

Data Path : Z:\VOASRV\HPCHEM1\MSVOA W\DATA\VW082619\
 Data File : VW012193.D
 Acq On : 27 Aug 2019 01:07
 Operator : SY/VA
 Sample : K4514-04MSD
 Misc : 5.42G/5ML/MSVOA W/SOIL
 ALS Vial : 37 Sample Multiplier: 1

Instrument :
 MSVOA_W
 ClientSampleId :
 S602-M-1.0-1.5-082319MSD

Manual Integrations
 APPROVED

MMDadoda
 8/27/2019 11:04:41 AM

Quant Time: Aug 27 06:42:30 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_W\METHOD\82W082319S.M
 Quant Title : SW846 8260
 QLast Update : Mon Aug 26 07:18:31 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	7.95	168	208095	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	8.84	114	344238	50.00	ug/l	0.00
63) Chlorobenzene-d5	11.63	117	266653	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.55	152	92916	50.00	ug/l	0.00

System Monitoring Compounds

33) 1,2-Dichloroethane-d4	8.31	65	144817	58.54	ug/l	0.00
Spiked Amount	50.000		Recovery	=	117.08%	
35) Dibromofluoromethane	7.88	113	113223	55.10	ug/l	0.00
Spiked Amount	50.000		Recovery	=	110.20%	
50) Toluene-d8	10.32	98	432167	51.87	ug/l	0.00
Spiked Amount	50.000		Recovery	=	103.74%	
62) 4-Bromofluorobenzene	12.62	95	123459	42.04	ug/l	0.00
Spiked Amount	50.000		Recovery	=	84.08%	

Target Compounds

						Qvalue
2) Dichlorodifluoromethane	2.01	85	78278	61.092	ug/l	95
3) Chloromethane	2.21	50	121858	61.385	ug/l	99
4) Vinyl Chloride	2.36	62	143487	59.055	ug/l	100
5) Bromomethane	2.77	94	72501	58.919	ug/l	99
6) Chloroethane	2.92	64	80623	58.821	ug/l	97
7) Trichlorofluoromethane	3.25	101	70560	57.834	ug/l	99
8) Diethyl Ether	3.68	74	76881	66.389	ug/l	98
9) 1,1,2-Trichlorotrifluoroet	4.06	101	143425	69.160	ug/l	100
10) Methyl Iodide	4.27	142	162897	58.055	ug/l	99
11) Tert butyl alcohol	5.18	59	51896	348.603	ug/l	99
12) 1,1-Dichloroethene	4.04	96	120024	57.502	ug/l	98
13) Acrolein	3.89	56	30146	215.124	ug/l	100
14) Allyl chloride	4.66	41	249062	55.814	ug/l	99
15) Acrylonitrile	5.36	53	188761	328.853	ug/l	100
16) Acetone	4.12	43	247518	391.432	ug/l	98
17) Carbon Disulfide	4.38	76	335230	53.142	ug/l	99
18) Methyl Acetate	4.67	43	137699	87.920	ug/l	99
19) Methyl tert-butyl Ether	5.42	73	224464	66.498	ug/l	100
20) Methylene Chloride	4.91	84	156727	65.562	ug/l	96
21) trans-1,2-Dichloroethene	5.42	96	118069	52.749	ug/l	99
22) Diisopropyl ether	6.31	45	518677	62.708	ug/l	95
23) Vinyl Acetate	6.25	43	484671	95.215	ug/l	98
24) 1,1-Dichloroethane	6.21	63	272477	60.502	ug/l	99
25) 2-Butanone	7.17	43	287160	334.188	ug/l	99
26) 2,2-Dichloropropane	7.17	77	133833	52.502	ug/l	100
27) cis-1,2-Dichloroethene	7.17	96	135927	56.839	ug/l	99
28) Bromochloromethane	7.51	49	105749	53.874	ug/l	99
29) Tetrahydrofuran	7.52	42	190909	370.316	ug/l	99
30) Chloroform	7.67	83	245166	59.502	ug/l	99
31) Cyclohexane	7.95	56	222412	49.916	ug/l	99
32) 1,1,1-Trichloroethane	7.87	97	193079	59.236	ug/l	100
36) 1,1-Dichloropropene	8.08	75	178556	50.194	ug/l	99
37) Ethyl Acetate	7.25	43	117638	60.347	ug/l	100
38) Carbon Tetrachloride	8.07	117	173065	56.210	ug/l	99

Data Path : Z:\VOASRV\HPCHEM1\MSVOA W\DATA\VW082619\
 Data File : VW012193.D
 Acq On : 27 Aug 2019 01:07
 Operator : SY/VA
 Sample : K4514-04MSD
 Misc : 5.42G/5ML/MSVOA W/SOIL
 ALS Vial : 37 Sample Multiplier: 1

Instrument :
 MSVOA_W
 ClientSampleId :
 S602-M-1.0-1.5-082319MSD

Manual Integrations
 APPROVED

MMDadoda
 8/27/2019 11:04:41 AM

Quant Time: Aug 27 06:42:30 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_W\METHOD\82W082319S.M
 Quant Title : SW846 8260
 QLast Update : Mon Aug 26 07:18:31 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
39) Methylcyclohexane	9.34	83	175995	44.039	ug/l	97
40) Benzene	8.32	78	556262	57.267	ug/l	99
41) Methacrylonitrile	7.48	41	77013	67.219	ug/l	95
42) 1,2-Dichloroethane	8.40	62	179997	59.126	ug/l	100
43) Isopropyl Acetate	8.42	43	230091	63.723	ug/l	99
44) Trichloroethene	9.09	130	119942	50.795	ug/l	95
45) 1,2-Dichloropropane	9.37	63	151635	58.005	ug/l	100
46) Dibromomethane	9.46	93	67994	58.458	ug/l	97
47) Bromodichloromethane	9.64	83	179262	57.909	ug/l	98
48) Methyl methacrylate	9.43	41	113762	66.196	ug/l	96
49) 1,4-Dioxane	9.46	88	23320	1309.659	ug/l	97
51) 4-Methyl-2-Pentanone	10.21	43	621407	338.353	ug/l	100
52) Toluene	10.38	92	318966	54.661	ug/l	100
53) t-1,3-Dichloropropene	10.60	75	155150	49.203	ug/l	99
54) cis-1,3-Dichloropropene	10.07	75	199465	52.389	ug/l	99
55) 1,1,2-Trichloroethane	10.79	97	98459	59.829	ug/l	99
56) Ethyl methacrylate	10.65	69	148069	61.821	ug/l	100
57) 1,3-Dichloropropane	10.93	76	180729	58.114	ug/l	100
58) 2-Chloroethyl Vinyl ether	9.92	63	339389	276.098	ug/l	99
59) 2-Hexanone	10.96	43	423403	325.823	ug/l	100
60) Dibromochloromethane	11.13	129	106330	58.009	ug/l	100
61) 1,2-Dibromoethane	11.23	107	85424	55.718	ug/l	99
64) Tetrachloroethene	10.86	164	112420	65.028	ug/l	99
65) Chlorobenzene	11.66	112	282566	53.816	ug/l	98
66) 1,1,1,2-Tetrachloroethane	11.73	131	116111	63.389	ug/l	100
67) Ethyl Benzene	11.73	91	561686	55.533	ug/l	98
68) m/p-Xylenes	11.84	106	398804	109.461	ug/l	99
69) o-Xylene	12.16	106	195137	57.869	ug/l	100
70) Styrene	12.18	104	302743	51.869	ug/l	97
71) Bromoform	12.35	173	59750	65.471	ug/l #	99
73) Isopropylbenzene	12.46	105	499911	71.802	ug/l	98
74) N-amyl acetate	12.27	43	131213	62.378	ug/l	100
75) 1,1,2,2-Tetrachloroethane	12.71	83	114101	89.393	ug/l	100
76) 1,2,3-Trichloropropane	12.77	75	76767m	84.831	ug/l	
77) Bromobenzene	12.74	156	102843	68.279	ug/l	96
78) n-propylbenzene	12.80	91	545922	64.229	ug/l	99
79) 2-Chlorotoluene	12.89	91	329513	68.284	ug/l	100
80) 1,3,5-Trimethylbenzene	12.94	105	394002	67.725	ug/l	100
81) trans-1,4-Dichloro-2-buten	12.51	75	33594	81.394	ug/l	99
82) 4-Chlorotoluene	12.99	91	308813	61.118	ug/l	100
83) tert-Butylbenzene	13.21	119	327842	66.525	ug/l	99
84) 1,2,4-Trimethylbenzene	13.25	105	384932	65.867	ug/l	100
85) sec-Butylbenzene	13.38	105	423430	59.973	ug/l	99
86) p-Isopropyltoluene	13.50	119	368413	58.429	ug/l	100
87) 1,3-Dichlorobenzene	13.50	146	161929	54.963	ug/l	99
88) 1,4-Dichlorobenzene	13.58	146	154361	52.768	ug/l	99
89) n-Butylbenzene	13.82	91	294603	46.984	ug/l	100
90) Hexachloroethane	14.09	117	67397	60.924	ug/l	98
91) 1,2-Dichlorobenzene	13.87	146	157050	60.766	ug/l	99
92) 1,2-Dibromo-3-Chloropropan	14.48	75	18612	86.495	ug/l	96

Data Path : Z:\VOASRV\HPCHEM1\MSVOA W\DATA\VW082619\
Data File : VW012193.D
Acq On : 27 Aug 2019 01:07
Operator : SY/VA
Sample : K4514-04MSD
Misc : 5.42G/5ML/MSVOA W/SOIL
ALS Vial : 37 Sample Multiplier: 1

Instrument :
MSVOA_W
ClientSampleId :
S602-M-1.0-1.5-082319MSD

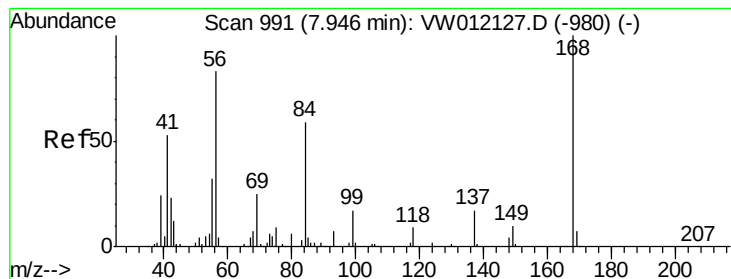
Manual Integrations
APPROVED

MMDadoda
8/27/2019 11:04:41 AM

Quant Time: Aug 27 06:42:30 2019
Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_W\METHOD\82W082319S.M
Quant Title : SW846 8260
QLast Update : Mon Aug 26 07:18:31 2019
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
93) 1,2,4-Trichlorobenzene	15.13	180	63114	35.337	ug/l	98
94) Hexachlorobutadiene	15.24	225	34514	29.266	ug/l	99
95) Naphthalene	15.36	128	186092	52.830	ug/l	100
96) 1,2,3-Trichlorobenzene	15.55	180	60074	38.551	ug/l	98

(#) = 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. -0.00 min

Lab File: VW012193.D

Acq: 27 Aug 2019 01:07

Instrument :

MSVOA_W

ClientSampleId :

S602-M-1.0-1.5-082319MSD

Tot Ion:168 Resp: 208095

Ion Ratio Lower Upper

168 100

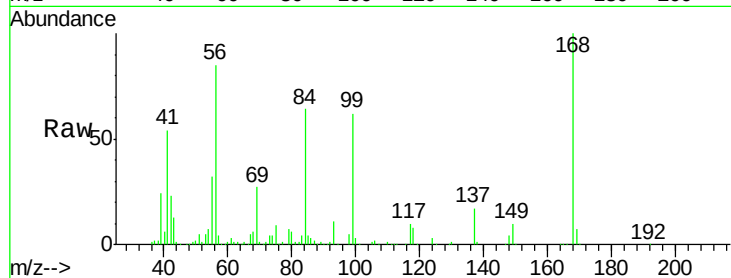
99 61.7 49.2 73.8

Manual Integrations

APPROVED

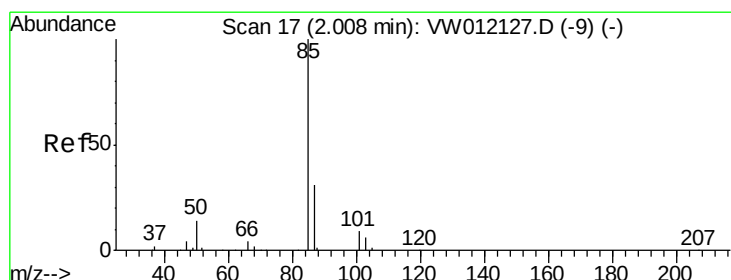
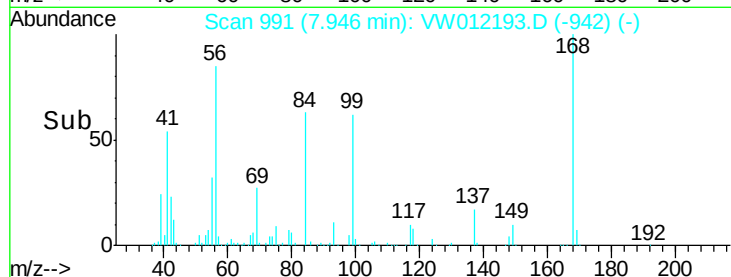
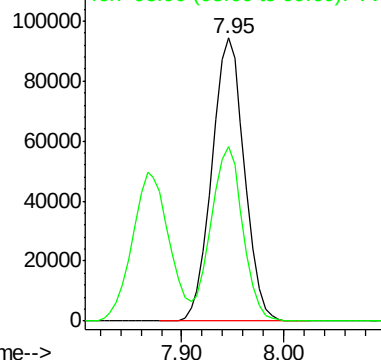
MMDadoda

8/27/2019 11:04:41 AM



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VW



#2

Dichlorodifluoromethane

Concen: 61.092 ug/l

RT: 2.01 min Scan# 17

Delta R.T. -0.00 min

Lab File: VW012193.D

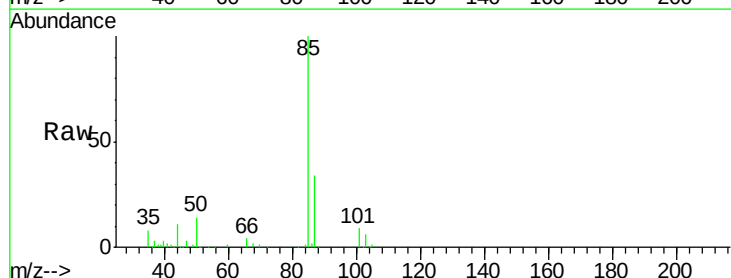
Acq: 27 Aug 2019 01:07

Tgt Ion: 85 Resp: 78278

Ion Ratio Lower Upper

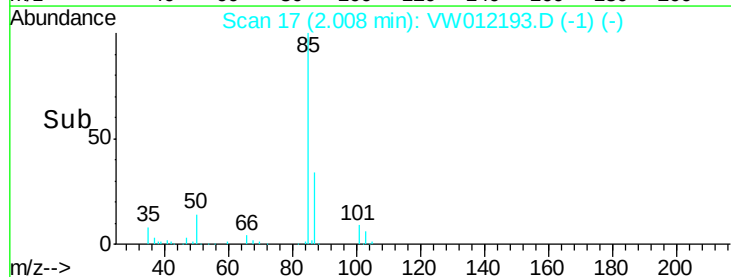
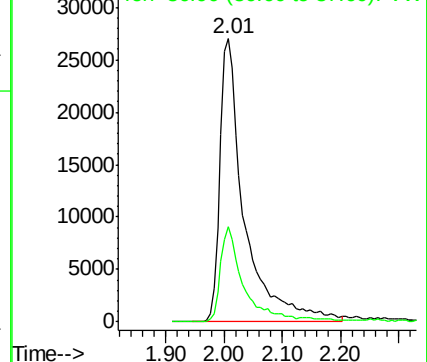
85 100

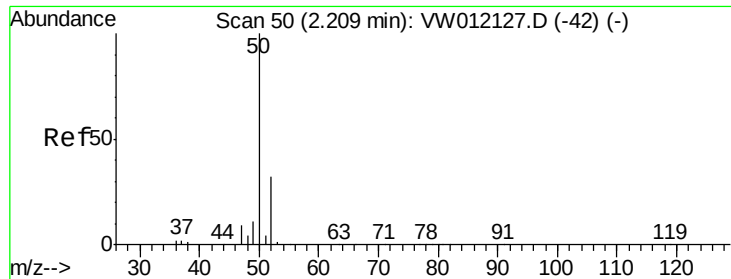
87 33.7 15.6 46.8



Abundance Ion 84.90 (84.60 to 85.60): VW

Ion 86.90 (86.60 to 87.60): VW





#3

Chloromethane

Concen: 61.385 ug/l

RT: 2.21 min Scan# 50

Delta R.T. -0.00 min

Lab File: VW012193.D

Acq: 27 Aug 2019 01:07

Instrument :

MSVOA_W

ClientSampleId :

S602-M-1.0-1.5-082319MSD

Tot Ion: 50 Resp: 121858

Ion Ratio Lower Upper

50 100

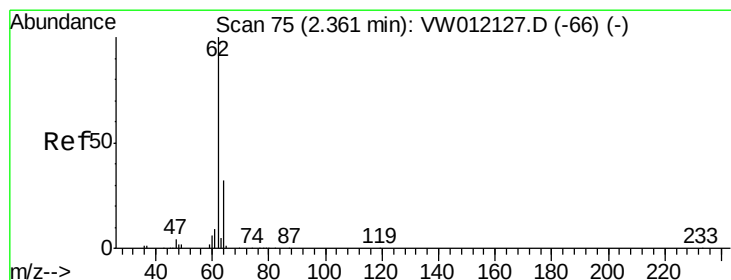
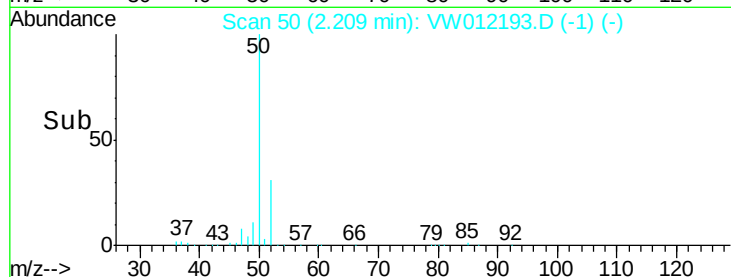
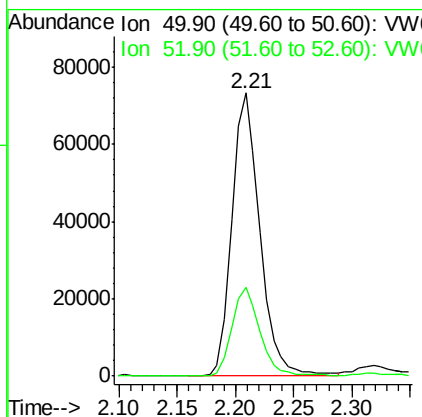
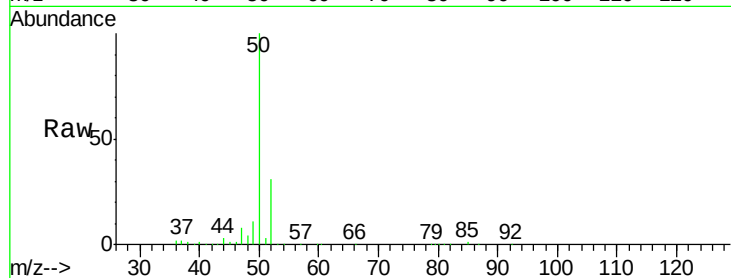
52 31.5 25.5 38.3

Manual Integrations

APPROVED

MMDadoda

8/27/2019 11:04:41 AM



#4

Vinyl Chloride

Concen: 59.055 ug/l

RT: 2.36 min Scan# 75

Delta R.T. -0.00 min

Lab File: VW012193.D

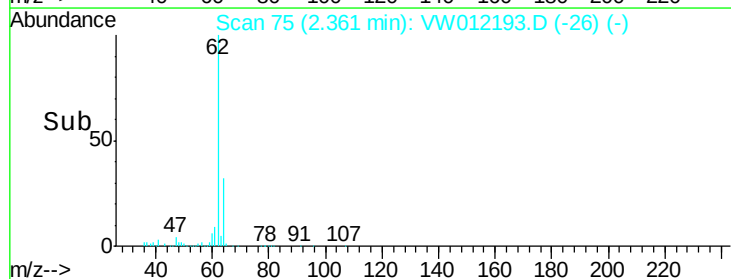
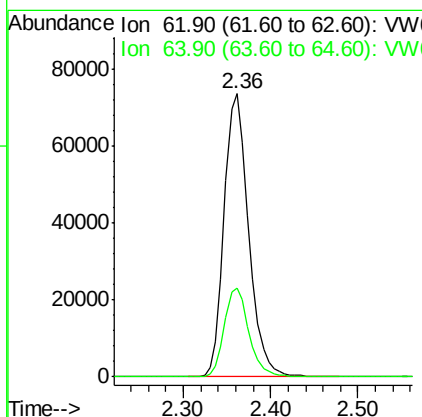
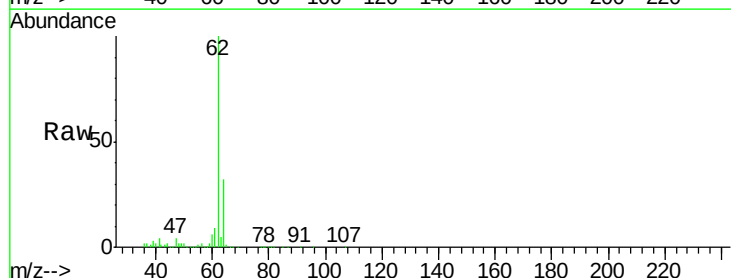
Acq: 27 Aug 2019 01:07

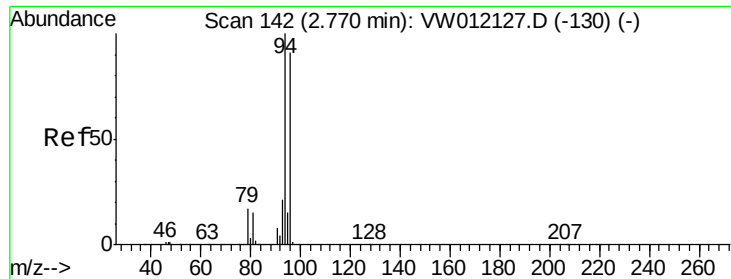
Tgt Ion: 62 Resp: 143487

Ion Ratio Lower Upper

62 100

64 31.5 25.3 37.9





#5

Bromomethane

Concen: 58.919 ug/l

RT: 2.77 min Scan# 142

Delta R.T. -0.00 min

Lab File: VW012193.D

Acq: 27 Aug 2019 01:07

Instrument :

MSVOA_W

ClientSampleId :

S602-M-1.0-1.5-082319MSD

Tot Ion: 94 Resp: 72501

Ion Ratio Lower Upper

94 100

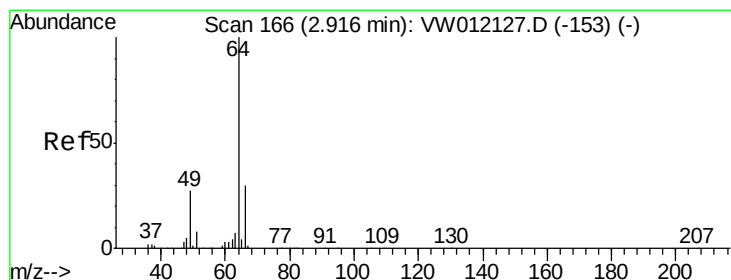
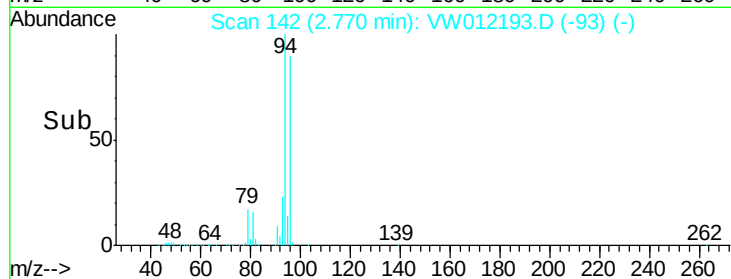
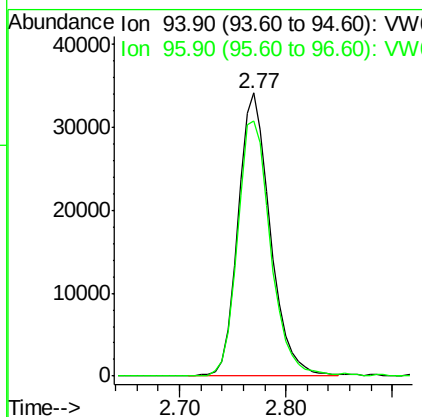
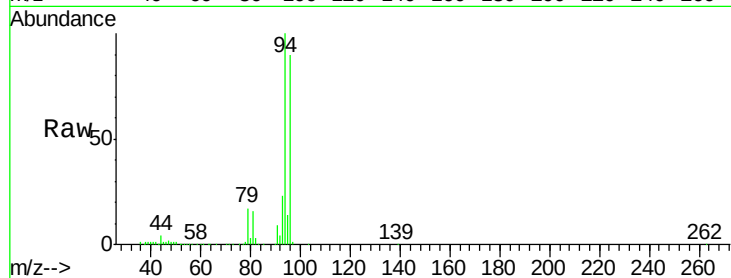
96 90.3 72.9 109.3

Manual Integrations

APPROVED

MMDadoda

8/27/2019 11:04:41 AM



#6

Chloroethane

Concen: 58.821 ug/l

RT: 2.92 min Scan# 166

Delta R.T. -0.00 min

Lab File: VW012193.D

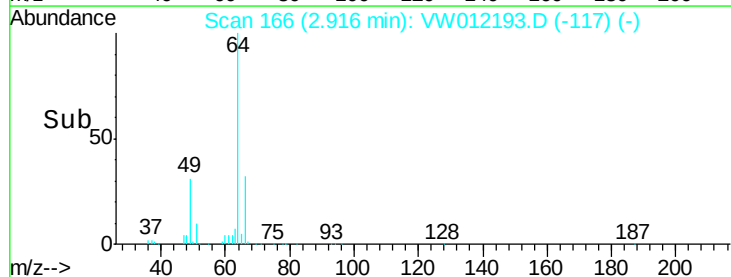
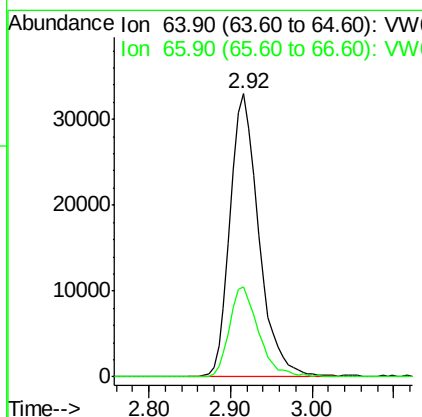
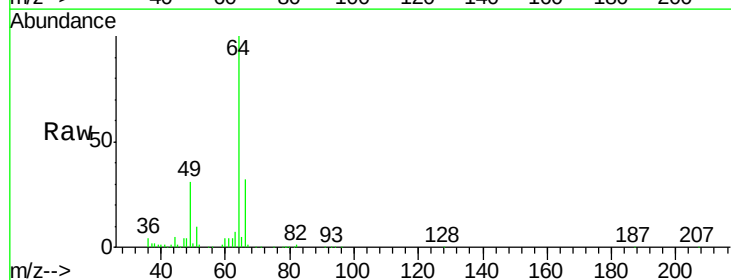
Acq: 27 Aug 2019 01:07

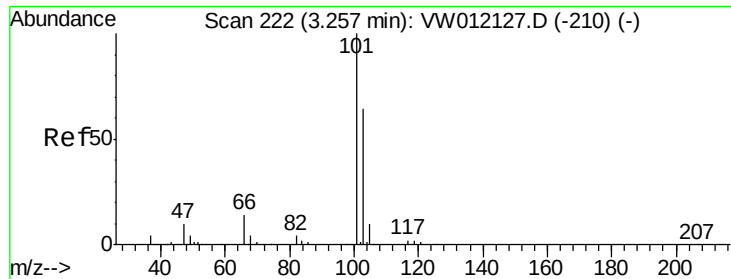
Tgt Ion: 64 Resp: 80623

Ion Ratio Lower Upper

64 100

66 31.6 23.8 35.8





#7

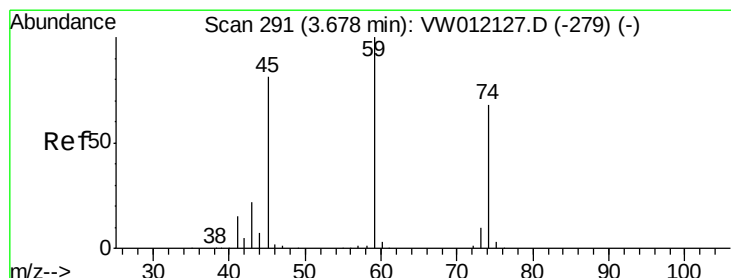
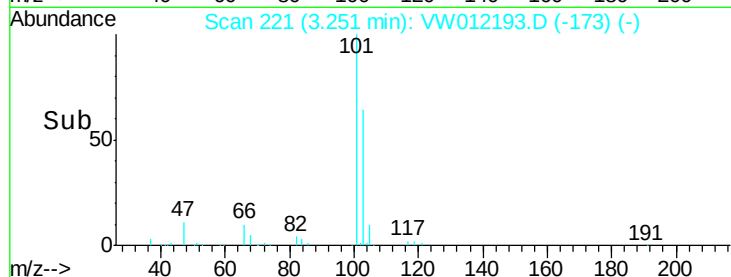
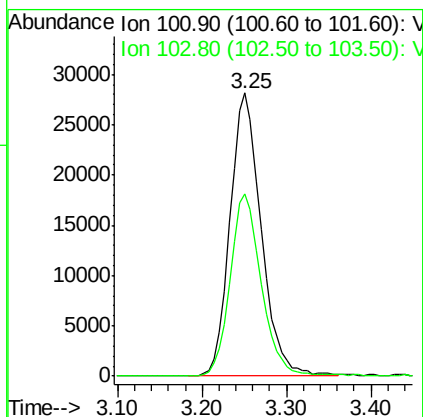
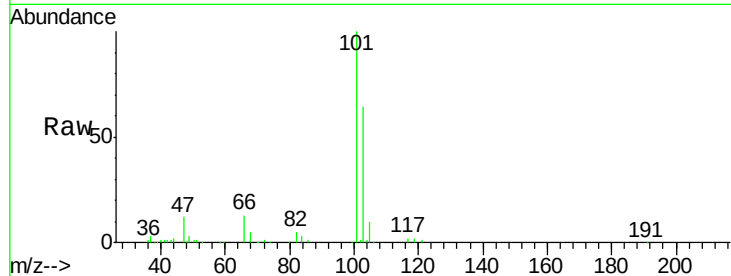
Trichlorofluoromethane
Concen: 57.834 ug/l
RT: 3.25 min Scan# 221
Delta R.T. -0.01 min
Lab File: VW012193.D
Acq: 27 Aug 2019 01:07

Instrument :
MSVOA_W
ClientSampleId :
S602-M-1.0-1.5-082319MSD

Tot Ion	Ratio	Lower	Upper
101	100		
103	64.5	51.2	76.8

Manual Integrations
APPROVED

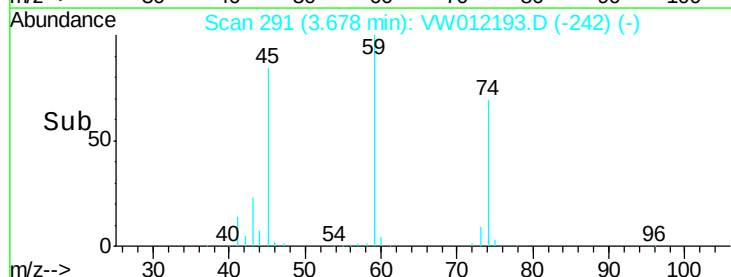
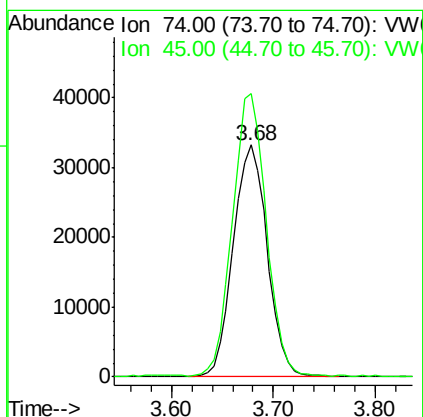
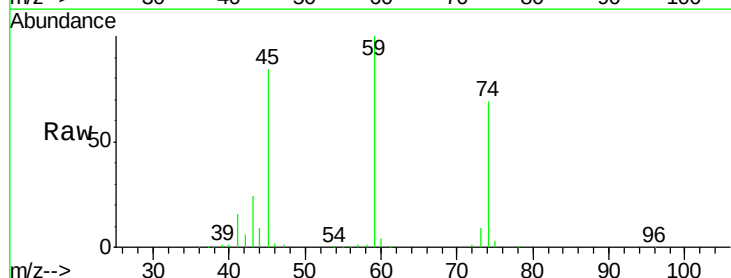
MMDadoda
8/27/2019 11:04:41 AM

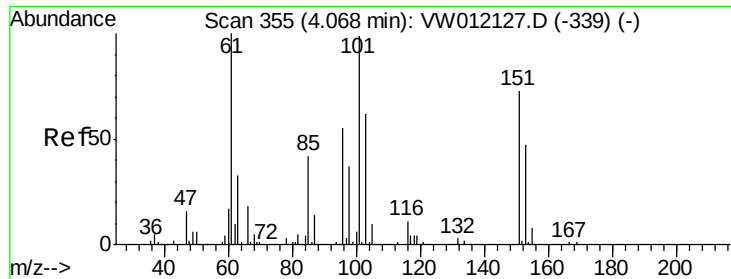


#8

Diethyl Ether
Concen: 66.389 ug/l
RT: 3.68 min Scan# 291
Delta R.T. -0.00 min
Lab File: VW012193.D
Acq: 27 Aug 2019 01:07

Tgt Ion	Ratio	Lower	Upper
74	100		
45	120.9	59.2	177.6





#9

1,1,2-Trichlorotrifluoroethane

Concen: 69.160 ug/l

RT: 4.06 min Scan# 354

Delta R.T. -0.01 min

Lab File: VW012193.D

Acq: 27 Aug 2019 01:07

Instrument :

MSVOA_W

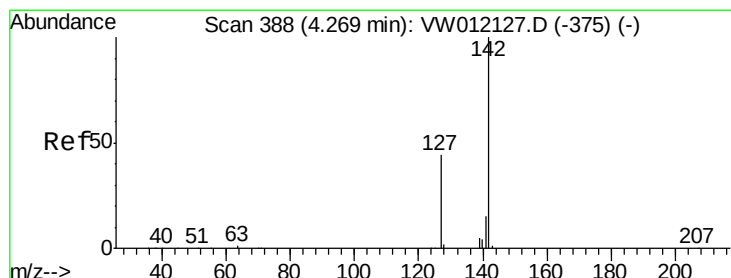
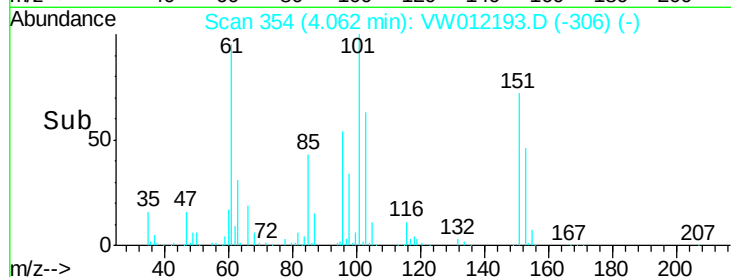
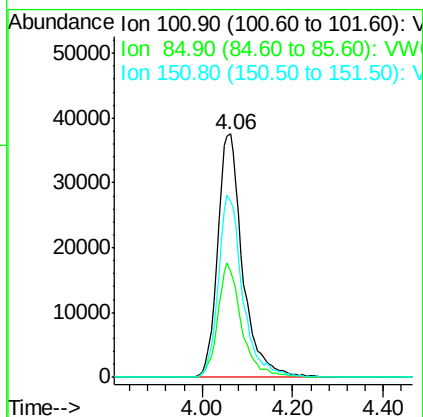
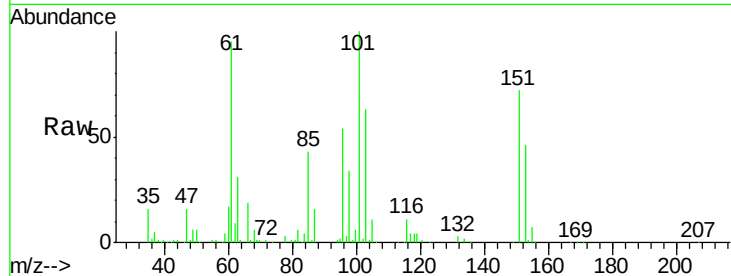
ClientSampleId :

S602-M-1.0-1.5-082319MSD

Tot Ion:	101	Resp:	143425
Ion Ratio	Lower	Upper	
101	100		
85	44.7	35.8	53.6
151	73.0	58.6	87.8

Manual Integrations
APPROVED

MMDadoda
8/27/2019 11:04:41 AM



#10

Methyl Iodide

Concen: 58.055 ug/l

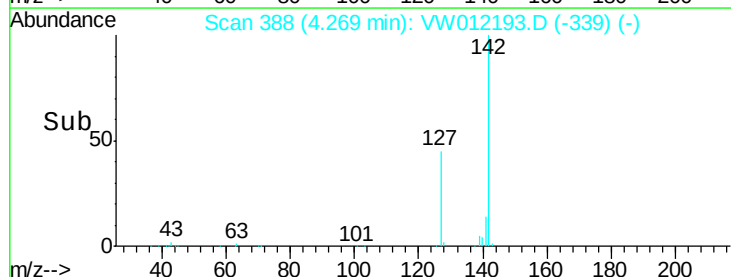
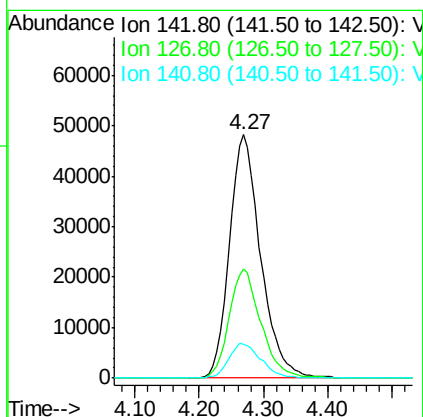
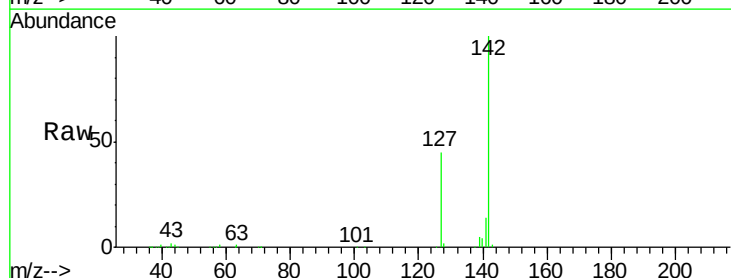
RT: 4.27 min Scan# 388

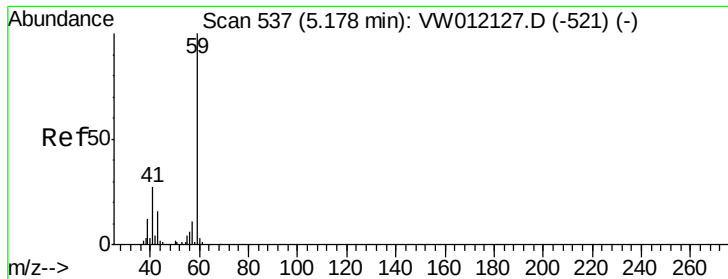
Delta R.T. -0.00 min

Lab File: VW012193.D

Acq: 27 Aug 2019 01:07

Tgt Ion:	142	Resp:	162897
Ion Ratio	Lower	Upper	
142	100		
127	45.6	35.5	53.3
141	14.8	11.8	17.8





#11

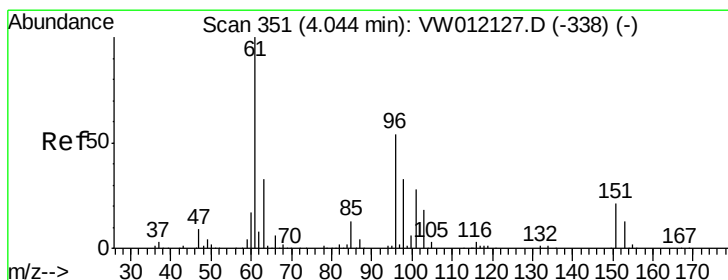
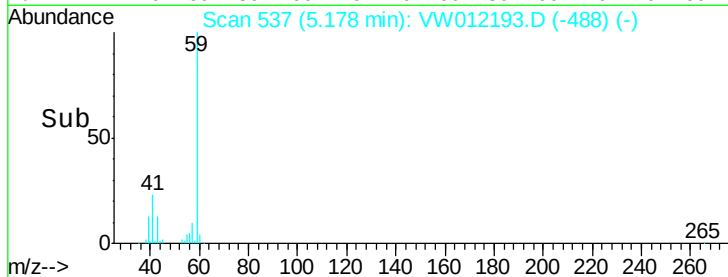
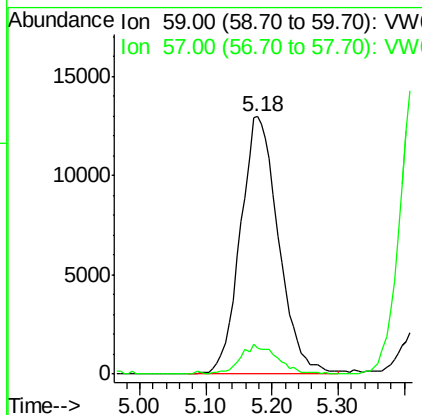
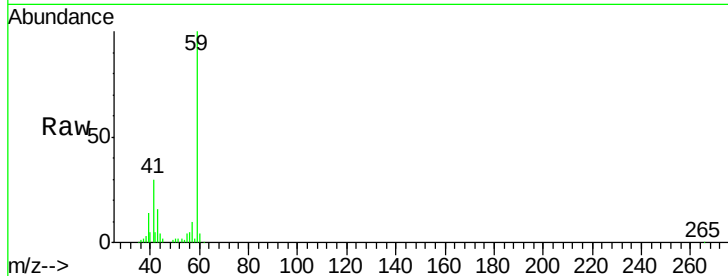
Tert butyl alcohol
Concen: 348.603 ug/l
RT: 5.18 min Scan# 537
Delta R.T. -0.00 min
Lab File: VW012193.D
Acq: 27 Aug 2019 01:07

Instrument :
MSVOA_W
ClientSampleId :
S602-M-1.0-1.5-082319MSD

Tot Ion	Ratio	Lower	Upper
59	100		
57	11.0	9.0	13.4

Manual Integrations
APPROVED

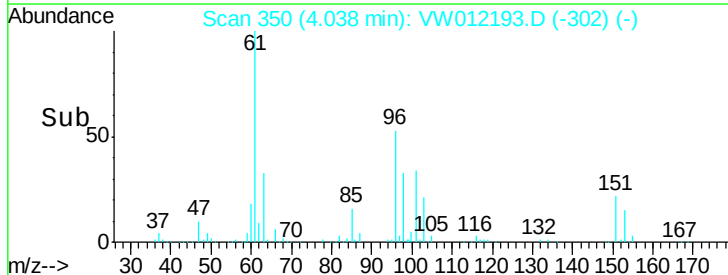
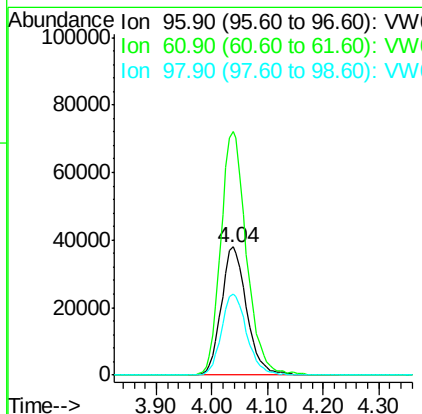
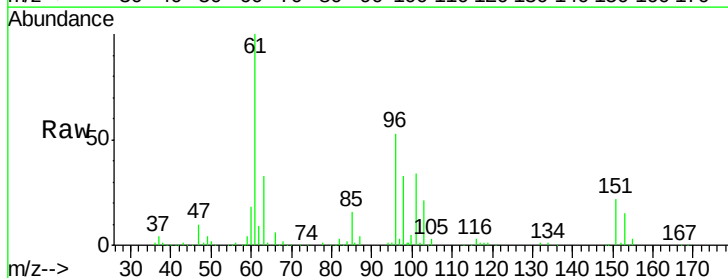
MMDadoda
8/27/2019 11:04:41 AM

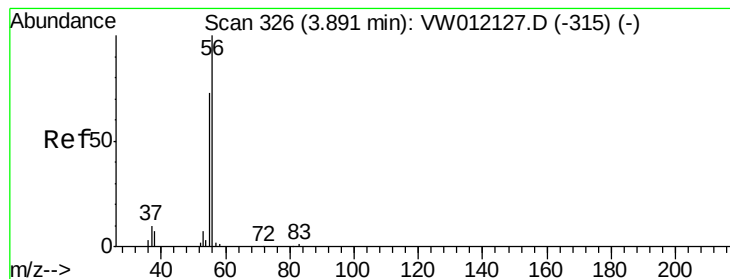


#12

1,1-Dichloroethene
Concen: 57.502 ug/l
RT: 4.04 min Scan# 350
Delta R.T. -0.01 min
Lab File: VW012193.D
Acq: 27 Aug 2019 01:07

Tgt Ion	Ratio	Lower	Upper
96	100		
61	190.0	149.1	223.7
98	63.6	49.4	74.2





#13

Acrolein

Concen: 215.124 ug/l

RT: 3.89 min Scan# 326

Delta R.T. -0.00 min

Lab File: VW012193.D

Acq: 27 Aug 2019 01:07

Instrument :

MSVOA_W

ClientSampleId :

S602-M-1.0-1.5-082319MSD

Tot Ion: 56 Resp: 30146

Ion Ratio Lower Upper

56 100

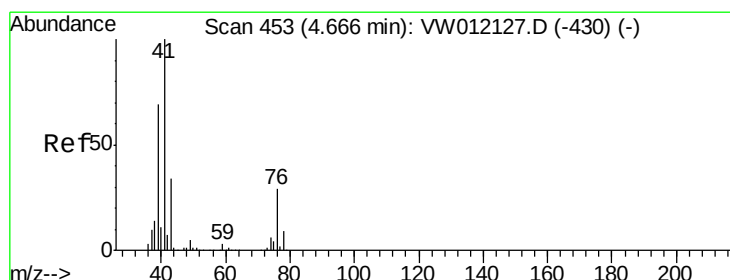
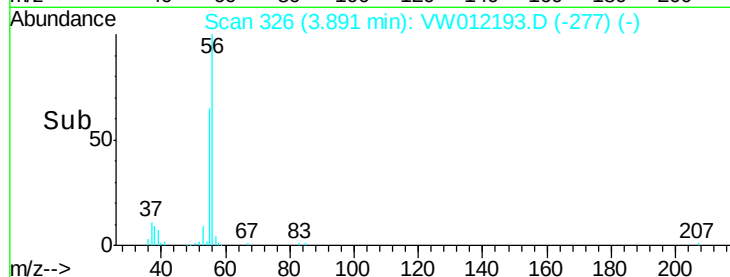
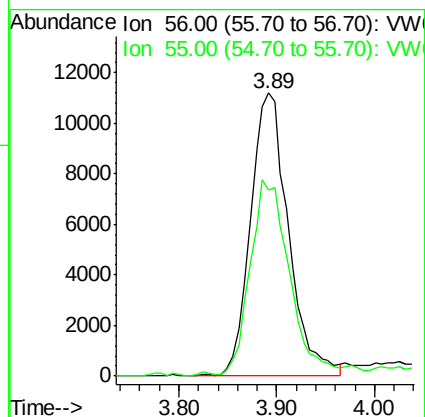
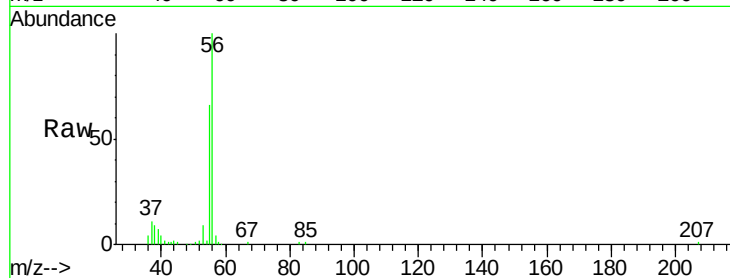
55 69.6 55.8 83.8

Manual Integrations

APPROVED

MMDadoda

8/27/2019 11:04:41 AM



#14

Allyl chloride

Concen: 55.814 ug/l

RT: 4.66 min Scan# 452

Delta R.T. -0.01 min

Lab File: VW012193.D

Acq: 27 Aug 2019 01:07

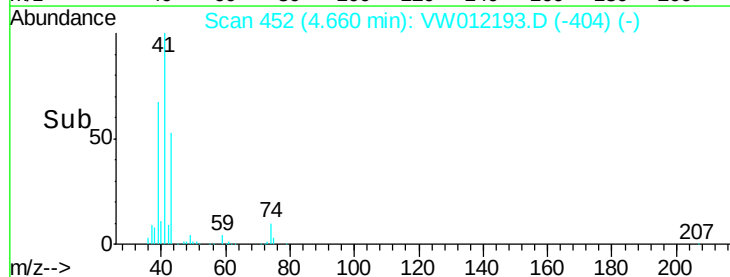
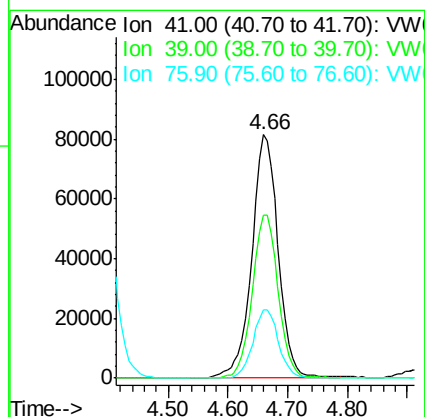
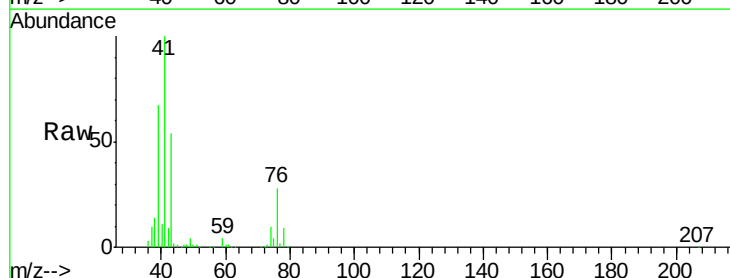
Tgt Ion: 41 Resp: 249062

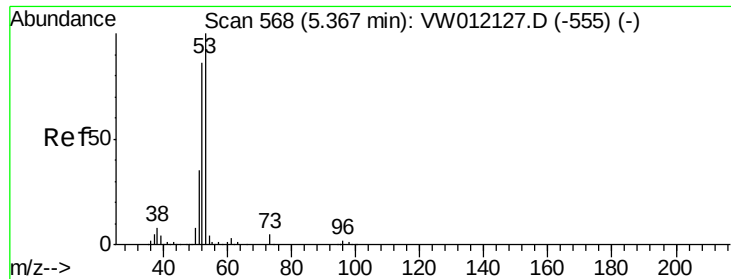
Ion Ratio Lower Upper

41 100

39 66.3 53.4 80.2

76 27.3 22.1 33.1





#15

Acrylonitrile

Concen: 328.853 ug/l

RT: 5.36 min Scan# 567

Delta R.T. -0.01 min

Lab File: VW012193.D

Acq: 27 Aug 2019 01:07

Instrument :

MSVOA_W

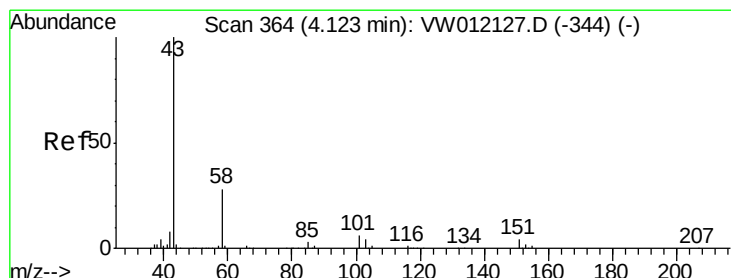
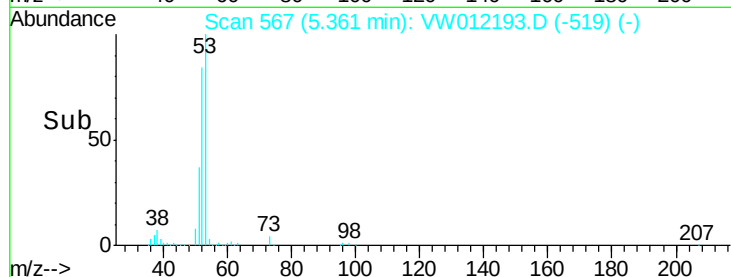
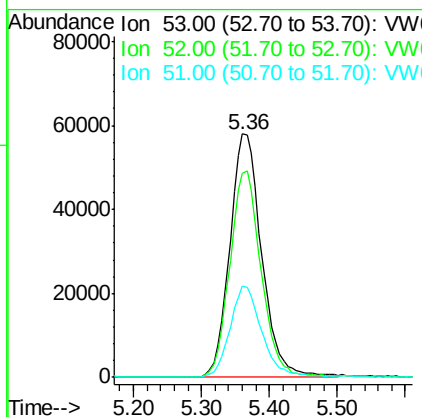
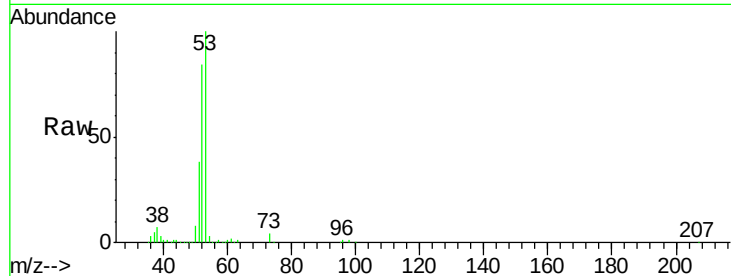
ClientSampleId :

S602-M-1.0-1.5-082319MSD

Tot Ion:	53	Resp:	188761
Ion Ratio	Lower	Upper	
53	100		
52	83.0	66.7	100.1
51	37.3	30.1	45.1

Manual Integrations
APPROVED

MMDadoda
8/27/2019 11:04:41 AM



#16

Acetone

Concen: 391.432 ug/l

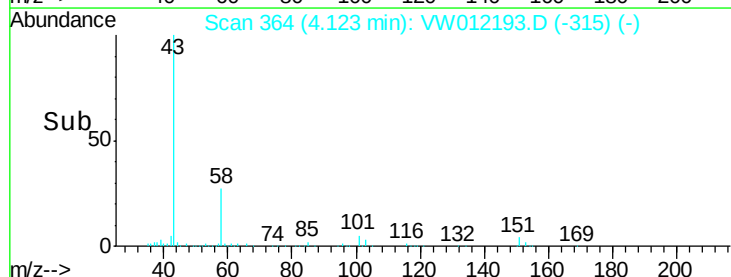
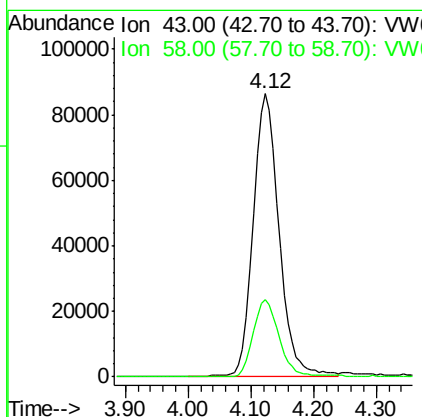
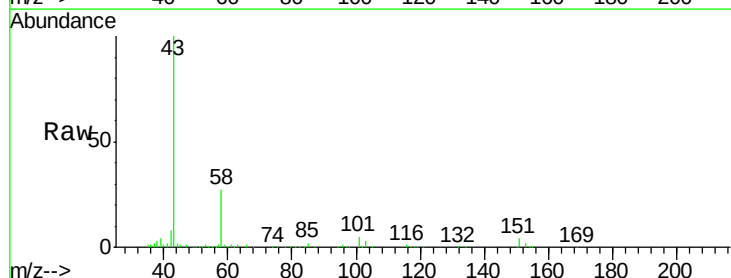
RT: 4.12 min Scan# 364

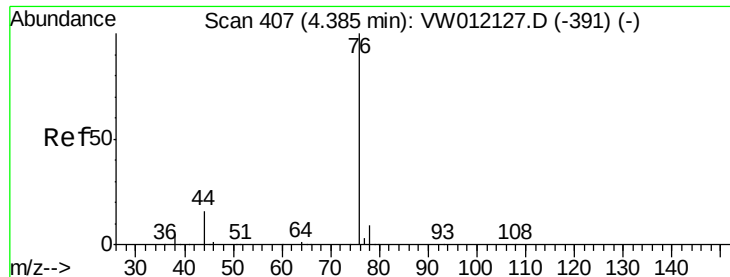
Delta R.T. -0.00 min

Lab File: VW012193.D

Acq: 27 Aug 2019 01:07

Tgt Ion:	43	Resp:	247518
Ion Ratio	Lower	Upper	
43	100		
58	26.9	22.4	33.6





#17

Carbon Disulfide

Concen: 53.142 ug/l

RT: 4.38 min Scan# 406

Delta R.T. -0.01 min

Lab File: VW012193.D

Acq: 27 Aug 2019 01:07

Instrument :

MSVOA_W

ClientSampleId :

S602-M-1.0-1.5-082319MSD

Tot Ion: 76 Resp: 335230

Ion Ratio Lower Upper

76 100

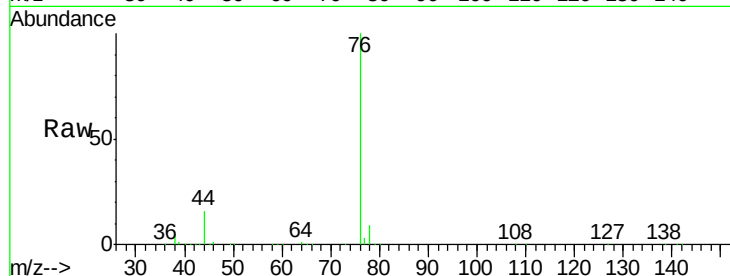
78 8.9 7.3 10.9

Manual Integrations

APPROVED

MMDadoda

8/27/2019 11:04:41 AM



Abundance Ion 75.90 (75.60 to 76.60): VW

Ion 77.90 (77.60 to 78.60): VW

4.38

120000

100000

80000

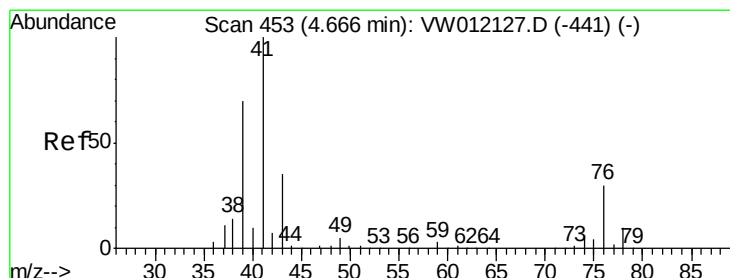
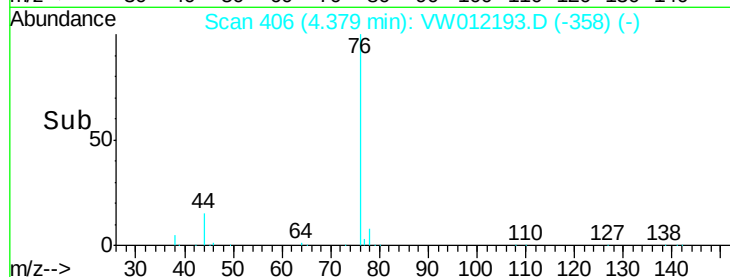
60000

40000

20000

0

Time-->



#18

Methyl Acetate

Concen: 87.920 ug/l

RT: 4.67 min Scan# 453

Delta R.T. -0.00 min

Lab File: VW012193.D

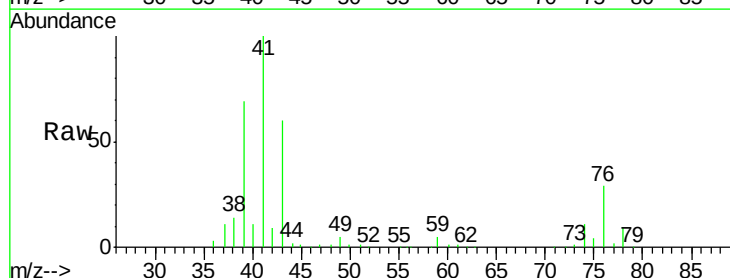
Acq: 27 Aug 2019 01:07

Tgt Ion: 43 Resp: 137699

Ion Ratio Lower Upper

43 100

74 19.2 15.7 23.5



Abundance Ion 43.00 (42.70 to 43.70): VW

Ion 74.00 (73.70 to 74.70): VW

4.67

50000

40000

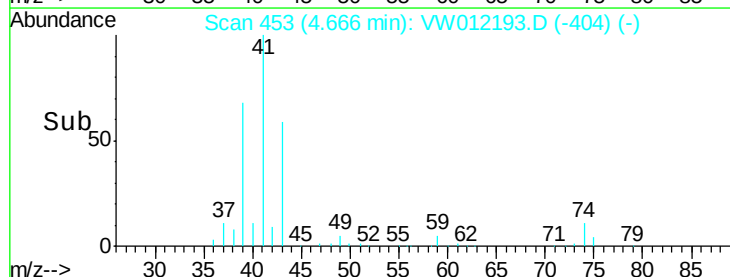
30000

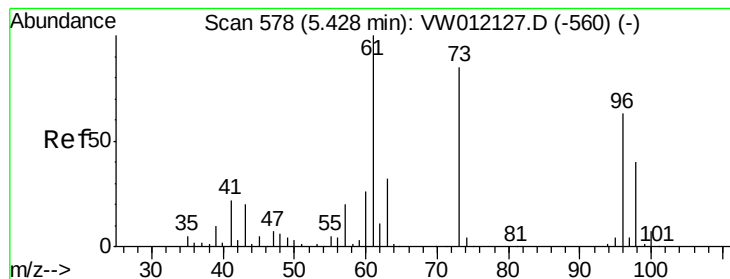
20000

10000

0

Time-->





#19

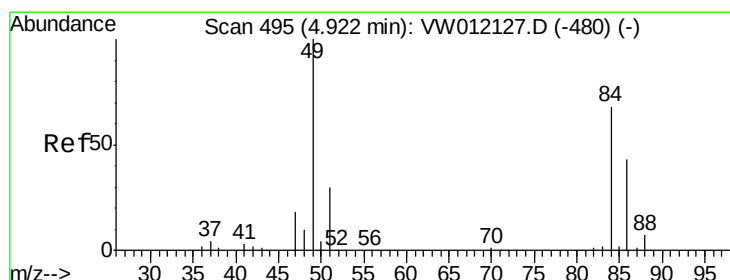
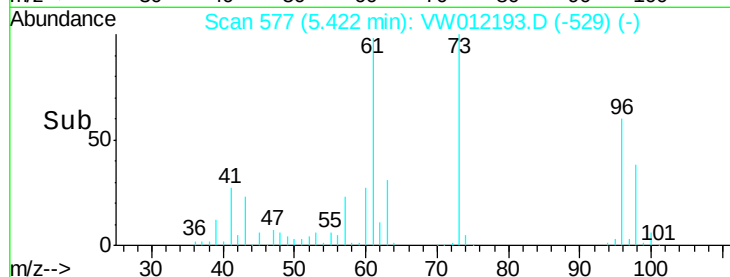
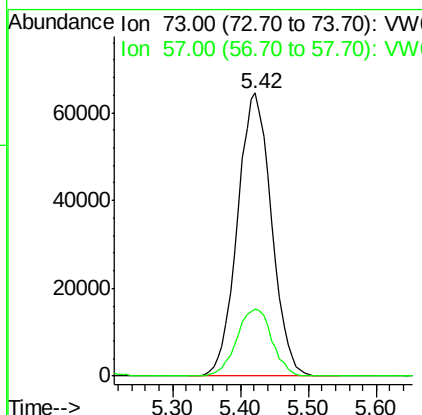
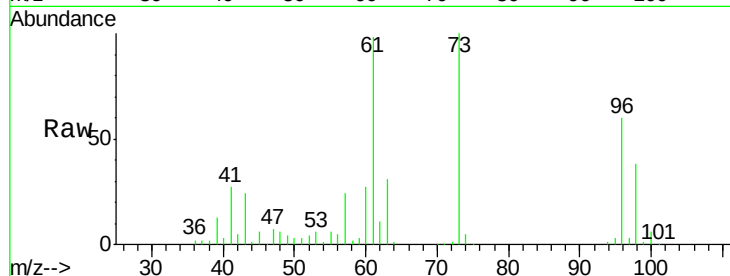
Methyl tert-butyl Ether
 Concen: 66.498 ug/l
 RT: 5.42 min Scan# 577
 Delta R.T. -0.01 min
 Lab File: VW012193.D
 Acq: 27 Aug 2019 01:07

Instrument :
 MSVOA_W
 ClientSampleId :
 S602-M-1.0-1.5-082319MSD

Tot Ion	Ratio	Lower	Upper
73	100		
57	23.6	18.9	28.3

Manual Integrations
 APPROVED

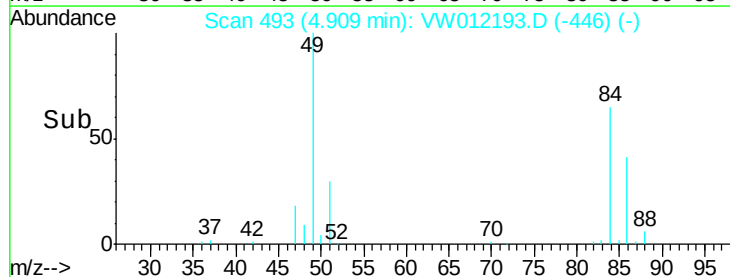
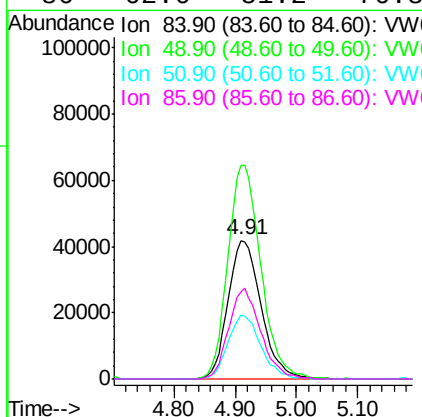
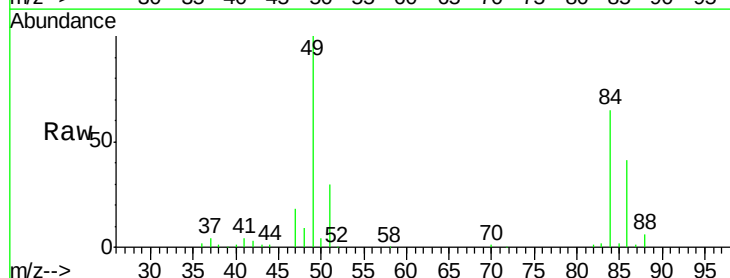
MMDadoda
 8/27/2019 11:04:41 AM

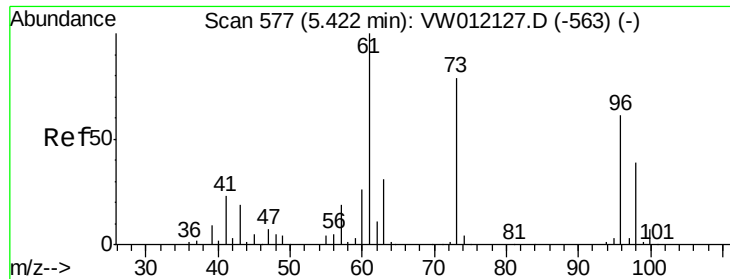


#20

Methylene Chloride
 Concen: 65.562 ug/l
 RT: 4.91 min Scan# 493
 Delta R.T. -0.01 min
 Lab File: VW012193.D
 Acq: 27 Aug 2019 01:07

Tgt Ion	Ratio	Lower	Upper
84	100		
49	153.9	117.8	176.8
51	45.9	35.6	53.4
86	62.6	51.2	76.8





#21

trans-1,2-Dichloroethene

Concen: 52.749 ug/l

RT: 5.42 min Scan# 576

Delta R.T. -0.01 min

Lab File: VW012193.D

Acq: 27 Aug 2019 01:07

Instrument :

MSVOA_W

ClientSampleId :

S602-M-1.0-1.5-082319MSD

Tot Ion: 96 Resp: 118069

Ion Ratio Lower Upper

96 100

61 163.4 131.4 197.0

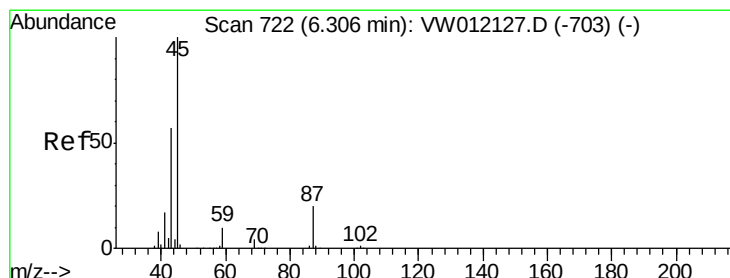
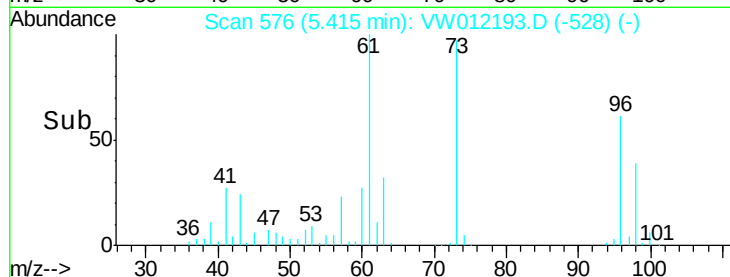
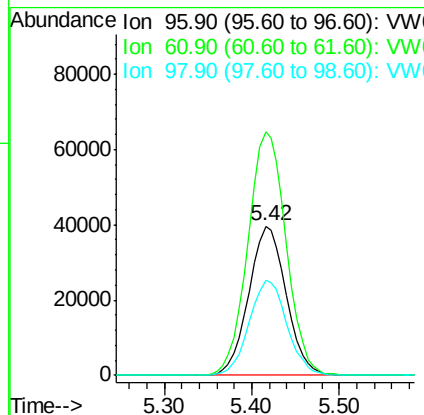
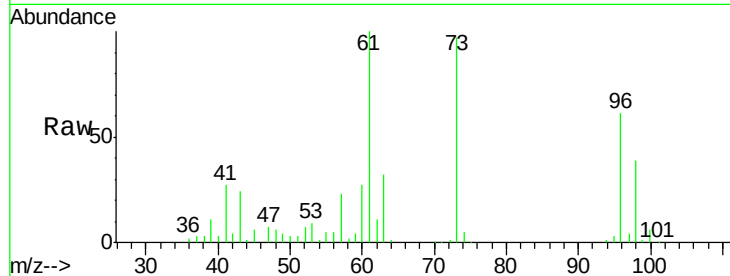
98 64.0 51.4 77.0

Manual Integrations

APPROVED

MMDadoda

8/27/2019 11:04:41 AM



#22

Diisopropyl ether

Concen: 62.708 ug/l

RT: 6.31 min Scan# 722

Delta R.T. -0.00 min

Lab File: VW012193.D

Acq: 27 Aug 2019 01:07

Tgt Ion: 45 Resp: 518677

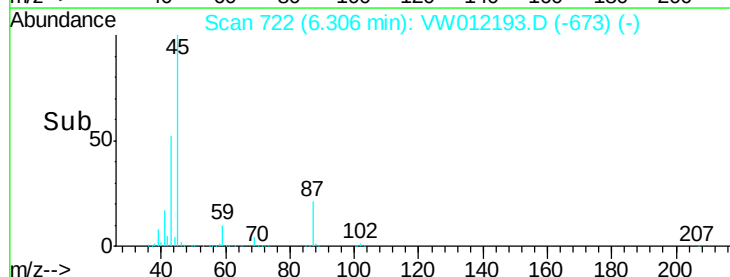
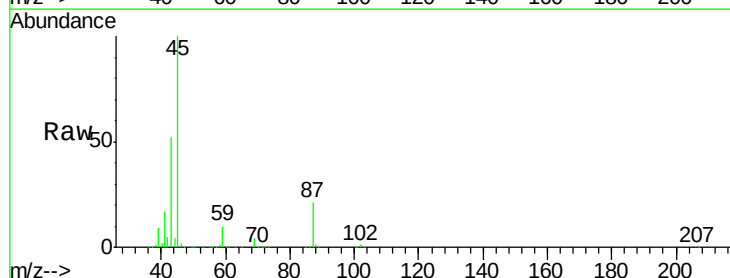
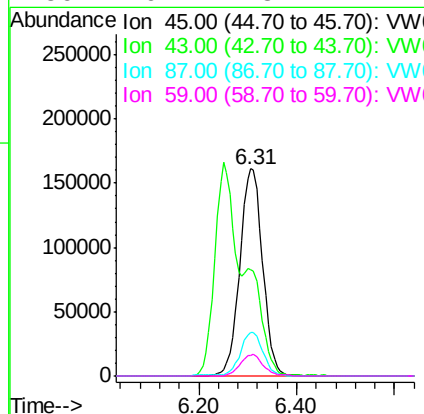
Ion Ratio Lower Upper

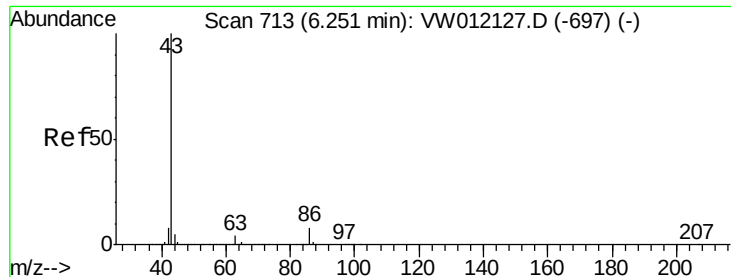
45 100

43 51.5 45.5 68.3

87 21.1 16.1 24.1

59 10.2 8.2 12.2





#23

Vinyl Acetate

Concen: 95.215 ug/l

RT: 6.25 min Scan# 713

Delta R.T. -0.00 min

Lab File: VW012193.D

Acq: 27 Aug 2019 01:07

Instrument :

MSVOA_W

ClientSampleId :

S602-M-1.0-1.5-082319MSD

Tot Ion: 43 Resp: 484671

Ion Ratio Lower Upper

43 100

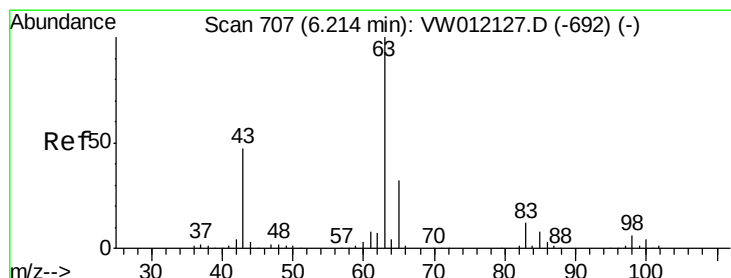
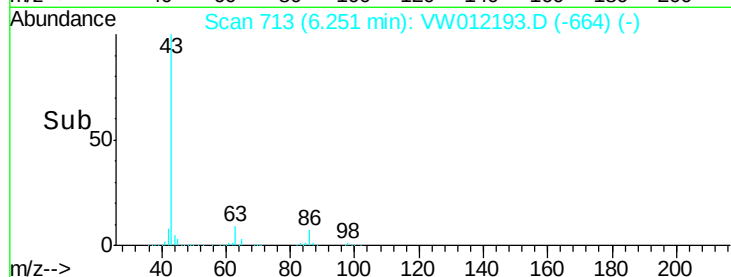
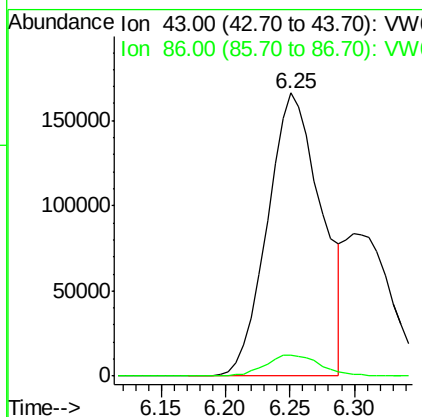
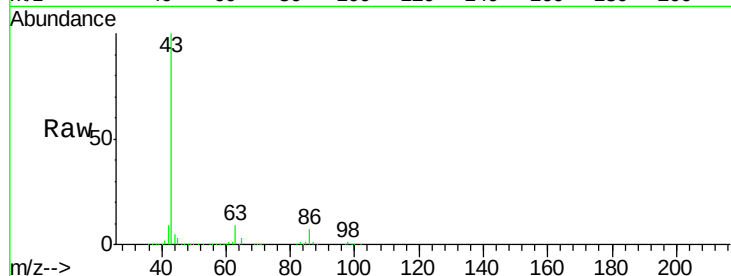
86 7.5 6.5 9.7

Manual Integrations

APPROVED

MMDadoda

8/27/2019 11:04:41 AM



#24

1,1-Dichloroethane

Concen: 60.502 ug/l

RT: 6.21 min Scan# 706

Delta R.T. -0.01 min

Lab File: VW012193.D

Acq: 27 Aug 2019 01:07

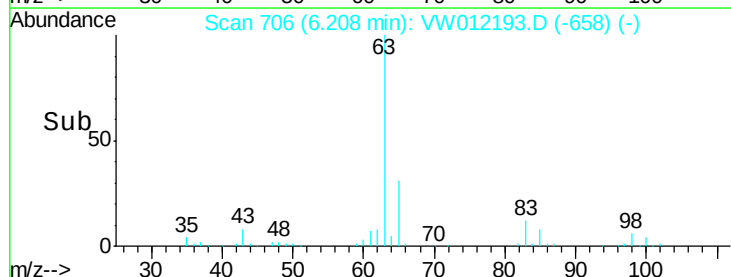
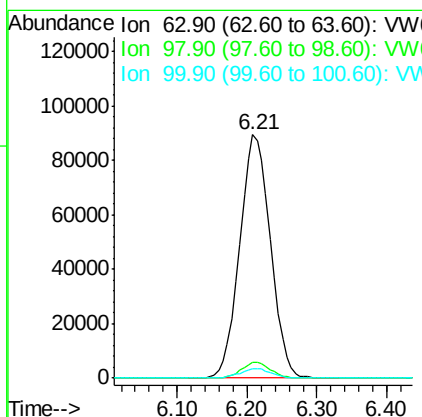
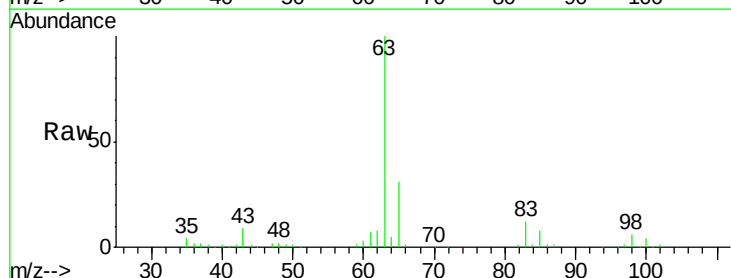
Tgt Ion: 63 Resp: 272477

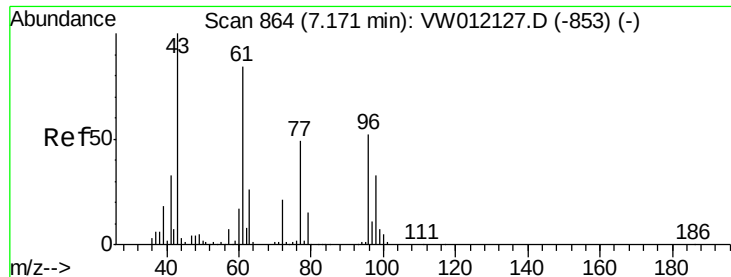
Ion Ratio Lower Upper

63 100

98 6.4 3.0 9.2

100 3.8 2.0 6.0





#25

2-Butanone

Concen: 334.188 ug/l

RT: 7.17 min Scan# 863

Delta R.T. -0.01 min

Lab File: VW012193.D

Acq: 27 Aug 2019 01:07

Instrument :

MSVOA_W

ClientSampleId :

S602-M-1.0-1.5-082319MSD

Tot Ion: 43 Resp: 287160

Ion Ratio Lower Upper

43 100

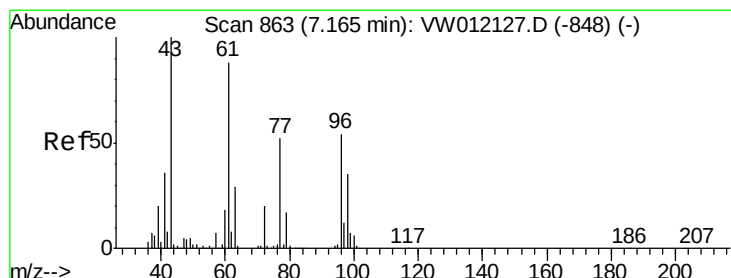
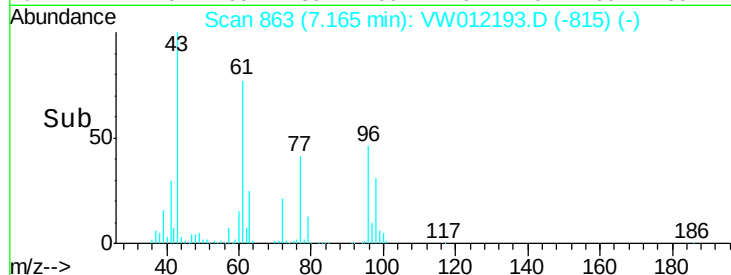
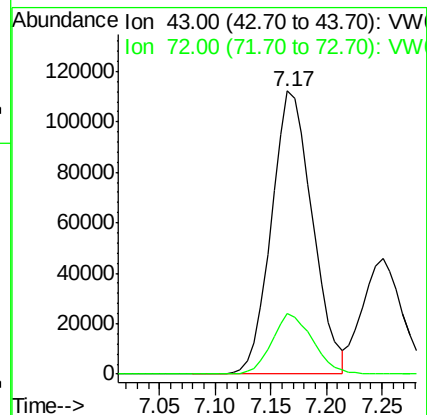
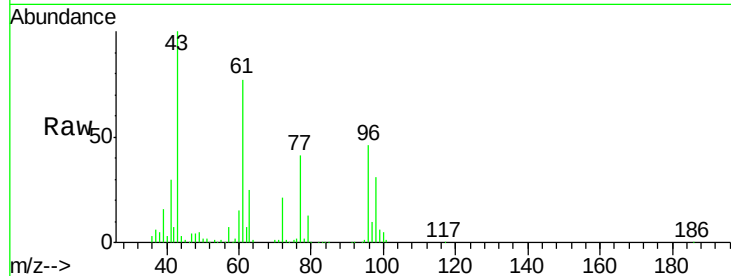
72 21.3 16.6 24.8

Manual Integrations

APPROVED

MMDadoda

8/27/2019 11:04:41 AM



#26

2,2-Dichloropropane

Concen: 52.502 ug/l

RT: 7.17 min Scan# 863

Delta R.T. -0.00 min

Lab File: VW012193.D

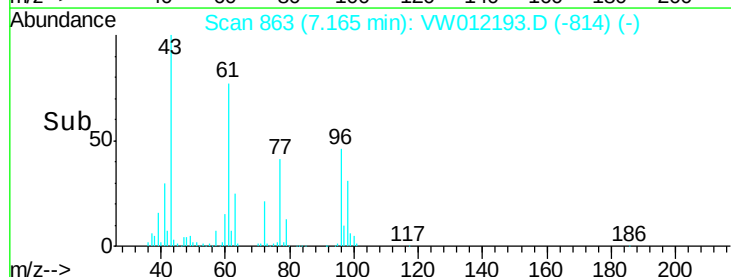
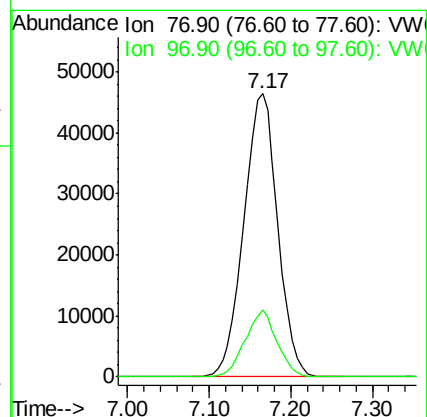
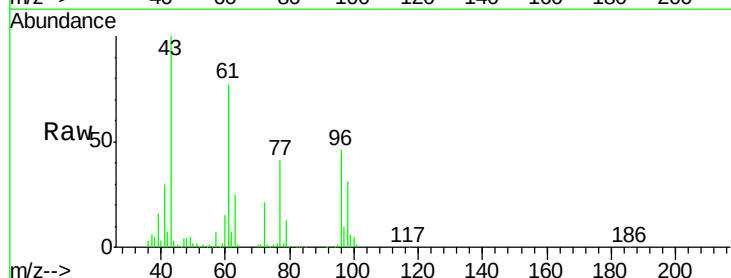
Acq: 27 Aug 2019 01:07

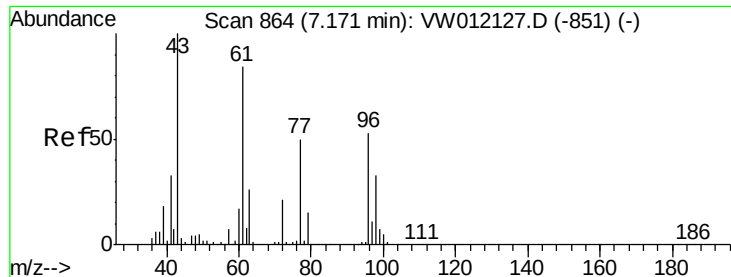
Tgt Ion: 77 Resp: 133833

Ion Ratio Lower Upper

77 100

97 22.2 11.1 33.1





#27

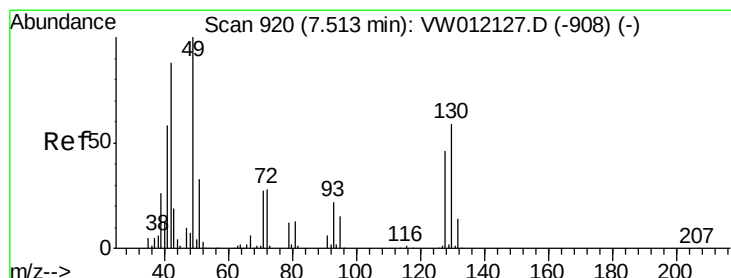
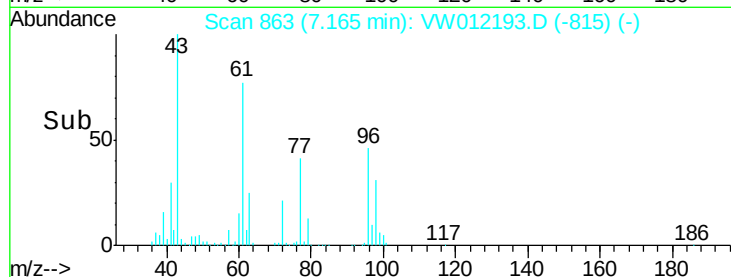
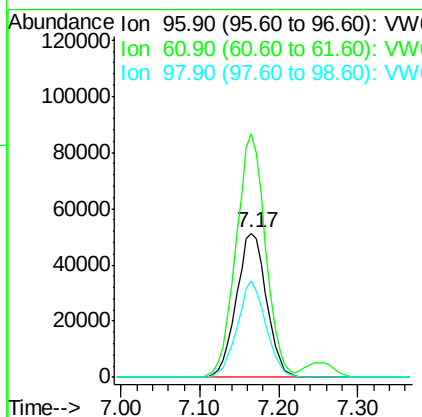
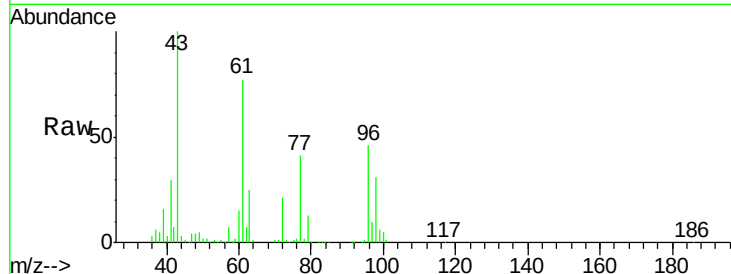
cis-1,2-Dichloroethene
Concen: 56.839 ug/l
RT: 7.17 min Scan# 863
Delta R.T. -0.01 min
Lab File: VW012193.D
Acq: 27 Aug 2019 01:07

Instrument :
MSVOA_W
ClientSampleId :
S602-M-1.0-1.5-082319MSD

Tot Ion	Ratio	Resp	Lower	Upper
96	100			
61	165.3	0.0	326.6	
98	63.8	0.0	127.4	

Manual Integrations
APPROVED

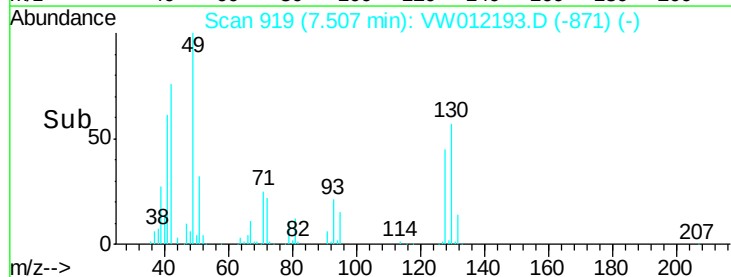
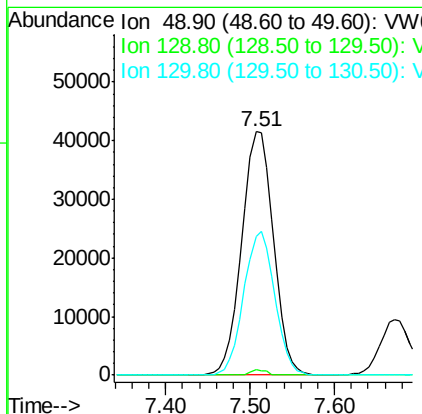
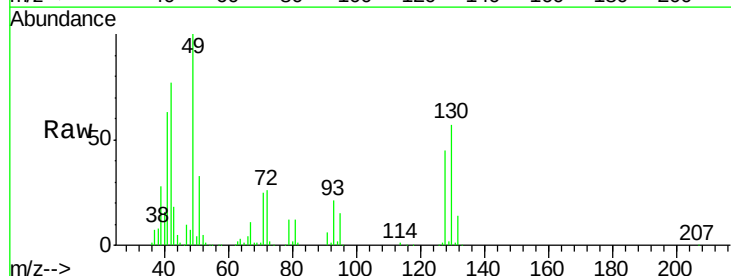
MMDadoda
8/27/2019 11:04:41 AM

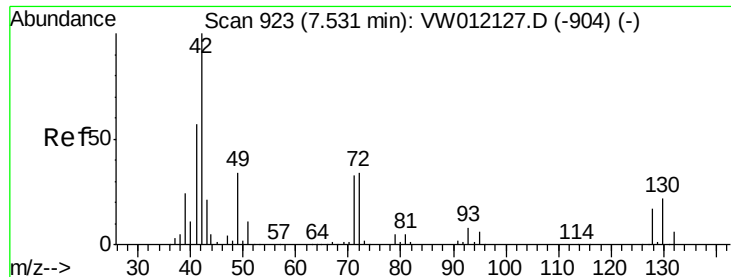


#28

Bromochloromethane
Concen: 53.874 ug/l
RT: 7.51 min Scan# 919
Delta R.T. -0.01 min
Lab File: VW012193.D
Acq: 27 Aug 2019 01:07

Tgt Ion	Ratio	Resp	Lower	Upper
49	100			
129	1.0	0.0	1.4	
130	57.8	45.5	68.3	





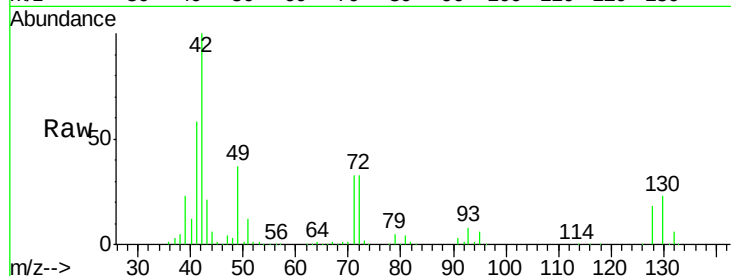
#29
Tetrahydrofuran
Concen: 370.316 ug/l
RT: 7.52 min Scan# 922
Delta R.T. -0.01 min
Lab File: VW012193.D
Acq: 27 Aug 2019 01:07

Instrument :
MSVOA_W
ClientSampleId :
S602-M-1.0-1.5-082319MSD

Tot Ion	Ratio	Resp	Lower	Upper
42	100	190909		
72	33.6		27.3	40.9
71	32.4		25.5	38.3

Manual Integrations
APPROVED

MMDadoda
8/27/2019 11:04:41 AM

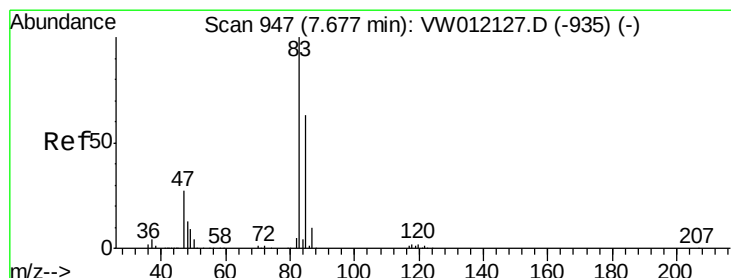
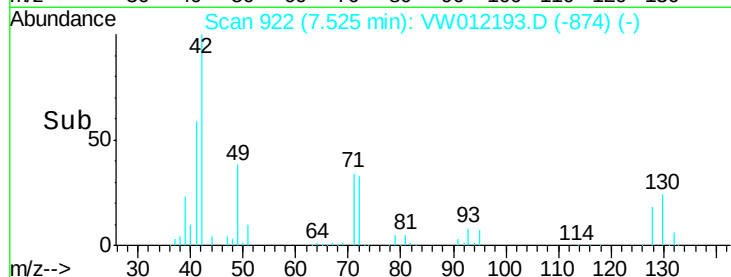
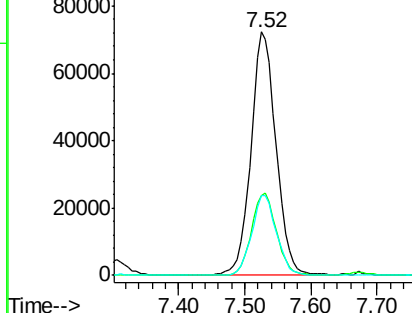


Abundance

Ion 42.00 (41.70 to 42.70): VW

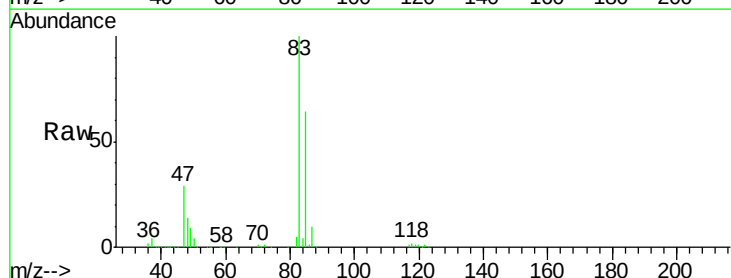
Ion 72.00 (71.70 to 72.70): VW

Ion 71.00 (70.70 to 71.70): VW



#30
Chloroform
Concen: 59.502 ug/l
RT: 7.67 min Scan# 946
Delta R.T. -0.01 min
Lab File: VW012193.D
Acq: 27 Aug 2019 01:07

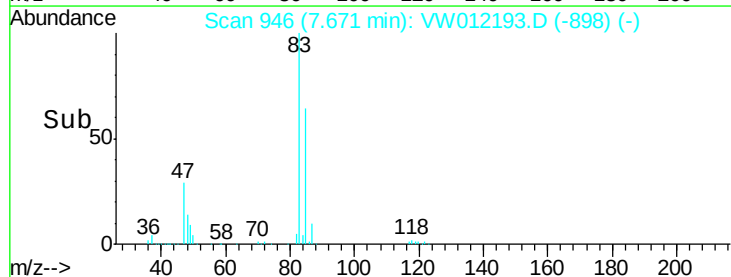
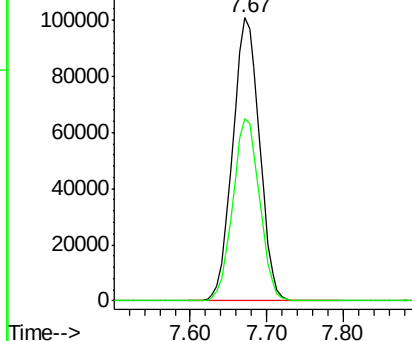
Tgt Ion	Ratio	Resp	Lower	Upper
83	100	245166		
85	64.2		50.6	76.0

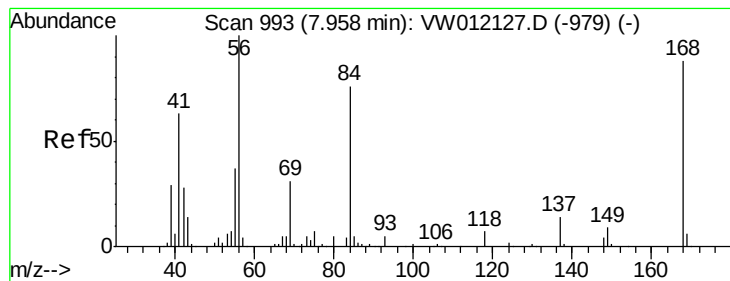


Abundance

Ion 82.90 (82.60 to 83.60): VW

Ion 84.90 (84.60 to 85.60): VW





#31

Cyclohexane

Concen: 49.916 ug/l

RT: 7.95 min Scan# 992

Delta R.T. -0.01 min

Lab File: VW012193.D

Acq: 27 Aug 2019 01:07

Instrument :

MSVOA_W

ClientSampleId :

S602-M-1.0-1.5-082319MSD

Tot Ion: 56 Resp: 222412

Ion Ratio Lower Upper

56 100

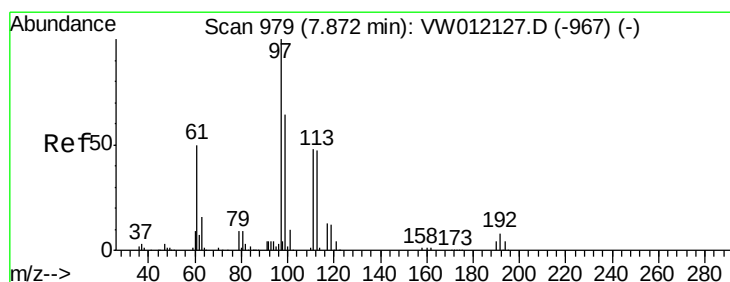
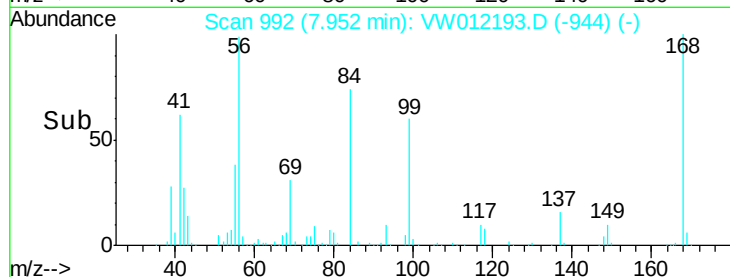
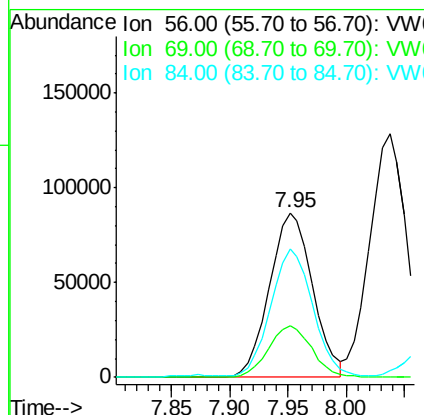
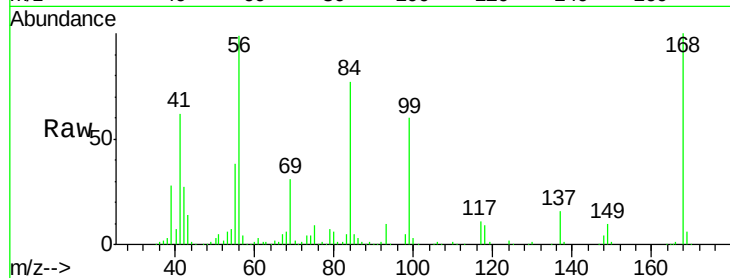
69 31.4 24.9 37.3

84 76.5 60.6 90.8

Manual Integrations
APPROVED

MMDadoda

8/27/2019 11:04:41 AM



#32

1,1,1-Trichloroethane

Concen: 59.236 ug/l

RT: 7.87 min Scan# 978

Delta R.T. -0.01 min

Lab File: VW012193.D

Acq: 27 Aug 2019 01:07

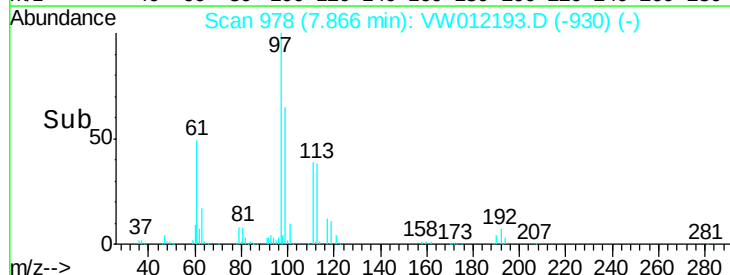
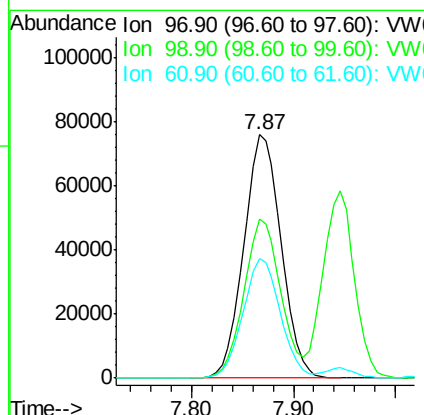
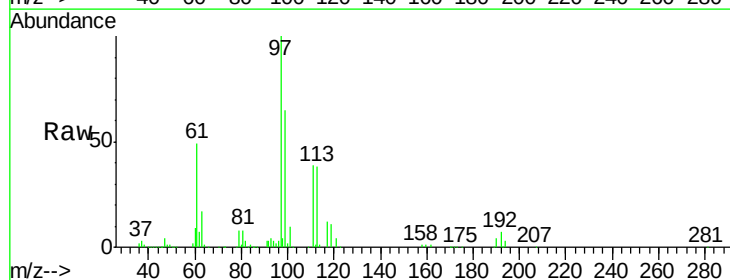
Tgt Ion: 97 Resp: 193079

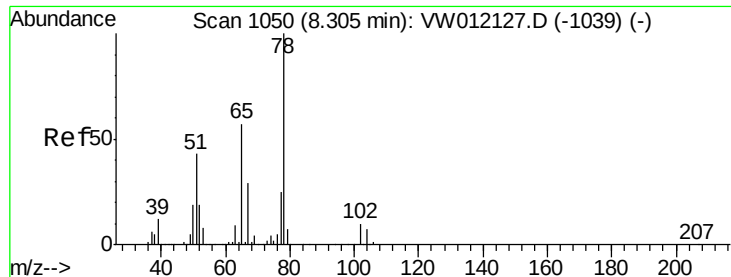
Ion Ratio Lower Upper

97 100

99 64.7 51.4 77.0

61 49.4 39.5 59.3





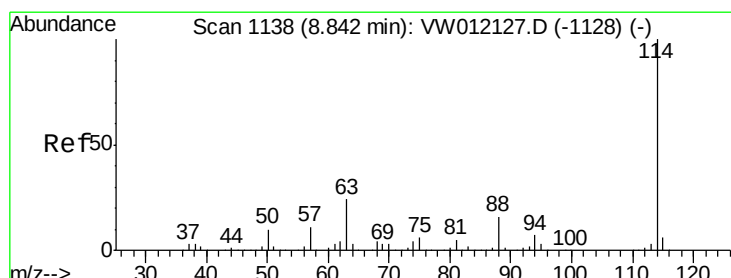
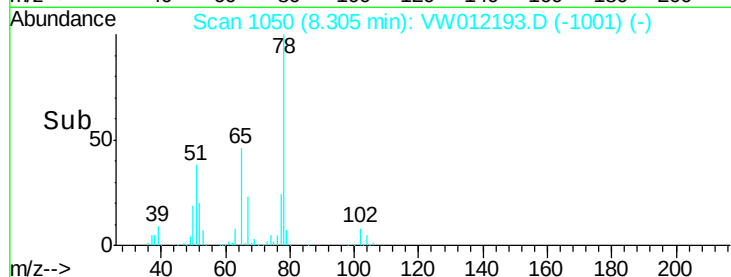
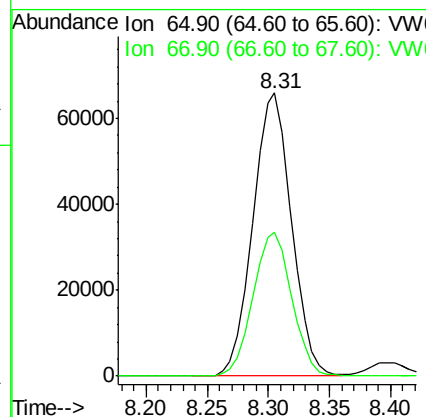
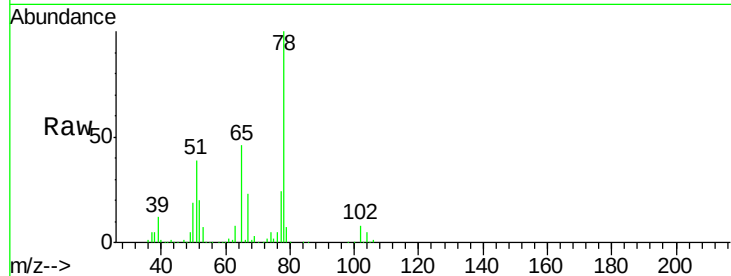
#33
 1,2-Dichloroethane-d4
 Concen: 58.542 ug/l
 RT: 8.31 min Scan# 1050
 Delta R.T. -0.00 min
 Lab File: VW012193.D
 Acq: 27 Aug 2019 01:07

Instrument :
 MSVOA_W
 ClientSampleId :
 S602-M-1.0-1.5-082319MSD

Tot Ion	Ratio	Resp	Lower	Upper
65	100	144817		
67	50.9	0.0	102.6	

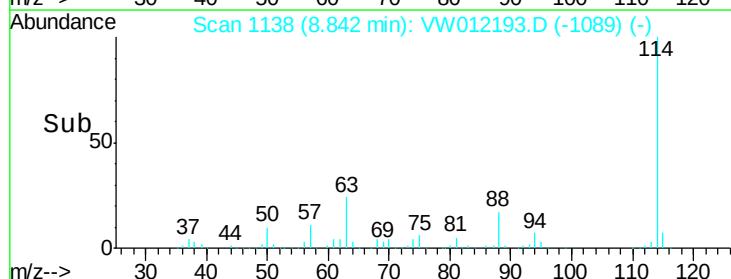
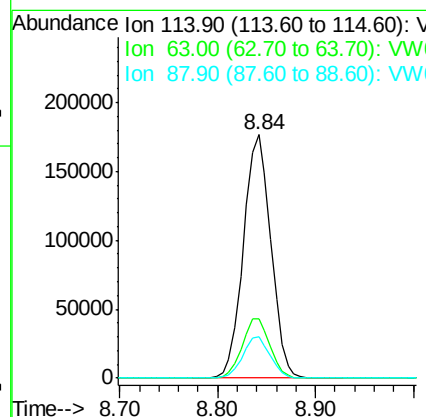
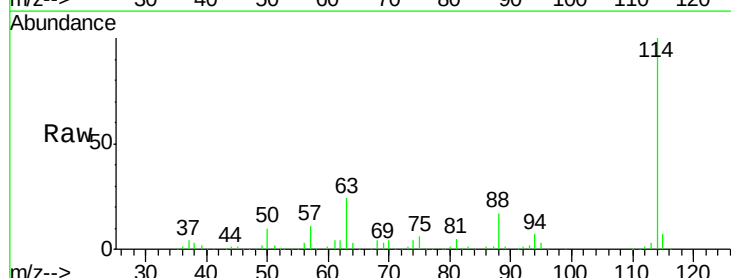
Manual Integrations
 APPROVED

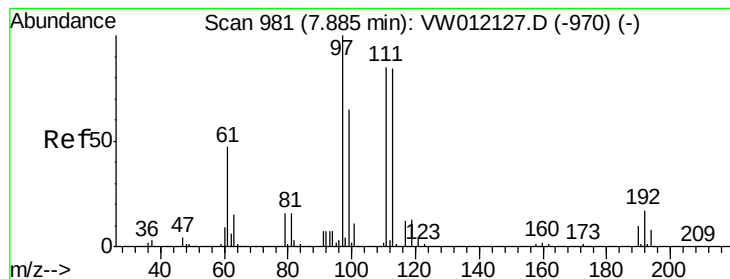
MMDadoda
 8/27/2019 11:04:41 AM



#34
 1,4-Difluorobenzene
 Concen: 50.000 ug/l
 RT: 8.84 min Scan# 1138
 Delta R.T. -0.00 min
 Lab File: VW012193.D
 Acq: 27 Aug 2019 01:07

Tgt Ion	Ratio	Resp	Lower	Upper
114	100	344238		
63	24.2	0.0	48.6	
88	17.2	0.0	32.2	





#35

Dibromofluoromethane

Concen: 55.103 ug/l

RT: 7.88 min Scan# 981

Delta R.T. -0.00 min

Lab File: VW012193.D

Acq: 27 Aug 2019 01:07

Instrument :

MSVOA_W

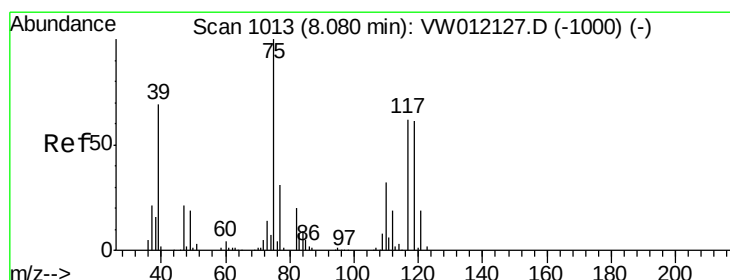
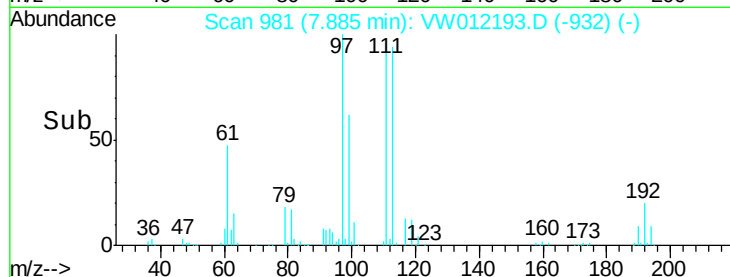
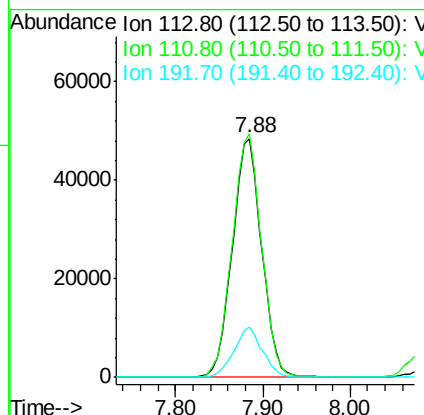
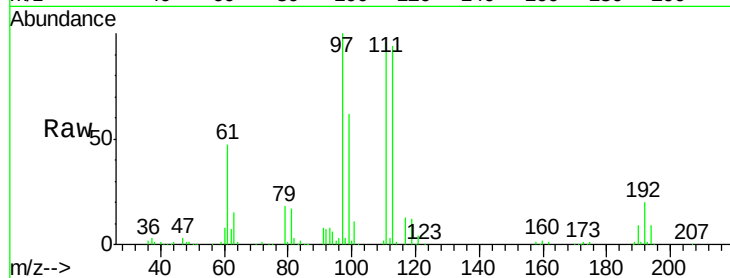
ClientSampleId :

S602-M-1.0-1.5-082319MSD

Tot Ion:	113	Resp:	113223
Ion Ratio	Lower	Upper	
113	100		
111	101.8	82.7	124.1
192	20.3	16.2	24.2

Manual Integrations
APPROVED

MMDadoda
8/27/2019 11:04:41 AM



#36

1,1-Dichloropropene

Concen: 50.194 ug/l

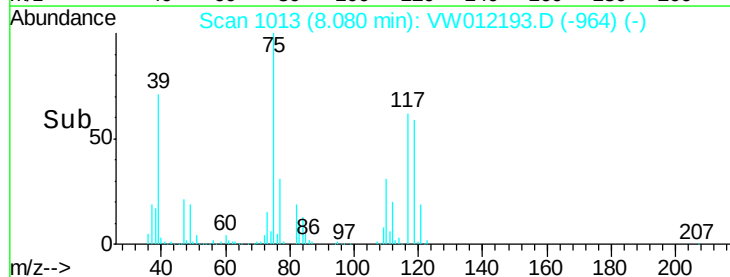
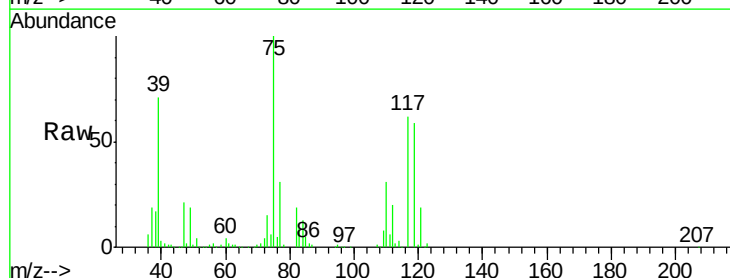
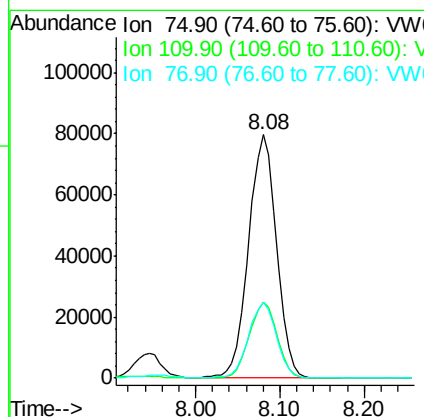
RT: 8.08 min Scan# 1013

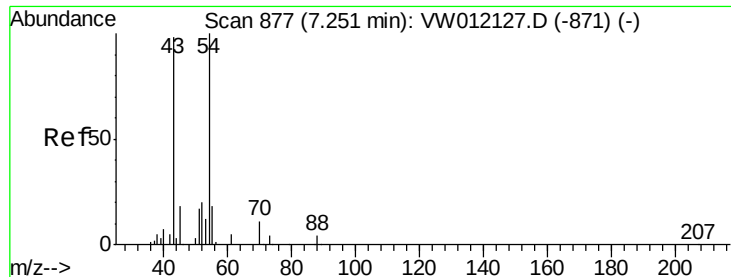
Delta R.T. -0.00 min

Lab File: VW012193.D

Acq: 27 Aug 2019 01:07

Tgt Ion:	75	Resp:	178556
Ion Ratio	Lower	Upper	
75	100		
110	31.1	15.6	46.8
77	31.2	24.6	36.8





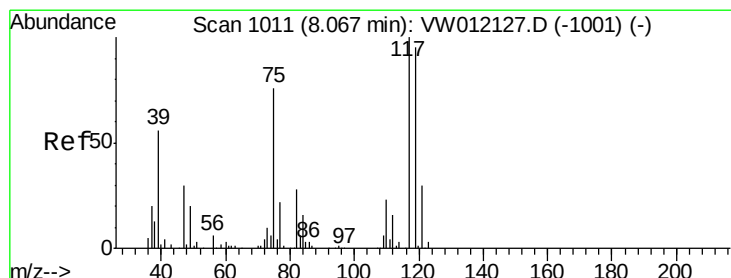
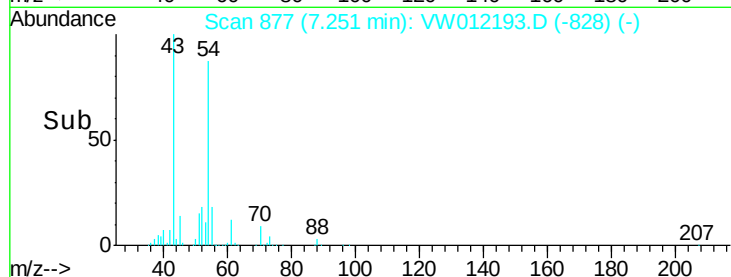
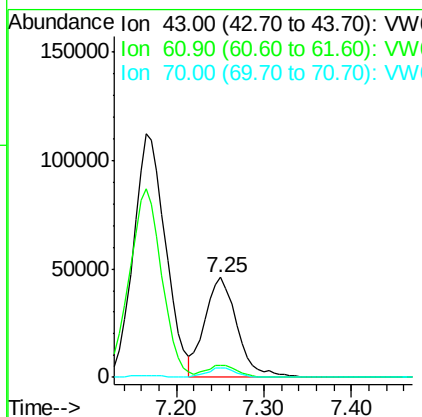
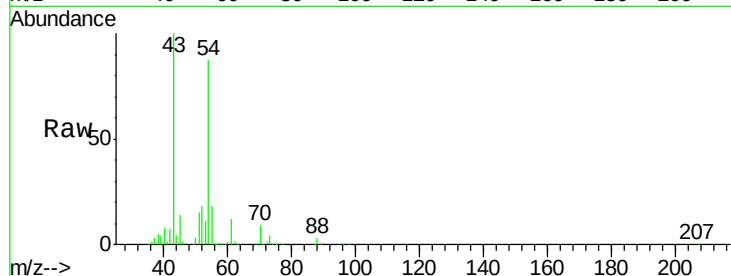
#37
Ethyl Acetate
Concen: 60.347 ug/l
RT: 7.25 min Scan# 877
Delta R.T. -0.00 min
Lab File: VW012193.D
Acq: 27 Aug 2019 01:07

Instrument :
MSVOA_W
ClientSampleId :
S602-M-1.0-1.5-082319MSD

Tot Ion	Ratio	Resp	Lower	Upper
43	100			
61	11.3	9.2	13.8	
70	8.7	6.9	10.3	

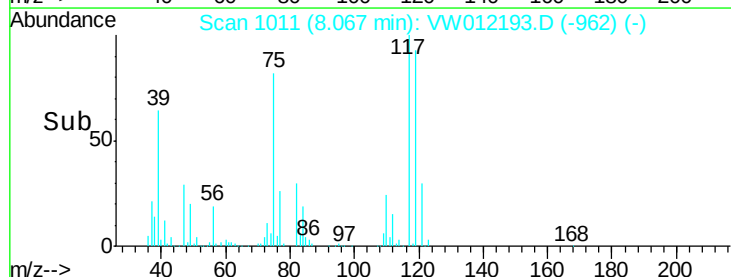
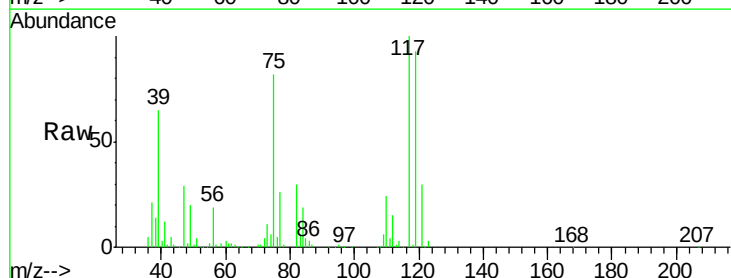
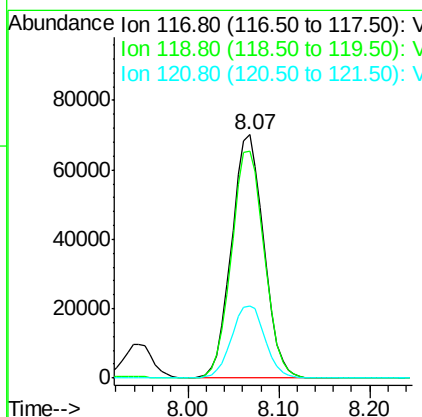
Manual Integrations
APPROVED

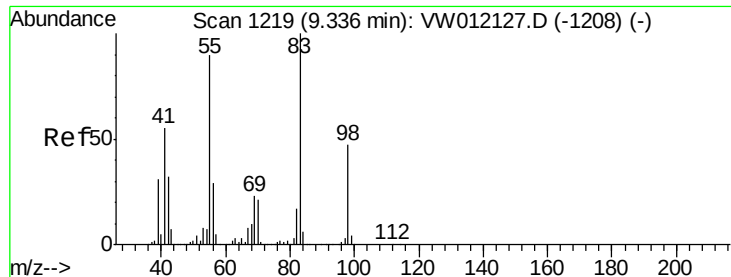
MMDadoda
8/27/2019 11:04:41 AM



#38
Carbon Tetrachloride
Concen: 56.210 ug/l
RT: 8.07 min Scan# 1011
Delta R.T. -0.00 min
Lab File: VW012193.D
Acq: 27 Aug 2019 01:07

Tgt Ion	Ratio	Resp	Lower	Upper
117	100			
119	93.4	76.2	114.2	
121	29.7	23.8	35.8	





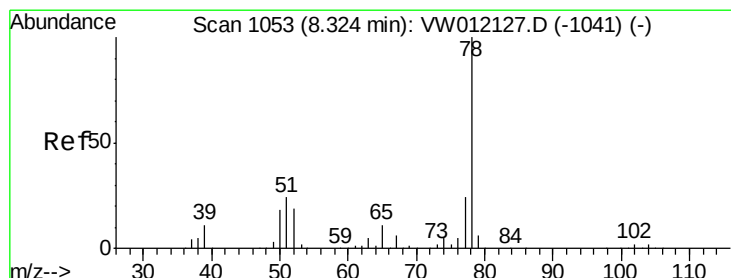
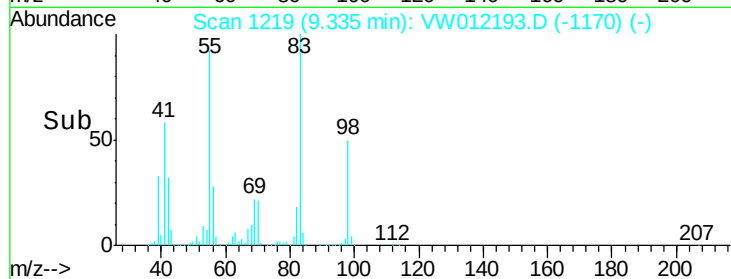
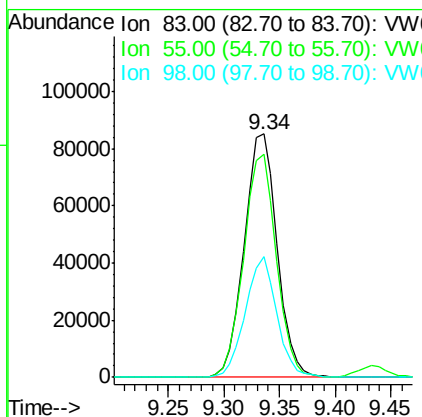
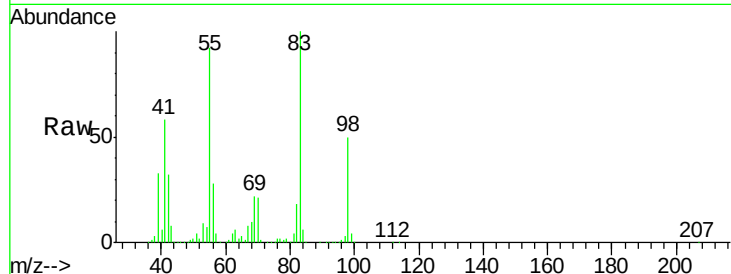
#39
Methylvlcyclohexane
Concen: 44.039 ug/l
RT: 9.34 min Scan# 1219
Delta R.T. -0.00 min
Lab File: VW012193.D
Acq: 27 Aug 2019 01:07

Instrument :
MSVOA_W
ClientSampleId :
S602-M-1.0-1.5-082319MSD

Tot Ion	Ratio	Lower	Upper
83	100		
55	91.8	71.8	107.8
98	49.7	37.8	56.8

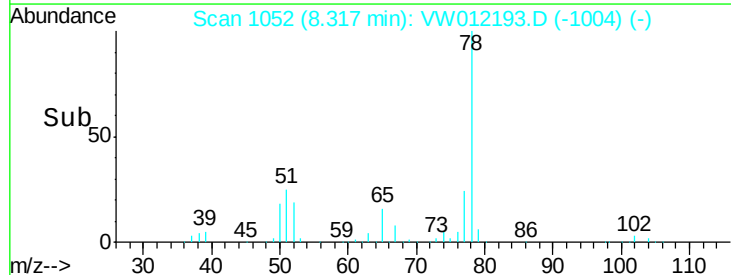
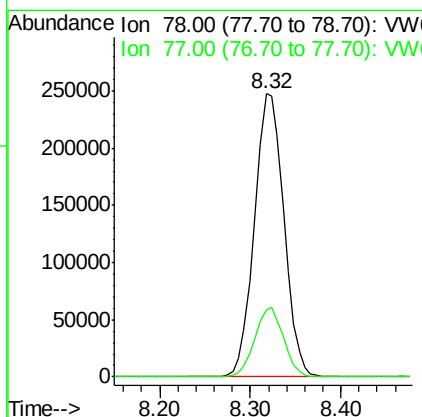
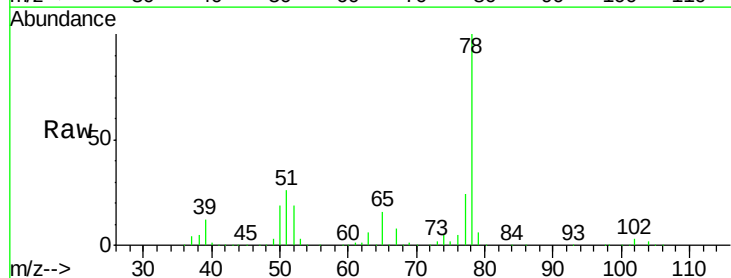
Manual Integrations
APPROVED

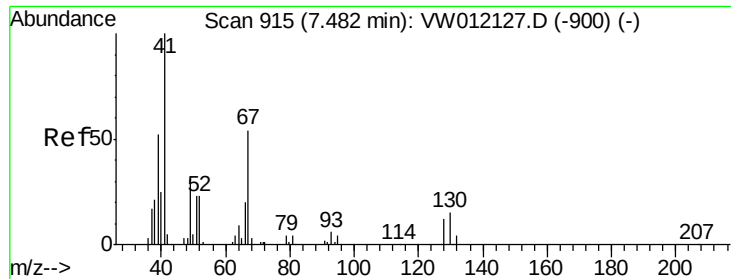
MMDadoda
8/27/2019 11:04:41 AM



#40
Benzene
Concen: 57.267 ug/l
RT: 8.32 min Scan# 1052
Delta R.T. -0.01 min
Lab File: VW012193.D
Acq: 27 Aug 2019 01:07

Tgt Ion	Ratio	Lower	Upper
78	100		
77	23.7	19.5	29.3





#41

Methacrylonitrile

Concen: 67.219 ug/l

RT: 7.48 min Scan# 915

Delta R.T. -0.00 min

Lab File: VW012193.D

Acq: 27 Aug 2019 01:07

Instrument :

MSVOA_W

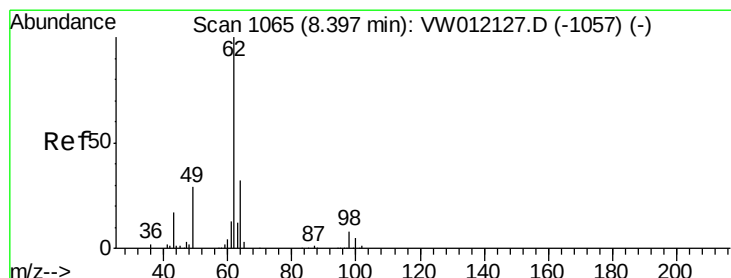
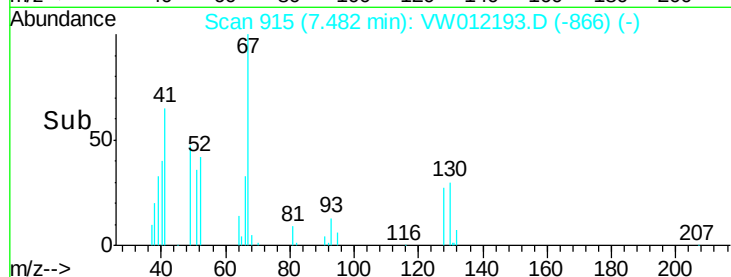
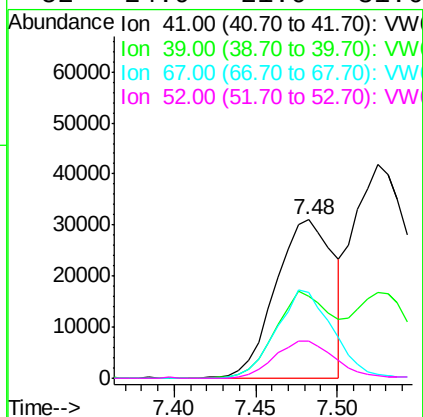
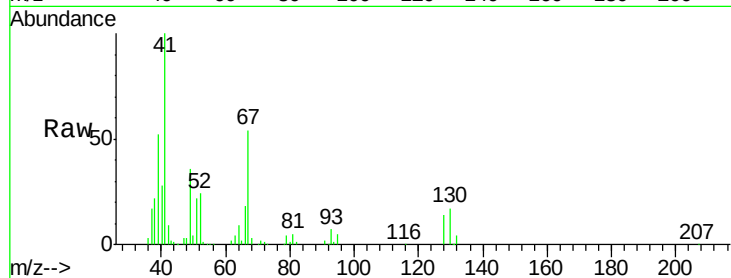
ClientSampleId :

S602-M-1.0-1.5-082319MSD

Tot Ion	Ratio	Lower	Upper
41	100		
39	52.0	45.8	68.8
67	54.9	46.2	69.4
52	24.9	21.0	31.6

Manual Integrations
APPROVED

MMDadoda
8/27/2019 11:04:41 AM



#42

1,2-Dichloroethane

Concen: 59.126 ug/l

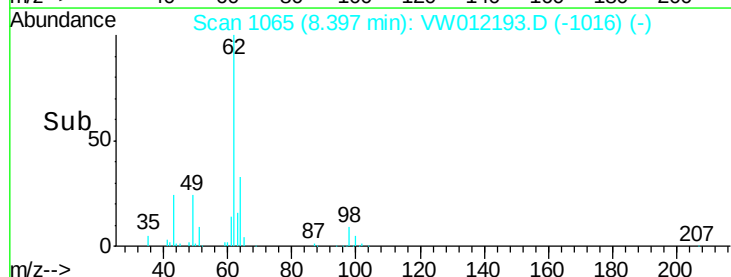
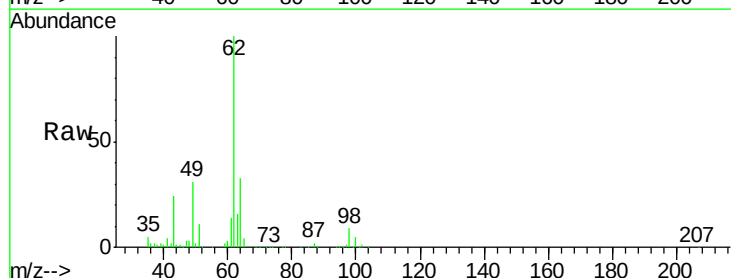
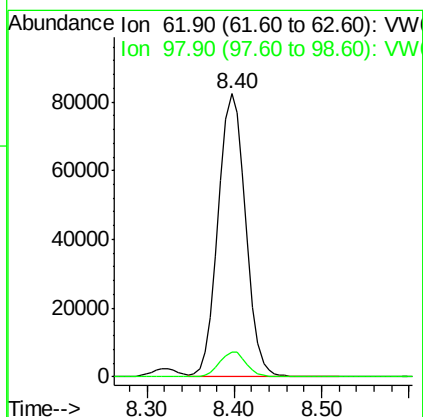
RT: 8.40 min Scan# 1065

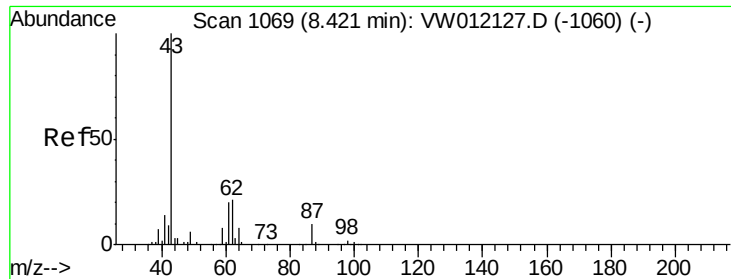
Delta R.T. -0.00 min

Lab File: VW012193.D

Acq: 27 Aug 2019 01:07

Tgt Ion	Ratio	Lower	Upper
62	100		
98	8.4	0.0	16.6





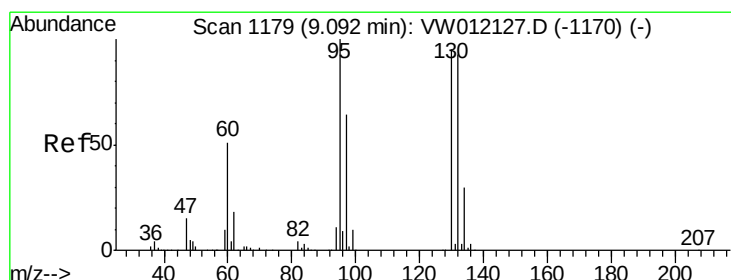
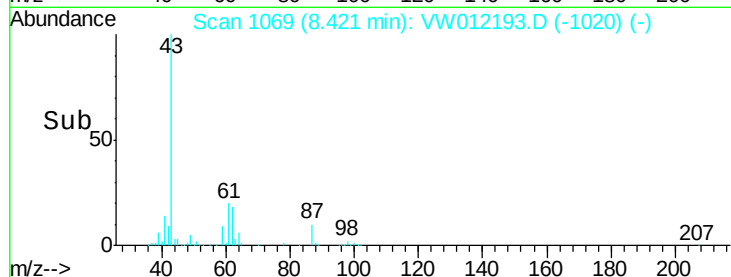
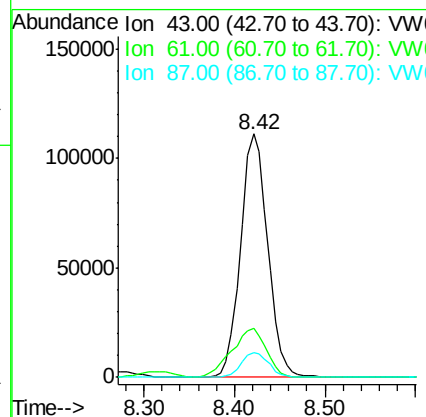
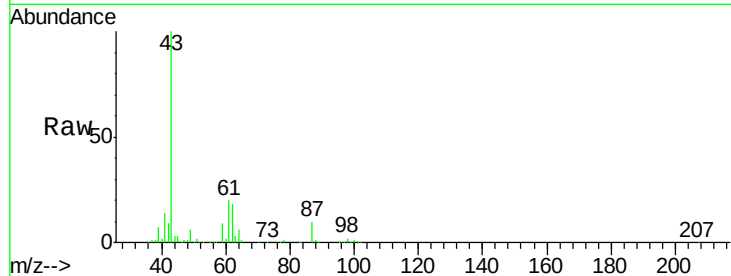
#43
Isopropyl Acetate
Concen: 63.723 ug/l
RT: 8.42 min Scan# 1069
Delta R.T. -0.00 min
Lab File: VW012193.D
Acq: 27 Aug 2019 01:07

Instrument :
MSVOA_W
ClientSampleId :
S602-M-1.0-1.5-082319MSD

Tot Ion	43	Resp	230091
Ion	Ratio	Lower	Upper
43	100		
61	26.2	21.1	31.7
87	10.4	8.2	12.2

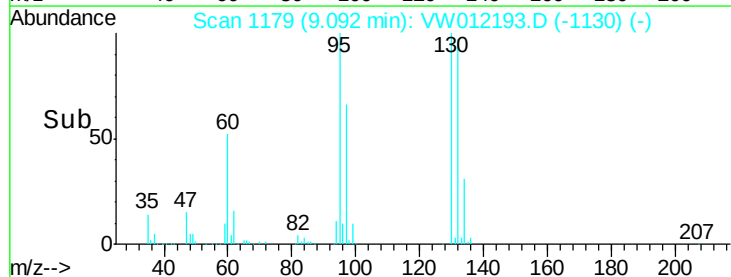
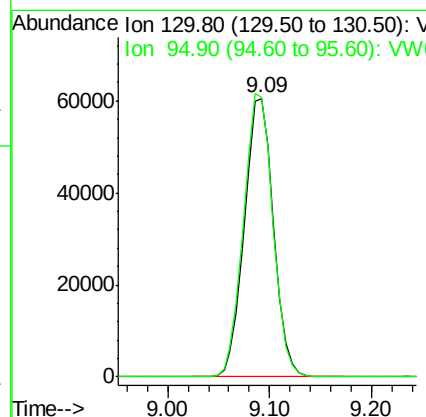
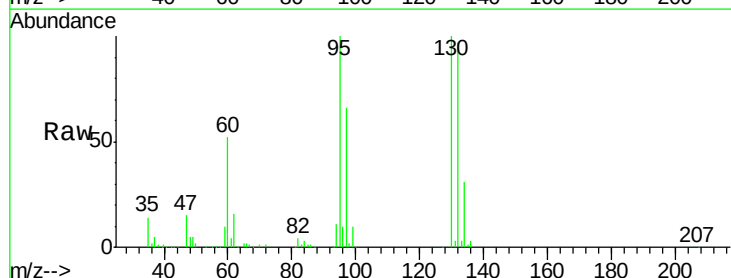
Manual Integrations
APPROVED

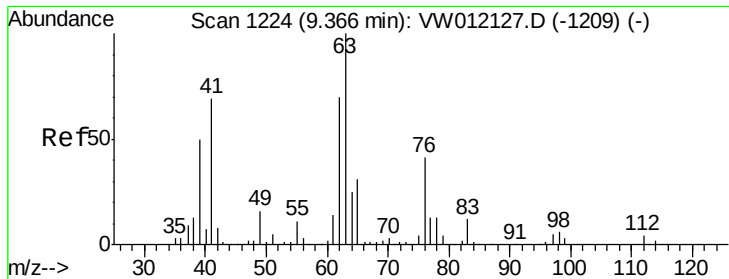
MMDadoda
8/27/2019 11:04:41 AM



#44
Trichloroethene
Concen: 50.795 ug/l
RT: 9.09 min Scan# 1179
Delta R.T. -0.00 min
Lab File: VW012193.D
Acq: 27 Aug 2019 01:07

Tgt Ion	130	Resp	119942
Ion	Ratio	Lower	Upper
130	100		
95	100.2	0.0	210.6





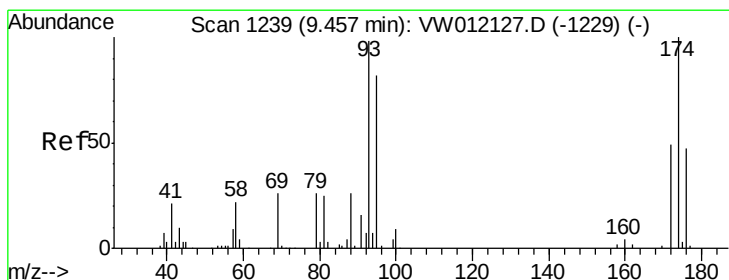
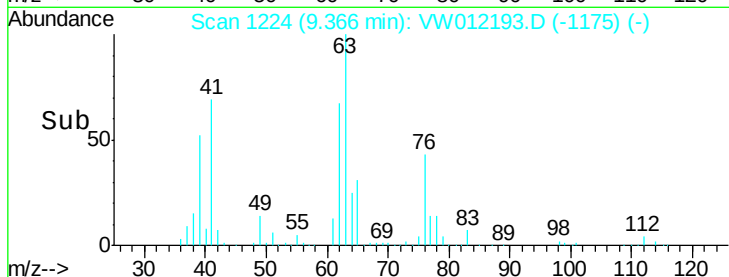
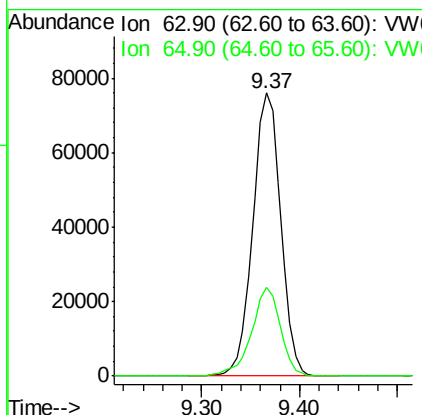
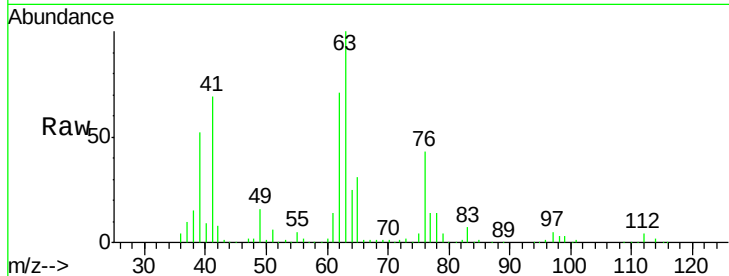
#45
 1,2-Dichloropropane
 Concen: 58.005 ug/l
 RT: 9.37 min Scan# 1224
 Delta R.T. -0.00 min
 Lab File: VW012193.D
 Acq: 27 Aug 2019 01:07

Instrument :
 MSVOA_W
 ClientSampleId :
 S602-M-1.0-1.5-082319MSD

Tot Ion	Ratio	Lower	Upper
63	100		
65	31.3	25.0	37.4

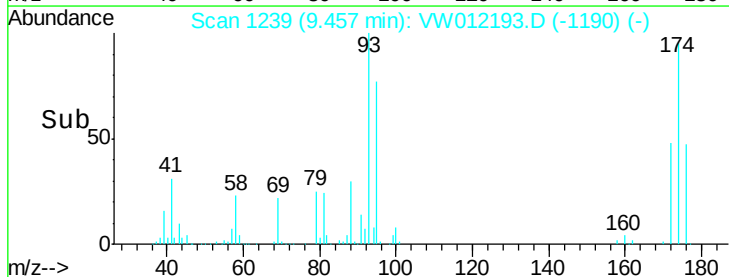
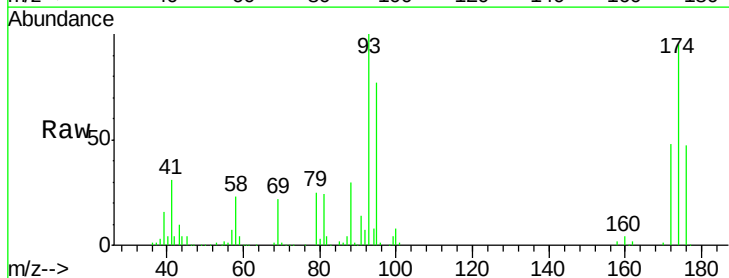
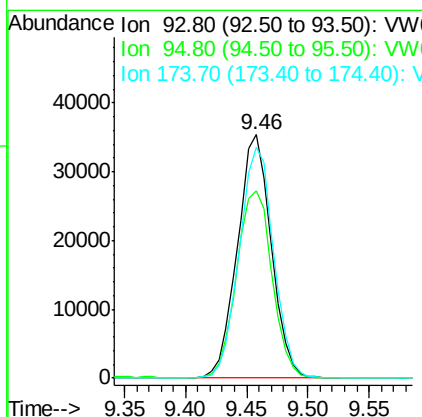
Manual Integrations
 APPROVED

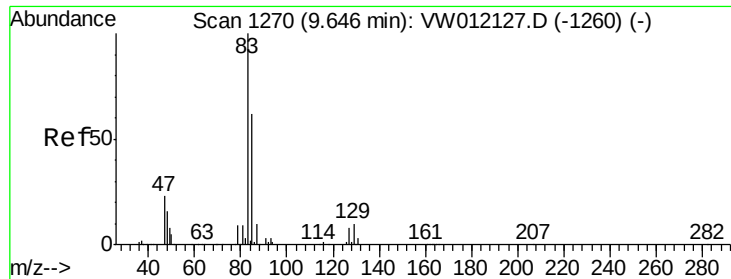
MMDadoda
 8/27/2019 11:04:41 AM



#46
 Dibromomethane
 Concen: 58.458 ug/l
 RT: 9.46 min Scan# 1239
 Delta R.T. -0.00 min
 Lab File: VW012193.D
 Acq: 27 Aug 2019 01:07

Tgt Ion	Ratio	Lower	Upper
93	100		
95	80.8	67.2	100.8
174	96.4	79.0	118.6





#47

Bromodichloromethane

Concen: 57.909 ug/l

RT: 9.64 min Scan# 1269

Delta R.T. -0.01 min

Lab File: VW012193.D

Acq: 27 Aug 2019 01:07

Instrument :

MSVOA_W

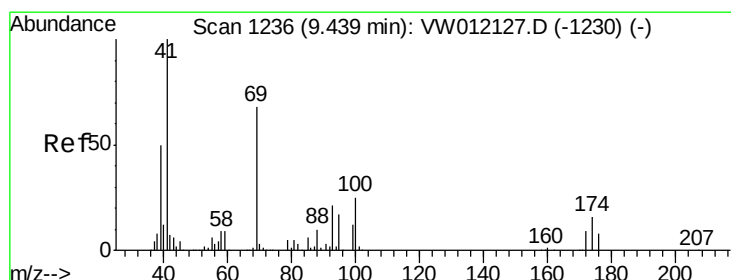
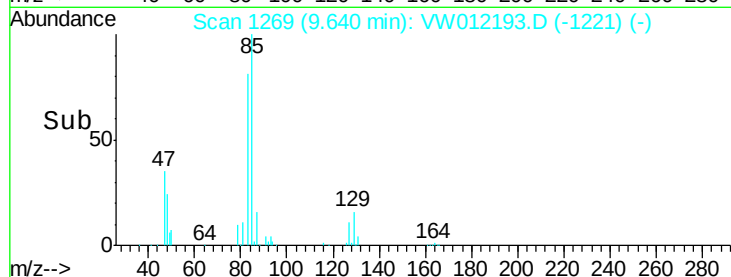
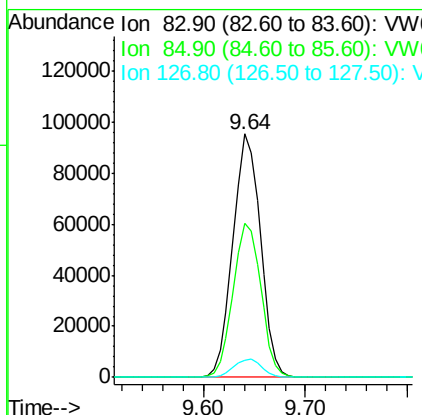
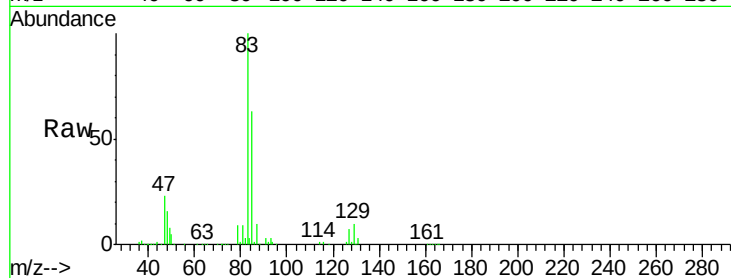
ClientSampleId :

S602-M-1.0-1.5-082319MSD

Tot Ion	83	Resp	179262
Ion Ratio	Lower	Upper	
83	100		
85	63.1	49.4	74.2
127	7.1	6.1	9.1

Manual Integrations
APPROVED

MMDadoda
8/27/2019 11:04:41 AM



#48

Methyl methacrylate

Concen: 66.196 ug/l

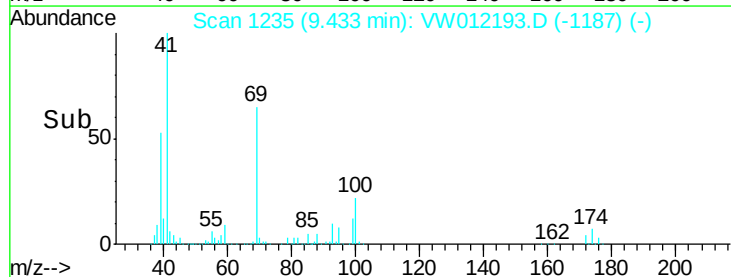
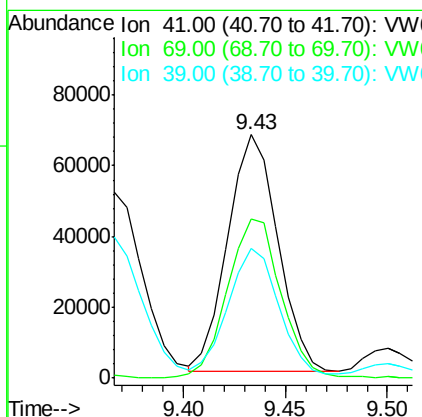
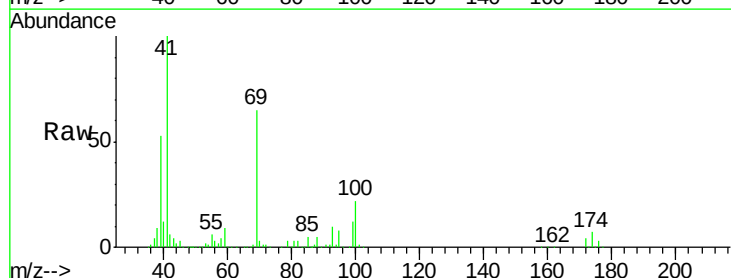
RT: 9.43 min Scan# 1235

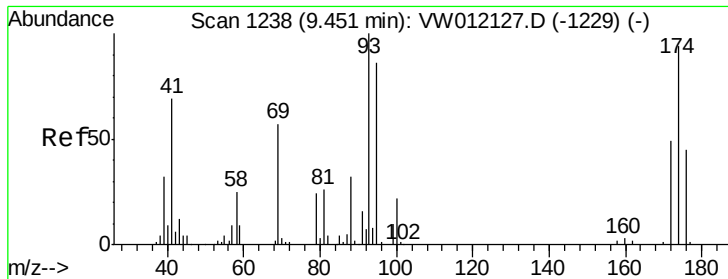
Delta R.T. -0.01 min

Lab File: VW012193.D

Acq: 27 Aug 2019 01:07

Tgt Ion	41	Resp	113762
Ion Ratio	Lower	Upper	
41	100		
69	72.6	56.7	85.1
39	57.2	42.0	63.0





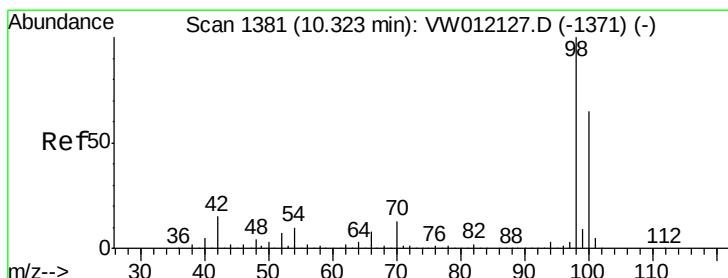
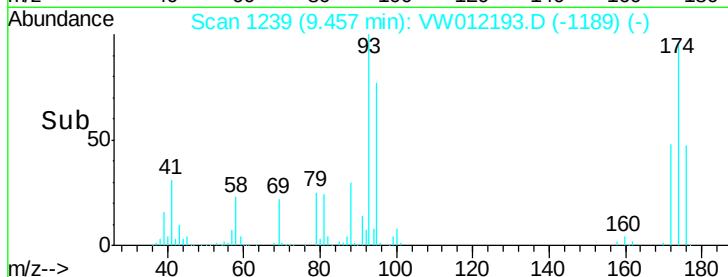
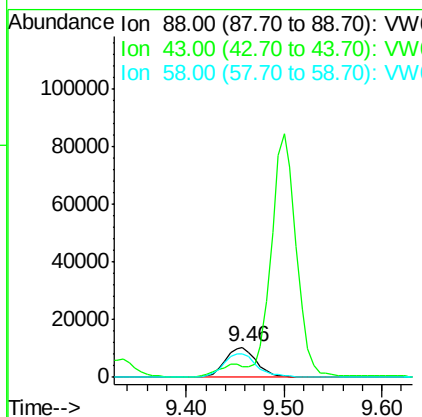
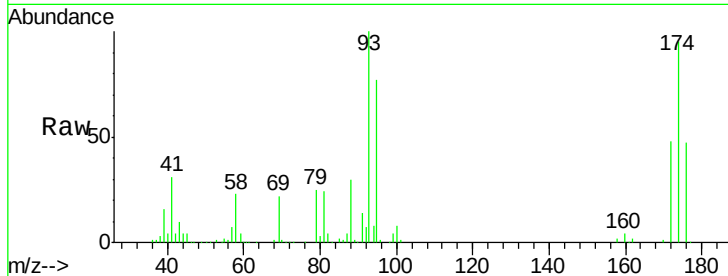
#49
1,4-Dioxane
Concen: 1309.659 ug/l
RT: 9.46 min Scan# 1239
Delta R.T. 0.01 min
Lab File: VW012193.D
Acq: 27 Aug 2019 01:07

Instrument :
MSVOA_W
ClientSampleId :
S602-M-1.0-1.5-082319MSD

Tot Ion	88	Resp	23320
Ion	Ratio	Lower	Upper
88	100		
43	39.1	32.9	49.3
58	86.3	71.0	106.4

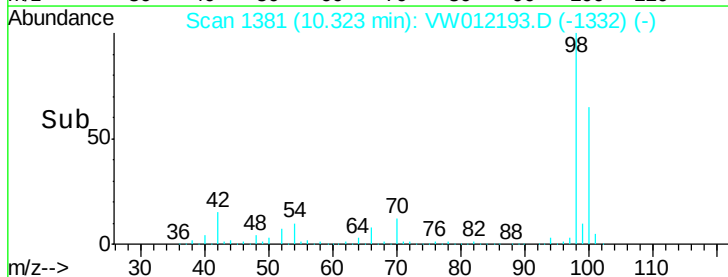
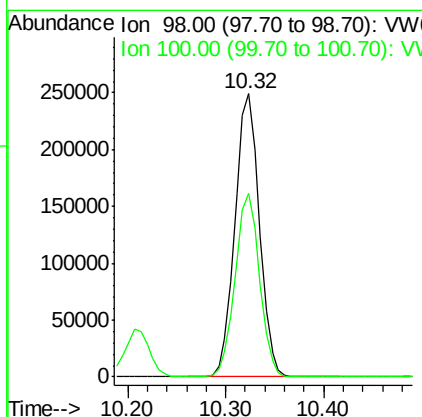
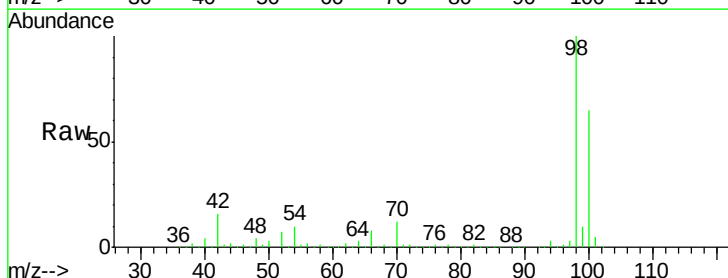
Manual Integrations
APPROVED

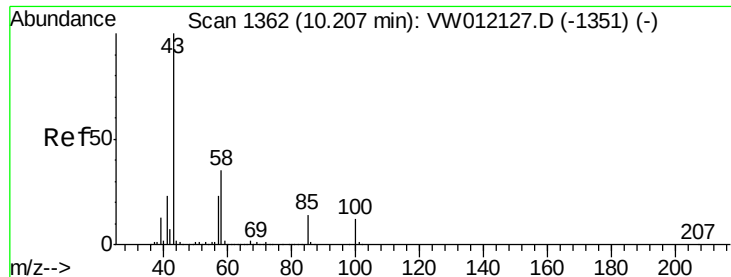
MMDadoda
8/27/2019 11:04:41 AM



#50
Toluene-d8
Concen: 51.872 ug/l
RT: 10.32 min Scan# 1381
Delta R.T. -0.00 min
Lab File: VW012193.D
Acq: 27 Aug 2019 01:07

Tgt Ion	98	Resp	432167
Ion	Ratio	Lower	Upper
98	100		
100	64.6	52.4	78.6





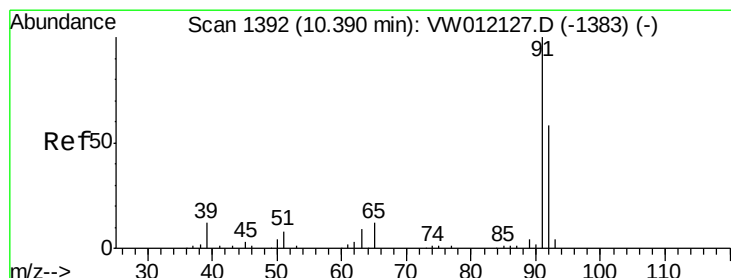
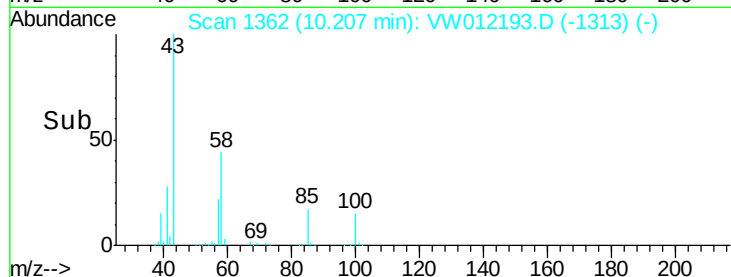
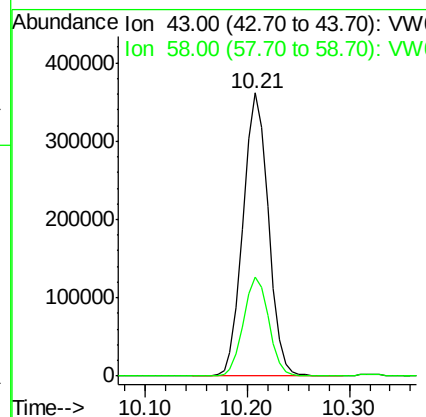
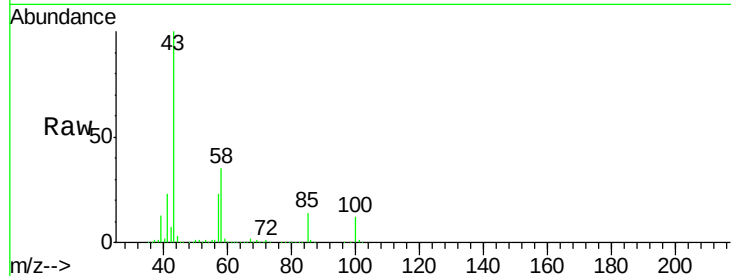
#51
4-Methyl-2-Pentanone
Concen: 338.353 ug/l
RT: 10.21 min Scan# 1362
Delta R.T. -0.00 min
Lab File: VW012193.D
Acq: 27 Aug 2019 01:07

Instrument :
MSVOA_W
ClientSampleId :
S602-M-1.0-1.5-082319MSD

Tot Ion: 43 Resp: 621407
Ion Ratio Lower Upper
43 100
58 35.0 28.2 42.2

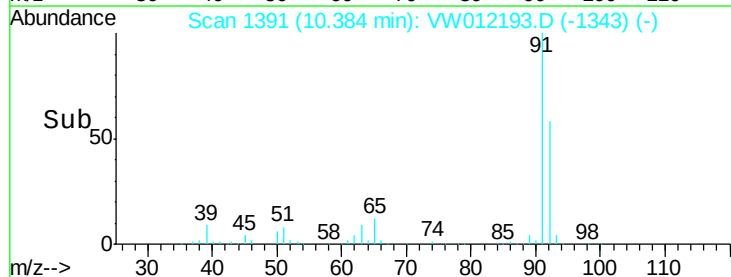
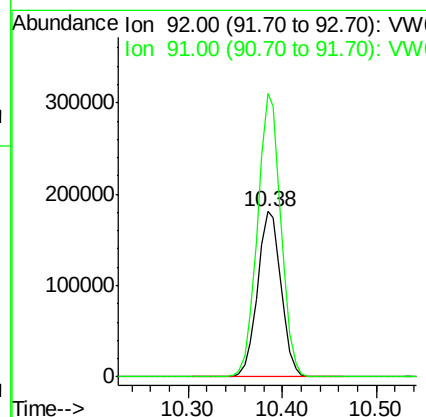
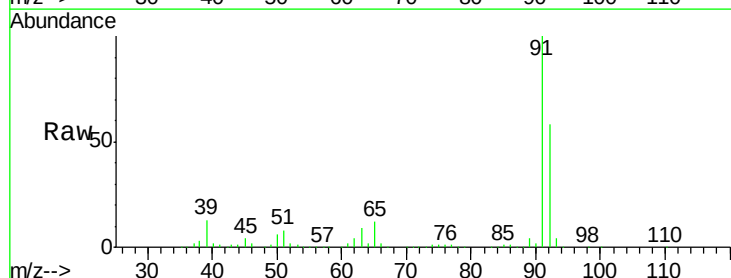
Manual Integrations
APPROVED

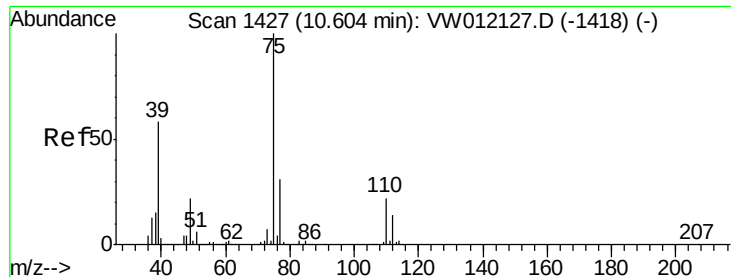
MMDadoda
8/27/2019 11:04:41 AM



#52
Toluene
Concen: 54.661 ug/l
RT: 10.38 min Scan# 1391
Delta R.T. -0.01 min
Lab File: VW012193.D
Acq: 27 Aug 2019 01:07

Tgt Ion: 92 Resp: 318966
Ion Ratio Lower Upper
92 100
91 170.4 136.6 204.8





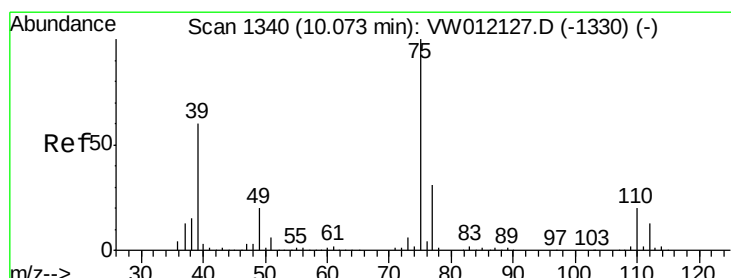
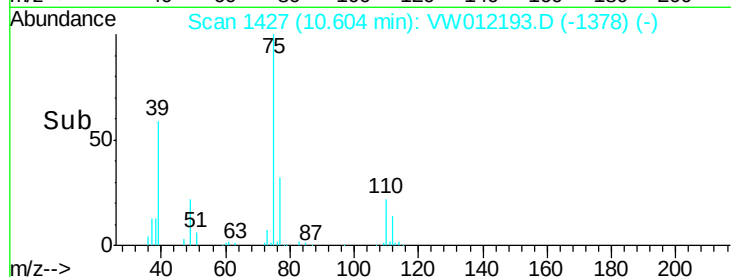
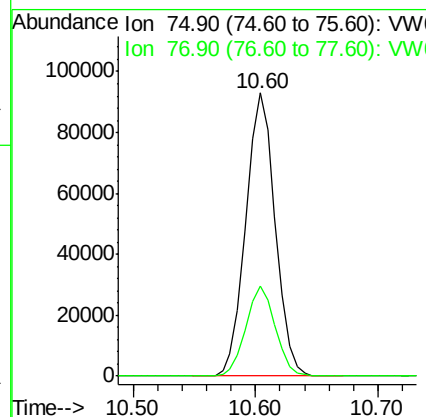
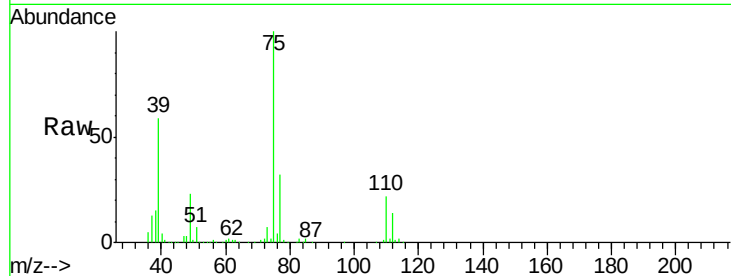
#53
 t-1,3-Dichloropropene
 Concen: 49.203 ug/l
 RT: 10.60 min Scan# 1427
 Delta R.T. -0.00 min
 Lab File: VW012193.D
 Acq: 27 Aug 2019 01:07

Instrument :
 MSVOA_W
 ClientSampleId :
 S602-M-1.0-1.5-082319MSD

Tot Ion: 75 Resp: 155150
 Ion Ratio Lower Upper
 75 100
 77 31.9 25.0 37.4

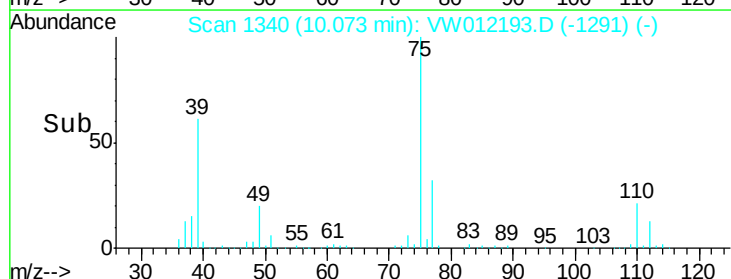
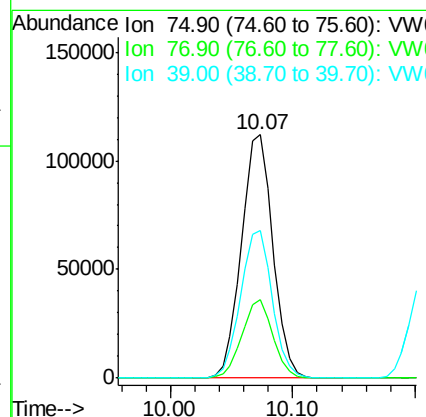
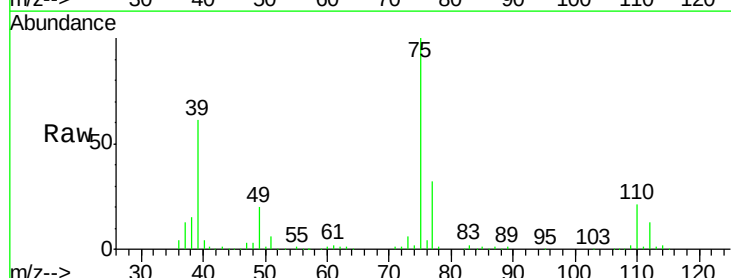
Manual Integrations
 APPROVED

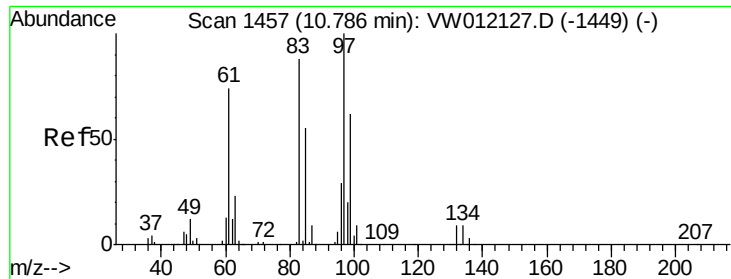
MMDadoda
 8/27/2019 11:04:41 AM



#54
 cis-1,3-Dichloropropene
 Concen: 52.389 ug/l
 RT: 10.07 min Scan# 1340
 Delta R.T. -0.00 min
 Lab File: VW012193.D
 Acq: 27 Aug 2019 01:07

Tgt Ion: 75 Resp: 199465
 Ion Ratio Lower Upper
 75 100
 77 32.0 25.1 37.7
 39 60.5 48.3 72.5





#55

1,1,2-Trichloroethane

Concen: 59.829 ug/l

RT: 10.79 min Scan# 1457

Delta R.T. -0.00 min

Lab File: VW012193.D

Acq: 27 Aug 2019 01:07

Instrument :

MSVOA_W

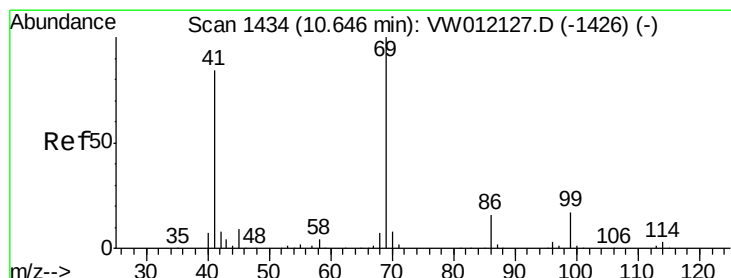
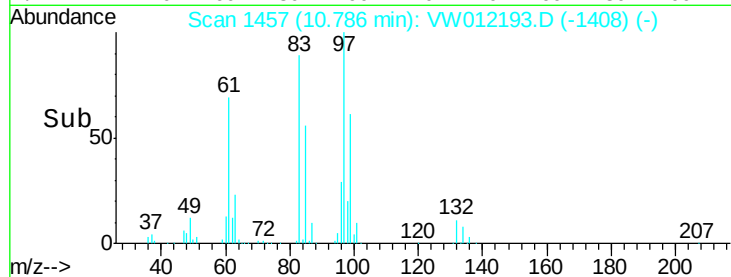
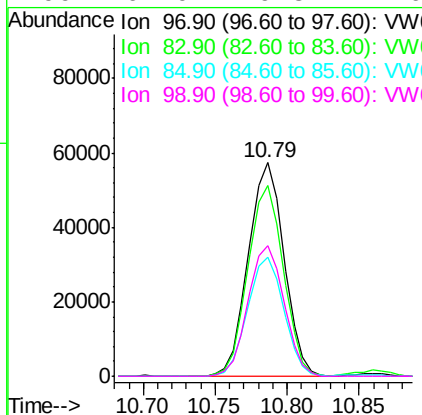
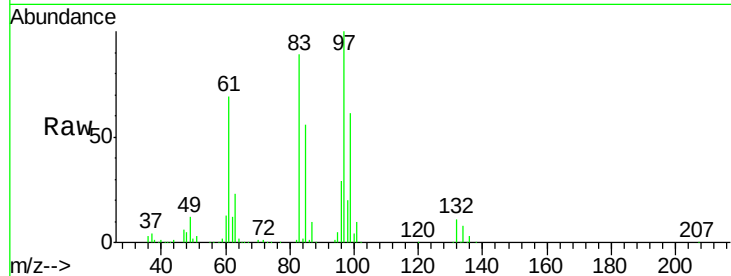
ClientSampleId :

S602-M-1.0-1.5-082319MSD

Tot Ion	Ion	Ratio	Resp	Lower	Upper
97	100		98459		
83	89.0	70.8	106.2		
85	55.8	43.8	65.8		
99	61.0	49.8	74.6		

Manual Integrations
APPROVED

MMDadoda
8/27/2019 11:04:41 AM



#56

Ethyl methacrylate

Concen: 61.821 ug/l

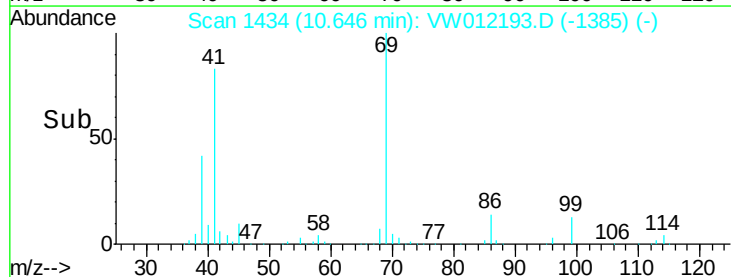
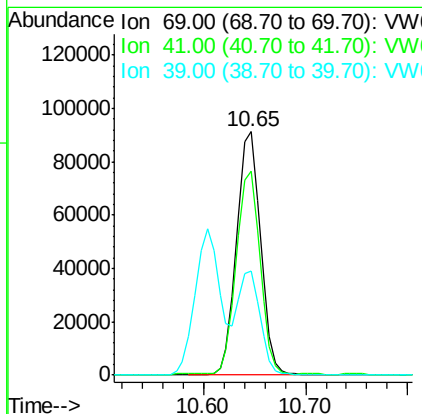
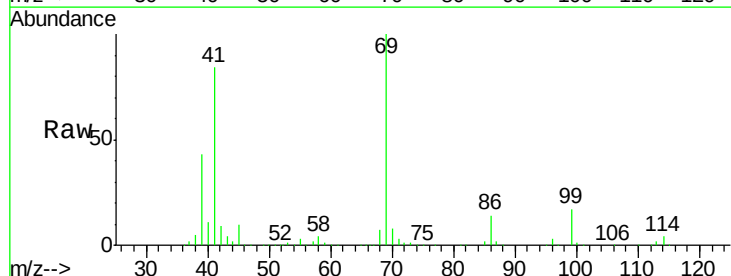
RT: 10.65 min Scan# 1434

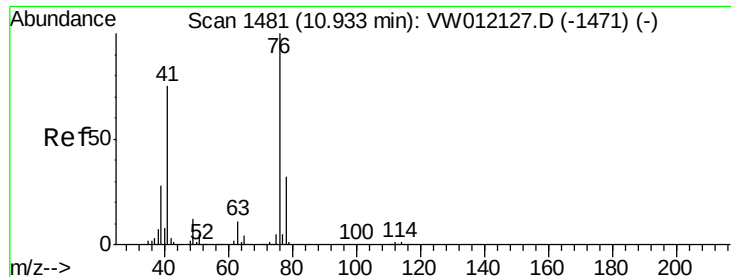
Delta R.T. -0.00 min

Lab File: VW012193.D

Acq: 27 Aug 2019 01:07

Tgt Ion	Ion	Ratio	Resp	Lower	Upper
69	100		148069		
41	83.2	66.5	99.7		
39	38.1	31.0	46.4		





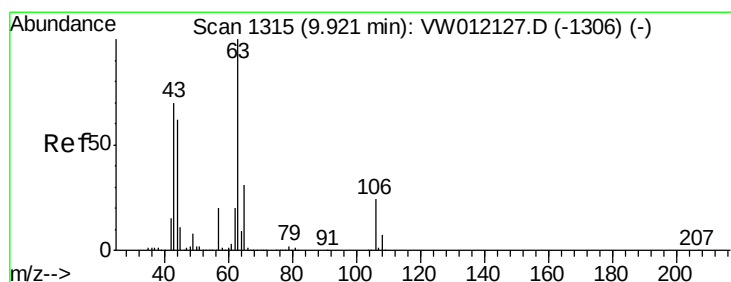
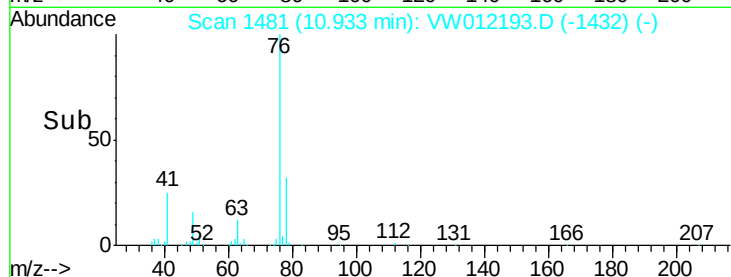
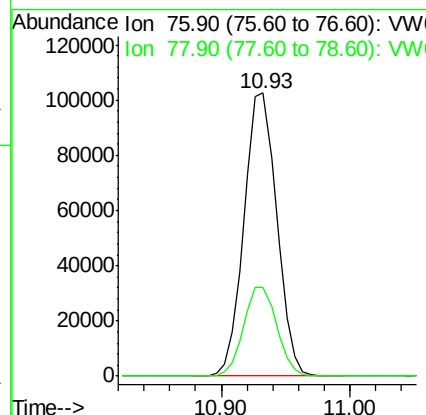
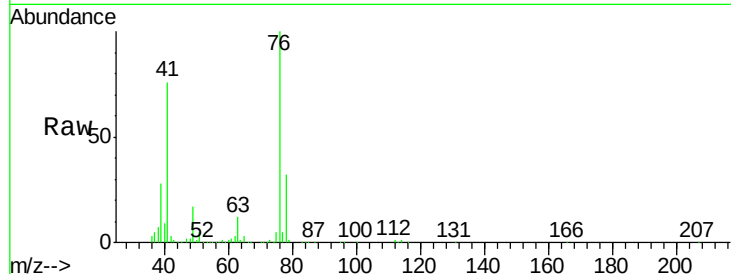
#57
 1,3-Dichloropropane
 Concen: 58.114 ug/l
 RT: 10.93 min Scan# 1481
 Delta R.T. -0.00 min
 Lab File: VW012193.D
 Acq: 27 Aug 2019 01:07

Instrument :
 MSVOA_W
 ClientSampleId :
 S602-M-1.0-1.5-082319MSD

Tot Ion: 76 Resp: 180729
 Ion Ratio Lower Upper
 76 100
 78 32.2 25.8 38.8

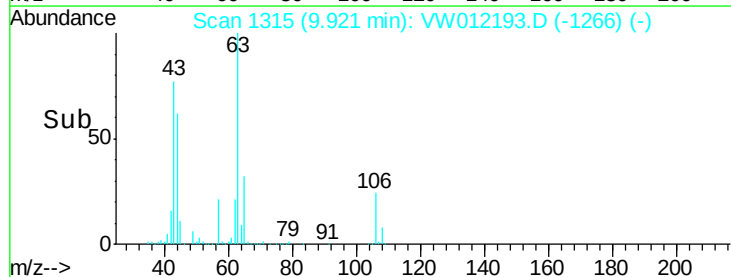
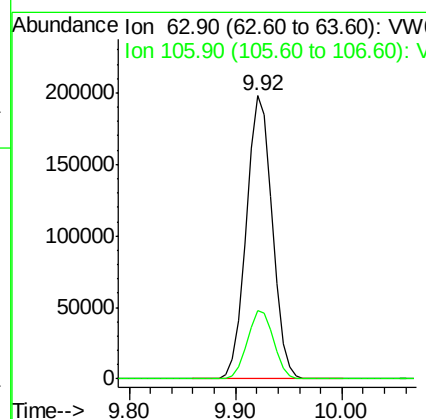
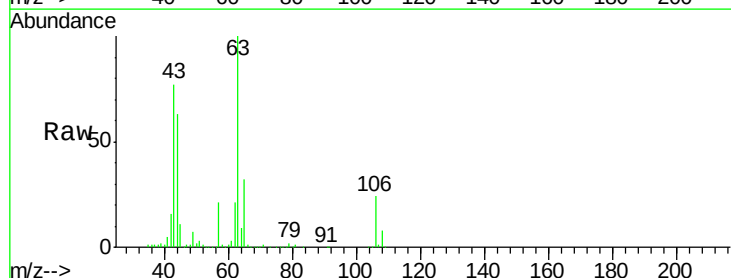
Manual Integrations
 APPROVED

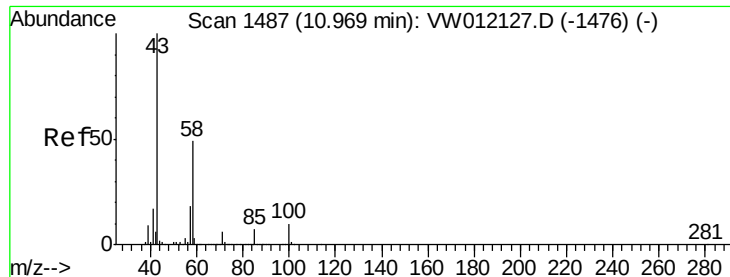
MMDadoda
 8/27/2019 11:04:41 AM



#58
 2-Chloroethyl Vinyl ether
 Concen: 276.098 ug/l
 RT: 9.92 min Scan# 1315
 Delta R.T. -0.00 min
 Lab File: VW012193.D
 Acq: 27 Aug 2019 01:07

Tgt Ion: 63 Resp: 339389
 Ion Ratio Lower Upper
 63 100
 106 24.5 19.8 29.8





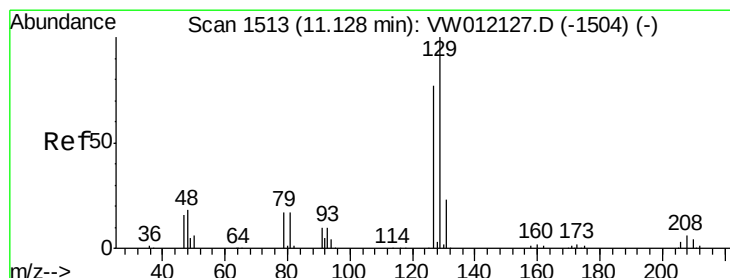
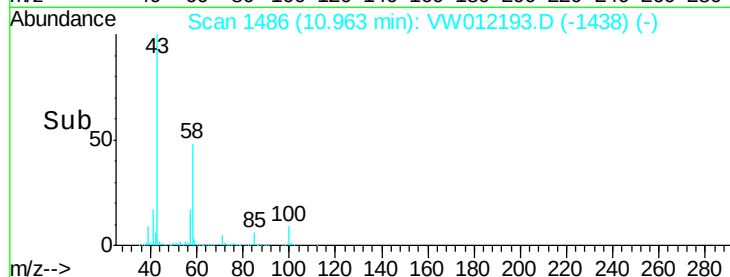
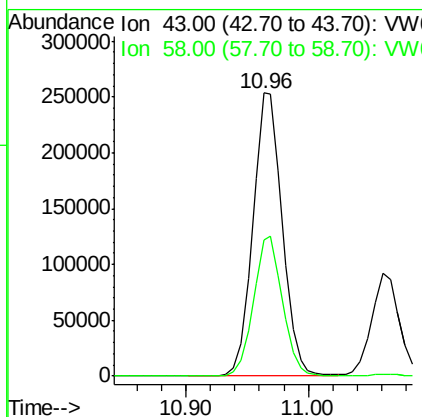
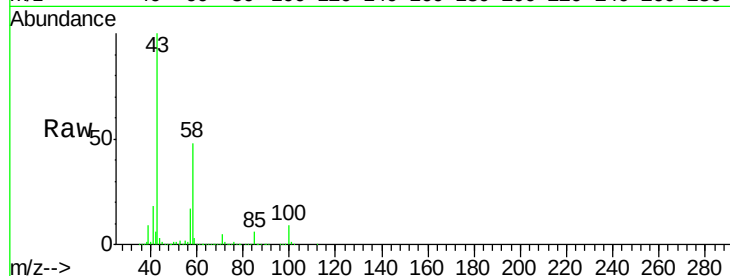
#59
2-Hexanone
Concen: 325.823 ug/l
RT: 10.96 min Scan# 1486
Delta R.T. -0.01 min
Lab File: VW012193.D
Acq: 27 Aug 2019 01:07

Instrument :
MSVOA_W
ClientSampleId :
S602-M-1.0-1.5-082319MSD

Tot Ion: 43 Resp: 423403
Ion Ratio Lower Upper
43 100
58 48.7 24.3 72.9

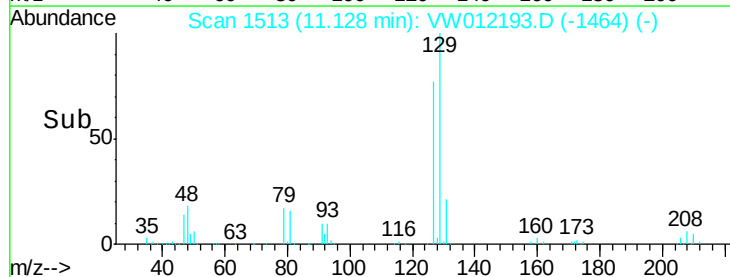
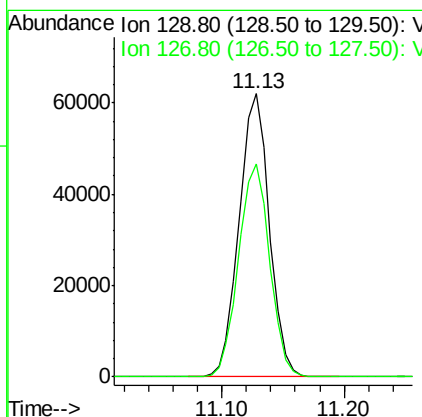
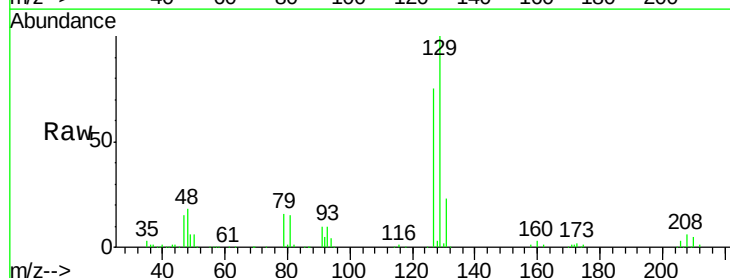
Manual Integrations
APPROVED

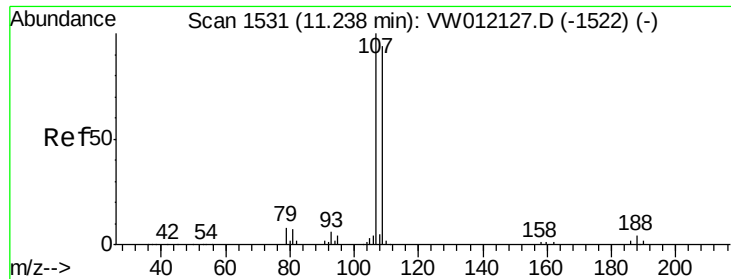
MMDadoda
8/27/2019 11:04:41 AM



#60
Dibromochloromethane
Concen: 58.009 ug/l
RT: 11.13 min Scan# 1513
Delta R.T. -0.00 min
Lab File: VW012193.D
Acq: 27 Aug 2019 01:07

Tgt Ion: 129 Resp: 106330
Ion Ratio Lower Upper
129 100
127 77.5 38.6 115.8





#61

1,2-Dibromoethane

Concen: 55.718 ug/l

RT: 11.23 min Scan# 1530

Delta R.T. -0.01 min

Lab File: VW012193.D

Acq: 27 Aug 2019 01:07

Instrument :

MSVOA_W

ClientSampleId :

S602-M-1.0-1.5-082319MSD

Tot Ion: 107 Resp: 85424

Ion Ratio Lower Upper

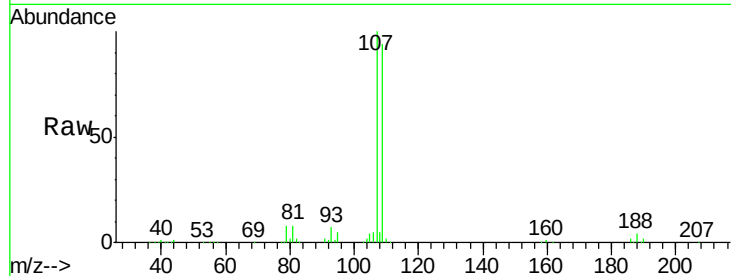
107 100

109 94.8 75.4 113.2

Manual Integrations
APPROVED

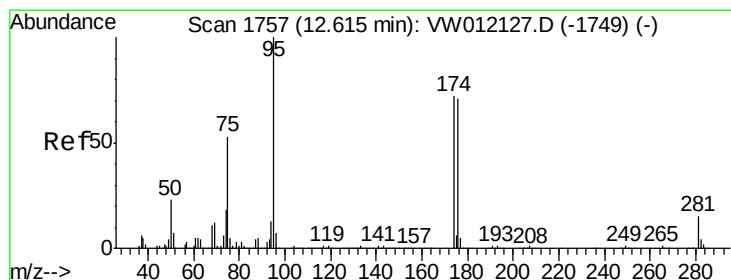
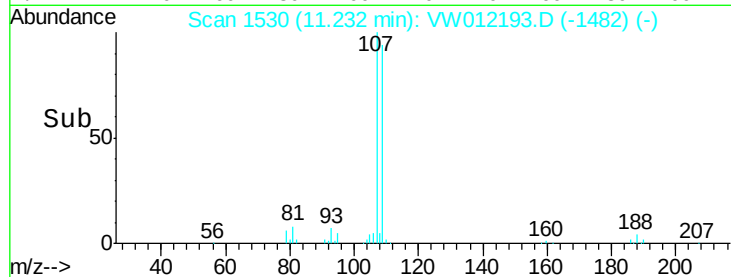
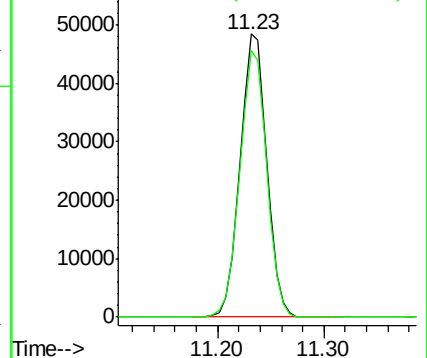
MMDadoda

8/27/2019 11:04:41 AM



Abundance Ion 106.90 (106.60 to 107.60): V

Ion 108.80 (108.50 to 109.50): V



#62

4-Bromofluorobenzene

Concen: 42.038 ug/l

RT: 12.62 min Scan# 1757

Delta R.T. -0.00 min

Lab File: VW012193.D

Acq: 27 Aug 2019 01:07

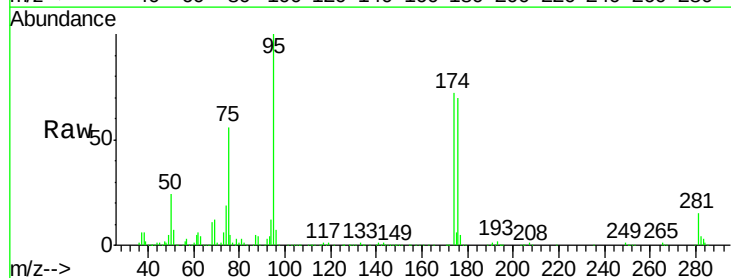
Tgt Ion: 95 Resp: 123459

Ion Ratio Lower Upper

95 100

174 74.9 0.0 150.8

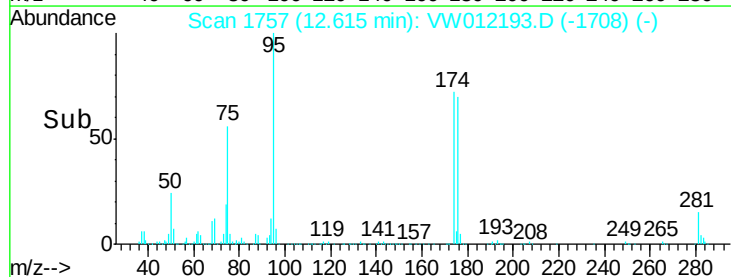
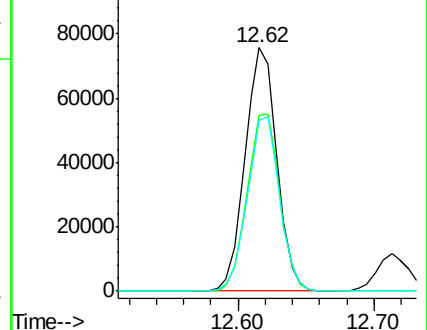
176 72.4 0.0 148.6

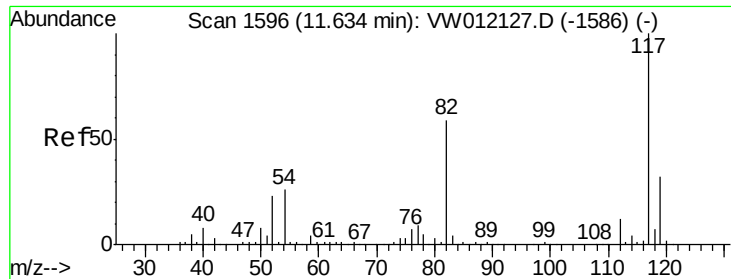


Abundance Ion 94.90 (94.60 to 95.60): VW

Ion 173.80 (173.50 to 174.50): V

Ion 175.80 (175.50 to 176.50): V





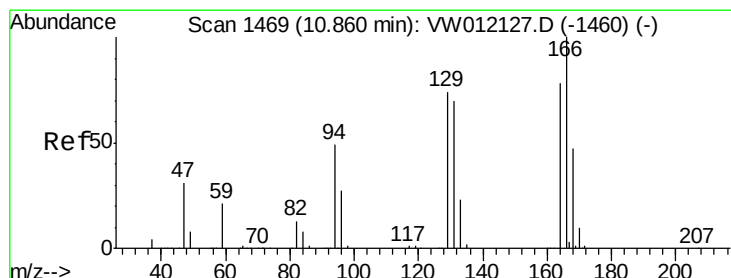
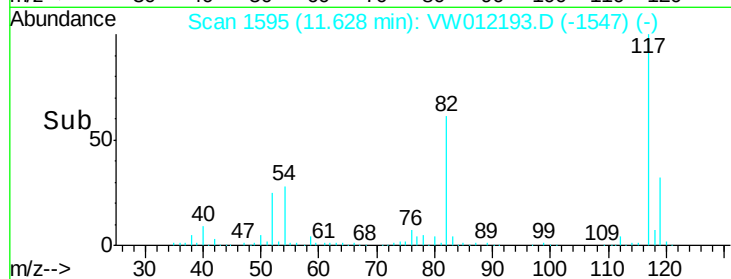
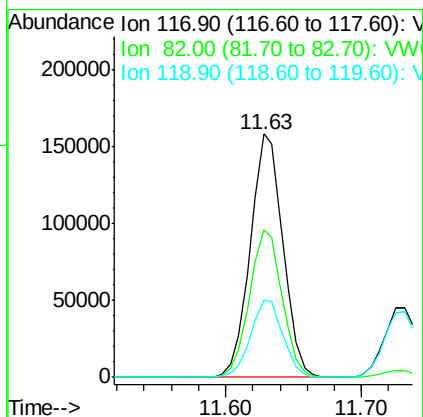
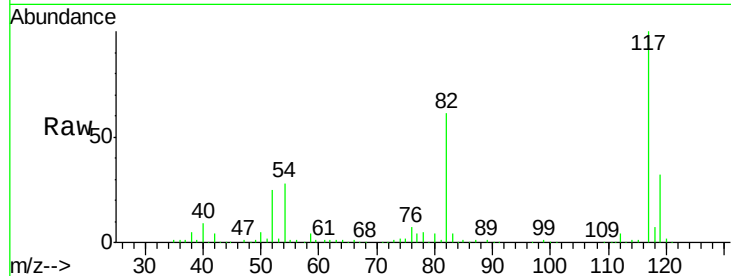
#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.63 min Scan# 1595
Delta R.T. -0.01 min
Lab File: VW012193.D
Acq: 27 Aug 2019 01:07

Instrument :
MSVOA_W
ClientSampleId :
S602-M-1.0-1.5-082319MSD

Tot Ion	Ratio	Resp	Lower	Upper
117	100	266653		
82	60.7		47.4	71.2
119	31.5		25.4	38.2

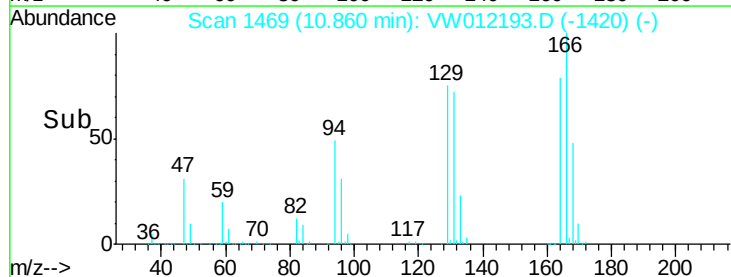
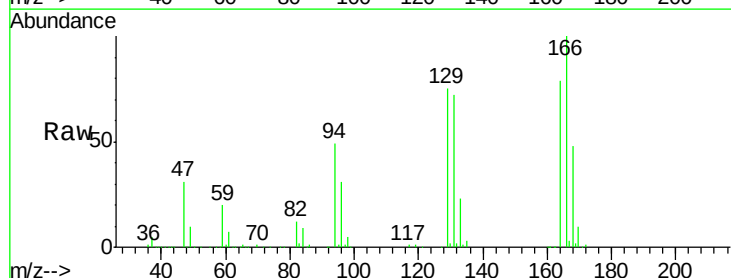
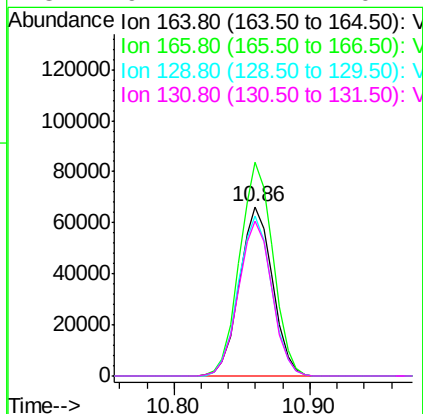
Manual Integrations
APPROVED

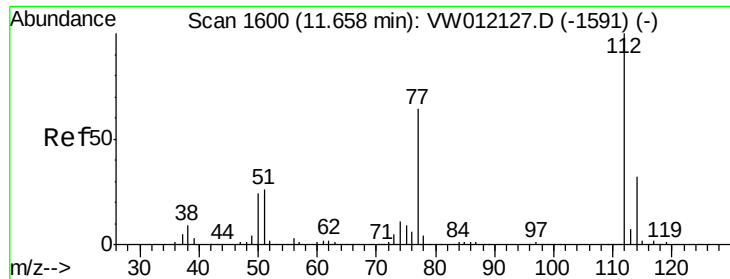
MMDadoda
8/27/2019 11:04:41 AM



#64
Tetrachloroethene
Concen: 65.028 ug/l
RT: 10.86 min Scan# 1469
Delta R.T. -0.00 min
Lab File: VW012193.D
Acq: 27 Aug 2019 01:07

Tgt Ion	Ratio	Resp	Lower	Upper
164	100	112420		
166	125.9		102.4	153.6
129	94.3		75.8	113.6
131	91.2		71.4	107.2





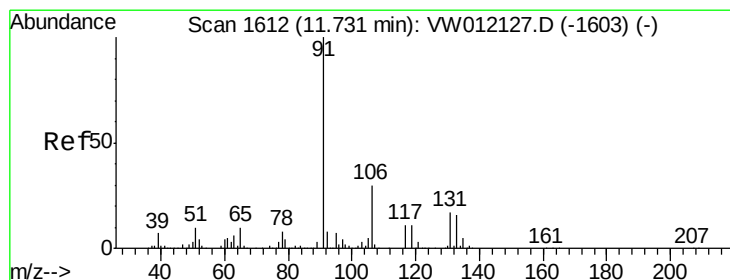
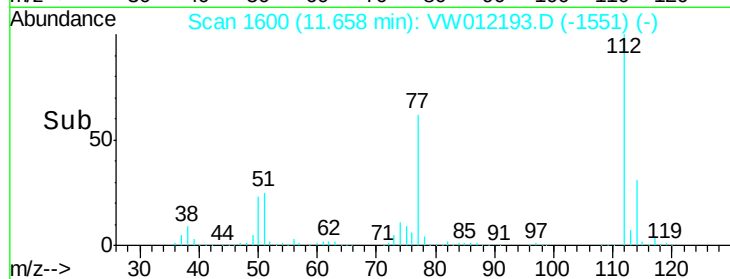
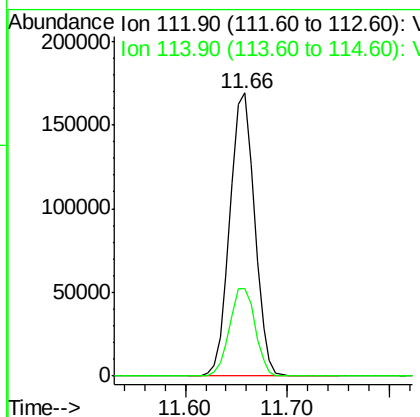
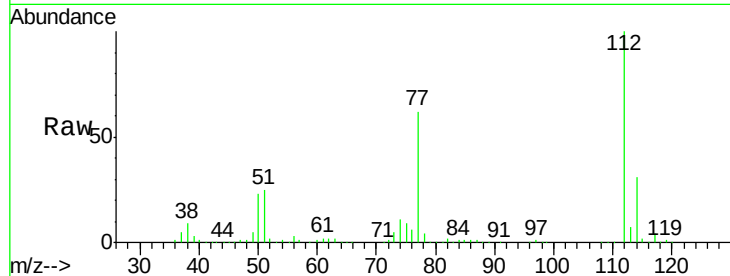
#65
Chlorobenzene
Concen: 53.816 ug/l
RT: 11.66 min Scan# 1600
Delta R.T. -0.00 min
Lab File: VW012193.D
Acq: 27 Aug 2019 01:07

Instrument :
MSVOA_W
ClientSampleId :
S602-M-1.0-1.5-082319MSD

Tot Ion	Ratio	Lower	Upper
112	100		
114	31.1	25.8	38.6

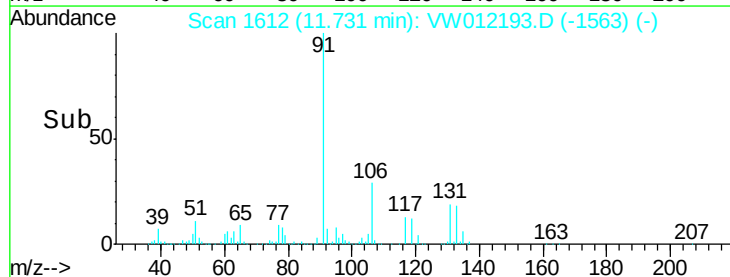
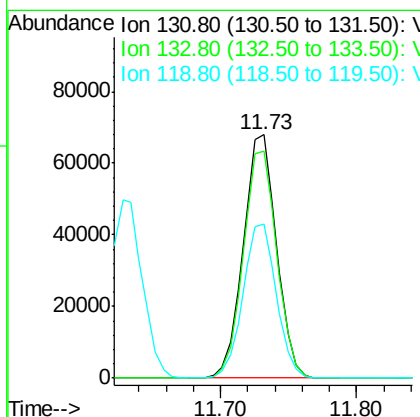
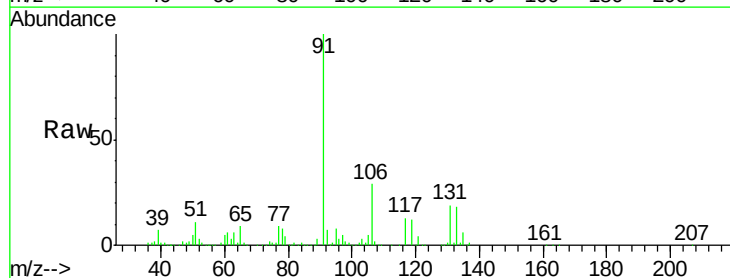
Manual Integrations
APPROVED

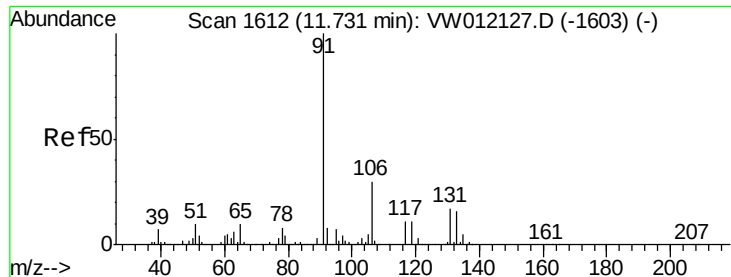
MMDadoda
8/27/2019 11:04:41 AM



#66
1,1,1,2-Tetrachloroethane
Concen: 63.389 ug/l
RT: 11.73 min Scan# 1612
Delta R.T. -0.00 min
Lab File: VW012193.D
Acq: 27 Aug 2019 01:07

Tgt Ion	Ratio	Lower	Upper
131	100		
133	94.3	47.1	141.3
119	63.4	31.8	95.3





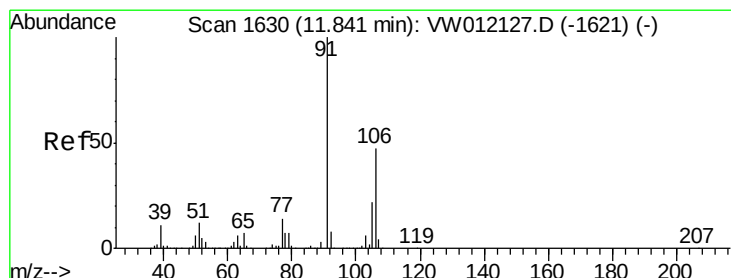
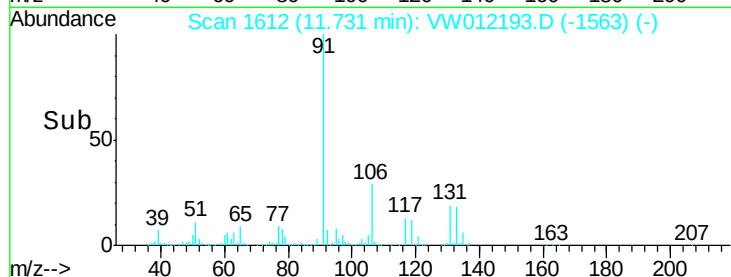
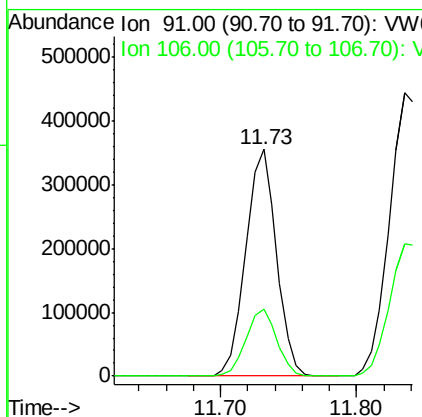
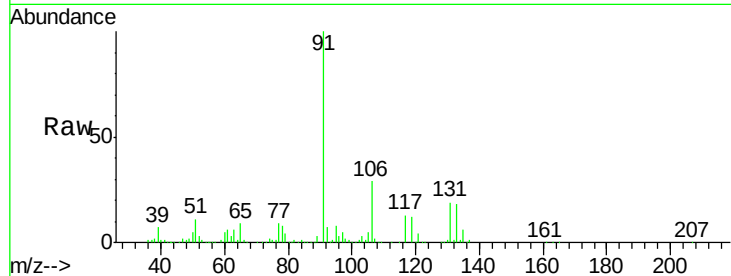
#67
Ethyl Benzene
Concen: 55.533 ug/l
RT: 11.73 min Scan# 1612
Delta R.T. -0.00 min
Lab File: VW012193.D
Acq: 27 Aug 2019 01:07

Instrument :
MSVOA_W
ClientSampleId :
S602-M-1.0-1.5-082319MSD

Tot Ion	91	Resp	561686
Ion Ratio	100	Lower	Upper
91	100		
106	29.4	24.3	36.5

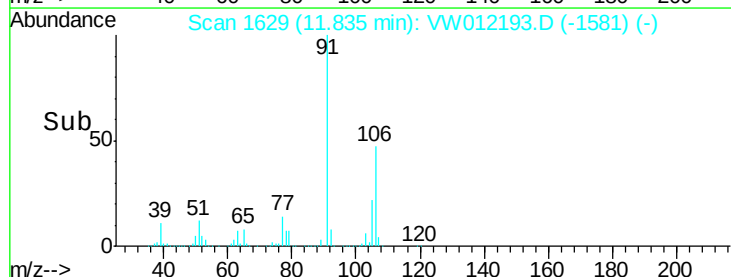
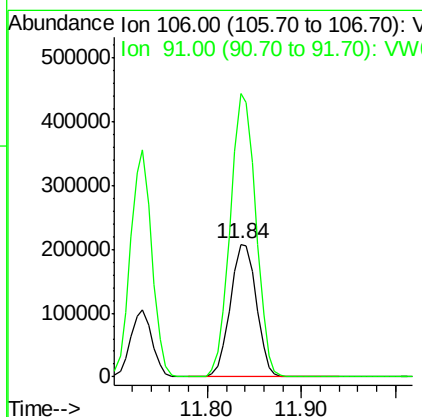
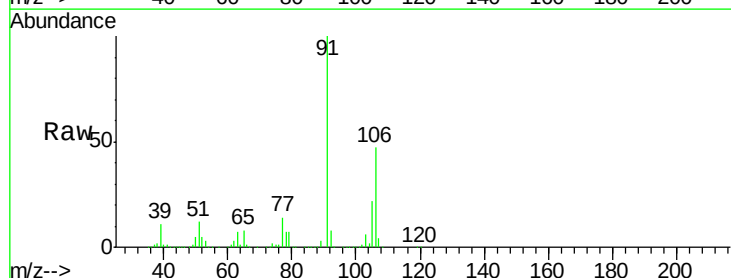
Manual Integrations
APPROVED

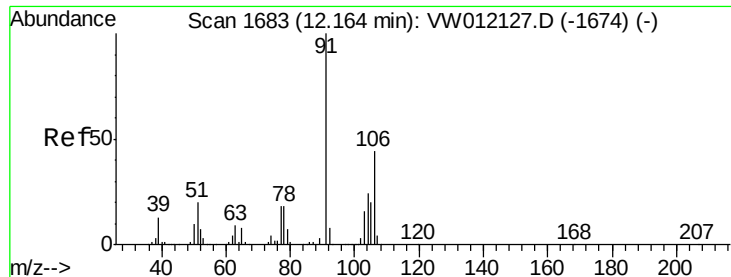
MMDadoda
8/27/2019 11:04:41 AM



#68
m/p-Xylenes
Concen: 109.461 ug/l
RT: 11.84 min Scan# 1629
Delta R.T. -0.01 min
Lab File: VW012193.D
Acq: 27 Aug 2019 01:07

Tgt Ion	106	Resp	398804
Ion Ratio <td>100</td> <td>Lower</td> <td>Upper</td>	100	Lower	Upper
106	100		
91	209.8	169.5	254.3





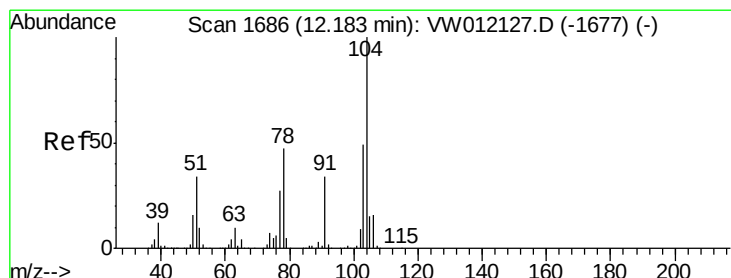
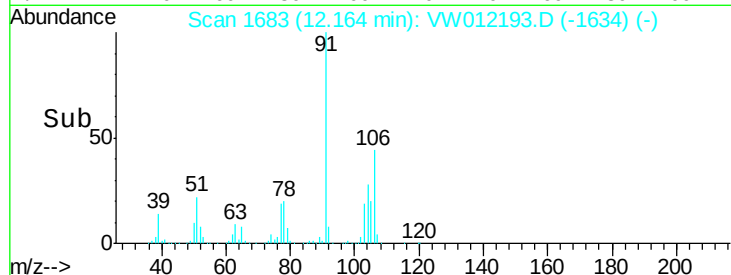
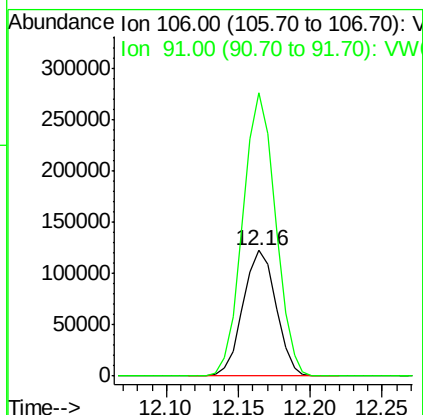
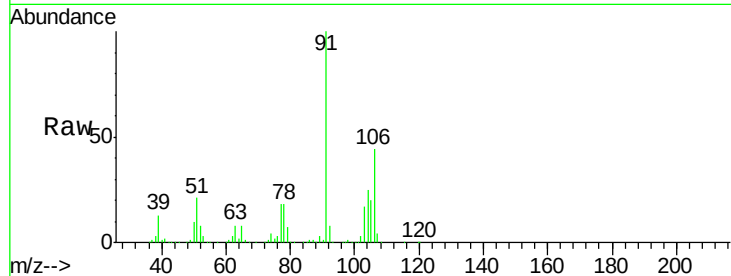
#69
o-Xylene
Concen: 57.869 ug/l
RT: 12.16 min Scan# 1683
Delta R.T. -0.00 min
Lab File: VW012193.D
Acq: 27 Aug 2019 01:07

Instrument :
MSVOA_W
ClientSampleId :
S602-M-1.0-1.5-082319MSD

Tot Ion	Ratio	Lower	Upper
106	100		
91	223.1	111.6	334.6

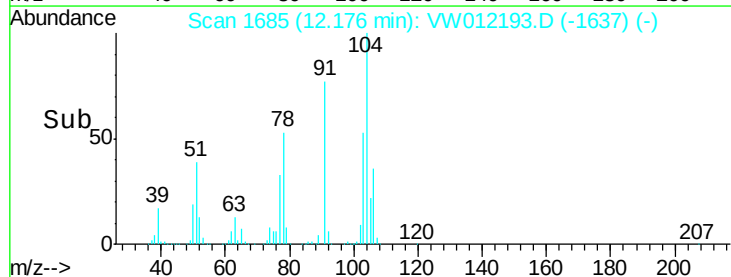
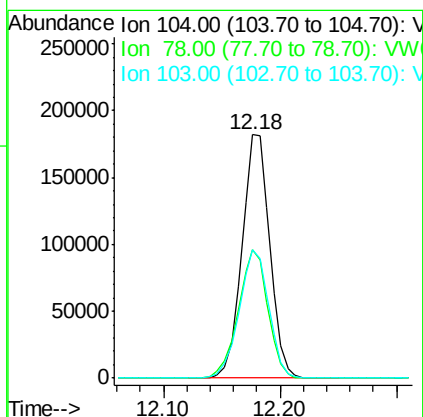
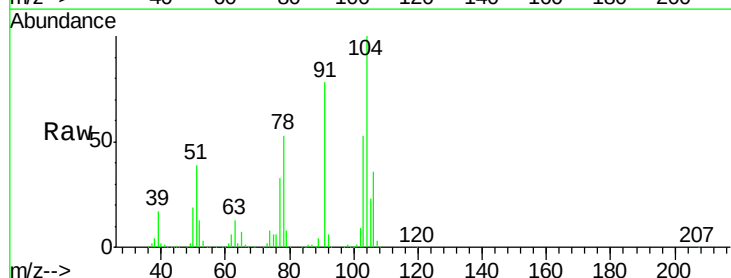
Manual Integrations
APPROVED

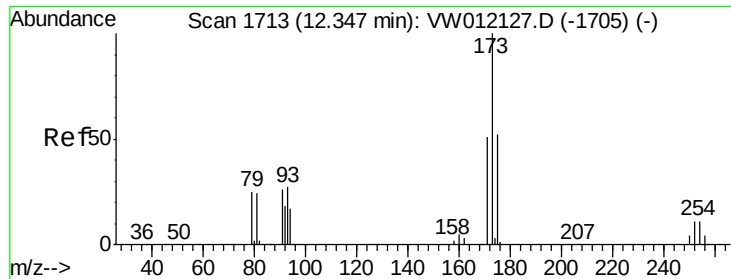
MMDadoda
8/27/2019 11:04:41 AM



#70
Styrene
Concen: 51.869 ug/l
RT: 12.18 min Scan# 1685
Delta R.T. -0.01 min
Lab File: VW012193.D
Acq: 27 Aug 2019 01:07

Tgt Ion	Ratio	Lower	Upper
104	100		
78	55.8	43.1	64.7
103	56.2	43.5	65.3





#71

Bromoform

Concen: 65.471 ug/l

RT: 12.35 min Scan# 1713

Delta R.T. -0.00 min

Lab File: VW012193.D

Acq: 27 Aug 2019 01:07

Instrument :

MSVOA_W

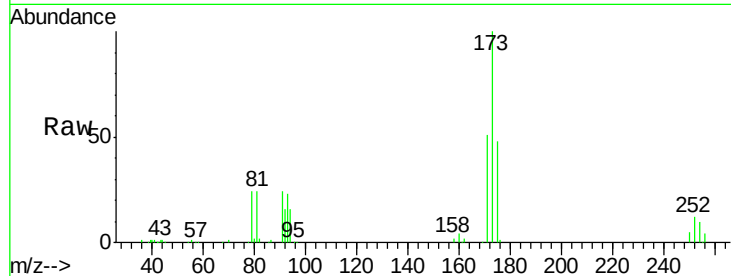
ClientSampleId :

S602-M-1.0-1.5-082319MSD

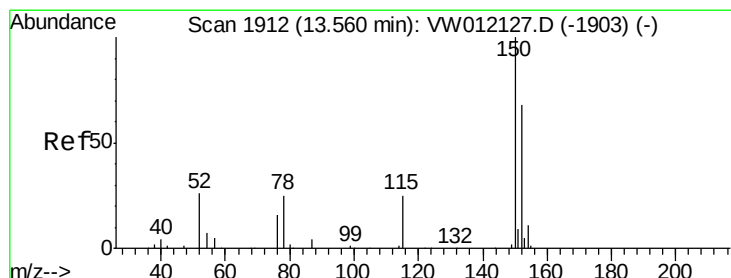
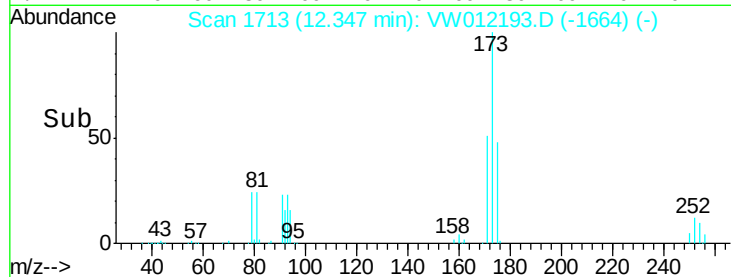
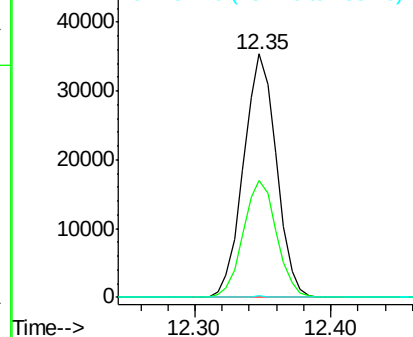
Tot Ion:173	Resp:	59750
Ion Ratio	Lower	Upper
173 100		
175 48.5	24.6	74.0
254 0.2	0.2	0.2

Manual Integrations
APPROVED

MMDadoda
8/27/2019 11:04:41 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

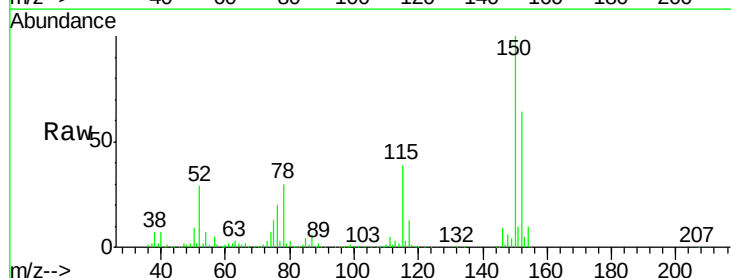
RT: 13.55 min Scan# 1911

Delta R.T. -0.01 min

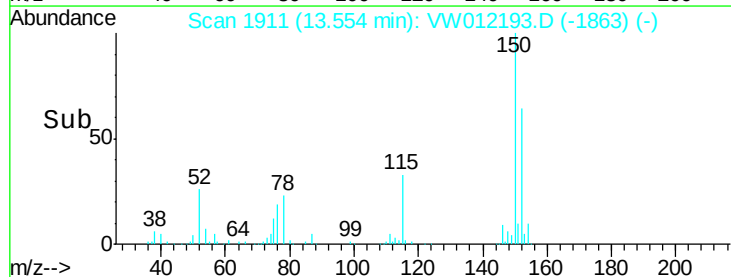
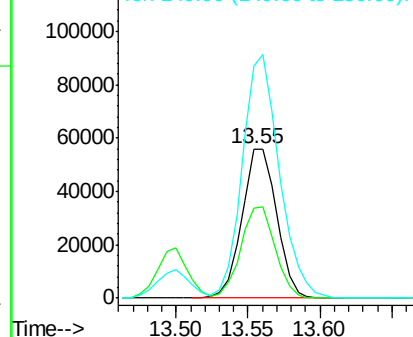
Lab File: VW012193.D

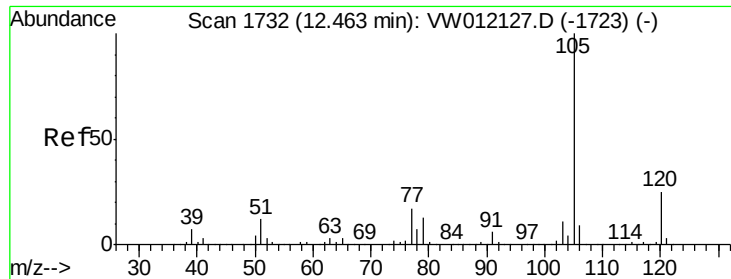
Acq: 27 Aug 2019 01:07

Tgt Ion:152	Resp:	92916
Ion Ratio	Lower	Upper
152 100		
115 61.1	30.1	90.3
150 174.7	0.0	345.8



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





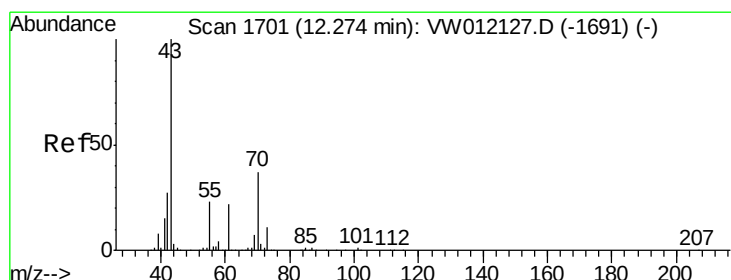
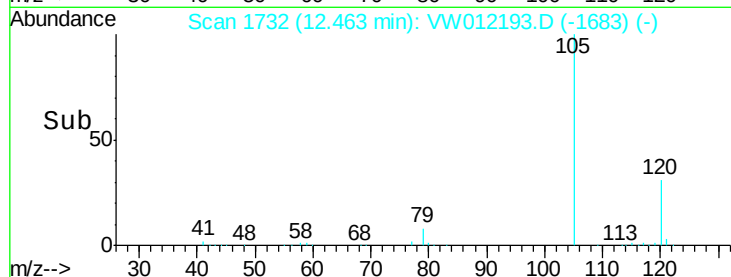
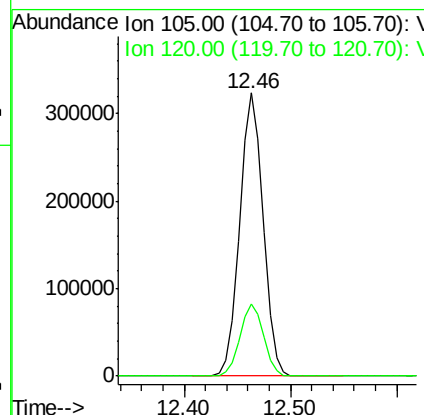
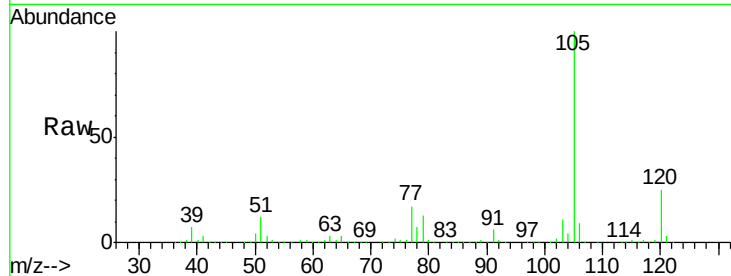
#73
Isopropylbenzene
Concen: 71.802 ug/l
RT: 12.46 min Scan# 1732
Delta R.T. -0.00 min
Lab File: VW012193.D
Acq: 27 Aug 2019 01:07

Instrument :
MSVOA_W
ClientSampleId :
S602-M-1.0-1.5-082319MSD

Tot Ion	Ratio	Resp	Lower	Upper
105	100	499911		
120	25.8	12.5	37.5	

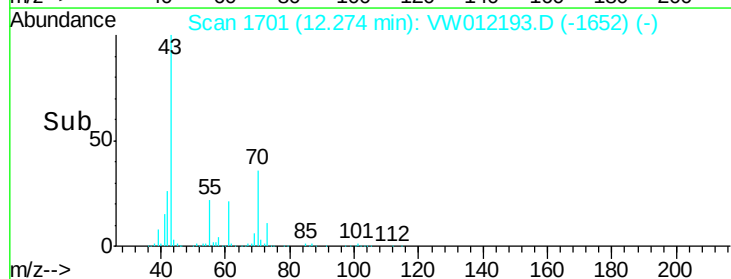
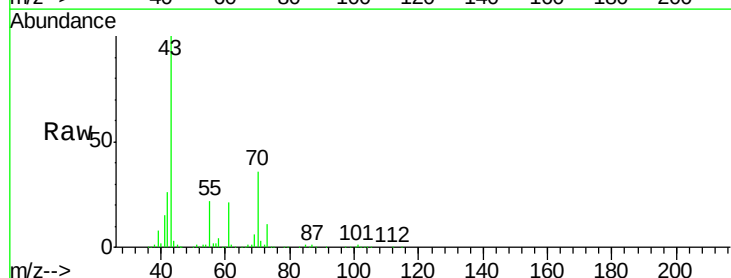
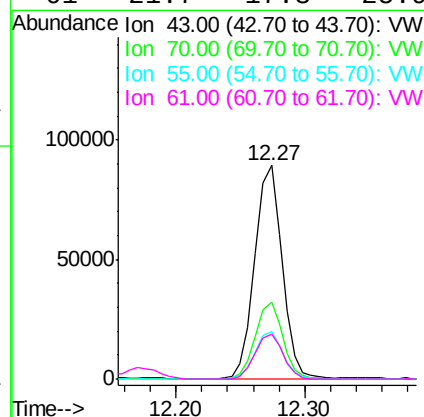
Manual Integrations
APPROVED

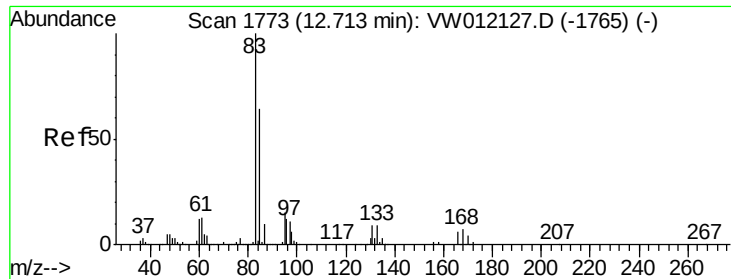
MMDadoda
8/27/2019 11:04:41 AM



#74
N-ethyl acetate
Concen: 62.378 ug/l
RT: 12.27 min Scan# 1701
Delta R.T. -0.00 min
Lab File: VW012193.D
Acq: 27 Aug 2019 01:07

Tgt Ion	Ratio	Resp	Lower	Upper
43	100	131213		
70	36.0	28.6	43.0	
55	22.5	17.8	26.6	
61	21.7	17.3	25.9	





#75

1,1,2,2-Tetrachloroethane

Concen: 89.393 ug/l

RT: 12.71 min Scan# 1773

Delta R.T. -0.00 min

Lab File: VW012193.D

Acq: 27 Aug 2019 01:07

Instrument :

MSVOA_W

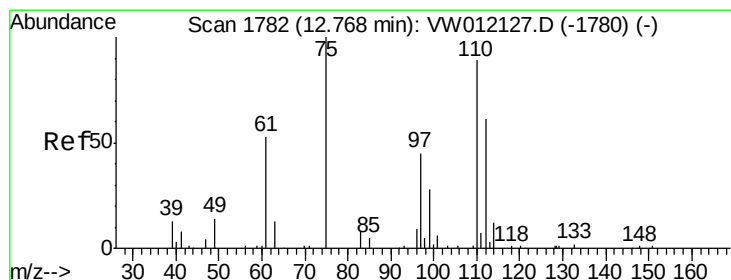
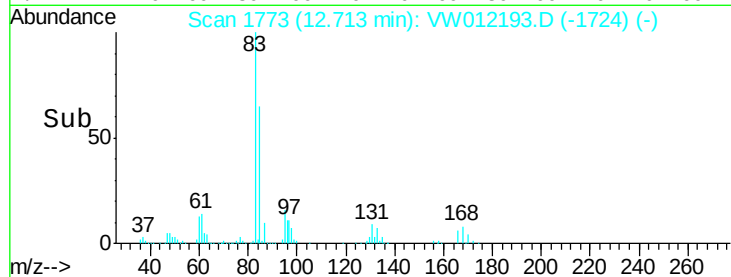
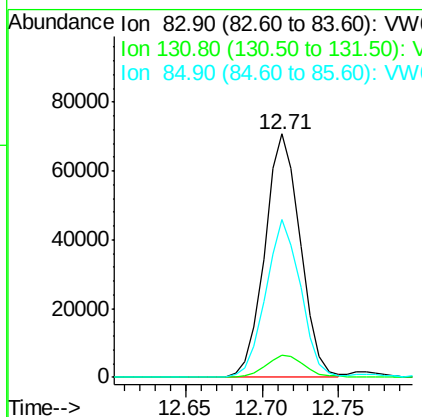
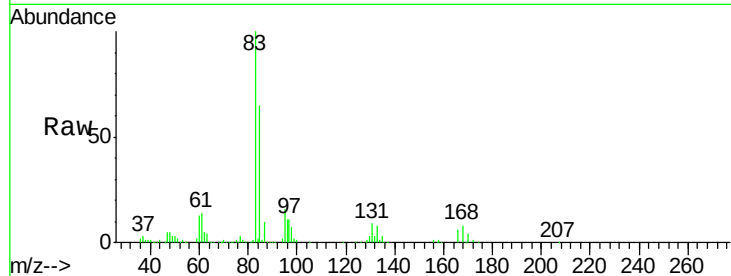
ClientSampleId :

S602-M-1.0-1.5-082319MSD

Tot Ion:	83	Resp:	114101
Ion Ratio	Lower	Upper	
83	100		
131	10.0	4.9	14.7
85	63.5	31.9	95.7

Manual Integrations
APPROVED

MMDadoda
8/27/2019 11:04:41 AM



#76

1,2,3-Trichloropropane

Concen: 84.831 ug/l m

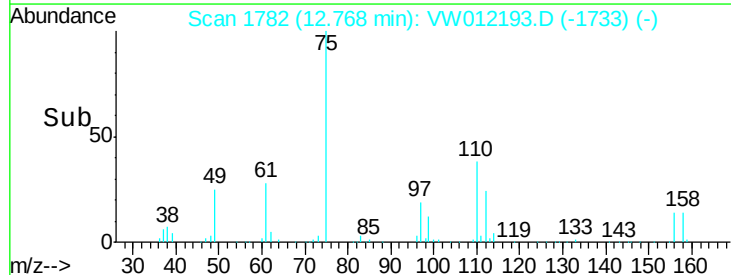
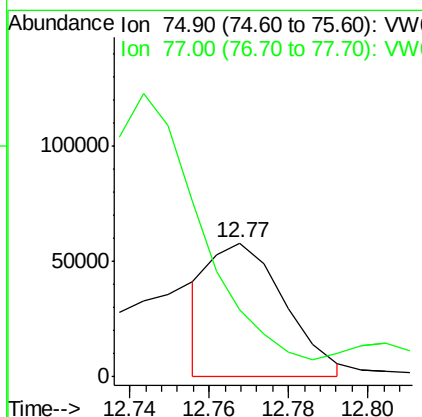
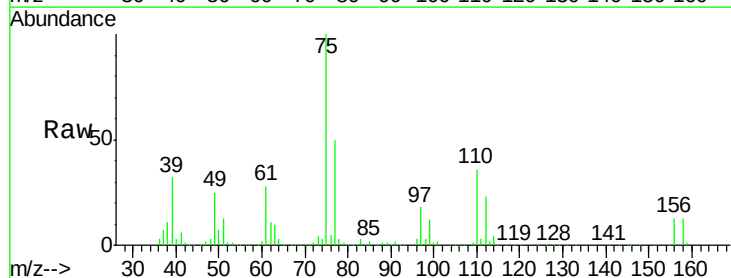
RT: 12.77 min Scan# 1782

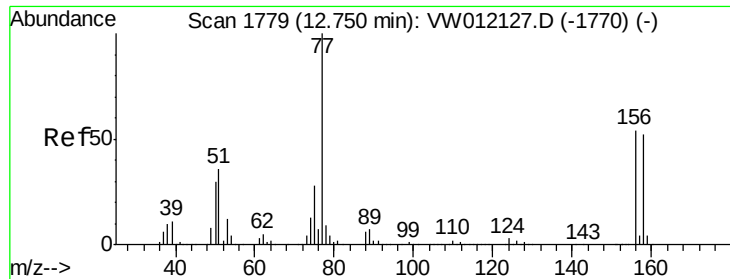
Delta R.T. -0.00 min

Lab File: VW012193.D

Acq: 27 Aug 2019 01:07

Tgt Ion:	75	Resp:	76767
Ion Ratio	Lower	Upper	
75	100		
77	0.0	0.0	0.0





#77

Bromobenzene

Concen: 68.279 ug/l

RT: 12.74 min Scan# 1778

Delta R.T. -0.01 min

Lab File: VW012193.D

Acq: 27 Aug 2019 01:07

Instrument :

MSVOA_W

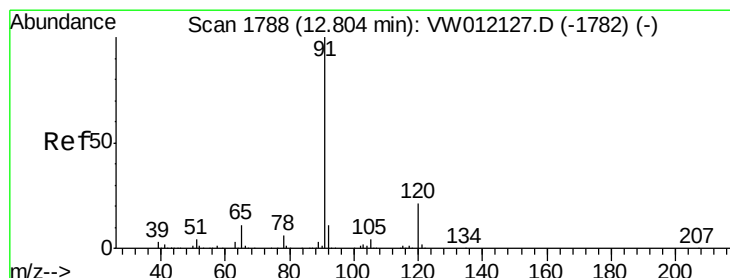
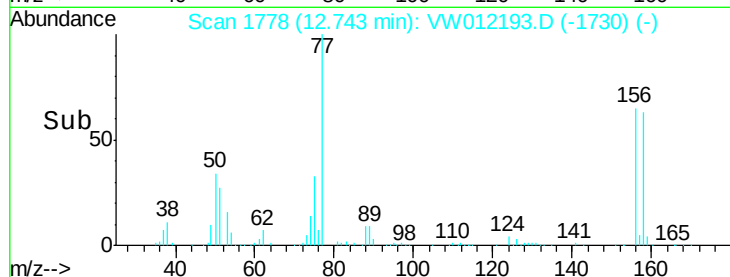
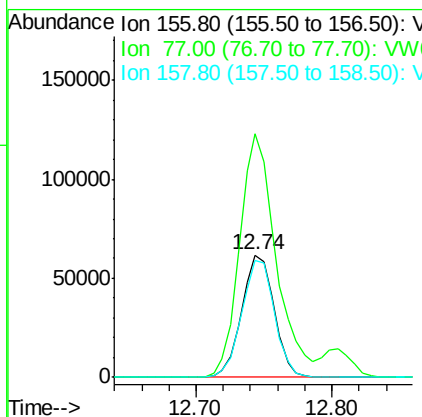
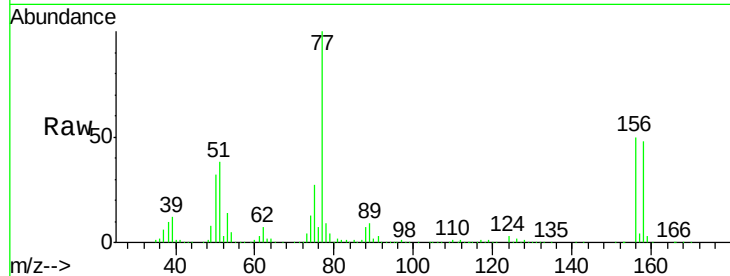
ClientSampleId :

S602-M-1.0-1.5-082319MSD

Tot Ion:	156	Resp:	102843
Ion Ratio	Lower	Upper	
156	100		
77	222.4	107.3	321.8
158	96.8	49.0	147.0

Manual Integrations
APPROVED

MMDadoda
8/27/2019 11:04:41 AM



#78

n-propylbenzene

Concen: 64.229 ug/l

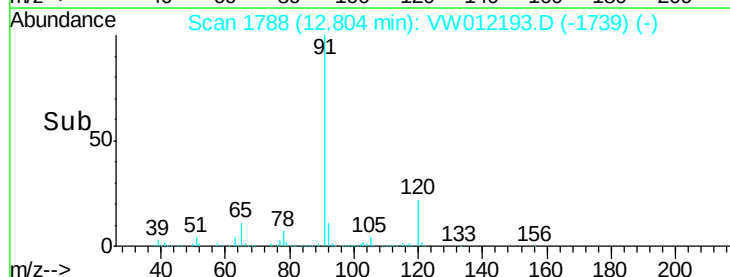
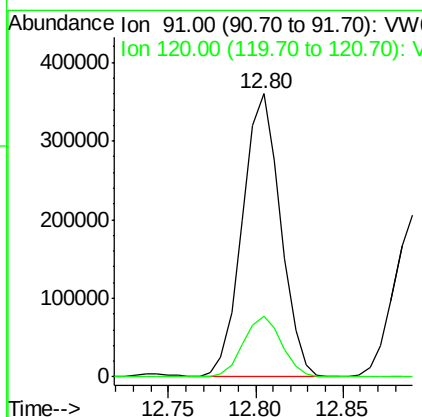
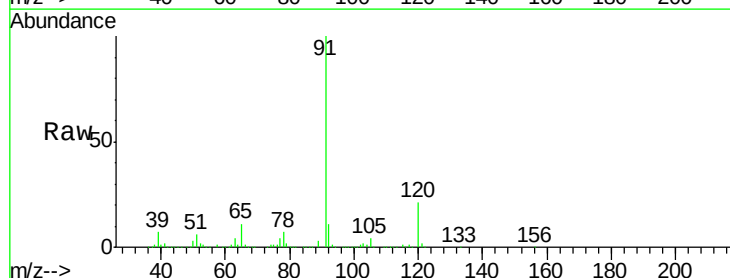
RT: 12.80 min Scan# 1788

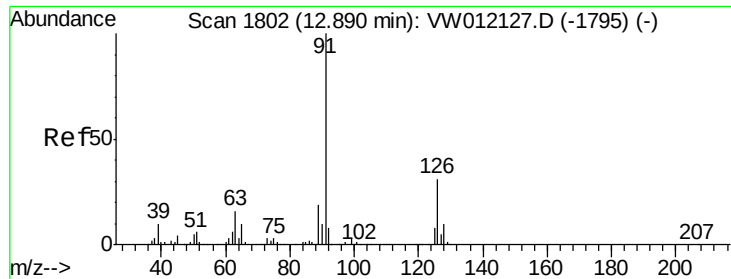
Delta R.T. -0.00 min

Lab File: VW012193.D

Acq: 27 Aug 2019 01:07

Tgt Ion:	91	Resp:	545922
Ion Ratio	Lower	Upper	
91	100		
120	21.5	10.5	31.6





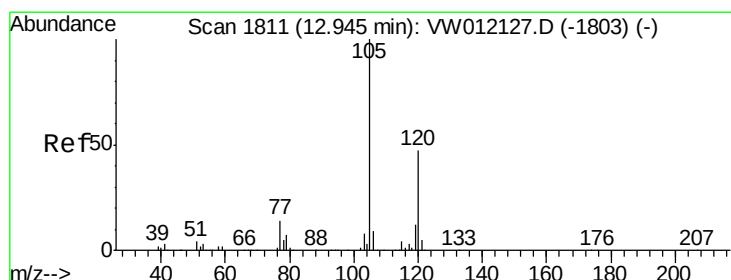
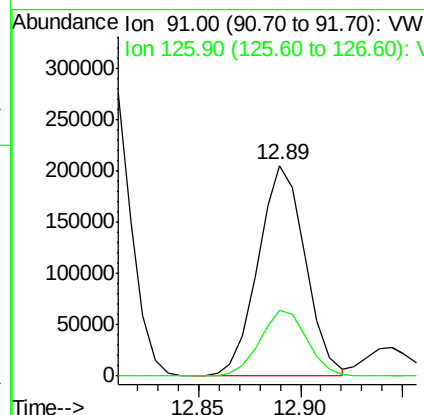
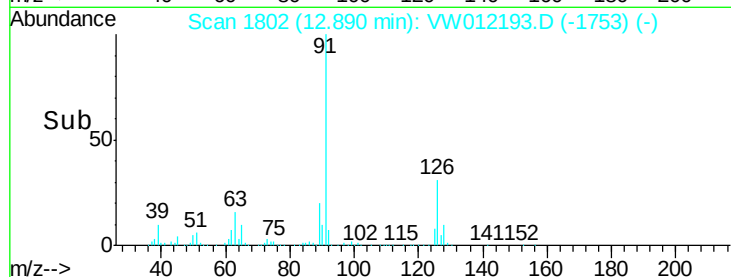
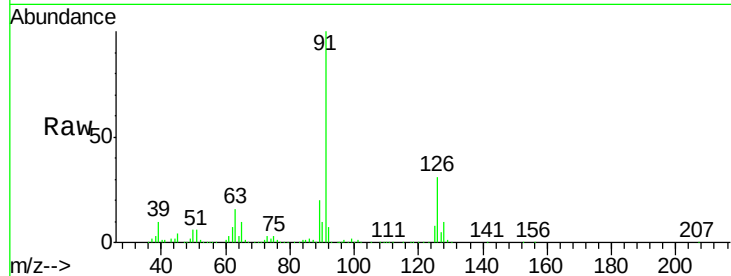
#79
2-Chlorotoluene
Concen: 68.284 ug/l
RT: 12.89 min Scan# 1802
Delta R.T. -0.00 min
Lab File: VW012193.D
Acq: 27 Aug 2019 01:07

Instrument :
MSVOA_W
ClientSampleId :
S602-M-1.0-1.5-082319MSD

Tot Ion	Ratio	Lower	Upper
91	100		
126	31.3	15.7	47.0

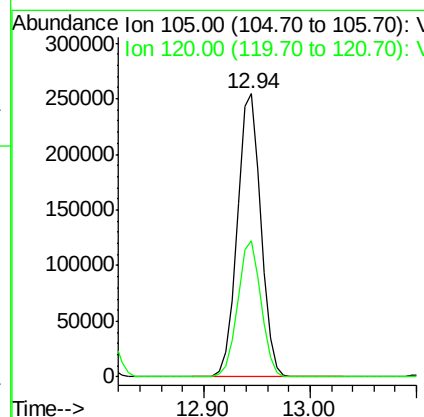
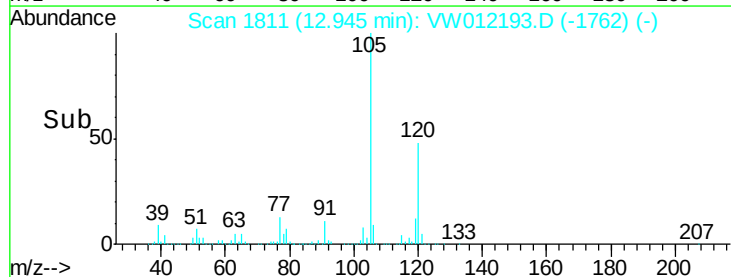
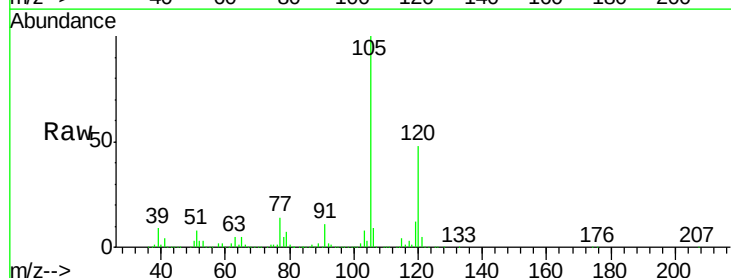
Manual Integrations
APPROVED

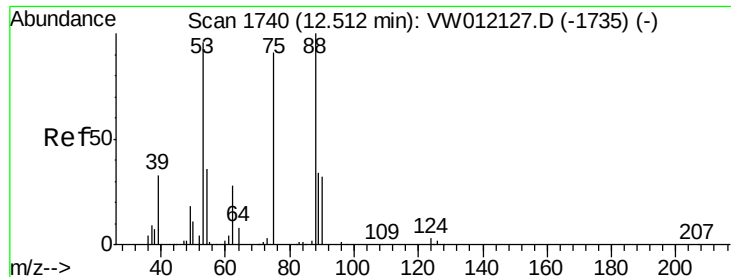
MMDadoda
8/27/2019 11:04:41 AM



#80
1,3,5-Trimethylbenzene
Concen: 67.725 ug/l
RT: 12.94 min Scan# 1811
Delta R.T. -0.00 min
Lab File: VW012193.D
Acq: 27 Aug 2019 01:07

Tgt Ion	Ratio	Lower	Upper
105	100		
120	47.8	24.0	72.0





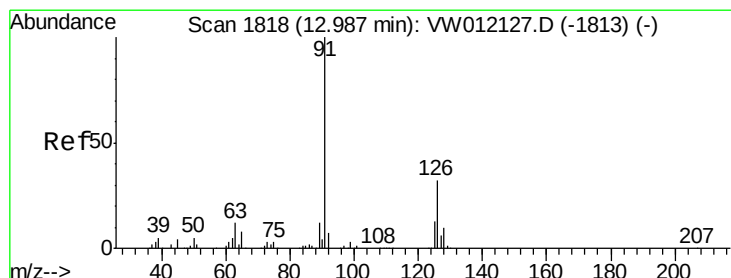
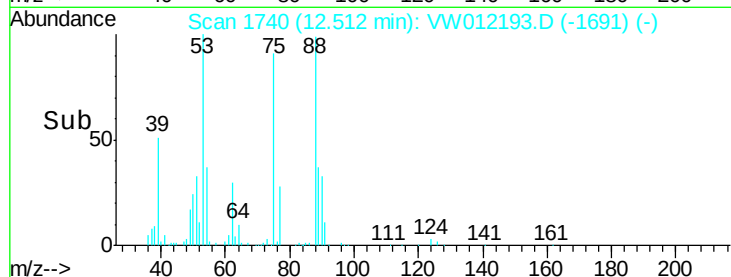
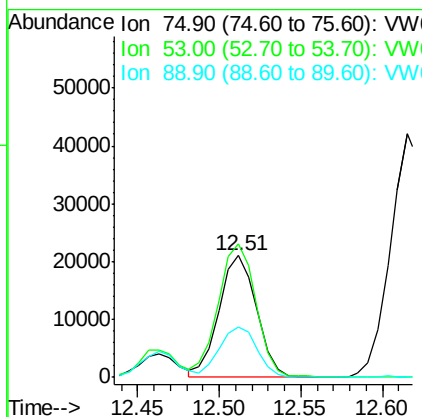
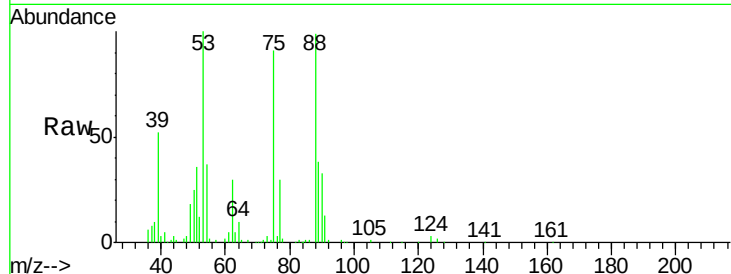
#81
trans-1,4-Dichloro-2-butene
Concen: 81.394 ug/l
RT: 12.51 min Scan# 1740
Delta R.T. -0.00 min
Lab File: VW012193.D
Acq: 27 Aug 2019 01:07

Instrument :
MSVOA_W
ClientSampleId :
S602-M-1.0-1.5-082319MSD

Tot Ion	Ratio	Lower	Upper
75	100		
53	111.8	89.4	134.0
89	41.4	34.5	51.7

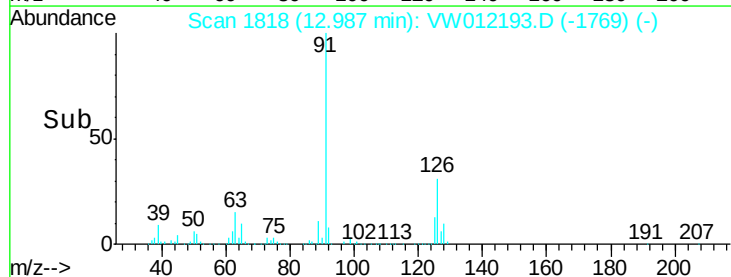
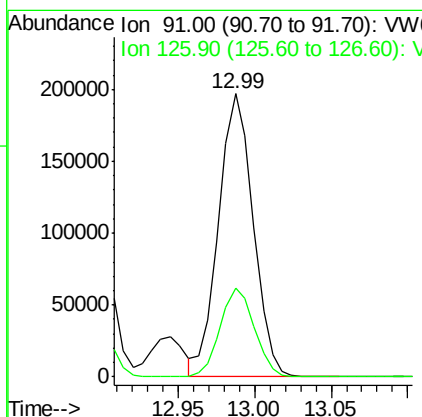
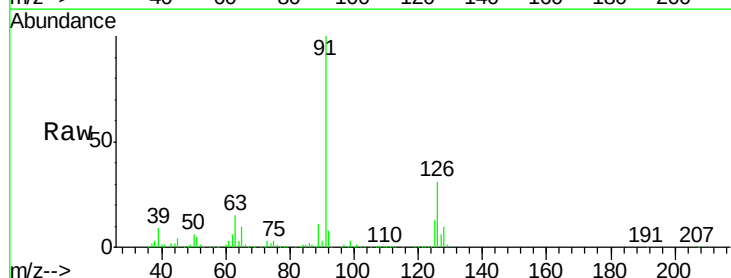
Manual Integrations
APPROVED

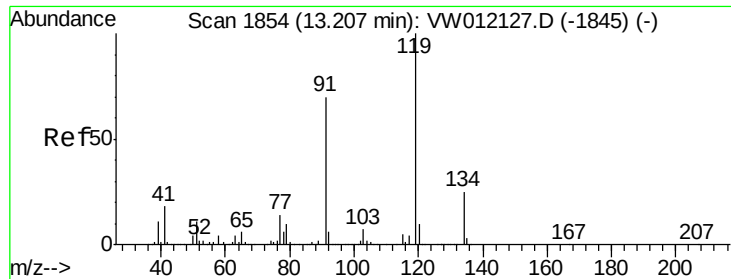
MMDadoda
8/27/2019 11:04:41 AM



#82
4-Chlorotoluene
Concen: 61.118 ug/l
RT: 12.99 min Scan# 1818
Delta R.T. -0.00 min
Lab File: VW012193.D
Acq: 27 Aug 2019 01:07

Tgt Ion	Ratio	Lower	Upper
91	100		
126	31.2	15.6	46.8





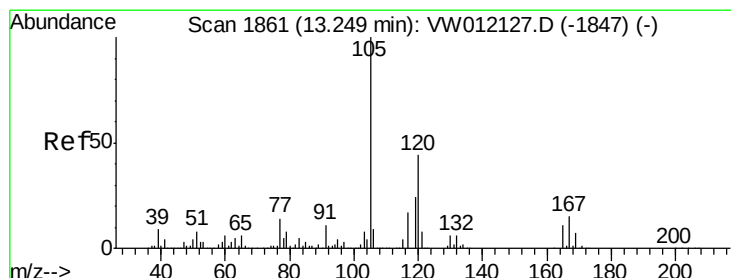
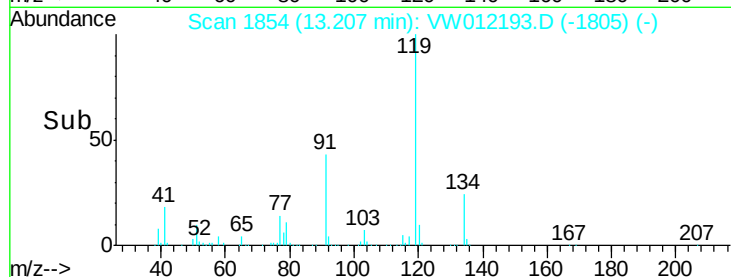
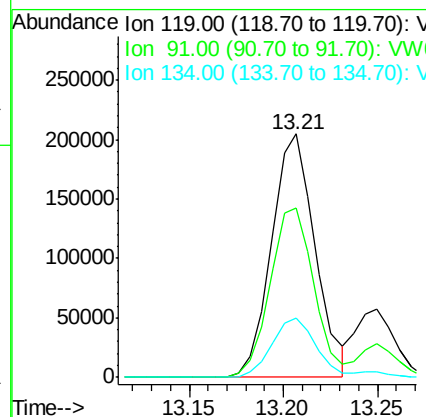
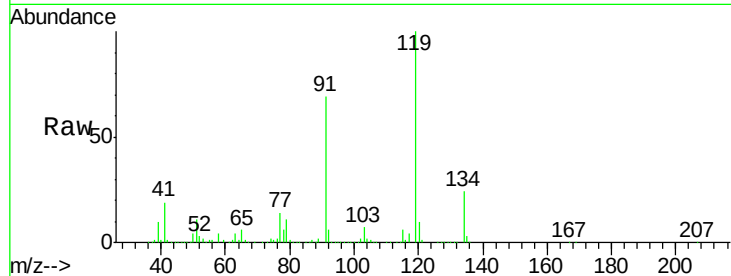
#83
 tert-Butylbenzene
 Concen: 66.525 ug/l
 RT: 13.21 min Scan# 1854
 Delta R.T. -0.00 min
 Lab File: VW012193.D
 Acq: 27 Aug 2019 01:07

Instrument :
 MSVOA_W
 ClientSampleId :
 S602-M-1.0-1.5-082319MSD

Tot Ion	Ratio	Lower	Upper
119	100		
91	69.9	34.8	104.3
134	24.7	13.3	39.8

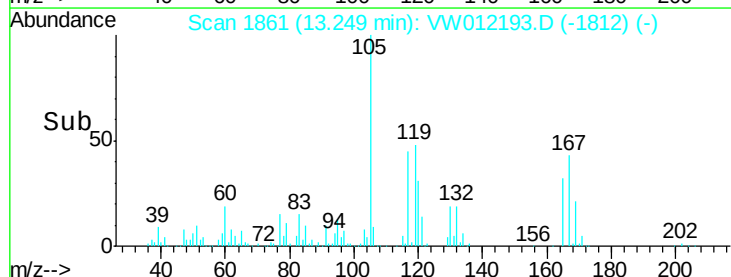
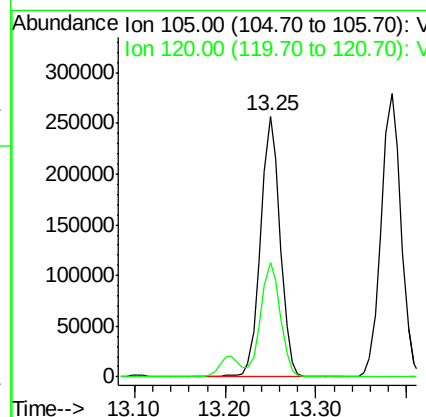
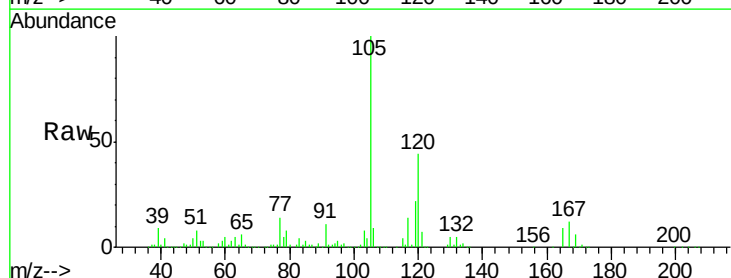
Manual Integrations
 APPROVED

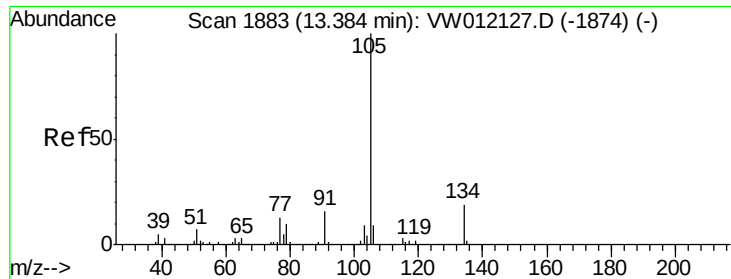
MMDadoda
 8/27/2019 11:04:41 AM



#84
 1,2,4-Trimethylbenzene
 Concen: 65.867 ug/l
 RT: 13.25 min Scan# 1861
 Delta R.T. -0.00 min
 Lab File: VW012193.D
 Acq: 27 Aug 2019 01:07

Tgt Ion	Ratio	Lower	Upper
105	100		
120	43.5	21.9	65.7





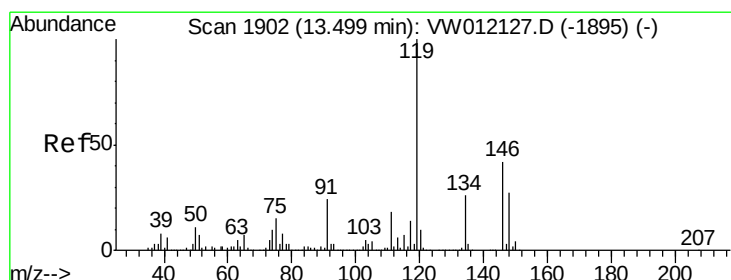
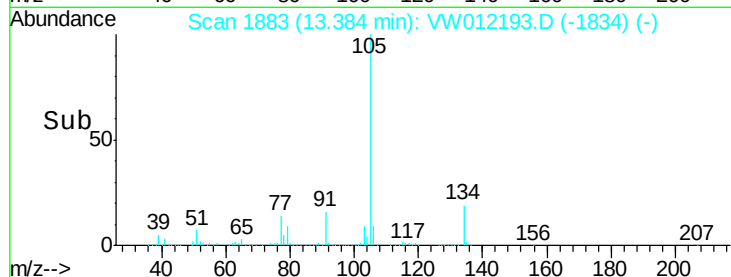
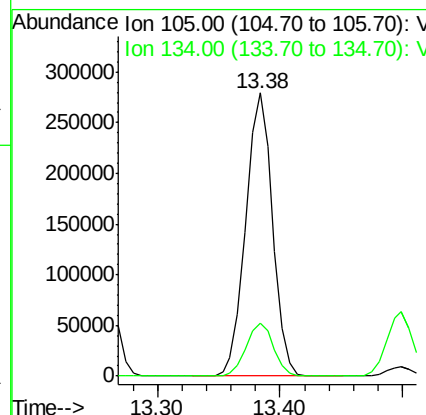
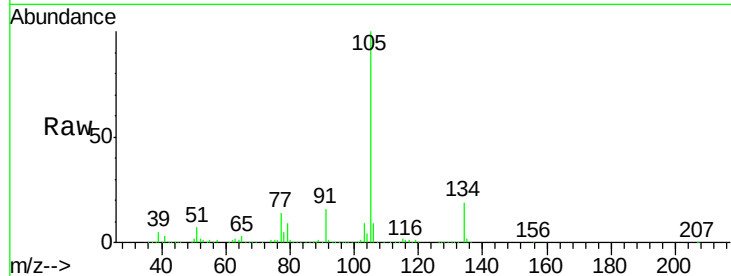
#85
 sec-Butylbenzene
 Concen: 59.973 ug/l
 RT: 13.38 min Scan# 1883
 Delta R.T. -0.00 min
 Lab File: VW012193.D
 Acq: 27 Aug 2019 01:07

Instrument :
 MSVOA_W
 ClientSampleId :
 S602-M-1.0-1.5-082319MSD

Tot Ion	Ratio	Lower	Upper
105	100		
134	19.3	9.8	29.4

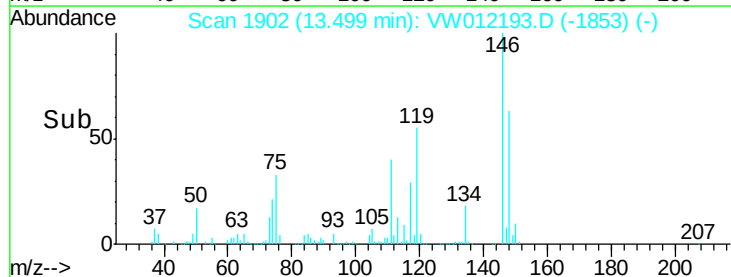
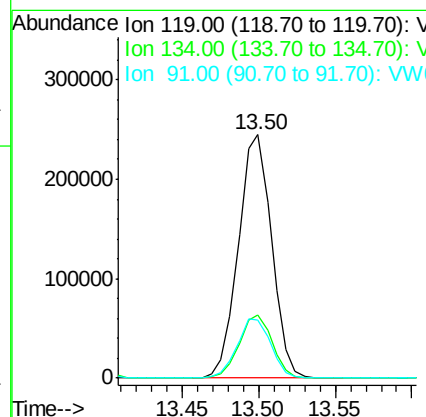
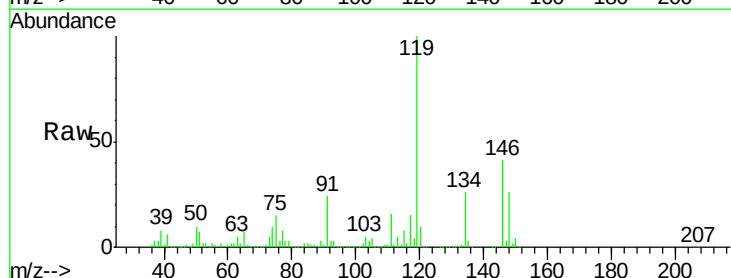
Manual Integrations
 APPROVED

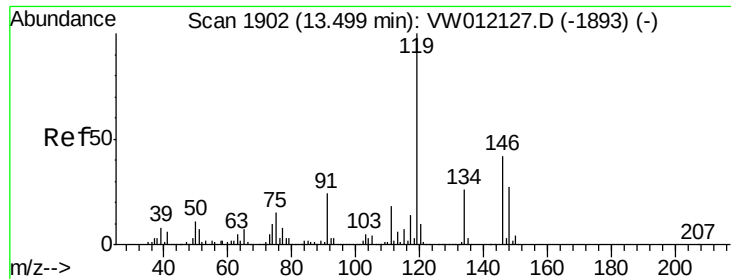
MMDadoda
 8/27/2019 11:04:41 AM



#86
 p-Isopropyltoluene
 Concen: 58.429 ug/l
 RT: 13.50 min Scan# 1902
 Delta R.T. -0.00 min
 Lab File: VW012193.D
 Acq: 27 Aug 2019 01:07

Tgt Ion	Ratio	Lower	Upper
119	100		
134	25.6	12.8	38.3
91	24.7	12.3	36.9





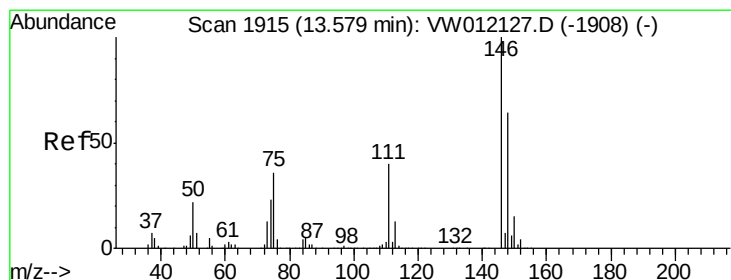
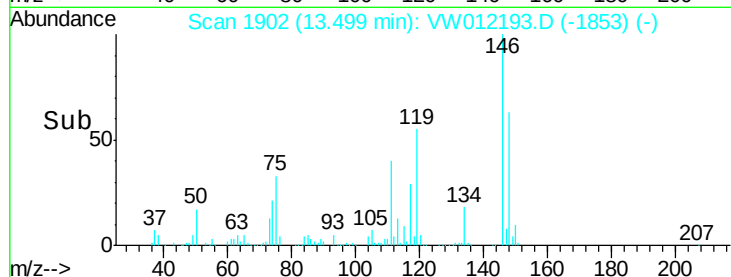
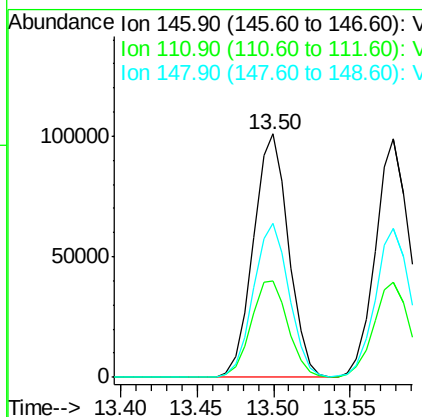
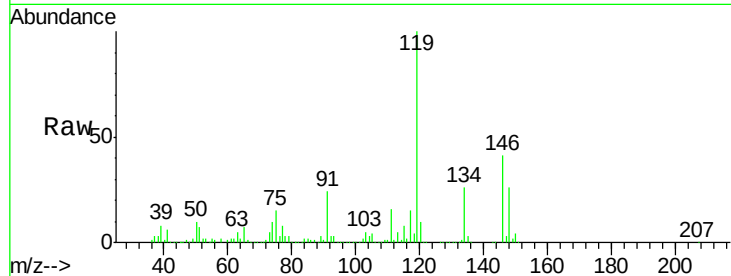
#87
 1,3-Dichlorobenzene
 Concen: 54.963 ug/l
 RT: 13.50 min Scan# 1902
 Delta R.T. -0.00 min
 Lab File: VW012193.D
 Acq: 27 Aug 2019 01:07

Instrument :
 MSVOA_W
 ClientSampleId :
 S602-M-1.0-1.5-082319MSD

Tot Ion	Ratio	Resp	Lower	Upper
146	100	161929		
111	41.3	20.9	62.7	
148	63.8	32.2	96.6	

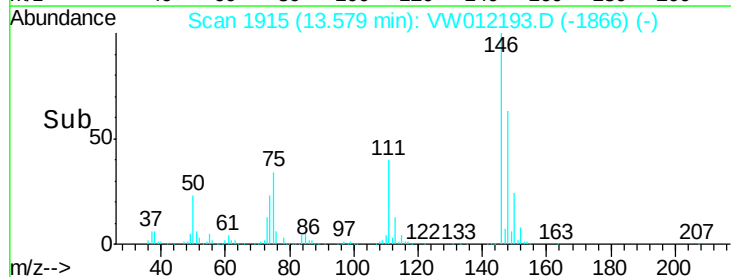
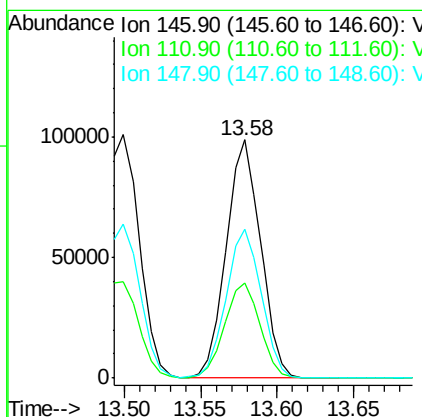
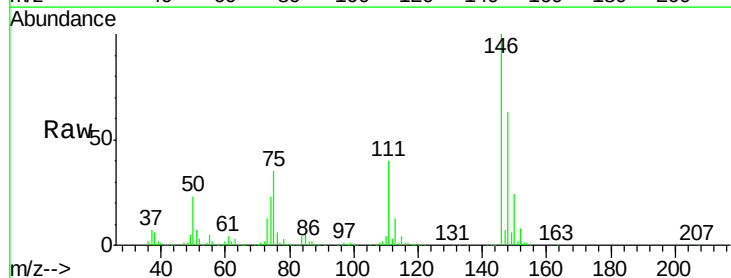
Manual Integrations
 APPROVED

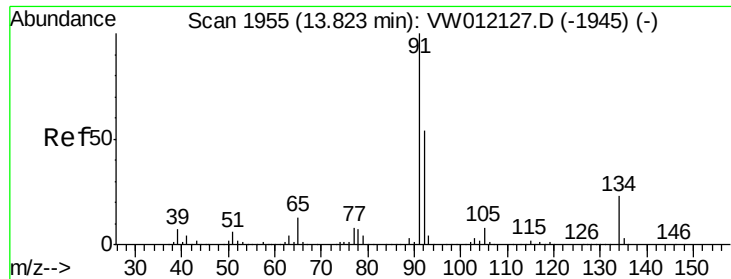
MMDadoda
 8/27/2019 11:04:41 AM



#88
 1,4-Dichlorobenzene
 Concen: 52.768 ug/l
 RT: 13.58 min Scan# 1915
 Delta R.T. -0.00 min
 Lab File: VW012193.D
 Acq: 27 Aug 2019 01:07

Tgt Ion	Ratio	Resp	Lower	Upper
146	100	154361		
111	41.2	20.0	60.0	
148	63.9	32.1	96.3	





#89

n-Butylbenzene

Concen: 46.984 ug/l

RT: 13.82 min Scan# 1955

Delta R.T. -0.00 min

Lab File: VW012193.D

Acq: 27 Aug 2019 01:07

Instrument :

MSVOA_W

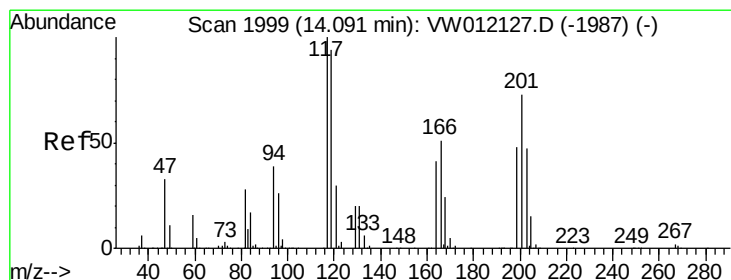
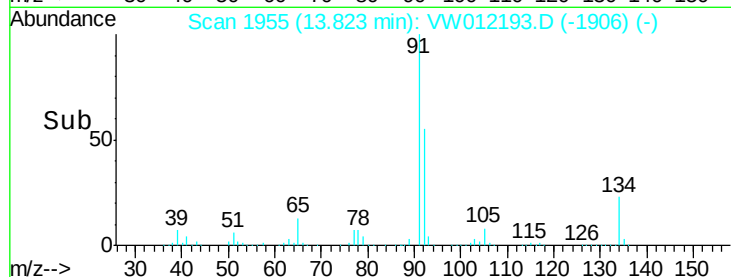
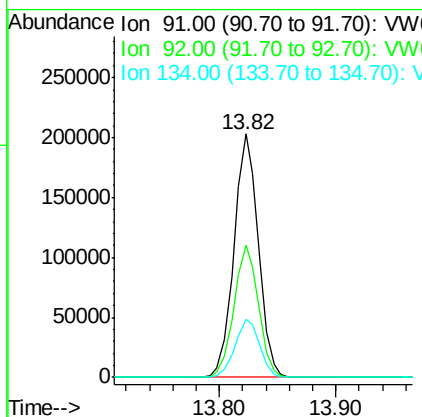
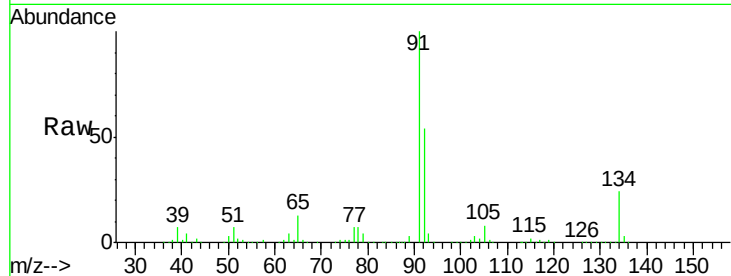
ClientSampleId :

S602-M-1.0-1.5-082319MSD

Tot Ion:	91	Resp:	294603
Ion Ratio	Lower	Upper	
91	100		
92	54.3	27.1	81.2
134	24.3	12.2	36.4

Manual Integrations
APPROVED

MMDadoda
8/27/2019 11:04:41 AM



#90

Hexachloroethane

Concen: 60.924 ug/l

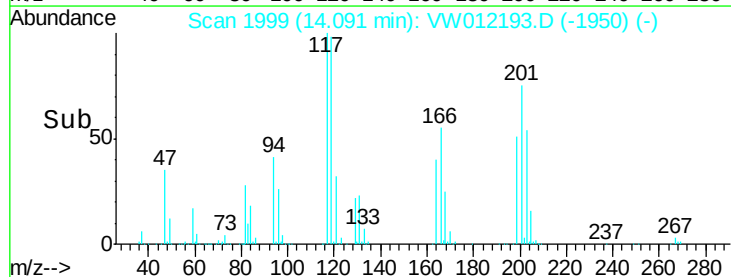
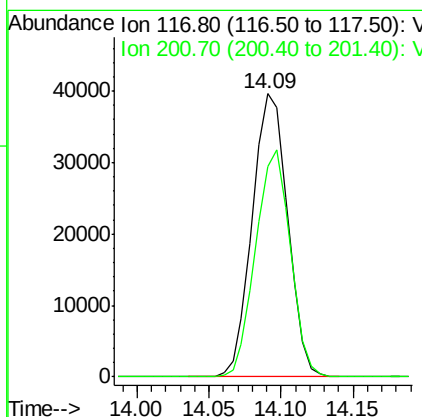
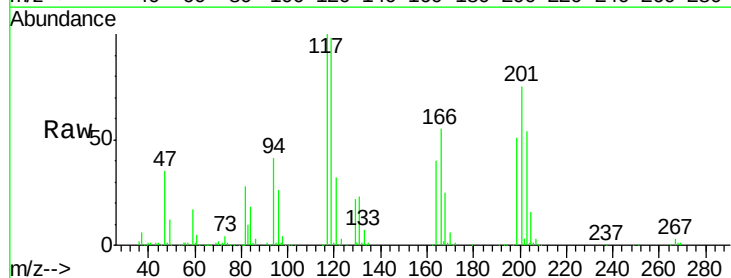
RT: 14.09 min Scan# 1999

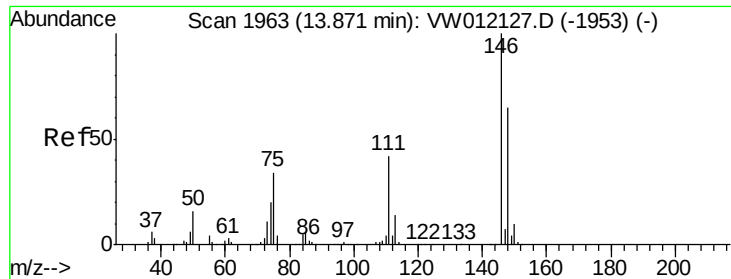
Delta R.T. -0.00 min

Lab File: VW012193.D

Acq: 27 Aug 2019 01:07

Tgt Ion:	117	Resp:	67397
Ion Ratio	Lower	Upper	
117	100		
201	78.5	38.6	115.7





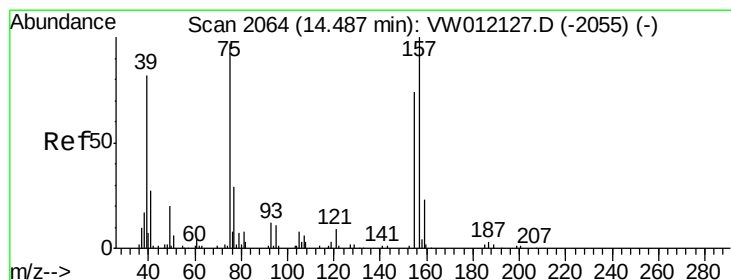
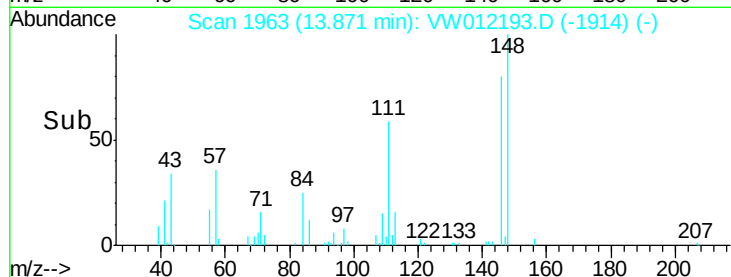
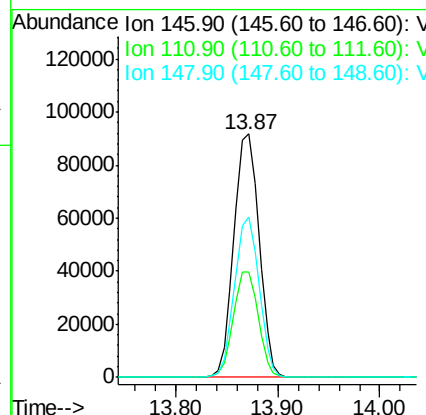
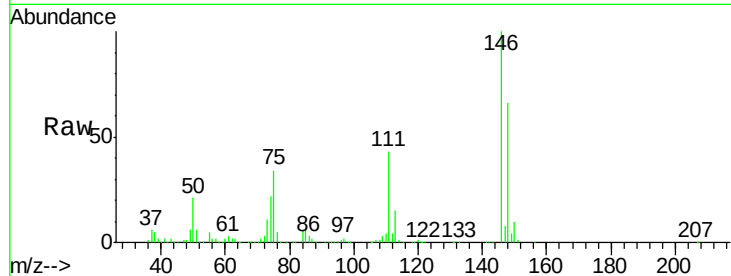
#91
 1,2-Dichlorobenzene
 Concen: 60.766 ug/l
 RT: 13.87 min Scan# 1963
 Delta R.T. -0.00 min
 Lab File: VW012193.D
 Acq: 27 Aug 2019 01:07

Instrument :
 MSVOA_W
 ClientSampleId :
 S602-M-1.0-1.5-082319MSD

Tot Ion	Ratio	Lower	Upper
146	100		
111	42.8	21.2	63.6
148	64.1	32.5	97.4

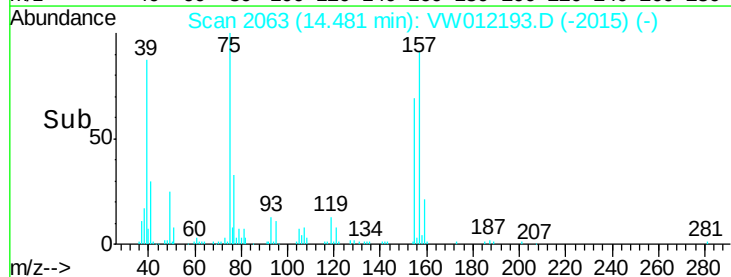
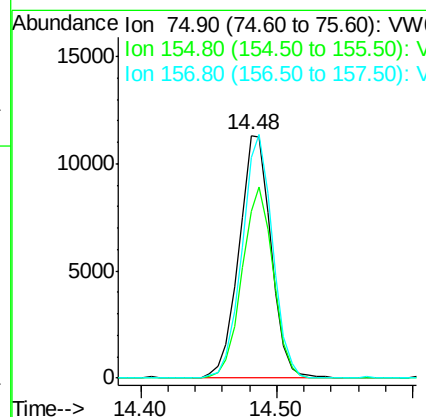
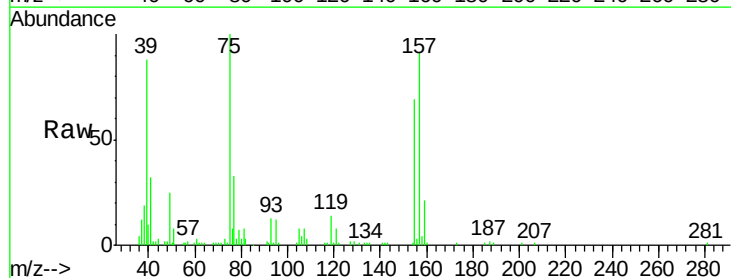
Manual Integrations
 APPROVED

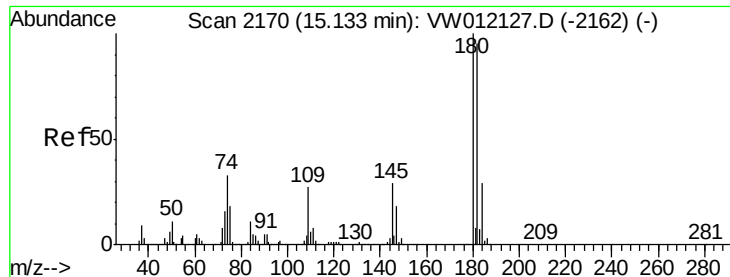
MMDadoda
 8/27/2019 11:04:41 AM



#92
 1,2-Dibromo-3-Chloropropane
 Concen: 86.495 ug/l
 RT: 14.48 min Scan# 2063
 Delta R.T. -0.01 min
 Lab File: VW012193.D
 Acq: 27 Aug 2019 01:07

Tgt Ion	Ratio	Lower	Upper
75	100		
155	76.3	37.5	112.3
157	95.3	50.5	151.5





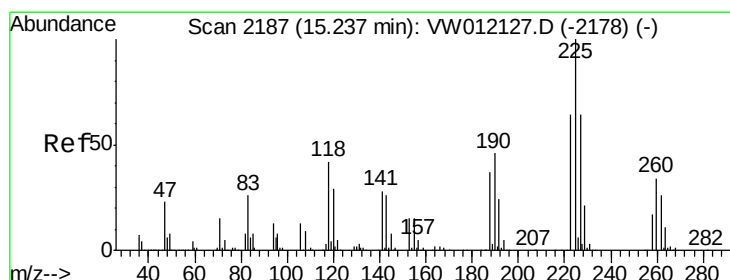
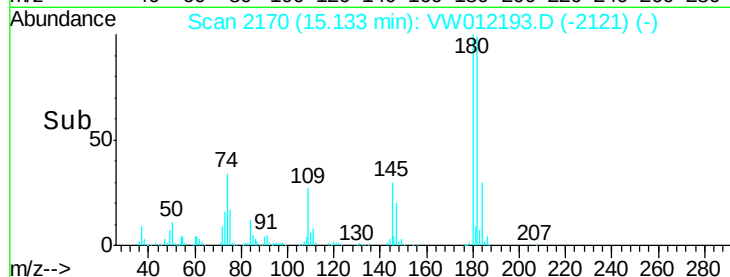
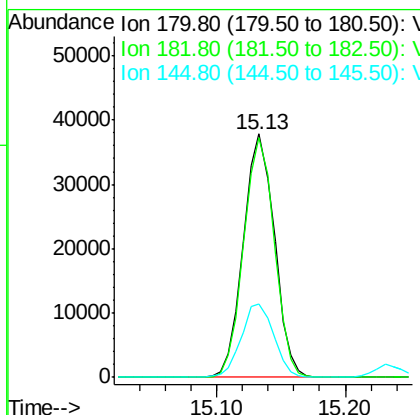
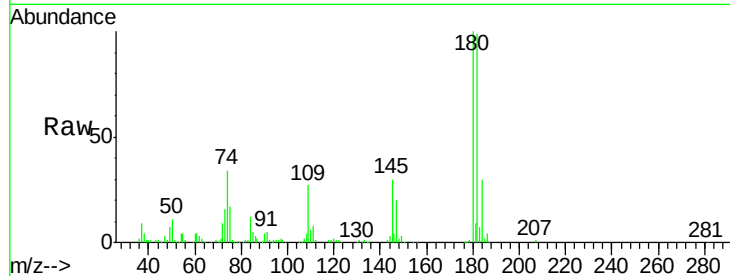
#93
 1,2,4-Trichlorobenzene
 Concen: 35.337 ug/l
 RT: 15.13 min Scan# 2170
 Delta R.T. -0.00 min
 Lab File: VW012193.D
 Acq: 27 Aug 2019 01:07

Instrument :
 MSVOA_W
 ClientSampleId :
 S602-M-1.0-1.5-082319MSD

Tot Ion	Ratio	Resp	Lower	Upper
180	100	63114		
182	96.7	47.8	143.4	
145	31.7	15.0	45.1	

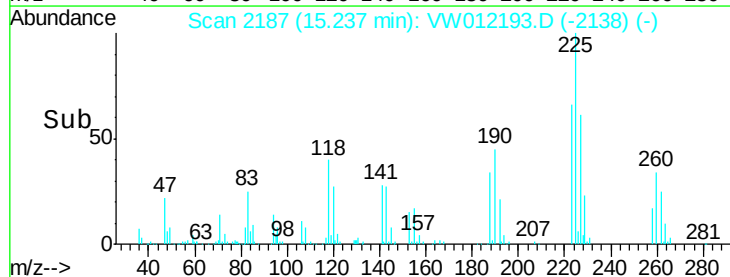
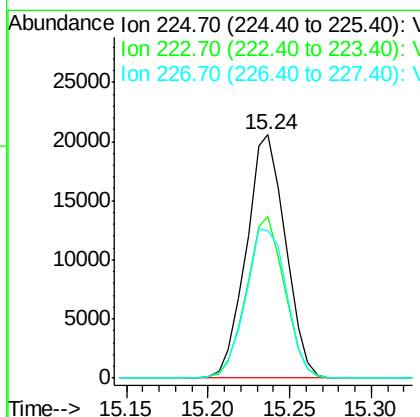
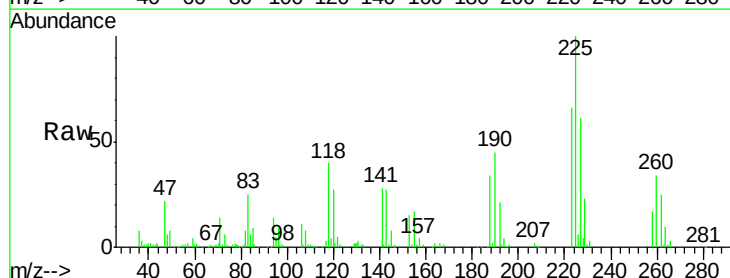
Manual Integrations
 APPROVED

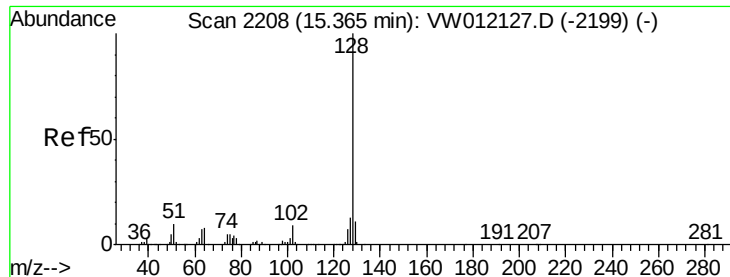
MMDadoda
 8/27/2019 11:04:41 AM



#94
 Hexachlorobutadiene
 Concen: 29.266 ug/l
 RT: 15.24 min Scan# 2187
 Delta R.T. -0.00 min
 Lab File: VW012193.D
 Acq: 27 Aug 2019 01:07

Tgt Ion	Ratio	Resp	Lower	Upper
225	100	34514		
223	64.6	32.3	96.8	
227	64.0	32.9	98.6	





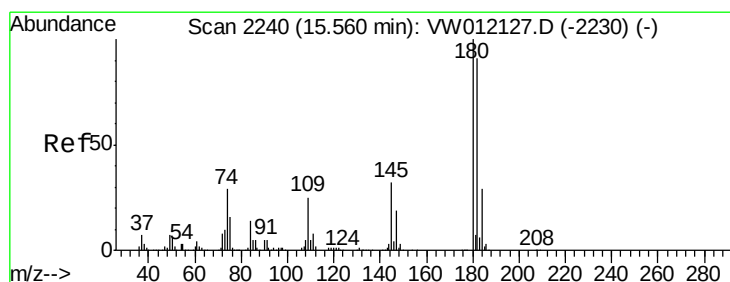
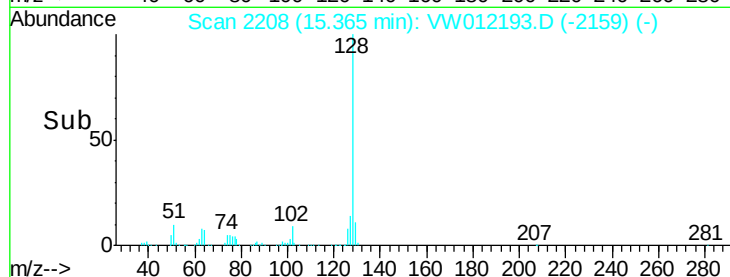
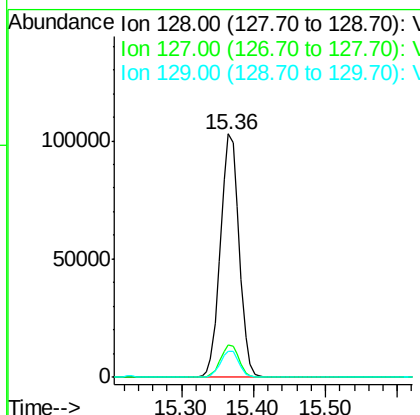
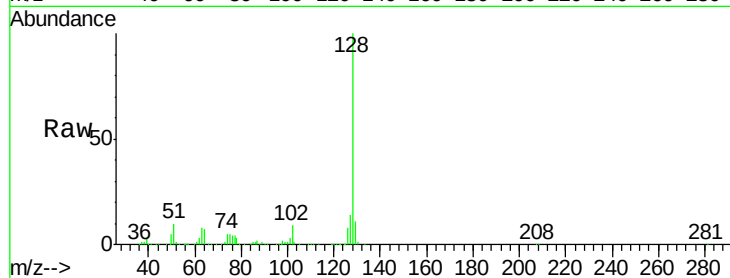
#95
Naphthalene
Concen: 52.830 ug/l
RT: 15.36 min Scan# 2208
Delta R.T. 0.00 min
Lab File: VW012193.D
Acq: 27 Aug 2019 01:07

Instrument :
MSVOA_W
ClientSampleId :
S602-M-1.0-1.5-082319MSD

Tot Ion	Ratio	Resp	Lower	Upper
128	100	186092		
127	13.4	10.7	16.1	
129	10.9	8.7	13.1	

Manual Integrations
APPROVED

MMDadoda
8/27/2019 11:04:41 AM



#96
1,2,3-Trichlorobenzene
Concen: 38.551 ug/l
RT: 15.55 min Scan# 2239
Delta R.T. -0.01 min
Lab File: VW012193.D
Acq: 27 Aug 2019 01:07

Tgt Ion	Ratio	Resp	Lower	Upper
180	100	60074		
182	92.6	47.1	141.3	
145	31.3	16.2	48.5	

