

Data Path : Z:\VOASRV\HPCHEM1\MSVOA N\DATA\VN060719\
 Data File : VN056056.D
 Acq On : 6 Jun 2019 19:32
 Operator : JC/SP
 Sample : K3203-14MSD
 Misc : 5.00mL/MSVOA N/WATER
 ALS Vial : 27 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 LF015RW050-190604MSD

Manual Integrations
 APPROVED

MMDadoda
 6/7/2019 9:37:05 AM

Quant Time: Jun 07 06:35:03 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_N\METHODS\82N060419W.M
 Quant Title : SW846 8260
 QLast Update : Tue Jun 04 11:02:09 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	7.66	168	289505	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	8.58	114	440237	50.00	ug/l	0.00
63) Chlorobenzene-d5	11.41	117	396773	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.34	152	179460	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	157299	54.72	ug/l	0.00
Spiked Amount 50.000			Recovery =	109.44%		
35) Dibromofluoromethane	7.59	113	140997	52.20	ug/l	0.00
Spiked Amount 50.000			Recovery =	104.40%		
50) Toluene-d8	10.09	98	541127	52.06	ug/l	0.00
Spiked Amount 50.000			Recovery =	104.12%		
62) 4-Bromofluorobenzene	12.40	95	184606	52.23	ug/l	0.00
Spiked Amount 50.000			Recovery =	104.46%		

Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
2) Dichlorodifluoromethane	1.85	85	162223	50.998	ug/l	99
3) Chloromethane	2.06	50	170116	54.207	ug/l	99
4) Vinyl Chloride	2.18	62	180310	57.279	ug/l	99
5) Bromomethane	2.52	94	99102	49.837	ug/l	98
6) Chloroethane	2.68	64	85379	46.779	ug/l	98
7) Trichlorofluoromethane	3.00	101	206070	51.278	ug/l	100
8) Diethyl Ether	3.40	74	85407	51.679	ug/l	98
9) 1,1,2-Trichlorotrifluoroet	3.74	101	127116	52.071	ug/l	99
10) Methyl Iodide	3.94	142	187646	48.370	ug/l	99
11) Tert butyl alcohol	4.82	59	125607	251.097	ug/l	99
12) 1,1-Dichloroethene	3.72	96	127953	52.648	ug/l	97
13) Acrolein	3.60	56	34815	241.317	ug/l	99
14) Allyl chloride	4.31	41	192699	50.213	ug/l	98
15) Acrylonitrile	4.99	53	359436	295.174	ug/l	100
16) Acetone	3.82	43	282863	205.748	ug/l	100
17) Carbon Disulfide	4.04	76	291442	50.083	ug/l	100
18) Methyl Acetate	4.33	43	157482	58.413	ug/l	99
19) Methyl tert-butyl Ether	5.05	73	417865	53.940	ug/l	100
20) Methylene Chloride	4.54	84	150706	53.207	ug/l	97
21) trans-1,2-Dichloroethene	5.03	96	138170	53.060	ug/l	95
22) Diisopropyl ether	5.95	45	430152	54.223	ug/l	99
23) Vinyl Acetate	5.90	43	1789669	286.473	ug/l	100
24) 1,1-Dichloroethane	5.84	63	245151	53.573	ug/l	99
25) 2-Butanone	6.84	43	469422	270.246	ug/l	99
26) 2,2-Dichloropropane	6.82	77	137854	38.606	ug/l	96
27) cis-1,2-Dichloroethene	6.83	96	164876	53.864	ug/l	96
28) Bromochloromethane	7.19	49	118601	54.806	ug/l	99
29) Tetrahydrofuran	7.22	42	315201	293.559	ug/l	100
30) Chloroform	7.37	83	246965	53.649	ug/l	99
31) Cyclohexane	7.65	56	226624	49.684	ug/l	97
32) 1,1,1-Trichloroethane	7.57	97	202590	52.701	ug/l	100
36) 1,1-Dichloropropene	7.79	75	182699	48.264	ug/l	99
37) Ethyl Acetate	6.93	43	190965	56.698	ug/l	99
38) Carbon Tetrachloride	7.77	117	170647	48.897	ug/l	97

Data Path : Z:\VOASRV\HPCHEM1\MSVOA N\DATA\VN060719\
 Data File : VN056056.D
 Acq On : 6 Jun 2019 19:32
 Operator : JC/SP
 Sample : K3203-14MSD
 Misc : 5.00mL/MSVOA N/WATER
 ALS Vial : 27 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleID :
 LF015RW050-190604MSD

Manual Integrations
 APPROVED

MMDadoda
 6/7/2019 9:37:05 AM

Quant Time: Jun 07 06:35:03 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_N\METHODS\82N060419W.M
 Quant Title : SW846 8260
 QLast Update : Tue Jun 04 11:02:09 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
39) Methylcyclohexane	9.08	83	222539	47.193	ug/l	99
40) Benzene	8.04	78	623490	54.230	ug/l	100
41) Methacrylonitrile	7.18	41	89246	57.591	ug/l	95
42) 1,2-Dichloroethane	8.12	62	185983	50.289	ug/l	100
43) Isopropyl Acetate	8.17	43	294788	54.011	ug/l	93
44) Trichloroethene	8.83	130	162048	49.051	ug/l	99
45) 1,2-Dichloropropane	9.12	63	153513	52.128	ug/l	99
46) Dibromomethane	9.21	93	100230	52.047	ug/l	99
47) Bromodichloromethane	9.40	83	180816	51.806	ug/l	98
48) Methyl methacrylate	9.20	41	147184	55.122	ug/l	96
49) 1,4-Dioxane	9.21	88	61434	1065.716	ug/l	95
51) 4-Methyl-2-Pentanone	9.99	43	939054	275.132	ug/l	99
52) Toluene	10.16	92	370915	51.845	ug/l	98
53) t-1,3-Dichloropropene	10.38	75	186479	45.783	ug/l	98
54) cis-1,3-Dichloropropene	9.84	75	218576	52.100	ug/l	97
55) 1,1,2-Trichloroethane	10.56	97	149629	52.799	ug/l	98
56) Ethyl methacrylate	10.43	69	225673	54.585	ug/l	99
57) 1,3-Dichloropropane	10.71	76	243606	52.878	ug/l	100
58) 2-Chloroethyl Vinyl ether	9.70	63	402090	245.574	ug/l	100
59) 2-Hexanone	10.75	43	655644	265.041	ug/l	100
60) Dibromochloromethane	10.90	129	146601	47.056	ug/l	99
61) 1,2-Dibromoethane	11.00	107	156038	53.860	ug/l	99
64) Tetrachloroethene	10.63	164	156434	45.548	ug/l	98
65) Chlorobenzene	11.43	112	774813	98.120	ug/l	99
66) 1,1,1,2-Tetrachloroethane	11.51	131	142911	52.414	ug/l	99
67) Ethyl Benzene	11.51	91	686113	49.969	ug/l	98
68) m/p-Xylenes	11.62	106	525770	100.236	ug/l	99
69) o-Xylene	11.95	106	260409	50.470	ug/l	99
70) Styrene	11.96	104	433037	52.823	ug/l	100
71) Bromoform	12.13	173	103922	45.650	ug/l #	98
73) Isopropylbenzene	12.25	105	675940	52.986	ug/l	100
74) N-amyl acetate	12.07	43	244390	51.087	ug/l	97
75) 1,1,2,2-Tetrachloroethane	12.50	83	207420	49.788	ug/l	100
76) 1,2,3-Trichloropropane	12.55	75	167565m	50.744	ug/l	
77) Bromobenzene	12.53	156	183878	47.857	ug/l	97
78) n-propylbenzene	12.59	91	724471	47.718	ug/l	99
79) 2-Chlorotoluene	12.67	91	447779	53.328	ug/l	100
80) 1,3,5-Trimethylbenzene	12.73	105	560246	46.431	ug/l	99
81) trans-1,4-Dichloro-2-buten	12.30	75	46629	47.025	ug/l	91
82) 4-Chlorotoluene	12.77	91	434791	48.950	ug/l	100
83) tert-Butylbenzene	12.99	119	488902	52.350	ug/l	100
84) 1,2,4-Trimethylbenzene	13.04	105	553439	48.368	ug/l	99
85) sec-Butylbenzene	13.17	105	632749	47.061	ug/l	100
86) p-Isopropyltoluene	13.29	119	573866	47.691	ug/l	100
87) 1,3-Dichlorobenzene	13.28	146	300916	50.603	ug/l	100
88) 1,4-Dichlorobenzene	13.36	146	309654	54.132	ug/l	100
89) n-Butylbenzene	13.61	91	427983	48.013	ug/l	99
90) Hexachloroethane	13.88	117	87546	48.243	ug/l	97
91) 1,2-Dichlorobenzene	13.65	146	321734	53.589	ug/l	100
92) 1,2-Dibromo-3-Chloropropan	14.27	75	32957	55.309	ug/l	97

Data Path : Z:\VOASRV\HPCHEM1\MSVOA N\DATA\VN060719\
Data File : VN056056.D
Acq On : 6 Jun 2019 19:32
Operator : JC/SP
Sample : K3203-14MSD
Misc : 5.00mL/MSVOA N/WATER
ALS Vial : 27 Sample Multiplier: 1

Instrument :
MSVOA_N
ClientSampleId :
LF015RW050-190604MSD

Manual Integrations
APPROVED

MMDadoda
6/7/2019 9:37:05 AM

Quant Time: Jun 07 06:35:03 2019
Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_N\METHODS\82N060419W.M
Quant Title : SW846 8260
QLast Update : Tue Jun 04 11:02:09 2019
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
93) 1,2,4-Trichlorobenzene	14.91	180	152576	46.449	ug/l	99
94) Hexachlorobutadiene	15.01	225	101551	49.287	ug/l	99
95) Naphthalene	15.13	128	423707	49.411	ug/l	100
96) 1,2,3-Trichlorobenzene	15.31	180	167269	49.633	ug/l	99

(#) = 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: VN056056.D

Acq: 6 Jun 2019 19:32

Instrument :

MSVOA_N

ClientSampleId :

LF015RW050-190604MSD

Tot Ion:168 Resp: 289505

Ion Ratio Lower Upper

168 100

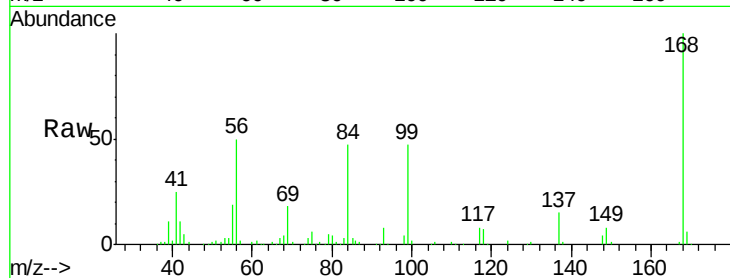
99 46.0 37.2 55.8

Manual Integrations

APPROVED

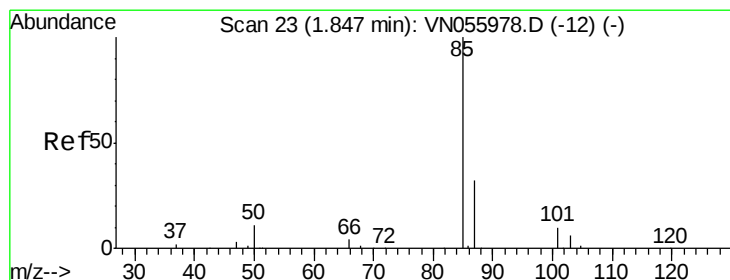
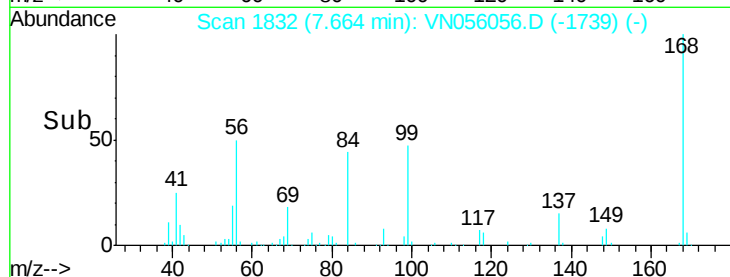
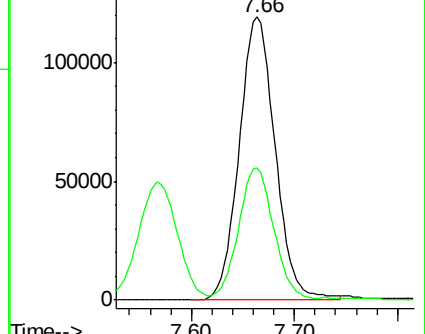
MMDadoda

6/7/2019 9:37:05 AM



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VNO



#2

Dichlorodifluoromethane

Concen: 50.998 ug/l

RT: 1.85 min Scan# 23

Delta R.T. 0.00 min

Lab File: VN056056.D

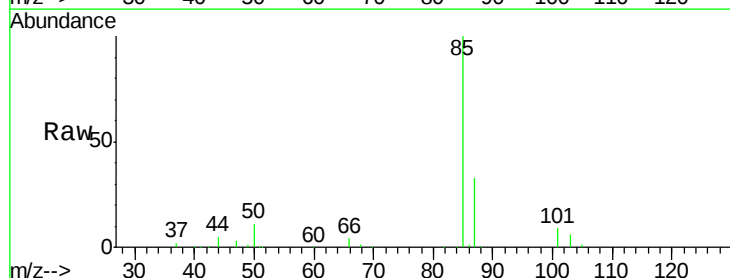
Acq: 6 Jun 2019 19:32

Tgt Ion: 85 Resp: 162223

Ion Ratio Lower Upper

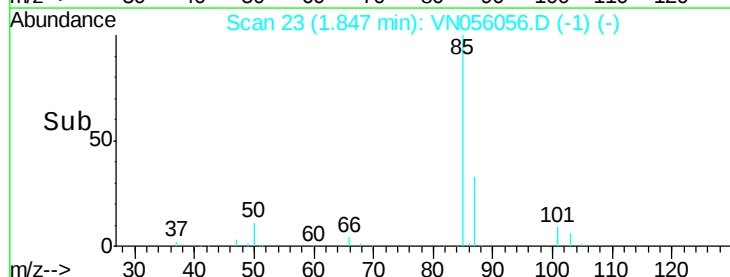
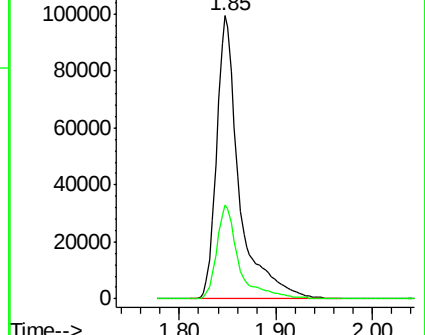
85 100

87 33.0 16.1 48.3



Abundance Ion 84.90 (84.60 to 85.60): VNO

Ion 86.90 (86.60 to 87.60): VNO





#3

Chloromethane

Concen: 54.207 ug/l

RT: 2.06 min Scan# 89

Delta R.T. -0.00 min

Lab File: VN056056.D

Acq: 6 Jun 2019 19:32

Instrument :

MSVOA_N

ClientSampleId :

LF015RW050-190604MSD

Tot Ion: 50 Resp: 170116

Ion Ratio Lower Upper

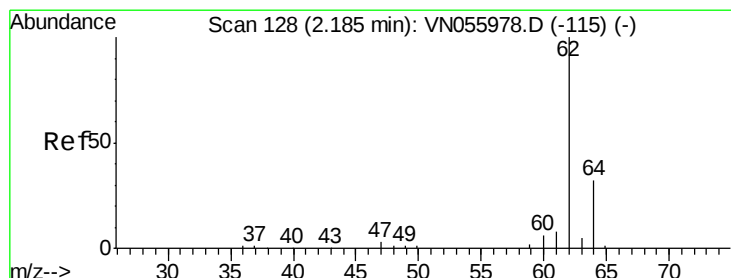
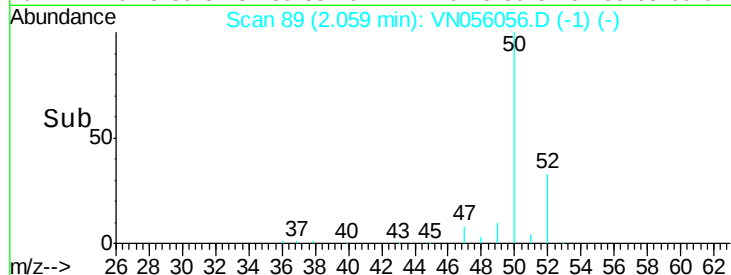
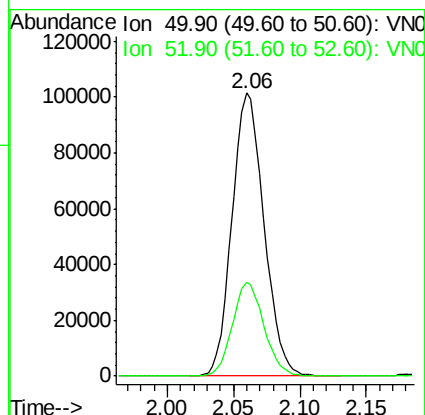
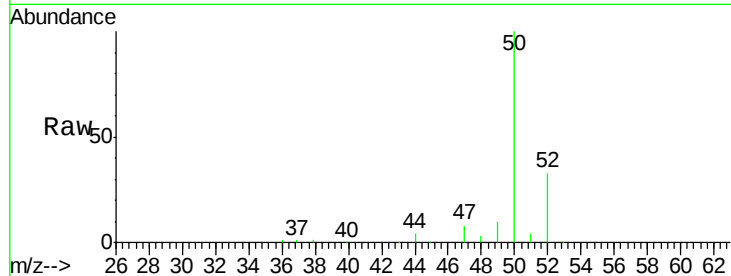
50 100

52 33.0 26.6 40.0

Manual Integrations
APPROVED

MMDadoda

6/7/2019 9:37:05 AM



#4

Vinyl Chloride

Concen: 57.279 ug/l

RT: 2.18 min Scan# 128

Delta R.T. -0.00 min

Lab File: VN056056.D

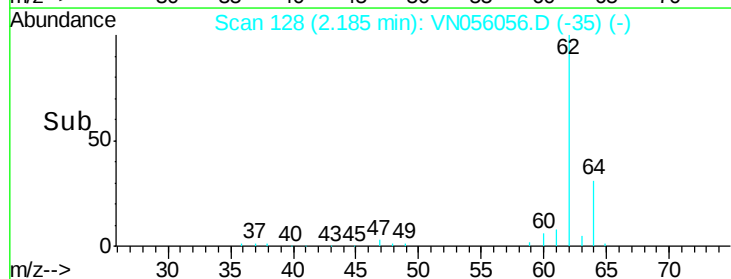
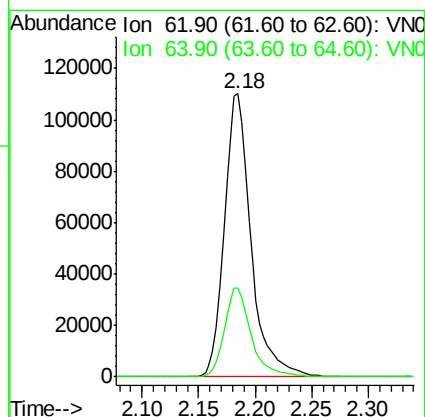
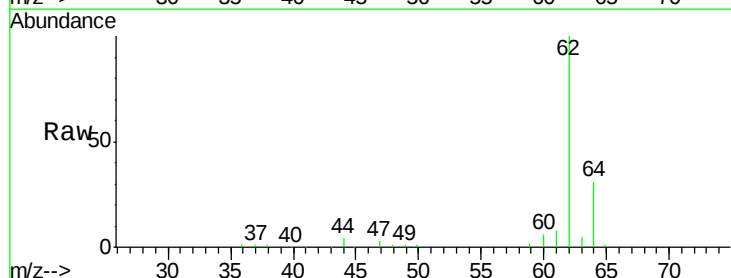
Acq: 6 Jun 2019 19:32

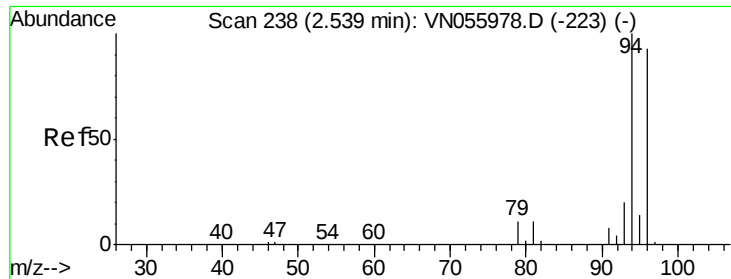
Tgt Ion: 62 Resp: 180310

Ion Ratio Lower Upper

62 100

64 31.4 25.6 38.4





#5

Bromomethane

Concen: 49.837 ug/l

RT: 2.52 min Scan# 233

Delta R.T. -0.02 min

Lab File: VN056056.D

Acq: 6 Jun 2019 19:32

Instrument :

MSVOA_N

ClientSampleId :

LF015RW050-190604MSD

Tot Ion: 94 Resp: 99102

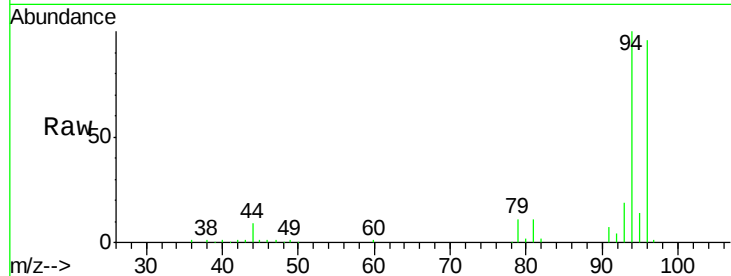
Ion Ratio Lower Upper

94 100

96 95.9 75.5 113.3

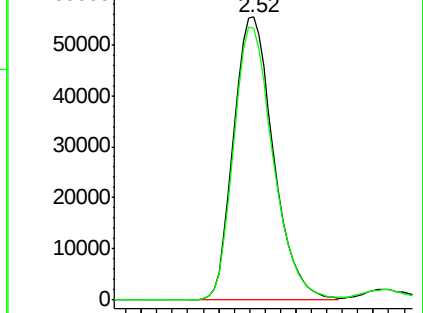
Manual Integrations
APPROVED

MMDadoda
6/7/2019 9:37:05 AM

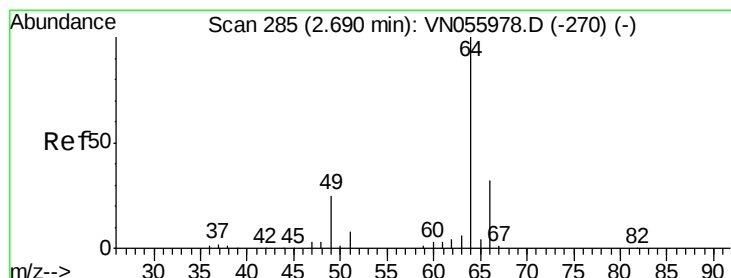
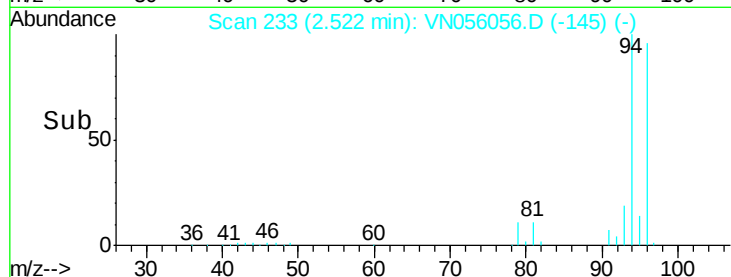


Abundance Ion 93.90 (93.60 to 94.60): VN0

Ion 95.90 (95.60 to 96.60): VN0



Time-->



#6

Chloroethane

Concen: 46.779 ug/l

RT: 2.68 min Scan# 281

Delta R.T. -0.01 min

Lab File: VN056056.D

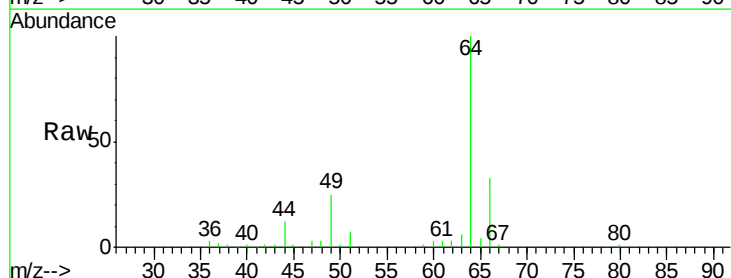
Acq: 6 Jun 2019 19:32

Tgt Ion: 64 Resp: 85379

Ion Ratio Lower Upper

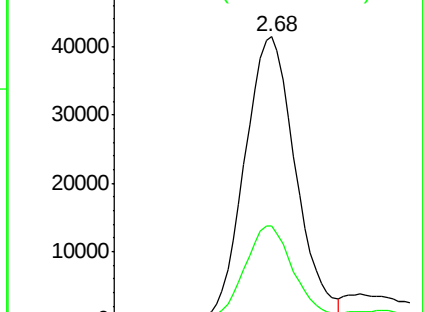
64 100

66 33.1 25.4 38.0

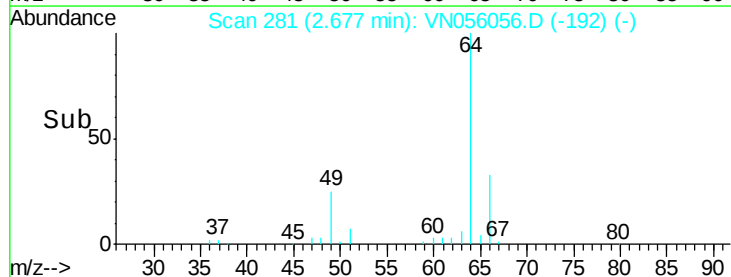


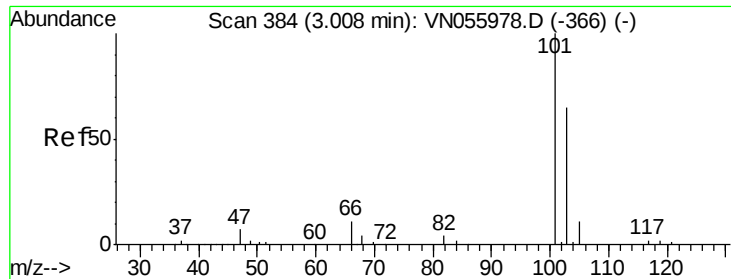
Abundance Ion 63.90 (63.60 to 64.60): VN0

Ion 65.90 (65.60 to 66.60): VN0



Time-->





#7

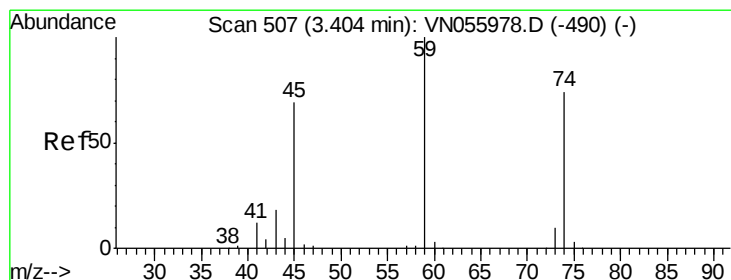
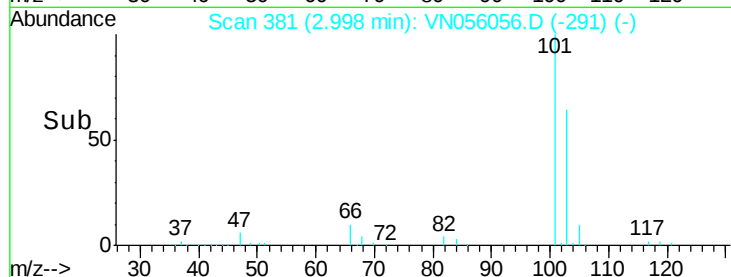
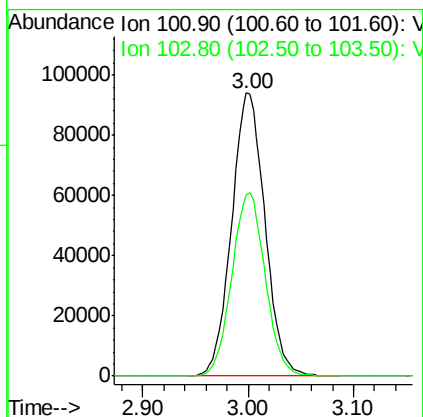
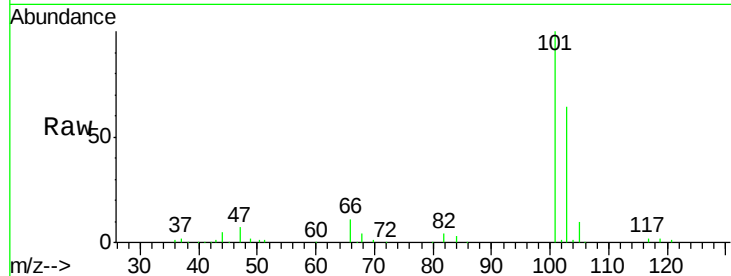
Trichlorofluoromethane
 Concen: 51.278 ug/l
 RT: 3.00 min Scan# 381
 Delta R.T. -0.01 min
 Lab File: VN056056.D
 Acq: 6 Jun 2019 19:32

Instrument :
 MSVOA_N
 ClientSampleId :
 LF015RW050-190604MSD

Tot Ion:101 Resp: 206070
 Ion Ratio Lower Upper
 101 100
 103 64.0 51.2 76.8

Manual Integrations
 APPROVED

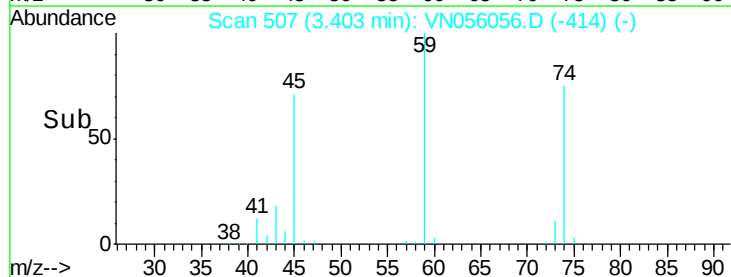
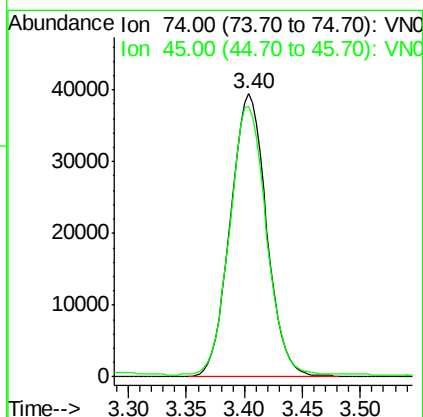
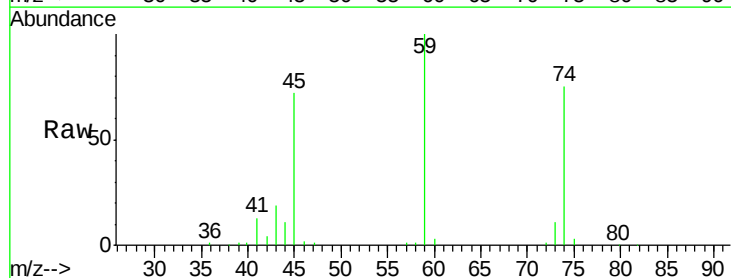
MMDadoda
 6/7/2019 9:37:05 AM



#8

Diethyl Ether
 Concen: 51.679 ug/l
 RT: 3.40 min Scan# 507
 Delta R.T. -0.00 min
 Lab File: VN056056.D
 Acq: 6 Jun 2019 19:32

Tgt Ion: 74 Resp: 85407
 Ion Ratio Lower Upper
 74 100
 45 95.5 48.6 145.9





#9

1,1,2-Trichlorotrifluoroethane

Concen: 52.071 ug/l

RT: 3.74 min Scan# 611

Delta R.T. -0.01 min

Lab File: VN056056.D

Acq: 6 Jun 2019 19:32

Instrument :

MSVOA_N

ClientSampleId :

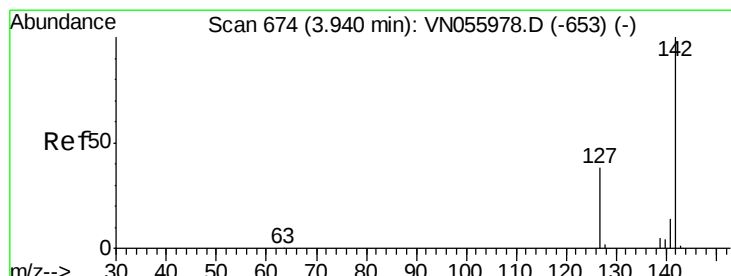
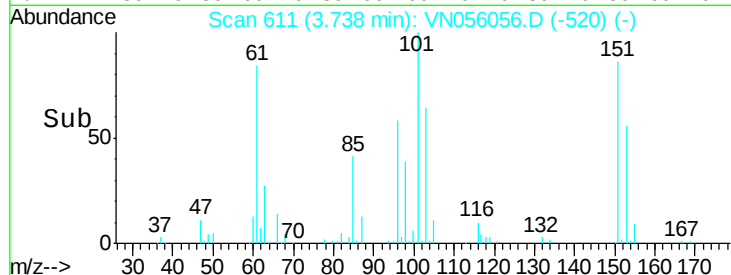
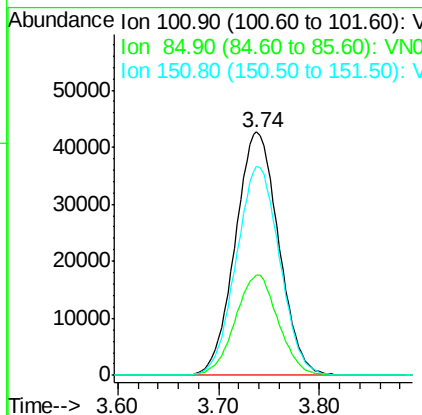
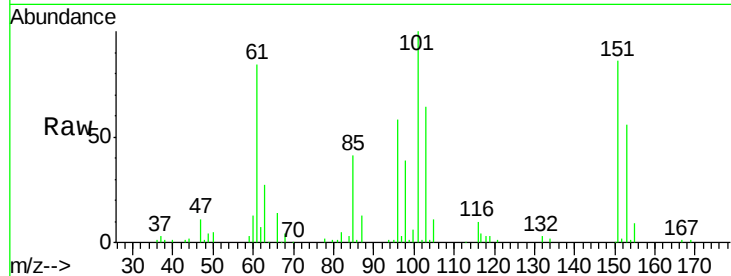
LF015RW050-190604MSD

Tot Ion:	101	Resp:	127116
Ion Ratio	Lower	Upper	
101	100		
85	40.8	33.4	50.2
151	86.3	69.4	104.2

Manual Integrations
APPROVED

MMDadoda

6/7/2019 9:37:05 AM



#10

Methyl Iodide

Concen: 48.370 ug/l

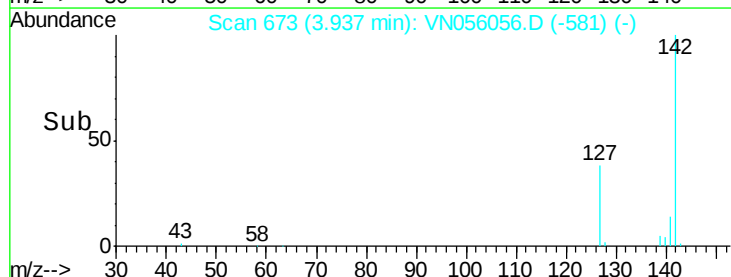
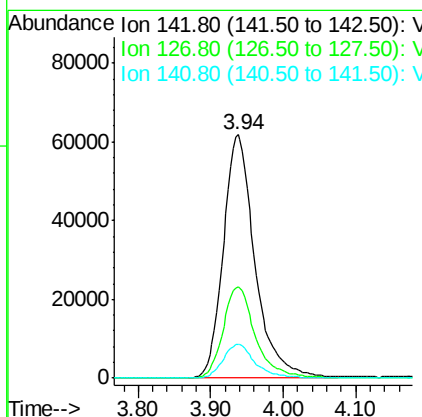
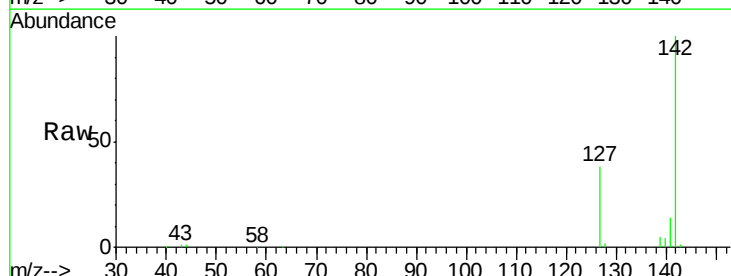
RT: 3.94 min Scan# 673

Delta R.T. -0.00 min

Lab File: VN056056.D

Acq: 6 Jun 2019 19:32

Tgt Ion:	142	Resp:	187646
Ion Ratio	Lower	Upper	
142	100		
127	38.0	31.0	46.4
141	13.9	11.4	17.0





#11

Tert butyl alcohol
Concen: 251.097 ug/l
RT: 4.82 min Scan# 947
Delta R.T. 0.01 min
Lab File: VN056056.D
Acq: 6 Jun 2019 19:32

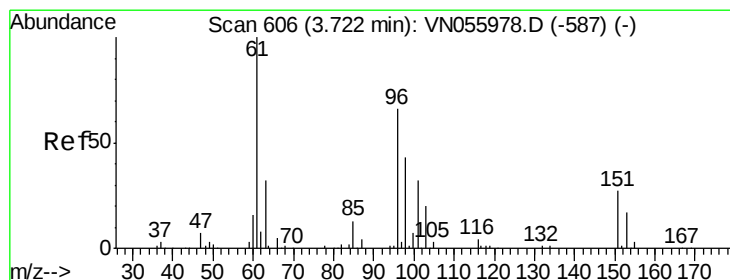
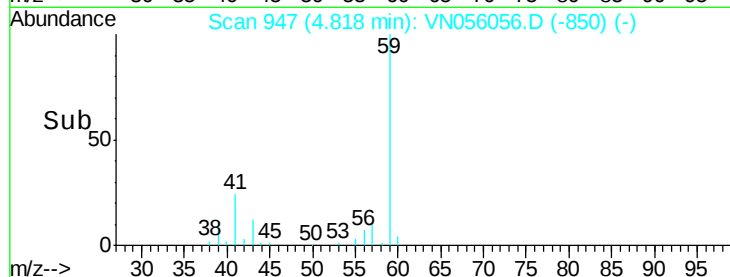
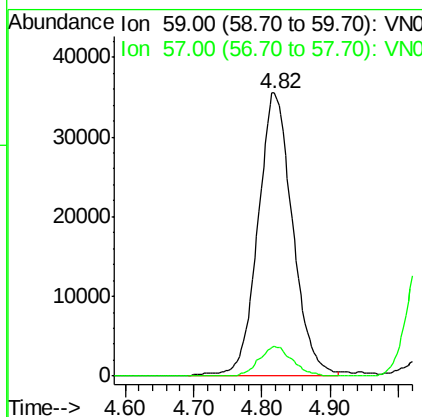
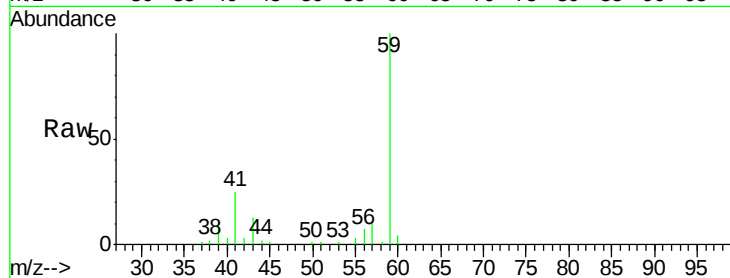
Instrument :
MSVOA_N
ClientSampleId :
LF015RW050-190604MSD

Tot Ion	Ratio	Lower	Upper
59	100		
57	10.1	7.8	11.6

Manual Integrations
APPROVED

MMDadoda

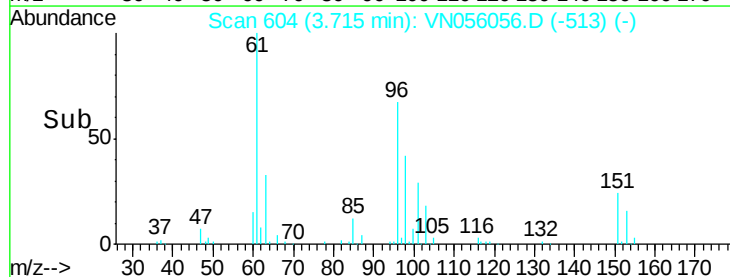
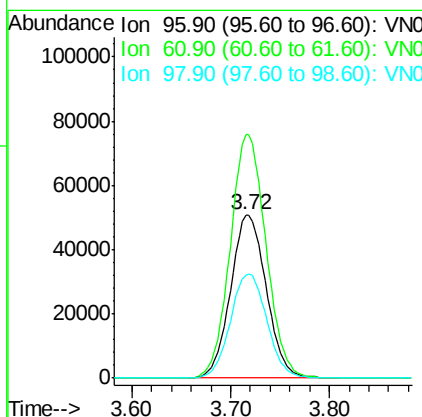
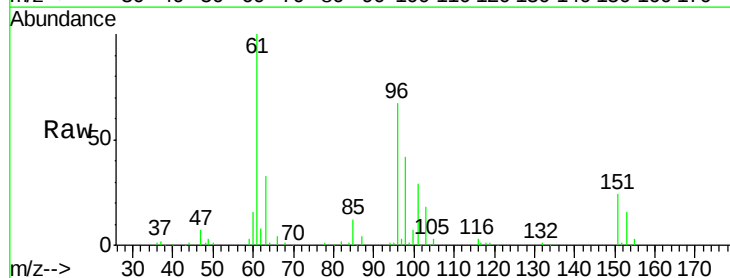
6/7/2019 9:37:05 AM

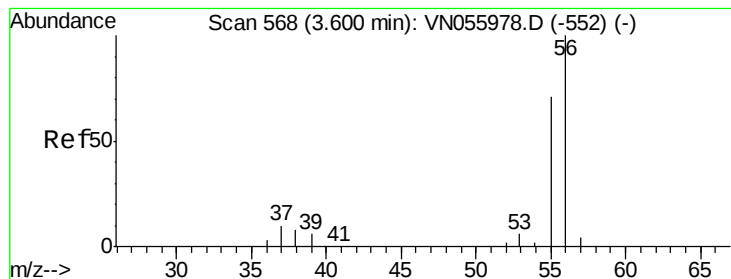


#12

1,1-Dichloroethene
Concen: 52.648 ug/l
RT: 3.72 min Scan# 604
Delta R.T. -0.01 min
Lab File: VN056056.D
Acq: 6 Jun 2019 19:32

Tgt Ion	Ratio	Lower	Upper
96	100		
61	149.1	123.2	184.8
98	63.0	50.4	75.6





#13

Acrolein

Concen: 241.317 ug/l

RT: 3.60 min Scan# 568

Delta R.T. -0.00 min

Lab File: VN056056.D

Acq: 6 Jun 2019 19:32

Instrument :

MSVOA_N

ClientSampleId :

LF015RW050-190604MSD

Tot Ion: 56 Resp: 34815

Ion Ratio Lower Upper

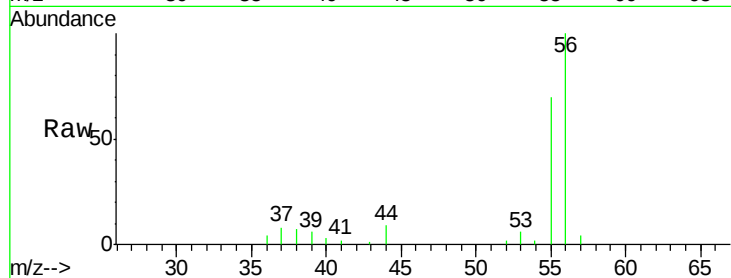
56 100

55 69.8 55.4 83.2

Manual Integrations
APPROVED

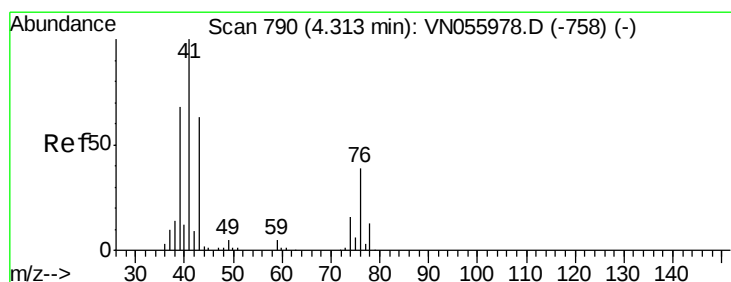
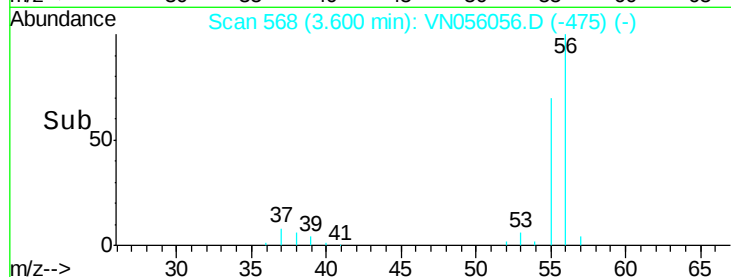
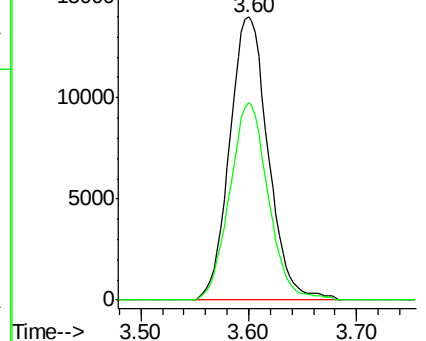
MMDadoda

6/7/2019 9:37:05 AM



Abundance Ion 56.00 (55.70 to 56.70): VN0

Ion 55.00 (54.70 to 55.70): VN0



#14

Allyl chloride

Concen: 50.213 ug/l

RT: 4.31 min Scan# 789

Delta R.T. -0.00 min

Lab File: VN056056.D

Acq: 6 Jun 2019 19:32

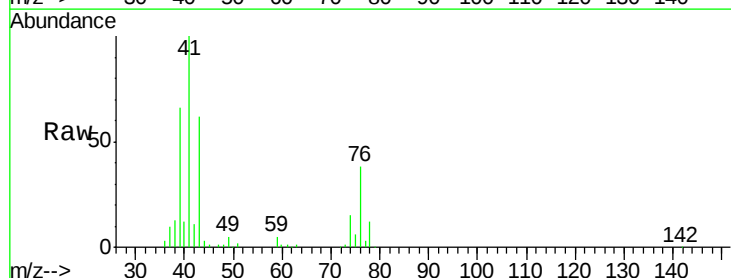
Tgt Ion: 41 Resp: 192699

Ion Ratio Lower Upper

41 100

39 60.5 50.0 75.0

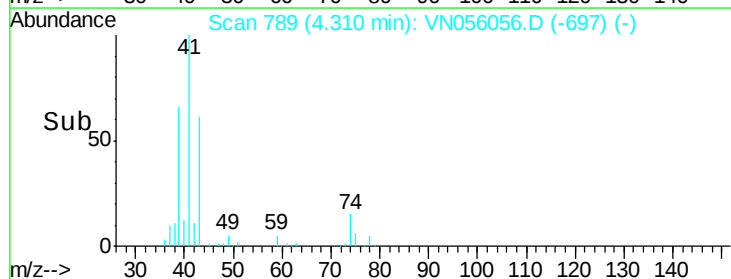
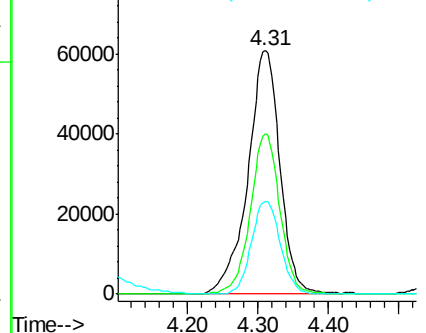
76 34.2 28.2 42.2

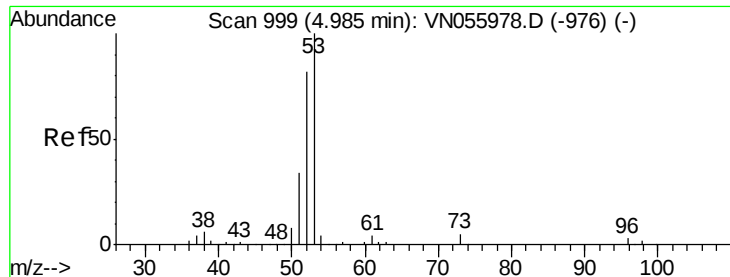


Abundance Ion 41.00 (40.70 to 41.70): VN0

Ion 39.00 (38.70 to 39.70): VN0

Ion 75.90 (75.60 to 76.60): VN0





#15

Acrylonitrile

Concen: 295.174 ug/l

RT: 4.99 min Scan# 1000

Delta R.T. 0.00 min

Lab File: VN056056.D

Acq: 6 Jun 2019 19:32

Instrument :

MSVOA_N

ClientSampleId :

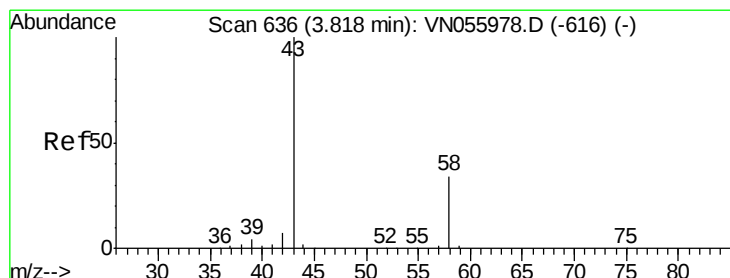
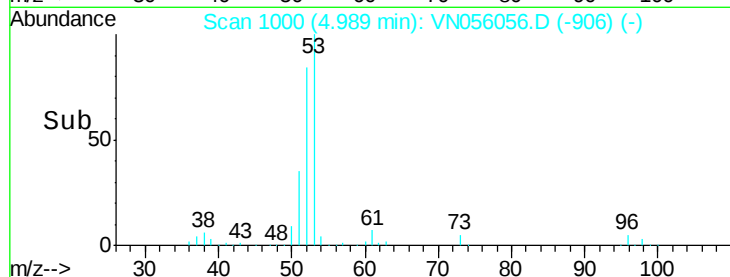
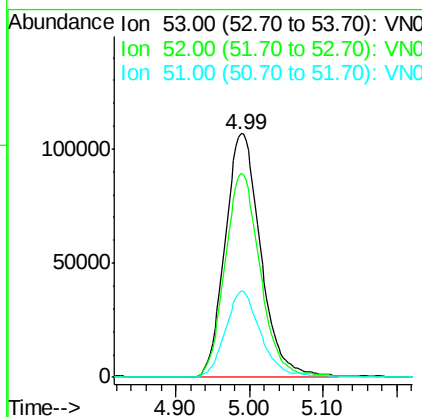
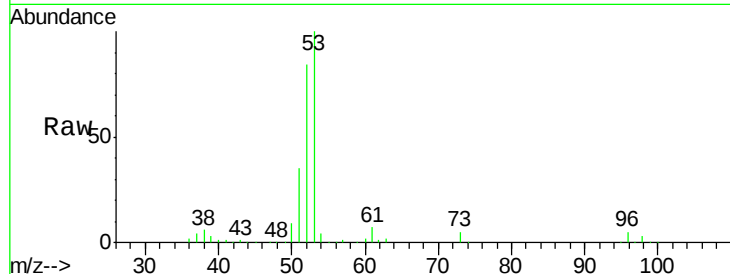
LF015RW050-190604MSD

Tot Ion:	53	Resp:	359436
Ion Ratio	Lower	Upper	
53	100		
52	82.6	65.8	98.8
51	35.2	28.2	42.4

Manual Integrations
APPROVED

MMDadoda

6/7/2019 9:37:05 AM



#16

Acetone

Concen: 205.748 ug/l

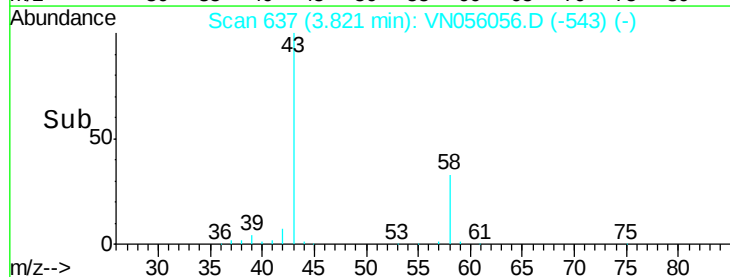
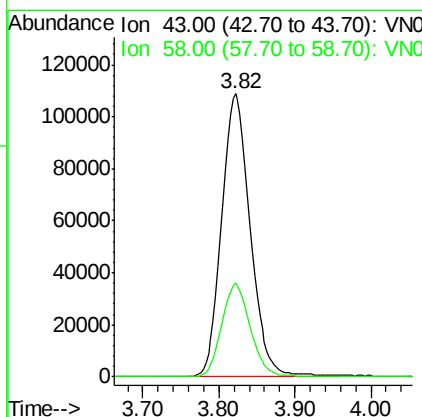
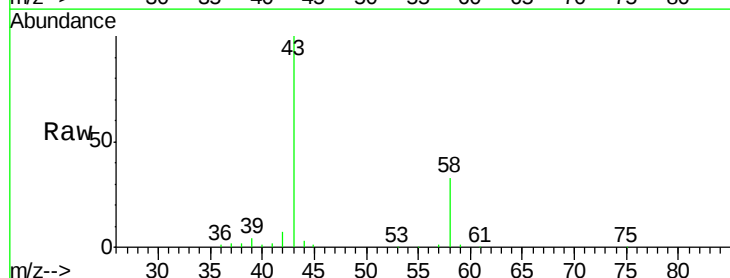
RT: 3.82 min Scan# 637

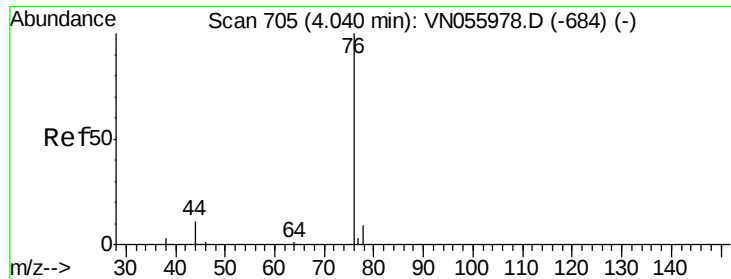
Delta R.T. 0.00 min

Lab File: VN056056.D

Acq: 6 Jun 2019 19:32

Tgt Ion:	43	Resp:	282863
Ion Ratio	Lower	Upper	
43	100		
58	33.1	26.6	39.8





#17
Carbon Disulfide
Concen: 50.083 ug/l
RT: 4.04 min Scan# 704
Delta R.T. -0.00 min
Lab File: VN056056.D
Acq: 6 Jun 2019 19:32

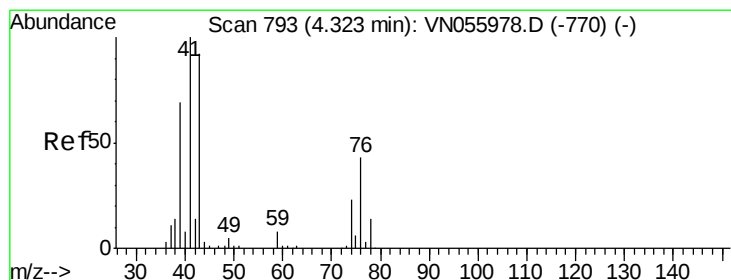
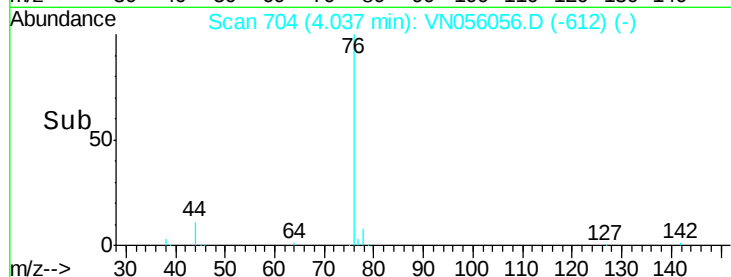
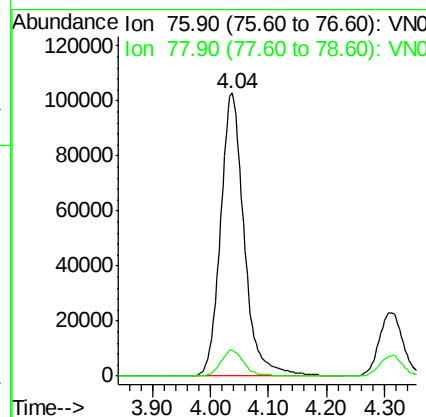
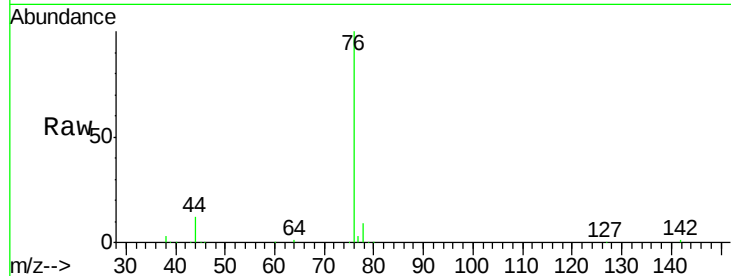
Instrument :
MSVOA_N
ClientSampleId :
LF015RW050-190604MSD

Tot Ion	Ratio	Lower	Upper
76	100		
78	9.2	7.4	11.2

Manual Integrations
APPROVED

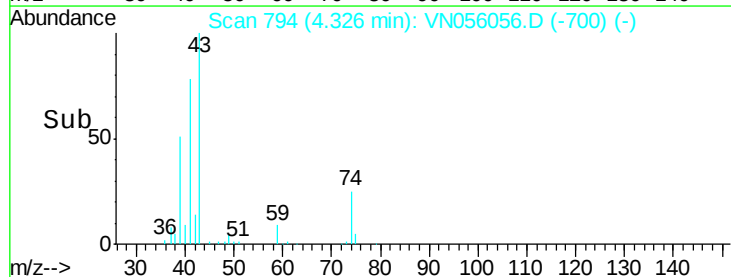
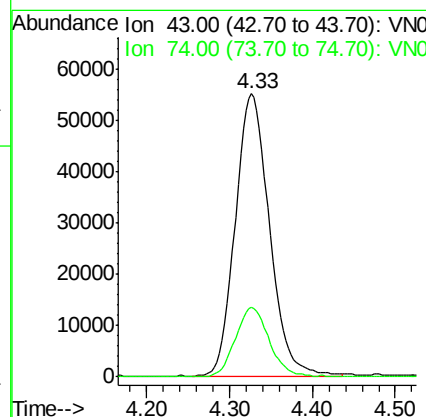
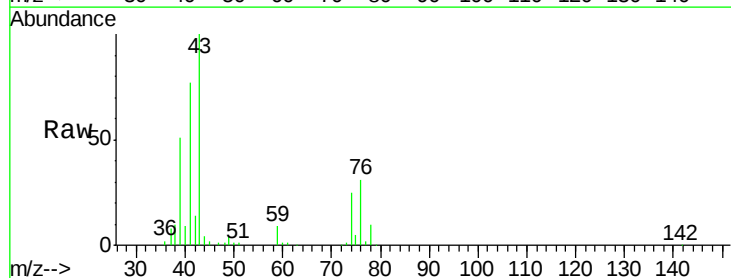
MMDadoda

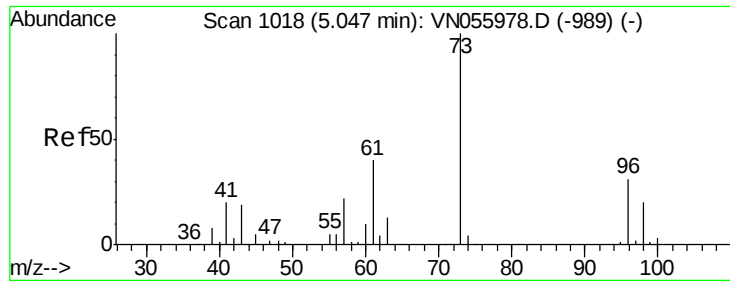
6/7/2019 9:37:05 AM



#18
Methyl Acetate
Concen: 58.413 ug/l
RT: 4.33 min Scan# 794
Delta R.T. 0.00 min
Lab File: VN056056.D
Acq: 6 Jun 2019 19:32

Tgt Ion	Ratio	Lower	Upper
43	100		
74	24.4	19.3	28.9





#19
Methvl tert-butvl Ether
Concen: 53.940 ug/l
RT: 5.05 min Scan# 1019
Delta R.T. 0.00 min
Lab File: VN056056.D
Acq: 6 Jun 2019 19:32

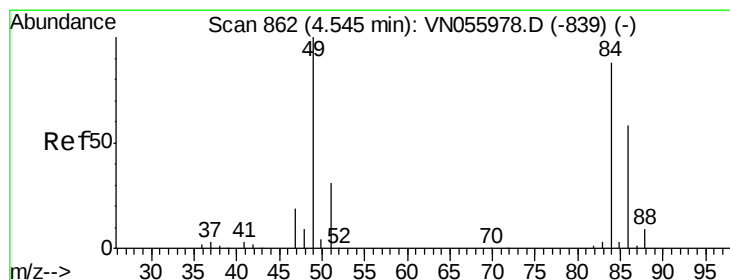
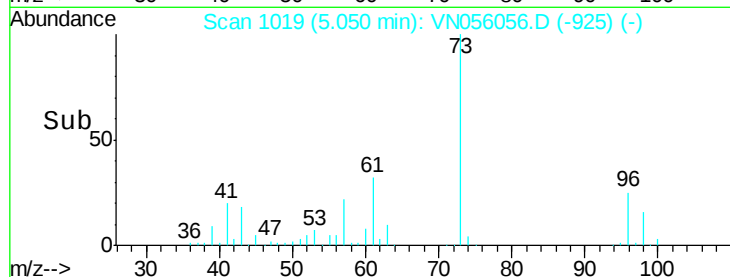
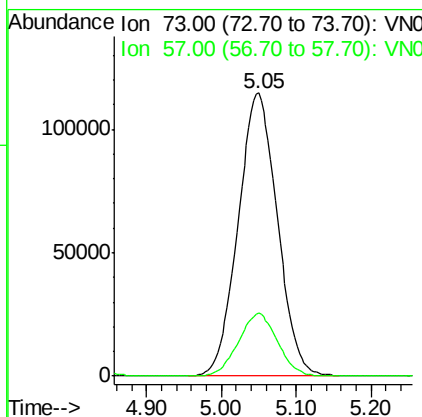
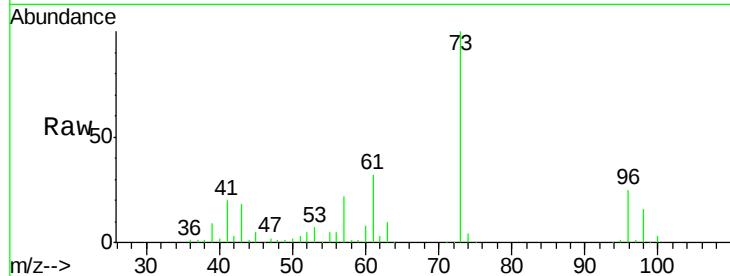
Instrument :
MSVOA_N
ClientSampleId :
LF015RW050-190604MSD

Tot Ion: 73 Resp: 417865
Ion Ratio Lower Upper
73 100
57 22.2 17.8 26.8

Manual Integrations
APPROVED

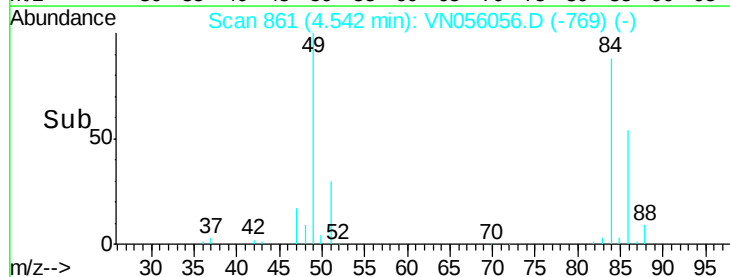
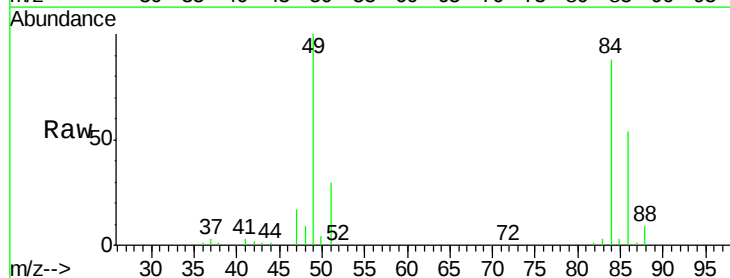
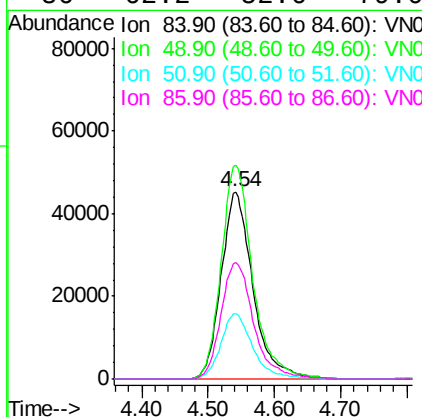
MMDadoda

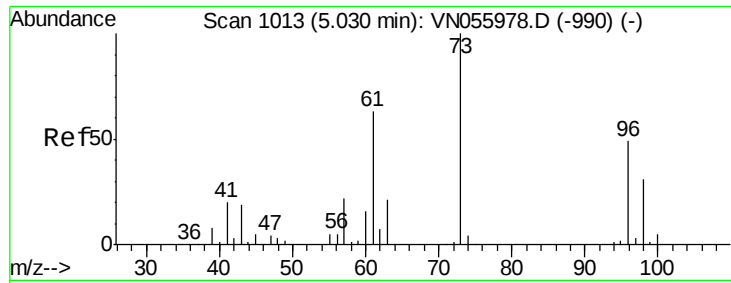
6/7/2019 9:37:05 AM



#20
Methylene Chloride
Concen: 53.207 ug/l
RT: 4.54 min Scan# 861
Delta R.T. -0.00 min
Lab File: VN056056.D
Acq: 6 Jun 2019 19:32

Tgt Ion: 84 Resp: 150706
Ion Ratio Lower Upper
84 100
49 114.2 93.5 140.3
51 34.7 28.6 43.0
86 62.2 52.6 79.0





#21
trans-1,2-Dichloroethene
Concen: 53.060 ug/l
RT: 5.03 min Scan# 1013
Delta R.T. -0.00 min
Lab File: VN056056.D
Acq: 6 Jun 2019 19:32

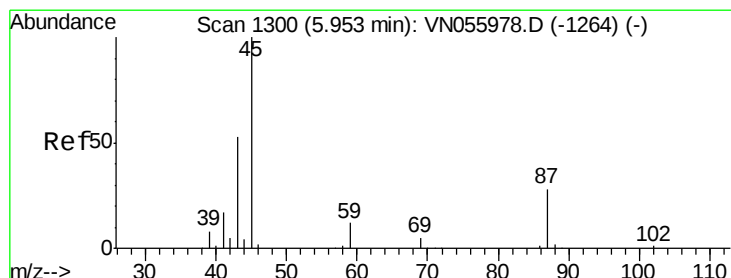
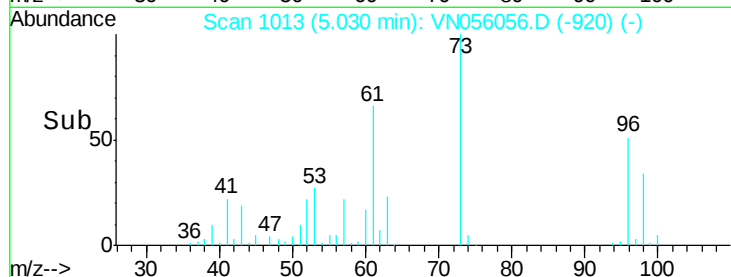
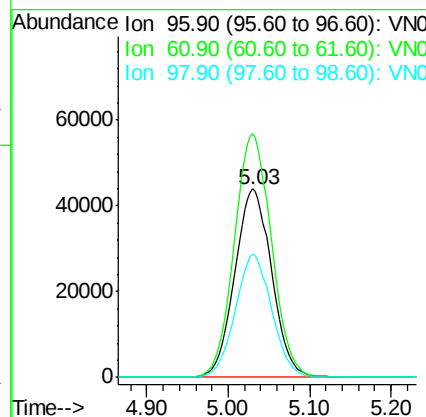
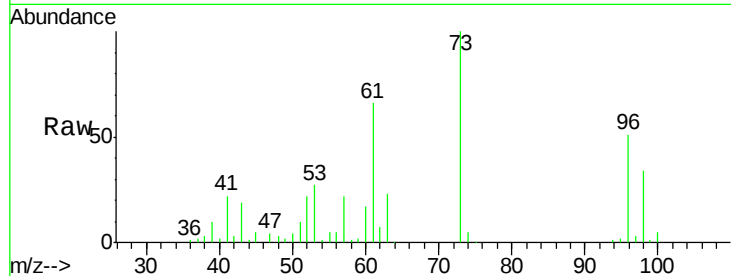
Instrument :
MSVOA_N
ClientSampleId :
LF015RW050-190604MSD

Tot Ion	Ion	Ratio	Resp	Lower	Upper
96	100				
61	129.3	107.8	161.8		
98	65.6	49.8	74.8		

Manual Integrations
APPROVED

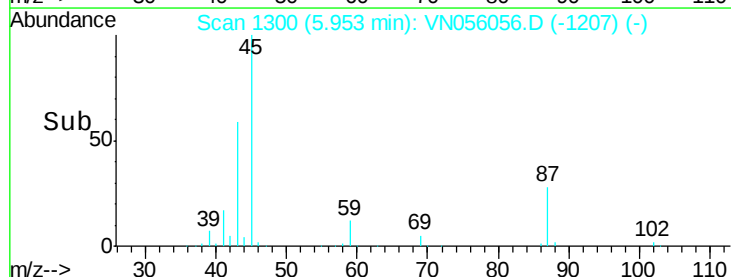
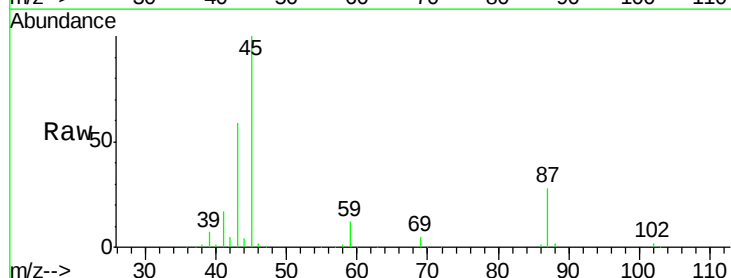
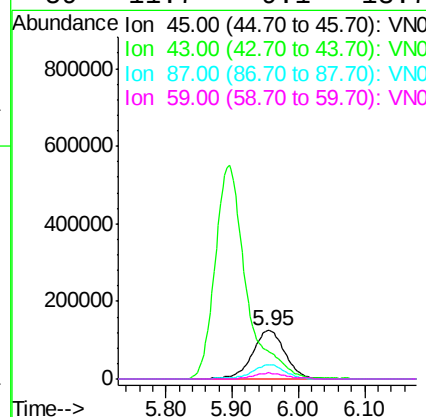
MMDadoda

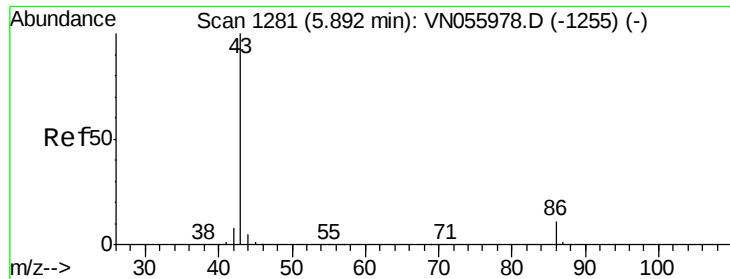
6/7/2019 9:37:05 AM



#22
Diisopropyl ether
Concen: 54.223 ug/l
RT: 5.95 min Scan# 1300
Delta R.T. -0.00 min
Lab File: VN056056.D
Acq: 6 Jun 2019 19:32

Tgt Ion	Ion	Ratio	Resp	Lower	Upper
45	100				
43	57.4	45.0	67.6		
87	28.2	22.2	33.4		
59	11.7	9.1	13.7		





#23
 Vinyl Acetate
 Concen: 286.473 ug/l
 RT: 5.90 min Scan# 1282
 Delta R.T. 0.00 min
 Lab File: VN056056.D
 Acq: 6 Jun 2019 19:32

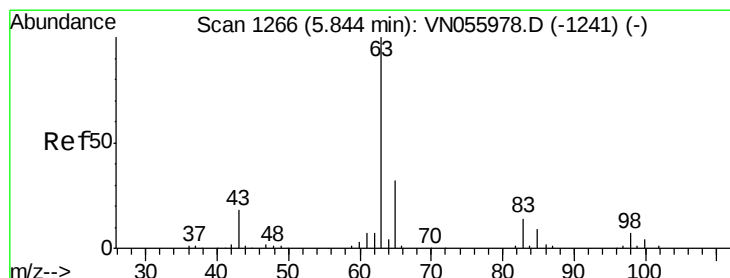
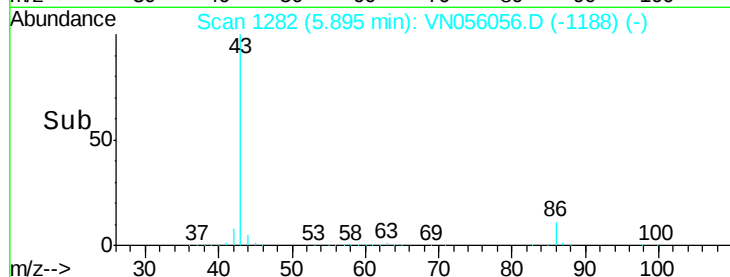
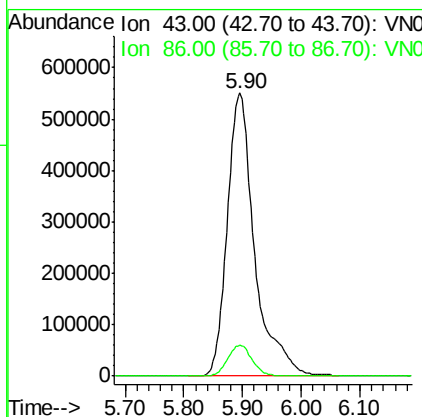
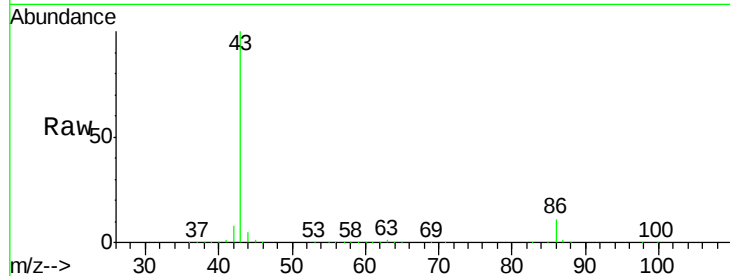
Instrument :
 MSVOA_N
 ClientSampleId :
 LF015RW050-190604MSD

Tot Ion: 43 Resp: 1789669
 Ion Ratio Lower Upper
 43 100
 86 10.8 8.6 13.0

Manual Integrations
 APPROVED

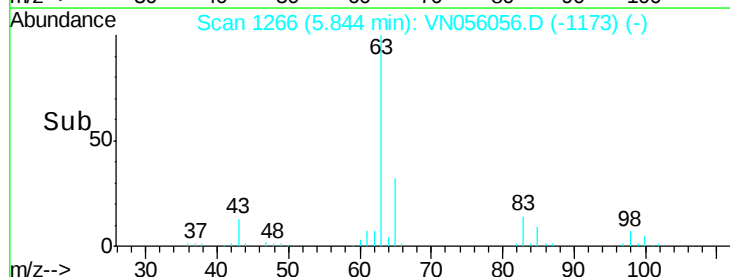
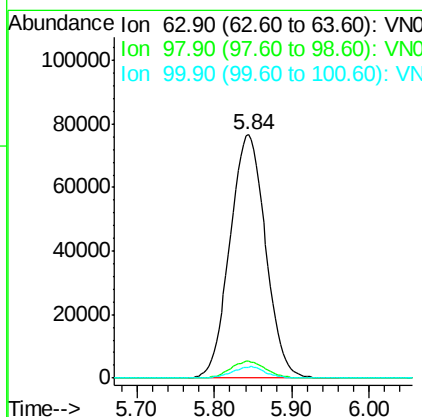
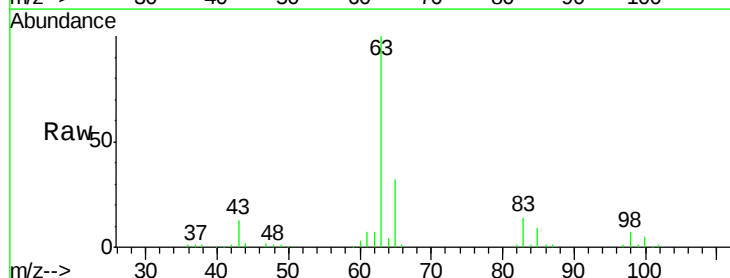
MMDadoda

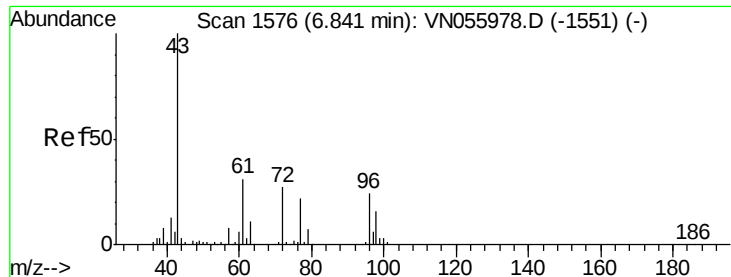
6/7/2019 9:37:05 AM



#24
 1,1-Dichloroethane
 Concen: 53.573 ug/l
 RT: 5.84 min Scan# 1266
 Delta R.T. -0.00 min
 Lab File: VN056056.D
 Acq: 6 Jun 2019 19:32

Tgt Ion: 63 Resp: 245151
 Ion Ratio Lower Upper
 63 100
 98 6.9 3.4 10.1
 100 4.6 2.2 6.6





#25
2-Butanone
Concen: 270.246 ug/l
RT: 6.84 min Scan# 1577
Delta R.T. 0.00 min
Lab File: VN056056.D
Acq: 6 Jun 2019 19:32

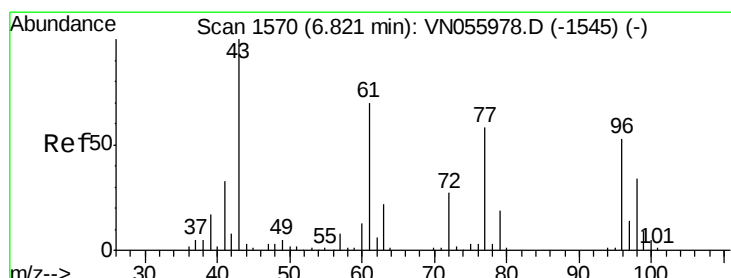
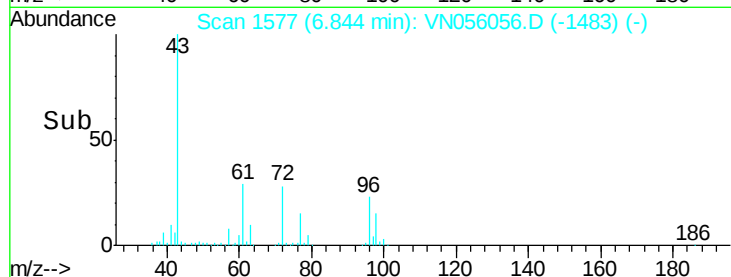
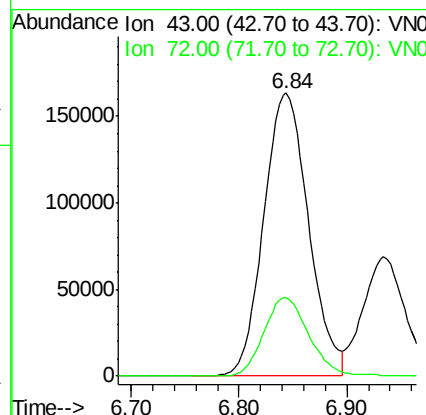
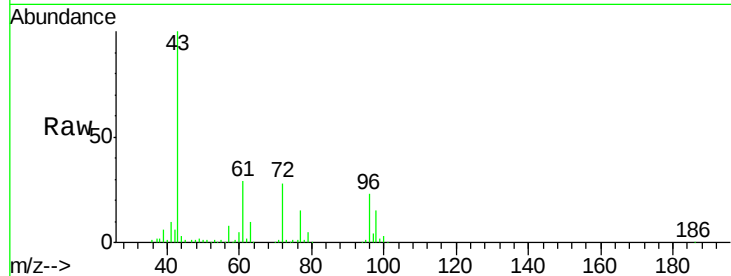
Instrument :
MSVOA_N
ClientSampleId :
LF015RW050-190604MSD

Tot Ion: 43 Resp: 469422
Ion Ratio Lower Upper
43 100
72 27.8 21.9 32.9

Manual Integrations
APPROVED

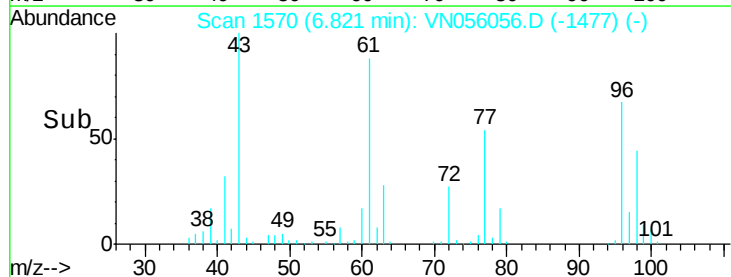
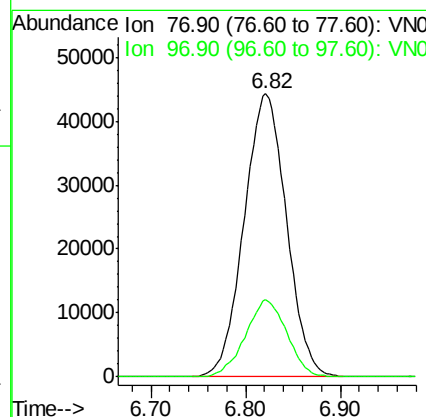
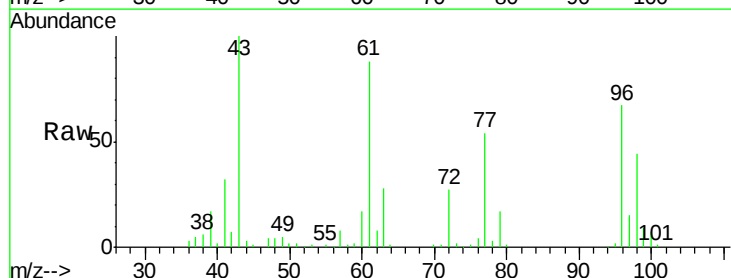
MMDadoda

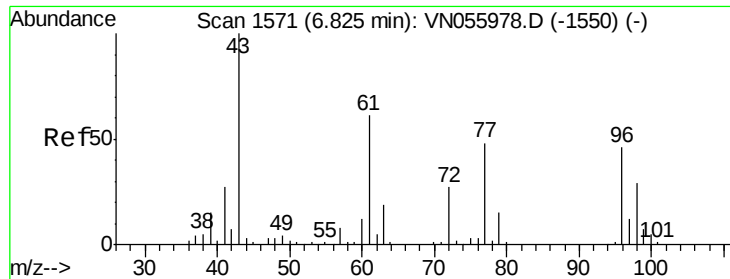
6/7/2019 9:37:05 AM



#26
2,2-Dichloropropane
Concen: 38.606 ug/l
RT: 6.82 min Scan# 1570
Delta R.T. -0.00 min
Lab File: VN056056.D
Acq: 6 Jun 2019 19:32

Tgt Ion: 77 Resp: 137854
Ion Ratio Lower Upper
77 100
97 26.6 12.2 36.6





#27
 cis-1,2-Dichloroethene
 Concen: 53.864 ug/l
 RT: 6.83 min Scan# 1572
 Delta R.T. 0.00 min
 Lab File: VN056056.D
 Acq: 6 Jun 2019 19:32

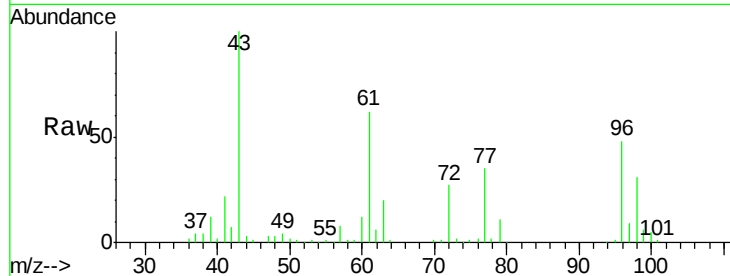
Instrument :
 MSVOA_N
 ClientSampleId :
 LF015RW050-190604MSD

Tot Ion	Ratio	Resp	Lower	Upper
96	100	164876		
61	131.9	0.0	275.8	
98	64.8	0.0	128.4	

Manual Integrations
 APPROVED

MMDadoda

6/7/2019 9:37:05 AM

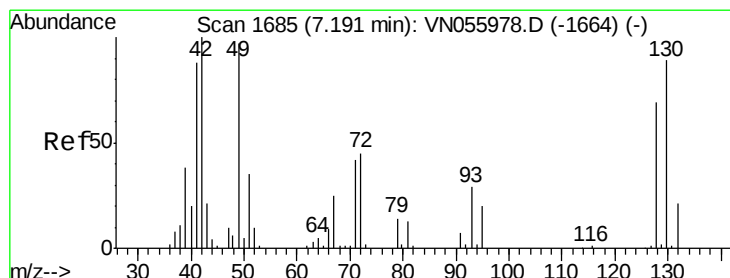
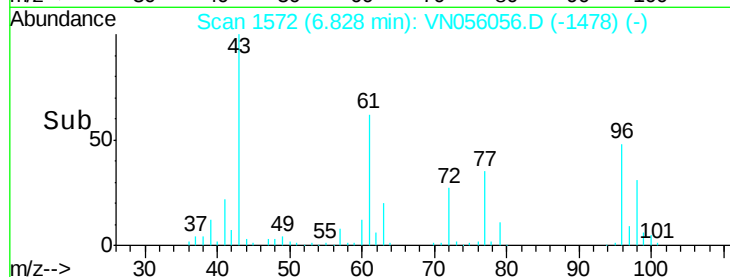
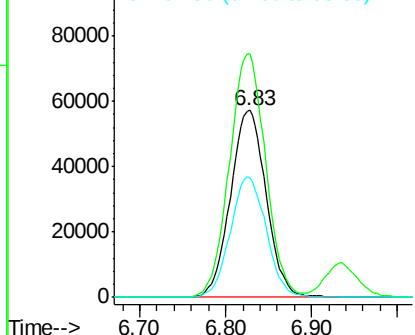


Abundance

Ion 95.90 (95.60 to 96.60): VN0

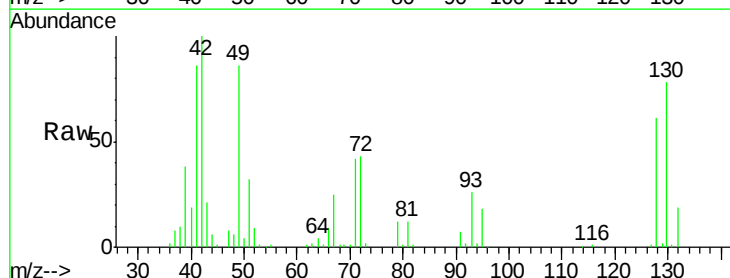
Ion 60.90 (60.60 to 61.60): VN0

Ion 97.90 (97.60 to 98.60): VN0



#28
 Bromochloromethane
 Concen: 54.806 ug/l
 RT: 7.19 min Scan# 1686
 Delta R.T. 0.00 min
 Lab File: VN056056.D
 Acq: 6 Jun 2019 19:32

Tgt Ion	Ratio	Resp	Lower	Upper
49	100	118601		
129	2.2	0.0	4.4	
130	90.1	71.2	106.8	

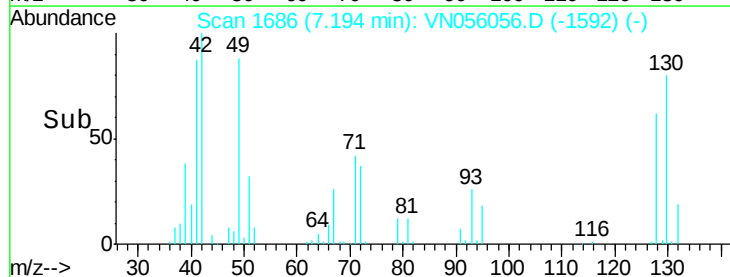
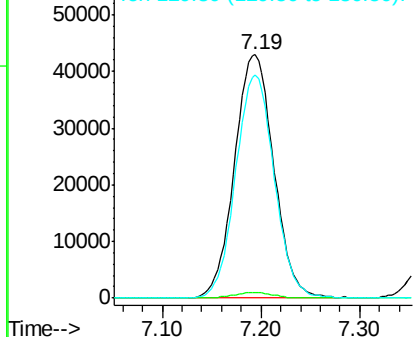


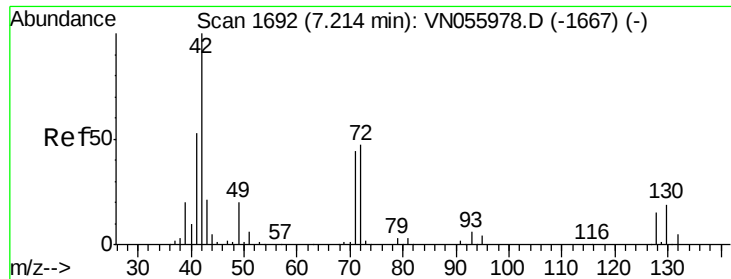
Abundance

Ion 48.90 (48.60 to 49.60): VN0

Ion 128.80 (128.50 to 129.50): V

Ion 129.80 (129.50 to 130.50): V





#29
Tetrahydrofuran
Concen: 293.559 ug/l
RT: 7.22 min Scan# 1693
Delta R.T. 0.00 min
Lab File: VN056056.D
Acq: 6 Jun 2019 19:32

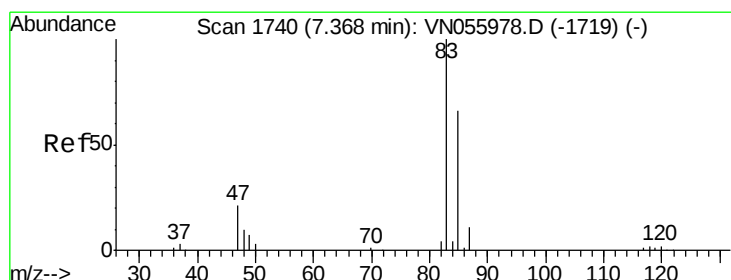
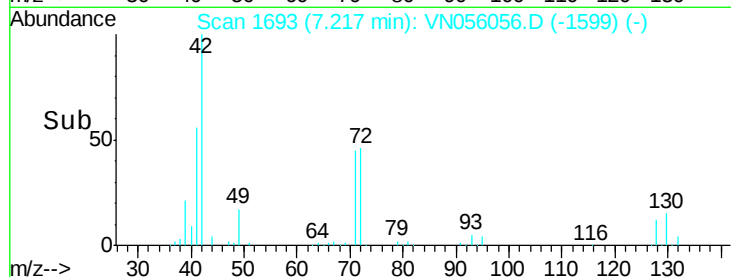
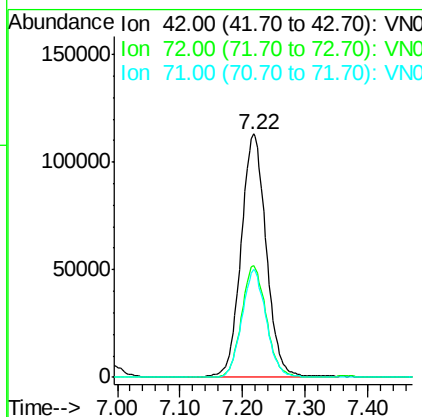
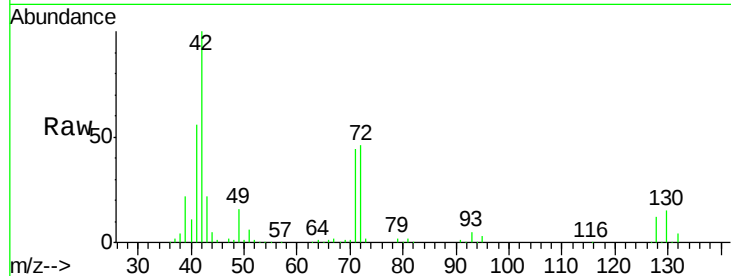
Instrument :
MSVOA_N
ClientSampleId :
LF015RW050-190604MSD

Tot Ion	Ratio	Lower	Upper
42	100		
72	45.0	35.9	53.9
71	42.7	34.0	51.0

Manual Integrations
APPROVED

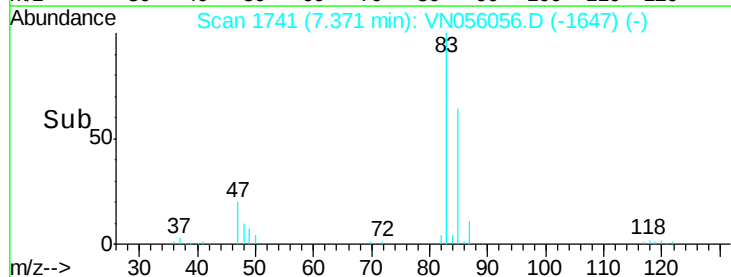
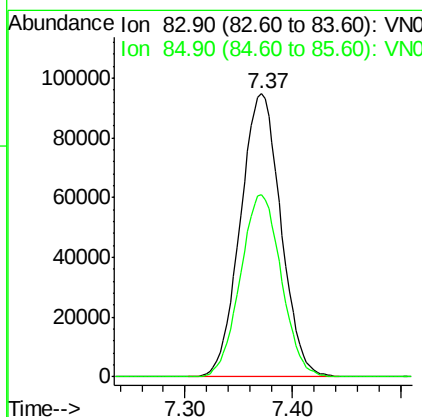
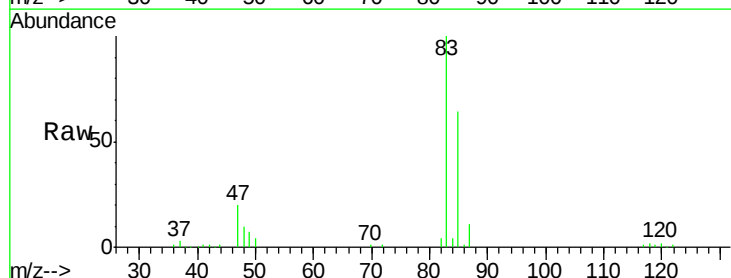
MMDadoda

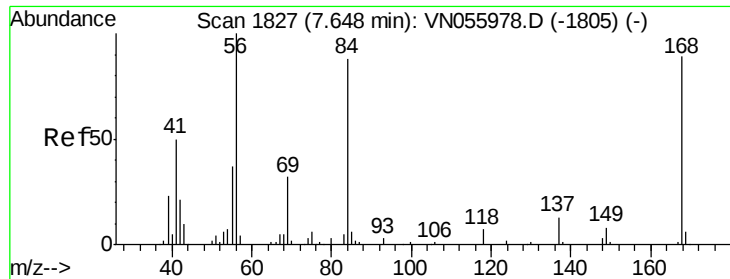
6/7/2019 9:37:05 AM



#30
Chloroform
Concen: 53.649 ug/l
RT: 7.37 min Scan# 1741
Delta R.T. 0.00 min
Lab File: VN056056.D
Acq: 6 Jun 2019 19:32

Tgt Ion	Ratio	Lower	Upper
83	100		
85	64.2	51.8	77.8





#31

Cyclohexane

Concen: 49.684 ug/l

RT: 7.65 min Scan# 1828

Delta R.T. 0.00 min

Lab File: VN056056.D

Acq: 6 Jun 2019 19:32

Instrument :

MSVOA_N

ClientSampled :

LF015RW050-190604MSD

Tot Ion: 56 Resp: 226624

Ion Ratio Lower Upper

56 100

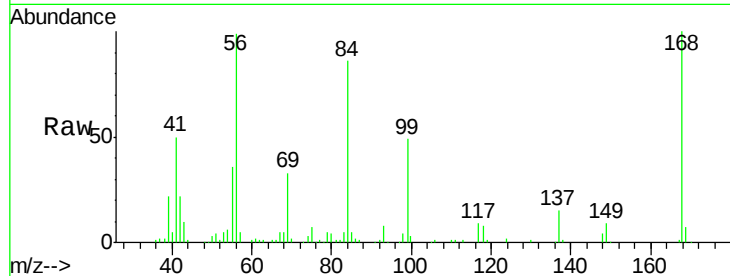
69 33.9 25.6 38.4

84 86.7 67.4 101.0

Manual Integrations
APPROVED

MMDadoda

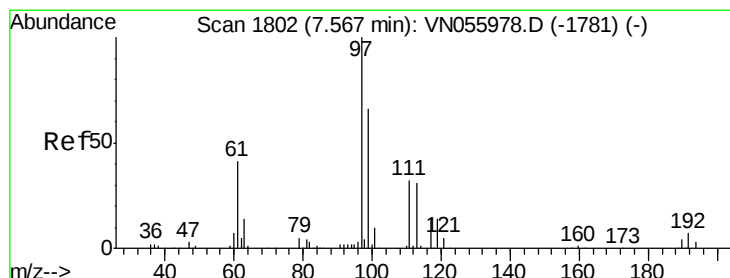
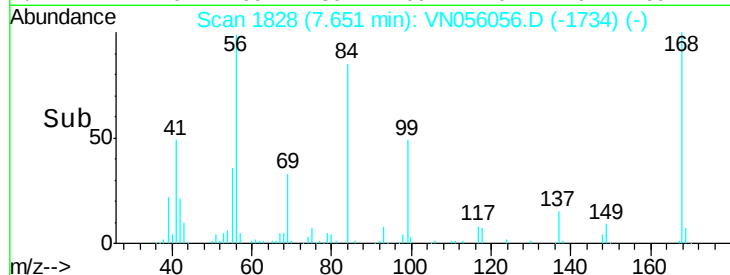
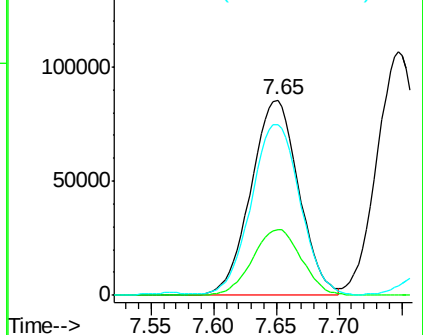
6/7/2019 9:37:05 AM



Abundance Ion 56.00 (55.70 to 56.70): VNO

Ion 69.00 (68.70 to 69.70): VNO

Ion 84.00 (83.70 to 84.70): VNO



#32

1,1,1-Trichloroethane

Concen: 52.701 ug/l

RT: 7.57 min Scan# 1802

Delta R.T. -0.00 min

Lab File: VN056056.D

Acq: 6 Jun 2019 19:32

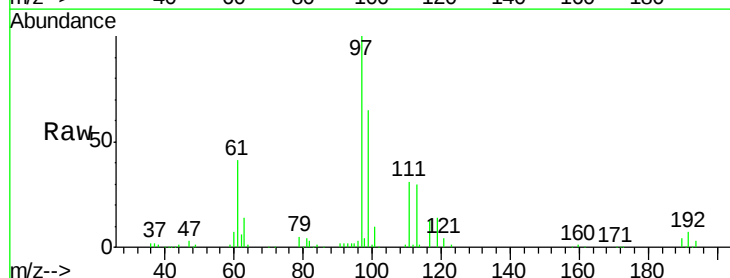
Tgt Ion: 97 Resp: 202590

Ion Ratio Lower Upper

97 100

99 65.2 52.0 78.0

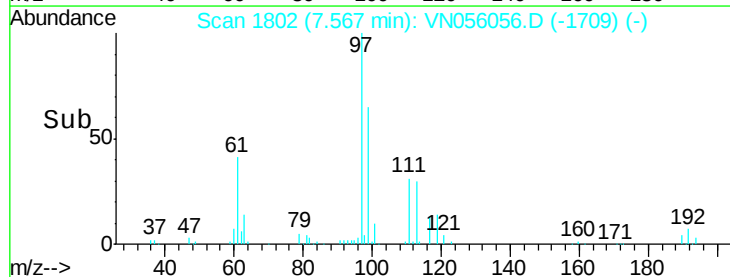
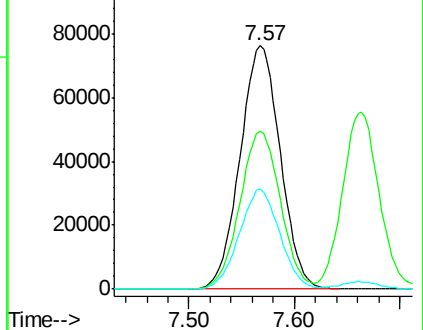
61 41.2 32.9 49.3

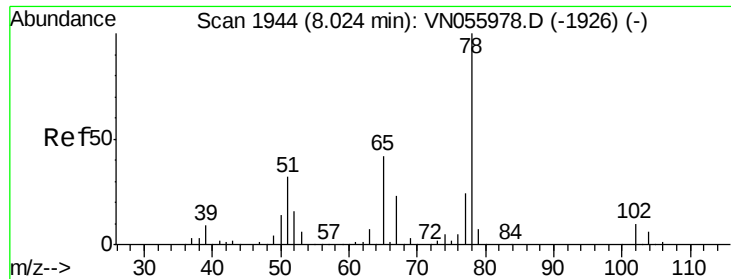


Abundance Ion 96.90 (96.60 to 97.60): VNO

Ion 98.90 (98.60 to 99.60): VNO

Ion 60.90 (60.60 to 61.60): VNO





#33
 1,2-Dichloroethane-d4
 Concen: 54.721 ug/l
 RT: 8.02 min Scan# 1944
 Delta R.T. -0.00 min
 Lab File: VN056056.D
 Acq: 6 Jun 2019 19:32

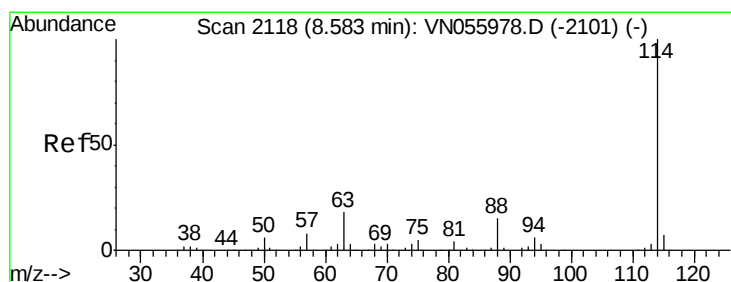
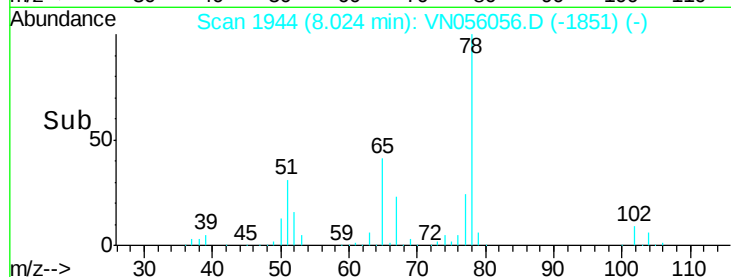
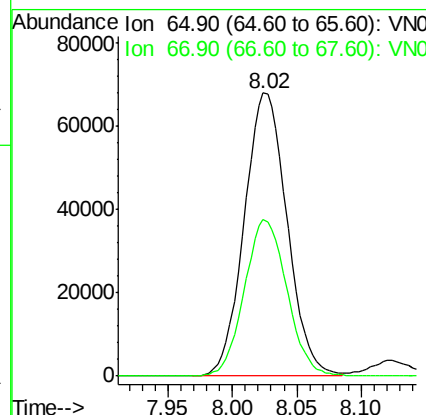
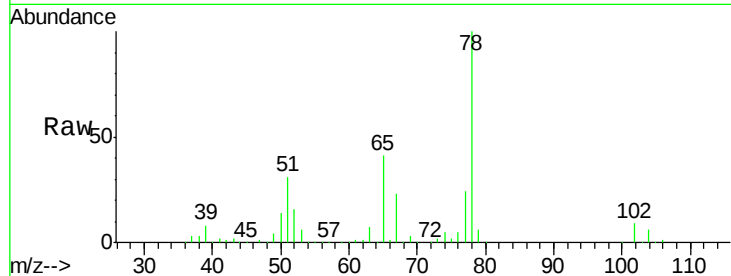
Instrument :
 MSVOA_N
 ClientSampleId :
 LF015RW050-190604MSD

Tot Ion	Ratio	Resp	Lower	Upper
65	100	157299		
67	54.9	0.0	109.2	

Manual Integrations
 APPROVED

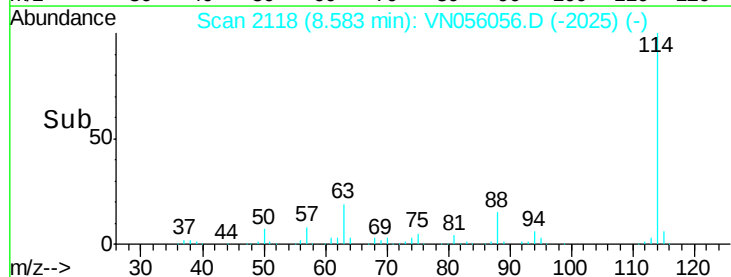
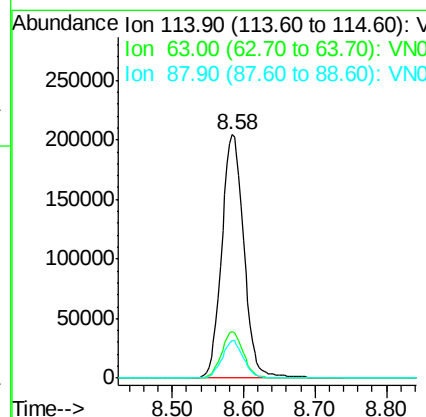
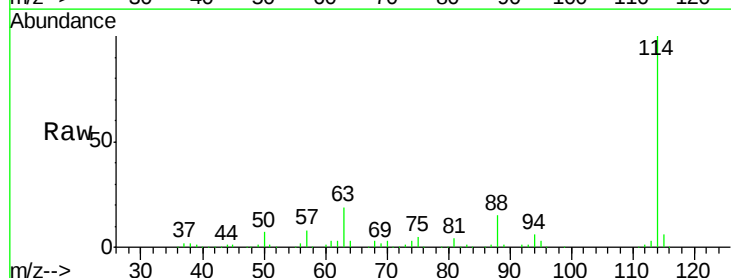
MMDadoda

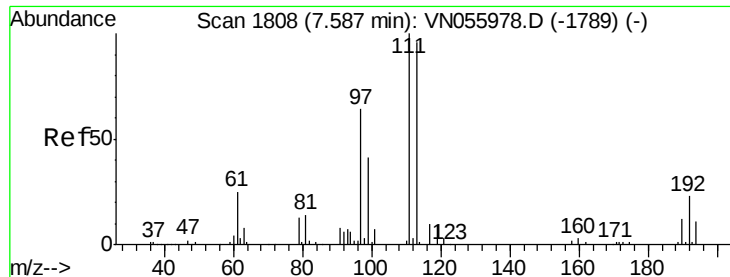
6/7/2019 9:37:05 AM



#34
 1,4-Difluorobenzene
 Concen: 50.000 ug/l
 RT: 8.58 min Scan# 2118
 Delta R.T. -0.00 min
 Lab File: VN056056.D
 Acq: 6 Jun 2019 19:32

Tgt Ion	Ratio	Resp	Lower	Upper
114	100	440237		
63	19.2	0.0	39.2	
88	15.4	0.0	31.0	





#35
Dibromofluoromethane
Concen: 52.202 ug/l
RT: 7.59 min Scan# 1809
Delta R.T. 0.00 min
Lab File: VN056056.D
Acq: 6 Jun 2019 19:32

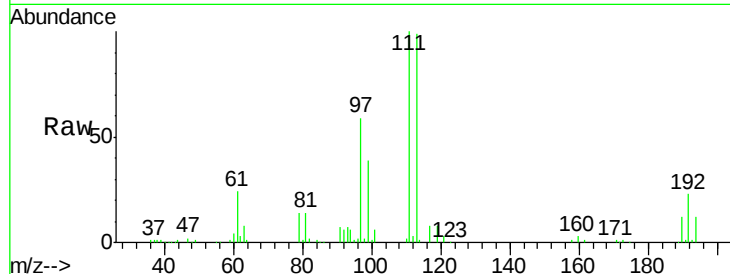
Instrument :
MSVOA_N
ClientSampleId :
LF015RW050-190604MSD

Tot Ion	Ratio	Resp	Lower	Upper
113	100			
111	102.7	81.9	122.9	
192	23.8	19.5	29.3	

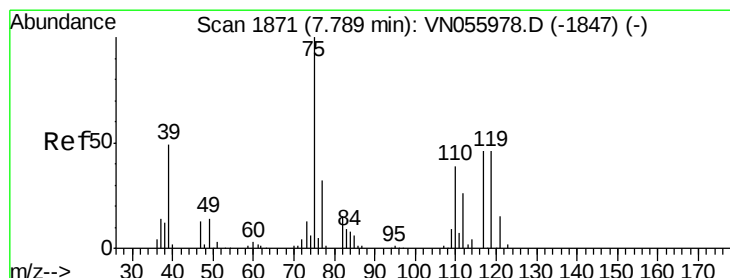
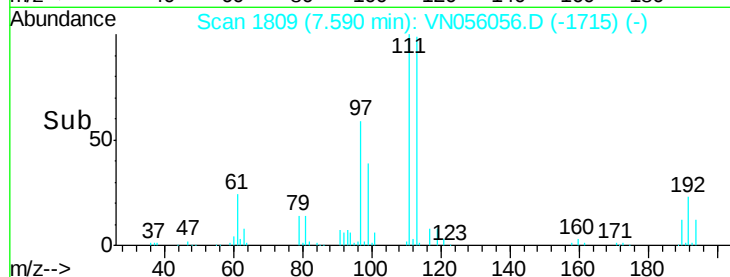
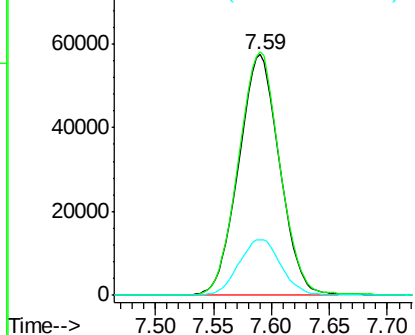
Manual Integrations
APPROVED

MMDadoda

6/7/2019 9:37:05 AM

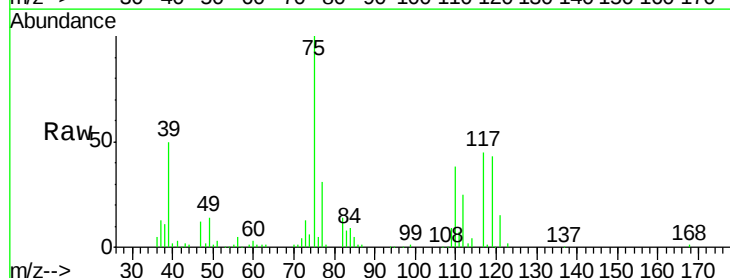


Abundance Ion 112.80 (112.50 to 113.50): V
Ion 110.80 (110.50 to 111.50): V
Ion 191.70 (191.40 to 192.40): V

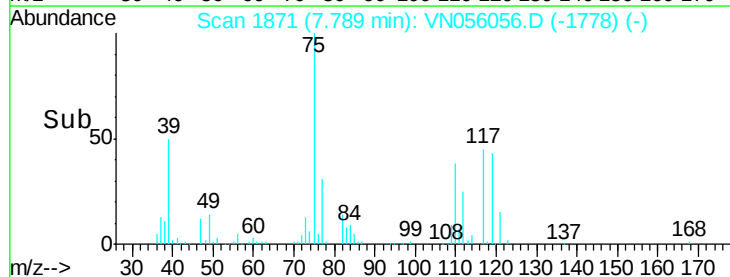
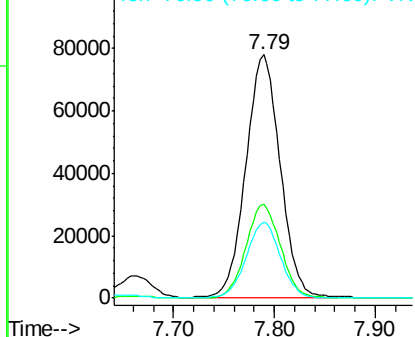


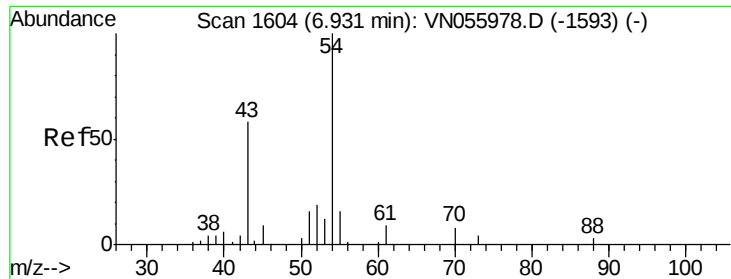
#36
1,1-Dichloropropene
Concen: 48.264 ug/l
RT: 7.79 min Scan# 1871
Delta R.T. -0.00 min
Lab File: VN056056.D
Acq: 6 Jun 2019 19:32

Tgt Ion	Ratio	Resp	Lower	Upper
75	100			
110	39.1	19.0	57.0	
77	31.5	25.1	37.7	



Abundance Ion 74.90 (74.60 to 75.60): V
Ion 109.90 (109.60 to 110.60): V
Ion 76.90 (76.60 to 77.60): V





#37
Ethyl Acetate
Concen: 56.698 ug/l
RT: 6.93 min Scan# 1605
Delta R.T. 0.00 min
Lab File: VN056056.D
Acq: 6 Jun 2019 19:32

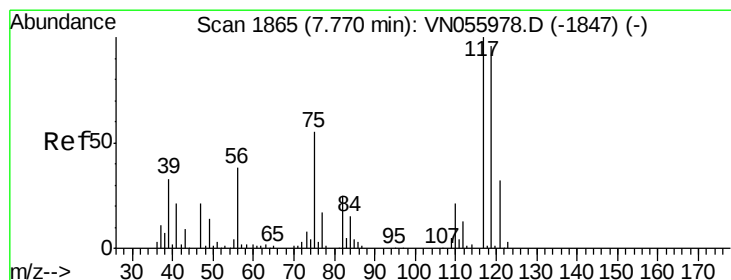
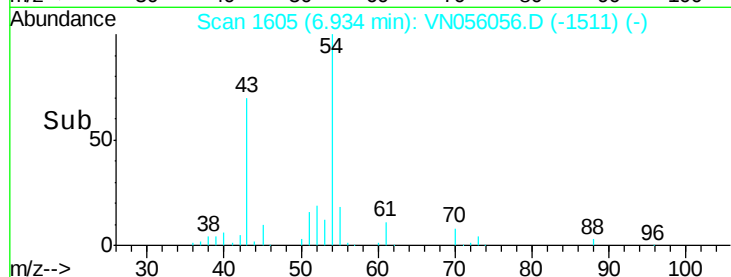
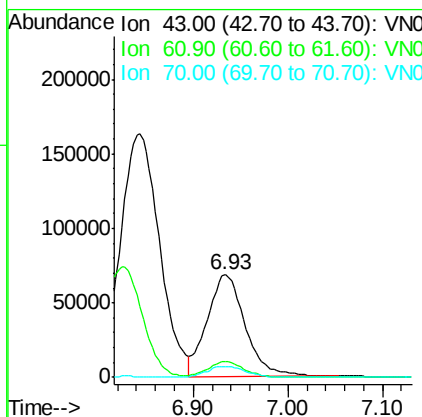
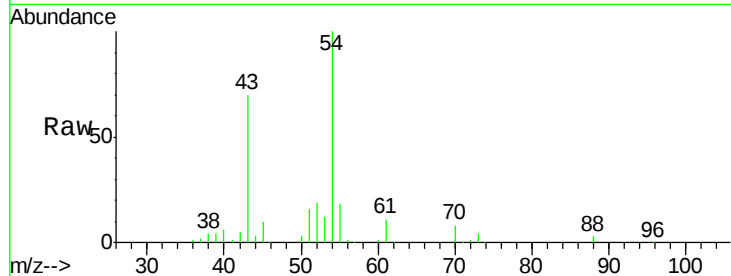
Instrument :
MSVOA_N
ClientSampleId :
LF015RW050-190604MSD

Tot Ion	43	61	70	Resp	190965
Ion Ratio	100	14.9	11.0	Lower	Upper
		12.2	8.9		

Manual Integrations
APPROVED

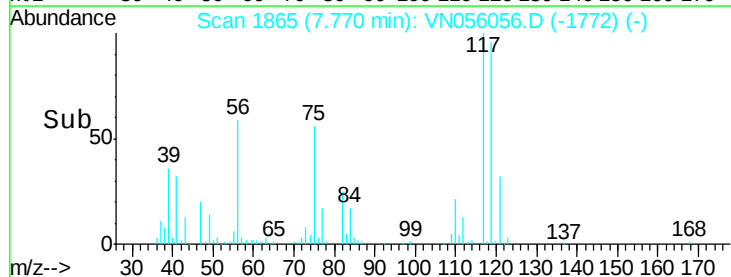
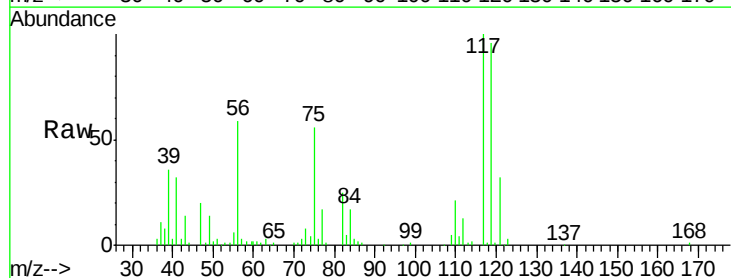
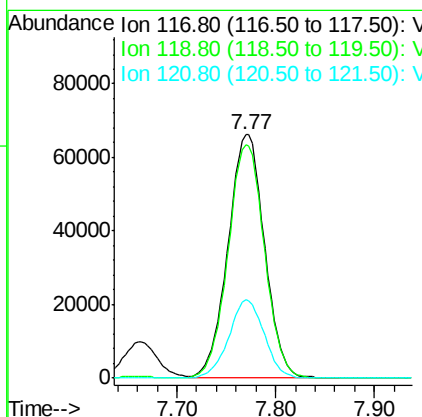
MMDadoda

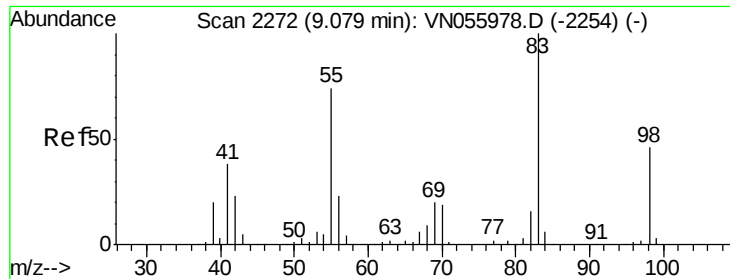
6/7/2019 9:37:05 AM



#38
Carbon Tetrachloride
Concen: 48.897 ug/l
RT: 7.77 min Scan# 1865
Delta R.T. -0.00 min
Lab File: VN056056.D
Acq: 6 Jun 2019 19:32

Tgt Ion	117	119	121	Resp	170647
Ion Ratio	100	95.8	32.0	Lower	Upper
		79.0	24.7		





#39
Methvlcvclohexane
Concen: 47.193 ug/l
RT: 9.08 min Scan# 2272
Delta R.T. -0.00 min
Lab File: VN056056.D
Acq: 6 Jun 2019 19:32

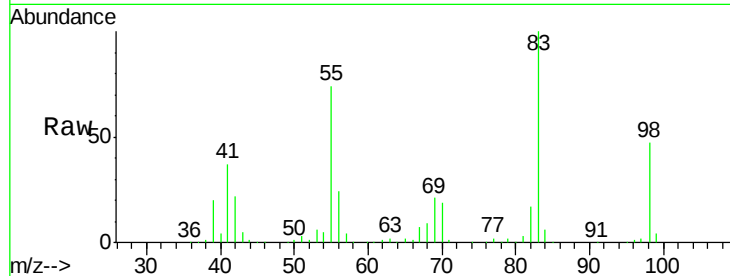
Instrument :
MSVOA_N
ClientSampleId :
LF015RW050-190604MSD

Tot Ion	Ratio	Resp	Lower	Upper
83	100			
55	74.4	59.3	88.9	
98	47.2	36.6	54.8	

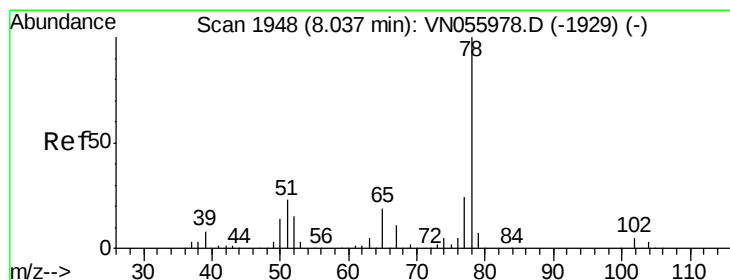
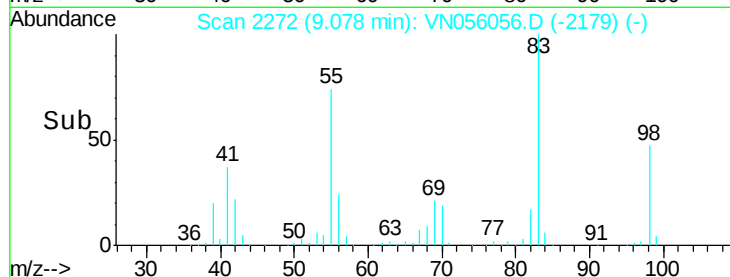
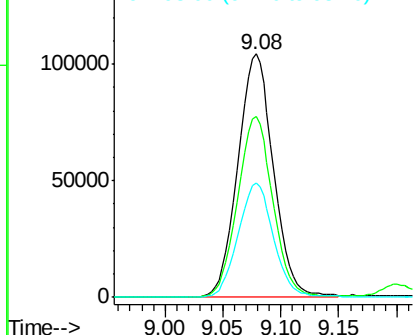
Manual Integrations
APPROVED

MMDadoda

6/7/2019 9:37:05 AM

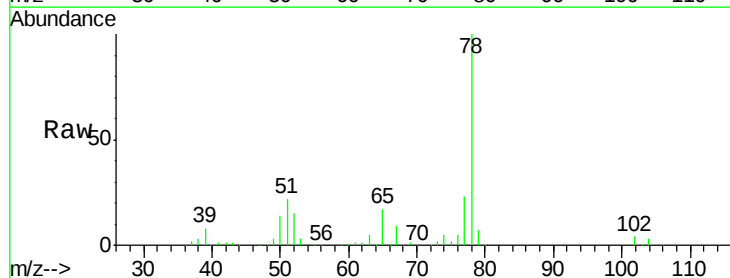


Abundance Ion 83.00 (82.70 to 83.70): VN0
Ion 55.00 (54.70 to 55.70): VN0
Ion 98.00 (97.70 to 98.70): VN0

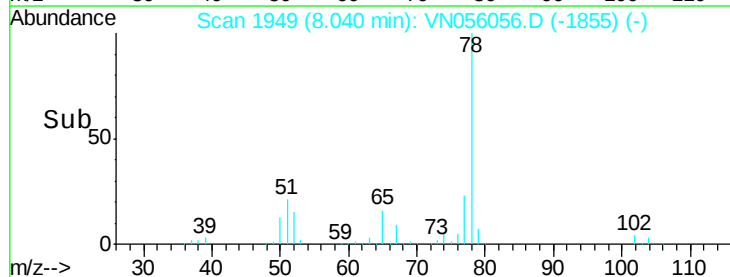
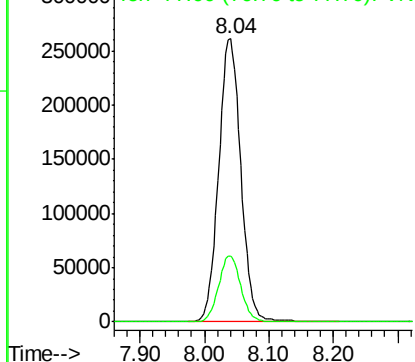


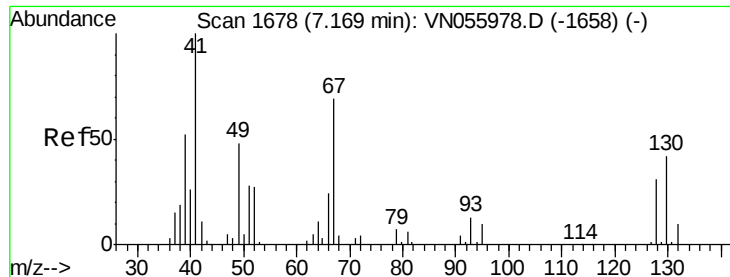
#40
Benzene
Concen: 54.230 ug/l
RT: 8.04 min Scan# 1949
Delta R.T. 0.00 min
Lab File: VN056056.D
Acq: 6 Jun 2019 19:32

Tgt Ion	Ratio	Resp	Lower	Upper
78	100			
77	23.4	18.8	28.2	



Abundance Ion 78.00 (77.70 to 78.70): VN0
Ion 77.00 (76.70 to 77.70): VN0





#41
Methacrylonitrile
Concen: 57.591 ug/l
RT: 7.18 min Scan# 1680
Delta R.T. 0.01 min
Lab File: VN056056.D
Acq: 6 Jun 2019 19:32

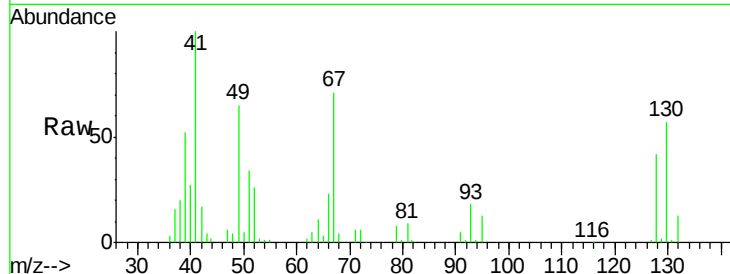
Instrument :
MSVOA_N
ClientSampleId :
LF015RW050-190604MSD

Tot Ion	41	Resp	89246
Ion Ratio	Lower	Upper	
41	100		
39	61.4	45.6	68.4
67	90.1	67.7	101.5
52	33.6	26.6	40.0

Manual Integrations
APPROVED

MMDadoda

6/7/2019 9:37:05 AM



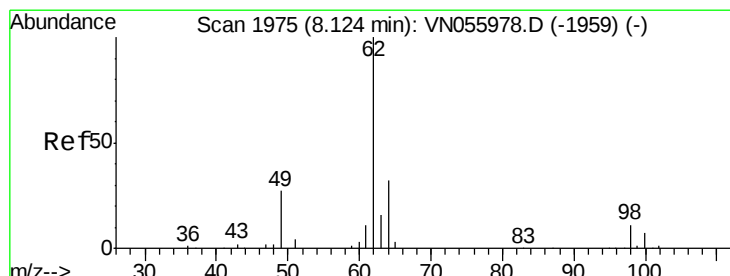
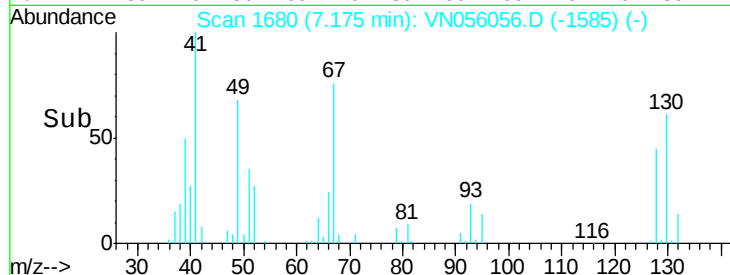
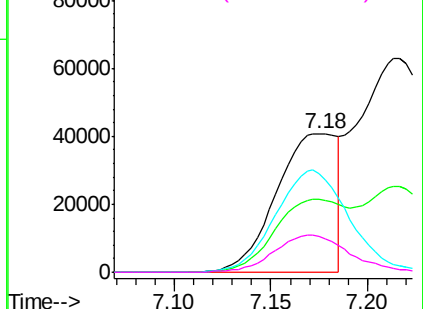
Abundance

Ion 41.00 (40.70 to 41.70): VNC

Ion 39.00 (38.70 to 39.70): VNC

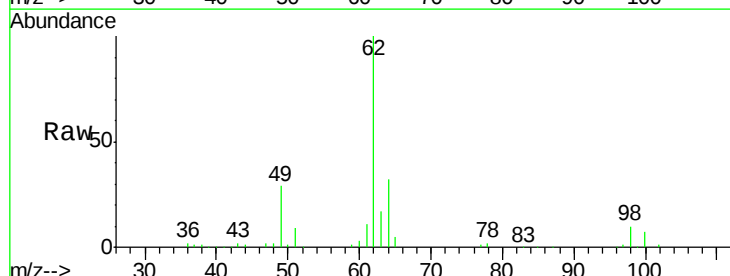
Ion 67.00 (66.70 to 67.70): VNC

Ion 52.00 (51.70 to 52.70): VNC



#42
1,2-Dichloroethane
Concen: 50.289 ug/l
RT: 8.12 min Scan# 1975
Delta R.T. -0.00 min
Lab File: VN056056.D
Acq: 6 Jun 2019 19:32

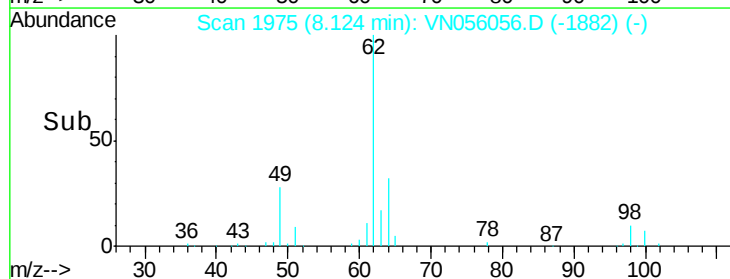
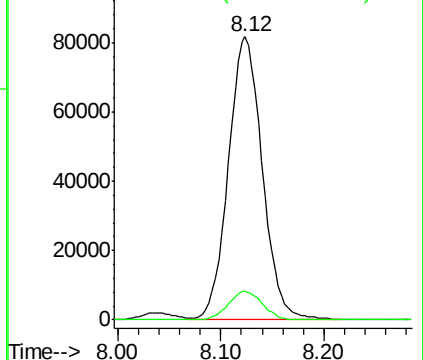
Tgt Ion	62	Resp	185983
Ion Ratio	Lower	Upper	
62	100		
98	10.1	0.0	20.2

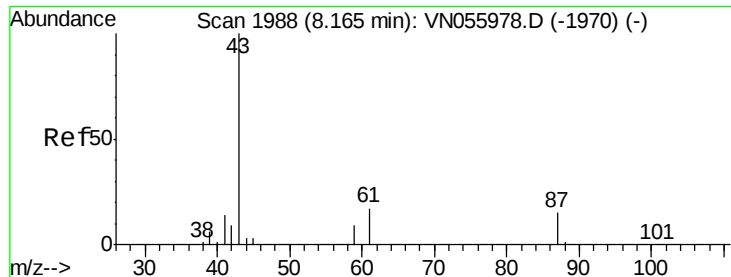


Abundance

Ion 61.90 (61.60 to 62.60): VNC

Ion 97.90 (97.60 to 98.60): VNC





#43
Isopropyl Acetate
Concen: 54.011 ug/l
RT: 8.17 min Scan# 1988
Delta R.T. -0.00 min
Lab File: VN056056.D
Acq: 6 Jun 2019 19:32

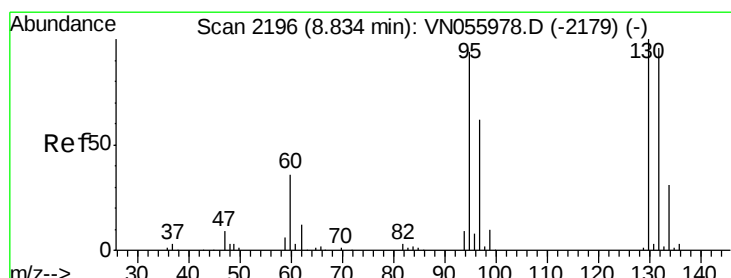
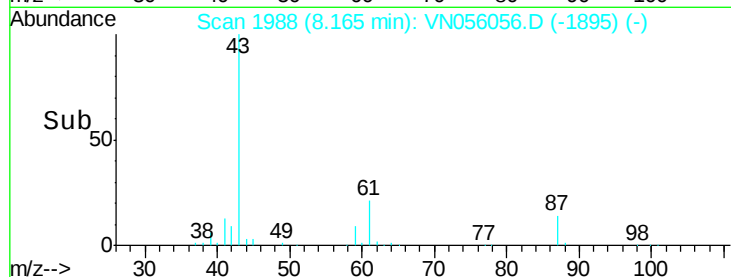
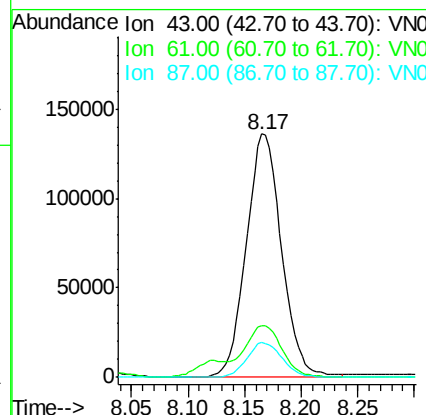
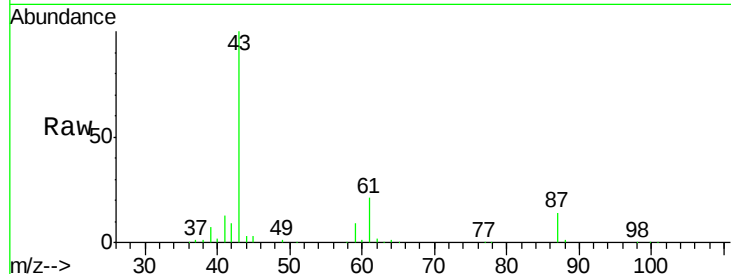
Instrument :
MSVOA_N
ClientSampleId :
LF015RW050-190604MSD

Tot Ion	Ratio	Lower	Upper
43	100		
61	22.3	22.2	33.4
87	14.4	11.4	17.2

Manual Integrations
APPROVED

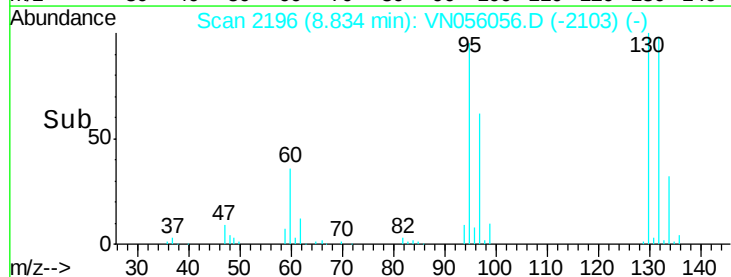
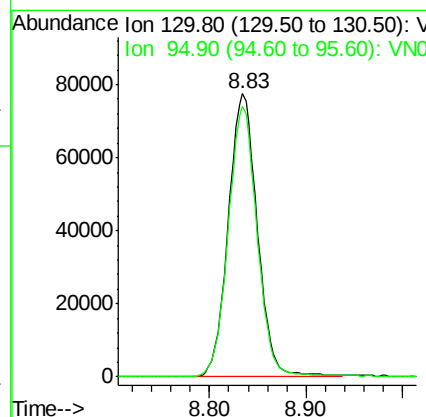
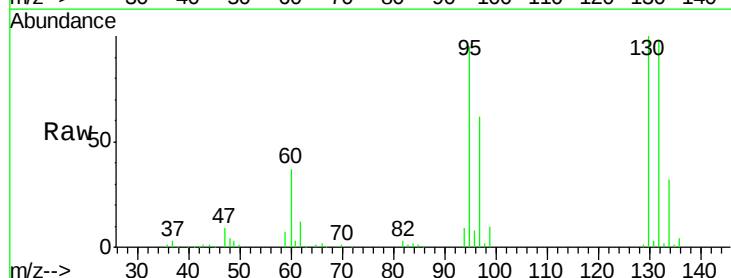
MMDadoda

6/7/2019 9:37:05 AM



#44
Trichloroethene
Concen: 49.051 ug/l
RT: 8.83 min Scan# 2196
Delta R.T. -0.00 min
Lab File: VN056056.D
Acq: 6 Jun 2019 19:32

Tgt Ion	Ratio	Lower	Upper
130	100		
95	95.4	0.0	188.0





#45
 1,2-Dichloropropane
 Concen: 52.128 ug/l
 RT: 9.12 min Scan# 2284
 Delta R.T. -0.00 min
 Lab File: VN056056.D
 Acq: 6 Jun 2019 19:32

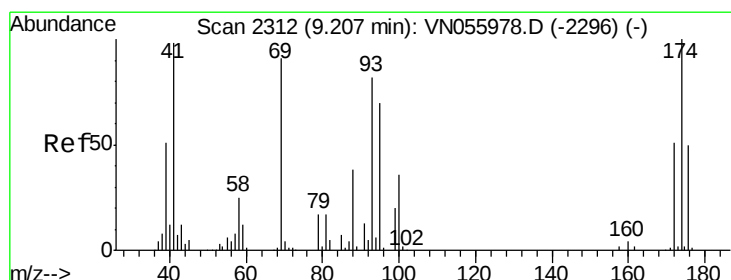
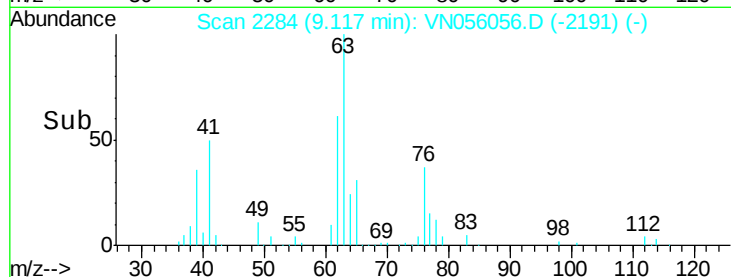
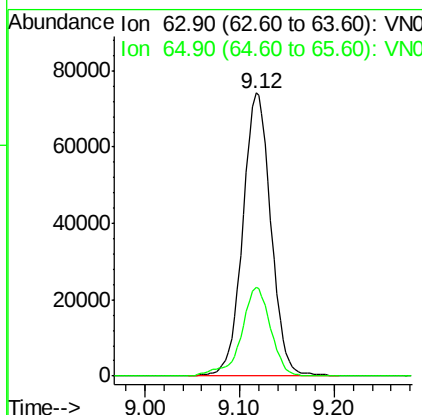
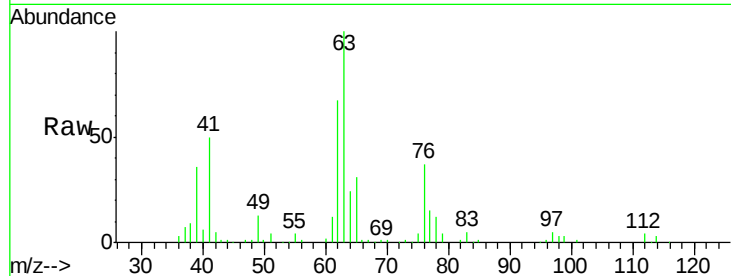
Instrument :
 MSVOA_N
 ClientSampleId :
 LF015RW050-190604MSD

Tot Ion: 63 Resp: 153513
 Ion Ratio Lower Upper
 63 100
 65 31.4 24.6 36.8

Manual Integrations
 APPROVED

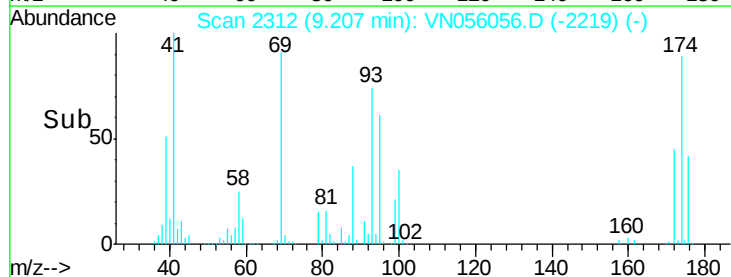
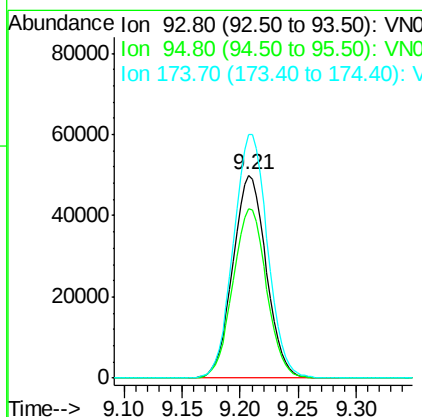
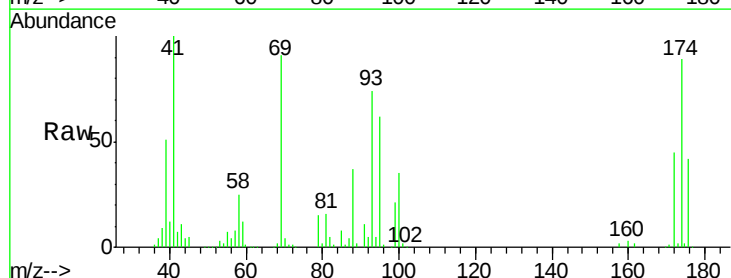
MMDadoda

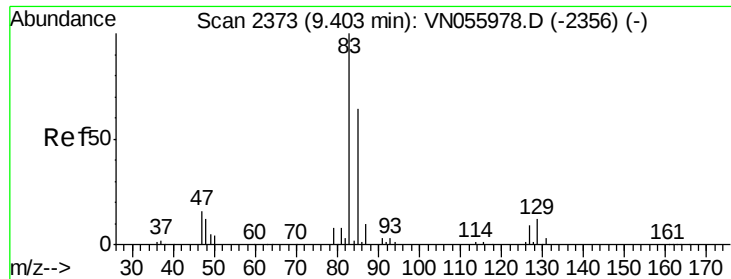
6/7/2019 9:37:05 AM



#46
 Dibromomethane
 Concen: 52.047 ug/l
 RT: 9.21 min Scan# 2312
 Delta R.T. -0.00 min
 Lab File: VN056056.D
 Acq: 6 Jun 2019 19:32

Tgt Ion: 93 Resp: 100230
 Ion Ratio Lower Upper
 93 100
 95 84.1 66.7 100.1
 174 122.3 96.4 144.6





#47
Bromodichloromethane
Concen: 51.806 ug/l
RT: 9.40 min Scan# 2373
Delta R.T. -0.00 min
Lab File: VN056056.D
Acq: 6 Jun 2019 19:32

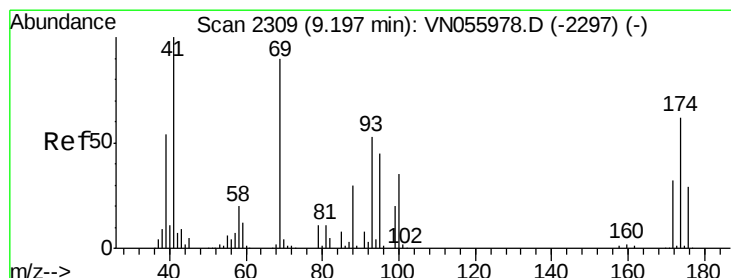
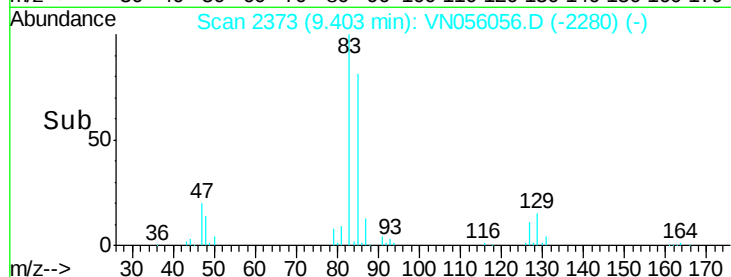
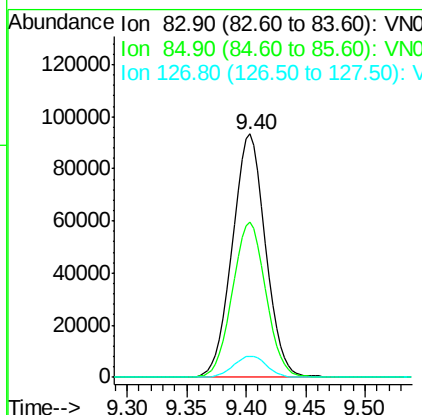
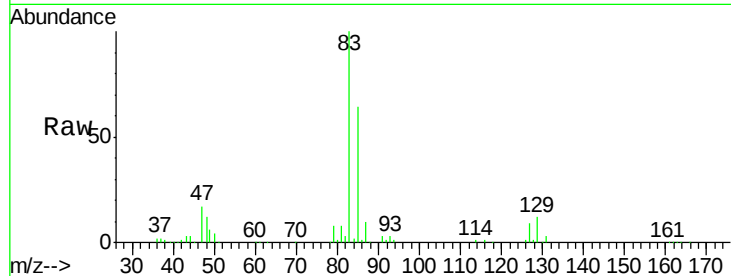
Instrument :
MSVOA_N
ClientSampleId :
LF015RW050-190604MSD

Tot Ion	83	Resp	180816
Ion Ratio	100		
85	63.7	52.2	78.2
127	8.8	7.4	11.0

Manual Integrations
APPROVED

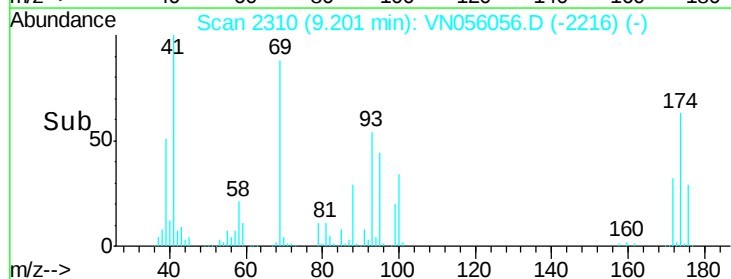
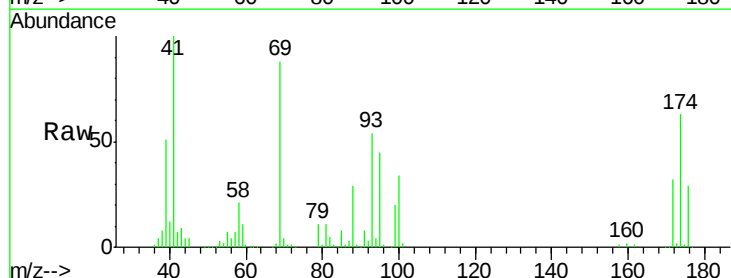
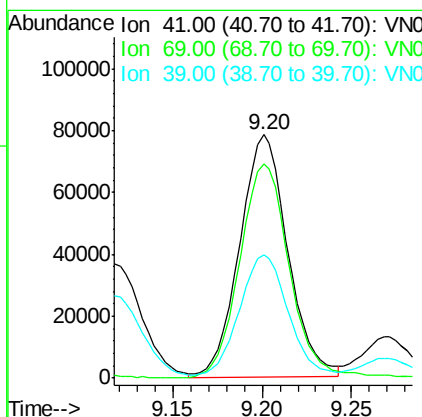
MMDadoda

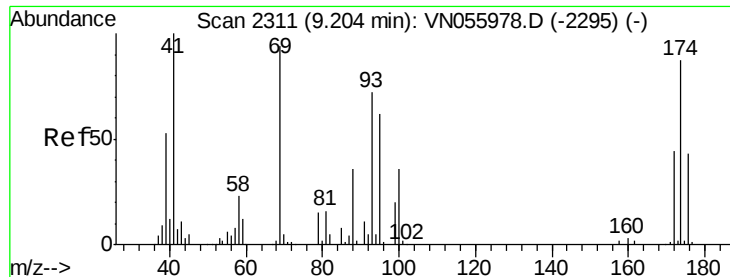
6/7/2019 9:37:05 AM



#48
Methyl methacrylate
Concen: 55.122 ug/l
RT: 9.20 min Scan# 2310
Delta R.T. 0.00 min
Lab File: VN056056.D
Acq: 6 Jun 2019 19:32

Tgt Ion	41	Resp	147184
Ion Ratio	100		
69	91.7	71.0	106.6
39	51.9	44.2	66.2





#49
1,4-Dioxane
Concen: 1065.716 ug/l
RT: 9.21 min Scan# 2312
Delta R.T. 0.00 min
Lab File: VN056056.D
Acq: 6 Jun 2019 19:32

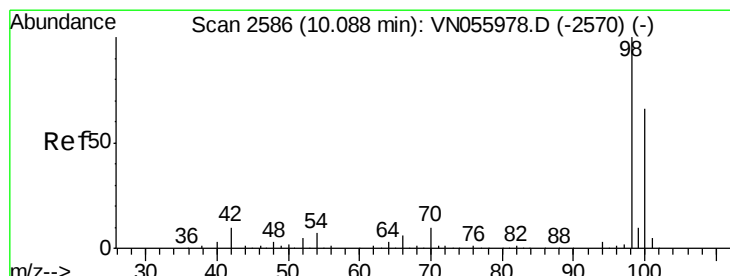
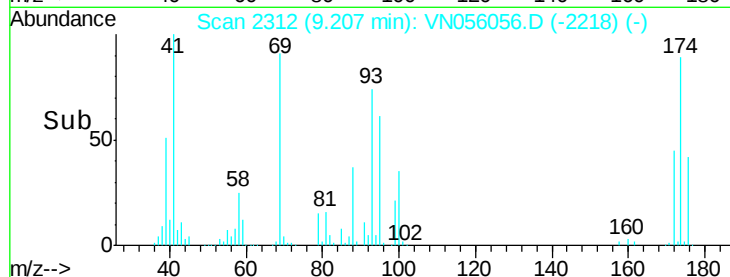
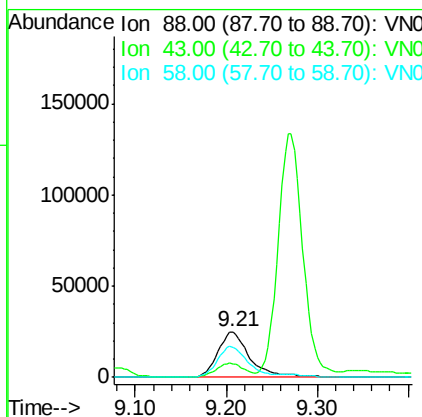
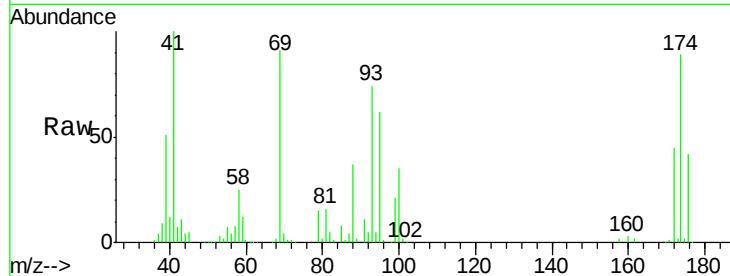
Instrument :
MSVOA_N
ClientSampleId :
LF015RW050-190604MSD

Tot Ion	Ratio	Lower	Upper
88	100		
43	25.1	20.5	30.7
58	64.2	55.8	83.6

Manual Integrations
APPROVED

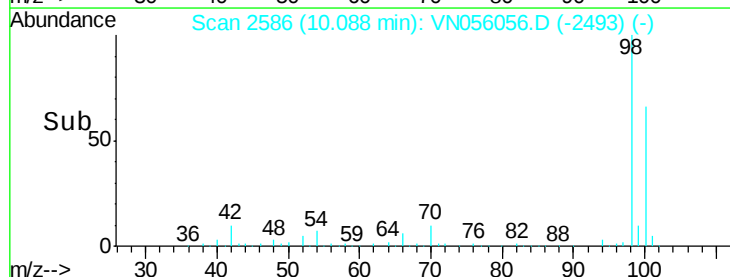
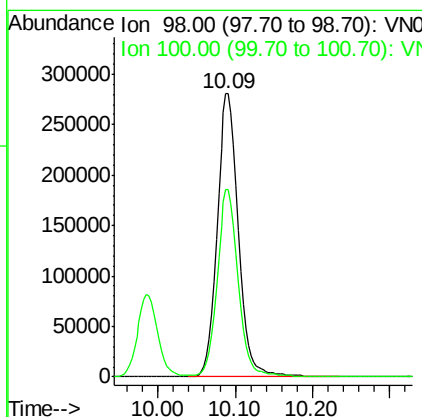
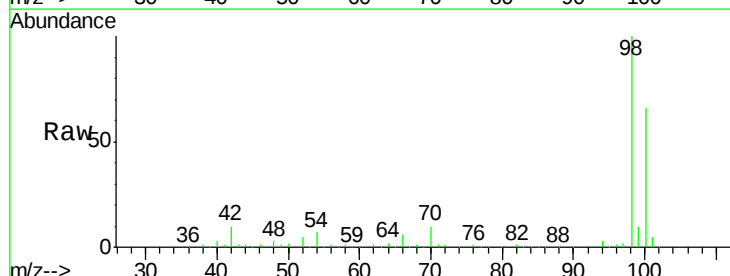
MMDadoda

6/7/2019 9:37:05 AM



#50
Toluene-d8
Concen: 52.064 ug/l
RT: 10.09 min Scan# 2586
Delta R.T. -0.00 min
Lab File: VN056056.D
Acq: 6 Jun 2019 19:32

Tgt Ion	Ratio	Lower	Upper
98	100		
100	65.9	51.9	77.9





#51
4-Methyl-2-Pentanone
Concen: 275.132 ug/l
RT: 9.99 min Scan# 2554
Delta R.T. -0.00 min
Lab File: VN056056.D
Acq: 6 Jun 2019 19:32

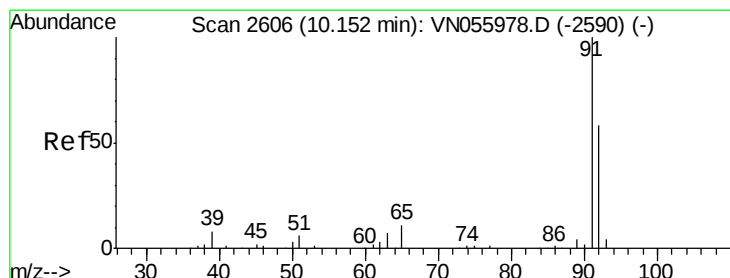
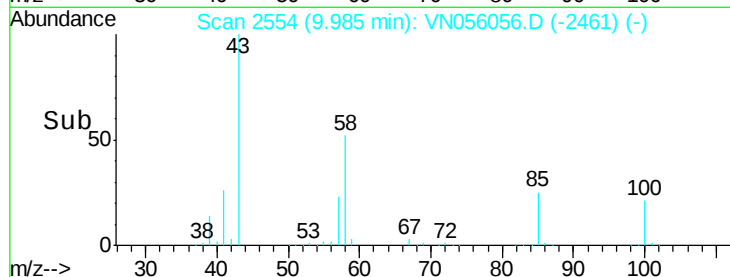
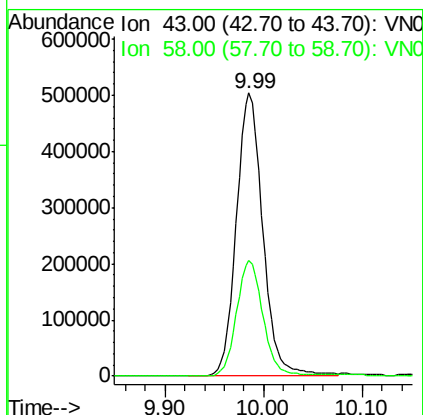
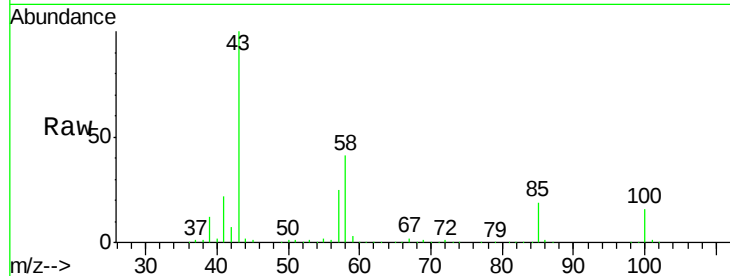
Instrument :
MSVOA_N
ClientSampleId :
LF015RW050-190604MSD

Tot Ion	Ratio	Lower	Upper
43	100		
58	40.7	32.1	48.1

Manual Integrations
APPROVED

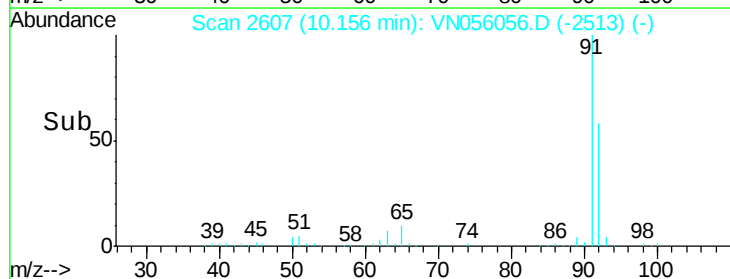
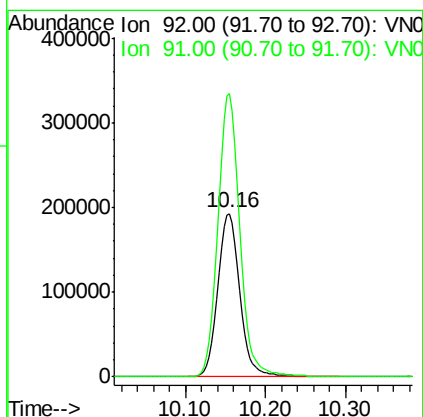
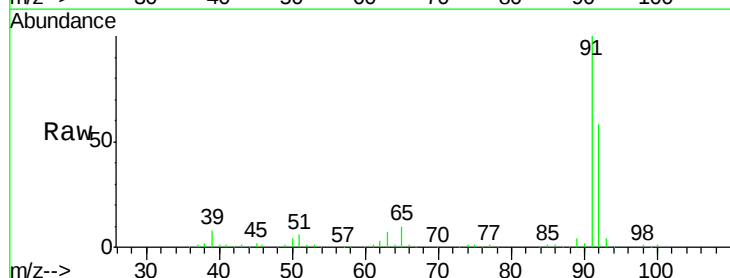
MMDadoda

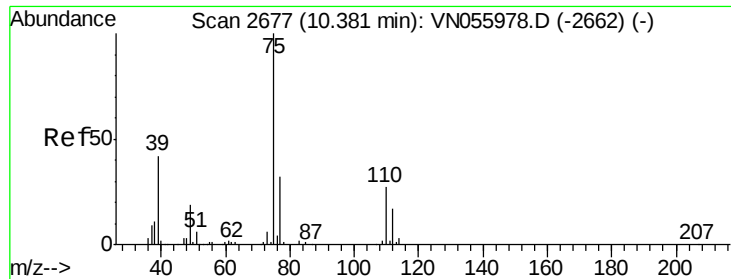
6/7/2019 9:37:05 AM



#52
Toluene
Concen: 51.845 ug/l
RT: 10.16 min Scan# 2607
Delta R.T. 0.00 min
Lab File: VN056056.D
Acq: 6 Jun 2019 19:32

Tgt Ion	Ratio	Lower	Upper
92	100		
91	172.1	139.4	209.2





#53
t-1,3-Dichloropropene
Concen: 45.783 ug/l
RT: 10.38 min Scan# 2677
Delta R.T. 0.00 min
Lab File: VN056056.D
Acq: 6 Jun 2019 19:32

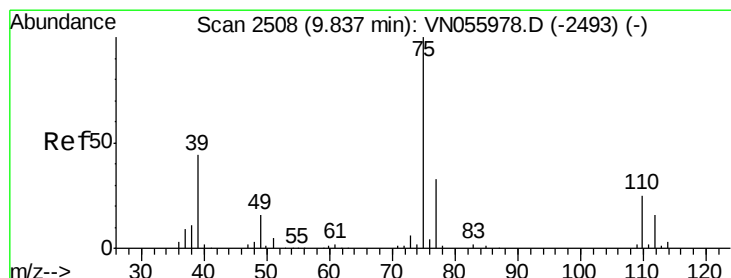
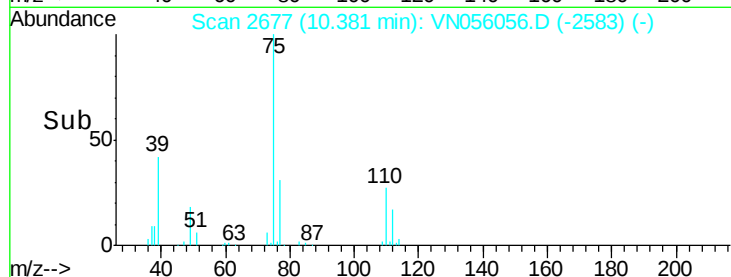
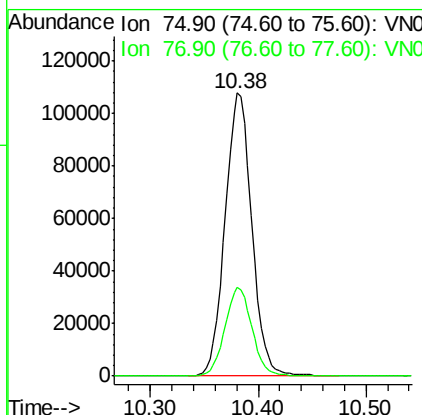
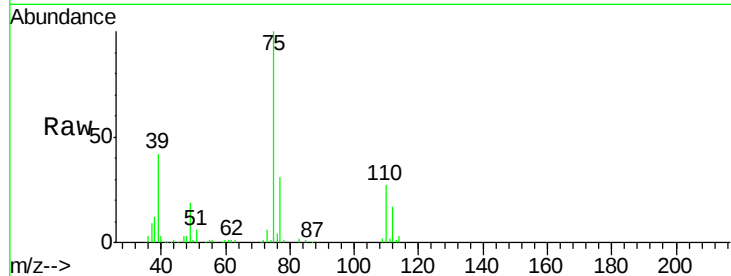
Instrument :
MSVOA_N
ClientSampleId :
LF015RW050-190604MSD

Tot Ion: 75 Resp: 186479
Ion Ratio Lower Upper
75 100
77 31.0 25.8 38.6

Manual Integrations
APPROVED

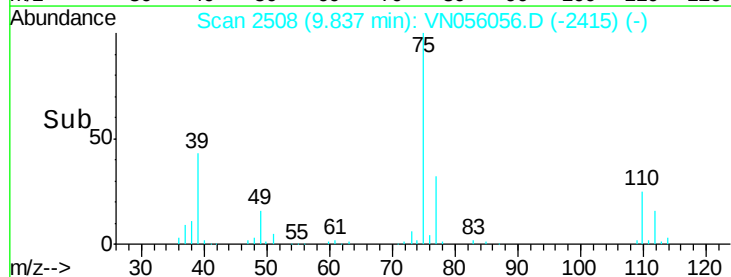
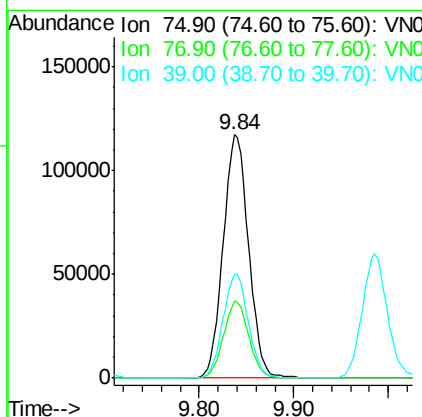
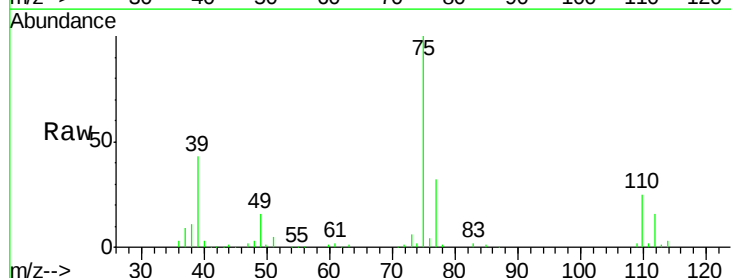
MMDadoda

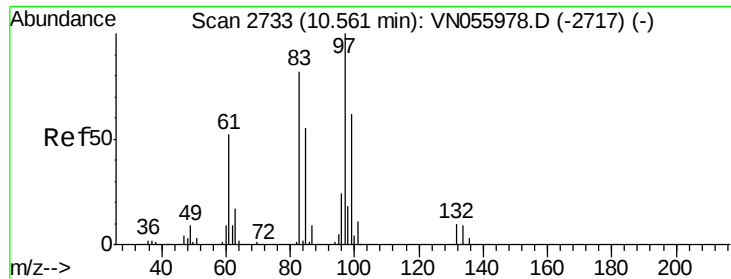
6/7/2019 9:37:05 AM



#54
cis-1,3-Dichloropropene
Concen: 52.100 ug/l
RT: 9.84 min Scan# 2508
Delta R.T. -0.00 min
Lab File: VN056056.D
Acq: 6 Jun 2019 19:32

Tgt Ion: 75 Resp: 218576
Ion Ratio Lower Upper
75 100
77 31.6 25.4 38.0
39 42.7 36.3 54.5





#55

1,1,2-Trichloroethane

Concen: 52.799 ug/l

RT: 10.56 min Scan# 2733

Delta R.T. -0.00 min

Lab File: VN056056.D

Acq: 6 Jun 2019 19:32

Instrument :

MSVOA_N

ClientSampleId :

LF015RW050-190604MSD

Tot Ion: 97 Resp: 149629

Ion Ratio Lower Upper

97 100

83 86.3 67.0 100.6

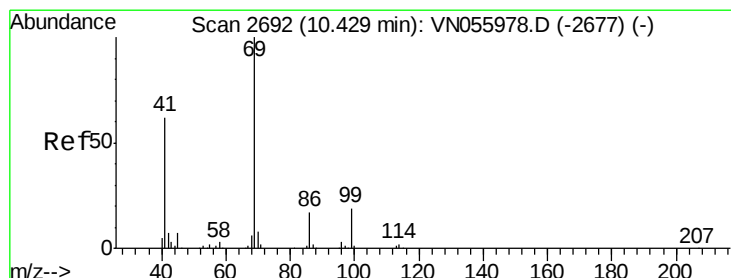
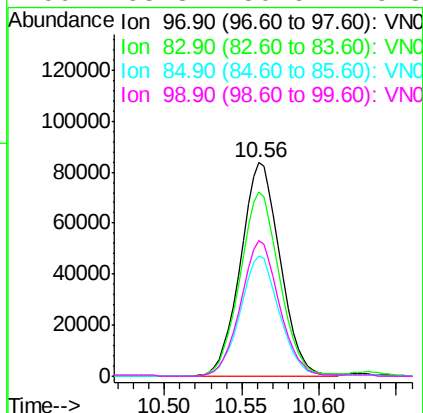
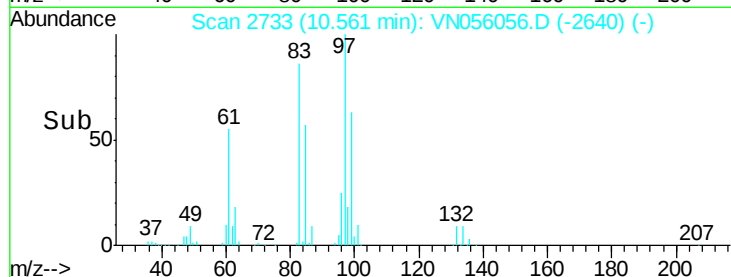
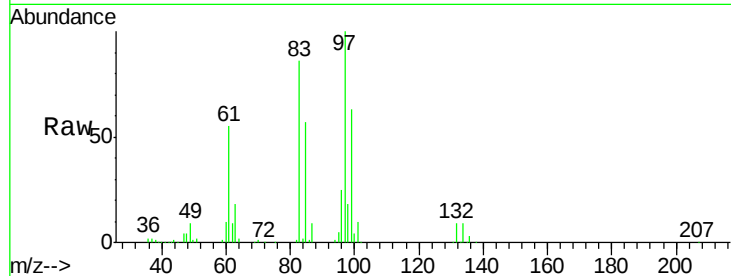
85 56.6 44.0 66.0

99 63.3 50.6 75.8

Manual Integrations
APPROVED

MMDadoda

6/7/2019 9:37:05 AM



#56

Ethyl methacrylate

Concen: 54.585 ug/l

RT: 10.43 min Scan# 2692

Delta R.T. -0.00 min

Lab File: VN056056.D

Acq: 6 Jun 2019 19:32

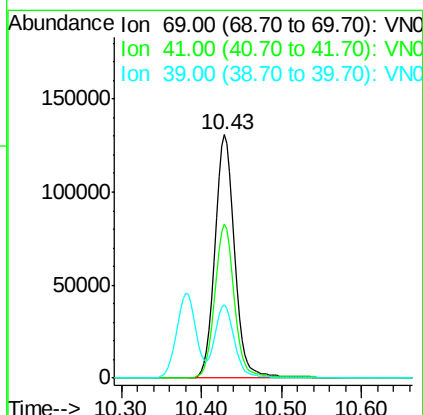
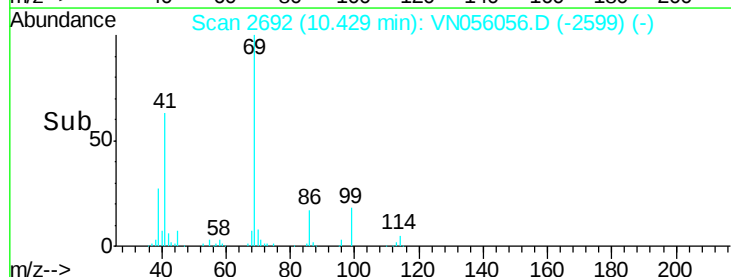
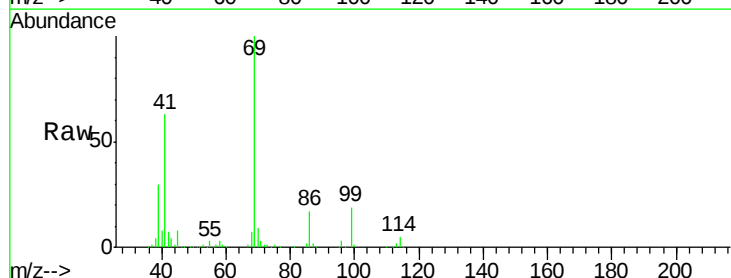
Tgt Ion: 69 Resp: 225673

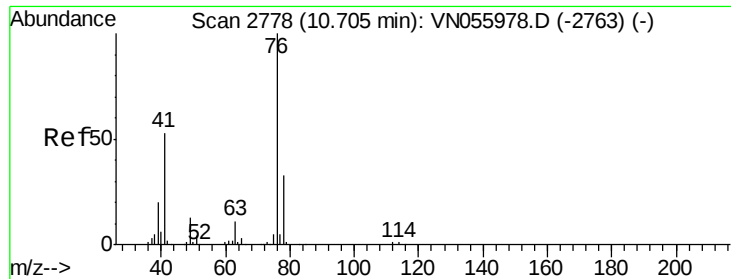
Ion Ratio Lower Upper

69 100

41 61.6 49.7 74.5

39 29.3 24.7 37.1





#57

1,3-Dichloropropane

Concen: 52.878 ug/l

RT: 10.71 min Scan# 2778

Delta R.T. -0.00 min

Lab File: VN056056.D

Acq: 6 Jun 2019 19:32

Instrument :

MSVOA_N

ClientSampleId :

LF015RW050-190604MSD

Tot Ion: 76 Resp: 243606

Ion Ratio Lower Upper

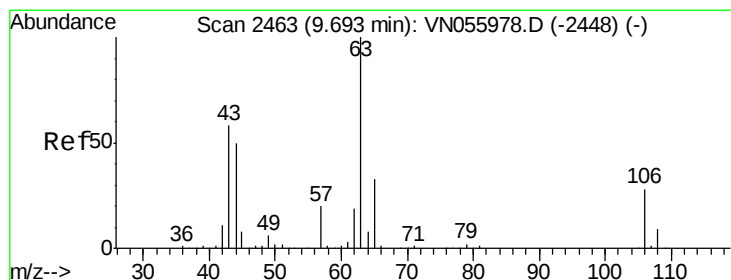
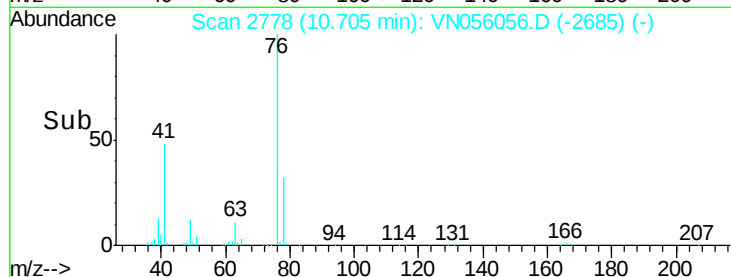
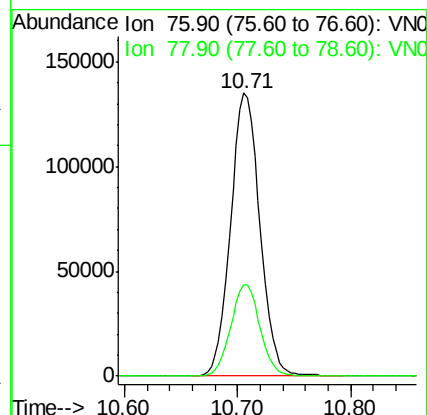
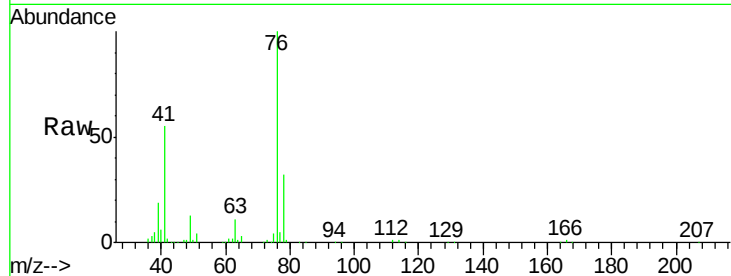
76 100

78 32.4 25.8 38.6

Manual Integrations
APPROVED

MMDadoda

6/7/2019 9:37:05 AM



#58

2-Chloroethyl Vinyl ether

Concen: 245.574 ug/l

RT: 9.70 min Scan# 2464

Delta R.T. 0.00 min

Lab File: VN056056.D

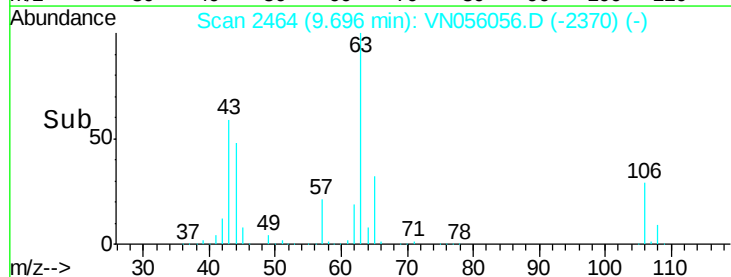
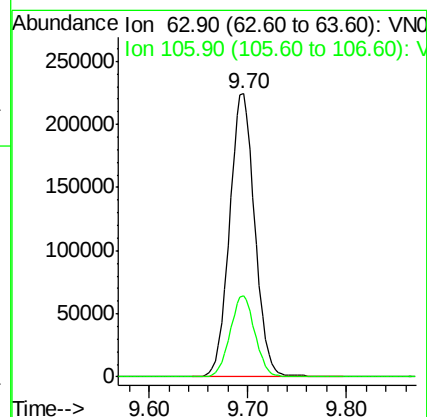
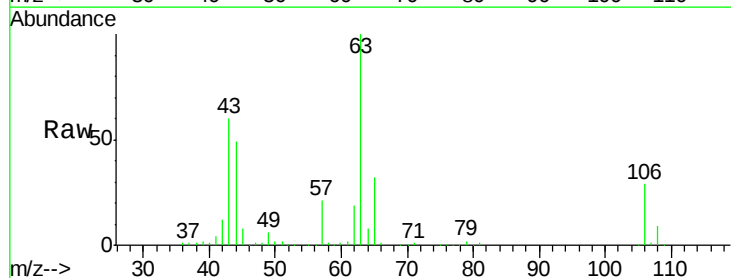
Acq: 6 Jun 2019 19:32

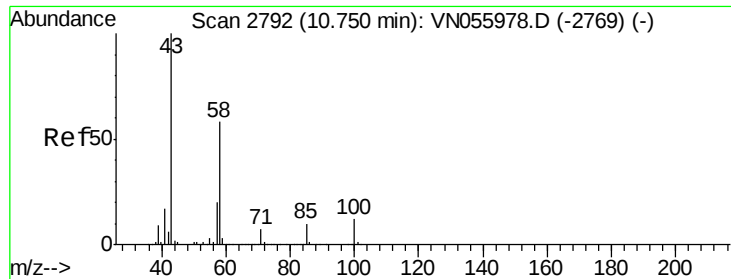
Tgt Ion: 63 Resp: 402090

Ion Ratio Lower Upper

63 100

106 28.2 22.7 34.1





#59
2-Hexanone
Concen: 265.041 ug/l
RT: 10.75 min Scan# 2793
Delta R.T. 0.00 min
Lab File: VN056056.D
Acq: 6 Jun 2019 19:32

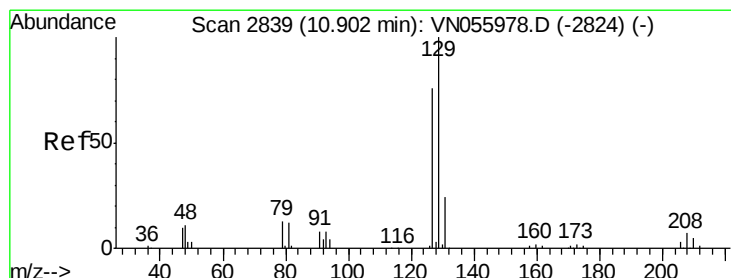
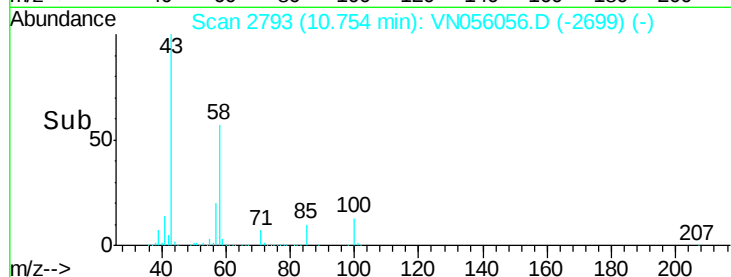
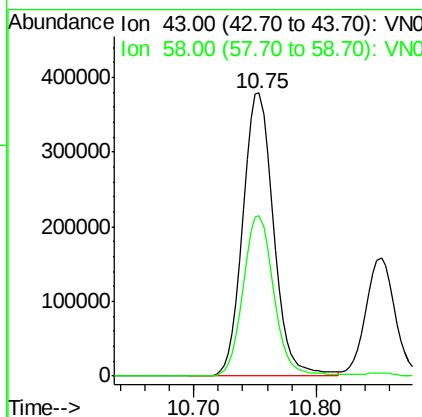
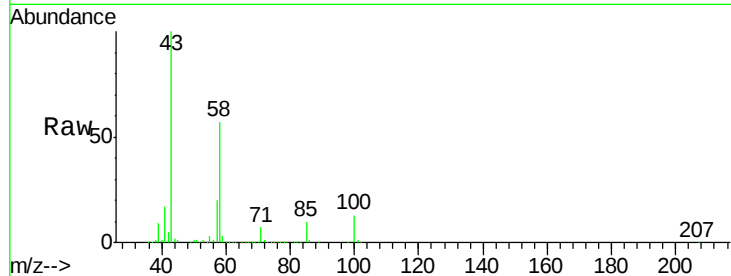
Instrument :
MSVOA_N
ClientSampleId :
LF015RW050-190604MSD

Tot Ion: 43 Resp: 655644
Ion Ratio Lower Upper
43 100
58 56.7 28.2 84.7

Manual Integrations
APPROVED

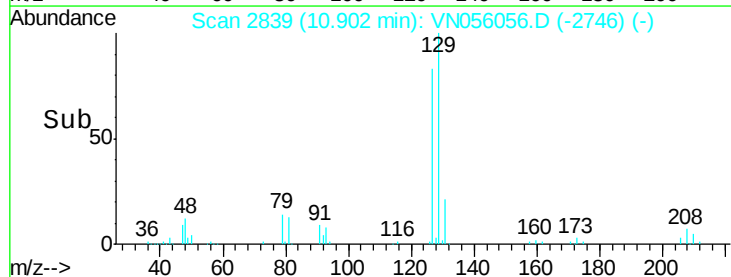
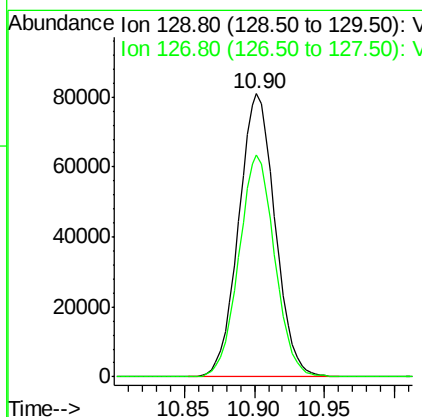
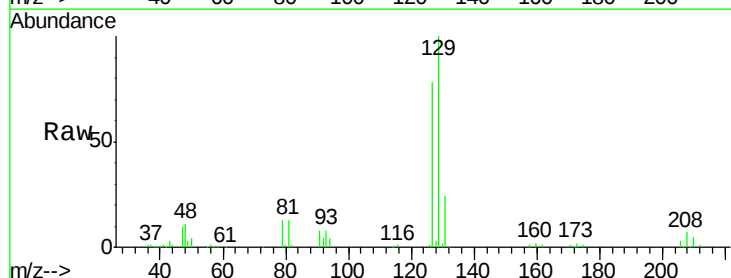
MMDadoda

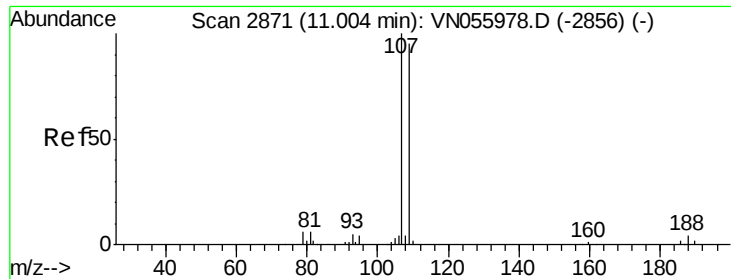
6/7/2019 9:37:05 AM



#60
Dibromochloromethane
Concen: 47.056 ug/l
RT: 10.90 min Scan# 2839
Delta R.T. 0.00 min
Lab File: VN056056.D
Acq: 6 Jun 2019 19:32

Tgt Ion: 129 Resp: 146601
Ion Ratio Lower Upper
129 100
127 77.0 38.1 114.3





#61
 1,2-Dibromoethane
 Concen: 53.860 ug/l
 RT: 11.00 min Scan# 2871
 Delta R.T. -0.00 min
 Lab File: VN056056.D
 Acq: 6 Jun 2019 19:32

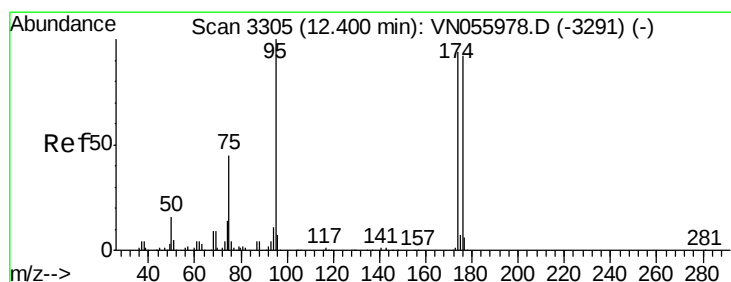
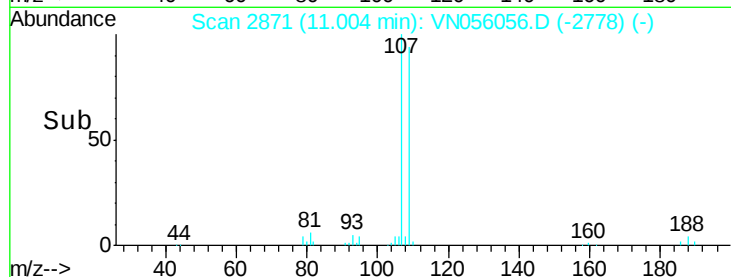
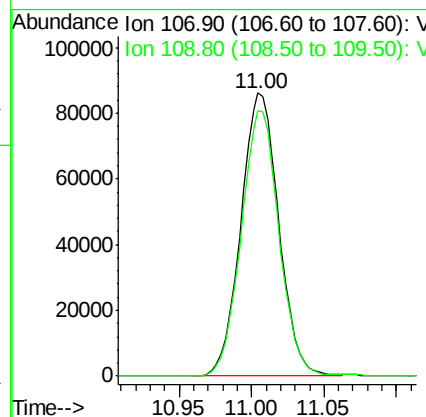
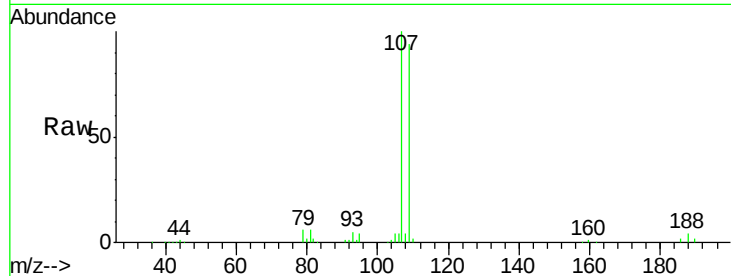
Instrument :
 MSVOA_N
 ClientSampleId :
 LF015RW050-190604MSD

Tot Ion	Ratio	Resp	Lower	Upper
107	100	156038		
109	94.2	74.8	112.2	

Manual Integrations
 APPROVED

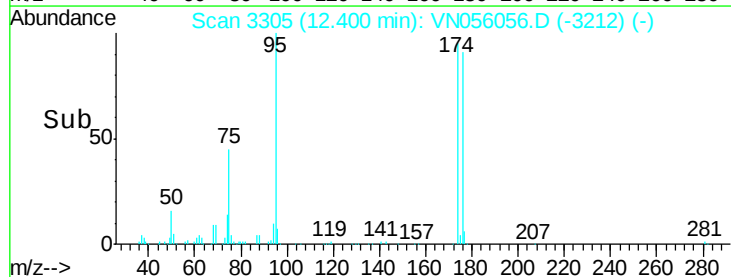
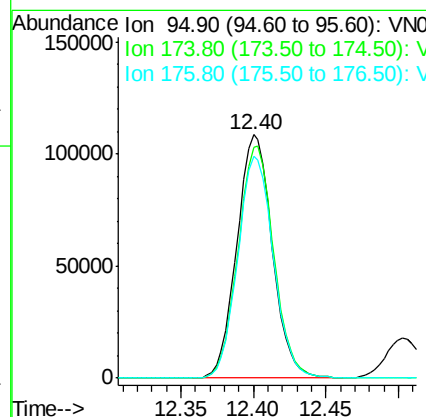
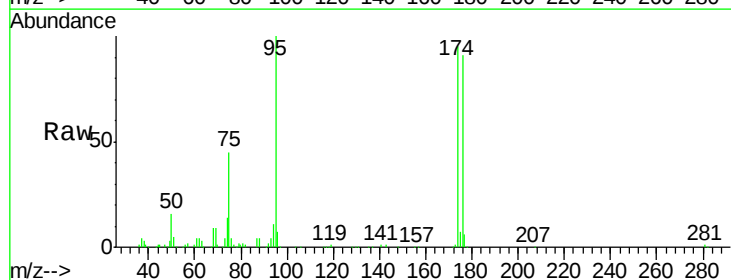
MMDadoda

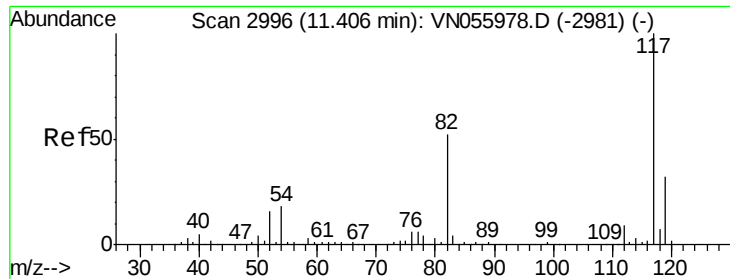
6/7/2019 9:37:05 AM



#62
 4-Bromofluorobenzene
 Concen: 52.229 ug/l
 RT: 12.40 min Scan# 3305
 Delta R.T. -0.00 min
 Lab File: VN056056.D
 Acq: 6 Jun 2019 19:32

Tgt Ion	Ratio	Resp	Lower	Upper
95	100	184606		
174	95.8	0.0	191.0	
176	91.7	0.0	185.2	





#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.41 min Scan# 2996
Delta R.T. -0.00 min
Lab File: VN056056.D
Acq: 6 Jun 2019 19:32

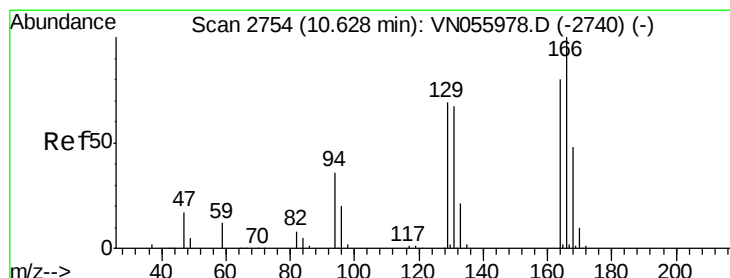
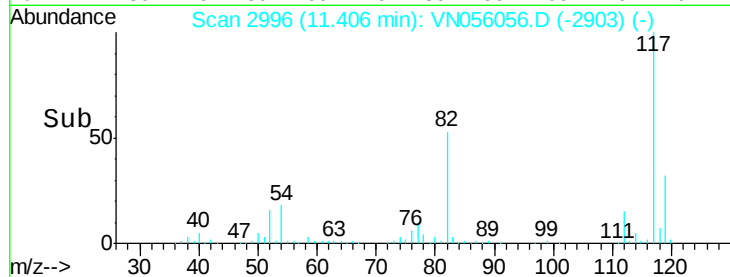
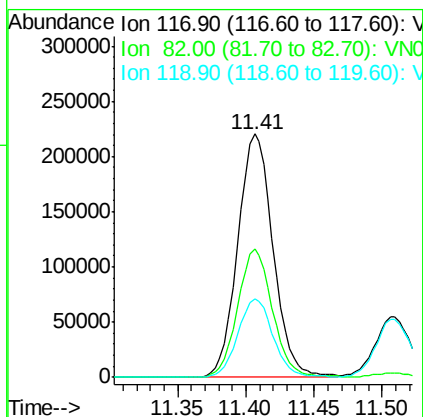
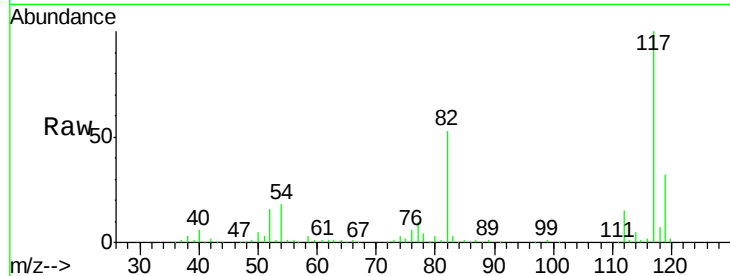
Instrument :
MSVOA_N
ClientSampleId :
LF015RW050-190604MSD

Tot Ion	Ratio	Lower	Upper
117	100		
82	52.7	41.8	62.8
119	32.2	25.4	38.0

Manual Integrations
APPROVED

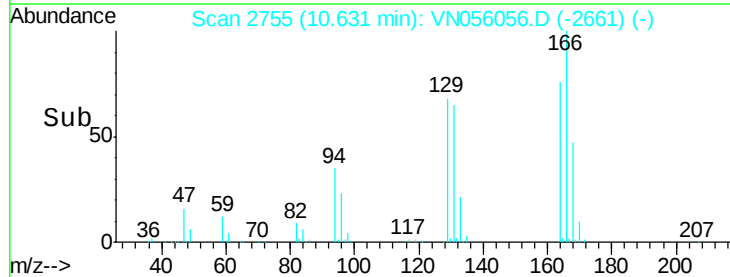
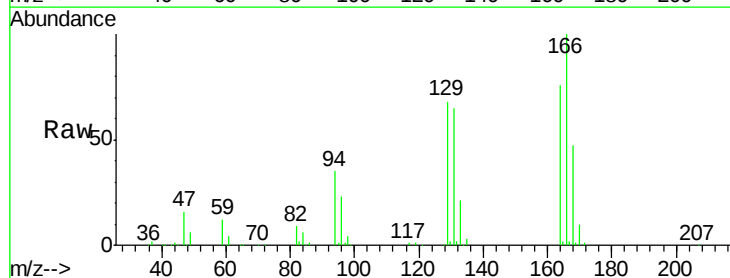
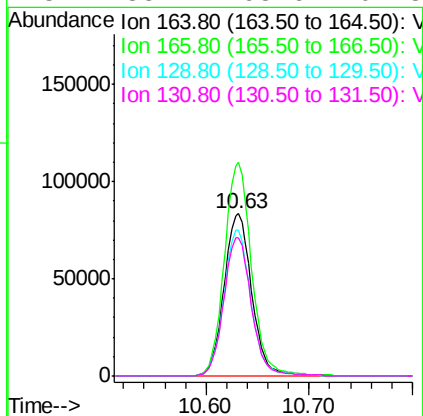
MMDadoda

6/7/2019 9:37:05 AM



#64
Tetrachloroethene
Concen: 45.548 ug/l
RT: 10.63 min Scan# 2755
Delta R.T. 0.00 min
Lab File: VN056056.D
Acq: 6 Jun 2019 19:32

Tgt Ion	Ratio	Lower	Upper
164	100		
166	131.8	103.0	154.6
129	90.0	70.6	105.8
131	85.7	68.6	102.8





#65

Chlorobenzene

Concen: 98.120 ug/l

RT: 11.43 min Scan# 3004

Delta R.T. -0.00 min

Lab File: VN056056.D

Acq: 6 Jun 2019 19:32

Instrument :

MSVOA_N

ClientSampleId :

LF015RW050-190604MSD

Tot Ion:112 Resp: 774813

Ion Ratio Lower Upper

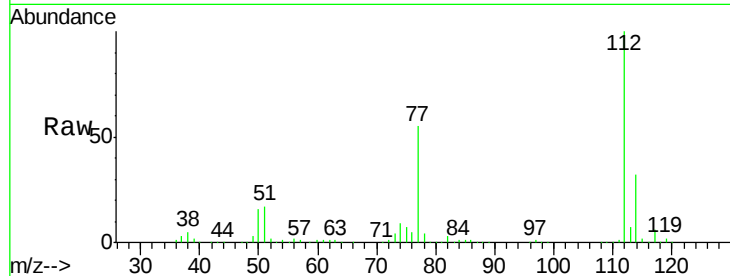
112 100

114 32.2 26.2 39.4

Manual Integrations
APPROVED

MMDadoda

6/7/2019 9:37:05 AM



Abundance Ion 111.90 (111.60 to 112.60): V

Ion 113.90 (113.60 to 114.60): V

11.43

400000

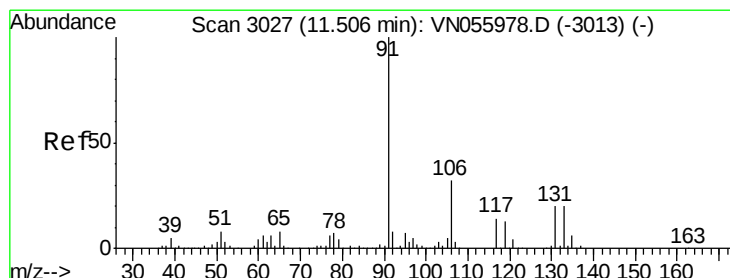
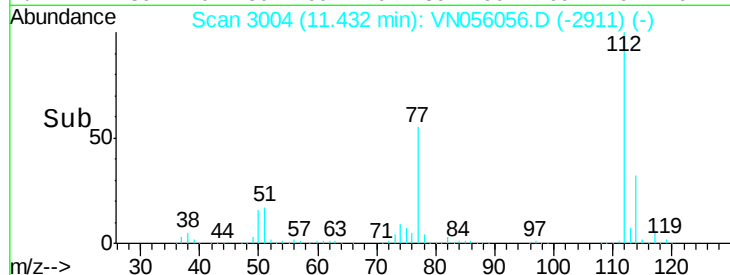
300000

200000

100000

0

Time--> 11.30 11.40 11.50 11.60



#66

1,1,1,2-Tetrachloroethane

Concen: 52.414 ug/l

RT: 11.51 min Scan# 3028

Delta R.T. 0.00 min

Lab File: VN056056.D

Acq: 6 Jun 2019 19:32

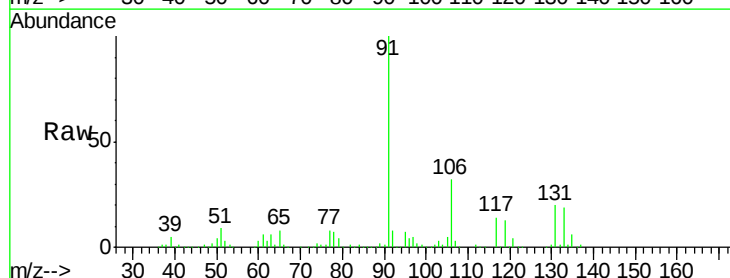
Tgt Ion:131 Resp: 142911

Ion Ratio Lower Upper

131 100

133 94.1 48.0 144.0

119 65.6 33.1 99.5



Abundance Ion 130.80 (130.50 to 131.50): V

Ion 132.80 (132.50 to 133.50): V

Ion 118.80 (118.50 to 119.50): V

11.51

100000

80000

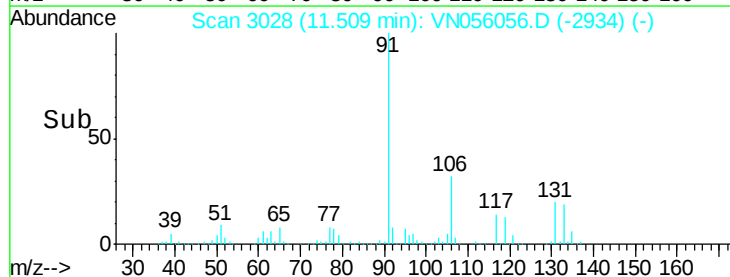
60000

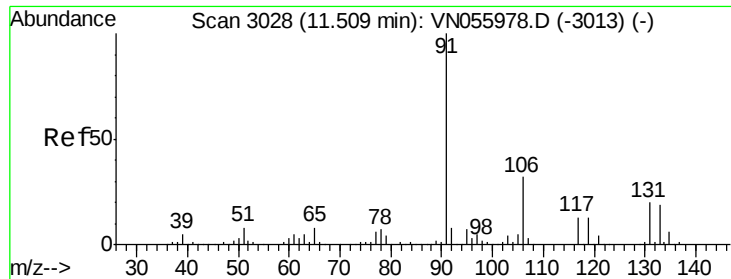
40000

20000

0

Time--> 11.45 11.50 11.55 11.60





#67
Ethyl Benzene
Concen: 49.969 ug/l
RT: 11.51 min Scan# 3028
Delta R.T. -0.00 min
Lab File: VN056056.D
Acq: 6 Jun 2019 19:32

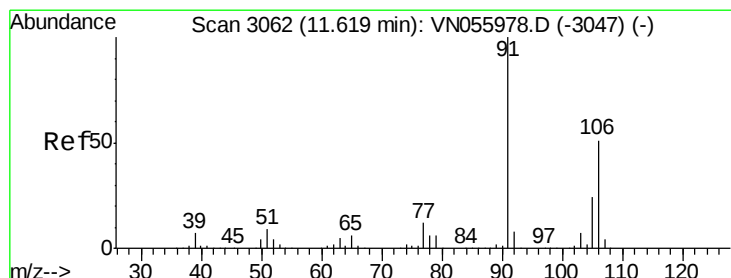
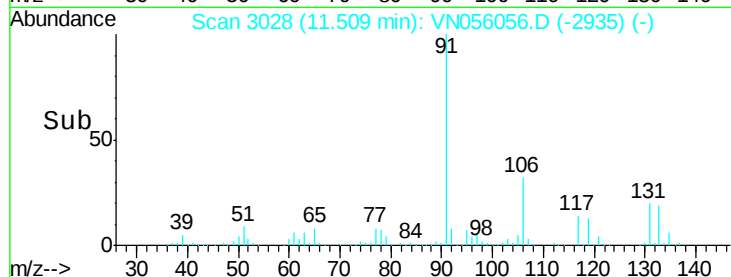
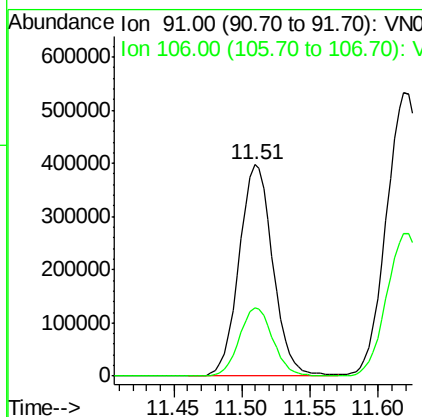
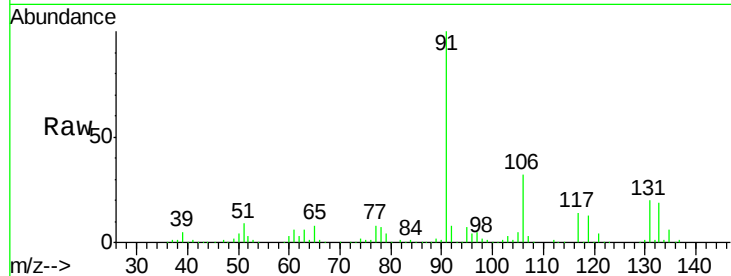
Instrument :
MSVOA_N
ClientSampleId :
LF015RW050-190604MSD

Tot Ion: 91 Resp: 686113
Ion Ratio Lower Upper
91 100
106 32.4 25.1 37.7

Manual Integrations
APPROVED

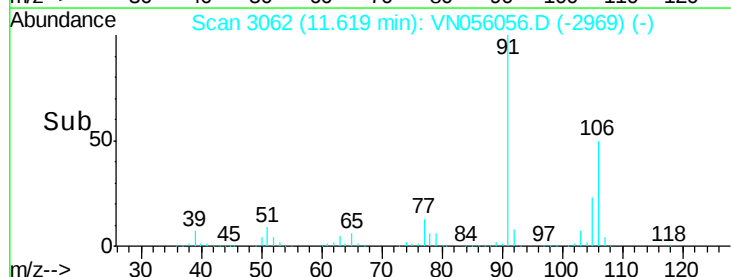
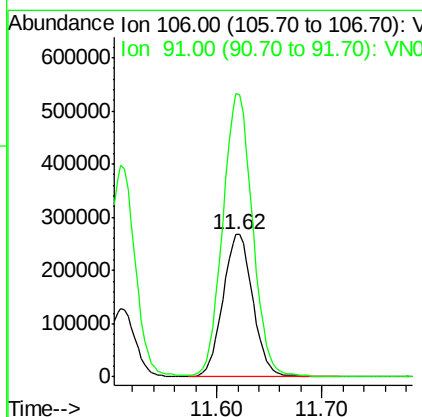
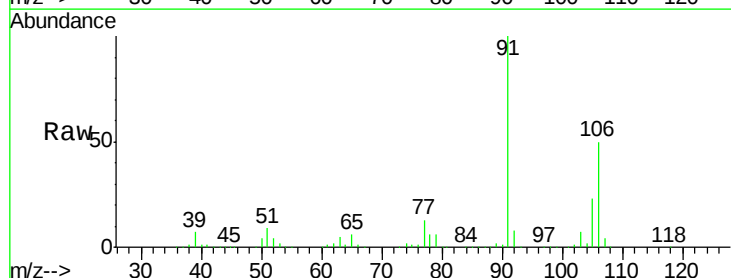
MMDadoda

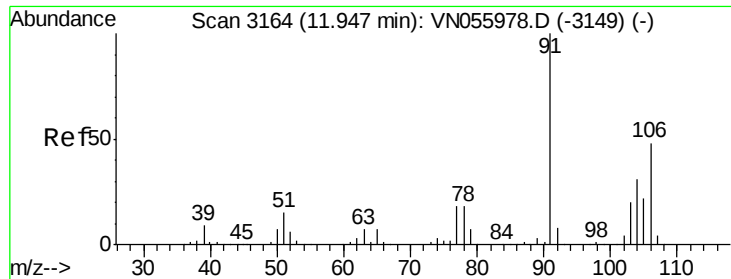
6/7/2019 9:37:05 AM



#68
m/p-Xylenes
Concen: 100.236 ug/l
RT: 11.62 min Scan# 3062
Delta R.T. -0.00 min
Lab File: VN056056.D
Acq: 6 Jun 2019 19:32

Tgt Ion: 106 Resp: 525770
Ion Ratio Lower Upper
106 100
91 198.2 159.3 238.9





#69
o-Xylene
Concen: 50.470 ug/l
RT: 11.95 min Scan# 3164
Delta R.T. -0.00 min
Lab File: VN056056.D
Acq: 6 Jun 2019 19:32

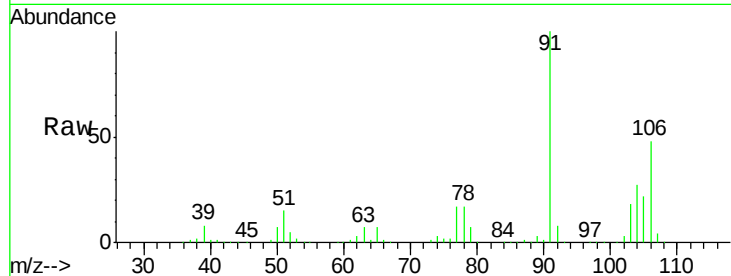
Instrument :
MSVOA_N
ClientSampleId :
LF015RW050-190604MSD

Tot Ion:106 Resp: 260409
Ion Ratio Lower Upper
106 100
91 207.5 104.7 314.1

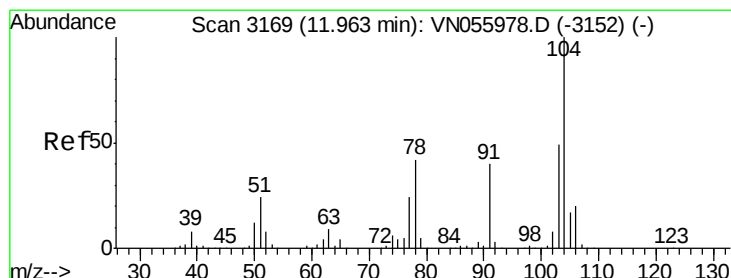
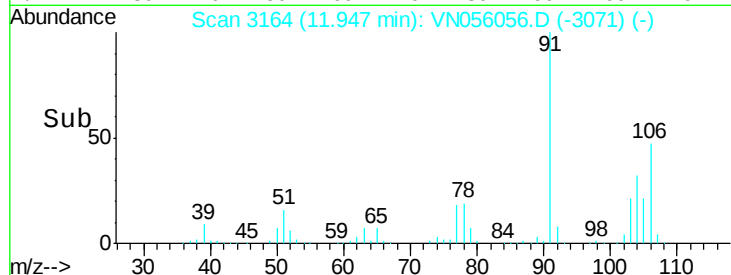
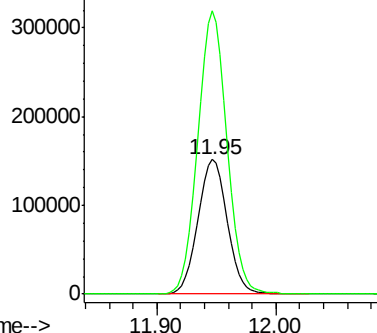
Manual Integrations
APPROVED

MMDadoda

6/7/2019 9:37:05 AM

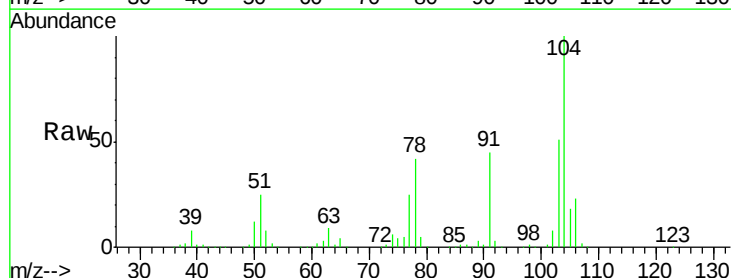


Abundance Ion 106.00 (105.70 to 106.70): V
Ion 91.00 (90.70 to 91.70): VN

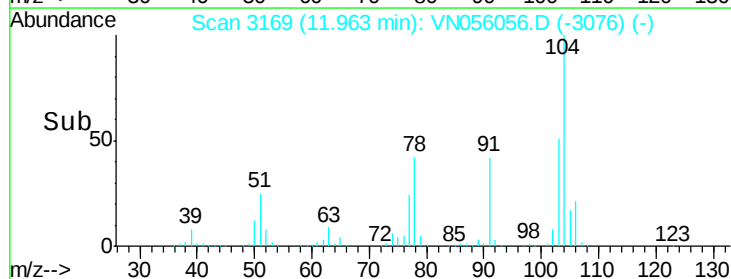
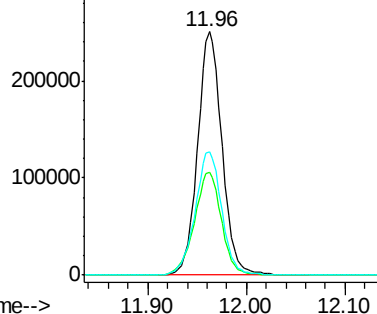


#70
Styrene
Concen: 52.823 ug/l
RT: 11.96 min Scan# 3169
Delta R.T. -0.00 min
Lab File: VN056056.D
Acq: 6 Jun 2019 19:32

Tgt Ion:104 Resp: 433037
Ion Ratio Lower Upper
104 100
78 46.8 37.8 56.6
103 55.2 44.2 66.2



Abundance Ion 104.00 (103.70 to 104.70): V
Ion 78.00 (77.70 to 78.70): VN
Ion 103.00 (102.70 to 103.70): V





#71
Bromoform
Concen: 45.650 ug/l
RT: 12.13 min Scan# 3220
Delta R.T. 0.00 min
Lab File: VN056056.D
Acq: 6 Jun 2019 19:32

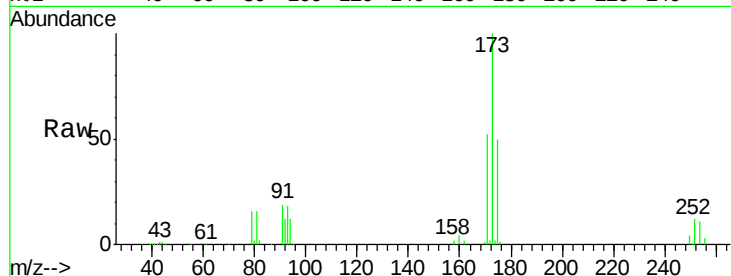
Instrument :
MSVOA_N
ClientSampleId :
LF015RW050-190604MSD

Tot Ion	Ratio	Lower	Upper
173	100		
175	49.8	24.3	72.8
254	0.0	0.0	0.0

Manual Integrations
APPROVED

MMDadoda

6/7/2019 9:37:05 AM

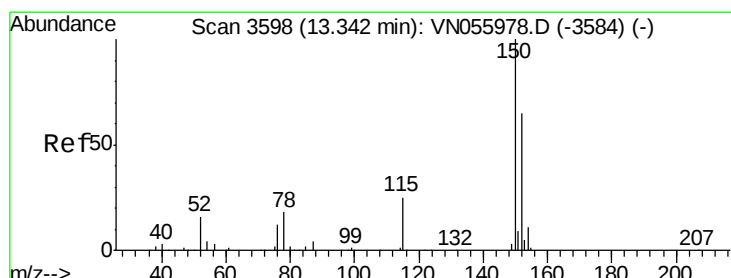
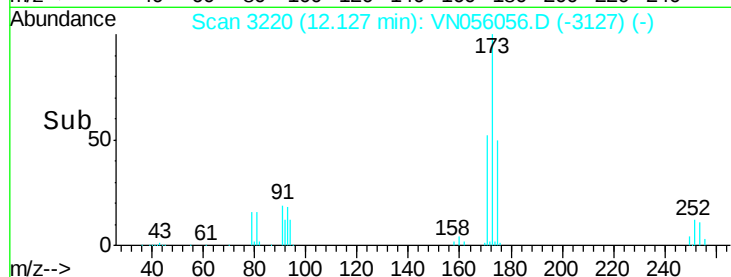
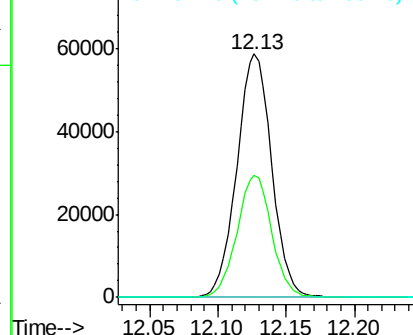


Abundance

Ion 172.70 (172.40 to 173.40): V

Ion 174.70 (174.40 to 175.40): V

Ion 254.40 (254.10 to 255.10): V



#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 13.34 min Scan# 3598
Delta R.T. -0.00 min
Lab File: VN056056.D
Acq: 6 Jun 2019 19:32

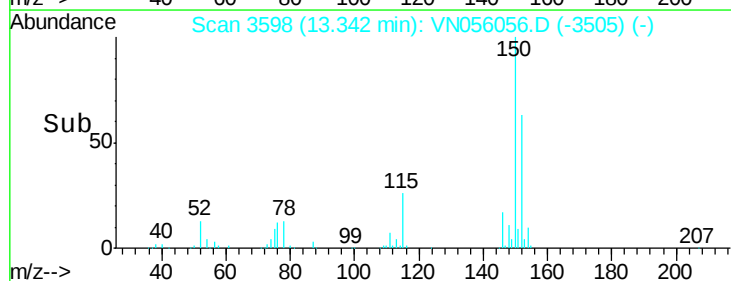
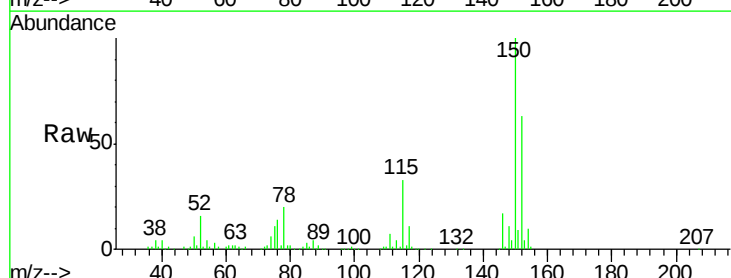
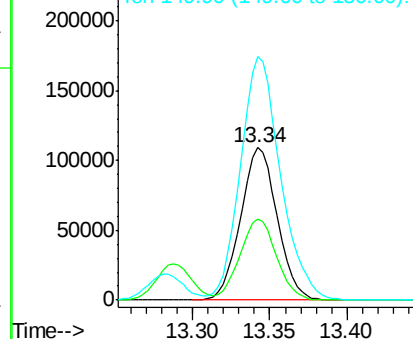
Tgt Ion	Ratio	Lower	Upper
152	100		
115	53.2	27.0	81.0
150	175.2	0.0	343.2

Abundance

Ion 151.90 (151.60 to 152.60): V

Ion 114.90 (114.60 to 115.60): V

Ion 149.90 (149.60 to 150.60): V





#73

Isopropylbenzene

Concen: 52.986 ug/l

RT: 12.25 min Scan# 3258

Delta R.T. 0.00 min

Lab File: VN056056.D

Acq: 6 Jun 2019 19:32

Instrument :

MSVOA_N

ClientSampleId :

LF015RW050-190604MSD

Tot Ion: 105 Resp: 675940

Ion Ratio Lower Upper

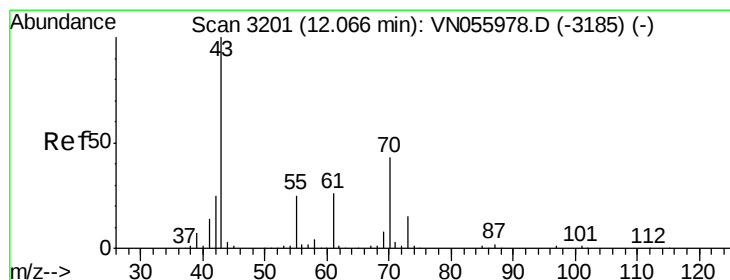
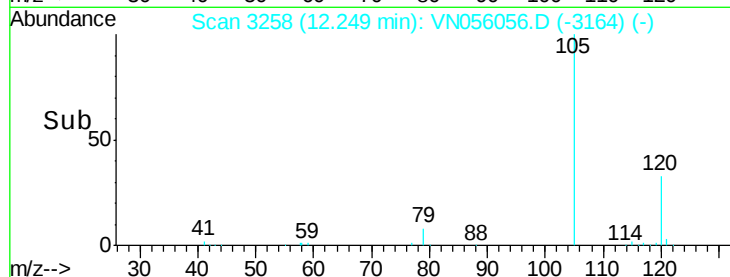
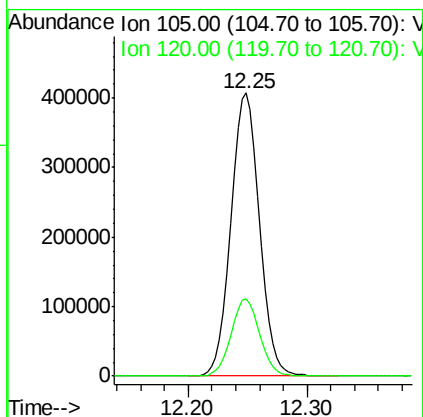
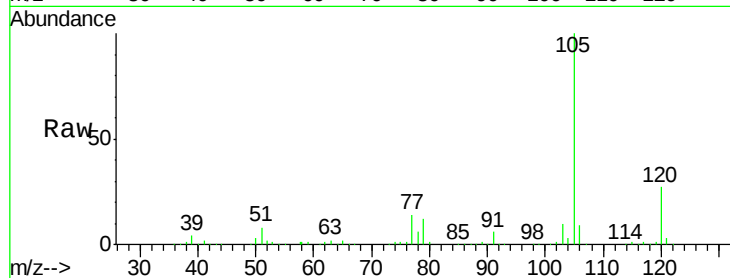
105 100

120 27.3 13.6 40.7

Manual Integrations
APPROVED

MMDadoda

6/7/2019 9:37:05 AM



#74

N-ethyl acetate

Concen: 51.087 ug/l

RT: 12.07 min Scan# 3202

Delta R.T. 0.00 min

Lab File: VN056056.D

Acq: 6 Jun 2019 19:32

Tgt Ion: 43 Resp: 244390

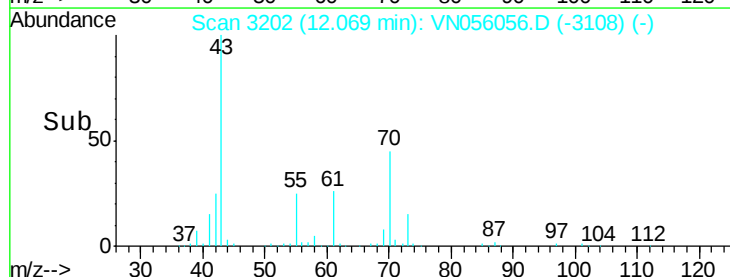
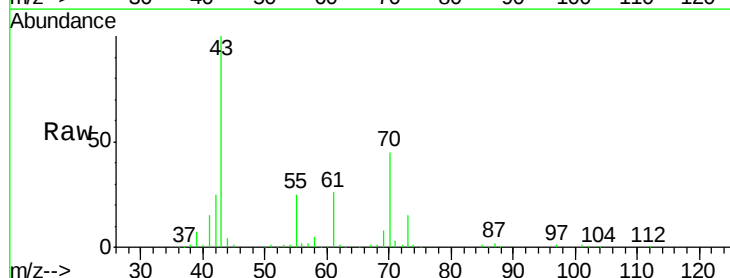
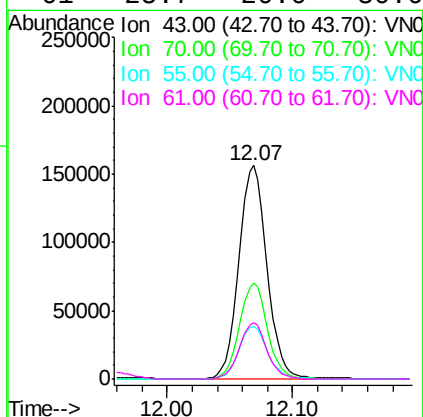
Ion Ratio Lower Upper

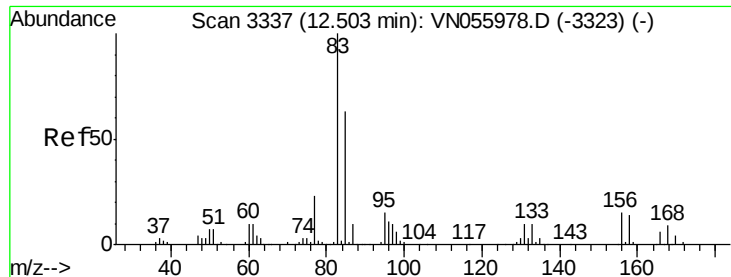
43 100

70 44.6 34.0 51.0

55 25.1 18.6 28.0

61 25.7 20.0 30.0





#75

1,1,2,2-Tetrachloroethane

Concen: 49.788 ug/l

RT: 12.50 min Scan# 3337

Delta R.T. -0.00 min

Lab File: VN056056.D

Acq: 6 Jun 2019 19:32

Instrument :

MSVOA_N

ClientSampleId :

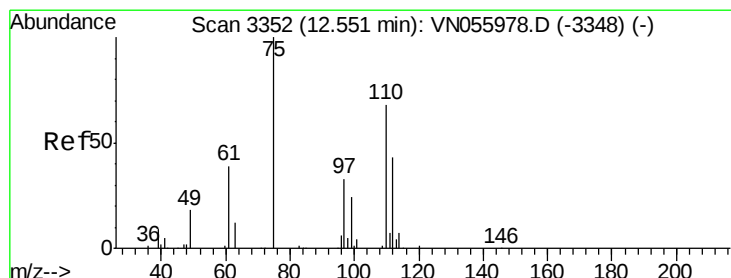
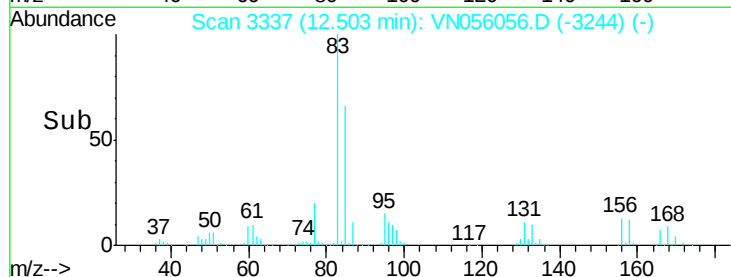
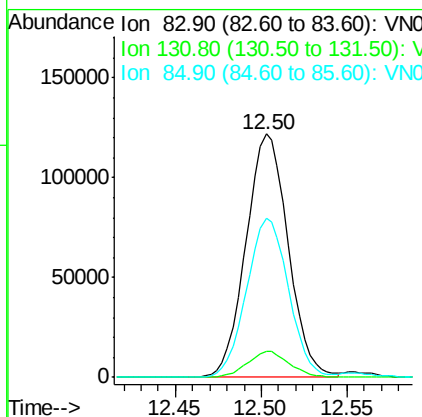
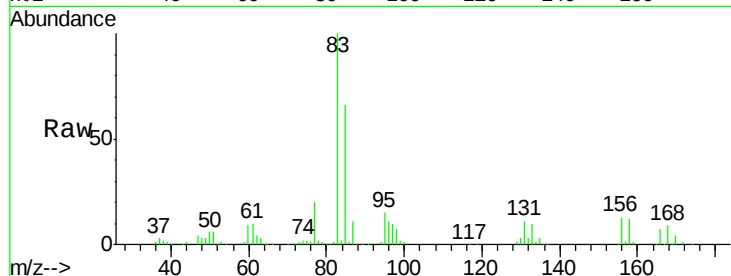
LF015RW050-190604MSD

Tot Ion:	83	Resp:	207420
Ion Ratio	Lower	Upper	
83	100		
131	10.7	5.4	16.2
85	65.0	32.4	97.0

Manual Integrations
APPROVED

MMDadoda

6/7/2019 9:37:05 AM



#76

1,2,3-Trichloropropane

Concen: 50.744 ug/l m

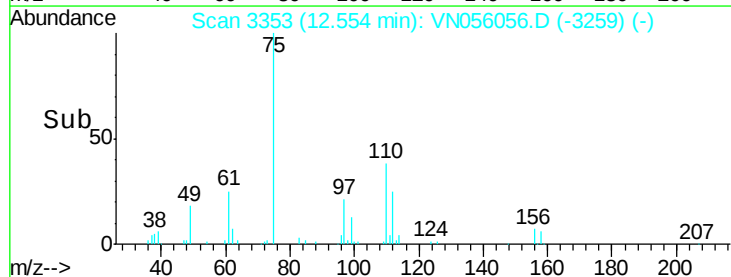
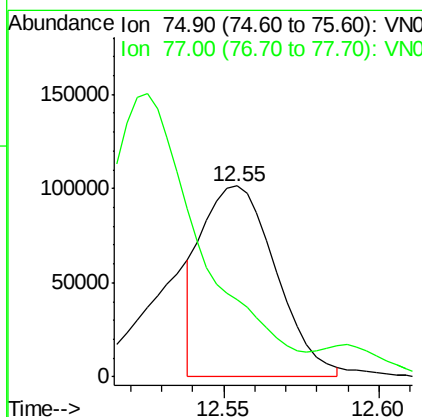
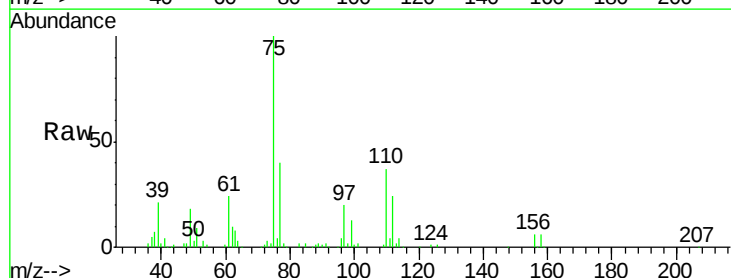
RT: 12.55 min Scan# 3353

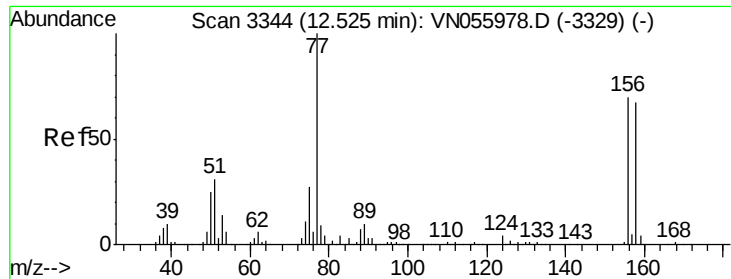
Delta R.T. 0.00 min

Lab File: VN056056.D

Acq: 6 Jun 2019 19:32

Tgt Ion:	75	Resp:	167565
Ion Ratio	Lower	Upper	
75	100		
77	0.0	0.0	0.0





#77

Bromobenzene

Concen: 47.857 ug/l

RT: 12.53 min Scan# 3344

Delta R.T. -0.00 min

Lab File: VN056056.D

Acq: 6 Jun 2019 19:32

Instrument :

MSVOA_N

ClientSampleId :

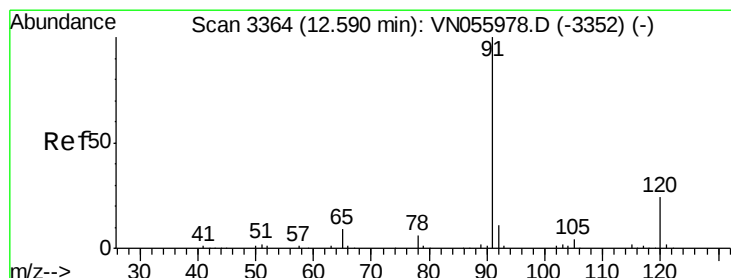
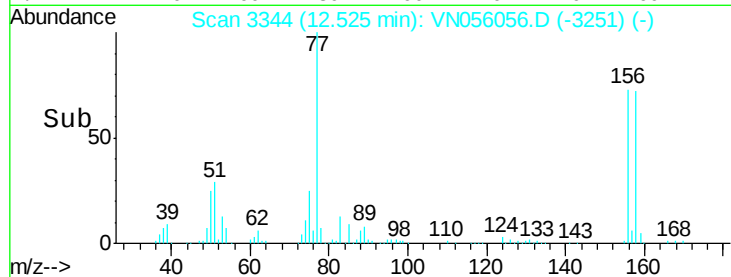
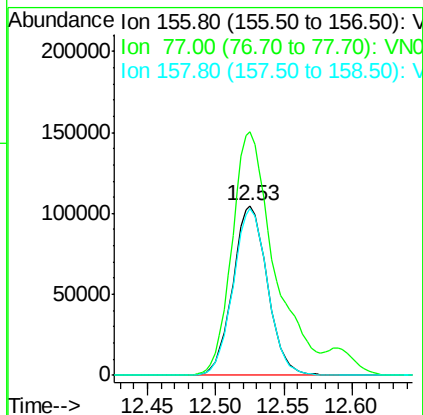
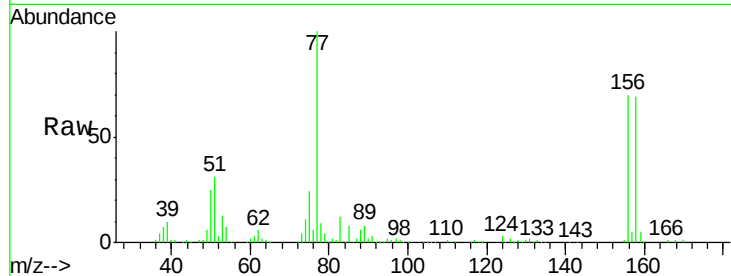
LF015RW050-190604MSD

Tot Ion:	156	Resp:	183878
Ion Ratio	Lower	Upper	
156	100		
77	176.0	90.8	272.5
158	98.0	49.3	147.8

Manual Integrations
APPROVED

MMDadoda

6/7/2019 9:37:05 AM



#78

n-propylbenzene

Concen: 47.718 ug/l

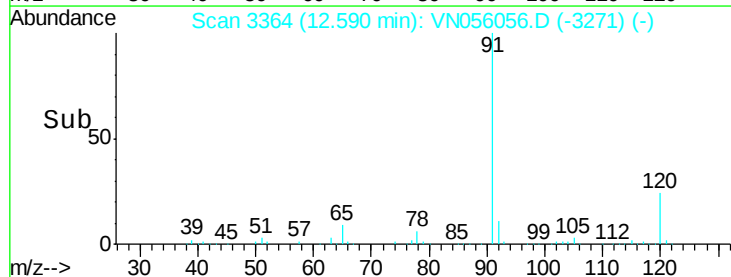
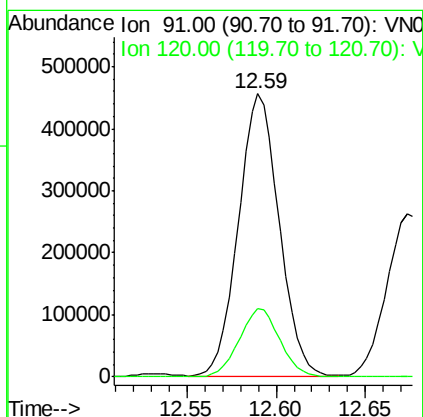
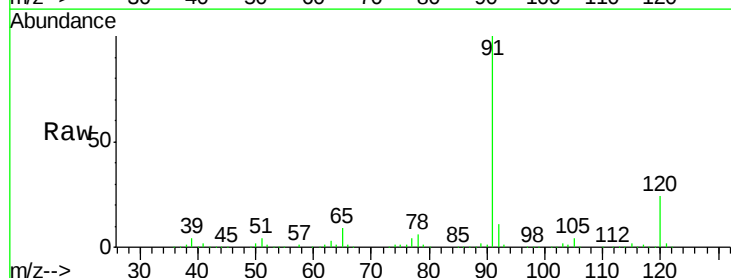
RT: 12.59 min Scan# 3364

Delta R.T. -0.00 min

Lab File: VN056056.D

Acq: 6 Jun 2019 19:32

Tgt Ion:	91	Resp:	724471
Ion Ratio	Lower	Upper	
91	100		
120	24.3	12.0	36.0





#79

2-Chlorotoluene

Concen: 53.328 ug/l

RT: 12.67 min Scan# 3390

Delta R.T. 0.00 min

Lab File: VN056056.D

Acq: 6 Jun 2019 19:32

Instrument :

MSVOA_N

ClientSampleId :

LF015RW050-190604MSD

Tot Ion: 91 Resp: 447779

Ion Ratio Lower Upper

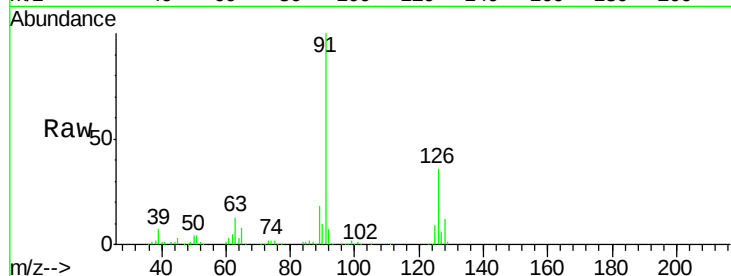
91 100

126 36.1 18.1 54.4

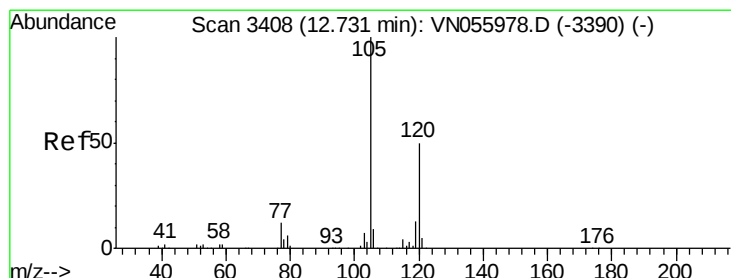
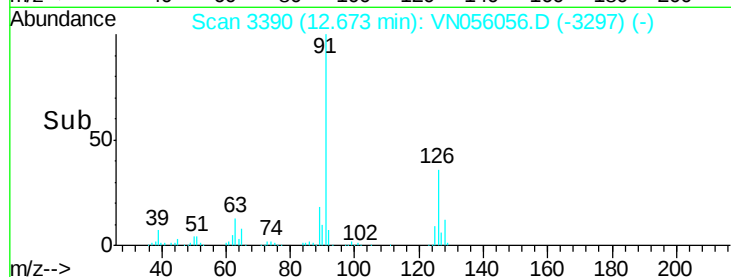
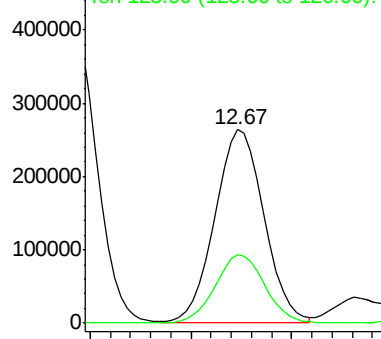
Manual Integrations
APPROVED

MMDadoda

6/7/2019 9:37:05 AM



Abundance Ion 91.00 (90.70 to 91.70): VN055978.D (-3378) (-)



#80

1,3,5-Trimethylbenzene

Concen: 46.431 ug/l

RT: 12.73 min Scan# 3408

Delta R.T. -0.00 min

Lab File: VN056056.D

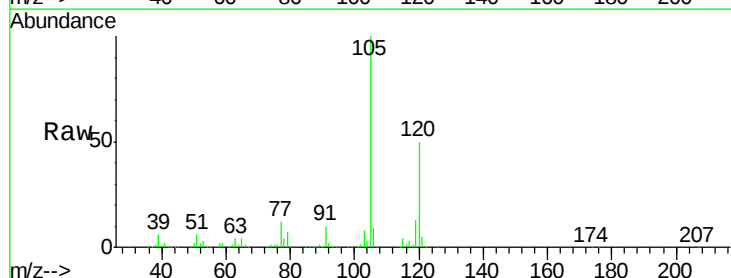
Acq: 6 Jun 2019 19:32

Tgt Ion: 105 Resp: 560246

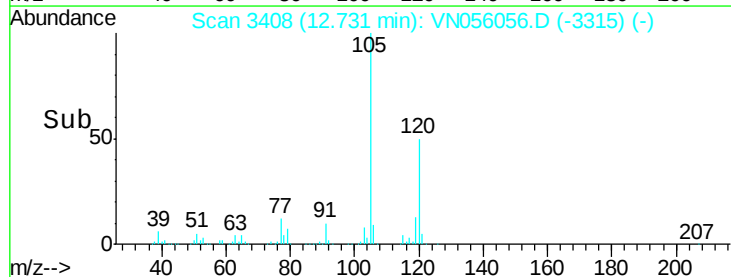
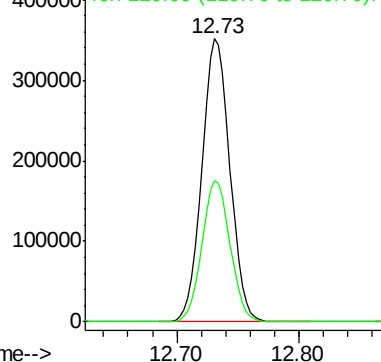
Ion Ratio Lower Upper

105 100

120 50.2 24.7 74.1



Abundance Ion 105.00 (104.70 to 105.70): VN055978.D (-3390) (-)





#81

trans-1,4-Dichloro-2-butene

Concen: 47.025 ug/l

RT: 12.30 min Scan# 3274

Delta R.T. 0.00 min

Lab File: VN056056.D

Acq: 6 Jun 2019 19:32

Instrument :

MSVOA_N

ClientSampleId :

LF015RW050-190604MSD

Tot Ion: 75 Resp: 46629

Ion Ratio Lower Upper

75 100

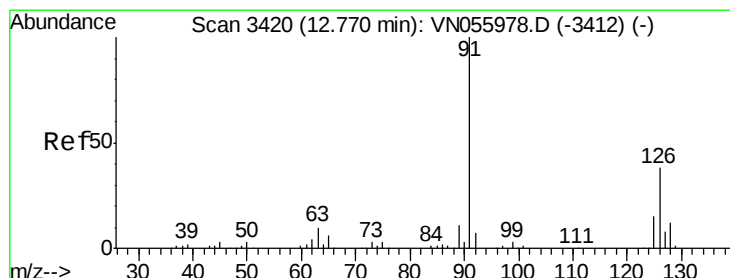
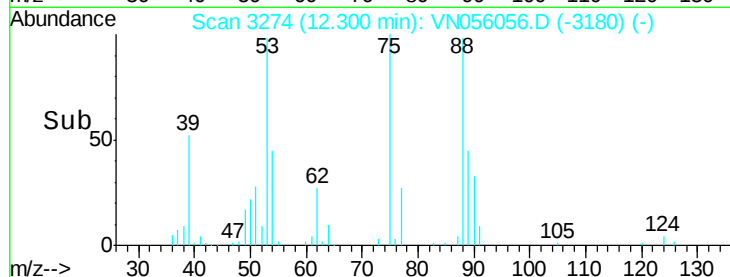
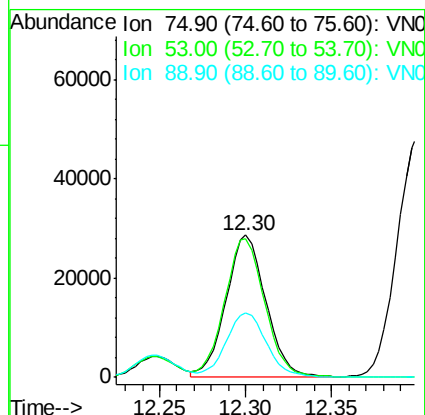
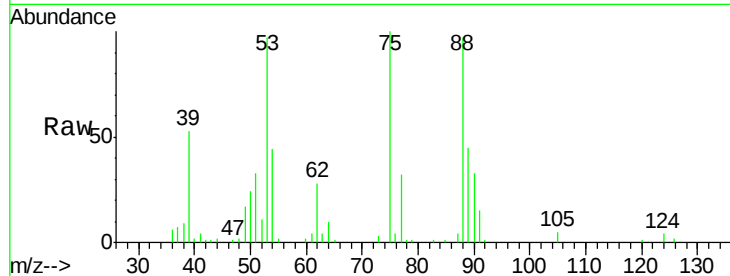
53 98.2 68.1 102.1

89 45.7 36.9 55.3

Manual Integrations
APPROVED

MMDadoda

6/7/2019 9:37:05 AM



#82

4-Chlorotoluene

Concen: 48.950 ug/l

RT: 12.77 min Scan# 3421

Delta R.T. 0.00 min

Lab File: VN056056.D

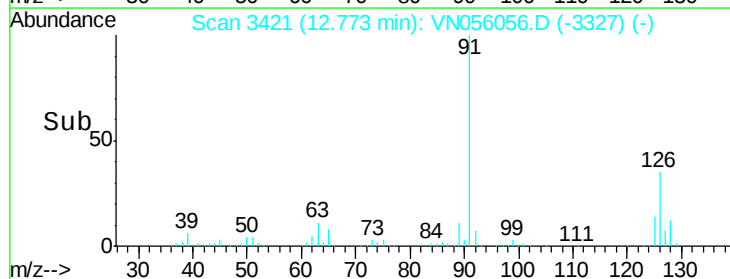
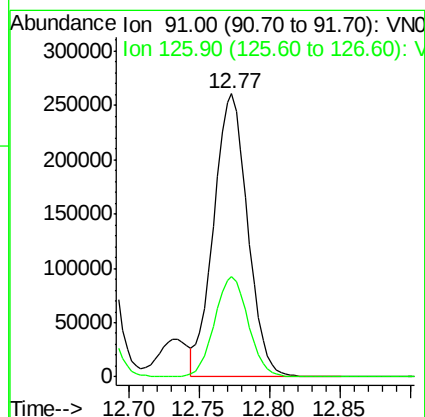
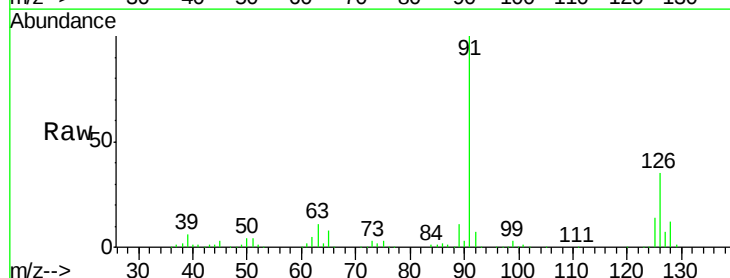
Acq: 6 Jun 2019 19:32

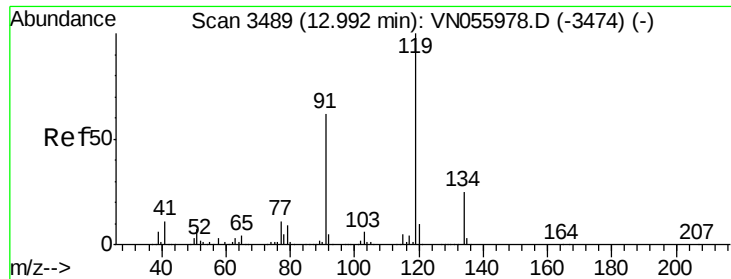
Tgt Ion: 91 Resp: 434791

Ion Ratio Lower Upper

91 100

126 35.4 17.8 53.3





#83
tert-Butylbenzene
Concen: 52.350 ug/l
RT: 12.99 min Scan# 3489
Delta R.T. 0.00 min
Lab File: VN056056.D
Acq: 6 Jun 2019 19:32

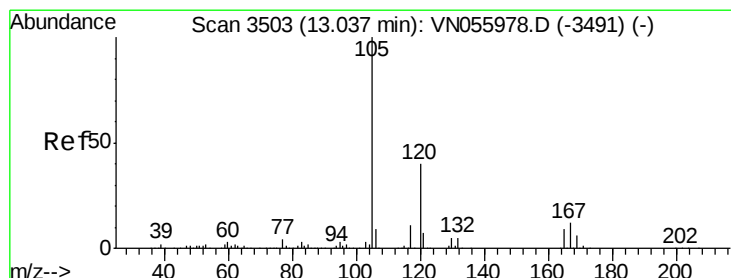
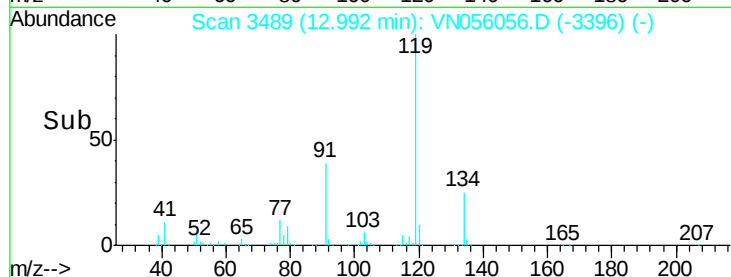
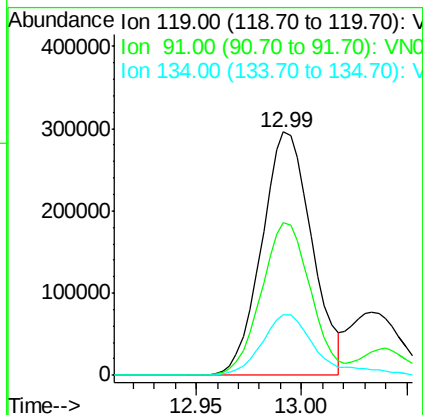
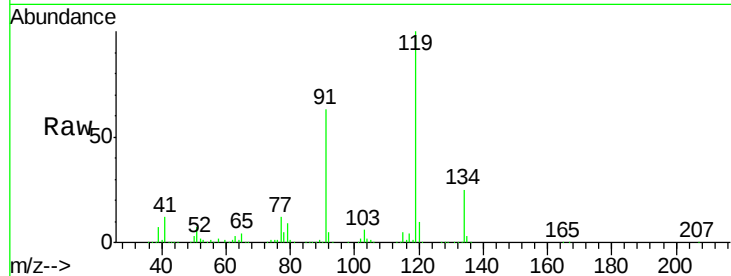
Instrument :
MSVOA_N
ClientSampleId :
LF015RW050-190604MSD

Tot Ion	Ratio	Resp	Lower	Upper
119	100	488902		
91	61.8		30.9	92.8
134	27.0		13.3	39.8

Manual Integrations
APPROVED

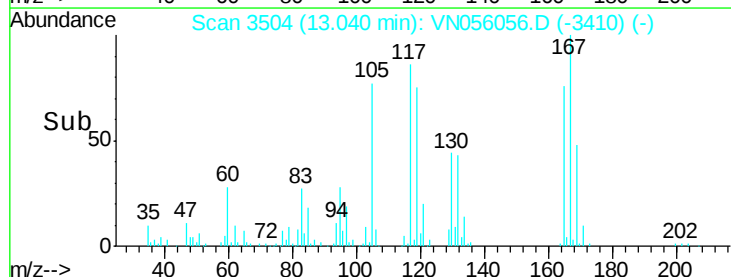
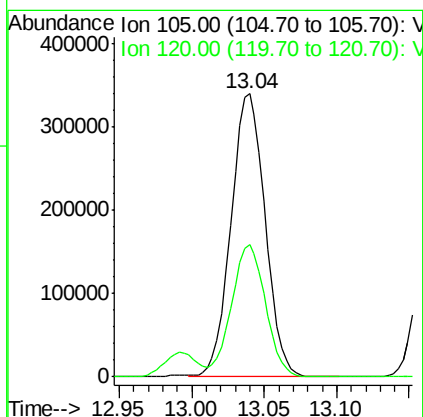
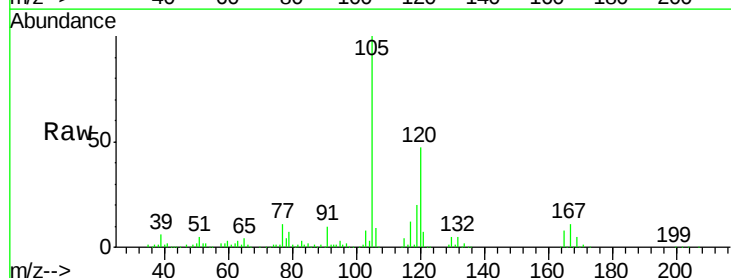
MMDadoda

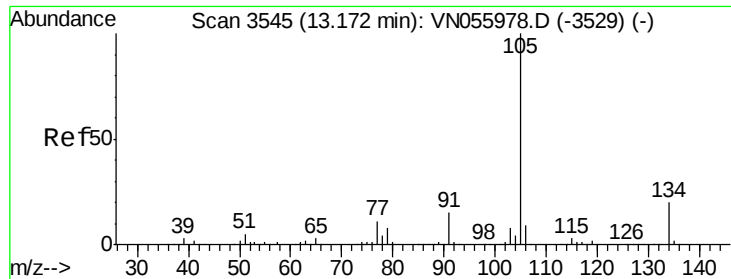
6/7/2019 9:37:05 AM



#84
1,2,4-Trimethylbenzene
Concen: 48.368 ug/l
RT: 13.04 min Scan# 3504
Delta R.T. 0.00 min
Lab File: VN056056.D
Acq: 6 Jun 2019 19:32

Tgt Ion	Ratio	Resp	Lower	Upper
105	100	553439		
120	46.5		23.0	69.0





#85
 sec-Butylbenzene
 Concen: 47.061 ug/l
 RT: 13.17 min Scan# 3545
 Delta R.T. -0.00 min
 Lab File: VN056056.D
 Acq: 6 Jun 2019 19:32

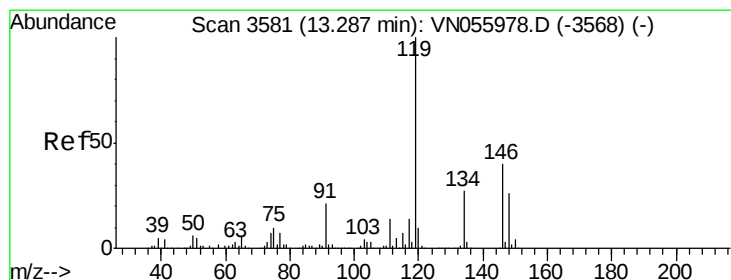
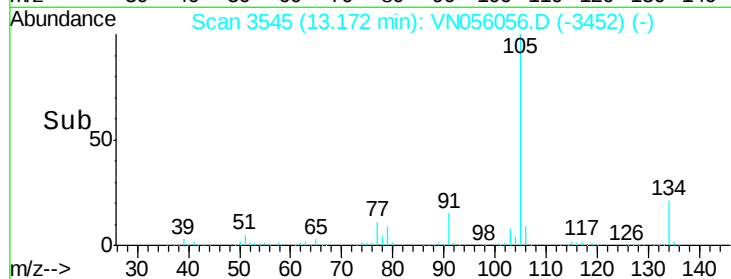
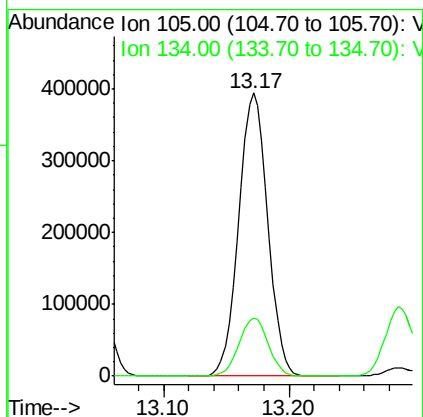
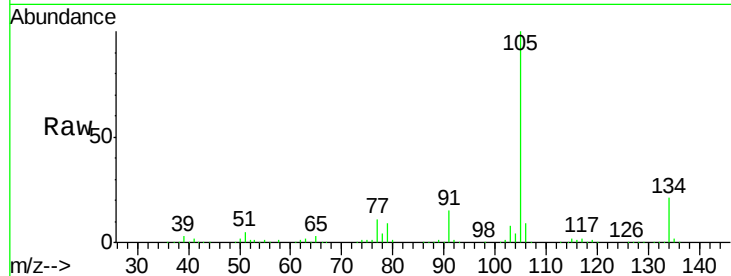
Instrument :
 MSVOA_N
 ClientSampleId :
 LF015RW050-190604MSD

Tot Ion	Ratio	Lower	Upper
105	100		
134	20.9	10.4	31.2

Manual Integrations
 APPROVED

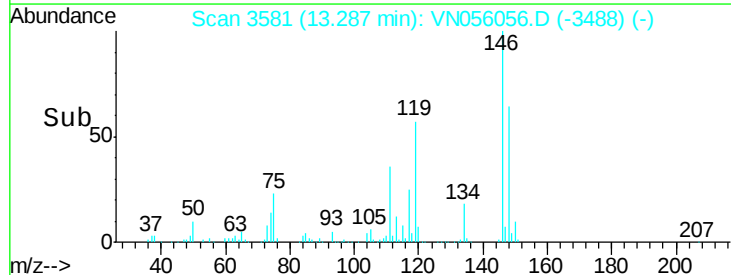
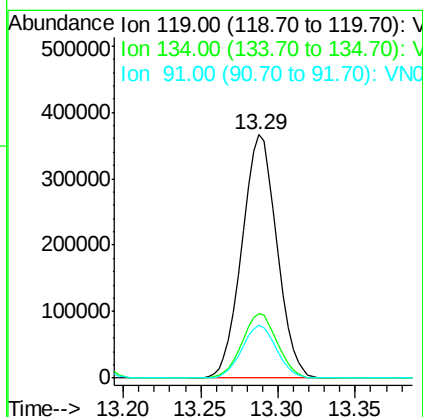
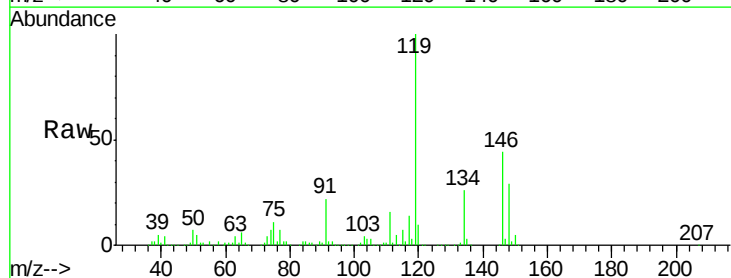
MMDadoda

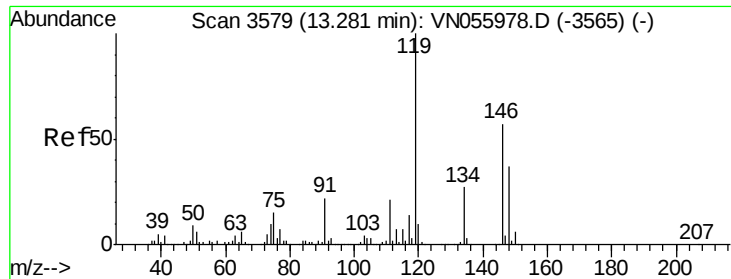
6/7/2019 9:37:05 AM



#86
 p-Isopropyltoluene
 Concen: 47.691 ug/l
 RT: 13.29 min Scan# 3581
 Delta R.T. -0.00 min
 Lab File: VN056056.D
 Acq: 6 Jun 2019 19:32

Tgt Ion	Ratio	Lower	Upper
119	100		
134	26.8	13.4	40.1
91	21.7	10.9	32.9





#87
 1,3-Dichlorobenzene
 Concen: 50.603 ug/l
 RT: 13.28 min Scan# 3579
 Delta R.T. -0.00 min
 Lab File: VN056056.D
 Acq: 6 Jun 2019 19:32

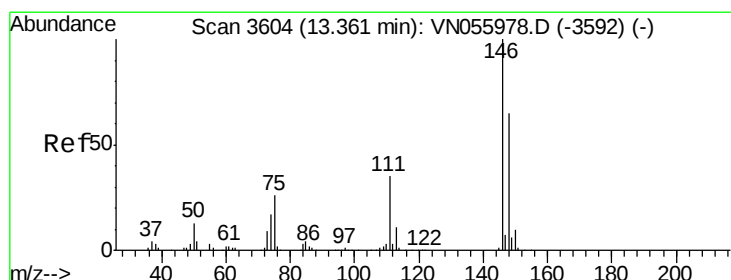
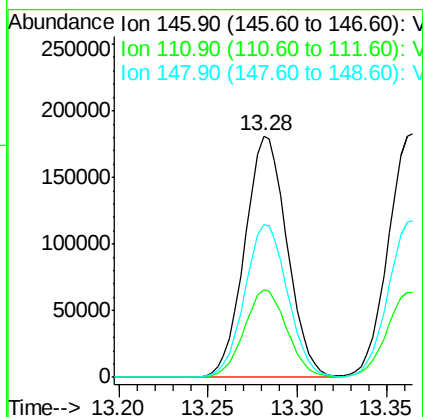
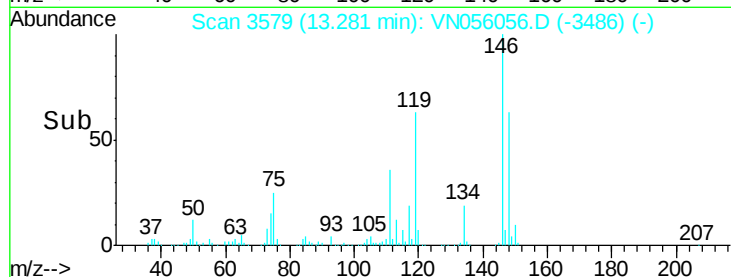
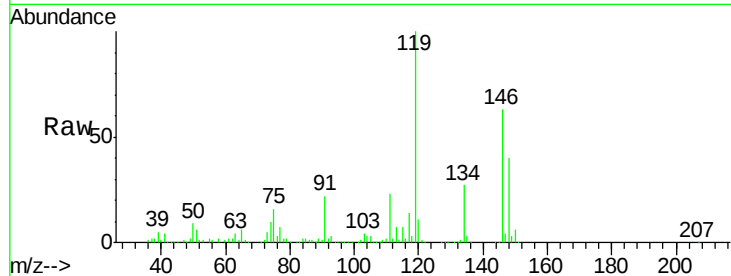
Instrument :
 MSVOA_N
 ClientSampleId :
 LF015RW050-190604MSD

Tot Ion	Ratio	Resp	Lower	Upper
146	100			
111	36.6	18.5	55.5	
148	64.1	32.0	96.2	

Manual Integrations
 APPROVED

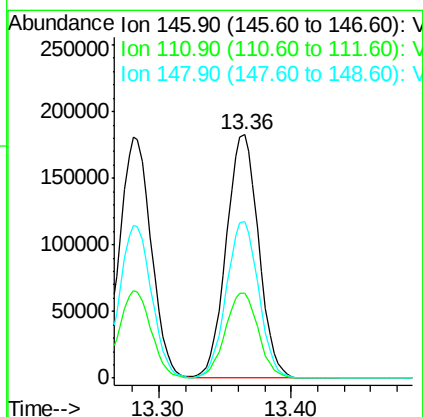
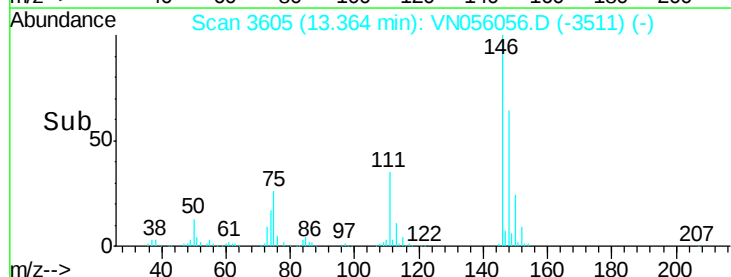
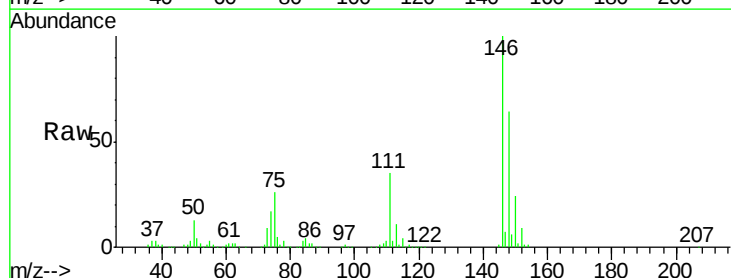
MMDadoda

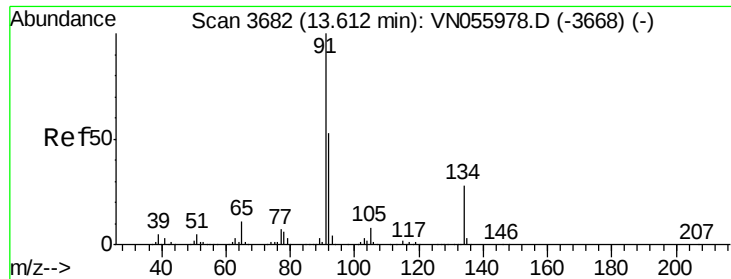
6/7/2019 9:37:05 AM



#88
 1,4-Dichlorobenzene
 Concen: 54.132 ug/l
 RT: 13.36 min Scan# 3605
 Delta R.T. 0.00 min
 Lab File: VN056056.D
 Acq: 6 Jun 2019 19:32

Tgt Ion	Ratio	Resp	Lower	Upper
146	100			
111	35.5	18.1	54.4	
148	64.3	32.1	96.5	





#89
n-Butylbenzene
Concen: 48.013 ug/l
RT: 13.61 min Scan# 3682
Delta R.T. -0.00 min
Lab File: VN056056.D
Acq: 6 Jun 2019 19:32

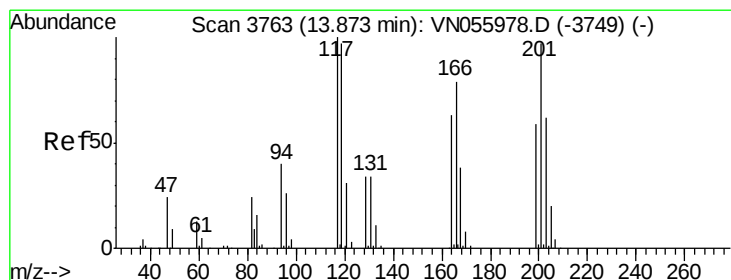
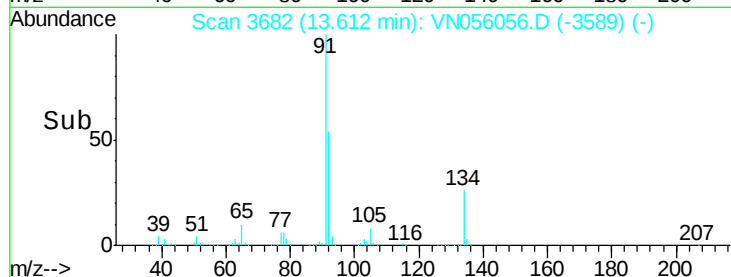
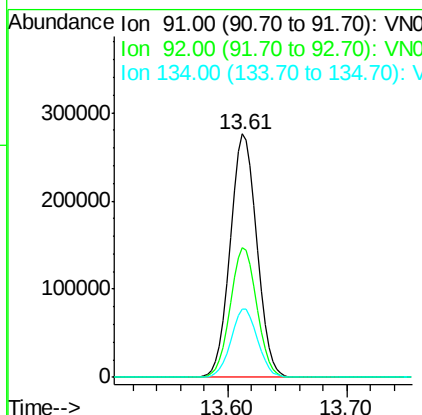
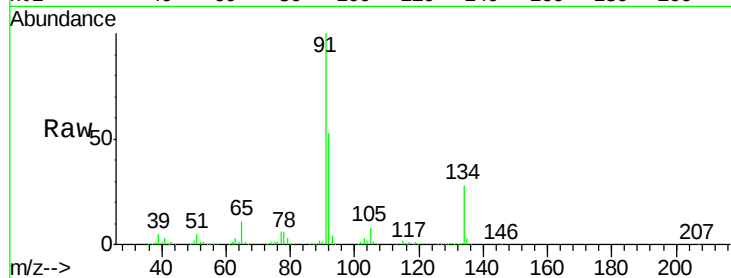
Instrument :
MSVOA_N
ClientSampleId :
LF015RW050-190604MSD

Tot Ion	Ratio	Lower	Upper
91	100		
92	53.2	26.4	79.0
134	27.9	13.9	41.7

Manual Integrations
APPROVED

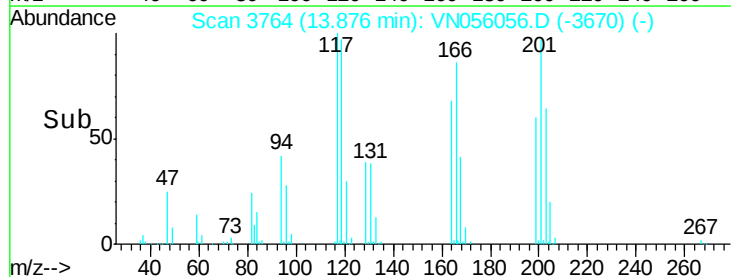
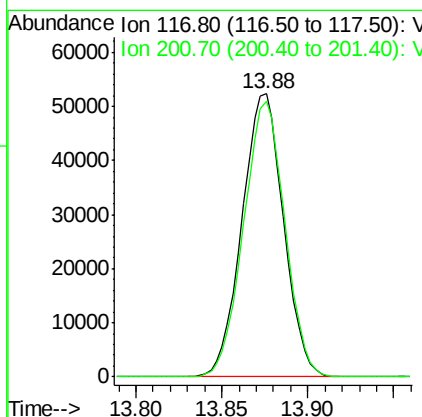
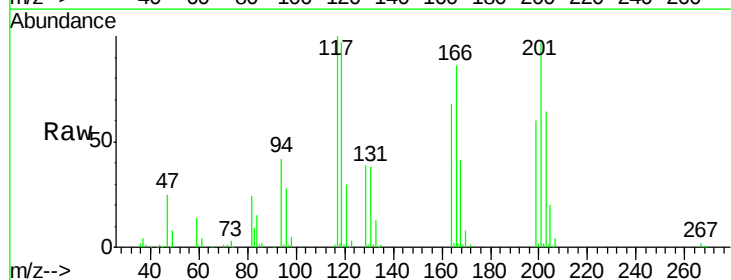
MMDadoda

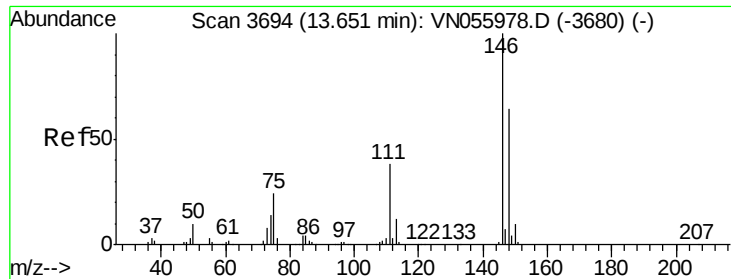
6/7/2019 9:37:05 AM



#90
Hexachloroethane
Concen: 48.243 ug/l
RT: 13.88 min Scan# 3764
Delta R.T. 0.00 min
Lab File: VN056056.D
Acq: 6 Jun 2019 19:32

Tgt Ion	Ratio	Lower	Upper
117	100		
201	96.8	50.0	150.0





#91
 1,2-Dichlorobenzene
 Concen: 53.589 ug/l
 RT: 13.65 min Scan# 3694
 Delta R.T. -0.00 min
 Lab File: VN056056.D
 Acq: 6 Jun 2019 19:32

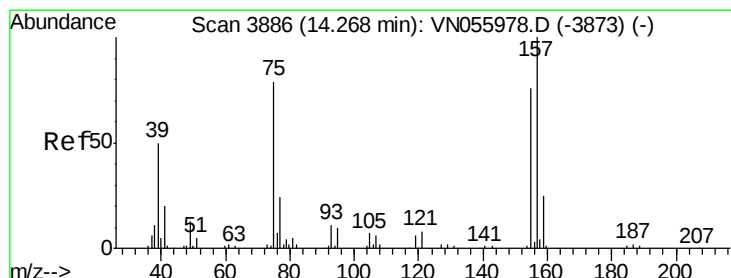
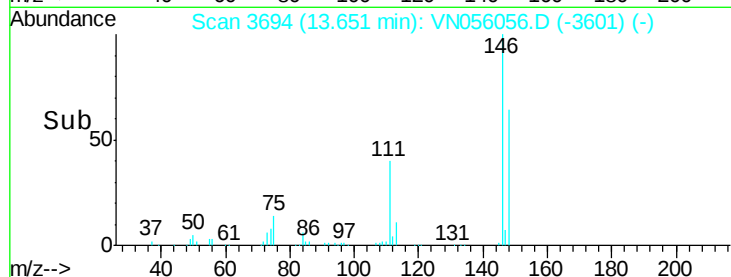
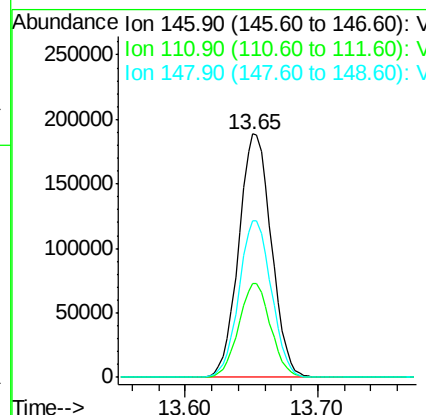
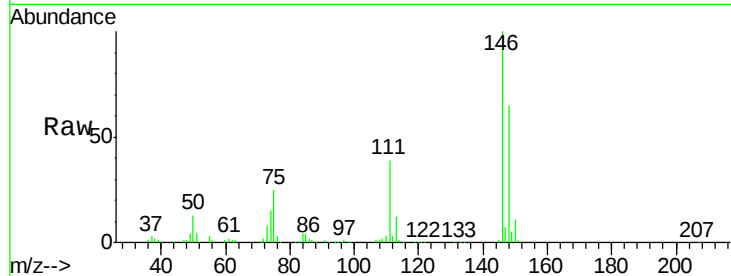
Instrument :
 MSVOA_N
 ClientSampleId :
 LF015RW050-190604MSD

Tot Ion	Ratio	Lower	Upper
146	100		
111	37.7	19.1	57.5
148	64.0	31.9	95.9

Manual Integrations
 APPROVED

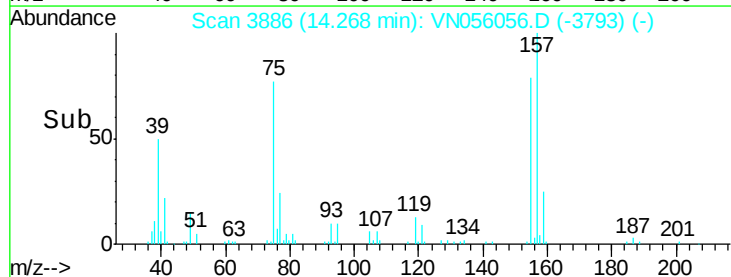
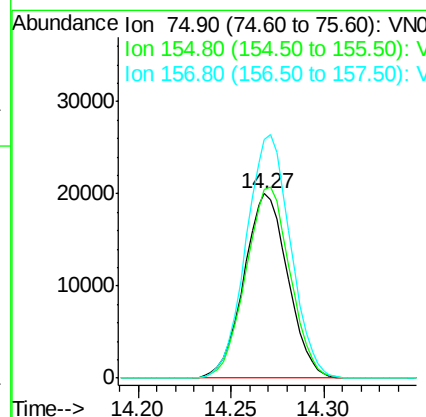
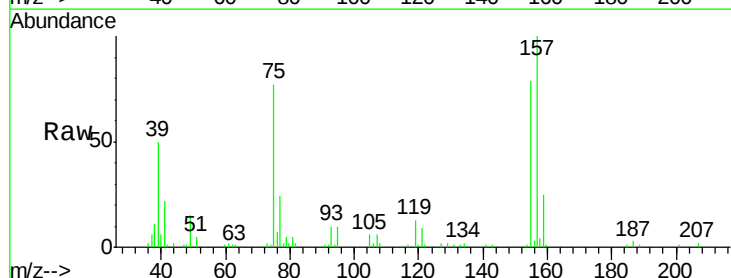
MMDadoda

6/7/2019 9:37:05 AM



#92
 1,2-Dibromo-3-Chloropropane
 Concen: 55.309 ug/l
 RT: 14.27 min Scan# 3886
 Delta R.T. -0.00 min
 Lab File: VN056056.D
 Acq: 6 Jun 2019 19:32

Tgt Ion	Ratio	Lower	Upper
75	100		
155	104.0	50.0	150.1
157	133.0	64.8	194.3





#93
 1,2,4-Trichlorobenzene
 Concen: 46.449 ug/l
 RT: 14.91 min Scan# 4085
 Delta R.T. 0.00 min
 Lab File: VN056056.D
 Acq: 6 Jun 2019 19:32

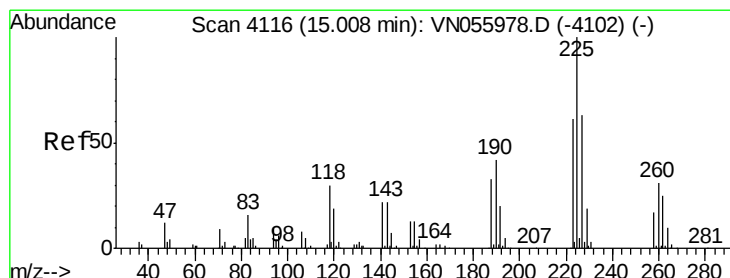
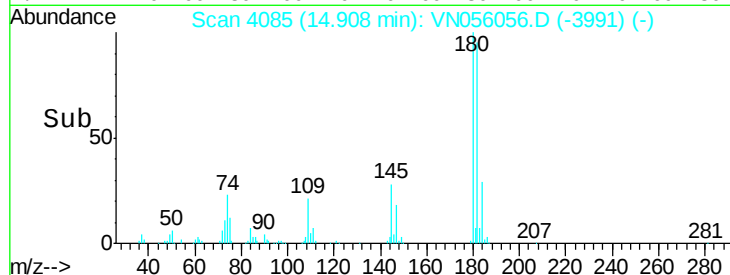
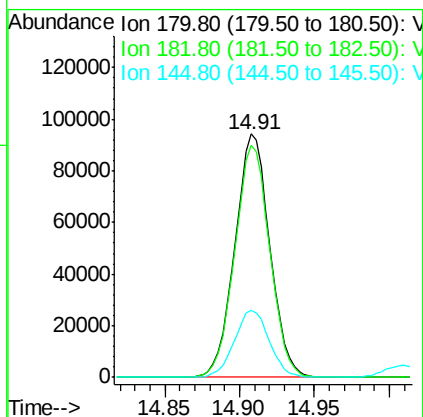
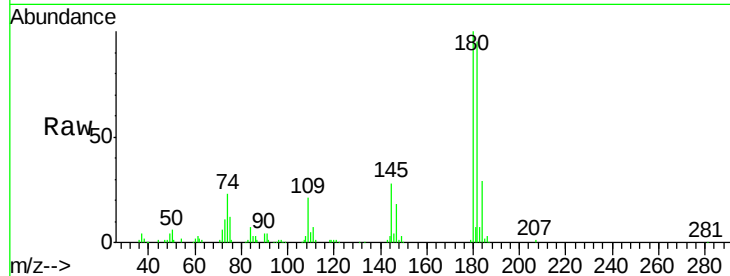
Instrument :
 MSVOA_N
 ClientSampleId :
 LF015RW050-190604MSD

Tot Ion:	180	Resp:	152576
Ion Ratio	Lower	Upper	
180	100		
182	95.6	48.3	144.9
145	27.6	14.0	41.9

Manual Integrations
 APPROVED

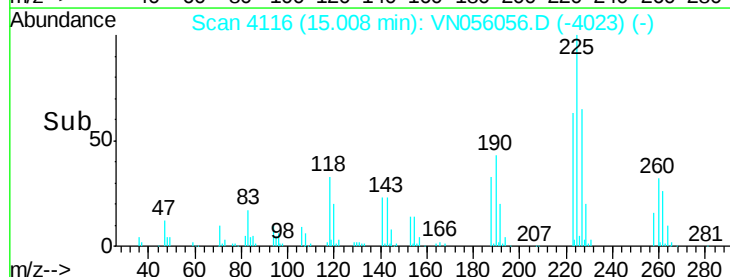
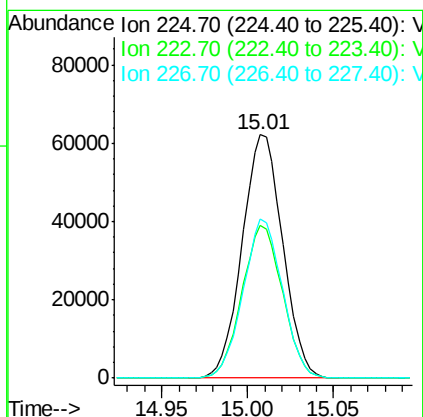
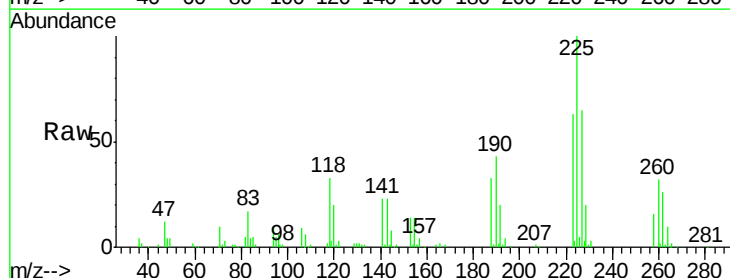
MMDadoda

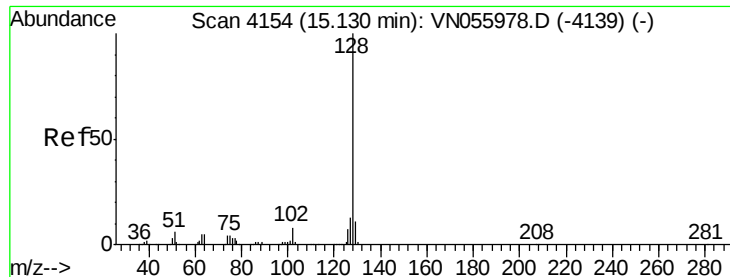
6/7/2019 9:37:05 AM



#94
 Hexachlorobutadiene
 Concen: 49.287 ug/l
 RT: 15.01 min Scan# 4116
 Delta R.T. 0.00 min
 Lab File: VN056056.D
 Acq: 6 Jun 2019 19:32

Tgt Ion:	225	Resp:	101551
Ion Ratio	Lower	Upper	
225	100		
223	62.8	30.9	92.7
227	63.4	31.6	94.7





#95

Naphthalene

Concen: 49.411 ug/l

RT: 15.13 min Scan# 4155

Delta R.T. 0.00 min

Lab File: VN056056.D

Acq: 6 Jun 2019 19:32

Instrument :

MSVOA_N

ClientSampleId :

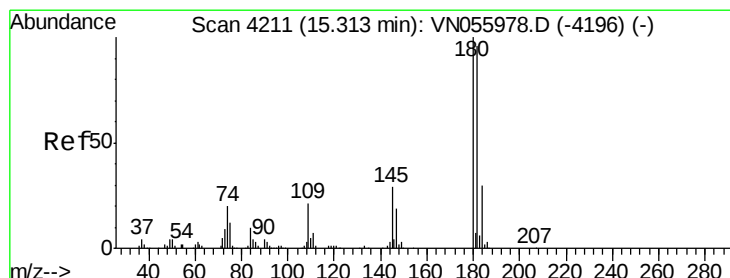
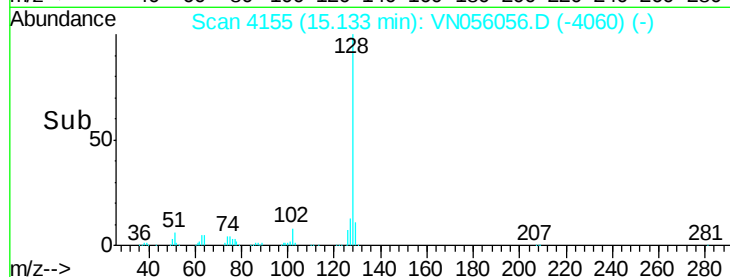
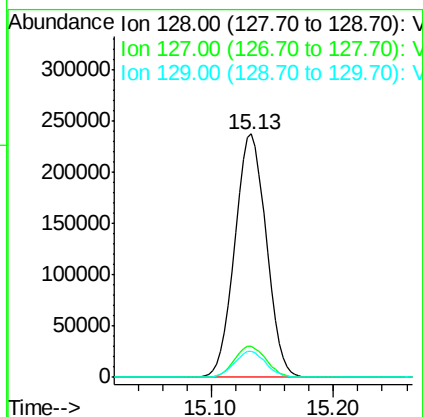
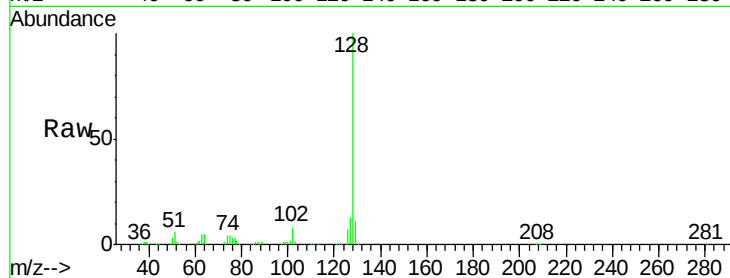
LF015RW050-190604MSD

Tot Ion:	128	Resp:	423707
Ion Ratio		Lower	Upper
128	100		
127	12.9	10.3	15.5
129	10.7	8.7	13.1

Manual Integrations
APPROVED

MMDadoda

6/7/2019 9:37:05 AM



#96

1,2,3-Trichlorobenzene

Concen: 49.633 ug/l

RT: 15.31 min Scan# 4211

Delta R.T. 0.00 min

Lab File: VN056056.D

Acq: 6 Jun 2019 19:32

Tgt Ion:	180	Resp:	167269
Ion Ratio		Lower	Upper
180	100		
182	94.7	47.9	143.7
145	29.5	14.9	44.7

