

Data Path : Z:\VOASRV\HPCHEM1\MSVOA N\DATA\VN092719\
 Data File : VN058404.D
 Acq On : 27 Sep 2019 13:01
 Operator : JC/SP
 Sample : VSTDIC150
 Misc : 5.00mL/MSVOA N/WATER
 ALS Vial : 7 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 VSTDIC150

Manual Integrations
 APPROVED

MMDadoda
 9/30/2019 10:18:44 AM

Quant Time: Sep 27 23:38:54 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_N\METHODS\82N092719W.M
 Quant Title : SW846 8260
 QLast Update : Fri Sep 27 23:01:20 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	7.65	168	450946	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	8.57	114	755642	50.00	ug/l	0.00
63) Chlorobenzene-d5	11.41	117	680492	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.35	152	328002	50.00	ug/l	0.00

System Monitoring Compounds

33) 1,2-Dichloroethane-d4	8.01	65	940537	148.23	ug/l	0.00
Spiked Amount	50.000		Recovery	=	296.46%	
35) Dibromofluoromethane	7.57	113	691356	150.35	ug/l	0.00
Spiked Amount	50.000		Recovery	=	300.70%	
50) Toluene-d8	10.08	98	2612762	146.21	ug/l	0.00
Spiked Amount	50.000		Recovery	=	292.42%	
62) 4-Bromofluorobenzene	12.41	95	992909	150.02	ug/l	0.00
Spiked Amount	50.000		Recovery	=	300.04%	

Target Compounds

						Qvalue
2) Dichlorodifluoromethane	1.83	85	673273	169.417	ug/l	99
3) Chloromethane	2.04	50	703145	181.776	ug/l	100
4) Vinyl Chloride	2.17	62	707274	178.827	ug/l	100
5) Bromomethane	2.53	94	388895	192.581	ug/l	100
6) Chloroethane	2.67	64	403187	157.342	ug/l	99
7) Trichlorofluoromethane	2.99	101	838493	155.417	ug/l	97
8) Diethyl Ether	3.39	74	371167	153.136	ug/l	98
9) 1,1,2-Trichlorotrifluoroet	3.74	101	570177	148.788	ug/l	99
10) Methyl Iodide	3.93	142	730439	209.277	ug/l	99
11) Tert butyl alcohol	4.76	59	506600	679.324	ug/l	98
12) 1,1-Dichloroethene	3.72	96	564282	167.723	ug/l	99
13) Acrolein	3.58	56	169031	1292.006	ug/l	97
14) Allyl chloride	4.30	41	1068771	168.224	ug/l	98
15) Acrylonitrile	4.96	53	1454889	718.327	ug/l	100
16) Acetone	3.80	43	1389638	636.015	ug/l	99
17) Carbon Disulfide	4.03	76	1641712	270.246	ug/l	99
18) Methyl Acetate	4.30	43	709075	125.540	ug/l	99
19) Methyl tert-butyl Ether	5.02	73	2006455	142.466	ug/l	100
20) Methylene Chloride	4.53	84	650773	148.728	ug/l	98
21) trans-1,2-Dichloroethene	5.02	96	631705	173.113	ug/l	99
22) Diisopropyl ether	5.93	45	2245877	144.930	ug/l	99
23) Vinyl Acetate	5.87	43	8020974	736.162	ug/l #	90
24) 1,1-Dichloroethane	5.83	63	1251241	148.817	ug/l	99
25) 2-Butanone	6.81	43	2042027	691.631	ug/l	99
26) 2,2-Dichloropropane	6.81	77	1040883	146.361	ug/l	99
27) cis-1,2-Dichloroethene	6.81	96	729323	152.475	ug/l	99
28) Bromochloromethane	7.18	49	560330	146.801	ug/l	100
29) Tetrahydrofuran	7.19	42	1307498	711.540	ug/l	100
30) Chloroform	7.36	83	1251099	139.984	ug/l	99
31) Cyclohexane	7.64	56	1145926	169.906	ug/l	99
32) 1,1,1-Trichloroethane	7.55	97	1079090	156.578	ug/l	99
36) 1,1-Dichloropropene	7.78	75	972735	166.585	ug/l	100
37) Ethyl Acetate	6.91	43	849709	146.750	ug/l	99
38) Carbon Tetrachloride	7.76	117	926142	161.483	ug/l	99

Data Path : Z:\VOASRV\HPCHEM1\MSVOA N\DATA\VN092719\
 Data File : VN058404.D
 Acq On : 27 Sep 2019 13:01
 Operator : JC/SP
 Sample : VSTDICC150
 Misc : 5.00mL/MSVOA N/WATER
 ALS Vial : 7 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 VSTDICC150

Manual Integrations
 APPROVED

MMDadoda
 9/30/2019 10:18:44 AM

Quant Time: Sep 27 23:38:54 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_N\METHODS\82N092719W.M
 Quant Title : SW846 8260
 QLast Update : Fri Sep 27 23:01:20 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
39) Methylcyclohexane	9.07	83	1131301	179.342	ug/l	99
40) Benzene	8.03	78	2718596	155.222	ug/l	99
41) Methacrylonitrile	7.16	41	351121m	128.364	ug/l	
42) 1,2-Dichloroethane	8.11	62	1062659	147.343	ug/l	100
43) Isopropyl Acetate	8.15	43	1505931	140.030	ug/l #	90
44) Trichloroethene	8.82	130	685061	159.533	ug/l	98
45) 1,2-Dichloropropane	9.11	63	737554	144.698	ug/l	99
46) Dibromomethane	9.20	93	472449	151.214	ug/l	99
47) Bromodichloromethane	9.39	83	971138	151.015	ug/l	100
48) Methyl methacrylate	9.19	41	715833	146.791	ug/l	99
49) 1,4-Dioxane	9.19	88	207473	2681.589	ug/l	98
51) 4-Methyl-2-Pentanone	9.98	43	3690633	653.236	ug/l	92
52) Toluene	10.15	92	1707216	156.646	ug/l	95
53) t-1,3-Dichloropropene	10.38	75	1102025	164.944	ug/l	99
54) cis-1,3-Dichloropropene	9.83	75	1193828	161.405	ug/l	98
55) 1,1,2-Trichloroethane	10.56	97	645316	138.069	ug/l	97
56) Ethyl methacrylate	10.43	69	1055539	155.445	ug/l	99
57) 1,3-Dichloropropane	10.71	76	1151922	142.223	ug/l	100
58) 2-Chloroethyl Vinyl ether	9.69	63	2071624	666.554	ug/l	100
59) 2-Hexanone	10.75	43	2838732	678.202	ug/l	95
60) Dibromochloromethane	10.90	129	699932	155.574	ug/l	98
61) 1,2-Dibromoethane	11.00	107	670466	151.695	ug/l	100
64) Tetrachloroethene	10.63	164	566380	160.760	ug/l	97
65) Chlorobenzene	11.43	112	1781163	144.421	ug/l	100
66) 1,1,1,2-Tetrachloroethane	11.51	131	652626	148.216	ug/l	99
67) Ethyl Benzene	11.51	91	3074023	144.268	ug/l	90
68) m/p-Xylenes	11.62	106	2438318	303.440	ug/l	82
69) o-Xylene	11.95	106	1183930	150.621	ug/l	96
70) Styrene	11.97	104	2025799	151.222	ug/l	99
71) Bromoform	12.13	173	458818	165.509	ug/l #	98
73) Isopropylbenzene	12.25	105	2988771	140.805	ug/l	96
74) N-amyl acetate	12.07	43	1362082	155.212	ug/l	100
75) 1,1,2,2-Tetrachloroethane	12.51	83	912809	131.776	ug/l	99
76) 1,2,3-Trichloropropane	12.56	75	751354m	126.190	ug/l	
77) Bromobenzene	12.53	156	736492	139.155	ug/l	98
78) n-propylbenzene	12.60	91	3337625	138.279	ug/l	93
79) 2-Chlorotoluene	12.68	91	2177240	145.130	ug/l	99
80) 1,3,5-Trimethylbenzene	12.74	105	2598303	145.230	ug/l	96
81) trans-1,4-Dichloro-2-buten	12.30	75	298147	162.794	ug/l	98
82) 4-Chlorotoluene	12.78	91	2266156	144.458	ug/l	98
83) tert-Butylbenzene	13.00	119	2205347	139.565	ug/l	98
84) 1,2,4-Trimethylbenzene	13.05	105	2580785	144.872	ug/l	95
85) sec-Butylbenzene	13.18	105	2862311	138.527	ug/l	96
86) p-Isopropyltoluene	13.30	119	2614782	142.659	ug/l	98
87) 1,3-Dichlorobenzene	13.29	146	1362662	141.975	ug/l	99
88) 1,4-Dichlorobenzene	13.37	146	1362917	139.496	ug/l	99
89) n-Butylbenzene	13.62	91	2430544	141.827	ug/l	96
90) Hexachloroethane	13.88	117	451846	159.233	ug/l	99
91) 1,2-Dichlorobenzene	13.66	146	1325285	138.831	ug/l	100
92) 1,2-Dibromo-3-Chloropropan	14.28	75	186372	149.753	ug/l	99

Data Path : Z:\VOASRV\HPCHEM1\MSVOA N\DATA\VN092719\
Data File : VN058404.D
Acq On : 27 Sep 2019 13:01
Operator : JC/SP
Sample : VSTDICC150
Misc : 5.00mL/MSVOA N/WATER
ALS Vial : 7 Sample Multiplier: 1

Instrument :
MSVOA_N
ClientSampleId :
VSTDICC150

Manual Integrations
APPROVED

MMDadoda
9/30/2019 10:18:44 AM

Quant Time: Sep 27 23:38:54 2019
Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_N\METHODS\82N092719W.M
Quant Title : SW846 8260
QLast Update : Fri Sep 27 23:01:20 2019
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
93) 1,2,4-Trichlorobenzene	14.92	180	853489	142.118	ug/l	100
94) Hexachlorobutadiene	15.02	225	376132	129.354	ug/l	100
95) Naphthalene	15.13	128	2310917	148.822	ug/l	99
96) 1,2,3-Trichlorobenzene	15.30	180	793988	140.763	ug/l	99

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

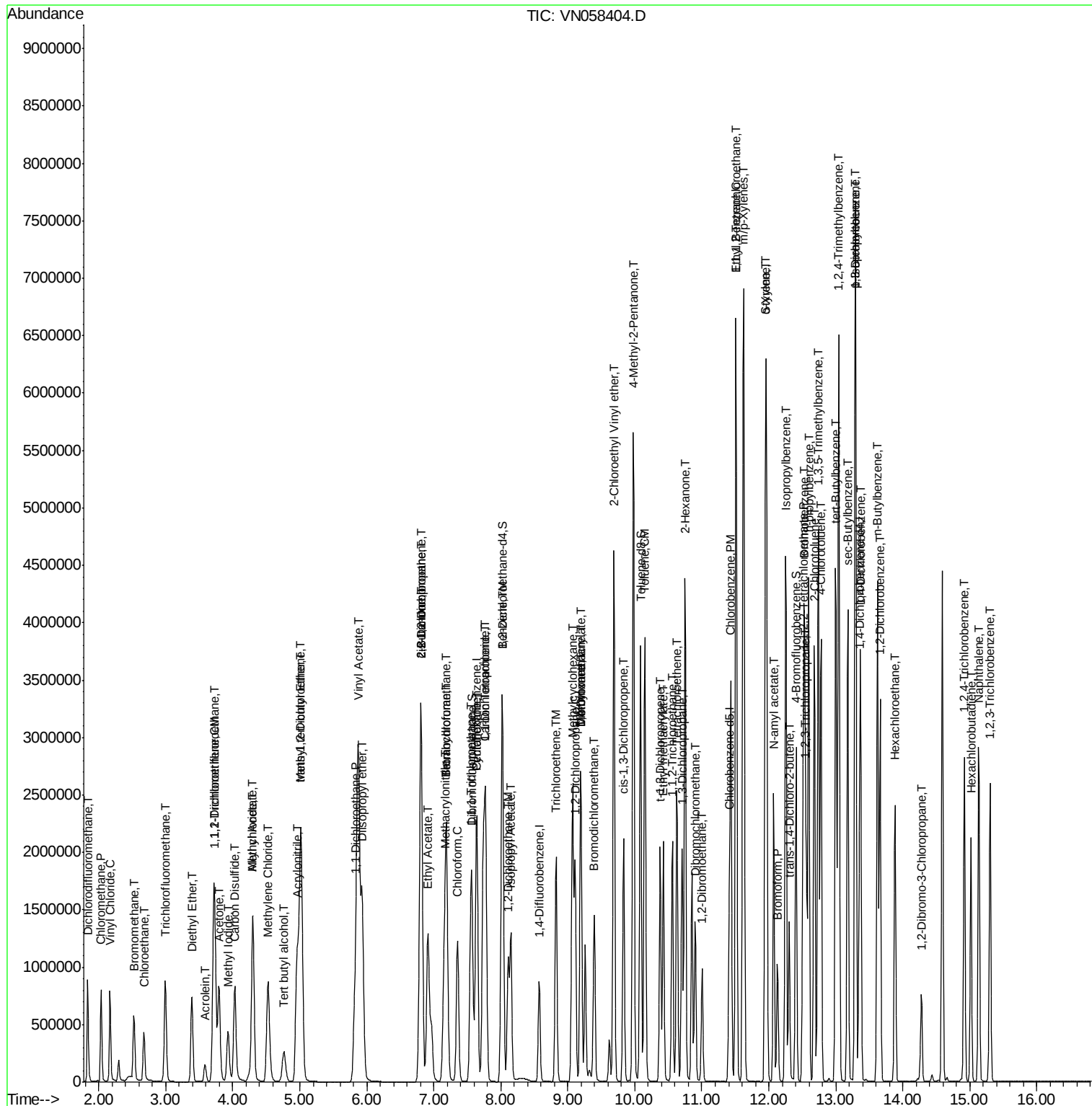
Data Path : Z:\V0ASRV\HPCHEM1\MSVOA N\DATA\VN092719\
Data File : VN058404.D
Acq On : 27 Sep 2019 13:01
Operator : JC/SP
Sample : VSTDICC150
Misc : 5.00mL/MSVOA N/WATER
ALS Vial : 7 Sample Multiplier: 1

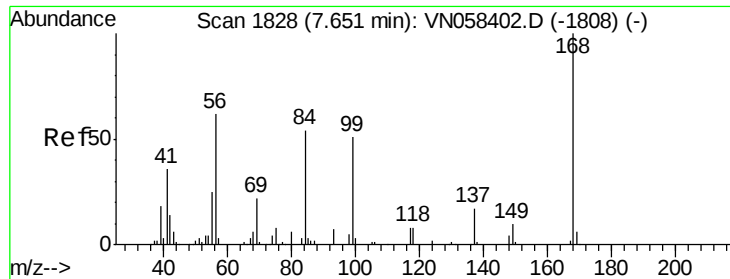
Instrument :
MSVOA_N
ClientSampleId :
VSTDICC150

Manual Integrations
APPROVED

MMDadoda
9/30/2019 10:18:44 AM

Quant Time: Sep 27 23:38:54 2019
Quant Method : Z:\V0ASRV\HPCHEM1\MSVOA_N\METHODS\82N092719W.M
Quant Title : SW846 8260
QLast Update : Fri Sep 27 23:01:20 2019
Response via : Initial Calibration





#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 7.65 min Scan# 1828

Delta R.T. -0.00 min

Lab File: VN058404.D

Acq: 27 Sep 2019 13:01

Instrument :

MSVOA_N

ClientSampleId :

VSTDIC150

Tot Ion:168 Resp: 450946

Ion Ratio Lower Upper

168 100

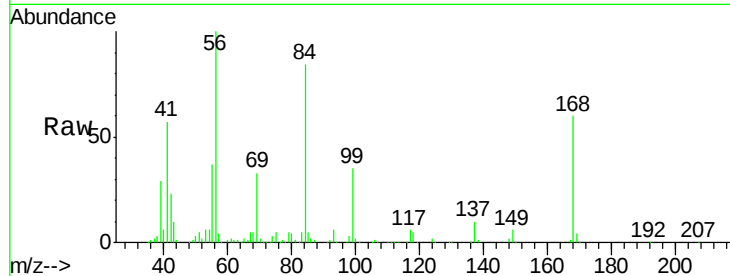
99 59.1 47.7 71.5

Manual Integrations

APPROVED

MMDadoda

9/30/2019 10:18:44 AM



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VNO

300000

250000

200000

150000

100000

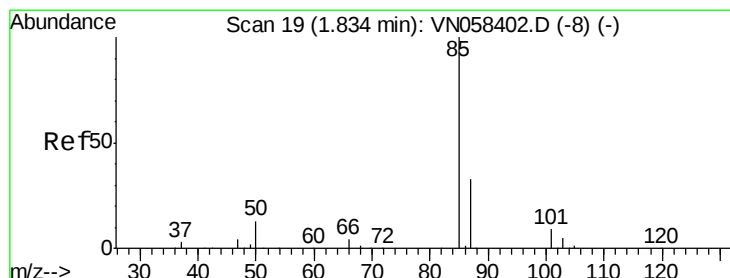
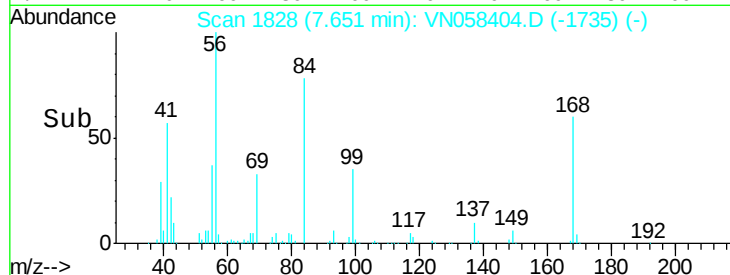
50000

0

7.60

7.70

Time-->



#2

Dichlorodifluoromethane

Concen: 169.417 ug/l

RT: 1.83 min Scan# 19

Delta R.T. -0.00 min

Lab File: VN058404.D

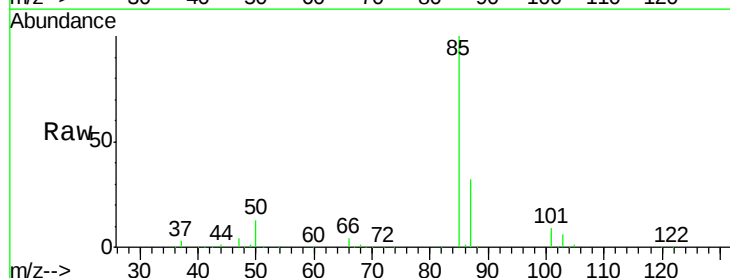
Acq: 27 Sep 2019 13:01

Tgt Ion: 85 Resp: 673273

Ion Ratio Lower Upper

85 100

87 31.9 16.4 49.1



Abundance Ion 84.90 (84.60 to 85.60): VNO

Ion 86.90 (86.60 to 87.60): VNO

500000

400000

300000

200000

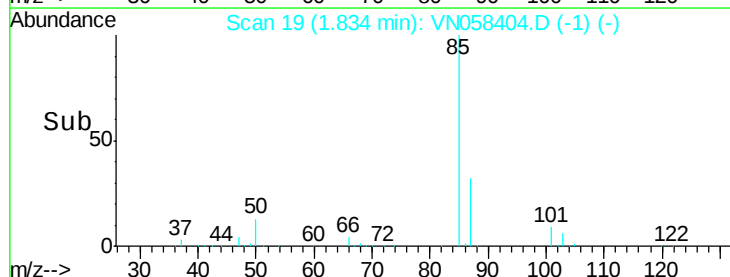
100000

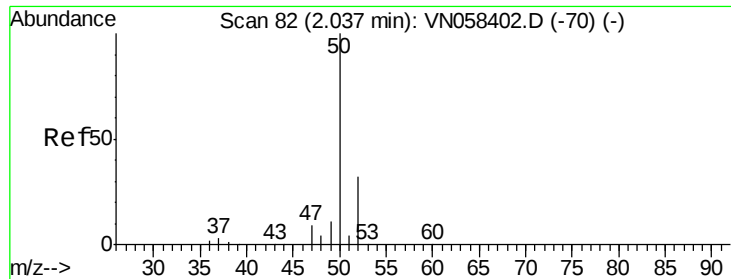
0

1.80

1.90

Time-->





#3

Chloromethane

Concen: 181.776 ug/l

RT: 2.04 min Scan# 82

Delta R.T. -0.00 min

Lab File: VN058404.D

Acq: 27 Sep 2019 13:01

Instrument :

MSVOA_N

ClientSampleId :

VSTDIC150

Tot Ion: 50 Resp: 703145

Ion Ratio Lower Upper

50 100

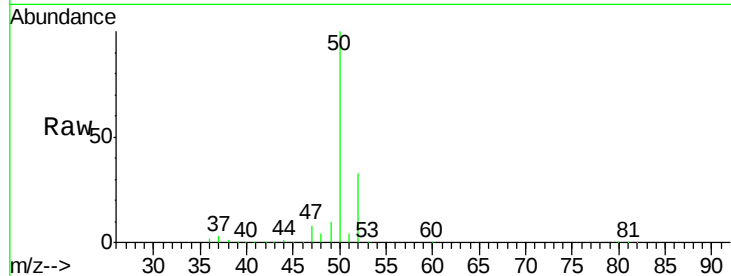
52 32.5 25.9 38.9

Manual Integrations

APPROVED

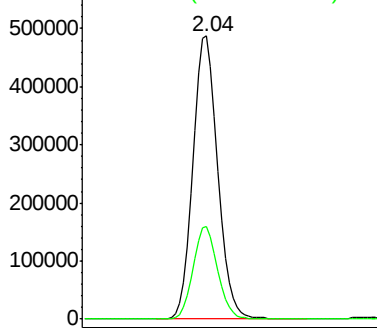
MMDadoda

9/30/2019 10:18:44 AM

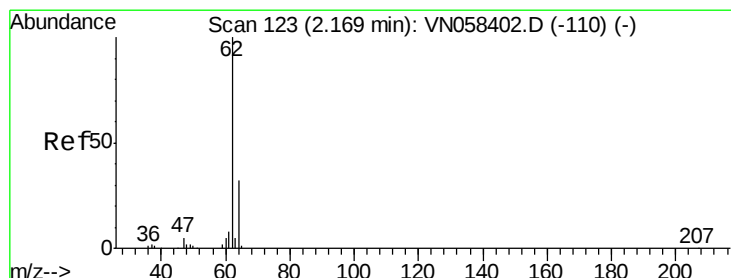
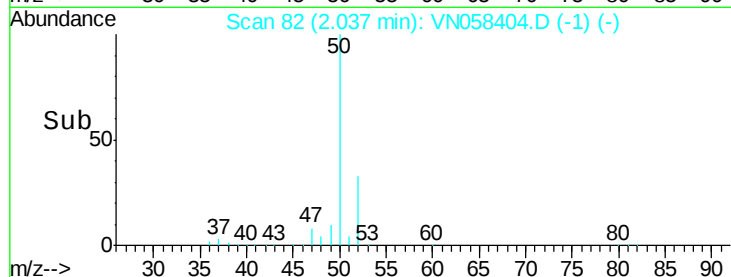


Abundance Ion 49.90 (49.60 to 50.60): VNO

Ion 51.90 (51.60 to 52.60): VNO



Time-->



#4

Vinyl Chloride

Concen: 178.827 ug/l

RT: 2.17 min Scan# 123

Delta R.T. -0.00 min

Lab File: VN058404.D

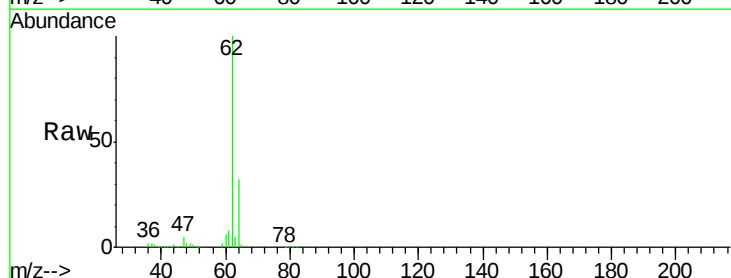
Acq: 27 Sep 2019 13:01

Tgt Ion: 62 Resp: 707274

Ion Ratio Lower Upper

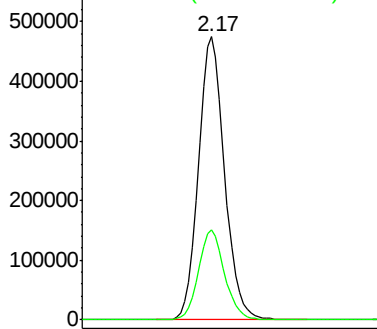
62 100

64 31.7 25.5 38.3

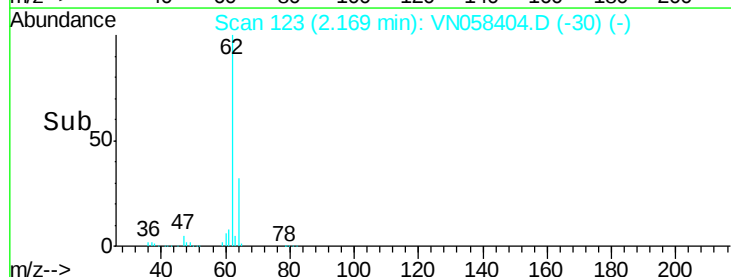


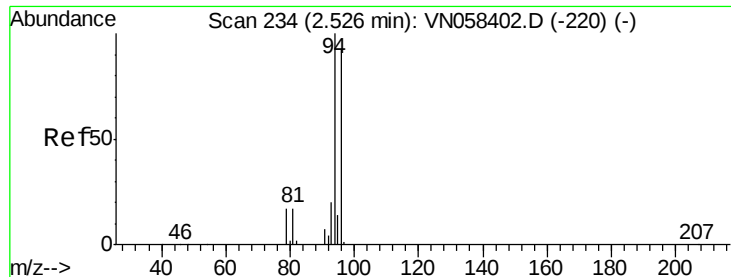
Abundance Ion 61.90 (61.60 to 62.60): VNO

Ion 63.90 (63.60 to 64.60): VNO



Time-->





#5

Bromomethane

Concen: 192.581 ug/l

RT: 2.53 min Scan# 234

Delta R.T. -0.00 min

Lab File: VN058404.D

Acq: 27 Sep 2019 13:01

Instrument :

MSVOA_N

ClientSampleId :

VSTDIC150

Tot Ion: 94 Resp: 388895

Ion Ratio Lower Upper

94 100

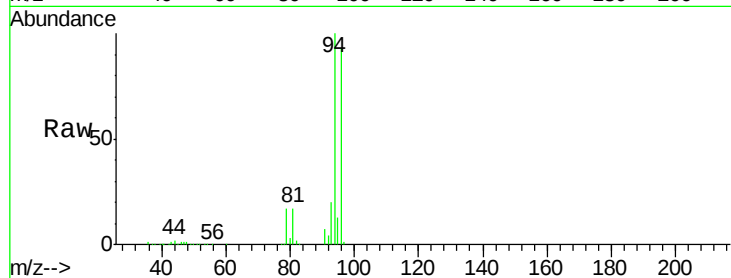
96 93.4 74.8 112.2

Manual Integrations

APPROVED

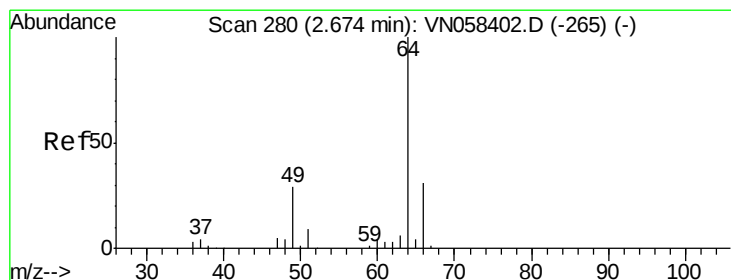
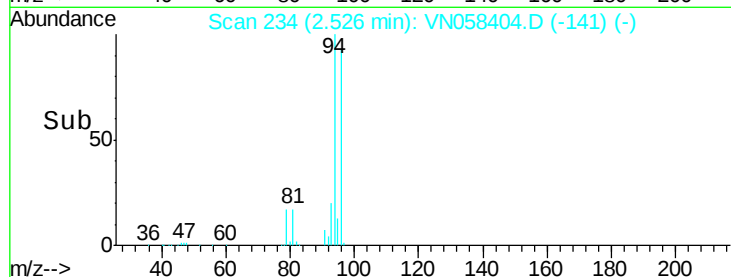
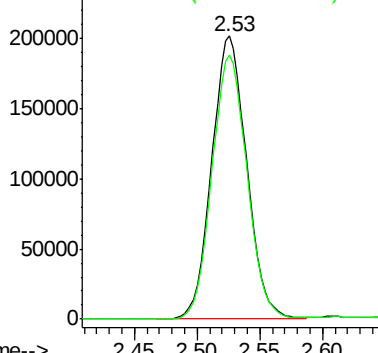
MMDadoda

9/30/2019 10:18:44 AM



Abundance Ion 93.90 (93.60 to 94.60): VNO

Ion 95.90 (95.60 to 96.60): VNO



#6

Chloroethane

Concen: 157.342 ug/l

RT: 2.67 min Scan# 280

Delta R.T. -0.00 min

Lab File: VN058404.D

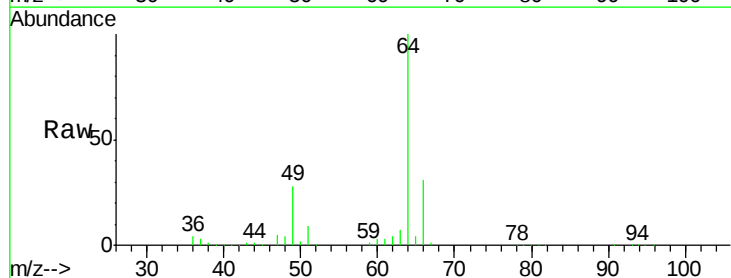
Acq: 27 Sep 2019 13:01

Tgt Ion: 64 Resp: 403187

Ion Ratio Lower Upper

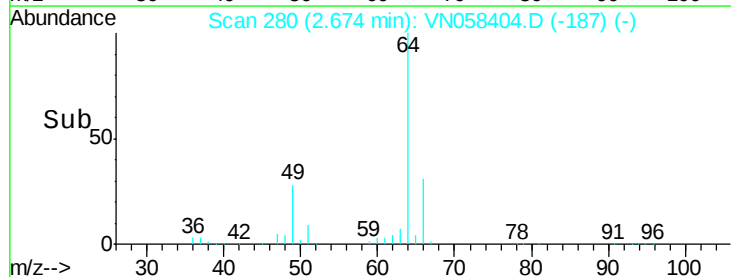
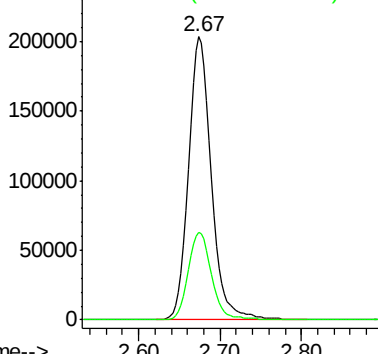
64 100

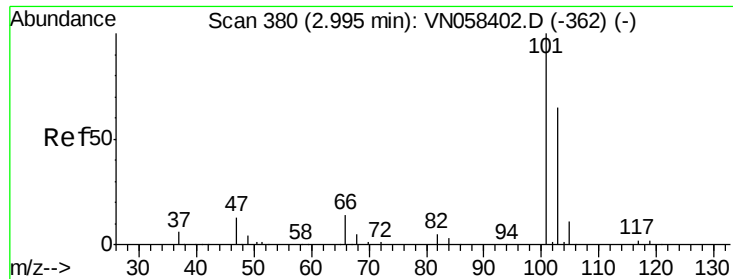
66 31.0 24.4 36.6



Abundance Ion 63.90 (63.60 to 64.60): VNO

Ion 65.90 (65.60 to 66.60): VNO





#7

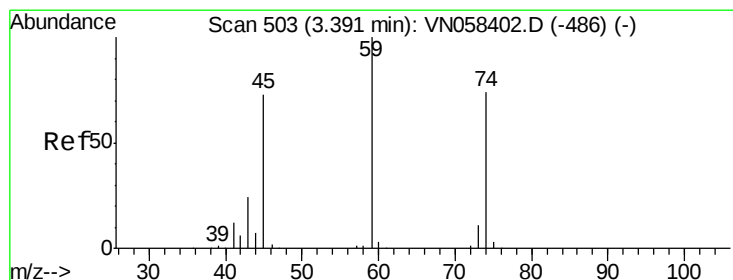
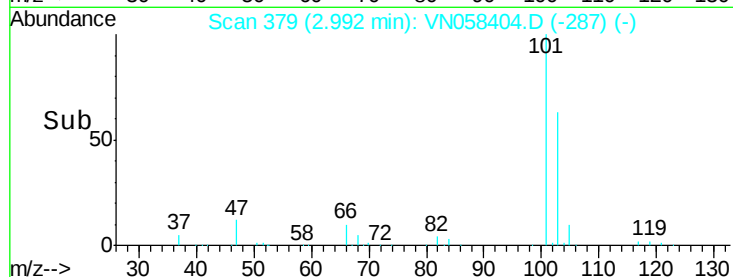
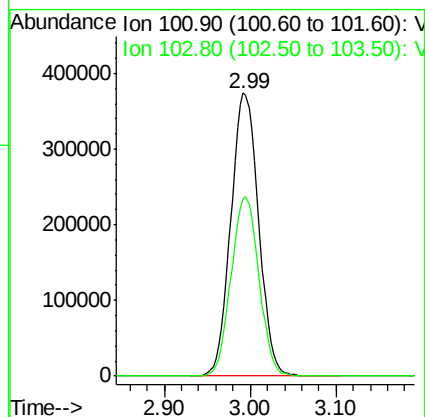
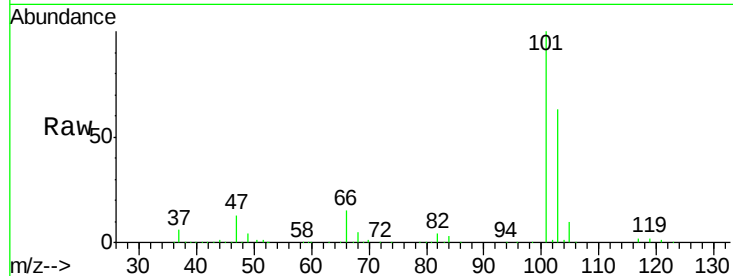
Trichlorofluoromethane
Concen: 155.417 ug/l
RT: 2.99 min Scan# 379
Delta R.T. -0.00 min
Lab File: VN058404.D
Acq: 27 Sep 2019 13:01

Instrument :
MSVOA_N
ClientSampleId :
VSTDIC150

Tot Ion	Ratio	Resp	Lower	Upper
101	100	838493		
103	62.8	52.3	78.5	

Manual Integrations
APPROVED

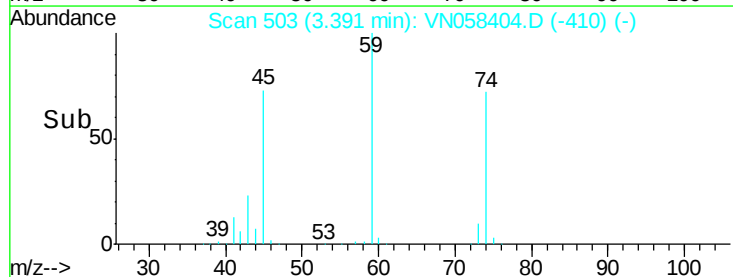
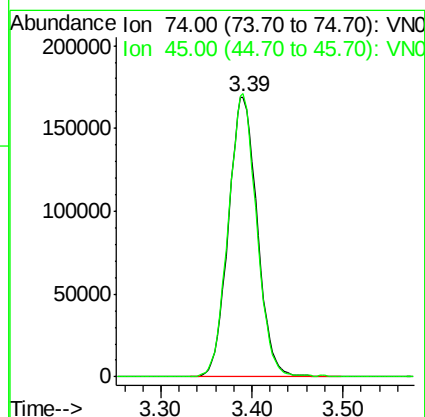
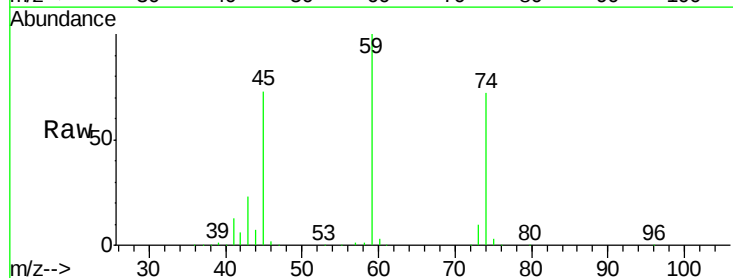
MMDadoda
9/30/2019 10:18:44 AM

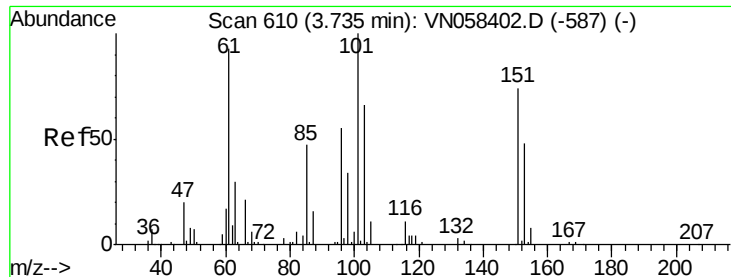


#8

Diethyl Ether
Concen: 153.136 ug/l
RT: 3.39 min Scan# 503
Delta R.T. -0.00 min
Lab File: VN058404.D
Acq: 27 Sep 2019 13:01

Tgt Ion	Ratio	Resp	Lower	Upper
74	100	371167		
45	98.7	50.5	151.6	





#9

1,1,2-Trichlorotrifluoroethane

Concen: 148.788 ug/l

RT: 3.74 min Scan# 611

Delta R.T. 0.00 min

Lab File: VN058404.D

Acq: 27 Sep 2019 13:01

Instrument :

MSVOA_N

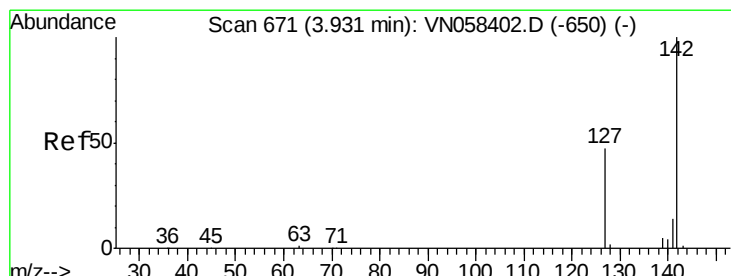
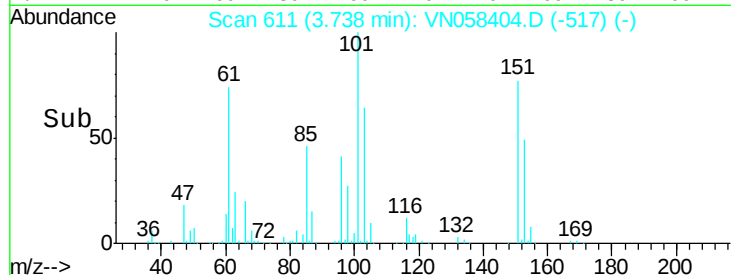
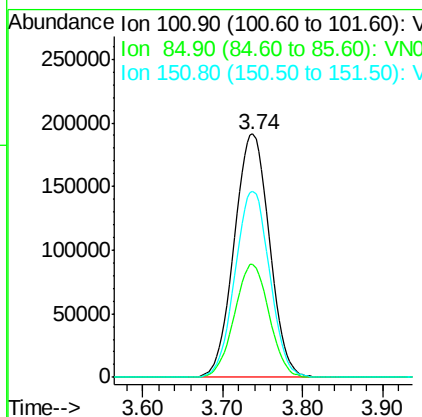
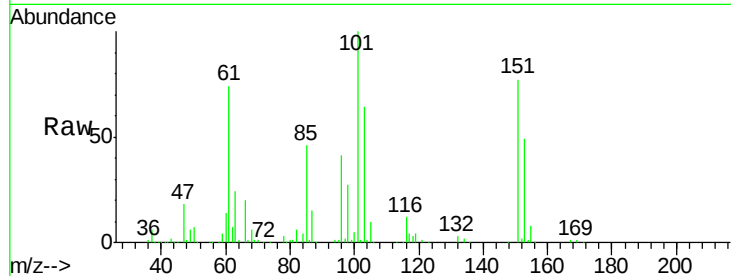
ClientSampled :

VSTDIC150

Tot Ion:	101	Resp:	570177
Ion Ratio	Lower	Upper	
101	100		
85	45.7	36.7	55.1
151	75.5	59.4	89.0

Manual Integrations
APPROVED

MMDadoda
9/30/2019 10:18:44 AM



#10

Methyl Iodide

Concen: 209.277 ug/l

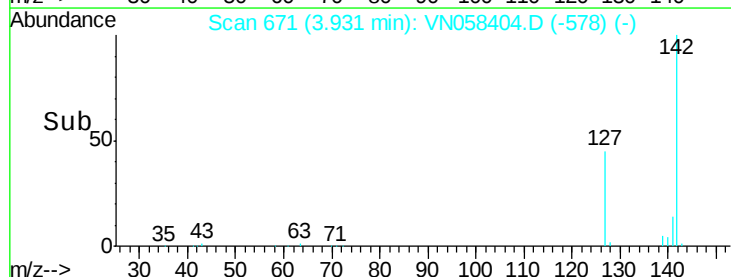
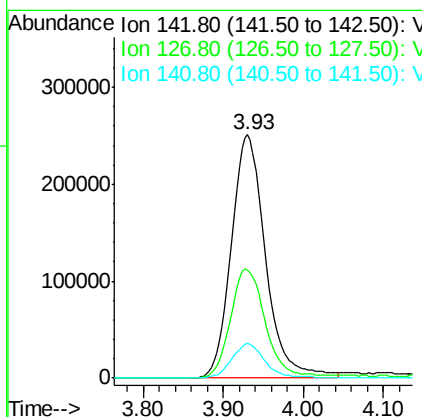
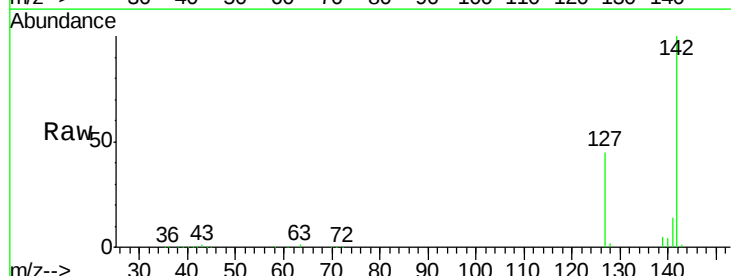
RT: 3.93 min Scan# 671

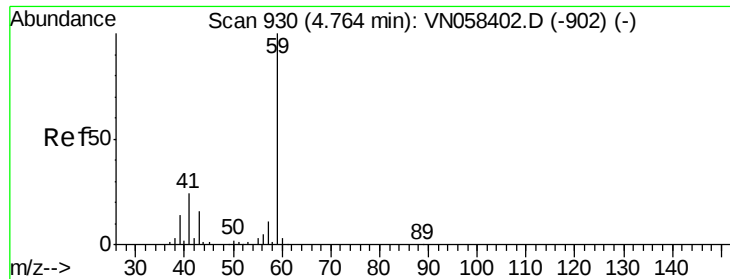
Delta R.T. -0.00 min

Lab File: VN058404.D

Acq: 27 Sep 2019 13:01

Tgt Ion:	142	Resp:	730439
Ion Ratio	Lower	Upper	
142	100		
127	46.0	37.2	55.8
141	13.9	11.3	16.9





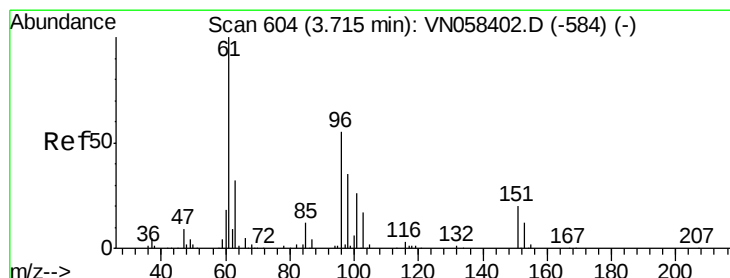
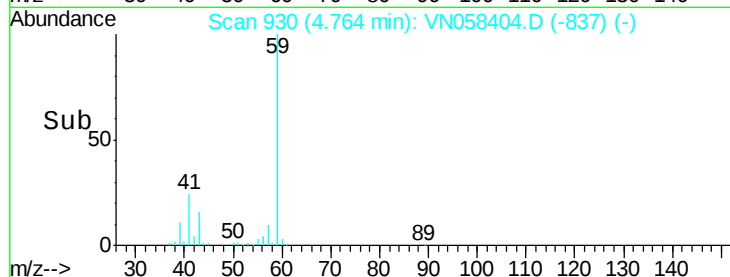
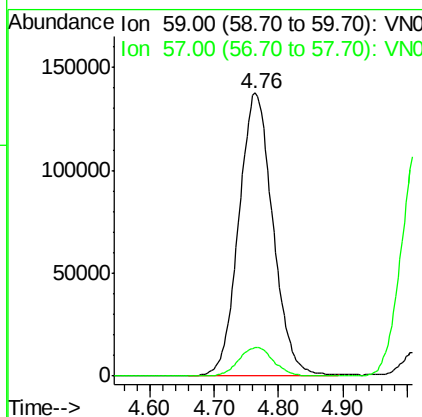
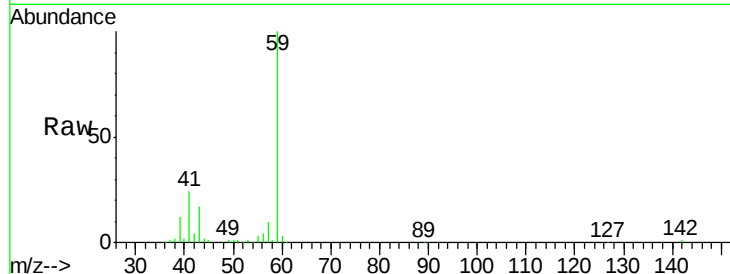
#11
Tert butyl alcohol
Concen: 679.324 ug/l
RT: 4.76 min Scan# 930
Delta R.T. -0.00 min
Lab File: VN058404.D
Acq: 27 Sep 2019 13:01

Instrument :
MSVOA_N
ClientSampleId :
VSTDIC150

Tot Ion	Ratio	Lower	Upper
59	100		
57	10.4	9.0	13.4

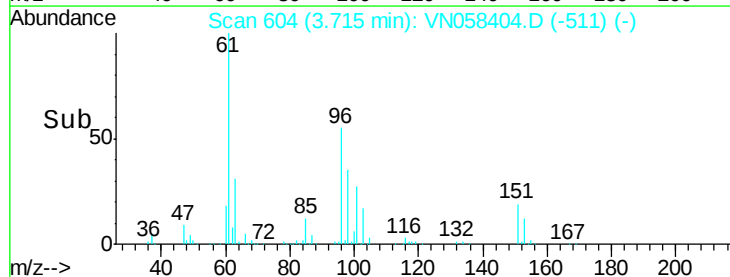
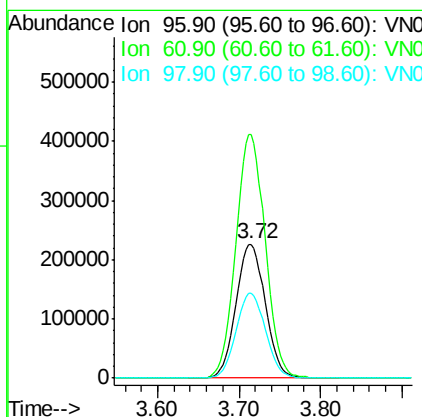
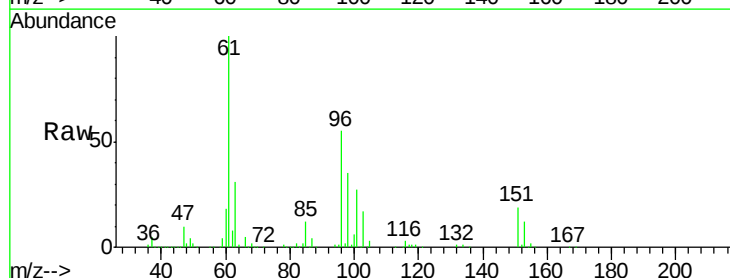
Manual Integrations
APPROVED

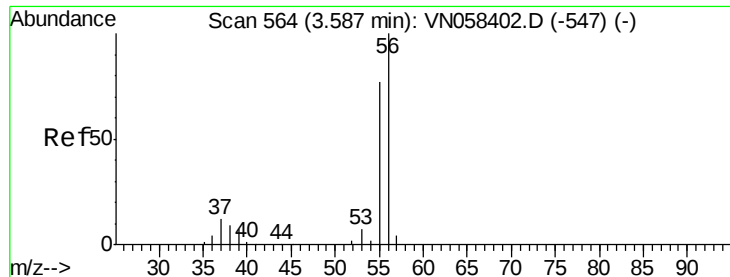
MMDadoda
9/30/2019 10:18:44 AM



#12
1,1-Dichloroethene
Concen: 167.723 ug/l
RT: 3.72 min Scan# 604
Delta R.T. -0.00 min
Lab File: VN058404.D
Acq: 27 Sep 2019 13:01

Tgt Ion	Ratio	Lower	Upper
96	100		
61	181.6	146.7	220.1
98	63.5	51.3	76.9





#13

Acrolein

Concen: 1292.006 ug/l

RT: 3.58 min Scan# 563

Delta R.T. -0.00 min

Lab File: VN058404.D

Acq: 27 Sep 2019 13:01

Instrument :

MSVOA_N

ClientSampleId :

VSTDIC150

Tot Ion: 56 Resp: 169031

Ion Ratio Lower Upper

56 100

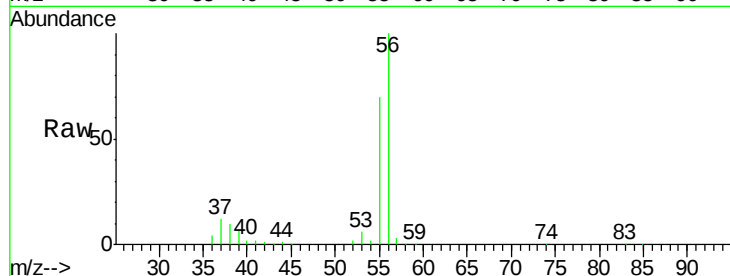
55 70.6 58.3 87.5

Manual Integrations

APPROVED

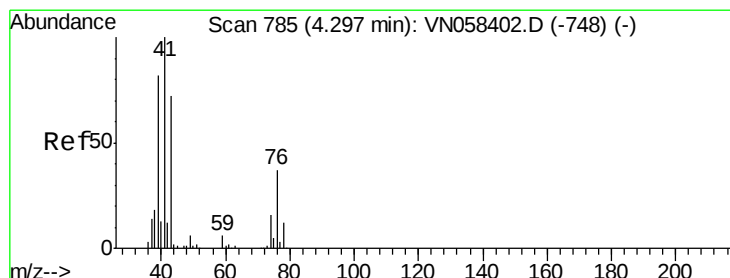
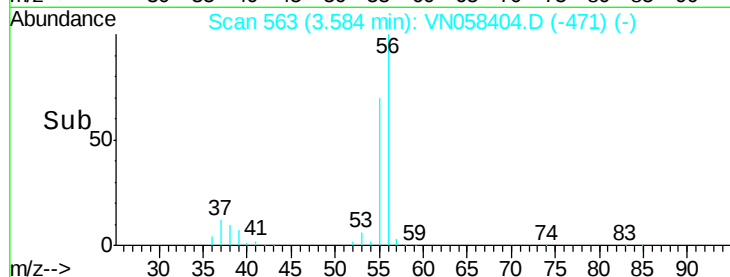
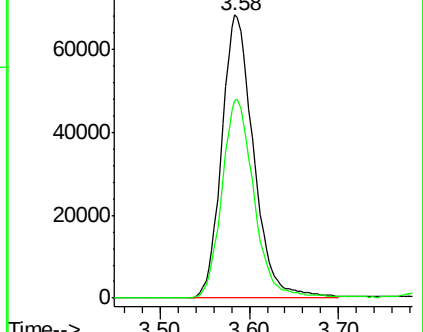
MMDadoda

9/30/2019 10:18:44 AM



Abundance Ion 56.00 (55.70 to 56.70): VNO

Ion 55.00 (54.70 to 55.70): VNO



#14

Allyl chloride

Concen: 168.224 ug/l

RT: 4.30 min Scan# 785

Delta R.T. -0.00 min

Lab File: VN058404.D

Acq: 27 Sep 2019 13:01

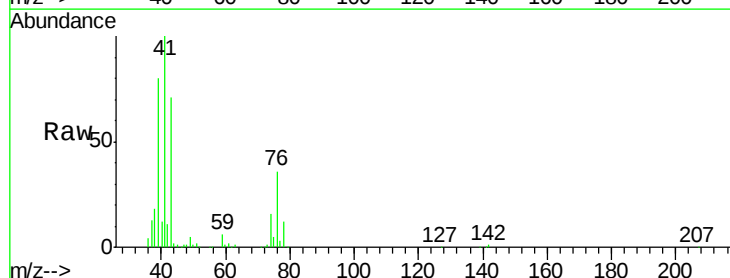
Tgt Ion: 41 Resp: 1068771

Ion Ratio Lower Upper

41 100

39 75.7 62.3 93.5

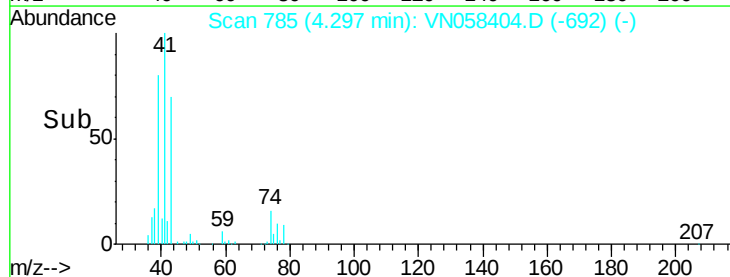
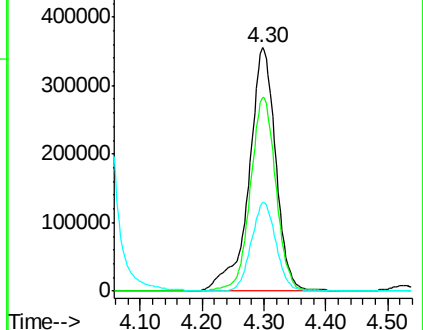
76 33.0 26.9 40.3

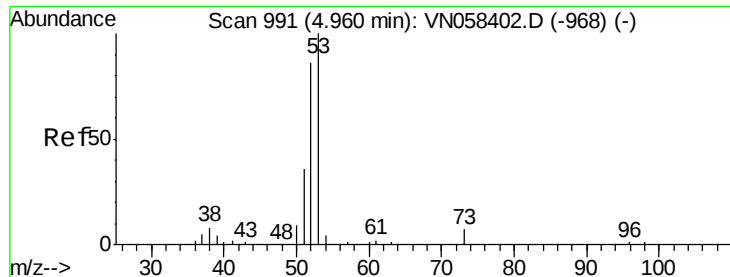


Abundance Ion 41.00 (40.70 to 41.70): VNO

Ion 39.00 (38.70 to 39.70): VNO

Ion 75.90 (75.60 to 76.60): VNO





#15

Acrylonitrile

Concen: 718.327 ug/l

RT: 4.96 min Scan# 991

Delta R.T. -0.00 min

Lab File: VN058404.D

Acq: 27 Sep 2019 13:01

Instrument :

MSVOA_N

ClientSampled :

VSTDIC150

Tot Ion: 53 Resp: 1454889

Ion Ratio Lower Upper

53 100

52 83.3 66.6 100.0

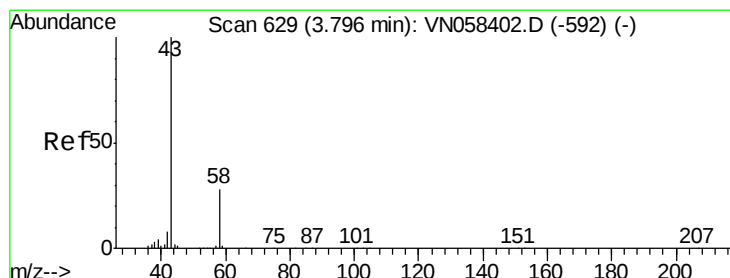
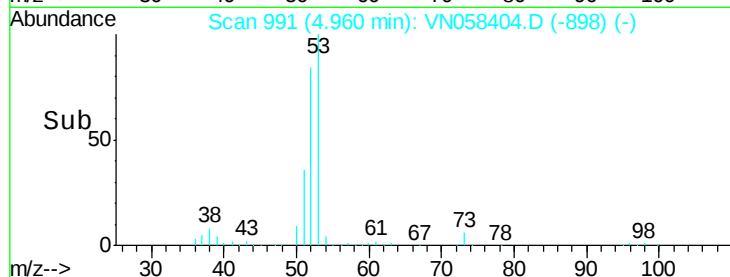
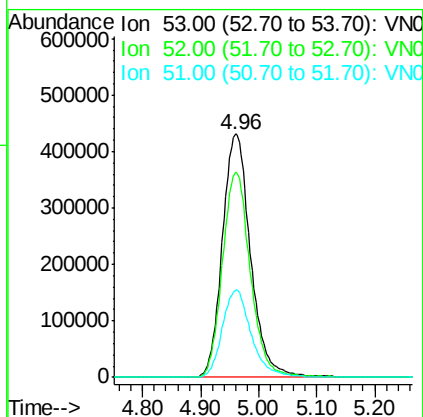
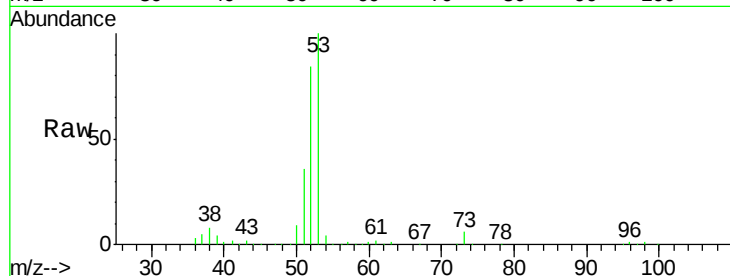
51 36.9 29.8 44.8

Manual Integrations

APPROVED

MMDadoda

9/30/2019 10:18:44 AM



#16

Acetone

Concen: 636.015 ug/l

RT: 3.80 min Scan# 629

Delta R.T. -0.00 min

Lab File: VN058404.D

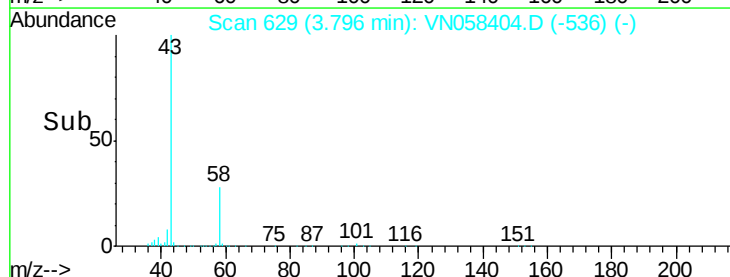
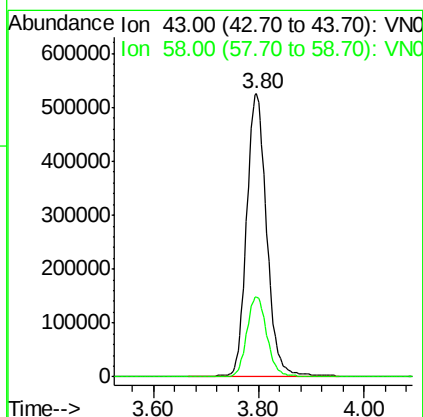
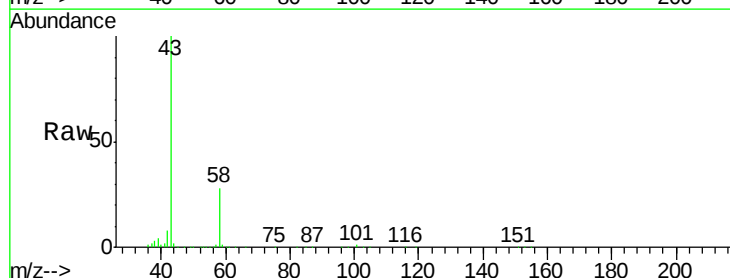
Acq: 27 Sep 2019 13:01

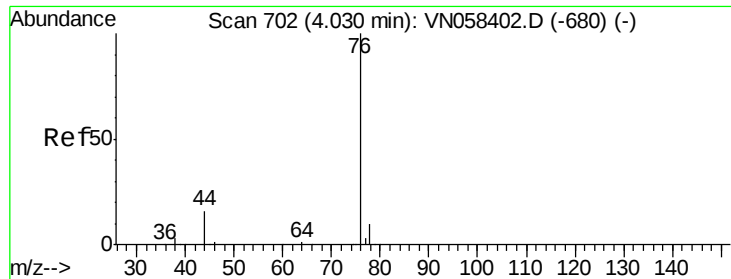
Tgt Ion: 43 Resp: 1389638

Ion Ratio Lower Upper

43 100

58 28.3 22.4 33.6





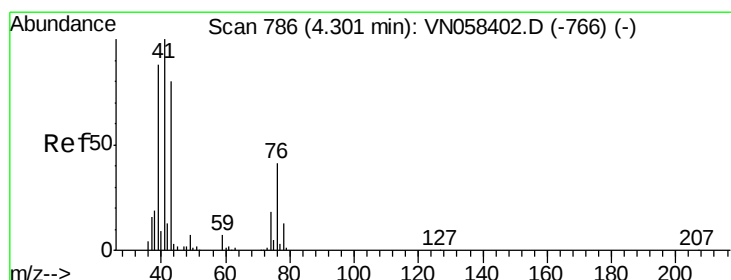
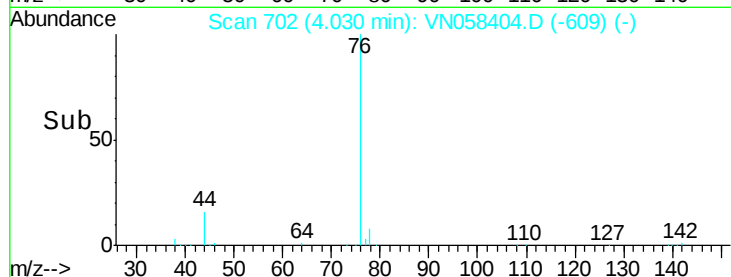
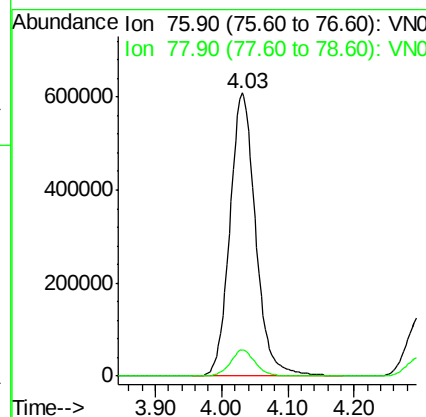
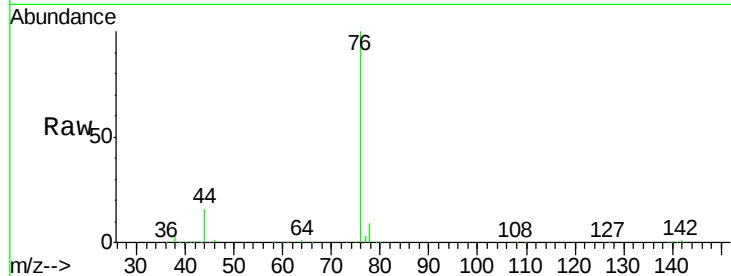
#17
Carbon Disulfide
Concen: 270.246 ug/l
RT: 4.03 min Scan# 702
Delta R.T. -0.00 min
Lab File: VN058404.D
Acq: 27 Sep 2019 13:01

Instrument :
MSVOA_N
ClientSampleId :
VSTDIC150

Tot Ion: 76 Resp: 1641712
Ion Ratio Lower Upper
76 100
78 9.2 7.7 11.5

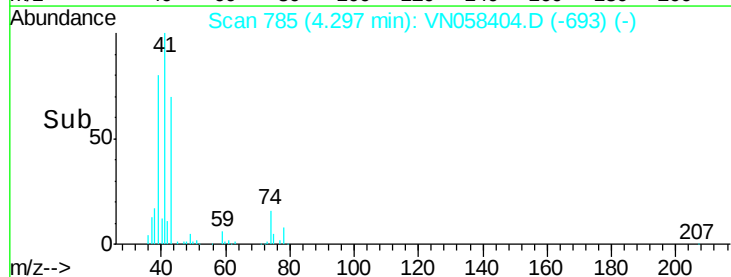
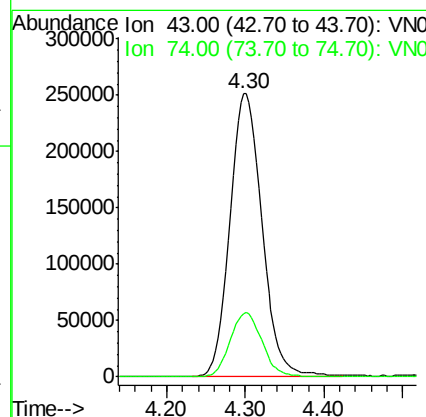
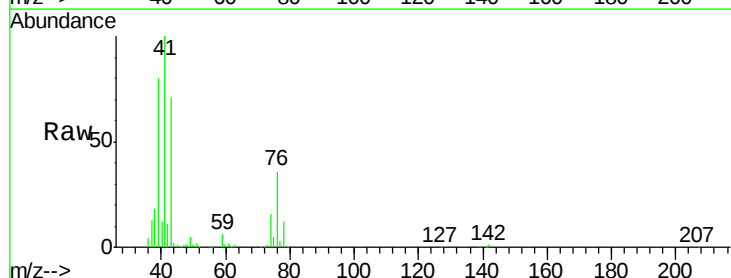
Manual Integrations
APPROVED

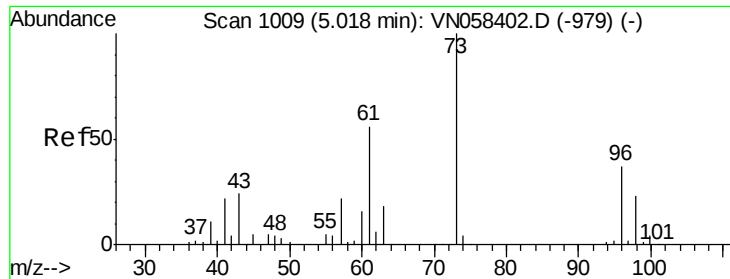
MMDadoda
9/30/2019 10:18:44 AM



#18
Methyl Acetate
Concen: 125.540 ug/l
RT: 4.30 min Scan# 785
Delta R.T. -0.00 min
Lab File: VN058404.D
Acq: 27 Sep 2019 13:01

Tgt Ion: 43 Resp: 709075
Ion Ratio Lower Upper
43 100
74 22.8 18.0 27.0





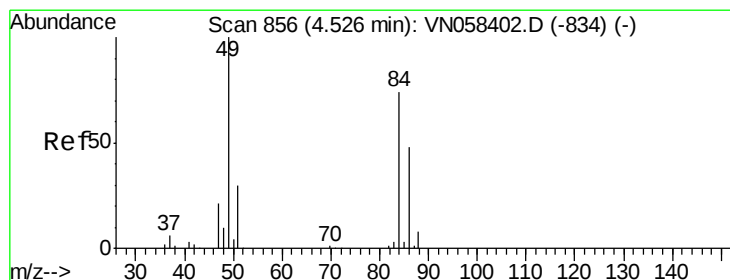
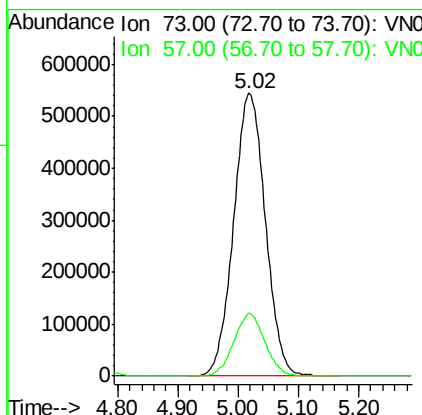
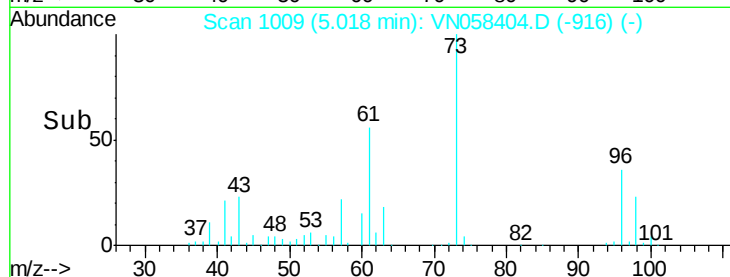
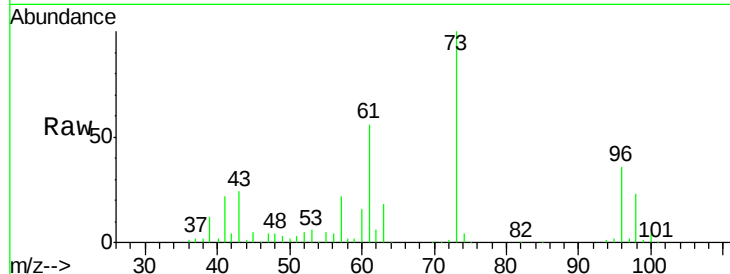
#19
Methvl tert-butvl Ether
Concen: 142.466 ug/l
RT: 5.02 min Scan# 1009
Delta R.T. -0.00 min
Lab File: VN058404.D
Acq: 27 Sep 2019 13:01

Instrument :
MSVOA_N
ClientSampleId :
VSTDIC150

Tot Ion: 73 Resp: 2006455
Ion Ratio Lower Upper
73 100
57 22.2 17.6 26.4

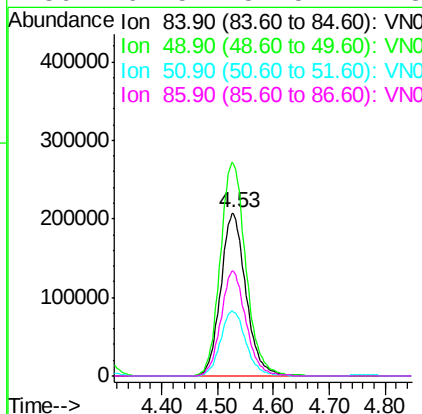
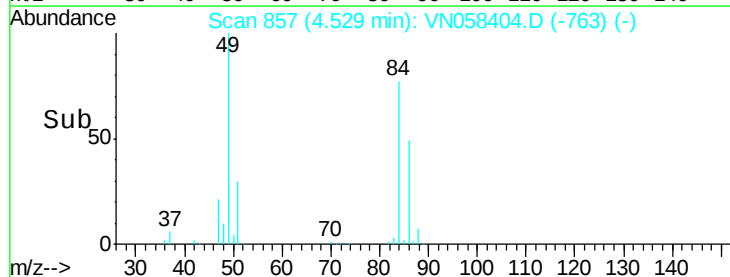
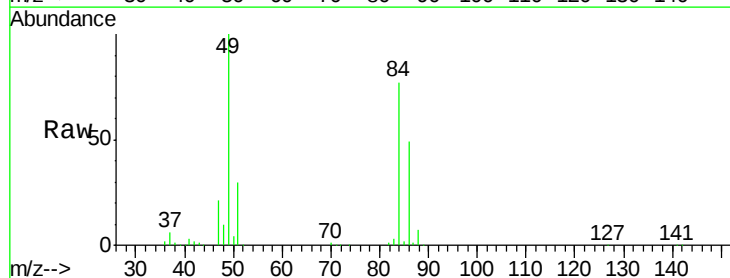
Manual Integrations
APPROVED

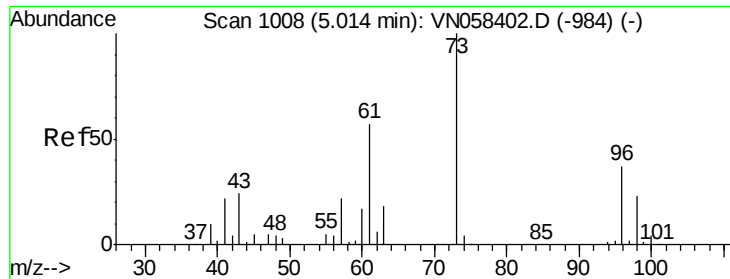
MMDadoda
9/30/2019 10:18:44 AM



#20
Methylene Chloride
Concen: 148.728 ug/l
RT: 4.53 min Scan# 857
Delta R.T. 0.00 min
Lab File: VN058404.D
Acq: 27 Sep 2019 13:01

Tgt Ion: 84 Resp: 650773
Ion Ratio Lower Upper
84 100
49 130.4 107.9 161.9
51 39.7 32.8 49.2
86 64.5 51.5 77.3





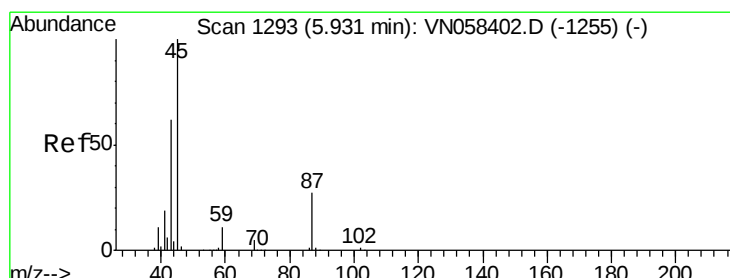
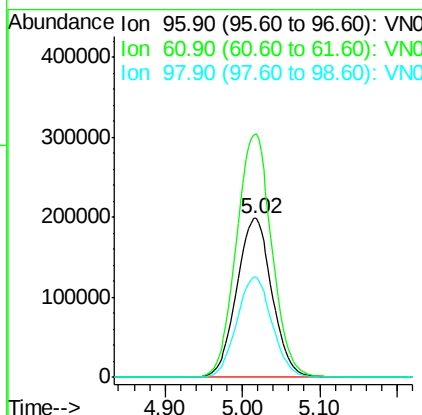
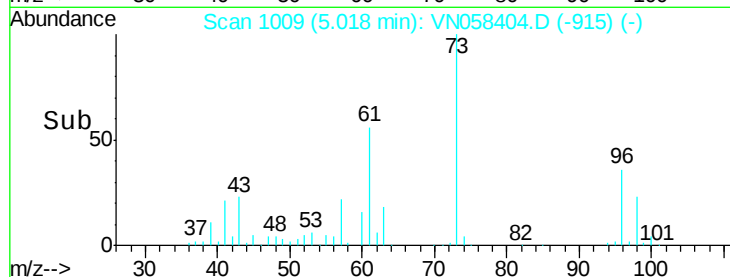
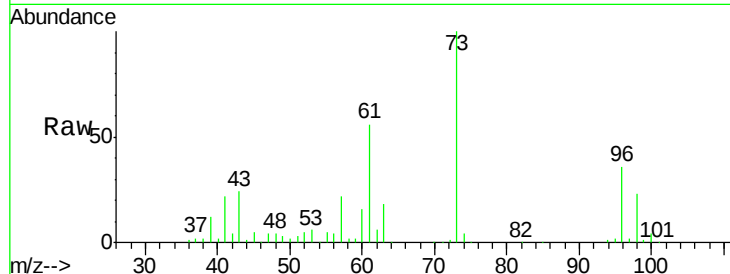
#21
trans-1,2-Dichloroethene
Concen: 173.113 ug/l
RT: 5.02 min Scan# 1009
Delta R.T. 0.00 min
Lab File: VN058404.D
Acq: 27 Sep 2019 13:01

Instrument :
MSVOA_N
ClientSampleId :
VSTDIC150

Tot Ion	Ratio	Lower	Upper
96	100		
61	153.2	121.9	182.9
98	62.9	49.3	73.9

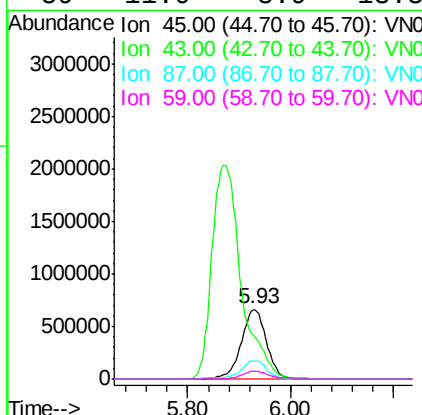
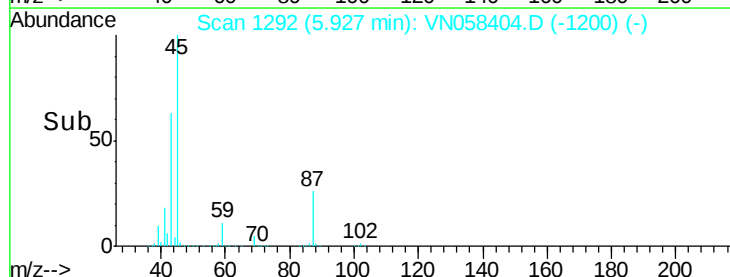
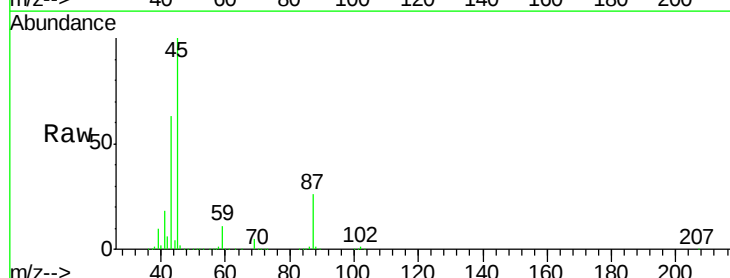
Manual Integrations
APPROVED

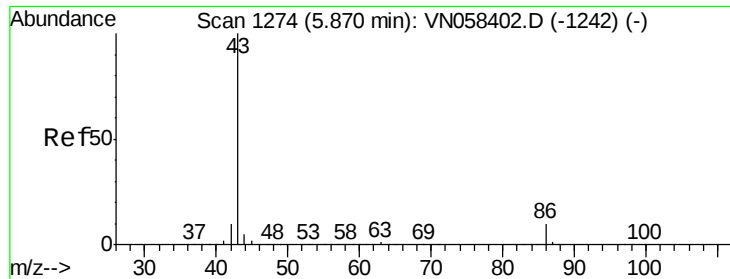
MMDadoda
9/30/2019 10:18:44 AM



#22
Diisopropyl ether
Concen: 144.930 ug/l
RT: 5.93 min Scan# 1292
Delta R.T. -0.00 min
Lab File: VN058404.D
Acq: 27 Sep 2019 13:01

Tgt Ion	Ratio	Lower	Upper
45	100		
43	63.1	49.7	74.5
87	26.4	21.5	32.3
59	11.0	8.9	13.3





#23

Vinyl Acetate

Concen: 736.162 ug/l

RT: 5.87 min Scan# 1274

Delta R.T. -0.00 min

Lab File: VN058404.D

Acq: 27 Sep 2019 13:01

Instrument :

MSVOA_N

ClientSampleId :

VSTDIC150

Tot Ion: 43 Resp: 8020974

Ion Ratio Lower Upper

43 100

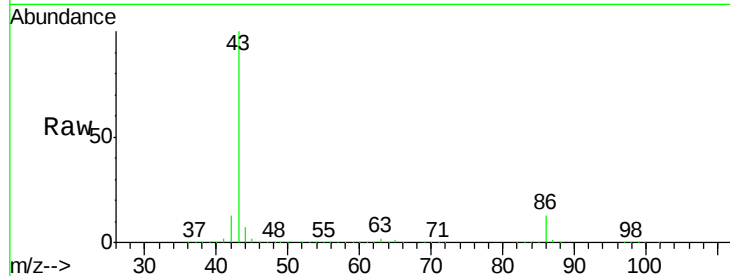
86 13.3 7.7 11.5#

Manual Integrations

APPROVED

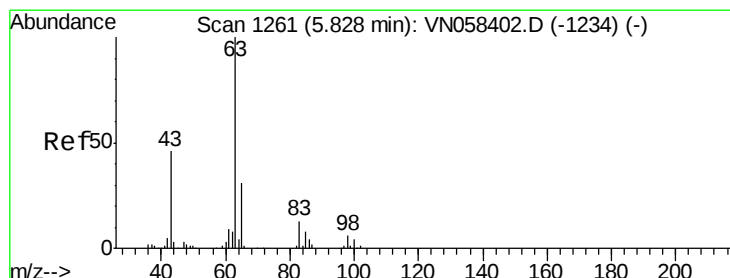
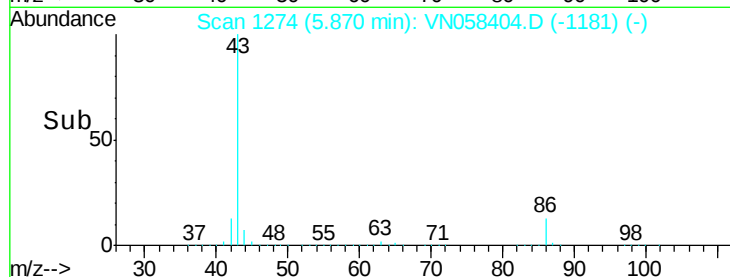
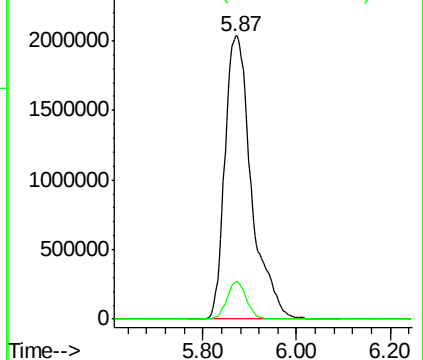
MMDadoda

9/30/2019 10:18:44 AM



Abundance Ion 43.00 (42.70 to 43.70): VNO

Ion 86.00 (85.70 to 86.70): VNO



#24

1,1-Dichloroethane

Concen: 148.817 ug/l

RT: 5.83 min Scan# 1261

Delta R.T. -0.00 min

Lab File: VN058404.D

Acq: 27 Sep 2019 13:01

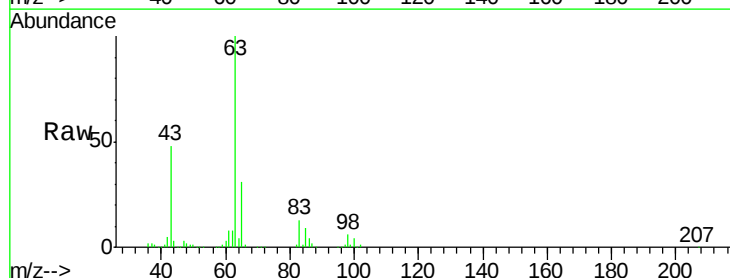
Tgt Ion: 63 Resp: 1251241

Ion Ratio Lower Upper

63 100

98 5.7 3.0 9.0

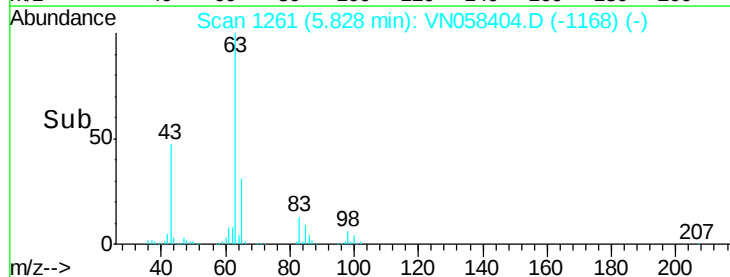
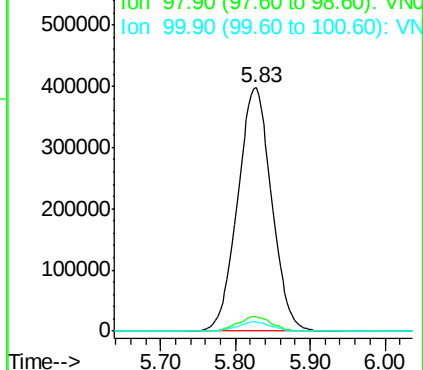
100 3.7 2.0 5.8

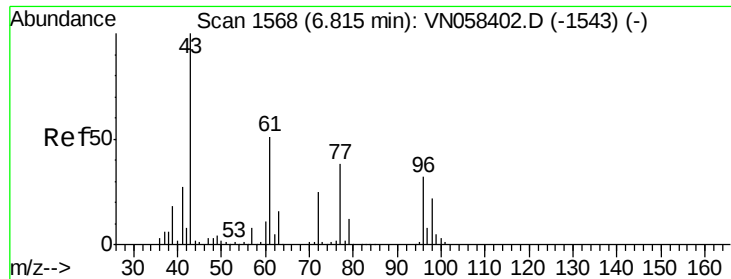


Abundance Ion 62.90 (62.60 to 63.60): VNO

Ion 97.90 (97.60 to 98.60): VNO

Ion 99.90 (99.60 to 100.60): VNO





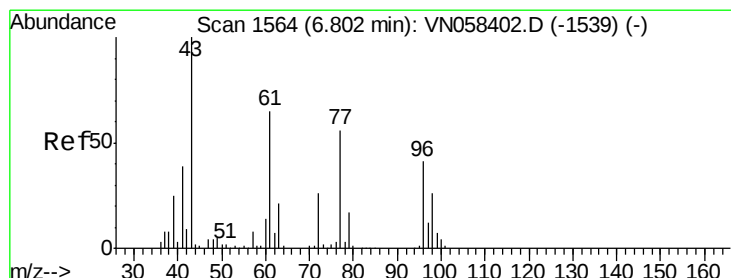
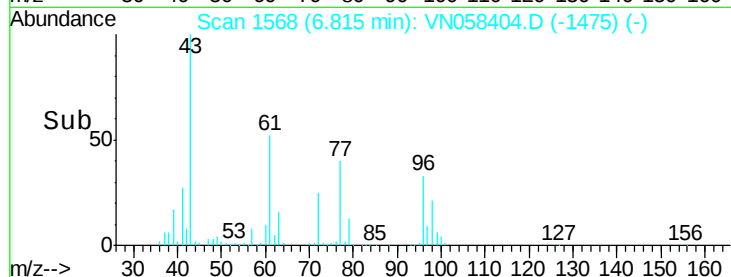
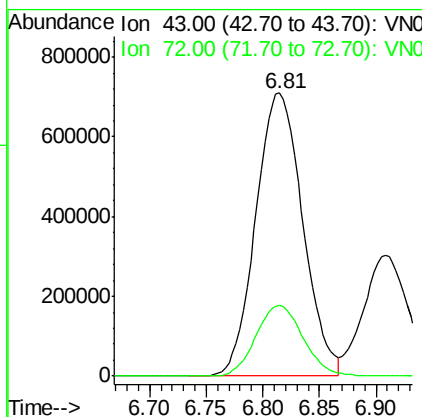
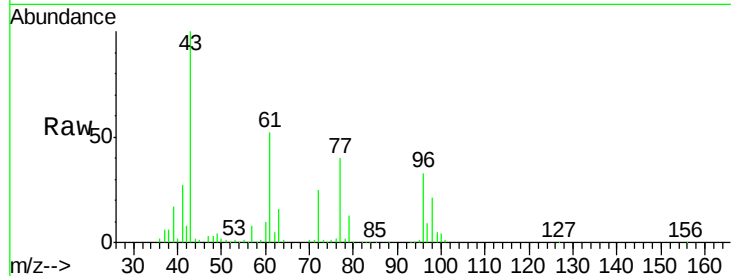
#25
2-Butanone
Concen: 691.631 ug/l
RT: 6.81 min Scan# 1568
Delta R.T. -0.00 min
Lab File: VN058404.D
Acq: 27 Sep 2019 13:01

Instrument :
MSVOA_N
ClientSampleId :
VSTDIC150

Tot Ion: 43 Resp: 2042027
Ion Ratio Lower Upper
43 100
72 24.9 20.2 30.4

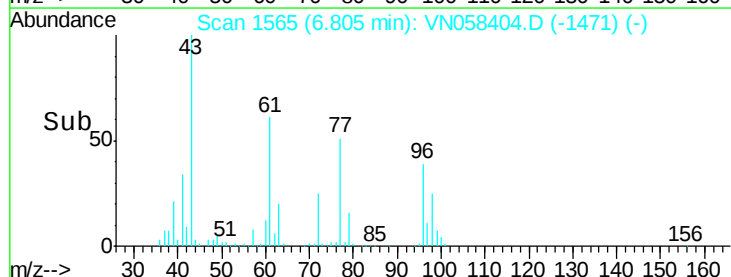
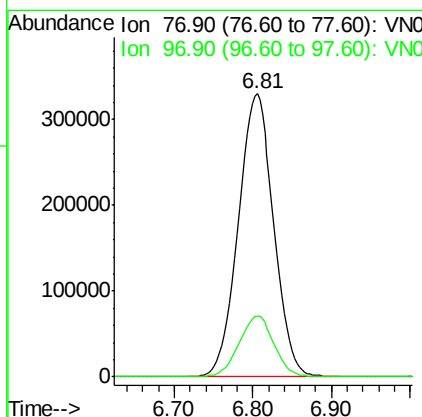
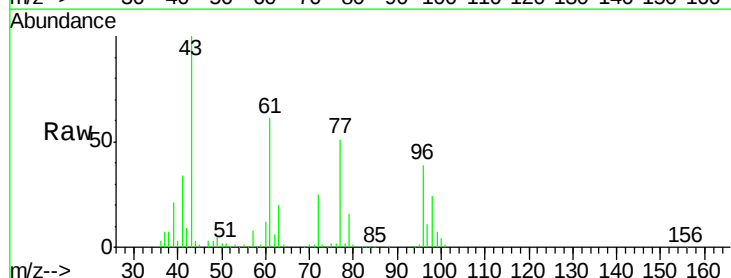
Manual Integrations
APPROVED

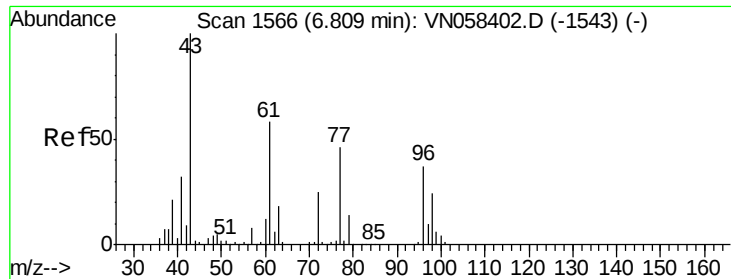
MMDadoda
9/30/2019 10:18:44 AM



#26
2,2-Dichloropropane
Concen: 146.361 ug/l
RT: 6.81 min Scan# 1565
Delta R.T. 0.00 min
Lab File: VN058404.D
Acq: 27 Sep 2019 13:01

Tgt Ion: 77 Resp: 1040883
Ion Ratio Lower Upper
77 100
97 21.3 10.9 32.6





#27

cis-1,2-Dichloroethene

Concen: 152.475 ug/l

RT: 6.81 min Scan# 1566

Delta R.T. -0.00 min

Lab File: VN058404.D

Acq: 27 Sep 2019 13:01

Instrument :

MSVOA_N

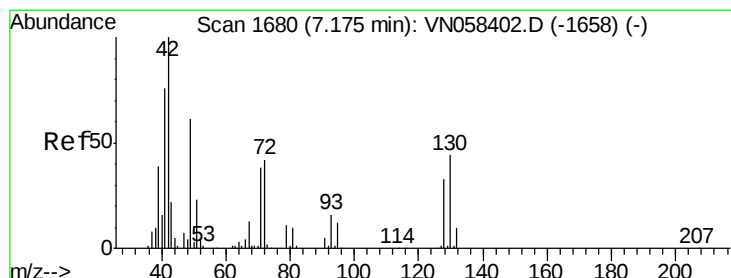
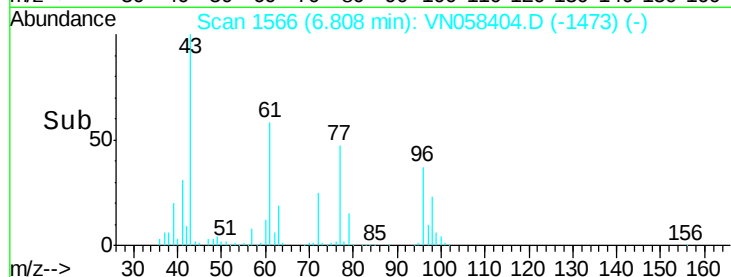
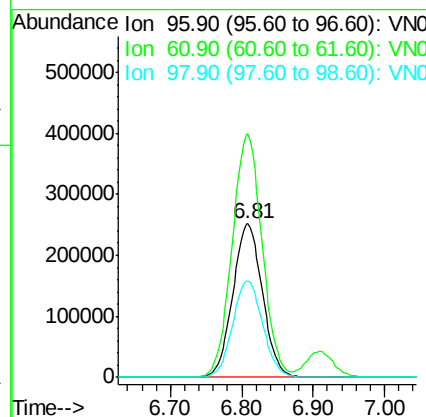
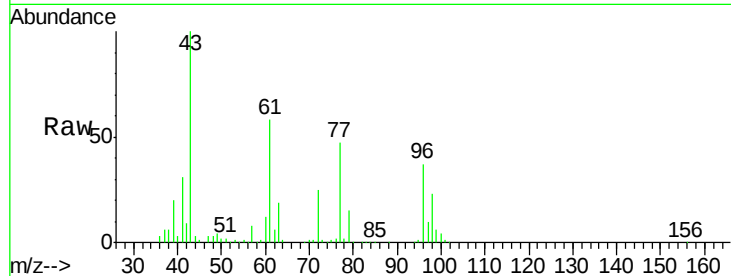
ClientSampleId :

VSTDIC150

Tot Ion:	96	Resp:	729323
Ion	Ratio	Lower	Upper
96	100		
61	159.7	0.0	318.8
98	63.9	0.0	129.8

Manual Integrations
APPROVED

MMDadoda
9/30/2019 10:18:44 AM



#28

Bromochloromethane

Concen: 146.801 ug/l

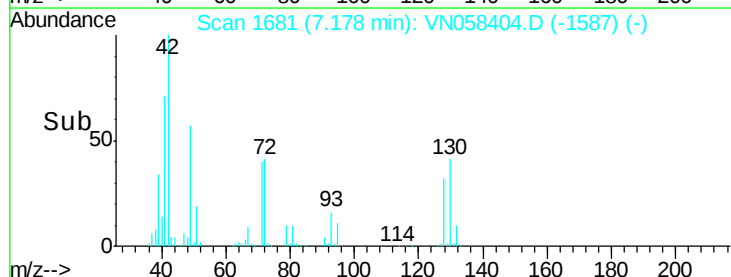
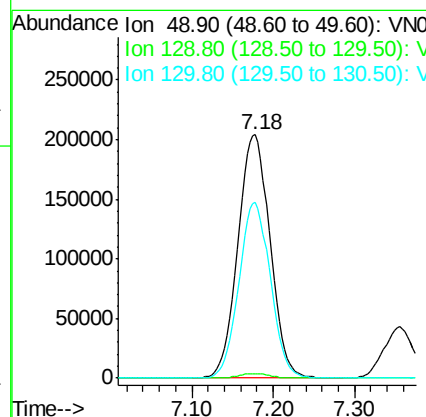
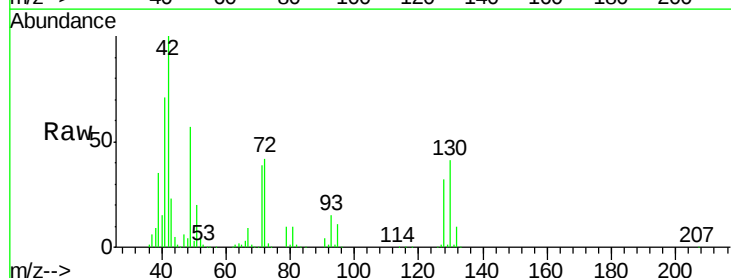
RT: 7.18 min Scan# 1681

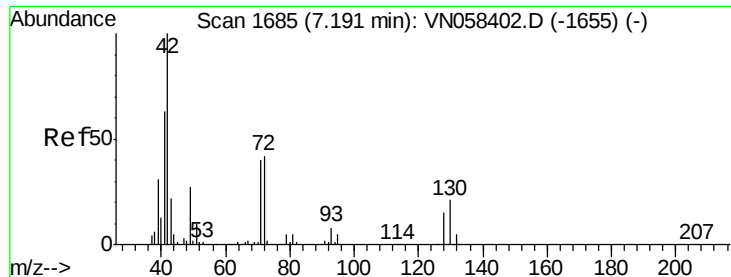
Delta R.T. 0.00 min

Lab File: VN058404.D

Acq: 27 Sep 2019 13:01

Tgt Ion:	49	Resp:	560330
Ion	Ratio	Lower	Upper
49	100		
129	0.9	0.0	3.4
130	70.5	56.3	84.5





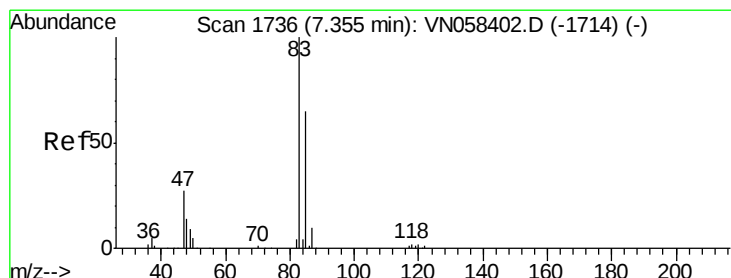
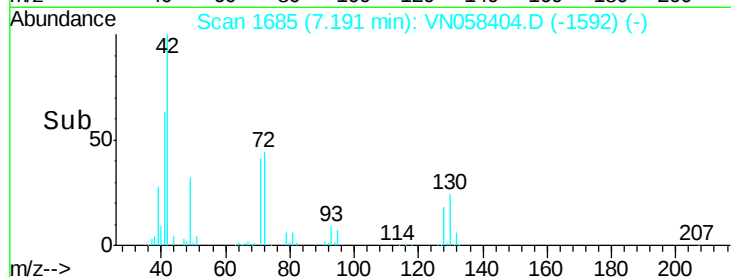
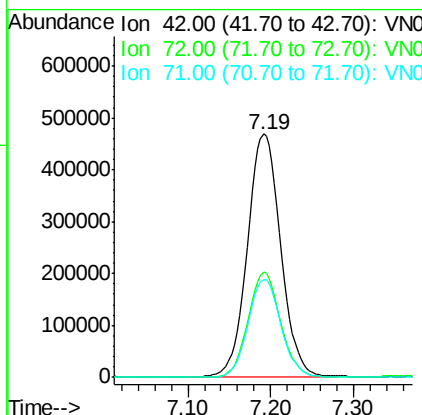
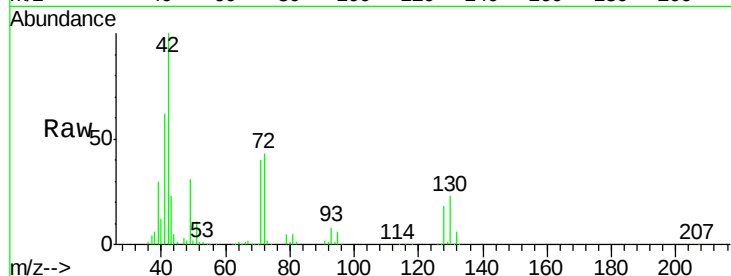
#29
Tetrahydrofuran
Concen: 711.540 ug/l
RT: 7.19 min Scan# 1685
Delta R.T. -0.00 min
Lab File: VN058404.D
Acq: 27 Sep 2019 13:01

Instrument :
MSVOA_N
ClientSampleId :
VSTDIC150

Tot Ion: 42 Resp: 1307498
Ion Ratio Lower Upper
42 100
72 42.1 33.7 50.5
71 39.7 31.8 47.6

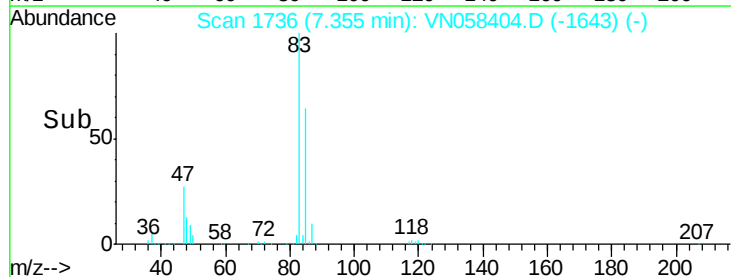
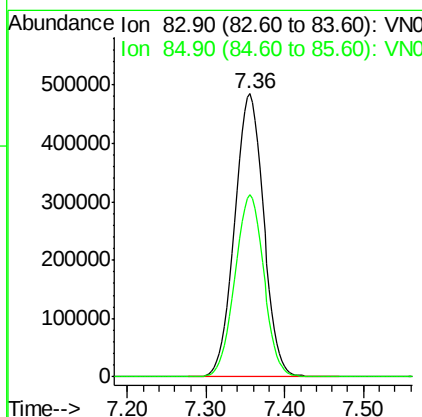
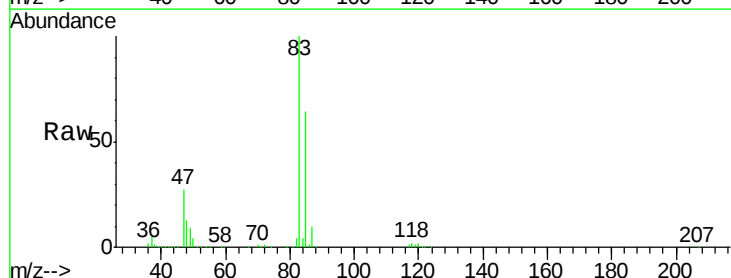
Manual Integrations
APPROVED

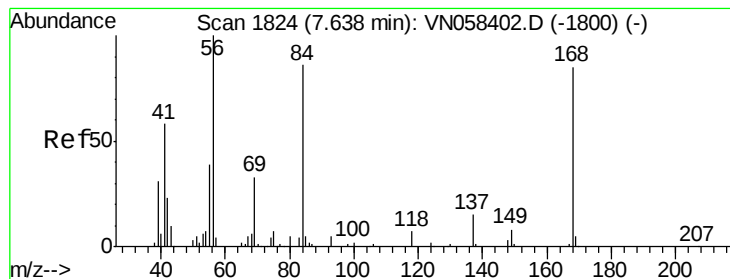
MMDadoda
9/30/2019 10:18:44 AM



#30
Chloroform
Concen: 139.984 ug/l
RT: 7.36 min Scan# 1736
Delta R.T. -0.00 min
Lab File: VN058404.D
Acq: 27 Sep 2019 13:01

Tgt Ion: 83 Resp: 1251099
Ion Ratio Lower Upper
83 100
85 64.2 52.0 78.0





#31

Cyclohexane

Concen: 169.906 ug/l

RT: 7.64 min Scan# 1824

Delta R.T. -0.00 min

Lab File: VN058404.D

Acq: 27 Sep 2019 13:01

Instrument :

MSVOA_N

ClientSampleId :

VSTDIC150

Tot Ion: 56 Resp: 1145926

Ion Ratio Lower Upper

56 100

69 31.4 26.2 39.4

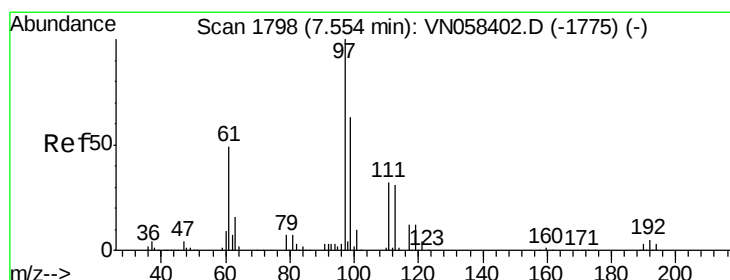
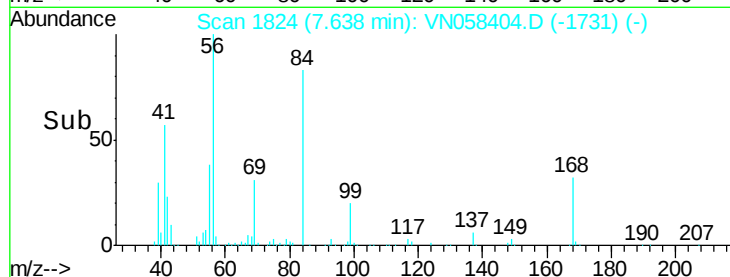
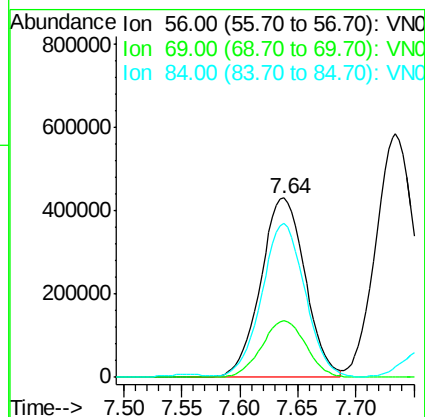
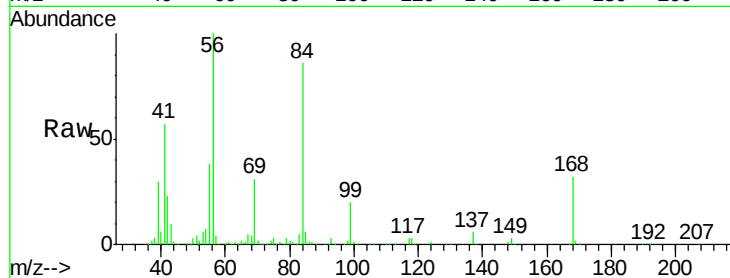
84 84.2 67.6 101.4

Manual Integrations

APPROVED

MMDadoda

9/30/2019 10:18:44 AM



#32

1,1,1-Trichloroethane

Concen: 156.578 ug/l

RT: 7.55 min Scan# 1798

Delta R.T. -0.00 min

Lab File: VN058404.D

Acq: 27 Sep 2019 13:01

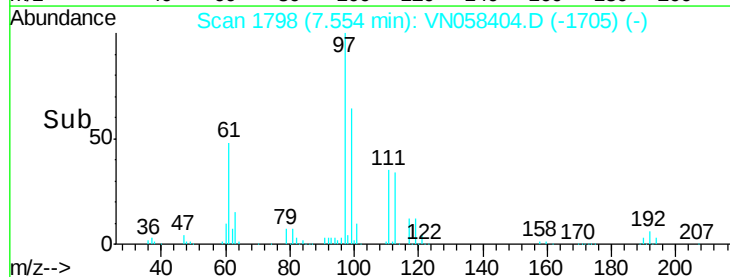
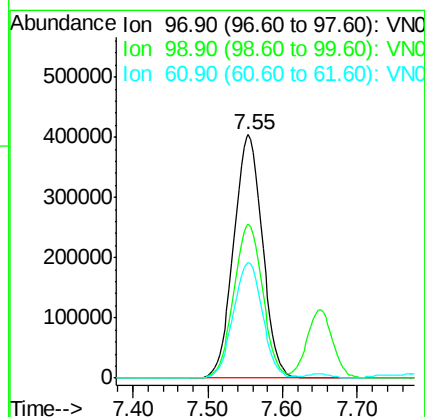
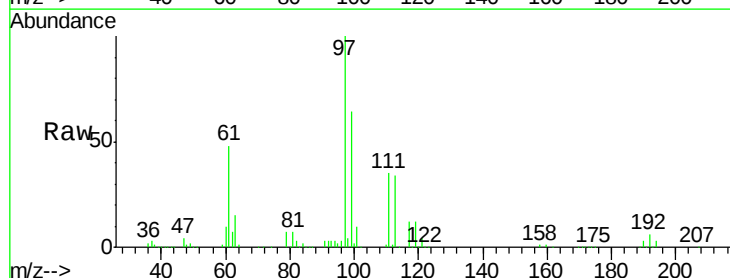
Tgt Ion: 97 Resp: 1079090

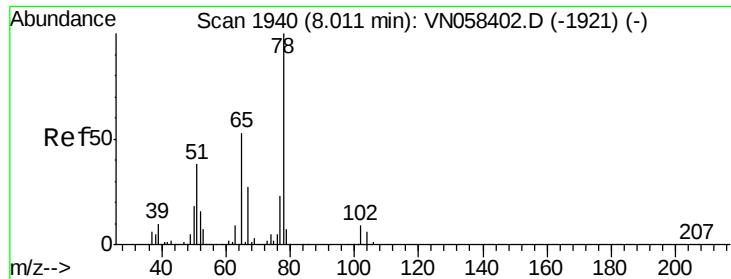
Ion Ratio Lower Upper

97 100

99 63.7 51.1 76.7

61 48.1 39.2 58.8





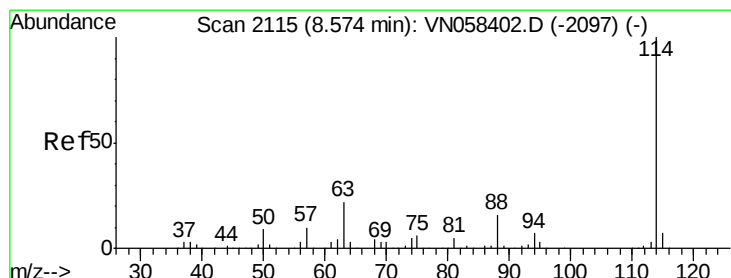
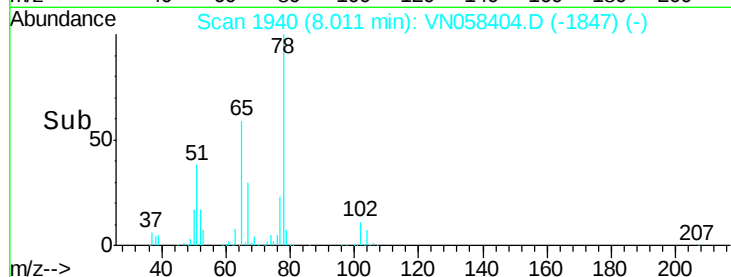
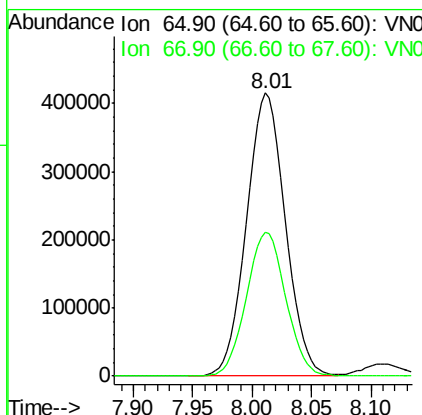
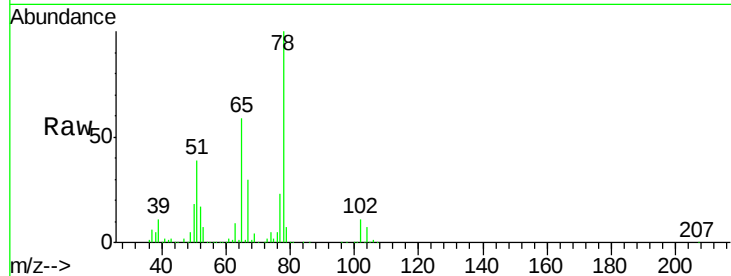
#33
 1,2-Dichloroethane-d4
 Concen: 148.226 ug/l
 RT: 8.01 min Scan# 1940
 Delta R.T. -0.00 min
 Lab File: VN058404.D
 Acq: 27 Sep 2019 13:01

Instrument :
 MSVOA_N
 ClientSampleId :
 VSTDIC150

Tot Ion	Ratio	Resp	Lower	Upper
65	100	940537		
67	51.6	0.0	102.4	

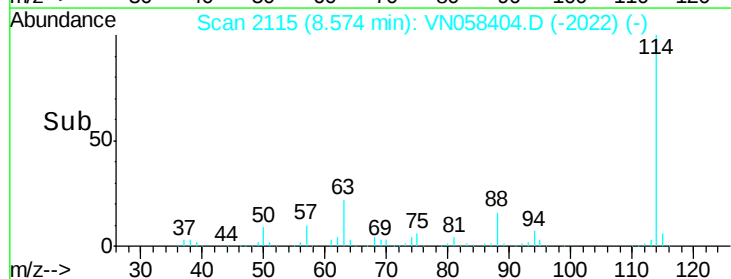
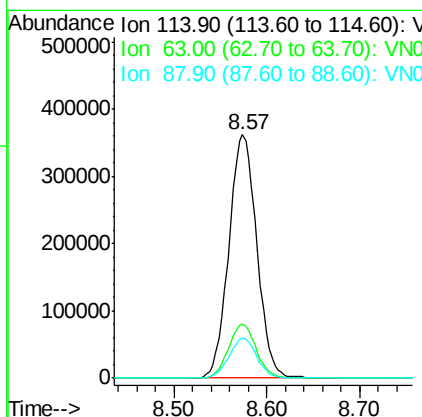
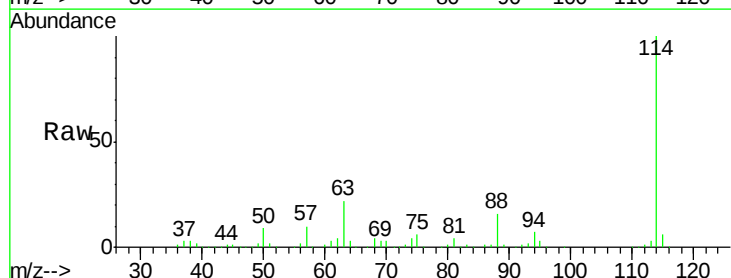
Manual Integrations
 APPROVED

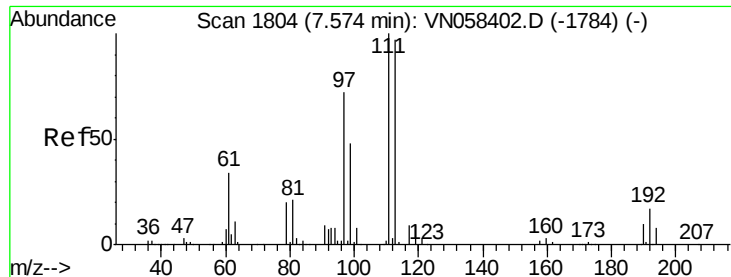
MMDadoda
 9/30/2019 10:18:44 AM



#34
 1,4-Difluorobenzene
 Concen: 50.000 ug/l
 RT: 8.57 min Scan# 2115
 Delta R.T. -0.00 min
 Lab File: VN058404.D
 Acq: 27 Sep 2019 13:01

Tgt Ion	Ratio	Resp	Lower	Upper
114	100	755642		
63	22.0	0.0	45.0	
88	16.4	0.0	32.2	





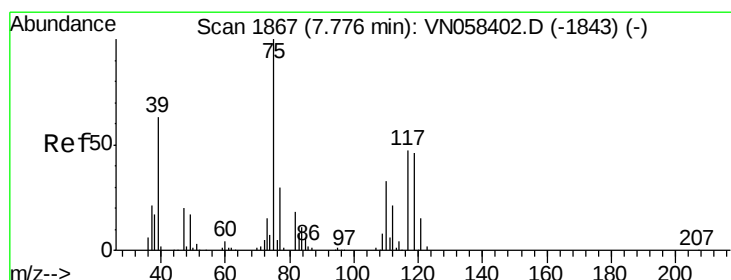
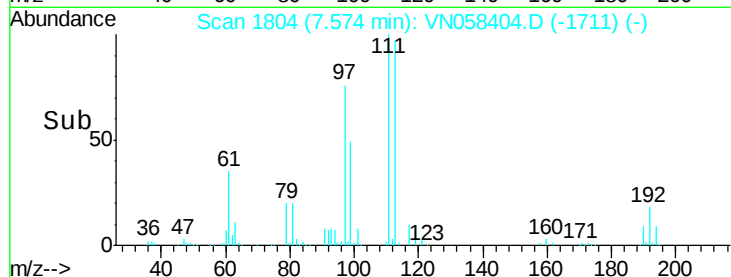
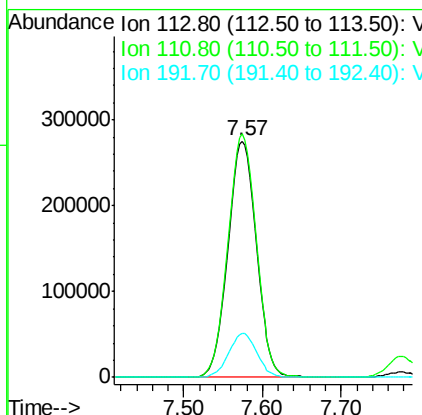
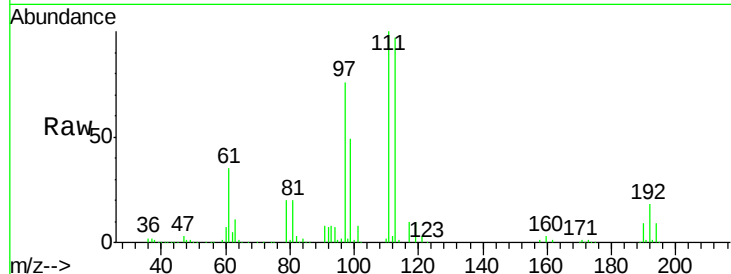
#35
Dibromofluoromethane
Concen: 150.352 ug/l
RT: 7.57 min Scan# 1804
Delta R.T. -0.00 min
Lab File: VN058404.D
Acq: 27 Sep 2019 13:01

Instrument :
MSVOA_N
ClientSampleId :
VSTDIC150

Tot Ion	Ratio	Resp	Lower	Upper
113	100	691356		
111	102.7	83.4	125.2	
192	18.5	14.9	22.3	

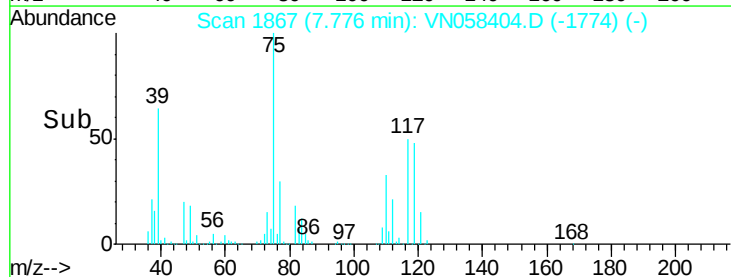
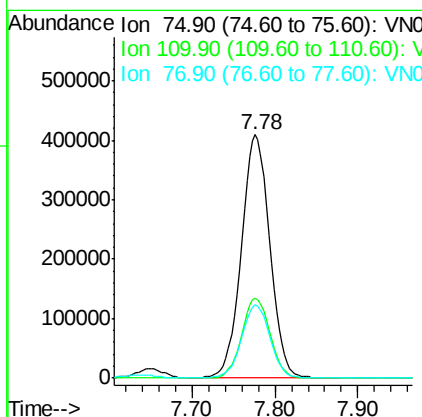
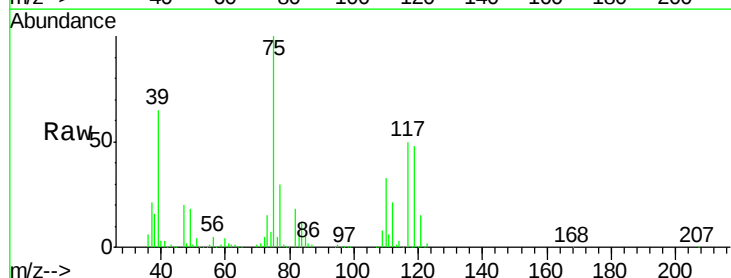
Manual Integrations
APPROVED

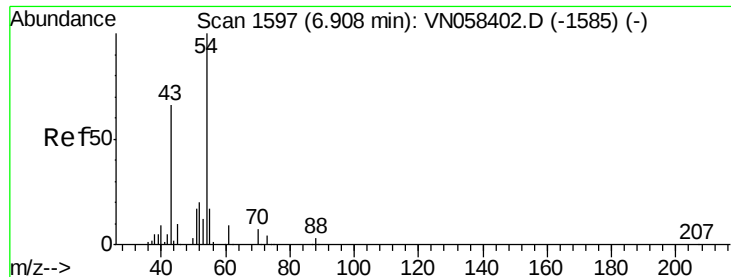
MMDadoda
9/30/2019 10:18:44 AM



#36
1,1-Dichloropropene
Concen: 166.585 ug/l
RT: 7.78 min Scan# 1867
Delta R.T. -0.00 min
Lab File: VN058404.D
Acq: 27 Sep 2019 13:01

Tgt Ion	Ratio	Resp	Lower	Upper
75	100	972735		
110	32.8	16.4	49.2	
77	30.4	24.3	36.5	





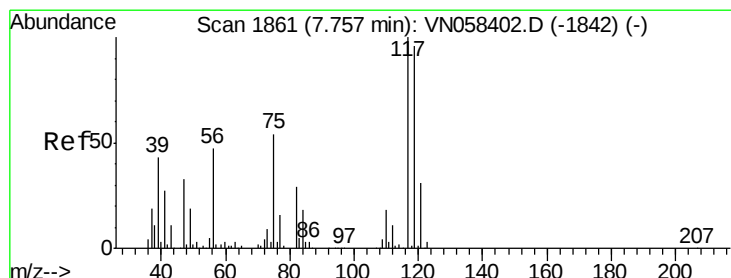
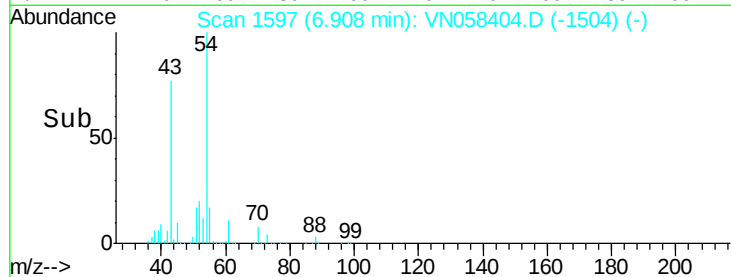
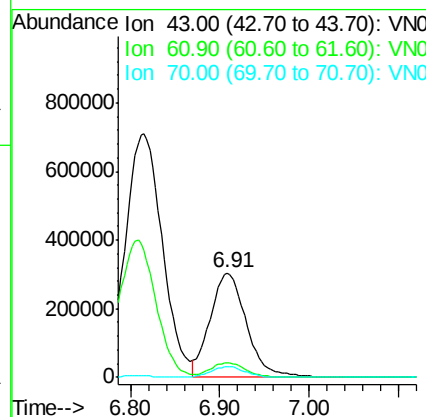
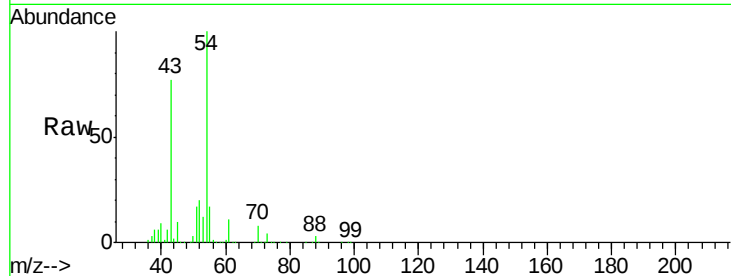
#37
Ethyl Acetate
Concen: 146.750 ug/l
RT: 6.91 min Scan# 1597
Delta R.T. -0.00 min
Lab File: VN058404.D
Acq: 27 Sep 2019 13:01

Instrument :
MSVOA_N
ClientSampleId :
VSTDIC150

Tot Ion	Ratio	Lower	Upper
43	100		
61	13.6	10.5	15.7
70	10.0	7.8	11.6

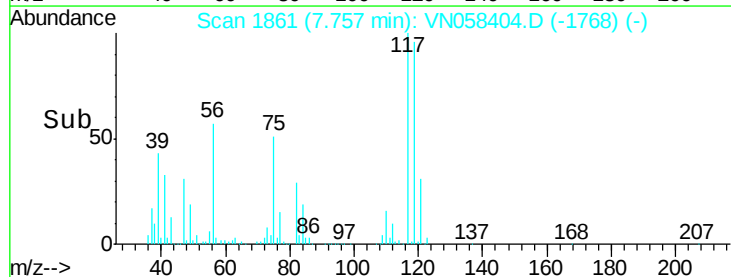
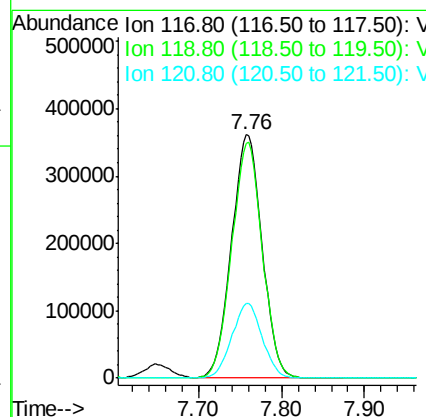
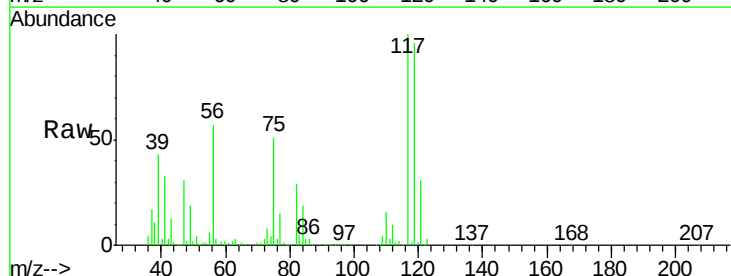
Manual Integrations
APPROVED

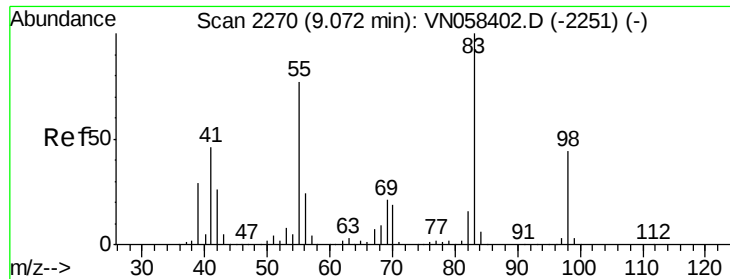
MMDadoda
9/30/2019 10:18:44 AM



#38
Carbon Tetrachloride
Concen: 161.483 ug/l
RT: 7.76 min Scan# 1861
Delta R.T. -0.00 min
Lab File: VN058404.D
Acq: 27 Sep 2019 13:01

Tgt Ion	Ratio	Lower	Upper
117	100		
119	96.5	76.6	115.0
121	30.8	24.7	37.1





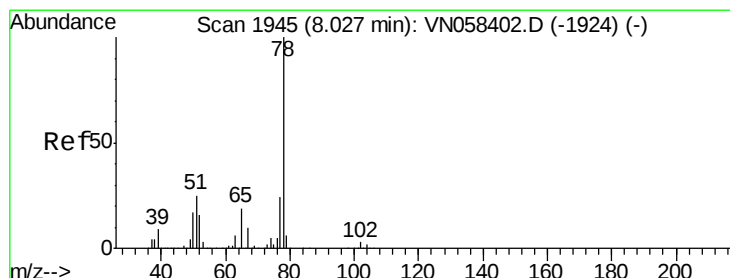
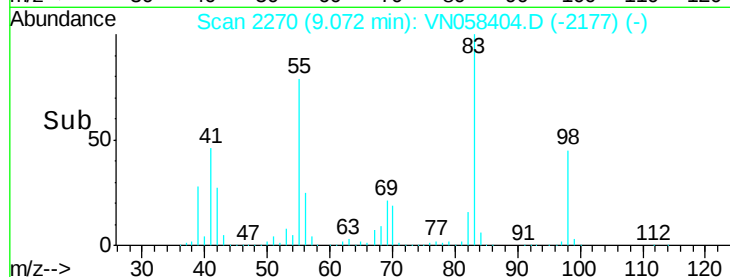
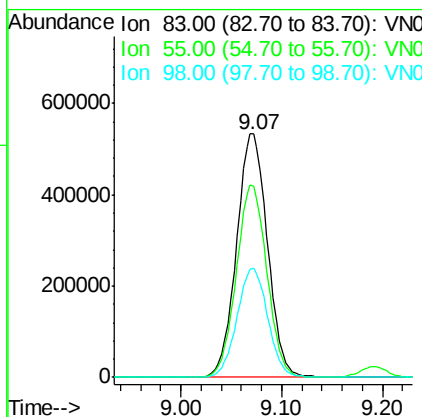
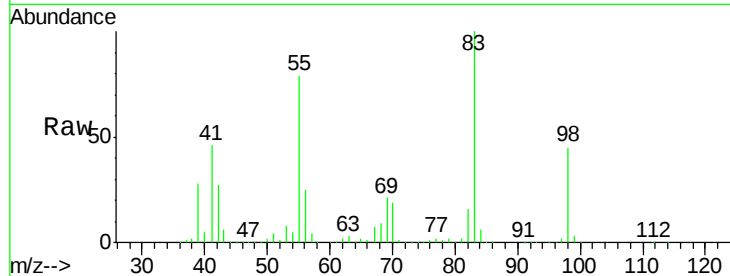
#39
Methvlcvclohexane
Concen: 179.342 ug/l
RT: 9.07 min Scan# 2270
Delta R.T. -0.00 min
Lab File: VN058404.D
Acq: 27 Sep 2019 13:01

Instrument :
MSVOA_N
ClientSampleId :
VSTDIC150

Tot Ion	83.00	Resp	1131301
Ion	Ratio	Lower	Upper
83	100		
55	78.5	61.8	92.6
98	44.7	35.4	53.0

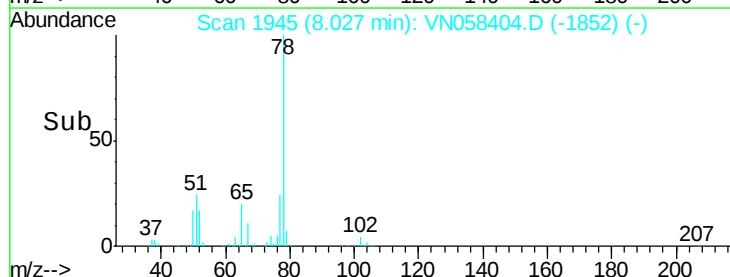
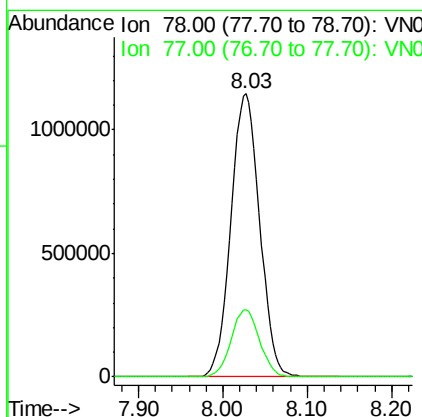
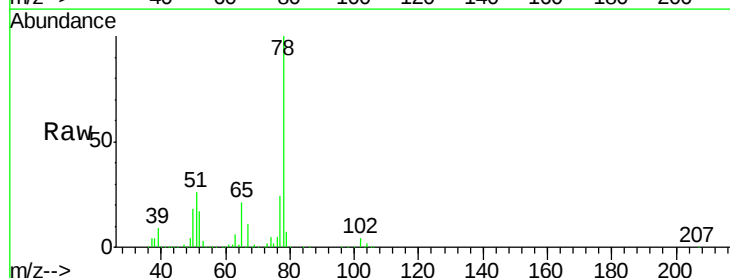
Manual Integrations
APPROVED

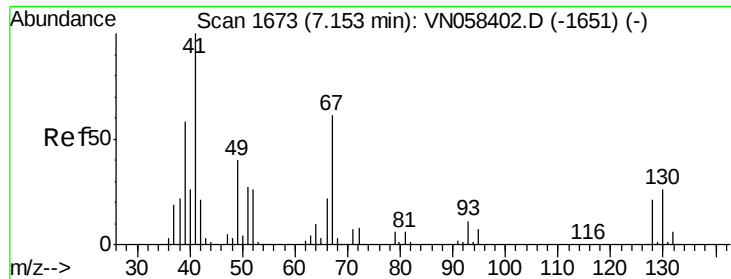
MMDadoda
9/30/2019 10:18:44 AM



#40
Benzene
Concen: 155.222 ug/l
RT: 8.03 min Scan# 1945
Delta R.T. -0.00 min
Lab File: VN058404.D
Acq: 27 Sep 2019 13:01

Tgt Ion	78	Resp	2718596
Ion	Ratio	Lower	Upper
78	100		
77	23.9	18.9	28.3





#41

Methacrylonitrile

Concen: 128.364 ug/l m

RT: 7.16 min Scan# 1674

Delta R.T. 0.00 min

Lab File: VN058404.D

Acq: 27 Sep 2019 13:01

Instrument :

MSVOA_N

ClientSampleId :

VSTDIC150

Tot Ion: 41 Resp: 351121
Ion Ratio Lower Upper

41 100

39 0.0 50.2 75.4#

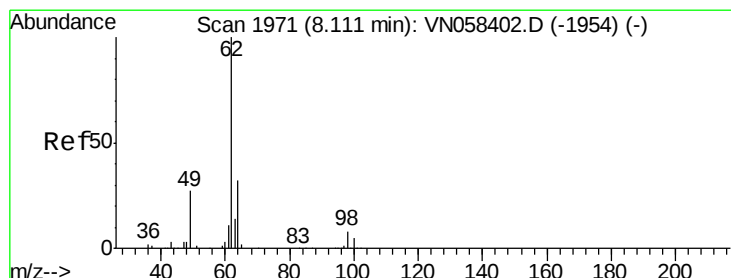
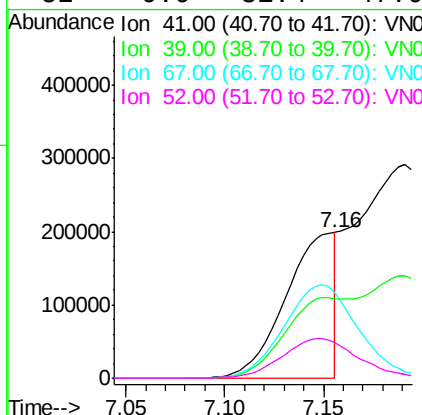
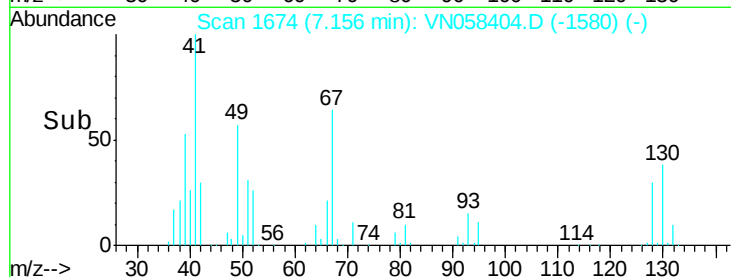
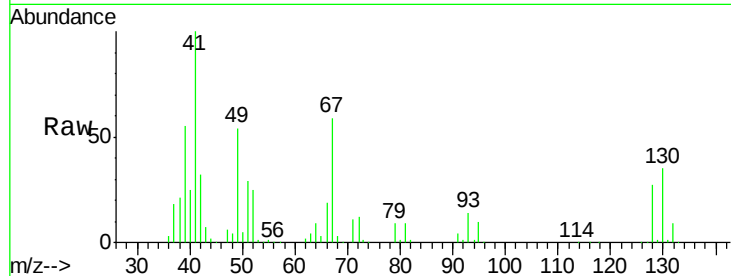
67 0.0 70.2 105.4#

52 0.0 31.4 47.0#

Manual Integrations
APPROVED

MMDadoda

9/30/2019 10:18:44 AM



#42

1,2-Dichloroethane

Concen: 147.343 ug/l

RT: 8.11 min Scan# 1971

Delta R.T. -0.00 min

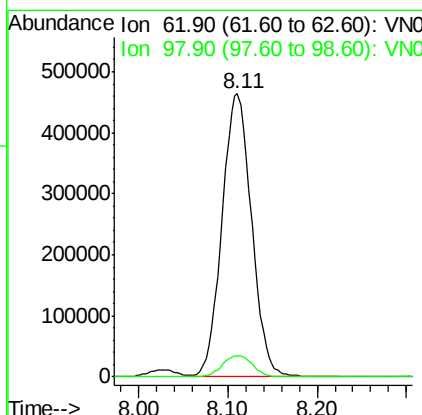
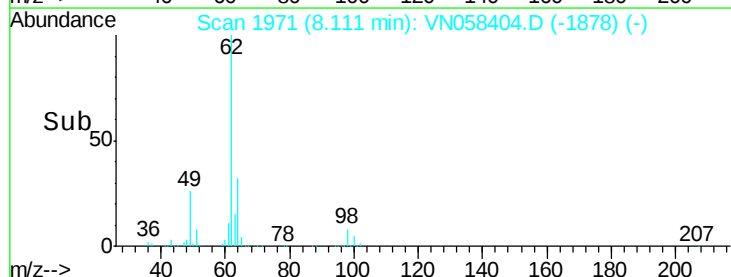
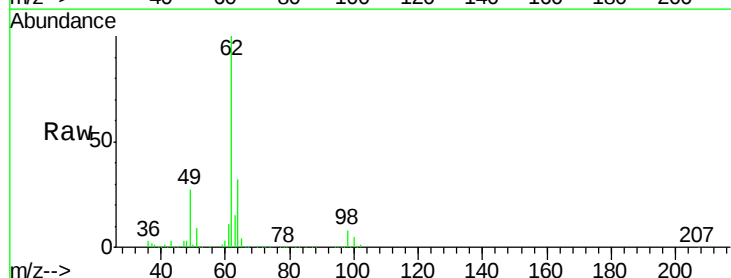
Lab File: VN058404.D

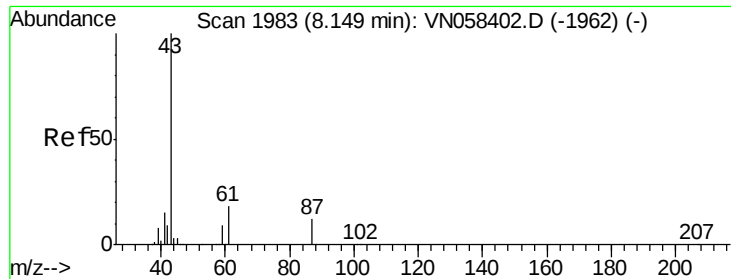
Acq: 27 Sep 2019 13:01

Tgt Ion: 62 Resp: 1062659
Ion Ratio Lower Upper

62 100

98 7.7 0.0 15.6





#43

Isopropyl Acetate

Concen: 140.030 ug/l

RT: 8.15 min Scan# 1983

Delta R.T. -0.00 min

Lab File: VN058404.D

Acq: 27 Sep 2019 13:01

Instrument :

MSVOA_N

ClientSampleId :

VSTDIC150

Tot Ion: 43 Resp: 1505931

Ion Ratio Lower Upper

43 100

61 25.8 14.8 22.2#

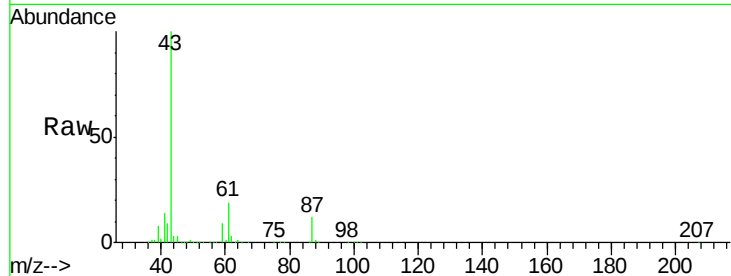
87 12.0 9.7 14.5

Manual Integrations

APPROVED

MMDadoda

9/30/2019 10:18:44 AM



Abundance Ion 43.00 (42.70 to 43.70): VN058404.D (-1890) (-)

Ion 61.00 (60.70 to 61.70): VN058404.D (-1890) (-)

Ion 87.00 (86.70 to 87.70): VN058404.D (-1890) (-)

8.15

800000

600000

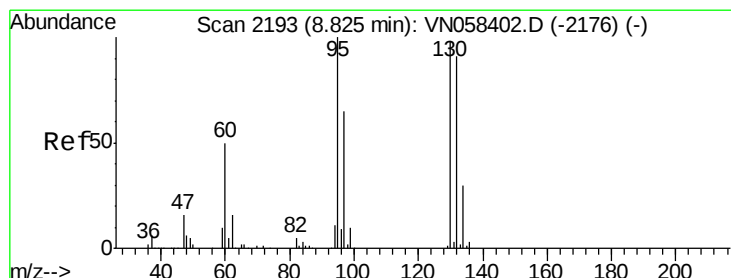
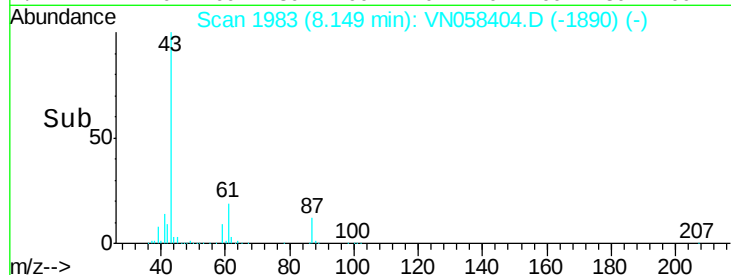
400000

200000

0

8.05 8.10 8.15 8.20 8.25

Time-->



#44

Trichloroethene

Concen: 159.533 ug/l

RT: 8.82 min Scan# 2193

Delta R.T. -0.00 min

Lab File: VN058404.D

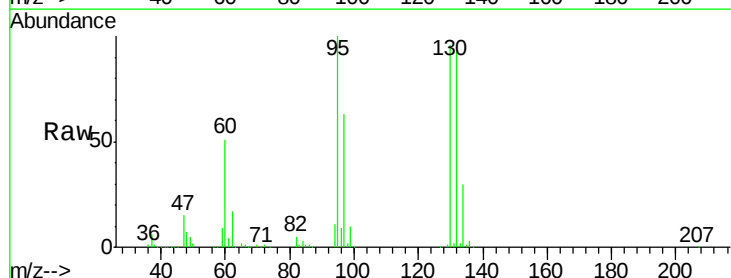
Acq: 27 Sep 2019 13:01

Tgt Ion:130 Resp: 685061

Ion Ratio Lower Upper

130 100

95 103.8 0.0 204.2



Abundance Ion 129.80 (129.50 to 130.50): VN058404.D (-2100) (-)

Ion 94.90 (94.60 to 95.60): VN058404.D (-2100) (-)

8.82

400000

300000

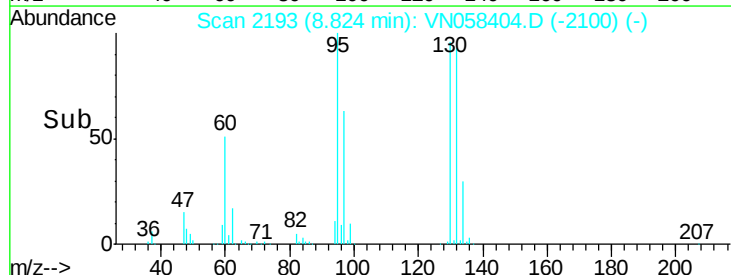
200000

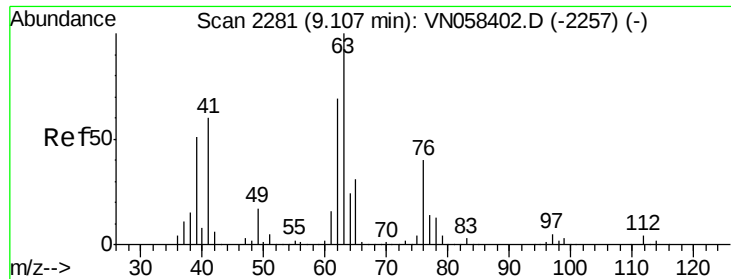
100000

0

8.70 8.80 8.90 9.00

Time-->





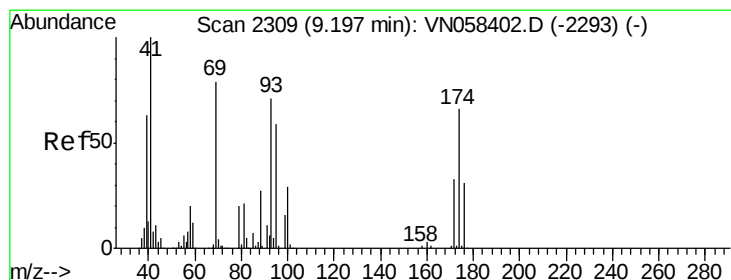
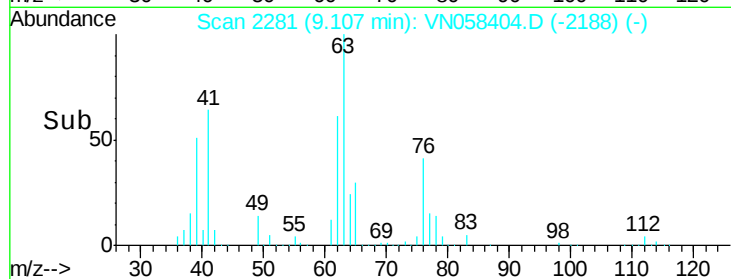
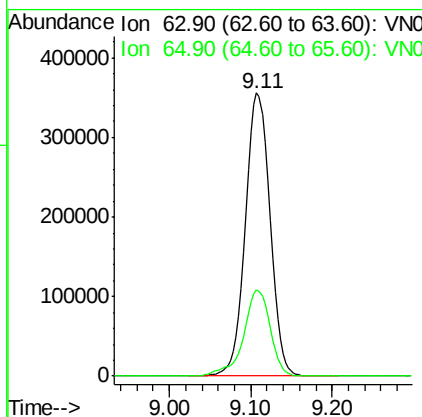
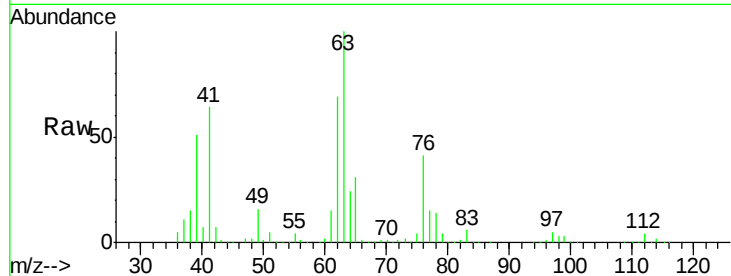
#45
 1,2-Dichloropropane
 Concen: 144.698 ug/l
 RT: 9.11 min Scan# 2281
 Delta R.T. -0.00 min
 Lab File: VN058404.D
 Acq: 27 Sep 2019 13:01

Instrument :
 MSVOA_N
 ClientSampleId :
 VSTDIC150

Tot Ion: 63 Resp: 737554
 Ion Ratio Lower Upper
 63 100
 65 30.6 25.0 37.4

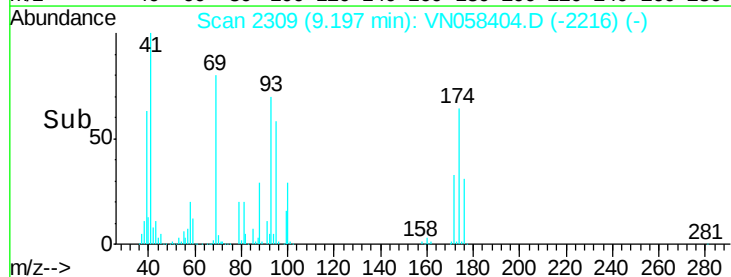
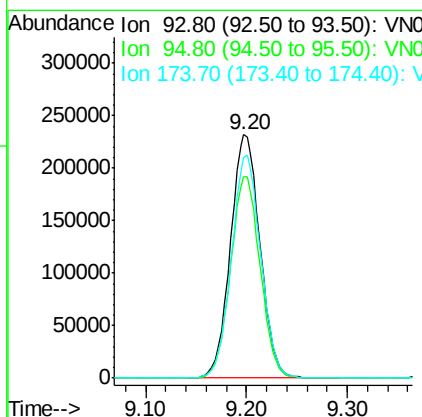
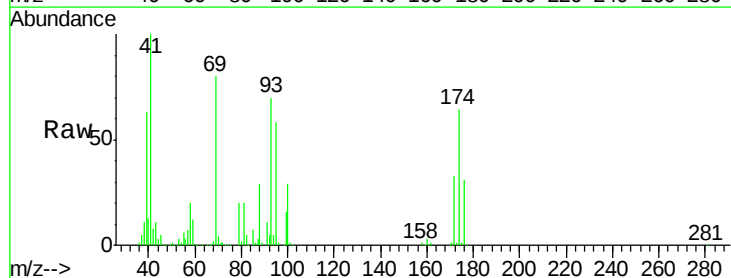
Manual Integrations
 APPROVED

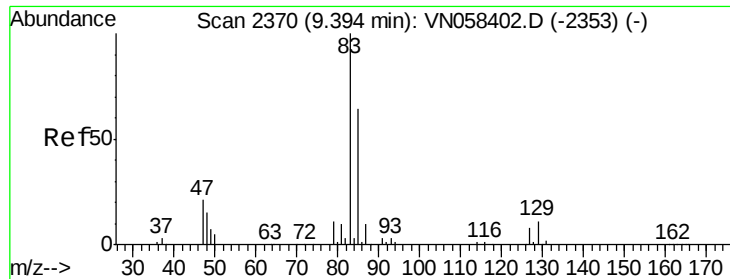
MMDadoda
 9/30/2019 10:18:44 AM



#46
 Dibromomethane
 Concen: 151.214 ug/l
 RT: 9.20 min Scan# 2309
 Delta R.T. -0.00 min
 Lab File: VN058404.D
 Acq: 27 Sep 2019 13:01

Tgt Ion: 93 Resp: 472449
 Ion Ratio Lower Upper
 93 100
 95 82.9 67.0 100.4
 174 91.0 74.2 111.2





#47

Bromodichloromethane

Concen: 151.015 ug/l

RT: 9.39 min Scan# 2370

Delta R.T. -0.00 min

Lab File: VN058404.D

Acq: 27 Sep 2019 13:01

Instrument :

MSVOA_N

ClientSampleId :

VSTDIC150

Tot Ion: 83 Resp: 971138

Ion Ratio Lower Upper

83 100

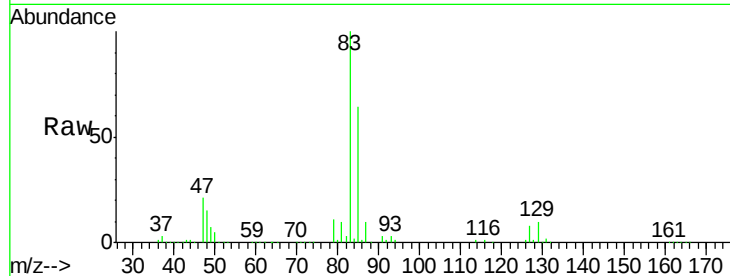
85 64.3 51.2 76.8

127 8.2 6.3 9.5

Manual Integrations
APPROVED

MMDadoda

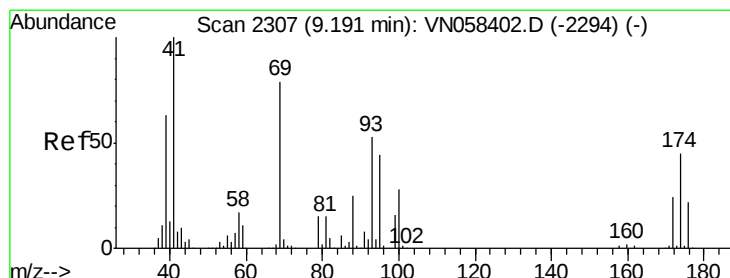
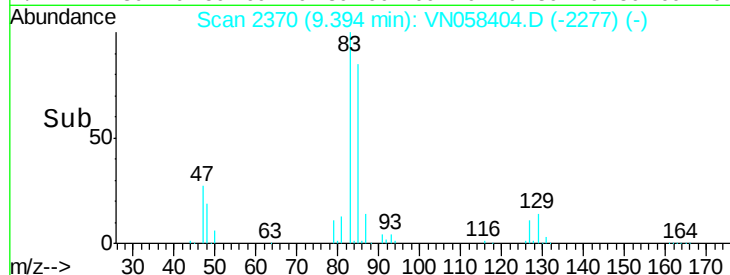
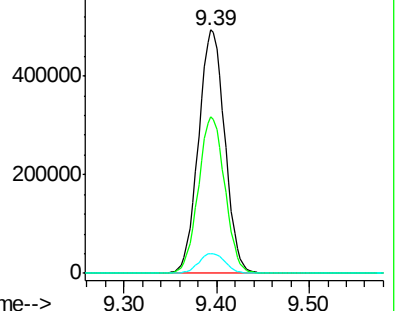
9/30/2019 10:18:44 AM



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): VNO



#48

Methyl methacrylate

Concen: 146.791 ug/l

RT: 9.19 min Scan# 2307

Delta R.T. -0.00 min

Lab File: VN058404.D

Acq: 27 Sep 2019 13:01

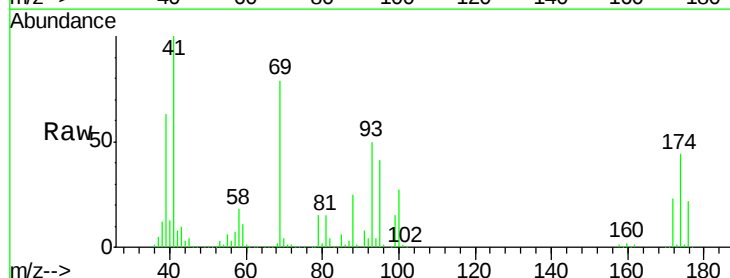
Tgt Ion: 41 Resp: 715833

Ion Ratio Lower Upper

41 100

69 81.5 64.7 97.1

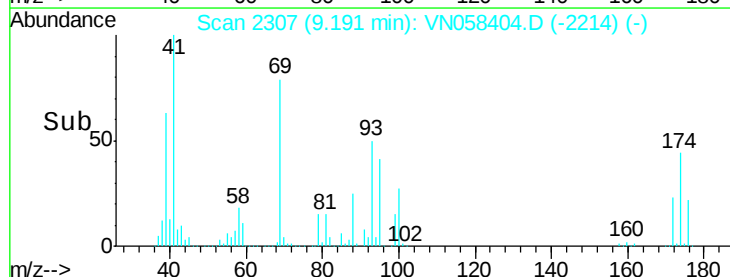
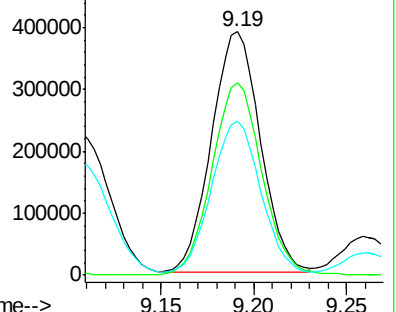
39 65.2 52.9 79.3

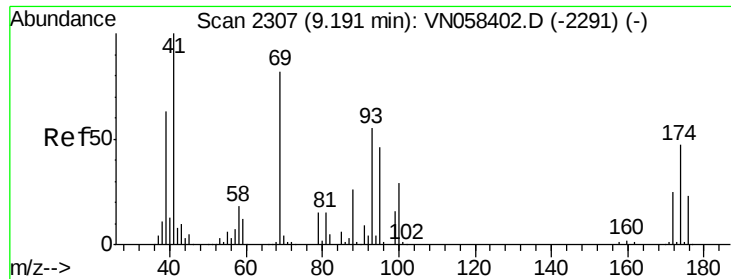


Abundance Ion 41.00 (40.70 to 41.70): VNO

Ion 69.00 (68.70 to 69.70): VNO

Ion 39.00 (38.70 to 39.70): VNO





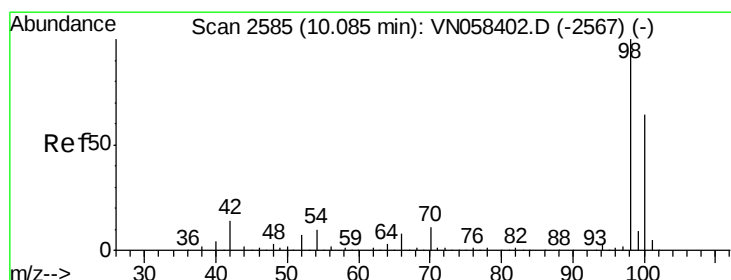
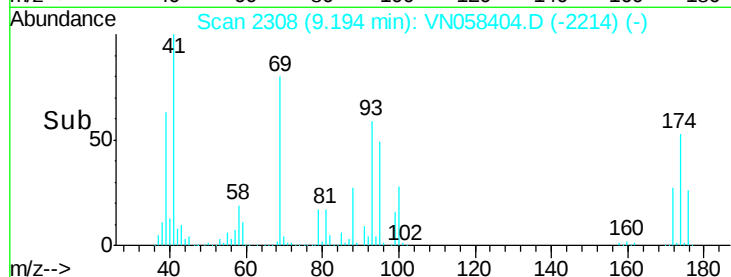
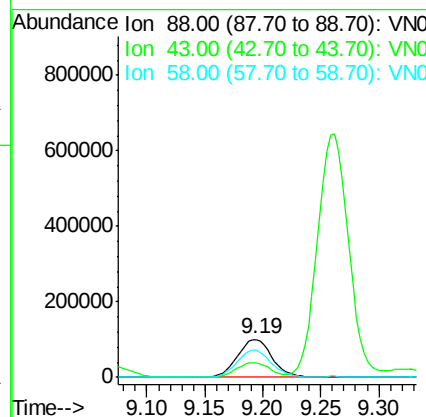
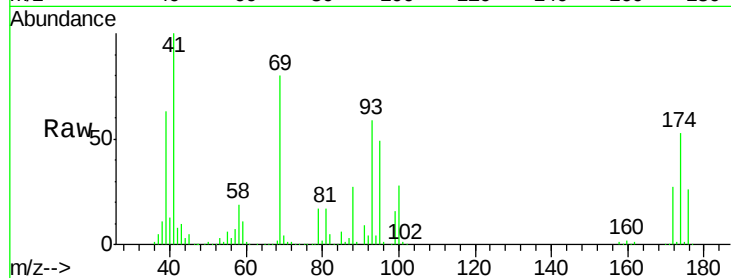
#49
1,4-Dioxane
Concen: 2681.589 ug/l
RT: 9.19 min Scan# 2308
Delta R.T. 0.00 min
Lab File: VN058404.D
Acq: 27 Sep 2019 13:01

Instrument :
MSVOA_N
ClientSampleId :
VSTDIC150

Tot Ion	Ratio	Lower	Upper
88	100		
43	37.0	31.1	46.7
58	71.3	58.1	87.1

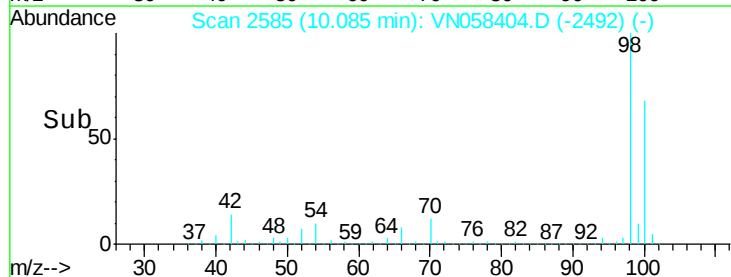
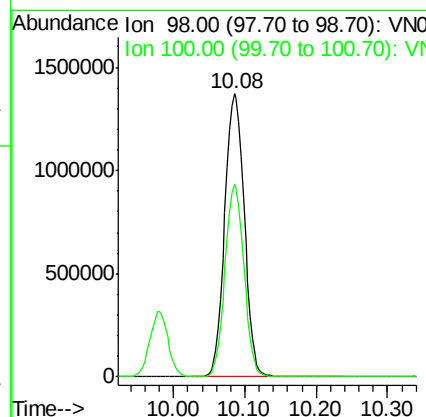
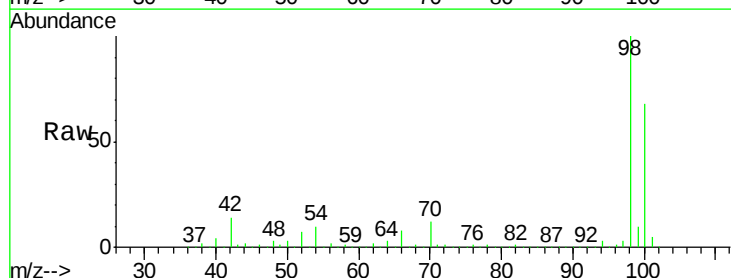
Manual Integrations
APPROVED

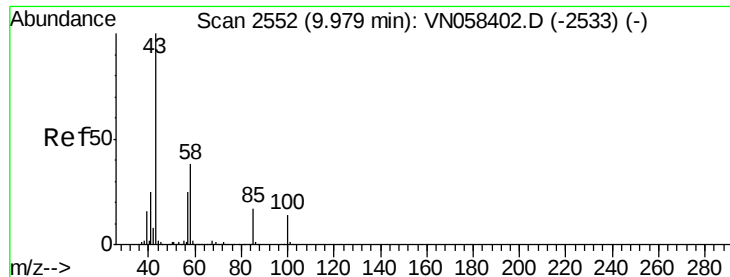
MMDadoda
9/30/2019 10:18:44 AM



#50
Toluene-d8
Concen: 146.214 ug/l
RT: 10.08 min Scan# 2585
Delta R.T. -0.00 min
Lab File: VN058404.D
Acq: 27 Sep 2019 13:01

Tgt Ion	Ratio	Lower	Upper
98	100		
100	65.7	51.0	76.6





#51

4-Methyl-2-Pentanone

Concen: 653.236 ug/l

RT: 9.98 min Scan# 2552

Delta R.T. -0.00 min

Lab File: VN058404.D

Acq: 27 Sep 2019 13:01

Instrument :

MSVOA_N

ClientSampleId :

VSTDIC150

Tot Ion: 43 Resp: 3690633

Ion Ratio Lower Upper

43 100

58 42.6

30.2

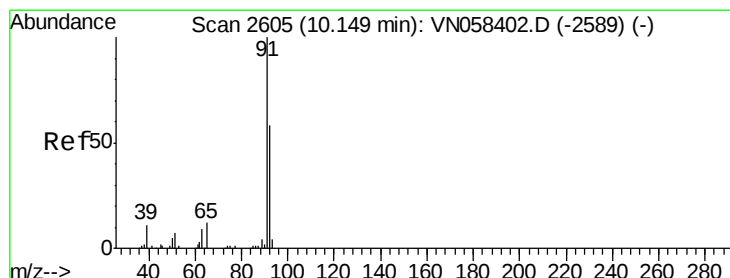
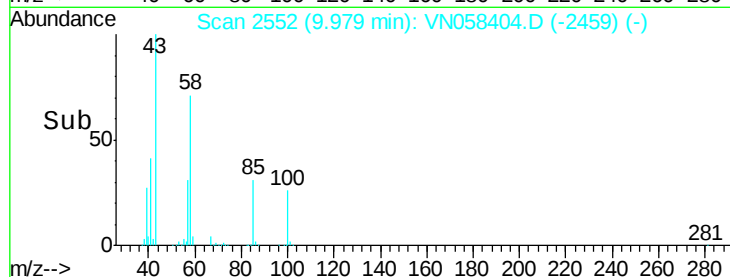
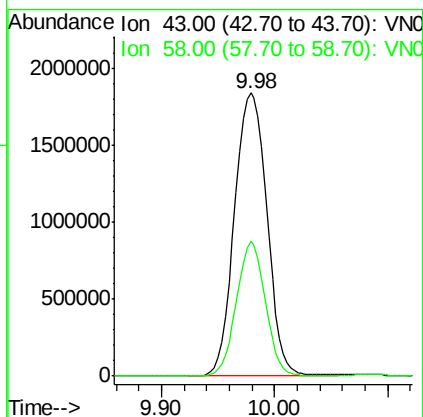
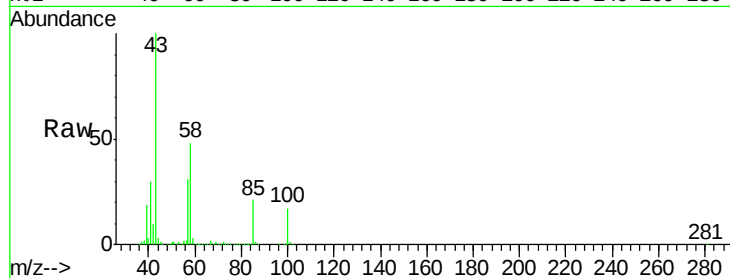
45.2

Manual Integrations

APPROVED

MMDadoda

9/30/2019 10:18:44 AM



#52

Toluene

Concen: 156.646 ug/l

RT: 10.15 min Scan# 2605

Delta R.T. -0.00 min

Lab File: VN058404.D

Acq: 27 Sep 2019 13:01

Tgt Ion: 92 Resp: 1707216

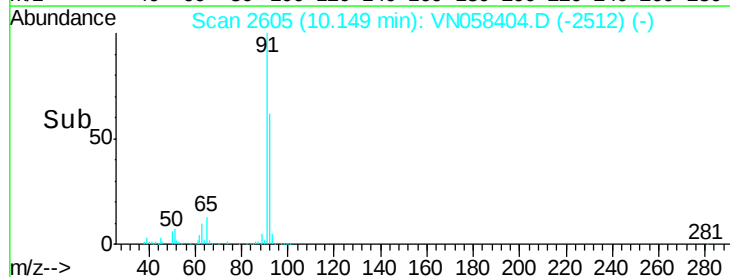
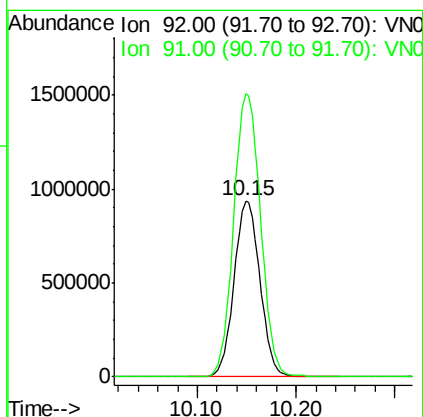
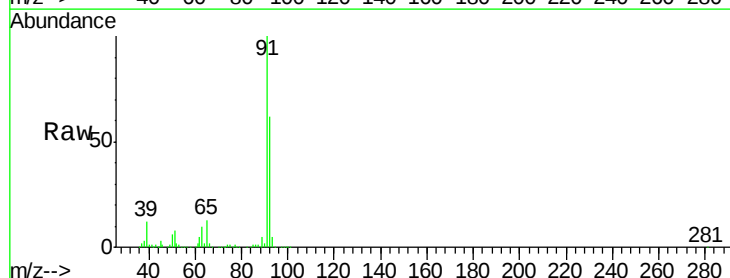
Ion Ratio Lower Upper

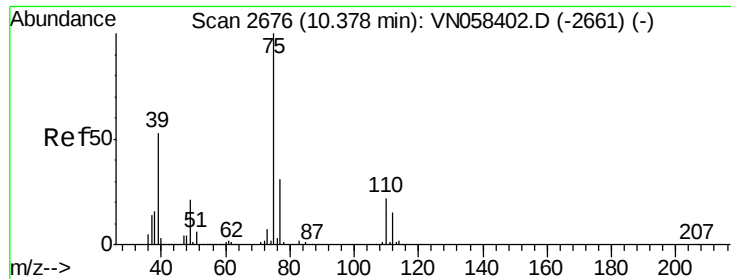
92 100

91 167.8

140.2

210.4





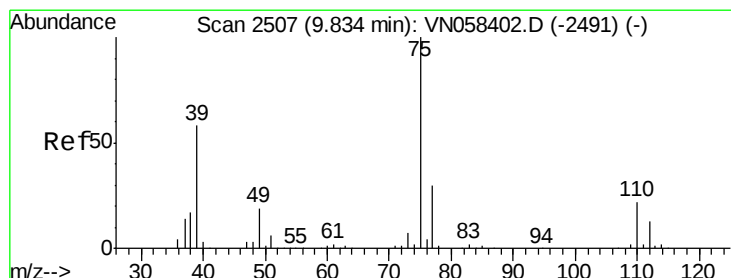
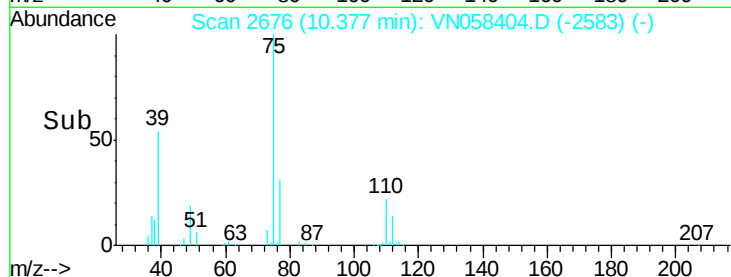
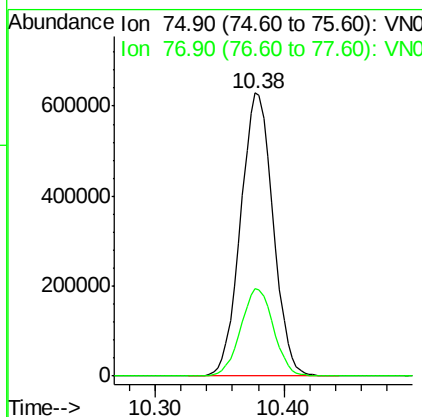
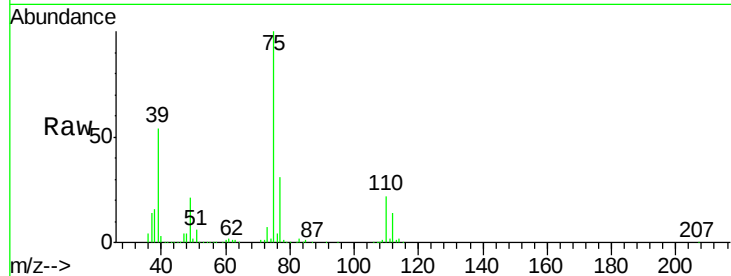
#53
t-1,3-Dichloropropene
Concen: 164.944 ug/l
RT: 10.38 min Scan# 2676
Delta R.T. -0.00 min
Lab File: VN058404.D
Acq: 27 Sep 2019 13:01

Instrument :
MSVOA_N
ClientSampleId :
VSTDIC150

Tot Ion: 75 Resp: 1102025
Ion Ratio Lower Upper
75 100
77 30.8 25.2 37.8

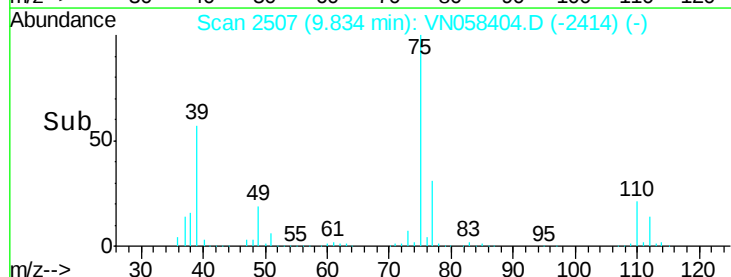
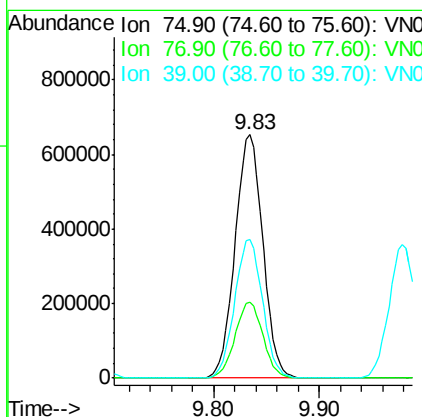
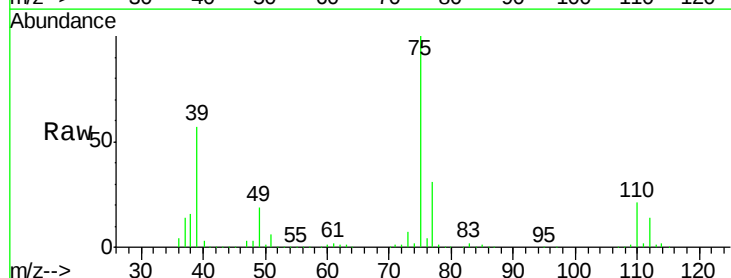
Manual Integrations
APPROVED

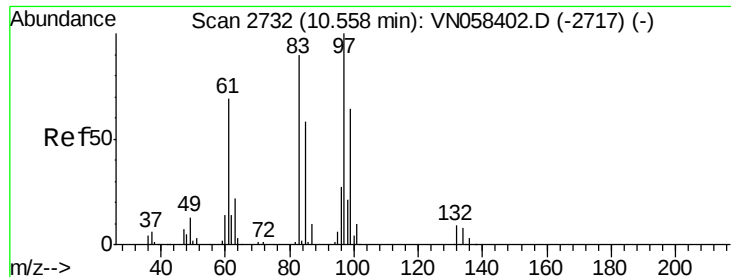
MMDadoda
9/30/2019 10:18:44 AM



#54
cis-1,3-Dichloropropene
Concen: 161.405 ug/l
RT: 9.83 min Scan# 2507
Delta R.T. -0.00 min
Lab File: VN058404.D
Acq: 27 Sep 2019 13:01

Tgt Ion: 75 Resp: 1193828
Ion Ratio Lower Upper
75 100
77 31.2 24.2 36.4
39 56.8 46.4 69.6





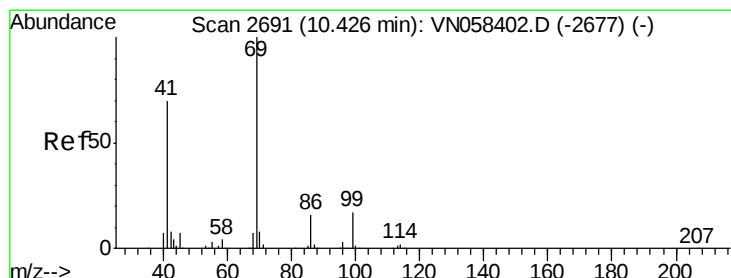
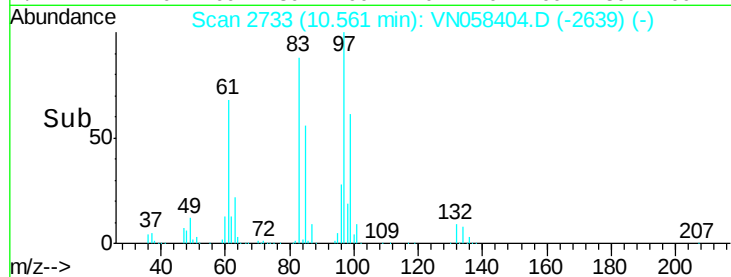
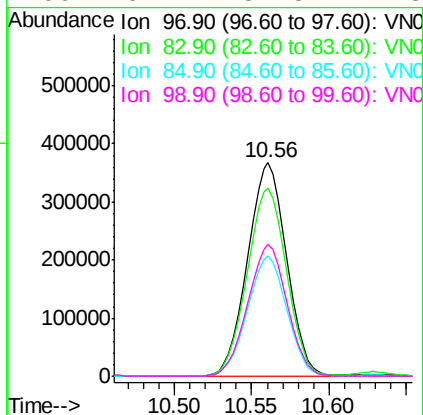
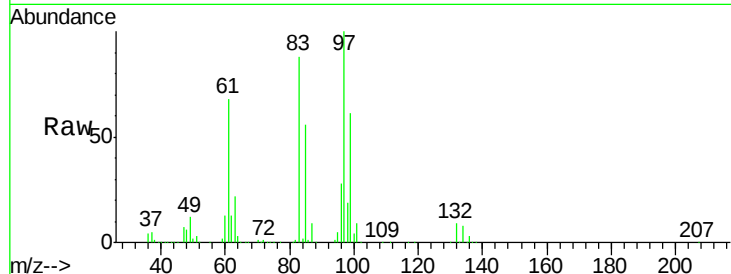
#55
 1,1,2-Trichloroethane
 Concen: 138.069 ug/l
 RT: 10.56 min Scan# 2733
 Delta R.T. 0.00 min
 Lab File: VN058404.D
 Acq: 27 Sep 2019 13:01

Instrument :
 MSVOA_N
 ClientSampleId :
 VSTDIC150

Tot Ion:	97	Resp:	645316
Ion	Ratio	Lower	Upper
97	100		
83	87.9	71.8	107.6
85	56.4	46.6	69.8
99	61.4	51.5	77.3

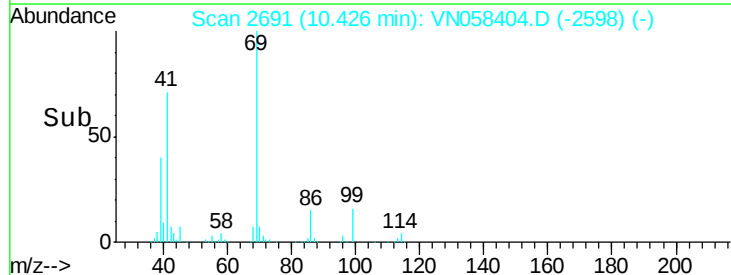
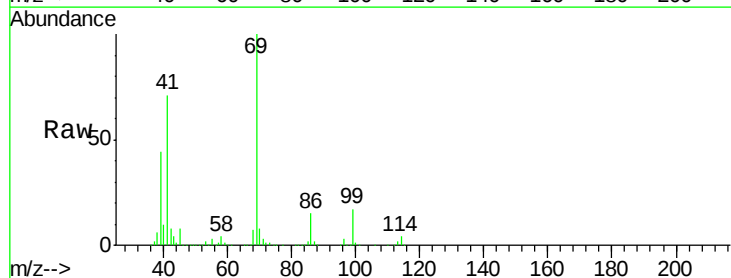
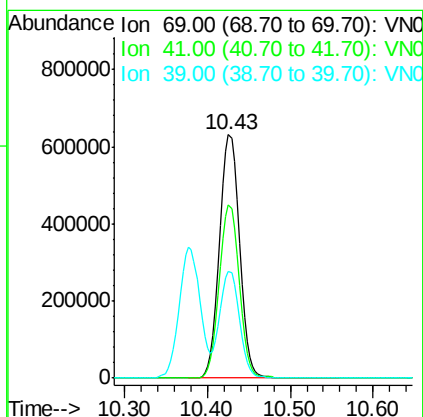
Manual Integrations
 APPROVED

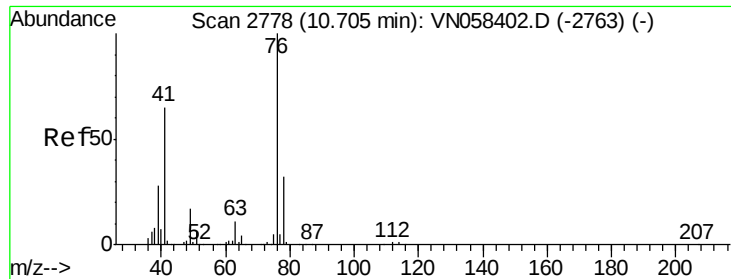
MMDadoda
 9/30/2019 10:18:44 AM



#56
 Ethyl methacrylate
 Concen: 155.445 ug/l
 RT: 10.43 min Scan# 2691
 Delta R.T. -0.00 min
 Lab File: VN058404.D
 Acq: 27 Sep 2019 13:01

Tgt Ion:	69	Resp:	1055539
Ion	Ratio	Lower	Upper
69	100		
41	70.2	56.3	84.5
39	43.4	35.8	53.6





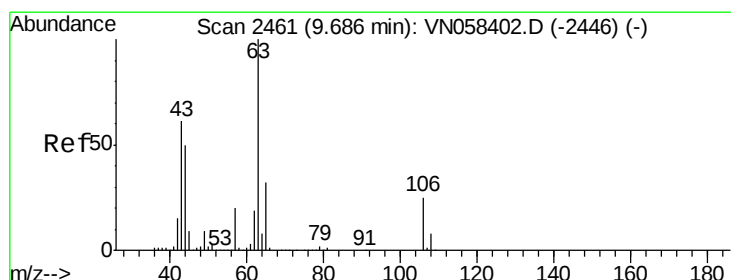
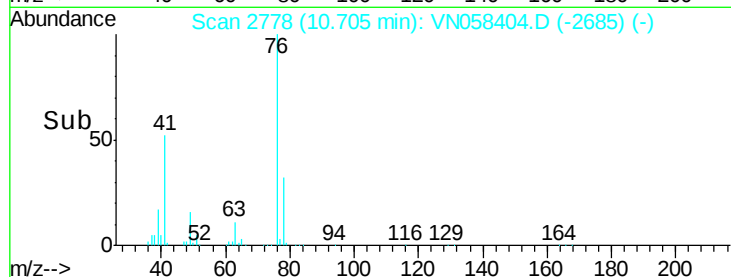
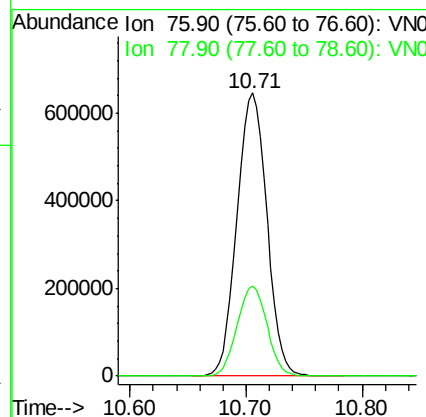
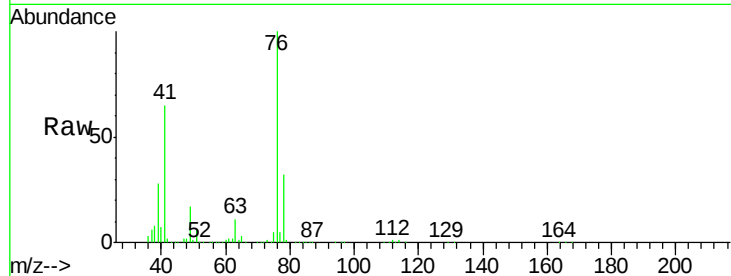
#57
 1,3-Dichloropropane
 Concen: 142.223 ug/l
 RT: 10.71 min Scan# 2778
 Delta R.T. -0.00 min
 Lab File: VN058404.D
 Acq: 27 Sep 2019 13:01

Instrument :
 MSVOA_N
 ClientSampleId :
 VSTDIC150

Tot Ion: 76 Resp: 1151922
 Ion Ratio Lower Upper
 76 100
 78 31.9 25.7 38.5

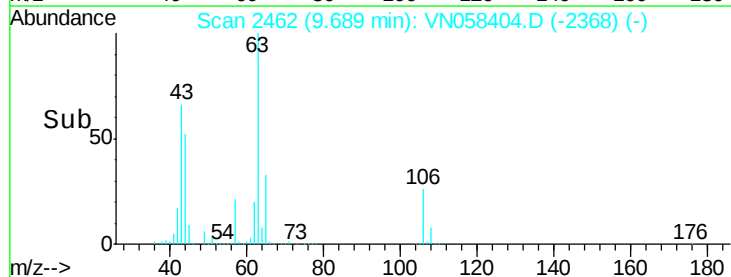
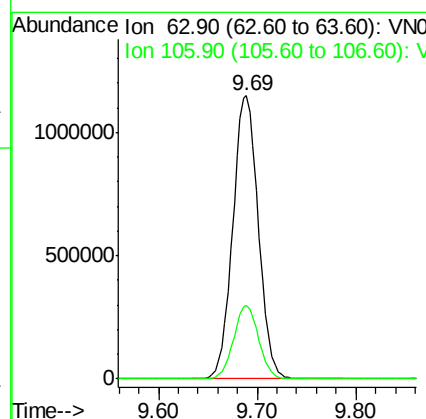
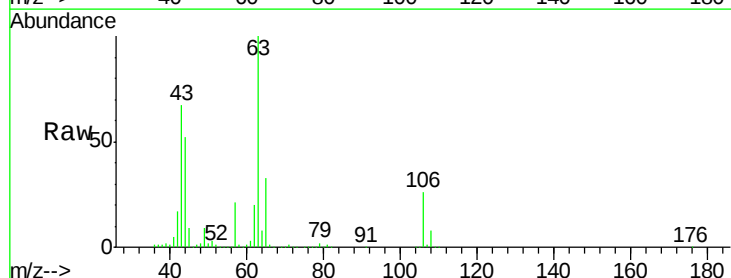
Manual Integrations
 APPROVED

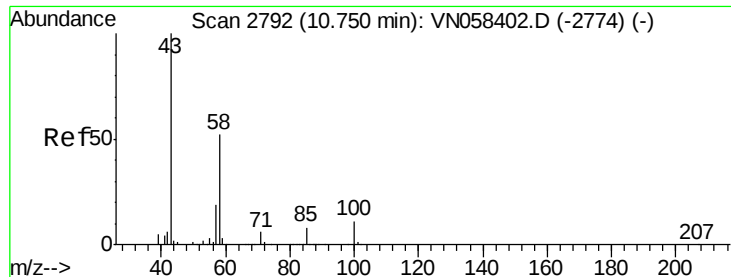
MMDadoda
 9/30/2019 10:18:44 AM



#58
 2-Chloroethyl Vinyl ether
 Concen: 666.554 ug/l
 RT: 9.69 min Scan# 2462
 Delta R.T. 0.00 min
 Lab File: VN058404.D
 Acq: 27 Sep 2019 13:01

Tgt Ion: 63 Resp: 2071624
 Ion Ratio Lower Upper
 63 100
 106 25.5 20.3 30.5





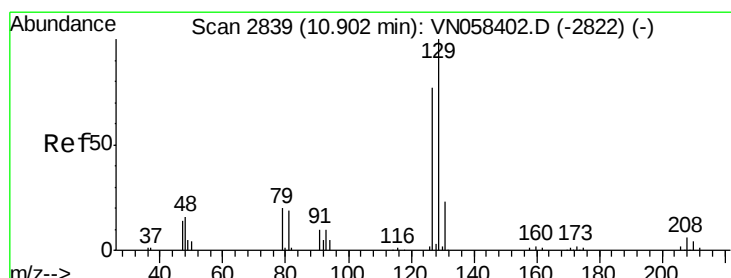
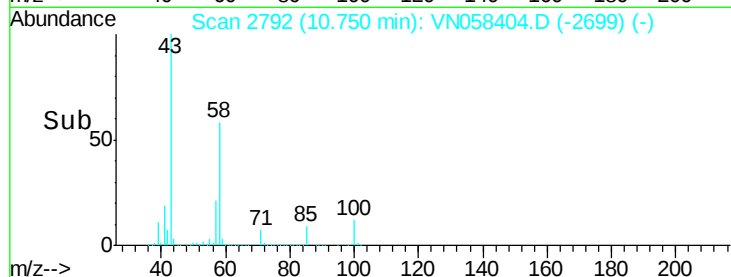
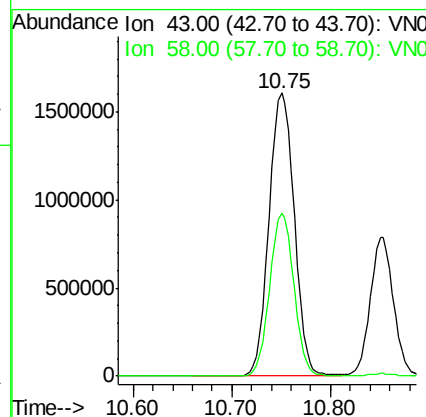
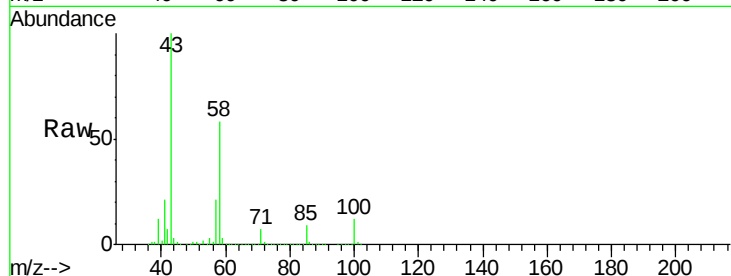
#59
2-Hexanone
Concen: 678.202 ug/l
RT: 10.75 min Scan# 2792
Delta R.T. -0.00 min
Lab File: VN058404.D
Acq: 27 Sep 2019 13:01

Instrument :
MSVOA_N
ClientSampleId :
VSTDIC150

Tot Ion: 43 Resp: 2838732
Ion Ratio Lower Upper
43 100
58 55.2 25.8 77.3

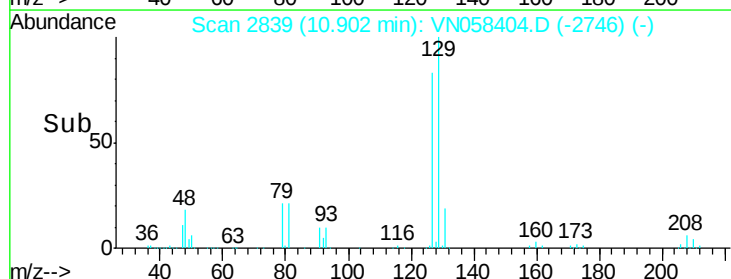
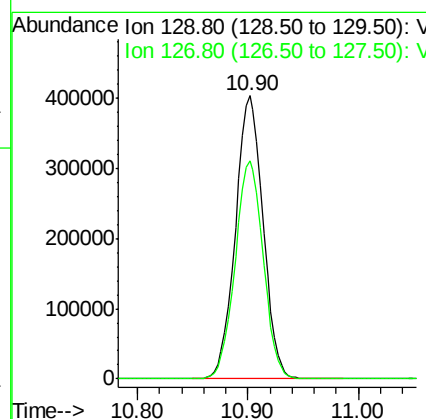
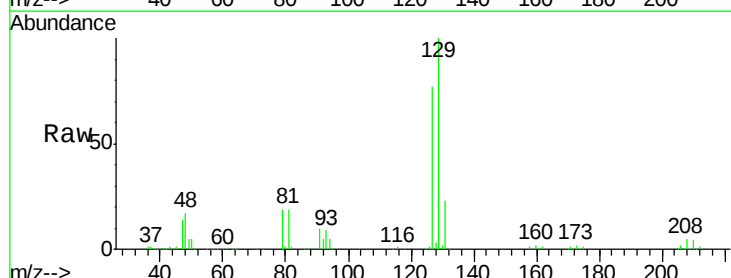
Manual Integrations
APPROVED

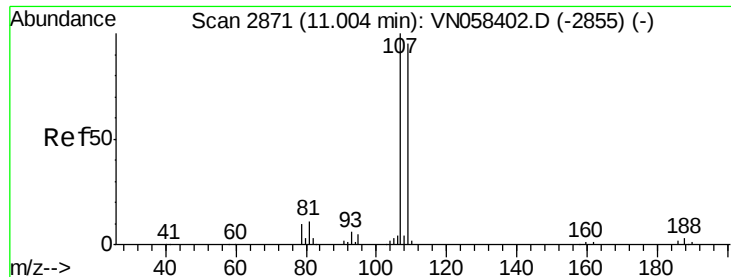
MMDadoda
9/30/2019 10:18:44 AM



#60
Dibromochloromethane
Concen: 155.574 ug/l
RT: 10.90 min Scan# 2839
Delta R.T. -0.00 min
Lab File: VN058404.D
Acq: 27 Sep 2019 13:01

Tgt Ion:129 Resp: 699932
Ion Ratio Lower Upper
129 100
127 78.4 38.3 114.8





#61

1,2-Dibromoethane

Concen: 151.695 ug/l

RT: 11.00 min Scan# 2871

Delta R.T. -0.00 min

Lab File: VN058404.D

Acq: 27 Sep 2019 13:01

Instrument :

MSVOA_N

ClientSampleId :

VSTDIC150

Tot Ion: 107 Resp: 670466

Ion Ratio Lower Upper

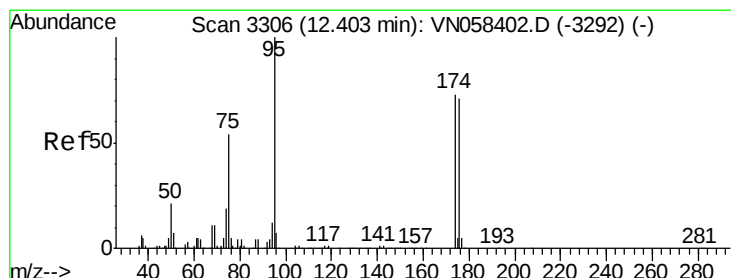
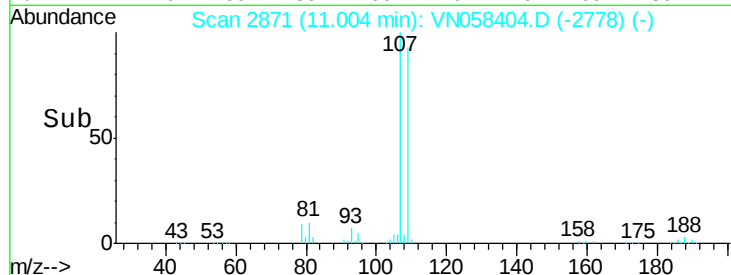
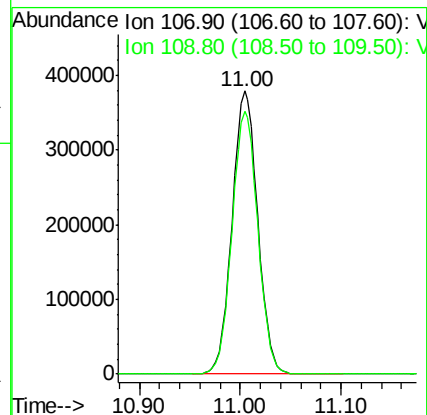
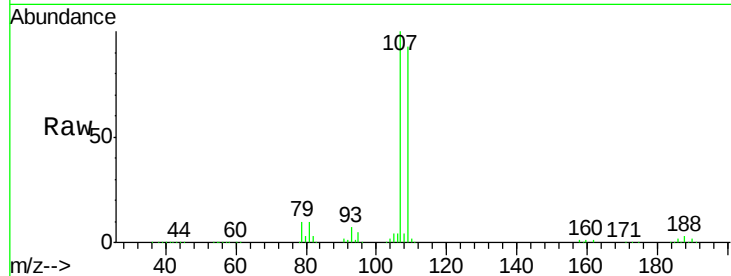
107 100

109 93.9 75.3 112.9

Manual Integrations
APPROVED

MMDadoda

9/30/2019 10:18:44 AM



#62

4-Bromofluorobenzene

Concen: 150.018 ug/l

RT: 12.41 min Scan# 3307

Delta R.T. 0.00 min

Lab File: VN058404.D

Acq: 27 Sep 2019 13:01

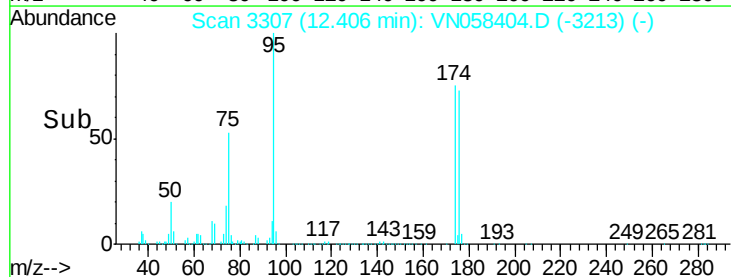
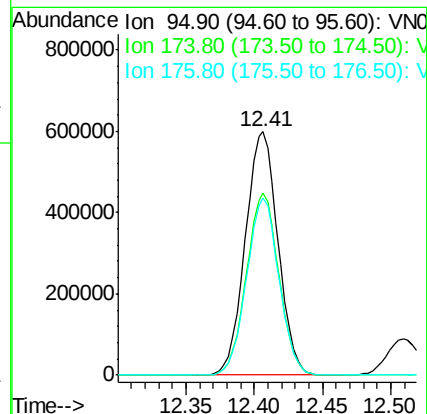
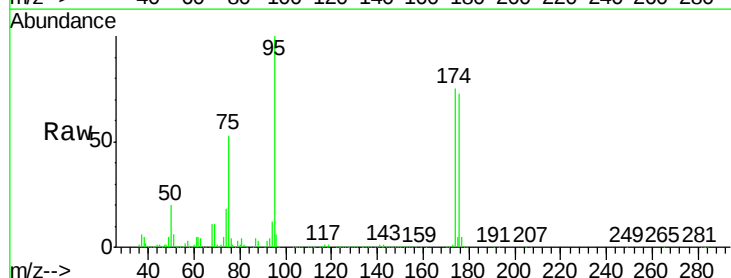
Tgt Ion: 95 Resp: 992909

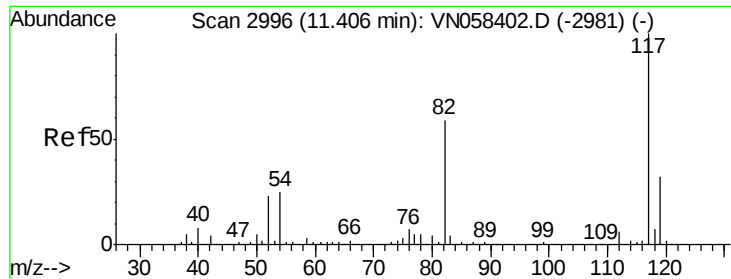
Ion Ratio Lower Upper

95 100

174 74.4 0.0 150.6

176 72.4 0.0 146.2





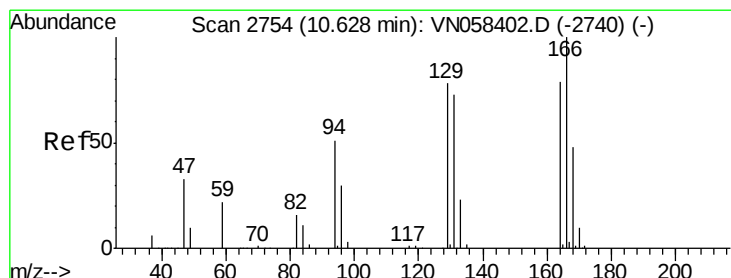
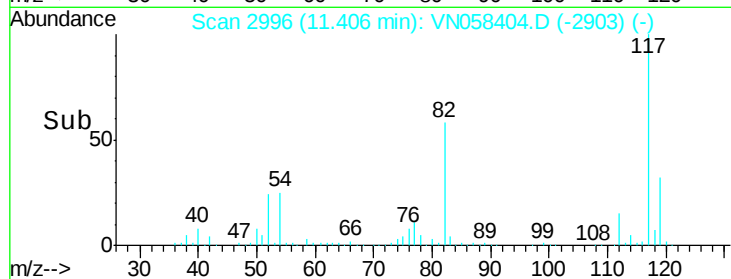
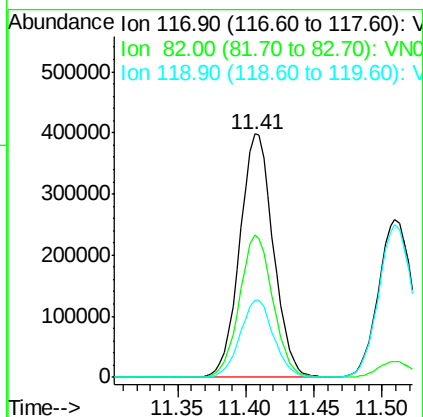
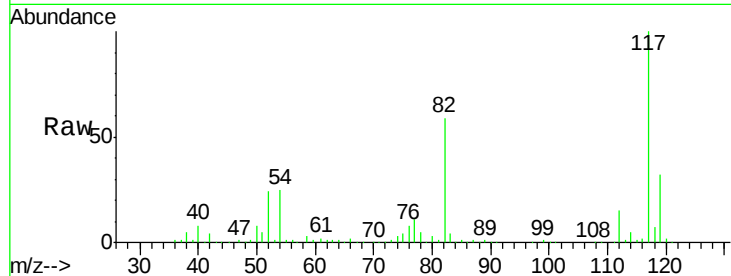
#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.41 min Scan# 2996
Delta R.T. -0.00 min
Lab File: VN058404.D
Acq: 27 Sep 2019 13:01

Instrument :
MSVOA_N
ClientSampled :
VSTDIC150

Tot Ion	Ratio	Lower	Upper
117	100		
82	58.5	47.4	71.0
119	31.8	25.5	38.3

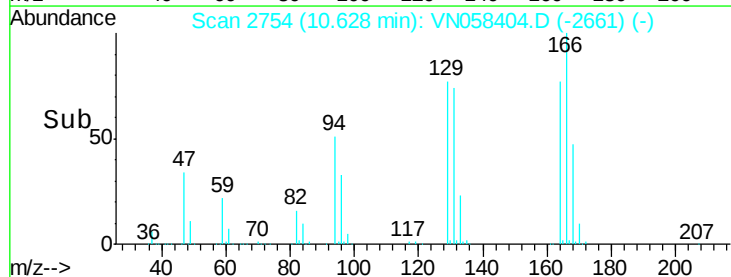
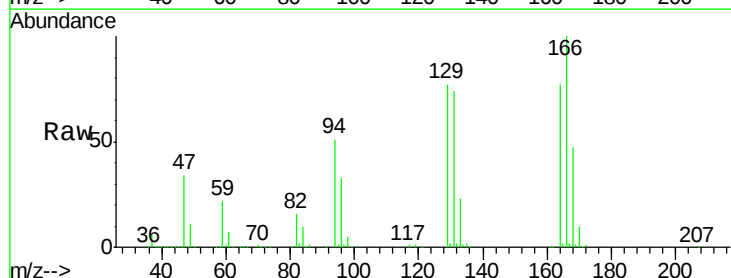
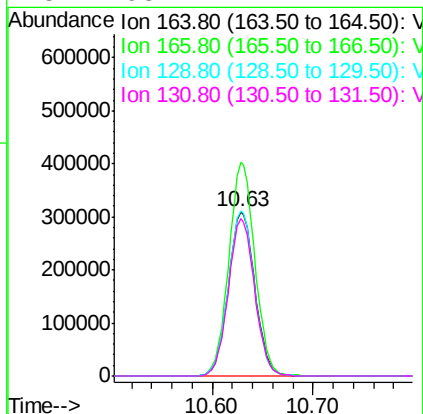
Manual Integrations
APPROVED

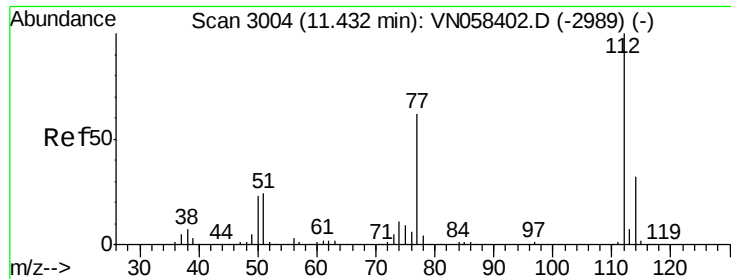
MMDadoda
9/30/2019 10:18:44 AM



#64
Tetrachloroethene
Concen: 160.760 ug/l
RT: 10.63 min Scan# 2754
Delta R.T. -0.00 min
Lab File: VN058404.D
Acq: 27 Sep 2019 13:01

Tgt Ion	Ratio	Lower	Upper
164	100		
166	130.0	101.1	151.7
129	100.7	79.2	118.8
131	95.7	74.1	111.1





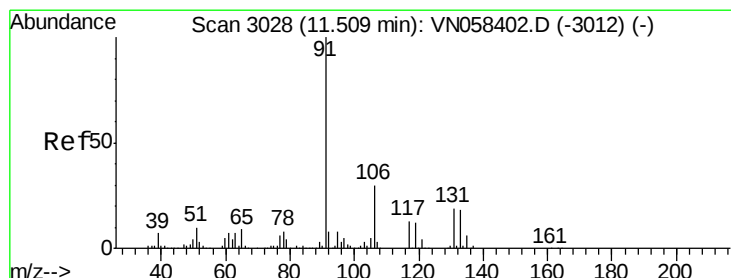
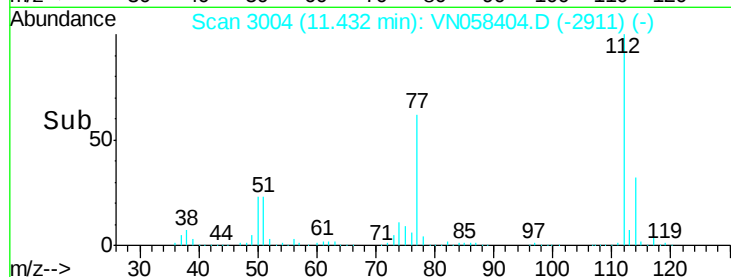
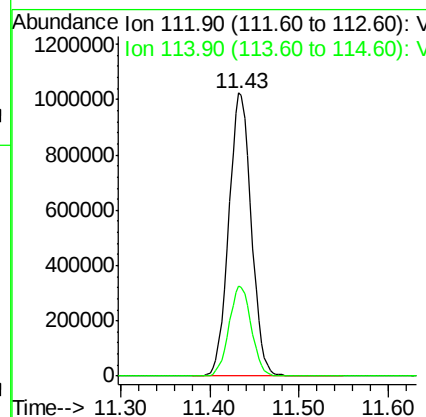
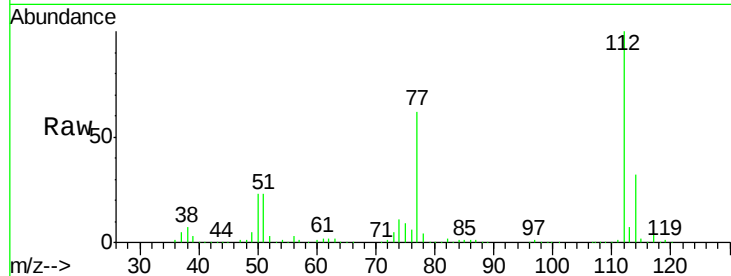
#65
Chlorobenzene
Concen: 144.421 ug/l
RT: 11.43 min Scan# 3004
Delta R.T. -0.00 min
Lab File: VN058404.D
Acq: 27 Sep 2019 13:01

Instrument :
MSVOA_N
ClientSampleId :
VSTDIC150

Tot Ion:112 Resp: 1781163
Ion Ratio Lower Upper
112 100
114 31.8 25.4 38.2

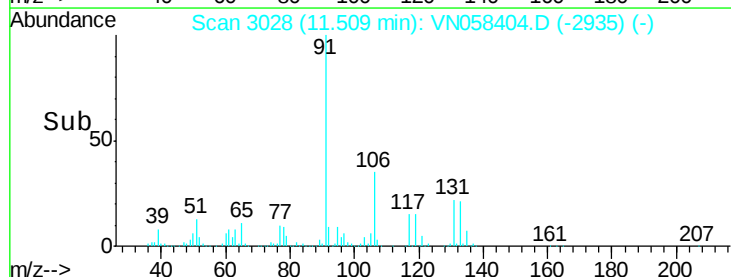
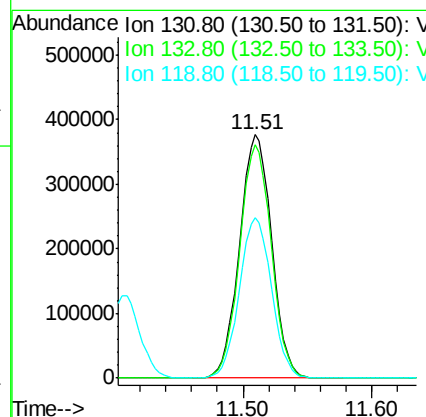
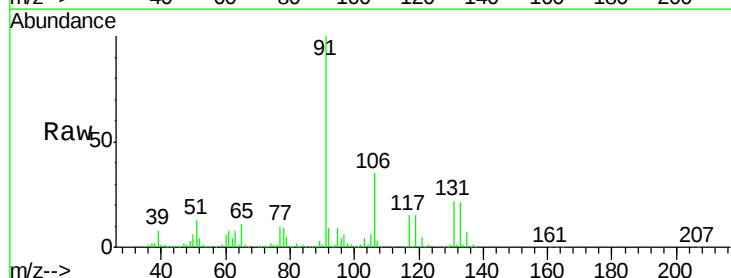
Manual Integrations
APPROVED

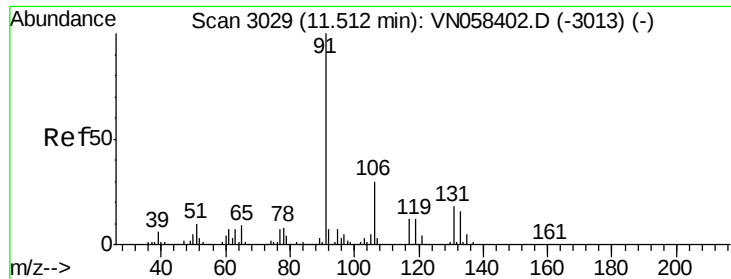
MMDadoda
9/30/2019 10:18:44 AM



#66
1,1,1,2-Tetrachloroethane
Concen: 148.216 ug/l
RT: 11.51 min Scan# 3028
Delta R.T. -0.00 min
Lab File: VN058404.D
Acq: 27 Sep 2019 13:01

Tgt Ion:131 Resp: 652626
Ion Ratio Lower Upper
131 100
133 94.5 47.8 143.3
119 66.0 33.0 99.0





#67

Ethyl Benzene

Concen: 144.268 ug/l

RT: 11.51 min Scan# 3029

Delta R.T. -0.00 min

Lab File: VN058404.D

Acq: 27 Sep 2019 13:01

Instrument :

MSVOA_N

ClientSampleId :

VSTDIC150

Tot Ion: 91 Resp: 3074023

Ion Ratio Lower Upper

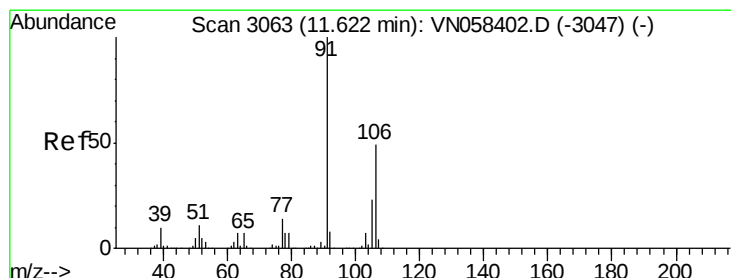
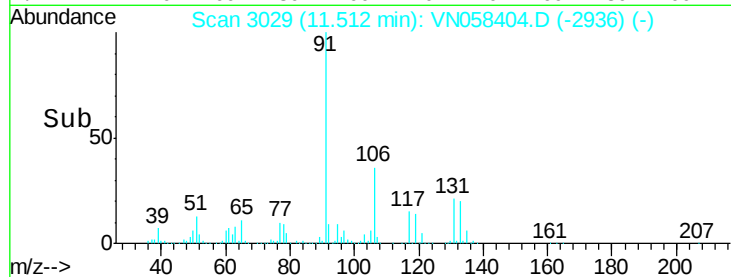
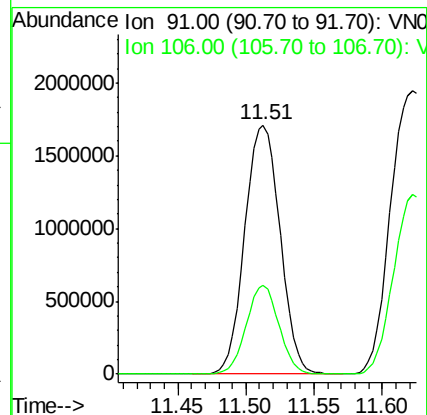
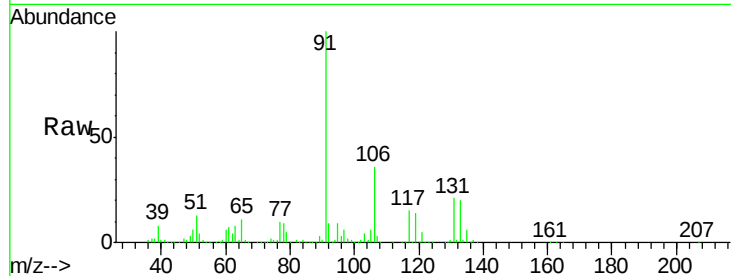
91 100

106 35.8 24.3 36.5

Manual Integrations
APPROVED

MMDadoda

9/30/2019 10:18:44 AM



#68

m/p-Xylenes

Concen: 303.440 ug/l

RT: 11.62 min Scan# 3063

Delta R.T. -0.00 min

Lab File: VN058404.D

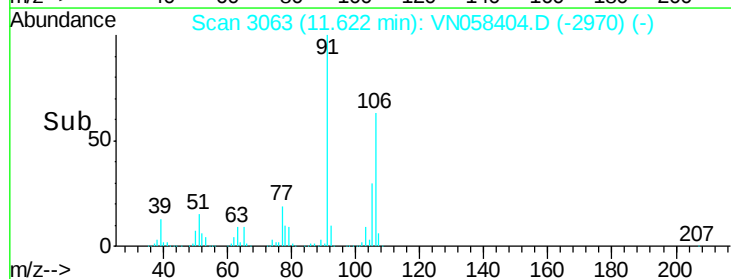
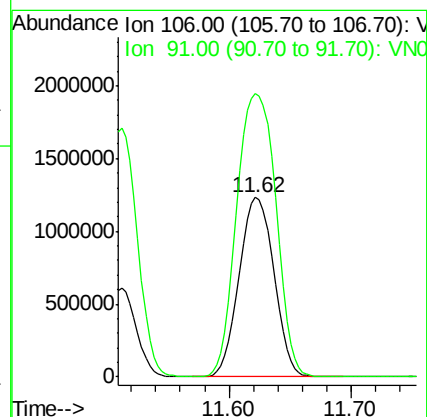
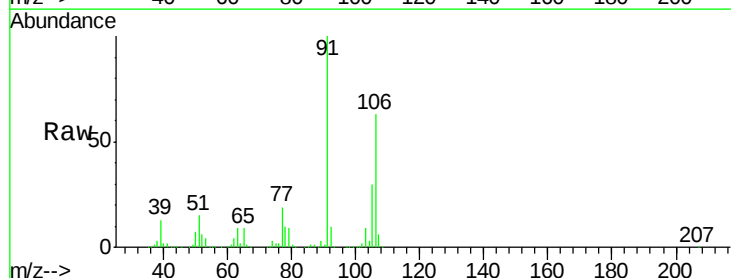
Acq: 27 Sep 2019 13:01

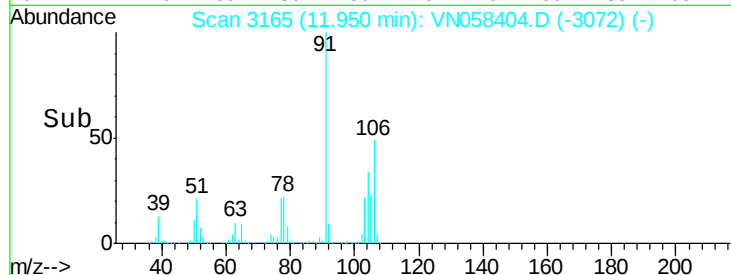
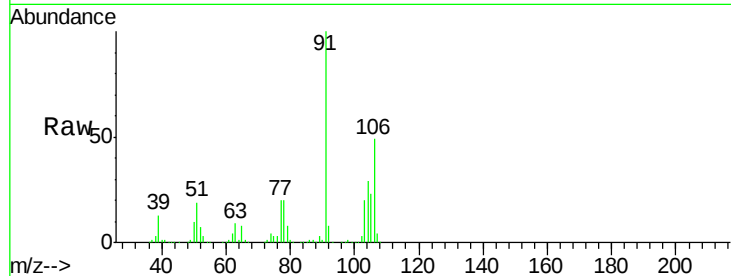
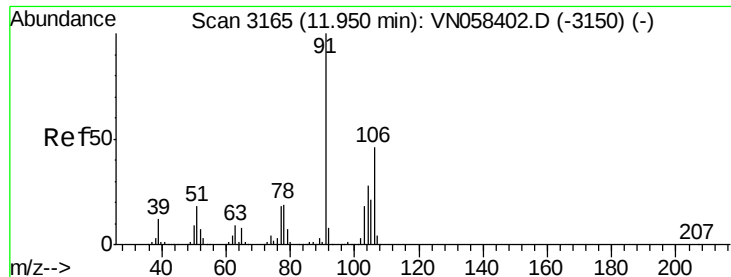
Tgt Ion: 106 Resp: 2438318

Ion Ratio Lower Upper

106 100

91 178.0 165.0 247.4





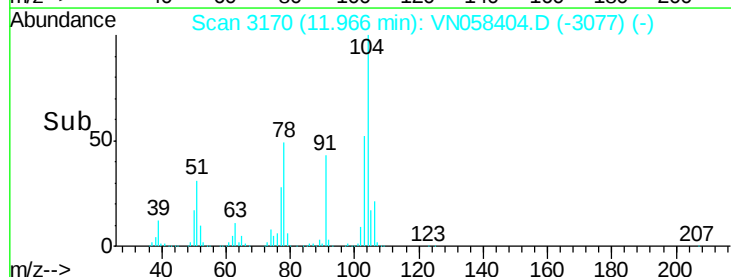
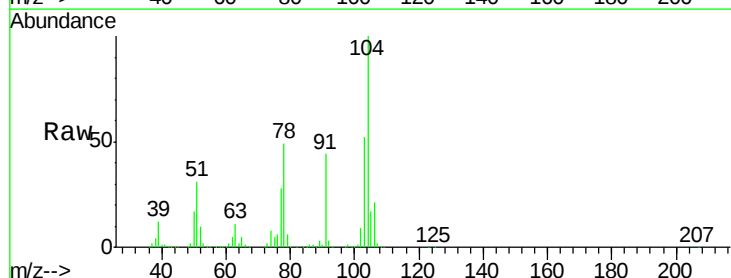
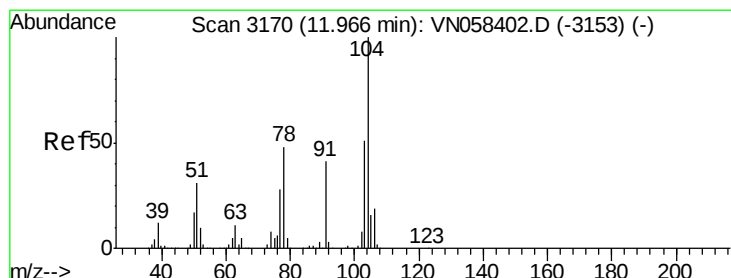
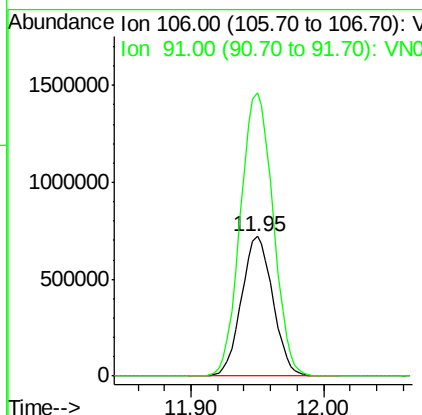
#69
o-Xylene
Concen: 150.621 ug/l
RT: 11.95 min Scan# 3165
Delta R.T. -0.00 min
Lab File: VN058404.D
Acq: 27 Sep 2019 13:01

Tot Ion:106 Resp: 1183930
Ion Ratio Lower Upper
106 100
91 211.8 109.1 327.4

Instrument :
MSVOA_N
ClientSampleId :
VSTDIC150

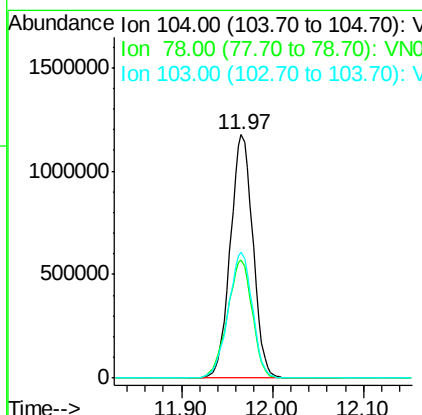
Manual Integrations
APPROVED

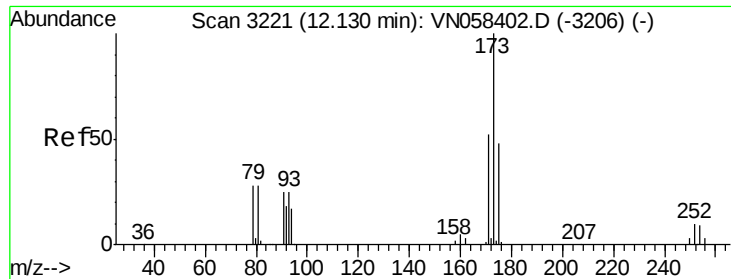
MMDadoda
9/30/2019 10:18:44 AM



#70
Styrene
Concen: 151.222 ug/l
RT: 11.97 min Scan# 3170
Delta R.T. -0.00 min
Lab File: VN058404.D
Acq: 27 Sep 2019 13:01

Tgt Ion:104 Resp: 2025799
Ion Ratio Lower Upper
104 100
78 53.4 42.8 64.2
103 55.5 43.7 65.5





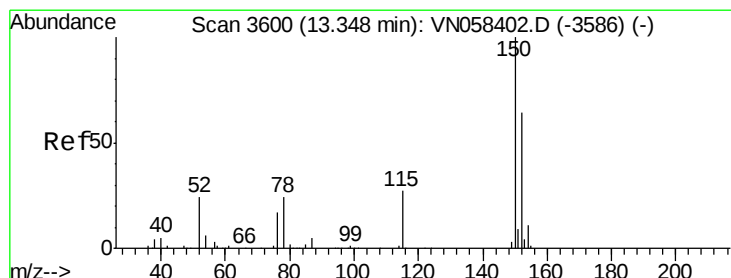
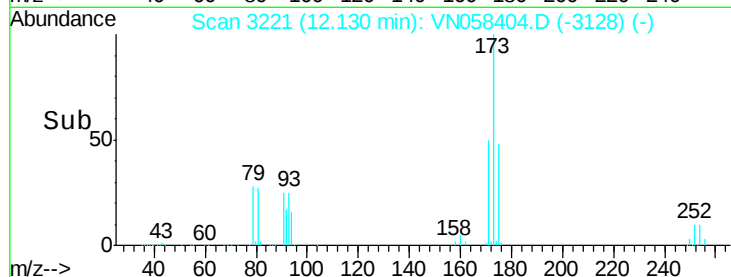
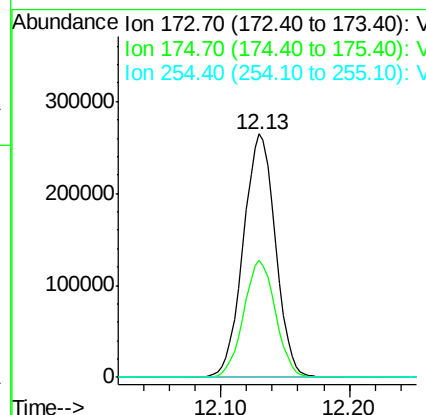
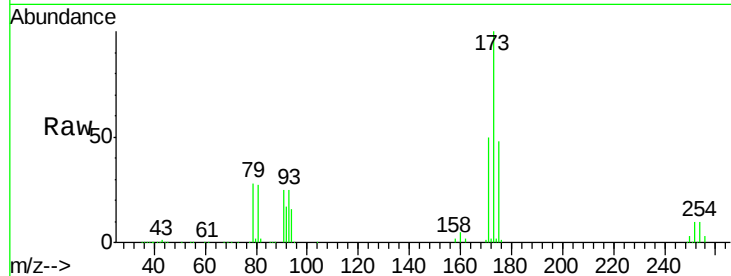
#71
Bromoform
Concen: 165.509 ug/l
RT: 12.13 min Scan# 3221
Delta R.T. -0.00 min
Lab File: VN058404.D
Acq: 27 Sep 2019 13:01

Instrument :
MSVOA_N
ClientSampleId :
VSTDIC150

Tot Ion	Ratio	Lower	Upper
173	100		
175	47.6	24.3	73.0
254	0.0	0.1	0.1

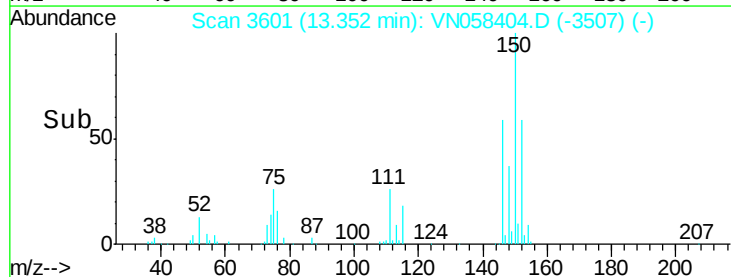
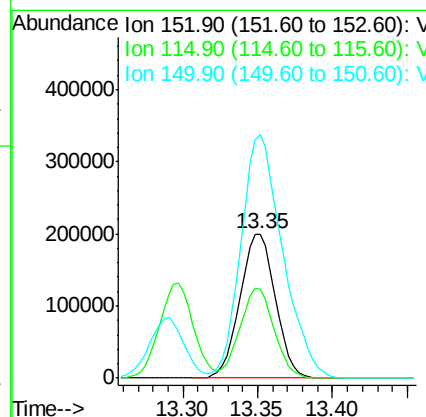
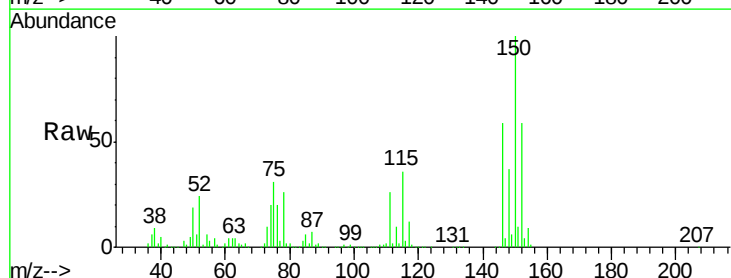
Manual Integrations
APPROVED

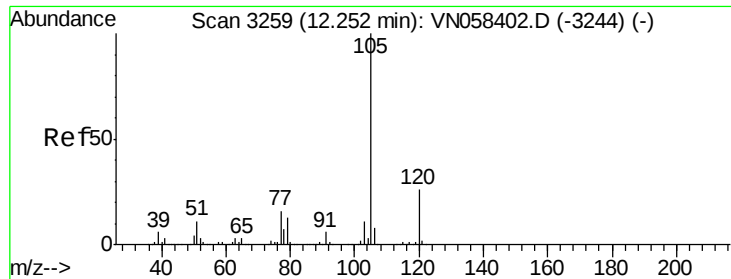
MMDadoda
9/30/2019 10:18:44 AM



#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 13.35 min Scan# 3601
Delta R.T. 0.00 min
Lab File: VN058404.D
Acq: 27 Sep 2019 13:01

Tgt Ion	Ratio	Lower	Upper
152	100		
115	60.4	30.0	90.0
150	199.2	0.0	348.2





#73

Isopropylbenzene

Concen: 140.805 ug/l

RT: 12.25 min Scan# 3259

Delta R.T. -0.00 min

Lab File: VN058404.D

Acq: 27 Sep 2019 13:01

Instrument :

MSVOA_N

ClientSampleId :

VSTDIC150

Tot Ion:105 Resp: 2988771

Ion Ratio Lower Upper

105 100

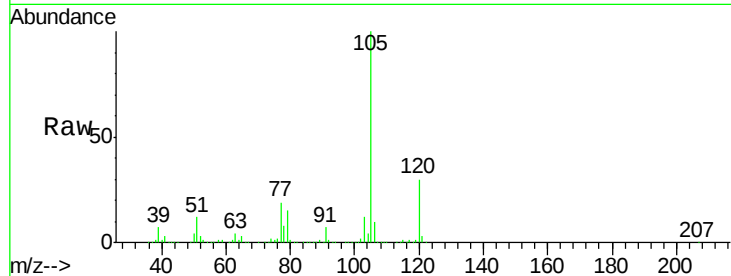
120 27.7 12.8 38.4

Manual Integrations

APPROVED

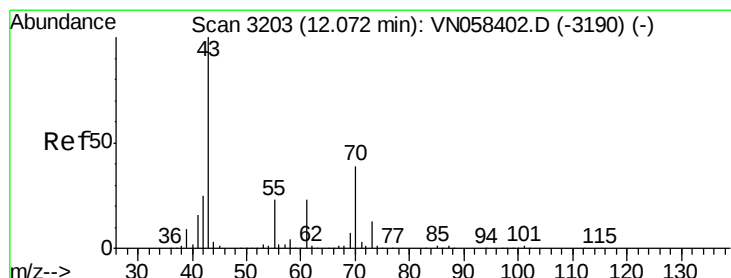
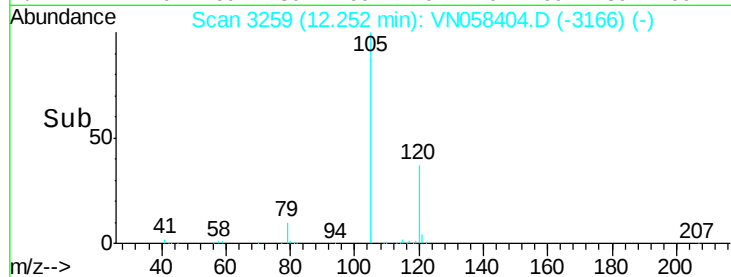
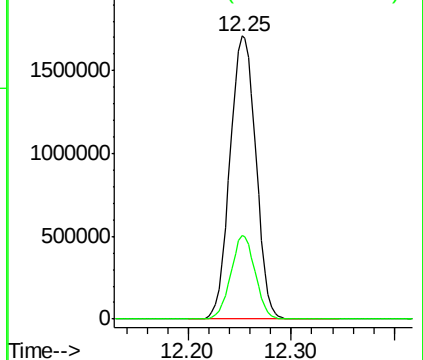
MMDadoda

9/30/2019 10:18:44 AM



Abundance Ion 105.00 (104.70 to 105.70): V

Ion 120.00 (119.70 to 120.70): V



#74

N-ethyl acetate

Concen: 155.212 ug/l

RT: 12.07 min Scan# 3203

Delta R.T. -0.00 min

Lab File: VN058404.D

Acq: 27 Sep 2019 13:01

Tgt Ion: 43 Resp: 1362082

Ion Ratio Lower Upper

43 100

70 38.9 31.4 47.2

55 22.7 18.2 27.4

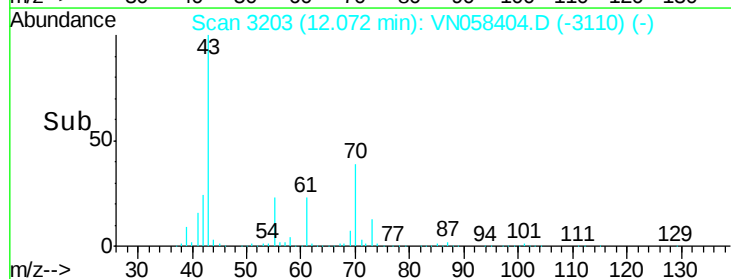
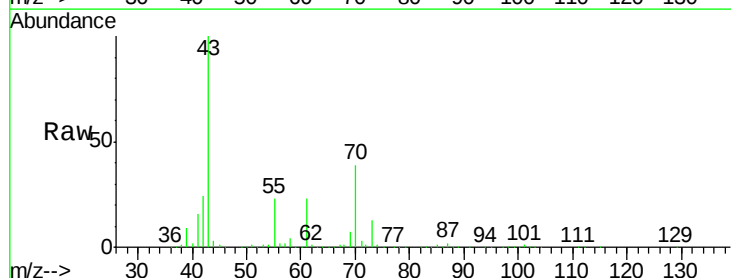
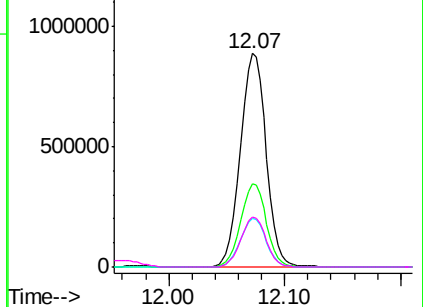
61 23.0 18.3 27.5

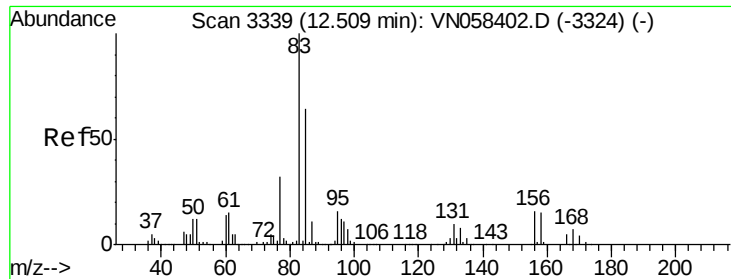
Abundance Ion 43.00 (42.70 to 43.70): V

Ion 70.00 (69.70 to 70.70): V

Ion 55.00 (54.70 to 55.70): V

Ion 61.00 (60.70 to 61.70): V





#75

1,1,2,2-Tetrachloroethane

Concen: 131.776 ug/l

RT: 12.51 min Scan# 3339

Delta R.T. -0.00 min

Lab File: VN058404.D

Acq: 27 Sep 2019 13:01

Instrument :

MSVOA_N

ClientSampleId :

VSTDIC150

Tot Ion: 83 Resp: 912809

Ion Ratio Lower Upper

83 100

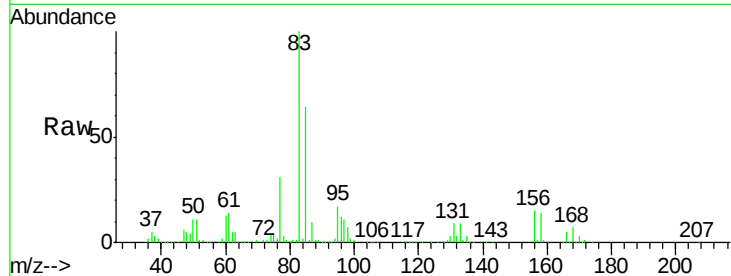
131 9.9 4.9 14.7

85 64.5 32.0 96.0

Manual Integrations
APPROVED

MMDadoda

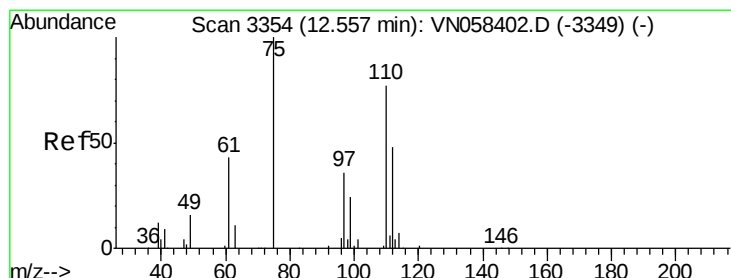
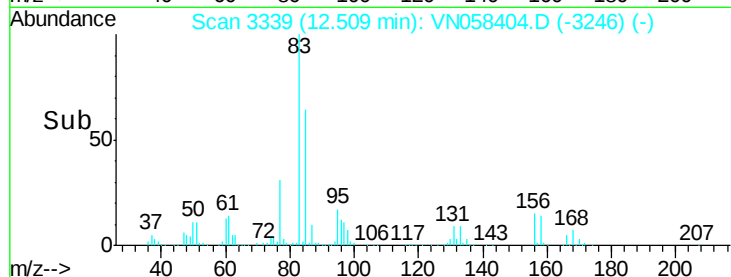
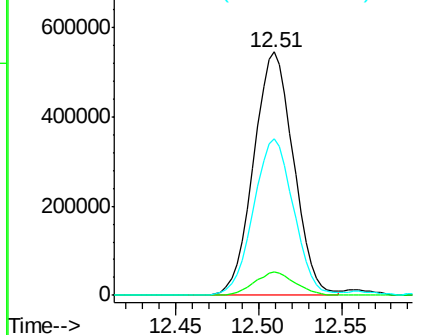
9/30/2019 10:18:44 AM



Abundance Ion 82.90 (82.60 to 83.60): VN0

Ion 130.80 (130.50 to 131.50): VN0

Ion 84.90 (84.60 to 85.60): VN0



#76

1,2,3-Trichloropropane

Concen: 126.190 ug/l m

RT: 12.56 min Scan# 3354

Delta R.T. -0.00 min

Lab File: VN058404.D

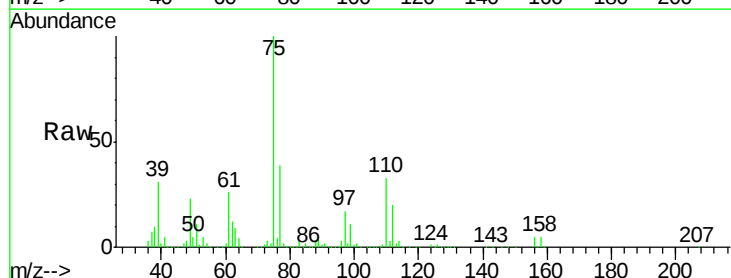
Acq: 27 Sep 2019 13:01

Tgt Ion: 75 Resp: 751354

Ion Ratio Lower Upper

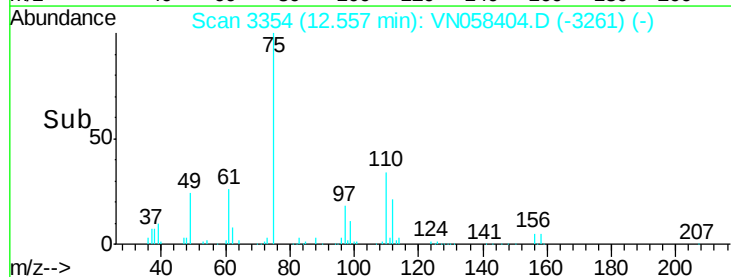
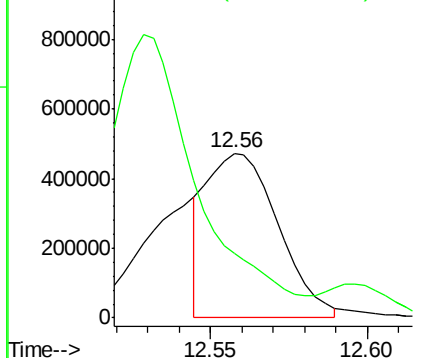
75 100

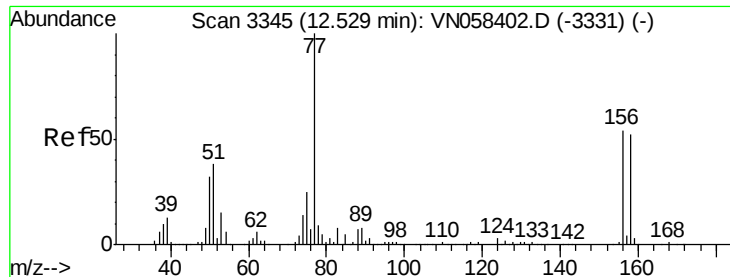
77 0.0 0.0 0.0



Abundance Ion 74.90 (74.60 to 75.60): VN0

Ion 77.00 (76.70 to 77.70): VN0





#77

Bromobenzene

Concen: 139.155 ug/l

RT: 12.53 min Scan# 3345

Delta R.T. -0.00 min

Lab File: VN058404.D

Acq: 27 Sep 2019 13:01

Instrument :

MSVOA_N

ClientSampleId :

VSTDIC150

Tot Ion:156 Resp: 736492

Ion Ratio Lower Upper

156 100

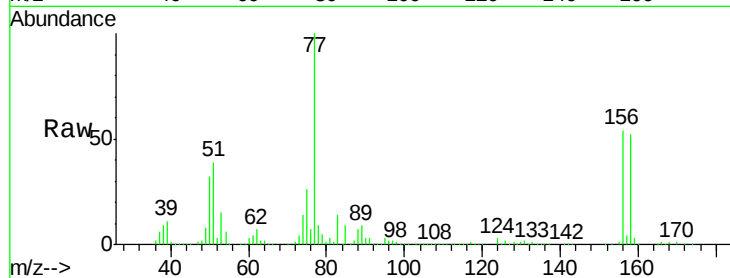
77 223.5 110.0 330.0

158 97.7 47.9 143.8

Manual Integrations
APPROVED

MMDadoda

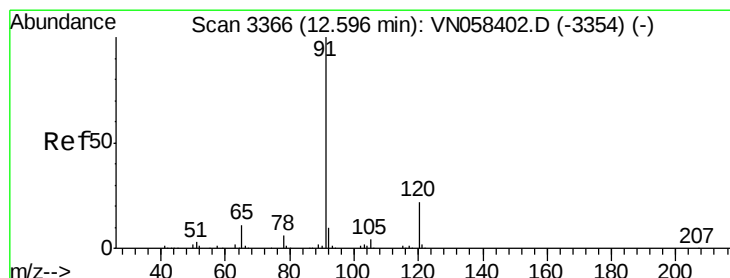
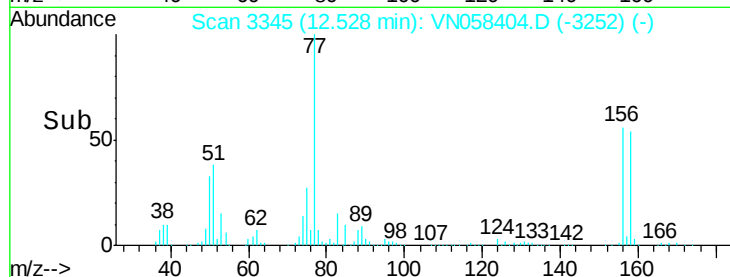
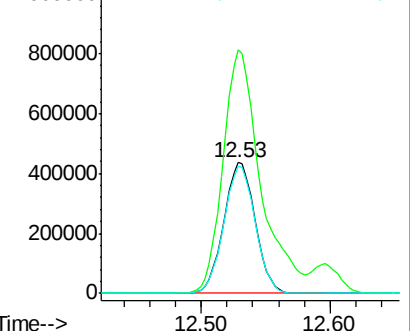
9/30/2019 10:18:44 AM



Abundance Ion 155.80 (155.50 to 156.50): V

Ion 77.00 (76.70 to 77.70): VN0

Ion 157.80 (157.50 to 158.50): V



#78

n-propylbenzene

Concen: 138.279 ug/l

RT: 12.60 min Scan# 3366

Delta R.T. -0.00 min

Lab File: VN058404.D

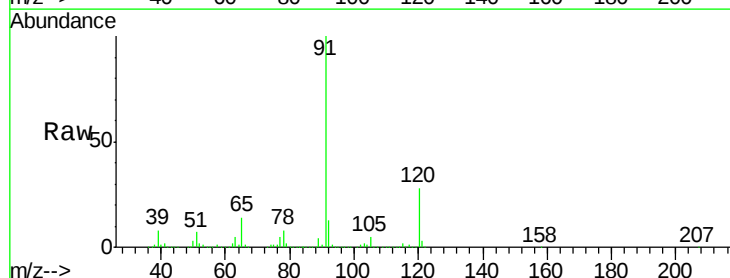
Acq: 27 Sep 2019 13:01

Tgt Ion: 91 Resp: 3337625

Ion Ratio Lower Upper

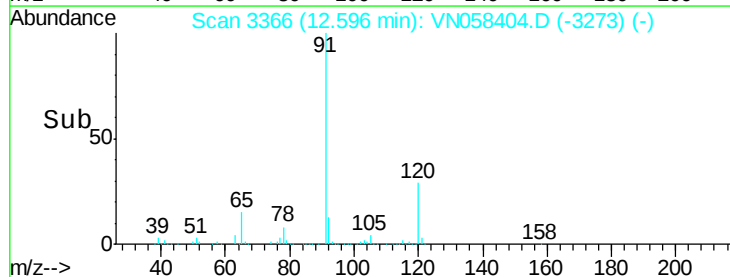
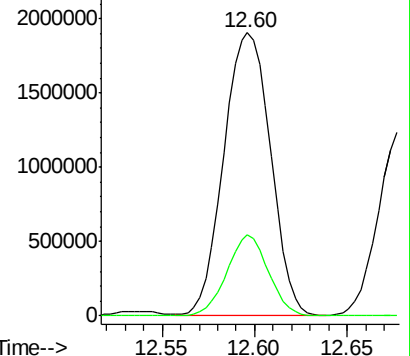
91 100

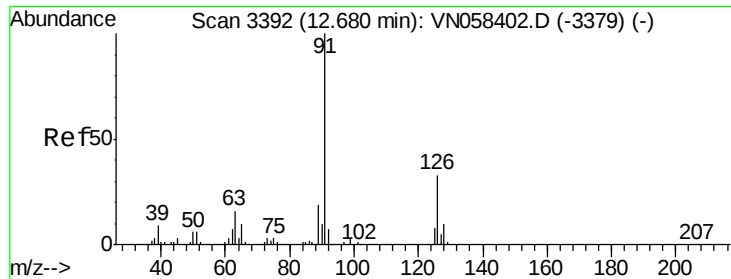
120 25.3 10.9 32.9



Abundance Ion 91.00 (90.70 to 91.70): VN0

Ion 120.00 (119.70 to 120.70): V





#79

2-Chlorotoluene

Concen: 145.130 ug/l

RT: 12.68 min Scan# 3392

Delta R.T. -0.00 min

Lab File: VN058404.D

Acq: 27 Sep 2019 13:01

Instrument :

MSVOA_N

ClientSampleId :

VSTDIC150

Tot Ion: 91 Resp: 2177240

Ion Ratio Lower Upper

91 100

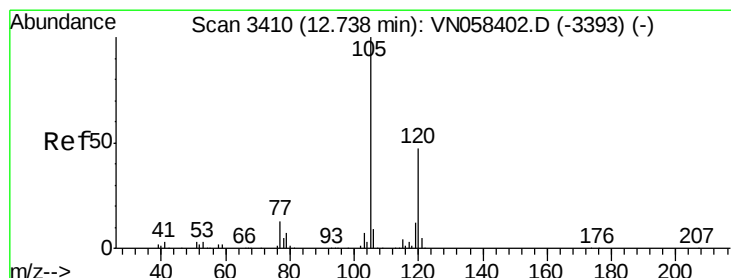
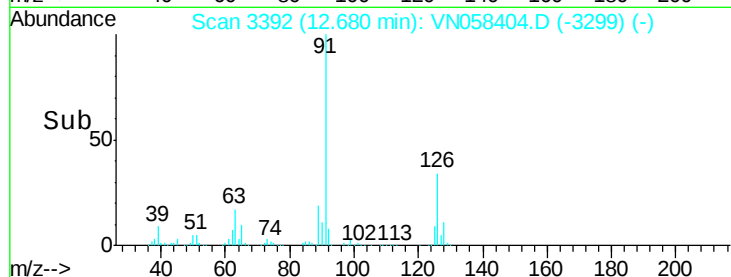
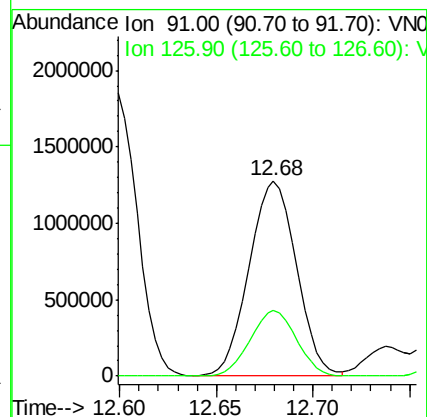
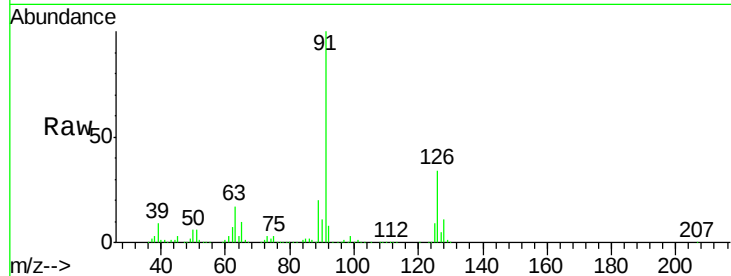
126 32.9 16.2 48.6

Manual Integrations

APPROVED

MMDadoda

9/30/2019 10:18:44 AM



#80

1,3,5-Trimethylbenzene

Concen: 145.230 ug/l

RT: 12.74 min Scan# 3410

Delta R.T. -0.00 min

Lab File: VN058404.D

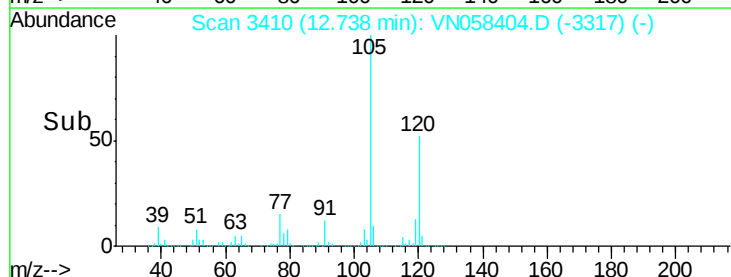
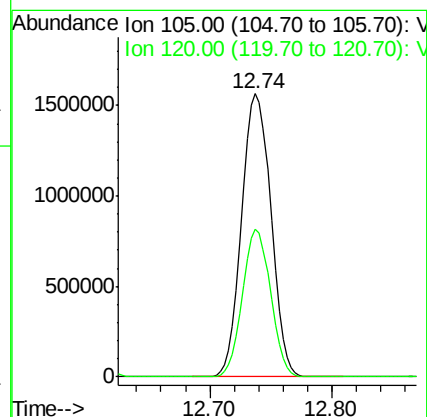
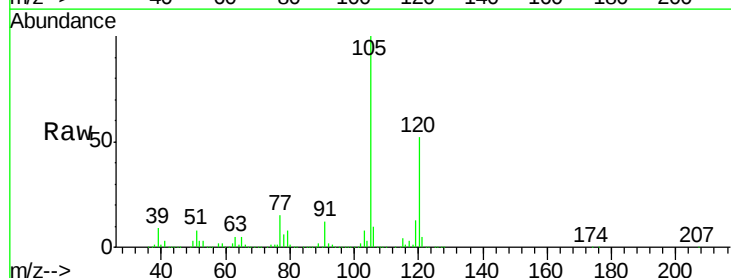
Acq: 27 Sep 2019 13:01

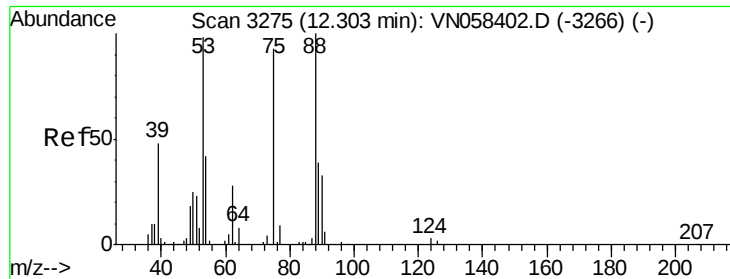
Tgt Ion:105 Resp: 2598303

Ion Ratio Lower Upper

105 100

120 50.0 23.5 70.6





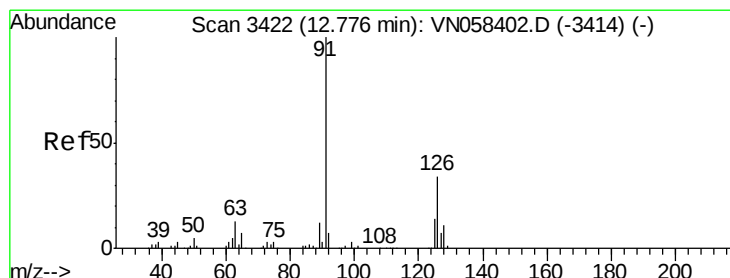
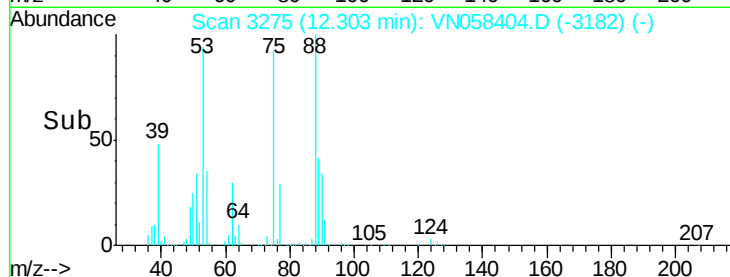
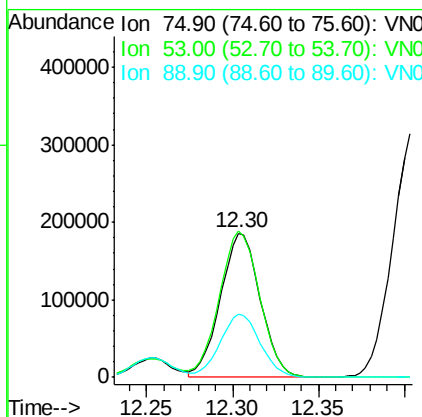
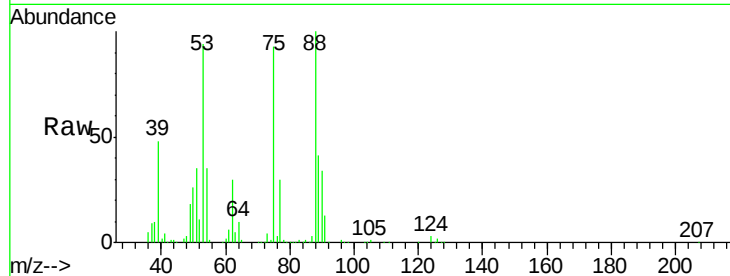
#81
trans-1,4-Dichloro-2-butene
Concen: 162.794 ug/l
RT: 12.30 min Scan# 3275
Delta R.T. -0.00 min
Lab File: VN058404.D
Acq: 27 Sep 2019 13:01

Instrument :
MSVOA_N
ClientSampleId :
VSTDIC150

Tot Ion	Ratio	Lower	Upper
75	100		
53	104.2	85.4	128.0
89	44.6	35.0	52.4

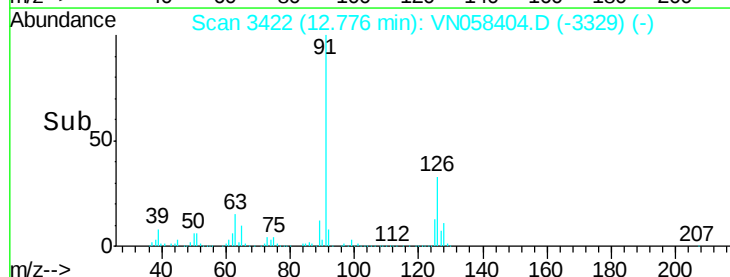
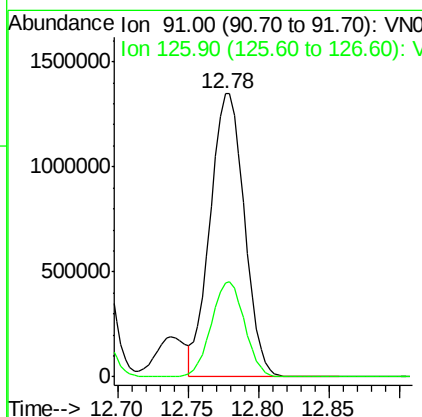
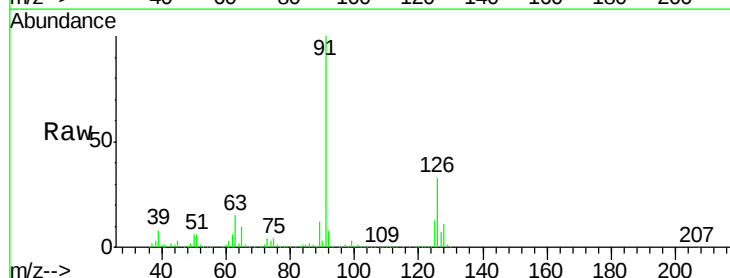
Manual Integrations
APPROVED

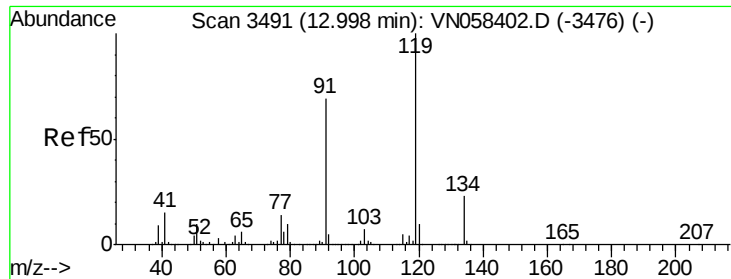
MMDadoda
9/30/2019 10:18:44 AM



#82
4-Chlorotoluene
Concen: 144.458 ug/l
RT: 12.78 min Scan# 3422
Delta R.T. -0.00 min
Lab File: VN058404.D
Acq: 27 Sep 2019 13:01

Tgt Ion	Ratio	Lower	Upper
91	100		
126	32.8	15.9	47.7





#83

tert-Butylbenzene

Concen: 139.565 ug/l

RT: 13.00 min Scan# 3491

Delta R.T. -0.00 min

Lab File: VN058404.D

Acq: 27 Sep 2019 13:01

Instrument :

MSVOA_N

ClientSampled :

VSTDIC150

Tot Ion:119 Resp: 2205347

Ion Ratio Lower Upper

119 100

91 69.4 34.2 102.6

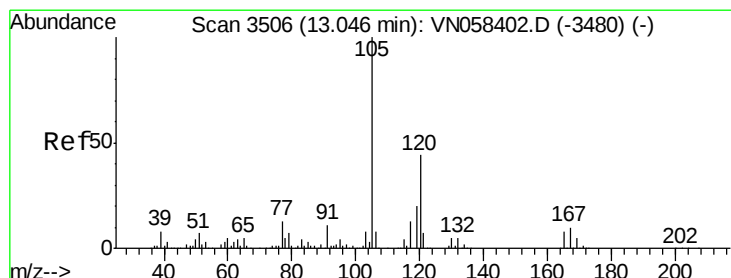
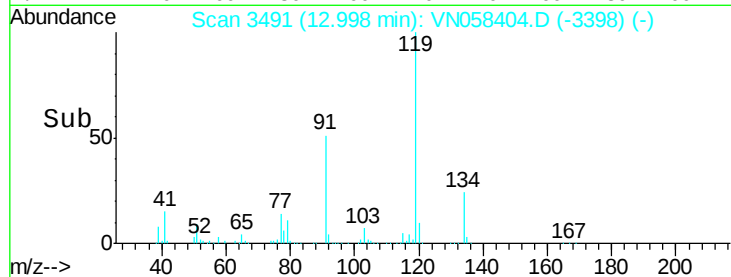
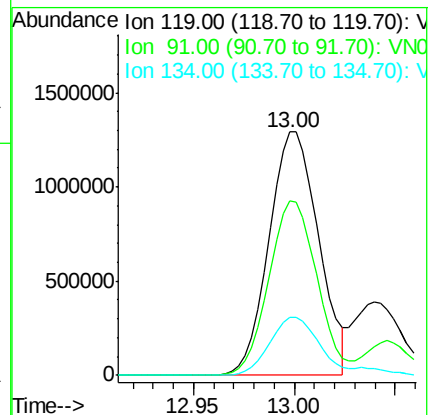
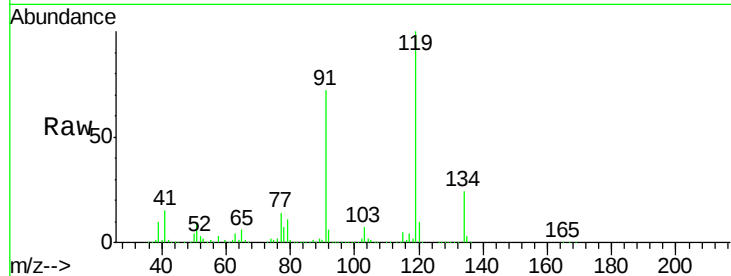
134 25.9 11.6 34.8

Manual Integrations

APPROVED

MMDadoda

9/30/2019 10:18:44 AM



#84

1,2,4-Trimethylbenzene

Concen: 144.872 ug/l

RT: 13.05 min Scan# 3506

Delta R.T. -0.00 min

Lab File: VN058404.D

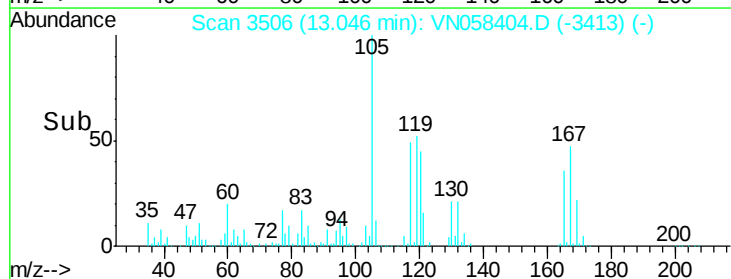
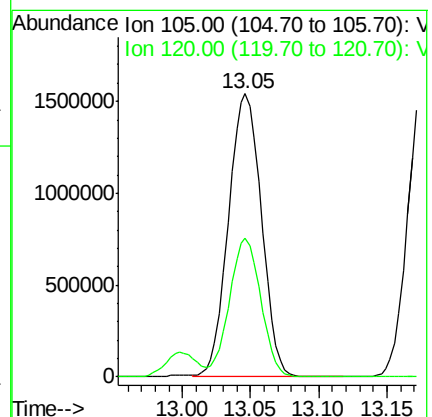
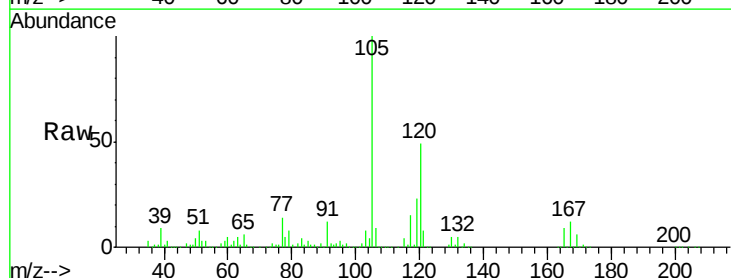
Acq: 27 Sep 2019 13:01

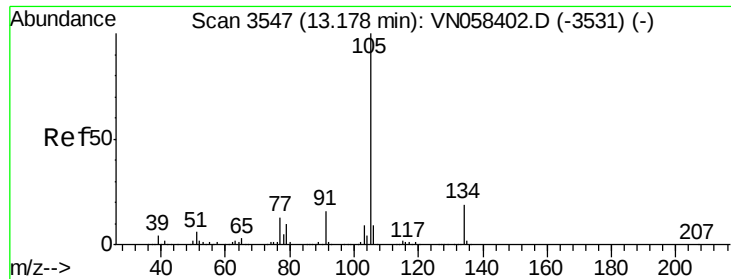
Tgt Ion:105 Resp: 2580785

Ion Ratio Lower Upper

105 100

120 46.8 21.7 65.1





#85

sec-Butylbenzene

Concen: 138.527 ug/l

RT: 13.18 min Scan# 3547

Delta R.T. -0.00 min

Lab File: VN058404.D

Acq: 27 Sep 2019 13:01

Instrument :

MSVOA_N

ClientSampleId :

VSTDIC150

Tot Ion:105 Resp: 2862311

Ion Ratio Lower Upper

105 100

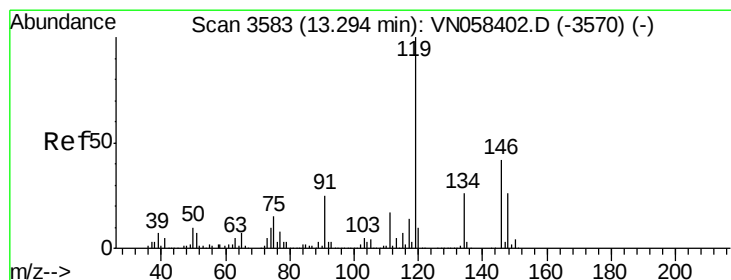
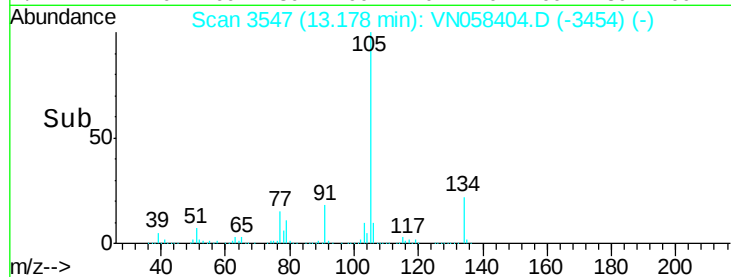
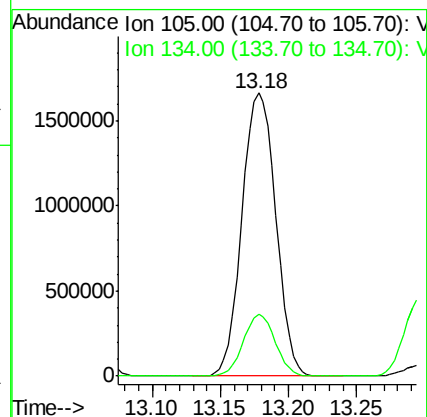
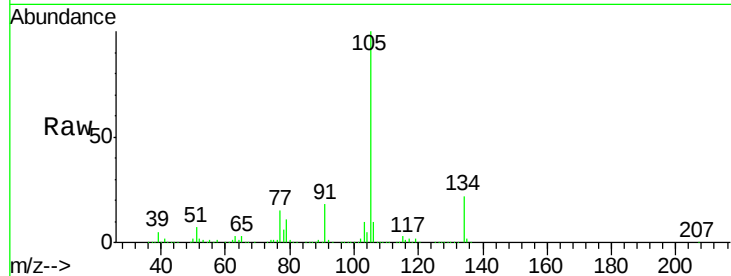
134 20.6 9.4 28.2

Manual Integrations

APPROVED

MMDadoda

9/30/2019 10:18:44 AM



#86

p-Isopropyltoluene

Concen: 142.659 ug/l

RT: 13.30 min Scan# 3584

Delta R.T. 0.00 min

Lab File: VN058404.D

Acq: 27 Sep 2019 13:01

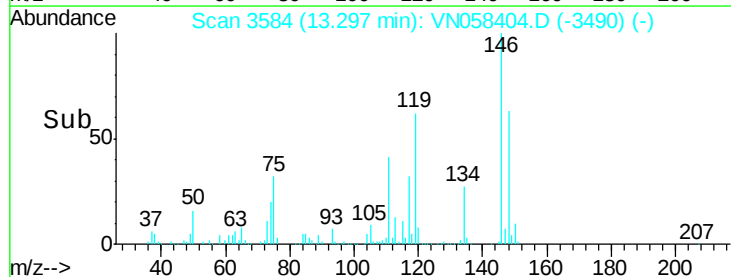
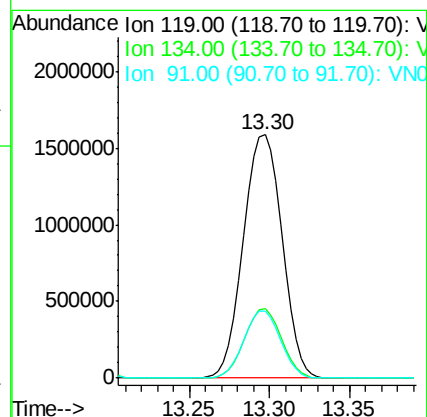
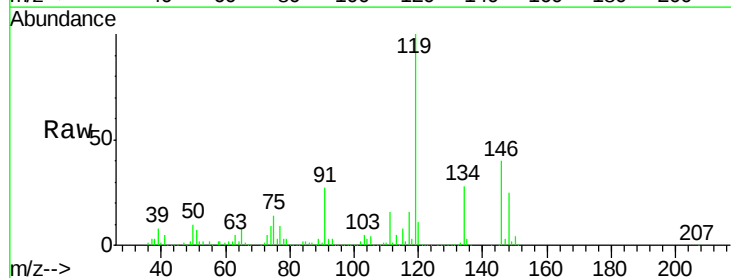
Tgt Ion:119 Resp: 2614782

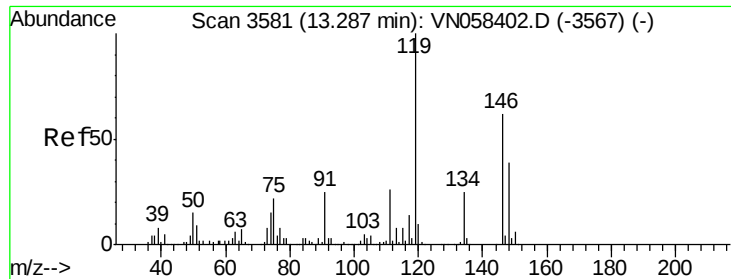
Ion Ratio Lower Upper

119 100

134 27.1 13.0 39.0

91 26.1 12.4 37.0





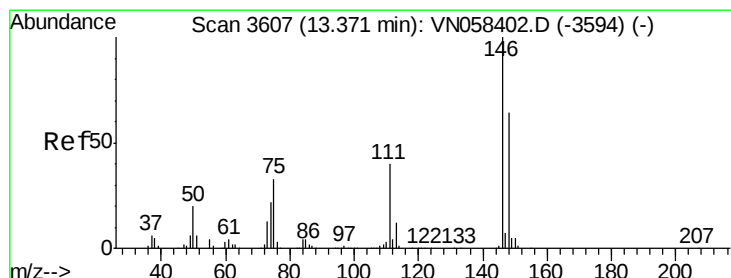
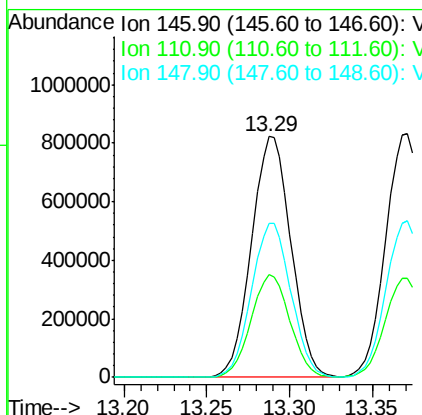
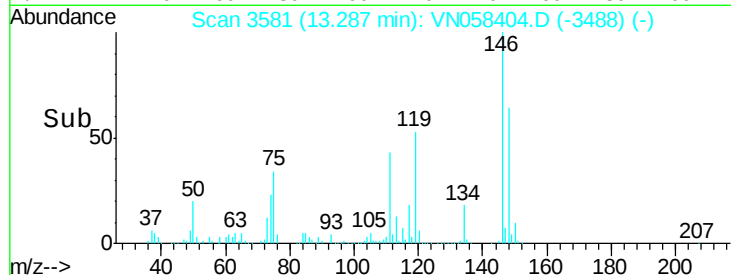
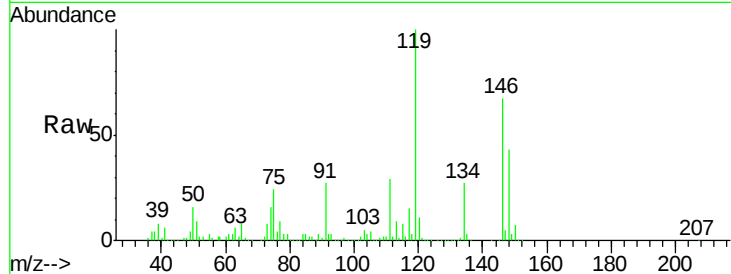
#87
 1,3-Dichlorobenzene
 Concen: 141.975 ug/l
 RT: 13.29 min Scan# 3581
 Delta R.T. -0.00 min
 Lab File: VN058404.D
 Acq: 27 Sep 2019 13:01

Instrument :
 MSVOA_N
 ClientSampled :
 VSTDIC150

Tot Ion:146 Resp: 1362662
 Ion Ratio Lower Upper
 146 100
 111 41.9 20.8 62.4
 148 63.9 31.4 94.3

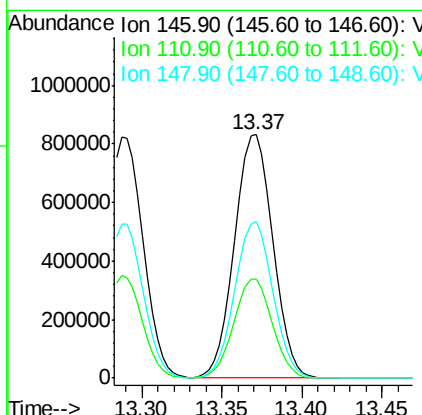
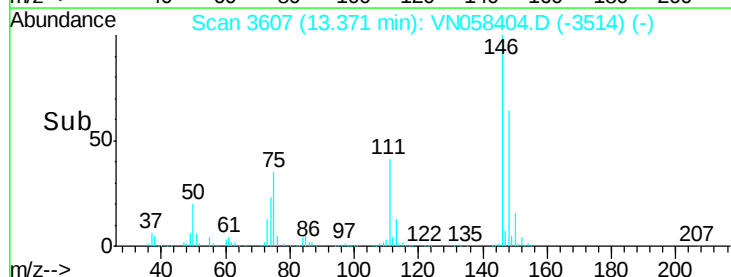
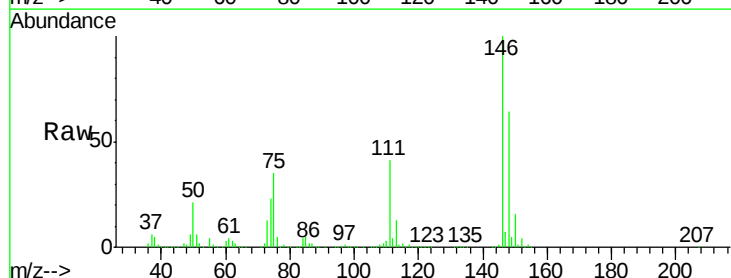
Manual Integrations
 APPROVED

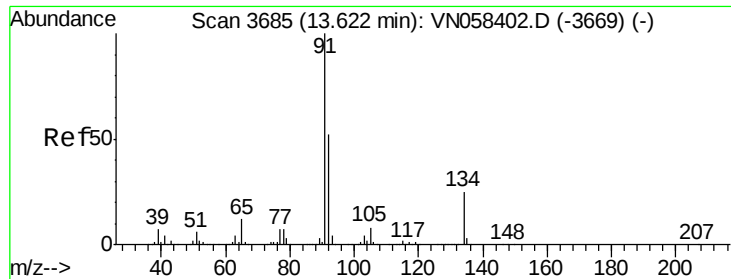
MMDadoda
 9/30/2019 10:18:44 AM



#88
 1,4-Dichlorobenzene
 Concen: 139.496 ug/l
 RT: 13.37 min Scan# 3607
 Delta R.T. -0.00 min
 Lab File: VN058404.D
 Acq: 27 Sep 2019 13:01

Tgt Ion:146 Resp: 1362917
 Ion Ratio Lower Upper
 146 100
 111 40.6 20.5 61.6
 148 63.6 31.5 94.5





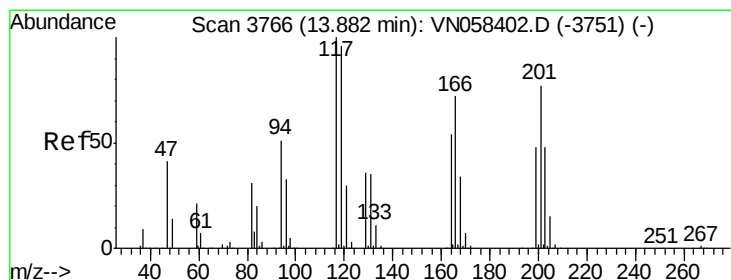
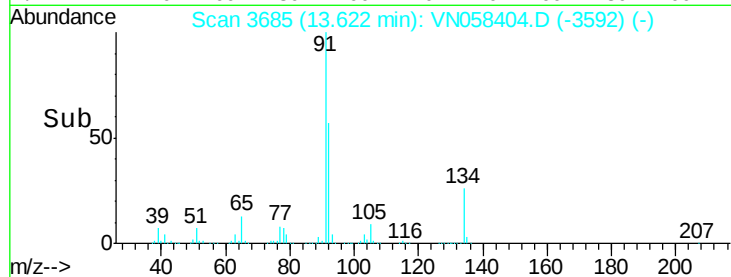
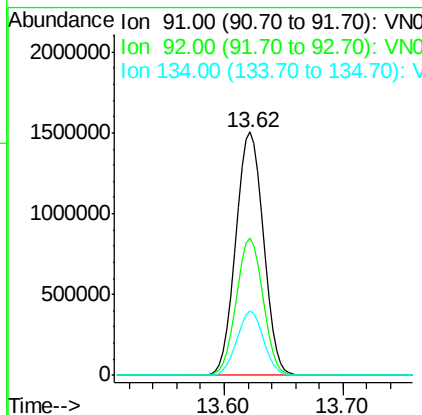
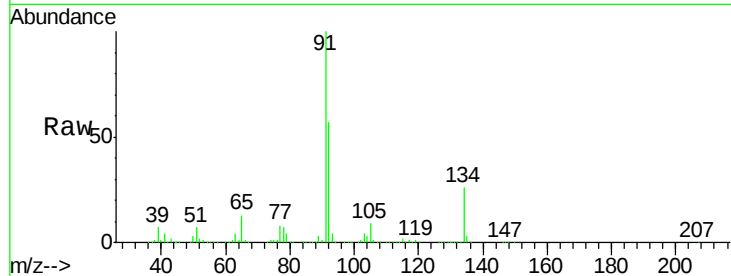
#89
n-Butylbenzene
Concen: 141.827 ug/l
RT: 13.62 min Scan# 3685
Delta R.T. -0.00 min
Lab File: VN058404.D
Acq: 27 Sep 2019 13:01

Instrument :
MSVOA_N
ClientSampleId :
VSTDIC150

Tot Ion	Ratio	Lower	Upper
91	100		
92	54.5	25.7	77.1
134	25.3	12.2	36.6

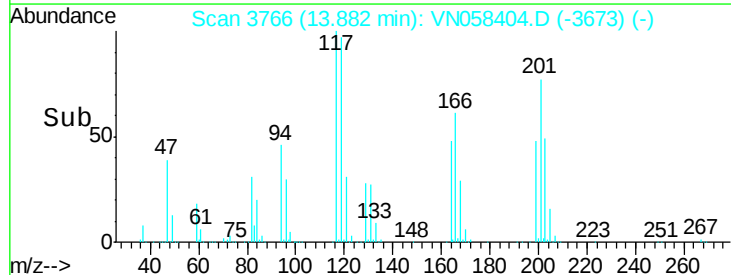
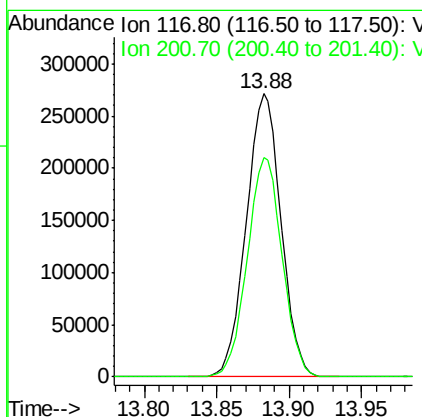
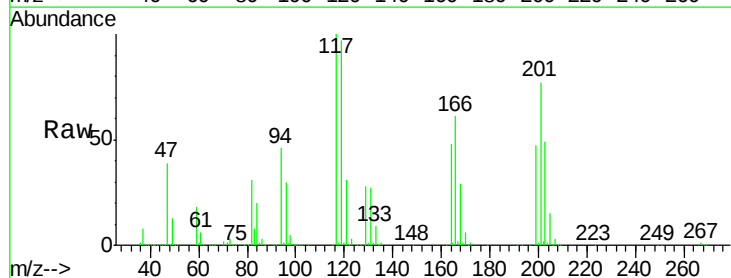
Manual Integrations
APPROVED

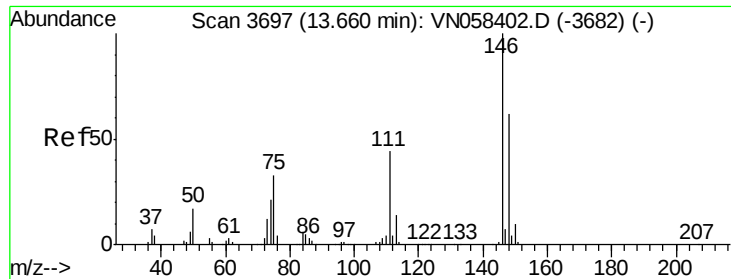
MMDadoda
9/30/2019 10:18:44 AM



#90
Hexachloroethane
Concen: 159.233 ug/l
RT: 13.88 min Scan# 3766
Delta R.T. -0.00 min
Lab File: VN058404.D
Acq: 27 Sep 2019 13:01

Tgt Ion	Ratio	Lower	Upper
117	100		
201	77.9	38.6	116.0





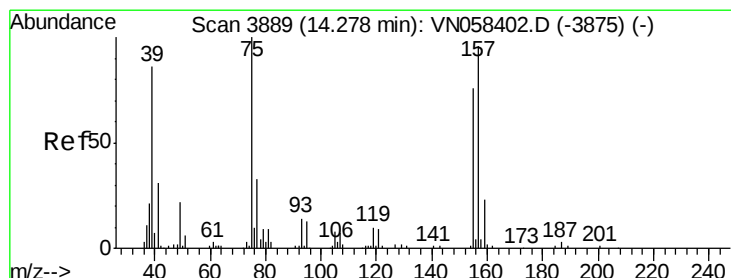
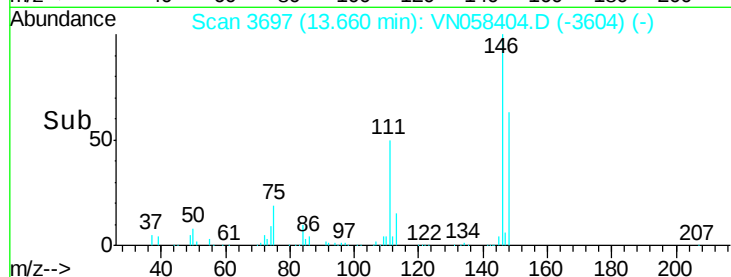
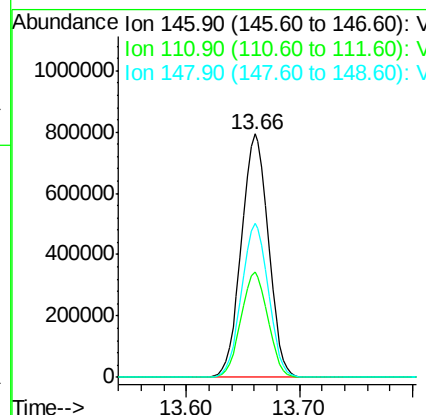
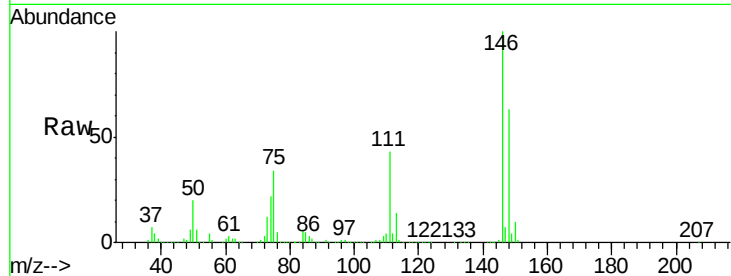
#91
 1,2-Dichlorobenzene
 Concen: 138.831 ug/l
 RT: 13.66 min Scan# 3697
 Delta R.T. -0.00 min
 Lab File: VN058404.D
 Acq: 27 Sep 2019 13:01

Instrument :
 MSVOA_N
 ClientSampleId :
 VSTDIC150

Tot Ion	Ratio	Lower	Upper
146	100		
111	43.0	21.8	65.3
148	63.0	31.5	94.5

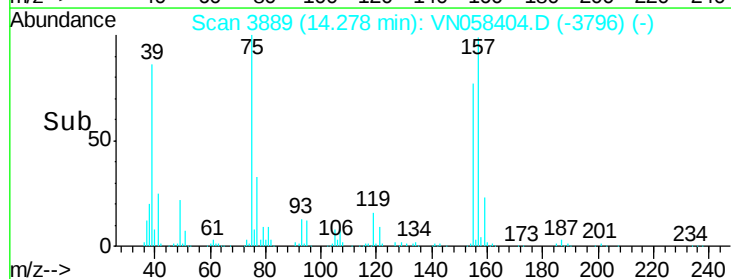
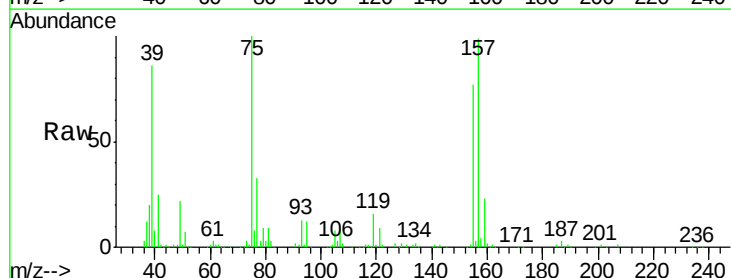
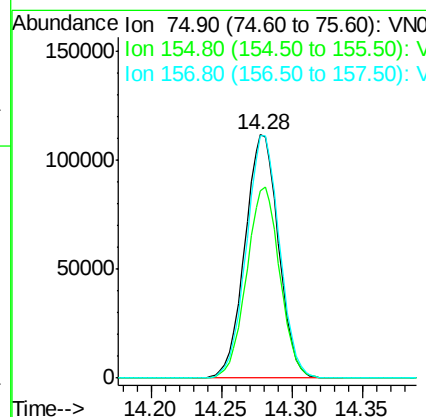
Manual Integrations
 APPROVED

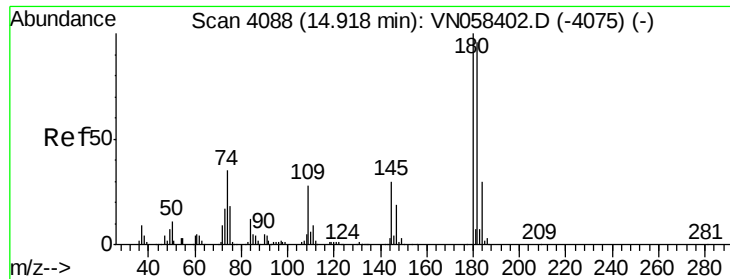
MMDadoda
 9/30/2019 10:18:44 AM



#92
 1,2-Dibromo-3-Chloropropane
 Concen: 149.753 ug/l
 RT: 14.28 min Scan# 3889
 Delta R.T. -0.00 min
 Lab File: VN058404.D
 Acq: 27 Sep 2019 13:01

Tgt Ion	Ratio	Lower	Upper
75	100		
155	77.7	39.2	117.6
157	98.4	48.7	146.1





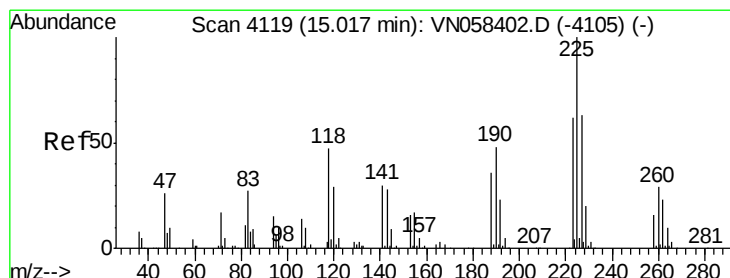
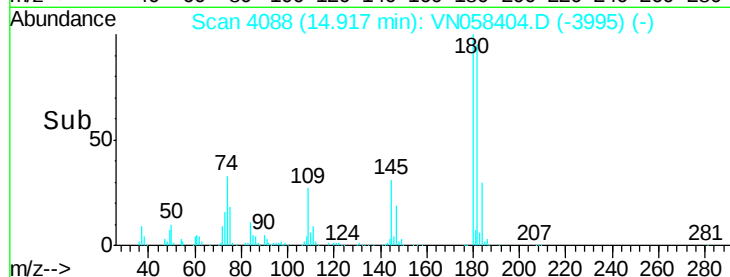
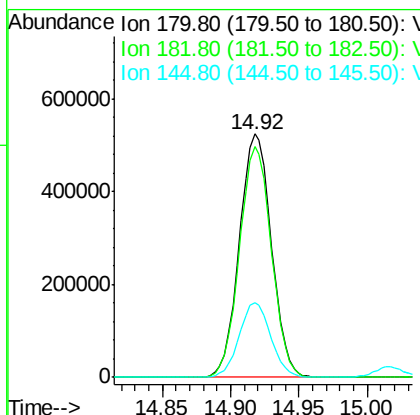
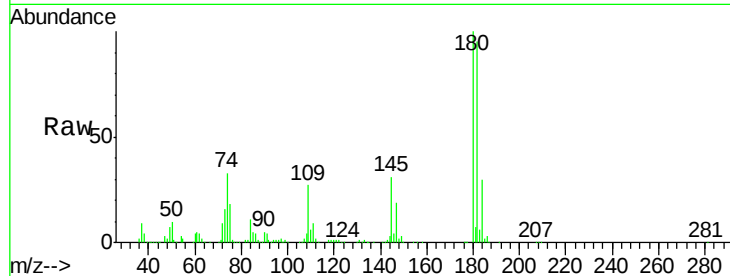
#93
 1,2,4-Trichlorobenzene
 Concen: 142.118 ug/l
 RT: 14.92 min Scan# 4088
 Delta R.T. -0.00 min
 Lab File: VN058404.D
 Acq: 27 Sep 2019 13:01

Instrument :
 MSVOA_N
 ClientSampleId :
 VSTDIC150

Tot Ion	Ratio	Resp	Lower	Upper
180	100	853489		
182	94.5	47.4	142.3	
145	30.3	15.3	45.9	

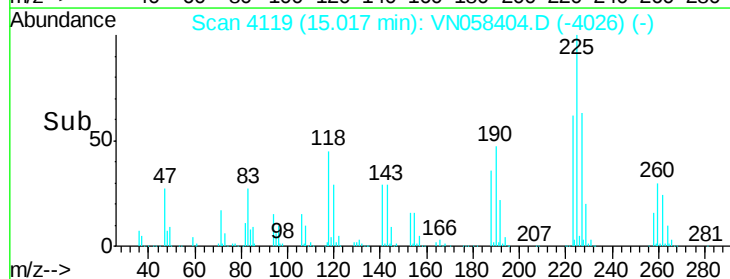
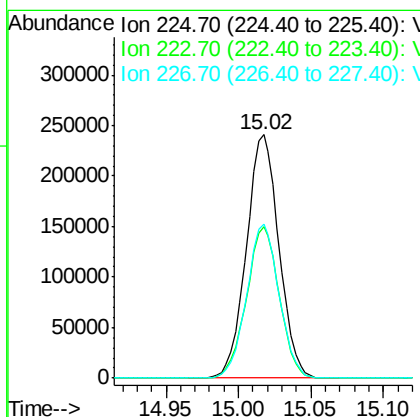
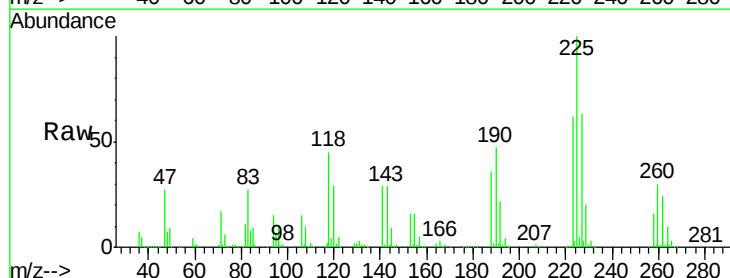
Manual Integrations
 APPROVED

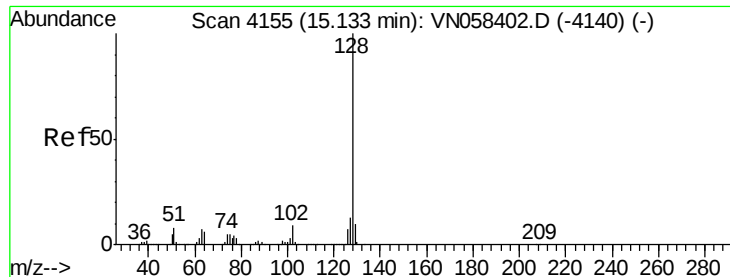
MMDadoda
 9/30/2019 10:18:44 AM



#94
 Hexachlorobutadiene
 Concen: 129.354 ug/l
 RT: 15.02 min Scan# 4119
 Delta R.T. -0.00 min
 Lab File: VN058404.D
 Acq: 27 Sep 2019 13:01

Tgt Ion	Ratio	Resp	Lower	Upper
225	100	376132		
223	62.5	31.1	93.5	
227	62.9	31.4	94.2	





#95

Naphthalene

Concen: 148.822 ug/l

RT: 15.13 min Scan# 4155

Delta R.T. -0.00 min

Lab File: VN058404.D

Acq: 27 Sep 2019 13:01

Instrument :

MSVOA_N

ClientSampleId :

VSTDIC150

Tot Ion:128 Resp: 2310917

Ion Ratio Lower Upper

128 100

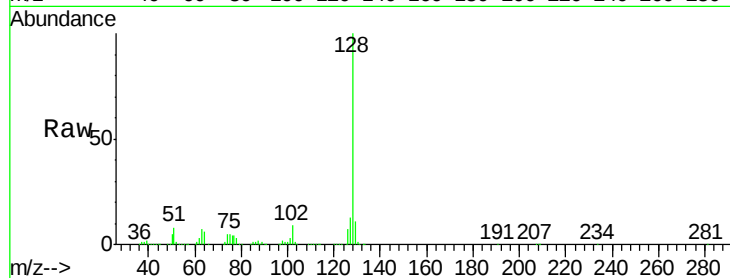
127 12.9 10.2 15.4

129 10.9 8.3 12.5

Manual Integrations
APPROVED

MMDadoda

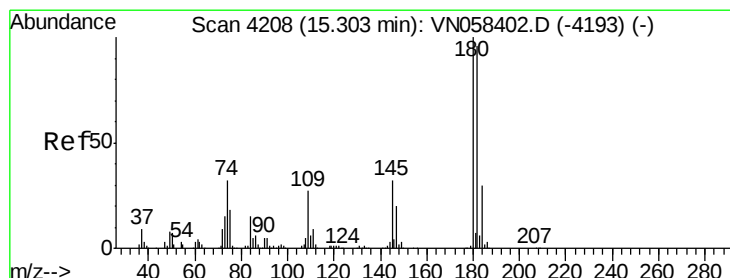
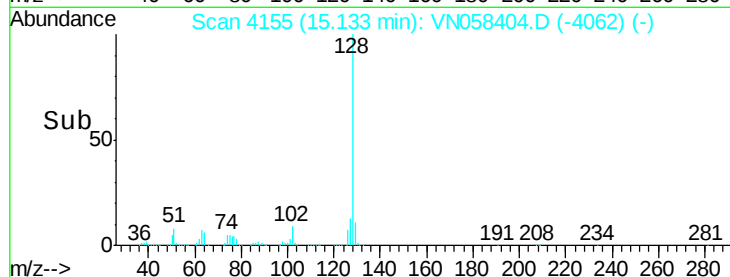
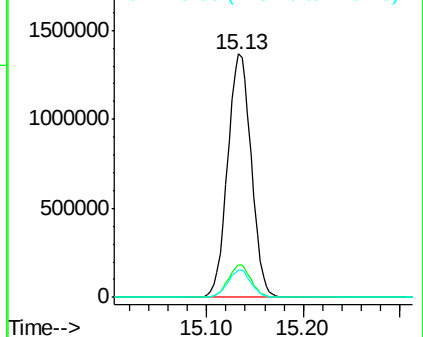
9/30/2019 10:18:44 AM



Abundance Ion 128.00 (127.70 to 128.70): V

Ion 127.00 (126.70 to 127.70): V

Ion 129.00 (128.70 to 129.70): V



#96

1,2,3-Trichlorobenzene

Concen: 140.763 ug/l

RT: 15.30 min Scan# 4208

Delta R.T. -0.00 min

Lab File: VN058404.D

Acq: 27 Sep 2019 13:01

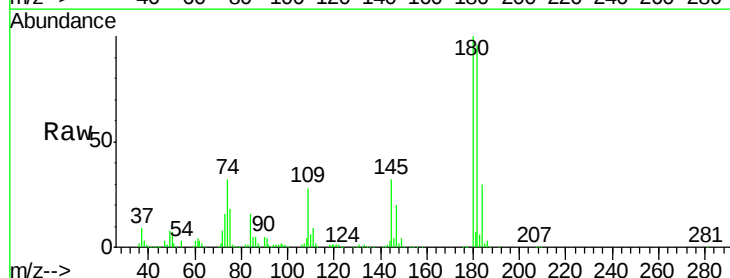
Tgt Ion:180 Resp: 793988

Ion Ratio Lower Upper

180 100

182 95.2 48.3 144.9

145 32.1 16.1 48.3



Abundance Ion 179.80 (179.50 to 180.50): V

Ion 181.80 (181.50 to 182.50): V

Ion 144.90 (144.60 to 145.60): V

