

Data Path : Z:\VOASRV\HPCHEM1\MSVOA W\DATA\VW093019\
 Data File : VW013346.D
 Acq On : 30 Sep 2019 21:46
 Operator : SY/VA
 Sample : VSTDCCC050
 Misc : 5.00G/5ML/MSVOA W/SOIL
 ALS Vial : 25 Sample Multiplier: 1

Instrument :
 MSVOA_W
 ClientSampleId :
 VSTDCCC050

Manual Integrations
 APPROVED

MMDadoda
 10/1/2019 11:33:06 AM

Quant Time: Oct 01 06:00:45 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_W\METHOD\82W092019S.M
 Quant Title : SW846 8260
 QLast Update : Fri Sep 20 15:58:08 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	7.95	168	297336	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	8.84	114	426065	50.00	ug/l	0.00
63) Chlorobenzene-d5	11.63	117	370935	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.56	152	191601	50.00	ug/l	0.00

System Monitoring Compounds

33) 1,2-Dichloroethane-d4	8.31	65	118697	48.91	ug/l	0.00
Spiked Amount	50.000		Recovery	=	97.82%	
35) Dibromofluoromethane	7.88	113	118114	50.40	ug/l	0.00
Spiked Amount	50.000		Recovery	=	100.80%	
50) Toluene-d8	10.32	98	492161	50.18	ug/l	0.00
Spiked Amount	50.000		Recovery	=	100.36%	
62) 4-Bromofluorobenzene	12.62	95	170329	50.84	ug/l	0.00
Spiked Amount	50.000		Recovery	=	101.68%	

Target Compounds

						Qvalue
2) Dichlorodifluoromethane	2.01	85	71792	41.858	ug/l	94
3) Chloromethane	2.21	50	95281	43.216	ug/l	99
4) Vinyl Chloride	2.36	62	132264	46.533	ug/l	98
5) Bromomethane	2.77	94	85716	47.586	ug/l	94
6) Chloroethane	2.92	64	79552	47.481	ug/l	93
7) Trichlorofluoromethane	3.25	101	74630	45.534	ug/l	92
8) Diethyl Ether	3.68	74	69603	49.718	ug/l	97
9) 1,1,2-Trichlorotrifluoroet	4.07	101	133373	49.982	ug/l	99
10) Methyl Iodide	4.27	142	205855	49.758	ug/l	99
11) Tert butyl alcohol	5.16	59	52711	303.923	ug/l	99
12) 1,1-Dichloroethene	4.04	96	134144	48.547	ug/l	98
13) Acrolein	3.89	56	24877	178.083	ug/l	98
14) Allyl chloride	4.67	41	210709	47.914	ug/l	100
15) Acrylonitrile	5.36	53	164213	271.763	ug/l	98
16) Acetone	4.12	43	137343	250.971	ug/l	94
17) Carbon Disulfide	4.39	76	384825	48.184	ug/l	98
18) Methyl Acetate	4.67	43	84607	55.000	ug/l	100
19) Methyl tert-butyl Ether	5.42	73	221728	52.357	ug/l	100
20) Methylene Chloride	4.92	84	140142	50.077	ug/l	96
21) trans-1,2-Dichloroethene	5.42	96	148082	49.584	ug/l	99
22) Diisopropyl ether	6.31	45	415400	49.674	ug/l	99
23) Vinyl Acetate	6.25	43	1268882	255.768	ug/l	98
24) 1,1-Dichloroethane	6.21	63	245894	48.729	ug/l	97
25) 2-Butanone	7.17	43	217310	264.526	ug/l	98
26) 2,2-Dichloropropane	7.17	77	150196	49.728	ug/l	100
27) cis-1,2-Dichloroethene	7.17	96	157090	49.842	ug/l	98
28) Bromochloromethane	7.51	49	99753	51.506	ug/l	95
29) Tetrahydrofuran	7.52	42	138062	274.039	ug/l	97
30) Chloroform	7.67	83	239771	48.533	ug/l	100
31) Cyclohexane	7.95	56	242800	46.159	ug/l	99
32) 1,1,1-Trichloroethane	7.87	97	198499	49.608	ug/l	99
36) 1,1-Dichloropropene	8.08	75	202193	48.996	ug/l	99
37) Ethyl Acetate	7.24	43	94379	53.812	ug/l	98
38) Carbon Tetrachloride	8.07	117	185668	50.189	ug/l	90

Data Path : Z:\VOASRV\HPCHEM1\MSVOA W\DATA\VW093019\
 Data File : VW013346.D
 Acq On : 30 Sep 2019 21:46
 Operator : SY/VA
 Sample : VSTDCCC050
 Misc : 5.00G/5ML/MSVOA W/SOIL
 ALS Vial : 25 Sample Multiplier: 1

Instrument :
 MSVOA_W
 ClientSampleId :
 VSTDCCC050

Manual Integrations
 APPROVED

MMDadoda
 10/1/2019 11:33:06 AM

Quant Time: Oct 01 06:00:45 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_W\METHOD\82W092019S.M
 Quant Title : SW846 8260
 QLast Update : Fri Sep 20 15:58:08 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
39) Methylcyclohexane	9.34	83	262074	49.417	ug/l	99
40) Benzene	8.32	78	572133	49.704	ug/l	100
41) Methacrylonitrile	7.48	41	58459	55.847	ug/l	99
42) 1,2-Dichloroethane	8.40	62	151407	48.931	ug/l	98
43) Isopropyl Acetate	8.42	43	179069	53.271	ug/l	99
44) Trichloroethene	9.09	130	163195	50.532	ug/l	96
45) 1,2-Dichloropropane	9.37	63	141509	50.355	ug/l	96
46) Dibromomethane	9.46	93	71960	52.742	ug/l	99
47) Bromodichloromethane	9.64	83	174096	50.147	ug/l	97
48) Methyl methacrylate	9.43	41	84101	53.207	ug/l	98
49) 1,4-Dioxane	9.45	88	26542	1295.992	ug/l #	87
51) 4-Methyl-2-Pentanone	10.21	43	466097	276.588	ug/l	98
52) Toluene	10.38	92	375235	50.865	ug/l	100
53) t-1,3-Dichloropropene	10.60	75	183878	51.553	ug/l	99
54) cis-1,3-Dichloropropene	10.07	75	219901	50.706	ug/l	98
55) 1,1,2-Trichloroethane	10.79	97	106610	52.278	ug/l	98
56) Ethyl methacrylate	10.65	69	145692	54.589	ug/l	99
57) 1,3-Dichloropropane	10.93	76	184456	51.833	ug/l	99
58) 2-Chloroethyl Vinyl ether	9.92	63	328428	265.816	ug/l	98
59) 2-Hexanone	10.97	43	321428	277.239	ug/l	99
60) Dibromochloromethane	11.13	129	126044	54.433	ug/l	99
61) 1,2-Dibromoethane	11.23	107	102402	52.813	ug/l	99
64) Tetrachloroethene	10.86	164	145553	51.717	ug/l	99
65) Chlorobenzene	11.66	112	385681	49.792	ug/l	98
66) 1,1,1,2-Tetrachloroethane	11.73	131	136475	51.573	ug/l	99
67) Ethyl Benzene	11.73	91	711406	50.689	ug/l	98
68) m/p-Xylenes	11.84	106	545219	101.947	ug/l	99
69) o-Xylene	12.16	106	253685	51.020	ug/l	98
70) Styrene	12.18	104	441292	51.696	ug/l	99
71) Bromoform	12.35	173	77440	55.393	ug/l #	100
73) Isopropylbenzene	12.46	105	709382	50.120	ug/l	100
74) N-amyl acetate	12.27	43	165155	52.585	ug/l	98
75) 1,1,2,2-Tetrachloroethane	12.71	83	125865	53.173	ug/l	100
76) 1,2,3-Trichloropropane	12.77	75	78568m	46.433	ug/l	
77) Bromobenzene	12.74	156	168090	50.116	ug/l	98
78) n-propylbenzene	12.80	91	829074	50.042	ug/l	100
79) 2-Chlorotoluene	12.89	91	461198	49.689	ug/l	99
80) 1,3,5-Trimethylbenzene	12.94	105	599482	50.386	ug/l	100
81) trans-1,4-Dichloro-2-buten	12.51	75	42053	55.767	ug/l	94
82) 4-Chlorotoluene	12.99	91	483776	49.426	ug/l	99
83) tert-Butylbenzene	13.21	119	530188	50.771	ug/l	98
84) 1,2,4-Trimethylbenzene	13.25	105	591362	49.949	ug/l	99
85) sec-Butylbenzene	13.38	105	729963	50.702	ug/l	100
86) p-Isopropyltoluene	13.50	119	686853	51.436	ug/l	99
87) 1,3-Dichlorobenzene	13.50	146	324660	50.295	ug/l	99
88) 1,4-Dichlorobenzene	13.58	146	323061	51.030	ug/l	99
89) n-Butylbenzene	13.82	91	615759	50.500	ug/l	99
90) Hexachloroethane	14.09	117	115001	51.265	ug/l	96
91) 1,2-Dichlorobenzene	13.87	146	289448	51.831	ug/l	99
92) 1,2-Dibromo-3-Chloropropan	14.48	75	20236	55.891	ug/l	93

Data Path : Z:\VOASRV\HPCHEM1\MSVOA W\DATA\VW093019\
Data File : VW013346.D
Acq On : 30 Sep 2019 21:46
Operator : SY/VA
Sample : VSTDCCC050
Misc : 5.00G/5ML/MSVOA W/SOIL
ALS Vial : 25 Sample Multiplier: 1

Instrument :
MSVOA_W
ClientSampleId :
VSTDCCC050

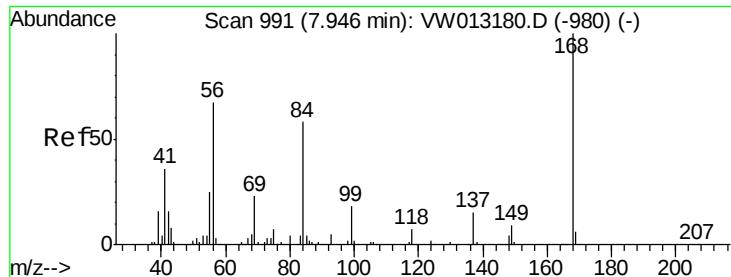
Manual Integrations
APPROVED

MMDadoda
10/1/2019 11:33:06 AM

Quant Time: Oct 01 06:00:45 2019
Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_W\METHOD\82W092019S.M
Quant Title : SW846 8260
QLast Update : Fri Sep 20 15:58:08 2019
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
93) 1,2,4-Trichlorobenzene	15.13	180	213939	53.462	ug/l	99
94) Hexachlorobutadiene	15.24	225	142518	52.057	ug/l	99
95) Naphthalene	15.36	128	381278	58.256	ug/l	99
96) 1,2,3-Trichlorobenzene	15.55	180	190160	54.995	ug/l	100

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



#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 7.95 min Scan# 991

Delta R.T. -0.00 min

Lab File: VW013346.D

Acq: 30 Sep 2019 21:46

Instrument :

MSVOA_W

ClientSampleId :

VSTDCCC050

Tot Ion:168 Resp: 297336

Ion Ratio Lower Upper

168 100

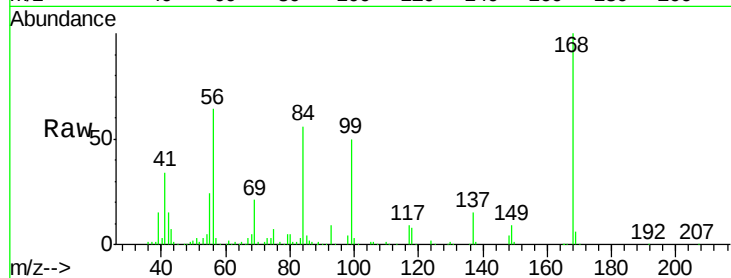
99 50.2 40.2 60.4

Manual Integrations

APPROVED

MMDadoda

10/1/2019 11:33:06 AM



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VW

7.95

150000

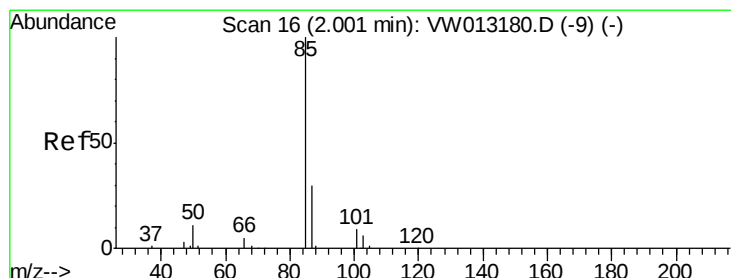
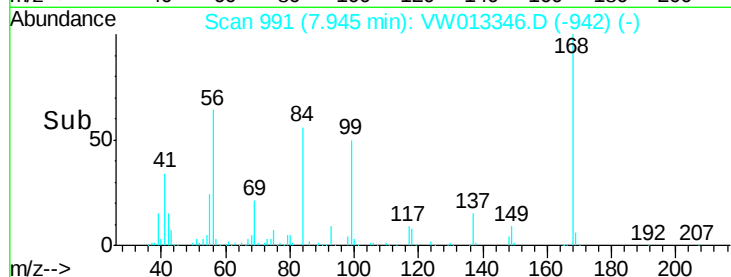
100000

50000

0

7.90 8.00

Time-->



#2

Dichlorodifluoromethane

Concen: 41.858 ug/l

RT: 2.01 min Scan# 17

Delta R.T. 0.01 min

Lab File: VW013346.D

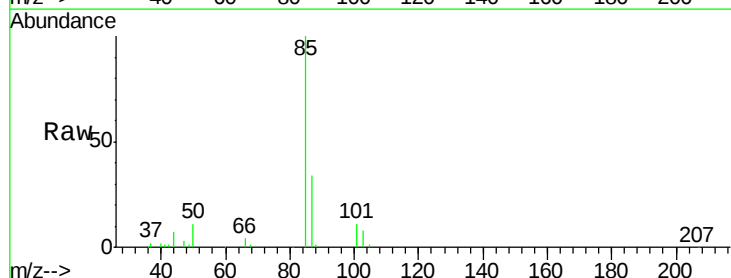
Acq: 30 Sep 2019 21:46

Tgt Ion: 85 Resp: 71792

Ion Ratio Lower Upper

85 100

87 33.7 15.1 45.3



Abundance Ion 84.90 (84.60 to 85.60): VW

Ion 86.90 (86.60 to 87.60): VW

30000

25000

20000

15000

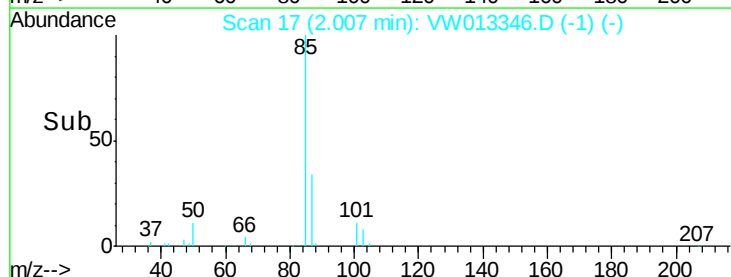
10000

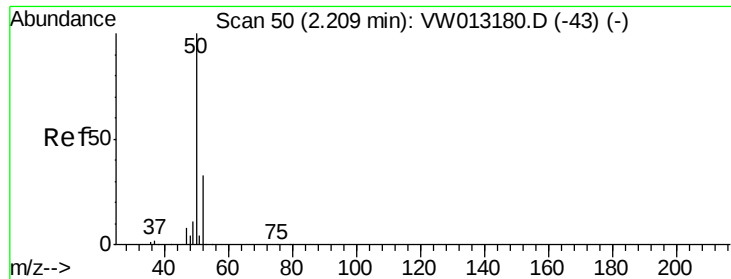
5000

0

1.90 2.00 2.10

Time-->





#3

Chloromethane

Concen: 43.216 ug/l

RT: 2.21 min Scan# 50

Delta R.T. -0.00 min

Lab File: VW013346.D

Acq: 30 Sep 2019 21:46

Instrument :

MSVOA_W

ClientSampleId :

VSTDCCC050

Tot Ion: 50 Resp: 95281

Ion Ratio Lower Upper

50 100

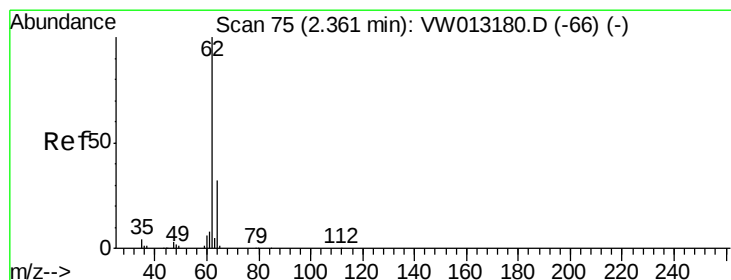
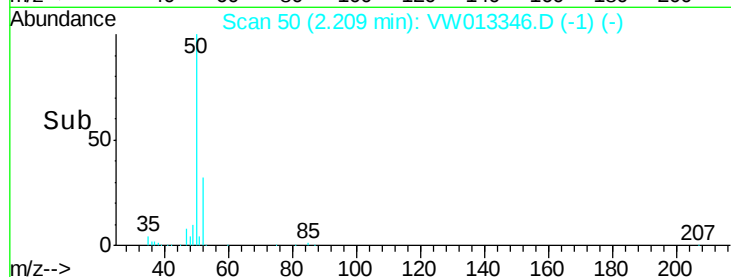
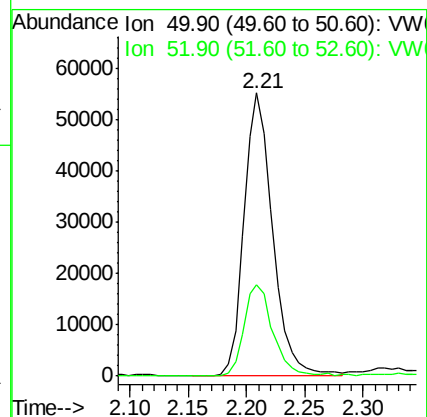
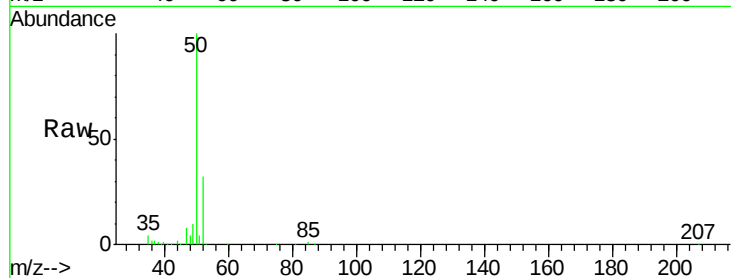
52 32.2 26.1 39.1

Manual Integrations

APPROVED

MMDadoda

10/1/2019 11:33:06 AM



#4

Vinyl Chloride

Concen: 46.533 ug/l

RT: 2.36 min Scan# 75

Delta R.T. -0.00 min

Lab File: VW013346.D

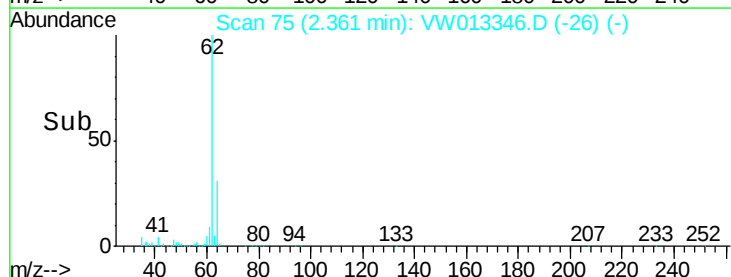
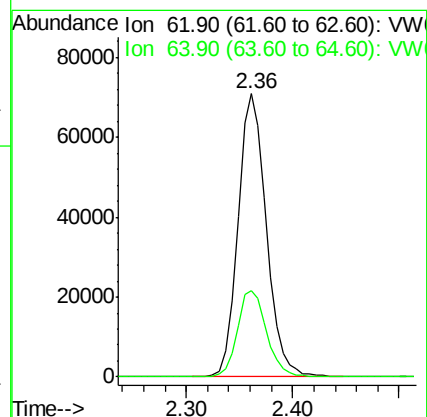
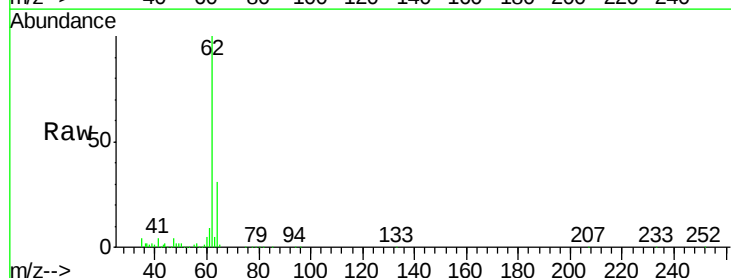
Acq: 30 Sep 2019 21:46

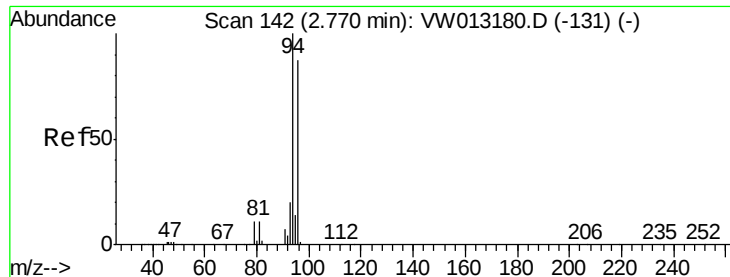
Tgt Ion: 62 Resp: 132264

Ion Ratio Lower Upper

62 100

64 30.5 25.3 37.9





#5

Bromomethane

Concen: 47.586 ug/l

RT: 2.77 min Scan# 142

Delta R.T. -0.00 min

Lab File: VW013346.D

Acq: 30 Sep 2019 21:46

Instrument :

MSVOA_W

ClientSampleId :

VSTDCCC050

Tot Ion: 94 Resp: 85716

Ion Ratio Lower Upper

94 100

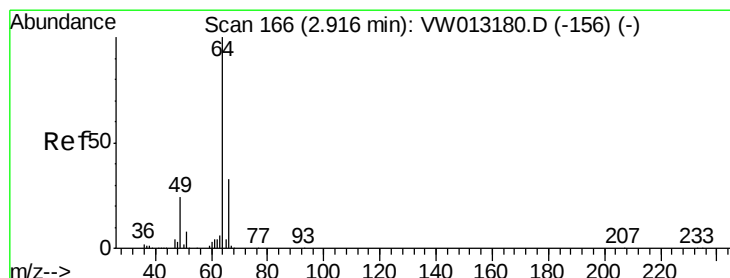
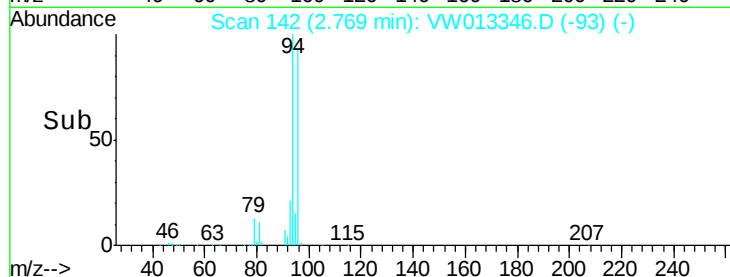
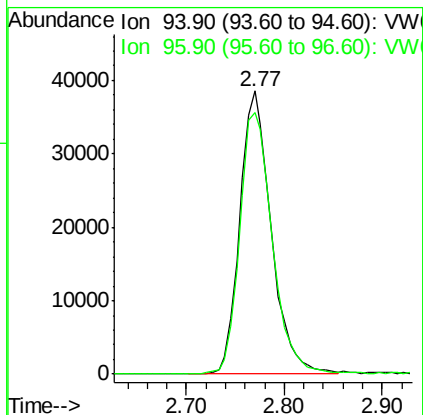
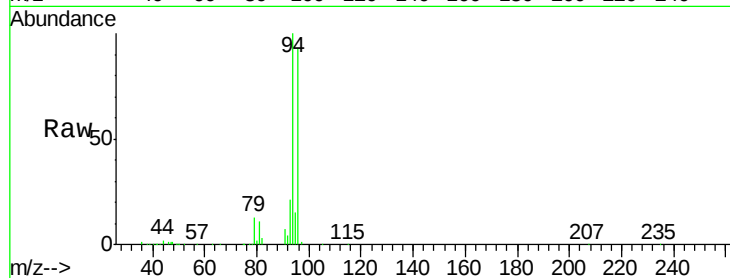
96 92.6 69.7 104.5

Manual Integrations

APPROVED

MMDadoda

10/1/2019 11:33:06 AM



#6

Chloroethane

Concen: 47.481 ug/l

RT: 2.92 min Scan# 166

Delta R.T. -0.00 min

Lab File: VW013346.D

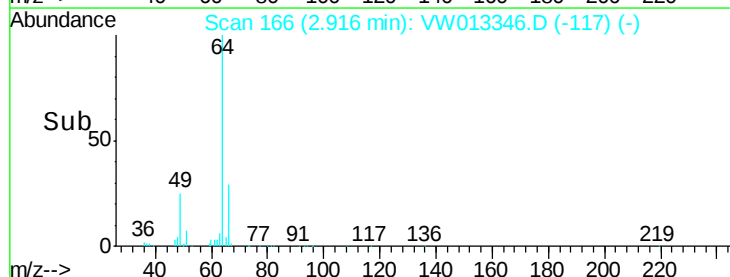
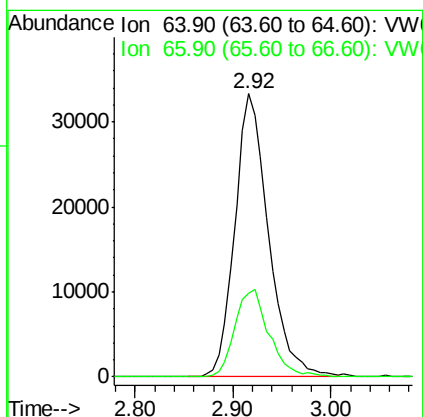
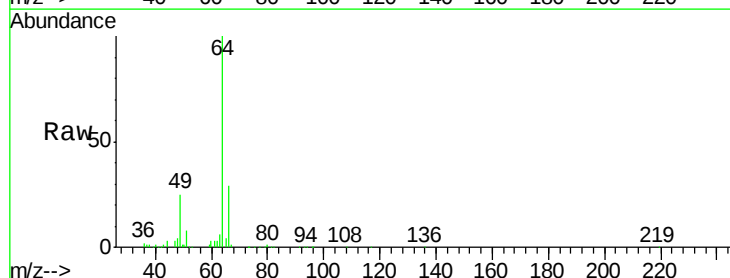
Acq: 30 Sep 2019 21:46

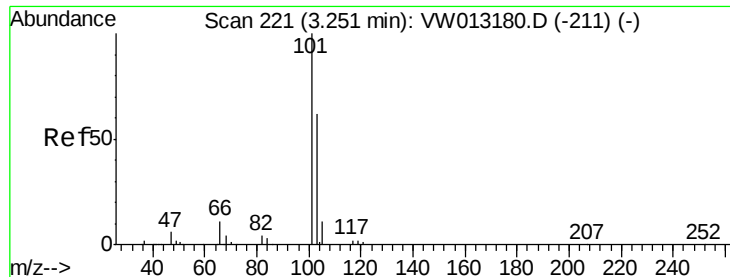
Tgt Ion: 64 Resp: 79552

Ion Ratio Lower Upper

64 100

66 29.4 26.6 39.8





#7

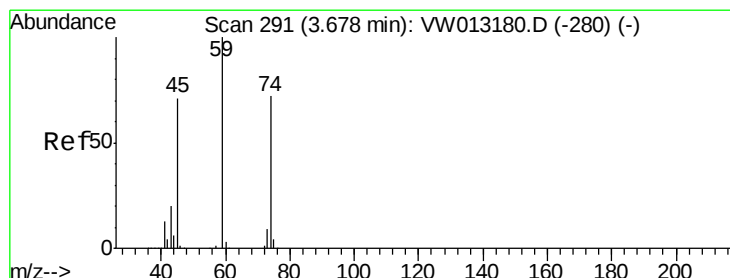
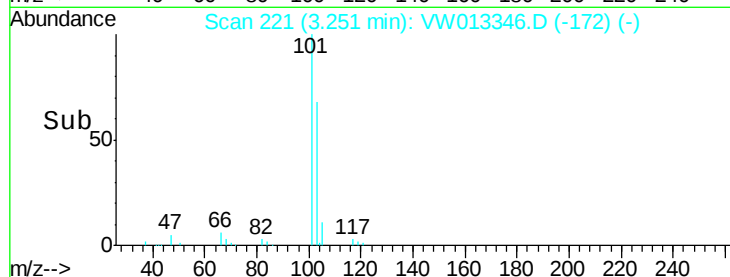
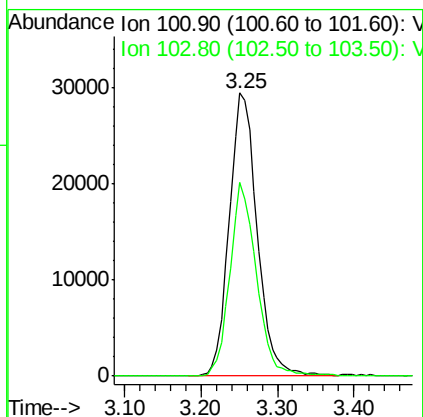
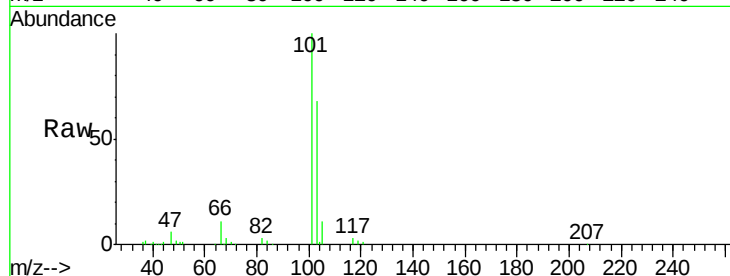
Trichlorofluoromethane
 Concen: 45.534 ug/l
 RT: 3.25 min Scan# 221
 Delta R.T. -0.00 min
 Lab File: VW013346.D
 Acq: 30 Sep 2019 21:46

Instrument :
 MSVOA_W
 ClientSampleId :
 VSTDCCC050

Tot Ion	Ratio	Lower	Upper
101	100		
103	68.4	49.7	74.5

Manual Integrations
 APPROVED

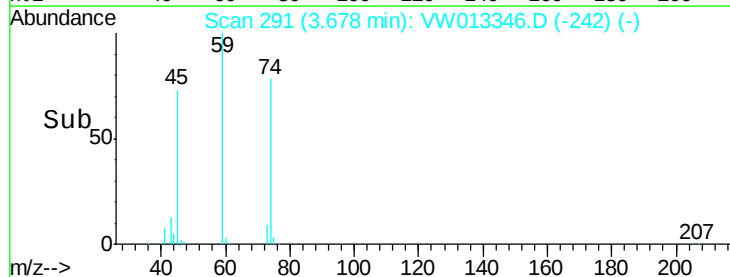
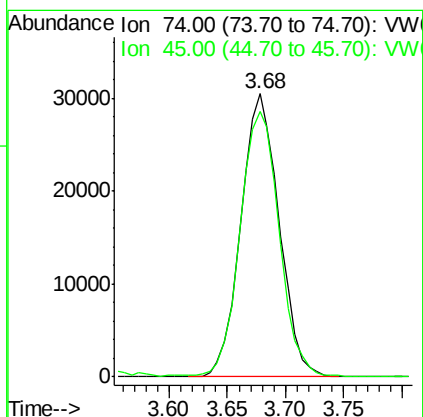
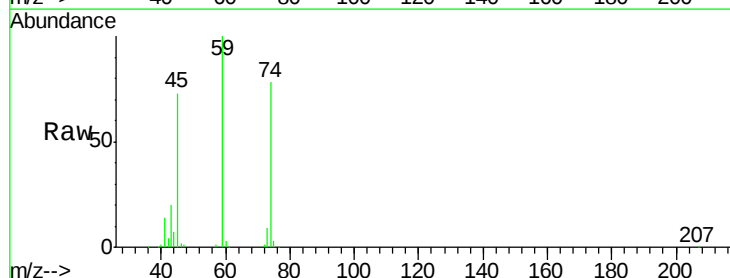
MMDadoda
 10/1/2019 11:33:06 AM

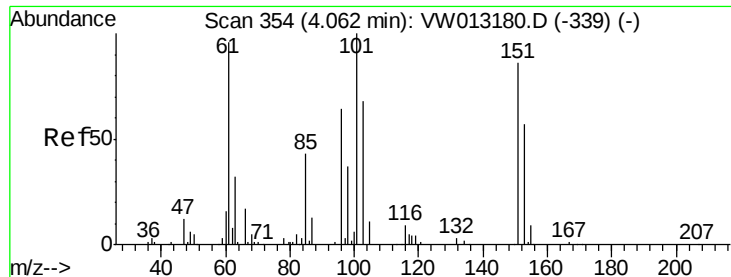


#8

Diethyl Ether
 Concen: 49.718 ug/l
 RT: 3.68 min Scan# 291
 Delta R.T. -0.00 min
 Lab File: VW013346.D
 Acq: 30 Sep 2019 21:46

Tgt Ion	Ratio	Lower	Upper
74	100		
45	96.3	49.5	148.7





#9

1,1,2-Trichlorotrifluoroethane

Concen: 49.982 ug/l

RT: 4.07 min Scan# 355

Delta R.T. 0.01 min

Lab File: VW013346.D

Acq: 30 Sep 2019 21:46

Instrument :

MSVOA_W

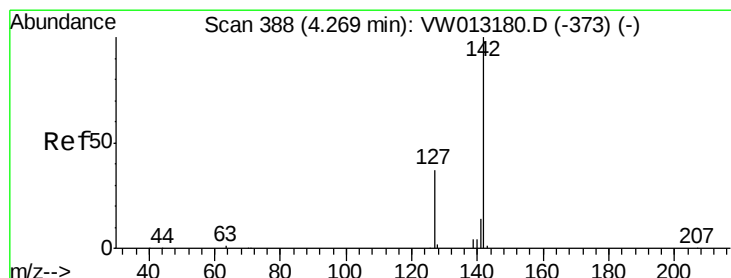
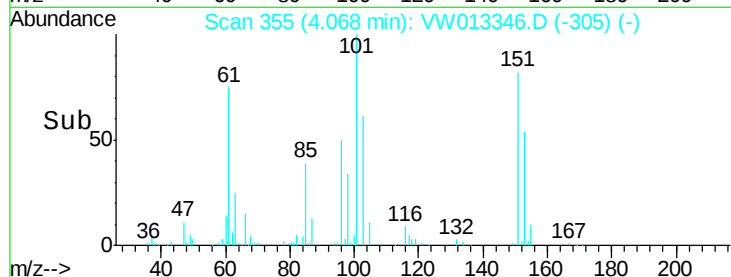
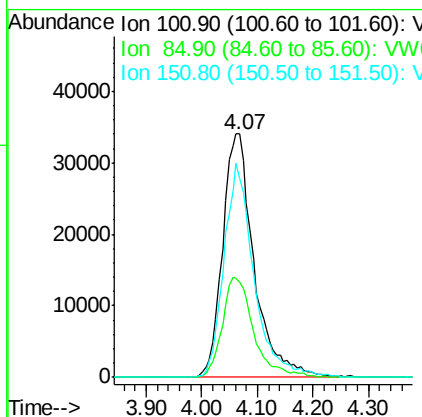
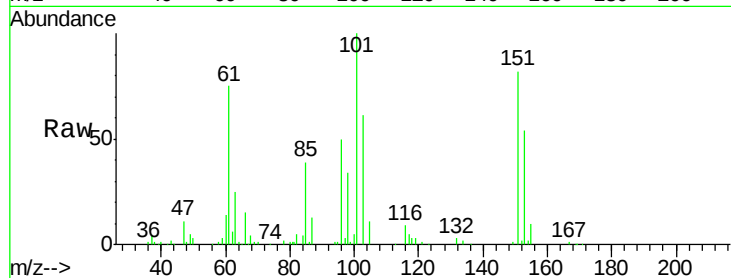
ClientSampleId :

VSTDCCC050

Tot Ion:	101	Resp:	133373
Ion Ratio	Lower	Upper	
101	100		
85	40.8	33.4	50.0
151	84.2	66.9	100.3

Manual Integrations
APPROVED

MMDadoda
10/1/2019 11:33:06 AM



#10

Methyl Iodide

Concen: 49.758 ug/l

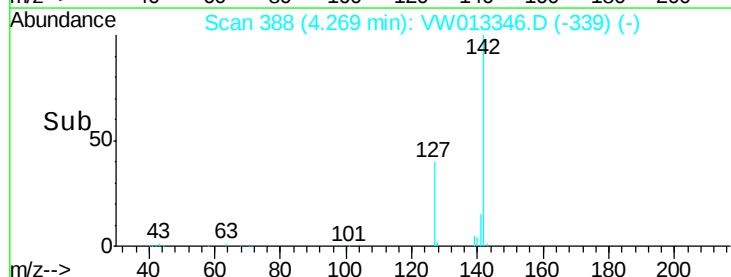
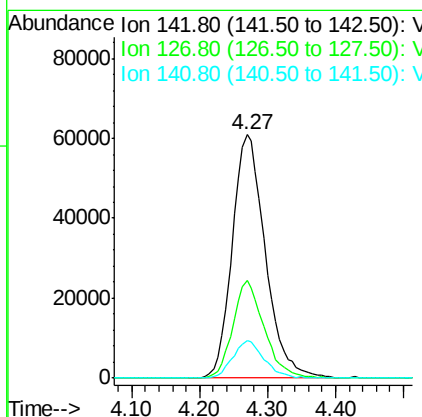
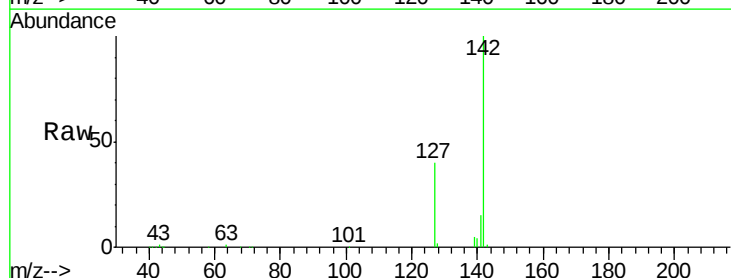
RT: 4.27 min Scan# 388

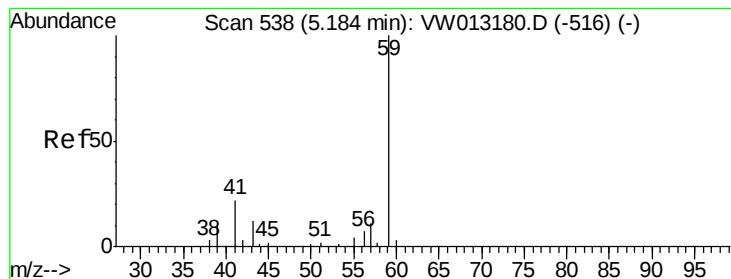
Delta R.T. -0.00 min

Lab File: VW013346.D

Acq: 30 Sep 2019 21:46

Tgt Ion:	142	Resp:	205855
Ion Ratio	Lower	Upper	
142	100		
127	38.2	30.9	46.3
141	14.6	11.7	17.5





#11

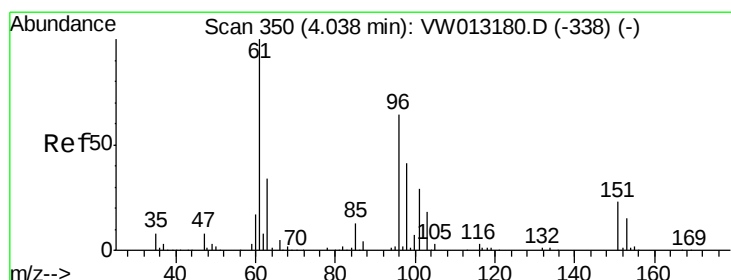
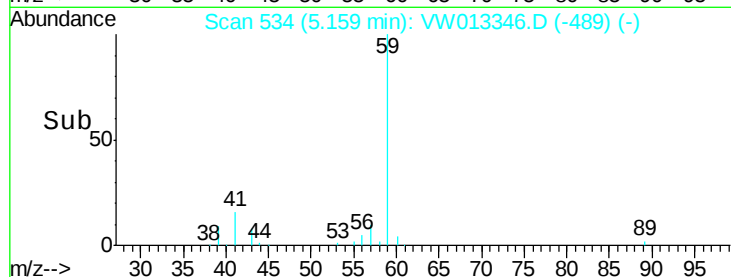
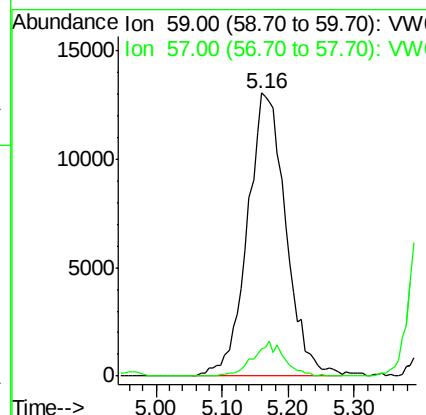
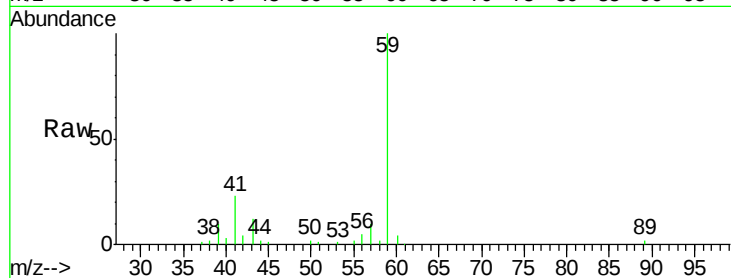
Tert butyl alcohol
 Concen: 303.923 ug/l
 RT: 5.16 min Scan# 534
 Delta R.T. -0.02 min
 Lab File: VW013346.D
 Acq: 30 Sep 2019 21:46

Instrument :
 MSVOA_W
 ClientSampled :
 VSTDCCC050

Tot Ion	Ratio	Lower	Upper
59	100		
57	9.8	8.2	12.2

Manual Integrations
 APPROVED

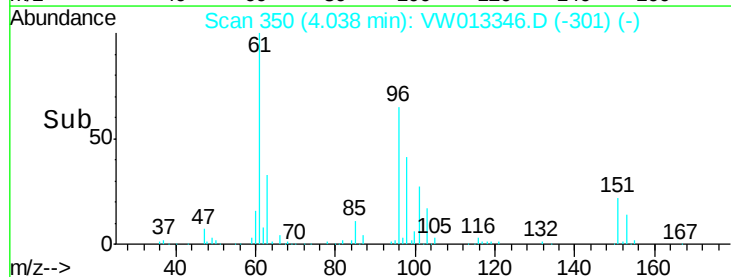
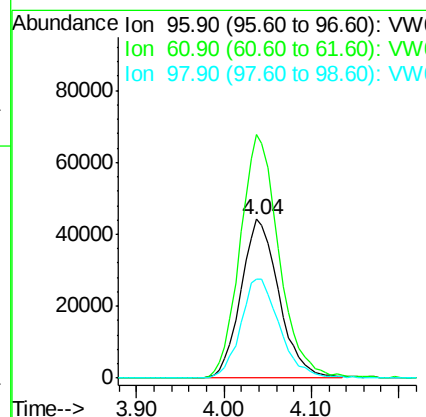
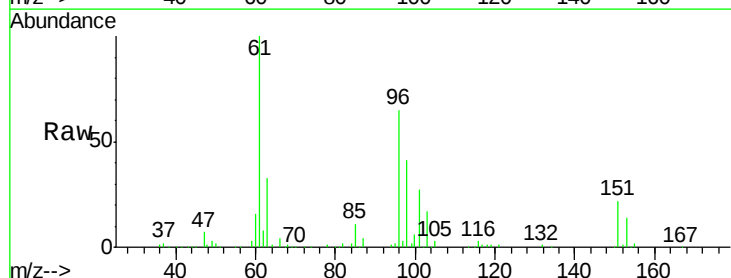
MMDadoda
 10/1/2019 11:33:06 AM

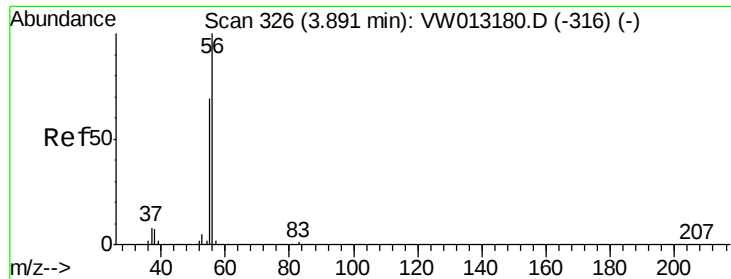


#12

1,1-Dichloroethene
 Concen: 48.547 ug/l
 RT: 4.04 min Scan# 350
 Delta R.T. -0.00 min
 Lab File: VW013346.D
 Acq: 30 Sep 2019 21:46

Tgt Ion	Ratio	Lower	Upper
96	100		
61	153.1	125.1	187.7
98	62.1	50.8	76.2





#13

Acrolein

Concen: 178.083 ug/l

RT: 3.89 min Scan# 325

Delta R.T. -0.01 min

Lab File: VW013346.D

Acq: 30 Sep 2019 21:46

Instrument :

MSVOA_W

ClientSampleId :

VSTDCCC050

Tot Ion: 56 Resp: 24877

Ion Ratio Lower Upper

56 100

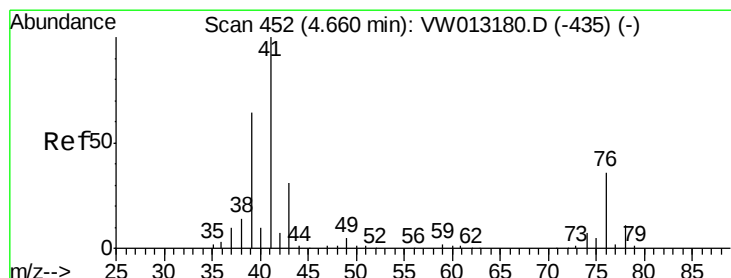
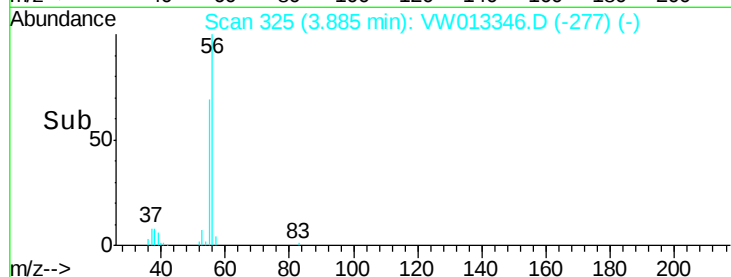
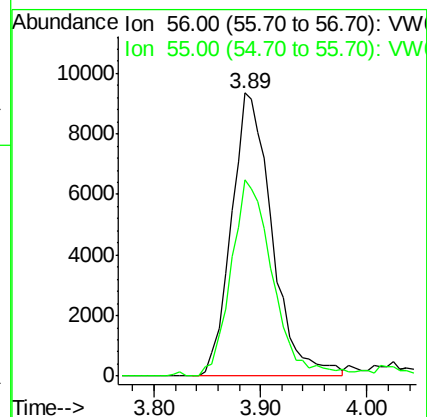
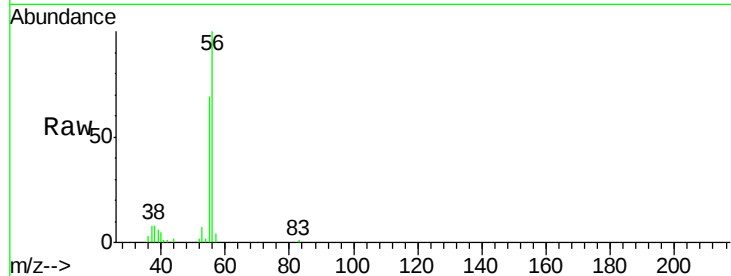
55 70.7 55.4 83.0

Manual Integrations

APPROVED

MMDadoda

10/1/2019 11:33:06 AM



#14

Allyl chloride

Concen: 47.914 ug/l

RT: 4.67 min Scan# 453

Delta R.T. 0.01 min

Lab File: VW013346.D

Acq: 30 Sep 2019 21:46

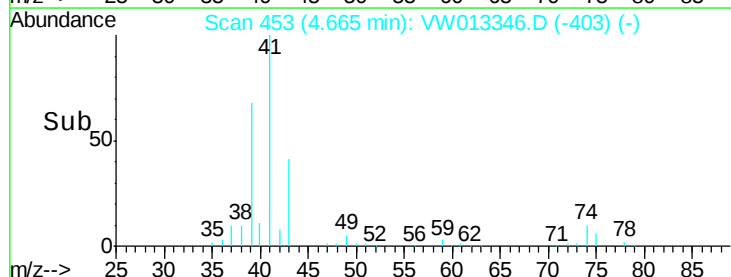
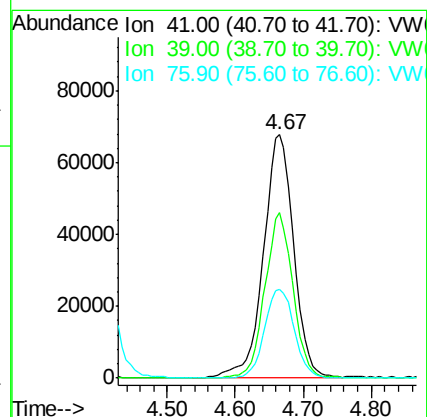
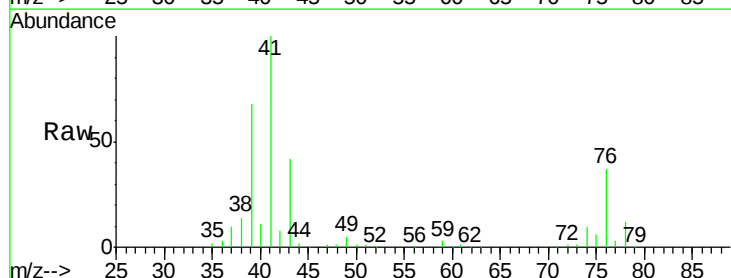
Tgt Ion: 41 Resp: 210709

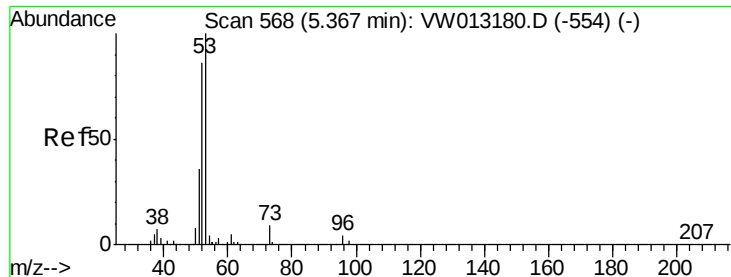
Ion Ratio Lower Upper

41 100

39 63.4 51.0 76.4

76 35.3 28.4 42.6





#15

Acrylonitrile

Concen: 271.763 ug/l

RT: 5.36 min Scan# 567

Delta R.T. -0.01 min

Lab File: VW013346.D

Acq: 30 Sep 2019 21:46

Instrument :

MSVOA_W

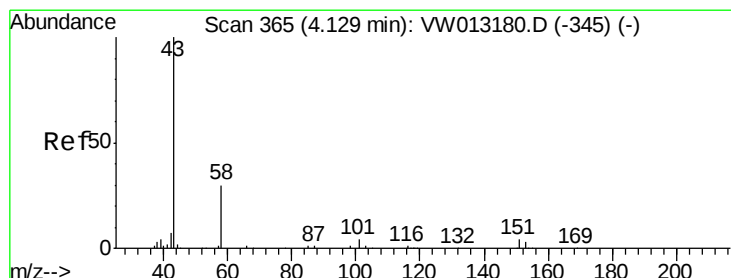
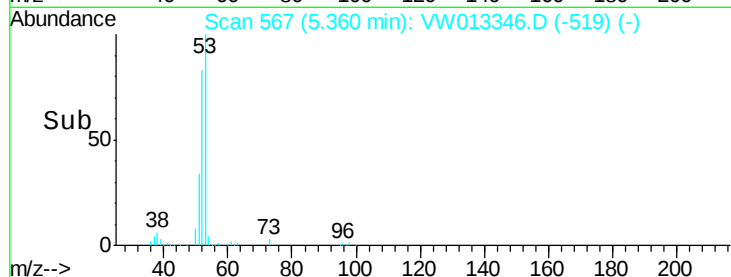
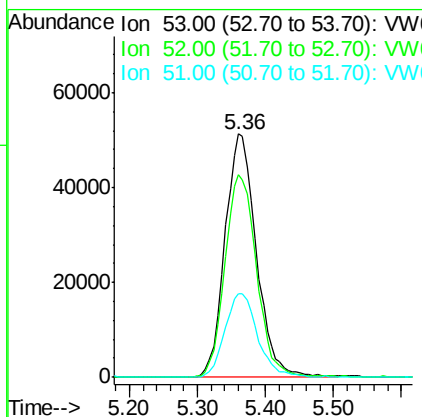
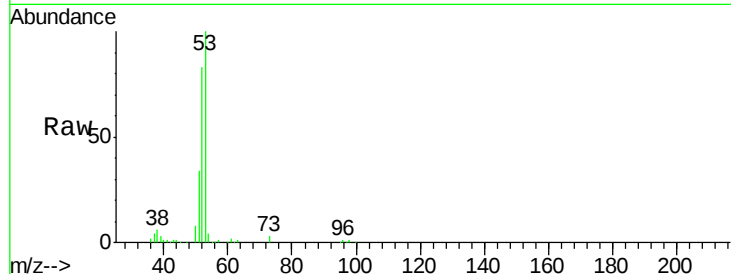
ClientSampleId :

VSTDCCC050

Tot Ion:	53	Resp:	164213
Ion Ratio	Lower	Upper	
53	100		
52	84.0	65.3	97.9
51	36.0	29.0	43.4

Manual Integrations
APPROVED

MMDadoda
10/1/2019 11:33:06 AM



#16

Acetone

Concen: 250.971 ug/l

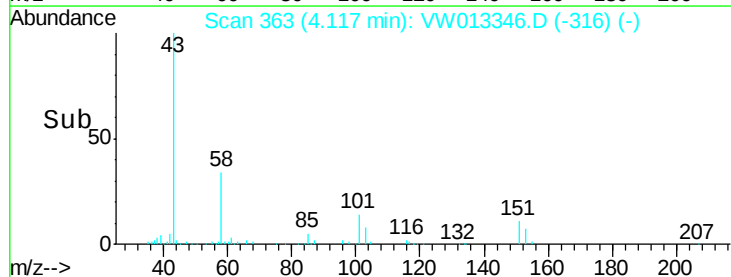
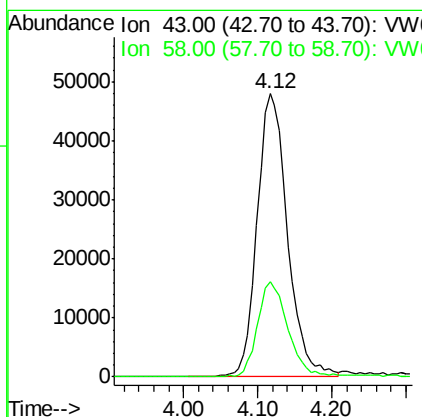
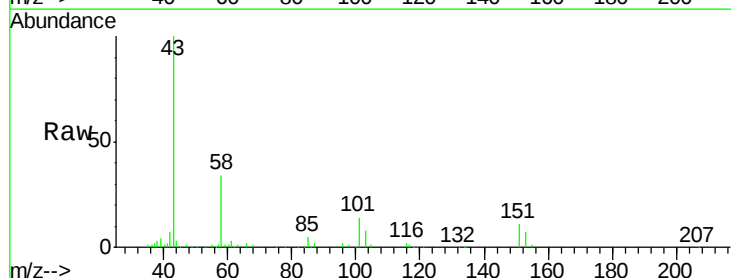
RT: 4.12 min Scan# 363

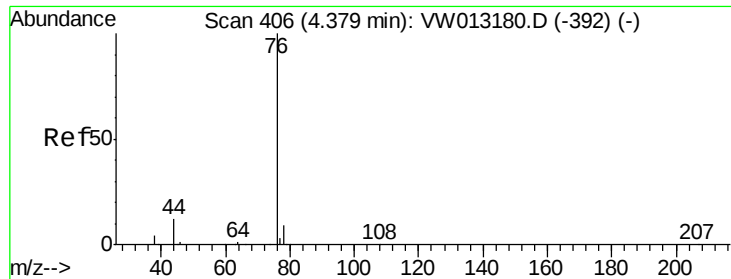
Delta R.T. -0.01 min

Lab File: VW013346.D

Acq: 30 Sep 2019 21:46

Tgt Ion:	43	Resp:	137343
Ion Ratio	Lower	Upper	
43	100		
58	33.4	24.1	36.1





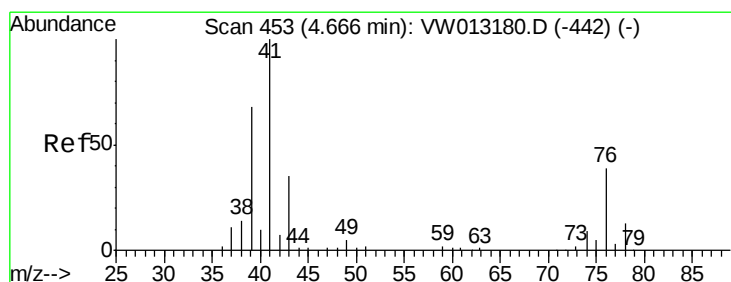
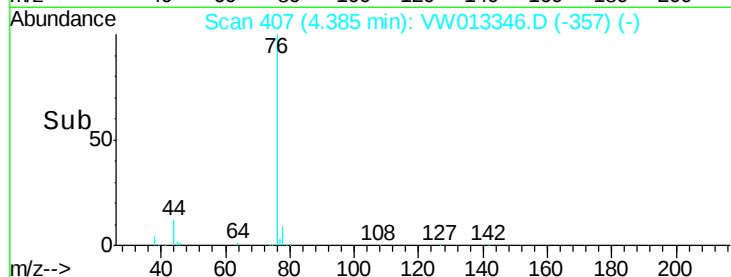
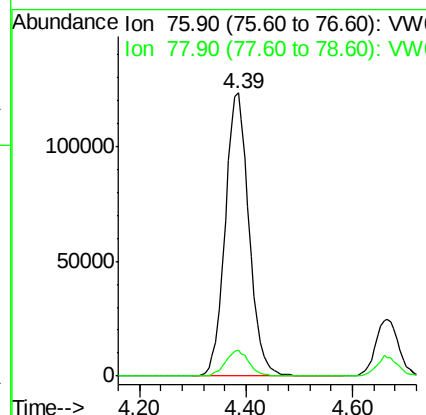
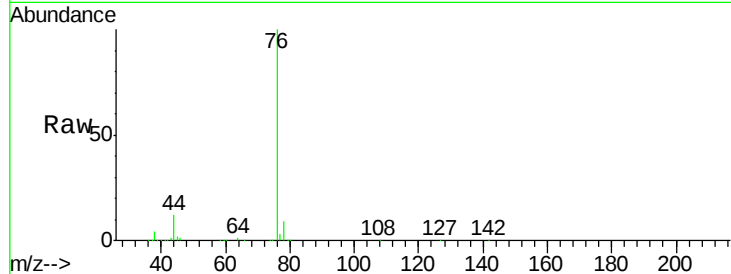
#17
Carbon Disulfide
Concen: 48.184 ug/l
RT: 4.39 min Scan# 407
Delta R.T. 0.01 min
Lab File: VW013346.D
Acq: 30 Sep 2019 21:46

Instrument :
MSVOA_W
ClientSampleId :
VSTDCCC050

Tot Ion	Ratio	Resp	Lower	Upper
76	100	384825		
78	9.3		7.0	10.4

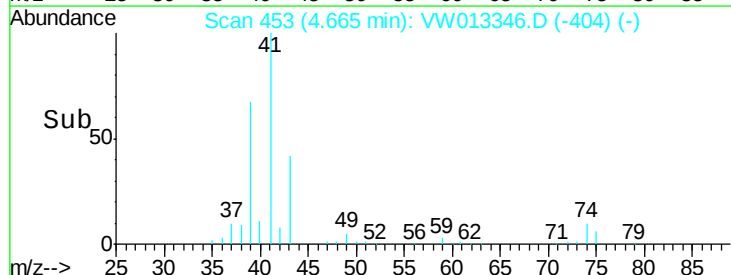
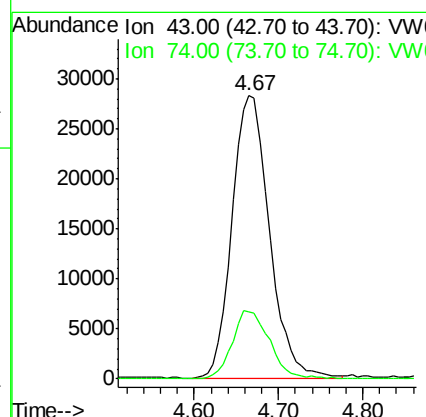
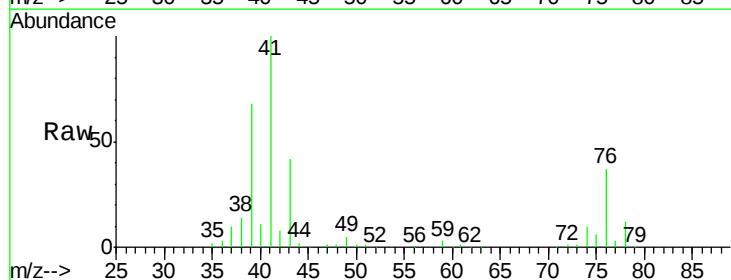
Manual Integrations
APPROVED

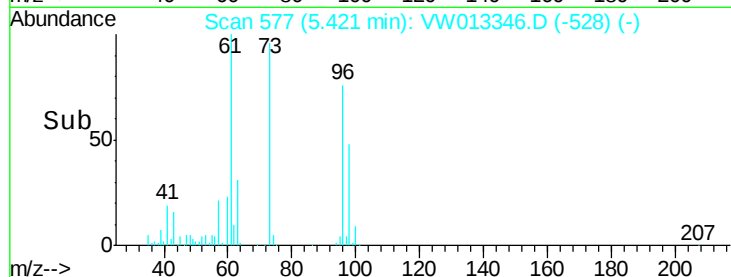
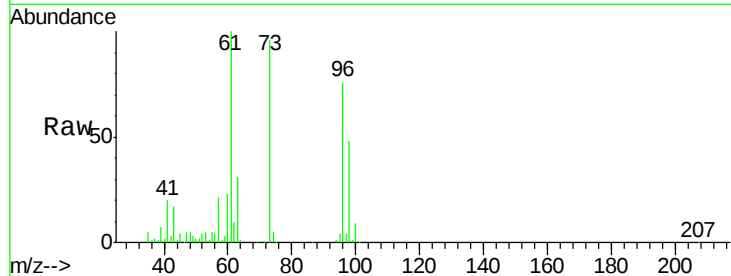
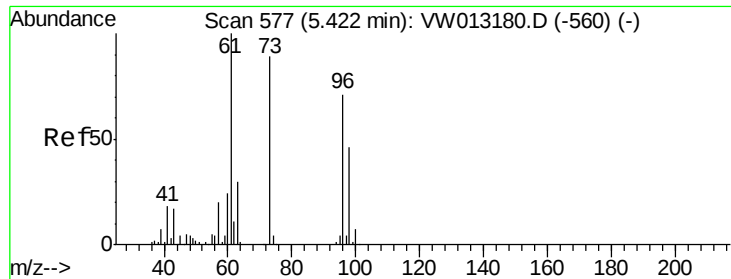
MMDadoda
10/1/2019 11:33:06 AM



#18
Methyl Acetate
Concen: 55.000 ug/l
RT: 4.67 min Scan# 453
Delta R.T. -0.00 min
Lab File: VW013346.D
Acq: 30 Sep 2019 21:46

Tgt Ion	Ratio	Resp	Lower	Upper
43	100	84607		
74	24.3		19.3	28.9





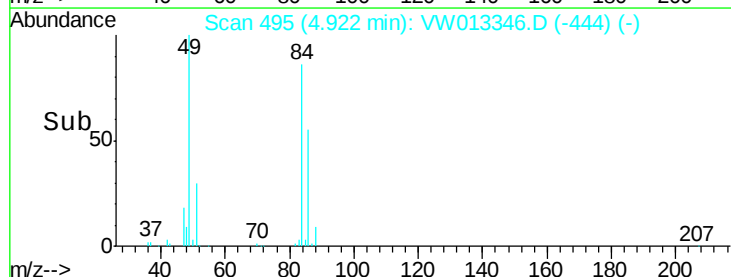
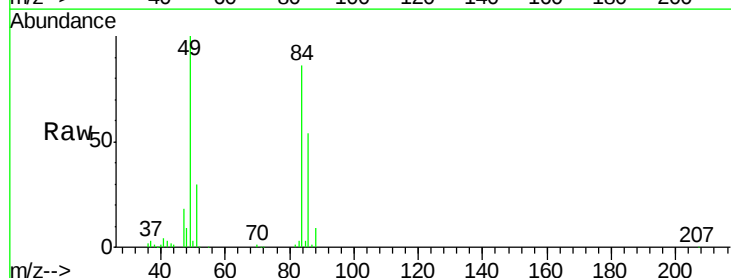
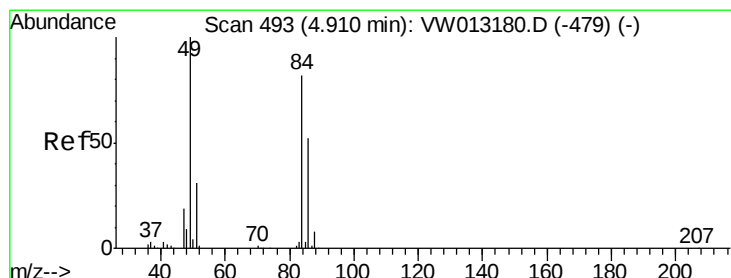
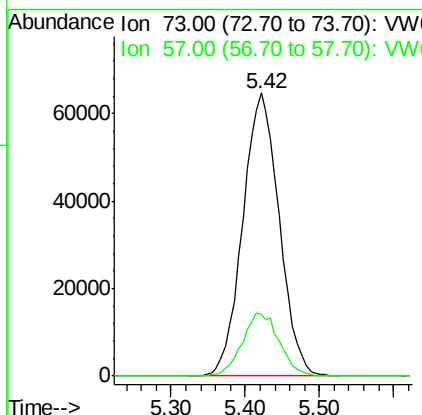
#19
Methvl tert-butvl Ether
Concen: 52.357 ug/l
RT: 5.42 min Scan# 577
Delta R.T. -0.00 min
Lab File: VW013346.D
Acq: 30 Sep 2019 21:46

Tot Ion	73	Resp	221728
Ion Ratio	100	Lower	Upper
73	100	17.6	26.4
57	22.0		

Instrument :
MSVOA_W
ClientSampleId :
VSTDCCC050

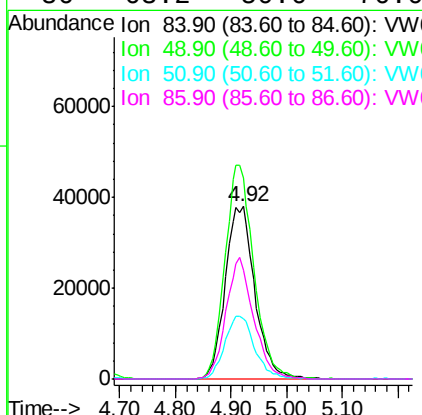
Manual Integrations
APPROVED

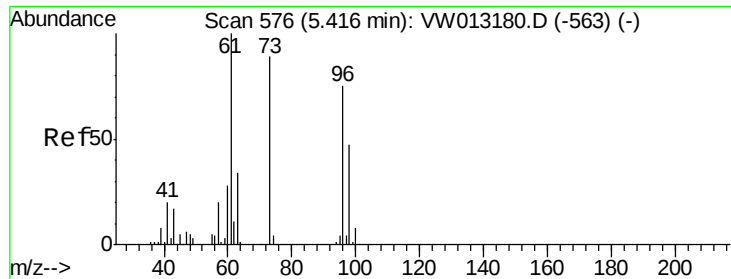
MMDadoda
10/1/2019 11:33:06 AM



#20
Methylene Chloride
Concen: 50.077 ug/l
RT: 4.92 min Scan# 495
Delta R.T. 0.01 min
Lab File: VW013346.D
Acq: 30 Sep 2019 21:46

Tgt Ion	84	Resp	140142
Ion Ratio	100	Lower	Upper
84	100	97.6	146.4
49	116.1	30.2	45.2
51	35.1	50.6	76.0
86	63.2		





#21

trans-1,2-Dichloroethene

Concen: 49.584 ug/l

RT: 5.42 min Scan# 577

Delta R.T. 0.01 min

Lab File: VW013346.D

Acq: 30 Sep 2019 21:46

Instrument :

MSVOA_W

ClientSampleId :

VSTDCCC050

Tot Ion: 96 Resp: 148082

Ion Ratio Lower Upper

96 100

61 131.5 106.6 159.8

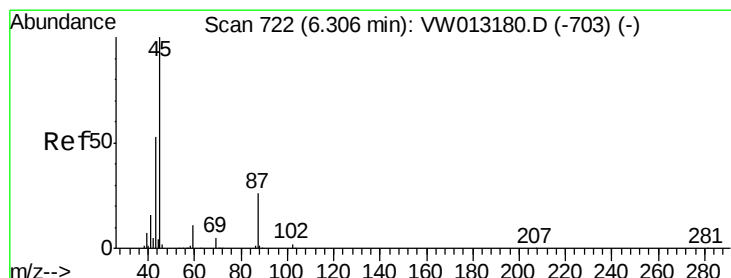
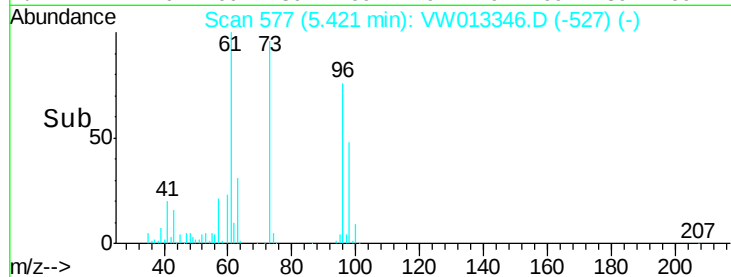
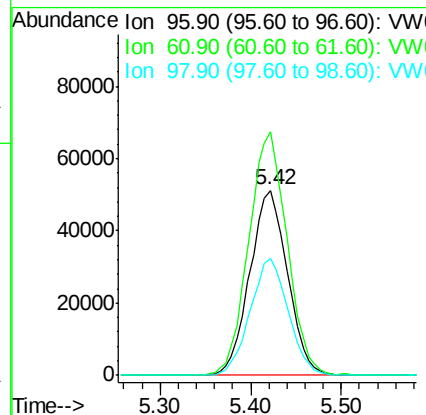
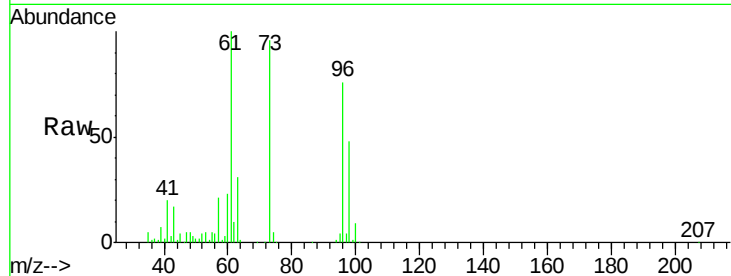
98 63.1 49.8 74.8

Manual Integrations

APPROVED

MMDadoda

10/1/2019 11:33:06 AM



#22

Diisopropyl ether

Concen: 49.674 ug/l

RT: 6.31 min Scan# 722

Delta R.T. -0.00 min

Lab File: VW013346.D

Acq: 30 Sep 2019 21:46

Tgt Ion: 45 Resp: 415400

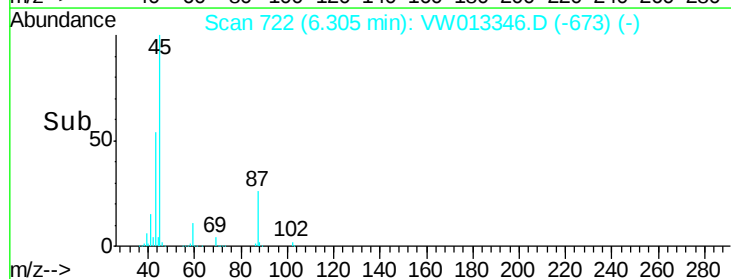
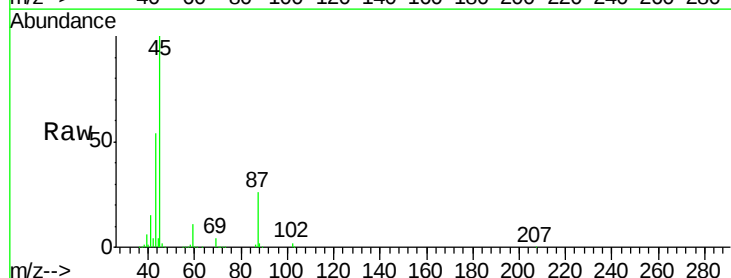
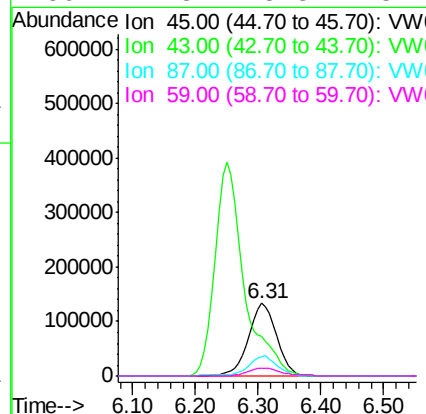
Ion Ratio Lower Upper

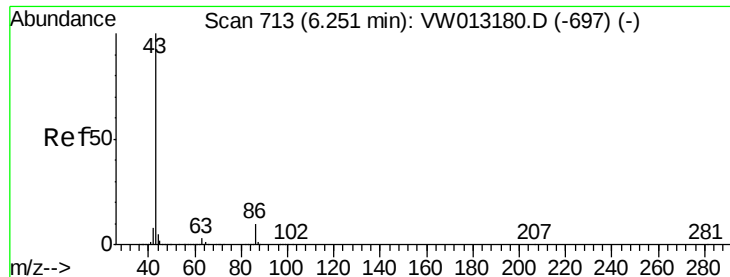
45 100

43 53.7 42.4 63.6

87 25.9 20.4 30.6

59 11.3 8.8 13.2





#23

Vinyl Acetate

Concen: 255.768 ug/l

RT: 6.25 min Scan# 713

Delta R.T. -0.00 min

Lab File: VW013346.D

Acq: 30 Sep 2019 21:46

Instrument :

MSVOA_W

ClientSampleId :

VSTDCCC050

Tot Ion: 43 Resp: 1268882

Ion Ratio Lower Upper

43 100

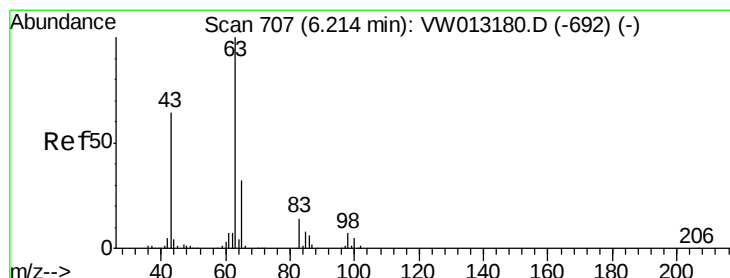
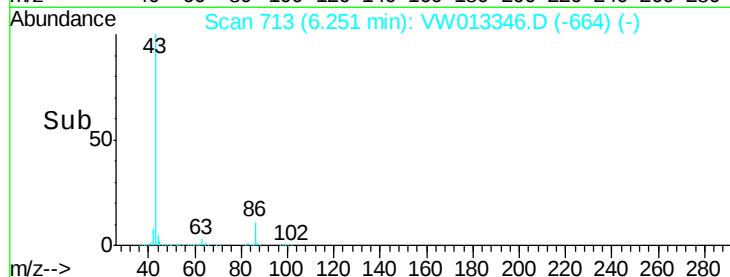
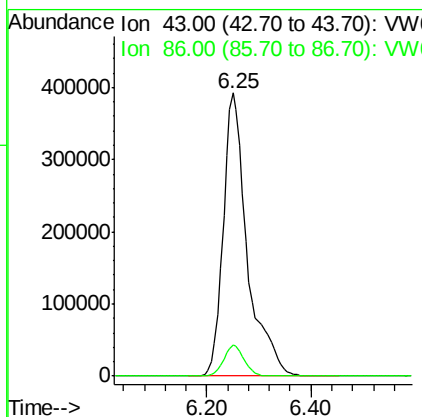
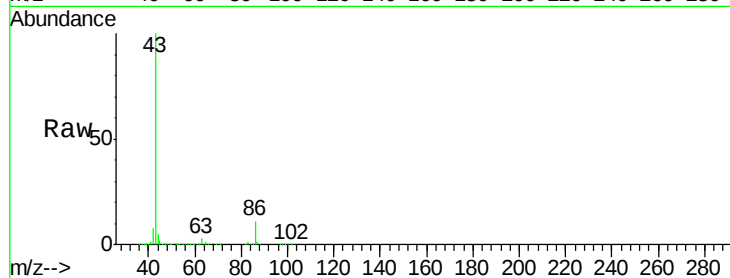
86 11.1 8.3 12.5

Manual Integrations

APPROVED

MMDadoda

10/1/2019 11:33:06 AM



#24

1,1-Dichloroethane

Concen: 48.729 ug/l

RT: 6.21 min Scan# 707

Delta R.T. -0.00 min

Lab File: VW013346.D

Acq: 30 Sep 2019 21:46

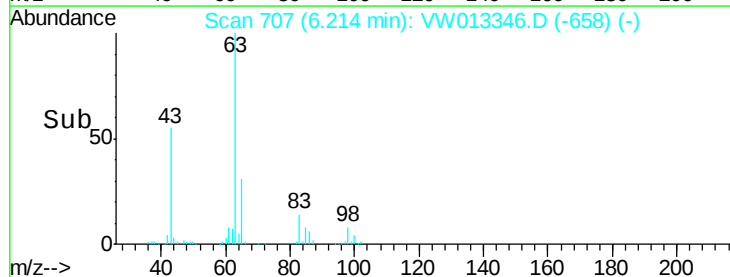
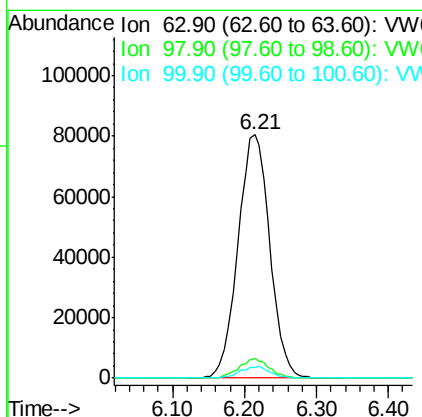
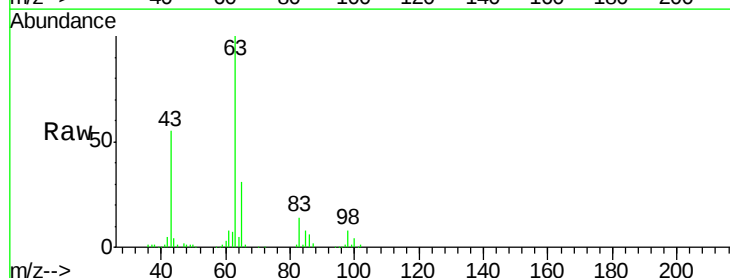
Tgt Ion: 63 Resp: 245894

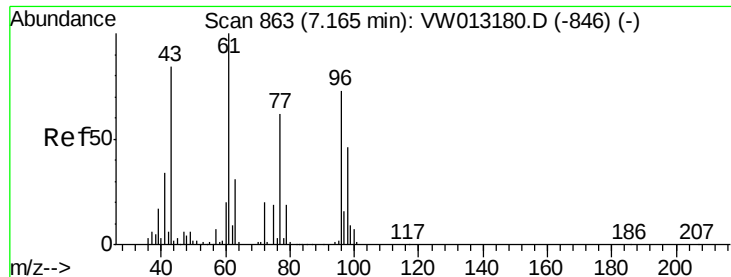
Ion Ratio Lower Upper

63 100

98 8.2 3.5 10.5

100 4.2 2.4 7.1





#25

2-Butanone

Concen: 264.526 ug/l

RT: 7.17 min Scan# 863

Delta R.T. -0.00 min

Lab File: VW013346.D

Acq: 30 Sep 2019 21:46

Instrument :

MSVOA_W

ClientSampleId :

VSTDCCC050

Tot Ion: 43 Resp: 217310

Ion Ratio Lower Upper

43 100

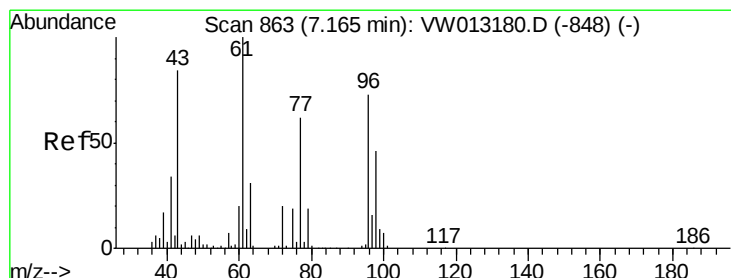
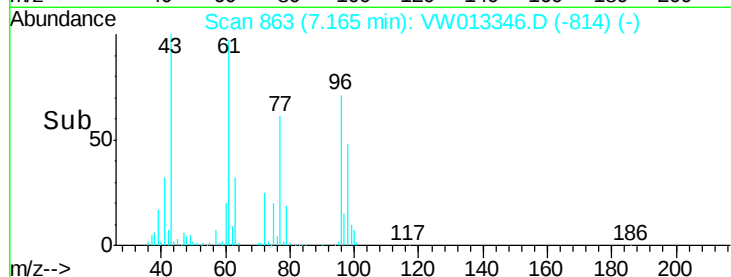
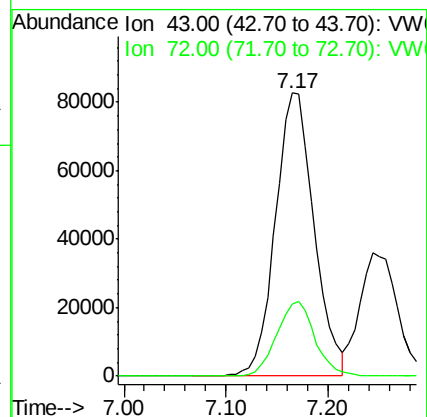
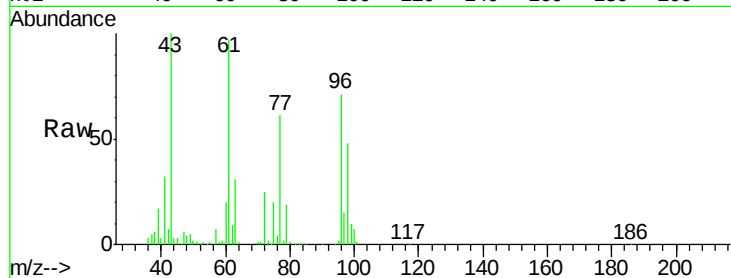
72 25.4 19.4 29.0

Manual Integrations

APPROVED

MMDadoda

10/1/2019 11:33:06 AM



#26

2,2-Dichloropropane

Concen: 49.728 ug/l

RT: 7.17 min Scan# 863

Delta R.T. 0.00 min

Lab File: VW013346.D

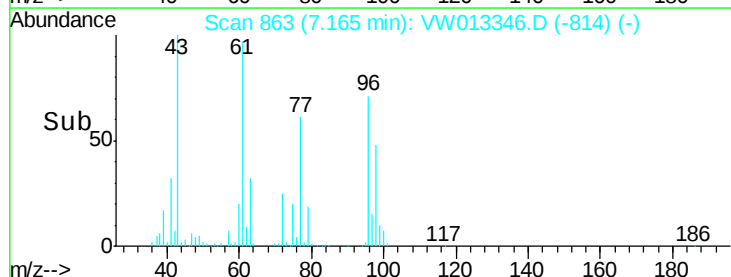
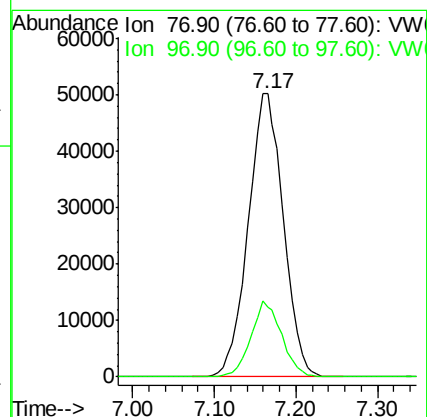
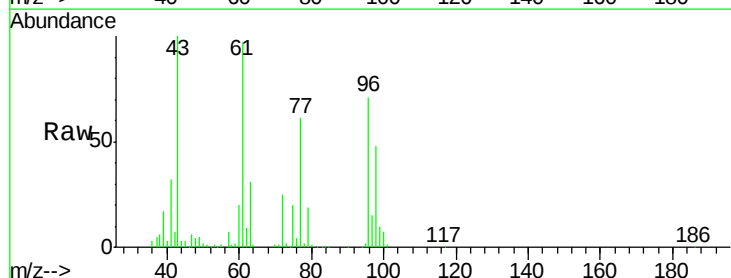
Acq: 30 Sep 2019 21:46

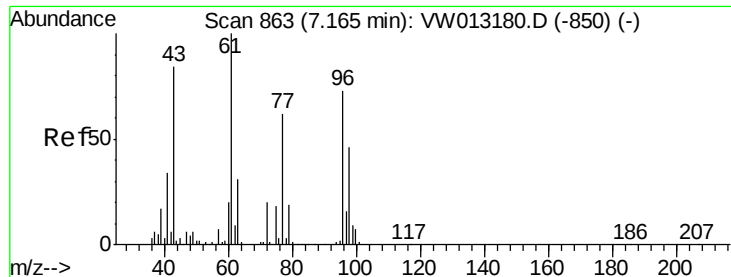
Tgt Ion: 77 Resp: 150196

Ion Ratio Lower Upper

77 100

97 23.4 11.8 35.4





#27

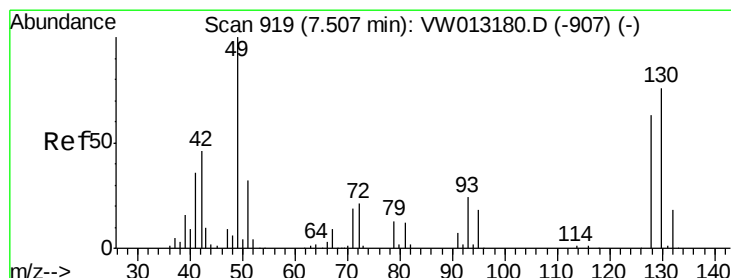
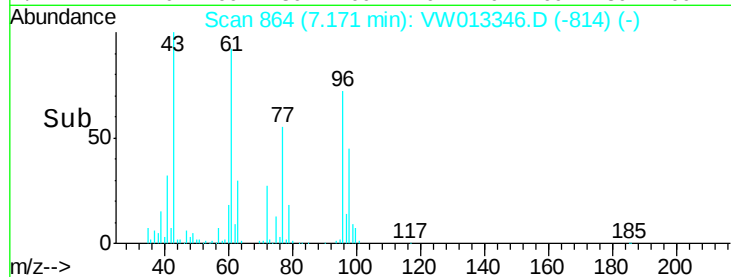
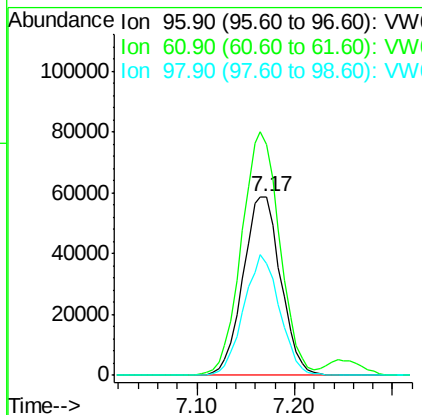
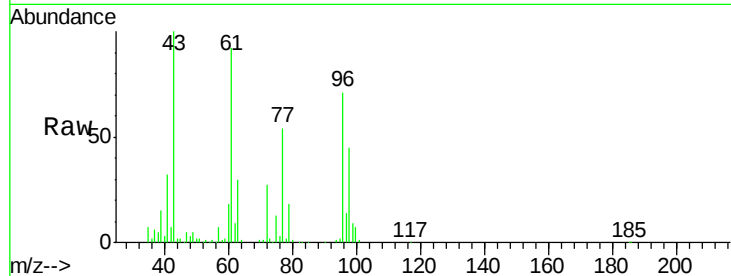
cis-1,2-Dichloroethene
Concen: 49.842 ug/l
RT: 7.17 min Scan# 864
Delta R.T. 0.01 min
Lab File: VW013346.D
Acq: 30 Sep 2019 21:46

Instrument :
MSVOA_W
ClientSampled :
VSTDCCC050

Tot Ion	Ratio	Resp	Lower	Upper
96	100	157090		
61	138.0	0.0	282.4	
98	64.1	0.0	128.2	

Manual Integrations
APPROVED

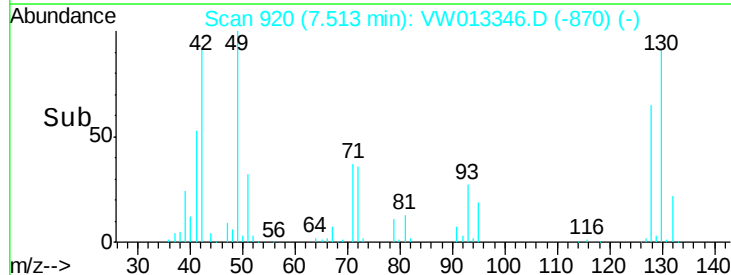
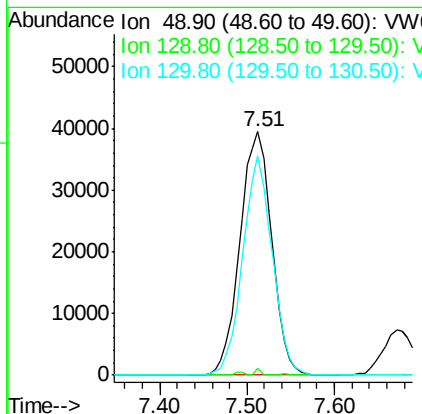
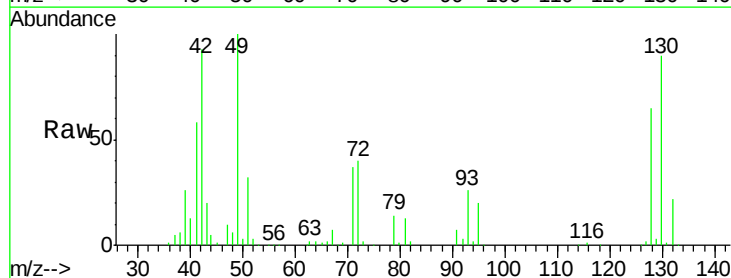
MMDadoda
10/1/2019 11:33:06 AM

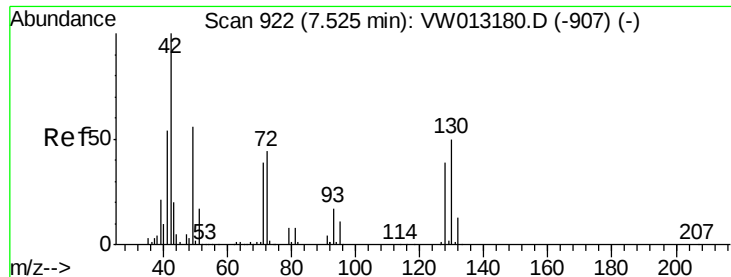


#28

Bromochloromethane
Concen: 51.506 ug/l
RT: 7.51 min Scan# 920
Delta R.T. 0.01 min
Lab File: VW013346.D
Acq: 30 Sep 2019 21:46

Tgt Ion	Ratio	Resp	Lower	Upper
49	100	99753		
129	0.4	0.0	1.0	
130	83.4	63.4	95.2	





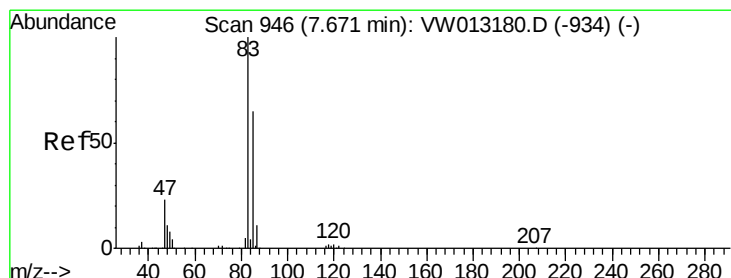
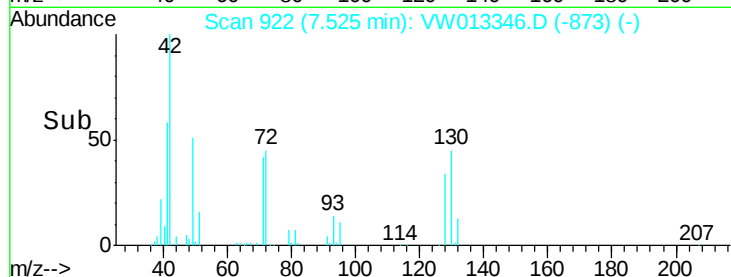
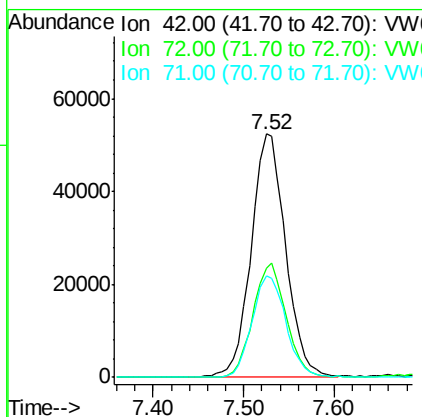
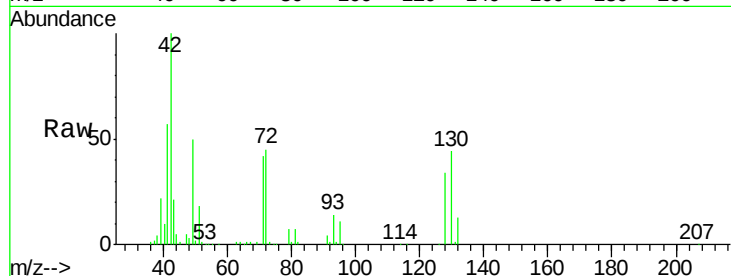
#29
Tetrahydrofuran
Concen: 274.039 ug/l
RT: 7.52 min Scan# 922
Delta R.T. -0.00 min
Lab File: VW013346.D
Acq: 30 Sep 2019 21:46

Instrument :
MSVOA_W
ClientSampleId :
VSTDCCC050

Tot Ion	Ratio	Lower	Upper
42	100		
72	45.1	33.9	50.9
71	41.0	31.9	47.9

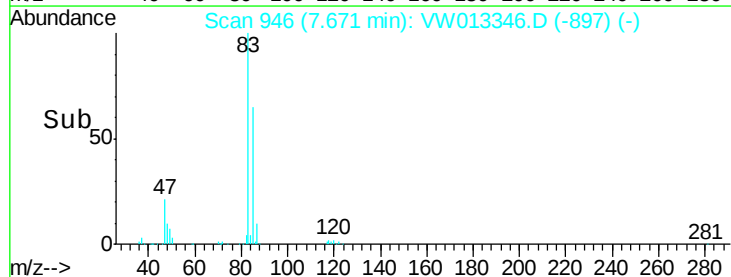
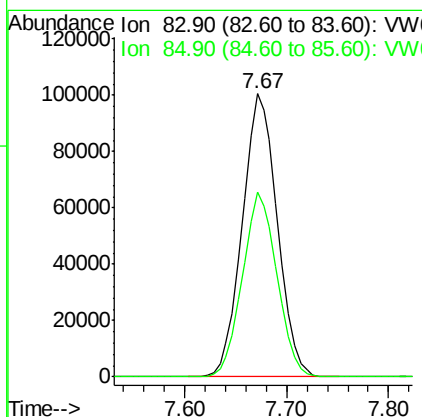
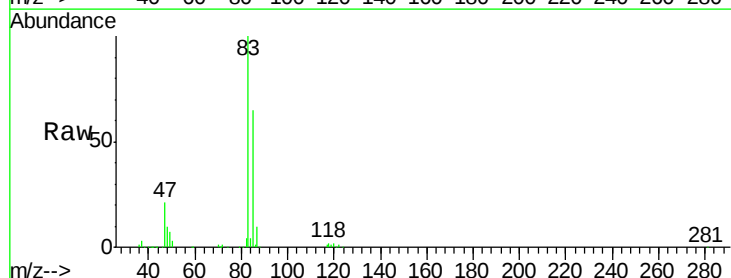
Manual Integrations
APPROVED

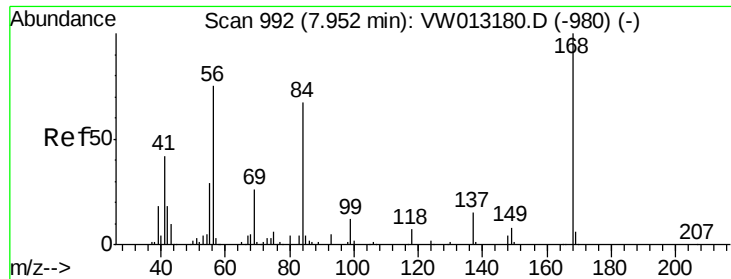
MMDadoda
10/1/2019 11:33:06 AM



#30
Chloroform
Concen: 48.533 ug/l
RT: 7.67 min Scan# 946
Delta R.T. -0.00 min
Lab File: VW013346.D
Acq: 30 Sep 2019 21:46

Tgt Ion	Ratio	Lower	Upper
83	100		
85	65.4	52.3	78.5





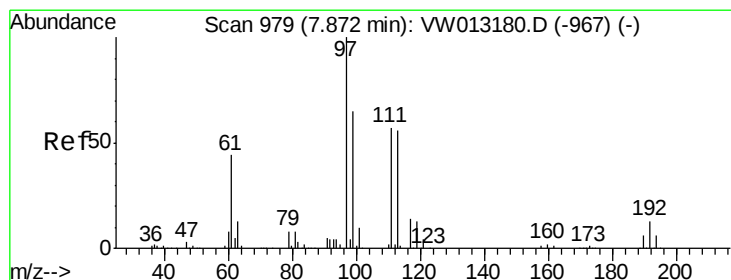
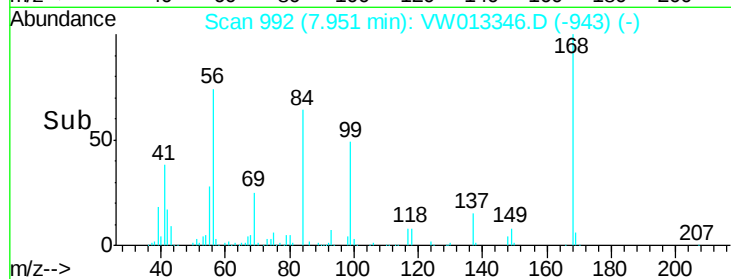
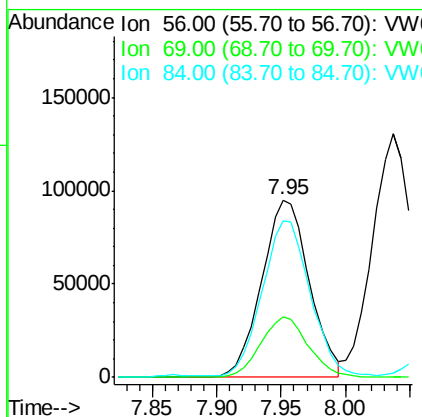
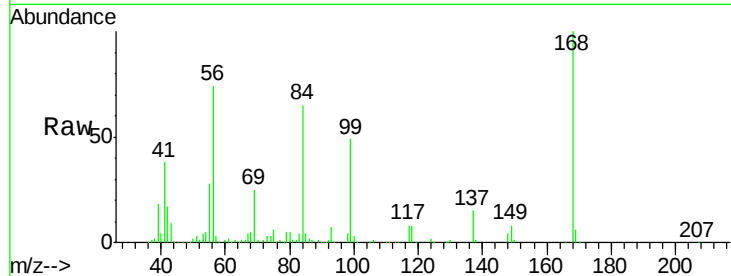
#31
Cyclohexane
Concen: 46.159 ug/l
RT: 7.95 min Scan# 992
Delta R.T. -0.00 min
Lab File: VW013346.D
Acq: 30 Sep 2019 21:46

Instrument :
MSVOA_W
ClientSampleId :
VSTDCCC050

Tot Ion	Ratio	Lower	Upper
56	100		
69	34.4	27.2	40.8
84	87.2	70.8	106.2

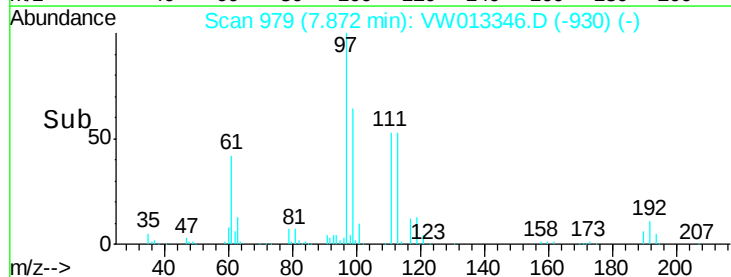
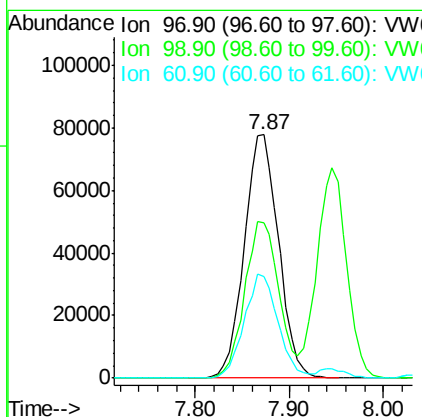
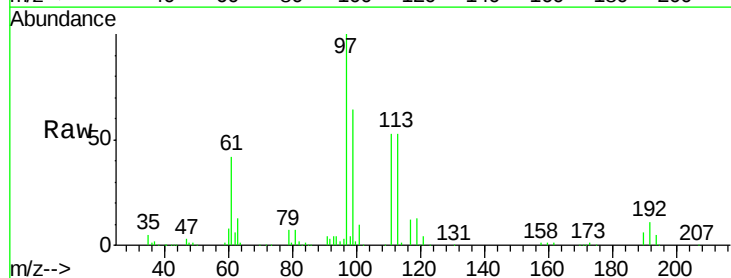
Manual Integrations
APPROVED

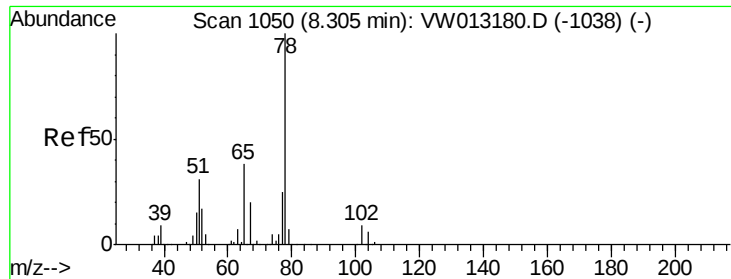
MMDadoda
10/1/2019 11:33:06 AM



#32
1,1,1-Trichloroethane
Concen: 49.608 ug/l
RT: 7.87 min Scan# 979
Delta R.T. -0.00 min
Lab File: VW013346.D
Acq: 30 Sep 2019 21:46

Tgt Ion	Ratio	Lower	Upper
97	100		
99	64.7	51.7	77.5
61	42.1	34.6	51.8





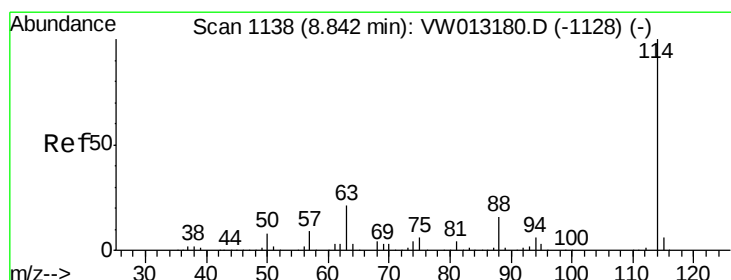
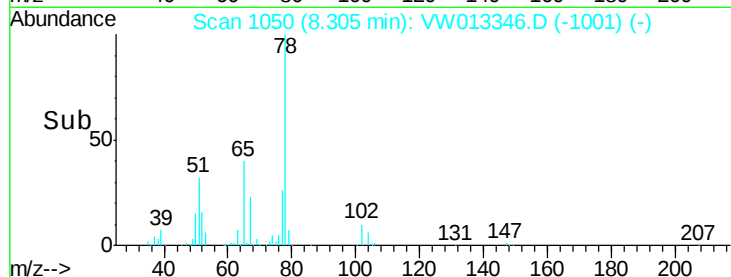
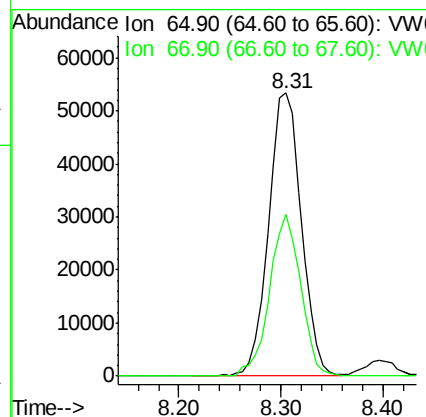
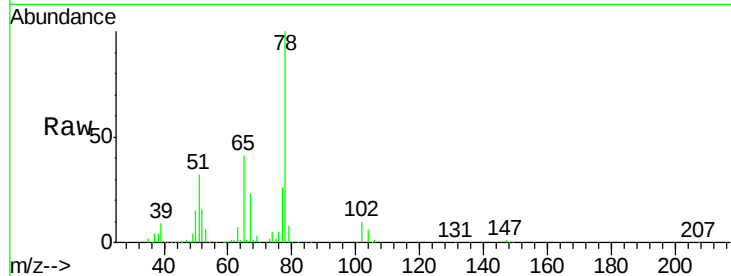
#33
 1,2-Dichloroethane-d4
 Concen: 48.913 ug/l
 RT: 8.31 min Scan# 1050
 Delta R.T. -0.00 min
 Lab File: VW013346.D
 Acq: 30 Sep 2019 21:46

Instrument :
 MSVOA_W
 ClientSampleId :
 VSTDCCC050

Tot Ion	Ratio	Resp	Lower	Upper
65	100	118697		
67	54.1	0.0	106.2	

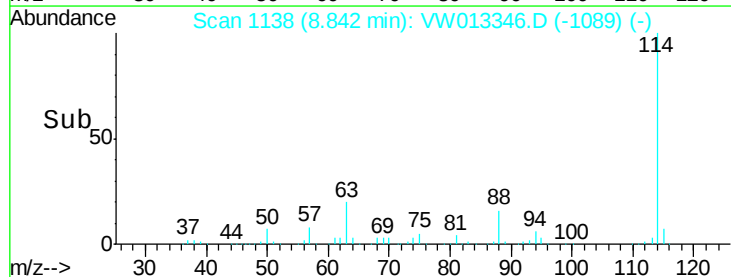
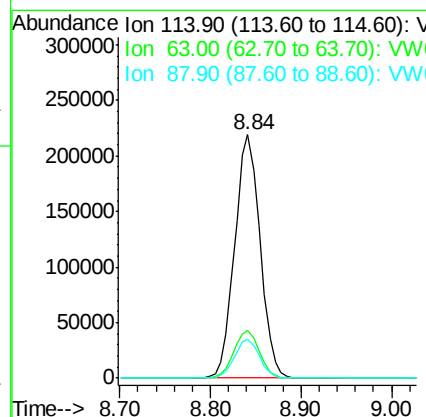
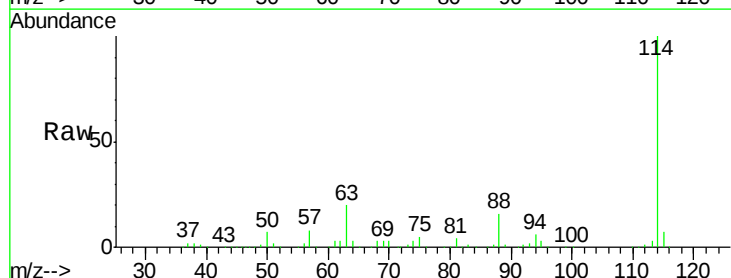
Manual Integrations
 APPROVED

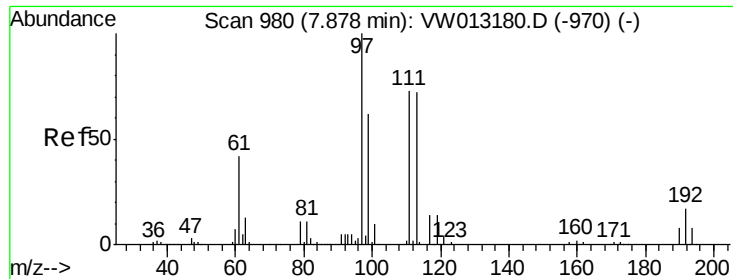
MMDadoda
 10/1/2019 11:33:06 AM



#34
 1,4-Difluorobenzene
 Concen: 50.000 ug/l
 RT: 8.84 min Scan# 1138
 Delta R.T. -0.00 min
 Lab File: VW013346.D
 Acq: 30 Sep 2019 21:46

Tgt Ion	Ratio	Resp	Lower	Upper
114	100	426065		
63	19.7	0.0	41.4	
88	15.8	0.0	32.0	





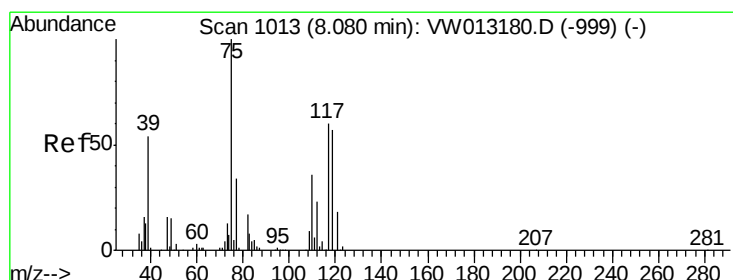
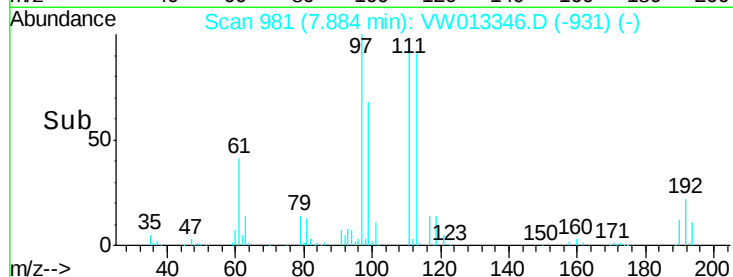
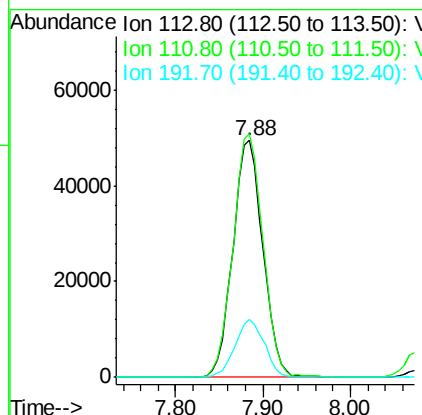
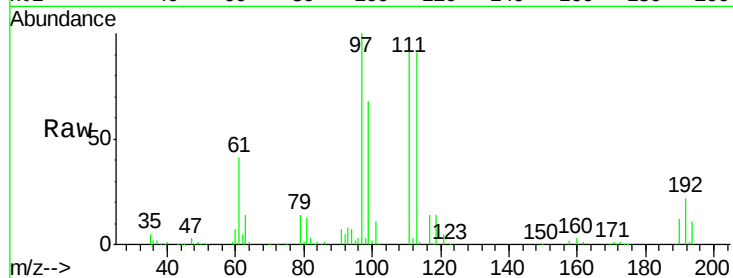
#35
 Dibromofluoromethane
 Concen: 50.404 ug/l
 RT: 7.88 min Scan# 981
 Delta R.T. 0.01 min
 Lab File: VW013346.D
 Acq: 30 Sep 2019 21:46

Instrument :
 MSVOA_W
 ClientSampleId :
 VSTDCCC050

Tot Ion	Ratio	Resp	Lower	Upper
113	100	118114		
111	102.6	81.9	122.9	
192	23.7	19.1	28.7	

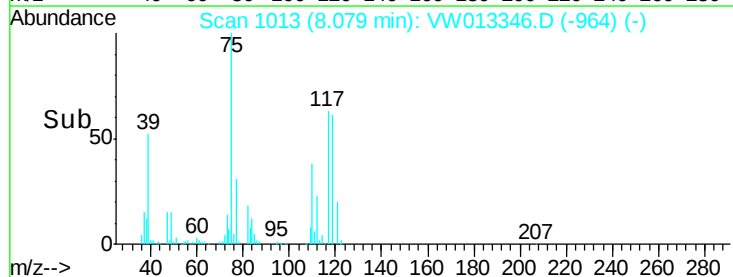
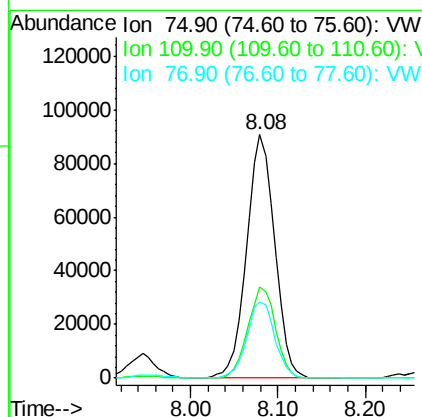
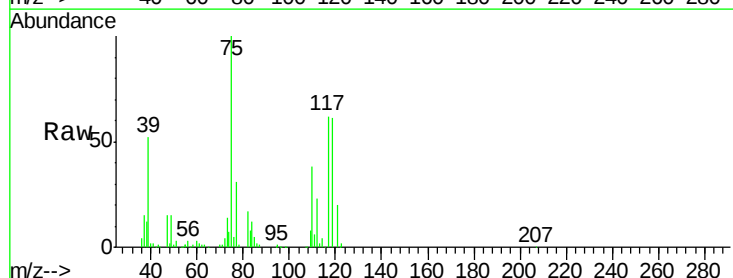
Manual Integrations
 APPROVED

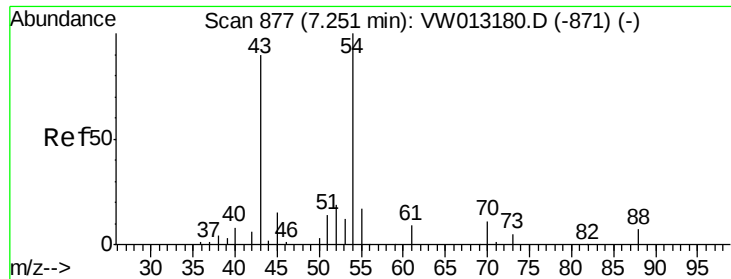
MMDadoda
 10/1/2019 11:33:06 AM



#36
 1,1-Dichloropropene
 Concen: 48.996 ug/l
 RT: 8.08 min Scan# 1013
 Delta R.T. -0.00 min
 Lab File: VW013346.D
 Acq: 30 Sep 2019 21:46

Tgt Ion	Ratio	Resp	Lower	Upper
75	100	202193		
110	36.8	18.1	54.3	
77	31.4	25.8	38.6	





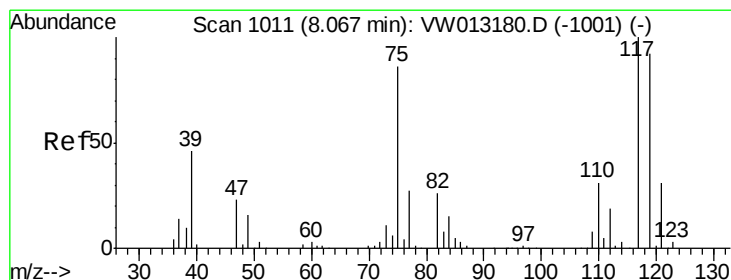
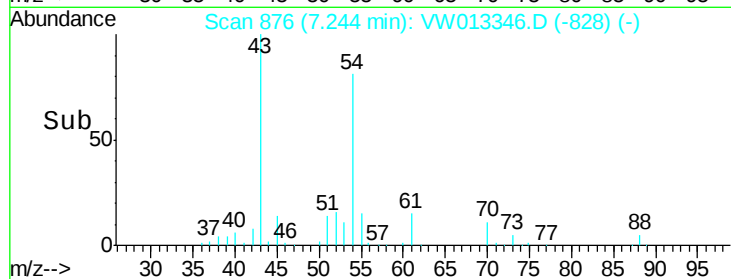
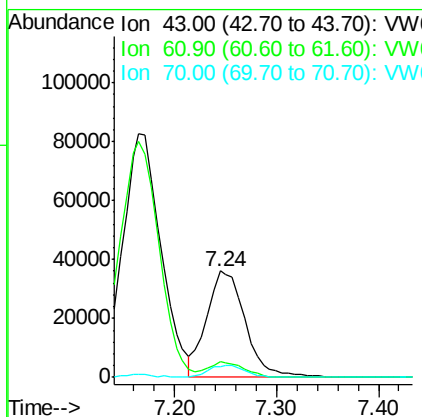
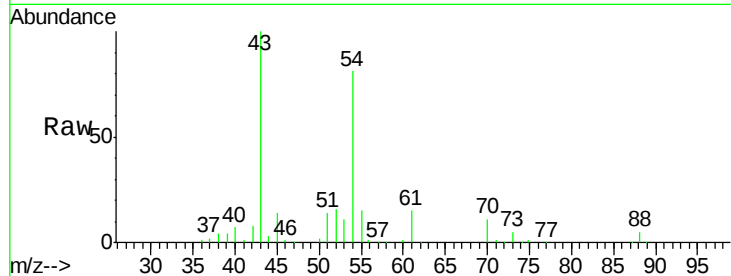
#37
Ethyl Acetate
Concen: 53.812 ug/l
RT: 7.24 min Scan# 876
Delta R.T. -0.01 min
Lab File: VW013346.D
Acq: 30 Sep 2019 21:46

Instrument :
MSVOA_W
ClientSampled :
VSTDCCC050

Tot Ion	Ratio	Lower	Upper
43	100		
61	14.1	10.9	16.3
70	11.2	8.2	12.2

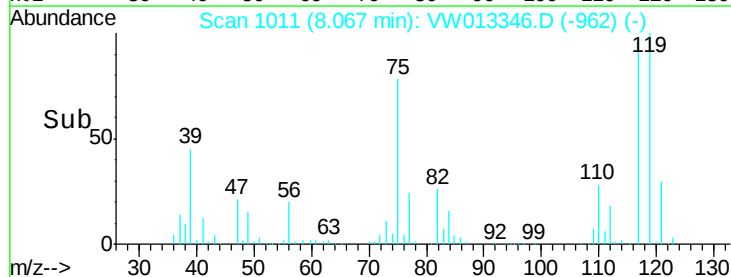
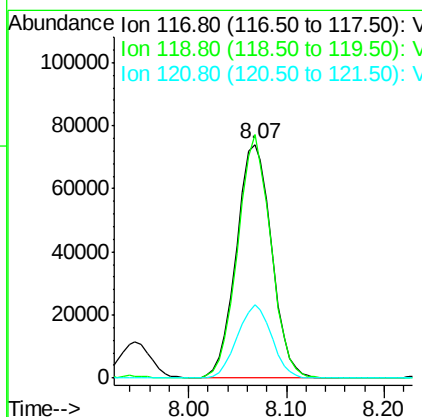
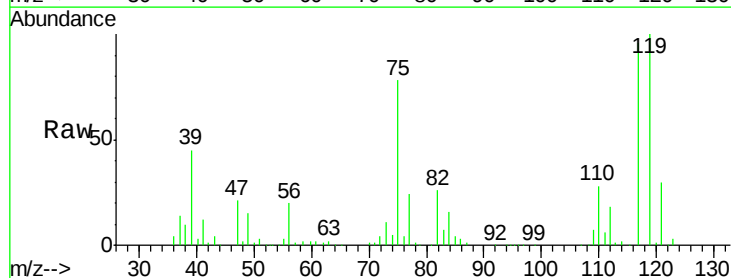
Manual Integrations
APPROVED

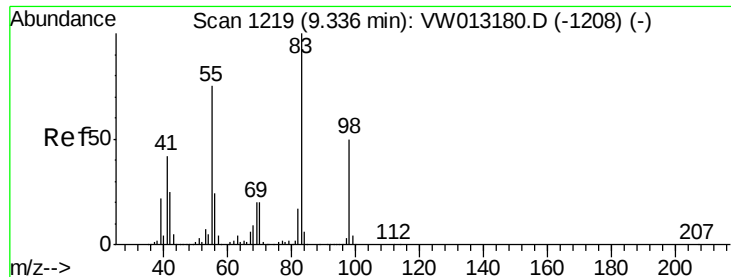
MMDadoda
10/1/2019 11:33:06 AM



#38
Carbon Tetrachloride
Concen: 50.189 ug/l
RT: 8.07 min Scan# 1011
Delta R.T. -0.00 min
Lab File: VW013346.D
Acq: 30 Sep 2019 21:46

Tgt Ion	Ratio	Lower	Upper
117	100		
119	104.2	73.5	110.3
121	31.2	25.0	37.6





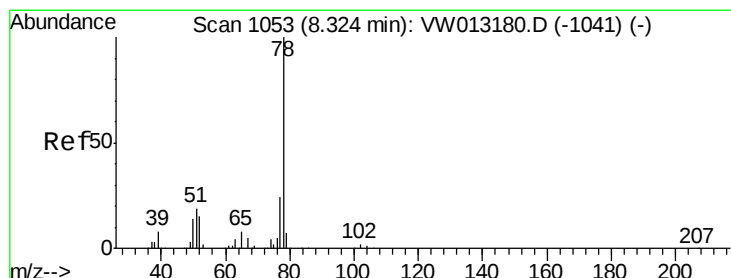
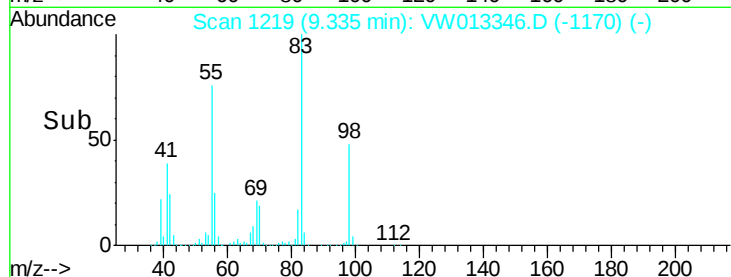
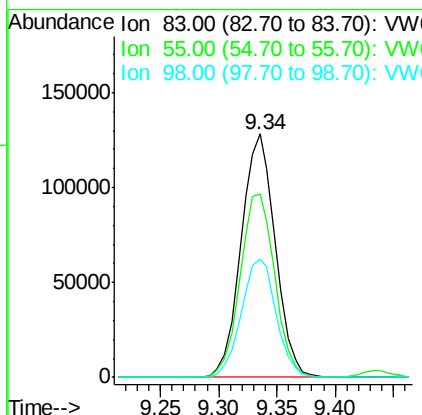
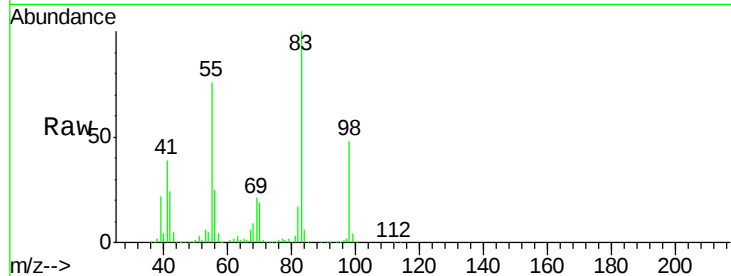
#39
Methvlcvclohexane
Concen: 49.417 ug/l
RT: 9.34 min Scan# 1219
Delta R.T. -0.00 min
Lab File: VW013346.D
Acq: 30 Sep 2019 21:46

Instrument :
MSVOA_W
ClientSampleId :
VSTDCCC050

Tot Ion	Ratio	Resp	Lower	Upper
83	100	262074		
55	75.5		60.4	90.6
98	48.5		40.0	60.0

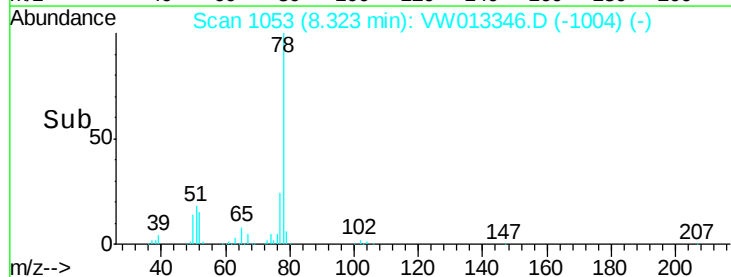
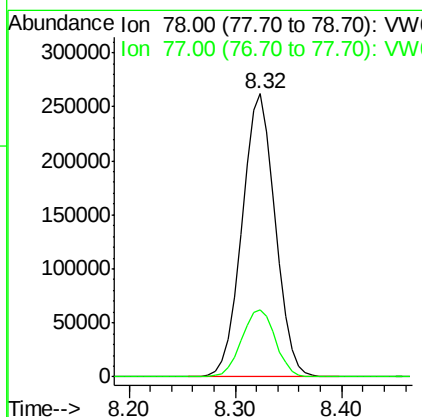
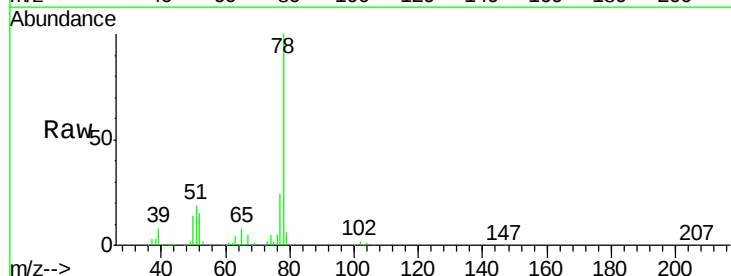
Manual Integrations
APPROVED

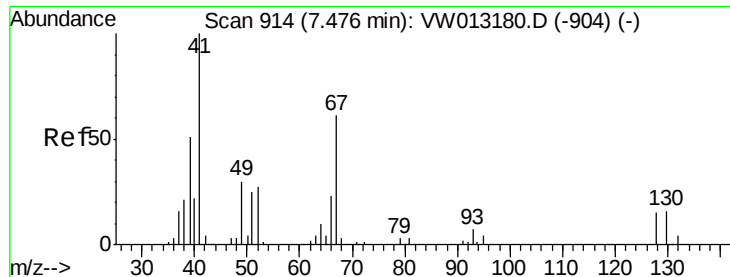
MMDadoda
10/1/2019 11:33:06 AM



#40
Benzene
Concen: 49.704 ug/l
RT: 8.32 min Scan# 1053
Delta R.T. -0.00 min
Lab File: VW013346.D
Acq: 30 Sep 2019 21:46

Tgt Ion	Ratio	Resp	Lower	Upper
78	100	572133		
77	23.8		19.1	28.7





#41

Methacrylonitrile

Concen: 55.847 ug/l

RT: 7.48 min Scan# 915

Delta R.T. 0.01 min

Lab File: VW013346.D

Acq: 30 Sep 2019 21:46

Instrument :

MSVOA_W

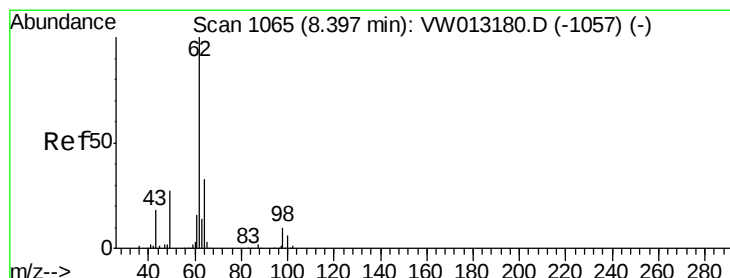
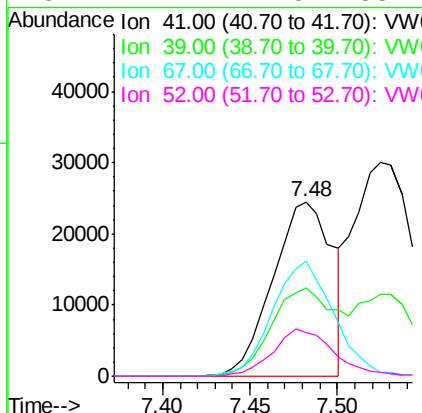
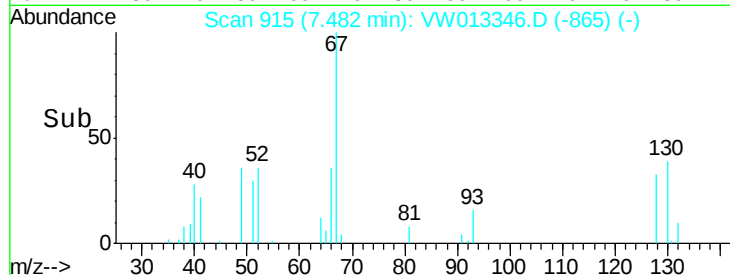
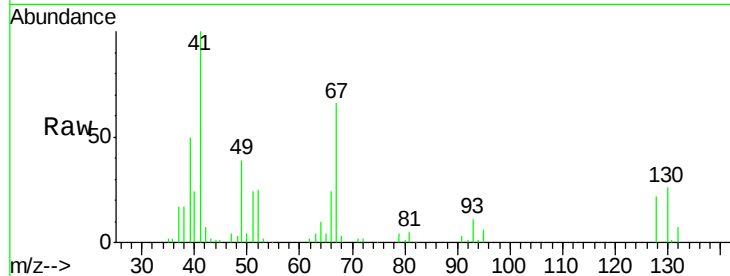
ClientSampleId :

VSTDCCC050

Tot Ion	41	Resp	58459
Ion	Ratio	Lower	Upper
41	100		
39	56.9	45.9	68.9
67	67.8	54.5	81.7
52	27.7	22.5	33.7

Manual Integrations
APPROVED

MMDadoda
10/1/2019 11:33:06 AM



#42

1,2-Dichloroethane

Concen: 48.931 ug/l

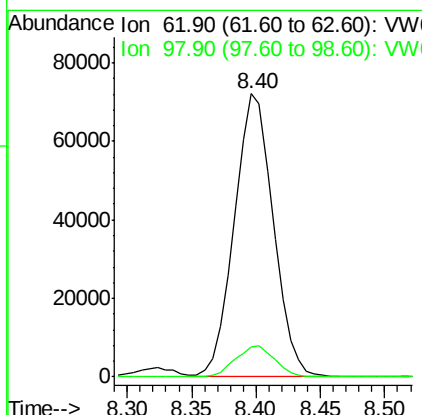
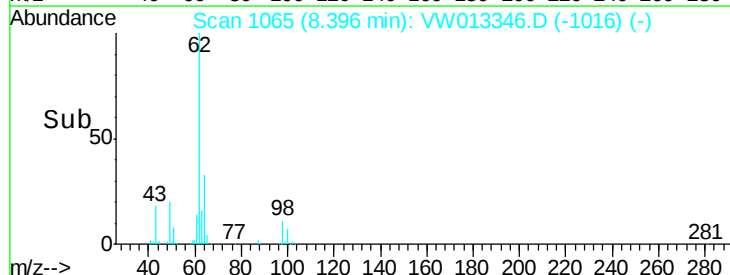
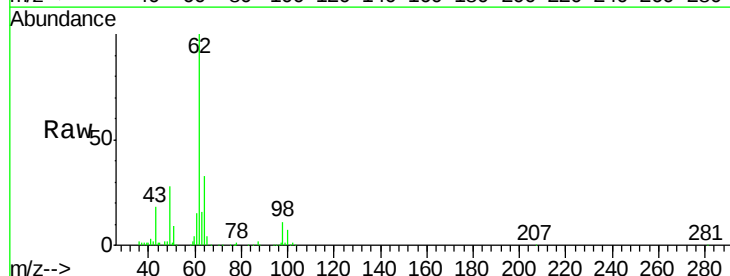
RT: 8.40 min Scan# 1065

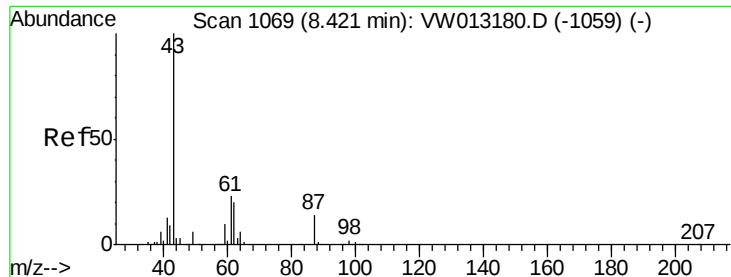
Delta R.T. -0.00 min

Lab File: VW013346.D

Acq: 30 Sep 2019 21:46

Tgt Ion	62	Resp	151407
Ion	Ratio	Lower	Upper
62	100		
98	11.1	0.0	20.6





#43

Isopropyl Acetate

Concen: 53.271 ug/l

RT: 8.42 min Scan# 1069

Delta R.T. -0.00 min

Lab File: VW013346.D

Acq: 30 Sep 2019 21:46

Instrument :

MSVOA_W

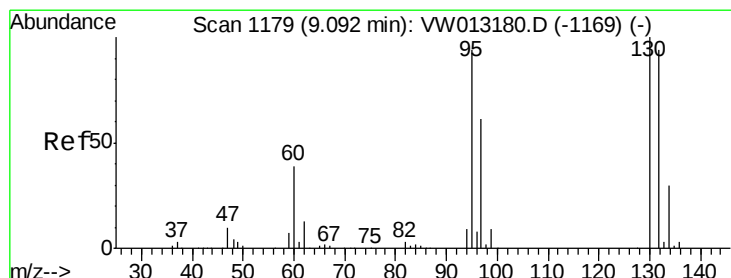
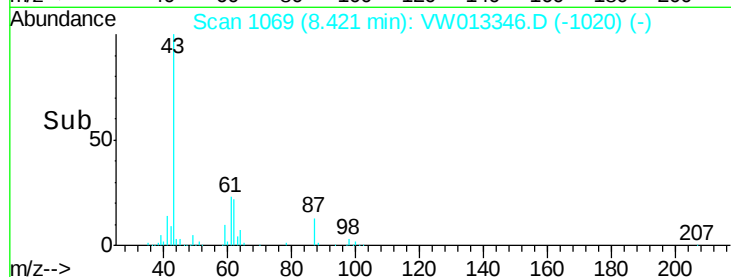
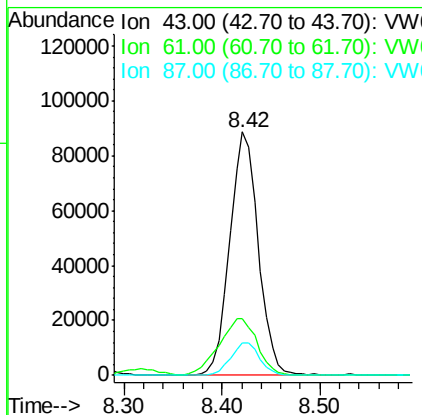
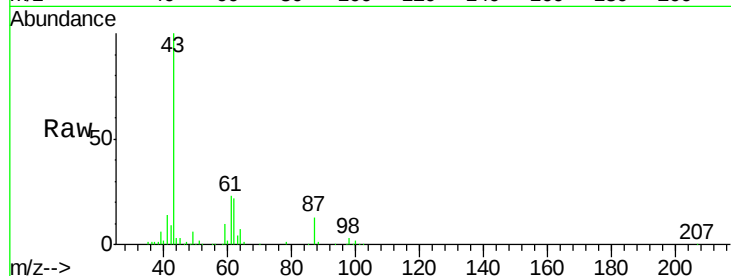
ClientSampleId :

VSTDCCC050

Tot Ion:	43	Resp:	179069
Ion	Ratio	Lower	Upper
43	100		
61	31.1	25.5	38.3
87	13.7	11.0	16.4

Manual Integrations
APPROVED

MMDadoda
10/1/2019 11:33:06 AM



#44

Trichloroethene

Concen: 50.532 ug/l

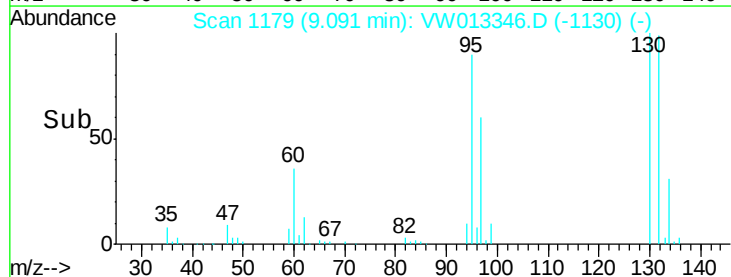
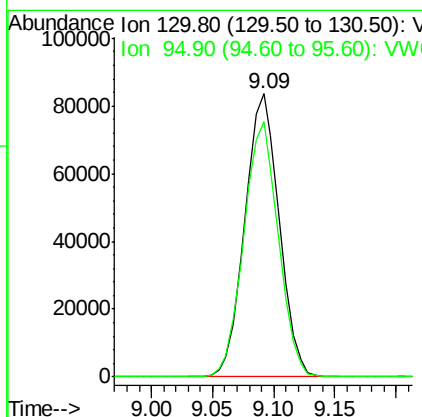
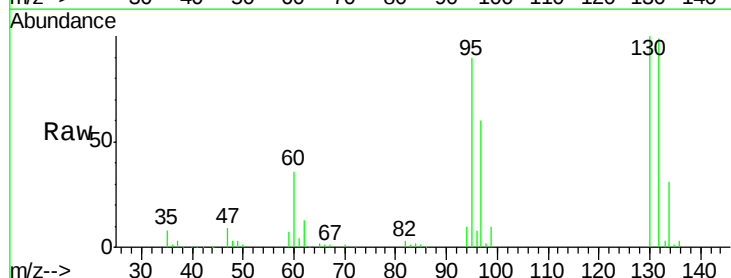
RT: 9.09 min Scan# 1179

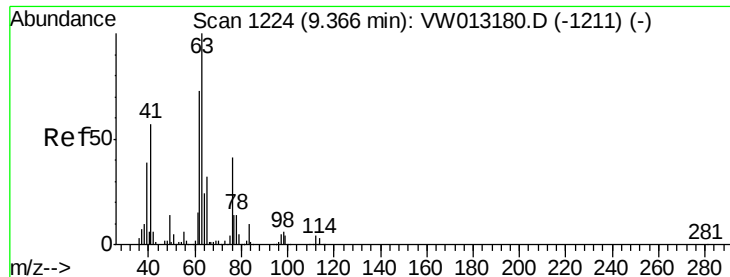
Delta R.T. -0.00 min

Lab File: VW013346.D

Acq: 30 Sep 2019 21:46

Tgt Ion:	130	Resp:	163195
Ion	Ratio	Lower	Upper
130	100		
95	90.3	0.0	188.0





#45

1,2-Dichloropropane

Concen: 50.355 ug/l

RT: 9.37 min Scan# 1224

Delta R.T. -0.00 min

Lab File: VW013346.D

Acq: 30 Sep 2019 21:46

Instrument :

MSVOA_W

ClientSampleId :

VSTDCCC050

Tot Ion: 63 Resp: 141509

Ion Ratio Lower Upper

63 100

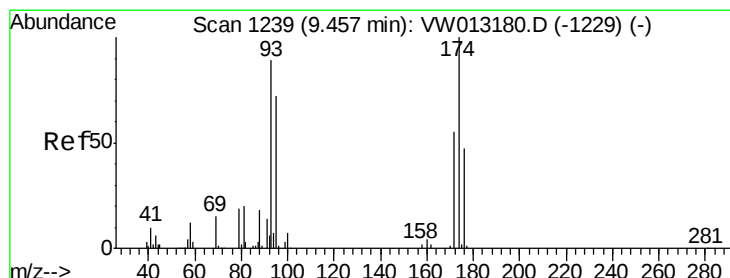
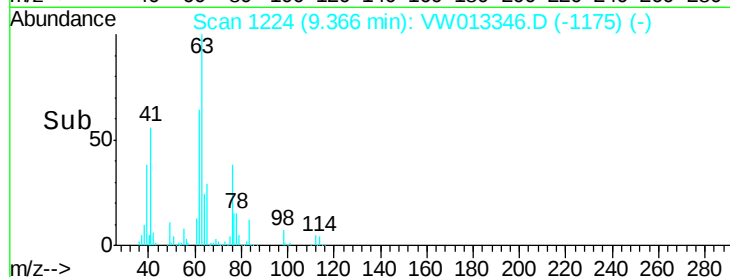
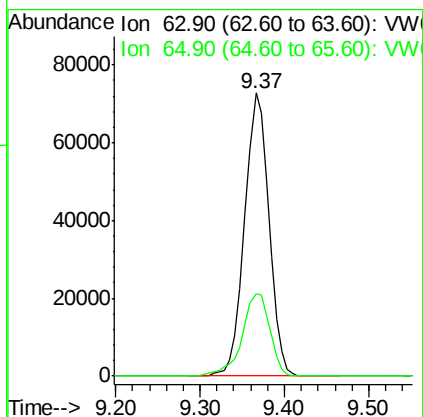
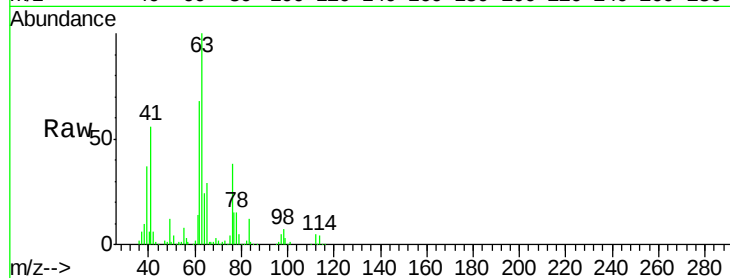
65 29.1 25.3 37.9

Manual Integrations

APPROVED

MMDadoda

10/1/2019 11:33:06 AM



#46

Dibromomethane

Concen: 52.742 ug/l

RT: 9.46 min Scan# 1239

Delta R.T. -0.00 min

Lab File: VW013346.D

Acq: 30 Sep 2019 21:46

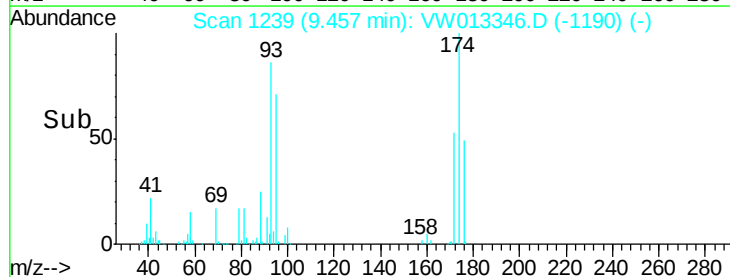
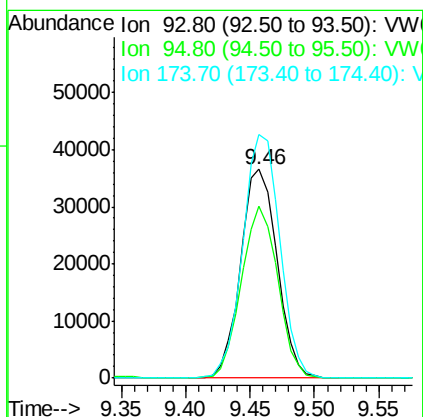
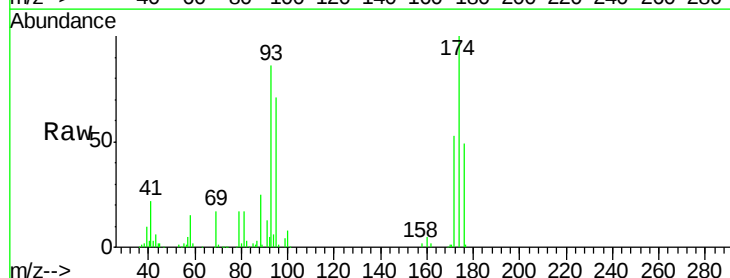
Tgt Ion: 93 Resp: 71960

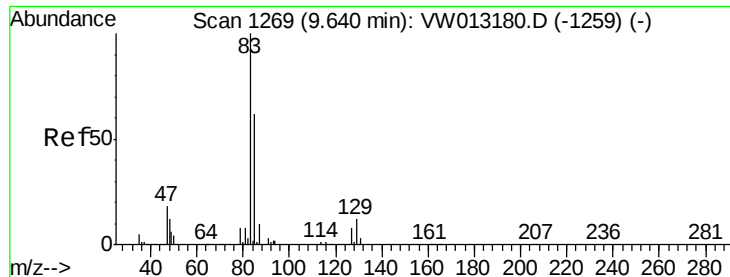
Ion Ratio Lower Upper

93 100

95 82.0 66.4 99.6

174 117.7 93.0 139.6





#47

Bromodichloromethane

Concen: 50.147 ug/l

RT: 9.64 min Scan# 1269

Delta R.T. -0.00 min

Lab File: VW013346.D

Acq: 30 Sep 2019 21:46

Instrument :

MSVOA_W

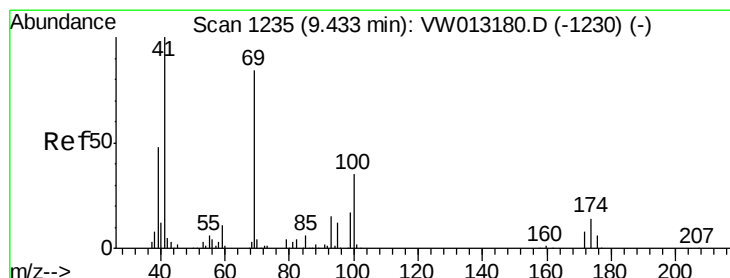
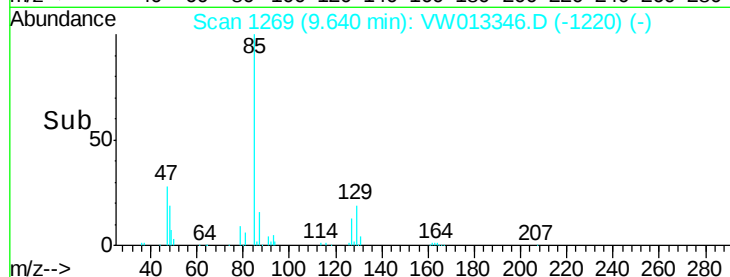
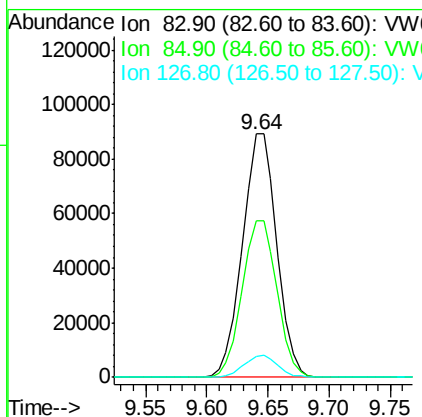
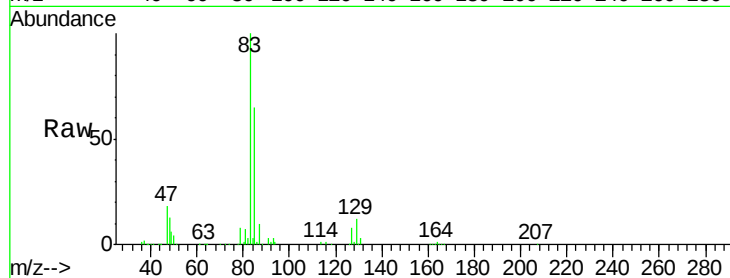
ClientSampleId :

VSTDCCC050

Tot Ion:	83	Resp:	174096
Ion	Ratio	Lower	Upper
83	100		
85	64.5	49.4	74.2
127	8.4	6.5	9.7

Manual Integrations
APPROVED

MMDadoda
10/1/2019 11:33:06 AM



#48

Methyl methacrylate

Concen: 53.207 ug/l

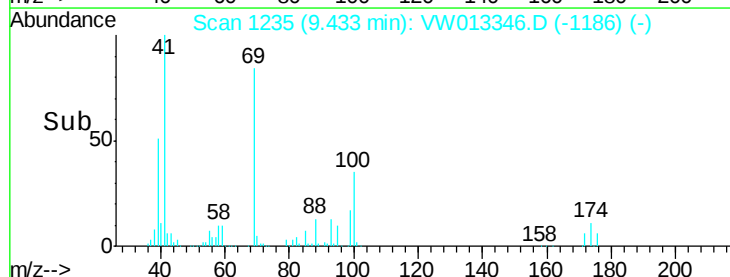
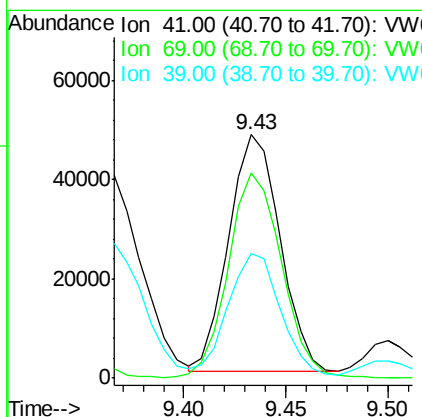
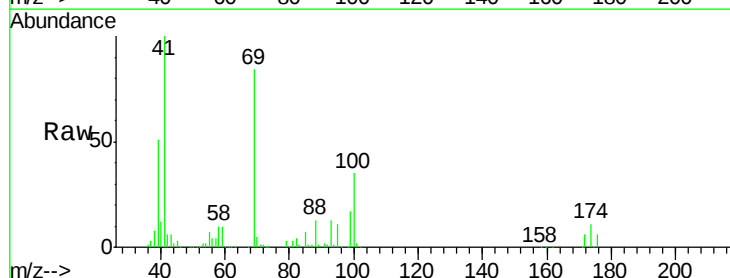
RT: 9.43 min Scan# 1235

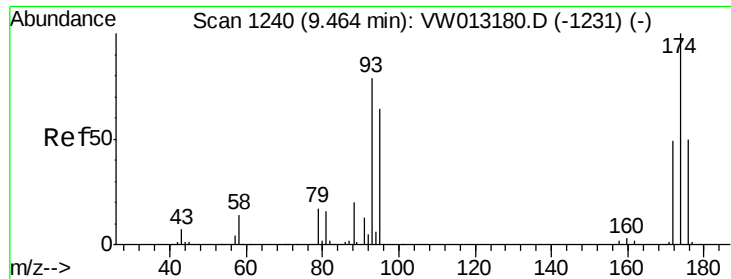
Delta R.T. -0.00 min

Lab File: VW013346.D

Acq: 30 Sep 2019 21:46

Tgt Ion:	41	Resp:	84101
Ion	Ratio	Lower	Upper
41	100		
69	89.3	69.7	104.5
39	51.9	41.1	61.7





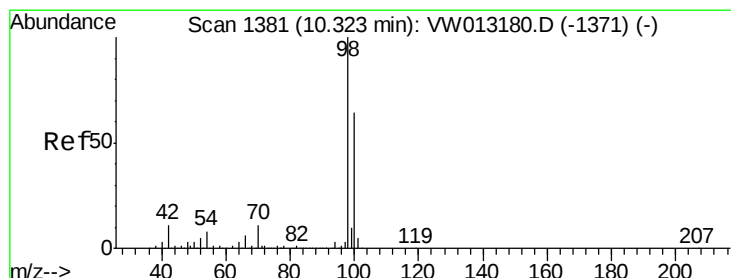
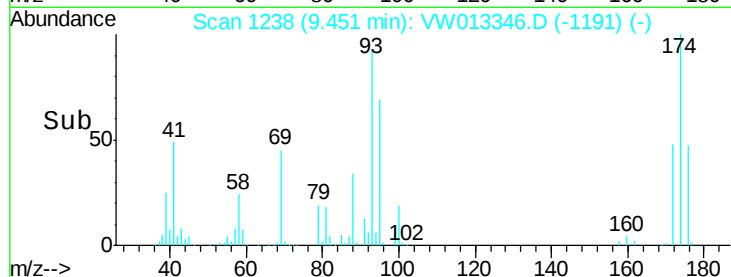
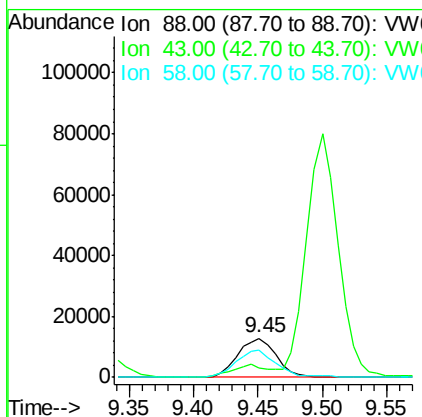
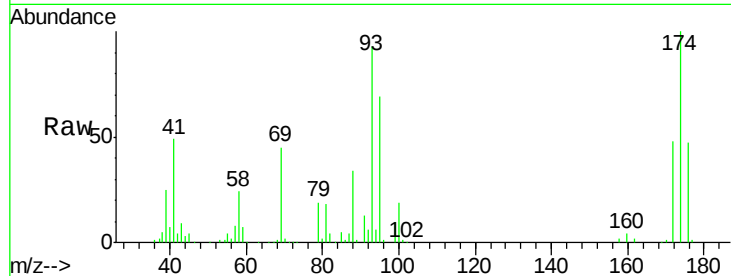
#49
1,4-Dioxane
Concen: 1295.992 ug/l
RT: 9.45 min Scan# 1238
Delta R.T. -0.01 min
Lab File: VW013346.D
Acq: 30 Sep 2019 21:46

Instrument :
MSVOA_W
ClientSampleId :
VSTDCCC050

Tot Ion	88	Resp	26542
Ion	Ratio	Lower	Upper
88	100		
43	30.0	0.0	0.0#
58	69.8	65.4	98.0

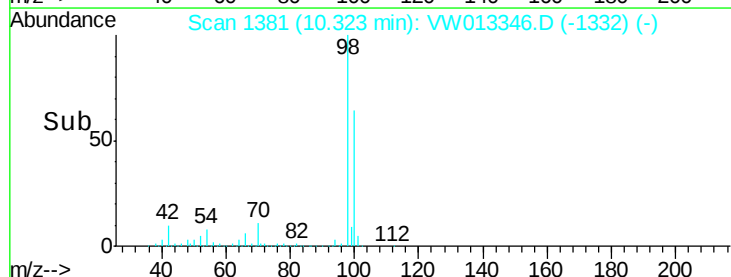
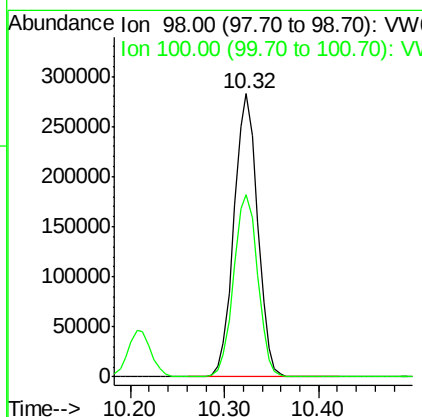
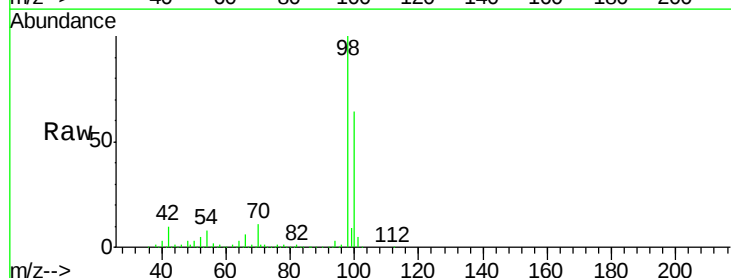
Manual Integrations
APPROVED

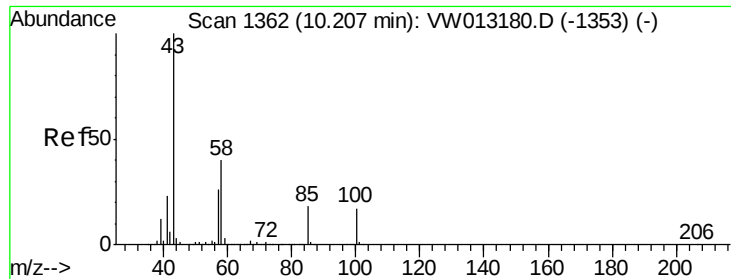
MMDadoda
10/1/2019 11:33:06 AM



#50
Toluene-d8
Concen: 50.183 ug/l
RT: 10.32 min Scan# 1381
Delta R.T. -0.00 min
Lab File: VW013346.D
Acq: 30 Sep 2019 21:46

Tgt Ion	98	Resp	492161
Ion	Ratio	Lower	Upper
98	100		
100	65.5	52.9	79.3





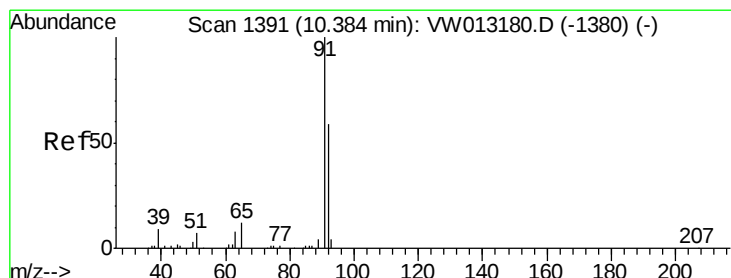
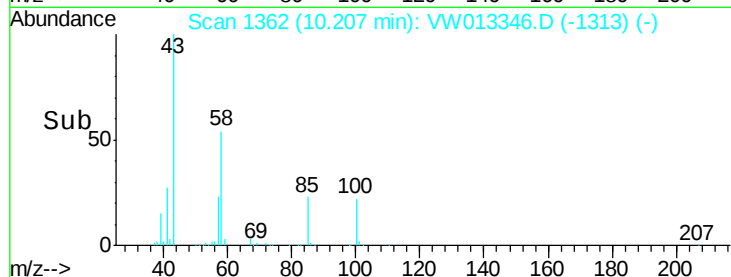
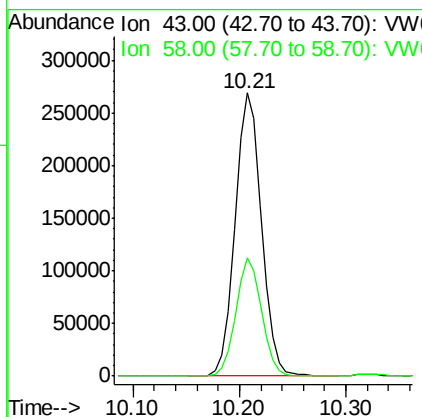
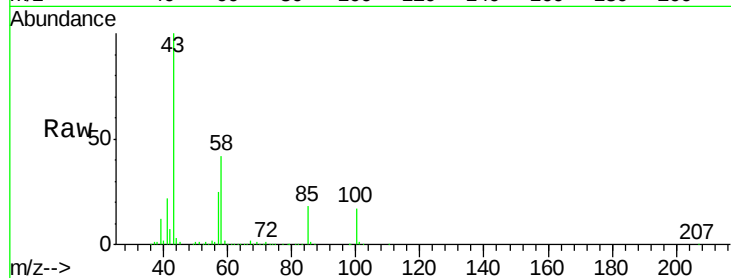
#51
 4-Methyl-2-Pentanone
 Concen: 276.588 ug/l
 RT: 10.21 min Scan# 1362
 Delta R.T. -0.00 min
 Lab File: VW013346.D
 Acq: 30 Sep 2019 21:46

Instrument :
 MSVOA_W
 ClientSampleId :
 VSTDCCC050

Tot Ion: 43 Resp: 466097
 Ion Ratio Lower Upper
 43 100
 58 41.0 31.7 47.5

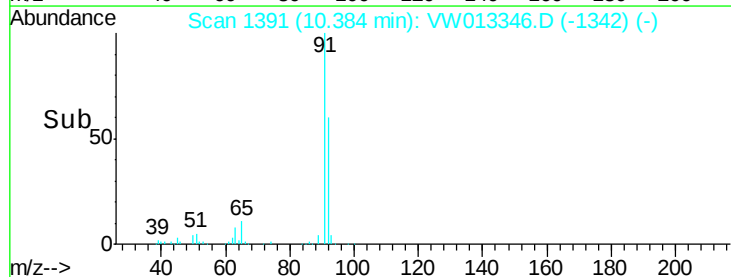
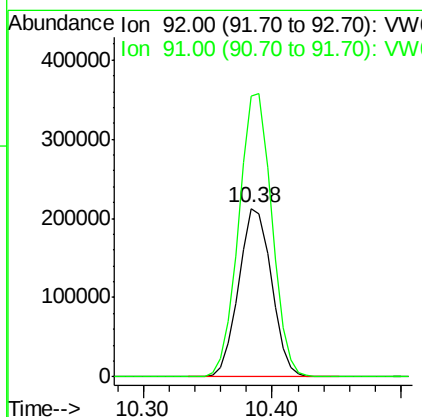
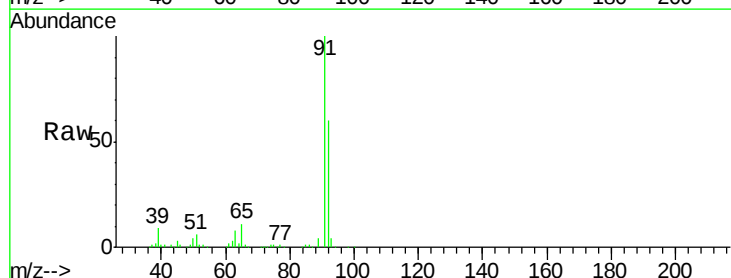
Manual Integrations
 APPROVED

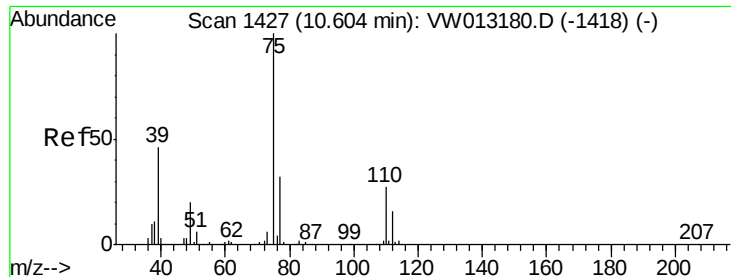
MMDadoda
 10/1/2019 11:33:06 AM



#52
 Toluene
 Concen: 50.865 ug/l
 RT: 10.38 min Scan# 1391
 Delta R.T. -0.00 min
 Lab File: VW013346.D
 Acq: 30 Sep 2019 21:46

Tgt Ion: 92 Resp: 375235
 Ion Ratio Lower Upper
 92 100
 91 169.4 135.7 203.5





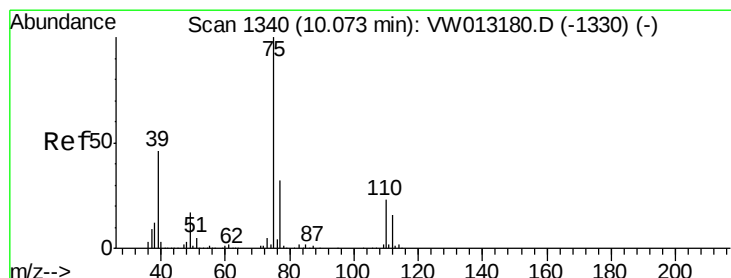
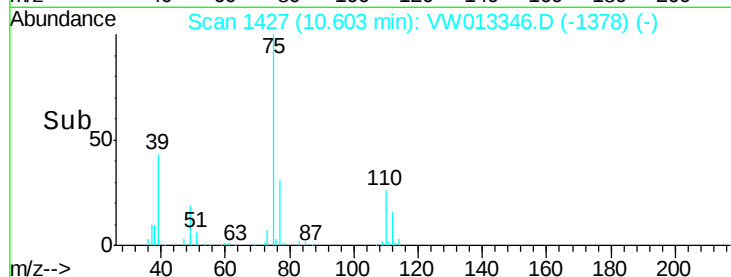
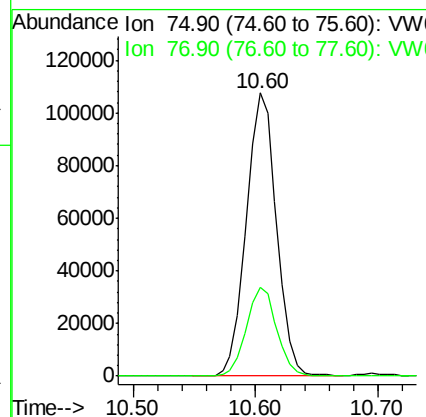
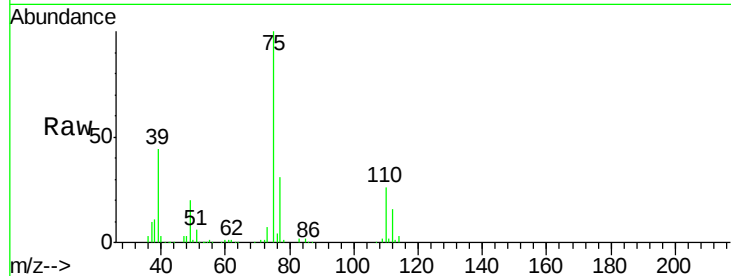
#53
t-1,3-Dichloropropene
Concen: 51.553 ug/l
RT: 10.60 min Scan# 1427
Delta R.T. -0.00 min
Lab File: VW013346.D
Acq: 30 Sep 2019 21:46

Instrument :
MSVOA_W
ClientSampleId :
VSTDCCC050

Tot Ion	Ratio	Lower	Upper
75	100		
77	31.4	25.5	38.3

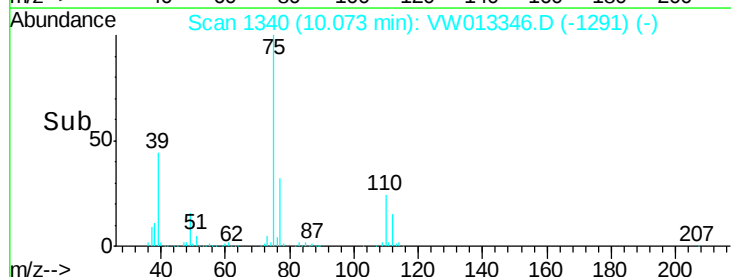
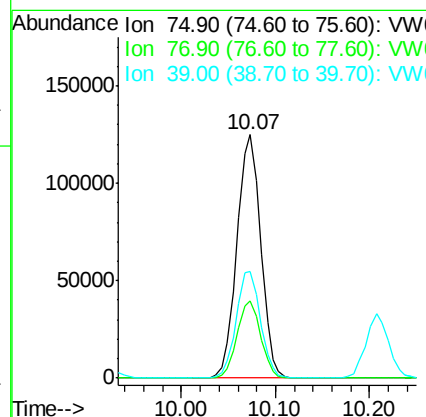
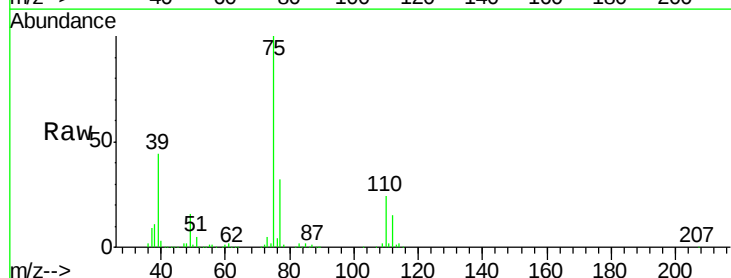
Manual Integrations
APPROVED

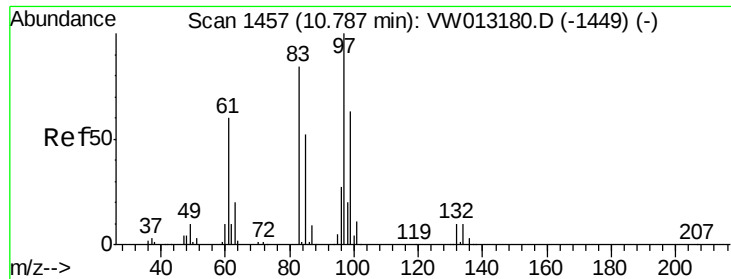
MMDadoda
10/1/2019 11:33:06 AM



#54
cis-1,3-Dichloropropene
Concen: 50.706 ug/l
RT: 10.07 min Scan# 1340
Delta R.T. -0.00 min
Lab File: VW013346.D
Acq: 30 Sep 2019 21:46

Tgt Ion	Ratio	Lower	Upper
75	100		
77	31.8	25.2	37.8
39	43.8	36.6	55.0





#55

1,1,2-Trichloroethane

Concen: 52.278 ug/l

RT: 10.79 min Scan# 1457

Delta R.T. -0.00 min

Lab File: VW013346.D

Acq: 30 Sep 2019 21:46

Instrument :

MSVOA_W

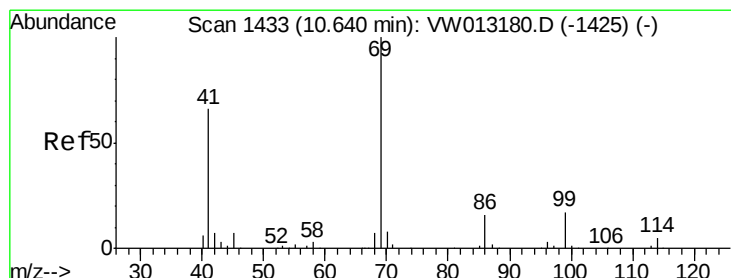
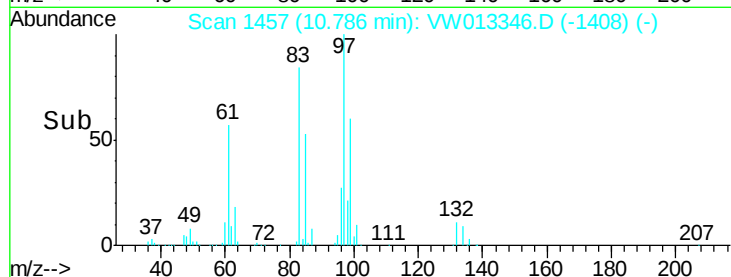
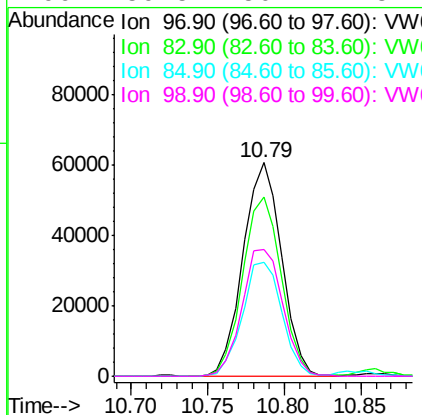
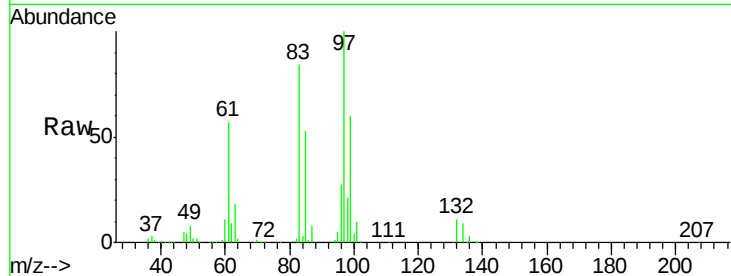
ClientSampleId :

VSTDCCC050

Tot Ion:	97	Resp:	106610
Ion	Ratio	Lower	Upper
97	100		
83	84.0	67.6	101.4
85	53.4	41.9	62.9
99	59.5	50.1	75.1

Manual Integrations
APPROVED

MMDadoda
10/1/2019 11:33:06 AM



#56

Ethyl methacrylate

Concen: 54.589 ug/l

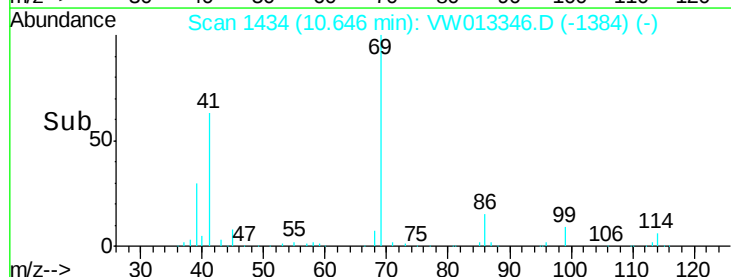
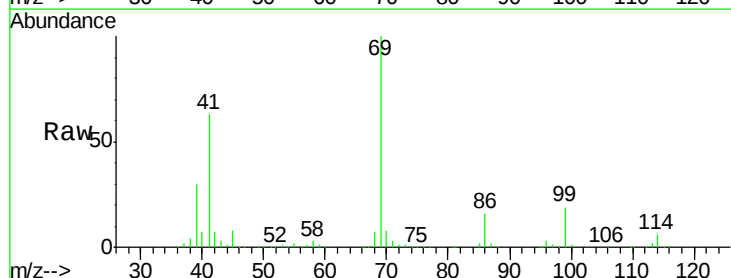
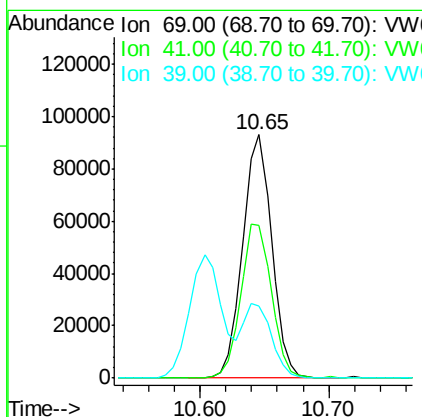
RT: 10.65 min Scan# 1434

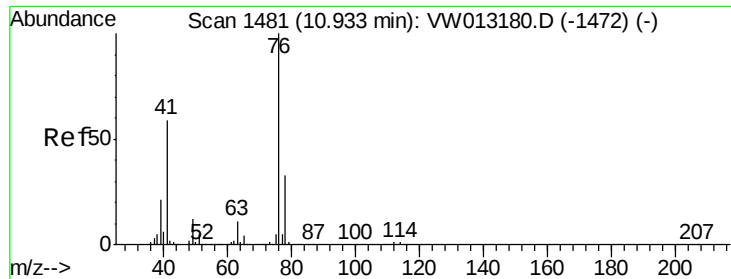
Delta R.T. 0.01 min

Lab File: VW013346.D

Acq: 30 Sep 2019 21:46

Tgt Ion:	69	Resp:	145692
Ion	Ratio	Lower	Upper
69	100		
41	66.9	53.9	80.9
39	29.5	23.8	35.6





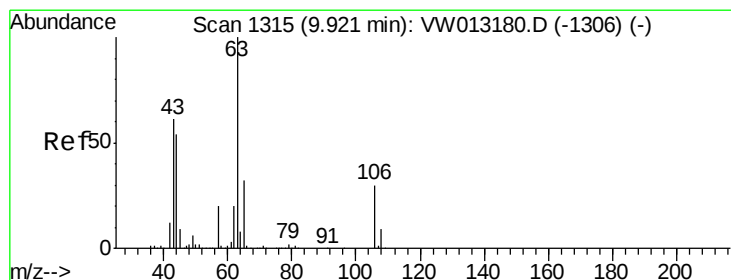
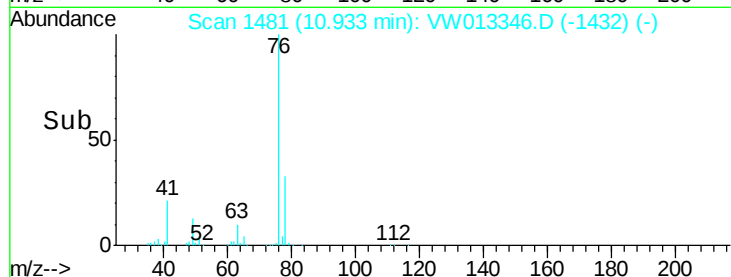
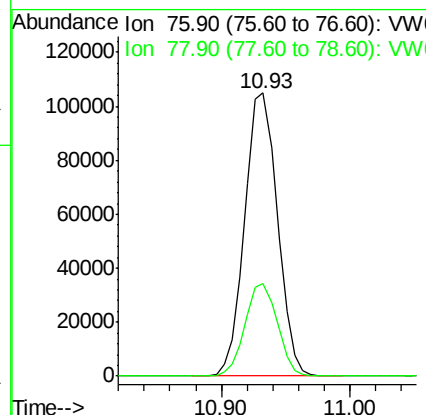
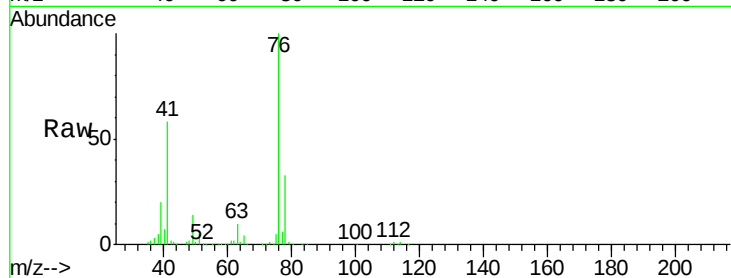
#57
 1,3-Dichloropropane
 Concen: 51.833 ug/l
 RT: 10.93 min Scan# 1481
 Delta R.T. -0.00 min
 Lab File: VW013346.D
 Acq: 30 Sep 2019 21:46

Instrument :
 MSVOA_W
 ClientSampleId :
 VSTDCCC050

Tot Ion: 76 Resp: 184456
 Ion Ratio Lower Upper
 76 100
 78 32.3 25.5 38.3

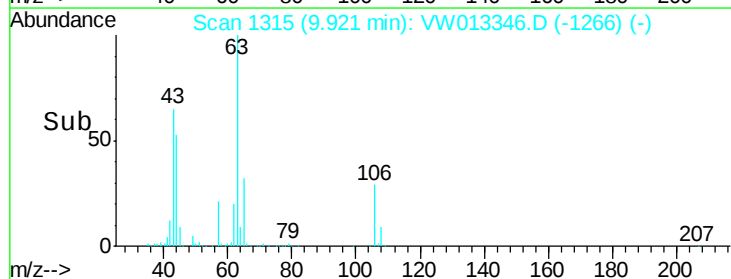
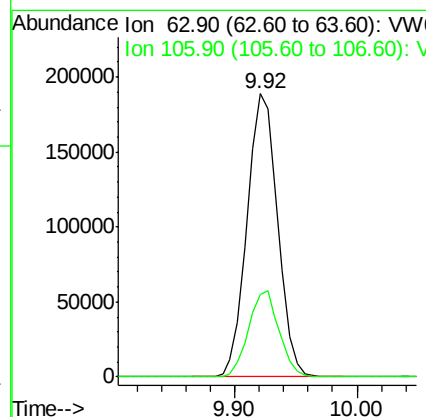
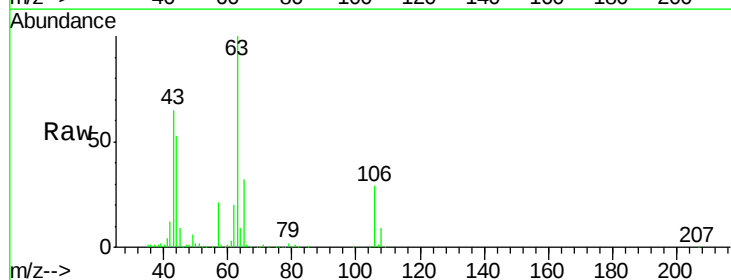
Manual Integrations
 APPROVED

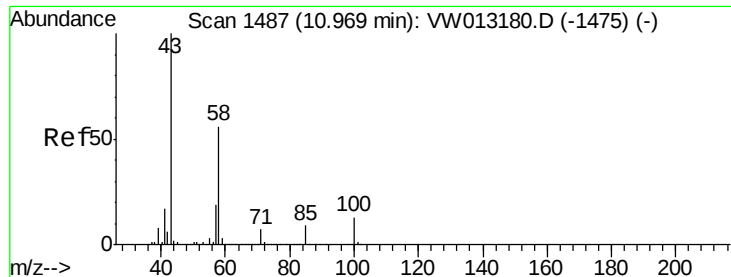
MMDadoda
 10/1/2019 11:33:06 AM



#58
 2-Chloroethyl Vinyl ether
 Concen: 265.816 ug/l
 RT: 9.92 min Scan# 1315
 Delta R.T. -0.00 min
 Lab File: VW013346.D
 Acq: 30 Sep 2019 21:46

Tgt Ion: 63 Resp: 328428
 Ion Ratio Lower Upper
 63 100
 106 30.3 23.4 35.0





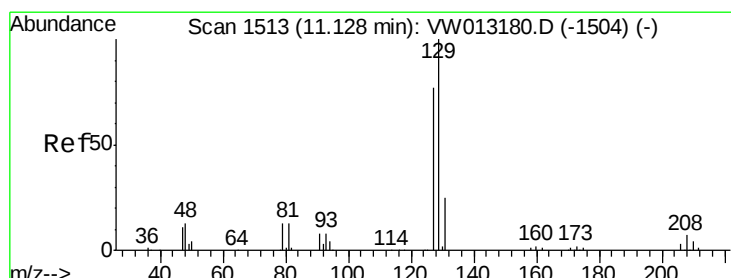
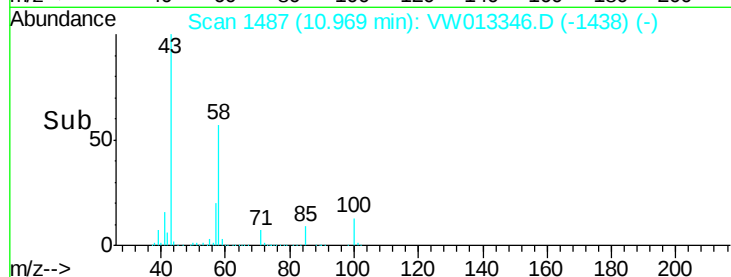
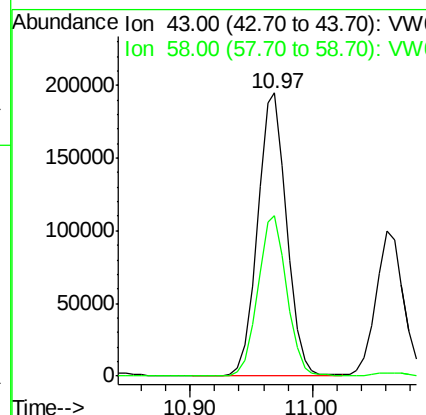
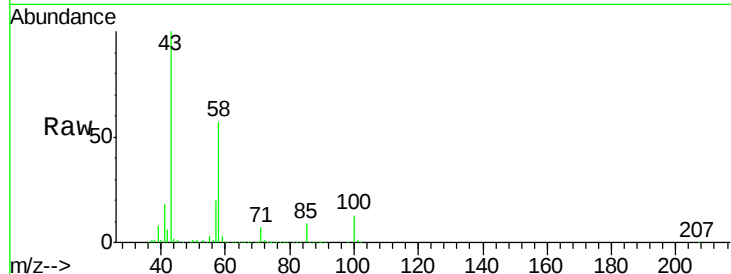
#59
2-Hexanone
Concen: 277.239 ug/l
RT: 10.97 min Scan# 1487
Delta R.T. -0.00 min
Lab File: VW013346.D
Acq: 30 Sep 2019 21:46

Instrument :
MSVOA_W
ClientSampleId :
VSTDCCC050

Tot Ion: 43 Resp: 321428
Ion Ratio Lower Upper
43 100
58 56.5 28.1 84.2

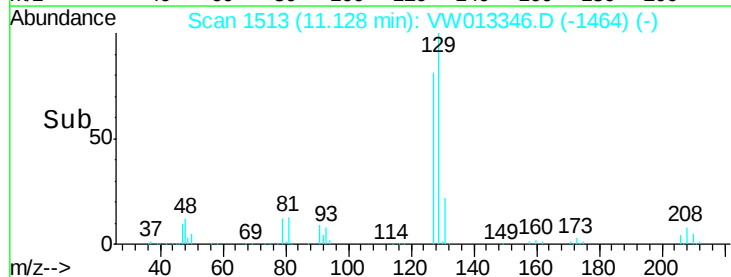
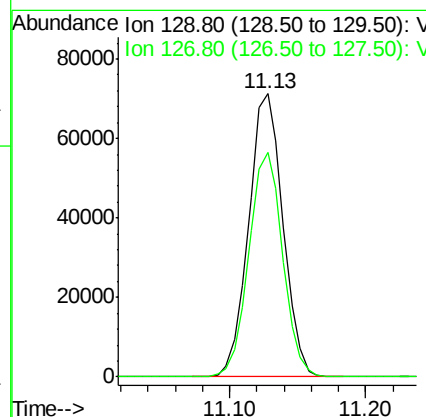
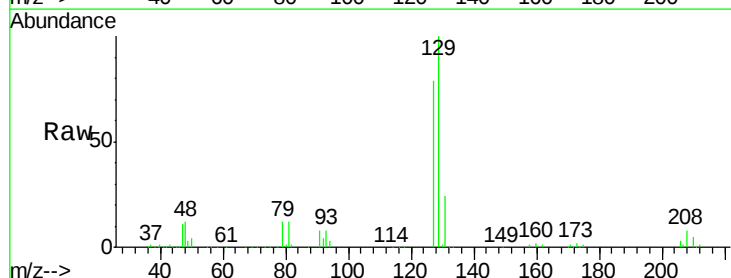
Manual Integrations
APPROVED

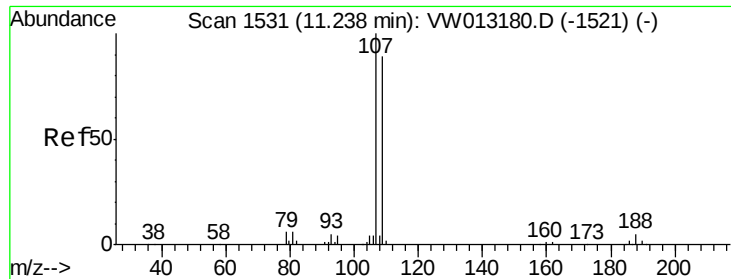
MMDadoda
10/1/2019 11:33:06 AM



#60
Dibromochloromethane
Concen: 54.433 ug/l
RT: 11.13 min Scan# 1513
Delta R.T. -0.00 min
Lab File: VW013346.D
Acq: 30 Sep 2019 21:46

Tgt Ion: 129 Resp: 126044
Ion Ratio Lower Upper
129 100
127 78.1 38.8 116.4





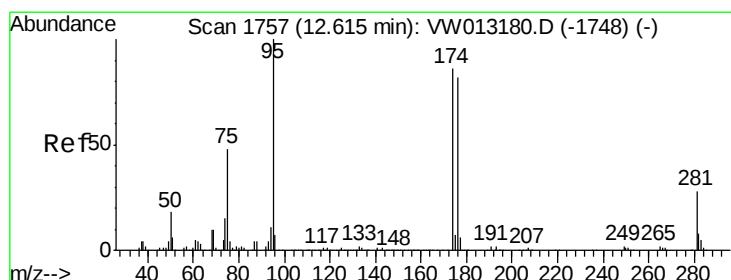
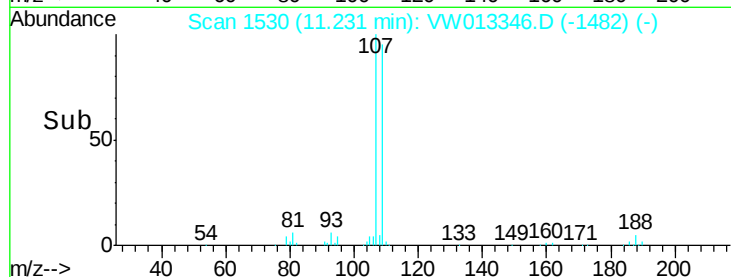
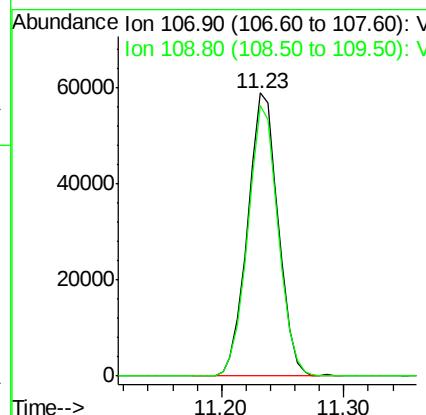
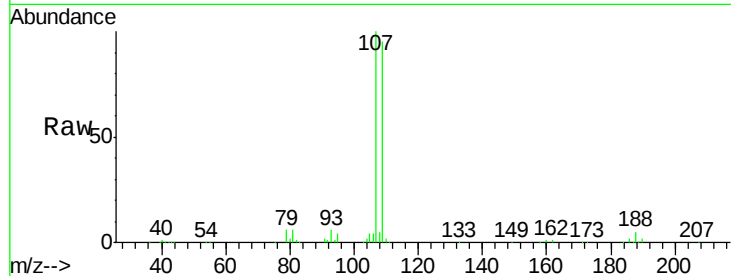
#61
 1,2-Dibromoethane
 Concen: 52.813 ug/l
 RT: 11.23 min Scan# 1530
 Delta R.T. -0.01 min
 Lab File: VW013346.D
 Acq: 30 Sep 2019 21:46

Instrument :
 MSVOA_W
 ClientSampleId :
 VSTDCCC050

Tot Ion	Ratio	Lower	Upper
107	100		
109	94.8	75.2	112.8

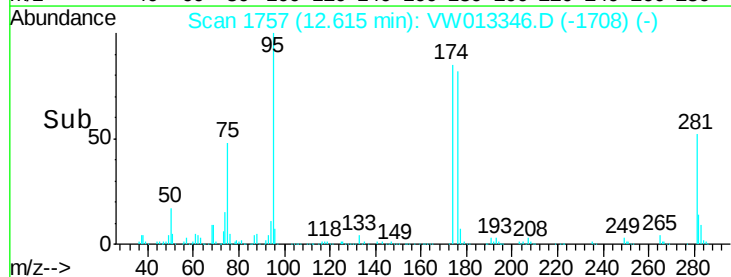
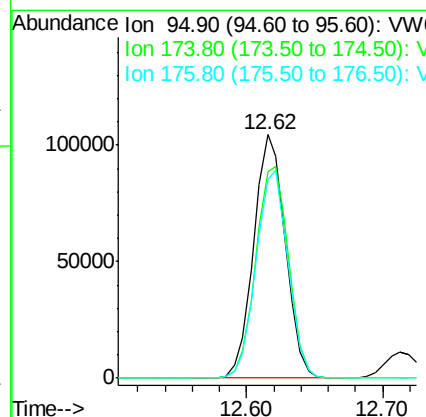
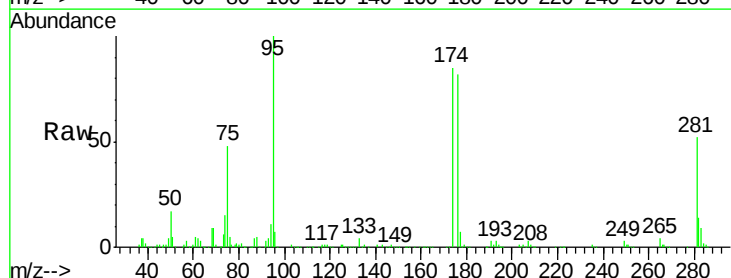
Manual Integrations
 APPROVED

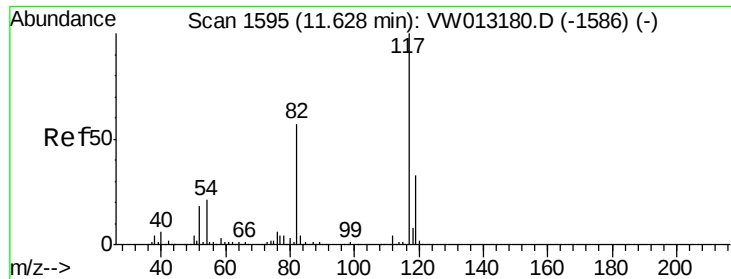
MMDadoda
 10/1/2019 11:33:06 AM



#62
 4-Bromofluorobenzene
 Concen: 50.844 ug/l
 RT: 12.62 min Scan# 1757
 Delta R.T. -0.00 min
 Lab File: VW013346.D
 Acq: 30 Sep 2019 21:46

Tgt Ion	Ratio	Lower	Upper
95	100		
174	90.2	0.0	178.4
176	86.5	0.0	172.2





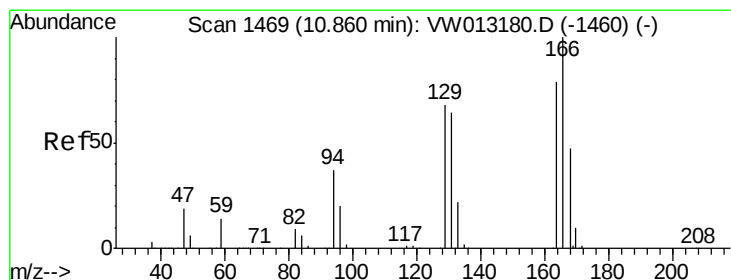
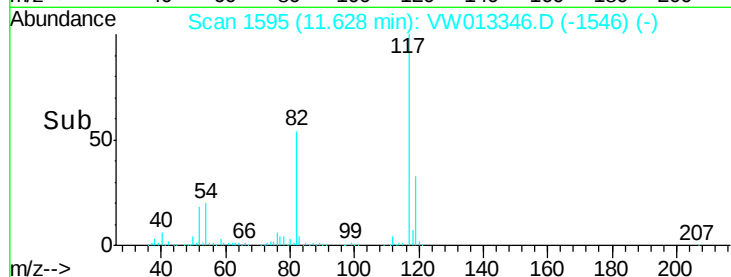
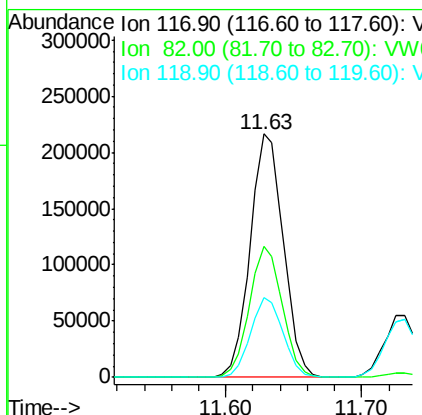
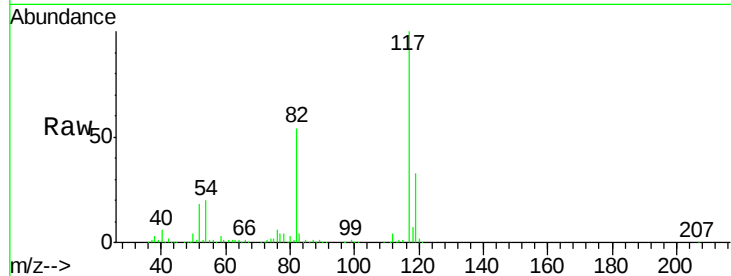
#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.63 min Scan# 1595
Delta R.T. -0.00 min
Lab File: VW013346.D
Acq: 30 Sep 2019 21:46

Instrument :
MSVOA_W
ClientSampleId :
VSTDCCC050

Tot Ion	Ratio	Resp	Lower	Upper
117	100	370935		
82	53.9		45.9	68.9
119	32.9		26.2	39.2

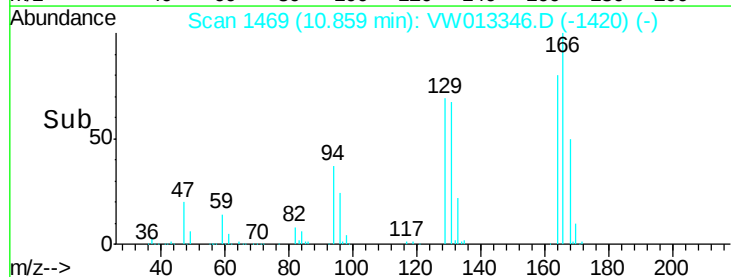
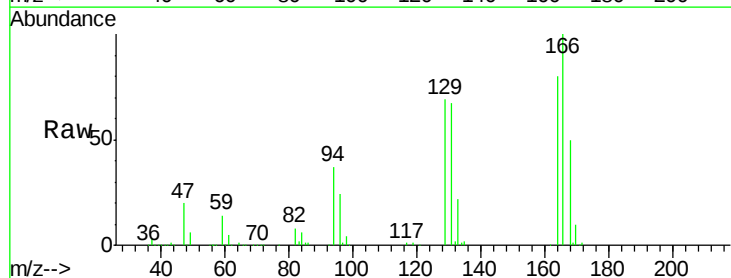
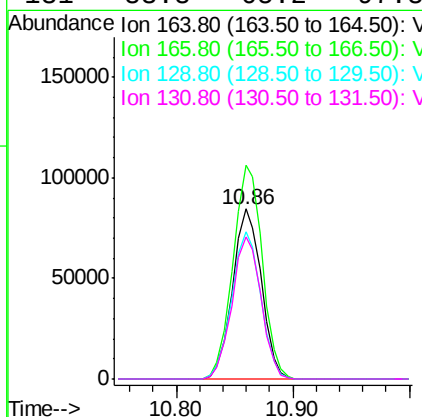
Manual Integrations
APPROVED

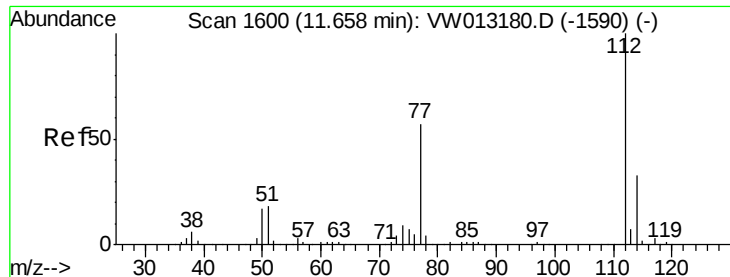
MMDadoda
10/1/2019 11:33:06 AM



#64
Tetrachloroethene
Concen: 51.717 ug/l
RT: 10.86 min Scan# 1469
Delta R.T. -0.00 min
Lab File: VW013346.D
Acq: 30 Sep 2019 21:46

Tgt Ion	Ratio	Resp	Lower	Upper
164	100	145553		
166	125.7		101.2	151.8
129	86.6		68.8	103.2
131	83.8		65.2	97.8





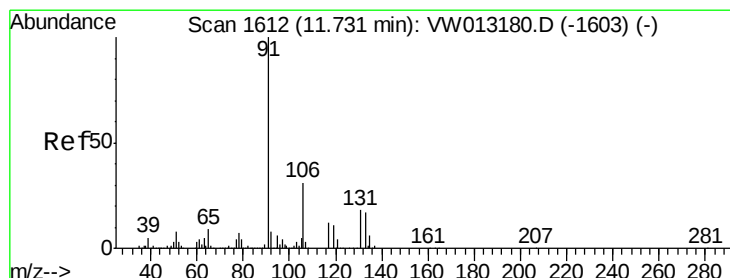
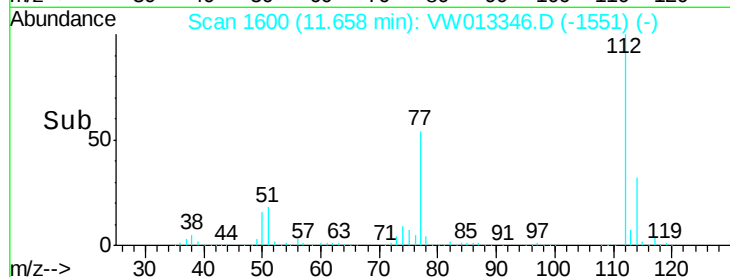
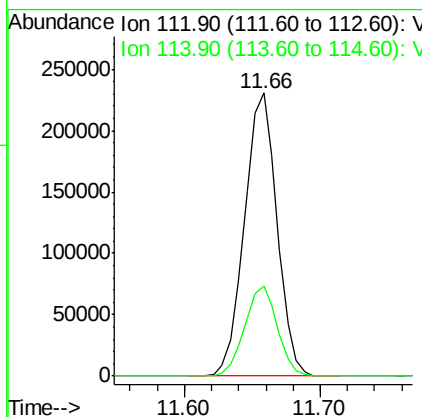
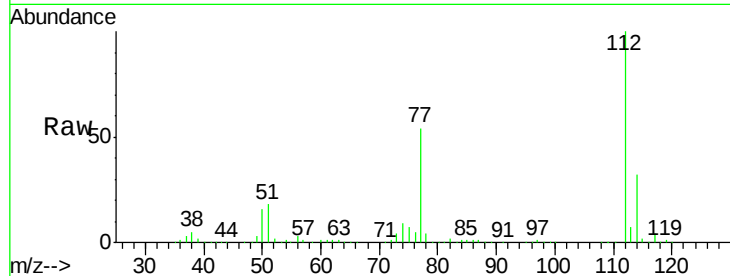
#65
Chlorobenzene
Concen: 49.792 ug/l
RT: 11.66 min Scan# 1600
Delta R.T. -0.00 min
Lab File: VW013346.D
Acq: 30 Sep 2019 21:46

Instrument :
MSVOA_W
ClientSampleId :
VSTDCCC050

Tot Ion:112 Resp: 385681
Ion Ratio Lower Upper
112 100
114 31.8 26.5 39.7

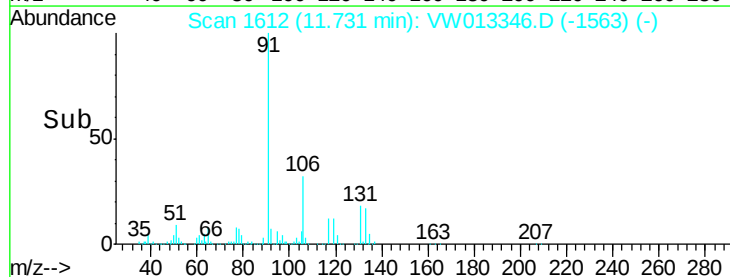
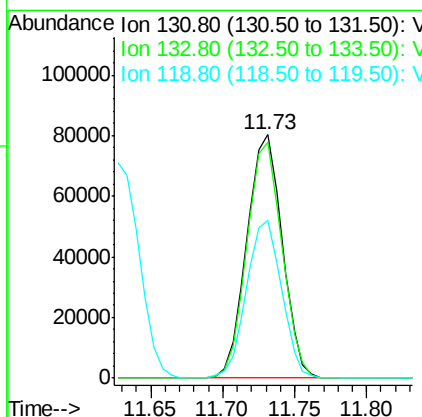
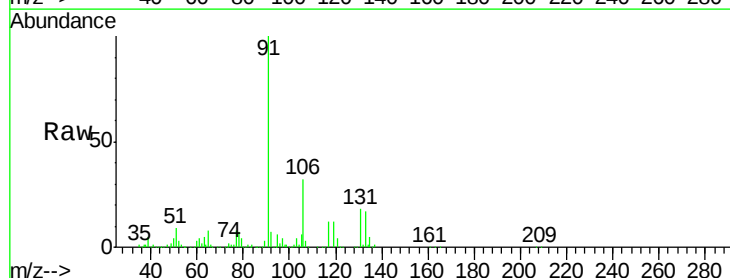
Manual Integrations
APPROVED

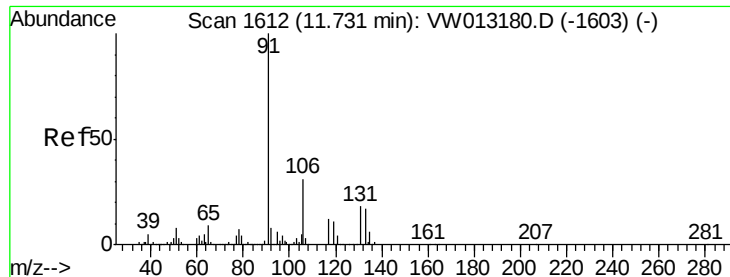
MMDadoda
10/1/2019 11:33:06 AM



#66
1,1,1,2-Tetrachloroethane
Concen: 51.573 ug/l
RT: 11.73 min Scan# 1612
Delta R.T. -0.00 min
Lab File: VW013346.D
Acq: 30 Sep 2019 21:46

Tgt Ion:131 Resp: 136475
Ion Ratio Lower Upper
131 100
133 96.3 47.5 142.6
119 64.3 32.5 97.5





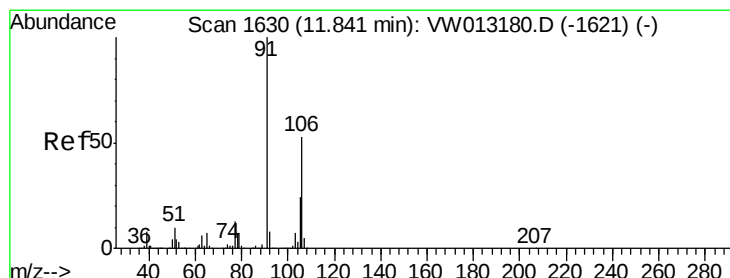
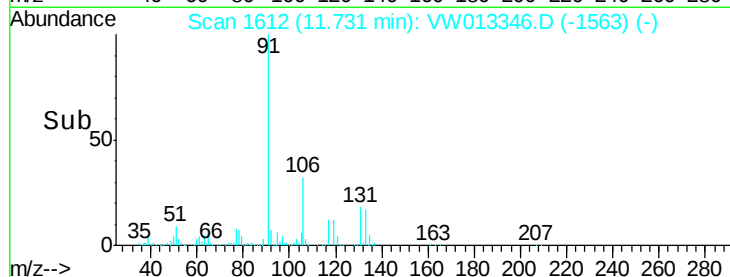
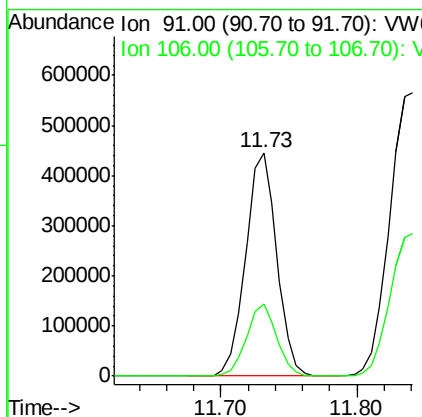
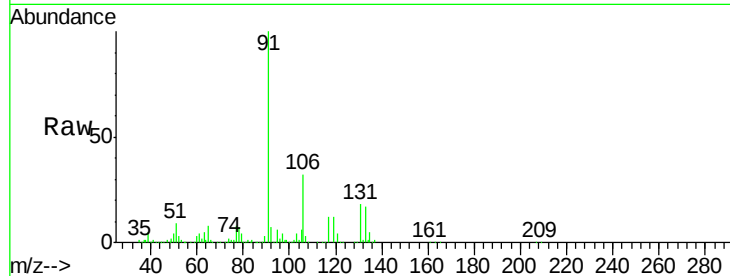
#67
Ethyl Benzene
Concen: 50.689 ug/l
RT: 11.73 min Scan# 1612
Delta R.T. -0.00 min
Lab File: VW013346.D
Acq: 30 Sep 2019 21:46

Instrument :
MSVOA_W
ClientSampleId :
VSTDCCC050

Tot Ion: 91 Resp: 711406
Ion Ratio Lower Upper
91 100
106 32.3 24.9 37.3

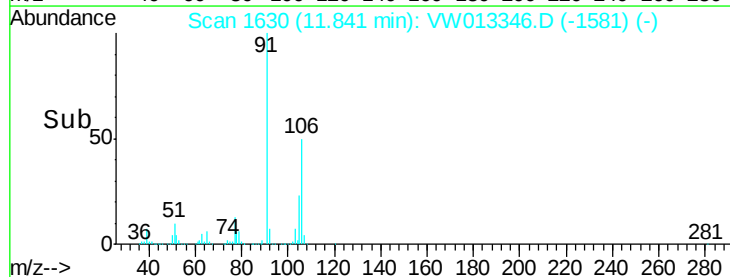
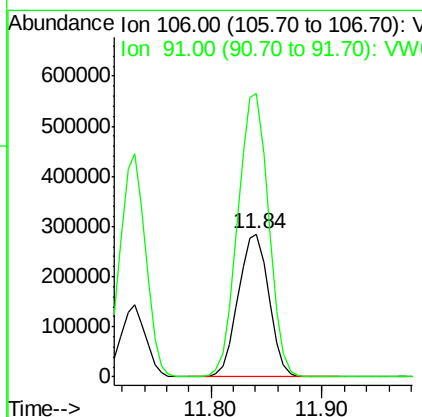
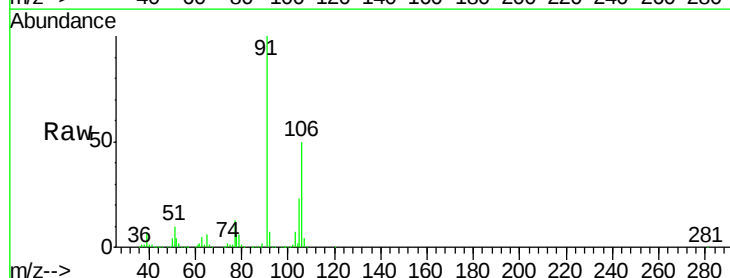
Manual Integrations
APPROVED

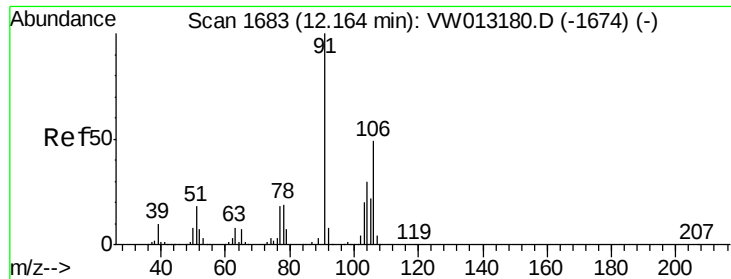
MMDadoda
10/1/2019 11:33:06 AM



#68
m/p-Xylenes
Concen: 101.947 ug/l
RT: 11.84 min Scan# 1630
Delta R.T. -0.00 min
Lab File: VW013346.D
Acq: 30 Sep 2019 21:46

Tgt Ion: 106 Resp: 545219
Ion Ratio Lower Upper
106 100
91 198.9 157.9 236.9





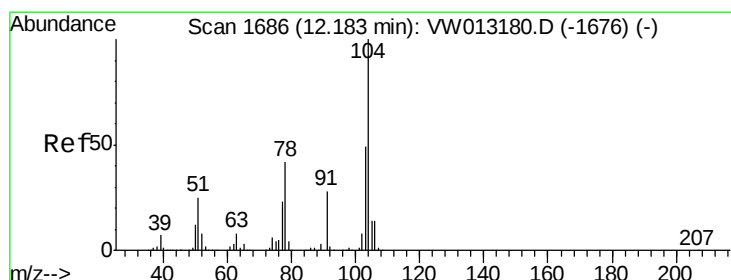
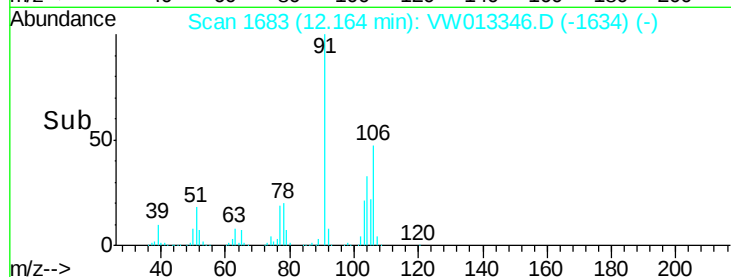
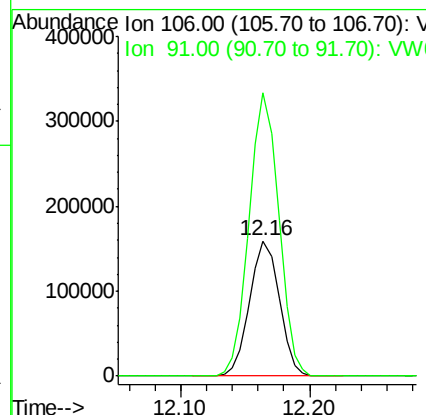
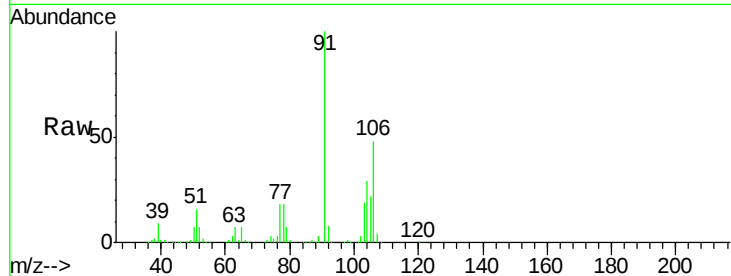
#69
o-Xylene
Concen: 51.020 ug/l
RT: 12.16 min Scan# 1683
Delta R.T. -0.00 min
Lab File: VW013346.D
Acq: 30 Sep 2019 21:46

Instrument :
MSVOA_W
ClientSampleId :
VSTDCCC050

Tot Ion	Ratio	Resp	Lower	Upper
106	100	253685		
91	209.1	106.5	319.5	

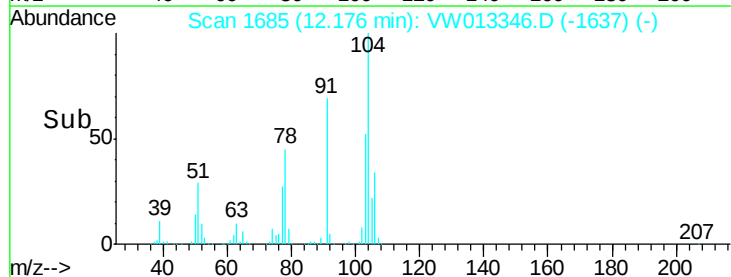
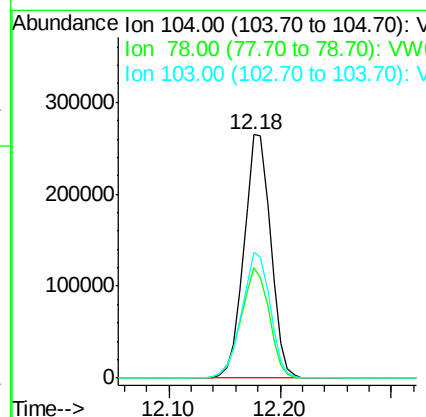
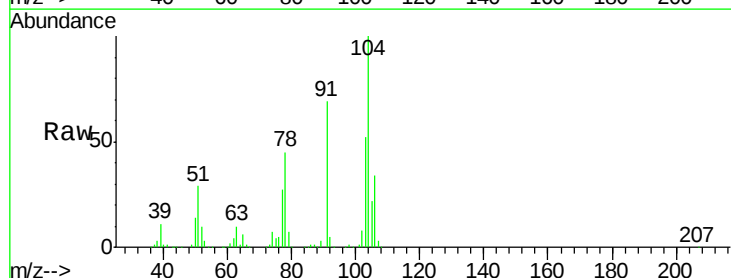
Manual Integrations
APPROVED

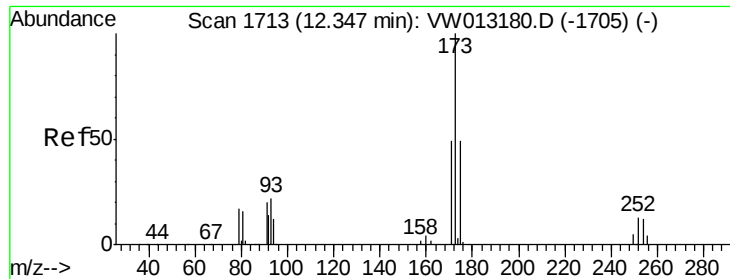
MMDadoda
10/1/2019 11:33:06 AM



#70
Styrene
Concen: 51.696 ug/l
RT: 12.18 min Scan# 1685
Delta R.T. -0.01 min
Lab File: VW013346.D
Acq: 30 Sep 2019 21:46

Tgt Ion	Ratio	Resp	Lower	Upper
104	100	441292		
78	47.7	38.4	57.6	
103	54.7	43.3	64.9	





#71

Bromoform

Concen: 55.393 ug/l

RT: 12.35 min Scan# 1713

Delta R.T. -0.00 min

Lab File: VW013346.D

Acq: 30 Sep 2019 21:46

Instrument :

MSVOA_W

ClientSampleId :

VSTDCCC050

Tot Ion:173 Resp: 77440

Ion Ratio Lower Upper

173 100

175 49.0 24.3 73.0

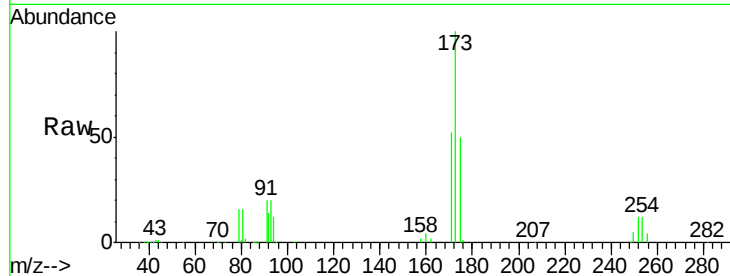
254 0.0 0.1 0.1#

Manual Integrations

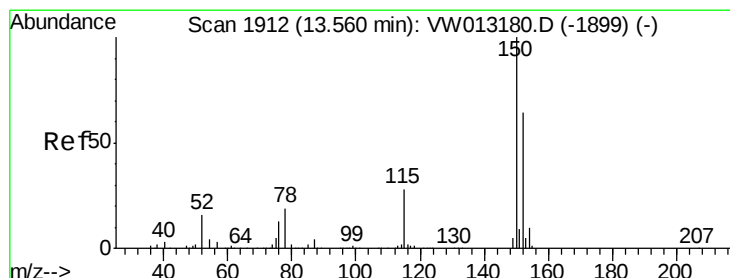
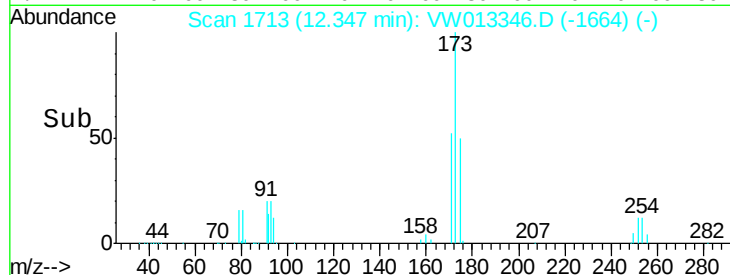
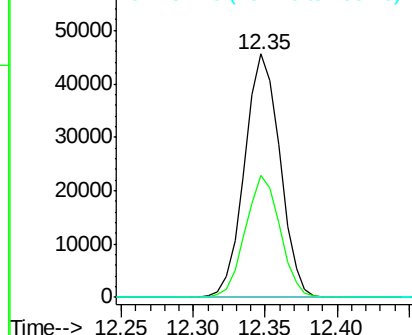
APPROVED

MMDadoda

10/1/2019 11:33:06 AM



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



#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

RT: 13.56 min Scan# 1912

Delta R.T. -0.00 min

Lab File: VW013346.D

Acq: 30 Sep 2019 21:46

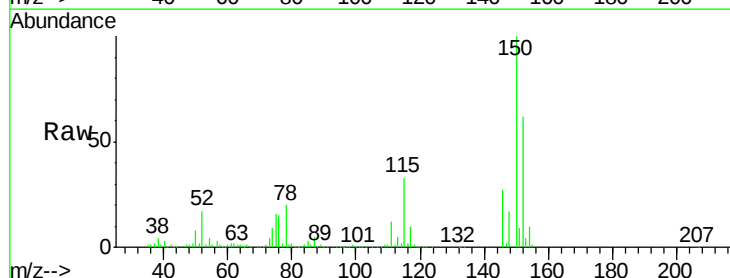
Tgt Ion:152 Resp: 191601

Ion Ratio Lower Upper

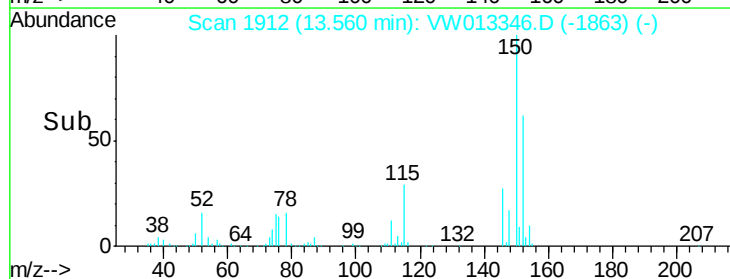
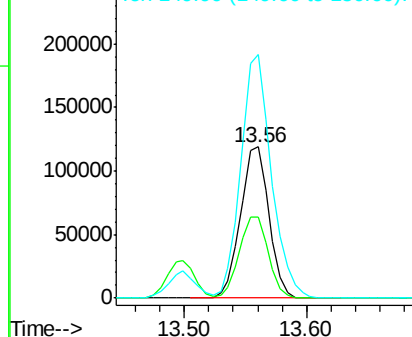
152 100

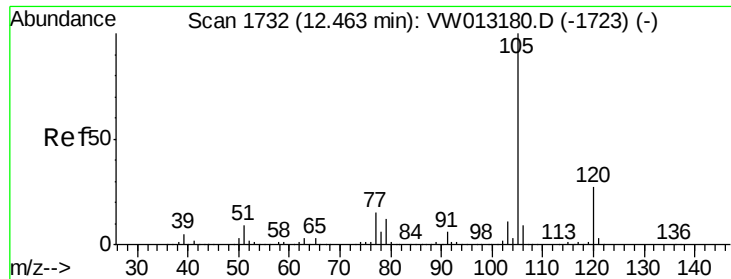
115 55.0 27.3 81.9

150 173.5 0.0 349.0



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: 50.120 ug/l

RT: 12.46 min Scan# 1732

Delta R.T. -0.00 min

Lab File: VW013346.D

Acq: 30 Sep 2019 21:46

Instrument :

MSVOA_W

ClientSampleId :

VSTDCCC050

Tot Ion:105 Resp: 709382

Ion Ratio Lower Upper

105 100

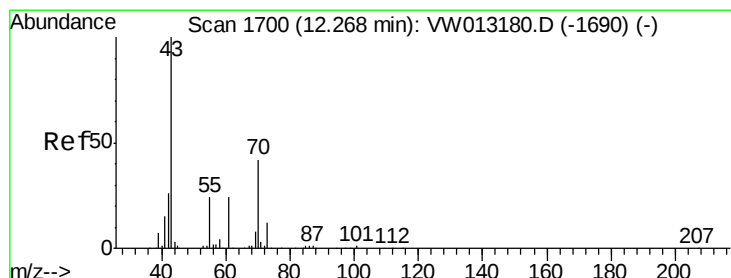
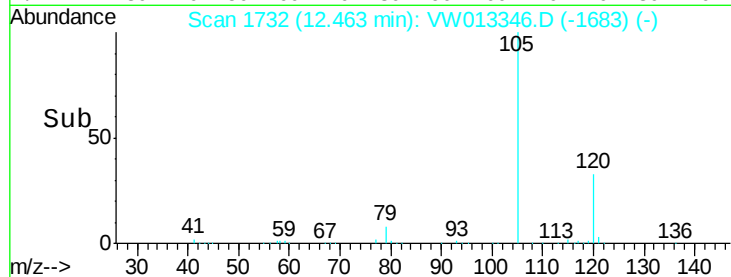
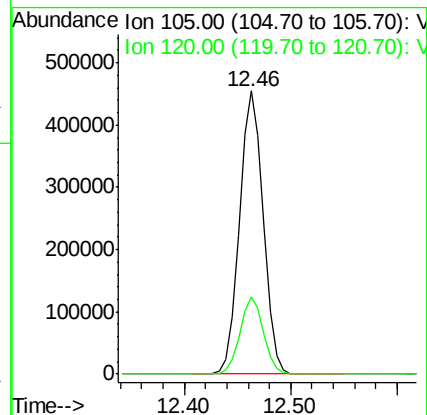
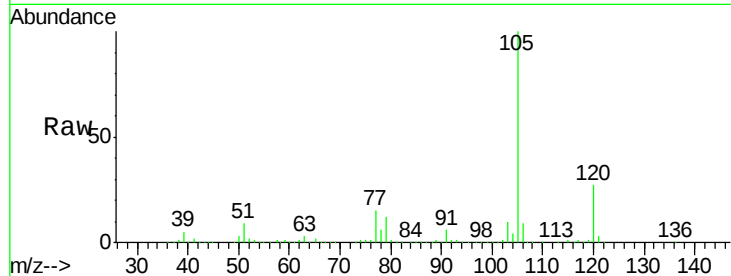
120 26.8 13.4 40.1

Manual Integrations

APPROVED

MMDadoda

10/1/2019 11:33:06 AM



#74

N-ethyl acetate

Concen: 52.585 ug/l

RT: 12.27 min Scan# 1701

Delta R.T. 0.01 min

Lab File: VW013346.D

Acq: 30 Sep 2019 21:46

Tgt Ion: 43 Resp: 165155

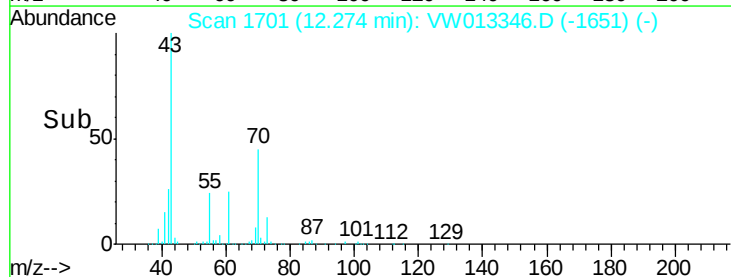
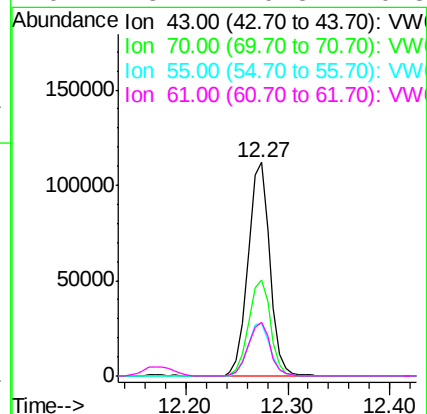
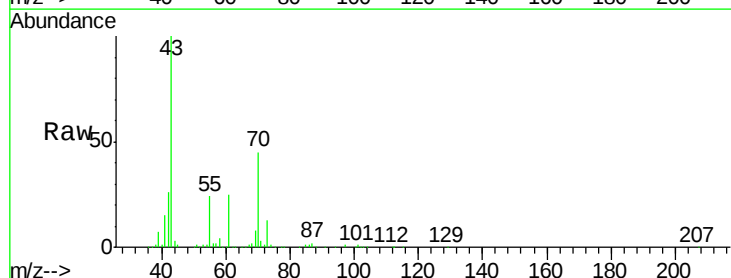
Ion Ratio Lower Upper

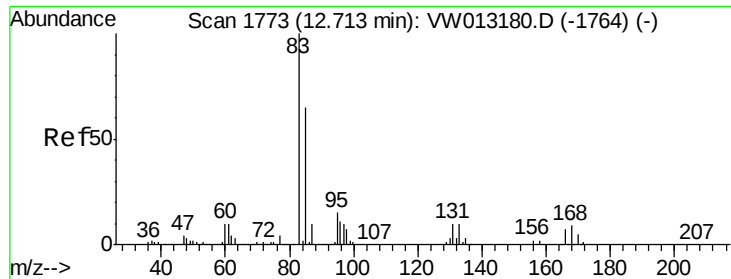
43 100

70 45.6 35.1 52.7

55 25.1 19.9 29.9

61 25.4 19.5 29.3





#75

1,1,2,2-Tetrachloroethane

Concen: 53.173 ug/l

RT: 12.71 min Scan# 1773

Delta R.T. -0.00 min

Lab File: VW013346.D

Acq: 30 Sep 2019 21:46

Instrument :

MSVOA_W

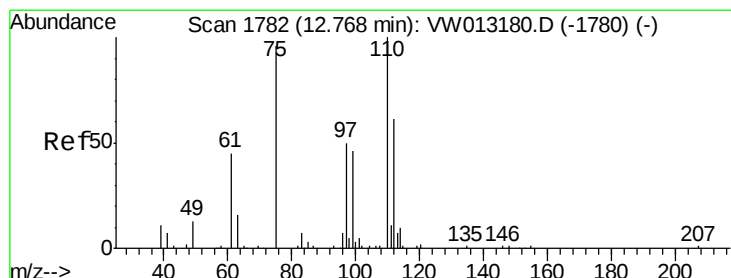
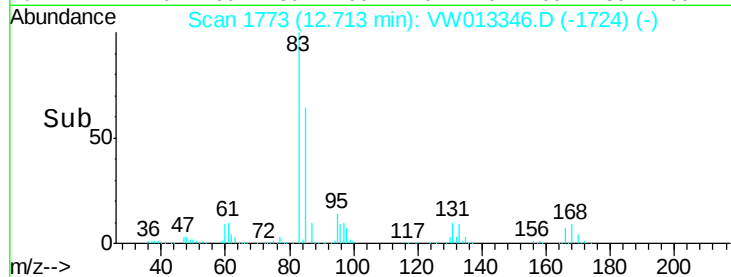
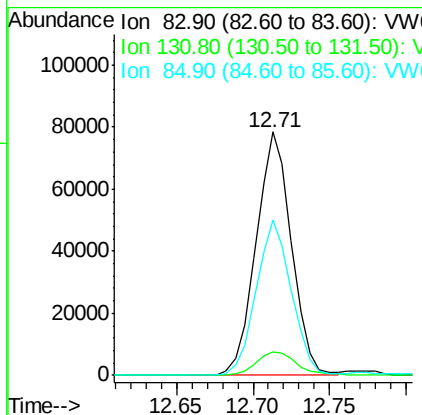
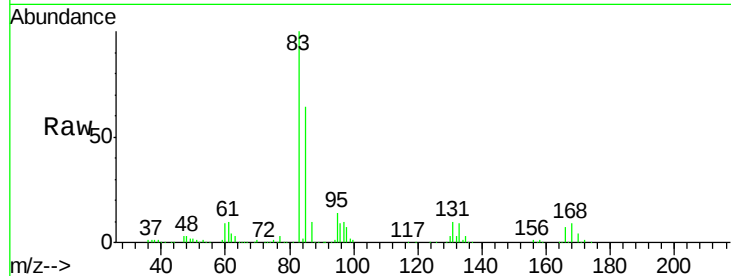
ClientSampleId :

VSTDCCC050

Tot Ion:	83	Resp:	125865
Ion Ratio	Lower	Upper	
83	100		
131	11.0	5.4	16.2
85	63.6	31.9	95.9

Manual Integrations
APPROVED

MMDadoda
10/1/2019 11:33:06 AM



#76

1,2,3-Trichloropropane

Concen: 46.433 ug/l m

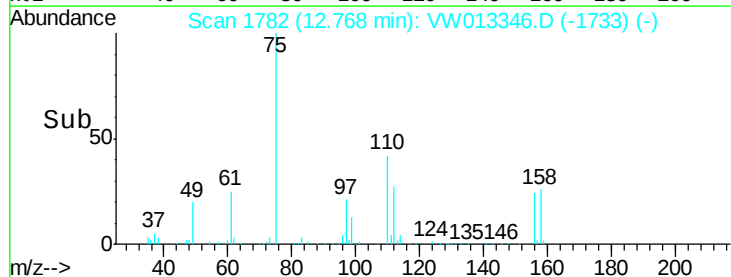
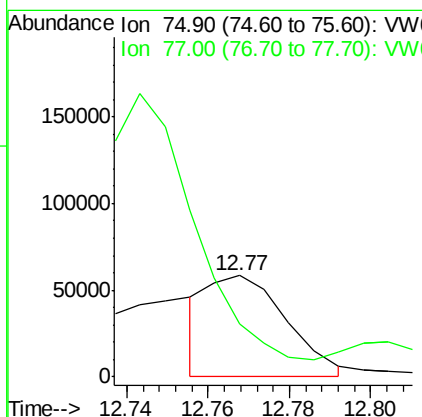
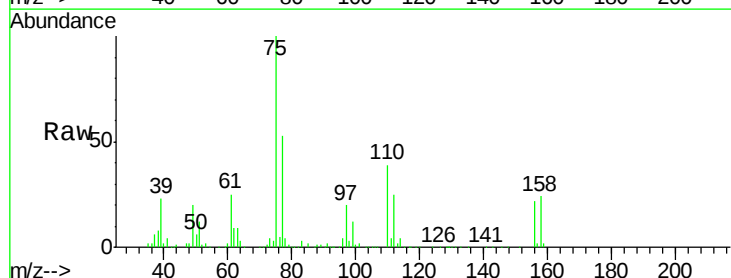
RT: 12.77 min Scan# 1782

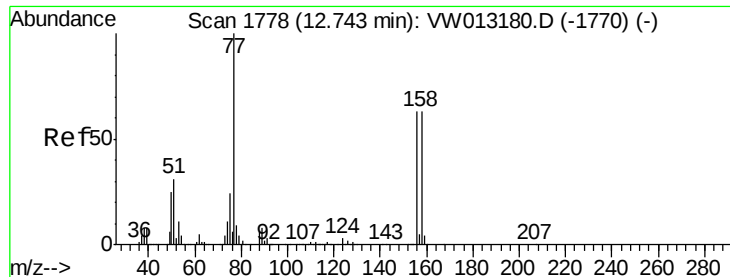
Delta R.T. -0.00 min

Lab File: VW013346.D

Acq: 30 Sep 2019 21:46

Tgt Ion:	75	Resp:	78568
Ion Ratio	Lower	Upper	
75	100		
77	0.0	0.0	0.0





#77

Bromobenzene

Concen: 50.116 ug/l

RT: 12.74 min Scan# 1778

Delta R.T. -0.00 min

Lab File: VW013346.D

Acq: 30 Sep 2019 21:46

Instrument :

MSVOA_W

ClientSampleId :

VSTDCCC050

Tot Ion:156 Resp: 168090

Ion Ratio Lower Upper

156 100

77 174.1 85.7 257.1

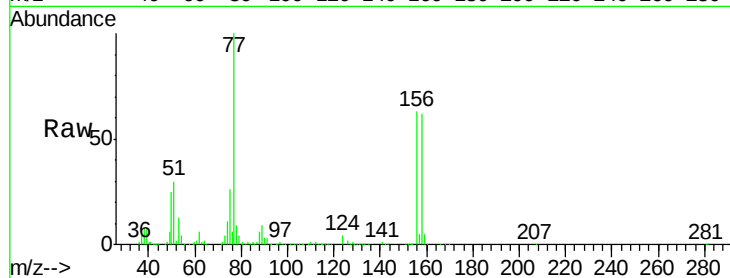
158 98.1 48.1 144.4

Manual Integrations

APPROVED

MMDadoda

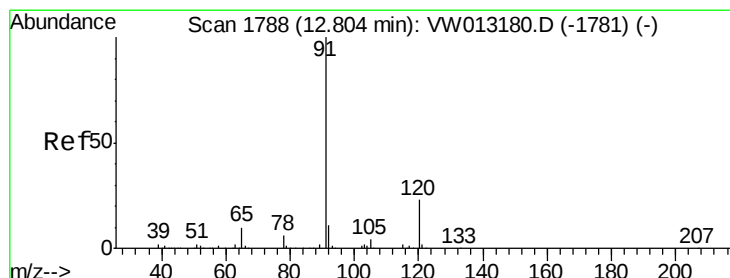
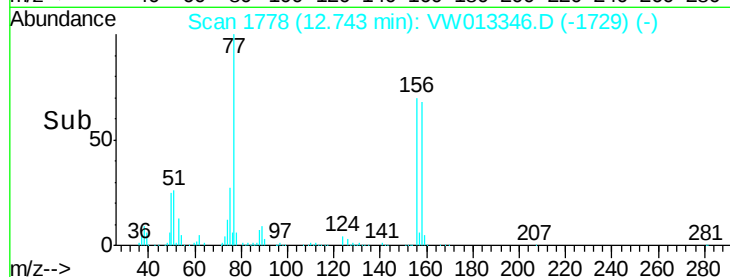
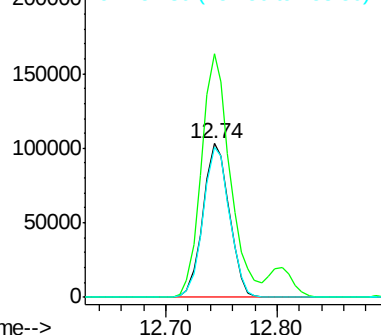
10/1/2019 11:33:06 AM



Abundance Ion 155.80 (155.50 to 156.50): V

Ion 77.00 (76.70 to 77.70): VW

Ion 157.80 (157.50 to 158.50): V



#78

n-propylbenzene

Concen: 50.042 ug/l

RT: 12.80 min Scan# 1788

Delta R.T. -0.00 min

Lab File: VW013346.D

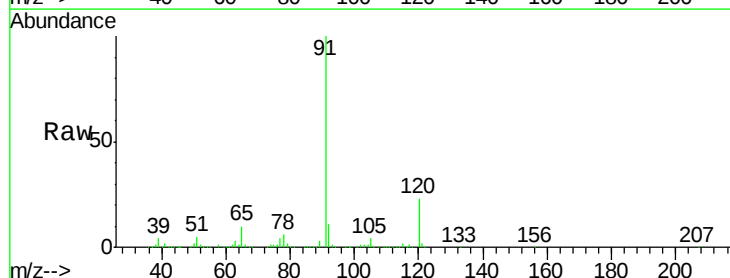
Acq: 30 Sep 2019 21:46

Tgt Ion: 91 Resp: 829074

Ion Ratio Lower Upper

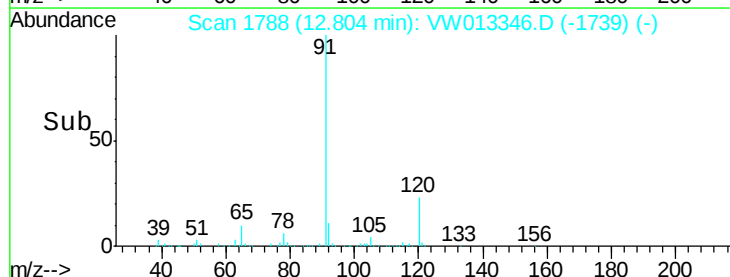
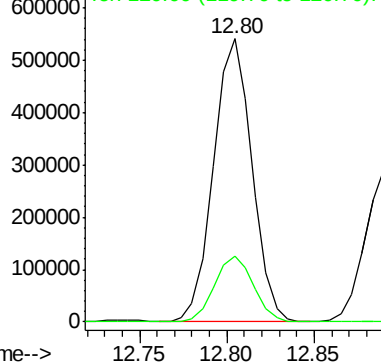
91 100

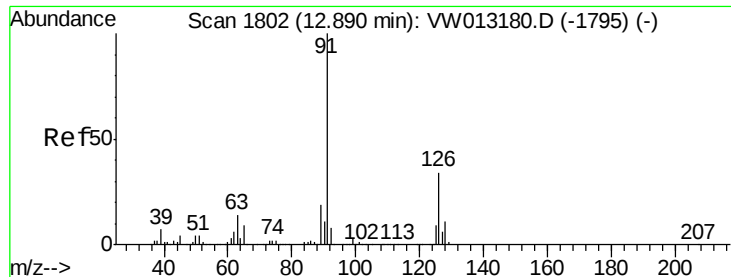
120 23.5 11.7 35.1



Abundance Ion 91.00 (90.70 to 91.70): VW

Ion 120.00 (119.70 to 120.70): V





#79

2-Chlorotoluene

Concen: 49.689 ug/l

RT: 12.89 min Scan# 1802

Delta R.T. -0.00 min

Lab File: VW013346.D

Acq: 30 Sep 2019 21:46

Instrument :

MSVOA_W

ClientSampleId :

VSTDCCC050

Tot Ion: 91 Resp: 461198

Ion Ratio Lower Upper

91 100

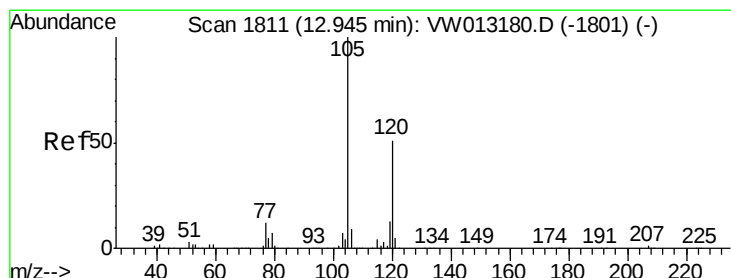
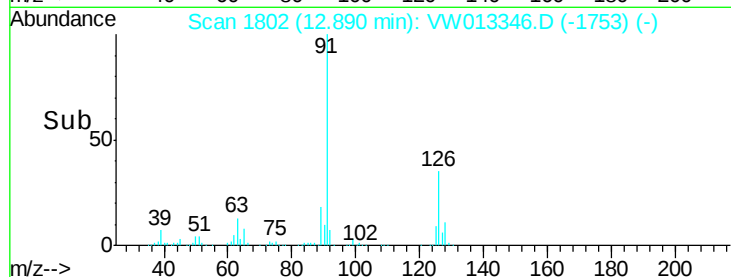
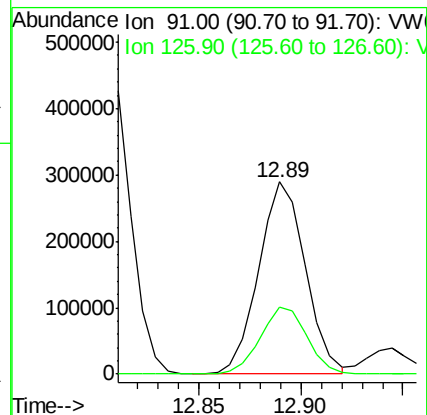
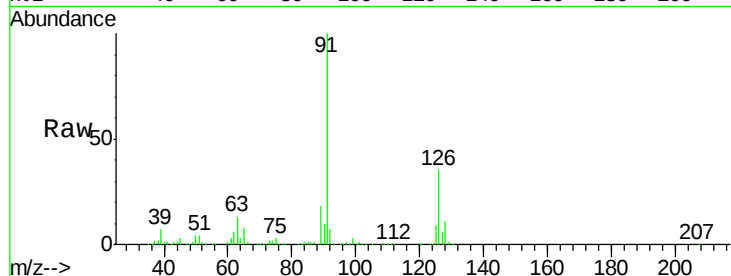
126 35.2 17.2 51.5

Manual Integrations

APPROVED

MMDadoda

10/1/2019 11:33:06 AM



#80

1,3,5-Trimethylbenzene

Concen: 50.386 ug/l

RT: 12.94 min Scan# 1811

Delta R.T. -0.00 min

Lab File: VW013346.D

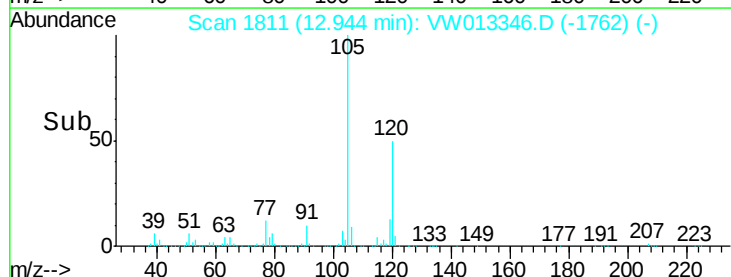
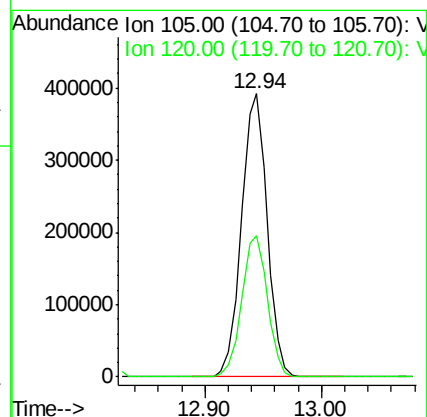
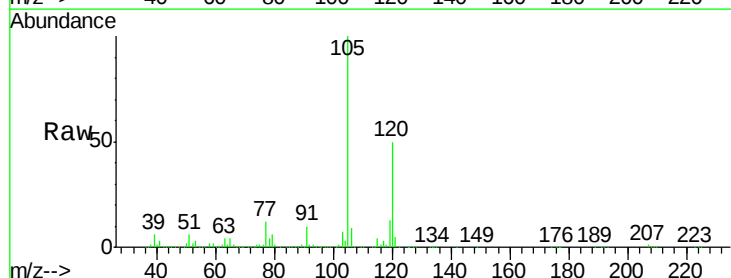
Acq: 30 Sep 2019 21:46

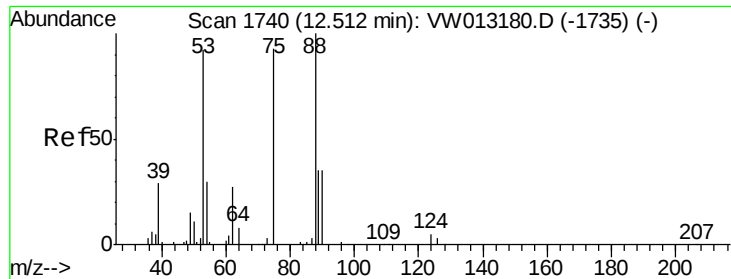
Tgt Ion: 105 Resp: 599482

Ion Ratio Lower Upper

105 100

120 50.2 24.9 74.8





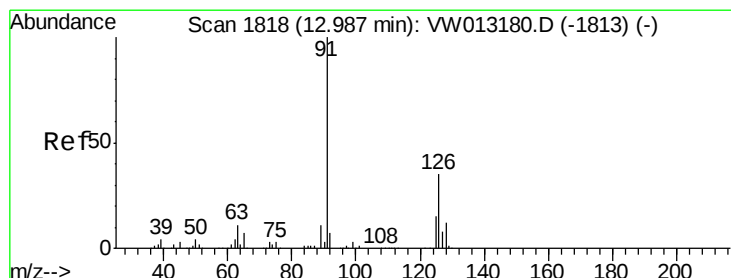
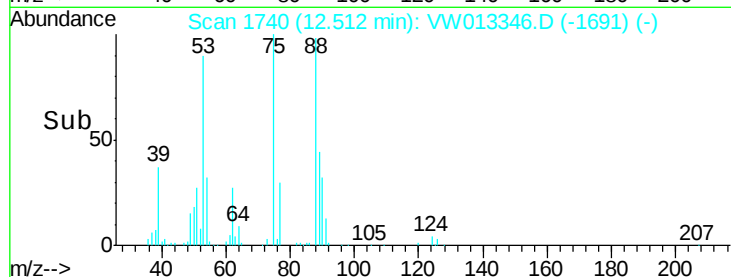
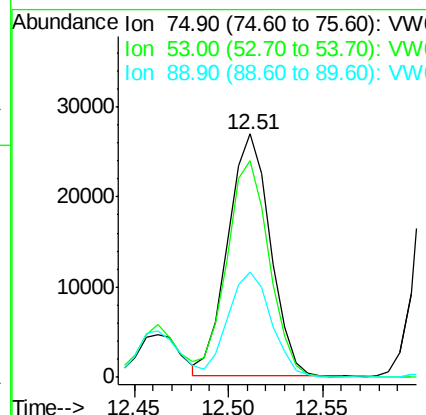
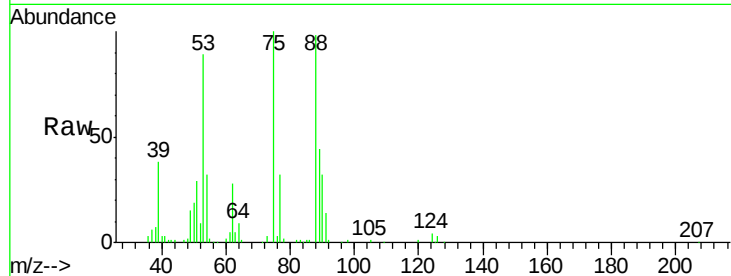
#81
trans-1,4-Dichloro-2-butene
Concen: 55.767 ug/l
RT: 12.51 min Scan# 1740
Delta R.T. -0.00 min
Lab File: VW013346.D
Acq: 30 Sep 2019 21:46

Instrument :
MSVOA_W
ClientSampleId :
VSTDCCC050

Tot Ion	Ratio	Lower	Upper
75	100		
53	89.1	76.6	114.8
89	44.1	33.5	50.3

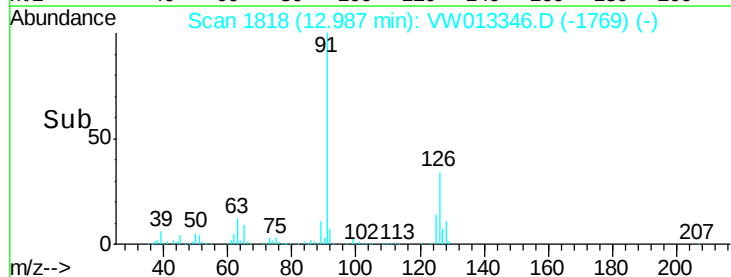
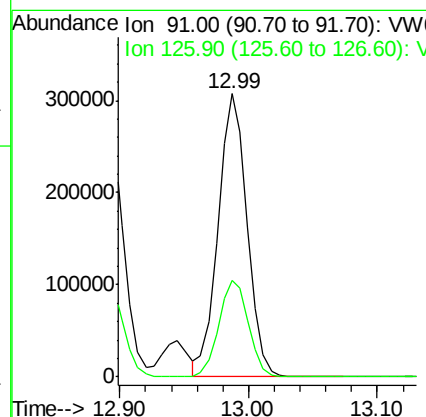
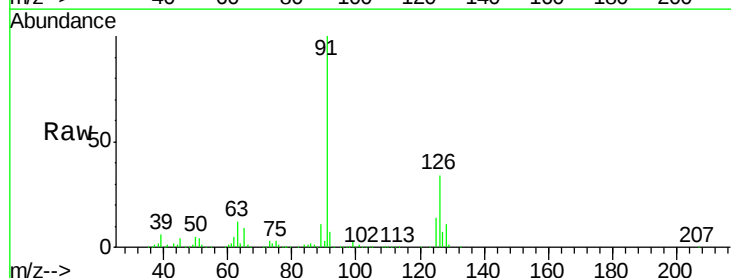
Manual Integrations
APPROVED

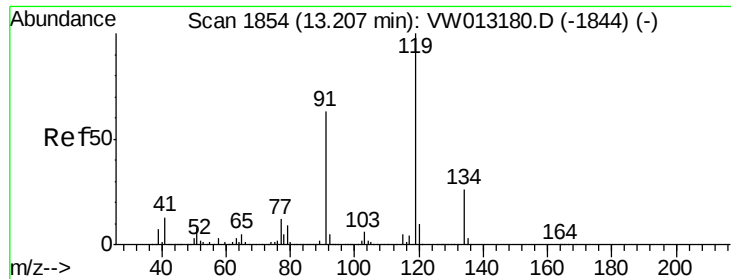
MMDadoda
10/1/2019 11:33:06 AM



#82
4-Chlorotoluene
Concen: 49.426 ug/l
RT: 12.99 min Scan# 1818
Delta R.T. -0.00 min
Lab File: VW013346.D
Acq: 30 Sep 2019 21:46

Tgt Ion	Ratio	Lower	Upper
91	100		
126	34.9	17.3	51.7





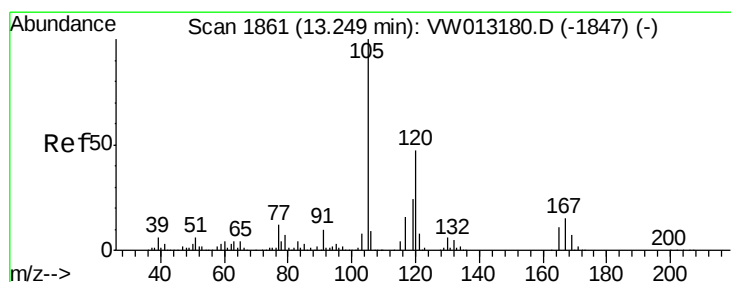
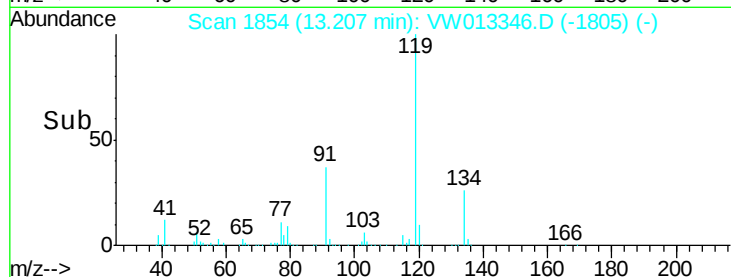
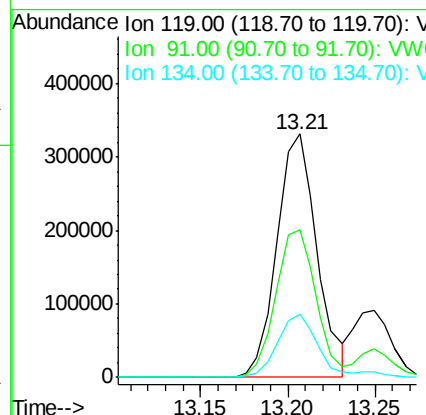
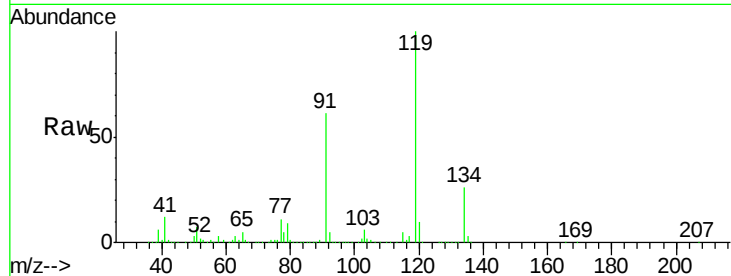
#83
tert-Butylbenzene
Concen: 50.771 ug/l
RT: 13.21 min Scan# 1854
Delta R.T. -0.00 min
Lab File: VW013346.D
Acq: 30 Sep 2019 21:46

Instrument :
MSVOA_W
ClientSampleId :
VSTDCCC050

Tot Ion	Ratio	Lower	Upper
119	100		
91	60.9	30.7	92.1
134	27.2	12.6	37.6

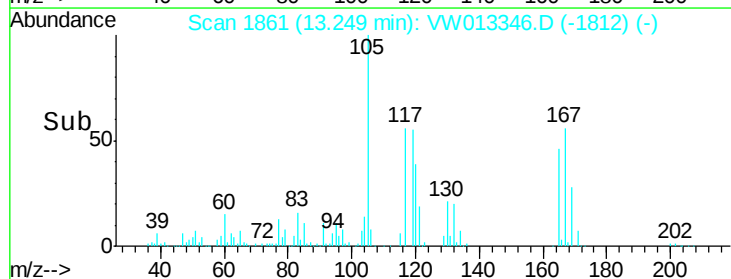
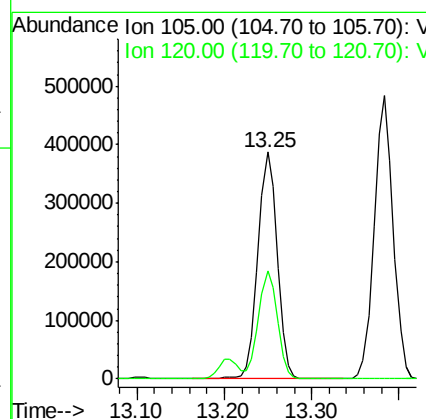
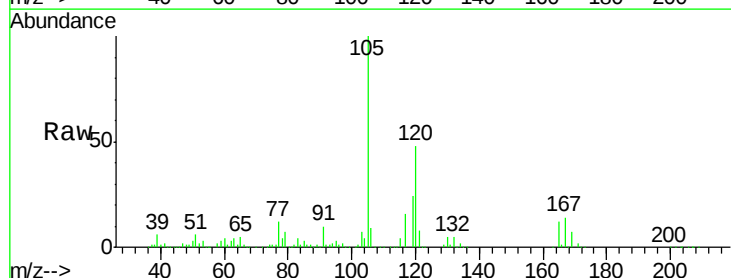
Manual Integrations
APPROVED

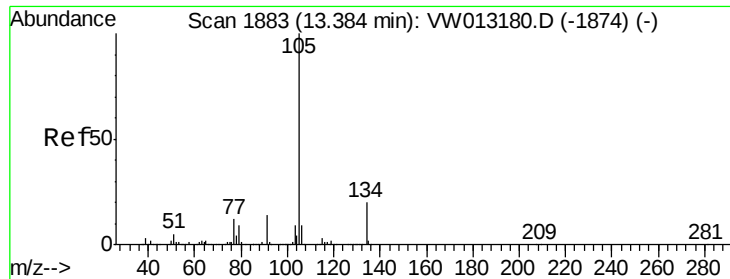
MMDadoda
10/1/2019 11:33:06 AM



#84
1,2,4-Trimethylbenzene
Concen: 49.949 ug/l
RT: 13.25 min Scan# 1861
Delta R.T. -0.00 min
Lab File: VW013346.D
Acq: 30 Sep 2019 21:46

Tgt Ion	Ratio	Lower	Upper
105	100		
120	46.5	23.4	70.3





#85

sec-Butylbenzene

Concen: 50.702 ug/l

RT: 13.38 min Scan# 1883

Delta R.T. -0.00 min

Lab File: VW013346.D

Acq: 30 Sep 2019 21:46

Instrument :

MSVOA_W

ClientSampleId :

VSTDCCC050

Tot Ion:105 Resp: 729963

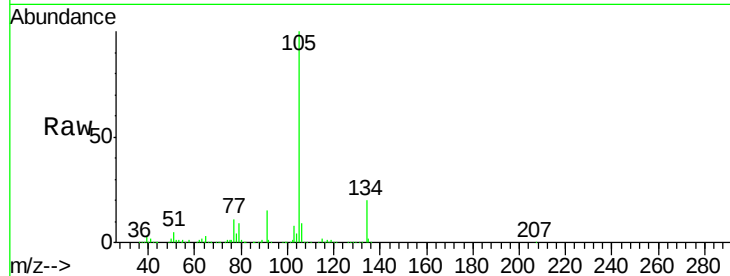
Ion Ratio Lower Upper

105 100

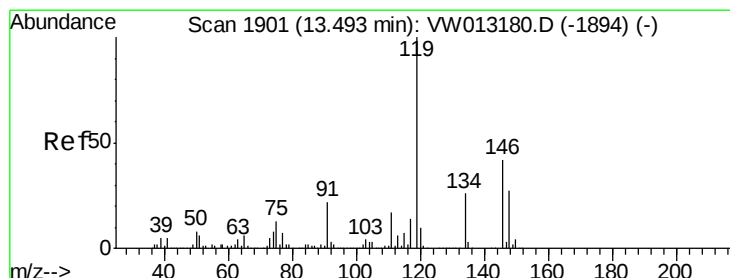
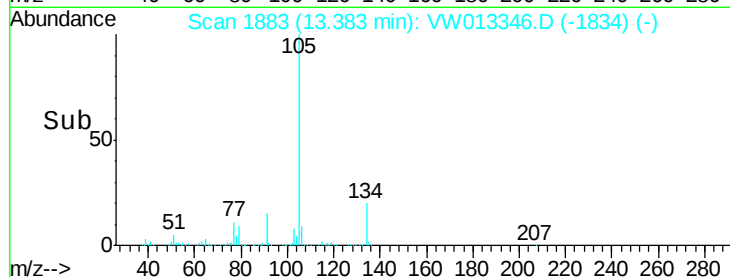
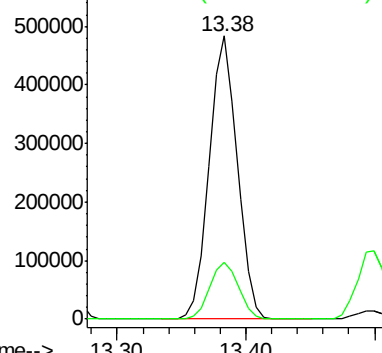
134 20.4 10.3 30.8

Manual Integrations
APPROVED

MMDadoda
10/1/2019 11:33:06 AM



Abundance Ion 105.00 (104.70 to 105.70): V
Ion 134.00 (133.70 to 134.70): V



#86

p-Isopropyltoluene

Concen: 51.436 ug/l

RT: 13.50 min Scan# 1902

Delta R.T. 0.01 min

Lab File: VW013346.D

Acq: 30 Sep 2019 21:46

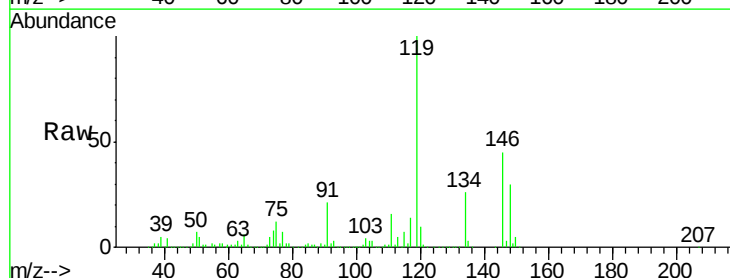
Tgt Ion:119 Resp: 686853

Ion Ratio Lower Upper

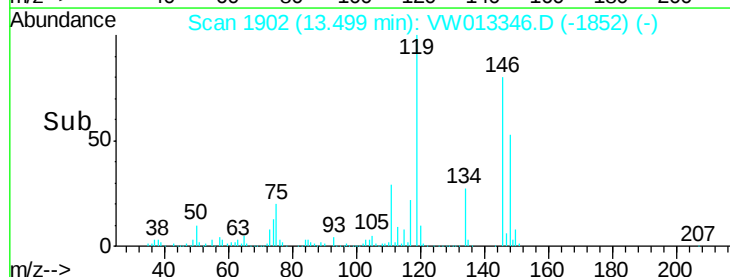
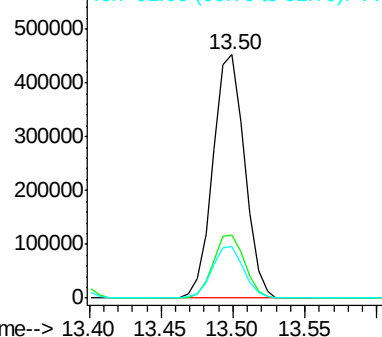
119 100

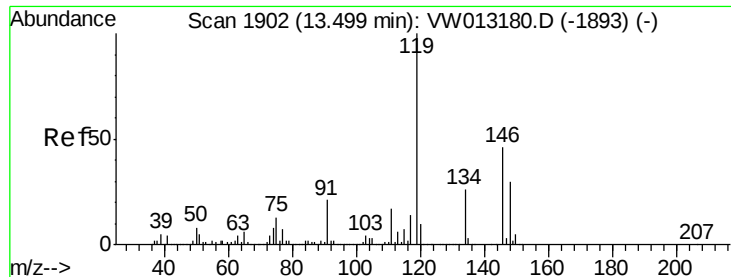
134 26.0 13.3 39.8

91 21.2 10.8 32.4



Abundance Ion 119.00 (118.70 to 119.70): V
Ion 134.00 (133.70 to 134.70): V
Ion 91.00 (90.70 to 91.70): V





#87

1,3-Dichlorobenzene

Concen: 50.295 ug/l

RT: 13.50 min Scan# 1902

Delta R.T. -0.00 min

Lab File: VW013346.D

Acq: 30 Sep 2019 21:46

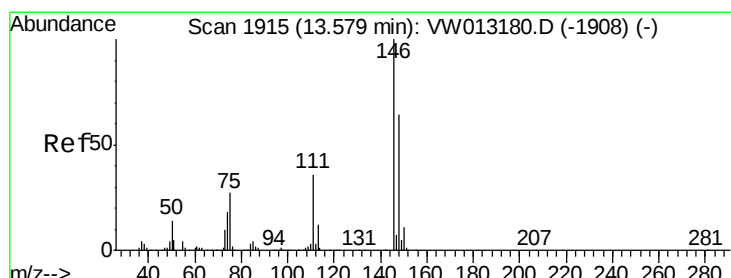
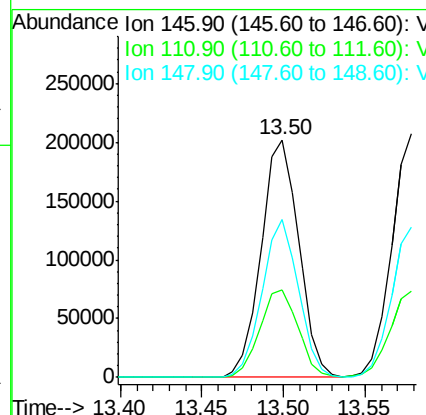
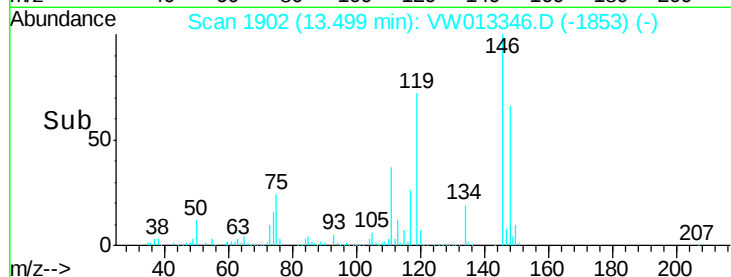
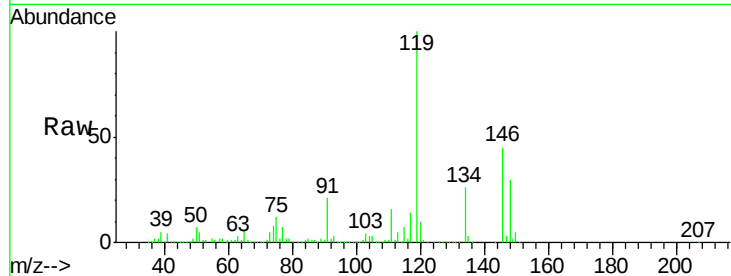
Instrument :
MSVOA_W

ClientSampleId :
VSTDCCC050

Tot Ion	Ratio	Resp	Lower	Upper
146	100	324660		
111	37.6	18.9	56.9	
148	64.4	31.9	95.5	

Manual Integrations
APPROVED

MMDadoda
10/1/2019 11:33:06 AM



#88

1,4-Dichlorobenzene

Concen: 51.030 ug/l

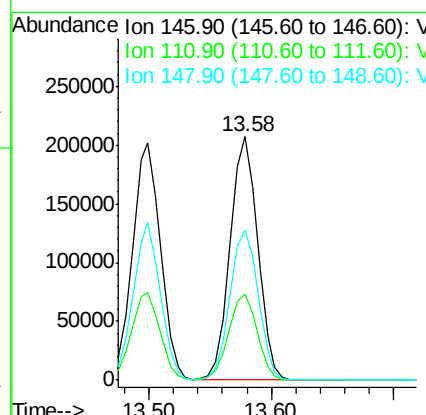
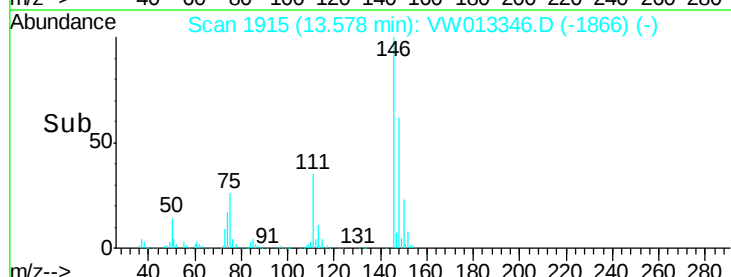
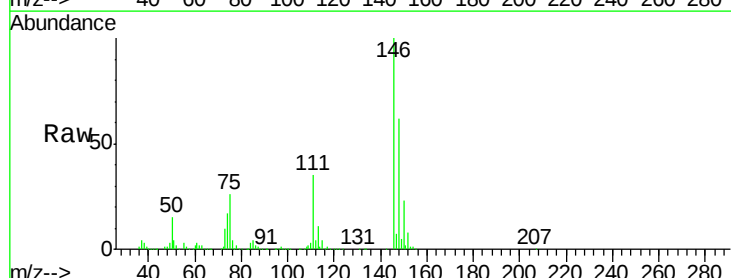
RT: 13.58 min Scan# 1915

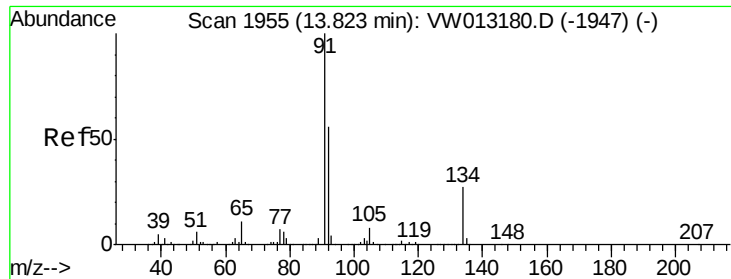
Delta R.T. -0.00 min

Lab File: VW013346.D

Acq: 30 Sep 2019 21:46

Tgt Ion	Ratio	Resp	Lower	Upper
146	100	323061		
111	36.5	18.4	55.0	
148	63.1	32.1	96.3	





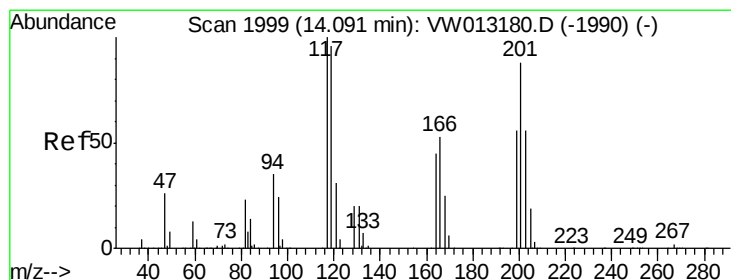
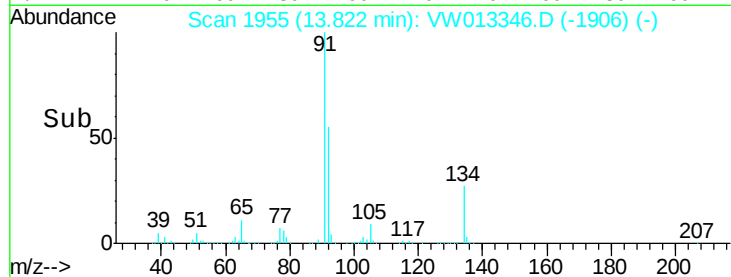
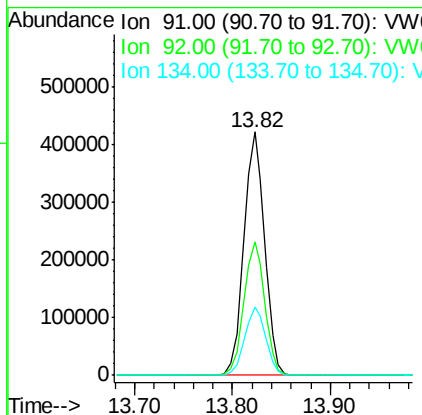
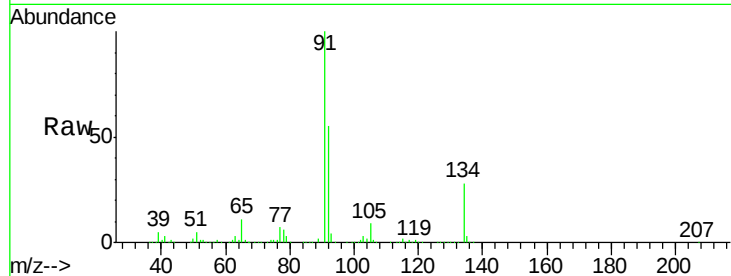
#89
n-Butylbenzene
Concen: 50.500 ug/l
RT: 13.82 min Scan# 1955
Delta R.T. -0.00 min
Lab File: VW013346.D
Acq: 30 Sep 2019 21:46

Instrument :
MSVOA_W
ClientSampleId :
VSTDCCC050

Tot Ion	Ratio	Resp	Lower	Upper
91	100	615759		
92	55.3		27.6	82.8
134	28.3		13.7	41.1

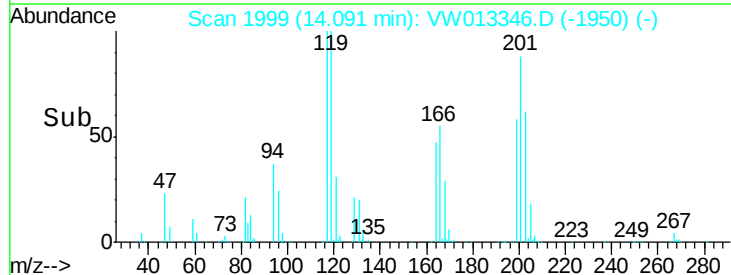
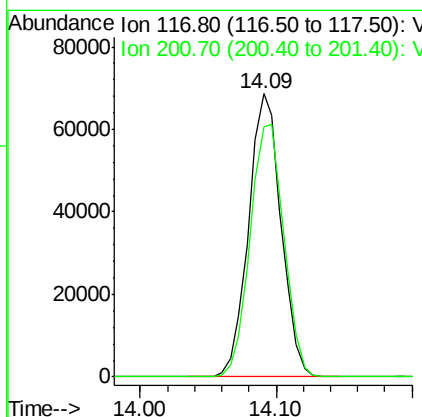
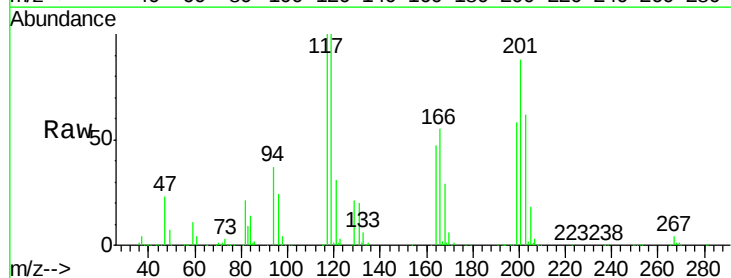
Manual Integrations
APPROVED

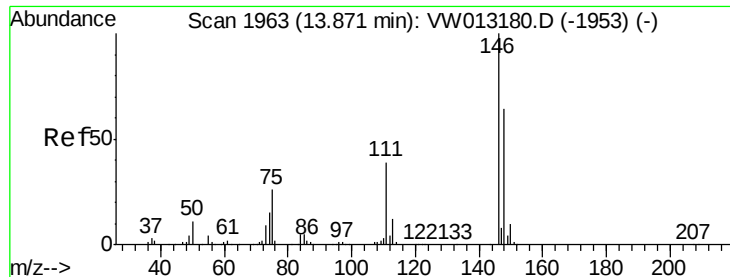
MMDadoda
10/1/2019 11:33:06 AM



#90
Hexachloroethane
Concen: 51.265 ug/l
RT: 14.09 min Scan# 1999
Delta R.T. -0.00 min
Lab File: VW013346.D
Acq: 30 Sep 2019 21:46

Tgt Ion	Ratio	Resp	Lower	Upper
117	100	115001		
201	92.8		44.5	133.5





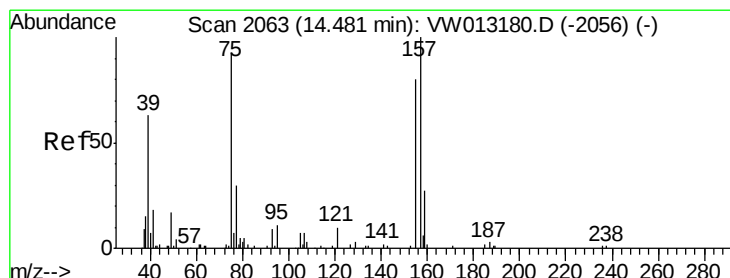
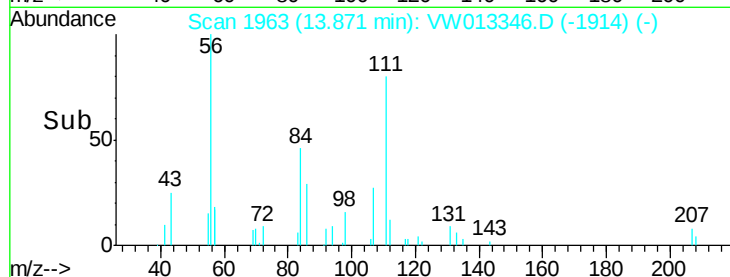
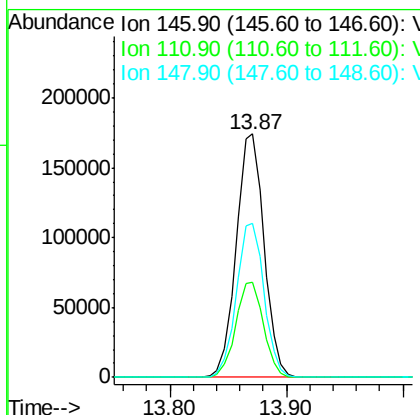
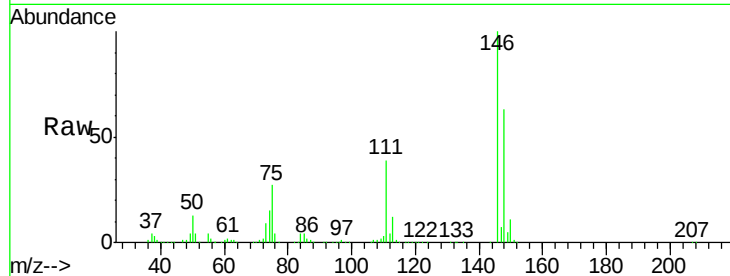
#91
 1,2-Dichlorobenzene
 Concen: 51.831 ug/l
 RT: 13.87 min Scan# 1963
 Delta R.T. -0.00 min
 Lab File: VW013346.D
 Acq: 30 Sep 2019 21:46

Instrument :
 MSVOA_W
 ClientSampleId :
 VSTDCCC050

Tot Ion	Ratio	Lower	Upper
146	100		
111	39.2	20.1	60.3
148	63.2	32.0	96.0

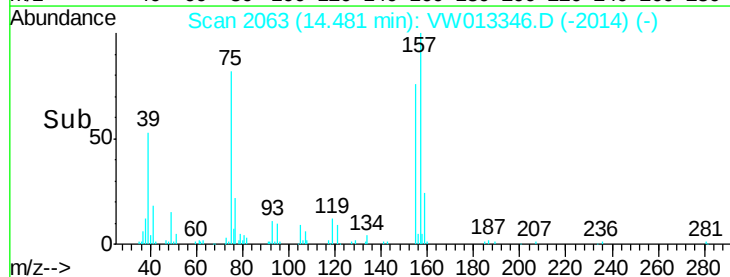
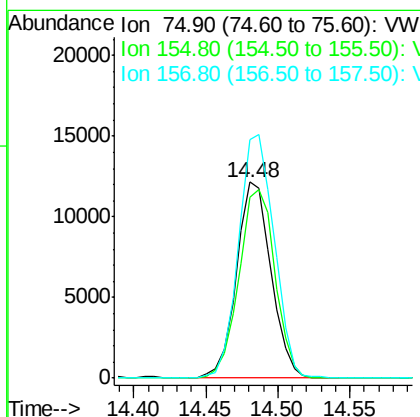
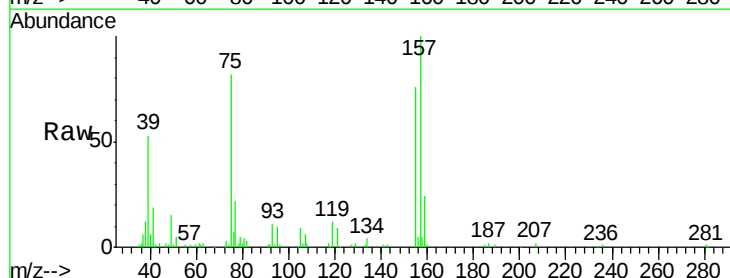
Manual Integrations
 APPROVED

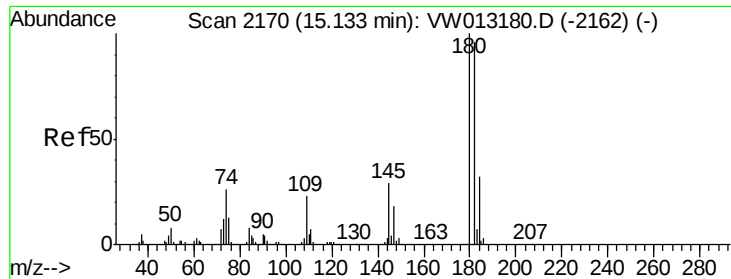
MMDadoda
 10/1/2019 11:33:06 AM



#92
 1,2-Dibromo-3-Chloropropane
 Concen: 55.891 ug/l
 RT: 14.48 min Scan# 2063
 Delta R.T. -0.00 min
 Lab File: VW013346.D
 Acq: 30 Sep 2019 21:46

Tgt Ion	Ratio	Lower	Upper
75	100		
155	100.1	46.1	138.3
157	127.5	60.4	181.2





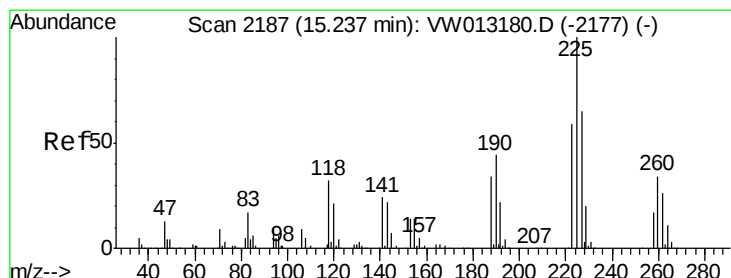
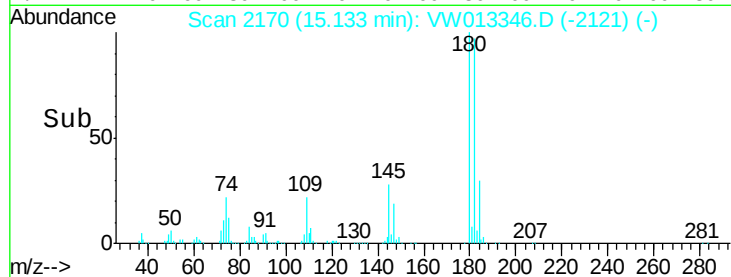
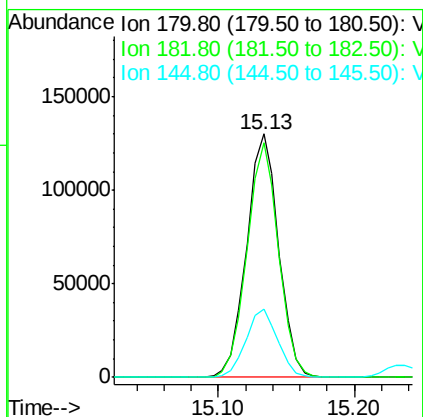
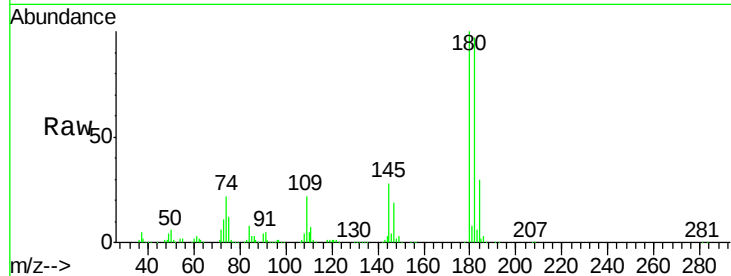
#93
 1,2,4-Trichlorobenzene
 Concen: 53.462 ug/l
 RT: 15.13 min Scan# 2170
 Delta R.T. -0.00 min
 Lab File: VW013346.D
 Acq: 30 Sep 2019 21:46

Instrument :
 MSVOA_W
 ClientSampleId :
 VSTDCCC050

Tot Ion	Ratio	Resp	Lower	Upper
180	100	213939		
182	95.1	47.3	142.0	
145	27.7	14.2	42.8	

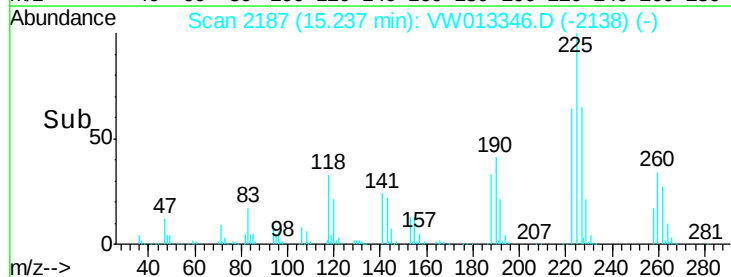
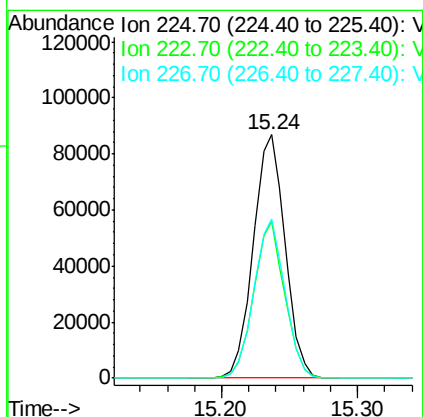
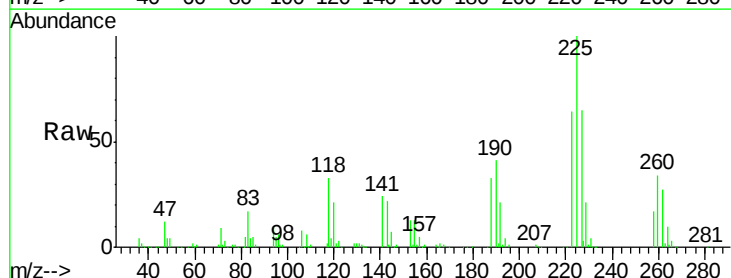
Manual Integrations
 APPROVED

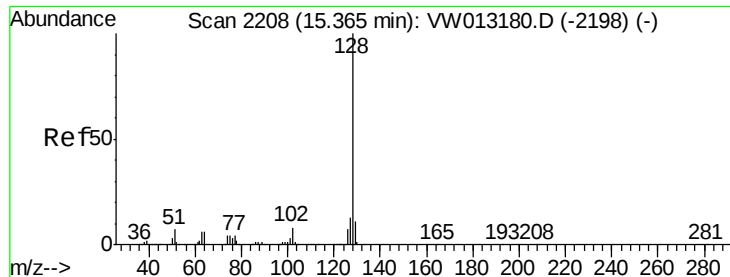
MMDadoda
 10/1/2019 11:33:06 AM



#94
 Hexachlorobutadiene
 Concen: 52.057 ug/l
 RT: 15.24 min Scan# 2187
 Delta R.T. -0.00 min
 Lab File: VW013346.D
 Acq: 30 Sep 2019 21:46

Tgt Ion	Ratio	Resp	Lower	Upper
225	100	142518		
223	62.4	30.6	91.8	
227	63.9	31.9	95.9	





#95

Naphthalene

Concen: 58.256 ug/l

RT: 15.36 min Scan# 2208

Delta R.T. -0.00 min

Lab File: VW013346.D

Acq: 30 Sep 2019 21:46

Instrument :

MSVOA_W

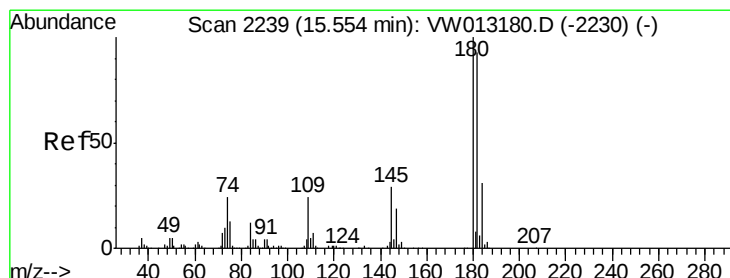
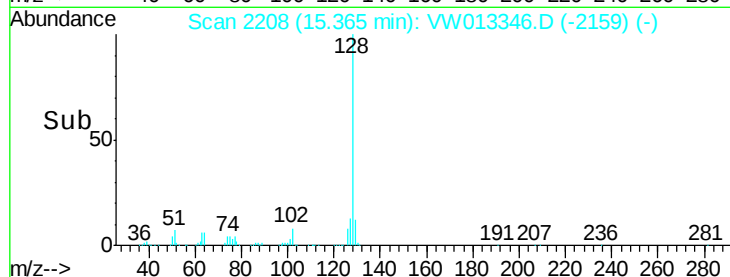
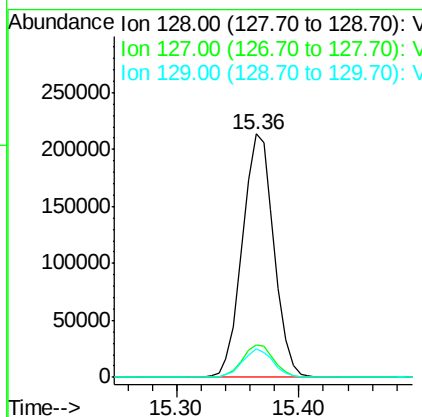
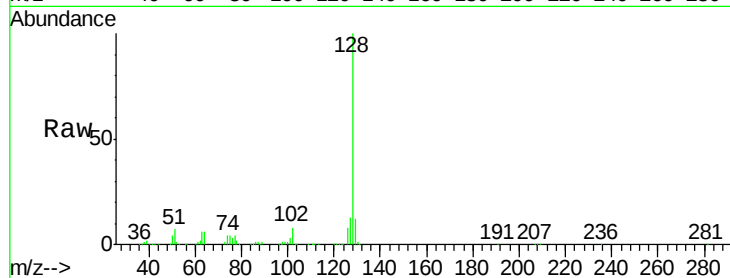
ClientSampleID :

VSTDCCC050

Tot Ion:	128	Resp:	381278
Ion Ratio	Lower	Upper	
128	100		
127	13.4	10.6	15.8
129	11.3	8.7	13.1

Manual Integrations
APPROVED

MMDadoda
10/1/2019 11:33:06 AM



#96

1,2,3-Trichlorobenzene

Concen: 54.995 ug/l

RT: 15.55 min Scan# 2239

Delta R.T. -0.00 min

Lab File: VW013346.D

Acq: 30 Sep 2019 21:46

Tgt Ion:	180	Resp:	190160
Ion Ratio	Lower	Upper	
180	100		
182	95.6	47.9	143.7
145	29.7	15.0	45.0

