

Data Path : Z:\VOASRV\HPCHEM1\MSVOA W\DATA\WV102319\
 Data File : VW013708.D
 Acq On : 24 Oct 2019 10:29
 Operator : SY/VA
 Sample : VSTDCCC050
 Misc : 5.00G/5ML/MSVOA W/SOIL
 ALS Vial : 53 Sample Multiplier: 1

Instrument :
 MSVOA_W
 ClientSampleId :
 VSTDCCC050EC

Manual Integrations
 APPROVED

MMDadoda
 10/24/2019 1:25:31 PM

Quant Time: Oct 24 11:02:03 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_W\METHOD\82W102319S.M
 Quant Title : SW846 8260
 QLast Update : Wed Oct 23 14:11:46 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	7.95	168	240153	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	8.84	114	351531	50.00	ug/l	0.00
63) Chlorobenzene-d5	11.63	117	310697	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.56	152	159648	50.00	ug/l	0.00

System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	8.30	65	113258	62.87	ug/l	0.00
Spiked Amount	50.000		Recovery	=	125.74%	
35) Dibromofluoromethane	7.88	113	108899	55.75	ug/l	0.00
Spiked Amount	50.000		Recovery	=	111.50%	
50) Toluene-d8	10.32	98	429068	53.91	ug/l	0.00
Spiked Amount	50.000		Recovery	=	107.82%	
62) 4-Bromofluorobenzene	12.62	95	148931	55.26	ug/l	0.00
Spiked Amount	50.000		Recovery	=	110.52%	

Target Compounds					Qvalue
2) Dichlorodifluoromethane	2.01	85	52317	41.351	ug/l 99
3) Chloromethane	2.21	50	60155	44.241	ug/l 100
4) Vinyl Chloride	2.37	62	94777	46.155	ug/l 95
5) Bromomethane	2.78	94	66013	48.881	ug/l 97
6) Chloroethane	2.92	64	60398	48.609	ug/l 97
7) Trichlorofluoromethane	3.26	101	52941	41.276	ug/l 99
8) Diethyl Ether	3.68	74	60339	58.229	ug/l 97
9) 1,1,2-Trichlorotrifluoroet	4.07	101	105864	50.772	ug/l 98
10) Methyl Iodide	4.28	142	172872	50.878	ug/l 99
11) Tert butyl alcohol	5.16	59	41555	386.386	ug/l 97
12) 1,1-Dichloroethene	4.04	96	107224	49.783	ug/l 94
13) Acrolein	3.90	56	30435	247.010	ug/l 96
14) Allyl chloride	4.67	41	168708	50.941	ug/l 98
15) Acrylonitrile	5.36	53	159650	378.895	ug/l 98
16) Acetone	4.12	43	123505	323.326	ug/l 96
17) Carbon Disulfide	4.39	76	300167	48.527	ug/l 99
18) Methyl Acetate	4.67	43	94829	90.563	ug/l 99
19) Methyl tert-butyl Ether	5.42	73	164148	63.510	ug/l 97
20) Methylene Chloride	4.92	84	120258	57.979	ug/l 97
21) trans-1,2-Dichloroethene	5.42	96	119299	51.463	ug/l 97
22) Diisopropyl ether	6.31	45	335804	55.586	ug/l 96
23) Vinyl Acetate	6.25	43	999760	285.214	ug/l 100
24) 1,1-Dichloroethane	6.21	63	202683	52.976	ug/l 99
25) 2-Butanone	7.17	43	204268	371.955	ug/l 95
26) 2,2-Dichloropropane	7.16	77	94284	42.616	ug/l 100
27) cis-1,2-Dichloroethene	7.17	96	130412	52.965	ug/l 99
28) Bromochloromethane	7.51	49	86715	63.249	ug/l # 97
29) Tetrahydrofuran	7.53	42	135345	398.079	ug/l 99
30) Chloroform	7.67	83	201276	53.217	ug/l 96
31) Cyclohexane	7.96	56	189849	47.416	ug/l 98
32) 1,1,1-Trichloroethane	7.87	97	156405	52.697	ug/l 99
36) 1,1-Dichloropropene	8.08	75	162967	49.779	ug/l 98
37) Ethyl Acetate	7.25	43	87344	69.696	ug/l 98
38) Carbon Tetrachloride	8.07	117	147755	50.119	ug/l 96

Data Path : Z:\VOASRV\HPCHEM1\MSVOA W\DATA\WV102319\
 Data File : VW013708.D
 Acq On : 24 Oct 2019 10:29
 Operator : SY/VA
 Sample : VSTDCCC050
 Misc : 5.00G/5ML/MSVOA W/SOIL
 ALS Vial : 53 Sample Multiplier: 1

Instrument :
 MSVOA_W
 ClientSampleID :
 VSTDCCC050EC

Manual Integrations
 APPROVED

MMDadoda
 10/24/2019 1:25:31 PM

Quant Time: Oct 24 11:02:03 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_W\METHOD\82W102319S.M
 Quant Title : SW846 8260
 QLast Update : Wed Oct 23 14:11:46 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
39) Methylcyclohexane	9.34	83	205808	48.679	ug/l	97
40) Benzene	8.32	78	471449	50.885	ug/l	99
41) Methacrylonitrile	7.48	41	47047	60.201	ug/l	95
42) 1,2-Dichloroethane	8.40	62	136273	58.368	ug/l	100
43) Isopropyl Acetate	8.42	43	158335	66.005	ug/l	98
44) Trichloroethene	9.09	130	136497	51.432	ug/l	99
45) 1,2-Dichloropropane	9.37	63	116913	52.830	ug/l	97
46) Dibromomethane	9.46	93	64150	59.725	ug/l	99
47) Bromodichloromethane	9.65	83	152926	55.026	ug/l	97
48) Methyl methacrylate	9.43	41	82581	69.420	ug/l	99
49) 1,4-Dioxane	9.45	88	23393	1473.859	ug/l #	98
51) 4-Methyl-2-Pentanone	10.21	43	430569	361.208	ug/l	99
52) Toluene	10.38	92	306518	51.289	ug/l	99
53) t-1,3-Dichloropropene	10.60	75	154095	54.771	ug/l	98
54) cis-1,3-Dichloropropene	10.07	75	179001	51.569	ug/l	98
55) 1,1,2-Trichloroethane	10.79	97	96438	60.245	ug/l	96
56) Ethyl methacrylate	10.65	69	134615	67.215	ug/l	99
57) 1,3-Dichloropropane	10.93	76	161150	58.664	ug/l	99
58) 2-Chloroethyl Vinyl ether	9.92	63	316126	342.965	ug/l	98
59) 2-Hexanone	10.97	43	298469	363.200	ug/l	98
60) Dibromochloromethane	11.13	129	110627	58.206	ug/l	100
61) 1,2-Dibromoethane	11.23	107	92706	61.215	ug/l	99
64) Tetrachloroethene	10.86	164	140432	59.158	ug/l	99
65) Chlorobenzene	11.66	112	322691	50.542	ug/l	100
66) 1,1,1,2-Tetrachloroethane	11.73	131	117922	52.922	ug/l	99
67) Ethyl Benzene	11.73	91	573716	49.834	ug/l	97
68) m/p-Xylenes	11.83	106	445698	100.204	ug/l	97
69) o-Xylene	12.16	106	207555	50.767	ug/l	97
70) Styrene	12.18	104	362178	51.560	ug/l	99
71) Bromoform	12.35	173	72550	62.044	ug/l #	98
73) Isopropylbenzene	12.46	105	563990	49.193	ug/l	100
74) N-amyl acetate	12.27	43	135629	61.155	ug/l	99
75) 1,1,2,2-Tetrachloroethane	12.71	83	114266	63.158	ug/l	98
76) 1,2,3-Trichloropropane	12.77	75	90154m	78.634	ug/l	
77) Bromobenzene	12.74	156	140810	51.413	ug/l	97
78) n-propylbenzene	12.80	91	654270	49.305	ug/l	100
79) 2-Chlorotoluene	12.89	91	371100	49.764	ug/l	99
80) 1,3,5-Trimethylbenzene	12.94	105	481207	49.721	ug/l	100
81) trans-1,4-Dichloro-2-buten	12.51	75	35054	57.782	ug/l	97
82) 4-Chlorotoluene	12.99	91	386858	49.414	ug/l	99
83) tert-Butylbenzene	13.21	119	428836	49.918	ug/l	100
84) 1,2,4-Trimethylbenzene	13.25	105	476609	49.922	ug/l	99
85) sec-Butylbenzene	13.38	105	578743	49.265	ug/l	99
86) p-Isopropyltoluene	13.50	119	537960	49.160	ug/l	99
87) 1,3-Dichlorobenzene	13.50	146	263958	49.743	ug/l	100
88) 1,4-Dichlorobenzene	13.58	146	261453	49.595	ug/l	99
89) n-Butylbenzene	13.82	91	467785	47.359	ug/l	100
90) Hexachloroethane	14.09	117	95708	50.317	ug/l	99
91) 1,2-Dichlorobenzene	13.87	146	240090	52.181	ug/l	99
92) 1,2-Dibromo-3-Chloropropan	14.49	75	18786	68.667	ug/l	98

Data Path : Z:\V0ASRV\HPCHEM1\MSVOA W\DATA\VW102319\
Data File : VW013708.D
Acq On : 24 Oct 2019 10:29
Operator : SY/VA
Sample : VSTDCCC050
Misc : 5.00G/5ML/MSVOA W/SOIL
ALS Vial : 53 Sample Multiplier: 1

Instrument :
MSVOA_W
ClientSampleId :
VSTDCCC050EC

Manual Integrations
APPROVED

MMDadoda
10/24/2019 1:25:31 PM

Quant Time: Oct 24 11:02:03 2019
Quant Method : Z:\V0ASRV\HPCHEM1\MSVOA_W\METHOD\82W102319S.M
Quant Title : SW846 8260
QLast Update : Wed Oct 23 14:11:46 2019
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
93) 1,2,4-Trichlorobenzene	15.13	180	161132	48.121	ug/l	97
94) Hexachlorobutadiene	15.24	225	108867	48.160	ug/l	99
95) Naphthalene	15.36	128	333019	63.432	ug/l	100
96) 1,2,3-Trichlorobenzene	15.55	180	152403	52.820	ug/l	99

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

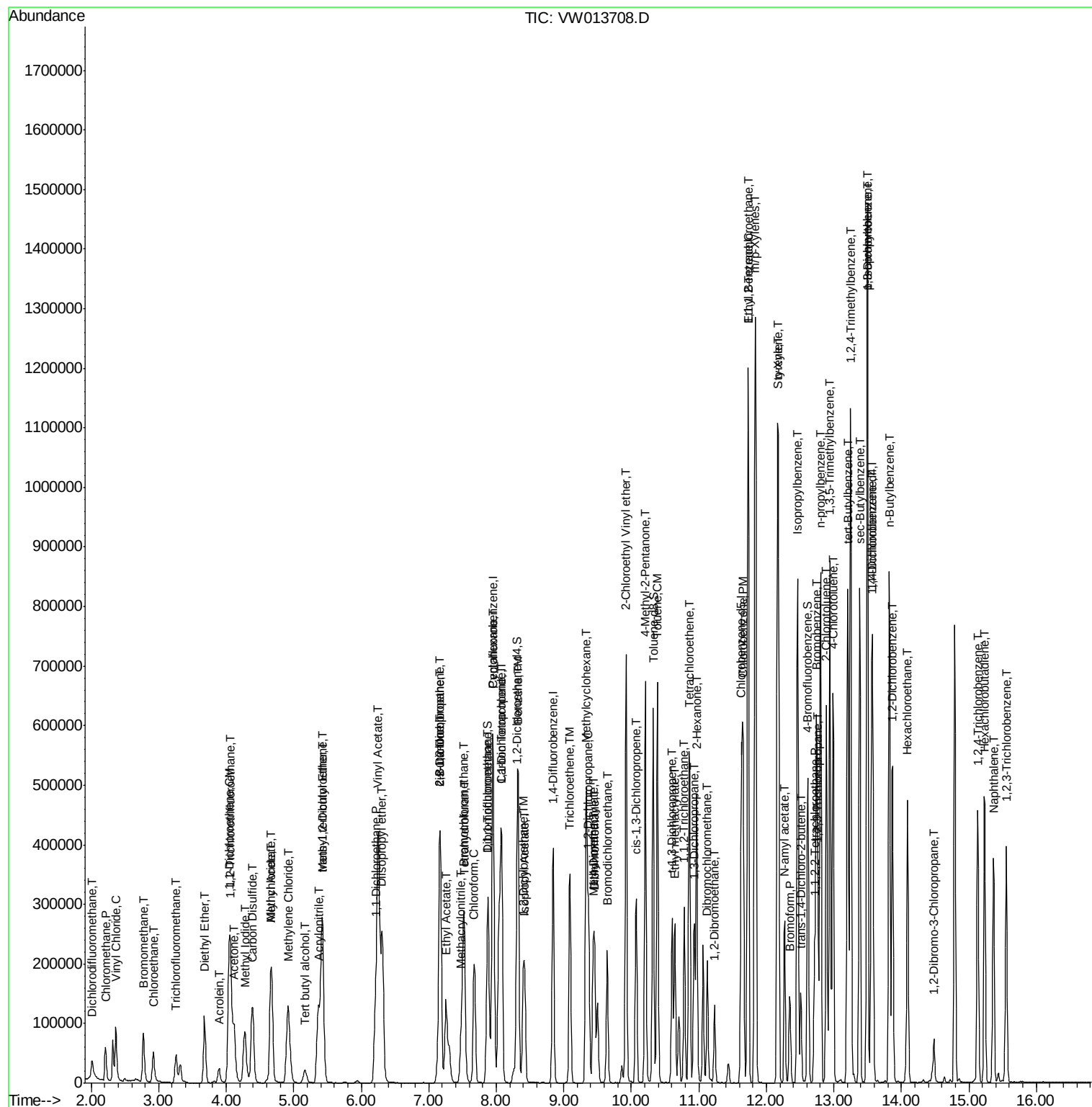
Data Path : Z:\V0ASRV\HPCHEM1\MSVOA W\DATA\VW102319\
Data File : VW013708.D
Acq On : 24 Oct 2019 10:29
Operator : SY/VA
Sample : VSTDCCC050
Misc : 5.00G/5ML/MSVOA W/SOIL
ALS Vial : 53 Sample Multiplier: 1

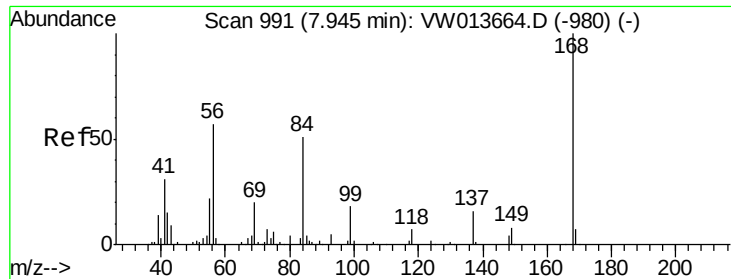
Instrument :
MSVOA_W
ClientSampleId :
VSTDCCC050EC

Manual Integrations
APPROVED

MMDadoda
10/24/2019 1:25:31 PM

Quant Time: Oct 24 11:02:03 2019
Quant Method : Z:\V0ASRV\HPCHEM1\MSVOA_W\METHOD\82W102319S.M
Quant Title : SW846 8260
QLast Update : Wed Oct 23 14:11:46 2019
Response via : Initial Calibration





#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 7.95 min Scan# 992

Delta R.T. 0.01 min

Lab File: VW013708.D

Acq: 24 Oct 2019 10:29

Instrument :

MSVOA_W

ClientSampleId :

VSTDCCC050EC

Tot Ion:168 Resp: 240153

Ion Ratio Lower Upper

168 100

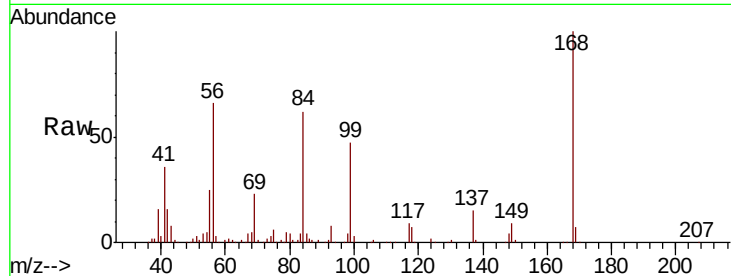
99 47.0 39.0 58.6

Manual Integrations

APPROVED

MMDadoda

10/24/2019 1:25:31 PM



Abundance Ion 167.90 (167.60 to 168.60): VW

Ion 98.90 (98.60 to 99.60): VW

7.95

120000

100000

80000

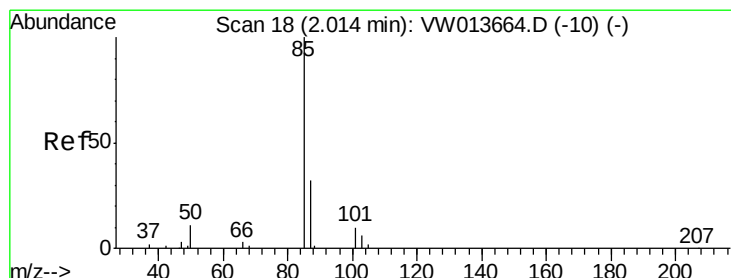
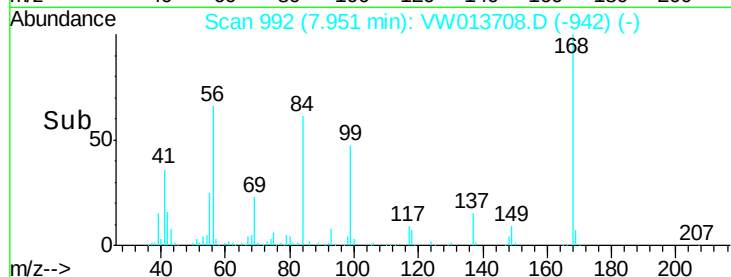
60000

40000

20000

0

Time--> 7.80 7.90 8.00 8.10



#2

Dichlorodifluoromethane

Concen: 41.351 ug/l

RT: 2.01 min Scan# 17

Delta R.T. -0.01 min

Lab File: VW013708.D

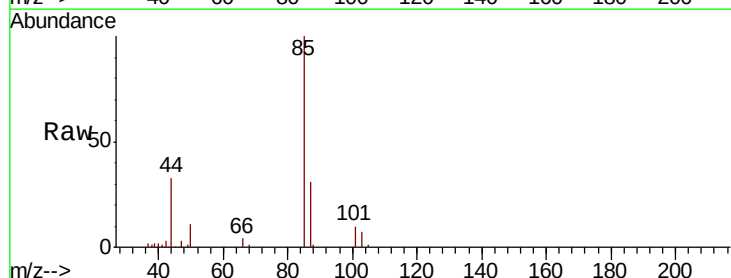
Acq: 24 Oct 2019 10:29

Tgt Ion: 85 Resp: 52317

Ion Ratio Lower Upper

85 100

87 31.3 16.0 48.0



Abundance Ion 84.90 (84.60 to 85.60): VW

Ion 86.90 (86.60 to 87.60): VW

20000

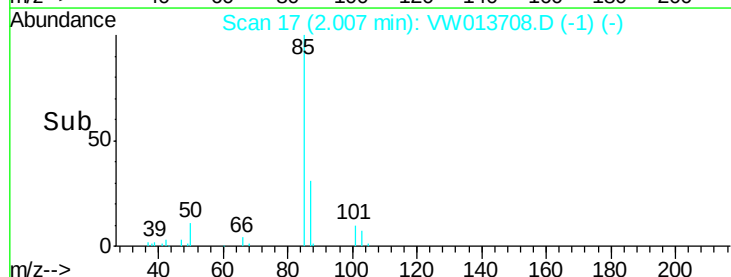
15000

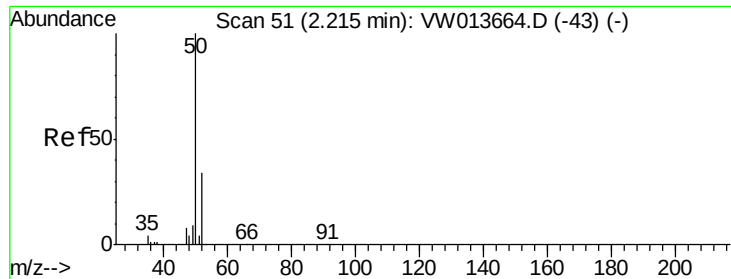
10000

5000

0

Time--> 1.90 2.00 2.10 2.20





#3

Chloromethane

Concen: 44.241 ug/l

RT: 2.21 min Scan# 51

Delta R.T. -0.00 min

Lab File: VW013708.D

Acq: 24 Oct 2019 10:29

Instrument :

MSVOA_W

ClientSampleId :

VSTDCCC050EC

Tot Ion: 50 Resp: 60155

Ion Ratio Lower Upper

50 100

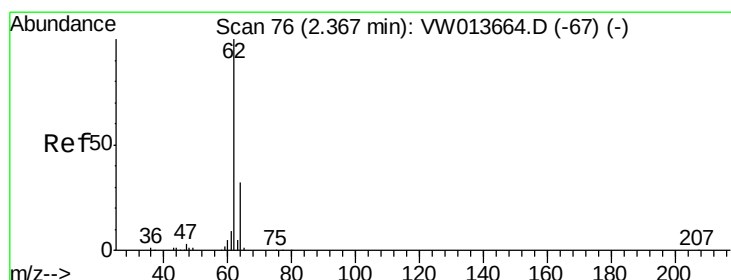
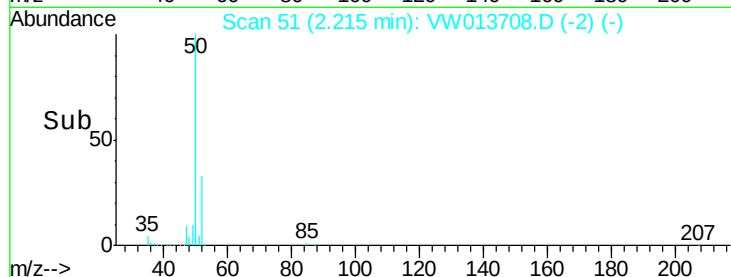
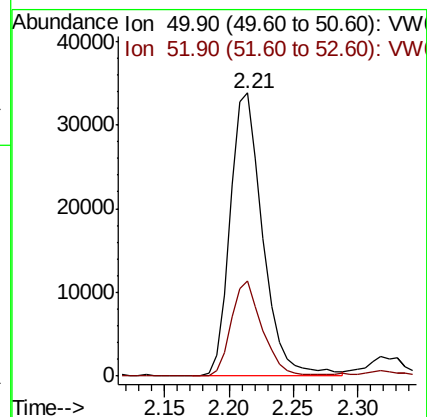
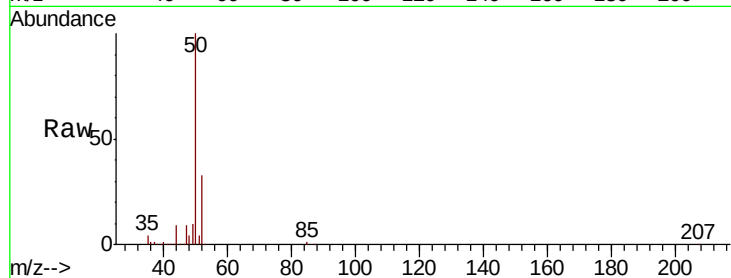
52 33.4 26.9 40.3

Manual Integrations

APPROVED

MMDadoda

10/24/2019 1:25:31 PM



#4

Vinyl Chloride

Concen: 46.155 ug/l

RT: 2.37 min Scan# 76

Delta R.T. -0.00 min

Lab File: VW013708.D

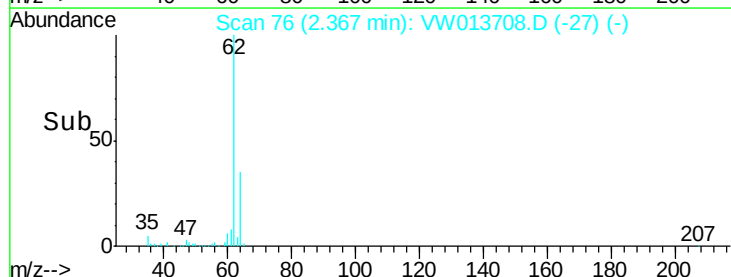
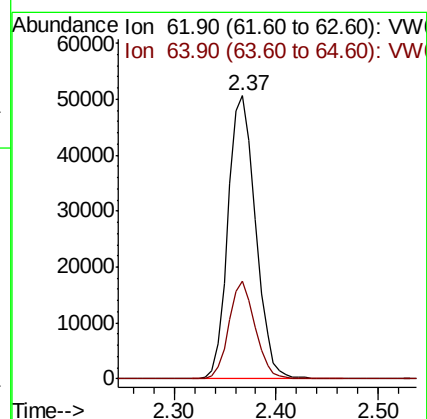
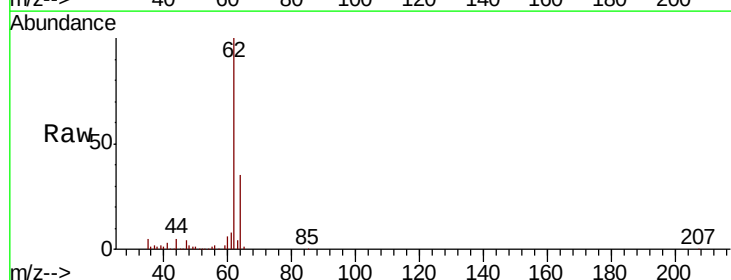
Acq: 24 Oct 2019 10:29

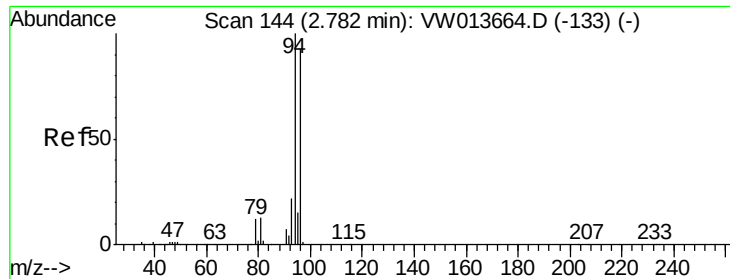
Tgt Ion: 62 Resp: 94777

Ion Ratio Lower Upper

62 100

64 34.7 25.5 38.3





#5

Bromomethane

Concen: 48.881 ug/l

RT: 2.78 min Scan# 143

Delta R.T. -0.01 min

Lab File: VW013708.D

Acq: 24 Oct 2019 10:29

Instrument :

MSVOA_W

ClientSampleId :

VSTDCCC050EC

Tot Ion: 94 Resp: 66013

Ion Ratio Lower Upper

94 100

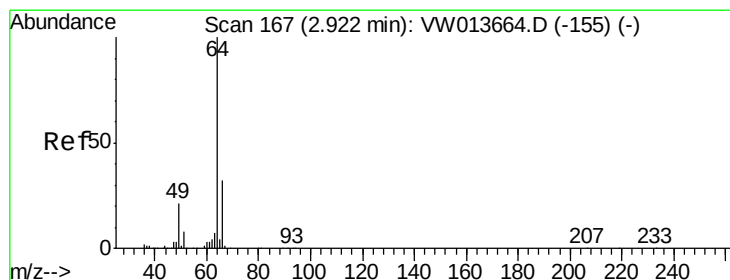
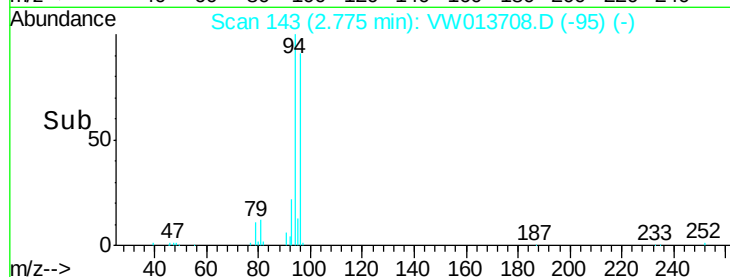
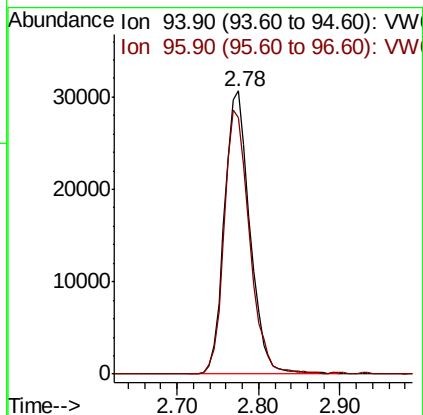
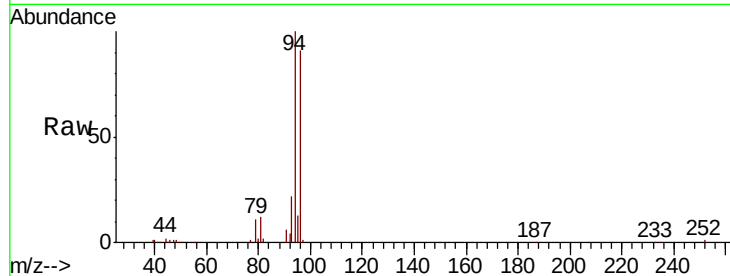
96 90.8 74.6 112.0

Manual Integrations

APPROVED

MMDadoda

10/24/2019 1:25:31 PM



#6

Chloroethane

Concen: 48.609 ug/l

RT: 2.92 min Scan# 167

Delta R.T. -0.00 min

Lab File: VW013708.D

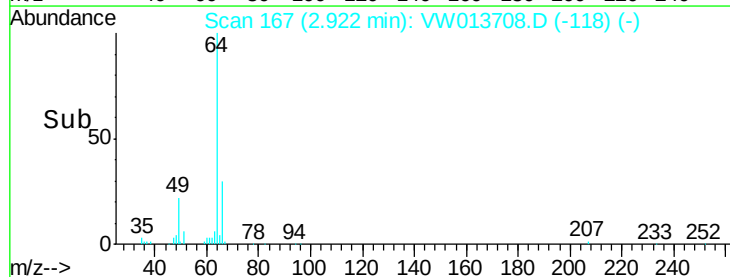
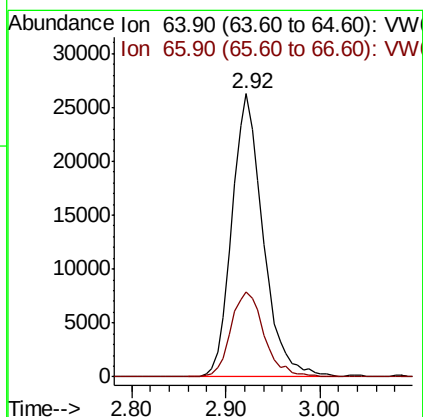
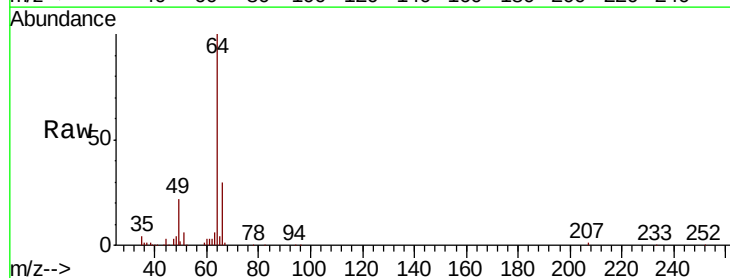
Acq: 24 Oct 2019 10:29

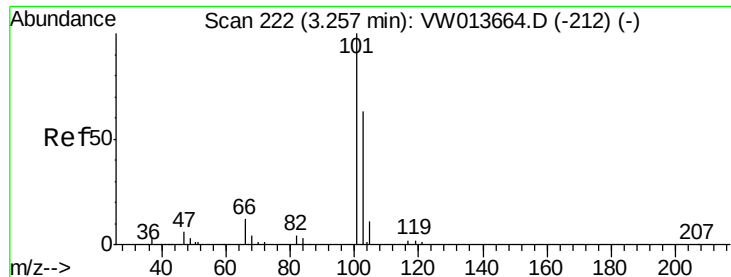
Tgt Ion: 64 Resp: 60398

Ion Ratio Lower Upper

64 100

66 29.9 25.4 38.0





#7

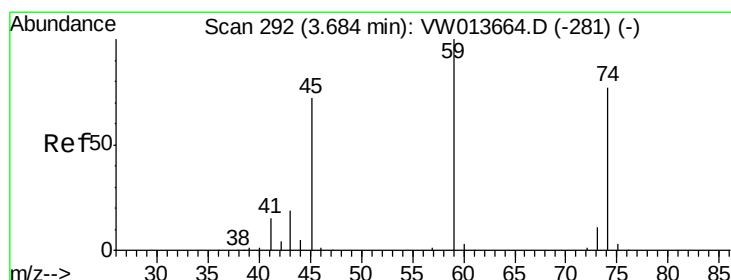
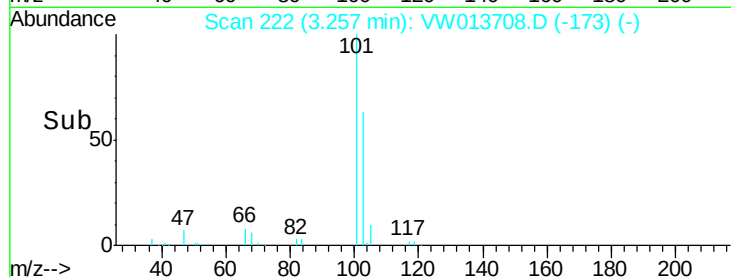
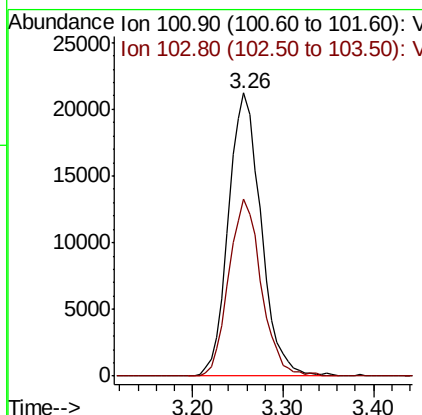
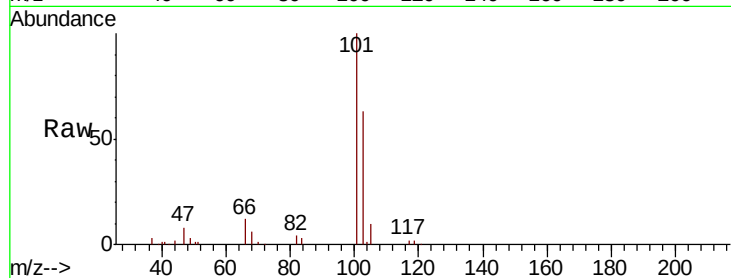
Trichlorofluoromethane
Concen: 41.276 ug/l
RT: 3.26 min Scan# 222
Delta R.T. -0.00 min
Lab File: VW013708.D
Acq: 24 Oct 2019 10:29

Instrument :
MSVOA_W
ClientSampleId :
VSTDCCC050EC

Tot Ion	Ratio	Lower	Upper
101	100		
103	62.8	50.6	76.0

Manual Integrations
APPROVED

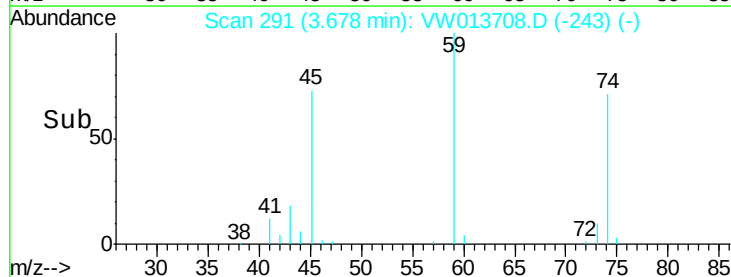
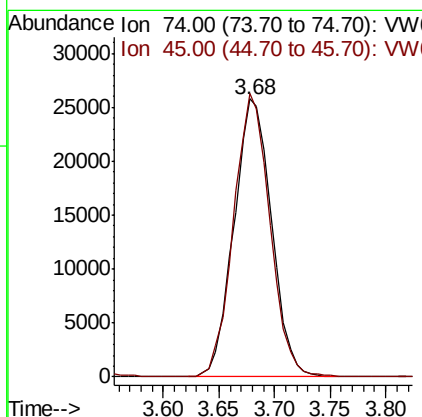
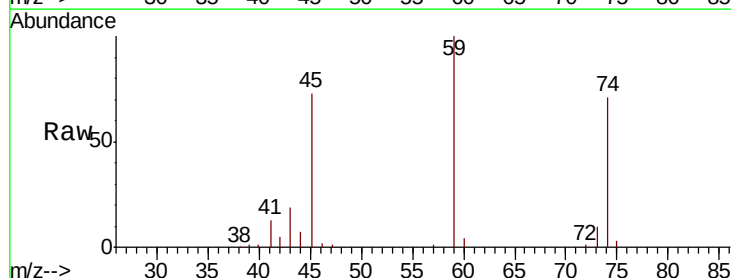
MMDadoda
10/24/2019 1:25:31 PM

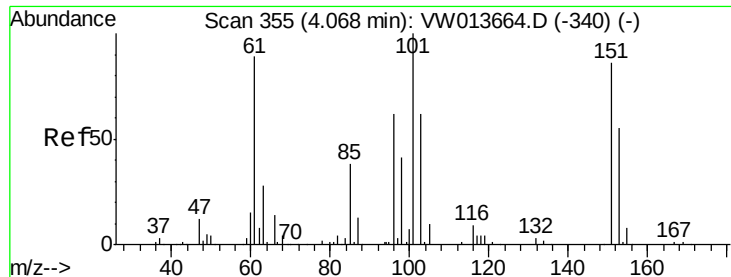


#8

Diethyl Ether
Concen: 58.229 ug/l
RT: 3.68 min Scan# 291
Delta R.T. -0.01 min
Lab File: VW013708.D
Acq: 24 Oct 2019 10:29

Tgt Ion	Ratio	Lower	Upper
74	100		
45	98.8	47.9	143.6





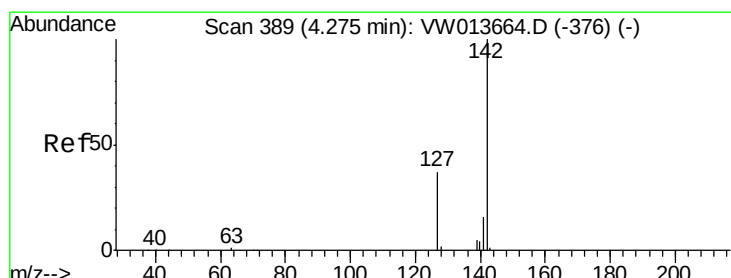
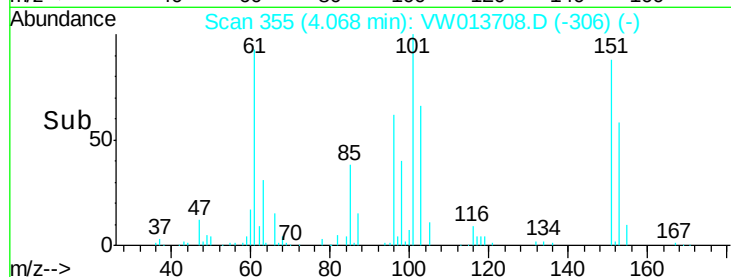
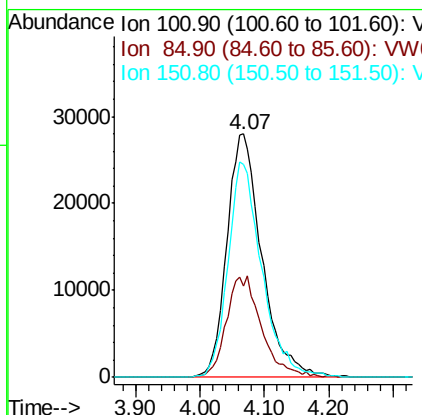
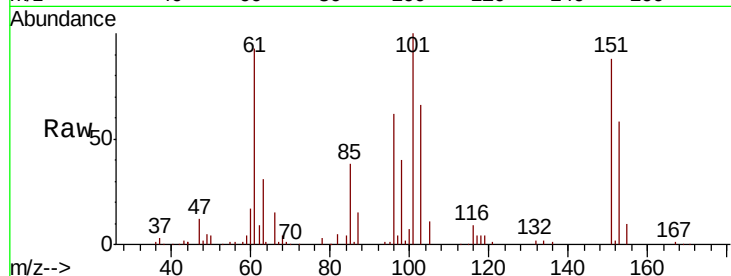
#9
 1,1,2-Trichlorotrifluoroethane
 Concen: 50.772 ug/l
 RT: 4.07 min Scan# 355
 Delta R.T. -0.00 min
 Lab File: VW013708.D
 Acq: 24 Oct 2019 10:29

Instrument :
 MSVOA_W
 ClientSampleId :
 VSTDCCC050EC

Tot Ion	Ratio	Resp	Lower	Upper
101	100	105864		
85	41.8		31.0	46.6
151	86.0		68.2	102.4

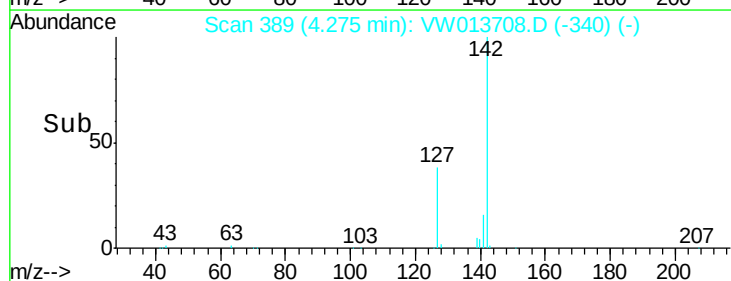
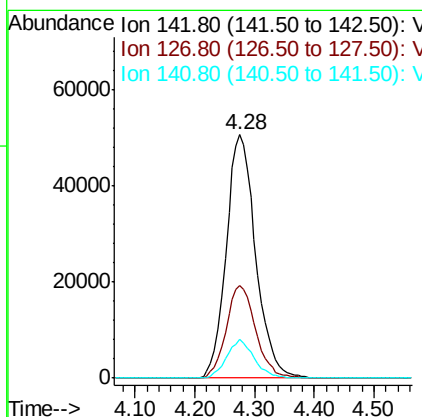
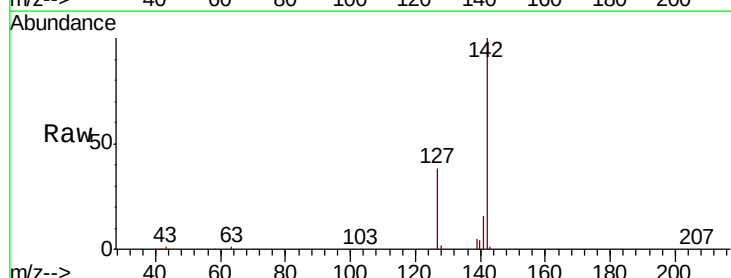
Manual Integrations
 APPROVED

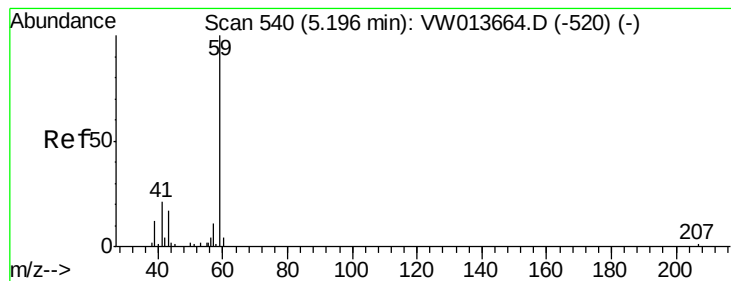
MMDadoda
 10/24/2019 1:25:31 PM



#10
 Methyl Iodide
 Concen: 50.878 ug/l
 RT: 4.28 min Scan# 389
 Delta R.T. -0.00 min
 Lab File: VW013708.D
 Acq: 24 Oct 2019 10:29

Tgt Ion	Ratio	Resp	Lower	Upper
142	100	172872		
127	38.3		30.3	45.5
141	14.8		11.8	17.8





#11

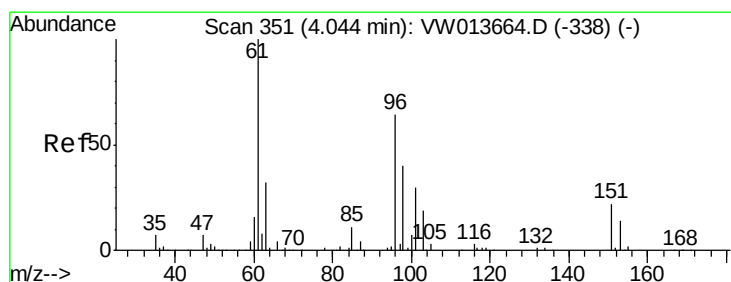
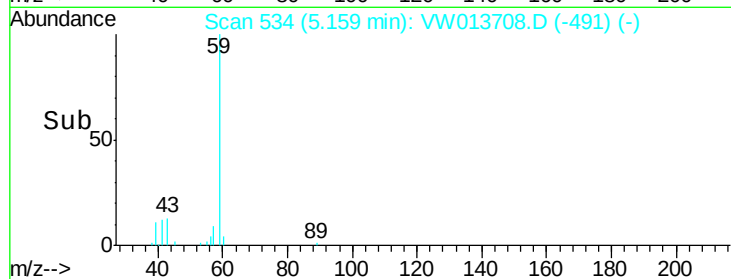
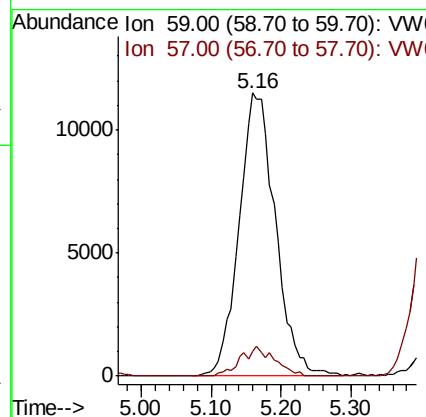
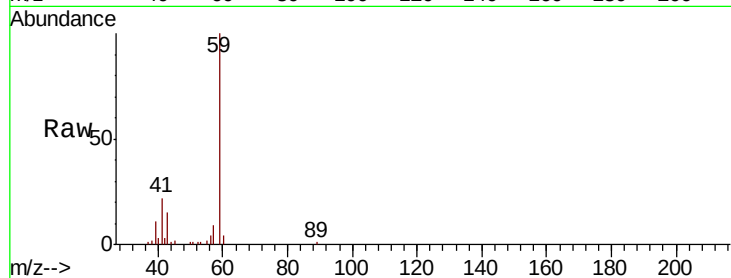
Tert butyl alcohol
Concen: 386.386 ug/l
RT: 5.16 min Scan# 534
Delta R.T. -0.04 min
Lab File: VW013708.D
Acq: 24 Oct 2019 10:29

Instrument :
MSVOA_W
ClientSampleId :
VSTDCCC050EC

Tot Ion	Ratio	Lower	Upper
59	100		
57	9.7	8.8	13.2

Manual Integrations
APPROVED

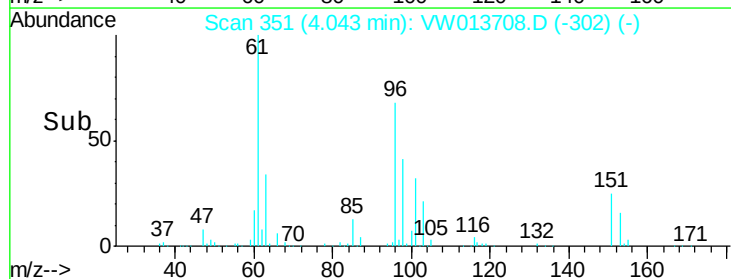
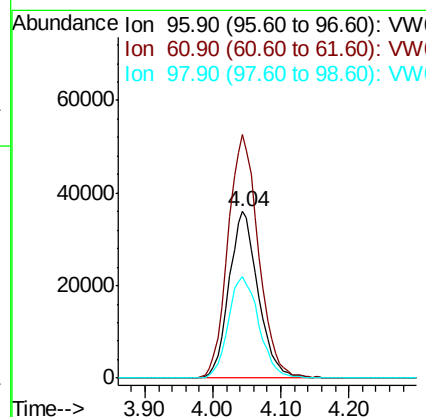
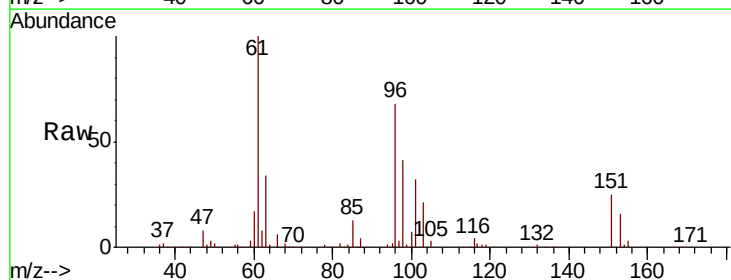
MMDadoda
10/24/2019 1:25:31 PM

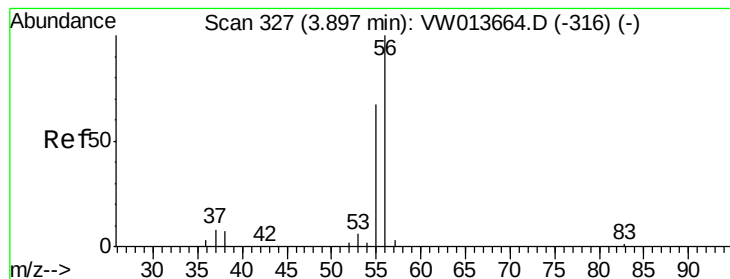


#12

1,1-Dichloroethene
Concen: 49.783 ug/l
RT: 4.04 min Scan# 351
Delta R.T. -0.00 min
Lab File: VW013708.D
Acq: 24 Oct 2019 10:29

Tgt Ion	Ratio	Lower	Upper
96	100		
61	146.2	125.0	187.6
98	60.7	50.3	75.5





#13

Acrolein

Concen: 247.010 ug/l

RT: 3.90 min Scan# 327

Delta R.T. -0.00 min

Lab File: VW013708.D

Acq: 24 Oct 2019 10:29

Instrument :

MSVOA_W

ClientSampleId :

VSTDCCC050EC

Tot Ion: 56 Resp: 30435

Ion Ratio Lower Upper

56 100

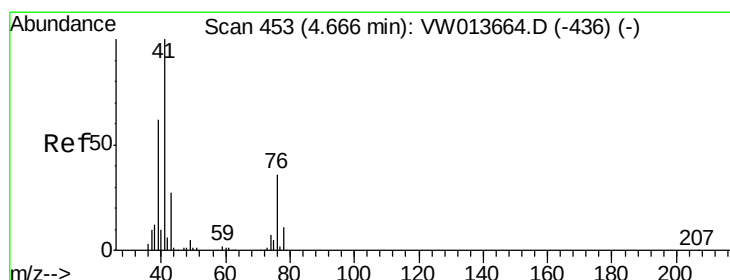
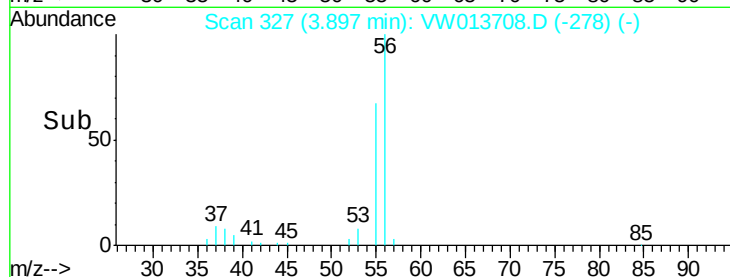
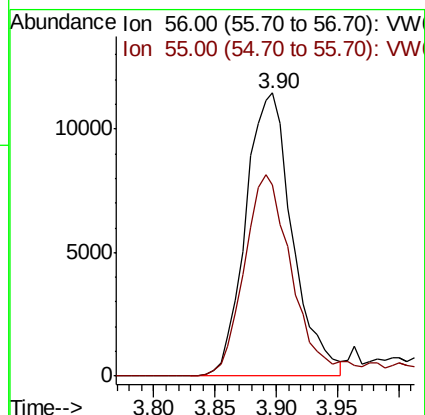
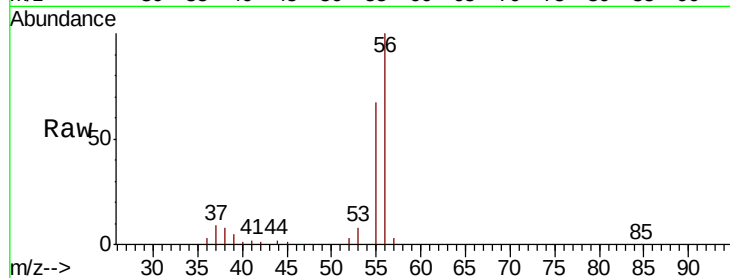
55 73.3 56.1 84.1

Manual Integrations

APPROVED

MMDadoda

10/24/2019 1:25:31 PM



#14

Allyl chloride

Concen: 50.941 ug/l

RT: 4.67 min Scan# 454

Delta R.T. 0.01 min

Lab File: VW013708.D

Acq: 24 Oct 2019 10:29

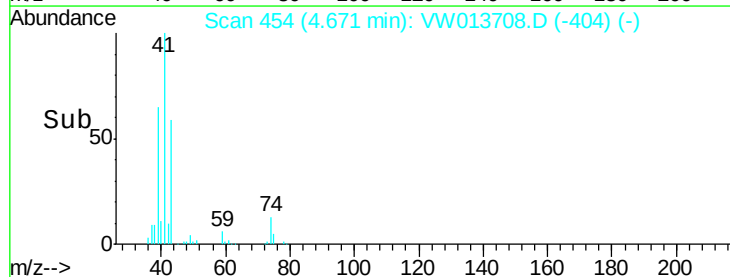
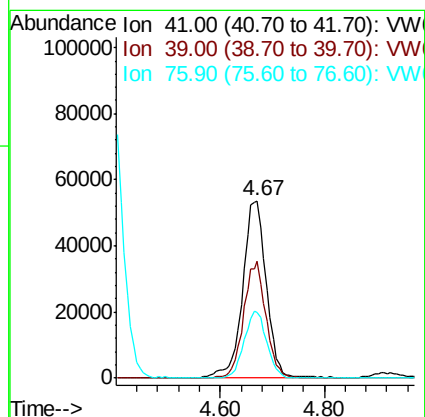
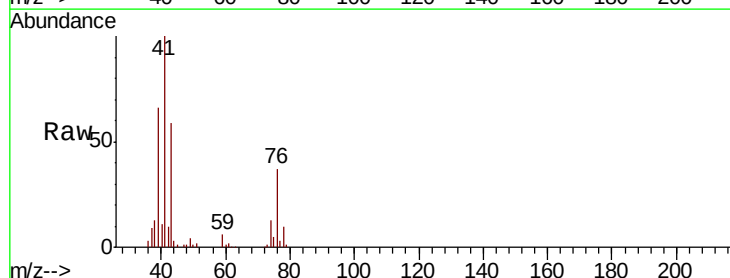
Tgt Ion: 41 Resp: 168708

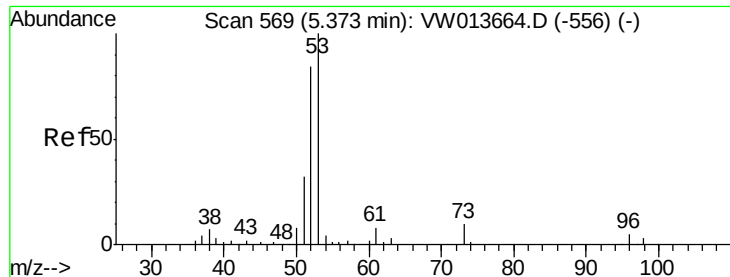
Ion Ratio Lower Upper

41 100

39 61.6 50.0 75.0

76 35.7 29.6 44.4





#15

Acrylonitrile

Concen: 378.895 ug/l

RT: 5.36 min Scan# 567

Delta R.T. -0.01 min

Lab File: VW013708.D

Acq: 24 Oct 2019 10:29

Instrument :

MSVOA_W

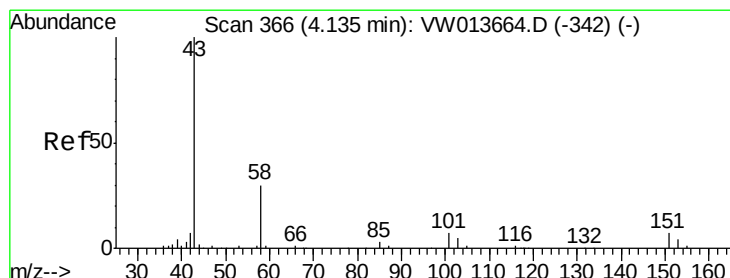
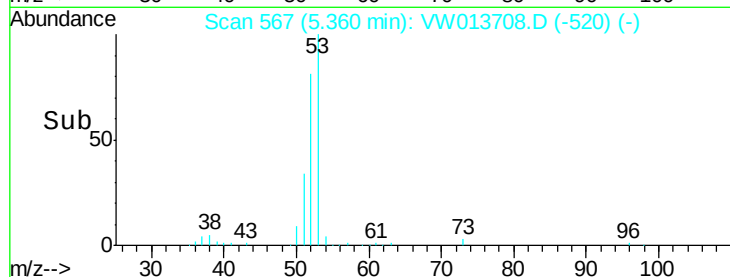
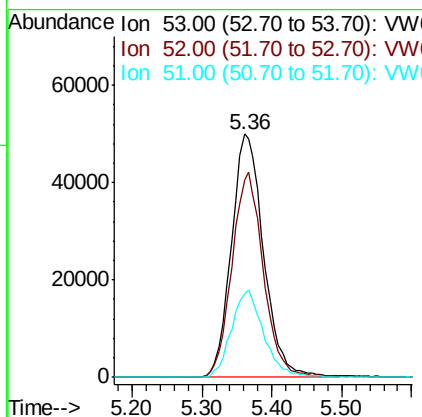
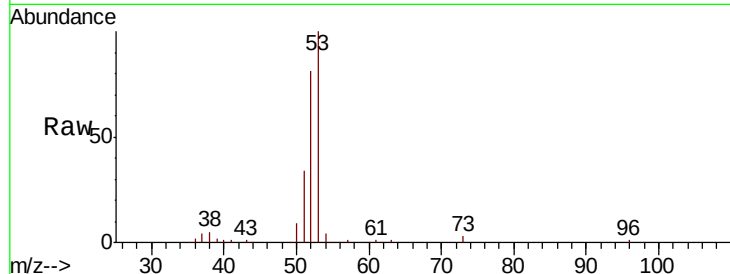
ClientSampleId :

VSTDCCC050EC

Tot Ion:	53	Resp:	159650
Ion	Ratio	Lower	Upper
53	100		
52	81.9	67.4	101.0
51	36.2	29.1	43.7

Manual Integrations
APPROVED

MMDadoda
10/24/2019 1:25:31 PM



#16

Acetone

Concen: 323.326 ug/l

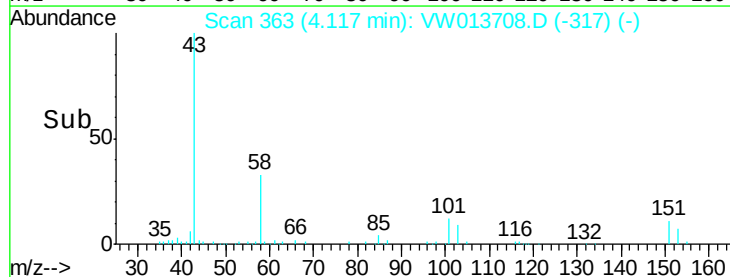
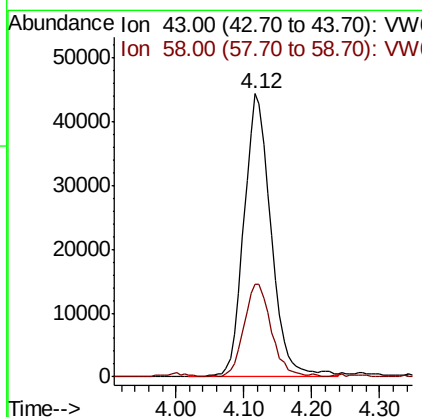
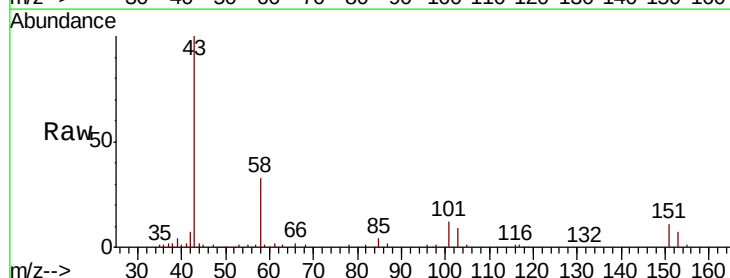
RT: 4.12 min Scan# 363

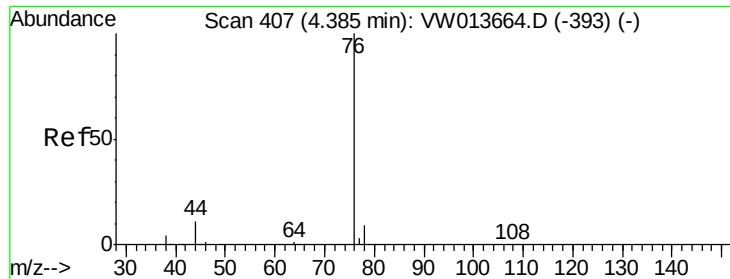
Delta R.T. -0.02 min

Lab File: VW013708.D

Acq: 24 Oct 2019 10:29

Tgt Ion:	43	Resp:	123505
Ion	Ratio	Lower	Upper
43	100		
58	32.2	24.1	36.1





#17

Carbon Disulfide

Concen: 48.527 ug/l

RT: 4.39 min Scan# 408

Delta R.T. 0.01 min

Lab File: VW013708.D

Acq: 24 Oct 2019 10:29

Instrument :

MSVOA_W

ClientSampleId :

VSTDCCC050EC

Tot Ion: 76 Resp: 300167

Ion Ratio Lower Upper

76 100

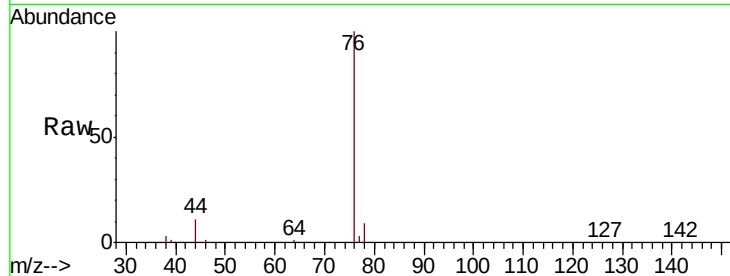
78 9.2 7.0 10.6

Manual Integrations

APPROVED

MMDadoda

10/24/2019 1:25:31 PM



Abundance Ion 75.90 (75.60 to 76.60): VW

Ion 77.90 (77.60 to 78.60): VW

4.39

100000

80000

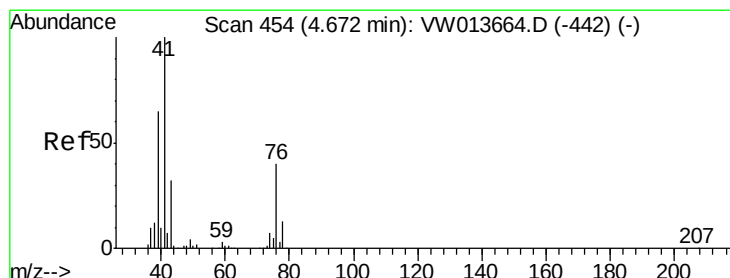
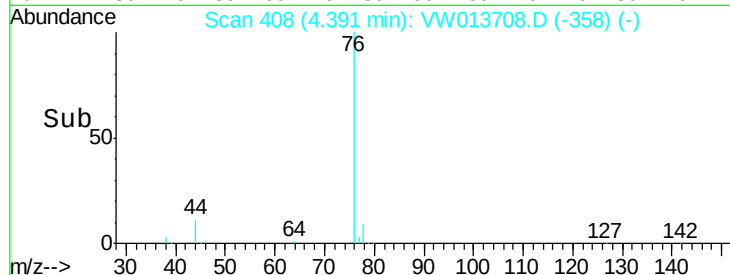
60000

40000

20000

0

Time--> 4.20 4.30 4.40 4.50



#18

Methyl Acetate

Concen: 90.563 ug/l

RT: 4.67 min Scan# 453

Delta R.T. -0.01 min

Lab File: VW013708.D

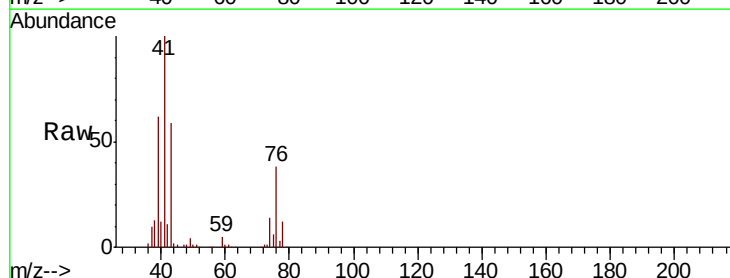
Acq: 24 Oct 2019 10:29

Tgt Ion: 43 Resp: 94829

Ion Ratio Lower Upper

43 100

74 24.3 19.8 29.8



Abundance Ion 43.00 (42.70 to 43.70): VW

Ion 74.00 (73.70 to 74.70): VW

4.67

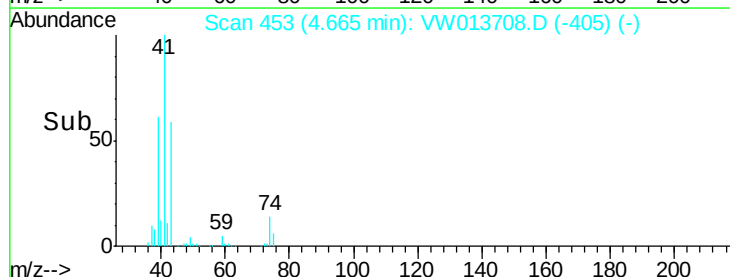
30000

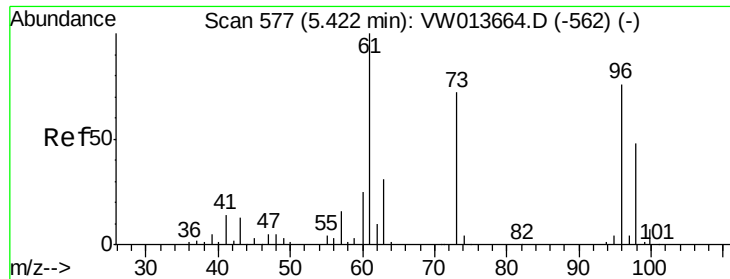
20000

10000

0

Time--> 4.50 4.60 4.70 4.80 4.90





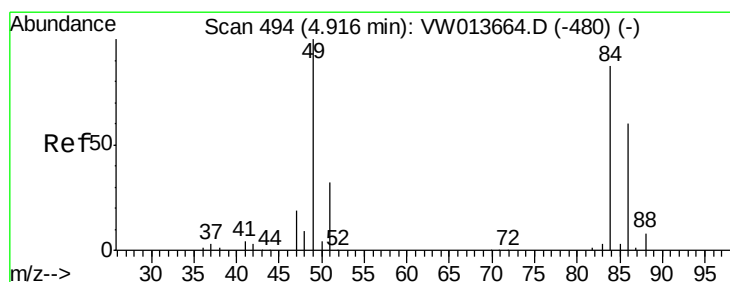
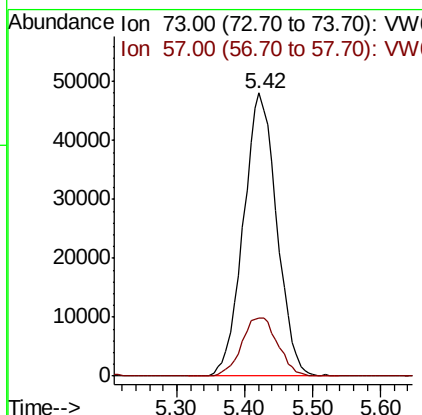
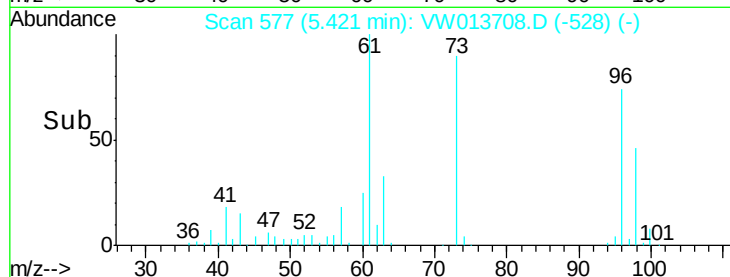
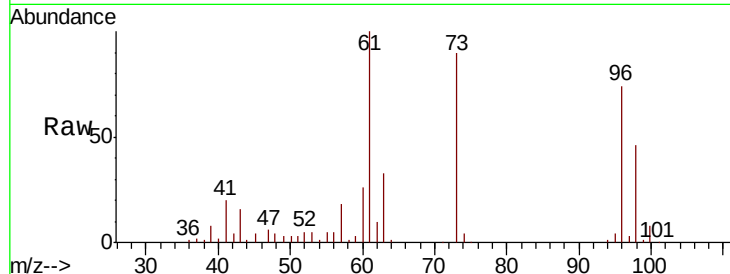
#19
Methyl tert-butyl Ether
Concen: 63.510 ug/l
RT: 5.42 min Scan# 577
Delta R.T. -0.00 min
Lab File: VW013708.D
Acq: 24 Oct 2019 10:29

Instrument :
MSVOA_W
ClientSampleId :
VSTDCCC050EC

Tot Ion: 73 Resp: 164148
Ion Ratio Lower Upper
73 100
57 20.3 17.6 26.4

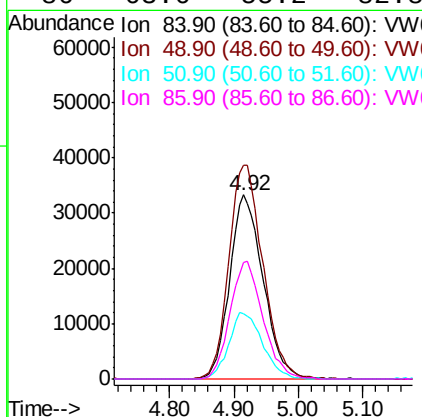
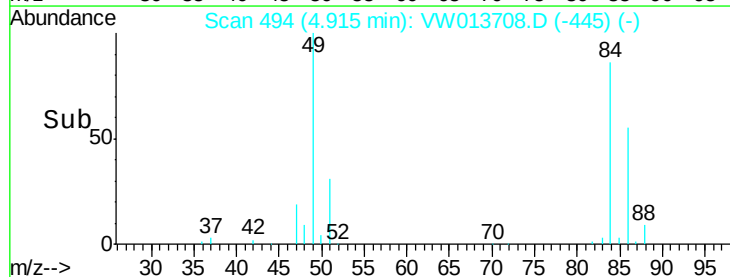
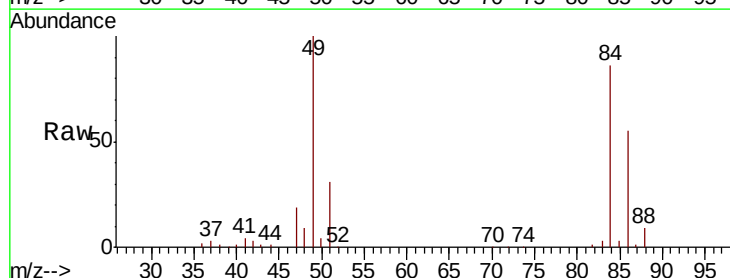
Manual Integrations
APPROVED

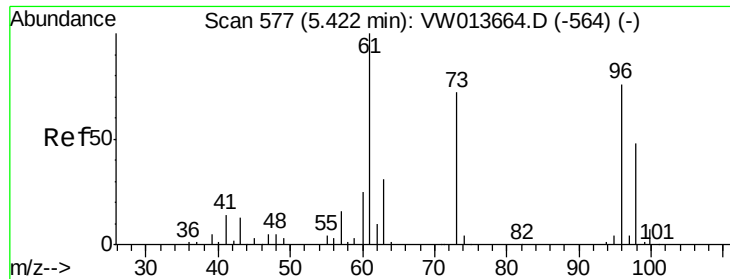
MMDadoda
10/24/2019 1:25:31 PM



#20
Methylene Chloride
Concen: 57.979 ug/l
RT: 4.92 min Scan# 494
Delta R.T. 0.00 min
Lab File: VW013708.D
Acq: 24 Oct 2019 10:29

Tgt Ion: 84 Resp: 120258
Ion Ratio Lower Upper
84 100
49 116.2 91.8 137.6
51 35.6 29.8 44.6
86 63.6 55.2 82.8





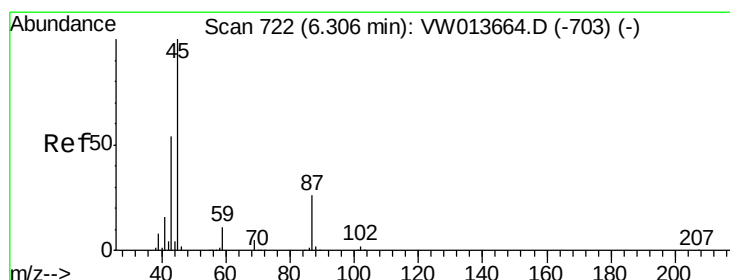
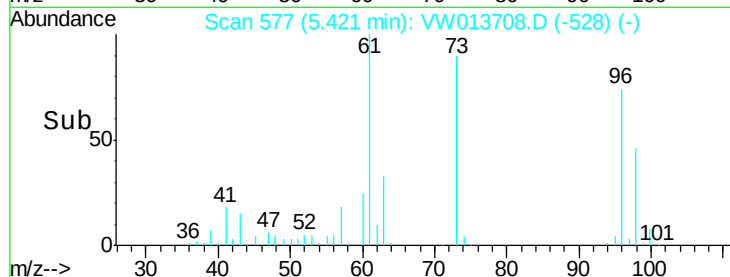
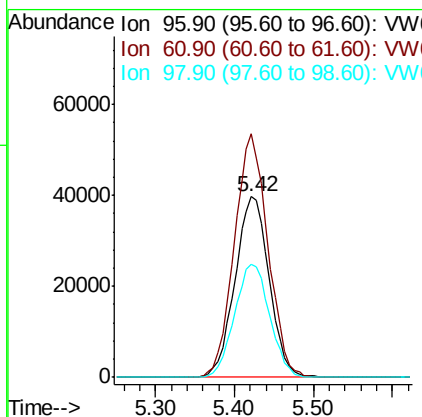
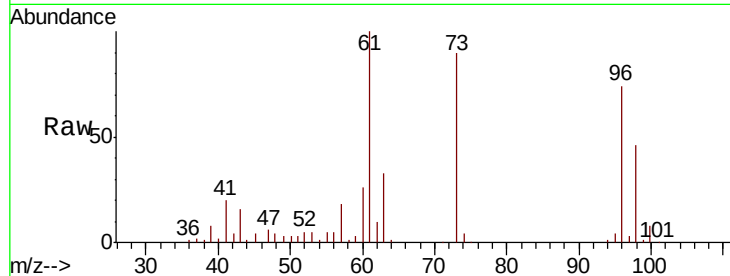
#21
trans-1,2-Dichloroethene
Concen: 51.463 ug/l
RT: 5.42 min Scan# 577
Delta R.T. -0.00 min
Lab File: VW013708.D
Acq: 24 Oct 2019 10:29

Instrument :
MSVOA_W
ClientSampleId :
VSTDCCC050EC

Tot Ion	Ratio	Lower	Upper
96	100		
61	134.7	104.8	157.2
98	62.3	50.6	76.0

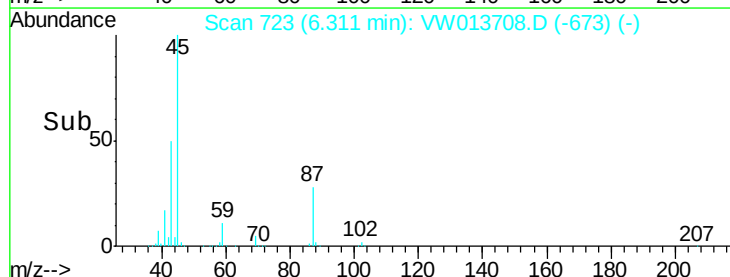
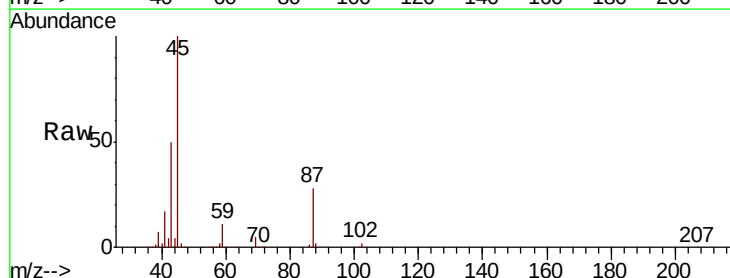
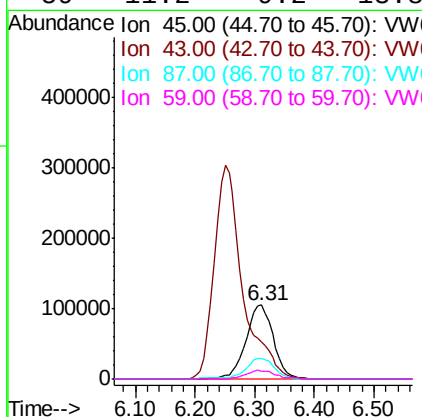
Manual Integrations
APPROVED

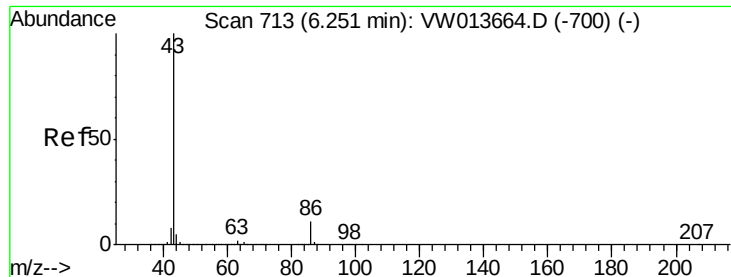
MMDadoda
10/24/2019 1:25:31 PM



#22
Diisopropyl ether
Concen: 55.586 ug/l
RT: 6.31 min Scan# 723
Delta R.T. 0.01 min
Lab File: VW013708.D
Acq: 24 Oct 2019 10:29

Tgt Ion	Ratio	Lower	Upper
45	100		
43	49.9	43.4	65.2
87	28.3	21.5	32.3
59	11.2	9.2	13.8





#23

Vinyl Acetate

Concen: 285.214 ug/l

RT: 6.25 min Scan# 713

Delta R.T. -0.00 min

Lab File: VW013708.D

Acq: 24 Oct 2019 10:29

Instrument :

MSVOA_W

ClientSampleId :

VSTDCCC050EC

Tot Ion: 43 Resp: 999760

Ion Ratio Lower Upper

43 100

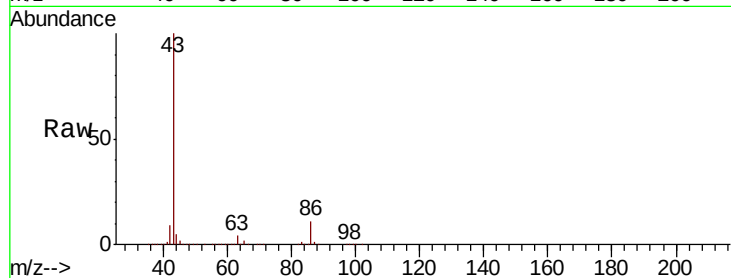
86 11.2 9.0 13.6

Manual Integrations

APPROVED

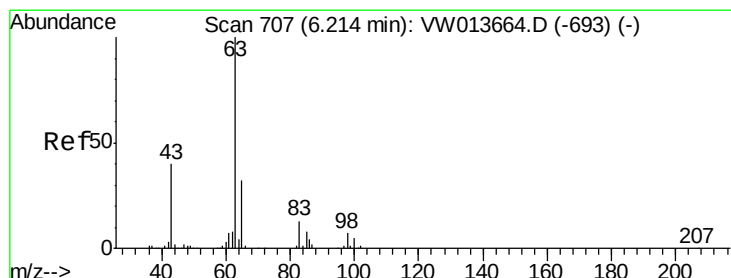
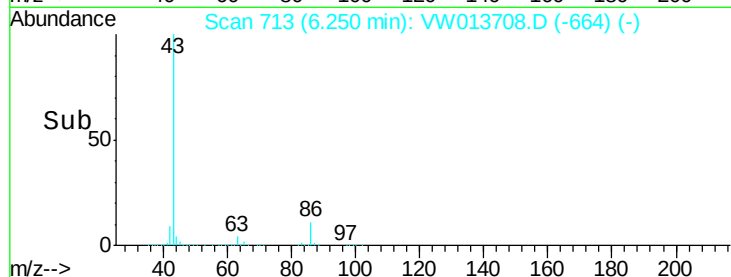
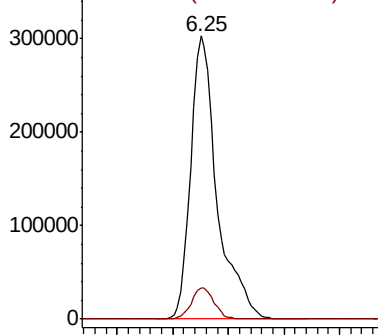
MMDadoda

10/24/2019 1:25:31 PM



Abundance Ion 43.00 (42.70 to 43.70): VW

Ion 86.00 (85.70 to 86.70): VW



#24

1,1-Dichloroethane

Concen: 52.976 ug/l

RT: 6.21 min Scan# 707

Delta R.T. -0.00 min

Lab File: VW013708.D

Acq: 24 Oct 2019 10:29

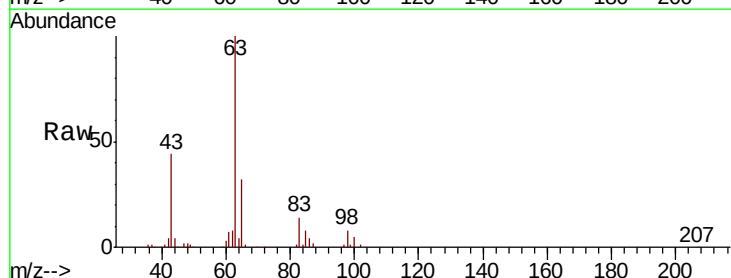
Tgt Ion: 63 Resp: 202683

Ion Ratio Lower Upper

63 100

98 7.7 3.6 10.9

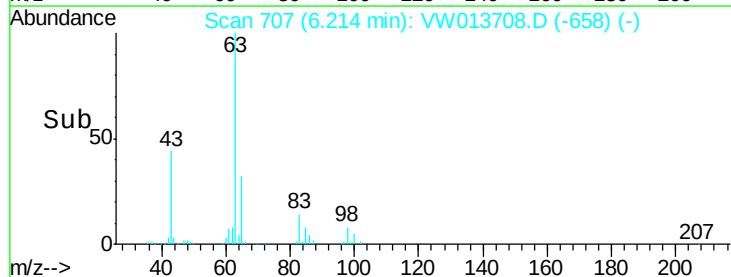
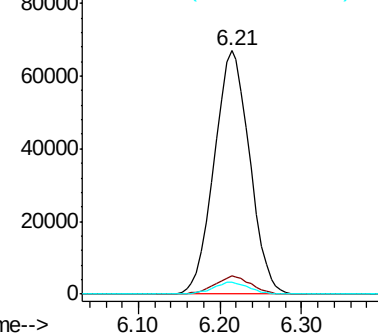
100 5.1 2.5 7.4

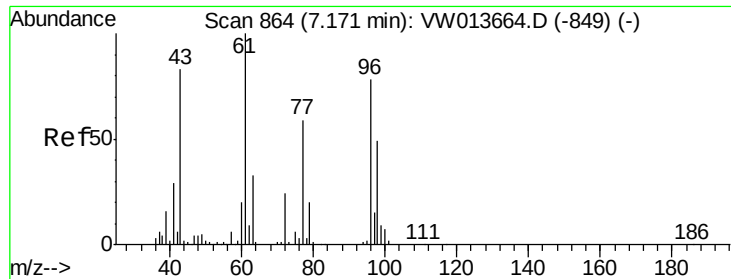


Abundance Ion 62.90 (62.60 to 63.60): VW

Ion 97.90 (97.60 to 98.60): VW

Ion 99.90 (99.60 to 100.60): VW





#25

2-Butanone

Concen: 371.955 ug/l

RT: 7.17 min Scan# 864

Delta R.T. -0.00 min

Lab File: VW013708.D

Acq: 24 Oct 2019 10:29

Instrument :

MSVOA_W

ClientSampleId :

VSTDCCC050EC

Tot Ion: 43 Resp: 204268

Ion Ratio Lower Upper

43 100

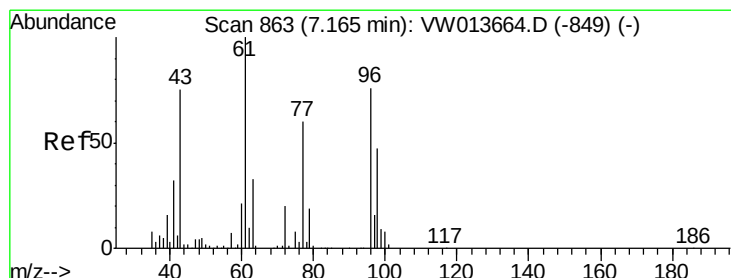
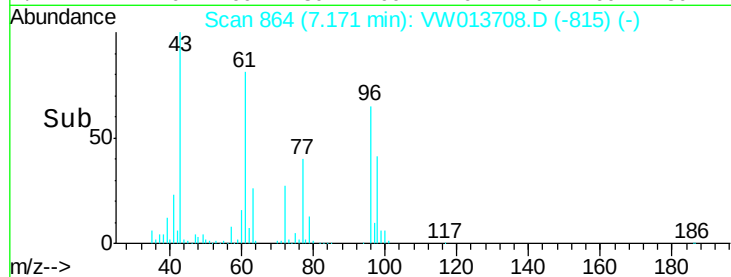
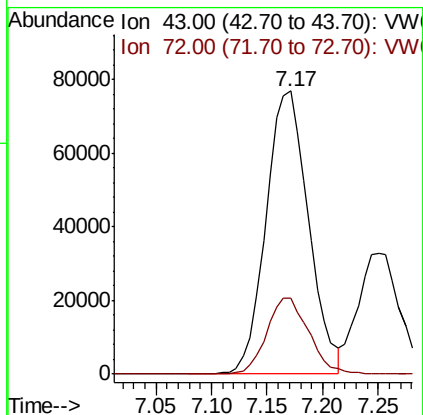
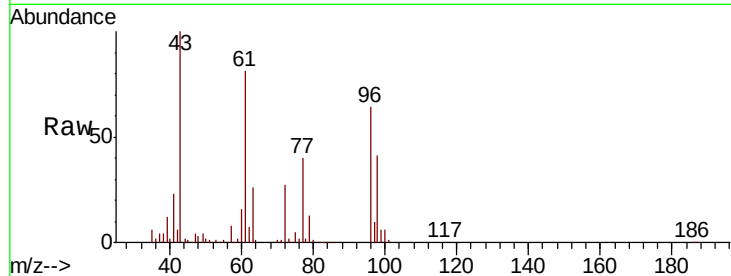
72 26.8 23.6 35.4

Manual Integrations

APPROVED

MMDadoda

10/24/2019 1:25:31 PM



#26

2,2-Dichloropropane

Concen: 42.616 ug/l

RT: 7.16 min Scan# 863

Delta R.T. -0.00 min

Lab File: VW013708.D

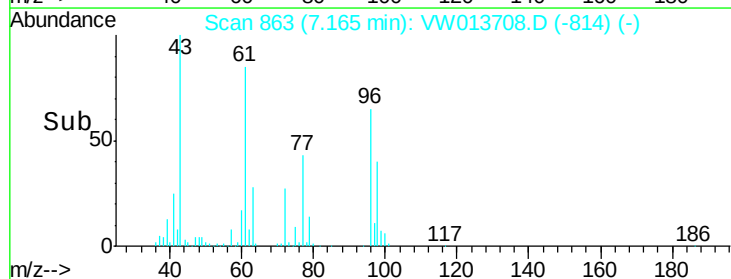
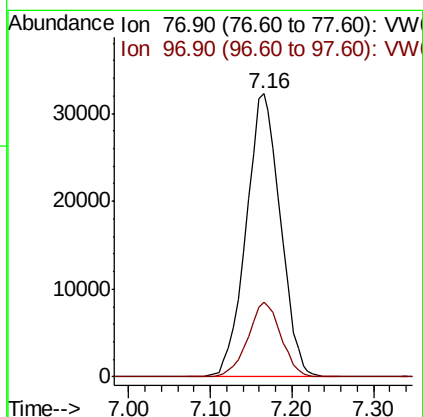
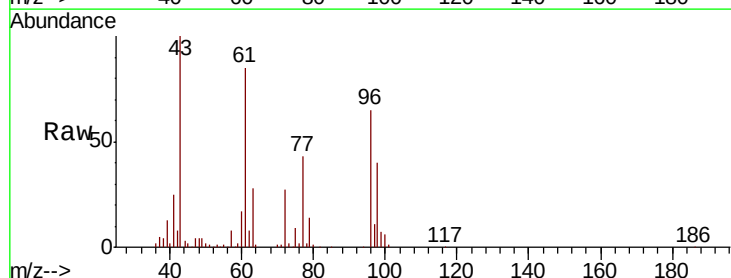
Acq: 24 Oct 2019 10:29

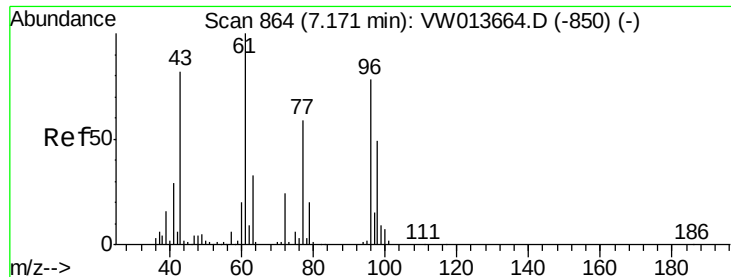
Tgt Ion: 77 Resp: 94284

Ion Ratio Lower Upper

77 100

97 25.4 12.8 38.4





#27

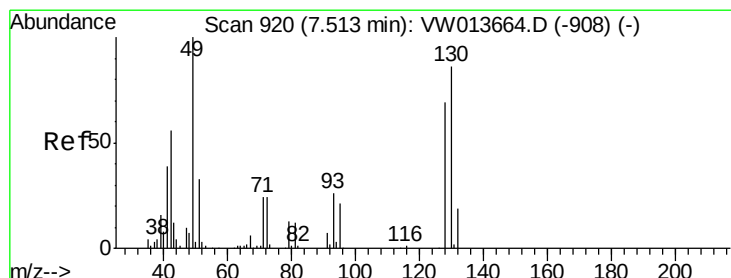
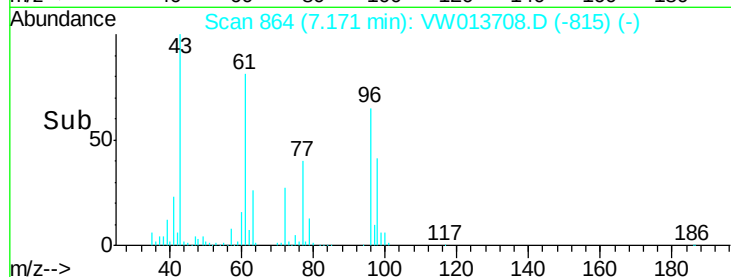
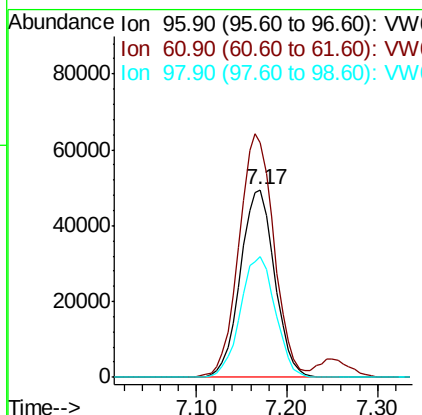
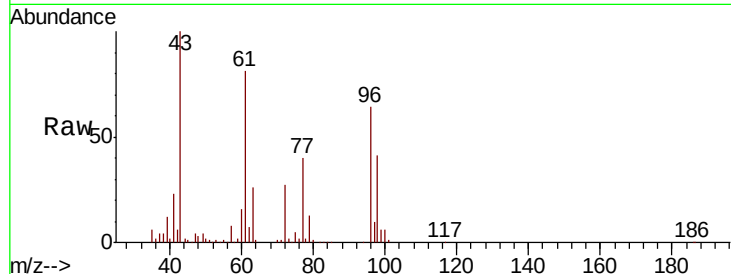
cis-1,2-Dichloroethene
Concen: 52.965 ug/l
RT: 7.17 min Scan# 864
Delta R.T. -0.00 min
Lab File: VW013708.D
Acq: 24 Oct 2019 10:29

Instrument :
MSVOA_W
ClientSampleId :
VSTDCCC050EC

Tot Ion	Ratio	Resp	Lower	Upper
96	100			
61	132.1	0.0	266.0	
98	65.2	0.0	126.8	

Manual Integrations
APPROVED

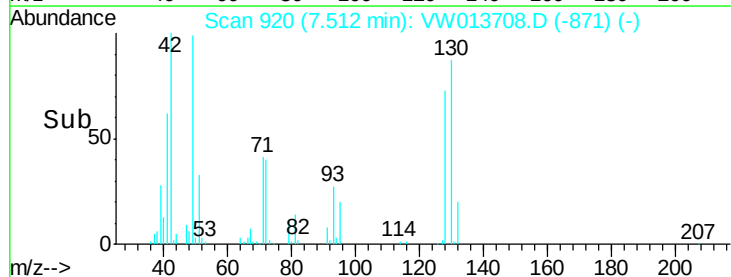
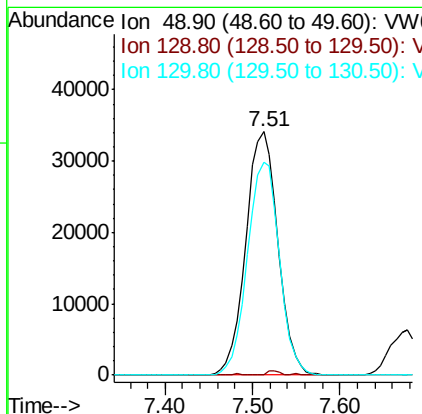
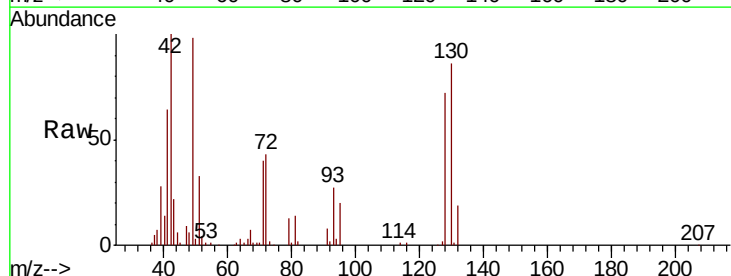
MMDadoda
10/24/2019 1:25:31 PM

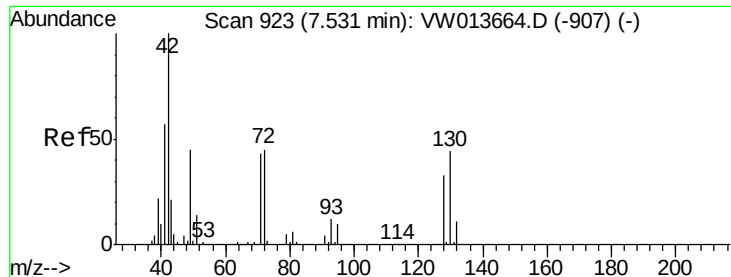


#28

Bromochloromethane
Concen: 63.249 ug/l
RT: 7.51 min Scan# 920
Delta R.T. 0.00 min
Lab File: VW013708.D
Acq: 24 Oct 2019 10:29

Tgt Ion	Ratio	Resp	Lower	Upper
49	100			
129	0.7	0.0	0.6#	
130	87.4	67.5	101.3	





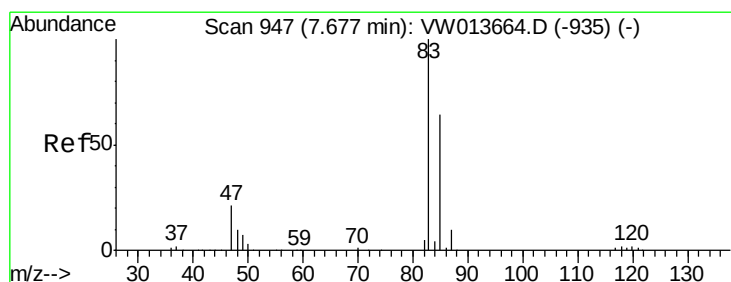
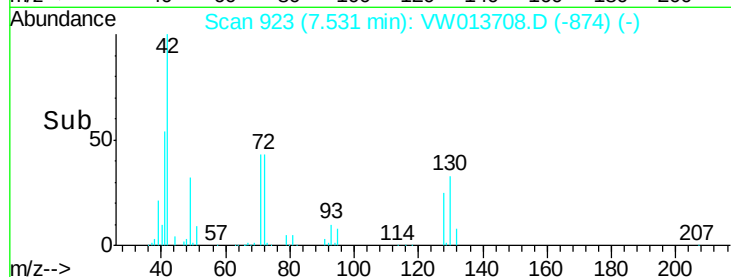
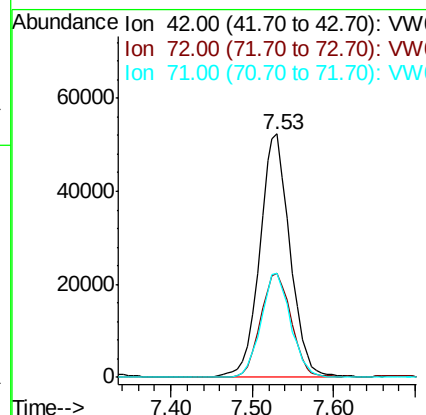
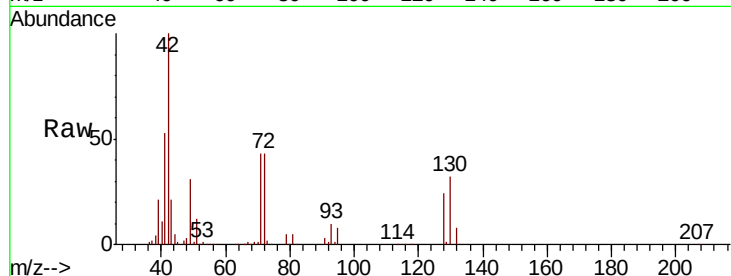
#29
Tetrahydrofuran
Concen: 398.079 ug/l
RT: 7.53 min Scan# 923
Delta R.T. -0.00 min
Lab File: VW013708.D
Acq: 24 Oct 2019 10:29

Instrument :
MSVOA_W
ClientSampleId :
VSTDCCC050EC

Tot Ion	Ratio	Lower	Upper
42	100		
72	43.6	35.3	52.9
71	42.1	33.3	49.9

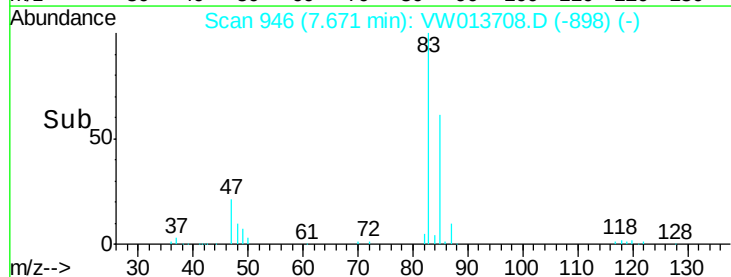
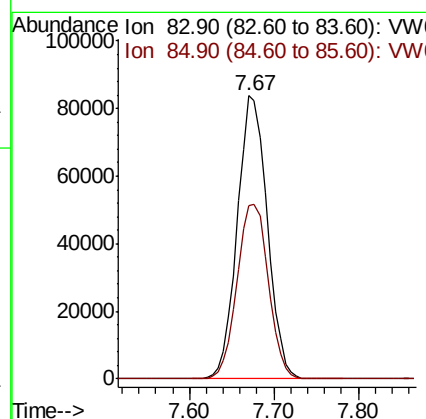
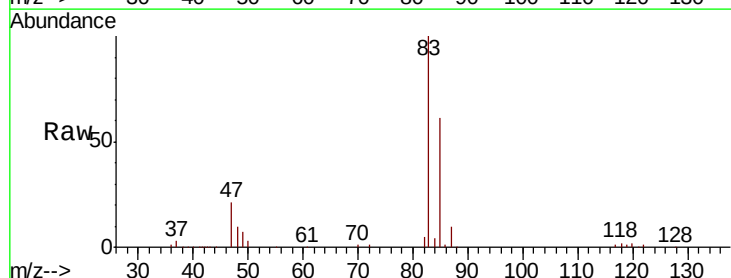
Manual Integrations
APPROVED

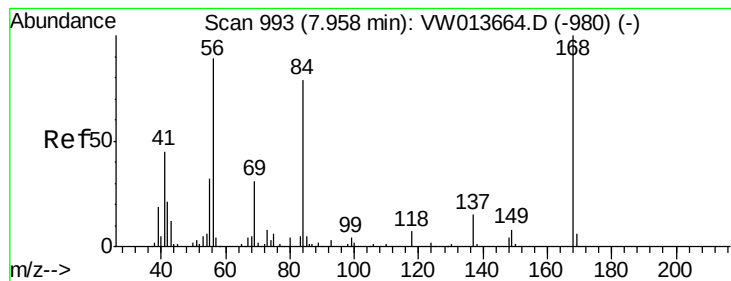
MMDadoda
10/24/2019 1:25:31 PM



#30
Chloroform
Concen: 53.217 ug/l
RT: 7.67 min Scan# 946
Delta R.T. -0.01 min
Lab File: VW013708.D
Acq: 24 Oct 2019 10:29

Tgt Ion	Ratio	Lower	Upper
83	100		
85	61.3	51.4	77.2





#31

Cyclohexane

Concen: 47.416 ug/l

RT: 7.96 min Scan# 993

Delta R.T. -0.00 min

Lab File: VW013708.D

Acq: 24 Oct 2019 10:29

Instrument :

MSVOA_W

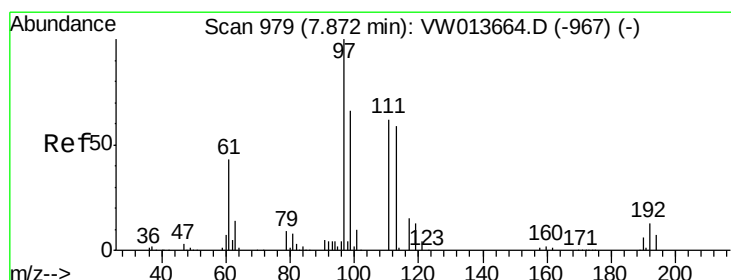
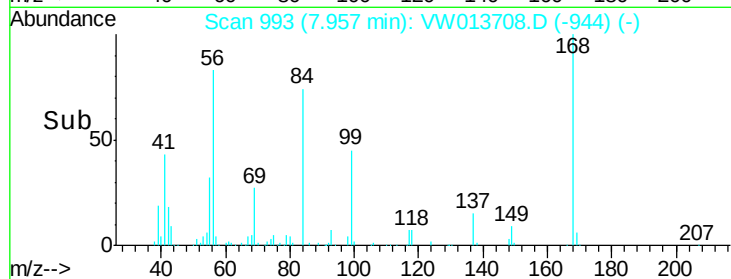
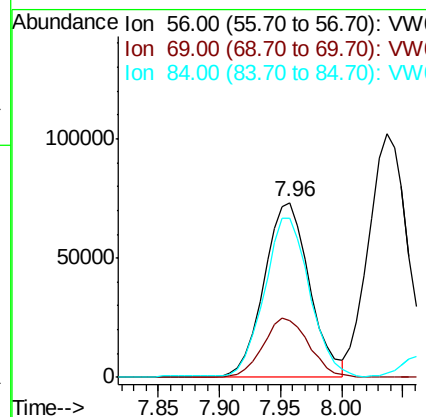
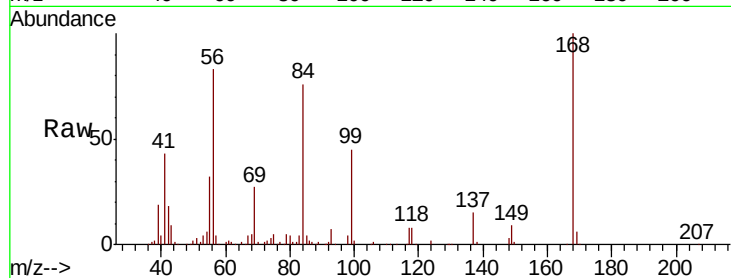
ClientSampleId :

VSTDCCC050EC

Tot Ion:	56	Resp:	189849
Ion	Ratio	Lower	Upper
56	100		
69	32.4	27.5	41.3
84	90.0	70.8	106.2

Manual Integrations
APPROVED

MMDadoda
10/24/2019 1:25:31 PM



#32

1,1,1-Trichloroethane

Concen: 52.697 ug/l

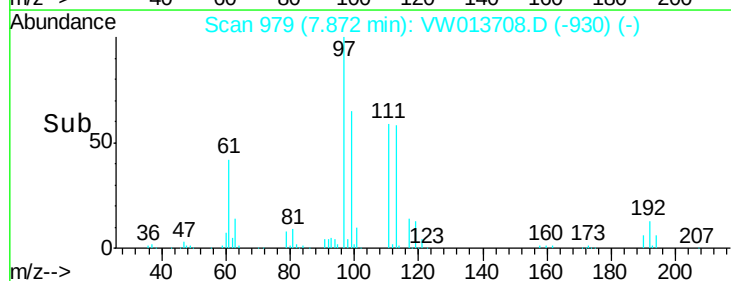
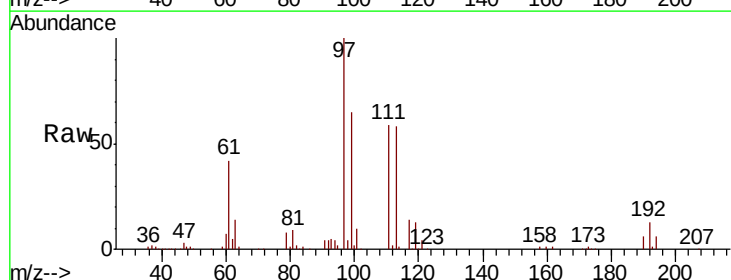
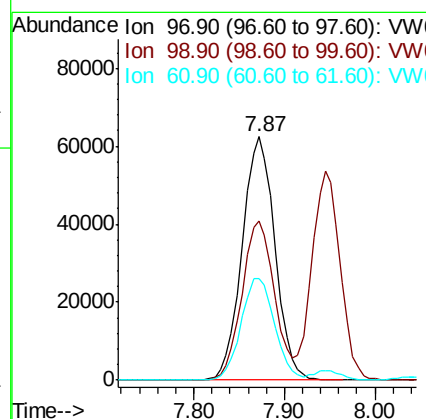
RT: 7.87 min Scan# 979

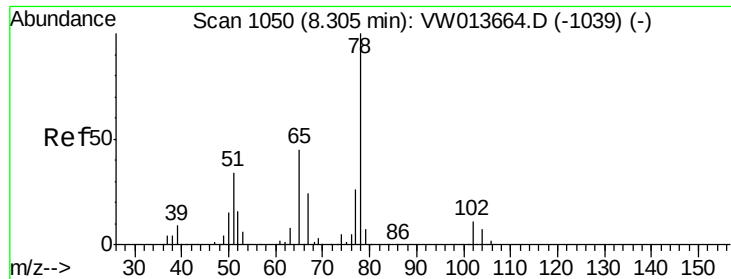
Delta R.T. -0.00 min

Lab File: VW013708.D

Acq: 24 Oct 2019 10:29

Tgt Ion:	97	Resp:	156405
Ion	Ratio	Lower	Upper
97	100		
99	64.8	52.0	78.0
61	42.8	33.8	50.6





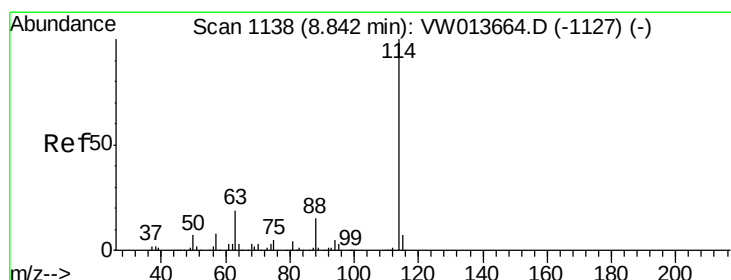
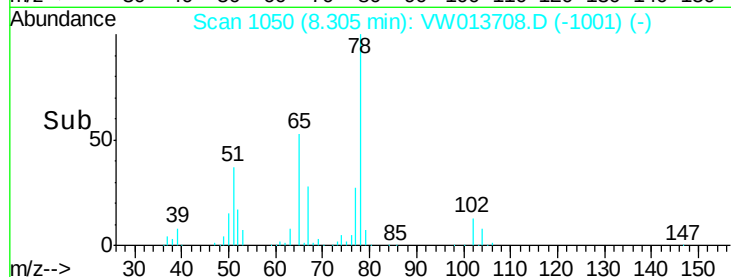
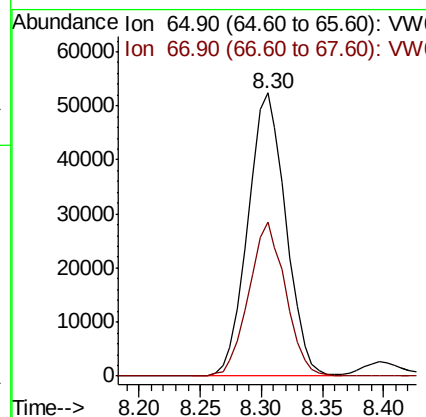
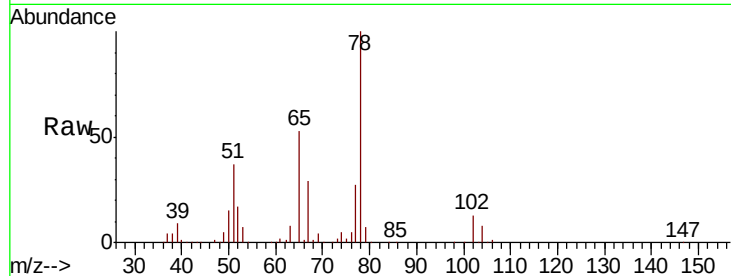
#33
 1,2-Dichloroethane-d4
 Concen: 62.867 ug/l
 RT: 8.30 min Scan# 1050
 Delta R.T. -0.00 min
 Lab File: VW013708.D
 Acq: 24 Oct 2019 10:29

Instrument :
 MSVOA_W
 ClientSampleId :
 VSTDCCC050EC

Tot Ion	Ratio	Resp	Lower	Upper
65	100			
67	52.6	0.0	109.4	

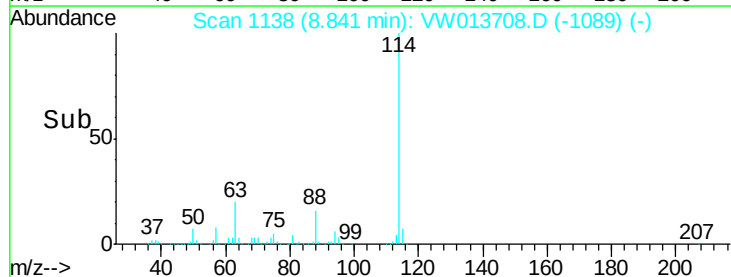
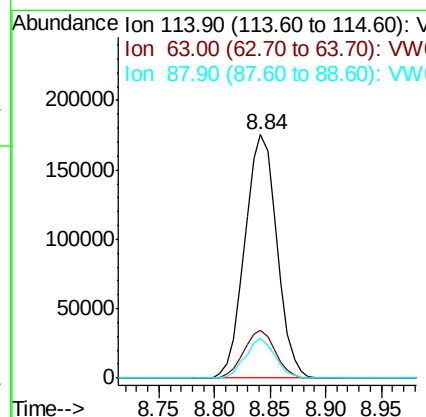
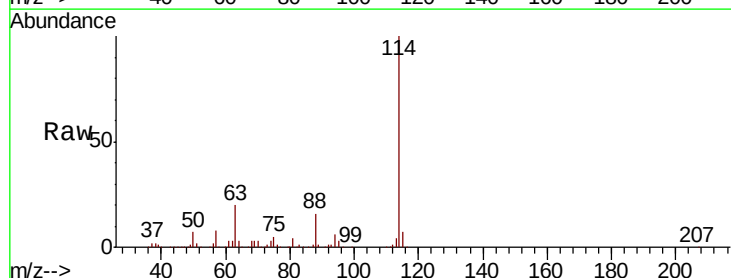
Manual Integrations
 APPROVED

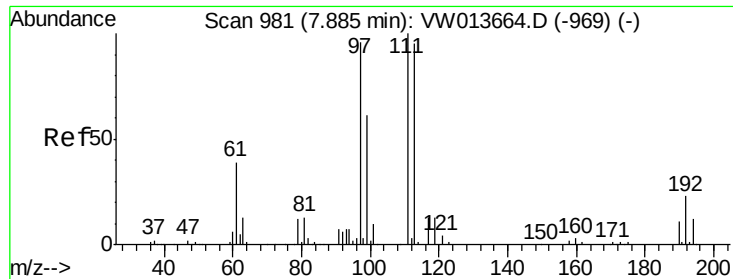
MMDadoda
 10/24/2019 1:25:31 PM



#34
 1,4-Difluorobenzene
 Concen: 50.000 ug/l
 RT: 8.84 min Scan# 1138
 Delta R.T. -0.00 min
 Lab File: VW013708.D
 Acq: 24 Oct 2019 10:29

Tgt Ion	Ratio	Resp	Lower	Upper
114	100			
63	19.9	0.0	37.6	
88	16.5	0.0	30.2	





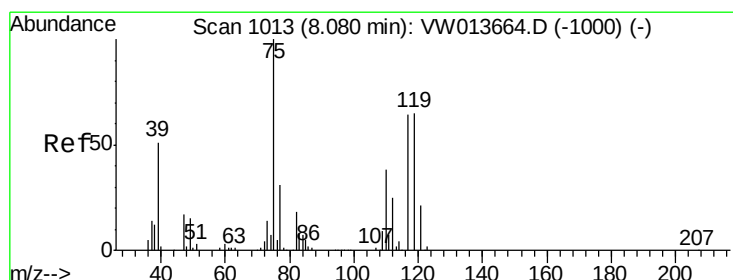
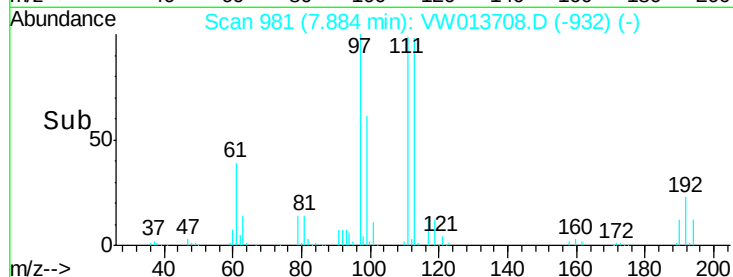
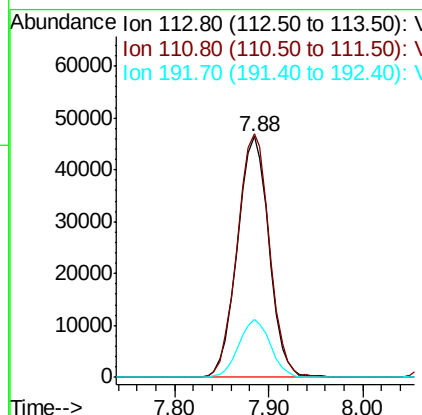
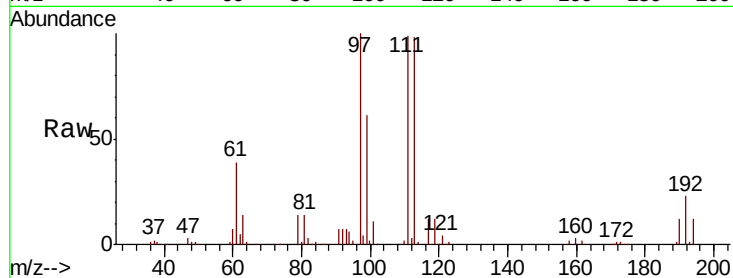
#35
 Dibromofluoromethane
 Concen: 55.751 ug/l
 RT: 7.88 min Scan# 981
 Delta R.T. -0.00 min
 Lab File: VW013708.D
 Acq: 24 Oct 2019 10:29

Instrument :
 MSVOA_W
 ClientSampleId :
 VSTDCCC050EC

Tot Ion	Ratio	Resp	Lower	Upper
113	100	108899		
111	102.7	83.0	124.6	
192	23.8	19.4	29.2	

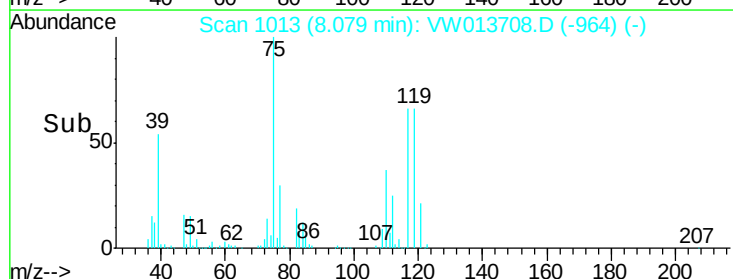
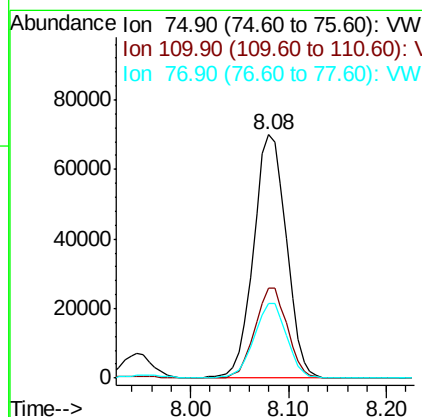
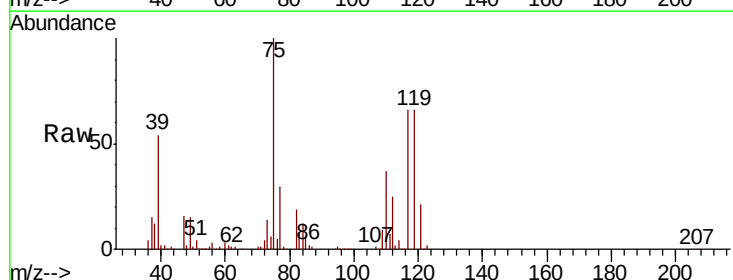
Manual Integrations
 APPROVED

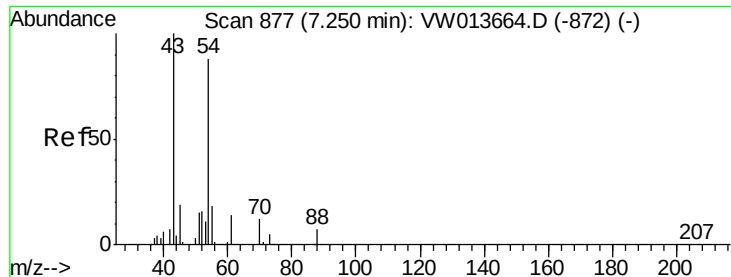
MMDadoda
 10/24/2019 1:25:31 PM



#36
 1,1-Dichloropropene
 Concen: 49.779 ug/l
 RT: 8.08 min Scan# 1013
 Delta R.T. -0.00 min
 Lab File: VW013708.D
 Acq: 24 Oct 2019 10:29

Tgt Ion	Ratio	Resp	Lower	Upper
75	100	162967		
110	36.4	18.7	56.1	
77	30.7	25.4	38.0	





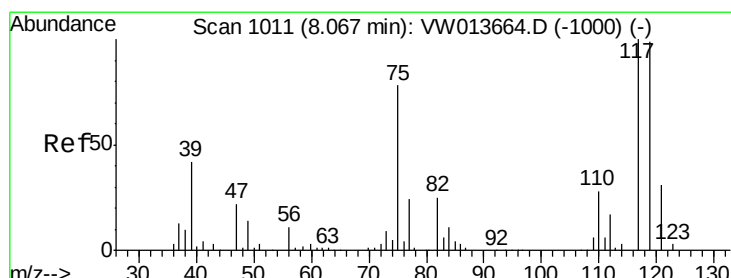
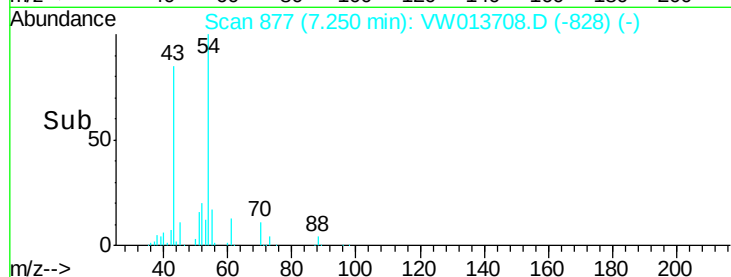
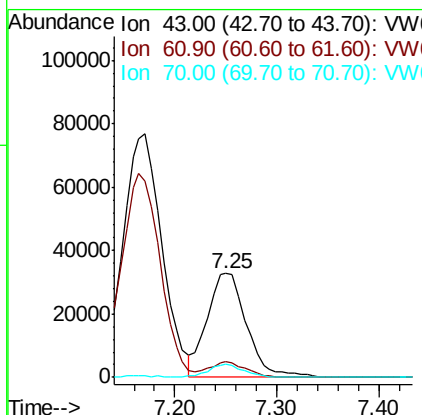
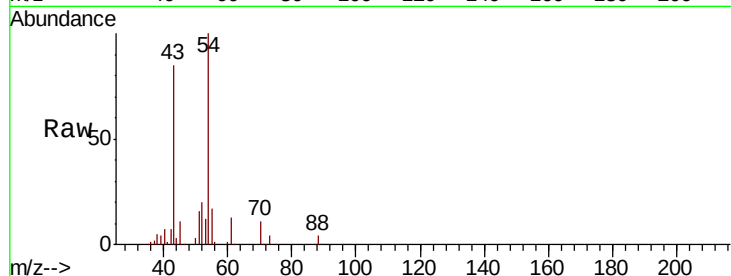
#37
Ethyl Acetate
Concen: 69.696 ug/l
RT: 7.25 min Scan# 877
Delta R.T. -0.00 min
Lab File: VW013708.D
Acq: 24 Oct 2019 10:29

Instrument :
MSVOA_W
ClientSampleId :
VSTDCCC050EC

Tot Ion	Ratio	Lower	Upper
43	100		
61	13.8	11.7	17.5
70	11.7	8.8	13.2

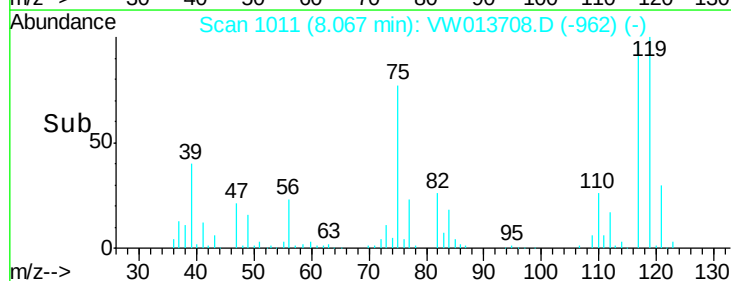
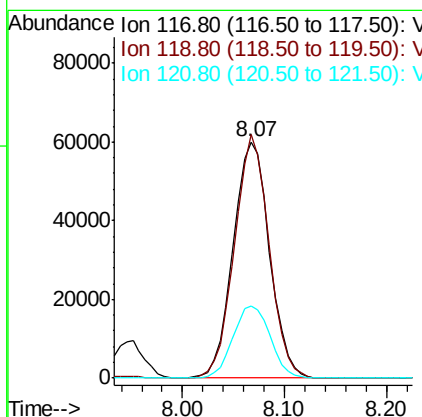
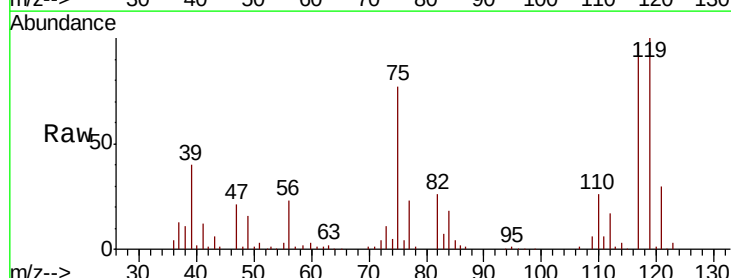
Manual Integrations
APPROVED

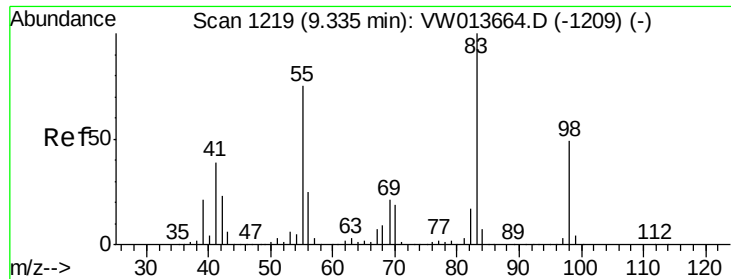
MMDadoda
10/24/2019 1:25:31 PM



#38
Carbon Tetrachloride
Concen: 50.119 ug/l
RT: 8.07 min Scan# 1011
Delta R.T. -0.00 min
Lab File: VW013708.D
Acq: 24 Oct 2019 10:29

Tgt Ion	Ratio	Lower	Upper
117	100		
119	103.2	79.0	118.4
121	30.8	24.5	36.7





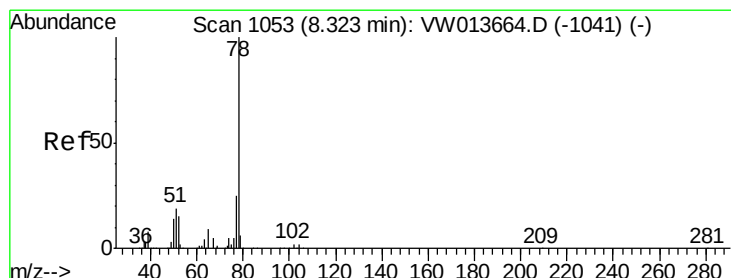
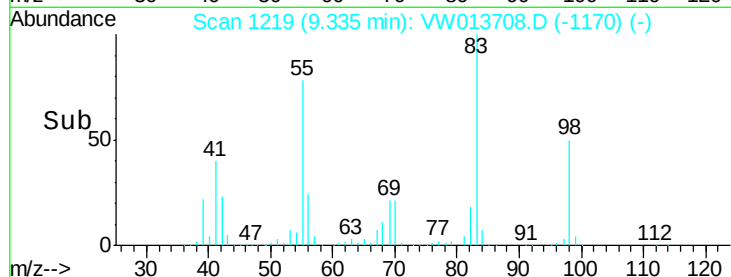
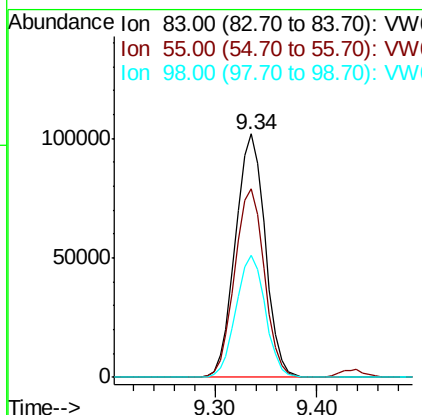
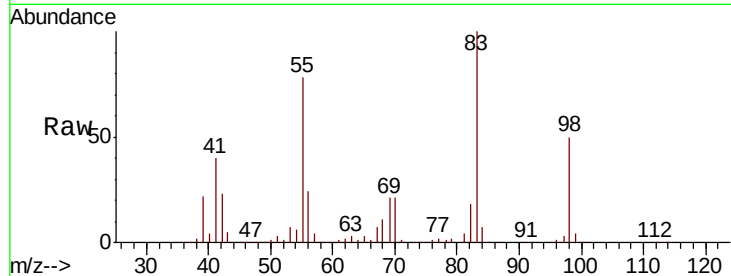
#39
Methylvlcyclohexane
Concen: 48.679 ug/l
RT: 9.34 min Scan# 1219
Delta R.T. -0.00 min
Lab File: VW013708.D
Acq: 24 Oct 2019 10:29

Instrument :
MSVOA_W
ClientSampleId :
VSTDCCC050EC

Tot Ion	83.00	Resp	205808
Ion Ratio	Lower	Upper	
83	100		
55	77.7	59.9	89.9
98	50.3	39.4	59.2

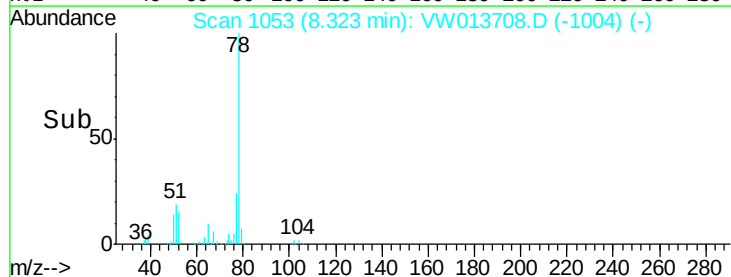
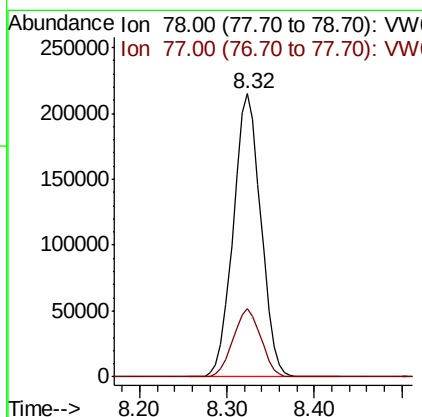
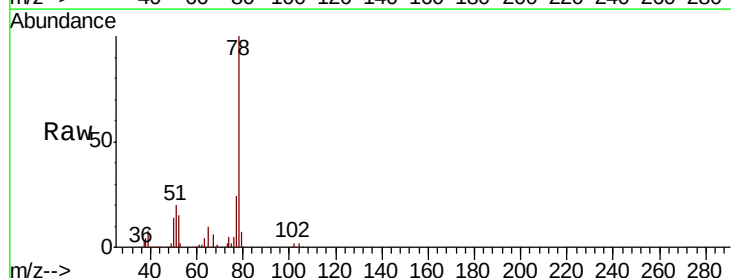
Manual Integrations
APPROVED

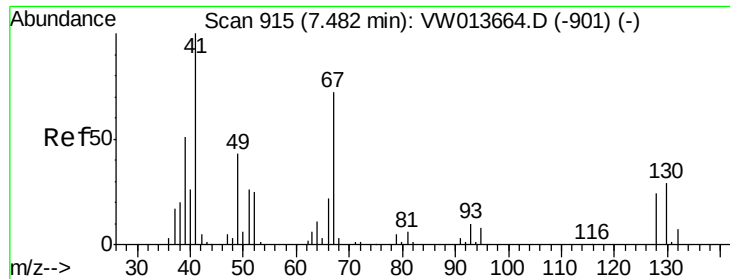
MMDadoda
10/24/2019 1:25:31 PM



#40
Benzene
Concen: 50.885 ug/l
RT: 8.32 min Scan# 1053
Delta R.T. -0.00 min
Lab File: VW013708.D
Acq: 24 Oct 2019 10:29

Tgt Ion	78.00	Resp	471449
Ion Ratio	Lower	Upper	
78	100		
77	24.0	19.6	29.4





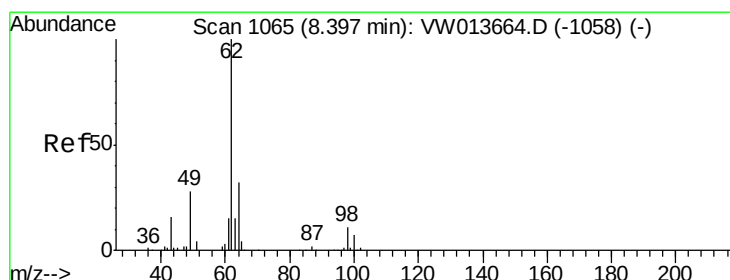
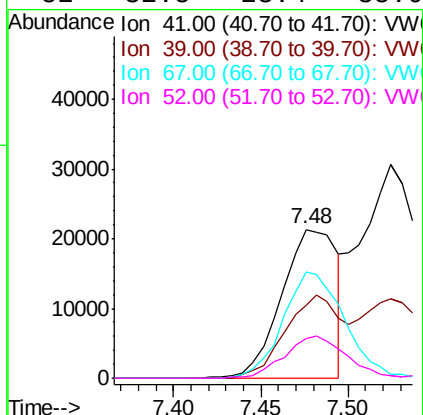
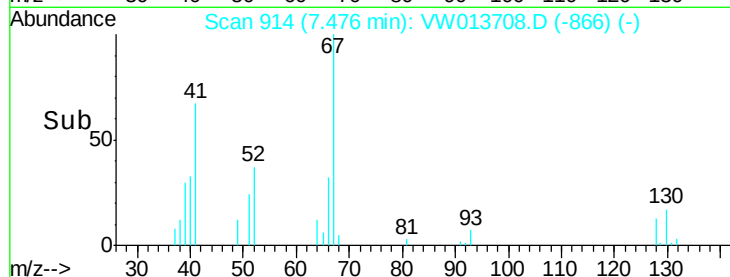
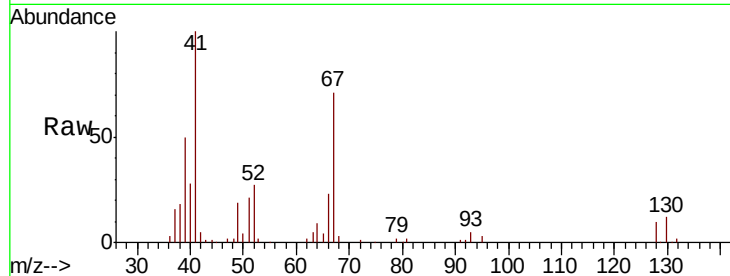
#41
Methacrylonitrile
Concen: 60.201 ug/l
RT: 7.48 min Scan# 914
Delta R.T. -0.01 min
Lab File: VW013708.D
Acq: 24 Oct 2019 10:29

Instrument :
MSVOA_W
ClientSampleId :
VSTDCCC050EC

Tot Ion:	41	Resp:	47047
Ion	Ratio	Lower	Upper
41	100		
39	57.3	44.8	67.2
67	80.1	59.3	88.9
52	32.5	23.4	35.0

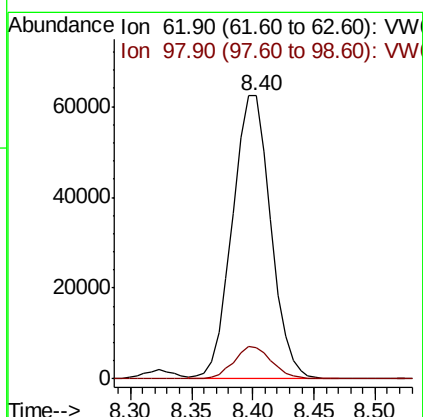
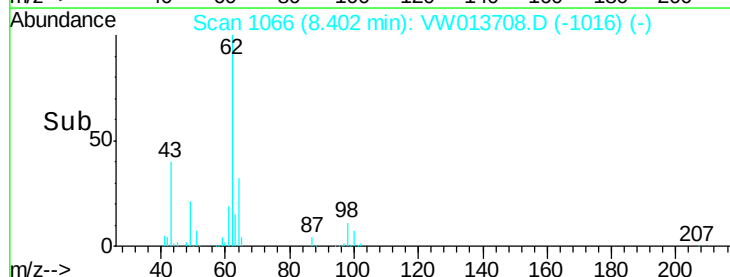
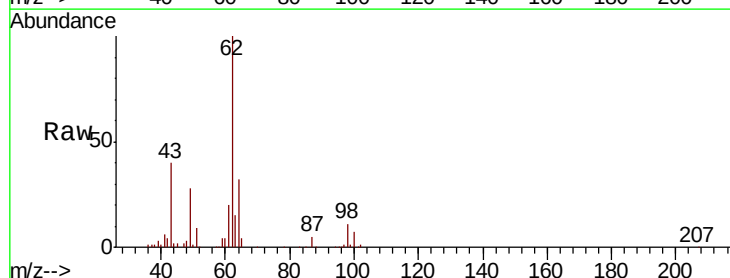
Manual Integrations
APPROVED

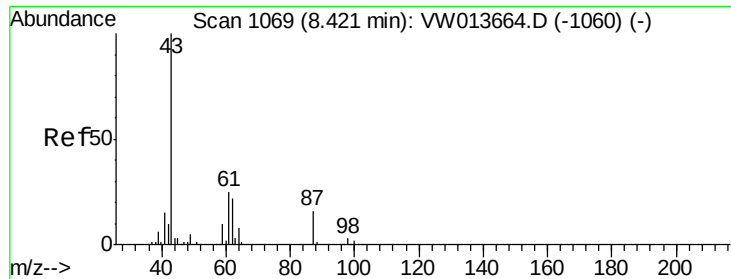
MMDadoda
10/24/2019 1:25:31 PM



#42
1,2-Dichloroethane
Concen: 58.368 ug/l
RT: 8.40 min Scan# 1066
Delta R.T. 0.01 min
Lab File: VW013708.D
Acq: 24 Oct 2019 10:29

Tgt Ion:	62	Resp:	136273
Ion	Ratio	Lower	Upper
62	100		
98	11.3	0.0	22.4





#43

Isopropyl Acetate

Concen: 66.005 ug/l

RT: 8.42 min Scan# 1069

Delta R.T. -0.00 min

Lab File: VW013708.D

Acq: 24 Oct 2019 10:29

Instrument :

MSVOA_W

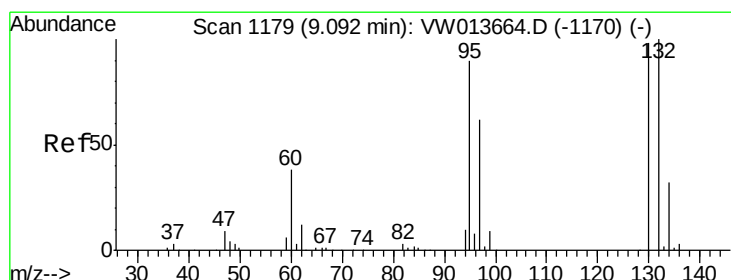
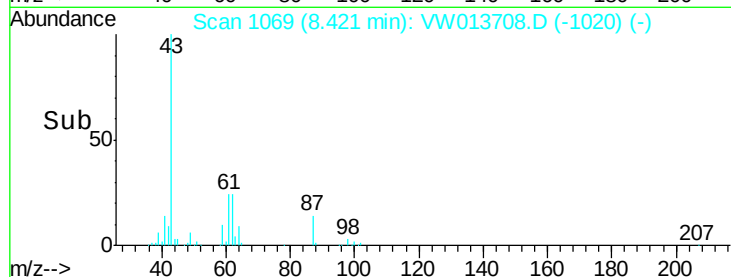
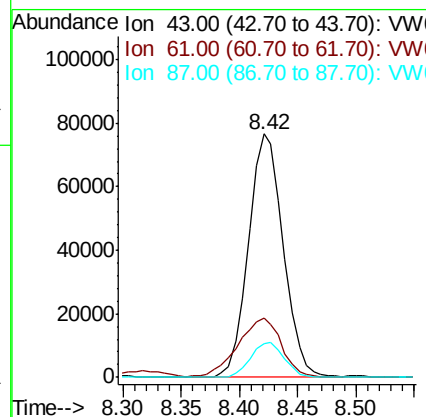
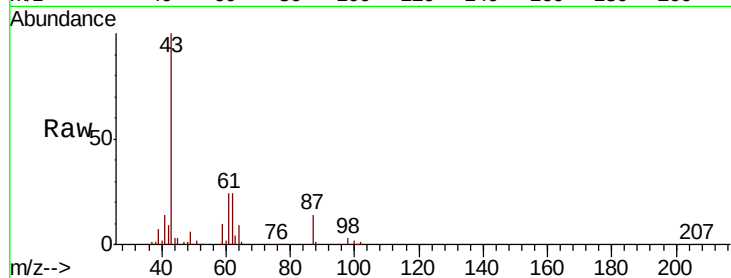
ClientSampleId :

VSTDCCC050EC

Tot Ion:	43	Resp:	158335
Ion	Ratio	Lower	Upper
43	100		
61	30.6	26.1	39.1
87	14.2	11.4	17.0

Manual Integrations
APPROVED

MMDadoda
10/24/2019 1:25:31 PM



#44

Trichloroethene

Concen: 51.432 ug/l

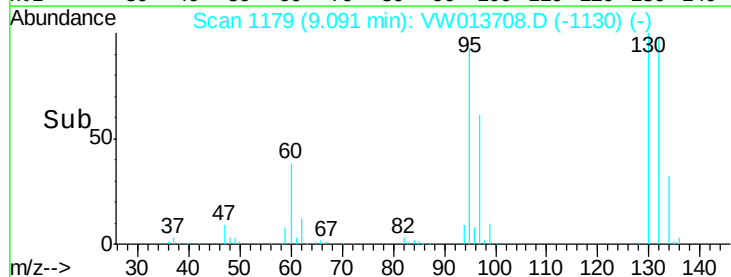
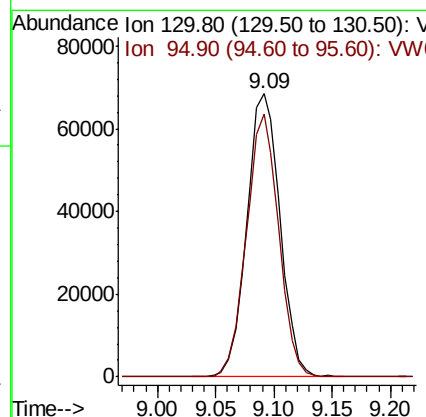
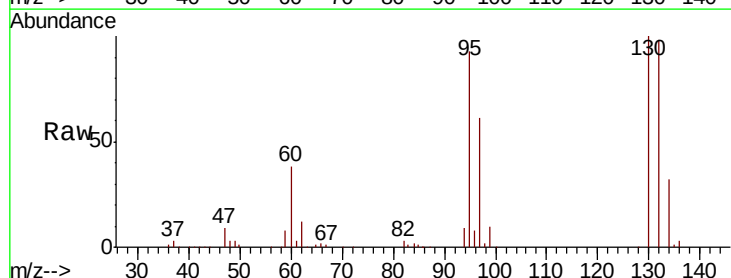
RT: 9.09 min Scan# 1179

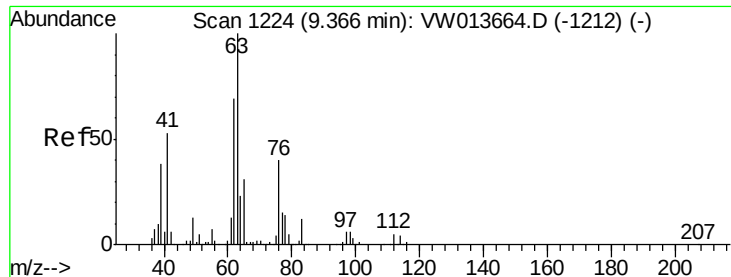
Delta R.T. -0.00 min

Lab File: VW013708.D

Acq: 24 Oct 2019 10:29

Tgt Ion:	130	Resp:	136497
Ion	Ratio	Lower	Upper
130	100		
95	93.1	0.0	184.6





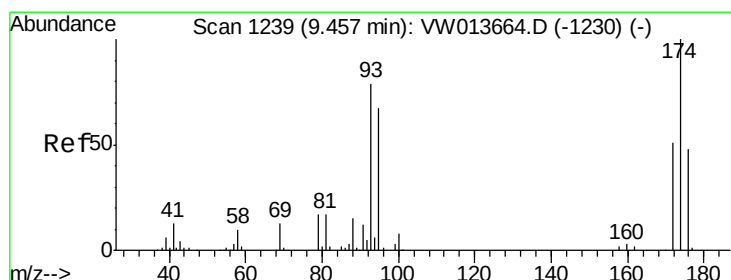
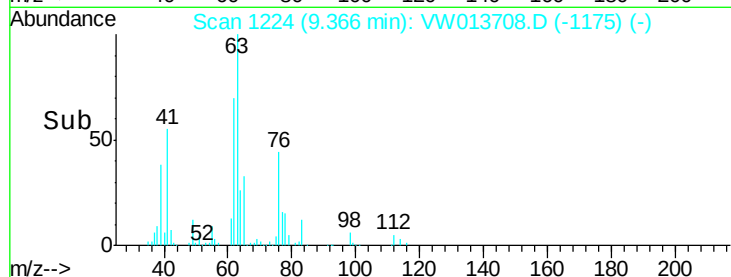
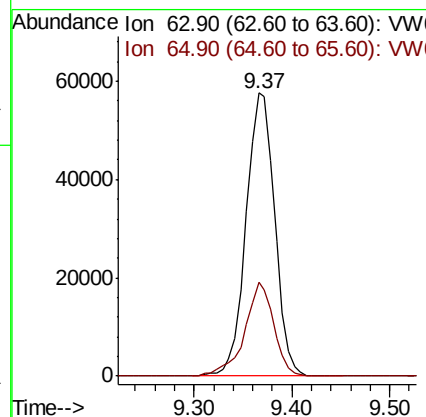
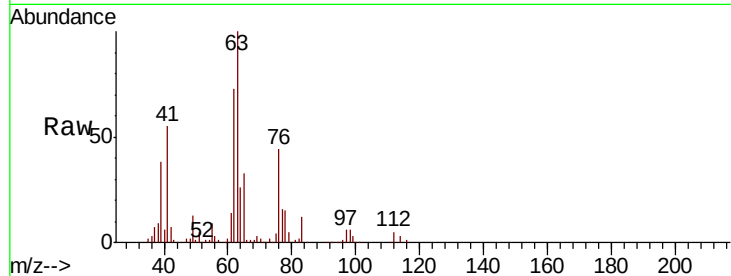
#45
 1,2-Dichloropropane
 Concen: 52.830 ug/l
 RT: 9.37 min Scan# 1224
 Delta R.T. -0.00 min
 Lab File: VW013708.D
 Acq: 24 Oct 2019 10:29

Instrument :
 MSVOA_W
 ClientSampleId :
 VSTDCCC050EC

Tot Ion: 63 Resp: 116913
 Ion Ratio Lower Upper
 63 100
 65 33.3 25.2 37.8

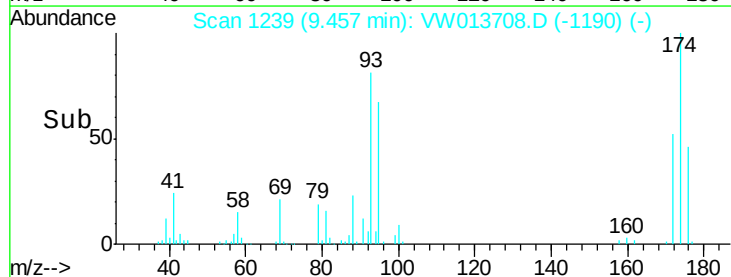
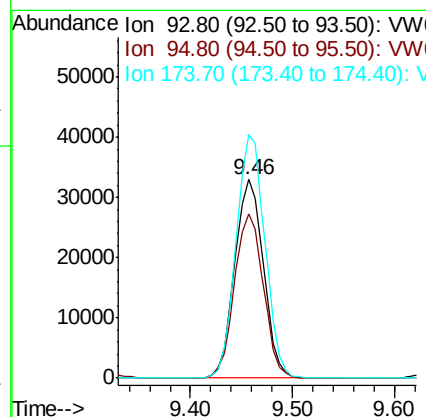
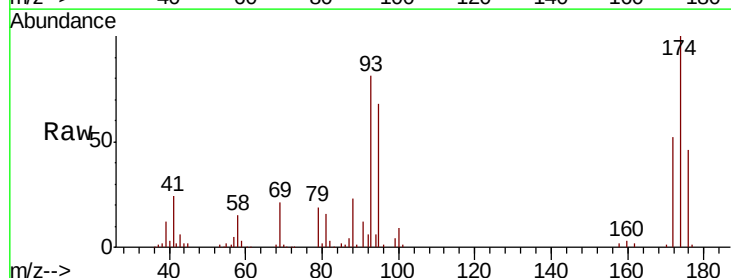
Manual Integrations
 APPROVED

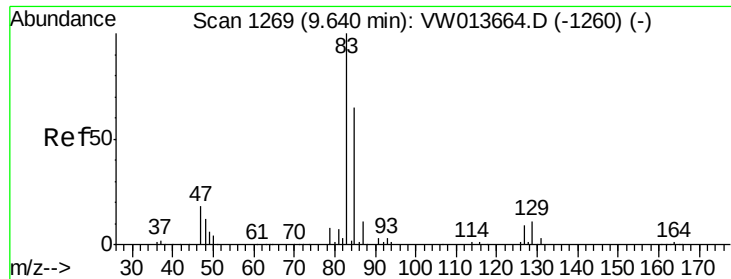
MMDadoda
 10/24/2019 1:25:31 PM



#46
 Dibromomethane
 Concen: 59.725 ug/l
 RT: 9.46 min Scan# 1239
 Delta R.T. -0.00 min
 Lab File: VW013708.D
 Acq: 24 Oct 2019 10:29

Tgt Ion: 93 Resp: 64150
 Ion Ratio Lower Upper
 93 100
 95 83.2 66.5 99.7
 174 123.1 99.6 149.4





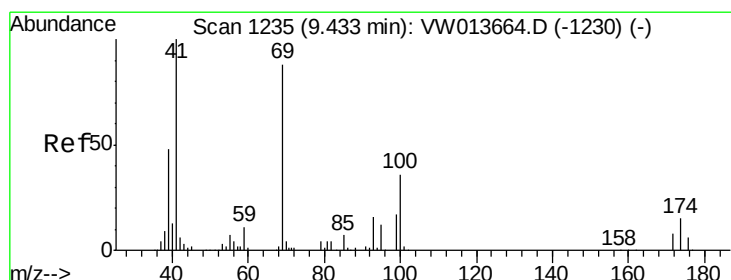
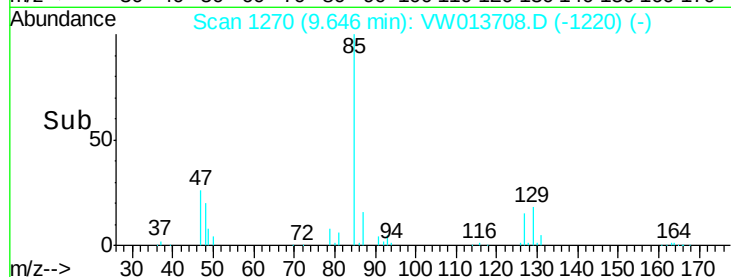
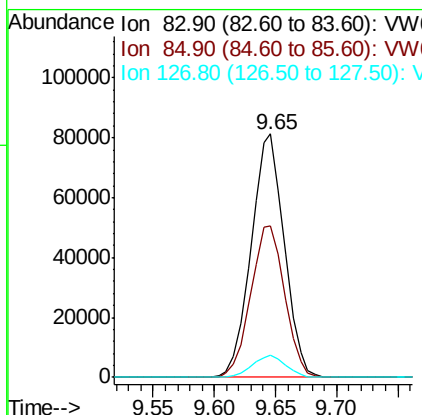
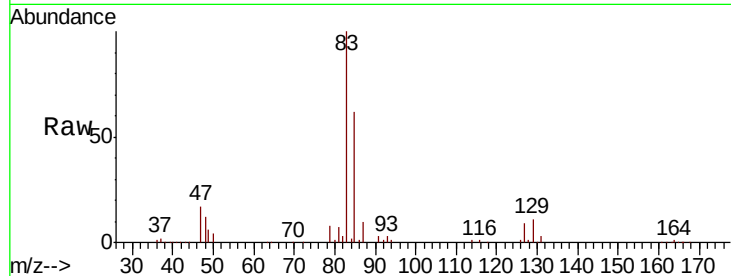
#47
Bromodichloromethane
Concen: 55.026 ug/l
RT: 9.65 min Scan# 1270
Delta R.T. 0.01 min
Lab File: VW013708.D
Acq: 24 Oct 2019 10:29

Instrument :
MSVOA_W
ClientSampleId :
VSTDCCC050EC

Tot Ion	Ratio	Resp	Lower	Upper
83	100	152926		
85	62.3	51.8	77.6	
127	9.1	7.3	10.9	

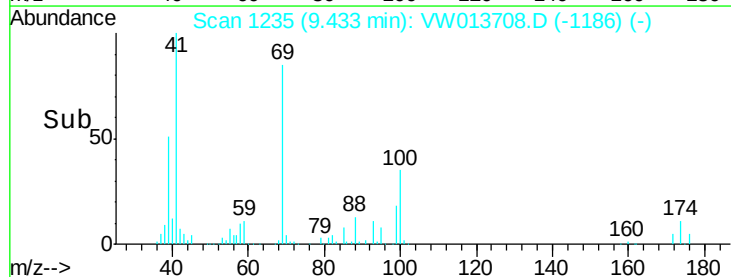
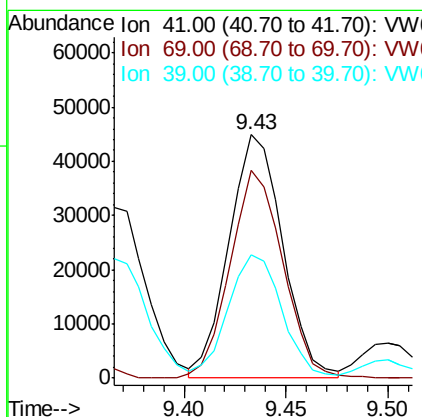
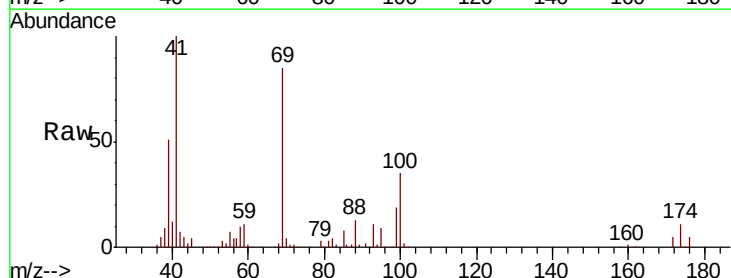
Manual Integrations
APPROVED

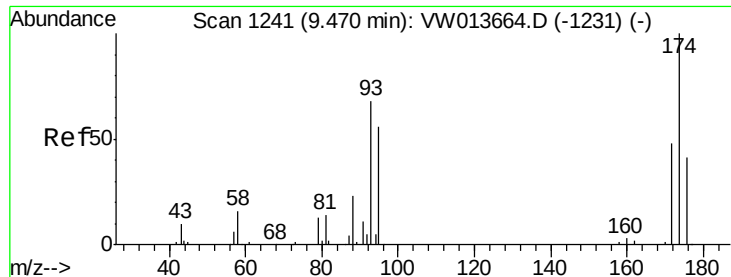
MMDadoda
10/24/2019 1:25:31 PM



#48
Methyl methacrylate
Concen: 69.420 ug/l
RT: 9.43 min Scan# 1235
Delta R.T. -0.00 min
Lab File: VW013708.D
Acq: 24 Oct 2019 10:29

Tgt Ion	Ratio	Resp	Lower	Upper
41	100	82581		
69	83.4	67.6	101.4	
39	47.5	38.6	58.0	





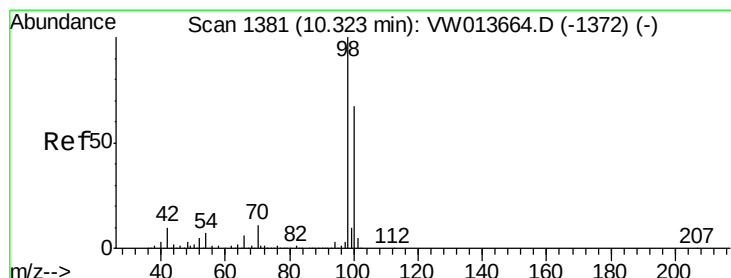
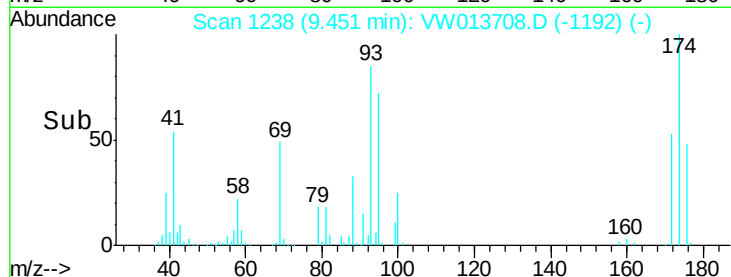
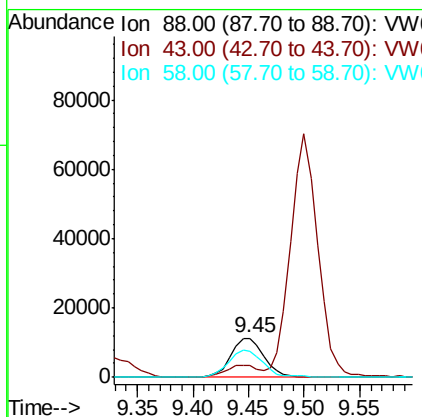
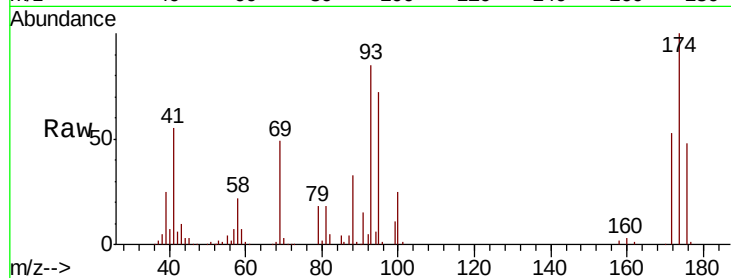
#49
1,4-Dioxane
Concen: 1473.859 ug/l
RT: 9.45 min Scan# 1238
Delta R.T. -0.02 min
Lab File: VW013708.D
Acq: 24 Oct 2019 10:29

Instrument :
MSVOA_W
ClientSampleId :
VSTDCCC050EC

Tot Ion	88	Resp	23393
Ion	Ratio	Lower	Upper
88	100		
43	31.1	0.0	0.0#
58	72.1	58.9	88.3

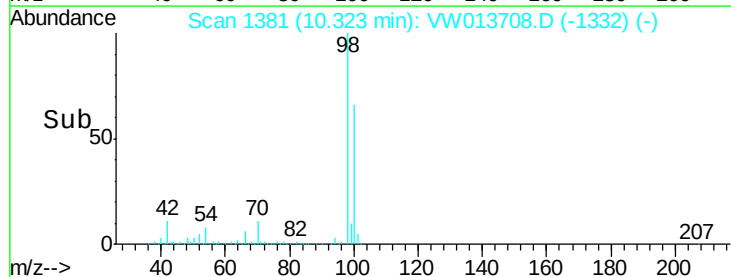
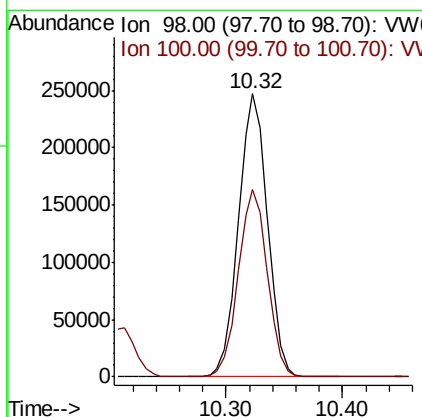
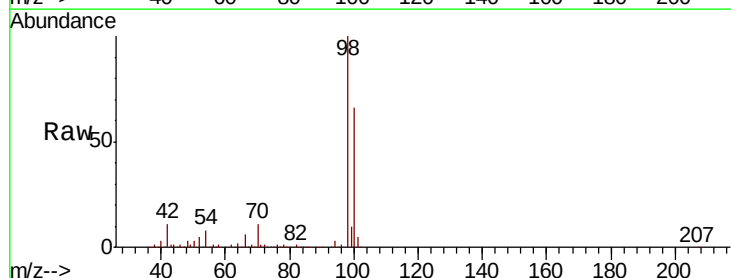
Manual Integrations
APPROVED

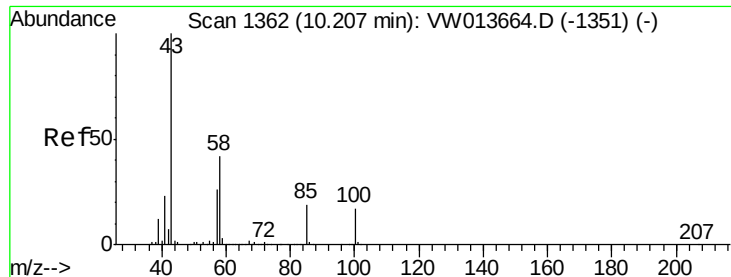
MMDadoda
10/24/2019 1:25:31 PM



#50
Toluene-d8
Concen: 53.908 ug/l
RT: 10.32 min Scan# 1381
Delta R.T. -0.00 min
Lab File: VW013708.D
Acq: 24 Oct 2019 10:29

Tgt Ion	98	Resp	429068
Ion	Ratio	Lower	Upper
98	100		
100	66.4	53.4	80.0





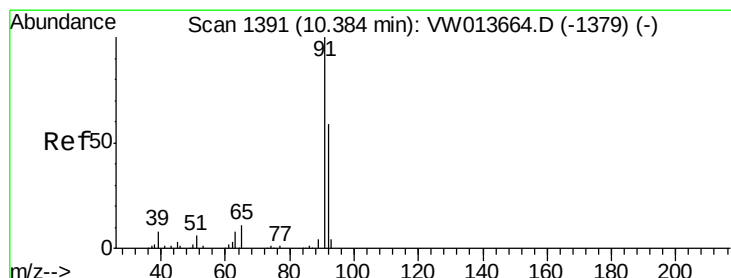
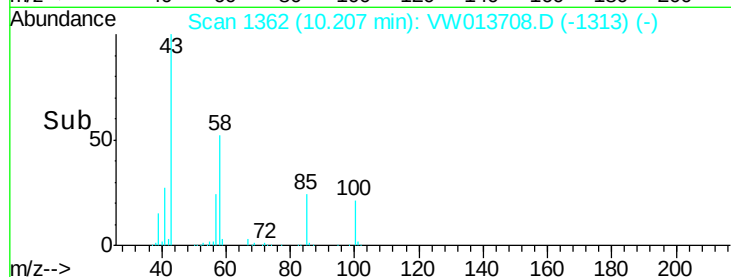
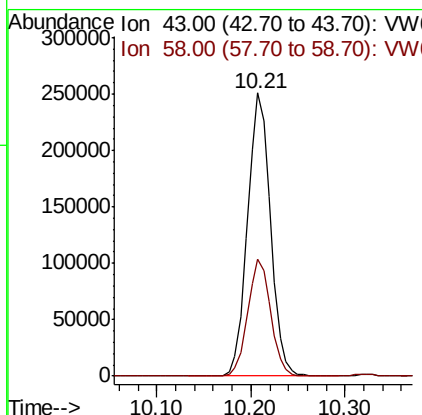
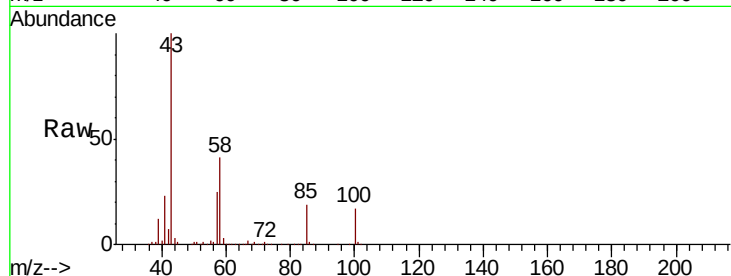
#51
 4-Methyl-2-Pentanone
 Concen: 361.208 ug/l
 RT: 10.21 min Scan# 1362
 Delta R.T. -0.00 min
 Lab File: VW013708.D
 Acq: 24 Oct 2019 10:29

Instrument :
 MSVOA_W
 ClientSampleId :
 VSTDCCC050EC

Tot Ion	Ratio	Lower	Upper
43	100		
58	41.1	32.6	49.0

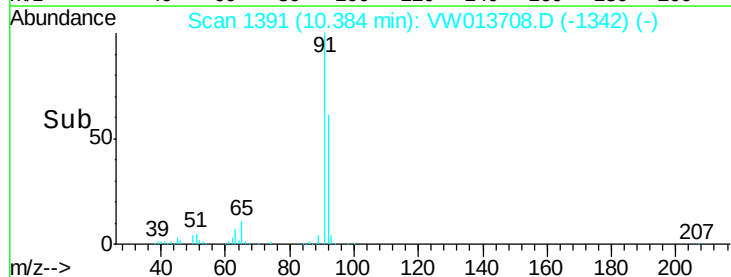
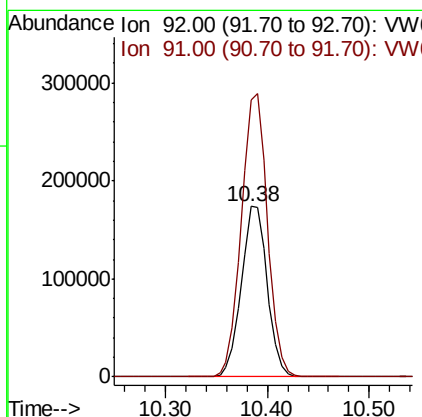
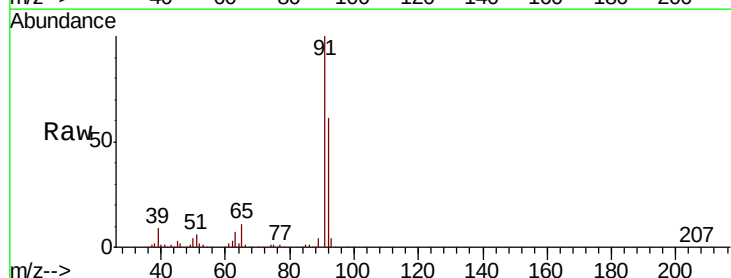
Manual Integrations
 APPROVED

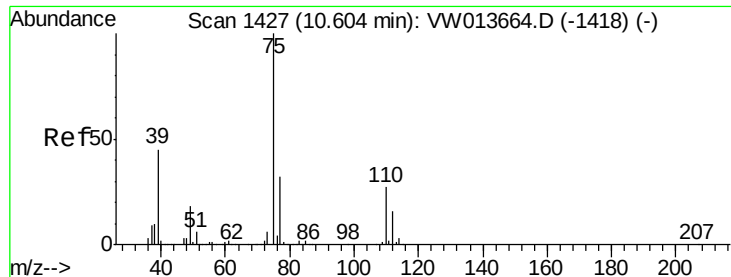
MMDadoda
 10/24/2019 1:25:31 PM



#52
 Toluene
 Concen: 51.289 ug/l
 RT: 10.38 min Scan# 1391
 Delta R.T. -0.00 min
 Lab File: VW013708.D
 Acq: 24 Oct 2019 10:29

Tgt Ion	Ratio	Lower	Upper
92	100		
91	167.3	134.5	201.7





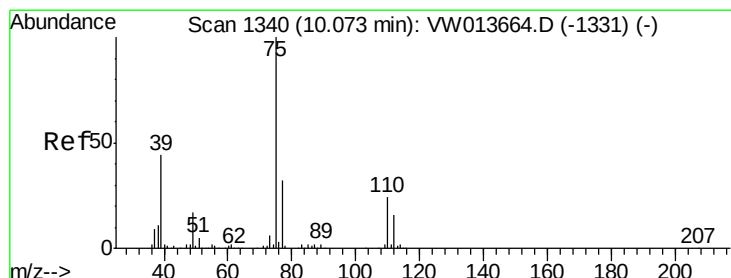
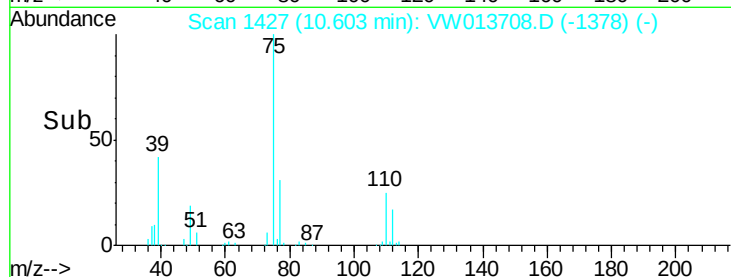
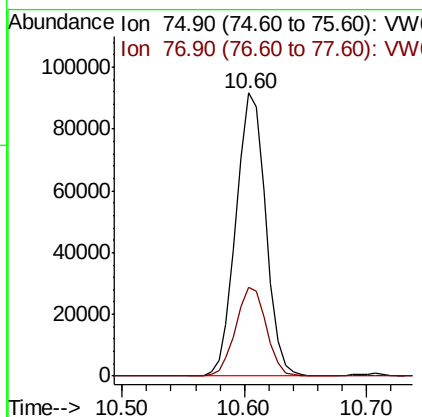
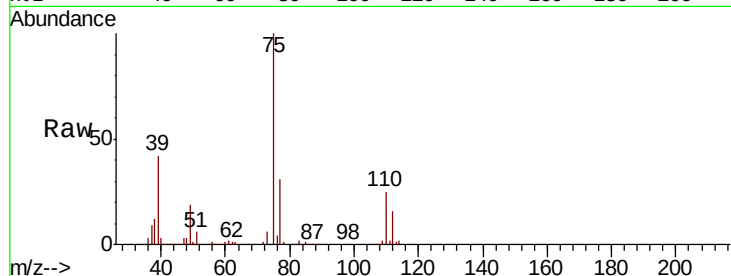
#53
t-1,3-Dichloropropene
Concen: 54.771 ug/l
RT: 10.60 min Scan# 1427
Delta R.T. -0.00 min
Lab File: VW013708.D
Acq: 24 Oct 2019 10:29

Instrument :
MSVOA_W
ClientSampleId :
VSTDCCC050EC

Tot Ion	Ratio	Lower	Upper
75	100		
77	31.1	25.5	38.3

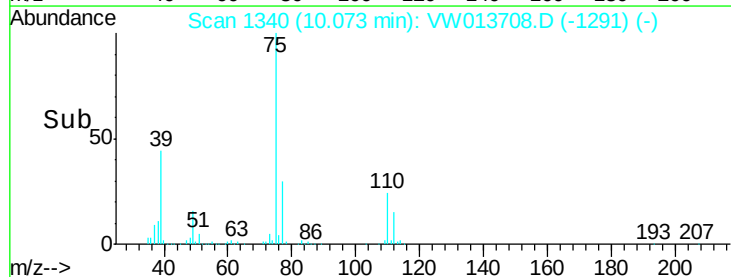
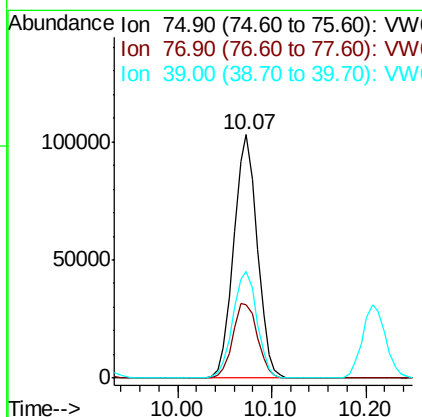
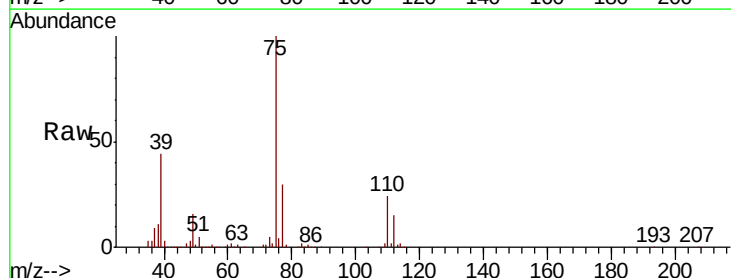
Manual Integrations
APPROVED

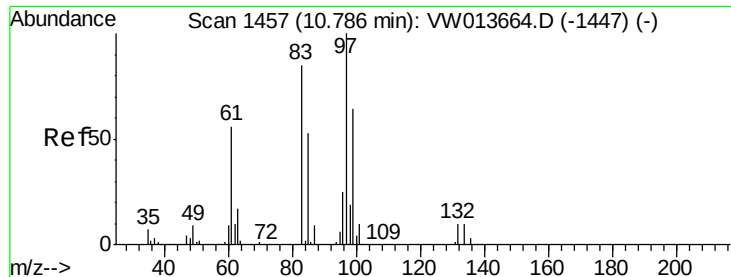
MMDadoda
10/24/2019 1:25:31 PM



#54
cis-1,3-Dichloropropene
Concen: 51.569 ug/l
RT: 10.07 min Scan# 1340
Delta R.T. -0.00 min
Lab File: VW013708.D
Acq: 24 Oct 2019 10:29

Tgt Ion	Ratio	Lower	Upper
75	100		
77	30.4	25.8	38.6
39	43.9	35.3	52.9





#55

1,1,2-Trichloroethane

Concen: 60.245 ug/l

RT: 10.79 min Scan# 1457

Delta R.T. -0.00 min

Lab File: VW013708.D

Acq: 24 Oct 2019 10:29

Instrument :

MSVOA_W

ClientSampleId :

VSTDCCC050EC

Tot Ion: 97 Resp: 96438

Ion Ratio Lower Upper

97 100

83 80.7 67.8 101.8

85 50.2 42.1 63.1

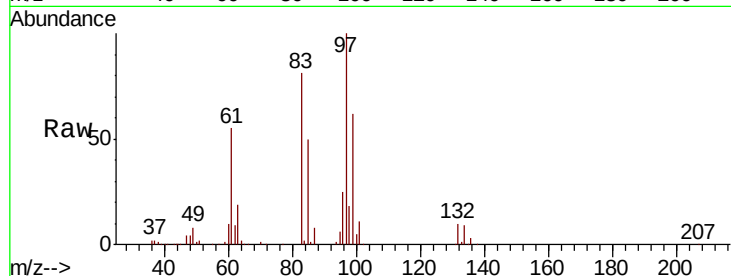
99 61.6 51.4 77.0

Manual Integrations

APPROVED

MMDadoda

10/24/2019 1:25:31 PM

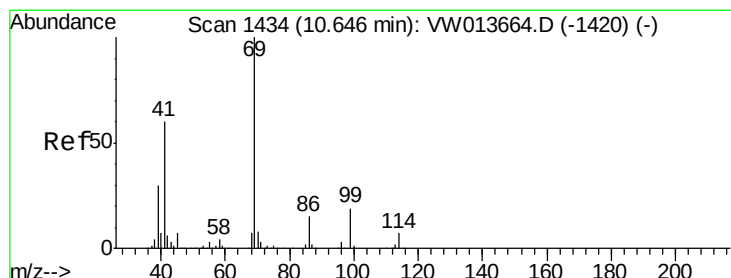
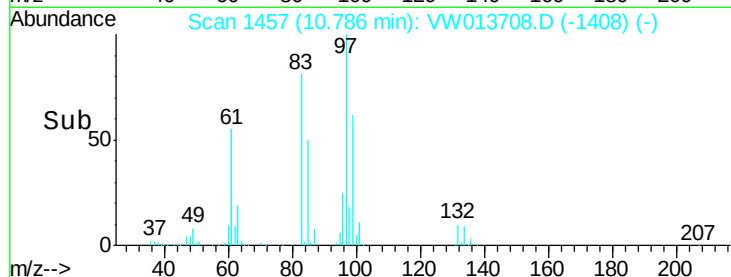
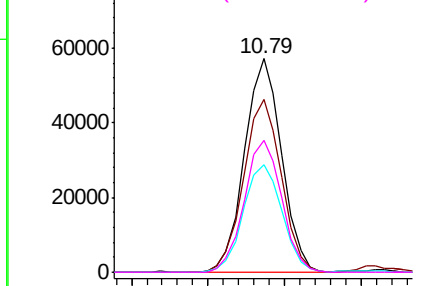


Abundance Ion 96.90 (96.60 to 97.60): VW

Ion 82.90 (82.60 to 83.60): VW

Ion 84.90 (84.60 to 85.60): VW

Ion 98.90 (98.60 to 99.60): VW



#56

Ethyl methacrylate

Concen: 67.215 ug/l

RT: 10.65 min Scan# 1434

Delta R.T. -0.00 min

Lab File: VW013708.D

Acq: 24 Oct 2019 10:29

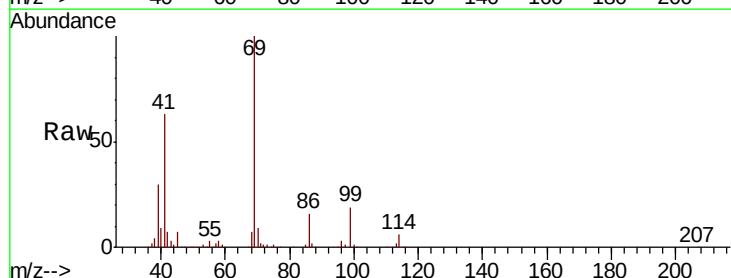
Tgt Ion: 69 Resp: 134615

Ion Ratio Lower Upper

69 100

41 63.5 51.6 77.4

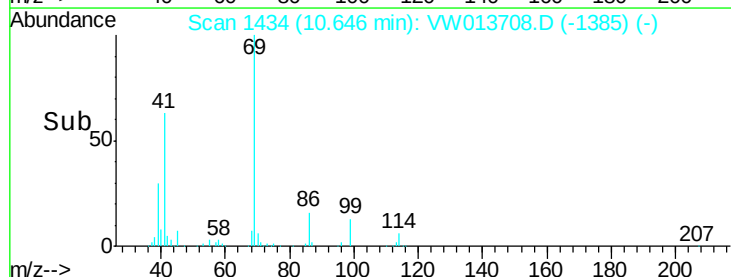
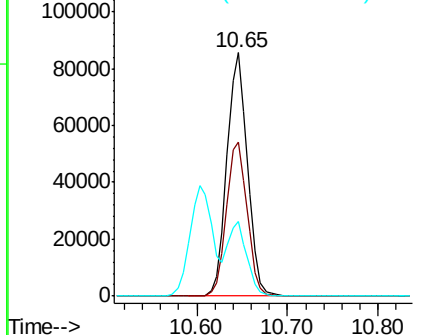
39 27.7 22.4 33.6

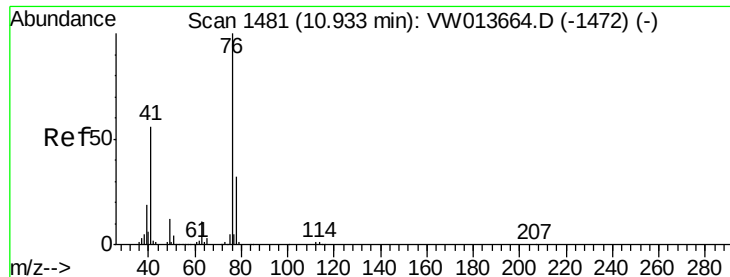


Abundance Ion 69.00 (68.70 to 69.70): VW

Ion 41.00 (40.70 to 41.70): VW

Ion 39.00 (38.70 to 39.70): VW





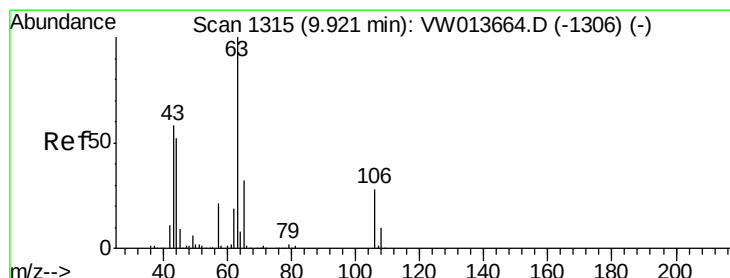
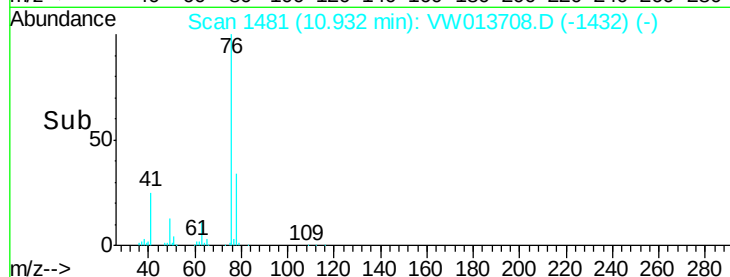
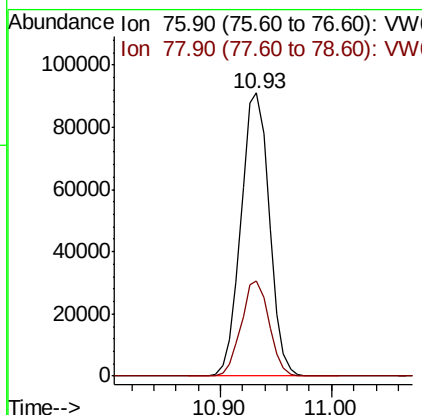
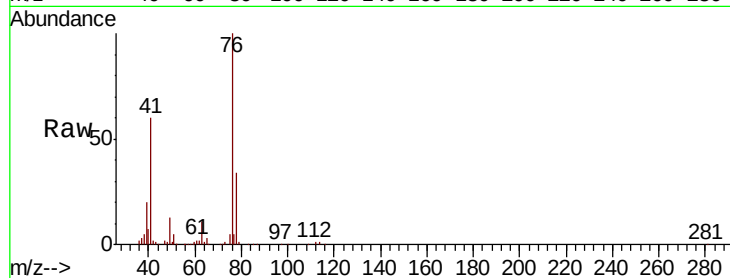
#57
 1,3-Dichloropropane
 Concen: 58.664 ug/l
 RT: 10.93 min Scan# 1481
 Delta R.T. -0.00 min
 Lab File: VW013708.D
 Acq: 24 Oct 2019 10:29

Instrument :
 MSVOA_W
 ClientSampleId :
 VSTDCCC050EC

Tot Ion	Ratio	Lower	Upper
76	100		
78	33.1	26.0	39.0

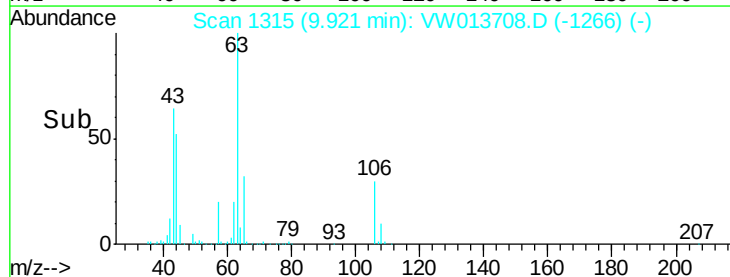
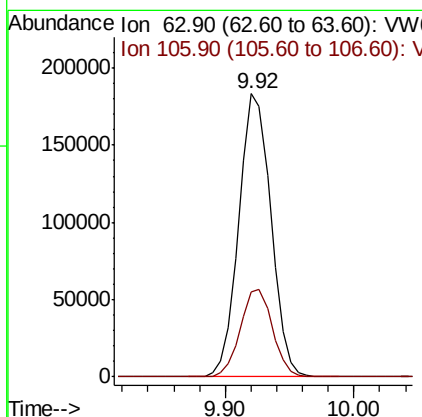
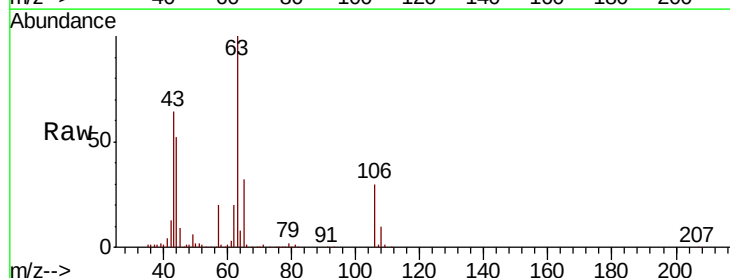
Manual Integrations
 APPROVED

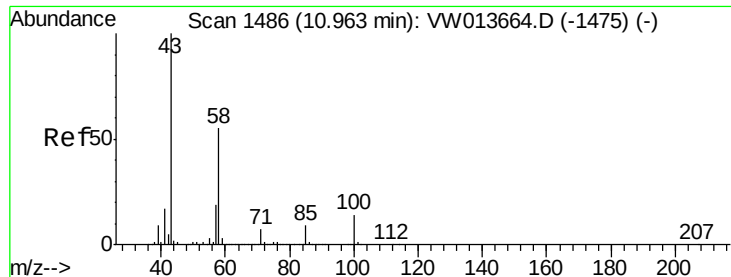
MMDadoda
 10/24/2019 1:25:31 PM



#58
 2-Chloroethyl Vinyl ether
 Concen: 342.965 ug/l
 RT: 9.92 min Scan# 1315
 Delta R.T. -0.00 min
 Lab File: VW013708.D
 Acq: 24 Oct 2019 10:29

Tgt Ion	Ratio	Lower	Upper
63	100		
106	31.1	23.8	35.8





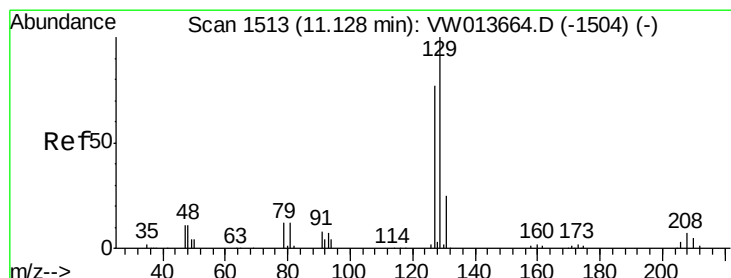
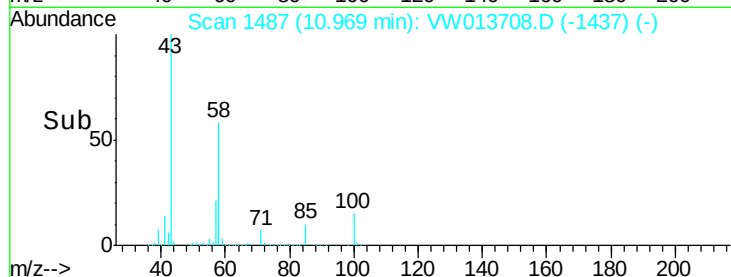
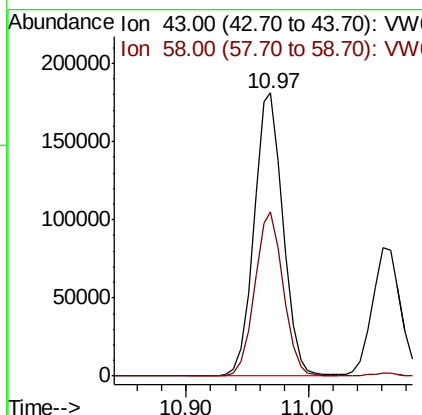
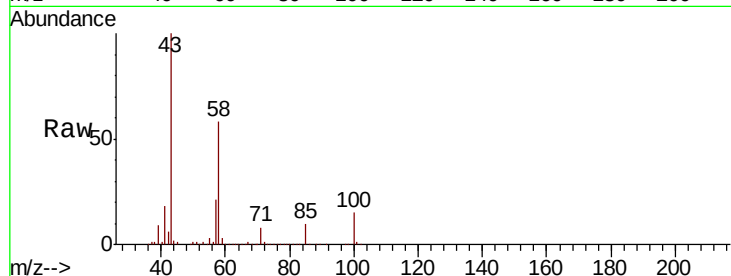
#59
2-Hexanone
Concen: 363.200 ug/l
RT: 10.97 min Scan# 1487
Delta R.T. 0.01 min
Lab File: VW013708.D
Acq: 24 Oct 2019 10:29

Instrument :
MSVOA_W
ClientSampleId :
VSTDCCC050EC

Tot Ion	43	Resp	298469
Ion Ratio	100	Lower	Upper
43	100		
58	57.1	27.9	83.7

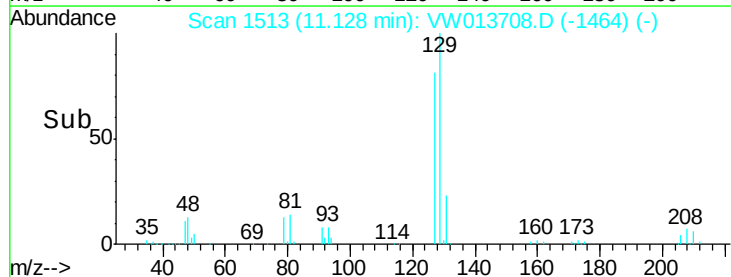
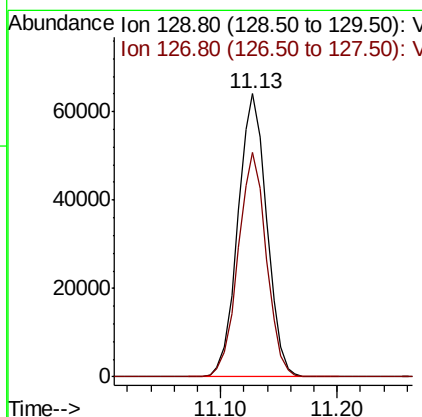
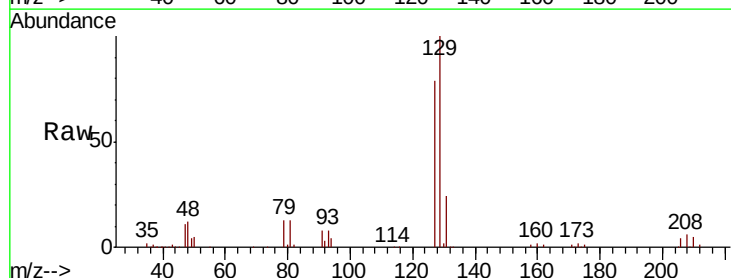
Manual Integrations
APPROVED

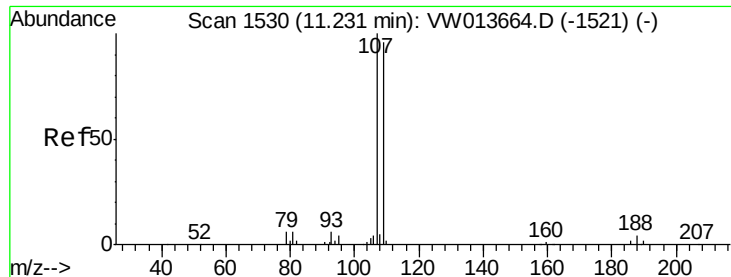
MMDadoda
10/24/2019 1:25:31 PM



#60
Dibromochloromethane
Concen: 58.206 ug/l
RT: 11.13 min Scan# 1513
Delta R.T. -0.00 min
Lab File: VW013708.D
Acq: 24 Oct 2019 10:29

Tgt Ion	129	Resp	110627
Ion Ratio	100	Lower	Upper
129	100		
127	77.5	38.9	116.7





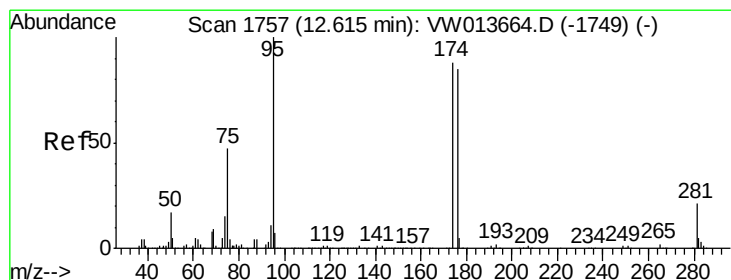
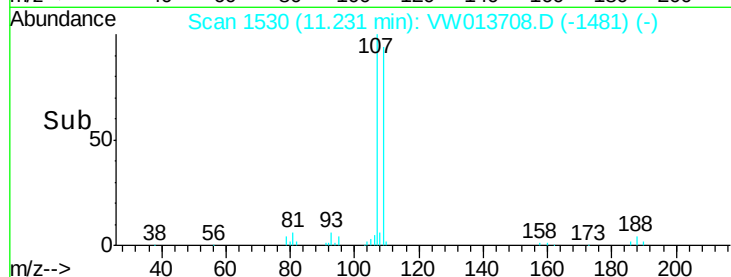
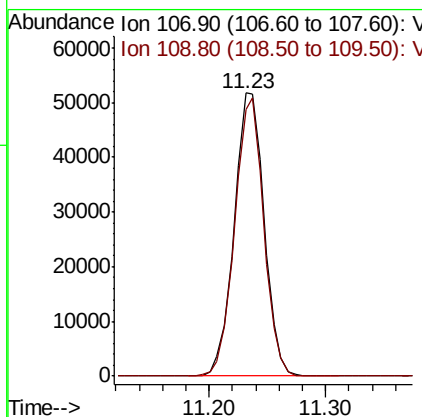
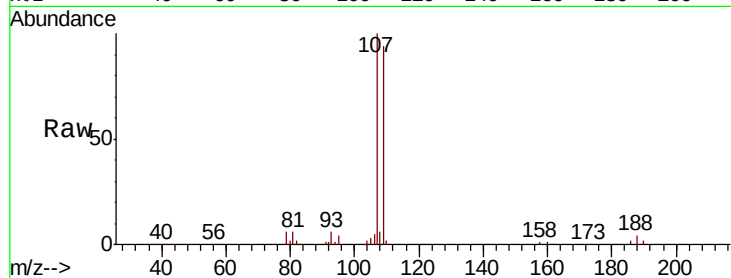
#61
 1,2-Dibromoethane
 Concen: 61.215 ug/l
 RT: 11.23 min Scan# 1530
 Delta R.T. -0.00 min
 Lab File: VW013708.D
 Acq: 24 Oct 2019 10:29

Instrument :
 MSVOA_W
 ClientSampleId :
 VSTDCCC050EC

Tot Ion: 107 Resp: 92706
 Ion Ratio Lower Upper
 107 100
 109 95.2 75.7 113.5

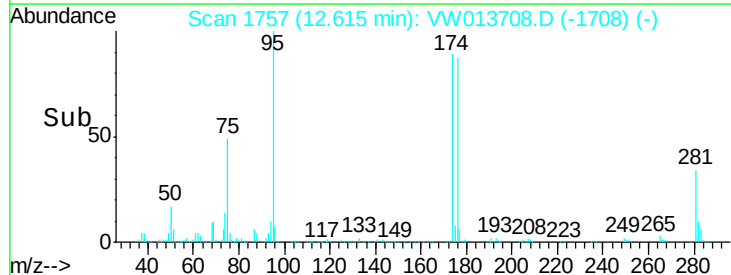
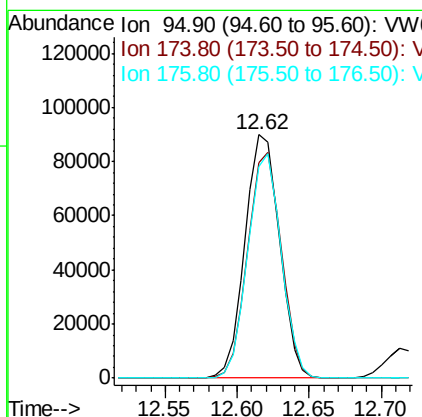
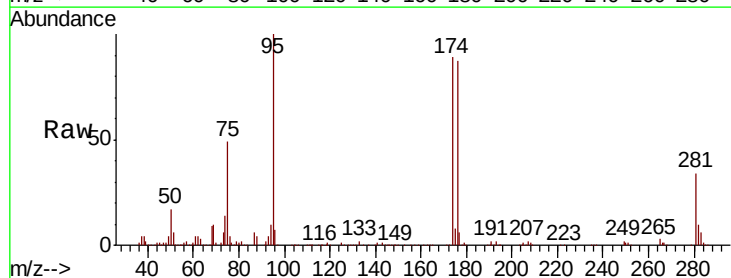
Manual Integrations
 APPROVED

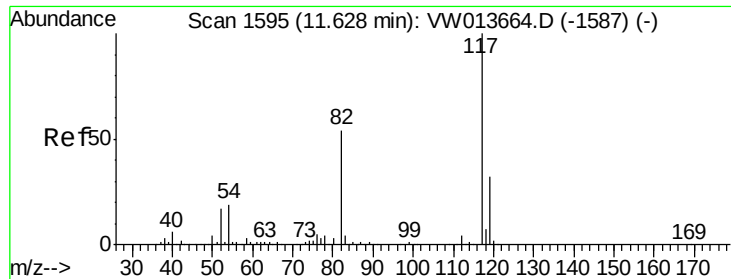
MMDadoda
 10/24/2019 1:25:31 PM



#62
 4-Bromofluorobenzene
 Concen: 55.262 ug/l
 RT: 12.62 min Scan# 1757
 Delta R.T. -0.00 min
 Lab File: VW013708.D
 Acq: 24 Oct 2019 10:29

Tgt Ion: 95 Resp: 148931
 Ion Ratio Lower Upper
 95 100
 174 90.6 0.0 183.6
 176 89.3 0.0 178.0





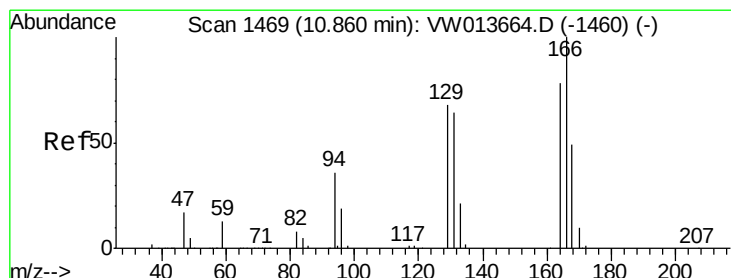
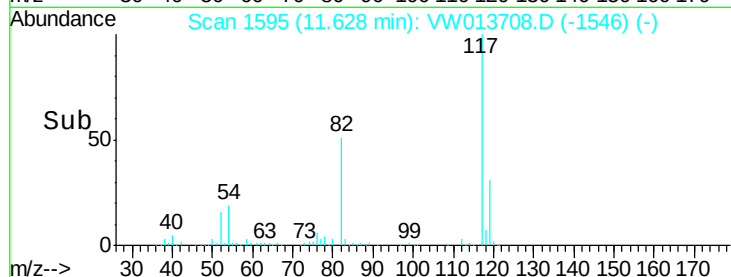
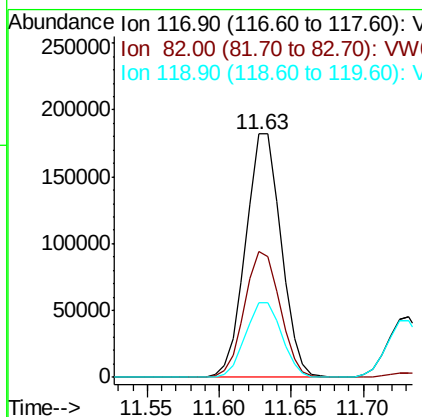
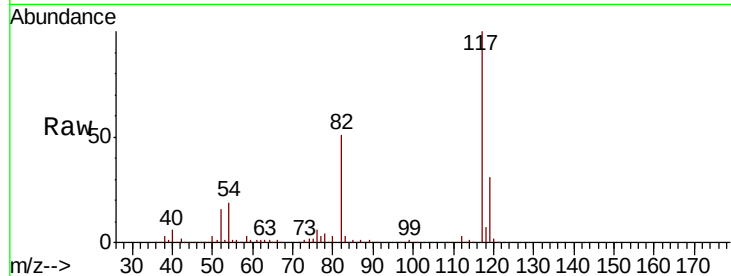
#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.63 min Scan# 1595
Delta R.T. -0.00 min
Lab File: VW013708.D
Acq: 24 Oct 2019 10:29

Instrument :
MSVOA_W
ClientSampleId :
VSTDCCC050EC

Tot Ion	Ratio	Lower	Upper
117	100		
82	51.5	43.6	65.4
119	30.8	25.4	38.2

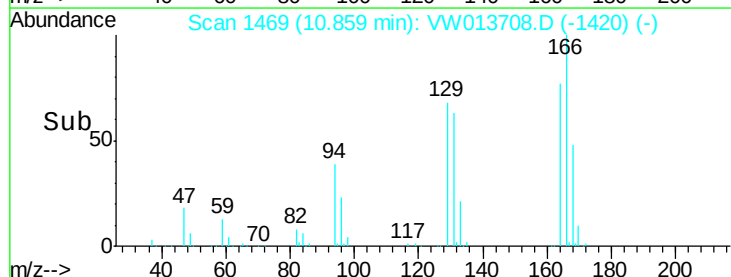
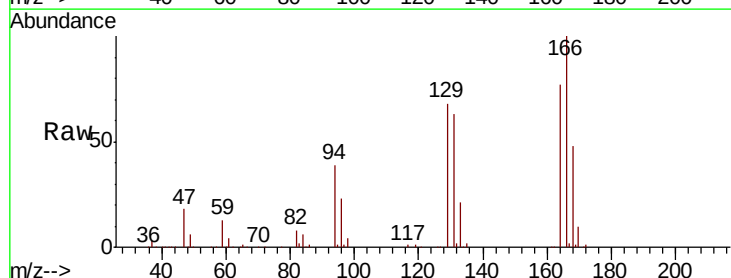
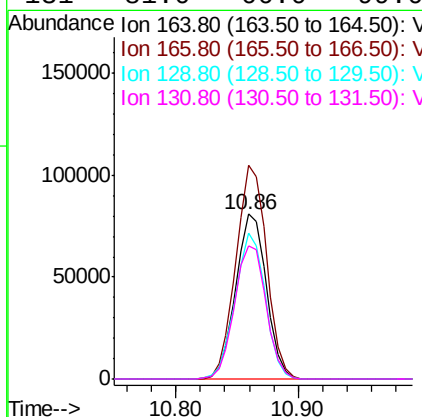
Manual Integrations
APPROVED

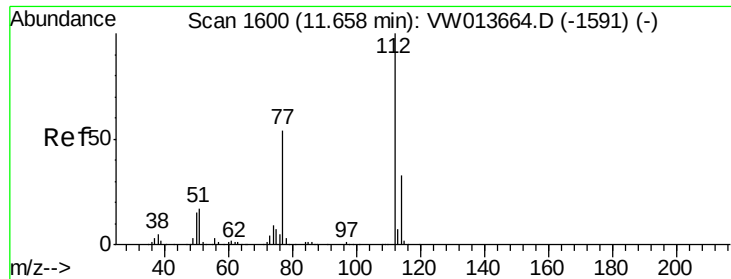
MMDadoda
10/24/2019 1:25:31 PM



#64
Tetrachloroethene
Concen: 59.158 ug/l
RT: 10.86 min Scan# 1469
Delta R.T. -0.00 min
Lab File: VW013708.D
Acq: 24 Oct 2019 10:29

Tgt Ion	Ratio	Lower	Upper
164	100		
166	129.4	103.2	154.8
129	88.4	70.6	105.8
131	81.0	66.0	99.0





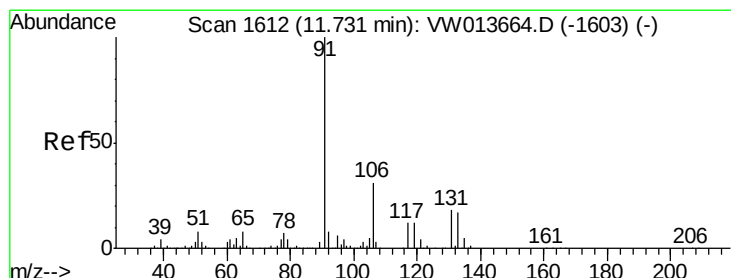
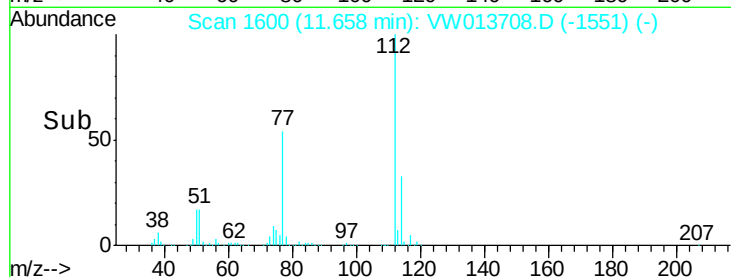
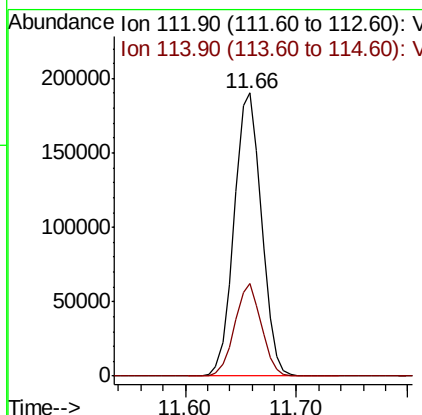
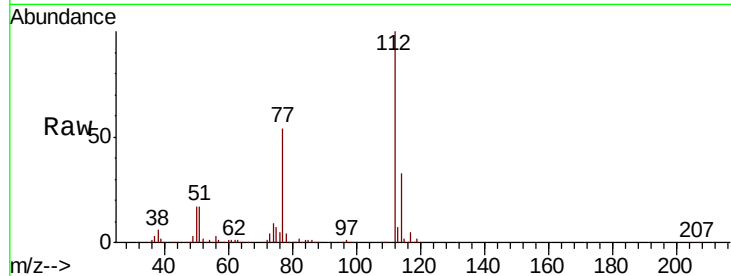
#65
Chlorobenzene
Concen: 50.542 ug/l
RT: 11.66 min Scan# 1600
Delta R.T. -0.00 min
Lab File: VW013708.D
Acq: 24 Oct 2019 10:29

Instrument :
MSVOA_W
ClientSampleId :
VSTDCCC050EC

Tot Ion	Ratio	Lower	Upper
112	100		
114	32.6	26.2	39.4

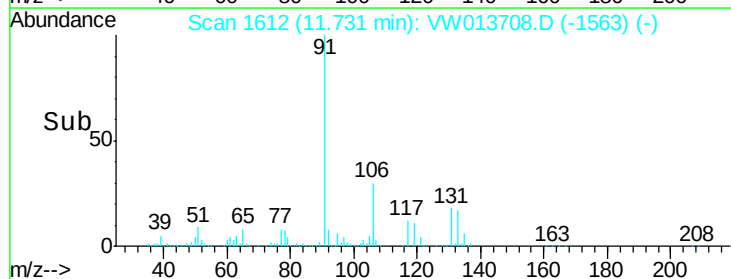
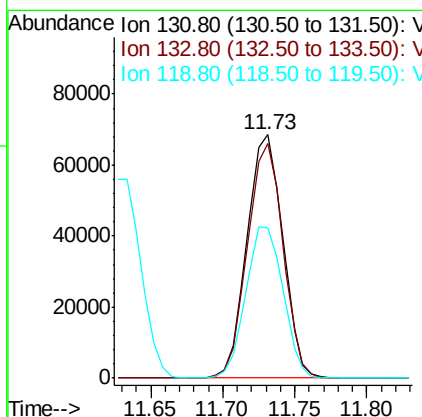
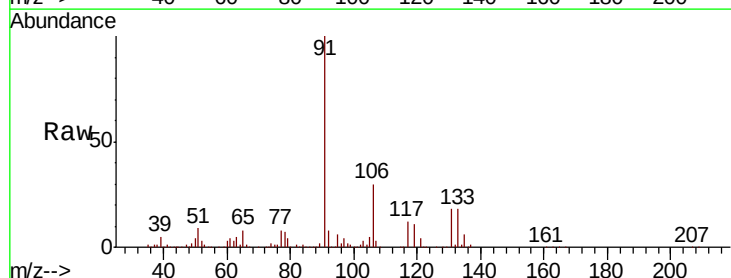
Manual Integrations
APPROVED

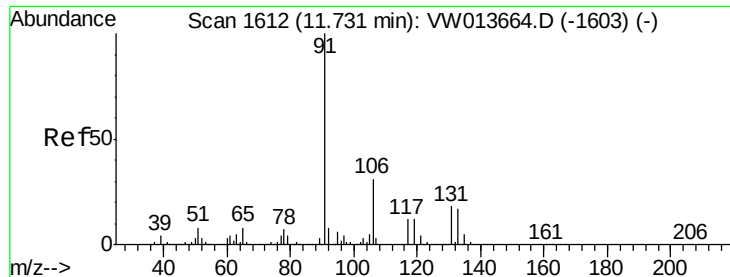
MMDadoda
10/24/2019 1:25:31 PM



#66
1,1,1,2-Tetrachloroethane
Concen: 52.922 ug/l
RT: 11.73 min Scan# 1612
Delta R.T. -0.00 min
Lab File: VW013708.D
Acq: 24 Oct 2019 10:29

Tgt Ion	Ratio	Lower	Upper
131	100		
133	95.7	47.4	142.3
119	64.4	33.1	99.2





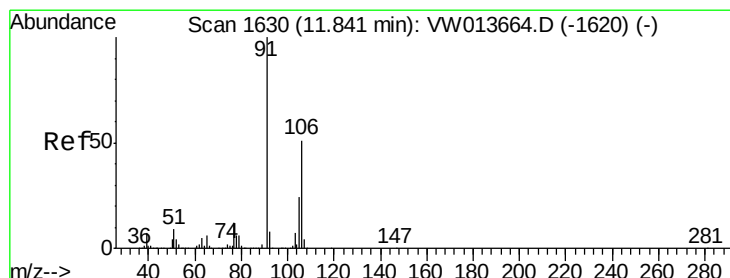
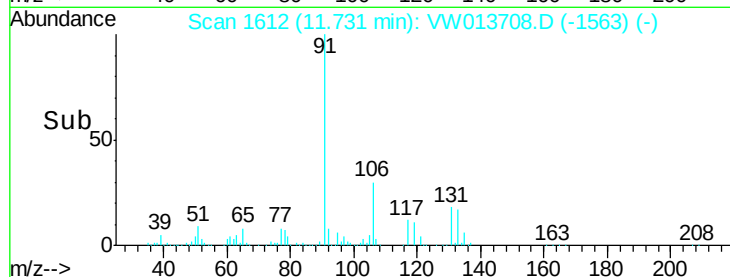
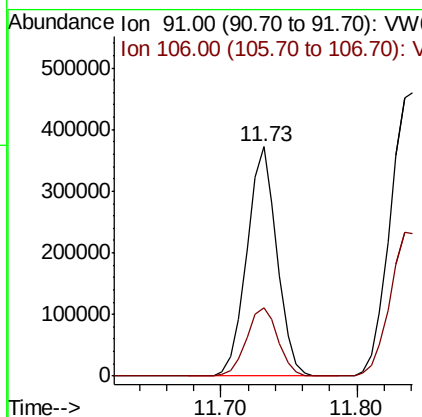
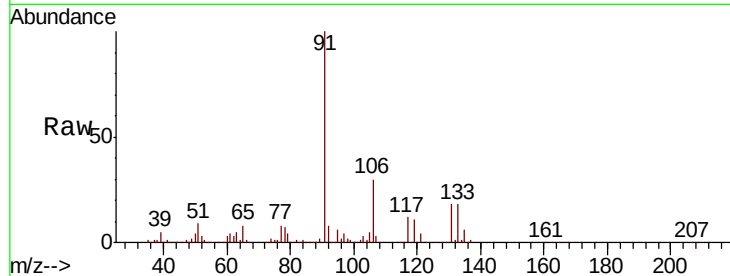
#67
Ethyl Benzene
Concen: 49.834 ug/l
RT: 11.73 min Scan# 1612
Delta R.T. -0.00 min
Lab File: VW013708.D
Acq: 24 Oct 2019 10:29

Instrument :
MSVOA_W
ClientSampleId :
VSTDCCC050EC

Tot Ion: 91 Resp: 573716
Ion Ratio Lower Upper
91 100
106 29.8 25.0 37.6

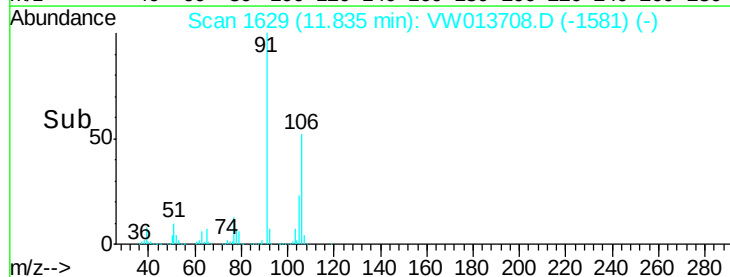
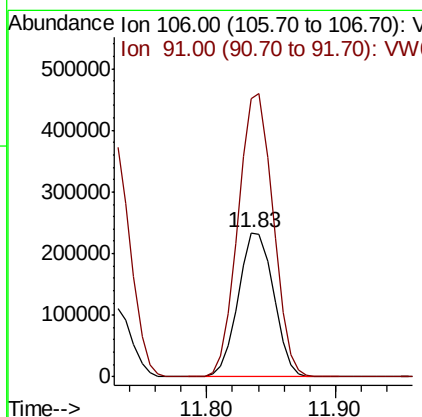
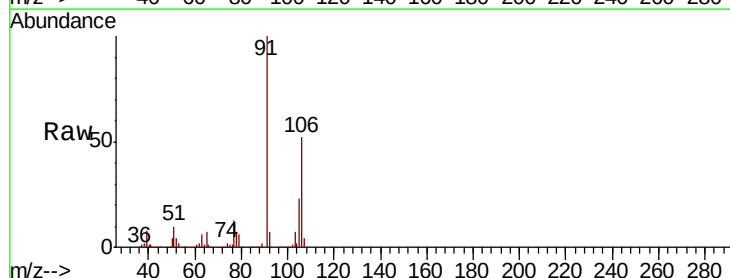
Manual Integrations
APPROVED

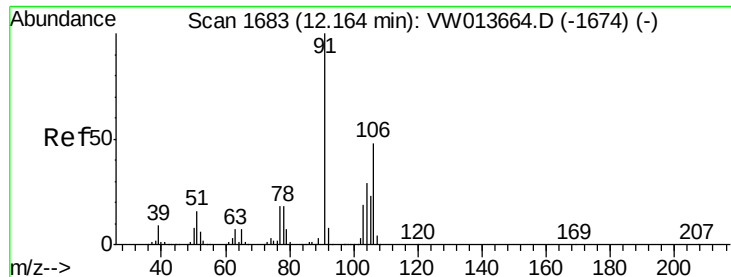
MMDadoda
10/24/2019 1:25:31 PM



#68
m/p-Xylenes
Concen: 100.204 ug/l
RT: 11.83 min Scan# 1629
Delta R.T. -0.01 min
Lab File: VW013708.D
Acq: 24 Oct 2019 10:29

Tgt Ion: 106 Resp: 445698
Ion Ratio Lower Upper
106 100
91 194.1 159.2 238.8





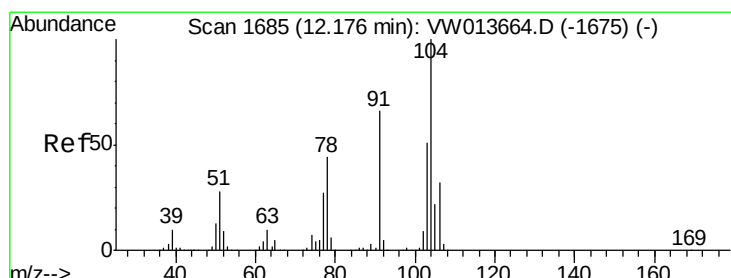
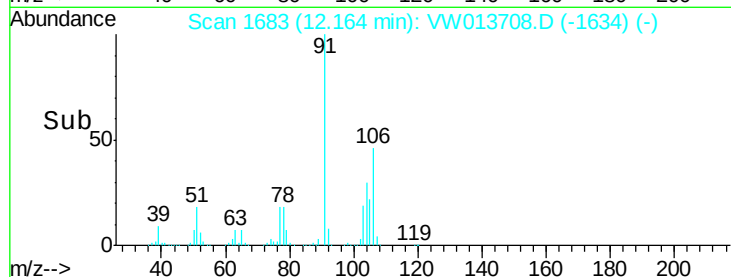
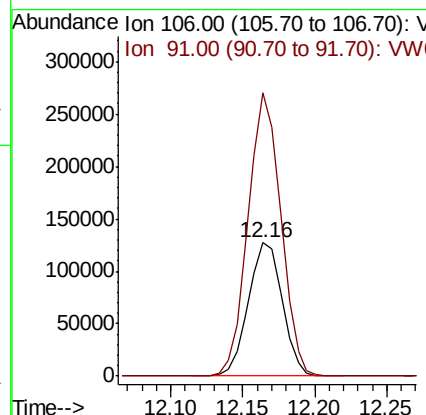
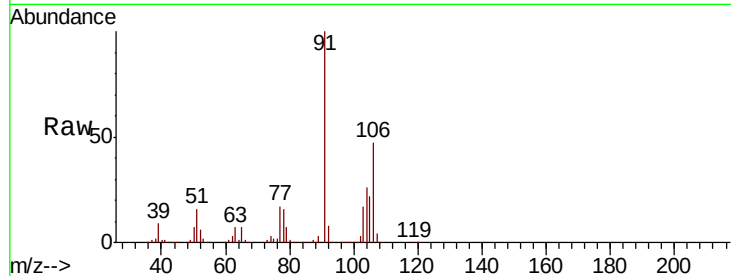
#69
o-Xylene
Concen: 50.767 ug/l
RT: 12.16 min Scan# 1683
Delta R.T. -0.00 min
Lab File: VW013708.D
Acq: 24 Oct 2019 10:29

Instrument :
MSVOA_W
ClientSampleId :
VSTDCCC050EC

Tot Ion	Ion	Ratio	Resp	Lower	Upper
106	100		207555		
91	205.3	104.9	314.7		

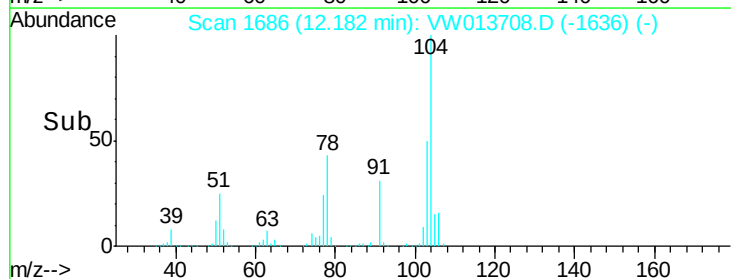
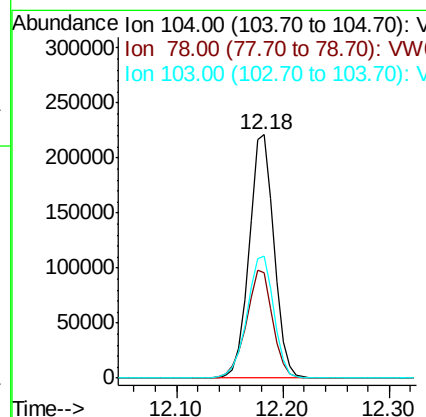
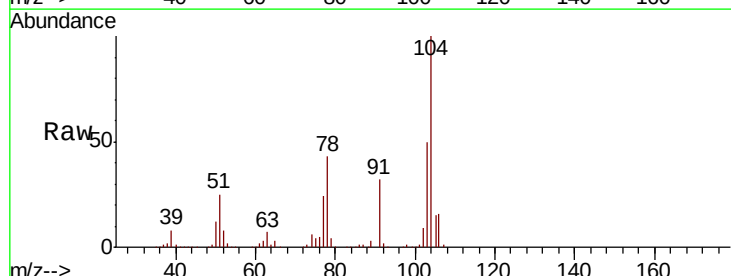
Manual Integrations
APPROVED

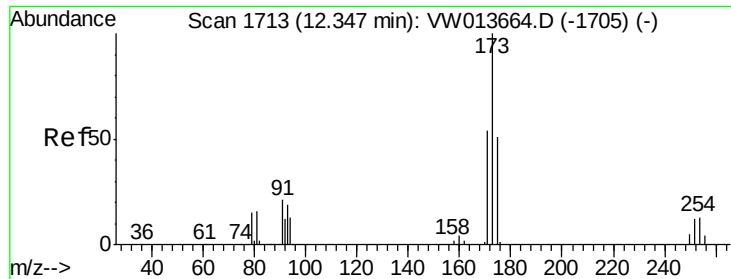
MMDadoda
10/24/2019 1:25:31 PM



#70
Styrene
Concen: 51.560 ug/l
RT: 12.18 min Scan# 1686
Delta R.T. 0.01 min
Lab File: VW013708.D
Acq: 24 Oct 2019 10:29

Tgt Ion	Ion	Ratio	Resp	Lower	Upper
104	100		362178		
78	46.9	37.1	55.7		
103	54.3	43.6	65.4		





#71

Bromoform

Concen: 62.044 ug/l

RT: 12.35 min Scan# 1713

Delta R.T. -0.00 min

Lab File: VW013708.D

Acq: 24 Oct 2019 10:29

Instrument :

MSVOA_W

ClientSampleId :

VSTDCCC050EC

Tot Ion:173 Resp: 72550

Ion Ratio Lower Upper

173 100

175 48.9 25.2 75.6

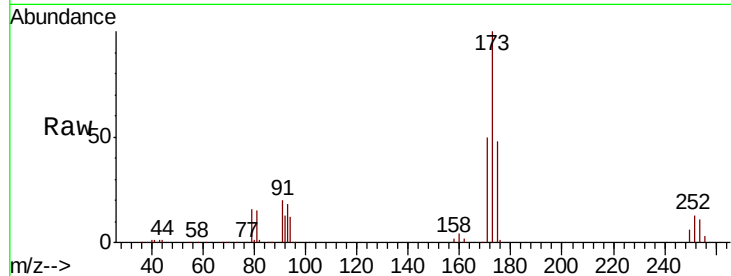
254 0.0 0.1 0.1#

Manual Integrations

APPROVED

MMDadoda

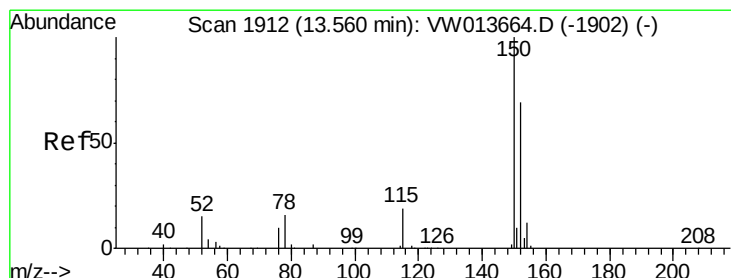
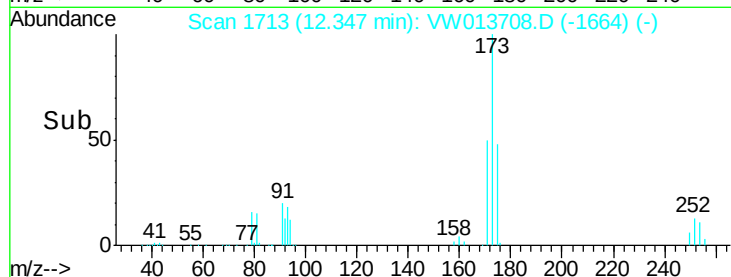
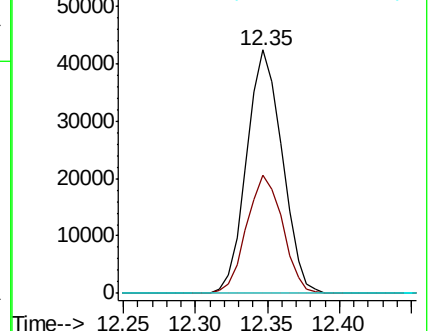
10/24/2019 1:25:31 PM



Abundance Ion 172.70 (172.40 to 173.40): V

Ion 174.70 (174.40 to 175.40): V

Ion 254.40 (254.10 to 255.10): V



#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

RT: 13.56 min Scan# 1912

Delta R.T. -0.00 min

Lab File: VW013708.D

Acq: 24 Oct 2019 10:29

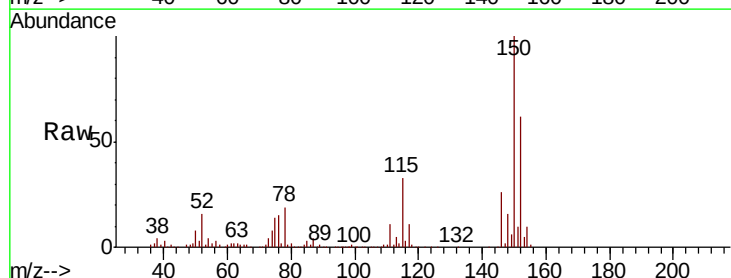
Tgt Ion:152 Resp: 159648

Ion Ratio Lower Upper

152 100

115 53.6 27.4 82.2

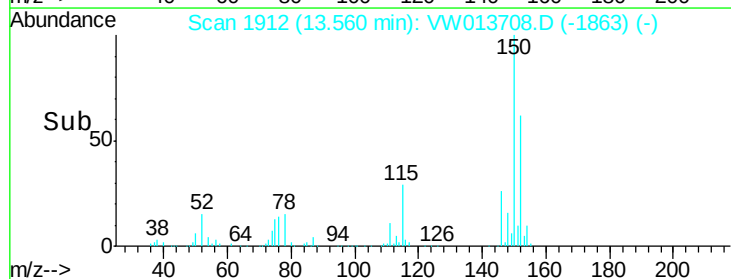
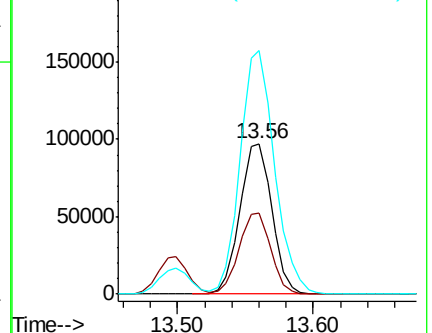
150 174.1 0.0 345.4

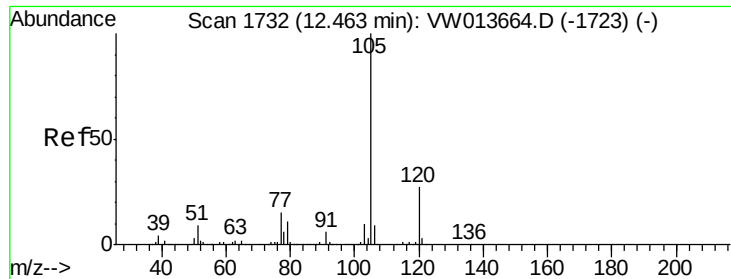


Abundance Ion 151.90 (151.60 to 152.60): V

Ion 114.90 (114.60 to 115.60): V

Ion 149.90 (149.60 to 150.60): V





#73

Isopropylbenzene

Concen: 49.193 ug/l

RT: 12.46 min Scan# 1732

Delta R.T. -0.00 min

Lab File: VW013708.D

Acq: 24 Oct 2019 10:29

Instrument :

MSVOA_W

ClientSampleId :

VSTDCCC050EC

Tot Ion: 105 Resp: 563990

Ion Ratio Lower Upper

105 100

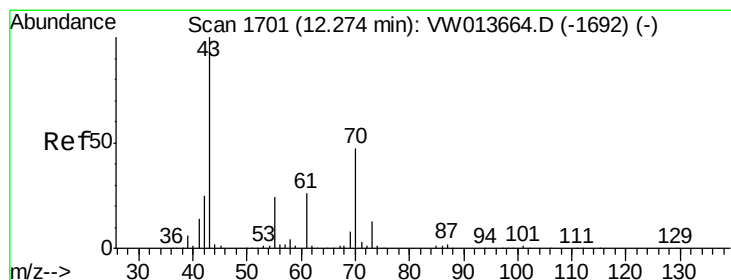
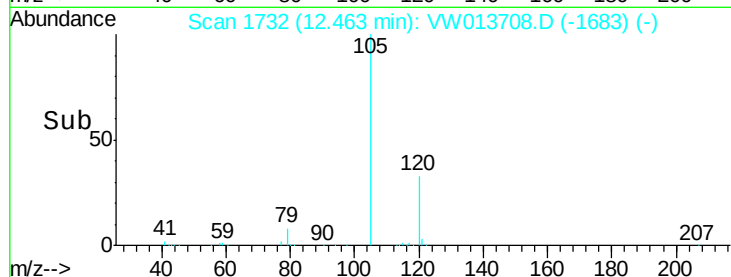
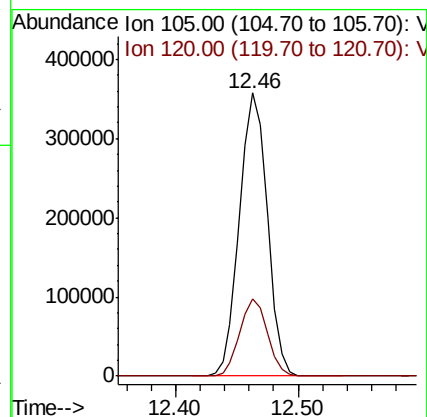
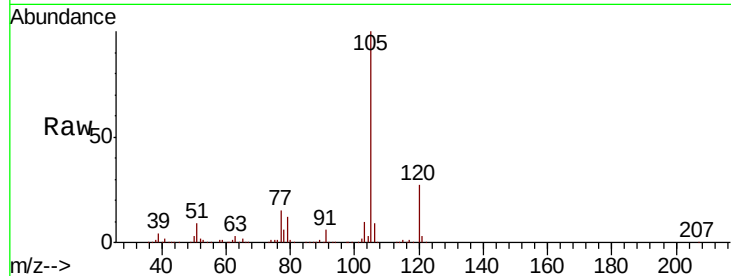
120 27.0 13.5 40.4

Manual Integrations

APPROVED

MMDadoda

10/24/2019 1:25:31 PM



#74

N-ethyl acetate

Concen: 61.155 ug/l

RT: 12.27 min Scan# 1701

Delta R.T. -0.00 min

Lab File: VW013708.D

Acq: 24 Oct 2019 10:29

Tgt Ion: 43 Resp: 135629

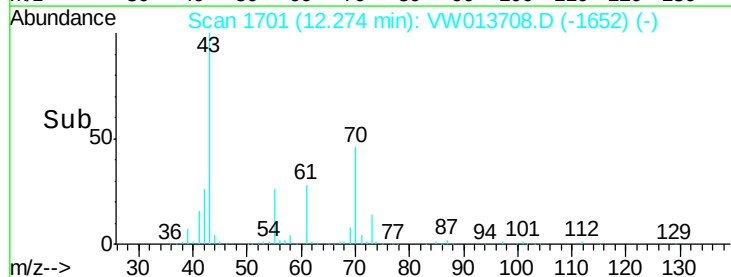
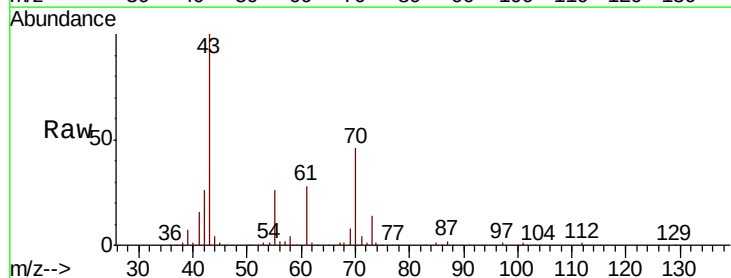
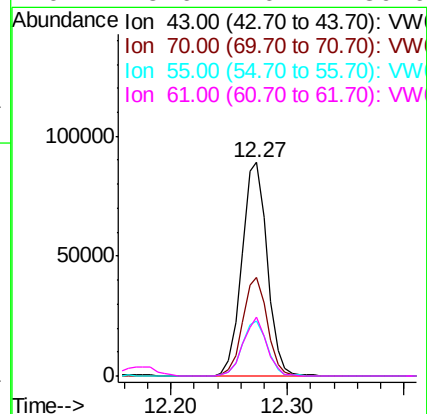
Ion Ratio Lower Upper

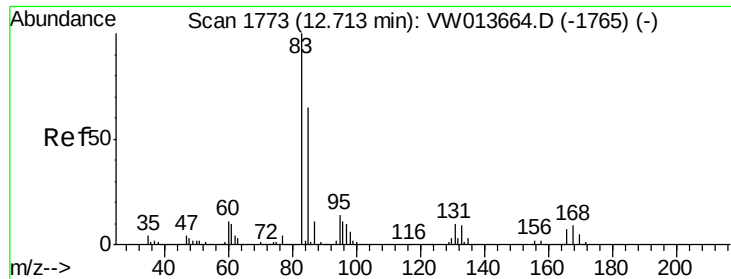
43 100

70 44.8 36.6 55.0

55 25.7 20.3 30.5

61 25.6 20.4 30.6





#75

1,1,2,2-Tetrachloroethane

Concen: 63.158 ug/l

RT: 12.71 min Scan# 1773

Delta R.T. -0.00 min

Lab File: VW013708.D

Acq: 24 Oct 2019 10:29

Instrument :

MSVOA_W

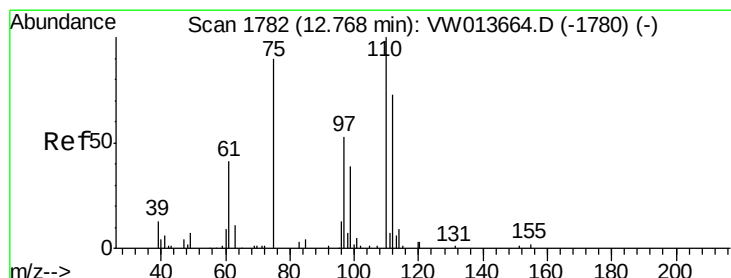
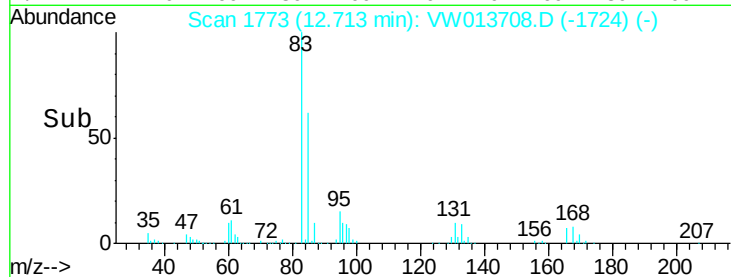
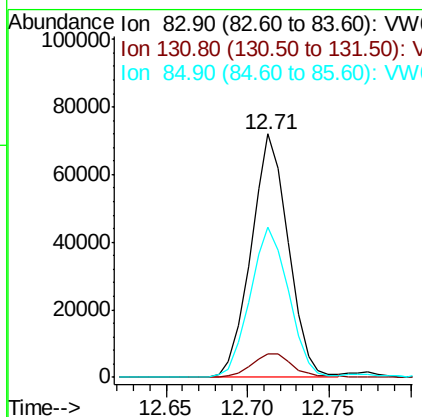
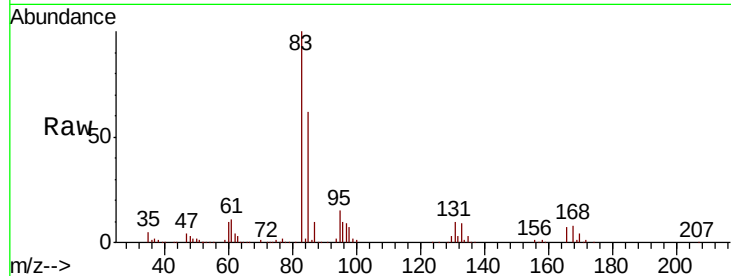
ClientSampleId :

VSTDCCC050EC

Tot Ion:	83	Resp:	114266
Ion Ratio	Lower	Upper	
83	100		
131	10.9	5.7	17.1
85	63.7	32.5	97.4

Manual Integrations
APPROVED

MMDadoda
10/24/2019 1:25:31 PM



#76

1,2,3-Trichloropropane

Concen: 78.634 ug/l m

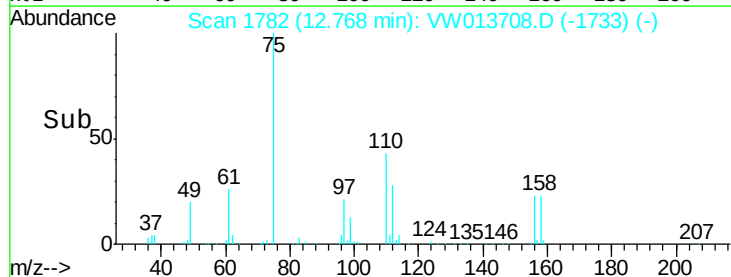
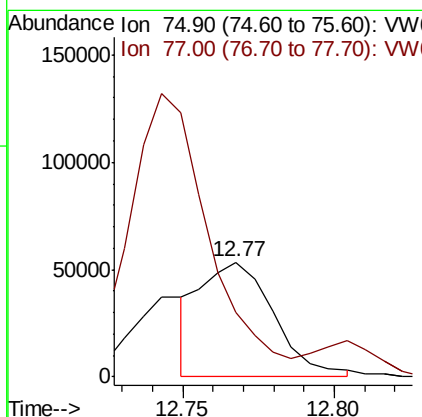
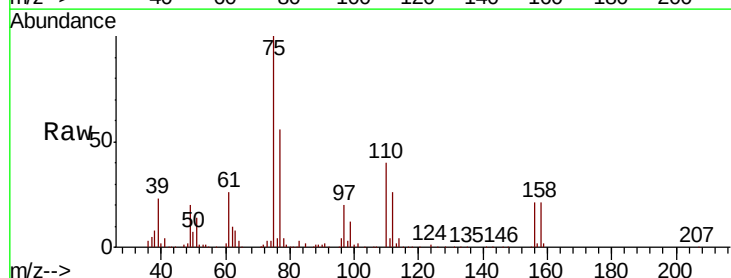
RT: 12.77 min Scan# 1782

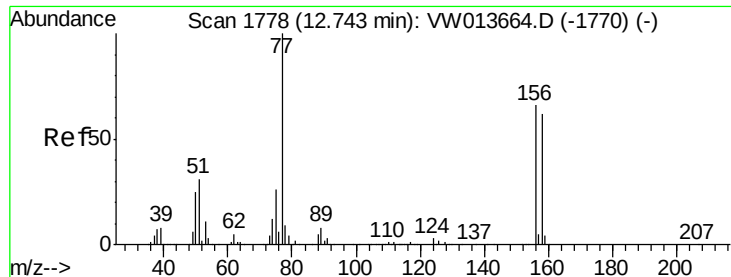
Delta R.T. -0.00 min

Lab File: VW013708.D

Acq: 24 Oct 2019 10:29

Tgt Ion:	75	Resp:	90154
Ion Ratio	Lower	Upper	
75	100		
77	0.0	0.0	0.0





#77

Bromobenzene

Concen: 51.413 ug/l

RT: 12.74 min Scan# 1778

Delta R.T. -0.00 min

Lab File: VW013708.D

Acq: 24 Oct 2019 10:29

Instrument :

MSVOA_W

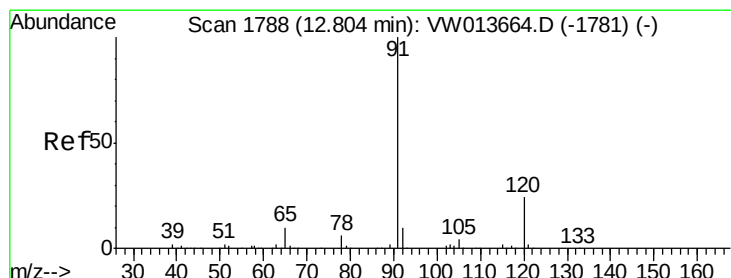
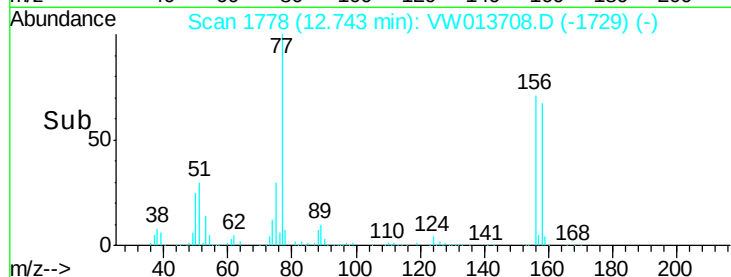
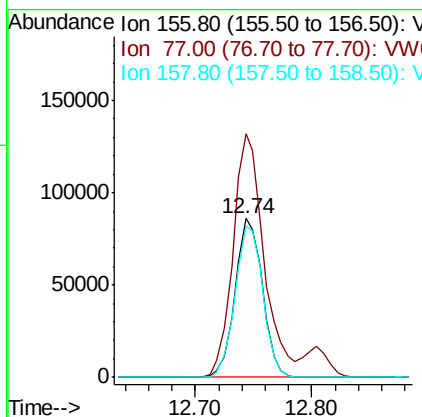
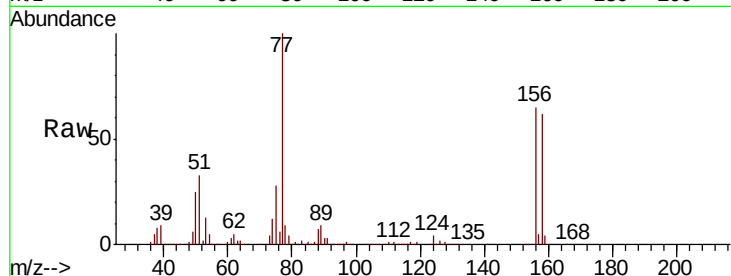
ClientSampleId :

VSTDCCC050EC

Tot Ion:	156	Resp:	140810
Ion Ratio	Lower	Upper	
156	100		
77	172.6	82.9	248.7
158	97.1	48.4	145.2

Manual Integrations
APPROVED

MMDadoda
10/24/2019 1:25:31 PM



#78

n-propylbenzene

Concen: 49.305 ug/l

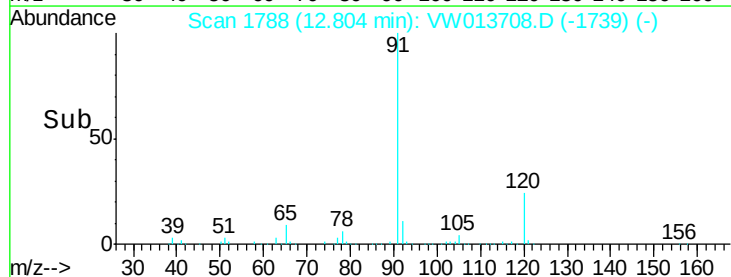
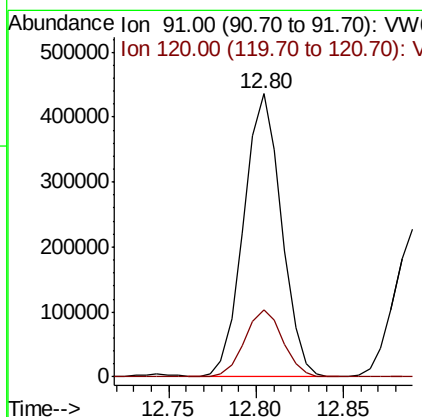
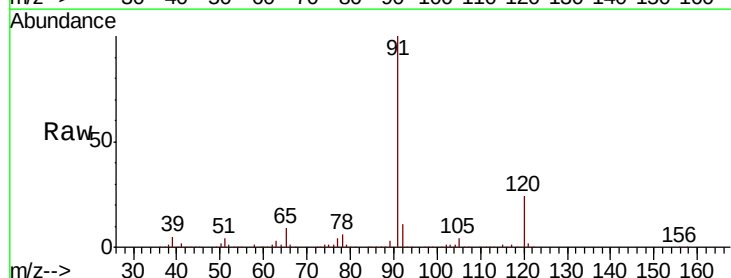
RT: 12.80 min Scan# 1788

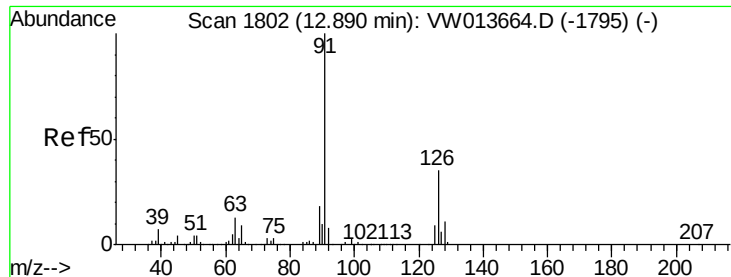
Delta R.T. -0.00 min

Lab File: VW013708.D

Acq: 24 Oct 2019 10:29

Tgt Ion:	91	Resp:	654270
Ion Ratio	Lower	Upper	
91	100		
120	23.8	12.0	36.0





#79

2-Chlorotoluene

Concen: 49.764 ug/l

RT: 12.89 min Scan# 1802

Delta R.T. -0.00 min

Lab File: VW013708.D

Acq: 24 Oct 2019 10:29

Instrument :

MSVOA_W

ClientSampleId :

VSTDCCC050EC

Tot Ion: 91 Resp: 371100

Ion Ratio Lower Upper

91 100

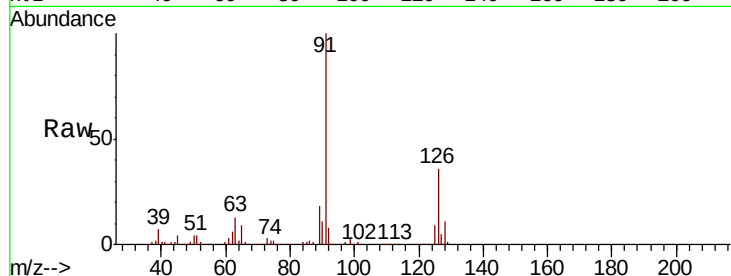
126 35.2 17.4 52.2

Manual Integrations

APPROVED

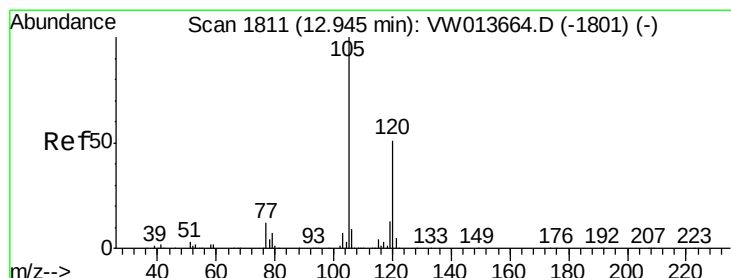
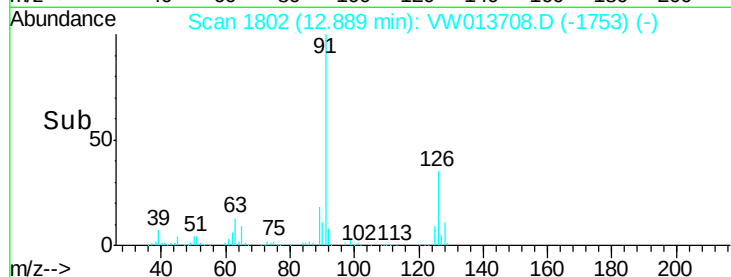
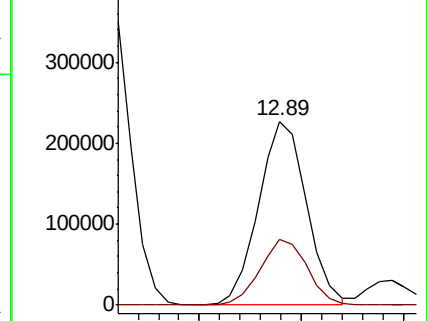
MMDadoda

10/24/2019 1:25:31 PM



Abundance Ion 91.00 (90.70 to 91.70): VW

Ion 125.90 (125.60 to 126.60): V



#80

1,3,5-Trimethylbenzene

Concen: 49.721 ug/l

RT: 12.94 min Scan# 1811

Delta R.T. -0.00 min

Lab File: VW013708.D

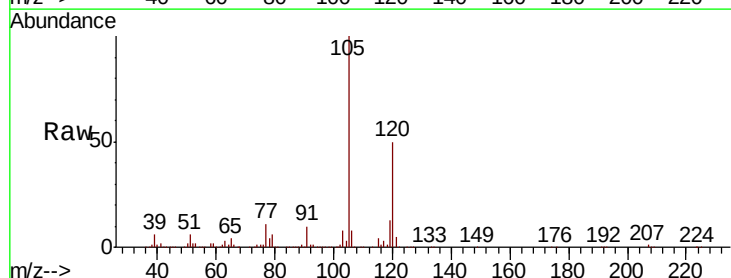
Acq: 24 Oct 2019 10:29

Tgt Ion: 105 Resp: 481207

Ion Ratio Lower Upper

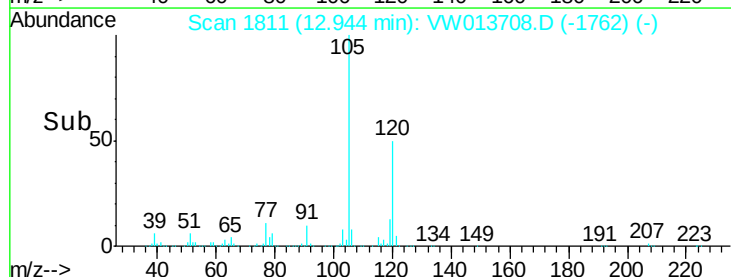
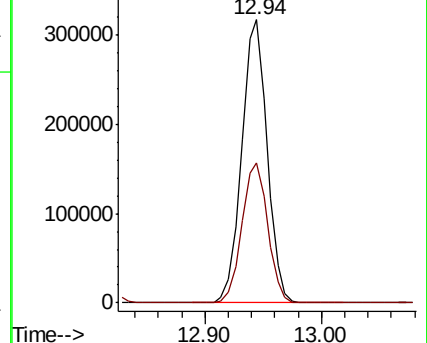
105 100

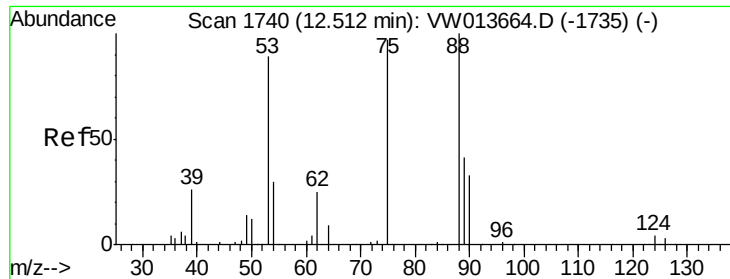
120 50.3 25.1 75.3



Abundance Ion 105.00 (104.70 to 105.70): V

Ion 120.00 (119.70 to 120.70): V





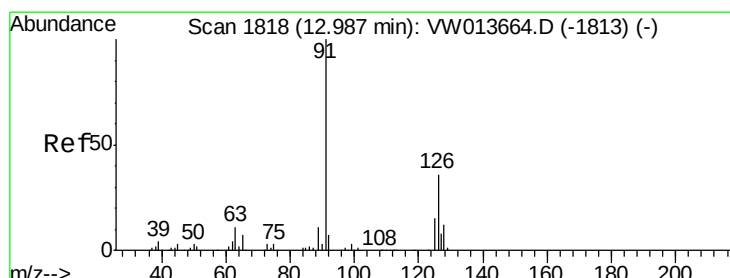
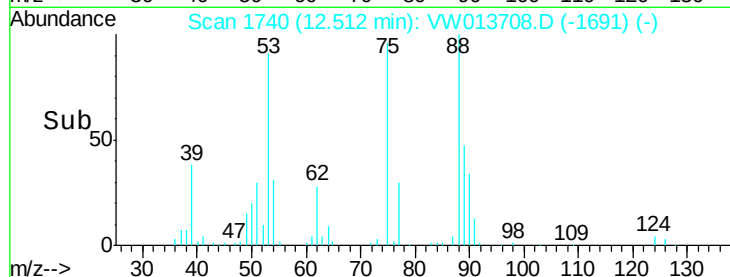
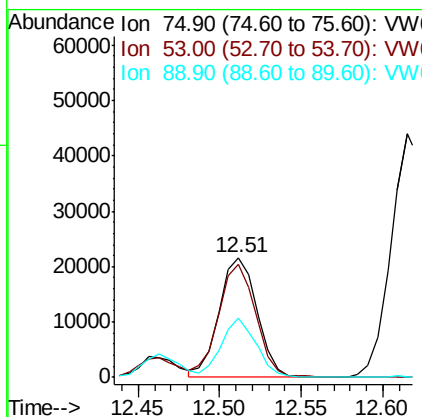
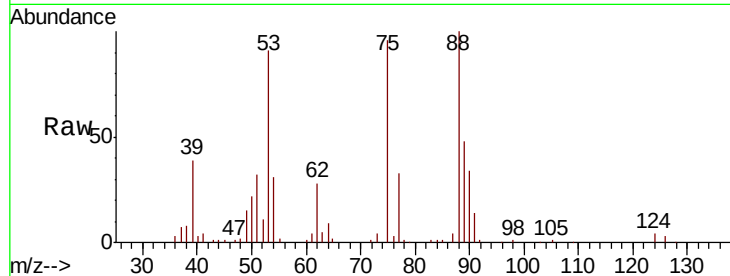
#81
trans-1,4-Dichloro-2-butene
Concen: 57.782 ug/l
RT: 12.51 min Scan# 1740
Delta R.T. -0.00 min
Lab File: VW013708.D
Acq: 24 Oct 2019 10:29

Instrument :
MSVOA_W
ClientSampleId :
VSTDCCC050EC

Tot Ion	Ratio	Lower	Upper
75	100		
53	92.7	71.7	107.5
89	45.4	35.8	53.8

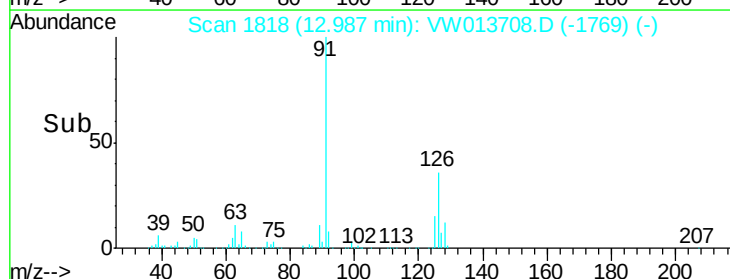
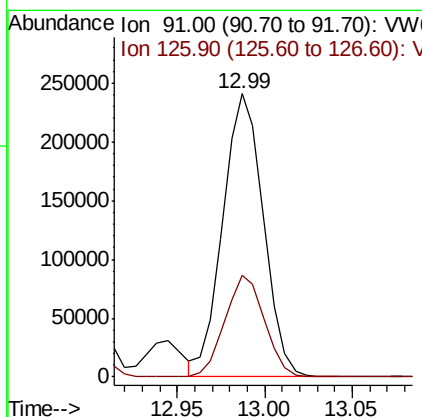
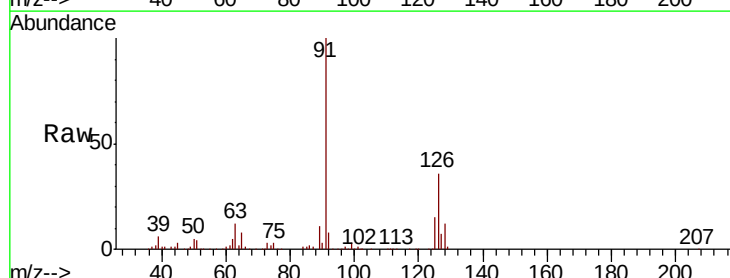
Manual Integrations
APPROVED

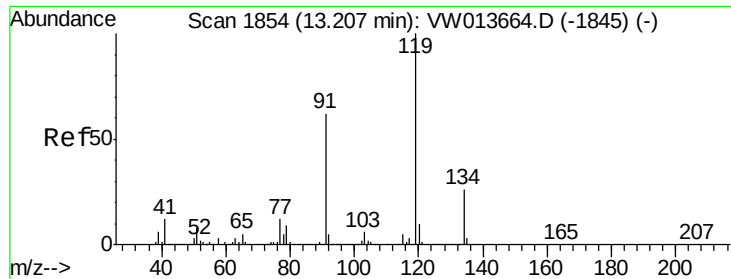
MMDadoda
10/24/2019 1:25:31 PM



#82
4-Chlorotoluene
Concen: 49.414 ug/l
RT: 12.99 min Scan# 1818
Delta R.T. -0.00 min
Lab File: VW013708.D
Acq: 24 Oct 2019 10:29

Tgt Ion	Ratio	Lower	Upper
91	100		
126	35.2	17.2	51.5





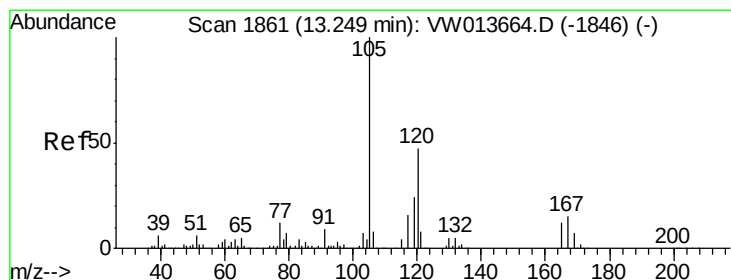
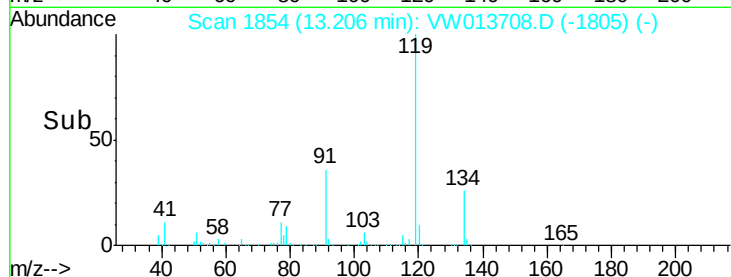
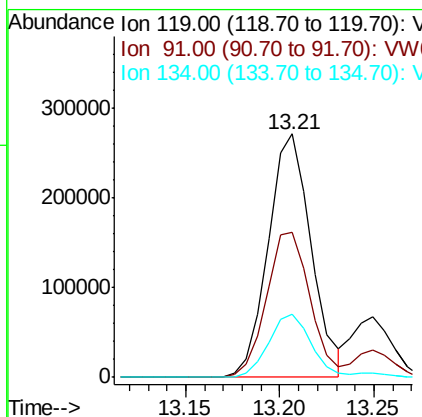
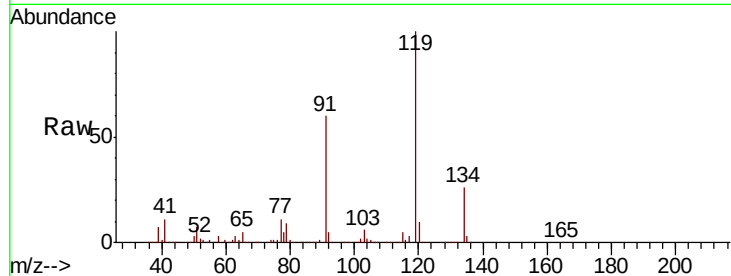
#83
tert-Butylbenzene
Concen: 49.918 ug/l
RT: 13.21 min Scan# 1854
Delta R.T. -0.00 min
Lab File: VW013708.D
Acq: 24 Oct 2019 10:29

Instrument :
MSVOA_W
ClientSampleId :
VSTDCCC050EC

Tot Ion	Ratio	Lower	Upper
119	100		
91	60.6	30.4	91.3
134	27.0	13.6	40.8

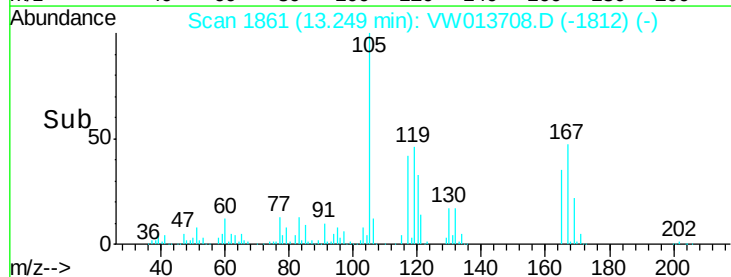
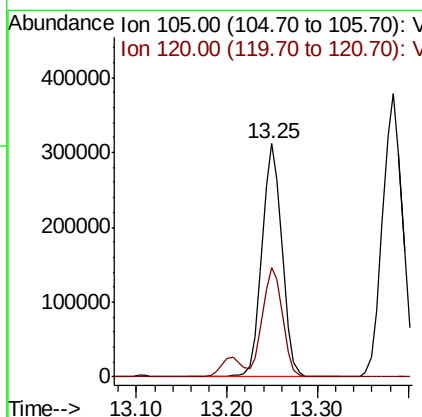
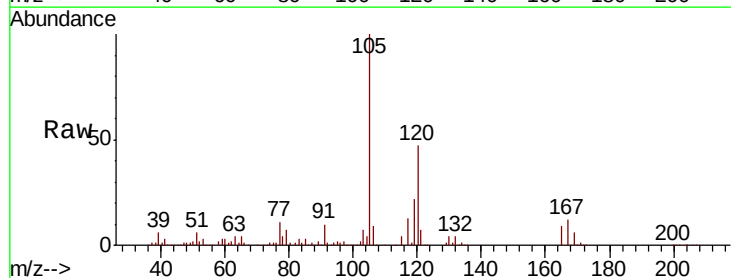
Manual Integrations
APPROVED

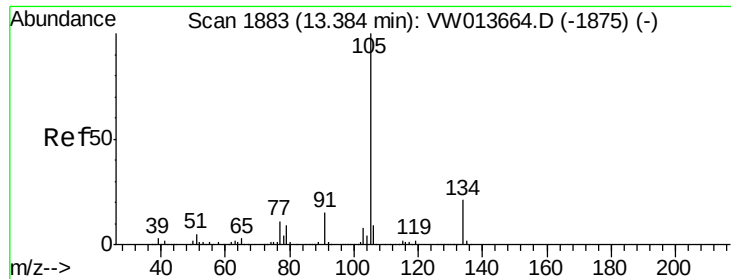
MMDadoda
10/24/2019 1:25:31 PM



#84
1,2,4-Trimethylbenzene
Concen: 49.922 ug/l
RT: 13.25 min Scan# 1861
Delta R.T. -0.00 min
Lab File: VW013708.D
Acq: 24 Oct 2019 10:29

Tgt Ion	Ratio	Lower	Upper
105	100		
120	46.3	23.5	70.5





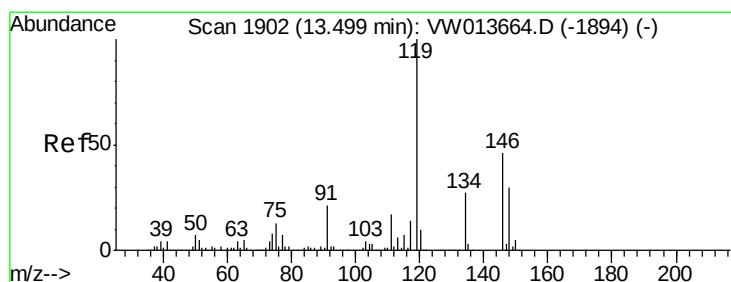
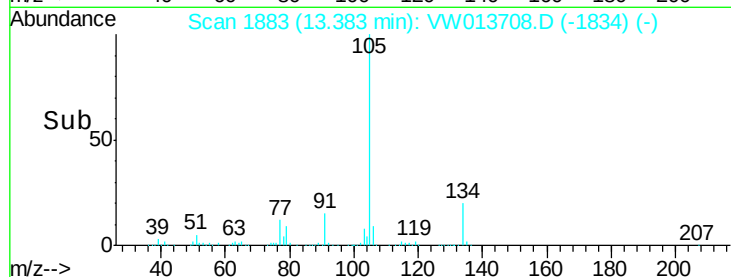
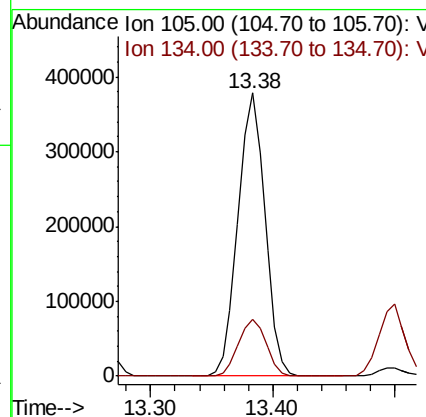
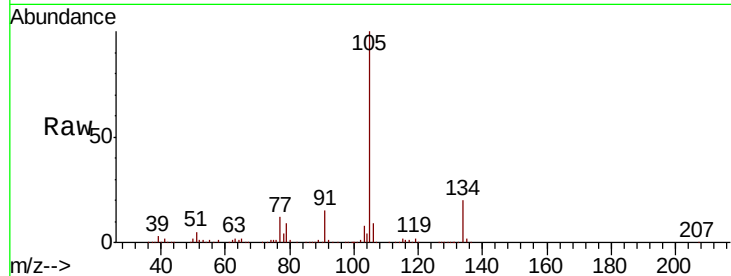
#85
 sec-Butylbenzene
 Concen: 49.265 ug/l
 RT: 13.38 min Scan# 1883
 Delta R.T. -0.00 min
 Lab File: VW013708.D
 Acq: 24 Oct 2019 10:29

Instrument :
 MSVOA_W
 ClientSampleId :
 VSTDCCC050EC

Tot Ion	Ratio	Lower	Upper
105	100		
134	20.7	10.5	31.5

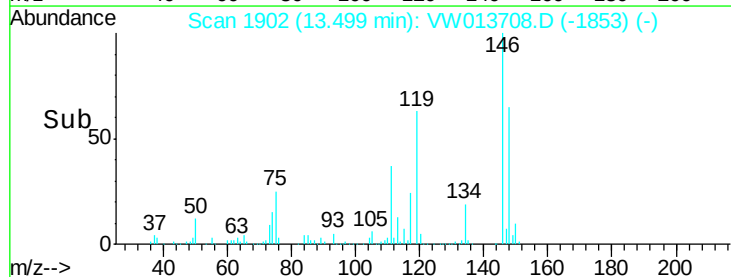
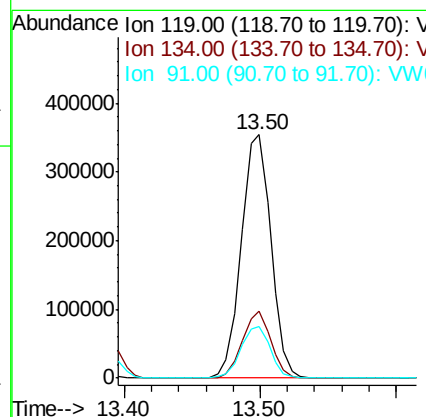
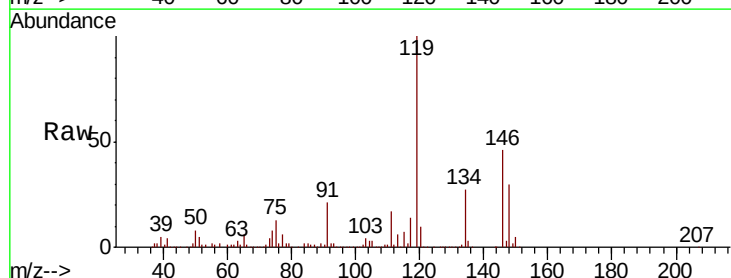
Manual Integrations
 APPROVED

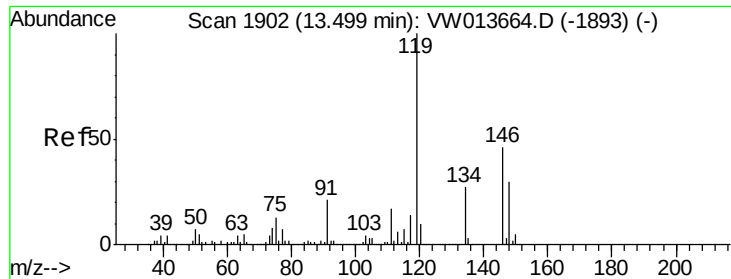
MMDadoda
 10/24/2019 1:25:31 PM



#86
 p-Isopropyltoluene
 Concen: 49.160 ug/l
 RT: 13.50 min Scan# 1902
 Delta R.T. -0.00 min
 Lab File: VW013708.D
 Acq: 24 Oct 2019 10:29

Tgt Ion	Ratio	Lower	Upper
119	100		
134	26.5	13.4	40.1
91	21.1	10.8	32.3





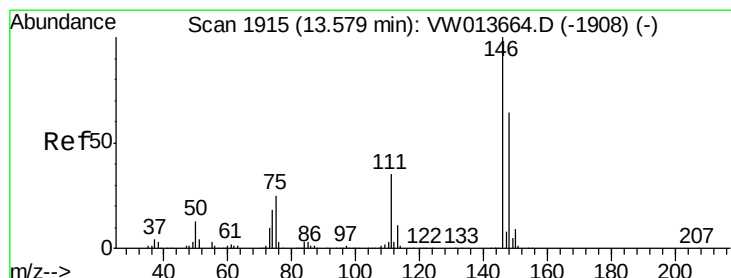
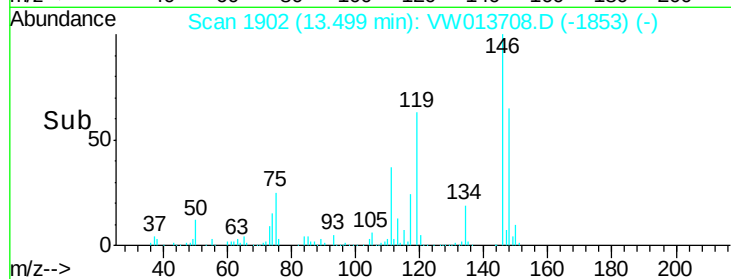
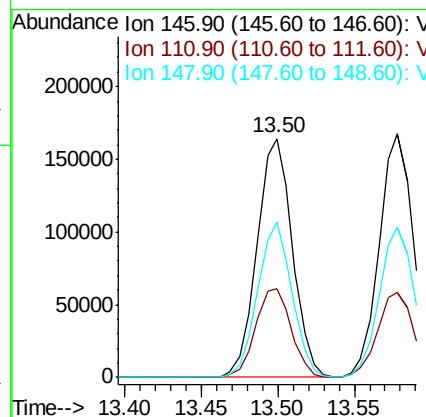
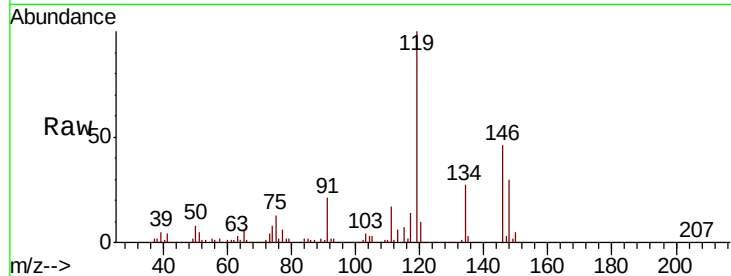
#87
 1,3-Dichlorobenzene
 Concen: 49.743 ug/l
 RT: 13.50 min Scan# 1902
 Delta R.T. -0.00 min
 Lab File: VW013708.D
 Acq: 24 Oct 2019 10:29

Instrument :
 MSVOA_W
 ClientSampleId :
 VSTDCCC050EC

Tot Ion	Ratio	Resp	Lower	Upper
146	100	263958		
111	37.7	18.6	56.0	
148	63.2	31.7	95.1	

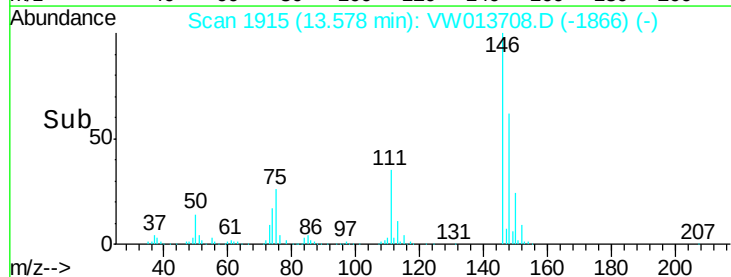
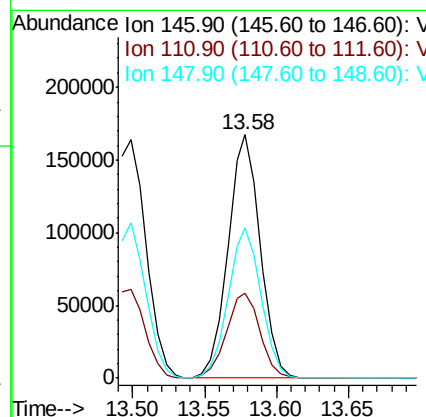
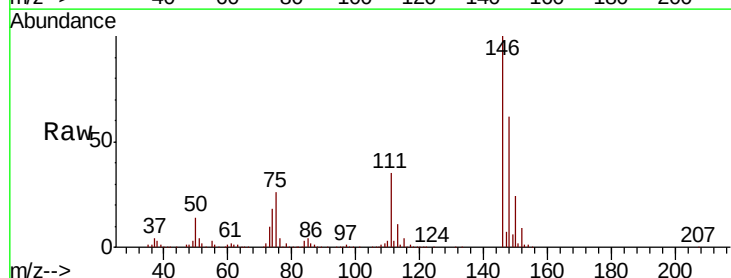
Manual Integrations
 APPROVED

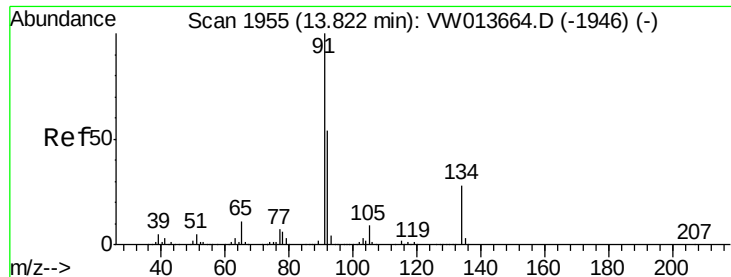
MMDadoda
 10/24/2019 1:25:31 PM



#88
 1,4-Dichlorobenzene
 Concen: 49.595 ug/l
 RT: 13.58 min Scan# 1915
 Delta R.T. -0.00 min
 Lab File: VW013708.D
 Acq: 24 Oct 2019 10:29

Tgt Ion	Ratio	Resp	Lower	Upper
146	100	261453		
111	36.5	18.1	54.3	
148	63.1	32.0	96.2	





#89

n-Butylbenzene

Concen: 47.359 ug/l

RT: 13.82 min Scan# 1955

Delta R.T. -0.00 min

Lab File: VW013708.D

Acq: 24 Oct 2019 10:29

Instrument :

MSVOA_W

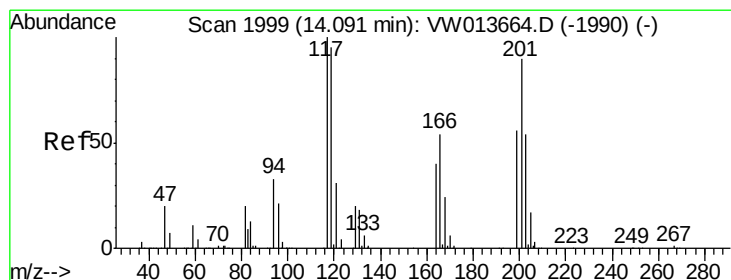
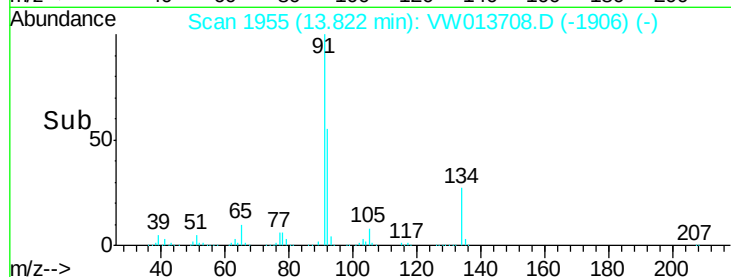
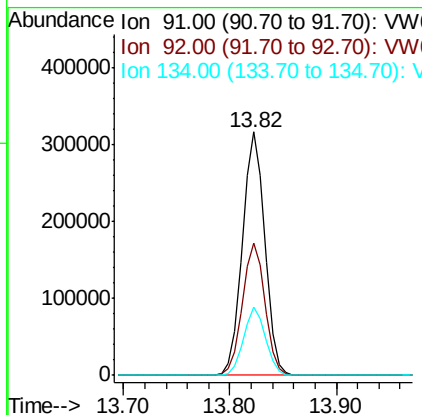
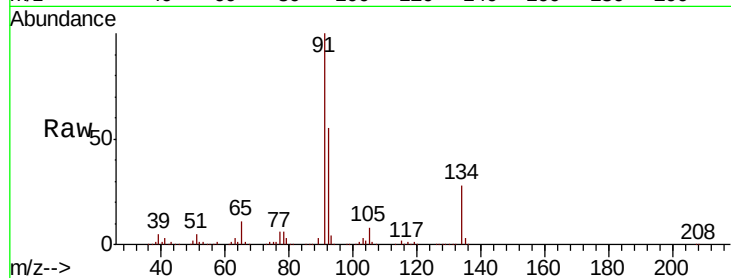
ClientSampleId :

VSTDCCC050EC

Tot Ion:	91	Resp:	467785
Ion Ratio	Lower	Upper	
91	100		
92	54.6	27.5	82.4
134	27.6	14.0	41.9

Manual Integrations
APPROVED

MMDadoda
10/24/2019 1:25:31 PM



#90

Hexachloroethane

Concen: 50.317 ug/l

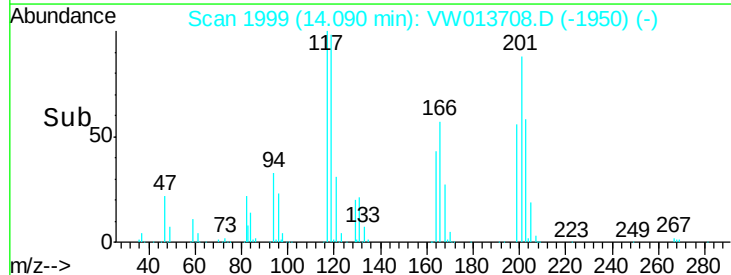
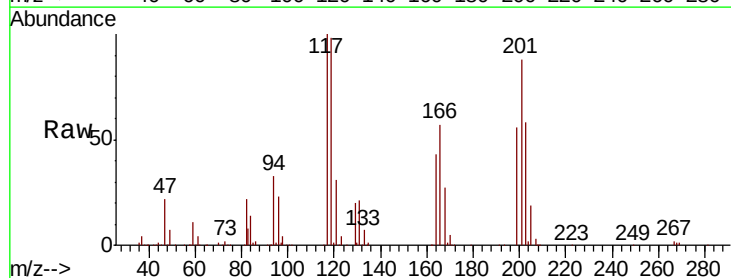
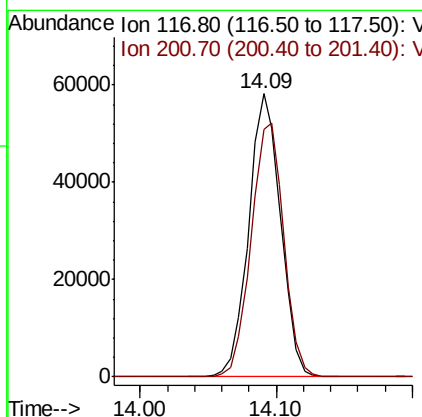
RT: 14.09 min Scan# 1999

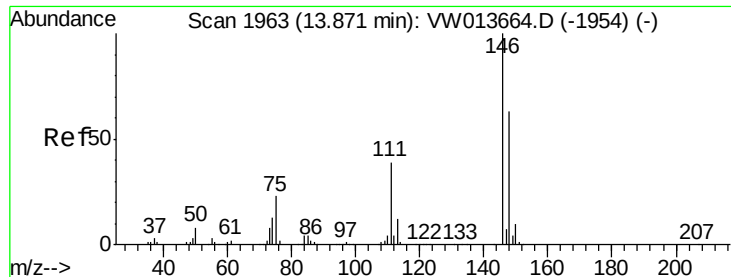
Delta R.T. -0.00 min

Lab File: VW013708.D

Acq: 24 Oct 2019 10:29

Tgt Ion:	117	Resp:	95708
Ion Ratio	Lower	Upper	
117	100		
201	91.6	46.1	138.2





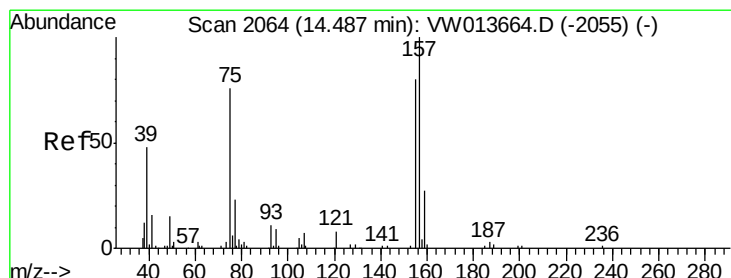
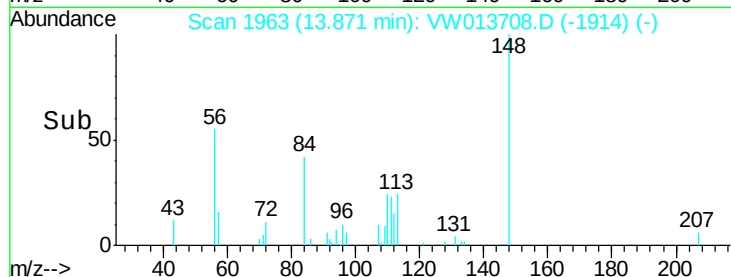
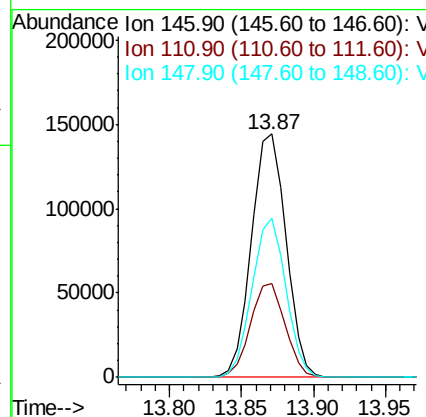
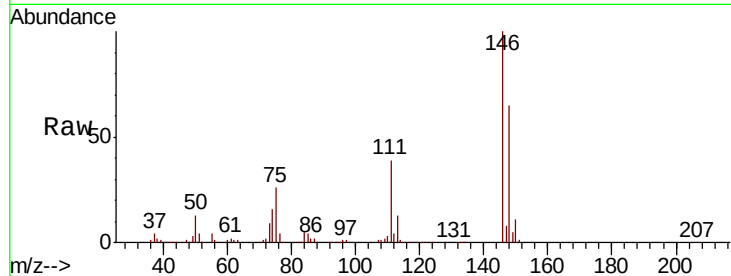
#91
 1,2-Dichlorobenzene
 Concen: 52.181 ug/l
 RT: 13.87 min Scan# 1963
 Delta R.T. -0.00 min
 Lab File: VW013708.D
 Acq: 24 Oct 2019 10:29

Instrument :
 MSVOA_W
 ClientSampleId :
 VSTDCCC050EC

Tot Ion	Ratio	Lower	Upper
146	100		
111	38.6	19.9	59.6
148	64.0	31.9	95.9

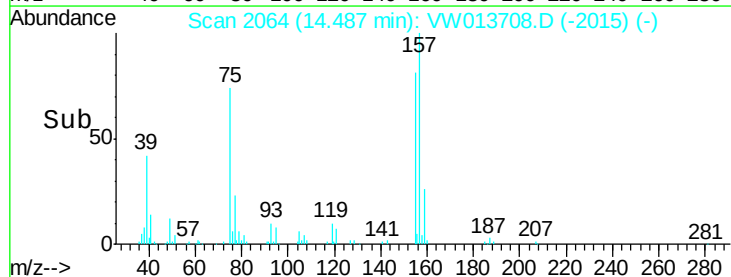
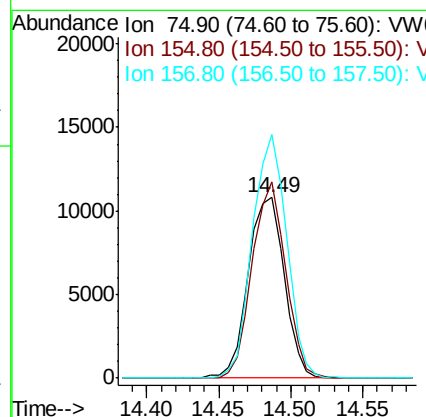
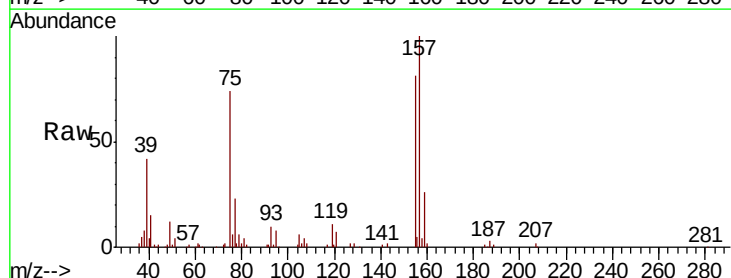
Manual Integrations
 APPROVED

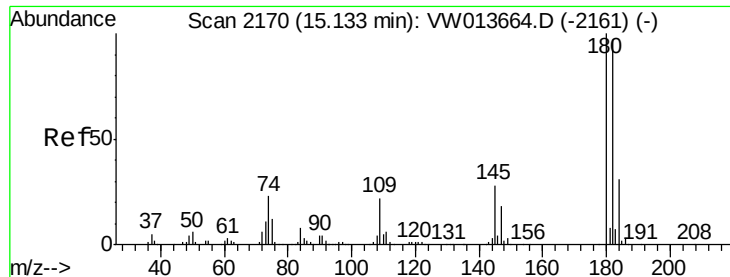
MMDadoda
 10/24/2019 1:25:31 PM



#92
 1,2-Dibromo-3-Chloropropane
 Concen: 68.667 ug/l
 RT: 14.49 min Scan# 2064
 Delta R.T. -0.00 min
 Lab File: VW013708.D
 Acq: 24 Oct 2019 10:29

Tgt Ion	Ratio	Lower	Upper
75	100		
155	100.2	51.9	155.7
157	127.6	64.8	194.3





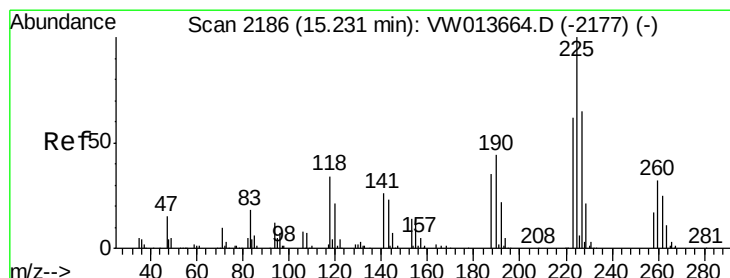
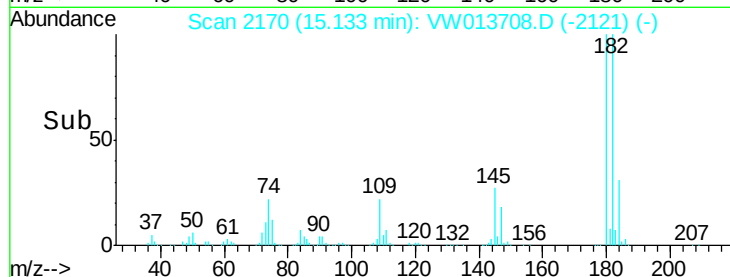
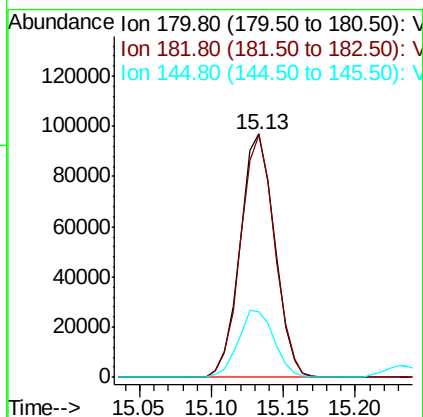
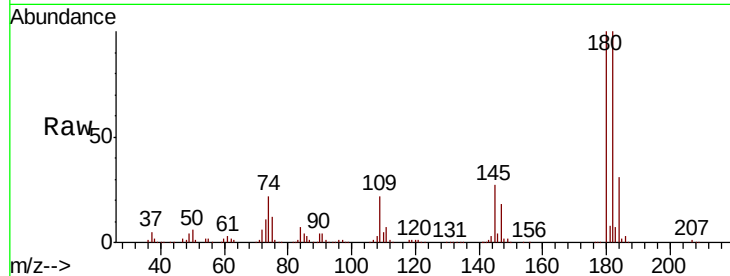
#93
1,2,4-Trichlorobenzene
Concen: 48.121 ug/l
RT: 15.13 min Scan# 2170
Delta R.T. -0.00 min
Lab File: VW013708.D
Acq: 24 Oct 2019 10:29

Instrument :
MSVOA_W
ClientSampleId :
VSTDCCC050EC

Tot Ion	Ratio	Resp	Lower	Upper
180	100	161132		
182	98.6	47.4	142.2	
145	28.4	14.1	42.3	

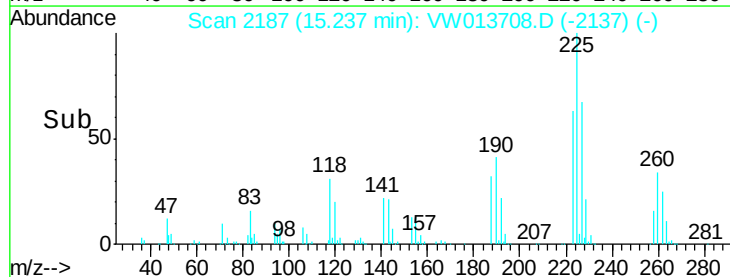
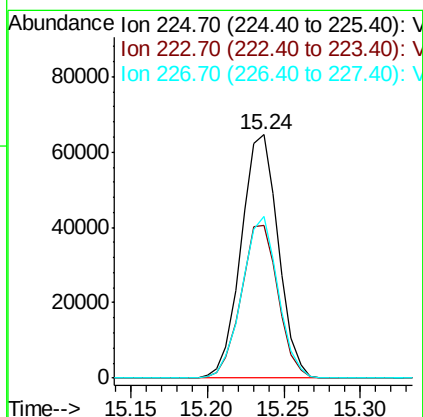
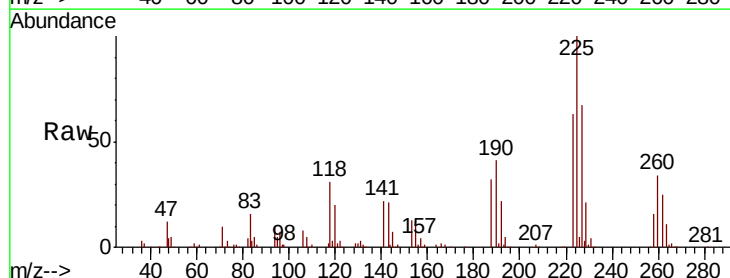
Manual Integrations
APPROVED

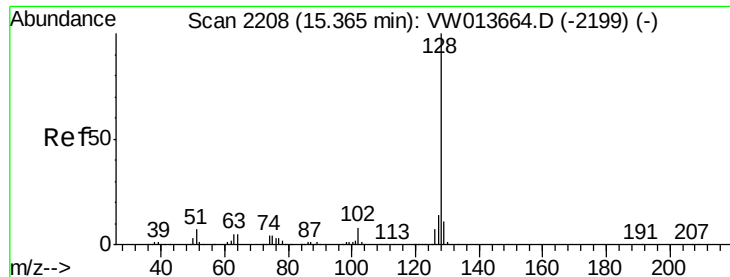
MMDadoda
10/24/2019 1:25:31 PM



#94
Hexachlorobutadiene
Concen: 48.160 ug/l
RT: 15.24 min Scan# 2187
Delta R.T. 0.01 min
Lab File: VW013708.D
Acq: 24 Oct 2019 10:29

Tgt Ion	Ratio	Resp	Lower	Upper
225	100	108867		
223	62.8	31.9	95.9	
227	64.4	32.5	97.4	





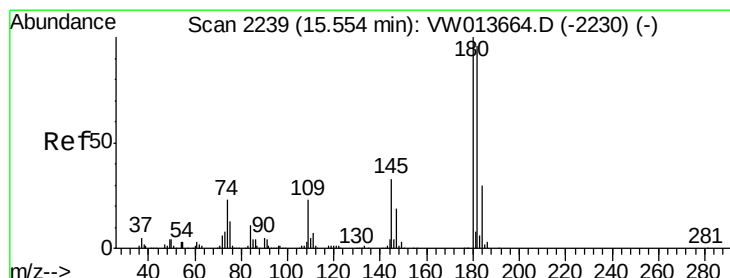
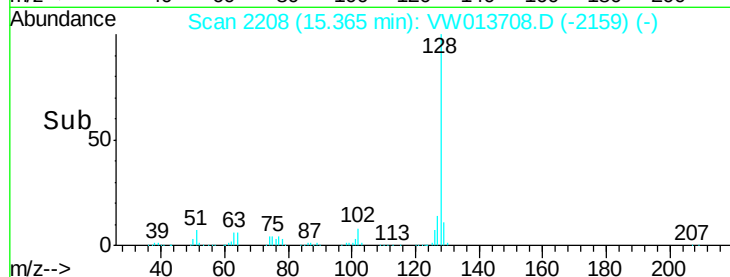
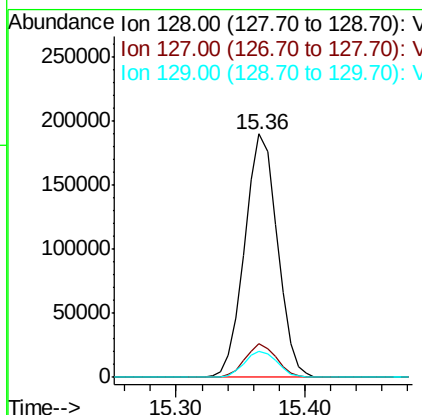
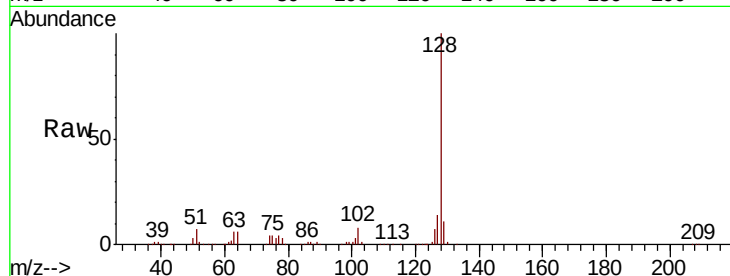
#95
Naphthalene
Concen: 63.432 ug/l
RT: 15.36 min Scan# 2208
Delta R.T. -0.00 min
Lab File: VW013708.D
Acq: 24 Oct 2019 10:29

Instrument :
MSVOA_W
ClientSampleId :
VSTDCCC050EC

Tot Ion	Ratio	Lower	Upper
128	100		
127	13.2	10.6	15.8
129	10.8	8.7	13.1

Manual Integrations
APPROVED

MMDadoda
10/24/2019 1:25:31 PM



#96
1,2,3-Trichlorobenzene
Concen: 52.820 ug/l
RT: 15.55 min Scan# 2239
Delta R.T. -0.00 min
Lab File: VW013708.D
Acq: 24 Oct 2019 10:29

Tgt Ion	Ratio	Lower	Upper
180	100		
182	96.1	47.4	142.3
145	29.8	14.9	44.9

