

Data Path : Z:\VOASRV\HPCHEM1\MSVOA N\DATA\VN021519\
 Data File : VN053813.D
 Acq On : 15 Feb 2019 21:06
 Operator : JC/SP
 Sample : VSTDCCC050
 Misc : 5.00mL/MSVOA N/WATER
 ALS Vial : 25 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleID :
 VSTDCCC050EC

Manual Integrations
 APPROVED

MMDadoda
 2/18/2019 9:48:52 AM

Quant Time: Feb 16 00:21:14 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_N\METHODS\82N013019W.M
 Quant Title : SW846 8260
 QLast Update : Fri Feb 01 09:11:52 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	7.67	168	635227	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	8.59	114	962814	50.00	ug/l	0.00
63) Chlorobenzene-d5	11.41	117	849570	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.34	152	413729	50.00	ug/l	0.00

System Monitoring Compounds

33) 1,2-Dichloroethane-d4	8.03	65	323097	50.70	ug/l	0.00
Spiked Amount	50.000		Recovery	=	101.40%	
35) Dibromofluoromethane	7.59	113	313735	51.57	ug/l	0.00
Spiked Amount	50.000		Recovery	=	103.14%	
50) Toluene-d8	10.09	98	1139719	49.89	ug/l	0.00
Spiked Amount	50.000		Recovery	=	99.78%	
62) 4-Bromofluorobenzene	12.40	95	395241	51.88	ug/l	0.00
Spiked Amount	50.000		Recovery	=	103.76%	

Target Compounds

						Qvalue
2) Dichlorodifluoromethane	1.85	85	287439	40.204	ug/l	98
3) Chloromethane	2.06	50	331433	43.948	ug/l	97
4) Vinyl Chloride	2.19	62	358495	48.970	ug/l	99
5) Bromomethane	2.57	94	240998	50.348	ug/l	98
6) Chloroethane	2.71	64	224764	53.727	ug/l	99
7) Trichlorofluoromethane	3.02	101	491957	49.555	ug/l	99
8) Diethyl Ether	3.41	74	186078	51.324	ug/l	94
9) 1,1,2-Trichlorotrifluoroet	3.76	101	302012	49.190	ug/l	99
10) Methyl Iodide	3.96	142	454575	47.171	ug/l	100
11) Tert butyl alcohol	4.78	59	95226	252.493	ug/l	100
12) 1,1-Dichloroethene	3.74	96	282822	48.080	ug/l	98
13) Acrolein	3.61	56	44723	217.801	ug/l	99
14) Allyl chloride	4.33	41	450339	48.082	ug/l	99
15) Acrylonitrile	4.99	53	513807	252.360	ug/l	100
16) Acetone	3.82	43	358539	219.347	ug/l	99
17) Carbon Disulfide	4.06	76	758598	41.416	ug/l	100
18) Methyl Acetate	4.32	43	288746	59.648	ug/l	98
19) Methyl tert-butyl Ether	5.05	73	769347	51.592	ug/l	98
20) Methylene Chloride	4.55	84	330726	48.227	ug/l	98
21) trans-1,2-Dichloroethene	5.05	96	286368	45.124	ug/l	97
22) Diisopropyl ether	5.95	45	867642	49.995	ug/l	98
23) Vinyl Acetate	5.90	43	2922160	243.402	ug/l	98
24) 1,1-Dichloroethane	5.85	63	547528	47.302	ug/l	100
25) 2-Butanone	6.83	43	552141	236.842	ug/l	99
26) 2,2-Dichloropropane	6.83	77	377173	42.686	ug/l	99
27) cis-1,2-Dichloroethene	6.83	96	342490	48.533	ug/l	97
28) Bromochloromethane	7.20	49	244744	48.723	ug/l	94
29) Tetrahydrofuran	7.21	42	371872	248.416	ug/l	97
30) Chloroform	7.37	83	551769	48.087	ug/l	99
31) Cyclohexane	7.66	56	463704	43.003	ug/l	97
32) 1,1,1-Trichloroethane	7.57	97	459165	48.084	ug/l	99
36) 1,1-Dichloropropene	7.79	75	404334	46.587	ug/l	99
37) Ethyl Acetate	6.93	43	248751	51.317	ug/l	99
38) Carbon Tetrachloride	7.77	117	406553	46.499	ug/l	99

Data Path : Z:\VOASRV\HPCHEM1\MSVOA N\DATA\VN021519\
 Data File : VN053813.D
 Acq On : 15 Feb 2019 21:06
 Operator : JC/SP
 Sample : VSTDCCC050
 Misc : 5.00mL/MSVOA N/WATER
 ALS Vial : 25 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleID :
 VSTDCCC050EC

Manual Integrations
 APPROVED

MMDadoda
 2/18/2019 9:48:52 AM

Quant Time: Feb 16 00:21:14 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_N\METHODS\82N013019W.M
 Quant Title : SW846 8260
 QLast Update : Fri Feb 01 09:11:52 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
39) Methylcyclohexane	9.08	83	459106	44.587	ug/l	99
40) Benzene	8.04	78	1250423	46.720	ug/l	100
41) Methacrylonitrile	7.18	41	134084	49.493	ug/l	90
42) 1,2-Dichloroethane	8.13	62	371440	46.740	ug/l	99
43) Isopropyl Acetate	8.16	43	444343	47.466	ug/l	99
44) Trichloroethene	8.84	130	350361	45.981	ug/l	97
45) 1,2-Dichloropropane	9.12	63	332888	48.628	ug/l	99
46) Dibromomethane	9.21	93	197403	47.836	ug/l	97
47) Bromodichloromethane	9.40	83	423037	49.305	ug/l	98
48) Methyl methacrylate	9.20	41	212402	47.533	ug/l	93
49) 1,4-Dioxane	9.20	88	62591	967.974	ug/l	93
51) 4-Methyl-2-Pentanone	9.99	43	1190211	258.733	ug/l	100
52) Toluene	10.16	92	751803	47.329	ug/l	99
53) t-1,3-Dichloropropene	10.38	75	417546	48.599	ug/l	98
54) cis-1,3-Dichloropropene	9.84	75	485143	47.652	ug/l	97
55) 1,1,2-Trichloroethane	10.56	97	285274	49.840	ug/l	98
56) Ethyl methacrylate	10.43	69	349317	51.588	ug/l	98
57) 1,3-Dichloropropane	10.71	76	478747	48.940	ug/l	99
58) 2-Chloroethyl Vinyl ether	9.70	63	805549	193.689	ug/l	98
59) 2-Hexanone	10.75	43	748517	239.686	ug/l	98
60) Dibromochloromethane	10.90	129	328600	50.909	ug/l	100
61) 1,2-Dibromoethane	11.01	107	274077	48.378	ug/l	99
64) Tetrachloroethene	10.63	164	340797	46.796	ug/l	99
65) Chlorobenzene	11.43	112	840815	46.593	ug/l	99
66) 1,1,1,2-Tetrachloroethane	11.51	131	317804	50.427	ug/l	99
67) Ethyl Benzene	11.51	91	1394139	47.030	ug/l	99
68) m/p-Xylenes	11.62	106	1088019	96.167	ug/l	99
69) o-Xylene	11.95	106	531431	48.620	ug/l	99
70) Styrene	11.96	104	869373	49.073	ug/l	100
71) Bromoform	12.13	173	227245	52.594	ug/l #	98
73) Isopropylbenzene	12.25	105	1385591	47.640	ug/l	100
74) N-amyl acetate	12.07	43	342436	48.962	ug/l	98
75) 1,1,2,2-Tetrachloroethane	12.50	83	341600	49.076	ug/l	99
76) 1,2,3-Trichloropropane	12.55	75	282126m	53.090	ug/l	
77) Bromobenzene	12.53	156	378786	48.324	ug/l	97
78) n-propylbenzene	12.59	91	1589930	47.288	ug/l	99
79) 2-Chlorotoluene	12.67	91	946060	47.428	ug/l	99
80) 1,3,5-Trimethylbenzene	12.73	105	1184780	49.124	ug/l	99
81) trans-1,4-Dichloro-2-buten	12.30	75	90275	47.768	ug/l	98
82) 4-Chlorotoluene	12.77	91	951041	46.463	ug/l	99
83) tert-Butylbenzene	12.99	119	1052636	49.382	ug/l	99
84) 1,2,4-Trimethylbenzene	13.04	105	1209271	49.213	ug/l	99
85) sec-Butylbenzene	13.17	105	1418364	48.897	ug/l	99
86) p-Isopropyltoluene	13.29	119	1239313	48.851	ug/l	100
87) 1,3-Dichlorobenzene	13.28	146	655050	46.487	ug/l	100
88) 1,4-Dichlorobenzene	13.36	146	644617	46.247	ug/l	99
89) n-Butylbenzene	13.62	91	1031519	46.975	ug/l	99
90) Hexachloroethane	13.87	117	216255	51.679	ug/l	96
91) 1,2-Dichlorobenzene	13.65	146	643134	47.675	ug/l	100
92) 1,2-Dibromo-3-Chloropropan	14.27	75	49030	49.424	ug/l	98

Data Path : Z:\VOASRV\HPCHEM1\MSVOA N\DATA\VN021519\
Data File : VN053813.D
Acq On : 15 Feb 2019 21:06
Operator : JC/SP
Sample : VSTDCCC050
Misc : 5.00mL/MSVOA N/WATER
ALS Vial : 25 Sample Multiplier: 1

Instrument :
MSVOA_N
ClientSampleId :
VSTDCCC050EC

Manual Integrations
APPROVED

MMDadoda
2/18/2019 9:48:52 AM

Quant Time: Feb 16 00:21:14 2019
Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_N\METHODS\82N013019W.M
Quant Title : SW846 8260
QLast Update : Fri Feb 01 09:11:52 2019
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
93) 1,2,4-Trichlorobenzene	14.91	180	363228	46.948	ug/l	98
94) Hexachlorobutadiene	15.01	225	232716	48.299	ug/l	99
95) Naphthalene	15.13	128	733094	40.672	ug/l	99
96) 1,2,3-Trichlorobenzene	15.31	180	346167	48.221	ug/l	99

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

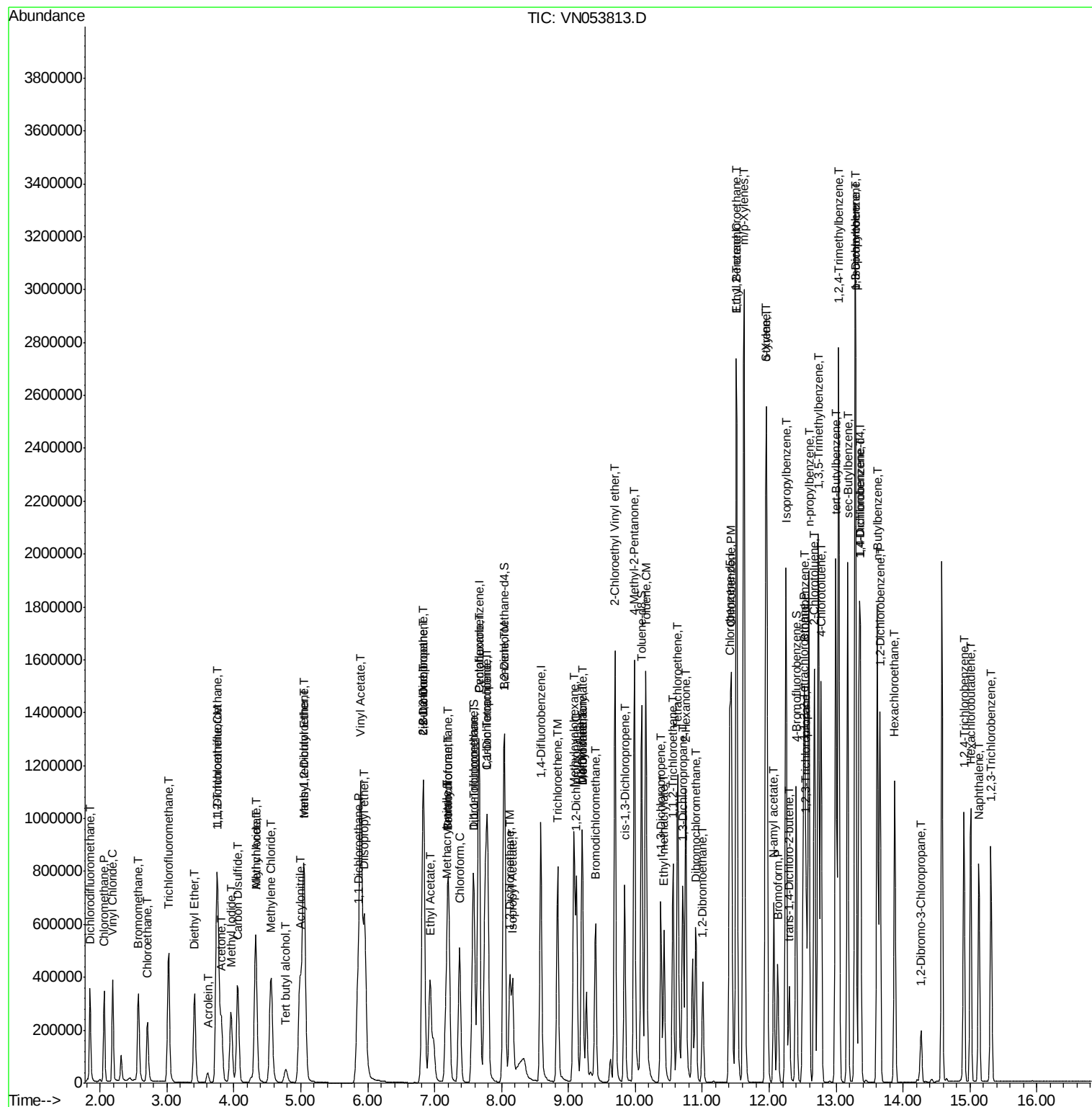
Data Path : Z:\V0ASRV\HPCHEM1\MSVOA N\DATA\VN021519\
Data File : VN053813.D
Acq On : 15 Feb 2019 21:06
Operator : JC/SP
Sample : VSTDCCC050
Misc : 5.00mL/MSVOA N/WATER
ALS Vial : 25 Sample Multiplier: 1

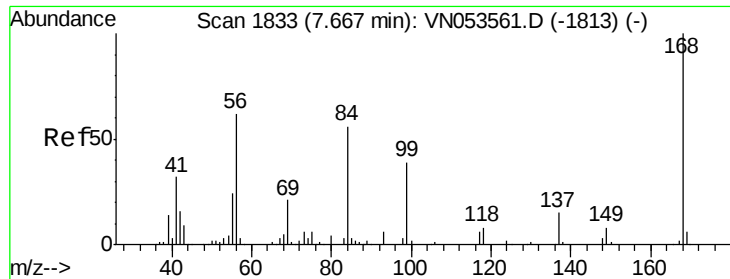
Instrument :
MSVOA_N
ClientSampleId :
VSTDCCC050EC

Manual Integrations
APPROVED

MMDadoda
2/18/2019 9:48:52 AM

Quant Time: Feb 16 00:21:14 2019
Quant Method : Z:\V0ASRV\HPCHEM1\MSVOA_N\METHODS\82N013019W.M
Quant Title : SW846 8260
QLast Update : Fri Feb 01 09:11:52 2019
Response via : Initial Calibration





#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 7.67 min Scan# 1833

Delta R.T. 0.00 min

Lab File: VN053813.D

Acq: 15 Feb 2019 21:06

Instrument :

MSVOA_N

ClientSampleId :

VSTDCCC050EC

Tot Ion:168 Resp: 635227

Ion Ratio Lower Upper

168 100

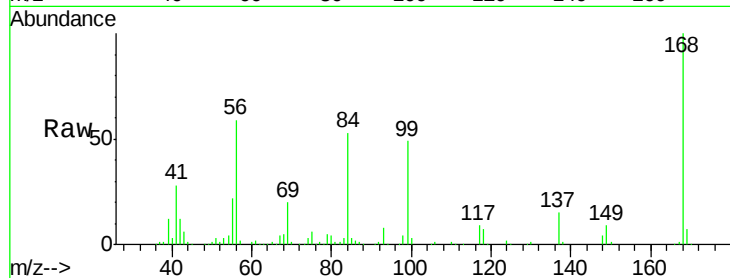
99 48.6 39.1 58.7

Manual Integrations

APPROVED

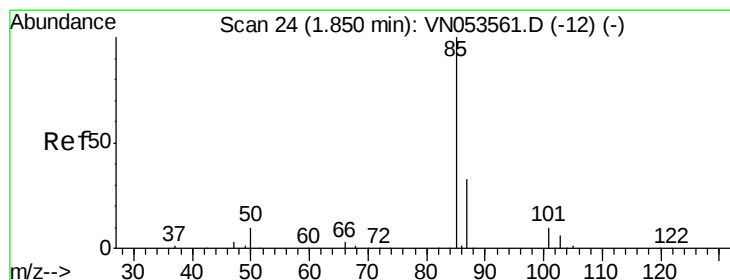
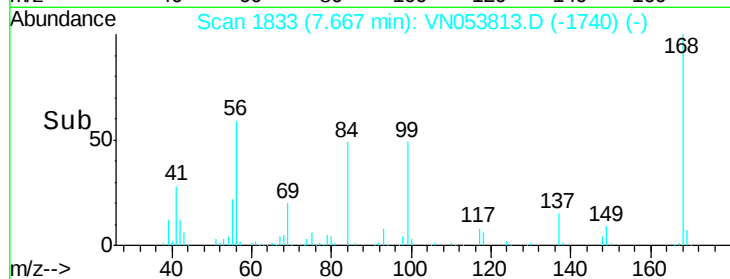
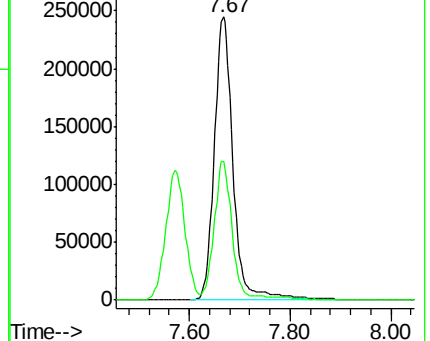
MMDadoda

2/18/2019 9:48:52 AM



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VNO



#2

Dichlorodifluoromethane

Concen: 40.204 ug/l

RT: 1.85 min Scan# 24

Delta R.T. 0.00 min

Lab File: VN053813.D

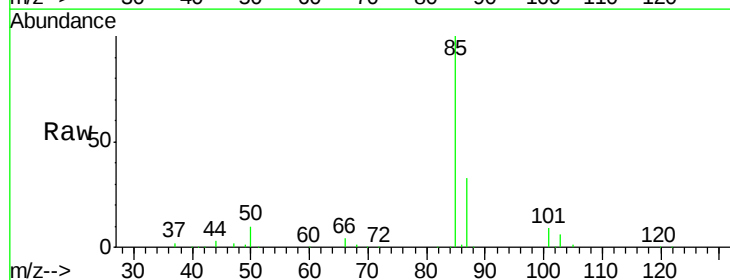
Acq: 15 Feb 2019 21:06

Tgt Ion: 85 Resp: 287439

Ion Ratio Lower Upper

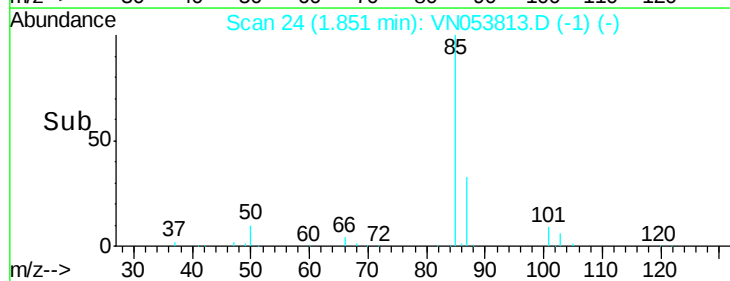
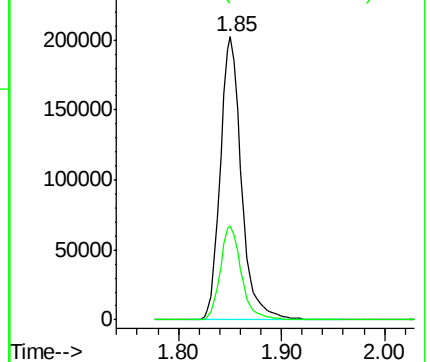
85 100

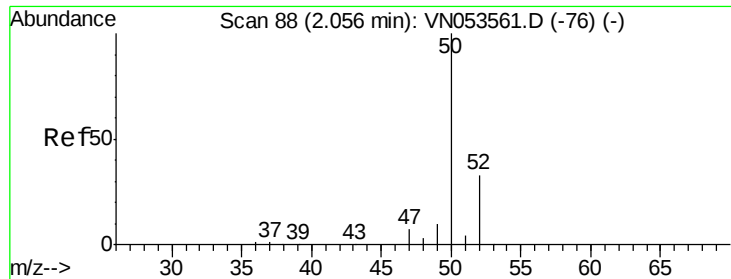
87 33.2 16.2 48.5



Abundance Ion 84.90 (84.60 to 85.60): VNO

Ion 86.90 (86.60 to 87.60): VNO





#3

Chloromethane

Concen: 43.948 ug/l

RT: 2.06 min Scan# 89

Delta R.T. 0.00 min

Lab File: VN053813.D

Acq: 15 Feb 2019 21:06

Instrument :

MSVOA_N

ClientSampleId :

VSTDCCC050EC

Tot Ion: 50 Resp: 331433

Ion Ratio Lower Upper

50 100

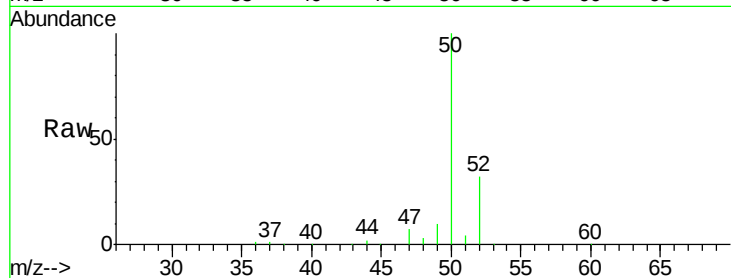
52 31.8 26.6 40.0

Manual Integrations

APPROVED

MMDadoda

2/18/2019 9:48:52 AM



Abundance Ion 49.90 (49.60 to 50.60): VNO

Ion 51.90 (51.60 to 52.60): VNO

2.06

200000

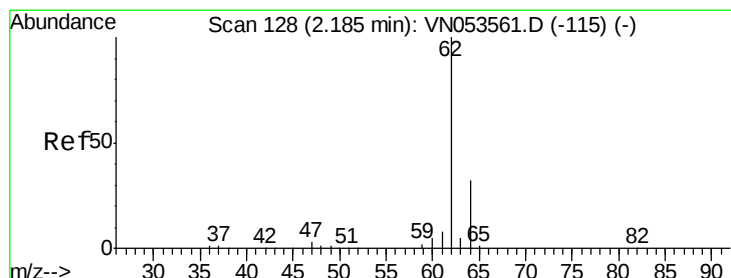
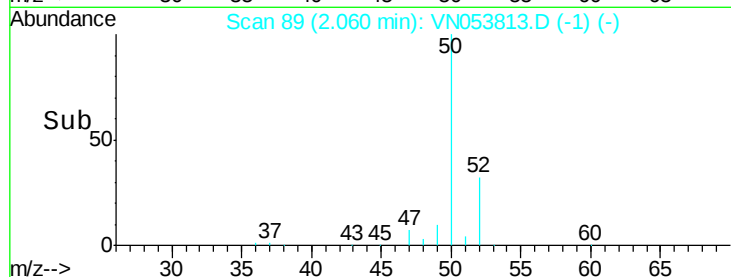
150000

100000

50000

0

Time-->



#4

Vinyl Chloride

Concen: 48.970 ug/l

RT: 2.19 min Scan# 129

Delta R.T. 0.00 min

Lab File: VN053813.D

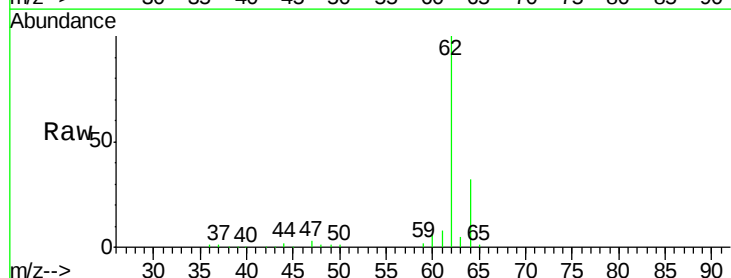
Acq: 15 Feb 2019 21:06

Tgt Ion: 62 Resp: 358495

Ion Ratio Lower Upper

62 100

64 32.5 25.4 38.2



Abundance Ion 61.90 (61.60 to 62.60): VNO

Ion 63.90 (63.60 to 64.60): VNO

2.19

250000

200000

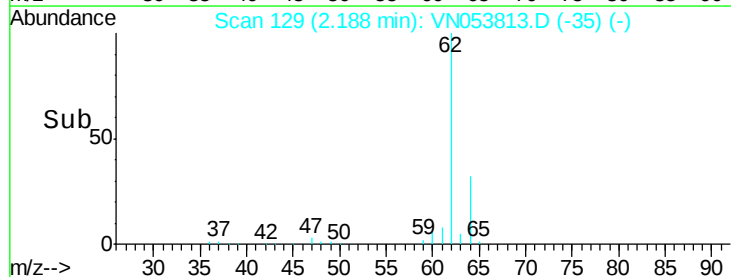
150000

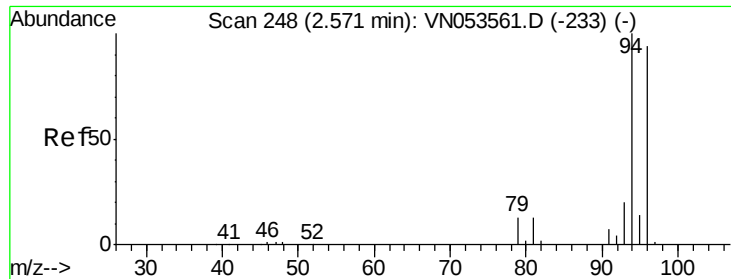
100000

50000

0

Time-->





#5

Bromomethane

Concen: 50.348 ug/l

RT: 2.57 min Scan# 248

Delta R.T. 0.00 min

Lab File: VN053813.D

Acq: 15 Feb 2019 21:06

Instrument :

MSVOA_N

ClientSampleId :

VSTDCCC050EC

Tot Ion: 94 Resp: 240998

Ion Ratio Lower Upper

94 100

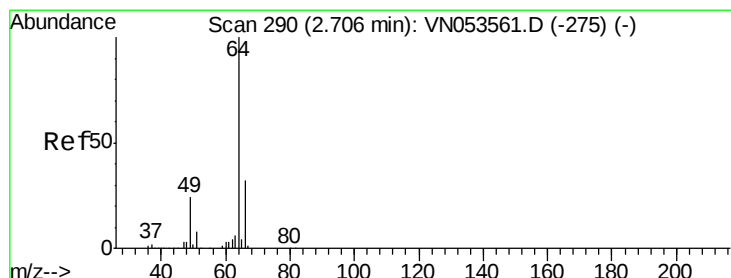
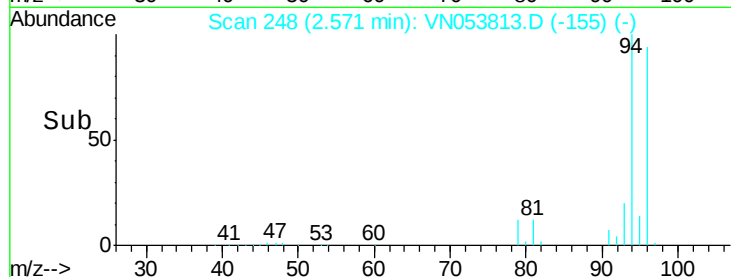
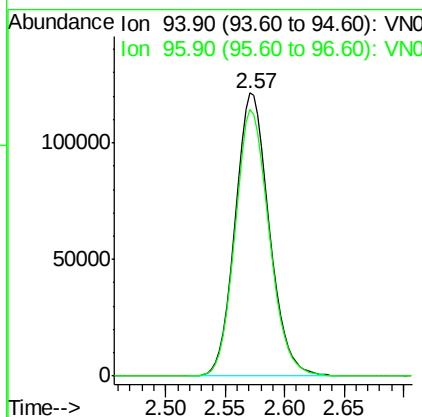
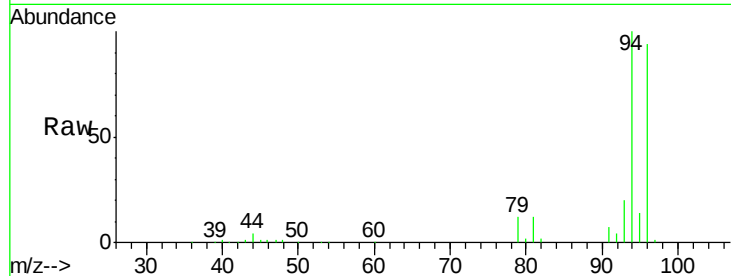
96 94.3 76.8 115.2

Manual Integrations

APPROVED

MMDadoda

2/18/2019 9:48:52 AM



#6

Chloroethane

Concen: 53.727 ug/l

RT: 2.71 min Scan# 291

Delta R.T. 0.00 min

Lab File: VN053813.D

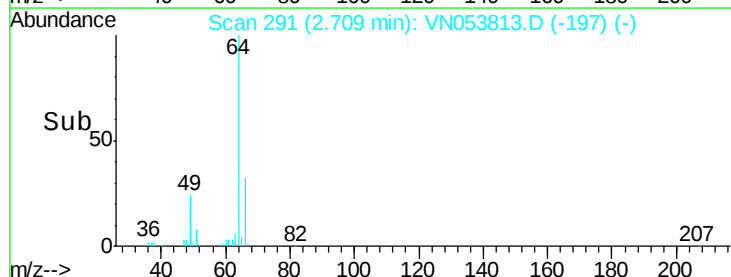
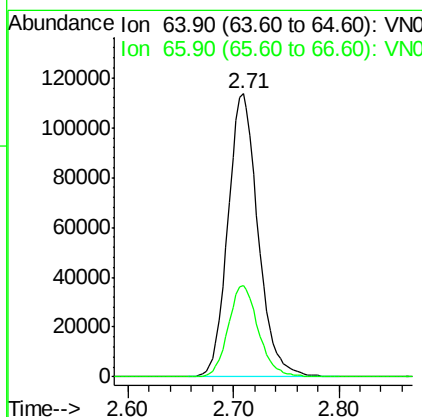
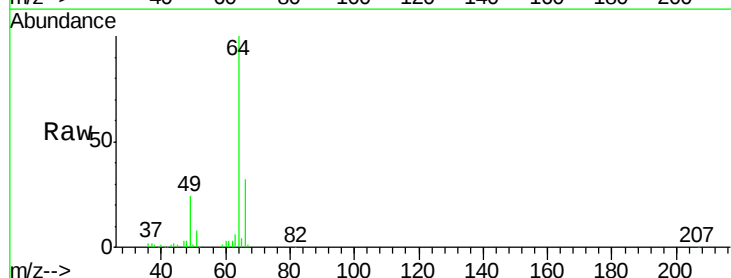
Acq: 15 Feb 2019 21:06

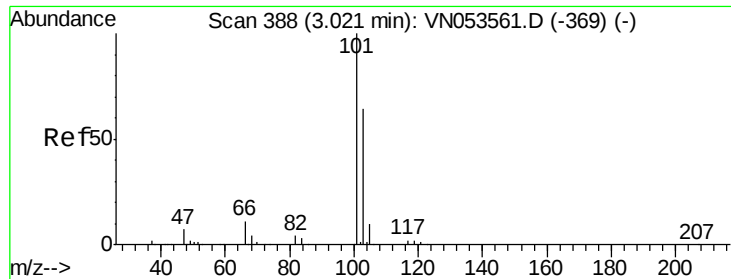
Tgt Ion: 64 Resp: 224764

Ion Ratio Lower Upper

64 100

66 32.2 25.1 37.7





#7

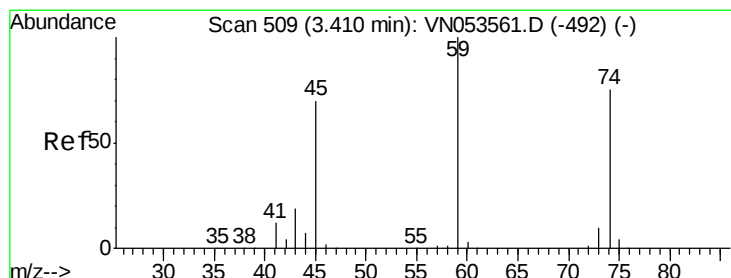
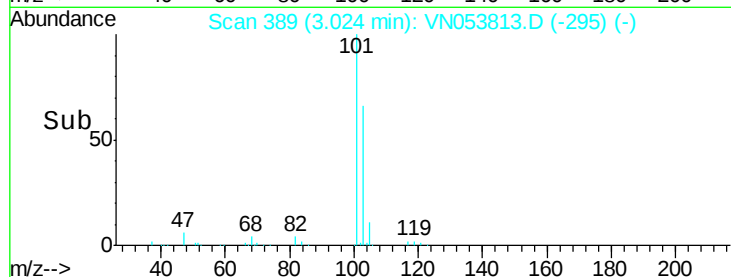
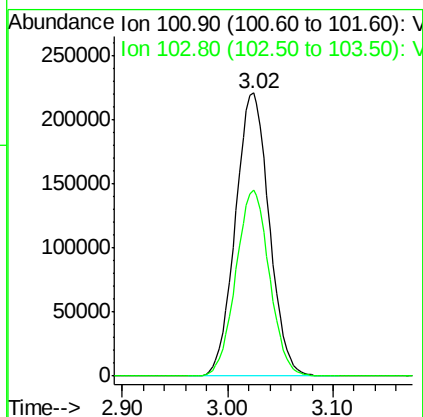
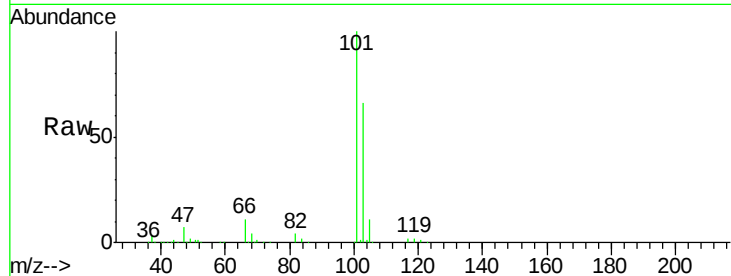
Trichlorofluoromethane
Concen: 49.555 ug/l
RT: 3.02 min Scan# 389
Delta R.T. 0.00 min
Lab File: VN053813.D
Acq: 15 Feb 2019 21:06

Instrument :
MSVOA_N
ClientSampleId :
VSTDCCC050EC

Tot Ion	Ion	Ratio	Resp	Lower	Upper
101	100		491957		
103	65.6	51.6	77.4		

Manual Integrations
APPROVED

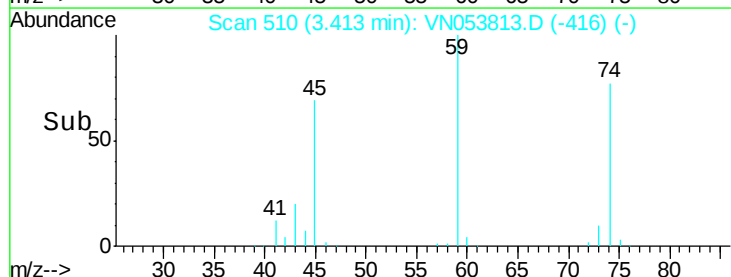
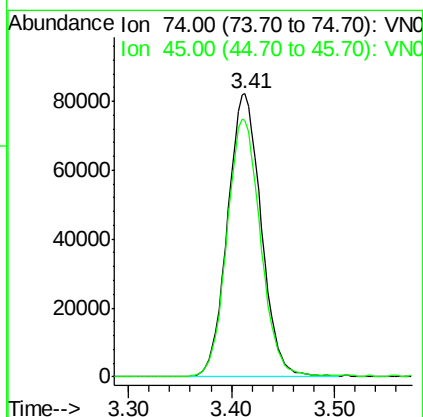
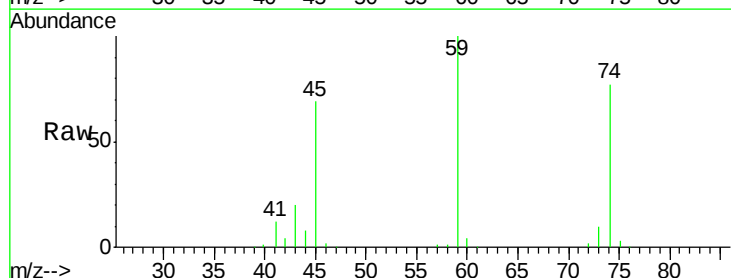
MMDadoda
2/18/2019 9:48:52 AM

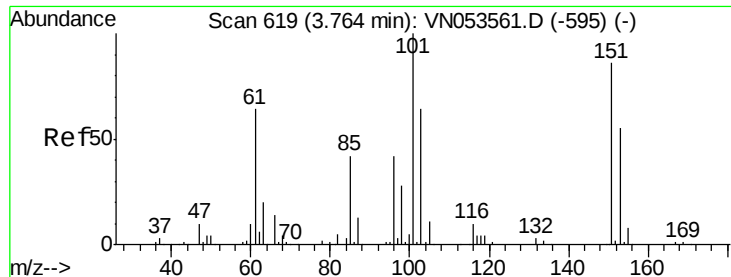


#8

Diethyl Ether
Concen: 51.324 ug/l
RT: 3.41 min Scan# 510
Delta R.T. 0.00 min
Lab File: VN053813.D
Acq: 15 Feb 2019 21:06

Tgt Ion	Ion	Ratio	Resp	Lower	Upper
74	100		186078		
45	90.3	47.9	143.7		





#9

1,1,2-Trichlorotrifluoroethane

Concen: 49.190 ug/l

RT: 3.76 min Scan# 619

Delta R.T. 0.00 min

Lab File: VN053813.D

Acq: 15 Feb 2019 21:06

Instrument :

MSVOA_N

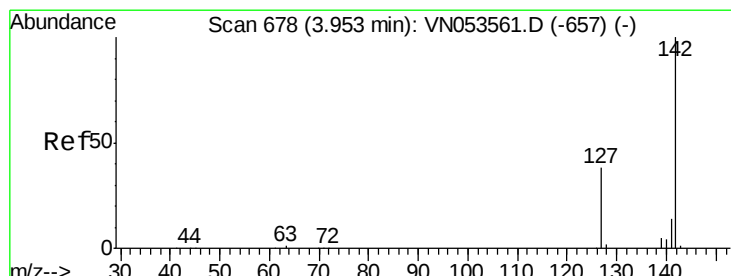
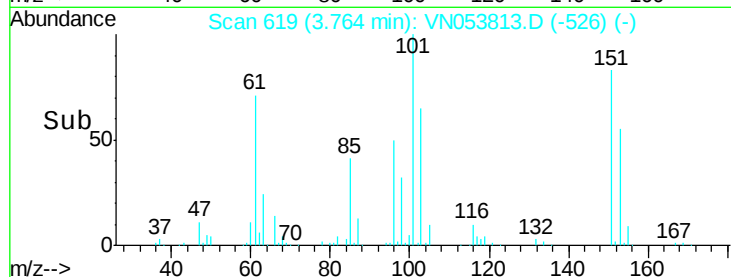
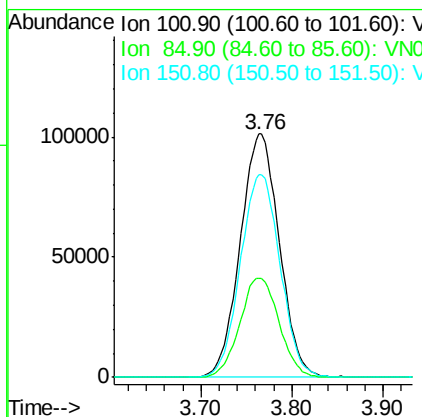
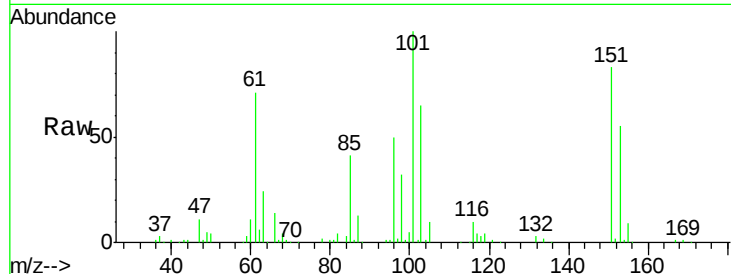
ClientSampleId :

VSTDCCC050EC

Tot Ion:	101	Resp:	302012
Ion Ratio	Lower	Upper	
101	100		
85	41.0	32.8	49.2
151	84.6	66.9	100.3

Manual Integrations
APPROVED

MMDadoda
2/18/2019 9:48:52 AM



#10

Methyl Iodide

Concen: 47.171 ug/l

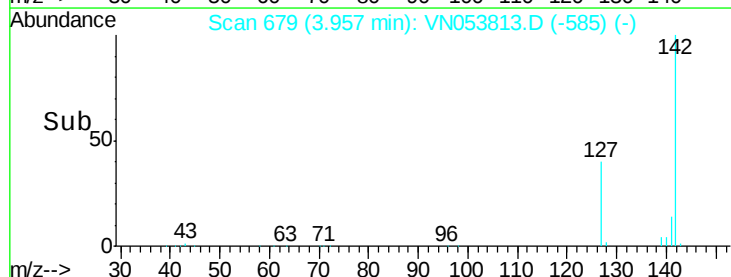
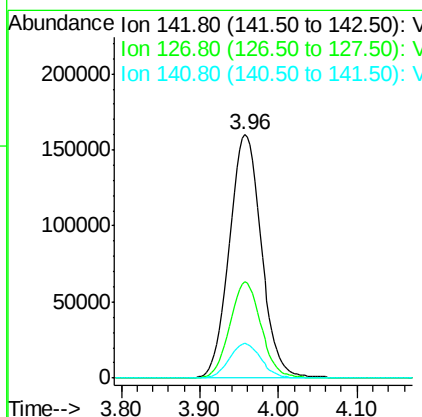
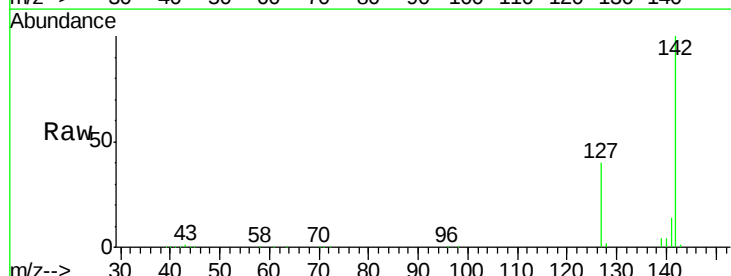
RT: 3.96 min Scan# 679

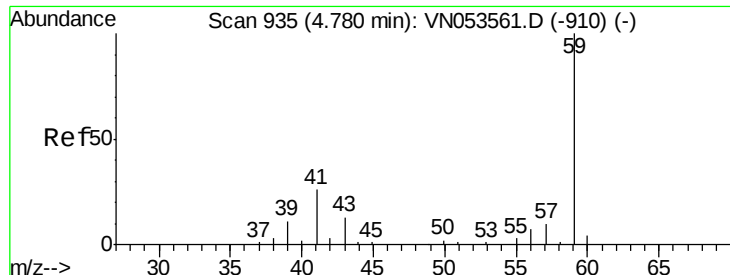
Delta R.T. 0.00 min

Lab File: VN053813.D

Acq: 15 Feb 2019 21:06

Tgt Ion:	142	Resp:	454575
Ion Ratio	Lower	Upper	
142	100		
127	38.8	31.0	46.4
141	14.2	11.1	16.7





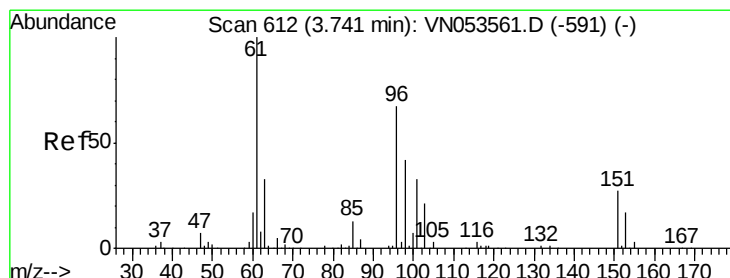
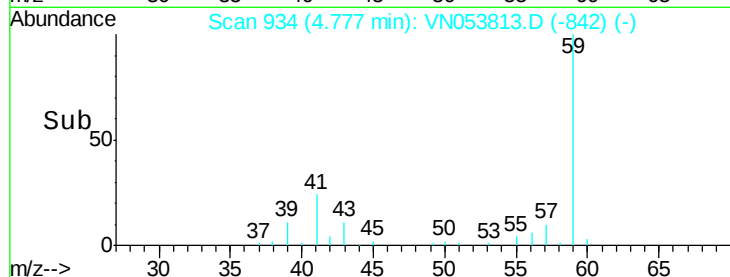
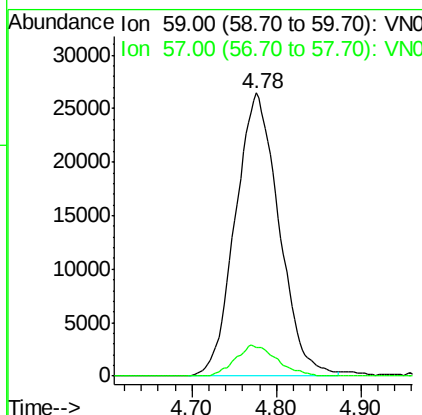
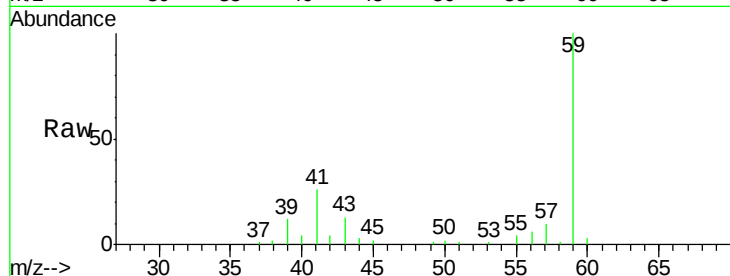
#11
Tert butyl alcohol
Concen: 252.493 ug/l
RT: 4.78 min Scan# 934
Delta R.T. -0.00 min
Lab File: VN053813.D
Acq: 15 Feb 2019 21:06

Instrument :
MSVOA_N
ClientSampleId :
VSTDCCC050EC

Tot Ion	Ratio	Resp	Lower	Upper
59	100	95226		
57	10.4		8.2	12.4

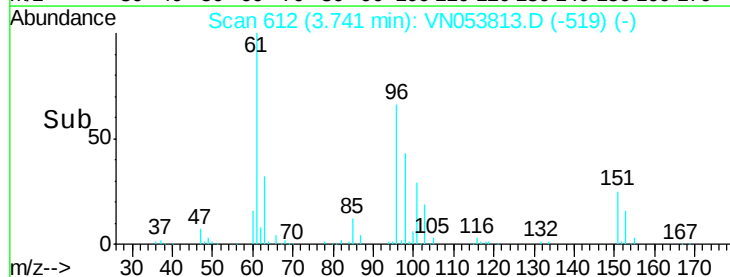
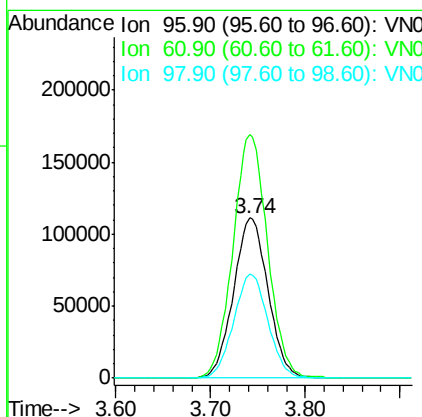
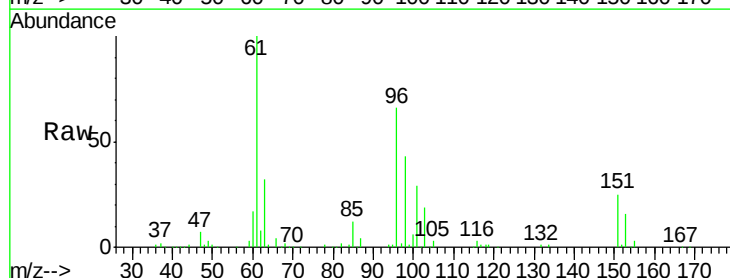
Manual Integrations
APPROVED

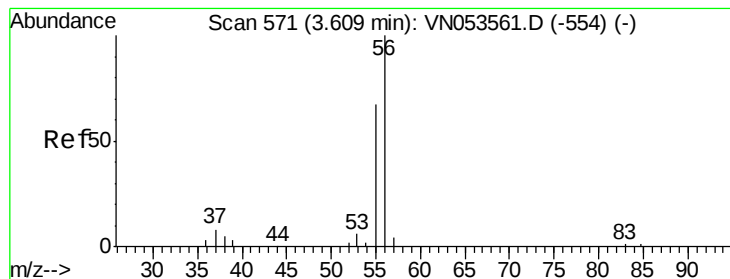
MMDadoda
2/18/2019 9:48:52 AM



#12
1,1-Dichloroethene
Concen: 48.080 ug/l
RT: 3.74 min Scan# 612
Delta R.T. 0.00 min
Lab File: VN053813.D
Acq: 15 Feb 2019 21:06

Tgt Ion	Ratio	Resp	Lower	Upper
96	100	282822		
61	152.3		122.9	184.3
98	64.8		49.4	74.0





#13

Acrolein

Concen: 217.801 ug/l

RT: 3.61 min Scan# 570

Delta R.T. -0.00 min

Lab File: VN053813.D

Acq: 15 Feb 2019 21:06

Instrument :

MSVOA_N

ClientSampleId :

VSTDCCC050EC

Tot Ion: 56 Resp: 44723

Ion Ratio Lower Upper

56 100

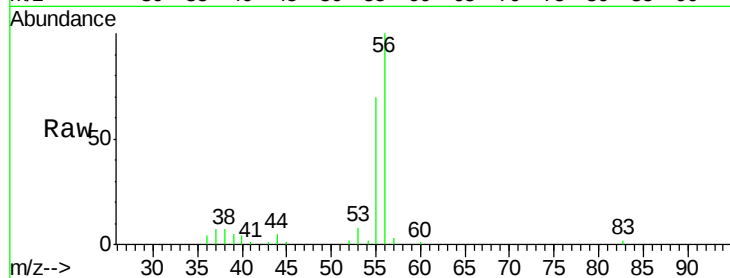
55 70.6 57.4 86.0

Manual Integrations

APPROVED

MMDadoda

2/18/2019 9:48:52 AM



Abundance Ion 56.00 (55.70 to 56.70): VN0

Ion 55.00 (54.70 to 55.70): VN0

20000

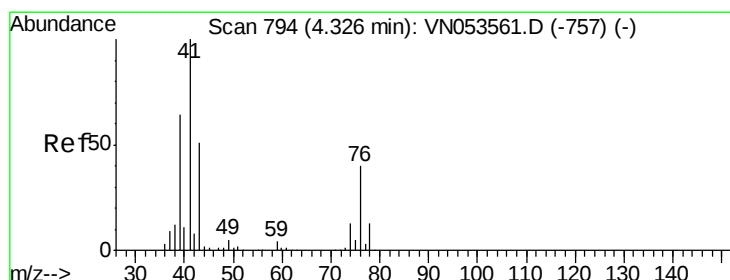
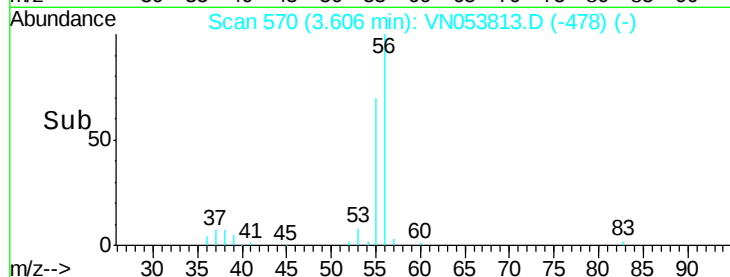
15000

10000

5000

0

Time--> 3.50 3.55 3.60 3.65 3.70



#14

Allyl chloride

Concen: 48.082 ug/l

RT: 4.33 min Scan# 794

Delta R.T. 0.00 min

Lab File: VN053813.D

Acq: 15 Feb 2019 21:06

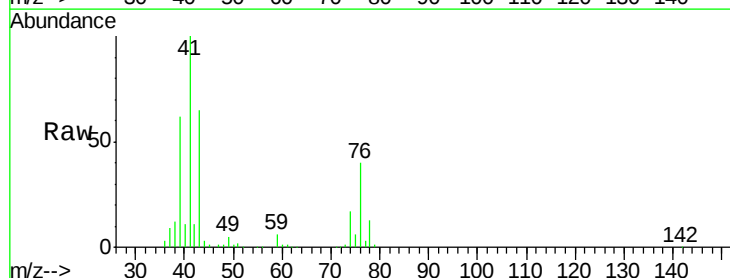
Tgt Ion: 41 Resp: 450339

Ion Ratio Lower Upper

41 100

39 60.6 48.9 73.3

76 38.1 29.4 44.2



Abundance Ion 41.00 (40.70 to 41.70): VN0

Ion 39.00 (38.70 to 39.70): VN0

Ion 75.90 (75.60 to 76.60): VN0

200000

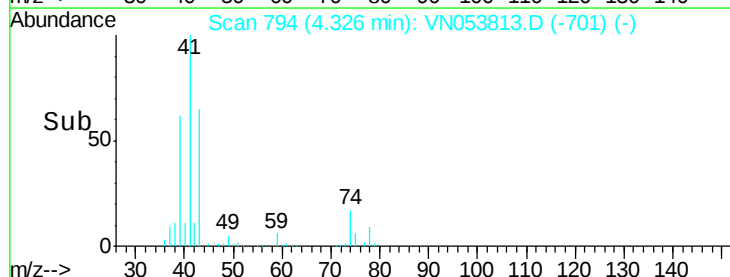
150000

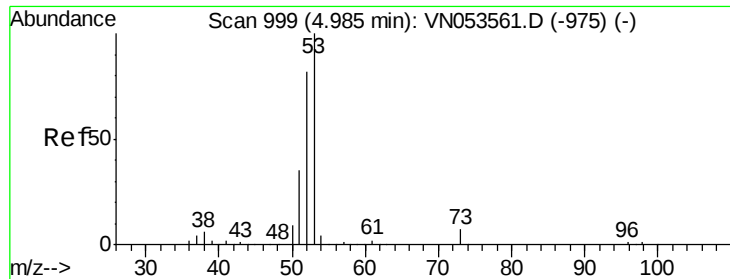
100000

50000

0

Time--> 4.10 4.20 4.30 4.40 4.50





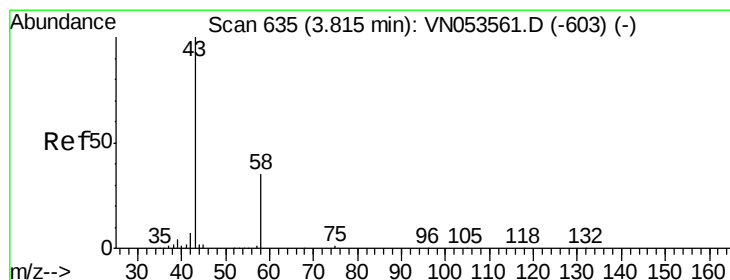
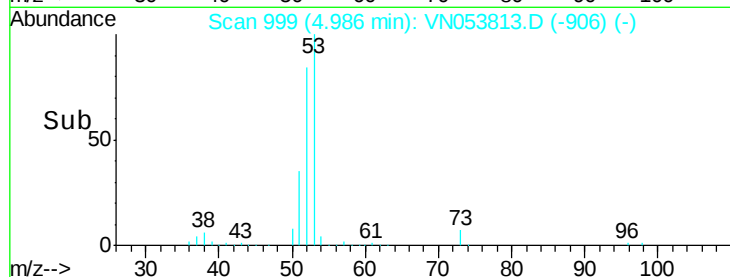
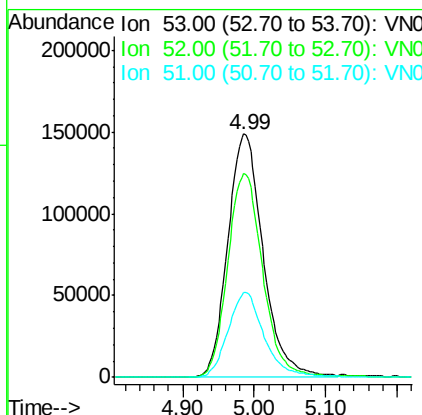
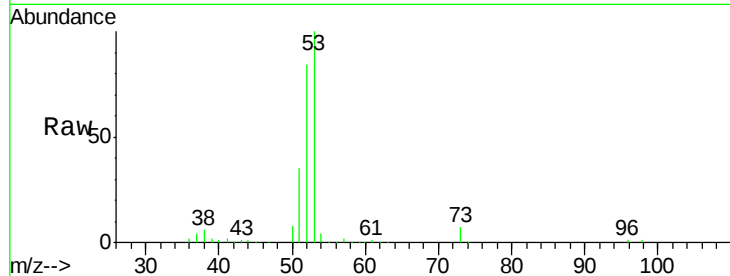
#15
 Acrylonitrile
 Concen: 252.360 ug/l
 RT: 4.99 min Scan# 999
 Delta R.T. 0.00 min
 Lab File: VN053813.D
 Acq: 15 Feb 2019 21:06

Instrument :
 MSVOA_N
 ClientSampleId :
 VSTDCCC050EC

Tot Ion:	53	Resp:	513807
Ion	Ratio	Lower	Upper
53	100		
52	82.8	66.0	99.0
51	35.8	28.3	42.5

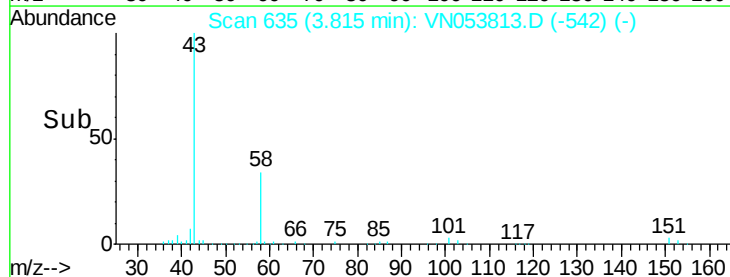
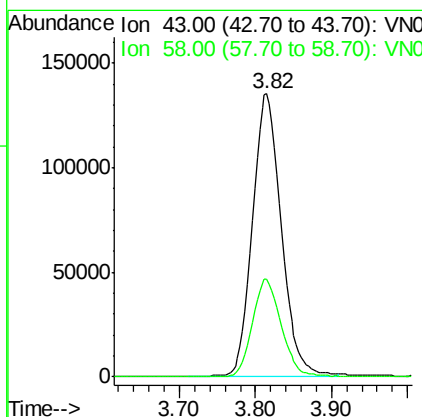
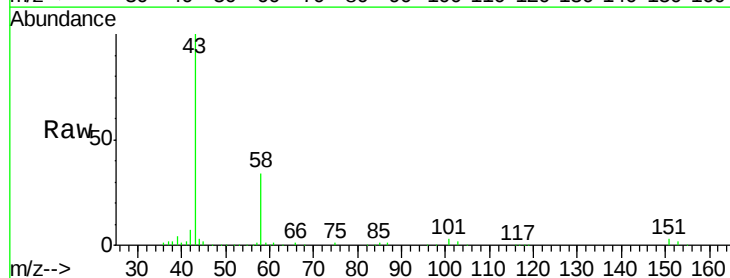
Manual Integrations
 APPROVED

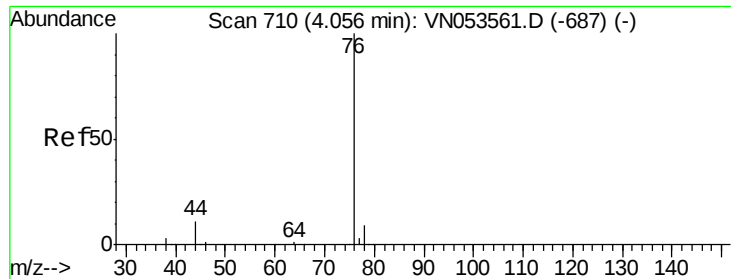
MMDadoda
 2/18/2019 9:48:52 AM



#16
 Acetone
 Concen: 219.347 ug/l
 RT: 3.82 min Scan# 635
 Delta R.T. 0.00 min
 Lab File: VN053813.D
 Acq: 15 Feb 2019 21:06

Tgt Ion:	43	Resp:	358539
Ion	Ratio	Lower	Upper
43	100		
58	34.2	27.1	40.7





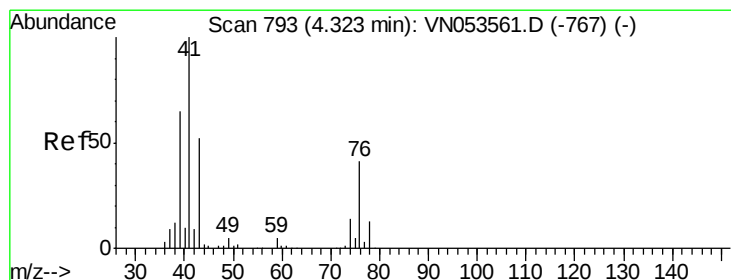
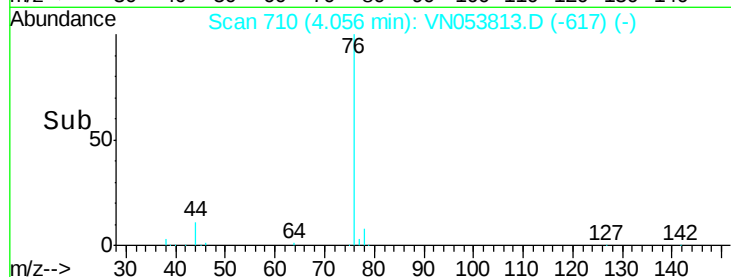
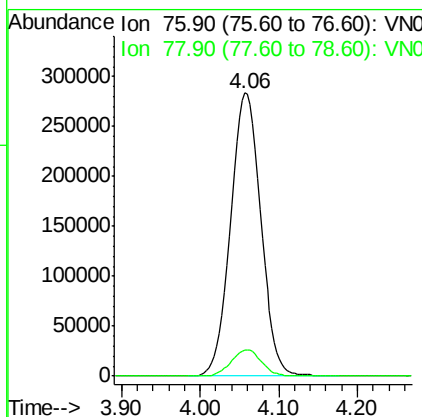
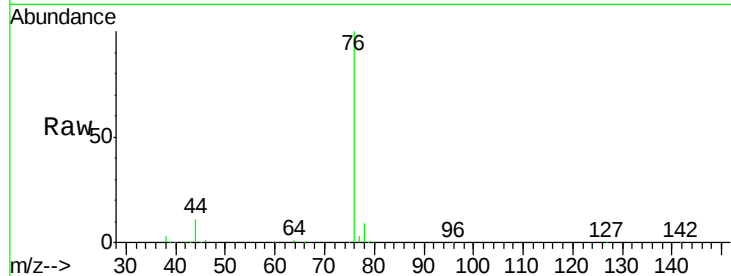
#17
Carbon Disulfide
Concen: 41.416 ug/l
RT: 4.06 min Scan# 710
Delta R.T. 0.00 min
Lab File: VN053813.D
Acq: 15 Feb 2019 21:06

Instrument :
MSVOA_N
ClientSampleId :
VSTDCCC050EC

Tot Ion	Ratio	Lower	Upper
76	100		
78	9.1	7.3	10.9

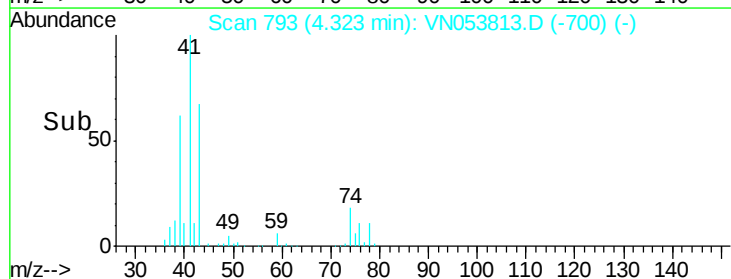
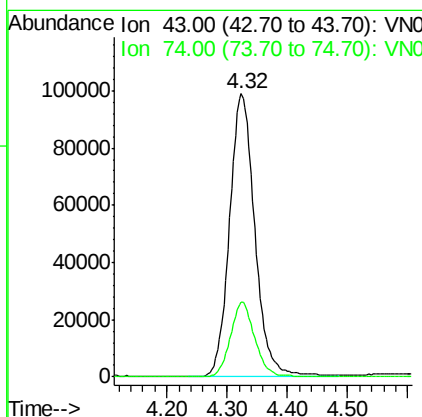
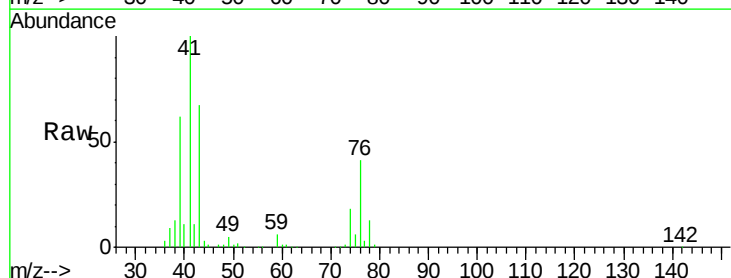
Manual Integrations
APPROVED

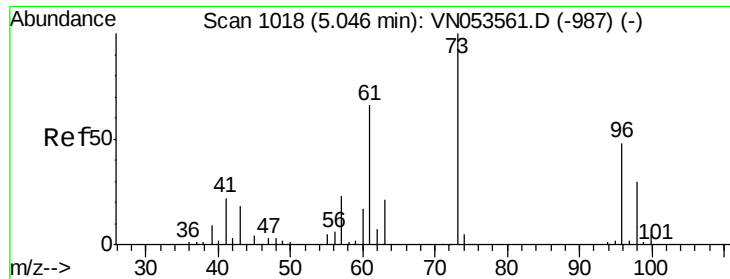
MMDadoda
2/18/2019 9:48:52 AM



#18
Methyl Acetate
Concen: 59.648 ug/l
RT: 4.32 min Scan# 793
Delta R.T. 0.00 min
Lab File: VN053813.D
Acq: 15 Feb 2019 21:06

Tgt Ion	Ratio	Lower	Upper
43	100		
74	25.4	19.4	29.2





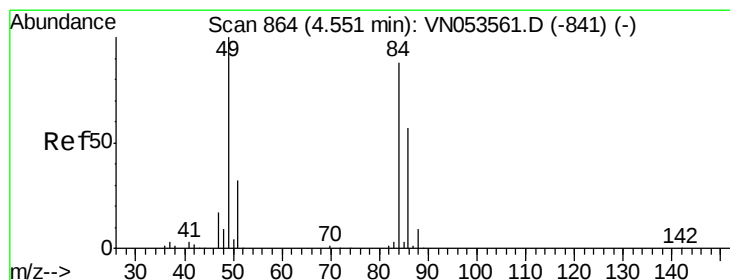
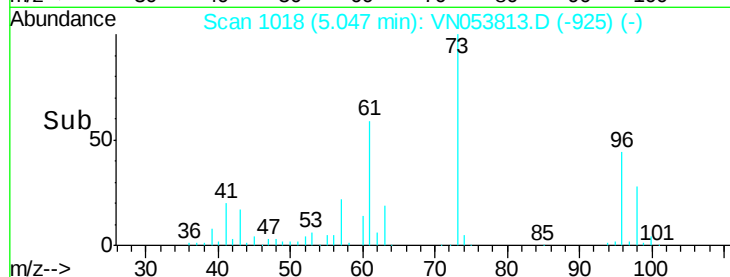
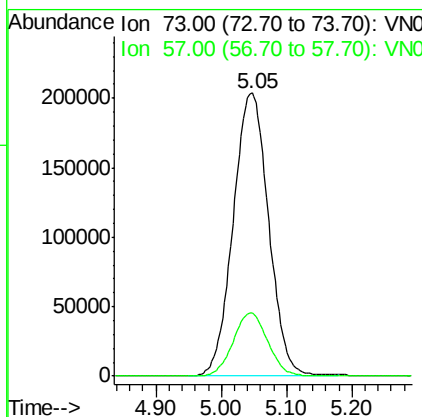
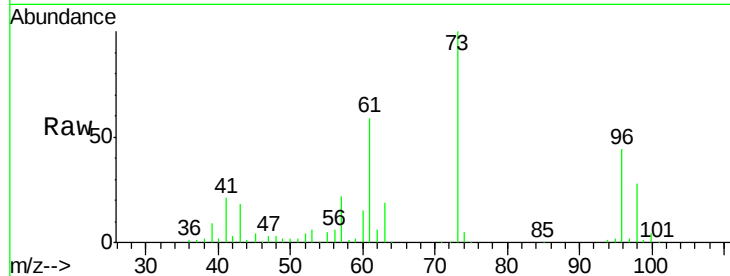
#19
Methvl tert-butvl Ether
Concen: 51.592 ug/l
RT: 5.05 min Scan# 1018
Delta R.T. 0.00 min
Lab File: VN053813.D
Acq: 15 Feb 2019 21:06

Instrument :
MSVOA_N
ClientSampleId :
VSTDCCC050EC

Tot Ion: 73 Resp: 769347
Ion Ratio Lower Upper
73 100
57 22.2 18.3 27.5

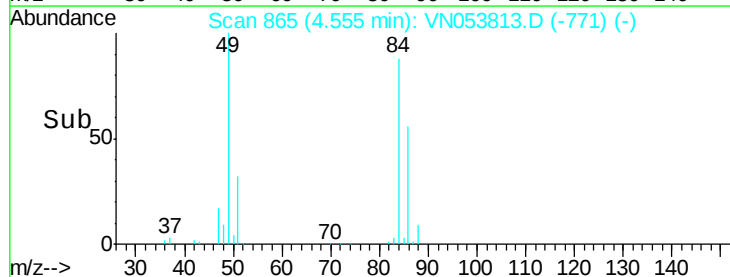
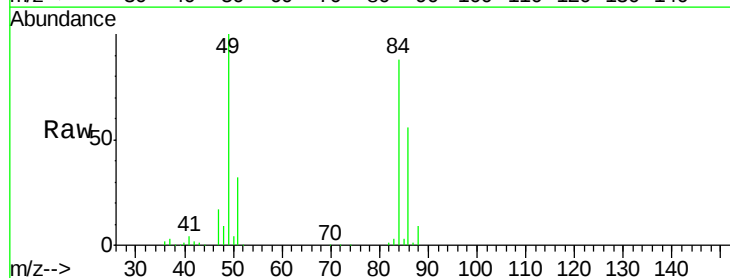
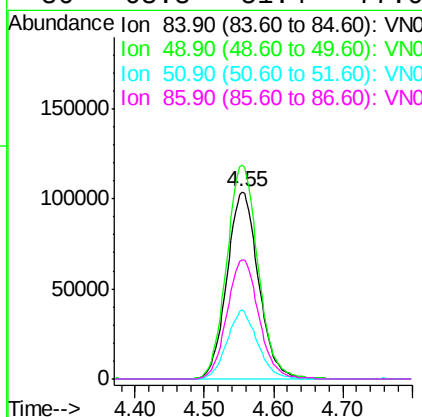
Manual Integrations
APPROVED

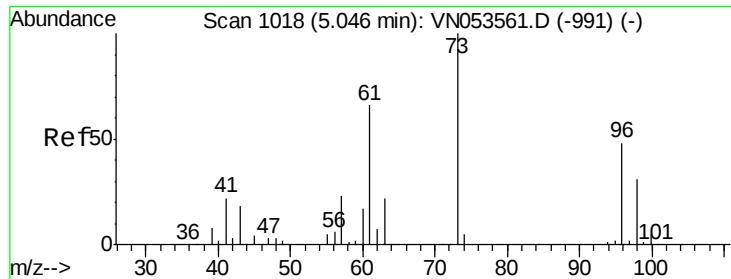
MMDadoda
2/18/2019 9:48:52 AM



#20
Methylene Chloride
Concen: 48.227 ug/l
RT: 4.55 min Scan# 865
Delta R.T. 0.00 min
Lab File: VN053813.D
Acq: 15 Feb 2019 21:06

Tgt Ion: 84 Resp: 330726
Ion Ratio Lower Upper
84 100
49 113.8 94.3 141.5
51 36.6 29.4 44.2
86 63.8 51.4 77.0





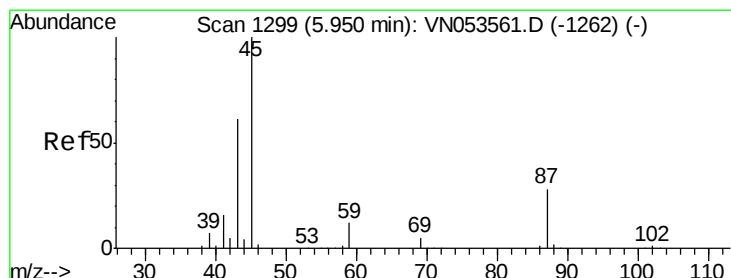
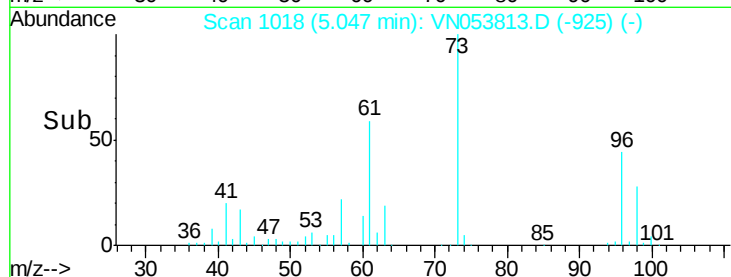
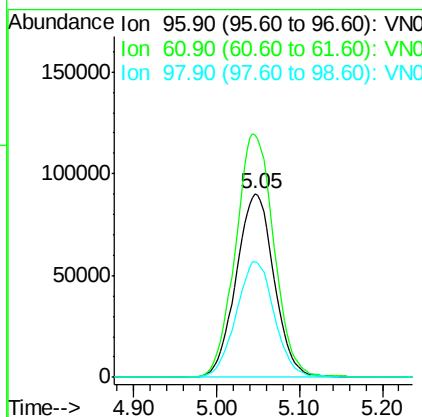
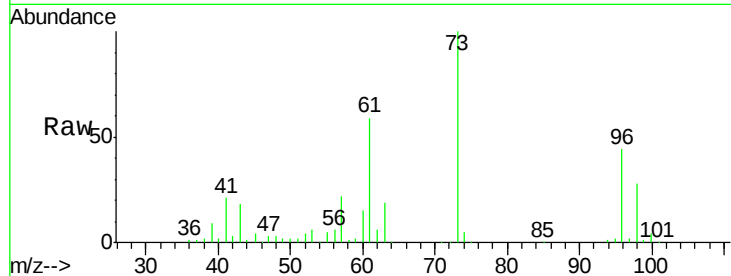
#21
trans-1,2-Dichloroethene
Concen: 45.124 ug/l
RT: 5.05 min Scan# 1018
Delta R.T. 0.00 min
Lab File: VN053813.D
Acq: 15 Feb 2019 21:06

Instrument :
MSVOA_N
ClientSampleId :
VSTDCCC050EC

Tot Ion	Ratio	Lower	Upper
96	100		
61	132.4	110.1	165.1
98	62.9	50.0	75.0

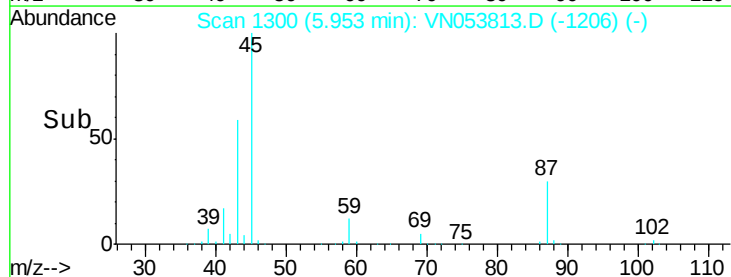
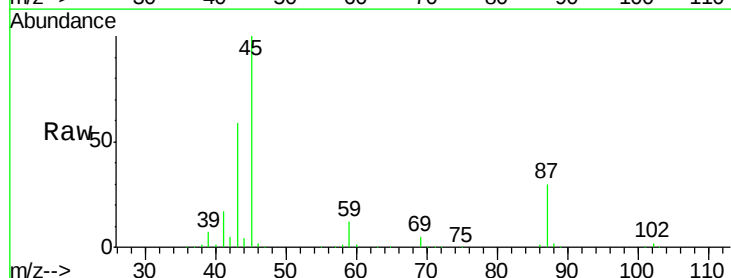
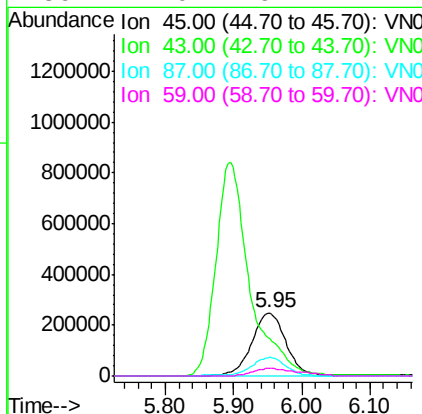
Manual Integrations
APPROVED

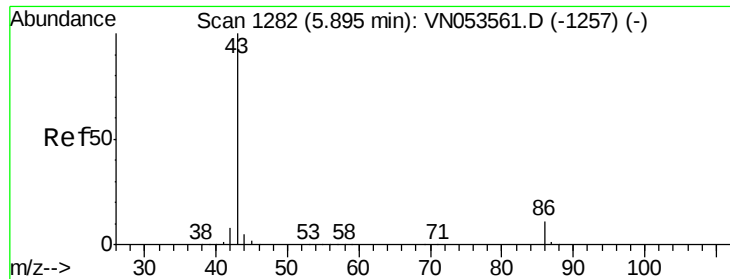
MMDadoda
2/18/2019 9:48:52 AM



#22
Diisopropyl ether
Concen: 49.995 ug/l
RT: 5.95 min Scan# 1300
Delta R.T. 0.00 min
Lab File: VN053813.D
Acq: 15 Feb 2019 21:06

Tgt Ion	Ratio	Lower	Upper
45	100		
43	57.4	44.2	66.4
87	29.2	22.7	34.1
59	12.0	9.4	14.2





#23

Vinyl Acetate

Concen: 243.402 ug/l

RT: 5.90 min Scan# 1282

Delta R.T. 0.00 min

Lab File: VN053813.D

Acq: 15 Feb 2019 21:06

Instrument :

MSVOA_N

ClientSampleId :

VSTDCCC050EC

Tot Ion: 43 Resp: 2922160

Ion Ratio Lower Upper

43 100

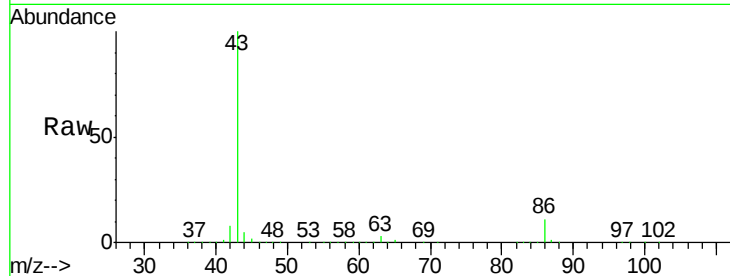
86 11.2 8.4 12.6

Manual Integrations

APPROVED

MMDadoda

2/18/2019 9:48:52 AM



Abundance Ion 43.00 (42.70 to 43.70): VN0

Ion 86.00 (85.70 to 86.70): VN0

5.90

800000

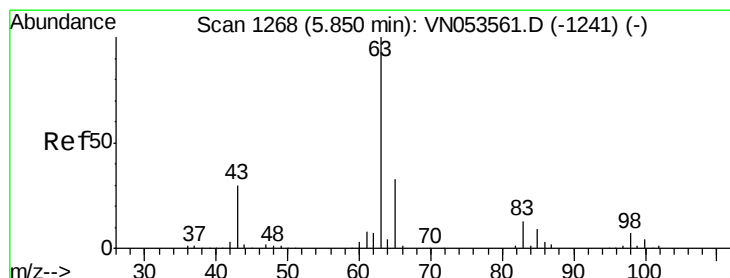
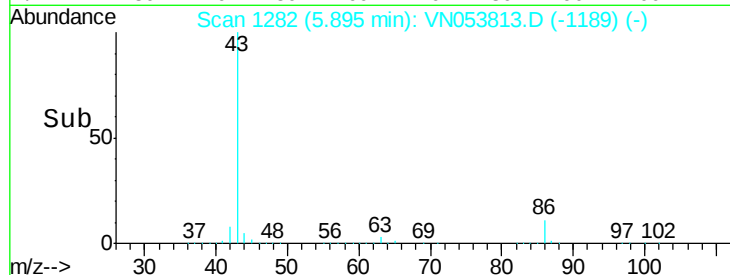
600000

400000

200000

0

Time-->



#24

1,1-Dichloroethane

Concen: 47.302 ug/l

RT: 5.85 min Scan# 1268

Delta R.T. 0.00 min

Lab File: VN053813.D

Acq: 15 Feb 2019 21:06

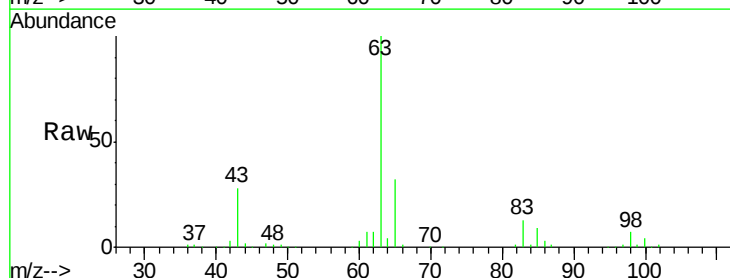
Tgt Ion: 63 Resp: 547528

Ion Ratio Lower Upper

63 100

98 6.7 3.3 9.9

100 4.2 2.1 6.5



Abundance Ion 62.90 (62.60 to 63.60): VN0

Ion 97.90 (97.60 to 98.60): VN0

Ion 99.90 (99.60 to 100.60): VN0

200000

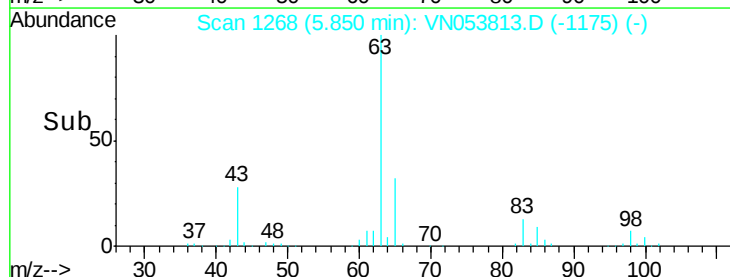
150000

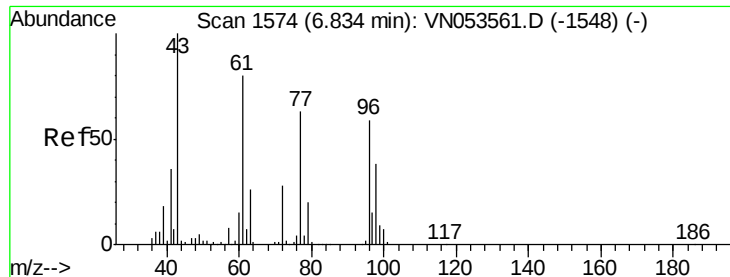
100000

50000

0

Time-->





#25

2-Butanone

Concen: 236.842 ug/l

RT: 6.83 min Scan# 1574

Delta R.T. 0.00 min

Lab File: VN053813.D

Acq: 15 Feb 2019 21:06

Instrument :

MSVOA_N

ClientSampleId :

VSTDCCC050EC

Tot Ion: 43 Resp: 552141

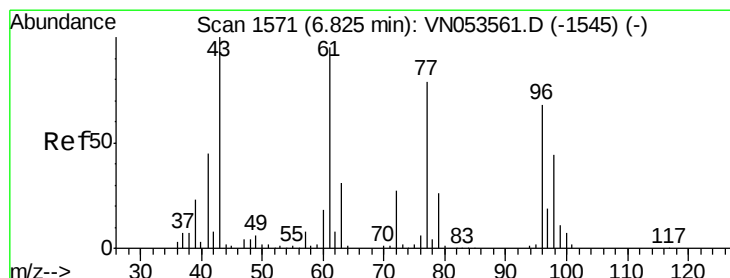
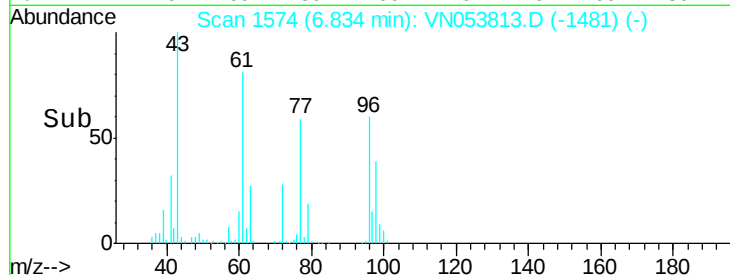
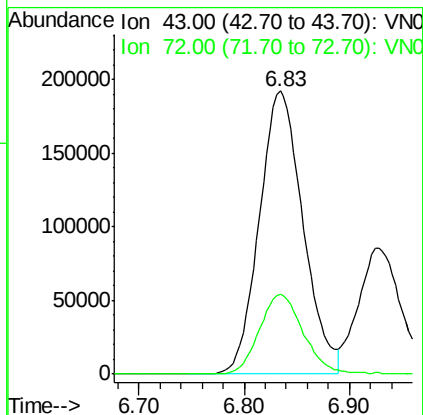
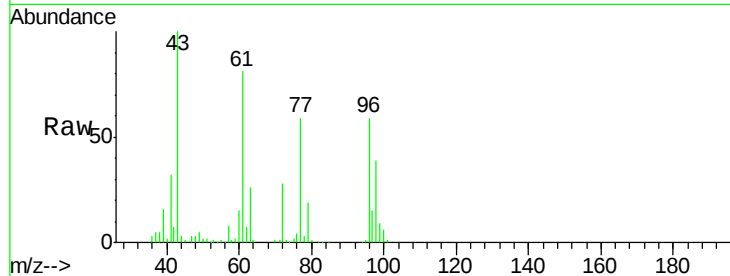
Ion Ratio Lower Upper

43 100

72 28.1 22.0 33.0

Manual Integrations
APPROVED

MMDadoda
2/18/2019 9:48:52 AM



#26

2,2-Dichloropropane

Concen: 42.686 ug/l

RT: 6.83 min Scan# 1572

Delta R.T. 0.00 min

Lab File: VN053813.D

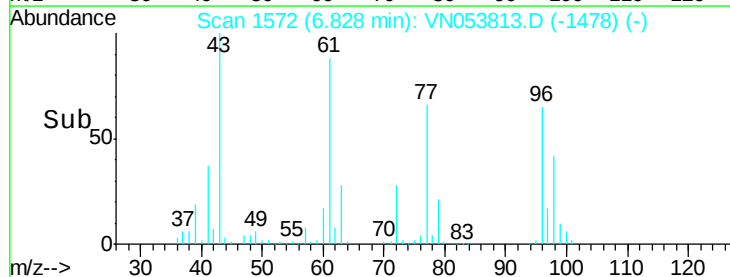
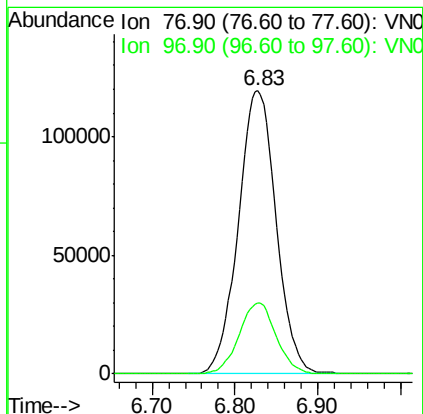
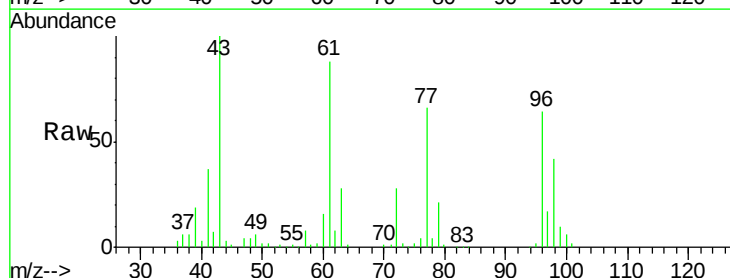
Acq: 15 Feb 2019 21:06

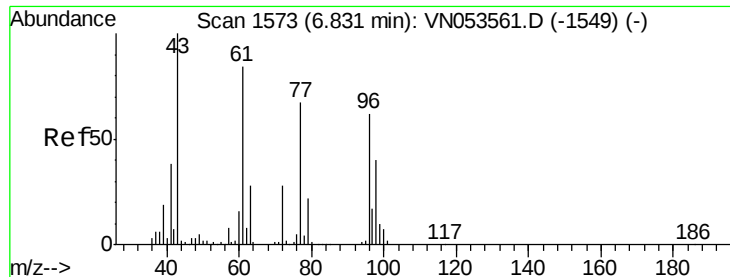
Tgt Ion: 77 Resp: 377173

Ion Ratio Lower Upper

77 100

97 24.8 12.2 36.6





#27

cis-1,2-Dichloroethene

Concen: 48.533 ug/l

RT: 6.83 min Scan# 1572

Delta R.T. -0.00 min

Lab File: VN053813.D

Acq: 15 Feb 2019 21:06

Instrument :

MSVOA_N

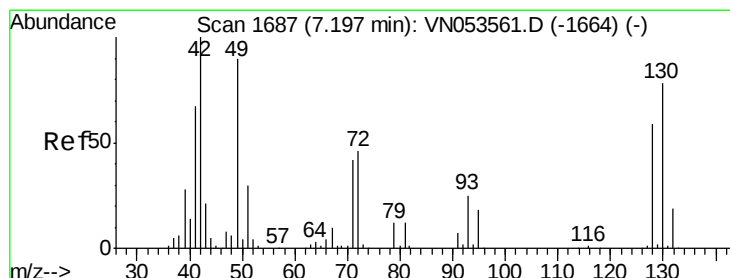
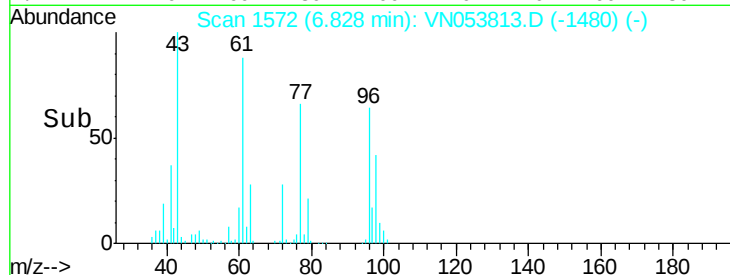
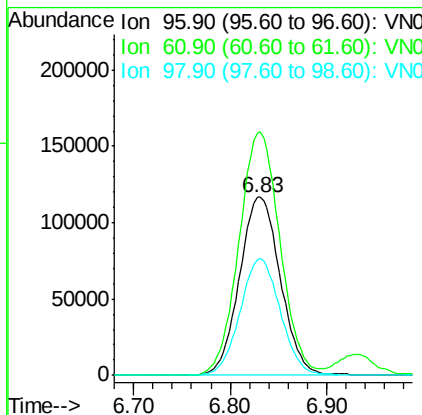
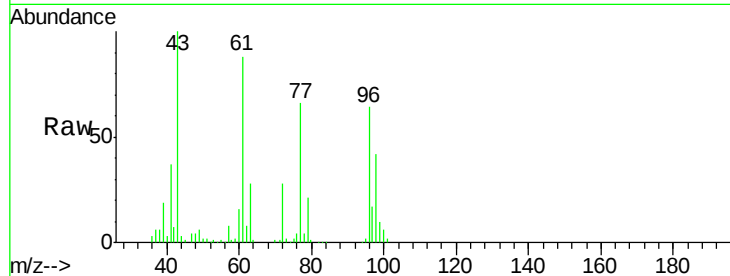
ClientSampleId :

VSTDCCC050EC

Tot Ion:	96	Resp:	342490
Ion	Ratio	Lower	Upper
96	100		
61	137.0	0.0	283.8
98	64.7	0.0	129.2

Manual Integrations
APPROVED

MMDadoda
2/18/2019 9:48:52 AM



#28

Bromochloromethane

Concen: 48.723 ug/l

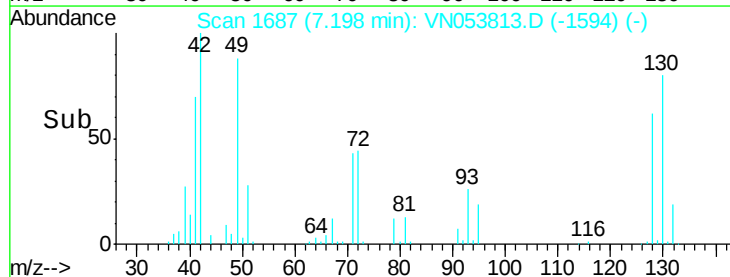
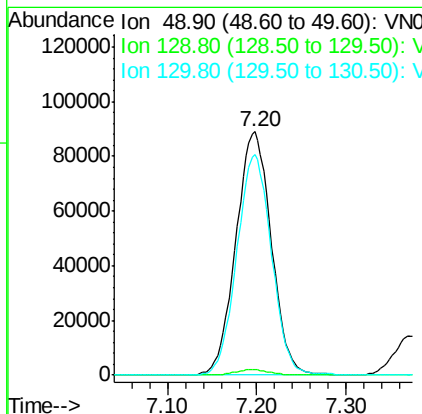
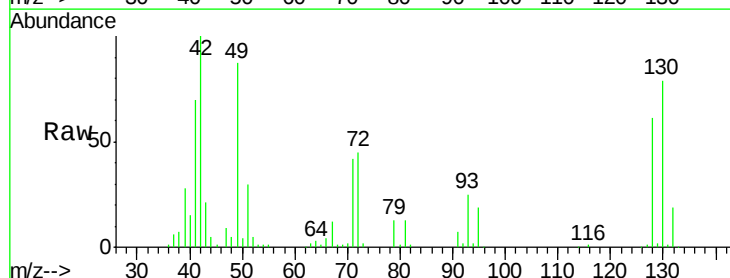
RT: 7.20 min Scan# 1687

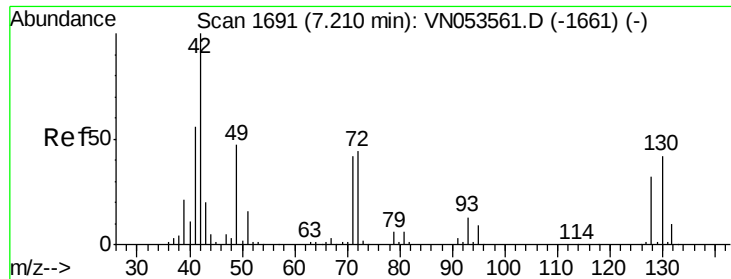
Delta R.T. 0.00 min

Lab File: VN053813.D

Acq: 15 Feb 2019 21:06

Tgt Ion:	49	Resp:	244744
Ion	Ratio	Lower	Upper
49	100		
129	2.1	0.0	4.0
130	88.8	66.3	99.5





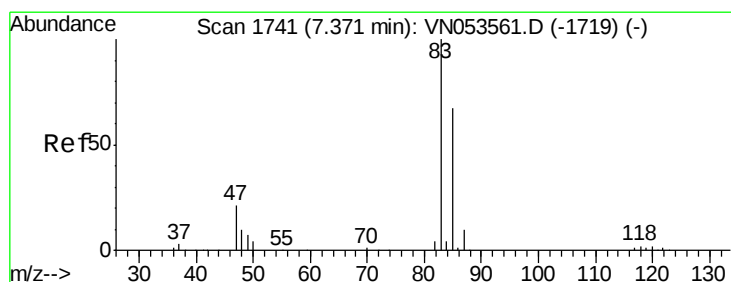
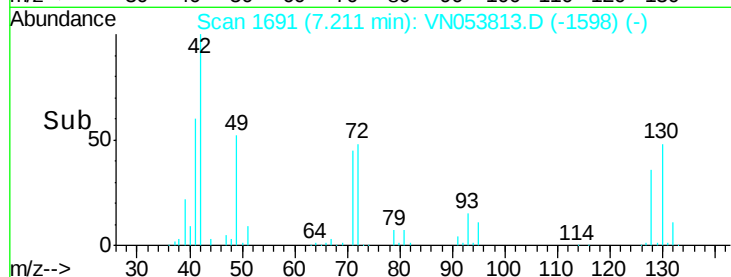
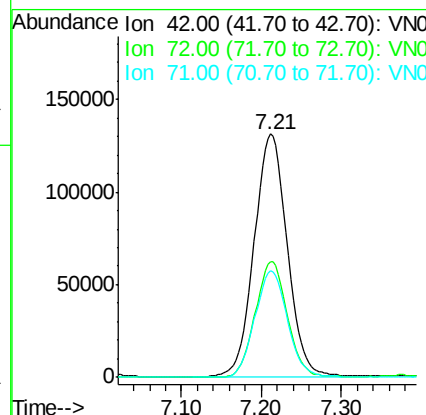
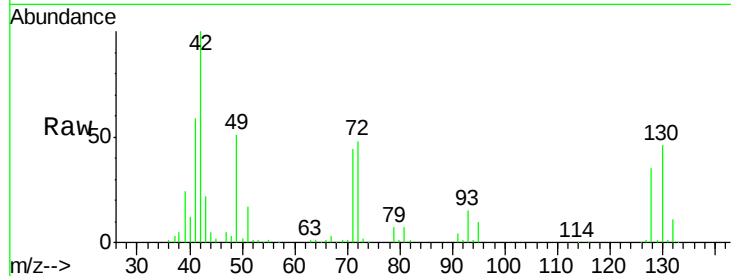
#29
Tetrahydrofuran
Concen: 248.416 ug/l
RT: 7.21 min Scan# 1691
Delta R.T. 0.00 min
Lab File: VN053813.D
Acq: 15 Feb 2019 21:06

Instrument :
MSVOA_N
ClientSampleId :
VSTDCCC050EC

Tot Ion	Ratio	Lower	Upper
42	100		
72	46.1	35.2	52.8
71	43.1	33.0	49.4

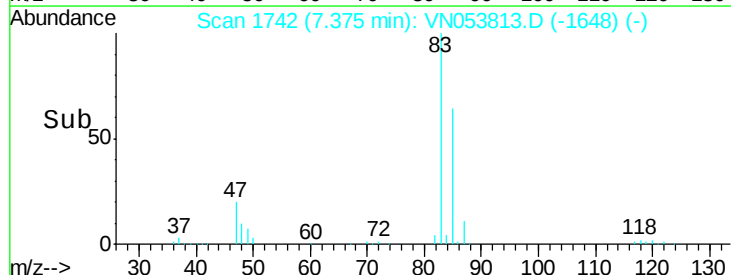
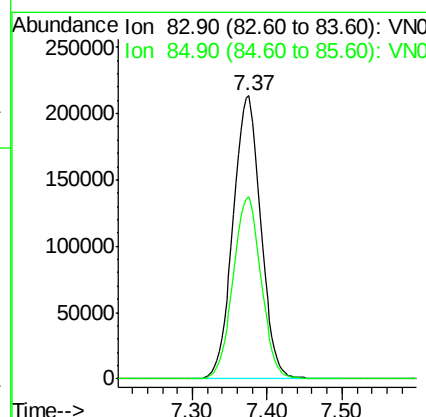
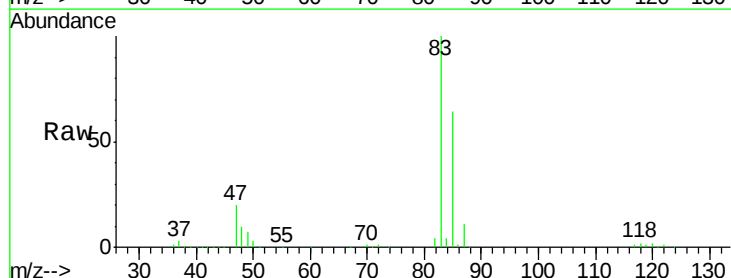
Manual Integrations
APPROVED

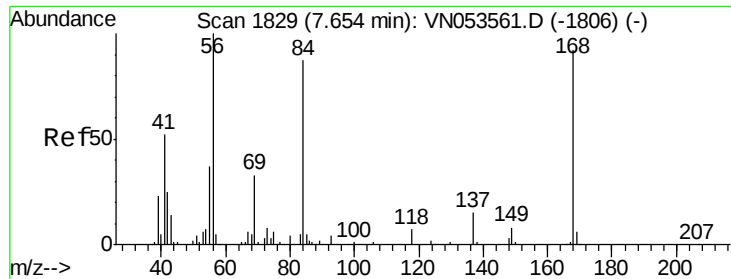
MMDadoda
2/18/2019 9:48:52 AM



#30
Chloroform
Concen: 48.087 ug/l
RT: 7.37 min Scan# 1742
Delta R.T. 0.00 min
Lab File: VN053813.D
Acq: 15 Feb 2019 21:06

Tgt Ion	Ratio	Lower	Upper
83	100		
85	64.3	52.2	78.2





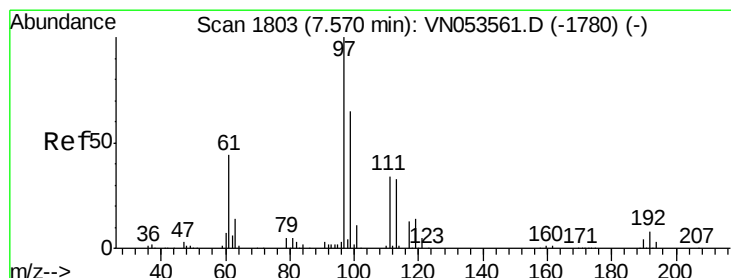
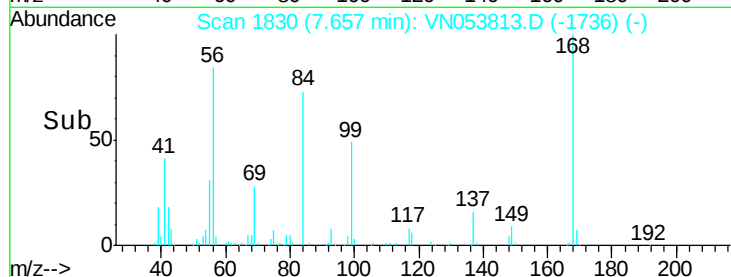
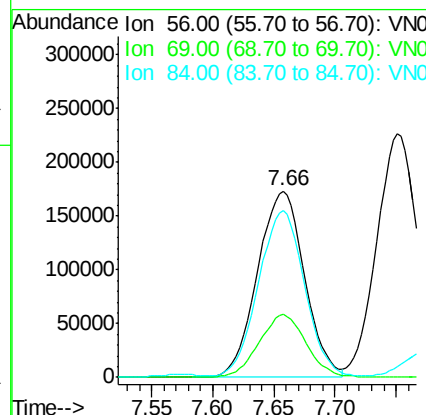
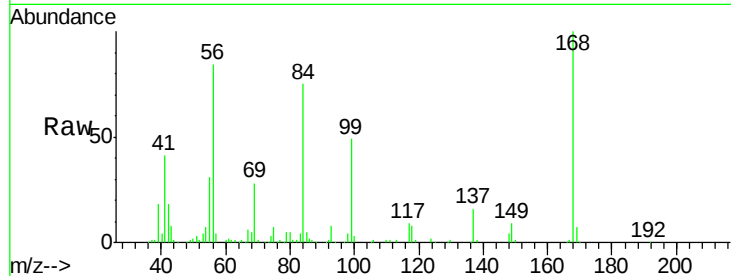
#31
Cvclohexane
Concen: 43.003 ug/l
RT: 7.66 min Scan# 1830
Delta R.T. 0.00 min
Lab File: VN053813.D
Acq: 15 Feb 2019 21:06

Instrument :
MSVOA_N
ClientSampleId :
VSTDCCC050EC

Tot Ion	Ratio	Lower	Upper
56	100		
69	33.6	26.4	39.6
84	88.1	67.9	101.9

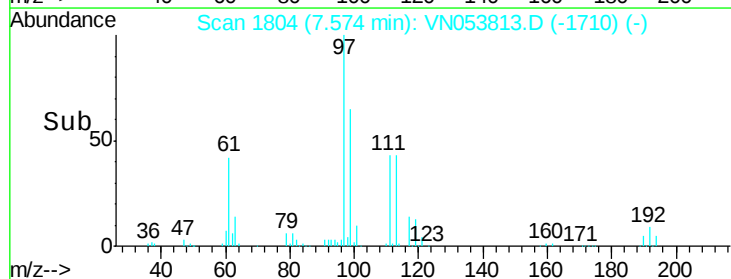
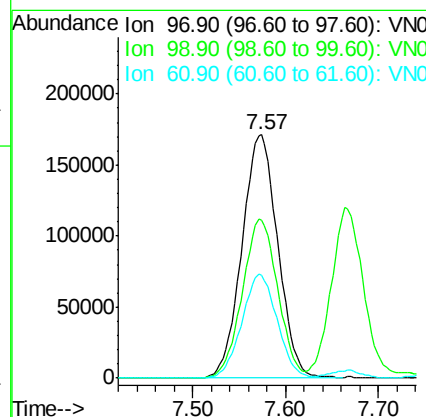
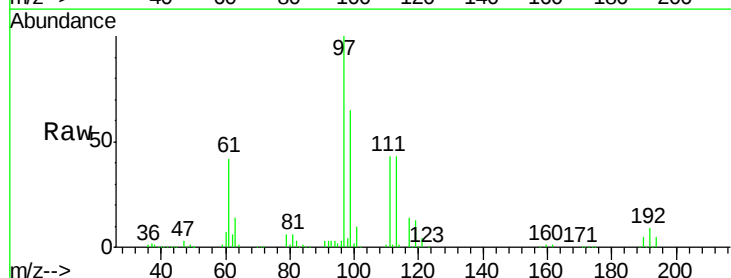
Manual Integrations
APPROVED

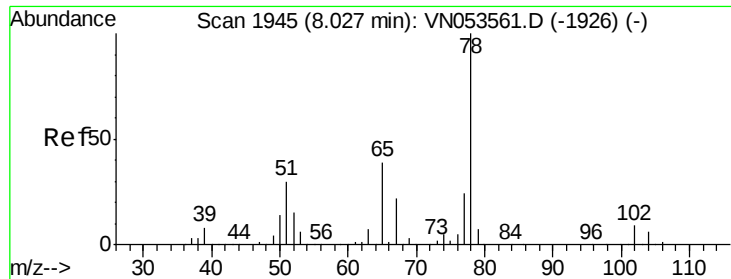
MMDadoda
2/18/2019 9:48:52 AM



#32
1,1,1-Trichloroethane
Concen: 48.084 ug/l
RT: 7.57 min Scan# 1804
Delta R.T. 0.00 min
Lab File: VN053813.D
Acq: 15 Feb 2019 21:06

Tgt Ion	Ratio	Lower	Upper
97	100		
99	64.8	52.0	78.0
61	42.1	34.4	51.6





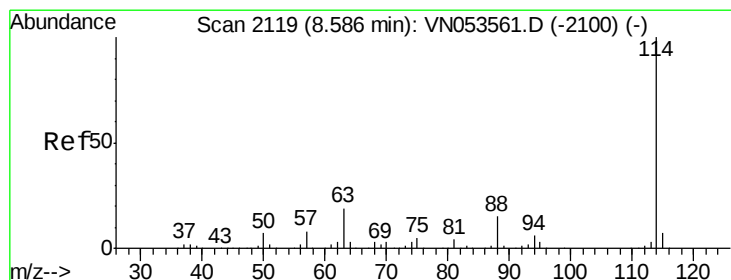
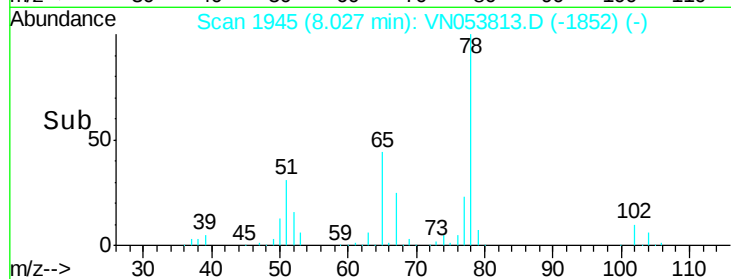
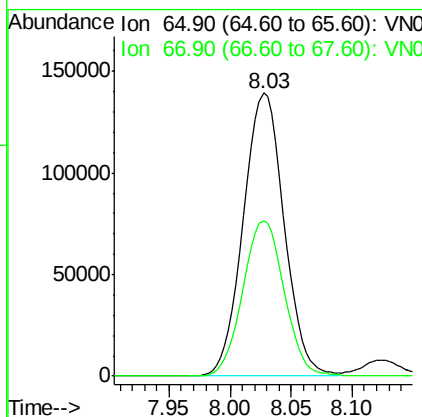
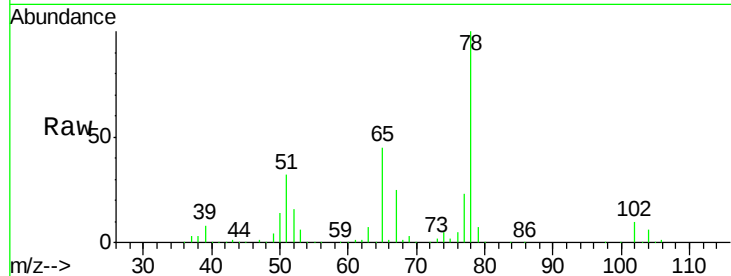
#33
 1,2-Dichloroethane-d4
 Concen: 50.701 ug/l
 RT: 8.03 min Scan# 1945
 Delta R.T. 0.00 min
 Lab File: VN053813.D
 Acq: 15 Feb 2019 21:06

Instrument :
 MSVOA_N
 ClientSampleId :
 VSTDCCC050EC

Tot Ion	Ratio	Resp	Lower	Upper
65	100	323097		
67	55.6	0.0	111.2	

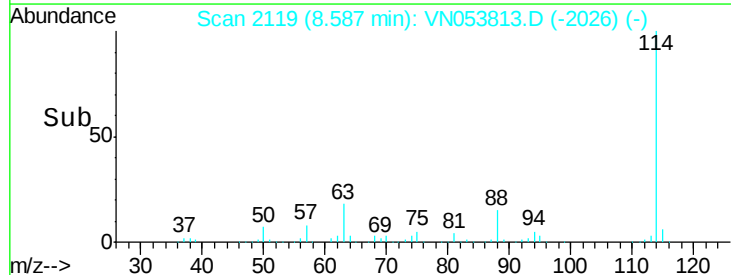
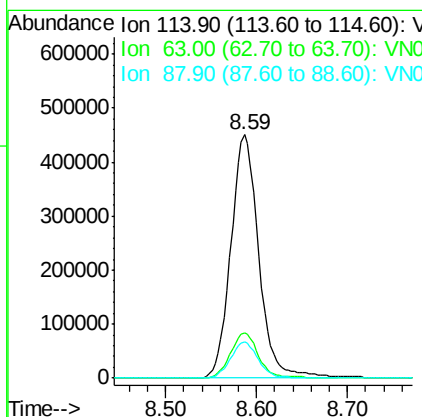
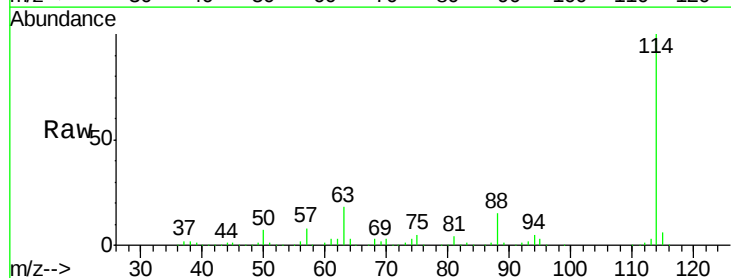
Manual Integrations
 APPROVED

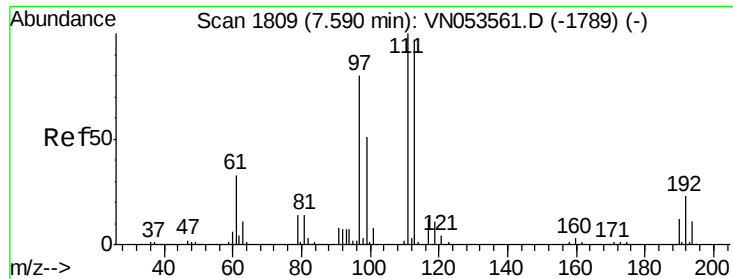
MMDadoda
 2/18/2019 9:48:52 AM



#34
 1,4-Difluorobenzene
 Concen: 50.000 ug/l
 RT: 8.59 min Scan# 2119
 Delta R.T. 0.00 min
 Lab File: VN053813.D
 Acq: 15 Feb 2019 21:06

Tgt Ion	Ratio	Resp	Lower	Upper
114	100	962814		
63	18.4	0.0	38.6	
88	15.0	0.0	30.4	





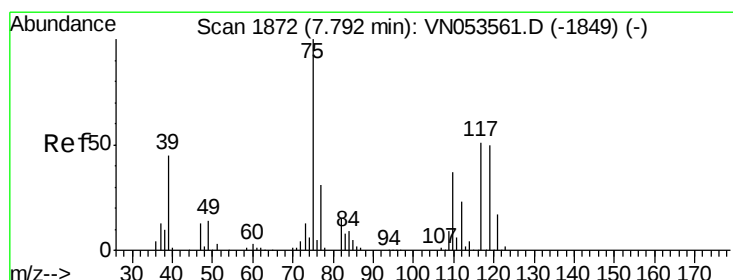
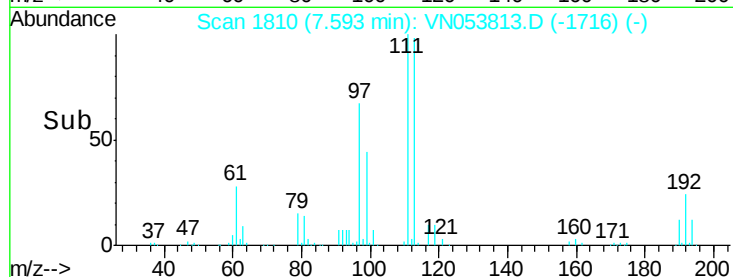
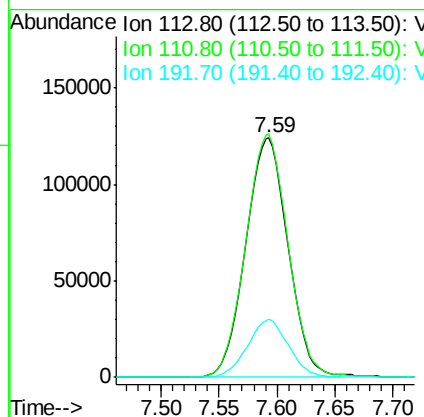
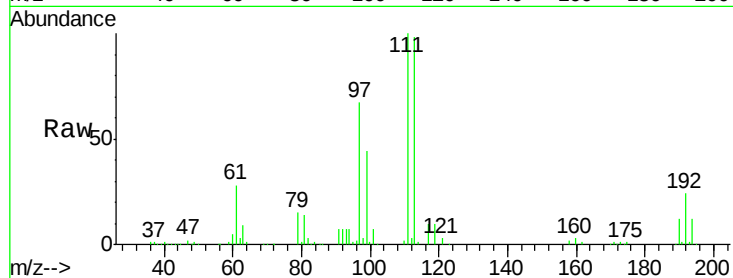
#35
 Dibromofluoromethane
 Concen: 51.569 ug/l
 RT: 7.59 min Scan# 1810
 Delta R.T. 0.00 min
 Lab File: VN053813.D
 Acq: 15 Feb 2019 21:06

Instrument :
 MSVOA_N
 ClientSampleId :
 VSTDCCC050EC

Tot Ion	Ratio	Resp	Lower	Upper
113	100			
111	102.6	81.1	121.7	
192	23.5	18.2	27.2	

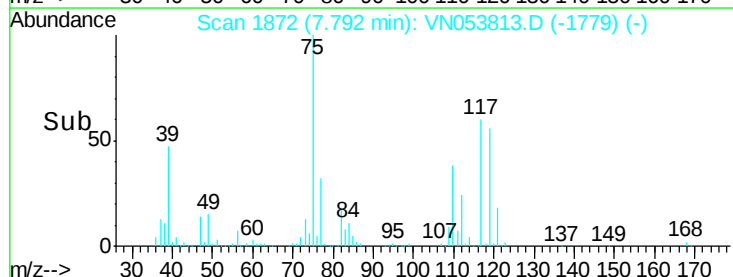
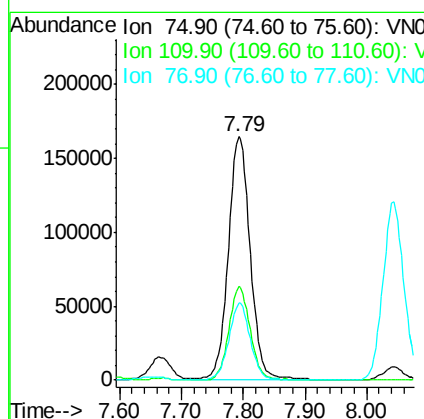
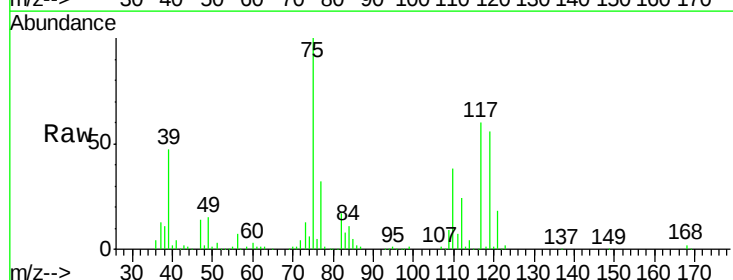
Manual Integrations
 APPROVED

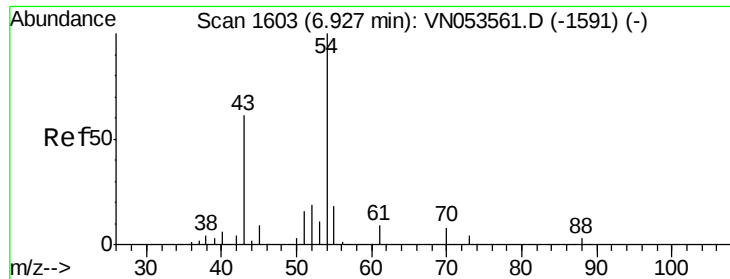
MMDadoda
 2/18/2019 9:48:52 AM



#36
 1,1-Dichloropropene
 Concen: 46.587 ug/l
 RT: 7.79 min Scan# 1872
 Delta R.T. 0.00 min
 Lab File: VN053813.D
 Acq: 15 Feb 2019 21:06

Tgt Ion	Ratio	Resp	Lower	Upper
75	100			
110	37.3	18.1	54.3	
77	31.0	25.1	37.7	





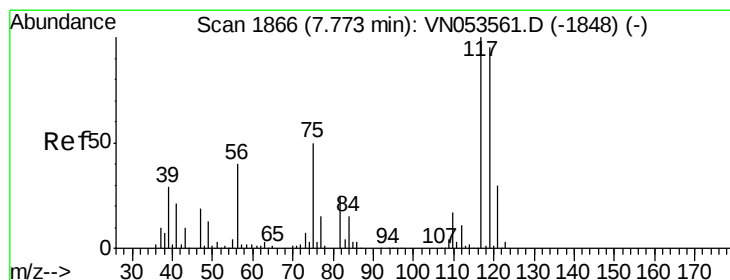
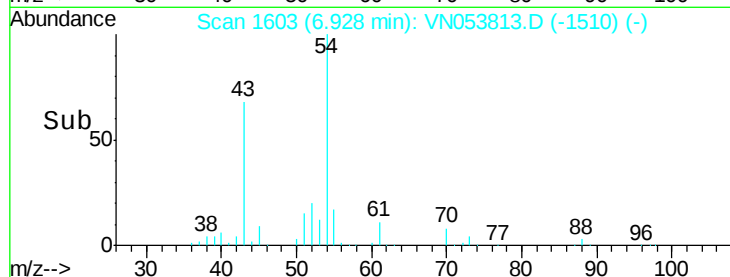
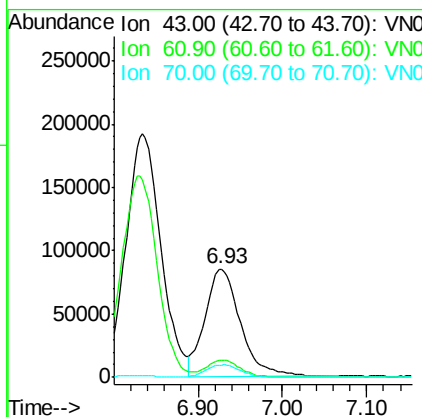
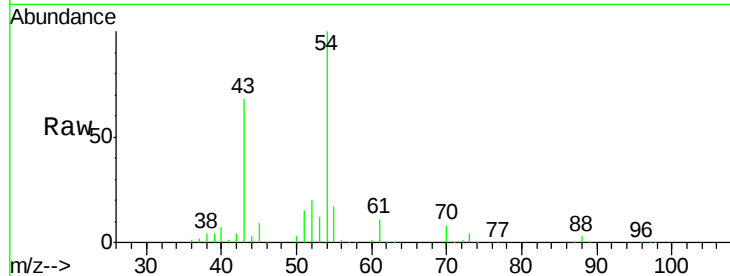
#37
Ethyl Acetate
Concen: 51.317 ug/l
RT: 6.93 min Scan# 1603
Delta R.T. 0.00 min
Lab File: VN053813.D
Acq: 15 Feb 2019 21:06

Instrument :
MSVOA_N
ClientSampleId :
VSTDCCC050EC

Tot Ion	43	61	70
Resp	248751		
Ratio	100	15.1	11.3
Lower		11.8	8.6
Upper		17.6	12.8

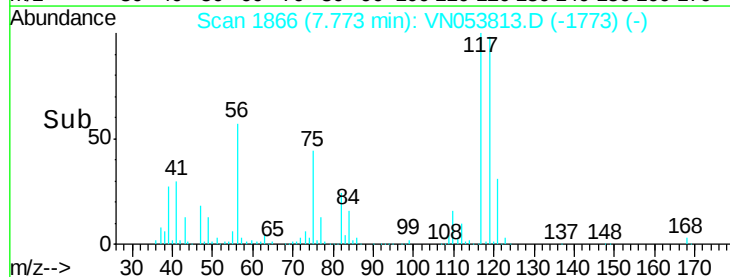
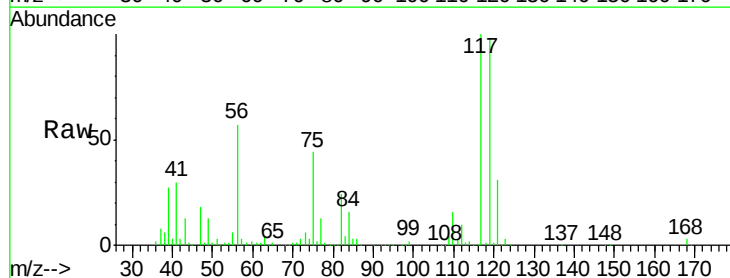
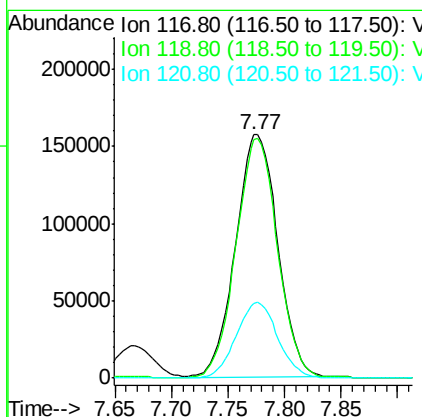
Manual Integrations
APPROVED

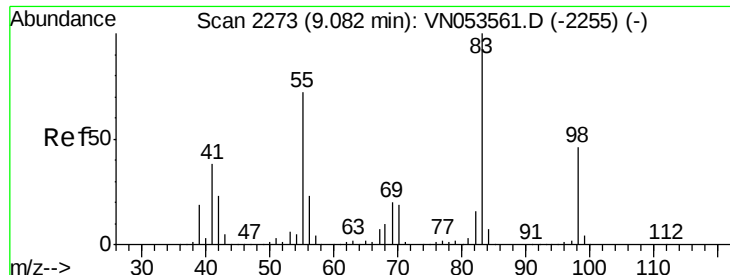
MMDadoda
2/18/2019 9:48:52 AM



#38
Carbon Tetrachloride
Concen: 46.499 ug/l
RT: 7.77 min Scan# 1866
Delta R.T. 0.00 min
Lab File: VN053813.D
Acq: 15 Feb 2019 21:06

Tgt Ion	117	119	121
Resp	406553		
Ratio	100	98.3	30.9
Lower		77.2	24.6
Upper		115.8	37.0





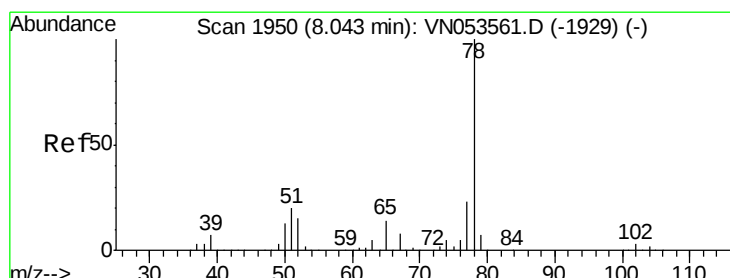
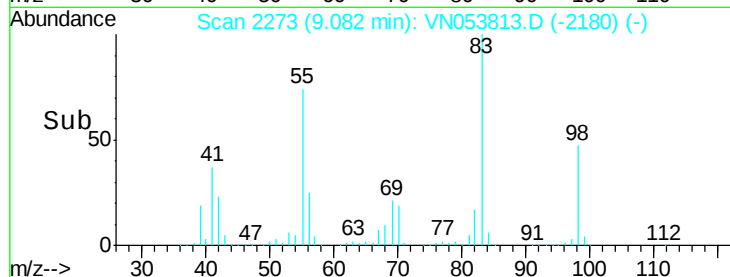
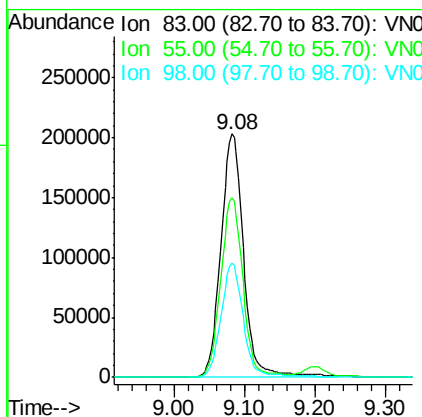
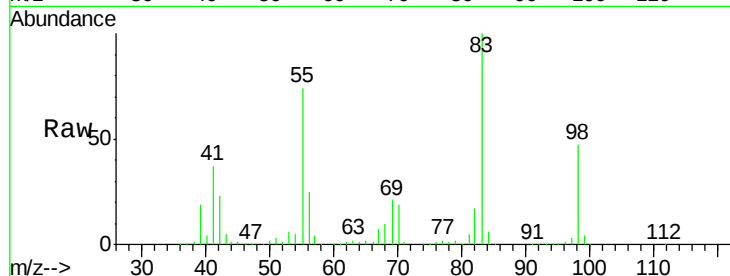
#39
Methvlcvclohexane
Concen: 44.587 ug/l
RT: 9.08 min Scan# 2273
Delta R.T. 0.00 min
Lab File: VN053813.D
Acq: 15 Feb 2019 21:06

Instrument :
MSVOA_N
ClientSampleId :
VSTDCCC050EC

Tot Ion	Ratio	Resp	Lower	Upper
83	100			
55	74.0		60.1	90.1
98	47.0		36.6	55.0

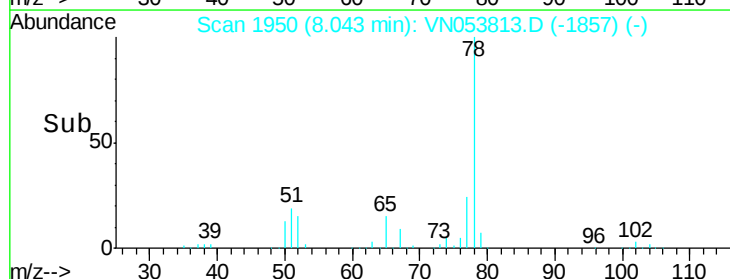
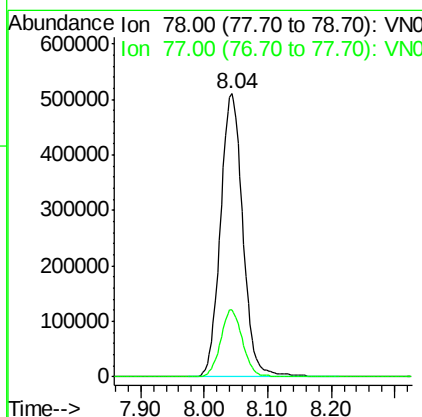
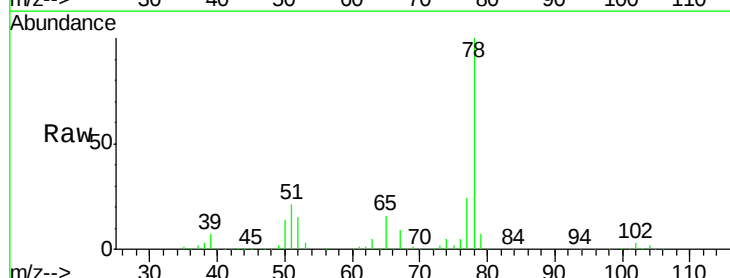
Manual Integrations
APPROVED

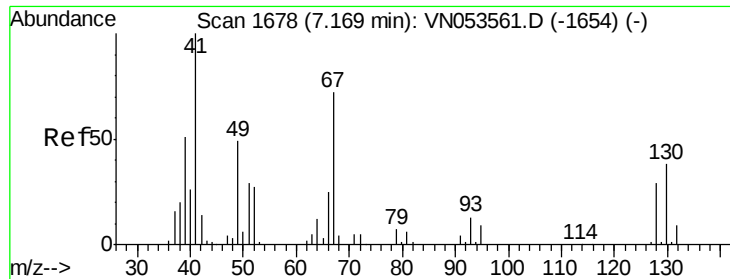
MMDadoda
2/18/2019 9:48:52 AM



#40
Benzene
Concen: 46.720 ug/l
RT: 8.04 min Scan# 1950
Delta R.T. 0.00 min
Lab File: VN053813.D
Acq: 15 Feb 2019 21:06

Tgt Ion	Ratio	Resp	Lower	Upper
78	100			
77	23.7		18.8	28.2





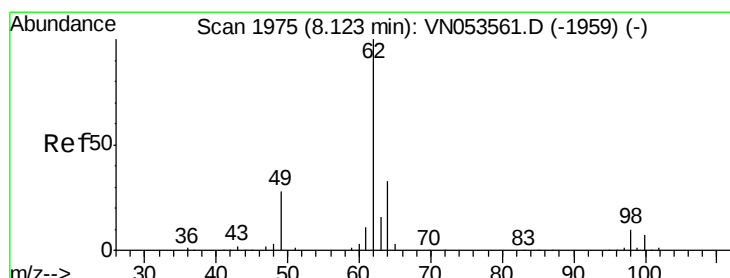
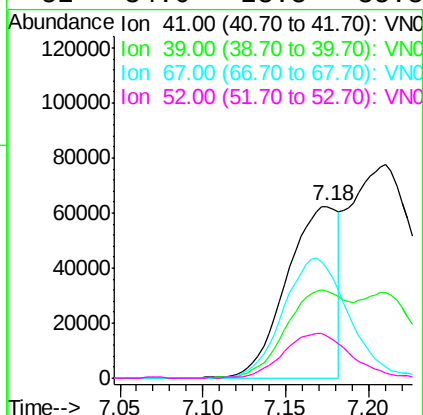
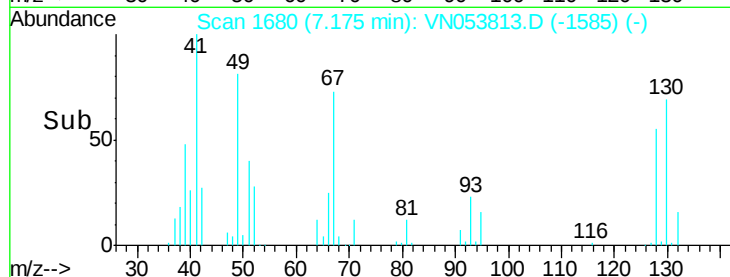
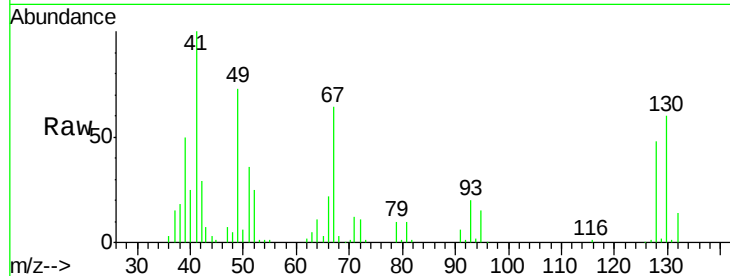
#41
Methacrylonitrile
Concen: 49.493 ug/l
RT: 7.18 min Scan# 1680
Delta R.T. 0.01 min
Lab File: VN053813.D
Acq: 15 Feb 2019 21:06

Instrument :
MSVOA_N
ClientSampleId :
VSTDCCC050EC

Tot Ion	Ion	Ratio	Lower	Upper
41	100			
39	63.4	46.8	70.2	
67	89.9	63.0	94.6	
52	34.0	23.8	35.8	

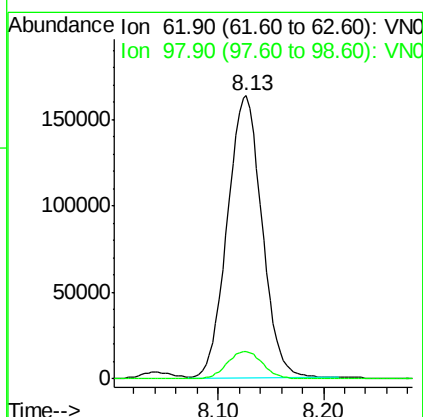
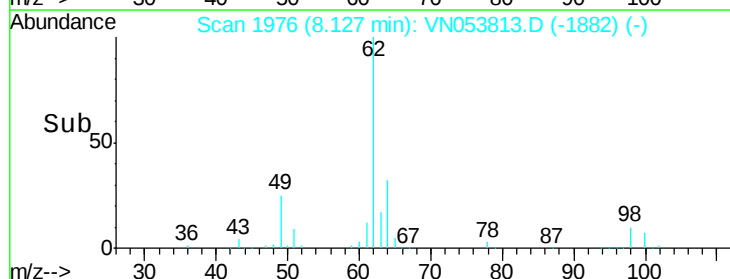
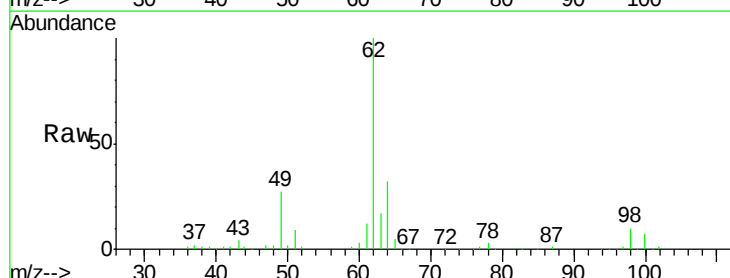
Manual Integrations
APPROVED

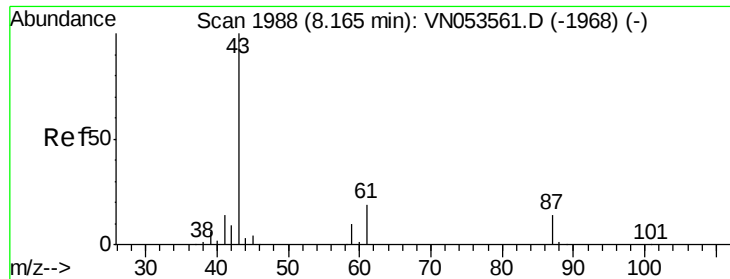
MMDadoda
2/18/2019 9:48:52 AM



#42
1,2-Dichloroethane
Concen: 46.740 ug/l
RT: 8.13 min Scan# 1976
Delta R.T. 0.00 min
Lab File: VN053813.D
Acq: 15 Feb 2019 21:06

Tgt Ion	Ion	Ratio	Lower	Upper
62	100			
98	10.0	0.0	19.6	





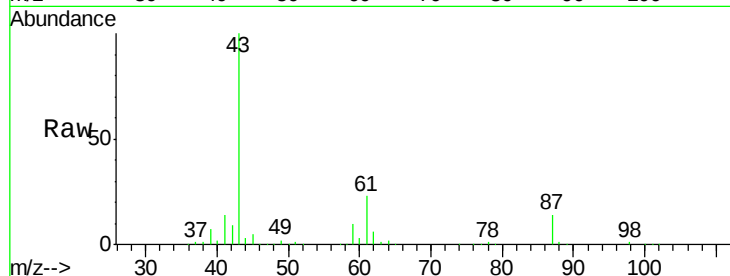
#43
Isopropyl Acetate
Concen: 47.466 ug/l
RT: 8.16 min Scan# 1987
Delta R.T. -0.00 min
Lab File: VN053813.D
Acq: 15 Feb 2019 21:06

Instrument :
MSVOA_N
ClientSampleId :
VSTDCCC050EC

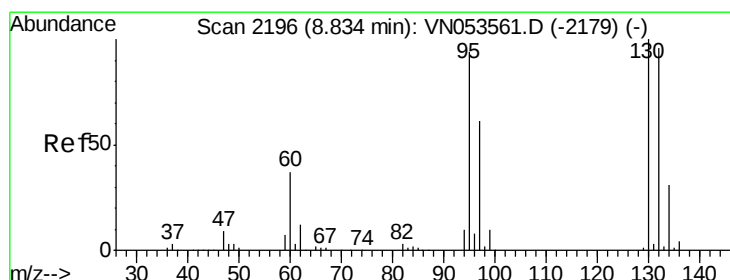
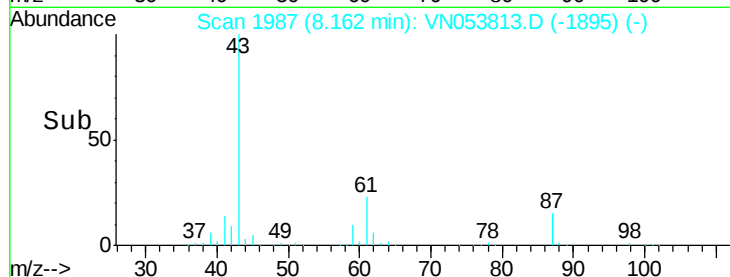
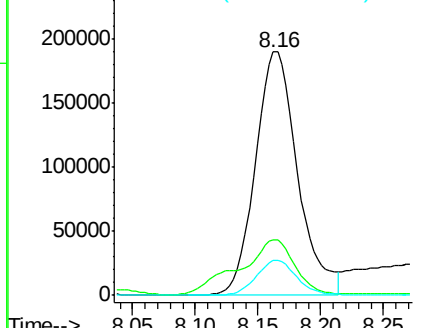
Tot Ion	Ratio	Lower	Upper
43	100		
61	30.3	23.9	35.9
87	13.9	11.0	16.6

Manual Integrations
APPROVED

MMDadoda
2/18/2019 9:48:52 AM

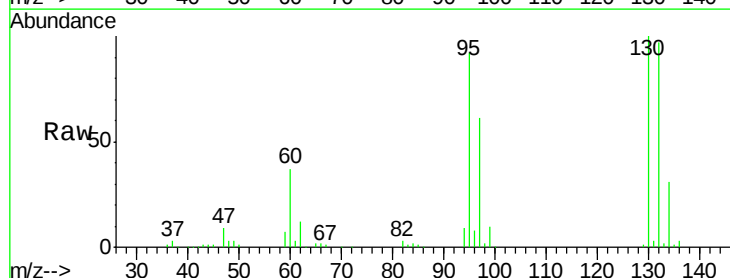


Abundance Ion 43.00 (42.70 to 43.70): VN053813.D (-1895) (-)
Ion 61.00 (60.70 to 61.70): VN053813.D (-1895) (-)
Ion 87.00 (86.70 to 87.70): VN053813.D (-1895) (-)

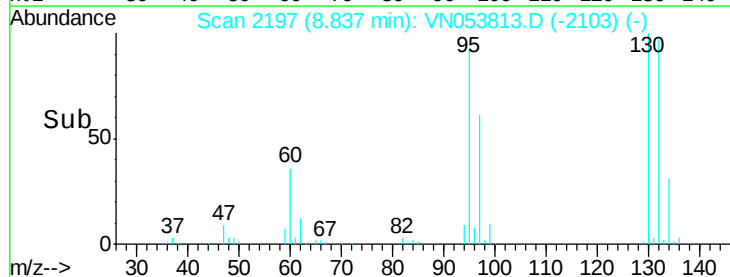
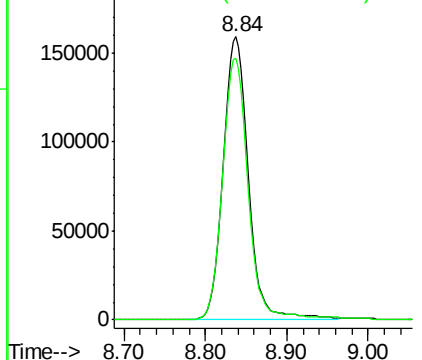


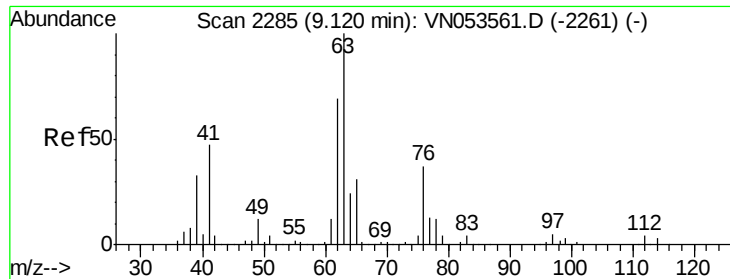
#44
Trichloroethene
Concen: 45.981 ug/l
RT: 8.84 min Scan# 2197
Delta R.T. 0.00 min
Lab File: VN053813.D
Acq: 15 Feb 2019 21:06

Tgt Ion	Ratio	Lower	Upper
130	100		
95	92.3	0.0	191.4



Abundance Ion 129.80 (129.50 to 130.50): VN053813.D (-2103) (-)
Ion 94.90 (94.60 to 95.60): VN053813.D (-2103) (-)





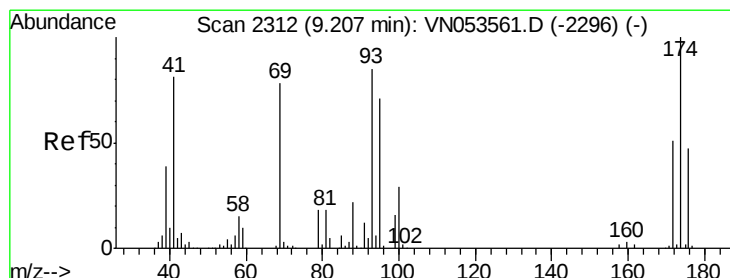
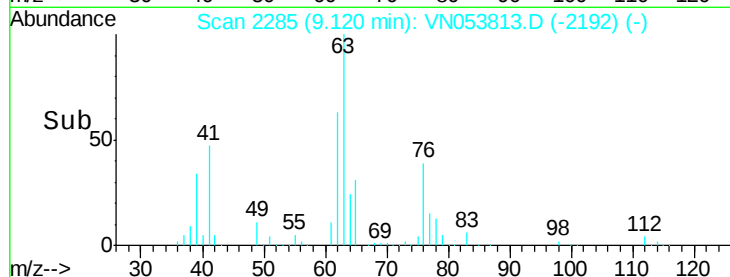
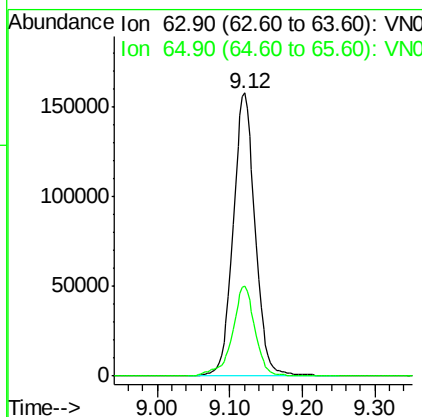
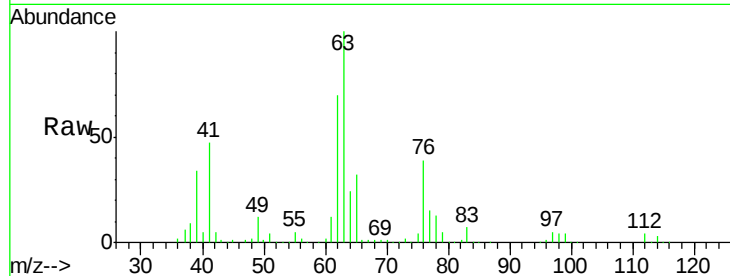
#45
 1,2-Dichloropropane
 Concen: 48.628 ug/l
 RT: 9.12 min Scan# 2285
 Delta R.T. 0.00 min
 Lab File: VN053813.D
 Acq: 15 Feb 2019 21:06

Instrument :
 MSVOA_N
 ClientSampleId :
 VSTDCCC050EC

Tot Ion	Ratio	Lower	Upper
63	100		
65	31.9	25.0	37.4

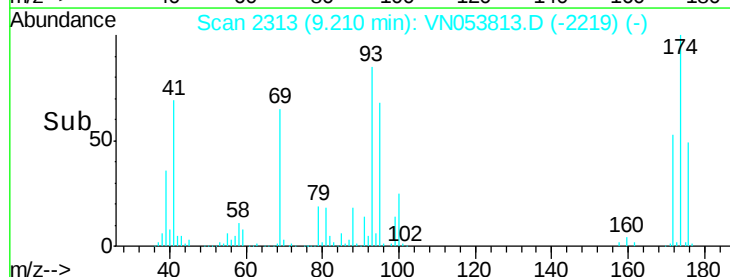
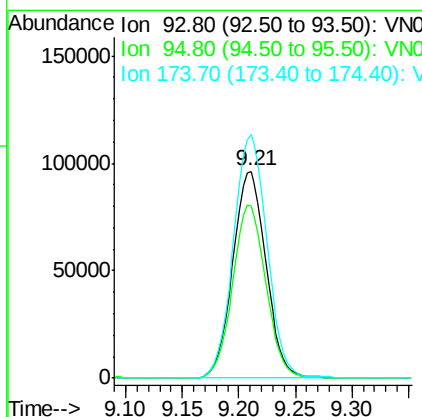
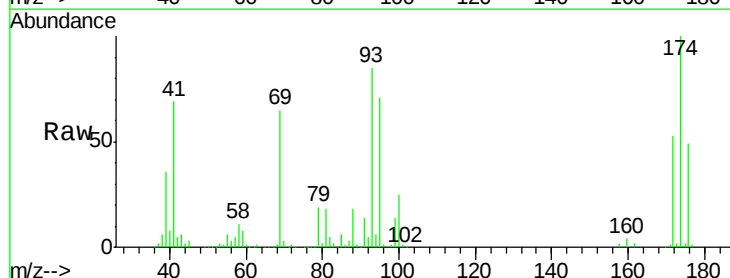
Manual Integrations
 APPROVED

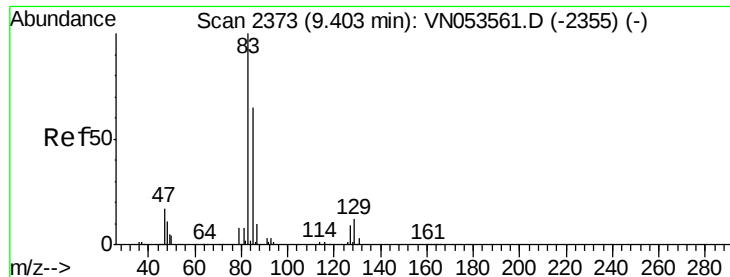
MMDadoda
 2/18/2019 9:48:52 AM



#46
 Dibromomethane
 Concen: 47.836 ug/l
 RT: 9.21 min Scan# 2313
 Delta R.T. 0.00 min
 Lab File: VN053813.D
 Acq: 15 Feb 2019 21:06

Tgt Ion	Ratio	Lower	Upper
93	100		
95	83.7	67.3	100.9
174	119.0	91.0	136.4





#47

Bromodichloromethane

Concen: 49.305 ug/l

RT: 9.40 min Scan# 2373

Delta R.T. 0.00 min

Lab File: VN053813.D

Acq: 15 Feb 2019 21:06

Instrument :

MSVOA_N

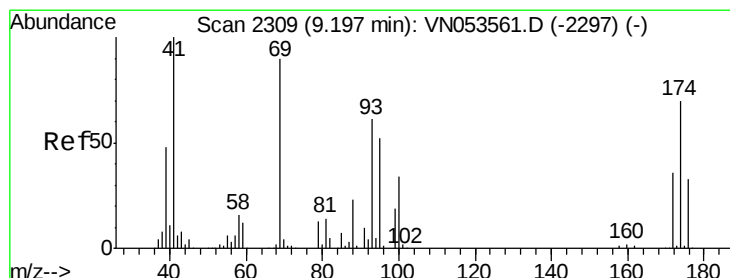
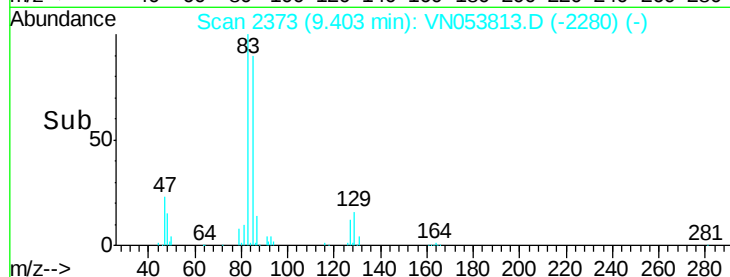
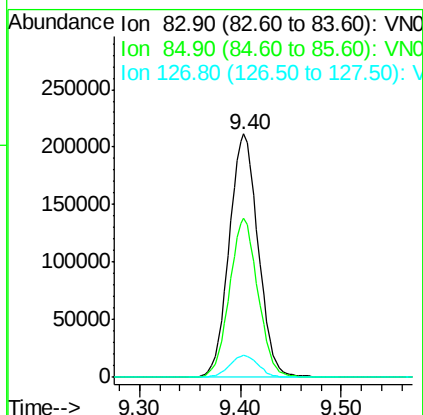
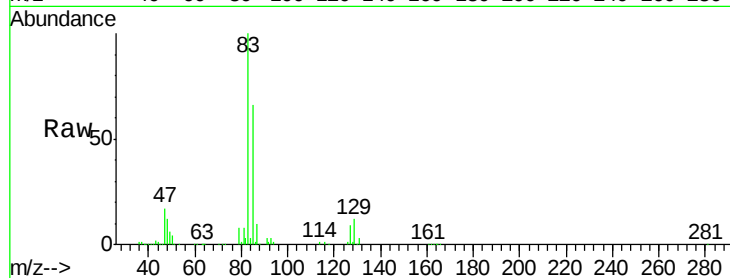
ClientSampleId :

VSTDCCC050EC

Tot Ion:	83	Resp:	423037
Ion Ratio	Lower	Upper	
83	100		
85	65.5	51.0	76.6
127	8.9	7.0	10.6

Manual Integrations
APPROVED

MMDadoda
2/18/2019 9:48:52 AM



#48

Methyl methacrylate

Concen: 47.533 ug/l

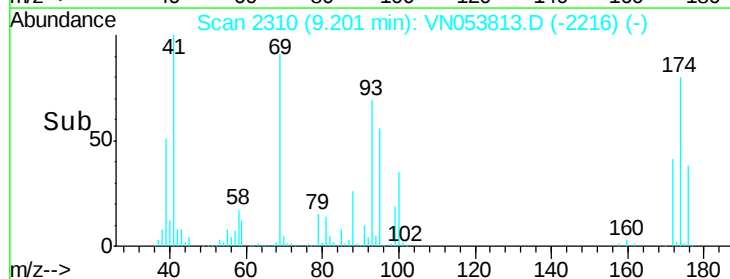
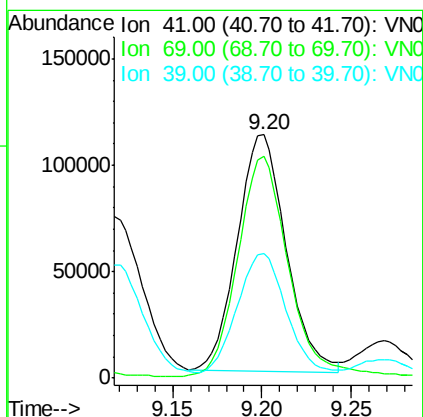
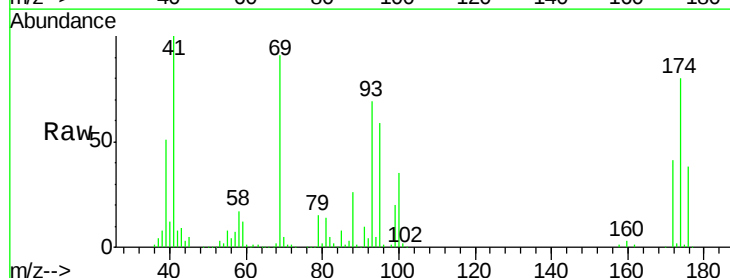
RT: 9.20 min Scan# 2310

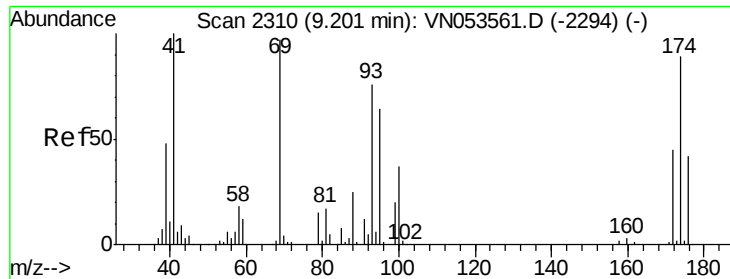
Delta R.T. 0.00 min

Lab File: VN053813.D

Acq: 15 Feb 2019 21:06

Tgt Ion:	41	Resp:	212402
Ion Ratio	Lower	Upper	
41	100		
69	99.1	73.8	110.6
39	54.8	40.0	60.0





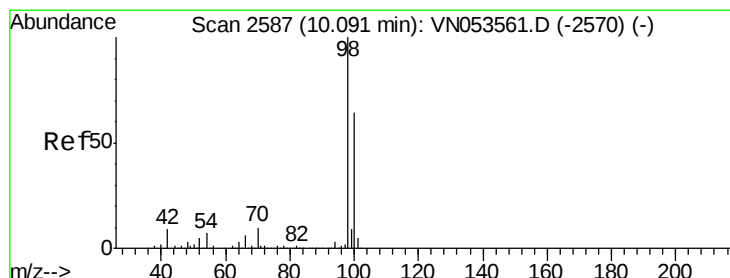
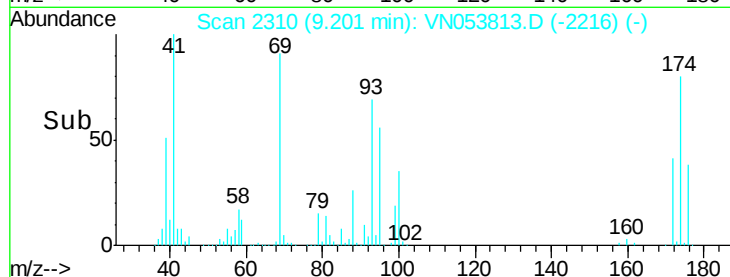
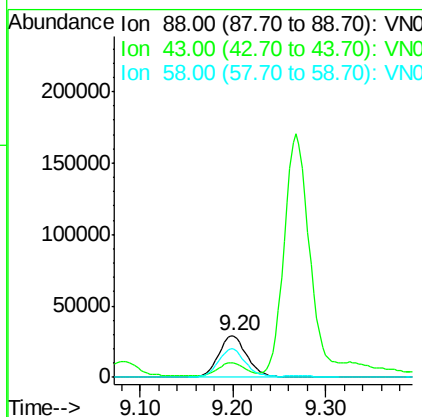
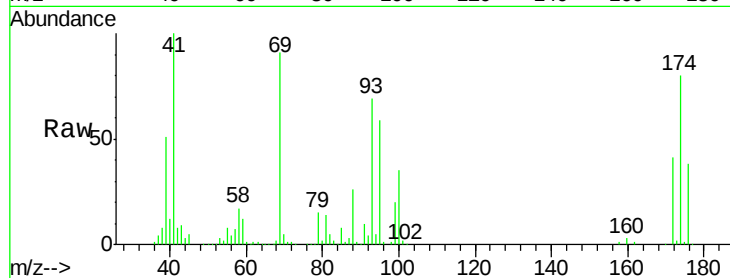
#49
1,4-Dioxane
Concen: 967.974 ug/l
RT: 9.20 min Scan# 2310
Delta R.T. 0.00 min
Lab File: VN053813.D
Acq: 15 Feb 2019 21:06

Instrument :
MSVOA_N
ClientSampleId :
VSTDCCC050EC

Tot Ion	88	Resp	62591
Ion	Ratio	Lower	Upper
88	100		
43	28.8	27.8	41.6
58	65.8	56.5	84.7

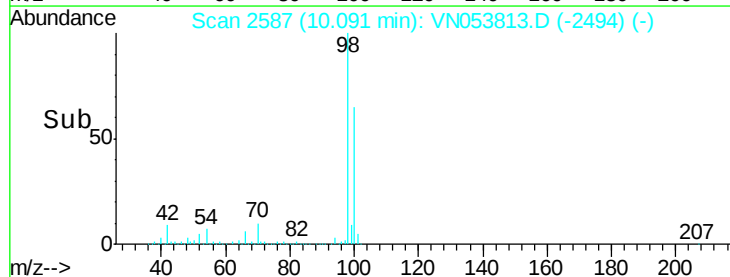
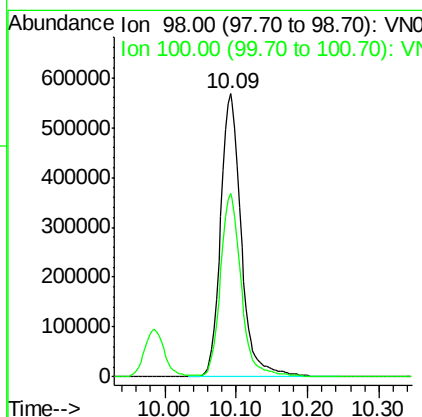
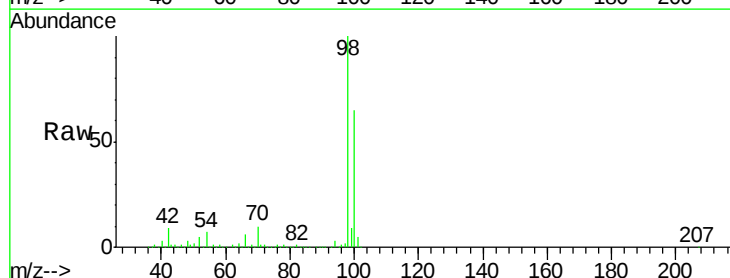
Manual Integrations
APPROVED

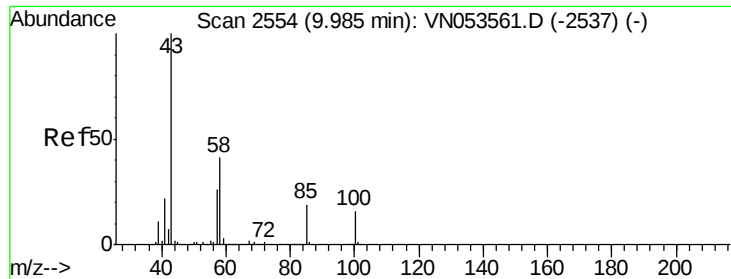
MMDadoda
2/18/2019 9:48:52 AM



#50
Toluene-d8
Concen: 49.893 ug/l
RT: 10.09 min Scan# 2587
Delta R.T. 0.00 min
Lab File: VN053813.D
Acq: 15 Feb 2019 21:06

Tgt Ion	98	Resp	1139719
Ion	Ratio	Lower	Upper
98	100		
100	65.3	51.4	77.0





#51

4-Methyl-2-Pentanone

Concen: 258.733 ug/l

RT: 9.99 min Scan# 2554

Delta R.T. 0.00 min

Lab File: VN053813.D

Acq: 15 Feb 2019 21:06

Instrument :

MSVOA_N

ClientSampleId :

VSTDCCC050EC

Tot Ion: 43 Resp: 1190211

Ion Ratio Lower Upper

43 100

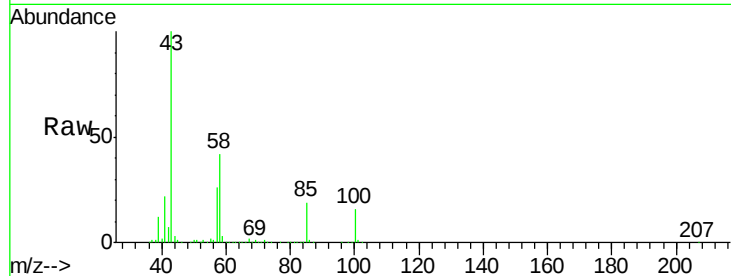
58 41.1 32.8 49.2

Manual Integrations

APPROVED

MMDadoda

2/18/2019 9:48:52 AM



Abundance Ion 43.00 (42.70 to 43.70): VN0

Ion 58.00 (57.70 to 58.70): VN0

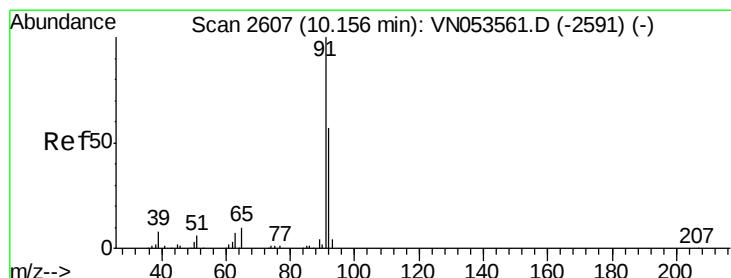
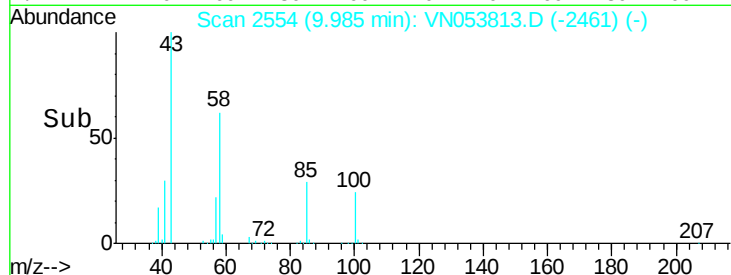
600000

400000

200000

0

Time-->



#52

Toluene

Concen: 47.329 ug/l

RT: 10.16 min Scan# 2607

Delta R.T. 0.00 min

Lab File: VN053813.D

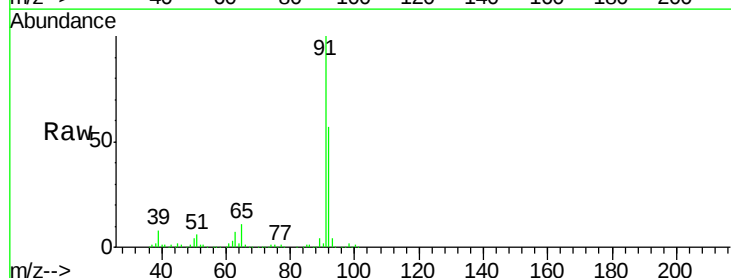
Acq: 15 Feb 2019 21:06

Tgt Ion: 92 Resp: 751803

Ion Ratio Lower Upper

92 100

91 175.8 139.9 209.9



Abundance Ion 92.00 (91.70 to 92.70): VN0

Ion 91.00 (90.70 to 91.70): VN0

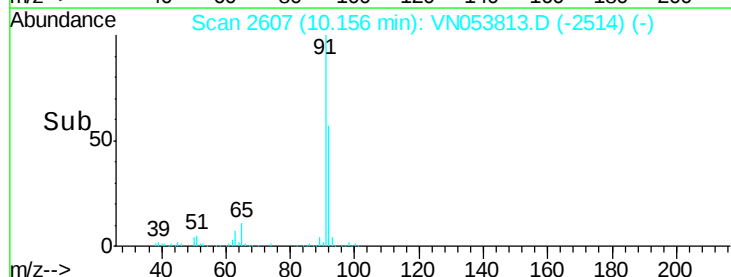
600000

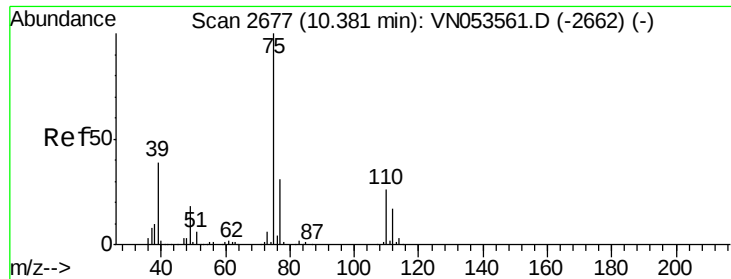
400000

200000

0

Time-->





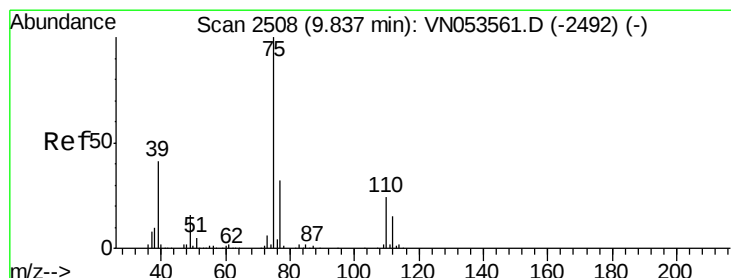
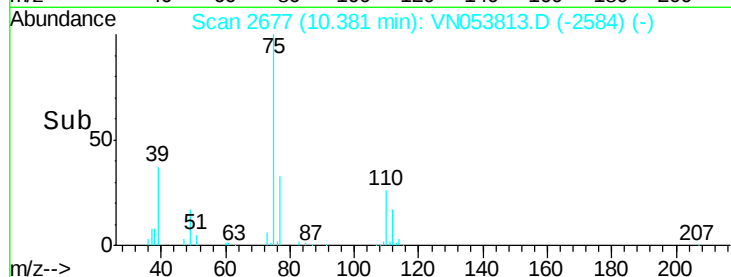
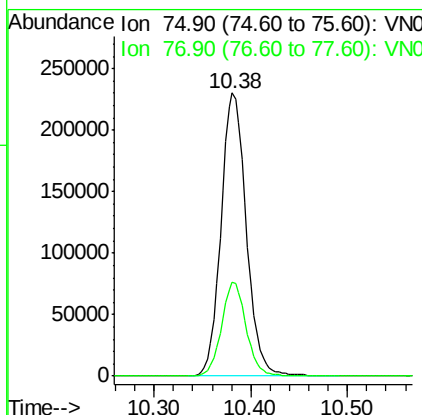
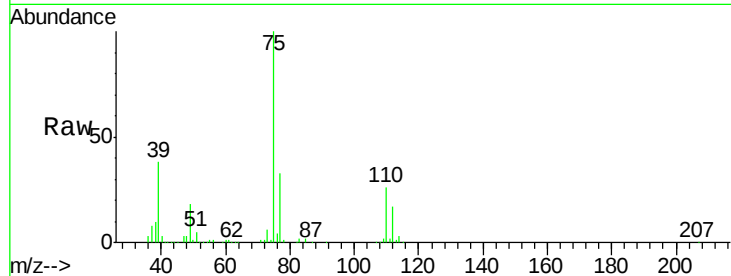
#53
t-1,3-Dichloropropene
Concen: 48.599 ug/l
RT: 10.38 min Scan# 2677
Delta R.T. 0.00 min
Lab File: VN053813.D
Acq: 15 Feb 2019 21:06

Instrument :
MSVOA_N
ClientSampleId :
VSTDCCC050EC

Tot Ion: 75 Resp: 417546
Ion Ratio Lower Upper
75 100
77 32.9 25.5 38.3

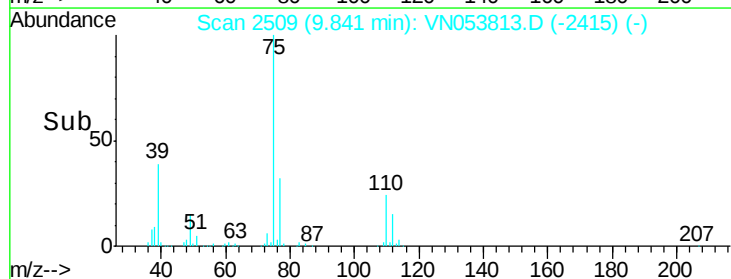
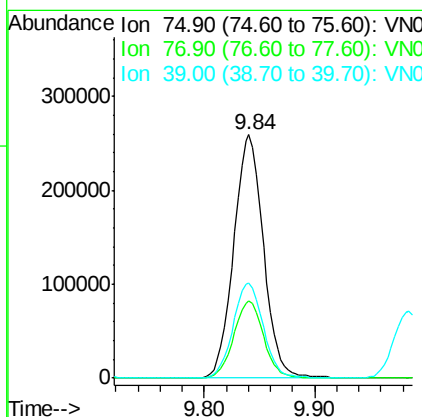
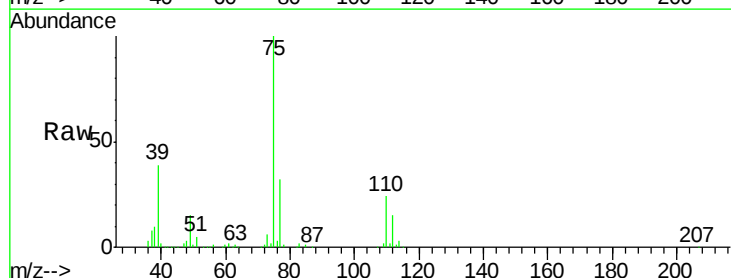
Manual Integrations
APPROVED

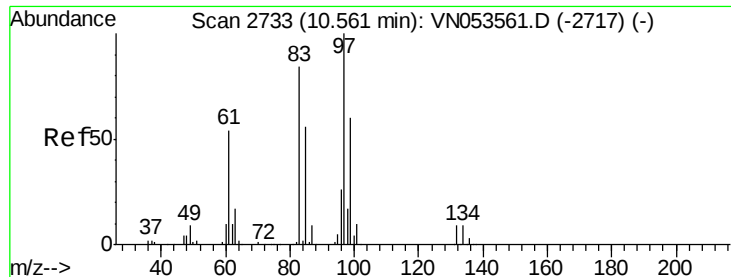
MMDadoda
2/18/2019 9:48:52 AM



#54
cis-1,3-Dichloropropene
Concen: 47.652 ug/l
RT: 9.84 min Scan# 2509
Delta R.T. 0.00 min
Lab File: VN053813.D
Acq: 15 Feb 2019 21:06

Tgt Ion: 75 Resp: 485143
Ion Ratio Lower Upper
75 100
77 31.7 25.8 38.6
39 39.2 33.4 50.0





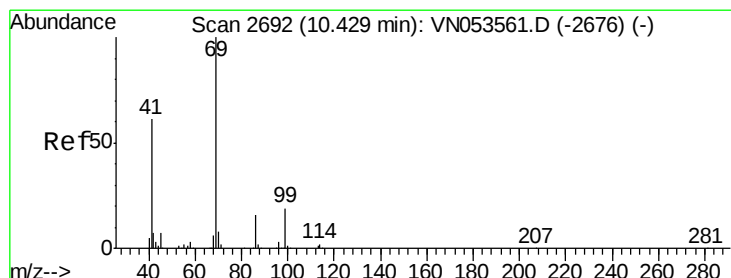
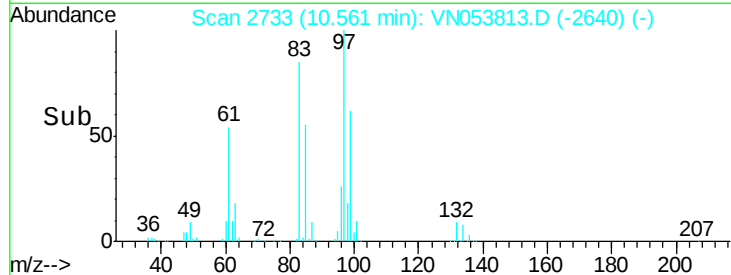
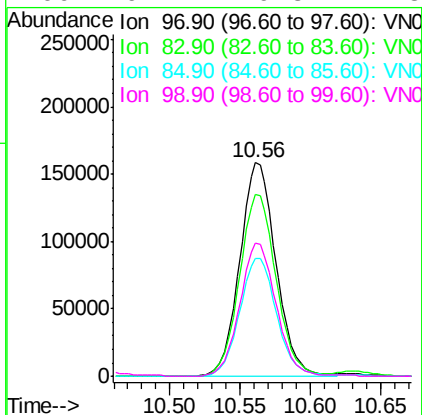
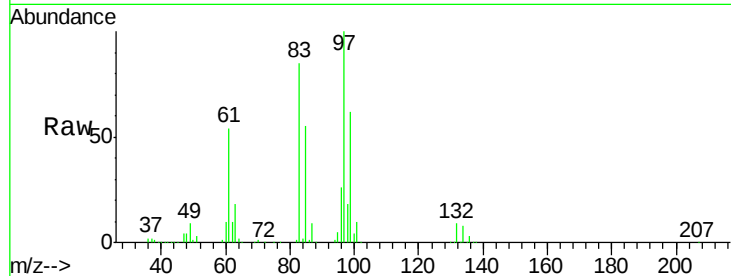
#55
 1,1,2-Trichloroethane
 Concen: 49.840 ug/l
 RT: 10.56 min Scan# 2733
 Delta R.T. 0.00 min
 Lab File: VN053813.D
 Acq: 15 Feb 2019 21:06

Instrument :
 MSVOA_N
 ClientSampleId :
 VSTDCCC050EC

Tot Ion	Ion	Ratio	Resp	Lower	Upper
97	100		285274		
83	85.0	70.1	105.1		
85	55.2	45.4	68.0		
99	62.2	49.8	74.8		

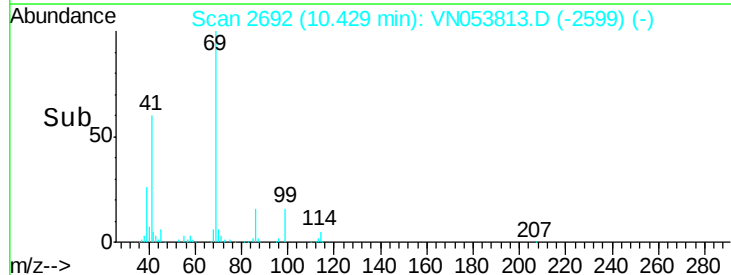
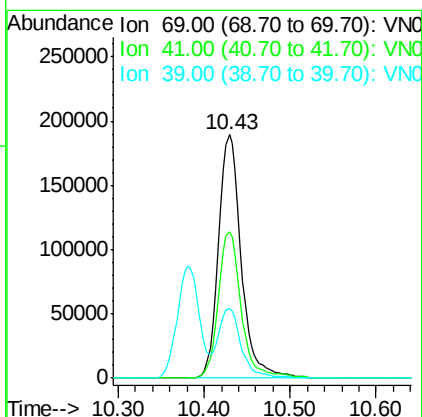
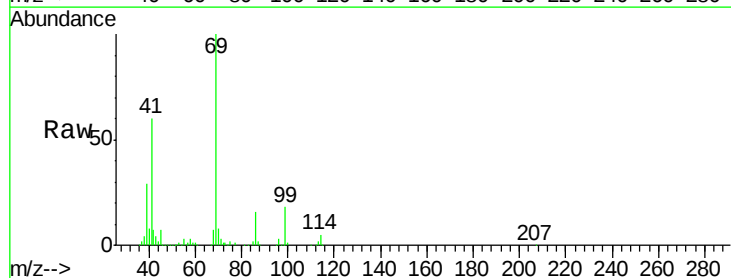
Manual Integrations
 APPROVED

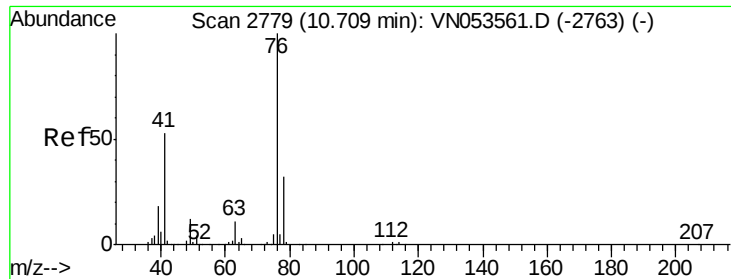
MMDadoda
 2/18/2019 9:48:52 AM



#56
 Ethyl methacrylate
 Concen: 51.588 ug/l
 RT: 10.43 min Scan# 2692
 Delta R.T. 0.00 min
 Lab File: VN053813.D
 Acq: 15 Feb 2019 21:06

Tgt Ion	Ion	Ratio	Resp	Lower	Upper
69	100		349317		
41	59.4	49.4	74.0		
39	28.9	23.3	34.9		





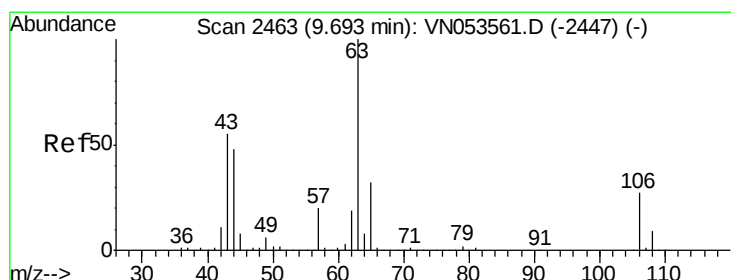
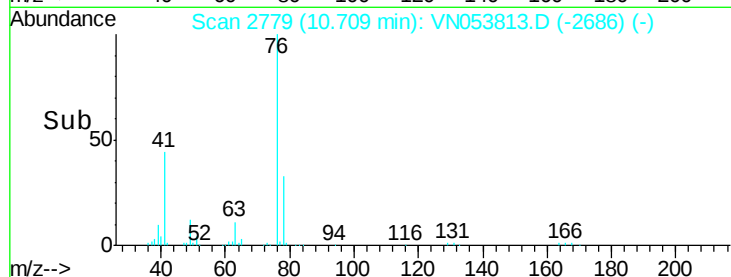
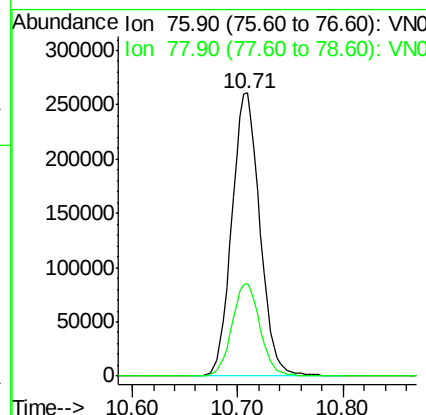
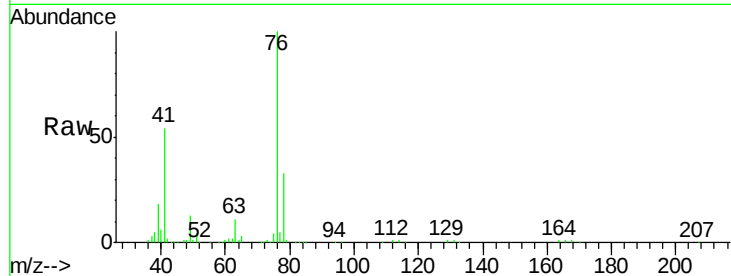
#57
 1,3-Dichloropropane
 Concen: 48.940 ug/l
 RT: 10.71 min Scan# 2779
 Delta R.T. 0.00 min
 Lab File: VN053813.D
 Acq: 15 Feb 2019 21:06

Instrument :
 MSVOA_N
 ClientSampleId :
 VSTDCCC050EC

Tot Ion: 76 Resp: 478747
 Ion Ratio Lower Upper
 76 100
 78 32.7 25.6 38.4

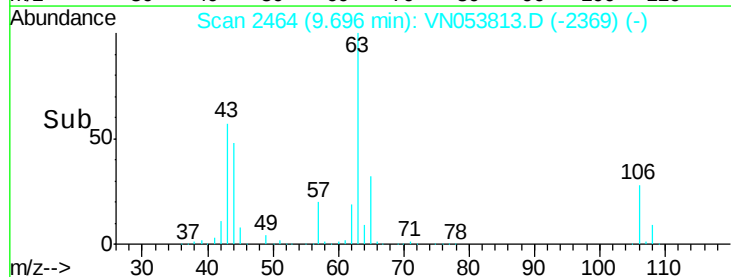
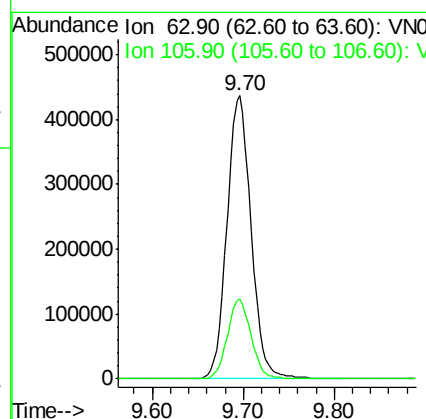
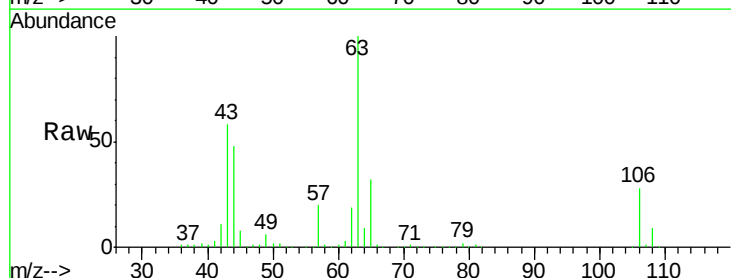
Manual Integrations
 APPROVED

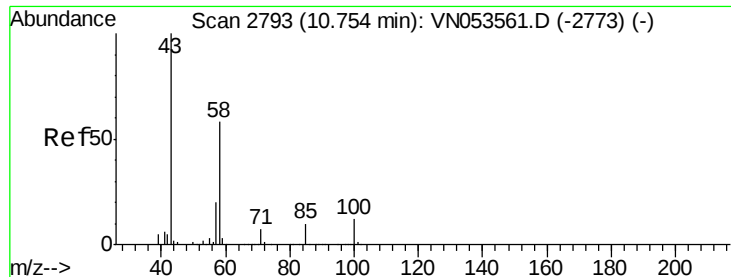
MMDadoda
 2/18/2019 9:48:52 AM



#58
 2-Chloroethyl Vinyl ether
 Concen: 193.689 ug/l
 RT: 9.70 min Scan# 2464
 Delta R.T. 0.00 min
 Lab File: VN053813.D
 Acq: 15 Feb 2019 21:06

Tgt Ion: 63 Resp: 805549
 Ion Ratio Lower Upper
 63 100
 106 27.8 21.5 32.3





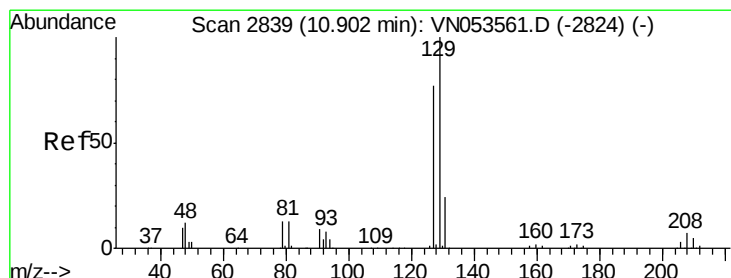
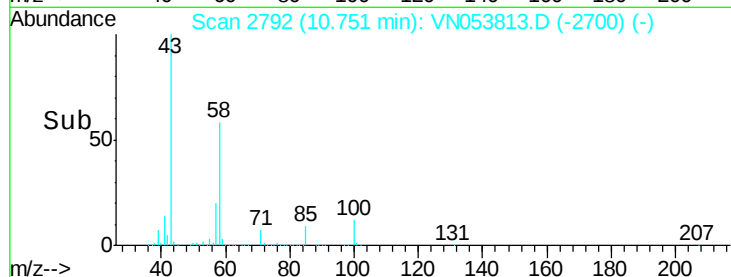
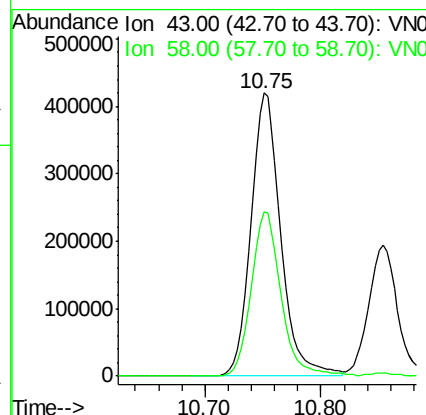
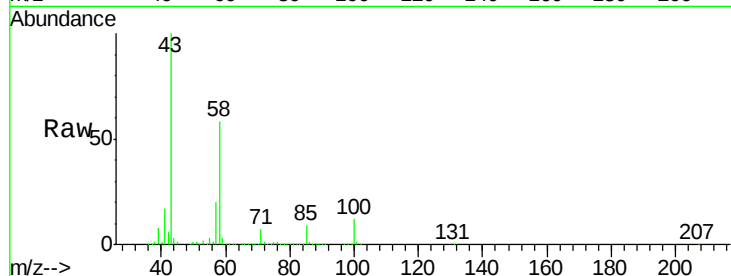
#59
2-Hexanone
Concen: 239.686 ug/l
RT: 10.75 min Scan# 2792
Delta R.T. -0.00 min
Lab File: VN053813.D
Acq: 15 Feb 2019 21:06

Instrument :
MSVOA_N
ClientSampleId :
VSTDCCC050EC

Tot Ion	43	Resp	748517
Ion	Ratio	Lower	Upper
43	100		
58	58.3	28.6	85.8

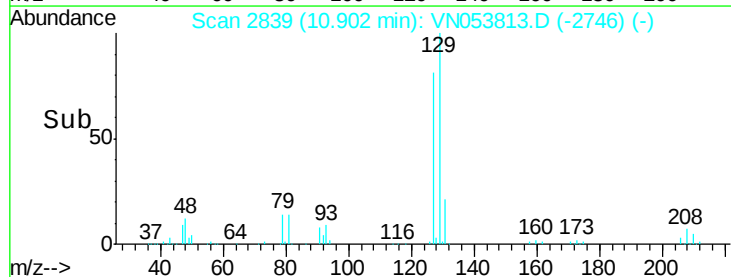
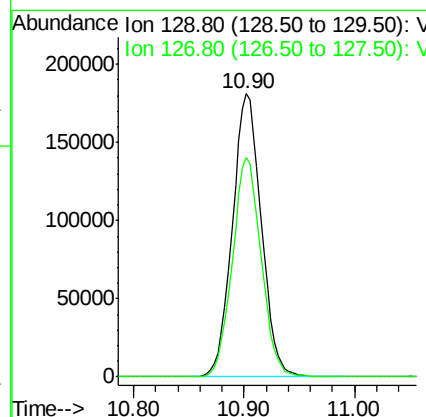
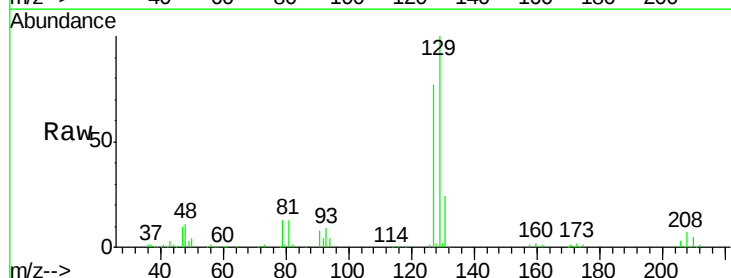
Manual Integrations
APPROVED

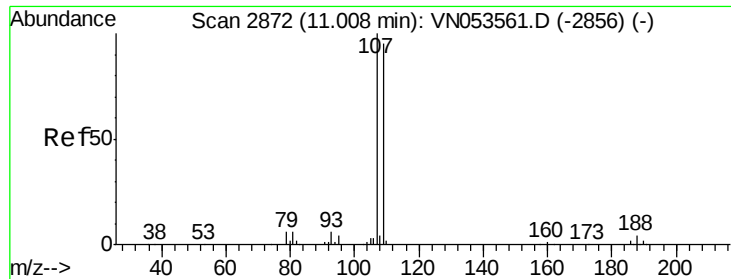
MMDadoda
2/18/2019 9:48:52 AM



#60
Dibromochloromethane
Concen: 50.909 ug/l
RT: 10.90 min Scan# 2839
Delta R.T. 0.00 min
Lab File: VN053813.D
Acq: 15 Feb 2019 21:06

Tgt Ion	129	Resp	328600
Ion	Ratio	Lower	Upper
129	100		
127	77.1	38.6	115.8





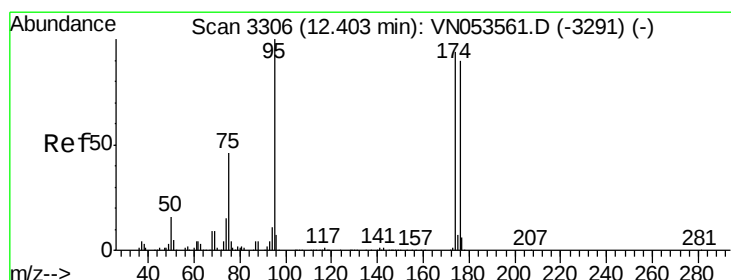
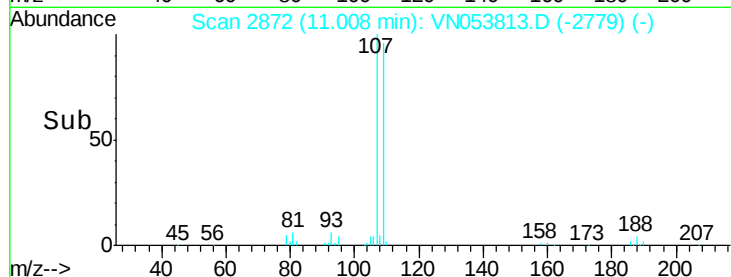
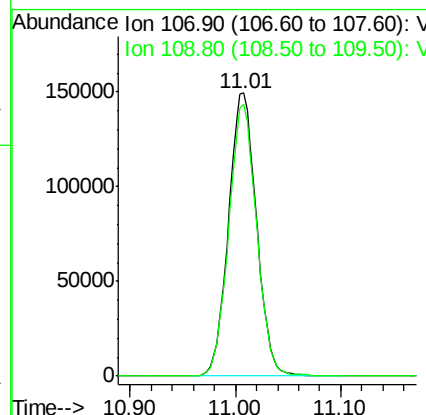
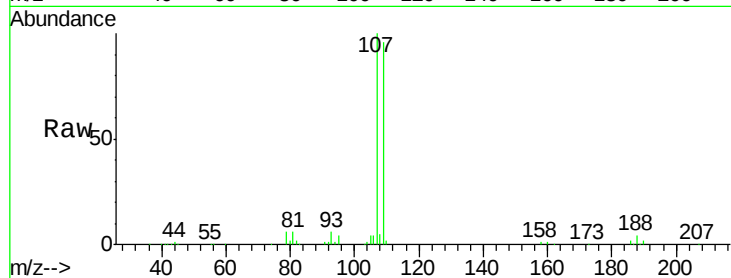
#61
 1,2-Dibromoethane
 Concen: 48.378 ug/l
 RT: 11.01 min Scan# 2872
 Delta R.T. 0.00 min
 Lab File: VN053813.D
 Acq: 15 Feb 2019 21:06

Instrument :
 MSVOA_N
 ClientSampleId :
 VSTDCCC050EC

Tot Ion	Ratio	Lower	Upper
107	100		
109	95.5	75.7	113.5

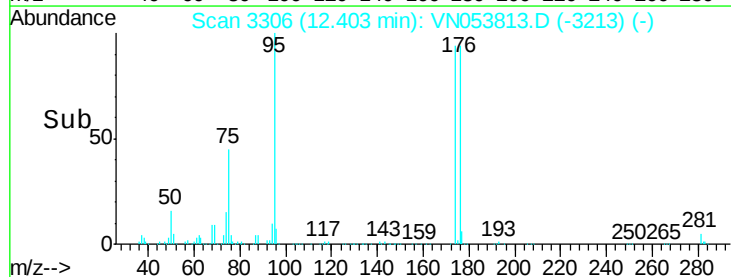
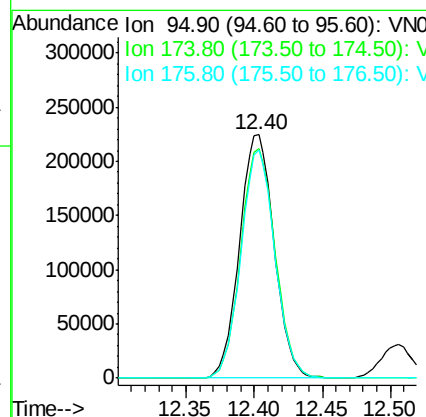
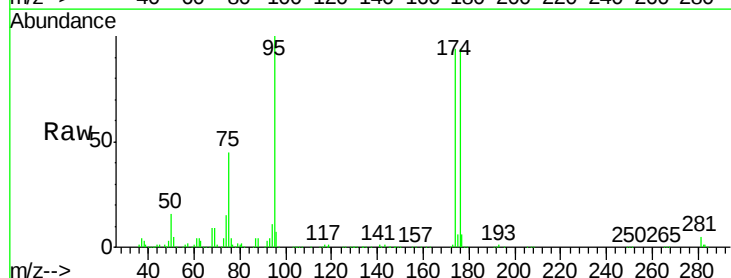
Manual Integrations
 APPROVED

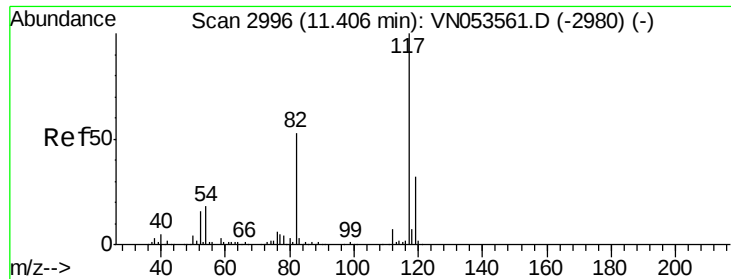
MMDadoda
 2/18/2019 9:48:52 AM



#62
 4-Bromofluorobenzene
 Concen: 51.878 ug/l
 RT: 12.40 min Scan# 3306
 Delta R.T. 0.00 min
 Lab File: VN053813.D
 Acq: 15 Feb 2019 21:06

Tgt Ion	Ratio	Lower	Upper
95	100		
174	93.9	0.0	183.2
176	91.7	0.0	177.4





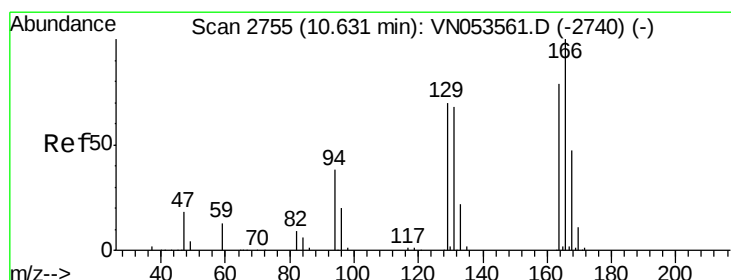
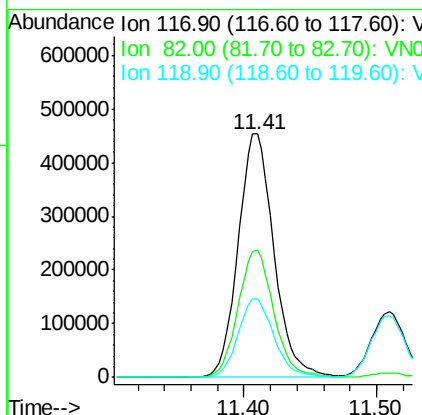
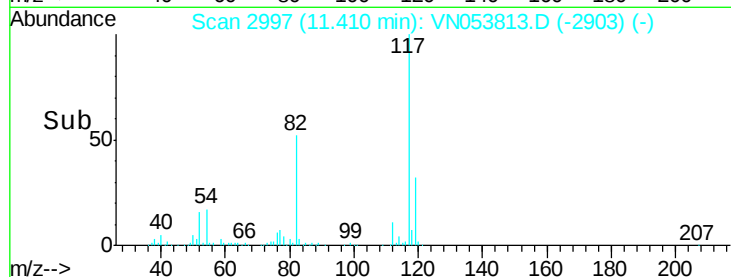
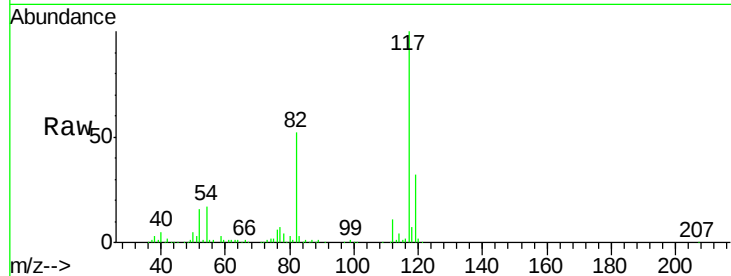
#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.41 min Scan# 2997
Delta R.T. 0.00 min
Lab File: VN053813.D
Acq: 15 Feb 2019 21:06

Instrument :
MSVOA_N
ClientSampleId :
VSTDCCC050EC

Tot Ion	Ratio	Lower	Upper
117	100		
82	52.3	42.9	64.3
119	32.1	26.0	39.0

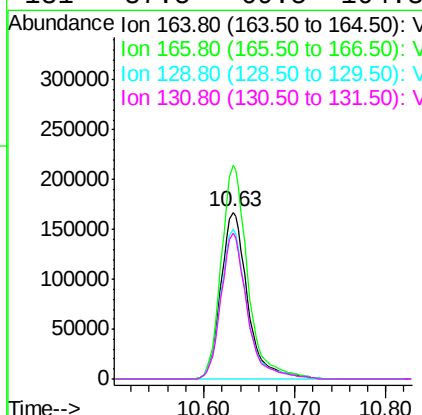
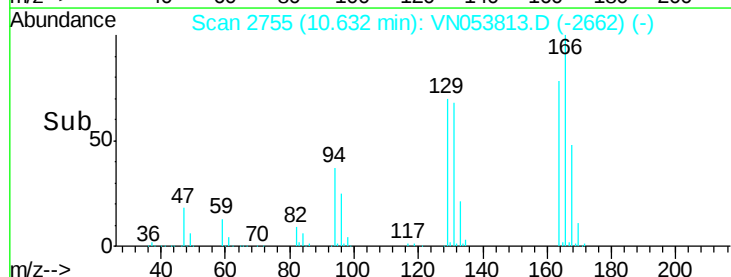
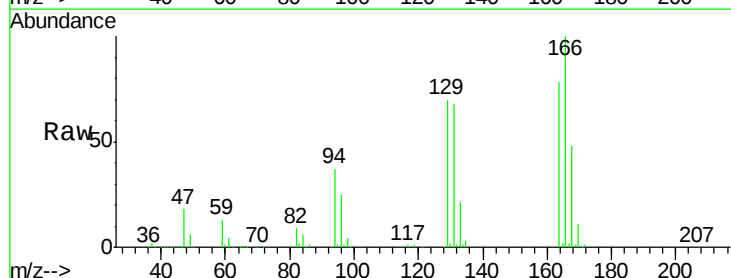
Manual Integrations
APPROVED

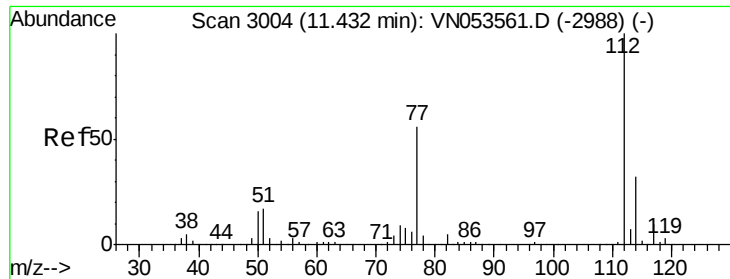
MMDadoda
2/18/2019 9:48:52 AM



#64
Tetrachloroethene
Concen: 46.796 ug/l
RT: 10.63 min Scan# 2755
Delta R.T. 0.00 min
Lab File: VN053813.D
Acq: 15 Feb 2019 21:06

Tgt Ion	Ratio	Lower	Upper
164	100		
166	128.0	102.2	153.4
129	89.7	72.6	109.0
131	87.5	69.5	104.3





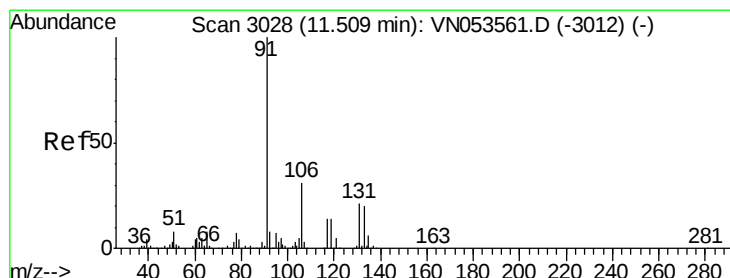
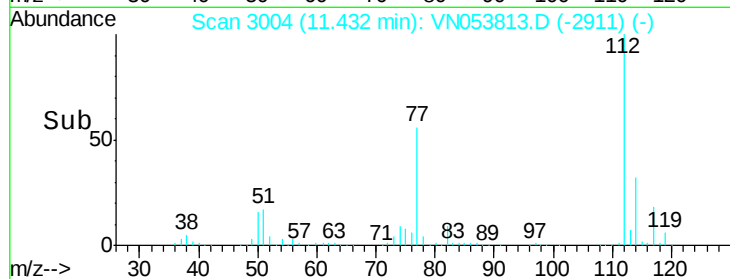
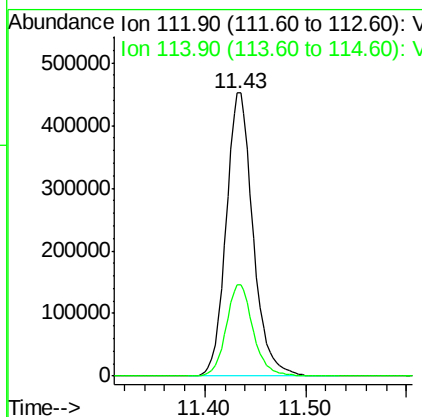
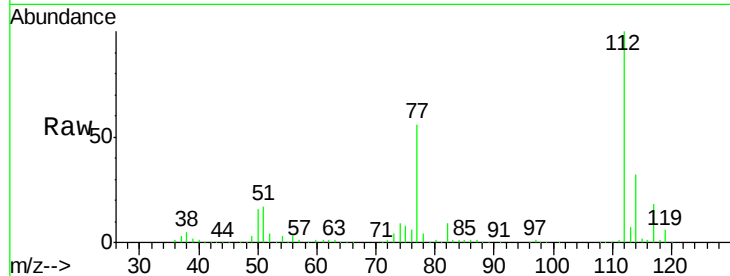
#65
Chlorobenzene
Concen: 46.593 ug/l
RT: 11.43 min Scan# 3004
Delta R.T. 0.00 min
Lab File: VN053813.D
Acq: 15 Feb 2019 21:06

Instrument :
MSVOA_N
ClientSampled :
VSTDCCC050EC

Tot Ion	Ratio	Lower	Upper
112	100		
114	32.1	25.3	37.9

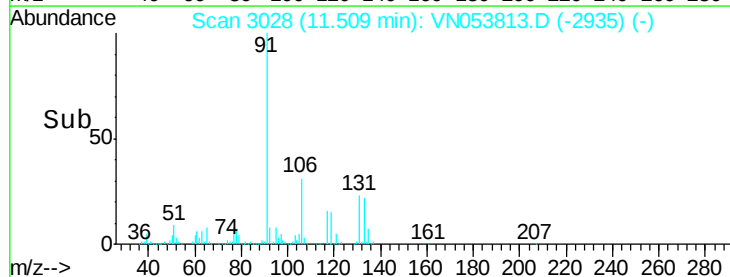
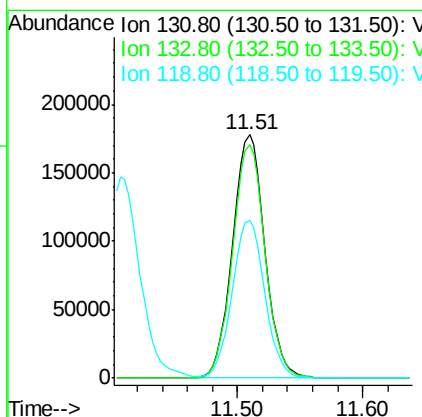
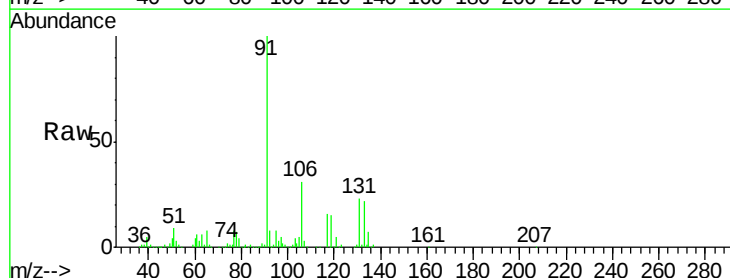
Manual Integrations
APPROVED

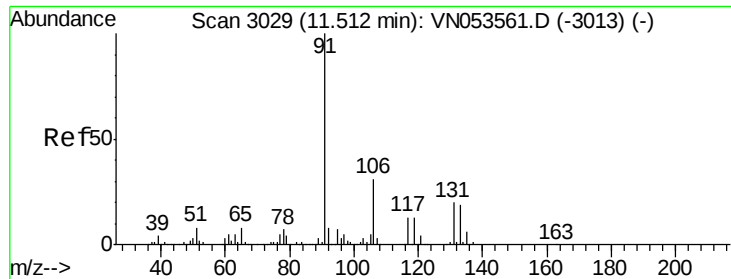
MMDadoda
2/18/2019 9:48:52 AM



#66
1,1,1,2-Tetrachloroethane
Concen: 50.427 ug/l
RT: 11.51 min Scan# 3028
Delta R.T. 0.00 min
Lab File: VN053813.D
Acq: 15 Feb 2019 21:06

Tgt Ion	Ratio	Lower	Upper
131	100		
133	96.4	48.0	144.0
119	65.7	33.5	100.5





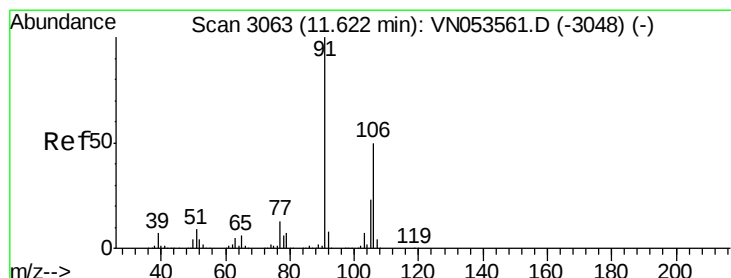
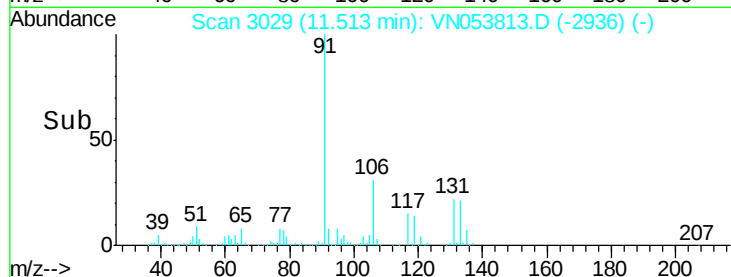
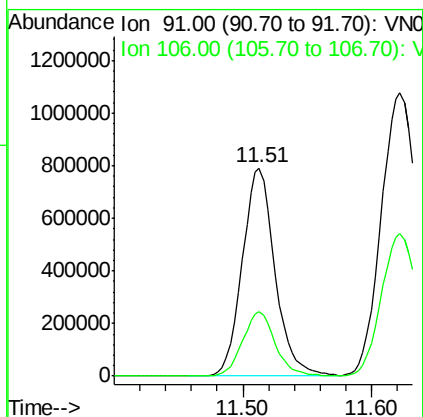
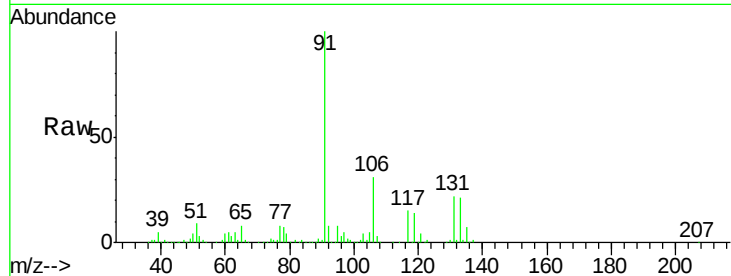
#67
Ethyl Benzene
Concen: 47.030 ug/l
RT: 11.51 min Scan# 3029
Delta R.T. 0.00 min
Lab File: VN053813.D
Acq: 15 Feb 2019 21:06

Instrument :
MSVOA_N
ClientSampleId :
VSTDCCC050EC

Tot Ion: 91 Resp: 1394139
Ion Ratio Lower Upper
91 100
106 31.0 25.0 37.6

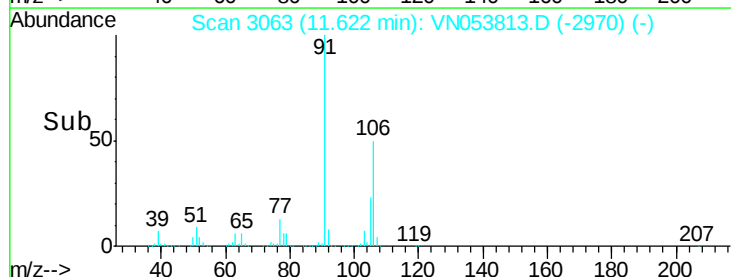
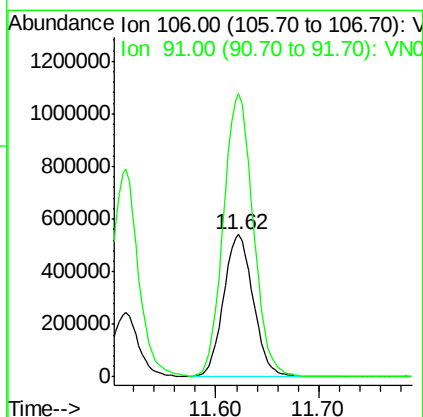
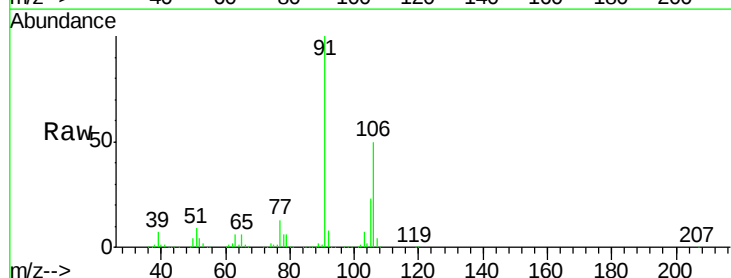
Manual Integrations
APPROVED

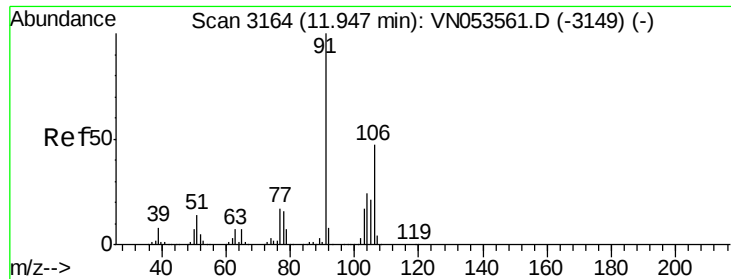
MMDadoda
2/18/2019 9:48:52 AM



#68
m/p-Xylenes
Concen: 96.167 ug/l
RT: 11.62 min Scan# 3063
Delta R.T. 0.00 min
Lab File: VN053813.D
Acq: 15 Feb 2019 21:06

Tgt Ion: 106 Resp: 1088019
Ion Ratio Lower Upper
106 100
91 199.6 161.4 242.2





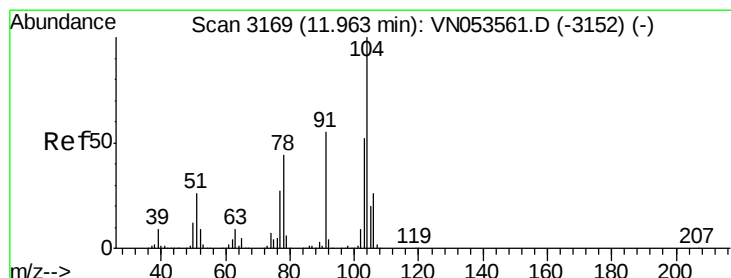
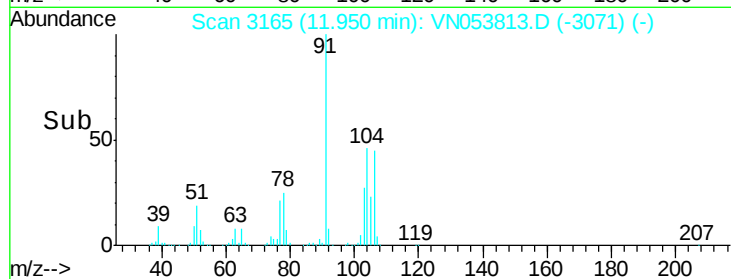
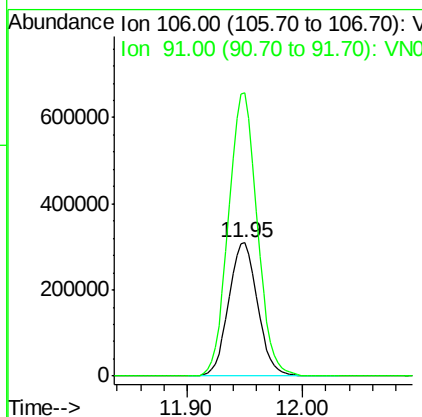
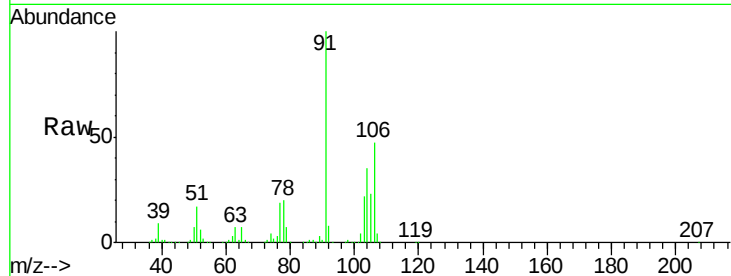
#69
o-Xylene
Concen: 48.620 ug/l
RT: 11.95 min Scan# 3165
Delta R.T. 0.00 min
Lab File: VN053813.D
Acq: 15 Feb 2019 21:06

Instrument :
MSVOA_N
ClientSampleId :
VSTDCCC050EC

Tot Ion	Ion	Ratio	Resp	Lower	Upper
106	100		531431		
91	211.5	106.9	320.8		

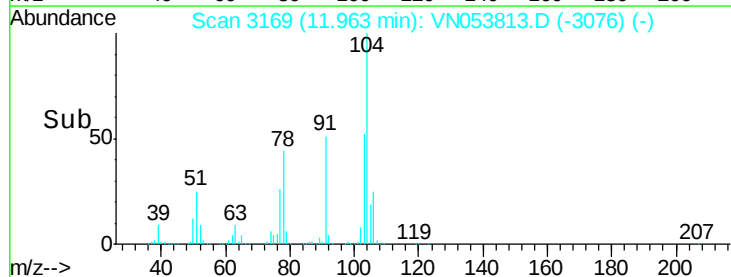
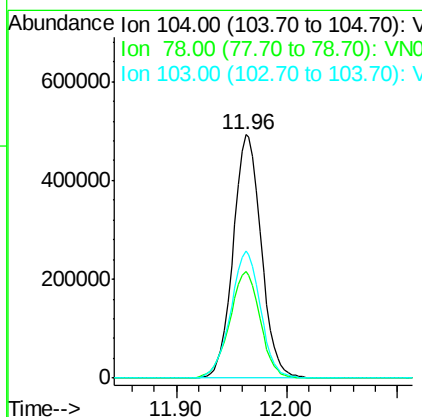
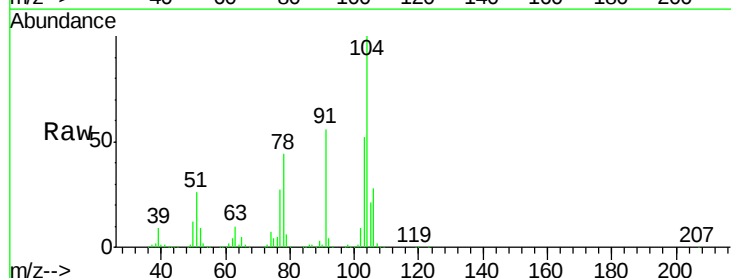
Manual Integrations
APPROVED

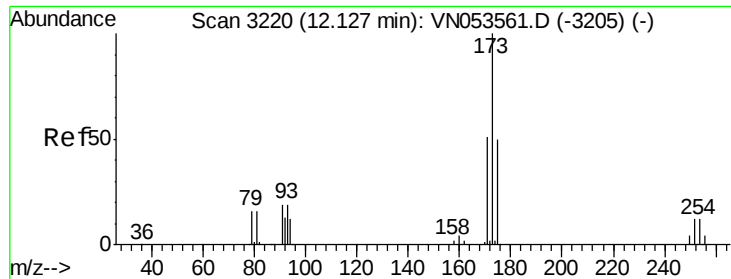
MMDadoda
2/18/2019 9:48:52 AM



#70
Styrene
Concen: 49.073 ug/l
RT: 11.96 min Scan# 3169
Delta R.T. 0.00 min
Lab File: VN053813.D
Acq: 15 Feb 2019 21:06

Tgt Ion	Ion	Ratio	Resp	Lower	Upper
104	100		869373		
78	47.7	38.2	57.2		
103	55.5	44.4	66.6		





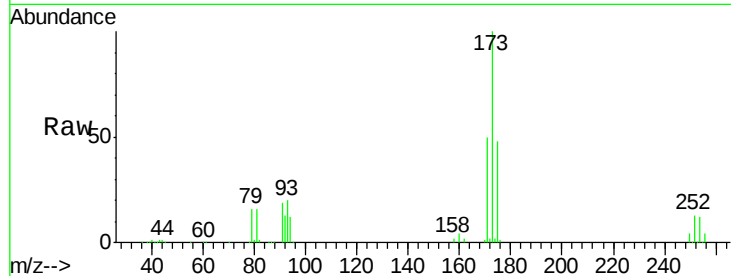
#71
Bromoform
Concen: 52.594 ug/l
RT: 12.13 min Scan# 3220
Delta R.T. 0.00 min
Lab File: VN053813.D
Acq: 15 Feb 2019 21:06

Instrument :
MSVOA_N
ClientSampleId :
VSTDCCC050EC

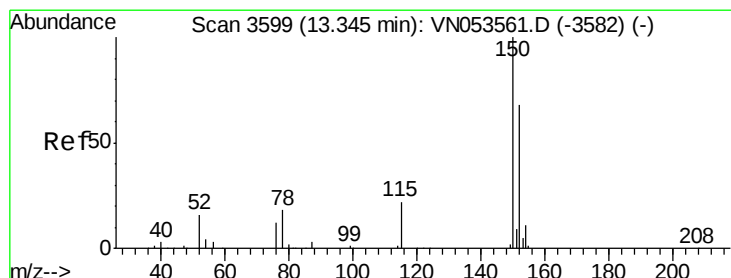
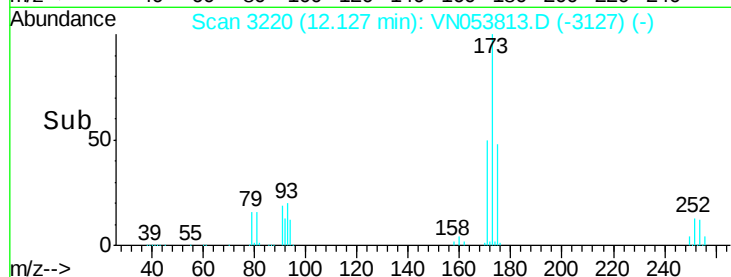
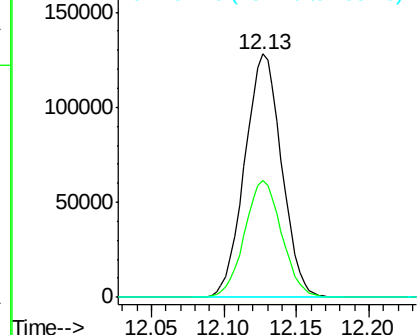
Tot Ion	Ratio	Lower	Upper
173	100		
175	48.2	24.6	74.0
254	0.1	0.2	0.2

Manual Integrations
APPROVED

MMDadoda
2/18/2019 9:48:52 AM

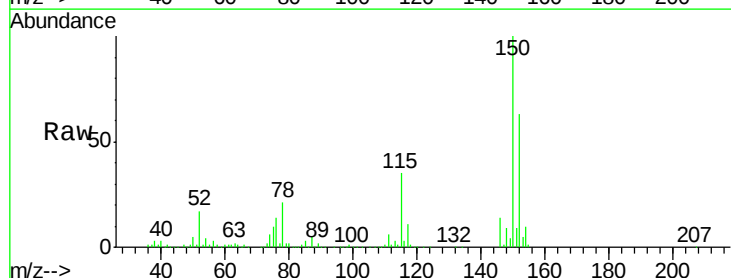


Abundance Ion 172.70 (172.40 to 173.40): V
Ion 174.70 (174.40 to 175.40): V
Ion 254.40 (254.10 to 255.10): V

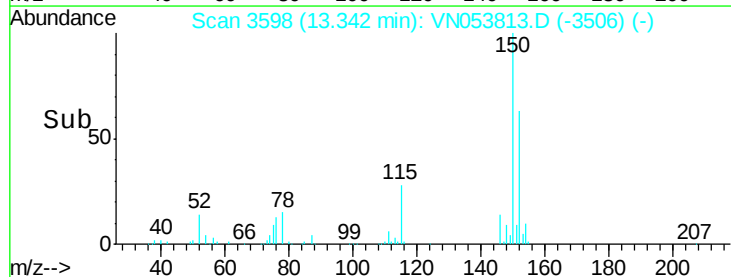
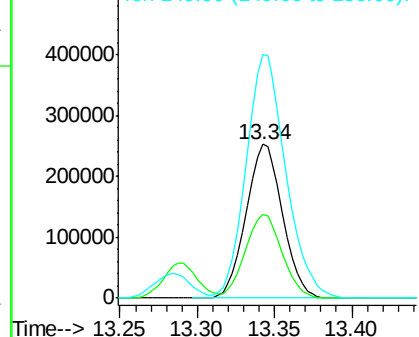


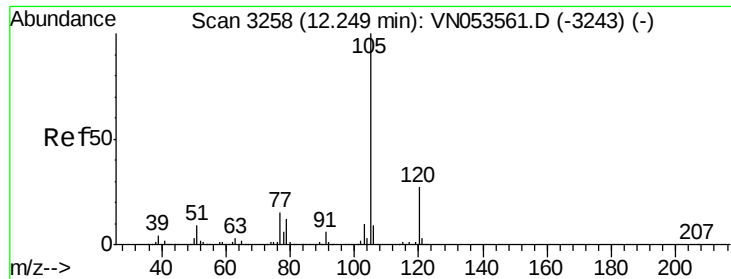
#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 13.34 min Scan# 3598
Delta R.T. -0.00 min
Lab File: VN053813.D
Acq: 15 Feb 2019 21:06

Tgt Ion	Ratio	Lower	Upper
152	100		
115	55.0	27.8	83.4
150	172.3	0.0	349.0



Abundance Ion 151.90 (151.60 to 152.60): V
Ion 114.90 (114.60 to 115.60): V
Ion 149.90 (149.60 to 150.60): V





#73

Isopropylbenzene

Concen: 47.640 ug/l

RT: 12.25 min Scan# 3258

Delta R.T. 0.00 min

Lab File: VN053813.D

Acq: 15 Feb 2019 21:06

Instrument :

MSVOA_N

ClientSampleId :

VSTDCCC050EC

Tot Ion: 105 Resp: 1385591

Ion Ratio Lower Upper

105 100

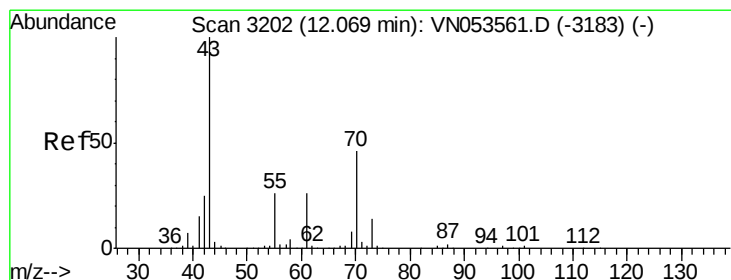
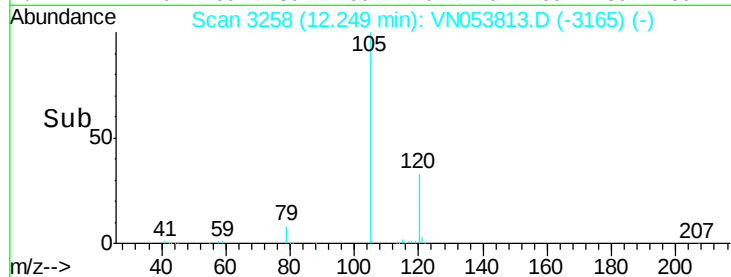
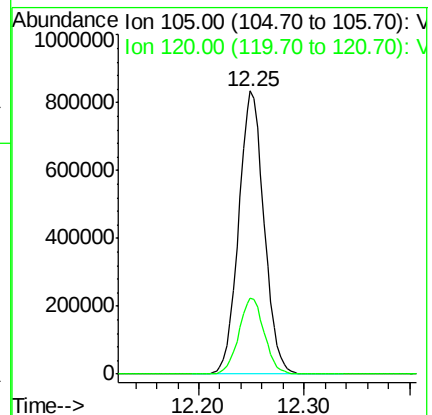
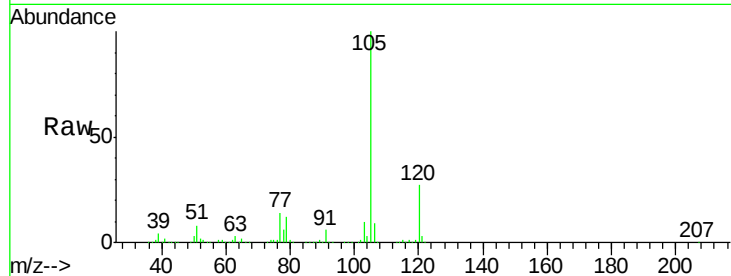
120 27.0 13.6 40.7

Manual Integrations

APPROVED

MMDadoda

2/18/2019 9:48:52 AM



#74

N-ethyl acetate

Concen: 48.962 ug/l

RT: 12.07 min Scan# 3202

Delta R.T. 0.00 min

Lab File: VN053813.D

Acq: 15 Feb 2019 21:06

Tgt Ion: 43 Resp: 342436

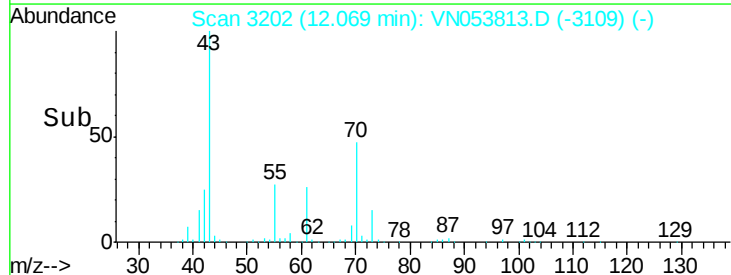
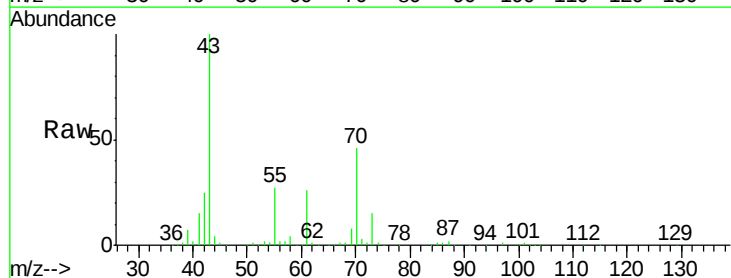
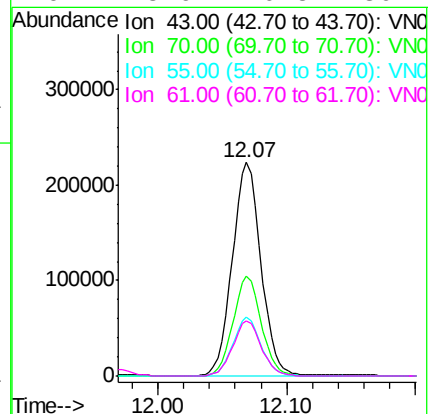
Ion Ratio Lower Upper

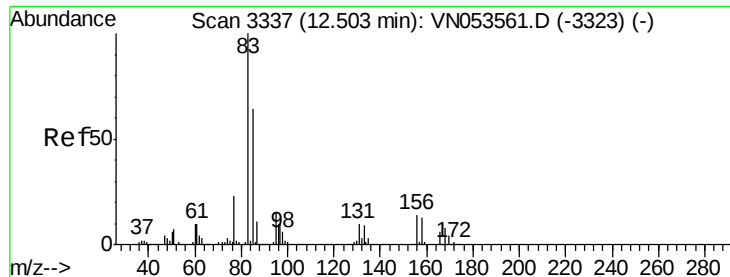
43 100

70 46.5 35.4 53.2

55 27.1 20.9 31.3

61 25.9 20.5 30.7





#75

1,1,2,2-Tetrachloroethane

Concen: 49.076 ug/l

RT: 12.50 min Scan# 3337

Delta R.T. 0.00 min

Lab File: VN053813.D

Acq: 15 Feb 2019 21:06

Instrument :

MSVOA_N

ClientSampleId :

VSTDCCC050EC

Tot Ion: 83 Resp: 341600
Ion Ratio Lower Upper

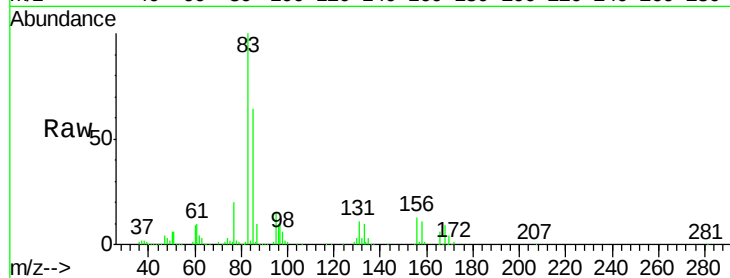
83 100

131 10.7 5.3 15.8

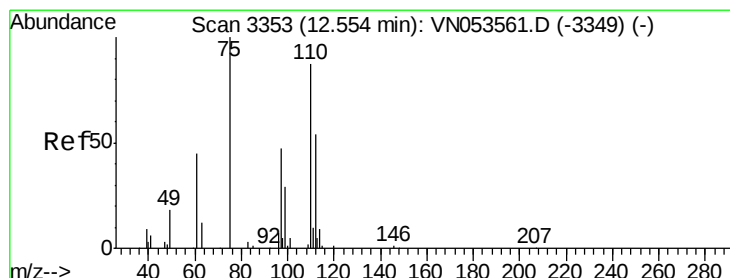
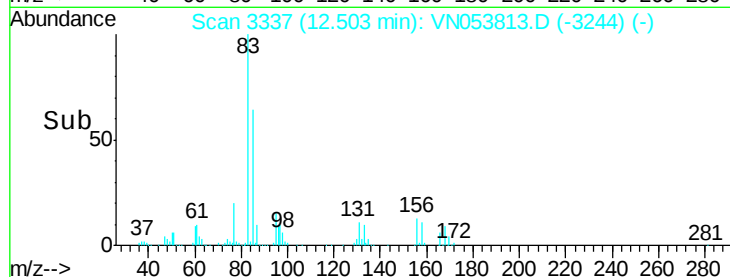
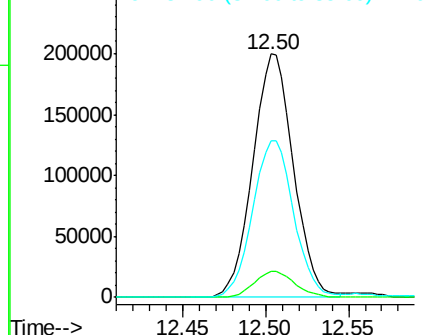
85 64.8 32.1 96.3

Manual Integrations
APPROVED

MMDadoda
2/18/2019 9:48:52 AM



Abundance Ion 82.90 (82.60 to 83.60): VN053813.D (-3244) (-)
Ion 130.80 (130.50 to 131.50): VN053813.D (-3244) (-)
Ion 84.90 (84.60 to 85.60): VN053813.D (-3244) (-)



#76

1,2,3-Trichloropropane

Concen: 53.090 ug/l m

RT: 12.55 min Scan# 3353

Delta R.T. 0.00 min

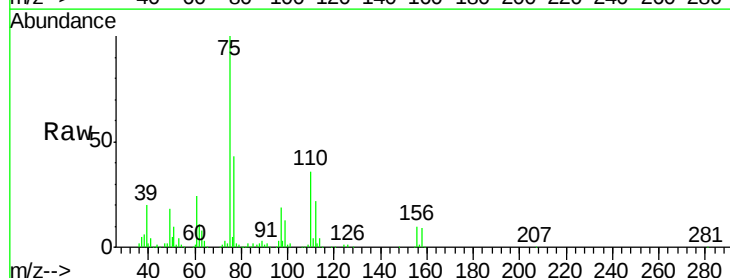
Lab File: VN053813.D

Acq: 15 Feb 2019 21:06

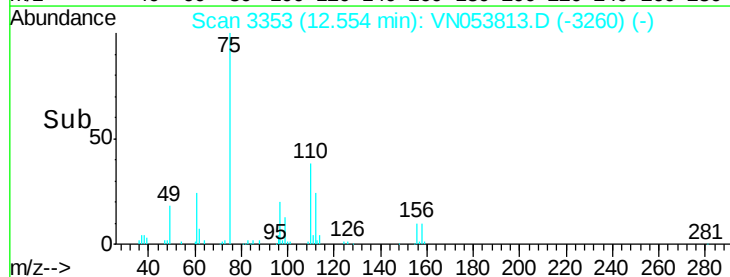
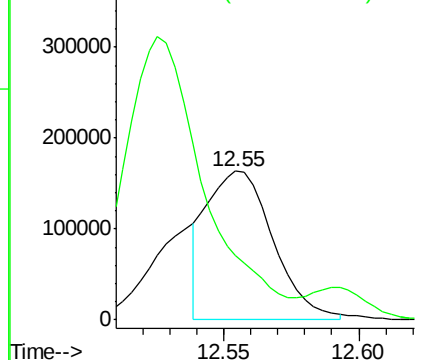
Tgt Ion: 75 Resp: 282126
Ion Ratio Lower Upper

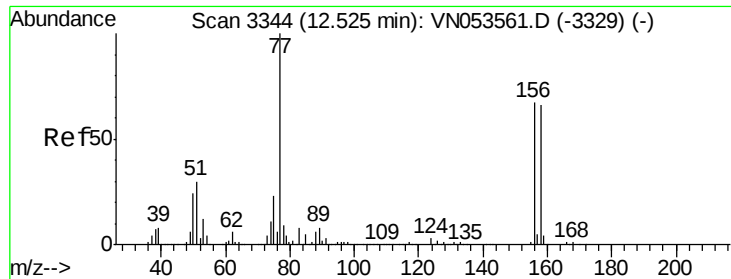
75 100

77 0.0 0.0 0.0



Abundance Ion 74.90 (74.60 to 75.60): VN053813.D (-3260) (-)
Ion 77.00 (76.70 to 77.70): VN053813.D (-3260) (-)





#77

Bromobenzene

Concen: 48.324 ug/l

RT: 12.53 min Scan# 3344

Delta R.T. 0.00 min

Lab File: VN053813.D

Acq: 15 Feb 2019 21:06

Instrument :

MSVOA_N

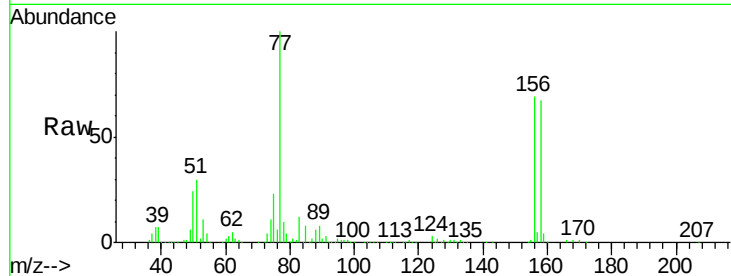
ClientSampleId :

VSTDCCC050EC

Tot Ion	Ratio	Lower	Upper
156	100		
77	170.0	87.9	263.8
158	96.1	48.8	146.4

Manual Integrations
APPROVED

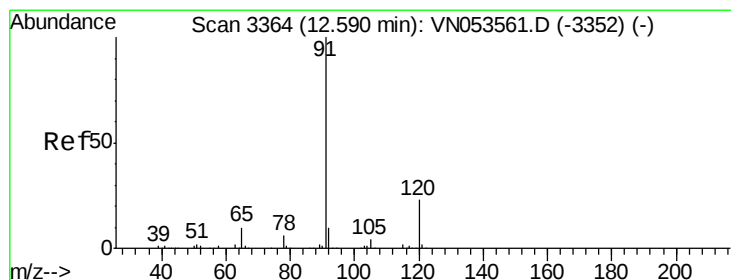
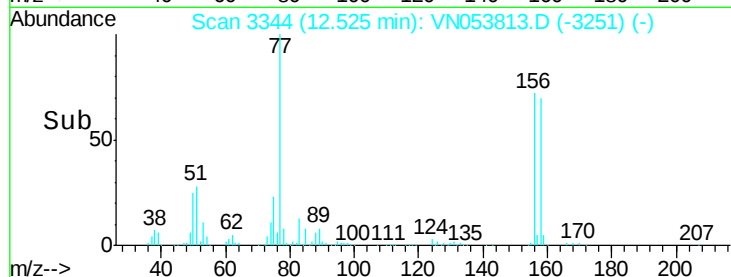
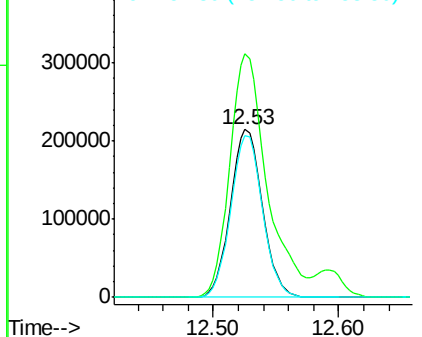
MMDadoda
2/18/2019 9:48:52 AM



Abundance Ion 155.80 (155.50 to 156.50): V

Ion 77.00 (76.70 to 77.70): VN

Ion 157.80 (157.50 to 158.50): V



#78

n-propylbenzene

Concen: 47.288 ug/l

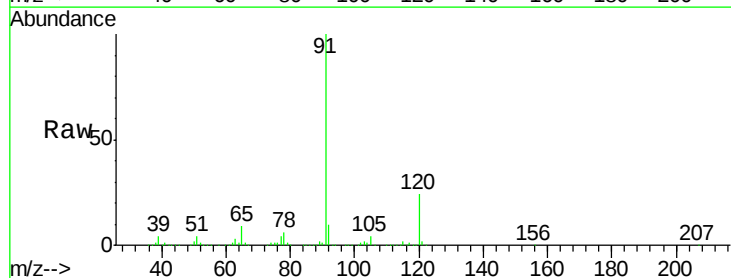
RT: 12.59 min Scan# 3365

Delta R.T. 0.00 min

Lab File: VN053813.D

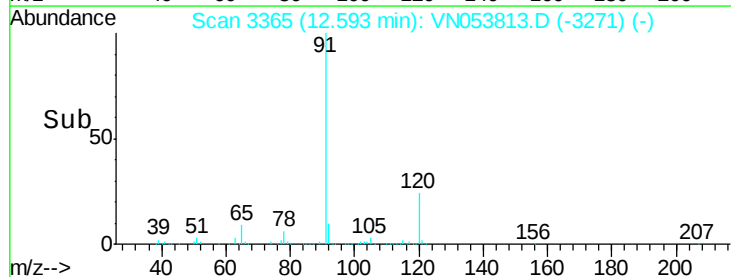
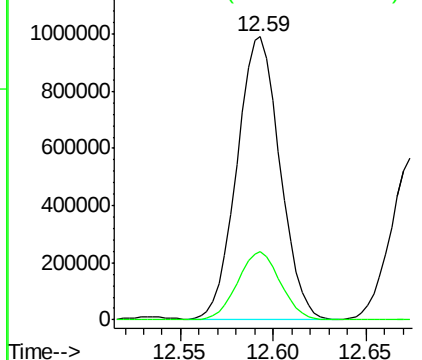
Acq: 15 Feb 2019 21:06

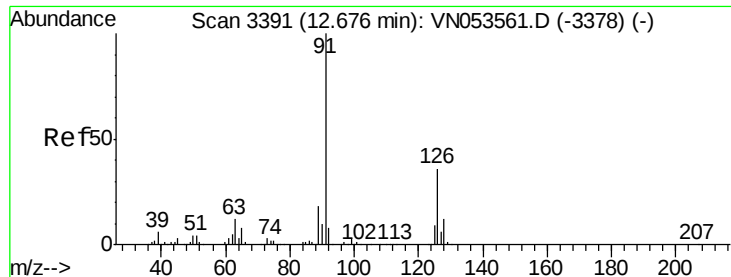
Tgt Ion	Ratio	Lower	Upper
91	100		
120	24.0	11.9	35.5



Abundance Ion 91.00 (90.70 to 91.70): VN

Ion 120.00 (119.70 to 120.70): V





#79

2-Chlorotoluene

Concen: 47.428 ug/l

RT: 12.67 min Scan# 3390

Delta R.T. -0.00 min

Lab File: VN053813.D

Acq: 15 Feb 2019 21:06

Instrument :

MSVOA_N

ClientSampleId :

VSTDCCC050EC

Tot Ion: 91 Resp: 946060

Ion Ratio Lower Upper

91 100

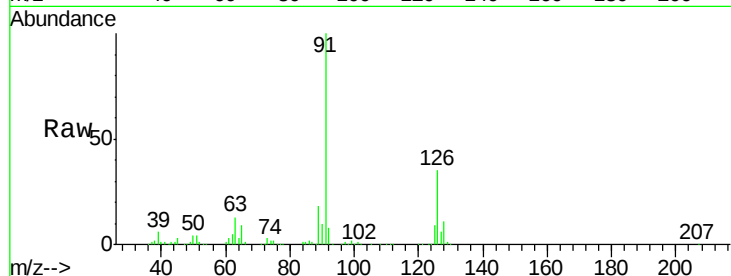
126 36.1 17.9 53.7

Manual Integrations

APPROVED

MMDadoda

2/18/2019 9:48:52 AM



Abundance Ion 91.00 (90.70 to 91.70): VN053813.D (-3391) (-)

Ion 125.90 (125.60 to 126.60): VN053813.D (-3391) (-)

800000

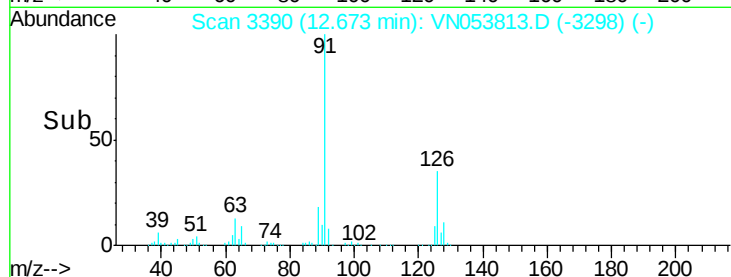
600000

400000

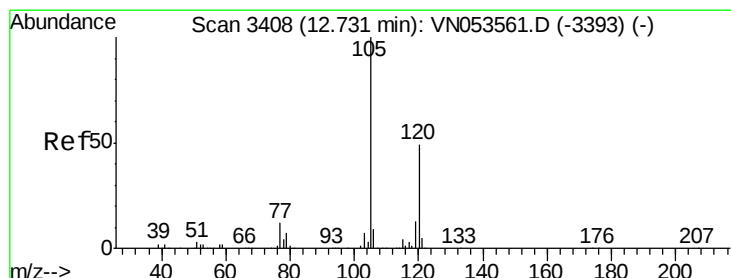
200000

0

12.60 12.65 12.70



Time-->



#80

1,3,5-Trimethylbenzene

Concen: 49.124 ug/l

RT: 12.73 min Scan# 3409

Delta R.T. 0.00 min

Lab File: VN053813.D

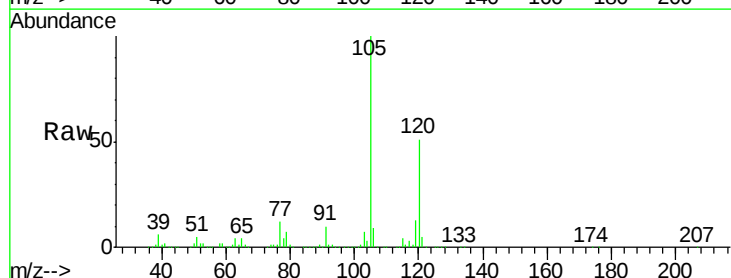
Acq: 15 Feb 2019 21:06

Tgt Ion: 105 Resp: 1184780

Ion Ratio Lower Upper

105 100

120 50.1 24.9 74.6



Abundance Ion 105.00 (104.70 to 105.70): VN053813.D (-3408) (-)

Ion 120.00 (119.70 to 120.70): VN053813.D (-3408) (-)

800000

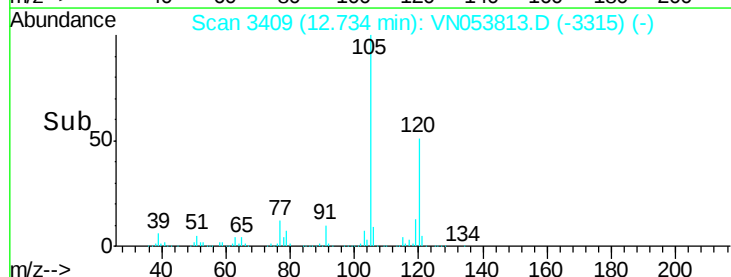
600000

400000

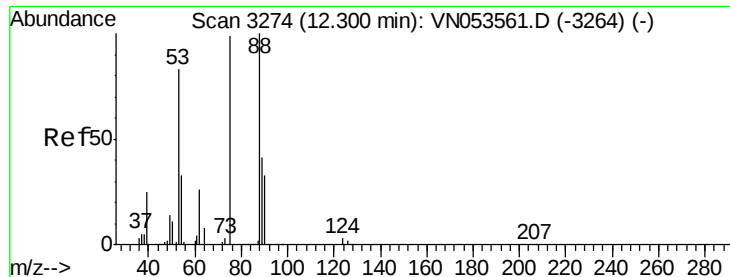
200000

0

12.70 12.80



Time-->



#81

trans-1,4-Dichloro-2-butene

Concen: 47.768 ug/l

RT: 12.30 min Scan# 3274

Delta R.T. 0.00 min

Lab File: VN053813.D

Acq: 15 Feb 2019 21:06

Instrument :

MSVOA_N

ClientSampleId :

VSTDCCC050EC

Tot Ion: 75 Resp: 90275

Ion Ratio Lower Upper

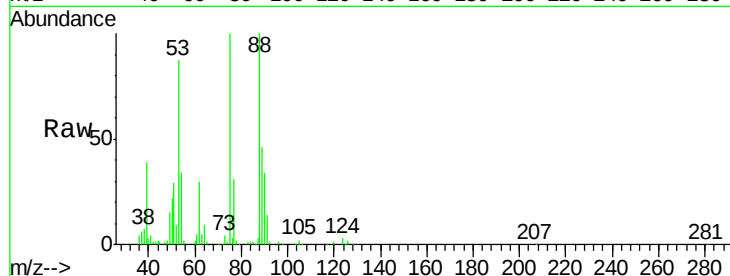
75 100

53 88.7 69.8 104.6

89 45.5 35.6 53.4

Manual Integrations
APPROVED

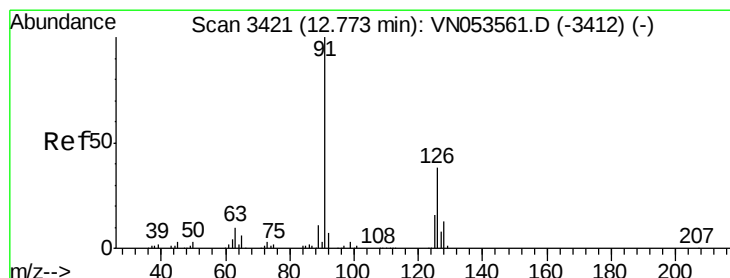
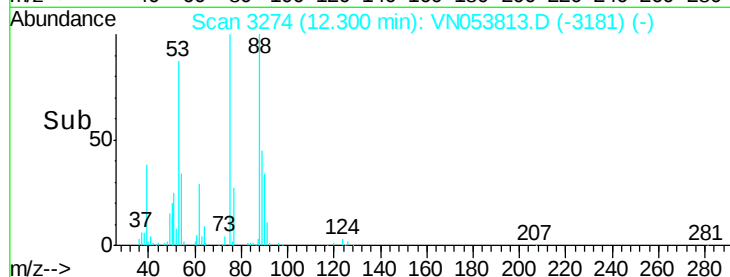
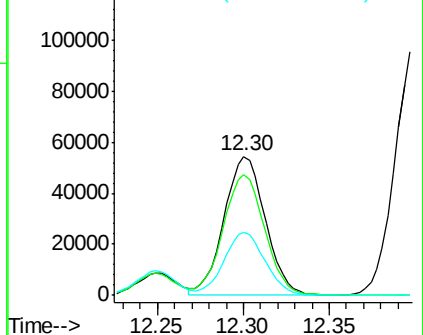
MMDadoda
2/18/2019 9:48:52 AM



Abundance Ion 74.90 (74.60 to 75.60): VN0

Ion 53.00 (52.70 to 53.70): VN0

Ion 88.90 (88.60 to 89.60): VN0



#82

4-Chlorotoluene

Concen: 46.463 ug/l

RT: 12.77 min Scan# 3421

Delta R.T. 0.00 min

Lab File: VN053813.D

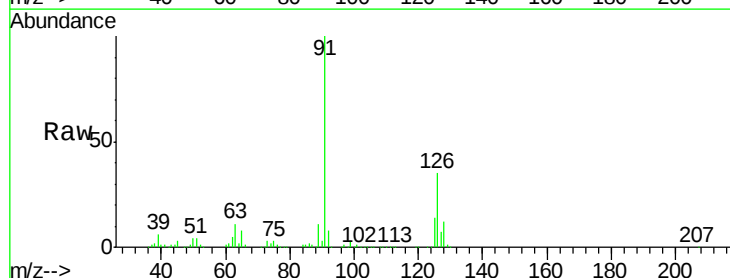
Acq: 15 Feb 2019 21:06

Tgt Ion: 91 Resp: 951041

Ion Ratio Lower Upper

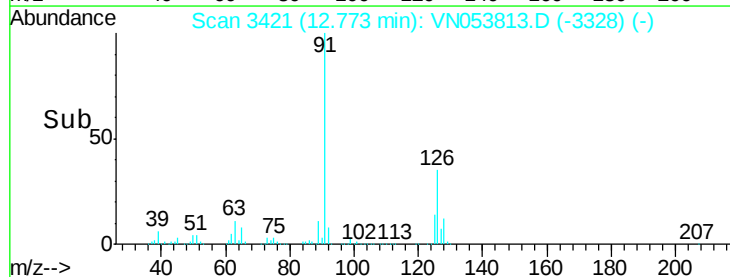
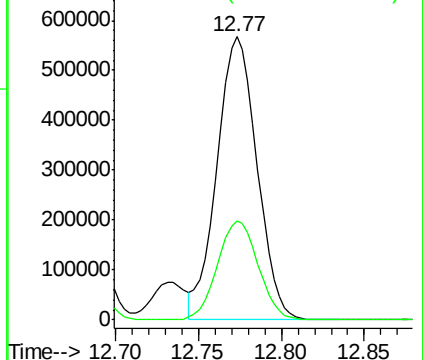
91 100

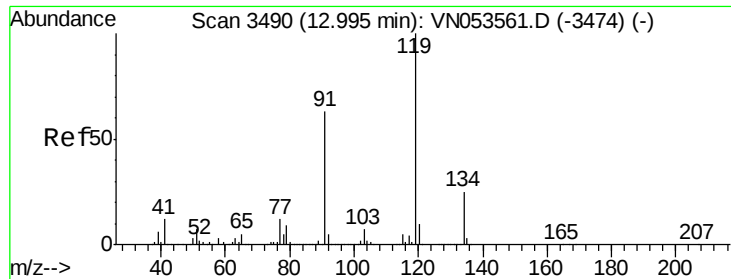
126 35.6 17.6 52.9



Abundance Ion 91.00 (90.70 to 91.70): VN0

Ion 125.90 (125.60 to 126.60): V





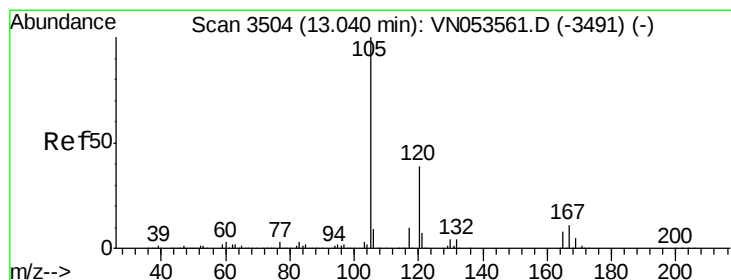
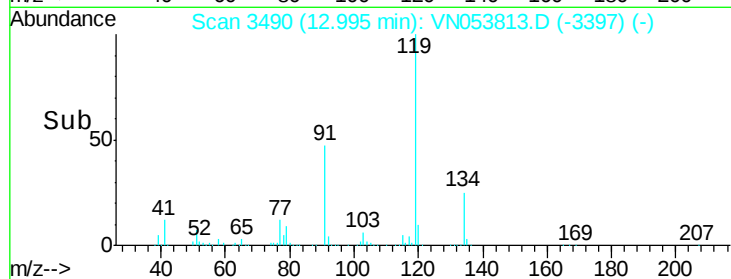
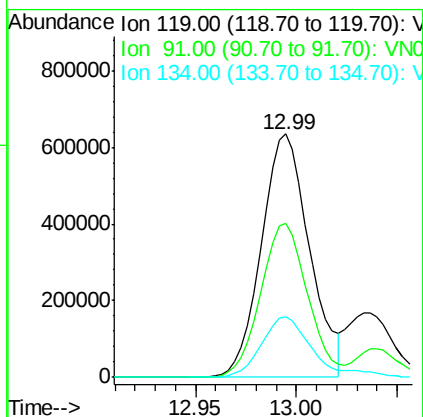
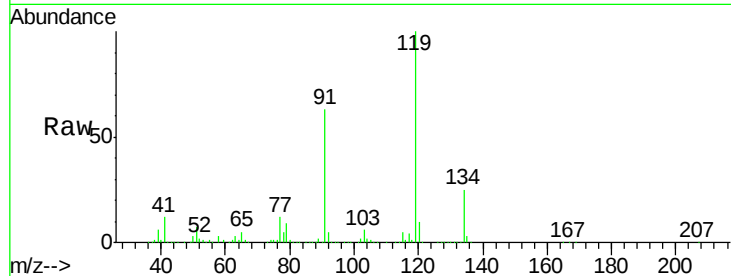
#83
tert-Butylbenzene
Concen: 49.382 ug/l
RT: 12.99 min Scan# 3490
Delta R.T. 0.00 min
Lab File: VN053813.D
Acq: 15 Feb 2019 21:06

Instrument :
MSVOA_N
ClientSampleId :
VSTDCCC050EC

Tot Ion	Ratio	Lower	Upper
119	100		
91	62.0	31.3	93.8
134	26.4	12.9	38.7

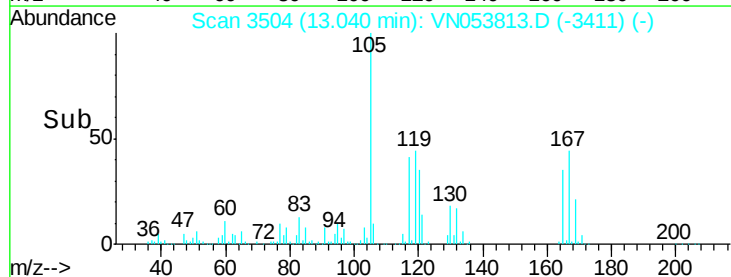
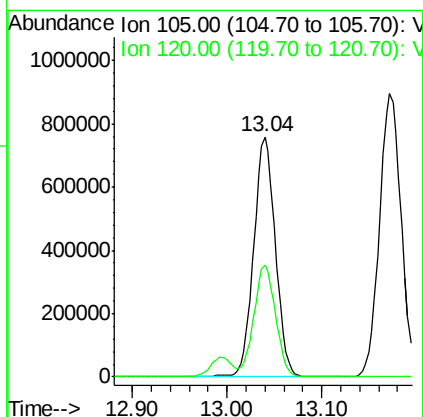
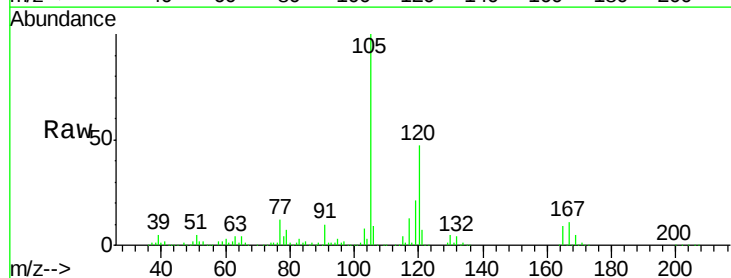
Manual Integrations
APPROVED

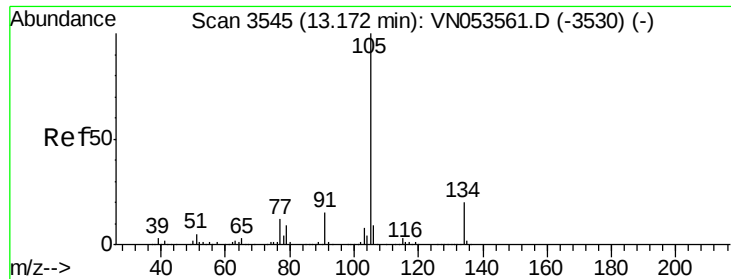
MMDadoda
2/18/2019 9:48:52 AM



#84
1,2,4-Trimethylbenzene
Concen: 49.213 ug/l
RT: 13.04 min Scan# 3504
Delta R.T. 0.00 min
Lab File: VN053813.D
Acq: 15 Feb 2019 21:06

Tgt Ion	Ratio	Lower	Upper
105	100		
120	46.5	23.0	69.0





#85

sec-Butylbenzene

Concen: 48.897 ug/l

RT: 13.17 min Scan# 3545

Delta R.T. 0.00 min

Lab File: VN053813.D

Acq: 15 Feb 2019 21:06

Instrument :

MSVOA_N

ClientSampleId :

VSTDCCC050EC

Tot Ion:105 Resp: 1418364

Ion Ratio Lower Upper

105 100

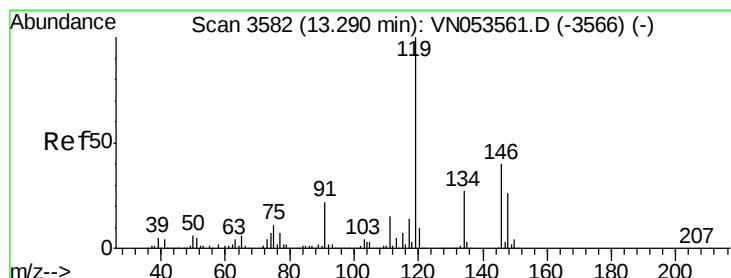
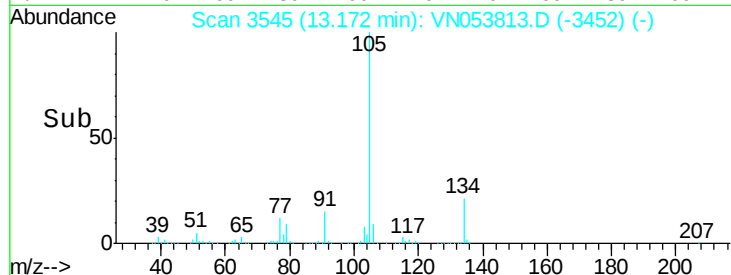
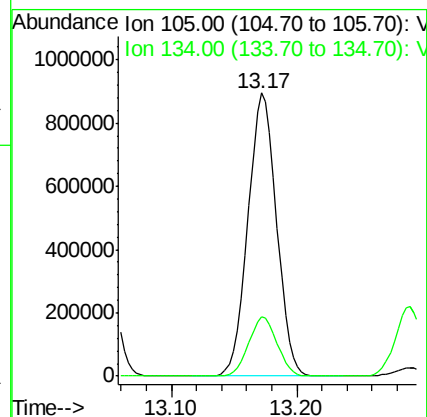
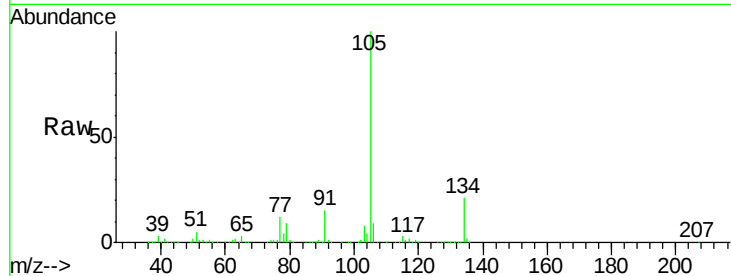
134 20.8 10.2 30.6

Manual Integrations

APPROVED

MMDadoda

2/18/2019 9:48:52 AM



#86

p-Isopropyltoluene

Concen: 48.851 ug/l

RT: 13.29 min Scan# 3582

Delta R.T. 0.00 min

Lab File: VN053813.D

Acq: 15 Feb 2019 21:06

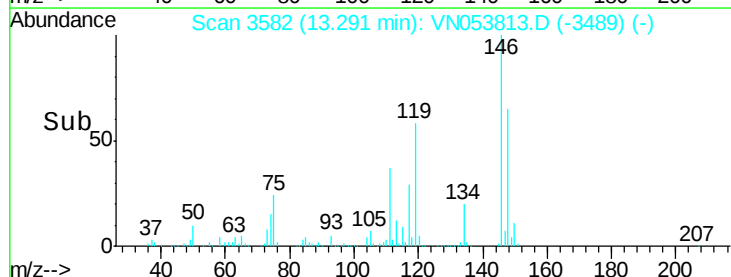
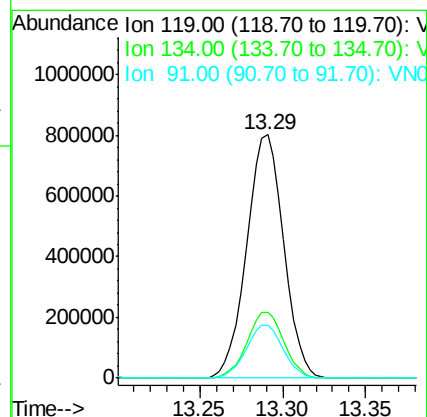
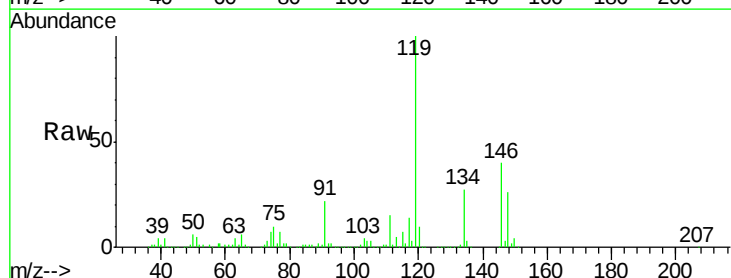
Tgt Ion:119 Resp: 1239313

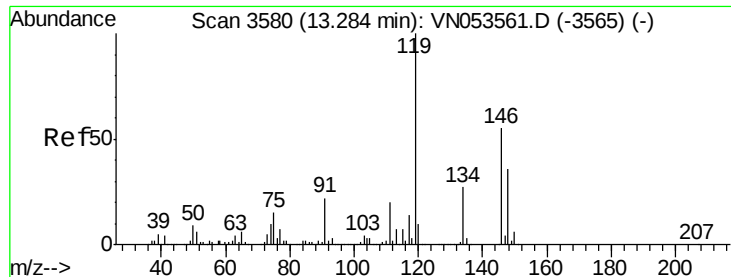
Ion Ratio Lower Upper

119 100

134 27.0 13.5 40.4

91 21.8 11.0 33.0





#87

1,3-Dichlorobenzene

Concen: 46.487 ug/l

RT: 13.28 min Scan# 3580

Delta R.T. 0.00 min

Lab File: VN053813.D

Acq: 15 Feb 2019 21:06

Instrument :

MSVOA_N

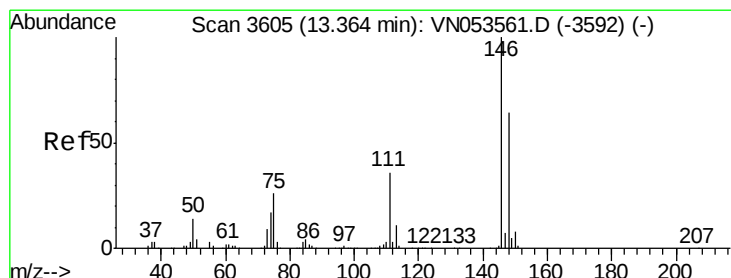
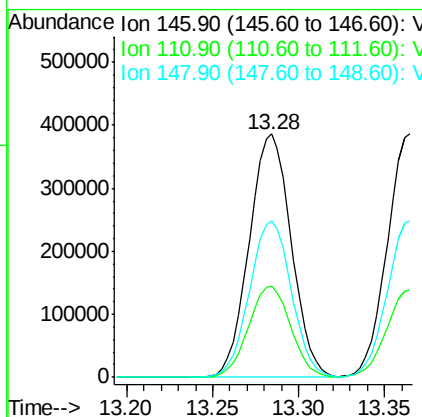
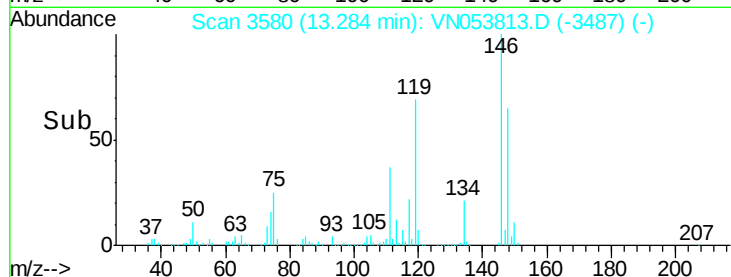
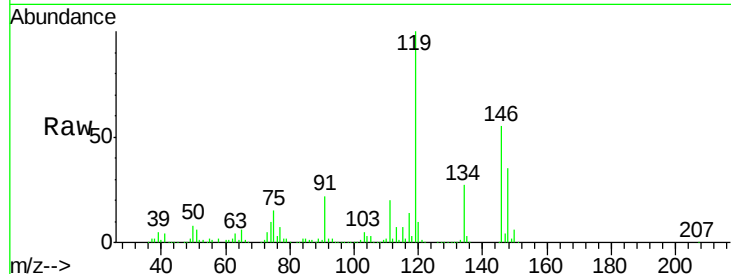
ClientSampleId :

VSTDCCC050EC

Tot Ion:	146	Resp:	655050
Ion Ratio	Lower	Upper	
146	100		
111	37.3	18.8	56.3
148	63.9	32.0	96.2

Manual Integrations
APPROVED

MMDadoda
2/18/2019 9:48:52 AM



#88

1,4-Dichlorobenzene

Concen: 46.247 ug/l

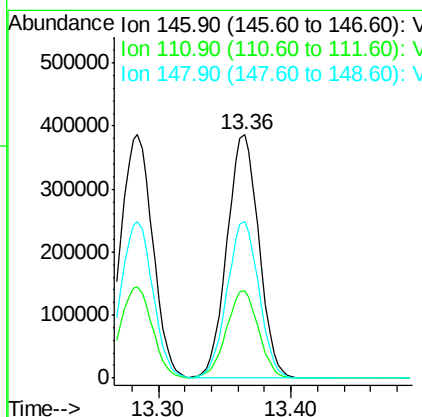
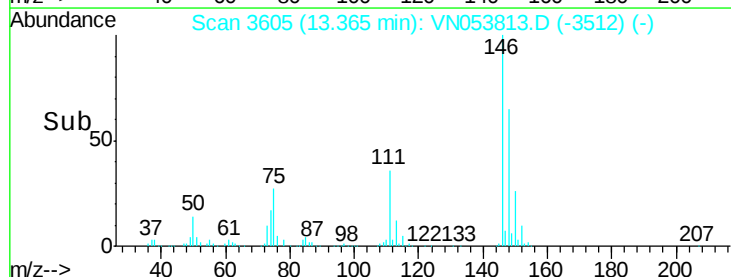
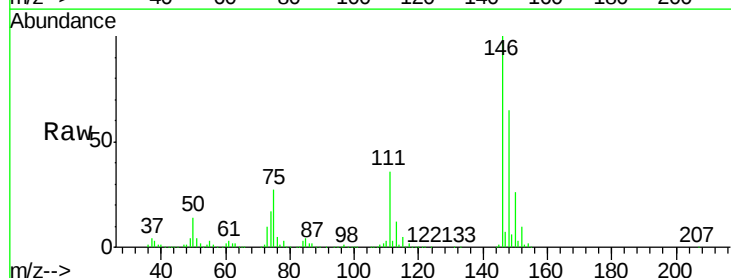
RT: 13.36 min Scan# 3605

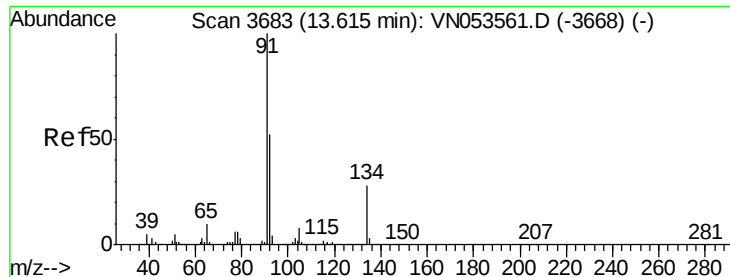
Delta R.T. 0.00 min

Lab File: VN053813.D

Acq: 15 Feb 2019 21:06

Tgt Ion:	146	Resp:	644617
Ion Ratio	Lower	Upper	
146	100		
111	36.2	18.6	55.8
148	64.4	32.4	97.0





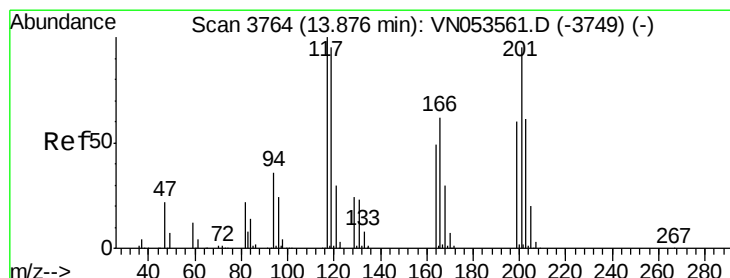
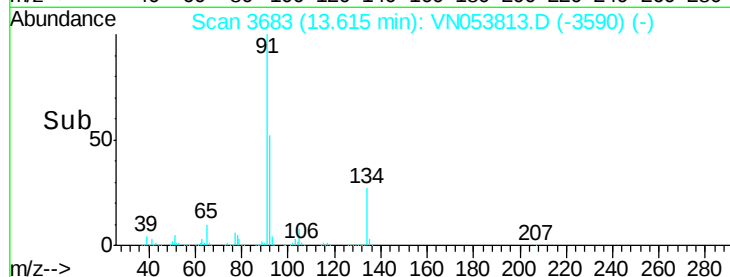
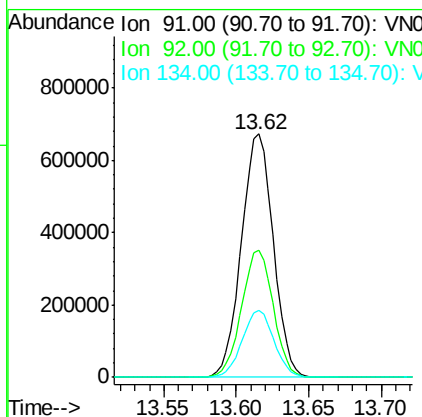
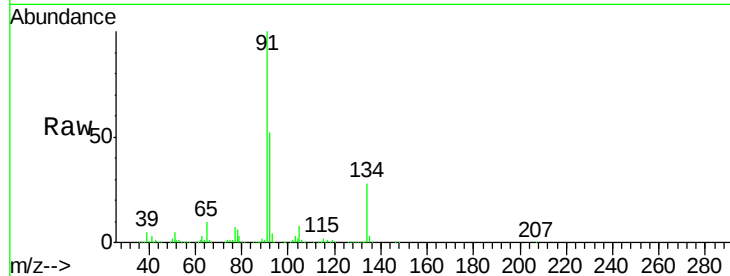
#89
n-Butylbenzene
Concen: 46.975 ug/l
RT: 13.62 min Scan# 3683
Delta R.T. 0.00 min
Lab File: VN053813.D
Acq: 15 Feb 2019 21:06

Instrument :
MSVOA_N
ClientSampleId :
VSTDCCC050EC

Tot Ion	Ratio	Lower	Upper
91	100		
92	51.9	26.3	78.8
134	27.3	13.5	40.5

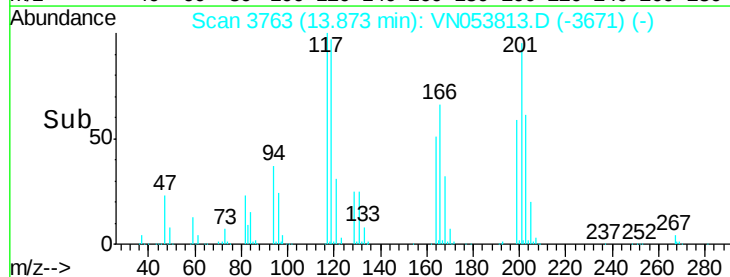
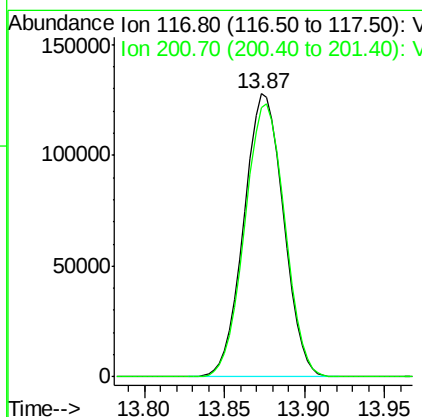
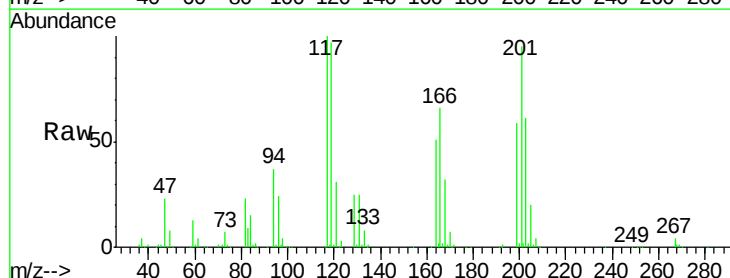
Manual Integrations
APPROVED

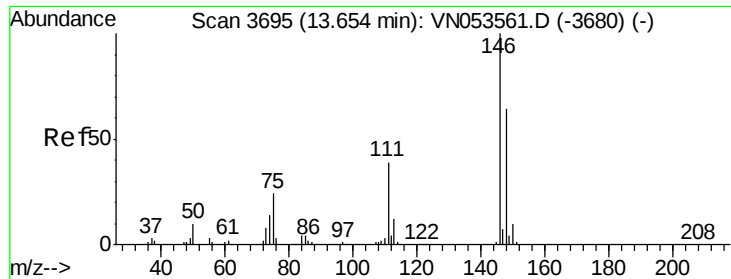
MMDadoda
2/18/2019 9:48:52 AM



#90
Hexachloroethane
Concen: 51.679 ug/l
RT: 13.87 min Scan# 3763
Delta R.T. -0.00 min
Lab File: VN053813.D
Acq: 15 Feb 2019 21:06

Tgt Ion	Ratio	Lower	Upper
117	100		
201	97.5	46.8	140.4





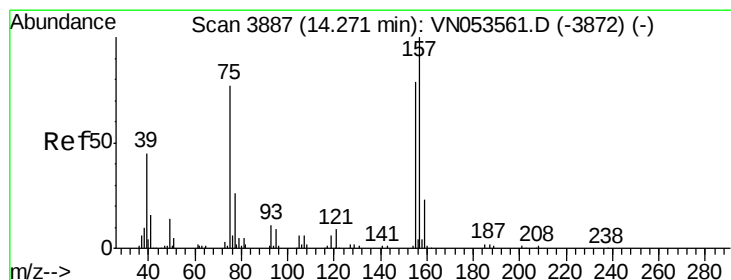
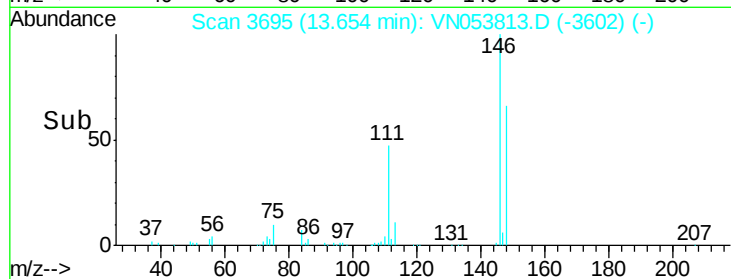
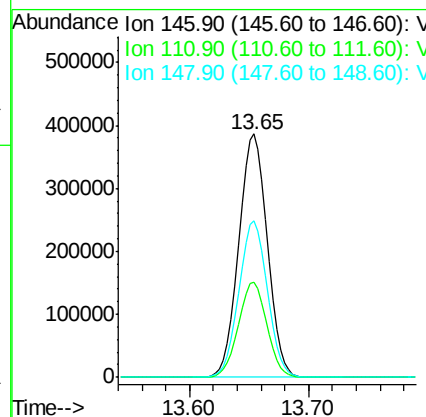
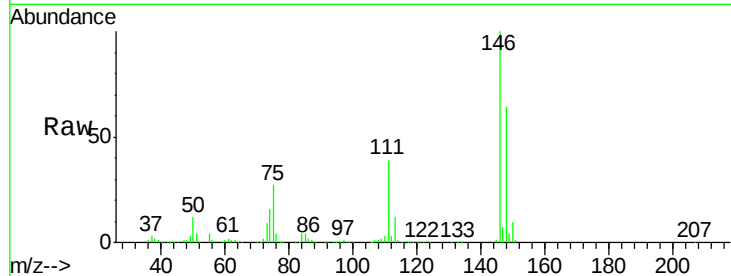
#91
 1,2-Dichlorobenzene
 Concen: 47.675 ug/l
 RT: 13.65 min Scan# 3695
 Delta R.T. 0.00 min
 Lab File: VN053813.D
 Acq: 15 Feb 2019 21:06

Instrument :
 MSVOA_N
 ClientSampleId :
 VSTDCCC050EC

Tot Ion	Ratio	Lower	Upper
146	100		
111	39.0	19.5	58.5
148	64.2	31.9	95.9

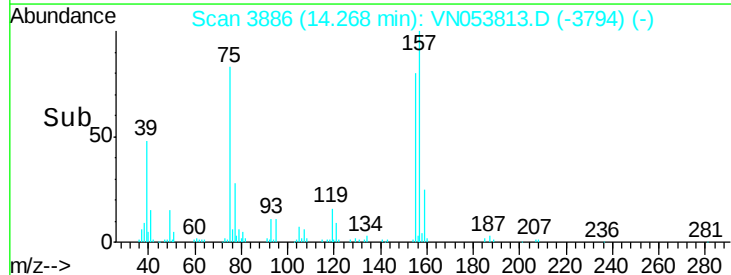
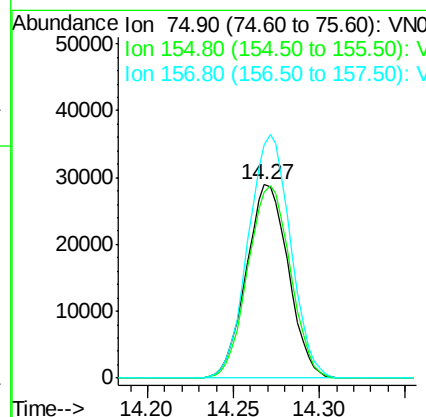
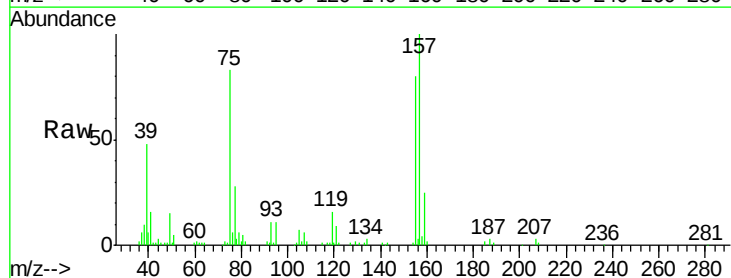
Manual Integrations
 APPROVED

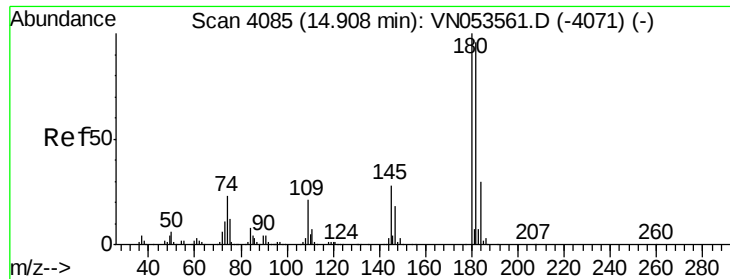
MMDadoda
 2/18/2019 9:48:52 AM



#92
 1,2-Dibromo-3-Chloropropane
 Concen: 49.424 ug/l
 RT: 14.27 min Scan# 3886
 Delta R.T. -0.00 min
 Lab File: VN053813.D
 Acq: 15 Feb 2019 21:06

Tgt Ion	Ratio	Lower	Upper
75	100		
155	100.6	48.9	146.7
157	126.3	63.7	191.3





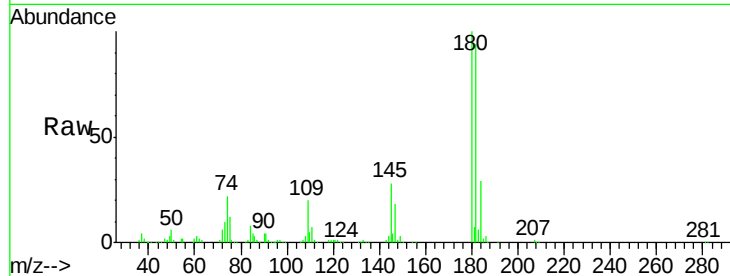
#93
 1,2,4-Trichlorobenzene
 Concen: 46.948 ug/l
 RT: 14.91 min Scan# 4085
 Delta R.T. 0.00 min
 Lab File: VN053813.D
 Acq: 15 Feb 2019 21:06

Instrument :
 MSVOA_N
 ClientSampleId :
 VSTDCCC050EC

Tot Ion	Ratio	Lower	Upper
180	100		
182	94.3	48.1	144.3
145	27.9	13.9	41.6

Manual Integrations
 APPROVED

MMDadoda
 2/18/2019 9:48:52 AM

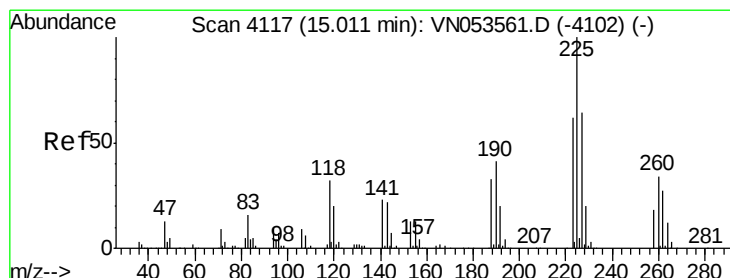
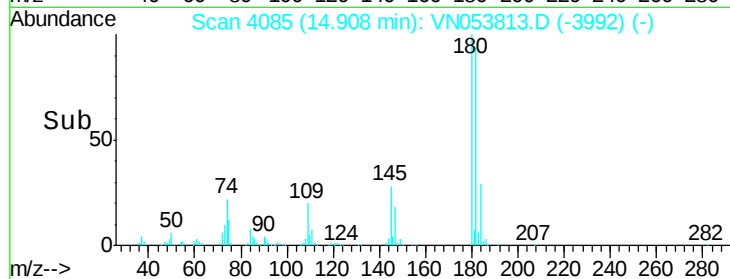
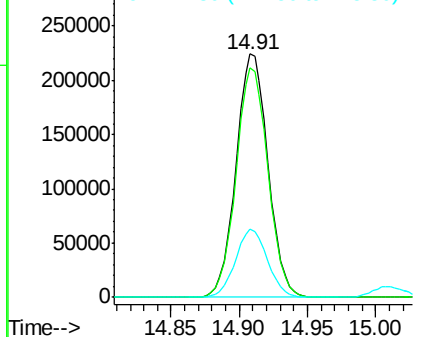


Abundance

Ion 179.80 (179.50 to 180.50): V

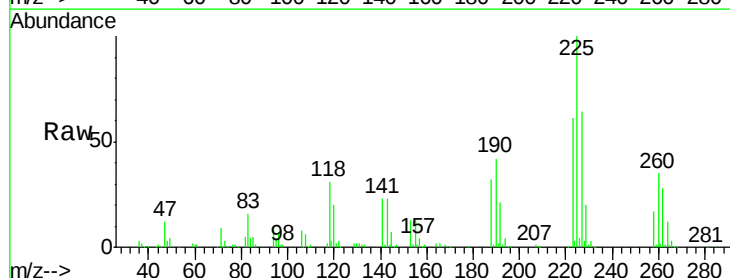
Ion 181.80 (181.50 to 182.50): V

Ion 144.80 (144.50 to 145.50): V



#94
 Hexachlorobutadiene
 Concen: 48.299 ug/l
 RT: 15.01 min Scan# 4117
 Delta R.T. 0.00 min
 Lab File: VN053813.D
 Acq: 15 Feb 2019 21:06

Tgt Ion	Ratio	Lower	Upper
225	100		
223	62.3	31.1	93.2
227	64.9	32.0	96.2

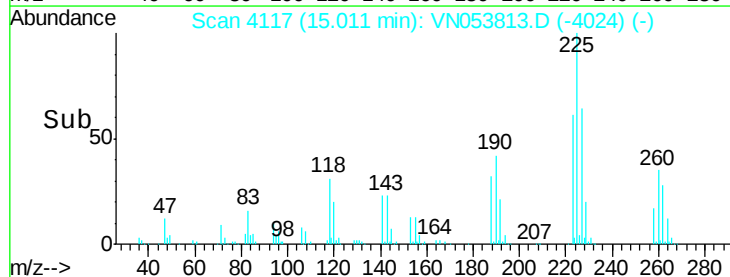
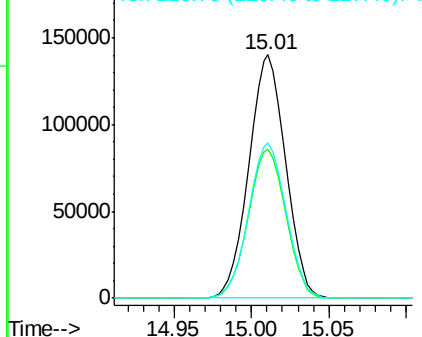


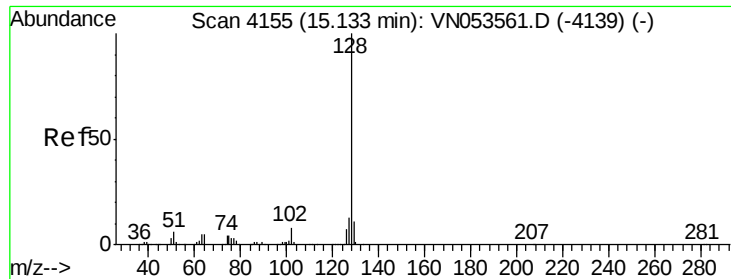
Abundance

Ion 224.70 (224.40 to 225.40): V

Ion 222.70 (222.40 to 223.40): V

Ion 226.70 (226.40 to 227.40): V





#95

Naphthalene

Concen: 40.672 ug/l

RT: 15.13 min Scan# 4155

Delta R.T. 0.00 min

Lab File: VN053813.D

Acq: 15 Feb 2019 21:06

Instrument :

MSVOA_N

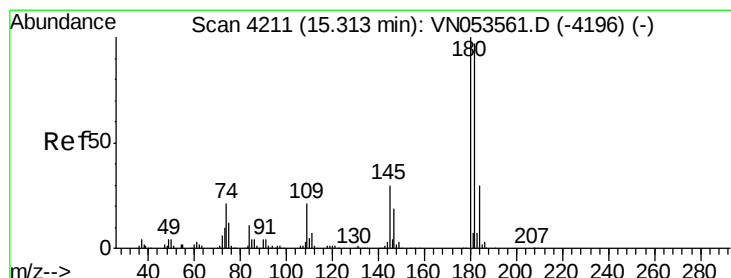
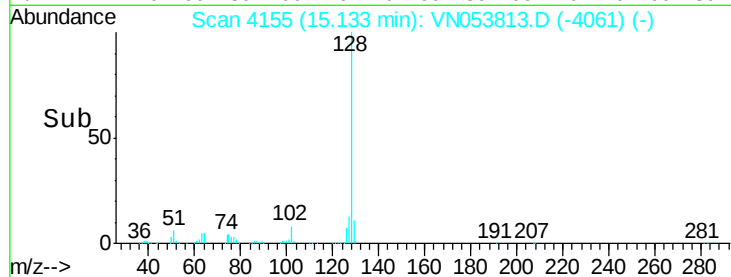
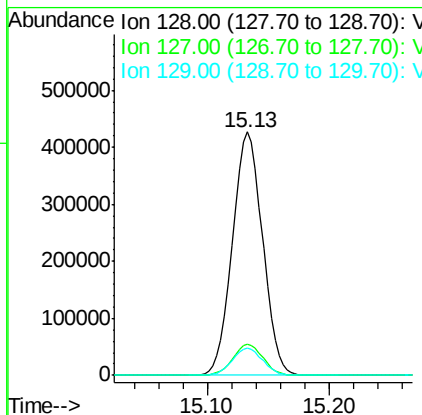
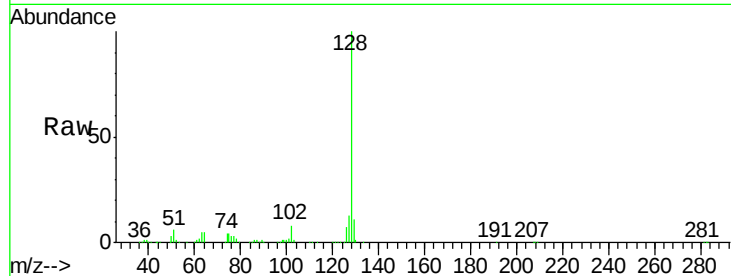
ClientSampleId :

VSTDCCC050EC

Tot Ion:	128	Resp:	733094
Ion Ratio	Lower	Upper	
128	100		
127	12.7	10.3	15.5
129	11.2	8.6	13.0

Manual Integrations
APPROVED

MMDadoda
2/18/2019 9:48:52 AM



#96

1,2,3-Trichlorobenzene

Concen: 48.221 ug/l

RT: 15.31 min Scan# 4211

Delta R.T. 0.00 min

Lab File: VN053813.D

Acq: 15 Feb 2019 21:06

Tgt Ion:	180	Resp:	346167
Ion Ratio	Lower	Upper	
180	100		
182	95.2	47.9	143.8
145	29.4	14.7	44.1

