

Data Path : Z:\VOASRV\HPCHEM1\MSVOA N\DATA\VN051319\
 Data File : VN055577.D
 Acq On : 13 May 2019 15:28
 Operator : JC/SP
 Sample : VN0513WBSD01
 Misc : 5.00mL/MSVOA N/WATER
 ALS Vial : 13 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 VN0513WBSD01

Manual Integrations
 APPROVED

MMDadoda
 5/14/2019 9:42:45 AM

Quant Time: May 14 03:08:03 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_N\METHODS\82N050819W.M
 Quant Title : SW846 8260
 QLast Update : Fri May 10 06:48:32 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	7.66	168	809111	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	8.58	114	1365585	50.00	ug/l	0.00
63) Chlorobenzene-d5	11.41	117	1197170	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.34	152	481390	50.00	ug/l	0.00

System Monitoring Compounds	R.T.	QIon	Response	Conc	Units	Dev(Min)
33) 1,2-Dichloroethane-d4	8.02	65	535836	43.98	ug/l	0.00
Spiked Amount			Recovery	=	87.96%	
35) Dibromofluoromethane	7.59	113	434515	49.33	ug/l	0.00
Spiked Amount			Recovery	=	98.66%	
50) Toluene-d8	10.09	98	1708274	49.76	ug/l	0.00
Spiked Amount			Recovery	=	99.52%	
62) 4-Bromofluorobenzene	12.40	95	578536	49.98	ug/l	0.00
Spiked Amount			Recovery	=	99.96%	

Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
2) Dichlorodifluoromethane	1.85	85	143215	17.385	ug/l	99
3) Chloromethane	2.06	50	217228	16.232	ug/l	98
4) Vinyl Chloride	2.19	62	224128	17.741	ug/l	100
5) Bromomethane	2.57	94	131815	19.044	ug/l	96
6) Chloroethane	2.71	64	137936	18.745	ug/l	99
7) Trichlorofluoromethane	3.02	101	266789	19.250	ug/l	99
8) Diethyl Ether	3.41	74	123706	19.875	ug/l	91
9) 1,1,2-Trichlorotrifluoroet	3.75	101	173984	19.732	ug/l	98
10) Methyl Iodide	3.95	142	196280	16.470	ug/l	97
11) Tert butyl alcohol	4.79	59	120195	66.821	ug/l #	88
12) 1,1-Dichloroethene	3.73	96	175121	19.803	ug/l	95
13) Acrolein	3.60	56	86275	71.967	ug/l	98
14) Allyl chloride	4.32	41	324993	17.941	ug/l	98
15) Acrylonitrile	4.99	53	449729	80.744	ug/l	100
16) Acetone	3.82	43	370381	65.660	ug/l	94
17) Carbon Disulfide	4.05	76	437059	18.109	ug/l	99
18) Methyl Acetate	4.32	43	190192	15.299	ug/l	94
19) Methyl tert-butyl Ether	5.04	73	564173	19.200	ug/l	98
20) Methylene Chloride	4.55	84	207156	17.959	ug/l	96
21) trans-1,2-Dichloroethene	5.04	96	188185	19.628	ug/l	92
22) Diisopropyl ether	5.95	45	703073	19.099	ug/l	95
23) Vinyl Acetate	5.89	43	2510761	88.195	ug/l	99
24) 1,1-Dichloroethane	5.84	63	375194	18.881	ug/l	99
25) 2-Butanone	6.84	43	567725	72.858	ug/l	95
26) 2,2-Dichloropropane	6.82	77	232454	18.765	ug/l	99
27) cis-1,2-Dichloroethene	6.83	96	221497	19.990	ug/l	98
28) Bromochloromethane	7.19	49	187232	18.143	ug/l	94
29) Tetrahydrofuran	7.21	42	389152	75.545	ug/l	97
30) Chloroform	7.37	83	352631	19.196	ug/l	99
31) Cyclohexane	7.65	56	363070	18.466	ug/l	96
32) 1,1,1-Trichloroethane	7.57	97	271272	19.392	ug/l	99
36) 1,1-Dichloropropene	7.79	75	272571	20.260	ug/l	97
37) Ethyl Acetate	6.93	43	231301	15.761	ug/l	99
38) Carbon Tetrachloride	7.77	117	220612	19.474	ug/l	97

Data Path : Z:\VOASRV\HPCHEM1\MSVOA N\DATA\VN051319\
 Data File : VN055577.D
 Acq On : 13 May 2019 15:28
 Operator : JC/SP
 Sample : VN0513WBSD01
 Misc : 5.00mL/MSVOA N/WATER
 ALS Vial : 13 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleID :
 VN0513WBSD01

Manual Integrations
 APPROVED

MMDadoda
 5/14/2019 9:42:45 AM

Quant Time: May 14 03:08:03 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_N\METHODS\82N050819W.M
 Quant Title : SW846 8260
 QLast Update : Fri May 10 06:48:32 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
39) Methylcyclohexane	9.08	83	318253	19.402	ug/l	99
40) Benzene	8.04	78	828102	19.833	ug/l	98
41) Methacrylonitrile	7.17	41	107458	15.776	ug/l #	86
42) 1,2-Dichloroethane	8.12	62	269950	18.402	ug/l	99
43) Isopropyl Acetate	8.16	43	389420	17.466	ug/l	96
44) Trichloroethene	8.83	130	209139	21.051	ug/l	94
45) 1,2-Dichloropropane	9.12	63	235164	19.684	ug/l	100
46) Dibromomethane	9.21	93	134458	19.417	ug/l	97
47) Bromodichloromethane	9.40	83	259815	19.612	ug/l	97
48) Methyl methacrylate	9.20	41	180064	16.762	ug/l	96
49) 1,4-Dioxane	9.20	88	59533	284.347	ug/l	97
51) 4-Methyl-2-Pentanone	9.98	43	1173028	79.997	ug/l	98
52) Toluene	10.15	92	494125	20.700	ug/l	100
53) t-1,3-Dichloropropene	10.38	75	248743	19.550	ug/l	98
54) cis-1,3-Dichloropropene	9.84	75	308257	20.275	ug/l	97
55) 1,1,2-Trichloroethane	10.56	97	191353	19.785	ug/l	98
56) Ethyl methacrylate	10.43	69	265369	18.447	ug/l	99
57) 1,3-Dichloropropane	10.71	76	337154	19.636	ug/l	99
58) 2-Chloroethyl Vinyl ether	9.69	63	311619	73.639	ug/l	99
59) 2-Hexanone	10.75	43	776365	75.496	ug/l	99
60) Dibromochloromethane	10.90	129	174814	19.880	ug/l	98
61) 1,2-Dibromoethane	11.00	107	183816	19.781	ug/l	98
64) Tetrachloroethene	10.63	164	209449	21.351	ug/l	97
65) Chlorobenzene	11.43	112	513370	20.843	ug/l	100
66) 1,1,1,2-Tetrachloroethane	11.51	131	175449	20.692	ug/l	99
67) Ethyl Benzene	11.51	91	926132	20.021	ug/l	99
68) m/p-Xylenes	11.62	106	674262	40.616	ug/l	98
69) o-Xylene	11.94	106	328519	20.134	ug/l	99
70) Styrene	11.96	104	549911	21.036	ug/l	98
71) Bromoform	12.12	173	109294	19.101	ug/l	99
73) Isopropylbenzene	12.25	105	875846	20.592	ug/l	99
74) N-amyl acetate	12.07	43	277613	15.190	ug/l	98
75) 1,1,2,2-Tetrachloroethane	12.50	83	249144	17.726	ug/l	99
76) 1,2,3-Trichloropropane	12.55	75	213743m	16.310	ug/l	
77) Bromobenzene	12.53	156	207732	19.581	ug/l	90
78) n-propylbenzene	12.59	91	995144	19.274	ug/l	100
79) 2-Chlorotoluene	12.67	91	593370	18.440	ug/l	98
80) 1,3,5-Trimethylbenzene	12.73	105	717393	18.634	ug/l	98
81) trans-1,4-Dichloro-2-buten	12.30	75	57371	16.153	ug/l	98
82) 4-Chlorotoluene	12.77	91	587804	19.333	ug/l	98
83) tert-Butylbenzene	12.99	119	603610	18.291	ug/l	99
84) 1,2,4-Trimethylbenzene	13.04	105	685168	19.405	ug/l	99
85) sec-Butylbenzene	13.17	105	805209	18.360	ug/l	100
86) p-Isopropyltoluene	13.29	119	690793	19.354	ug/l	99
87) 1,3-Dichlorobenzene	13.28	146	335870	20.489	ug/l	98
88) 1,4-Dichlorobenzene	13.36	146	326291	20.169	ug/l	99
89) n-Butylbenzene	13.61	91	533153	19.271	ug/l	98
90) Hexachloroethane	13.87	117	100851	17.321	ug/l	100
91) 1,2-Dichlorobenzene	13.65	146	329038	20.083	ug/l	99
92) 1,2-Dibromo-3-Chloropropan	14.27	75	34693	15.672	ug/l	95

Data Path : Z:\VOASRV\HPCHEM1\MSVOA N\DATA\VN051319\
Data File : VN055577.D
Acq On : 13 May 2019 15:28
Operator : JC/SP
Sample : VN0513WBSD01
Misc : 5.00mL/MSVOA N/WATER
ALS Vial : 13 Sample Multiplier: 1

Instrument :
MSVOA_N
ClientSampleId :
VN0513WBSD01

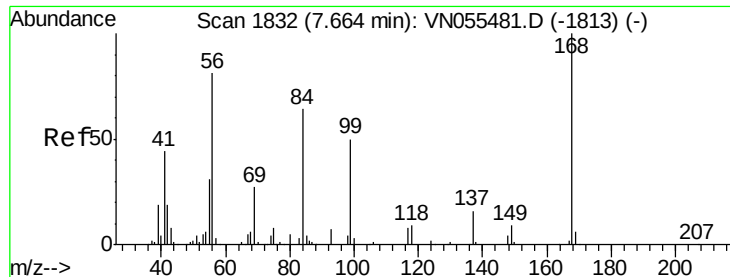
Manual Integrations
APPROVED

MMDadoda
5/14/2019 9:42:45 AM

Quant Time: May 14 03:08:03 2019
Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_N\METHODS\82N050819W.M
Quant Title : SW846 8260
QLast Update : Fri May 10 06:48:32 2019
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
93) 1,2,4-Trichlorobenzene	14.91	180	131531	20.461	ug/l	99
94) Hexachlorobutadiene	15.01	225	102734	19.781	ug/l	100
95) Naphthalene	15.13	128	346730	19.197	ug/l	99
96) 1,2,3-Trichlorobenzene	15.31	180	143630	20.115	ug/l	98

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



#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 7.66 min Scan# 1832

Delta R.T. -0.00 min

Lab File: VN055577.D

Acq: 13 May 2019 15:28

Instrument :

MSVOA_N

ClientSampleId :

VN0513WBSD01

Tot Ion:168 Resp: 809111

Ion Ratio Lower Upper

168 100

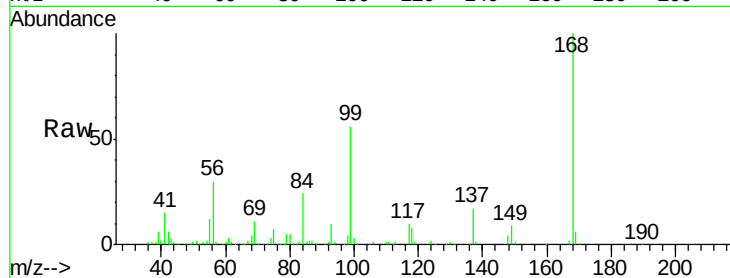
99 54.6 47.0 70.4

Manual Integrations

APPROVED

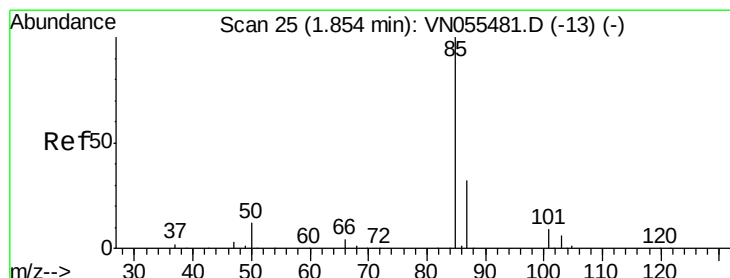
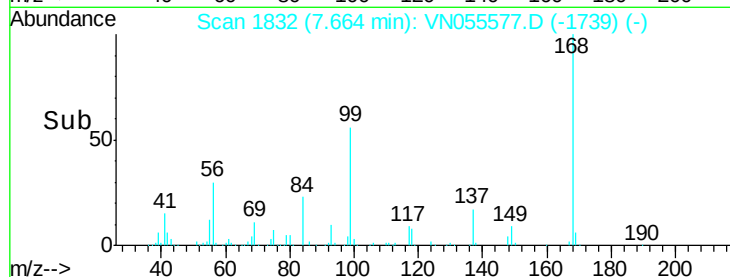
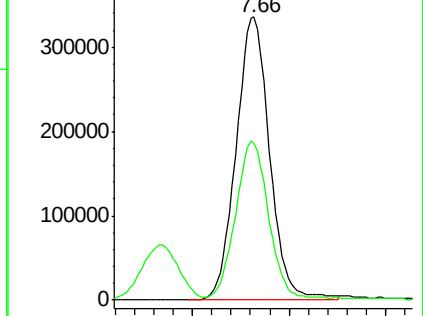
MMDadoda

5/14/2019 9:42:45 AM



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VNO



#2

Dichlorodifluoromethane

Concen: 17.385 ug/l

RT: 1.85 min Scan# 24

Delta R.T. -0.00 min

Lab File: VN055577.D

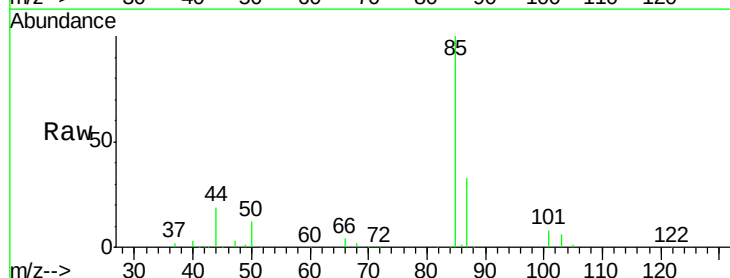
Acq: 13 May 2019 15:28

Tgt Ion: 85 Resp: 143215

Ion Ratio Lower Upper

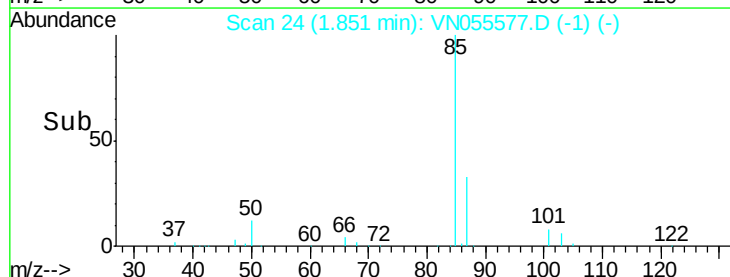
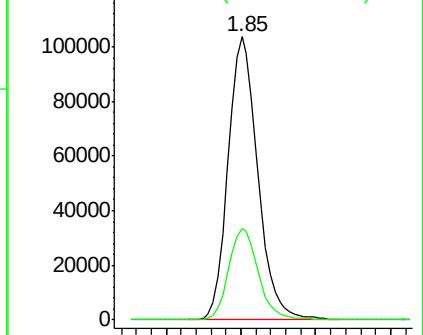
85 100

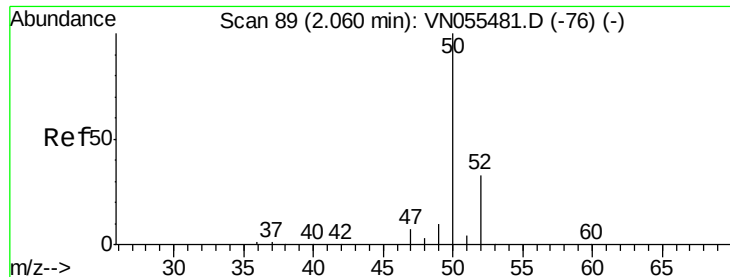
87 32.5 16.0 48.0



Abundance Ion 84.90 (84.60 to 85.60): VNO

Ion 86.90 (86.60 to 87.60): VNO





#3

Chloromethane

Concen: 16.232 ug/l

RT: 2.06 min Scan# 89

Delta R.T. -0.00 min

Lab File: VN055577.D

Acq: 13 May 2019 15:28

Instrument :

MSVOA_N

ClientSampleId :

VN0513WBSD01

Tot Ion: 50 Resp: 217228

Ion Ratio Lower Upper

50 100

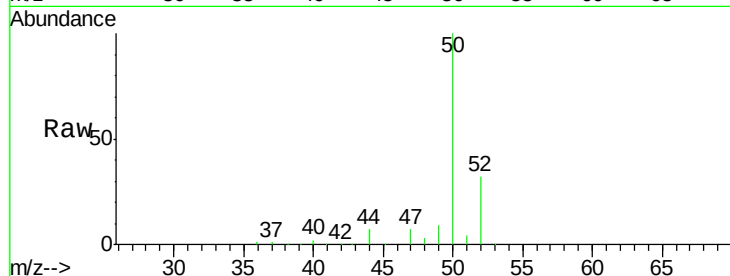
52 32.3 26.6 39.8

Manual Integrations

APPROVED

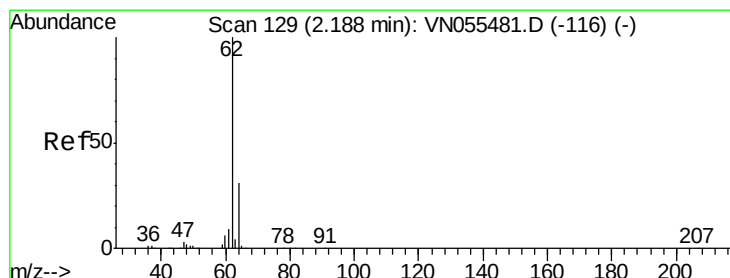
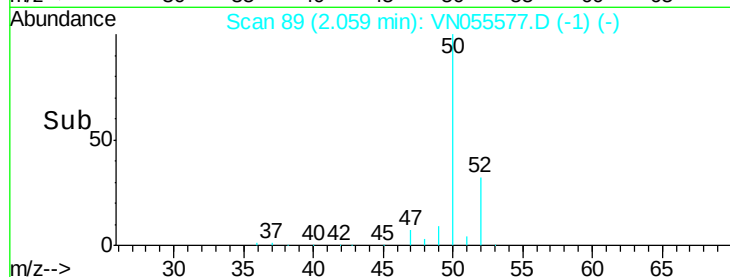
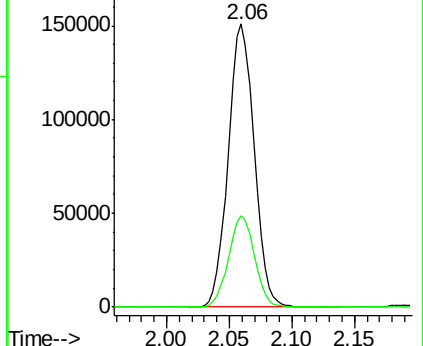
MMDadoda

5/14/2019 9:42:45 AM



Abundance Ion 49.90 (49.60 to 50.60): VN0

Ion 51.90 (51.60 to 52.60): VN0



#4

Vinyl Chloride

Concen: 17.741 ug/l

RT: 2.19 min Scan# 129

Delta R.T. -0.00 min

Lab File: VN055577.D

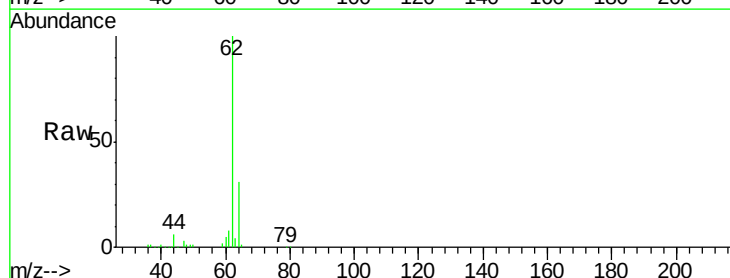
Acq: 13 May 2019 15:28

Tgt Ion: 62 Resp: 224128

Ion Ratio Lower Upper

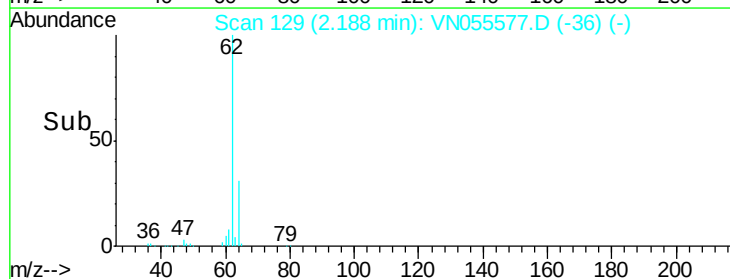
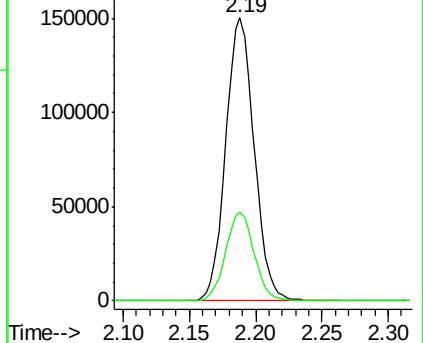
62 100

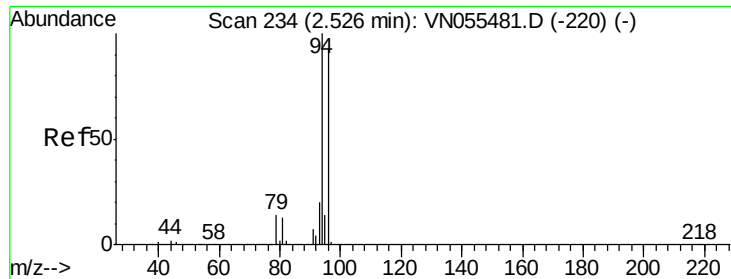
64 31.4 25.0 37.6



Abundance Ion 61.90 (61.60 to 62.60): VN0

Ion 63.90 (63.60 to 64.60): VN0





#5

Bromomethane

Concen: 19.044 ug/l

RT: 2.57 min Scan# 248

Delta R.T. 0.04 min

Lab File: VN055577.D

Acq: 13 May 2019 15:28

Instrument :

MSVOA_N

ClientSampleId :

VN0513WBSD01

Tot Ion: 94 Resp: 131815

Ion Ratio Lower Upper

94 100

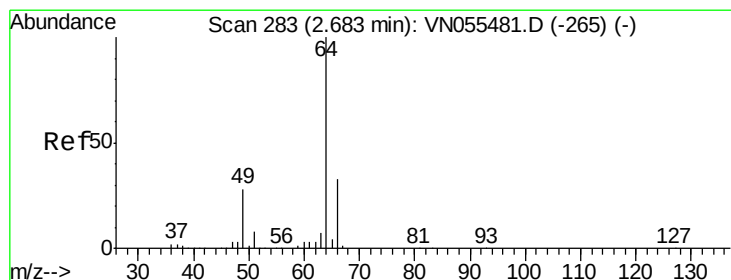
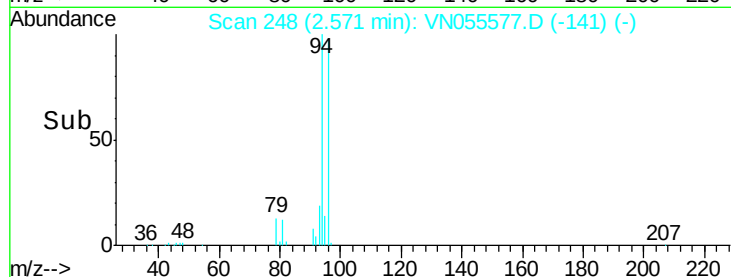
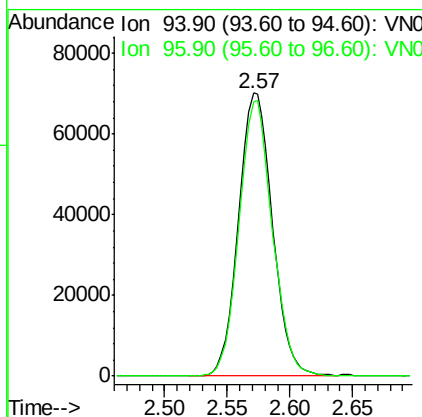
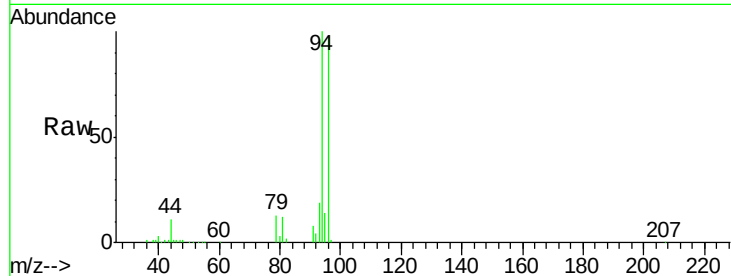
96 96.9 74.8 112.2

Manual Integrations

APPROVED

MMDadoda

5/14/2019 9:42:45 AM



#6

Chloroethane

Concen: 18.745 ug/l

RT: 2.71 min Scan# 291

Delta R.T. 0.03 min

Lab File: VN055577.D

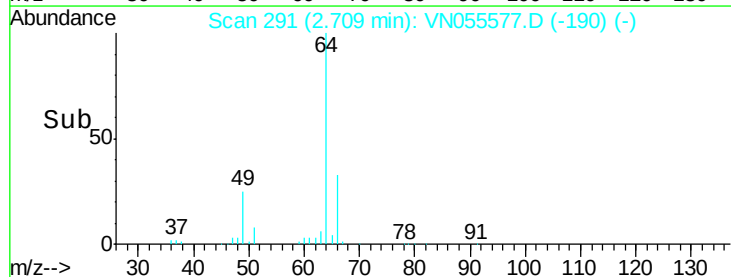
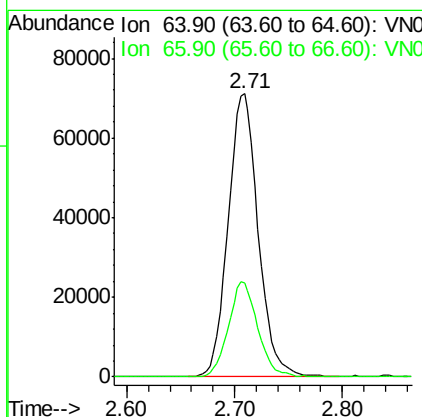
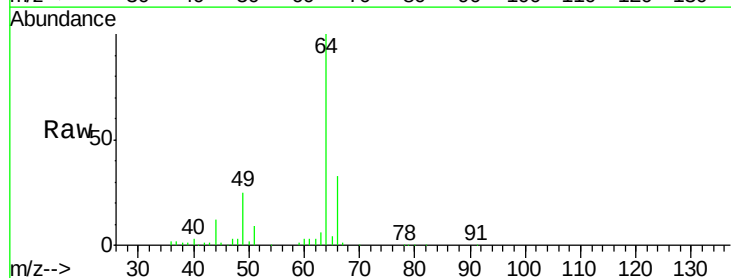
Acq: 13 May 2019 15:28

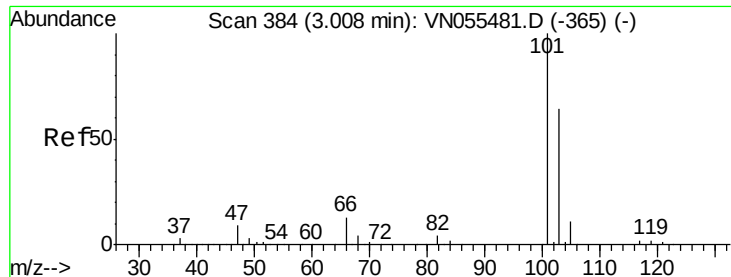
Tgt Ion: 64 Resp: 137936

Ion Ratio Lower Upper

64 100

66 33.1 26.2 39.2





#7

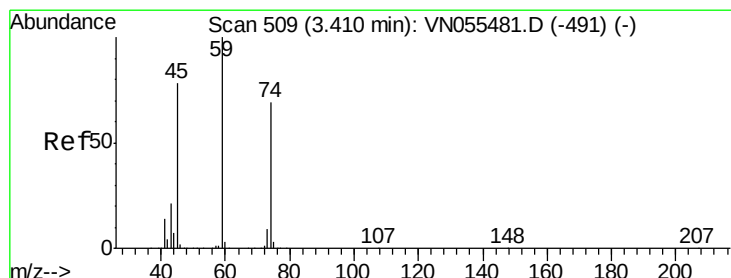
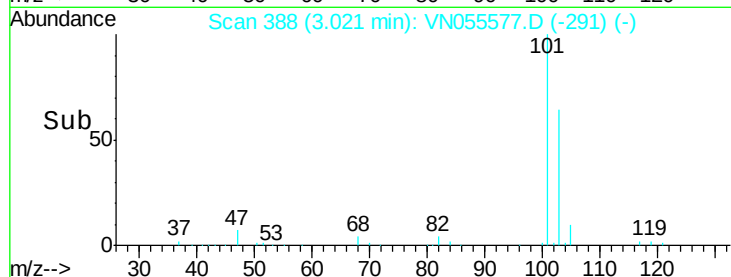
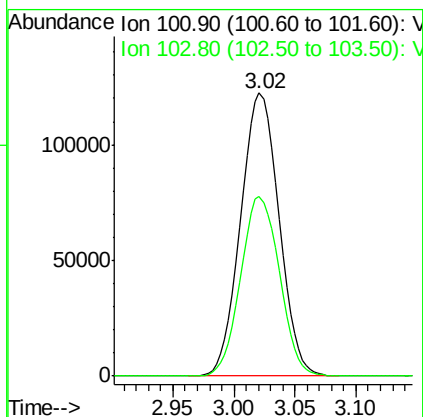
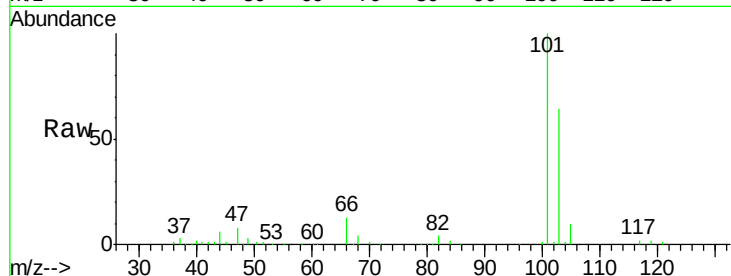
Trichlorofluoromethane
 Concen: 19.250 ug/l
 RT: 3.02 min Scan# 388
 Delta R.T. 0.01 min
 Lab File: VN055577.D
 Acq: 13 May 2019 15:28

Instrument :
 MSVOA_N
 ClientSampleId :
 VN0513WBSD01

Tot Ion	Ratio	Lower	Upper
101	100		
103	63.5	51.2	76.8

Manual Integrations
 APPROVED

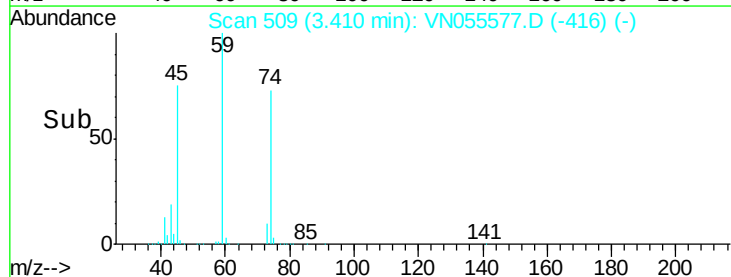
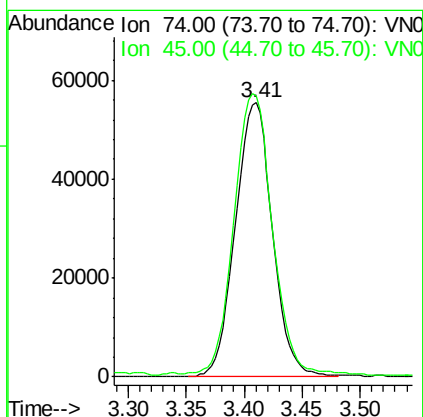
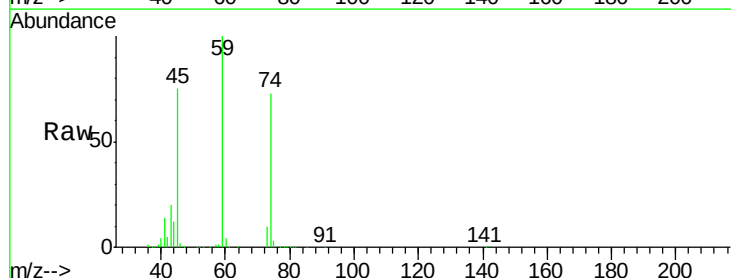
MMDadoda
 5/14/2019 9:42:45 AM

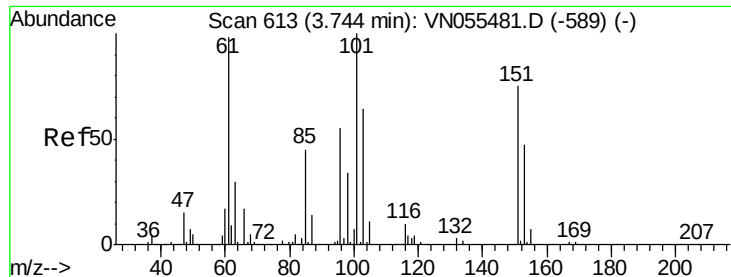


#8

Diethyl Ether
 Concen: 19.875 ug/l
 RT: 3.41 min Scan# 509
 Delta R.T. -0.00 min
 Lab File: VN055577.D
 Acq: 13 May 2019 15:28

Tgt Ion	Ratio	Lower	Upper
74	100		
45	106.0	58.1	174.3





#9

1,1,2-Trichlorotrifluoroethane

Concen: 19.732 ug/l

RT: 3.75 min Scan# 616

Delta R.T. 0.01 min

Lab File: VN055577.D

Acq: 13 May 2019 15:28

Instrument :

MSVOA_N

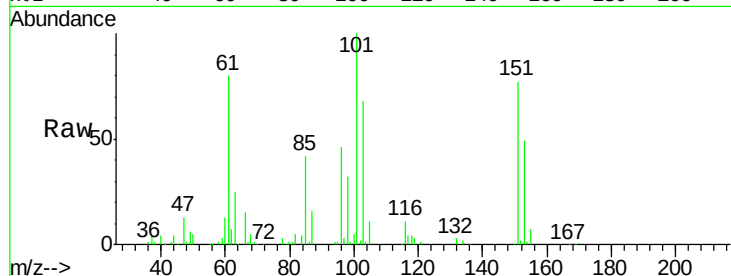
ClientSampled :

VN0513WBSD01

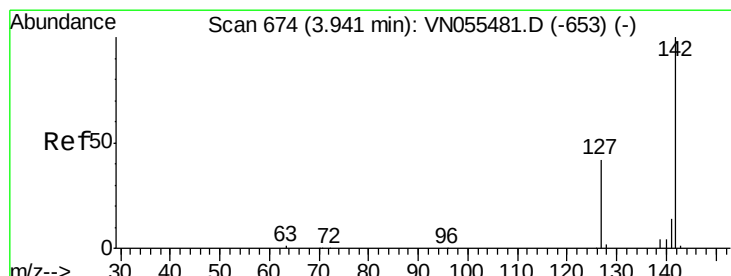
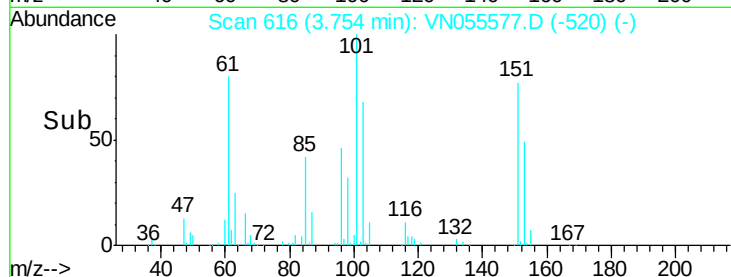
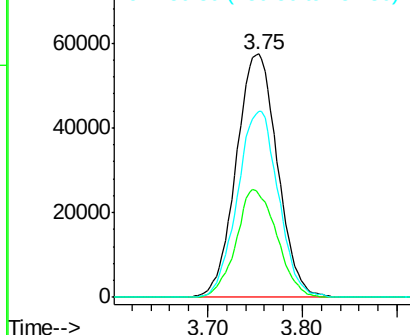
Tot Ion:	101	Resp:	173984
Ion Ratio	Lower	Upper	
101	100		
85	43.7	35.5	53.3
151	75.7	59.2	88.8

Manual Integrations
APPROVED

MMDadoda
5/14/2019 9:42:45 AM



Abundance Ion 100.90 (100.60 to 101.60): V
Ion 84.90 (84.60 to 85.60): V
Ion 150.80 (150.50 to 151.50): V



#10

Methyl Iodide

Concen: 16.470 ug/l

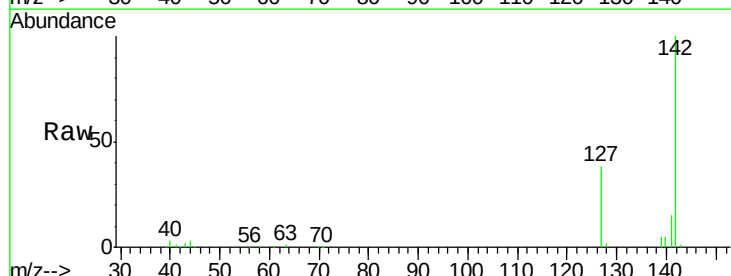
RT: 3.95 min Scan# 676

Delta R.T. 0.01 min

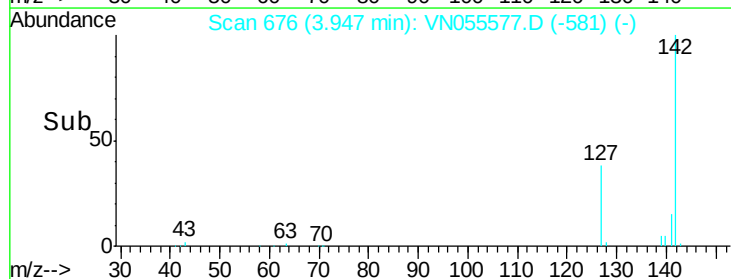
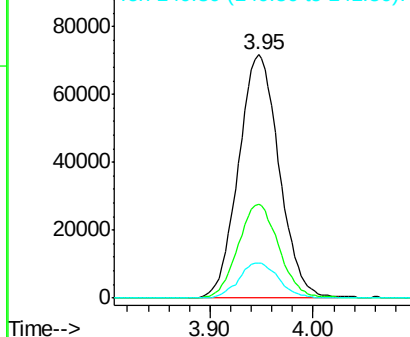
Lab File: VN055577.D

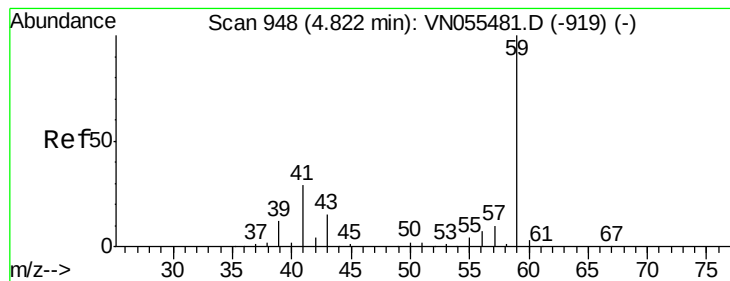
Acq: 13 May 2019 15:28

Tgt Ion:	142	Resp:	196280
Ion Ratio	Lower	Upper	
142	100		
127	38.9	33.0	49.4
141	14.2	11.4	17.0



Abundance Ion 141.80 (141.50 to 142.50): V
Ion 126.80 (126.50 to 127.50): V
Ion 140.80 (140.50 to 141.50): V





#11

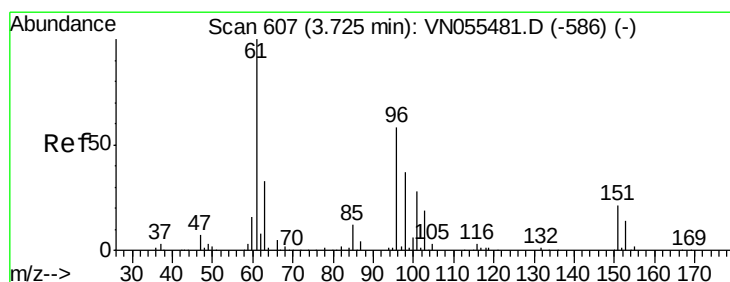
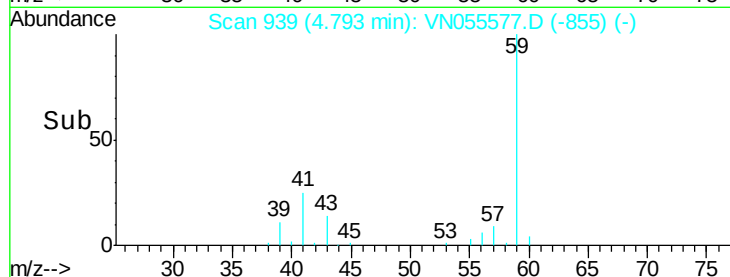
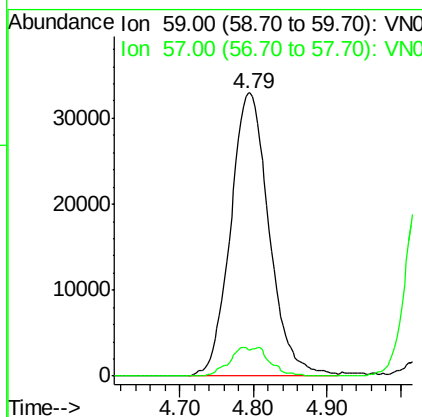
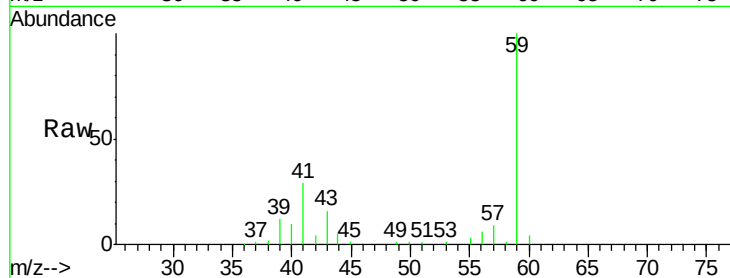
Tert butyl alcohol
 Concen: 66.821 ug/l
 RT: 4.79 min Scan# 939
 Delta R.T. -0.03 min
 Lab File: VN055577.D
 Acq: 13 May 2019 15:28

Instrument :
 MSVOA_N
 ClientSampled :
 VN0513WBSD01

Tot Ion	Ratio	Resp	Lower	Upper
59	100	120195		
57	5.5	8.0	12.0#	

Manual Integrations
 APPROVED

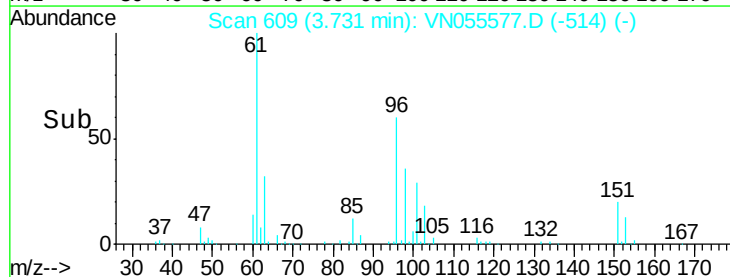
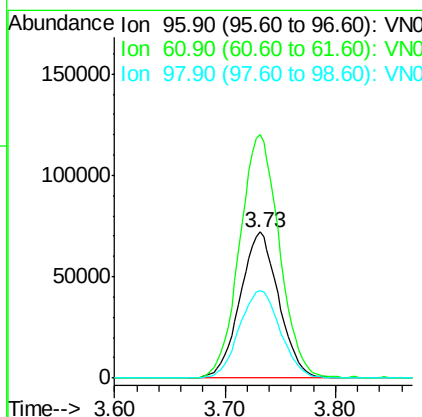
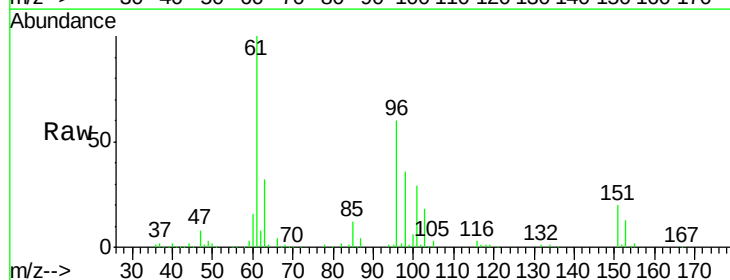
MMDadoda
 5/14/2019 9:42:45 AM

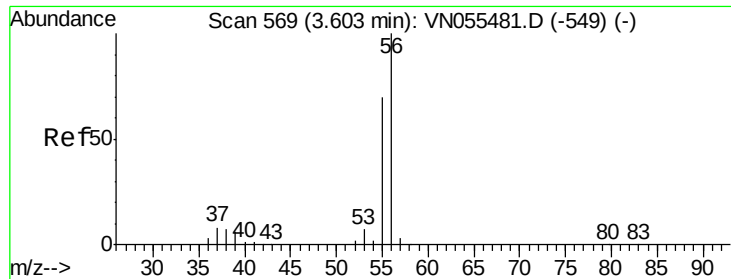


#12

1,1-Dichloroethene
 Concen: 19.803 ug/l
 RT: 3.73 min Scan# 609
 Delta R.T. 0.01 min
 Lab File: VN055577.D
 Acq: 13 May 2019 15:28

Tgt Ion	Ratio	Resp	Lower	Upper
96	100	175121		
61	166.5	138.7	208.1	
98	59.9	50.6	76.0	





#13

Acrolein

Concen: 71.967 ug/l

RT: 3.60 min Scan# 569

Delta R.T. -0.00 min

Lab File: VN055577.D

Acq: 13 May 2019 15:28

Instrument :

MSVOA_N

ClientSampleId :

VN0513WBSD01

Tot Ion: 56 Resp: 86275

Ion Ratio Lower Upper

56 100

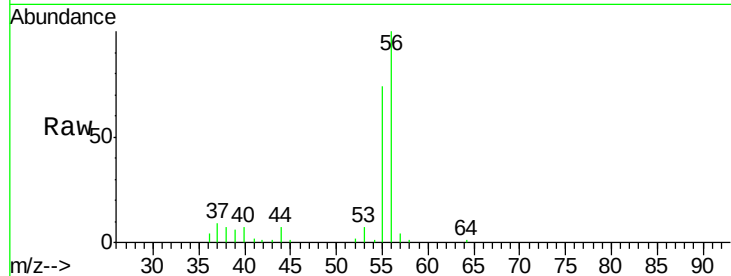
55 70.5 57.7 86.5

Manual Integrations

APPROVED

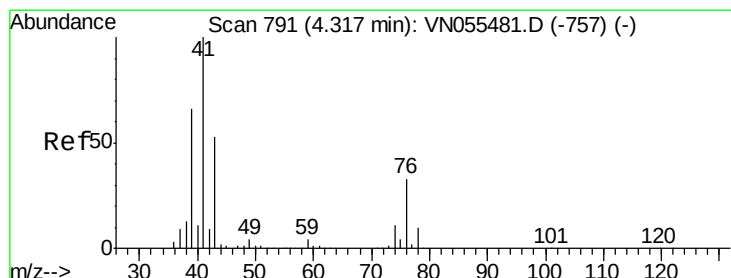
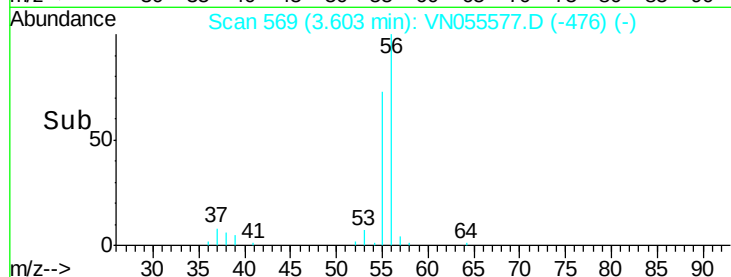
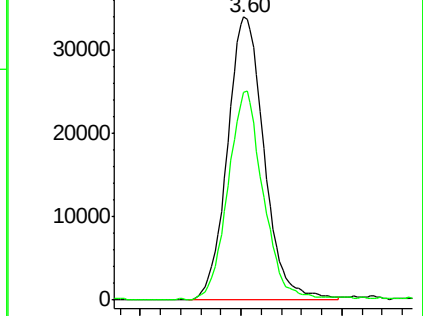
MMDadoda

5/14/2019 9:42:45 AM



Abundance Ion 56.00 (55.70 to 56.70): VN0

Ion 55.00 (54.70 to 55.70): VN0



#14

Allyl chloride

Concen: 17.941 ug/l

RT: 4.32 min Scan# 791

Delta R.T. -0.00 min

Lab File: VN055577.D

Acq: 13 May 2019 15:28

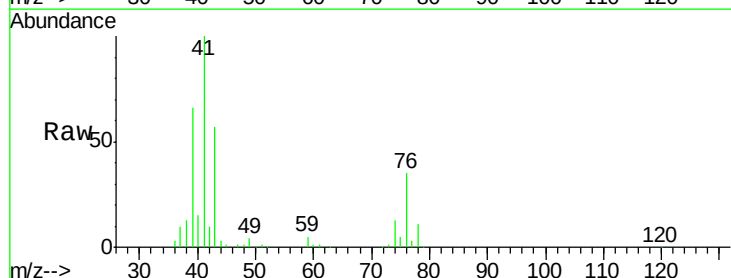
Tgt Ion: 41 Resp: 324993

Ion Ratio Lower Upper

41 100

39 61.9 49.8 74.8

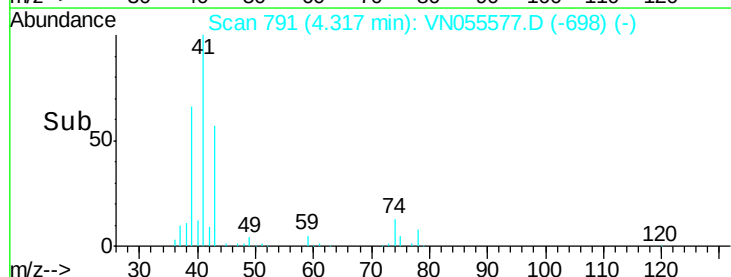
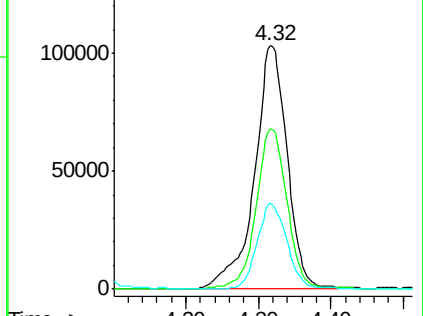
76 31.8 23.5 35.3

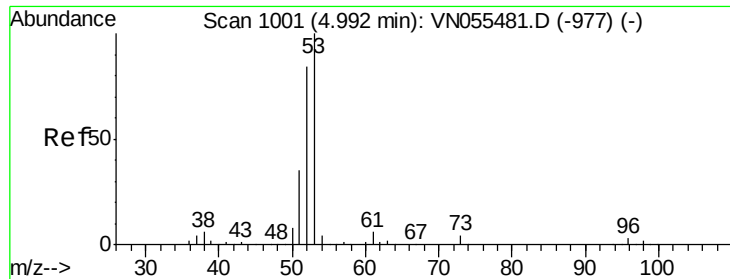


Abundance Ion 41.00 (40.70 to 41.70): VN0

Ion 39.00 (38.70 to 39.70): VN0

Ion 75.90 (75.60 to 76.60): VN0





#15

Acrylonitrile

Concen: 80.744 ug/l

RT: 4.99 min Scan# 999

Delta R.T. -0.01 min

Lab File: VN055577.D

Acq: 13 May 2019 15:28

Instrument :

MSVOA_N

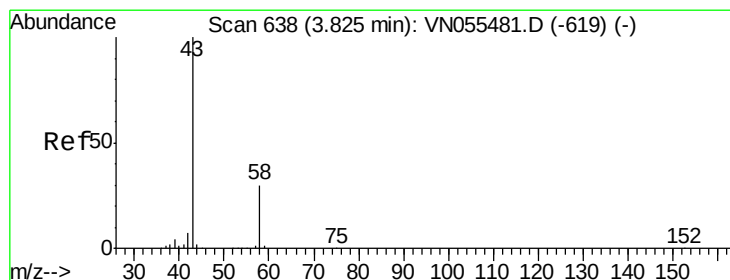
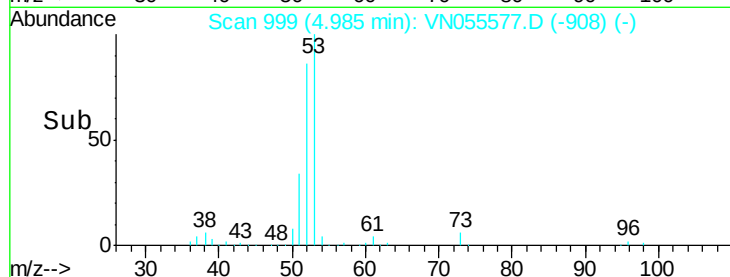
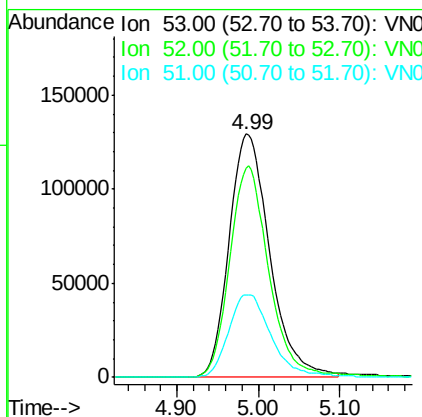
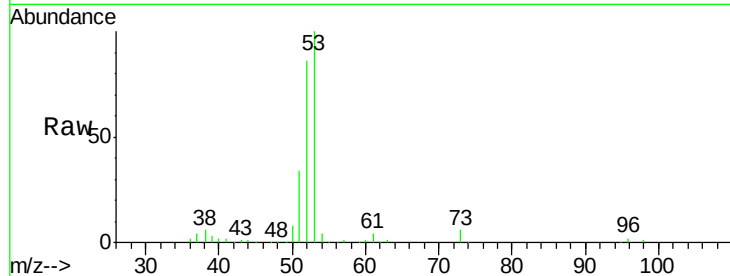
ClientSampleId :

VN0513WBSD01

Tot Ion:	53	Resp:	449729
Ion	Ratio	Lower	Upper
53	100		
52	82.6	66.1	99.1
51	35.4	28.3	42.5

Manual Integrations
APPROVED

MMDadoda
5/14/2019 9:42:45 AM



#16

Acetone

Concen: 65.660 ug/l

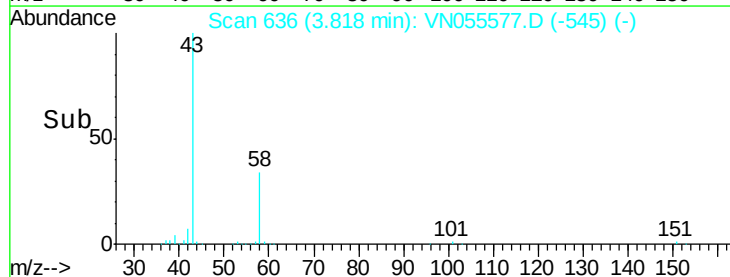
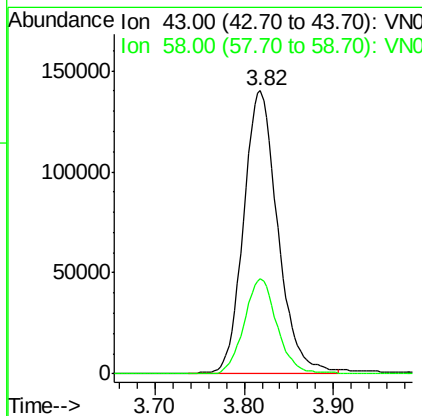
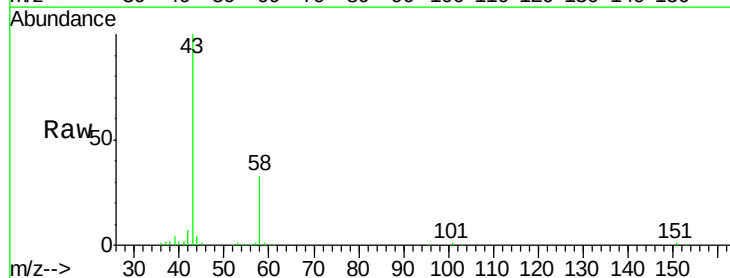
RT: 3.82 min Scan# 636

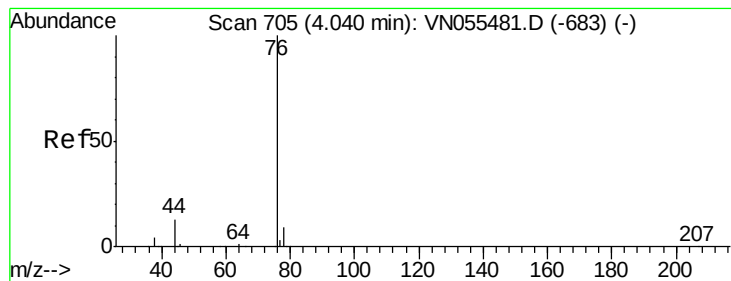
Delta R.T. -0.01 min

Lab File: VN055577.D

Acq: 13 May 2019 15:28

Tgt Ion:	43	Resp:	370381
Ion	Ratio	Lower	Upper
43	100		
58	33.4	24.2	36.2





#17

Carbon Disulfide

Concen: 18.109 ug/l

RT: 4.05 min Scan# 707

Delta R.T. 0.01 min

Lab File: VN055577.D

Acq: 13 May 2019 15:28

Instrument :

MSVOA_N

ClientSampleId :

VN0513WBSD01

Tot Ion: 76 Resp: 437059

Ion Ratio Lower Upper

76 100

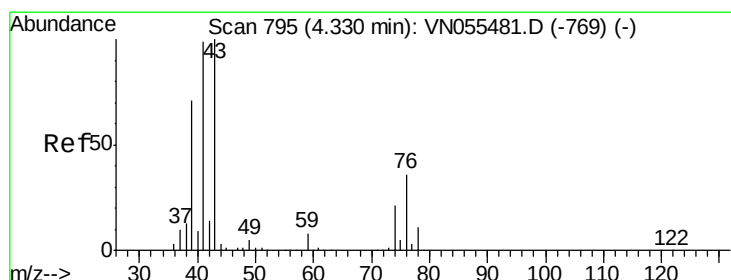
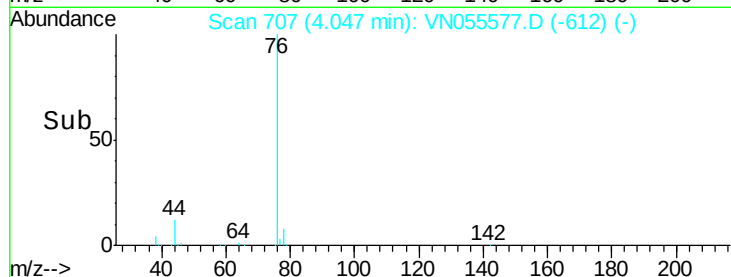
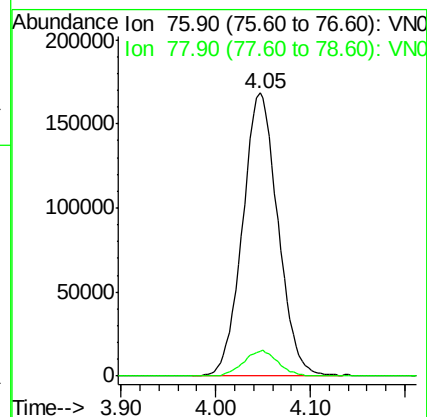
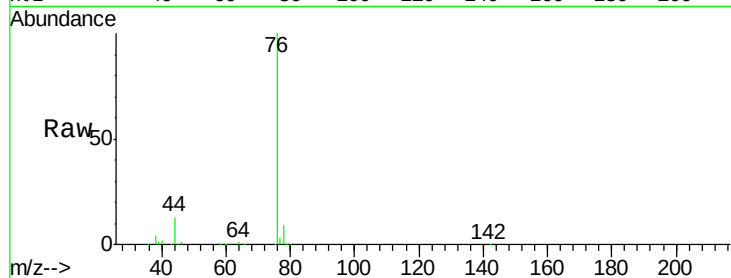
78 8.8 7.4 11.0

Manual Integrations

APPROVED

MMDadoda

5/14/2019 9:42:45 AM



#18

Methyl Acetate

Concen: 15.299 ug/l

RT: 4.32 min Scan# 793

Delta R.T. -0.01 min

Lab File: VN055577.D

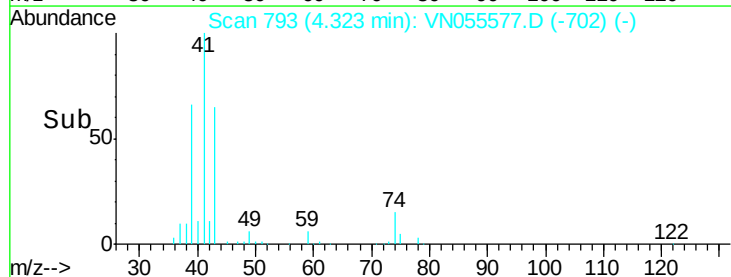
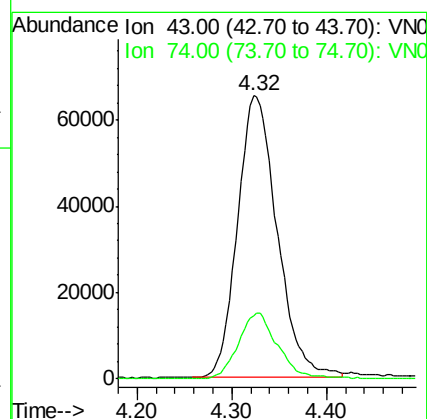
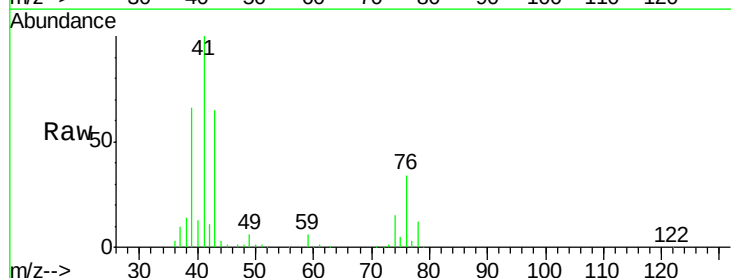
Acq: 13 May 2019 15:28

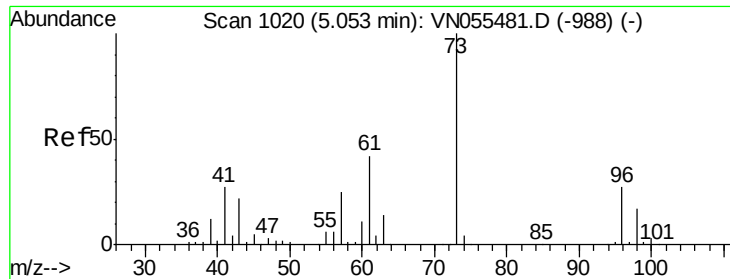
Tgt Ion: 43 Resp: 190192

Ion Ratio Lower Upper

43 100

74 23.3 16.3 24.5





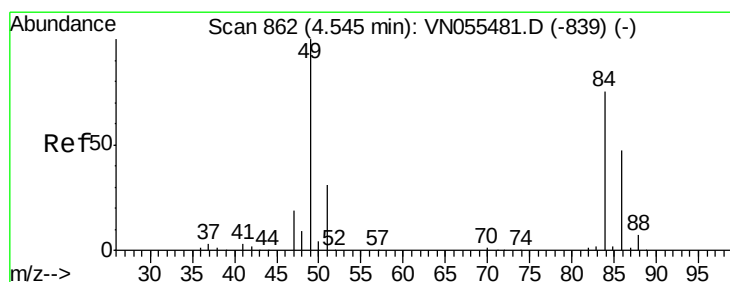
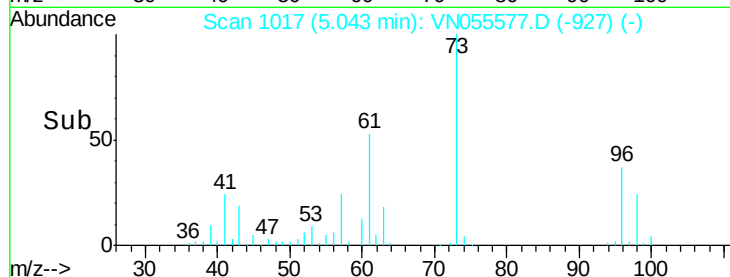
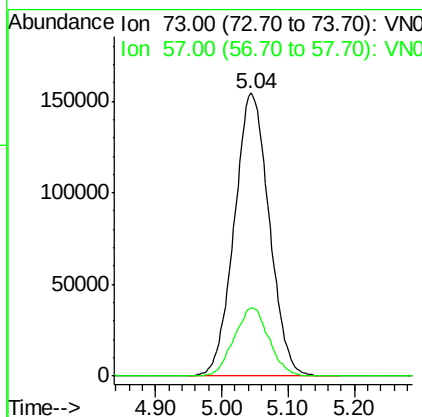
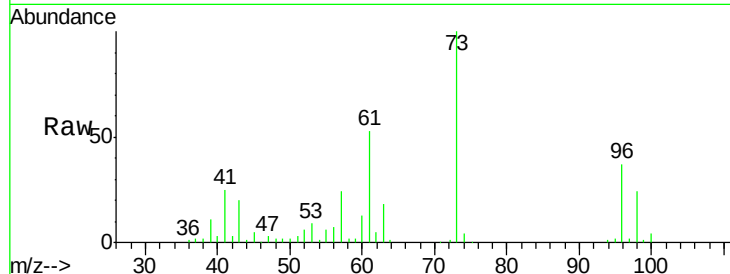
#19
Methyl tert-butyl Ether
Concen: 19.200 ug/l
RT: 5.04 min Scan# 1017
Delta R.T. -0.01 min
Lab File: VN055577.D
Acq: 13 May 2019 15:28

Instrument :
MSVOA_N
ClientSampleId :
VN0513WBSD01

Tot Ion: 73 Resp: 564173
Ion Ratio Lower Upper
73 100
57 24.1 20.0 30.0

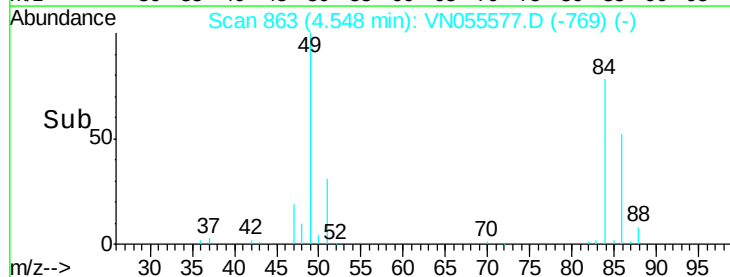
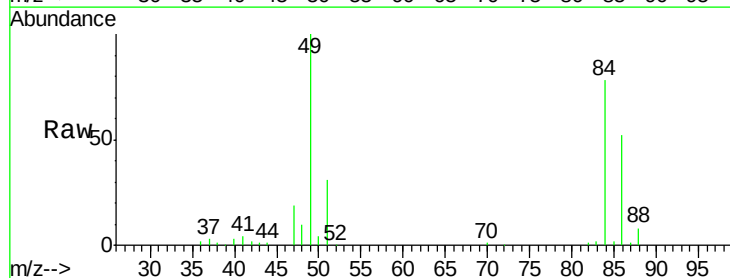
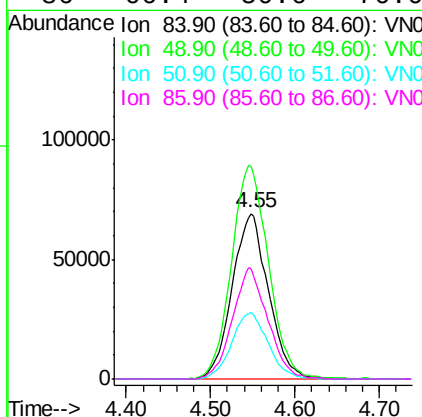
Manual Integrations
APPROVED

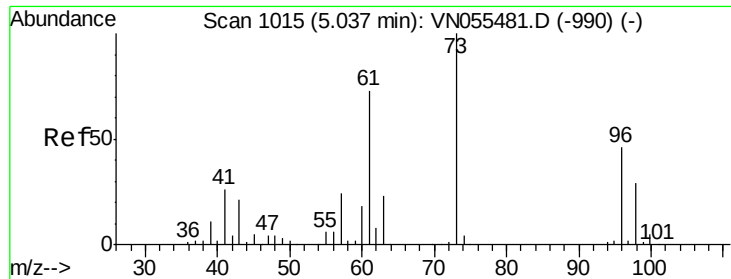
MMDadoda
5/14/2019 9:42:45 AM



#20
Methylene Chloride
Concen: 17.959 ug/l
RT: 4.55 min Scan# 863
Delta R.T. 0.00 min
Lab File: VN055577.D
Acq: 13 May 2019 15:28

Tgt Ion: 84 Resp: 207156
Ion Ratio Lower Upper
84 100
49 128.4 107.0 160.6
51 40.0 33.0 49.4
86 66.4 50.6 76.0





#21

trans-1,2-Dichloroethene

Concen: 19.628 ug/l

RT: 5.04 min Scan# 1015

Delta R.T. -0.00 min

Lab File: VN055577.D

Acq: 13 May 2019 15:28

Instrument :

MSVOA_N

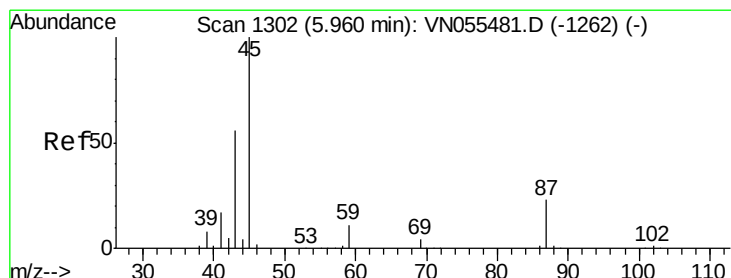
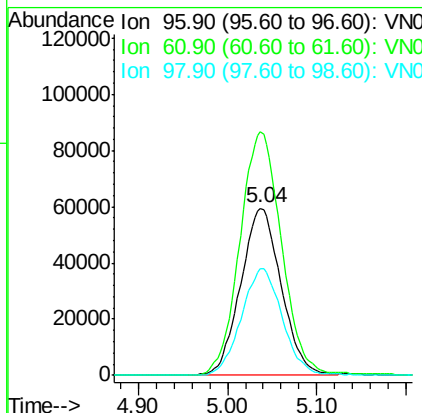
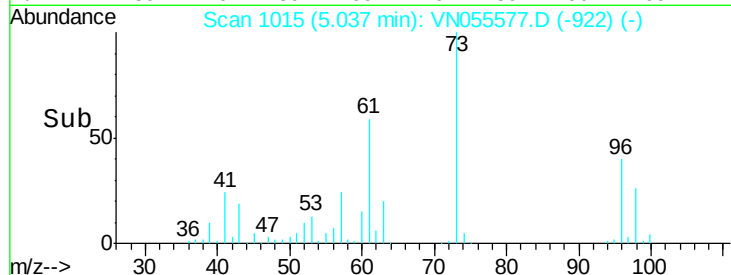
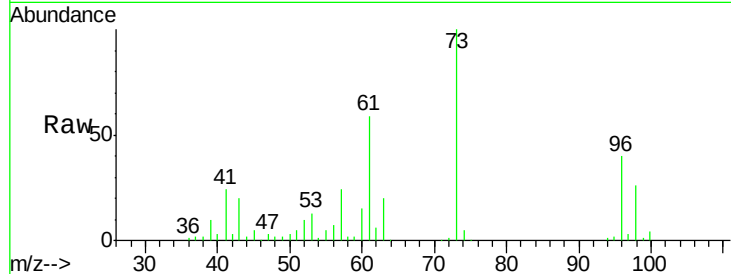
ClientSampleId :

VN0513WBSD01

Tot Ion:	96	Resp:	188185
Ion	Ratio	Lower	Upper
96	100		
61	145.5	127.4	191.0
98	64.1	51.6	77.4

Manual Integrations
APPROVED

MMDadoda
5/14/2019 9:42:45 AM



#22

Diisopropyl ether

Concen: 19.099 ug/l

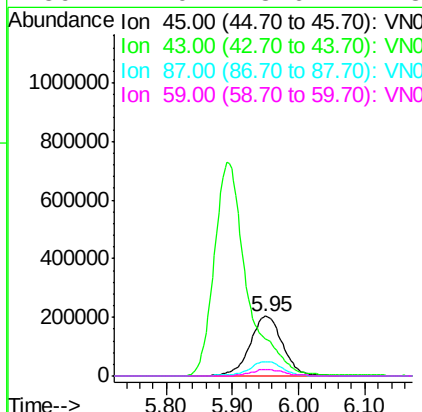
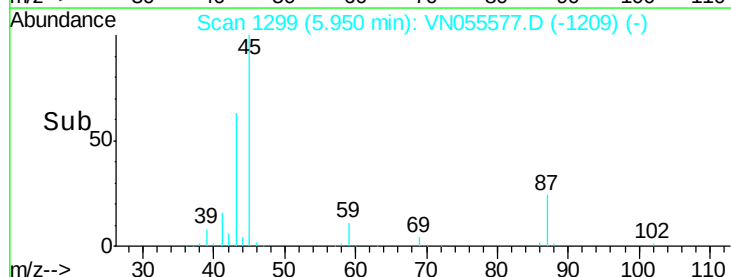
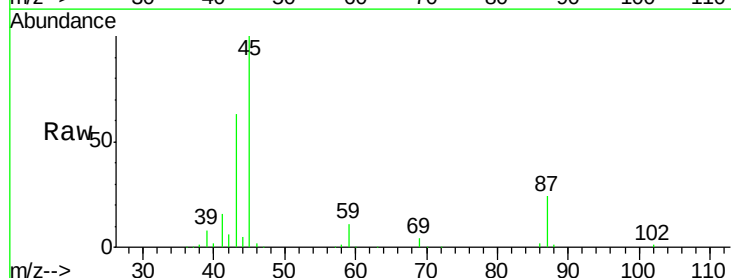
RT: 5.95 min Scan# 1299

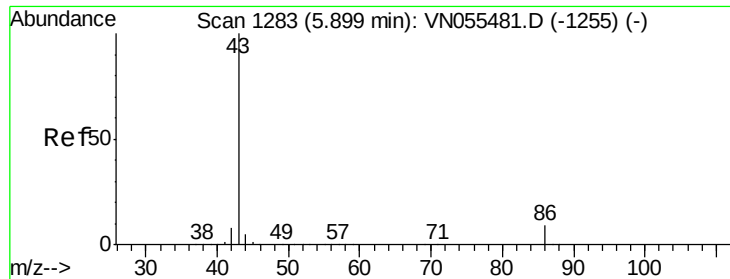
Delta R.T. -0.01 min

Lab File: VN055577.D

Acq: 13 May 2019 15:28

Tgt Ion:	45	Resp:	703073
Ion	Ratio	Lower	Upper
45	100		
43	61.0	44.6	66.8
87	23.7	18.6	28.0
59	11.0	8.6	12.8





#23

Vinyl Acetate

Concen: 88.195 ug/l

RT: 5.89 min Scan# 1281

Delta R.T. -0.01 min

Lab File: VN055577.D

Acq: 13 May 2019 15:28

Instrument :

MSVOA_N

ClientSampleId :

VN0513WBSD01

Tot Ion: 43 Resp: 2510761

Ion Ratio Lower Upper

43 100

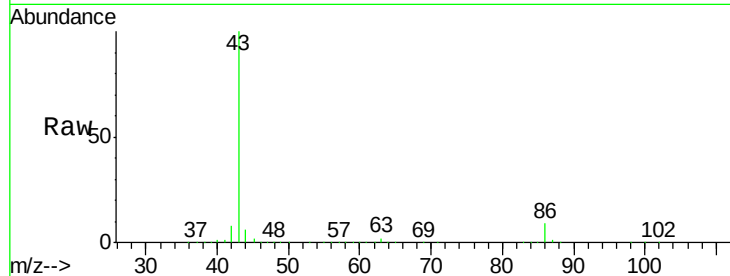
86 9.4 7.1 10.7

Manual Integrations

APPROVED

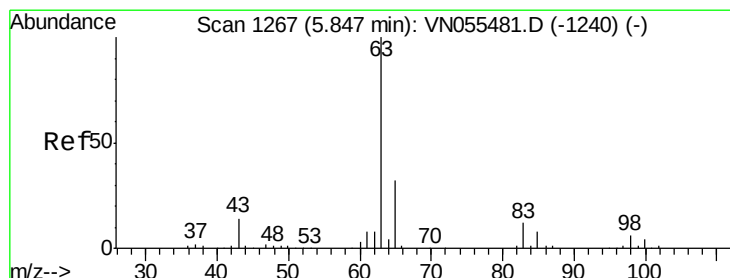
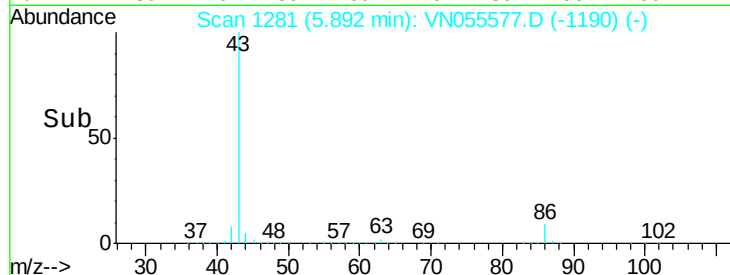
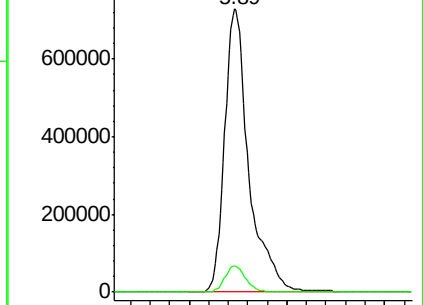
MMDadoda

5/14/2019 9:42:45 AM



Abundance Ion 43.00 (42.70 to 43.70): VN0

Ion 86.00 (85.70 to 86.70): VN0



#24

1,1-Dichloroethane

Concen: 18.881 ug/l

RT: 5.84 min Scan# 1266

Delta R.T. -0.00 min

Lab File: VN055577.D

Acq: 13 May 2019 15:28

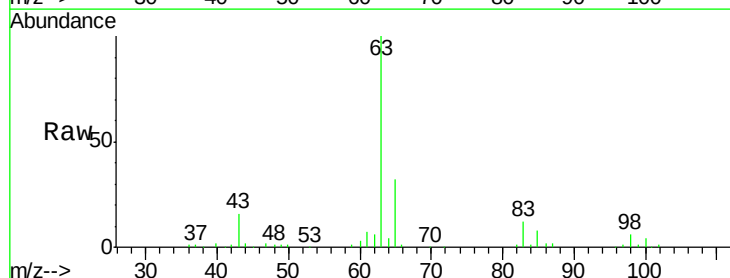
Tgt Ion: 63 Resp: 375194

Ion Ratio Lower Upper

63 100

98 5.8 3.0 9.0

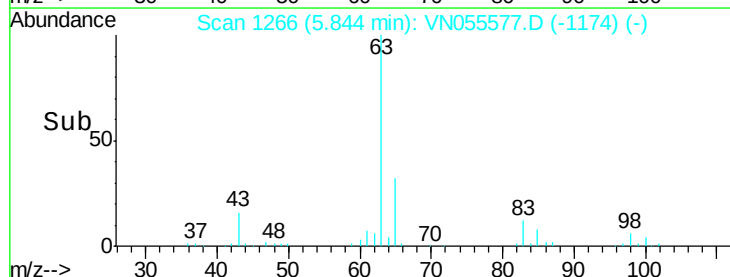
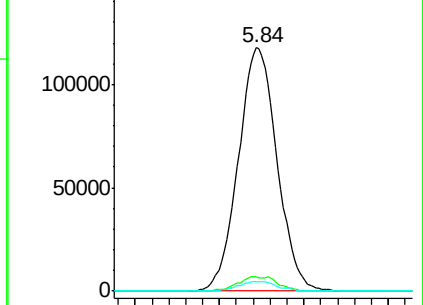
100 3.9 1.9 5.7

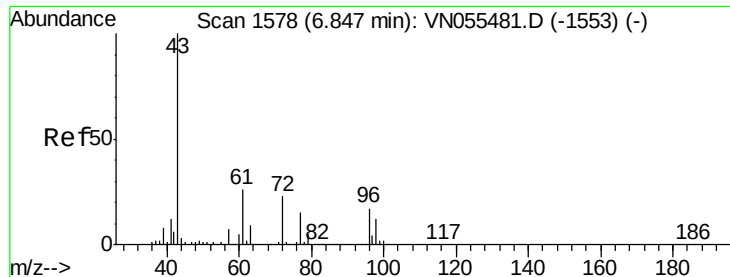


Abundance Ion 62.90 (62.60 to 63.60): VN0

Ion 97.90 (97.60 to 98.60): VN0

Ion 99.90 (99.60 to 100.60): VN0





#25

2-Butanone

Concen: 72.858 ug/l

RT: 6.84 min Scan# 1575

Delta R.T. -0.01 min

Lab File: VN055577.D

Acq: 13 May 2019 15:28

Instrument :

MSVOA_N

ClientSampleId :

VN0513WBSD01

Tot Ion: 43 Resp: 567725

Ion Ratio Lower Upper

43 100

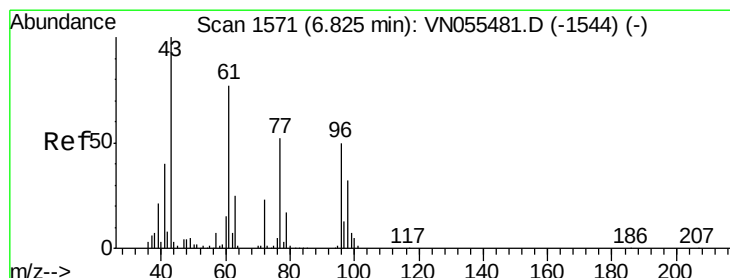
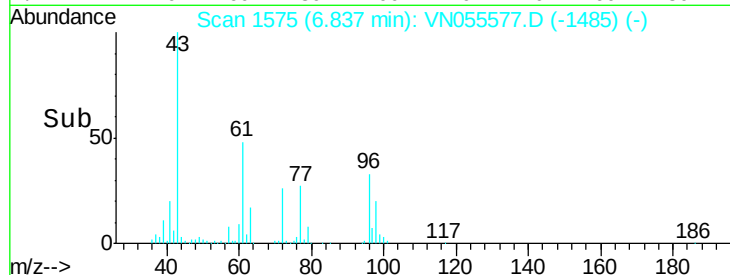
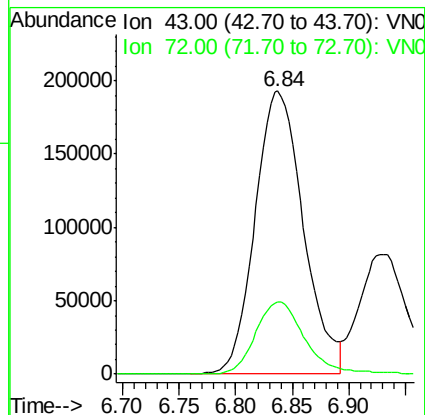
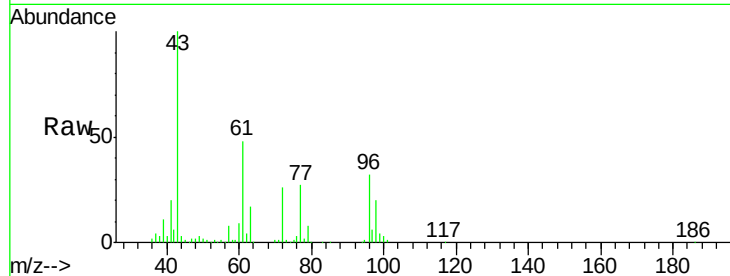
72 25.6 18.6 27.8

Manual Integrations

APPROVED

MMDadoda

5/14/2019 9:42:45 AM



#26

2,2-Dichloropropane

Concen: 18.765 ug/l

RT: 6.82 min Scan# 1570

Delta R.T. -0.00 min

Lab File: VN055577.D

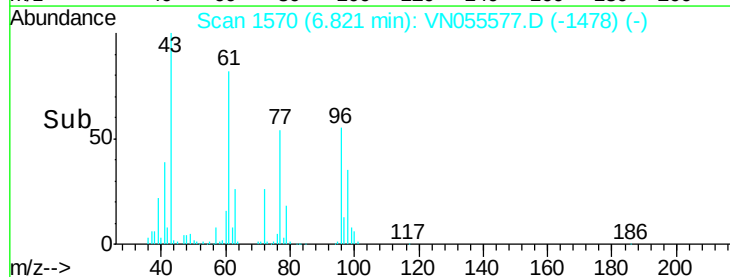
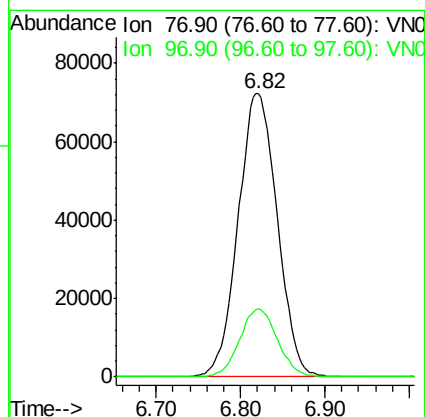
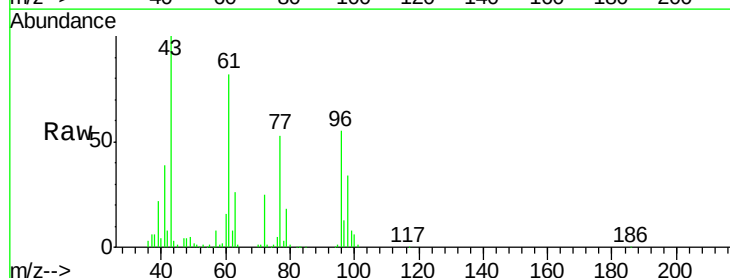
Acq: 13 May 2019 15:28

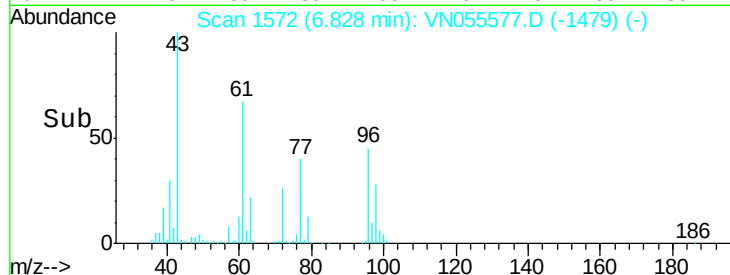
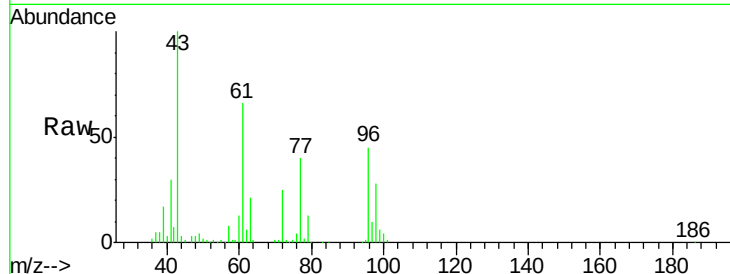
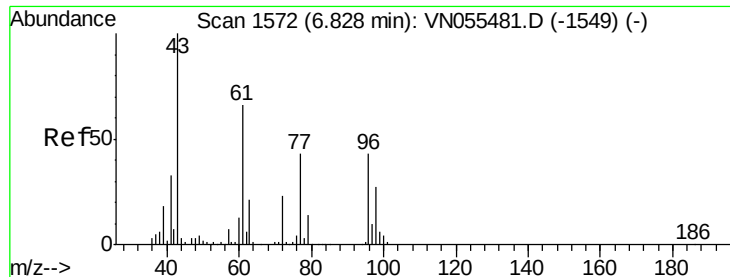
Tgt Ion: 77 Resp: 232454

Ion Ratio Lower Upper

77 100

97 23.3 11.5 34.5





#27

cis-1,2-Dichloroethene

Concen: 19.990 ug/l

RT: 6.83 min Scan# 1572

Delta R.T. -0.00 min

Lab File: VN055577.D

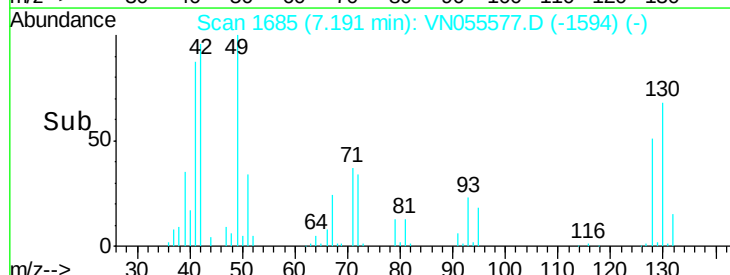
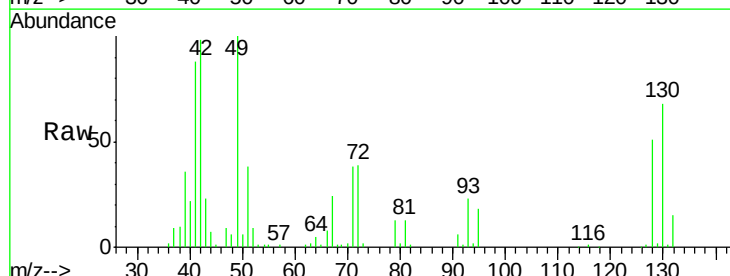
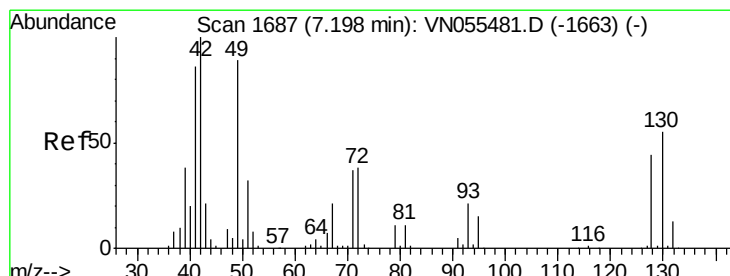
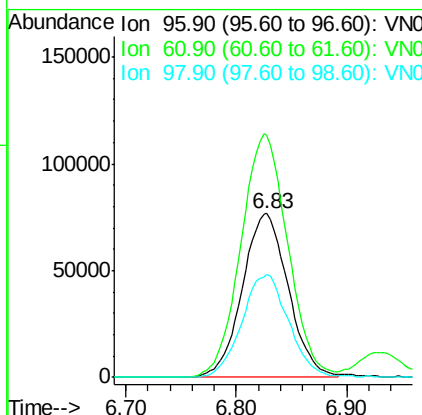
Acq: 13 May 2019 15:28

Tot Ion	Ratio	Resp	Lower	Upper
96	100	221497		
61	151.5	0.0	310.8	
98	63.9	0.0	129.4	

Instrument :
MSVOA_N
ClientSampleId :
VN0513WBSD01

Manual Integrations
APPROVED

MMDadoda
5/14/2019 9:42:45 AM



#28

Bromochloromethane

Concen: 18.143 ug/l

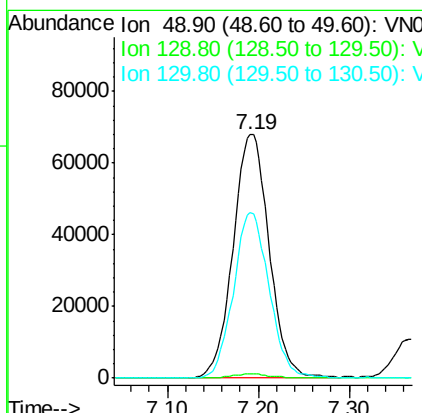
RT: 7.19 min Scan# 1685

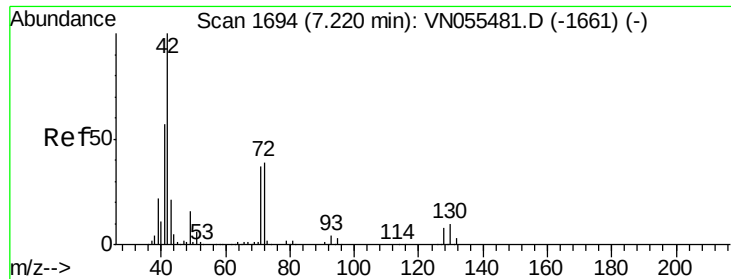
Delta R.T. -0.01 min

Lab File: VN055577.D

Acq: 13 May 2019 15:28

Tgt Ion	Ratio	Resp	Lower	Upper
49	100	187232		
129	1.7	0.0	3.2	
130	66.8	49.5	74.3	





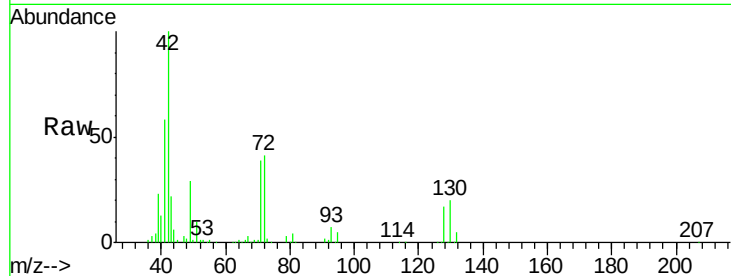
#29
Tetrahydrofuran
Concen: 75.545 ug/l
RT: 7.21 min Scan# 1691
Delta R.T. -0.01 min
Lab File: VN055577.D
Acq: 13 May 2019 15:28

Instrument :
MSVOA_N
ClientSampleId :
VN0513WBSD01

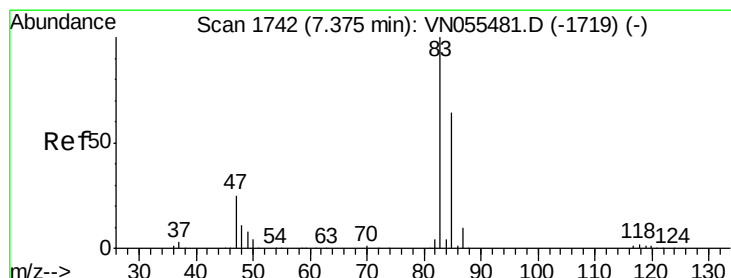
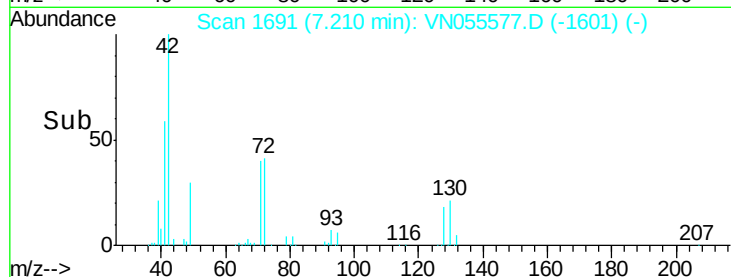
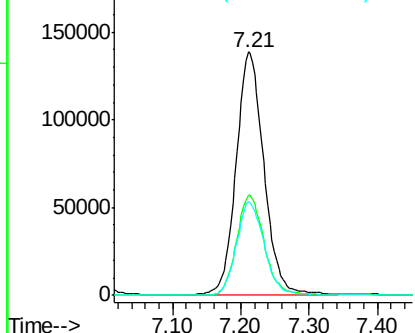
Tot Ion	Ratio	Lower	Upper
42	100		
72	41.1	31.0	46.6
71	38.6	29.4	44.2

Manual Integrations
APPROVED

MMDadoda
5/14/2019 9:42:45 AM

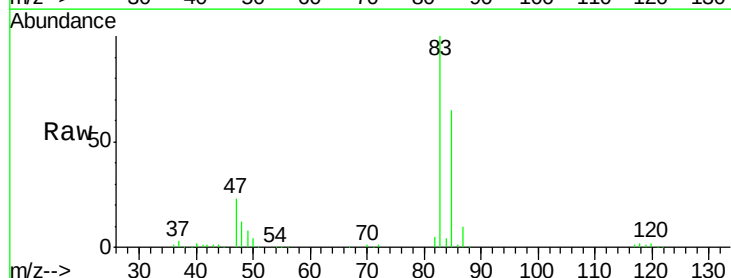


Abundance Ion 42.00 (41.70 to 42.70): VN0
Ion 72.00 (71.70 to 72.70): VN0
Ion 71.00 (70.70 to 71.70): VN0

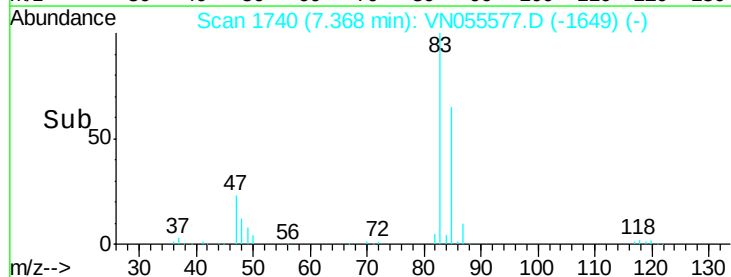
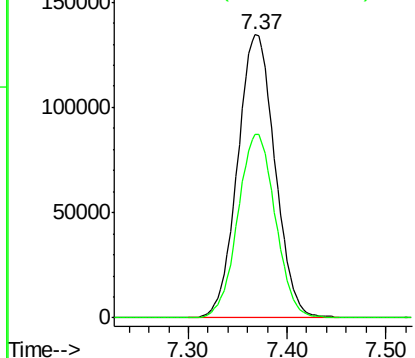


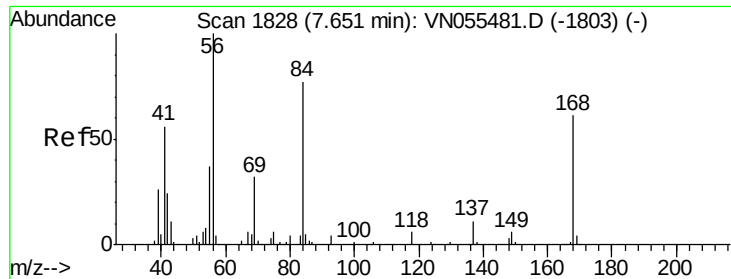
#30
Chloroform
Concen: 19.196 ug/l
RT: 7.37 min Scan# 1740
Delta R.T. -0.01 min
Lab File: VN055577.D
Acq: 13 May 2019 15:28

Tgt Ion	Ratio	Lower	Upper
83	100		
85	65.1	51.3	76.9



Abundance Ion 82.90 (82.60 to 83.60): VN0
Ion 84.90 (84.60 to 85.60): VN0





#31

Cyclohexane

Concen: 18.466 ug/l

RT: 7.65 min Scan# 1828

Delta R.T. -0.00 min

Lab File: VN055577.D

Acq: 13 May 2019 15:28

Instrument :

MSVOA_N

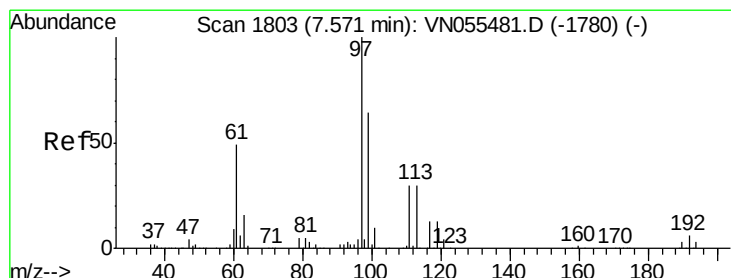
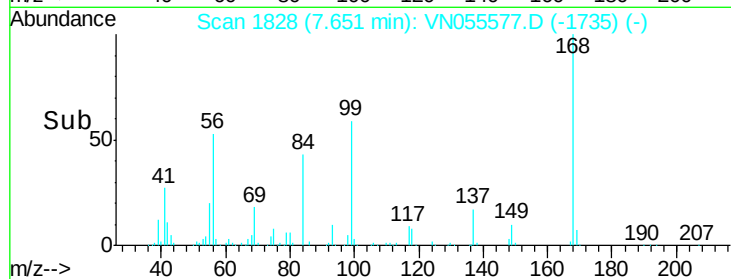
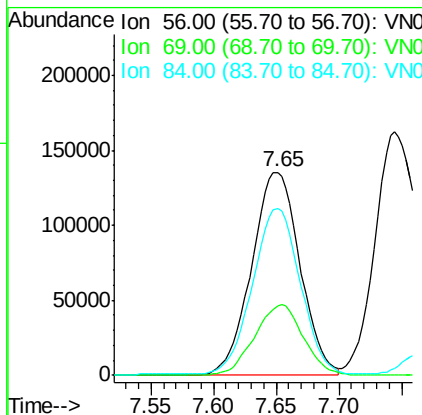
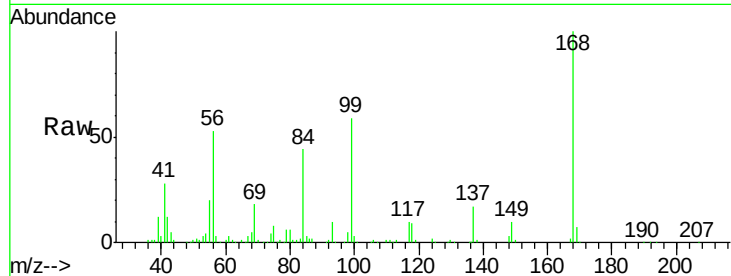
ClientSampleId :

VN0513WBSD01

Tot Ion:	56	Resp:	363070
Ion	Ratio	Lower	Upper
56	100		
69	34.0	26.0	39.0
84	81.7	61.9	92.9

Manual Integrations
APPROVED

MMDadoda
5/14/2019 9:42:45 AM



#32

1,1,1-Trichloroethane

Concen: 19.392 ug/l

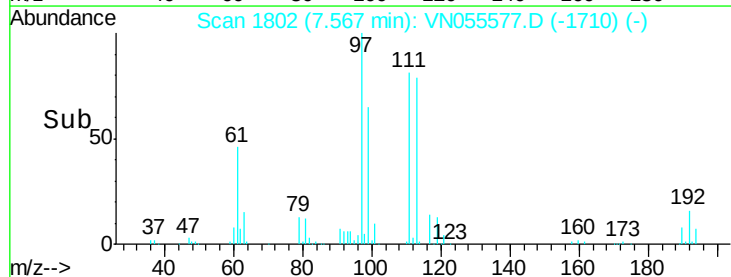
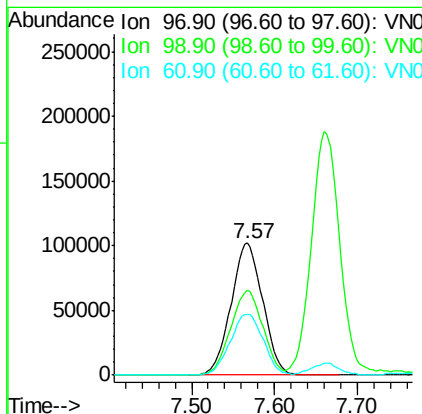
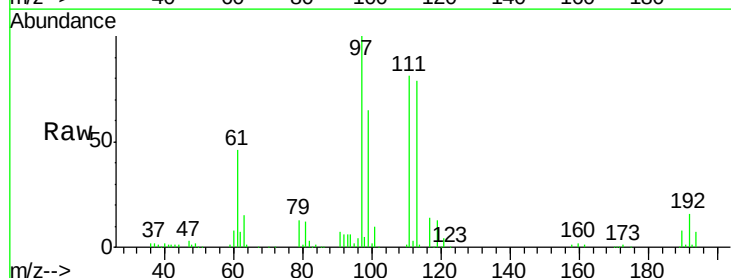
RT: 7.57 min Scan# 1802

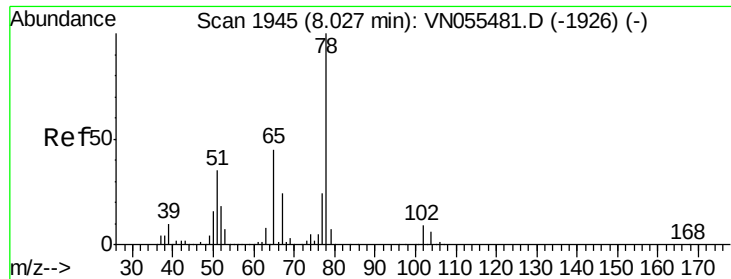
Delta R.T. -0.00 min

Lab File: VN055577.D

Acq: 13 May 2019 15:28

Tgt Ion:	97	Resp:	271272
Ion	Ratio	Lower	Upper
97	100		
99	65.2	51.2	76.8
61	48.0	39.2	58.8





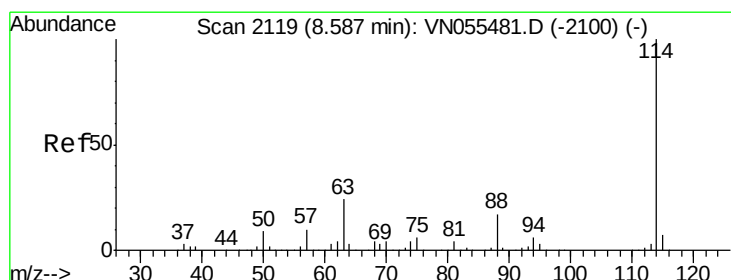
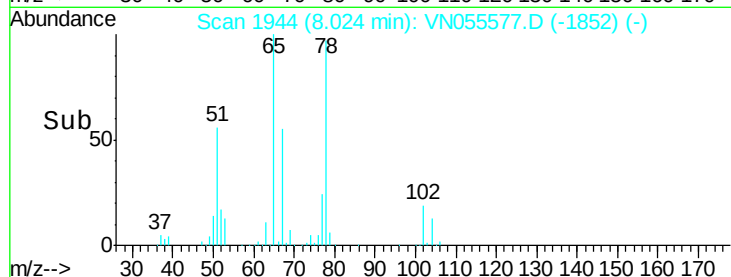
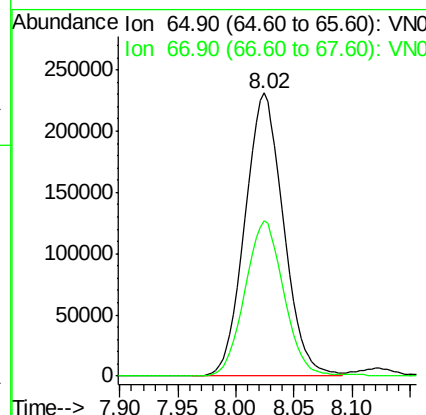
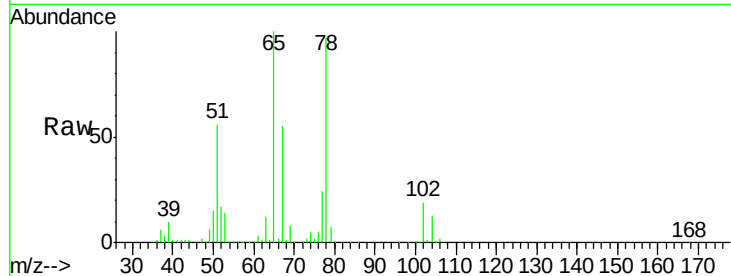
#33
 1,2-Dichloroethane-d4
 Concen: 43.984 ug/l
 RT: 8.02 min Scan# 1944
 Delta R.T. -0.00 min
 Lab File: VN055577.D
 Acq: 13 May 2019 15:28

Instrument :
 MSVOA_N
 ClientSampleId :
 VN0513WBSD01

Tot Ion	Ratio	Resp	Lower	Upper
65	100			
67	55.2	0.0	109.6	

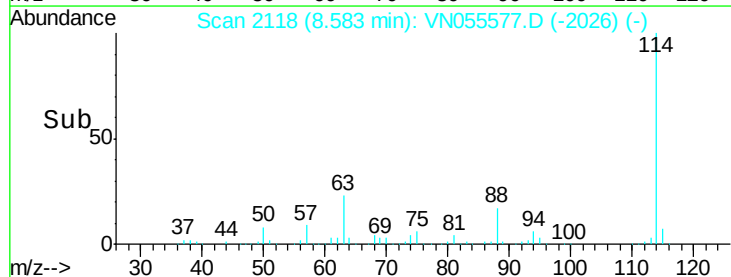
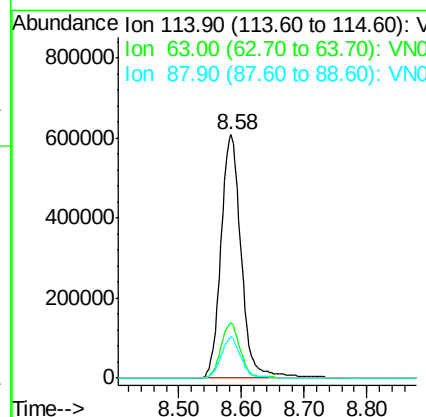
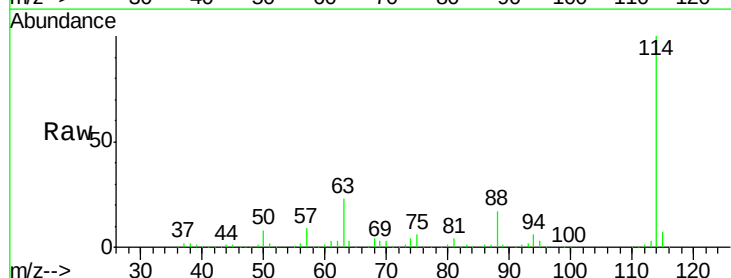
Manual Integrations
 APPROVED

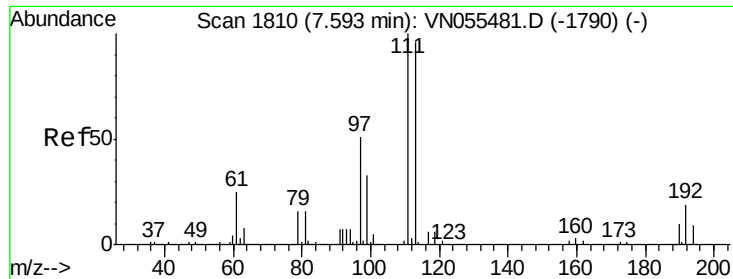
MMDadoda
 5/14/2019 9:42:45 AM



#34
 1,4-Difluorobenzene
 Concen: 50.000 ug/l
 RT: 8.58 min Scan# 2118
 Delta R.T. -0.00 min
 Lab File: VN055577.D
 Acq: 13 May 2019 15:28

Tgt Ion	Ratio	Resp	Lower	Upper
114	100			
63	22.6	0.0	47.4	
88	16.8	0.0	34.0	





#35

Dibromofluoromethane

Concen: 49.326 ug/l

RT: 7.59 min Scan# 1808

Delta R.T. -0.01 min

Lab File: VN055577.D

Acq: 13 May 2019 15:28

Instrument :

MSVOA_N

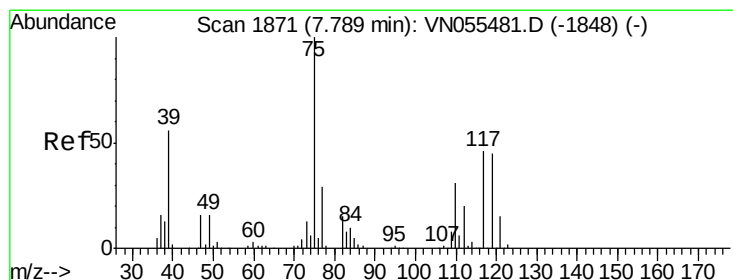
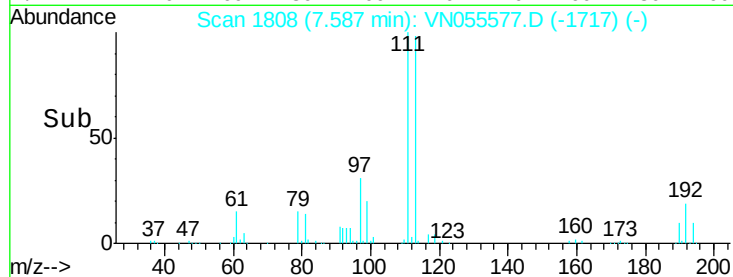
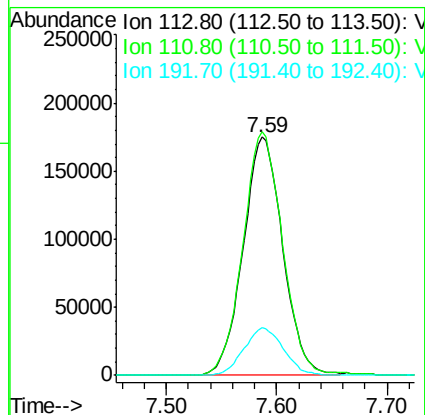
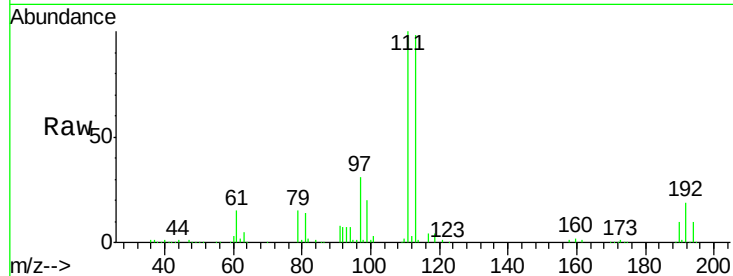
ClientSampleId :

VN0513WBSD01

Tot Ion:	113	Resp:	434515
Ion Ratio	Lower	Upper	
113	100		
111	103.0	82.9	124.3
192	20.1	15.6	23.4

Manual Integrations
APPROVED

MMDadoda
5/14/2019 9:42:45 AM



#36

1,1-Dichloropropene

Concen: 20.260 ug/l

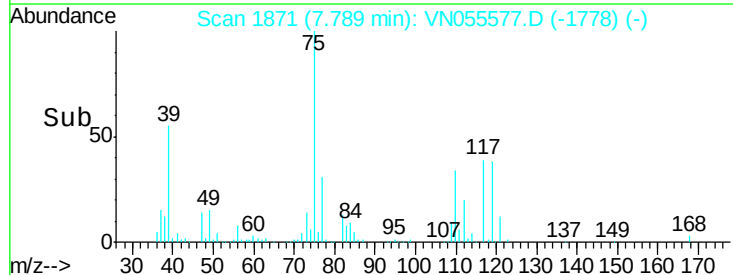
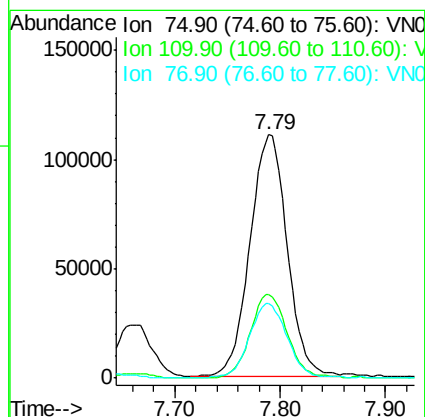
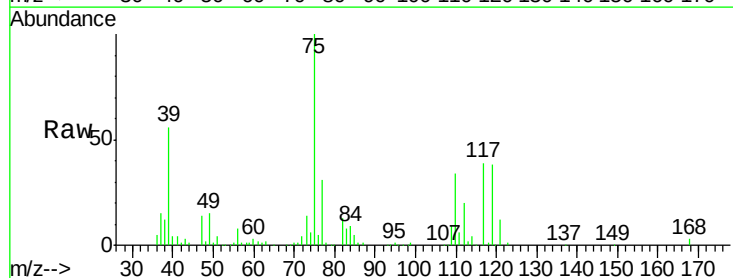
RT: 7.79 min Scan# 1871

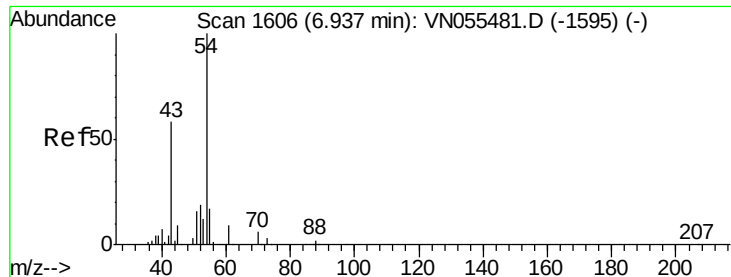
Delta R.T. -0.00 min

Lab File: VN055577.D

Acq: 13 May 2019 15:28

Tgt Ion:	75	Resp:	272571
Ion Ratio	Lower	Upper	
75	100		
110	34.5	16.1	48.3
77	31.6	24.6	37.0





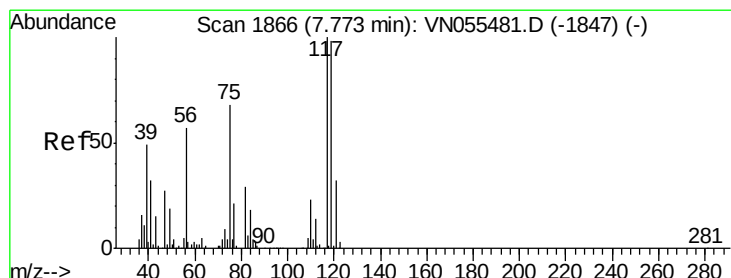
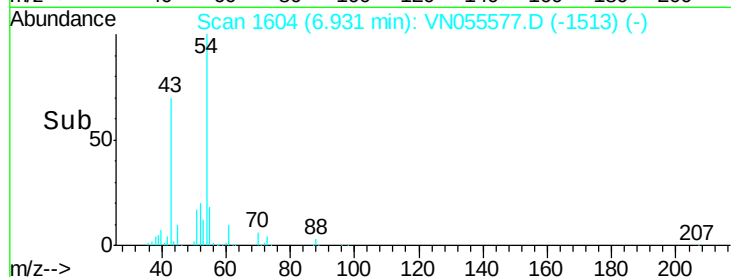
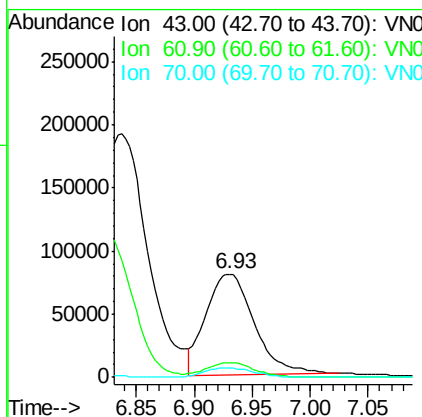
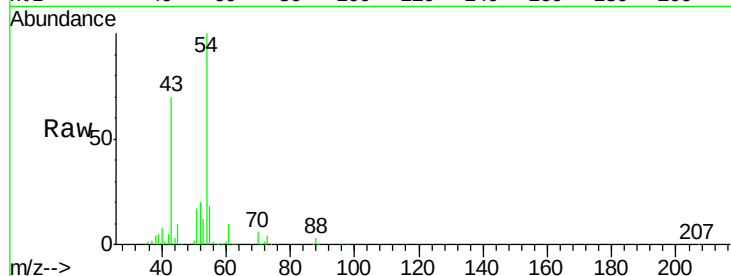
#37
Ethyl Acetate
Concen: 15.761 ug/l
RT: 6.93 min Scan# 1604
Delta R.T. -0.01 min
Lab File: VN055577.D
Acq: 13 May 2019 15:28

Instrument :
MSVOA_N
ClientSampleId :
VN0513WBSD01

Tot Ion	Ratio	Resp	Lower	Upper
43	100	231301		
61	14.1	10.9	16.3	
70	9.2	7.0	10.6	

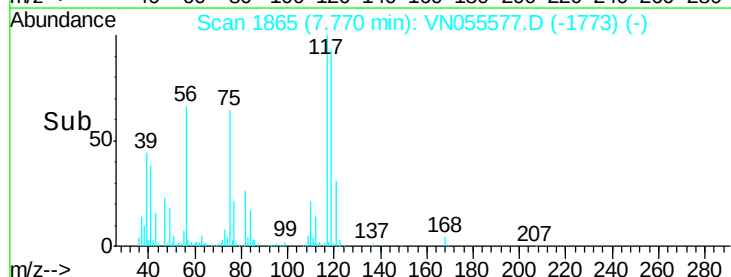
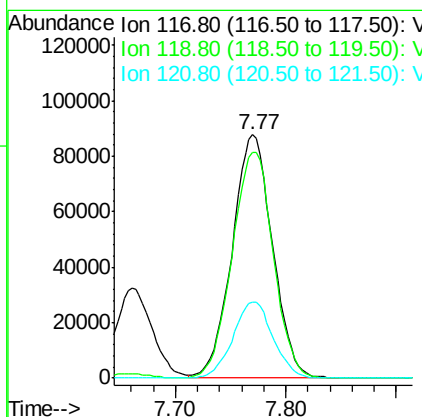
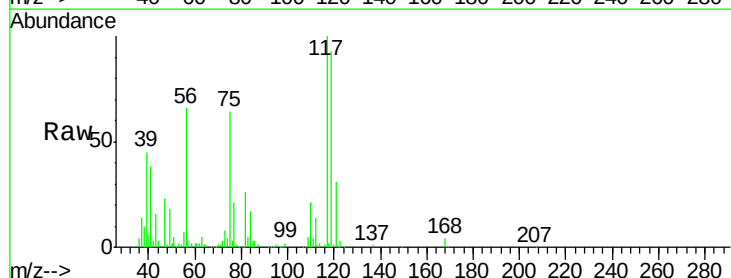
Manual Integrations
APPROVED

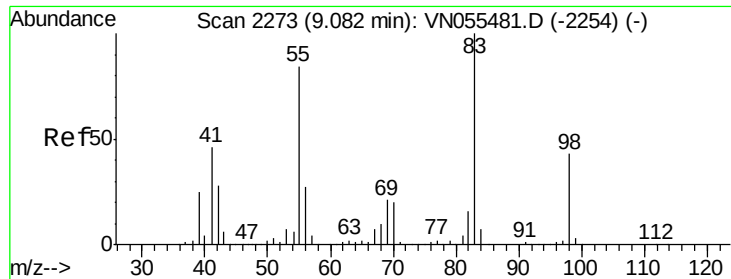
MMDadoda
5/14/2019 9:42:45 AM



#38
Carbon Tetrachloride
Concen: 19.474 ug/l
RT: 7.77 min Scan# 1865
Delta R.T. -0.00 min
Lab File: VN055577.D
Acq: 13 May 2019 15:28

Tgt Ion	Ratio	Resp	Lower	Upper
117	100	220612		
119	92.9	77.8	116.6	
121	31.4	25.2	37.8	





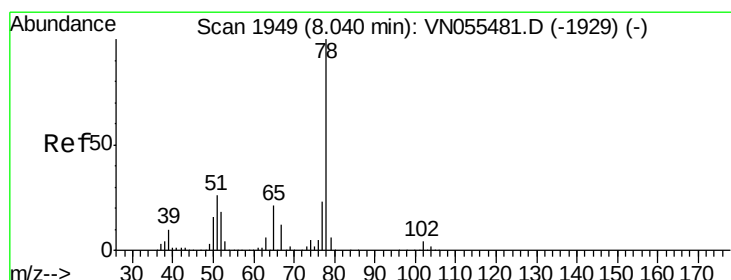
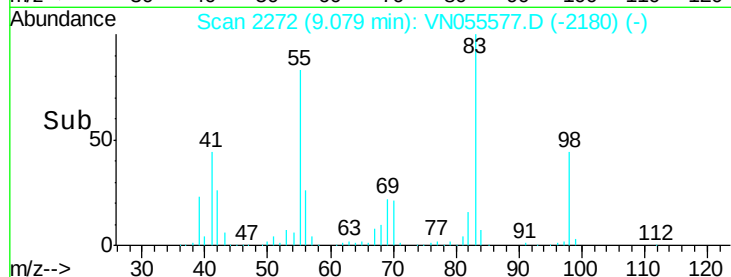
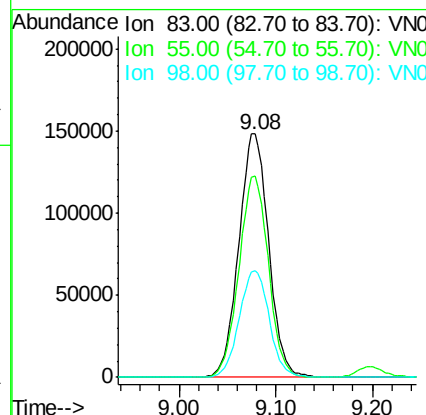
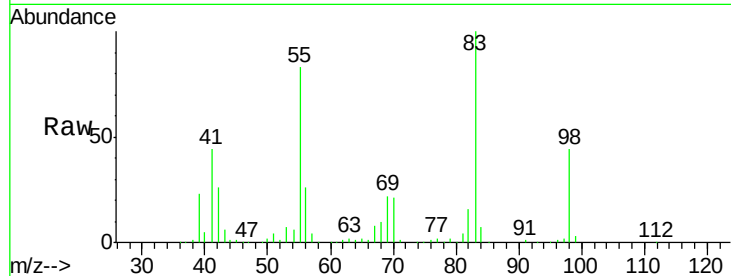
#39
Methylvlcyclohexane
Concen: 19.402 ug/l
RT: 9.08 min Scan# 2272
Delta R.T. -0.00 min
Lab File: VN055577.D
Acq: 13 May 2019 15:28

Instrument :
MSVOA_N
ClientSampleId :
VN0513WBSD01

Tot Ion	Ratio	Resp	Lower	Upper
83	100			
55	82.6	67.0	100.4	
98	44.0	34.2	51.4	

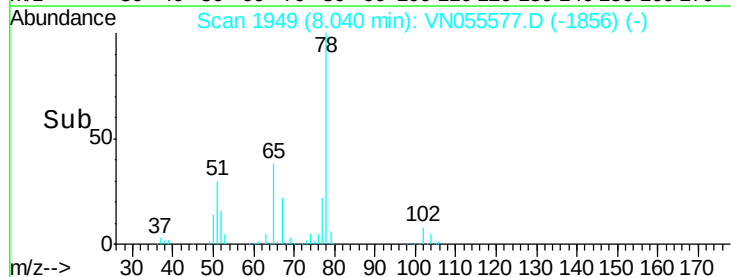
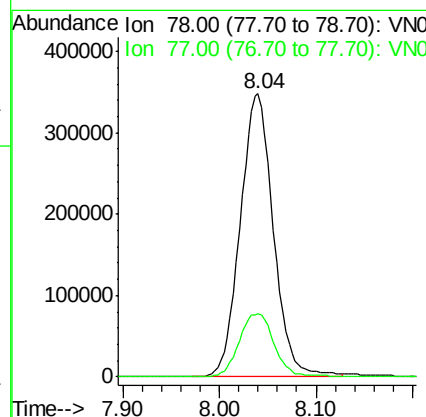
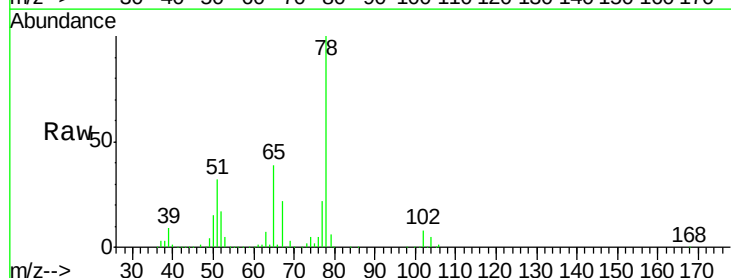
Manual Integrations
APPROVED

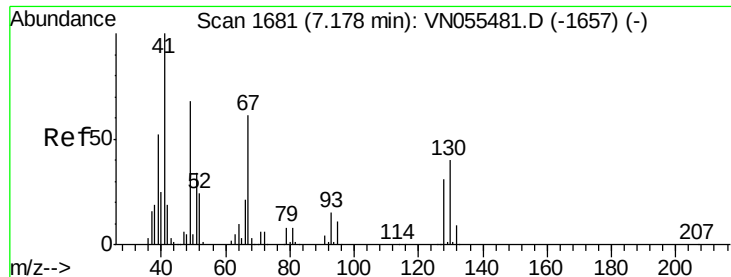
MMDadoda
5/14/2019 9:42:45 AM



#40
Benzene
Concen: 19.833 ug/l
RT: 8.04 min Scan# 1949
Delta R.T. -0.00 min
Lab File: VN055577.D
Acq: 13 May 2019 15:28

Tgt Ion	Ratio	Resp	Lower	Upper
78	100			
77	22.3	18.6	27.8	





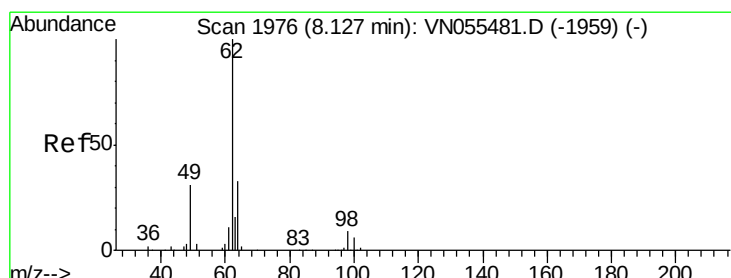
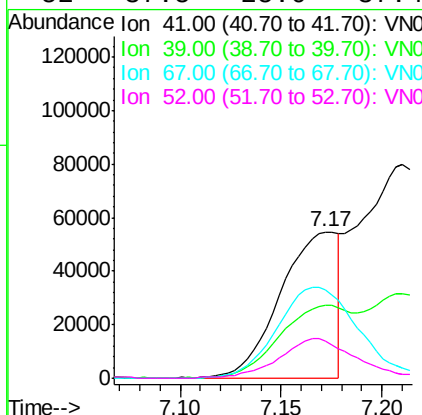
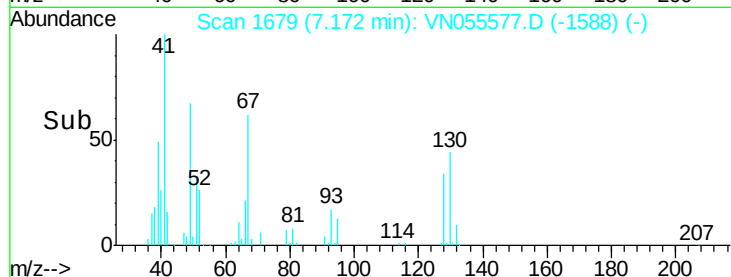
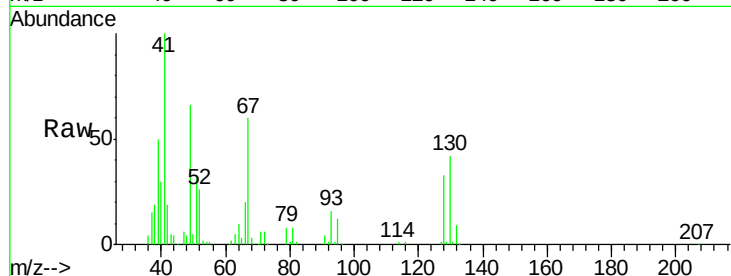
#41
Methacrylonitrile
Concen: 15.776 ug/l
RT: 7.17 min Scan# 1679
Delta R.T. -0.01 min
Lab File: VN055577.D
Acq: 13 May 2019 15:28

Instrument :
MSVOA_N
ClientSampleId :
VN0513WBSD01

Tot Ion	Ion	Ratio	Resp	Lower	Upper
41	100		107458		
39	64.4	44.7	67.1		
67	91.1	61.4	92.0		
52	37.5	25.0	37.4		

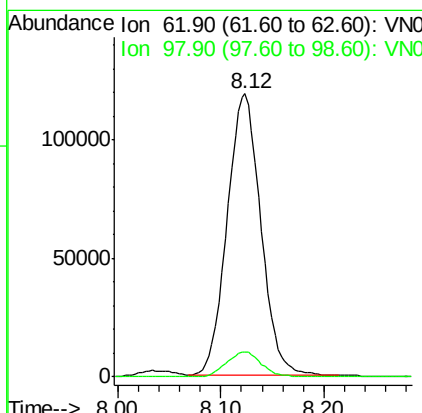
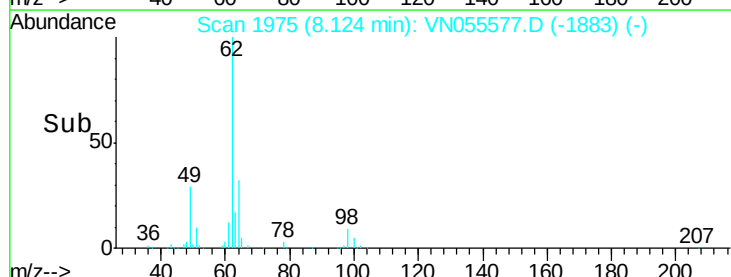
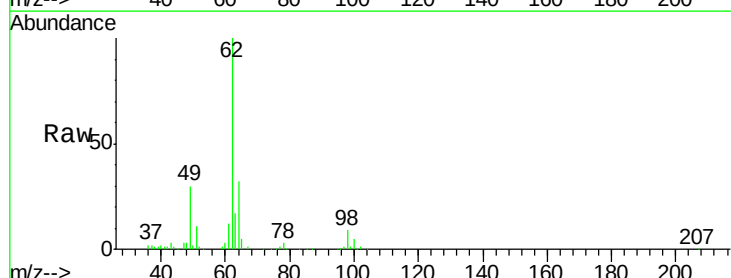
Manual Integrations
APPROVED

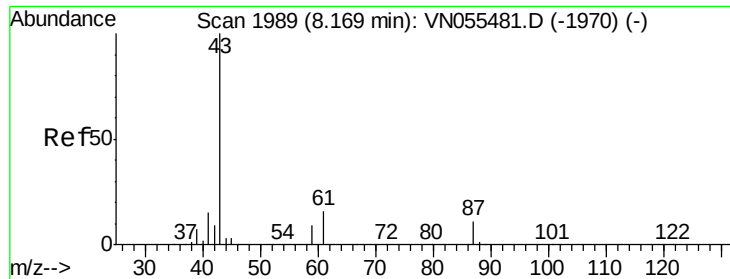
MMDadoda
5/14/2019 9:42:45 AM



#42
1,2-Dichloroethane
Concen: 18.402 ug/l
RT: 8.12 min Scan# 1975
Delta R.T. -0.00 min
Lab File: VN055577.D
Acq: 13 May 2019 15:28

Tgt Ion	Ion	Ratio	Resp	Lower	Upper
62	100		269950		
98	9.1	0.0	17.4		





#43

Isopropyl Acetate

Concen: 17.466 ug/l

RT: 8.16 min Scan# 1987

Delta R.T. -0.01 min

Lab File: VN055577.D

Acq: 13 May 2019 15:28

Instrument :

MSVOA_N

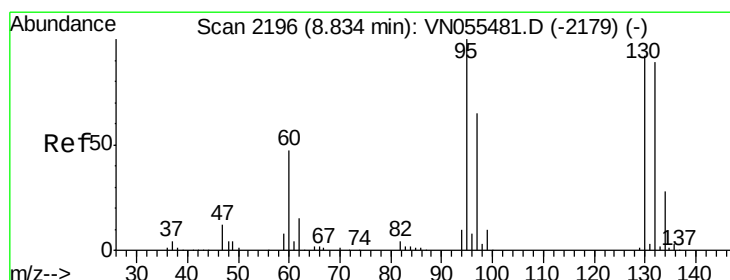
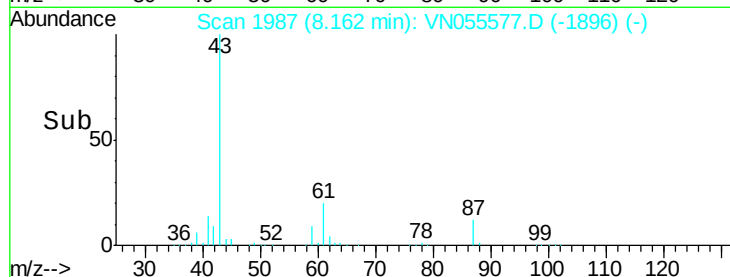
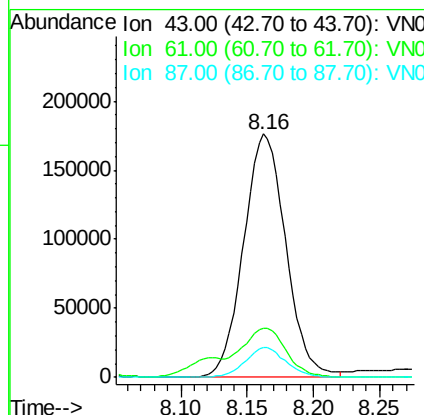
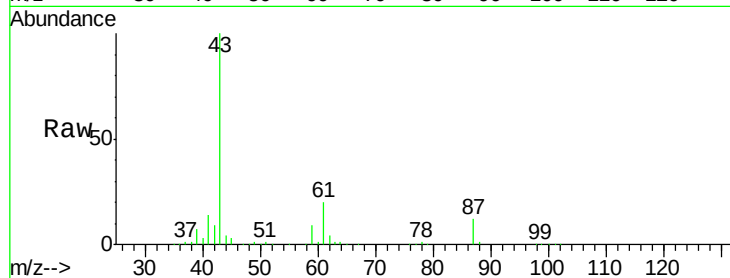
ClientSampleId :

VN0513WBSD01

Tot Ion:	43	Resp:	389420
Ion	Ratio	Lower	Upper
43	100		
61	21.3	15.1	22.7
87	12.0	9.0	13.6

Manual Integrations
APPROVED

MMDadoda
5/14/2019 9:42:45 AM



#44

Trichloroethene

Concen: 21.051 ug/l

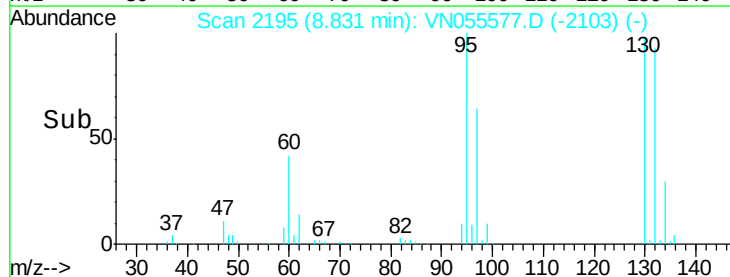
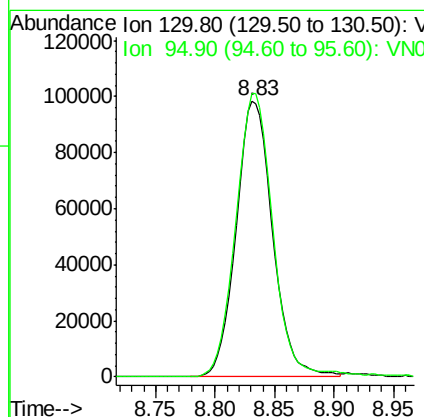
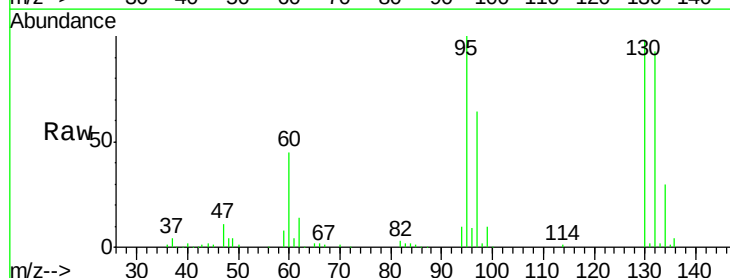
RT: 8.83 min Scan# 2195

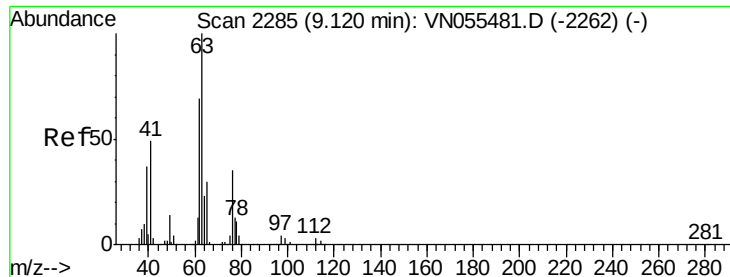
Delta R.T. -0.00 min

Lab File: VN055577.D

Acq: 13 May 2019 15:28

Tgt Ion:	130	Resp:	209139
Ion	Ratio	Lower	Upper
130	100		
95	102.6	0.0	216.8





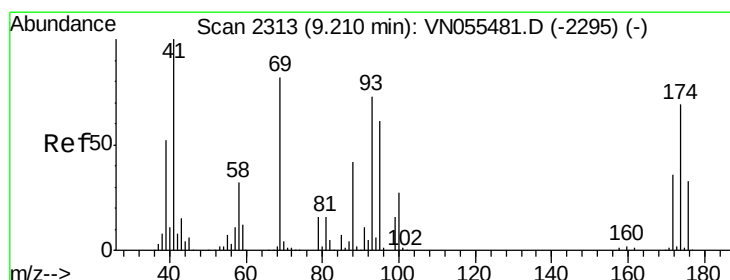
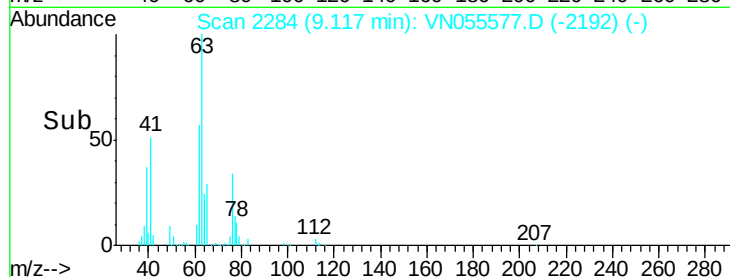
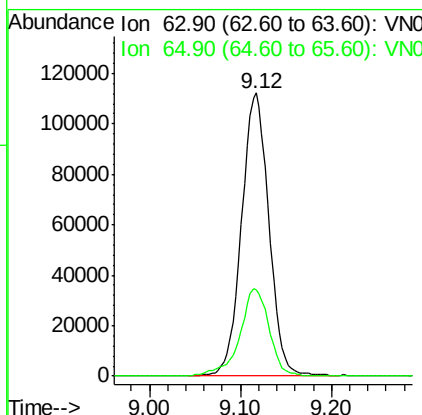
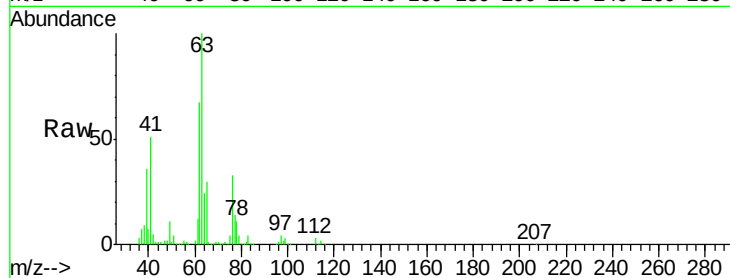
#45
 1,2-Dichloropropane
 Concen: 19.684 ug/l
 RT: 9.12 min Scan# 2284
 Delta R.T. -0.00 min
 Lab File: VN055577.D
 Acq: 13 May 2019 15:28

Instrument :
 MSVOA_N
 ClientSampleId :
 VN0513WBSD01

Tot Ion	Ratio	Lower	Upper
63	100		
65	30.4	24.1	36.1

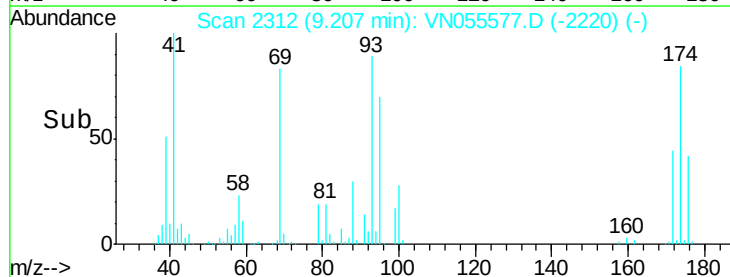
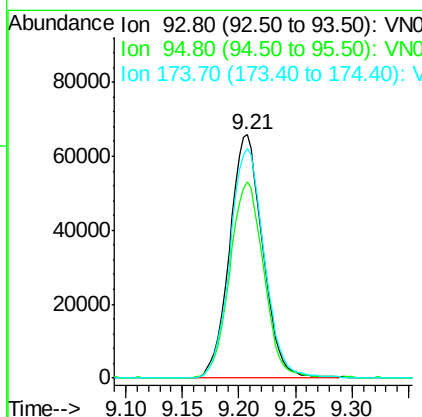
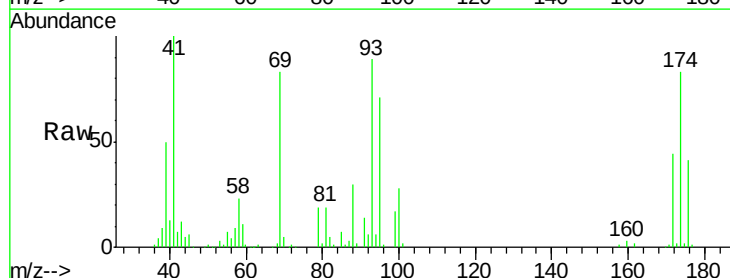
Manual Integrations
 APPROVED

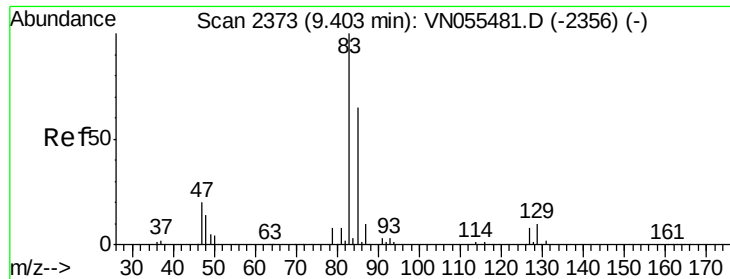
MMDadoda
 5/14/2019 9:42:45 AM



#46
 Dibromomethane
 Concen: 19.417 ug/l
 RT: 9.21 min Scan# 2312
 Delta R.T. -0.00 min
 Lab File: VN055577.D
 Acq: 13 May 2019 15:28

Tgt Ion	Ratio	Lower	Upper
93	100		
95	82.6	64.8	97.2
174	97.1	75.0	112.6





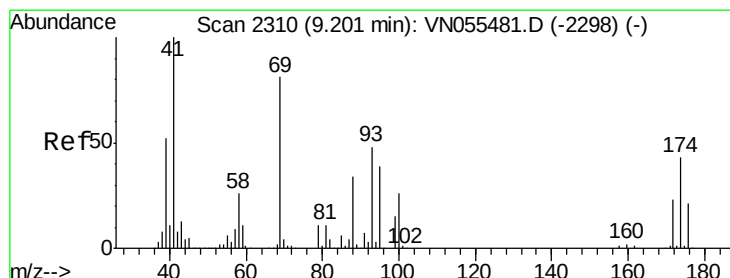
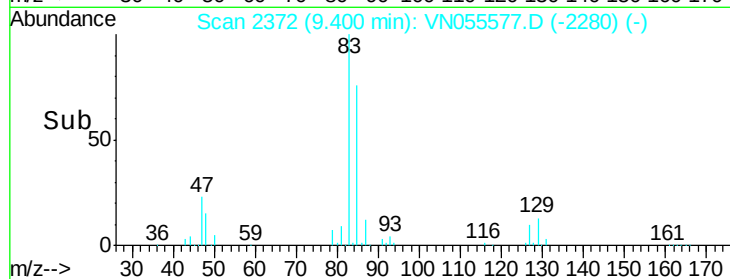
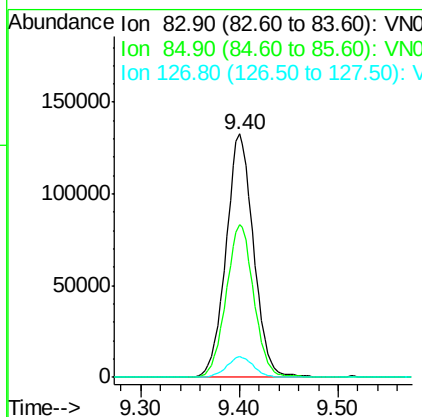
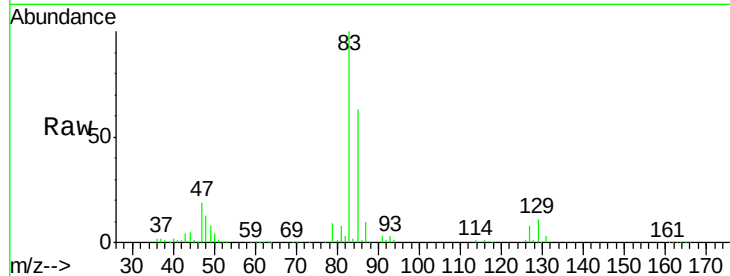
#47
Bromodichloromethane
Concen: 19.612 ug/l
RT: 9.40 min Scan# 2372
Delta R.T. -0.00 min
Lab File: VN055577.D
Acq: 13 May 2019 15:28

Instrument :
MSVOA_N
ClientSampled :
VN0513WBSD01

Tot Ion	Ratio	Resp	Lower	Upper
83	100	259815		
85	62.6		52.2	78.2
127	8.4		6.5	9.7

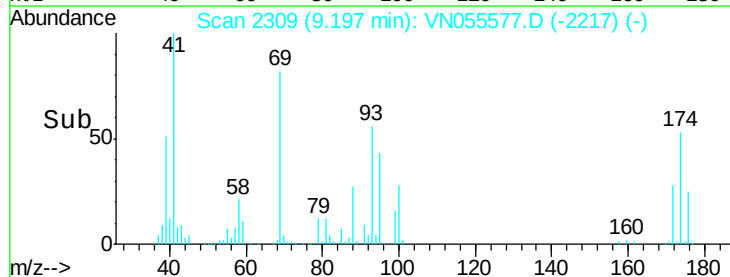
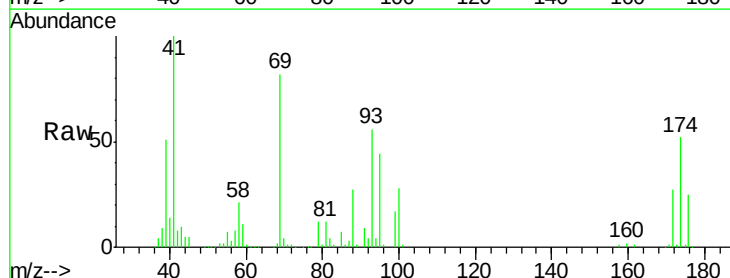
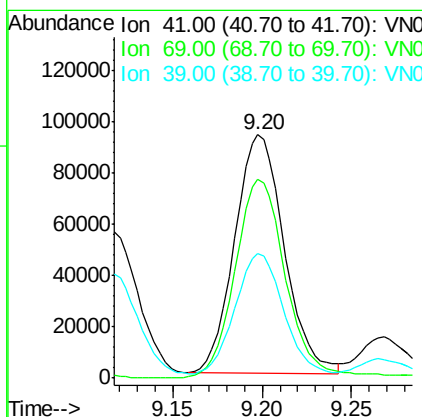
Manual Integrations
APPROVED

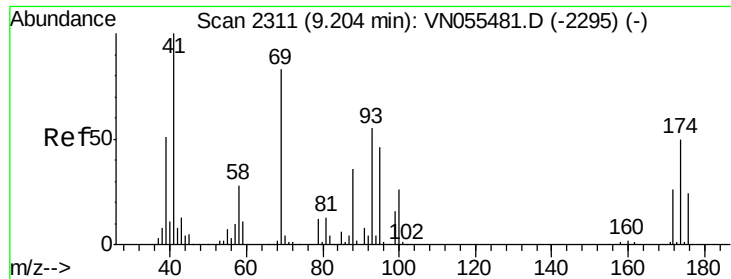
MMDadoda
5/14/2019 9:42:45 AM



#48
Methyl methacrylate
Concen: 16.762 ug/l
RT: 9.20 min Scan# 2309
Delta R.T. -0.00 min
Lab File: VN055577.D
Acq: 13 May 2019 15:28

Tgt Ion	Ratio	Resp	Lower	Upper
41	100	180064		
69	86.5		64.2	96.2
39	52.0		41.6	62.4





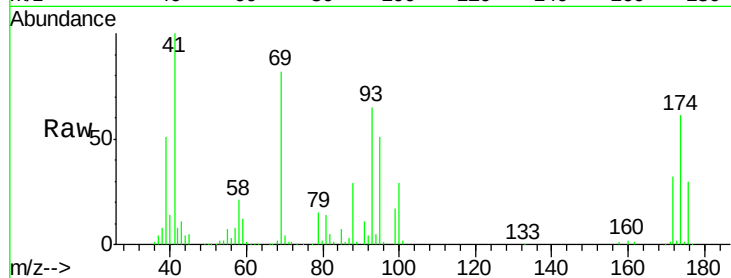
#49
1,4-Dioxane
Concen: 284.347 ug/l
RT: 9.20 min Scan# 2310
Delta R.T. -0.00 min
Lab File: VN055577.D
Acq: 13 May 2019 15:28

Instrument :
MSVOA_N
ClientSampleId :
VN0513WBSD01

Tot Ion	Ratio	Lower	Upper
88	100		
43	33.2	27.8	41.8
58	74.6	61.8	92.6

Manual Integrations
APPROVED

MMDadoda
5/14/2019 9:42:45 AM

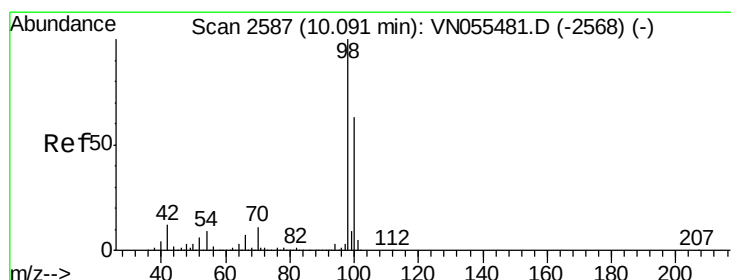
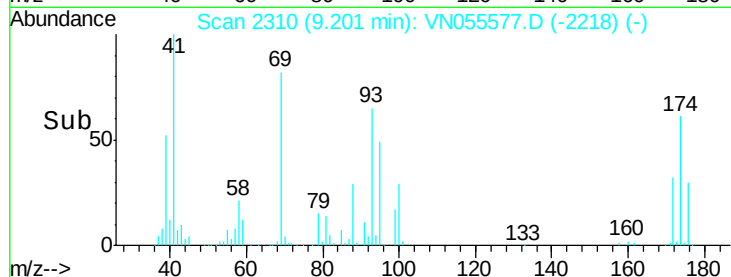
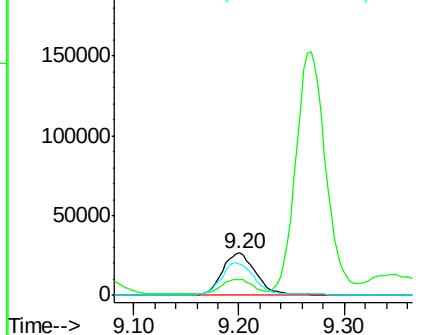


Abundance

Ion 88.00 (87.70 to 88.70): VN055577.D (-2218) (-)

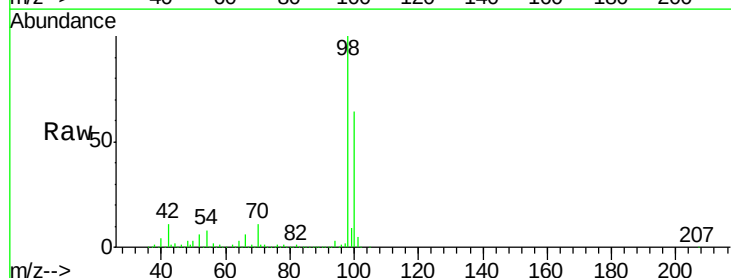
Ion 43.00 (42.70 to 43.70): VN055577.D (-2218) (-)

Ion 58.00 (57.70 to 58.70): VN055577.D (-2218) (-)



#50
Toluene-d8
Concen: 49.763 ug/l
RT: 10.09 min Scan# 2586
Delta R.T. -0.00 min
Lab File: VN055577.D
Acq: 13 May 2019 15:28

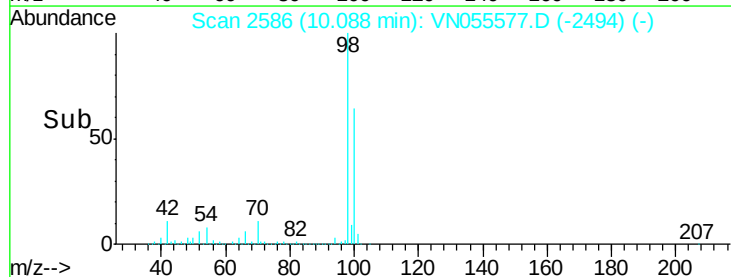
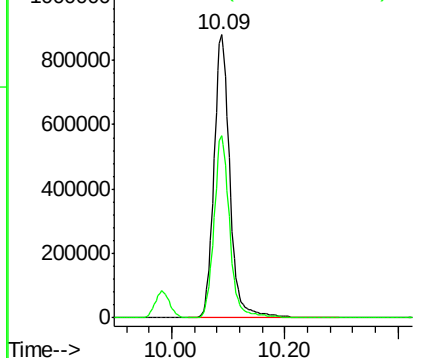
Tgt Ion	Ratio	Lower	Upper
98	100		
100	63.1	50.4	75.6

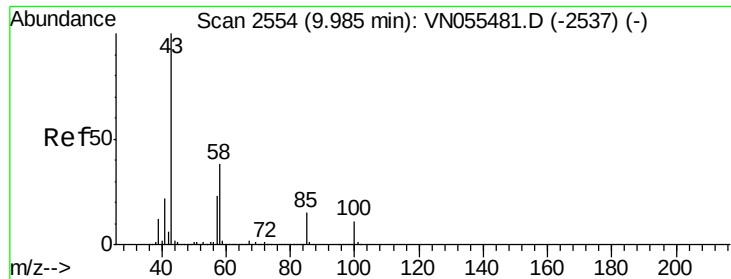


Abundance

Ion 98.00 (97.70 to 98.70): VN055577.D (-2494) (-)

Ion 100.00 (99.70 to 100.70): VN055577.D (-2494) (-)





#51

4-Methyl-2-Pentanone

Concen: 79.997 ug/l

RT: 9.98 min Scan# 2553

Delta R.T. -0.00 min

Lab File: VN055577.D

Acq: 13 May 2019 15:28

Instrument :

MSVOA_N

ClientSampleId :

VN0513WBSD01

Tot Ion: 43 Resp: 1173028

Ion Ratio Lower Upper

43 100

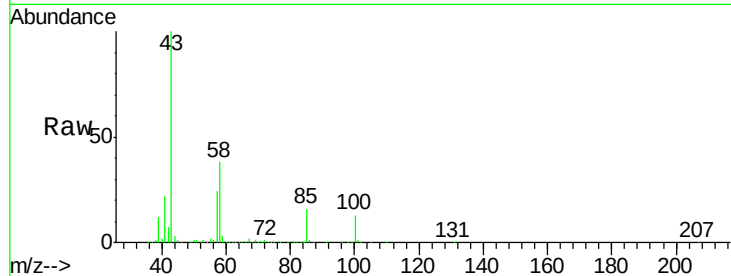
58 38.4 29.9 44.9

Manual Integrations

APPROVED

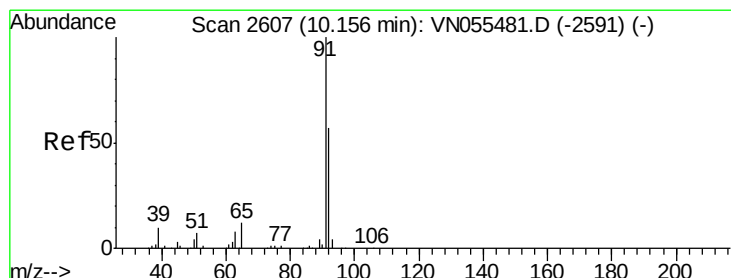
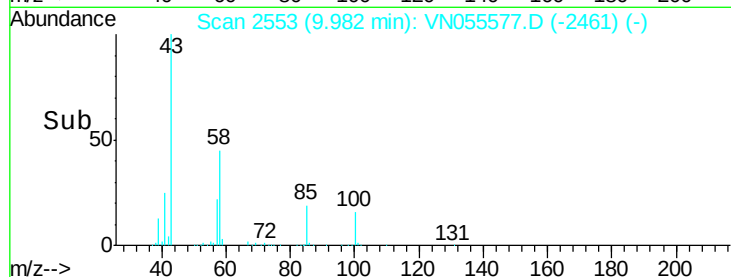
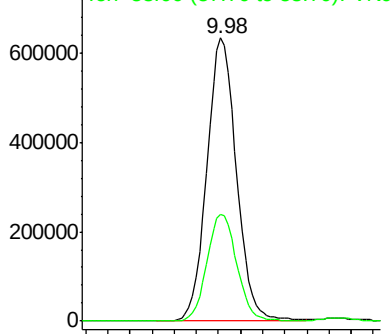
MMDadoda

5/14/2019 9:42:45 AM



Abundance Ion 43.00 (42.70 to 43.70): VN0

Ion 58.00 (57.70 to 58.70): VN0



#52

Toluene

Concen: 20.700 ug/l

RT: 10.15 min Scan# 2606

Delta R.T. -0.00 min

Lab File: VN055577.D

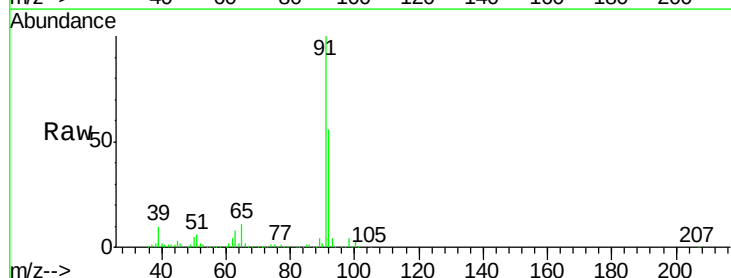
Acq: 13 May 2019 15:28

Tgt Ion: 92 Resp: 494125

Ion Ratio Lower Upper

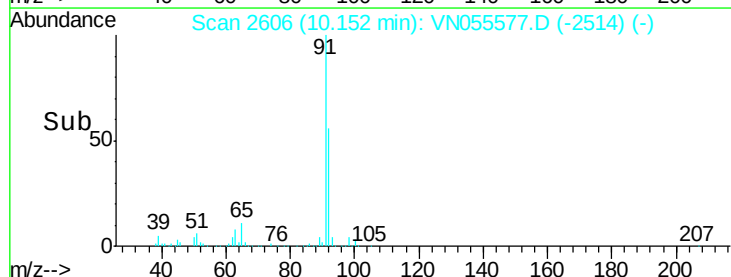
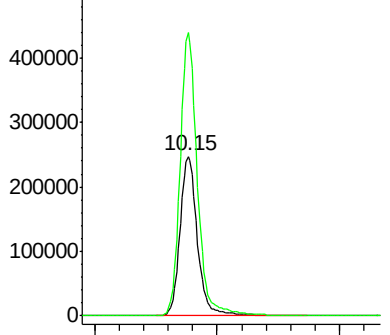
92 100

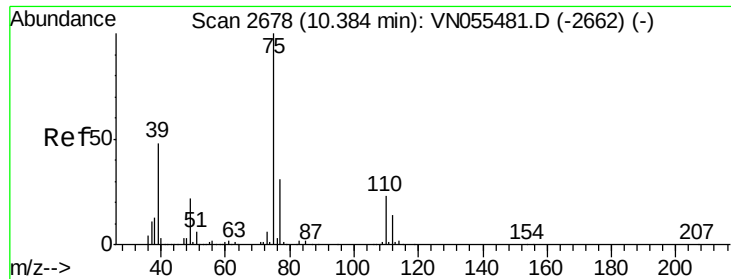
91 175.1 140.5 210.7



Abundance Ion 92.00 (91.70 to 92.70): VN0

Ion 91.00 (90.70 to 91.70): VN0





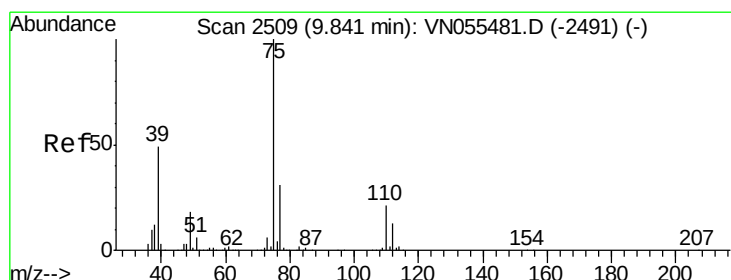
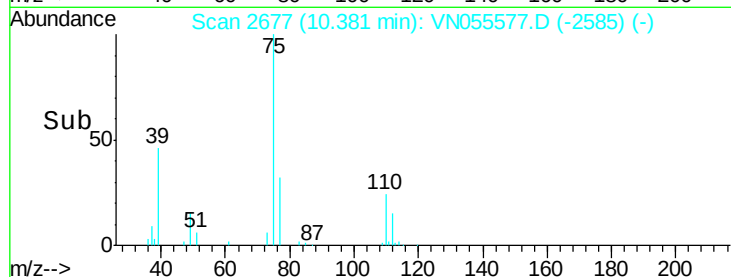
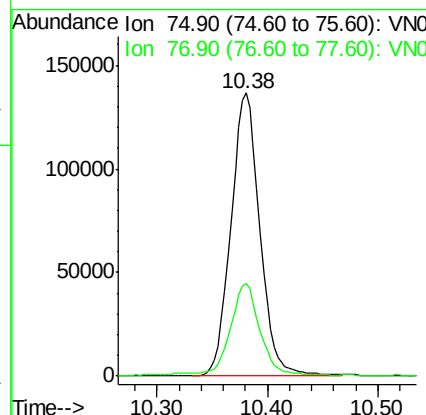
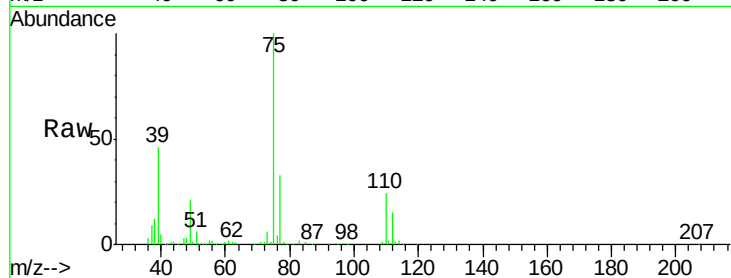
#53
t-1,3-Dichloropropene
Concen: 19.550 ug/l
RT: 10.38 min Scan# 2677
Delta R.T. -0.00 min
Lab File: VN055577.D
Acq: 13 May 2019 15:28

Instrument :
MSVOA_N
ClientSampleId :
VN0513WBSD01

Tot Ion: 75 Resp: 248743
Ion Ratio Lower Upper
75 100
77 32.3 25.1 37.7

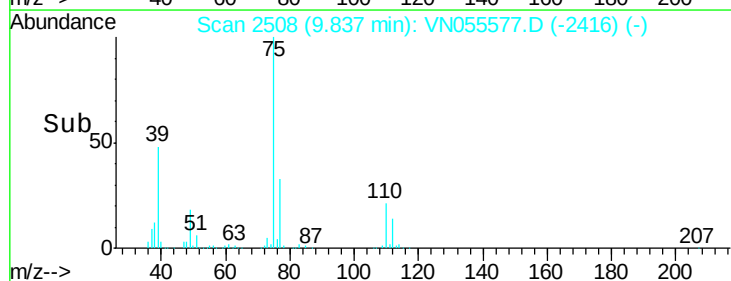
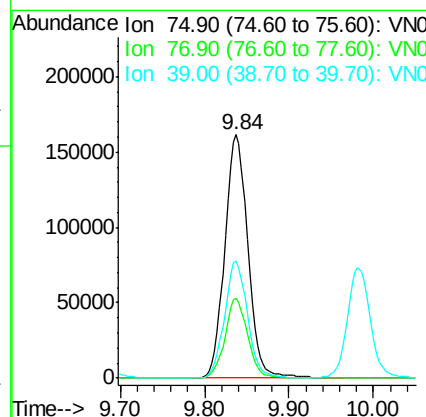
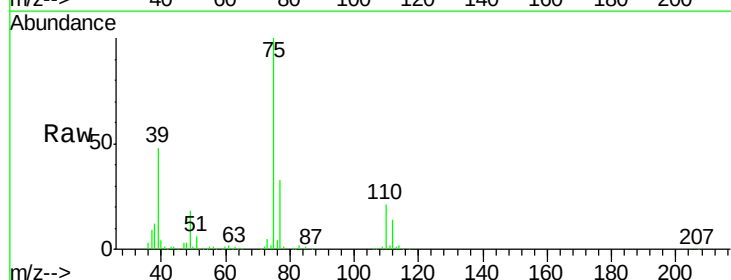
Manual Integrations
APPROVED

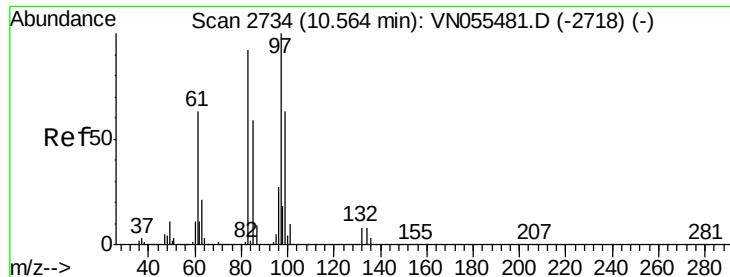
MMDadoda
5/14/2019 9:42:45 AM



#54
cis-1,3-Dichloropropene
Concen: 20.275 ug/l
RT: 9.84 min Scan# 2508
Delta R.T. -0.00 min
Lab File: VN055577.D
Acq: 13 May 2019 15:28

Tgt Ion: 75 Resp: 308257
Ion Ratio Lower Upper
75 100
77 33.0 24.4 36.6
39 48.1 39.5 59.3





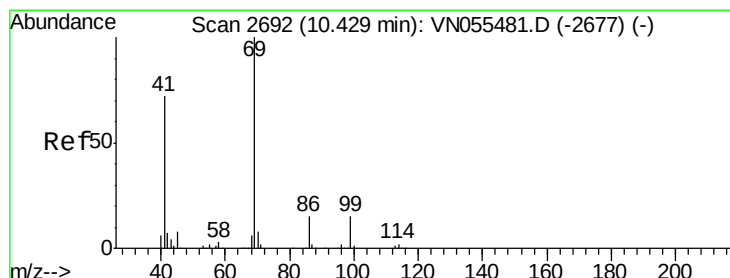
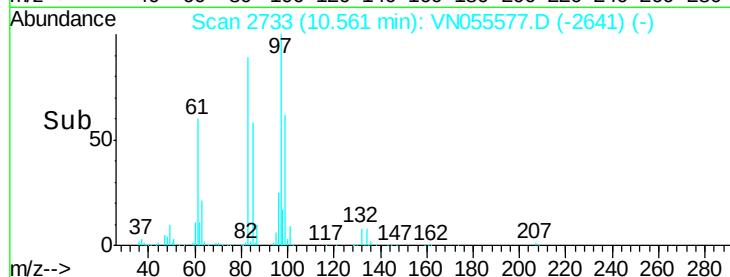
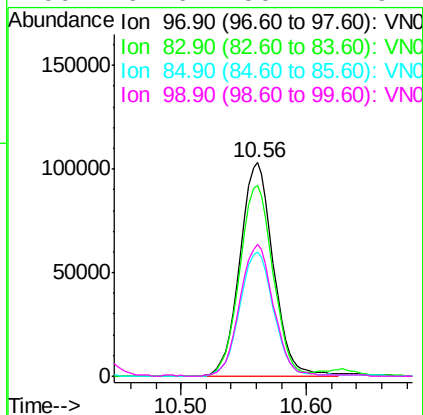
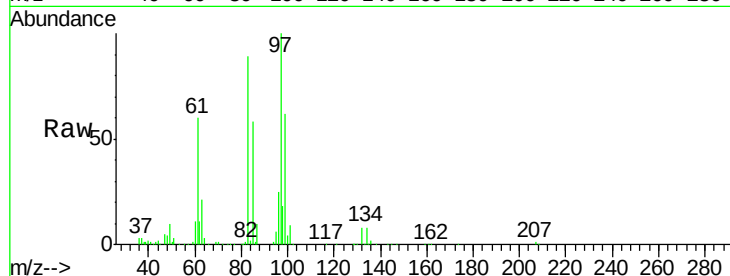
#55
 1,1,2-Trichloroethane
 Concen: 19.785 ug/l
 RT: 10.56 min Scan# 2733
 Delta R.T. -0.00 min
 Lab File: VN055577.D
 Acq: 13 May 2019 15:28

Instrument :
 MSVOA_N
 ClientSampleId :
 VN0513WBSD01

Tot Ion:	97	Resp:	191353
Ion	Ratio	Lower	Upper
97	100		
83	89.4	73.2	109.8
85	58.4	47.5	71.3
99	61.6	50.2	75.2

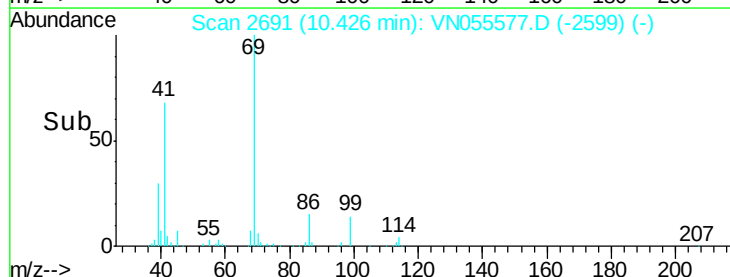
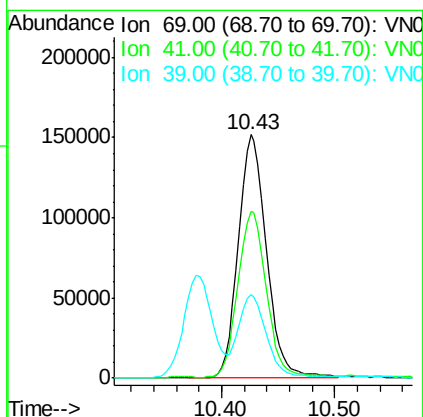
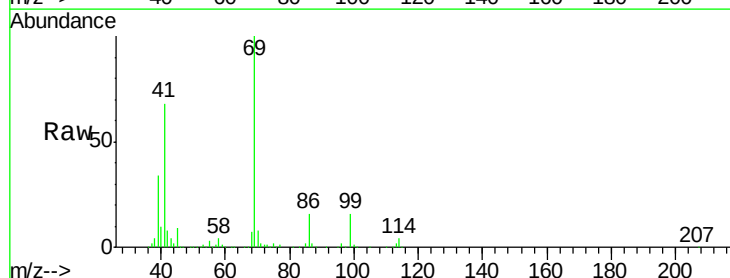
Manual Integrations
 APPROVED

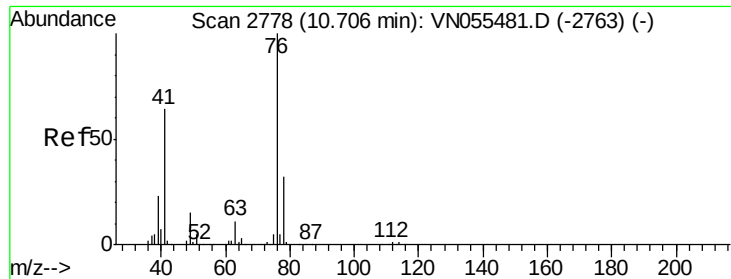
MMDadoda
 5/14/2019 9:42:45 AM



#56
 Ethyl methacrylate
 Concen: 18.447 ug/l
 RT: 10.43 min Scan# 2691
 Delta R.T. -0.00 min
 Lab File: VN055577.D
 Acq: 13 May 2019 15:28

Tgt Ion:	69	Resp:	265369
Ion	Ratio	Lower	Upper
69	100		
41	68.8	56.2	84.2
39	34.3	27.8	41.6





#57

1,3-Dichloropropane

Concen: 19.636 ug/l

RT: 10.71 min Scan# 2778

Delta R.T. -0.00 min

Lab File: VN055577.D

Acq: 13 May 2019 15:28

Instrument :

MSVOA_N

ClientSampleId :

VN0513WBSD01

Tot Ion: 76 Resp: 337154

Ion Ratio Lower Upper

76 100

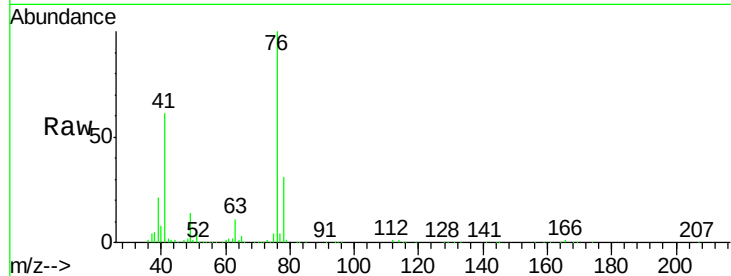
78 31.7 25.8 38.6

Manual Integrations

APPROVED

MMDadoda

5/14/2019 9:42:45 AM



Abundance Ion 75.90 (75.60 to 76.60): VN0

Ion 77.90 (77.60 to 78.60): VN0

10.71

200000

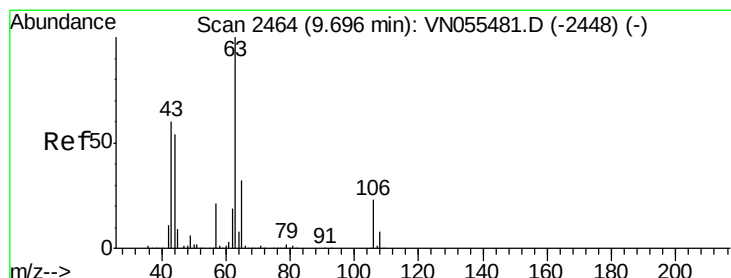
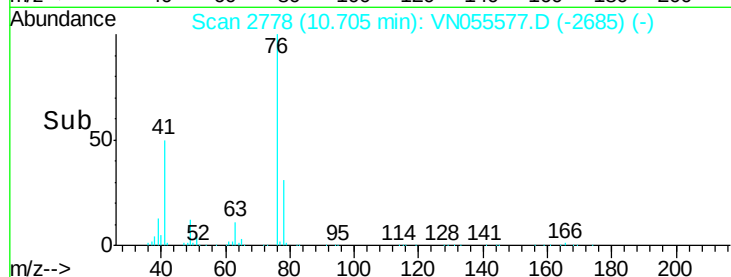
150000

100000

50000

0

Time--> 10.60 10.70 10.80



#58

2-Chloroethyl Vinyl ether

Concen: 73.639 ug/l

RT: 9.69 min Scan# 2463

Delta R.T. -0.00 min

Lab File: VN055577.D

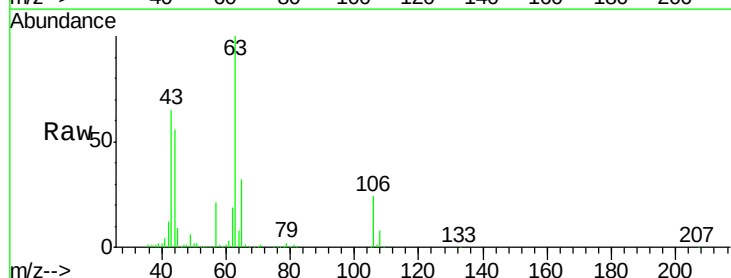
Acq: 13 May 2019 15:28

Tgt Ion: 63 Resp: 311619

Ion Ratio Lower Upper

63 100

106 23.6 18.6 27.8



Abundance Ion 62.90 (62.60 to 63.60): VN0

Ion 105.90 (105.60 to 106.60): V

9.69

200000

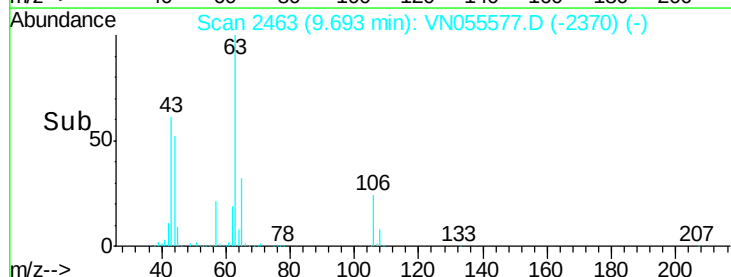
150000

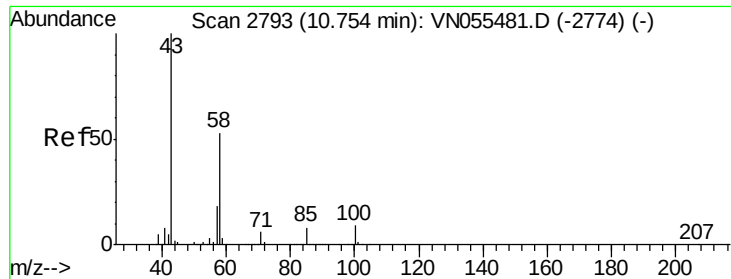
100000

50000

0

Time--> 9.60 9.65 9.70 9.75 9.80





#59

2-Hexanone

Concen: 75.496 ug/l

RT: 10.75 min Scan# 2792

Delta R.T. -0.00 min

Lab File: VN055577.D

Acq: 13 May 2019 15:28

Instrument :

MSVOA_N

ClientSampleId :

VN0513WBSD01

Tot Ion: 43 Resp: 776365

Ion Ratio Lower Upper

43 100

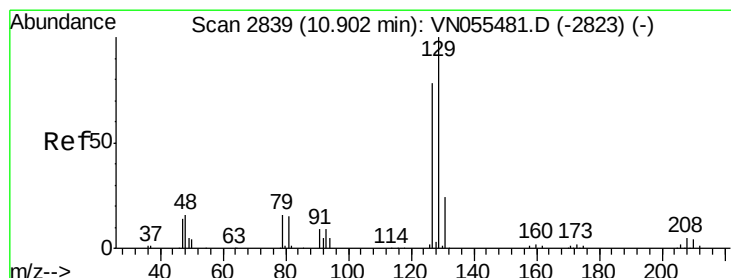
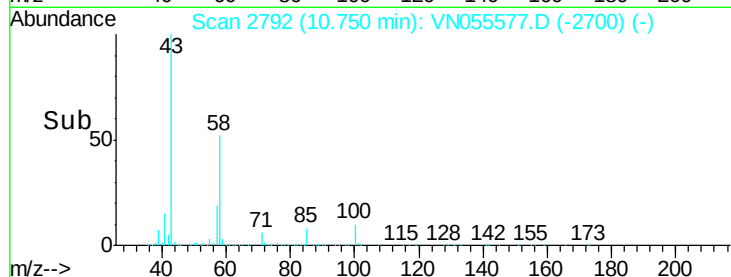
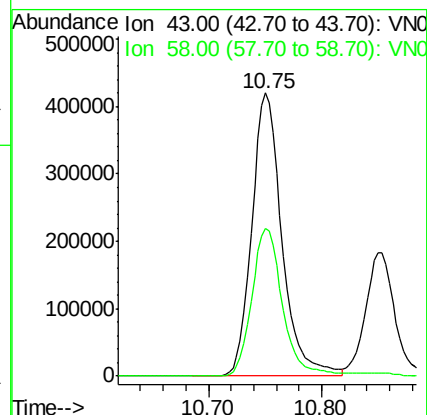
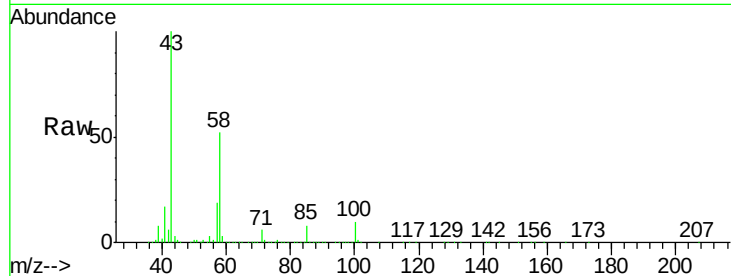
58 53.4 26.4 79.0

Manual Integrations

APPROVED

MMDadoda

5/14/2019 9:42:45 AM



#60

Dibromochloromethane

Concen: 19.880 ug/l

RT: 10.90 min Scan# 2838

Delta R.T. -0.00 min

Lab File: VN055577.D

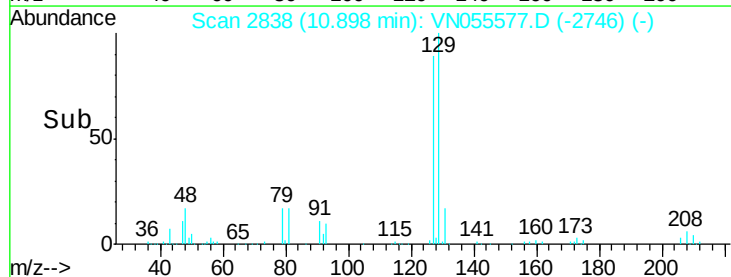
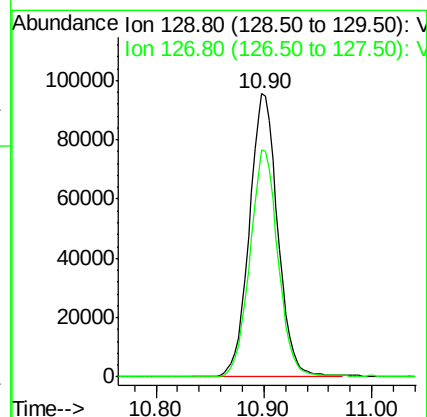
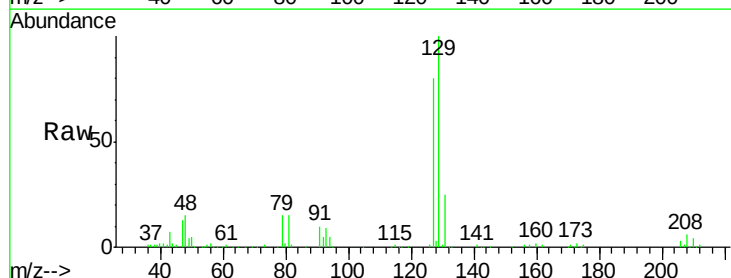
Acq: 13 May 2019 15:28

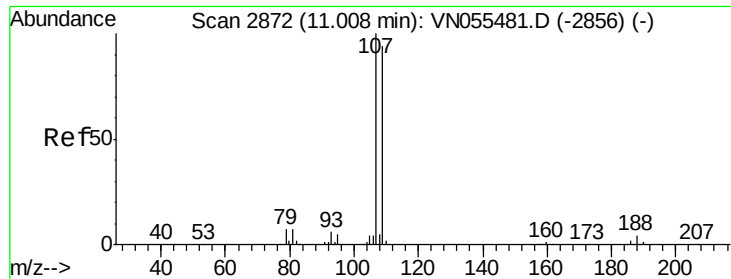
Tgt Ion: 129 Resp: 174814

Ion Ratio Lower Upper

129 100

127 79.4 38.6 116.0





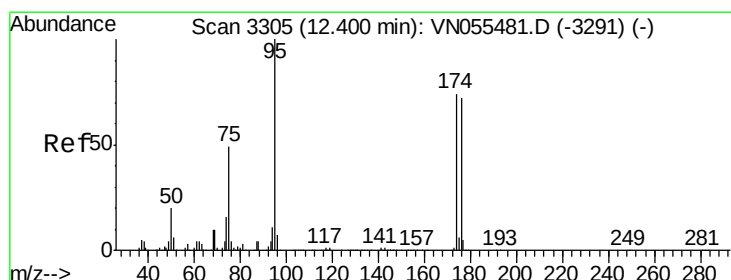
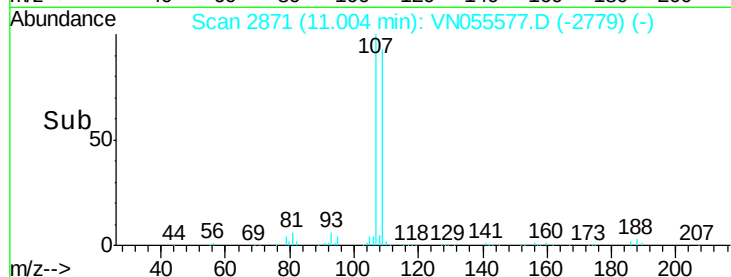
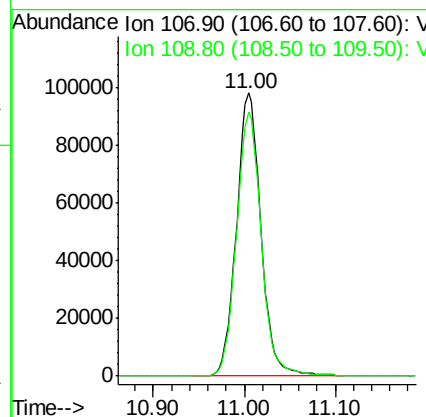
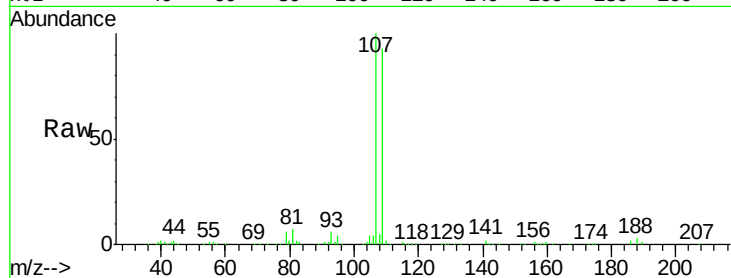
#61
 1,2-Dibromoethane
 Concen: 19.781 ug/l
 RT: 11.00 min Scan# 2871
 Delta R.T. -0.00 min
 Lab File: VN055577.D
 Acq: 13 May 2019 15:28

Instrument :
 MSVOA_N
 ClientSampleId :
 VN0513WBSD01

Tot Ion	Ratio	Resp	Lower	Upper
107	100	183816		
109	94.7	74.2	111.4	

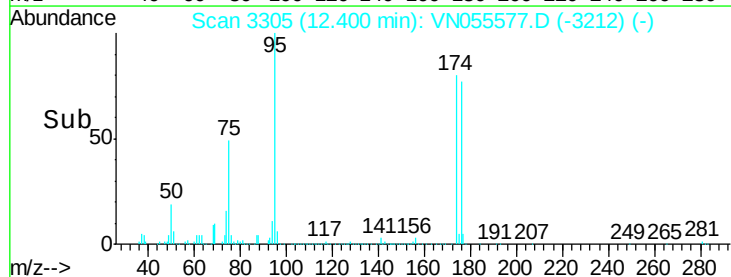
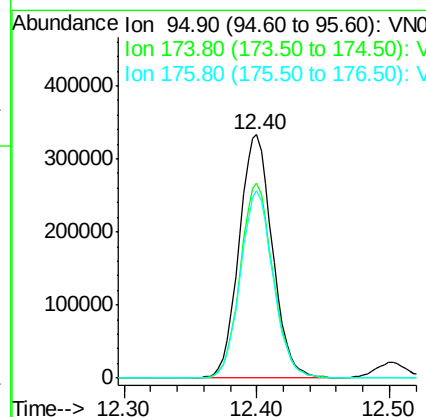
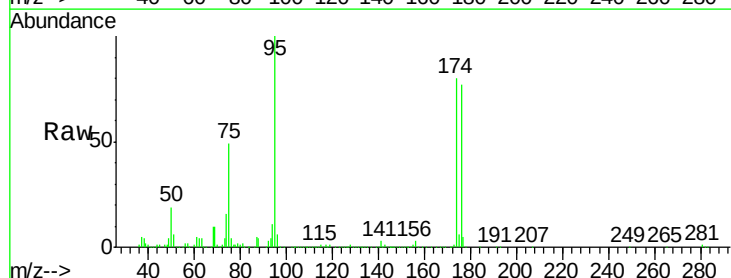
Manual Integrations
 APPROVED

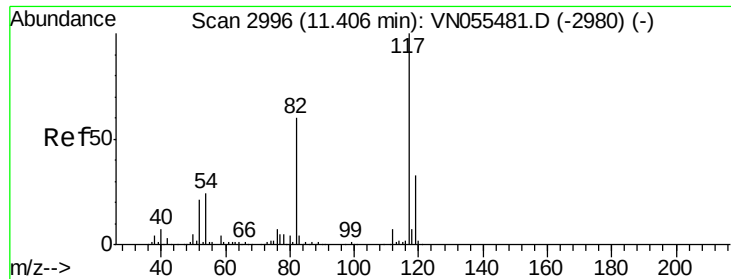
MMDadoda
 5/14/2019 9:42:45 AM



#62
 4-Bromofluorobenzene
 Concen: 49.981 ug/l
 RT: 12.40 min Scan# 3305
 Delta R.T. -0.00 min
 Lab File: VN055577.D
 Acq: 13 May 2019 15:28

Tgt Ion	Ratio	Resp	Lower	Upper
95	100	578536		
174	79.3	0.0	152.2	
176	76.1	0.0	147.8	





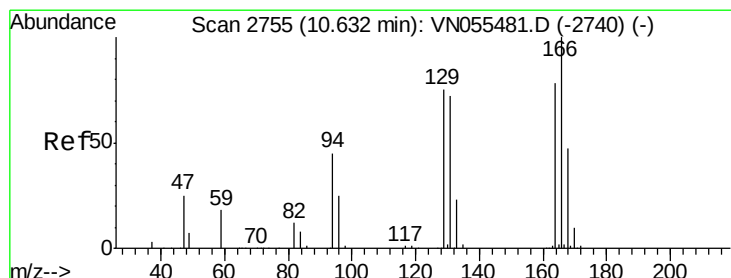
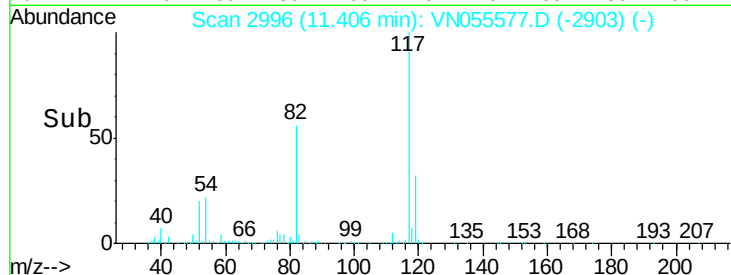
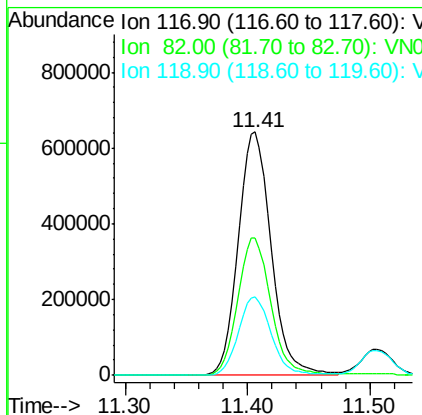
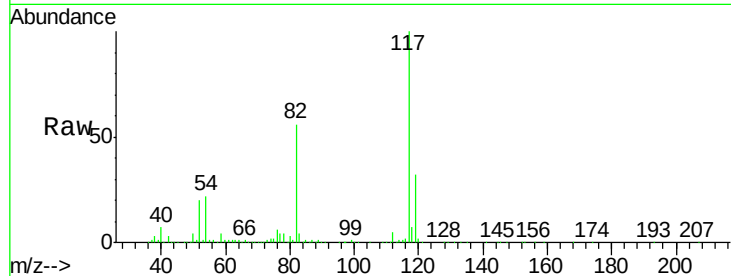
#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.41 min Scan# 2996
Delta R.T. -0.00 min
Lab File: VN055577.D
Acq: 13 May 2019 15:28

Instrument :
MSVOA_N
ClientSampleId :
VN0513WBSD01

Tot Ion:117 Resp: 1197170
Ion Ratio Lower Upper
117 100
82 56.4 48.0 72.0
119 32.1 26.0 39.0

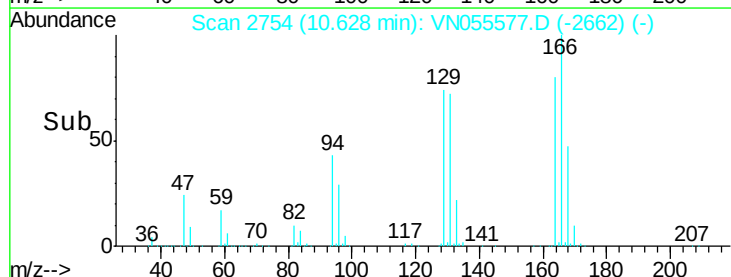
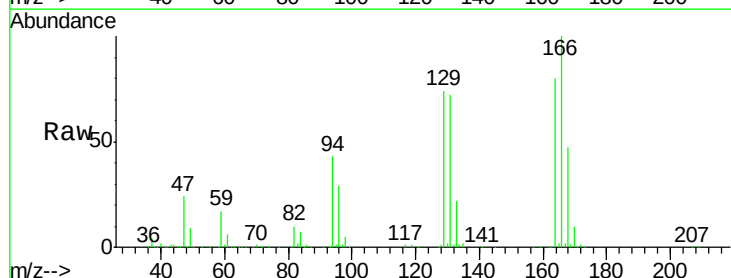
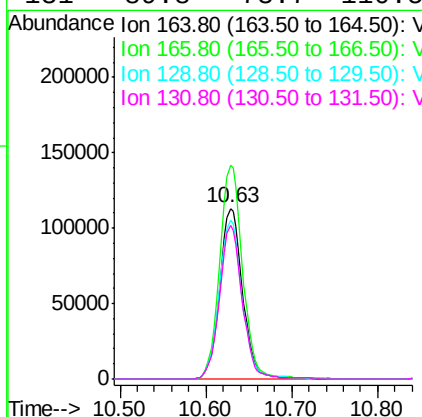
Manual Integrations
APPROVED

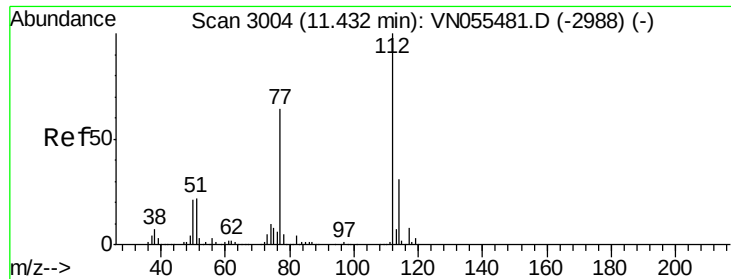
MMDadoda
5/14/2019 9:42:45 AM



#64
Tetrachloroethene
Concen: 21.351 ug/l
RT: 10.63 min Scan# 2754
Delta R.T. -0.00 min
Lab File: VN055577.D
Acq: 13 May 2019 15:28

Tgt Ion:164 Resp: 209449
Ion Ratio Lower Upper
164 100
166 125.1 102.6 153.8
129 92.7 77.0 115.6
131 89.8 73.7 110.5





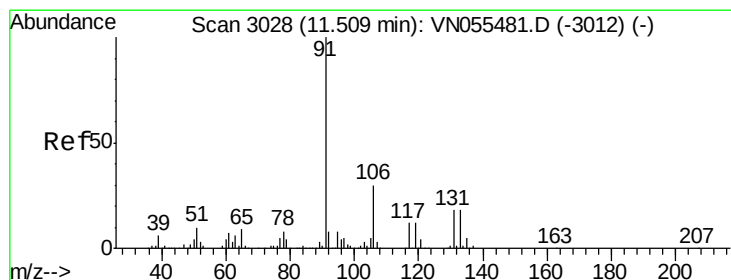
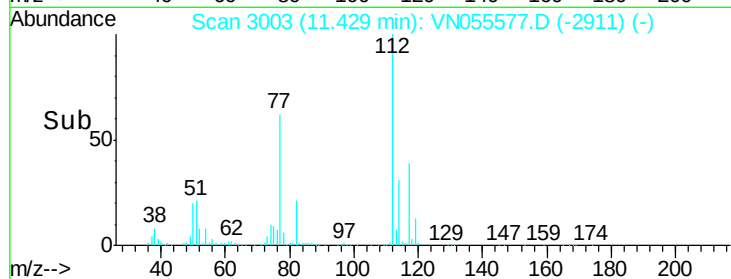
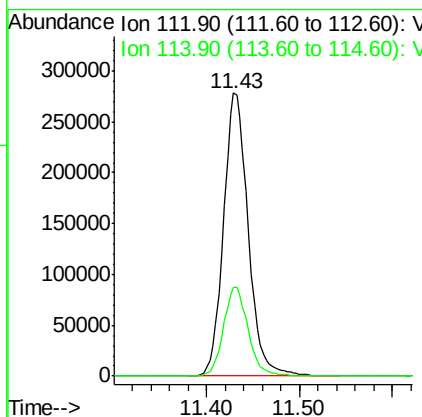
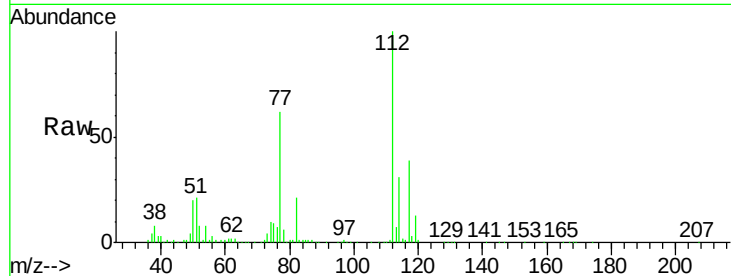
#65
Chlorobenzene
Concen: 20.843 ug/l
RT: 11.43 min Scan# 3003
Delta R.T. -0.00 min
Lab File: VN055577.D
Acq: 13 May 2019 15:28

Instrument :
MSVOA_N
ClientSampleId :
VN0513WBSD01

Tot Ion:112 Resp: 513370
Ion Ratio Lower Upper
112 100
114 31.2 25.0 37.4

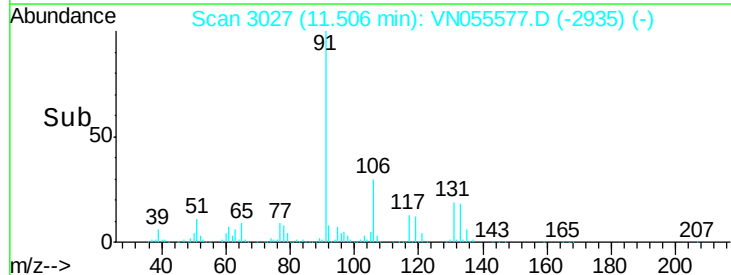
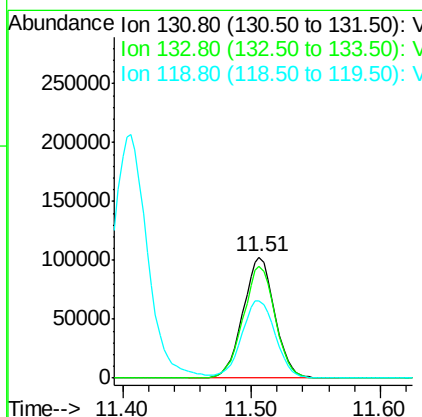
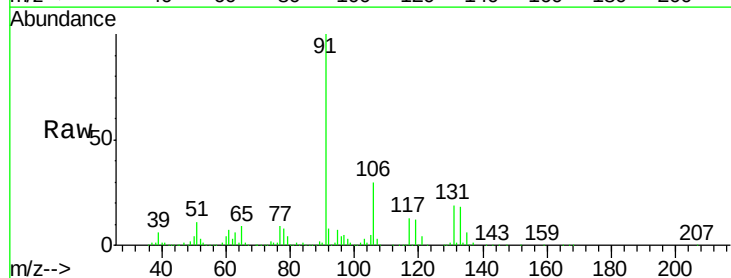
Manual Integrations
APPROVED

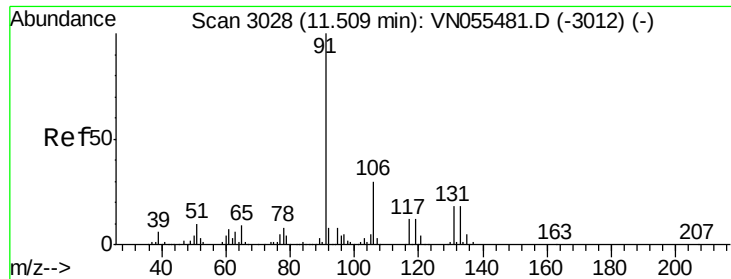
MMDadoda
5/14/2019 9:42:45 AM



#66
1,1,1,2-Tetrachloroethane
Concen: 20.692 ug/l
RT: 11.51 min Scan# 3027
Delta R.T. -0.00 min
Lab File: VN055577.D
Acq: 13 May 2019 15:28

Tgt Ion:131 Resp: 175449
Ion Ratio Lower Upper
131 100
133 93.3 47.4 142.2
119 67.5 34.1 102.2





#67

Ethyl Benzene

Concen: 20.021 ug/l

RT: 11.51 min Scan# 3028

Delta R.T. -0.00 min

Lab File: VN055577.D

Acq: 13 May 2019 15:28

Instrument :

MSVOA_N

ClientSampleId :

VN0513WBSD01

Tot Ion: 91 Resp: 926132

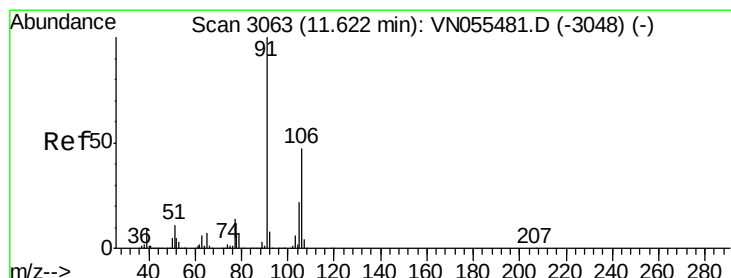
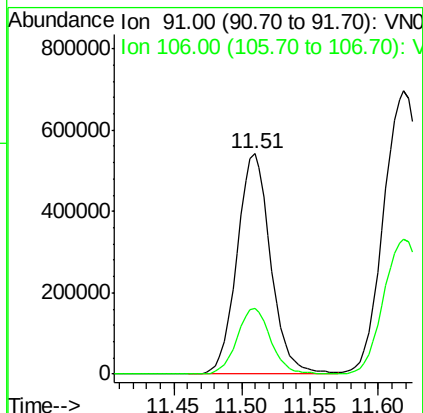
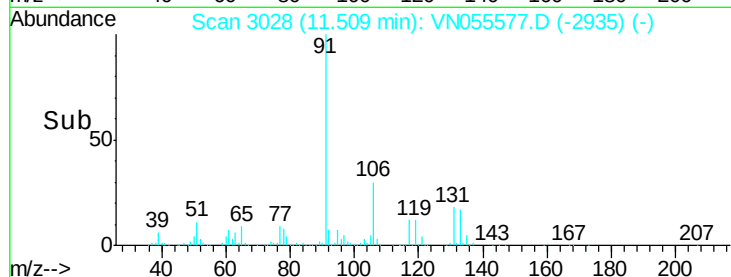
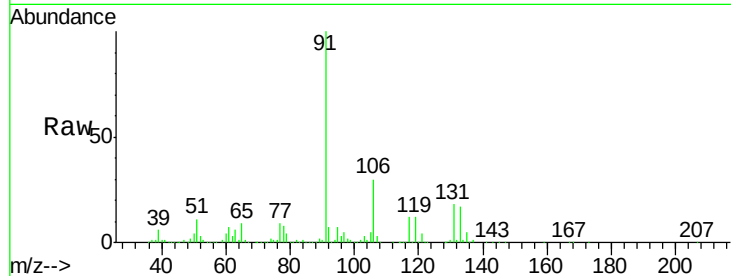
Ion Ratio Lower Upper

91 100

106 30.0 23.8 35.6

Manual Integrations
APPROVED

MMDadoda
5/14/2019 9:42:45 AM



#68

m/p-Xylenes

Concen: 40.616 ug/l

RT: 11.62 min Scan# 3062

Delta R.T. -0.00 min

Lab File: VN055577.D

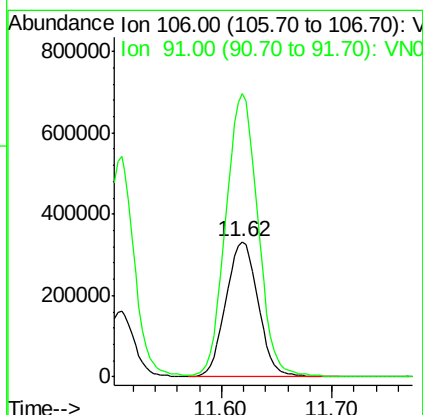
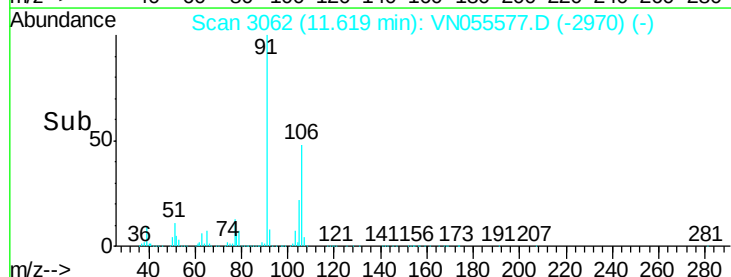
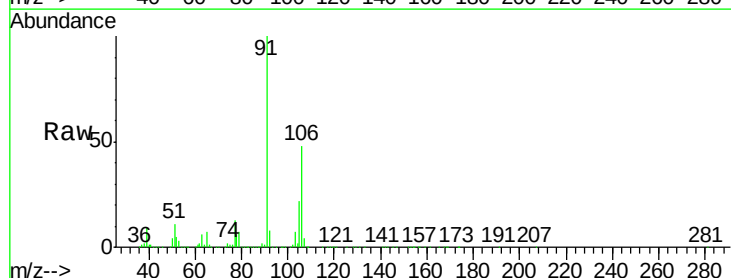
Acq: 13 May 2019 15:28

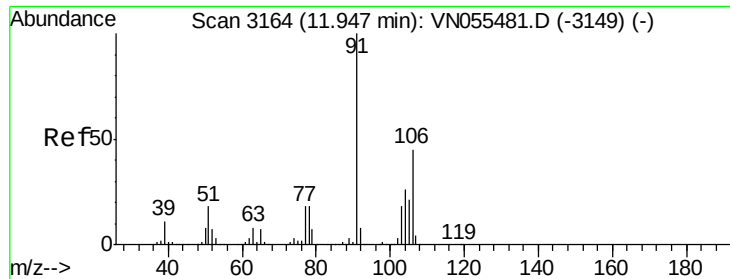
Tgt Ion: 106 Resp: 674262

Ion Ratio Lower Upper

106 100

91 208.9 169.2 253.8





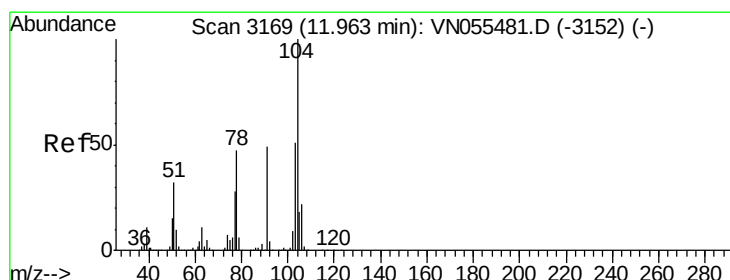
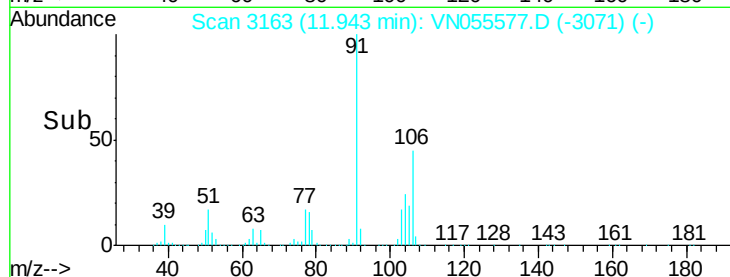
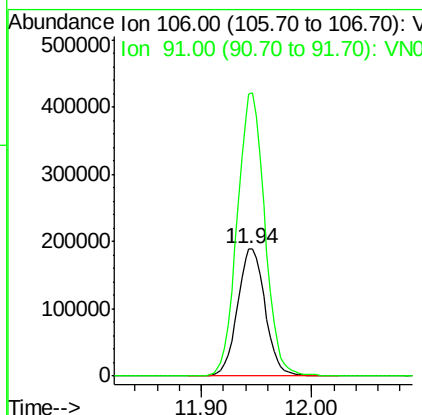
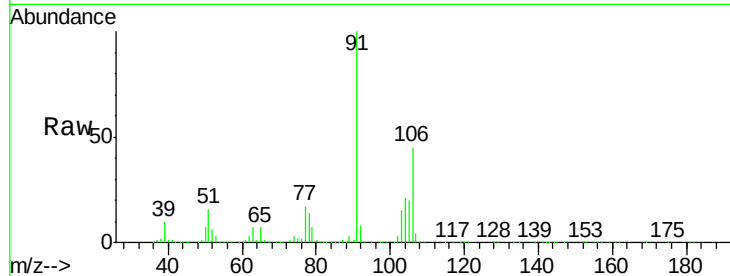
#69
o-Xylene
Concen: 20.134 ug/l
RT: 11.94 min Scan# 3163
Delta R.T. -0.00 min
Lab File: VN055577.D
Acq: 13 May 2019 15:28

Instrument :
MSVOA_N
ClientSampleId :
VN0513WBSD01

Tot Ion	Ion	Ratio	Resp	Lower	Upper
106	100		328519		
91	221.1	111.3	333.8		

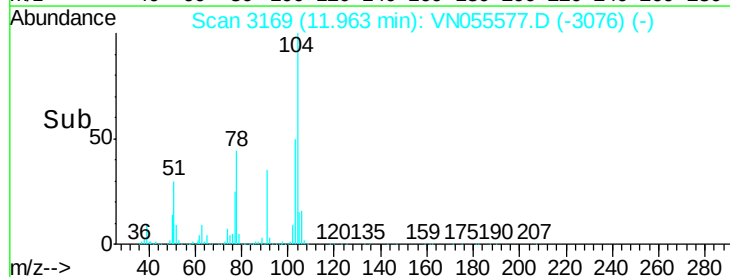
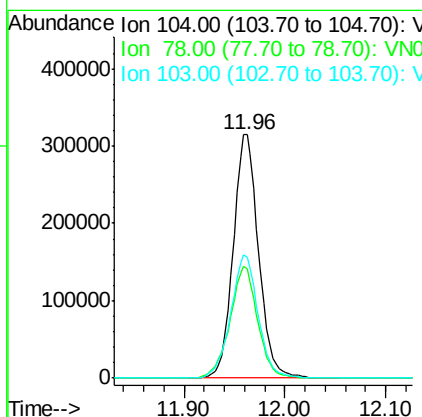
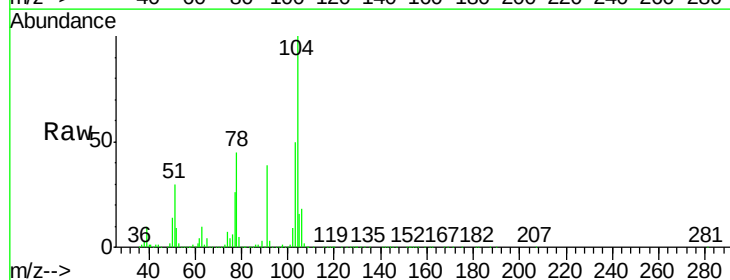
Manual Integrations
APPROVED

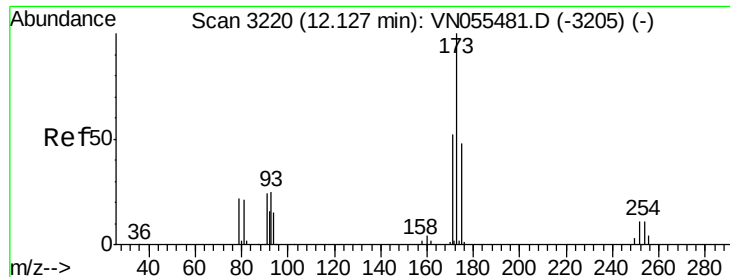
MMDadoda
5/14/2019 9:42:45 AM



#70
Styrene
Concen: 21.036 ug/l
RT: 11.96 min Scan# 3169
Delta R.T. -0.00 min
Lab File: VN055577.D
Acq: 13 May 2019 15:28

Tgt Ion	Ion	Ratio	Resp	Lower	Upper
104	100		549911		
78	50.1	41.6	62.4		
103	54.6	44.4	66.6		





#71

Bromoform

Concen: 19.101 ug/l

RT: 12.12 min Scan# 3219

Delta R.T. -0.00 min

Lab File: VN055577.D

Acq: 13 May 2019 15:28

Instrument :

MSVOA_N

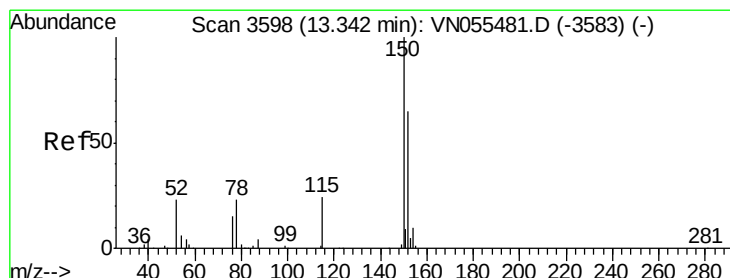
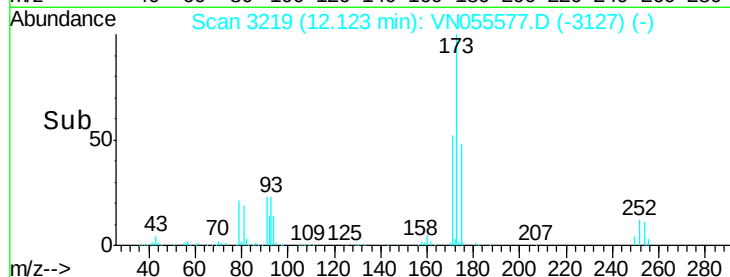
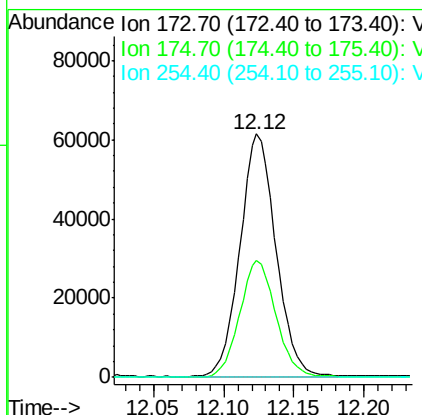
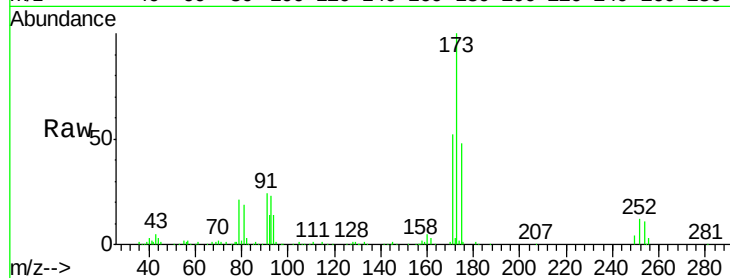
ClientSampleId :

VN0513WBSD01

Tot Ion:	173	Resp:	109294
Ion Ratio	Lower	Upper	
173	100		
175	48.7	24.1	72.4
254	0.1	0.1	0.1

Manual Integrations
APPROVED

MMDadoda
5/14/2019 9:42:45 AM



#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

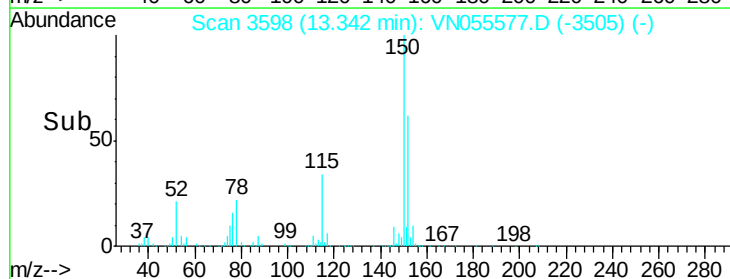
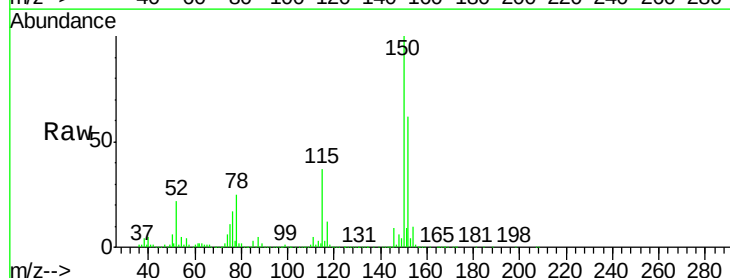
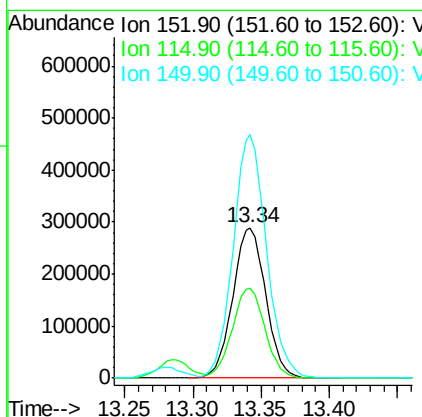
RT: 13.34 min Scan# 3598

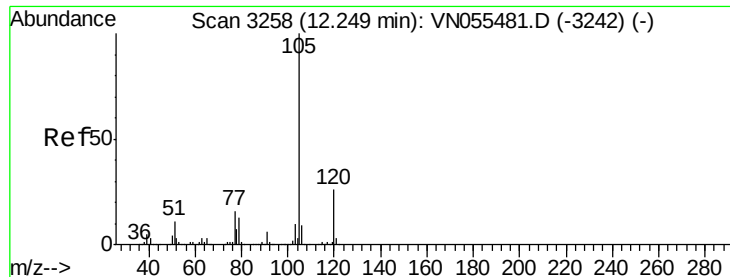
Delta R.T. -0.00 min

Lab File: VN055577.D

Acq: 13 May 2019 15:28

Tgt Ion:	152	Resp:	481390
Ion Ratio	Lower	Upper	
152	100		
115	59.2	30.1	90.5
150	164.6	0.0	355.0





#73

Isopropylbenzene

Concen: 20.592 ug/l

RT: 12.25 min Scan# 3257

Delta R.T. -0.00 min

Lab File: VN055577.D

Acq: 13 May 2019 15:28

Instrument :

MSVOA_N

ClientSampleId :

VN0513WBSD01

Tot Ion:105 Resp: 875846

Ion Ratio Lower Upper

105 100

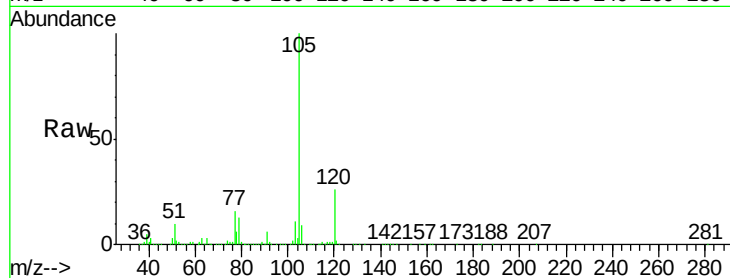
120 26.5 13.0 39.0

Manual Integrations

APPROVED

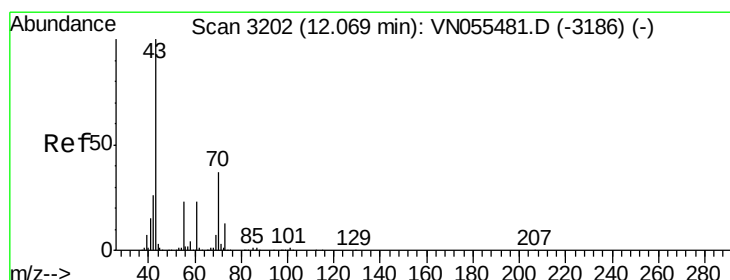
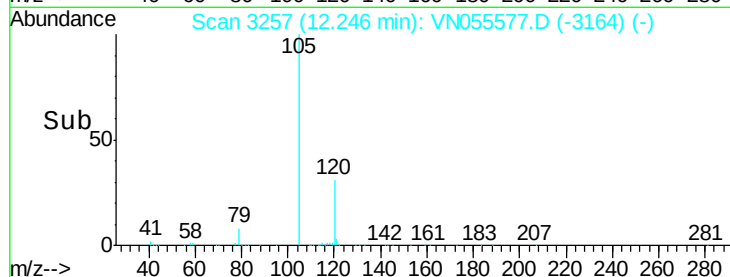
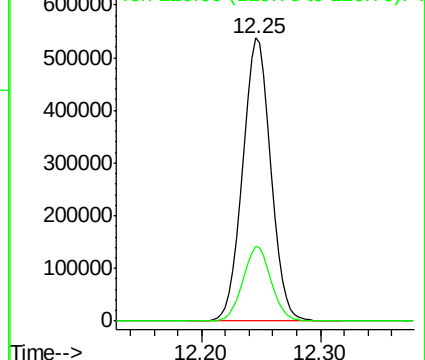
MMDadoda

5/14/2019 9:42:45 AM



Abundance Ion 105.00 (104.70 to 105.70): V

Ion 120.00 (119.70 to 120.70): V



#74

N-ethyl acetate

Concen: 15.190 ug/l

RT: 12.07 min Scan# 3202

Delta R.T. -0.00 min

Lab File: VN055577.D

Acq: 13 May 2019 15:28

Tgt Ion: 43 Resp: 277613

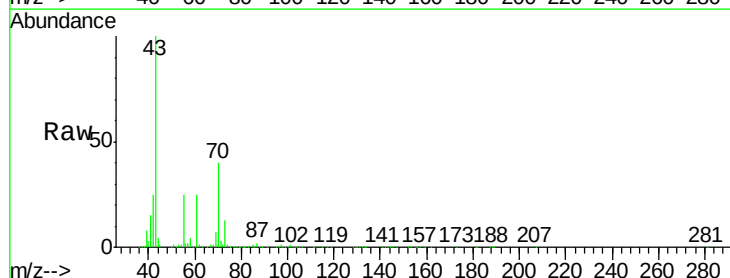
Ion Ratio Lower Upper

43 100

70 40.2 30.7 46.1

55 24.4 19.3 28.9

61 24.1 18.6 27.8

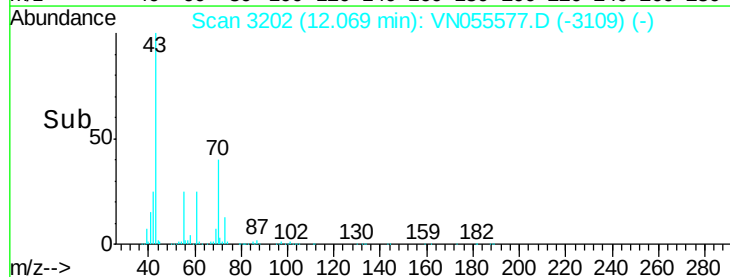
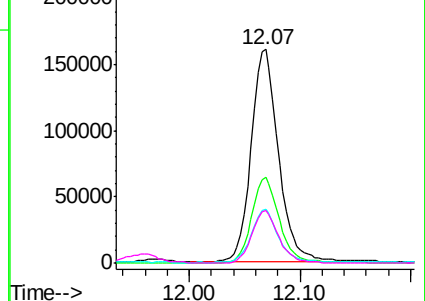


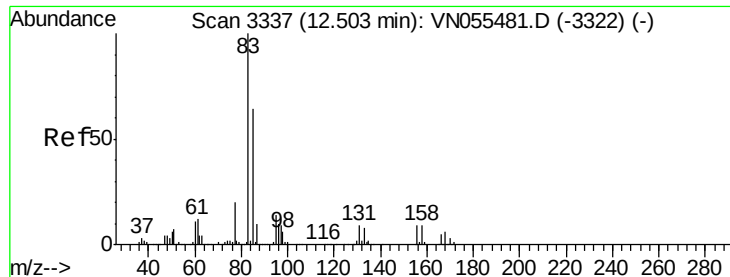
Abundance Ion 43.00 (42.70 to 43.70): V

Ion 70.00 (69.70 to 70.70): V

Ion 55.00 (54.70 to 55.70): V

Ion 61.00 (60.70 to 61.70): V





#75

1,1,2,2-Tetrachloroethane

Concen: 17.726 ug/l

RT: 12.50 min Scan# 3337

Delta R.T. 0.00 min

Lab File: VN055577.D

Acq: 13 May 2019 15:28

Instrument :

MSVOA_N

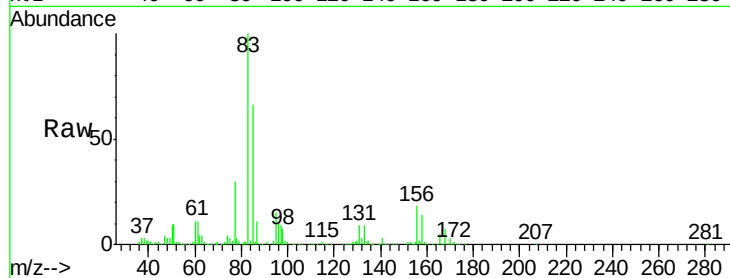
ClientSampleId :

VN0513WBSD01

Tot Ion:	83	Resp:	249144
Ion Ratio	Lower	Upper	
83	100		
131	9.3	4.5	13.5
85	64.5	32.0	96.0

Manual Integrations
APPROVED

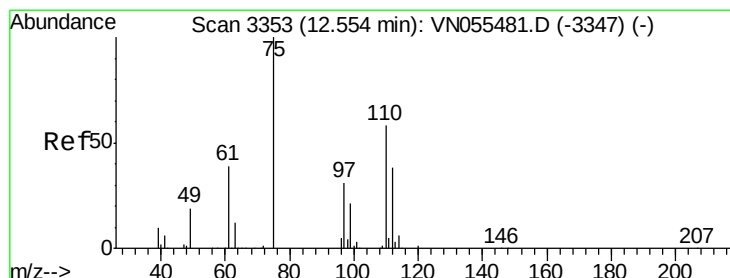
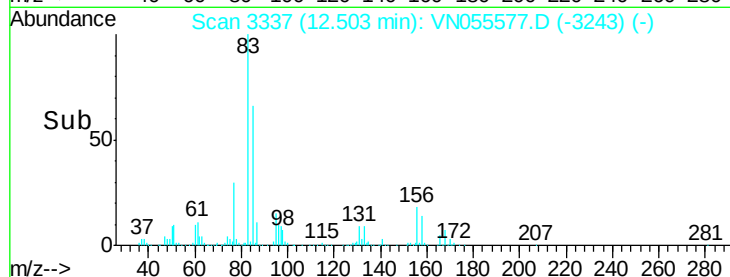
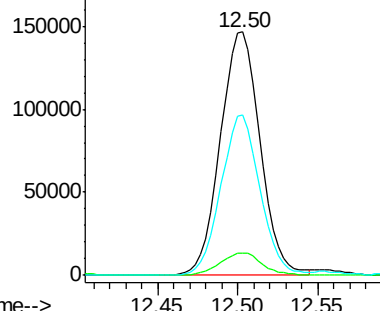
MMDadoda
5/14/2019 9:42:45 AM



Abundance Ion 82.90 (82.60 to 83.60): VN055577.D (-3243) (-)

Ion 130.80 (130.50 to 131.50): VN055577.D (-3243) (-)

Ion 84.90 (84.60 to 85.60): VN055577.D (-3243) (-)



#76

1,2,3-Trichloropropane

Concen: 16.310 ug/l m

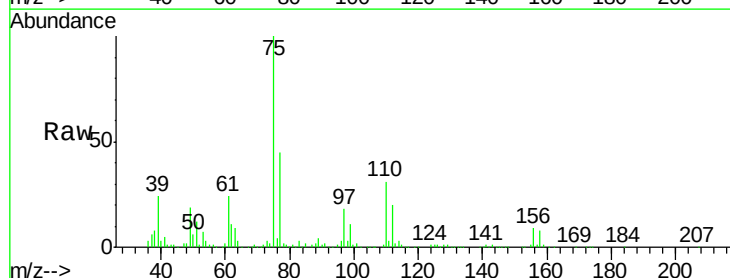
RT: 12.55 min Scan# 3352

Delta R.T. -0.00 min

Lab File: VN055577.D

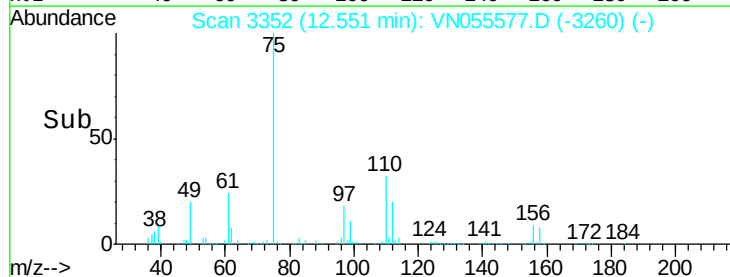
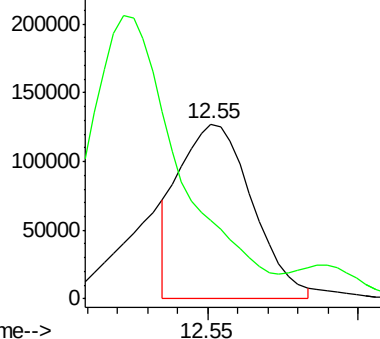
Acq: 13 May 2019 15:28

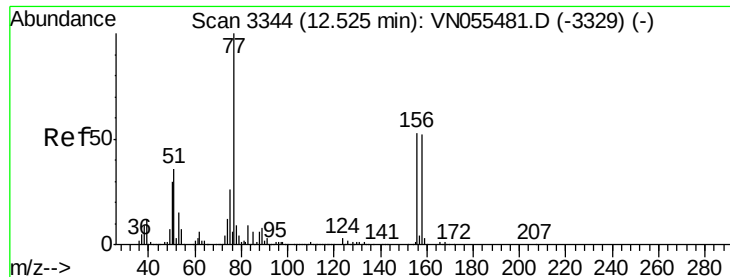
Tgt Ion:	75	Resp:	213743
Ion Ratio	Lower	Upper	
75	100		
77	0.0	0.0	0.0



Abundance Ion 74.90 (74.60 to 75.60): VN055577.D (-3260) (-)

Ion 77.00 (76.70 to 77.70): VN055577.D (-3260) (-)





#77

Bromobenzene

Concen: 19.581 ug/l

RT: 12.53 min Scan# 3344

Delta R.T. -0.00 min

Lab File: VN055577.D

Acq: 13 May 2019 15:28

Instrument :

MSVOA_N

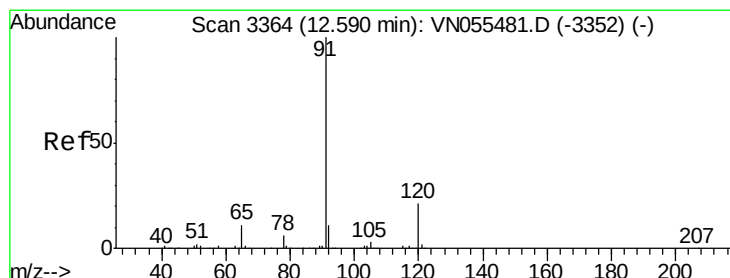
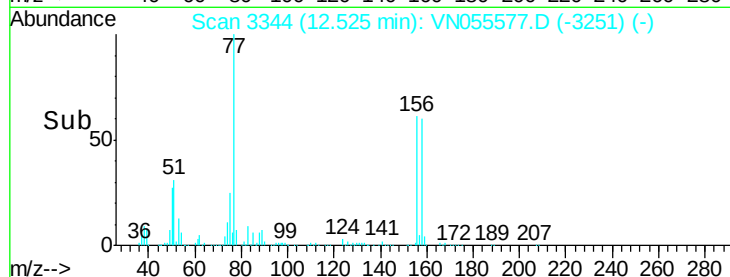
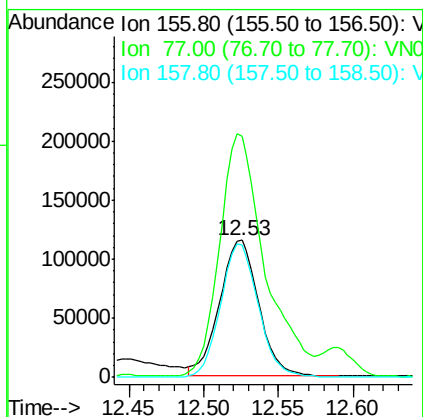
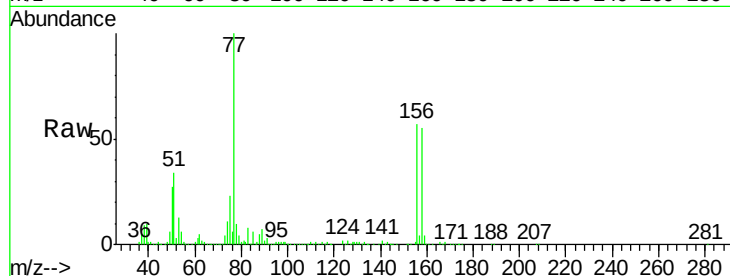
ClientSampleId :

VN0513WBSD01

Tot Ion:	156	Resp:	207732
Ion Ratio	Lower	Upper	
156	100		
77	208.6	115.4	346.2
158	96.1	48.7	146.1

Manual Integrations
APPROVED

MMDadoda
5/14/2019 9:42:45 AM



#78

n-propylbenzene

Concen: 19.274 ug/l

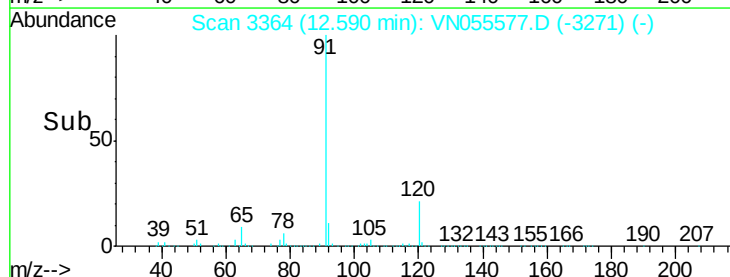
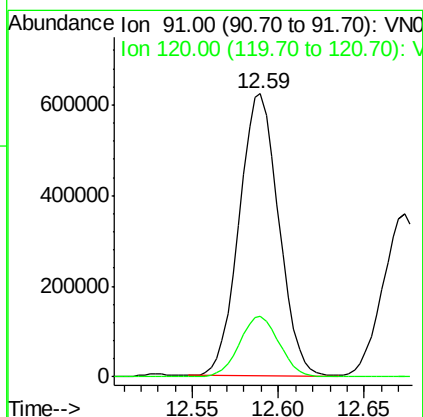
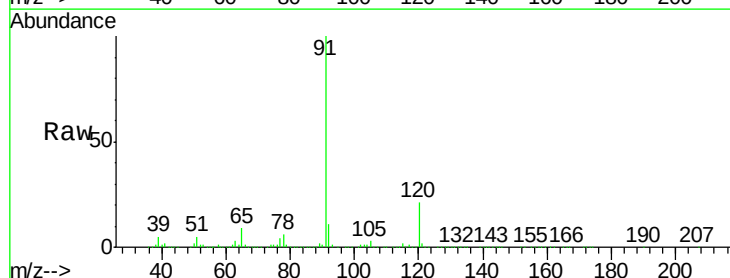
RT: 12.59 min Scan# 3364

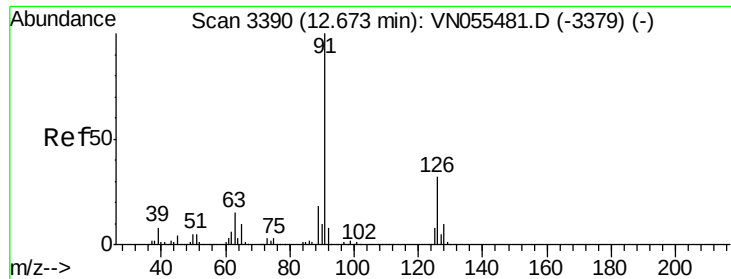
Delta R.T. -0.00 min

Lab File: VN055577.D

Acq: 13 May 2019 15:28

Tgt Ion:	91	Resp:	995144
Ion Ratio	Lower	Upper	
91	100		
120	21.7	10.8	32.3





#79

2-Chlorotoluene

Concen: 18.440 ug/l

RT: 12.67 min Scan# 3390

Delta R.T. -0.00 min

Lab File: VN055577.D

Acq: 13 May 2019 15:28

Instrument :

MSVOA_N

ClientSampleId :

VN0513WBSD01

Tot Ion: 91 Resp: 593370

Ion Ratio Lower Upper

91 100

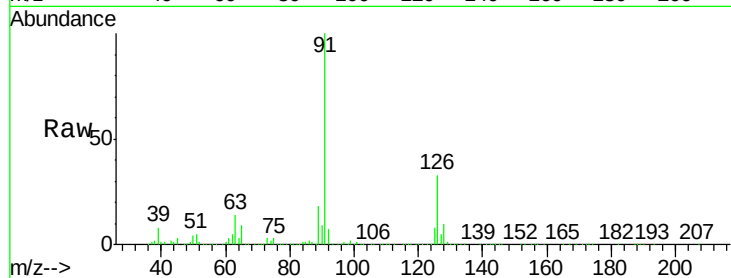
126 33.0 16.0 47.9

Manual Integrations

APPROVED

MMDadoda

5/14/2019 9:42:45 AM



Abundance Ion 91.00 (90.70 to 91.70): VN055481.D (-3379) (-)

Ion 125.90 (125.60 to 126.60): VN055481.D (-3379) (-)

500000

400000

300000

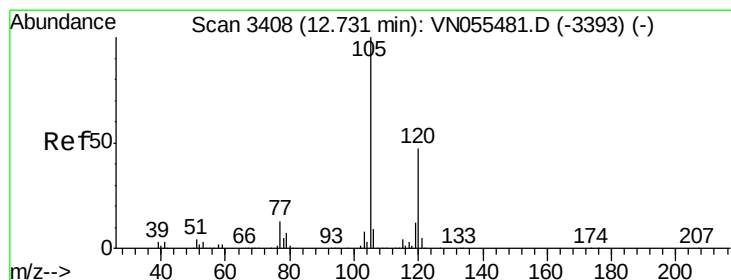
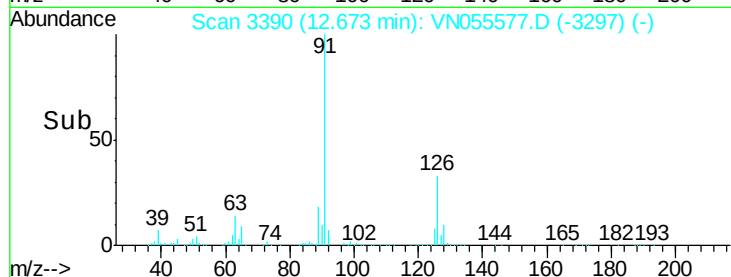
200000

100000

0

12.60 12.65 12.70

Time-->



#80

1,3,5-Trimethylbenzene

Concen: 18.634 ug/l

RT: 12.73 min Scan# 3408

Delta R.T. -0.00 min

Lab File: VN055577.D

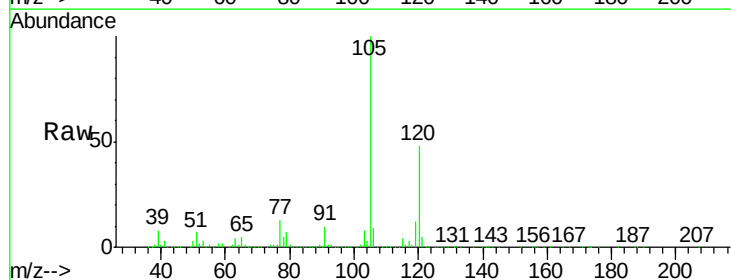
Acq: 13 May 2019 15:28

Tgt Ion: 105 Resp: 717393

Ion Ratio Lower Upper

105 100

120 47.7 23.4 70.0



Abundance Ion 105.00 (104.70 to 105.70): VN055481.D (-3393) (-)

Ion 120.00 (119.70 to 120.70): VN055481.D (-3393) (-)

500000

400000

300000

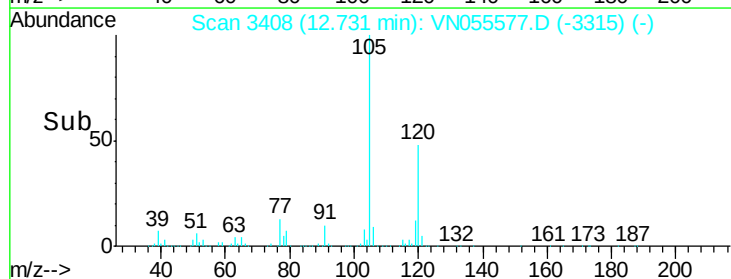
200000

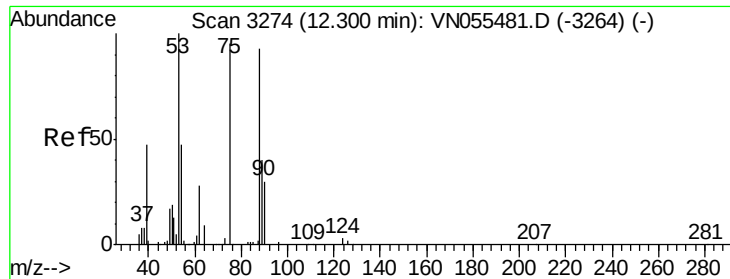
100000

0

12.70 12.75 12.80

Time-->





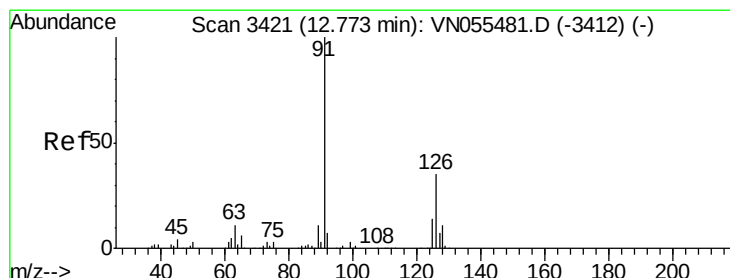
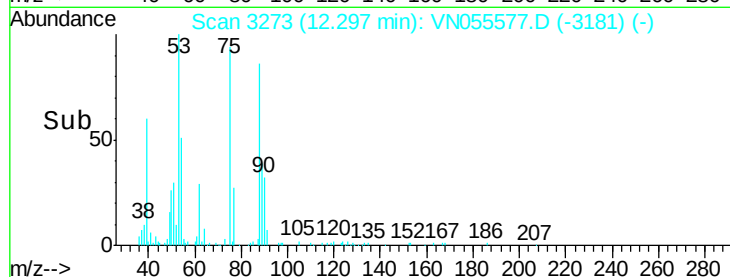
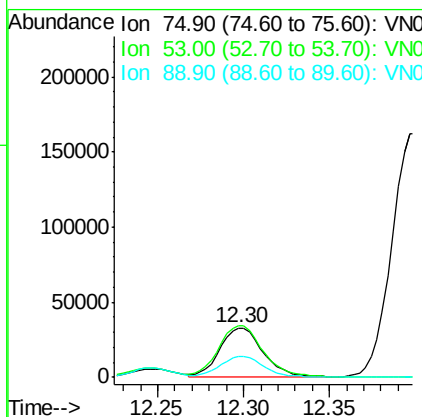
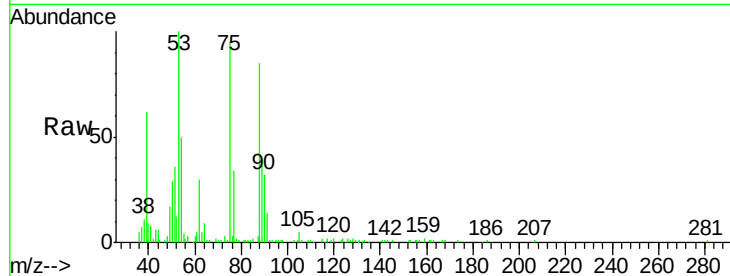
#81
trans-1,4-Dichloro-2-butene
Concen: 16.153 ug/l
RT: 12.30 min Scan# 3273
Delta R.T. -0.00 min
Lab File: VN055577.D
Acq: 13 May 2019 15:28

Instrument :
MSVOA_N
ClientSampleId :
VN0513WBSD01

Tot Ion	Ratio	Lower	Upper
75	100		
53	108.8	86.5	129.7
89	41.6	35.7	53.5

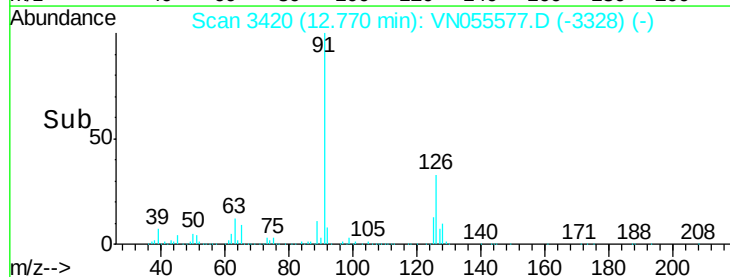
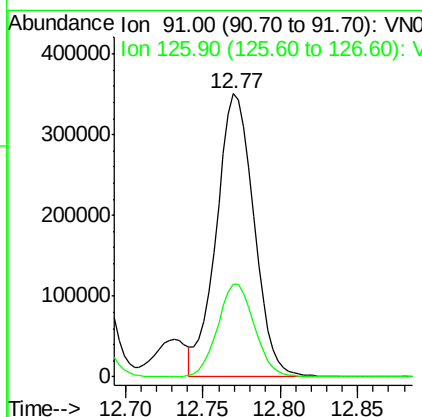
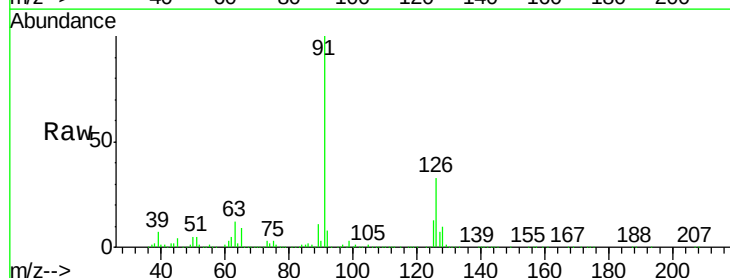
Manual Integrations
APPROVED

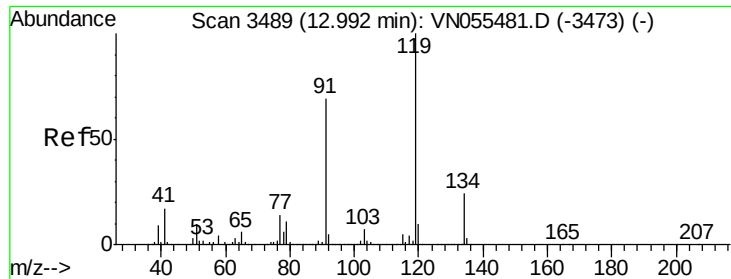
MMDadoda
5/14/2019 9:42:45 AM



#82
4-Chlorotoluene
Concen: 19.333 ug/l
RT: 12.77 min Scan# 3420
Delta R.T. -0.00 min
Lab File: VN055577.D
Acq: 13 May 2019 15:28

Tgt Ion	Ratio	Lower	Upper
91	100		
126	32.5	15.7	47.0





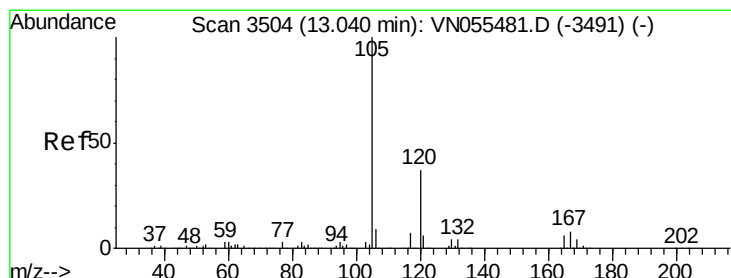
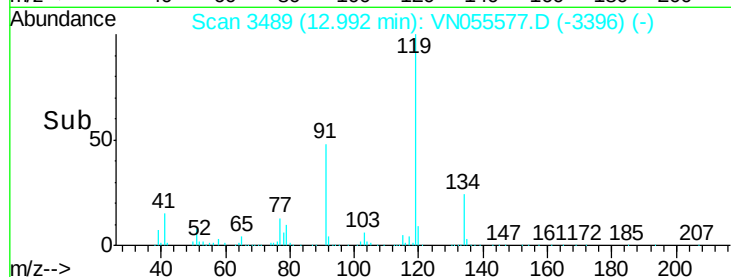
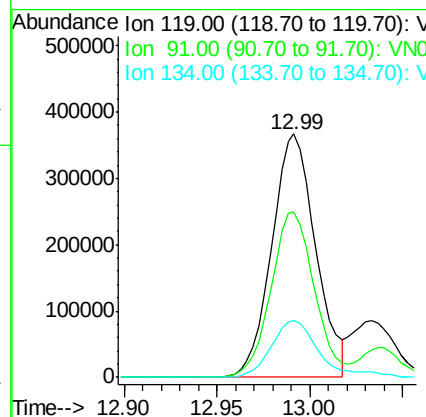
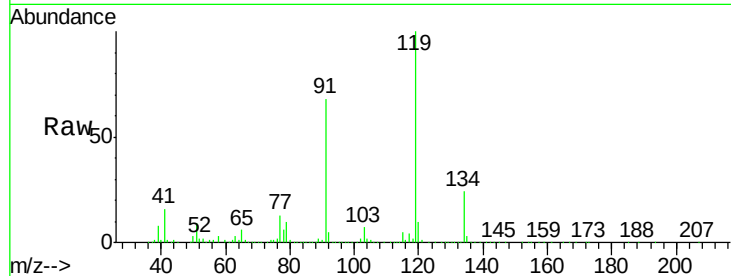
#83
 tert-Butylbenzene
 Concen: 18.291 ug/l
 RT: 12.99 min Scan# 3489
 Delta R.T. -0.00 min
 Lab File: VN055577.D
 Acq: 13 May 2019 15:28

Instrument :
 MSVOA_N
 ClientSampleId :
 VN0513WBSD01

Tot Ion	Ratio	Resp	Lower	Upper
119	100	603610		
91	67.2	33.8	101.3	
134	25.7	12.5	37.5	

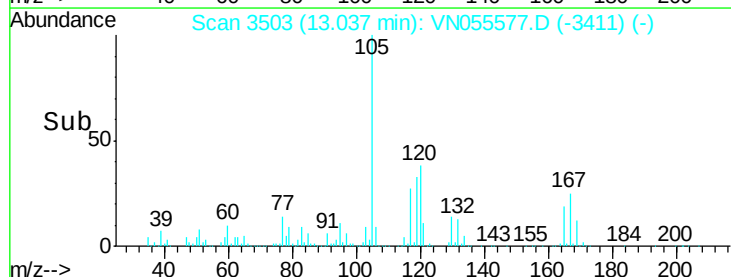
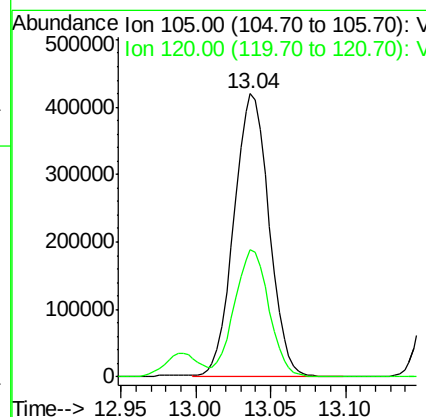
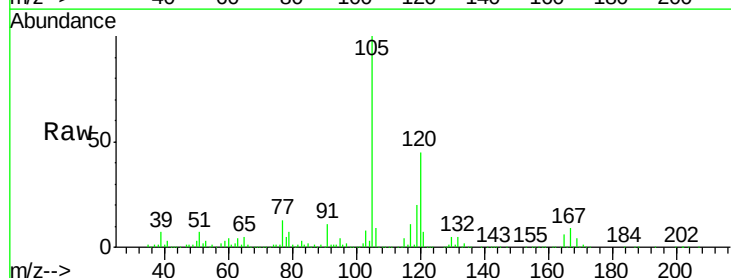
Manual Integrations
 APPROVED

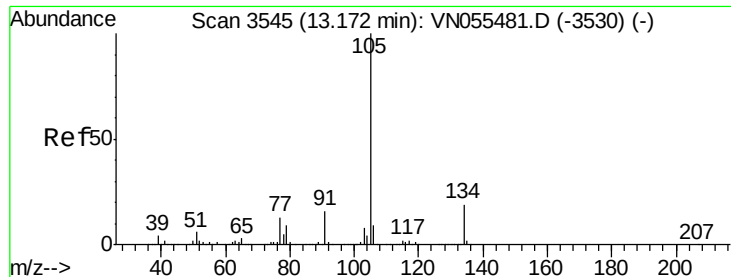
MMDadoda
 5/14/2019 9:42:45 AM



#84
 1,2,4-Trimethylbenzene
 Concen: 19.405 ug/l
 RT: 13.04 min Scan# 3503
 Delta R.T. -0.00 min
 Lab File: VN055577.D
 Acq: 13 May 2019 15:28

Tgt Ion	Ratio	Resp	Lower	Upper
105	100	685168		
120	44.7	22.1	66.5	





#85

sec-Butylbenzene

Concen: 18.360 ug/l

RT: 13.17 min Scan# 3544

Delta R.T. -0.00 min

Lab File: VN055577.D

Acq: 13 May 2019 15:28

Instrument :

MSVOA_N

ClientSampleId :

VN0513WBSD01

Tot Ion:105 Resp: 805209

Ion Ratio Lower Upper

105 100

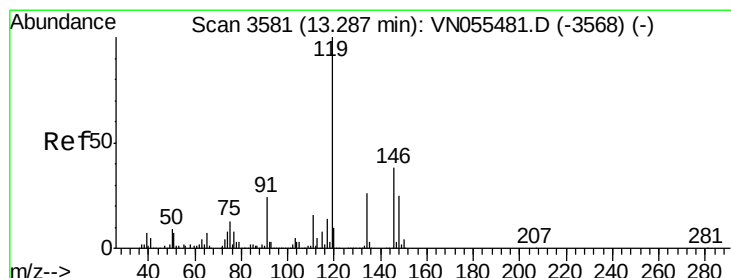
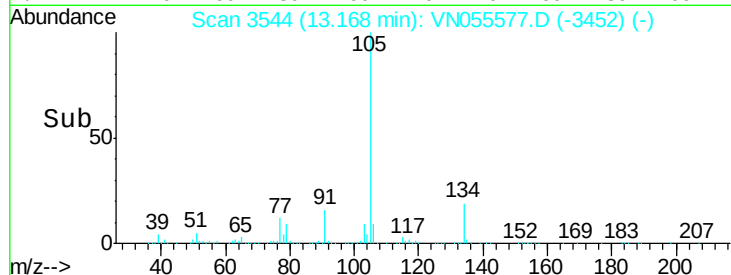
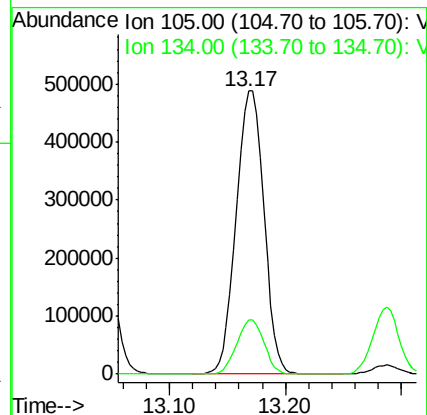
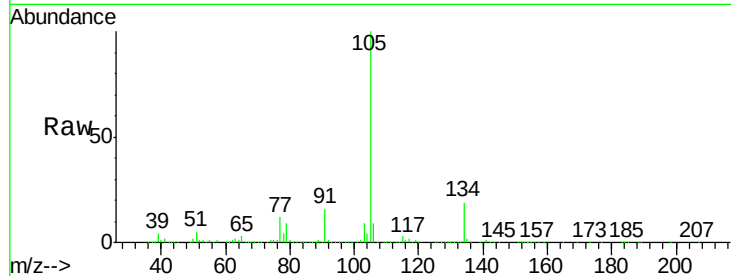
134 18.9 9.3 28.0

Manual Integrations

APPROVED

MMDadoda

5/14/2019 9:42:45 AM



#86

p-Isopropyltoluene

Concen: 19.354 ug/l

RT: 13.29 min Scan# 3581

Delta R.T. -0.00 min

Lab File: VN055577.D

Acq: 13 May 2019 15:28

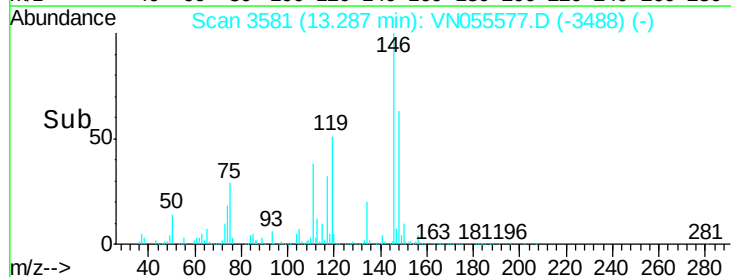
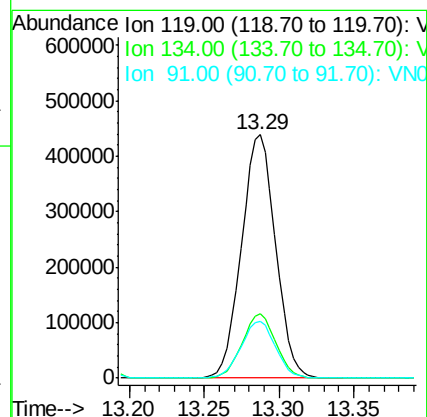
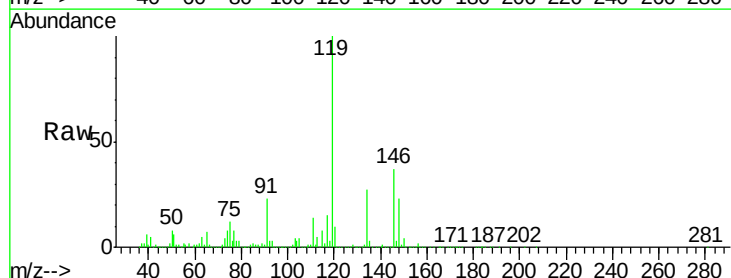
Tgt Ion:119 Resp: 690793

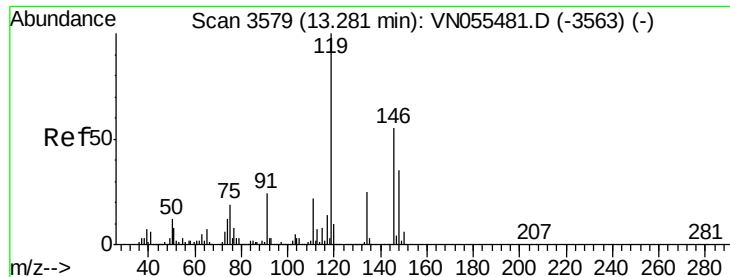
Ion Ratio Lower Upper

119 100

134 26.2 12.8 38.4

91 23.5 12.0 36.0





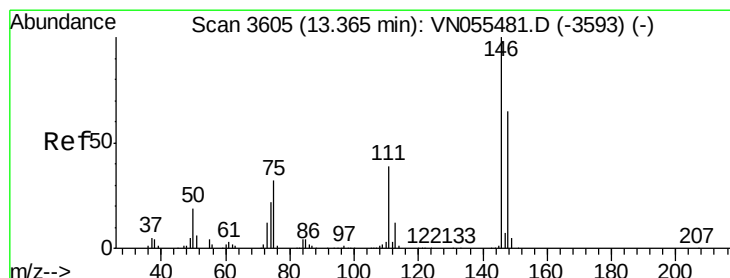
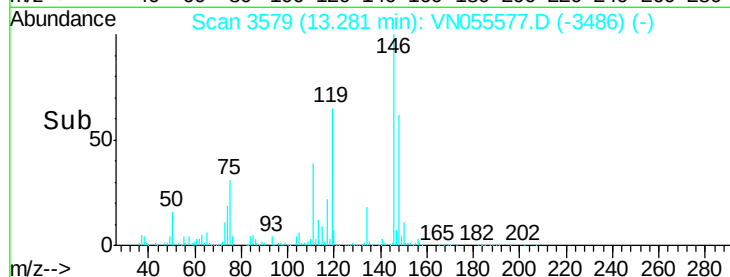
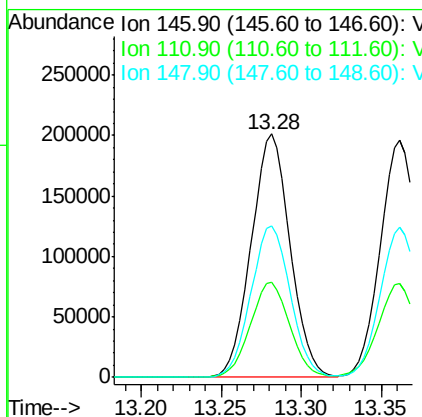
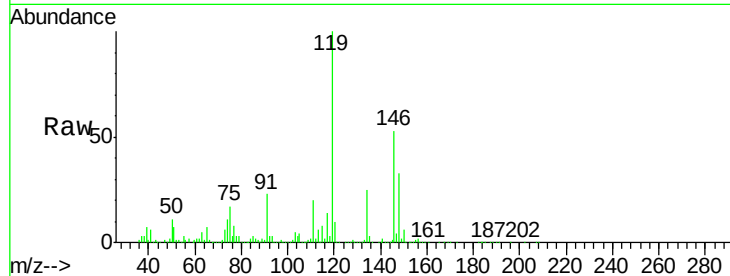
#87
 1,3-Dichlorobenzene
 Concen: 20.489 ug/l
 RT: 13.28 min Scan# 3579
 Delta R.T. -0.00 min
 Lab File: VN055577.D
 Acq: 13 May 2019 15:28

Instrument :
 MSVOA_N
 ClientSampleId :
 VN0513WBSD01

Tot Ion	Ratio	Resp	Lower	Upper
146	100			
111	39.2	20.4	61.3	
148	63.1	32.1	96.5	

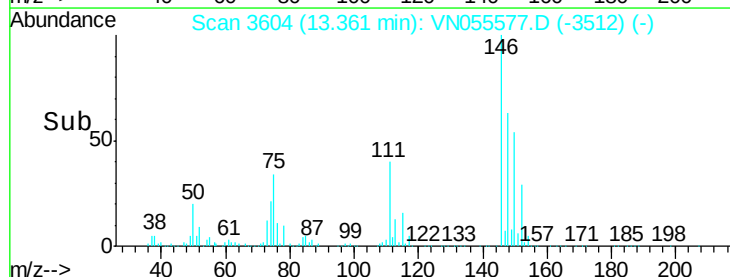
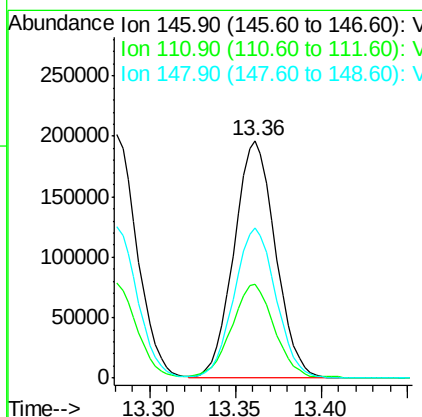
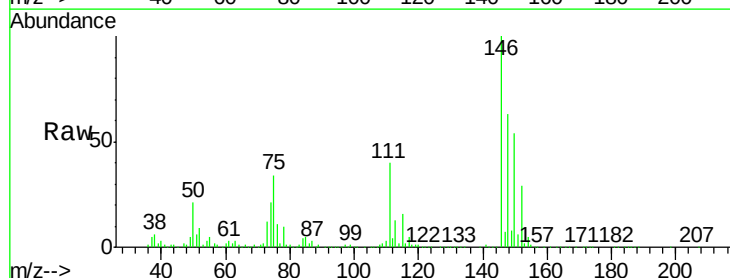
Manual Integrations
 APPROVED

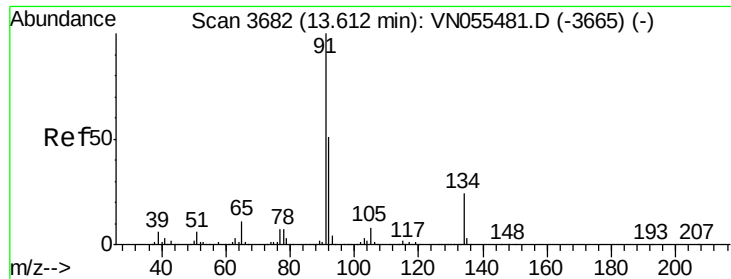
MMDadoda
 5/14/2019 9:42:45 AM



#88
 1,4-Dichlorobenzene
 Concen: 20.169 ug/l
 RT: 13.36 min Scan# 3604
 Delta R.T. -0.00 min
 Lab File: VN055577.D
 Acq: 13 May 2019 15:28

Tgt Ion	Ratio	Resp	Lower	Upper
146	100			
111	40.7	19.6	58.8	
148	64.6	32.5	97.4	





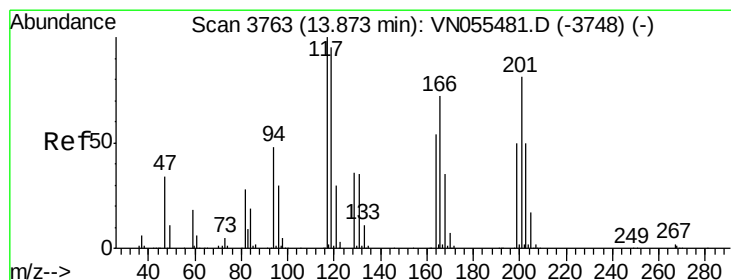
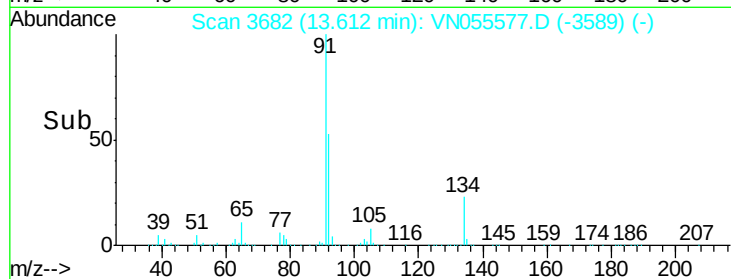
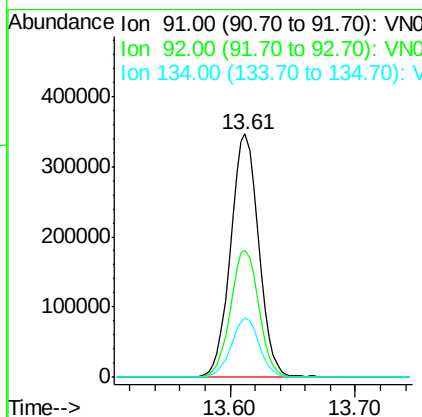
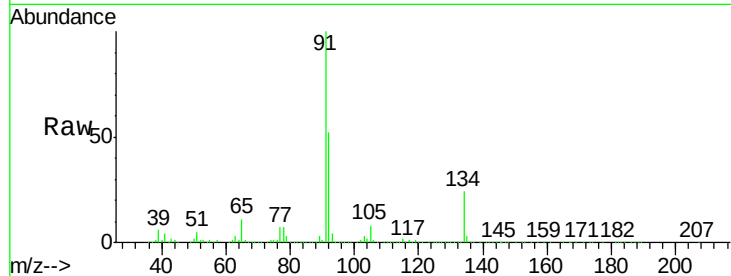
#89
n-Butylbenzene
Concen: 19.271 ug/l
RT: 13.61 min Scan# 3682
Delta R.T. -0.00 min
Lab File: VN055577.D
Acq: 13 May 2019 15:28

Instrument :
MSVOA_N
ClientSampleId :
VN0513WBSD01

Tot Ion	Ratio	Lower	Upper
91	100		
92	53.4	25.9	77.7
134	24.5	11.8	35.4

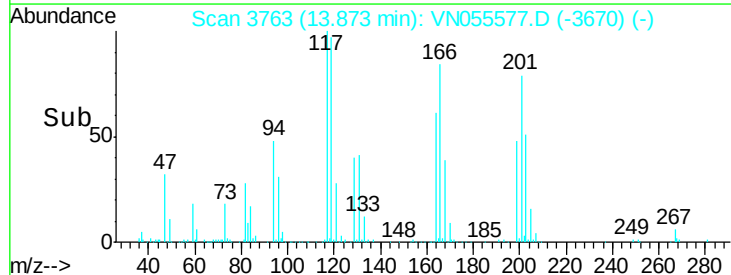
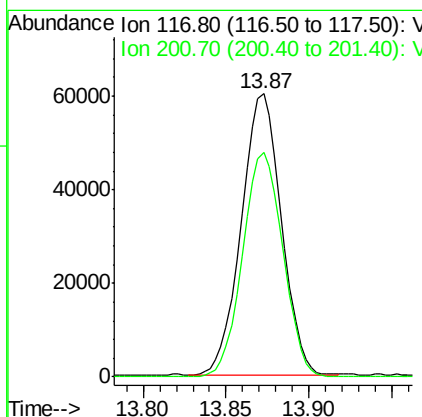
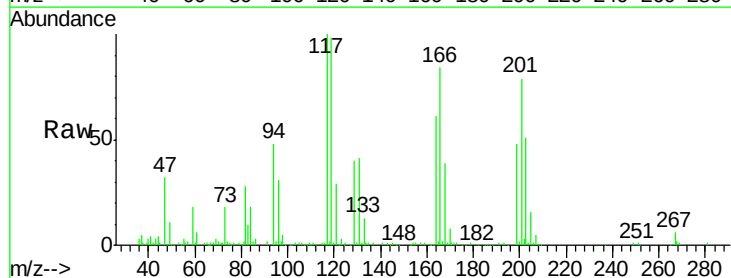
Manual Integrations
APPROVED

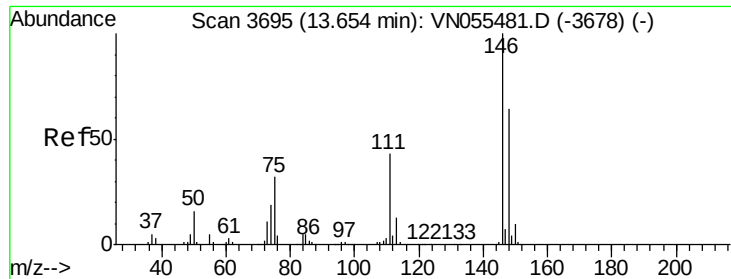
MMDadoda
5/14/2019 9:42:45 AM



#90
Hexachloroethane
Concen: 17.321 ug/l
RT: 13.87 min Scan# 3763
Delta R.T. -0.00 min
Lab File: VN055577.D
Acq: 13 May 2019 15:28

Tgt Ion	Ratio	Lower	Upper
117	100		
201	80.3	40.1	120.2





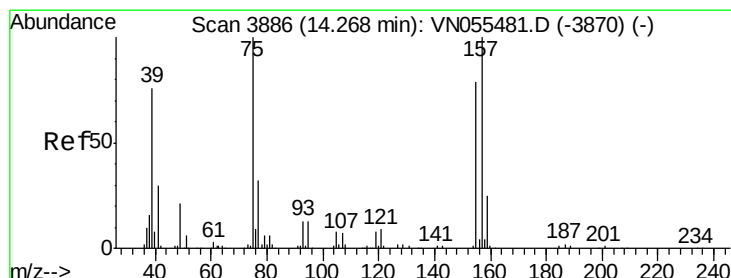
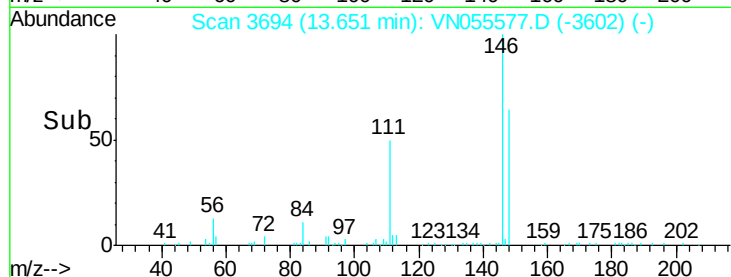
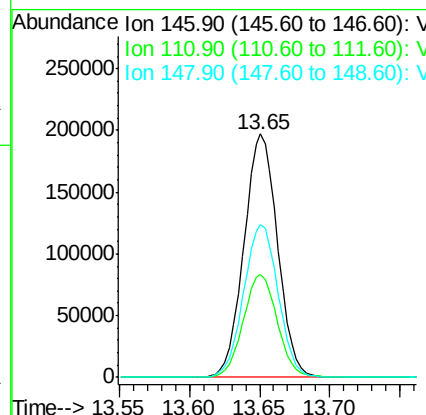
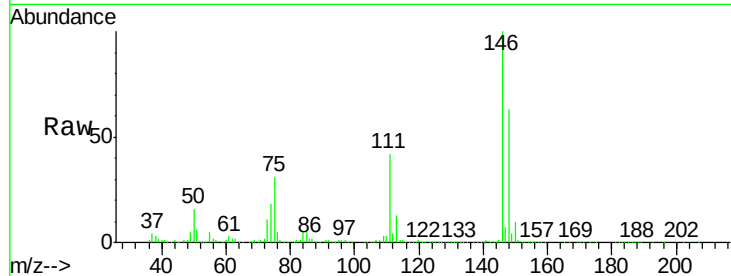
#91
 1,2-Dichlorobenzene
 Concen: 20.083 ug/l
 RT: 13.65 min Scan# 3694
 Delta R.T. -0.00 min
 Lab File: VN055577.D
 Acq: 13 May 2019 15:28

Instrument :
 MSVOA_N
 ClientSampled :
 VN0513WBSD01

Tot Ion	Ratio	Lower	Upper
146	100		
111	42.2	21.3	63.7
148	64.6	31.9	95.9

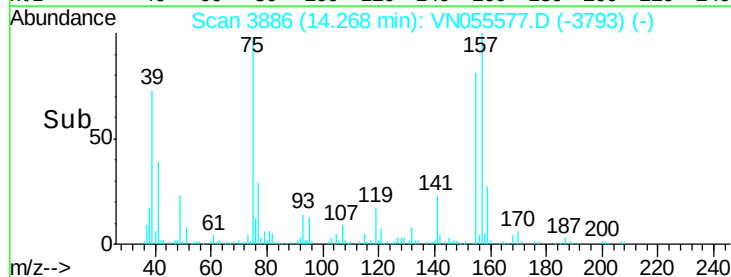
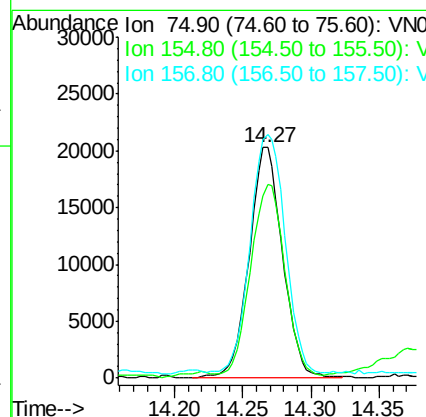
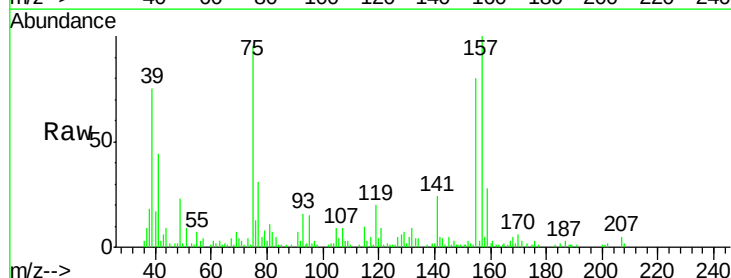
Manual Integrations
 APPROVED

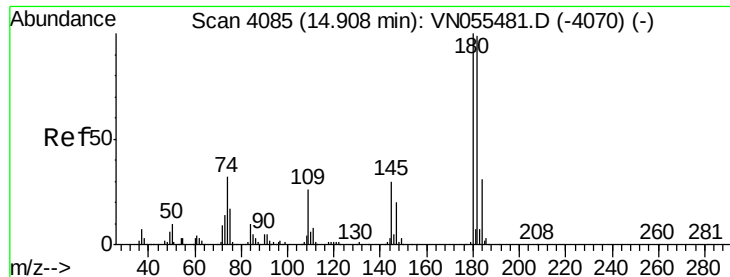
MMDadoda
 5/14/2019 9:42:45 AM



#92
 1,2-Dibromo-3-Chloropropane
 Concen: 15.672 ug/l
 RT: 14.27 min Scan# 3886
 Delta R.T. -0.00 min
 Lab File: VN055577.D
 Acq: 13 May 2019 15:28

Tgt Ion	Ratio	Lower	Upper
75	100		
155	83.1	39.3	117.8
157	106.7	50.6	151.8





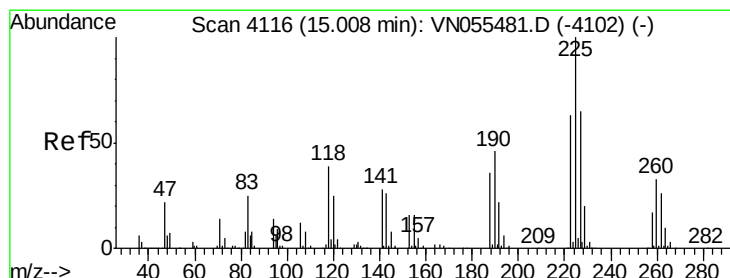
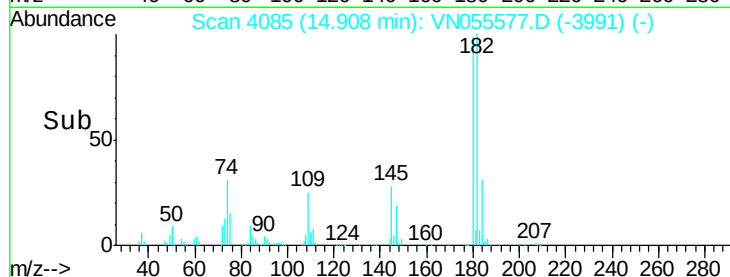
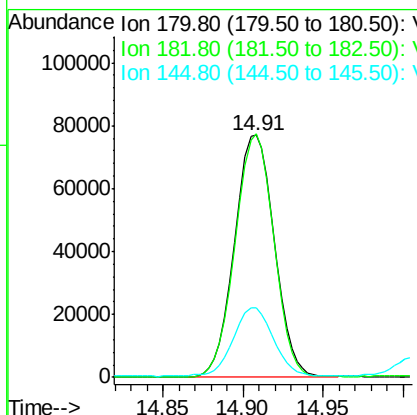
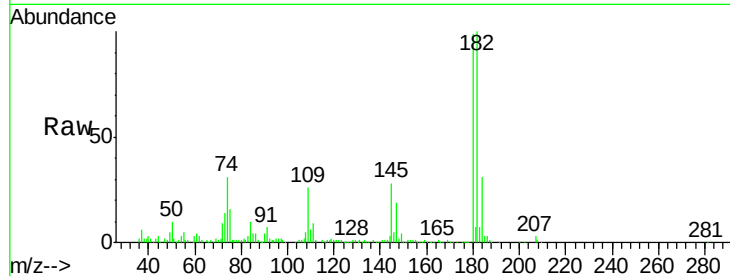
#93
 1,2,4-Trichlorobenzene
 Concen: 20.461 ug/l
 RT: 14.91 min Scan# 4085
 Delta R.T. 0.00 min
 Lab File: VN055577.D
 Acq: 13 May 2019 15:28

Instrument :
 MSVOA_N
 ClientSampleId :
 VN0513WBSD01

Tot Ion	Ratio	Resp	Lower	Upper
180	100	131531		
182	97.4	48.7	146.1	
145	28.6	15.3	45.9	

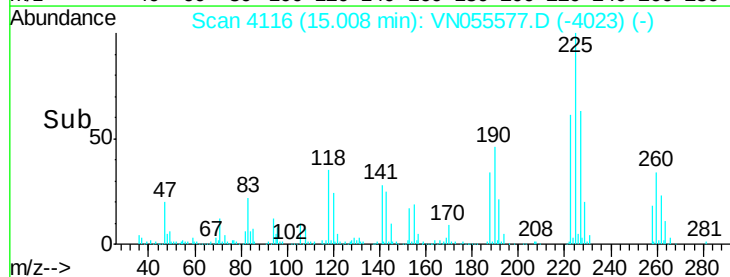
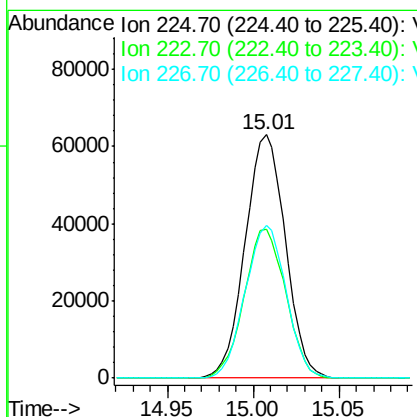
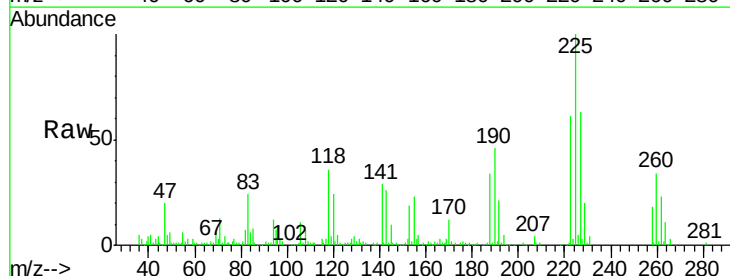
Manual Integrations
 APPROVED

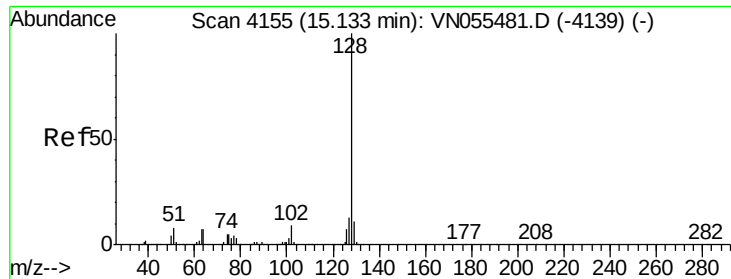
MMDadoda
 5/14/2019 9:42:45 AM



#94
 Hexachlorobutadiene
 Concen: 19.781 ug/l
 RT: 15.01 min Scan# 4116
 Delta R.T. 0.00 min
 Lab File: VN055577.D
 Acq: 13 May 2019 15:28

Tgt Ion	Ratio	Resp	Lower	Upper
225	100	102734		
223	63.0	31.4	94.3	
227	63.7	32.0	96.0	





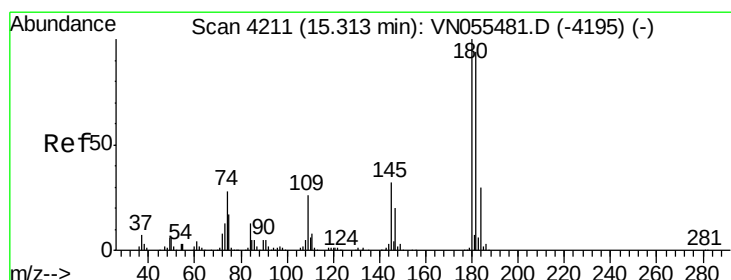
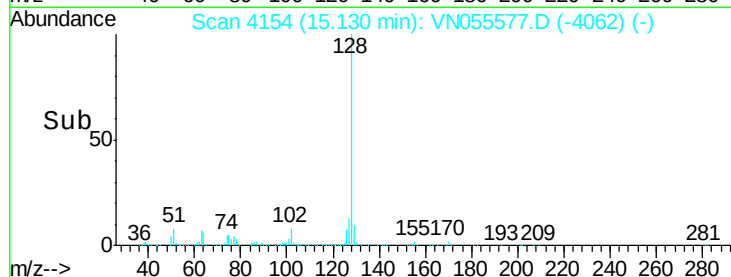
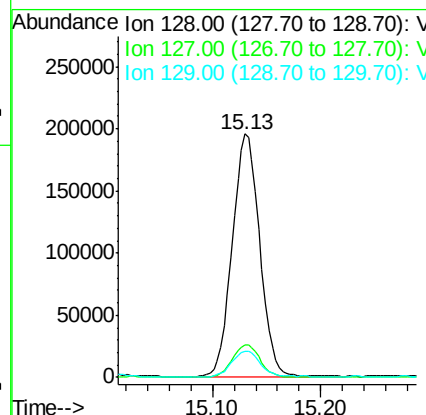
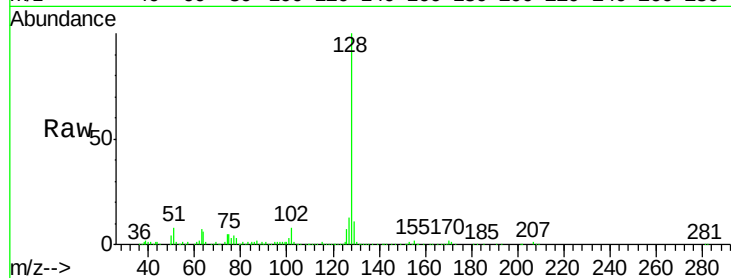
#95
Naphthalene
Concen: 19.197 ug/l
RT: 15.13 min Scan# 4154
Delta R.T. -0.00 min
Lab File: VN055577.D
Acq: 13 May 2019 15:28

Instrument :
MSVOA_N
ClientSampleId :
VN0513WBSD01

Tot Ion	Ratio	Resp	Lower	Upper
128	100	346730		
127	13.1	10.0	15.0	
129	10.8	8.8	13.2	

Manual Integrations
APPROVED

MMDadoda
5/14/2019 9:42:45 AM



#96
1,2,3-Trichlorobenzene
Concen: 20.115 ug/l
RT: 15.31 min Scan# 4211
Delta R.T. -0.00 min
Lab File: VN055577.D
Acq: 13 May 2019 15:28

Tgt Ion	Ratio	Resp	Lower	Upper
180	100	143630		
182	96.6	47.1	141.3	
145	32.3	15.8	47.4	

