSVOA_W

ClientSampleId :

VW0530SBS01

Tot Ion: 94 Resp: 18133

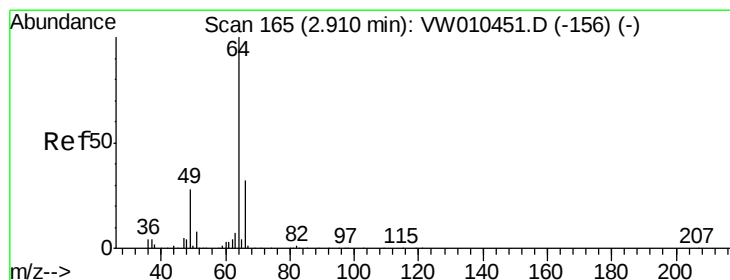
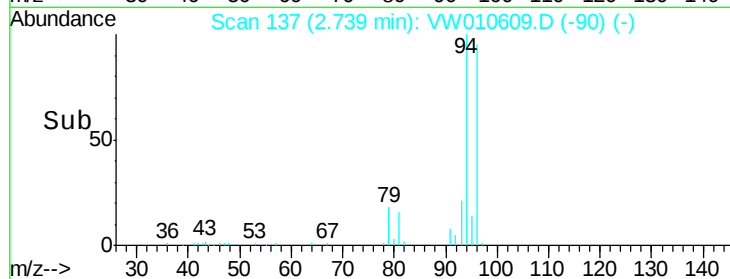
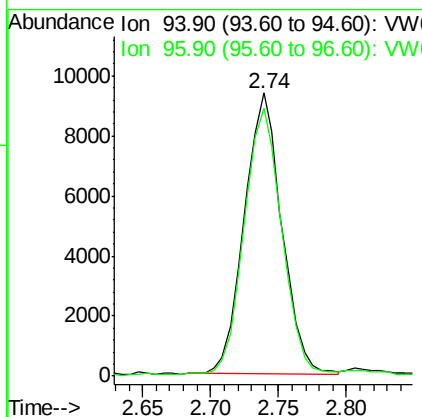
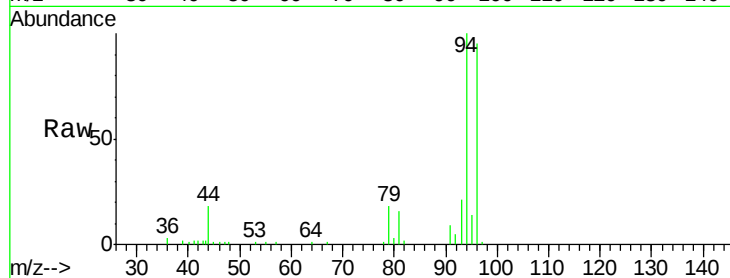
Ion Ratio Lower Upper

94 100

96 94.7 72.9 109.3

Manual Integrations
APPROVED

MMDadoda
6/1/2019 4:27:15 AM



#6

Chloroethane

Concen: 17.583 ug/l

RT: 2.90 min Scan# 163

Delta R.T. -0.01 min

Lab File: VW010609.D

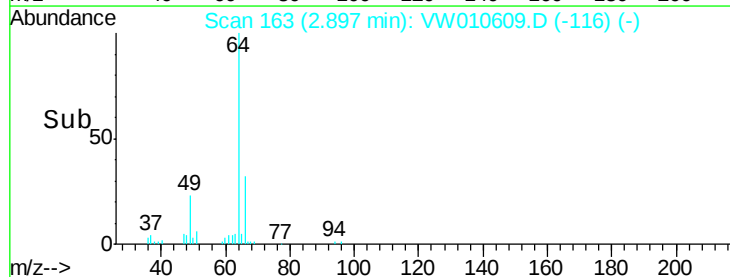
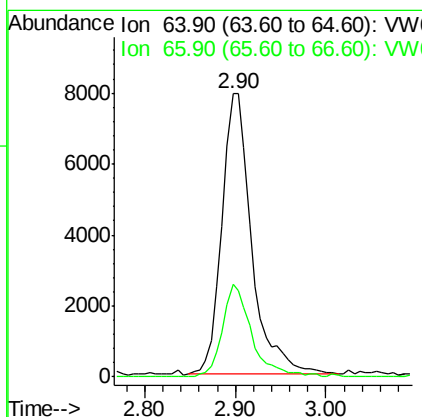
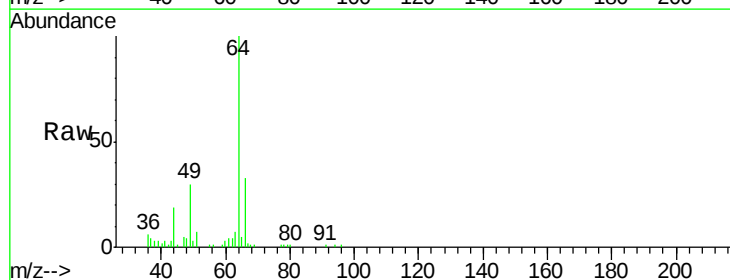
Acq: 30 May 2019 12:23

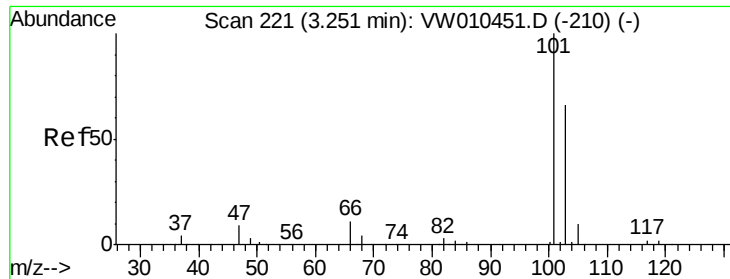
Tgt Ion: 64 Resp: 18191

Ion Ratio Lower Upper

64 100

66 33.1 25.5 38.3





#7

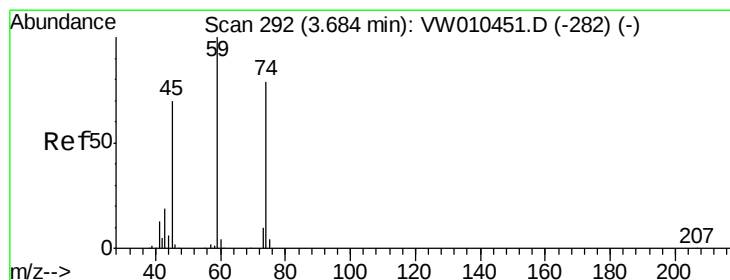
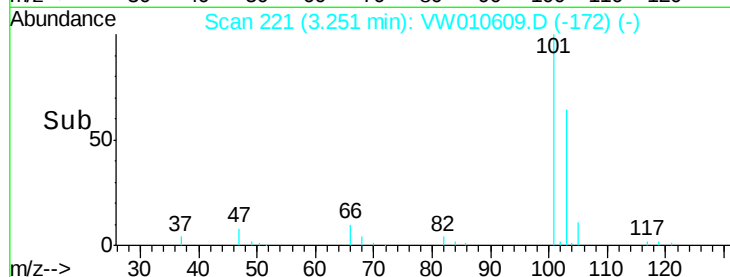
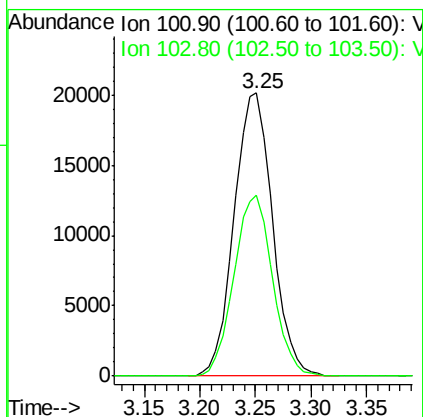
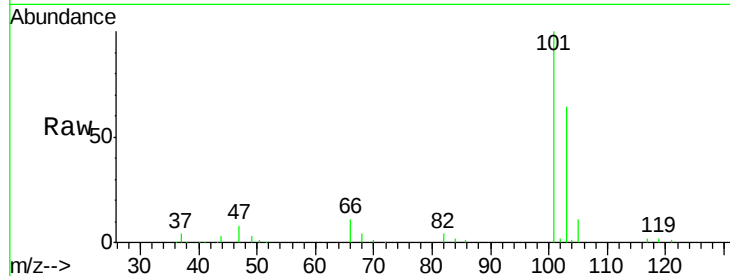
Trichlorofluoromethane
Concen: 20.247 ug/l
RT: 3.25 min Scan# 221
Delta R.T. -0.00 min
Lab File: VW010609.D
Acq: 30 May 2019 12:23

Instrument :
MSVOA_W
ClientSampleId :
VW0530SBS01

Tot Ion	Ratio	Lower	Upper
101	100		
103	64.1	53.0	79.4

Manual Integrations
APPROVED

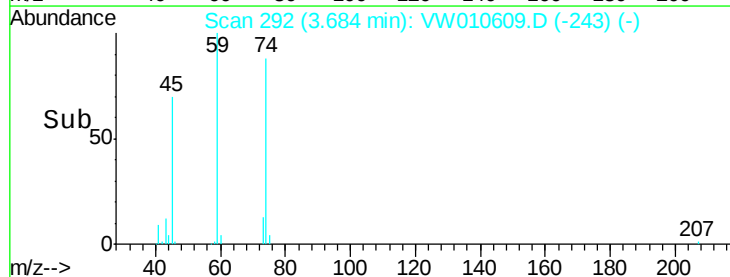
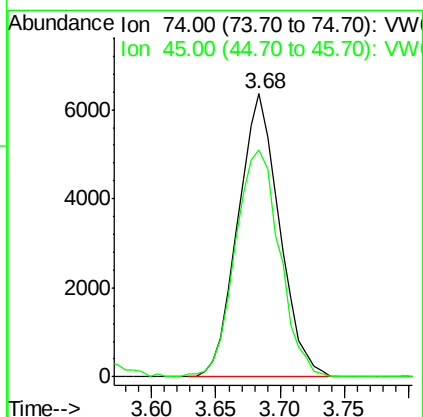
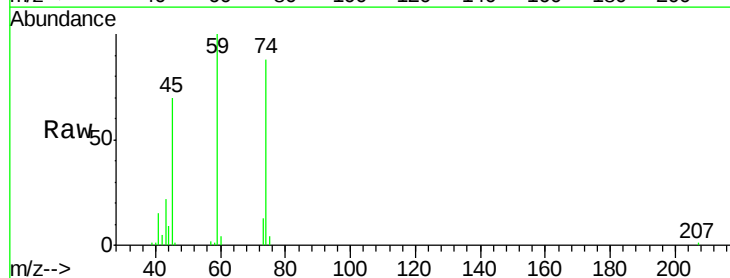
MMDadoda
6/1/2019 4:27:15 AM

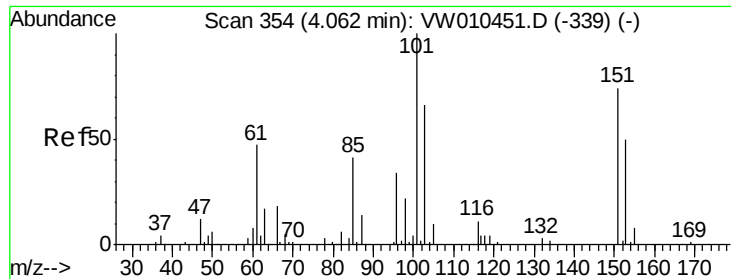


#8

Diethyl Ether
Concen: 18.753 ug/l
RT: 3.68 min Scan# 292
Delta R.T. -0.00 min
Lab File: VW010609.D
Acq: 30 May 2019 12:23

Tgt Ion	Ratio	Lower	Upper
74	100		
45	86.1	42.9	128.5





#9

1,1,2-Trichlorotrifluoroethane

Concen: 20.030 ug/l

RT: 4.06 min Scan# 353

Delta R.T. -0.01 min

Lab File: VW010609.D

Acq: 30 May 2019 12:23

Instrument :

MSVOA_W

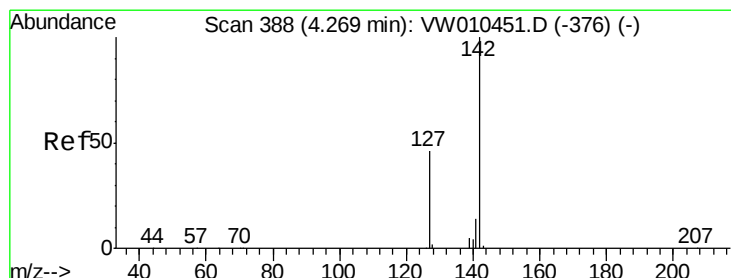
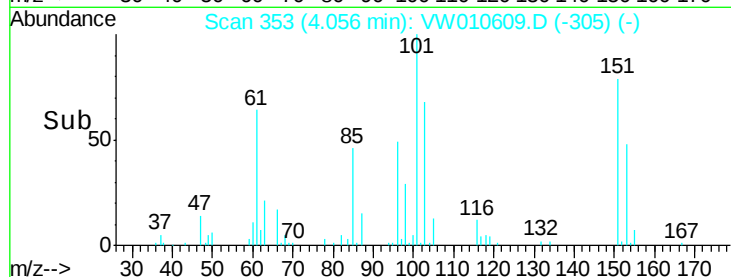
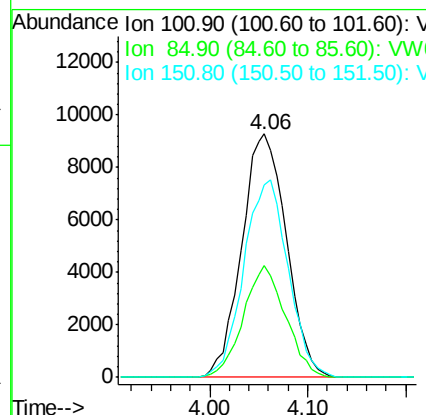
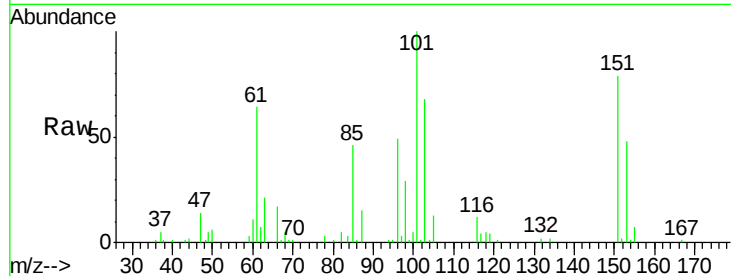
ClientSampleId :

VW0530SBS01

Tot Ion:	101	Resp:	29350
Ion Ratio	Lower	Upper	
101	100		
85	43.4	34.3	51.5
151	80.5	60.3	90.5

Manual Integrations
APPROVED

MMDadoda
6/1/2019 4:27:15 AM



#10

Methyl Iodide

Concen: 15.555 ug/l

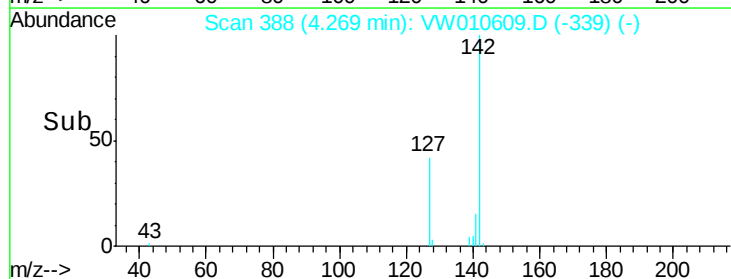
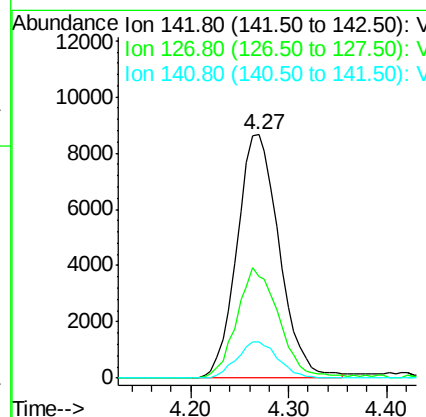
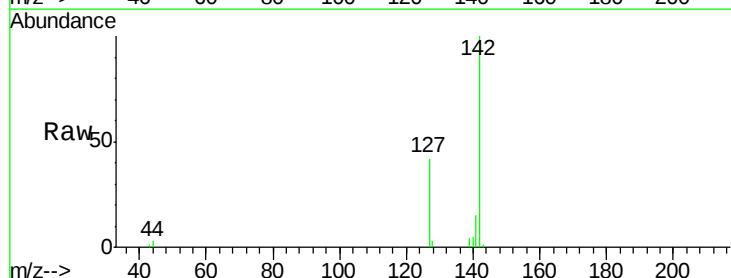
RT: 4.27 min Scan# 388

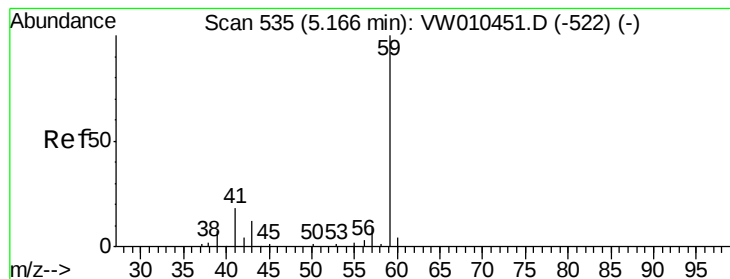
Delta R.T. -0.00 min

Lab File: VW010609.D

Acq: 30 May 2019 12:23

Tgt Ion:	142	Resp:	26052
Ion Ratio	Lower	Upper	
142	100		
127	44.8	36.1	54.1
141	14.4	11.3	16.9





#11

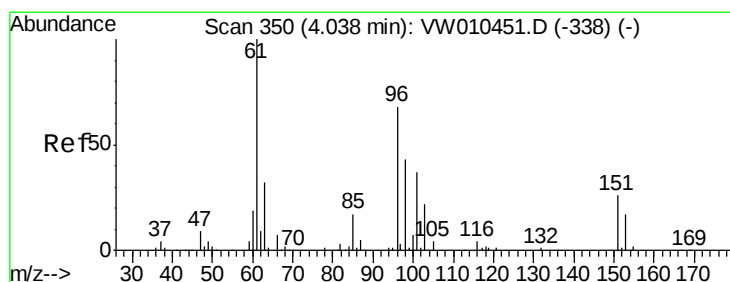
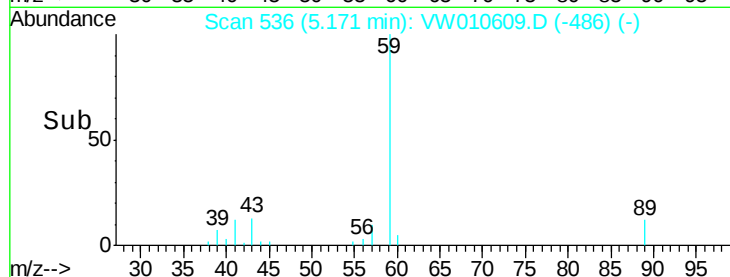
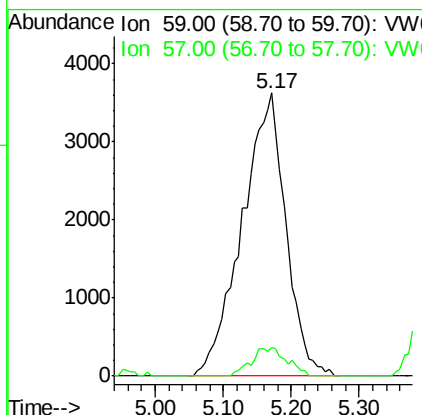
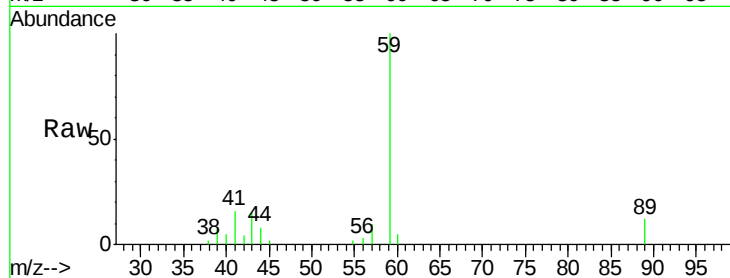
Tert butyl alcohol
Concen: 132.139 ug/l
RT: 5.17 min Scan# 536
Delta R.T. 0.01 min
Lab File: VW010609.D
Acq: 30 May 2019 12:23

Instrument :
MSVOA_W
ClientSampleId :
VW0530SBS01

Tot Ion	Ratio	Resp	Lower	Upper
59	100	16246		
57	8.1		8.8	13.2#

Manual Integrations
APPROVED

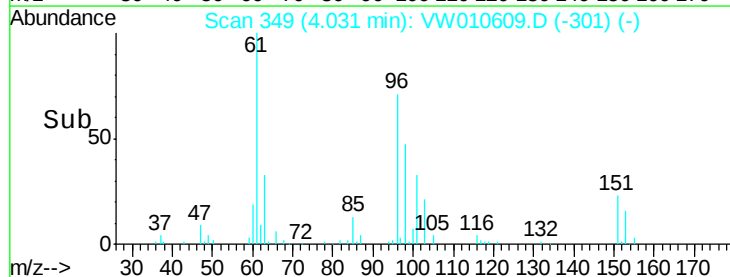
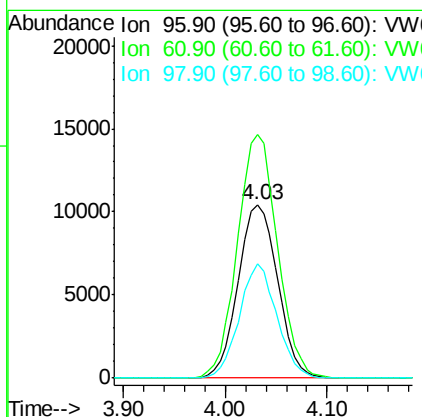
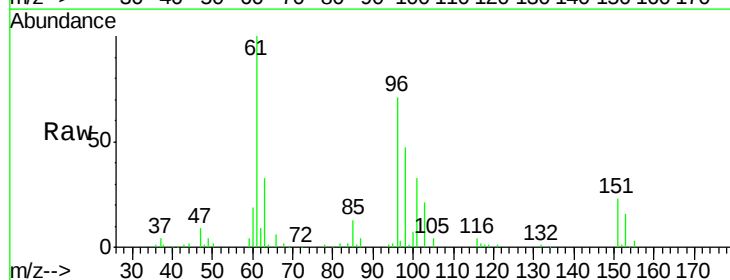
MMDadoda
6/1/2019 4:27:15 AM

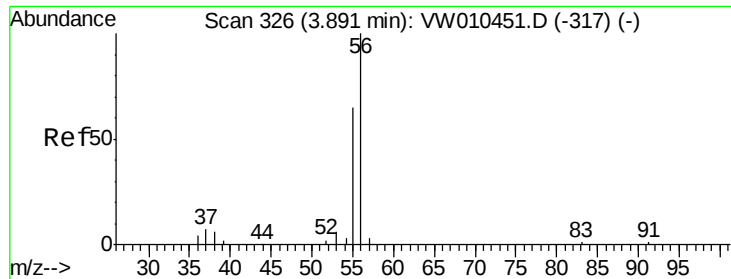


#12

1,1-Dichloroethene
Concen: 20.131 ug/l
RT: 4.03 min Scan# 349
Delta R.T. -0.01 min
Lab File: VW010609.D
Acq: 30 May 2019 12:23

Tgt Ion	Ratio	Resp	Lower	Upper
96	100	28158		
61	140.2		118.3	177.5
98	65.7		51.0	76.6





#13

Acrolein

Concen: 61.760 ug/l

RT: 3.90 min Scan# 327

Delta R.T. 0.01 min

Lab File: VW010609.D

Acq: 30 May 2019 12:23

Instrument :

MSVOA_W

ClientSampleId :

VW0530SBS01

Tot Ion: 56 Resp: 5628

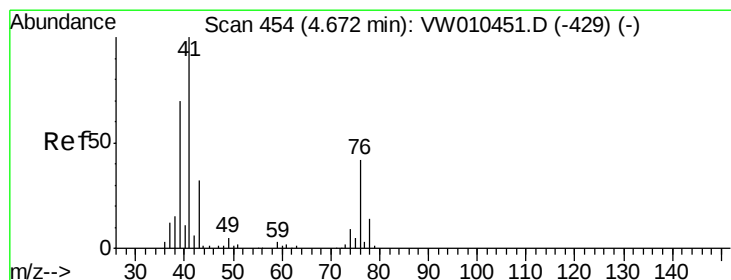
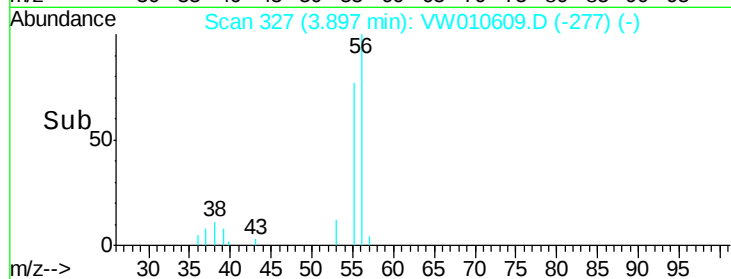
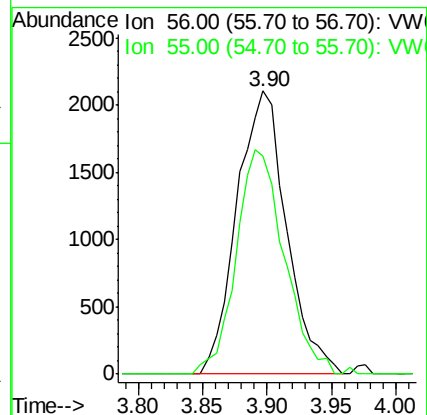
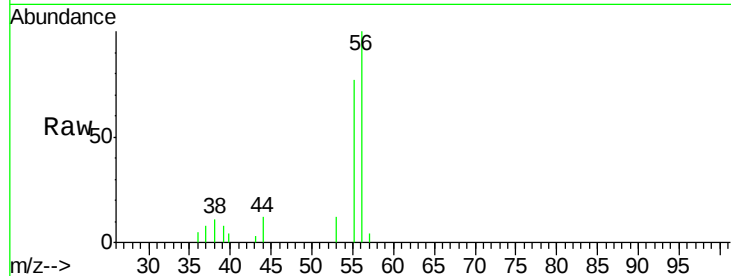
Ion Ratio Lower Upper

56 100

55 76.6 57.9 86.9

Manual Integrations
APPROVED

MMDadoda
6/1/2019 4:27:15 AM



#14

Allyl chloride

Concen: 18.777 ug/l

RT: 4.67 min Scan# 453

Delta R.T. -0.01 min

Lab File: VW010609.D

Acq: 30 May 2019 12:23

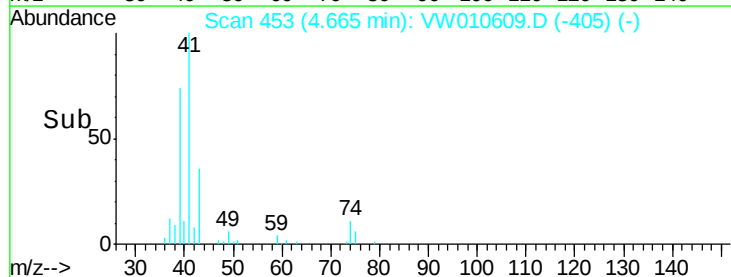
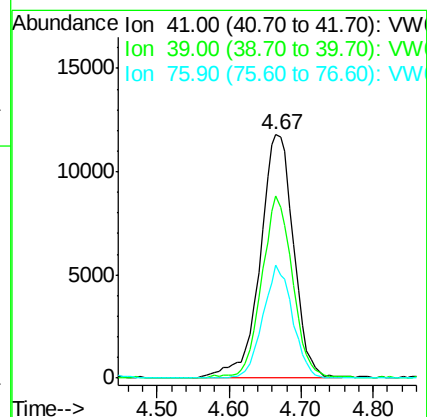
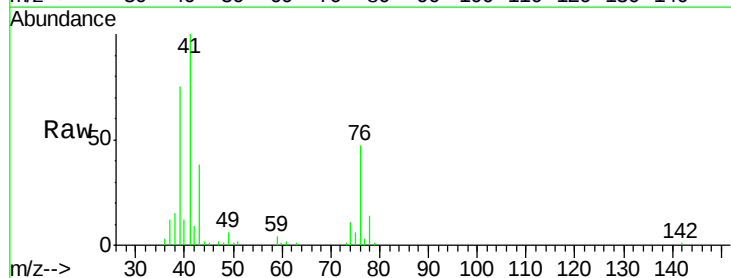
Tgt Ion: 41 Resp: 38017

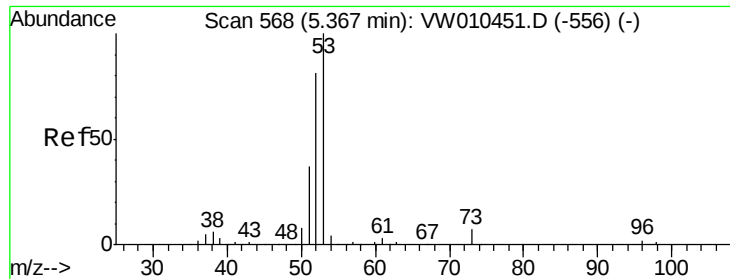
Ion Ratio Lower Upper

41 100

39 69.4 55.0 82.4

76 40.9 32.8 49.2





#15

Acrylonitrile

Concen: 95.744 ug/l

RT: 5.37 min Scan# 569

Delta R.T. 0.01 min

Lab File: VW010609.D

Acq: 30 May 2019 12:23

Instrument :

MSVOA_W

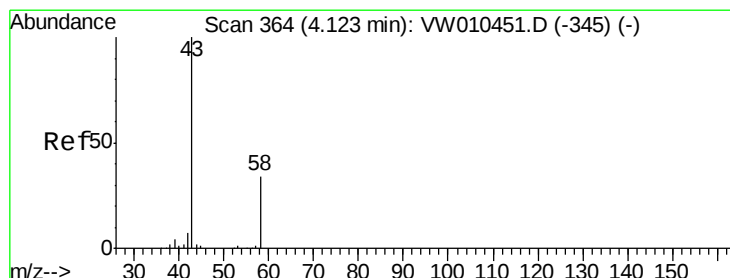
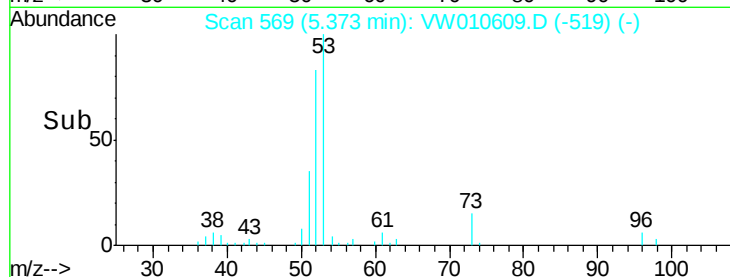
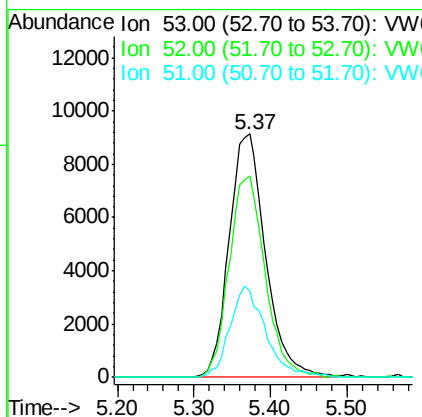
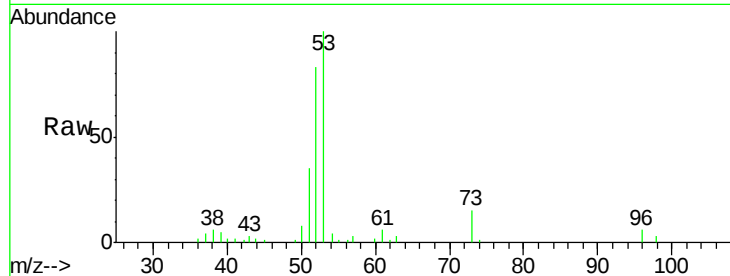
ClientSampleId :

VW0530SBS01

Tot Ion:	53	Resp:	30243
Ion	Ratio	Lower	Upper
53	100		
52	81.5	65.6	98.4
51	36.7	29.5	44.3

Manual Integrations
APPROVED

MMDadoda
6/1/2019 4:27:15 AM



#16

Acetone

Concen: 109.443 ug/l

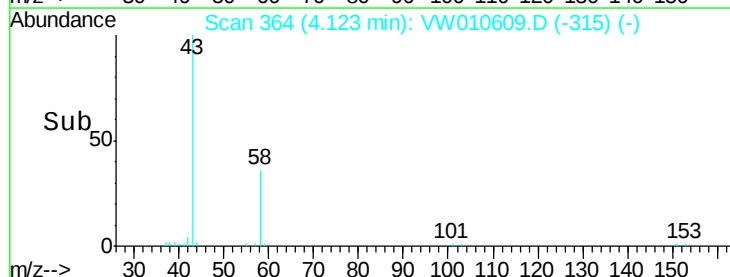
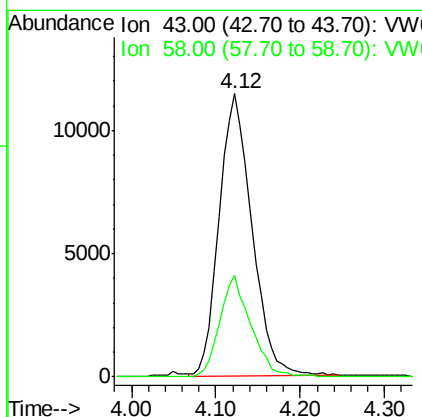
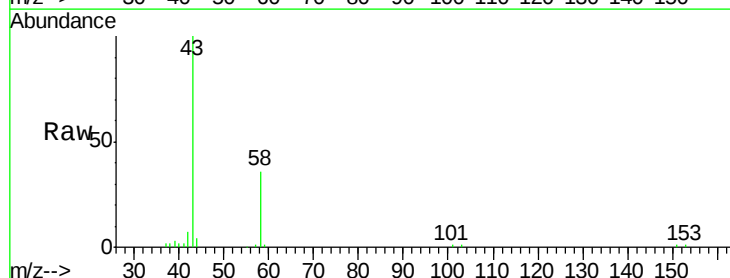
RT: 4.12 min Scan# 364

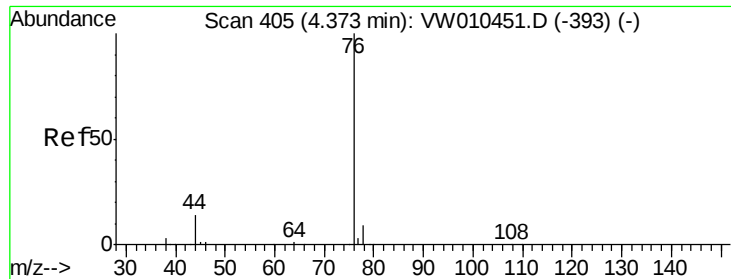
Delta R.T. -0.00 min

Lab File: VW010609.D

Acq: 30 May 2019 12:23

Tgt Ion:	43	Resp:	30535
Ion	Ratio	Lower	Upper
43	100		
58	36.0	27.0	40.4





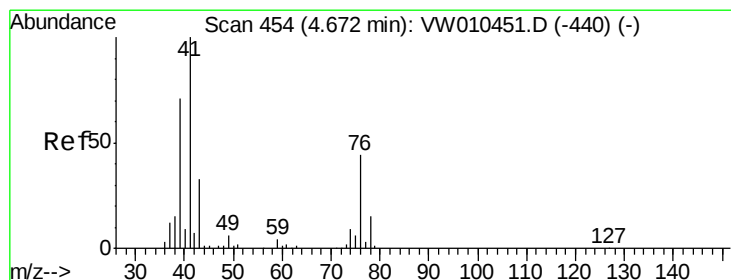
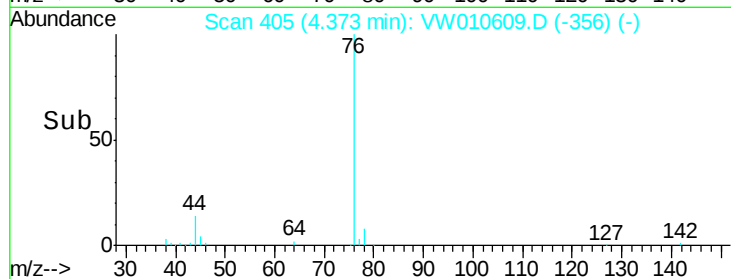
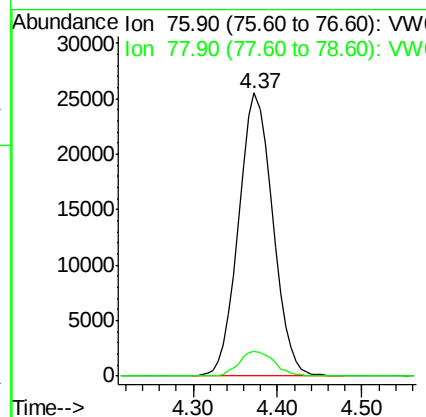
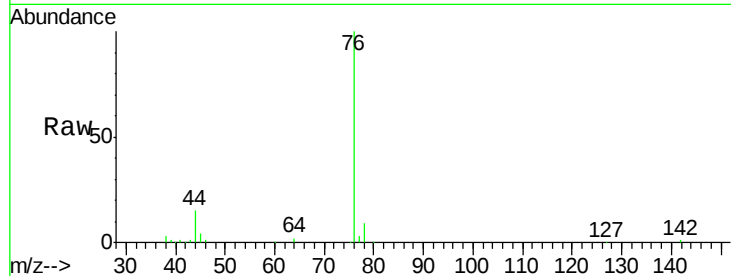
#17
Carbon Disulfide
Concen: 16.830 ug/l
RT: 4.37 min Scan# 405
Delta R.T. -0.00 min
Lab File: VW010609.D
Acq: 30 May 2019 12:23

Instrument :
MSVOA_W
ClientSampleId :
VW0530SBSD01

Tot Ion	Ratio	Lower	Upper
76	100		
78	8.9	7.1	10.7

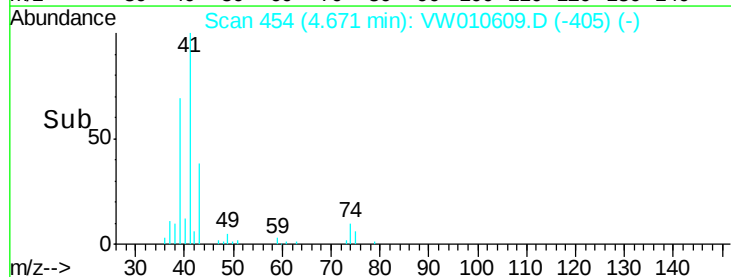
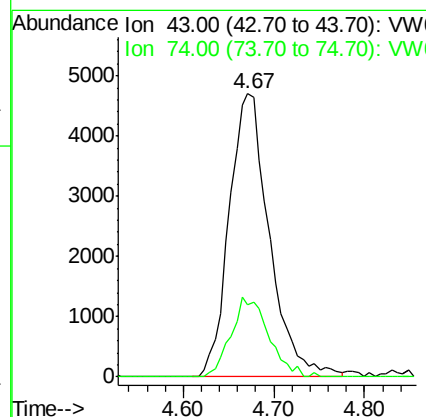
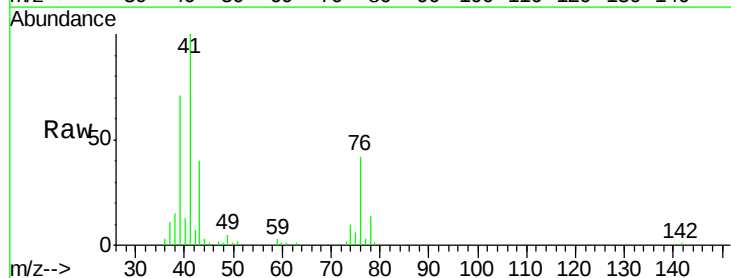
Manual Integrations
APPROVED

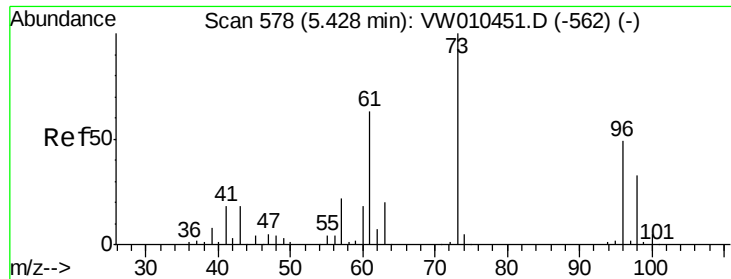
MMDadoda
6/1/2019 4:27:15 AM



#18
Methyl Acetate
Concen: 21.157 ug/l
RT: 4.67 min Scan# 454
Delta R.T. -0.00 min
Lab File: VW010609.D
Acq: 30 May 2019 12:23

Tgt Ion	Ratio	Lower	Upper
43	100		
74	26.2	21.6	32.4





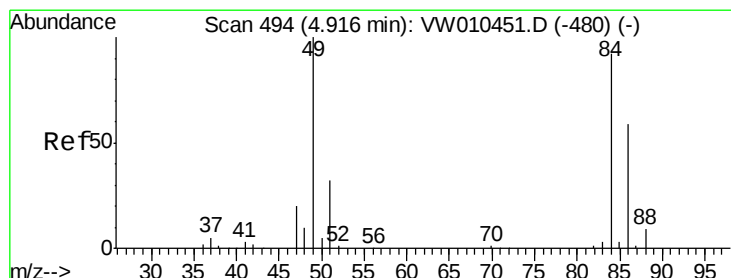
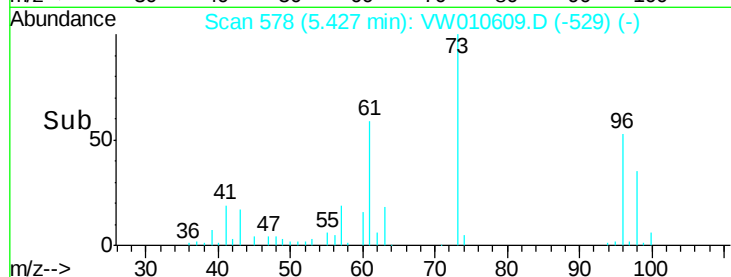
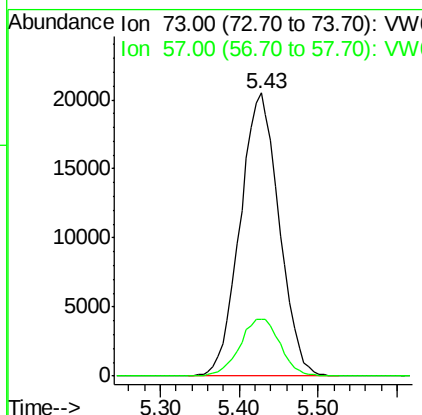
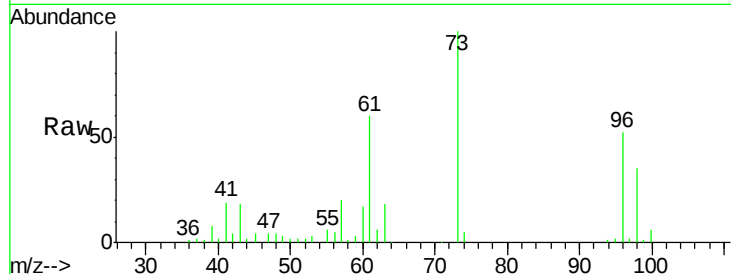
#19
Methvl tert-butvl Ether
Concen: 19.745 ug/l
RT: 5.43 min Scan# 578
Delta R.T. -0.00 min
Lab File: VW010609.D
Acq: 30 May 2019 12:23

Instrument :
MSVOA_W
ClientSampleId :
VW0530SBS01

Tot Ion: 73 Resp: 70407
Ion Ratio Lower Upper
73 100
57 20.0 17.4 26.0

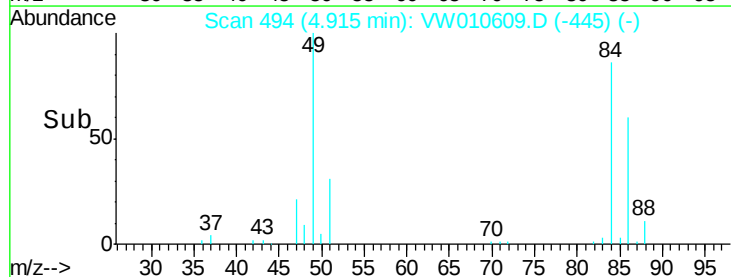
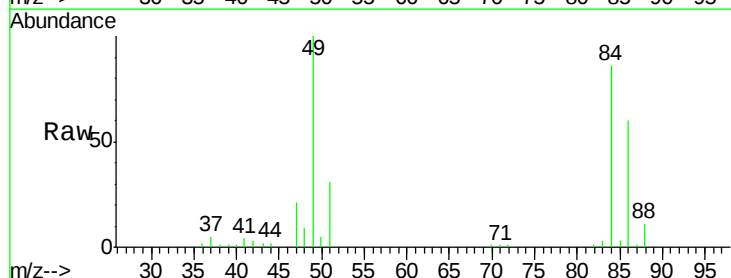
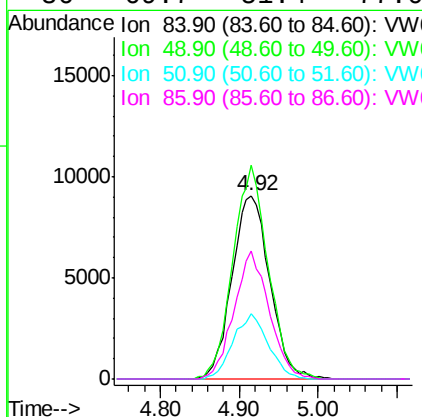
Manual Integrations
APPROVED

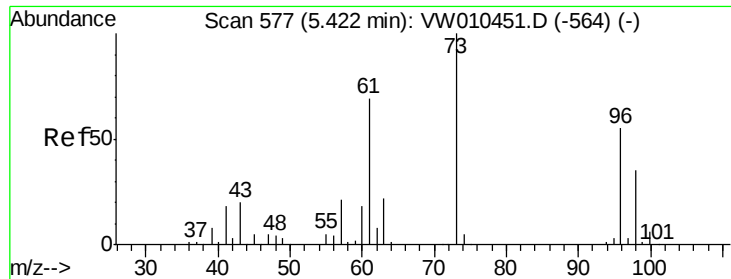
MMDadoda
6/1/2019 4:27:15 AM



#20
Methylene Chloride
Concen: 14.884 ug/l
RT: 4.92 min Scan# 494
Delta R.T. 0.00 min
Lab File: VW010609.D
Acq: 30 May 2019 12:23

Tgt Ion: 84 Resp: 30197
Ion Ratio Lower Upper
84 100
49 116.7 87.2 130.8
51 35.9 27.7 41.5
86 69.7 51.4 77.0





#21

trans-1,2-Dichloroethene

Concen: 19.999 ug/l

RT: 5.43 min Scan# 578

Delta R.T. 0.01 min

Lab File: VW010609.D

Acq: 30 May 2019 12:23

Instrument :

MSVOA_W

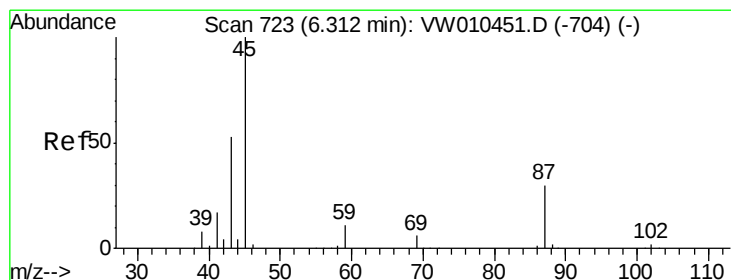
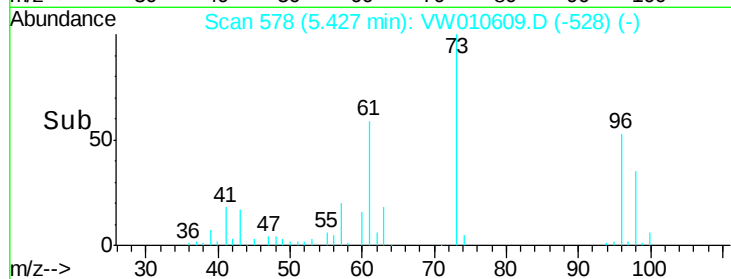
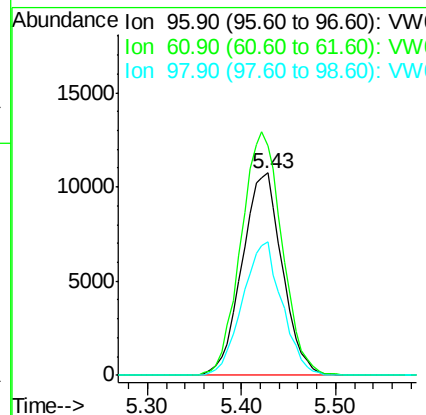
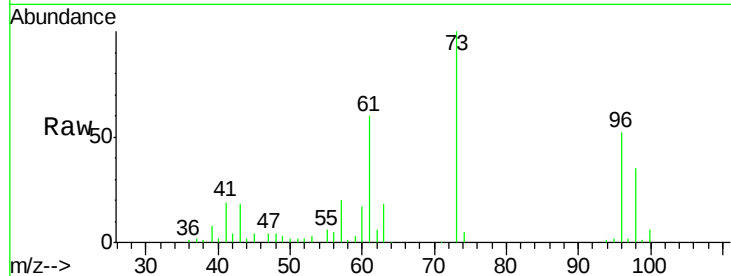
ClientSampleId :

VW0530SBS01

Tot Ion:	96	Resp:	32087
Ion	Ratio	Lower	Upper
96	100		
61	113.6	101.4	152.0
98	66.2	50.6	76.0

Manual Integrations
APPROVED

MMDadoda
6/1/2019 4:27:15 AM



#22

Diisopropyl ether

Concen: 19.428 ug/l

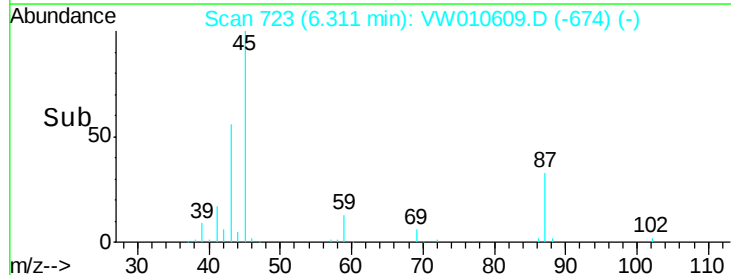
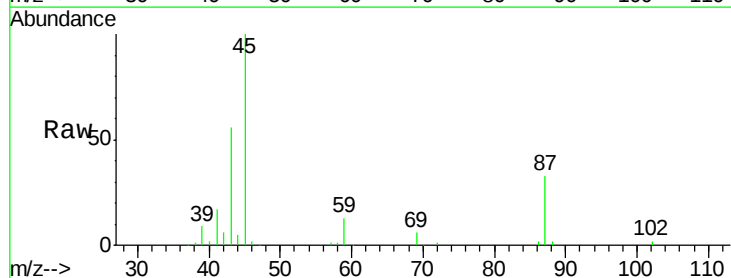
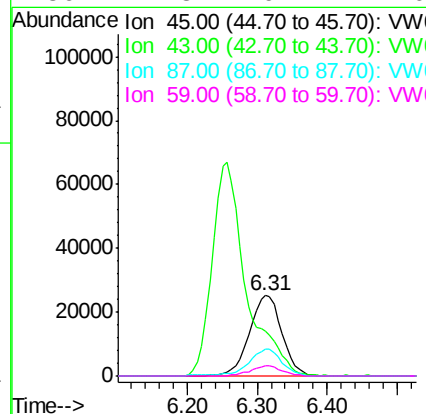
RT: 6.31 min Scan# 723

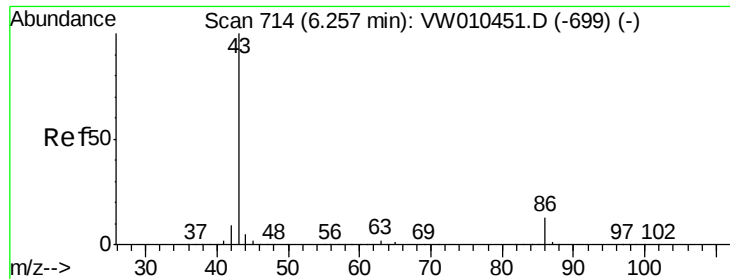
Delta R.T. -0.00 min

Lab File: VW010609.D

Acq: 30 May 2019 12:23

Tgt Ion:	45	Resp:	80655
Ion	Ratio	Lower	Upper
45	100		
43	55.6	42.9	64.3
87	33.1	24.6	36.8
59	12.8	9.4	14.0





#23

Vinyl Acetate

Concen: 90.847 ug/l

RT: 6.26 min Scan# 714

Delta R.T. -0.00 min

Lab File: VW010609.D

Acq: 30 May 2019 12:23

Instrument :

MSVOA_W

ClientSampleId :

VW0530SBS01

Tot Ion: 43 Resp: 225291

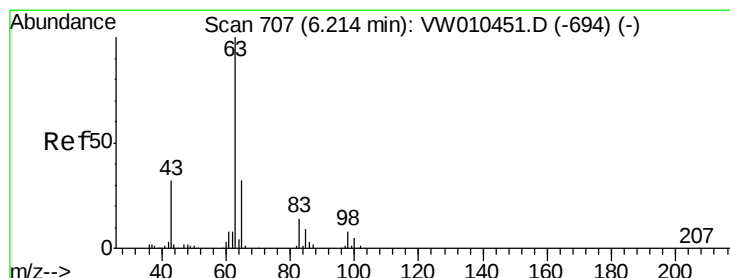
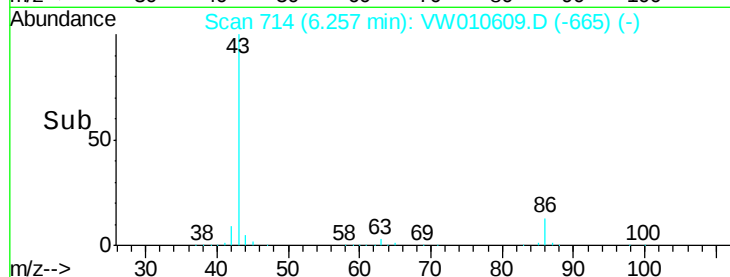
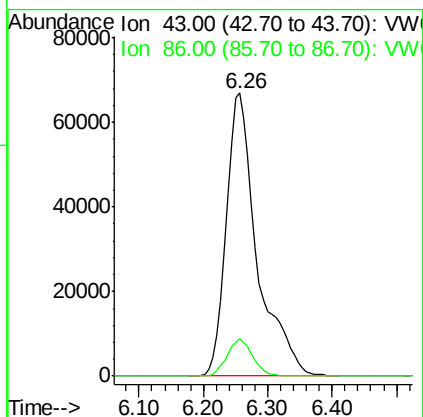
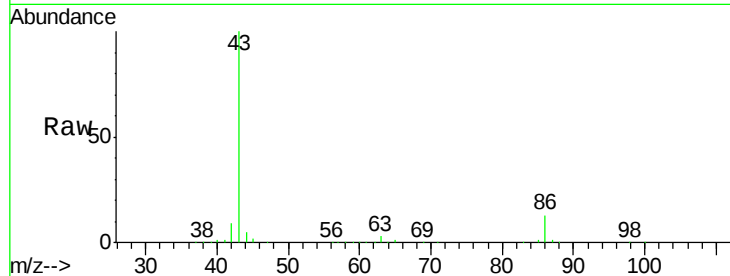
Ion Ratio Lower Upper

43 100

86 13.2 10.3 15.5

Manual Integrations
APPROVED

MMDadoda
6/1/2019 4:27:15 AM



#24

1,1-Dichloroethane

Concen: 20.302 ug/l

RT: 6.22 min Scan# 708

Delta R.T. 0.01 min

Lab File: VW010609.D

Acq: 30 May 2019 12:23

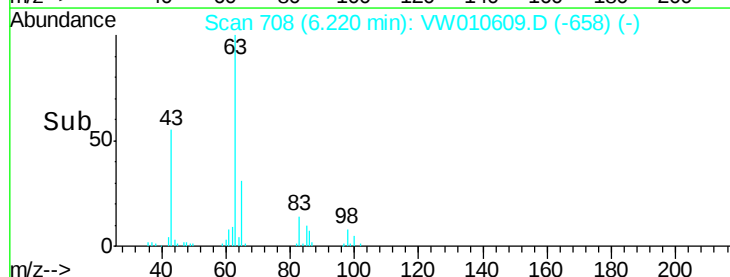
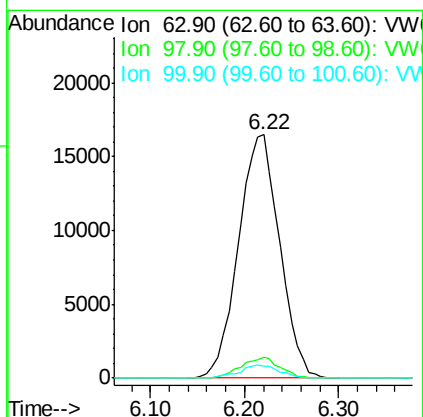
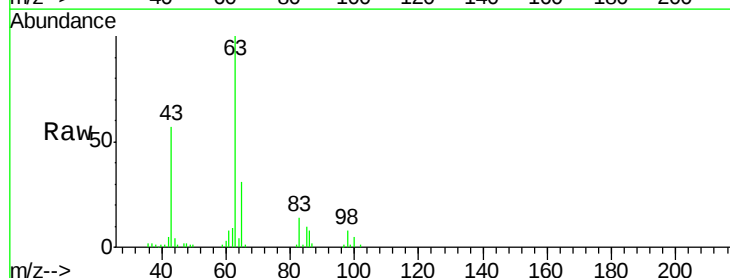
Tgt Ion: 63 Resp: 50297

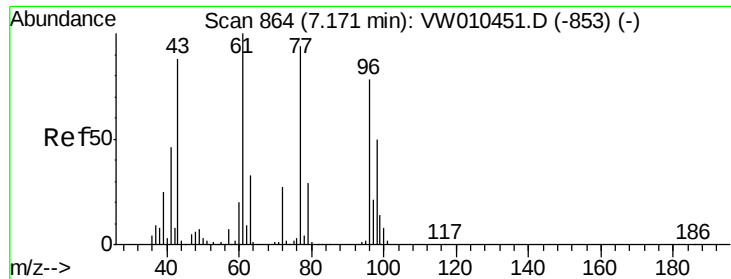
Ion Ratio Lower Upper

63 100

98 8.3 3.8 11.2

100 4.9 2.5 7.4





#25

2-Butanone

Concen: 100.702 ug/l

RT: 7.17 min Scan# 864

Delta R.T. -0.00 min

Lab File: VW010609.D

Acq: 30 May 2019 12:23

Instrument :

MSVOA_W

ClientSampleId :

VW0530SBS01

Tot Ion: 43 Resp: 40208

Ion Ratio Lower Upper

43 100

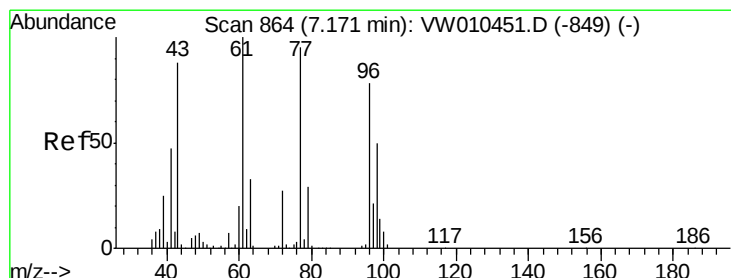
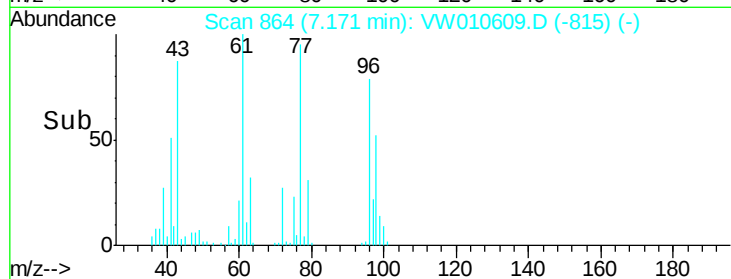
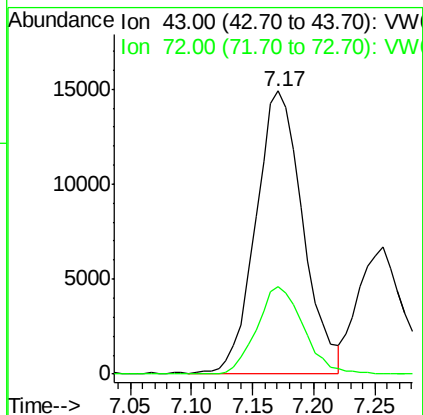
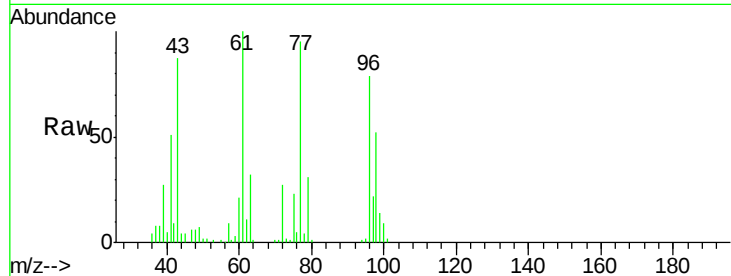
72 31.1 24.1 36.1

Manual Integrations

APPROVED

MMDadoda

6/1/2019 4:27:15 AM



#26

2,2-Dichloropropane

Concen: 20.825 ug/l

RT: 7.16 min Scan# 863

Delta R.T. -0.01 min

Lab File: VW010609.D

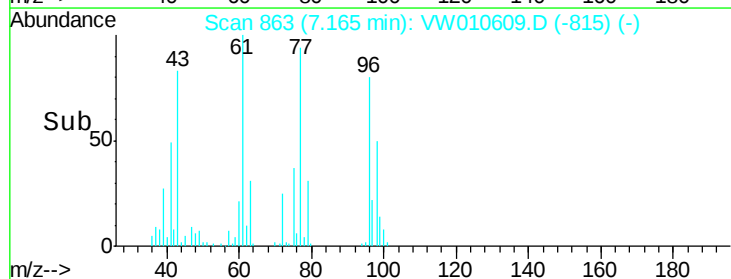
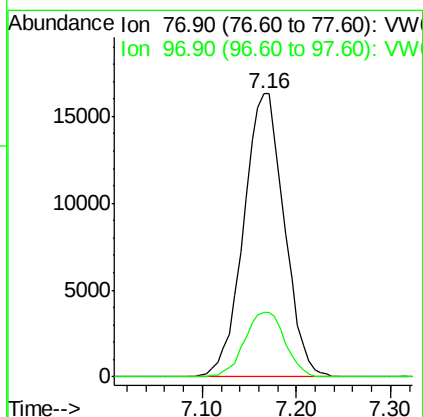
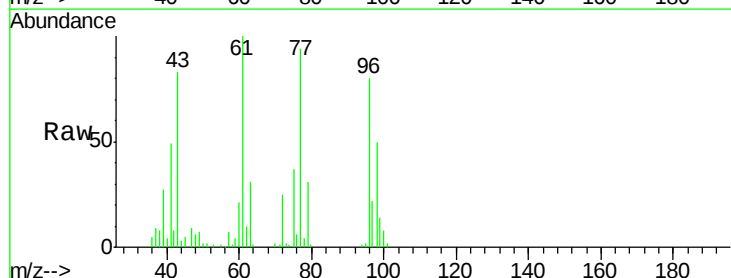
Acq: 30 May 2019 12:23

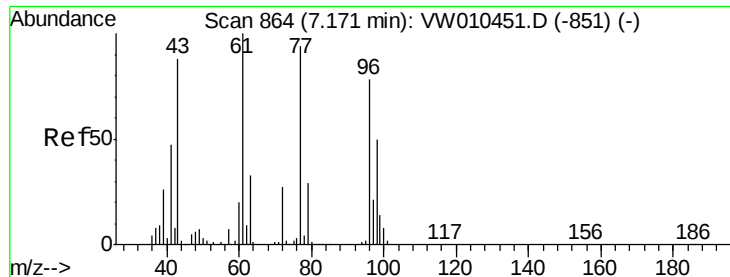
Tgt Ion: 77 Resp: 49144

Ion Ratio Lower Upper

77 100

97 22.9 11.7 35.0





#27

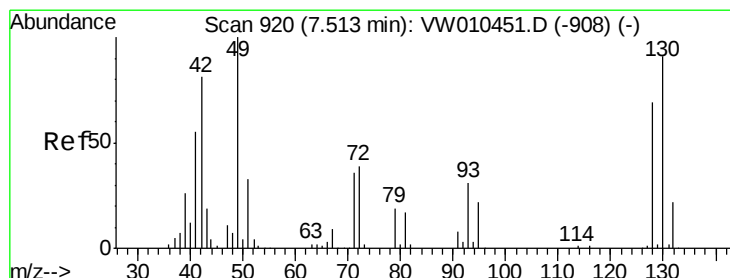
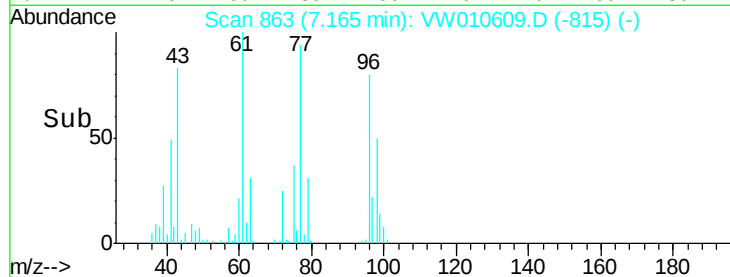
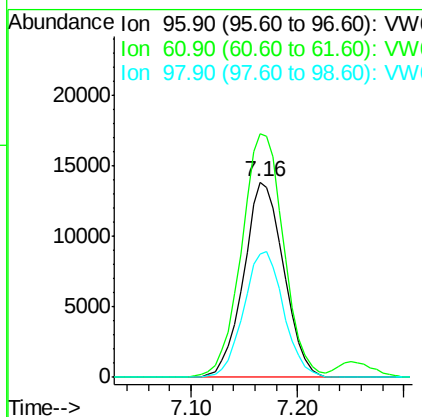
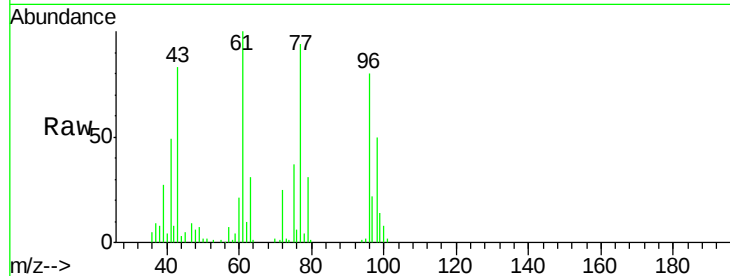
cis-1,2-Dichloroethene
 Concen: 20.965 ug/l
 RT: 7.16 min Scan# 863
 Delta R.T. -0.01 min
 Lab File: VW010609.D
 Acq: 30 May 2019 12:23

Instrument :
 MSVOA_W
 ClientSampleId :
 VW0530SBS01

Tot Ion	Ratio	Lower	Upper
96	100		
61	131.0	0.0	265.4
98	64.3	0.0	129.4

Manual Integrations
 APPROVED

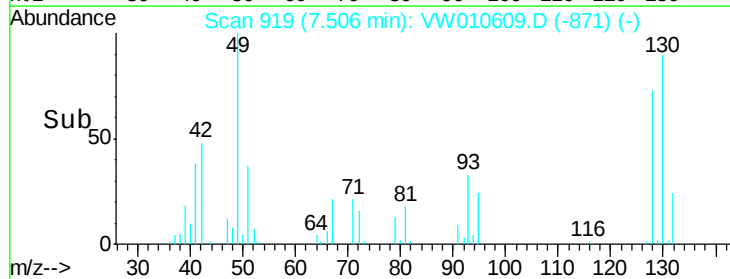
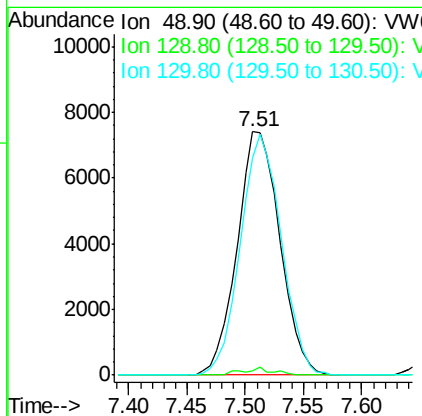
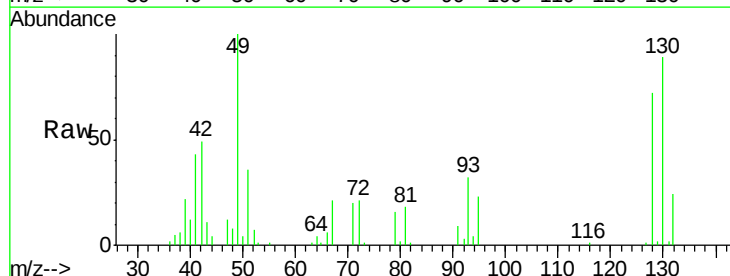
MMDadoda
 6/1/2019 4:27:15 AM

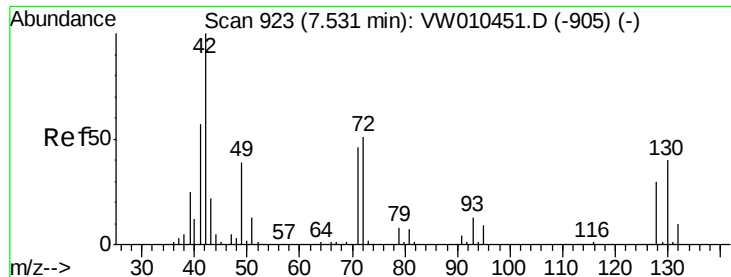


#28

Bromochloromethane
 Concen: 21.350 ug/l
 RT: 7.51 min Scan# 919
 Delta R.T. -0.01 min
 Lab File: VW010609.D
 Acq: 30 May 2019 12:23

Tgt Ion	Ratio	Lower	Upper
49	100		
129	2.2	0.0	4.8
130	94.8	71.2	106.8





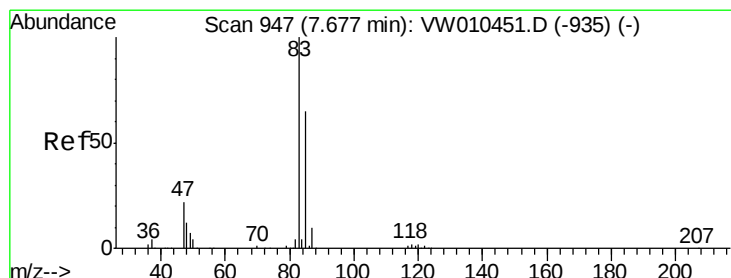
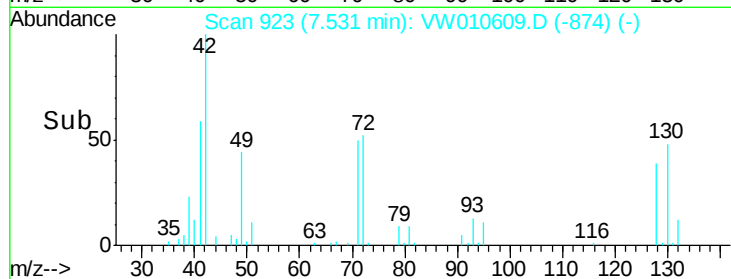
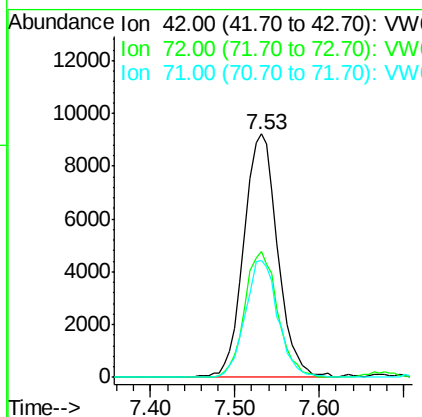
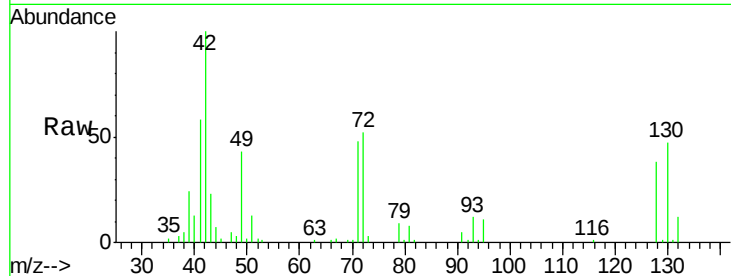
#29
Tetrahydrofuran
Concen: 92.711 ug/l
RT: 7.53 min Scan# 923
Delta R.T. -0.00 min
Lab File: VW010609.D
Acq: 30 May 2019 12:23

Instrument :
MSVOA_W
ClientSampleId :
VW0530SBS01

Tot Ion	Ratio	Lower	Upper
42	100		
72	50.2	38.5	57.7
71	46.3	36.5	54.7

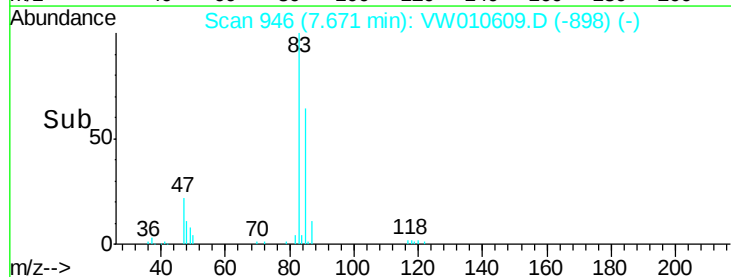
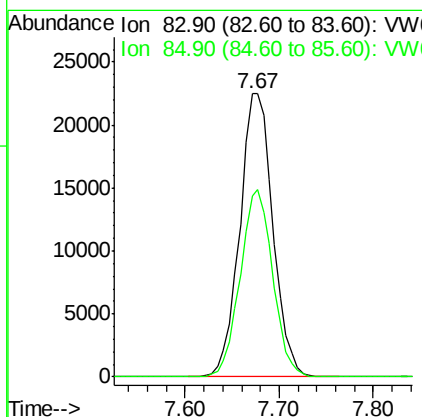
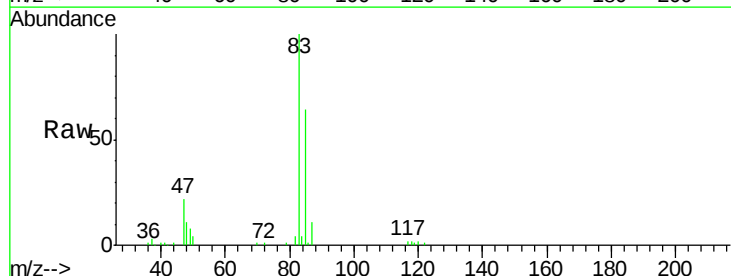
Manual Integrations
APPROVED

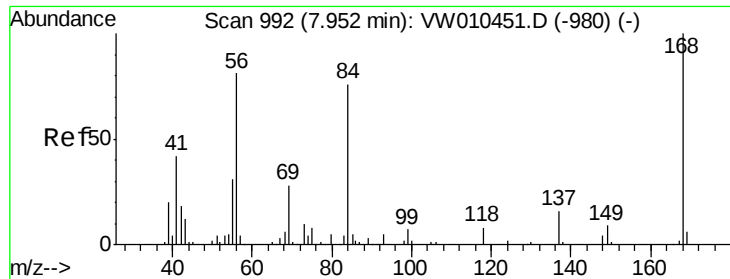
MMDadoda
6/1/2019 4:27:15 AM



#30
Chloroform
Concen: 20.681 ug/l
RT: 7.67 min Scan# 946
Delta R.T. -0.01 min
Lab File: VW010609.D
Acq: 30 May 2019 12:23

Tgt Ion	Ratio	Lower	Upper
83	100		
85	63.7	52.2	78.4





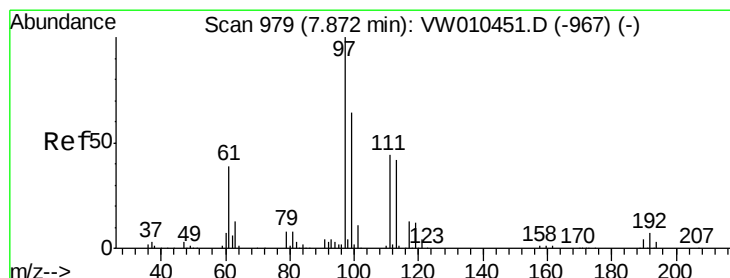
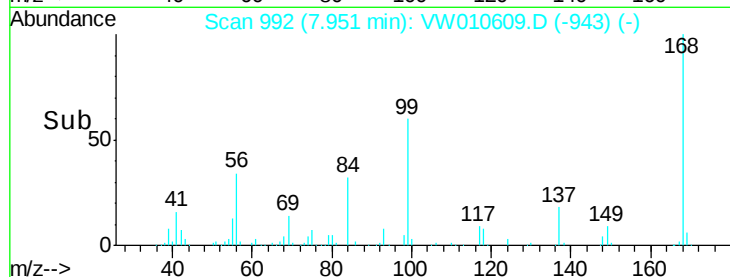
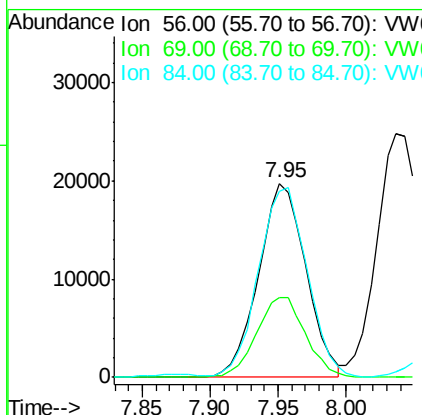
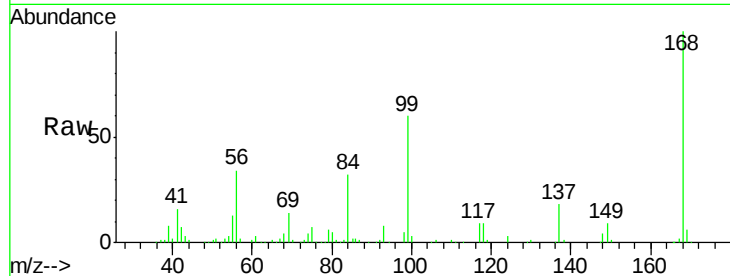
#31
Cyclohexane
Concen: 18.534 ug/l
RT: 7.95 min Scan# 992
Delta R.T. -0.00 min
Lab File: VW010609.D
Acq: 30 May 2019 12:23

Instrument :
MSVOA_W
ClientSampleId :
VW0530SBS01

Tot Ion	Ratio	Lower	Upper
56	100		
69	40.9	28.2	42.2
84	95.0	75.8	113.8

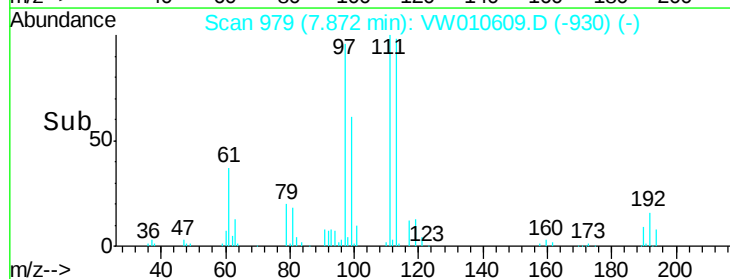
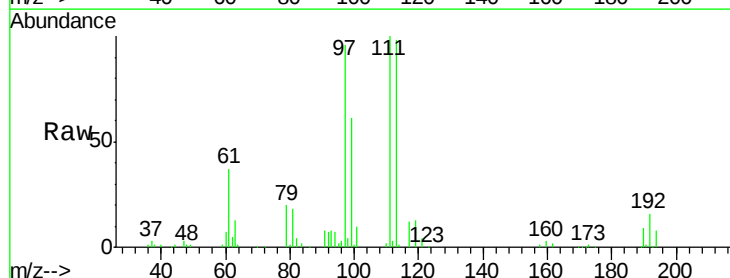
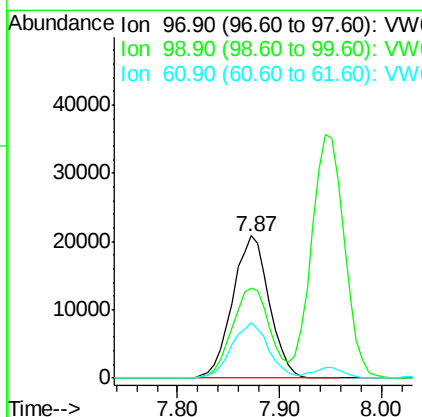
Manual Integrations
APPROVED

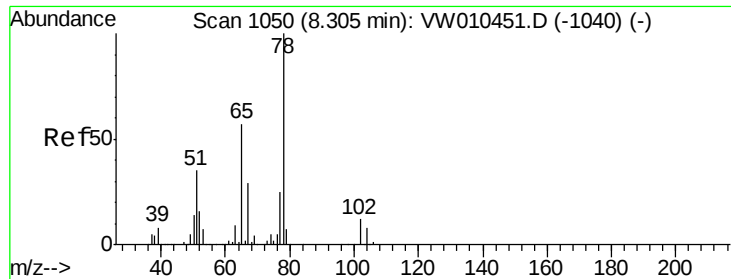
MMDadoda
6/1/2019 4:27:15 AM



#32
1,1,1-Trichloroethane
Concen: 20.307 ug/l
RT: 7.87 min Scan# 979
Delta R.T. -0.00 min
Lab File: VW010609.D
Acq: 30 May 2019 12:23

Tgt Ion	Ratio	Lower	Upper
97	100		
99	65.7	50.8	76.2
61	39.1	32.1	48.1





#33

1,2-Dichloroethane-d4

Concen: 48.851 ug/l

RT: 8.30 min Scan# 1050

Delta R.T. -0.00 min

Lab File: VW010609.D

Acq: 30 May 2019 12:23

Instrument :

MSVOA_W

ClientSampleId :

VW0530SBSD01

Tot Ion: 65 Resp: 66771

Ion Ratio Lower Upper

65 100

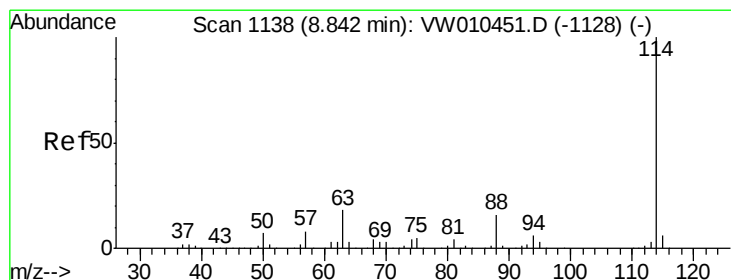
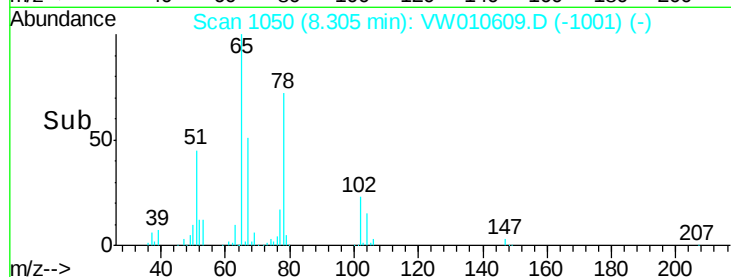
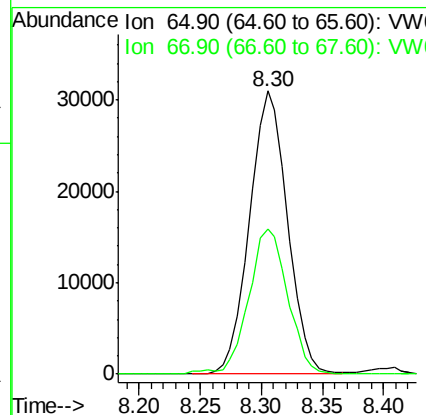
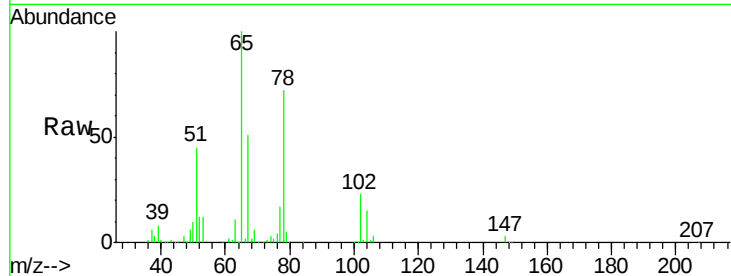
67 53.2 0.0 103.6

Manual Integrations

APPROVED

MMDadoda

6/1/2019 4:27:15 AM



#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 8.84 min Scan# 1138

Delta R.T. -0.00 min

Lab File: VW010609.D

Acq: 30 May 2019 12:23

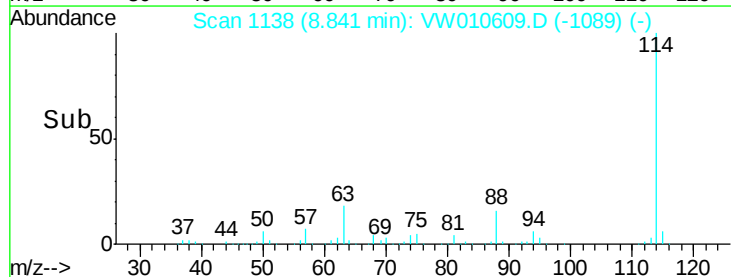
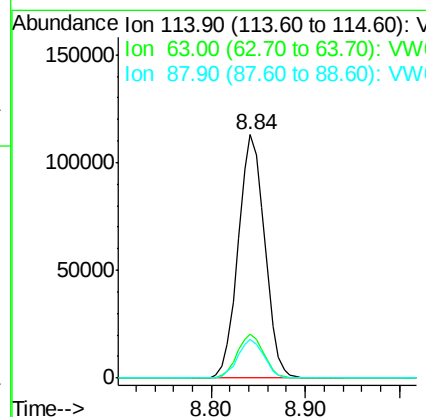
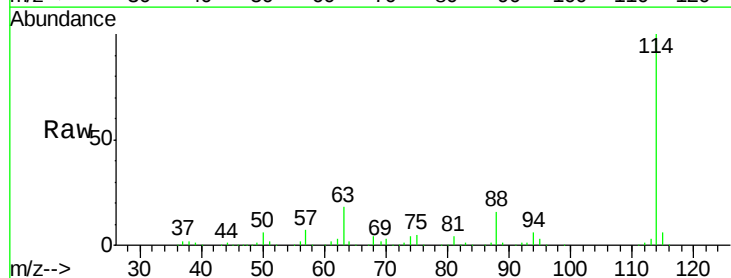
Tgt Ion: 114 Resp: 221422

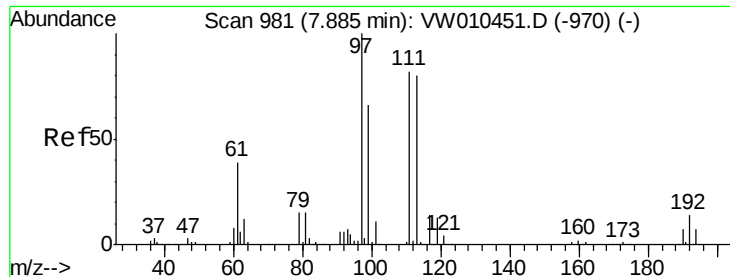
Ion Ratio Lower Upper

114 100

63 18.0 0.0 36.0

88 15.9 0.0 32.0





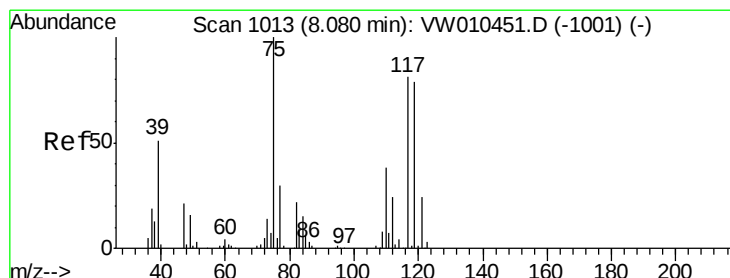
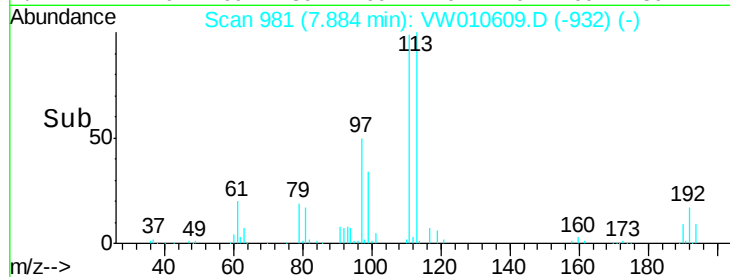
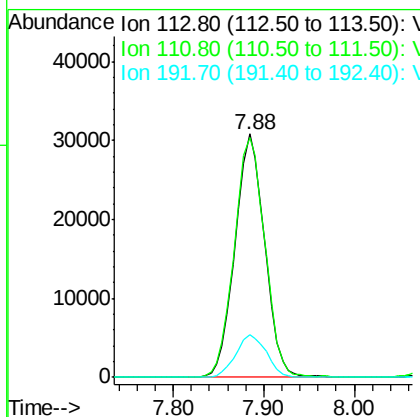
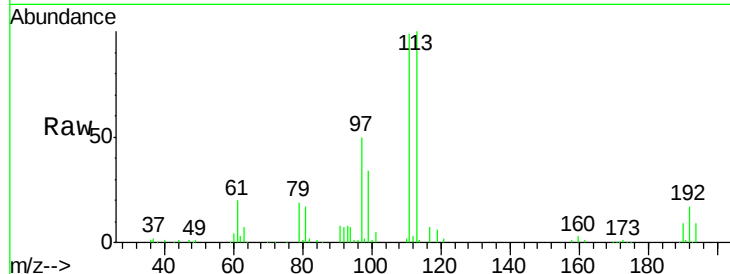
#35
 Dibromofluoromethane
 Concen: 51.968 ug/l
 RT: 7.88 min Scan# 981
 Delta R.T. -0.00 min
 Lab File: VW010609.D
 Acq: 30 May 2019 12:23

Instrument :
 MSVOA_W
 ClientSampleId :
 VW0530SBS01

Tot Ion	Ratio	Resp	Lower	Upper
113	100	69821		
111	102.1		82.2	123.4
192	18.0		14.3	21.5

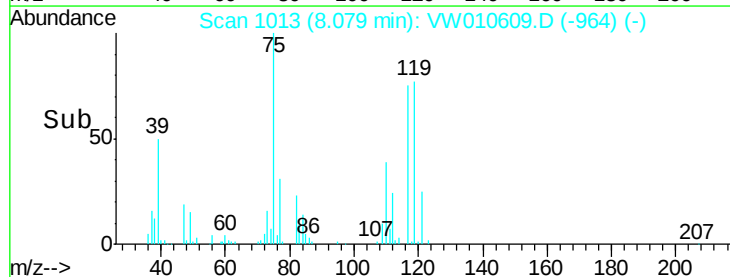
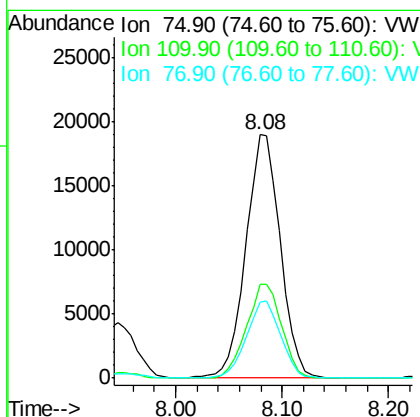
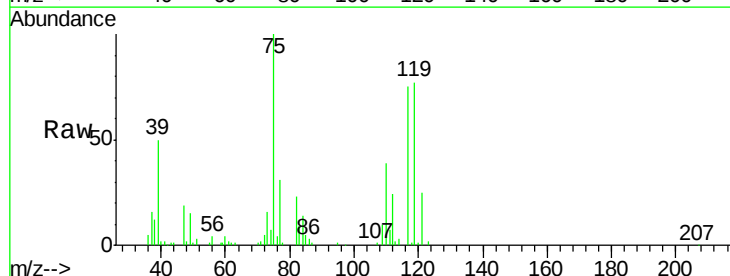
Manual Integrations
 APPROVED

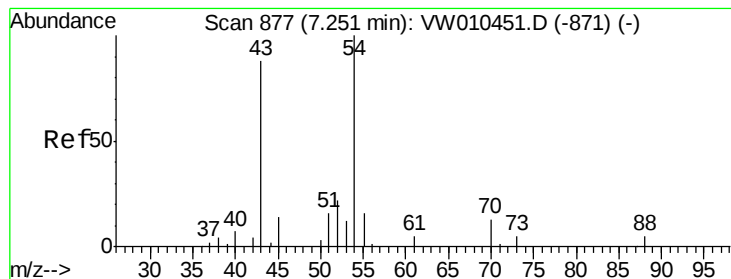
MMDadoda
 6/1/2019 4:27:15 AM



#36
 1,1-Dichloropropene
 Concen: 20.906 ug/l
 RT: 8.08 min Scan# 1013
 Delta R.T. -0.00 min
 Lab File: VW010609.D
 Acq: 30 May 2019 12:23

Tgt Ion	Ratio	Resp	Lower	Upper
75	100	43122		
110	39.2		19.2	57.6
77	31.3		25.2	37.8





#37

Ethyl Acetate

Concen: 19.894 ug/l

RT: 7.26 min Scan# 878

Delta R.T. 0.01 min

Lab File: VW010609.D

Acq: 30 May 2019 12:23

Instrument :

MSVOA_W

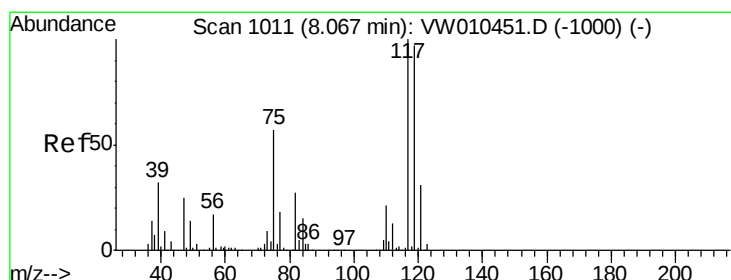
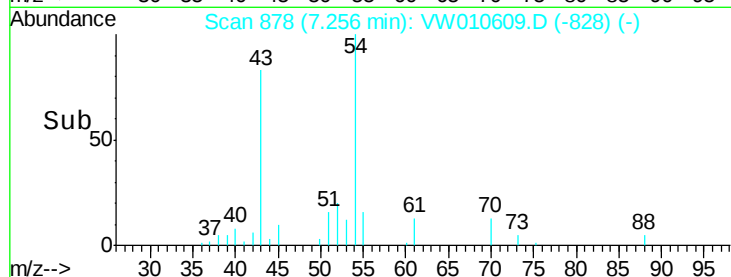
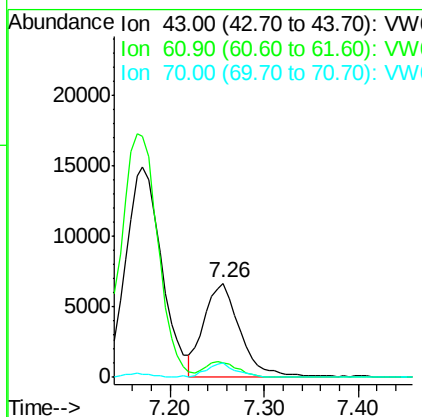
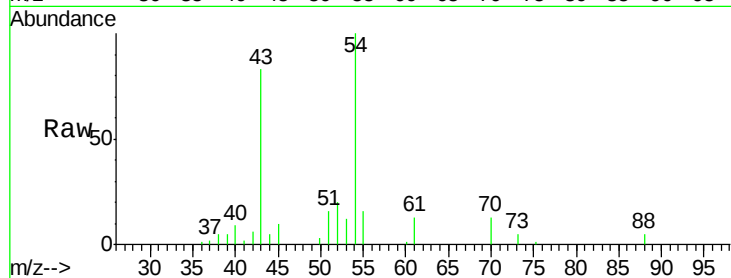
ClientSampleId :

VW0530SBS01

Tot Ion:	43	Resp:	17450
Ion	Ratio	Lower	Upper
43	100		
61	15.2	11.2	16.8
70	12.8	9.9	14.9

Manual Integrations
APPROVED

MMDadoda
6/1/2019 4:27:15 AM



#38

Carbon Tetrachloride

Concen: 20.731 ug/l

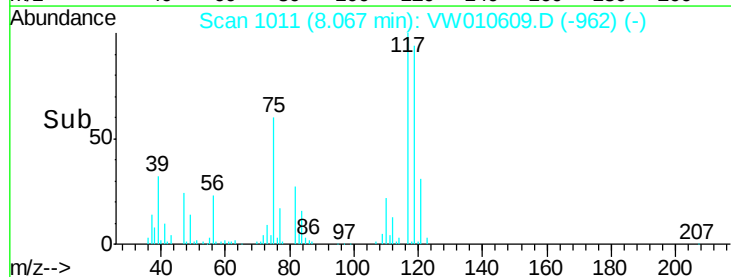
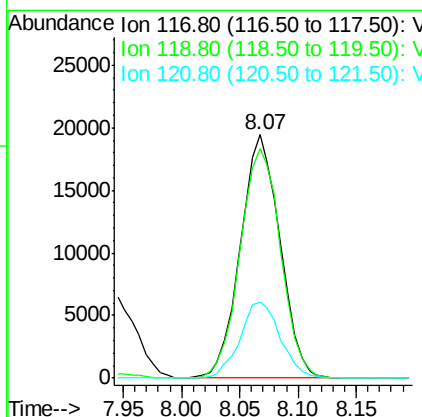
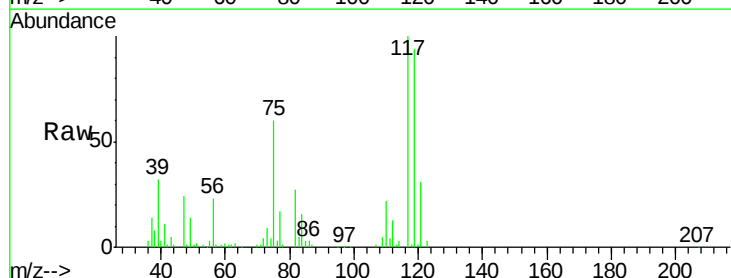
RT: 8.07 min Scan# 1011

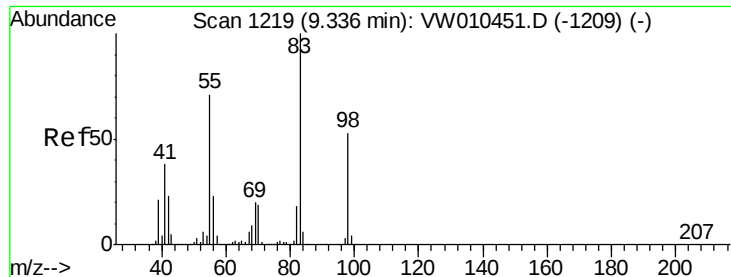
Delta R.T. -0.00 min

Lab File: VW010609.D

Acq: 30 May 2019 12:23

Tgt Ion:	117	Resp:	46128
Ion	Ratio	Lower	Upper
117	100		
119	94.3	77.4	116.0
121	31.3	25.0	37.6





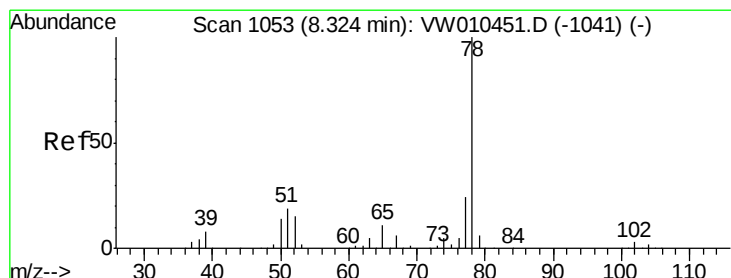
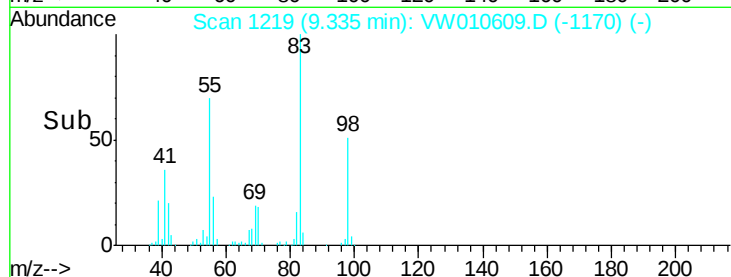
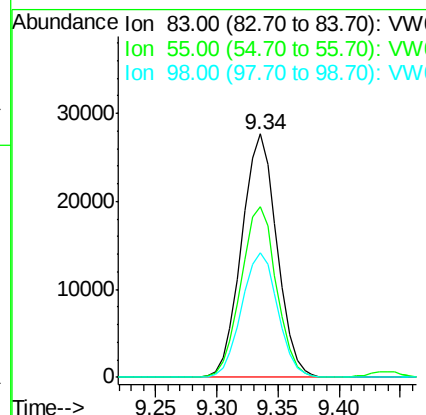
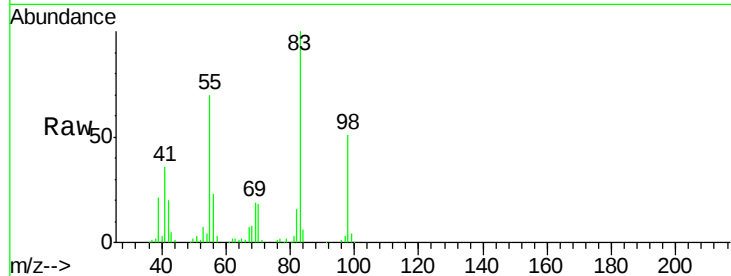
#39
Methvlcvclohexane
Concen: 20.041 ug/l
RT: 9.34 min Scan# 1219
Delta R.T. -0.00 min
Lab File: VW010609.D
Acq: 30 May 2019 12:23

Instrument :
MSVOA_W
ClientSampleId :
VW0530SBS01

Tot Ion	Ratio	Lower	Upper
83	100		
55	70.3	57.0	85.6
98	51.0	42.0	63.0

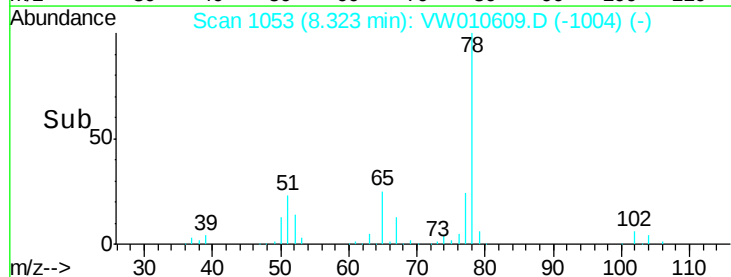
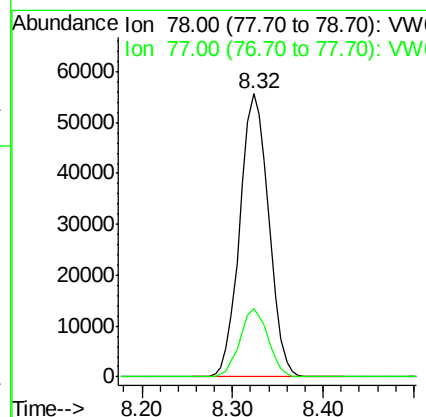
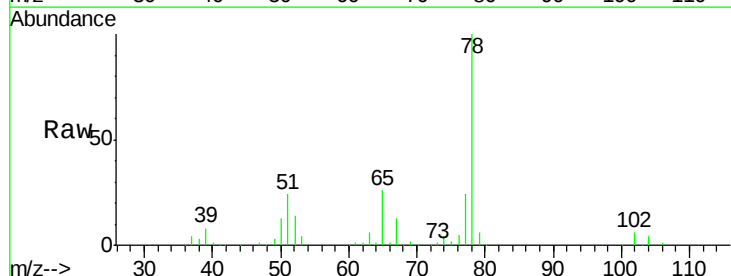
Manual Integrations
APPROVED

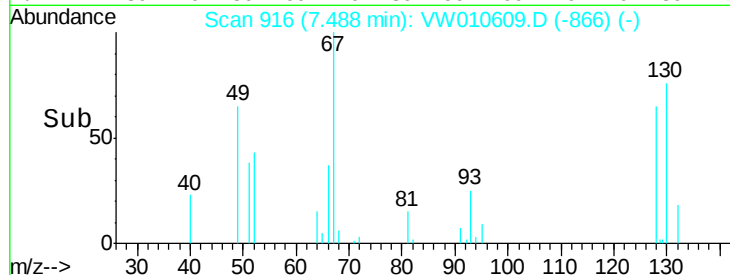
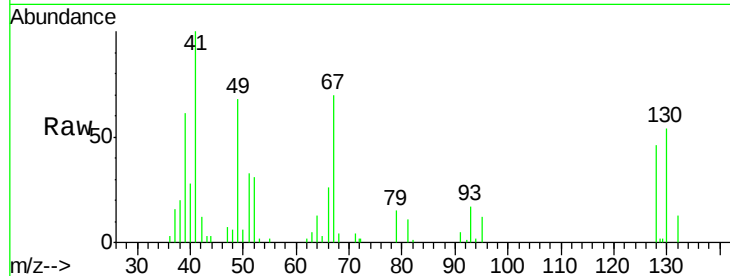
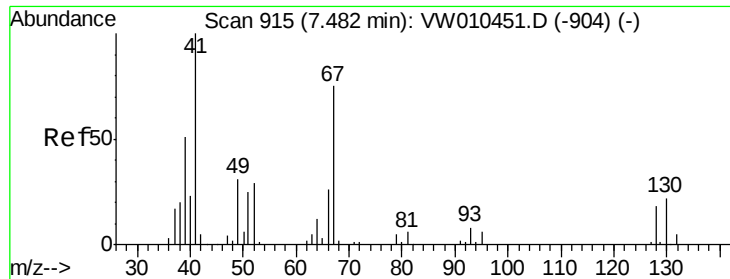
MMDadoda
6/1/2019 4:27:15 AM



#40
Benzene
Concen: 21.463 ug/l
RT: 8.32 min Scan# 1053
Delta R.T. -0.00 min
Lab File: VW010609.D
Acq: 30 May 2019 12:23

Tgt Ion	Ratio	Lower	Upper
78	100		
77	24.3	18.9	28.3





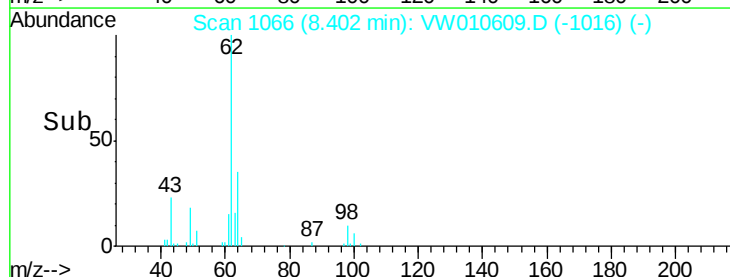
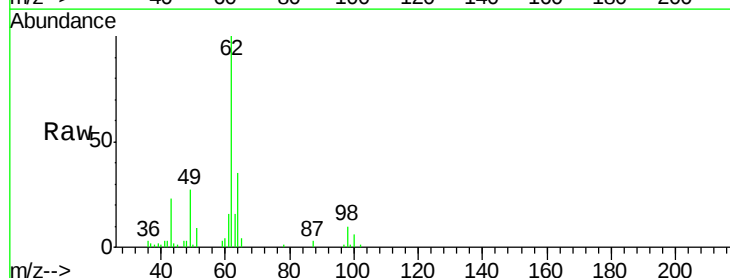
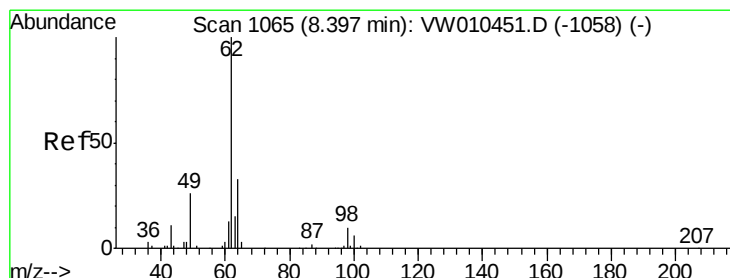
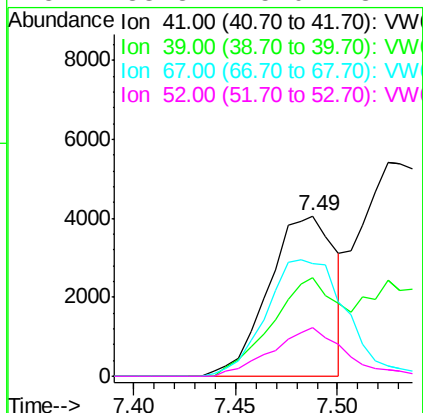
#41
Methacrylonitrile
Concen: 17.651 ug/l
RT: 7.49 min Scan# 916
Delta R.T. 0.01 min
Lab File: VW010609.D
Acq: 30 May 2019 12:23

Tot Ion	41	Resp:	9199
Ion	Ratio	Lower	Upper
41	100		
39	64.3	47.4	71.2
67	87.4	65.5	98.3
52	33.3	25.0	37.4

Instrument :
MSVOA_W
ClientSampleId :
VW0530SBS01

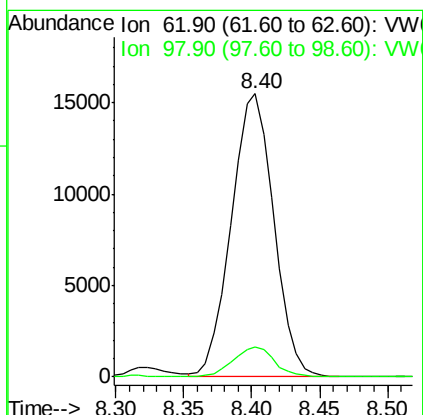
Manual Integrations
APPROVED

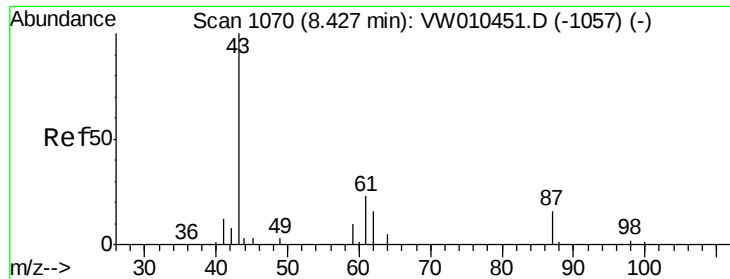
MMDadoda
6/1/2019 4:27:15 AM



#42
1,2-Dichloroethane
Concen: 20.630 ug/l
RT: 8.40 min Scan# 1066
Delta R.T. 0.01 min
Lab File: VW010609.D
Acq: 30 May 2019 12:23

Tgt Ion	62	Resp:	33803
Ion	Ratio	Lower	Upper
62	100		
98	10.2	0.0	21.0





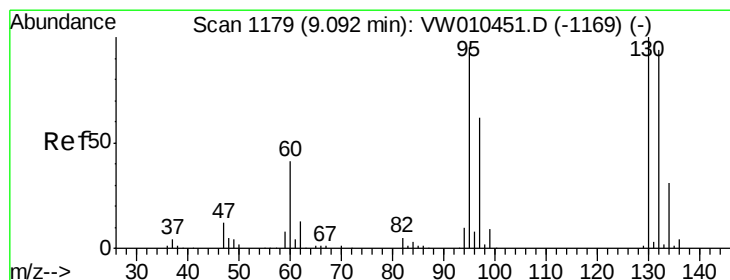
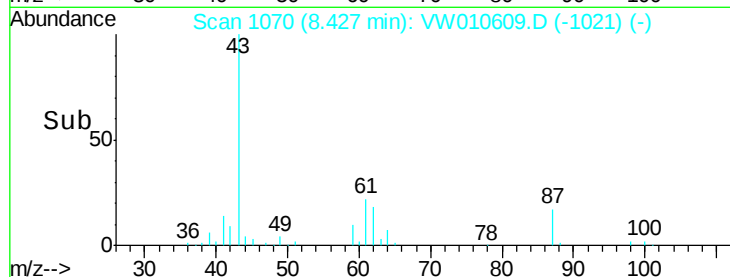
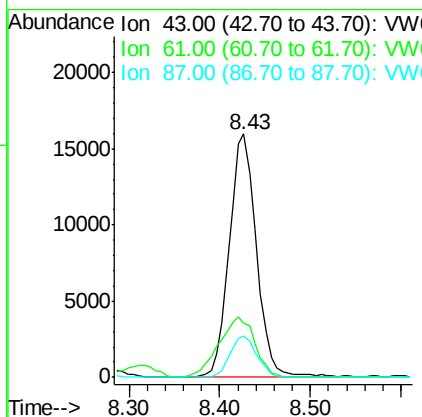
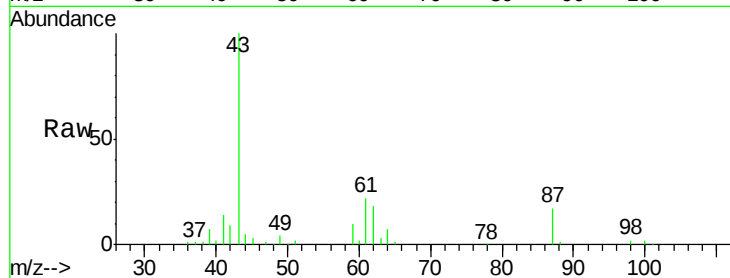
#43
Isopropyl Acetate
Concen: 19.023 ug/l
RT: 8.43 min Scan# 1070
Delta R.T. -0.00 min
Lab File: VW010609.D
Acq: 30 May 2019 12:23

Instrument :
MSVOA_W
ClientSampleId :
VW0530SBS01

Tot Ion	Ratio	Lower	Upper
43	100		
61	32.9	25.4	38.2
87	16.8	12.7	19.1

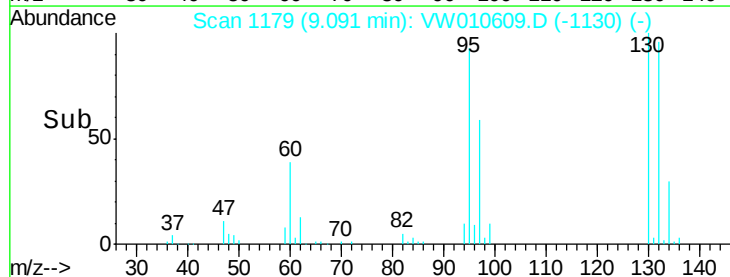
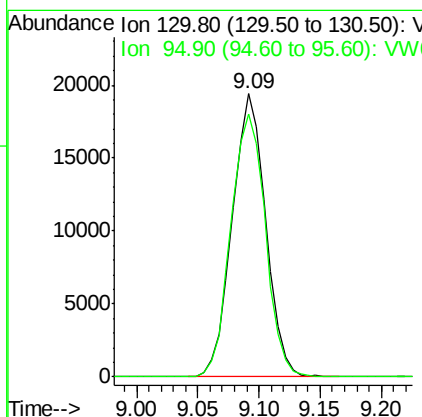
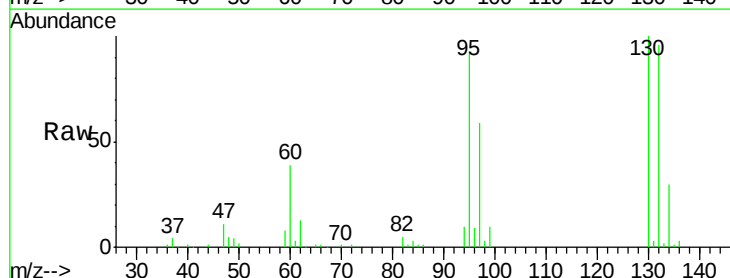
Manual Integrations
APPROVED

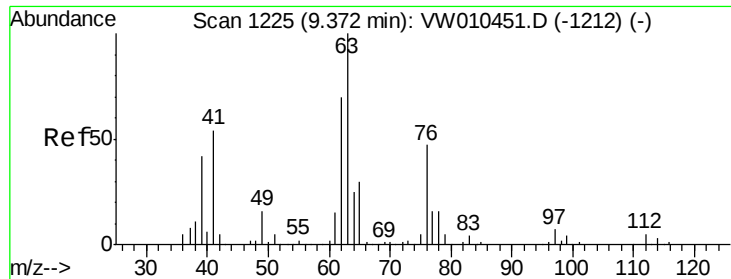
MMDadoda
6/1/2019 4:27:15 AM



#44
Trichloroethene
Concen: 21.601 ug/l
RT: 9.09 min Scan# 1179
Delta R.T. -0.00 min
Lab File: VW010609.D
Acq: 30 May 2019 12:23

Tgt Ion	Ratio	Lower	Upper
130	100		
95	92.7	0.0	189.6





#45

1,2-Dichloropropane

Concen: 21.328 ug/l

RT: 9.37 min Scan# 1225

Delta R.T. -0.00 min

Lab File: VW010609.D

Acq: 30 May 2019 12:23

Instrument :

MSVOA_W

ClientSampleId :

VW0530SBSD01

Tot Ion: 63 Resp: 29040

Ion Ratio Lower Upper

63 100

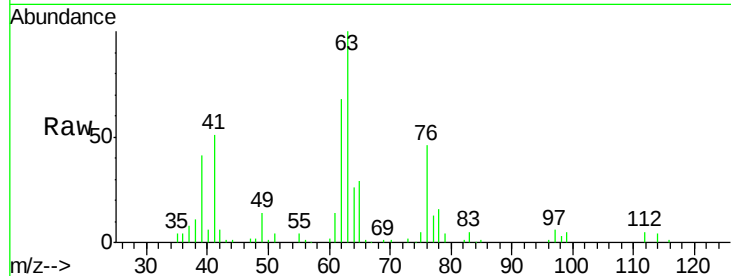
65 29.5 24.3 36.5

Manual Integrations

APPROVED

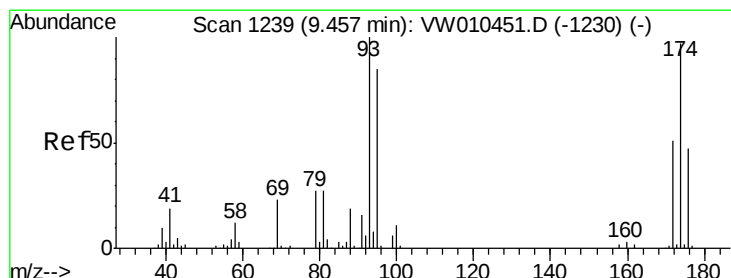
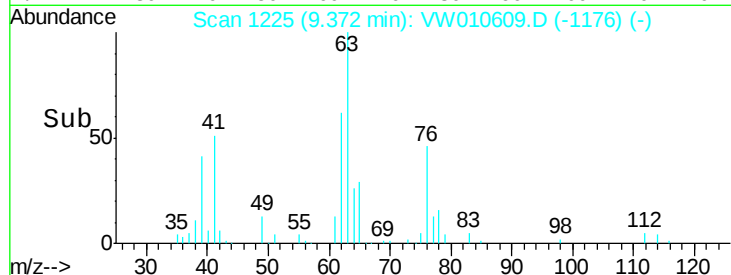
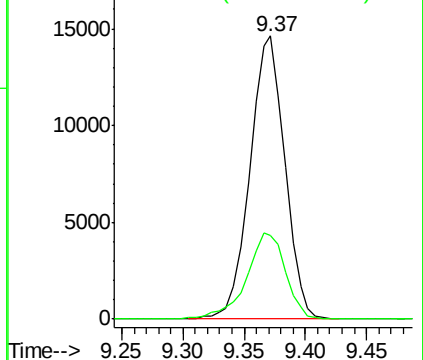
MMDadoda

6/1/2019 4:27:15 AM



Abundance Ion 62.90 (62.60 to 63.60): VW

Ion 64.90 (64.60 to 65.60): VW



#46

Dibromomethane

Concen: 21.024 ug/l

RT: 9.46 min Scan# 1239

Delta R.T. -0.00 min

Lab File: VW010609.D

Acq: 30 May 2019 12:23

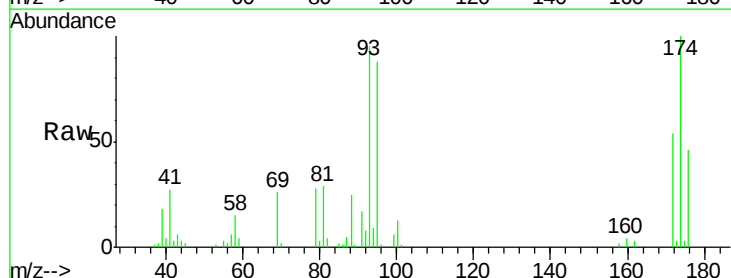
Tgt Ion: 93 Resp: 16741

Ion Ratio Lower Upper

93 100

95 84.3 66.1 99.1

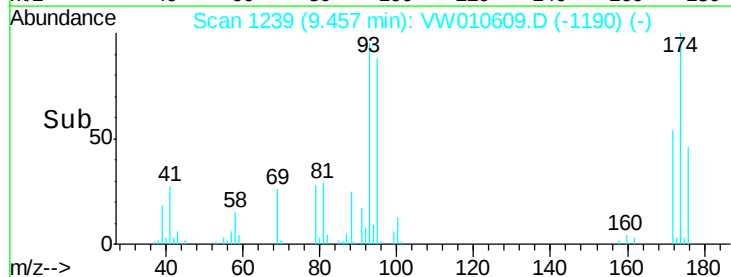
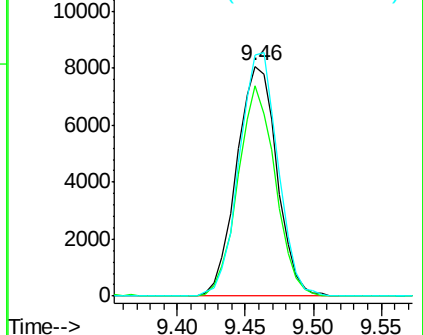
174 101.6 77.1 115.7

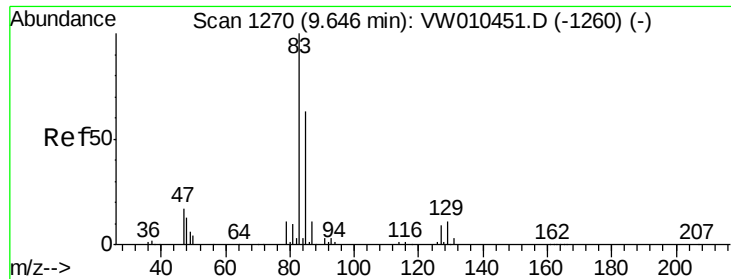


Abundance Ion 92.80 (92.50 to 93.50): VW

Ion 94.80 (94.50 to 95.50): VW

Ion 173.70 (173.40 to 174.40): V





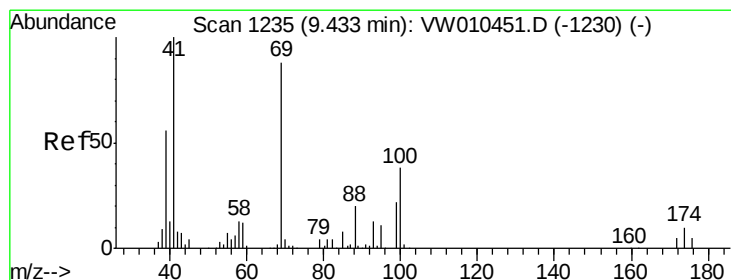
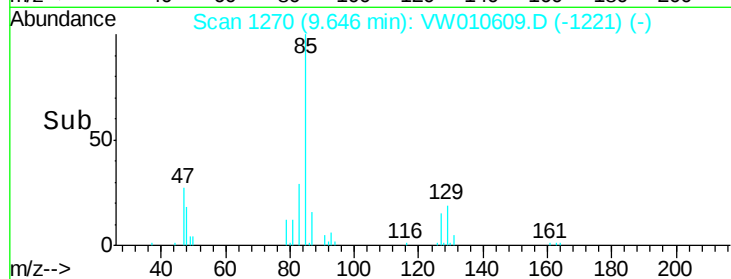
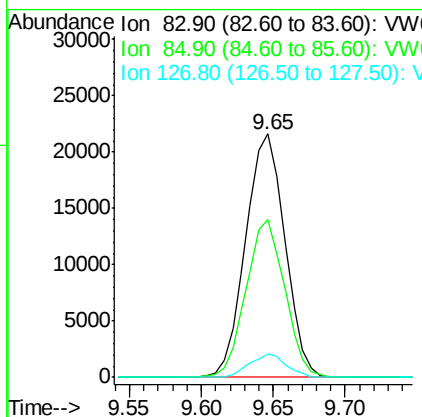
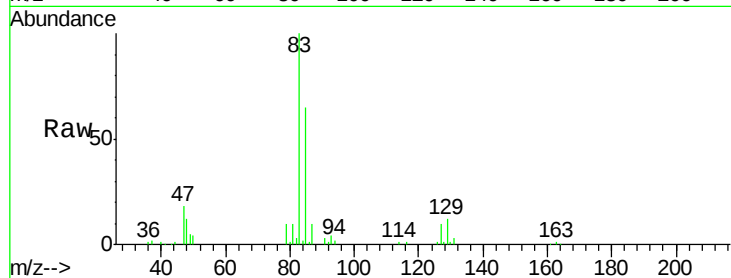
#47
 Bromodichloromethane
 Concen: 20.388 ug/l
 RT: 9.65 min Scan# 1270
 Delta R.T. -0.00 min
 Lab File: VW010609.D
 Acq: 30 May 2019 12:23

Instrument :
 MSVOA_W
 ClientSampleId :
 VW0530SBS01

Tot Ion	83	Resp	40798
Ion Ratio	100	Lower	Upper
85	64.6	50.4	75.6
127	9.8	7.4	11.0

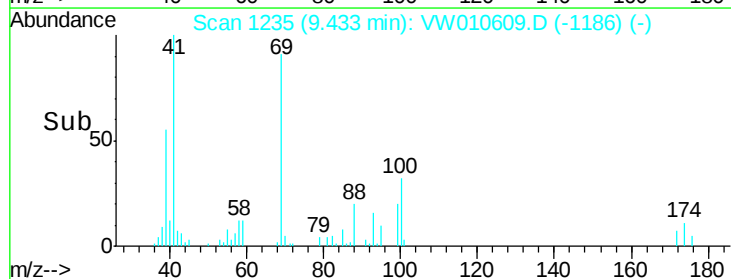
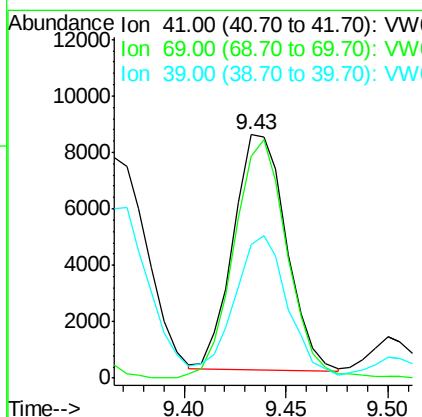
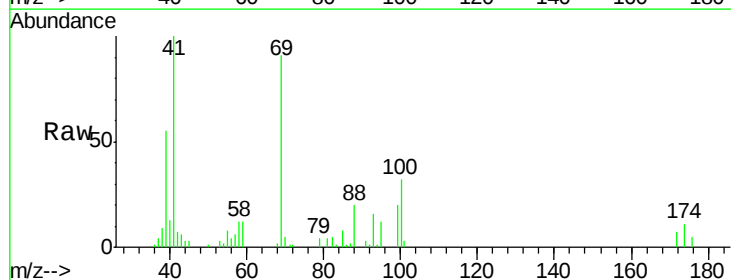
Manual Integrations
 APPROVED

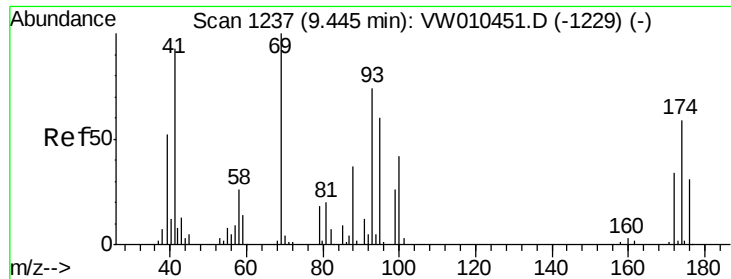
MMDadoda
 6/1/2019 4:27:15 AM



#48
 Methyl methacrylate
 Concen: 18.790 ug/l
 RT: 9.43 min Scan# 1235
 Delta R.T. -0.00 min
 Lab File: VW010609.D
 Acq: 30 May 2019 12:23

Tgt Ion	41	Resp	15063
Ion Ratio	100	Lower	Upper
69	102.0	77.6	116.4
39	58.2	49.8	74.8





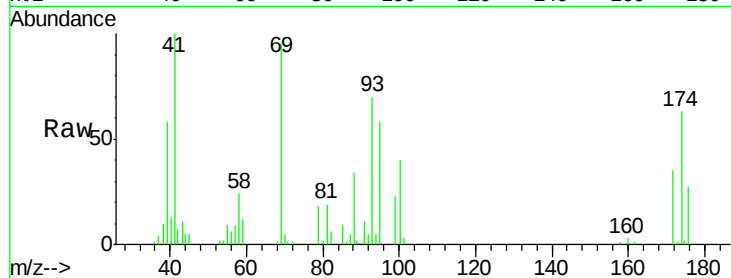
#49
1,4-Dioxane
Concen: 411.062 ug/l
RT: 9.44 min Scan# 1237
Delta R.T. -0.00 min
Lab File: VW010609.D
Acq: 30 May 2019 12:23

Instrument :
MSVOA_W
ClientSampleId :
VW0530SBS01

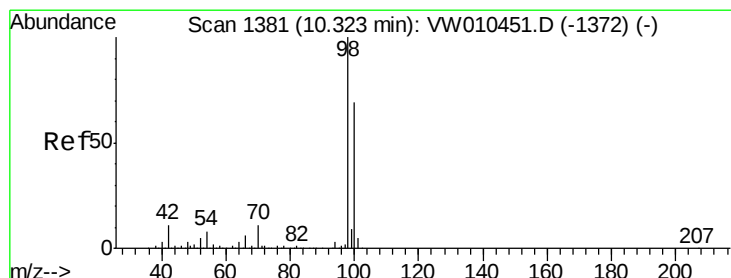
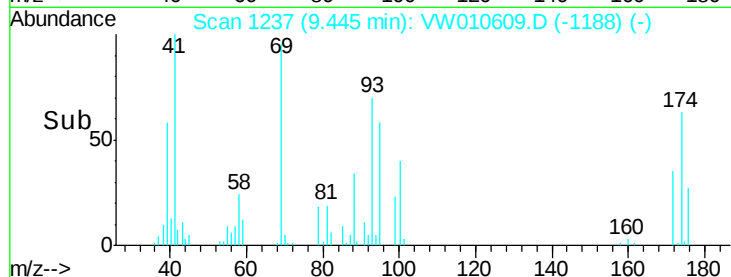
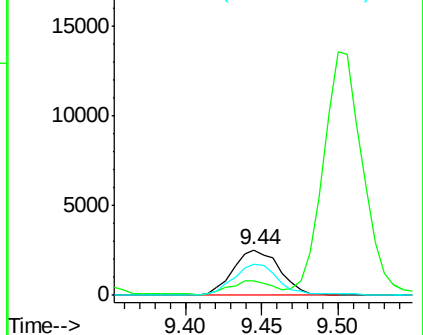
Tot Ion	Ratio	Lower	Upper
88	100		
43	29.8	25.9	38.9
58	66.4	52.7	79.1

Manual Integrations
APPROVED

MMDadoda
6/1/2019 4:27:15 AM

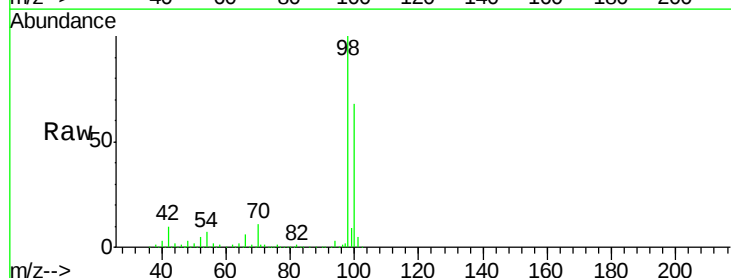


Abundance Ion 88.00 (87.70 to 88.70): VW
Ion 43.00 (42.70 to 43.70): VW
Ion 58.00 (57.70 to 58.70): VW

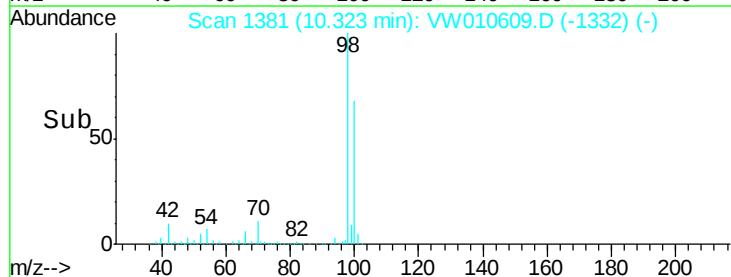
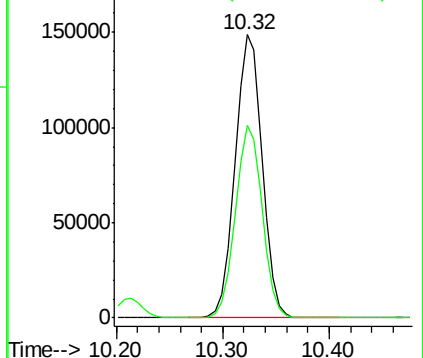


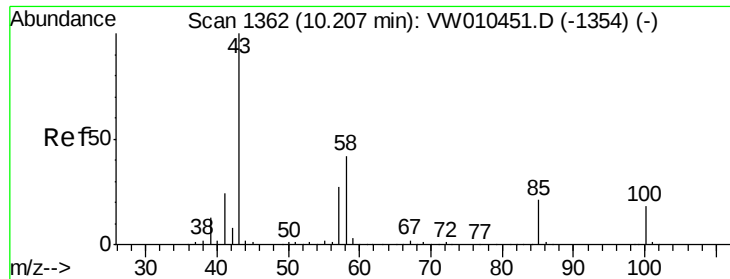
#50
Toluene-d8
Concen: 51.646 ug/l
RT: 10.32 min Scan# 1381
Delta R.T. -0.00 min
Lab File: VW010609.D
Acq: 30 May 2019 12:23

Tgt Ion	Ratio	Lower	Upper
98	100		
100	67.4	53.7	80.5



Abundance Ion 98.00 (97.70 to 98.70): VW
Ion 100.00 (99.70 to 100.70): VW





#51

4-Methyl-2-Pentanone

Concen: 99.637 ug/l

RT: 10.21 min Scan# 1363

Delta R.T. 0.01 min

Lab File: VW010609.D

Acq: 30 May 2019 12:23

Instrument :

MSVOA_W

ClientSampleId :

VW0530SBS01

Tot Ion: 43 Resp: 88472

Ion Ratio Lower Upper

43 100

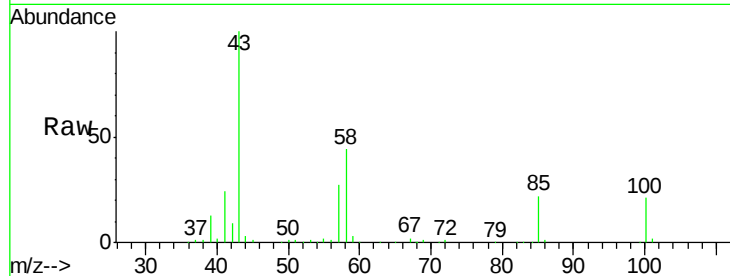
58 42.1 33.2 49.8

Manual Integrations

APPROVED

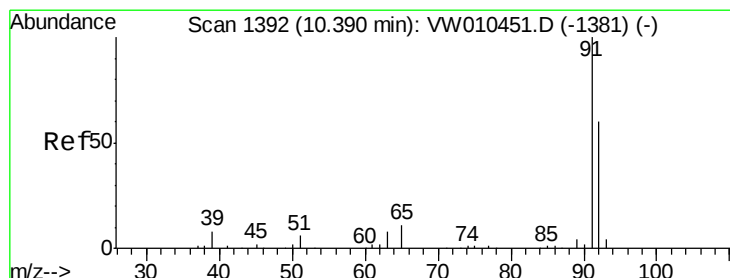
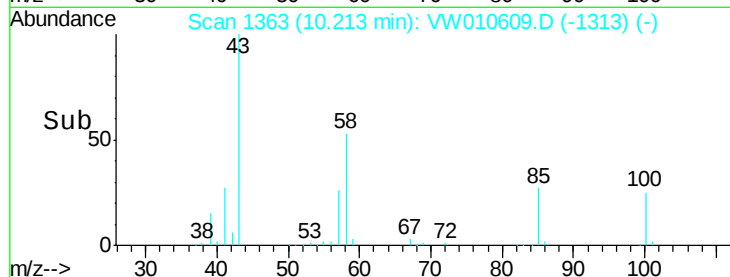
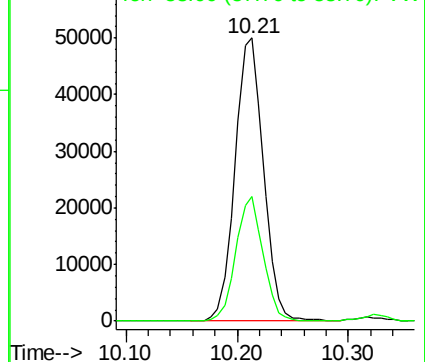
MMDadoda

6/1/2019 4:27:15 AM



Abundance Ion 43.00 (42.70 to 43.70): VW

Ion 58.00 (57.70 to 58.70): VW



#52

Toluene

Concen: 21.611 ug/l

RT: 10.39 min Scan# 1392

Delta R.T. -0.00 min

Lab File: VW010609.D

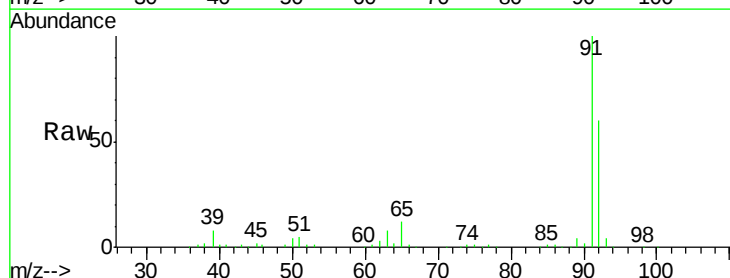
Acq: 30 May 2019 12:23

Tgt Ion: 92 Resp: 83205

Ion Ratio Lower Upper

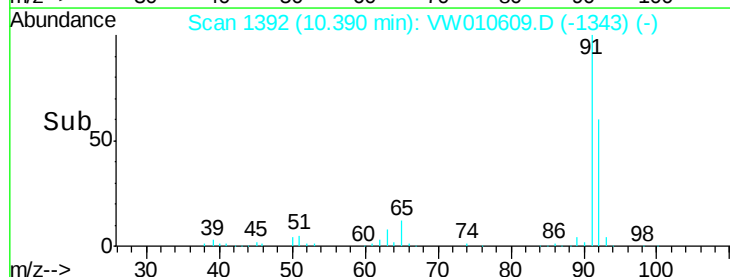
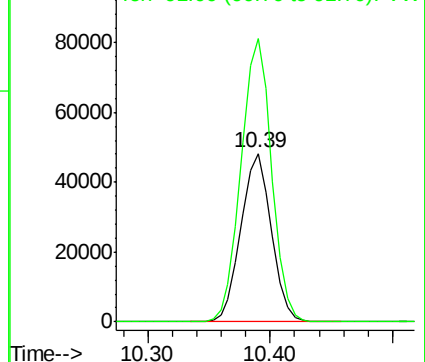
92 100

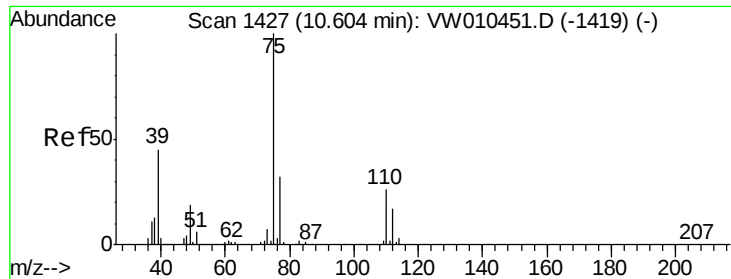
91 168.9 135.4 203.0



Abundance Ion 92.00 (91.70 to 92.70): VW

Ion 91.00 (90.70 to 91.70): VW





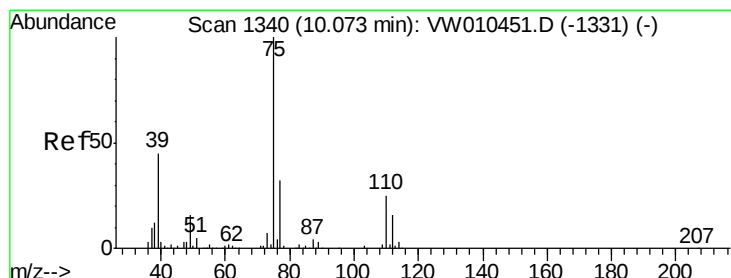
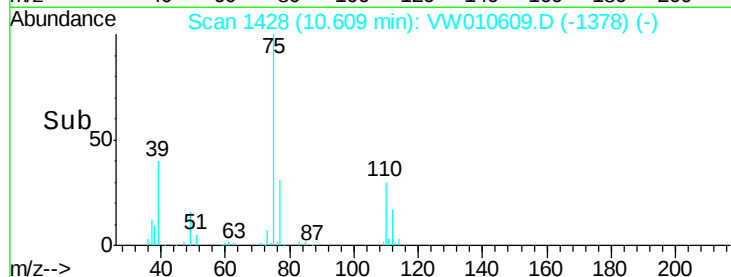
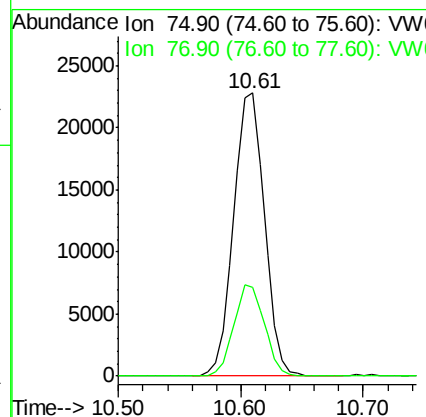
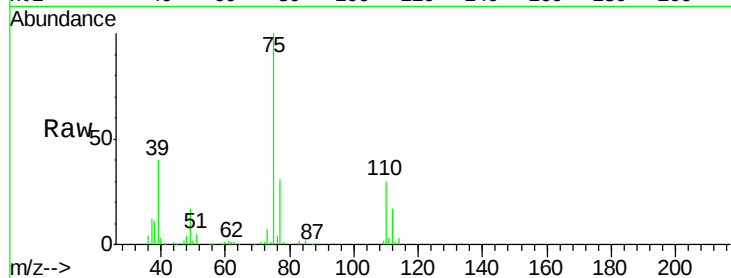
#53
 t-1,3-Dichloropropene
 Concen: 19.645 ug/l
 RT: 10.61 min Scan# 1428
 Delta R.T. 0.01 min
 Lab File: VW010609.D
 Acq: 30 May 2019 12:23

Instrument :
 MSVOA_W
 ClientSampleId :
 VW0530SBS01

Tot Ion: 75 Resp: 39813
 Ion Ratio Lower Upper
 75 100
 77 31.3 25.4 38.0

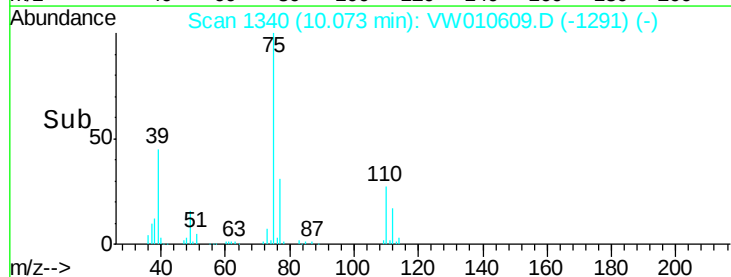
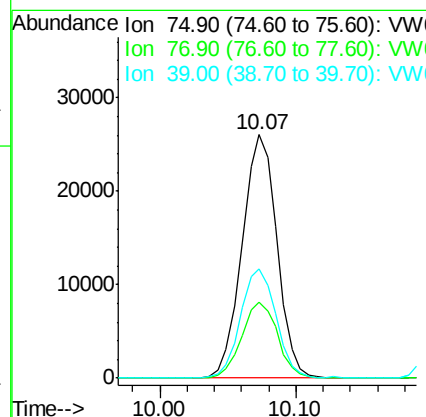
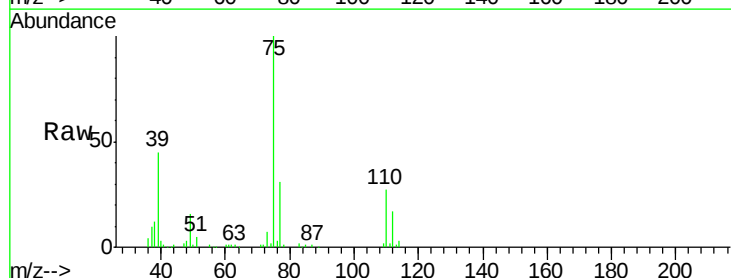
Manual Integrations
 APPROVED

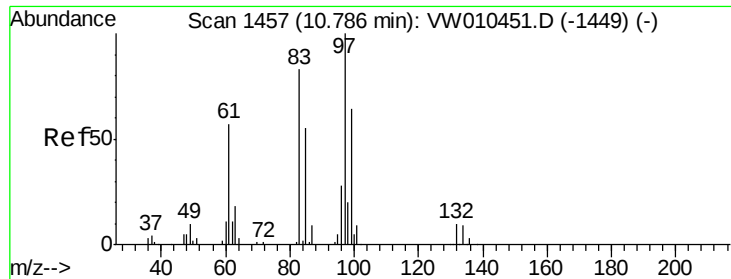
MMDadoda
 6/1/2019 4:27:15 AM



#54
 cis-1,3-Dichloropropene
 Concen: 20.190 ug/l
 RT: 10.07 min Scan# 1340
 Delta R.T. -0.00 min
 Lab File: VW010609.D
 Acq: 30 May 2019 12:23

Tgt Ion: 75 Resp: 46730
 Ion Ratio Lower Upper
 75 100
 77 31.3 25.7 38.5
 39 44.8 36.2 54.4





#55

1,1,2-Trichloroethane

Concen: 22.118 ug/l

RT: 10.79 min Scan# 1457

Delta R.T. -0.00 min

Lab File: VW010609.D

Acq: 30 May 2019 12:23

Instrument :

MSVOA_W

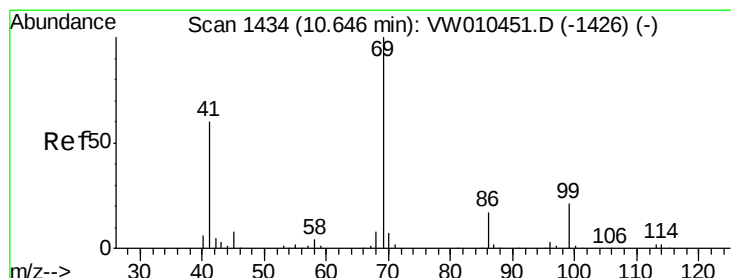
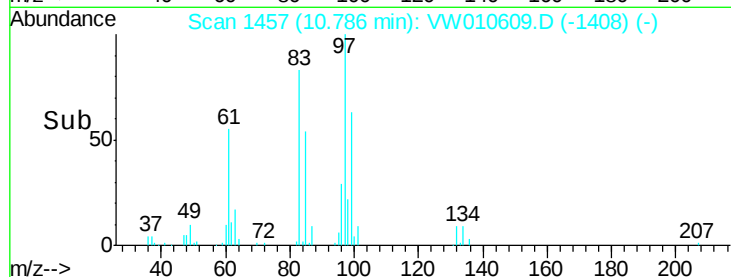
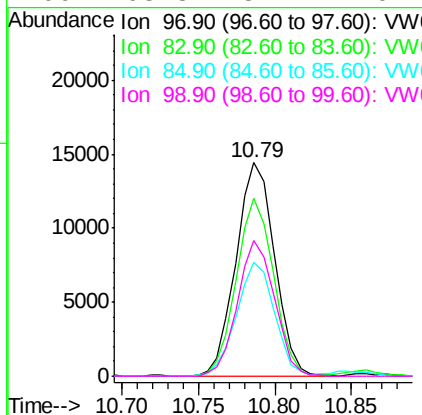
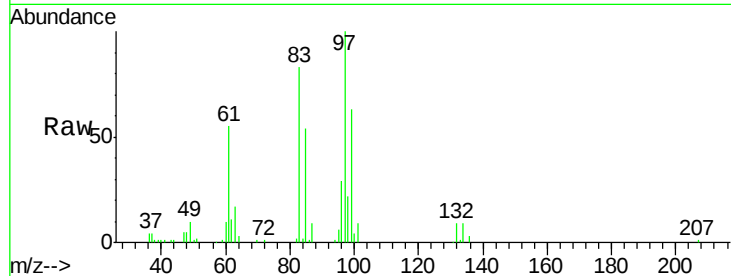
ClientSampleId :

VW0530SBSD01

Tot Ion:	97	Resp:	25327
Ion	Ratio	Lower	Upper
97	100		
83	83.3	66.1	99.1
85	53.5	44.2	66.4
99	63.3	51.1	76.7

Manual Integrations
APPROVED

MMDadoda
6/1/2019 4:27:15 AM



#56

Ethyl methacrylate

Concen: 19.001 ug/l

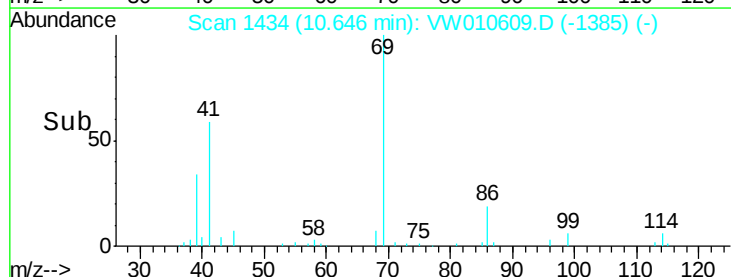
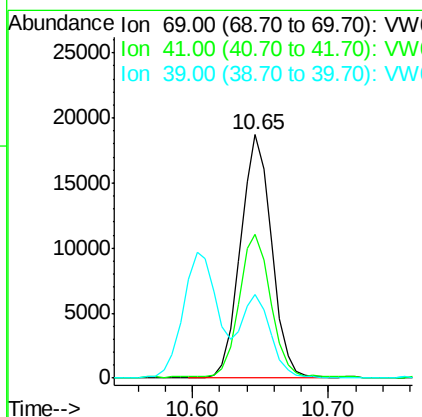
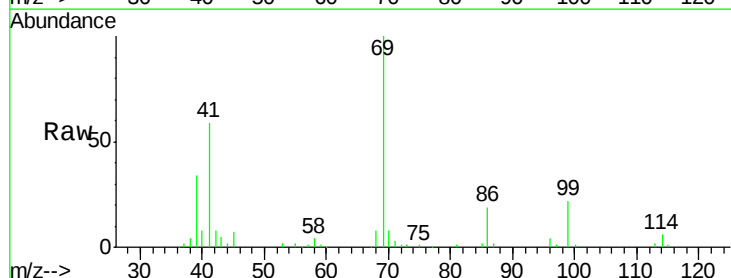
RT: 10.65 min Scan# 1434

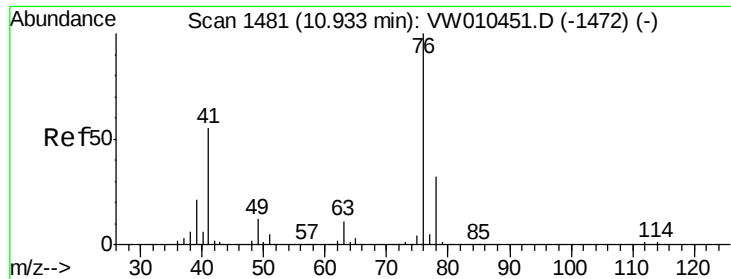
Delta R.T. -0.00 min

Lab File: VW010609.D

Acq: 30 May 2019 12:23

Tgt Ion:	69	Resp:	30007
Ion	Ratio	Lower	Upper
69	100		
41	59.5	47.7	71.5
39	32.5	25.3	37.9





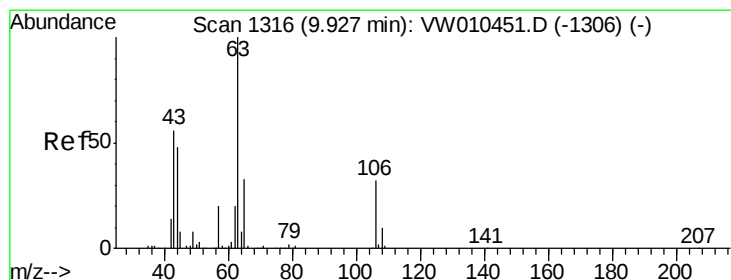
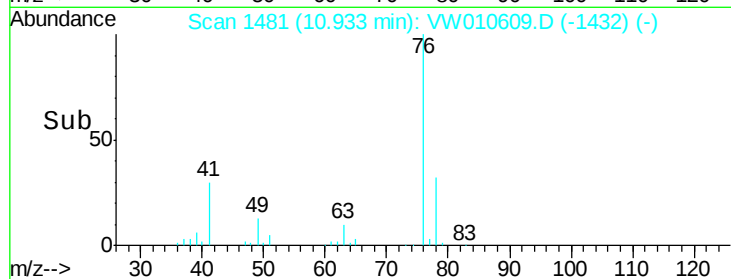
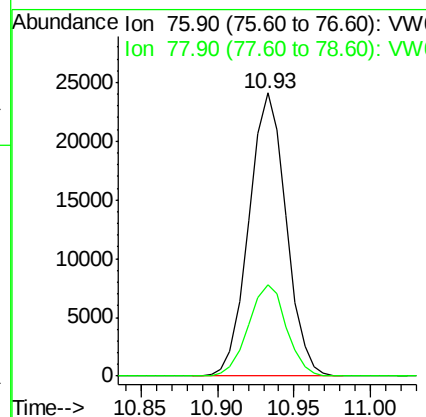
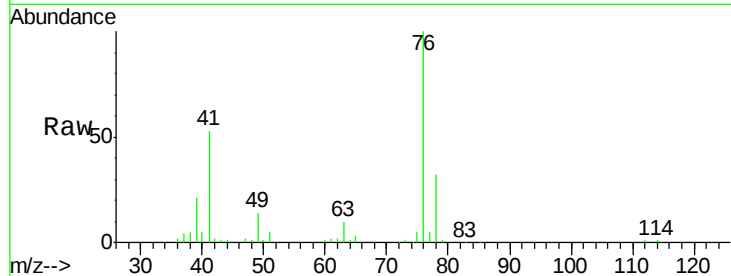
#57
 1,3-Dichloropropane
 Concen: 21.320 ug/l
 RT: 10.93 min Scan# 1481
 Delta R.T. -0.00 min
 Lab File: VW010609.D
 Acq: 30 May 2019 12:23

Instrument :
 MSVOA_W
 ClientSampleId :
 VW0530SBS01

Tot Ion	Ratio	Lower	Upper
76	100		
78	32.8	26.2	39.2

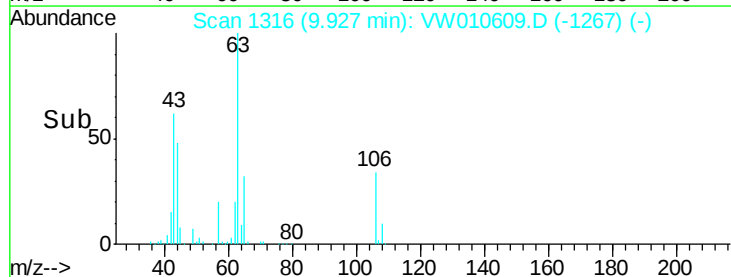
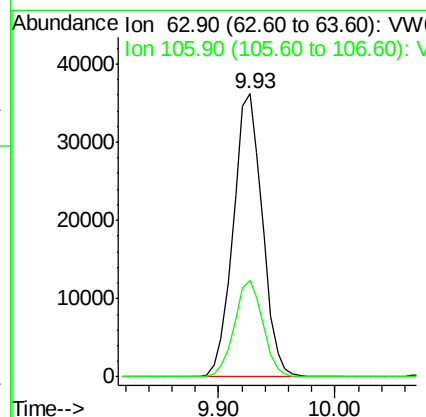
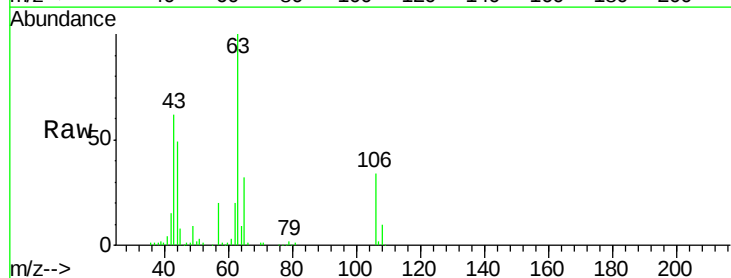
Manual Integrations
 APPROVED

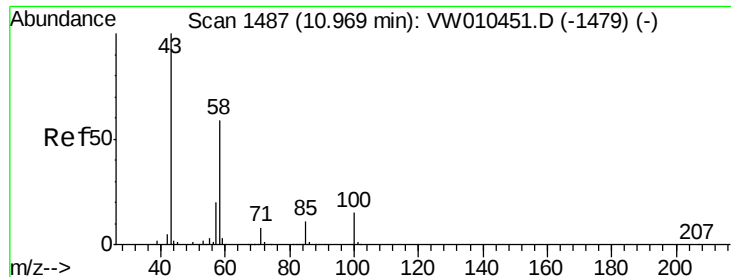
MMDadoda
 6/1/2019 4:27:15 AM



#58
 2-Chloroethyl Vinyl ether
 Concen: 90.044 ug/l
 RT: 9.93 min Scan# 1316
 Delta R.T. -0.00 min
 Lab File: VW010609.D
 Acq: 30 May 2019 12:23

Tgt Ion	Ratio	Lower	Upper
63	100		
106	33.3	25.8	38.6





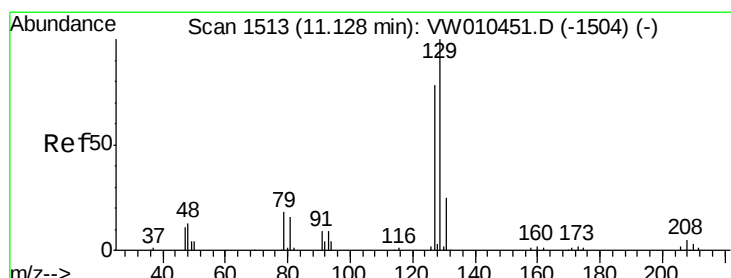
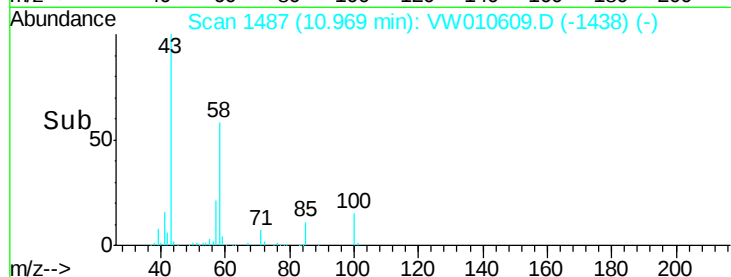
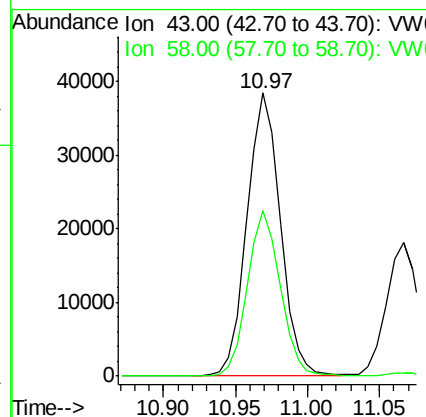
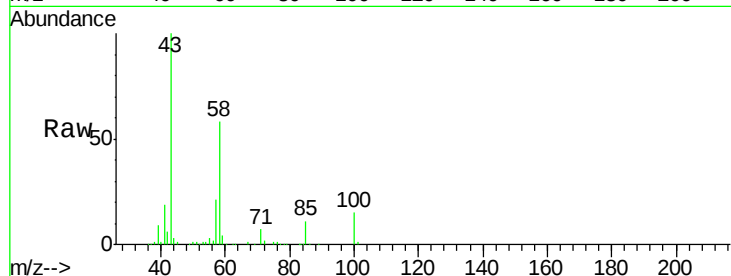
#59
2-Hexanone
Concen: 97.509 ug/l
RT: 10.97 min Scan# 1487
Delta R.T. -0.00 min
Lab File: VW010609.D
Acq: 30 May 2019 12:23

Instrument :
MSVOA_W
ClientSampleId :
VW0530SBS01

Tot Ion: 43 Resp: 61764
Ion Ratio Lower Upper
43 100
58 57.6 28.9 86.8

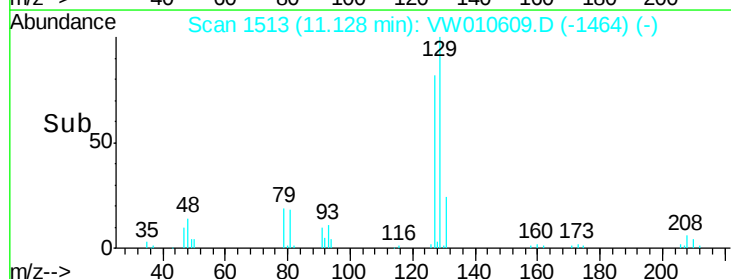
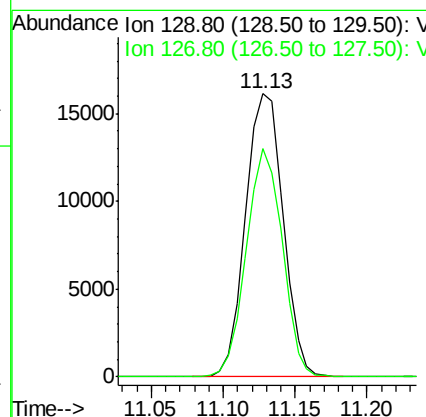
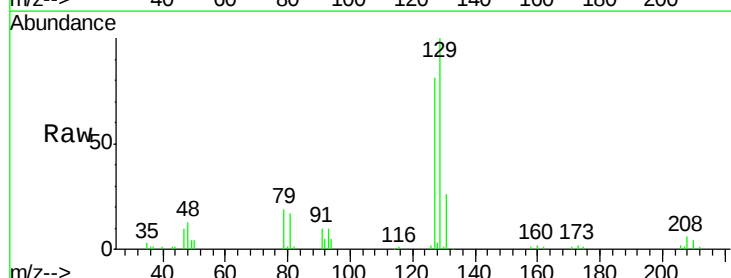
Manual Integrations
APPROVED

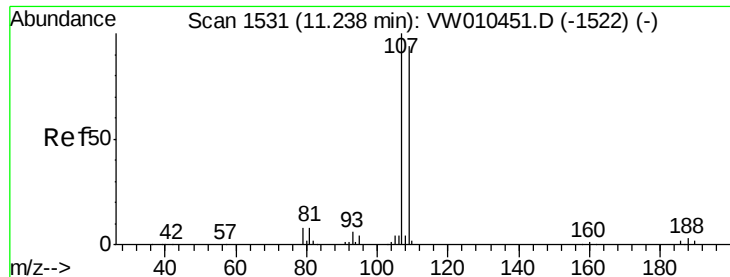
MMDadoda
6/1/2019 4:27:15 AM



#60
Dibromochloromethane
Concen: 20.137 ug/l
RT: 11.13 min Scan# 1513
Delta R.T. -0.00 min
Lab File: VW010609.D
Acq: 30 May 2019 12:23

Tgt Ion: 129 Resp: 29183
Ion Ratio Lower Upper
129 100
127 77.4 38.9 116.7





#61

1,2-Dibromoethane

Concen: 20.970 ug/l

RT: 11.24 min Scan# 1531

Delta R.T. -0.00 min

Lab File: VW010609.D

Acq: 30 May 2019 12:23

Instrument :

MSVOA_W

ClientSampleId :

VW0530SBS01

Tot Ion: 107 Resp: 24324

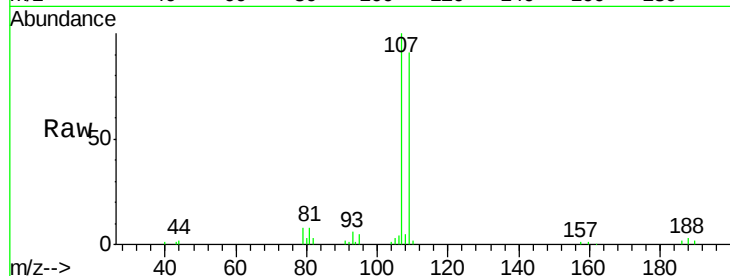
Ion Ratio Lower Upper

107 100

109 96.4 75.0 112.4

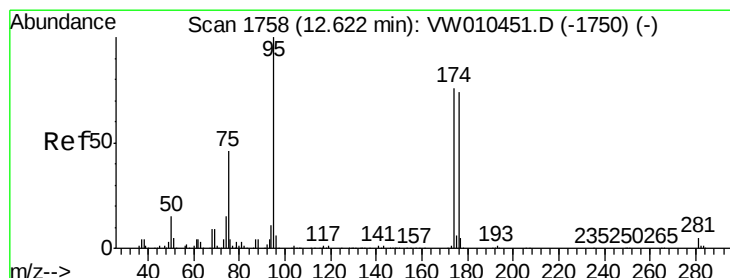
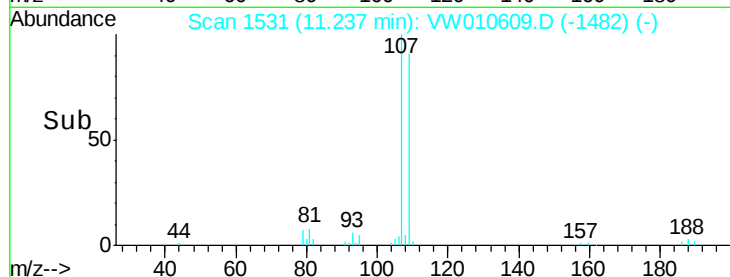
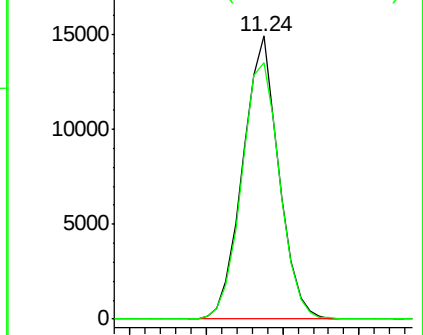
Manual Integrations
APPROVED

MMDadoda
6/1/2019 4:27:15 AM



Abundance Ion 106.90 (106.60 to 107.60): V

Ion 108.80 (108.50 to 109.50): V



#62

4-Bromofluorobenzene

Concen: 50.477 ug/l

RT: 12.62 min Scan# 1758

Delta R.T. -0.00 min

Lab File: VW010609.D

Acq: 30 May 2019 12:23

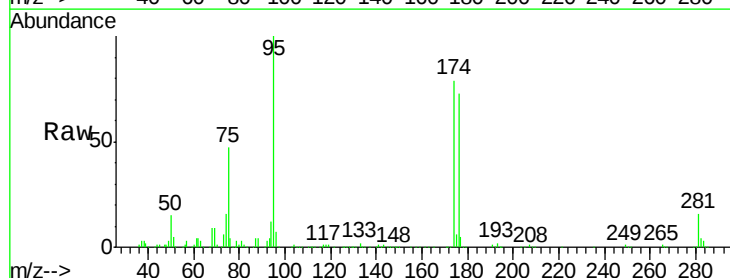
Tgt Ion: 95 Resp: 103195

Ion Ratio Lower Upper

95 100

174 75.1 0.0 148.6

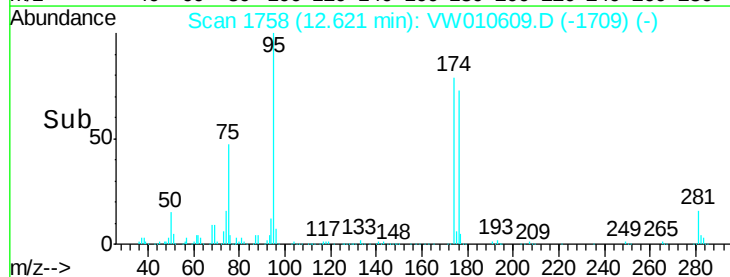
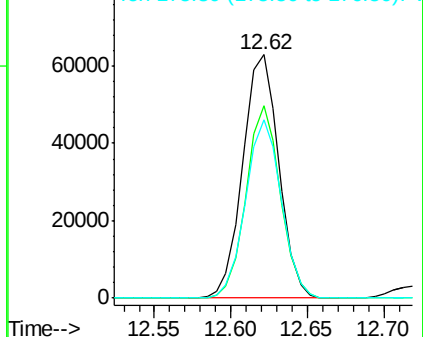
176 72.2 0.0 144.2

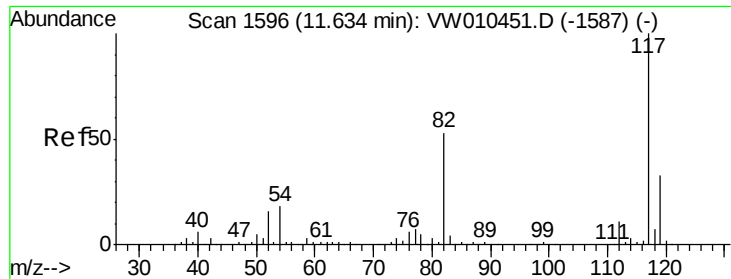


Abundance Ion 94.90 (94.60 to 95.60): VW

Ion 173.80 (173.50 to 174.50): V

Ion 175.80 (175.50 to 176.50): V





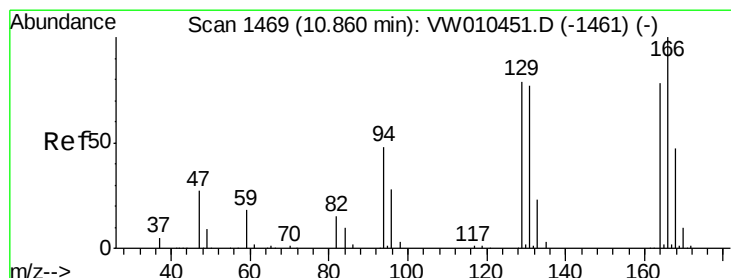
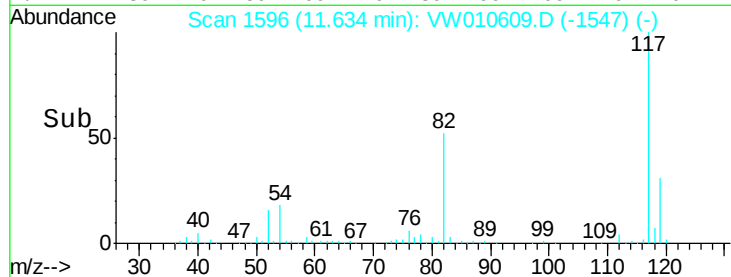
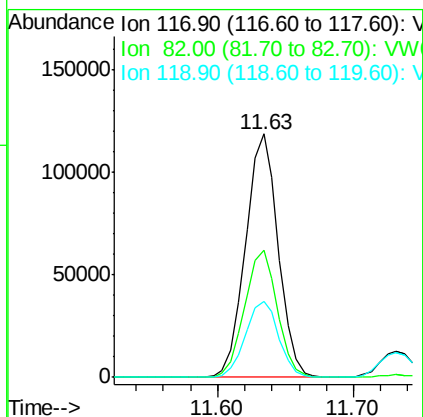
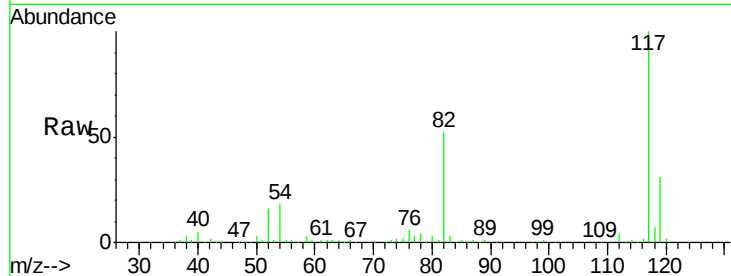
#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.63 min Scan# 1596
Delta R.T. -0.00 min
Lab File: VW010609.D
Acq: 30 May 2019 12:23

Instrument :
MSVOA_W
ClientSampleId :
VW0530SBS01

Tot Ion	Ratio	Lower	Upper
117	100		
82	52.0	42.8	64.2
119	31.3	26.3	39.5

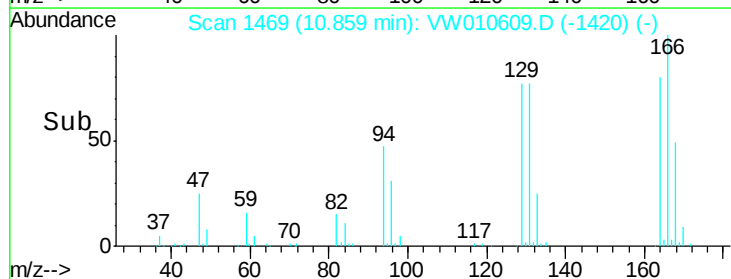
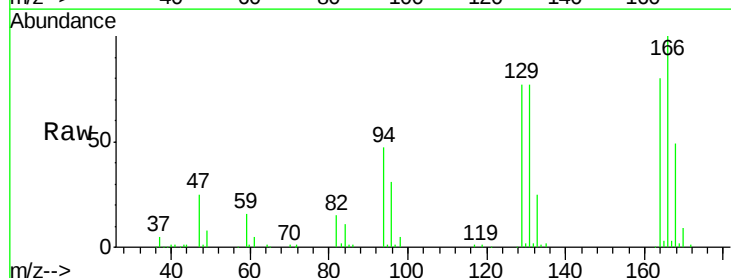
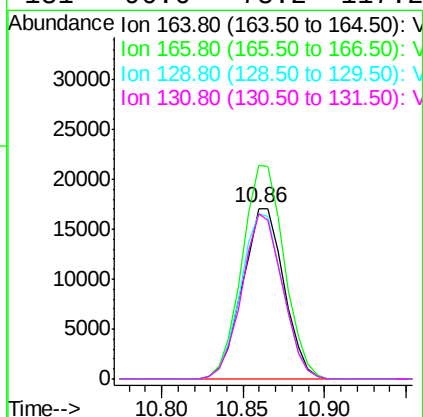
Manual Integrations
APPROVED

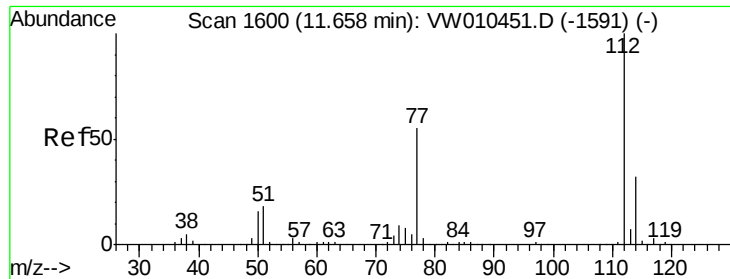
MMDadoda
6/1/2019 4:27:15 AM



#64
Tetrachloroethene
Concen: 21.879 ug/l
RT: 10.86 min Scan# 1469
Delta R.T. -0.00 min
Lab File: VW010609.D
Acq: 30 May 2019 12:23

Tgt Ion	Ratio	Lower	Upper
164	100		
166	125.2	101.9	152.9
129	96.7	80.6	121.0
131	96.6	78.2	117.2





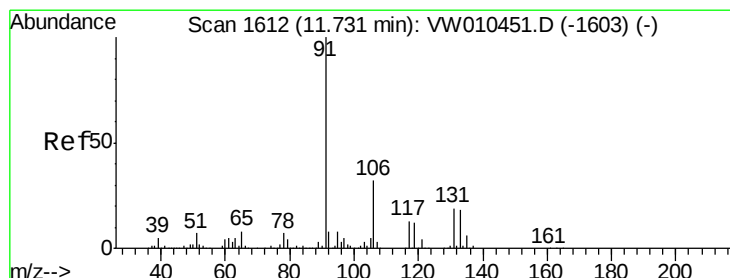
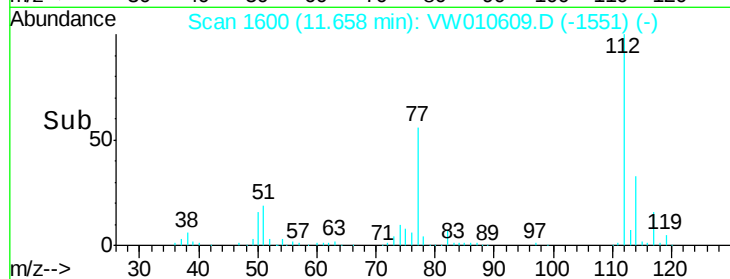
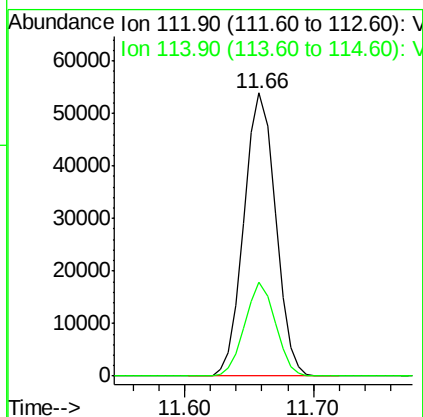
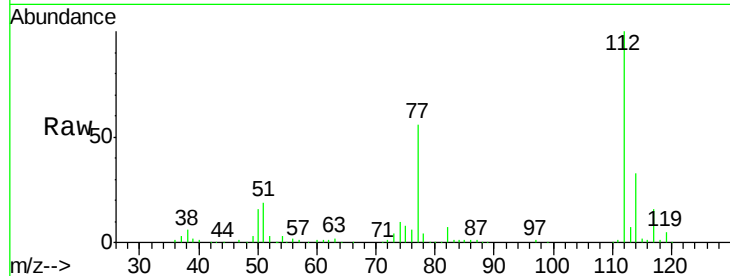
#65
Chlorobenzene
Concen: 21.634 ug/l
RT: 11.66 min Scan# 1600
Delta R.T. -0.00 min
Lab File: VW010609.D
Acq: 30 May 2019 12:23

Instrument :
MSVOA_W
ClientSampleId :
VW0530SBS01

Tot Ion:112 Resp: 91573
Ion Ratio Lower Upper
112 100
114 33.1 25.3 37.9

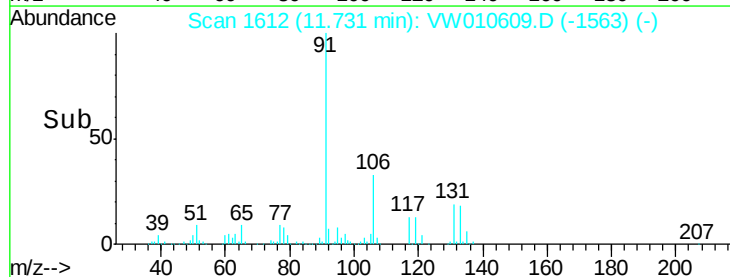
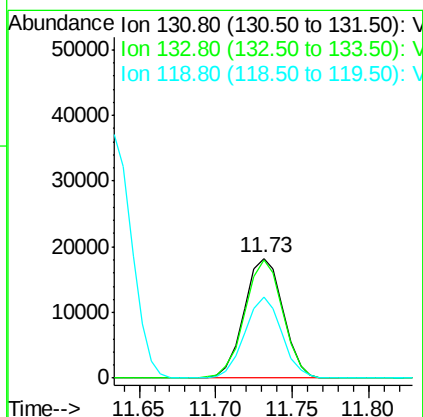
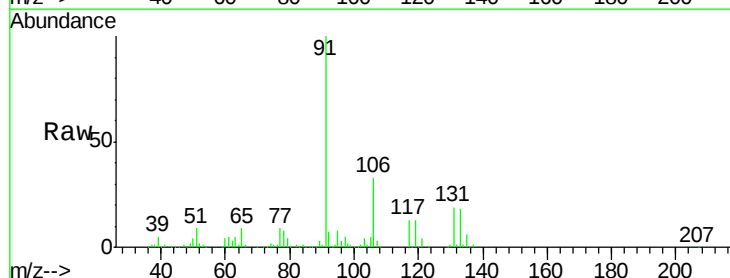
Manual Integrations
APPROVED

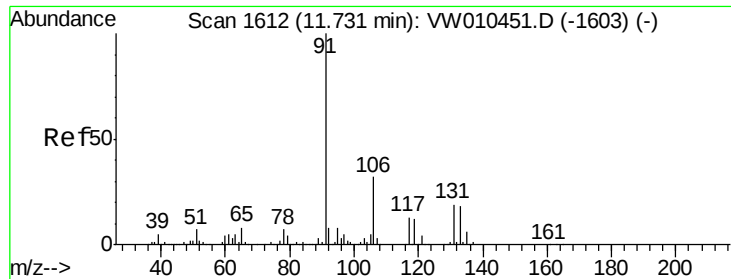
MMDadoda
6/1/2019 4:27:15 AM



#66
1,1,1,2-Tetrachloroethane
Concen: 21.256 ug/l
RT: 11.73 min Scan# 1612
Delta R.T. -0.00 min
Lab File: VW010609.D
Acq: 30 May 2019 12:23

Tgt Ion:131 Resp: 32230
Ion Ratio Lower Upper
131 100
133 96.5 47.3 141.9
119 64.6 32.1 96.5





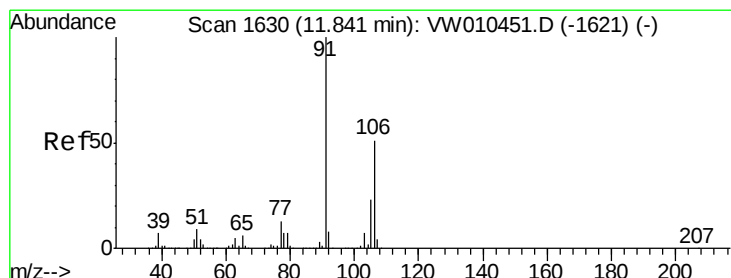
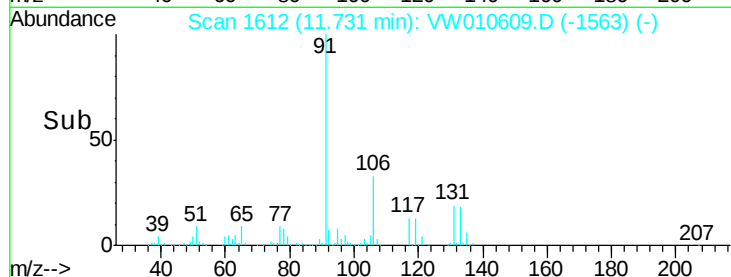
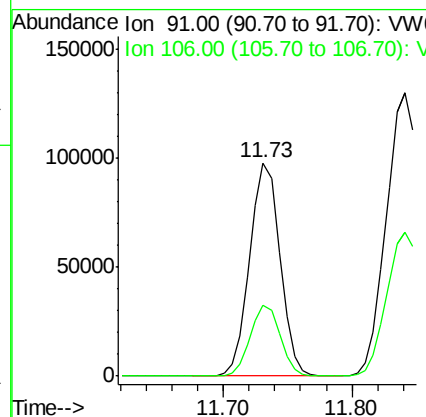
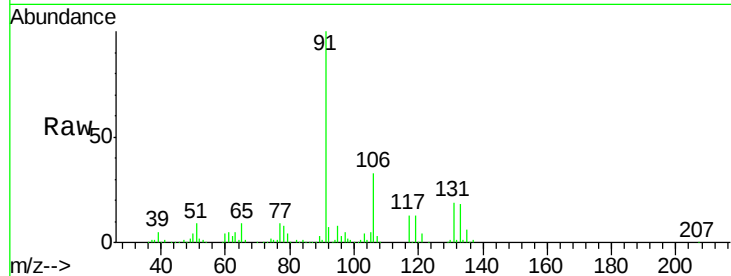
#67
Ethyl Benzene
Concen: 21.237 ug/l
RT: 11.73 min Scan# 1612
Delta R.T. -0.00 min
Lab File: VW010609.D
Acq: 30 May 2019 12:23

Instrument :
MSVOA_W
ClientSampleId :
VW0530SBS01

Tot Ion: 91 Resp: 158704
Ion Ratio Lower Upper
91 100
106 33.5 25.9 38.9

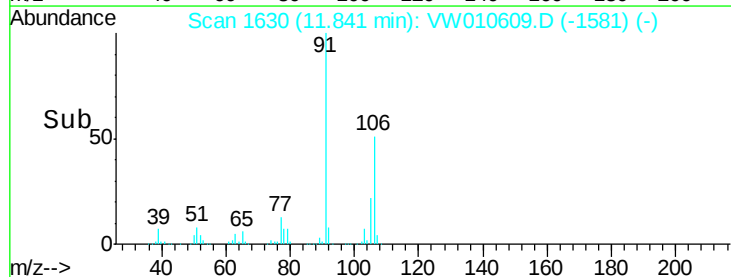
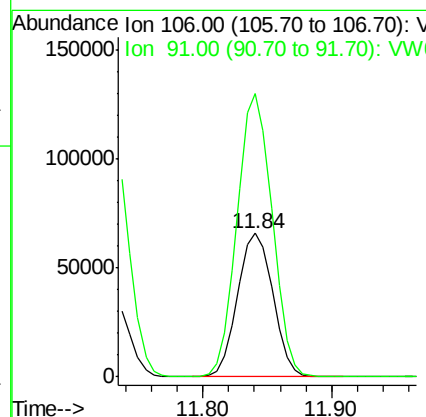
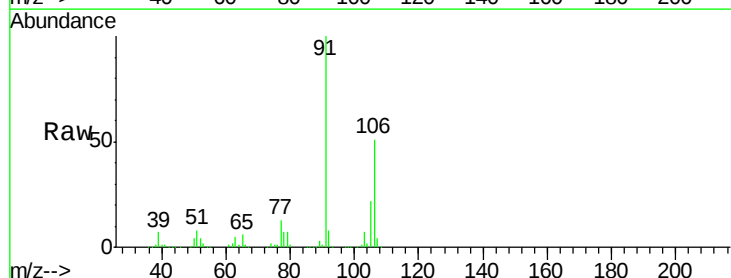
Manual Integrations
APPROVED

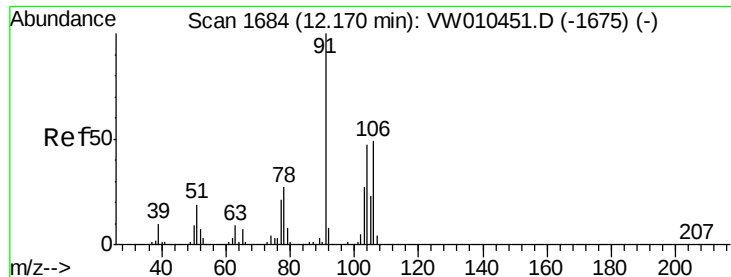
MMDadoda
6/1/2019 4:27:15 AM



#68
m/p-Xylenes
Concen: 43.029 ug/l
RT: 11.84 min Scan# 1630
Delta R.T. -0.00 min
Lab File: VW010609.D
Acq: 30 May 2019 12:23

Tgt Ion: 106 Resp: 126126
Ion Ratio Lower Upper
106 100
91 195.3 156.0 234.0





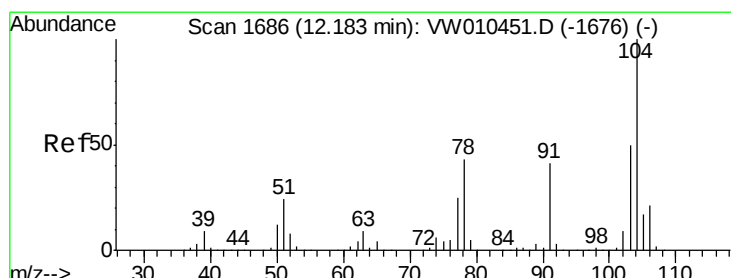
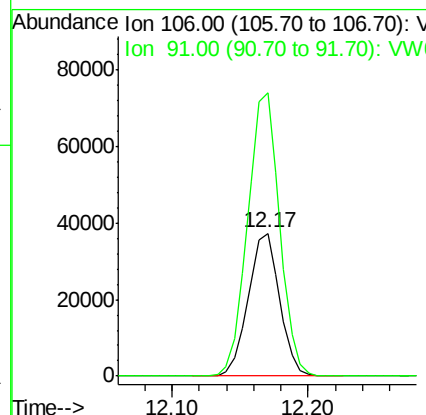
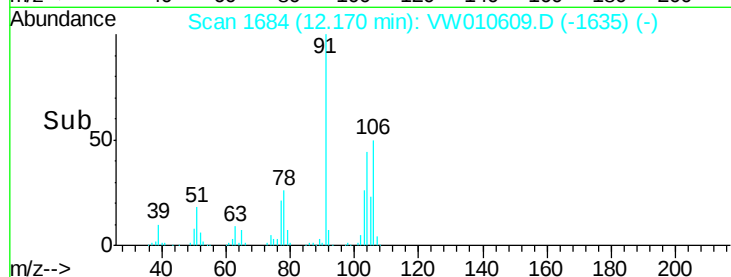
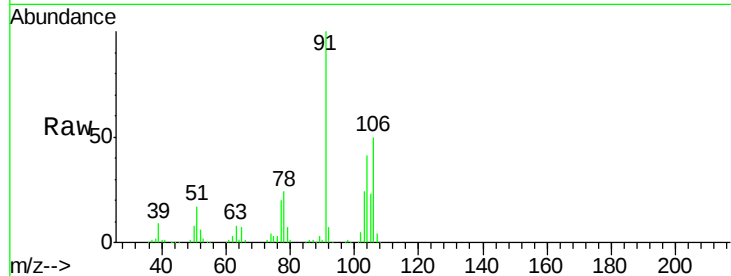
#69
o-Xylene
Concen: 21.701 ug/l
RT: 12.17 min Scan# 1684
Delta R.T. -0.00 min
Lab File: VW010609.D
Acq: 30 May 2019 12:23

Instrument :
MSVOA_W
ClientSampleId :
VW0530SBS01

Tot Ion:106 Resp: 60266
Ion Ratio Lower Upper
106 100
91 201.7 103.2 309.4

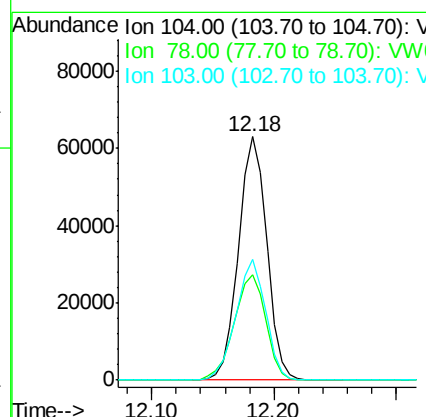
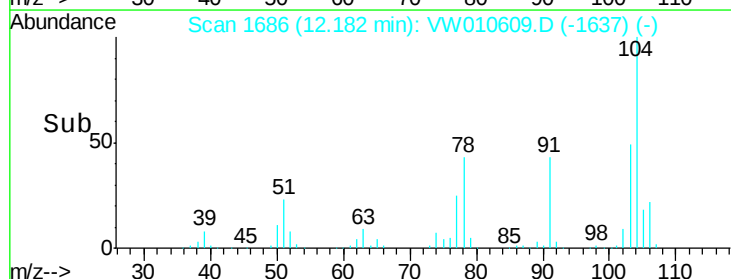
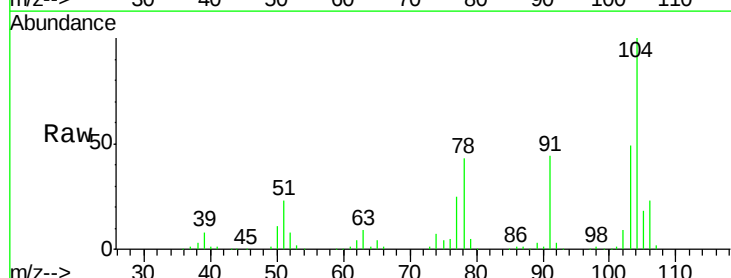
Manual Integrations
APPROVED

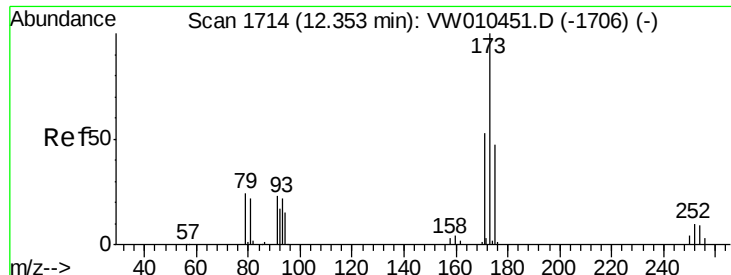
MMDadoda
6/1/2019 4:27:15 AM



#70
Styrene
Concen: 21.359 ug/l
RT: 12.18 min Scan# 1686
Delta R.T. -0.00 min
Lab File: VW010609.D
Acq: 30 May 2019 12:23

Tgt Ion:104 Resp: 100644
Ion Ratio Lower Upper
104 100
78 48.4 39.0 58.4
103 52.4 43.0 64.6





#71

Bromoform

Concen: 18.760 ug/l

RT: 12.35 min Scan# 1713

Delta R.T. -0.01 min

Lab File: VW010609.D

Acq: 30 May 2019 12:23

Instrument :

MSVOA_W

ClientSampleId :

VW0530SBSD01

Tot Ion:173 Resp: 15664

Ion Ratio Lower Upper

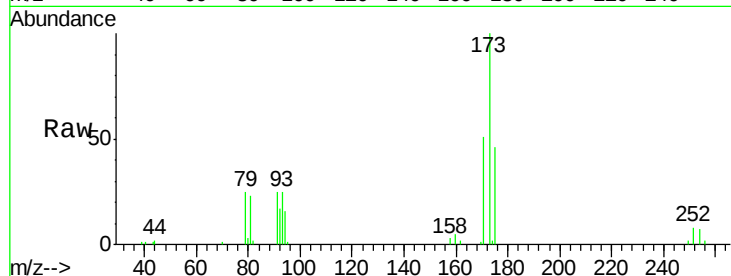
173 100

175 49.9 24.4 73.4

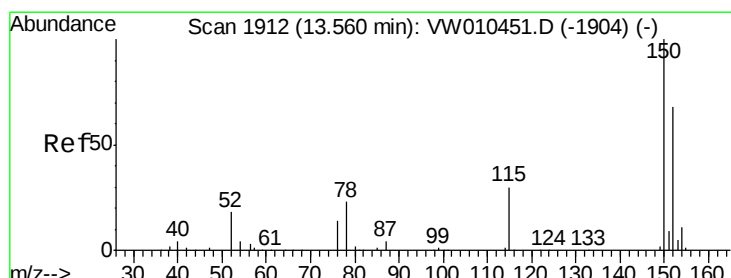
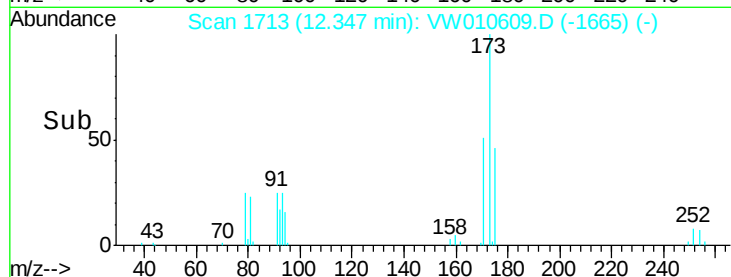
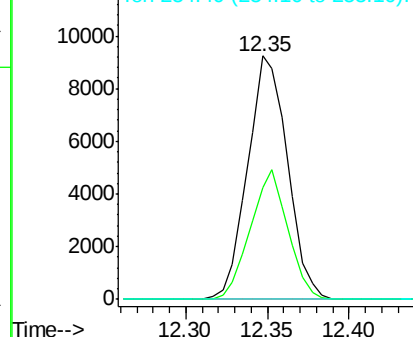
254 0.0 0.0 0.0

Manual Integrations
APPROVED

MMDadoda
6/1/2019 4:27:15 AM



Abundance Ion 172.70 (172.40 to 173.40): V
Ion 174.70 (174.40 to 175.40): V
Ion 254.40 (254.10 to 255.10): V



#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

RT: 13.56 min Scan# 1912

Delta R.T. -0.00 min

Lab File: VW010609.D

Acq: 30 May 2019 12:23

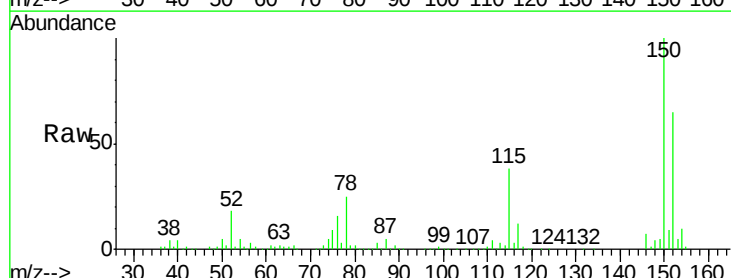
Tgt Ion:152 Resp: 98827

Ion Ratio Lower Upper

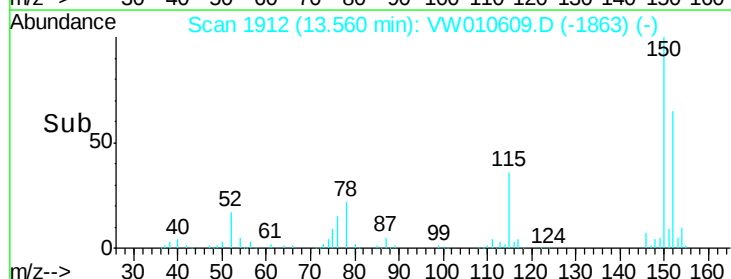
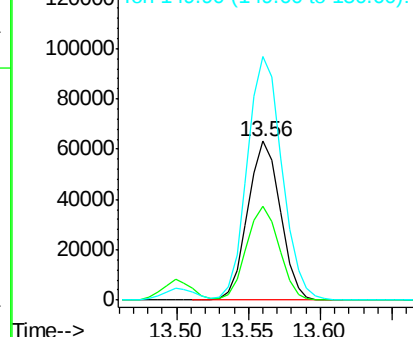
152 100

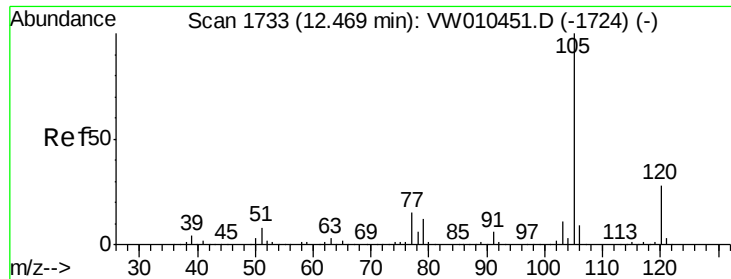
115 59.5 30.3 91.0

150 163.2 0.0 349.8



Abundance Ion 151.90 (151.60 to 152.60): V
Ion 114.90 (114.60 to 115.60): V
Ion 149.90 (149.60 to 150.60): V





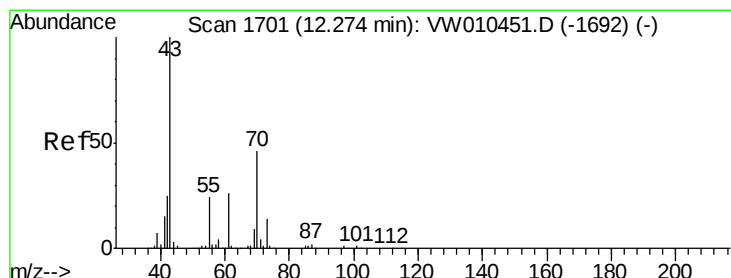
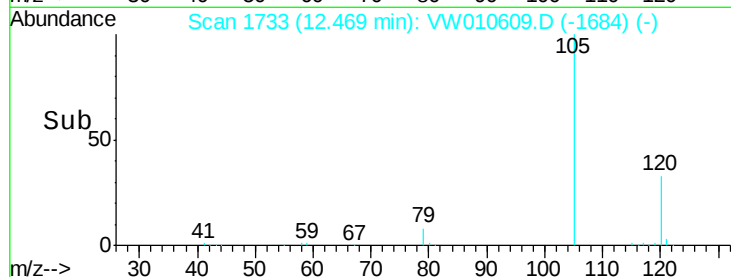
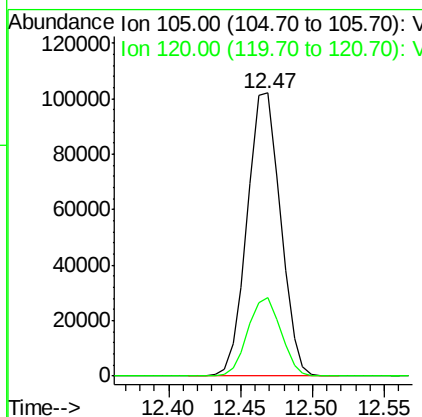
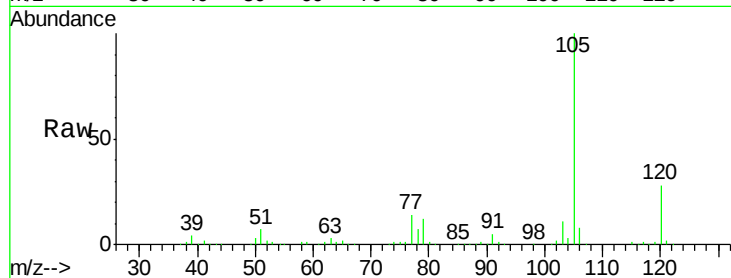
#73
Isopropylbenzene
Concen: 20.879 ug/l
RT: 12.47 min Scan# 1733
Delta R.T. -0.00 min
Lab File: VW010609.D
Acq: 30 May 2019 12:23

Instrument :
MSVOA_W
ClientSampleId :
VW0530SBS01

Tot Ion:105 Resp: 163742
Ion Ratio Lower Upper
105 100
120 27.5 13.9 41.7

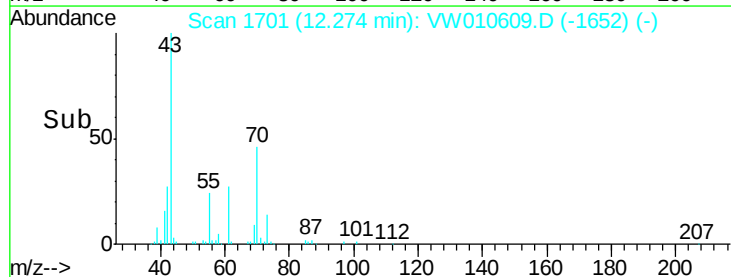
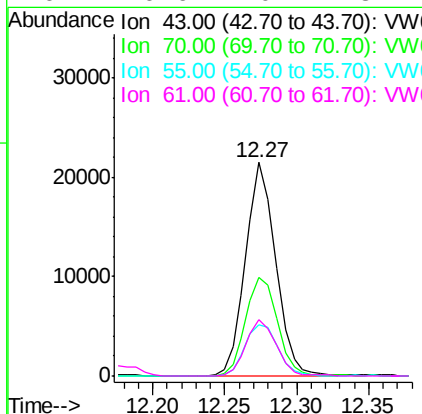
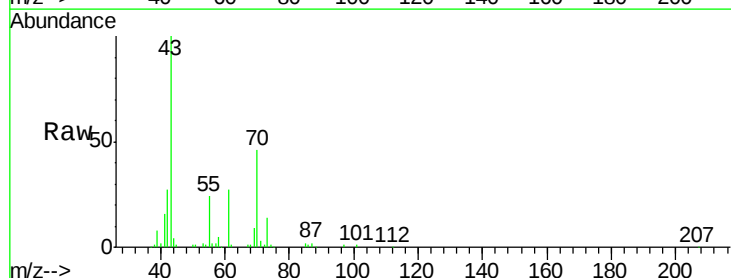
Manual Integrations
APPROVED

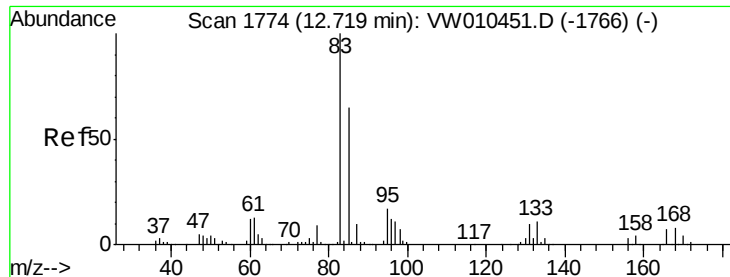
MMDadoda
6/1/2019 4:27:15 AM



#74
N-ethyl acetate
Concen: 17.410 ug/l
RT: 12.27 min Scan# 1701
Delta R.T. -0.00 min
Lab File: VW010609.D
Acq: 30 May 2019 12:23

Tgt Ion: 43 Resp: 31288
Ion Ratio Lower Upper
43 100
70 48.8 37.1 55.7
55 26.5 19.6 29.4
61 26.6 20.7 31.1





#75

1,1,2,2-Tetrachloroethane

Concen: 19.310 ug/l

RT: 12.71 min Scan# 1773

Delta R.T. -0.01 min

Lab File: VW010609.D

Acq: 30 May 2019 12:23

Instrument :

MSVOA_W

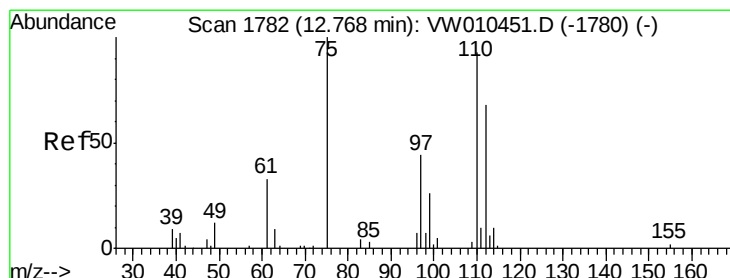
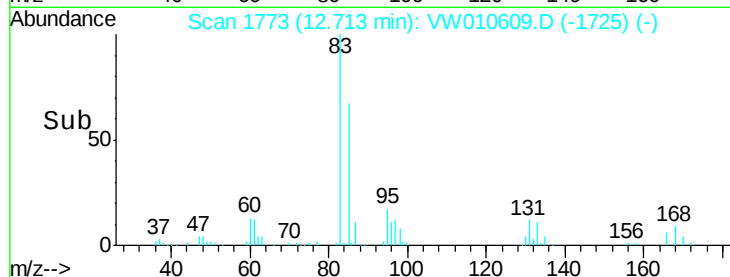
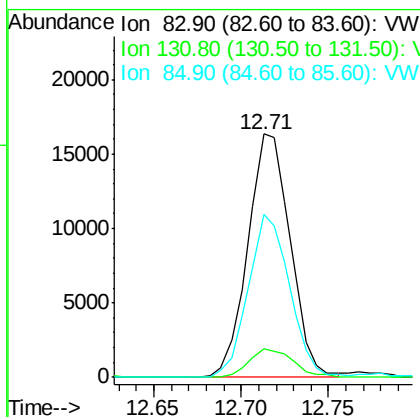
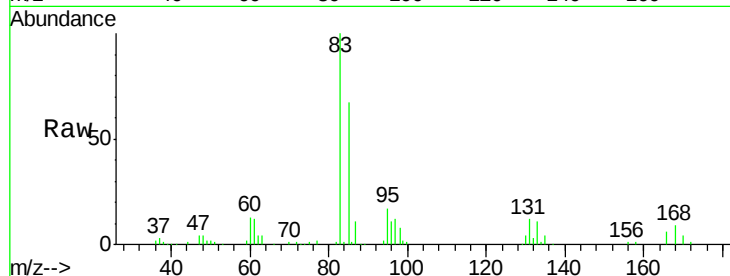
ClientSampleId :

VW0530SBSD01

Tot Ion:	83	Resp:	27544
Ion	Ratio	Lower	Upper
83	100		
131	12.4	5.6	16.8
85	65.4	32.4	97.0

Manual Integrations
APPROVED

MMDadoda
6/1/2019 4:27:15 AM



#76

1,2,3-Trichloropropane

Concen: 15.657 ug/l m

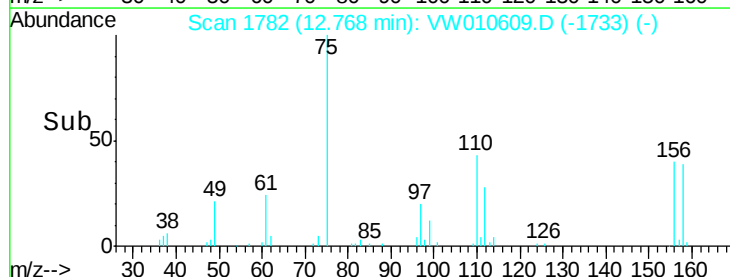
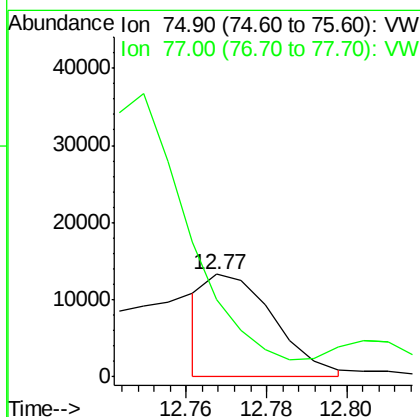
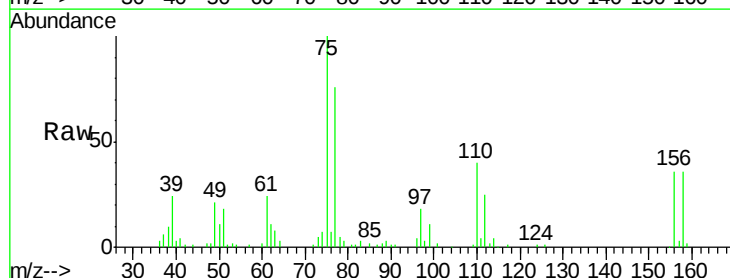
RT: 12.77 min Scan# 1782

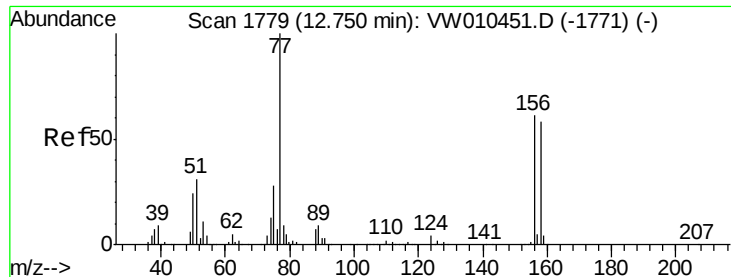
Delta R.T. -0.00 min

Lab File: VW010609.D

Acq: 30 May 2019 12:23

Tgt Ion:	75	Resp:	15706
Ion	Ratio	Lower	Upper
75	100		
77	427.6	170.0	510.1





#77

Bromobenzene

Concen: 21.743 ug/l

RT: 12.75 min Scan# 1779

Delta R.T. -0.00 min

Lab File: VW010609.D

Acq: 30 May 2019 12:23

Instrument :

MSVOA_W

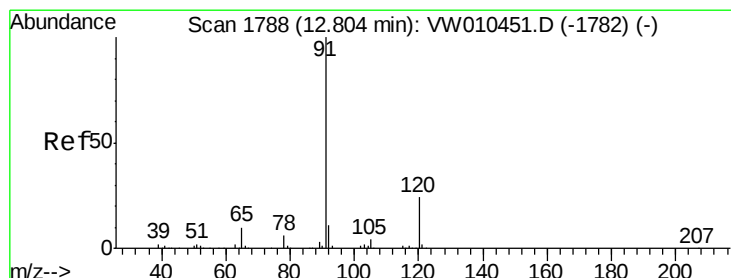
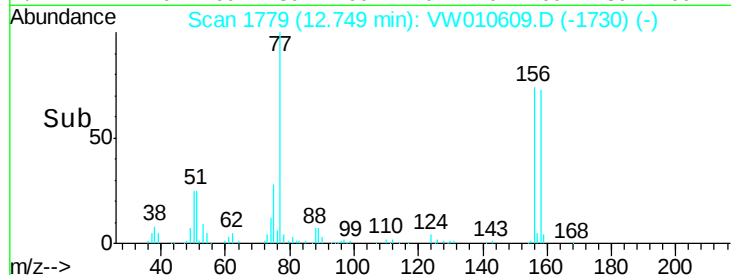
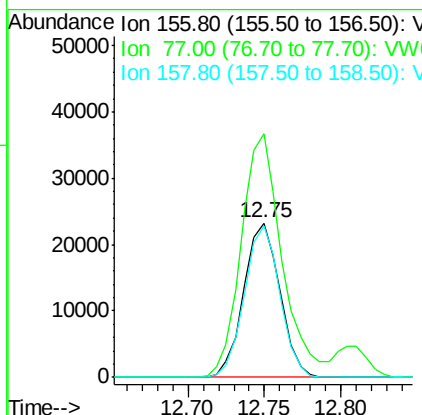
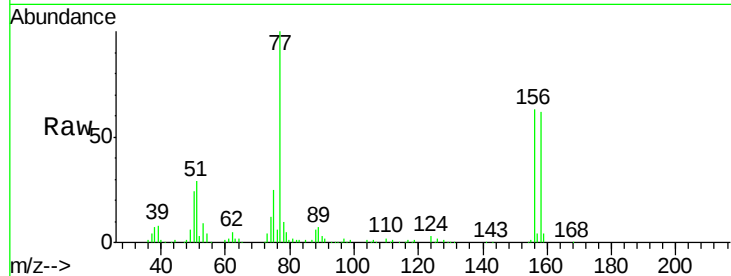
ClientSampleId :

VW0530SBSD01

Tot Ion:	156	Resp:	38158
Ion Ratio	Lower	Upper	
156	100		
77	176.0	92.4	277.2
158	96.5	48.3	144.8

Manual Integrations
APPROVED

MMDadoda
6/1/2019 4:27:15 AM



#78

n-propylbenzene

Concen: 20.411 ug/l

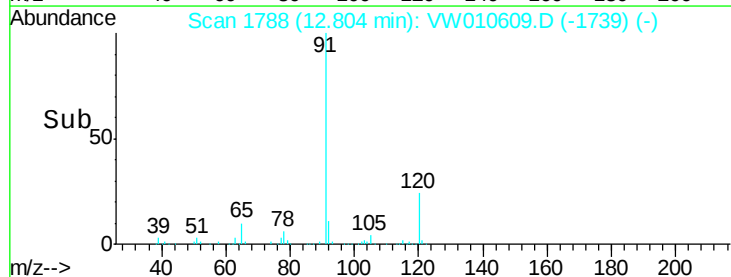
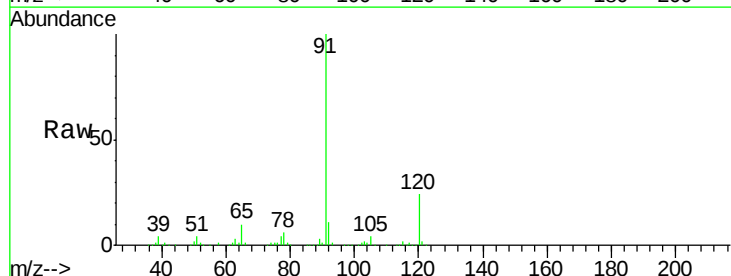
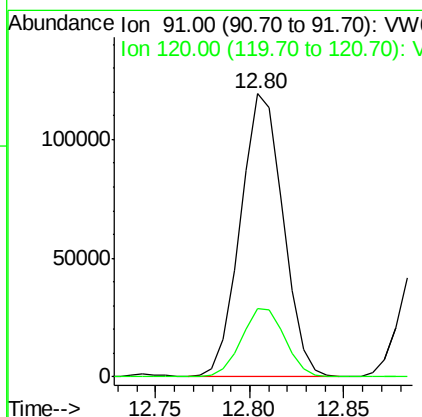
RT: 12.80 min Scan# 1788

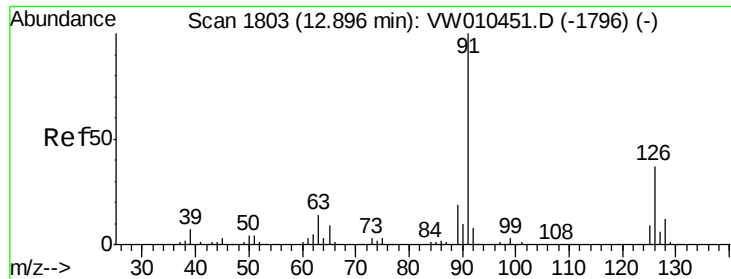
Delta R.T. -0.00 min

Lab File: VW010609.D

Acq: 30 May 2019 12:23

Tgt Ion:	91	Resp:	186543
Ion Ratio	Lower	Upper	
91	100		
120	24.6	12.3	36.8





#79

2-Chlorotoluene

Concen: 20.499 ug/l

RT: 12.90 min Scan# 1803

Delta R.T. -0.00 min

Lab File: VW010609.D

Acq: 30 May 2019 12:23

Instrument :

MSVOA_W

ClientSampleId :

VW0530SBSD01

Tot Ion: 91 Resp: 108642

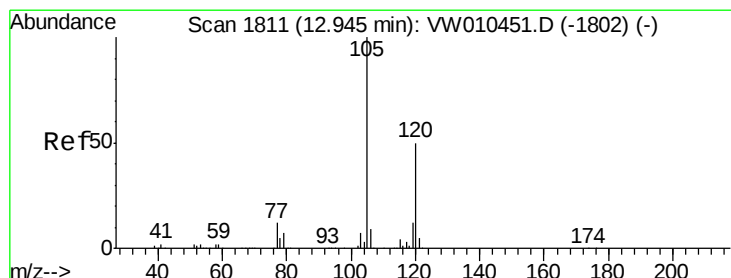
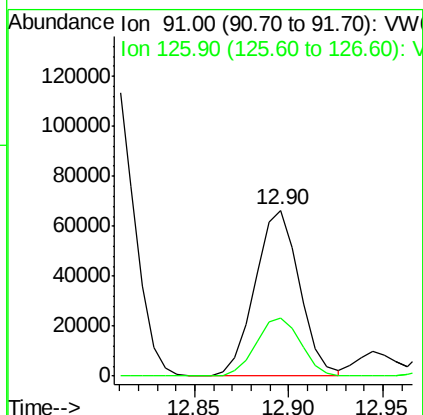
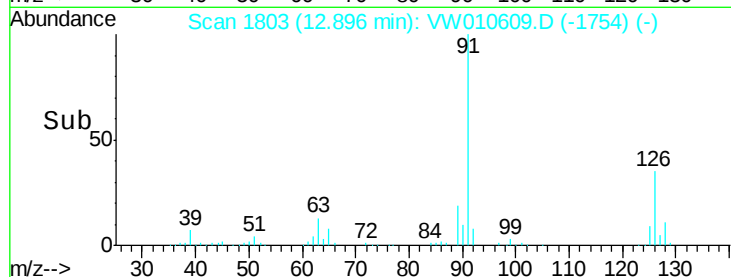
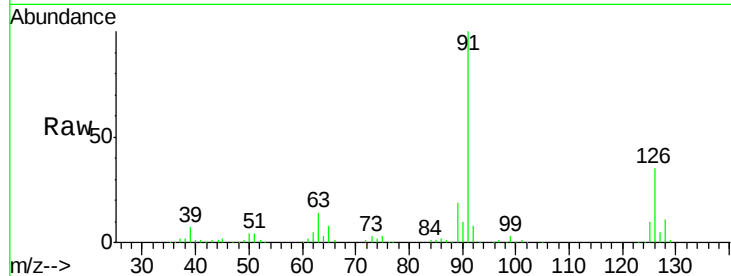
Ion Ratio Lower Upper

91 100

126 35.2 17.4 52.3

Manual Integrations
APPROVED

MMDadoda
6/1/2019 4:27:15 AM



#80

1,3,5-Trimethylbenzene

Concen: 20.666 ug/l

RT: 12.94 min Scan# 1811

Delta R.T. -0.00 min

Lab File: VW010609.D

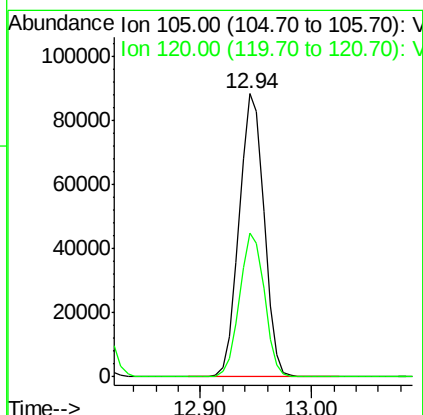
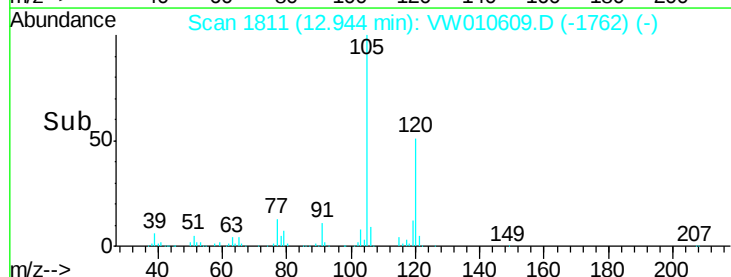
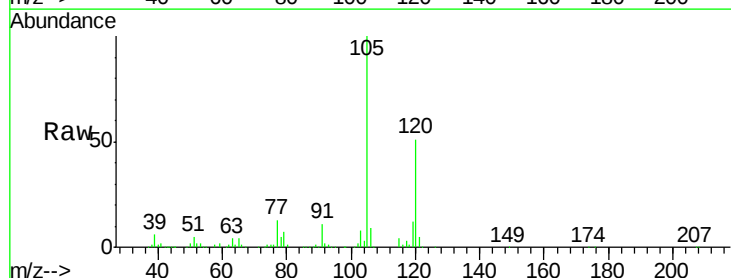
Acq: 30 May 2019 12:23

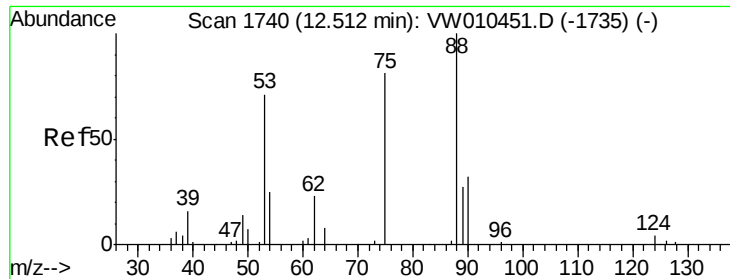
Tgt Ion:105 Resp: 137264

Ion Ratio Lower Upper

105 100

120 50.3 25.2 75.6





#81

trans-1,4-Dichloro-2-butene

Concen: 16.585 ug/l

RT: 12.51 min Scan# 1740

Delta R.T. -0.00 min

Lab File: VW010609.D

Acq: 30 May 2019 12:23

Instrument :

MSVOA_W

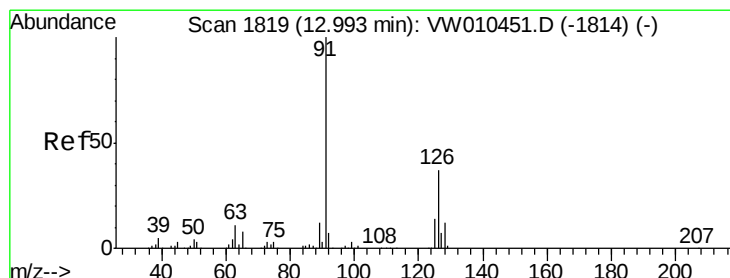
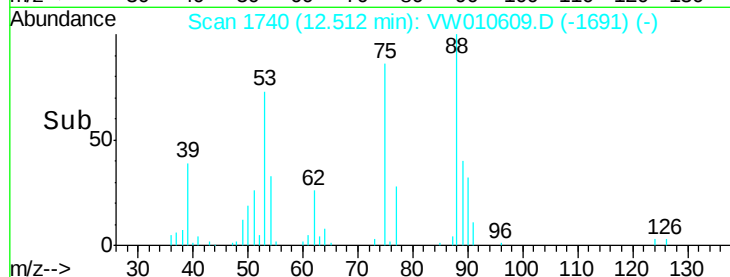
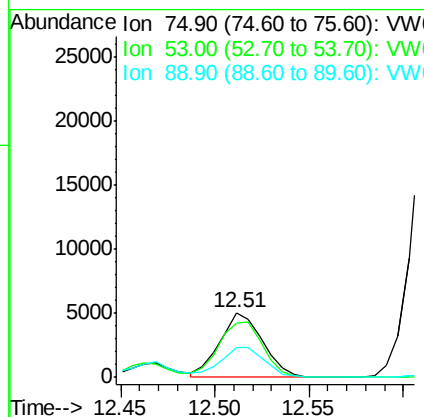
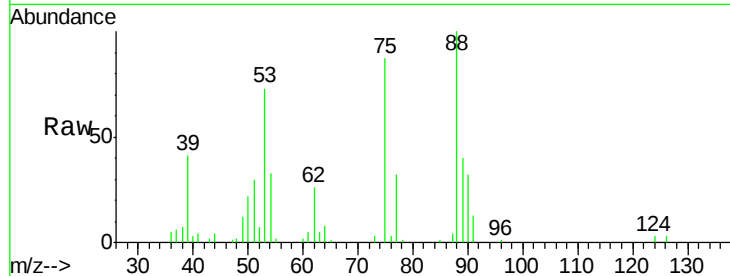
ClientSampleId :

VW0530SBS01

Tot Ion:	75	Resp:	7972
Ion	Ratio	Lower	Upper
75	100		
53	89.0	69.8	104.8
89	47.7	39.5	59.3

Manual Integrations
APPROVED

MMDadoda
6/1/2019 4:27:15 AM



#82

4-Chlorotoluene

Concen: 20.515 ug/l

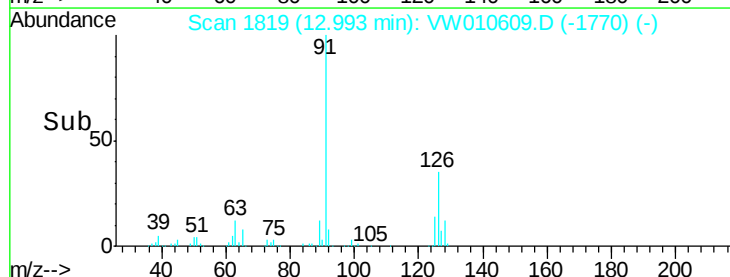
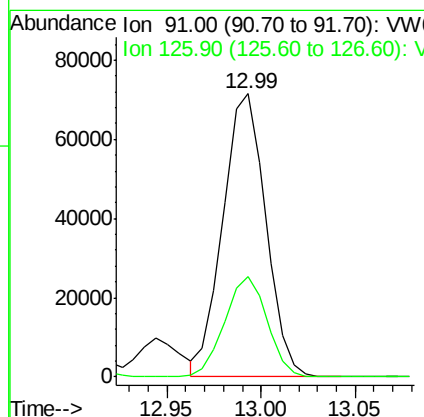
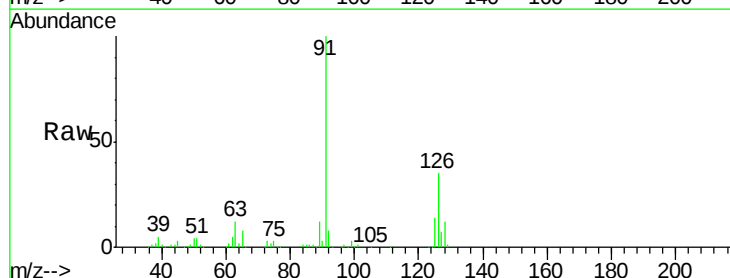
RT: 12.99 min Scan# 1819

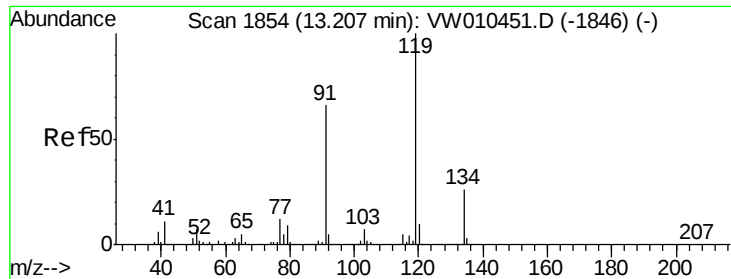
Delta R.T. -0.00 min

Lab File: VW010609.D

Acq: 30 May 2019 12:23

Tgt Ion:	91	Resp:	112856
Ion	Ratio	Lower	Upper
91	100		
126	35.2	17.5	52.6





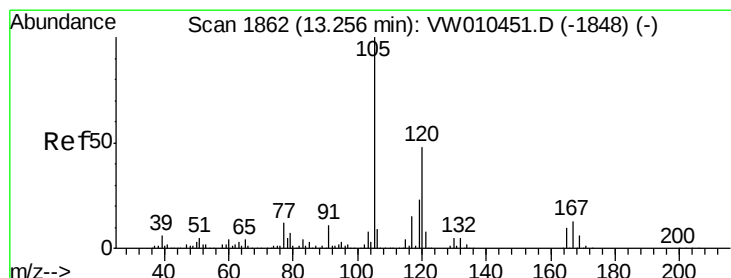
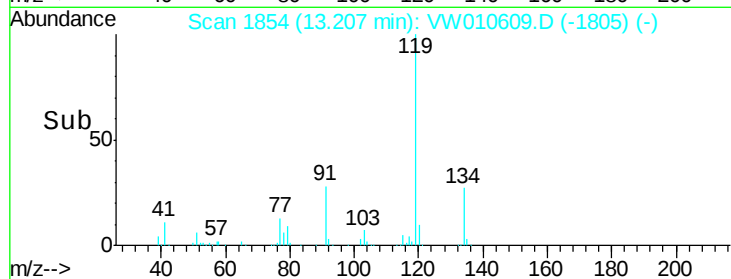
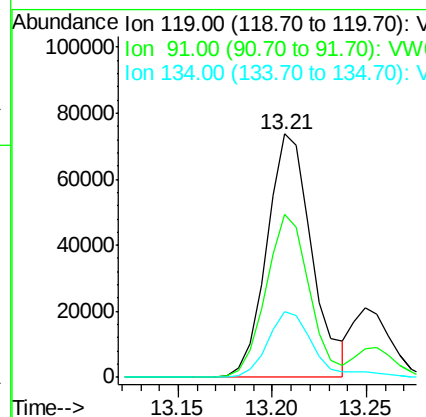
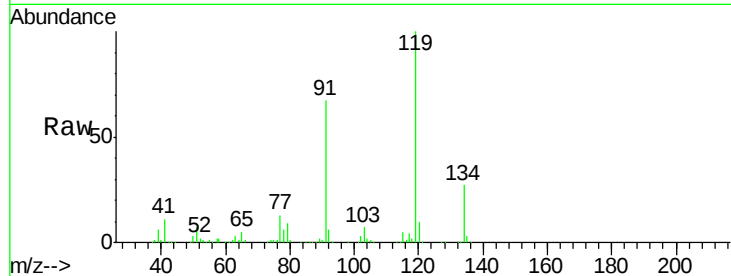
#83
 tert-Butylbenzene
 Concen: 21.057 ug/l
 RT: 13.21 min Scan# 1854
 Delta R.T. -0.00 min
 Lab File: VW010609.D
 Acq: 30 May 2019 12:23

Instrument :
 MSVOA_W
 ClientSampleId :
 VW0530SBS01

Tot Ion	Ratio	Resp	Lower	Upper
119	100	122168		
91	64.4	33.1	99.5	
134	28.0	13.9	41.6	

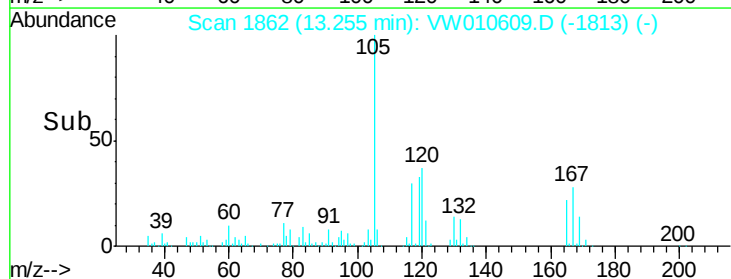
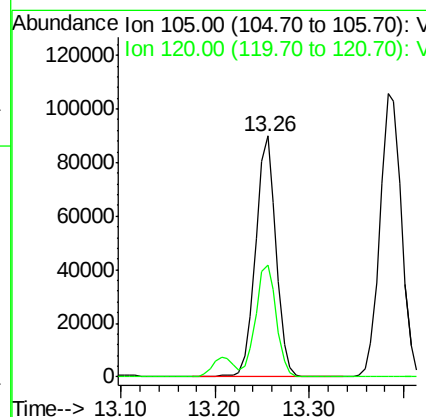
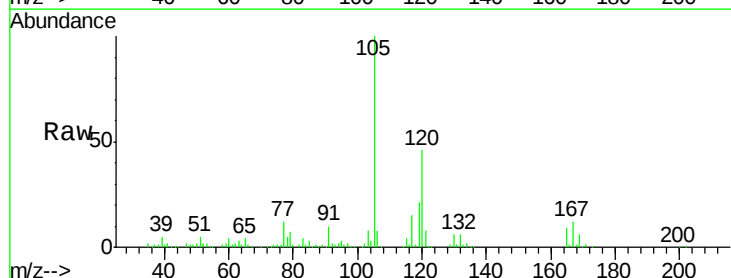
Manual Integrations
 APPROVED

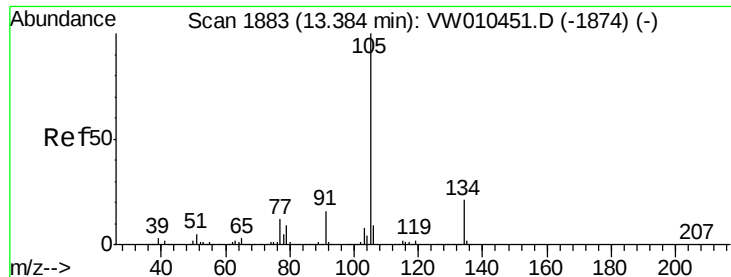
MMDadoda
 6/1/2019 4:27:15 AM



#84
 1,2,4-Trimethylbenzene
 Concen: 20.711 ug/l
 RT: 13.26 min Scan# 1862
 Delta R.T. -0.00 min
 Lab File: VW010609.D
 Acq: 30 May 2019 12:23

Tgt Ion	Ratio	Resp	Lower	Upper
105	100	137005		
120	47.3	23.4	70.2	





#85

sec-Butylbenzene

Concen: 20.432 ug/l

RT: 13.38 min Scan# 1883

Delta R.T. -0.00 min

Lab File: VW010609.D

Acq: 30 May 2019 12:23

Instrument :

MSVOA_W

ClientSampleId :

VW0530SBS01

Tot Ion:105 Resp: 165887

Ion Ratio Lower Upper

105 100

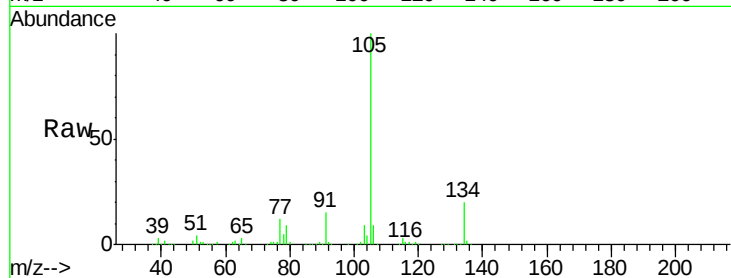
134 21.0 10.5 31.6

Manual Integrations

APPROVED

MMDadoda

6/1/2019 4:27:15 AM



Abundance Ion 105.00 (104.70 to 105.70): V

Ion 134.00 (133.70 to 134.70): V

120000

100000

80000

60000

40000

20000

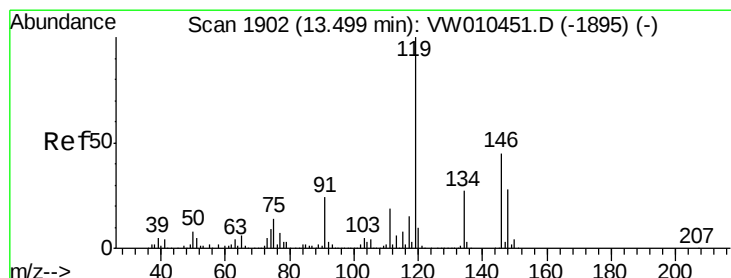
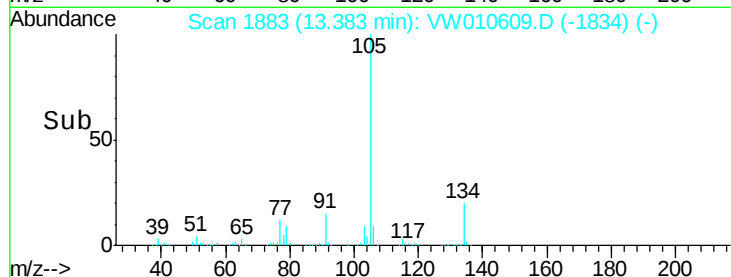
0

13.38

13.30

13.40

Time-->



#86

p-Isopropyltoluene

Concen: 20.842 ug/l

RT: 13.50 min Scan# 1902

Delta R.T. -0.00 min

Lab File: VW010609.D

Acq: 30 May 2019 12:23

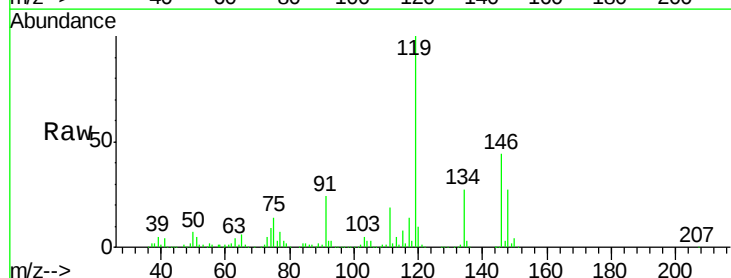
Tgt Ion:119 Resp: 153165

Ion Ratio Lower Upper

119 100

134 27.2 13.6 40.7

91 23.7 11.9 35.7



Abundance Ion 119.00 (118.70 to 119.70): V

Ion 134.00 (133.70 to 134.70): V

Ion 91.00 (90.70 to 91.70): V

100000

50000

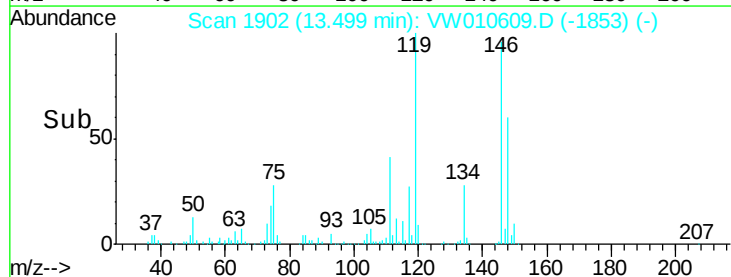
0

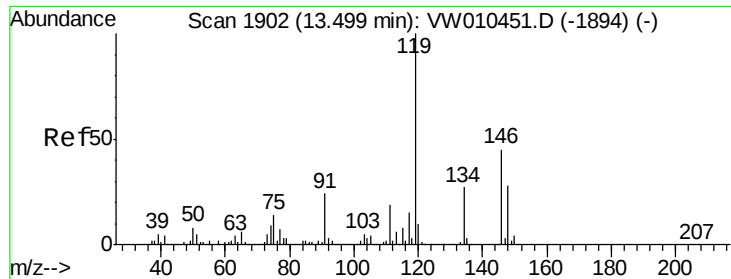
13.50

13.40

13.50

Time-->





#87

1,3-Dichlorobenzene

Concen: 21.495 ug/l

RT: 13.50 min Scan# 1902

Delta R.T. -0.00 min

Lab File: VW010609.D

Acq: 30 May 2019 12:23

Instrument :

MSVOA_W

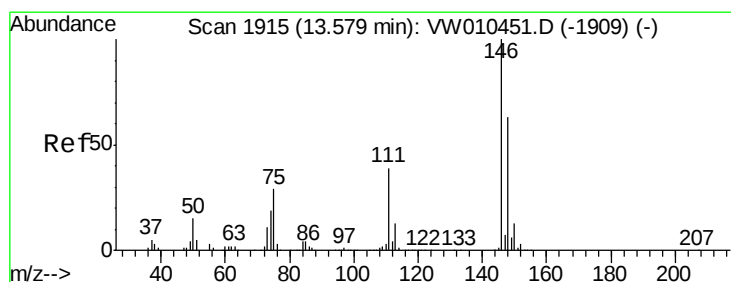
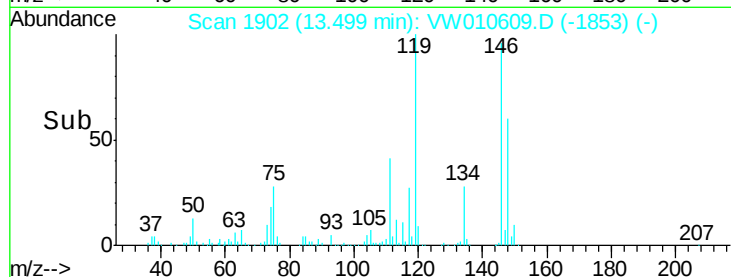
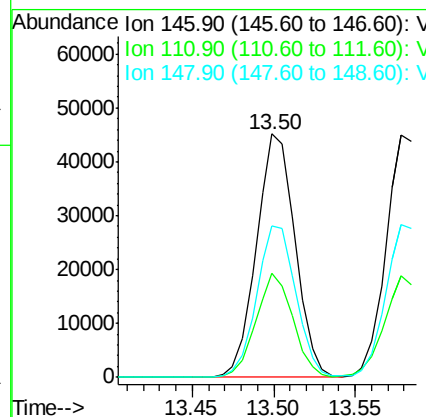
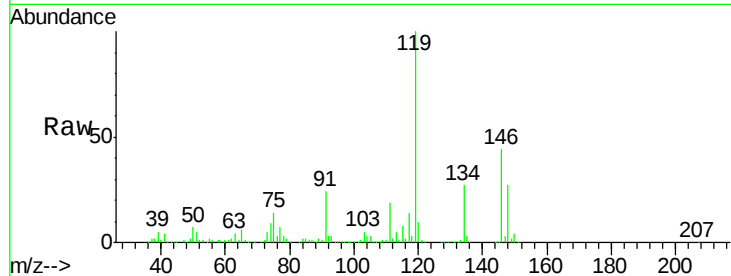
ClientSampleId :

VW0530SBS01

Tot Ion:	146	Resp:	74010
Ion	Ratio	Lower	Upper
146	100		
111	41.0	20.3	60.9
148	63.2	31.6	94.8

Manual Integrations
APPROVED

MMDadoda
6/1/2019 4:27:15 AM



#88

1,4-Dichlorobenzene

Concen: 21.354 ug/l

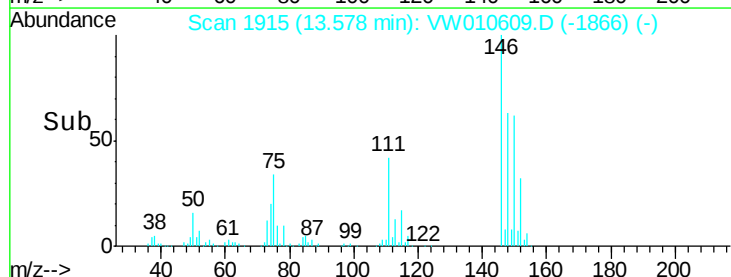
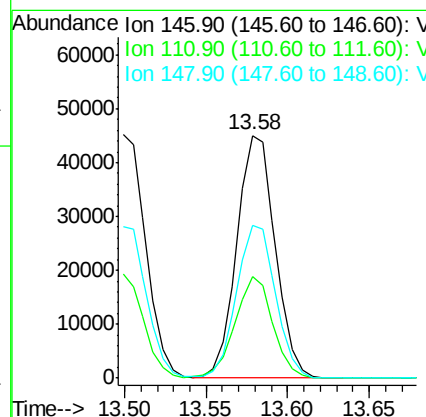
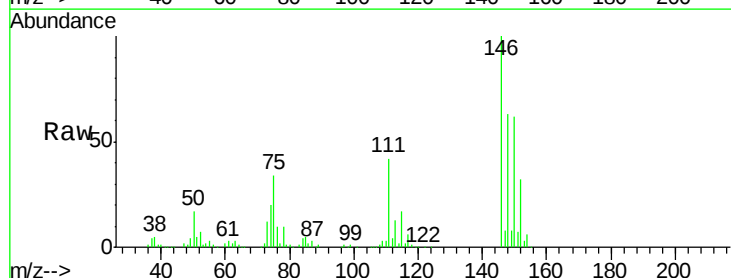
RT: 13.58 min Scan# 1915

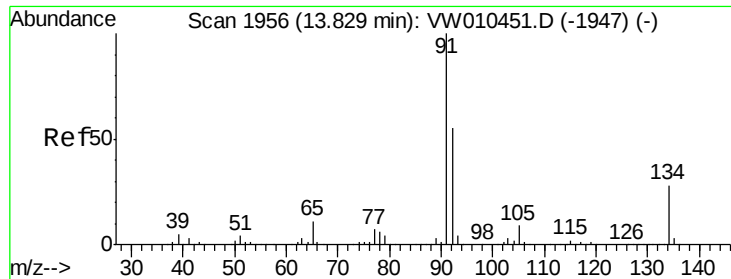
Delta R.T. -0.00 min

Lab File: VW010609.D

Acq: 30 May 2019 12:23

Tgt Ion:	146	Resp:	73767
Ion	Ratio	Lower	Upper
146	100		
111	41.3	19.9	59.6
148	63.8	31.6	94.8





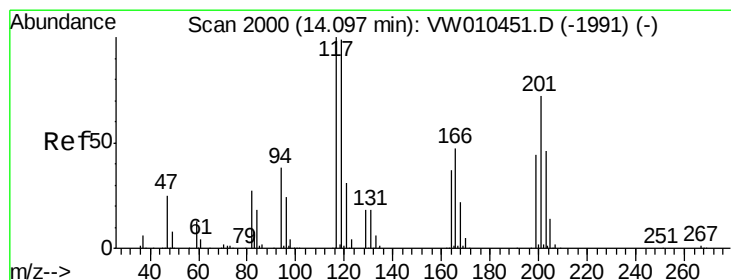
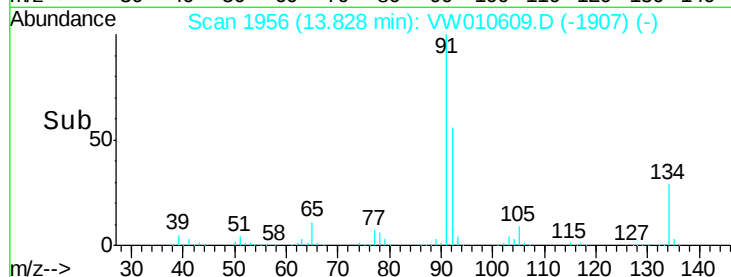
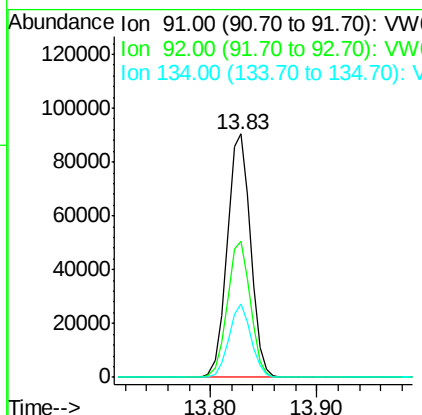
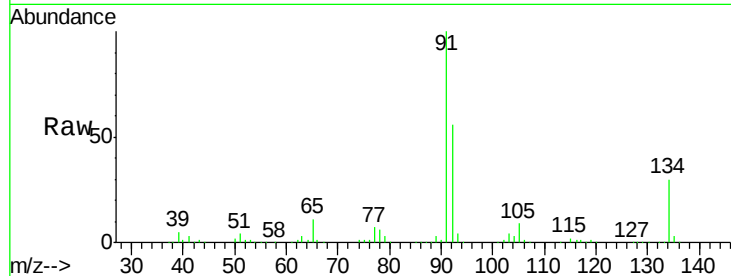
#89
n-Butylbenzene
Concen: 19.850 ug/l
RT: 13.83 min Scan# 1956
Delta R.T. -0.00 min
Lab File: VW010609.D
Acq: 30 May 2019 12:23

Instrument :
MSVOA_W
ClientSampleId :
VW0530SBS01

Tot Ion	Ion	Ratio	Resp	Lower	Upper
91	100		138756		
92	55.2	27.7	83.1		
134	28.3	13.9	41.6		

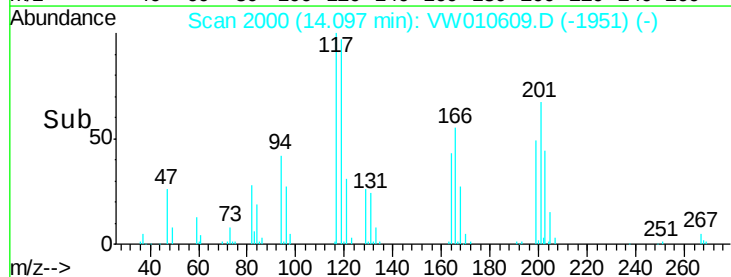
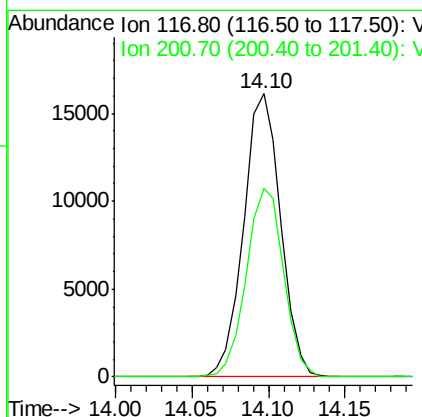
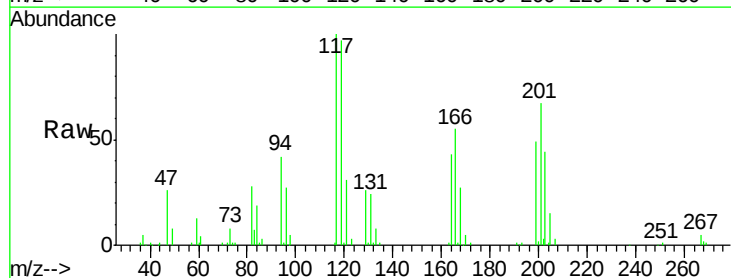
Manual Integrations
APPROVED

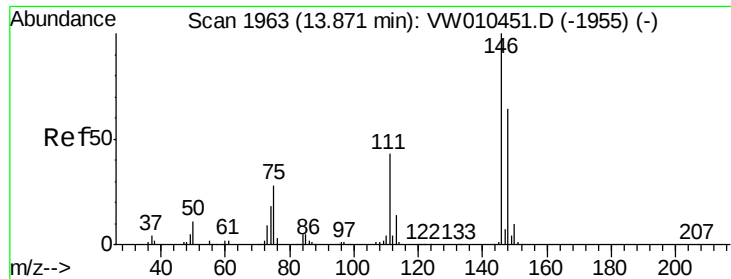
MMDadoda
6/1/2019 4:27:15 AM



#90
Hexachloroethane
Concen: 19.031 ug/l
RT: 14.10 min Scan# 2000
Delta R.T. -0.00 min
Lab File: VW010609.D
Acq: 30 May 2019 12:23

Tgt Ion	Ion	Ratio	Resp	Lower	Upper
117	100		27070		
201	67.2	34.6	103.8		





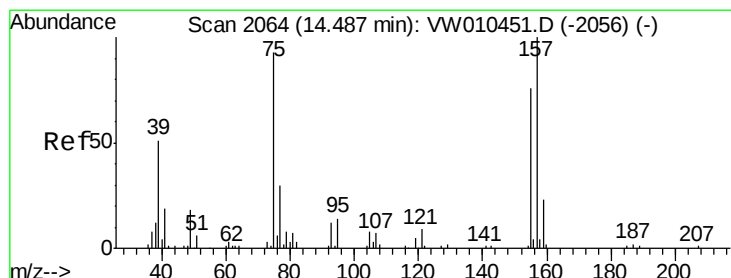
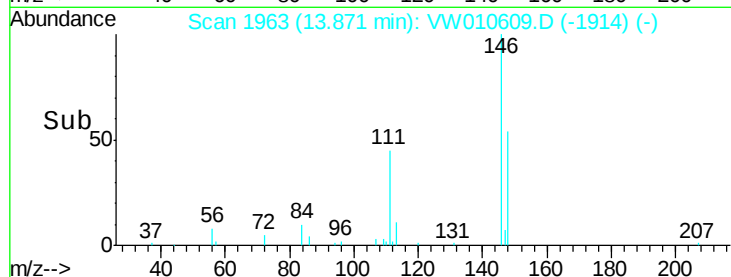
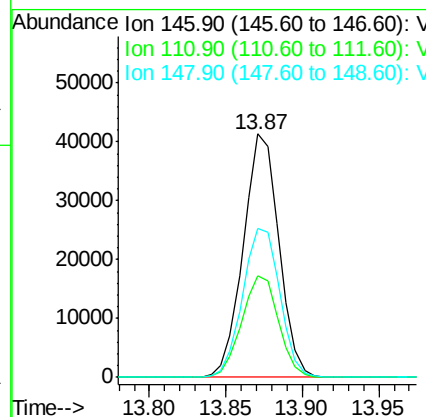
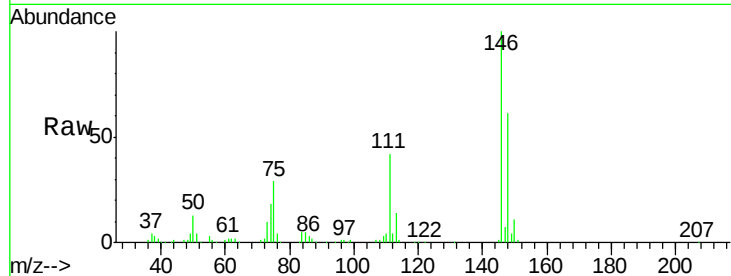
#91
 1,2-Dichlorobenzene
 Concen: 21.307 ug/l
 RT: 13.87 min Scan# 1963
 Delta R.T. -0.00 min
 Lab File: VW010609.D
 Acq: 30 May 2019 12:23

Instrument :
 MSVOA_W
 ClientSampleId :
 VW0530SBS01

Tot Ion	Ratio	Lower	Upper
146	100		
111	43.2	21.3	64.0
148	63.9	32.0	96.0

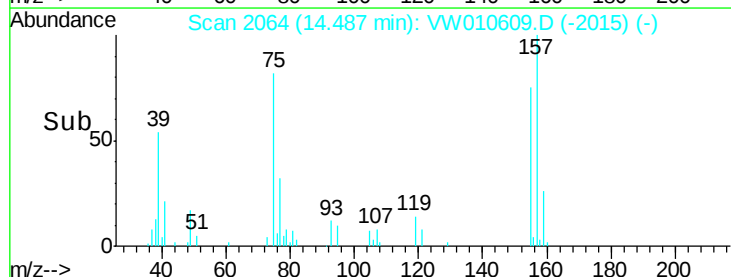
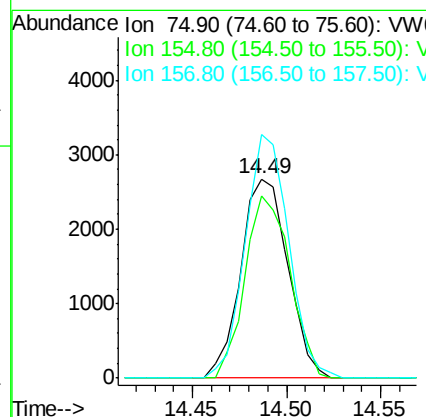
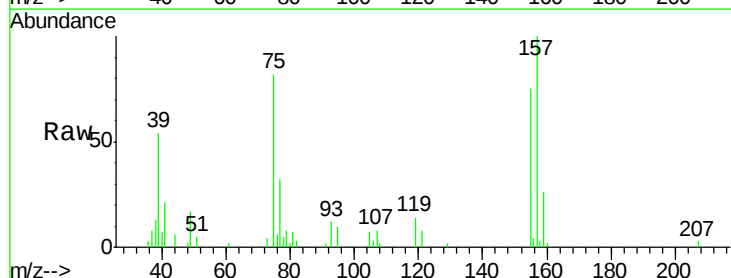
Manual Integrations
 APPROVED

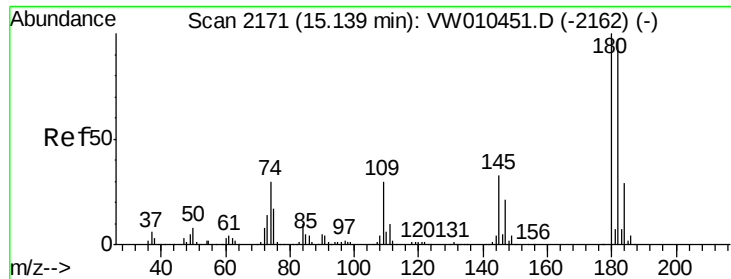
MMDadoda
 6/1/2019 4:27:15 AM



#92
 1,2-Dibromo-3-Chloropropane
 Concen: 17.479 ug/l
 RT: 14.49 min Scan# 2064
 Delta R.T. -0.00 min
 Lab File: VW010609.D
 Acq: 30 May 2019 12:23

Tgt Ion	Ratio	Lower	Upper
75	100		
155	87.4	43.0	129.0
157	113.3	55.7	167.1





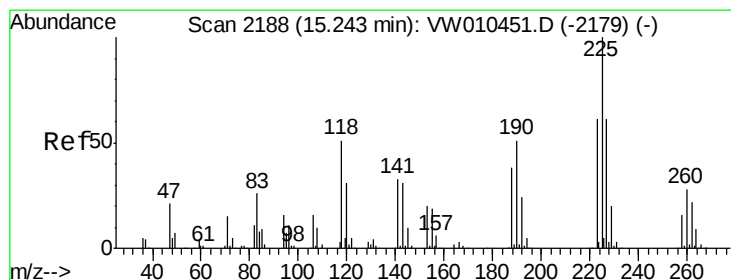
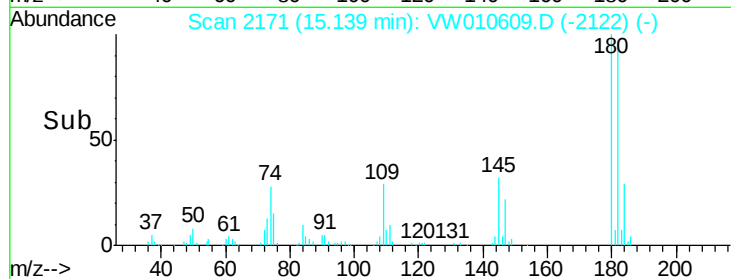
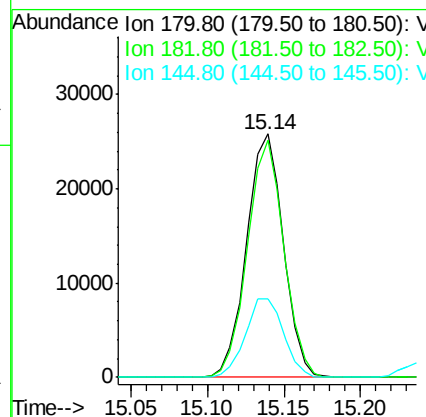
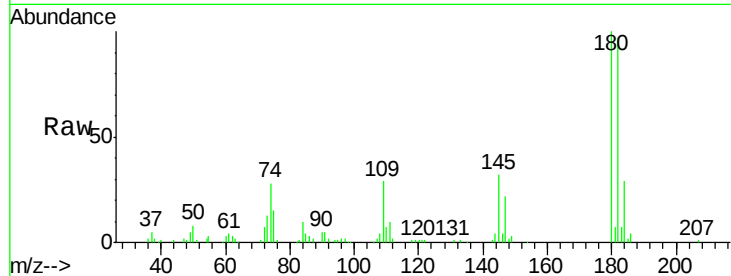
#93
 1,2,4-Trichlorobenzene
 Concen: 20.210 ug/l
 RT: 15.14 min Scan# 2171
 Delta R.T. -0.00 min
 Lab File: VW010609.D
 Acq: 30 May 2019 12:23

Instrument :
 MSVOA_W
 ClientSampleId :
 VW0530SBS01

Tot Ion	Ratio	Lower	Upper
180	100		
182	96.0	47.0	141.2
145	33.6	16.7	50.0

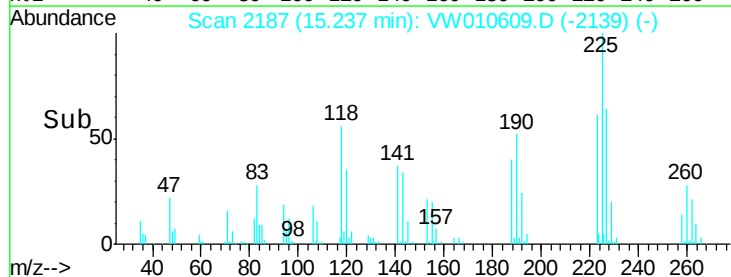
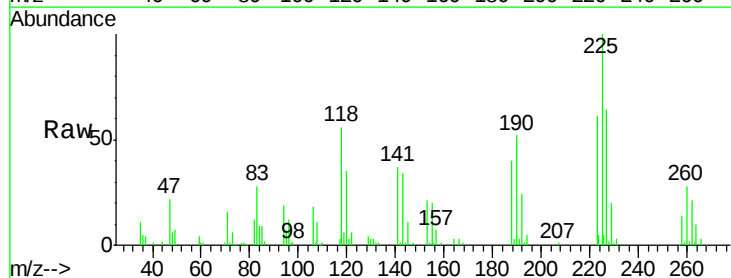
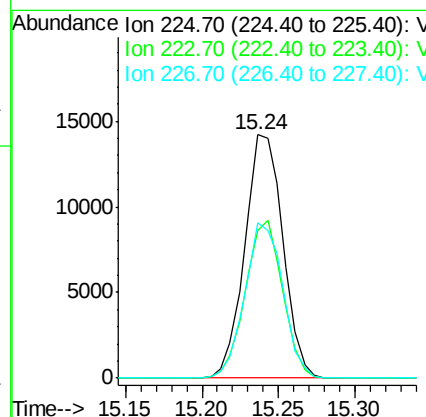
Manual Integrations
 APPROVED

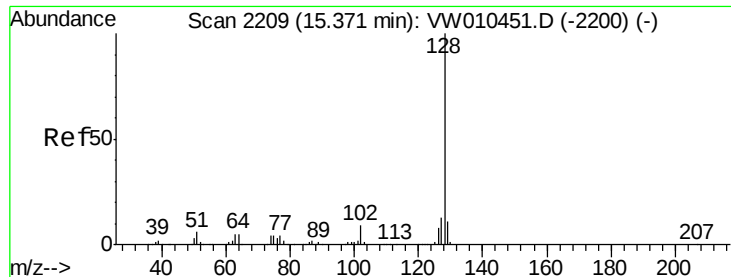
MMDadoda
 6/1/2019 4:27:15 AM



#94
 Hexachlorobutadiene
 Concen: 21.594 ug/l
 RT: 15.24 min Scan# 2187
 Delta R.T. -0.01 min
 Lab File: VW010609.D
 Acq: 30 May 2019 12:23

Tgt Ion	Ratio	Lower	Upper
225	100		
223	63.3	31.1	93.2
227	63.7	31.1	93.5





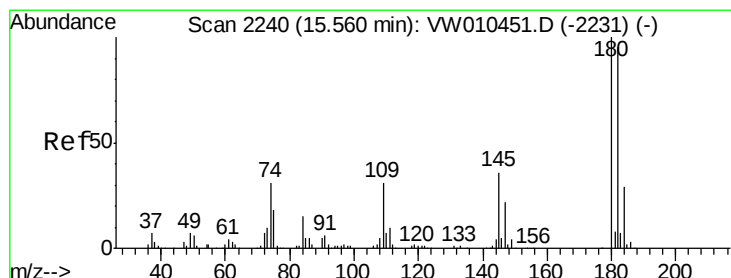
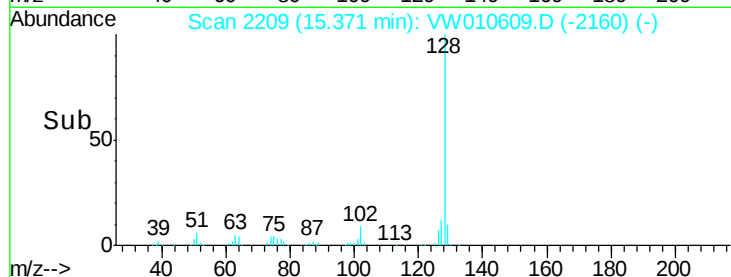
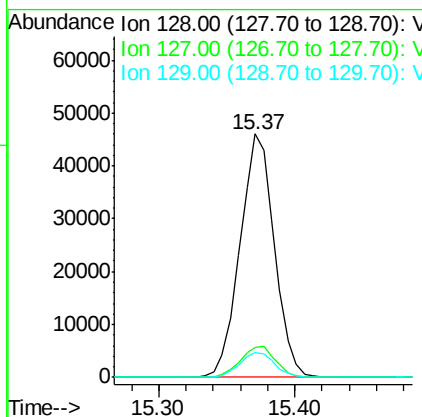
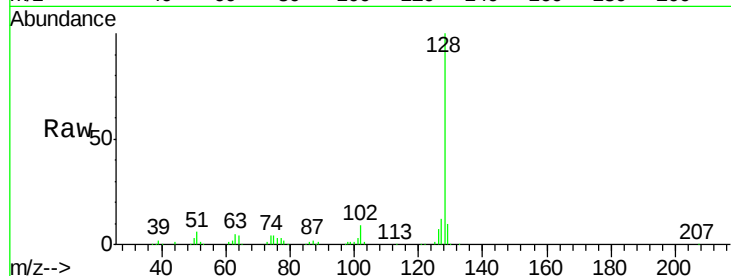
#95
Naphthalene
Concen: 18.045 ug/l
RT: 15.37 min Scan# 2209
Delta R.T. -0.00 min
Lab File: VW010609.D
Acq: 30 May 2019 12:23

Instrument :
MSVOA_W
ClientSampleId :
VW0530SBS01

Tot Ion	Ratio	Lower	Upper
128	100		
127	13.1	10.6	15.8
129	10.6	8.9	13.3

Manual Integrations
APPROVED

MMDadoda
6/1/2019 4:27:15 AM



#96
1,2,3-Trichlorobenzene
Concen: 20.283 ug/l
RT: 15.56 min Scan# 2240
Delta R.T. -0.00 min
Lab File: VW010609.D
Acq: 30 May 2019 12:23

Tgt Ion	Ratio	Lower	Upper
180	100		
182	95.2	47.1	141.3
145	34.9	17.4	52.3

