

Data Path : Z:\VOASRV\HPCHEM1\MSVOA N\DATA\VN082018\
 Data File : VN050767.D
 Acq On : 20 Aug 2018 12:08
 Operator : MD\SY
 Sample : VN0820WBSD01
 Misc : 5.00mL/MSVOA N/WATER
 ALS Vial : 6 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleID :
 VN0820WBSD01

Manual Integrations
 APPROVED

MMDadoda
 8/21/2018 2:13:04 PM

Quant Time: Aug 21 03:12:57 2018
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA N\METHODS\624N072518W.M
 Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS
 QLast Update : Thu Jul 26 15:21:50 2018
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	7.20	128	114534	30.00	ug/l	0.00
28) 1,4-Difluorobenzene	8.59	114	616062	30.00	ug/l	0.00
57) Chlorobenzene-d5	11.41	117	546874	30.00	ug/l	0.00

System Monitoring Compounds

27) 1,2-Dichloroethane-d4	8.03	65	227745	29.25	ug/l	0.00
Spiked Amount	30.000	Range	50 - 169	Recovery	=	97.50%
60) 4-Bromofluorobenzene	12.40	95	250254	29.79	ug/l	0.00
Spiked Amount	30.000	Range	56 - 143	Recovery	=	99.30%
63) Toluene-d8	10.09	98	791705	30.31	ug/l	0.00
Spiked Amount	30.000	Range	66 - 137	Recovery	=	101.03%

Target Compounds

						Ovalue
2) Dichlorodifluoromethane	1.85	85	122591	15.53	ug/l	97
3) Chloromethane	2.06	50	164948	20.27	ug/l	100
4) Vinyl Chloride	2.18	62	165583	19.11	ug/l	99
5) Bromomethane	2.57	94	94007	17.80	ug/l	99
6) Chloroethane	2.70	64	100624	19.64	ug/l	96
7) Trichlorofluoromethane	3.01	101	215209	19.01	ug/l	98
8) Diethyl Ether	3.41	74	73282	19.30	ug/l	94
9) 1,1,2-Trichlorotrifluoroet	3.76	101	137777	20.01	ug/l	99
10) 1,1-Dichloroethene	3.74	96	122498	20.06	ug/l	95
11) Methyl Iodide	3.95	142	77727	8.65	ug/l	98
12) Methyl Acetate	4.33	43	116420	16.64	ug/l	98
13) Acrolein	3.61	56	35624	82.40	ug/l	97
14) Acrylonitrile	5.00	53	218926	93.79	ug/l	97
15) Acetone	3.82	58	66114	106.58	ug/l	82
16) Carbon Disulfide	4.05	76	355412	19.02	ug/l	100
17) Allyl chloride	4.32	41	189482	19.65	ug/l	95
18) Methylene Chloride	4.55	84	149268	21.18	ug/l	98
19) trans-1,2-Dichloroethene	5.05	96	132259	20.23	ug/l	94
20) Diisopropyl ether	5.96	45	422679	21.38	ug/l	99
21) 1,1-Dichloroethane	5.85	63	257103	20.68	ug/l	98
22) cis-1,2-Dichloroethene	6.83	96	146926	20.26	ug/l	98
23) tert-Butyl Alcohol	4.79	59	41393	79.36	ug/l #	100
24) Methyl tert-Butyl Ether	5.05	73	318198	19.11	ug/l	99
25) Chloroform	7.37	83	258710	20.55	ug/l	98
26) Cyclohexane	7.66	56	200938	20.34	ug/l #	98
29) 1,1-Dichloropropene	7.80	75	189763	19.85	ug/l	99
30) 2-Butanone	6.84	43	297781	99.26	ug/l	98
31) 2,2-Dichloropropane	6.83	77	203041	19.21	ug/l	100
32) 1,1,1-Trichloroethane	7.57	97	214545	19.06	ug/l	99
33) Carbon Tetrachloride	7.77	117	191076	19.05	ug/l	99
34) Benzene	8.04	78	582320	20.06	ug/l	99
35) Methacrylonitrile	7.18	41	52531	15.38	ug/l	97
36) 1,2-Dichloroethane	8.13	62	181370	19.02	ug/l	100
37) Trichloroethene	8.84	130	152432	20.02	ug/l	95
38) Methylcyclohexane	9.08	83	187888	18.64	ug/l	99
39) 1,2-Dichloropropane	9.12	63	155916	20.38	ug/l	97
40) Dibromomethane	9.21	93	90576	19.16	ug/l	99

Data Path : Z:\VOASRV\HPCHEM1\MSVOA N\DATA\VN082018\
 Data File : VN050767.D
 Acq On : 20 Aug 2018 12:08
 Operator : MD\SY
 Sample : VN0820WBSD01
 Misc : 5.00mL/MSVOA N/WATER
 ALS Vial : 6 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 VN0820WBSD01

Manual Integrations
 APPROVED

MMDadoda
 8/21/2018 2:13:04 PM

Quant Time: Aug 21 03:12:57 2018
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA N\METHODS\624N072518W.M
 Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS
 QLast Update : Thu Jul 26 15:21:50 2018
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
41) Bromodichloromethane	9.40	83	195481	19.60	ug/l	98
42) Vinyl Acetate	5.90	43	1296541	91.84	ug/l	100
43) Ethyl Acetate	6.93	43	95115	15.18	ug/l	95
44) Isopropyl Acetate	8.17	43	189216	16.30	ug/l	98
45) 1,4-Dioxane	9.20	88	25719	336.78	ug/l	93
46) Methyl methacrylate	9.20	41	91416	16.25	ug/l	99
47) n-amyl Acetate	12.07	43	145705	16.13	ug/l	96
48) t-1,3-Dichloropropene	10.38	75	184768	19.44	ug/l	98
49) cis-1,3-Dichloropropene	9.84	75	217174	19.45	ug/l	98
50) 1,1,2-Trichloroethane	10.56	97	131033	19.31	ug/l	97
51) Ethyl methacrylate	10.43	69	142909	17.35	ug/l	98
52) 1,3-Dichloropropane	10.71	76	214517	19.25	ug/l	99
53) Dibromochloromethane	10.90	129	147298	19.13	ug/l	100
54) 1,2-Dibromoethane	11.01	107	121614	18.30	ug/l	99
55) 2-Chloroethyl vinyl ether	9.70	63	339630	91.11	ug/l	99
56) Bromoform	12.13	173	96718	17.79	ug/l	99
58) 4-Methyl-2-Pentanone	9.99	43	682433	107.24	ug/l	99
59) 2-Hexanone	10.75	43	427147	98.39	ug/l	100
61) Tetrachloroethene	10.63	164	141997	19.17	ug/l	100
62) Toluene	10.16	91	628886	20.16	ug/l	100
64) Chlorobenzene	11.44	112	382788	20.23	ug/l	99
65) 1,1,1,2-Tetrachloroethane	11.51	131	146670	19.87	ug/l	99
66) Ethyl Benzene	11.51	91	627717	19.69	ug/l	100
67) m/p-Xylenes	11.62	106	500378	40.78	ug/l	99
68) o-Xylene	11.95	106	237746	20.36	ug/l	99
69) Styrene	11.96	104	375958	20.09	ug/l	99
70) Isopropylbenzene	12.25	105	630074	20.26	ug/l	99
71) 1,1,2,2-Tetrachloroethane	12.50	83	160071	18.75	ug/l	99
72) 1,2,3-Trichloropropane	12.55	75	126512m	17.35	ug/l	
73) Bromobenzene	12.53	156	160064	19.32	ug/l	98
74) n-propylbenzene	12.59	91	705523	19.48	ug/l	99
75) 2-Chlorotoluene	12.68	91	439606	20.21	ug/l	98
76) 1,3,5-Trimethylbenzene	12.73	105	522091	20.44	ug/l	100
77) t-1,4-Dichloro-2-butene	12.30	75	35176	14.76	ug/l	96
78) 4-Chlorotoluene	12.77	91	424527	19.70	ug/l	99
79) tert-butylbenzene	12.99	119	436037	19.97	ug/l	99
80) 1,2,4-Trimethylbenzene	13.04	105	519623	20.08	ug/l	98
81) sec-Butylbenzene	13.17	105	577611	19.47	ug/l	100
82) p-Isopropyltoluene	13.29	119	495024	19.56	ug/l	99
83) 1,3-Dichlorobenzene	13.28	146	270996	18.79	ug/l	99
84) 1,4-Dichlorobenzene	13.36	146	254476	18.67	ug/l	99
85) n-Butylbenzene	13.62	91	358526	17.46	ug/l	99
86) Hexachloroethane	13.87	117	91739	18.14	ug/l	99
87) 1,2-Dichlorobenzene	13.65	146	271530	19.26	ug/l	99
88) 1,2-Dibromo-3-Chloropropan	14.27	75	20533	15.44	ug/l	98
89) 1,2,4-Trichlorobenzene	14.91	180	100084	14.86	ug/l	99
90) Hexachlorobutadiene	15.01	225	83989	18.92	ug/l	98
91) Naphthalene	15.13	128	188633	16.58	ug/l	98
92) 1,2,3-Trichlorobenzene	15.32	180	104046	15.19	ug/l	99

Data Path : Z:\VOASRV\HPCHEM1\MSVOA N\DATA\VN082018\
Data File : VN050767.D
Acq On : 20 Aug 2018 12:08
Operator : MD\SY
Sample : VN0820WBSD01
Misc : 5.00mL/MSVOA N/WATER
ALS Vial : 6 Sample Multiplier: 1

Instrument :
MSVOA_N
ClientSampleId :
VN0820WBSD01

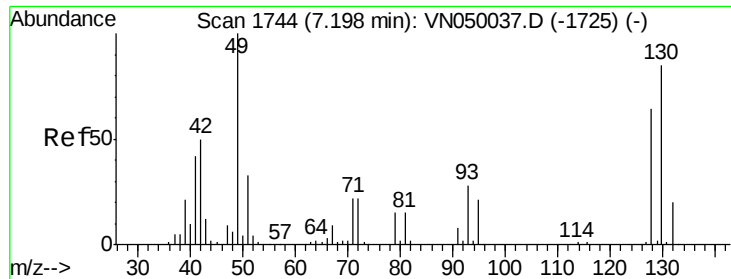
Manual Integrations
APPROVED

MMDadoda
8/21/2018 2:13:04 PM

Quant Time: Aug 21 03:12:57 2018
Quant Method : Z:\VOASRV\HPCHEM1\MSVOA N\METHODS\624N072518W.M
Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS
QLast Update : Thu Jul 26 15:21:50 2018
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
--------------------	------	------	----------	------	-------	----------

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



#1

Bromochloromethane

Concen: 30.00 ug/l

RT: 7.20 min Scan# 1745

Delta R.T. 0.00 min

Lab File: VN050767.D

Acq: 20 Aug 2018 12:08

Instrument :

MSVOA_N

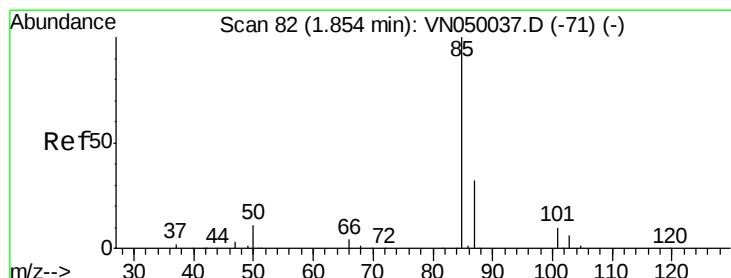
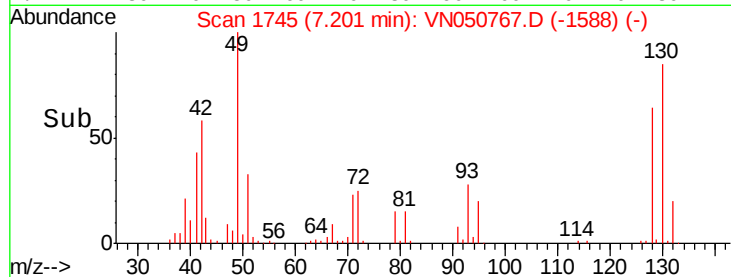
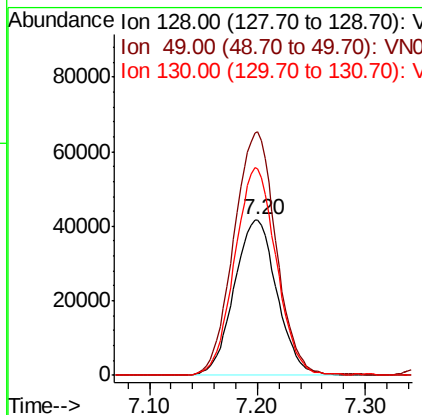
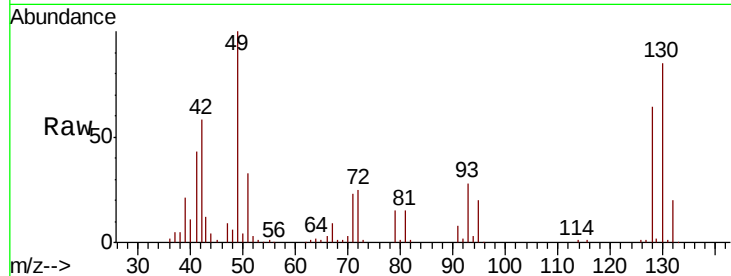
ClientSampleId :

VN0820WBSD01

Tot Ion:	128	Resp:	114534
Ion	Ratio	Lower	Upper
128	100		
49	154.9	0.0	378.3
130	130.4	0.0	320.7

Manual Integrations
APPROVED

MMDadoda
8/21/2018 2:13:04 PM



#2

Dichlorodifluoromethane

Concen: 15.53 ug/l

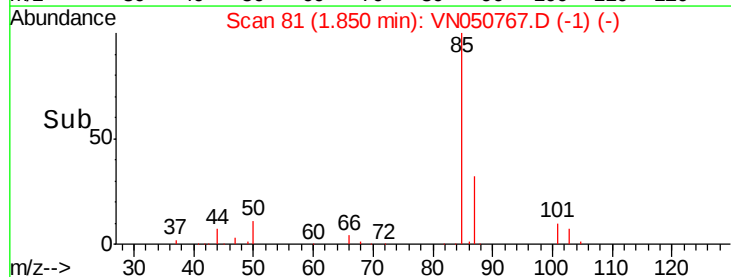
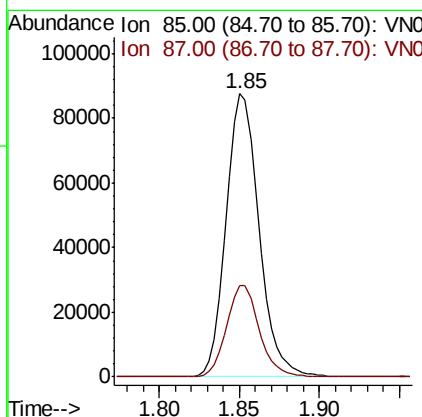
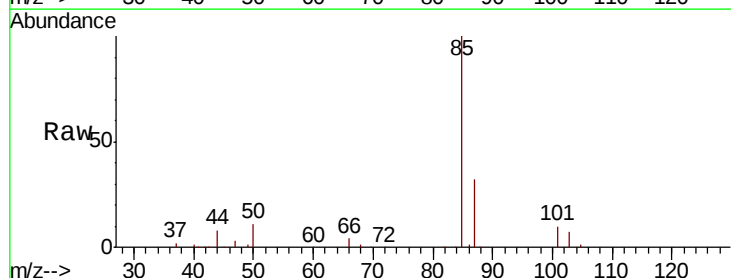
RT: 1.85 min Scan# 81

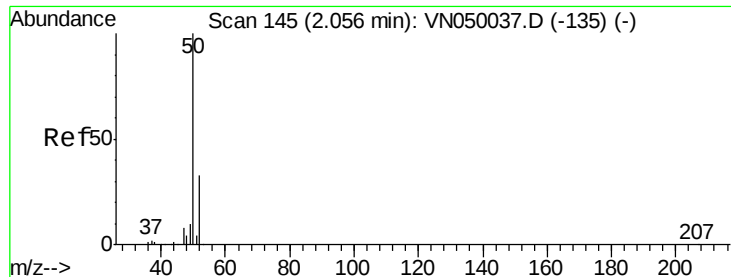
Delta R.T. -0.00 min

Lab File: VN050767.D

Acq: 20 Aug 2018 12:08

Tgt Ion:	85	Resp:	122591
Ion	Ratio	Lower	Upper
85	100		
87	32.4	15.4	46.4





#3

Chloromethane

Concen: 20.27 ug/l

RT: 2.06 min Scan# 145

Delta R.T. 0.00 min

Lab File: VN050767.D

Acq: 20 Aug 2018 12:08

Instrument :

MSVOA_N

ClientSampleId :

VN0820WBSD01

Tot Ion: 50 Resp: 164948

Ion Ratio Lower Upper

50 100

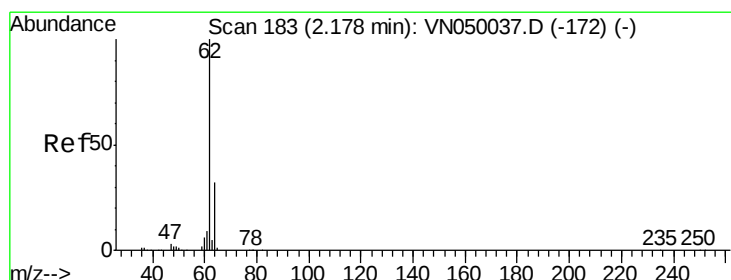
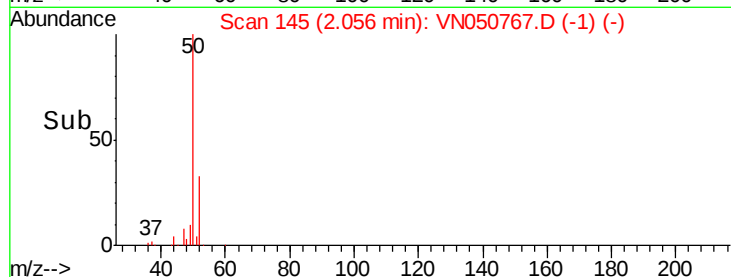
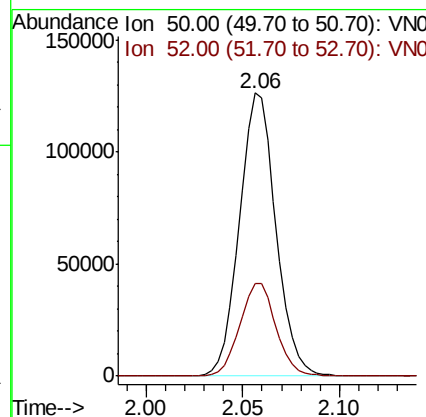
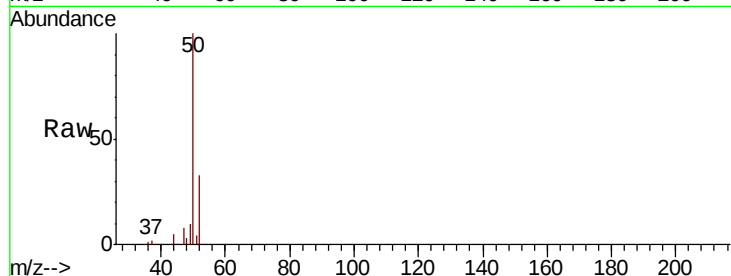
52 32.6 26.1 39.1

Manual Integrations

APPROVED

MMDadoda

8/21/2018 2:13:04 PM



#4

Vinyl Chloride

Concen: 19.11 ug/l

RT: 2.18 min Scan# 185

Delta R.T. 0.01 min

Lab File: VN050767.D

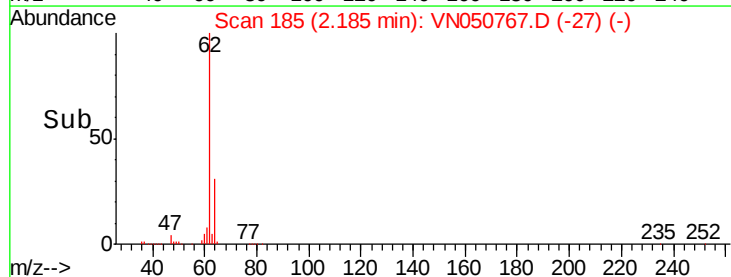
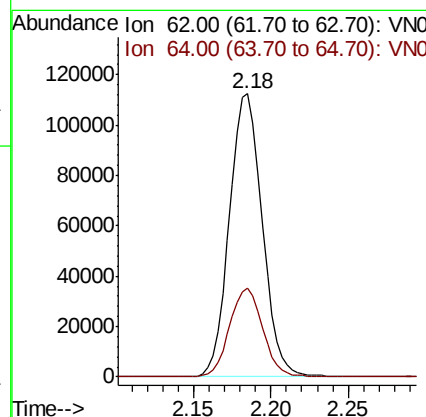
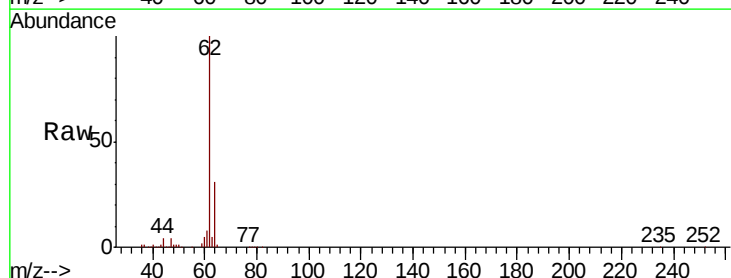
Acq: 20 Aug 2018 12:08

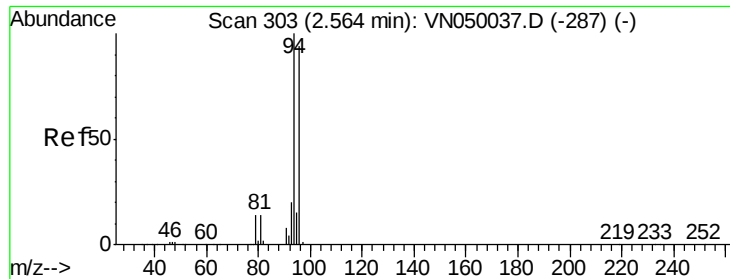
Tgt Ion: 62 Resp: 165583

Ion Ratio Lower Upper

62 100

64 31.2 24.4 36.6





#5

Bromomethane

Concen: 17.80 ug/l

RT: 2.57 min Scan# 304

Delta R.T. 0.00 min

Lab File: VN050767.D

Acq: 20 Aug 2018 12:08

Instrument :

MSVOA_N

ClientSampleId :

VN0820WBSD01

Tot Ion: 94 Resp: 94007

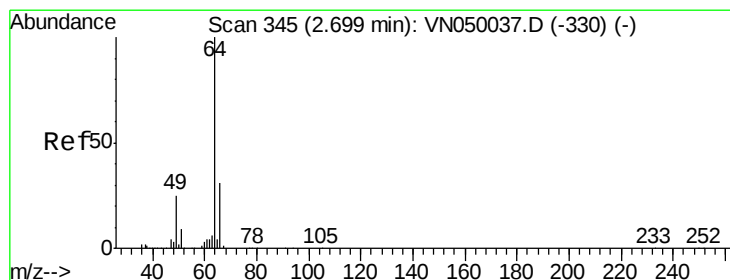
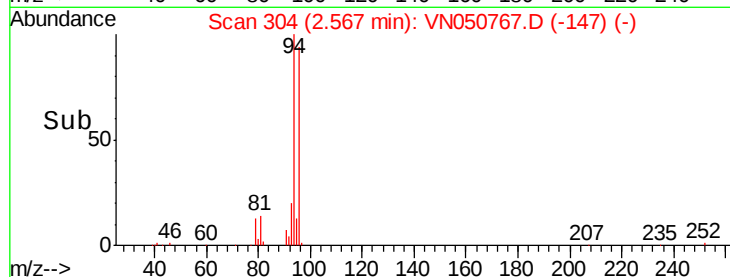
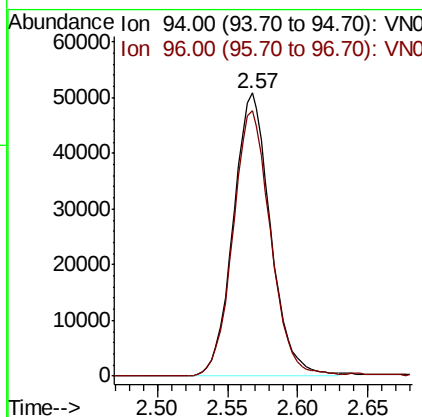
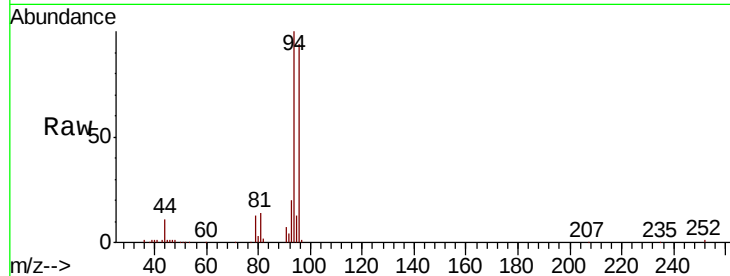
Ion Ratio Lower Upper

94 100

96 93.7 75.9 113.9

Manual Integrations
APPROVED

MMDadoda
8/21/2018 2:13:04 PM



#6

Chloroethane

Concen: 19.64 ug/l

RT: 2.70 min Scan# 346

Delta R.T. 0.00 min

Lab File: VN050767.D

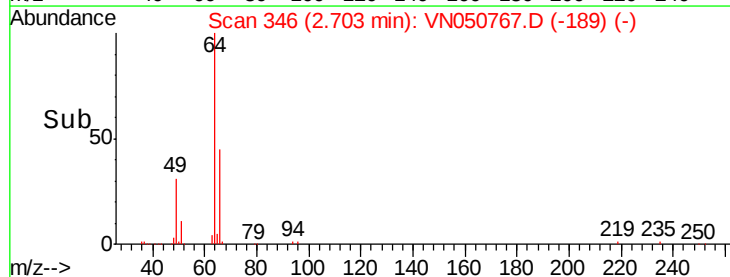
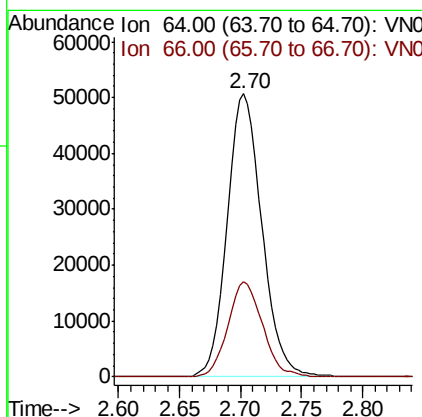
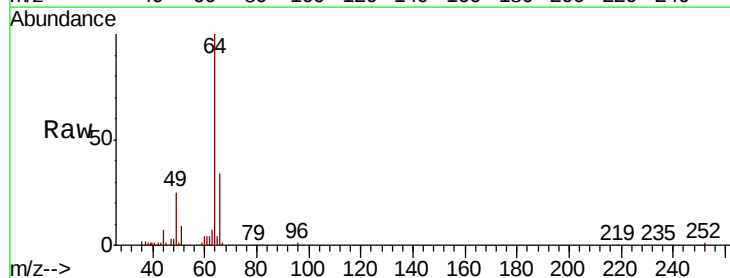
Acq: 20 Aug 2018 12:08

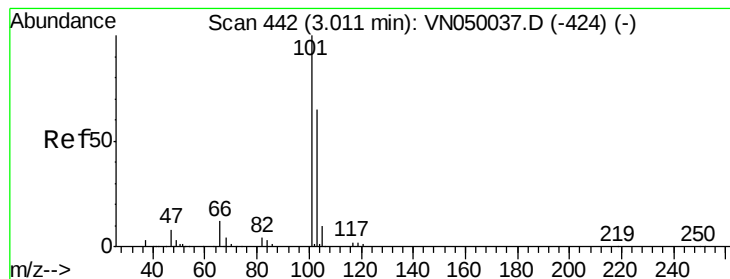
Tgt Ion: 64 Resp: 100624

Ion Ratio Lower Upper

64 100

66 33.6 25.0 37.4





#7

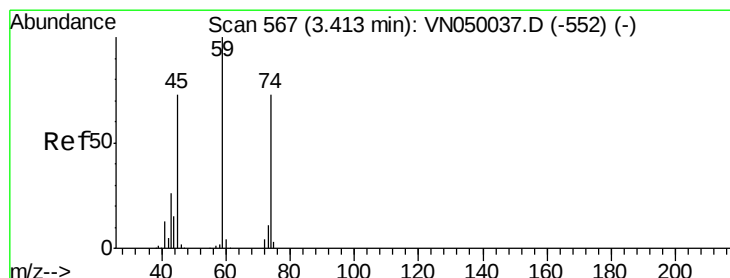
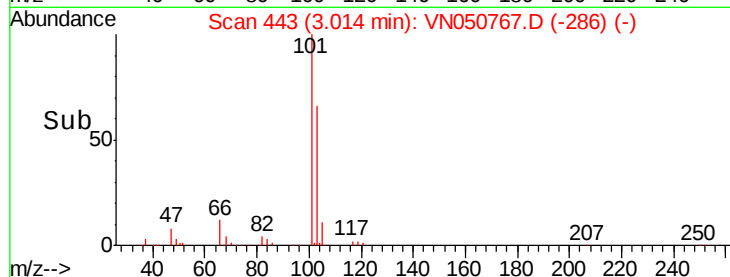
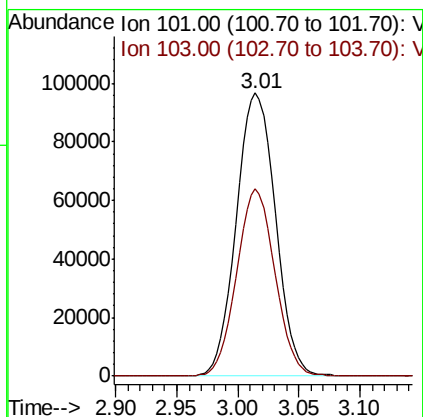
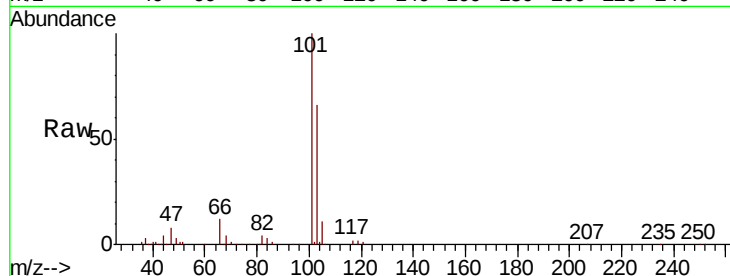
Trichlorofluoromethane
Concen: 19.01 ug/l
RT: 3.01 min Scan# 443
Delta R.T. 0.00 min
Lab File: VN050767.D
Acq: 20 Aug 2018 12:08

Instrument :
MSVOA_N
ClientSampleId :
VN0820WBSD01

Tot Ion	Ratio	Lower	Upper
101	100		
103	66.2	51.5	77.3

Manual Integrations
APPROVED

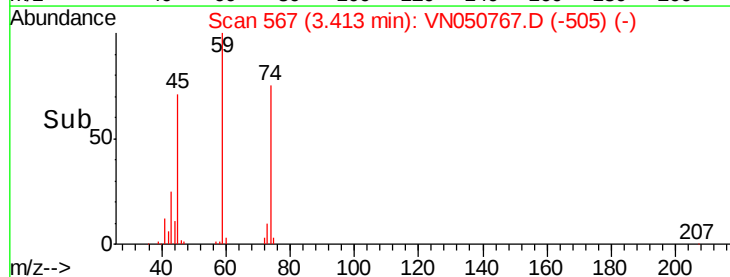
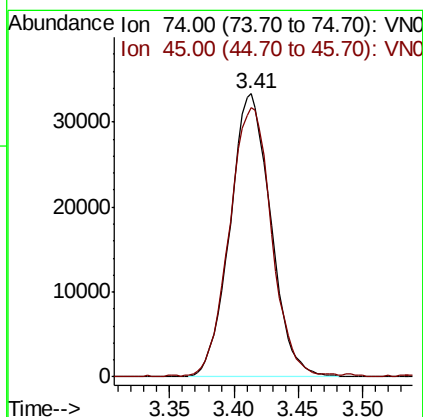
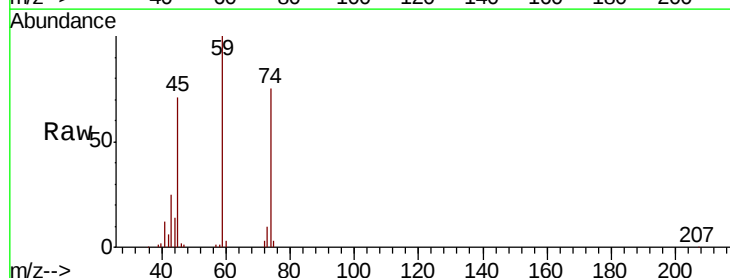
MMDadoda
8/21/2018 2:13:04 PM

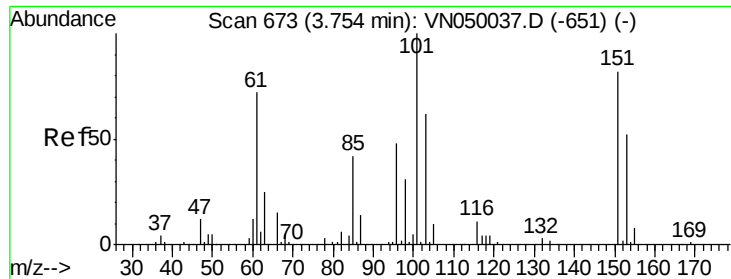


#8

Diethyl Ether
Concen: 19.30 ug/l
RT: 3.41 min Scan# 567
Delta R.T. 0.00 min
Lab File: VN050767.D
Acq: 20 Aug 2018 12:08

Tgt Ion	Ratio	Lower	Upper
74	100		
45	98.6	18.7	167.9





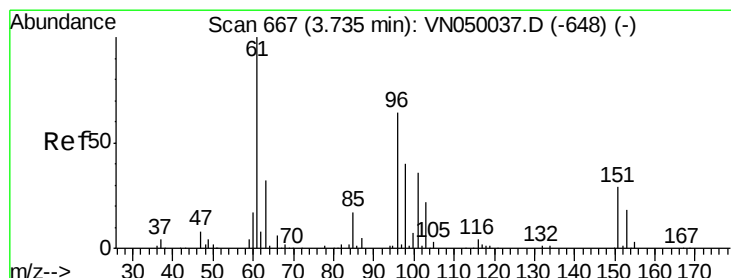
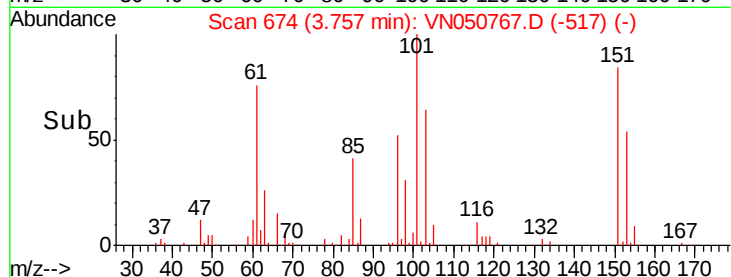
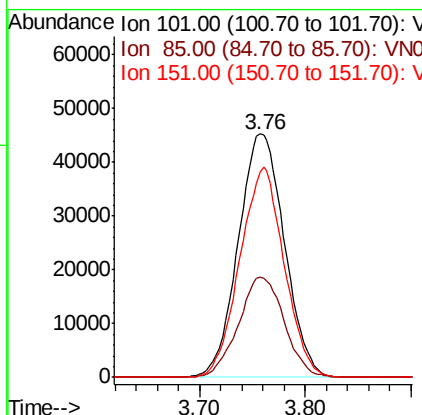
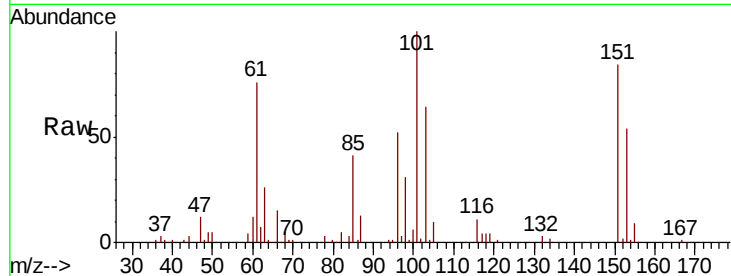
#9
1,1,2-Trichlorotrifluoroethane
Concen: 20.01 ug/l
RT: 3.76 min Scan# 674
Delta R.T. 0.00 min
Lab File: VN050767.D
Acq: 20 Aug 2018 12:08

Instrument :
MSVOA_N
ClientSampleId :
VN0820WBSD01

Tot Ion	Ratio	Resp	Lower	Upper
101	100	137777		
85	40.8	0.0	83.0	
151	82.8	0.0	166.8	

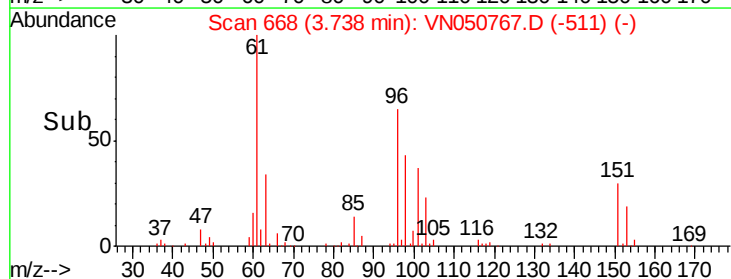
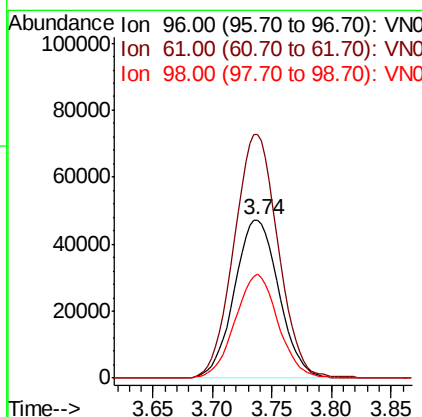
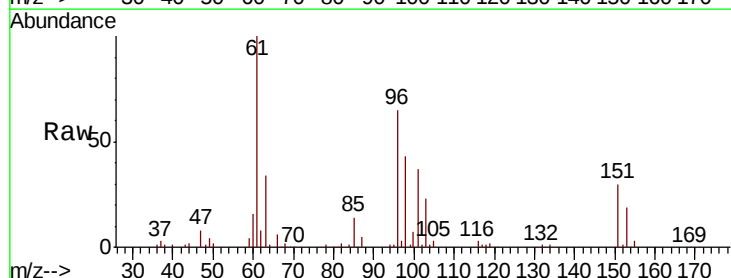
Manual Integrations
APPROVED

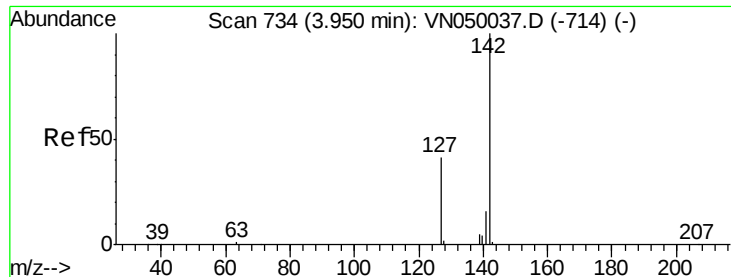
MMDadoda
8/21/2018 2:13:04 PM



#10
1,1-Dichloroethene
Concen: 20.06 ug/l
RT: 3.74 min Scan# 668
Delta R.T. 0.00 min
Lab File: VN050767.D
Acq: 20 Aug 2018 12:08

Tgt Ion	Ratio	Resp	Lower	Upper
96	100	122498		
61	154.2	130.6	195.8	
98	65.2	53.5	80.3	





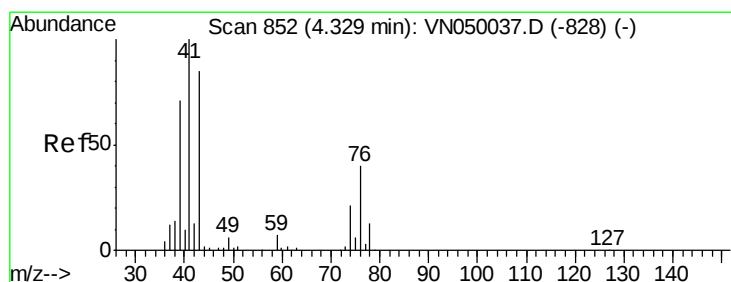
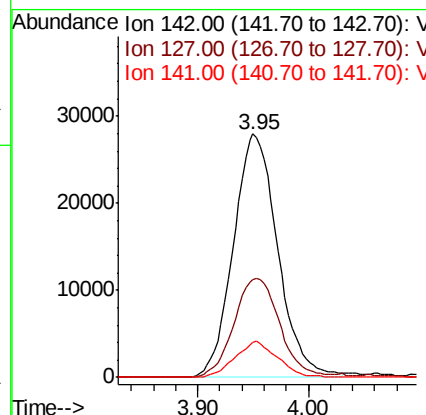
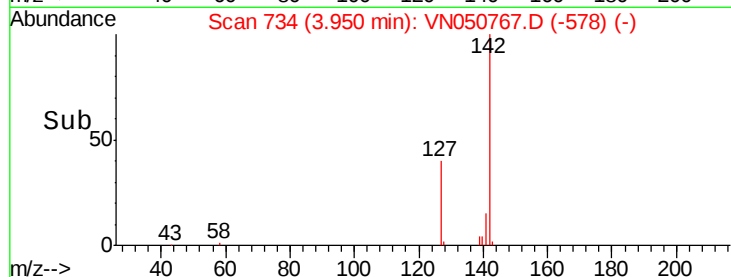
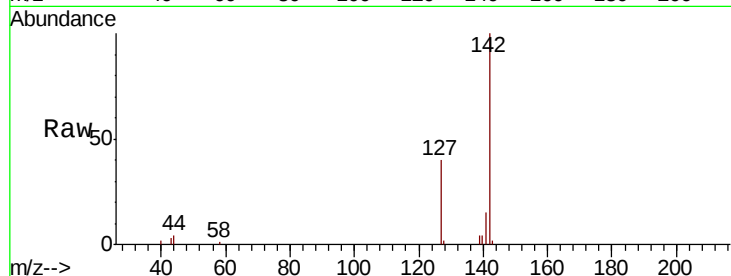
#11
Methyl Iodide
Concen: 8.65 ug/l
RT: 3.95 min Scan# 734
Delta R.T. 0.00 min
Lab File: VN050767.D
Acq: 20 Aug 2018 12:08

Instrument :
MSVOA_N
ClientSampled :
VN0820WBSD01

Tot Ion	Ratio	Lower	Upper
142	100		
127	39.4	20.2	60.5
141	14.7	6.9	20.6

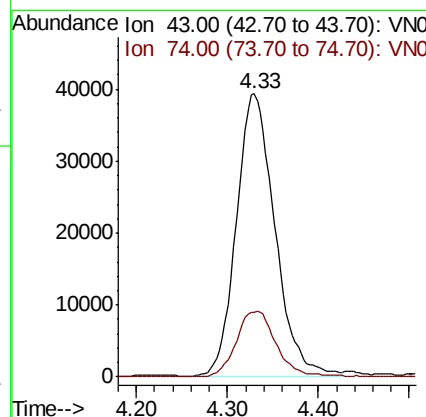
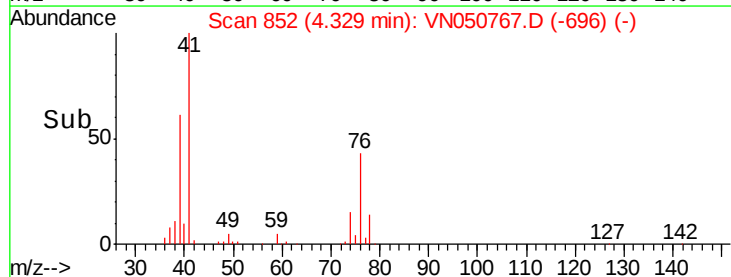
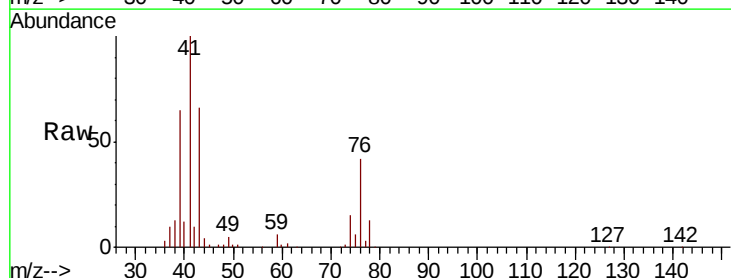
Manual Integrations
APPROVED

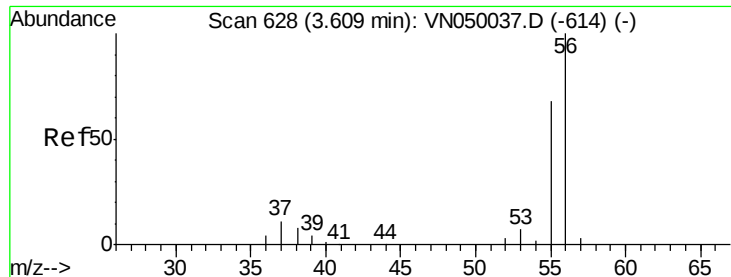
MMDadoda
8/21/2018 2:13:04 PM



#12
Methyl Acetate
Concen: 16.64 ug/l
RT: 4.33 min Scan# 852
Delta R.T. 0.00 min
Lab File: VN050767.D
Acq: 20 Aug 2018 12:08

Tgt Ion	Ratio	Lower	Upper
43	100		
74	22.9	19.3	28.9





#13

Acrolein

Concen: 82.40 ug/l

RT: 3.61 min Scan# 628

Delta R.T. 0.00 min

Lab File: VN050767.D

Acq: 20 Aug 2018 12:08

Instrument :

MSVOA_N

ClientSampleId :

VN0820WBSD01

Tot Ion: 56 Resp: 35624

Ion Ratio Lower Upper

56 100

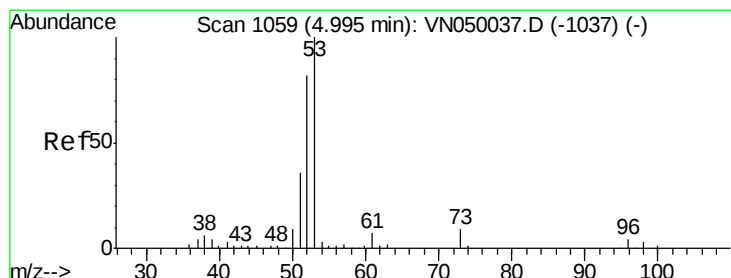
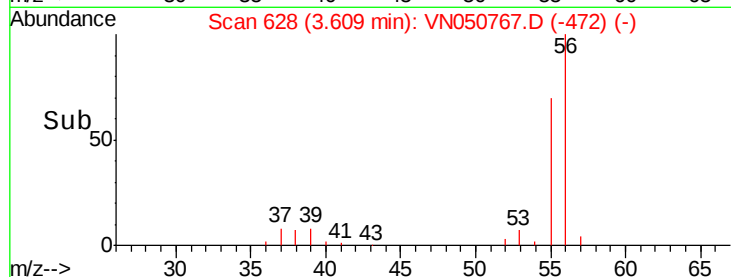
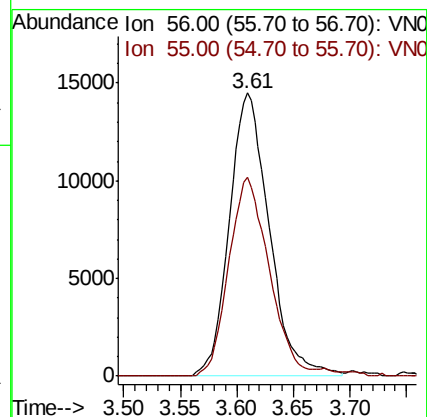
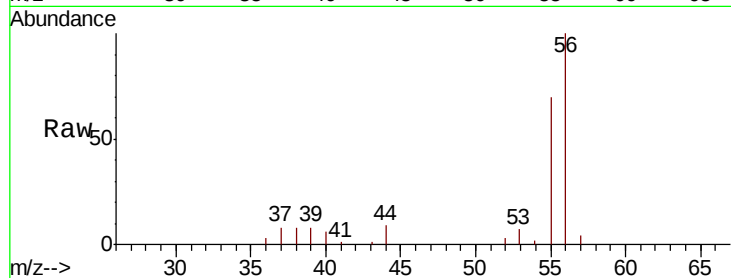
55 70.8 58.6 88.0

Manual Integrations

APPROVED

MMDadoda

8/21/2018 2:13:04 PM



#14

Acrylonitrile

Concen: 93.79 ug/l

RT: 5.00 min Scan# 1059

Delta R.T. 0.00 min

Lab File: VN050767.D

Acq: 20 Aug 2018 12:08

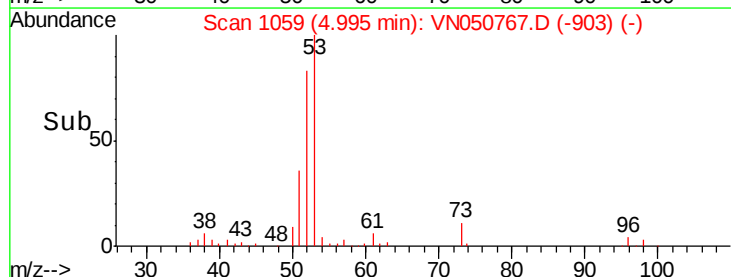
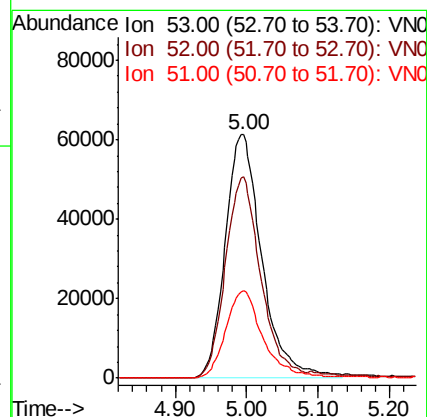
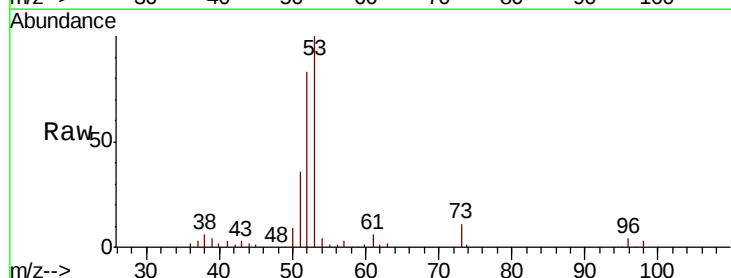
Tgt Ion: 53 Resp: 218926

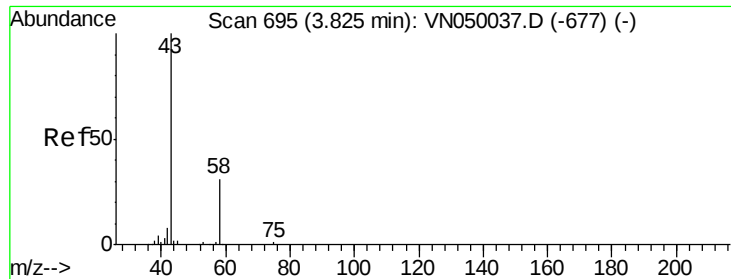
Ion Ratio Lower Upper

53 100

52 79.6 41.5 124.5

51 36.4 18.7 56.1





#15

Acetone

Concen: 106.58 ug/l

RT: 3.82 min Scan# 693

Delta R.T. -0.01 min

Lab File: VN050767.D

Acq: 20 Aug 2018 12:08

Instrument :

MSVOA_N

ClientSampleId :

VN0820WBSD01

Tot Ion: 58 Resp: 66114

Ion Ratio Lower Upper

58 100

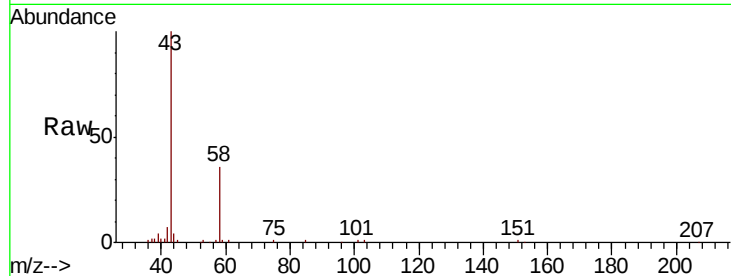
43 278.4 252.0 378.0

Manual Integrations

APPROVED

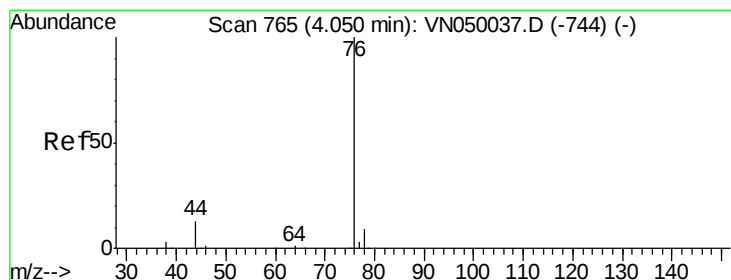
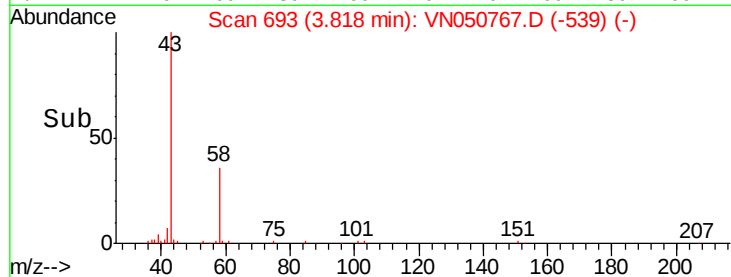
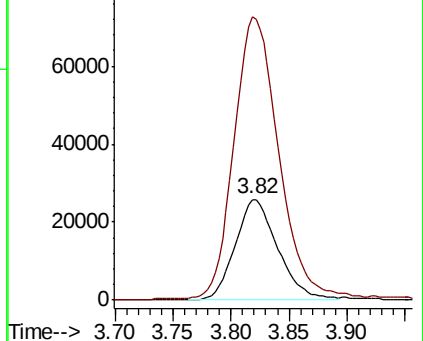
MMDadoda

8/21/2018 2:13:04 PM



Abundance Ion 58.00 (57.70 to 58.70): VN0

Ion 43.00 (42.70 to 43.70): VN0



#16

Carbon Disulfide

Concen: 19.02 ug/l

RT: 4.05 min Scan# 766

Delta R.T. 0.00 min

Lab File: VN050767.D

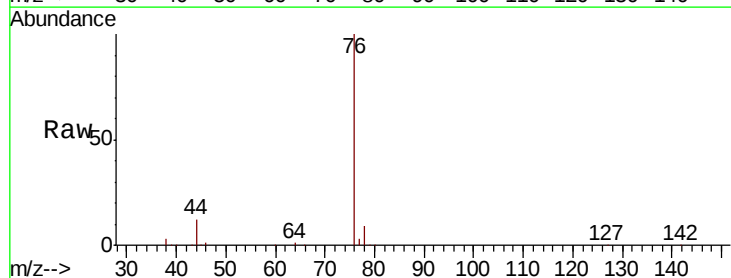
Acq: 20 Aug 2018 12:08

Tgt Ion: 76 Resp: 355412

Ion Ratio Lower Upper

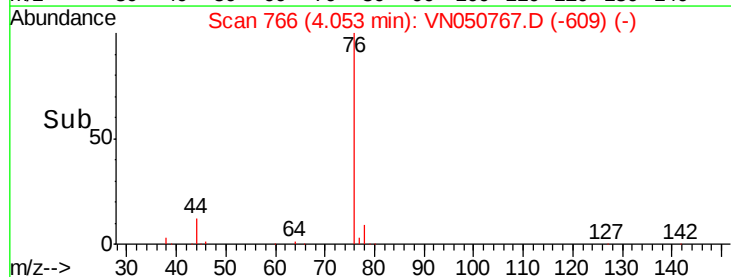
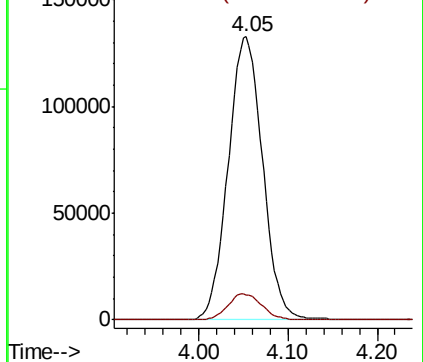
76 100

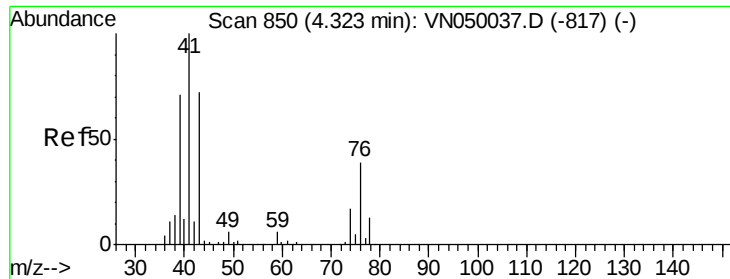
78 9.0 7.3 10.9



Abundance Ion 76.00 (75.70 to 76.70): VN0

Ion 78.00 (77.70 to 78.70): VN0





#17

Allvl chloride

Concen: 19.65 ug/l

RT: 4.32 min Scan# 850

Delta R.T. 0.00 min

Lab File: VN050767.D

Acq: 20 Aug 2018 12:08

Instrument :

MSVOA_N

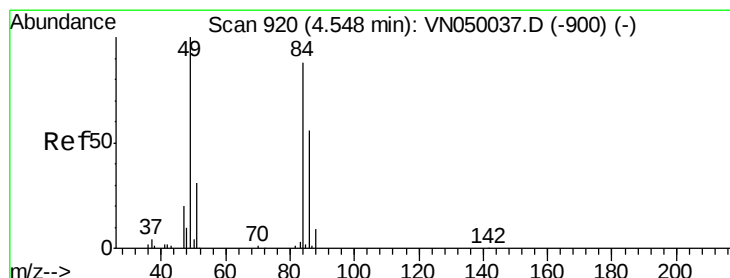
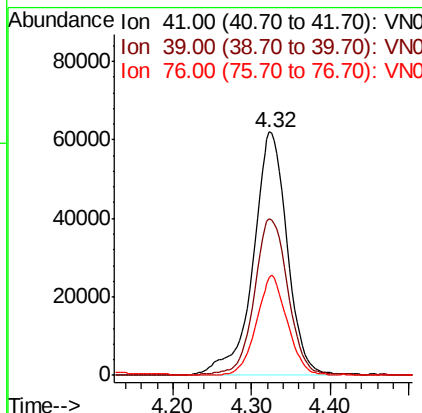
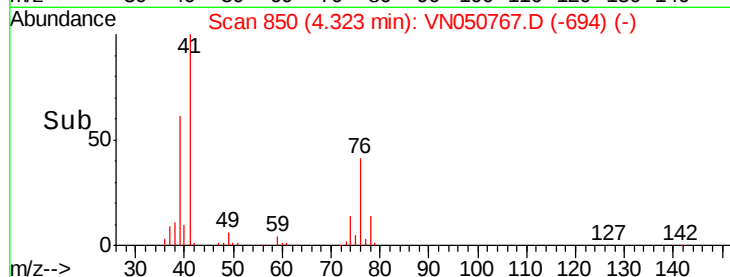
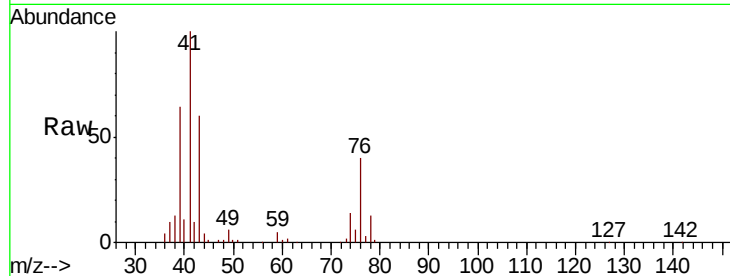
ClientSampleId :

VN0820WBSD01

Tot Ion:	41	Resp:	189482
Ion	Ratio	Lower	Upper
41	100		
39	64.3	35.4	106.3
76	39.8	19.7	59.1

Manual Integrations
APPROVED

MMDadoda
8/21/2018 2:13:04 PM



#18

Methylene Chloride

Concen: 21.18 ug/l

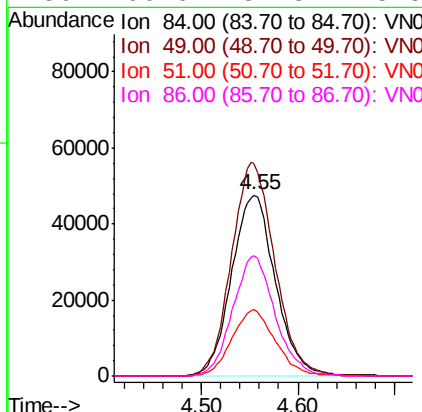
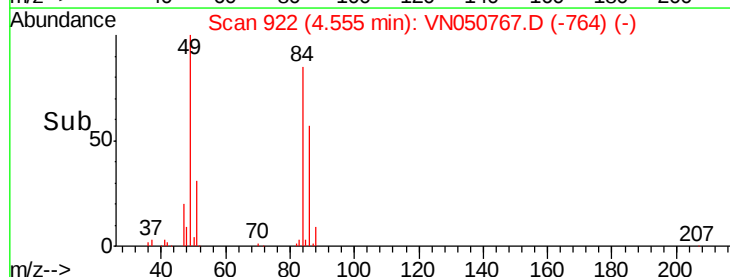
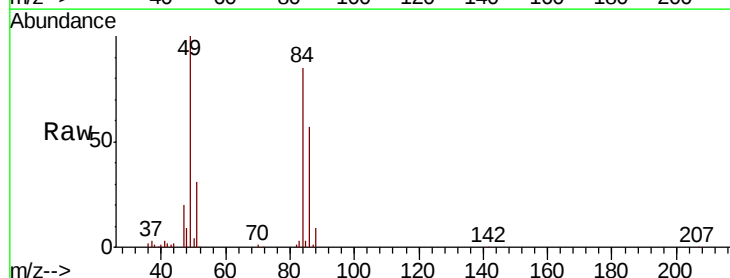
RT: 4.55 min Scan# 922

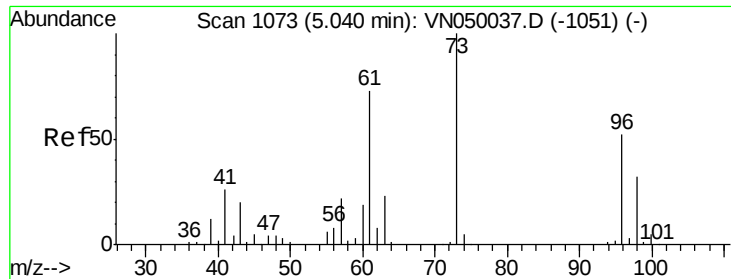
Delta R.T. 0.01 min

Lab File: VN050767.D

Acq: 20 Aug 2018 12:08

Tgt Ion:	84	Resp:	149268
Ion	Ratio	Lower	Upper
84	100		
49	117.0	95.1	142.7
51	36.7	28.8	43.2
86	66.6	52.3	78.5





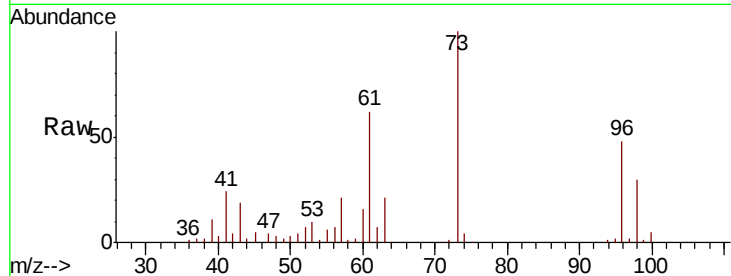
#19
trans-1,2-Dichloroethene
Concen: 20.23 ug/l
RT: 5.05 min Scan# 1075
Delta R.T. 0.01 min
Lab File: VN050767.D
Acq: 20 Aug 2018 12:08

Instrument :
MSVOA_N
ClientSampled :
VN0820WBSD01

Tot Ion	Ratio	Lower	Upper
96	100		
61	130.5	112.1	168.1
98	62.4	51.3	76.9

Manual Integrations
APPROVED

MMDadoda
8/21/2018 2:13:04 PM

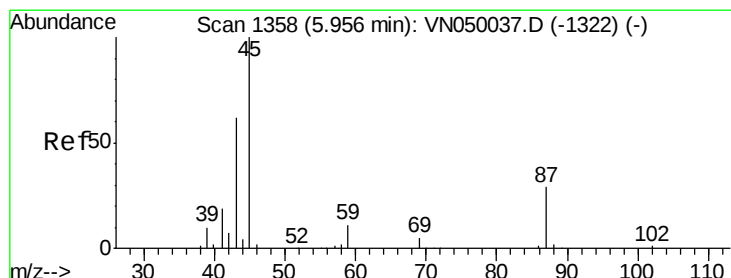
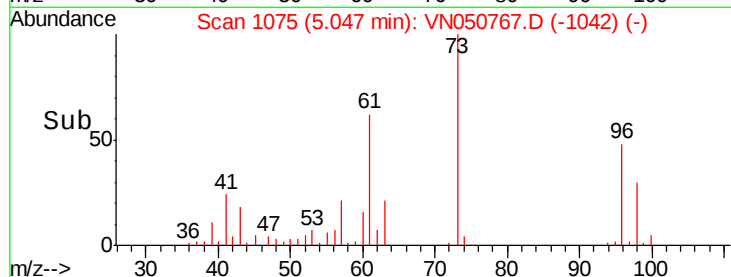
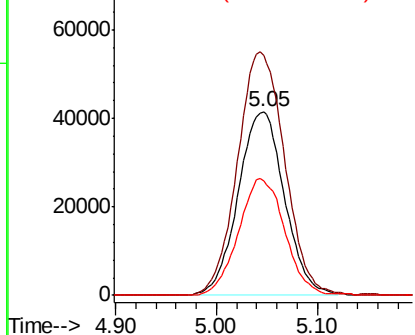


Abundance

Ion 96.00 (95.70 to 96.70): VNO

Ion 61.00 (60.70 to 61.70): VNO

Ion 98.00 (97.70 to 98.70): VNO



#20
Diisopropyl ether
Concen: 21.38 ug/l
RT: 5.96 min Scan# 1358
Delta R.T. 0.00 min
Lab File: VN050767.D
Acq: 20 Aug 2018 12:08

Tgt Ion	Ratio	Lower	Upper
45	100		
43	59.3	46.6	70.0
87	27.9	22.3	33.5
59	12.8	9.5	14.3

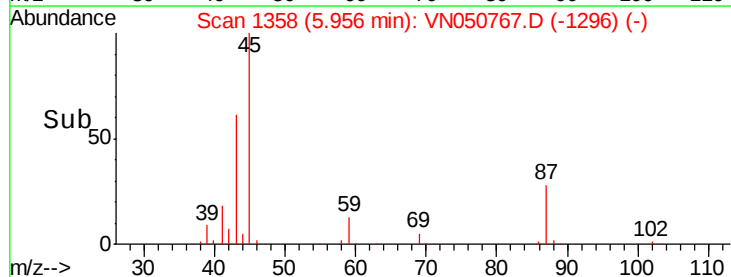
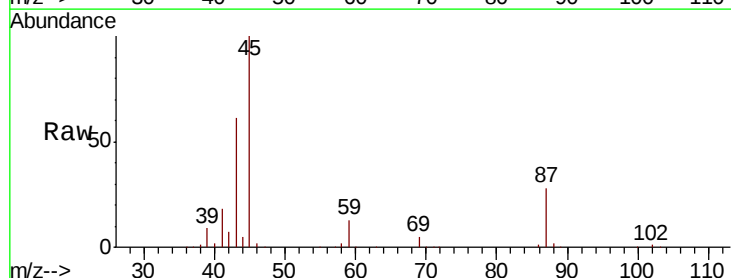
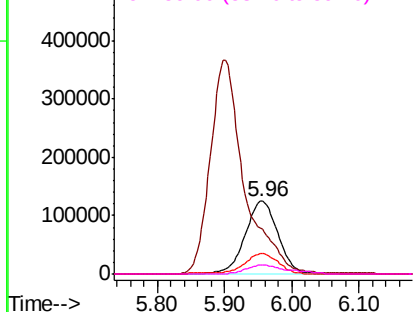
Abundance

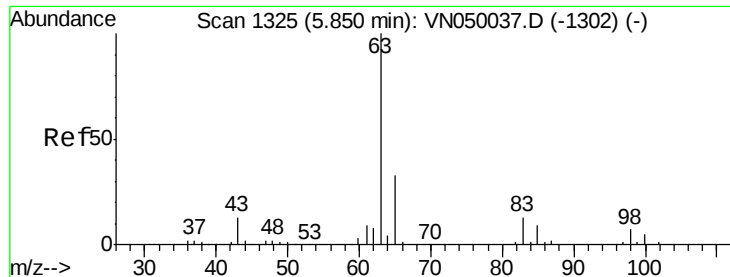
Ion 45.00 (44.70 to 45.70): VNO

Ion 43.00 (42.70 to 43.70): VNO

Ion 87.00 (86.70 to 87.70): VNO

Ion 59.00 (58.70 to 59.70): VNO





#21

1,1-Dichloroethane

Concen: 20.68 ug/l

RT: 5.85 min Scan# 1325

Delta R.T. 0.00 min

Lab File: VN050767.D

Acq: 20 Aug 2018 12:08

Instrument :

MSVOA_N

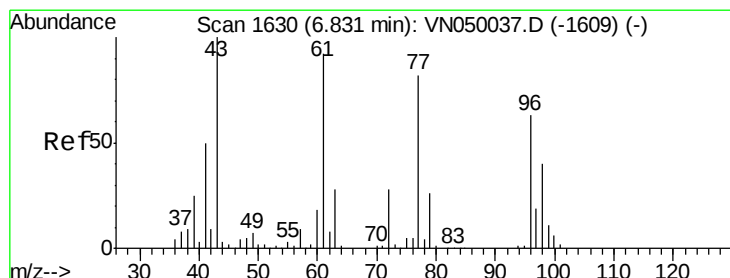
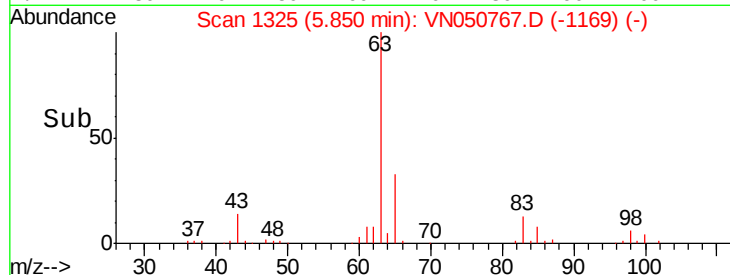
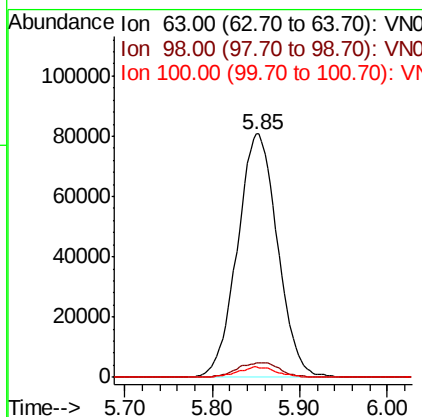
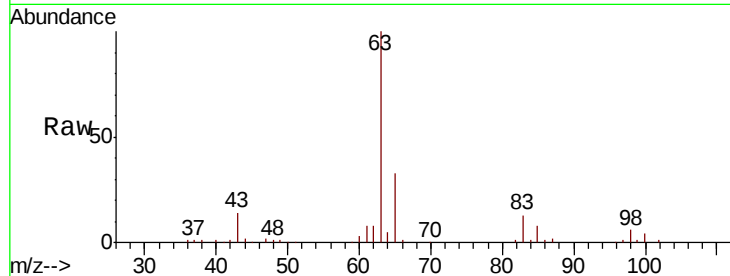
ClientSampled :

VN0820WBSD01

Tot Ion:	63	Resp:	257103
Ion	Ratio	Lower	Upper
63	100		
98	5.8	3.5	10.6
100	4.3	2.3	6.8

Manual Integrations
APPROVED

MMDadoda
8/21/2018 2:13:04 PM



#22

cis-1,2-Dichloroethene

Concen: 20.26 ug/l

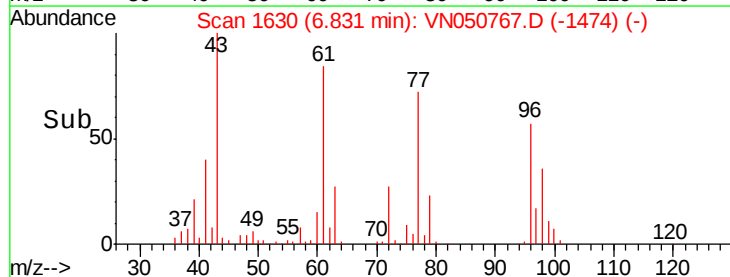
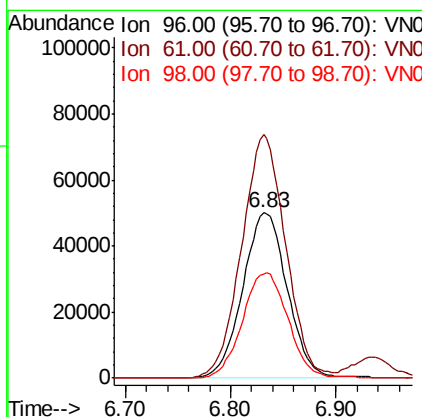
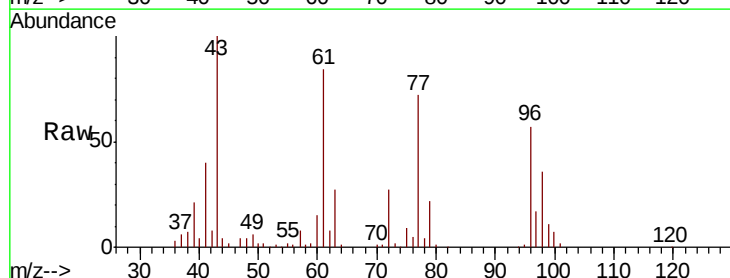
RT: 6.83 min Scan# 1630

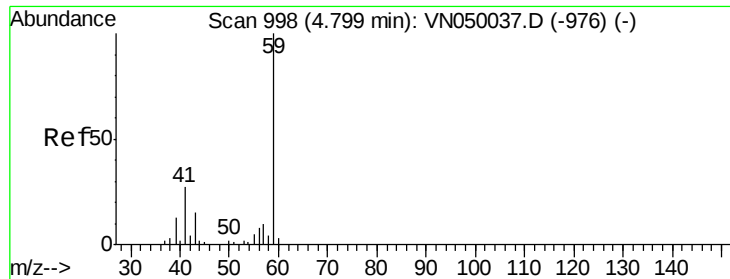
Delta R.T. 0.00 min

Lab File: VN050767.D

Acq: 20 Aug 2018 12:08

Tgt Ion:	96	Resp:	146926
Ion	Ratio	Lower	Upper
96	100		
61	145.9	114.2	171.2
98	65.1	51.7	77.5





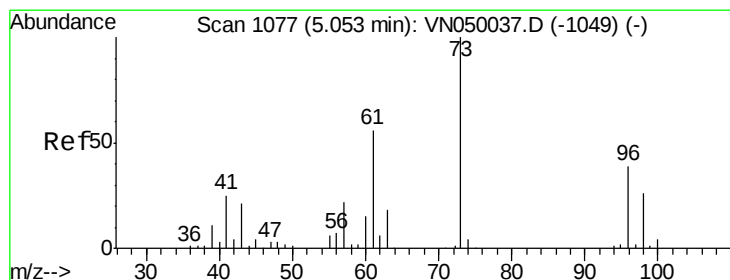
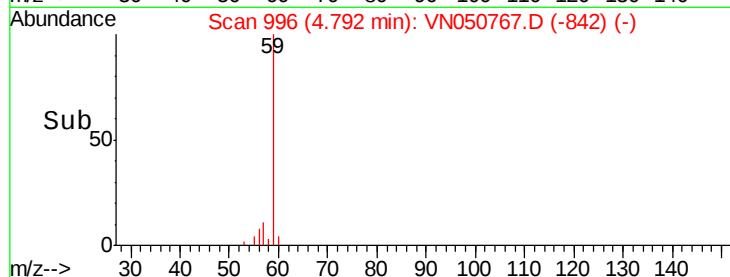
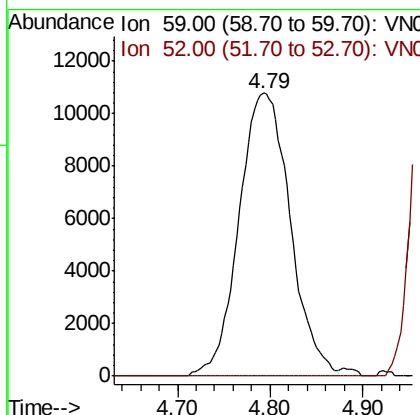
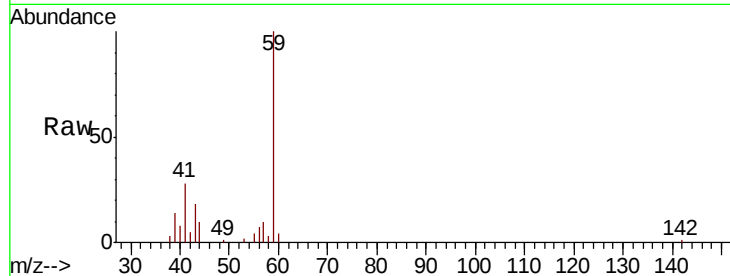
#23
 tert-Butyl Alcohol
 Concen: 79.36 ug/l
 RT: 4.79 min Scan# 996
 Delta R.T. -0.01 min
 Lab File: VN050767.D
 Acq: 20 Aug 2018 12:08

Instrument :
 MSVOA_N
 ClientSampleId :
 VN0820WBSD01

Tot Ion: 59 Resp: 41393
 Ion Ratio Lower Upper
 59 100
 52 0.0 0.1 0.1#

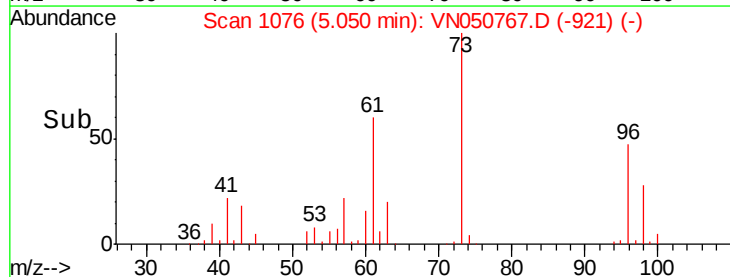
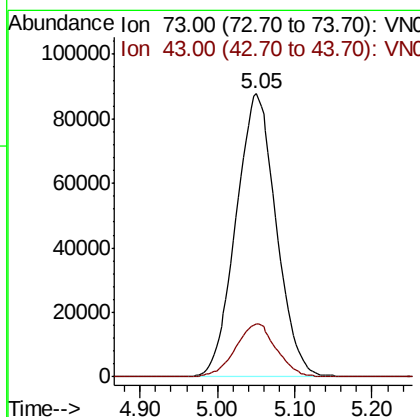
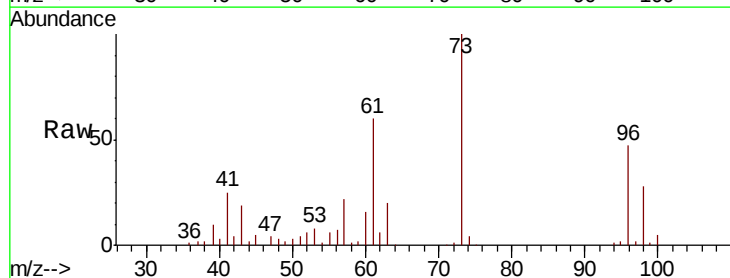
Manual Integrations
 APPROVED

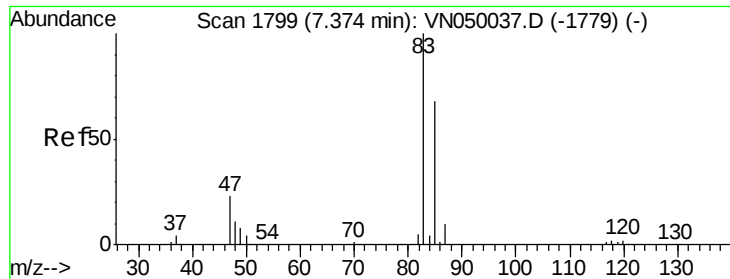
MMDadoda
 8/21/2018 2:13:04 PM



#24
 Methyl tert-Butyl Ether
 Concen: 19.11 ug/l
 RT: 5.05 min Scan# 1076
 Delta R.T. -0.00 min
 Lab File: VN050767.D
 Acq: 20 Aug 2018 12:08

Tgt Ion: 73 Resp: 318198
 Ion Ratio Lower Upper
 73 100
 43 19.0 15.5 23.3





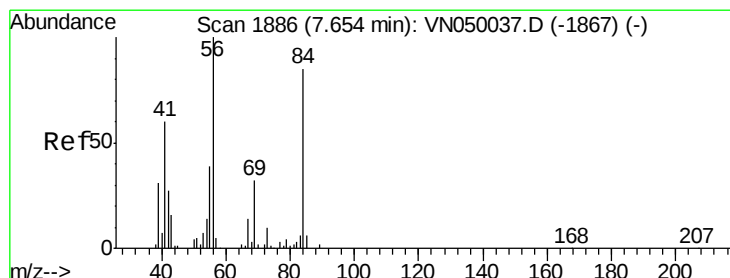
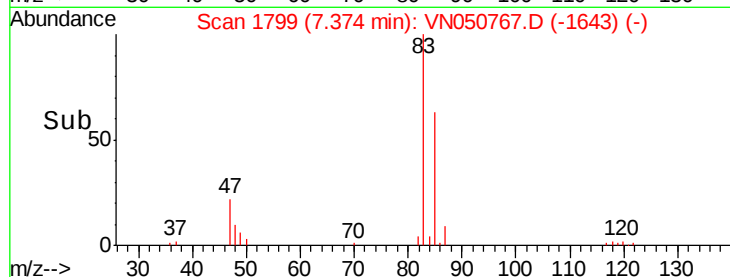
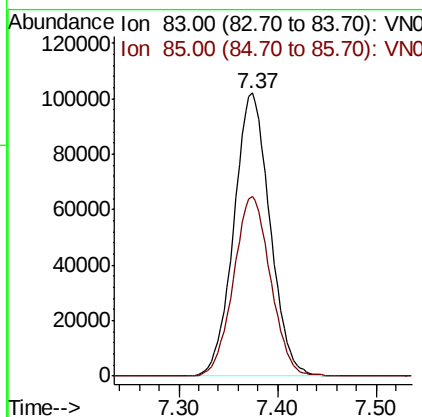
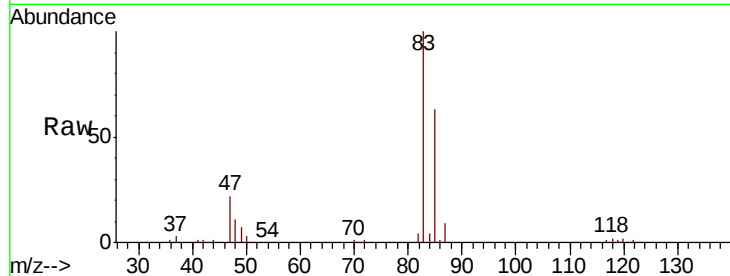
#25
Chloroform
Concen: 20.55 ug/l
RT: 7.37 min Scan# 1799
Delta R.T. 0.00 min
Lab File: VN050767.D
Acq: 20 Aug 2018 12:08

Instrument :
MSVOA_N
ClientSampled :
VN0820WBSD01

Tot Ion	83	Resp	258710
Ion Ratio	100	Lower	Upper
83	100		
85	63.5	52.1	78.1

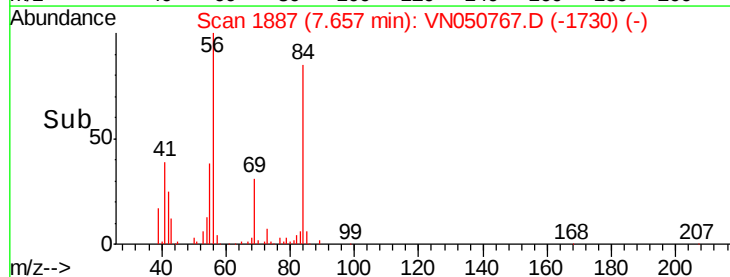
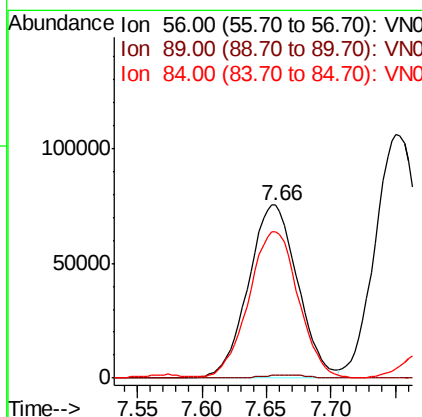
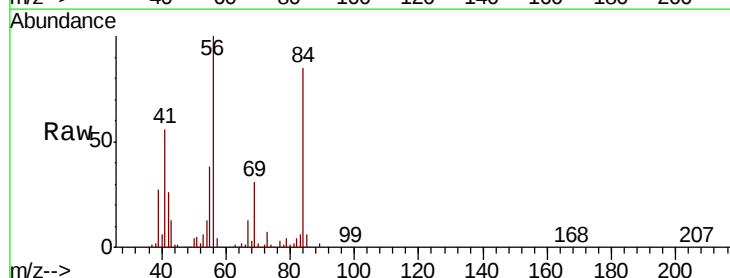
Manual Integrations
APPROVED

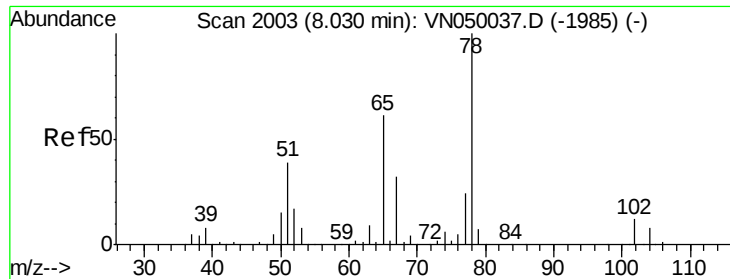
MMDadoda
8/21/2018 2:13:04 PM



#26
Cyclohexane
Concen: 20.34 ug/l
RT: 7.66 min Scan# 1887
Delta R.T. 0.00 min
Lab File: VN050767.D
Acq: 20 Aug 2018 12:08

Tgt Ion	56	Resp	200938
Ion Ratio	100	Lower	Upper
56	100		
89	0.8	3.0	4.4#
84	85.4	69.8	104.8





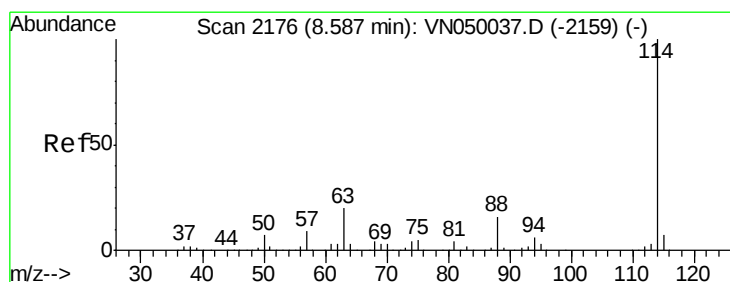
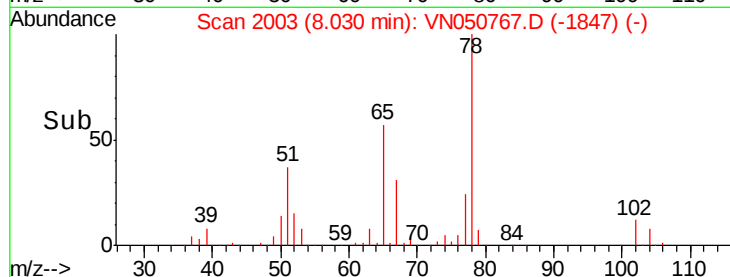
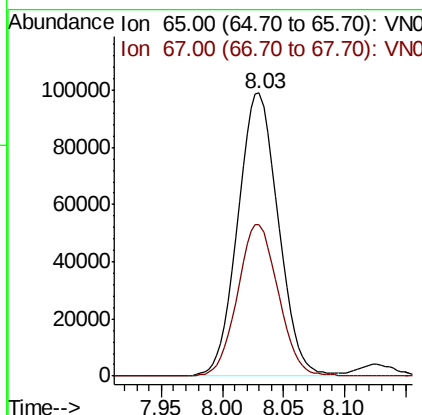
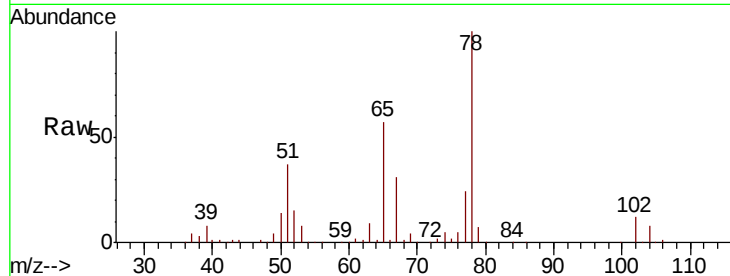
#27
 1,2-Dichloroethane-d4
 Concen: 29.25 ug/l
 RT: 8.03 min Scan# 2003
 Delta R.T. 0.00 min
 Lab File: VN050767.D
 Acq: 20 Aug 2018 12:08

Instrument :
 MSVOA_N
 ClientSampleId :
 VN0820WBSD01

Tot Ion: 65 Resp: 227745
 Ion Ratio Lower Upper
 65 100
 67 53.9 42.7 64.1

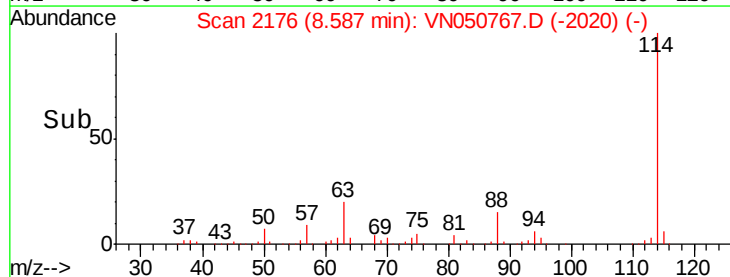
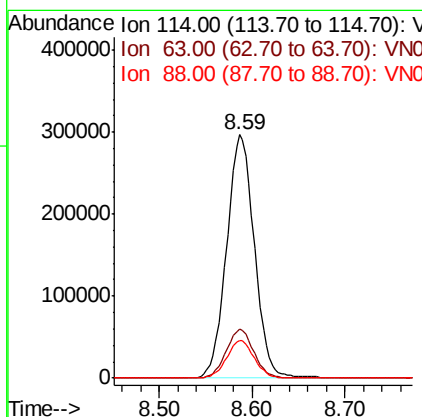
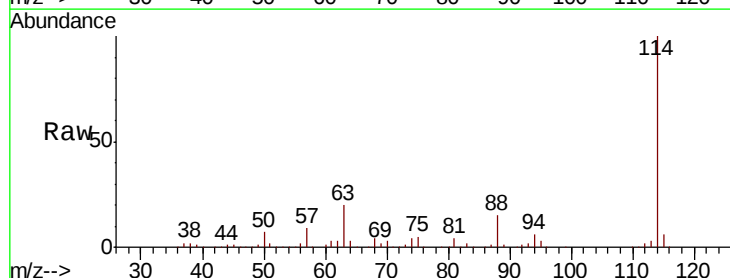
Manual Integrations
 APPROVED

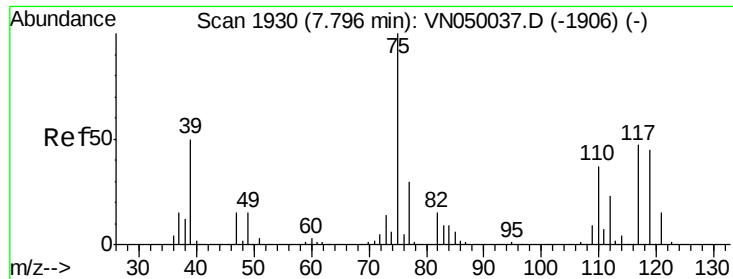
MMDadoda
 8/21/2018 2:13:04 PM



#28
 1,4-Difluorobenzene
 Concen: 30.00 ug/l
 RT: 8.59 min Scan# 2176
 Delta R.T. 0.00 min
 Lab File: VN050767.D
 Acq: 20 Aug 2018 12:08

Tgt Ion: 114 Resp: 616062
 Ion Ratio Lower Upper
 114 100
 63 19.8 16.2 24.2
 88 15.3 12.3 18.5





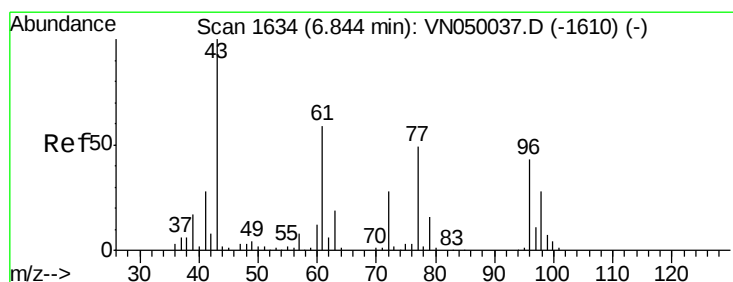
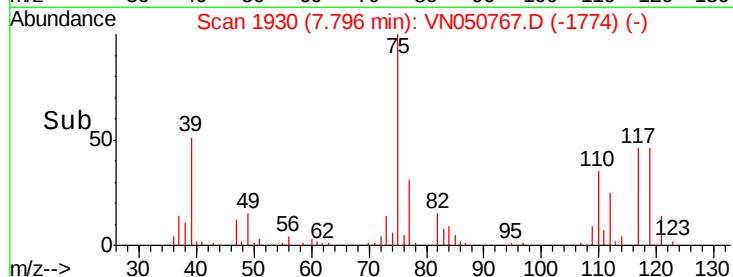
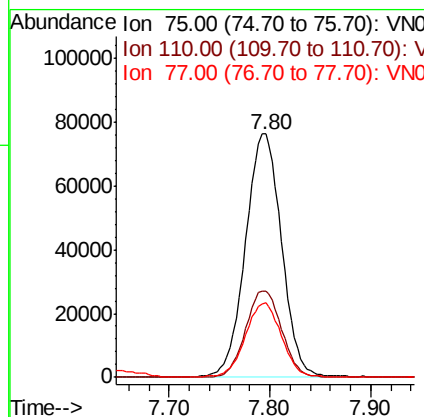
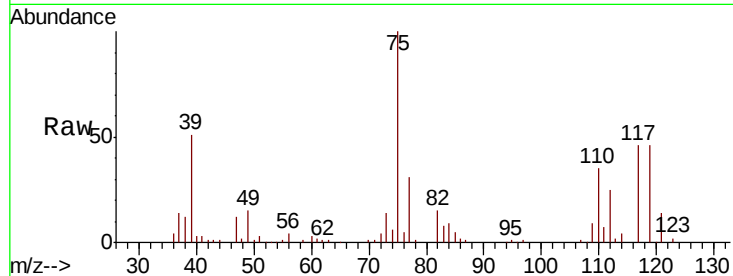
#29
 1,1-Dichloropropene
 Concen: 19.85 ug/l
 RT: 7.80 min Scan# 1930
 Delta R.T. 0.00 min
 Lab File: VN050767.D
 Acq: 20 Aug 2018 12:08

Instrument :
 MSVOA_N
 ClientSampleId :
 VN0820WBSD01

Tot Ion	Ratio	Resp	Lower	Upper
75	100	189763		
110	35.4	0.0	73.2	
77	30.7	0.0	62.0	

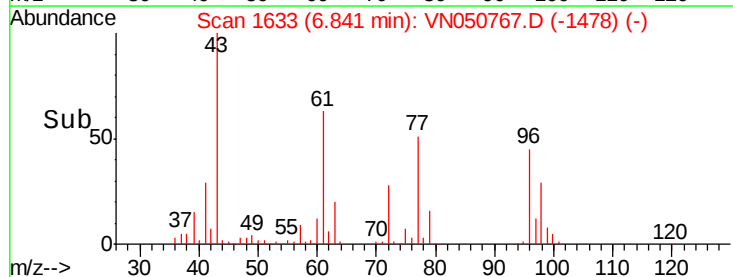
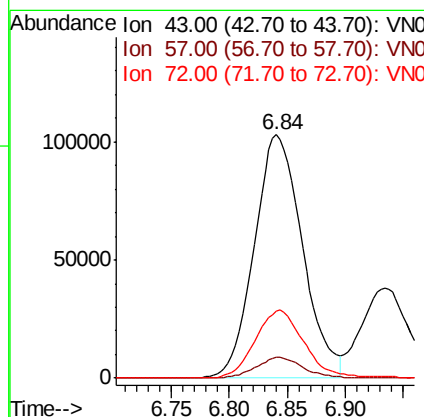
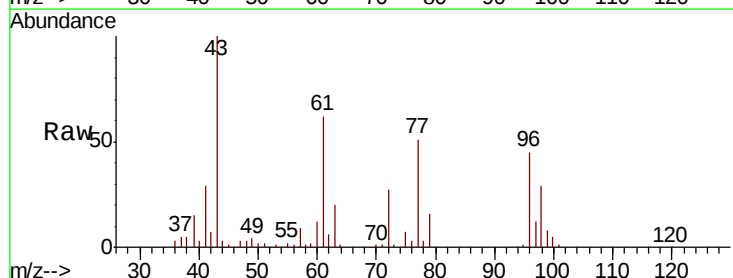
Manual Integrations
 APPROVED

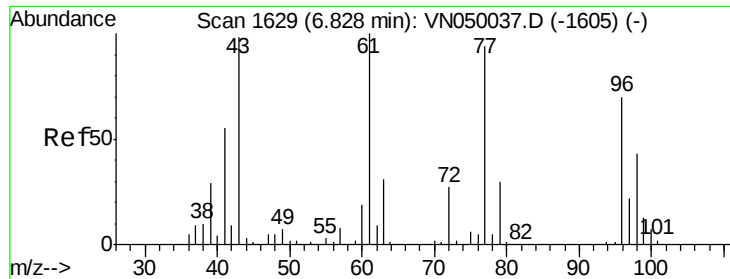
MMDadoda
 8/21/2018 2:13:04 PM



#30
 2-Butanone
 Concen: 99.26 ug/l
 RT: 6.84 min Scan# 1633
 Delta R.T. -0.00 min
 Lab File: VN050767.D
 Acq: 20 Aug 2018 12:08

Tgt Ion	Ratio	Resp	Lower	Upper
43	100	297781		
57	8.3	6.8	10.2	
72	28.2	21.4	32.0	





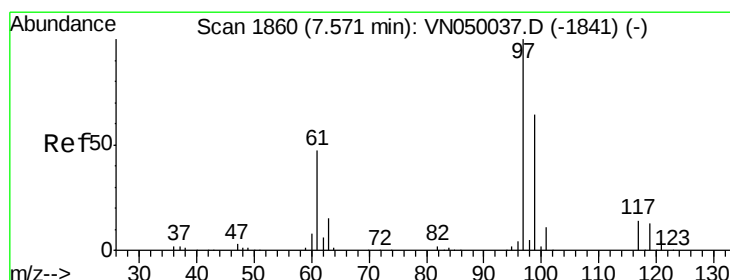
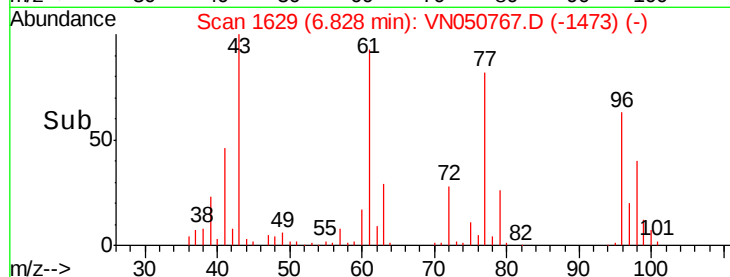
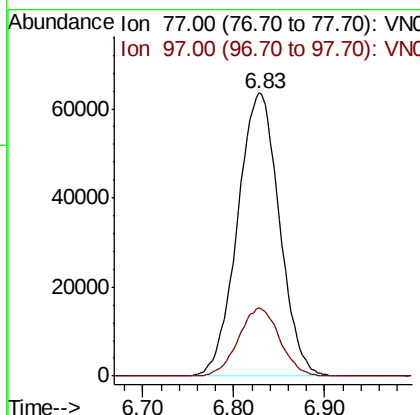
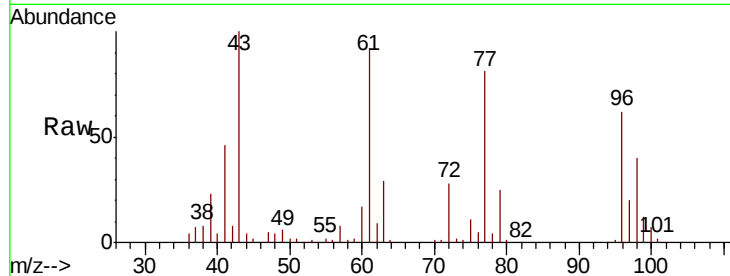
#31
 2,2-Dichloropropane
 Concen: 19.21 ug/l
 RT: 6.83 min Scan# 1629
 Delta R.T. 0.00 min
 Lab File: VN050767.D
 Acq: 20 Aug 2018 12:08

Instrument :
 MSVOA_N
 ClientSampled :
 VN0820WBSD01

Tot Ion: 77 Resp: 203041
 Ion Ratio Lower Upper
 77 100
 97 23.7 18.9 28.3

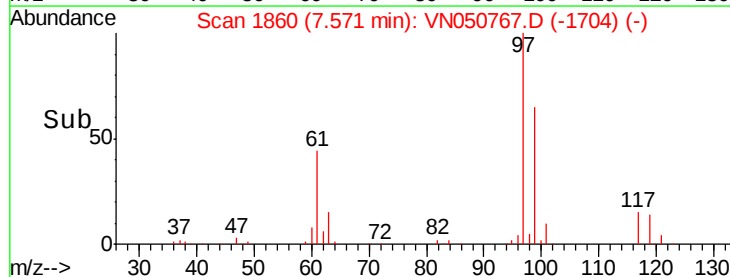
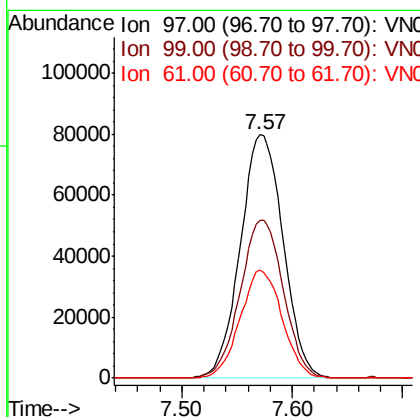
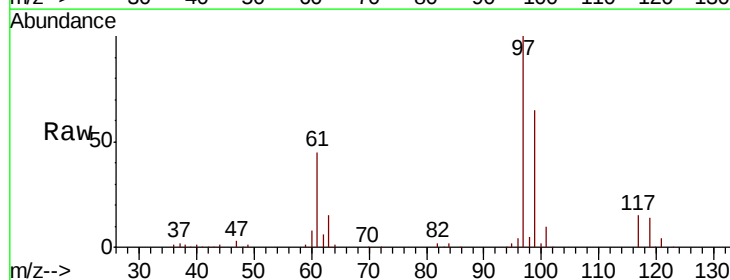
Manual Integrations
 APPROVED

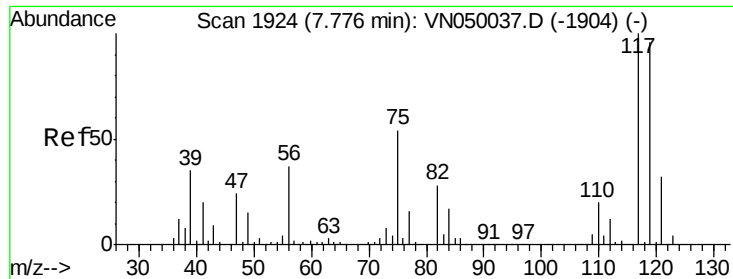
MMDadoda
 8/21/2018 2:13:04 PM



#32
 1,1,1-Trichloroethane
 Concen: 19.06 ug/l
 RT: 7.57 min Scan# 1860
 Delta R.T. 0.00 min
 Lab File: VN050767.D
 Acq: 20 Aug 2018 12:08

Tgt Ion: 97 Resp: 214545
 Ion Ratio Lower Upper
 97 100
 99 65.4 51.2 76.8
 61 43.7 35.3 52.9





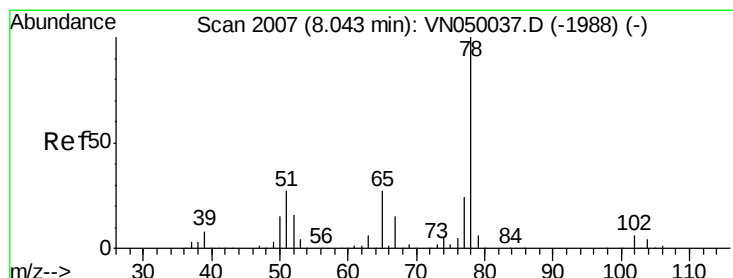
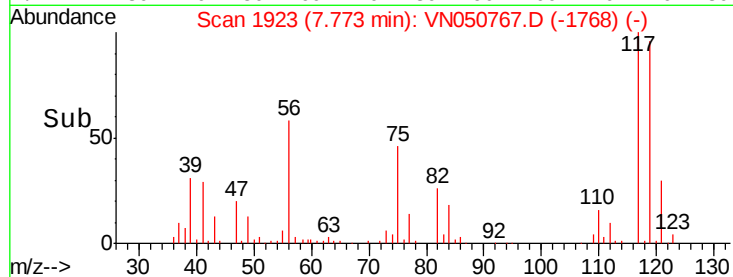
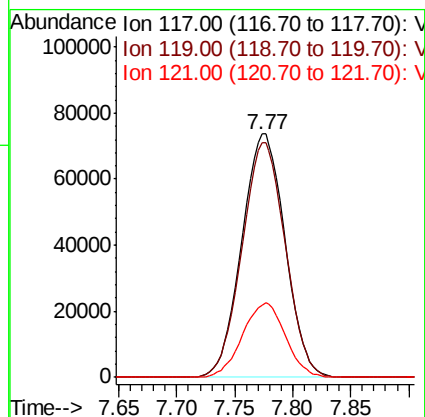
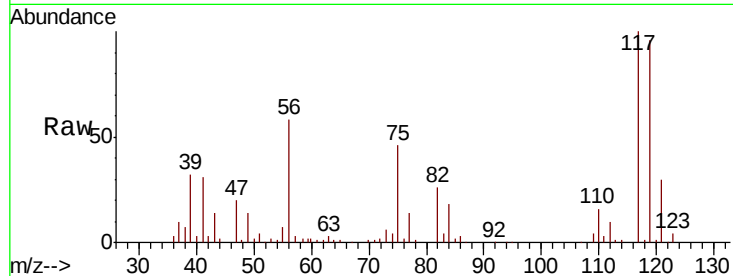
#33
Carbon Tetrachloride
Concen: 19.05 ug/l
RT: 7.77 min Scan# 1923
Delta R.T. -0.00 min
Lab File: VN050767.D
Acq: 20 Aug 2018 12:08

Instrument :
MSVOA_N
ClientSampleId :
VN0820WBSD01

Tot Ion	Ratio	Lower	Upper
117	100		
119	96.4	76.9	115.3
121	29.6	24.4	36.6

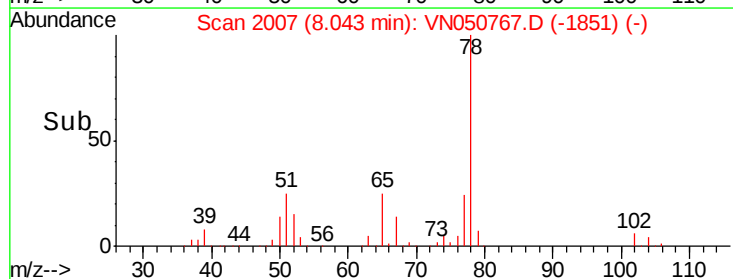
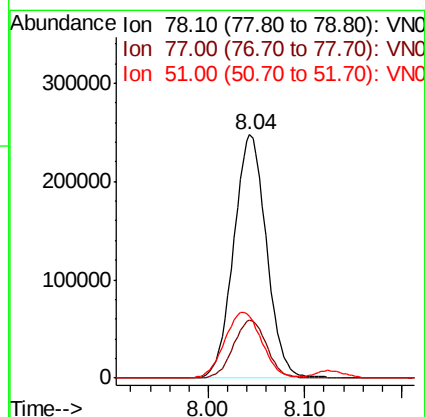
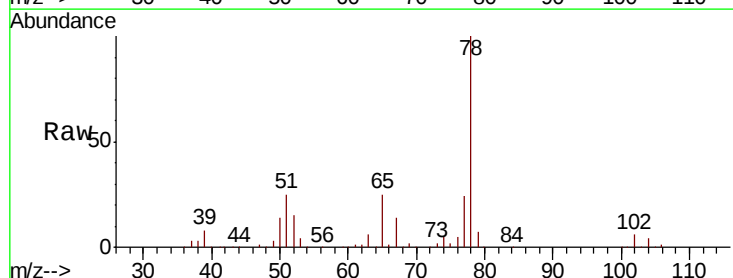
Manual Integrations
APPROVED

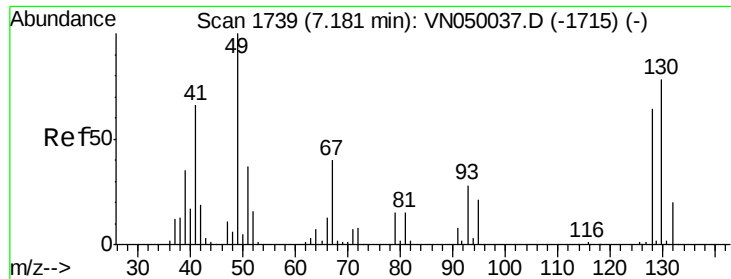
MMDadoda
8/21/2018 2:13:04 PM



#34
Benzene
Concen: 20.06 ug/l
RT: 8.04 min Scan# 2007
Delta R.T. 0.00 min
Lab File: VN050767.D
Acq: 20 Aug 2018 12:08

Tgt Ion	Ratio	Lower	Upper
78	100		
77	23.7	19.1	28.7
51	25.0	21.0	31.4





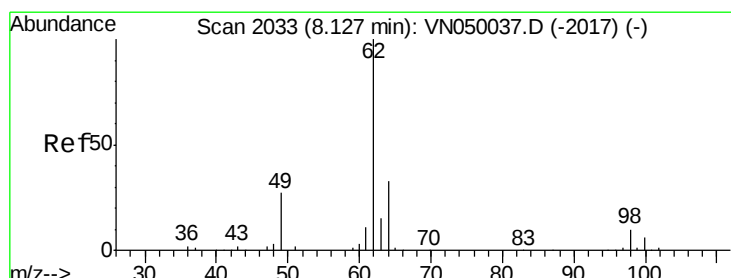
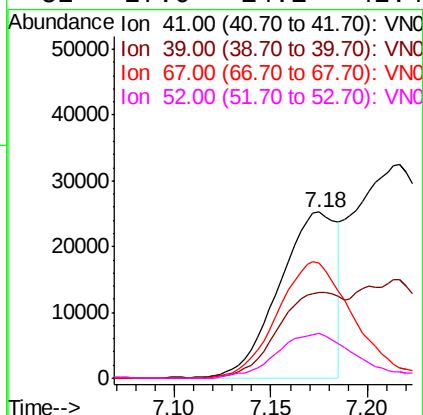
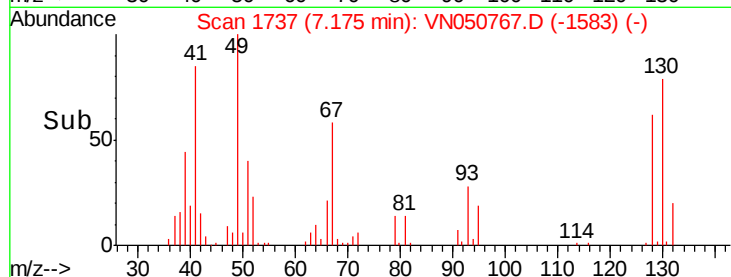
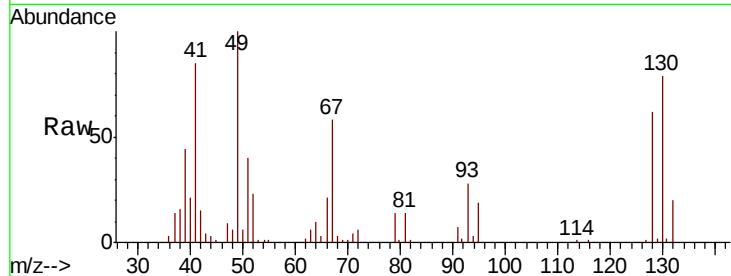
#35
Methacrylonitrile
Concen: 15.38 ug/l
RT: 7.18 min Scan# 1737
Delta R.T. -0.01 min
Lab File: VN050767.D
Acq: 20 Aug 2018 12:08

Instrument :
MSVOA_N
ClientSampleId :
VN0820WBSD01

Tot Ion	Ratio	Lower	Upper
41	100		
39	51.8	27.6	82.7
67	69.1	35.1	105.5
52	27.0	14.1	42.4

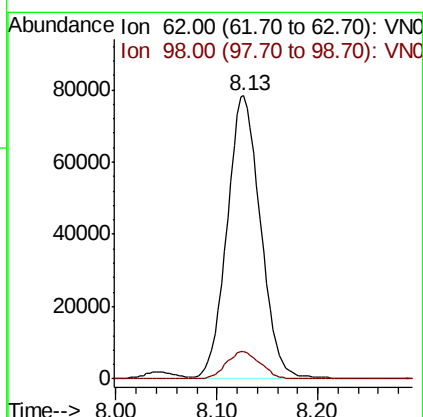
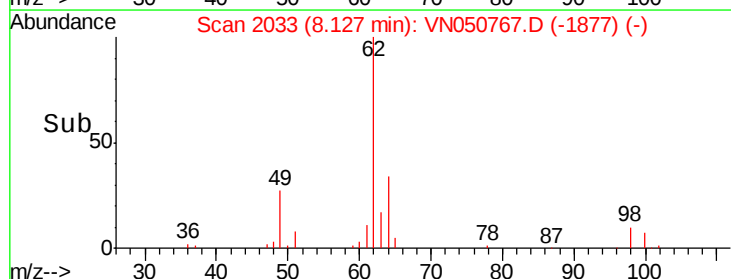
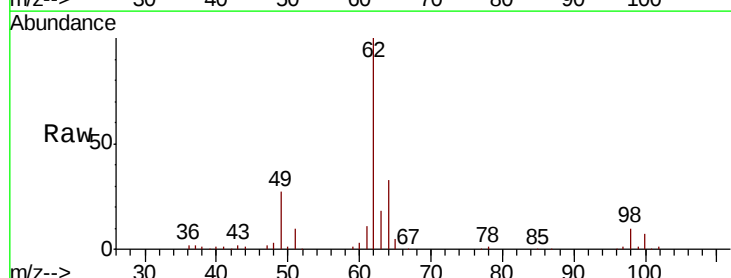
Manual Integrations
APPROVED

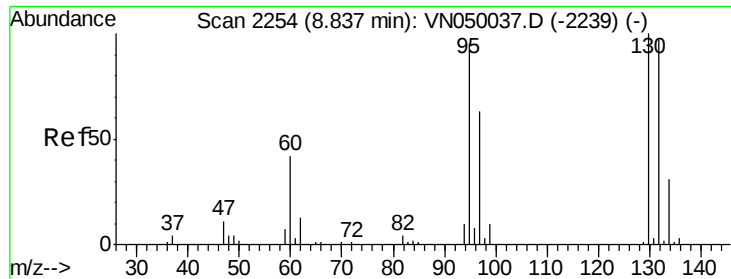
MMDadoda
8/21/2018 2:13:04 PM



#36
1,2-Dichloroethane
Concen: 19.02 ug/l
RT: 8.13 min Scan# 2033
Delta R.T. 0.00 min
Lab File: VN050767.D
Acq: 20 Aug 2018 12:08

Tgt Ion	Ratio	Lower	Upper
62	100		
98	9.7	7.8	11.6





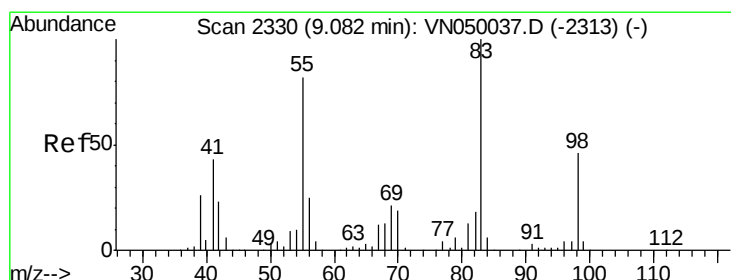
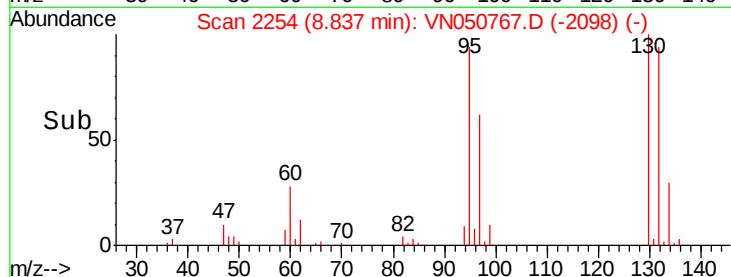
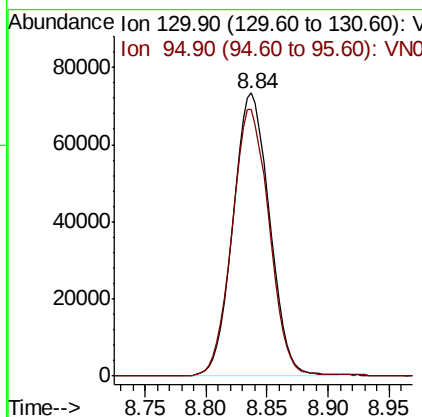
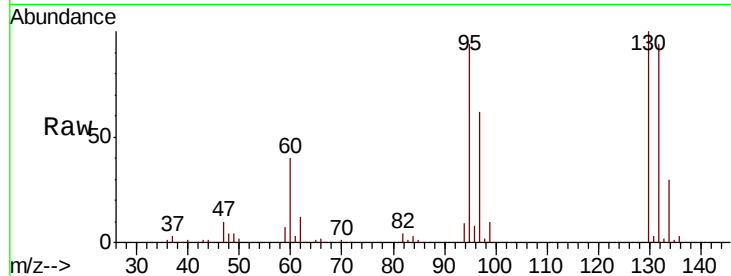
#37
 Trichloroethene
 Concen: 20.02 ug/l
 RT: 8.84 min Scan# 2254
 Delta R.T. 0.00 min
 Lab File: VN050767.D
 Acq: 20 Aug 2018 12:08

Instrument :
 MSVOA_N
 ClientSampleId :
 VN0820WBSD01

Tot Ion:130 Resp: 152432
 Ion Ratio Lower Upper
 130 100
 95 94.1 79.7 119.5

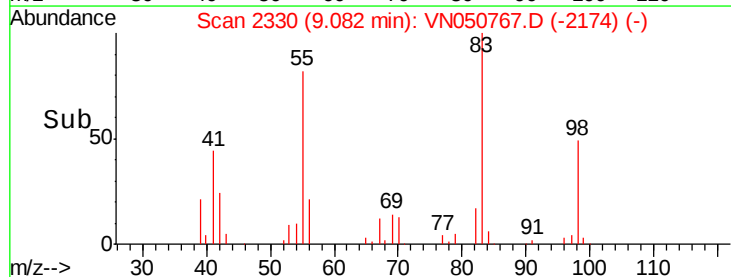
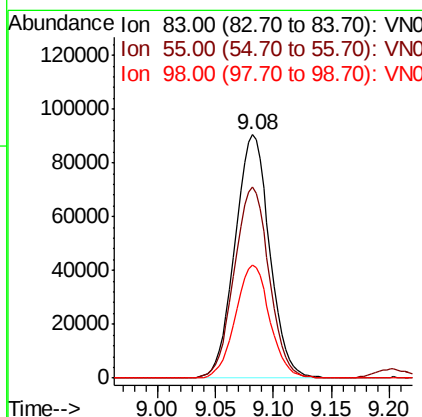
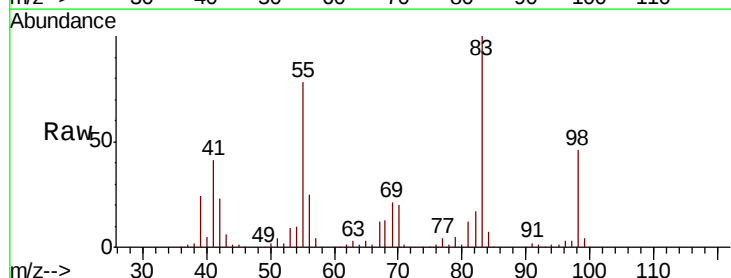
Manual Integrations
 APPROVED

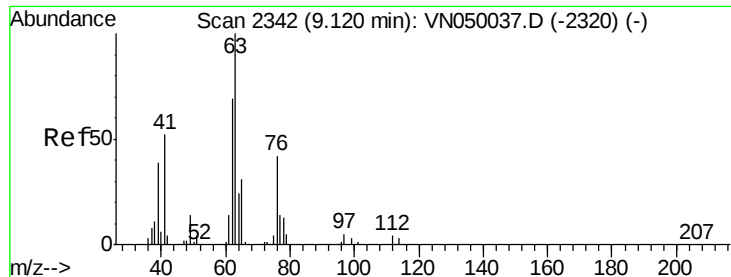
MMDadoda
 8/21/2018 2:13:04 PM



#38
 Methylcyclohexane
 Concen: 18.64 ug/l
 RT: 9.08 min Scan# 2330
 Delta R.T. 0.00 min
 Lab File: VN050767.D
 Acq: 20 Aug 2018 12:08

Tgt Ion: 83 Resp: 187888
 Ion Ratio Lower Upper
 83 100
 55 79.2 39.3 117.8
 98 46.2 23.0 69.0





#39

1,2-Dichloropropane

Concen: 20.38 ug/l

RT: 9.12 min Scan# 2342

Delta R.T. 0.00 min

Lab File: VN050767.D

Acq: 20 Aug 2018 12:08

Instrument :

MSVOA_N

ClientSampleId :

VN0820WBSD01

Tot Ion: 63 Resp: 155916

Ion Ratio Lower Upper

63 100

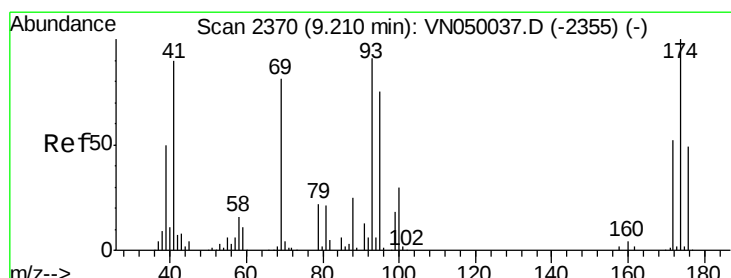
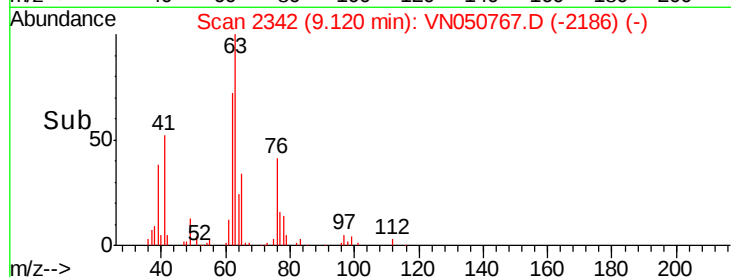
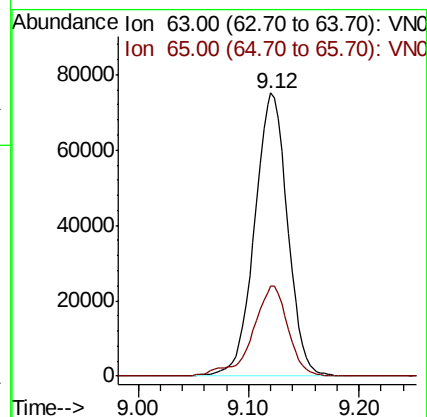
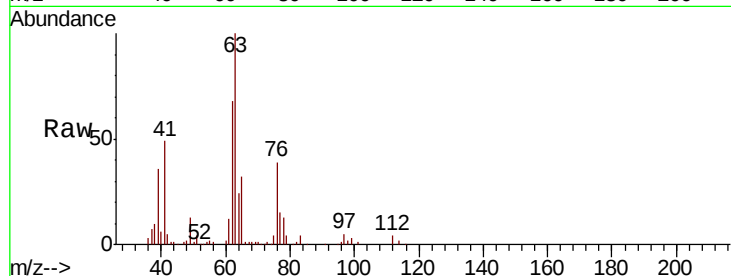
65 31.8 24.2 36.2

Manual Integrations

APPROVED

MMDadoda

8/21/2018 2:13:04 PM



#40

Dibromomethane

Concen: 19.16 ug/l

RT: 9.21 min Scan# 2370

Delta R.T. 0.00 min

Lab File: VN050767.D

Acq: 20 Aug 2018 12:08

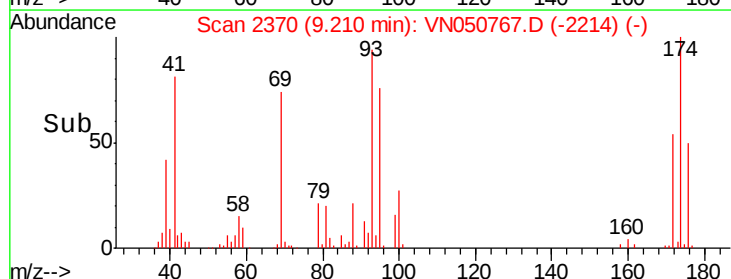
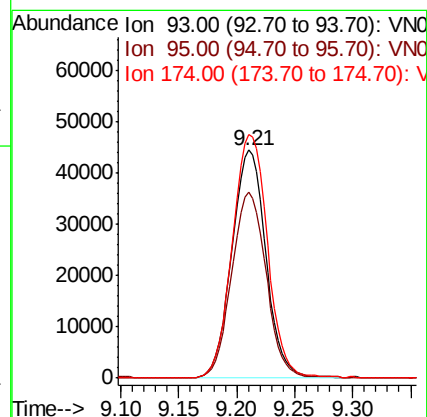
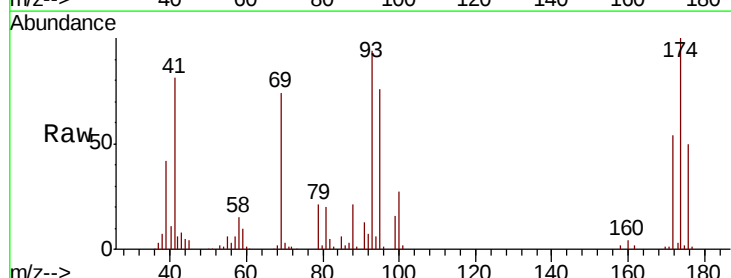
Tgt Ion: 93 Resp: 90576

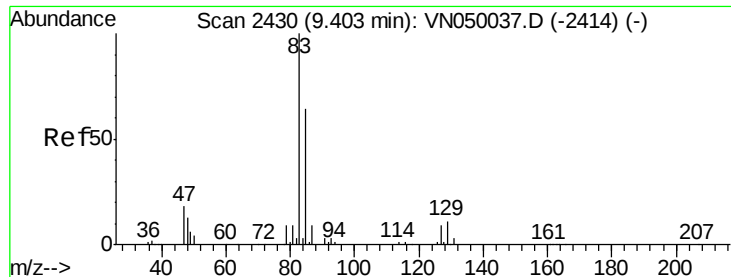
Ion Ratio Lower Upper

93 100

95 82.6 0.0 165.6

174 110.2 0.0 223.2





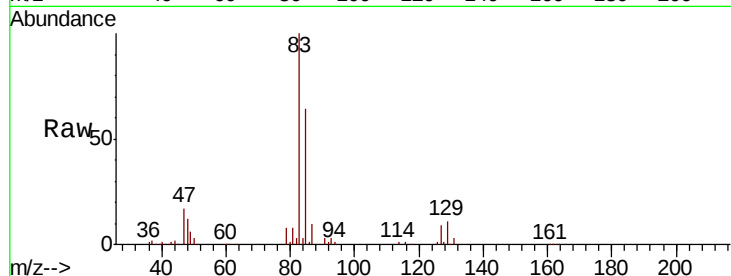
#41
 Bromodichloromethane
 Concen: 19.60 ug/l
 RT: 9.40 min Scan# 2430
 Delta R.T. 0.00 min
 Lab File: VN050767.D
 Acq: 20 Aug 2018 12:08

Instrument :
 MSVOA_N
 ClientSampled :
 VN0820WBSD01

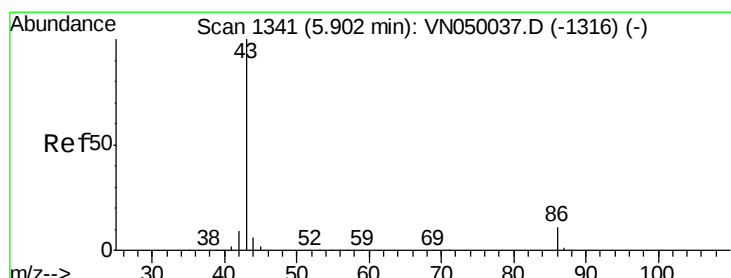
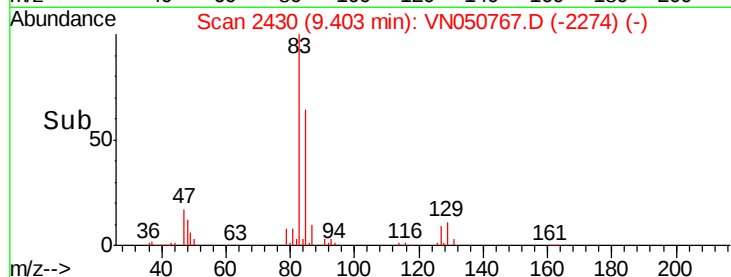
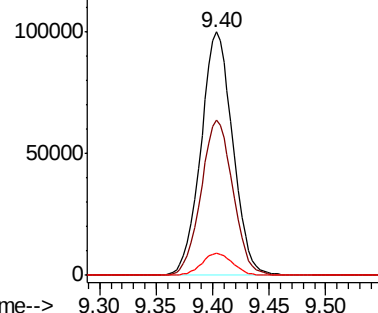
Tot Ion	83	Resp	195481
Ion Ratio	100	Lower	Upper
83	100		
85	63.6	52.6	78.8
127	9.2	7.0	10.4

Manual Integrations
 APPROVED

MMDadoda
 8/21/2018 2:13:04 PM

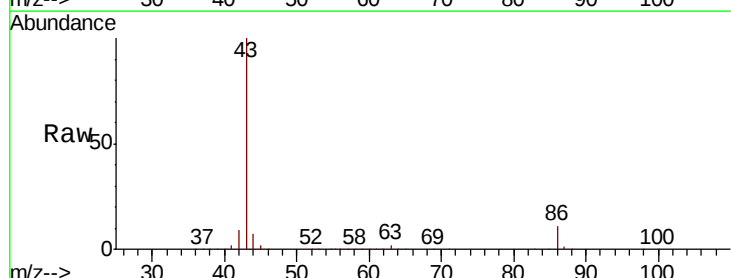


Abundance Ion 83.00 (82.70 to 83.70): VN0
 Ion 85.00 (84.70 to 85.70): VN0
 Ion 127.00 (126.70 to 127.70): V

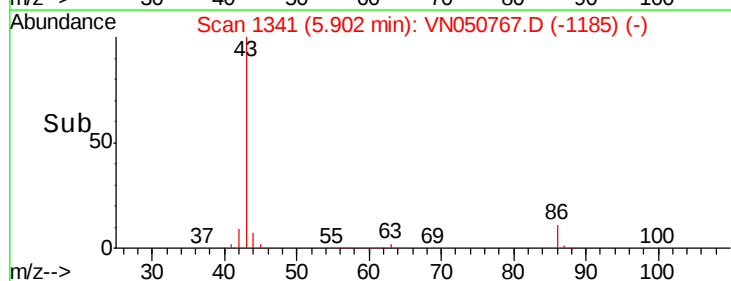
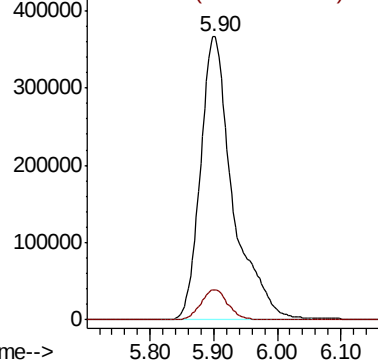


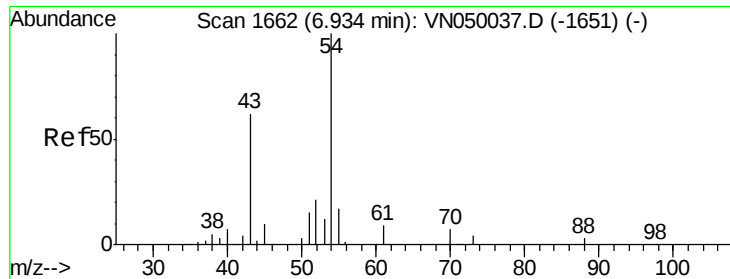
#42
 Vinyl Acetate
 Concen: 91.84 ug/l
 RT: 5.90 min Scan# 1341
 Delta R.T. 0.00 min
 Lab File: VN050767.D
 Acq: 20 Aug 2018 12:08

Tgt Ion	43	Resp	1296541
Ion Ratio	100	Lower	Upper
43	100		
86	9.0	7.3	10.9



Abundance Ion 43.00 (42.70 to 43.70): VN0
 Ion 86.00 (85.70 to 86.70): VN0





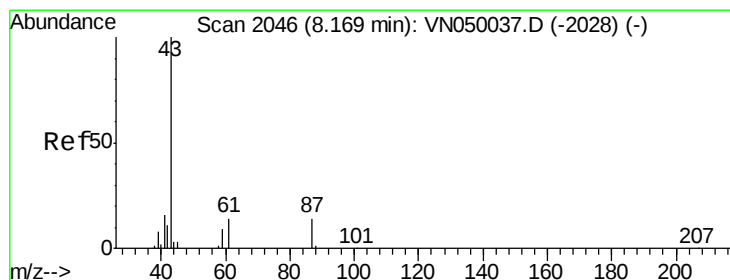
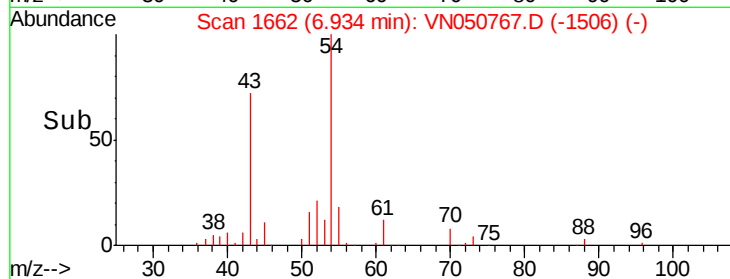
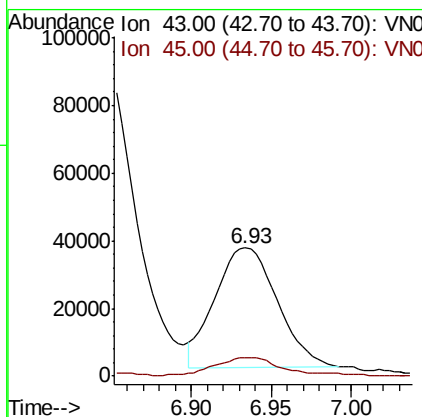
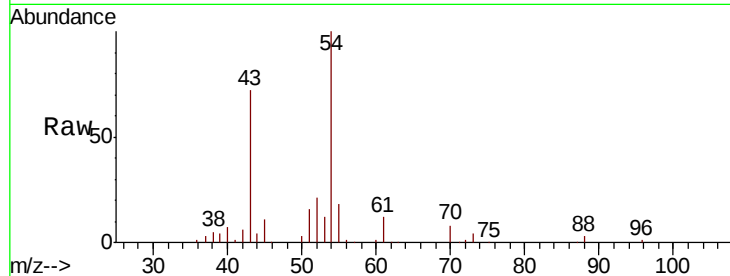
#43
Ethyl Acetate
Concen: 15.18 ug/l
RT: 6.93 min Scan# 1662
Delta R.T. 0.00 min
Lab File: VN050767.D
Acq: 20 Aug 2018 12:08

Instrument :
MSVOA_N
ClientSampleId :
VN0820WBSD01

Tot Ion: 43 Resp: 95115
Ion Ratio Lower Upper
43 100
45 14.3 13.0 19.6

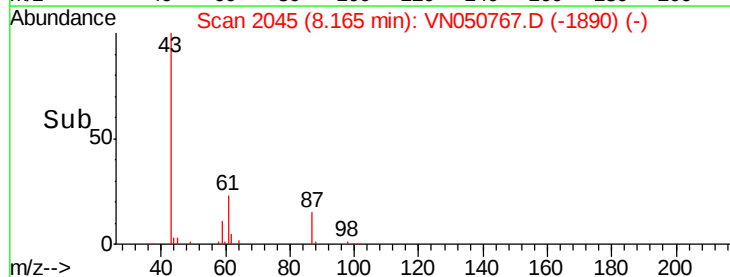
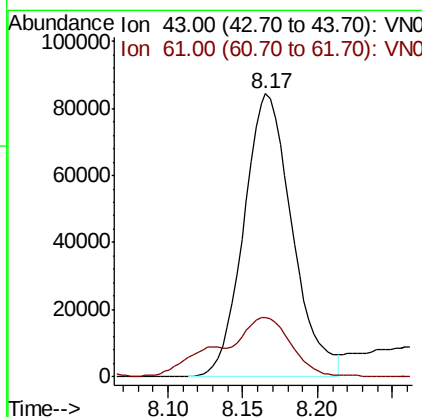
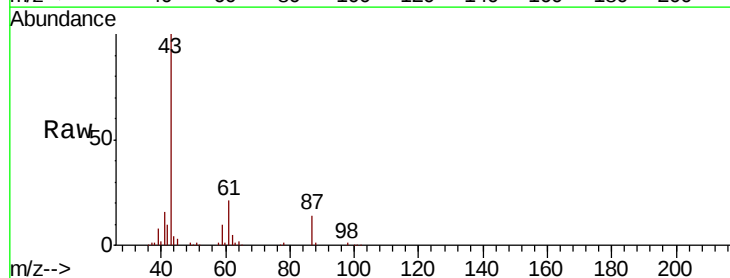
Manual Integrations
APPROVED

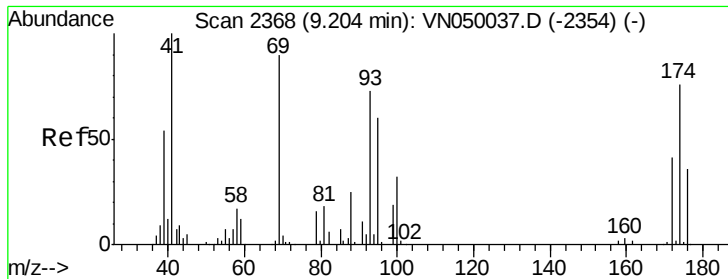
MMDadoda
8/21/2018 2:13:04 PM



#44
Isopropyl Acetate
Concen: 16.30 ug/l
RT: 8.17 min Scan# 2045
Delta R.T. -0.00 min
Lab File: VN050767.D
Acq: 20 Aug 2018 12:08

Tgt Ion: 43 Resp: 189216
Ion Ratio Lower Upper
43 100
61 21.2 16.4 24.6





#45

1,4-Dioxane

Concen: 336.78 ug/l

RT: 9.20 min Scan# 2367

Delta R.T. -0.00 min

Lab File: VN050767.D

Acq: 20 Aug 2018 12:08

Instrument :

MSVOA_N

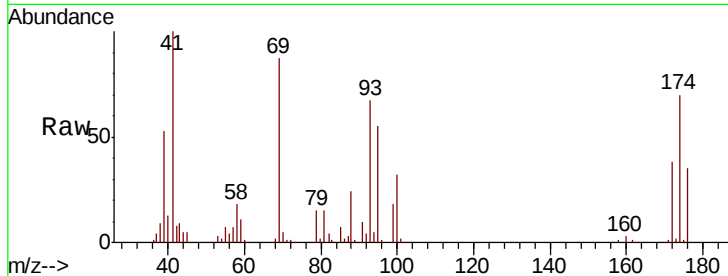
ClientSampled :

VN0820WBSD01

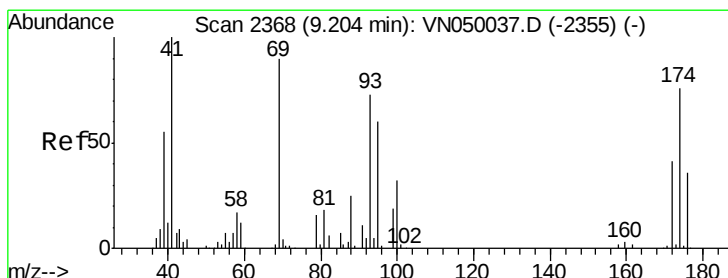
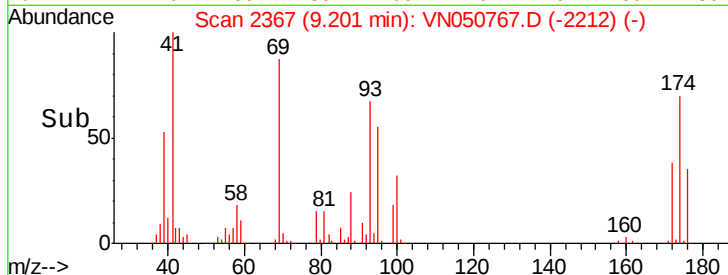
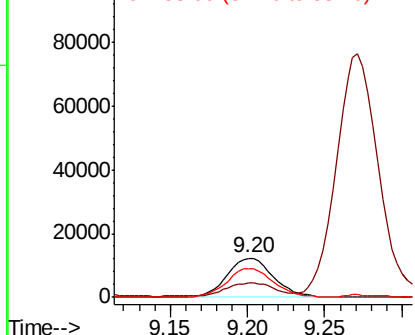
Tot Ion:	88	Resp:	25719
Ion	Ratio	Lower	Upper
88	100		
43	35.7	26.9	40.3
58	73.7	53.6	80.4

Manual Integrations
APPROVED

MMDadoda
8/21/2018 2:13:04 PM



Abundance Ion 88.00 (87.70 to 88.70): VN0
Ion 43.00 (42.70 to 43.70): VN0
Ion 58.00 (57.70 to 58.70): VN0



#46

Methyl methacrylate

Concen: 16.25 ug/l

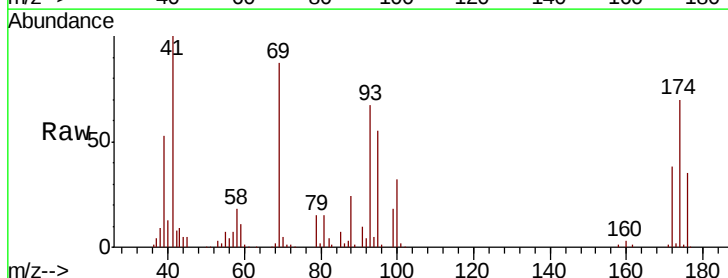
RT: 9.20 min Scan# 2367

Delta R.T. -0.00 min

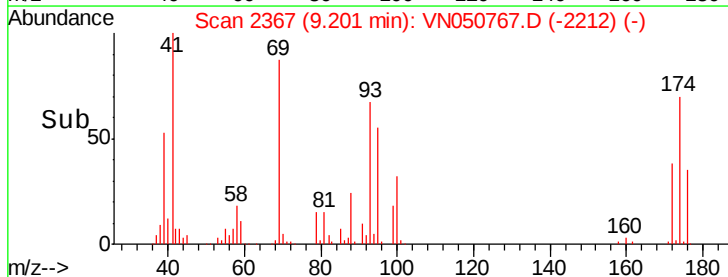
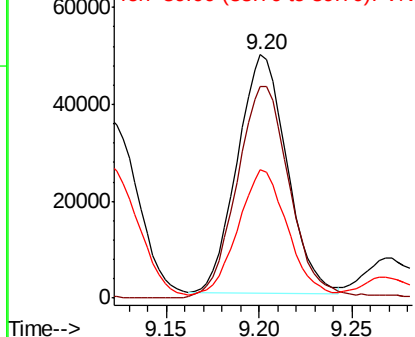
Lab File: VN050767.D

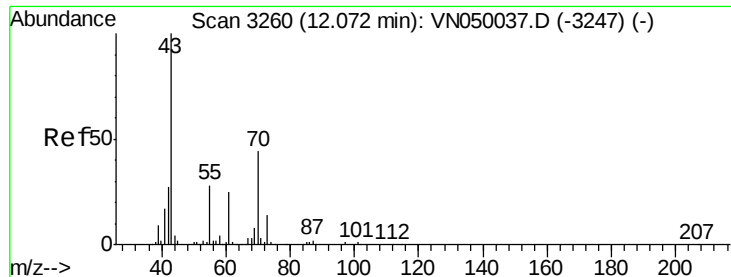
Acq: 20 Aug 2018 12:08

Tgt Ion:	41	Resp:	91416
Ion	Ratio	Lower	Upper
41	100		
69	88.1	44.0	132.1
39	52.3	27.0	80.8



Abundance Ion 41.00 (40.70 to 41.70): VN0
Ion 69.00 (68.70 to 69.70): VN0
Ion 39.00 (38.70 to 39.70): VN0





#47

n-amvl Acetate

Concen: 16.13 ug/l

RT: 12.07 min Scan# 3259

Delta R.T. -0.00 min

Lab File: VN050767.D

Acq: 20 Aug 2018 12:08

Instrument :

MSVOA_N

ClientSampled :

VN0820WBSD01

Tot Ion: 43 Resp: 145705

Ion Ratio Lower Upper

43 100

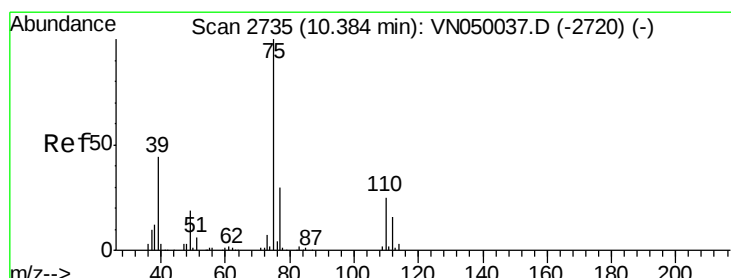
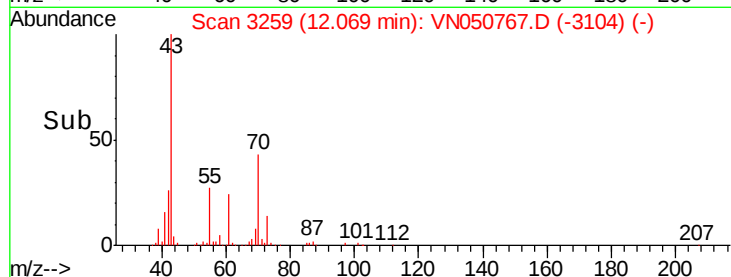
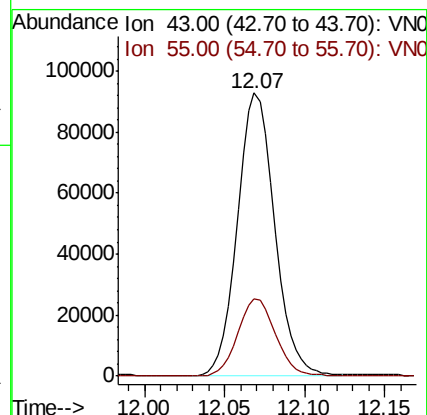
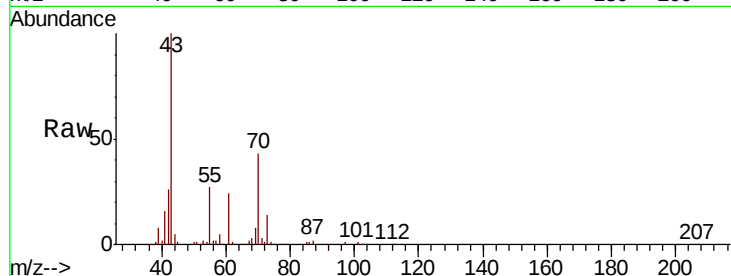
55 28.0 21.0 31.4

Manual Integrations

APPROVED

MMDadoda

8/21/2018 2:13:04 PM



#48

t-1,3-Dichloropropene

Concen: 19.44 ug/l

RT: 10.38 min Scan# 2735

Delta R.T. 0.00 min

Lab File: VN050767.D

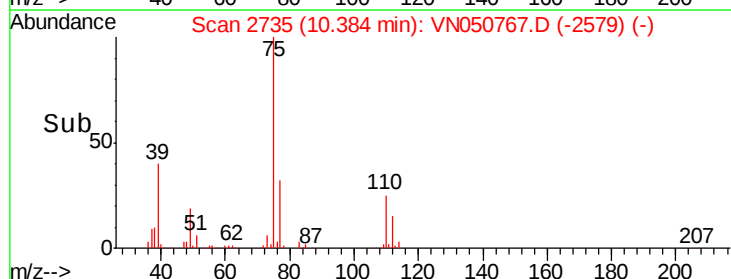
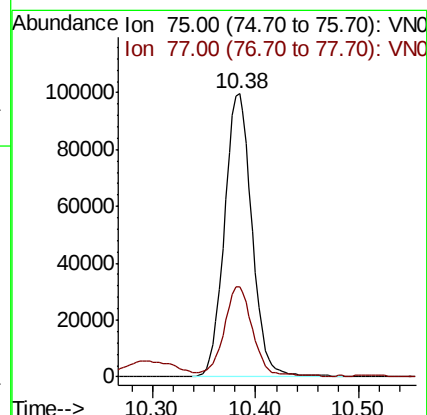
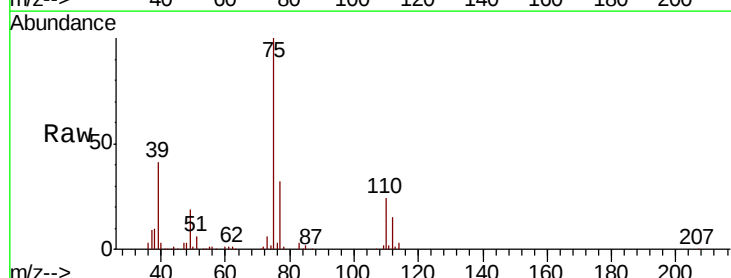
Acq: 20 Aug 2018 12:08

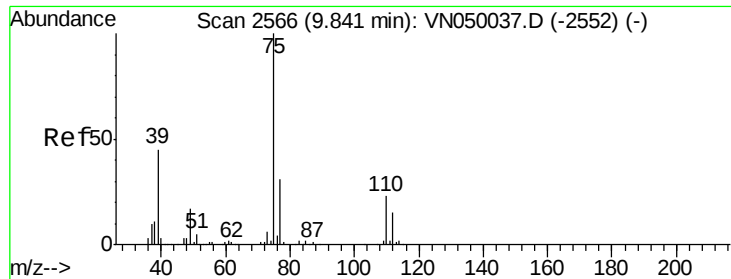
Tgt Ion: 75 Resp: 184768

Ion Ratio Lower Upper

75 100

77 31.6 24.6 37.0





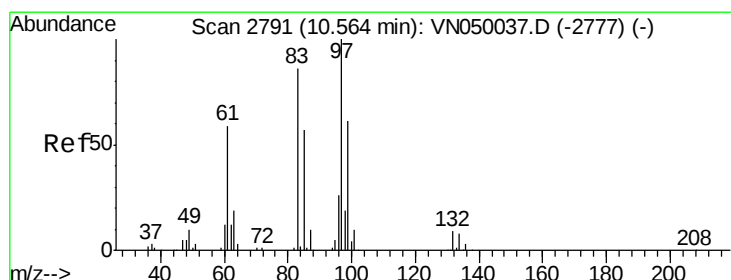
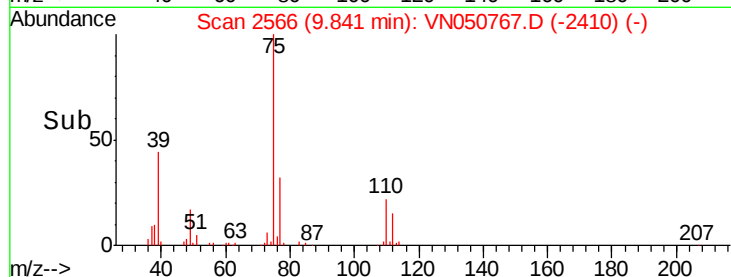
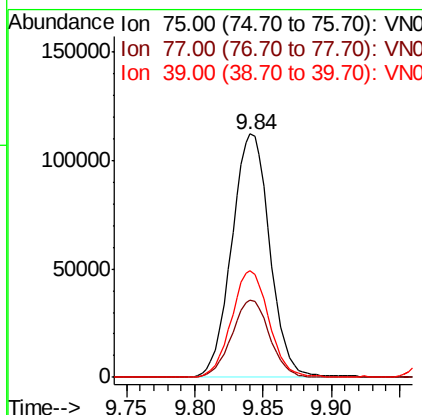
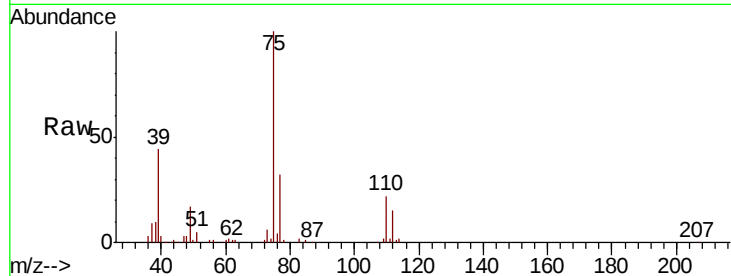
#49
 cis-1,3-Dichloropropene
 Concen: 19.45 ug/l
 RT: 9.84 min Scan# 2566
 Delta R.T. 0.00 min
 Lab File: VN050767.D
 Acq: 20 Aug 2018 12:08

Instrument :
 MSVOA_N
 ClientSampled :
 VN0820WBSD01

Tot Ion	Ratio	Lower	Upper
75	100		
77	31.7	25.7	38.5
39	43.7	36.3	54.5

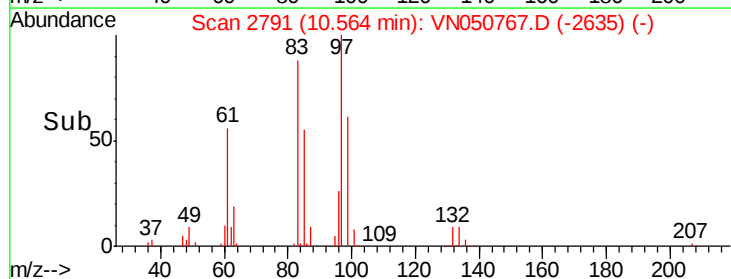
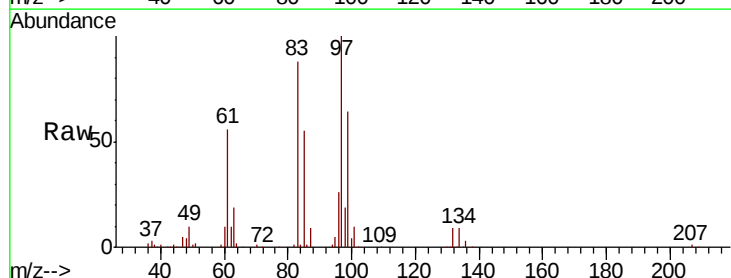
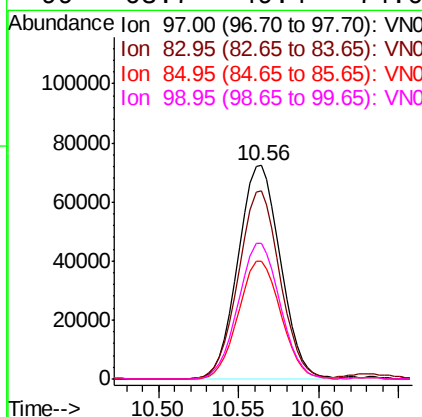
Manual Integrations
 APPROVED

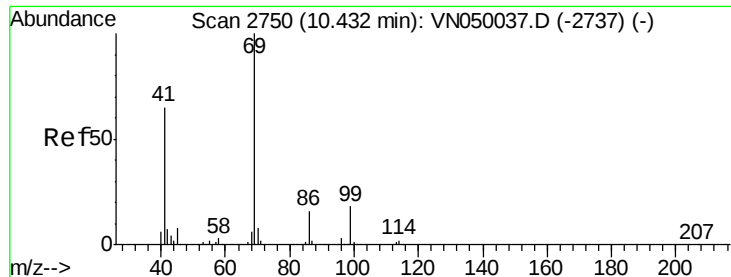
MMDadoda
 8/21/2018 2:13:04 PM



#50
 1,1,2-Trichloroethane
 Concen: 19.31 ug/l
 RT: 10.56 min Scan# 2791
 Delta R.T. 0.00 min
 Lab File: VN050767.D
 Acq: 20 Aug 2018 12:08

Tgt Ion	Ratio	Lower	Upper
97	100		
83	88.1	68.1	102.1
85	55.4	45.4	68.2
99	63.7	49.4	74.0





#51

Ethyl methacrylate

Concen: 17.35 ug/l

RT: 10.43 min Scan# 2749

Delta R.T. -0.00 min

Lab File: VN050767.D

Acq: 20 Aug 2018 12:08

Instrument :

MSVOA_N

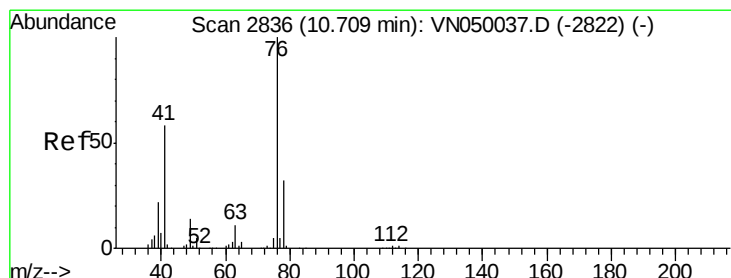
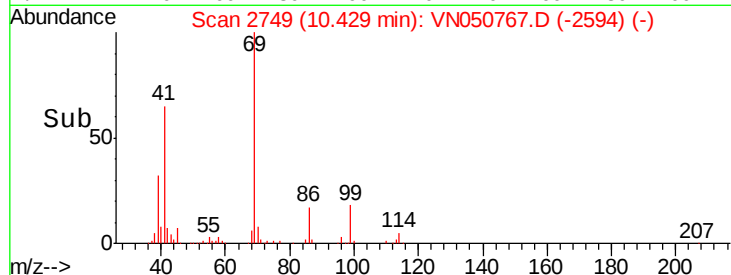
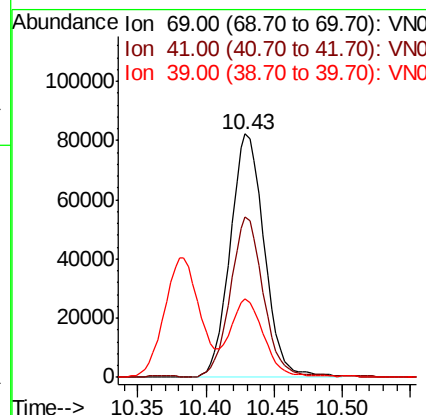
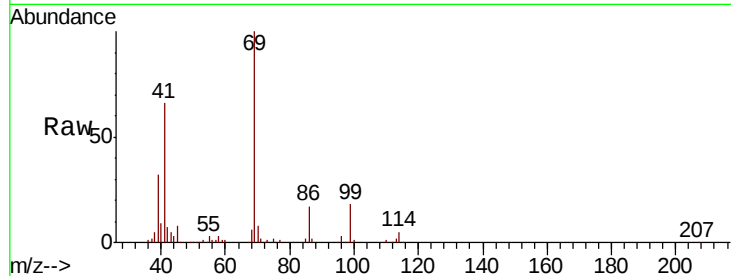
ClientSampleId :

VN0820WBSD01

Tot Ion:	69	Resp:	142909
Ion	Ratio	Lower	Upper
69	100		
41	65.4	31.9	95.9
39	31.7	16.7	50.1

Manual Integrations
APPROVED

MMDadoda
8/21/2018 2:13:04 PM



#52

1,3-Dichloropropane

Concen: 19.25 ug/l

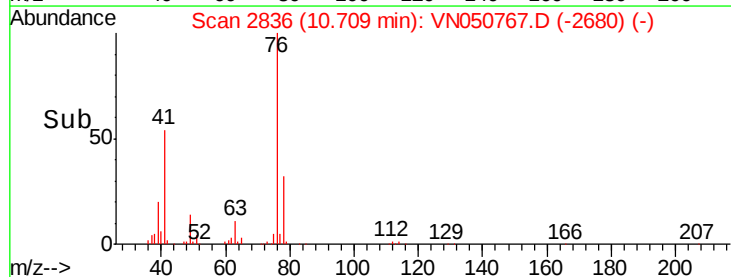
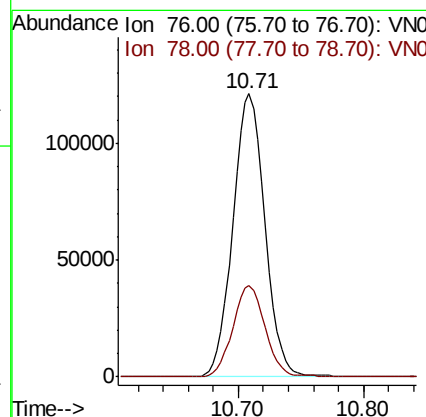
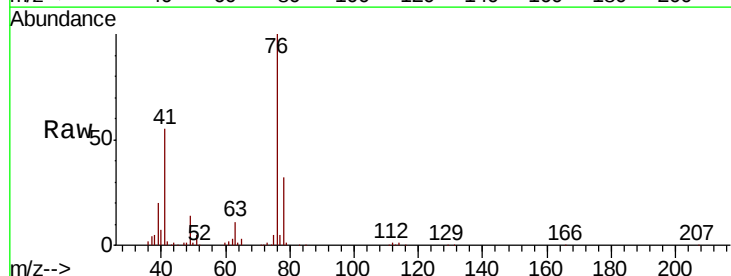
RT: 10.71 min Scan# 2836

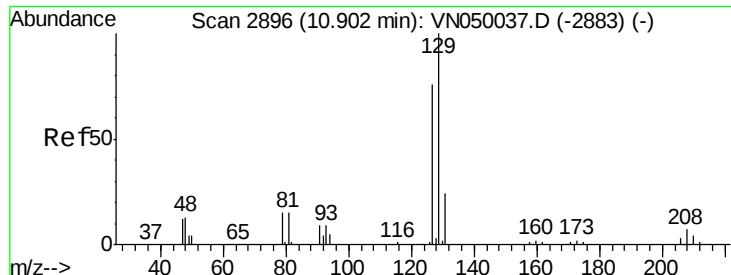
Delta R.T. 0.00 min

Lab File: VN050767.D

Acq: 20 Aug 2018 12:08

Tgt Ion:	76	Resp:	214517
Ion	Ratio	Lower	Upper
76	100		
78	32.4	0.0	65.6





#53

Dibromochloromethane

Concen: 19.13 ug/l

RT: 10.90 min Scan# 2896

Delta R.T. 0.00 min

Lab File: VN050767.D

Acq: 20 Aug 2018 12:08

Instrument :

MSVOA_N

ClientSampleId :

VN0820WBSD01

Tot Ion:129 Resp: 147298

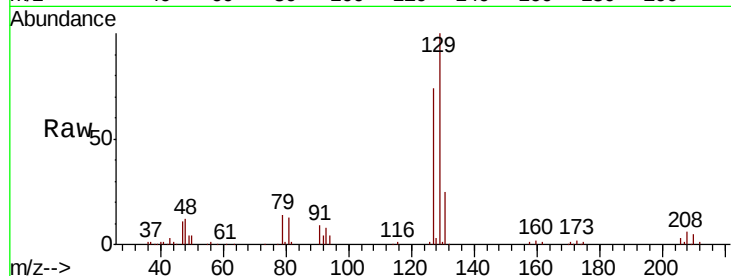
Ion Ratio Lower Upper

129 100

127 76.0 38.1 114.5

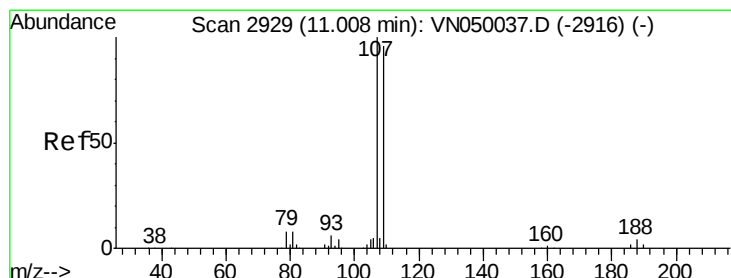
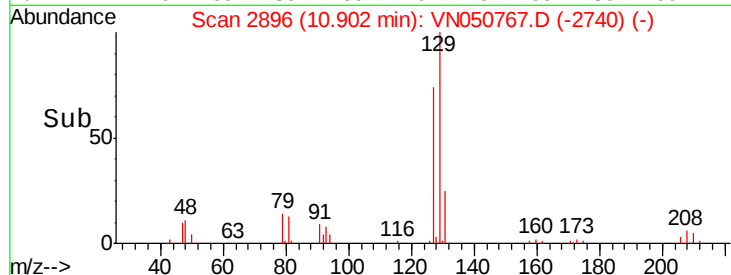
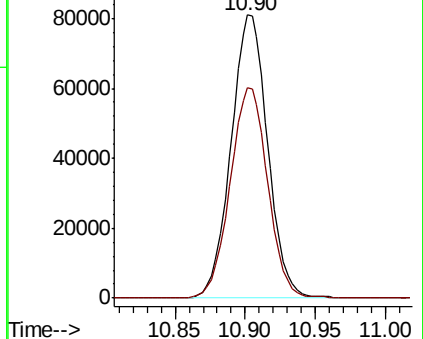
Manual Integrations
APPROVED

MMDadoda
8/21/2018 2:13:04 PM



Abundance Ion 129.00 (128.70 to 129.70): V

Ion 127.00 (126.70 to 127.70): V



#54

1,2-Dibromoethane

Concen: 18.30 ug/l

RT: 11.01 min Scan# 2929

Delta R.T. 0.00 min

Lab File: VN050767.D

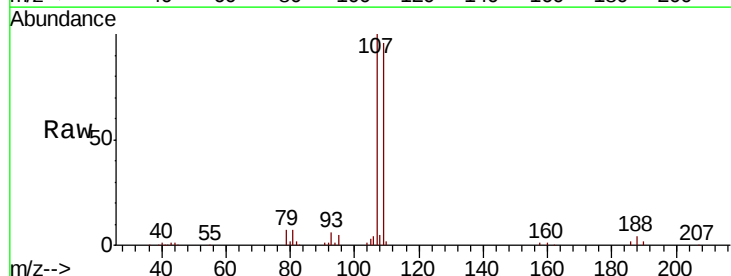
Acq: 20 Aug 2018 12:08

Tgt Ion:107 Resp: 121614

Ion Ratio Lower Upper

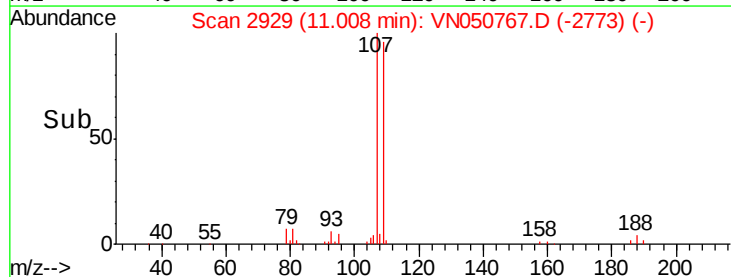
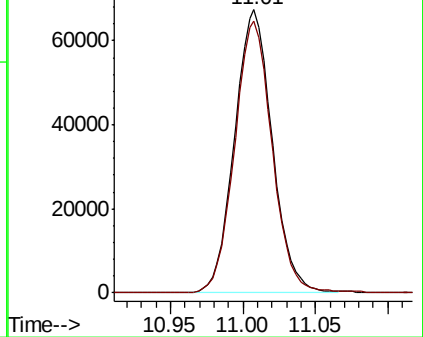
107 100

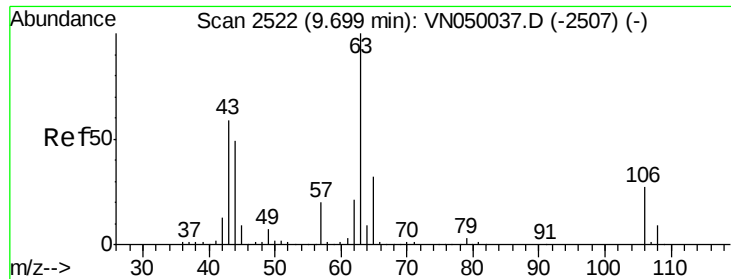
109 95.7 76.2 114.2



Abundance Ion 107.00 (106.70 to 107.70): V

Ion 109.00 (108.70 to 109.70): V





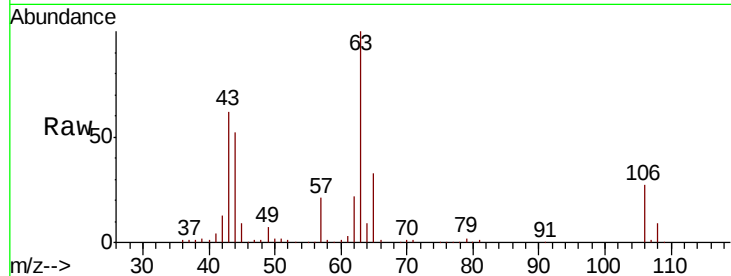
#55
2-Chloroethyl vinyl ether
Concen: 91.11 ug/l
RT: 9.70 min Scan# 2521
Delta R.T. -0.00 min
Lab File: VN050767.D
Acq: 20 Aug 2018 12:08

Instrument :
MSVOA_N
ClientSampleId :
VN0820WBSD01

Tot Ion	Ratio	Lower	Upper
63	100		
65	32.9	25.5	38.3
106	27.0	21.8	32.6

Manual Integrations
APPROVED

MMDadoda
8/21/2018 2:13:04 PM

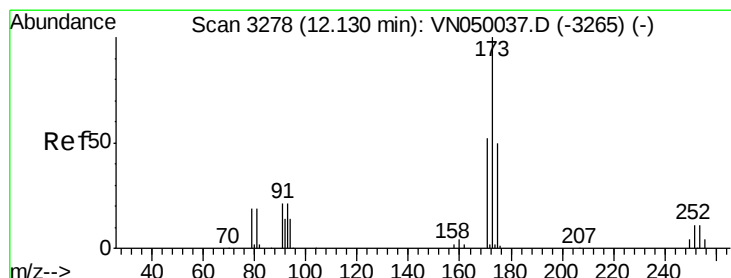
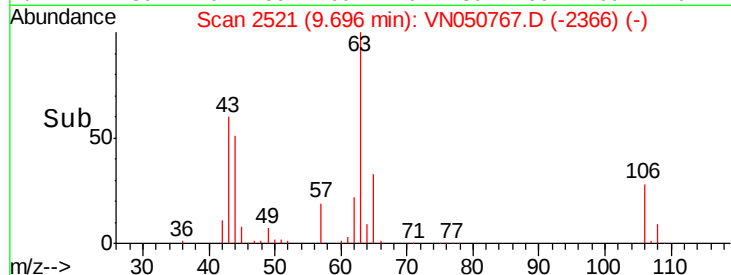
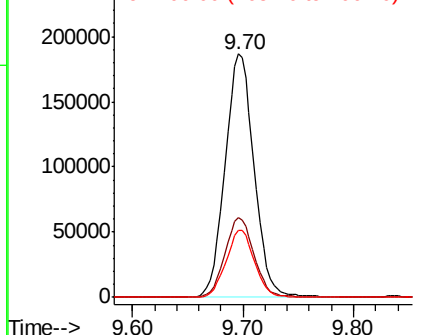


Abundance

Ion 63.00 (62.70 to 63.70): VN050037.D (-2507) (-)

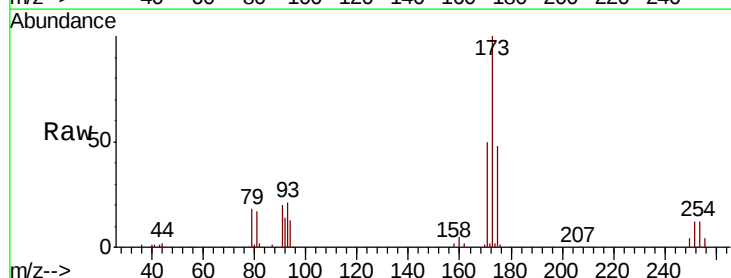
Ion 65.00 (64.70 to 65.70): VN050037.D (-2507) (-)

Ion 106.00 (105.70 to 106.70): VN050037.D (-2507) (-)



#56
Bromoform
Concen: 17.79 ug/l
RT: 12.13 min Scan# 3277
Delta R.T. -0.00 min
Lab File: VN050767.D
Acq: 20 Aug 2018 12:08

Tgt Ion	Ratio	Lower	Upper
173	100		
175	47.4	38.6	57.8
254	11.9	8.8	13.2

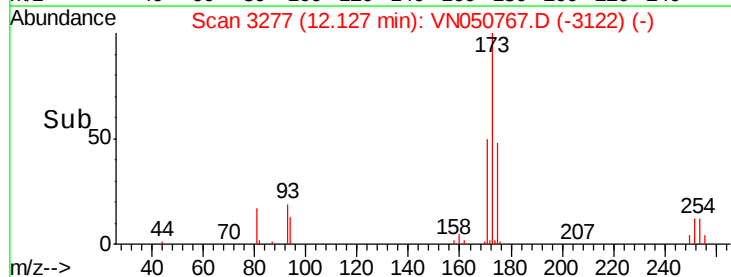
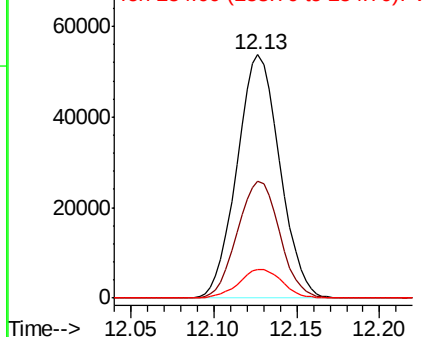


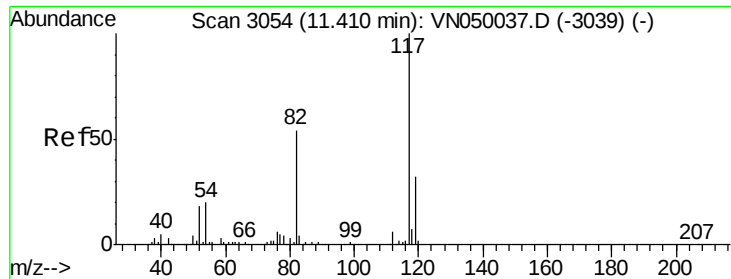
Abundance

Ion 173.00 (172.70 to 173.70): VN050037.D (-3265) (-)

Ion 175.00 (174.70 to 175.70): VN050037.D (-3265) (-)

Ion 254.00 (253.70 to 254.70): VN050037.D (-3265) (-)





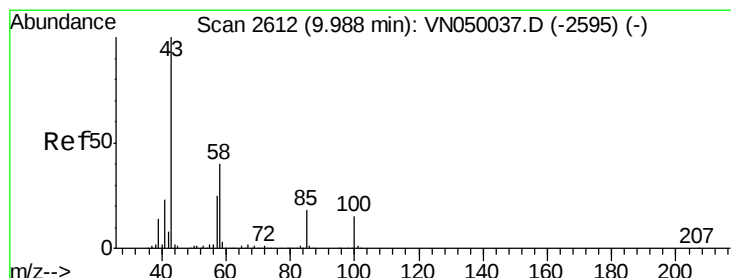
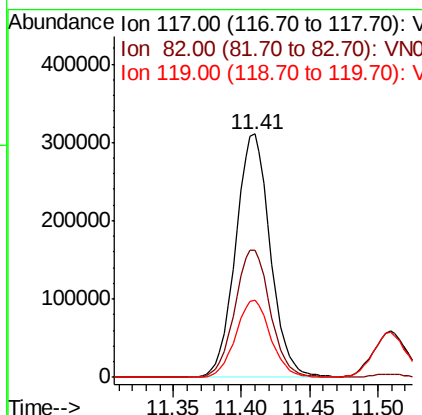
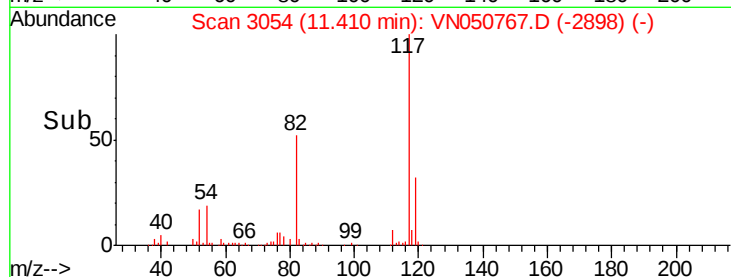
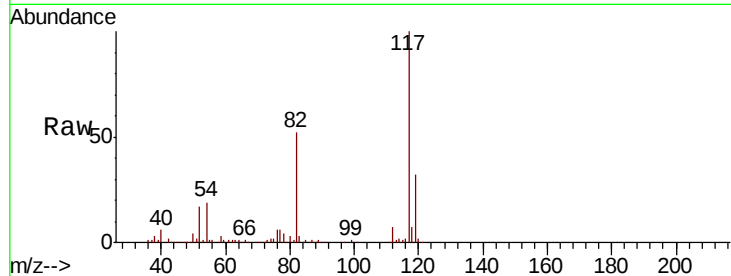
#57
Chlorobenzene-d5
Concen: 30.00 ug/l
RT: 11.41 min Scan# 3054
Delta R.T. 0.00 min
Lab File: VN050767.D
Acq: 20 Aug 2018 12:08

Instrument :
MSVOA_N
ClientSampleId :
VN0820WBSD01

Tot Ion	Ratio	Lower	Upper
117	100		
82	53.7	42.4	63.6
119	32.2	25.4	38.0

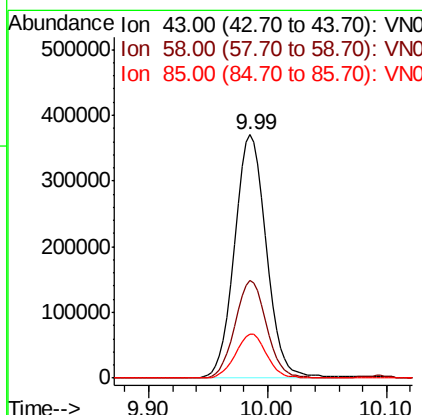
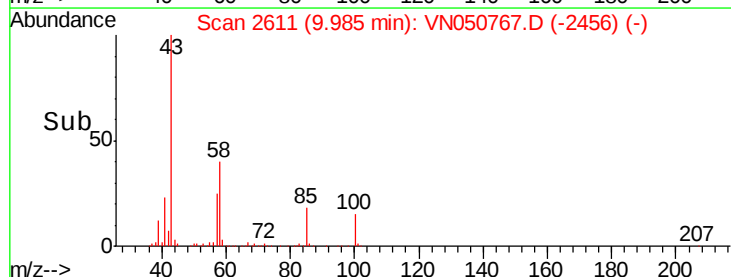
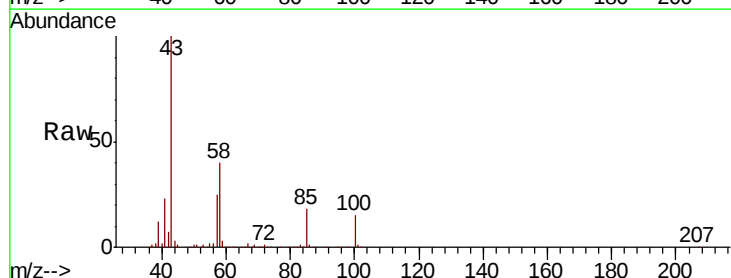
Manual Integrations
APPROVED

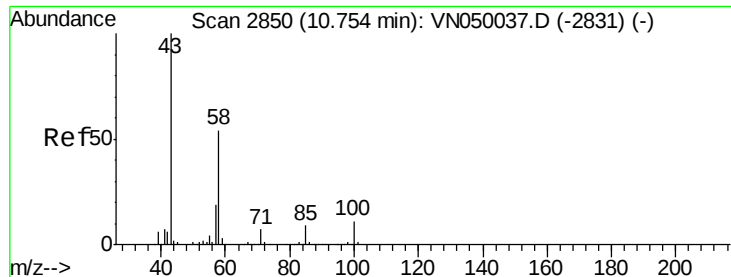
MMDadoda
8/21/2018 2:13:04 PM



#58
4-Methyl-2-Pentanone
Concen: 107.24 ug/l
RT: 9.99 min Scan# 2611
Delta R.T. -0.00 min
Lab File: VN050767.D
Acq: 20 Aug 2018 12:08

Tgt Ion	Ratio	Lower	Upper
43	100		
58	40.2	31.2	46.8
85	17.9	14.4	21.6





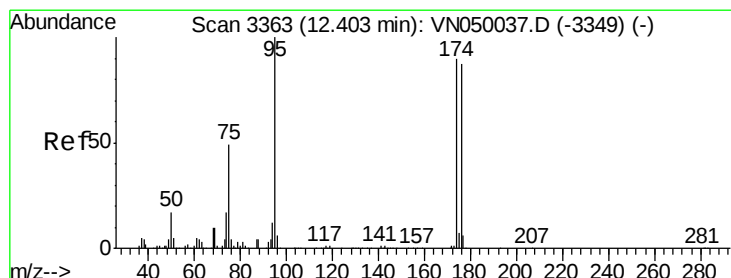
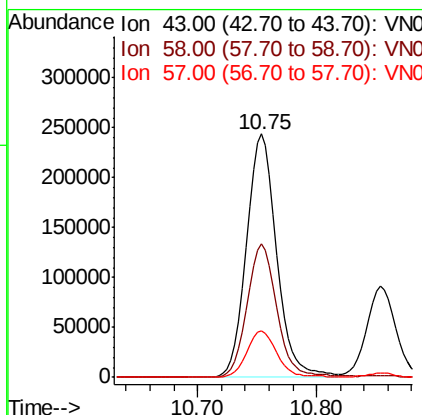
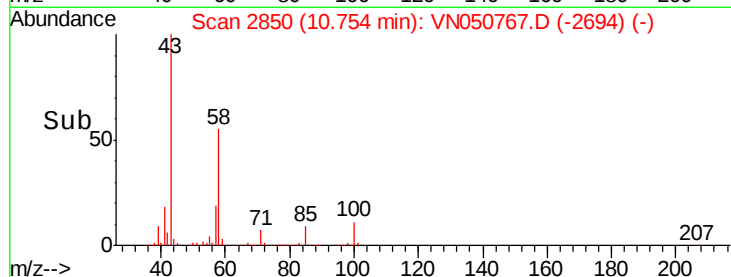
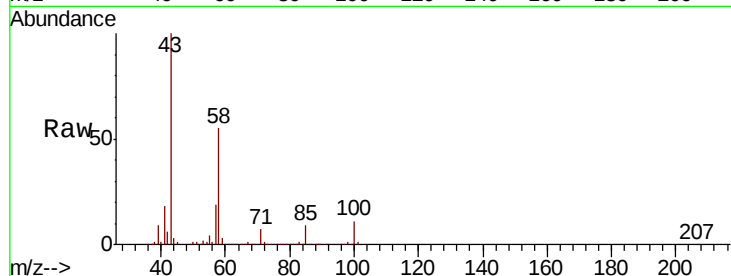
#59
2-Hexanone
Concen: 98.39 ug/l
RT: 10.75 min Scan# 2850
Delta R.T. 0.00 min
Lab File: VN050767.D
Acq: 20 Aug 2018 12:08

Instrument :
MSVOA_N
ClientSampleId :
VN0820WBSD01

Tot Ion	Ratio	Lower	Upper
43	100		
58	54.6	43.8	65.8
57	19.1	15.1	22.7

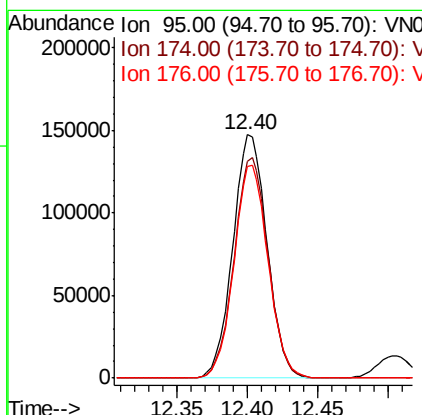
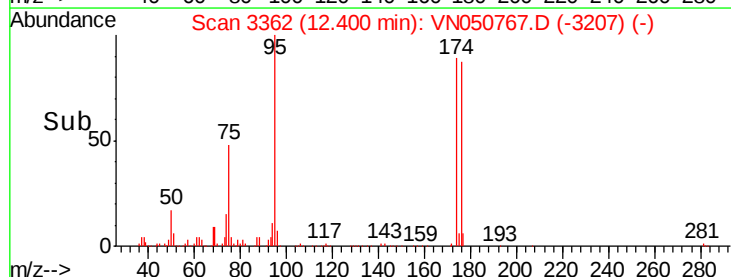
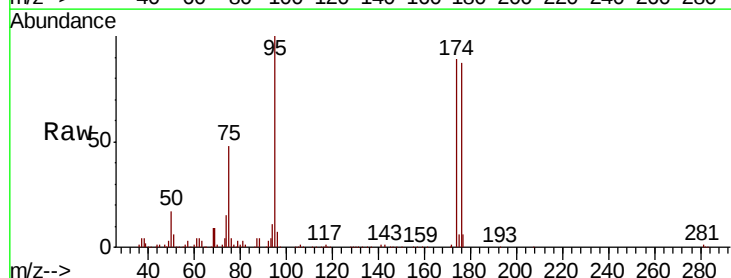
Manual Integrations
APPROVED

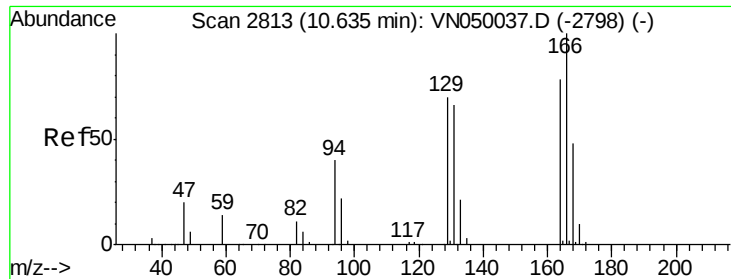
MMDadoda
8/21/2018 2:13:04 PM



#60
4-Bromofluorobenzene
Concen: 29.79 ug/l
RT: 12.40 min Scan# 3362
Delta R.T. -0.00 min
Lab File: VN050767.D
Acq: 20 Aug 2018 12:08

Tgt Ion	Ratio	Lower	Upper
95	100		
174	90.2	72.3	108.5
176	87.2	70.0	105.0





#61

Tetrachloroethene

Concen: 19.17 ug/l

RT: 10.63 min Scan# 2812

Delta R.T. -0.00 min

Lab File: VN050767.D

Acq: 20 Aug 2018 12:08

Instrument :

MSVOA_N

ClientSampleId :

VN0820WBSD01

Tot Ion:164 Resp: 141997

Ion Ratio Lower Upper

164 100

166 125.1 100.0 150.0

129 87.8 69.3 103.9

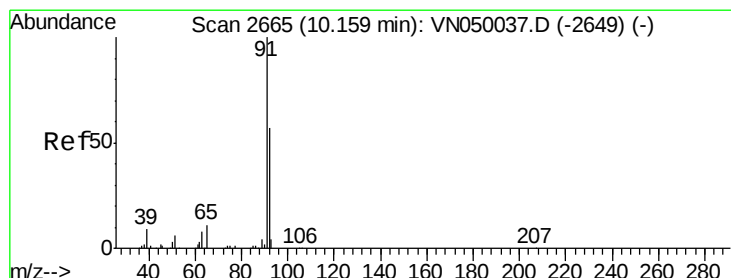
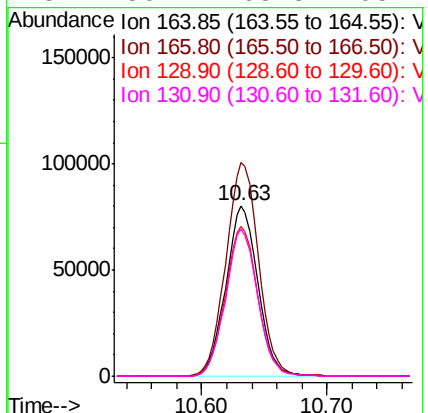
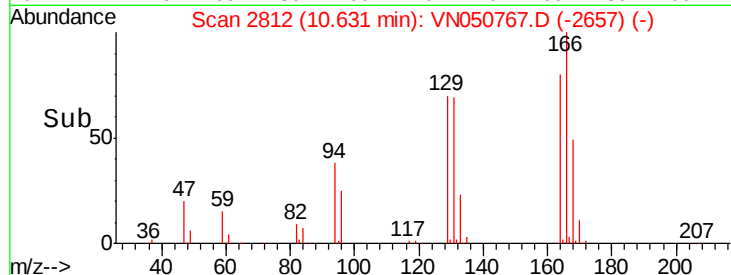
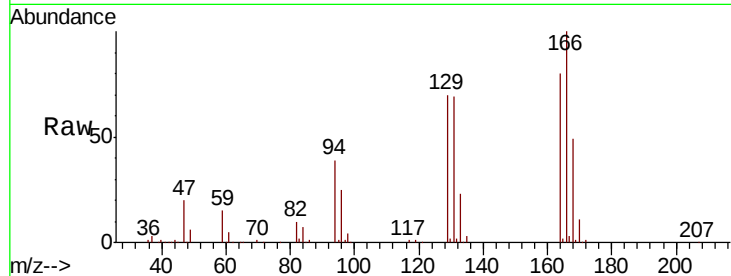
131 86.2 68.8 103.2

Manual Integrations

APPROVED

MMDadoda

8/21/2018 2:13:04 PM



#62

Toluene

Concen: 20.16 ug/l

RT: 10.16 min Scan# 2664

Delta R.T. -0.00 min

Lab File: VN050767.D

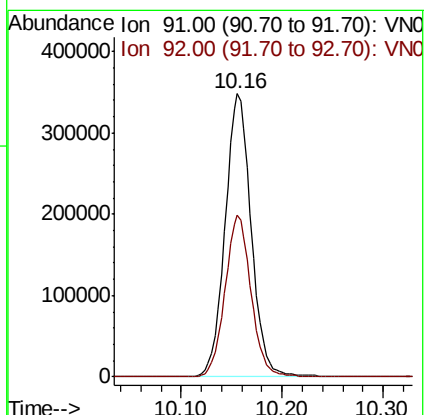
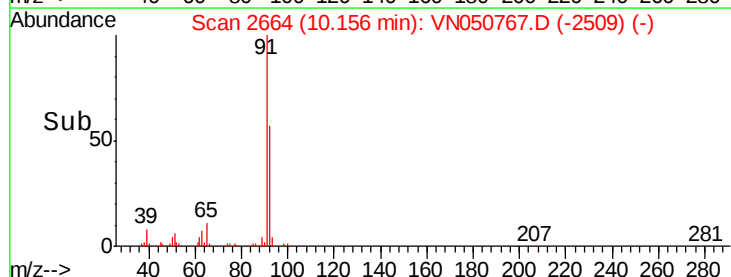
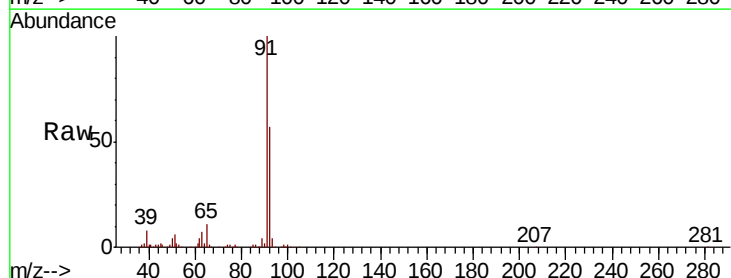
Acq: 20 Aug 2018 12:08

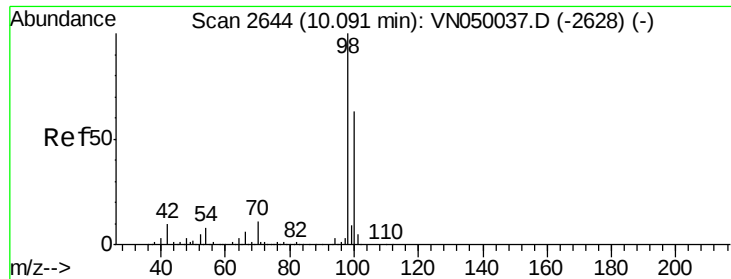
Tgt Ion: 91 Resp: 628886

Ion Ratio Lower Upper

91 100

92 56.9 45.7 68.5





#63

Toluene-d8

Concen: 30.31 ug/l

RT: 10.09 min Scan# 2644

Delta R.T. 0.00 min

Lab File: VN050767.D

Acq: 20 Aug 2018 12:08

Instrument :

MSVOA_N

ClientSampleId :

VN0820WBSD01

Tot Ion: 98 Resp: 791705

Ion Ratio Lower Upper

98 100

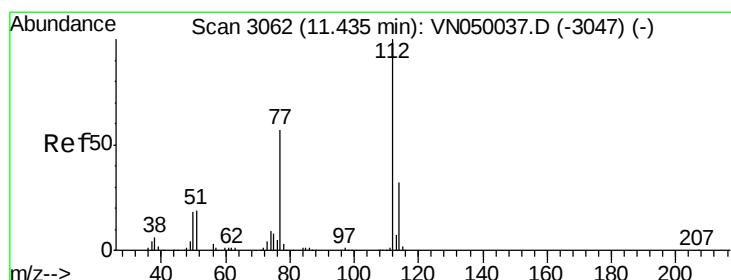
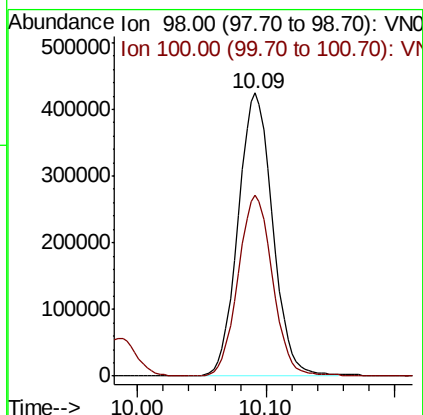
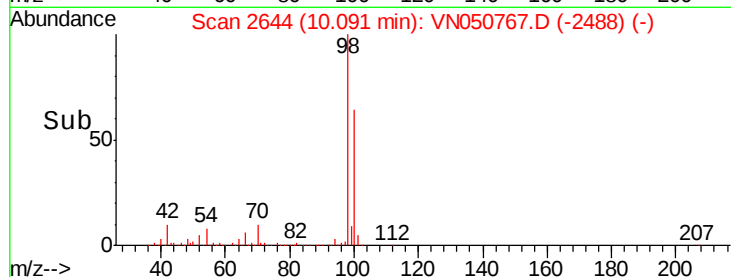
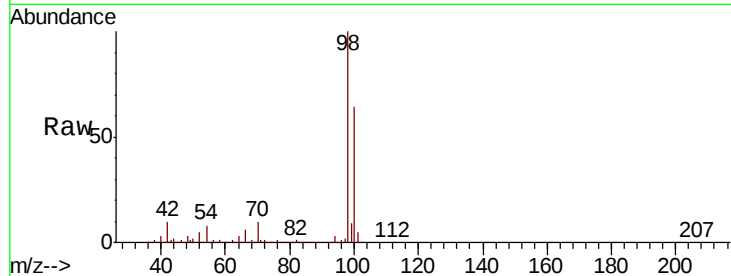
100 63.7 51.2 76.8

Manual Integrations

APPROVED

MMDadoda

8/21/2018 2:13:04 PM



#64

Chlorobenzene

Concen: 20.23 ug/l

RT: 11.44 min Scan# 3062

Delta R.T. 0.00 min

Lab File: VN050767.D

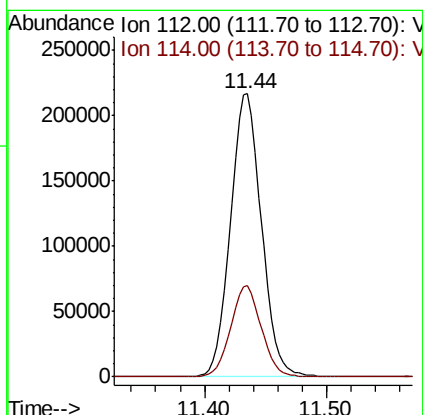
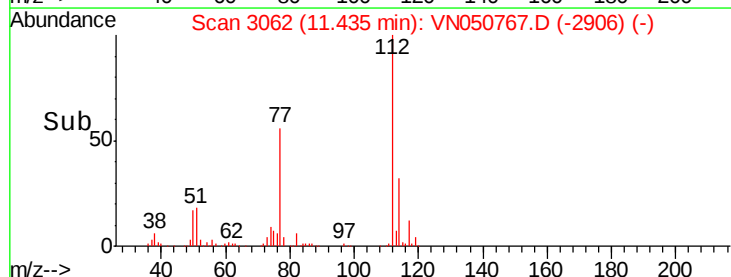
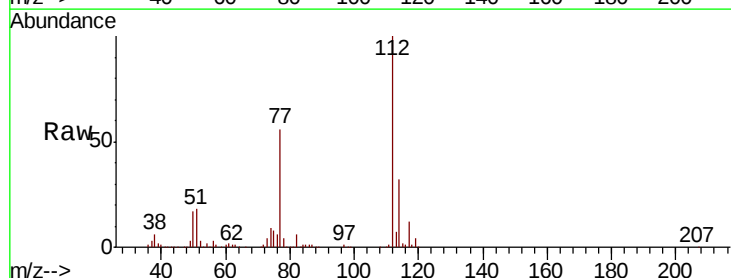
Acq: 20 Aug 2018 12:08

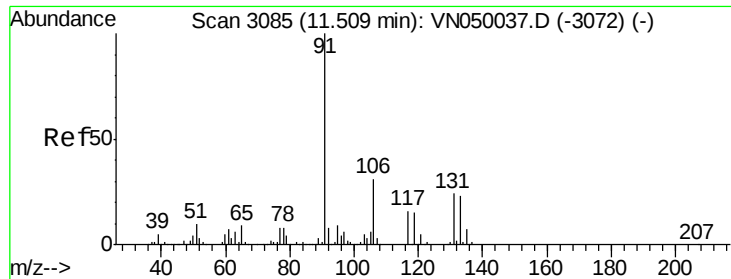
Tgt Ion: 112 Resp: 382788

Ion Ratio Lower Upper

112 100

114 32.2 26.2 39.2





#65

1,1,1,2-Tetrachloroethane

Concen: 19.87 ug/l

RT: 11.51 min Scan# 3085

Delta R.T. 0.00 min

Lab File: VN050767.D

Acq: 20 Aug 2018 12:08

Instrument :

MSVOA_N

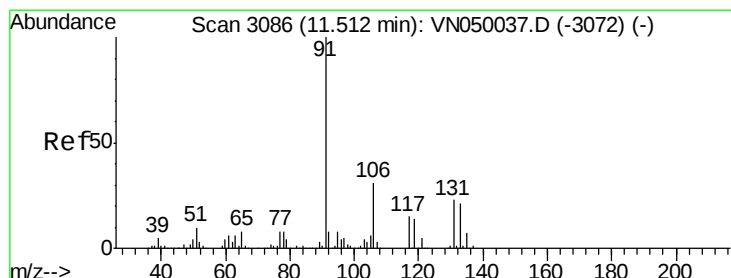
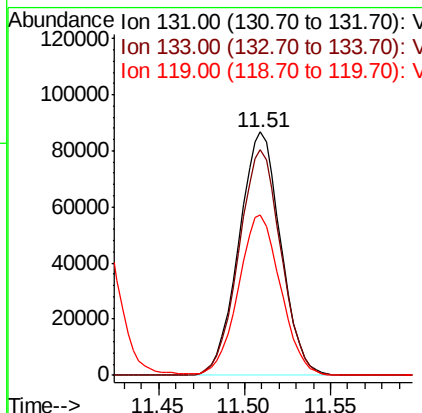
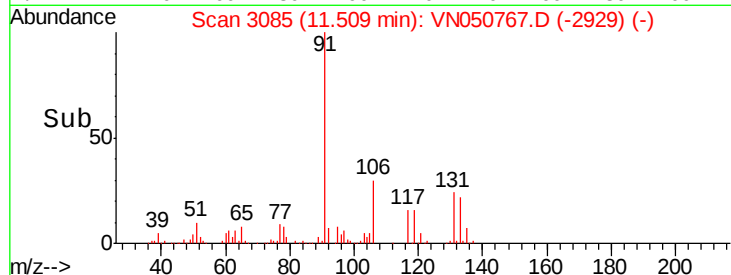
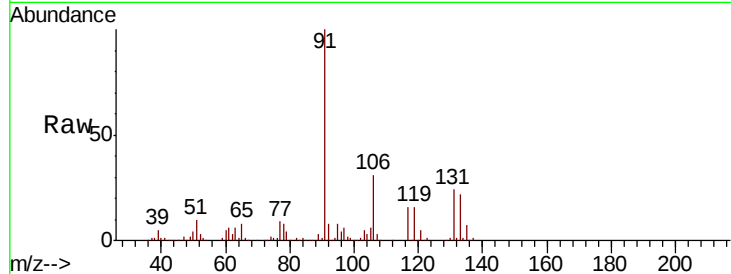
ClientSampled :

VN0820WBSD01

Tot Ion:	131	Resp:	146670
Ion Ratio	Lower	Upper	
131	100		
133	93.6	0.0	190.0
119	66.5	0.0	131.6

Manual Integrations
APPROVED

MMDadoda
8/21/2018 2:13:04 PM



#66

Ethyl Benzene

Concen: 19.69 ug/l

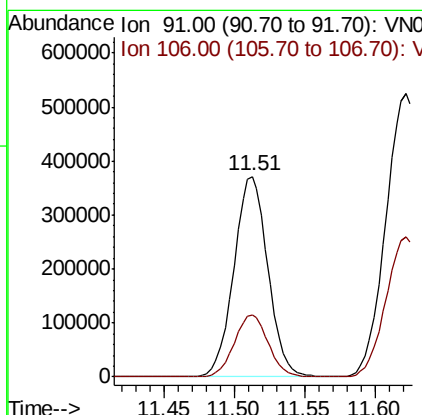
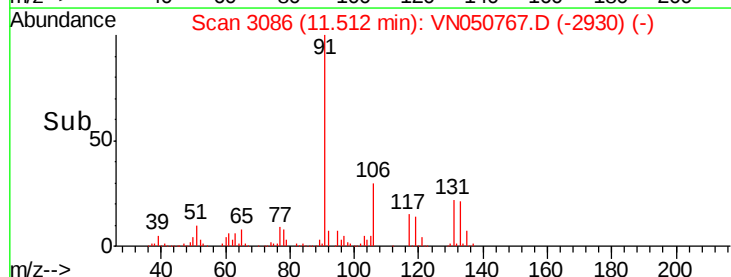
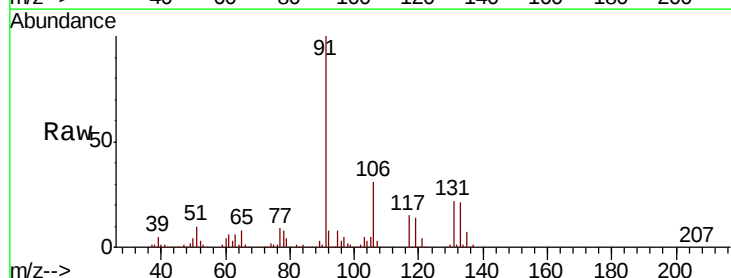
RT: 11.51 min Scan# 3086

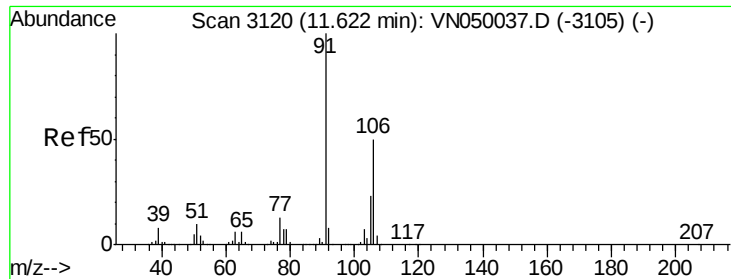
Delta R.T. 0.00 min

Lab File: VN050767.D

Acq: 20 Aug 2018 12:08

Tgt Ion:	91	Resp:	627717
Ion Ratio	Lower	Upper	
91	100		
106	31.1	25.1	37.7





#67

m/p-Xylenes

Concen: 40.78 ug/l

RT: 11.62 min Scan# 3120

Delta R.T. 0.00 min

Lab File: VN050767.D

Acq: 20 Aug 2018 12:08

Instrument :

MSVOA_N

ClientSampled :

VN0820WBSD01

Tot Ion:106 Resp: 500378

Ion Ratio Lower Upper

106 100

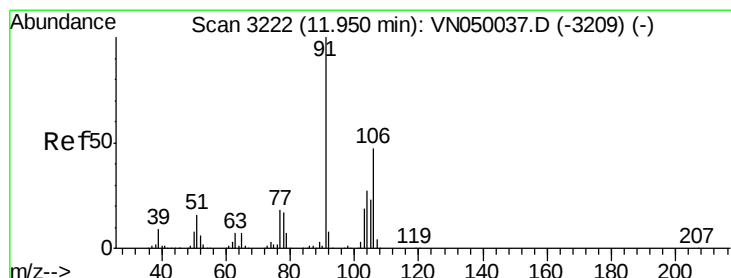
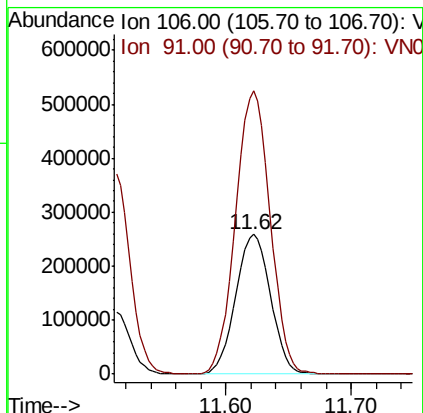
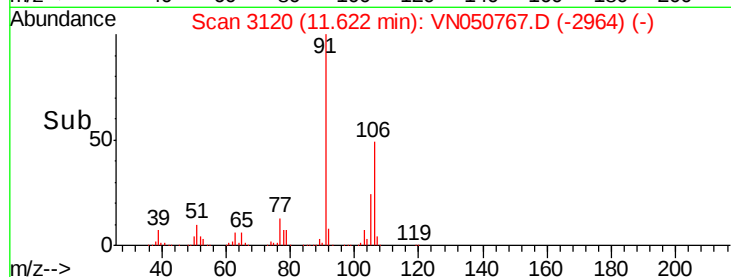
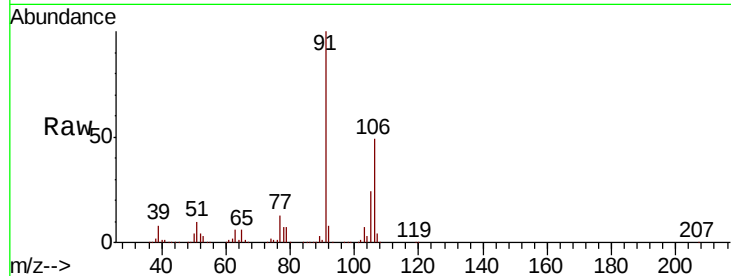
91 201.4 162.5 243.7

Manual Integrations

APPROVED

MMDadoda

8/21/2018 2:13:04 PM



#68

o-Xylene

Concen: 20.36 ug/l

RT: 11.95 min Scan# 3222

Delta R.T. 0.00 min

Lab File: VN050767.D

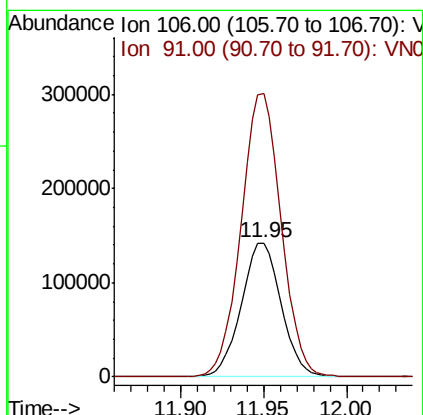
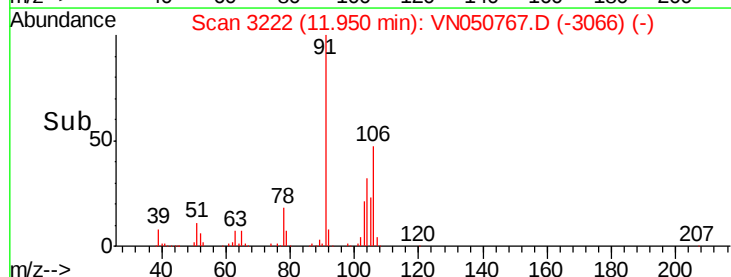
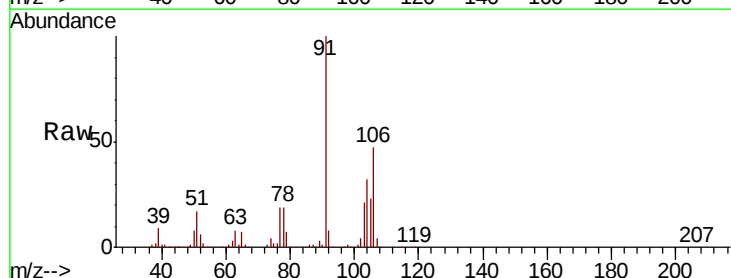
Acq: 20 Aug 2018 12:08

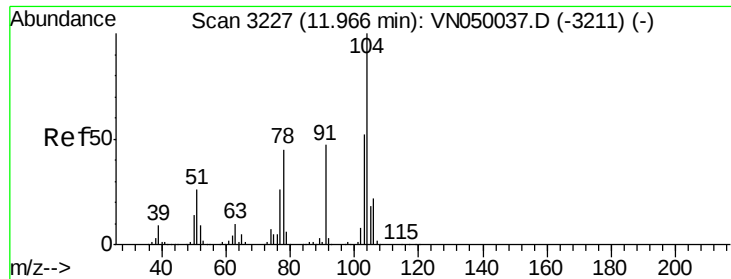
Tgt Ion:106 Resp: 237746

Ion Ratio Lower Upper

106 100

91 212.4 106.8 320.4





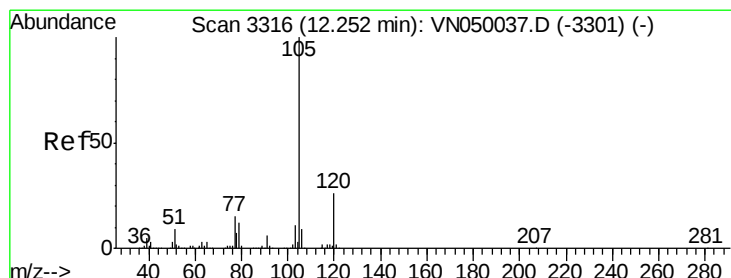
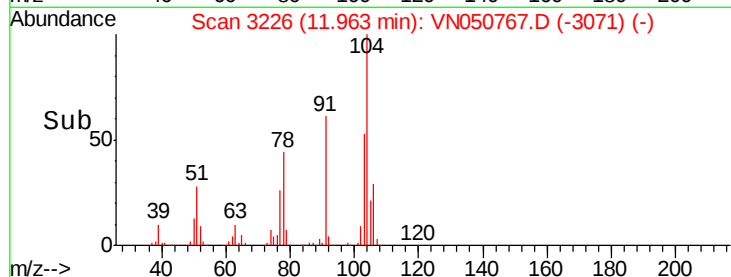
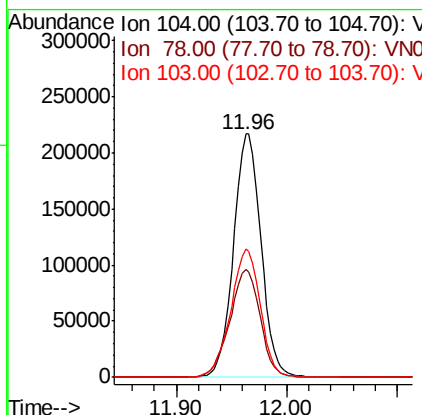
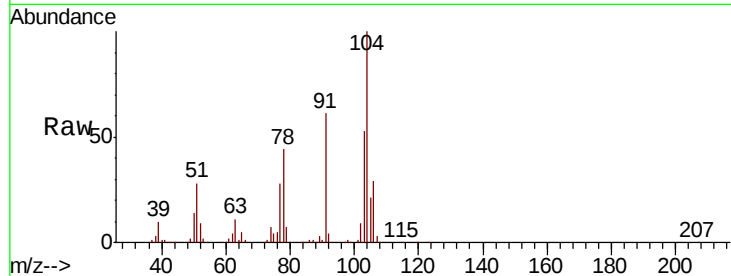
#69
Stvrene
Concen: 20.09 ug/l
RT: 11.96 min Scan# 3226
Delta R.T. -0.00 min
Lab File: VN050767.D
Acq: 20 Aug 2018 12:08

Instrument :
MSVOA_N
ClientSampleId :
VN0820WBSD01

Tot Ion	Ratio	Resp	Lower	Upper
104	100	375958		
78	48.8		39.3	58.9
103	56.6		44.5	66.7

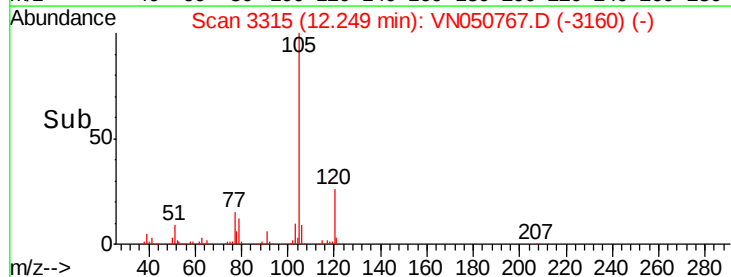
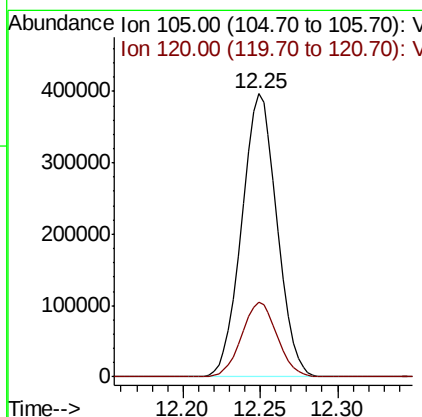
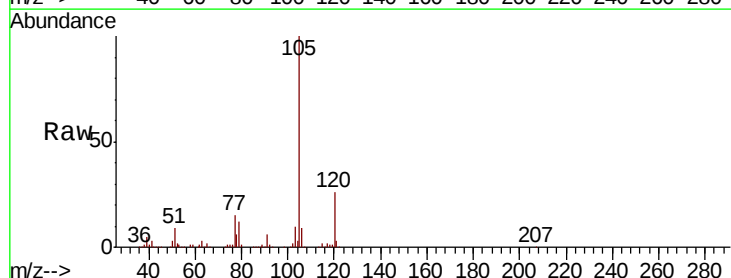
Manual Integrations
APPROVED

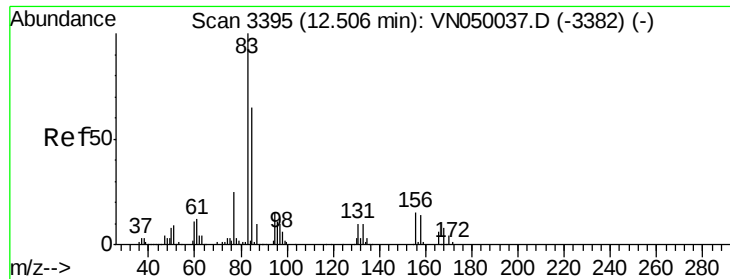
MMDadoda
8/21/2018 2:13:04 PM



#70
Isopropylbenzene
Concen: 20.26 ug/l
RT: 12.25 min Scan# 3315
Delta R.T. -0.00 min
Lab File: VN050767.D
Acq: 20 Aug 2018 12:08

Tgt Ion	Ratio	Resp	Lower	Upper
105	100	630074		
120	26.5		18.9	35.1





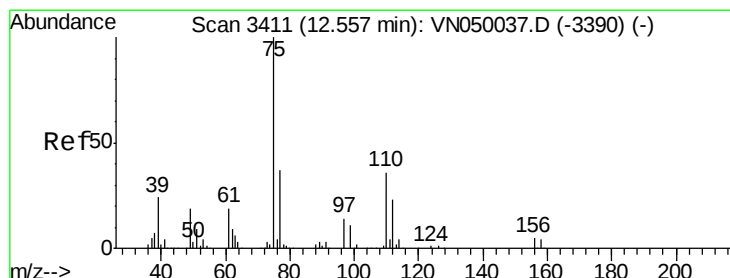
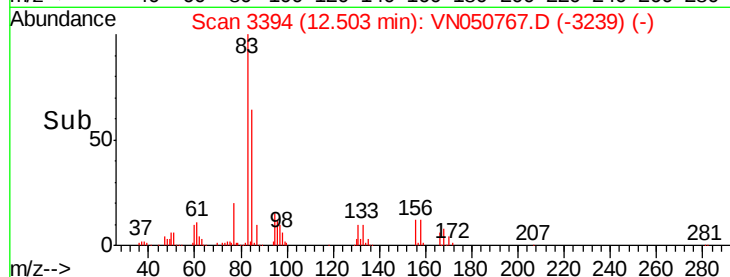
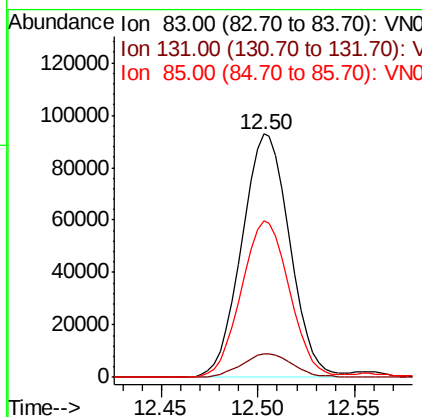
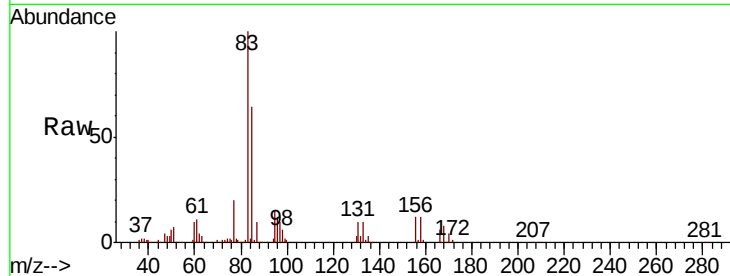
#71
 1,1,2,2-Tetrachloroethane
 Concen: 18.75 ug/l
 RT: 12.50 min Scan# 3394
 Delta R.T. -0.00 min
 Lab File: VN050767.D
 Acq: 20 Aug 2018 12:08

Instrument :
 MSVOA_N
 ClientSampleId :
 VN0820WBSD01

Tot Ion	83	Resp	160071
Ion Ratio	100	Lower	Upper
83	100		
131	10.3	5.2	15.6
85	64.7	31.7	95.1

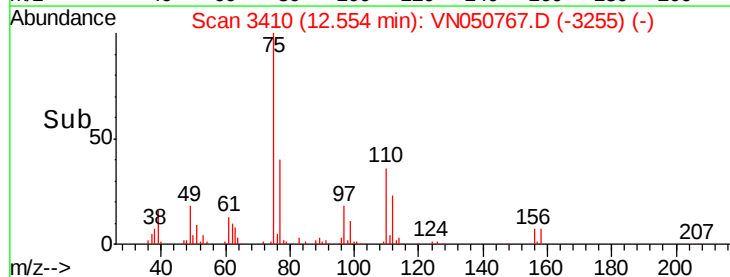
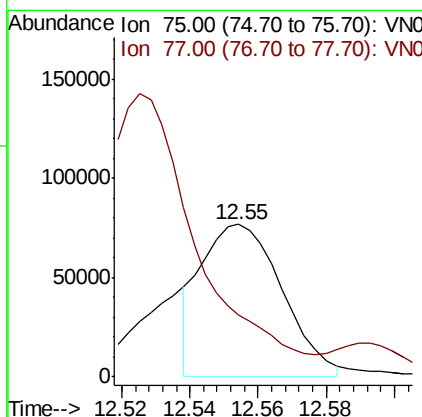
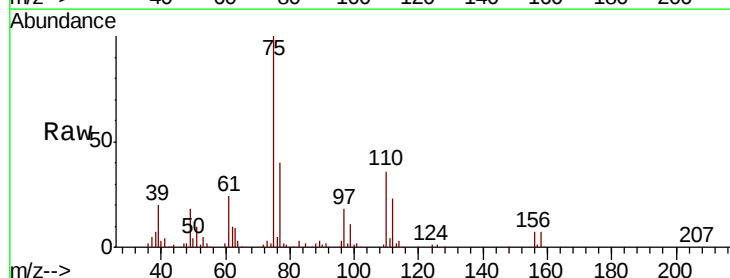
Manual Integrations
 APPROVED

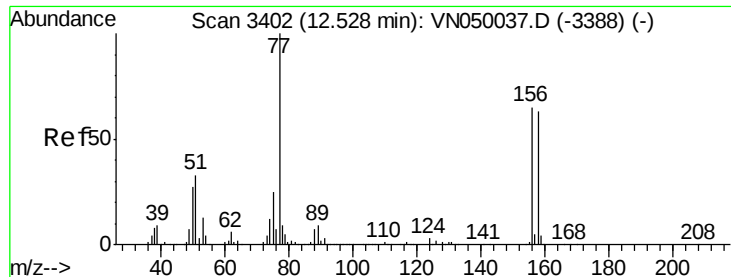
MMDadoda
 8/21/2018 2:13:04 PM



#72
 1,2,3-Trichloropropane
 Concen: 17.35 ug/l m
 RT: 12.55 min Scan# 3410
 Delta R.T. -0.00 min
 Lab File: VN050767.D
 Acq: 20 Aug 2018 12:08

Tgt Ion	75	Resp	126512
Ion Ratio	100	Lower	Upper
75	100		
77	229.5	0.0	454.4





#73

Bromobenzene

Concen: 19.32 ug/l

RT: 12.53 min Scan# 3401

Delta R.T. -0.00 min

Lab File: VN050767.D

Acq: 20 Aug 2018 12:08

Instrument :

MSVOA_N

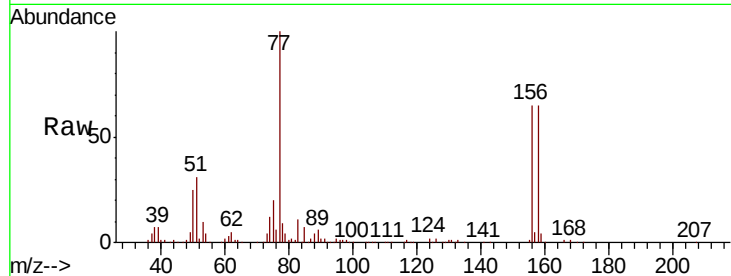
ClientSampleId :

VN0820WBSD01

Tot Ion:	156	Resp:	160064
Ion Ratio	Lower	Upper	
156	100		
77	181.4	0.0	359.8
158	98.8	0.0	192.8

Manual Integrations
APPROVED

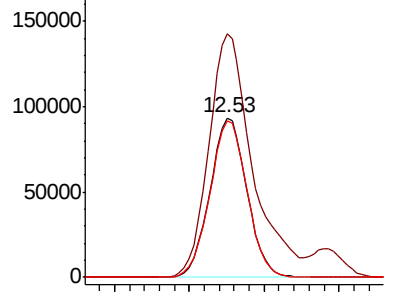
MMDadoda
8/21/2018 2:13:04 PM



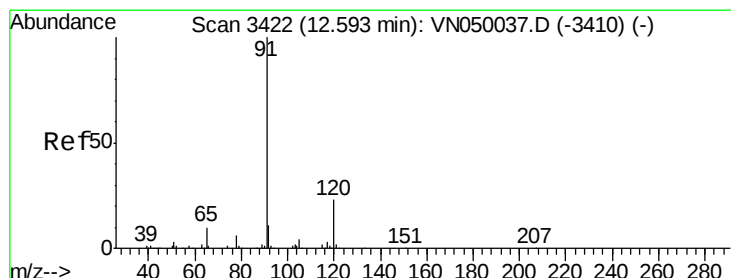
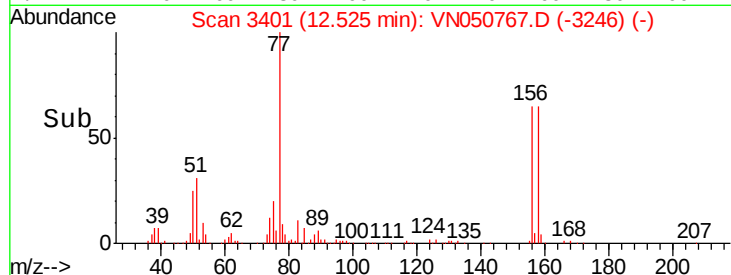
Abundance Ion 156.00 (155.70 to 156.70): V

Ion 77.00 (76.70 to 77.70): VN0

Ion 158.00 (157.70 to 158.70): V



Time-->



#74

n-propylbenzene

Concen: 19.48 ug/l

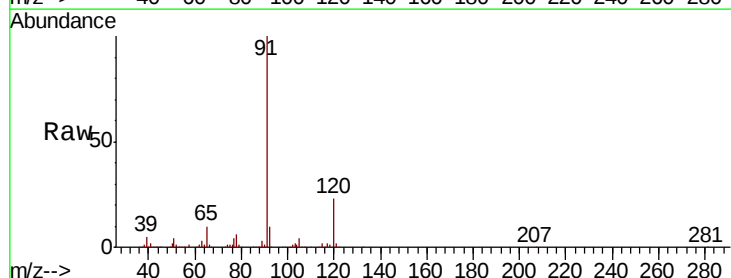
RT: 12.59 min Scan# 3422

Delta R.T. 0.00 min

Lab File: VN050767.D

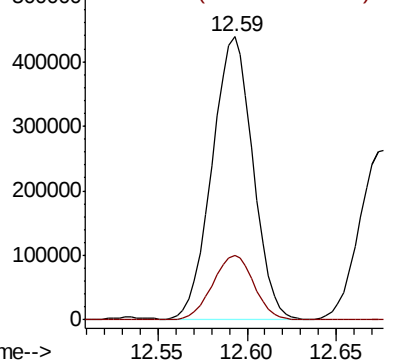
Acq: 20 Aug 2018 12:08

Tgt Ion:	91	Resp:	705523
Ion Ratio	Lower	Upper	
91	100		
120	22.9	0.0	46.4

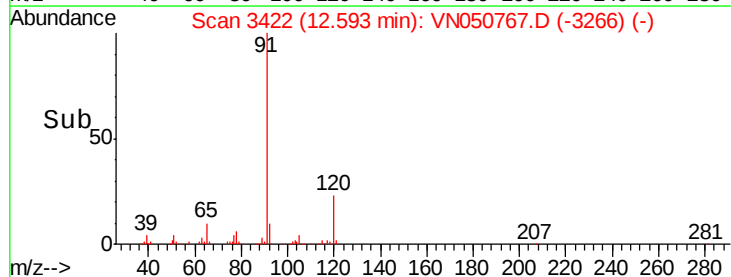


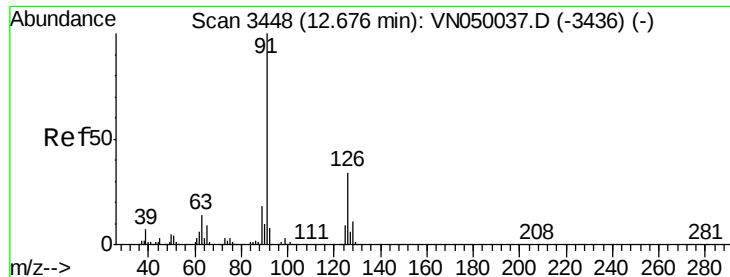
Abundance Ion 91.00 (90.70 to 91.70): VN0

Ion 120.00 (119.70 to 120.70): V



Time-->





#75

2-Chlorotoluene

Concen: 20.21 ug/l

RT: 12.68 min Scan# 3448

Delta R.T. 0.00 min

Lab File: VN050767.D

Acq: 20 Aug 2018 12:08

Instrument :

MSVOA_N

ClientSampled :

VN0820WBSD01

Tot Ion: 91 Resp: 439606

Ion Ratio Lower Upper

91 100

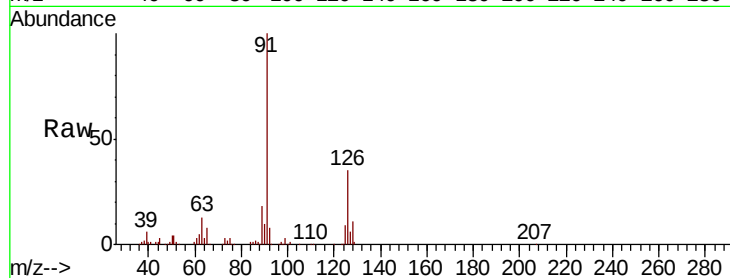
126 35.5 0.0 68.6

Manual Integrations

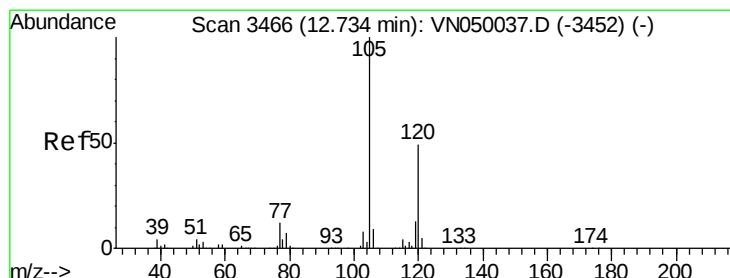
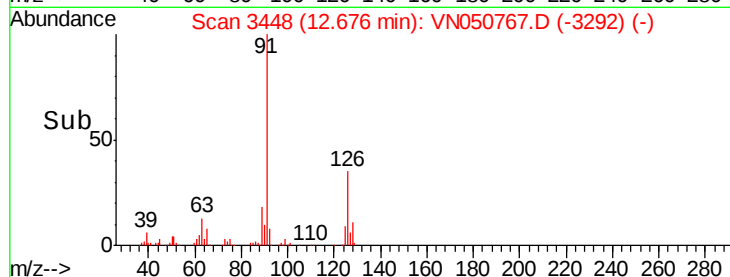
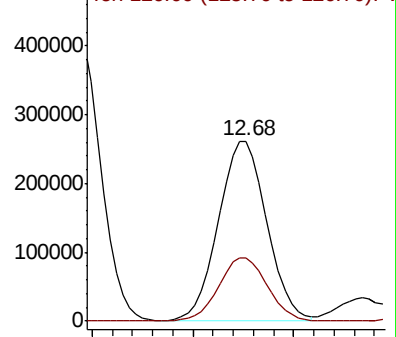
APPROVED

MMDadoda

8/21/2018 2:13:04 PM



Abundance Ion 91.00 (90.70 to 91.70): VN050037.D (-3436) (-)



#76

1,3,5-Trimethylbenzene

Concen: 20.44 ug/l

RT: 12.73 min Scan# 3466

Delta R.T. 0.00 min

Lab File: VN050767.D

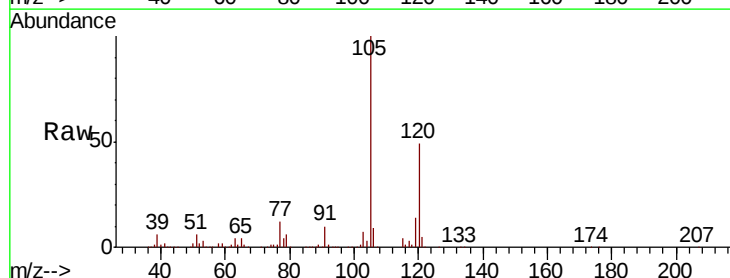
Acq: 20 Aug 2018 12:08

Tgt Ion: 105 Resp: 522091

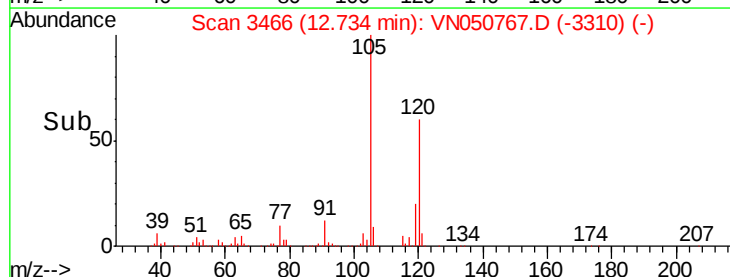
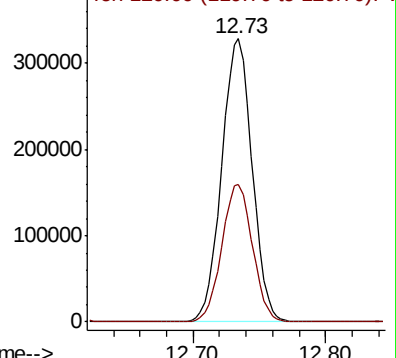
Ion Ratio Lower Upper

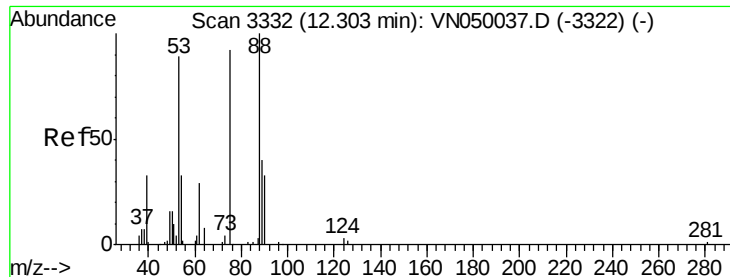
105 100

120 49.1 0.0 98.0



Abundance Ion 105.00 (104.70 to 105.70): VN050037.D (-3452) (-)





#77

t-1,4-Dichloro-2-butene

Concen: 14.76 ug/l

RT: 12.30 min Scan# 3331

Delta R.T. -0.00 min

Lab File: VN050767.D

Acq: 20 Aug 2018 12:08

Instrument :

MSVOA_N

ClientSampleId :

VN0820WBSD01

Tot Ion: 75 Resp: 35176

Ion Ratio Lower Upper

75 100

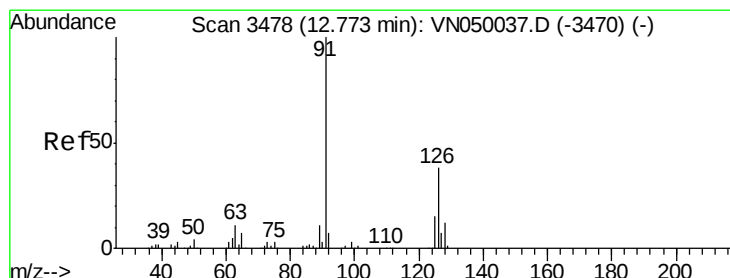
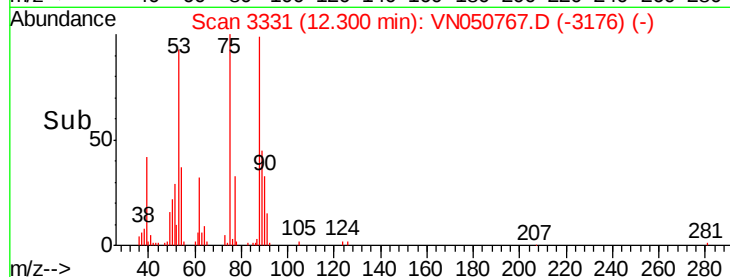
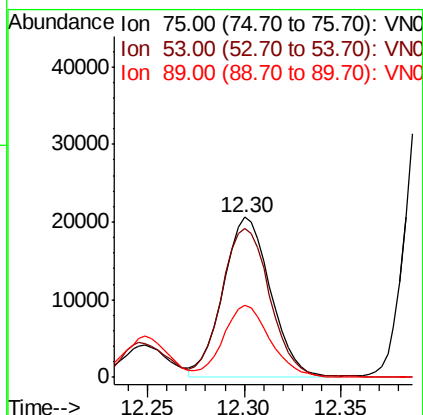
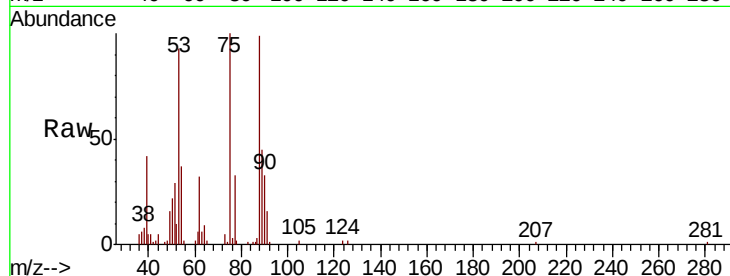
53 91.5 44.6 134.0

89 45.1 20.7 62.1

Manual Integrations
APPROVED

MMDadoda

8/21/2018 2:13:04 PM



#78

4-Chlorotoluene

Concen: 19.70 ug/l

RT: 12.77 min Scan# 3478

Delta R.T. 0.00 min

Lab File: VN050767.D

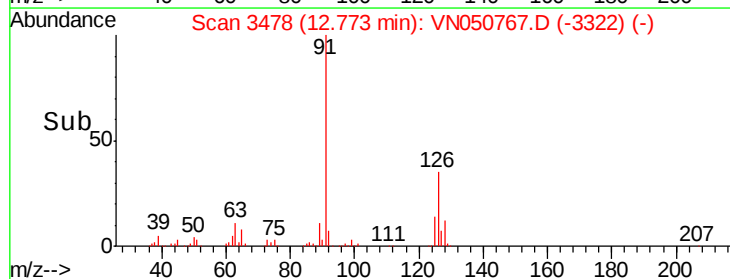
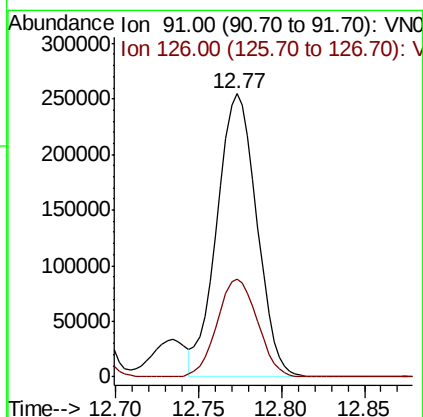
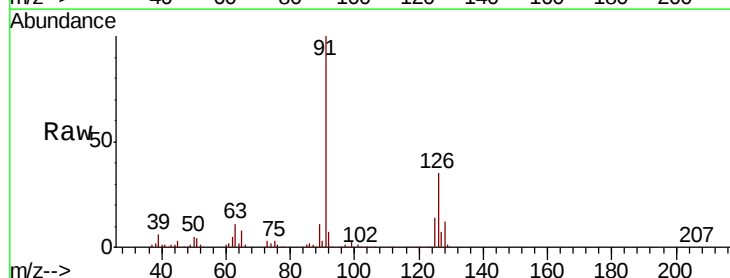
Acq: 20 Aug 2018 12:08

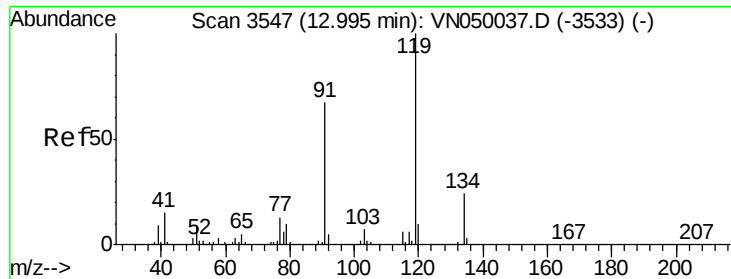
Tgt Ion: 91 Resp: 424527

Ion Ratio Lower Upper

91 100

126 35.0 0.0 68.4





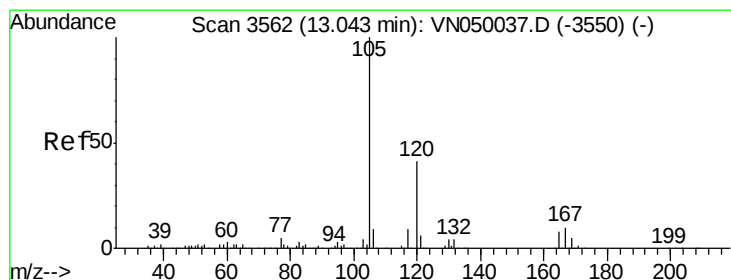
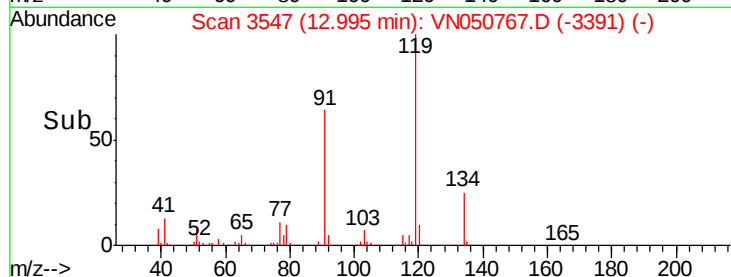
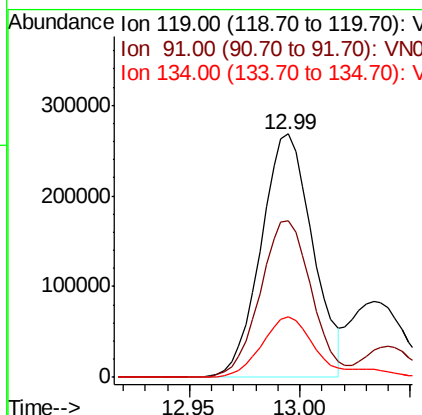
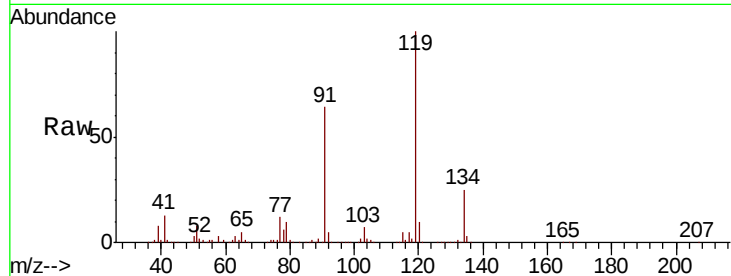
#79
tert-butylbenzene
Concen: 19.97 ug/l
RT: 12.99 min Scan# 3547
Delta R.T. 0.00 min
Lab File: VN050767.D
Acq: 20 Aug 2018 12:08

Instrument :
MSVOA_N
ClientSampled :
VN0820WBSD01

Tot Ion	Ratio	Lower	Upper
119	100		
91	63.5	0.0	126.8
134	24.6	0.0	47.4

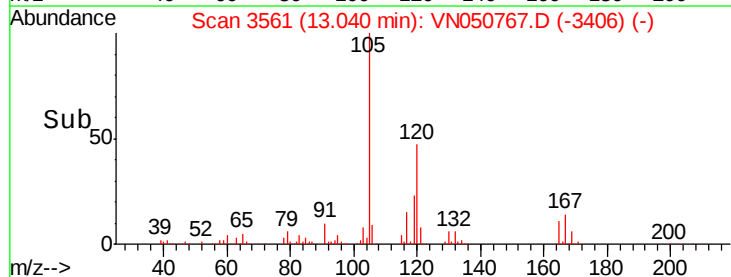
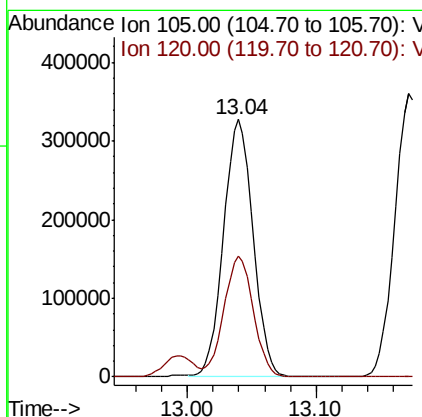
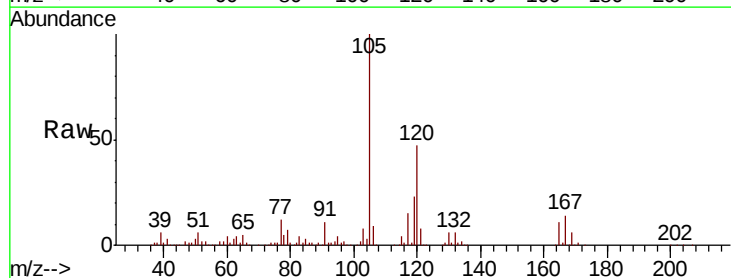
Manual Integrations
APPROVED

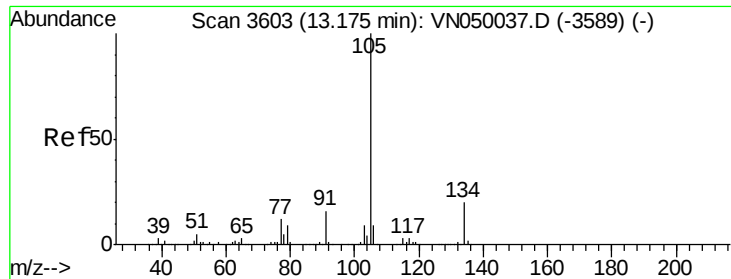
MMDadoda
8/21/2018 2:13:04 PM



#80
1,2,4-Trimethylbenzene
Concen: 20.08 ug/l
RT: 13.04 min Scan# 3561
Delta R.T. -0.00 min
Lab File: VN050767.D
Acq: 20 Aug 2018 12:08

Tgt Ion	Ratio	Lower	Upper
105	100		
120	46.8	0.0	90.6





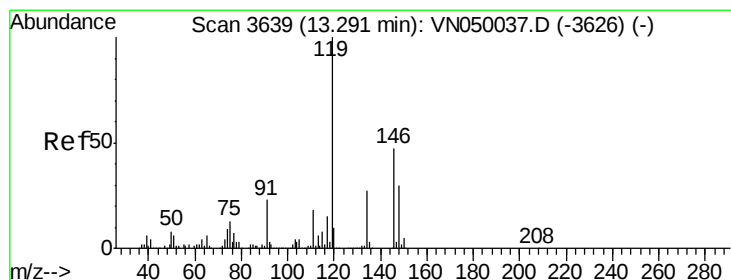
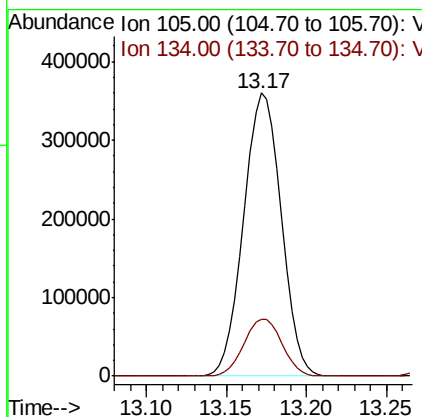
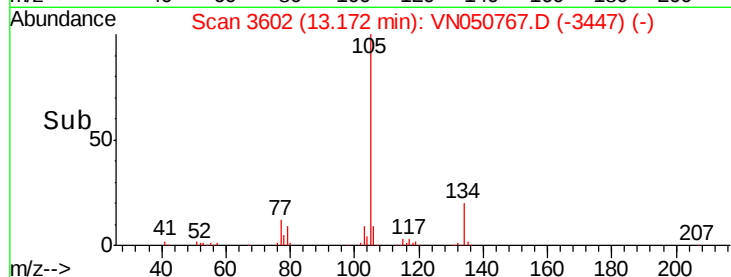
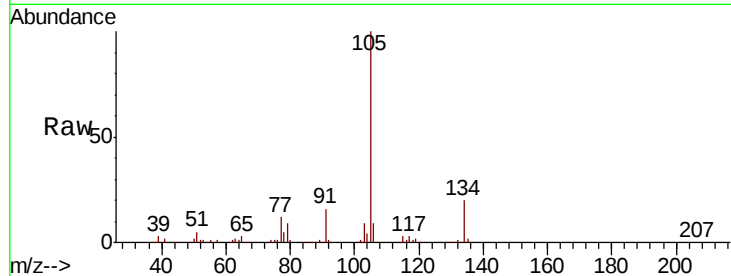
#81
 sec-Butylbenzene
 Concen: 19.47 ug/l
 RT: 13.17 min Scan# 3602
 Delta R.T. -0.00 min
 Lab File: VN050767.D
 Acq: 20 Aug 2018 12:08

Instrument :
 MSVOA_N
 ClientSampleId :
 VN0820WBSD01

Tot Ion	Ratio	Lower	Upper
105	100		
134	20.5	0.0	40.6

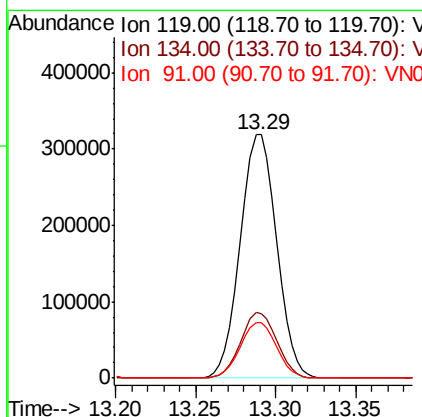
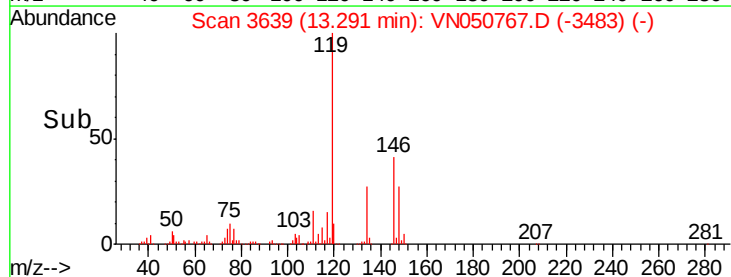
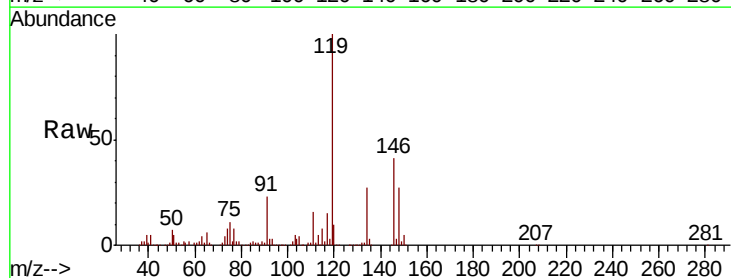
Manual Integrations
 APPROVED

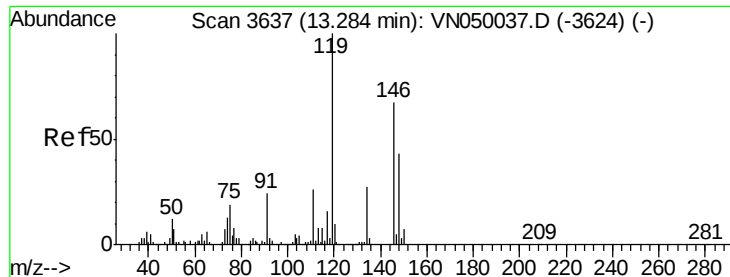
MMDadoda
 8/21/2018 2:13:04 PM



#82
 p-Isopropyltoluene
 Concen: 19.56 ug/l
 RT: 13.29 min Scan# 3639
 Delta R.T. 0.00 min
 Lab File: VN050767.D
 Acq: 20 Aug 2018 12:08

Tgt Ion	Ratio	Lower	Upper
119	100		
134	26.7	0.0	52.2
91	22.9	0.0	45.6





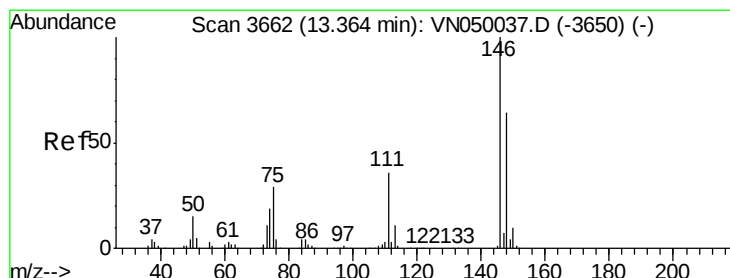
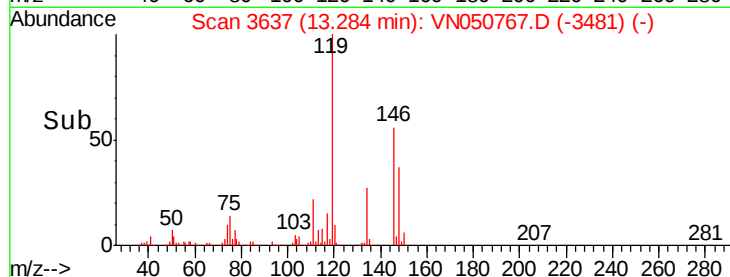
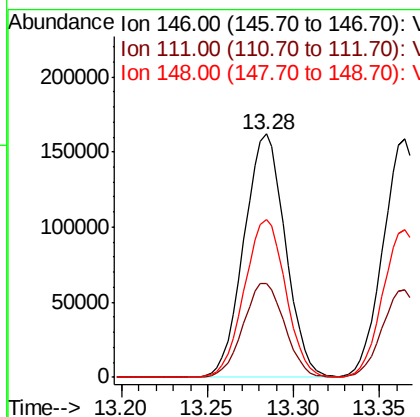
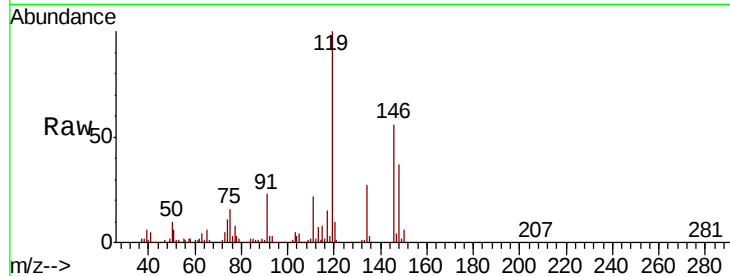
#83
1,3-Dichlorobenzene
Concen: 18.79 ug/l
RT: 13.28 min Scan# 3637
Delta R.T. 0.00 min
Lab File: VN050767.D
Acq: 20 Aug 2018 12:08

Instrument :
MSVOA_N
ClientSampleId :
VN0820WBSD01

Tot Ion	Ratio	Lower	Upper
146	100		
111	38.5	19.1	57.1
148	64.8	31.9	95.9

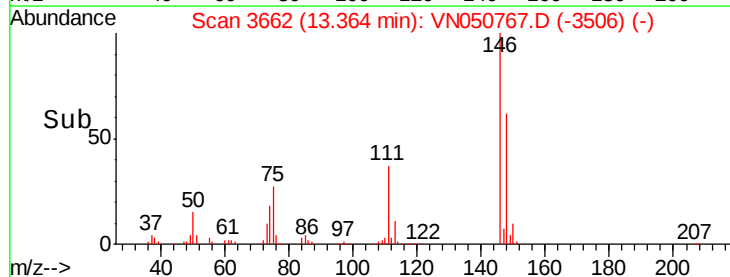
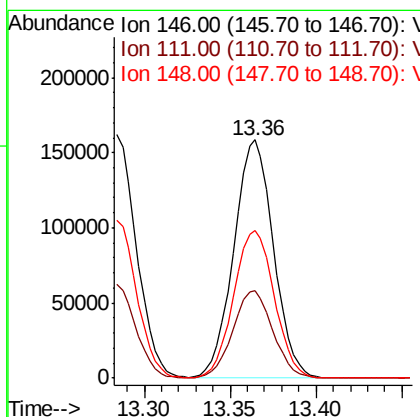
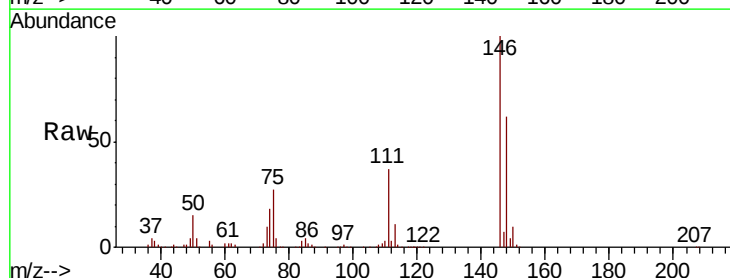
Manual Integrations
APPROVED

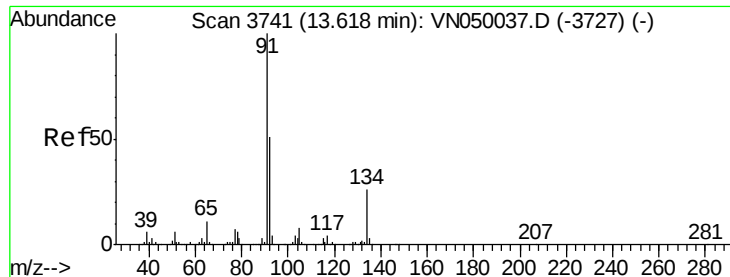
MMDadoda
8/21/2018 2:13:04 PM



#84
1,4-Dichlorobenzene
Concen: 18.67 ug/l
RT: 13.36 min Scan# 3662
Delta R.T. 0.00 min
Lab File: VN050767.D
Acq: 20 Aug 2018 12:08

Tgt Ion	Ratio	Lower	Upper
146	100		
111	37.0	17.9	53.8
148	63.7	32.4	97.0





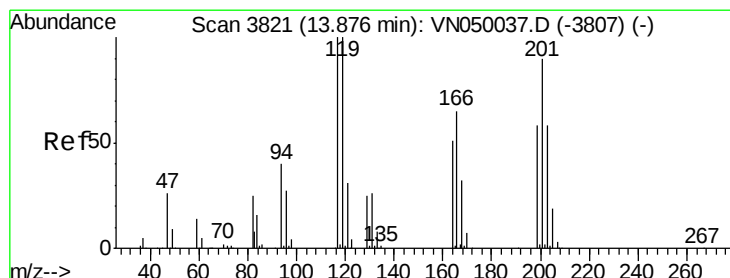
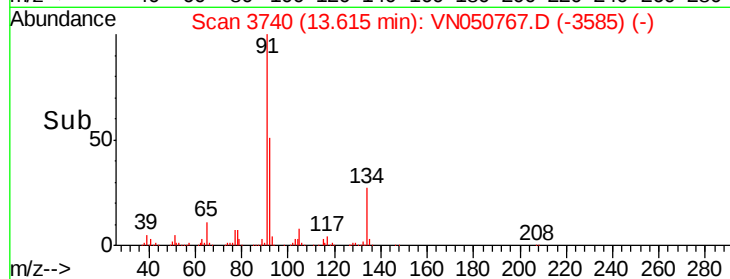
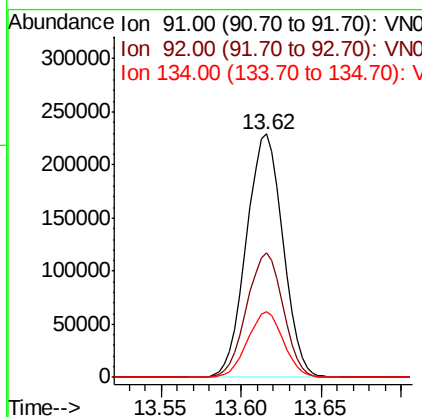
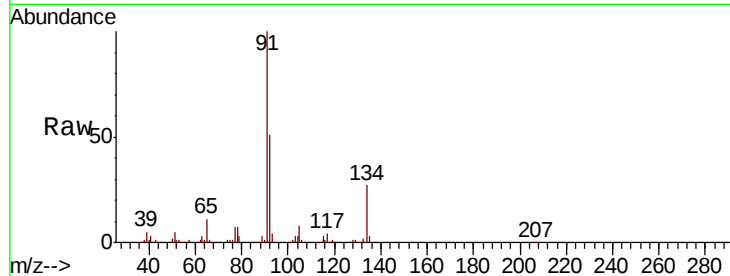
#85
n-Butylbenzene
Concen: 17.46 ug/l
RT: 13.62 min Scan# 3740
Delta R.T. -0.00 min
Lab File: VN050767.D
Acq: 20 Aug 2018 12:08

Instrument :
MSVOA_N
ClientSampleId :
VN0820WBSD01

Tot Ion	Ratio	Resp	Lower	Upper
91	100			
92	50.9	0.0	102.8	
134	26.3	0.0	51.0	

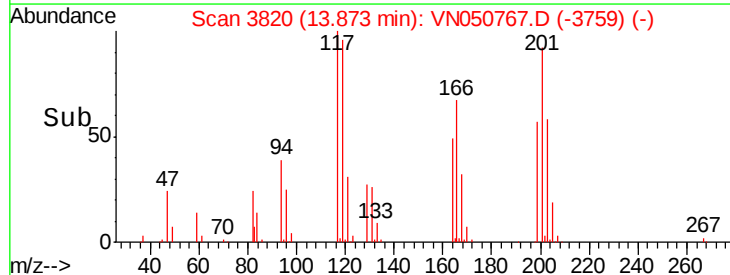
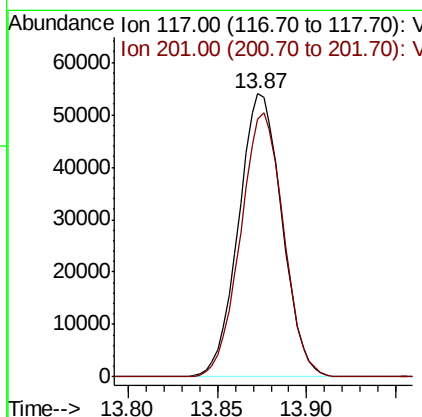
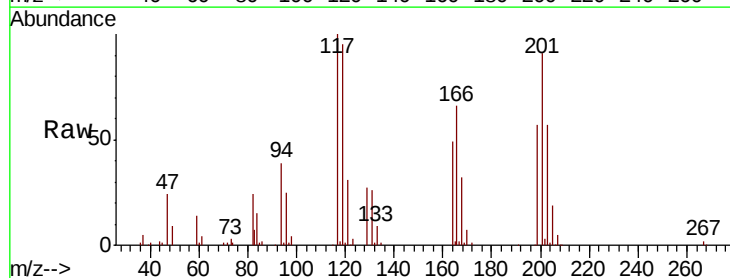
Manual Integrations
APPROVED

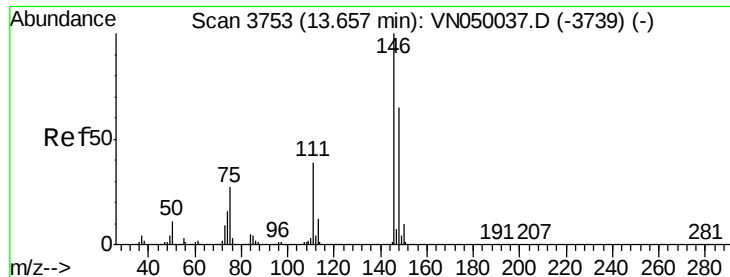
MMDadoda
8/21/2018 2:13:04 PM



#86
Hexachloroethane
Concen: 18.14 ug/l
RT: 13.87 min Scan# 3820
Delta R.T. -0.00 min
Lab File: VN050767.D
Acq: 20 Aug 2018 12:08

Tgt Ion	Ratio	Resp	Lower	Upper
117	100			
201	92.2	46.6	139.7	





#87

1,2-Dichlorobenzene

Concen: 19.26 ug/l

RT: 13.65 min Scan# 3752

Delta R.T. -0.00 min

Lab File: VN050767.D

Acq: 20 Aug 2018 12:08

Instrument :

MSVOA_N

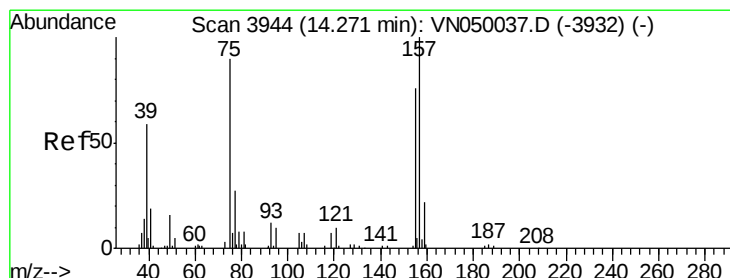
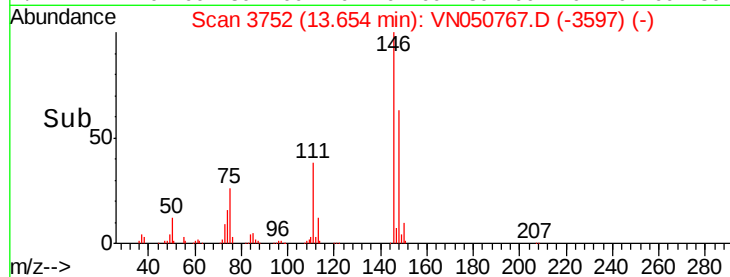
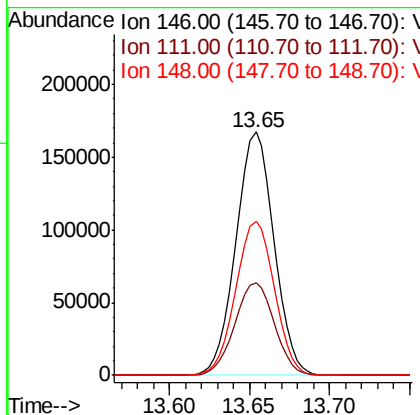
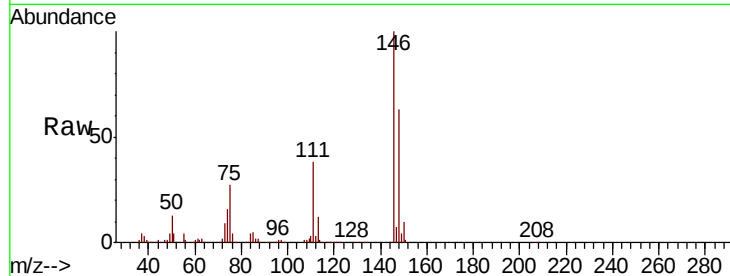
ClientSampleId :

VN0820WBSD01

Tot Ion:	146	Resp:	271530
Ion Ratio		Lower	Upper
146	100		
111	39.5	19.8	59.3
148	64.1	31.8	95.3

Manual Integrations
APPROVED

MMDadoda
8/21/2018 2:13:04 PM



#88

1,2-Dibromo-3-Chloropropane

Concen: 15.44 ug/l

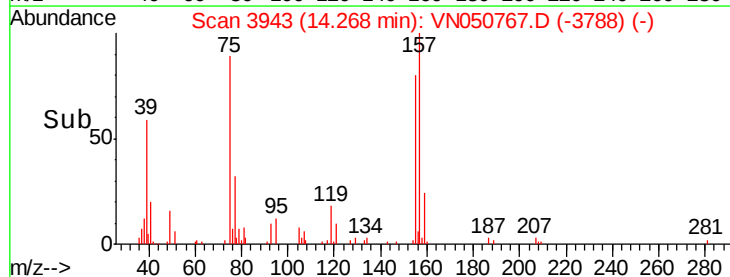
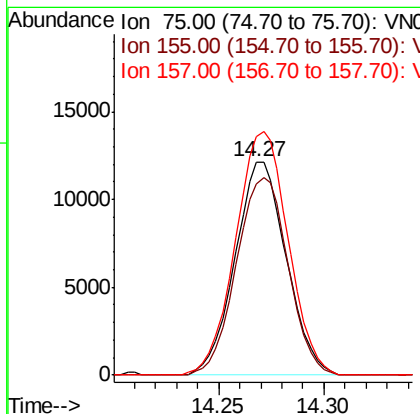
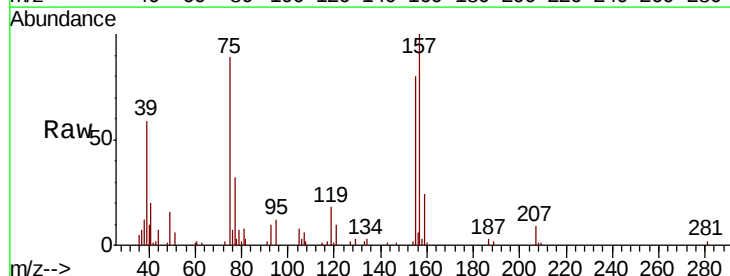
RT: 14.27 min Scan# 3943

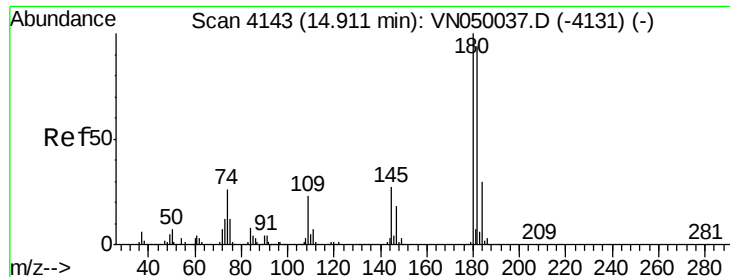
Delta R.T. -0.00 min

Lab File: VN050767.D

Acq: 20 Aug 2018 12:08

Tgt Ion:	75	Resp:	20533
Ion Ratio		Lower	Upper
75	100		
155	93.1	73.0	109.6
157	117.1	94.9	142.3





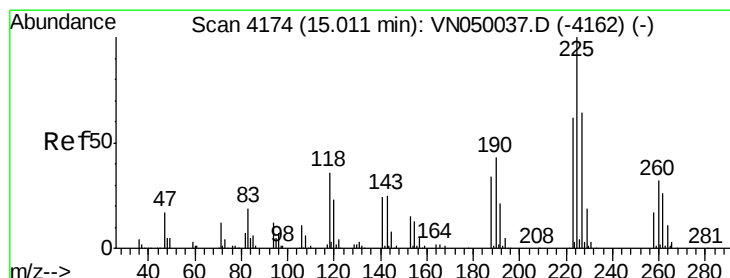
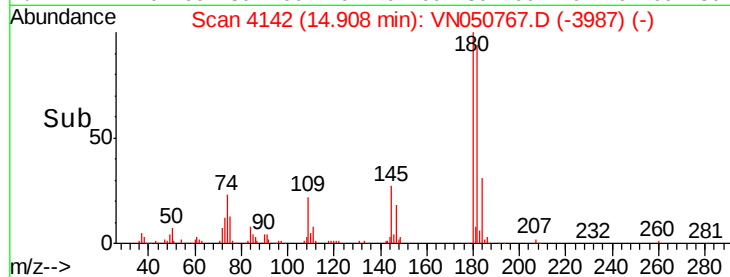
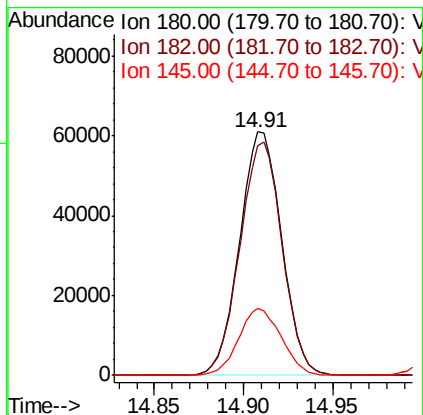
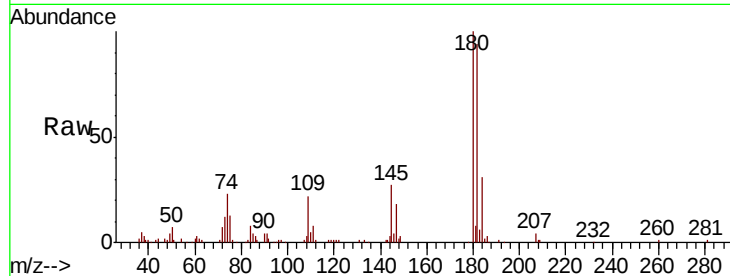
#89
 1,2,4-Trichlorobenzene
 Concen: 14.86 ug/l
 RT: 14.91 min Scan# 4142
 Delta R.T. -0.00 min
 Lab File: VN050767.D
 Acq: 20 Aug 2018 12:08

Instrument :
 MSVOA_N
 ClientSampled :
 VN0820WBSD01

Tot Ion	Ratio	Resp	Lower	Upper
180	100			
182	96.4	76.7	115.1	
145	27.7	23.4	35.0	

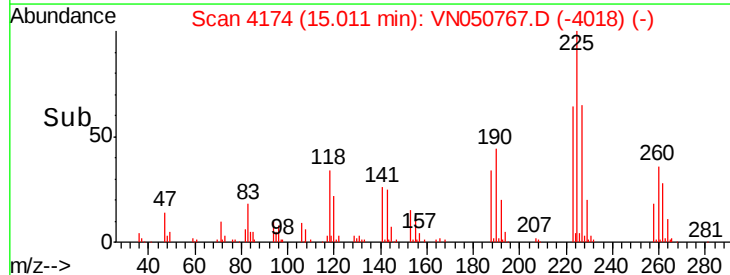
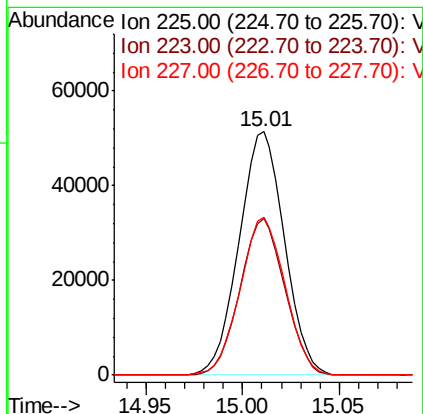
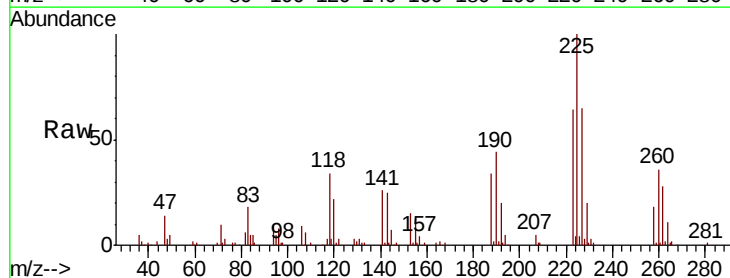
Manual Integrations
 APPROVED

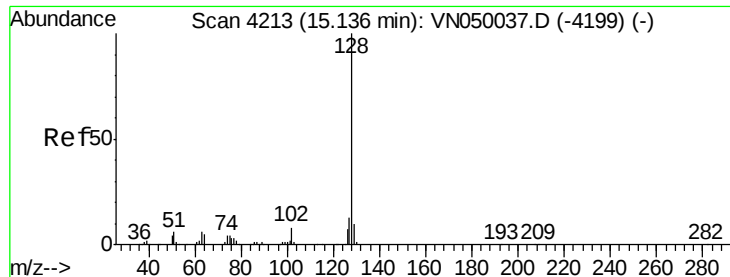
MMDadoda
 8/21/2018 2:13:04 PM



#90
 Hexachlorobutadiene
 Concen: 18.92 ug/l
 RT: 15.01 min Scan# 4174
 Delta R.T. 0.00 min
 Lab File: VN050767.D
 Acq: 20 Aug 2018 12:08

Tgt Ion	Ratio	Resp	Lower	Upper
225	100			
223	63.3	0.0	124.4	
227	64.3	0.0	133.0	





#91

Naphthalene

Concen: 16.58 ug/l

RT: 15.13 min Scan# 4212

Delta R.T. -0.00 min

Lab File: VN050767.D

Acq: 20 Aug 2018 12:08

Instrument :

MSVOA_N

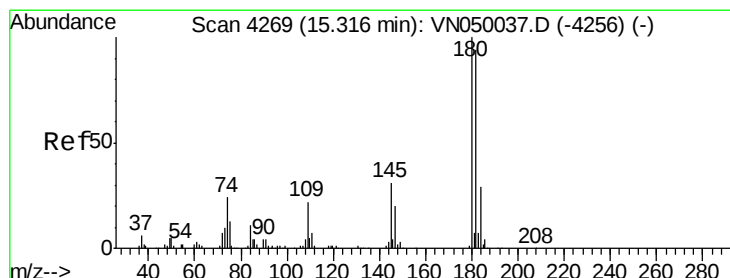
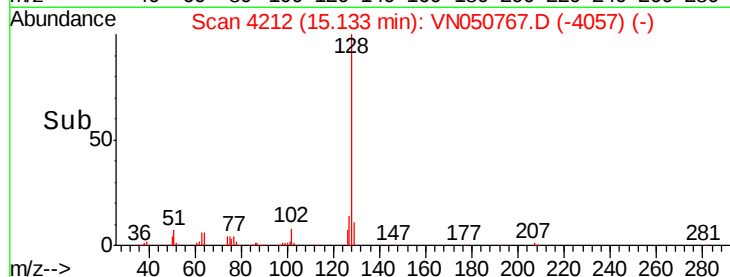
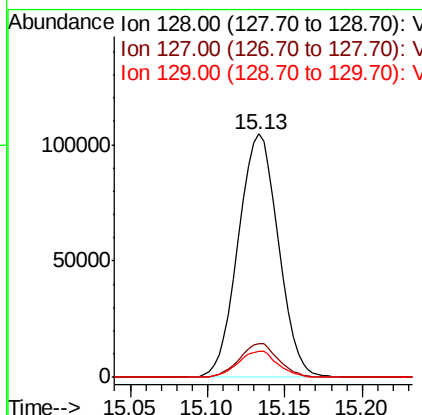
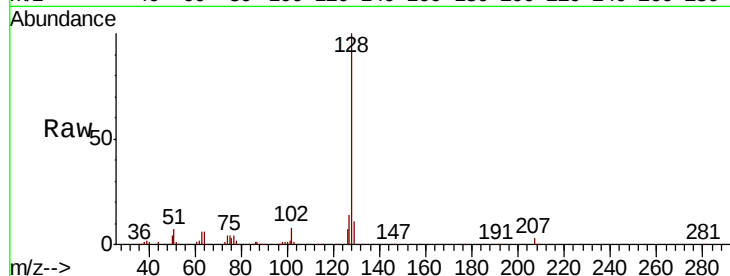
ClientSampleId :

VN0820WBSD01

Tot Ion	Ion	Ratio	Resp	Lower	Upper
128	100		188633		
127	13.5	10.2	15.4		
129	10.7	9.0	13.4		

Manual Integrations
APPROVED

MMDadoda
8/21/2018 2:13:04 PM



#92

1,2,3-Trichlorobenzene

Concen: 15.19 ug/l

RT: 15.32 min Scan# 4269

Delta R.T. 0.00 min

Lab File: VN050767.D

Acq: 20 Aug 2018 12:08

Tgt Ion	Ion	Ratio	Resp	Lower	Upper
180	100		104046		
182	93.4	0.0	188.8		
145	29.7	0.0	60.8		

