

Data Path : Z:\VOASRV\HPCHEM1\MSVOA N\DATA\VN091919\
 Data File : VN058230.D
 Acq On : 20 Sep 2019 1:09
 Operator : JC/SP
 Sample : K4896-03MS
 Misc : 5.00mL/MSVOA N/WATER
 ALS Vial : 44 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 RE123D1-20190912MS

Manual Integrations
 APPROVED

MMDadoda
 9/20/2019 3:36:56 PM

Quant Time: Sep 20 09:10:44 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_N\METHODS\82N091819W.M
 Quant Title : SW846 8260
 QLast Update : Thu Sep 19 09:27:53 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	7.65	168	462231	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	8.57	114	802423	50.00	ug/l	0.00
63) Chlorobenzene-d5	11.41	117	733790	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.35	152	365462	50.00	ug/l	0.00

System Monitoring Compounds

33) 1,2-Dichloroethane-d4	8.01	65	350616	54.46	ug/l	0.00
Spiked Amount	50.000		Recovery	=	108.92%	
35) Dibromofluoromethane	7.57	113	251471	51.55	ug/l	0.00
Spiked Amount	50.000		Recovery	=	103.10%	
50) Toluene-d8	10.08	98	1014563	53.38	ug/l	0.00
Spiked Amount	50.000		Recovery	=	106.76%	
62) 4-Bromofluorobenzene	12.40	95	372542	52.77	ug/l	0.00
Spiked Amount	50.000		Recovery	=	105.54%	

Target Compounds

						Qvalue
2) Dichlorodifluoromethane	1.83	85	181744	47.864	ug/l	98
3) Chloromethane	2.04	50	146525	50.064	ug/l	97
4) Vinyl Chloride	2.17	62	162289	50.719	ug/l	99
5) Bromomethane	2.54	94	67225	39.827	ug/l	94
6) Chloroethane	2.68	64	109112	53.337	ug/l	92
7) Trichlorofluoromethane	3.00	101	247702	47.792	ug/l	98
8) Diethyl Ether	3.39	74	117259	49.377	ug/l	97
9) 1,1,2-Trichlorotrifluoroet	3.74	101	179742	48.100	ug/l	99
10) Methyl Iodide	3.93	142	118003	37.686	ug/l	99
11) Tert butyl alcohol	4.75	59	210342	274.665	ug/l #	86
12) 1,1-Dichloroethene	3.72	96	146601	51.708	ug/l	97
13) Acrolein	3.59	56	33544	295.566	ug/l	96
14) Allyl chloride	4.30	41	293276	47.963	ug/l	99
15) Acrylonitrile	4.96	53	556467	272.732	ug/l	99
16) Acetone	3.79	43	488386	223.486	ug/l	100
17) Carbon Disulfide	4.03	76	187524	46.995	ug/l	98
18) Methyl Acetate	4.30	43	263362	45.800	ug/l	99
19) Methyl tert-butyl Ether	5.02	73	744847	52.848	ug/l	98
20) Methylene Chloride	4.53	84	205728	53.788	ug/l	97
21) trans-1,2-Dichloroethene	5.02	96	159354	51.581	ug/l	99
22) Diisopropyl ether	5.93	45	819943	52.789	ug/l	97
23) Vinyl Acetate	5.87	43	2650305	249.366	ug/l	100
24) 1,1-Dichloroethane	5.82	63	426448	51.441	ug/l	98
25) 2-Butanone	6.82	43	770356	258.750	ug/l	98
26) 2,2-Dichloropropane	6.81	77	248150	35.284	ug/l	98
27) cis-1,2-Dichloroethene	6.81	96	239320	51.056	ug/l	96
28) Bromochloromethane	7.18	49	215762	55.018	ug/l	99
29) Tetrahydrofuran	7.19	42	481034	262.303	ug/l	100
30) Chloroform	7.36	83	454210	50.901	ug/l	99
31) Cyclohexane	7.64	56	273787	51.148	ug/l	98
32) 1,1,1-Trichloroethane	7.55	97	358270	52.740	ug/l	100
36) 1,1-Dichloropropene	7.78	75	265181	45.826	ug/l	99
37) Ethyl Acetate	6.91	43	279140	46.482	ug/l	99
38) Carbon Tetrachloride	7.76	117	285664	49.109	ug/l	95

Data Path : Z:\VOASRV\HPCHEM1\MSVOA N\DATA\VN091919\
 Data File : VN058230.D
 Acq On : 20 Sep 2019 1:09
 Operator : JC/SP
 Sample : K4896-03MS
 Misc : 5.00mL/MSVOA N/WATER
 ALS Vial : 44 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 RE123D1-20190912MS

Manual Integrations
 APPROVED

MMDadoda
 9/20/2019 3:36:56 PM

Quant Time: Sep 20 09:10:44 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_N\METHODS\82N091819W.M
 Quant Title : SW846 8260
 QLast Update : Thu Sep 19 09:27:53 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
39) Methylcyclohexane	9.07	83	265287	47.419	ug/l	99
40) Benzene	8.03	78	859801	48.646	ug/l	100
41) Methacrylonitrile	7.15	41	141180m	46.727	ug/l	
42) 1,2-Dichloroethane	8.11	62	370022	49.893	ug/l	100
43) Isopropyl Acetate	8.15	43	520230	46.385	ug/l	99
44) Trichloroethene	8.82	130	265216	61.319	ug/l	99
45) 1,2-Dichloropropane	9.11	63	269021	50.968	ug/l	99
46) Dibromomethane	9.20	93	162401	50.607	ug/l	97
47) Bromodichloromethane	9.39	83	350126	52.079	ug/l	100
48) Methyl methacrylate	9.19	41	267246	52.480	ug/l	99
49) 1,4-Dioxane	9.19	88	86073	1029.504	ug/l	95
51) 4-Methyl-2-Pentanone	9.98	43	1722873	289.209	ug/l	99
52) Toluene	10.15	92	554971	50.102	ug/l	99
53) t-1,3-Dichloropropene	10.38	75	347569	50.470	ug/l	98
54) cis-1,3-Dichloropropene	9.83	75	371717	48.889	ug/l	97
55) 1,1,2-Trichloroethane	10.56	97	257579	52.400	ug/l	99
56) Ethyl methacrylate	10.43	69	386201	54.453	ug/l	99
57) 1,3-Dichloropropane	10.71	76	436773	51.686	ug/l	99
59) 2-Hexanone	10.75	43	1242673	280.872	ug/l	99
60) Dibromochloromethane	10.90	129	257165	54.380	ug/l	99
61) 1,2-Dibromoethane	11.00	107	237773	52.195	ug/l	100
64) Tetrachloroethene	10.63	164	163076	45.590	ug/l	97
65) Chlorobenzene	11.43	112	647879	50.197	ug/l	99
66) 1,1,1,2-Tetrachloroethane	11.51	131	251867	53.817	ug/l	99
67) Ethyl Benzene	11.51	91	1157603	52.343	ug/l	100
68) m/p-Xylenes	11.62	106	842744	101.176	ug/l	97
69) o-Xylene	11.95	106	426147	52.031	ug/l	99
70) Stvrene	11.97	104	755274	53.521	ug/l	99
71) Bromoform	12.13	173	165728	47.924	ug/l #	100
73) Isopropylbenzene	12.25	105	1205146	52.683	ug/l	99
74) N-amyl acetate	12.07	43	478668	50.019	ug/l	99
75) 1,1,2,2-Tetrachloroethane	12.51	83	399582	52.162	ug/l	100
76) 1,2,3-Trichloropropane	12.56	75	331615m	50.701	ug/l	
77) Bromobenzene	12.53	156	287689	49.997	ug/l	100
78) n-propylbenzene	12.59	91	1400855	53.890	ug/l	99
79) 2-Chlorotoluene	12.68	91	849188	52.271	ug/l	99
80) 1,3,5-Trimethylbenzene	12.74	105	1028115	53.149	ug/l	98
81) trans-1,4-Dichloro-2-buten	12.30	75	94210	43.694	ug/l	98
82) 4-Chlorotoluene	12.78	91	891357	52.196	ug/l	99
83) tert-Butylbenzene	13.00	119	911235	52.823	ug/l	97
84) 1,2,4-Trimethylbenzene	13.05	105	1047165	54.397	ug/l	100
85) sec-Butylbenzene	13.18	105	1239024	54.926	ug/l	100
86) p-Isopropyltoluene	13.29	119	1098041	54.753	ug/l	99
87) 1,3-Dichlorobenzene	13.29	146	543941	51.755	ug/l	100
88) 1,4-Dichlorobenzene	13.37	146	547913	51.065	ug/l	100
89) n-Butylbenzene	13.62	91	999836	52.586	ug/l	100
90) Hexachloroethane	13.88	117	174012	49.511	ug/l	98
91) 1,2-Dichlorobenzene	13.66	146	551043	52.268	ug/l	99
92) 1,2-Dibromo-3-Chloropropan	14.28	75	74952	54.347	ug/l	99
93) 1,2,4-Trichlorobenzene	14.92	180	344106	51.085	ug/l	99

Data Path : Z:\VOASRV\HPCHEM1\MSVOA N\DATA\VN091919\
Data File : VN058230.D
Acq On : 20 Sep 2019 1:09
Operator : JC/SP
Sample : K4896-03MS
Misc : 5.00mL/MSVOA N/WATER
ALS Vial : 44 Sample Multiplier: 1

Instrument :
MSVOA_N
ClientSampleId :
RE123D1-20190912MS

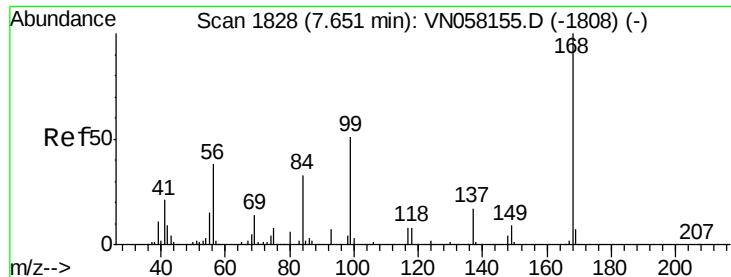
Manual Integrations
APPROVED

MMDadoda
9/20/2019 3:36:56 PM

Quant Time: Sep 20 09:10:44 2019
Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_N\METHODS\82N091819W.M
Quant Title : SW846 8260
QLast Update : Thu Sep 19 09:27:53 2019
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
94) Hexachlorobutadiene	15.02	225	154594	47.484	ug/l	98
95) Naphthalene	15.13	128	933376	53.468	ug/l	100
96) 1,2,3-Trichlorobenzene	15.30	180	322076	50.588	ug/l	100

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



#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 7.65 min Scan# 1828

Delta R.T. -0.00 min

Lab File: VN058230.D

Acq: 20 Sep 2019 1:09

Instrument :

MSVOA_N

ClientSampleId :

RE123D1-20190912MS

Tot Ion:168 Resp: 462231

Ion Ratio Lower Upper

168 100

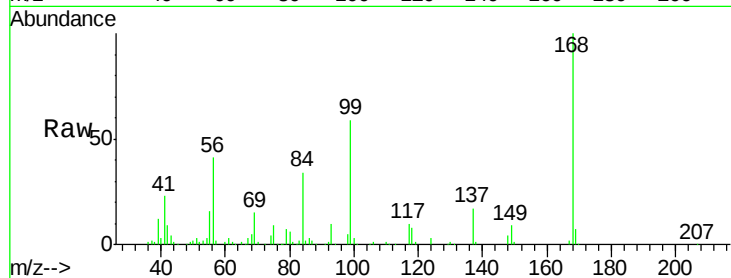
99 58.9 47.4 71.2

Manual Integrations

APPROVED

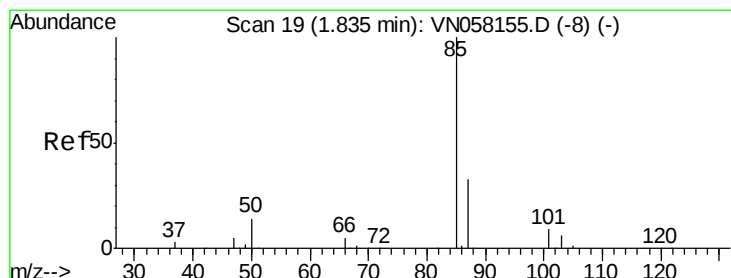
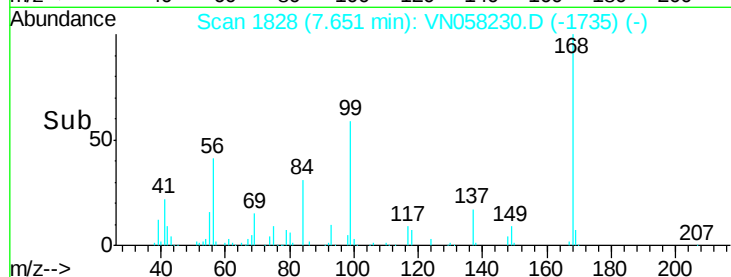
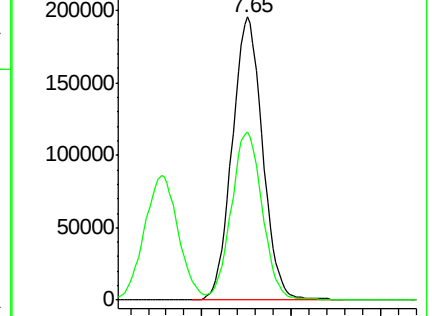
MMDadoda

9/20/2019 3:36:56 PM



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VNO



#2

Dichlorodifluoromethane

Concen: 47.864 ug/l

RT: 1.83 min Scan# 19

Delta R.T. -0.00 min

Lab File: VN058230.D

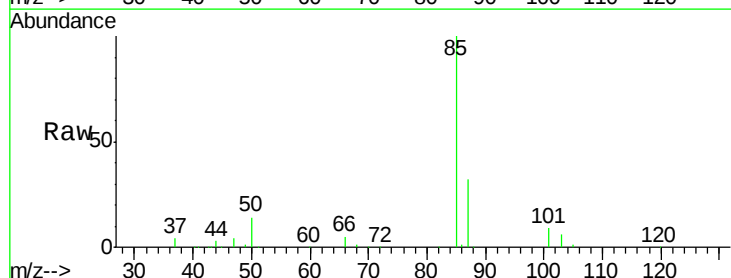
Acq: 20 Sep 2019 1:09

Tgt Ion: 85 Resp: 181744

Ion Ratio Lower Upper

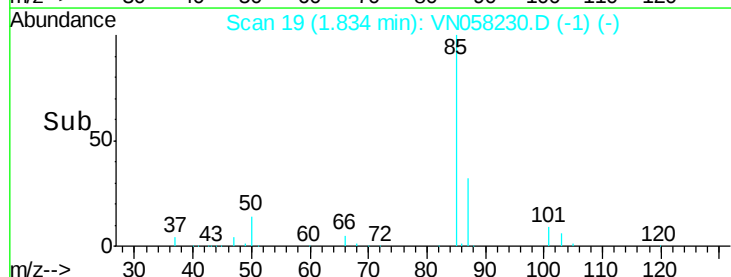
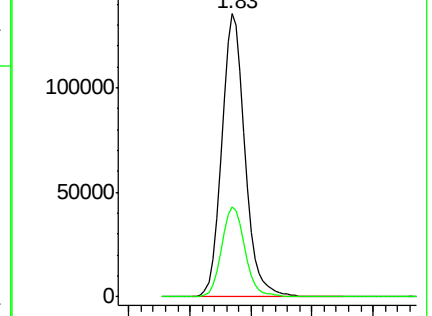
85 100

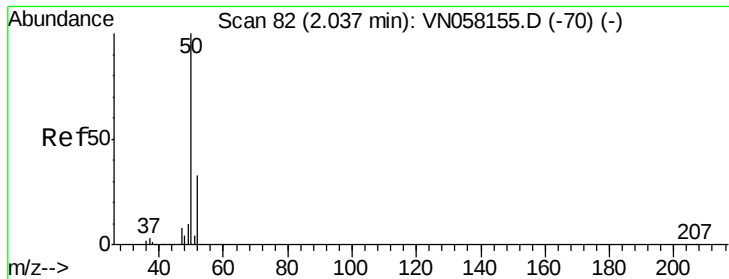
87 31.7 16.3 48.9



Abundance Ion 84.90 (84.60 to 85.60): VNO

Ion 86.90 (86.60 to 87.60): VNO





#3

Chloromethane

Concen: 50.064 ug/l

RT: 2.04 min Scan# 82

Delta R.T. 0.00 min

Lab File: VN058230.D

Acq: 20 Sep 2019 1:09

Instrument :

MSVOA_N

ClientSampleId :

RE123D1-20190912MS

Tot Ion: 50 Resp: 146525

Ion Ratio Lower Upper

50 100

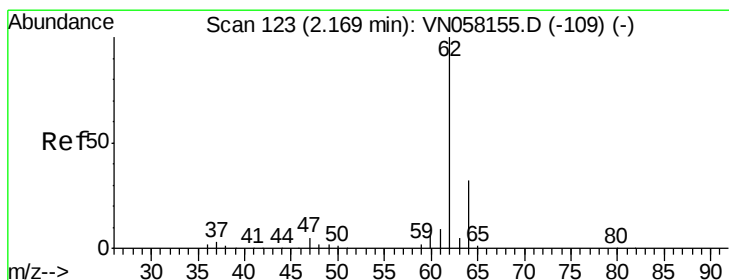
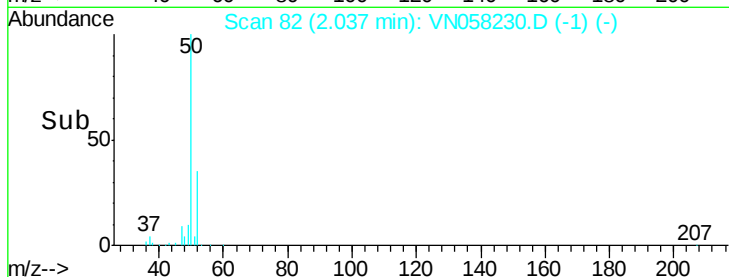
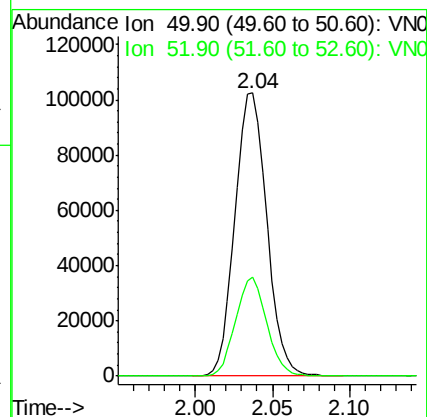
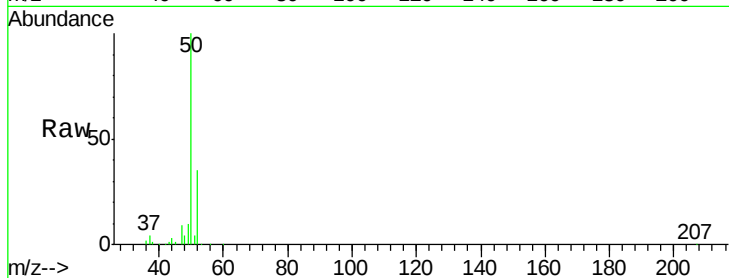
52 34.8 26.3 39.5

Manual Integrations

APPROVED

MMDadoda

9/20/2019 3:36:56 PM



#4

Vinyl Chloride

Concen: 50.719 ug/l

RT: 2.17 min Scan# 123

Delta R.T. 0.00 min

Lab File: VN058230.D

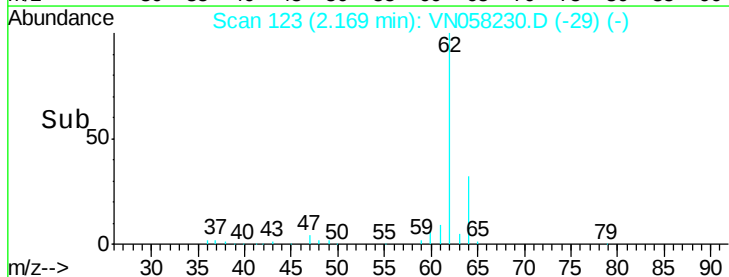
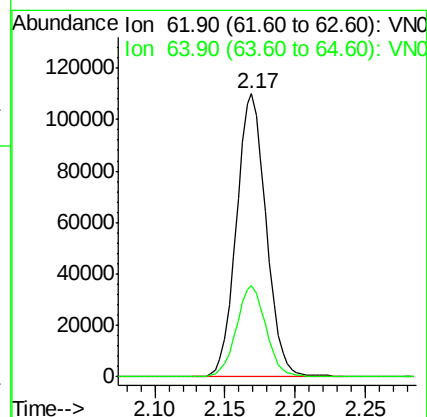
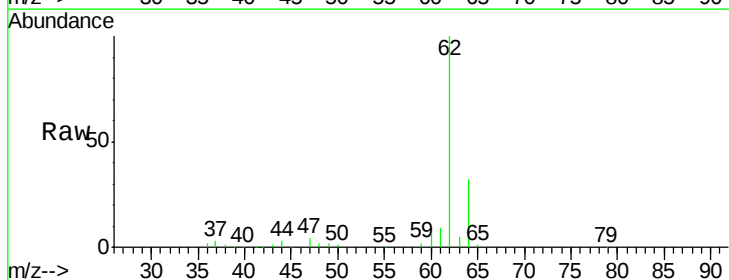
Acq: 20 Sep 2019 1:09

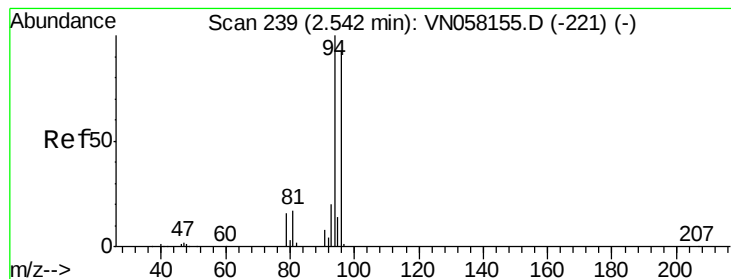
Tgt Ion: 62 Resp: 162289

Ion Ratio Lower Upper

62 100

64 32.2 25.4 38.2





#5

Bromomethane

Concen: 39.827 ug/l

RT: 2.54 min Scan# 239

Delta R.T. 0.00 min

Lab File: VN058230.D

Acq: 20 Sep 2019 1:09

Instrument :

MSVOA_N

ClientSampleId :

RE123D1-20190912MS

Tot Ion: 94 Resp: 67225

Ion Ratio Lower Upper

94 100

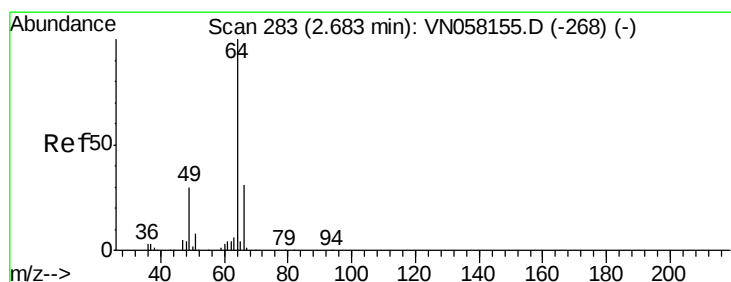
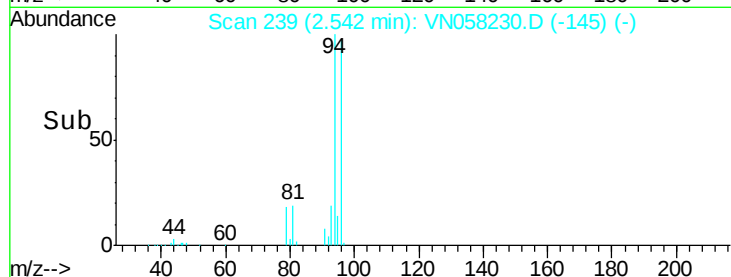
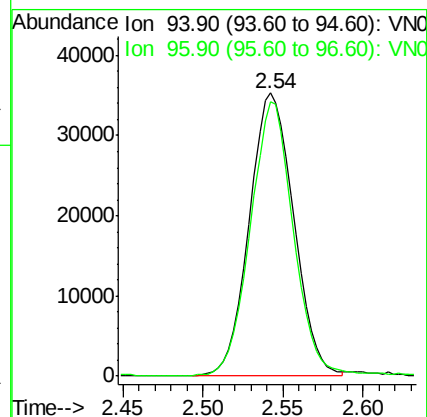
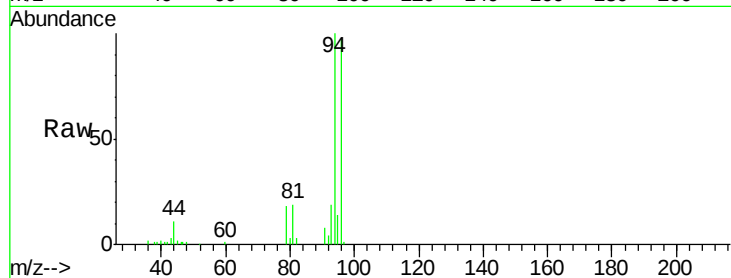
96 97.2 73.3 109.9

Manual Integrations

APPROVED

MMDadoda

9/20/2019 3:36:56 PM



#6

Chloroethane

Concen: 53.337 ug/l

RT: 2.68 min Scan# 283

Delta R.T. 0.00 min

Lab File: VN058230.D

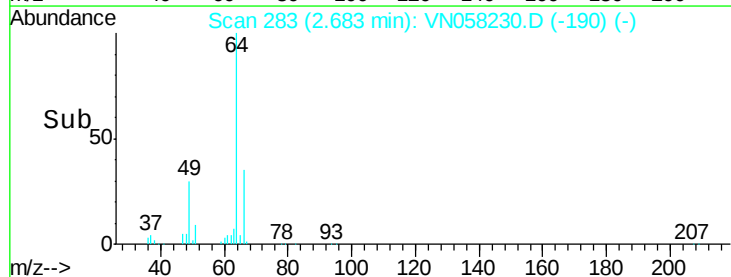
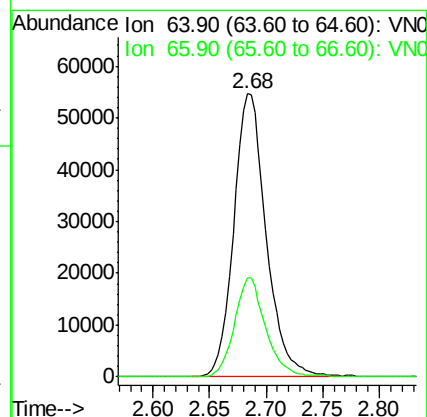
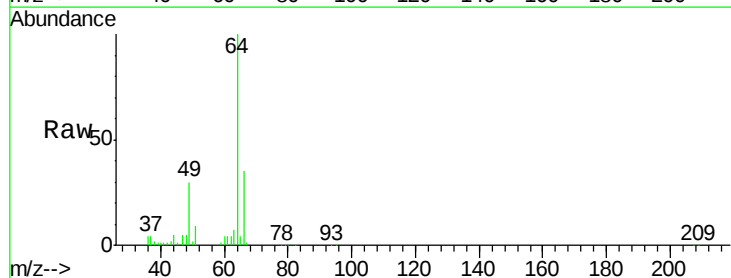
Acq: 20 Sep 2019 1:09

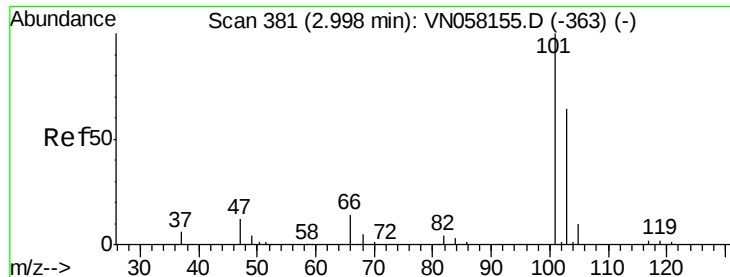
Tgt Ion: 64 Resp: 109112

Ion Ratio Lower Upper

64 100

66 35.0 24.6 37.0





#7

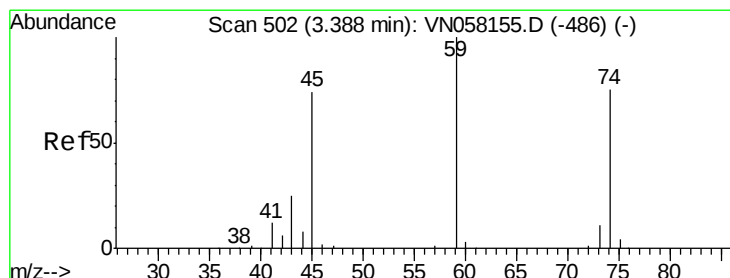
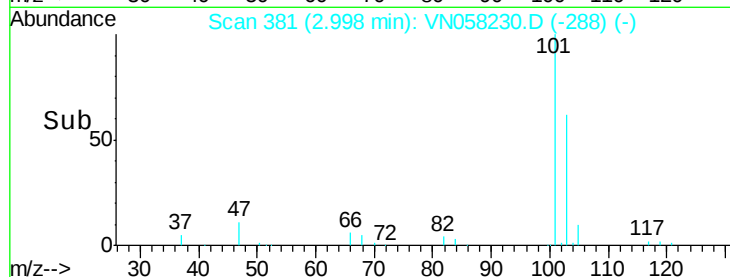
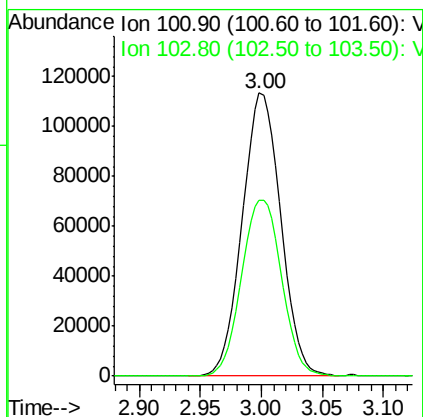
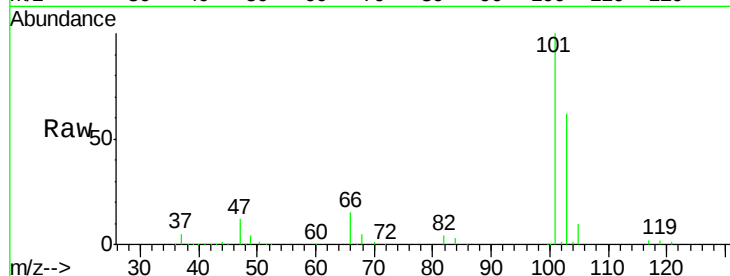
Trichlorofluoromethane
Concen: 47.792 ug/l
RT: 3.00 min Scan# 381
Delta R.T. -0.00 min
Lab File: VN058230.D
Acq: 20 Sep 2019 1:09

Instrument :
MSVOA_N
ClientSampleId :
RE123D1-20190912MS

Tot Ion:101 Resp: 247702
Ion Ratio Lower Upper
101 100
103 62.3 51.0 76.6

Manual Integrations
APPROVED

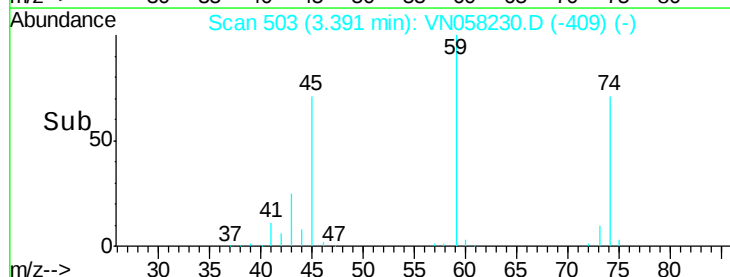
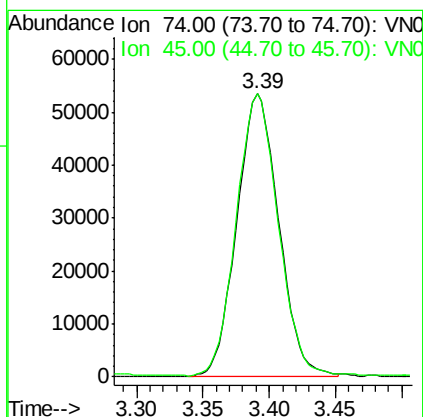
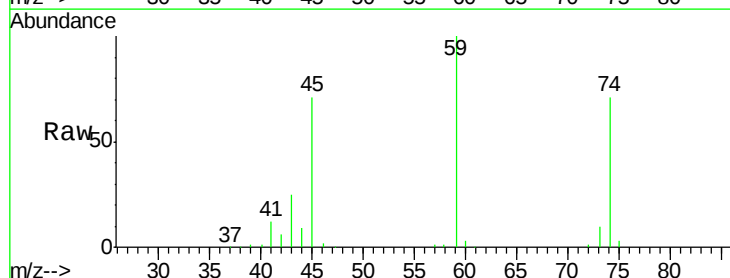
MMDadoda
9/20/2019 3:36:56 PM

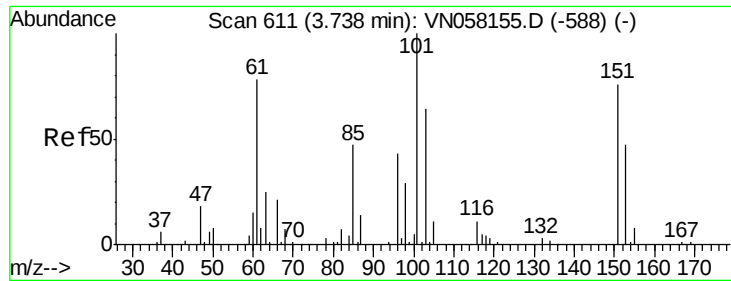


#8

Diethyl Ether
Concen: 49.377 ug/l
RT: 3.39 min Scan# 503
Delta R.T. 0.00 min
Lab File: VN058230.D
Acq: 20 Sep 2019 1:09

Tgt Ion: 74 Resp: 117259
Ion Ratio Lower Upper
74 100
45 99.8 48.5 145.5





#9

1,1,2-Trichlorotrifluoroethane

Concen: 48.100 ug/l

RT: 3.74 min Scan# 612

Delta R.T. 0.00 min

Lab File: VN058230.D

Acq: 20 Sep 2019 1:09

Instrument :

MSVOA_N

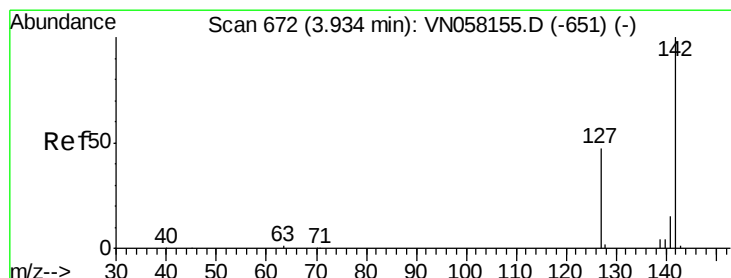
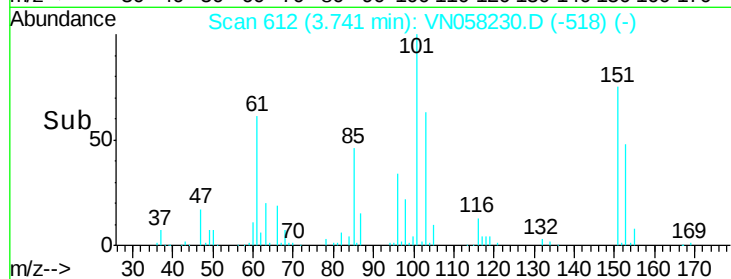
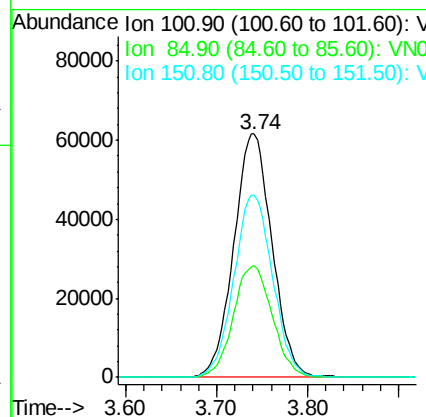
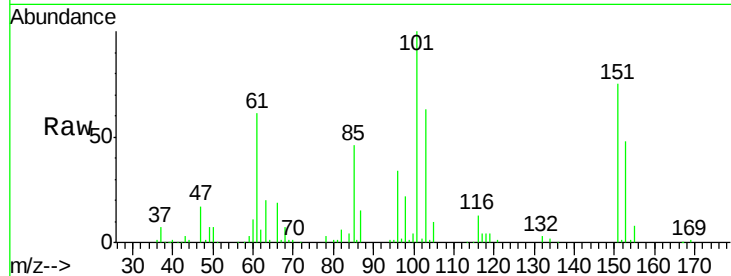
ClientSampleId :

RE123D1-20190912MS

Tot Ion:	101	Resp:	179742
Ion Ratio	Lower	Upper	
101	100		
85	46.7	37.3	55.9
151	76.0	59.6	89.4

Manual Integrations
APPROVED

MMDadoda
9/20/2019 3:36:56 PM



#10

Methyl Iodide

Concen: 37.686 ug/l

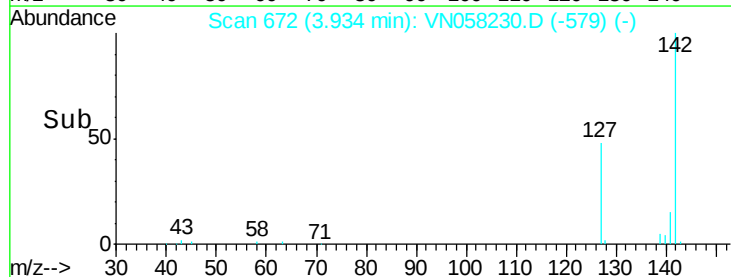
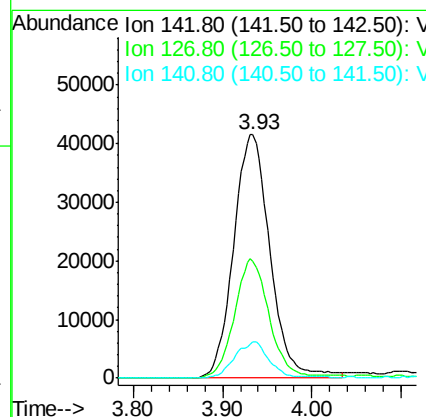
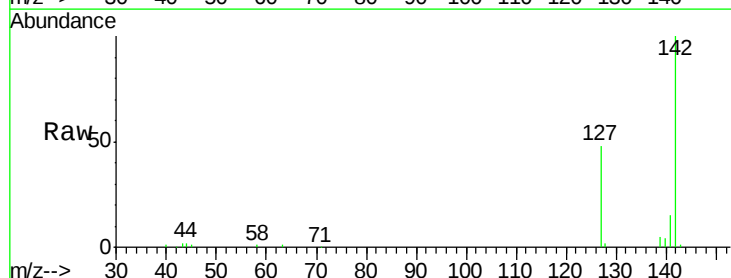
RT: 3.93 min Scan# 672

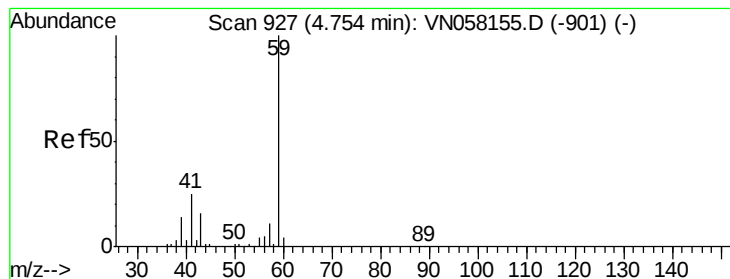
Delta R.T. -0.00 min

Lab File: VN058230.D

Acq: 20 Sep 2019 1:09

Tgt Ion:	142	Resp:	118003
Ion Ratio	Lower	Upper	
142	100		
127	46.2	37.5	56.3
141	13.9	11.4	17.2





#11

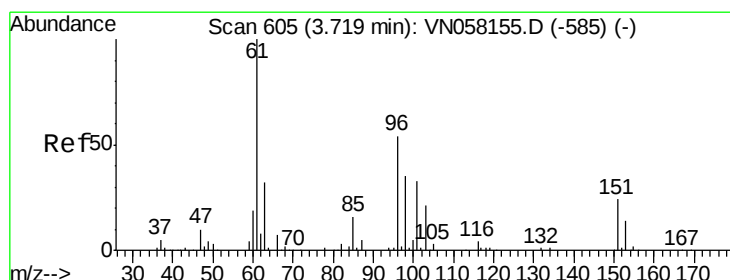
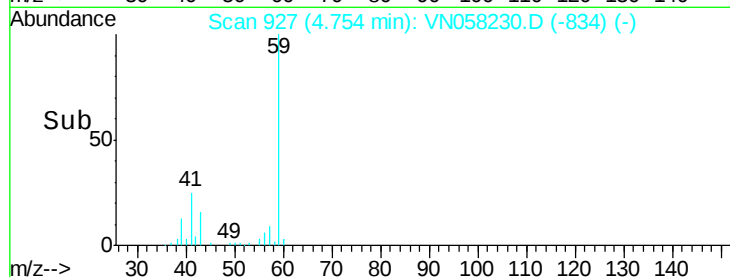
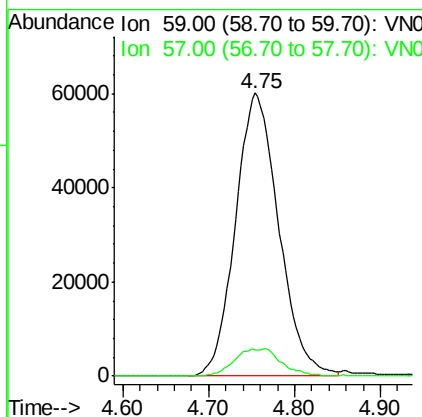
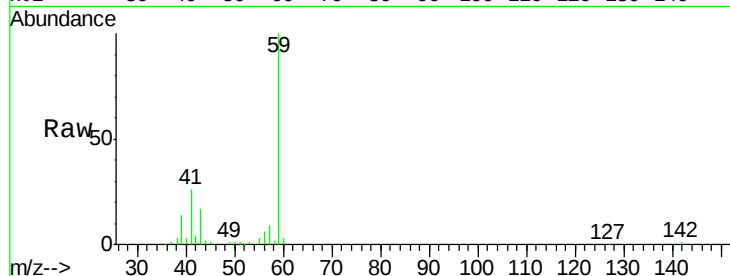
Tert butyl alcohol
Concen: 274.665 ug/l
RT: 4.75 min Scan# 927
Delta R.T. -0.00 min
Lab File: VN058230.D
Acq: 20 Sep 2019 1:09

Instrument :
MSVOA_N
ClientSampleId :
RE123D1-20190912MS

Tot Ion	Ratio	Resp	Lower	Upper
59	100	210342		
57	5.5	8.6	13.0#	

Manual Integrations
APPROVED

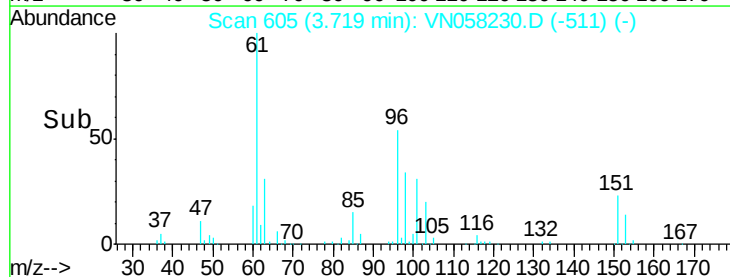
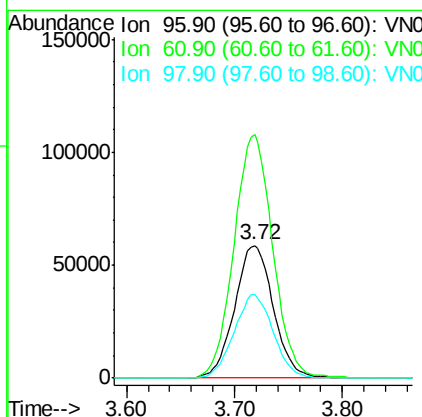
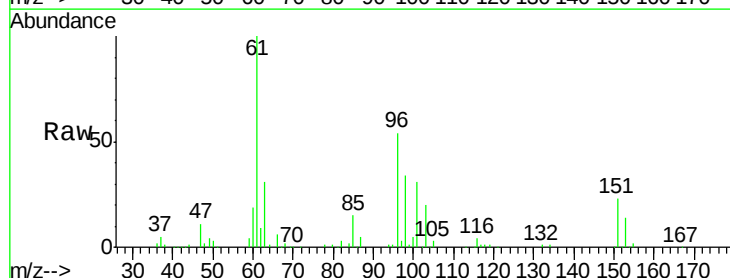
MMDadoda
9/20/2019 3:36:56 PM

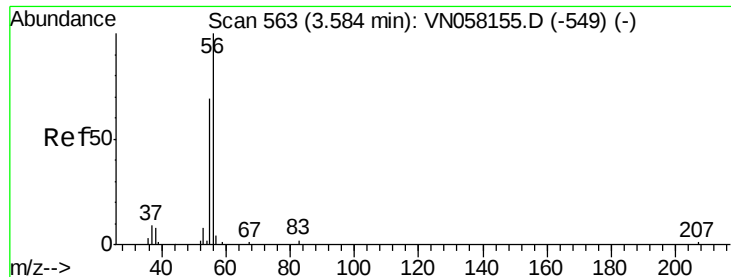


#12

1,1-Dichloroethene
Concen: 51.708 ug/l
RT: 3.72 min Scan# 605
Delta R.T. 0.00 min
Lab File: VN058230.D
Acq: 20 Sep 2019 1:09

Tgt Ion	Ratio	Resp	Lower	Upper
96	100	146601		
61	183.5	149.5	224.3	
98	63.0	52.4	78.6	





#13

Acrolein

Concen: 295.566 ug/l

RT: 3.59 min Scan# 565

Delta R.T. 0.01 min

Lab File: VN058230.D

Acq: 20 Sep 2019 1:09

Instrument :

MSVOA_N

ClientSampleId :

RE123D1-20190912MS

Tot Ion: 56 Resp: 33544

Ion Ratio Lower Upper

56 100

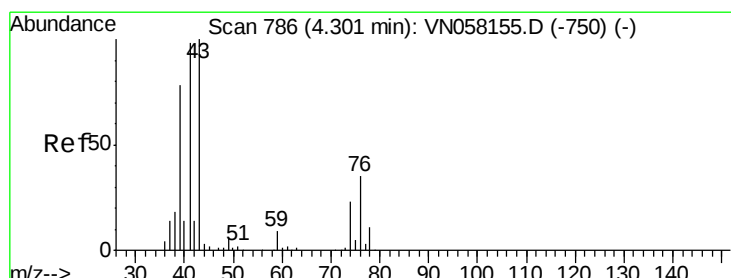
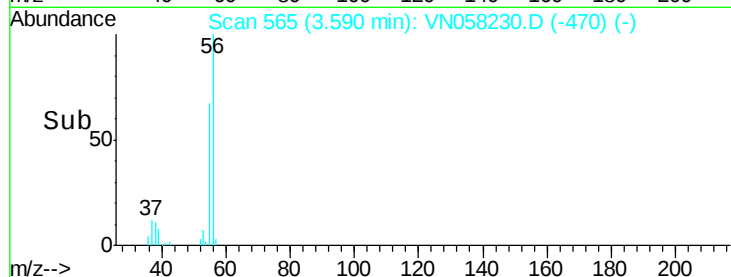
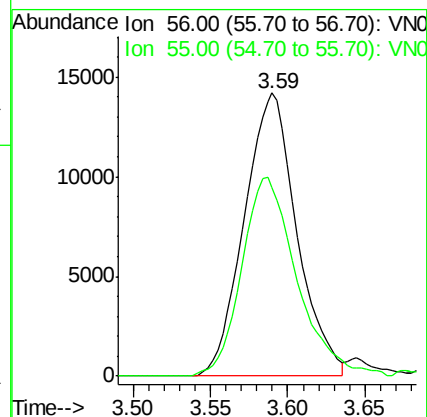
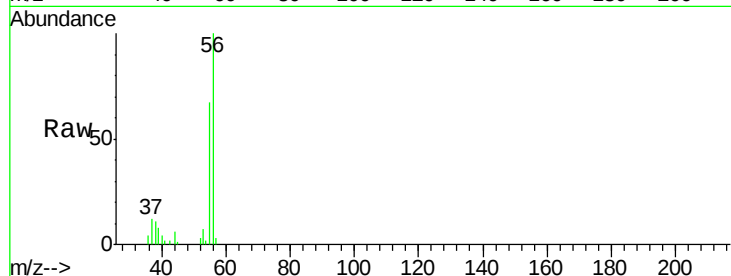
55 73.7 56.1 84.1

Manual Integrations

APPROVED

MMDadoda

9/20/2019 3:36:56 PM



#14

Allyl chloride

Concen: 47.963 ug/l

RT: 4.30 min Scan# 786

Delta R.T. -0.00 min

Lab File: VN058230.D

Acq: 20 Sep 2019 1:09

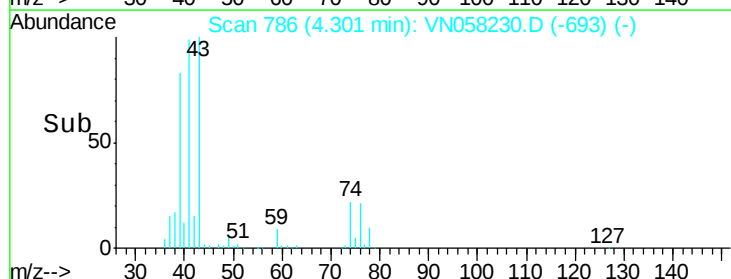
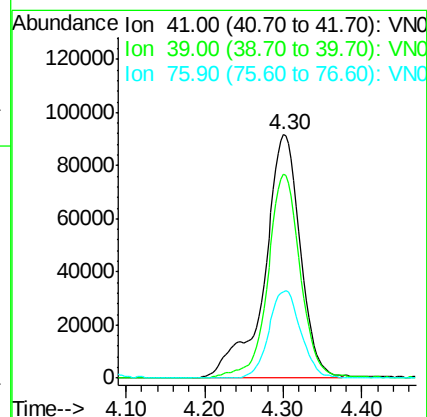
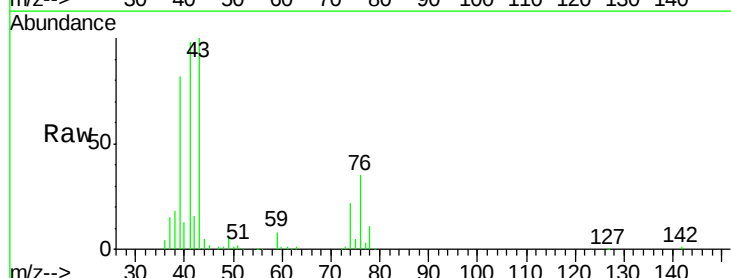
Tgt Ion: 41 Resp: 293276

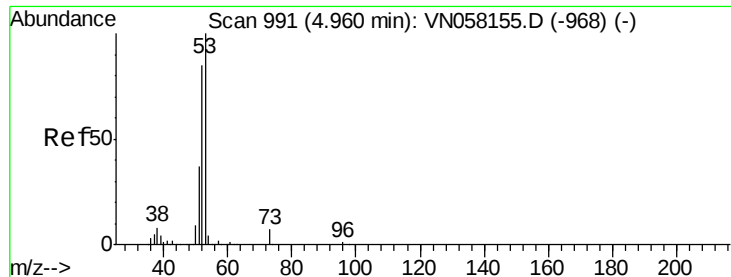
Ion Ratio Lower Upper

41 100

39 75.0 59.1 88.7

76 32.0 25.1 37.7





#15

Acrylonitrile

Concen: 272.732 ug/l

RT: 4.96 min Scan# 991

Delta R.T. -0.00 min

Lab File: VN058230.D

Acq: 20 Sep 2019 1:09

Instrument :

MSVOA_N

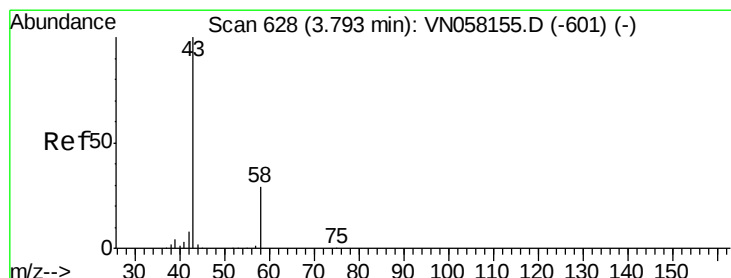
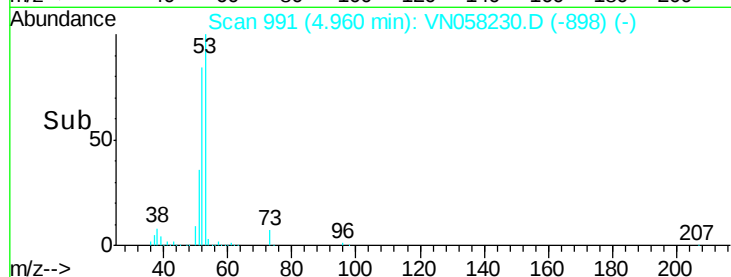
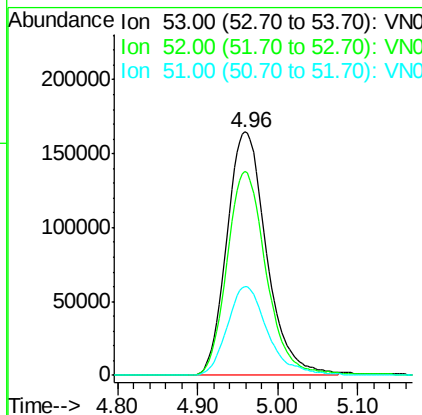
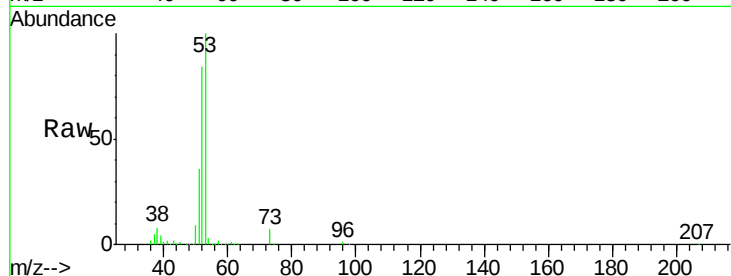
ClientSampleId :

RE123D1-20190912MS

Tot Ion:	53	Resp:	556467
Ion Ratio	Lower	Upper	
53	100		
52	82.4	66.6	100.0
51	37.2	29.7	44.5

Manual Integrations
APPROVED

MMDadoda
9/20/2019 3:36:56 PM



#16

Acetone

Concen: 223.486 ug/l

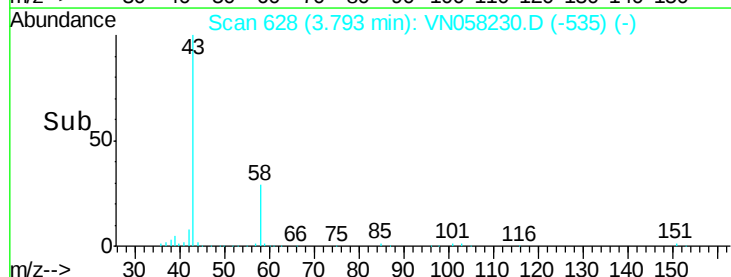
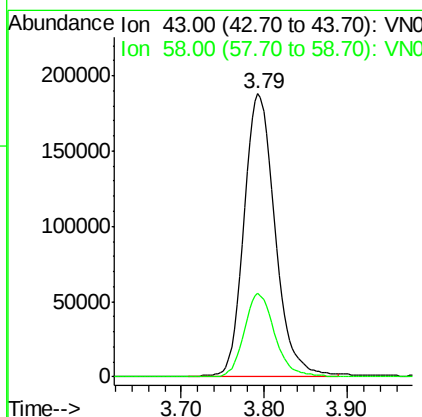
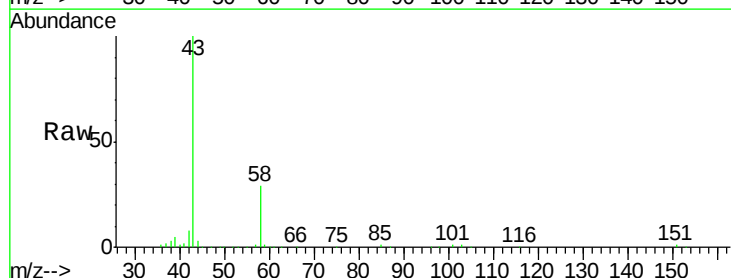
RT: 3.79 min Scan# 628

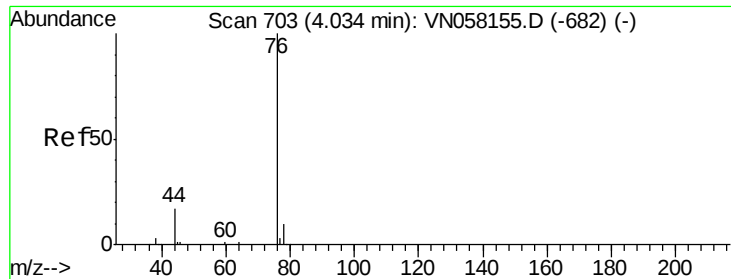
Delta R.T. -0.00 min

Lab File: VN058230.D

Acq: 20 Sep 2019 1:09

Tgt Ion:	43	Resp:	488386
Ion Ratio	Lower	Upper	
43	100		
58	29.4	23.4	35.2





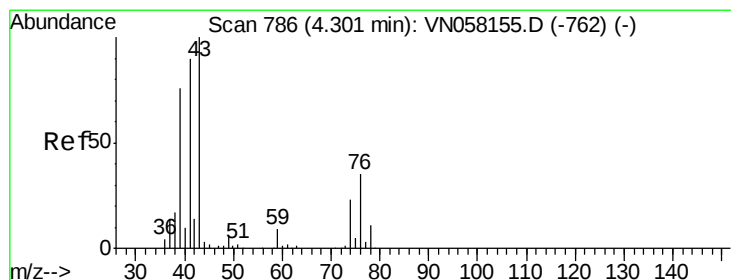
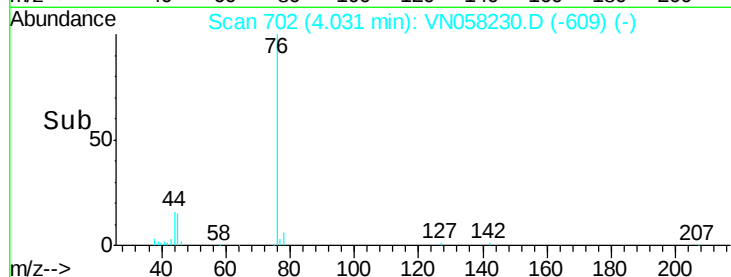
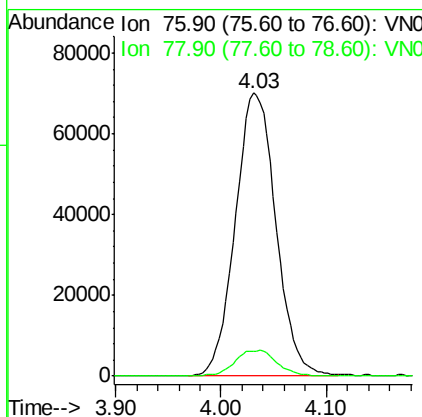
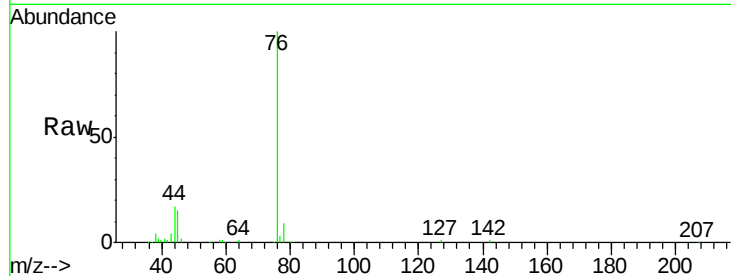
#17
Carbon Disulfide
Concen: 46.995 ug/l
RT: 4.03 min Scan# 702
Delta R.T. -0.00 min
Lab File: VN058230.D
Acq: 20 Sep 2019 1:09

Instrument :
MSVOA_N
ClientSampleId :
RE123D1-20190912MS

Tot Ion: 76 Resp: 187524
Ion Ratio Lower Upper
76 100
78 8.8 7.7 11.5

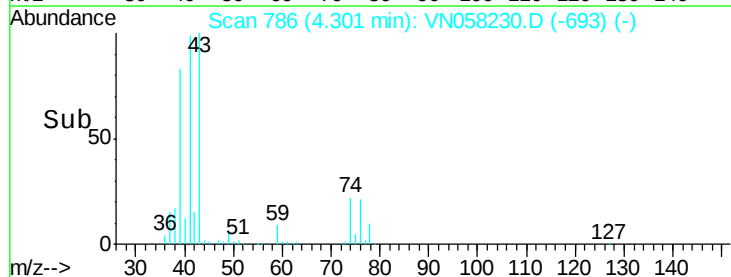
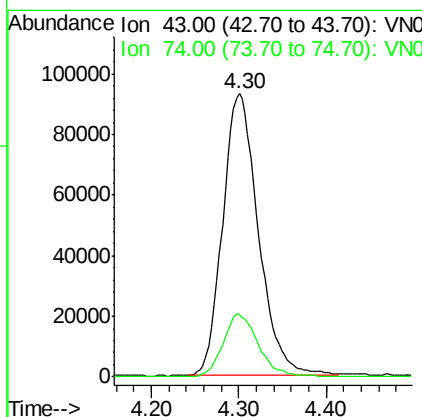
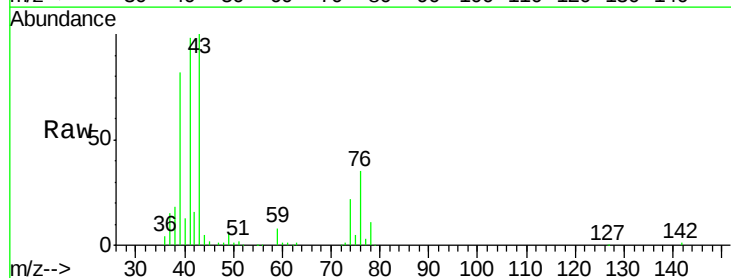
Manual Integrations
APPROVED

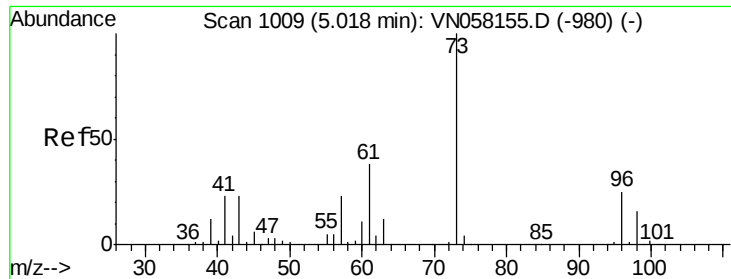
MMDadoda
9/20/2019 3:36:56 PM



#18
Methyl Acetate
Concen: 45.800 ug/l
RT: 4.30 min Scan# 786
Delta R.T. -0.00 min
Lab File: VN058230.D
Acq: 20 Sep 2019 1:09

Tgt Ion: 43 Resp: 263362
Ion Ratio Lower Upper
43 100
74 22.2 18.0 27.0





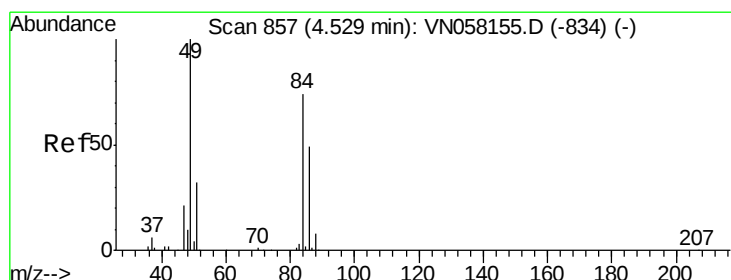
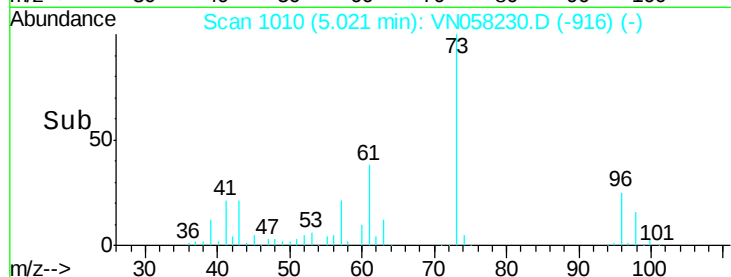
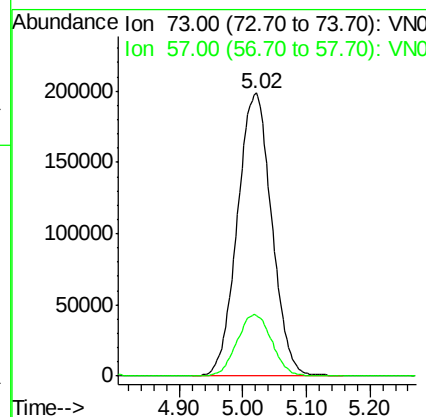
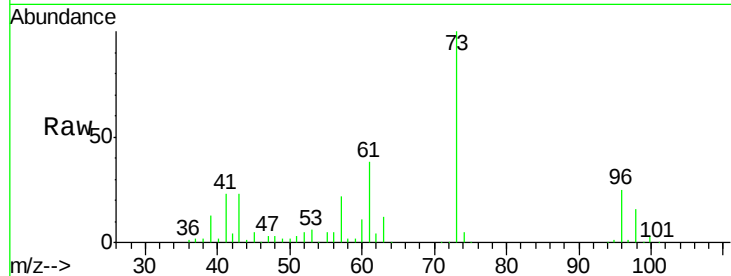
#19
Methvl tert-butvl Ether
Concen: 52.848 ug/l
RT: 5.02 min Scan# 1010
Delta R.T. 0.00 min
Lab File: VN058230.D
Acq: 20 Sep 2019 1:09

Instrument :
MSVOA_N
ClientSampleId :
RE123D1-20190912MS

Tot Ion: 73 Resp: 744847
Ion Ratio Lower Upper
73 100
57 21.6 18.1 27.1

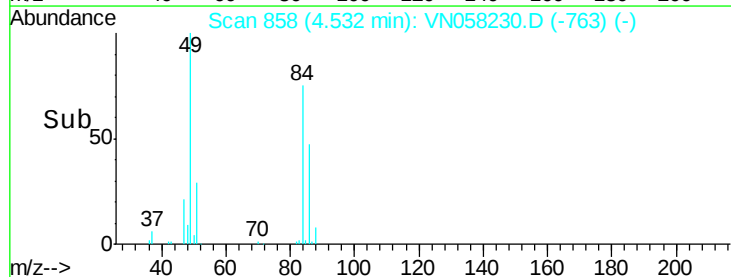
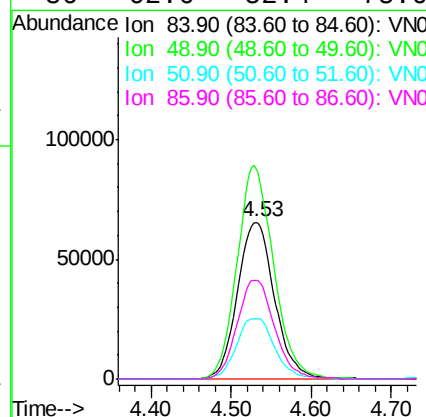
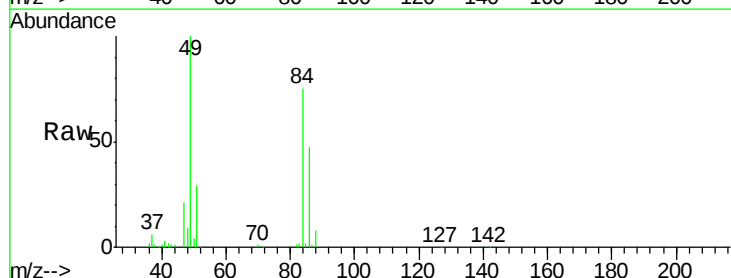
Manual Integrations
APPROVED

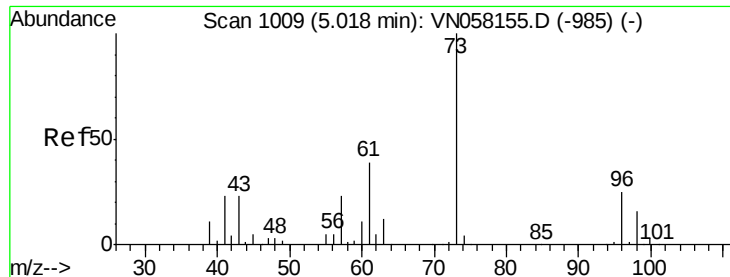
MMDadoda
9/20/2019 3:36:56 PM



#20
Methylene Chloride
Concen: 53.788 ug/l
RT: 4.53 min Scan# 858
Delta R.T. 0.00 min
Lab File: VN058230.D
Acq: 20 Sep 2019 1:09

Tgt Ion: 84 Resp: 205728
Ion Ratio Lower Upper
84 100
49 132.5 107.5 161.3
51 38.5 33.9 50.9
86 62.6 52.4 78.6





#21

trans-1,2-Dichloroethene

Concen: 51.581 ug/l

RT: 5.02 min Scan# 1009

Delta R.T. 0.00 min

Lab File: VN058230.D

Acq: 20 Sep 2019 1:09

Instrument :

MSVOA_N

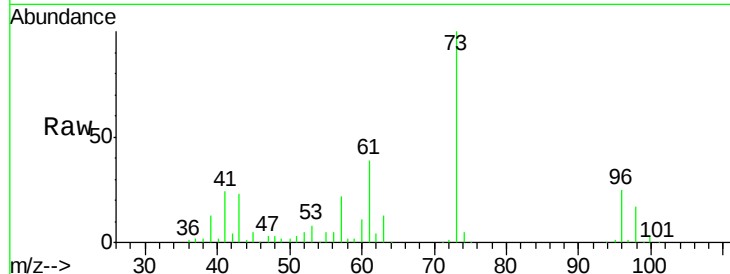
ClientSampleId :

RE123D1-20190912MS

Tot Ion:	96	Resp:	159354
Ion	Ratio	Lower	Upper
96	100		
61	153.1	122.2	183.4
98	65.9	49.9	74.9

Manual Integrations
APPROVED

MMDadoda
9/20/2019 3:36:56 PM

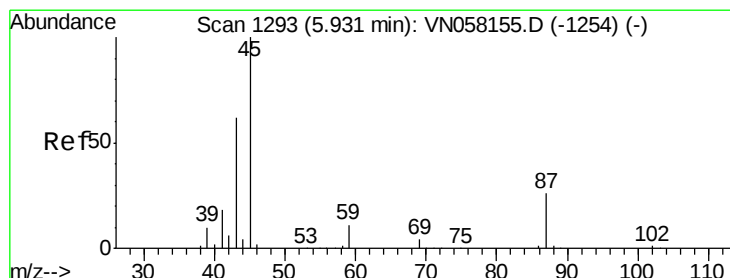
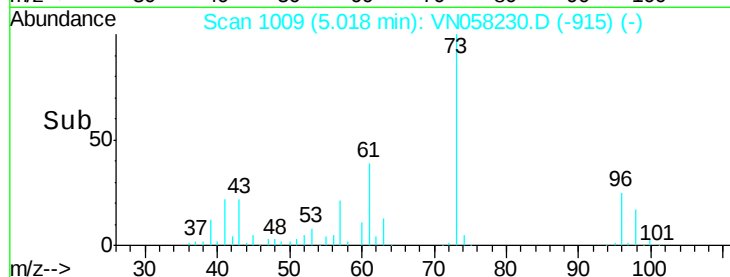
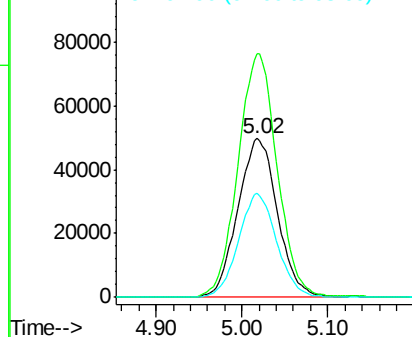


Abundance

Ion 95.90 (95.60 to 96.60): VNO

Ion 60.90 (60.60 to 61.60): VNO

Ion 97.90 (97.60 to 98.60): VNO



#22

Diisopropyl ether

Concen: 52.789 ug/l

RT: 5.93 min Scan# 1292

Delta R.T. -0.00 min

Lab File: VN058230.D

Acq: 20 Sep 2019 1:09

Tgt Ion:	45	Resp:	819943
Ion	Ratio	Lower	Upper
45	100		
43	65.0	49.7	74.5
87	25.5	20.7	31.1
59	11.3	9.1	13.7

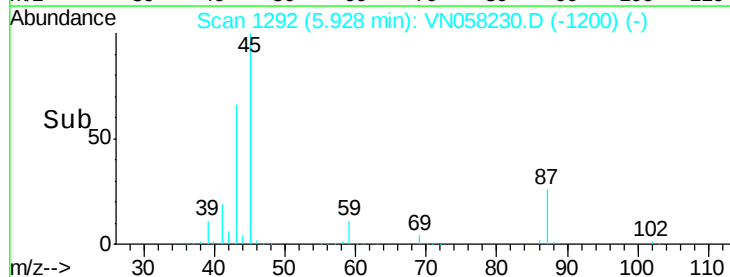
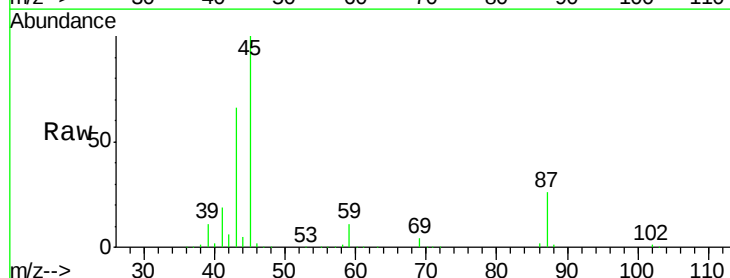
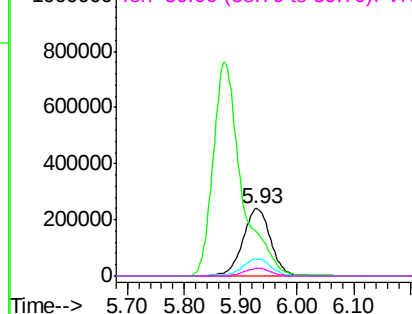
Abundance

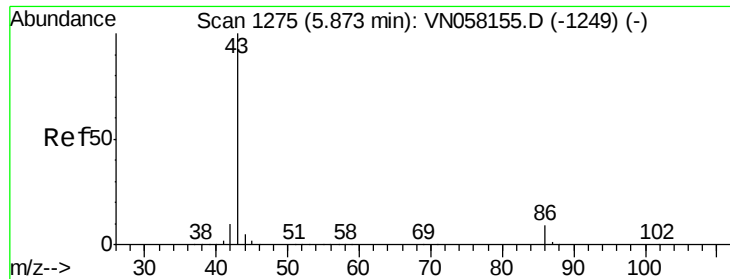
Ion 45.00 (44.70 to 45.70): VNO

Ion 43.00 (42.70 to 43.70): VNO

Ion 87.00 (86.70 to 87.70): VNO

Ion 59.00 (58.70 to 59.70): VNO





#23

Vinyl Acetate

Concen: 249.366 ug/l

RT: 5.87 min Scan# 1275

Delta R.T. -0.00 min

Lab File: VN058230.D

Acq: 20 Sep 2019 1:09

Instrument :

MSVOA_N

ClientSampleId :

RE123D1-20190912MS

Tot Ion: 43 Resp: 2650305

Ion Ratio Lower Upper

43 100

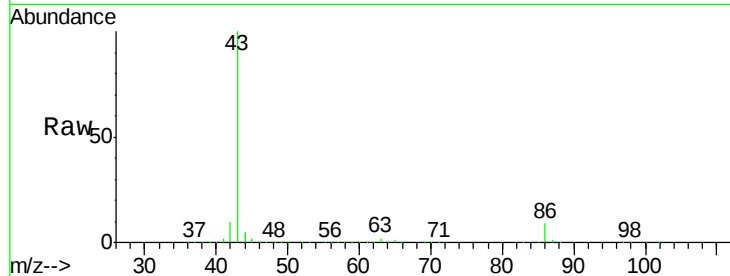
86 9.1 7.4 11.2

Manual Integrations

APPROVED

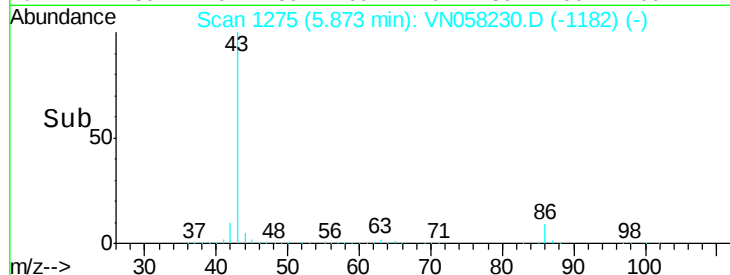
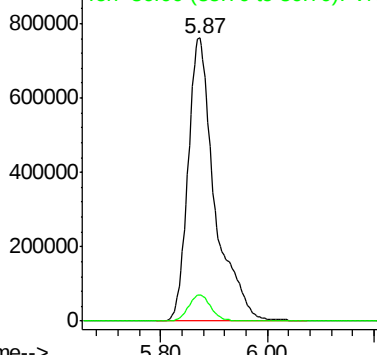
MMDadoda

9/20/2019 3:36:56 PM

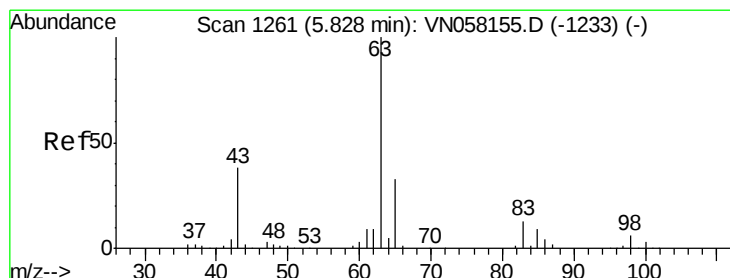


Abundance Ion 43.00 (42.70 to 43.70): VN0

Ion 86.00 (85.70 to 86.70): VN0



Time-->



#24

1,1-Dichloroethane

Concen: 51.441 ug/l

RT: 5.82 min Scan# 1260

Delta R.T. -0.00 min

Lab File: VN058230.D

Acq: 20 Sep 2019 1:09

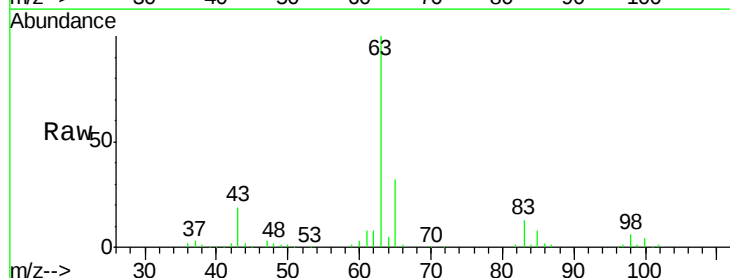
Tgt Ion: 63 Resp: 426448

Ion Ratio Lower Upper

63 100

98 6.2 2.9 8.6

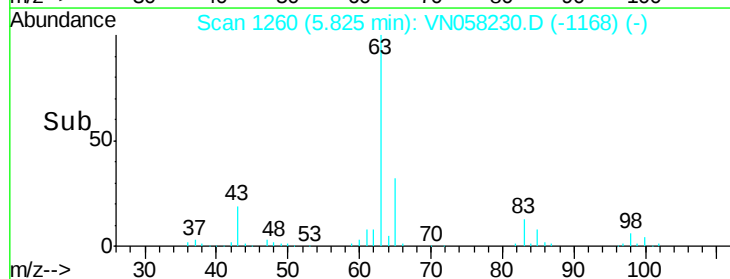
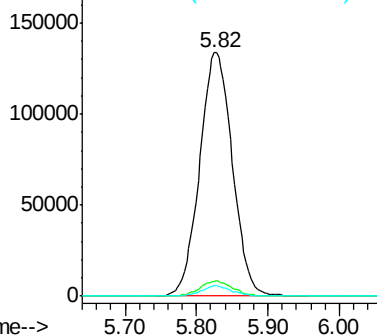
100 4.3 1.8 5.3



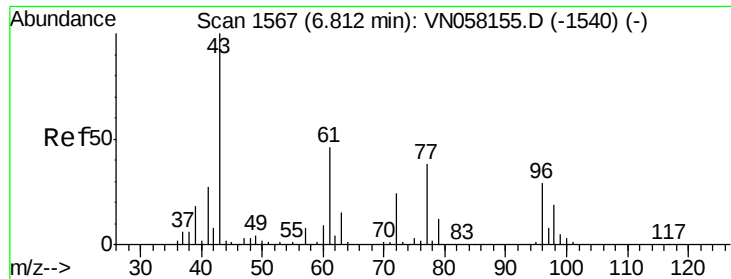
Abundance Ion 62.90 (62.60 to 63.60): VN0

Ion 97.90 (97.60 to 98.60): VN0

Ion 99.90 (99.60 to 100.60): VN0



Time-->



#25

2-Butanone

Concen: 258.750 ug/l

RT: 6.82 min Scan# 1568

Delta R.T. 0.00 min

Lab File: VN058230.D

Acq: 20 Sep 2019 1:09

Instrument :

MSVOA_N

ClientSampleId :

RE123D1-20190912MS

Tot Ion: 43 Resp: 770356

Ion Ratio Lower Upper

43 100

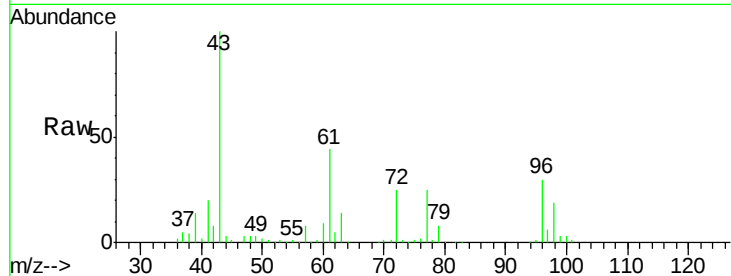
72 25.2 19.5 29.3

Manual Integrations

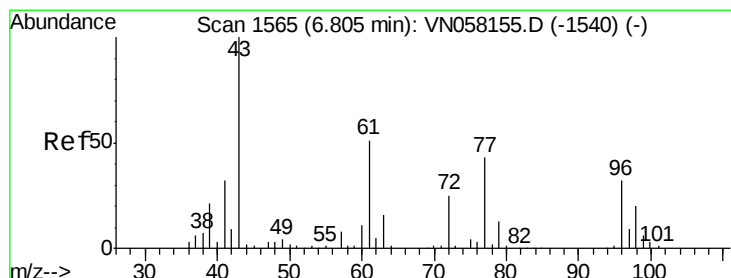
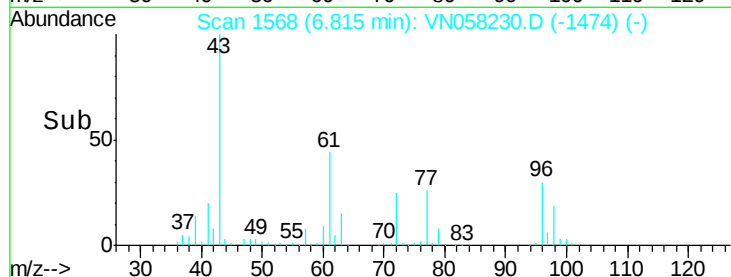
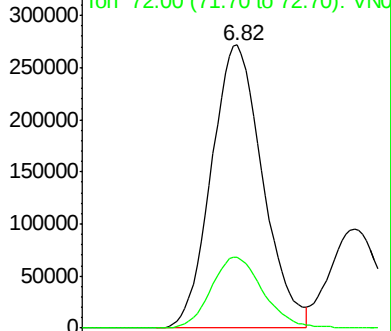
APPROVED

MMDadoda

9/20/2019 3:36:56 PM



Abundance Ion 43.00 (42.70 to 43.70): VN058230.D (-1474) (-)



#26

2,2-Dichloropropane

Concen: 35.284 ug/l

RT: 6.81 min Scan# 1565

Delta R.T. -0.00 min

Lab File: VN058230.D

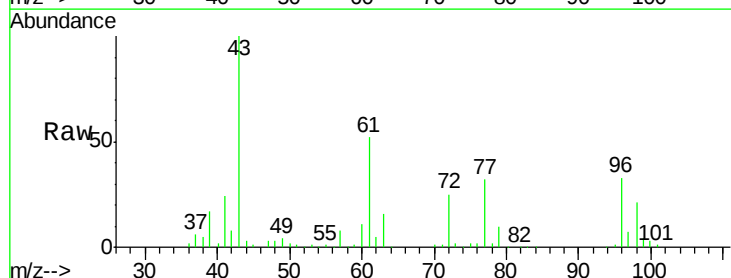
Acq: 20 Sep 2019 1:09

Tgt Ion: 77 Resp: 248150

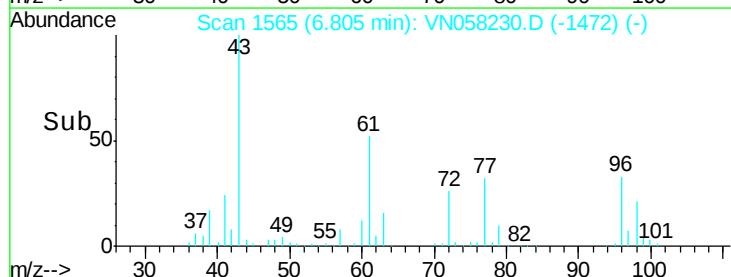
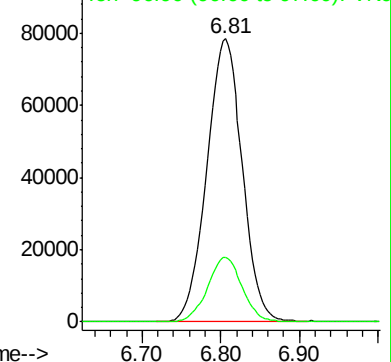
Ion Ratio Lower Upper

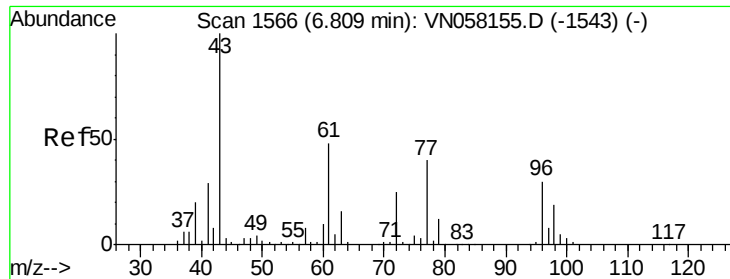
77 100

97 22.2 10.5 31.6



Abundance Ion 76.90 (76.60 to 77.60): VN058230.D (-1472) (-)





#27

cis-1,2-Dichloroethene

Concen: 51.056 ug/l

RT: 6.81 min Scan# 1567

Delta R.T. 0.00 min

Lab File: VN058230.D

Acq: 20 Sep 2019 1:09

Instrument :

MSVOA_N

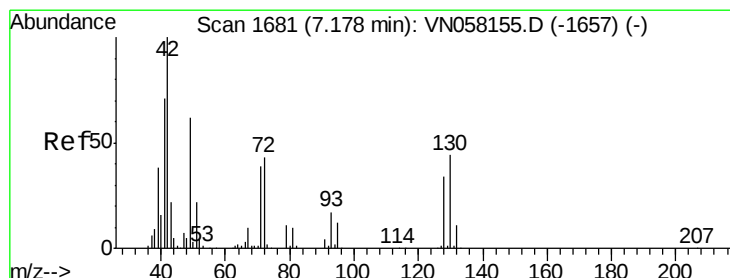
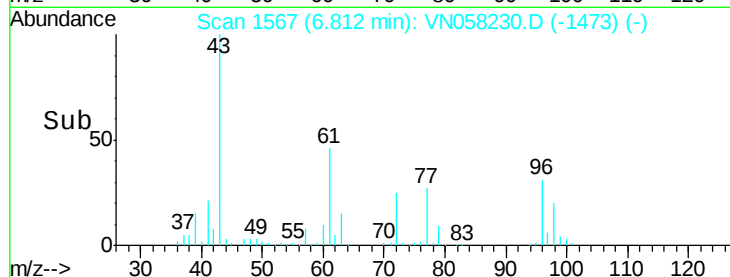
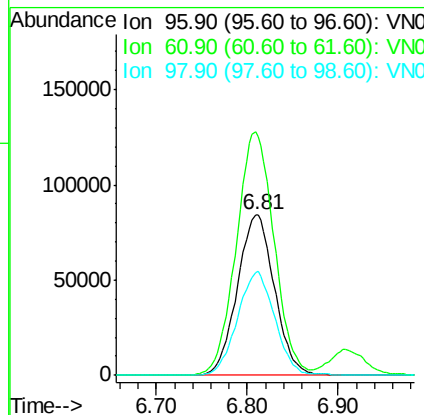
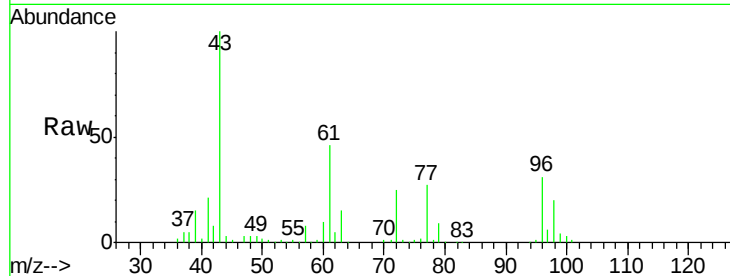
ClientSampleId :

RE123D1-20190912MS

Tot Ion:	96	Resp:	239320
Ion Ratio	Lower	Upper	
96	100		
61	154.0	0.0	319.0
98	64.9	0.0	126.6

Manual Integrations
APPROVED

MMDadoda
9/20/2019 3:36:56 PM



#28

Bromochloromethane

Concen: 55.018 ug/l

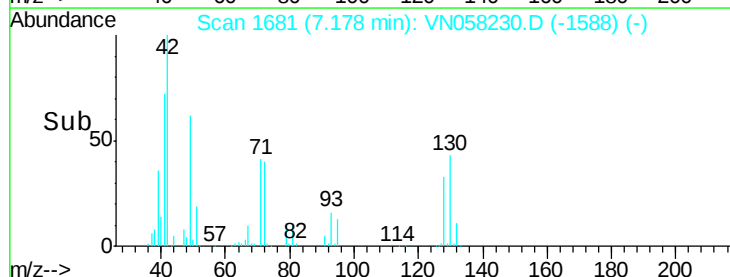
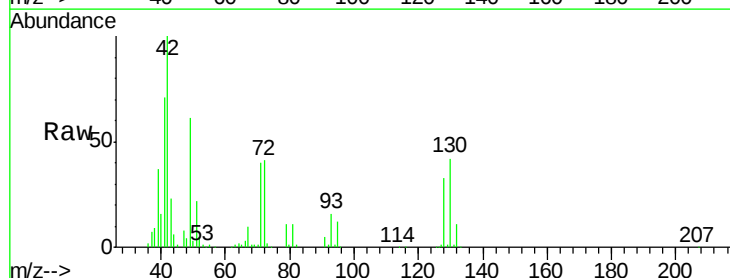
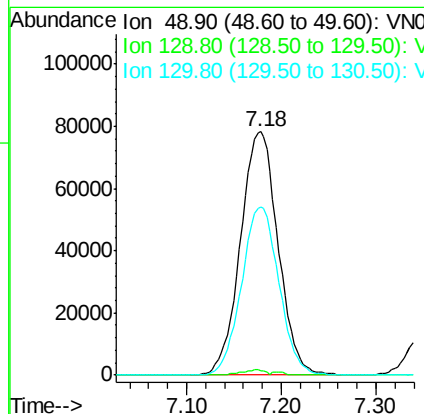
RT: 7.18 min Scan# 1681

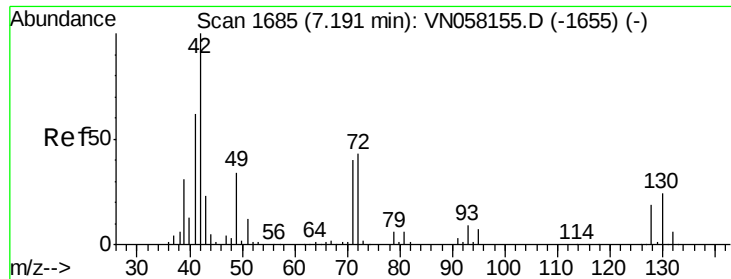
Delta R.T. -0.00 min

Lab File: VN058230.D

Acq: 20 Sep 2019 1:09

Tgt Ion:	49	Resp:	215762
Ion Ratio	Lower	Upper	
49	100		
129	1.3	0.0	1.8
130	68.7	55.4	83.2





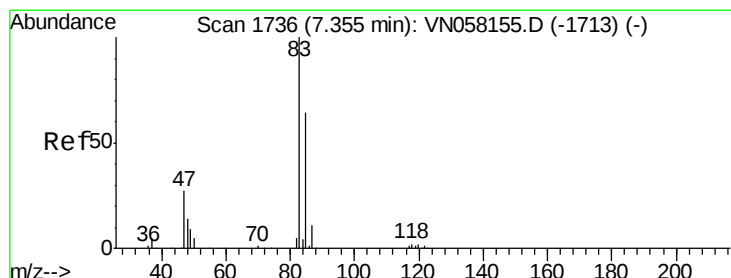
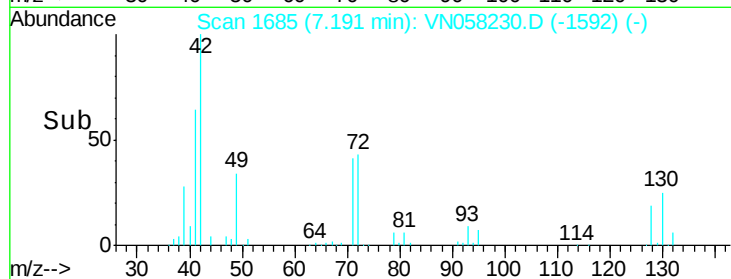
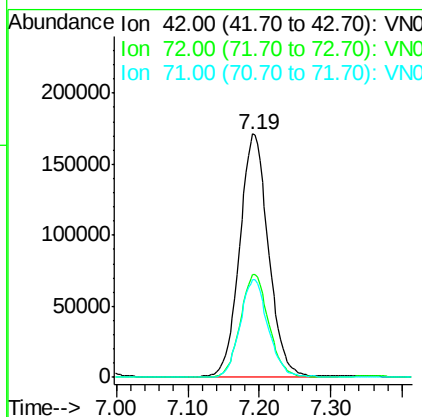
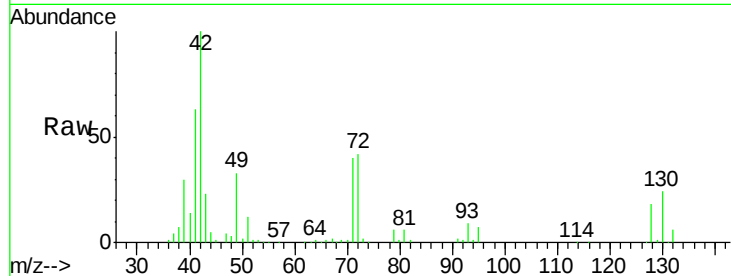
#29
Tetrahydrofuran
Concen: 262.303 ug/l
RT: 7.19 min Scan# 1685
Delta R.T. -0.00 min
Lab File: VN058230.D
Acq: 20 Sep 2019 1:09

Instrument :
MSVOA_N
ClientSampleId :
RE123D1-20190912MS

Tot Ion	Ratio	Lower	Upper
42	100		
72	41.9	33.8	50.6
71	39.1	31.4	47.0

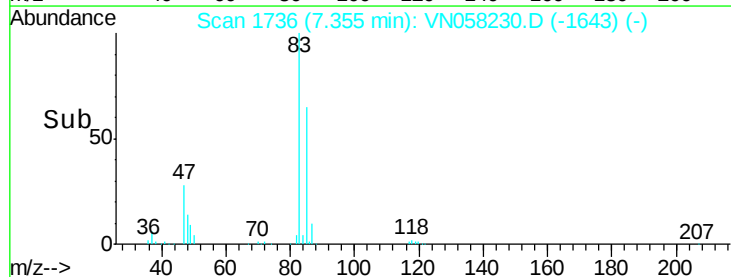
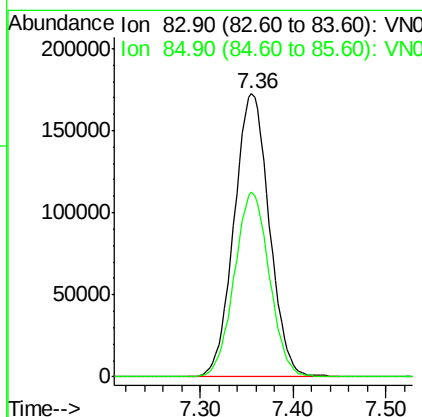
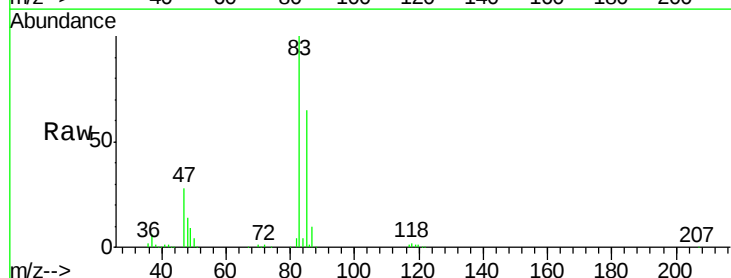
Manual Integrations
APPROVED

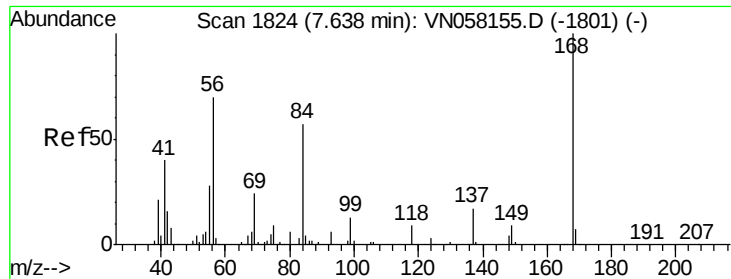
MMDadoda
9/20/2019 3:36:56 PM



#30
Chloroform
Concen: 50.901 ug/l
RT: 7.36 min Scan# 1736
Delta R.T. -0.00 min
Lab File: VN058230.D
Acq: 20 Sep 2019 1:09

Tgt Ion	Ratio	Lower	Upper
83	100		
85	65.1	51.4	77.2





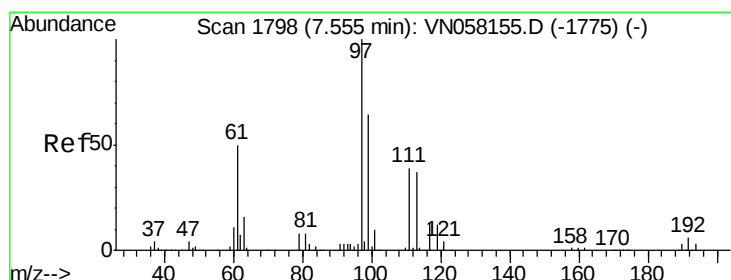
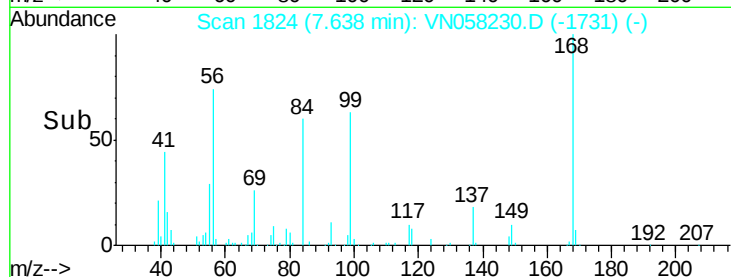
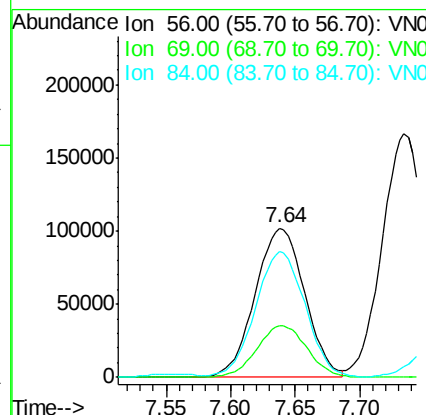
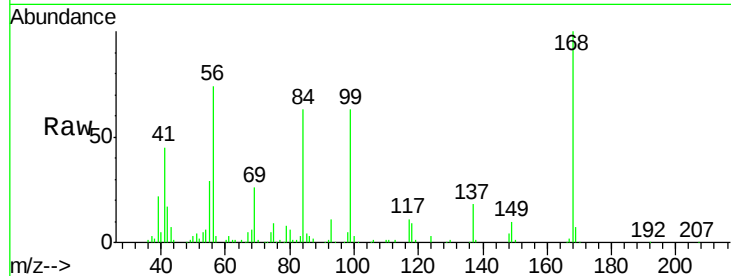
#31
Cyclohexane
Concen: 51.148 ug/l
RT: 7.64 min Scan# 1824
Delta R.T. 0.00 min
Lab File: VN058230.D
Acq: 20 Sep 2019 1:09

Instrument :
MSVOA_N
ClientSampleId :
RE123D1-20190912MS

Tot Ion	Ratio	Lower	Upper
56	100		
69	35.0	27.3	40.9
84	82.9	65.0	97.4

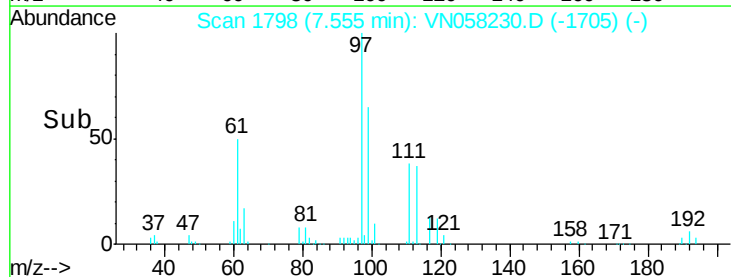
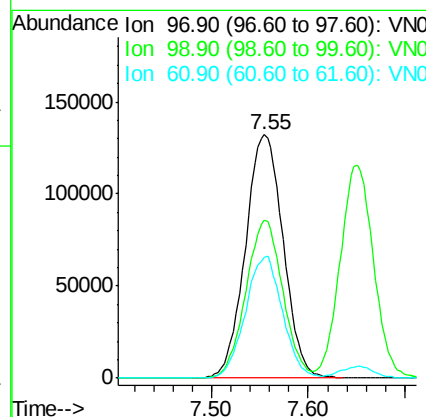
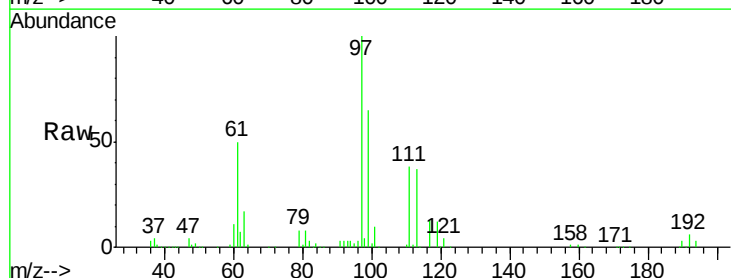
Manual Integrations
APPROVED

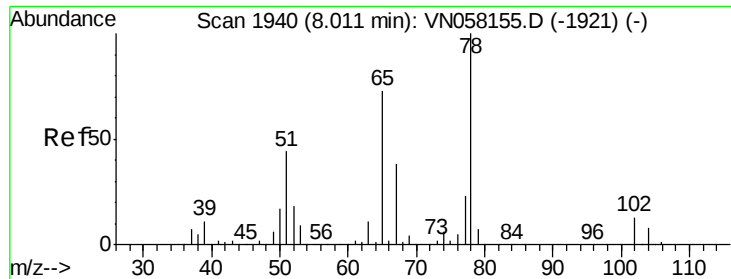
MMDadoda
9/20/2019 3:36:56 PM



#32
1,1,1-Trichloroethane
Concen: 52.740 ug/l
RT: 7.55 min Scan# 1798
Delta R.T. -0.00 min
Lab File: VN058230.D
Acq: 20 Sep 2019 1:09

Tgt Ion	Ratio	Lower	Upper
97	100		
99	63.4	50.9	76.3
61	49.1	39.2	58.8





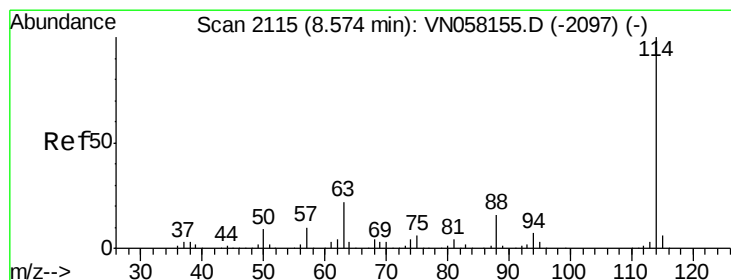
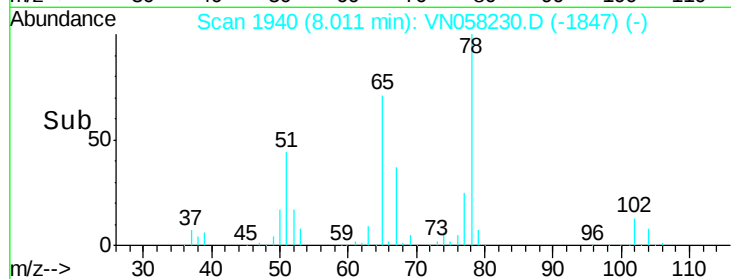
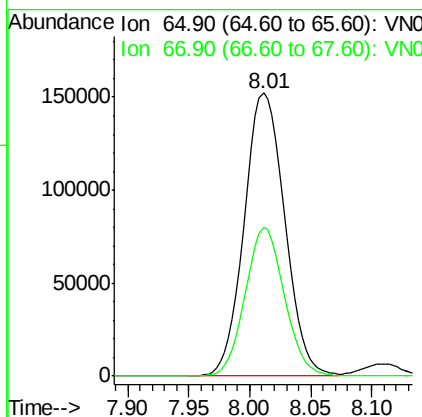
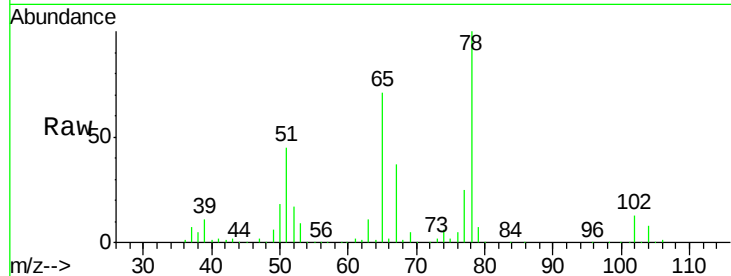
#33
 1,2-Dichloroethane-d4
 Concen: 54.461 ug/l
 RT: 8.01 min Scan# 1940
 Delta R.T. -0.00 min
 Lab File: VN058230.D
 Acq: 20 Sep 2019 1:09

Instrument :
 MSVOA_N
 ClientSampleId :
 RE123D1-20190912MS

Tot Ion	Ratio	Resp	Lower	Upper
65	100			
67	50.5	0.0	103.4	

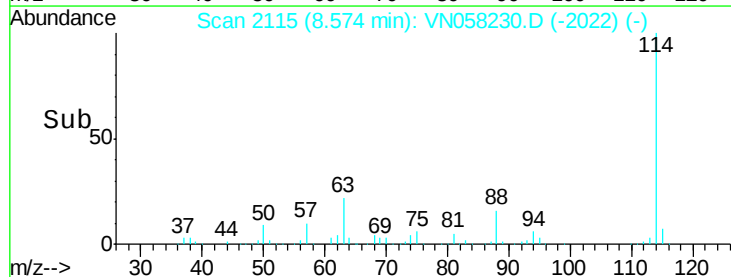
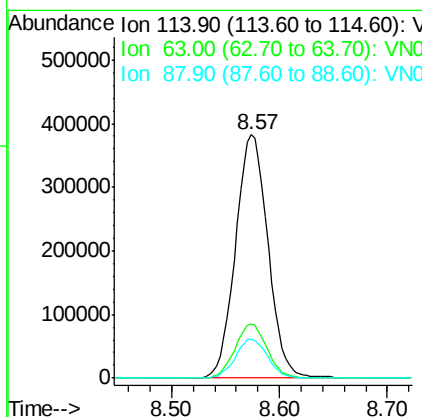
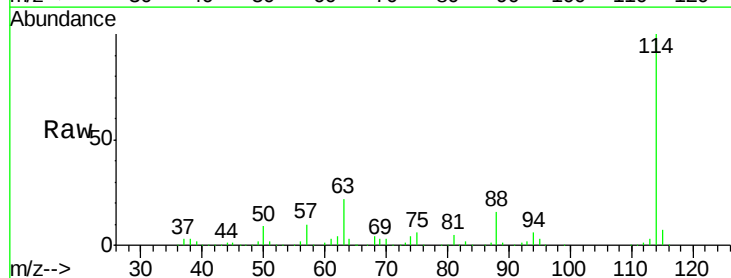
Manual Integrations
 APPROVED

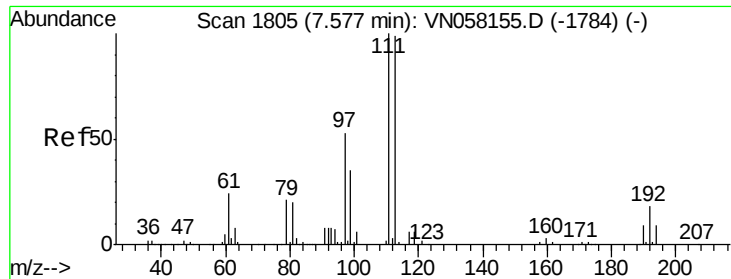
MMDadoda
 9/20/2019 3:36:56 PM



#34
 1,4-Difluorobenzene
 Concen: 50.000 ug/l
 RT: 8.57 min Scan# 2115
 Delta R.T. -0.00 min
 Lab File: VN058230.D
 Acq: 20 Sep 2019 1:09

Tgt Ion	Ratio	Resp	Lower	Upper
114	100			
63	22.3	0.0	44.2	
88	16.0	0.0	31.6	





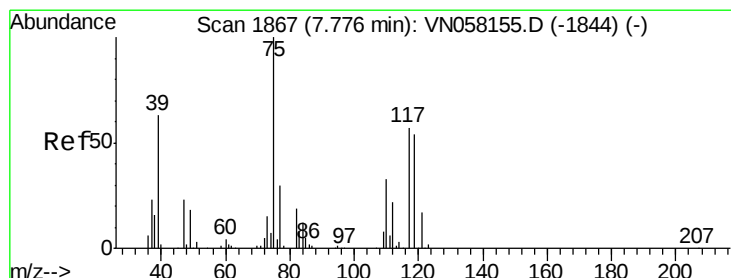
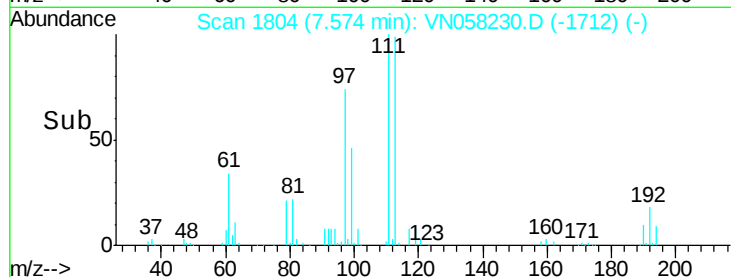
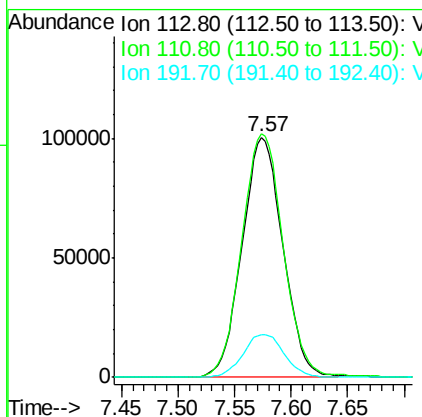
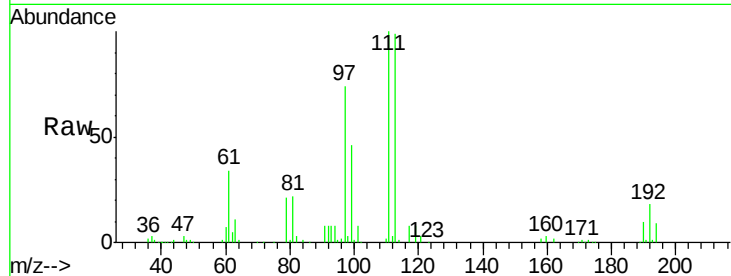
#35
Dibromofluoromethane
Concen: 51.551 ug/l
RT: 7.57 min Scan# 1804
Delta R.T. -0.00 min
Lab File: VN058230.D
Acq: 20 Sep 2019 1:09

Instrument :
MSVOA_N
ClientSampleId :
RE123D1-20190912MS

Tot Ion	Ratio	Resp	Lower	Upper
113	100	251471		
111	104.0	81.8	122.6	
192	18.1	14.5	21.7	

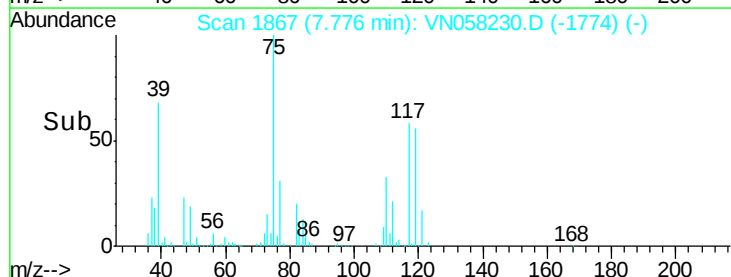
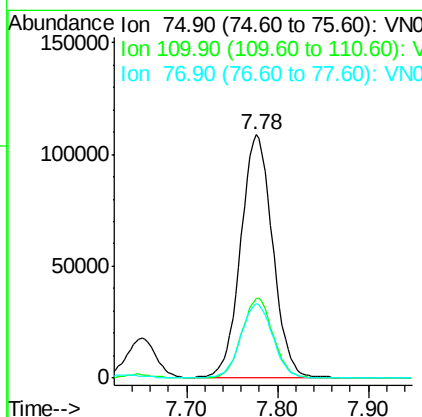
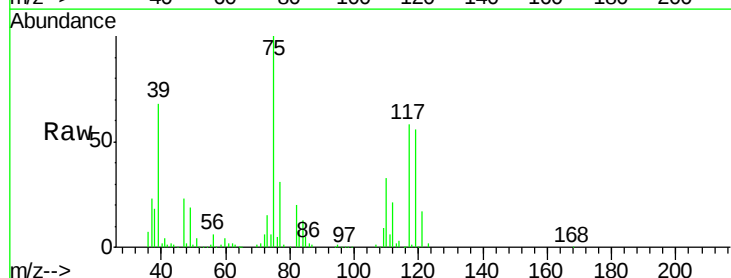
Manual Integrations
APPROVED

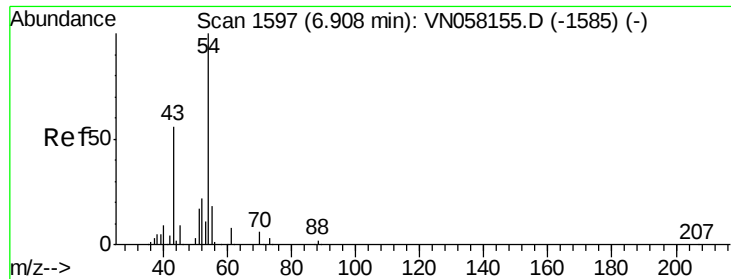
MMDadoda
9/20/2019 3:36:56 PM



#36
1,1-Dichloropropene
Concen: 45.826 ug/l
RT: 7.78 min Scan# 1867
Delta R.T. -0.00 min
Lab File: VN058230.D
Acq: 20 Sep 2019 1:09

Tgt Ion	Ratio	Resp	Lower	Upper
75	100	265181		
110	32.3	16.6	49.7	
77	31.0	24.3	36.5	





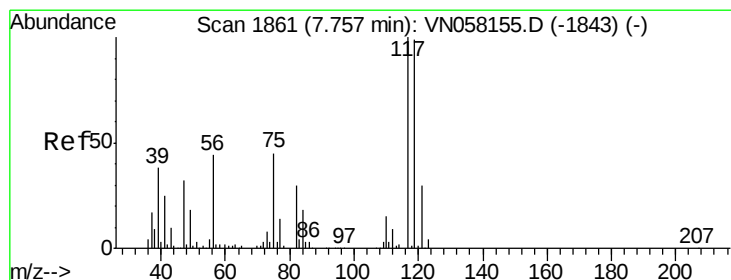
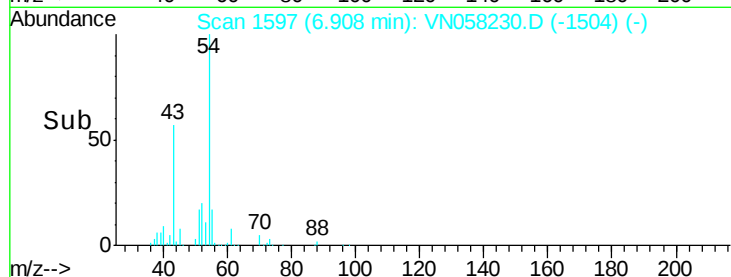
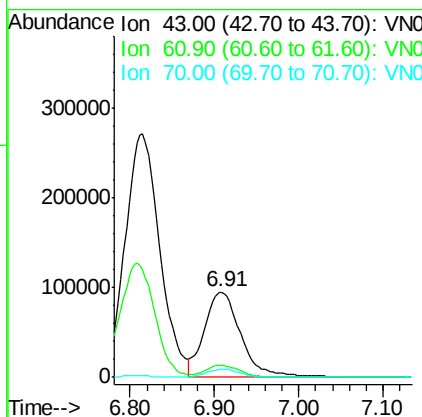
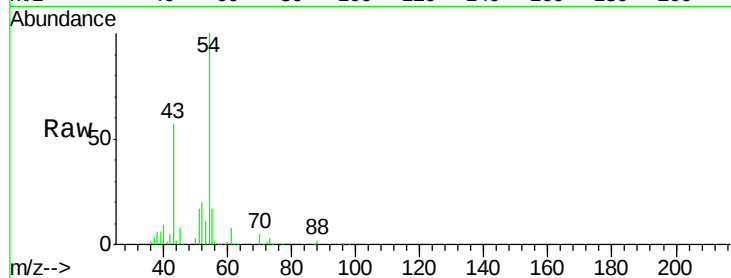
#37
Ethyl Acetate
Concen: 46.482 ug/l
RT: 6.91 min Scan# 1597
Delta R.T. -0.00 min
Lab File: VN058230.D
Acq: 20 Sep 2019 1:09

Instrument :
MSVOA_N
ClientSampleId :
RE123D1-20190912MS

Tot Ion	Ratio	Resp	Lower	Upper
43	100	279140		
61	13.8	10.7	16.1	
70	9.3	7.6	11.4	

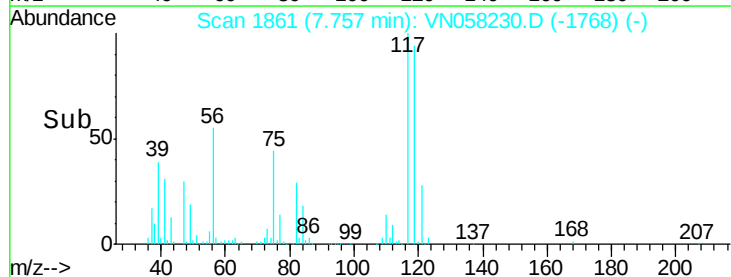
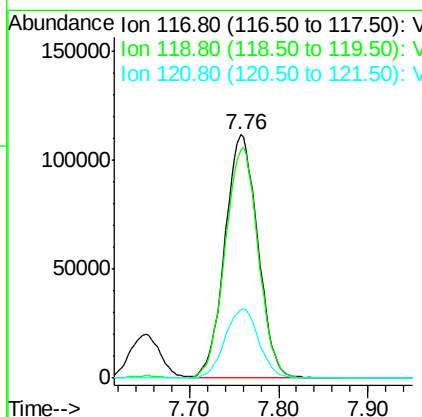
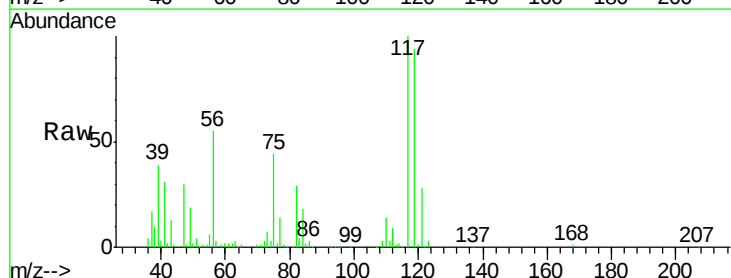
Manual Integrations
APPROVED

MMDadoda
9/20/2019 3:36:56 PM



#38
Carbon Tetrachloride
Concen: 49.109 ug/l
RT: 7.76 min Scan# 1861
Delta R.T. -0.00 min
Lab File: VN058230.D
Acq: 20 Sep 2019 1:09

Tgt Ion	Ratio	Resp	Lower	Upper
117	100	285664		
119	93.5	78.6	117.8	
121	28.0	24.1	36.1	





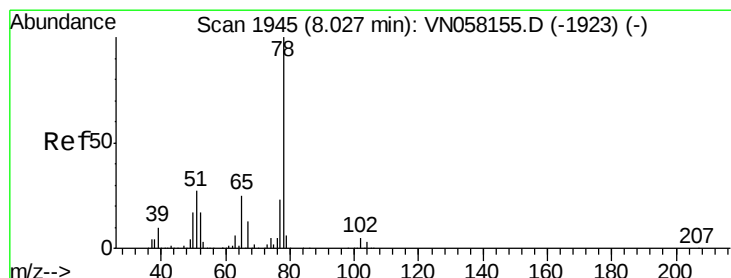
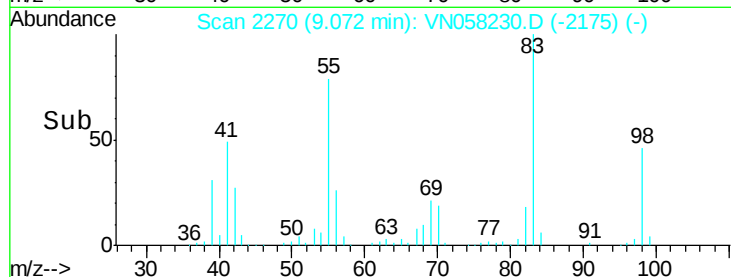
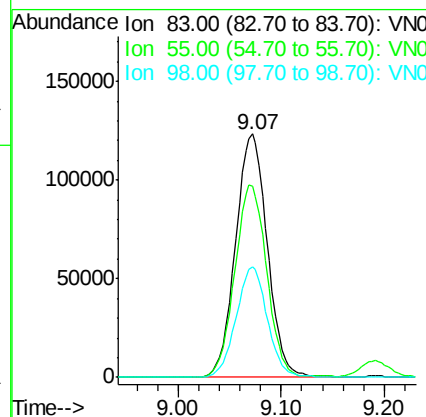
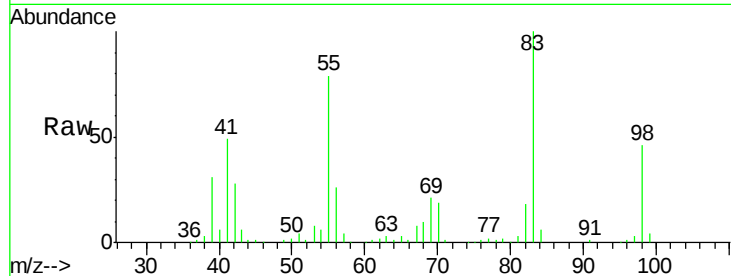
#39
Methvlcvclohexane
Concen: 47.419 ug/l
RT: 9.07 min Scan# 2270
Delta R.T. 0.00 min
Lab File: VN058230.D
Acq: 20 Sep 2019 1:09

Instrument :
MSVOA_N
ClientSampleId :
RE123D1-20190912MS

Tot Ion	83	Resp	265287
Ion Ratio	100	Lower	Upper
83	100		
55	78.5	61.9	92.9
98	45.5	35.4	53.2

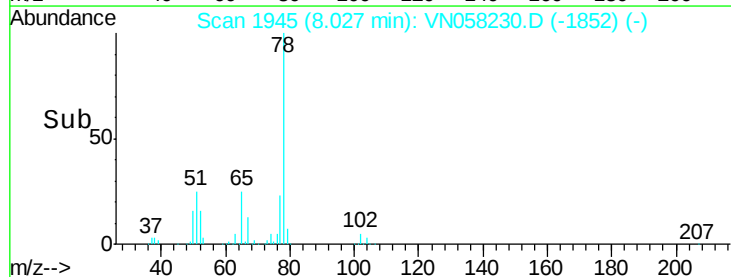
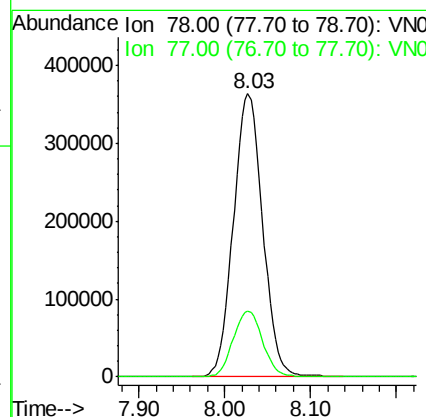
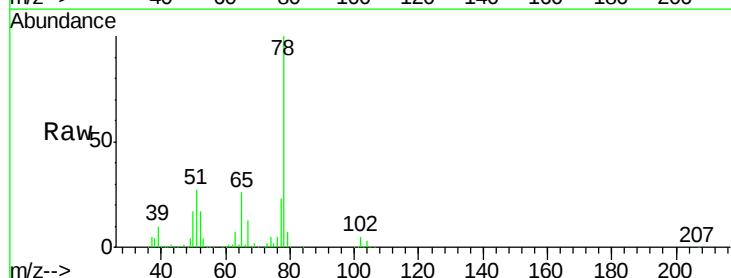
Manual Integrations
APPROVED

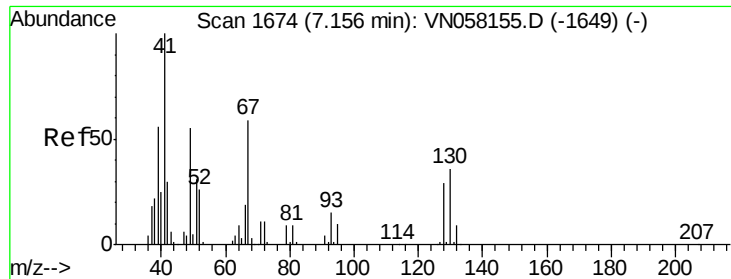
MMDadoda
9/20/2019 3:36:56 PM



#40
Benzene
Concen: 48.646 ug/l
RT: 8.03 min Scan# 1945
Delta R.T. -0.00 min
Lab File: VN058230.D
Acq: 20 Sep 2019 1:09

Tgt Ion	78	Resp	859801
Ion Ratio	100	Lower	Upper
78	100		
77	23.3	18.8	28.2





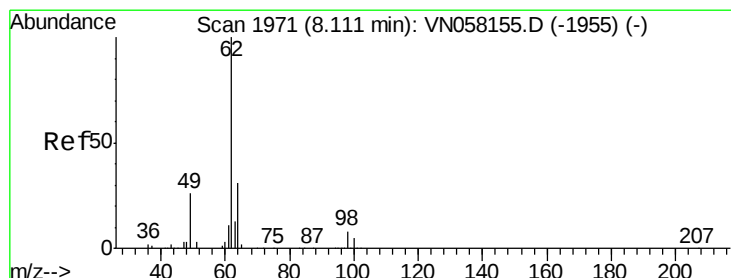
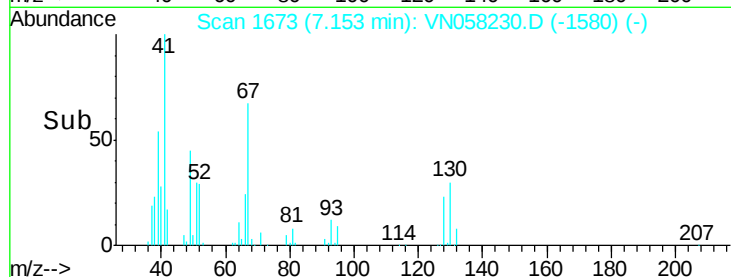
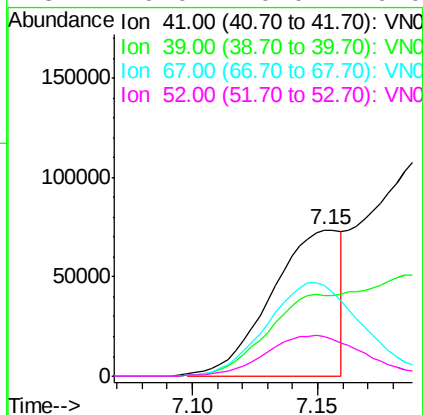
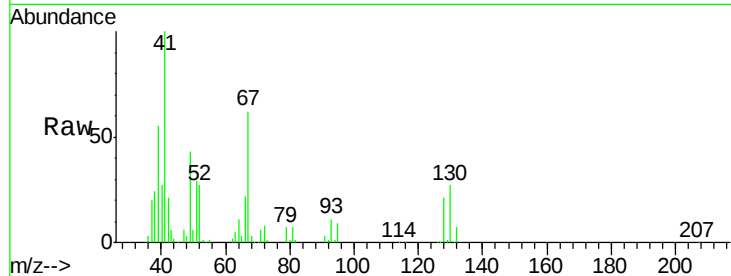
#41
Methacrylonitrile
Concen: 46.727 ug/l m
RT: 7.15 min Scan# 1673
Delta R.T. -0.00 min
Lab File: VN058230.D
Acq: 20 Sep 2019 1:09

Instrument :
MSVOA_N
ClientSampleId :
RE123D1-20190912MS

Tot Ion	41	Resp	141180
Ion Ratio	Lower	Upper	
41	100		
39	0.0	0.0	0.0
67	0.0	0.0	0.0
52	0.0	0.0	0.0

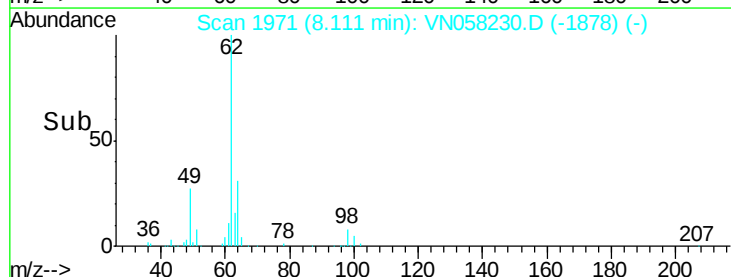
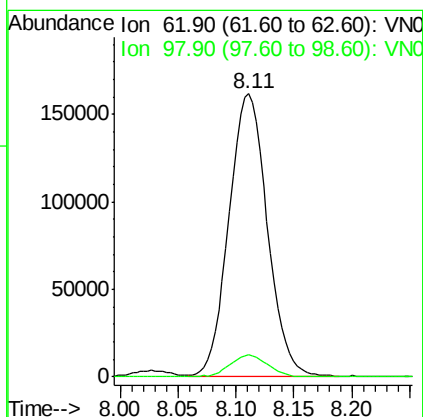
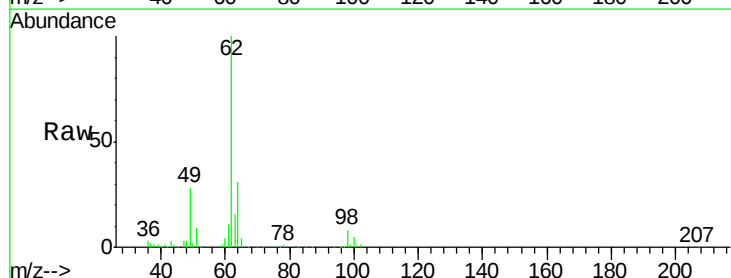
Manual Integrations
APPROVED

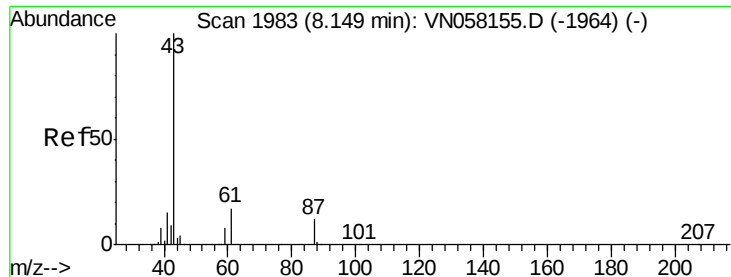
MMDadoda
9/20/2019 3:36:56 PM



#42
1,2-Dichloroethane
Concen: 49.893 ug/l
RT: 8.11 min Scan# 1971
Delta R.T. -0.00 min
Lab File: VN058230.D
Acq: 20 Sep 2019 1:09

Tgt Ion	62	Resp	370022
Ion Ratio	Lower	Upper	
62	100		
98	7.7	0.0	15.6





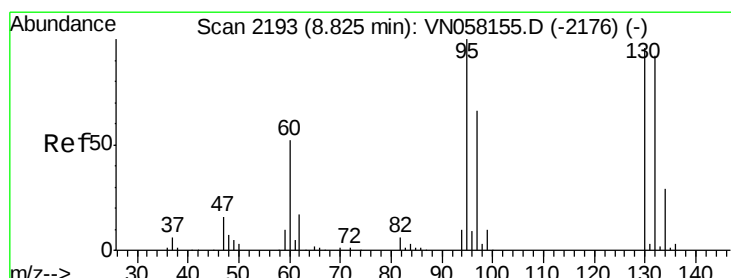
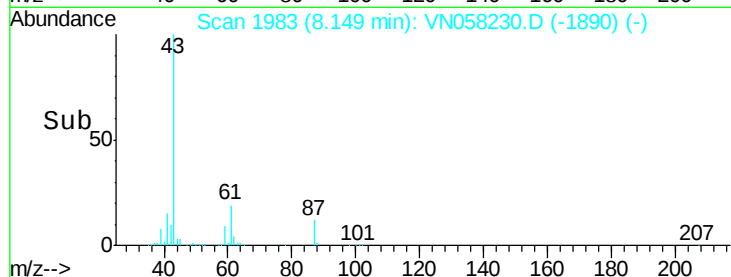
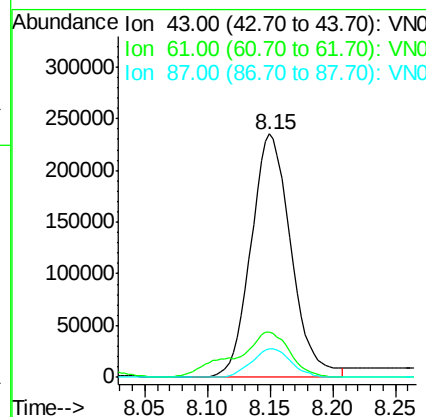
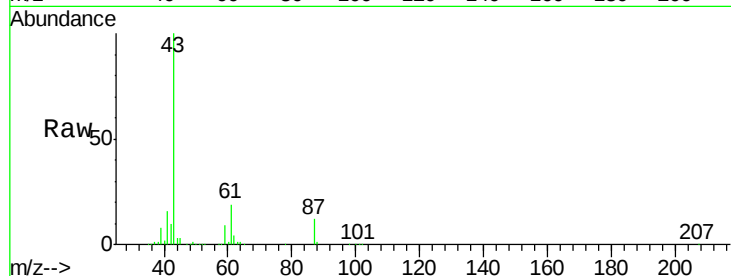
#43
Isopropyl Acetate
Concen: 46.385 ug/l
RT: 8.15 min Scan# 1983
Delta R.T. -0.00 min
Lab File: VN058230.D
Acq: 20 Sep 2019 1:09

Instrument :
MSVOA_N
ClientSampleId :
RE123D1-20190912MS

Tot Ion	Ratio	Lower	Upper
43	100		
61	25.0	19.7	29.5
87	11.8	9.4	14.2

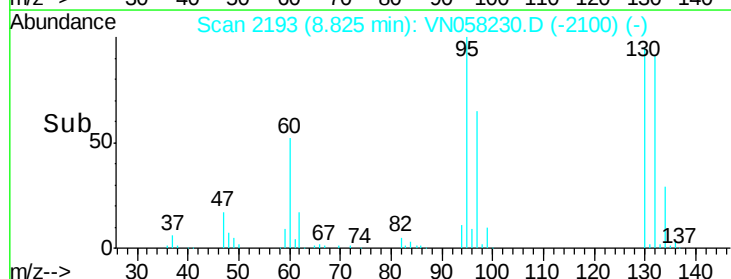
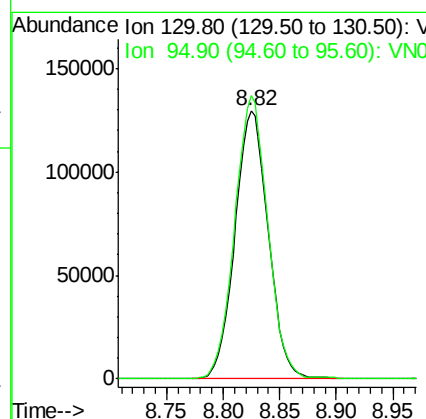
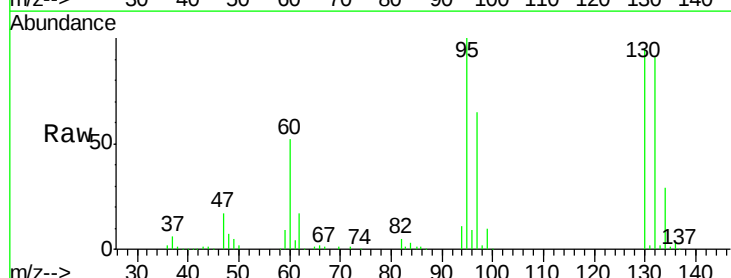
Manual Integrations
APPROVED

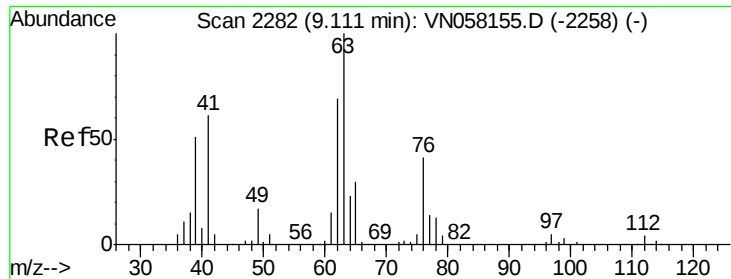
MMDadoda
9/20/2019 3:36:56 PM



#44
Trichloroethene
Concen: 61.319 ug/l
RT: 8.82 min Scan# 2193
Delta R.T. -0.00 min
Lab File: VN058230.D
Acq: 20 Sep 2019 1:09

Tgt Ion	Ratio	Lower	Upper
130	100		
95	105.4	0.0	207.8





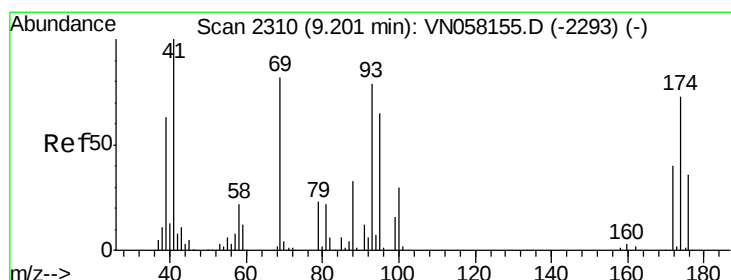
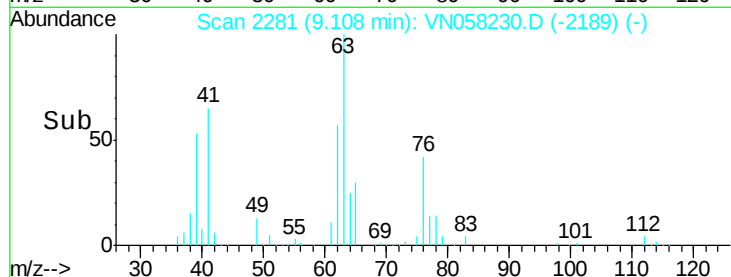
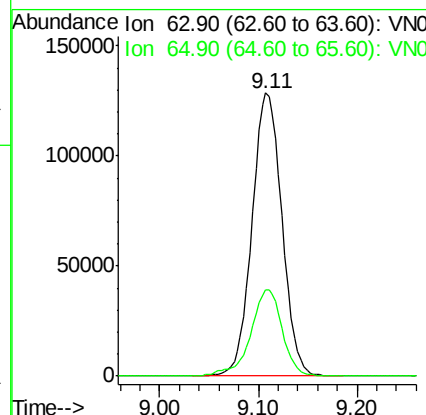
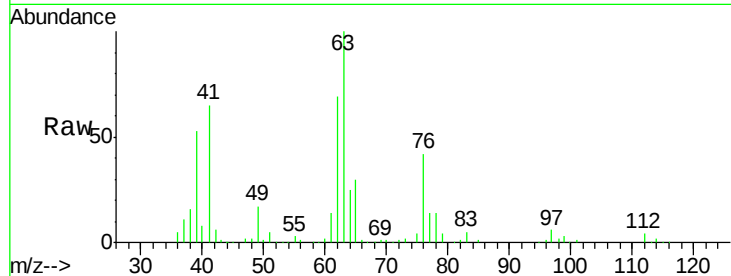
#45
 1,2-Dichloropropane
 Concen: 50.968 ug/l
 RT: 9.11 min Scan# 2281
 Delta R.T. -0.00 min
 Lab File: VN058230.D
 Acq: 20 Sep 2019 1:09

Instrument :
 MSVOA_N
 ClientSampleId :
 RE123D1-20190912MS

Tot Ion	Ratio	Lower	Upper
63	100		
65	30.5	23.8	35.6

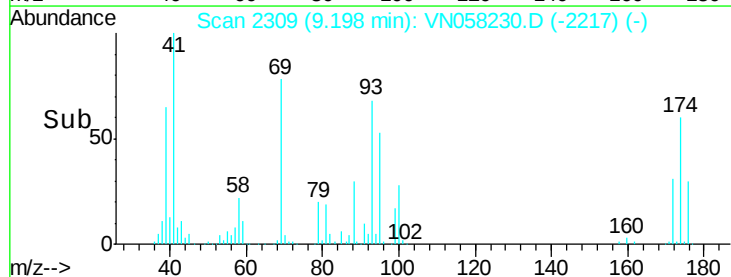
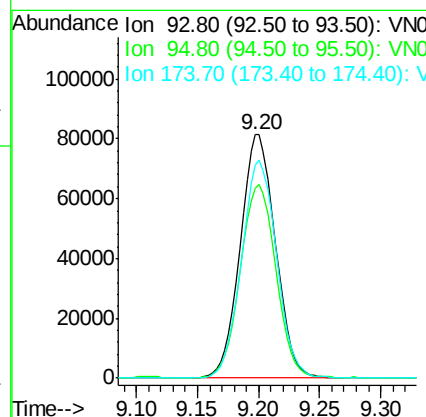
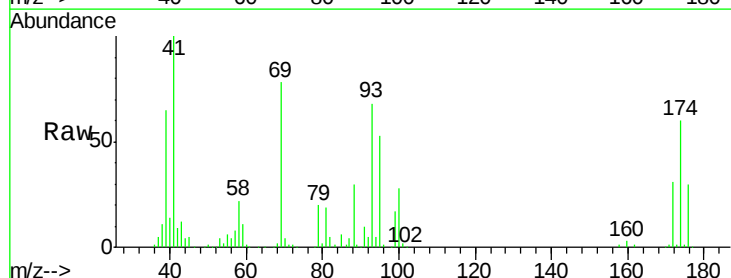
Manual Integrations
 APPROVED

MMDadoda
 9/20/2019 3:36:56 PM



#46
 Dibromomethane
 Concen: 50.607 ug/l
 RT: 9.20 min Scan# 2309
 Delta R.T. -0.00 min
 Lab File: VN058230.D
 Acq: 20 Sep 2019 1:09

Tgt Ion	Ratio	Lower	Upper
93	100		
95	80.6	66.8	100.2
174	89.3	73.8	110.8





#47

Bromodichloromethane

Concen: 52.079 ug/l

RT: 9.39 min Scan# 2370

Delta R.T. -0.00 min

Lab File: VN058230.D

Acq: 20 Sep 2019 1:09

Instrument :

MSVOA_N

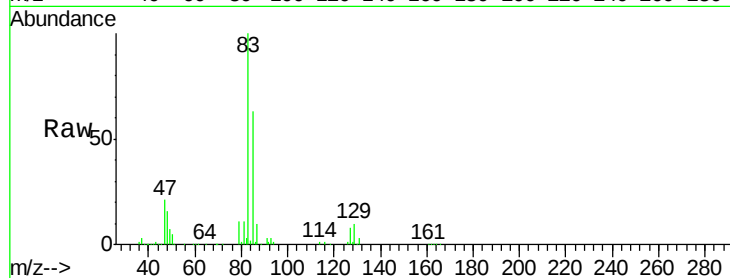
ClientSampleId :

RE123D1-20190912MS

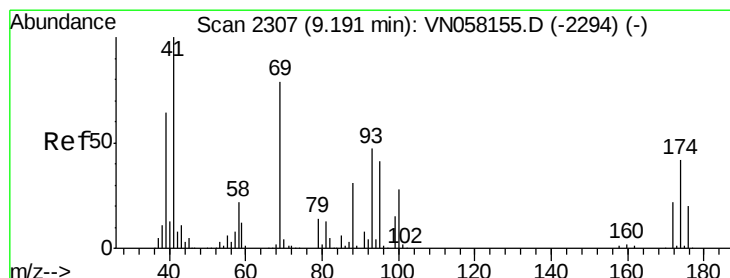
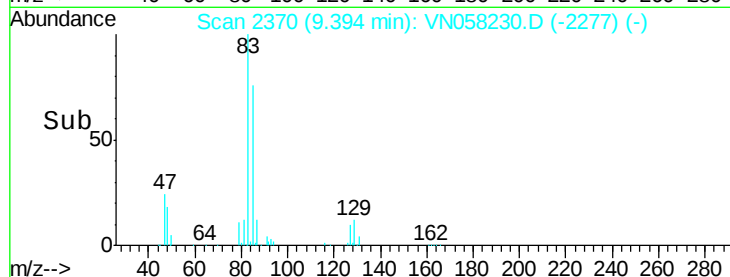
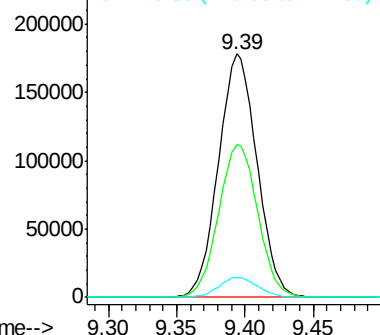
Tot Ion:	83	Resp:	350126
Ion Ratio	Lower	Upper	
83	100		
85	62.9	50.1	75.1
127	8.3	6.4	9.6

Manual Integrations
APPROVED

MMDadoda
9/20/2019 3:36:56 PM



Abundance Ion 82.90 (82.60 to 83.60): VNO
Ion 84.90 (84.60 to 85.60): VNO
Ion 126.80 (126.50 to 127.50): V



#48

Methyl methacrylate

Concen: 52.480 ug/l

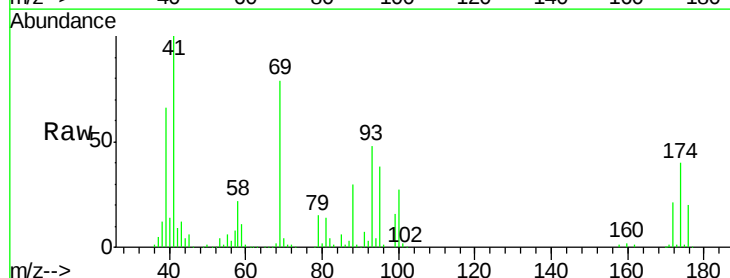
RT: 9.19 min Scan# 2307

Delta R.T. -0.00 min

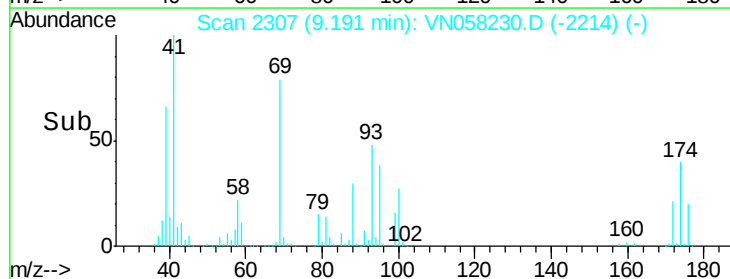
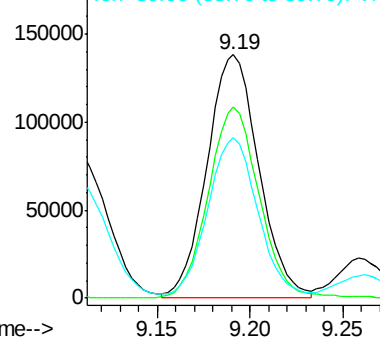
Lab File: VN058230.D

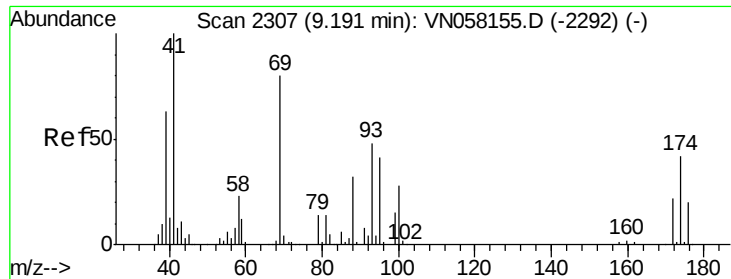
Acq: 20 Sep 2019 1:09

Tgt Ion:	41	Resp:	267246
Ion Ratio	Lower	Upper	
41	100		
69	77.8	62.5	93.7
39	64.3	52.3	78.5



Abundance Ion 41.00 (40.70 to 41.70): VNO
Ion 69.00 (68.70 to 69.70): VNO
Ion 39.00 (38.70 to 39.70): VNO





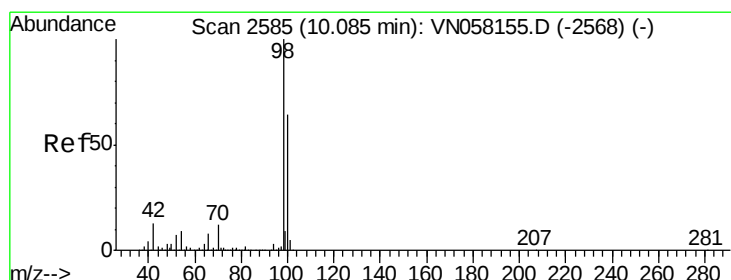
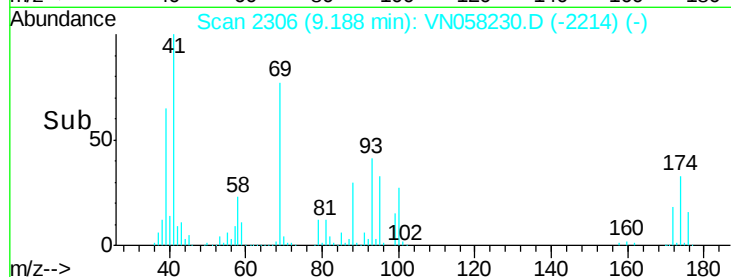
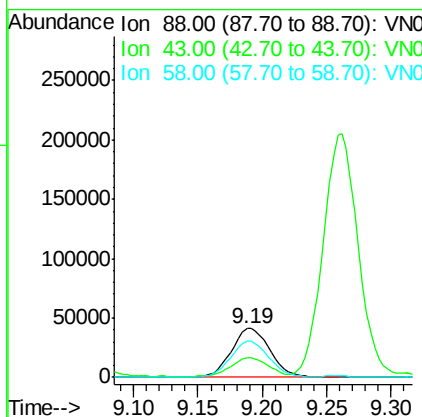
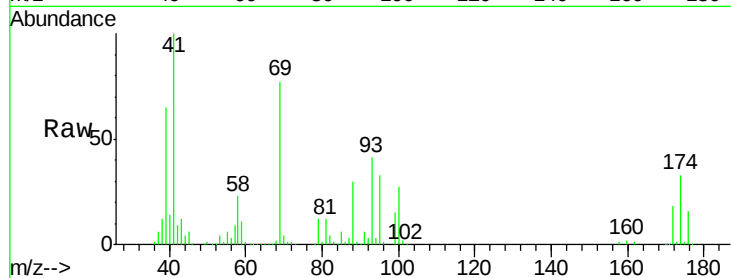
#49
1,4-Dioxane
Concen: 1029.504 ug/l
RT: 9.19 min Scan# 2306
Delta R.T. -0.00 min
Lab File: VN058230.D
Acq: 20 Sep 2019 1:09

Instrument :
MSVOA_N
ClientSampleId :
RE123D1-20190912MS

Tot Ion	88	Resp	86073
Ion	Ratio	Lower	Upper
88	100		
43	35.9	27.8	41.8
58	73.8	55.0	82.4

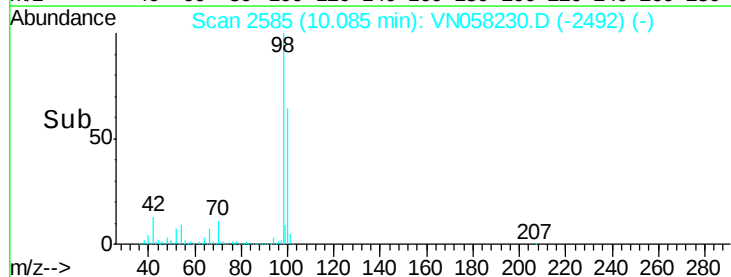
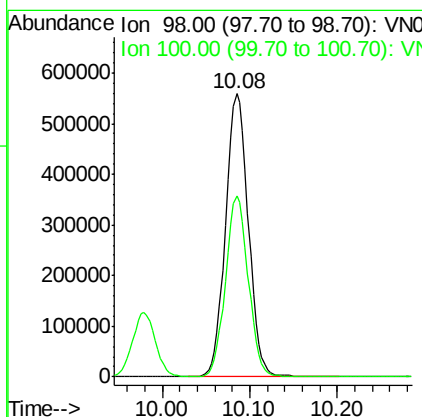
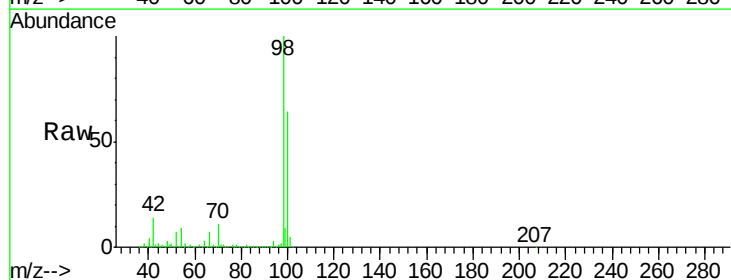
Manual Integrations
APPROVED

MMDadoda
9/20/2019 3:36:56 PM



#50
Toluene-d8
Concen: 53.381 ug/l
RT: 10.08 min Scan# 2585
Delta R.T. -0.00 min
Lab File: VN058230.D
Acq: 20 Sep 2019 1:09

Tgt Ion	98	Resp	1014563
Ion	Ratio	Lower	Upper
98	100		
100	63.4	51.1	76.7





#51

4-Methyl-2-Pentanone

Concen: 289.209 ug/l

RT: 9.98 min Scan# 2552

Delta R.T. -0.00 min

Lab File: VN058230.D

Acq: 20 Sep 2019 1:09

Instrument :

MSVOA_N

ClientSampleId :

RE123D1-20190912MS

Tot Ion: 43 Resp: 1722873

Ion Ratio Lower Upper

43 100

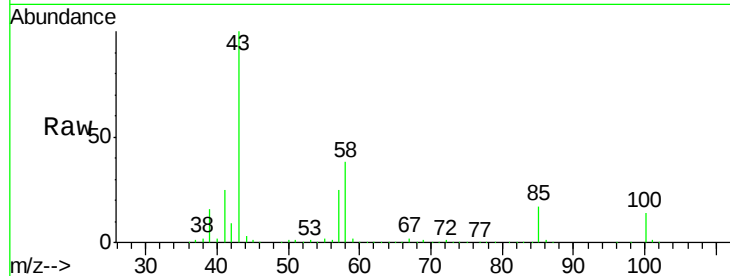
58 37.1 30.2 45.4

Manual Integrations

APPROVED

MMDadoda

9/20/2019 3:36:56 PM



Abundance Ion 43.00 (42.70 to 43.70): VN0

Ion 58.00 (57.70 to 58.70): VN0

1000000

800000

600000

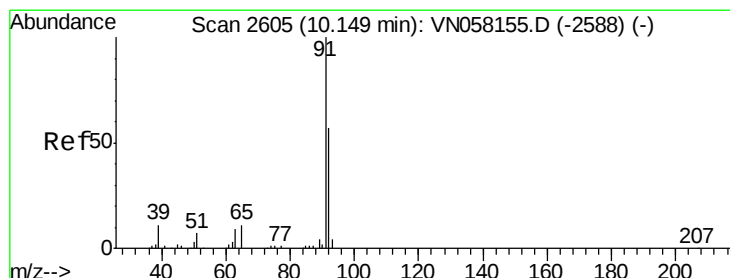
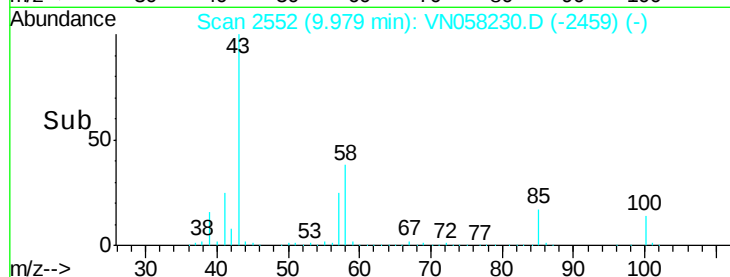
400000

200000

0

9.90 9.98 10.00 10.10

Time-->



#52

Toluene

Concen: 50.102 ug/l

RT: 10.15 min Scan# 2605

Delta R.T. -0.00 min

Lab File: VN058230.D

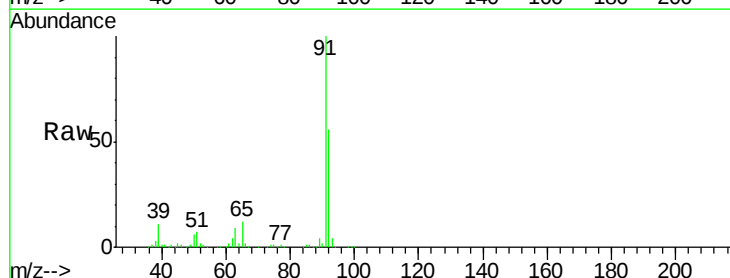
Acq: 20 Sep 2019 1:09

Tgt Ion: 92 Resp: 554971

Ion Ratio Lower Upper

92 100

91 176.3 140.2 210.2



Abundance Ion 92.00 (91.70 to 92.70): VN0

Ion 91.00 (90.70 to 91.70): VN0

600000

500000

400000

300000

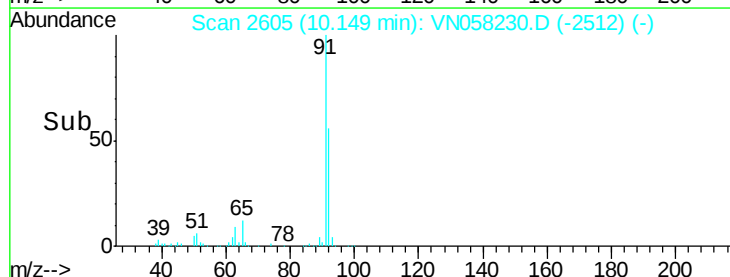
200000

100000

0

10.10 10.15 10.20 10.30

Time-->





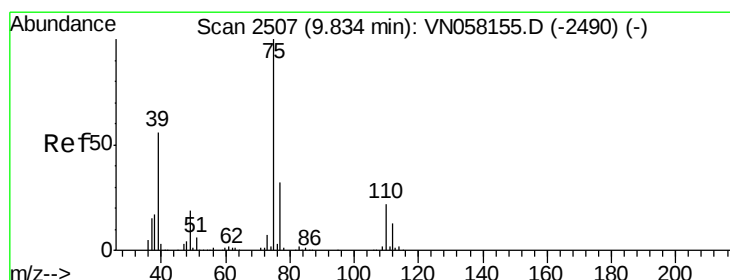
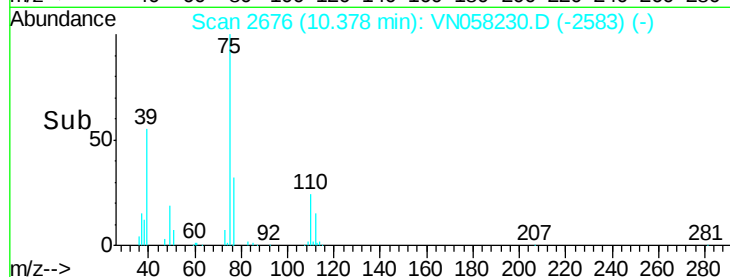
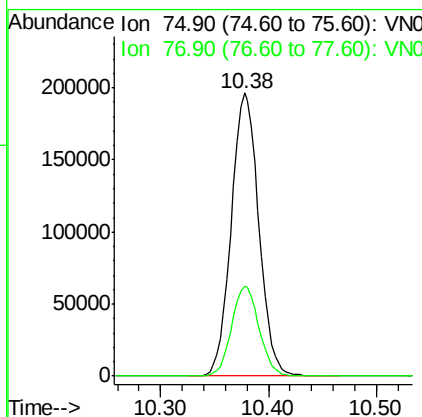
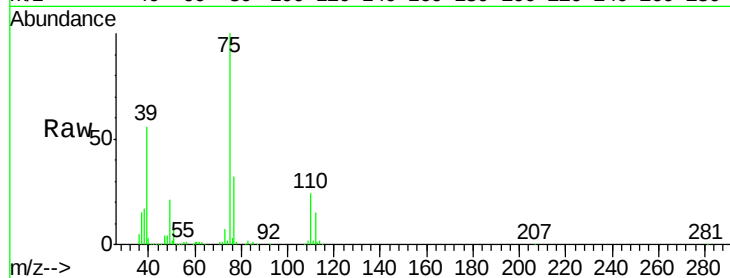
#53
t-1,3-Dichloropropene
Concen: 50.470 ug/l
RT: 10.38 min Scan# 2676
Delta R.T. -0.00 min
Lab File: VN058230.D
Acq: 20 Sep 2019 1:09

Instrument :
MSVOA_N
ClientSampleId :
RE123D1-20190912MS

Tot Ion: 75 Resp: 347569
Ion Ratio Lower Upper
75 100
77 32.0 24.9 37.3

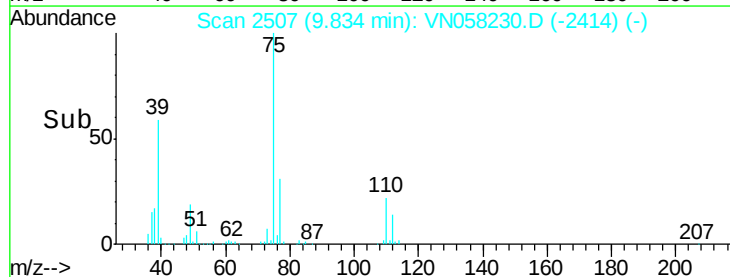
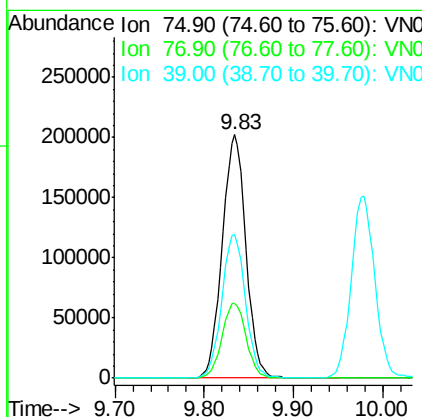
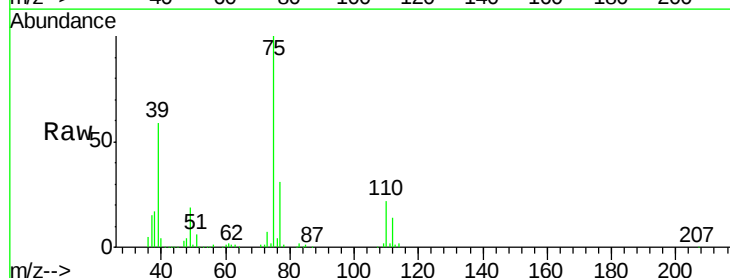
Manual Integrations
APPROVED

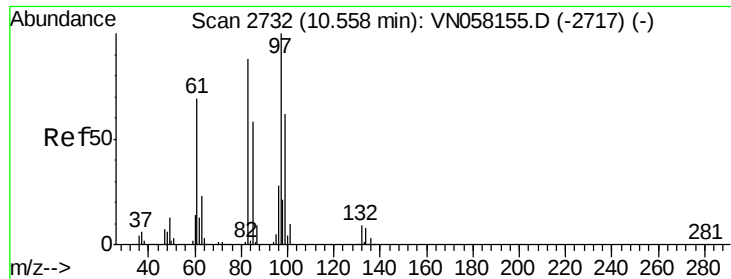
MMDadoda
9/20/2019 3:36:56 PM



#54
cis-1,3-Dichloropropene
Concen: 48.889 ug/l
RT: 9.83 min Scan# 2507
Delta R.T. -0.00 min
Lab File: VN058230.D
Acq: 20 Sep 2019 1:09

Tgt Ion: 75 Resp: 371717
Ion Ratio Lower Upper
75 100
77 30.9 25.4 38.0
39 59.0 45.0 67.6





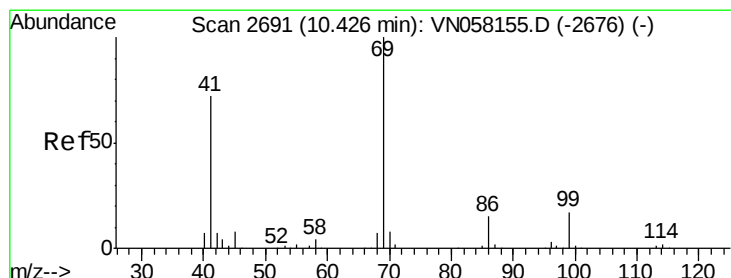
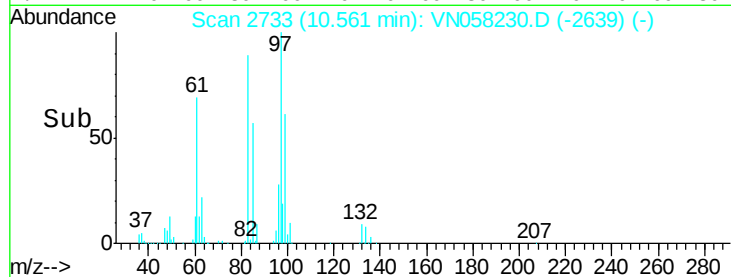
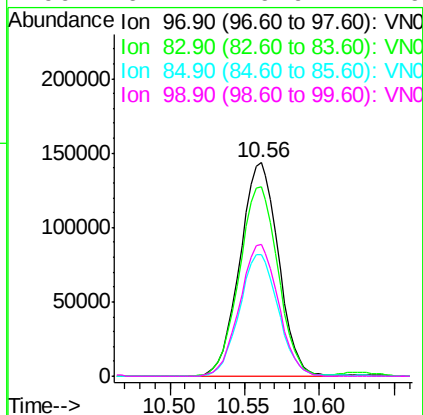
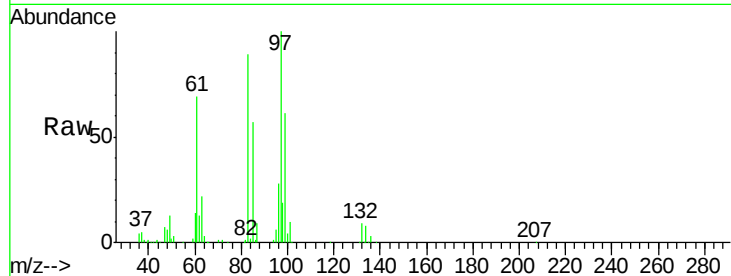
#55
 1,1,2-Trichloroethane
 Concen: 52.400 ug/l
 RT: 10.56 min Scan# 2733
 Delta R.T. 0.00 min
 Lab File: VN058230.D
 Acq: 20 Sep 2019 1:09

Instrument :
 MSVOA_N
 ClientSampleId :
 RE123D1-20190912MS

Tot Ion:	97	Resp:	257579
Ion	Ratio	Lower	Upper
97	100		
83	88.4	70.4	105.6
85	57.2	46.8	70.2
99	61.4	49.9	74.9

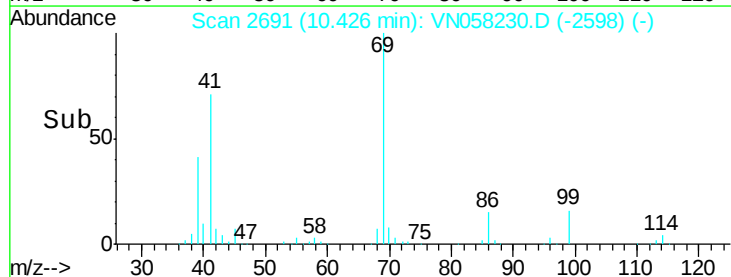
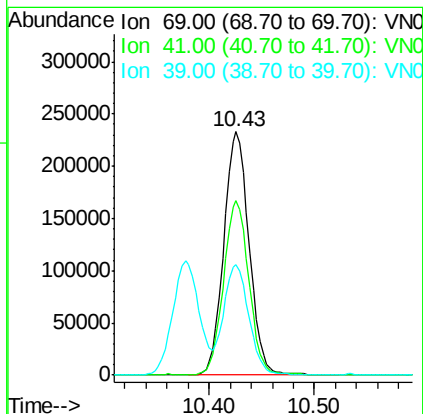
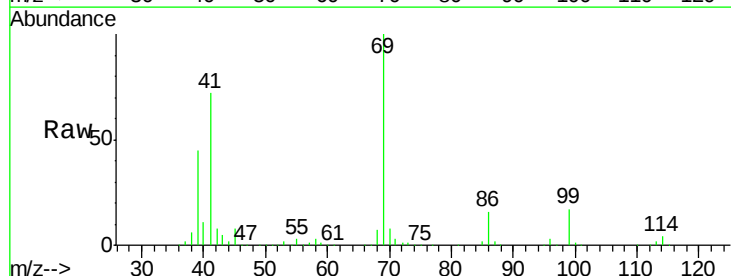
Manual Integrations
 APPROVED

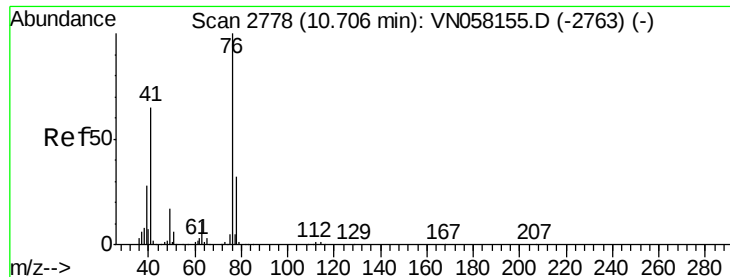
MMDadoda
 9/20/2019 3:36:56 PM



#56
 Ethyl methacrylate
 Concen: 54.453 ug/l
 RT: 10.43 min Scan# 2691
 Delta R.T. -0.00 min
 Lab File: VN058230.D
 Acq: 20 Sep 2019 1:09

Tgt Ion:	69	Resp:	386201
Ion	Ratio	Lower	Upper
69	100		
41	70.7	57.5	86.3
39	44.8	36.1	54.1





#57

1,3-Dichloropropane

Concen: 51.686 ug/l

RT: 10.71 min Scan# 2778

Delta R.T. -0.00 min

Lab File: VN058230.D

Acq: 20 Sep 2019 1:09

Instrument :

MSVOA_N

ClientSampleId :

RE123D1-20190912MS

Tot Ion: 76 Resp: 436773

Ion Ratio Lower Upper

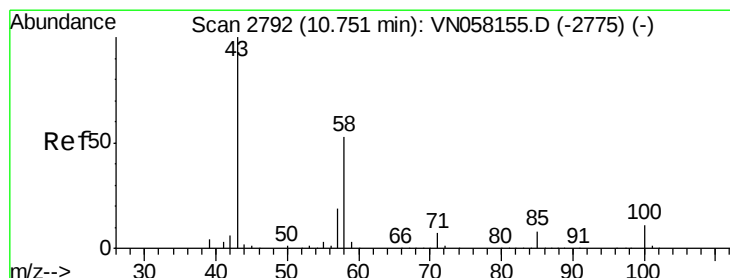
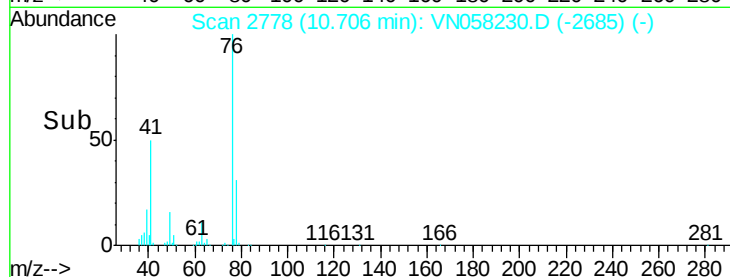
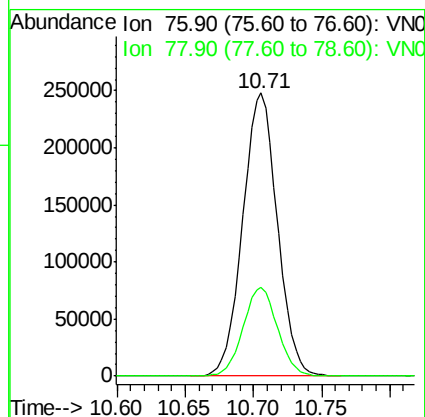
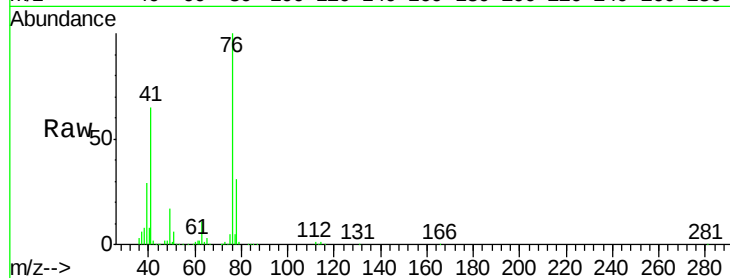
76 100

78 31.3 25.4 38.0

Manual Integrations
APPROVED

MMDadoda

9/20/2019 3:36:56 PM



#59

2-Hexanone

Concen: 280.872 ug/l

RT: 10.75 min Scan# 2792

Delta R.T. -0.00 min

Lab File: VN058230.D

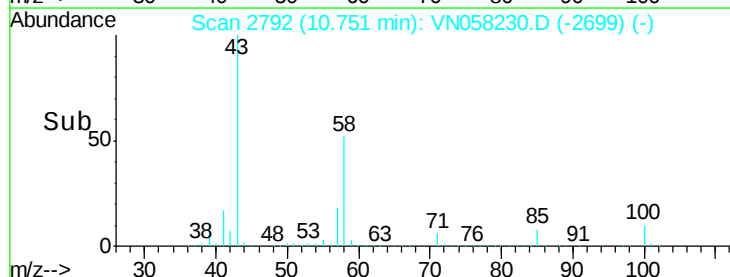
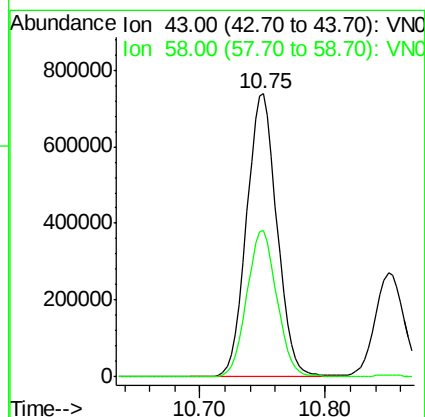
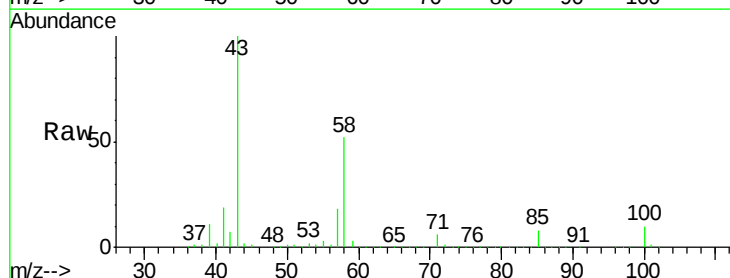
Acq: 20 Sep 2019 1:09

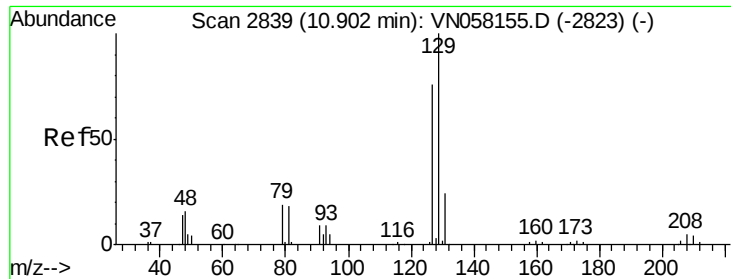
Tgt Ion: 43 Resp: 1242673

Ion Ratio Lower Upper

43 100

58 51.4 26.0 78.0





#60

Dibromochloromethane

Concen: 54.380 ug/l

RT: 10.90 min Scan# 2839

Delta R.T. -0.00 min

Lab File: VN058230.D

Acq: 20 Sep 2019 1:09

Instrument :

MSVOA_N

ClientSampleId :

RE123D1-20190912MS

Tot Ion:129 Resp: 257165

Ion Ratio Lower Upper

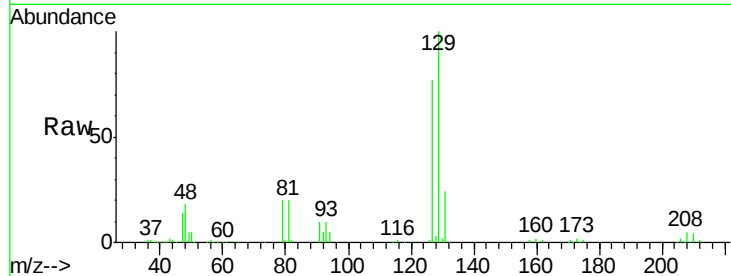
129 100

127 78.0 38.7 116.1

Manual Integrations
APPROVED

MMDadoda

9/20/2019 3:36:56 PM



Abundance Ion 128.80 (128.50 to 129.50): V

Ion 126.80 (126.50 to 127.50): V

10.90

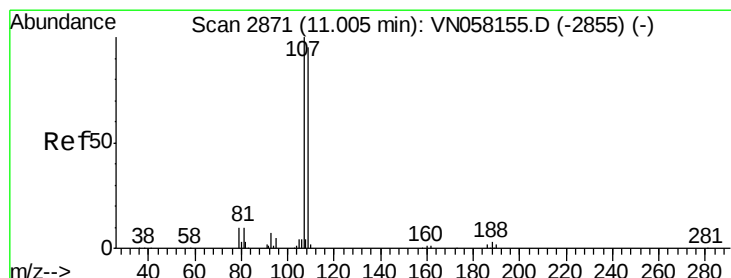
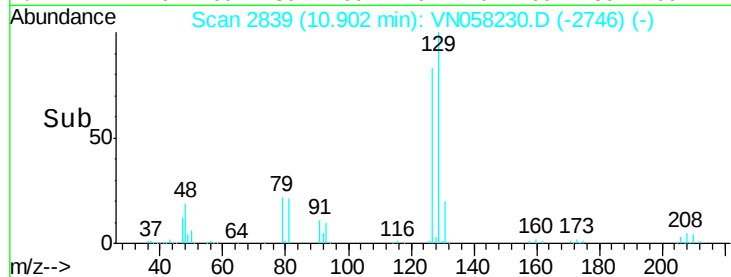
150000

100000

50000

0

Time--> 10.80 10.90 11.00



#61

1,2-Dibromoethane

Concen: 52.195 ug/l

RT: 11.00 min Scan# 2871

Delta R.T. -0.00 min

Lab File: VN058230.D

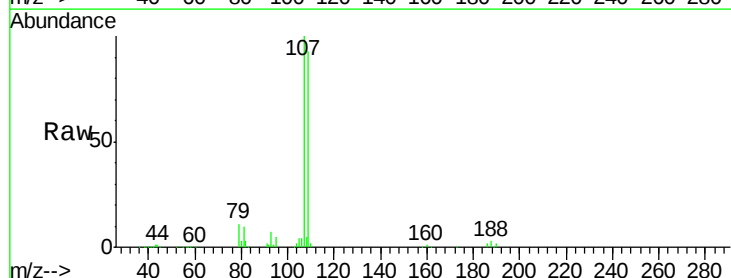
Acq: 20 Sep 2019 1:09

Tgt Ion:107 Resp: 237773

Ion Ratio Lower Upper

107 100

109 94.6 75.4 113.2



Abundance Ion 106.90 (106.60 to 107.60): V

Ion 108.80 (108.50 to 109.50): V

11.00

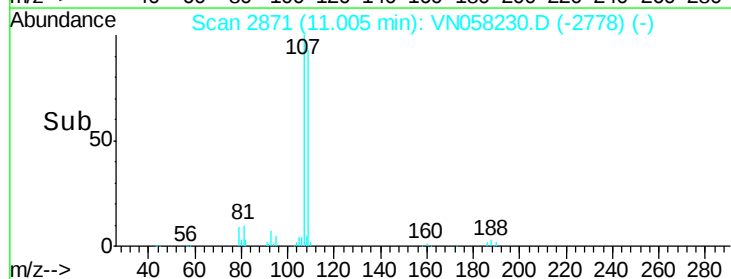
150000

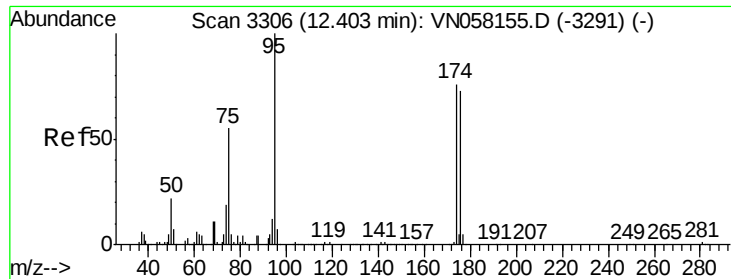
100000

50000

0

Time--> 10.90 11.00 11.10





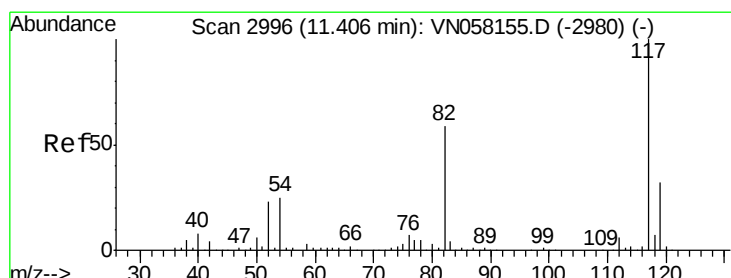
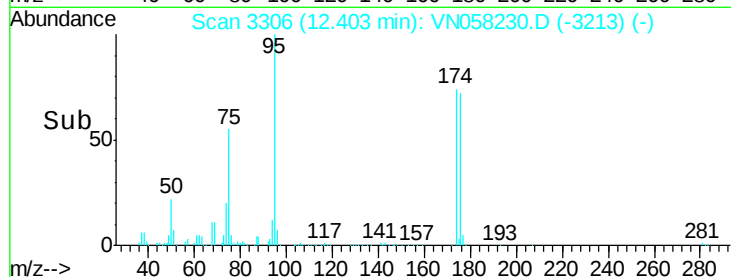
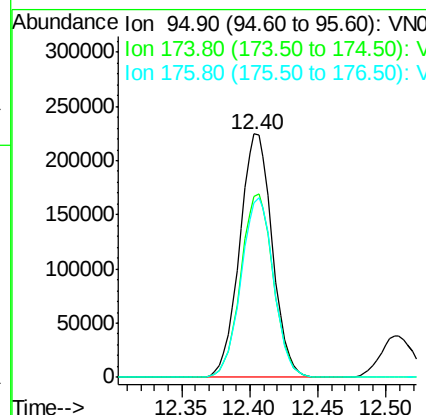
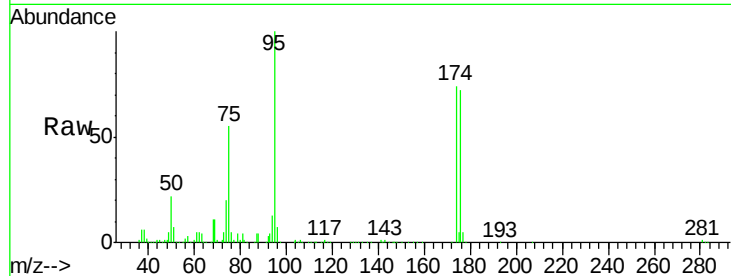
#62
4-Bromofluorobenzene
Concen: 52.768 ug/l
RT: 12.40 min Scan# 3306
Delta R.T. -0.00 min
Lab File: VN058230.D
Acq: 20 Sep 2019 1:09

Instrument :
MSVOA_N
ClientSampleId :
RE123D1-20190912MS

Tot Ion	Ratio	Lower	Upper
95	100		
174	75.2	0.0	152.2
176	73.5	0.0	148.0

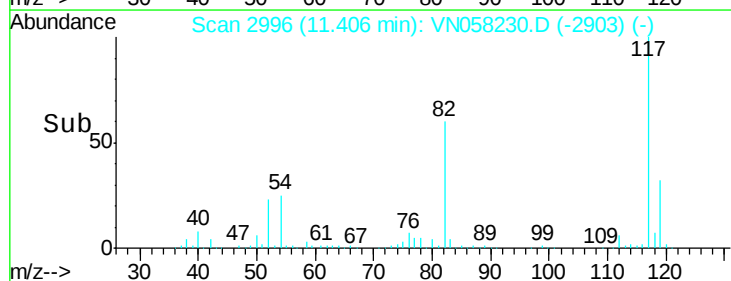
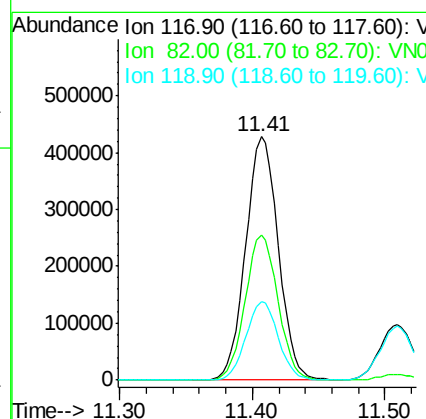
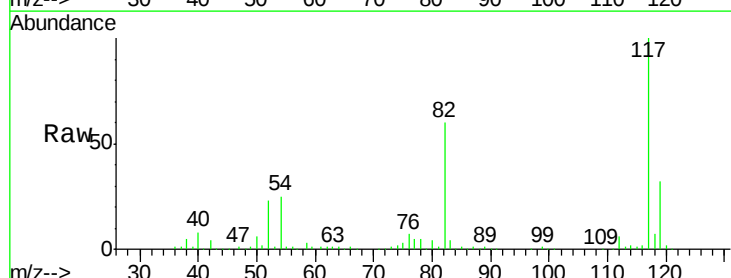
Manual Integrations
APPROVED

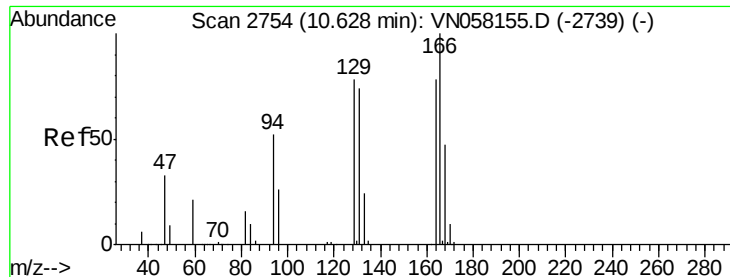
MMDadoda
9/20/2019 3:36:56 PM



#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.41 min Scan# 2996
Delta R.T. -0.00 min
Lab File: VN058230.D
Acq: 20 Sep 2019 1:09

Tgt Ion	Ratio	Lower	Upper
117	100		
82	59.7	46.9	70.3
119	32.1	25.3	37.9





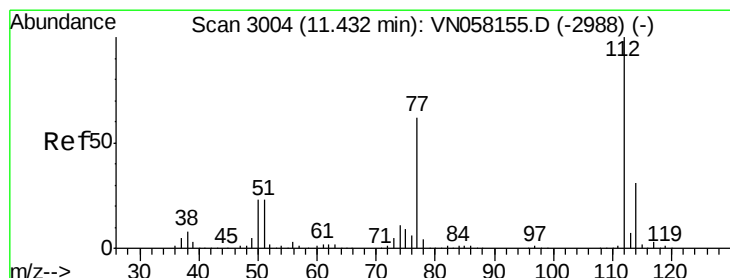
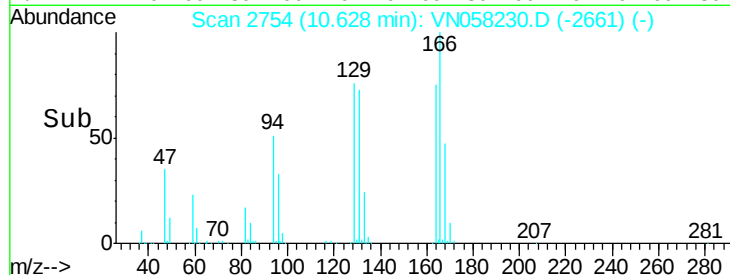
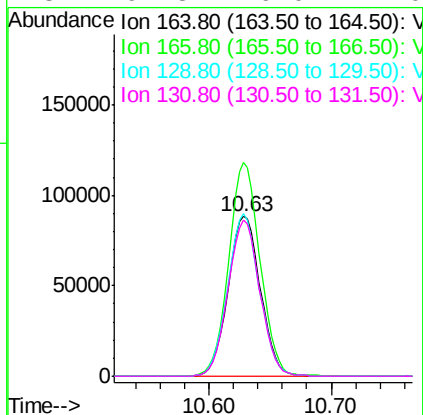
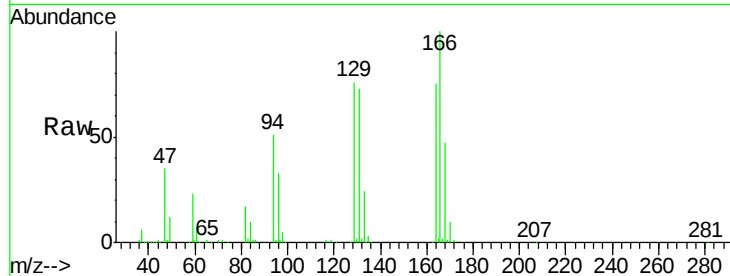
#64
Tetrachloroethene
Concen: 45.590 ug/l
RT: 10.63 min Scan# 2754
Delta R.T. -0.00 min
Lab File: VN058230.D
Acq: 20 Sep 2019 1:09

Instrument :
MSVOA_N
ClientSampleId :
RE123D1-20190912MS

Tot Ion	Ratio	Lower	Upper
164	100		
166	133.6	102.2	153.4
129	101.7	79.6	119.4
131	97.8	76.0	114.0

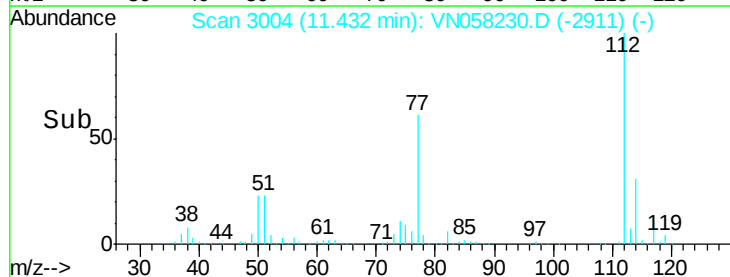
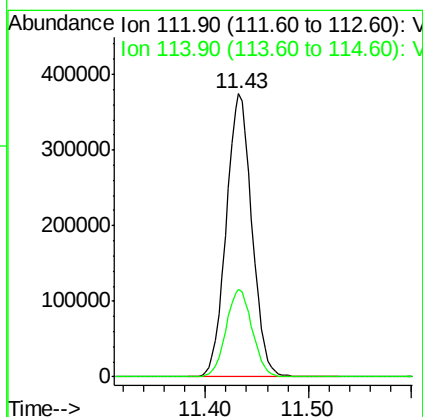
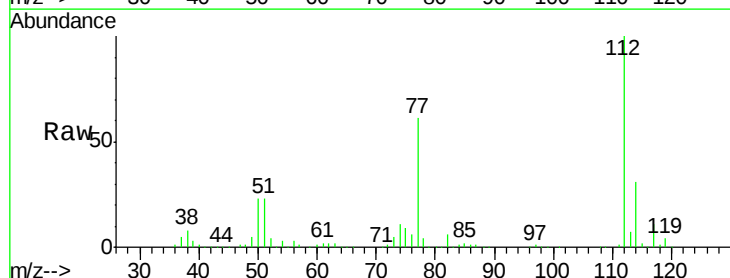
Manual Integrations
APPROVED

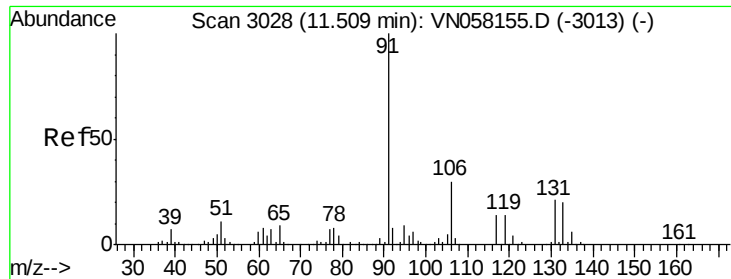
MMDadoda
9/20/2019 3:36:56 PM



#65
Chlorobenzene
Concen: 50.197 ug/l
RT: 11.43 min Scan# 3004
Delta R.T. -0.00 min
Lab File: VN058230.D
Acq: 20 Sep 2019 1:09

Tgt Ion	Ratio	Lower	Upper
112	100		
114	31.0	25.1	37.7





#66

1,1,1,2-Tetrachloroethane

Concen: 53.817 ug/l

RT: 11.51 min Scan# 3028

Delta R.T. -0.00 min

Lab File: VN058230.D

Acq: 20 Sep 2019 1:09

Instrument :

MSVOA_N

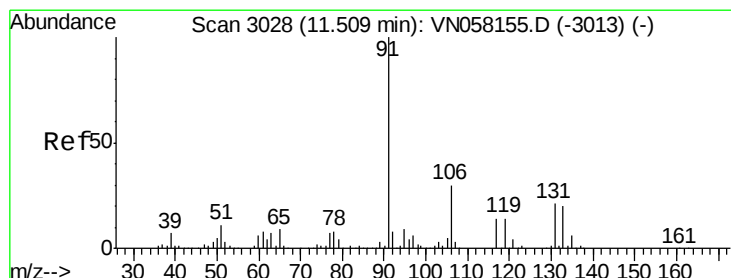
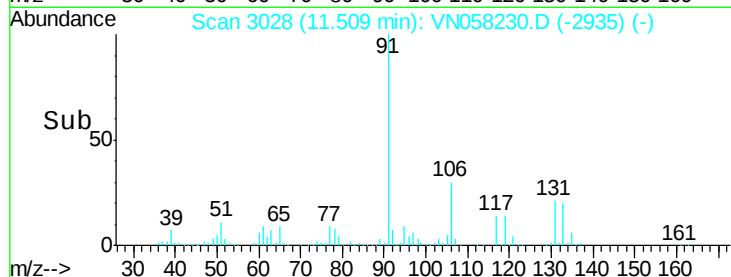
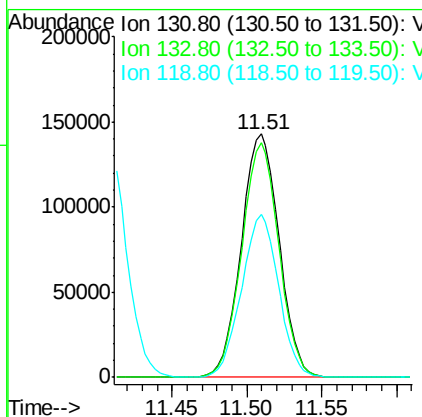
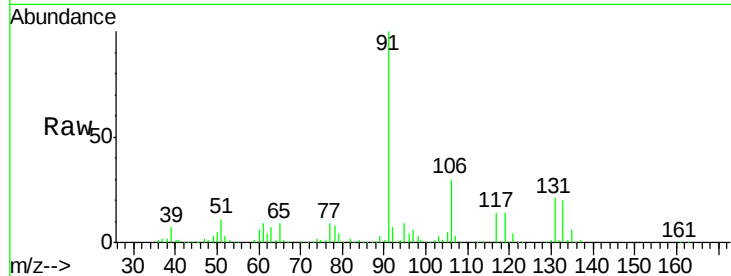
ClientSampleId :

RE123D1-20190912MS

Tot Ion	Ratio	Lower	Upper
131	100		
133	94.5	47.8	143.3
119	65.8	33.1	99.3

Manual Integrations
APPROVED

MMDadoda
9/20/2019 3:36:56 PM



#67

Ethyl Benzene

Concen: 52.343 ug/l

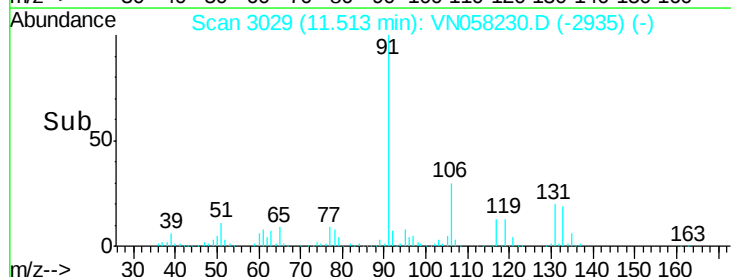
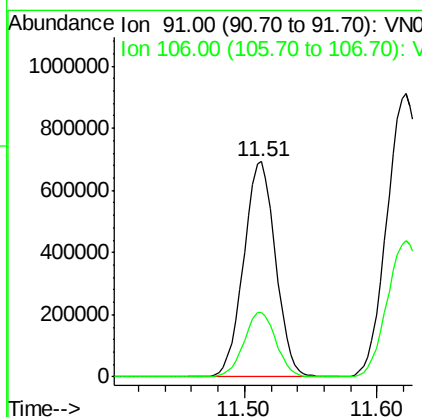
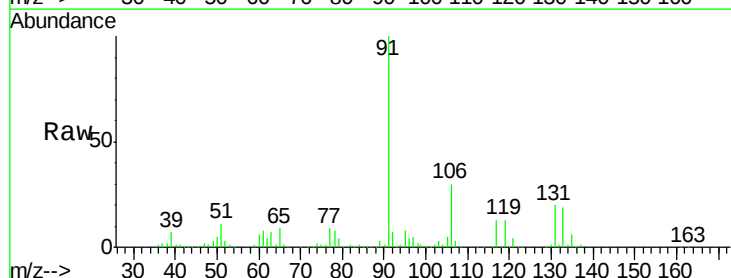
RT: 11.51 min Scan# 3029

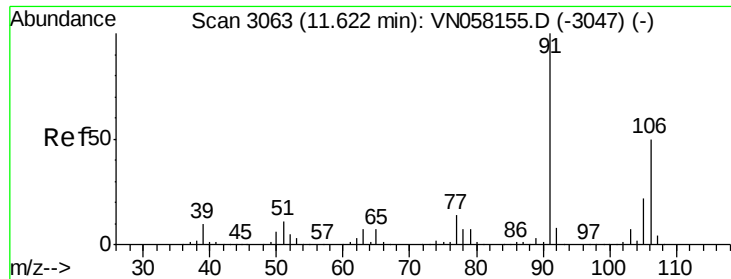
Delta R.T. 0.00 min

Lab File: VN058230.D

Acq: 20 Sep 2019 1:09

Tgt Ion	Ratio	Lower	Upper
91	100		
106	30.1	24.0	36.0





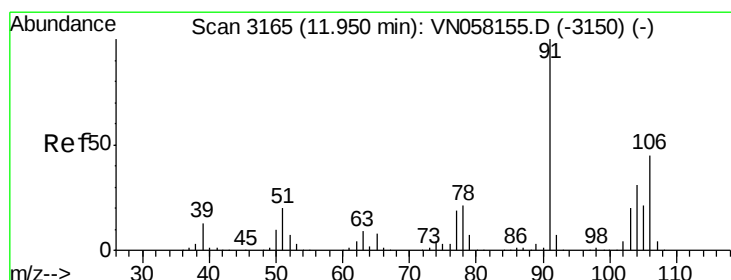
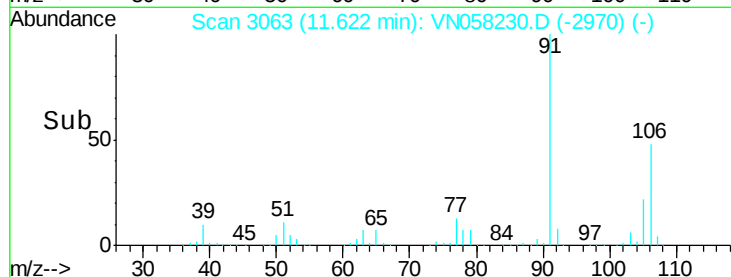
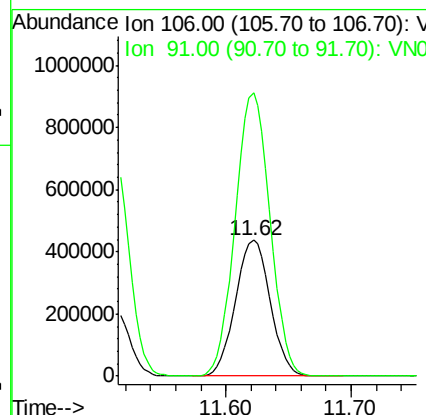
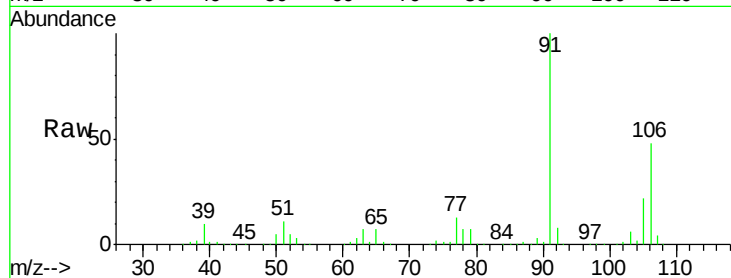
#68
m/p-Xylenes
Concen: 101.176 ug/l
RT: 11.62 min Scan# 3063
Delta R.T. -0.00 min
Lab File: VN058230.D
Acq: 20 Sep 2019 1:09

Instrument :
MSVOA_N
ClientSampleId :
RE123D1-20190912MS

Tot Ion:106 Resp: 842744
Ion Ratio Lower Upper
106 100
91 208.5 163.6 245.4

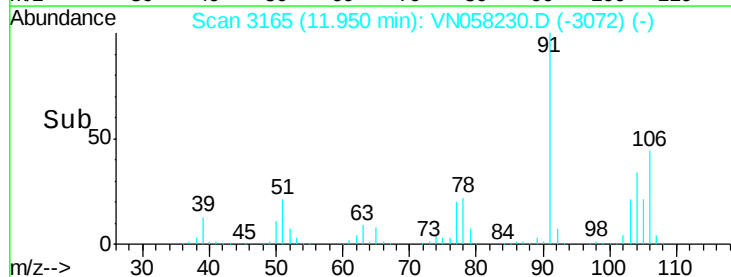
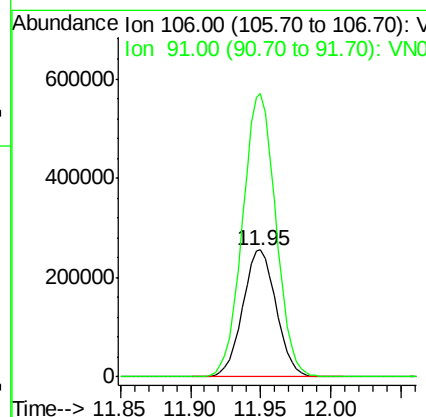
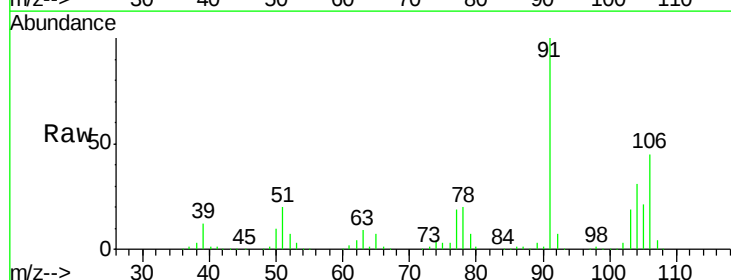
Manual Integrations
APPROVED

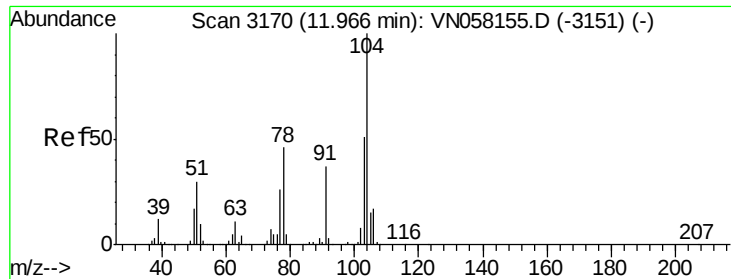
MMDadoda
9/20/2019 3:36:56 PM



#69
o-Xylene
Concen: 52.031 ug/l
RT: 11.95 min Scan# 3165
Delta R.T. -0.00 min
Lab File: VN058230.D
Acq: 20 Sep 2019 1:09

Tgt Ion:106 Resp: 426147
Ion Ratio Lower Upper
106 100
91 221.5 111.8 335.3





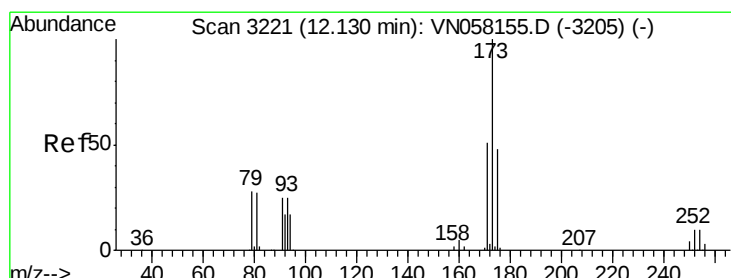
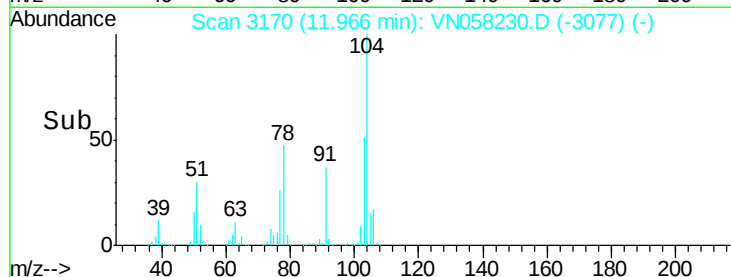
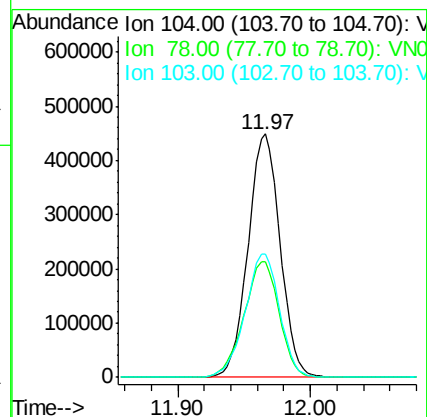
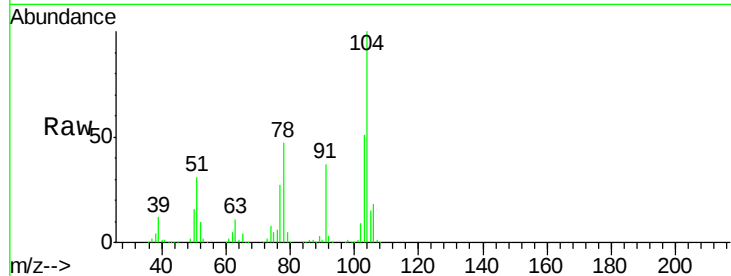
#70
Stvrene
Concen: 53.521 ug/l
RT: 11.97 min Scan# 3170
Delta R.T. -0.00 min
Lab File: VN058230.D
Acq: 20 Sep 2019 1:09

Instrument :
MSVOA_N
ClientSampleId :
RE123D1-20190912MS

Tot Ion	Ratio	Lower	Upper
104	100		
78	52.5	41.8	62.8
103	54.4	44.2	66.2

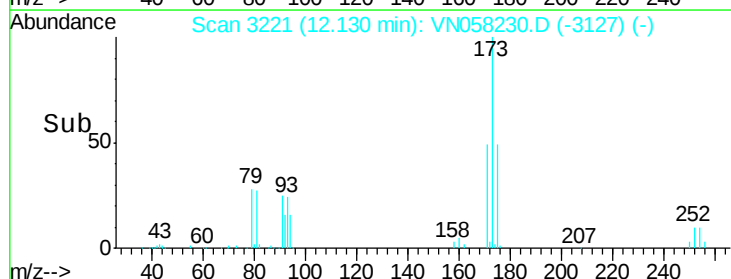
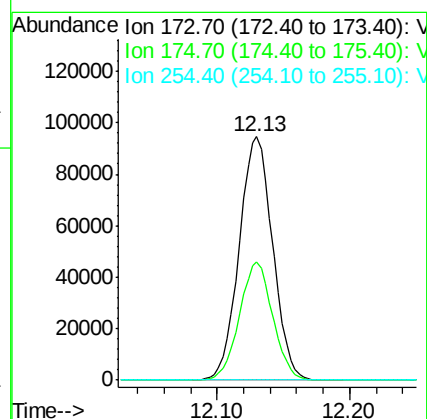
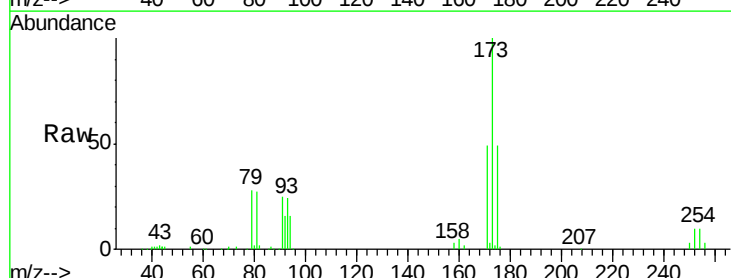
Manual Integrations
APPROVED

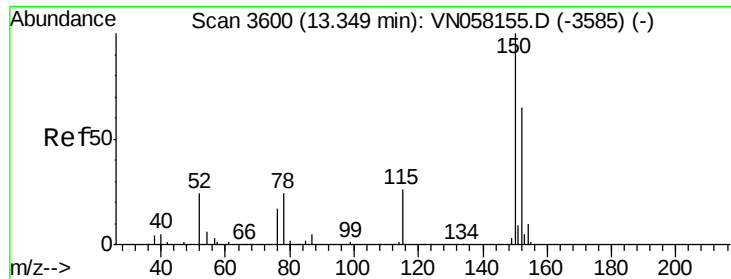
MMDadoda
9/20/2019 3:36:56 PM



#71
Bromoform
Concen: 47.924 ug/l
RT: 12.13 min Scan# 3221
Delta R.T. 0.00 min
Lab File: VN058230.D
Acq: 20 Sep 2019 1:09

Tgt Ion	Ratio	Lower	Upper
173	100		
175	48.2	24.2	72.6
254	0.0	0.1	0.1#





#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

RT: 13.35 min Scan# 3600

Delta R.T. -0.00 min

Lab File: VN058230.D

Acq: 20 Sep 2019 1:09

Instrument :

MSVOA_N

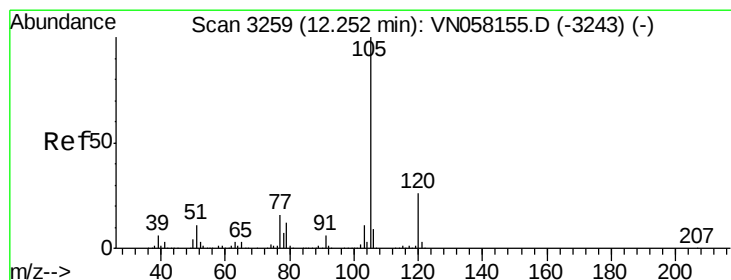
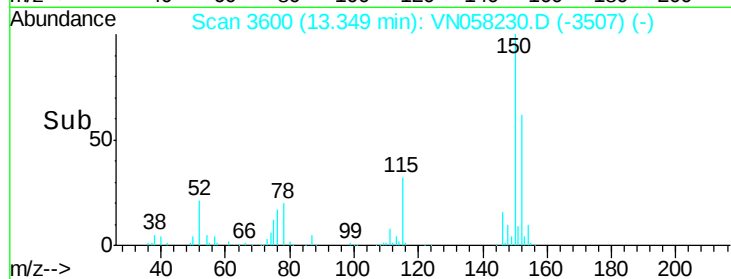
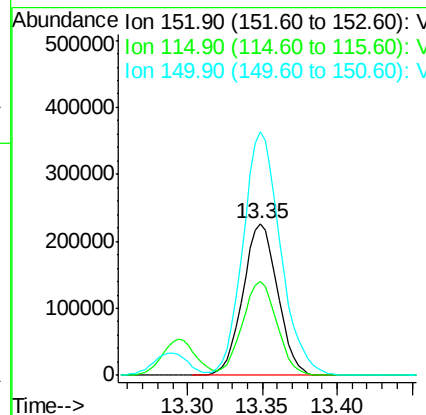
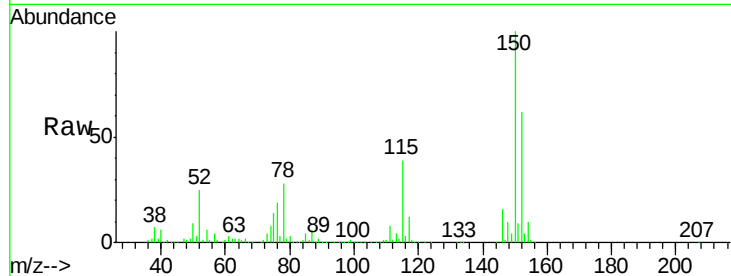
ClientSampleId :

RE123D1-20190912MS

Tot Ion:	152	Resp:	365462
Ion Ratio	Lower	Upper	
152	100		
115	61.4	30.1	90.3
150	173.3	0.0	346.4

Manual Integrations
APPROVED

MMDadoda
9/20/2019 3:36:56 PM



#73

Isopropylbenzene

Concen: 52.683 ug/l

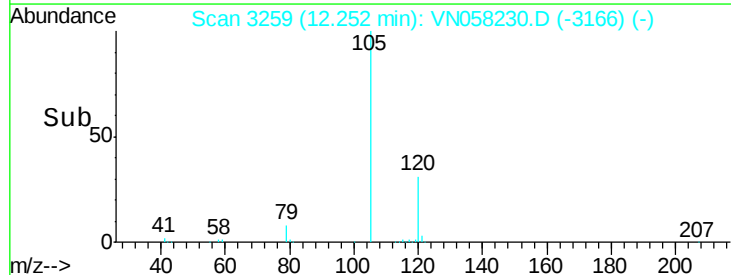
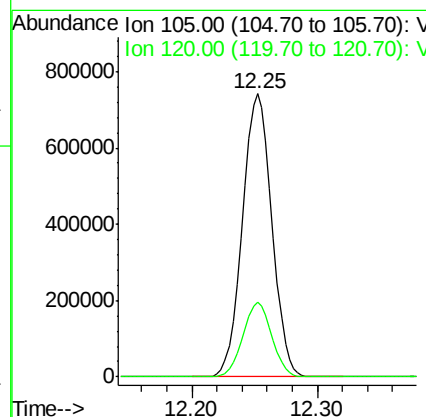
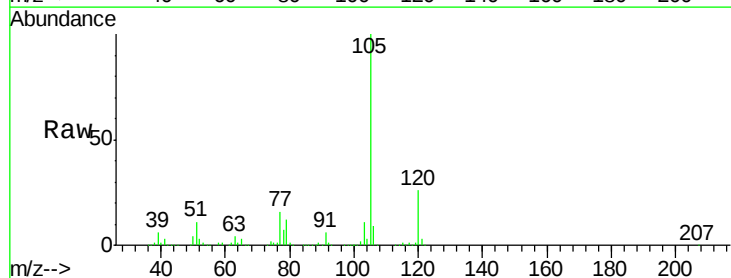
RT: 12.25 min Scan# 3259

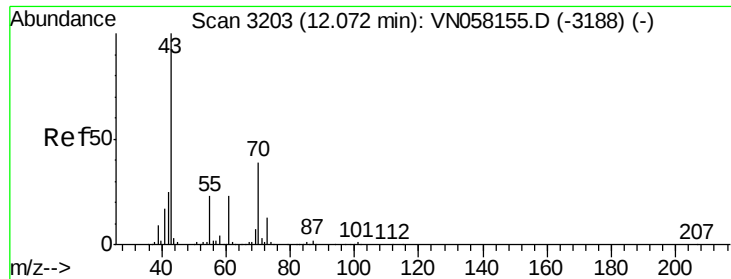
Delta R.T. -0.00 min

Lab File: VN058230.D

Acq: 20 Sep 2019 1:09

Tgt Ion:	105	Resp:	1205146
Ion Ratio	Lower	Upper	
105	100		
120	25.9	12.8	38.3





#74

N-amyl acetate

Concen: 50.019 ug/l

RT: 12.07 min Scan# 3203

Delta R.T. -0.00 min

Lab File: VN058230.D

Acq: 20 Sep 2019 1:09

Instrument :

MSVOA_N

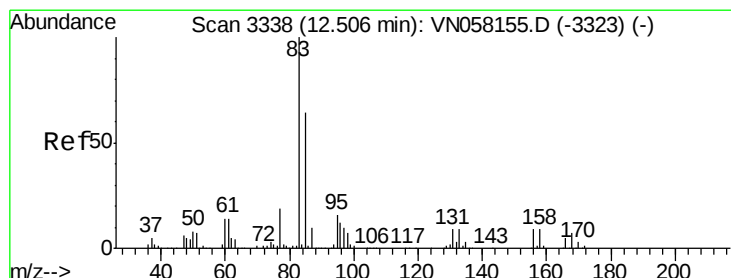
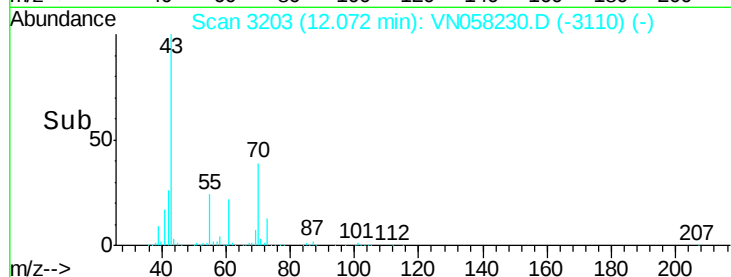
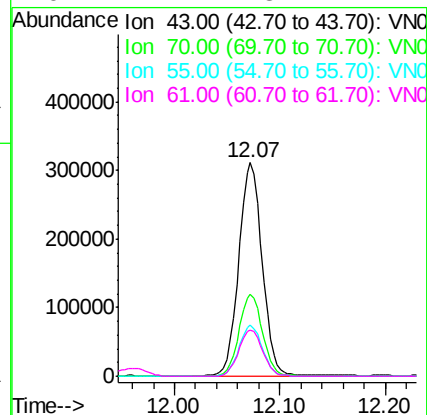
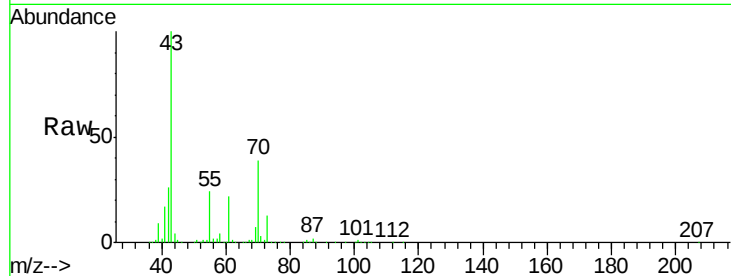
ClientSampleId :

RE123D1-20190912MS

Tot Ion	Ion	Ratio	Resp	Lower	Upper
43	100		478668		
70	38.5	31.0	46.6		
55	24.2	18.5	27.7		
61	22.2	18.2	27.2		

Manual Integrations
APPROVED

MMDadoda
9/20/2019 3:36:56 PM



#75

1,1,2,2-Tetrachloroethane

Concen: 52.162 ug/l

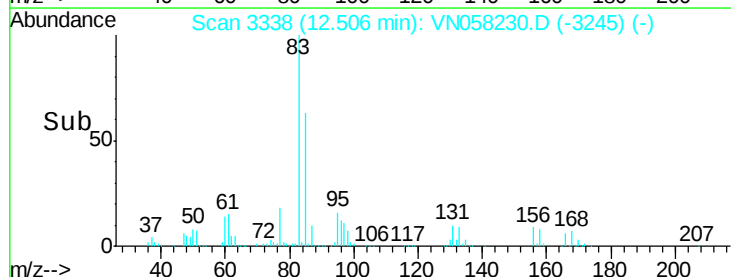
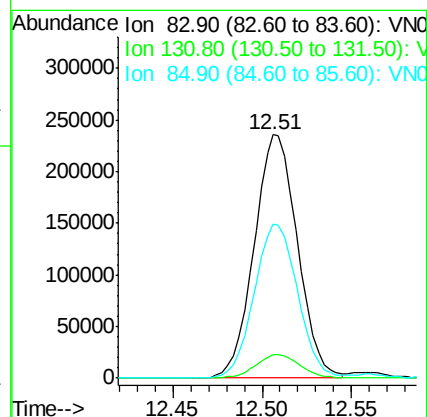
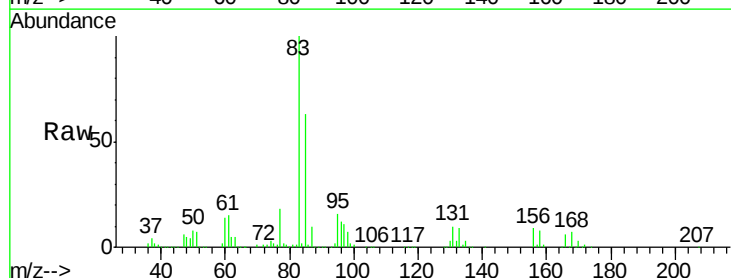
RT: 12.51 min Scan# 3338

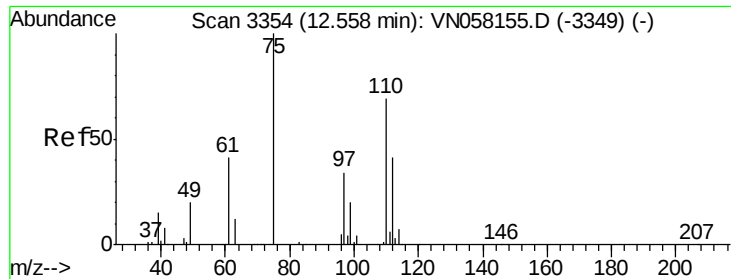
Delta R.T. -0.00 min

Lab File: VN058230.D

Acq: 20 Sep 2019 1:09

Tgt Ion	Ion	Ratio	Resp	Lower	Upper
83	100		399582		
131	9.9	4.8	14.3		
85	63.6	31.9	95.5		





#76

1,2,3-Trichloropropane

Concen: 50.701 ug/l m

RT: 12.56 min Scan# 3354

Delta R.T. -0.00 min

Lab File: VN058230.D

Acq: 20 Sep 2019 1:09

Instrument :

MSVOA_N

ClientSampleId :

RE123D1-20190912MS

Tot Ion: 75 Resp: 331615

Ion Ratio Lower Upper

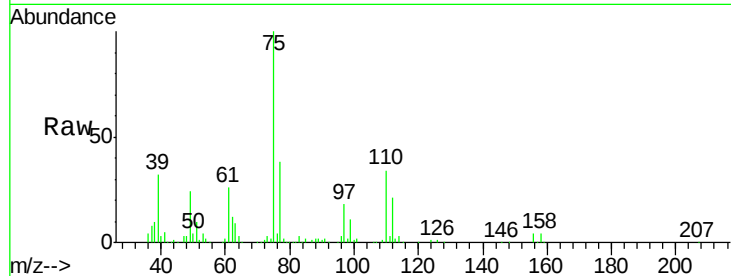
75 100

77 0.0 0.0 0.0

Manual Integrations
APPROVED

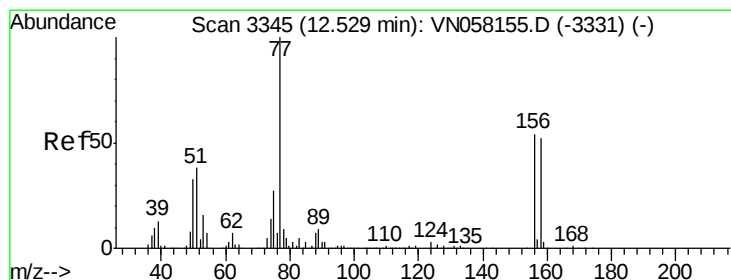
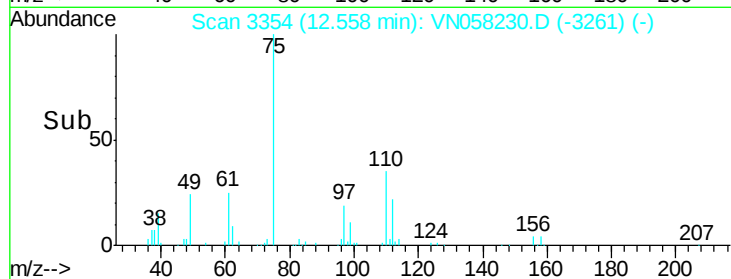
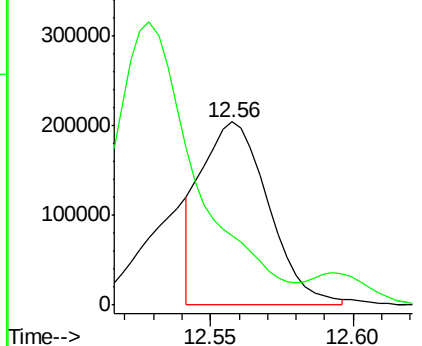
MMDadoda

9/20/2019 3:36:56 PM



Abundance Ion 74.90 (74.60 to 75.60): VN058155.D (-3349) (-)

Ion 77.00 (76.70 to 77.70): VN058155.D (-3349) (-)



#77

Bromobenzene

Concen: 49.997 ug/l

RT: 12.53 min Scan# 3345

Delta R.T. -0.00 min

Lab File: VN058230.D

Acq: 20 Sep 2019 1:09

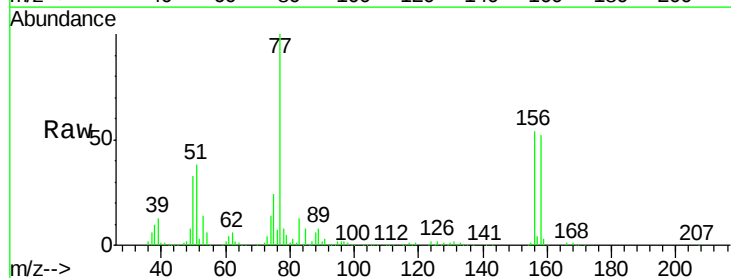
Tgt Ion: 156 Resp: 287689

Ion Ratio Lower Upper

156 100

77 222.4 111.7 335.1

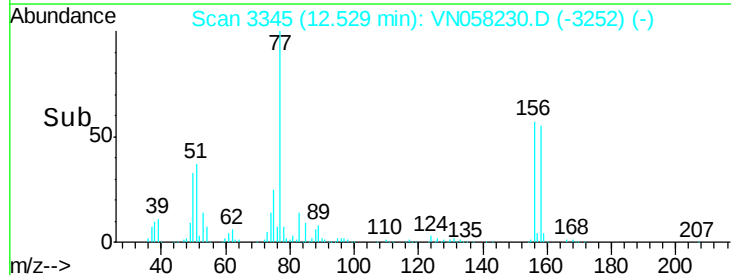
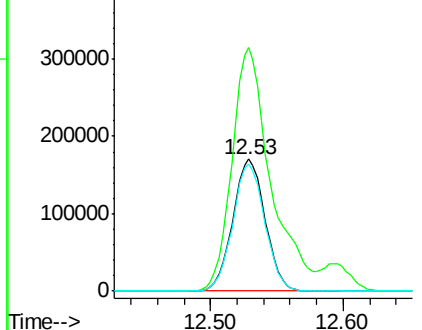
158 95.9 47.9 143.8

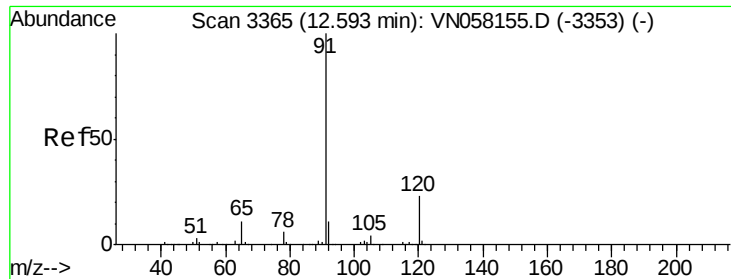


Abundance Ion 155.80 (155.50 to 156.50): VN058155.D (-3331) (-)

Ion 77.00 (76.70 to 77.70): VN058155.D (-3331) (-)

Ion 157.80 (157.50 to 158.50): VN058155.D (-3331) (-)





#78

n-propylbenzene

Concen: 53.890 ug/l

RT: 12.59 min Scan# 3365

Delta R.T. -0.00 min

Lab File: VN058230.D

Acq: 20 Sep 2019 1:09

Instrument :

MSVOA_N

ClientSampleId :

RE123D1-20190912MS

Tot Ion: 91 Resp: 1400855

Ion Ratio Lower Upper

91 100

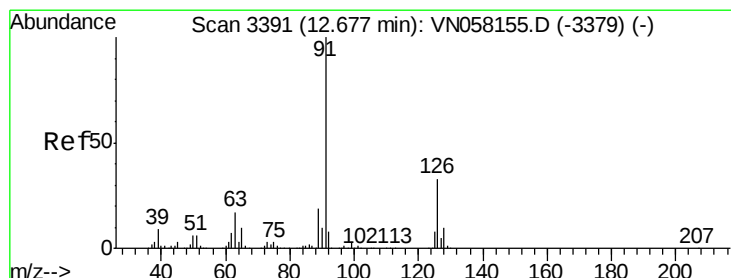
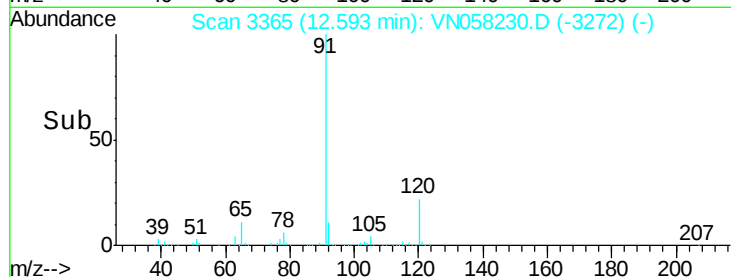
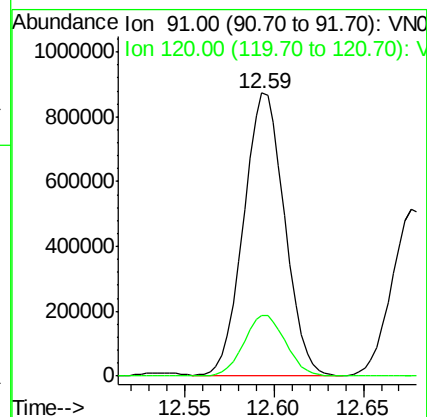
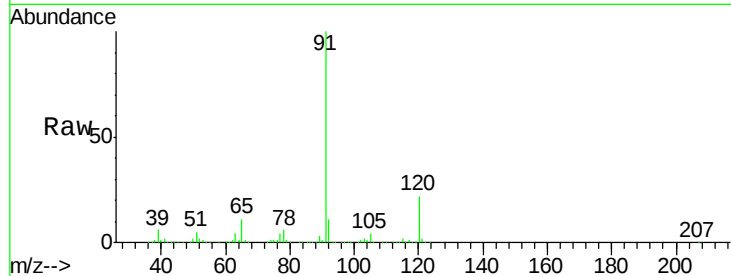
120 21.9 11.1 33.3

Manual Integrations

APPROVED

MMDadoda

9/20/2019 3:36:56 PM



#79

2-Chlorotoluene

Concen: 52.271 ug/l

RT: 12.68 min Scan# 3391

Delta R.T. -0.00 min

Lab File: VN058230.D

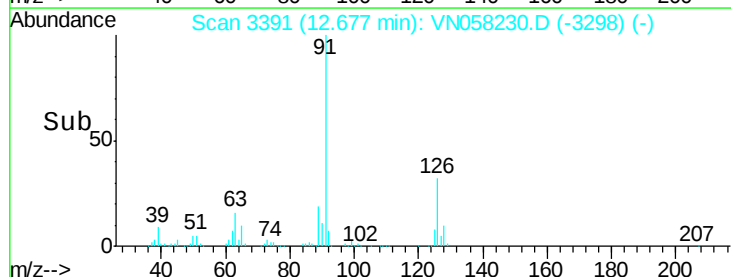
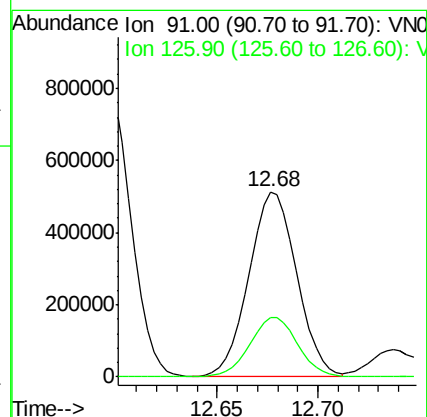
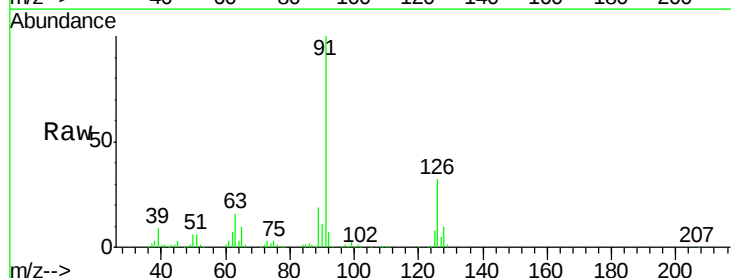
Acq: 20 Sep 2019 1:09

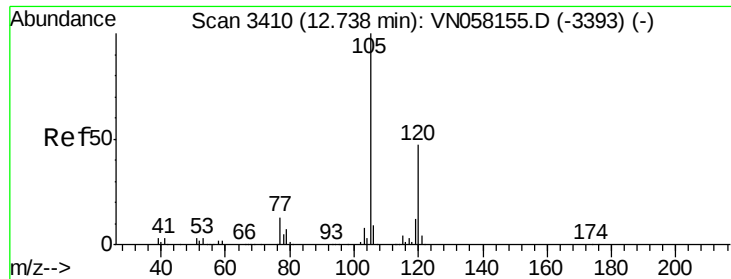
Tgt Ion: 91 Resp: 849188

Ion Ratio Lower Upper

91 100

126 32.2 16.4 49.1





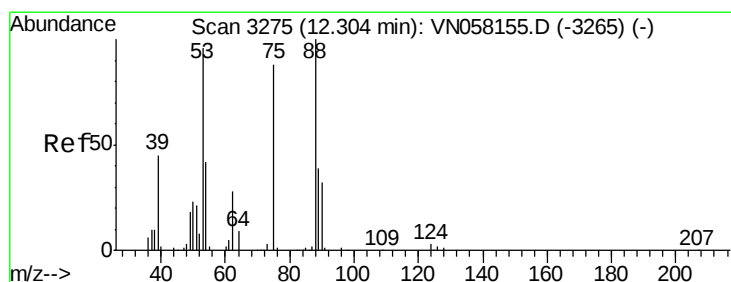
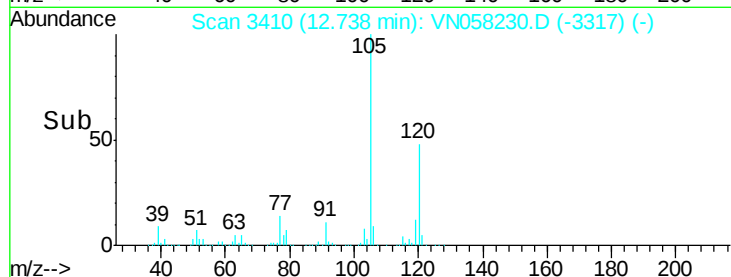
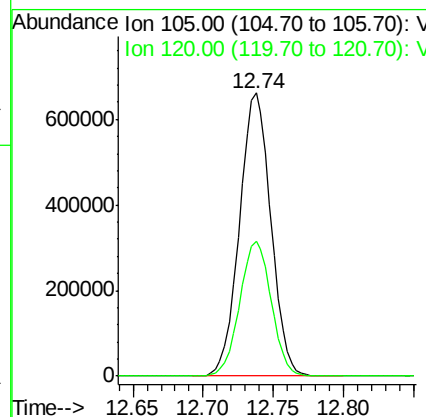
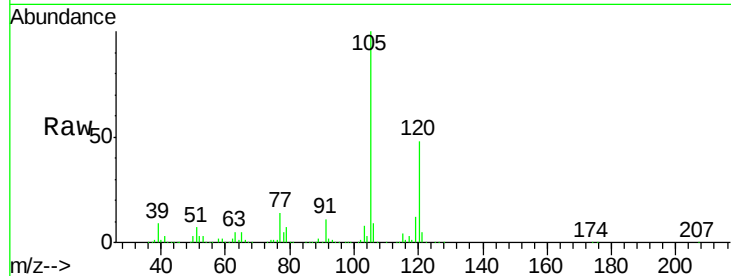
#80
 1,3,5-Trimethylbenzene
 Concen: 53.149 ug/l
 RT: 12.74 min Scan# 3410
 Delta R.T. -0.00 min
 Lab File: VN058230.D
 Acq: 20 Sep 2019 1:09

Instrument :
 MSVOA_N
 ClientSampleId :
 RE123D1-20190912MS

Tot Ion:105 Resp: 1028115
 Ion Ratio Lower Upper
 105 100
 120 48.2 23.4 70.0

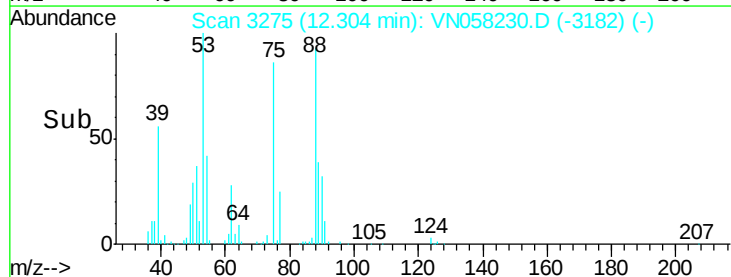
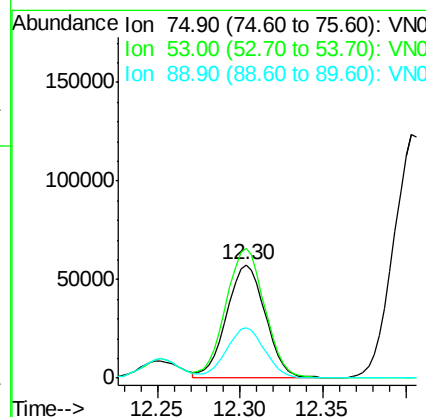
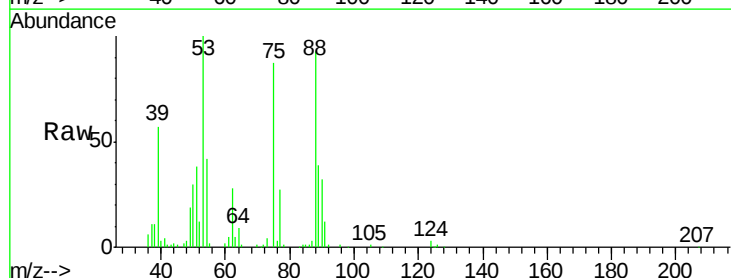
Manual Integrations
 APPROVED

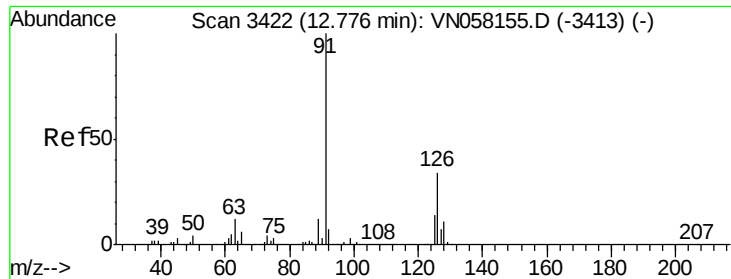
MMDadoda
 9/20/2019 3:36:56 PM



#81
 trans-1,4-Dichloro-2-butene
 Concen: 43.694 ug/l
 RT: 12.30 min Scan# 3275
 Delta R.T. 0.00 min
 Lab File: VN058230.D
 Acq: 20 Sep 2019 1:09

Tgt Ion: 75 Resp: 94210
 Ion Ratio Lower Upper
 75 100
 53 115.2 90.1 135.1
 89 44.2 36.2 54.2





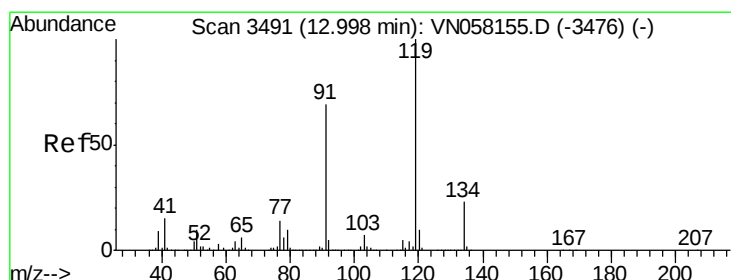
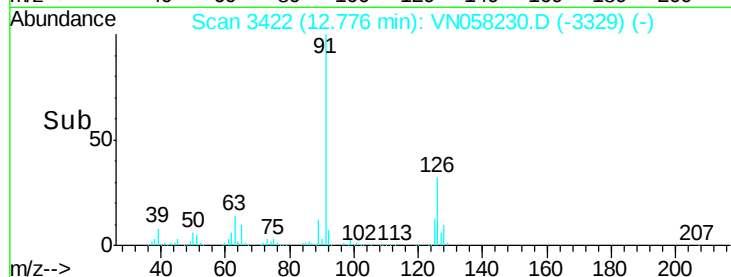
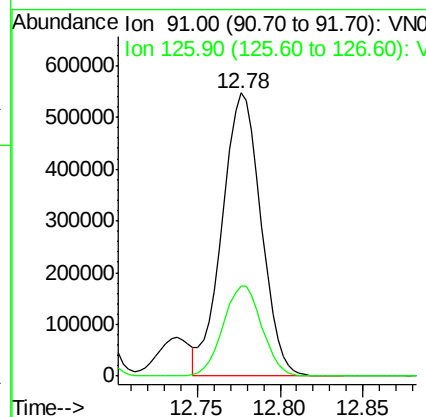
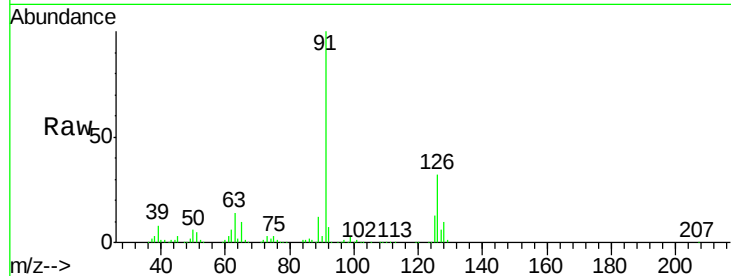
#82
4-Chlorotoluene
Concen: 52.196 ug/l
RT: 12.78 min Scan# 3422
Delta R.T. -0.00 min
Lab File: VN058230.D
Acq: 20 Sep 2019 1:09

Instrument :
MSVOA_N
ClientSampleId :
RE123D1-20190912MS

Tot Ion	Ratio	Lower	Upper
91	100		
126	32.0	15.7	47.1

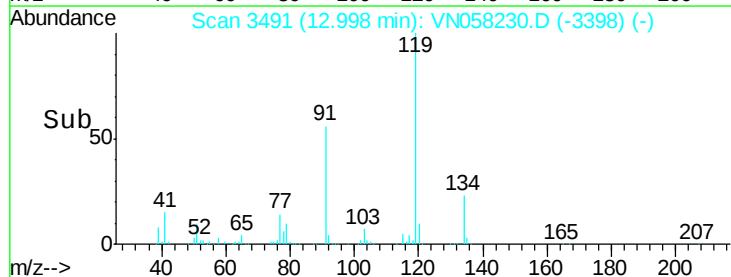
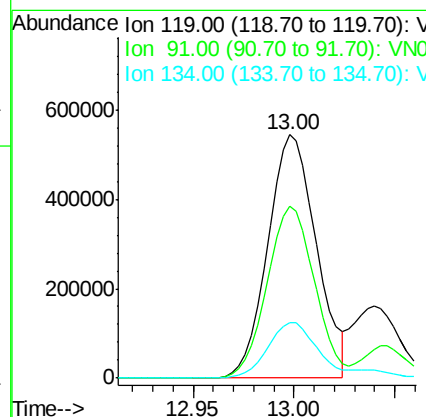
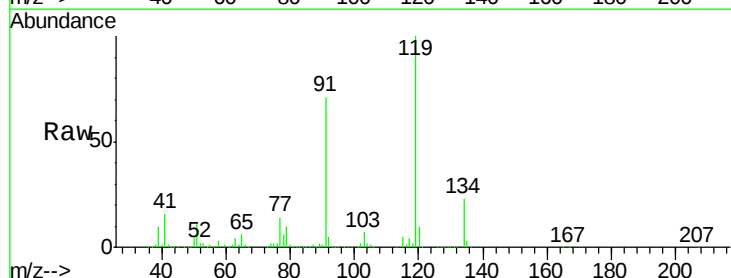
Manual Integrations
APPROVED

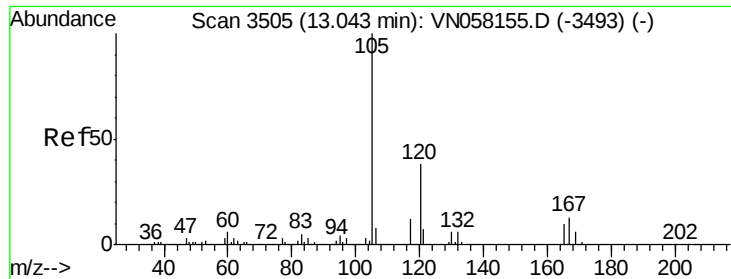
MMDadoda
9/20/2019 3:36:56 PM



#83
tert-Butylbenzene
Concen: 52.823 ug/l
RT: 13.00 min Scan# 3491
Delta R.T. -0.00 min
Lab File: VN058230.D
Acq: 20 Sep 2019 1:09

Tgt Ion	Ratio	Lower	Upper
119	100		
91	69.3	33.8	101.3
134	25.8	11.6	34.8





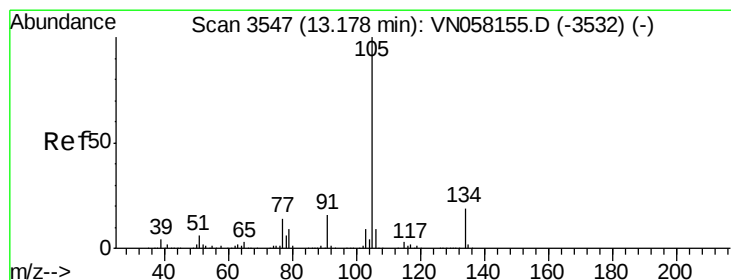
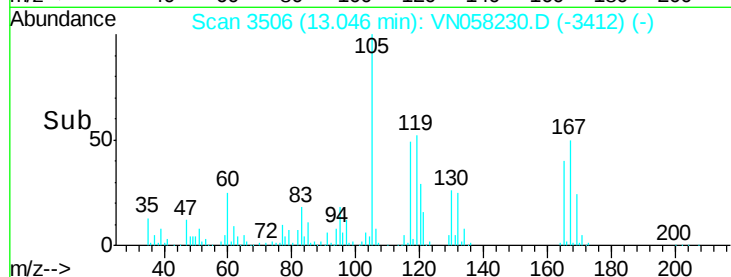
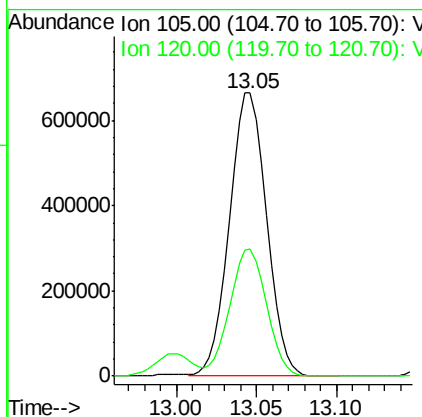
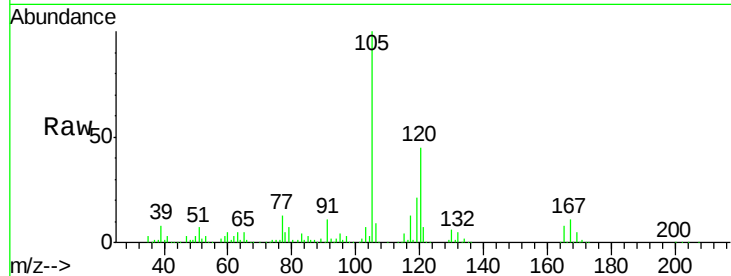
#84
 1,2,4-Trimethylbenzene
 Concen: 54.397 ug/l
 RT: 13.05 min Scan# 3506
 Delta R.T. 0.00 min
 Lab File: VN058230.D
 Acq: 20 Sep 2019 1:09

Instrument :
 MSVOA_N
 ClientSampleId :
 RE123D1-20190912MS

Tot Ion:105 Resp: 1047165
 Ion Ratio Lower Upper
 105 100
 120 44.6 22.1 66.5

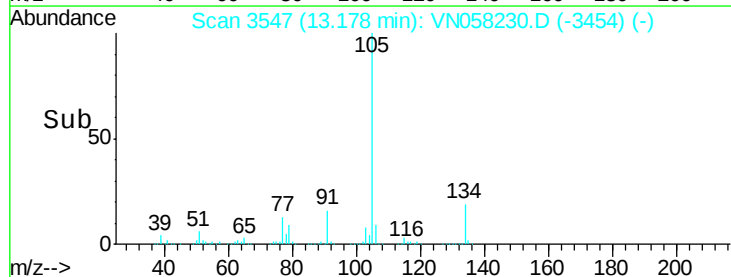
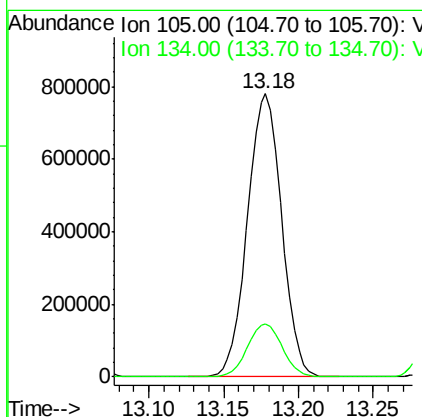
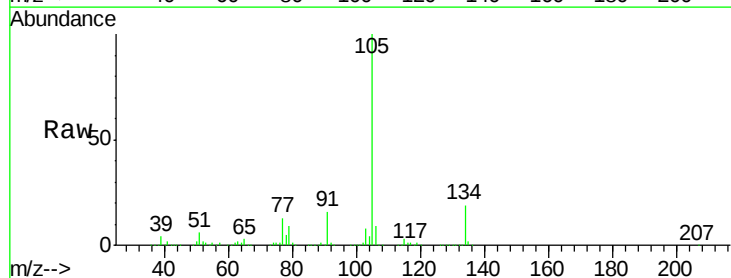
Manual Integrations
 APPROVED

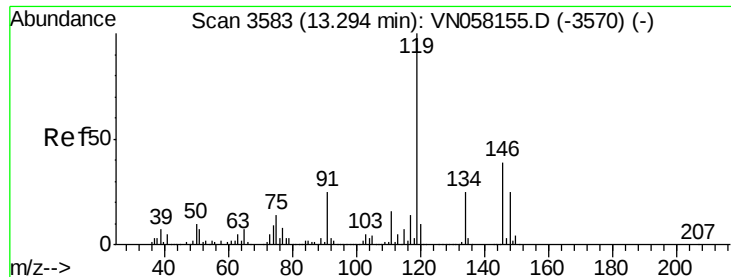
MMDadoda
 9/20/2019 3:36:56 PM



#85
 sec-Butylbenzene
 Concen: 54.926 ug/l
 RT: 13.18 min Scan# 3547
 Delta R.T. -0.00 min
 Lab File: VN058230.D
 Acq: 20 Sep 2019 1:09

Tgt Ion:105 Resp: 1239024
 Ion Ratio Lower Upper
 105 100
 134 19.0 9.5 28.5





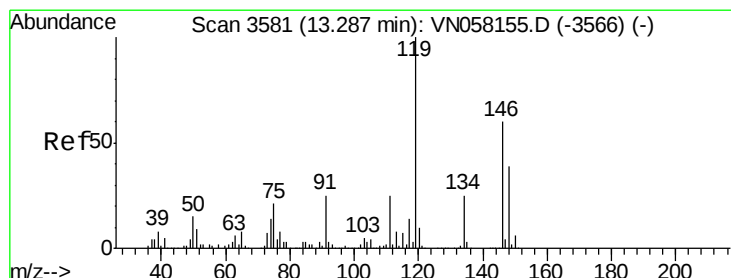
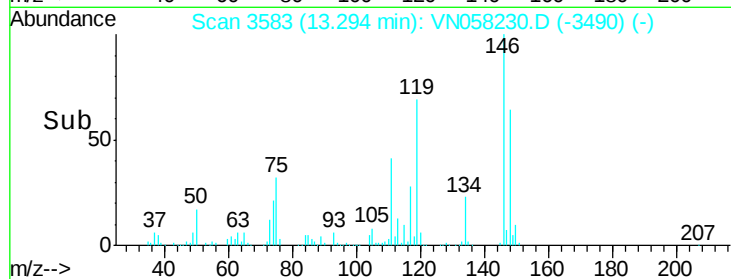
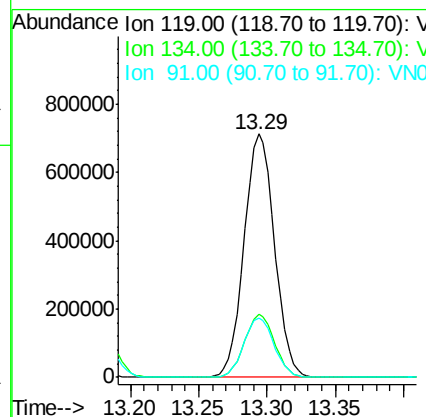
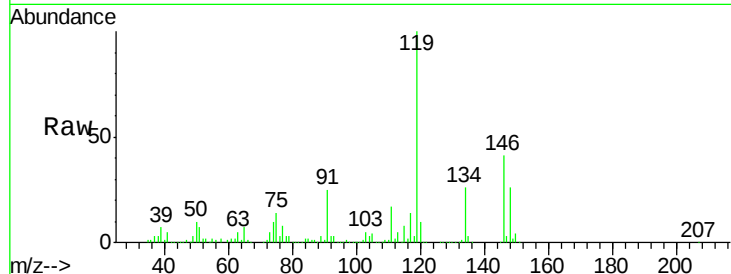
#86
 p-Isopropyltoluene
 Concen: 54.753 ug/l
 RT: 13.29 min Scan# 3583
 Delta R.T. -0.00 min
 Lab File: VN058230.D
 Acq: 20 Sep 2019 1:09

Instrument :
 MSVOA_N
 ClientSampleId :
 RE123D1-20190912MS

Tot Ion	Ratio	Lower	Upper
119	100		
134	25.7	12.7	38.0
91	24.6	12.3	36.8

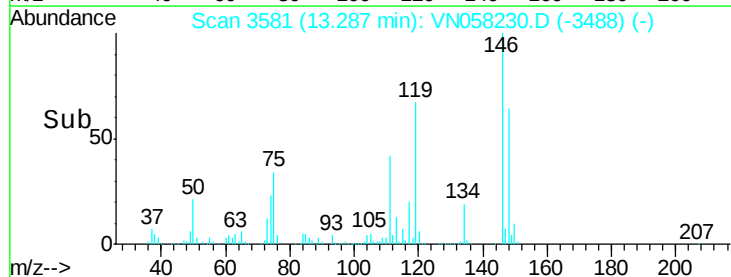
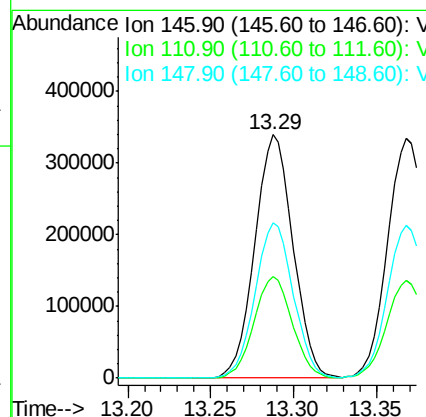
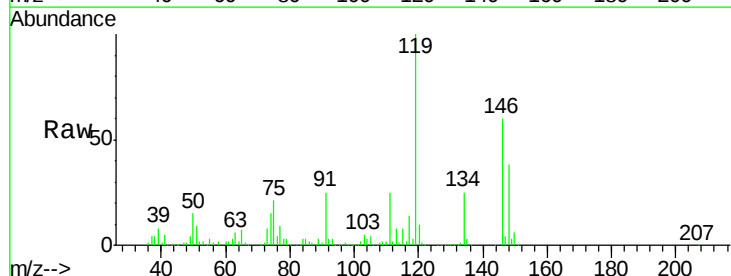
Manual Integrations
 APPROVED

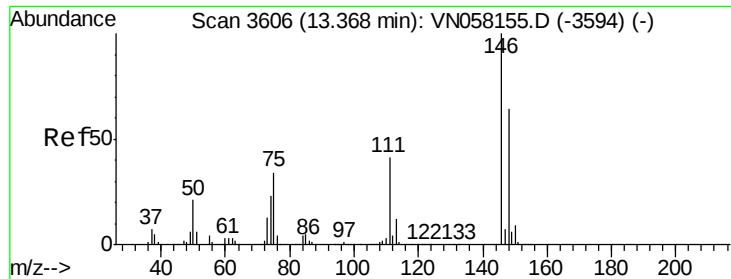
MMDadoda
 9/20/2019 3:36:56 PM



#87
 1,3-Dichlorobenzene
 Concen: 51.755 ug/l
 RT: 13.29 min Scan# 3581
 Delta R.T. -0.00 min
 Lab File: VN058230.D
 Acq: 20 Sep 2019 1:09

Tgt Ion	Ratio	Lower	Upper
146	100		
111	41.7	20.9	62.8
148	63.6	32.0	96.2





#88

1,4-Dichlorobenzene

Concen: 51.065 ug/l

RT: 13.37 min Scan# 3606

Delta R.T. -0.00 min

Lab File: VN058230.D

Acq: 20 Sep 2019 1:09

Instrument :

MSVOA_N

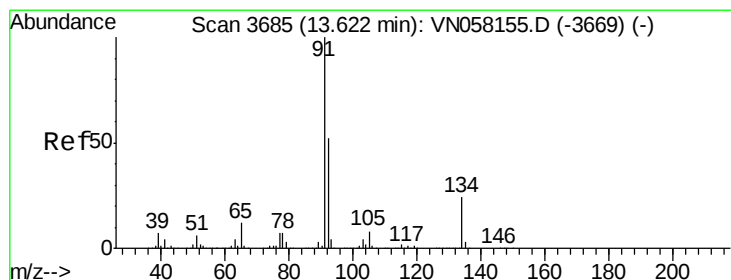
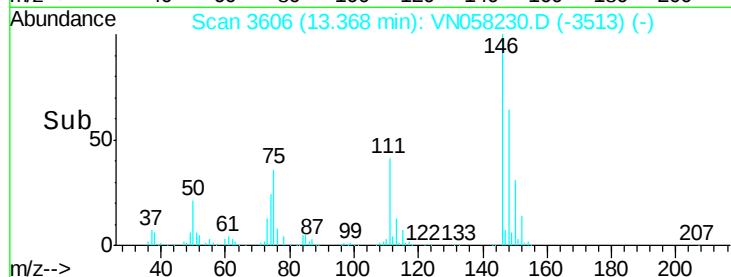
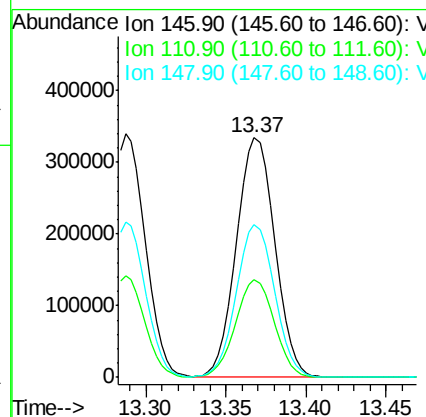
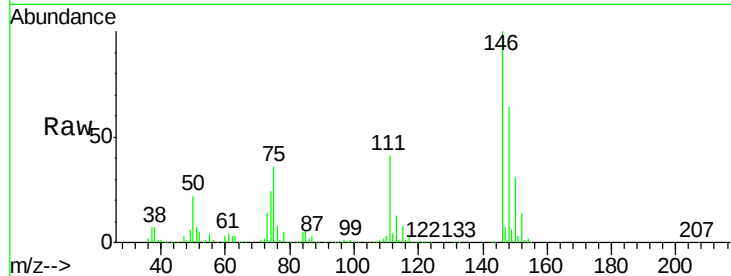
ClientSampleId :

RE123D1-20190912MS

Tot Ion:	146	Resp:	547913
Ion Ratio	Lower	Upper	
146	100		
111	40.9	20.5	61.5
148	63.5	31.9	95.5

Manual Integrations
APPROVED

MMDadoda
9/20/2019 3:36:56 PM



#89

n-Butylbenzene

Concen: 52.586 ug/l

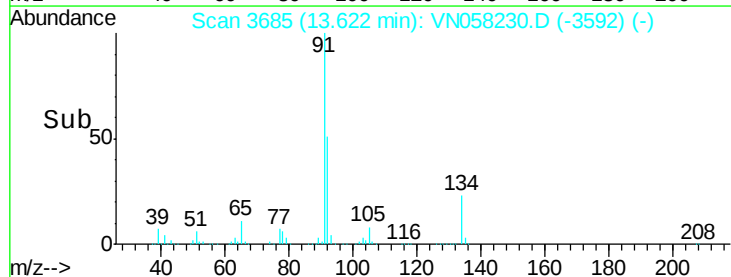
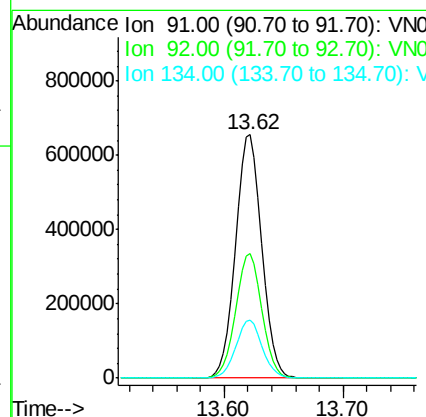
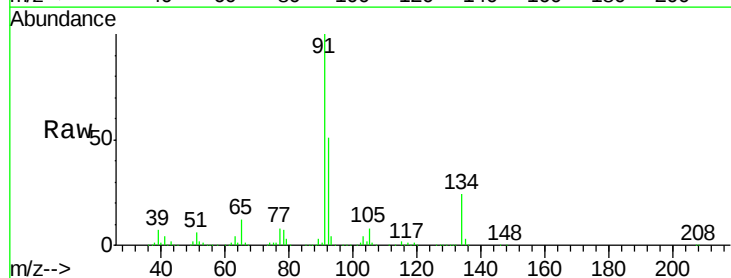
RT: 13.62 min Scan# 3685

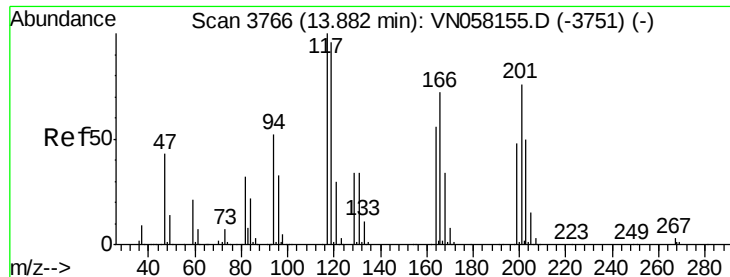
Delta R.T. -0.00 min

Lab File: VN058230.D

Acq: 20 Sep 2019 1:09

Tgt Ion:	91	Resp:	999836
Ion Ratio	Lower	Upper	
91	100		
92	51.1	25.7	77.0
134	23.8	11.8	35.4





#90

Hexachloroethane

Concen: 49.511 ug/l

RT: 13.88 min Scan# 3766

Delta R.T. 0.00 min

Lab File: VN058230.D

Acq: 20 Sep 2019 1:09

Instrument :

MSVOA_N

ClientSampleId :

RE123D1-20190912MS

Tot Ion:117 Resp: 174012

Ion Ratio Lower Upper

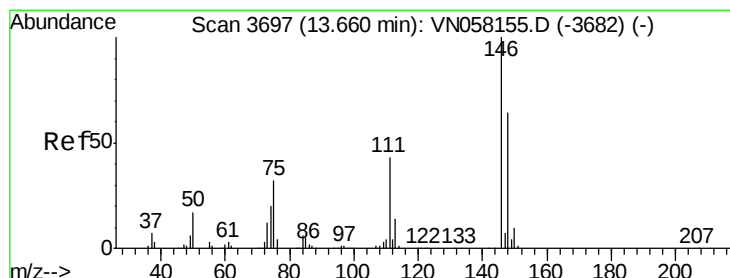
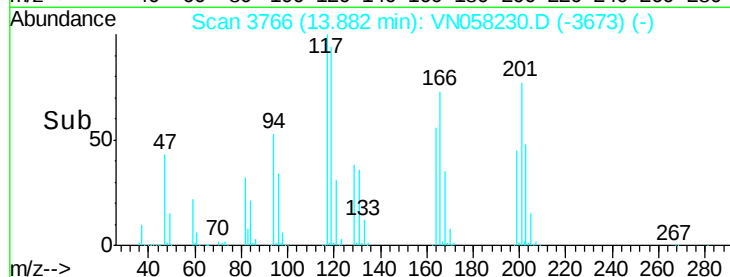
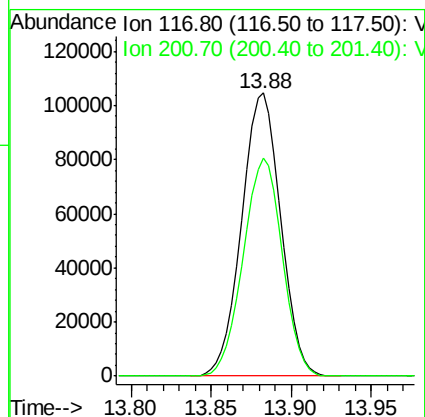
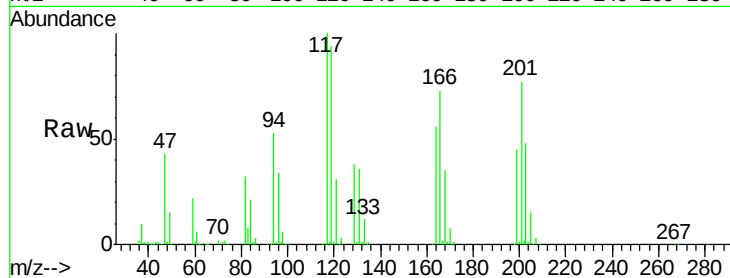
117 100

201 77.0 37.5 112.5

Manual Integrations
APPROVED

MMDadoda

9/20/2019 3:36:56 PM



#91

1,2-Dichlorobenzene

Concen: 52.268 ug/l

RT: 13.66 min Scan# 3697

Delta R.T. -0.00 min

Lab File: VN058230.D

Acq: 20 Sep 2019 1:09

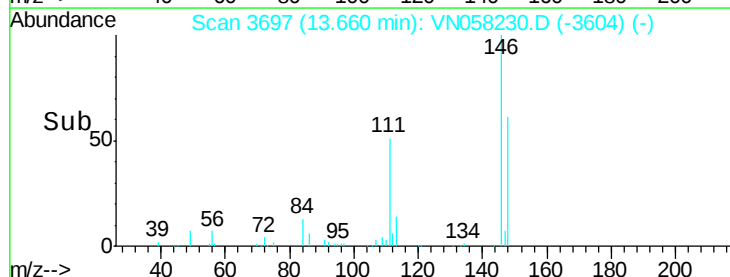
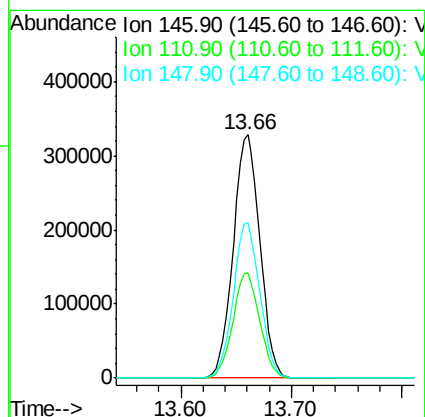
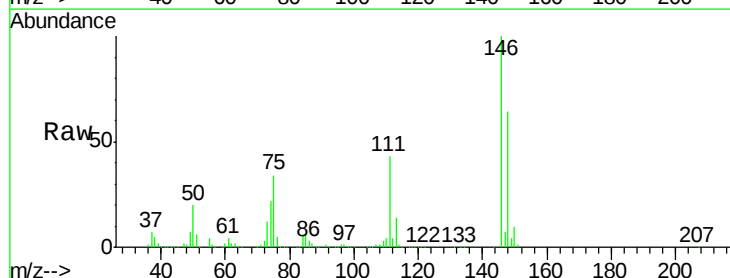
Tgt Ion:146 Resp: 551043

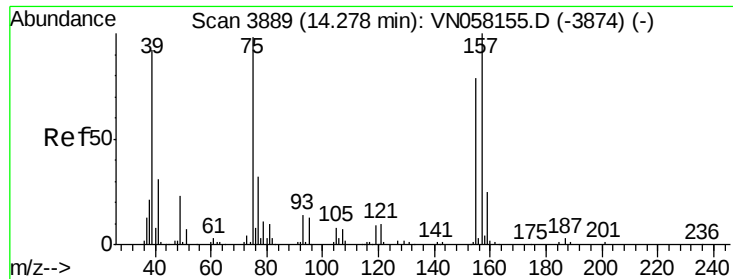
Ion Ratio Lower Upper

146 100

111 43.2 21.1 63.1

148 63.3 31.8 95.4





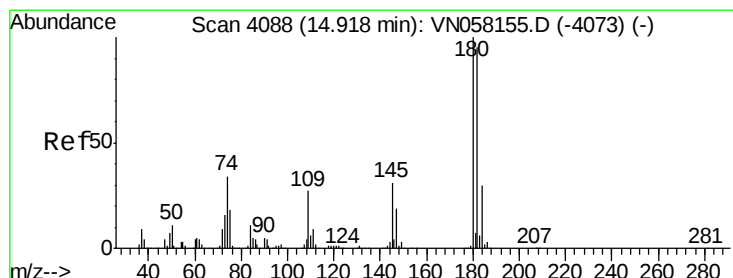
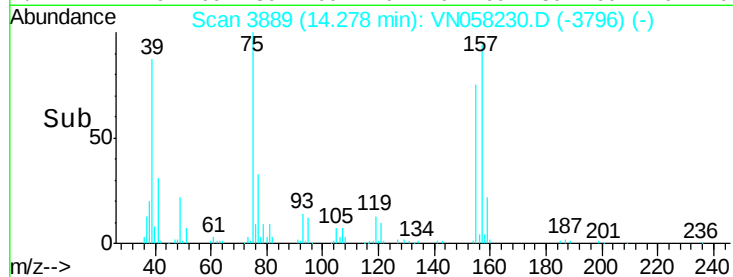
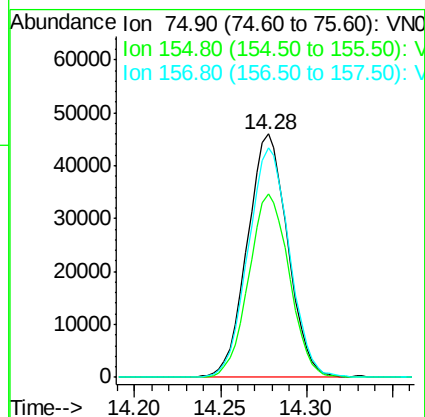
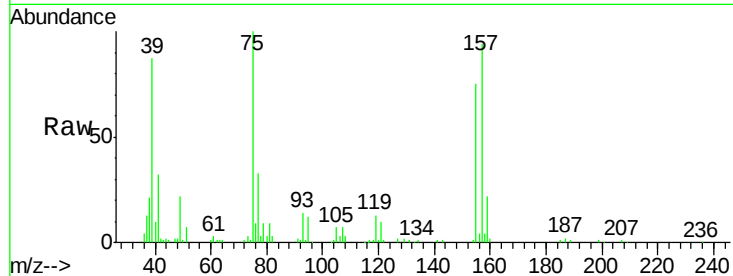
#92
 1,2-Dibromo-3-Chloropropane
 Concen: 54.347 ug/l
 RT: 14.28 min Scan# 3889
 Delta R.T. -0.00 min
 Lab File: VN058230.D
 Acq: 20 Sep 2019 1:09

Instrument :
 MSVOA_N
 ClientSampleId :
 RE123D1-20190912MS

Tot Ion	Ratio	Lower	Upper
75	100		
155	75.7	38.3	114.8
157	96.3	48.0	144.0

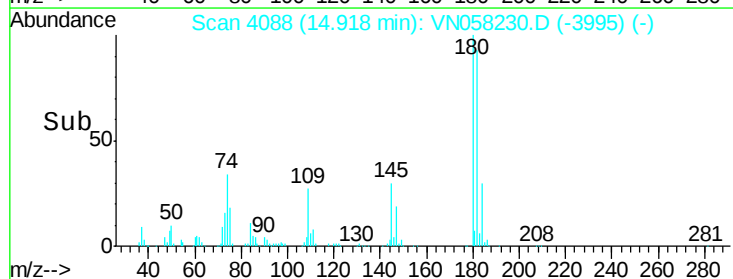
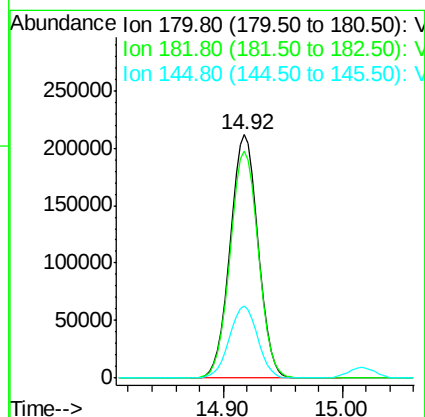
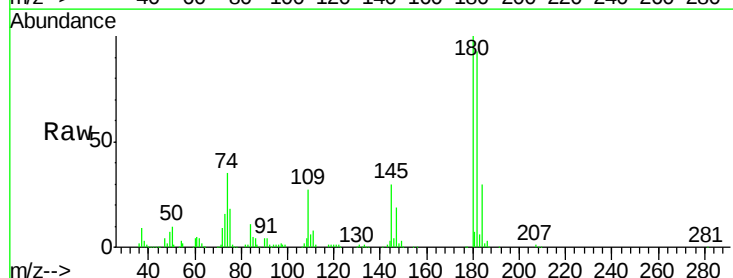
Manual Integrations
 APPROVED

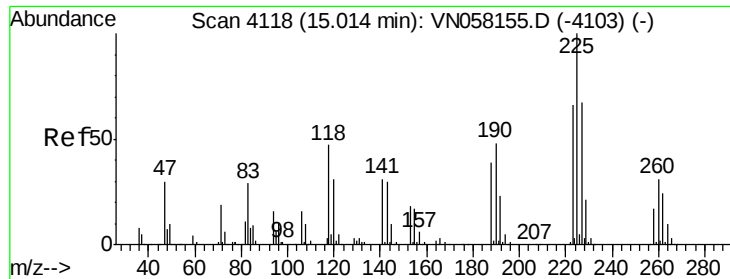
MMDadoda
 9/20/2019 3:36:56 PM



#93
 1,2,4-Trichlorobenzene
 Concen: 51.085 ug/l
 RT: 14.92 min Scan# 4088
 Delta R.T. -0.00 min
 Lab File: VN058230.D
 Acq: 20 Sep 2019 1:09

Tgt Ion	Ratio	Lower	Upper
180	100		
182	94.5	47.8	143.3
145	30.1	15.4	46.4





#94

Hexachlorobutadiene

Concen: 47.484 ug/l

RT: 15.02 min Scan# 4119

Delta R.T. 0.00 min

Lab File: VN058230.D

Acq: 20 Sep 2019 1:09

Instrument :

MSVOA_N

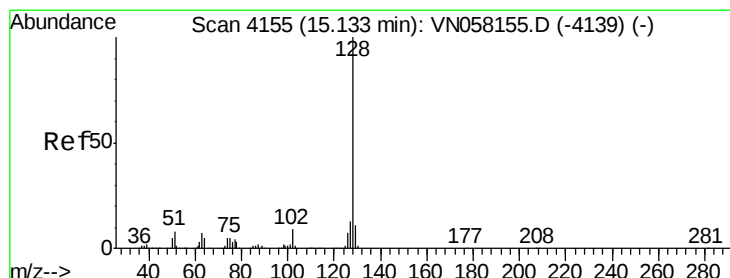
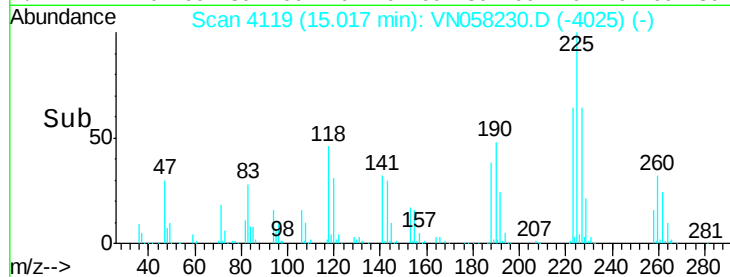
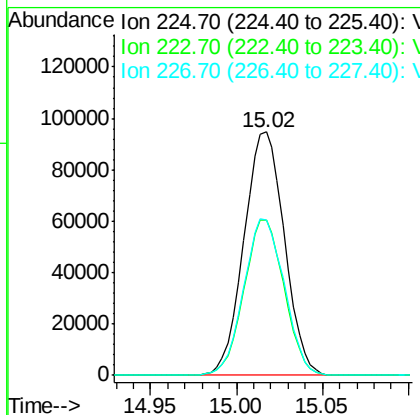
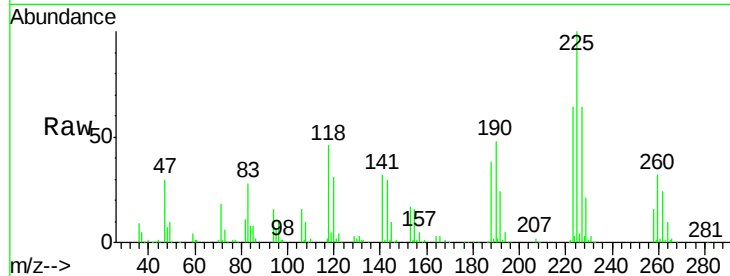
ClientSampleId :

RE123D1-20190912MS

Tot Ion:	225	Resp:	154594
Ion Ratio		Lower	Upper
225	100		
223	63.3	32.6	97.7
227	64.5	33.0	99.0

Manual Integrations
APPROVED

MMDadoda
9/20/2019 3:36:56 PM



#95

Naphthalene

Concen: 53.468 ug/l

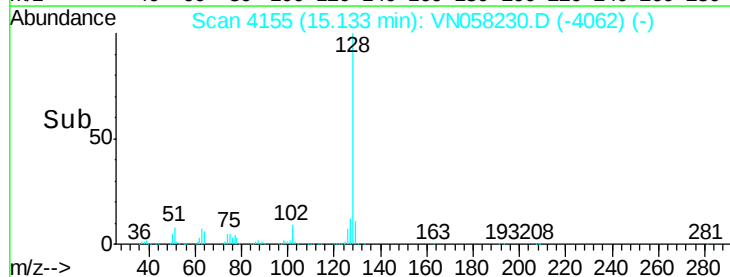
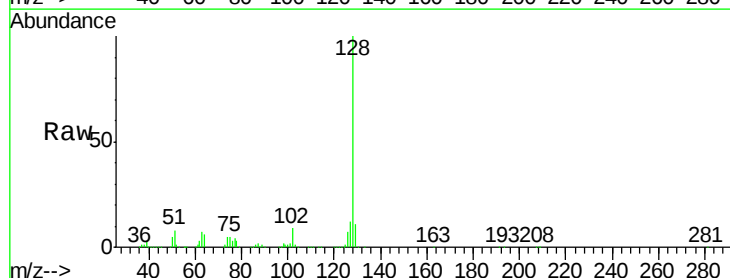
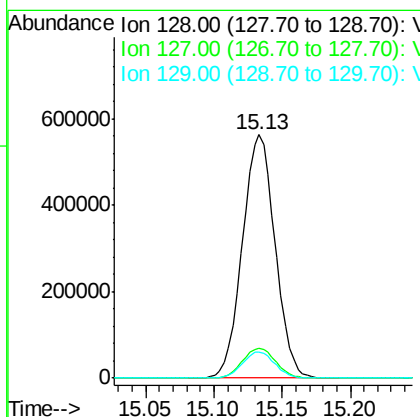
RT: 15.13 min Scan# 4155

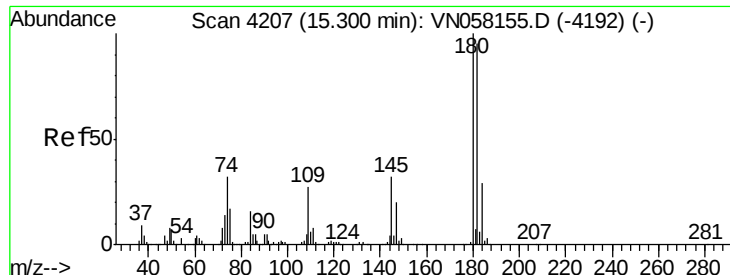
Delta R.T. -0.00 min

Lab File: VN058230.D

Acq: 20 Sep 2019 1:09

Tgt Ion:	128	Resp:	933376
Ion Ratio		Lower	Upper
128	100		
127	12.5	10.2	15.2
129	10.7	8.6	12.8





#96
 1,2,3-Trichlorobenzene
 Concen: 50.588 ug/l
 RT: 15.30 min Scan# 4207
 Delta R.T. -0.00 min
 Lab File: VN058230.D
 Acq: 20 Sep 2019 1:09

Instrument :
 MSVOA_N
 ClientSampleId :
 RE123D1-20190912MS

Tot Ion	Ratio	Resp	Lower	Upper
180	100			
182	95.2	47.4	142.2	
145	32.3	16.1	48.2	

Manual Integrations
 APPROVED

MMDadoda
 9/20/2019 3:36:56 PM

