

Data Path : Z:\VOASRV\HPCHEM1\MSVOA N\DATA\VN080618\
 Data File : VN050403.D
 Acq On : 7 Aug 2018 00:08
 Operator : MD\SY
 Sample : VN0806WBSD02
 Misc : 5.00mL/MSVOA N/WATER
 ALS Vial : 32 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 VN0806WBSD02

Manual Integrations
 APPROVED

MMDadoda
 8/7/2018 9:59:19 AM

Quant Time: Aug 07 07:36:09 2018
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_N\METHODS\82N080618W.M
 Quant Title : SW846 8260
 QLast Update : Tue Aug 07 05:22:15 2018
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	7.67	168	628863	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	8.59	114	940386	50.00	ug/l	0.00
63) Chlorobenzene-d5	11.41	117	846947	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.35	152	434575	50.00	ug/l	0.00

System Monitoring Compounds

33) 1,2-Dichloroethane-d4	8.03	65	436638	51.97	ug/l	0.00
Spiked Amount	50.000		Recovery	=	103.94%	
35) Dibromofluoromethane	7.59	113	385141	51.04	ug/l	0.00
Spiked Amount	50.000		Recovery	=	102.08%	
50) Toluene-d8	10.09	98	1434029	50.55	ug/l	0.00
Spiked Amount	50.000		Recovery	=	101.10%	
62) 4-Bromofluorobenzene	12.40	95	463236	47.91	ug/l	0.00
Spiked Amount	50.000		Recovery	=	95.82%	

Target Compounds

						Qvalue
2) Dichlorodifluoromethane	1.85	85	141039	20.20	ug/l	98
3) Chloromethane	2.06	50	175042	20.35	ug/l	100
4) Vinyl Chloride	2.18	62	189610	20.98	ug/l	100
5) Bromomethane	2.56	94	98818	22.65	ug/l	100
6) Chloroethane	2.70	64	113372	20.36	ug/l	100
7) Trichlorofluoromethane	3.01	101	243218	20.84	ug/l	99
8) Diethyl Ether	3.41	74	86717	20.26	ug/l	98
9) 1,1,2-Trichlorotrifluoroet	3.75	101	147188	20.41	ug/l	100
10) Methyl Iodide	3.95	142	78298	24.64	ug/l	100
11) Tert butyl alcohol	4.80	59	69610	103.13	ug/l	99
12) 1,1-Dichloroethene	3.73	96	136626	20.10	ug/l	97
13) Acrolein	3.61	56	82792	103.64	ug/l	97
14) Allyl chloride	4.32	41	209134	19.15	ug/l	98
15) Acrylonitrile	5.00	53	288692	102.11	ug/l	99
16) Acetone	3.82	43	269427	107.32	ug/l	98
17) Carbon Disulfide	4.05	76	410191	18.55	ug/l	99
18) Methyl Acetate	4.33	43	140318	21.44	ug/l	98
19) Methyl tert-butyl Ether	5.05	73	394863	20.46	ug/l	98
20) Methylene Chloride	4.55	84	163119	20.37	ug/l	99
21) trans-1,2-Dichloroethene	5.04	96	149205	20.28	ug/l	98
22) Diisopropyl ether	5.96	45	474945	21.29	ug/l	99
23) Vinyl Acetate	5.90	43	1648028	103.56	ug/l	99
24) 1,1-Dichloroethane	5.85	63	281353	20.56	ug/l	100
25) 2-Butanone	6.84	43	436670	104.88	ug/l	99
26) 2,2-Dichloropropane	6.83	77	171850	15.23	ug/l	97
27) cis-1,2-Dichloroethene	6.83	96	164127	20.13	ug/l	98
28) Bromochloromethane	7.20	49	135087	21.44	ug/l	98
29) Tetrahydrofuran	7.22	42	230538	103.45	ug/l	100
30) Chloroform	7.37	83	285101	20.84	ug/l	99
31) Cyclohexane	7.66	56	238184	19.39	ug/l	96
32) 1,1,1-Trichloroethane	7.57	97	240968	20.51	ug/l	99
36) 1,1-Dichloropropene	7.80	75	208300	20.16	ug/l	99
37) Ethyl Acetate	6.94	43	156973	21.10	ug/l	100
38) Carbon Tetrachloride	7.78	117	214511	19.90	ug/l	99

Data Path : Z:\VOASRV\HPCHEM1\MSVOA N\DATA\VN080618\
 Data File : VN050403.D
 Acq On : 7 Aug 2018 00:08
 Operator : MD\SY
 Sample : VN0806WBSD02
 Misc : 5.00mL/MSVOA N/WATER
 ALS Vial : 32 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 VN0806WBSD02

Manual Integrations
 APPROVED

MMDadoda
 8/7/2018 9:59:19 AM

Quant Time: Aug 07 07:36:09 2018
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_N\METHODS\82N080618W.M
 Quant Title : SW846 8260
 QLast Update : Tue Aug 07 05:22:15 2018
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
39) Methylcyclohexane	9.08	83	212077	18.80	ug/l	99
40) Benzene	8.04	78	643385	20.25	ug/l	98
41) Methacrylonitrile	7.18	41	75062	18.97	ug/l	88
42) 1,2-Dichloroethane	8.13	62	208161	20.64	ug/l	99
43) Isopropyl Acetate	8.17	43	279539	21.76	ug/l	99
44) Trichloroethene	8.84	130	166185	19.47	ug/l	99
45) 1,2-Dichloropropane	9.12	63	167853	20.10	ug/l	97
46) Dibromomethane	9.21	93	105950	20.54	ug/l	99
47) Bromodichloromethane	9.41	83	214573	20.09	ug/l	99
48) Methyl methacrylate	9.20	41	129136	20.06	ug/l	98
49) 1,4-Dioxane	9.20	88	39661	399.66	ug/l	97
51) 4-Methyl-2-Pentanone	9.99	43	979831	105.92	ug/l	100
52) Toluene	10.16	92	393075	20.60	ug/l	99
53) t-1,3-Dichloropropene	10.38	75	203974	19.02	ug/l	97
54) cis-1,3-Dichloropropene	9.84	75	234613	19.60	ug/l	97
55) 1,1,2-Trichloroethane	10.56	97	149892	20.12	ug/l	95
56) Ethyl methacrylate	10.43	69	189903	19.11	ug/l	99
57) 1,3-Dichloropropane	10.71	76	252391	20.64	ug/l	100
58) 2-Chloroethyl Vinyl ether	9.70	63	456187	97.49	ug/l	100
59) 2-Hexanone	10.75	43	668503	103.55	ug/l	99
60) Dibromochloromethane	10.90	129	167598	20.42	ug/l	100
61) 1,2-Dibromoethane	11.01	107	150074	20.44	ug/l	98
64) Tetrachloroethene	10.63	164	168068	21.24	ug/l	97
65) Chlorobenzene	11.44	112	419691	19.77	ug/l	99
66) 1,1,1,2-Tetrachloroethane	11.51	131	157256	20.35	ug/l	98
67) Ethyl Benzene	11.51	91	694583	20.24	ug/l	100
68) m/p-Xylenes	11.62	106	537774	41.16	ug/l	99
69) o-Xylene	11.95	106	257159	20.43	ug/l	97
70) Styrene	11.97	104	417334	20.39	ug/l	100
71) Bromoform	12.13	173	115345	20.42	ug/l #	99
73) Isopropylbenzene	12.25	105	679213	20.82	ug/l	100
74) N-amyl acetate	12.07	43	219473	20.76	ug/l	100
75) 1,1,2,2-Tetrachloroethane	12.51	83	196192	20.85	ug/l	100
76) 1,2,3-Trichloropropane	12.56	75	167275m	21.27	ug/l	
77) Bromobenzene	12.53	156	181248	20.74	ug/l	100
78) n-propylbenzene	12.59	91	775736	21.01	ug/l	100
79) 2-Chlorotoluene	12.68	91	470553	20.63	ug/l	100
80) 1,3,5-Trimethylbenzene	12.73	105	561197	21.19	ug/l	99
81) trans-1,4-Dichloro-2-buten	12.30	75	44382	19.82	ug/l	95
82) 4-Chlorotoluene	12.78	91	477740	21.01	ug/l	99
83) tert-Butylbenzene	12.99	119	471950	20.43	ug/l	99
84) 1,2,4-Trimethylbenzene	13.04	105	575024	21.44	ug/l	100
85) sec-Butylbenzene	13.17	105	635640	20.64	ug/l	99
86) p-Isopropyltoluene	13.29	119	547230	20.74	ug/l	100
87) 1,3-Dichlorobenzene	13.28	146	314028	20.17	ug/l	99
88) 1,4-Dichlorobenzene	13.36	146	307149	19.76	ug/l	99
89) n-Butylbenzene	13.62	91	417922	18.60	ug/l	100
90) Hexachloroethane	13.88	117	94246	20.09	ug/l	99
91) 1,2-Dichlorobenzene	13.65	146	311664	19.97	ug/l	100
92) 1,2-Dibromo-3-Chloropropan	14.27	75	31082	19.45	ug/l	97

Data Path : Z:\VOASRV\HPCHEM1\MSVOA N\DATA\VN080618\
Data File : VN050403.D
Acq On : 7 Aug 2018 00:08
Operator : MD\SY
Sample : VN0806WBSD02
Misc : 5.00mL/MSVOA N/WATER
ALS Vial : 32 Sample Multiplier: 1

Instrument :
MSVOA_N
ClientSampleId :
VN0806WBSD02

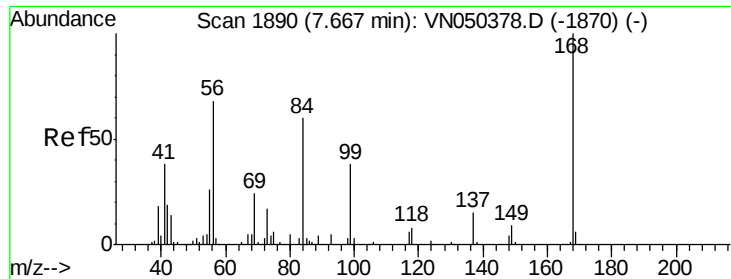
Manual Integrations
APPROVED

MMDadoda
8/7/2018 9:59:19 AM

Quant Time: Aug 07 07:36:09 2018
Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_N\METHODS\82N080618W.M
Quant Title : SW846 8260
QLast Update : Tue Aug 07 05:22:15 2018
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
93) 1,2,4-Trichlorobenzene	14.91	180	153985	19.38	ug/l	98
94) Hexachlorobutadiene	15.01	225	91235	20.03	ug/l	97
95) Naphthalene	15.14	128	350244	19.06	ug/l	100
96) 1,2,3-Trichlorobenzene	15.32	180	155146	19.31	ug/l	98

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



#1

Pentafluorobenzene

Concen: 50.00 ug/l

RT: 7.67 min Scan# 1891

Delta R.T. 0.00 min

Lab File: VN050403.D

Acq: 7 Aug 2018 00:08

Instrument :

MSVOA_N

ClientSampleId :

VN0806WBSD02

Tot Ion:168 Resp: 628863

Ion Ratio Lower Upper

168 100

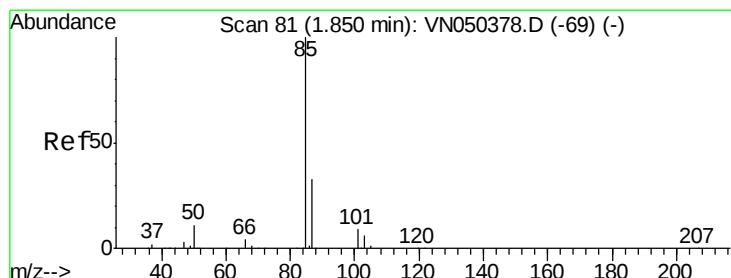
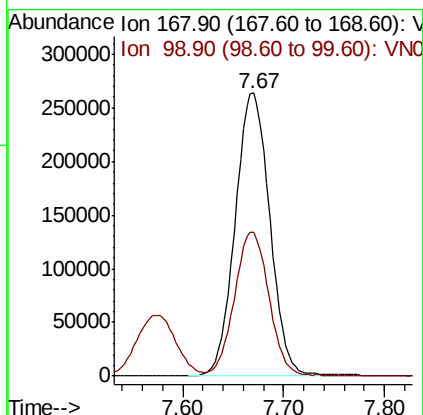
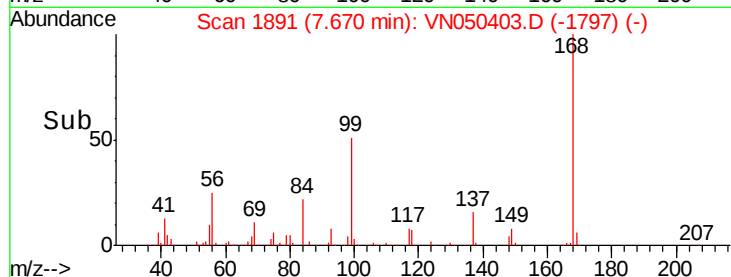
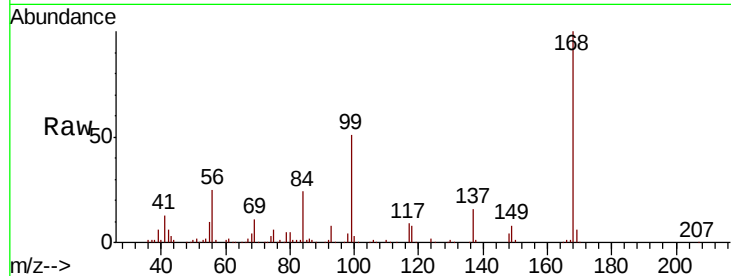
99 50.3 40.0 60.0

Manual Integrations

APPROVED

MMDadoda

8/7/2018 9:59:19 AM



#2

Dichlorodifluoromethane

Concen: 20.20 ug/l

RT: 1.85 min Scan# 81

Delta R.T. -0.00 min

Lab File: VN050403.D

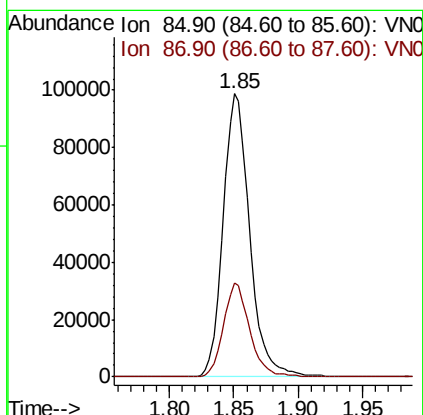
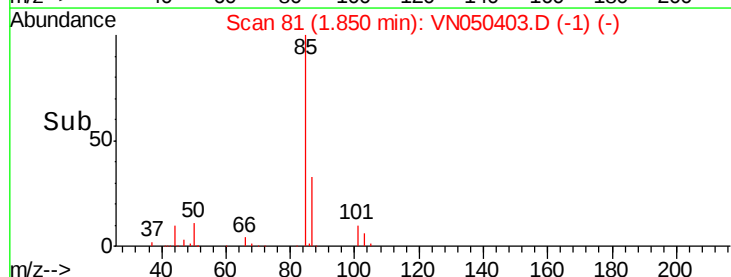
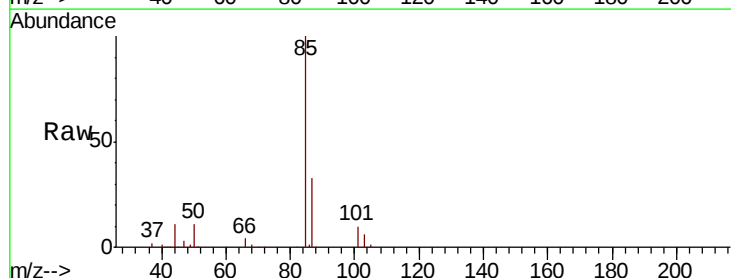
Acq: 7 Aug 2018 00:08

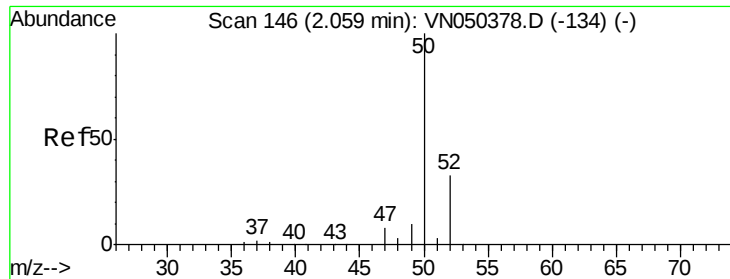
Tgt Ion: 85 Resp: 141039

Ion Ratio Lower Upper

85 100

87 33.2 16.1 48.3





#3

Chloromethane

Concen: 20.35 ug/l

RT: 2.06 min Scan# 146

Delta R.T. 0.00 min

Lab File: VN050403.D

Acq: 7 Aug 2018 00:08

Instrument :

MSVOA_N

ClientSampleId :

VN0806WBSD02

Tot Ion: 50 Resp: 175042

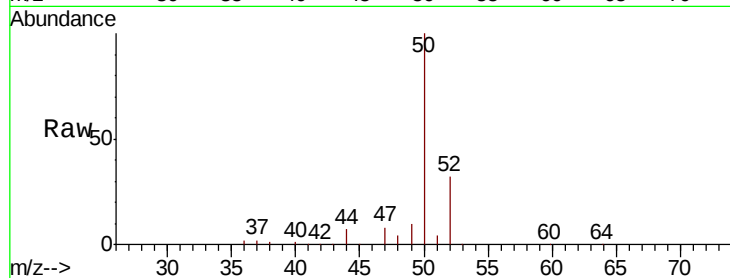
Ion Ratio Lower Upper

50 100

52 32.5 25.9 38.9

Manual Integrations
APPROVED

MMDadoda
8/7/2018 9:59:19 AM



Abundance Ion 49.90 (49.60 to 50.60): VN050403.D (-53) (-)

Ion 51.90 (51.60 to 52.60): VN050403.D (-53) (-)

2.06

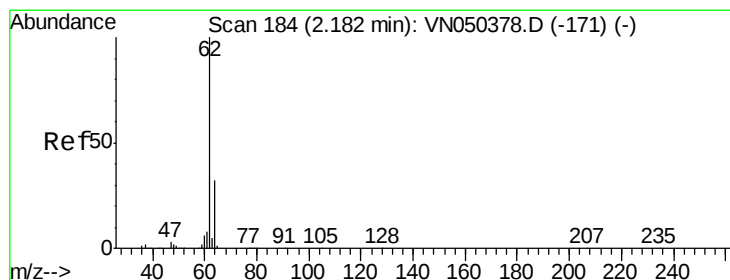
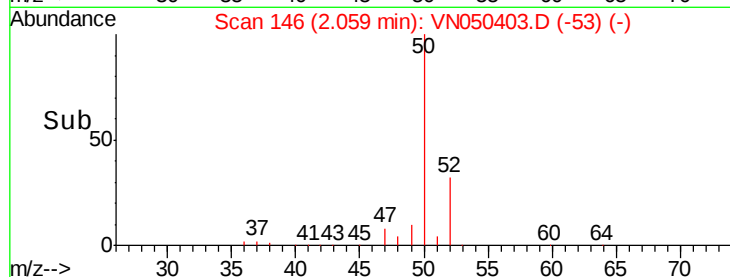
150000

100000

50000

0

Time-->



#4

Vinyl Chloride

Concen: 20.98 ug/l

RT: 2.18 min Scan# 184

Delta R.T. -0.00 min

Lab File: VN050403.D

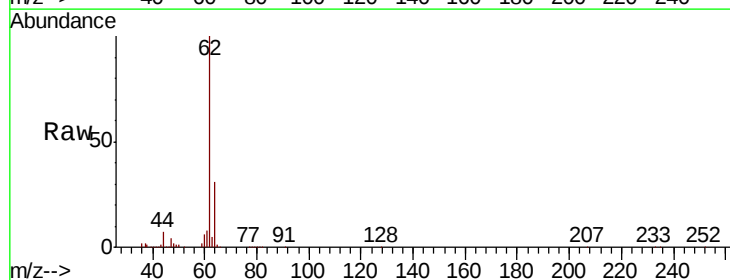
Acq: 7 Aug 2018 00:08

Tgt Ion: 62 Resp: 189610

Ion Ratio Lower Upper

62 100

64 31.1 24.7 37.1



Abundance Ion 61.90 (61.60 to 62.60): VN050403.D (-91) (-)

Ion 63.90 (63.60 to 64.60): VN050403.D (-91) (-)

2.18

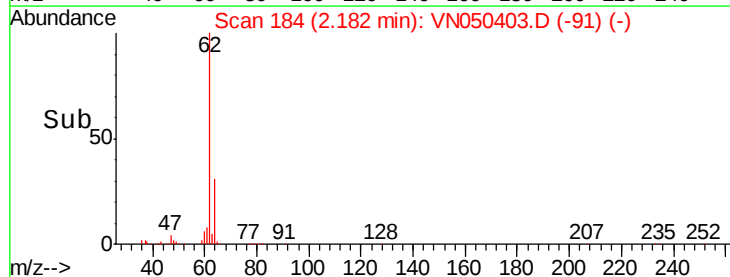
150000

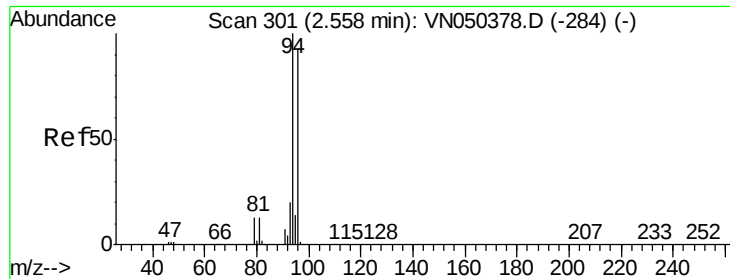
100000

50000

0

Time-->





#5

Bromomethane

Concen: 22.65 ug/l

RT: 2.56 min Scan# 302

Delta R.T. 0.00 min

Lab File: VN050403.D

Acq: 7 Aug 2018 00:08

Instrument :

MSVOA_N

ClientSampleId :

VN0806WBSD02

Tot Ion: 94 Resp: 98818

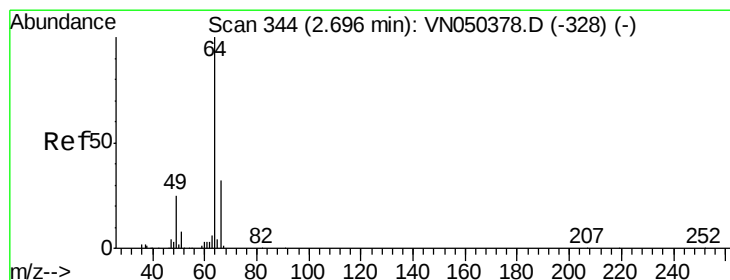
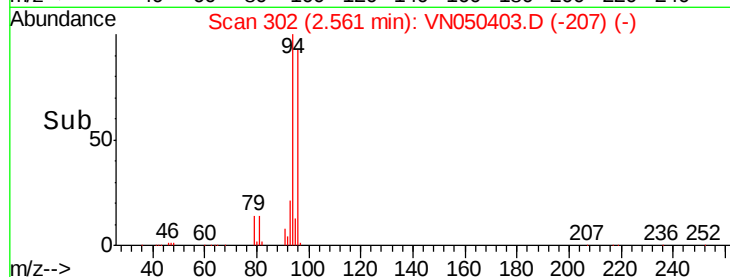
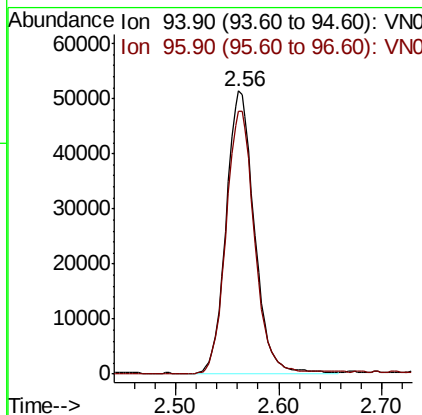
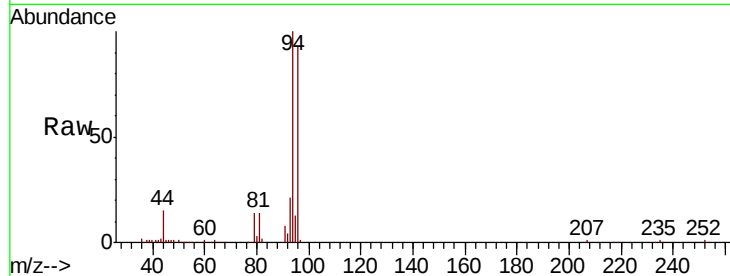
Ion Ratio Lower Upper

94 100

96 93.0 74.6 112.0

Manual Integrations
APPROVED

MMDadoda
8/7/2018 9:59:19 AM



#6

Chloroethane

Concen: 20.36 ug/l

RT: 2.70 min Scan# 345

Delta R.T. 0.00 min

Lab File: VN050403.D

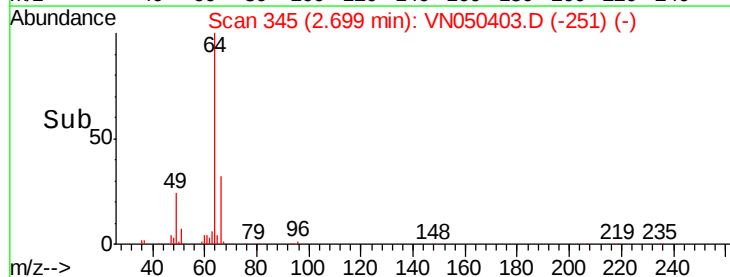
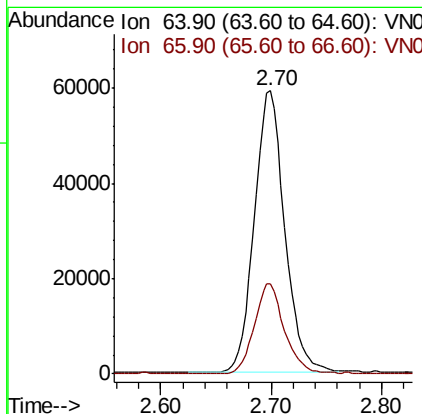
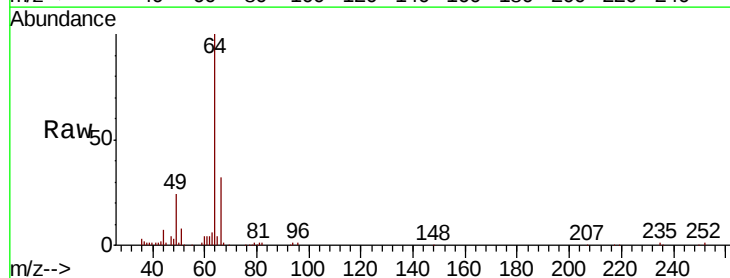
Acq: 7 Aug 2018 00:08

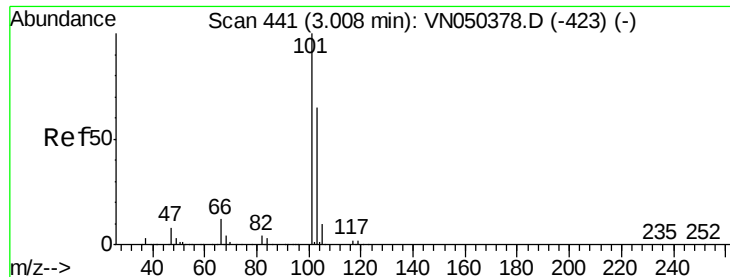
Tgt Ion: 64 Resp: 113372

Ion Ratio Lower Upper

64 100

66 31.5 25.3 37.9





#7

Trichlorofluoromethane

Concen: 20.84 ug/l

RT: 3.01 min Scan# 441

Delta R.T. -0.00 min

Lab File: VN050403.D

Acq: 7 Aug 2018 00:08

Instrument :

MSVOA_N

ClientSampleId :

VN0806WBSD02

Tot Ion:101 Resp: 243218

Ion Ratio Lower Upper

101 100

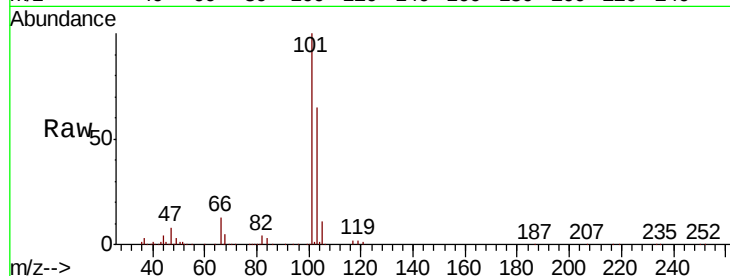
103 65.4 51.7 77.5

Manual Integrations

APPROVED

MMDadoda

8/7/2018 9:59:19 AM



Abundance Ion 100.90 (100.60 to 101.60): V

Ion 102.80 (102.50 to 103.50): V

3.01

120000

100000

80000

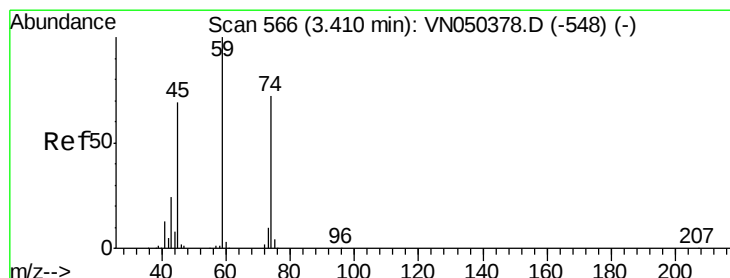
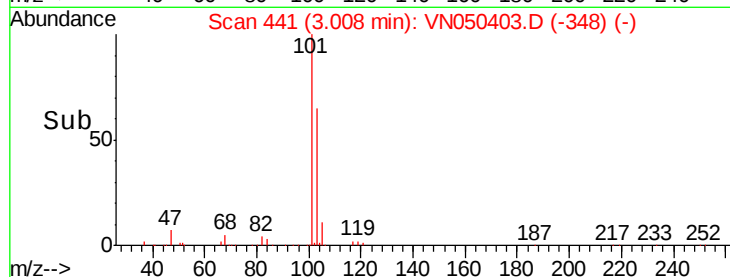
60000

40000

20000

0

Time--> 2.90 2.95 3.00 3.05 3.10



#8

Diethyl Ether

Concen: 20.26 ug/l

RT: 3.41 min Scan# 566

Delta R.T. -0.00 min

Lab File: VN050403.D

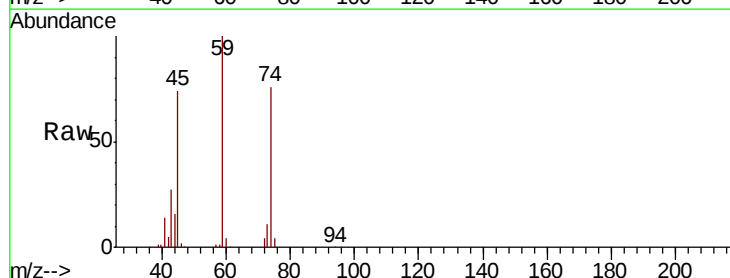
Acq: 7 Aug 2018 00:08

Tgt Ion: 74 Resp: 86717

Ion Ratio Lower Upper

74 100

45 96.9 47.6 142.8



Abundance Ion 74.00 (73.70 to 74.70): VNO

Ion 45.00 (44.70 to 45.70): VNO

3.41

40000

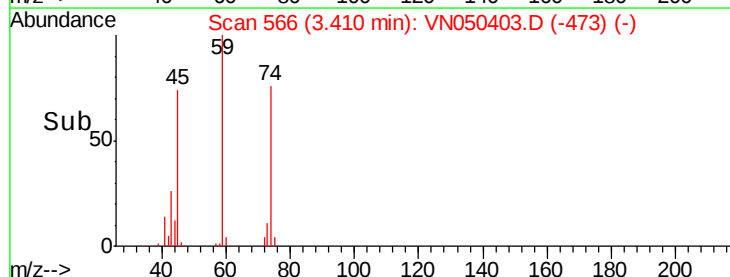
30000

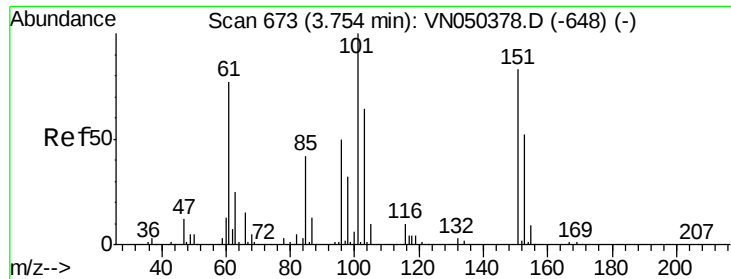
20000

10000

0

Time--> 3.30 3.35 3.40 3.45 3.50





#9

1,1,2-Trichlorotrifluoroethane

Concen: 20.41 ug/l

RT: 3.75 min Scan# 673

Delta R.T. -0.00 min

Lab File: VN050403.D

Acq: 7 Aug 2018 00:08

Instrument :

MSVOA_N

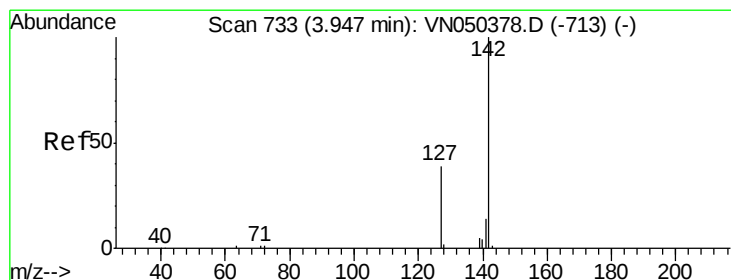
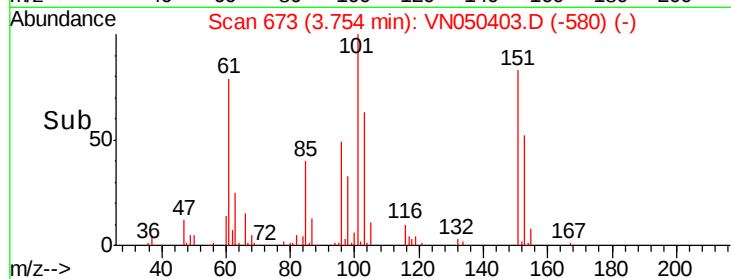
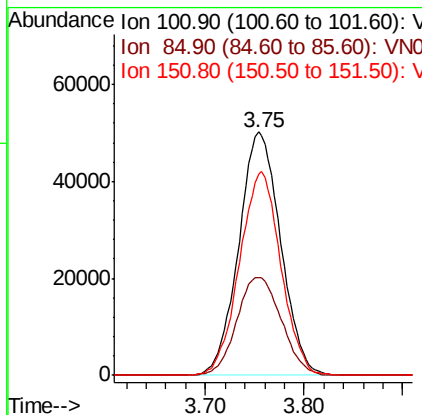
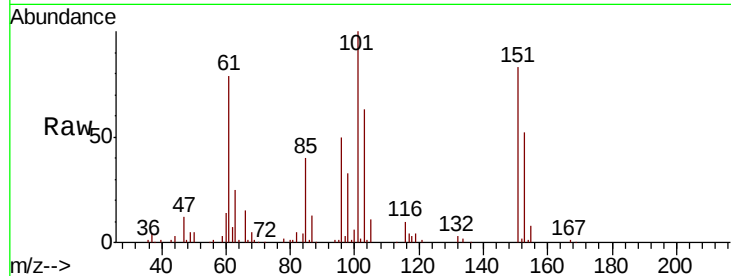
ClientSampleId :

VN0806WBSD02

Tot Ion:	101	Resp:	147188
Ion Ratio	Lower	Upper	
101	100		
85	42.8	34.2	51.2
151	82.7	66.3	99.5

Manual Integrations
APPROVED

MMDadoda
8/7/2018 9:59:19 AM



#10

Methyl Iodide

Concen: 24.64 ug/l

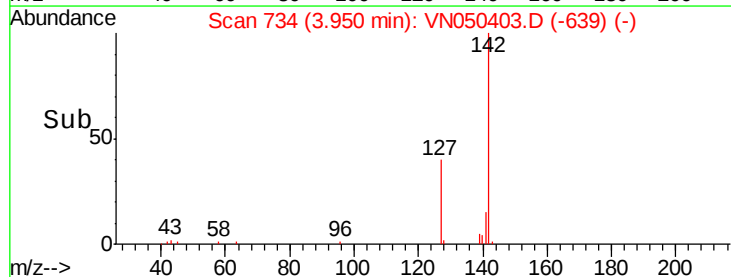
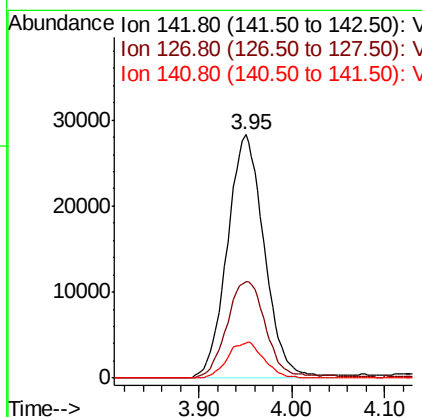
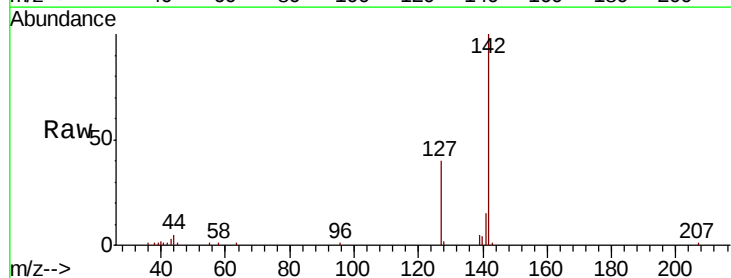
RT: 3.95 min Scan# 734

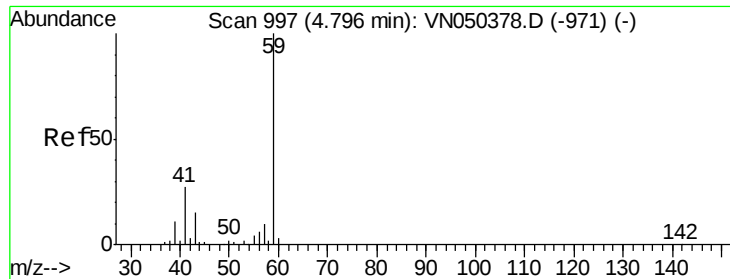
Delta R.T. 0.00 min

Lab File: VN050403.D

Acq: 7 Aug 2018 00:08

Tgt Ion:	142	Resp:	78298
Ion Ratio	Lower	Upper	
142	100		
127	41.8	33.4	50.2
141	14.4	11.6	17.4





#11

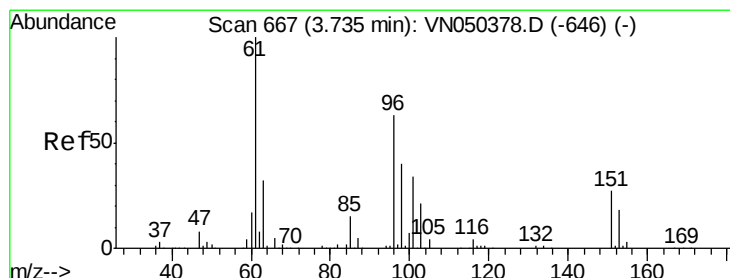
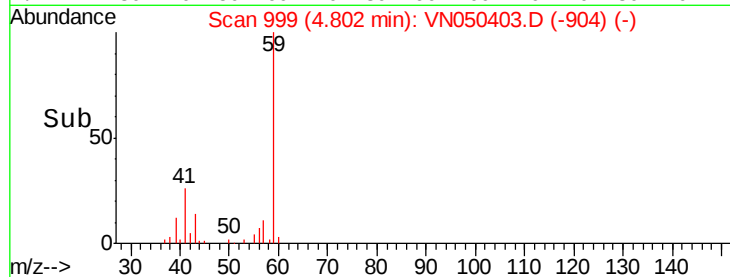
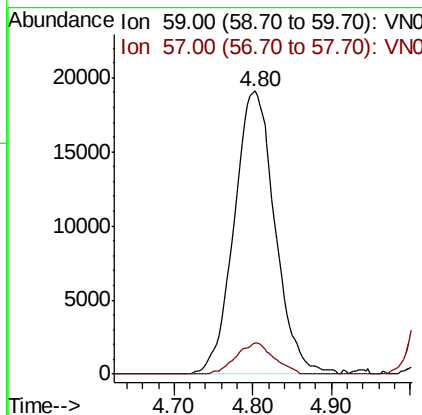
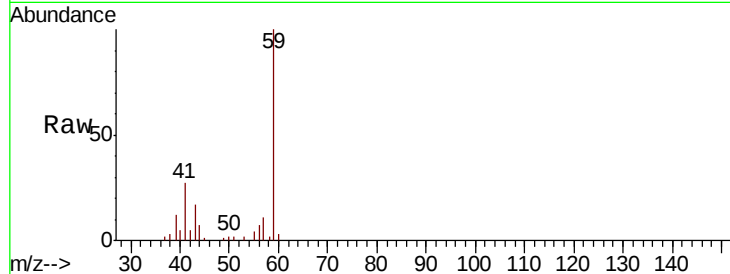
Tert butyl alcohol
 Concen: 103.13 ug/l
 RT: 4.80 min Scan# 999
 Delta R.T. 0.01 min
 Lab File: VN050403.D
 Acq: 7 Aug 2018 00:08

Instrument :
 MSVOA_N
 ClientSampleId :
 VN0806WBSD02

Tot Ion	Ratio	Lower	Upper
59	100		
57	10.2	8.5	12.7

Manual Integrations
 APPROVED

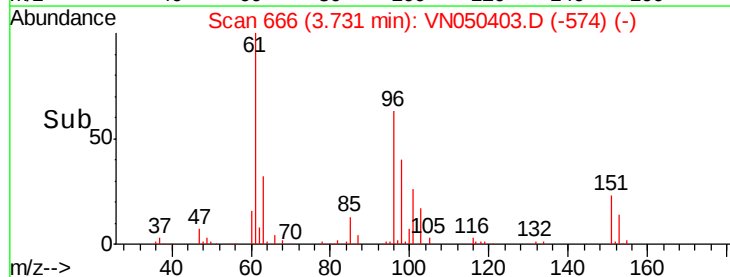
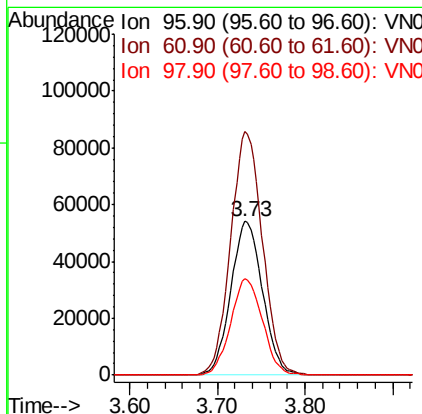
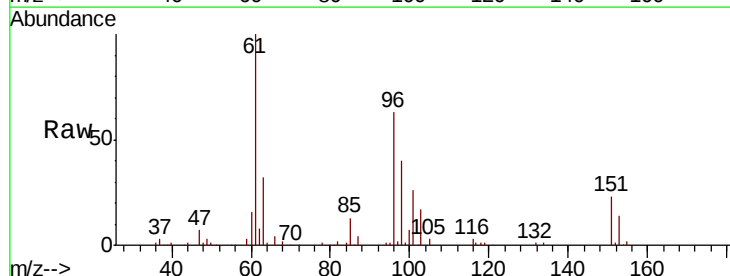
MMDadoda
 8/7/2018 9:59:19 AM

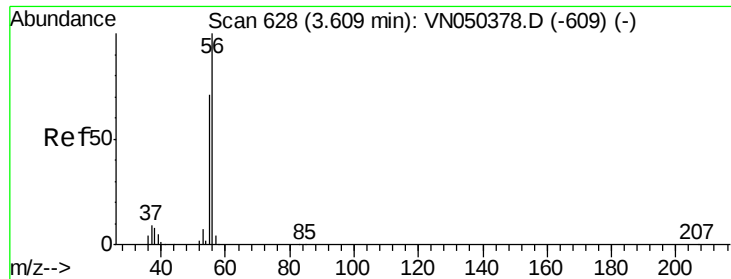


#12

1,1-Dichloroethene
 Concen: 20.10 ug/l
 RT: 3.73 min Scan# 666
 Delta R.T. -0.00 min
 Lab File: VN050403.D
 Acq: 7 Aug 2018 00:08

Tgt Ion	Ratio	Lower	Upper
96	100		
61	158.4	124.4	186.6
98	63.1	48.3	72.5





#13

Acrolein

Concen: 103.64 ug/l

RT: 3.61 min Scan# 628

Delta R.T. 0.00 min

Lab File: VN050403.D

Acq: 7 Aug 2018 00:08

Instrument :

MSVOA_N

ClientSampleId :

VN0806WBSD02

Tot Ion: 56 Resp: 82792

Ion Ratio Lower Upper

56 100

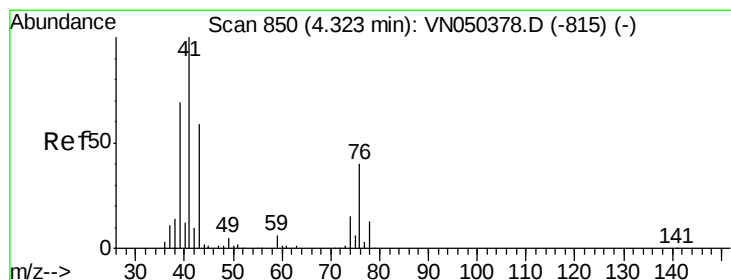
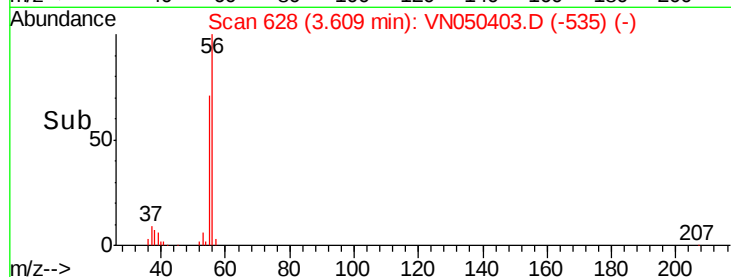
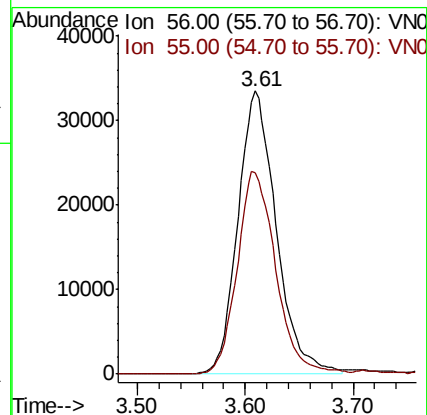
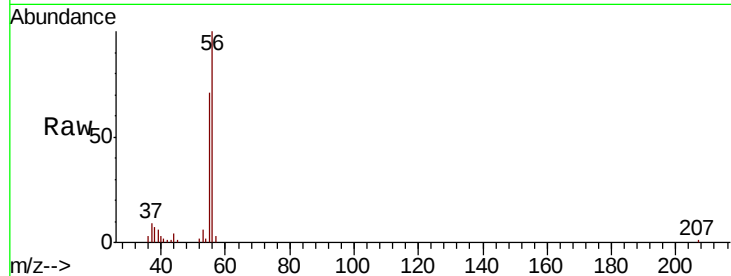
55 72.1 55.8 83.6

Manual Integrations

APPROVED

MMDadoda

8/7/2018 9:59:19 AM



#14

Allyl chloride

Concen: 19.15 ug/l

RT: 4.32 min Scan# 850

Delta R.T. -0.00 min

Lab File: VN050403.D

Acq: 7 Aug 2018 00:08

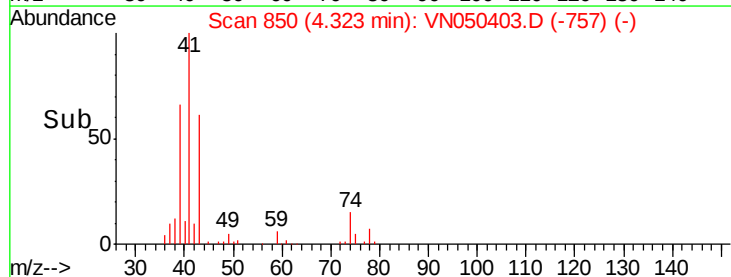
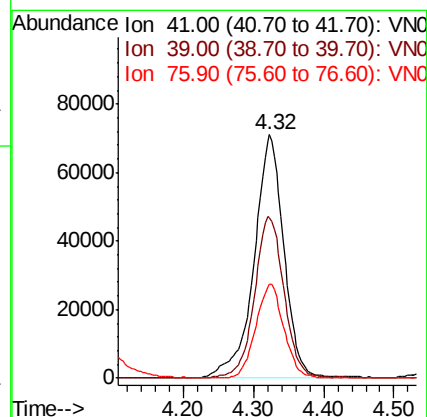
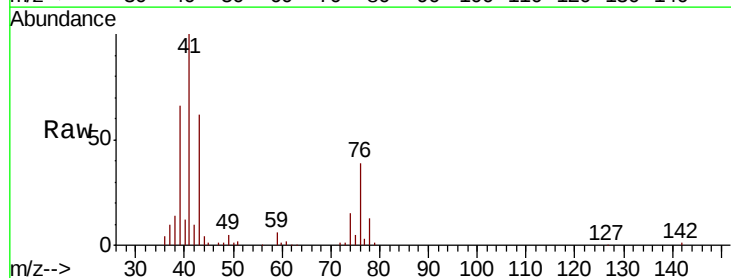
Tgt Ion: 41 Resp: 209134

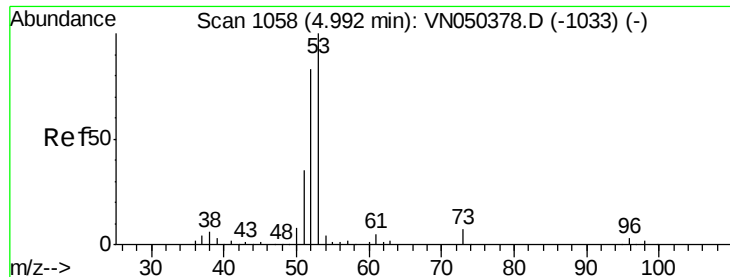
Ion Ratio Lower Upper

41 100

39 65.6 54.2 81.4

76 35.7 29.0 43.6





#15

Acrylonitrile

Concen: 102.11 ug/l

RT: 5.00 min Scan# 1060

Delta R.T. 0.01 min

Lab File: VN050403.D

Acq: 7 Aug 2018 00:08

Instrument :

MSVOA_N

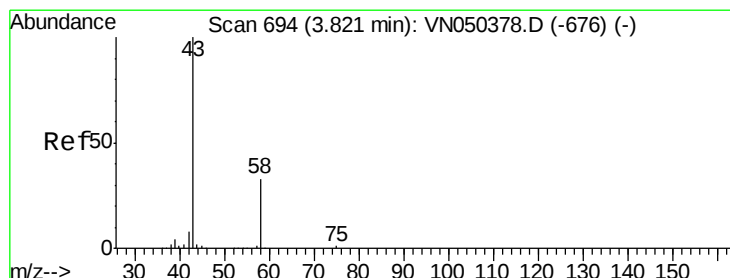
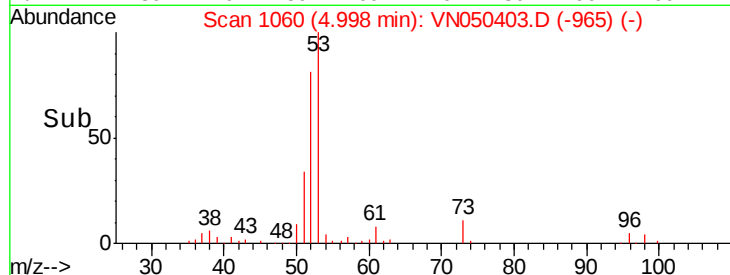
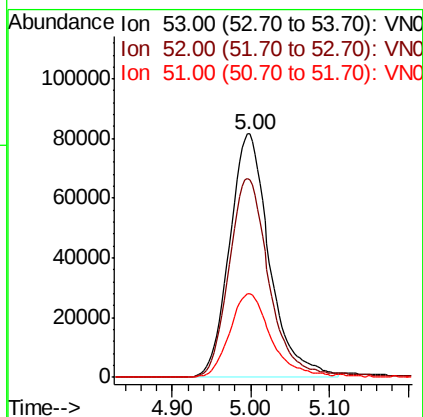
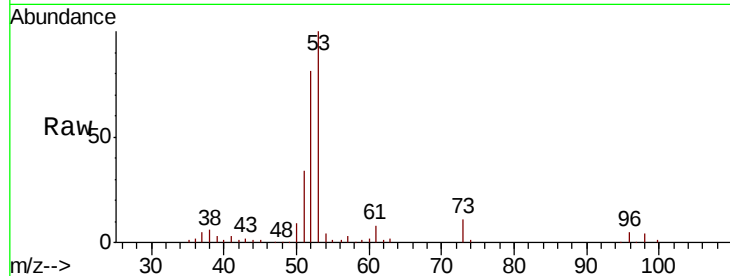
ClientSampleId :

VN0806WBSD02

Tot Ion:	53	Resp:	288692
Ion	Ratio	Lower	Upper
53	100		
52	81.5	66.2	99.2
51	35.7	29.3	43.9

Manual Integrations
APPROVED

MMDadoda
8/7/2018 9:59:19 AM



#16

Acetone

Concen: 107.32 ug/l

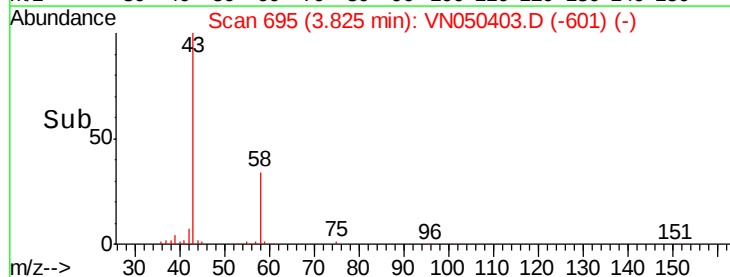
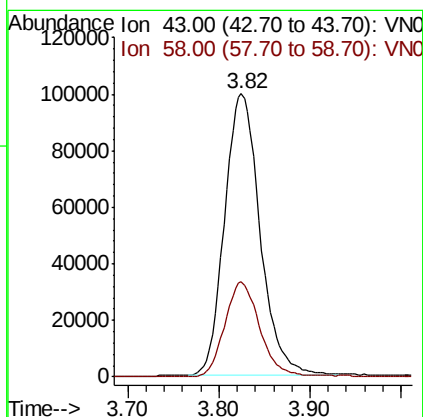
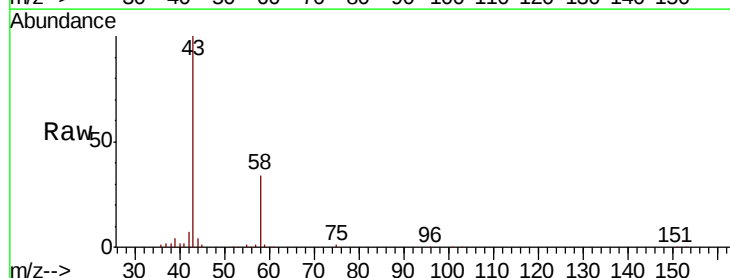
RT: 3.82 min Scan# 695

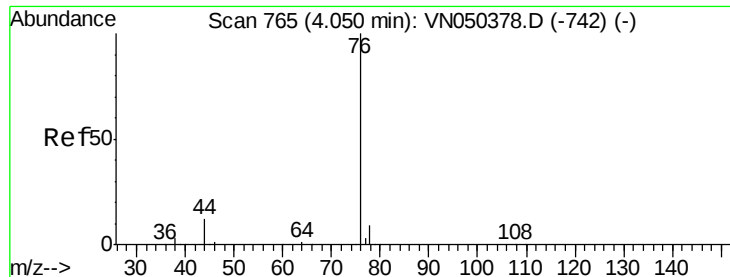
Delta R.T. 0.00 min

Lab File: VN050403.D

Acq: 7 Aug 2018 00:08

Tgt Ion:	43	Resp:	269427
Ion	Ratio	Lower	Upper
43	100		
58	33.6	25.8	38.8





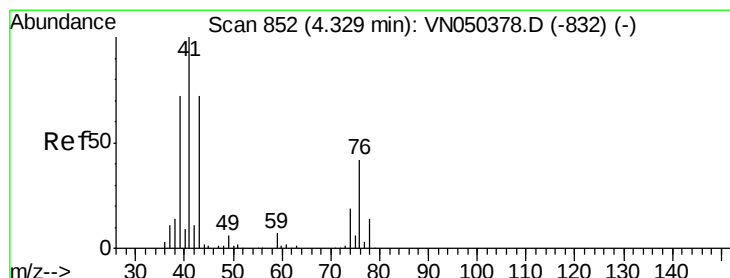
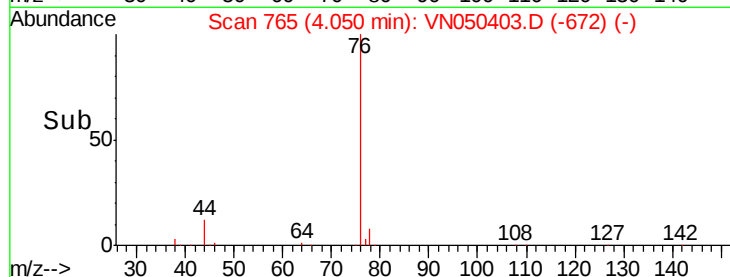
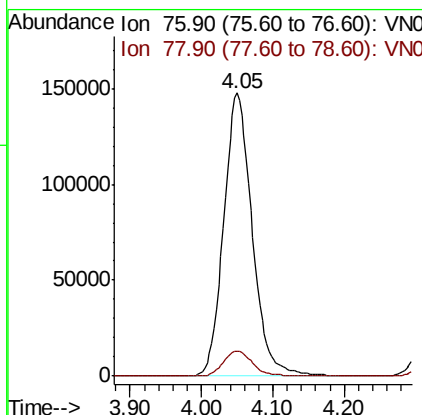
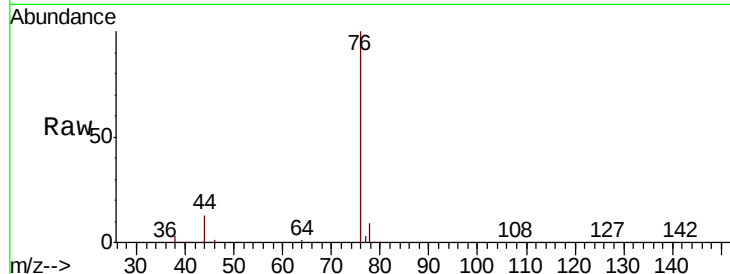
#17
Carbon Disulfide
Concen: 18.55 ug/l
RT: 4.05 min Scan# 765
Delta R.T. -0.00 min
Lab File: VN050403.D
Acq: 7 Aug 2018 00:08

Instrument :
MSVOA_N
ClientSampleId :
VN0806WBSD02

Tot Ion	Ratio	Lower	Upper
76	100		
78	8.9	7.3	10.9

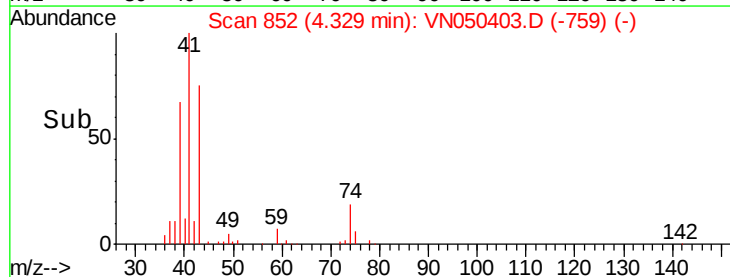
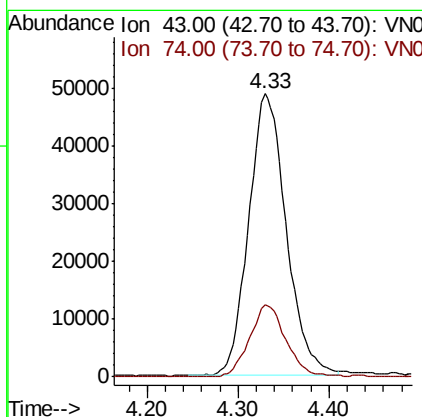
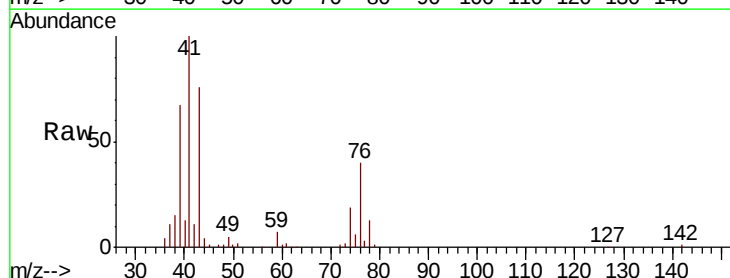
Manual Integrations
APPROVED

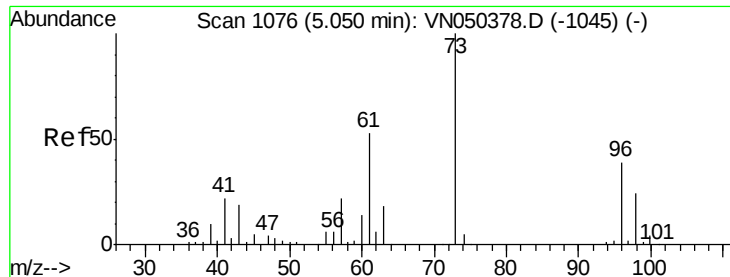
MMDadoda
8/7/2018 9:59:19 AM



#18
Methyl Acetate
Concen: 21.44 ug/l
RT: 4.33 min Scan# 852
Delta R.T. 0.00 min
Lab File: VN050403.D
Acq: 7 Aug 2018 00:08

Tgt Ion	Ratio	Lower	Upper
43	100		
74	24.9	19.2	28.8





#19

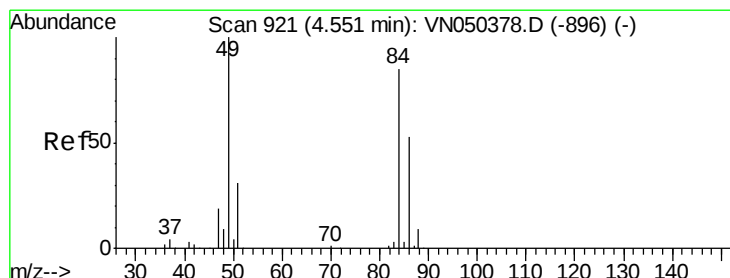
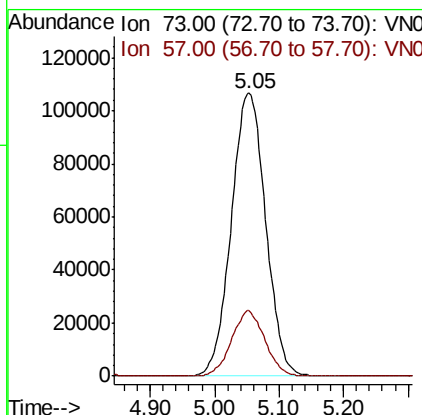
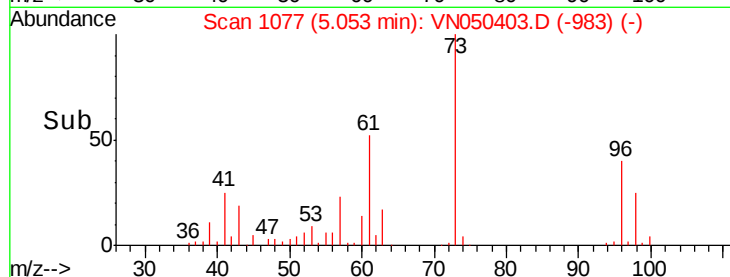
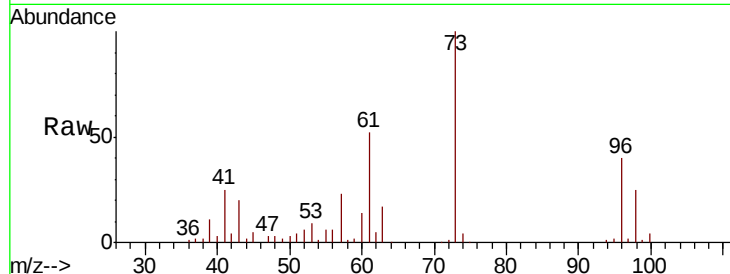
Methyl tert-butyl Ether
 Concen: 20.46 ug/l
 RT: 5.05 min Scan# 1077
 Delta R.T. 0.00 min
 Lab File: VN050403.D
 Acq: 7 Aug 2018 00:08

Instrument :
 MSVOA_N
 ClientSampleId :
 VN0806WBSD02

Tot Ion	Ratio	Lower	Upper
73	100		
57	23.4	18.0	27.0

Manual Integrations
 APPROVED

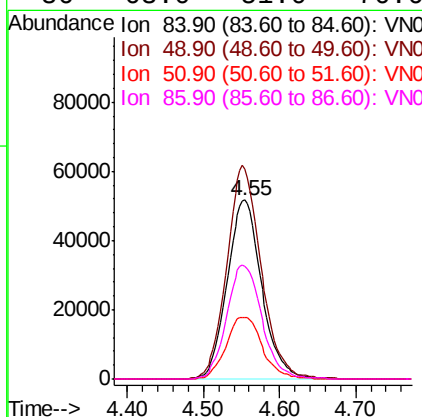
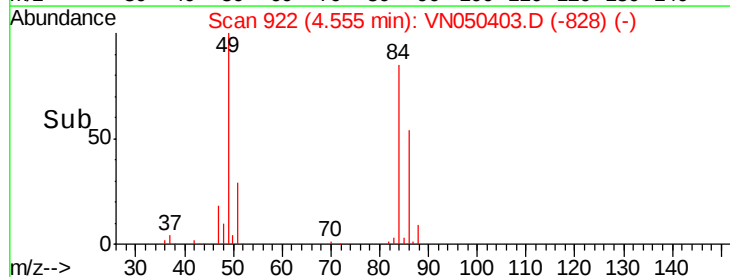
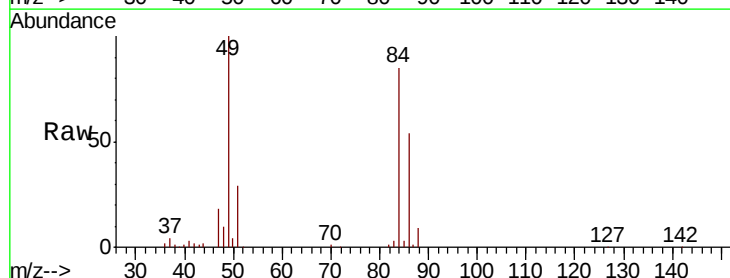
MMDadoda
 8/7/2018 9:59:19 AM

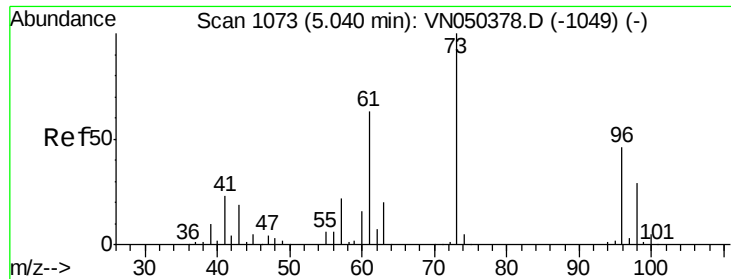


#20

Methylene Chloride
 Concen: 20.37 ug/l
 RT: 4.55 min Scan# 922
 Delta R.T. 0.00 min
 Lab File: VN050403.D
 Acq: 7 Aug 2018 00:08

Tgt Ion	Ratio	Lower	Upper
84	100		
49	117.2	94.8	142.2
51	34.3	28.3	42.5
86	63.0	51.0	76.6





#21

trans-1,2-Dichloroethene

Concen: 20.28 ug/l

RT: 5.04 min Scan# 1074

Delta R.T. 0.00 min

Lab File: VN050403.D

Acq: 7 Aug 2018 00:08

Instrument :

MSVOA_N

ClientSampleId :

VN0806WBSD02

Tot Ion: 96 Resp: 149205

Ion Ratio Lower Upper

96 100

61 135.4 110.7 166.1

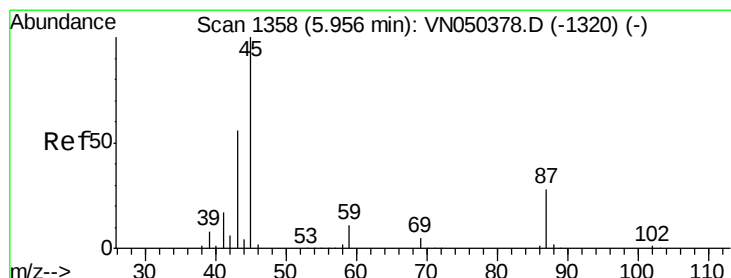
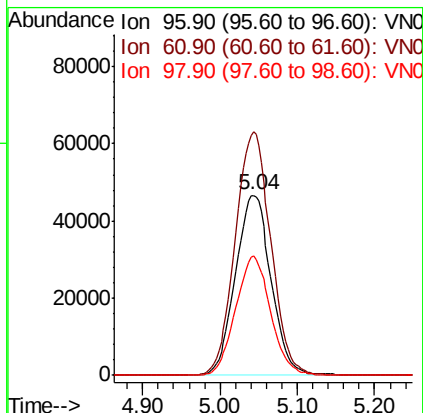
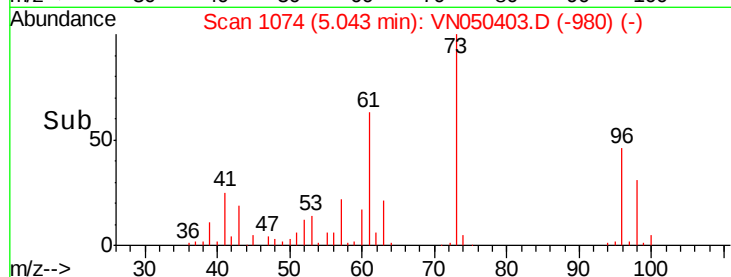
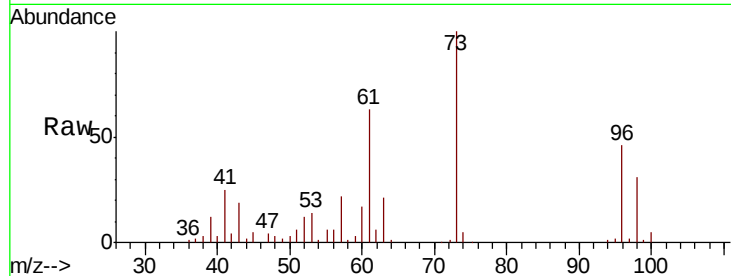
98 66.3 51.6 77.4

Manual Integrations

APPROVED

MMDadoda

8/7/2018 9:59:19 AM



#22

Diisopropyl ether

Concen: 21.29 ug/l

RT: 5.96 min Scan# 1359

Delta R.T. 0.00 min

Lab File: VN050403.D

Acq: 7 Aug 2018 00:08

Tgt Ion: 45 Resp: 474945

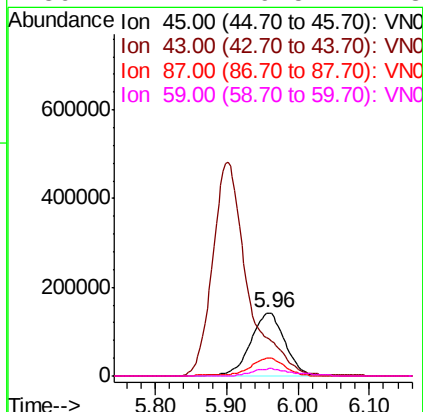
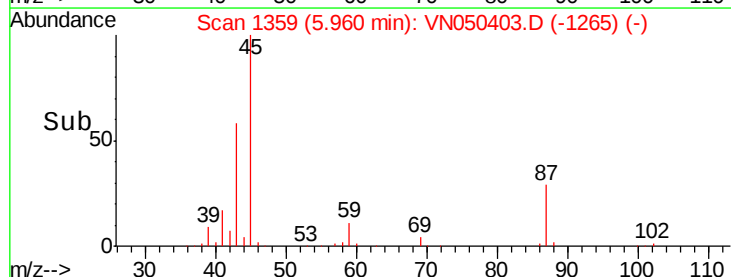
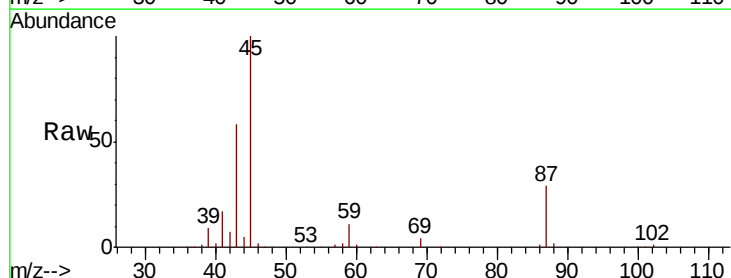
Ion Ratio Lower Upper

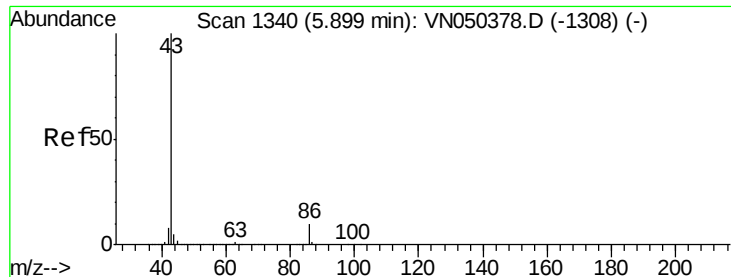
45 100

43 55.8 45.7 68.5

87 28.5 22.7 34.1

59 11.2 9.5 14.3





#23

Vinyl Acetate

Concen: 103.56 ug/l

RT: 5.90 min Scan# 1341

Delta R.T. 0.00 min

Lab File: VN050403.D

Acq: 7 Aug 2018 00:08

Instrument :

MSVOA_N

ClientSampleId :

VN0806WBSD02

Tot Ion: 43 Resp: 1648028

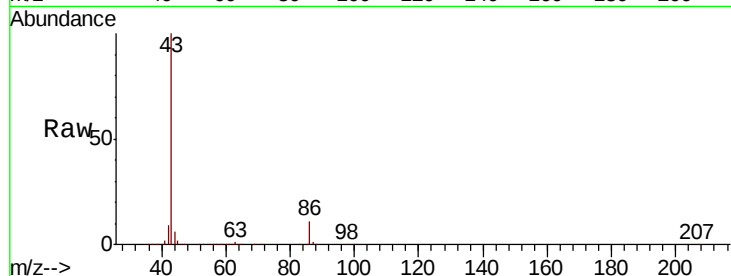
Ion Ratio Lower Upper

43 100

86 10.6 8.6 13.0

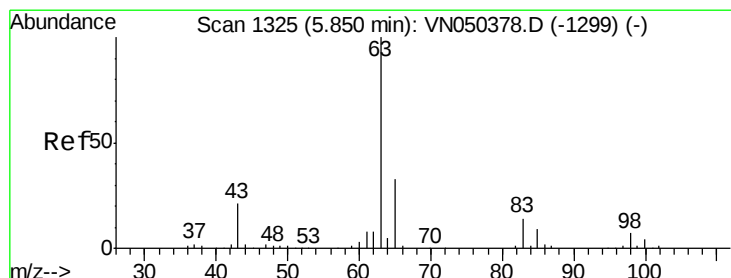
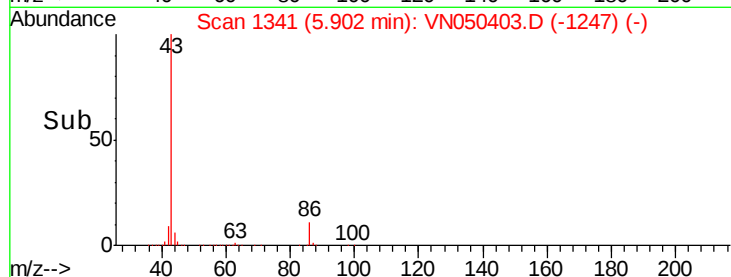
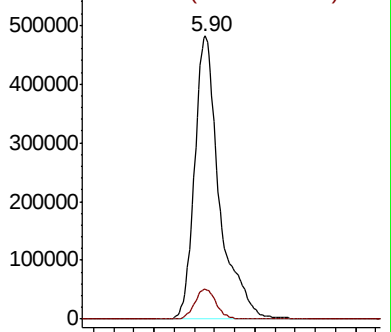
Manual Integrations
APPROVED

MMDadoda
8/7/2018 9:59:19 AM



Abundance Ion 43.00 (42.70 to 43.70): VN0

Ion 86.00 (85.70 to 86.70): VN0



#24

1,1-Dichloroethane

Concen: 20.56 ug/l

RT: 5.85 min Scan# 1326

Delta R.T. 0.00 min

Lab File: VN050403.D

Acq: 7 Aug 2018 00:08

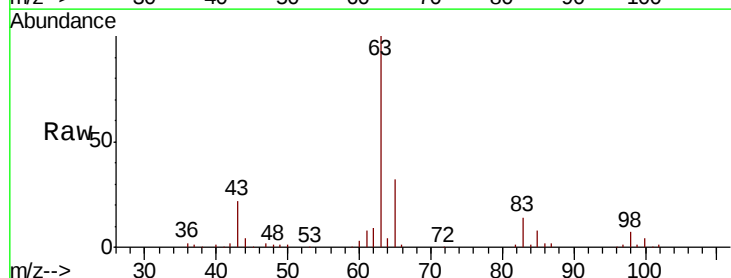
Tgt Ion: 63 Resp: 281353

Ion Ratio Lower Upper

63 100

98 6.5 3.3 9.8

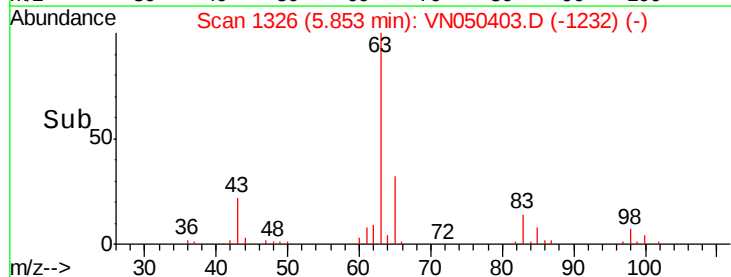
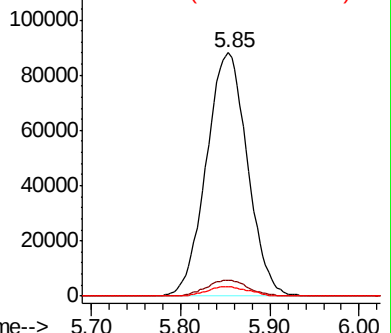
100 3.8 2.1 6.3

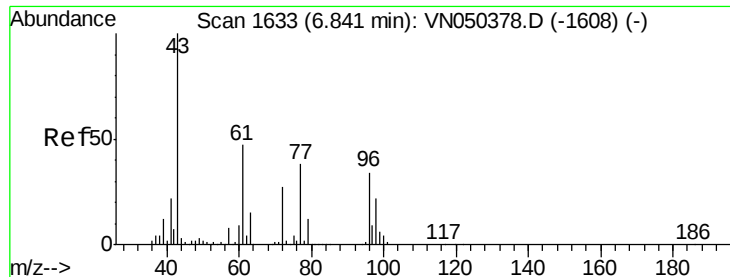


Abundance Ion 62.90 (62.60 to 63.60): VN0

Ion 97.90 (97.60 to 98.60): VN0

Ion 99.90 (99.60 to 100.60): VN0





#25

2-Butanone

Concen: 104.88 ug/l

RT: 6.84 min Scan# 1634

Delta R.T. 0.00 min

Lab File: VN050403.D

Acq: 7 Aug 2018 00:08

Instrument :

MSVOA_N

ClientSampleId :

VN0806WBSD02

Tot Ion: 43 Resp: 436670

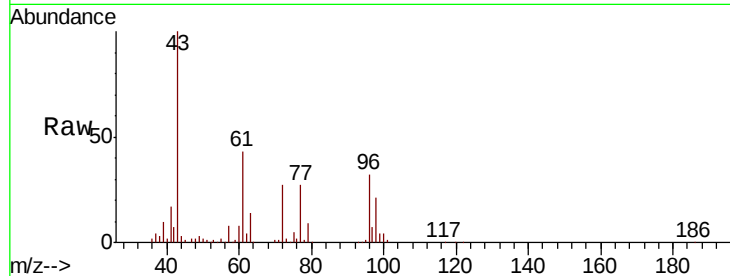
Ion Ratio Lower Upper

43 100

72 27.2 21.5 32.3

Manual Integrations
APPROVED

MMDadoda
8/7/2018 9:59:19 AM



Abundance Ion 43.00 (42.70 to 43.70): VN0

Ion 72.00 (71.70 to 72.70): VN0

150000

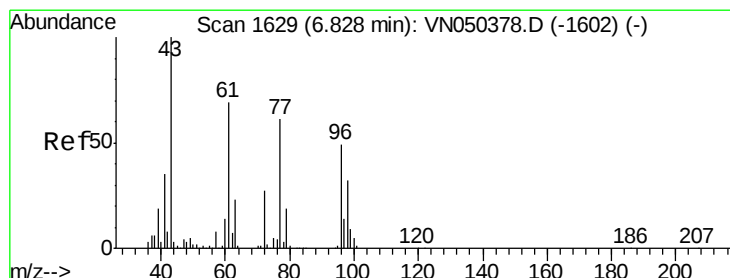
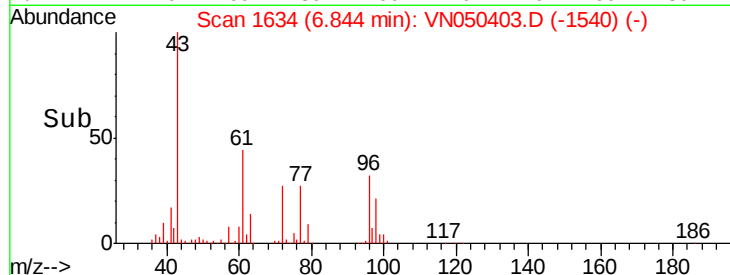
100000

50000

0

6.75 6.80 6.85 6.90

Time-->



#26

2,2-Dichloropropane

Concen: 15.23 ug/l

RT: 6.83 min Scan# 1629

Delta R.T. -0.00 min

Lab File: VN050403.D

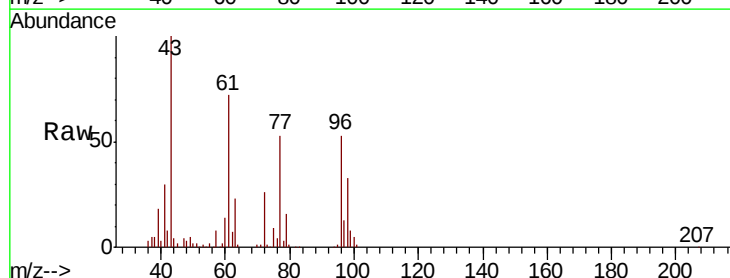
Acq: 7 Aug 2018 00:08

Tgt Ion: 77 Resp: 171850

Ion Ratio Lower Upper

77 100

97 25.0 11.8 35.3



Abundance Ion 76.90 (76.60 to 77.60): VN0

Ion 96.90 (96.60 to 97.60): VN0

60000

50000

40000

30000

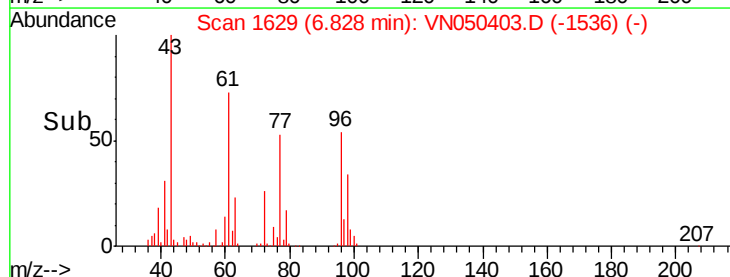
20000

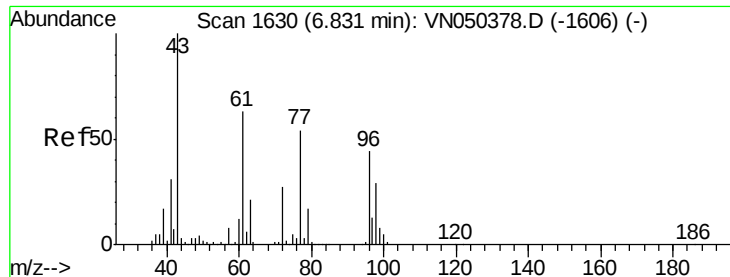
10000

0

6.70 6.80 6.90

Time-->





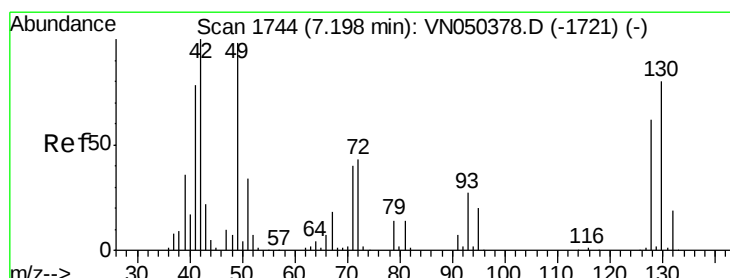
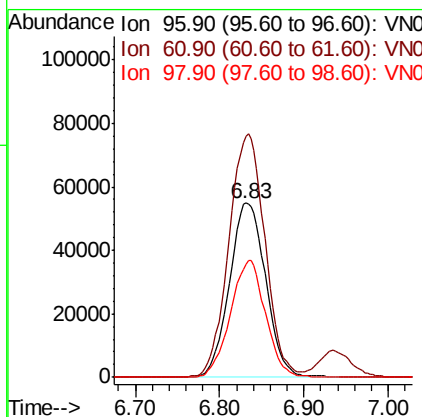
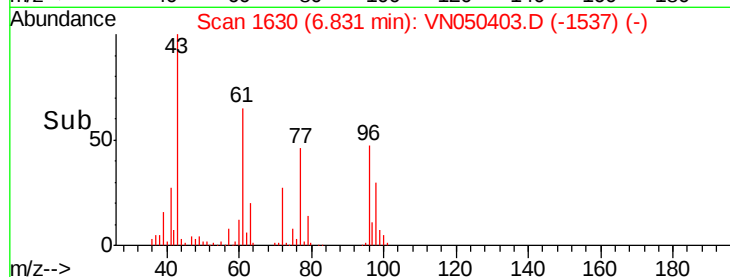
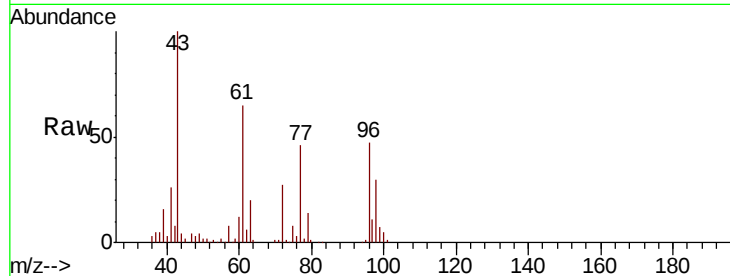
#27
 cis-1,2-Dichloroethene
 Concen: 20.13 ug/l
 RT: 6.83 min Scan# 1630
 Delta R.T. -0.00 min
 Lab File: VN050403.D
 Acq: 7 Aug 2018 00:08

Instrument :
 MSVOA_N
 ClientSampleId :
 VN0806WBSD02

Tot Ion	Ratio	Lower	Upper
96	100		
61	139.2	0.0	285.0
98	64.8	0.0	129.2

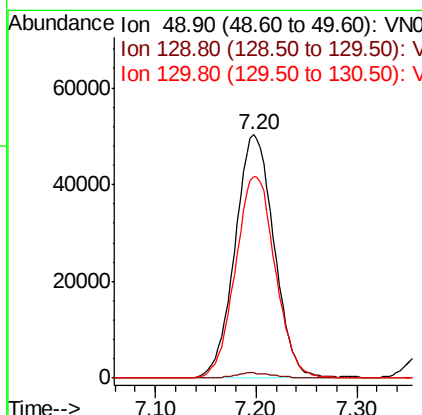
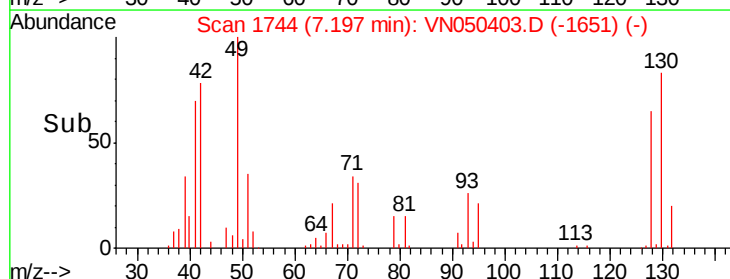
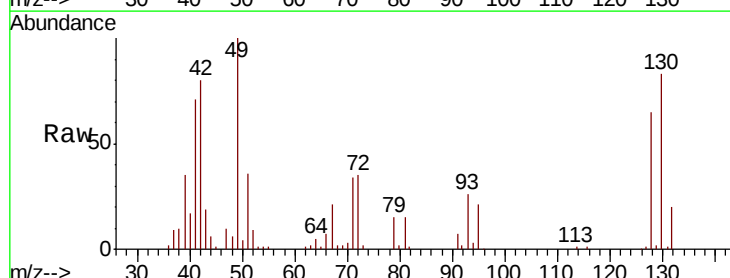
Manual Integrations
 APPROVED

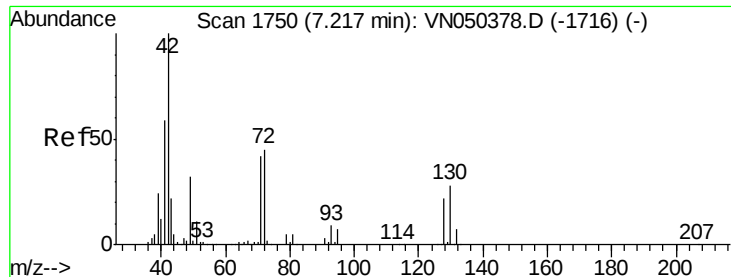
MMDadoda
 8/7/2018 9:59:19 AM



#28
 Bromochloromethane
 Concen: 21.44 ug/l
 RT: 7.20 min Scan# 1744
 Delta R.T. -0.00 min
 Lab File: VN050403.D
 Acq: 7 Aug 2018 00:08

Tgt Ion	Ratio	Lower	Upper
49	100		
129	2.1	0.0	4.0
130	84.6	66.3	99.5





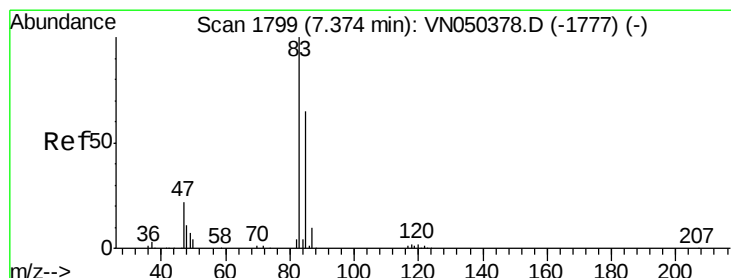
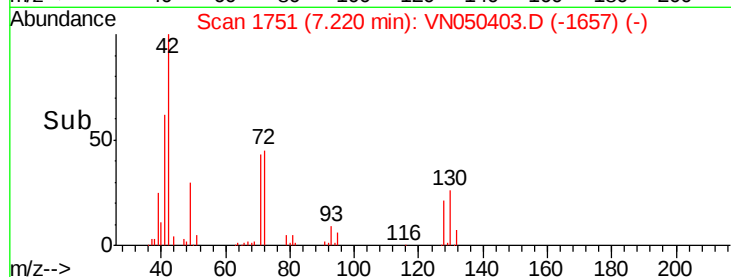
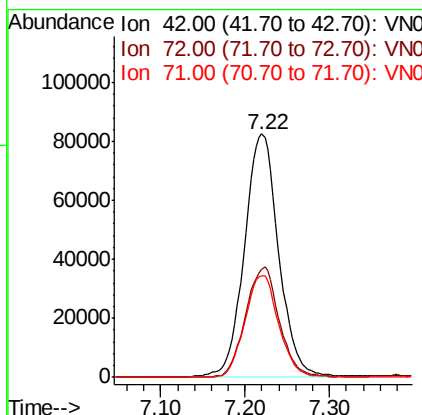
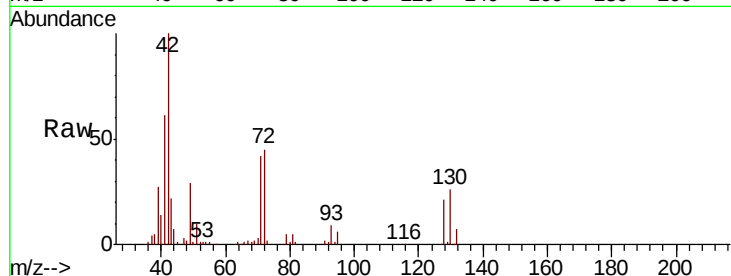
#29
Tetrahydrofuran
Concen: 103.45 ug/l
RT: 7.22 min Scan# 1751
Delta R.T. 0.00 min
Lab File: VN050403.D
Acq: 7 Aug 2018 00:08

Instrument :
MSVOA_N
ClientSampleId :
VN0806WBSD02

Tot Ion	Ratio	Lower	Upper
42	100		
72	45.2	35.9	53.9
71	41.9	33.7	50.5

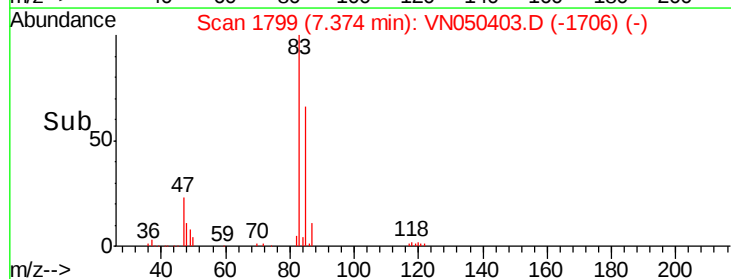
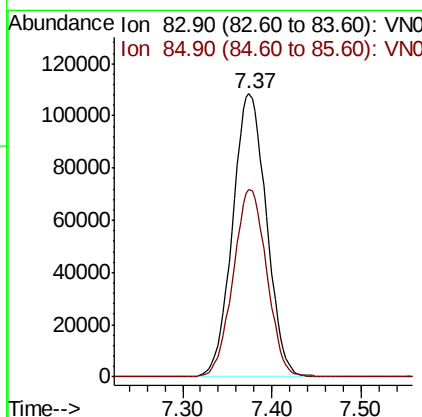
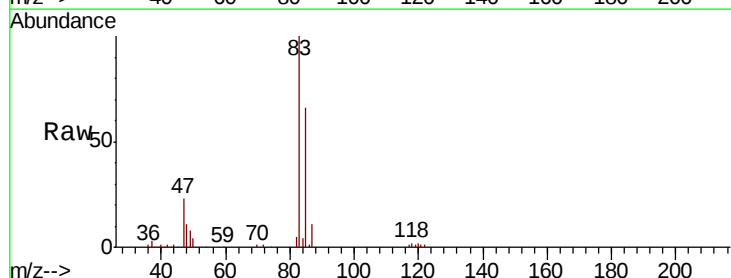
Manual Integrations
APPROVED

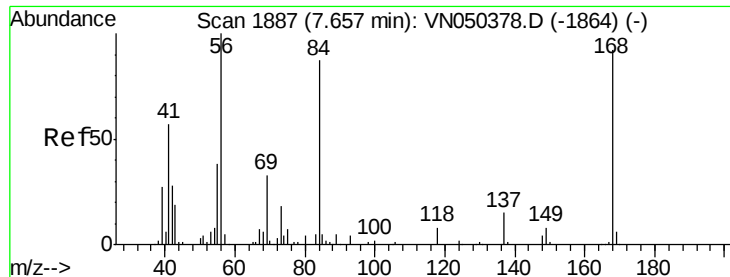
MMDadoda
8/7/2018 9:59:19 AM



#30
Chloroform
Concen: 20.84 ug/l
RT: 7.37 min Scan# 1799
Delta R.T. -0.00 min
Lab File: VN050403.D
Acq: 7 Aug 2018 00:08

Tgt Ion	Ratio	Lower	Upper
83	100		
85	66.3	52.5	78.7





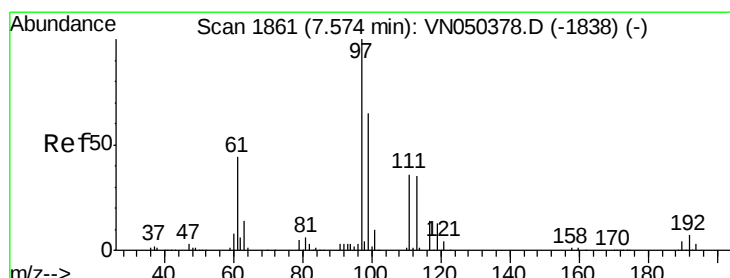
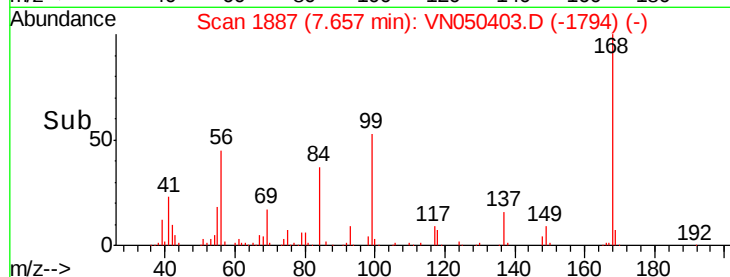
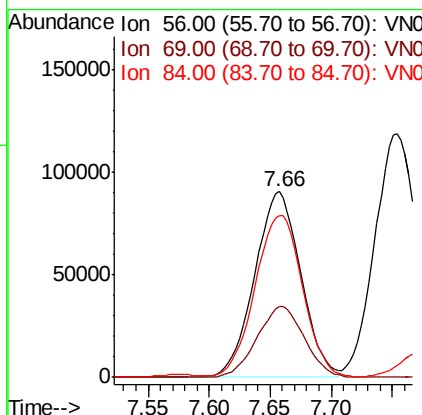
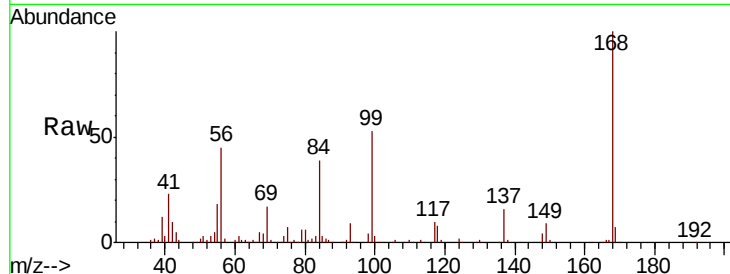
#31
Cyclohexane
Concen: 19.39 ug/l
RT: 7.66 min Scan# 1887
Delta R.T. 0.00 min
Lab File: VN050403.D
Acq: 7 Aug 2018 00:08

Instrument :
MSVOA_N
ClientSampleId :
VN0806WBSD02

Tot Ion	Ratio	Lower	Upper
56	100		
69	38.1	26.2	39.4
84	85.7	67.4	101.0

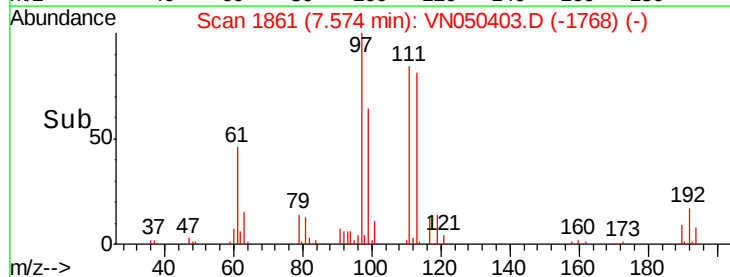
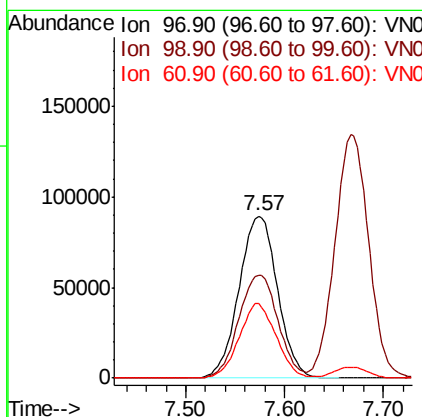
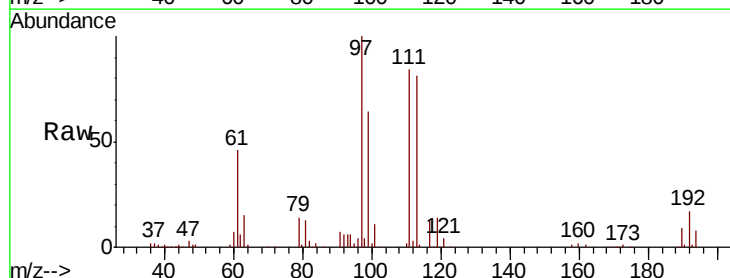
Manual Integrations
APPROVED

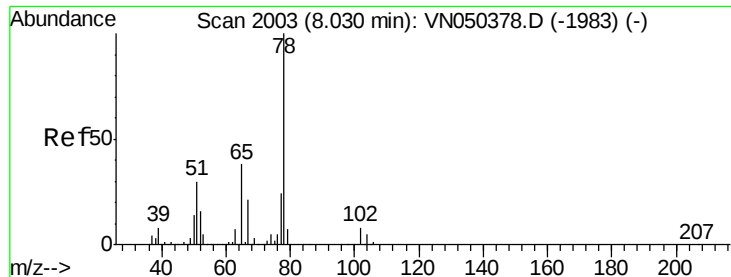
MMDadoda
8/7/2018 9:59:19 AM



#32
1,1,1-Trichloroethane
Concen: 20.51 ug/l
RT: 7.57 min Scan# 1861
Delta R.T. -0.00 min
Lab File: VN050403.D
Acq: 7 Aug 2018 00:08

Tgt Ion	Ratio	Lower	Upper
97	100		
99	65.0	51.4	77.0
61	44.2	35.4	53.0





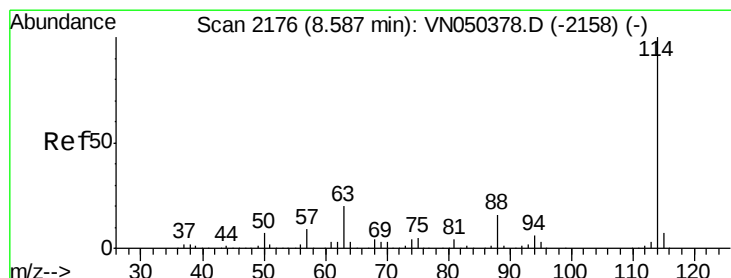
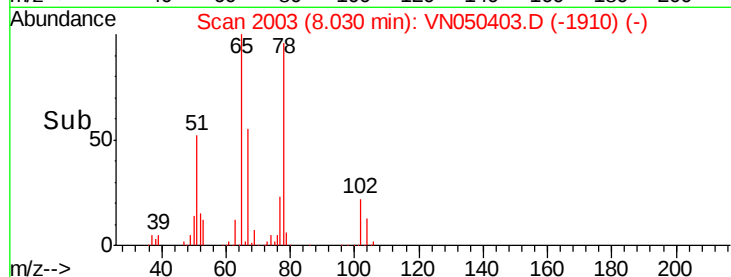
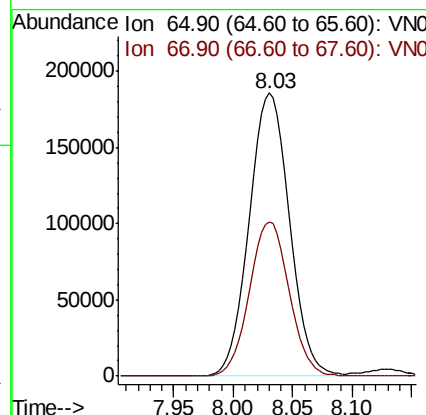
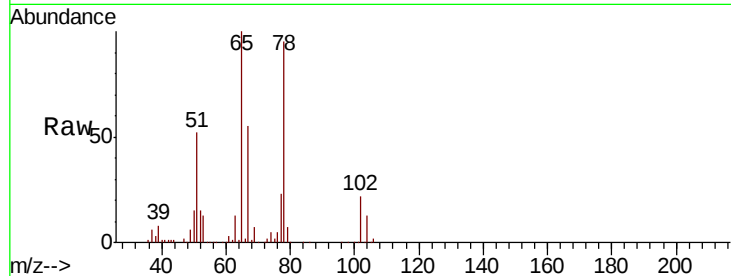
#33
 1,2-Dichloroethane-d4
 Concen: 51.97 ug/l
 RT: 8.03 min Scan# 2003
 Delta R.T. -0.00 min
 Lab File: VN050403.D
 Acq: 7 Aug 2018 00:08

Instrument :
 MSVOA_N
 ClientSampleId :
 VN0806WBSD02

Tot Ion	Ratio	Resp	Lower	Upper
65	100			
67	53.9	0.0	108.4	

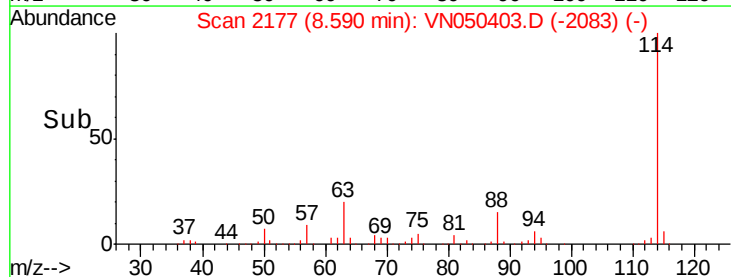
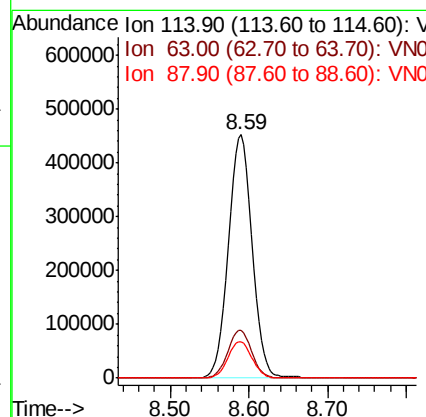
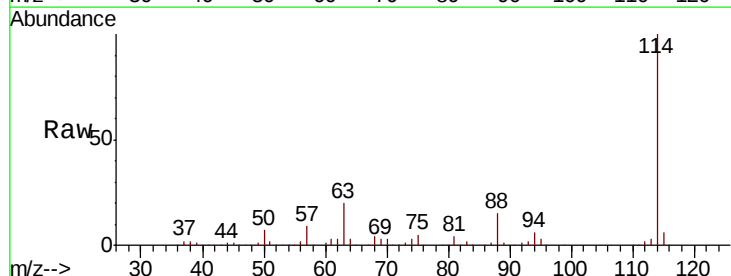
Manual Integrations
 APPROVED

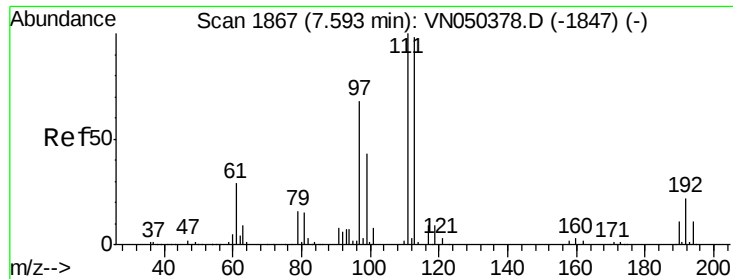
MMDadoda
 8/7/2018 9:59:19 AM



#34
 1,4-Difluorobenzene
 Concen: 50.00 ug/l
 RT: 8.59 min Scan# 2177
 Delta R.T. 0.00 min
 Lab File: VN050403.D
 Acq: 7 Aug 2018 00:08

Tgt Ion	Ratio	Resp	Lower	Upper
114	100			
63	19.5	0.0	40.0	
88	15.0	0.0	31.2	





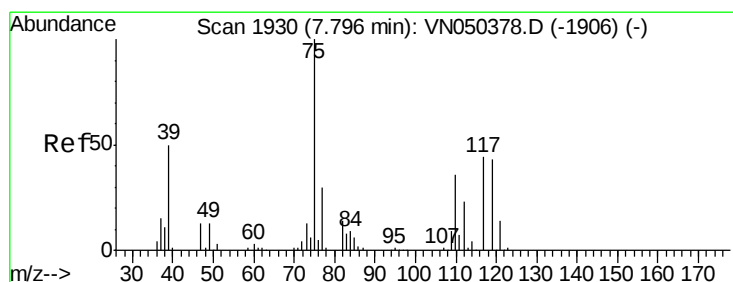
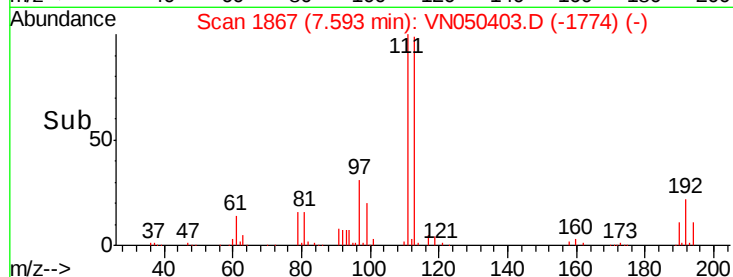
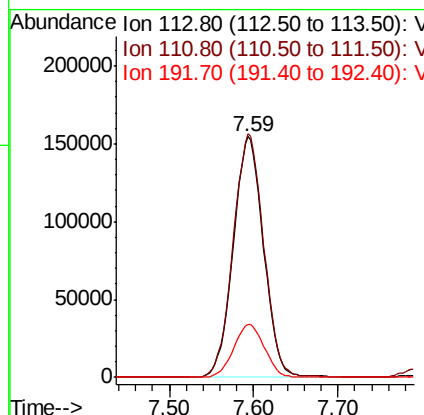
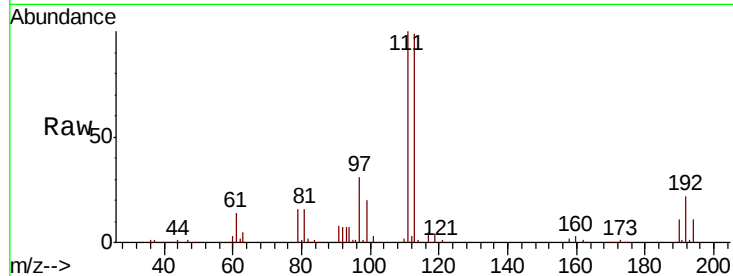
#35
 Dibromofluoromethane
 Concen: 51.04 ug/l
 RT: 7.59 min Scan# 1867
 Delta R.T. -0.00 min
 Lab File: VN050403.D
 Acq: 7 Aug 2018 00:08

Instrument :
 MSVOA_N
 ClientSampleId :
 VN0806WBSD02

Tot Ion	Ratio	Resp	Lower	Upper
113	100			
111	101.7	80.7	121.1	
192	22.3	17.8	26.6	

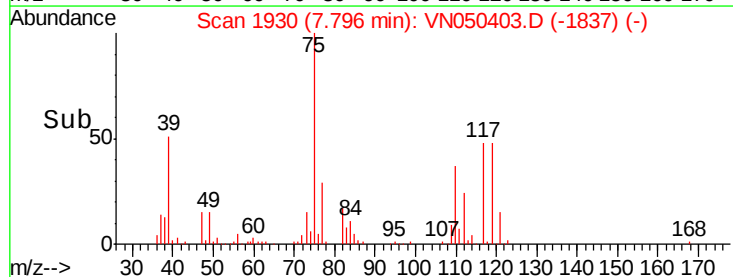
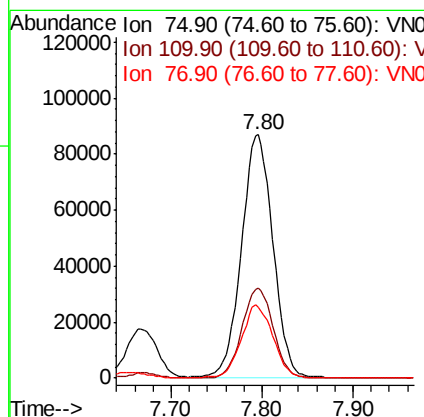
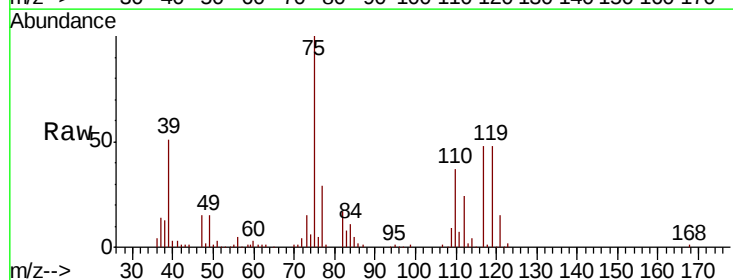
Manual Integrations
 APPROVED

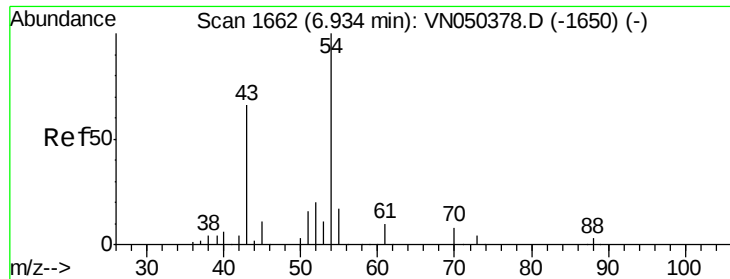
MMDadoda
 8/7/2018 9:59:19 AM



#36
 1,1-Dichloropropene
 Concen: 20.16 ug/l
 RT: 7.80 min Scan# 1930
 Delta R.T. -0.00 min
 Lab File: VN050403.D
 Acq: 7 Aug 2018 00:08

Tgt Ion	Ratio	Resp	Lower	Upper
75	100			
110	36.7	18.4	55.2	
77	30.4	25.3	37.9	





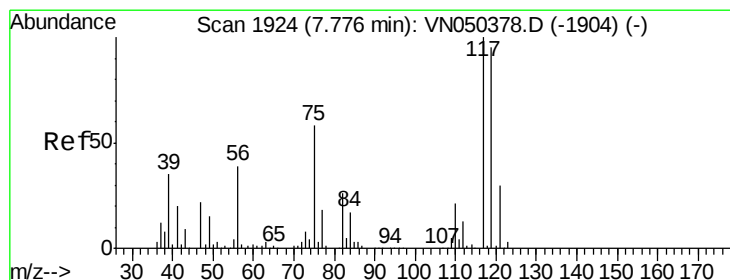
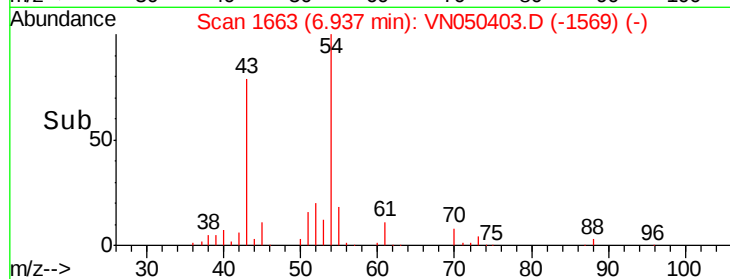
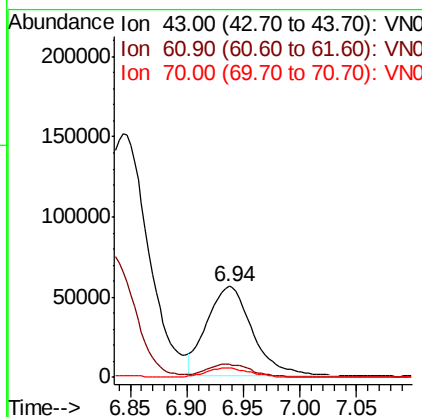
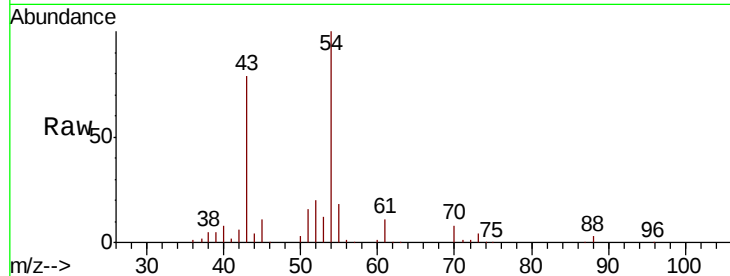
#37
Ethyl Acetate
Concen: 21.10 ug/l
RT: 6.94 min Scan# 1663
Delta R.T. 0.00 min
Lab File: VN050403.D
Acq: 7 Aug 2018 00:08

Instrument :
MSVOA_N
ClientSampleId :
VN0806WBSD02

Tot Ion	43	61	70
Resp	156973		
Ratio	100	15.0	10.6
Lower		11.8	8.4
Upper		17.8	12.6

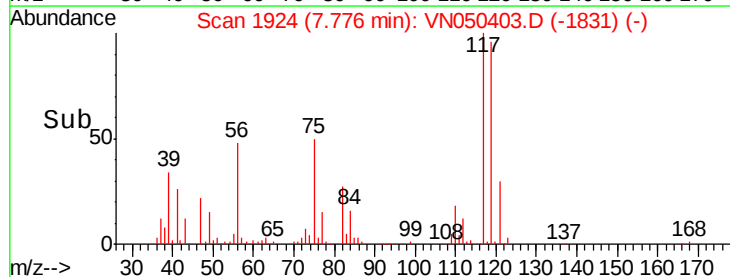
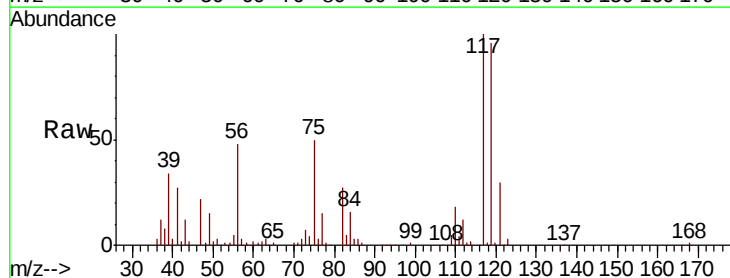
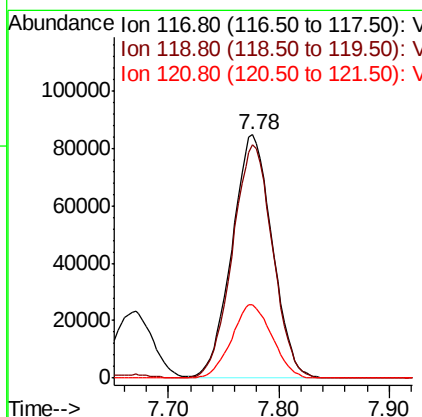
Manual Integrations
APPROVED

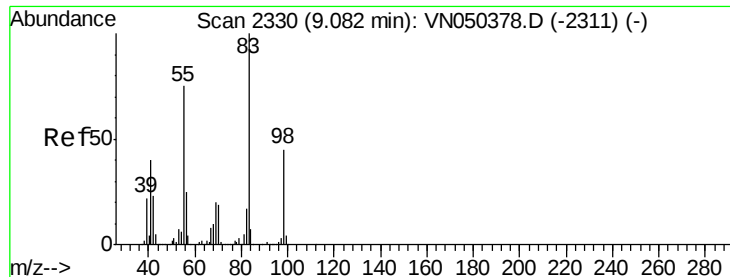
MMDadoda
8/7/2018 9:59:19 AM



#38
Carbon Tetrachloride
Concen: 19.90 ug/l
RT: 7.78 min Scan# 1924
Delta R.T. -0.00 min
Lab File: VN050403.D
Acq: 7 Aug 2018 00:08

Tgt Ion	117	119	121
Resp	214511		
Ratio	100	95.7	29.9
Lower		77.4	23.9
Upper		116.0	35.9





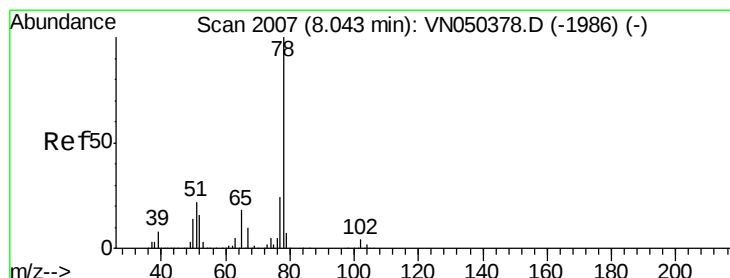
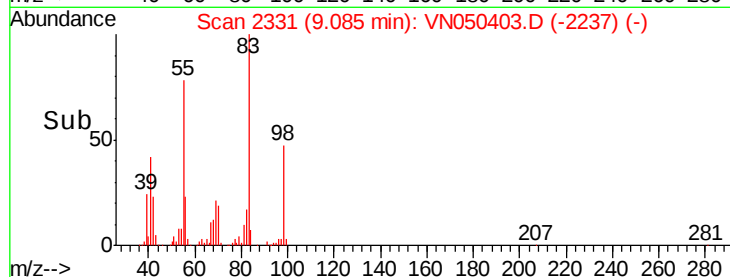
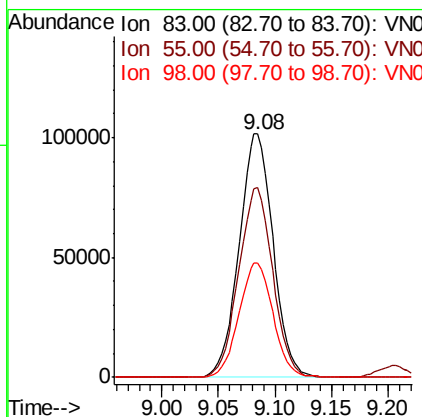
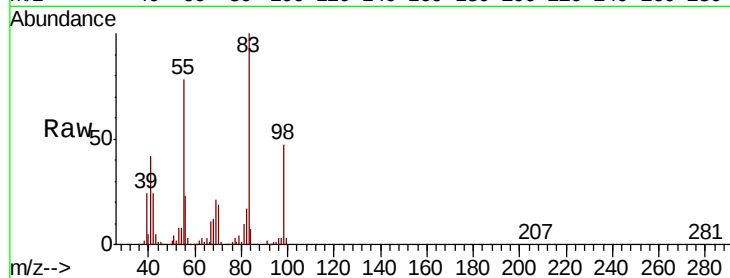
#39
Methvlcvclohexane
Concen: 18.80 ug/l
RT: 9.08 min Scan# 2331
Delta R.T. 0.00 min
Lab File: VN050403.D
Acq: 7 Aug 2018 00:08

Instrument :
MSVOA_N
ClientSampleId :
VN0806WBSD02

Tot Ion	Ratio	Lower	Upper
83	100		
55	78.1	61.8	92.8
98	47.1	36.5	54.7

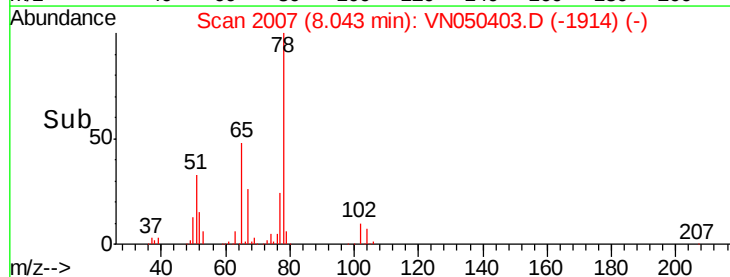
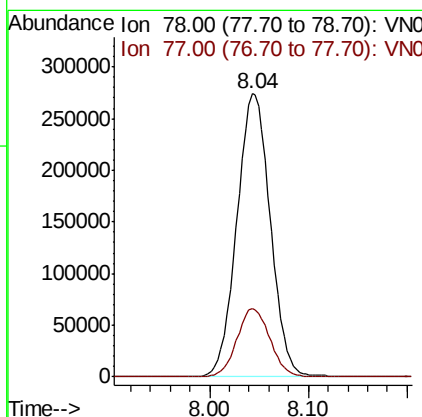
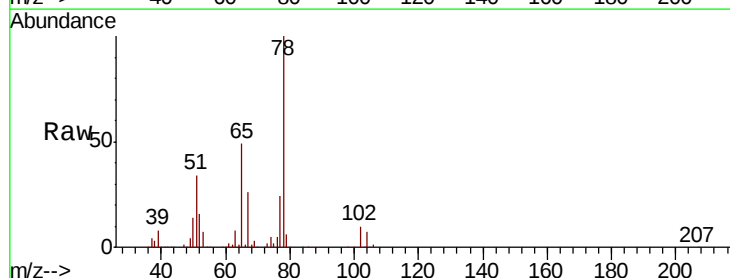
Manual Integrations
APPROVED

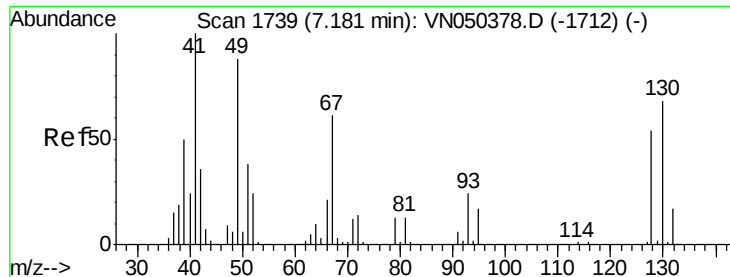
MMDadoda
8/7/2018 9:59:19 AM



#40
Benzene
Concen: 20.25 ug/l
RT: 8.04 min Scan# 2007
Delta R.T. -0.00 min
Lab File: VN050403.D
Acq: 7 Aug 2018 00:08

Tgt Ion	Ratio	Lower	Upper
78	100		
77	24.4	18.7	28.1





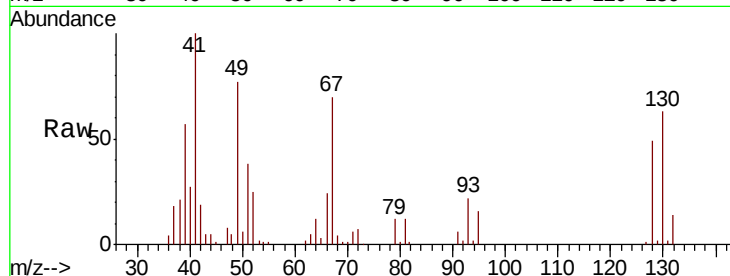
#41
Methacrylonitrile
Concen: 18.97 ug/l
RT: 7.18 min Scan# 1738
Delta R.T. -0.00 min
Lab File: VN050403.D
Acq: 7 Aug 2018 00:08

Instrument :
MSVOA_N
ClientSampleId :
VN0806WBSD02

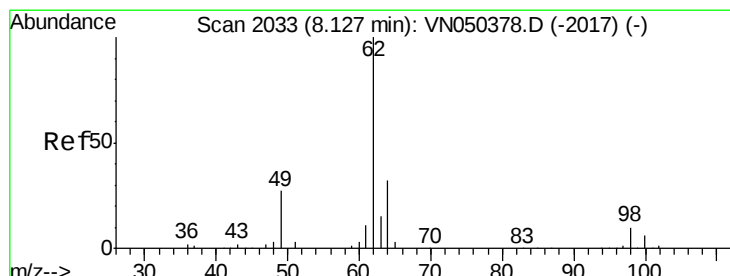
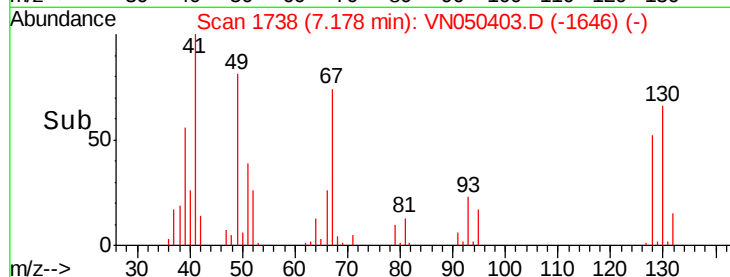
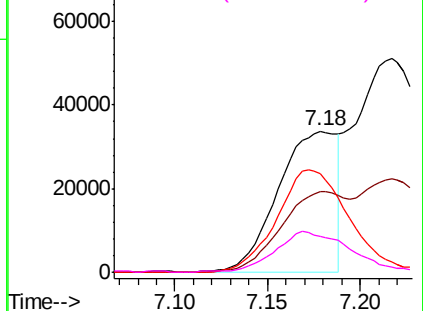
Tot Ion	Ratio	Lower	Upper
41	100		
39	63.4	55.8	83.6
67	88.4	84.3	126.5
52	37.3	34.2	51.2

Manual Integrations
APPROVED

MMDadoda
8/7/2018 9:59:19 AM

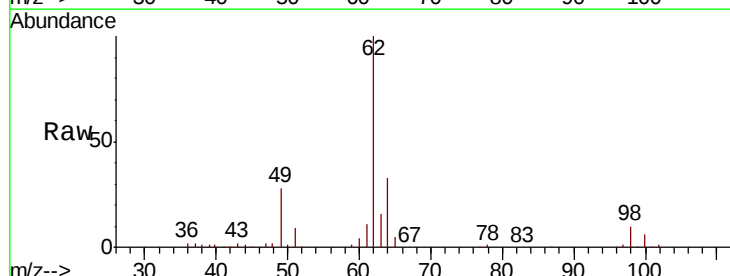


Abundance Ion 41.00 (40.70 to 41.70): VNO
Ion 39.00 (38.70 to 39.70): VNO
Ion 67.00 (66.70 to 67.70): VNO
Ion 52.00 (51.70 to 52.70): VNO

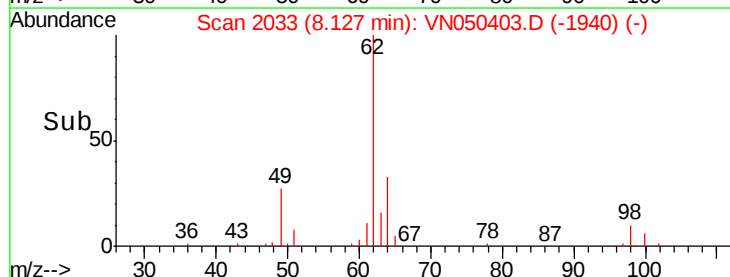
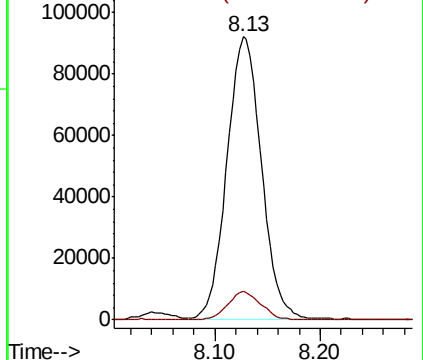


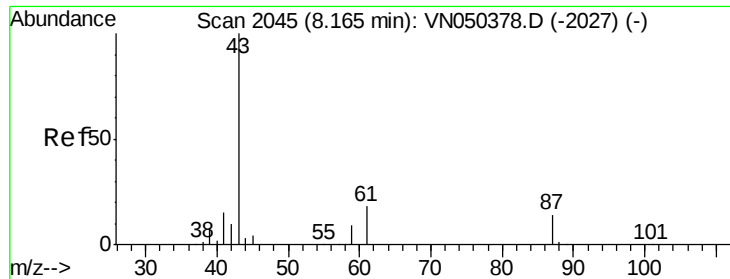
#42
1,2-Dichloroethane
Concen: 20.64 ug/l
RT: 8.13 min Scan# 2033
Delta R.T. -0.00 min
Lab File: VN050403.D
Acq: 7 Aug 2018 00:08

Tgt Ion	Ratio	Lower	Upper
62	100		
98	9.8	0.0	18.8



Abundance Ion 61.90 (61.60 to 62.60): VNO
Ion 97.90 (97.60 to 98.60): VNO





#43

Isopropyl Acetate

Concen: 21.76 ug/l

RT: 8.17 min Scan# 2046

Delta R.T. 0.00 min

Lab File: VN050403.D

Acq: 7 Aug 2018 00:08

Instrument :

MSVOA_N

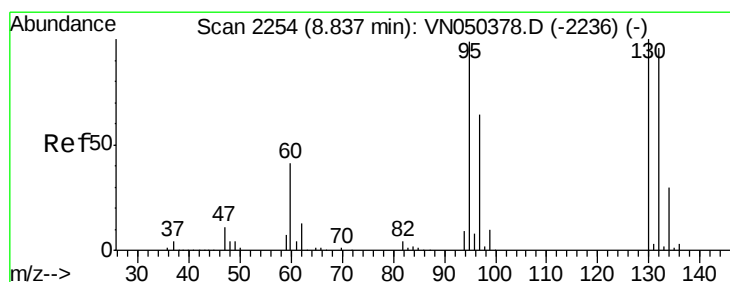
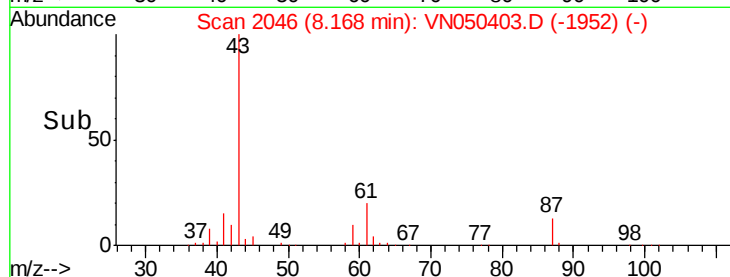
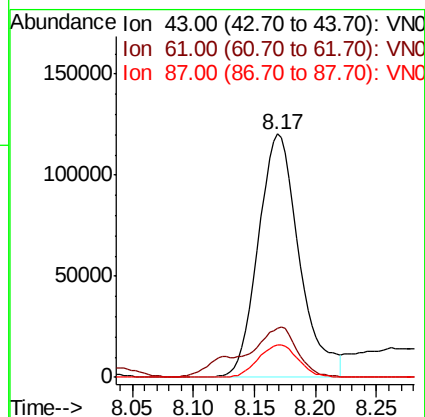
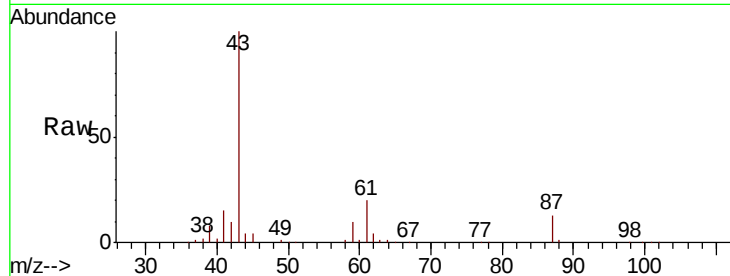
ClientSampleId :

VN0806WBSD02

Tot Ion:	43	Resp:	279539
Ion	Ratio	Lower	Upper
43	100		
61	19.1	15.8	23.6
87	13.1	10.3	15.5

Manual Integrations
APPROVED

MMDadoda
8/7/2018 9:59:19 AM



#44

Trichloroethene

Concen: 19.47 ug/l

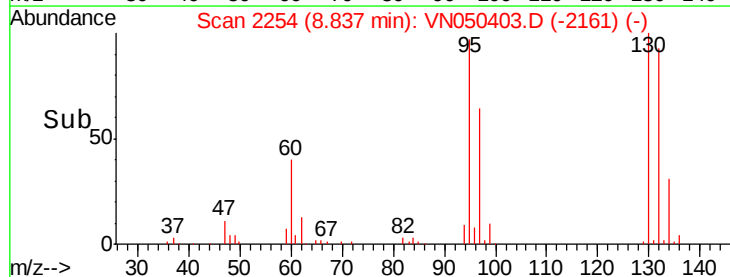
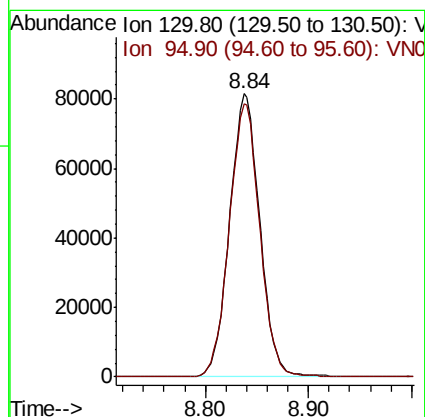
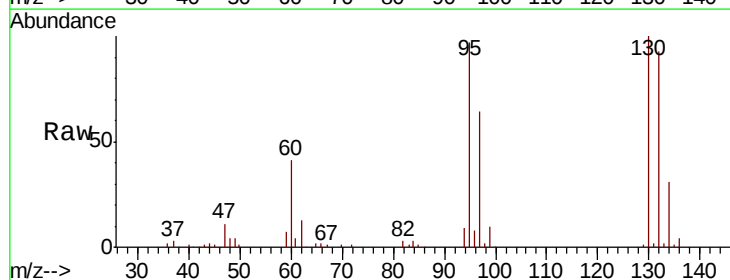
RT: 8.84 min Scan# 2254

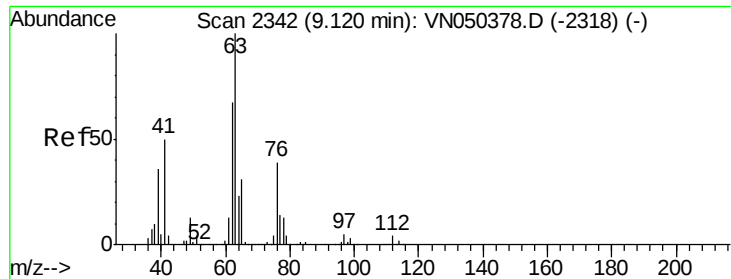
Delta R.T. -0.00 min

Lab File: VN050403.D

Acq: 7 Aug 2018 00:08

Tgt Ion:	130	Resp:	166185
Ion	Ratio	Lower	Upper
130	100		
95	96.7	0.0	194.6





#45

1,2-Dichloropropane

Concen: 20.10 ug/l

RT: 9.12 min Scan# 2342

Delta R.T. -0.00 min

Lab File: VN050403.D

Acq: 7 Aug 2018 00:08

Instrument :

MSVOA_N

ClientSampleId :

VN0806WBSD02

Tot Ion: 63 Resp: 167853

Ion Ratio Lower Upper

63 100

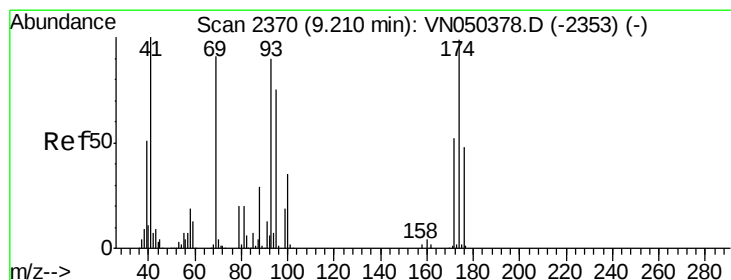
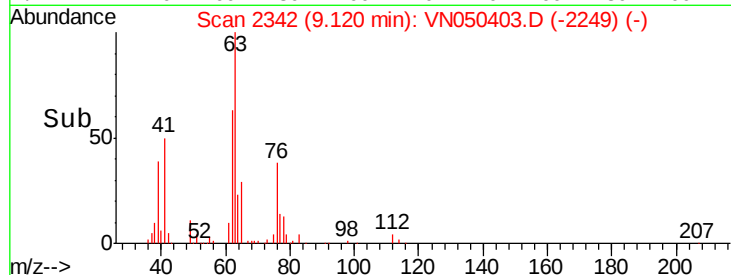
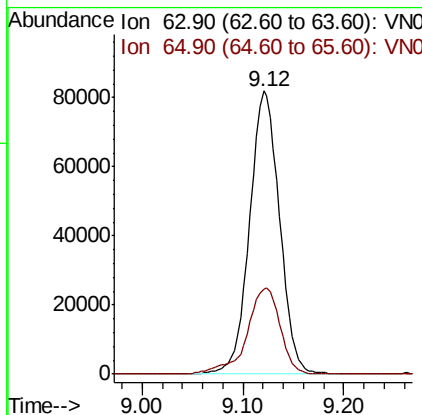
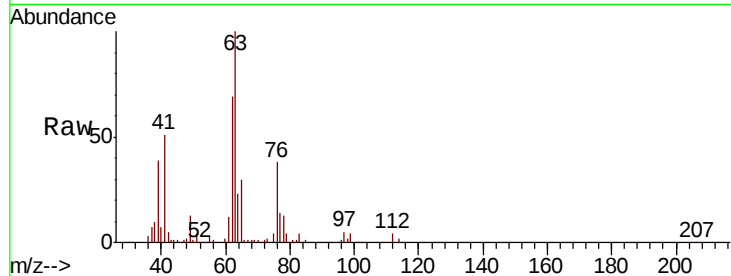
65 30.2 25.5 38.3

Manual Integrations

APPROVED

MMDadoda

8/7/2018 9:59:19 AM



#46

Dibromomethane

Concen: 20.54 ug/l

RT: 9.21 min Scan# 2371

Delta R.T. 0.00 min

Lab File: VN050403.D

Acq: 7 Aug 2018 00:08

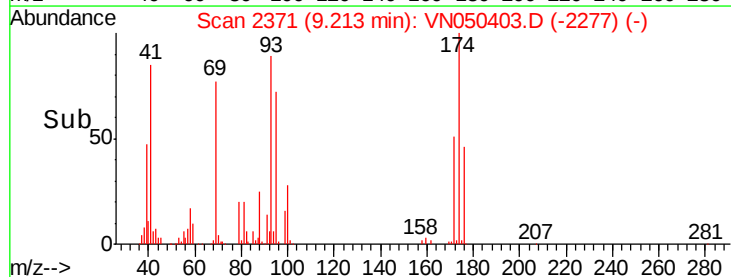
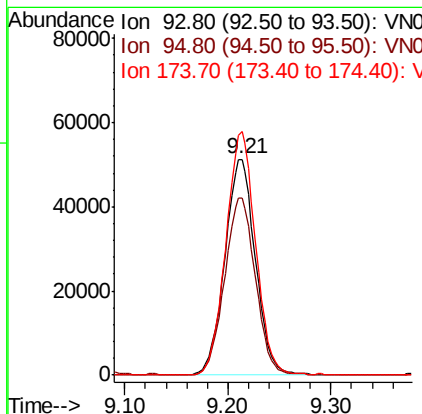
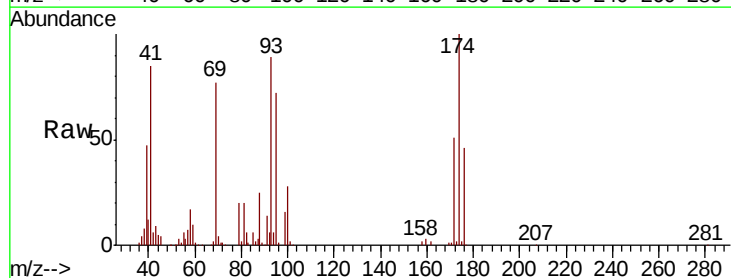
Tgt Ion: 93 Resp: 105950

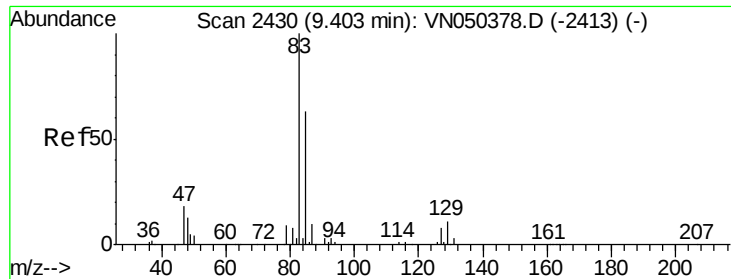
Ion Ratio Lower Upper

93 100

95 82.6 66.6 100.0

174 109.4 87.1 130.7





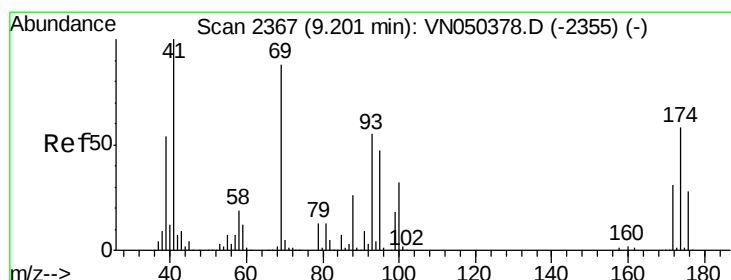
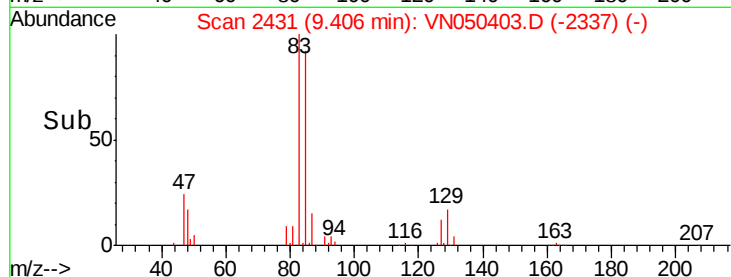
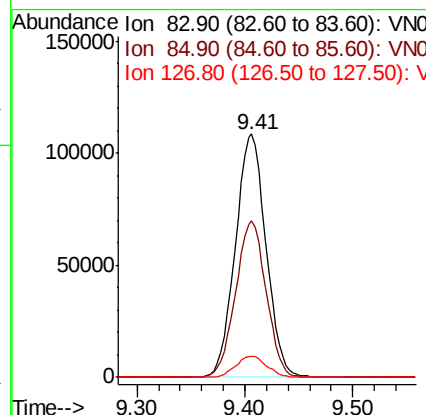
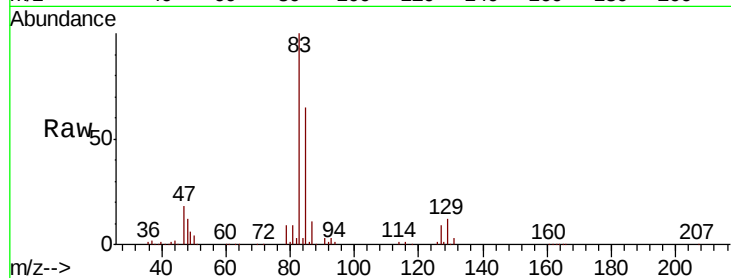
#47
Bromodichloromethane
Concen: 20.09 ug/l
RT: 9.41 min Scan# 2431
Delta R.T. 0.00 min
Lab File: VN050403.D
Acq: 7 Aug 2018 00:08

Instrument :
MSVOA_N
ClientSampleId :
VN0806WBSD02

Tot Ion	Ratio	Resp	Lower	Upper
83	100	214573		
85	64.5	51.1	76.7	
127	8.6	7.0	10.4	

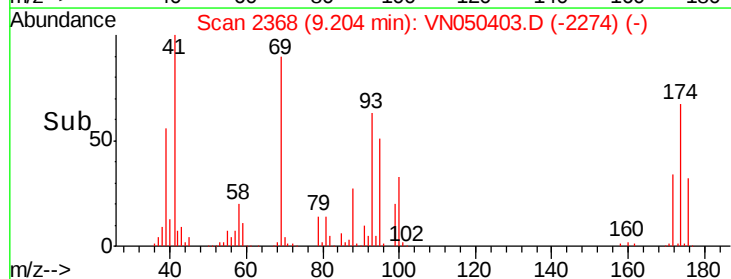
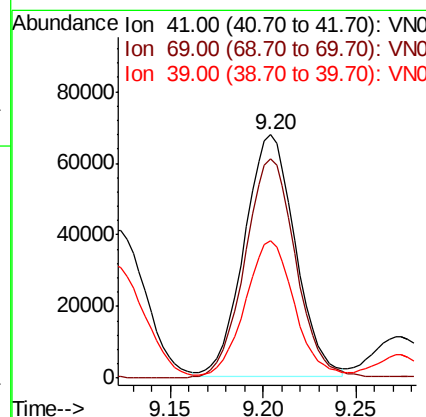
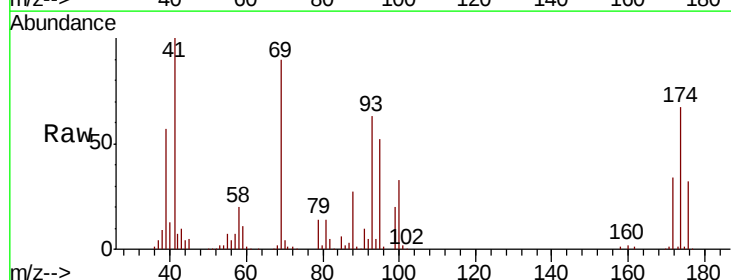
Manual Integrations
APPROVED

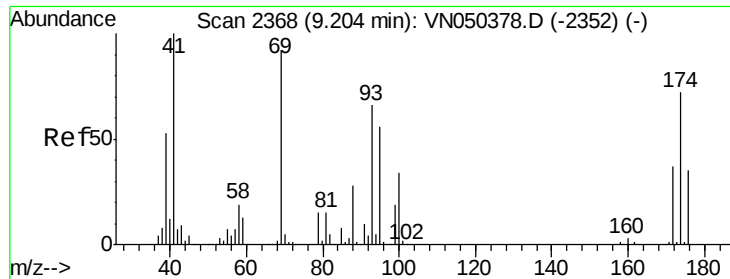
MMDadoda
8/7/2018 9:59:19 AM



#48
Methyl methacrylate
Concen: 20.06 ug/l
RT: 9.20 min Scan# 2368
Delta R.T. 0.00 min
Lab File: VN050403.D
Acq: 7 Aug 2018 00:08

Tgt Ion	Ratio	Resp	Lower	Upper
41	100	129136		
69	91.0	70.6	105.8	
39	55.0	43.9	65.9	





#49

1,4-Dioxane

Concen: 399.66 ug/l

RT: 9.20 min Scan# 2368

Delta R.T. -0.00 min

Lab File: VN050403.D

Acq: 7 Aug 2018 00:08

Instrument :

MSVOA_N

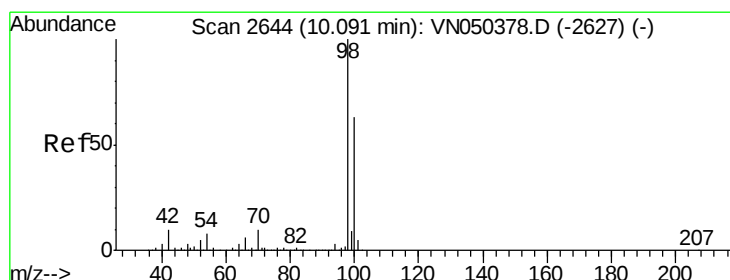
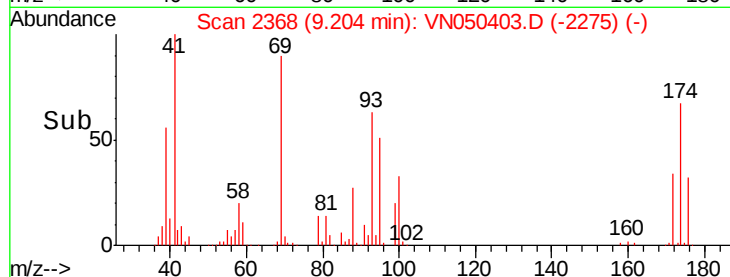
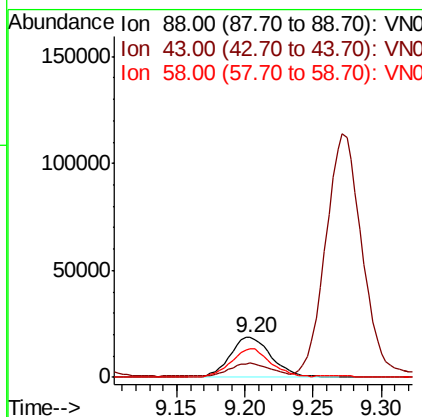
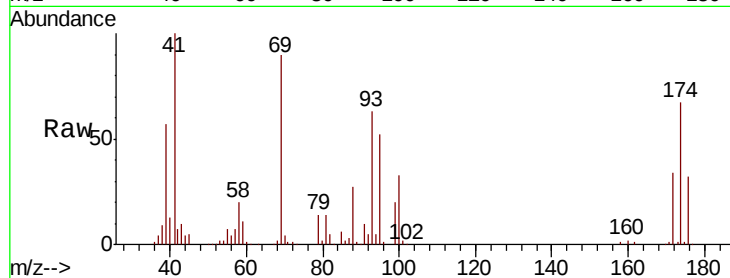
ClientSampleId :

VN0806WBSD02

Tot Ion:	88	Resp:	39661
Ion	Ratio	Lower	Upper
88	100		
43	32.4	26.9	40.3
58	69.0	57.3	85.9

Manual Integrations
APPROVED

MMDadoda
8/7/2018 9:59:19 AM



#50

Toluene-d8

Concen: 50.55 ug/l

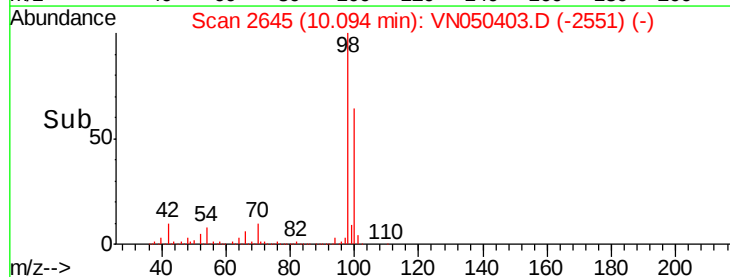
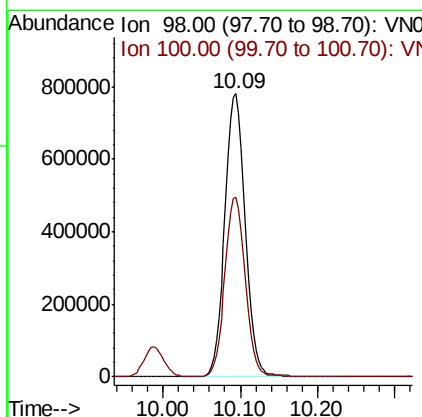
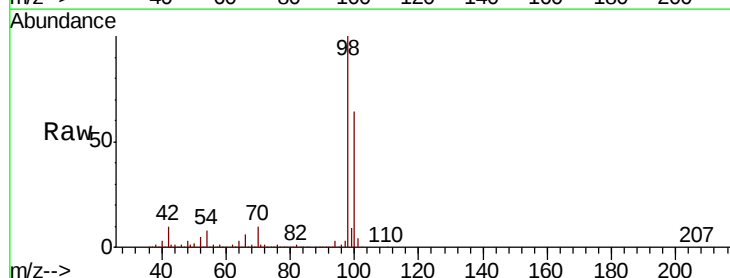
RT: 10.09 min Scan# 2645

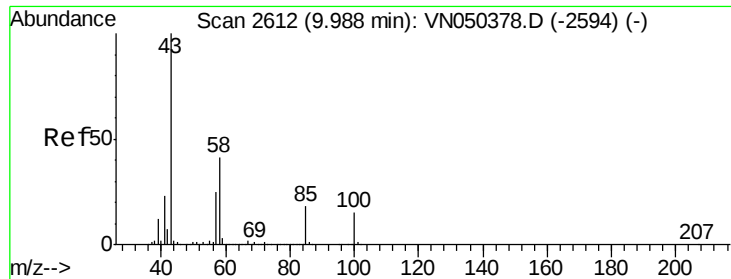
Delta R.T. 0.00 min

Lab File: VN050403.D

Acq: 7 Aug 2018 00:08

Tgt Ion:	98	Resp:	1434029
Ion	Ratio	Lower	Upper
98	100		
100	63.8	50.7	76.1





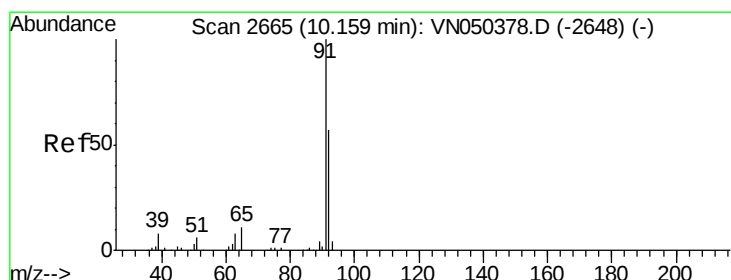
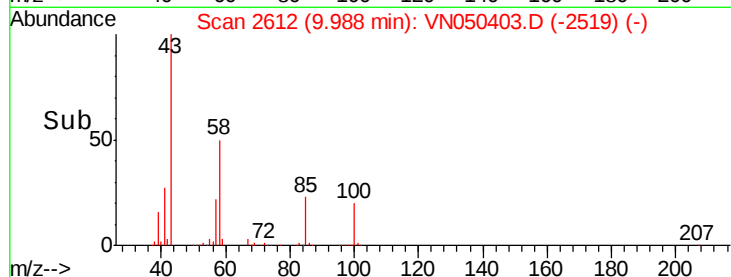
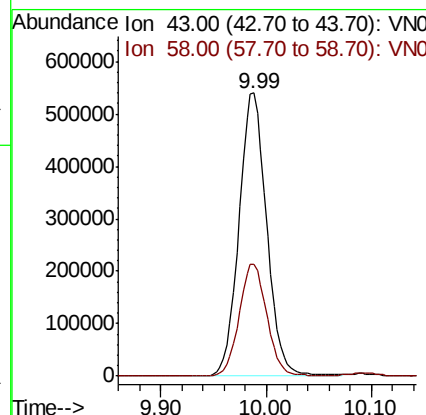
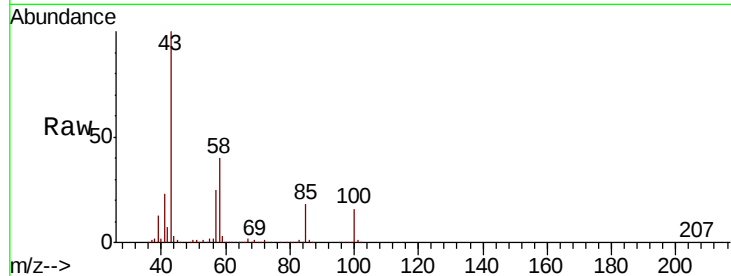
#51
 4-Methyl-2-Pentanone
 Concen: 105.92 ug/l
 RT: 9.99 min Scan# 2612
 Delta R.T. -0.00 min
 Lab File: VN050403.D
 Acq: 7 Aug 2018 00:08

Instrument :
 MSVOA_N
 ClientSampleId :
 VN0806WBSD02

Tot Ion	Ratio	Lower	Upper
43	100		
58	39.8	31.9	47.9

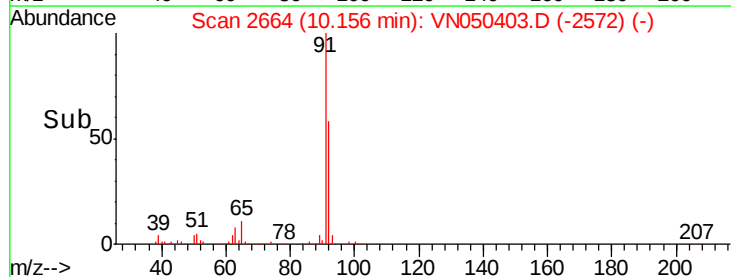
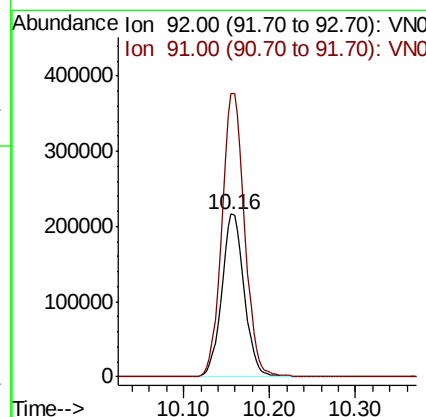
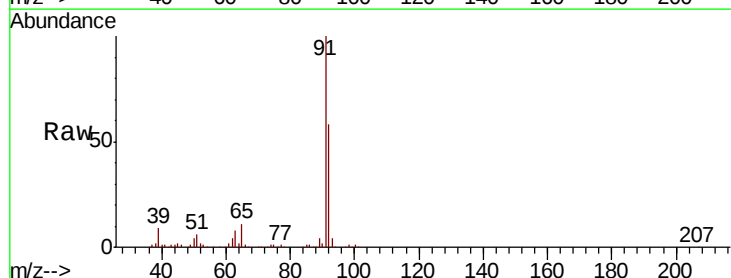
Manual Integrations
 APPROVED

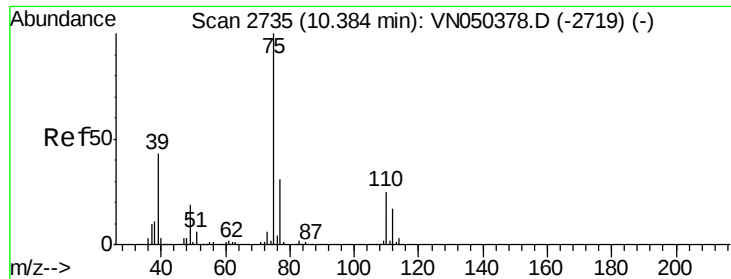
MMDadoda
 8/7/2018 9:59:19 AM



#52
 Toluene
 Concen: 20.60 ug/l
 RT: 10.16 min Scan# 2664
 Delta R.T. -0.00 min
 Lab File: VN050403.D
 Acq: 7 Aug 2018 00:08

Tgt Ion	Ratio	Lower	Upper
92	100		
91	176.7	140.3	210.5





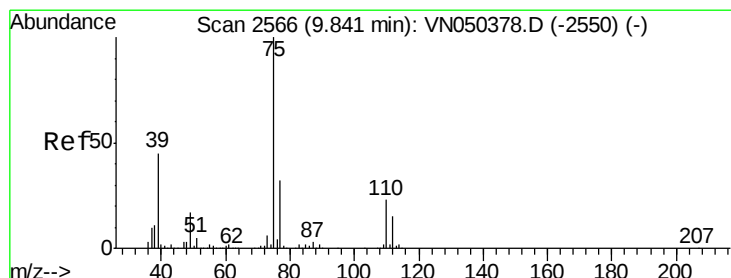
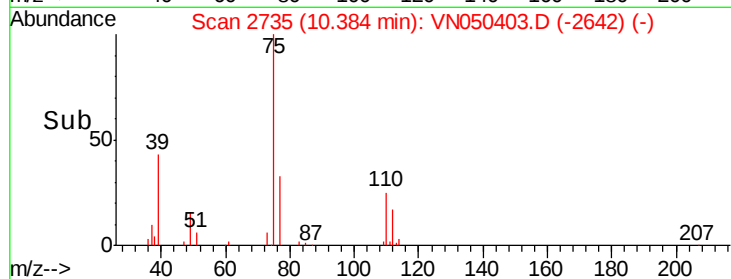
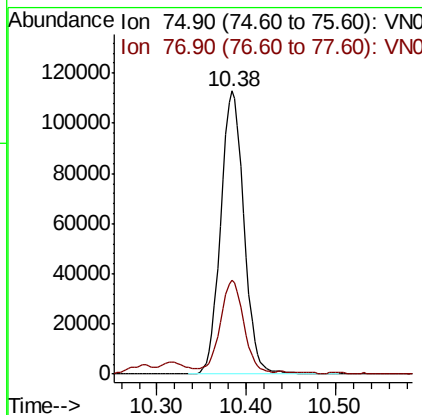
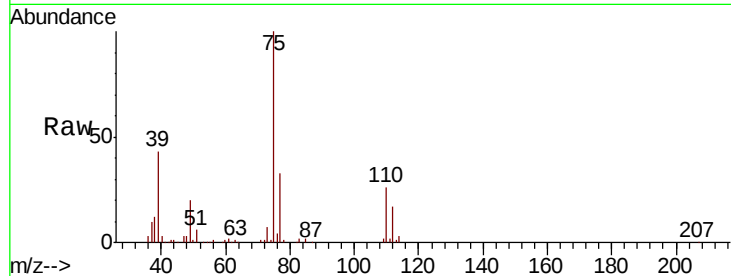
#53
t-1,3-Dichloropropene
Concen: 19.02 ug/l
RT: 10.38 min Scan# 2735
Delta R.T. -0.00 min
Lab File: VN050403.D
Acq: 7 Aug 2018 00:08

Instrument :
MSVOA_N
ClientSampleId :
VN0806WBSD02

Tot Ion	Ratio	Lower	Upper
75	100		
77	32.9	24.9	37.3

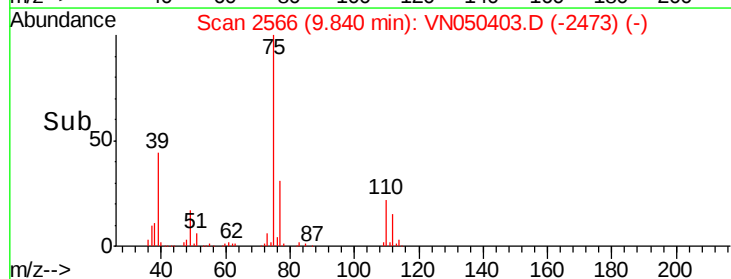
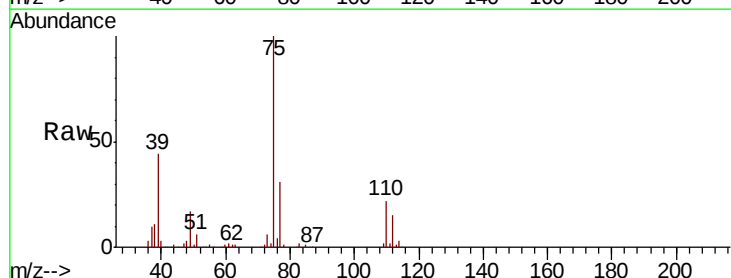
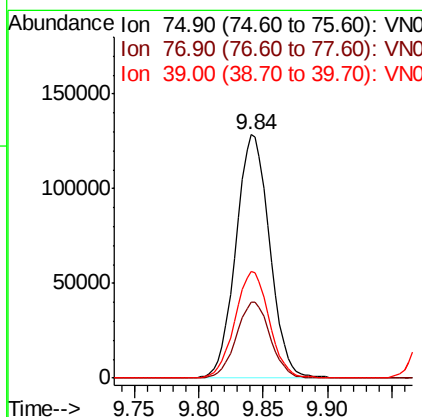
Manual Integrations
APPROVED

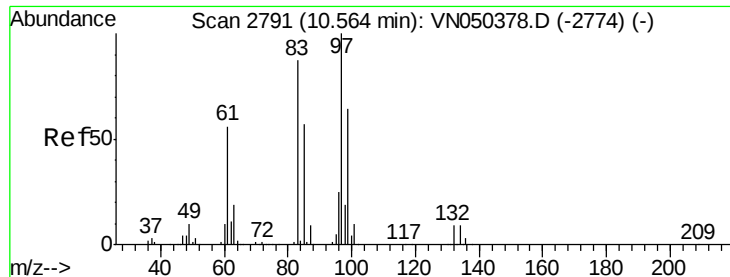
MMDadoda
8/7/2018 9:59:19 AM



#54
cis-1,3-Dichloropropene
Concen: 19.60 ug/l
RT: 9.84 min Scan# 2566
Delta R.T. -0.00 min
Lab File: VN050403.D
Acq: 7 Aug 2018 00:08

Tgt Ion	Ratio	Lower	Upper
75	100		
77	31.0	25.5	38.3
39	43.7	36.6	55.0





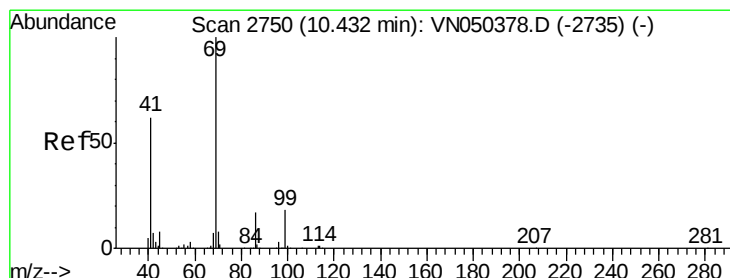
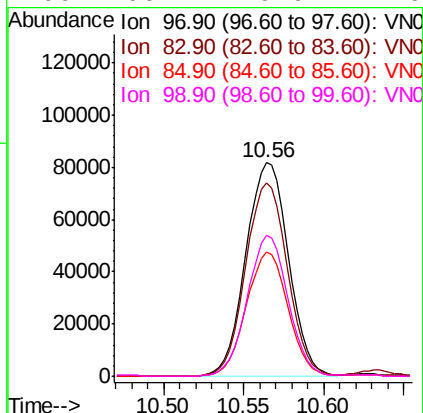
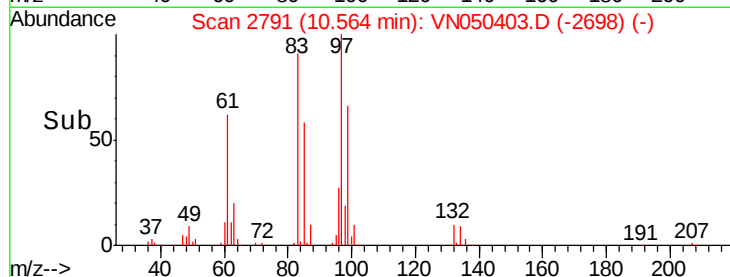
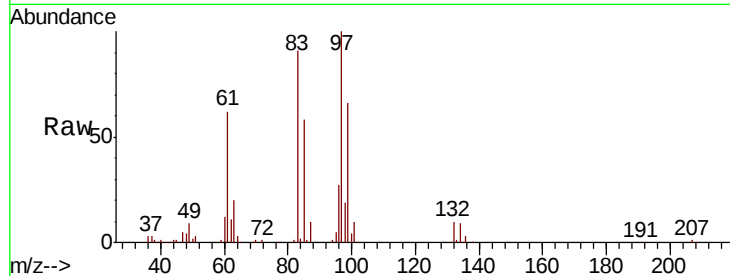
#55
 1,1,2-Trichloroethane
 Concen: 20.12 ug/l
 RT: 10.56 min Scan# 2791
 Delta R.T. -0.00 min
 Lab File: VN050403.D
 Acq: 7 Aug 2018 00:08

Instrument :
 MSVOA_N
 ClientSampleId :
 VN0806WBSD02

Tot Ion:	97	Resp:	149892
Ion	Ratio	Lower	Upper
97	100		
83	90.6	69.2	103.8
85	58.1	44.0	66.0
99	66.1	49.9	74.9

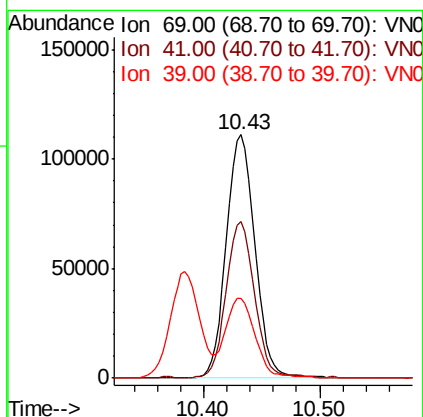
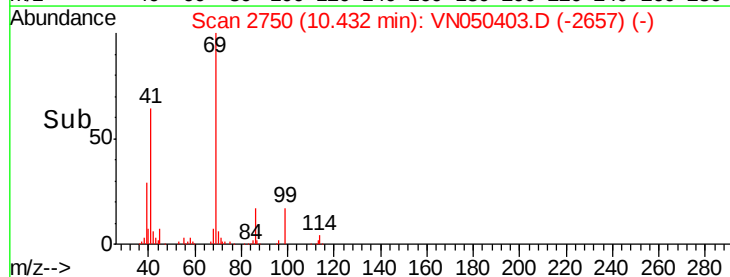
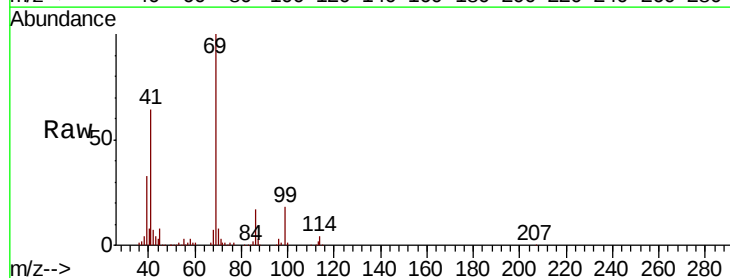
Manual Integrations
 APPROVED

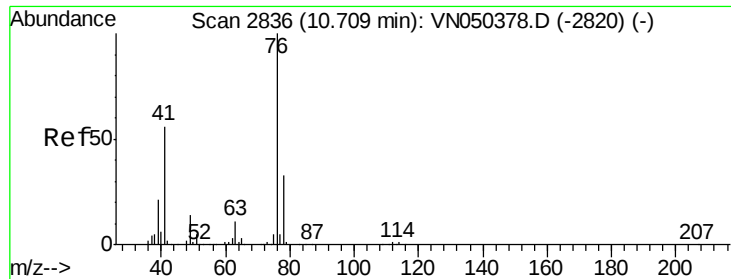
MMDadoda
 8/7/2018 9:59:19 AM



#56
 Ethyl methacrylate
 Concen: 19.11 ug/l
 RT: 10.43 min Scan# 2750
 Delta R.T. 0.00 min
 Lab File: VN050403.D
 Acq: 7 Aug 2018 00:08

Tgt Ion:	69	Resp:	189903
Ion	Ratio	Lower	Upper
69	100		
41	62.7	51.0	76.4
39	33.1	26.6	40.0





#57

1,3-Dichloropropane

Concen: 20.64 ug/l

RT: 10.71 min Scan# 2836

Delta R.T. -0.00 min

Lab File: VN050403.D

Acq: 7 Aug 2018 00:08

Instrument :

MSVOA_N

ClientSampleId :

VN0806WBSD02

Tot Ion: 76 Resp: 252391

Ion Ratio Lower Upper

76 100

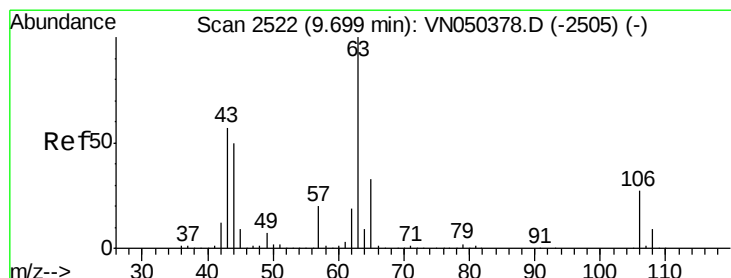
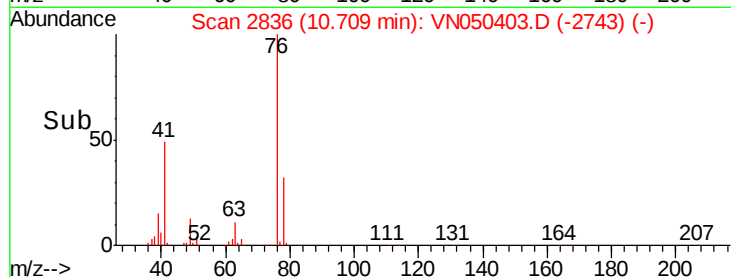
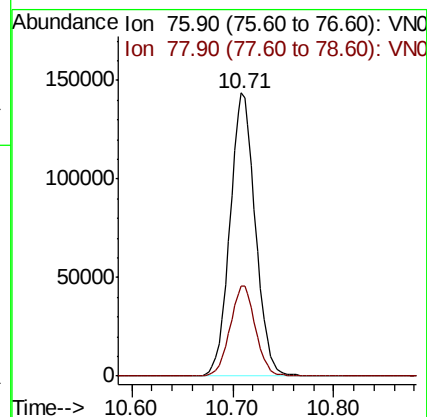
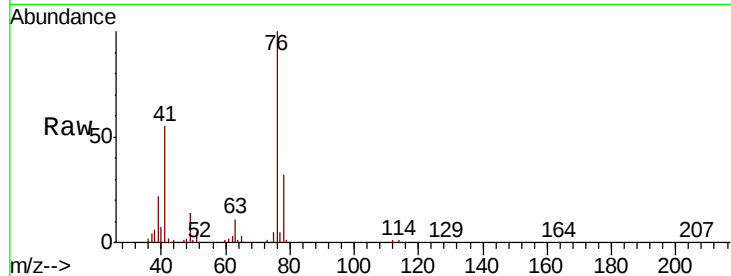
78 31.9 25.7 38.5

Manual Integrations

APPROVED

MMDadoda

8/7/2018 9:59:19 AM



#58

2-Chloroethyl Vinyl ether

Concen: 97.49 ug/l

RT: 9.70 min Scan# 2522

Delta R.T. 0.00 min

Lab File: VN050403.D

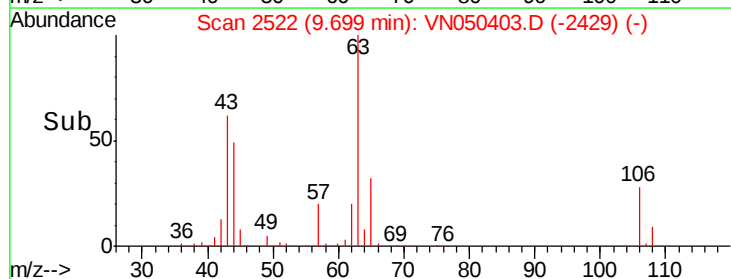
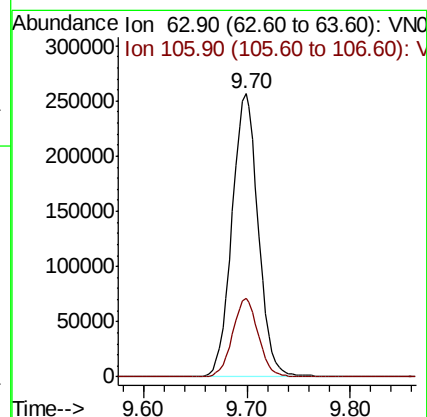
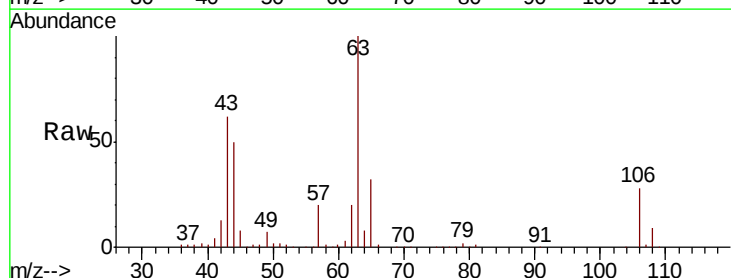
Acq: 7 Aug 2018 00:08

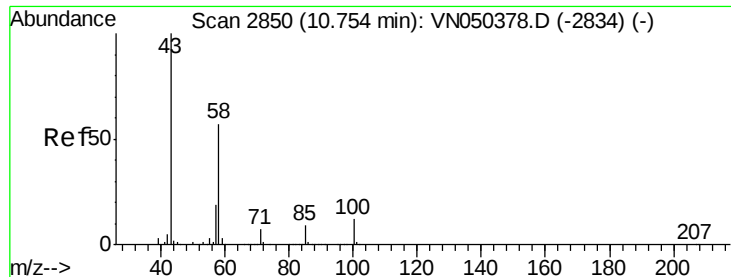
Tgt Ion: 63 Resp: 456187

Ion Ratio Lower Upper

63 100

106 27.1 21.7 32.5





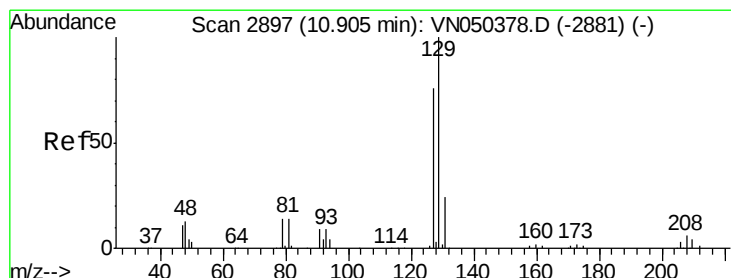
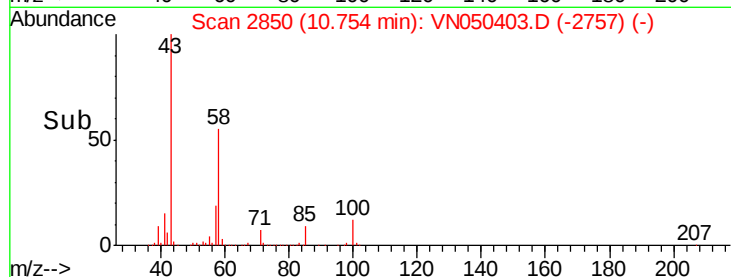
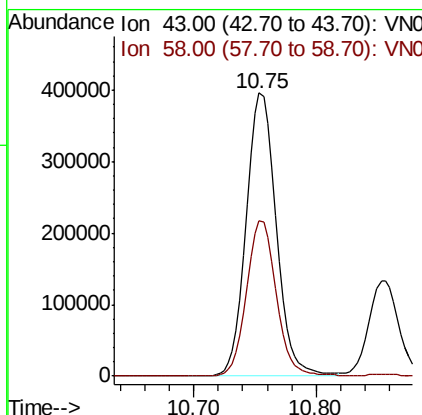
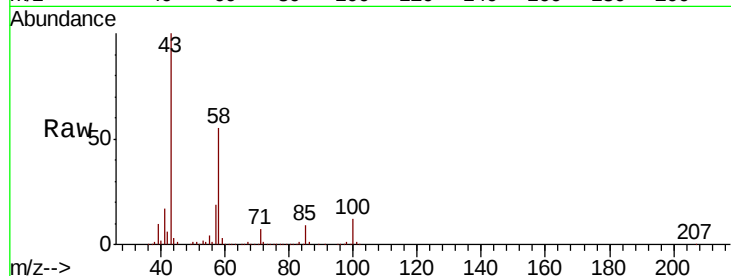
#59
2-Hexanone
Concen: 103.55 ug/l
RT: 10.75 min Scan# 2850
Delta R.T. -0.00 min
Lab File: VN050403.D
Acq: 7 Aug 2018 00:08

Instrument :
MSVOA_N
ClientSampleId :
VN0806WBSD02

Tot Ion: 43 Resp: 668503
Ion Ratio Lower Upper
43 100
58 54.4 27.6 82.7

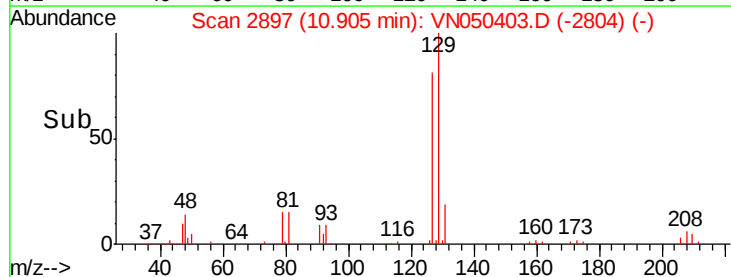
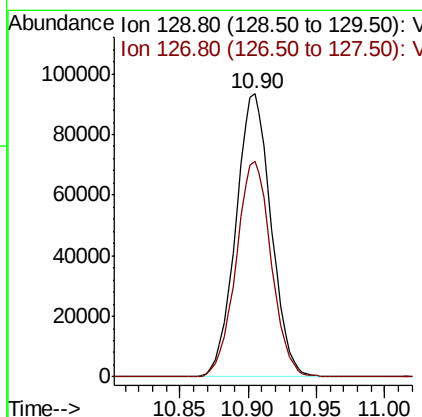
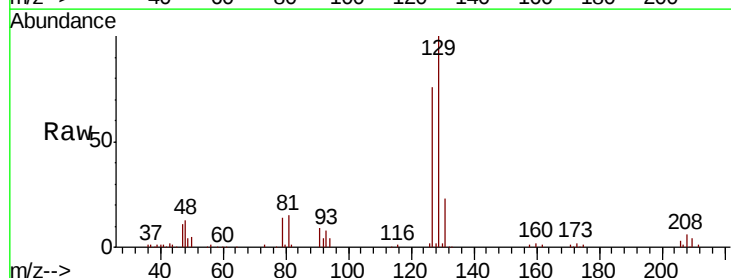
Manual Integrations
APPROVED

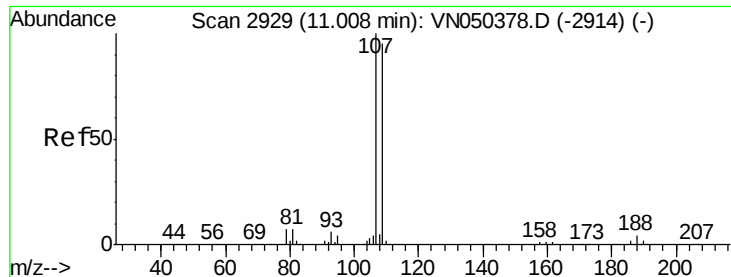
MMDadoda
8/7/2018 9:59:19 AM



#60
Dibromochloromethane
Concen: 20.42 ug/l
RT: 10.90 min Scan# 2897
Delta R.T. -0.00 min
Lab File: VN050403.D
Acq: 7 Aug 2018 00:08

Tgt Ion: 129 Resp: 167598
Ion Ratio Lower Upper
129 100
127 75.9 38.0 113.9





#61

1,2-Dibromoethane

Concen: 20.44 ug/l

RT: 11.01 min Scan# 2929

Delta R.T. -0.00 min

Lab File: VN050403.D

Acq: 7 Aug 2018 00:08

Instrument :

MSVOA_N

ClientSampleId :

VN0806WBSD02

Tot Ion: 107 Resp: 150074

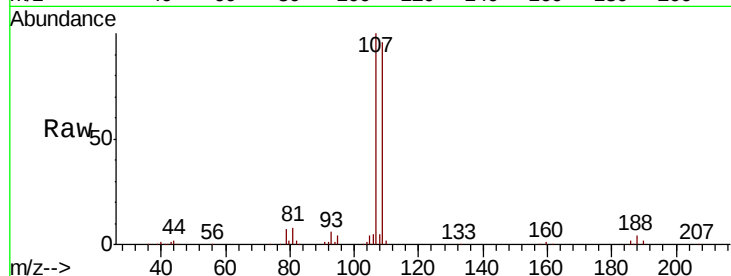
Ion Ratio Lower Upper

107 100

109 94.9 74.6 112.0

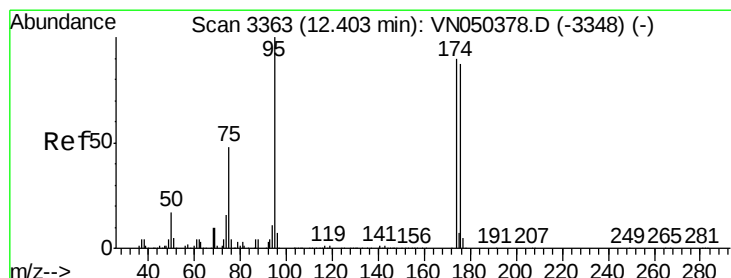
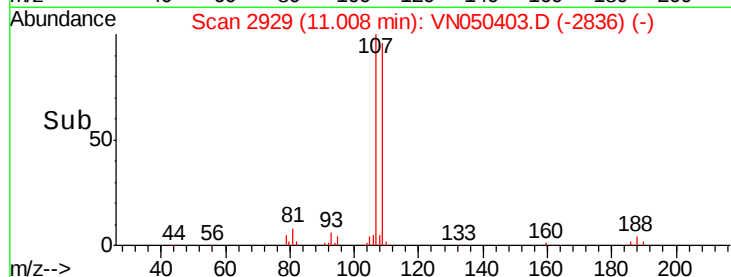
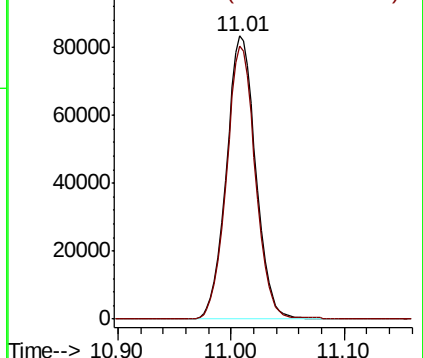
Manual Integrations
APPROVED

MMDadoda
8/7/2018 9:59:19 AM



Abundance Ion 106.90 (106.60 to 107.60): V

Ion 108.80 (108.50 to 109.50): V



#62

4-Bromofluorobenzene

Concen: 47.91 ug/l

RT: 12.40 min Scan# 3363

Delta R.T. -0.00 min

Lab File: VN050403.D

Acq: 7 Aug 2018 00:08

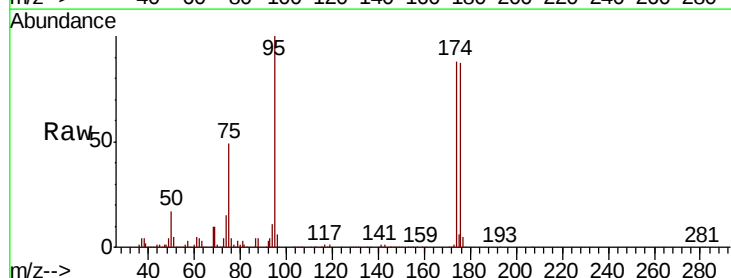
Tgt Ion: 95 Resp: 463236

Ion Ratio Lower Upper

95 100

174 89.1 0.0 178.2

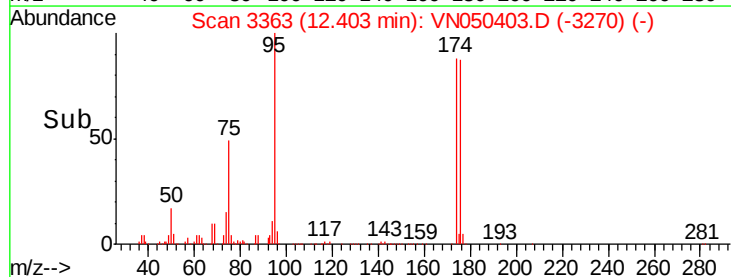
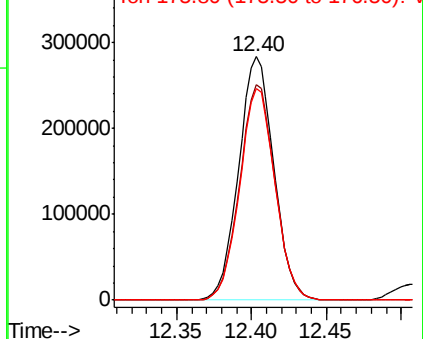
176 87.3 0.0 173.4

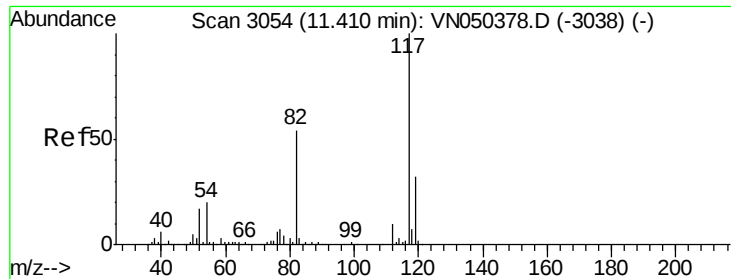


Abundance Ion 94.90 (94.60 to 95.60): V

Ion 173.80 (173.50 to 174.50): V

Ion 175.80 (175.50 to 176.50): V





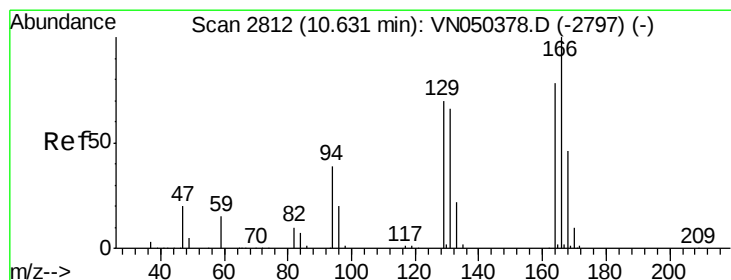
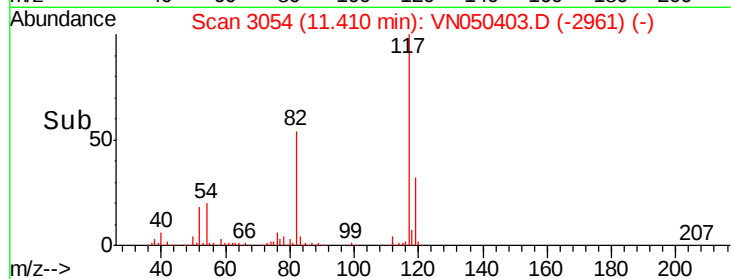
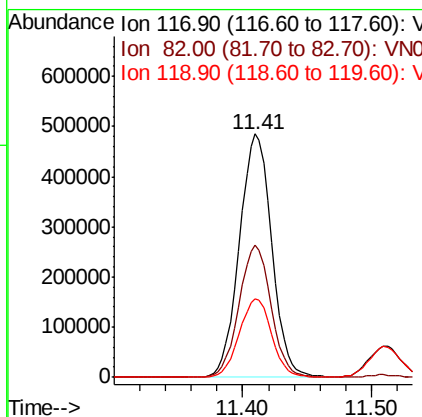
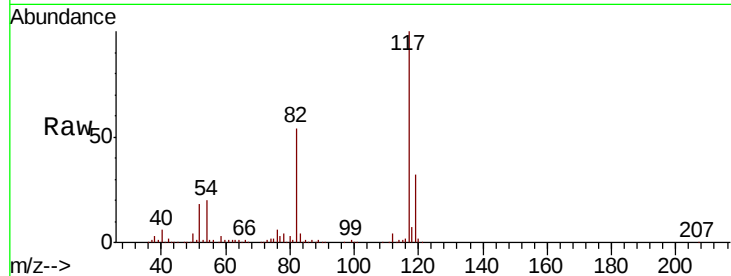
#63
Chlorobenzene-d5
Concen: 50.00 ug/l
RT: 11.41 min Scan# 3054
Delta R.T. -0.00 min
Lab File: VN050403.D
Acq: 7 Aug 2018 00:08

Instrument :
MSVOA_N
ClientSampleId :
VN0806WBSD02

Tot Ion	Ratio	Lower	Upper
117	100		
82	54.1	43.7	65.5
119	32.4	26.1	39.1

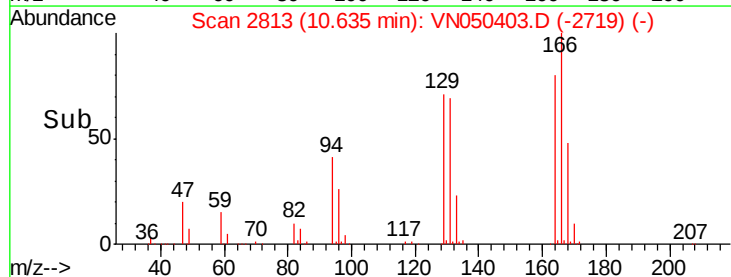
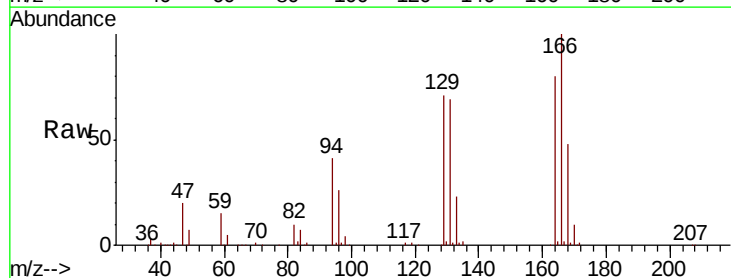
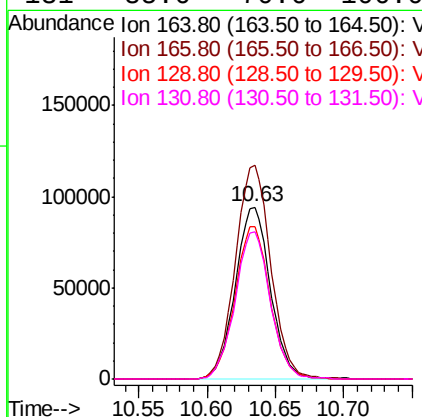
Manual Integrations
APPROVED

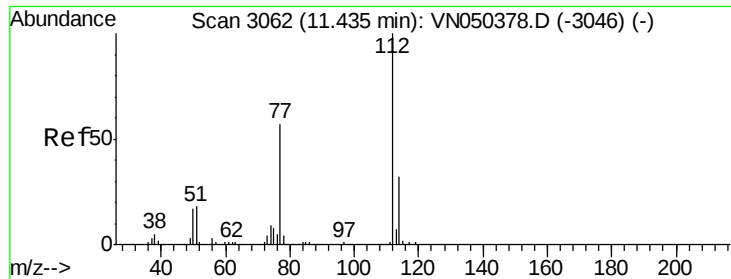
MMDadoda
8/7/2018 9:59:19 AM



#64
Tetrachloroethene
Concen: 21.24 ug/l
RT: 10.63 min Scan# 2813
Delta R.T. 0.00 min
Lab File: VN050403.D
Acq: 7 Aug 2018 00:08

Tgt Ion	Ratio	Lower	Upper
164	100		
166	124.3	102.1	153.1
129	88.7	73.2	109.8
131	85.6	70.6	106.0





#65

Chlorobenzene

Concen: 19.77 ug/l

RT: 11.44 min Scan# 3062

Delta R.T. -0.00 min

Lab File: VN050403.D

Acq: 7 Aug 2018 00:08

Instrument :

MSVOA_N

ClientSampleId :

VN0806WBSD02

Tot Ion:112 Resp: 419691

Ion Ratio Lower Upper

112 100

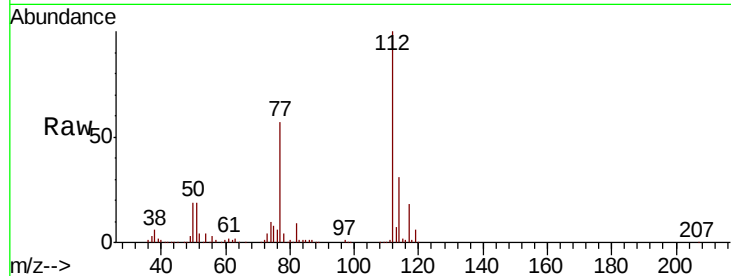
114 31.3 25.6 38.4

Manual Integrations

APPROVED

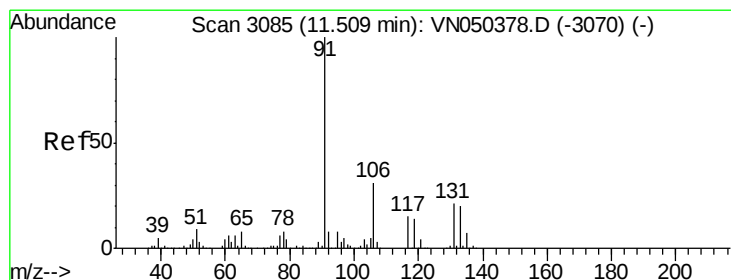
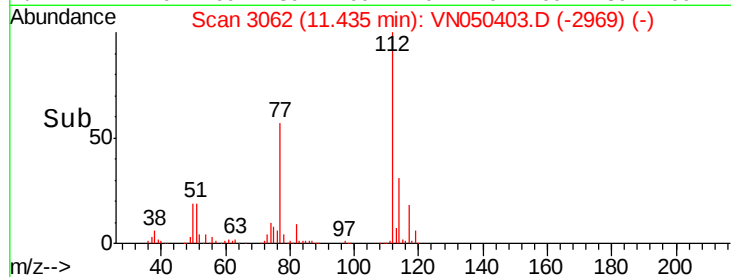
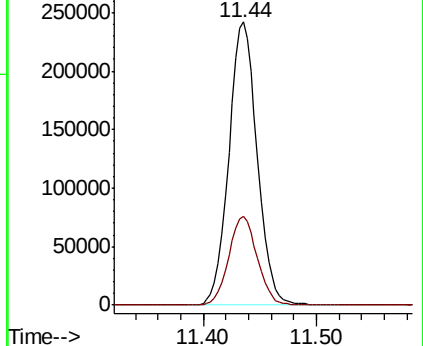
MMDadoda

8/7/2018 9:59:19 AM



Abundance Ion 111.90 (111.60 to 112.60): V

Ion 113.90 (113.60 to 114.60): V



#66

1,1,1,2-Tetrachloroethane

Concen: 20.35 ug/l

RT: 11.51 min Scan# 3085

Delta R.T. -0.00 min

Lab File: VN050403.D

Acq: 7 Aug 2018 00:08

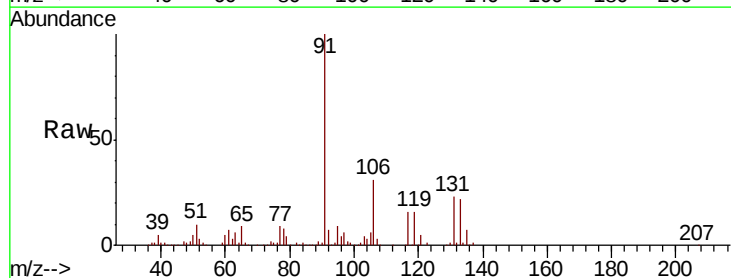
Tgt Ion:131 Resp: 157256

Ion Ratio Lower Upper

131 100

133 96.1 47.3 141.9

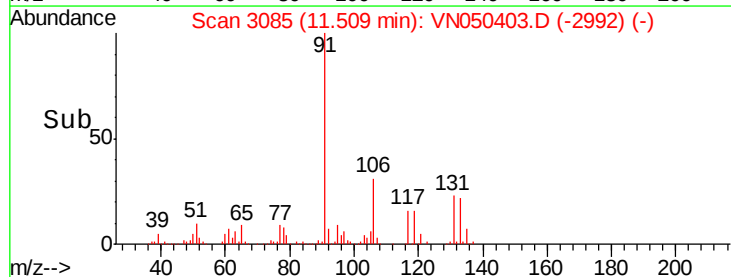
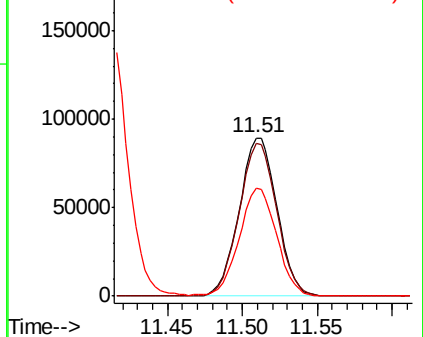
119 67.6 32.9 98.7

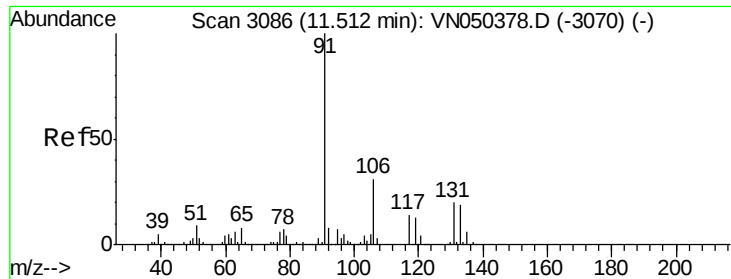


Abundance Ion 130.80 (130.50 to 131.50): V

Ion 132.80 (132.50 to 133.50): V

Ion 118.80 (118.50 to 119.50): V





#67

Ethyl Benzene

Concen: 20.24 ug/l

RT: 11.51 min Scan# 3086

Delta R.T. -0.00 min

Lab File: VN050403.D

Acq: 7 Aug 2018 00:08

Instrument :

MSVOA_N

ClientSampleId :

VN0806WBSD02

Tot Ion: 91 Resp: 694583

Ion Ratio Lower Upper

91 100

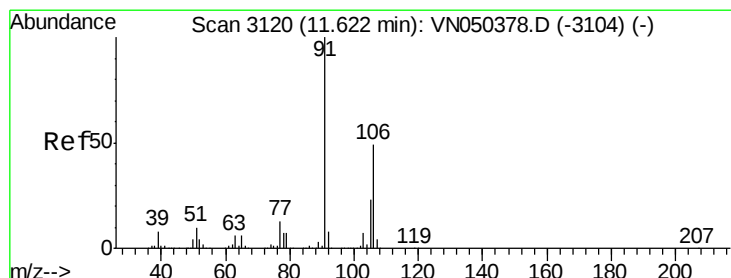
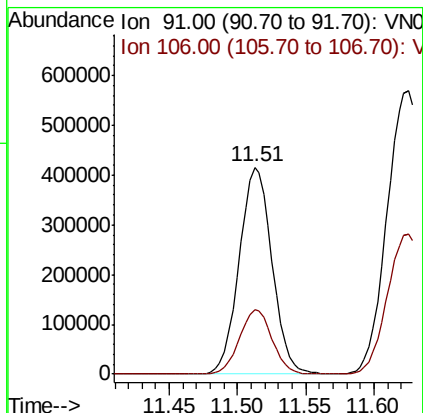
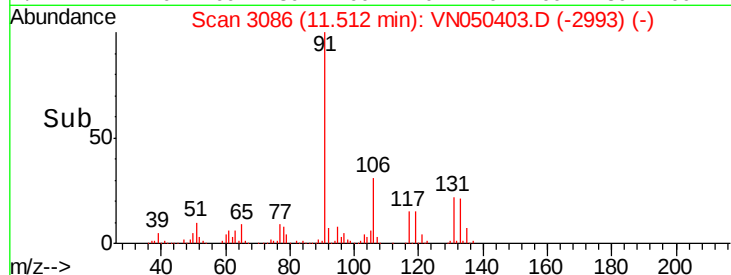
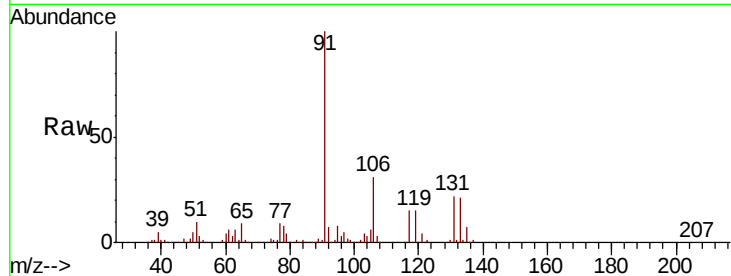
106 31.1 25.0 37.4

Manual Integrations

APPROVED

MMDadoda

8/7/2018 9:59:19 AM



#68

m/p-Xylenes

Concen: 41.16 ug/l

RT: 11.62 min Scan# 3121

Delta R.T. 0.00 min

Lab File: VN050403.D

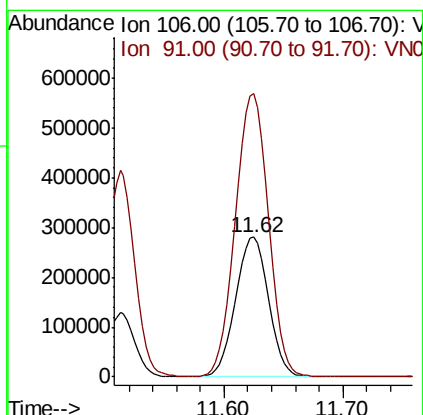
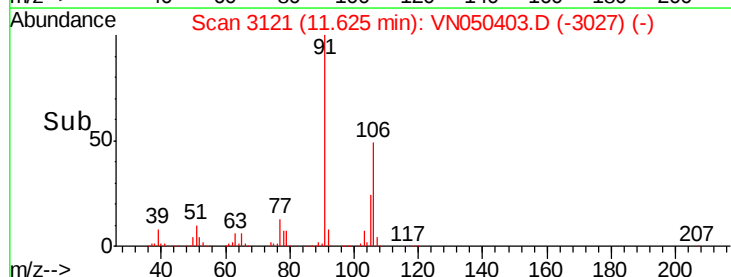
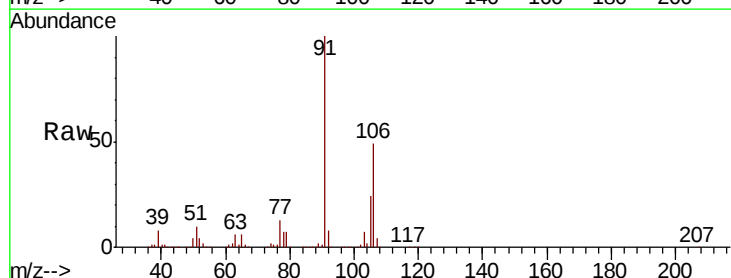
Acq: 7 Aug 2018 00:08

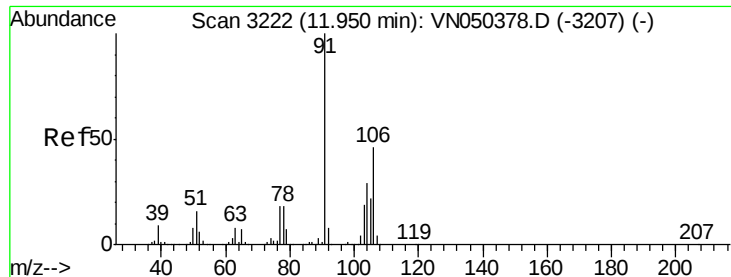
Tgt Ion: 106 Resp: 537774

Ion Ratio Lower Upper

106 100

91 204.1 162.2 243.2





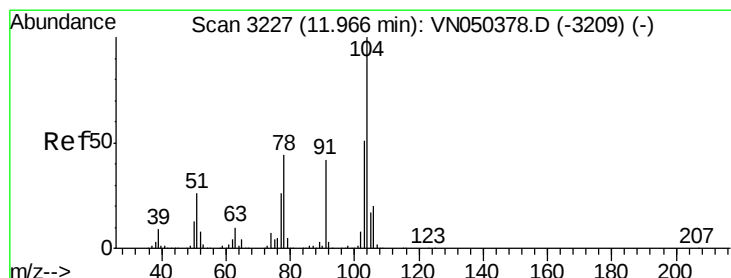
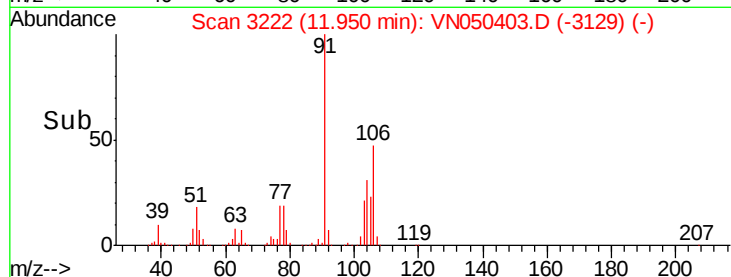
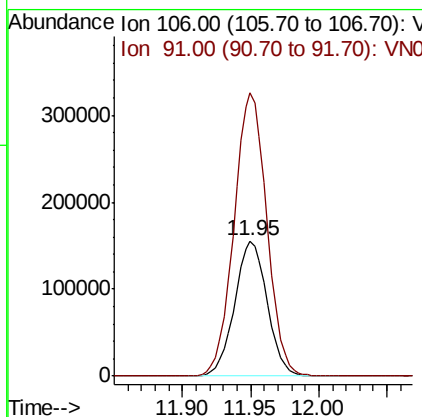
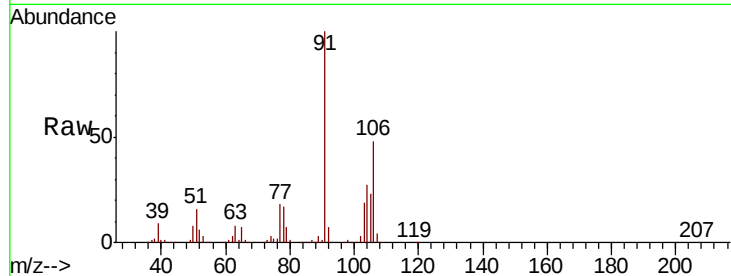
#69
o-Xylene
Concen: 20.43 ug/l
RT: 11.95 min Scan# 3222
Delta R.T. -0.00 min
Lab File: VN050403.D
Acq: 7 Aug 2018 00:08

Instrument :
MSVOA_N
ClientSampled :
VN0806WBSD02

Tot Ion	Ratio	Lower	Upper
106	100		
91	211.0	107.7	323.1

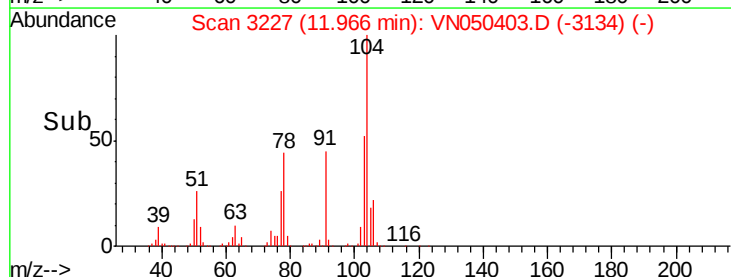
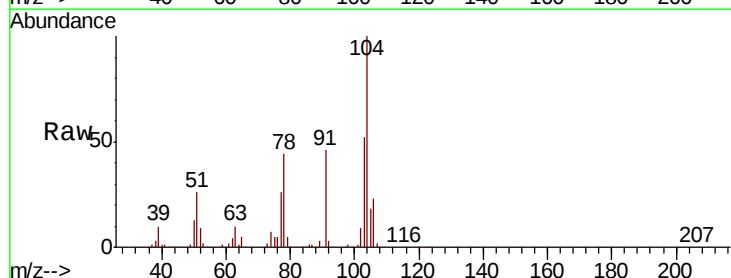
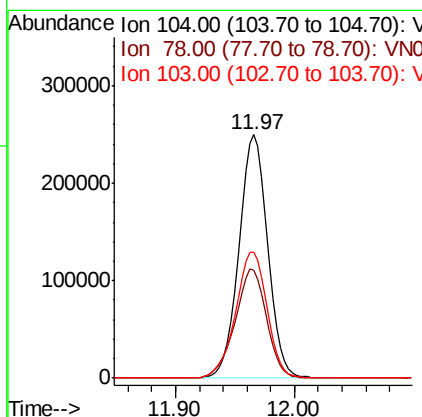
Manual Integrations
APPROVED

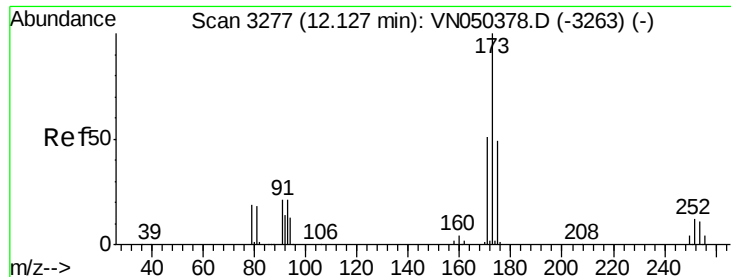
MMDadoda
8/7/2018 9:59:19 AM



#70
Styrene
Concen: 20.39 ug/l
RT: 11.97 min Scan# 3227
Delta R.T. -0.00 min
Lab File: VN050403.D
Acq: 7 Aug 2018 00:08

Tgt Ion	Ratio	Lower	Upper
104	100		
78	49.1	39.3	58.9
103	56.8	45.0	67.6





#71

Bromoform

Concen: 20.42 ug/l

RT: 12.13 min Scan# 3278

Delta R.T. 0.00 min

Lab File: VN050403.D

Acq: 7 Aug 2018 00:08

Instrument :

MSVOA_N

ClientSampleId :

VN0806WBSD02

Tot Ion:173 Resp: 115345

Ion Ratio Lower Upper

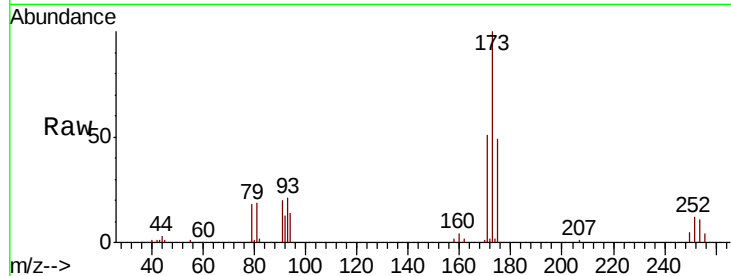
173 100

175 48.9 24.1 72.2

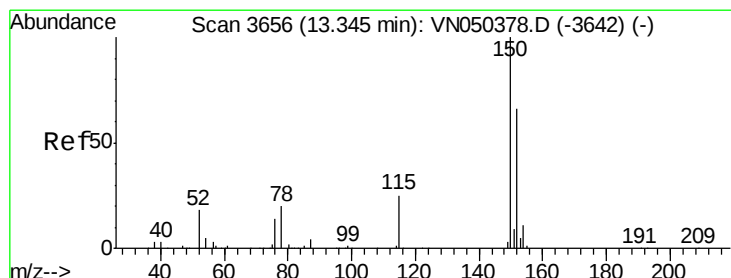
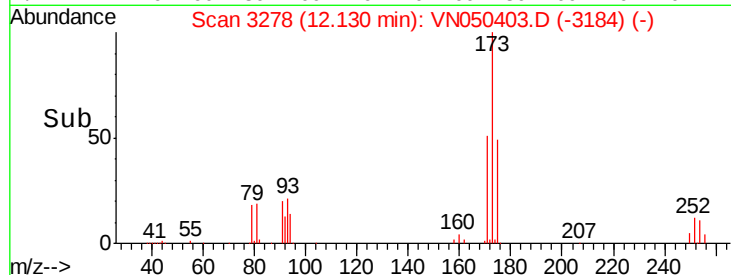
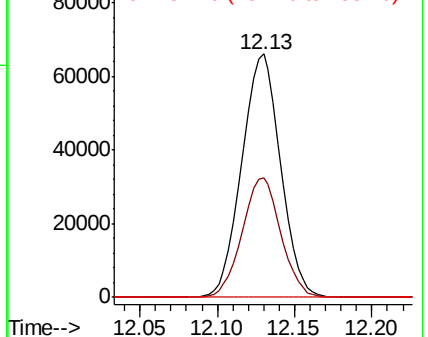
254 0.0 0.2 0.2#

Manual Integrations
APPROVED

MMDadoda
8/7/2018 9:59:19 AM



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



#72

1,4-Dichlorobenzene-d4

Concen: 50.00 ug/l

RT: 13.35 min Scan# 3656

Delta R.T. -0.00 min

Lab File: VN050403.D

Acq: 7 Aug 2018 00:08

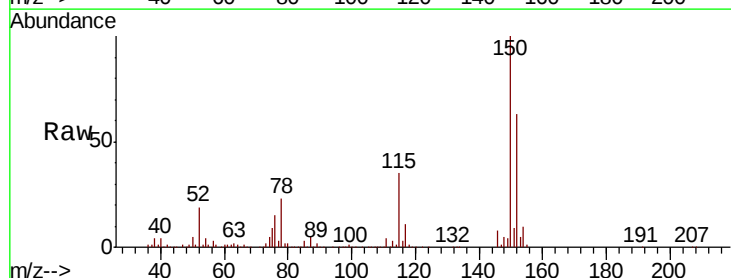
Tgt Ion:152 Resp: 434575

Ion Ratio Lower Upper

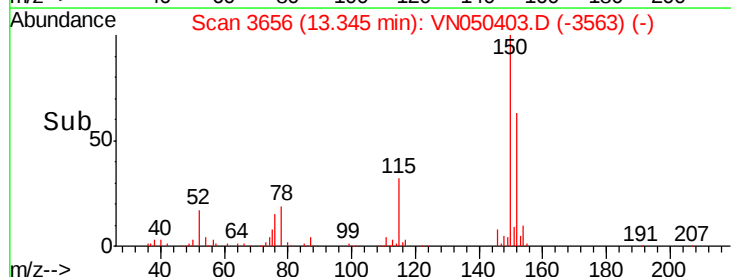
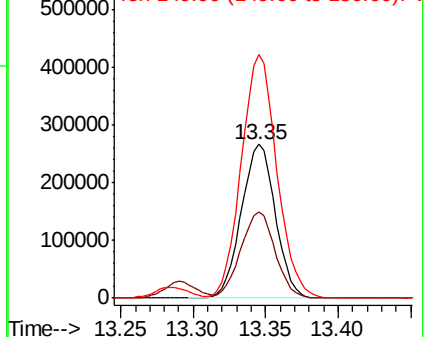
152 100

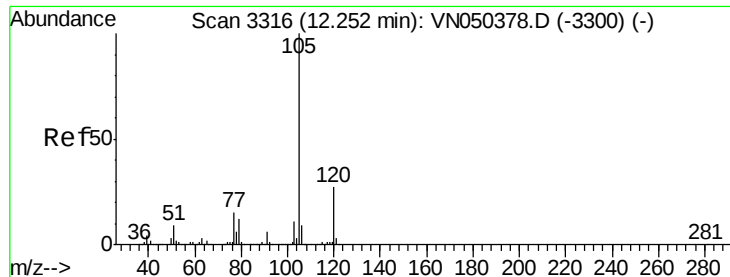
115 56.3 27.8 83.3

150 165.3 0.0 348.6



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: 20.82 ug/l

RT: 12.25 min Scan# 3316

Delta R.T. -0.00 min

Lab File: VN050403.D

Acq: 7 Aug 2018 00:08

Instrument :

MSVOA_N

ClientSampleId :

VN0806WBSD02

Tot Ion:105 Resp: 679213

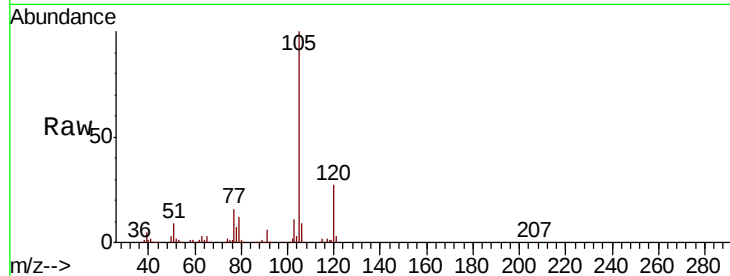
Ion Ratio Lower Upper

105 100

120 26.5 13.3 39.8

Manual Integrations
APPROVED

MMDadoda
8/7/2018 9:59:19 AM



Abundance Ion 105.00 (104.70 to 105.70): V

Ion 120.00 (119.70 to 120.70): V

12.25

400000

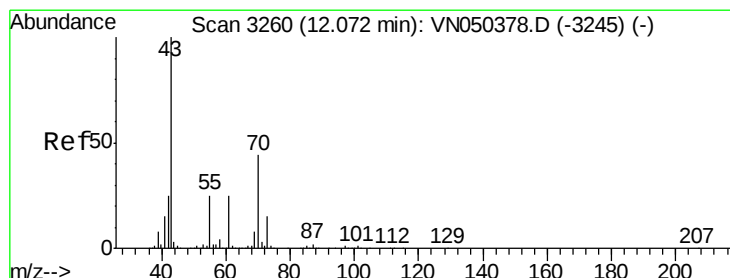
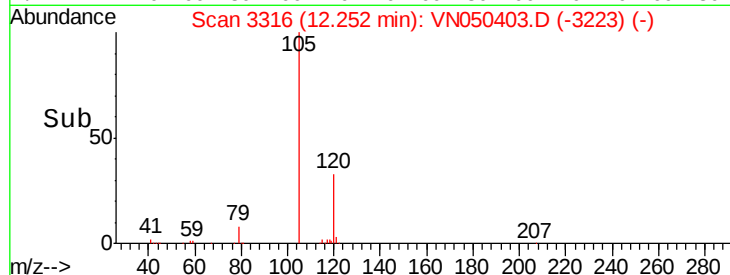
300000

200000

100000

0

Time--> 12.15 12.20 12.25 12.30



#74

N-ethyl acetate

Concen: 20.76 ug/l

RT: 12.07 min Scan# 3260

Delta R.T. -0.00 min

Lab File: VN050403.D

Acq: 7 Aug 2018 00:08

Tgt Ion: 43 Resp: 219473

Ion Ratio Lower Upper

43 100

70 42.8 34.4 51.6

55 26.6 20.8 31.2

61 24.7 19.7 29.5

Abundance Ion 43.00 (42.70 to 43.70): VN0

Ion 70.00 (69.70 to 70.70): VN0

Ion 55.00 (54.70 to 55.70): VN0

Ion 61.00 (60.70 to 61.70): VN0

200000

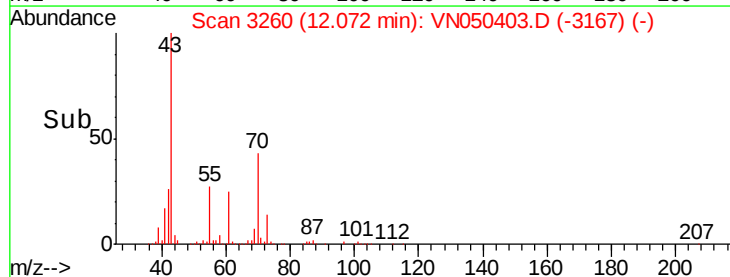
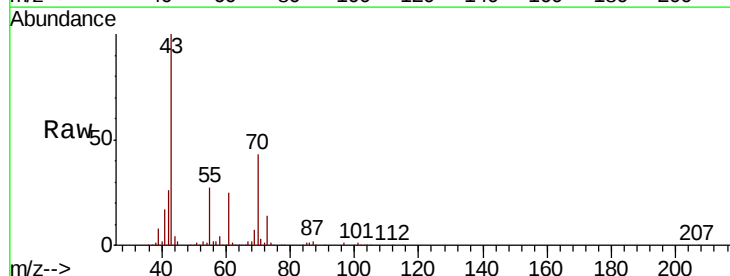
150000

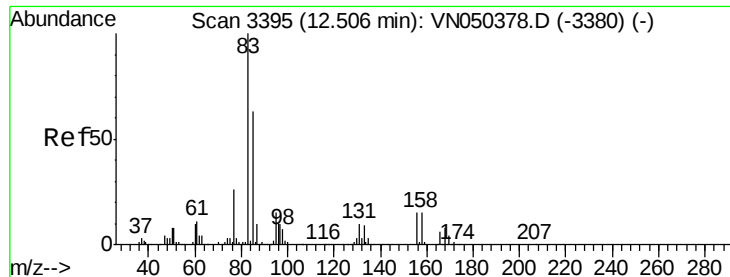
100000

50000

0

Time--> 12.00 12.10





#75

1,1,2,2-Tetrachloroethane

Concen: 20.85 ug/l

RT: 12.51 min Scan# 3395

Delta R.T. -0.00 min

Lab File: VN050403.D

Acq: 7 Aug 2018 00:08

Instrument :

MSVOA_N

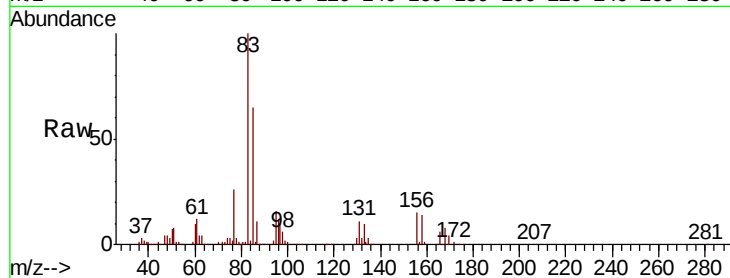
ClientSampleId :

VN0806WBSD02

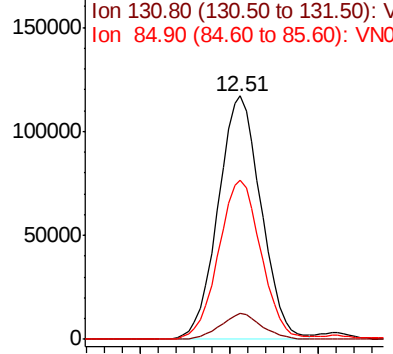
Tot Ion:	83	Resp:	196192
Ion Ratio	Lower	Upper	
83	100		
131	10.3	5.1	15.3
85	64.9	32.3	96.8

Manual Integrations
APPROVED

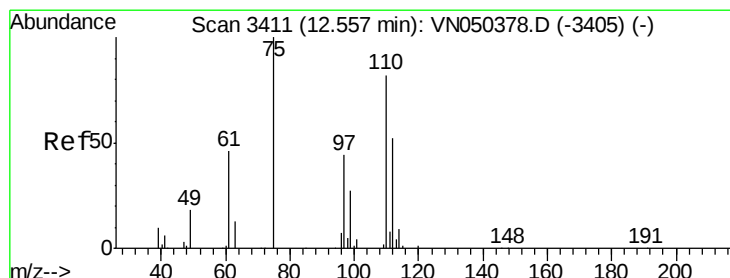
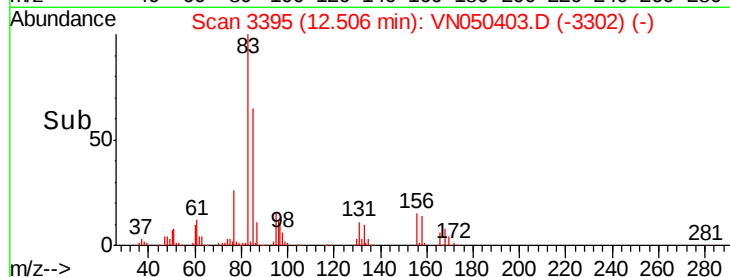
MMDadoda
8/7/2018 9:59:19 AM



Abundance Ion 82.90 (82.60 to 83.60): VN050403.D (-3302) (-)



Time-->



#76

1,2,3-Trichloropropane

Concen: 21.27 ug/l m

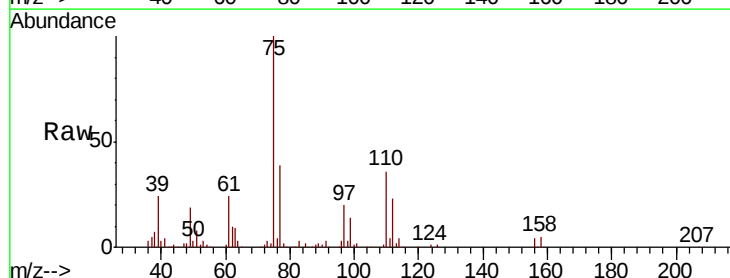
RT: 12.56 min Scan# 3411

Delta R.T. -0.00 min

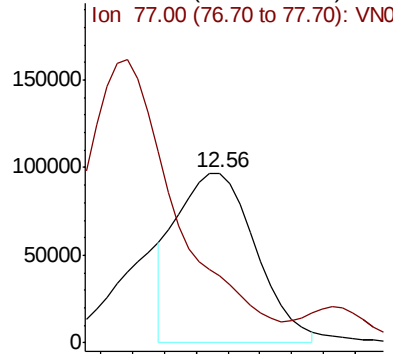
Lab File: VN050403.D

Acq: 7 Aug 2018 00:08

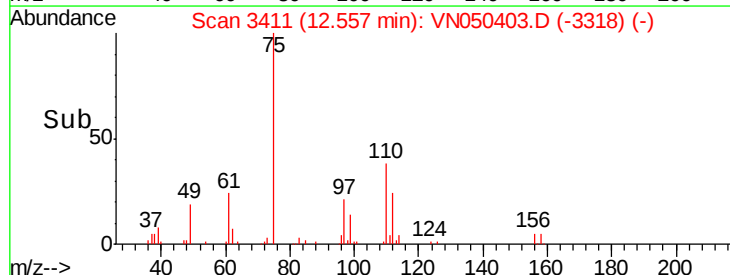
Tgt Ion:	75	Resp:	167275
Ion Ratio	Lower	Upper	
75	100		
77	0.0	0.0	0.0

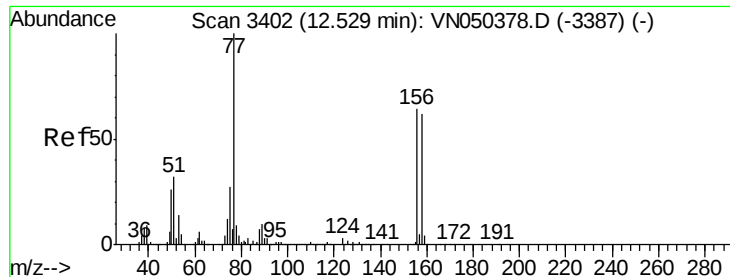


Abundance Ion 74.90 (74.60 to 75.60): VN050403.D (-3318) (-)



Time-->





#77

Bromobenzene

Concen: 20.74 ug/l

RT: 12.53 min Scan# 3402

Delta R.T. -0.00 min

Lab File: VN050403.D

Acq: 7 Aug 2018 00:08

Instrument :

MSVOA_N

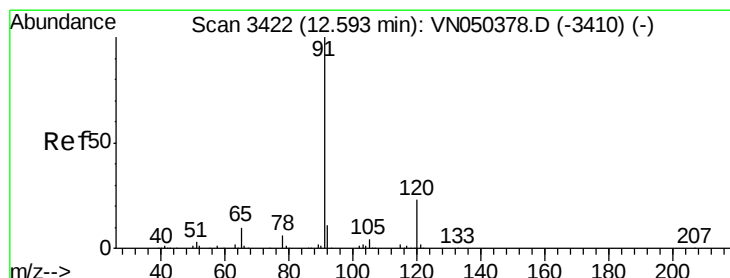
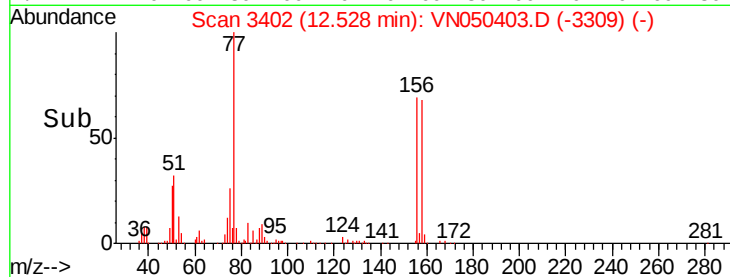
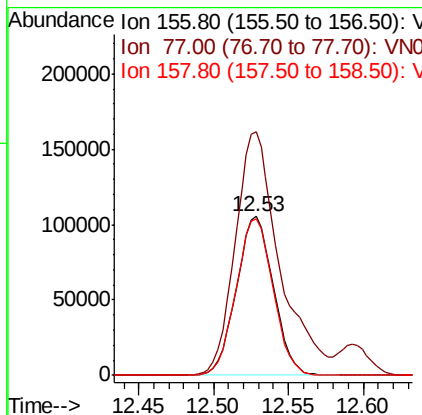
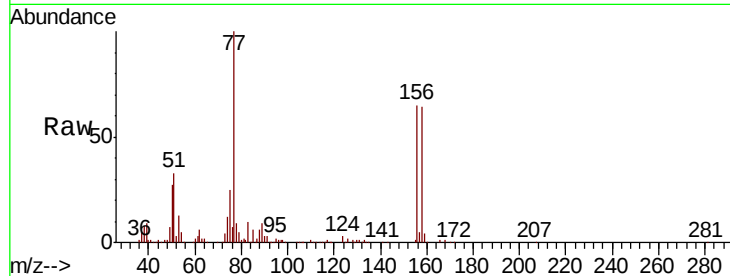
ClientSampleId :

VN0806WBSD02

Tot Ion:	156	Resp:	181248
Ion Ratio	Lower	Upper	
156	100		
77	183.4	91.7	275.1
158	98.5	48.9	146.6

Manual Integrations
APPROVED

MMDadoda
8/7/2018 9:59:19 AM



#78

n-propylbenzene

Concen: 21.01 ug/l

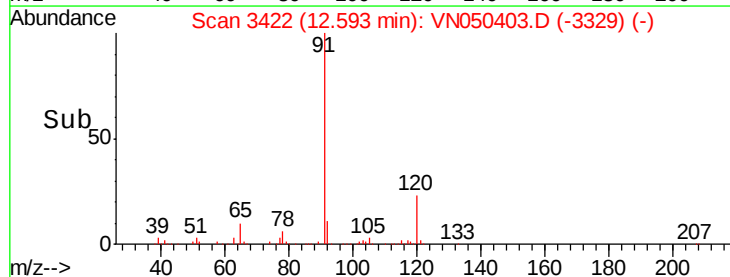
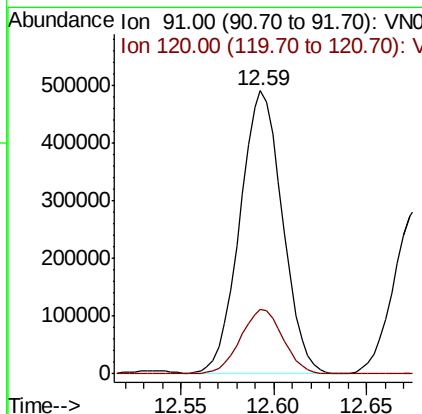
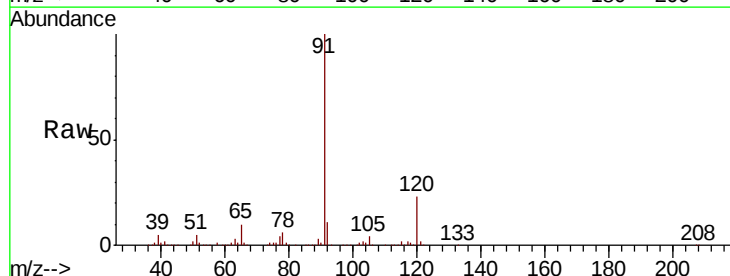
RT: 12.59 min Scan# 3422

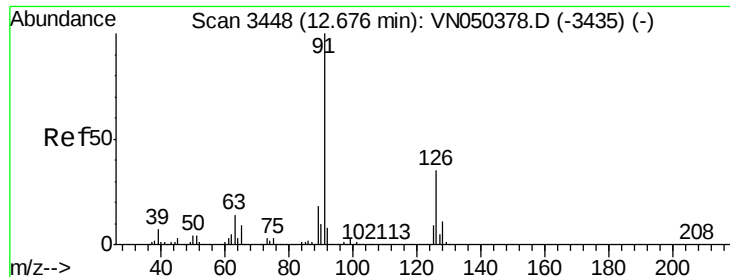
Delta R.T. -0.00 min

Lab File: VN050403.D

Acq: 7 Aug 2018 00:08

Tgt Ion:	91	Resp:	775736
Ion Ratio	Lower	Upper	
91	100		
120	22.9	11.6	34.7





#79

2-Chlorotoluene

Concen: 20.63 ug/l

RT: 12.68 min Scan# 3448

Delta R.T. -0.00 min

Lab File: VN050403.D

Acq: 7 Aug 2018 00:08

Instrument :

MSVOA_N

ClientSampled :

VN0806WBSD02

Tot Ion: 91 Resp: 470553

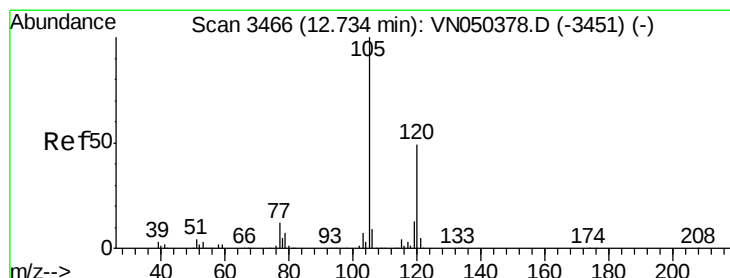
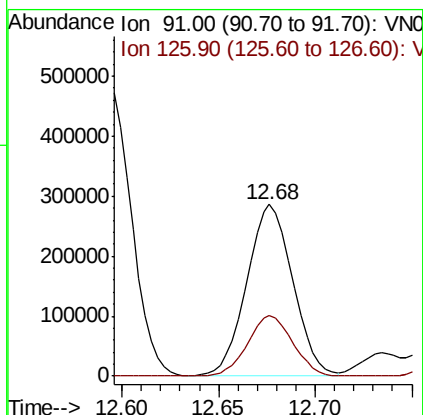
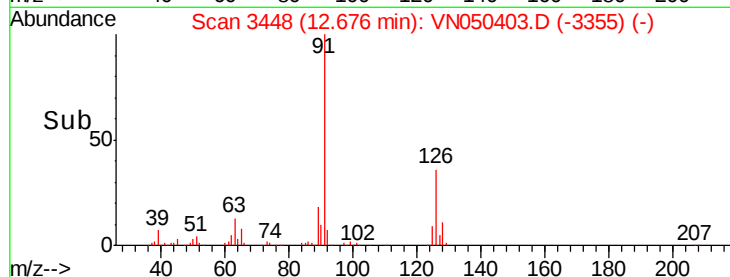
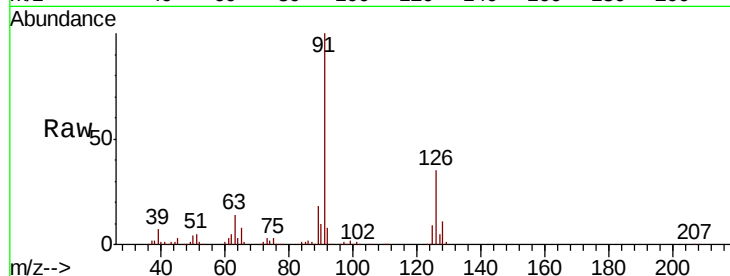
Ion Ratio Lower Upper

91 100

126 35.0 17.6 52.8

Manual Integrations
APPROVED

MMDadoda
8/7/2018 9:59:19 AM



#80

1,3,5-Trimethylbenzene

Concen: 21.19 ug/l

RT: 12.73 min Scan# 3466

Delta R.T. -0.00 min

Lab File: VN050403.D

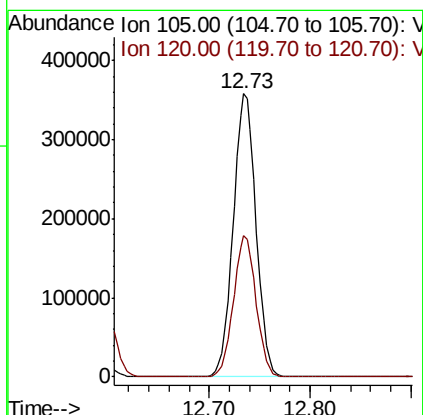
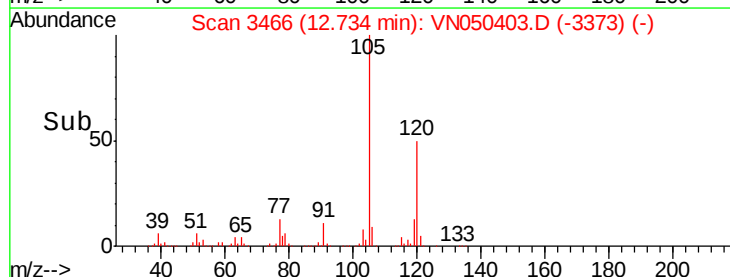
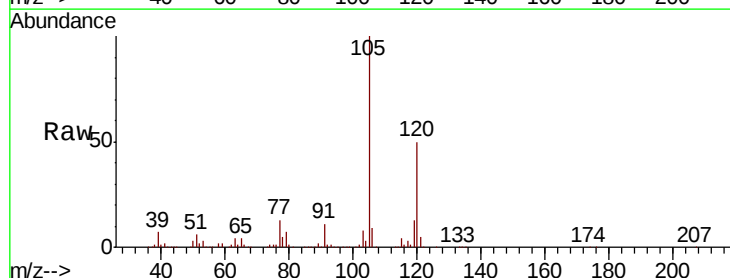
Acq: 7 Aug 2018 00:08

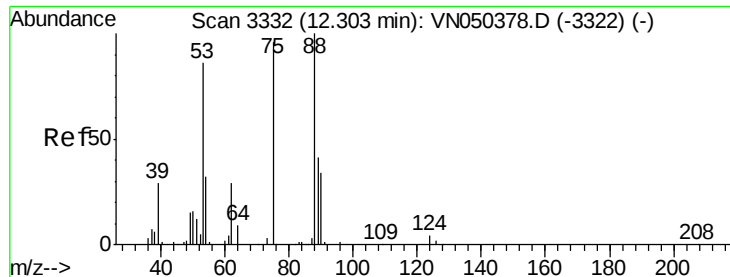
Tgt Ion: 105 Resp: 561197

Ion Ratio Lower Upper

105 100

120 49.2 24.4 73.2





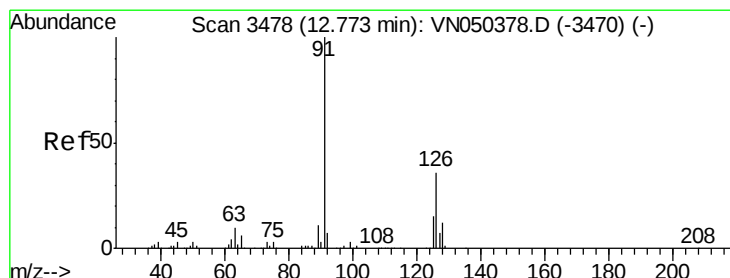
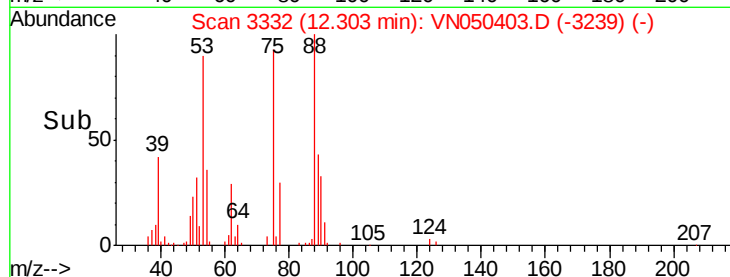
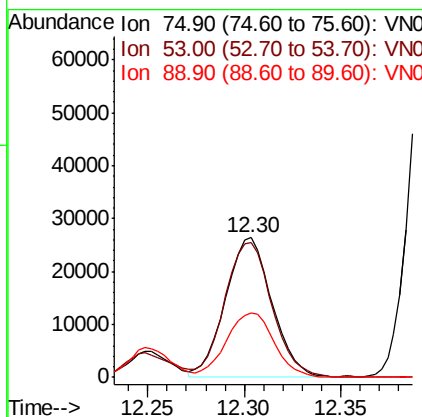
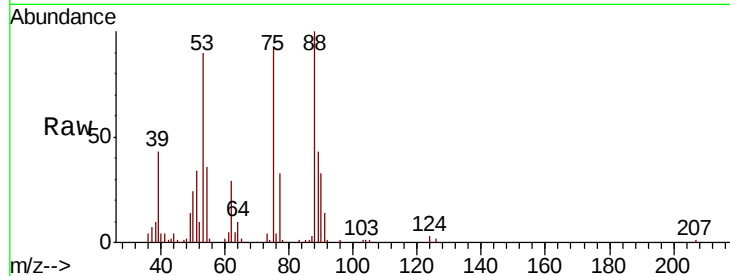
#81
trans-1,4-Dichloro-2-butene
Concen: 19.82 ug/l
RT: 12.30 min Scan# 3332
Delta R.T. -0.00 min
Lab File: VN050403.D
Acq: 7 Aug 2018 00:08

Instrument :
MSVOA_N
ClientSampleId :
VN0806WBSD02

Tot Ion	Ratio	Lower	Upper
75	100		
53	98.1	73.5	110.3
89	47.2	36.0	54.0

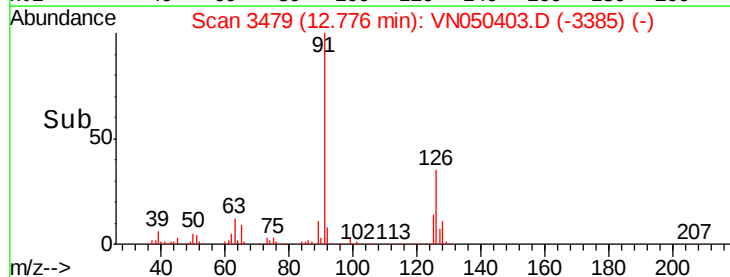
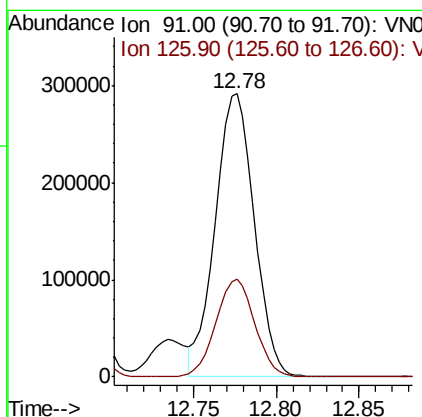
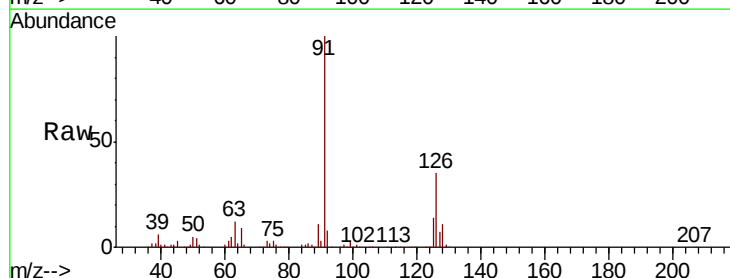
Manual Integrations
APPROVED

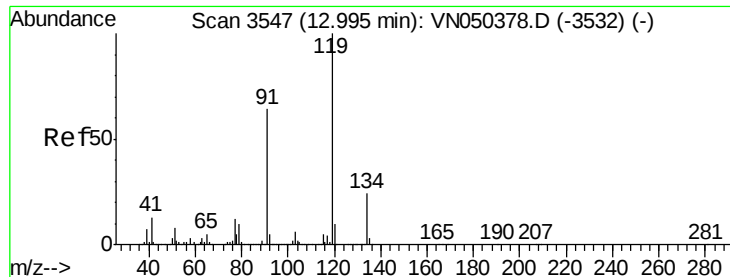
MMDadoda
8/7/2018 9:59:19 AM



#82
4-Chlorotoluene
Concen: 21.01 ug/l
RT: 12.78 min Scan# 3479
Delta R.T. 0.00 min
Lab File: VN050403.D
Acq: 7 Aug 2018 00:08

Tgt Ion	Ratio	Lower	Upper
91	100		
126	34.5	17.0	51.0





#83

tert-Butylbenzene

Concen: 20.43 ug/l

RT: 12.99 min Scan# 3547

Delta R.T. -0.00 min

Lab File: VN050403.D

Acq: 7 Aug 2018 00:08

Instrument :

MSVOA_N

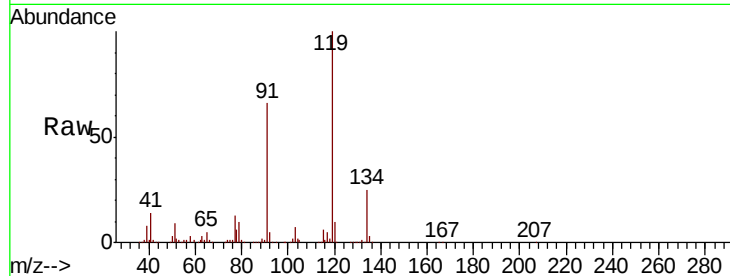
ClientSampleId :

VN0806WBSD02

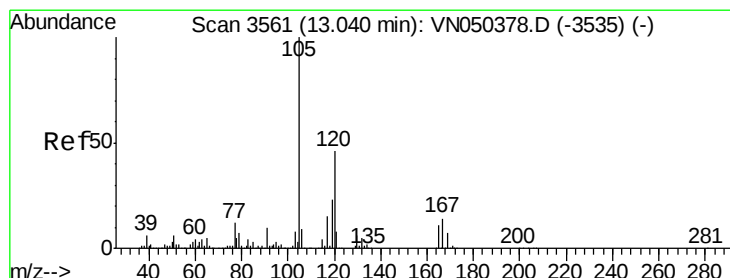
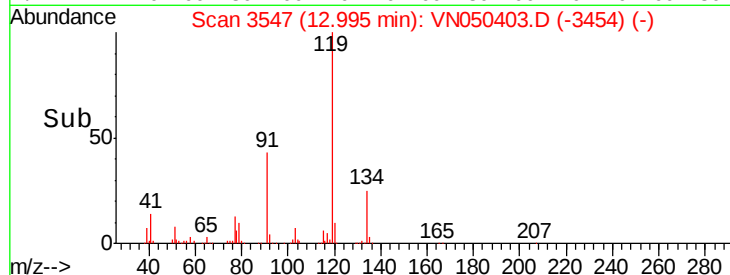
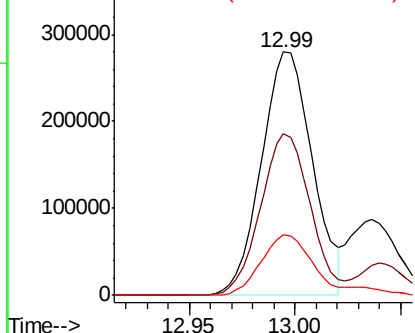
Tot Ion:	119	Resp:	471950
Ion Ratio	Lower	Upper	
119	100		
91	64.6	32.1	96.3
134	25.1	13.2	39.5

Manual Integrations
APPROVED

MMDadoda
8/7/2018 9:59:19 AM



Abundance Ion 119.00 (118.70 to 119.70): V
Ion 91.00 (90.70 to 91.70): V
Ion 134.00 (133.70 to 134.70): V



#84

1,2,4-Trimethylbenzene

Concen: 21.44 ug/l

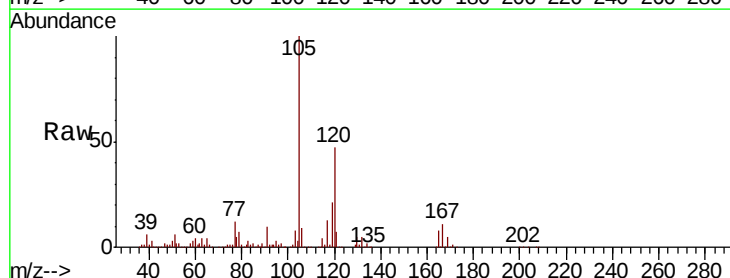
RT: 13.04 min Scan# 3562

Delta R.T. 0.00 min

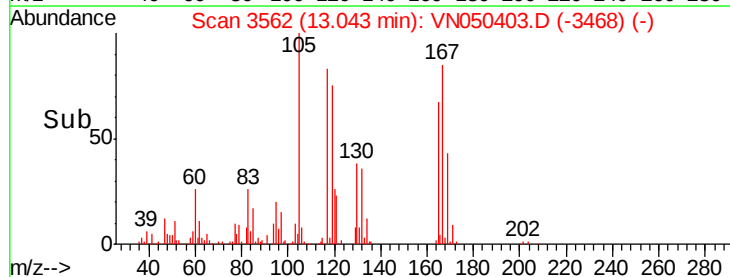
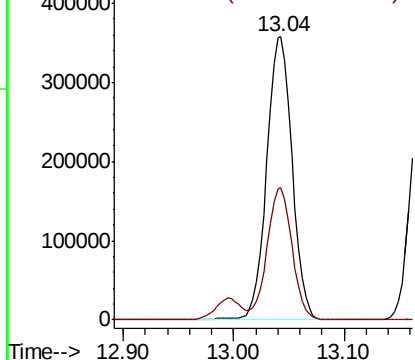
Lab File: VN050403.D

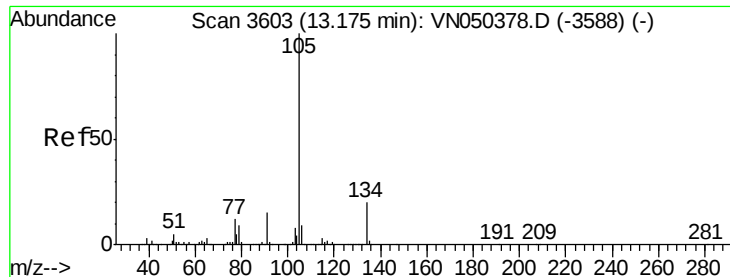
Acq: 7 Aug 2018 00:08

Tgt Ion:	105	Resp:	575024
Ion Ratio	Lower	Upper	
105	100		
120	45.7	22.9	68.7



Abundance Ion 105.00 (104.70 to 105.70): V
Ion 120.00 (119.70 to 120.70): V





#85

sec-Butylbenzene

Concen: 20.64 ug/l

RT: 13.17 min Scan# 3603

Delta R.T. -0.00 min

Lab File: VN050403.D

Acq: 7 Aug 2018 00:08

Instrument :

MSVOA_N

ClientSampleId :

VN0806WBSD02

Tot Ion:105 Resp: 635640

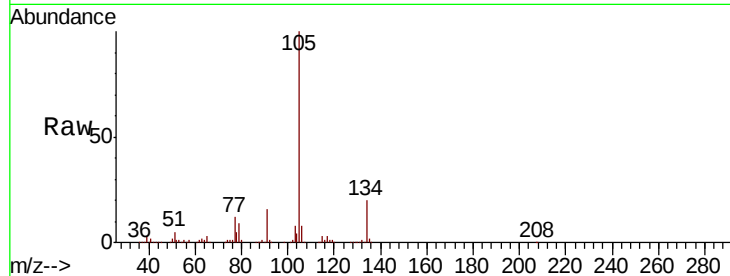
Ion Ratio Lower Upper

105 100

134 19.9 10.1 30.1

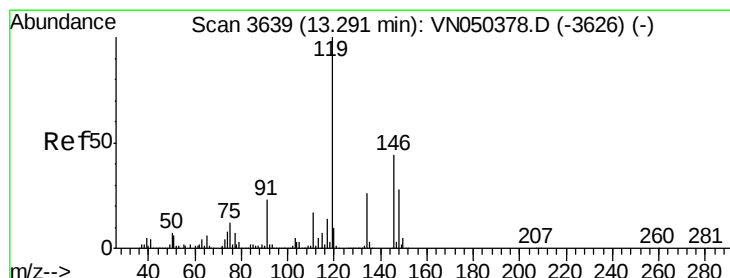
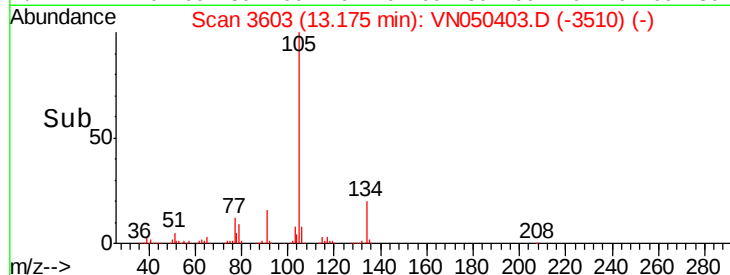
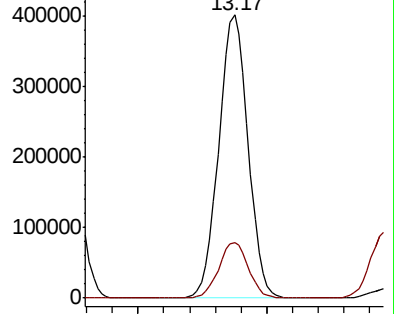
Manual Integrations
APPROVED

MMDadoda
8/7/2018 9:59:19 AM



Abundance Ion 105.00 (104.70 to 105.70): V

Ion 134.00 (133.70 to 134.70): V



#86

p-Isopropyltoluene

Concen: 20.74 ug/l

RT: 13.29 min Scan# 3639

Delta R.T. -0.00 min

Lab File: VN050403.D

Acq: 7 Aug 2018 00:08

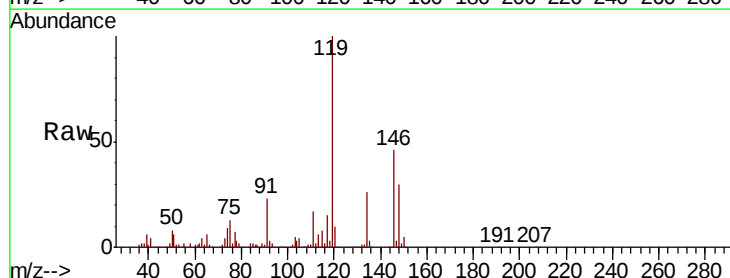
Tgt Ion:119 Resp: 547230

Ion Ratio Lower Upper

119 100

134 26.8 13.3 39.8

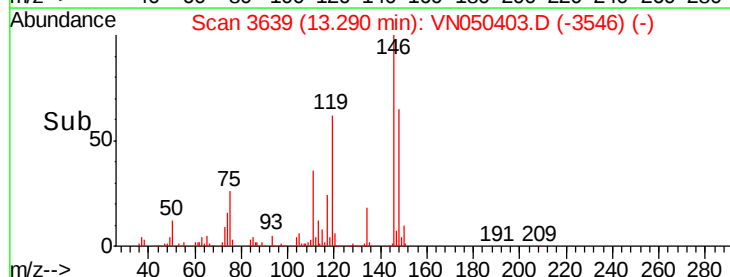
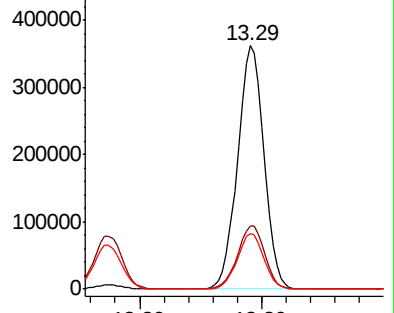
91 22.8 11.4 34.2

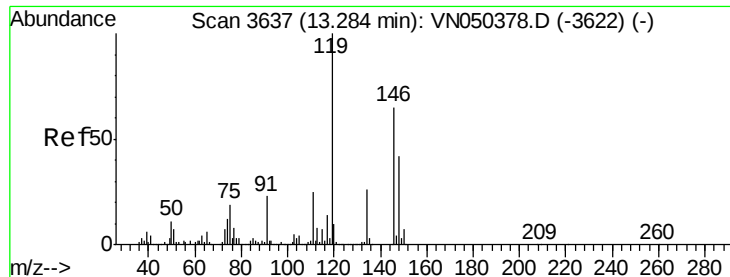


Abundance Ion 119.00 (118.70 to 119.70): V

Ion 134.00 (133.70 to 134.70): V

Ion 91.00 (90.70 to 91.70): V





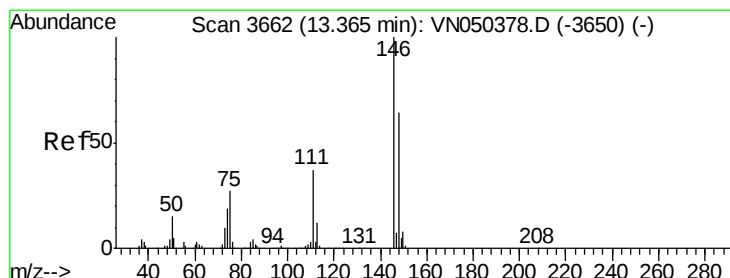
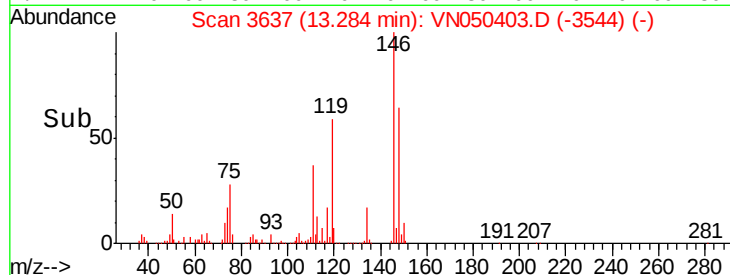
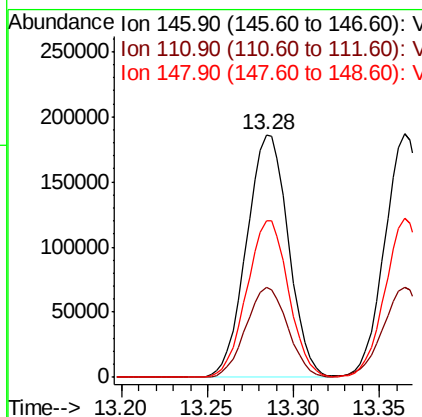
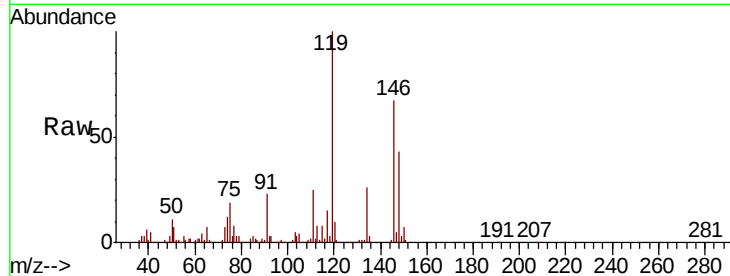
#87
 1,3-Dichlorobenzene
 Concen: 20.17 ug/l
 RT: 13.28 min Scan# 3637
 Delta R.T. -0.00 min
 Lab File: VN050403.D
 Acq: 7 Aug 2018 00:08

Instrument :
 MSVOA_N
 ClientSampleId :
 VN0806WBSD02

Tot Ion	Ratio	Lower	Upper
146	100		
111	37.0	18.8	56.4
148	64.4	31.9	95.9

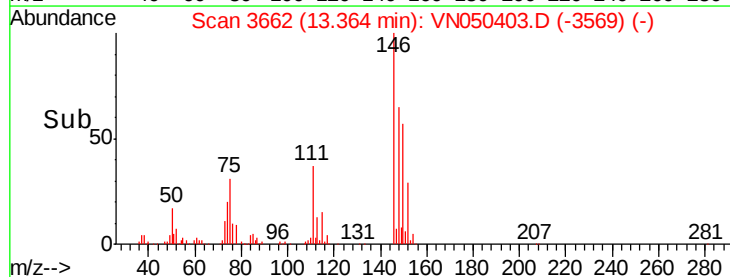
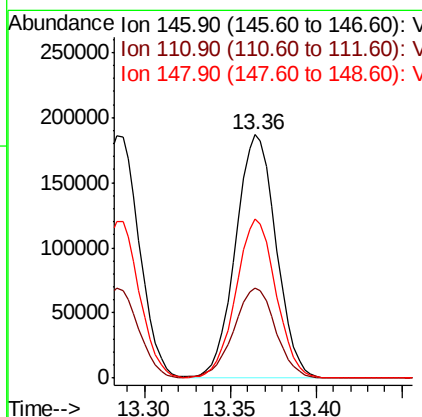
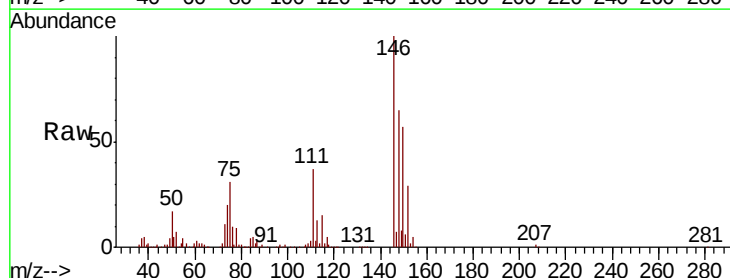
Manual Integrations
 APPROVED

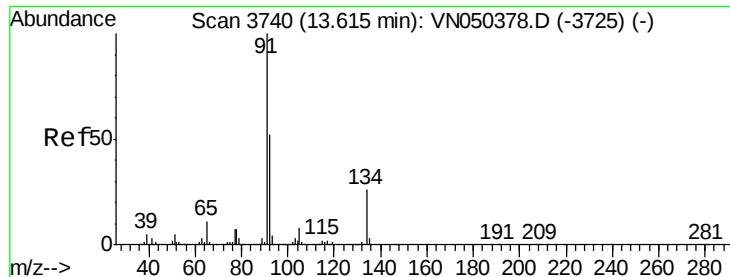
MMDadoda
 8/7/2018 9:59:19 AM



#88
 1,4-Dichlorobenzene
 Concen: 19.76 ug/l
 RT: 13.36 min Scan# 3662
 Delta R.T. -0.00 min
 Lab File: VN050403.D
 Acq: 7 Aug 2018 00:08

Tgt Ion	Ratio	Lower	Upper
146	100		
111	38.2	18.3	54.9
148	64.5	31.9	95.9





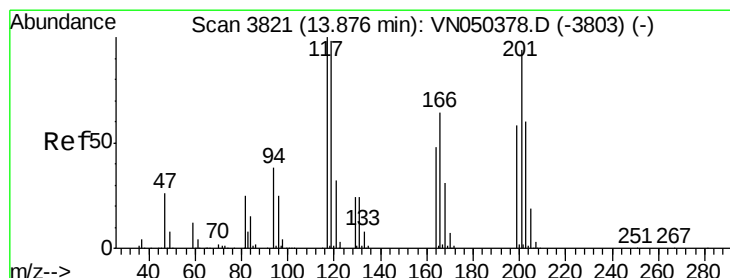
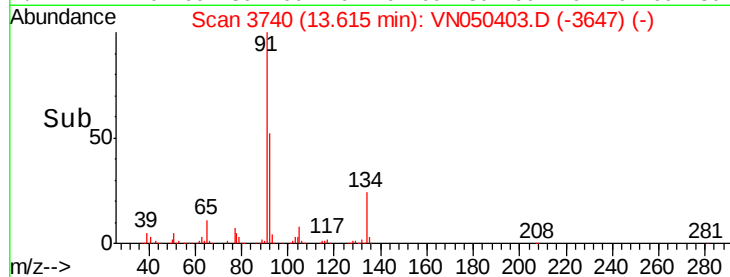
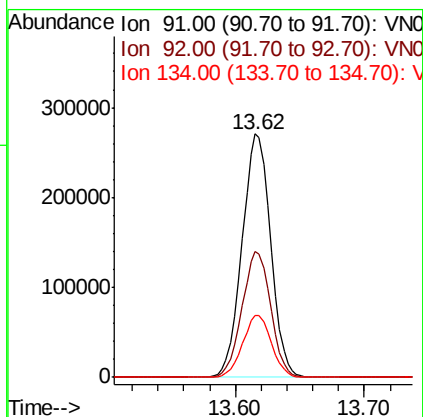
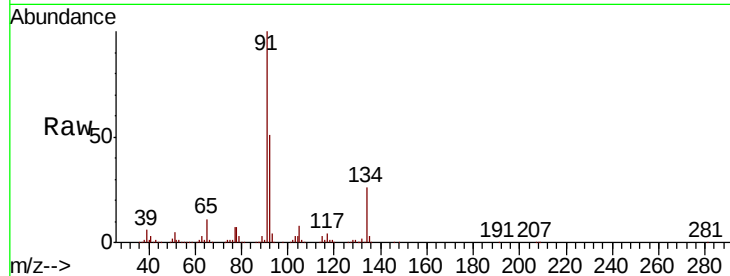
#89
n-Butylbenzene
Concen: 18.60 ug/l
RT: 13.62 min Scan# 3740
Delta R.T. -0.00 min
Lab File: VN050403.D
Acq: 7 Aug 2018 00:08

Instrument :
MSVOA_N
ClientSampleId :
VN0806WBSD02

Tot Ion	Ratio	Lower	Upper
91	100		
92	51.6	25.8	77.4
134	25.5	12.8	38.4

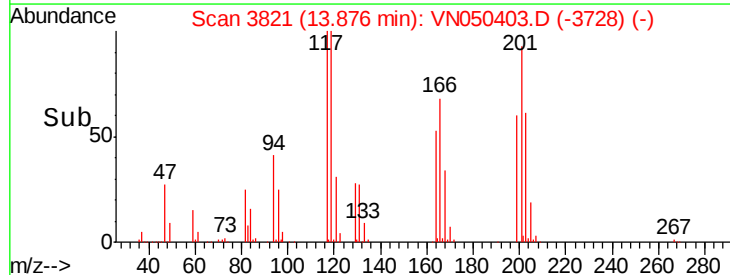
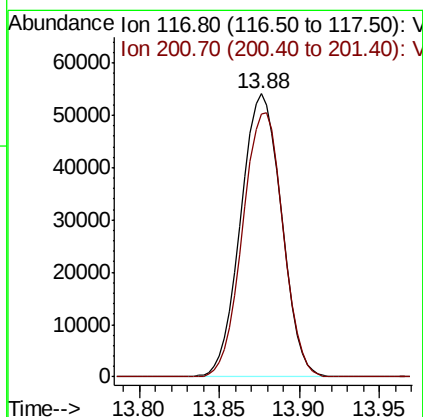
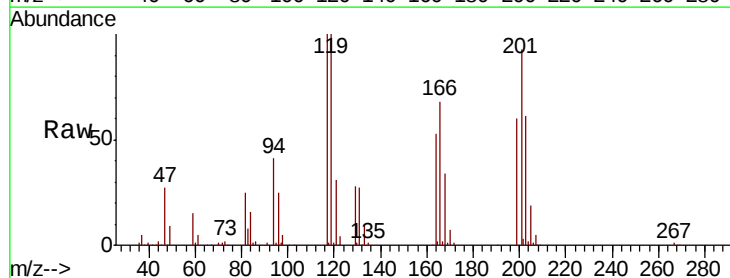
Manual Integrations
APPROVED

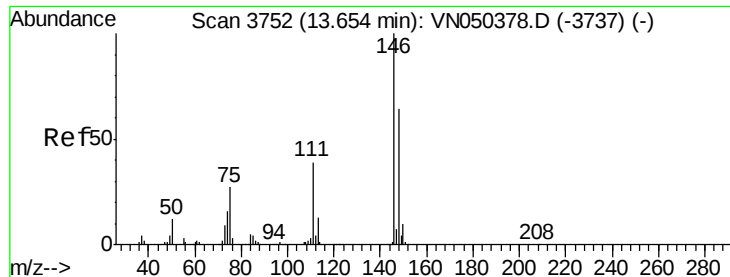
MMDadoda
8/7/2018 9:59:19 AM



#90
Hexachloroethane
Concen: 20.09 ug/l
RT: 13.88 min Scan# 3821
Delta R.T. -0.00 min
Lab File: VN050403.D
Acq: 7 Aug 2018 00:08

Tgt Ion	Ratio	Lower	Upper
117	100		
201	92.0	45.6	136.8





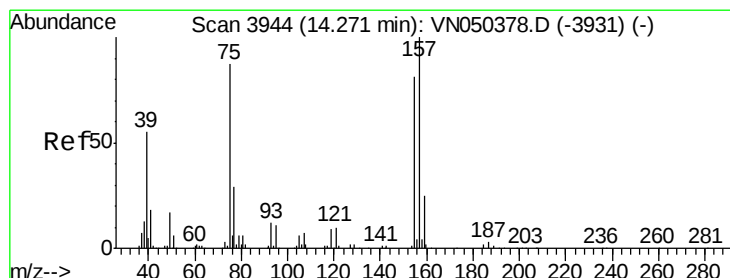
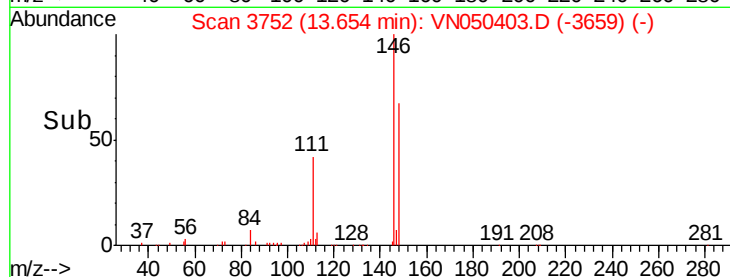
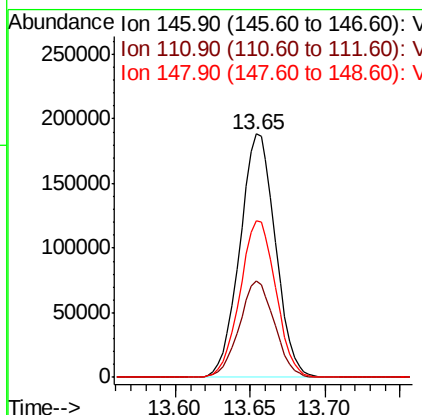
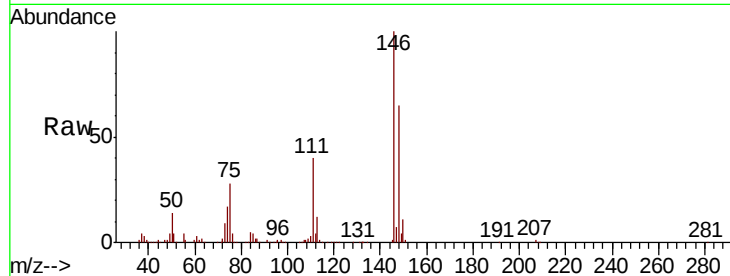
#91
 1,2-Dichlorobenzene
 Concen: 19.97 ug/l
 RT: 13.65 min Scan# 3752
 Delta R.T. -0.00 min
 Lab File: VN050403.D
 Acq: 7 Aug 2018 00:08

Instrument :
 MSVOA_N
 ClientSampleId :
 VN0806WBSD02

Tot Ion	Ratio	Lower	Upper
146	100		
111	38.9	19.6	58.7
148	64.7	32.1	96.3

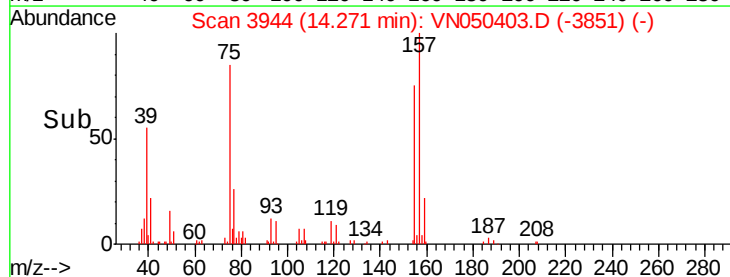
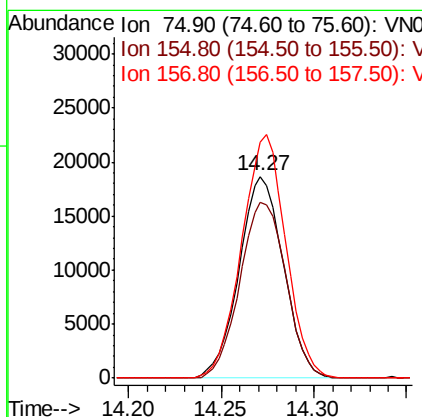
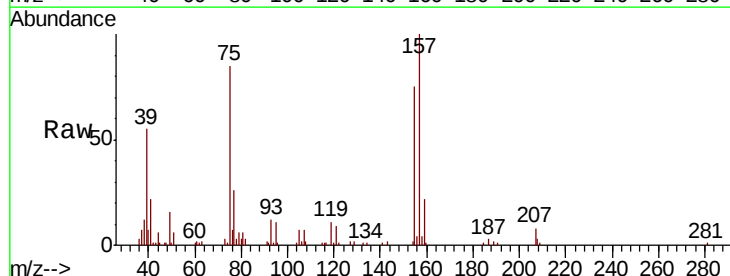
Manual Integrations
 APPROVED

MMDadoda
 8/7/2018 9:59:19 AM



#92
 1,2-Dibromo-3-Chloropropane
 Concen: 19.45 ug/l
 RT: 14.27 min Scan# 3944
 Delta R.T. -0.00 min
 Lab File: VN050403.D
 Acq: 7 Aug 2018 00:08

Tgt Ion	Ratio	Lower	Upper
75	100		
155	90.1	44.8	134.4
157	119.5	57.2	171.6





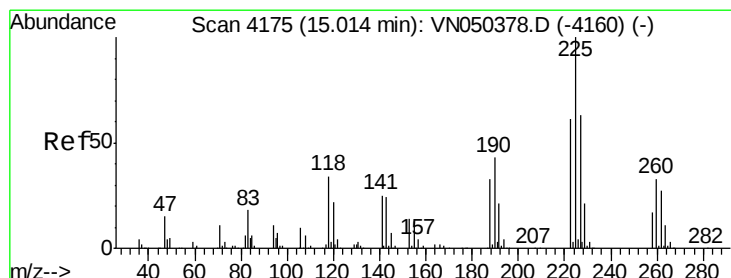
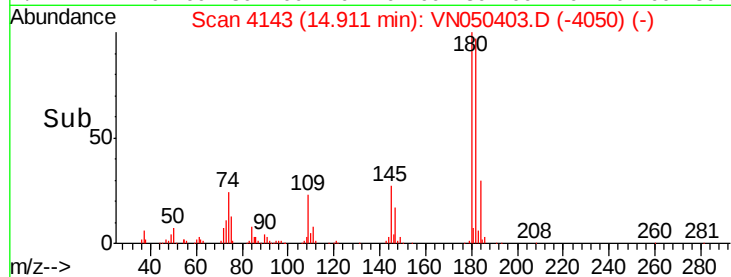
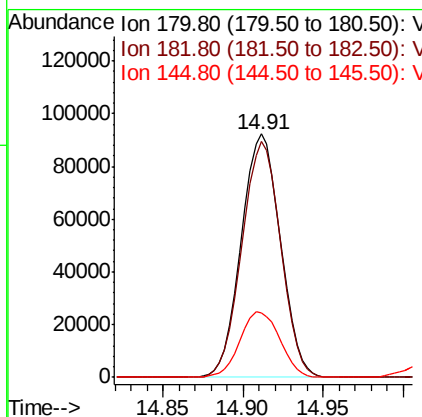
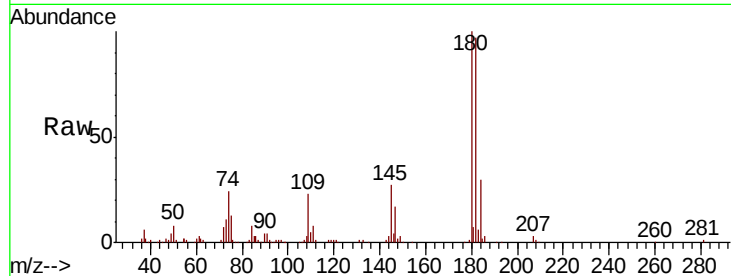
#93
 1,2,4-Trichlorobenzene
 Concen: 19.38 ug/l
 RT: 14.91 min Scan# 4143
 Delta R.T. -0.00 min
 Lab File: VN050403.D
 Acq: 7 Aug 2018 00:08

Instrument :
 MSVOA_N
 ClientSampleId :
 VN0806WBSD02

Tot Ion	Ratio	Resp	Lower	Upper
180	100	153985		
182	96.1	46.7	140.1	
145	27.5	13.8	41.4	

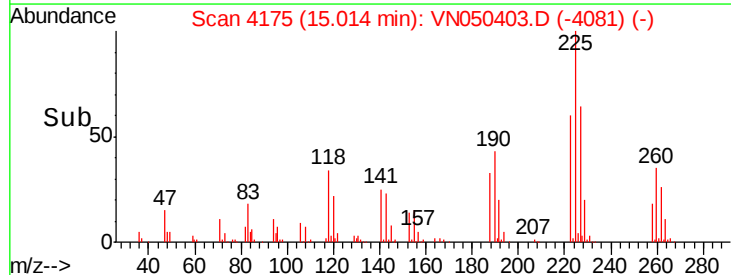
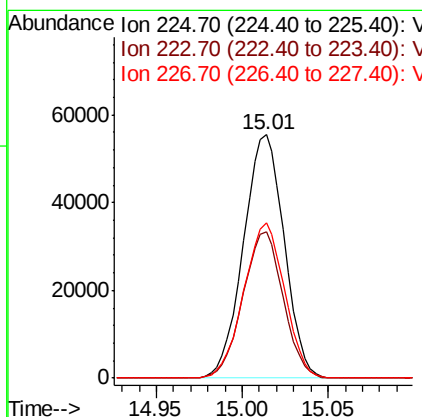
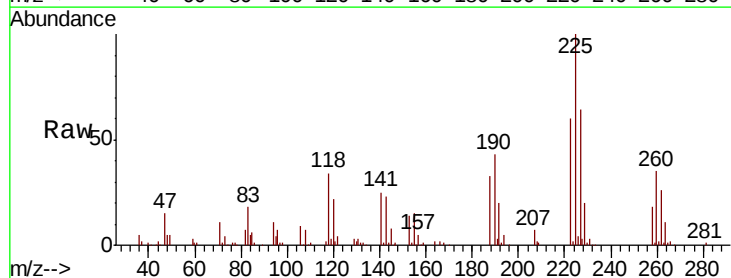
Manual Integrations
 APPROVED

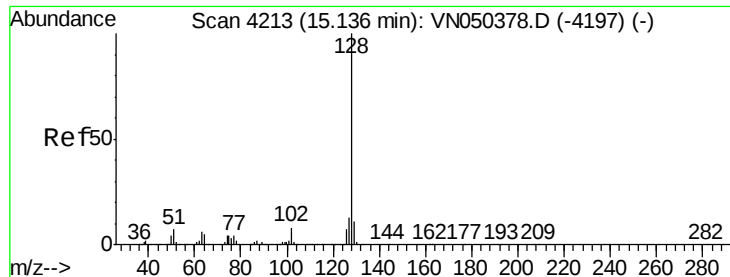
MMDadoda
 8/7/2018 9:59:19 AM



#94
 Hexachlorobutadiene
 Concen: 20.03 ug/l
 RT: 15.01 min Scan# 4175
 Delta R.T. 0.00 min
 Lab File: VN050403.D
 Acq: 7 Aug 2018 00:08

Tgt Ion	Ratio	Resp	Lower	Upper
225	100	91235		
223	59.4	31.4	94.2	
227	63.6	32.1	96.5	





#95

Naphthalene

Concen: 19.06 ug/l

RT: 15.14 min Scan# 4213

Delta R.T. 0.00 min

Lab File: VN050403.D

Acq: 7 Aug 2018 00:08

Instrument :

MSVOA_N

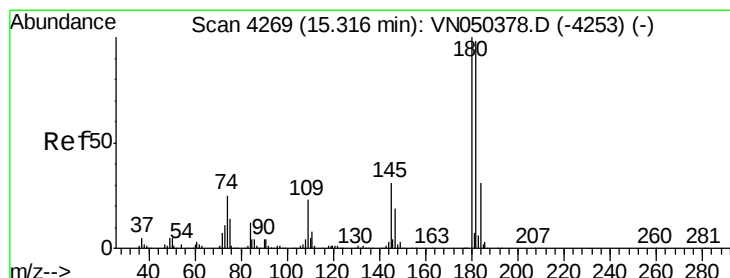
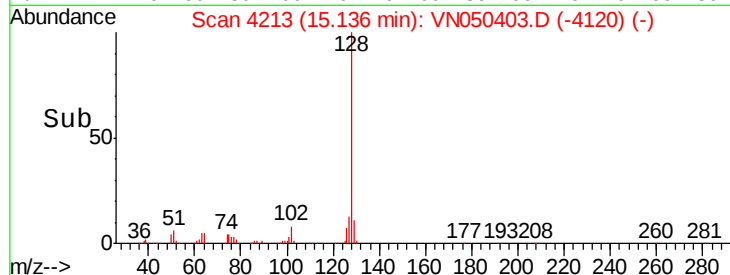
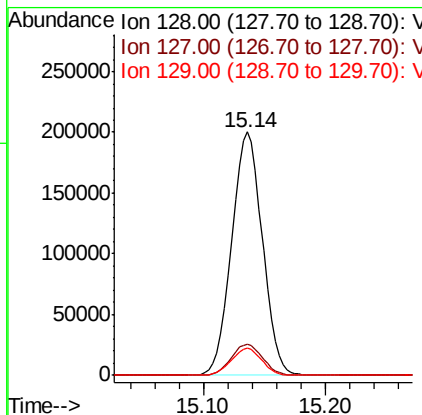
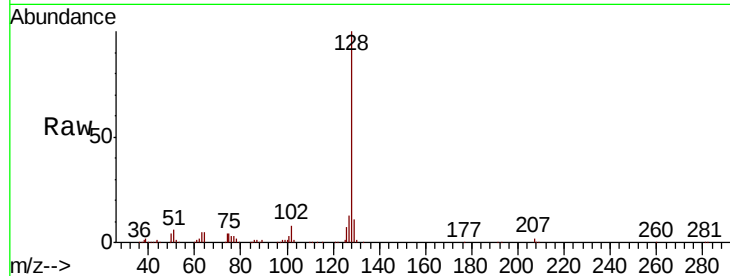
ClientSampleId :

VN0806WBSD02

Tot Ion:	128	Resp:	350244
Ion Ratio	Lower	Upper	
128	100		
127	13.1	10.4	15.6
129	11.0	8.8	13.2

Manual Integrations
APPROVED

MMDadoda
8/7/2018 9:59:19 AM



#96

1,2,3-Trichlorobenzene

Concen: 19.31 ug/l

RT: 15.32 min Scan# 4269

Delta R.T. -0.00 min

Lab File: VN050403.D

Acq: 7 Aug 2018 00:08

Tgt Ion:	180	Resp:	155146
Ion Ratio	Lower	Upper	
180	100		
182	94.2	48.1	144.4
145	29.4	15.3	45.9

