

Data Path : Z:\VOASRV\HPCHEM1\MSVOA N\DATA\VN052319\
 Data File : VN055747.D
 Acq On : 23 May 2019 11:00
 Operator : JC/SP
 Sample : VSTDICC100
 Misc : 5.00mL/MSVOA N/WATER
 ALS Vial : 7 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 VSTDICC100

Manual Integrations
 APPROVED

MMDadoda
 5/24/2019 9:22:11 AM

Quant Time: May 24 06:08:20 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_N\METHODS\82N052319W.M
 Quant Title : SW846 8260
 QLast Update : Fri May 24 05:41:54 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	7.66	168	342841	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	8.58	114	498395	50.00	ug/l	0.00
63) Chlorobenzene-d5	11.41	117	451890	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.34	152	223287	50.00	ug/l	0.00

System Monitoring Compounds

33) 1,2-Dichloroethane-d4	8.03	65	344638	92.53	ug/l	0.00
Spiked Amount	50.000		Recovery	=	185.06%	
35) Dibromofluoromethane	7.59	113	308467	97.60	ug/l	0.00
Spiked Amount	50.000		Recovery	=	195.20%	
50) Toluene-d8	10.09	98	1181331	98.60	ug/l	0.00
Spiked Amount	50.000		Recovery	=	197.20%	
62) 4-Bromofluorobenzene	12.40	95	426422	102.93	ug/l	0.00
Spiked Amount	50.000		Recovery	=	205.86%	

Target Compounds

						Qvalue
2) Dichlorodifluoromethane	1.85	85	212424	82.041	ug/l	100
3) Chloromethane	2.06	50	311309	89.144	ug/l	98
4) Vinyl Chloride	2.18	62	329585	87.494	ug/l	100
5) Bromomethane	2.52	94	203164m	84.238	ug/l	
6) Chloroethane	2.67	64	190760	90.163	ug/l	99
7) Trichlorofluoromethane	3.00	101	433267	89.721	ug/l	100
8) Diethyl Ether	3.40	74	192408	97.924	ug/l	99
9) 1,1,2-Trichlorotrifluoroet	3.74	101	270206	91.565	ug/l	99
10) Methyl Iodide	3.94	142	438757	102.436	ug/l	100
11) Tert butyl alcohol	4.82	59	341785	488.287	ug/l	100
12) 1,1-Dichloroethene	3.72	96	280379	90.266	ug/l	99
13) Acrolein	3.60	56	230378	572.203	ug/l	99
14) Allyl chloride	4.31	41	487560	97.097	ug/l	100
15) Acrylonitrile	4.99	53	769724	495.024	ug/l	100
16) Acetone	3.82	43	723940	470.950	ug/l	100
17) Carbon Disulfide	4.04	76	796620	92.322	ug/l	99
18) Methyl Acetate	4.32	43	310847	94.596	ug/l	99
19) Methyl tert-butyl Ether	5.05	73	943119	92.014	ug/l	99
20) Methylene Chloride	4.54	84	319957	92.007	ug/l	98
21) trans-1,2-Dichloroethene	5.03	96	301815	91.337	ug/l	98
22) Diisopropyl ether	5.95	45	954503	95.605	ug/l	99
23) Vinyl Acetate	5.89	43	4127634	487.362	ug/l	100
24) 1,1-Dichloroethane	5.84	63	546440	93.966	ug/l	100
25) 2-Butanone	6.84	43	1059069	494.382	ug/l	100
26) 2,2-Dichloropropane	6.82	77	452737	87.904	ug/l	100
27) cis-1,2-Dichloroethene	6.82	96	357650	92.630	ug/l	99
28) Bromochloromethane	7.19	49	264091	102.849	ug/l	99
29) Tetrahydrofuran	7.21	42	664365	469.085	ug/l	100
30) Chloroform	7.37	83	547056	91.329	ug/l	100
31) Cyclohexane	7.65	56	501515	90.396	ug/l	99
32) 1,1,1-Trichloroethane	7.57	97	489400	91.263	ug/l	99
36) 1,1-Dichloropropene	7.79	75	418267	94.614	ug/l	99
37) Ethyl Acetate	6.93	43	410291	102.420	ug/l	99
38) Carbon Tetrachloride	7.77	117	438014	92.544	ug/l	97

Data Path : Z:\VOASRV\HPCHEM1\MSVOA N\DATA\VN052319\
 Data File : VN055747.D
 Acq On : 23 May 2019 11:00
 Operator : JC/SP
 Sample : VSTDICC100
 Misc : 5.00mL/MSVOA N/WATER
 ALS Vial : 7 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleID :
 VSTDICC100

Manual Integrations
 APPROVED

MMDadoda
 5/24/2019 9:22:11 AM

Quant Time: May 24 06:08:20 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_N\METHODS\82N052319W.M
 Quant Title : SW846 8260
 QLast Update : Fri May 24 05:41:54 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
39) Methylcyclohexane	9.08	83	521535	97.276	ug/l	99
40) Benzene	8.04	78	1276426	97.583	ug/l	100
41) Methacrylonitrile	7.18	41	207469	119.304	ug/l	98
42) 1,2-Dichloroethane	8.12	62	415606	98.302	ug/l	100
43) Isopropyl Acetate	8.17	43	700461	100.367	ug/l	99
44) Trichloroethene	8.83	130	360950	97.881	ug/l	99
45) 1,2-Dichloropropane	9.12	63	335464	97.457	ug/l	99
46) Dibromomethane	9.21	93	221192	98.030	ug/l	99
47) Bromodichloromethane	9.40	83	450671	95.694	ug/l	99
48) Methyl methacrylate	9.20	41	332865	106.453	ug/l	98
49) 1,4-Dioxane	9.20	88	135925	2193.477	ug/l	99
51) 4-Methyl-2-Pentanone	9.99	43	2080570	504.511	ug/l	99
52) Toluene	10.16	92	815243	99.125	ug/l	100
53) t-1,3-Dichloropropene	10.38	75	507656	100.345	ug/l	100
54) cis-1,3-Dichloropropene	9.84	75	550319	99.253	ug/l	99
55) 1,1,2-Trichloroethane	10.56	97	324769	96.025	ug/l	99
56) Ethyl methacrylate	10.43	69	525078	99.403	ug/l	99
57) 1,3-Dichloropropane	10.71	76	533306	99.727	ug/l	100
58) 2-Chloroethyl Vinyl ether	9.70	63	1026546	468.017	ug/l	100
59) 2-Hexanone	10.75	43	1504964	519.272	ug/l	100
60) Dibromochloromethane	10.90	129	392001	102.247	ug/l	99
61) 1,2-Dibromoethane	11.00	107	344924	101.842	ug/l	99
64) Tetrachloroethene	10.63	164	355526	98.984	ug/l	100
65) Chlorobenzene	11.43	112	882184	96.683	ug/l	100
66) 1,1,1,2-Tetrachloroethane	11.51	131	343939	93.805	ug/l	100
67) Ethyl Benzene	11.51	91	1576662	96.758	ug/l	99
68) m/p-Xylenes	11.62	106	1213479	197.172	ug/l	99
69) o-Xylene	11.95	106	592820	98.179	ug/l	100
70) Styrene	11.96	104	1017328	101.606	ug/l	100
71) Bromoform	12.13	173	316562	101.626	ug/l #	100
73) Isopropylbenzene	12.25	105	1540327	84.426	ug/l	100
74) N-amyl acetate	12.07	43	597573	95.152	ug/l	99
75) 1,1,2,2-Tetrachloroethane	12.50	83	460899	82.045	ug/l	100
76) 1,2,3-Trichloropropane	12.55	75	374439m	81.367	ug/l	
77) Bromobenzene	12.53	156	424927	92.047	ug/l	99
78) n-propylbenzene	12.59	91	1723605	87.163	ug/l	100
79) 2-Chlorotoluene	12.67	91	1026961	85.252	ug/l	100
80) 1,3,5-Trimethylbenzene	12.73	105	1312800	85.674	ug/l	100
81) trans-1,4-Dichloro-2-buten	12.30	75	157640	90.032	ug/l	98
82) 4-Chlorotoluene	12.77	91	1035882	88.852	ug/l	100
83) tert-Butylbenzene	12.99	119	1128598	83.940	ug/l	100
84) 1,2,4-Trimethylbenzene	13.04	105	1314753	87.120	ug/l	100
85) sec-Butylbenzene	13.17	105	1478203	86.583	ug/l	100
86) p-Isopropyltoluene	13.29	119	1383129	88.141	ug/l	100
87) 1,3-Dichlorobenzene	13.28	146	718147	94.684	ug/l	100
88) 1,4-Dichlorobenzene	13.36	146	699902	97.019	ug/l	100
89) n-Butylbenzene	13.61	91	1138974	93.430	ug/l	100
90) Hexachloroethane	13.87	117	259118	86.504	ug/l	99
91) 1,2-Dichlorobenzene	13.65	146	696964	92.202	ug/l	99
92) 1,2-Dibromo-3-Chloropropan	14.27	75	89769	89.815	ug/l	98

Data Path : Z:\VOASRV\HPCHEM1\MSVOA N\DATA\VN052319\
Data File : VN055747.D
Acq On : 23 May 2019 11:00
Operator : JC/SP
Sample : VSTDICC100
Misc : 5.00mL/MSVOA N/WATER
ALS Vial : 7 Sample Multiplier: 1

Instrument :
MSVOA_N
ClientSampleId :
VSTDICC100

Manual Integrations
APPROVED

MMDadoda
5/24/2019 9:22:11 AM

Quant Time: May 24 06:08:20 2019
Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_N\METHODS\82N052319W.M
Quant Title : SW846 8260
QLast Update : Fri May 24 05:41:54 2019
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
93) 1,2,4-Trichlorobenzene	14.91	180	436079	114.998	ug/l	100
94) Hexachlorobutadiene	15.01	225	259222	96.378	ug/l	98
95) Naphthalene	15.13	128	1162390	113.293	ug/l	100
96) 1,2,3-Trichlorobenzene	15.31	180	436313	109.080	ug/l	100

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

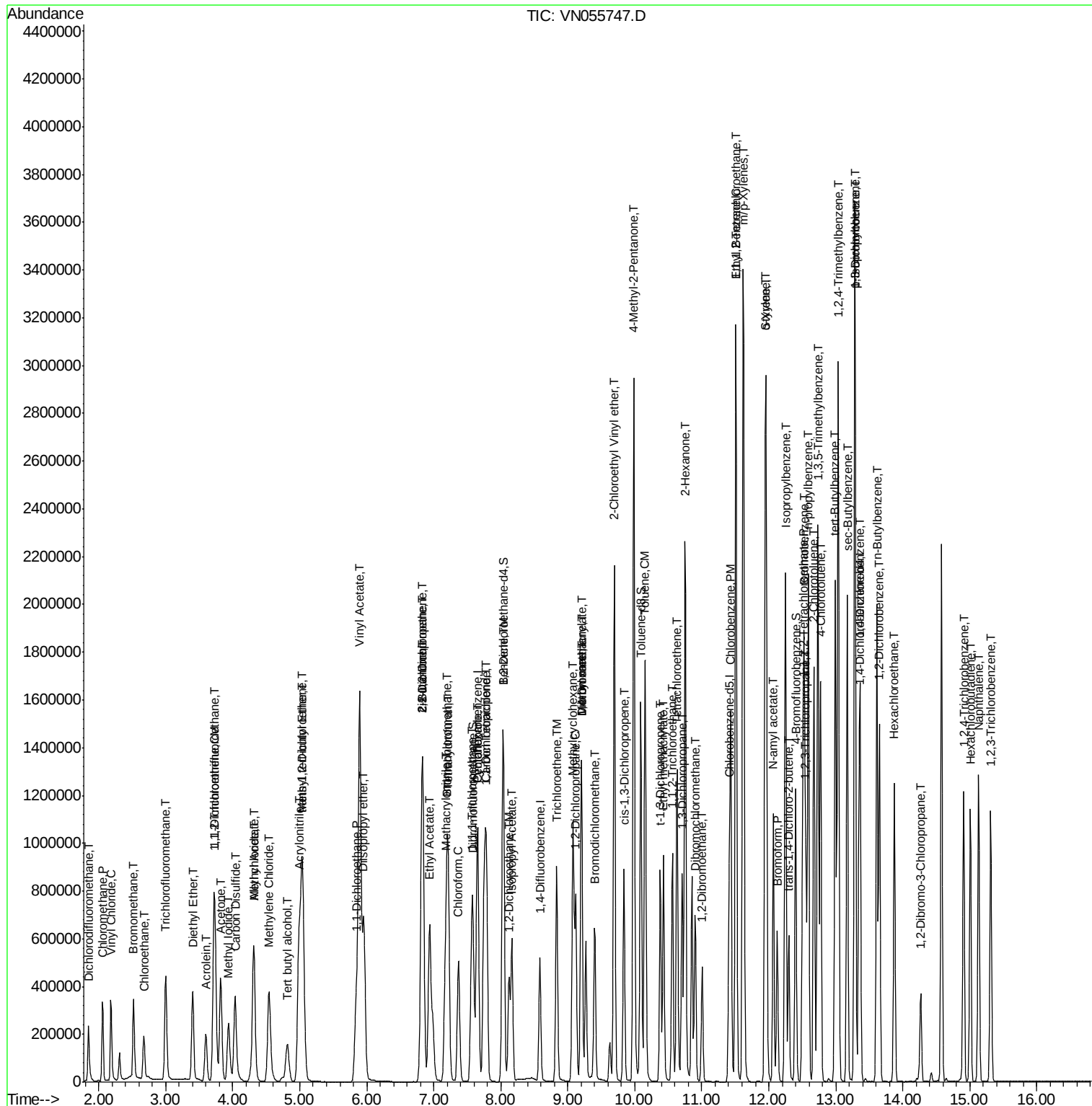
Data Path : Z:\V0ASRV\HPCHEM1\MSVOA N\DATA\VN052319\
Data File : VN055747.D
Acq On : 23 May 2019 11:00
Operator : JC/SP
Sample : VSTDIC100
Misc : 5.00mL/MSVOA N/WATER
ALS Vial : 7 Sample Multiplier: 1

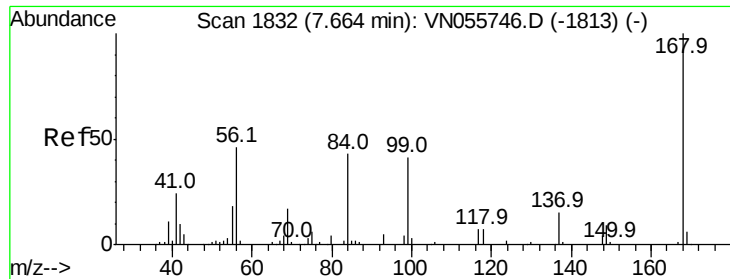
Instrument :
MSVOA_N
ClientSampleId :
VSTDIC100

Manual Integrations
APPROVED

MMDadoda
5/24/2019 9:22:11 AM

Quant Time: May 24 06:08:20 2019
Quant Method : Z:\V0ASRV\HPCHEM1\MSVOA_N\METHODS\82N052319W.M
Quant Title : SW846 8260
QLast Update : Fri May 24 05:41:54 2019
Response via : Initial Calibration





#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 7.66 min Scan# 1832

Delta R.T. 0.00 min

Lab File: VN055747.D

Acq: 23 May 2019 11:00

Instrument :

MSVOA_N

ClientSampleId :

VSTDIC100

Tot Ion:168 Resp: 342841

Ion Ratio Lower Upper

168 100

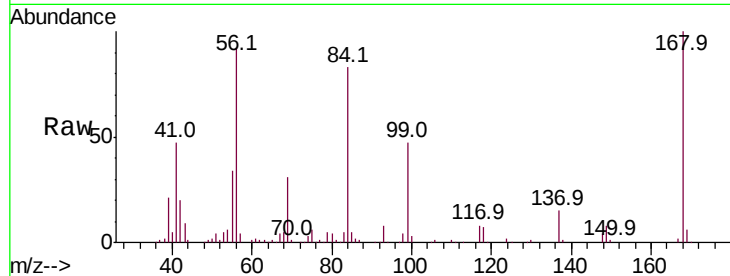
99 46.2 37.2 55.8

Manual Integrations

APPROVED

MMDadoda

5/24/2019 9:22:11 AM



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VNO

150000

100000

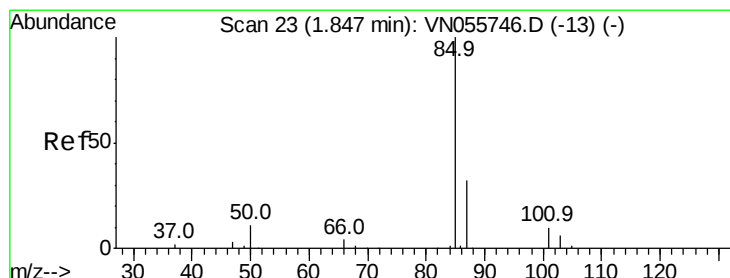
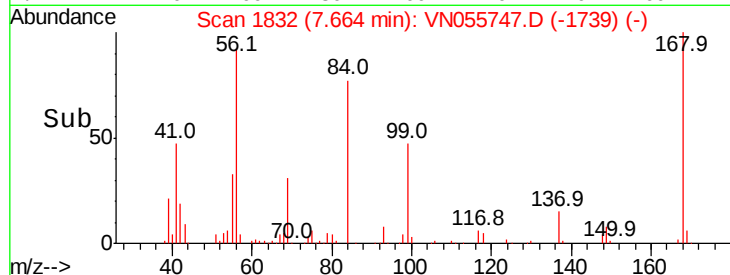
50000

0

7.66

7.60 7.70 7.80

Time-->



#2

Dichlorodifluoromethane

Concen: 82.041 ug/l

RT: 1.85 min Scan# 23

Delta R.T. 0.00 min

Lab File: VN055747.D

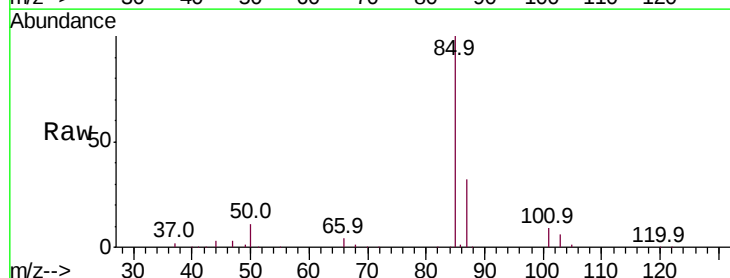
Acq: 23 May 2019 11:00

Tgt Ion: 85 Resp: 212424

Ion Ratio Lower Upper

85 100

87 32.3 16.1 48.3



Abundance Ion 84.90 (84.60 to 85.60): VNO

Ion 86.90 (86.60 to 87.60): VNO

150000

100000

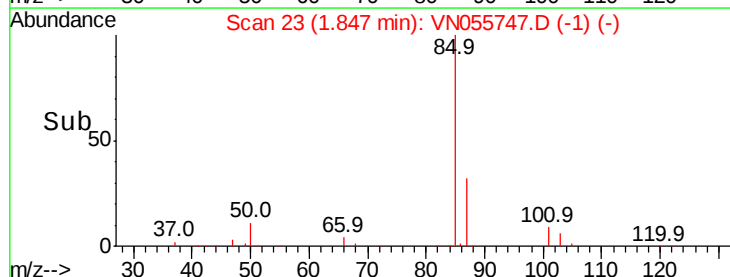
50000

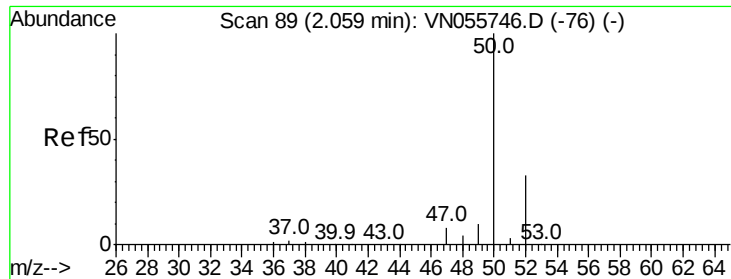
0

1.85

1.80 1.90 2.00

Time-->





#3

Chloromethane

Concen: 89.144 ug/l

RT: 2.06 min Scan# 88

Delta R.T. -0.00 min

Lab File: VN055747.D

Acq: 23 May 2019 11:00

Instrument :

MSVOA_N

ClientSampleId :

VSTDIC100

Tot Ion: 50 Resp: 311309

Ion Ratio Lower Upper

50 100

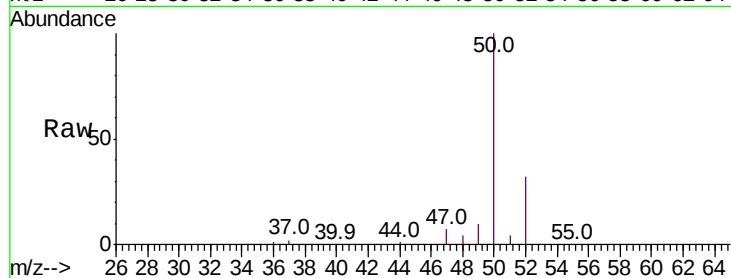
52 32.4 26.6 40.0

Manual Integrations

APPROVED

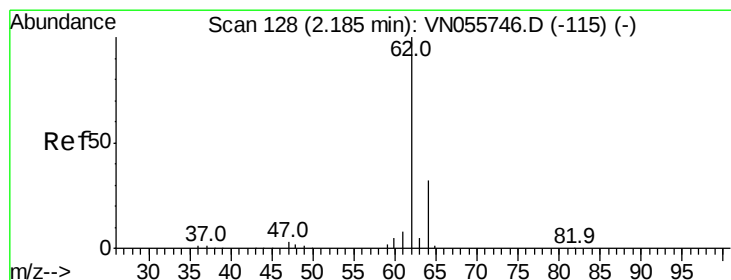
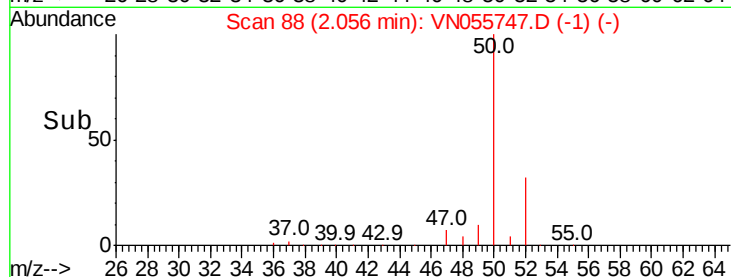
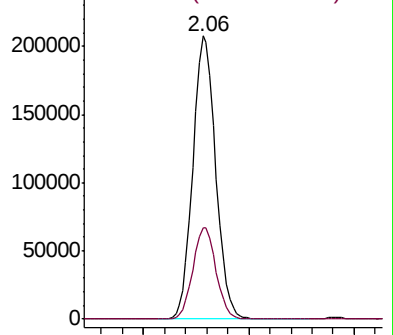
MMDadoda

5/24/2019 9:22:11 AM



Abundance Ion 49.90 (49.60 to 50.60): VNC

Ion 51.90 (51.60 to 52.60): VNC



#4

Vinyl Chloride

Concen: 87.494 ug/l

RT: 2.18 min Scan# 127

Delta R.T. -0.00 min

Lab File: VN055747.D

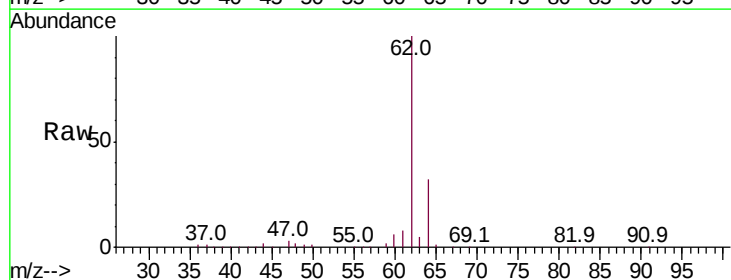
Acq: 23 May 2019 11:00

Tgt Ion: 62 Resp: 329585

Ion Ratio Lower Upper

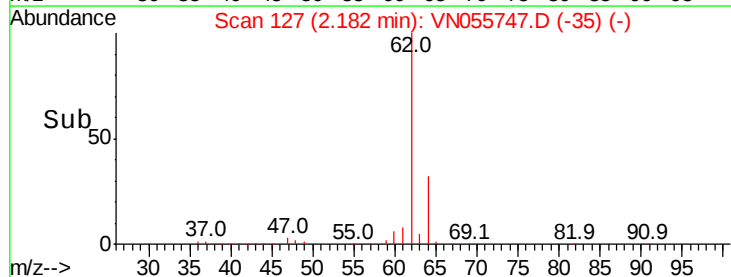
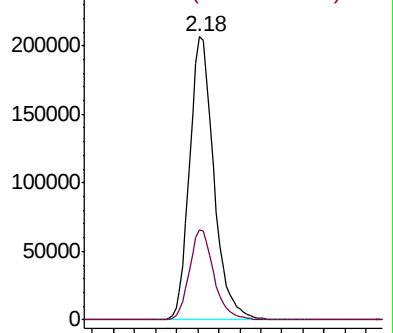
62 100

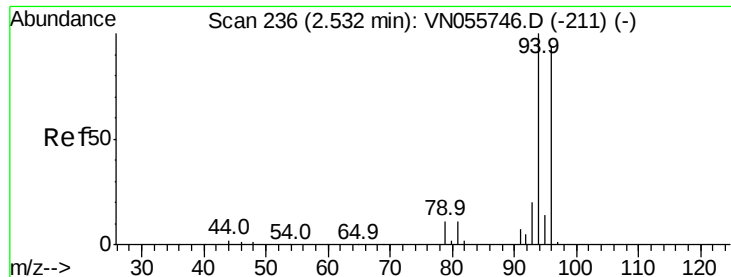
64 31.9 25.6 38.4



Abundance Ion 61.90 (61.60 to 62.60): VNC

Ion 63.90 (63.60 to 64.60): VNC





#5

Bromomethane

Concen: 84.238 ug/l m

RT: 2.52 min Scan# 232

Delta R.T. -0.01 min

Lab File: VN055747.D

Acq: 23 May 2019 11:00

Instrument :

MSVOA_N

ClientSampleId :

VSTDIC100

Tot Ion: 94 Resp: 203164

Ion Ratio Lower Upper

94 100

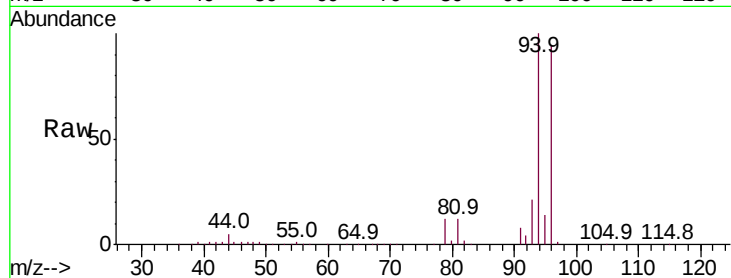
96 94.1 75.5 113.3

Manual Integrations

APPROVED

MMDadoda

5/24/2019 9:22:11 AM



Abundance Ion 93.90 (93.60 to 94.60): VN0

Ion 95.90 (95.60 to 96.60): VN0

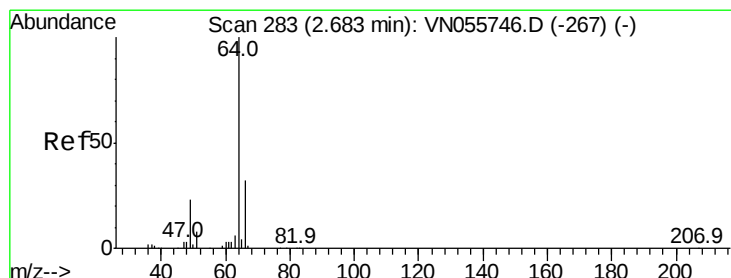
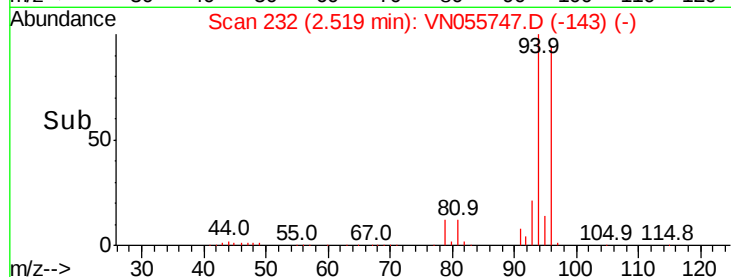
2.52

100000

50000

0

Time-->



#6

Chloroethane

Concen: 90.163 ug/l

RT: 2.67 min Scan# 280

Delta R.T. -0.01 min

Lab File: VN055747.D

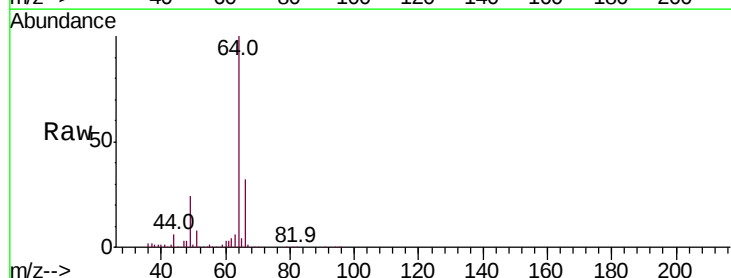
Acq: 23 May 2019 11:00

Tgt Ion: 64 Resp: 190760

Ion Ratio Lower Upper

64 100

66 32.3 25.4 38.0



Abundance Ion 63.90 (63.60 to 64.60): VN0

Ion 65.90 (65.60 to 66.60): VN0

2.67

100000

80000

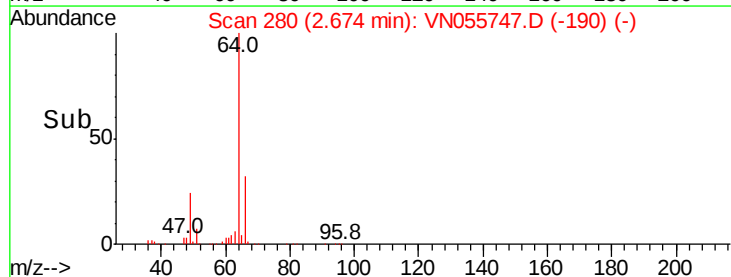
60000

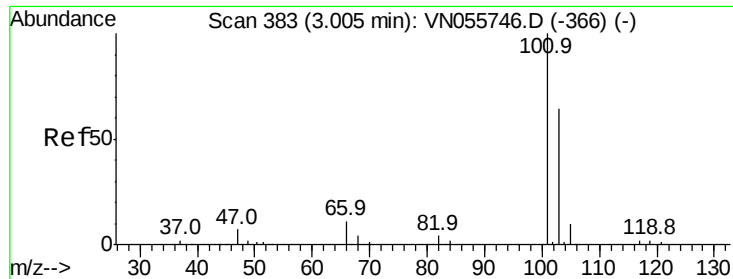
40000

20000

0

Time-->





#7

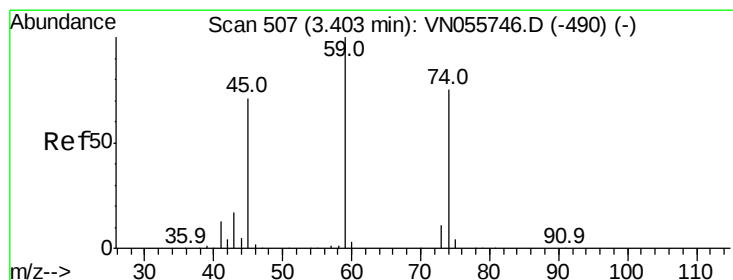
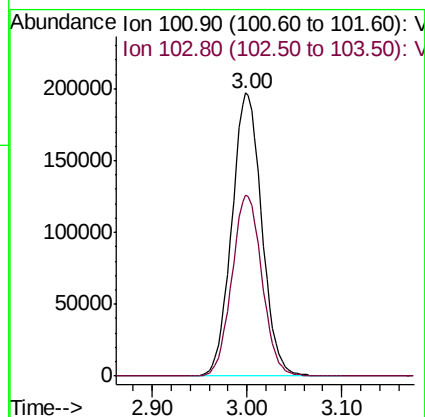
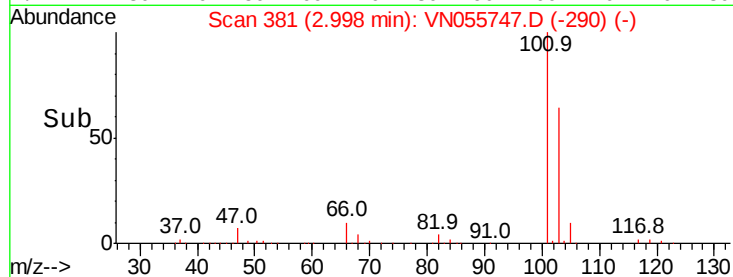
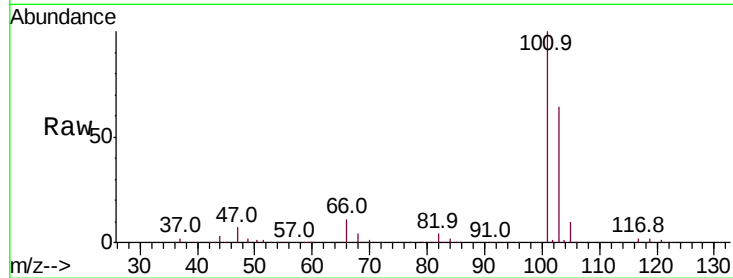
Trichlorofluoromethane
Concen: 89.721 ug/l
RT: 3.00 min Scan# 381
Delta R.T. -0.01 min
Lab File: VN055747.D
Acq: 23 May 2019 11:00

Instrument :
MSVOA_N
ClientSampleId :
VSTDIC100

Tot Ion:101 Resp: 433267
Ion Ratio Lower Upper
101 100
103 64.1 51.2 76.8

Manual Integrations
APPROVED

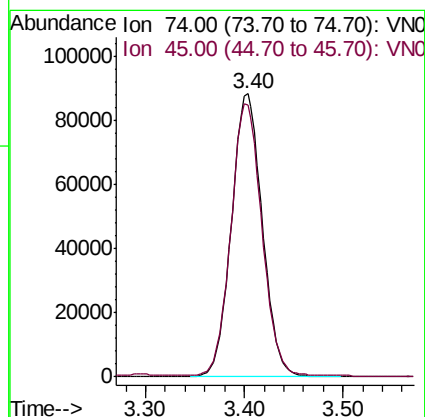
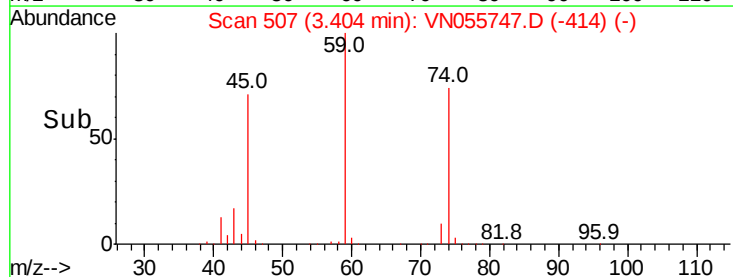
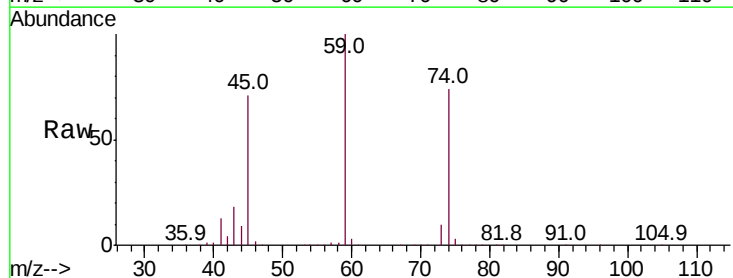
MMDadoda
5/24/2019 9:22:11 AM

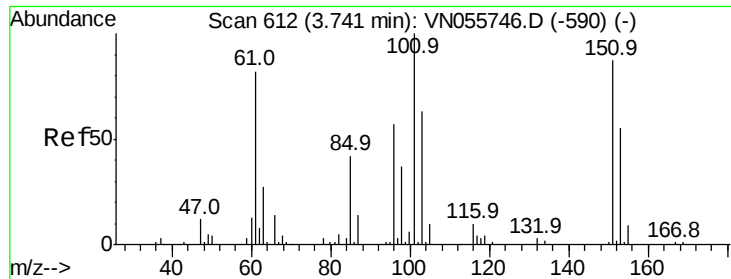


#8

Diethyl Ether
Concen: 97.924 ug/l
RT: 3.40 min Scan# 507
Delta R.T. 0.00 min
Lab File: VN055747.D
Acq: 23 May 2019 11:00

Tgt Ion: 74 Resp: 192408
Ion Ratio Lower Upper
74 100
45 96.4 48.6 145.9





#9

1,1,2-Trichlorotrifluoroethane

Concen: 91.565 ug/l

RT: 3.74 min Scan# 611

Delta R.T. -0.00 min

Lab File: VN055747.D

Acq: 23 May 2019 11:00

Instrument :

MSVOA_N

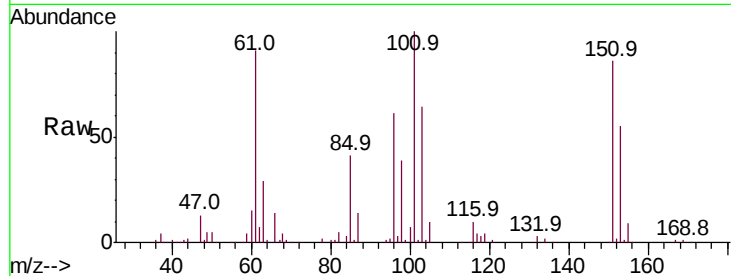
ClientSampleId :

VSTDIC100

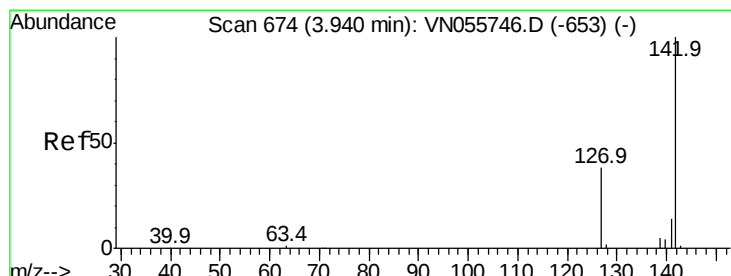
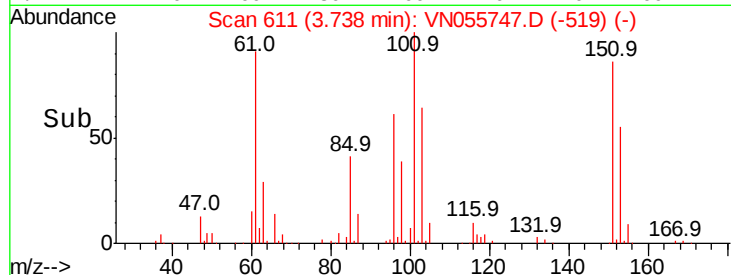
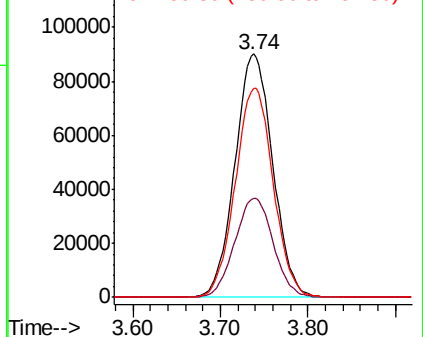
Tot Ion:	101	Resp:	270206
Ion Ratio	Lower	Upper	
101	100		
85	41.3	33.4	50.2
151	86.2	69.4	104.2

Manual Integrations
APPROVED

MMDadoda
5/24/2019 9:22:11 AM



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



#10

Methyl Iodide

Concen: 102.436 ug/l

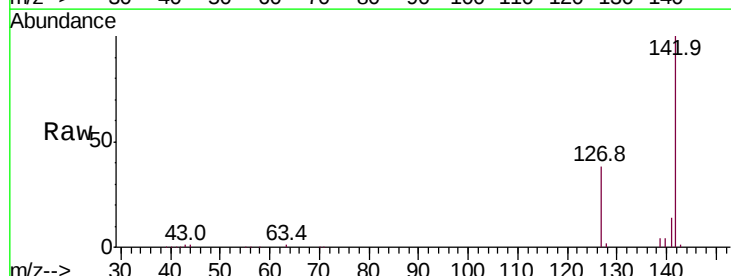
RT: 3.94 min Scan# 673

Delta R.T. -0.00 min

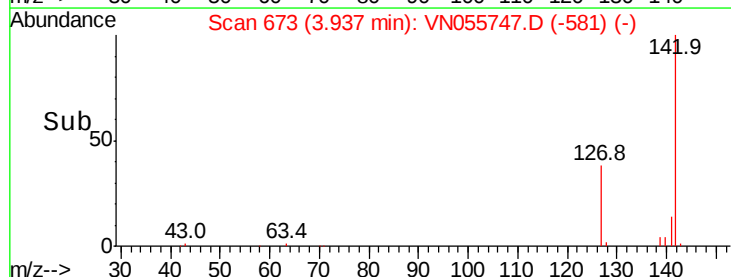
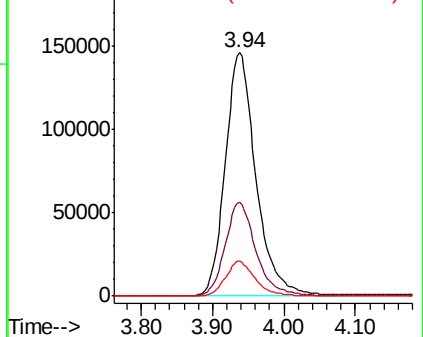
Lab File: VN055747.D

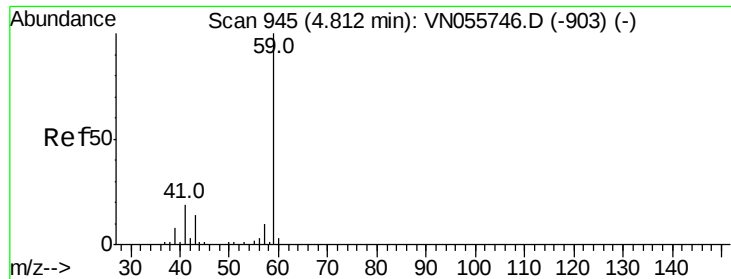
Acq: 23 May 2019 11:00

Tgt Ion:	142	Resp:	438757
Ion Ratio	Lower	Upper	
142	100		
127	38.5	31.0	46.4
141	13.9	11.4	17.0



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





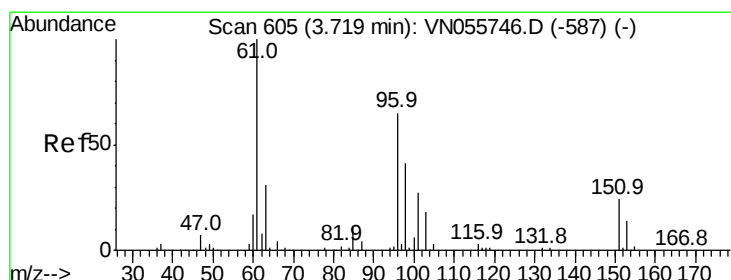
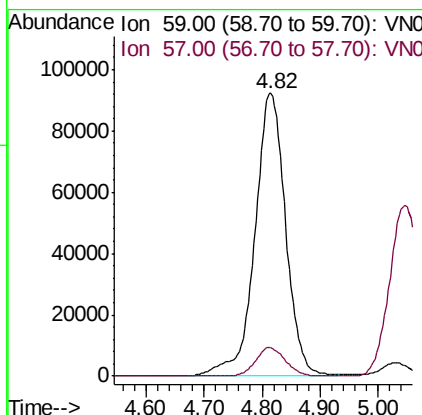
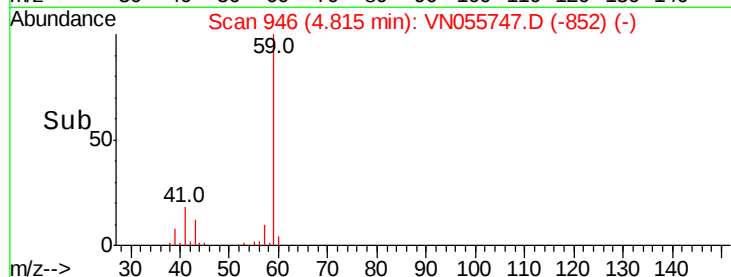
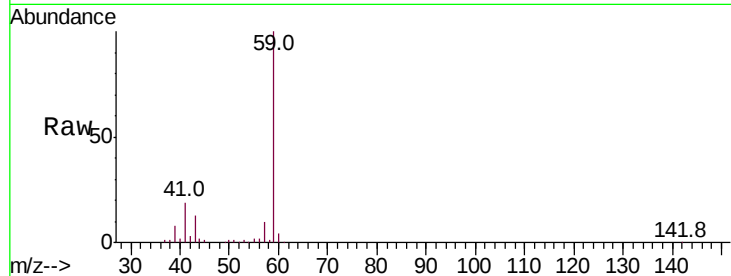
#11
Tert butyl alcohol
Concen: 488.287 ug/l
RT: 4.82 min Scan# 946
Delta R.T. 0.00 min
Lab File: VN055747.D
Acq: 23 May 2019 11:00

Instrument :
MSVOA_N
ClientSampled :
VSTDIC100

Tot Ion: 59 Resp: 341785
Ion Ratio Lower Upper
59 100
57 9.8 7.8 11.6

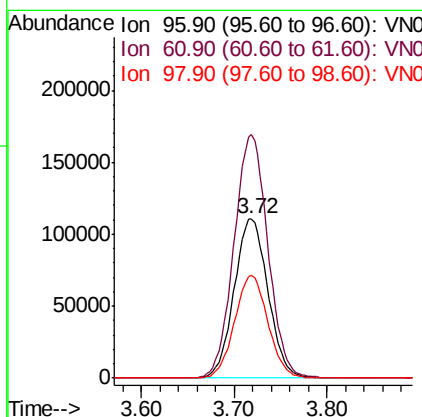
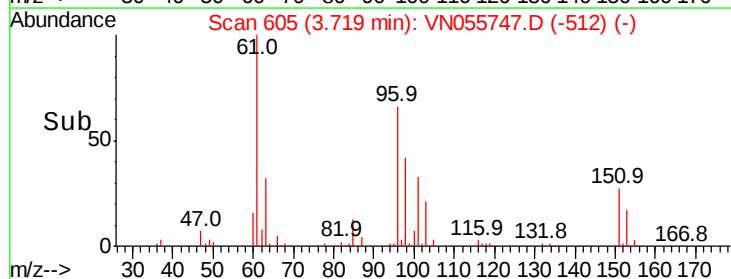
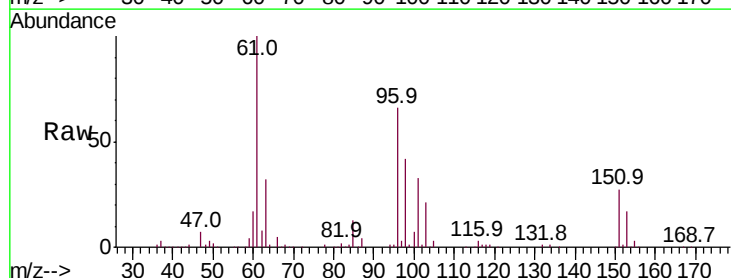
Manual Integrations
APPROVED

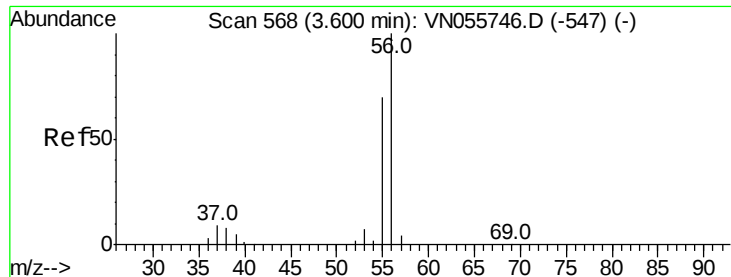
MMDadoda
5/24/2019 9:22:11 AM



#12
1,1-Dichloroethene
Concen: 90.266 ug/l
RT: 3.72 min Scan# 605
Delta R.T. 0.00 min
Lab File: VN055747.D
Acq: 23 May 2019 11:00

Tgt Ion: 96 Resp: 280379
Ion Ratio Lower Upper
96 100
61 152.5 123.2 184.8
98 64.6 50.4 75.6





#13

Acrolein

Concen: 572.203 ug/l

RT: 3.60 min Scan# 568

Delta R.T. 0.00 min

Lab File: VN055747.D

Acq: 23 May 2019 11:00

Instrument :

MSVOA_N

ClientSampleId :

VSTDIC100

Tot Ion: 56 Resp: 230378

Ion Ratio Lower Upper

56 100

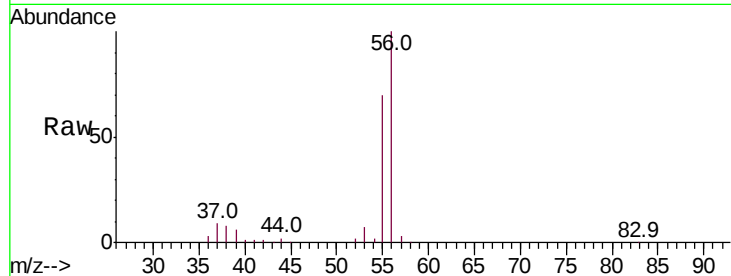
55 70.5 55.4 83.2

Manual Integrations

APPROVED

MMDadoda

5/24/2019 9:22:11 AM



Abundance Ion 56.00 (55.70 to 56.70): VNO

Ion 55.00 (54.70 to 55.70): VNO

3.60

100000

80000

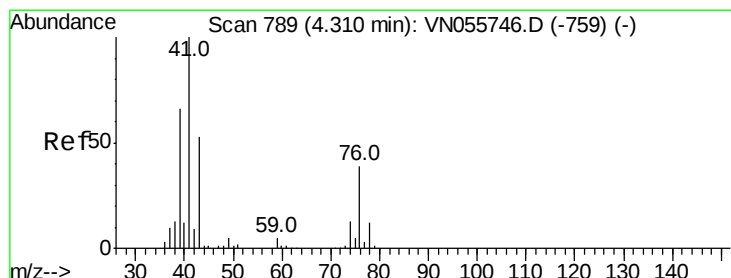
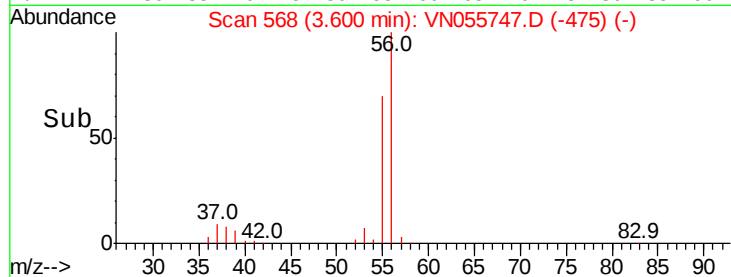
60000

40000

20000

0

Time-->



#14

Allyl chloride

Concen: 97.097 ug/l

RT: 4.31 min Scan# 789

Delta R.T. 0.00 min

Lab File: VN055747.D

Acq: 23 May 2019 11:00

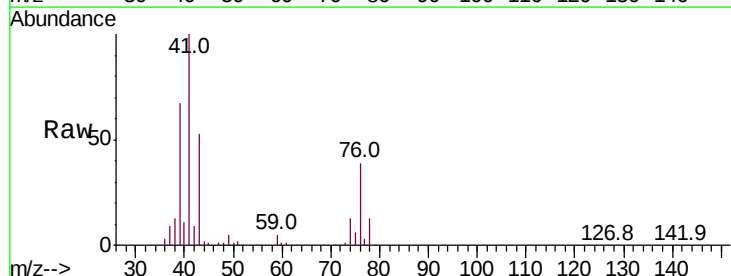
Tgt Ion: 41 Resp: 487560

Ion Ratio Lower Upper

41 100

39 61.9 50.0 75.0

76 35.2 28.2 42.2



Abundance Ion 41.00 (40.70 to 41.70): VNO

Ion 39.00 (38.70 to 39.70): VNO

Ion 75.90 (75.60 to 76.60): VNO

4.31

200000

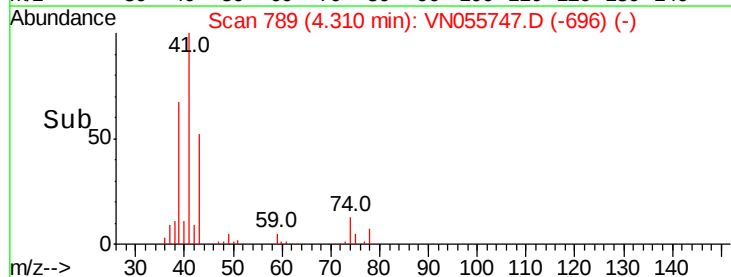
150000

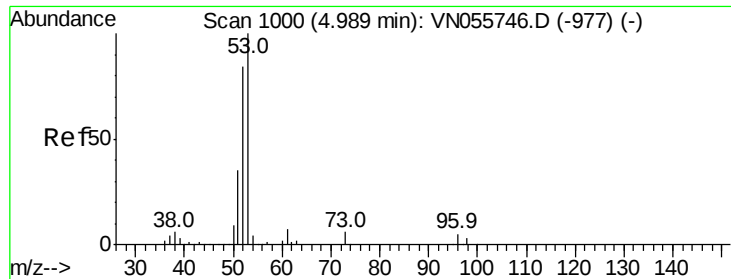
100000

50000

0

Time-->





#15

Acrylonitrile

Concen: 495.024 ug/l

RT: 4.99 min Scan# 1000

Delta R.T. 0.00 min

Lab File: VN055747.D

Acq: 23 May 2019 11:00

Instrument :

MSVOA_N

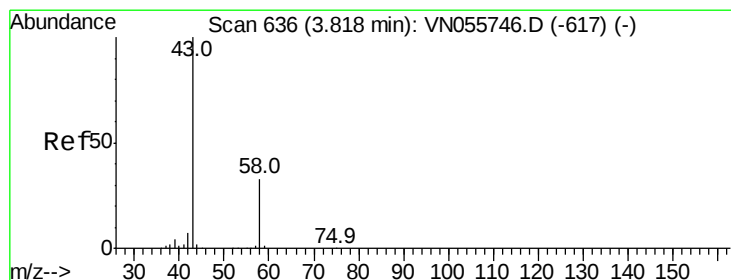
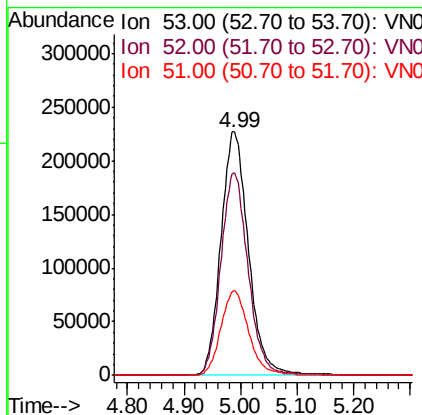
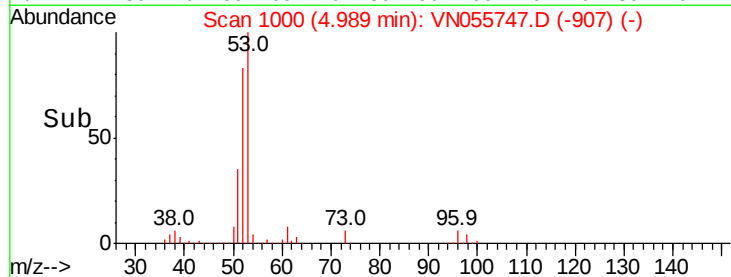
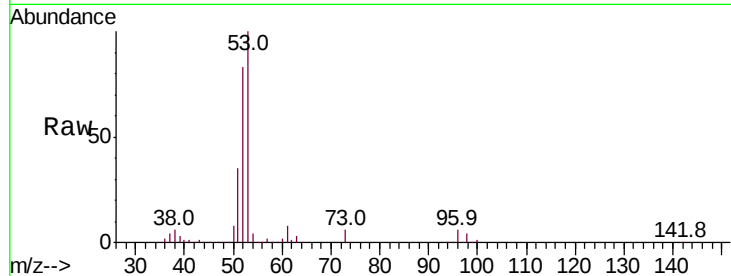
ClientSampleId :

VSTDIC100

Tot Ion:	53	Resp:	769724
Ion	Ratio	Lower	Upper
53	100		
52	82.2	65.8	98.8
51	35.2	28.2	42.4

Manual Integrations
APPROVED

MMDadoda
5/24/2019 9:22:11 AM



#16

Acetone

Concen: 470.950 ug/l

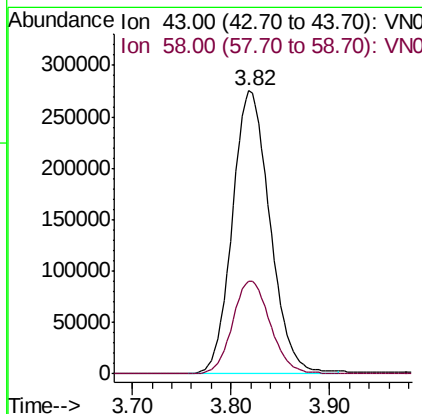
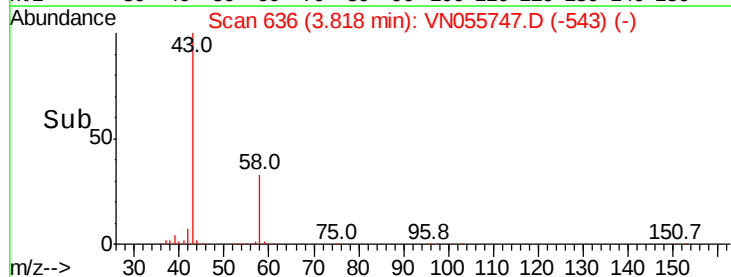
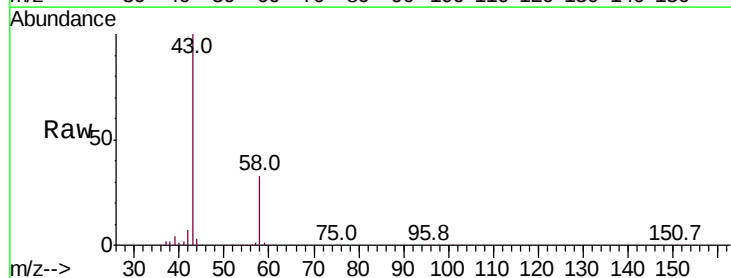
RT: 3.82 min Scan# 636

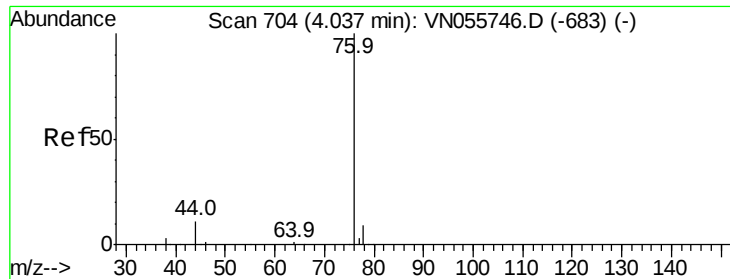
Delta R.T. 0.00 min

Lab File: VN055747.D

Acq: 23 May 2019 11:00

Tgt Ion:	43	Resp:	723940
Ion	Ratio	Lower	Upper
43	100		
58	33.0	26.6	39.8





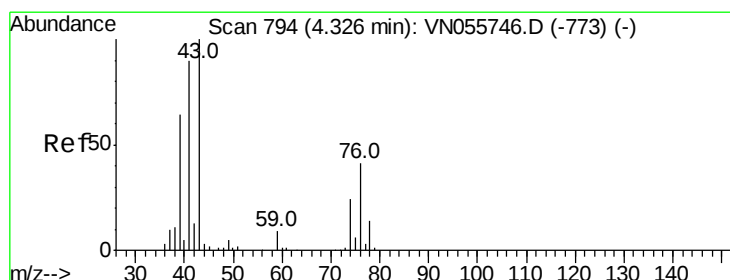
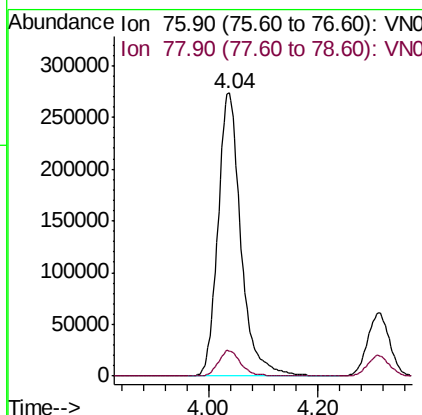
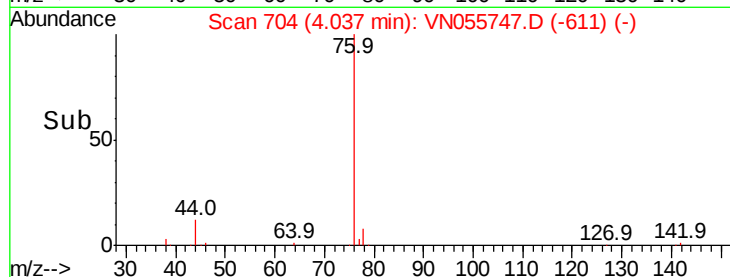
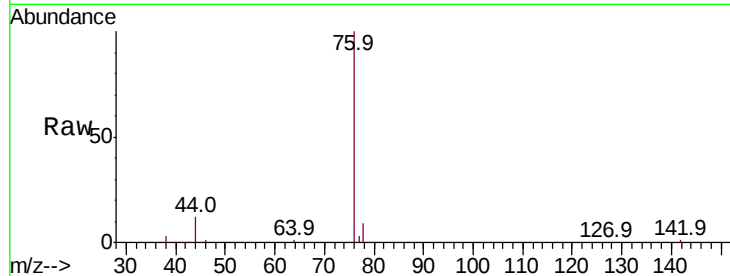
#17
Carbon Disulfide
Concen: 92.322 ug/l
RT: 4.04 min Scan# 704
Delta R.T. 0.00 min
Lab File: VN055747.D
Acq: 23 May 2019 11:00

Instrument :
MSVOA_N
ClientSampleId :
VSTDIC100

Tot Ion: 76 Resp: 796620
Ion Ratio Lower Upper
76 100
78 9.0 7.4 11.2

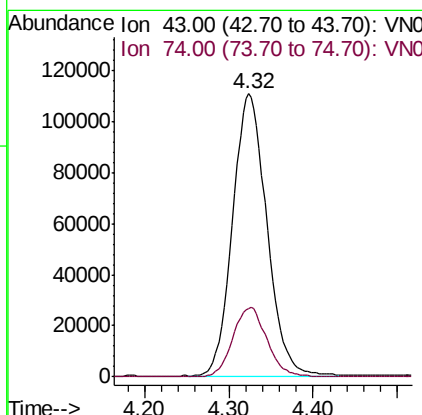
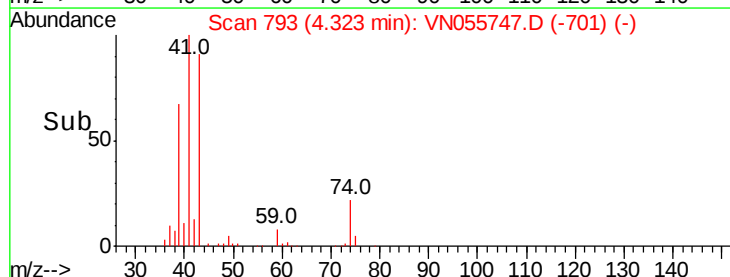
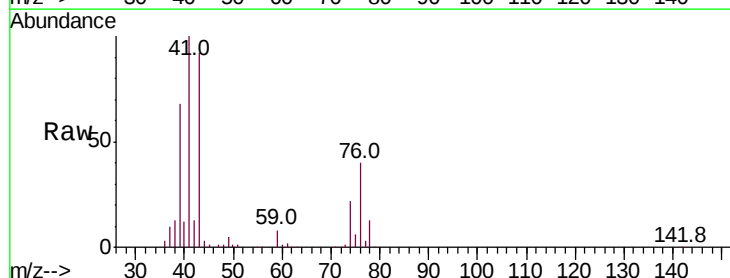
Manual Integrations
APPROVED

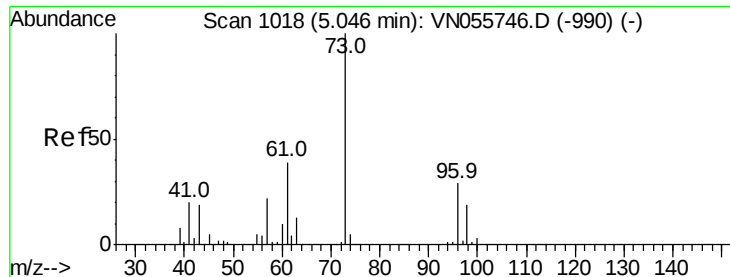
MMDadoda
5/24/2019 9:22:11 AM



#18
Methyl Acetate
Concen: 94.596 ug/l
RT: 4.32 min Scan# 793
Delta R.T. -0.00 min
Lab File: VN055747.D
Acq: 23 May 2019 11:00

Tgt Ion: 43 Resp: 310847
Ion Ratio Lower Upper
43 100
74 24.8 19.3 28.9





#19

Methyl tert-butyl Ether

Concen: 92.014 ug/l

RT: 5.05 min Scan# 1018

Delta R.T. 0.00 min

Lab File: VN055747.D

Acq: 23 May 2019 11:00

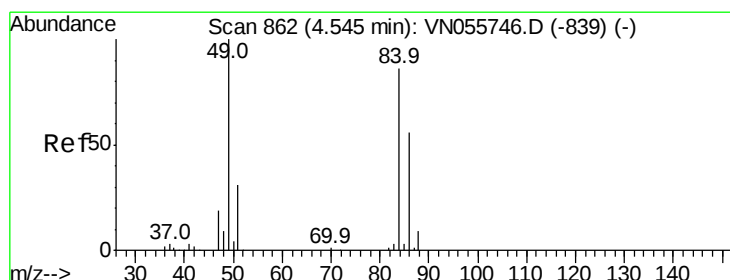
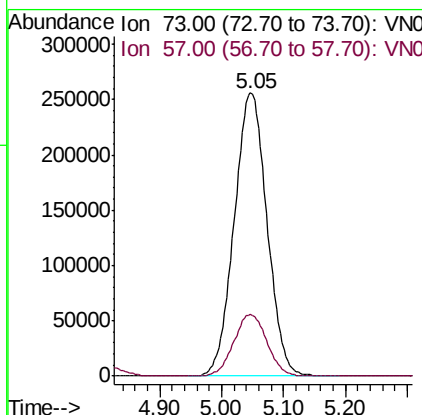
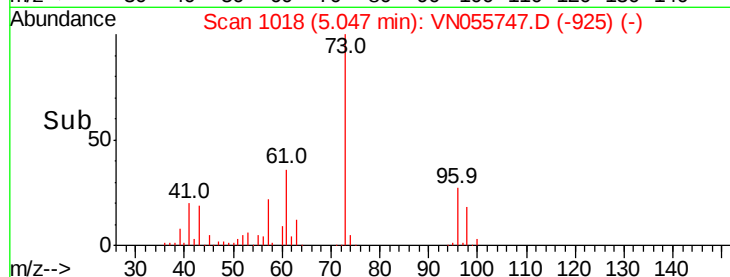
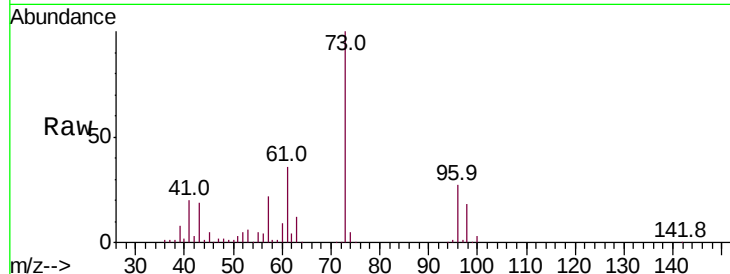
Instrument :
MSVOA_N
ClientSampleId :
VSTDIC100

Tot Ion: 73 Resp: 943119

Ion	Ratio	Lower	Upper
73	100		
57	21.8	17.8	26.8

Manual Integrations
APPROVED

MMDadoda
5/24/2019 9:22:11 AM



#20

Methylene Chloride

Concen: 92.007 ug/l

RT: 4.54 min Scan# 861

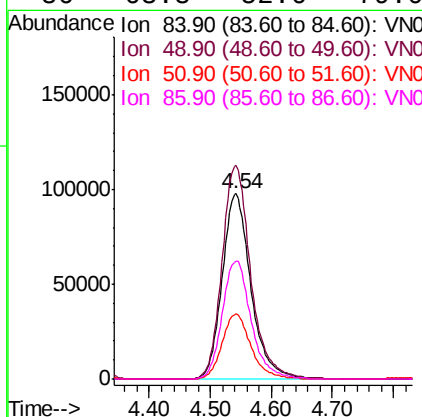
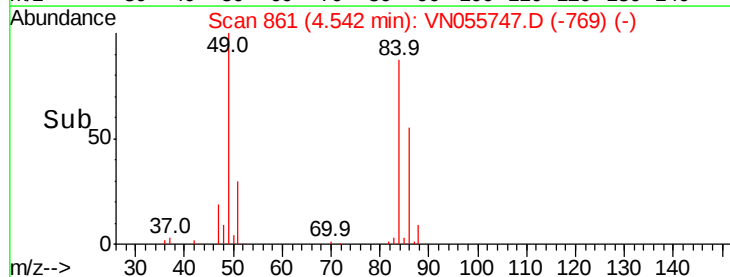
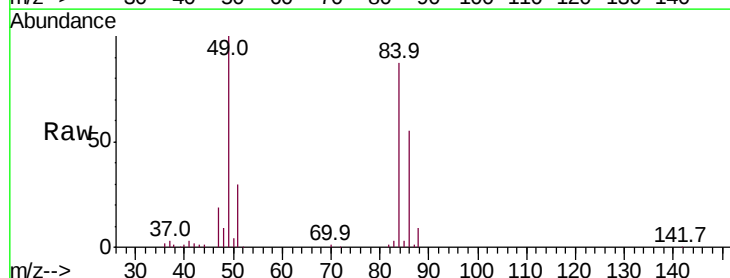
Delta R.T. -0.00 min

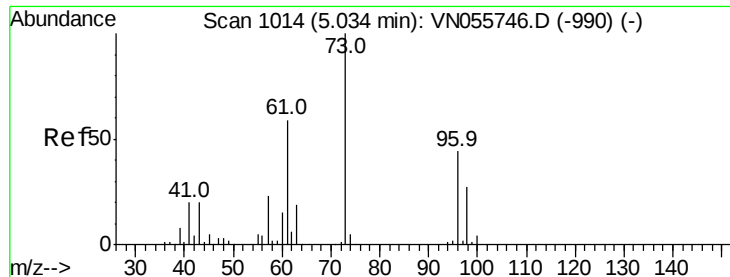
Lab File: VN055747.D

Acq: 23 May 2019 11:00

Tgt Ion: 84 Resp: 319957

Ion	Ratio	Lower	Upper
84	100		
49	115.1	93.5	140.3
51	35.1	28.6	43.0
86	63.8	52.6	79.0





#21

trans-1,2-Dichloroethene

Concen: 91.337 ug/l

RT: 5.03 min Scan# 1013

Delta R.T. -0.00 min

Lab File: VN055747.D

Acq: 23 May 2019 11:00

Instrument :

MSVOA_N

ClientSampleId :

VSTDIC100

Tot Ion: 96 Resp: 301815

Ion Ratio Lower Upper

96 100

61 135.7 107.8 161.8

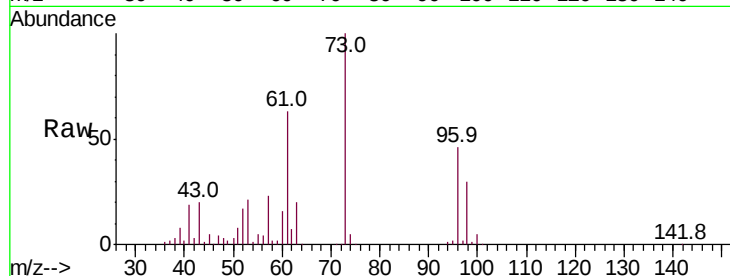
98 65.2 49.8 74.8

Manual Integrations

APPROVED

MMDadoda

5/24/2019 9:22:11 AM

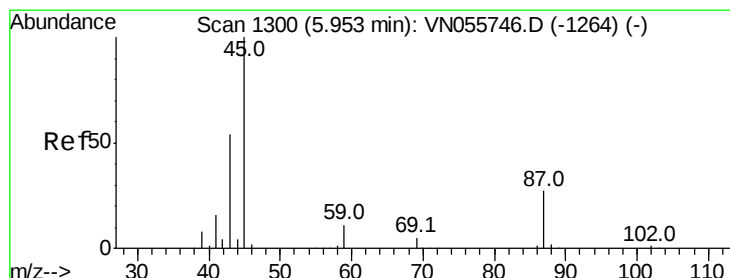
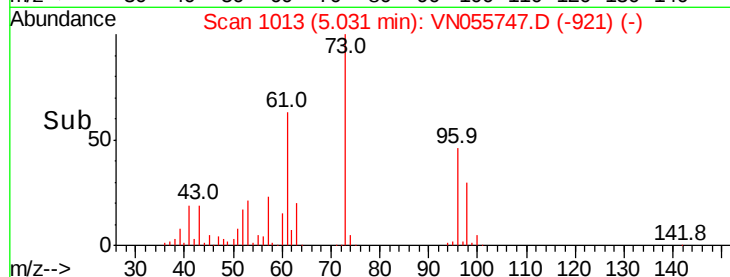
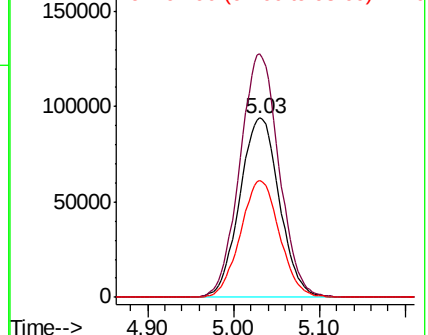


Abundance

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



#22

Diisopropyl ether

Concen: 95.605 ug/l

RT: 5.95 min Scan# 1300

Delta R.T. 0.00 min

Lab File: VN055747.D

Acq: 23 May 2019 11:00

Tgt Ion: 45 Resp: 954503

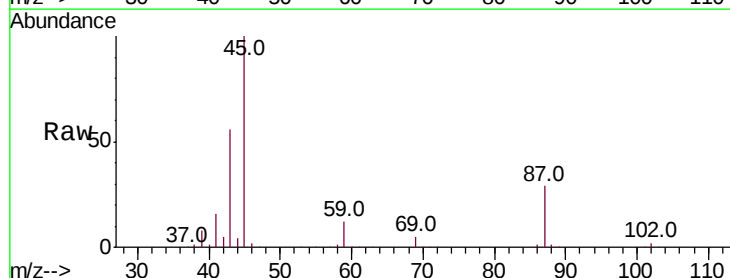
Ion Ratio Lower Upper

45 100

43 55.4 45.0 67.6

87 28.4 22.2 33.4

59 11.6 9.1 13.7



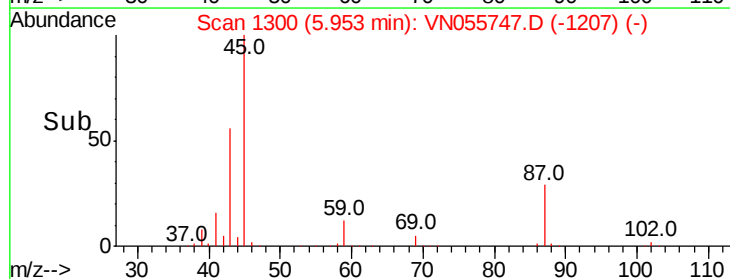
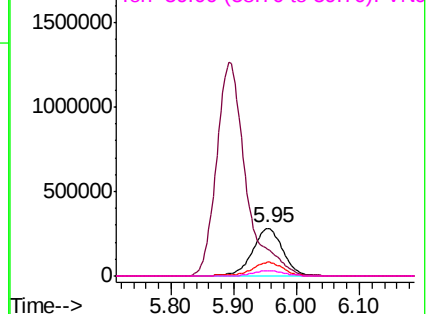
Abundance

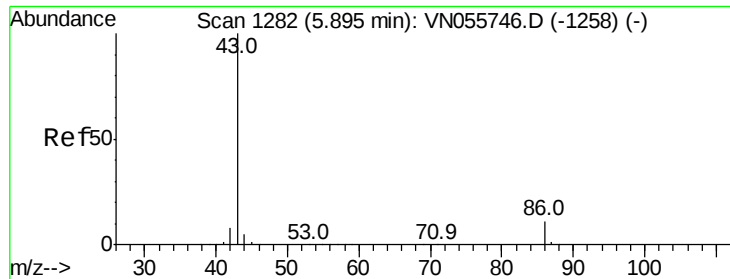
Ion 45.00 (44.70 to 45.70): VN0

Ion 43.00 (42.70 to 43.70): VN0

Ion 87.00 (86.70 to 87.70): VN0

Ion 59.00 (58.70 to 59.70): VN0





#23

Vinyl Acetate

Concen: 487.362 ug/l

RT: 5.89 min Scan# 1281

Delta R.T. -0.00 min

Lab File: VN055747.D

Acq: 23 May 2019 11:00

Instrument :

MSVOA_N

ClientSampled :

VSTDIC100

Tot Ion: 43 Resp: 4127634

Ion Ratio Lower Upper

43 100

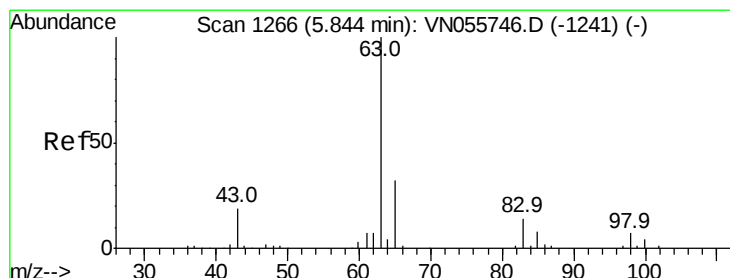
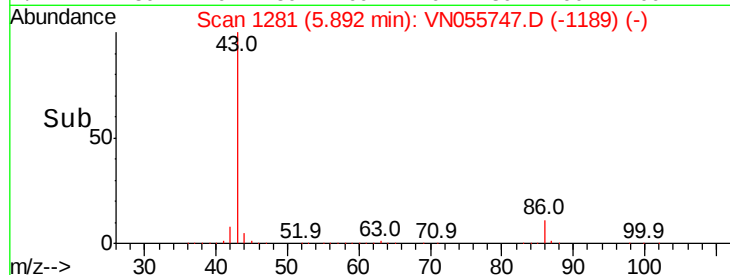
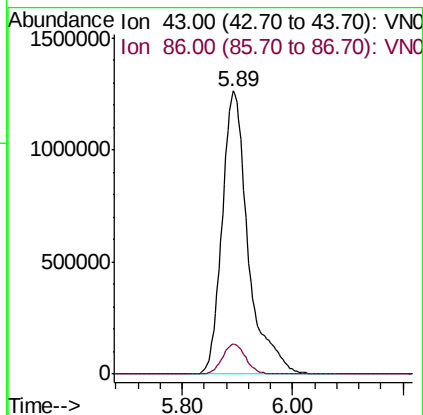
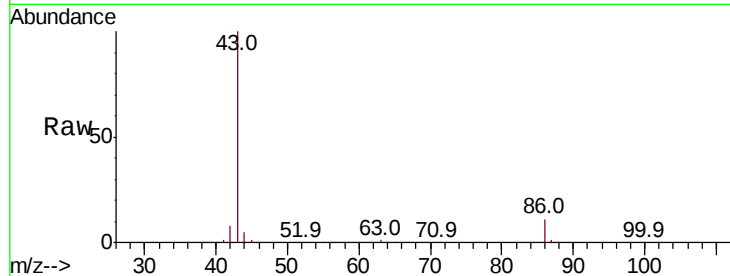
86 10.7 8.6 13.0

Manual Integrations

APPROVED

MMDadoda

5/24/2019 9:22:11 AM



#24

1,1-Dichloroethane

Concen: 93.966 ug/l

RT: 5.84 min Scan# 1265

Delta R.T. -0.00 min

Lab File: VN055747.D

Acq: 23 May 2019 11:00

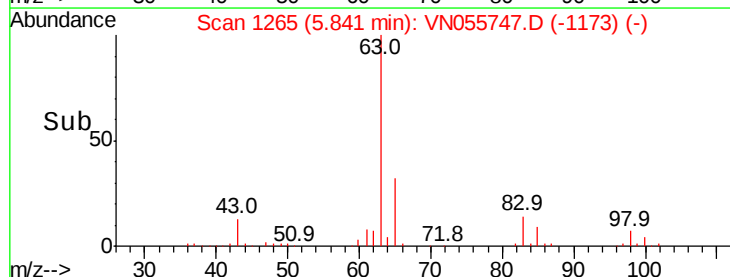
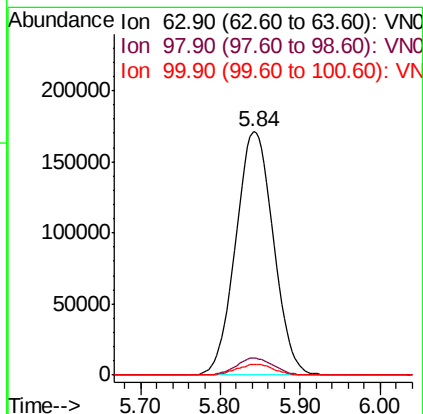
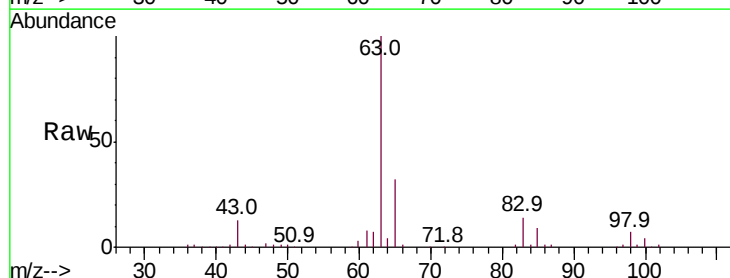
Tgt Ion: 63 Resp: 546440

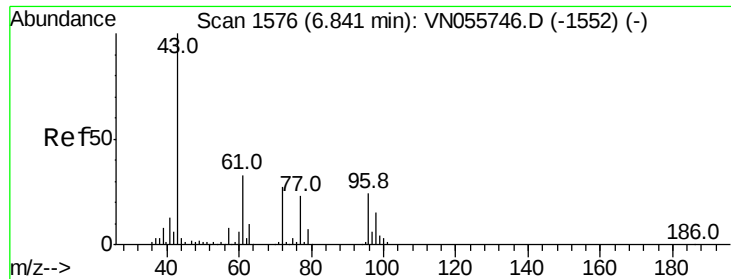
Ion Ratio Lower Upper

63 100

98 6.9 3.4 10.1

100 4.4 2.2 6.6





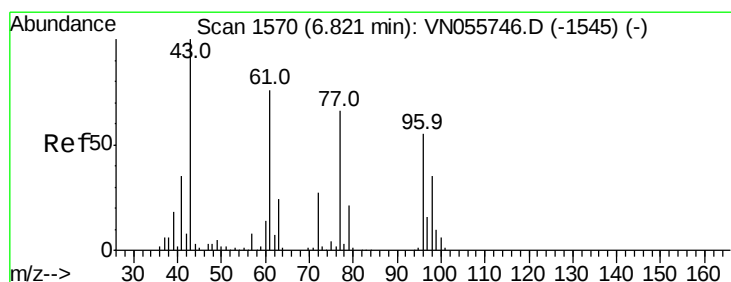
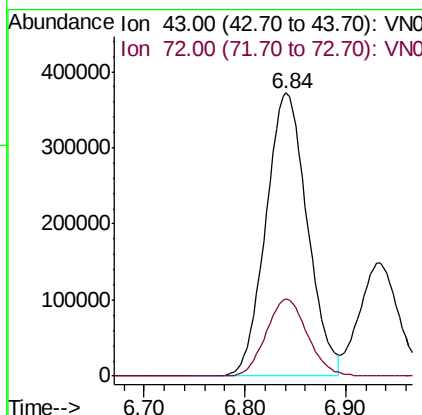
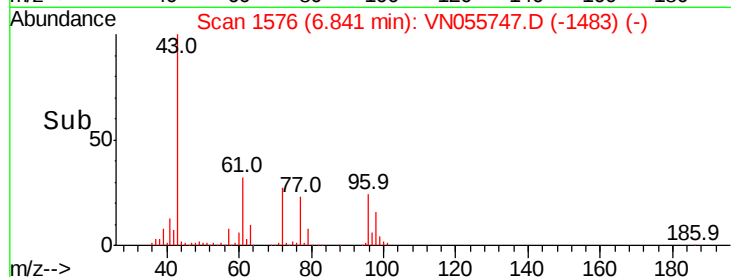
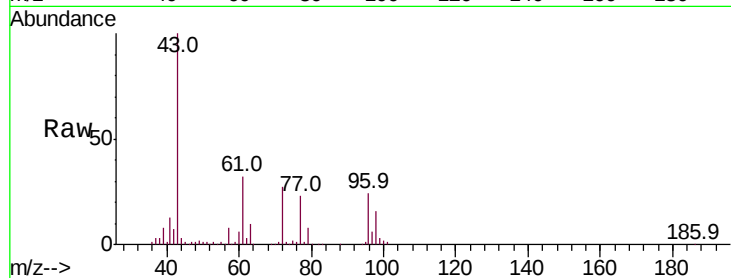
#25
2-Butanone
Concen: 494.382 ug/l
RT: 6.84 min Scan# 1576
Delta R.T. 0.00 min
Lab File: VN055747.D
Acq: 23 May 2019 11:00

Instrument :
MSVOA_N
ClientSampleId :
VSTDIC100

Tot Ion: 43 Resp: 1059069
Ion Ratio Lower Upper
43 100
72 27.3 21.9 32.9

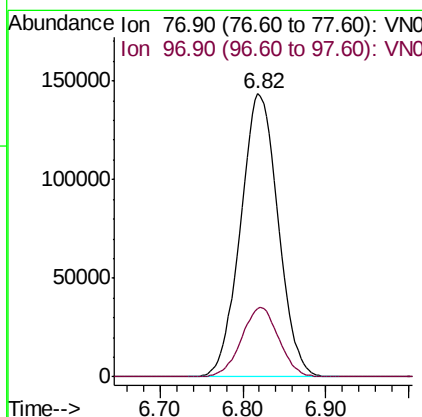
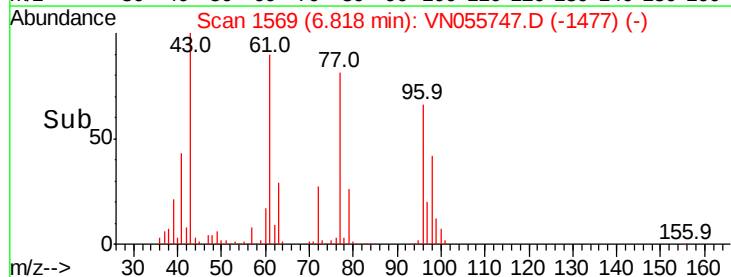
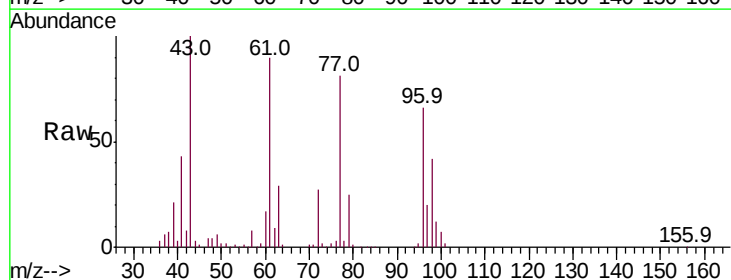
Manual Integrations
APPROVED

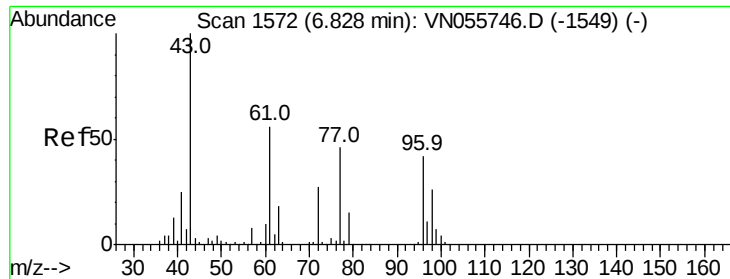
MMDadoda
5/24/2019 9:22:11 AM



#26
2,2-Dichloropropane
Concen: 87.904 ug/l
RT: 6.82 min Scan# 1569
Delta R.T. -0.00 min
Lab File: VN055747.D
Acq: 23 May 2019 11:00

Tgt Ion: 77 Resp: 452737
Ion Ratio Lower Upper
77 100
97 24.4 12.2 36.6





#27

cis-1,2-Dichloroethene

Concen: 92.630 ug/l

RT: 6.82 min Scan# 1571

Delta R.T. -0.00 min

Lab File: VN055747.D

Acq: 23 May 2019 11:00

Instrument :

MSVOA_N

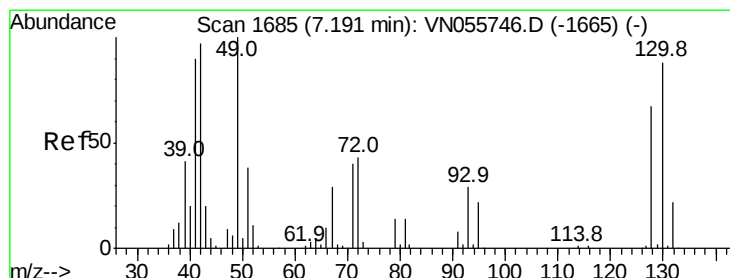
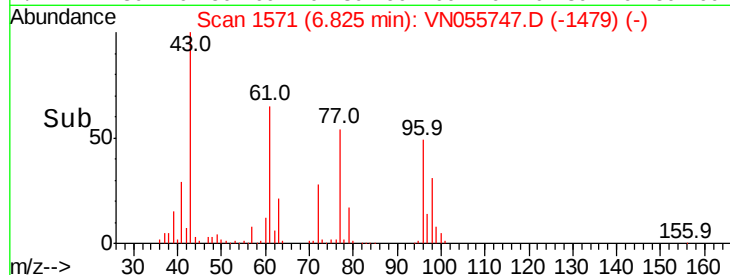
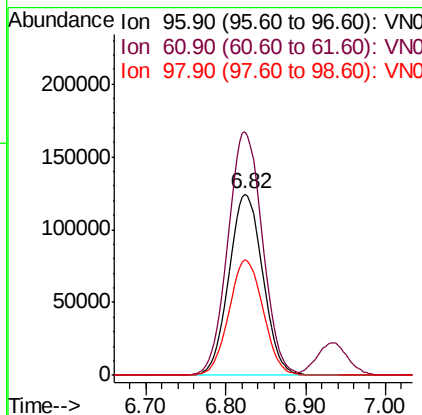
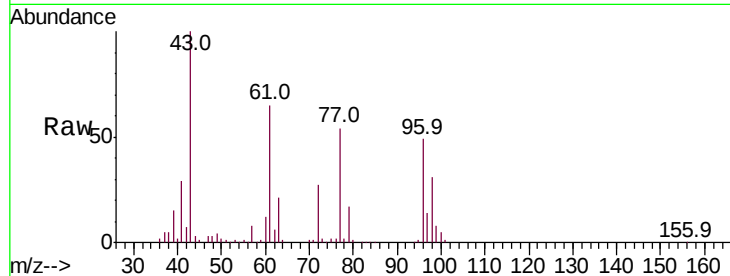
ClientSampleId :

VSTDIC100

Tot Ion:	96	Resp:	357650
Ion	Ratio	Lower	Upper
96	100		
61	137.1	0.0	275.8
98	64.4	0.0	128.4

Manual Integrations
APPROVED

MMDadoda
5/24/2019 9:22:11 AM



#28

Bromochloromethane

Concen: 102.849 ug/l

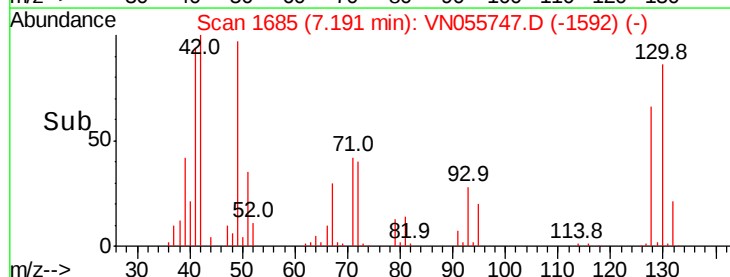
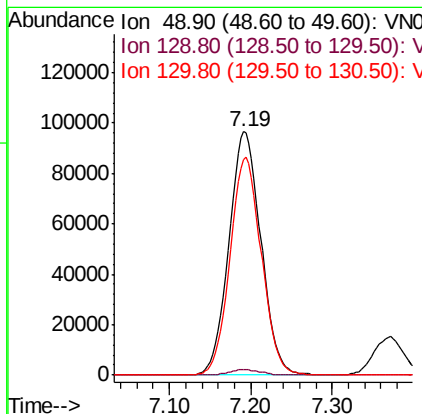
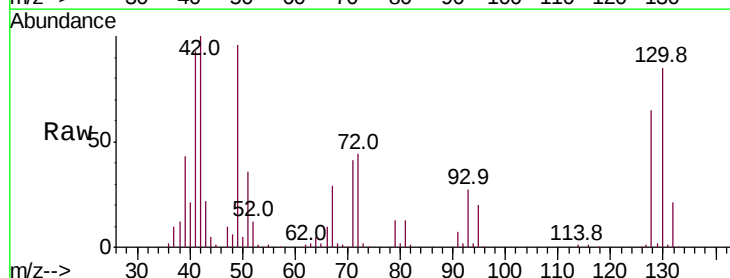
RT: 7.19 min Scan# 1685

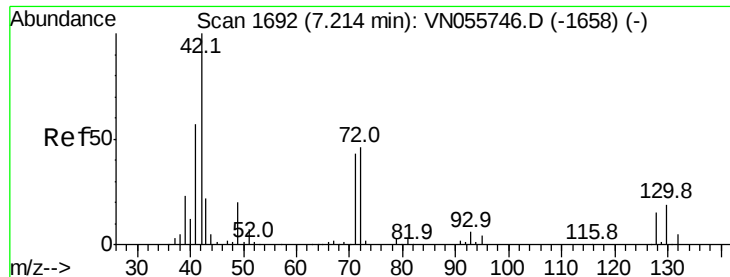
Delta R.T. 0.00 min

Lab File: VN055747.D

Acq: 23 May 2019 11:00

Tgt Ion:	49	Resp:	264091
Ion	Ratio	Lower	Upper
49	100		
129	2.2	0.0	4.4
130	87.9	71.2	106.8





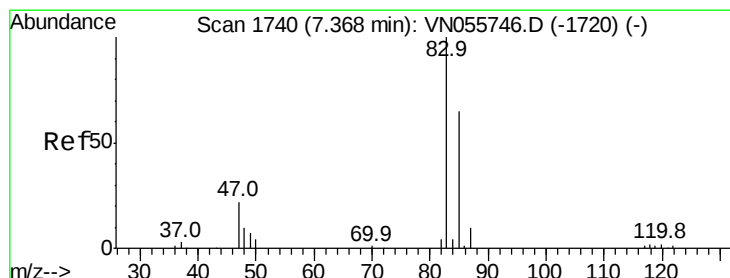
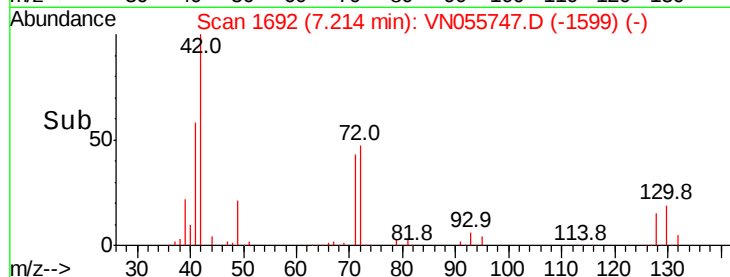
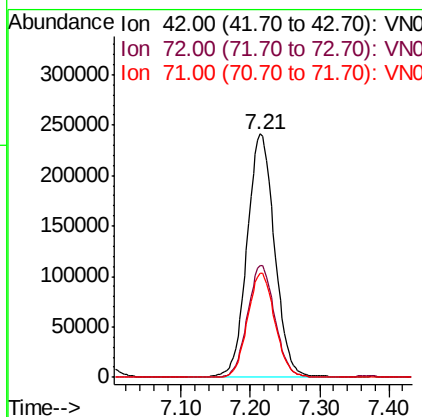
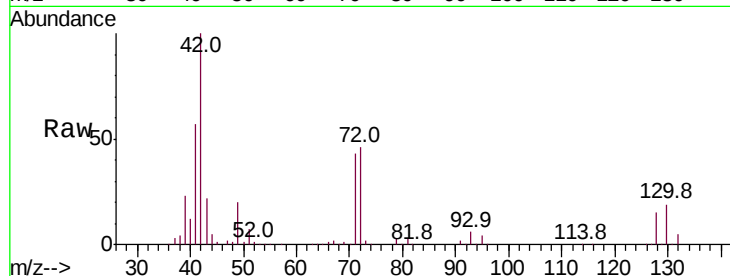
#29
Tetrahydrofuran
Concen: 469.085 ug/l
RT: 7.21 min Scan# 1692
Delta R.T. 0.00 min
Lab File: VN055747.D
Acq: 23 May 2019 11:00

Instrument :
MSVOA_N
ClientSampleId :
VSTDIC100

Tot Ion	Ratio	Lower	Upper
42	100		
72	45.4	35.9	53.9
71	42.6	34.0	51.0

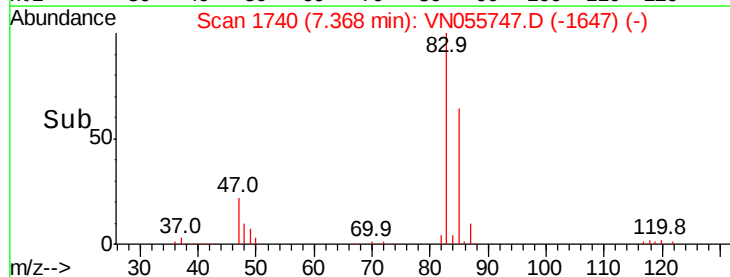
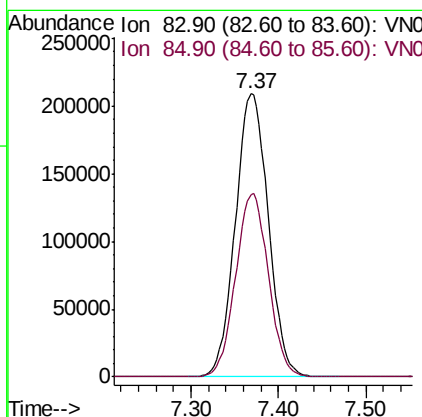
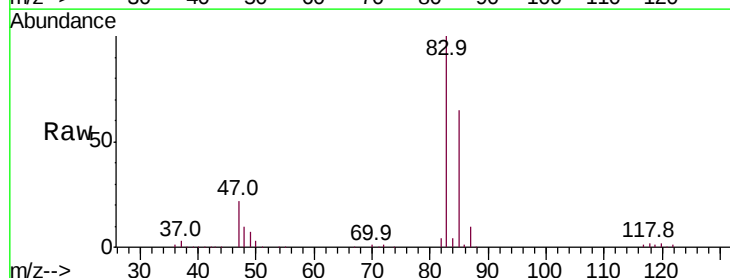
Manual Integrations
APPROVED

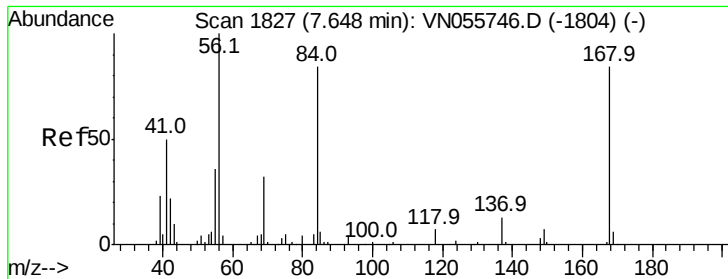
MMDadoda
5/24/2019 9:22:11 AM



#30
Chloroform
Concen: 91.329 ug/l
RT: 7.37 min Scan# 1740
Delta R.T. 0.00 min
Lab File: VN055747.D
Acq: 23 May 2019 11:00

Tgt Ion	Ratio	Lower	Upper
83	100		
85	64.5	51.8	77.8





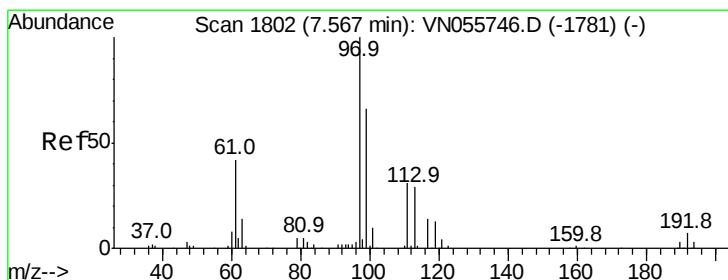
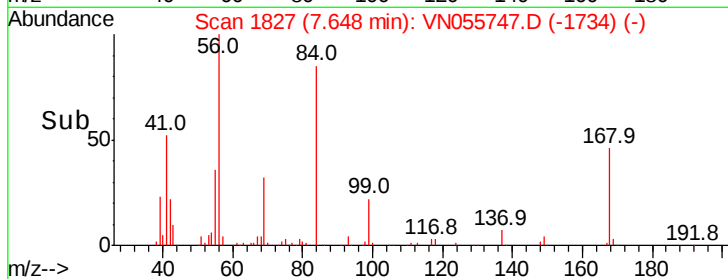
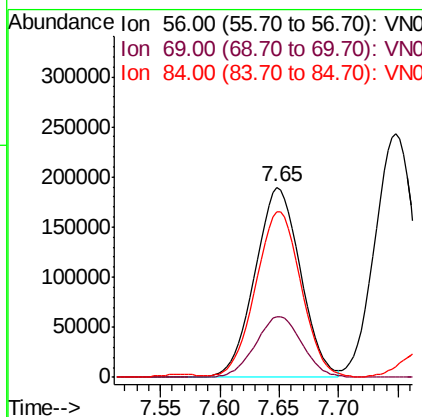
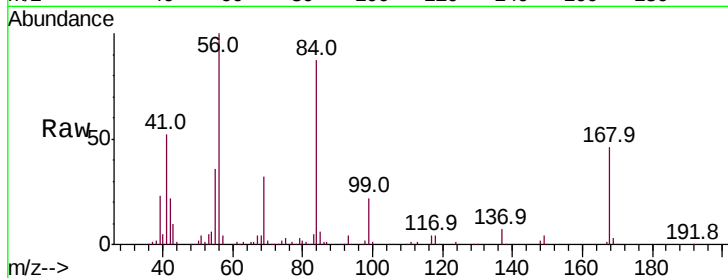
#31
Cyclohexane
Concen: 90.396 ug/l
RT: 7.65 min Scan# 1827
Delta R.T. 0.00 min
Lab File: VN055747.D
Acq: 23 May 2019 11:00

Instrument :
MSVOA_N
ClientSampleId :
VSTDIC100

Tot Ion	Ratio	Lower	Upper
56	100		
69	32.0	25.6	38.4
84	86.0	67.4	101.0

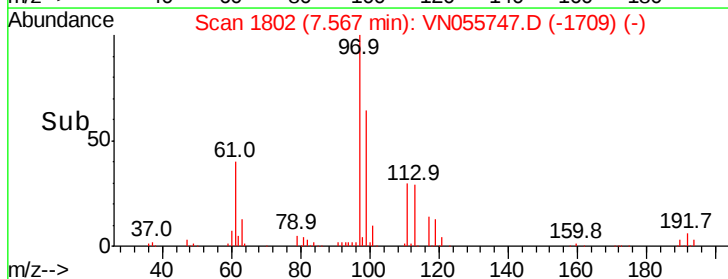
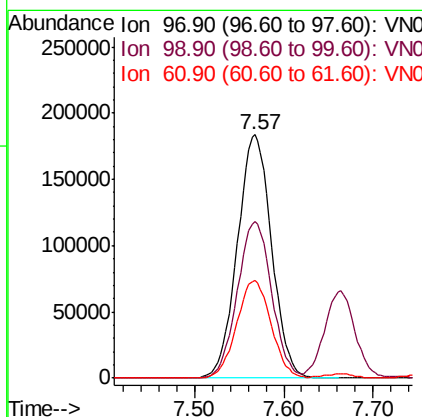
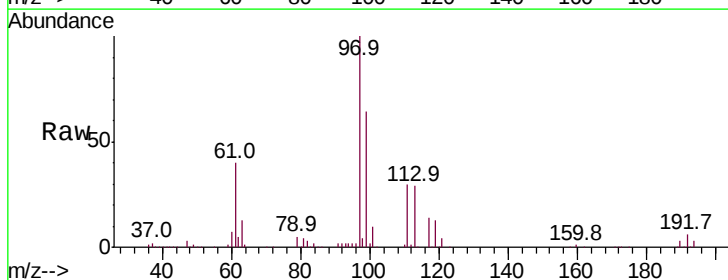
Manual Integrations
APPROVED

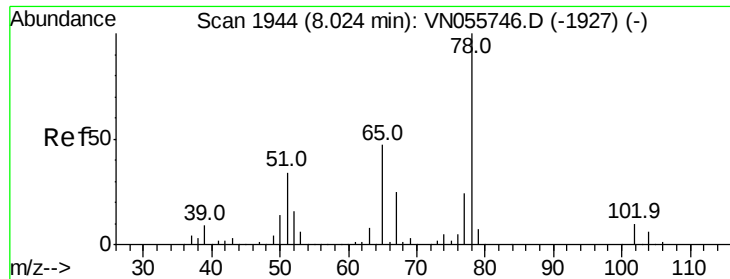
MMDadoda
5/24/2019 9:22:11 AM



#32
1,1,1-Trichloroethane
Concen: 91.263 ug/l
RT: 7.57 min Scan# 1802
Delta R.T. 0.00 min
Lab File: VN055747.D
Acq: 23 May 2019 11:00

Tgt Ion	Ratio	Lower	Upper
97	100		
99	64.4	52.0	78.0
61	40.4	32.9	49.3





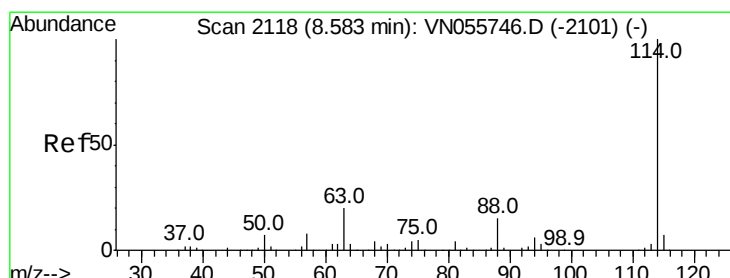
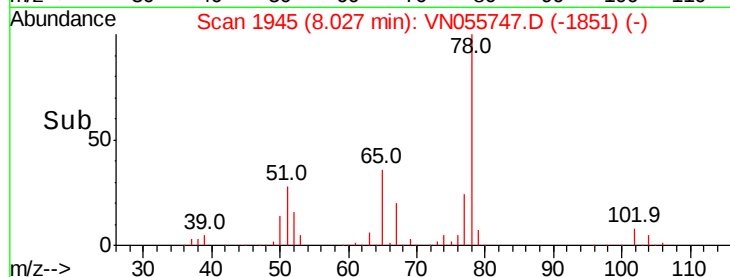
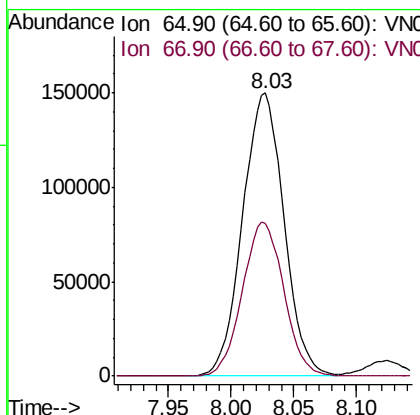
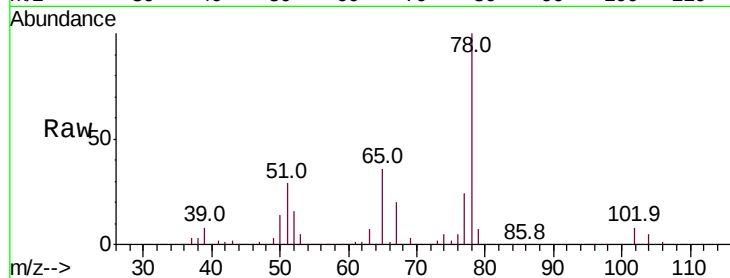
#33
 1,2-Dichloroethane-d4
 Concen: 92.532 ug/l
 RT: 8.03 min Scan# 1945
 Delta R.T. 0.00 min
 Lab File: VN055747.D
 Acq: 23 May 2019 11:00

Instrument :
 MSVOA_N
 ClientSampleId :
 VSTDIC100

Tot Ion	Ratio	Resp	Lower	Upper
65	100			
67	54.5	0.0	109.2	

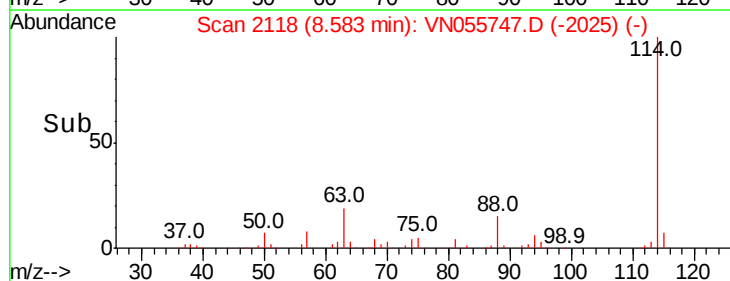
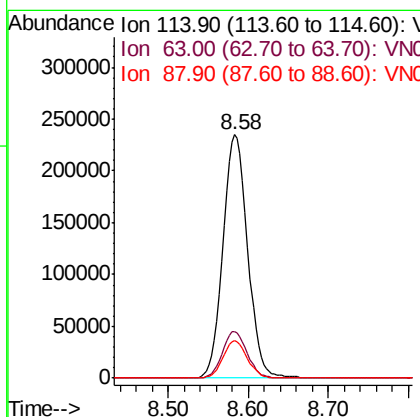
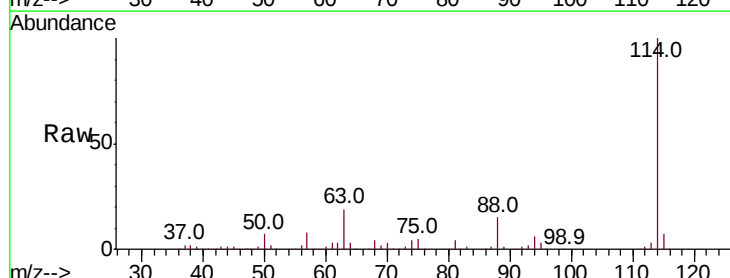
Manual Integrations
 APPROVED

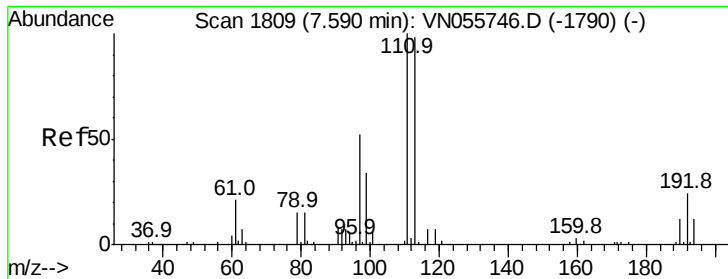
MMDadoda
 5/24/2019 9:22:11 AM



#34
 1,4-Difluorobenzene
 Concen: 50.000 ug/l
 RT: 8.58 min Scan# 2118
 Delta R.T. 0.00 min
 Lab File: VN055747.D
 Acq: 23 May 2019 11:00

Tgt Ion	Ratio	Resp	Lower	Upper
114	100			
63	19.1	0.0	39.2	
88	15.2	0.0	31.0	





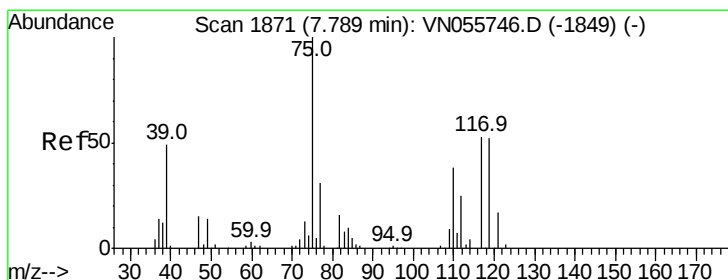
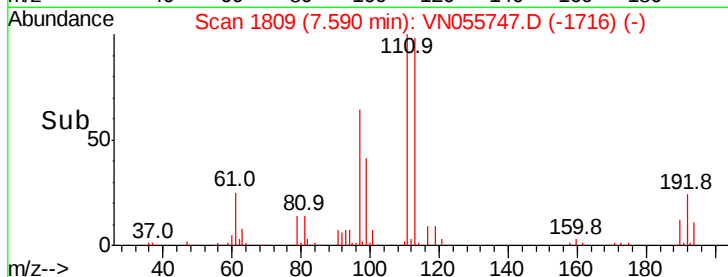
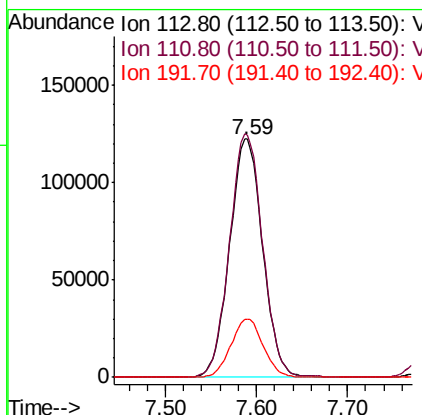
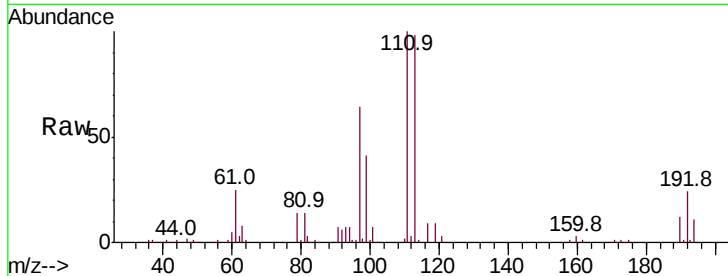
#35
 Dibromofluoromethane
 Concen: 97.598 ug/l
 RT: 7.59 min Scan# 1809
 Delta R.T. 0.00 min
 Lab File: VN055747.D
 Acq: 23 May 2019 11:00

Instrument :
 MSVOA_N
 ClientSampleId :
 VSTDIC100

Tot Ion	Ratio	Resp	Lower	Upper
113	100			
111	102.7	81.9	122.9	
192	24.0	19.5	29.3	

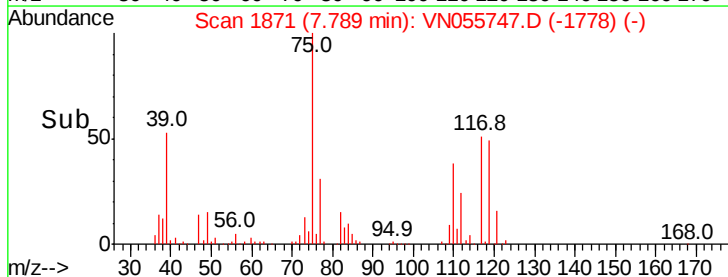
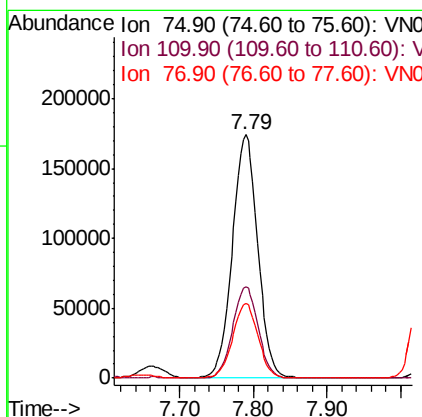
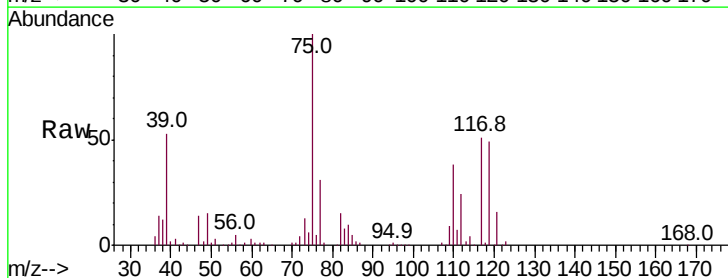
Manual Integrations
 APPROVED

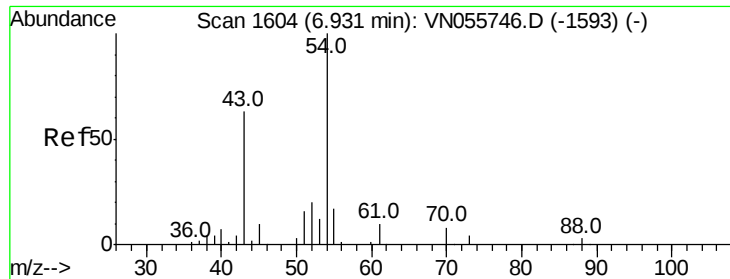
MMDadoda
 5/24/2019 9:22:11 AM



#36
 1,1-Dichloropropene
 Concen: 94.614 ug/l
 RT: 7.79 min Scan# 1871
 Delta R.T. 0.00 min
 Lab File: VN055747.D
 Acq: 23 May 2019 11:00

Tgt Ion	Ratio	Resp	Lower	Upper
75	100			
110	37.6	19.0	57.0	
77	30.9	25.1	37.7	





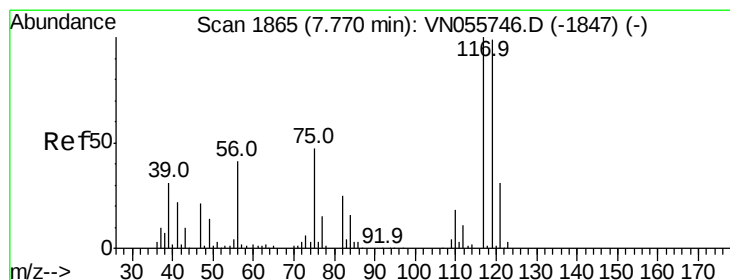
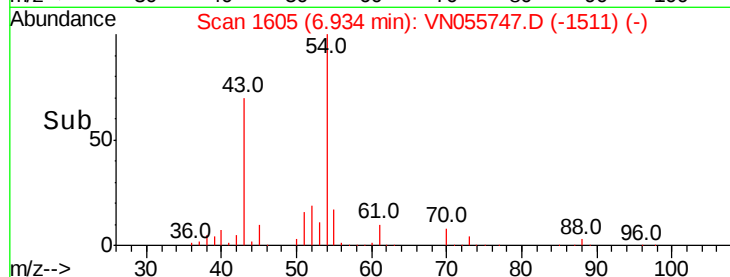
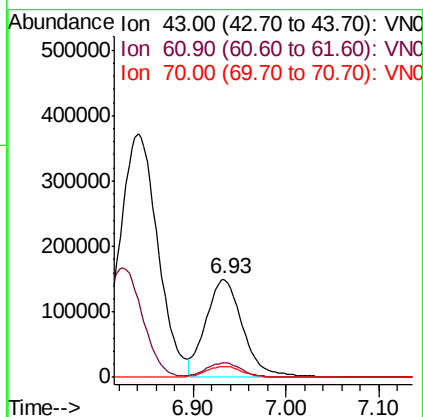
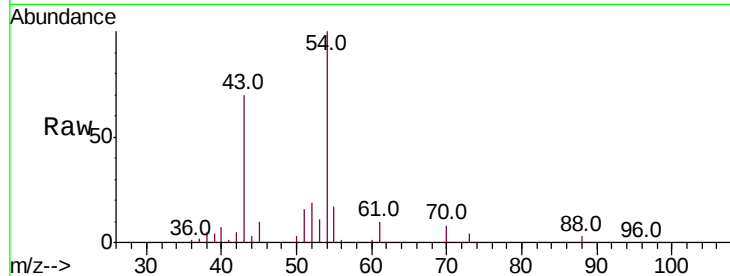
#37
Ethyl Acetate
Concen: 102.420 ug/l
RT: 6.93 min Scan# 1605
Delta R.T. 0.00 min
Lab File: VN055747.D
Acq: 23 May 2019 11:00

Instrument :
MSVOA_N
ClientSampleId :
VSTDIC100

Tot Ion	Ratio	Lower	Upper
43	100		
61	14.8	12.2	18.2
70	11.2	8.9	13.3

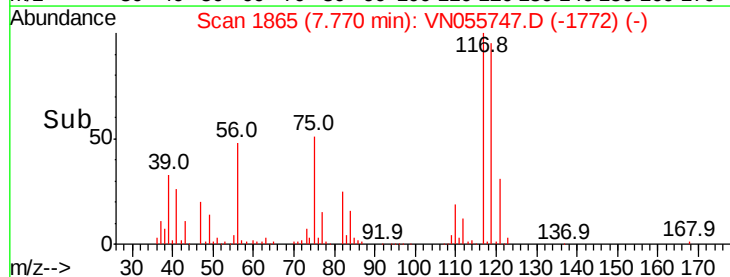
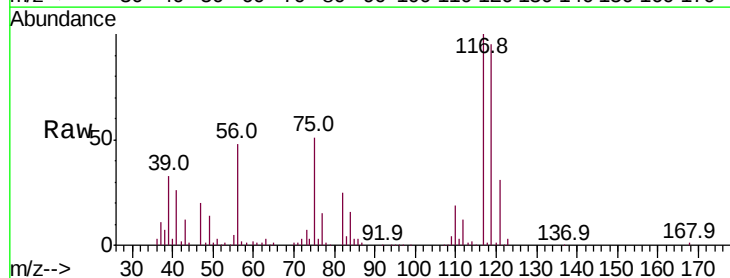
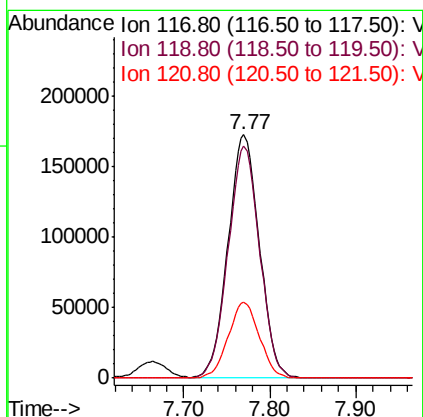
Manual Integrations
APPROVED

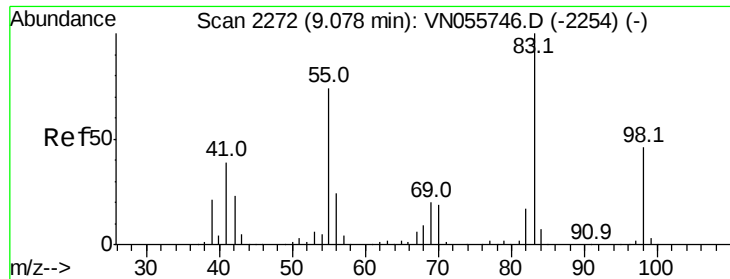
MMDadoda
5/24/2019 9:22:11 AM



#38
Carbon Tetrachloride
Concen: 92.544 ug/l
RT: 7.77 min Scan# 1865
Delta R.T. 0.00 min
Lab File: VN055747.D
Acq: 23 May 2019 11:00

Tgt Ion	Ratio	Lower	Upper
117	100		
119	95.4	79.0	118.6
121	31.3	24.7	37.1





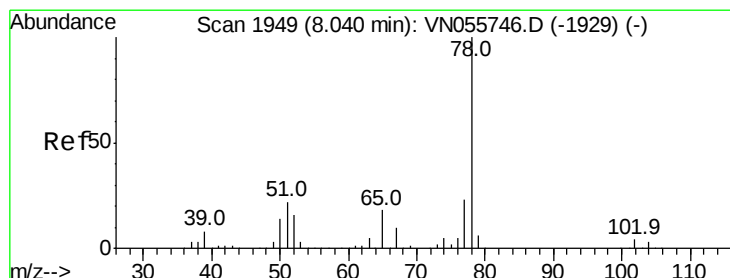
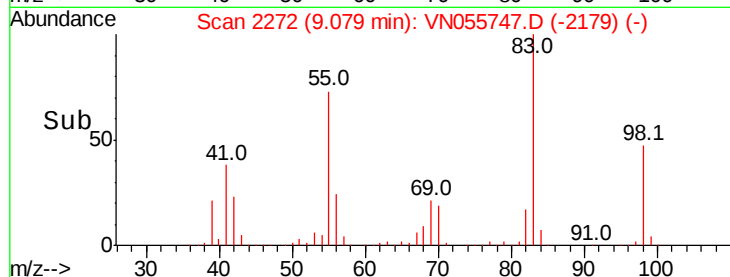
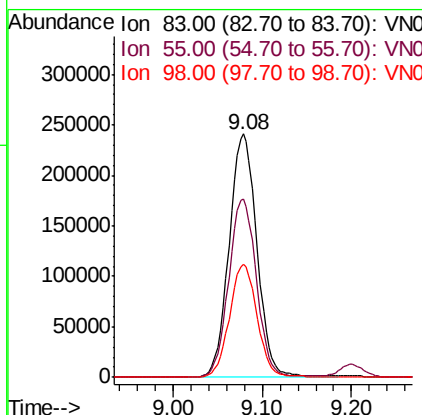
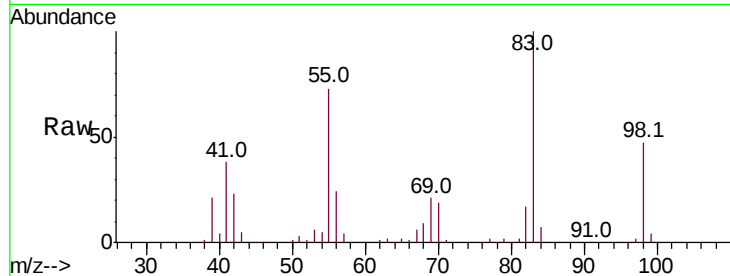
#39
Methvlcvclohexane
Concen: 97.276 ug/l
RT: 9.08 min Scan# 2272
Delta R.T. 0.00 min
Lab File: VN055747.D
Acq: 23 May 2019 11:00

Instrument :
MSVOA_N
ClientSampleId :
VSTDIC100

Tot Ion	Ratio	Lower	Upper
83	100		
55	73.3	59.3	88.9
98	46.6	36.6	54.8

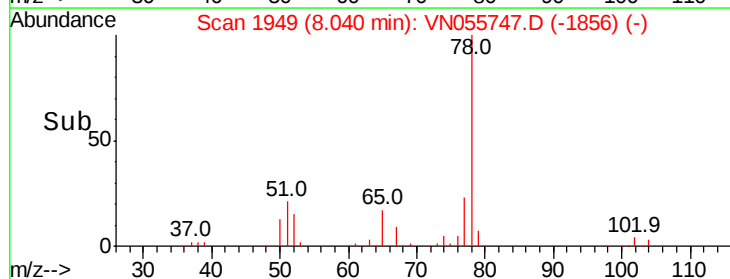
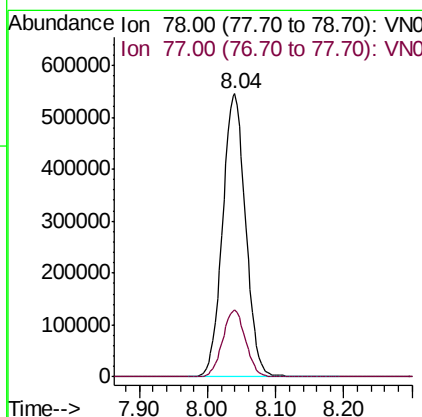
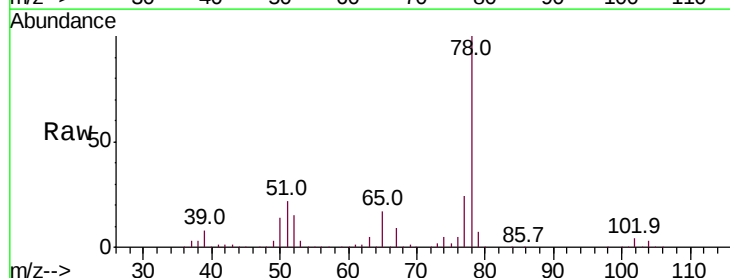
Manual Integrations
APPROVED

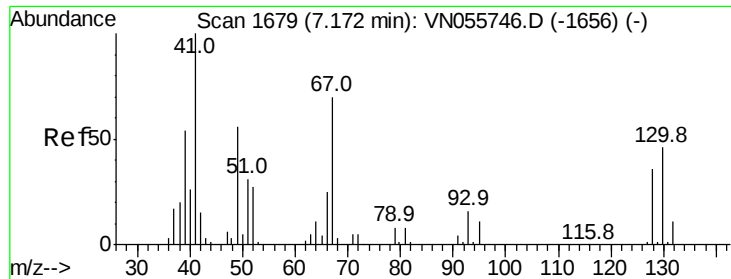
MMDadoda
5/24/2019 9:22:11 AM



#40
Benzene
Concen: 97.583 ug/l
RT: 8.04 min Scan# 1949
Delta R.T. 0.00 min
Lab File: VN055747.D
Acq: 23 May 2019 11:00

Tgt Ion	Ratio	Lower	Upper
78	100		
77	23.6	18.8	28.2





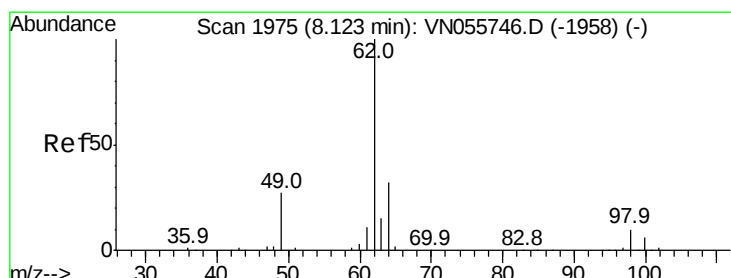
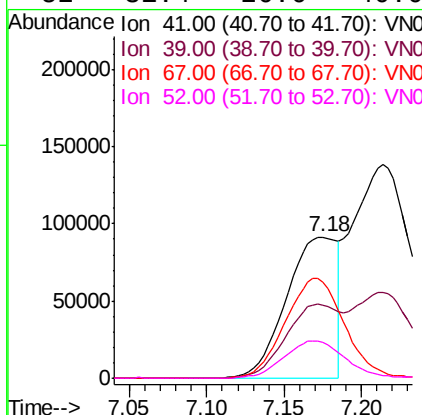
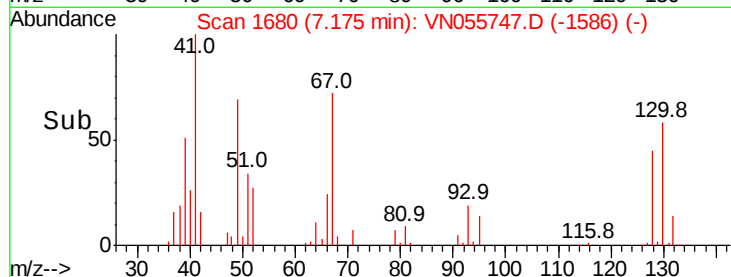
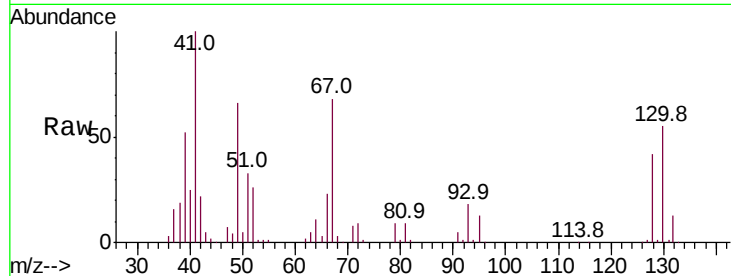
#41
Methacrylonitrile
Concen: 119.304 ug/l
RT: 7.18 min Scan# 1680
Delta R.T. 0.00 min
Lab File: VN055747.D
Acq: 23 May 2019 11:00

Instrument :
MSVOA_N
ClientSampleId :
VSTDICC100

Tot Ion	41	Resp	207469
Ion	Ratio	Lower	Upper
41	100		
39	55.9	45.6	68.4
67	83.3	67.7	101.5
52	31.4	26.6	40.0

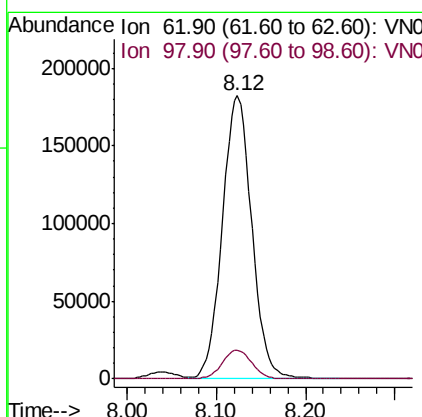
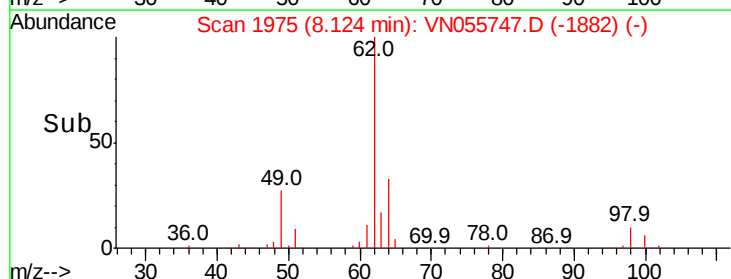
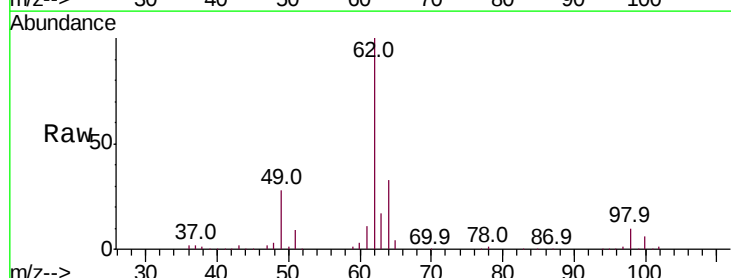
Manual Integrations
APPROVED

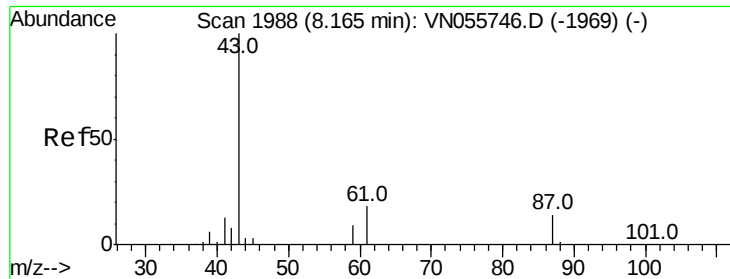
MMDadoda
5/24/2019 9:22:11 AM



#42
1,2-Dichloroethane
Concen: 98.302 ug/l
RT: 8.12 min Scan# 1975
Delta R.T. 0.00 min
Lab File: VN055747.D
Acq: 23 May 2019 11:00

Tgt Ion	62	Resp	415606
Ion	Ratio	Lower	Upper
62	100		
98	10.2	0.0	20.2





#43

Isopropyl Acetate

Concen: 100.367 ug/l

RT: 8.17 min Scan# 1988

Delta R.T. 0.00 min

Lab File: VN055747.D

Acq: 23 May 2019 11:00

Instrument :

MSVOA_N

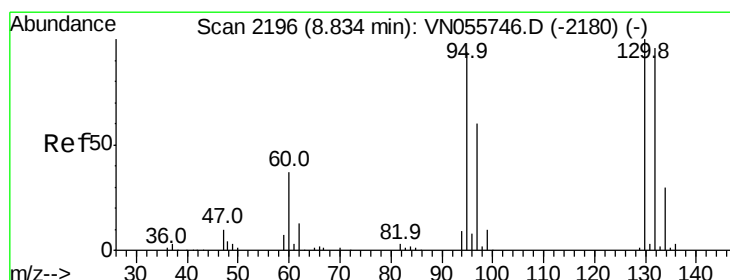
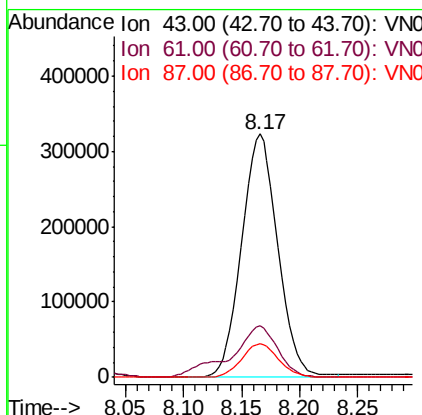
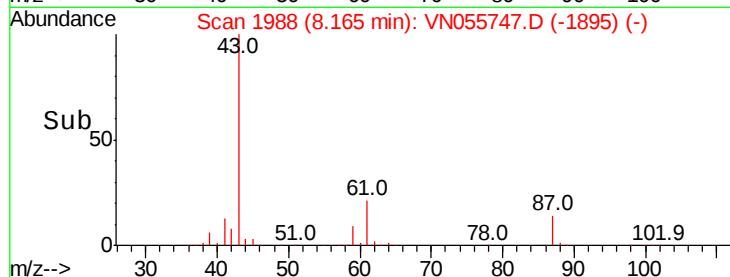
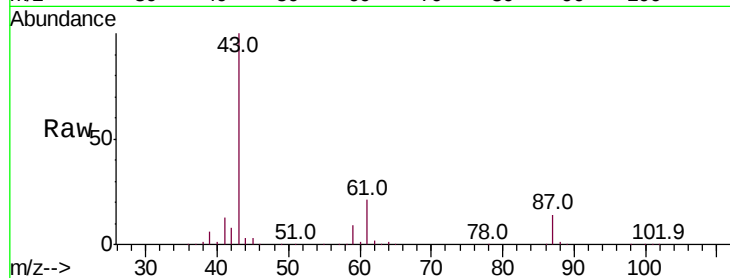
ClientSampleId :

VSTDIC100

Tot Ion:	43	Resp:	700461
Ion Ratio	Lower	Upper	
43	100		
61	27.4	22.2	33.4
87	14.2	11.4	17.2

Manual Integrations
APPROVED

MMDadoda
5/24/2019 9:22:11 AM



#44

Trichloroethene

Concen: 97.881 ug/l

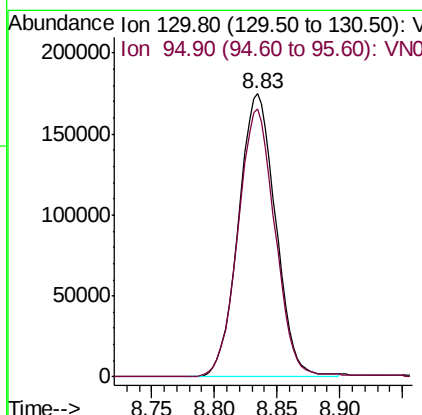
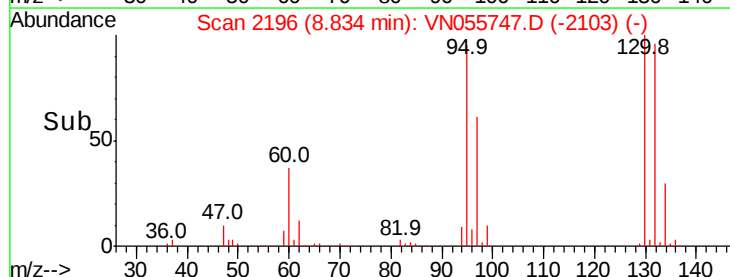
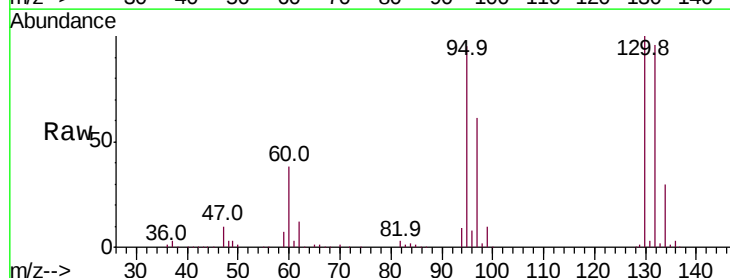
RT: 8.83 min Scan# 2196

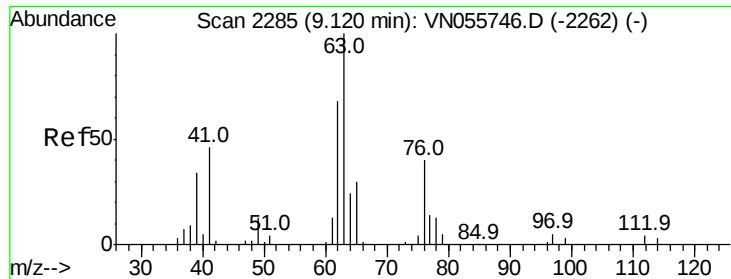
Delta R.T. 0.00 min

Lab File: VN055747.D

Acq: 23 May 2019 11:00

Tgt Ion:	130	Resp:	360950
Ion Ratio	Lower	Upper	
130	100		
95	94.5	0.0	188.0





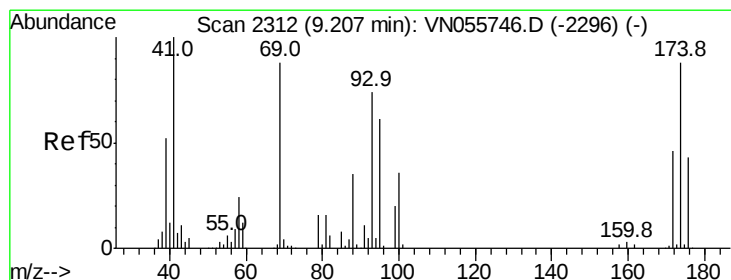
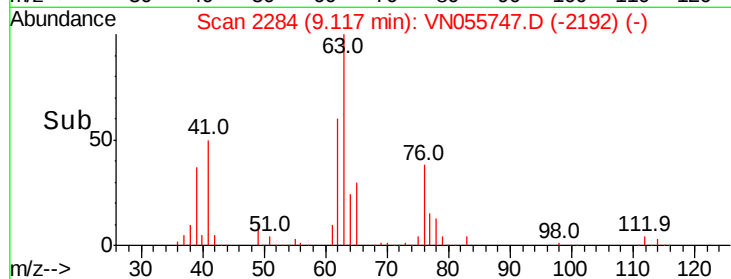
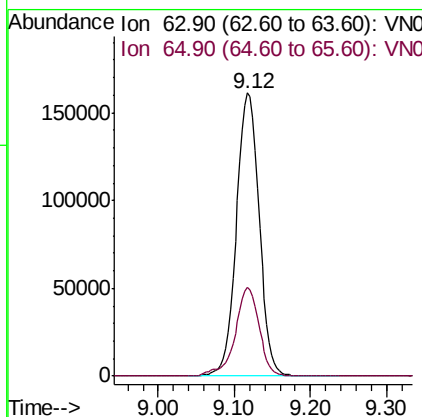
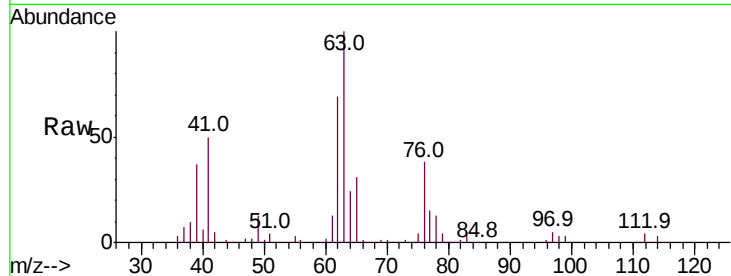
#45
 1,2-Dichloropropane
 Concen: 97.457 ug/l
 RT: 9.12 min Scan# 2284
 Delta R.T. -0.00 min
 Lab File: VN055747.D
 Acq: 23 May 2019 11:00

Instrument :
 MSVOA_N
 ClientSampleId :
 VSTDIC100

Tot Ion	Ratio	Lower	Upper
63	100		
65	31.2	24.6	36.8

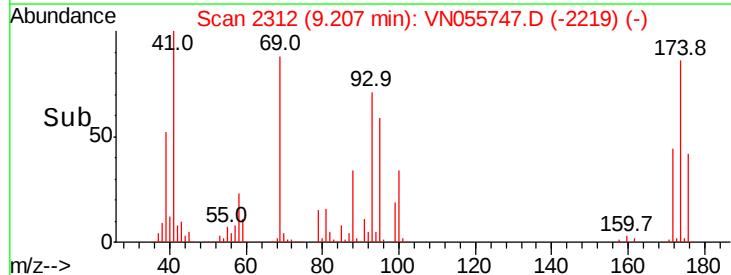
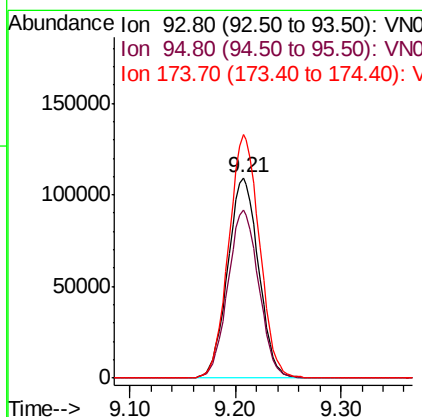
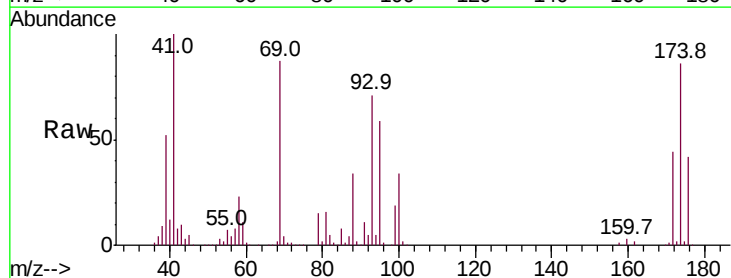
Manual Integrations
 APPROVED

MMDadoda
 5/24/2019 9:22:11 AM



#46
 Dibromomethane
 Concen: 98.030 ug/l
 RT: 9.21 min Scan# 2312
 Delta R.T. 0.00 min
 Lab File: VN055747.D
 Acq: 23 May 2019 11:00

Tgt Ion	Ratio	Lower	Upper
93	100		
95	84.1	66.7	100.1
174	121.5	96.4	144.6





#47

Bromodichloromethane

Concen: 95.694 ug/l

RT: 9.40 min Scan# 2372

Delta R.T. -0.00 min

Lab File: VN055747.D

Acq: 23 May 2019 11:00

Instrument :

MSVOA_N

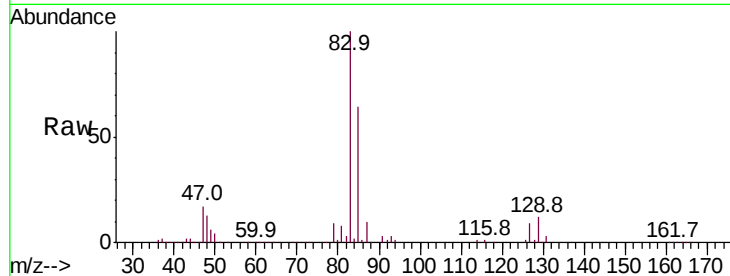
ClientSampleId :

VSTDIC100

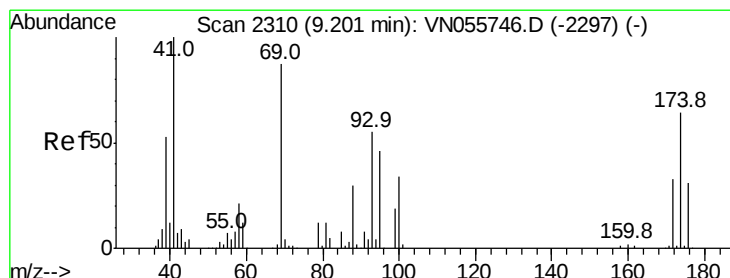
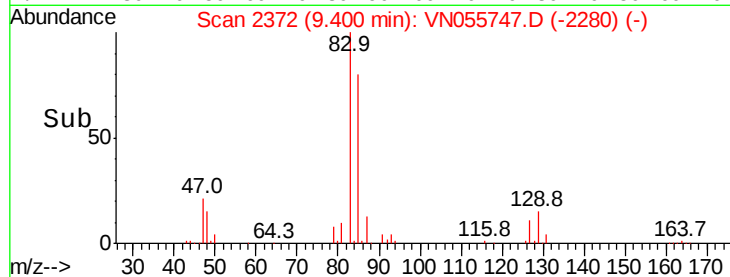
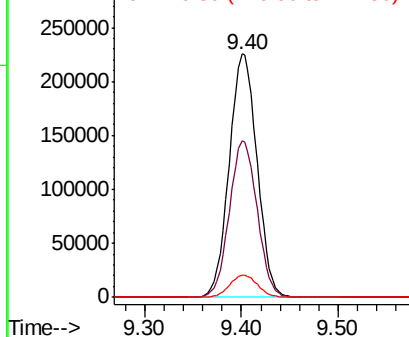
Tot Ion:	83	Resp:	450671
Ion Ratio	Lower	Upper	
83	100		
85	64.5	52.2	78.2
127	9.0	7.4	11.0

Manual Integrations
APPROVED

MMDadoda
5/24/2019 9:22:11 AM



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



#48

Methyl methacrylate

Concen: 106.453 ug/l

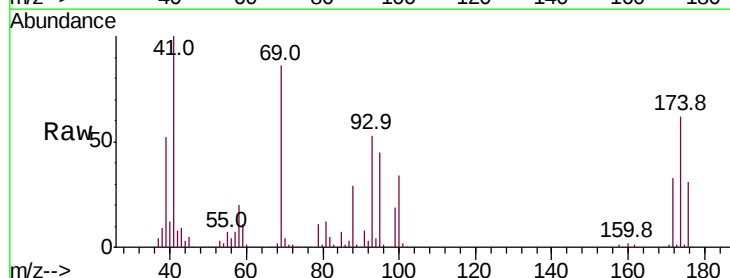
RT: 9.20 min Scan# 2310

Delta R.T. 0.00 min

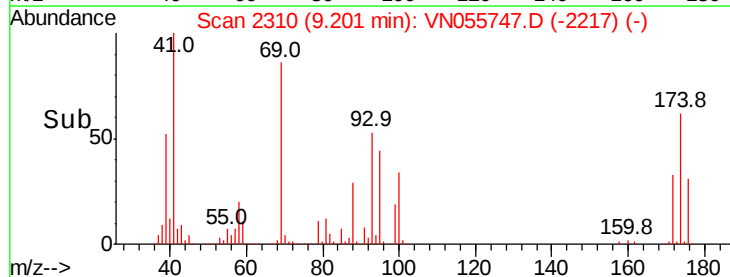
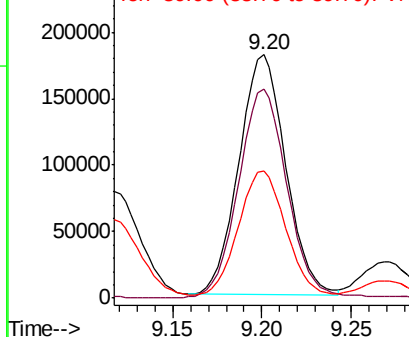
Lab File: VN055747.D

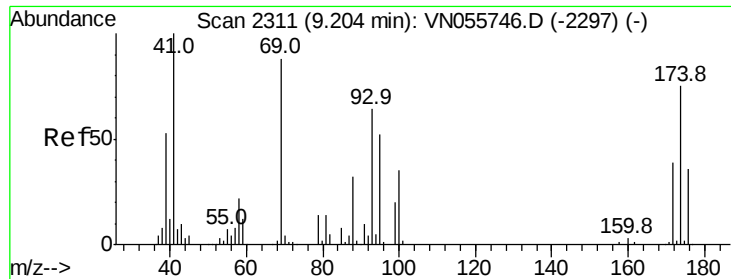
Acq: 23 May 2019 11:00

Tgt Ion:	41	Resp:	332865
Ion Ratio	Lower	Upper	
41	100		
69	90.5	71.0	106.6
39	54.4	44.2	66.2



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





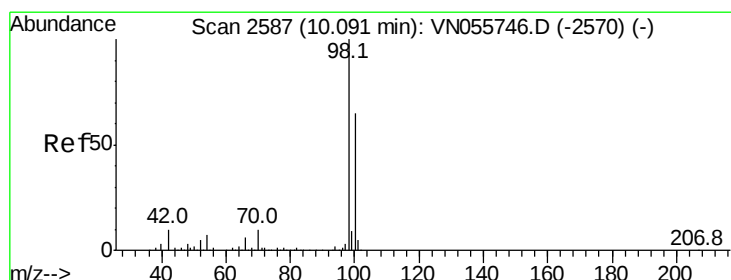
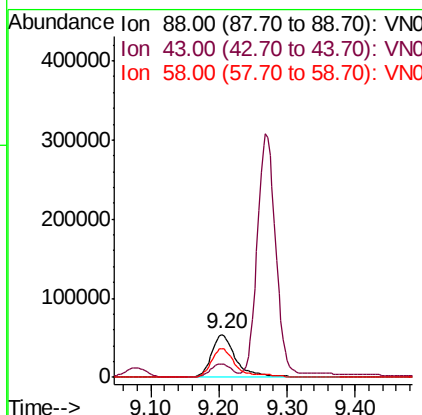
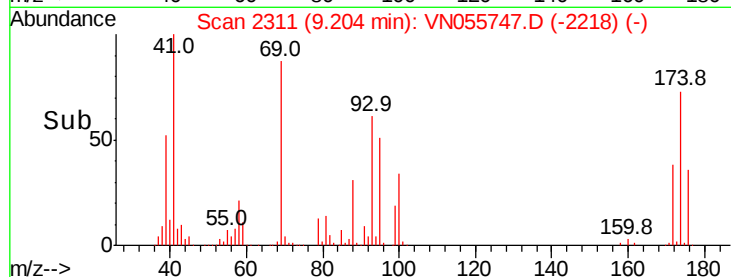
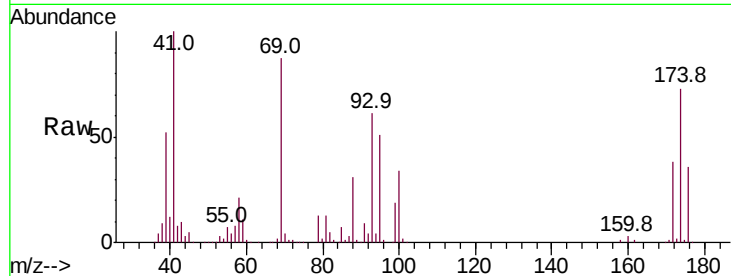
#49
 1,4-Dioxane
 Concen: 2193.477 ug/l
 RT: 9.20 min Scan# 2311
 Delta R.T. 0.00 min
 Lab File: VN055747.D
 Acq: 23 May 2019 11:00

Instrument :
 MSVOA_N
 ClientSampleId :
 VSTDIC100

Tot Ion	Ratio	Lower	Upper
88	100		
43	25.9	20.5	30.7
58	69.1	55.8	83.6

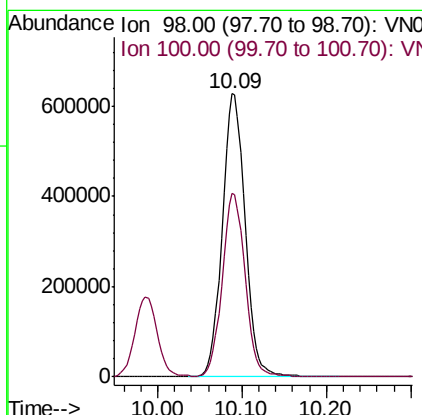
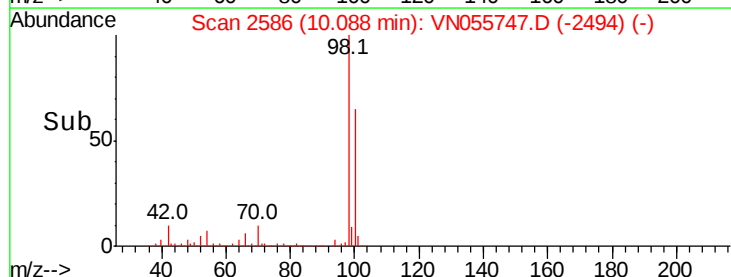
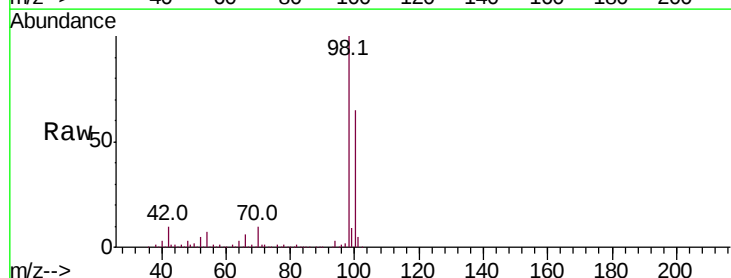
Manual Integrations
 APPROVED

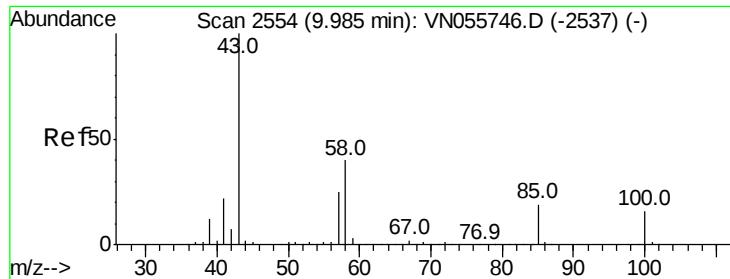
MMDadoda
 5/24/2019 9:22:11 AM



#50
 Toluene-d8
 Concen: 98.603 ug/l
 RT: 10.09 min Scan# 2586
 Delta R.T. -0.00 min
 Lab File: VN055747.D
 Acq: 23 May 2019 11:00

Tgt Ion	Ratio	Lower	Upper
98	100		
100	65.5	51.9	77.9





#51

4-Methyl-2-Pentanone

Concen: 504.511 ug/l

RT: 9.99 min Scan# 2554

Delta R.T. 0.00 min

Lab File: VN055747.D

Acq: 23 May 2019 11:00

Instrument :

MSVOA_N

ClientSampleId :

VSTDIC100

Tot Ion: 43 Resp: 2080570

Ion Ratio Lower Upper

43 100

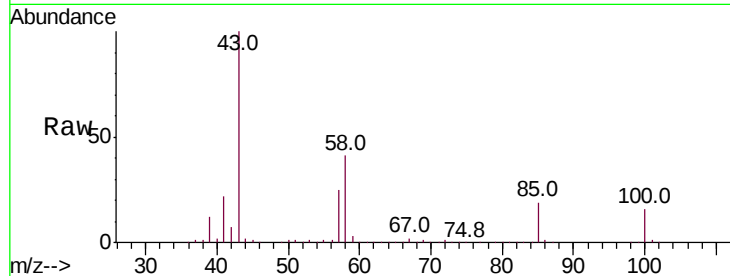
58 40.5 32.1 48.1

Manual Integrations

APPROVED

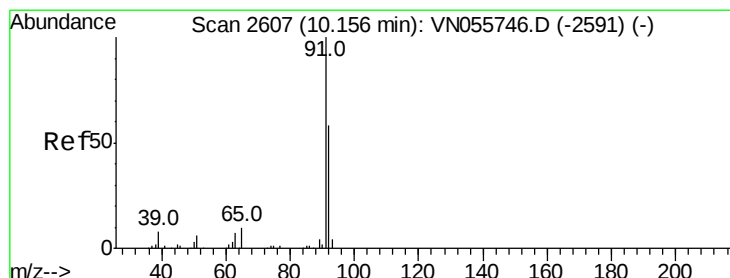
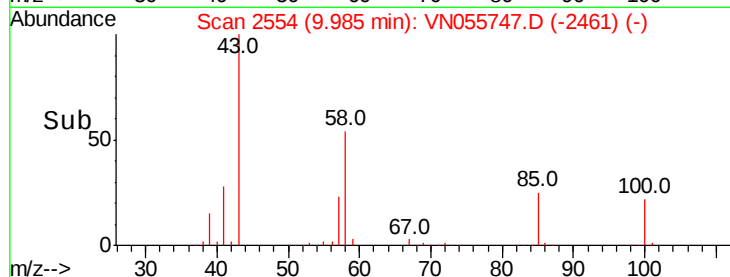
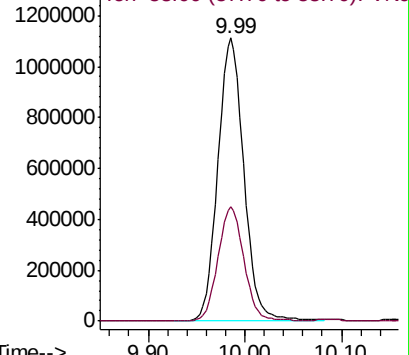
MMDadoda

5/24/2019 9:22:11 AM



Abundance Ion 43.00 (42.70 to 43.70): VN0

Ion 58.00 (57.70 to 58.70): VN0



#52

Toluene

Concen: 99.125 ug/l

RT: 10.16 min Scan# 2607

Delta R.T. 0.00 min

Lab File: VN055747.D

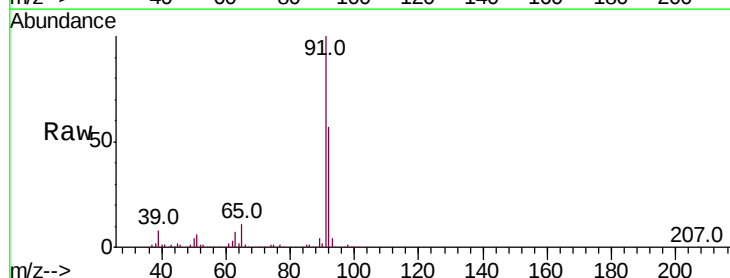
Acq: 23 May 2019 11:00

Tgt Ion: 92 Resp: 815243

Ion Ratio Lower Upper

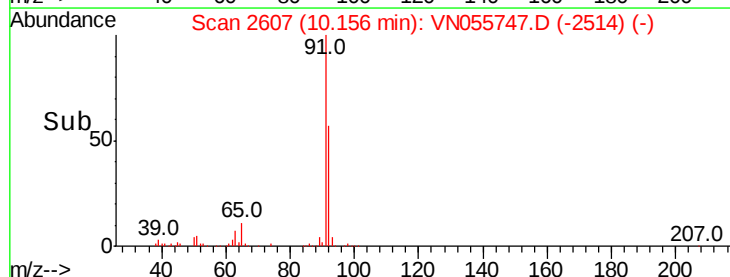
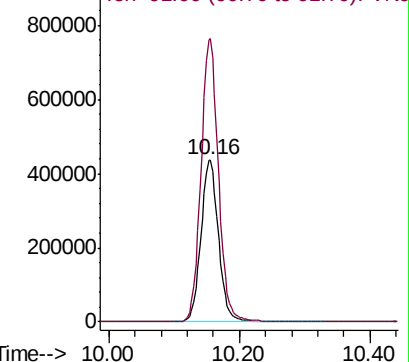
92 100

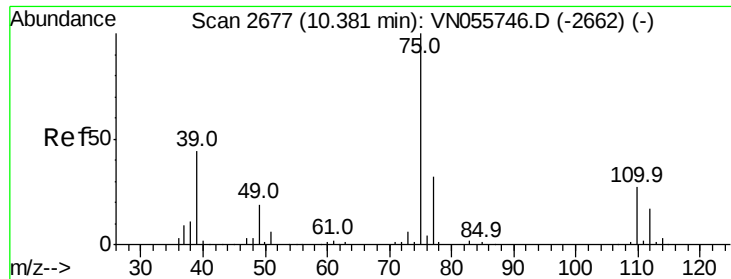
91 174.4 139.4 209.2



Abundance Ion 92.00 (91.70 to 92.70): VN0

Ion 91.00 (90.70 to 91.70): VN0





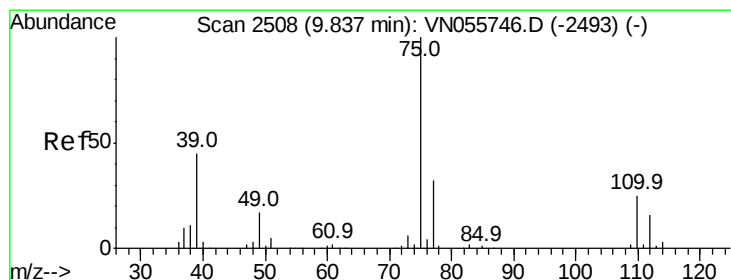
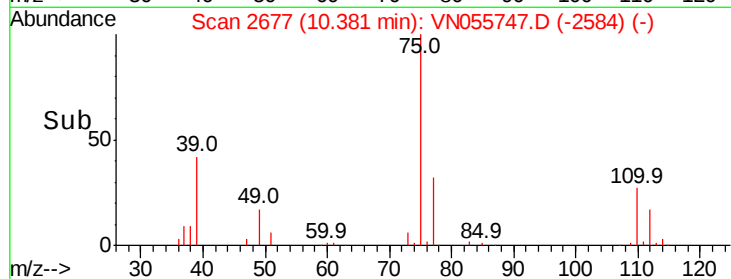
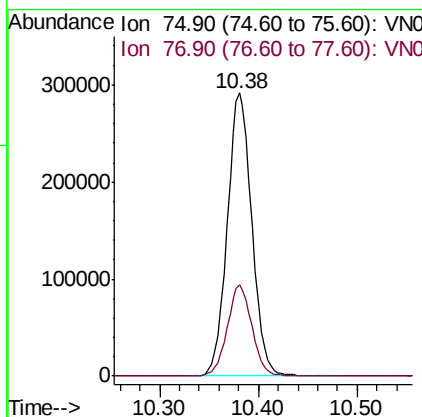
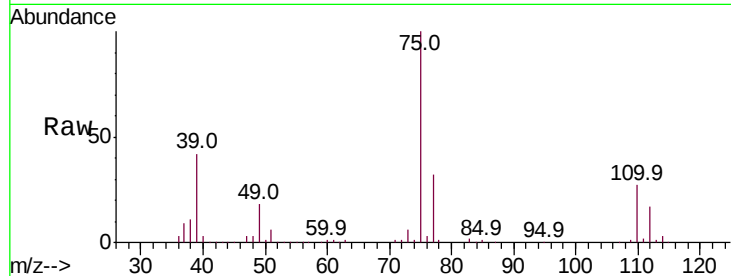
#53
t-1,3-Dichloropropene
Concen: 100.345 ug/l
RT: 10.38 min Scan# 2677
Delta R.T. 0.00 min
Lab File: VN055747.D
Acq: 23 May 2019 11:00

Instrument :
MSVOA_N
ClientSampleId :
VSTDIC100

Tot Ion	Ratio	Resp	Lower	Upper
75	100	507656		
77	31.9	25.8	38.6	

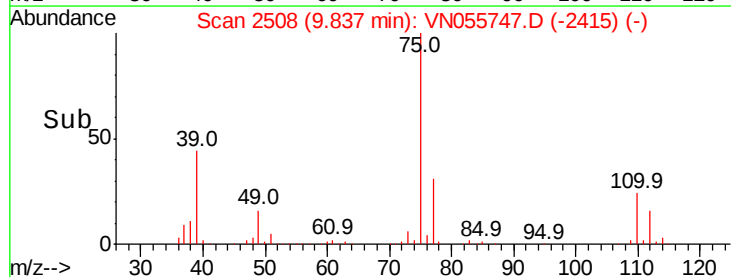
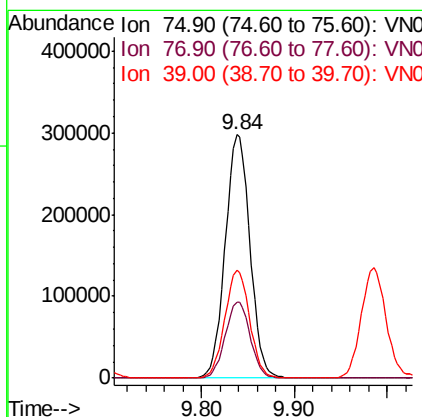
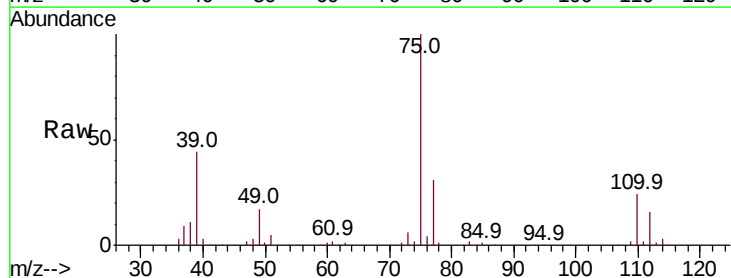
Manual Integrations
APPROVED

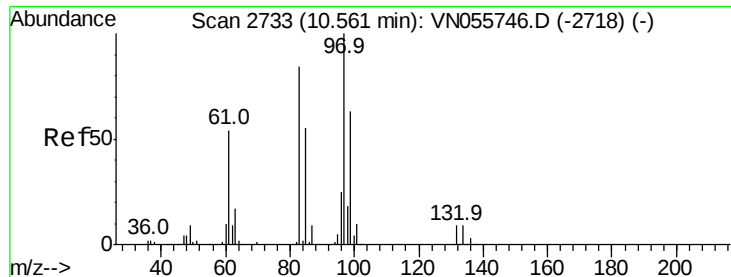
MMDadoda
5/24/2019 9:22:11 AM



#54
cis-1,3-Dichloropropene
Concen: 99.253 ug/l
RT: 9.84 min Scan# 2508
Delta R.T. 0.00 min
Lab File: VN055747.D
Acq: 23 May 2019 11:00

Tgt Ion	Ratio	Resp	Lower	Upper
75	100	550319		
77	31.4	25.4	38.0	
39	44.3	36.3	54.5	





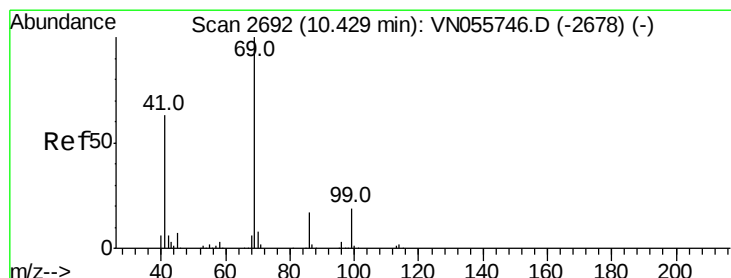
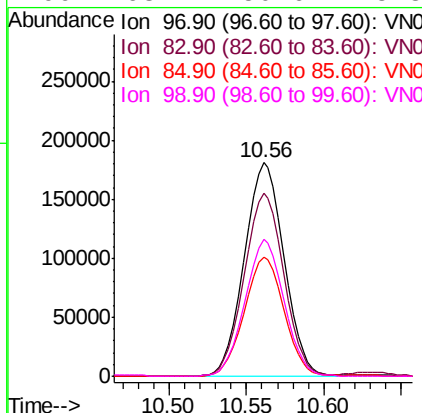
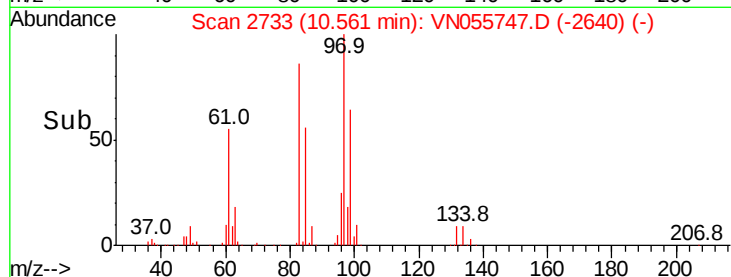
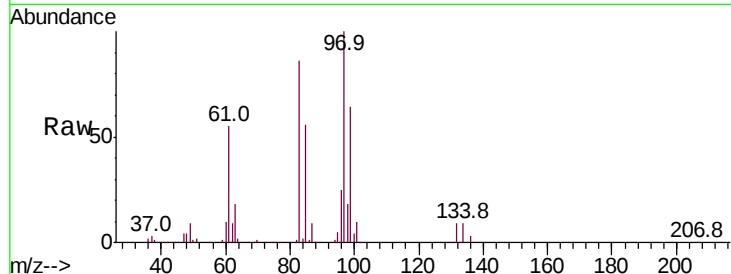
#55
 1,1,2-Trichloroethane
 Concen: 96.025 ug/l
 RT: 10.56 min Scan# 2733
 Delta R.T. 0.00 min
 Lab File: VN055747.D
 Acq: 23 May 2019 11:00

Instrument :
 MSVOA_N
 ClientSampleId :
 VSTDIC100

Tot Ion:	97	Resp:	324769
Ion	Ratio	Lower	Upper
97	100		
83	85.6	67.0	100.6
85	55.9	44.0	66.0
99	63.7	50.6	75.8

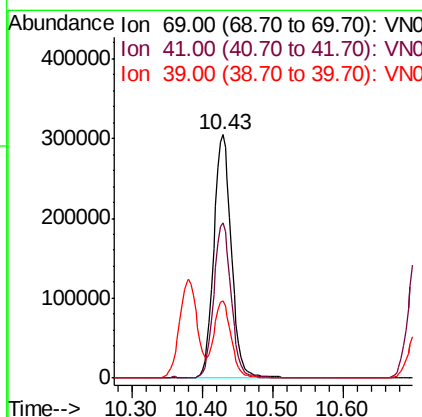
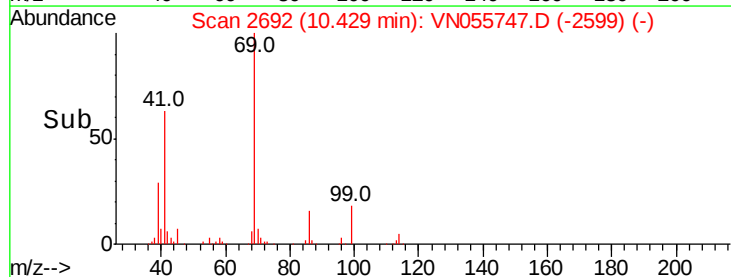
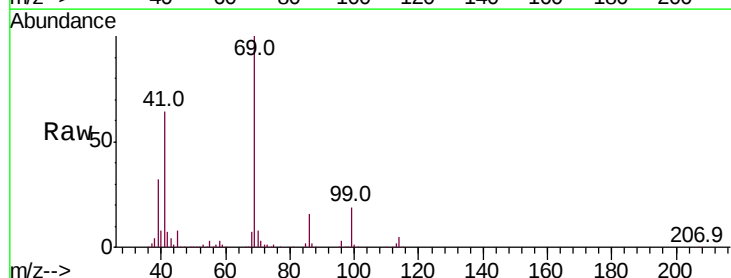
Manual Integrations
 APPROVED

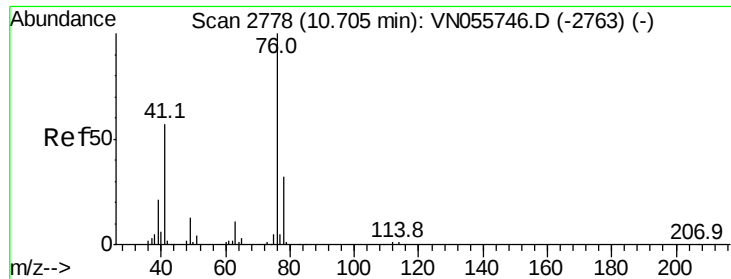
MMDadoda
 5/24/2019 9:22:11 AM



#56
 Ethyl methacrylate
 Concen: 99.403 ug/l
 RT: 10.43 min Scan# 2692
 Delta R.T. 0.00 min
 Lab File: VN055747.D
 Acq: 23 May 2019 11:00

Tgt Ion:	69	Resp:	525078
Ion	Ratio	Lower	Upper
69	100		
41	62.7	49.7	74.5
39	31.0	24.7	37.1





#57

1,3-Dichloropropane

Concen: 99.727 ug/l

RT: 10.71 min Scan# 2778

Delta R.T. 0.00 min

Lab File: VN055747.D

Acq: 23 May 2019 11:00

Instrument :

MSVOA_N

ClientSampleId :

VSTDIC100

Tot Ion: 76 Resp: 533306

Ion Ratio Lower Upper

76 100

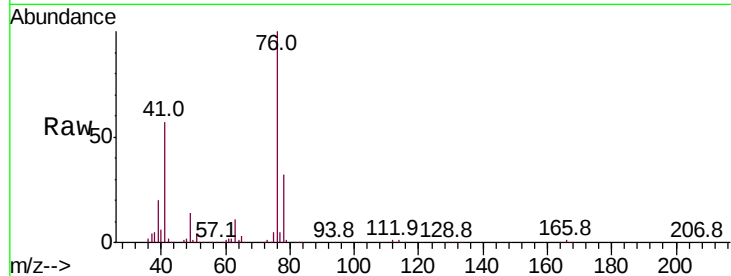
78 32.1 25.8 38.6

Manual Integrations

APPROVED

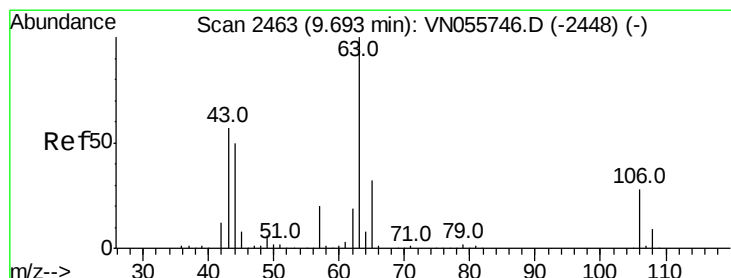
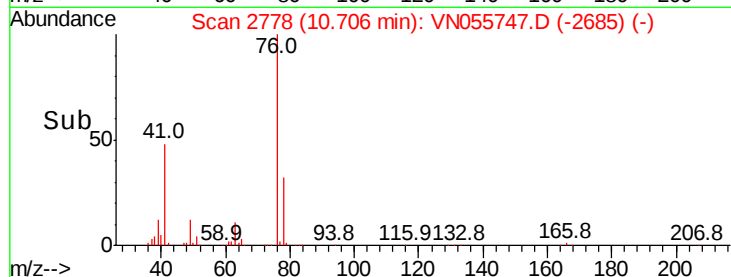
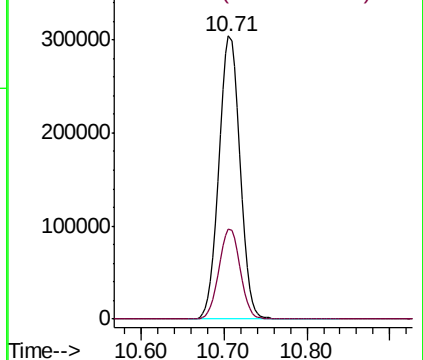
MMDadoda

5/24/2019 9:22:11 AM



Abundance Ion 75.90 (75.60 to 76.60): VN0

Ion 77.90 (77.60 to 78.60): VN0



#58

2-Chloroethyl Vinyl ether

Concen: 468.017 ug/l

RT: 9.70 min Scan# 2464

Delta R.T. 0.00 min

Lab File: VN055747.D

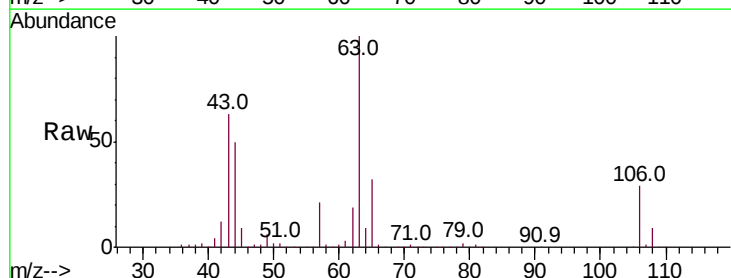
Acq: 23 May 2019 11:00

Tgt Ion: 63 Resp: 1026546

Ion Ratio Lower Upper

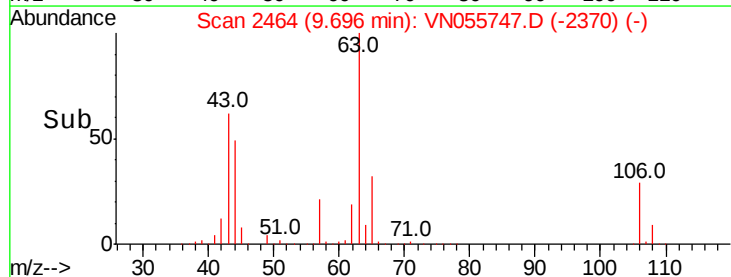
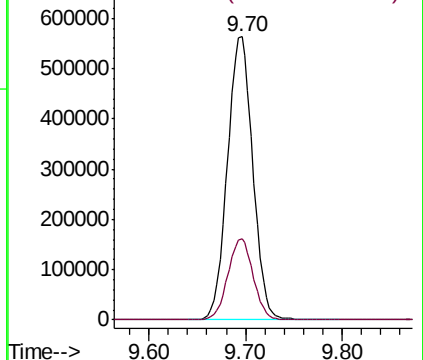
63 100

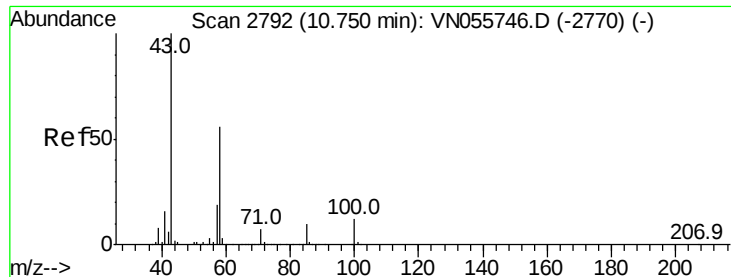
106 28.4 22.7 34.1



Abundance Ion 62.90 (62.60 to 63.60): VN0

Ion 105.90 (105.60 to 106.60): V





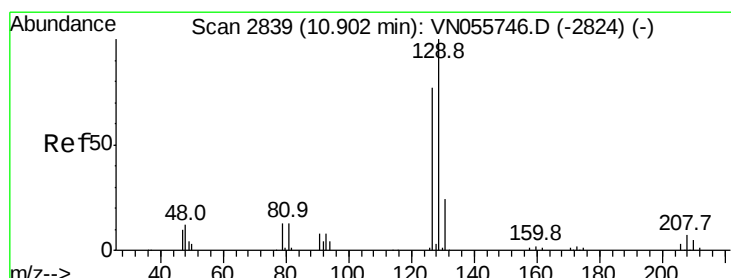
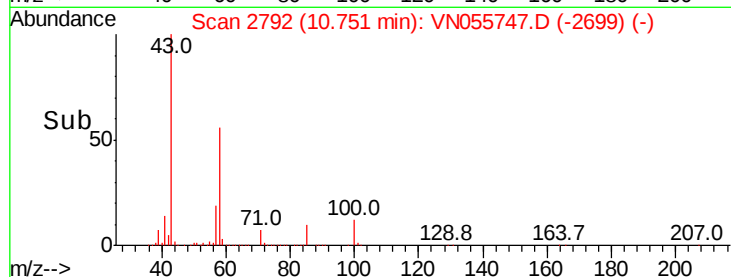
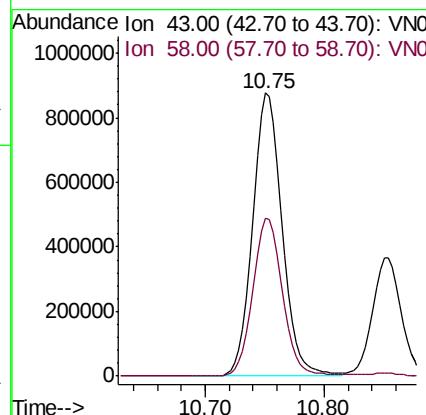
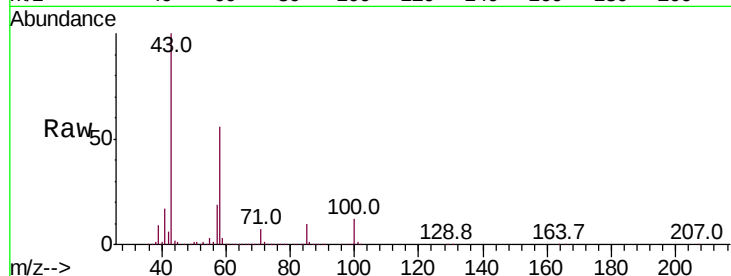
#59
2-Hexanone
Concen: 519.272 ug/l
RT: 10.75 min Scan# 2792
Delta R.T. 0.00 min
Lab File: VN055747.D
Acq: 23 May 2019 11:00

Instrument :
MSVOA_N
ClientSampleId :
VSTDIC100

Tot Ion: 43 Resp: 1504964
Ion Ratio Lower Upper
43 100
58 56.4 28.2 84.7

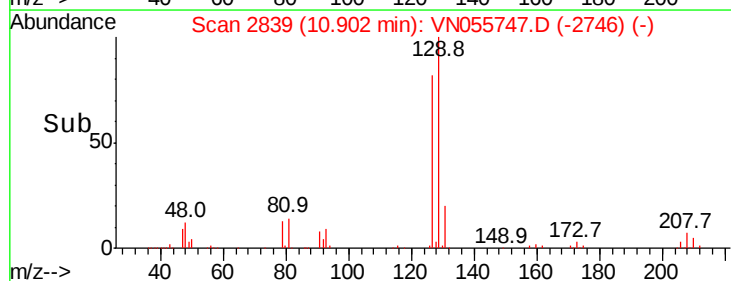
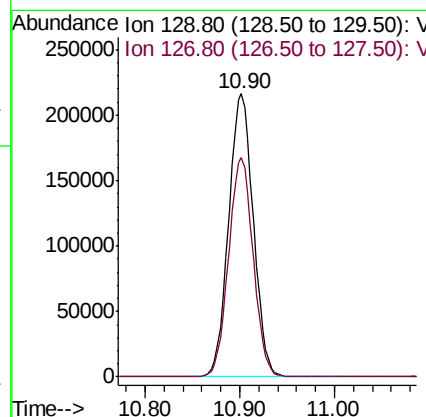
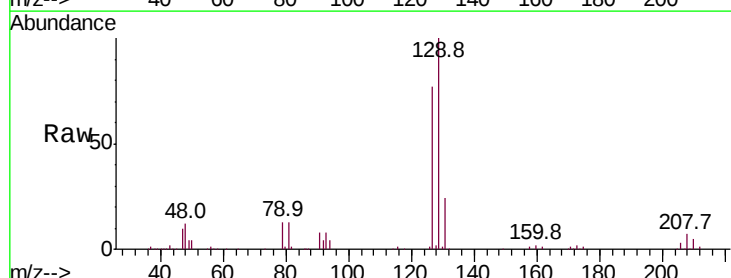
Manual Integrations
APPROVED

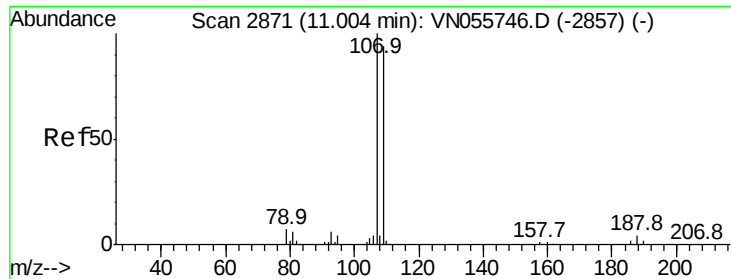
MMDadoda
5/24/2019 9:22:11 AM



#60
Dibromochloromethane
Concen: 102.247 ug/l
RT: 10.90 min Scan# 2839
Delta R.T. 0.00 min
Lab File: VN055747.D
Acq: 23 May 2019 11:00

Tgt Ion: 129 Resp: 392001
Ion Ratio Lower Upper
129 100
127 77.0 38.1 114.3





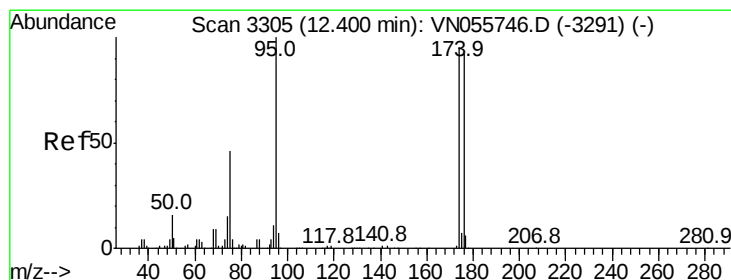
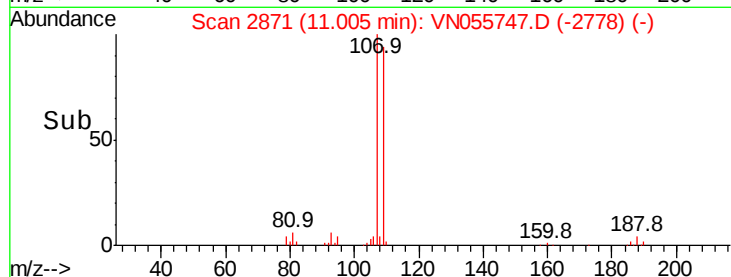
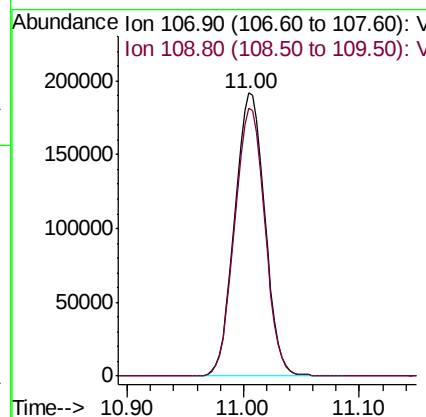
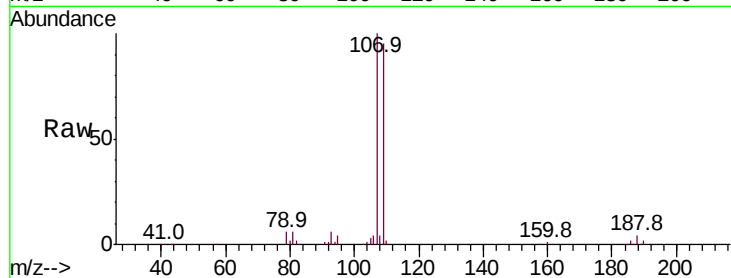
#61
 1,2-Dibromoethane
 Concen: 101.842 ug/l
 RT: 11.00 min Scan# 2871
 Delta R.T. 0.00 min
 Lab File: VN055747.D
 Acq: 23 May 2019 11:00

Instrument :
 MSVOA_N
 ClientSampleId :
 VSTDIC100

Tot Ion	Ratio	Lower	Upper
107	100		
109	94.8	74.8	112.2

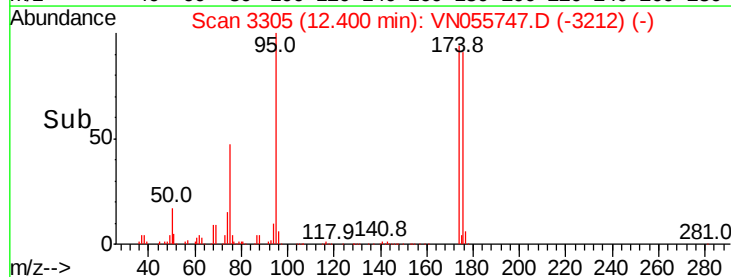
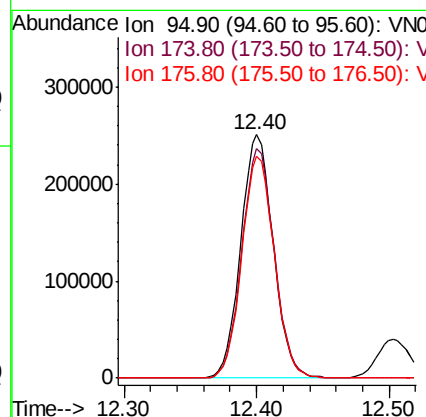
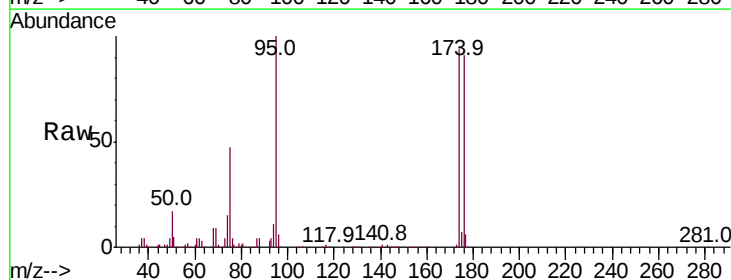
Manual Integrations
 APPROVED

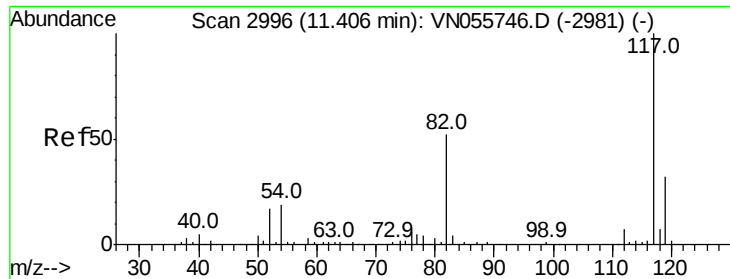
MMDadoda
 5/24/2019 9:22:11 AM



#62
 4-Bromofluorobenzene
 Concen: 102.933 ug/l
 RT: 12.40 min Scan# 3305
 Delta R.T. 0.00 min
 Lab File: VN055747.D
 Acq: 23 May 2019 11:00

Tgt Ion	Ratio	Lower	Upper
95	100		
174	94.3	0.0	191.0
176	91.3	0.0	185.2





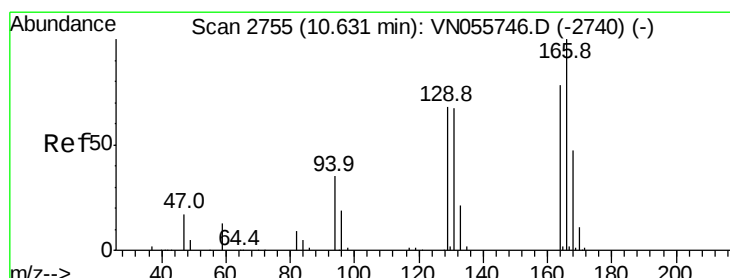
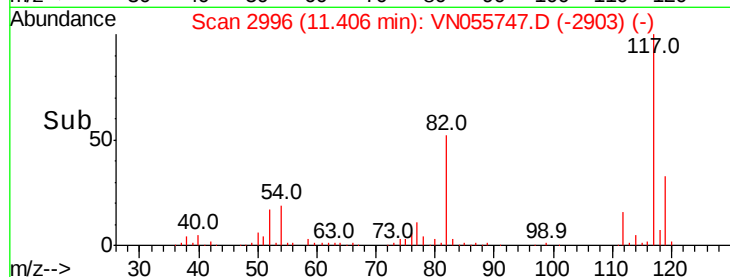
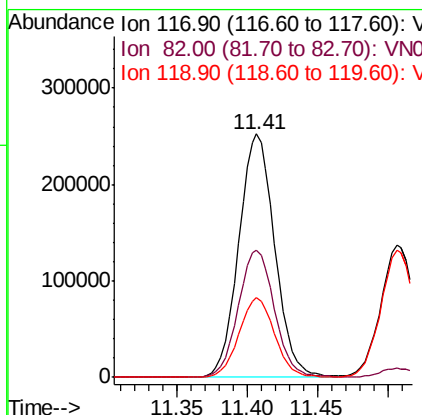
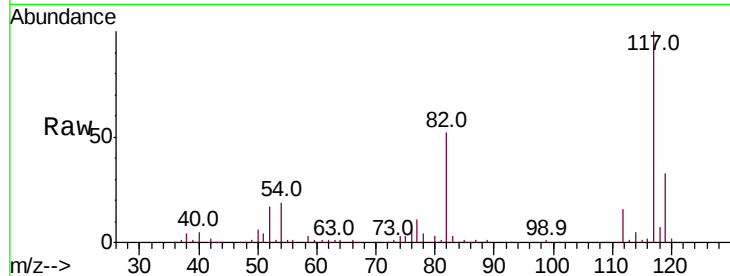
#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.41 min Scan# 2996
Delta R.T. 0.00 min
Lab File: VN055747.D
Acq: 23 May 2019 11:00

Instrument :
MSVOA_N
ClientSampleId :
VSTDIC100

Tot Ion	Ratio	Lower	Upper
117	100		
82	52.5	41.8	62.8
119	32.5	25.4	38.0

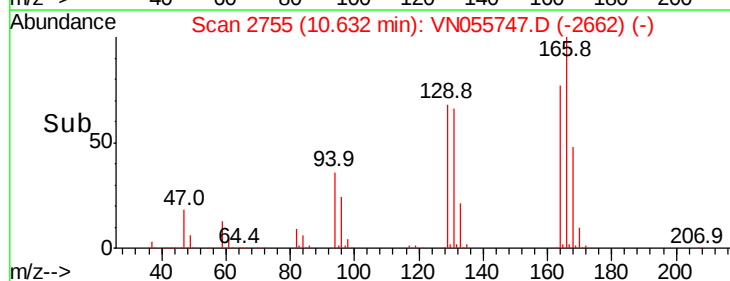
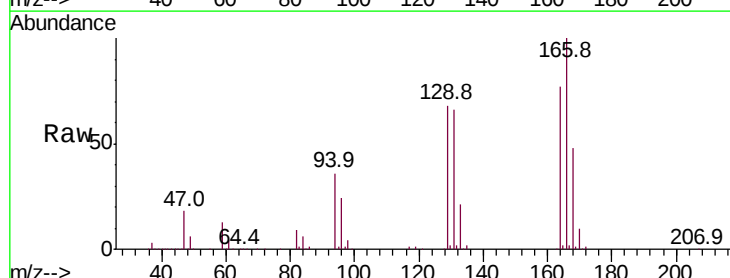
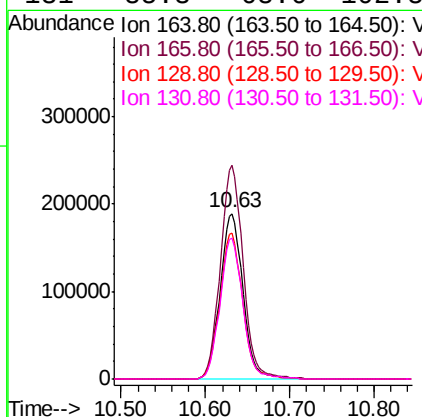
Manual Integrations
APPROVED

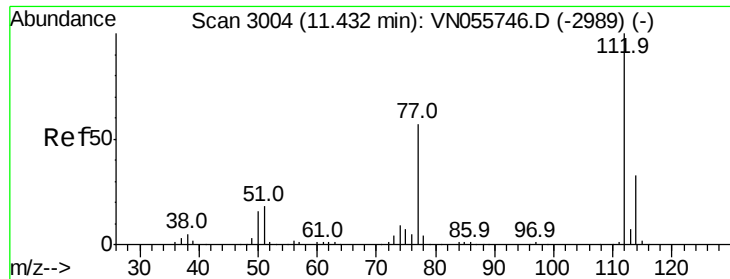
MMDadoda
5/24/2019 9:22:11 AM



#64
Tetrachloroethene
Concen: 98.984 ug/l
RT: 10.63 min Scan# 2755
Delta R.T. 0.00 min
Lab File: VN055747.D
Acq: 23 May 2019 11:00

Tgt Ion	Ratio	Lower	Upper
164	100		
166	129.2	103.0	154.6
129	88.0	70.6	105.8
131	85.3	68.6	102.8





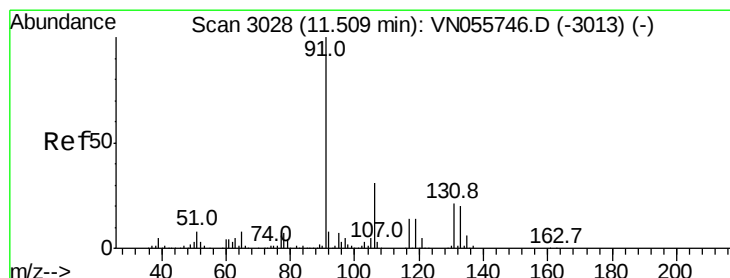
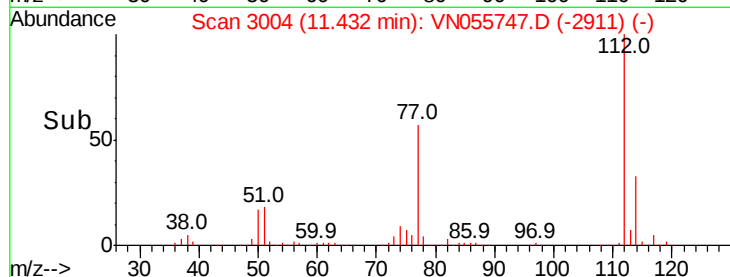
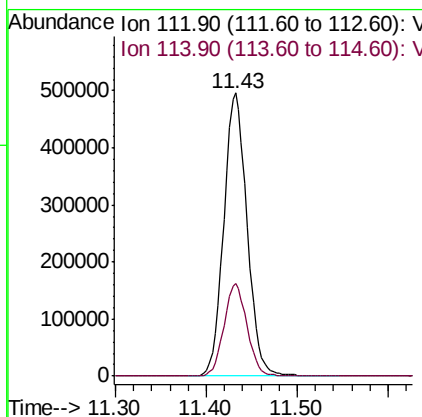
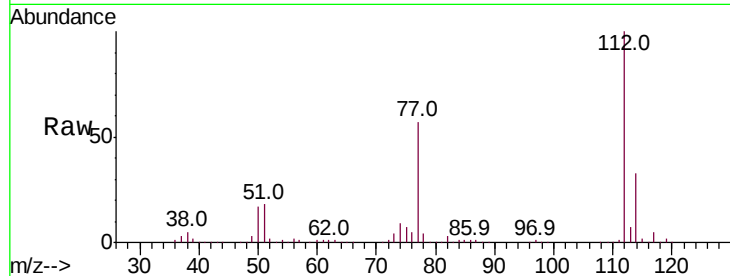
#65
Chlorobenzene
Concen: 96.683 ug/l
RT: 11.43 min Scan# 3004
Delta R.T. 0.00 min
Lab File: VN055747.D
Acq: 23 May 2019 11:00

Instrument :
MSVOA_N
ClientSampled :
VSTDIC100

Tot Ion:112 Resp: 882184
Ion Ratio Lower Upper
112 100
114 32.6 26.2 39.4

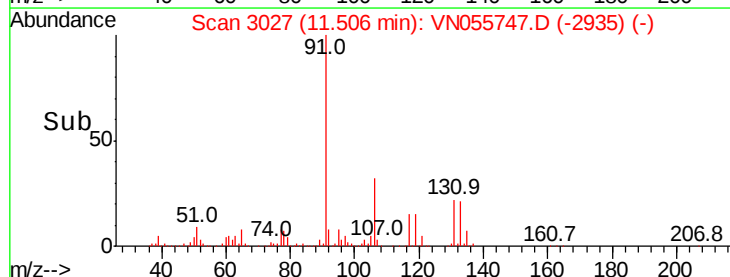
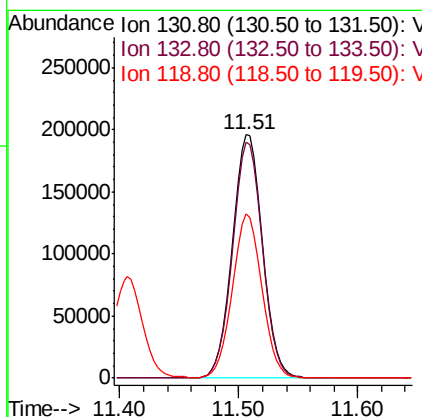
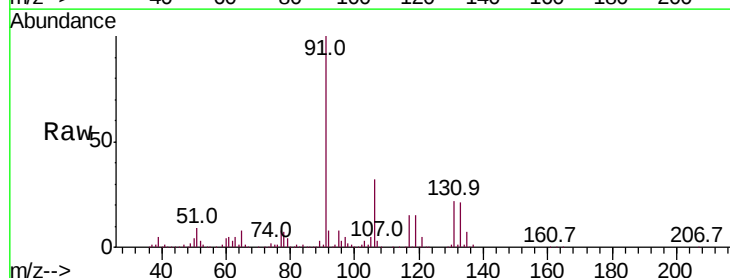
Manual Integrations
APPROVED

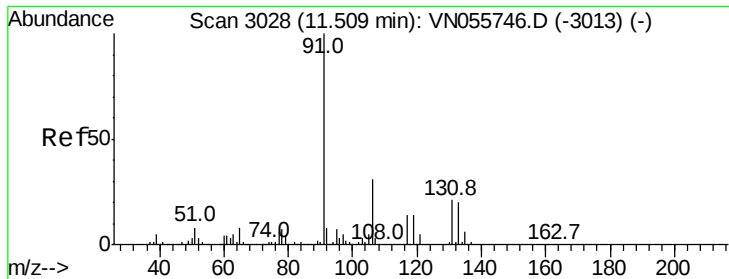
MMDadoda
5/24/2019 9:22:11 AM



#66
1,1,1,2-Tetrachloroethane
Concen: 93.805 ug/l
RT: 11.51 min Scan# 3027
Delta R.T. -0.00 min
Lab File: VN055747.D
Acq: 23 May 2019 11:00

Tgt Ion:131 Resp: 343939
Ion Ratio Lower Upper
131 100
133 96.2 48.0 144.0
119 66.2 33.1 99.5





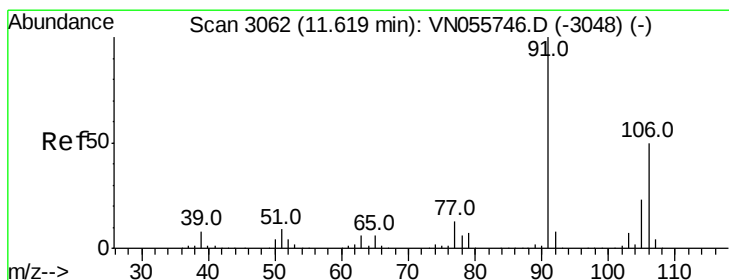
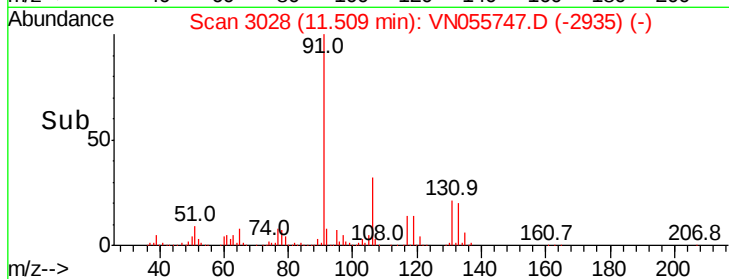
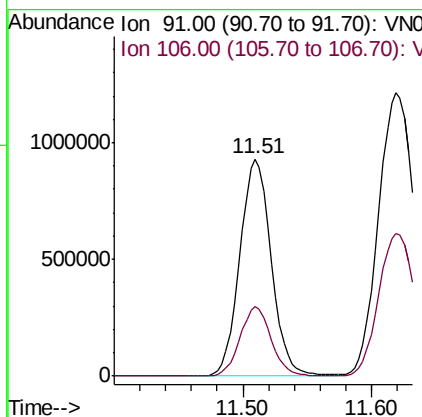
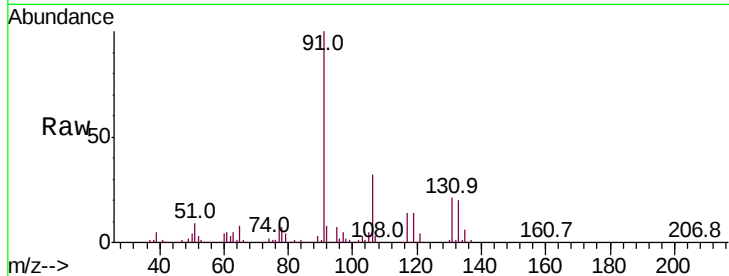
#67
Ethyl Benzene
Concen: 96.758 ug/l
RT: 11.51 min Scan# 3028
Delta R.T. 0.00 min
Lab File: VN055747.D
Acq: 23 May 2019 11:00

Instrument :
MSVOA_N
ClientSampled :
VSTDIC100

Tot Ion: 91 Resp: 1576662
Ion Ratio Lower Upper
91 100
106 31.8 25.1 37.7

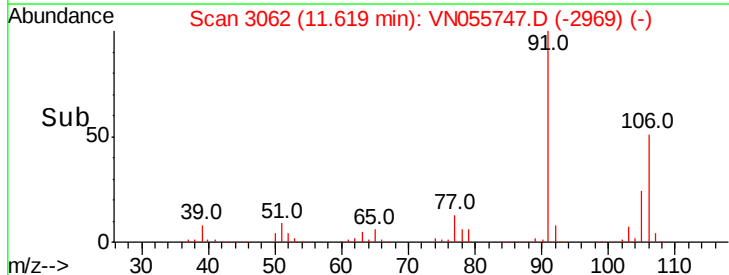
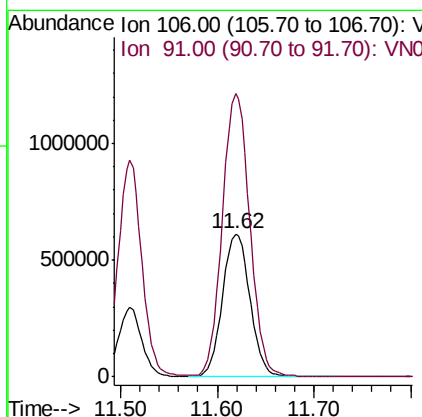
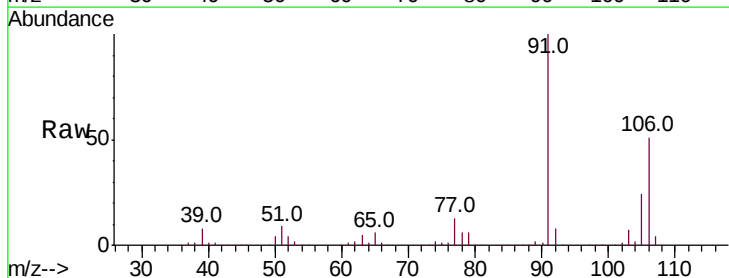
Manual Integrations
APPROVED

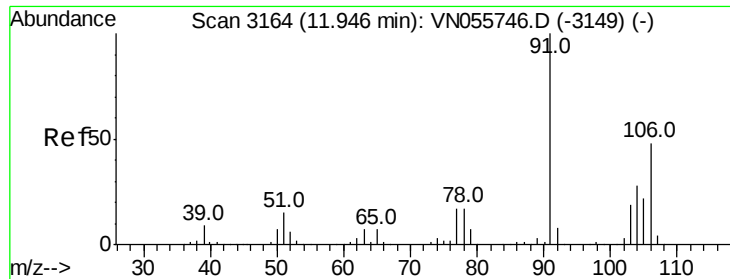
MMDadoda
5/24/2019 9:22:11 AM



#68
m/p-Xylenes
Concen: 197.172 ug/l
RT: 11.62 min Scan# 3062
Delta R.T. 0.00 min
Lab File: VN055747.D
Acq: 23 May 2019 11:00

Tgt Ion: 106 Resp: 1213479
Ion Ratio Lower Upper
106 100
91 197.7 159.3 238.9





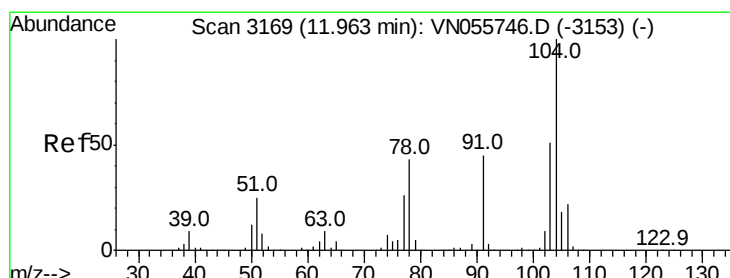
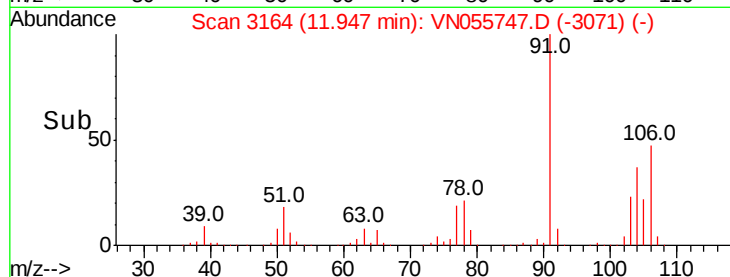
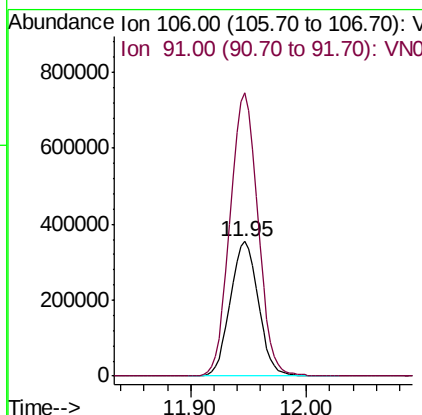
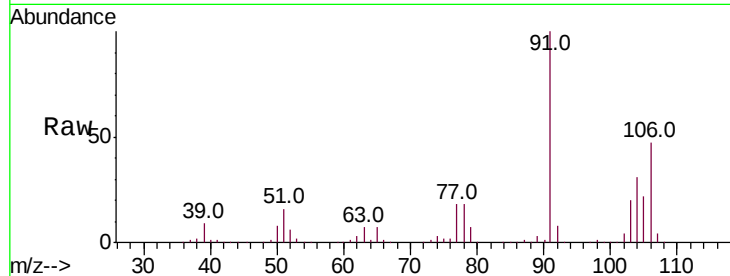
#69
o-Xylene
Concen: 98.179 ug/l
RT: 11.95 min Scan# 3164
Delta R.T. 0.00 min
Lab File: VN055747.D
Acq: 23 May 2019 11:00

Instrument :
MSVOA_N
ClientSampled :
VSTDIC100

Tot Ion:106 Resp: 592820
Ion Ratio Lower Upper
106 100
91 208.9 104.7 314.1

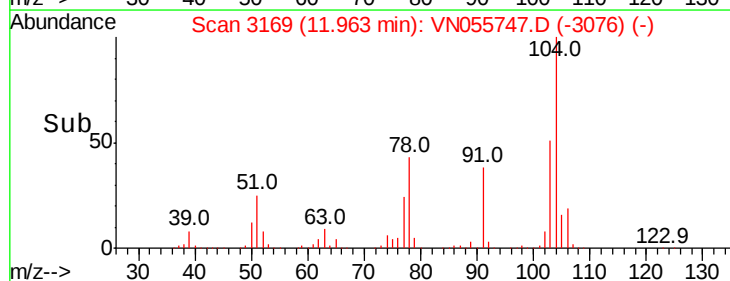
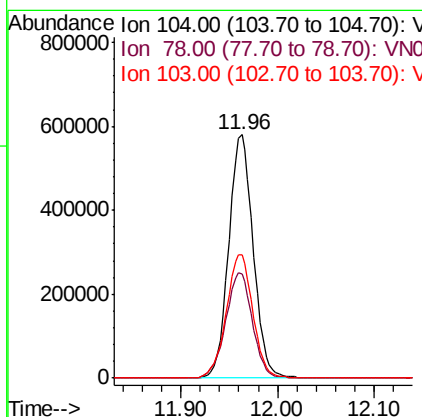
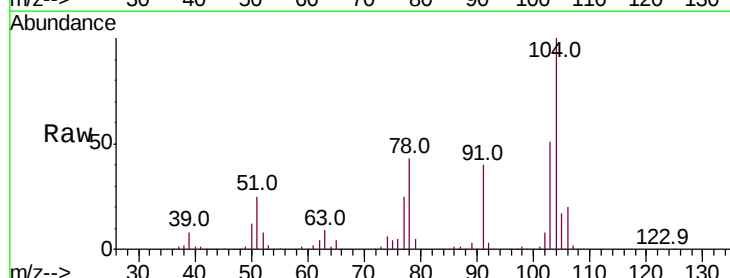
Manual Integrations
APPROVED

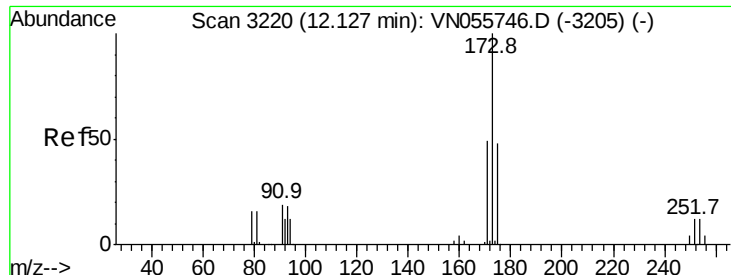
MMDadoda
5/24/2019 9:22:11 AM



#70
Styrene
Concen: 101.606 ug/l
RT: 11.96 min Scan# 3169
Delta R.T. 0.00 min
Lab File: VN055747.D
Acq: 23 May 2019 11:00

Tgt Ion:104 Resp: 1017328
Ion Ratio Lower Upper
104 100
78 47.4 37.8 56.6
103 54.9 44.2 66.2





#71

Bromoform

Concen: 101.626 ug/l

RT: 12.13 min Scan# 3220

Delta R.T. 0.00 min

Lab File: VN055747.D

Acq: 23 May 2019 11:00

Instrument :

MSVOA_N

ClientSampleId :

VSTDIC100

Tot Ion:173 Resp: 316562

Ion Ratio Lower Upper

173 100

175 48.7 24.3 72.8

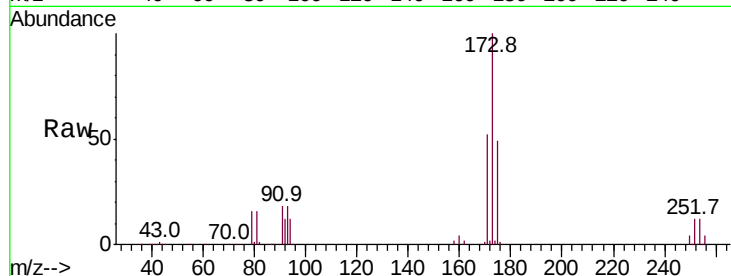
254 0.1 0.0 0.0#

Manual Integrations

APPROVED

MMDadoda

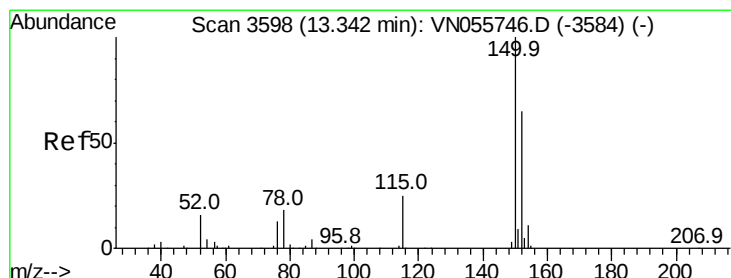
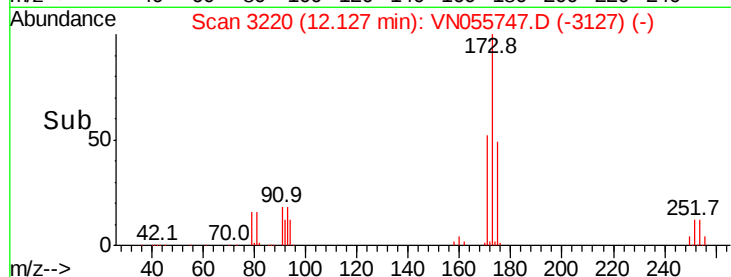
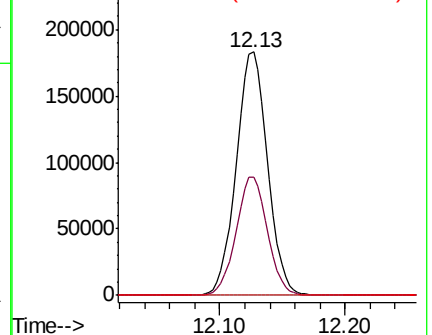
5/24/2019 9:22:11 AM



Abundance Ion 172.70 (172.40 to 173.40): V

250000 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: VN055747.D

Acq: 23 May 2019 11:00

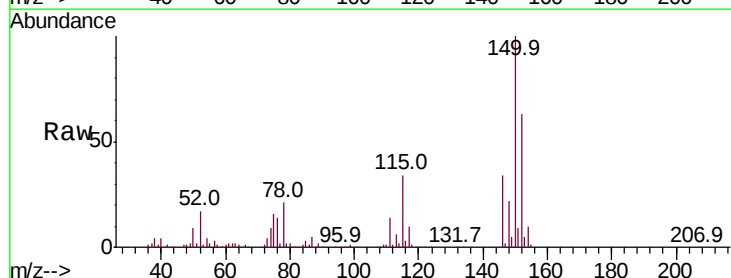
Tgt Ion:152 Resp: 223287

Ion Ratio Lower Upper

152 100

115 53.8 27.0 81.0

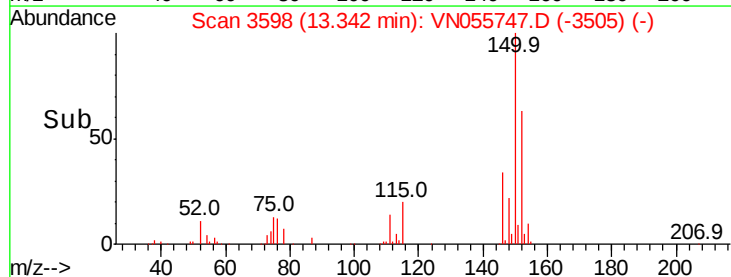
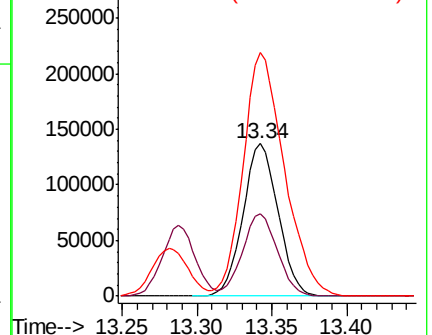
150 187.5 0.0 343.2

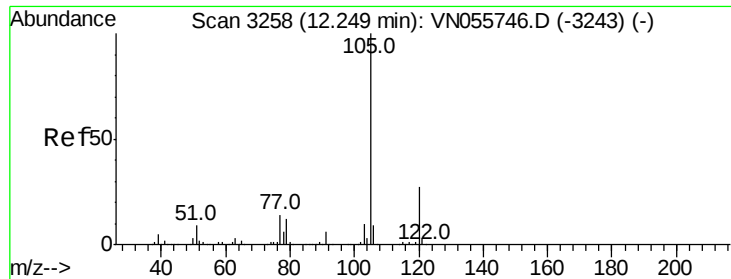


Abundance Ion 151.90 (151.60 to 152.60): V

Ion 114.90 (114.60 to 115.60): V

Ion 149.90 (149.60 to 150.60): V





#73

Isopropylbenzene

Concen: 84.426 ug/l

RT: 12.25 min Scan# 3258

Delta R.T. 0.00 min

Lab File: VN055747.D

Acq: 23 May 2019 11:00

Instrument :

MSVOA_N

ClientSampleId :

VSTDIC100

Tot Ion:105 Resp: 1540327

Ion Ratio Lower Upper

105 100

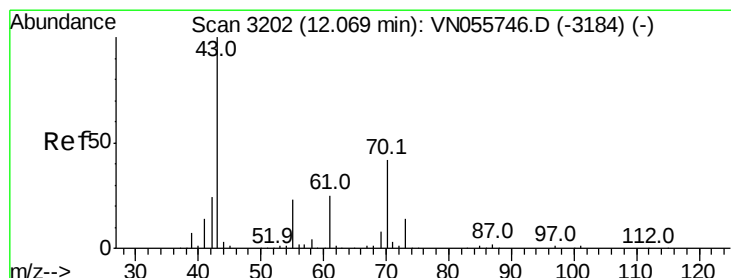
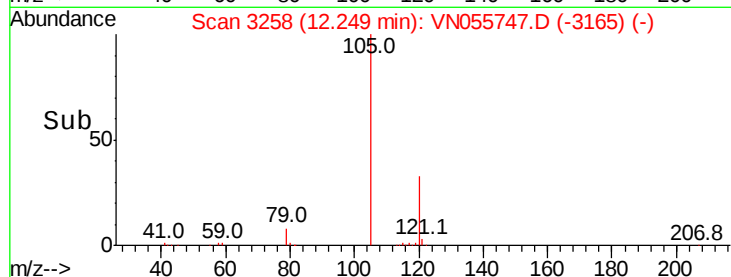
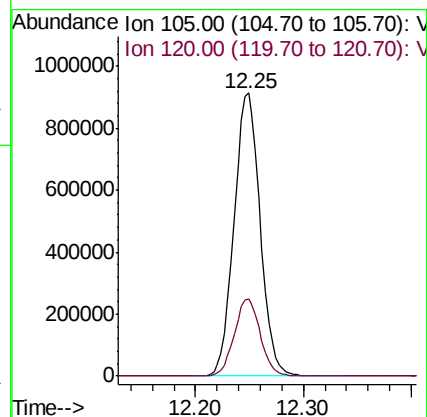
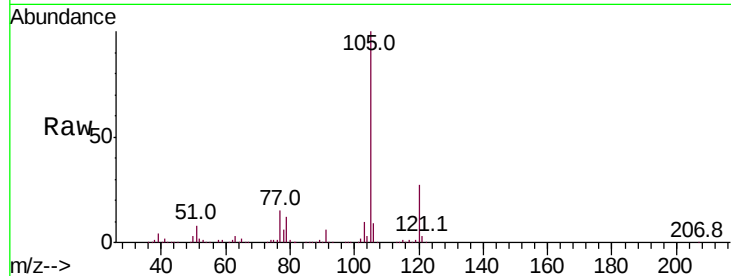
120 27.2 13.6 40.7

Manual Integrations

APPROVED

MMDadoda

5/24/2019 9:22:11 AM



#74

N-ethyl acetate

Concen: 95.152 ug/l

RT: 12.07 min Scan# 3202

Delta R.T. 0.00 min

Lab File: VN055747.D

Acq: 23 May 2019 11:00

Tgt Ion: 43 Resp: 597573

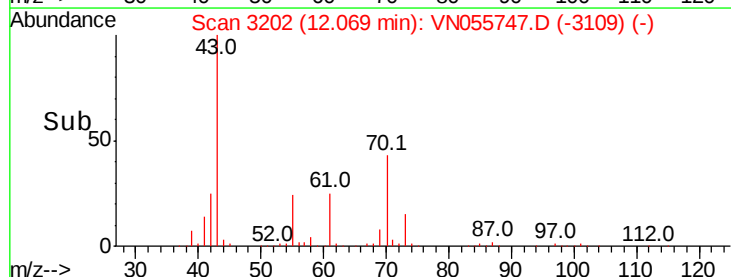
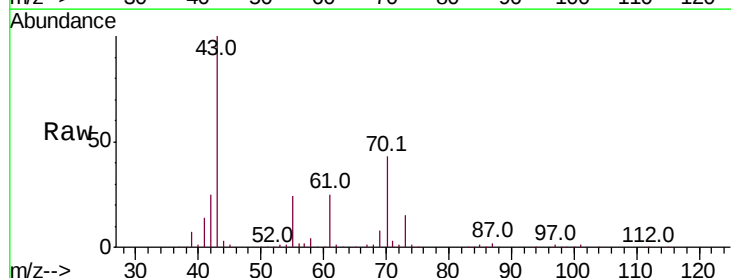
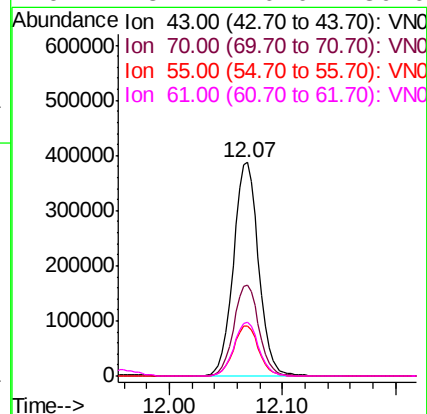
Ion Ratio Lower Upper

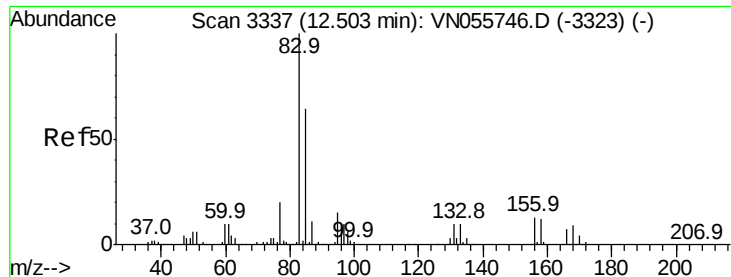
43 100

70 42.9 34.0 51.0

55 23.7 18.6 28.0

61 25.1 20.0 30.0





#75

1,1,2,2-Tetrachloroethane

Concen: 82.045 ug/l

RT: 12.50 min Scan# 3337

Delta R.T. 0.00 min

Lab File: VN055747.D

Acq: 23 May 2019 11:00

Instrument :

MSVOA_N

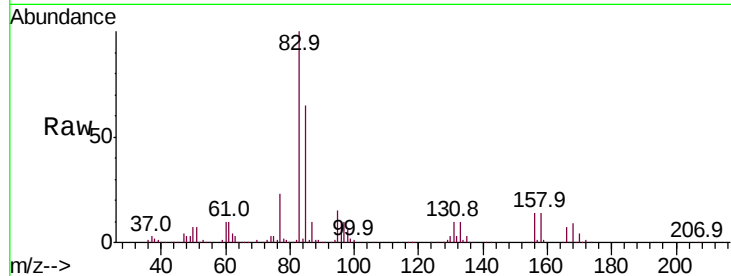
ClientSampleId :

VSTDIC100

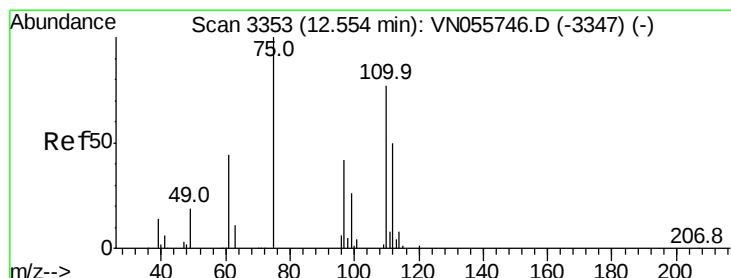
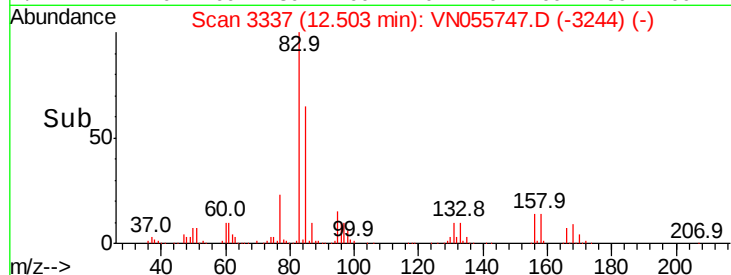
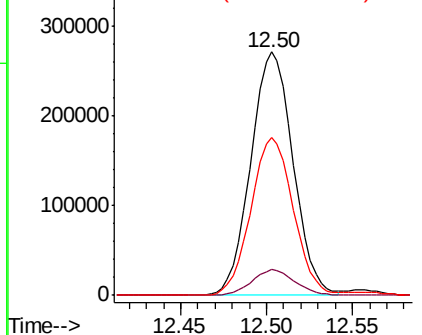
Tot Ion:	83	Resp:	460899
Ion Ratio	Lower	Upper	
83	100		
131	10.8	5.4	16.2
85	65.0	32.4	97.0

Manual Integrations
APPROVED

MMDadoda
5/24/2019 9:22:11 AM



Abundance Ion 82.90 (82.60 to 83.60): VN055747.D (-3244) (-)



#76

1,2,3-Trichloropropane

Concen: 81.367 ug/l m

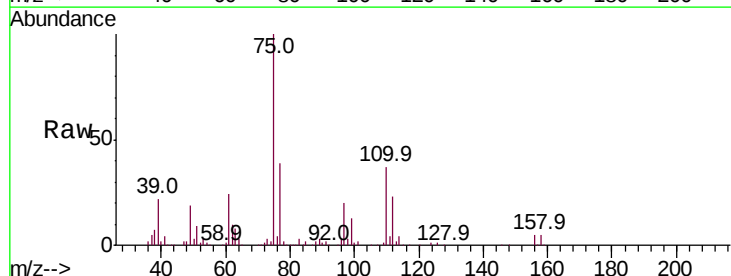
RT: 12.55 min Scan# 3353

Delta R.T. 0.00 min

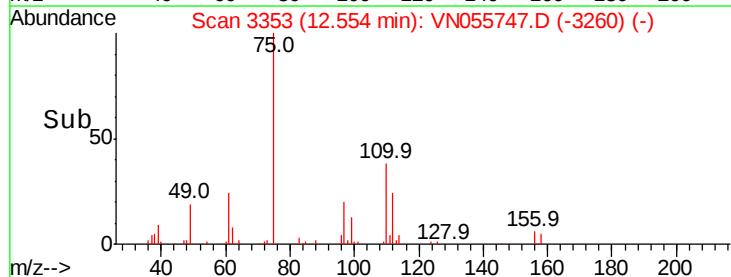
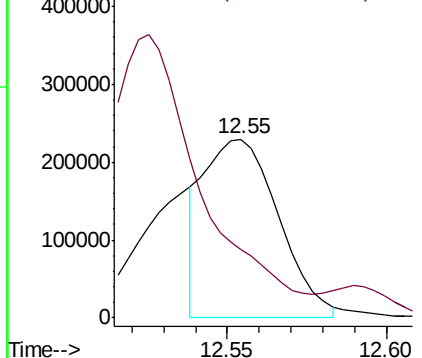
Lab File: VN055747.D

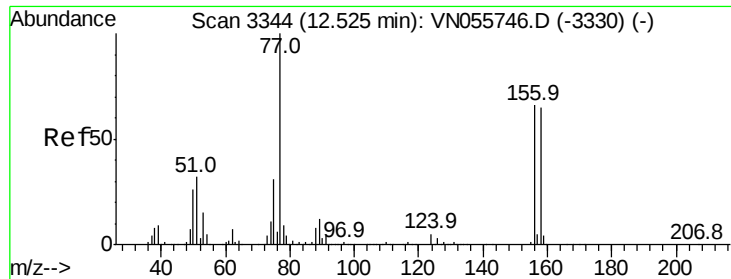
Acq: 23 May 2019 11:00

Tgt Ion:	75	Resp:	374439
Ion Ratio	Lower	Upper	
75	100		
77	0.0	0.0	0.0



Abundance Ion 74.90 (74.60 to 75.60): VN055747.D (-3260) (-)





#77

Bromobenzene

Concen: 92.047 ug/l

RT: 12.53 min Scan# 3344

Delta R.T. 0.00 min

Lab File: VN055747.D

Acq: 23 May 2019 11:00

Instrument :

MSVOA_N

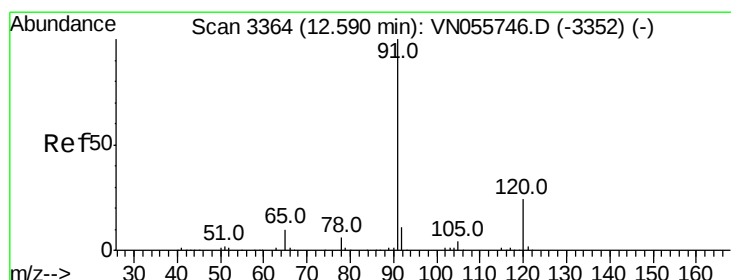
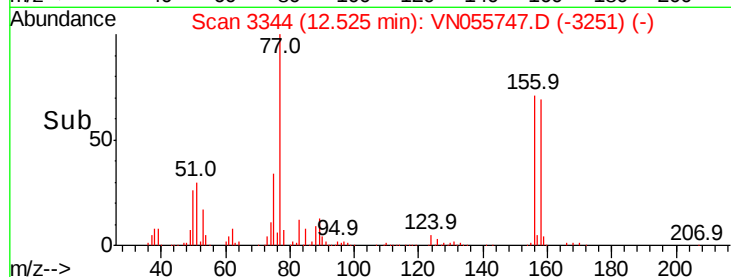
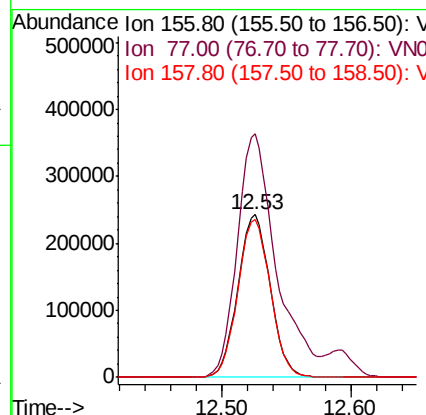
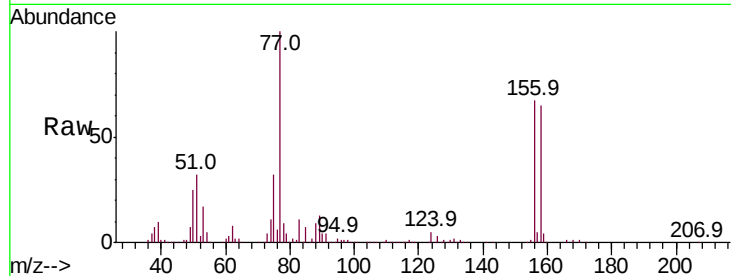
ClientSampleId :

VSTDIC100

Tot Ion:	156	Resp:	424927
Ion Ratio	Lower	Upper	
156	100		
77	180.4	90.8	272.5
158	97.7	49.3	147.8

Manual Integrations
APPROVED

MMDadoda
5/24/2019 9:22:11 AM



#78

n-propylbenzene

Concen: 87.163 ug/l

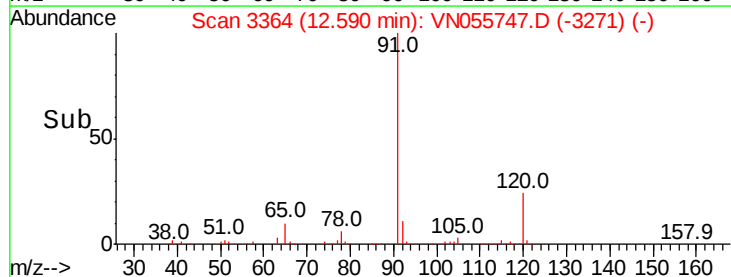
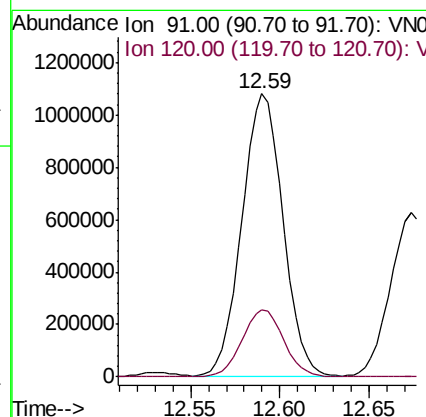
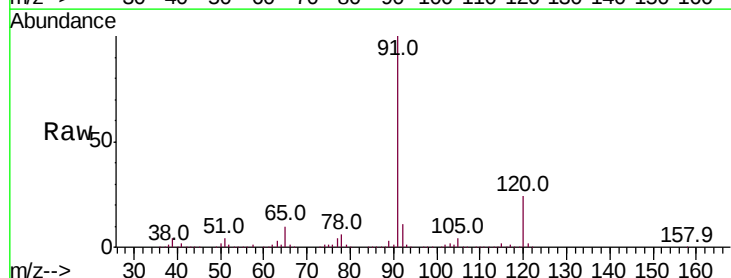
RT: 12.59 min Scan# 3364

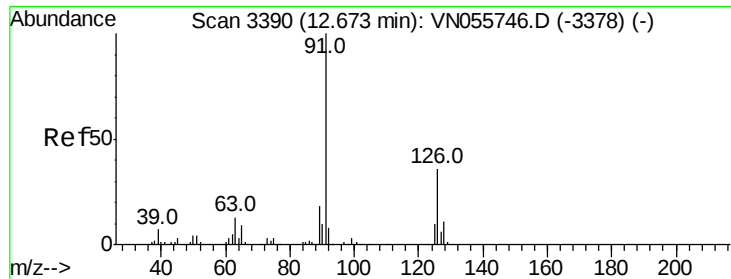
Delta R.T. 0.00 min

Lab File: VN055747.D

Acq: 23 May 2019 11:00

Tgt Ion:	91	Resp:	1723605
Ion Ratio	Lower	Upper	
91	100		
120	24.1	12.0	36.0





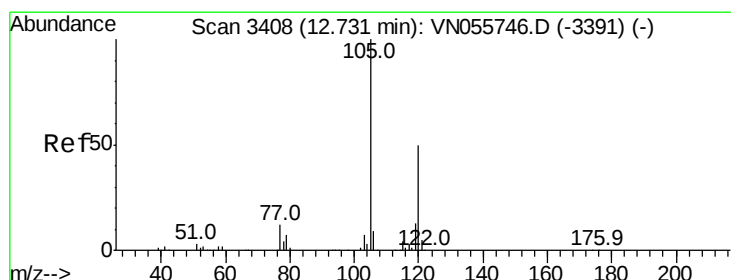
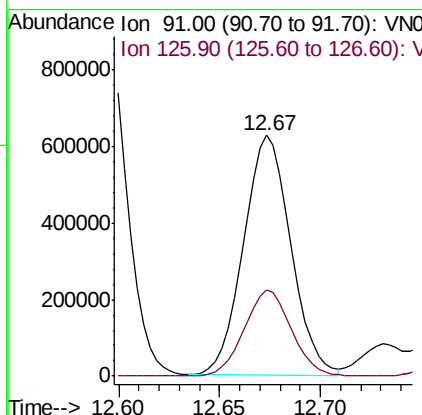
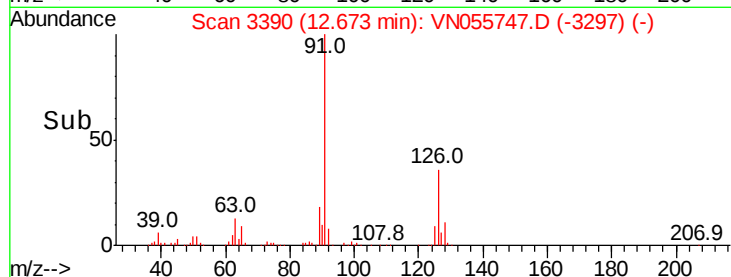
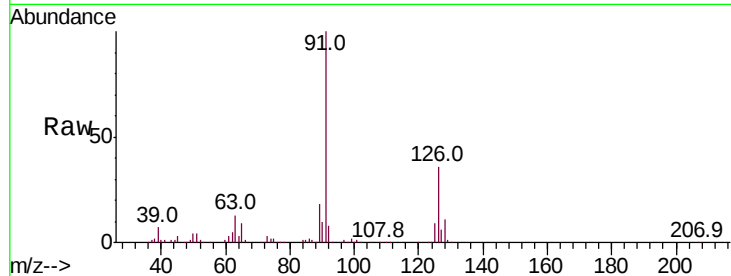
#79
 2-Chlorotoluene
 Concen: 85.252 ug/l
 RT: 12.67 min Scan# 3390
 Delta R.T. 0.00 min
 Lab File: VN055747.D
 Acq: 23 May 2019 11:00

Instrument :
 MSVOA_N
 ClientSampleId :
 VSTDIC100

Tot Ion: 91 Resp: 1026961
 Ion Ratio Lower Upper
 91 100
 126 36.1 18.1 54.4

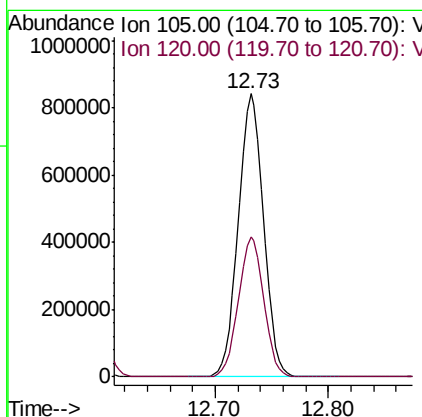
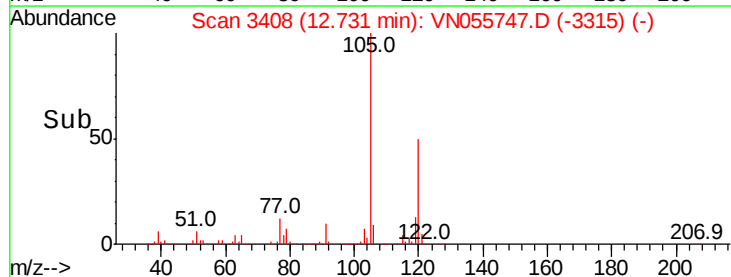
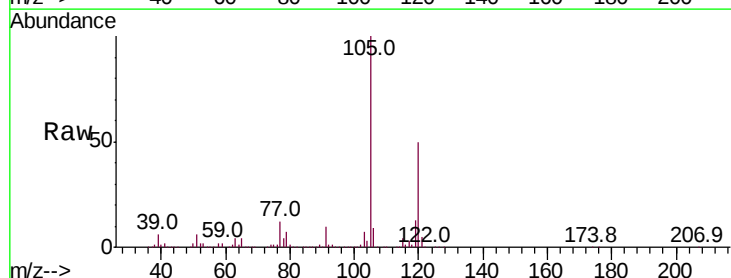
Manual Integrations
 APPROVED

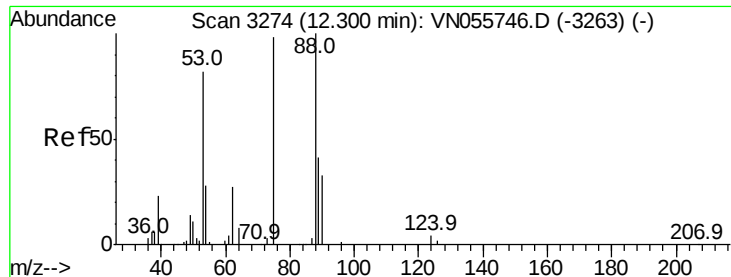
MMDadoda
 5/24/2019 9:22:11 AM



#80
 1,3,5-Trimethylbenzene
 Concen: 85.674 ug/l
 RT: 12.73 min Scan# 3408
 Delta R.T. 0.00 min
 Lab File: VN055747.D
 Acq: 23 May 2019 11:00

Tgt Ion: 105 Resp: 1312800
 Ion Ratio Lower Upper
 105 100
 120 49.6 24.7 74.1





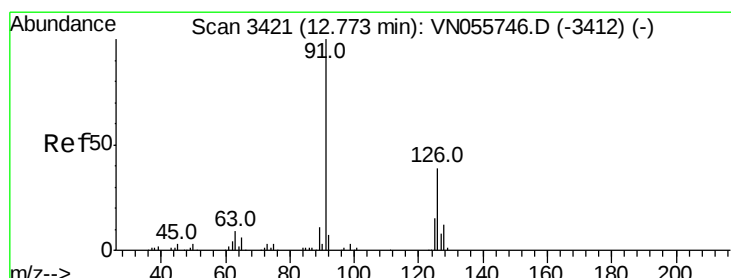
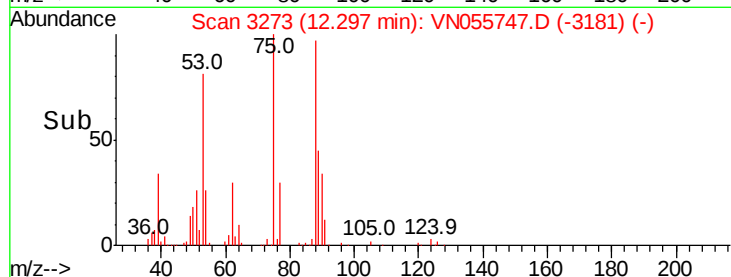
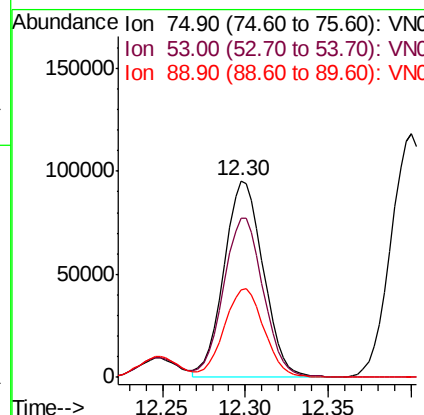
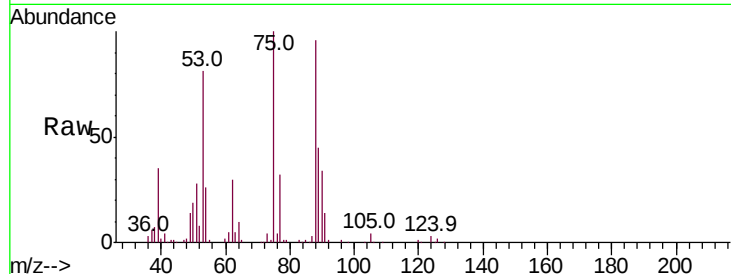
#81
trans-1,4-Dichloro-2-butene
Concen: 90.032 ug/l
RT: 12.30 min Scan# 3273
Delta R.T. -0.00 min
Lab File: VN055747.D
Acq: 23 May 2019 11:00

Instrument :
MSVOA_N
ClientSampleId :
VSTDIC100

Tot Ion	Ratio	Lower	Upper
75	100		
53	82.4	68.1	102.1
89	45.9	36.9	55.3

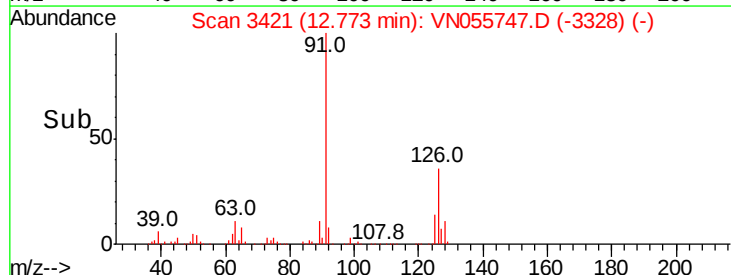
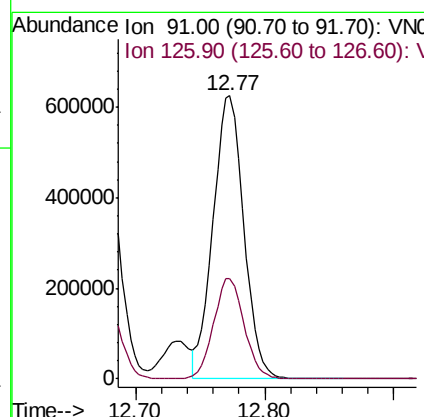
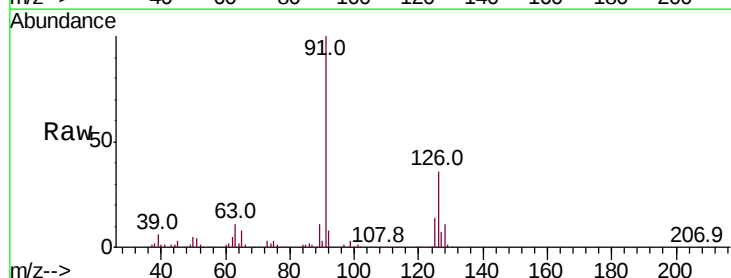
Manual Integrations
APPROVED

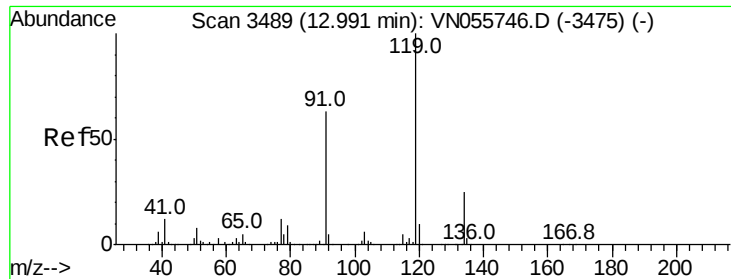
MMDadoda
5/24/2019 9:22:11 AM



#82
4-Chlorotoluene
Concen: 88.852 ug/l
RT: 12.77 min Scan# 3421
Delta R.T. 0.00 min
Lab File: VN055747.D
Acq: 23 May 2019 11:00

Tgt Ion	Ratio	Lower	Upper
91	100		
126	35.2	17.8	53.3





#83

tert-Butylbenzene

Concen: 83.940 ug/l

RT: 12.99 min Scan# 3489

Delta R.T. 0.00 min

Lab File: VN055747.D

Acq: 23 May 2019 11:00

Instrument :

MSVOA_N

ClientSampleId :

VSTDIC100

Tot Ion:119 Resp: 1128598

Ion Ratio Lower Upper

119 100

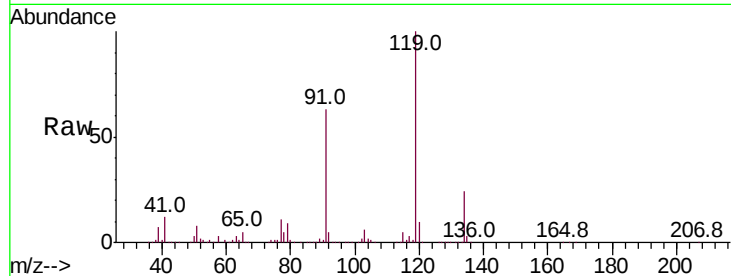
91 61.8 30.9 92.8

134 26.0 13.3 39.8

Manual Integrations
APPROVED

MMDadoda

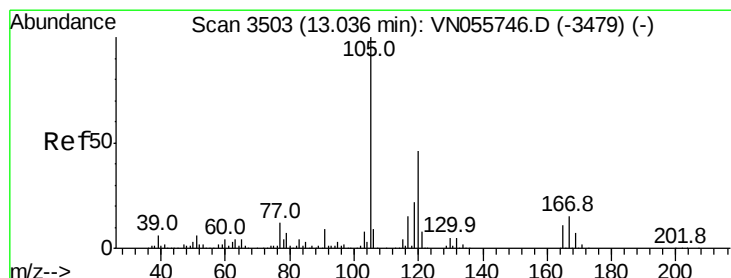
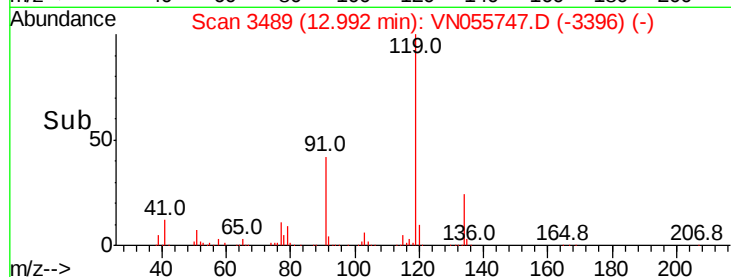
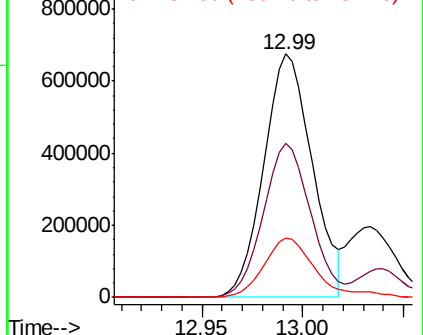
5/24/2019 9:22:11 AM



Abundance Ion 119.00 (118.70 to 119.70): V

Ion 91.00 (90.70 to 91.70): VN

Ion 134.00 (133.70 to 134.70): V



#84

1,2,4-Trimethylbenzene

Concen: 87.120 ug/l

RT: 13.04 min Scan# 3503

Delta R.T. 0.00 min

Lab File: VN055747.D

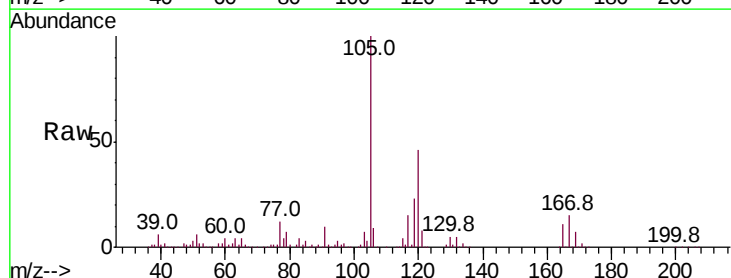
Acq: 23 May 2019 11:00

Tgt Ion:105 Resp: 1314753

Ion Ratio Lower Upper

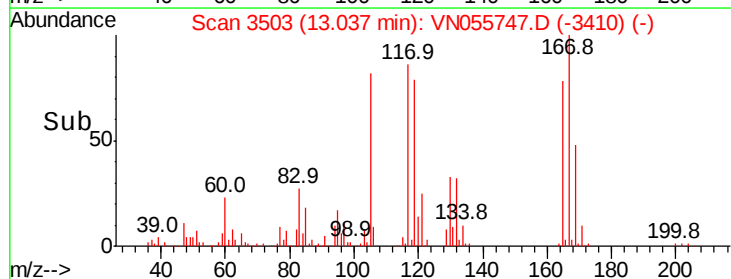
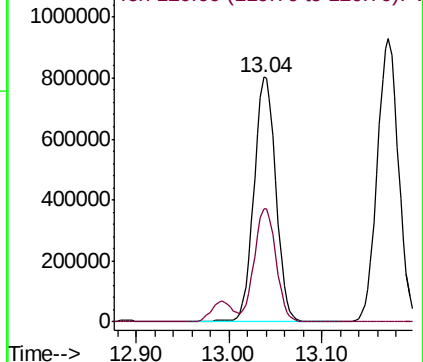
105 100

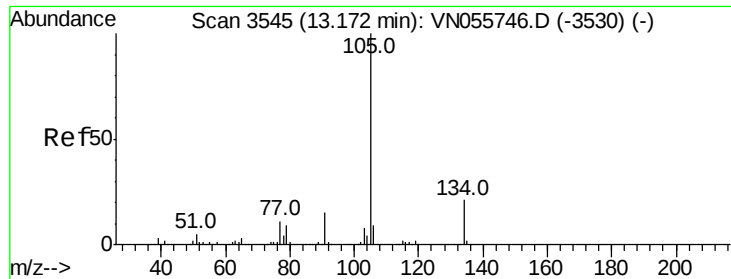
120 46.2 23.0 69.0



Abundance Ion 105.00 (104.70 to 105.70): V

Ion 120.00 (119.70 to 120.70): V





#85

sec-Butylbenzene

Concen: 86.583 ug/l

RT: 13.17 min Scan# 3545

Delta R.T. 0.00 min

Lab File: VN055747.D

Acq: 23 May 2019 11:00

Instrument :

MSVOA_N

ClientSampleID :

VSTDIC100

Tot Ion:105 Resp: 1478203

Ion Ratio Lower Upper

105 100

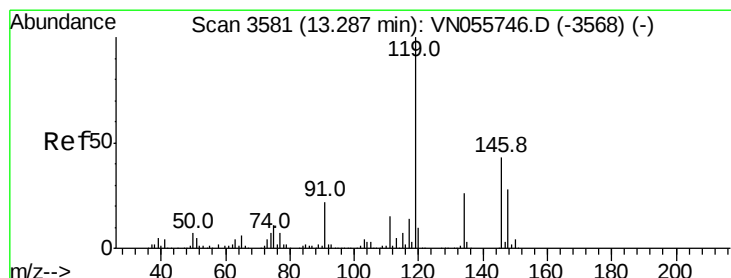
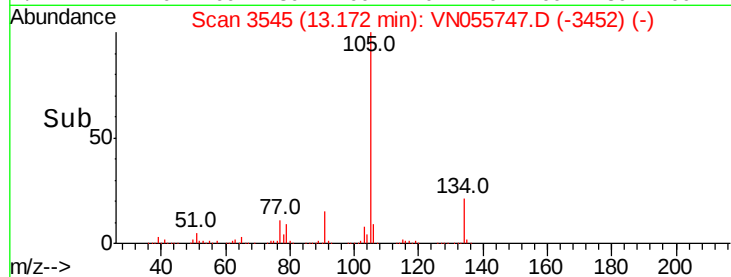
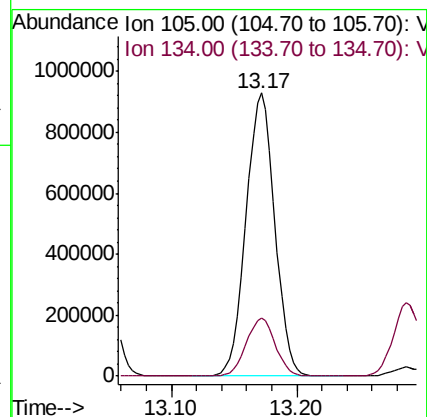
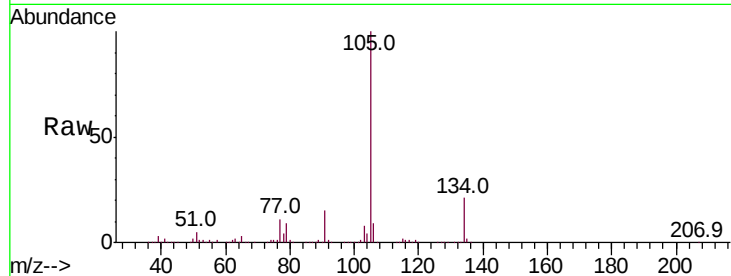
134 20.8 10.4 31.2

Manual Integrations

APPROVED

MMDadoda

5/24/2019 9:22:11 AM



#86

p-Isopropyltoluene

Concen: 88.141 ug/l

RT: 13.29 min Scan# 3581

Delta R.T. 0.00 min

Lab File: VN055747.D

Acq: 23 May 2019 11:00

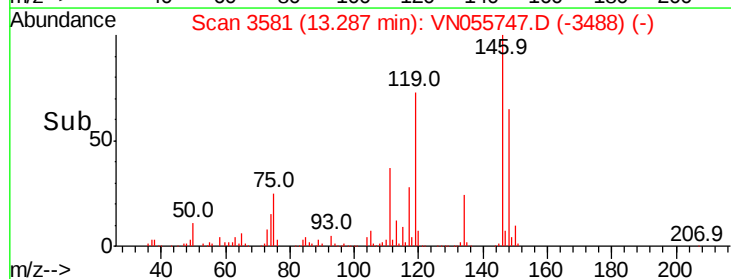
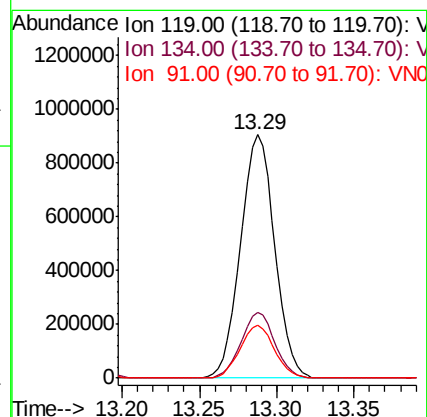
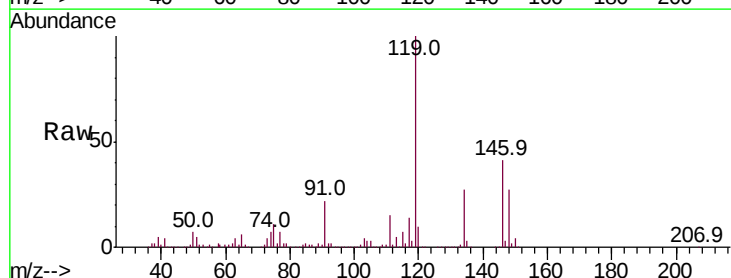
Tgt Ion:119 Resp: 1383129

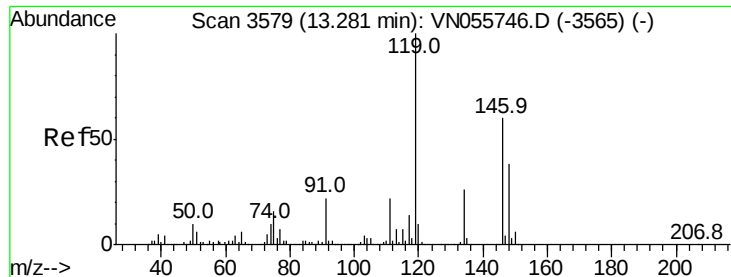
Ion Ratio Lower Upper

119 100

134 26.8 13.4 40.1

91 21.7 10.9 32.9





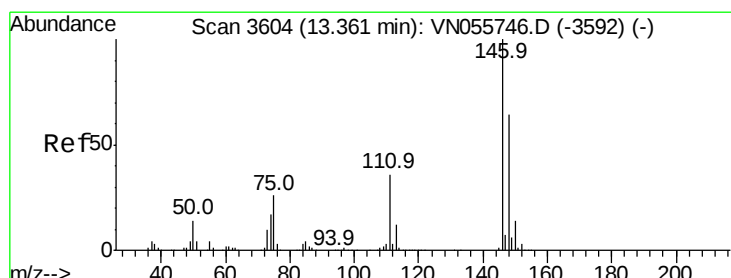
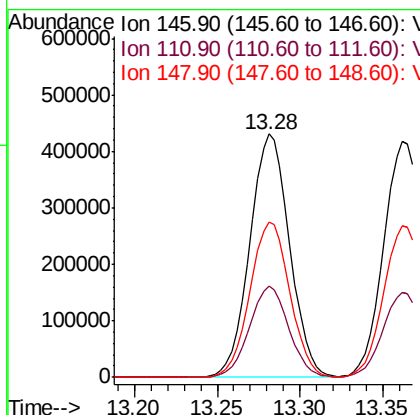
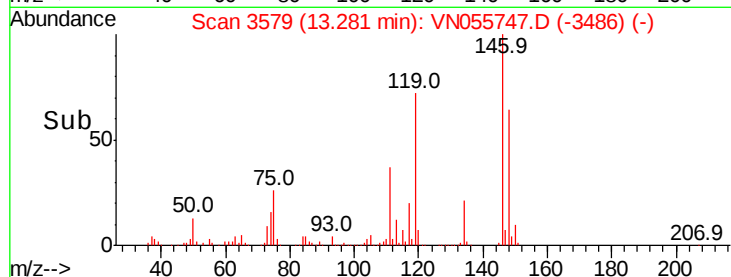
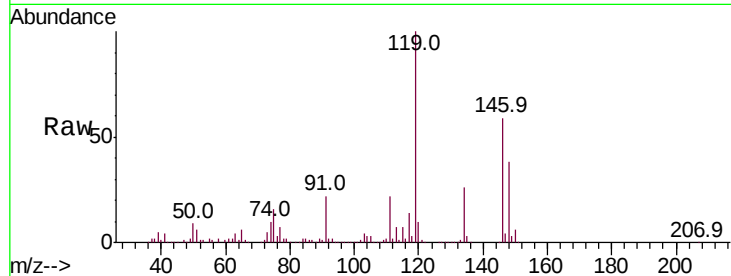
#87
 1,3-Dichlorobenzene
 Concen: 94.684 ug/l
 RT: 13.28 min Scan# 3579
 Delta R.T. 0.00 min
 Lab File: VN055747.D
 Acq: 23 May 2019 11:00

Instrument :
 MSVOA_N
 ClientSampleId :
 VSTDIC100

Tot Ion	Ratio	Lower	Upper
146	100		
111	37.1	18.5	55.5
148	64.2	32.0	96.2

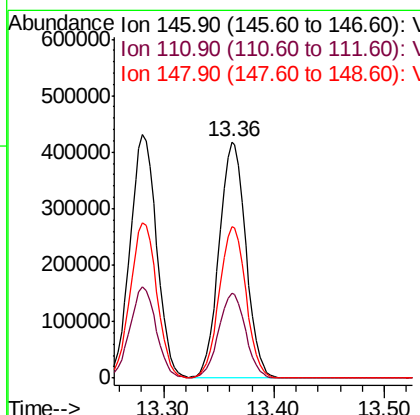
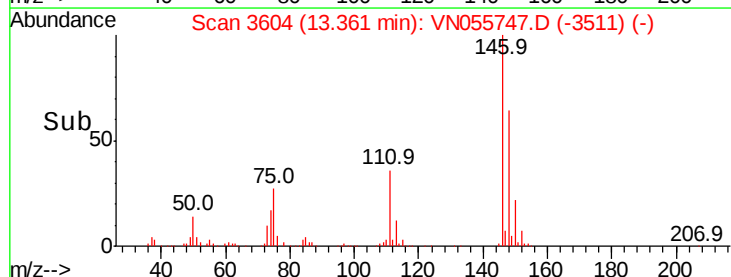
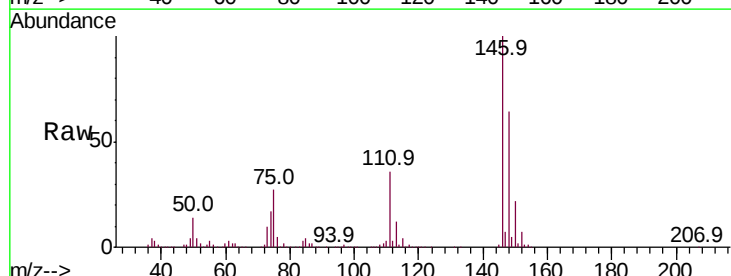
Manual Integrations
 APPROVED

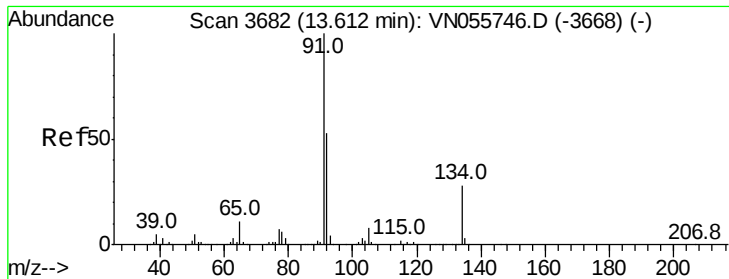
MMDadoda
 5/24/2019 9:22:11 AM



#88
 1,4-Dichlorobenzene
 Concen: 97.019 ug/l
 RT: 13.36 min Scan# 3604
 Delta R.T. 0.00 min
 Lab File: VN055747.D
 Acq: 23 May 2019 11:00

Tgt Ion	Ratio	Lower	Upper
146	100		
111	35.9	18.1	54.4
148	64.4	32.1	96.5





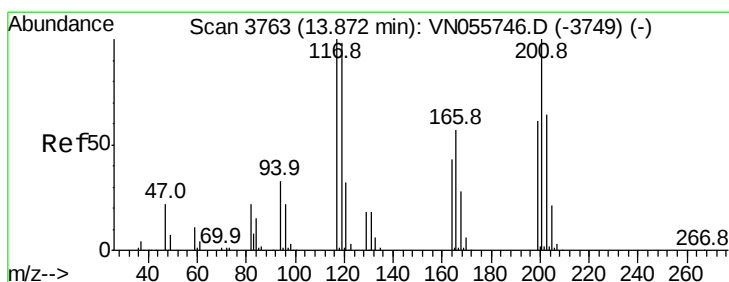
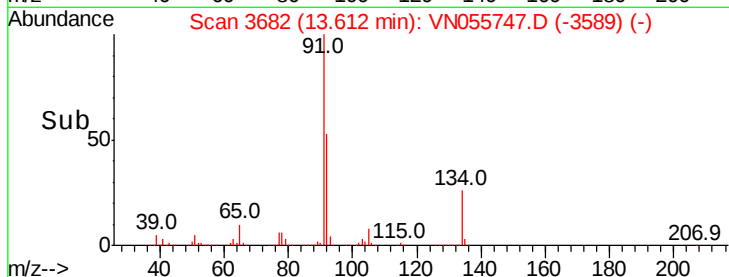
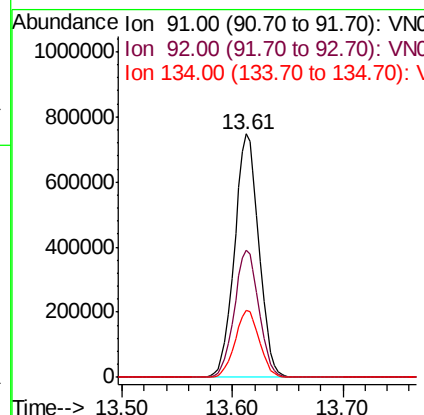
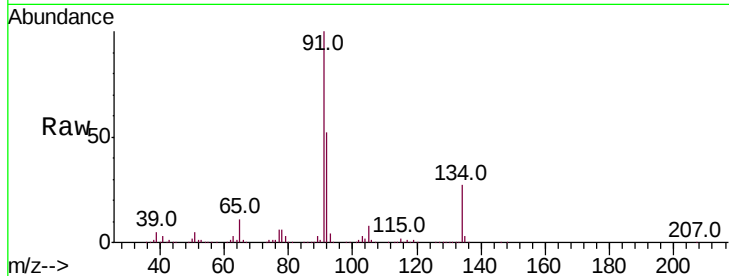
#89
n-Butylbenzene
Concen: 93.430 ug/l
RT: 13.61 min Scan# 3682
Delta R.T. 0.00 min
Lab File: VN055747.D
Acq: 23 May 2019 11:00

Instrument :
MSVOA_N
ClientSampleId :
VSTDICC100

Tot Ion	Ratio	Lower	Upper
91	100		
92	52.8	26.4	79.0
134	27.6	13.9	41.7

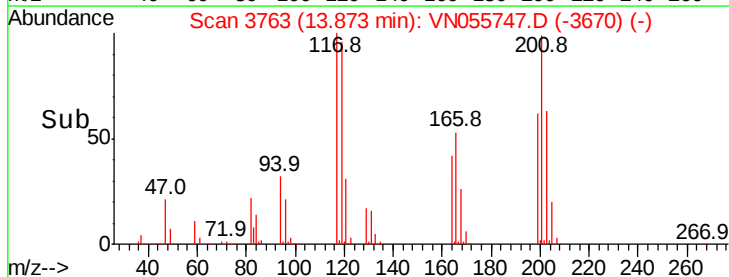
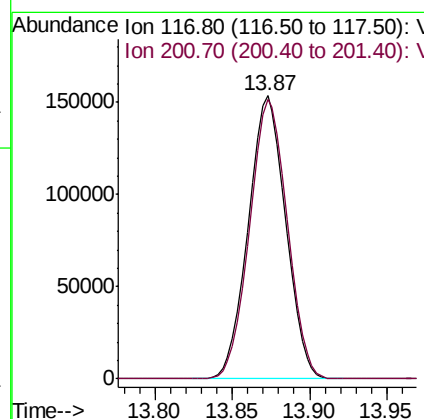
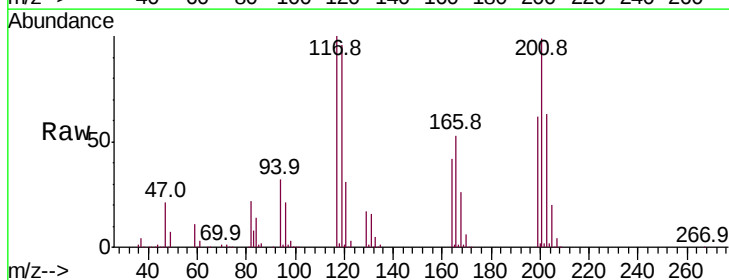
Manual Integrations
APPROVED

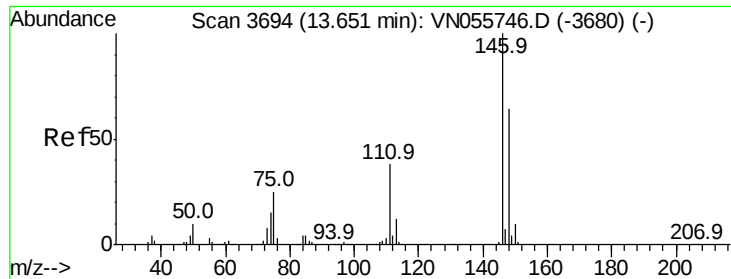
MMDadoda
5/24/2019 9:22:11 AM



#90
Hexachloroethane
Concen: 86.504 ug/l
RT: 13.87 min Scan# 3763
Delta R.T. 0.00 min
Lab File: VN055747.D
Acq: 23 May 2019 11:00

Tgt Ion	Ratio	Lower	Upper
117	100		
201	99.4	50.0	150.0





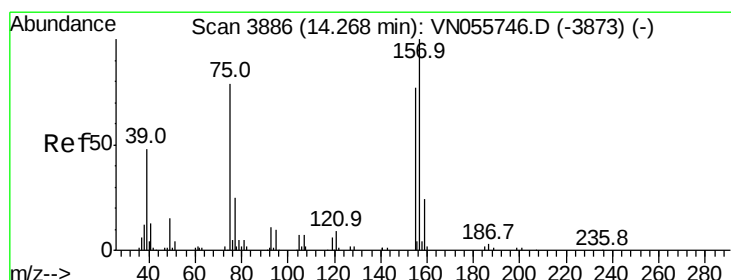
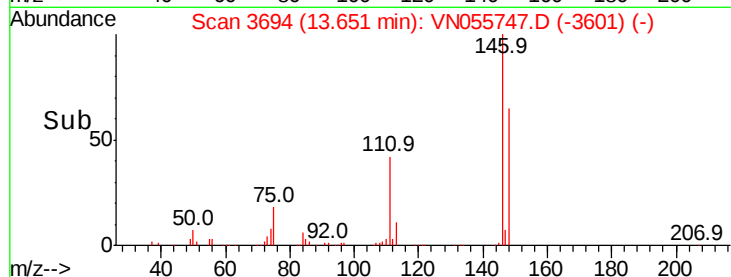
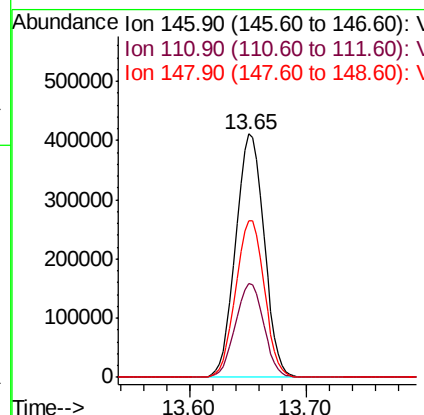
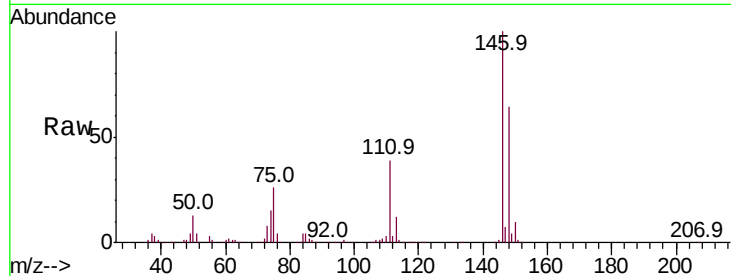
#91
 1,2-Dichlorobenzene
 Concen: 92.202 ug/l
 RT: 13.65 min Scan# 3694
 Delta R.T. 0.00 min
 Lab File: VN055747.D
 Acq: 23 May 2019 11:00

Instrument :
 MSVOA_N
 ClientSampled :
 VSTDIC100

Tot Ion	Ratio	Lower	Upper
146	100		
111	38.5	19.1	57.5
148	64.8	31.9	95.9

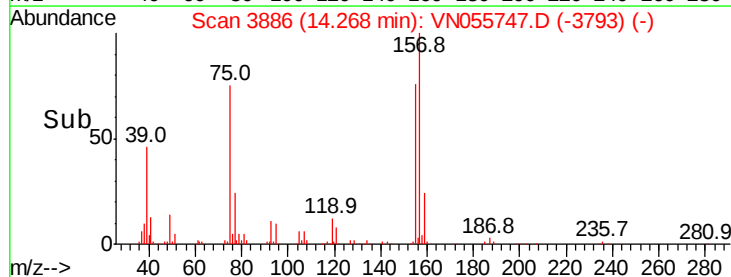
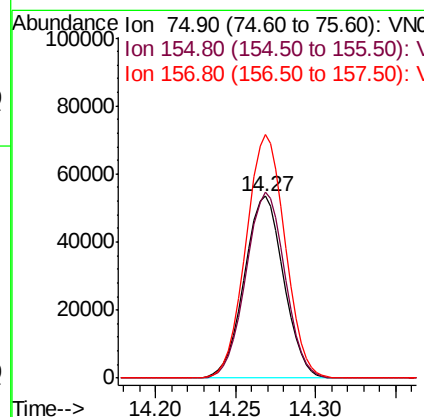
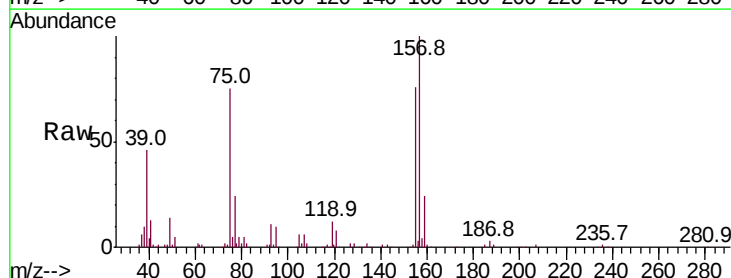
Manual Integrations
 APPROVED

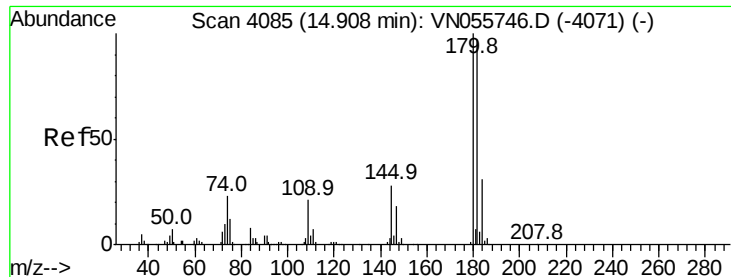
MMDadoda
 5/24/2019 9:22:11 AM



#92
 1,2-Dibromo-3-Chloropropane
 Concen: 89.815 ug/l
 RT: 14.27 min Scan# 3886
 Delta R.T. 0.00 min
 Lab File: VN055747.D
 Acq: 23 May 2019 11:00

Tgt Ion	Ratio	Lower	Upper
75	100		
155	101.7	50.0	150.1
157	133.1	64.8	194.3





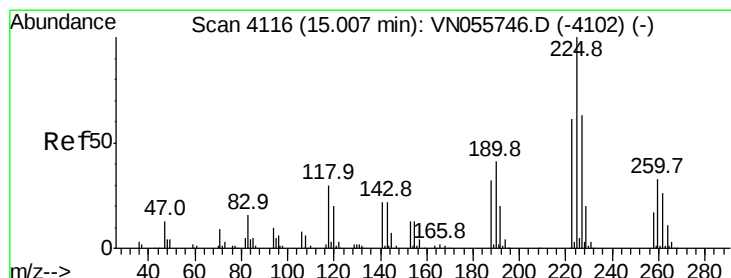
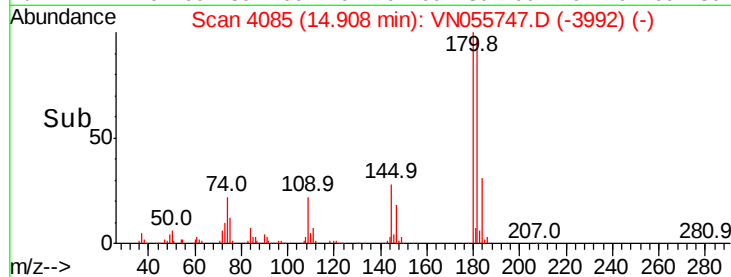
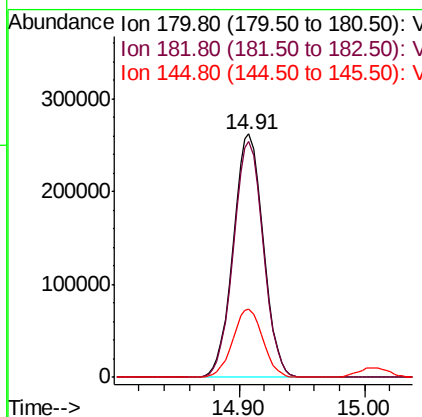
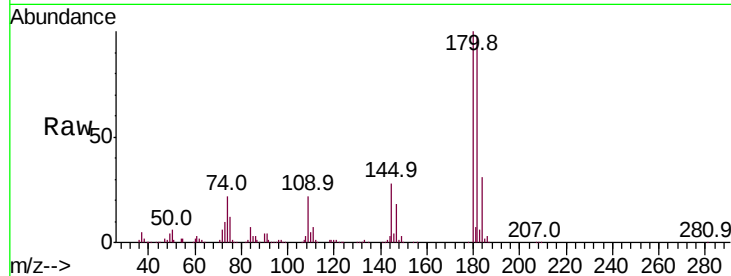
#93
 1,2,4-Trichlorobenzene
 Concen: 114.998 ug/l
 RT: 14.91 min Scan# 4085
 Delta R.T. 0.00 min
 Lab File: VN055747.D
 Acq: 23 May 2019 11:00

Instrument :
 MSVOA_N
 ClientSampleId :
 VSTDIC100

Tot Ion	Ratio	Resp	Lower	Upper
180	100			
182	96.3	48.3	144.9	
145	28.2	14.0	41.9	

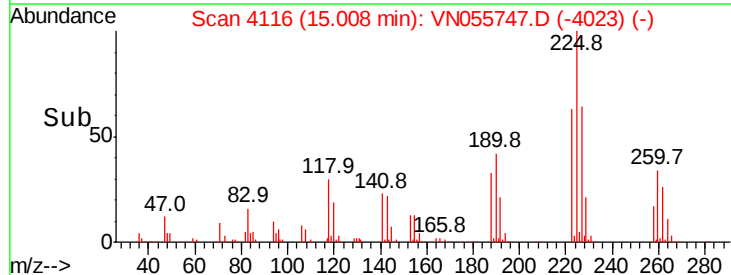
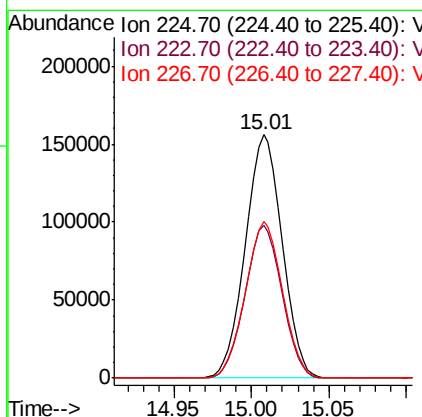
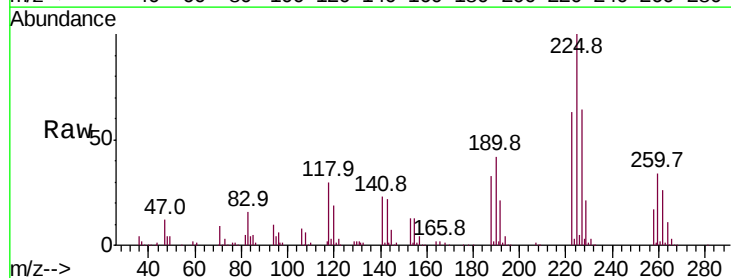
Manual Integrations
 APPROVED

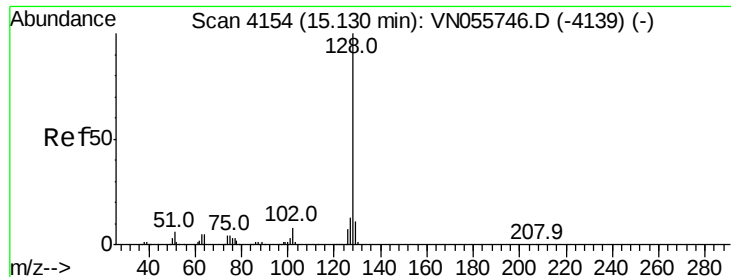
MMDadoda
 5/24/2019 9:22:11 AM



#94
 Hexachlorobutadiene
 Concen: 96.378 ug/l
 RT: 15.01 min Scan# 4116
 Delta R.T. 0.00 min
 Lab File: VN055747.D
 Acq: 23 May 2019 11:00

Tgt Ion	Ratio	Resp	Lower	Upper
225	100			
223	63.0	30.9	92.7	
227	64.5	31.6	94.7	





#95

Naphthalene

Concen: 113.293 ug/l

RT: 15.13 min Scan# 4154

Delta R.T. 0.00 min

Lab File: VN055747.D

Acq: 23 May 2019 11:00

Instrument :

MSVOA_N

ClientSampled :

VSTDIC100

Tot Ion:128 Resp: 1162390

Ion Ratio Lower Upper

128 100

127 12.9 10.3 15.5

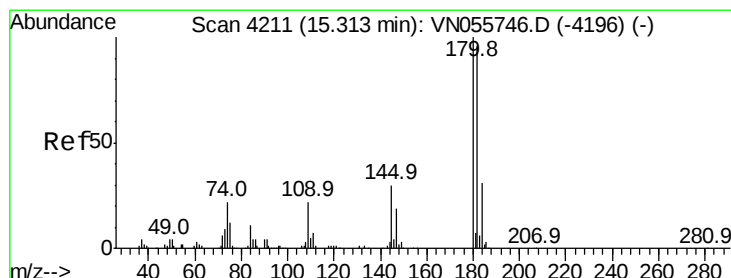
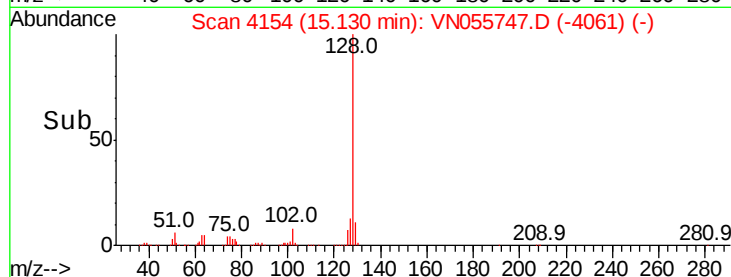
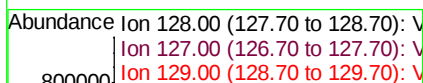
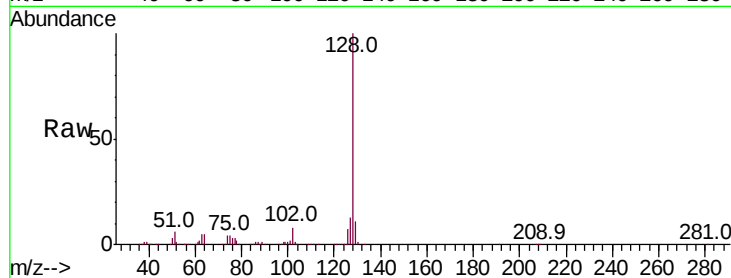
129 10.9 8.7 13.1

Manual Integrations

APPROVED

MMDadoda

5/24/2019 9:22:11 AM



#96

1,2,3-Trichlorobenzene

Concen: 109.080 ug/l

RT: 15.31 min Scan# 4211

Delta R.T. 0.00 min

Lab File: VN055747.D

Acq: 23 May 2019 11:00

Tgt Ion:180 Resp: 436313

Ion Ratio Lower Upper

180 100

182 95.6 47.9 143.7

145 29.7 14.9 44.7

