

Data Path : Z:\VOASRV\HPCHEM1\MSVOA N\DATA\VN091418\
 Data File : VN051202.D
 Acq On : 14 Sep 2018 20:55
 Operator : MD\SY
 Sample : VN0914WBSD03
 Misc : 5.00mL/MSVOA N/WATER
 ALS Vial : 33 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 VN0914WBSD03

Manual Integrations
 APPROVED

MMDadoda
 9/17/2018 1:26:25 PM

Quant Time: Sep 15 01:17:57 2018
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_N\METHODS\82N091018W.M
 Quant Title : SW846 8260
 QLast Update : Tue Sep 11 02:27:09 2018
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	7.67	168	559760	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	8.59	114	810453	50.00	ug/l	0.00
63) Chlorobenzene-d5	11.41	117	692184	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.34	152	316362	50.00	ug/l	0.00

System Monitoring Compounds

33) 1,2-Dichloroethane-d4	8.03	65	312757	50.21	ug/l	0.00
Spiked Amount	50.000		Recovery	=	100.42%	
35) Dibromofluoromethane	7.59	113	307542	50.50	ug/l	0.00
Spiked Amount	50.000		Recovery	=	101.00%	
50) Toluene-d8	10.09	98	1094366	47.36	ug/l	0.00
Spiked Amount	50.000		Recovery	=	94.72%	
62) 4-Bromofluorobenzene	12.40	95	330312	43.21	ug/l	0.00
Spiked Amount	50.000		Recovery	=	86.42%	

Target Compounds

						Qvalue
2) Dichlorodifluoromethane	1.85	85	92071	17.06	ug/l	99
3) Chloromethane	2.06	50	123119	17.31	ug/l	99
4) Vinyl Chloride	2.18	62	130614	17.63	ug/l	100
5) Bromomethane	2.57	94	76416	17.64	ug/l	97
6) Chloroethane	2.70	64	80707	17.65	ug/l	97
7) Trichlorofluoromethane	3.02	101	190064	19.36	ug/l	99
8) Diethyl Ether	3.42	74	65856	18.24	ug/l	99
9) 1,1,2-Trichlorotrifluoroet	3.76	101	120920	19.11	ug/l	100
10) Methyl Iodide	3.95	142	87514	18.75	ug/l	100
11) Tert butyl alcohol	4.80	59	33055	69.47	ug/l #	73
12) 1,1-Dichloroethene	3.74	96	107975	18.08	ug/l	98
13) Acrolein	3.61	56	25085	63.28	ug/l	96
14) Allyl chloride	4.33	41	157238	17.28	ug/l	97
15) Acrylonitrile	4.99	53	176056	83.51	ug/l	99
16) Acetone	3.82	43	119447	73.43	ug/l	98
17) Carbon Disulfide	4.05	76	299575	17.10	ug/l	100
18) Methyl Acetate	4.33	43	94121	18.87	ug/l	100
19) Methyl tert-butyl Ether	5.05	73	280593	17.78	ug/l	99
20) Methylene Chloride	4.55	84	124803	18.14	ug/l	98
21) trans-1,2-Dichloroethene	5.05	96	115484	17.83	ug/l	97
22) Diisopropyl ether	5.95	45	359057	19.88	ug/l	99
23) Vinyl Acetate	5.90	43	1072094	87.73	ug/l	100
24) 1,1-Dichloroethane	5.85	63	224597	19.60	ug/l	99
25) 2-Butanone	6.84	43	181831	74.24	ug/l	99
26) 2,2-Dichloropropane	6.83	77	155161	16.55	ug/l	100
27) cis-1,2-Dichloroethene	6.83	96	131492	18.51	ug/l	99
28) Bromochloromethane	7.20	49	91393	17.92	ug/l	100
29) Tetrahydrofuran	7.21	42	122625	80.18	ug/l	100
30) Chloroform	7.37	83	226958	19.91	ug/l	99
31) Cyclohexane	7.66	56	182884	17.76	ug/l	94
32) 1,1,1-Trichloroethane	7.57	97	191879	19.76	ug/l	100
36) 1,1-Dichloropropene	7.80	75	162539	18.27	ug/l	99
37) Ethyl Acetate	6.93	43	84806	16.46	ug/l	96
38) Carbon Tetrachloride	7.78	117	172139	19.66	ug/l	99

Data Path : Z:\VOASRV\HPCHEM1\MSVOA N\DATA\VN091418\
 Data File : VN051202.D
 Acq On : 14 Sep 2018 20:55
 Operator : MD\SY
 Sample : VN0914WBSD03
 Misc : 5.00mL/MSVOA N/WATER
 ALS Vial : 33 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 VN0914WBSD03

Manual Integrations
 APPROVED

MMDadoda
 9/17/2018 1:26:25 PM

Quant Time: Sep 15 01:17:57 2018
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_N\METHODS\82N091018W.M
 Quant Title : SW846 8260
 QLast Update : Tue Sep 11 02:27:09 2018
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
39) Methylcyclohexane	9.08	83	166612	16.97	ug/l	96
40) Benzene	8.04	78	504372	18.81	ug/l	100
41) Methacrylonitrile	7.18	41	44199	16.62	ug/l	94
42) 1,2-Dichloroethane	8.13	62	150504	19.26	ug/l	99
43) Isopropyl Acetate	8.17	43	161337	17.74	ug/l #	86
44) Trichloroethene	8.84	130	133514	18.21	ug/l	98
45) 1,2-Dichloropropane	9.12	63	133023	19.20	ug/l	99
46) Dibromomethane	9.21	93	75099	17.77	ug/l	98
47) Bromodichloromethane	9.40	83	169231	19.69	ug/l	98
48) Methyl methacrylate	9.20	41	71046	16.03	ug/l	97
49) 1,4-Dioxane	9.20	88	20285	291.92	ug/l	97
51) 4-Methyl-2-Pentanone	9.99	43	409015	81.34	ug/l	99
52) Toluene	10.16	92	304095	18.60	ug/l	100
53) t-1,3-Dichloropropene	10.38	75	146959	17.08	ug/l	98
54) cis-1,3-Dichloropropene	9.84	75	181885	18.03	ug/l	100
55) 1,1,2-Trichloroethane	10.56	97	109324	18.41	ug/l	97
56) Ethyl methacrylate	10.43	69	116997	16.41	ug/l	99
57) 1,3-Dichloropropane	10.71	76	180307	18.31	ug/l	99
58) 2-Chloroethyl Vinyl ether	9.70	63	227022	78.86	ug/l	100
59) 2-Hexanone	10.75	43	242901	71.23	ug/l	98
60) Dibromochloromethane	10.90	129	123535	18.45	ug/l	99
61) 1,2-Dibromoethane	11.01	107	102629	17.68	ug/l	98
64) Tetrachloroethene	10.63	164	122223	19.35	ug/l	99
65) Chlorobenzene	11.43	112	326621	18.72	ug/l	99
66) 1,1,1,2-Tetrachloroethane	11.51	131	128307	20.42	ug/l	100
67) Ethyl Benzene	11.51	91	525408	18.59	ug/l	99
68) m/p-Xylenes	11.62	106	413960	38.13	ug/l	100
69) o-Xylene	11.95	106	198479	18.88	ug/l	100
70) Styrene	11.96	104	312749	19.18	ug/l	99
71) Bromoform	12.13	173	82182	18.58	ug/l #	98
73) Isopropylbenzene	12.25	105	520486	19.62	ug/l	99
74) N-amyl acetate	12.07	43	104026	15.58	ug/l	98
75) 1,1,2,2-Tetrachloroethane	12.51	83	125910	19.72	ug/l	100
76) 1,2,3-Trichloropropane	12.55	75	106601m	20.87	ug/l	
77) Bromobenzene	12.53	156	135846	19.06	ug/l	97
78) n-propylbenzene	12.59	91	562780	19.30	ug/l	100
79) 2-Chlorotoluene	12.67	91	354402	19.44	ug/l	100
80) 1,3,5-Trimethylbenzene	12.73	105	427445	19.93	ug/l	100
81) trans-1,4-Dichloro-2-buten	12.30	75	26019	15.62	ug/l	96
82) 4-Chlorotoluene	12.77	91	336929	18.62	ug/l	98
83) tert-Butylbenzene	12.99	119	370807	19.58	ug/l	98
84) 1,2,4-Trimethylbenzene	13.04	105	423681	20.09	ug/l	99
85) sec-Butylbenzene	13.17	105	475967	19.60	ug/l	100
86) p-Isopropyltoluene	13.29	119	405073	19.67	ug/l	99
87) 1,3-Dichlorobenzene	13.28	146	220478	18.24	ug/l	99
88) 1,4-Dichlorobenzene	13.36	146	211095	19.02	ug/l	98
89) n-Butylbenzene	13.62	91	271453	16.94	ug/l	98
90) Hexachloroethane	13.87	117	78242	20.51	ug/l	98
91) 1,2-Dichlorobenzene	13.65	146	218042	18.51	ug/l	99
92) 1,2-Dibromo-3-Chloropropan	14.27	75	15838	17.90	ug/l	93

Data Path : Z:\VOASRV\HPCHEM1\MSVOA N\DATA\VN091418\
Data File : VN051202.D
Acq On : 14 Sep 2018 20:55
Operator : MD\SY
Sample : VN0914WBSD03
Misc : 5.00mL/MSVOA N/WATER
ALS Vial : 33 Sample Multiplier: 1

Instrument :
MSVOA_N
ClientSampleId :
VN0914WBSD03

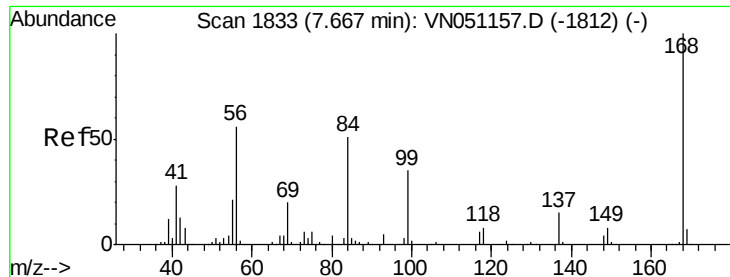
Manual Integrations
APPROVED

MMDadoda
9/17/2018 1:26:25 PM

Quant Time: Sep 15 01:17:57 2018
Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_N\METHODS\82N091018W.M
Quant Title : SW846 8260
QLast Update : Tue Sep 11 02:27:09 2018
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
93) 1,2,4-Trichlorobenzene	14.91	180	73433	15.85	ug/l	98
94) Hexachlorobutadiene	15.01	225	74213	20.58	ug/l	99
95) Naphthalene	15.13	128	125314	14.75	ug/l	99
96) 1,2,3-Trichlorobenzene	15.31	180	76343	16.16	ug/l	99

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



#1

Pentafluorobenzene

Concen: 50.00 ug/l

RT: 7.67 min Scan# 1834

Delta R.T. 0.00 min

Lab File: VN051202.D

Acq: 14 Sep 2018 20:55

Instrument :

MSVOA_N

ClientSampleID :

VN0914WBSD03

Tot Ion:168 Resp: 559760

Ion Ratio Lower Upper

168 100

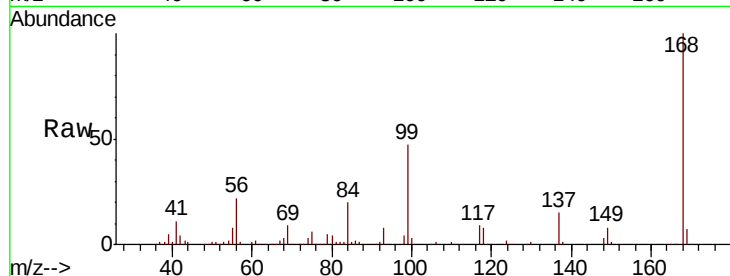
99 46.8 38.3 57.5

Manual Integrations

APPROVED

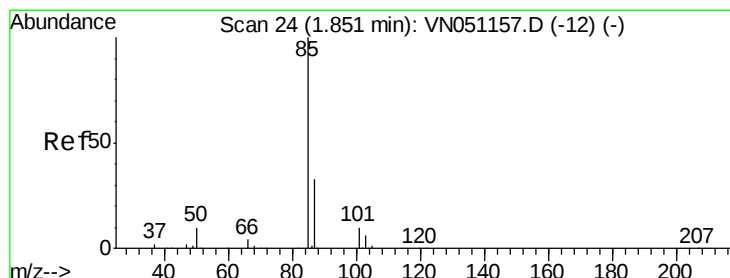
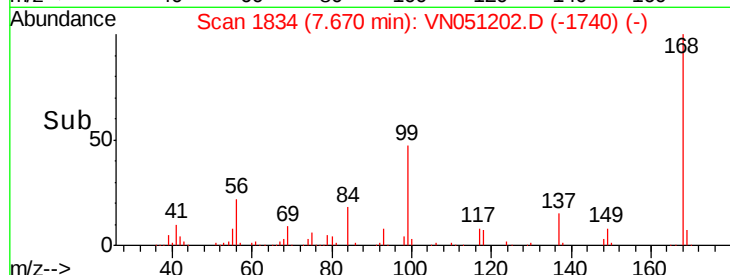
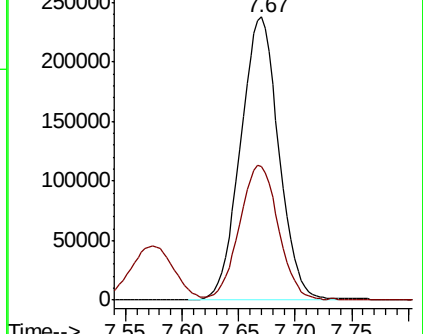
MMDadoda

9/17/2018 1:26:25 PM



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VN



#2

Dichlorodifluoromethane

Concen: 17.06 ug/l

RT: 1.85 min Scan# 25

Delta R.T. 0.00 min

Lab File: VN051202.D

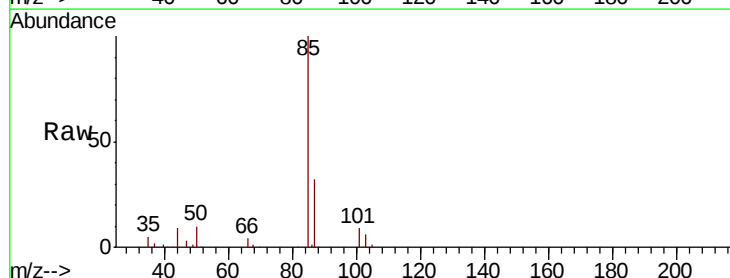
Acq: 14 Sep 2018 20:55

Tgt Ion: 85 Resp: 92071

Ion Ratio Lower Upper

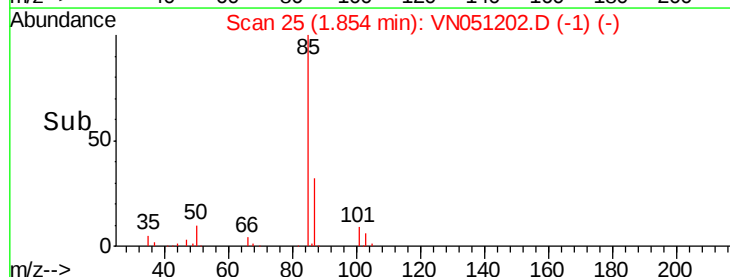
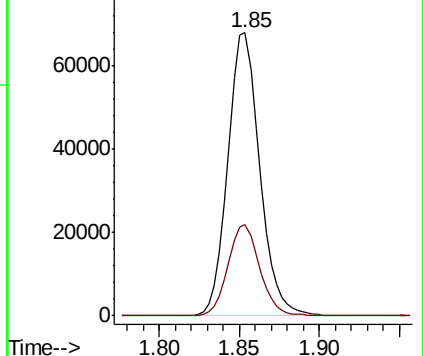
85 100

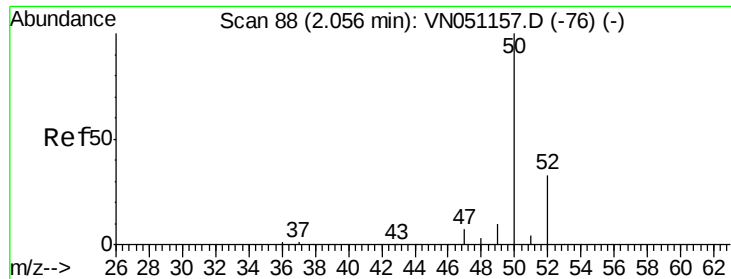
87 32.1 15.9 47.6



Abundance Ion 84.90 (84.60 to 85.60): VN

Ion 86.90 (86.60 to 87.60): VN





#3

Chloromethane

Concen: 17.31 ug/l

RT: 2.06 min Scan# 89

Delta R.T. 0.00 min

Lab File: VN051202.D

Acq: 14 Sep 2018 20:55

Instrument :

MSVOA_N

ClientSampleId :

VN0914WBSD03

Tot Ion: 50 Resp: 123119

Ion Ratio Lower Upper

50 100

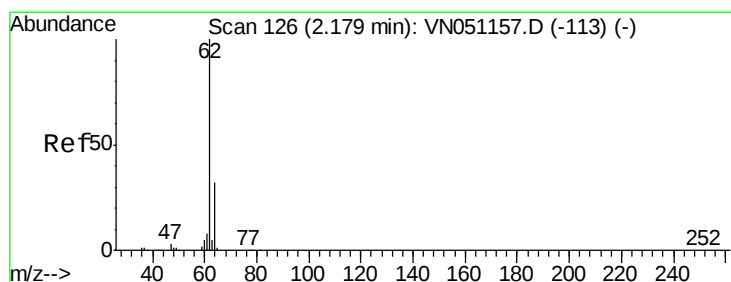
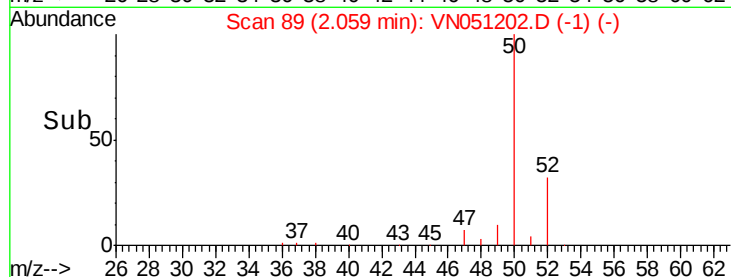
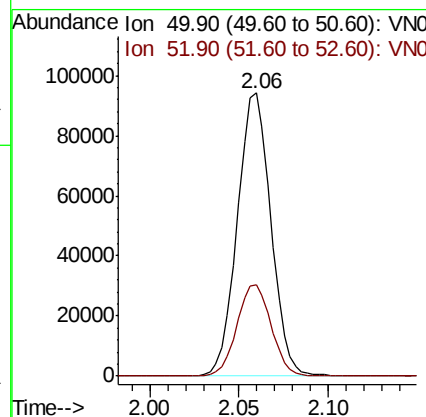
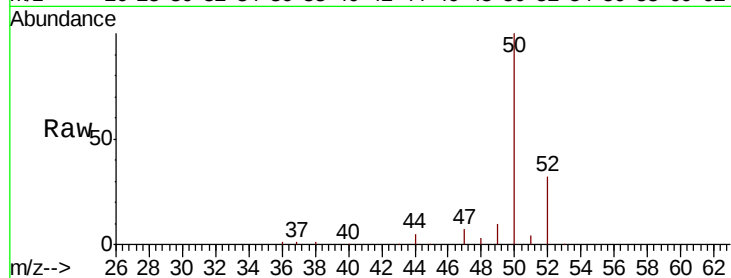
52 32.2 26.0 39.0

Manual Integrations

APPROVED

MMDadoda

9/17/2018 1:26:25 PM



#4

Vinyl Chloride

Concen: 17.63 ug/l

RT: 2.18 min Scan# 128

Delta R.T. 0.00 min

Lab File: VN051202.D

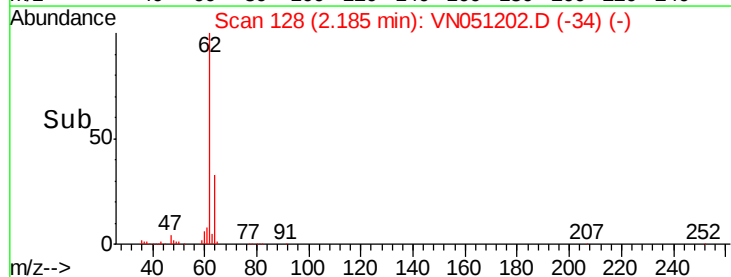
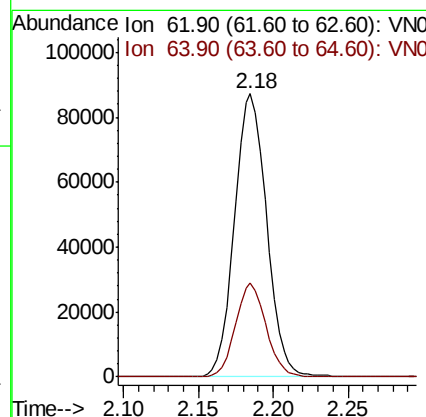
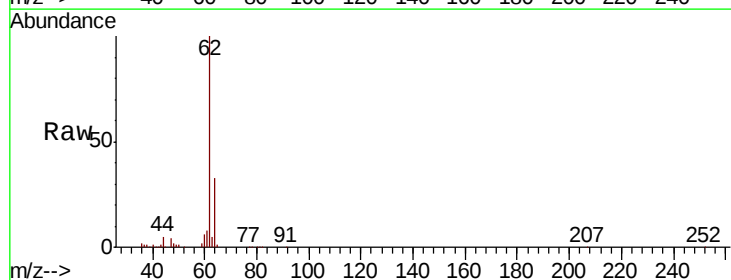
Acq: 14 Sep 2018 20:55

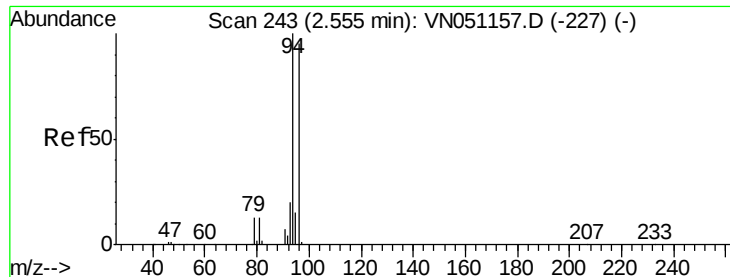
Tgt Ion: 62 Resp: 130614

Ion Ratio Lower Upper

62 100

64 33.0 26.2 39.4





#5

Bromomethane

Concen: 17.64 ug/l

RT: 2.57 min Scan# 247

Delta R.T. 0.00 min

Lab File: VN051202.D

Acq: 14 Sep 2018 20:55

Instrument :

MSVOA_N

ClientSampleId :

VN0914WBSD03

Tot Ion: 94 Resp: 76416

Ion Ratio Lower Upper

94 100

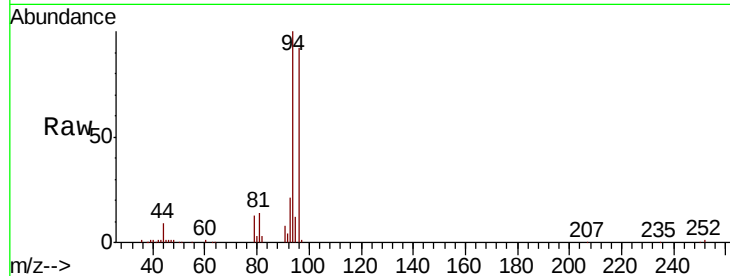
96 92.1 75.9 113.9

Manual Integrations

APPROVED

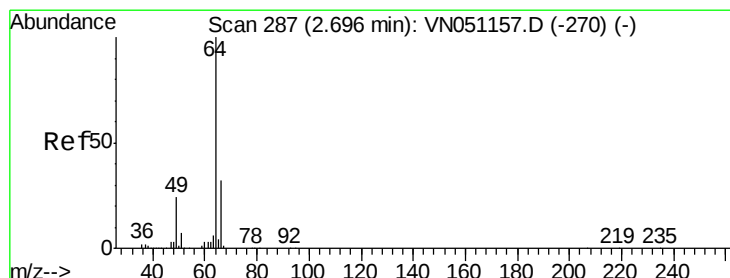
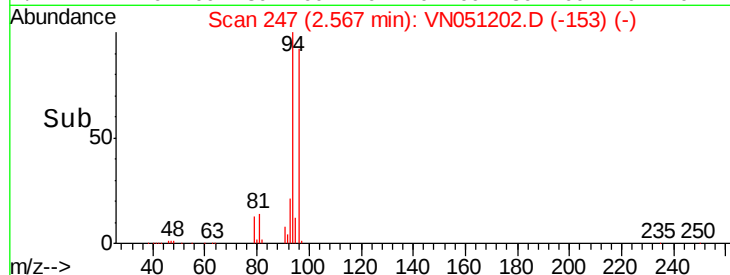
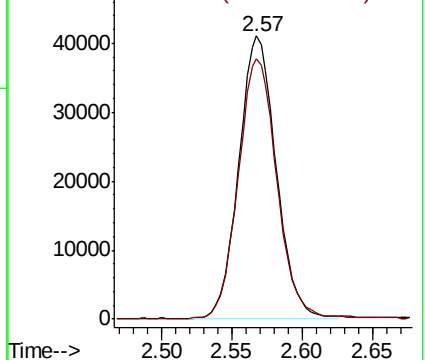
MMDadoda

9/17/2018 1:26:25 PM



Abundance Ion 93.90 (93.60 to 94.60): VN0

Ion 95.90 (95.60 to 96.60): VN0



#6

Chloroethane

Concen: 17.65 ug/l

RT: 2.70 min Scan# 289

Delta R.T. 0.00 min

Lab File: VN051202.D

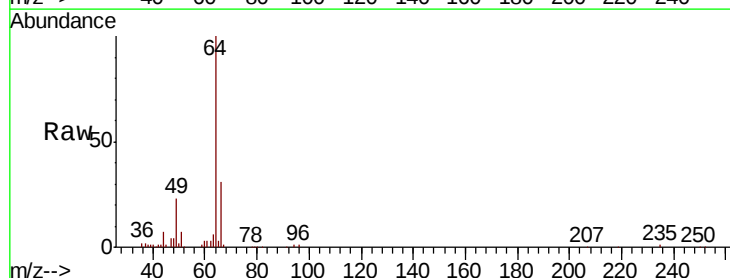
Acq: 14 Sep 2018 20:55

Tgt Ion: 64 Resp: 80707

Ion Ratio Lower Upper

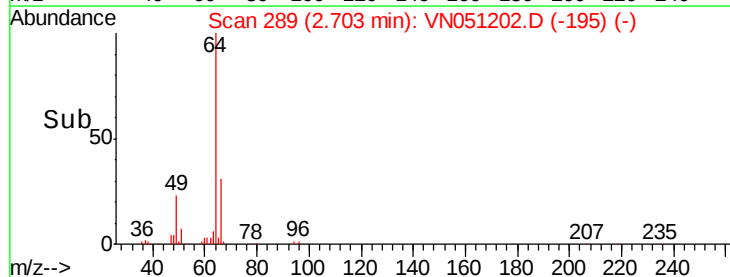
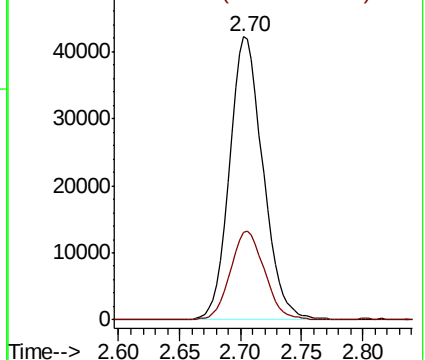
64 100

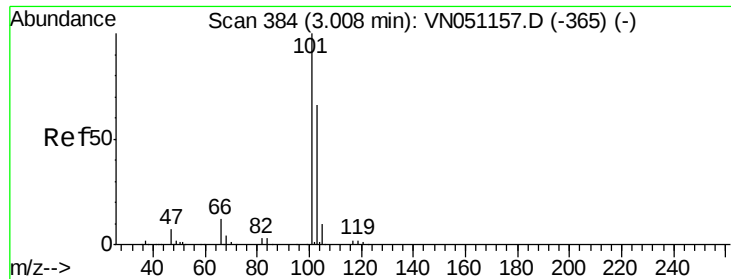
66 30.8 26.1 39.1



Abundance Ion 63.90 (63.60 to 64.60): VN0

Ion 65.90 (65.60 to 66.60): VN0





#7

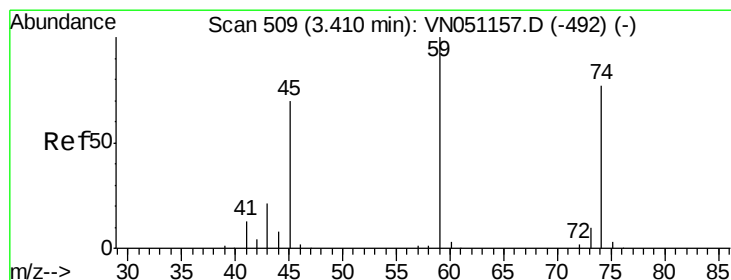
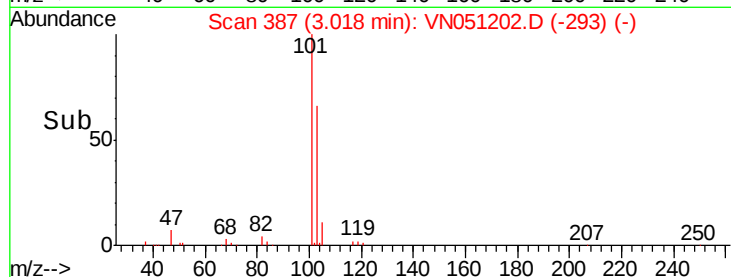
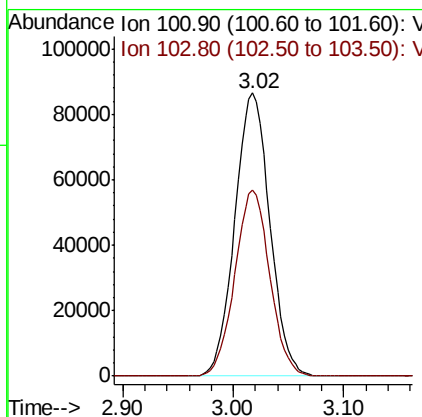
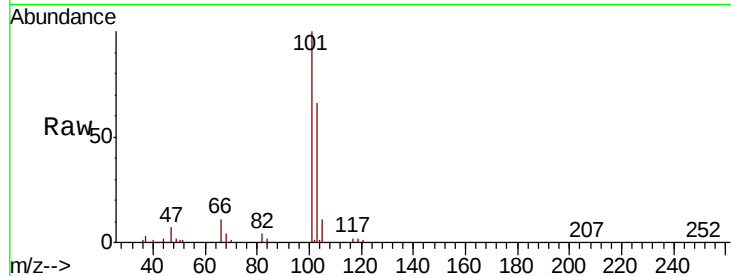
Trichlorofluoromethane
 Concen: 19.36 ug/l
 RT: 3.02 min Scan# 387
 Delta R.T. 0.00 min
 Lab File: VN051202.D
 Acq: 14 Sep 2018 20:55

Instrument :
 MSVOA_N
 ClientSampleId :
 VN0914WBSD03

Tot Ion	Ratio	Lower	Upper
101	100		
103	65.9	52.4	78.6

Manual Integrations
 APPROVED

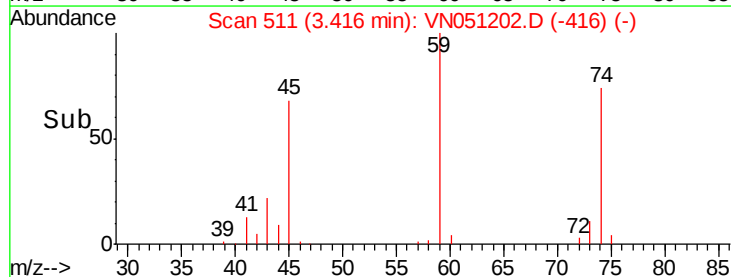
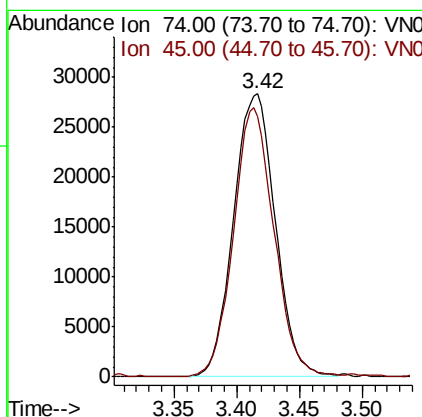
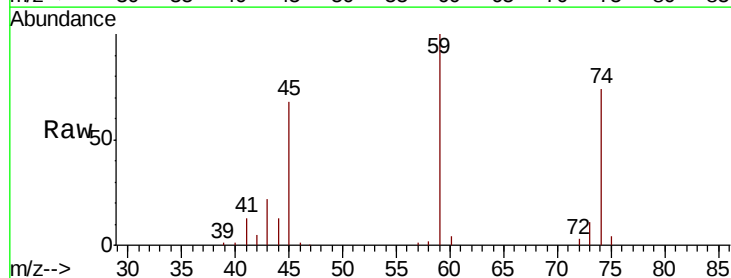
MMDadoda
 9/17/2018 1:26:25 PM

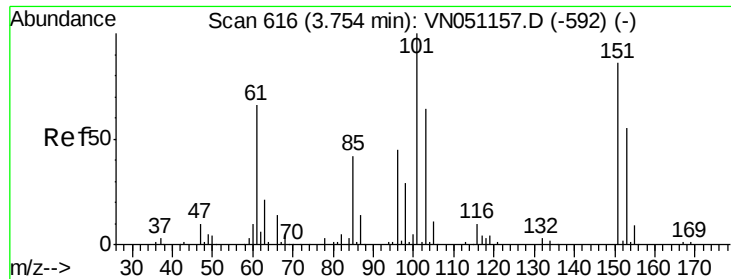


#8

Diethyl Ether
 Concen: 18.24 ug/l
 RT: 3.42 min Scan# 511
 Delta R.T. 0.01 min
 Lab File: VN051202.D
 Acq: 14 Sep 2018 20:55

Tgt Ion	Ratio	Lower	Upper
74	100		
45	92.0	46.7	140.0





#9

1,1,2-Trichlorotrifluoroethane

Concen: 19.11 ug/l

RT: 3.76 min Scan# 619

Delta R.T. 0.01 min

Lab File: VN051202.D

Acq: 14 Sep 2018 20:55

Instrument :

MSVOA_N

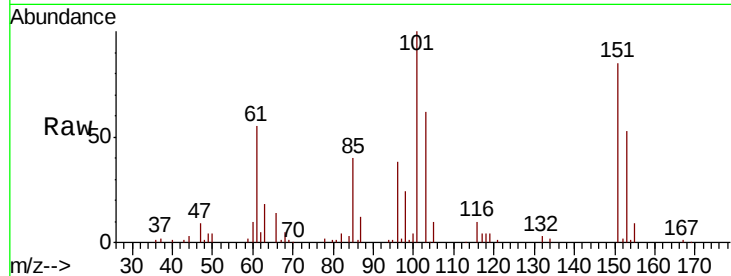
ClientSampleID :

VN0914WBSD03

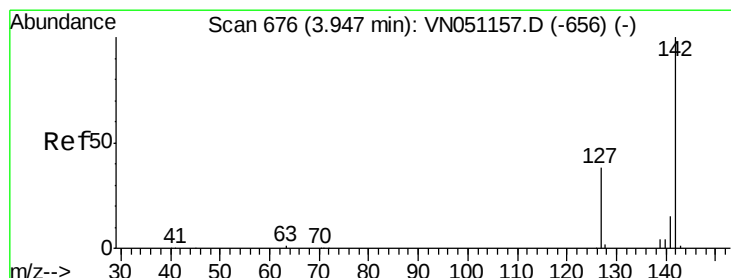
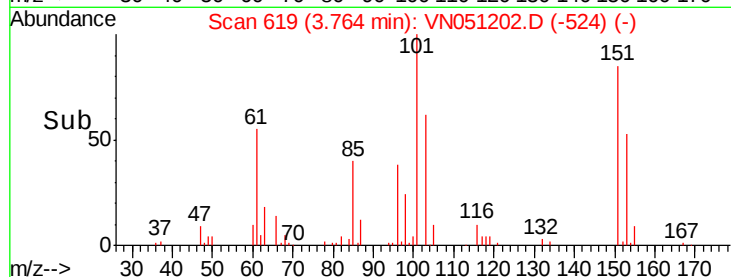
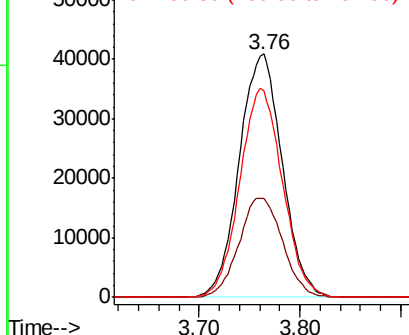
Tot Ion:	101	Resp:	120920
Ion Ratio	Lower	Upper	
101	100		
85	41.4	33.3	49.9
151	85.2	68.2	102.2

Manual Integrations
APPROVED

MMDadoda
9/17/2018 1:26:25 PM



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



#10

Methyl Iodide

Concen: 18.75 ug/l

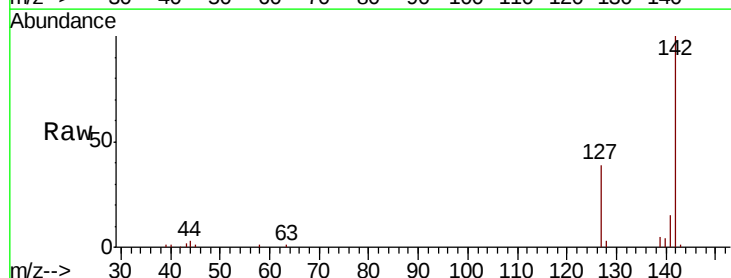
RT: 3.95 min Scan# 678

Delta R.T. 0.00 min

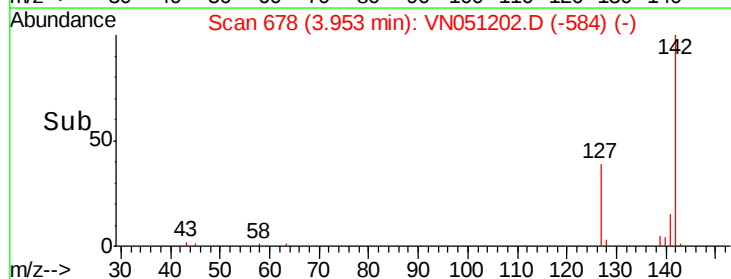
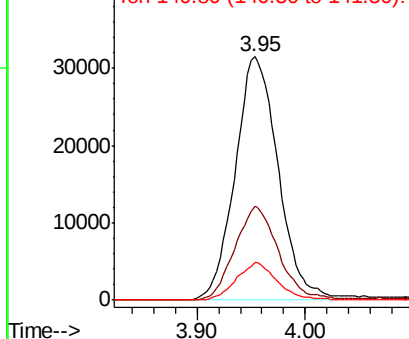
Lab File: VN051202.D

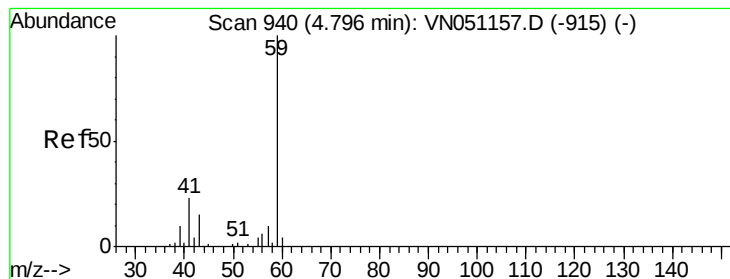
Acq: 14 Sep 2018 20:55

Tgt Ion:	142	Resp:	87514
Ion Ratio	Lower	Upper	
142	100		
127	38.8	31.0	46.4
141	14.5	11.3	16.9



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





#11

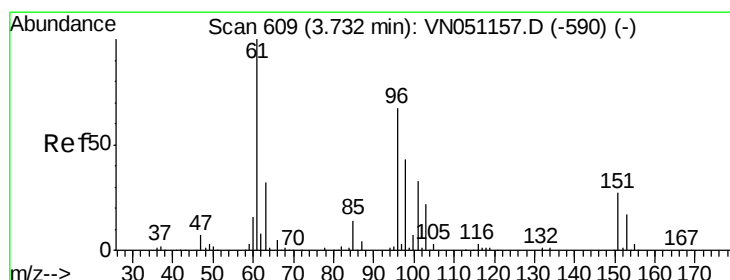
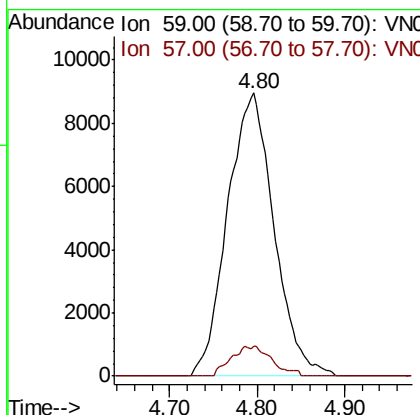
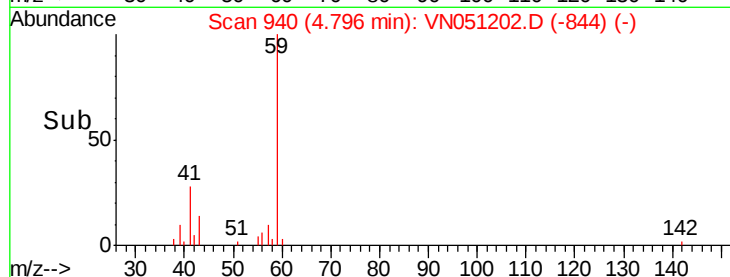
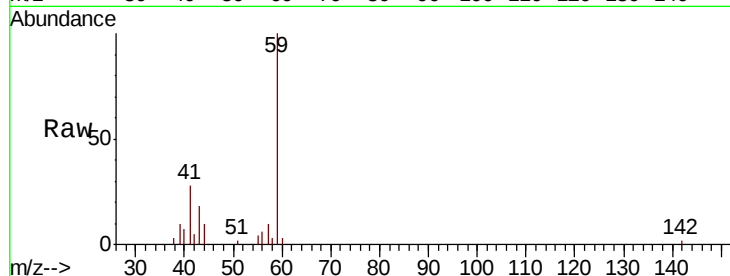
Tert butyl alcohol
Concen: 69.47 ug/l
RT: 4.80 min Scan# 940
Delta R.T. 0.01 min
Lab File: VN051202.D
Acq: 14 Sep 2018 20:55

Instrument :
MSVOA_N
ClientSampled :
VN0914WBSD03

Tot Ion	Ratio	Lower	Upper
59	100		
57	0.0	8.1	12.1#

Manual Integrations
APPROVED

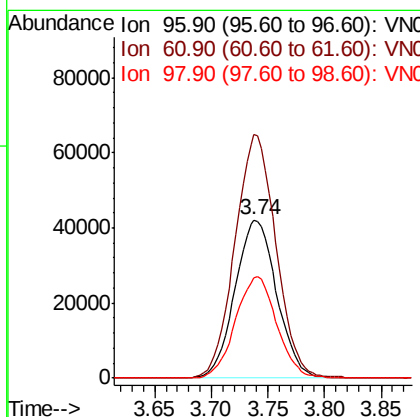
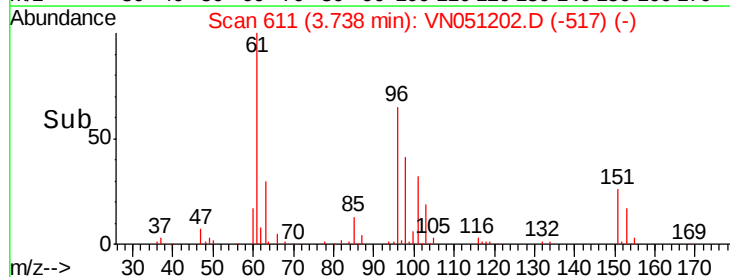
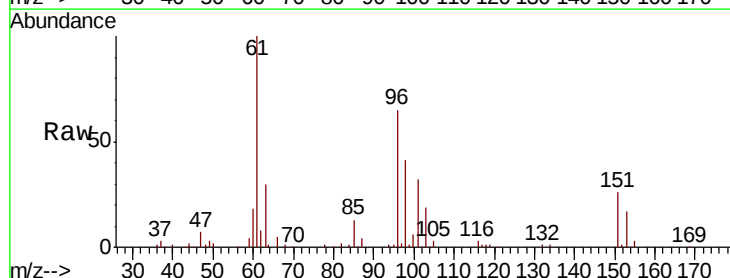
MMDadoda
9/17/2018 1:26:25 PM

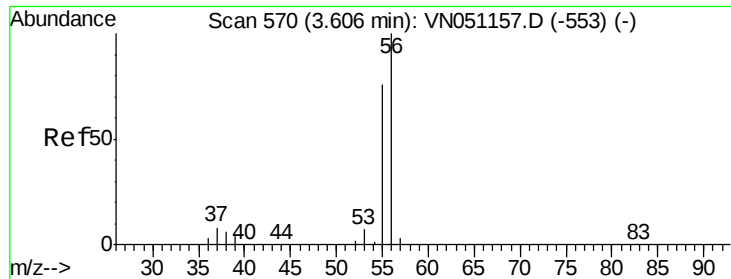


#12

1,1-Dichloroethene
Concen: 18.08 ug/l
RT: 3.74 min Scan# 611
Delta R.T. 0.00 min
Lab File: VN051202.D
Acq: 14 Sep 2018 20:55

Tgt Ion	Ratio	Lower	Upper
96	100		
61	154.0	120.3	180.5
98	63.1	50.8	76.2





#13

Acrolein

Concen: 63.28 ug/l

RT: 3.61 min Scan# 571

Delta R.T. 0.00 min

Lab File: VN051202.D

Acq: 14 Sep 2018 20:55

Instrument :

MSVOA_N

ClientSampleId :

VN0914WBSD03

Tot Ion: 56 Resp: 25085

Ion Ratio Lower Upper

56 100

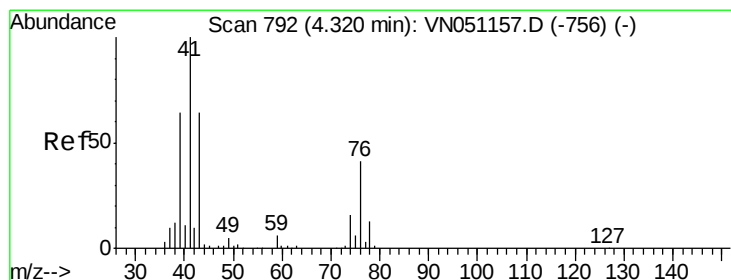
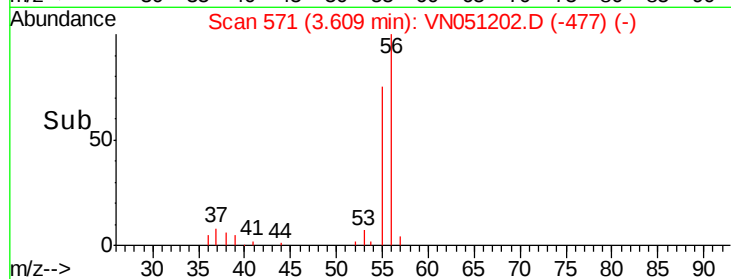
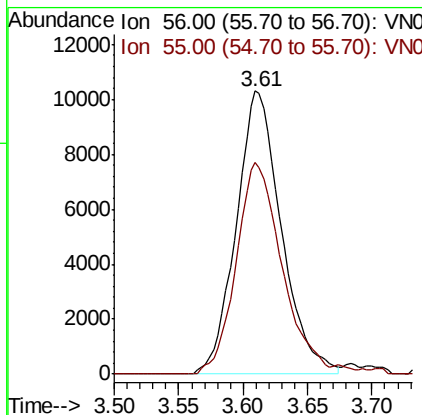
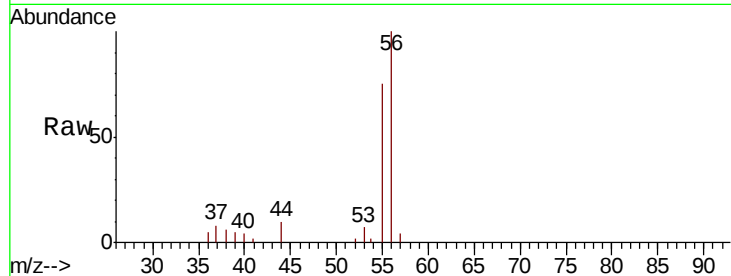
55 75.6 58.0 87.0

Manual Integrations

APPROVED

MMDadoda

9/17/2018 1:26:25 PM



#14

Allyl chloride

Concen: 17.28 ug/l

RT: 4.33 min Scan# 794

Delta R.T. 0.00 min

Lab File: VN051202.D

Acq: 14 Sep 2018 20:55

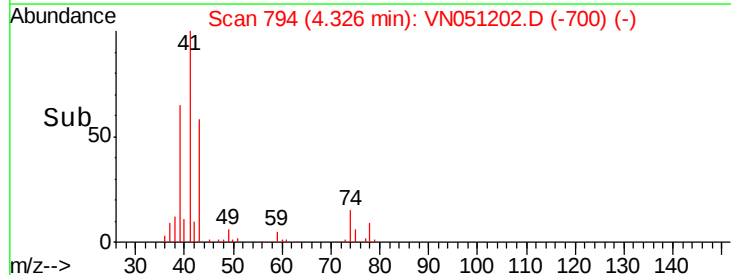
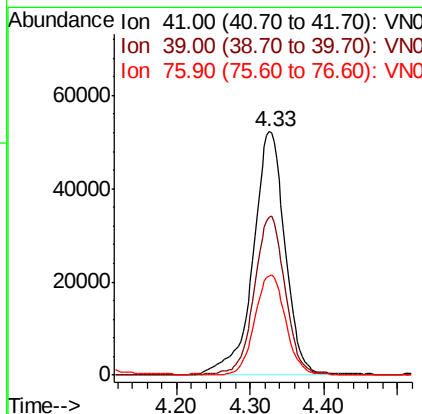
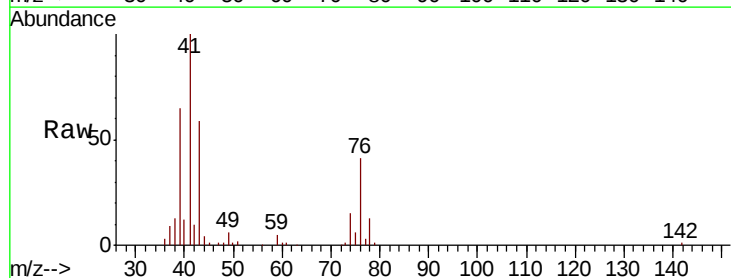
Tgt Ion: 41 Resp: 157238

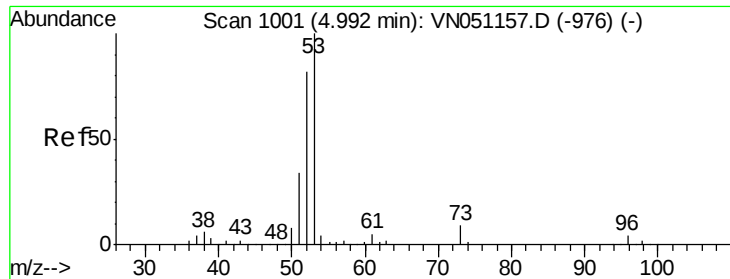
Ion Ratio Lower Upper

41 100

39 63.4 48.8 73.2

76 39.5 30.6 45.8





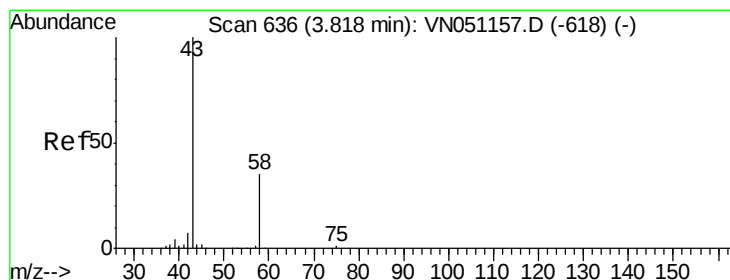
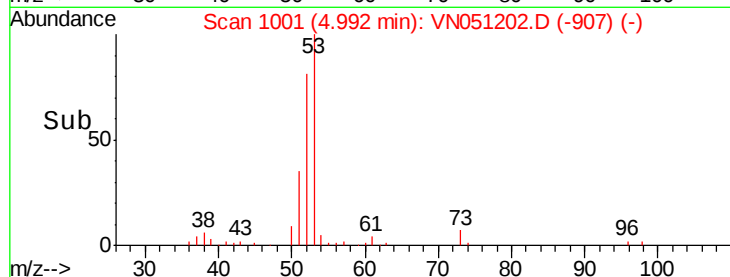
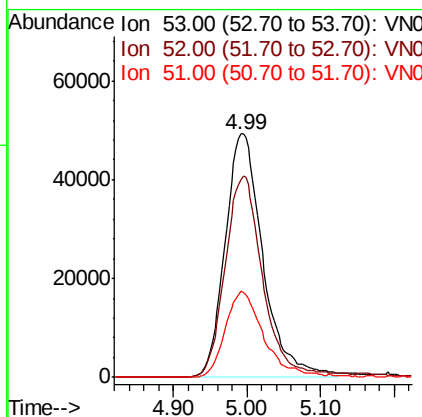
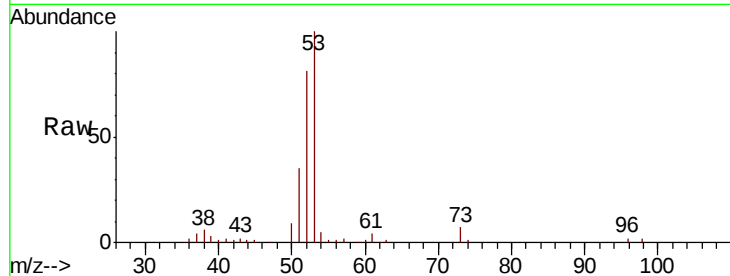
#15
 Acrylonitrile
 Concen: 83.51 ug/l
 RT: 4.99 min Scan# 1001
 Delta R.T. 0.00 min
 Lab File: VN051202.D
 Acq: 14 Sep 2018 20:55

Instrument :
 MSVOA_N
 ClientSampleId :
 VN0914WBSD03

Tot Ion	Ratio	Lower	Upper
53	100		
52	82.0	65.3	97.9
51	35.8	28.2	42.2

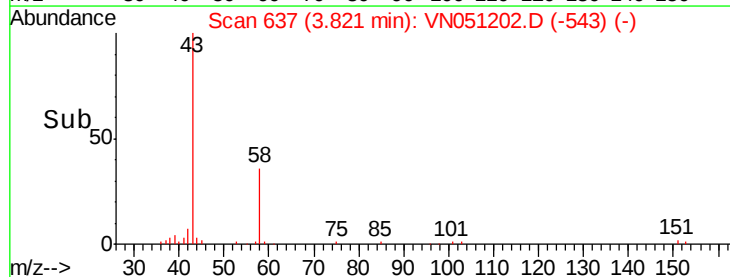
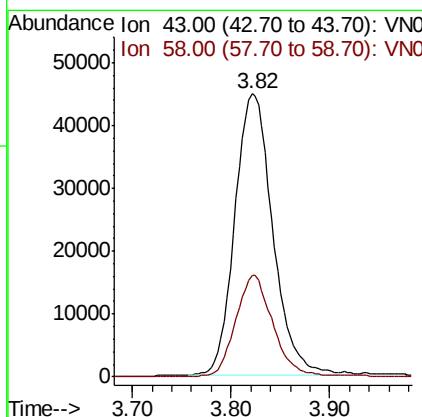
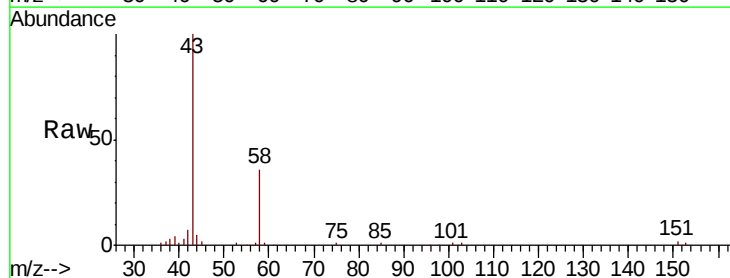
Manual Integrations
 APPROVED

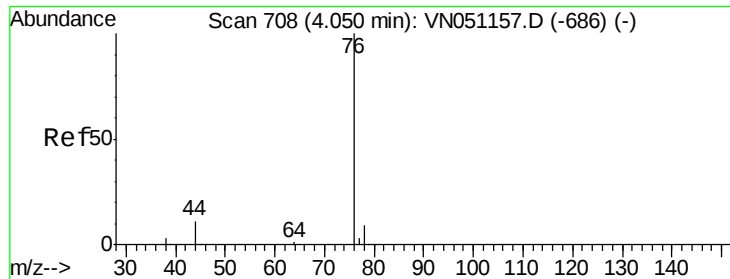
MMDadoda
 9/17/2018 1:26:25 PM



#16
 Acetone
 Concen: 73.43 ug/l
 RT: 3.82 min Scan# 637
 Delta R.T. 0.00 min
 Lab File: VN051202.D
 Acq: 14 Sep 2018 20:55

Tgt Ion	Ratio	Lower	Upper
43	100		
58	36.1	27.8	41.6





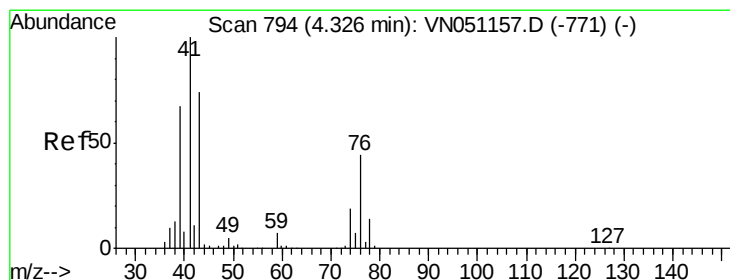
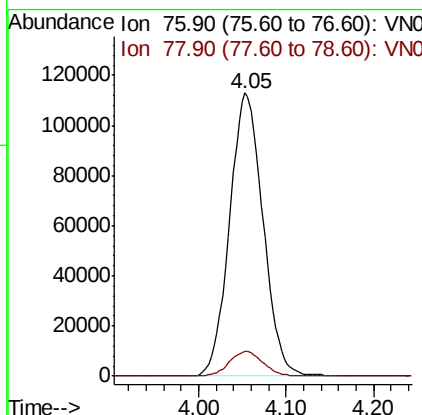
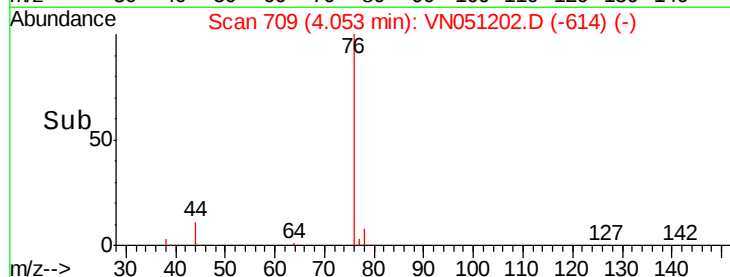
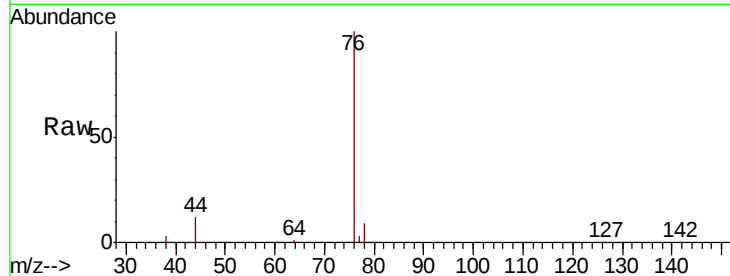
#17
Carbon Disulfide
Concen: 17.10 ug/l
RT: 4.05 min Scan# 709
Delta R.T. 0.00 min
Lab File: VN051202.D
Acq: 14 Sep 2018 20:55

Instrument :
MSVOA_N
ClientSampleId :
VN0914WBSD03

Tot Ion	Ratio	Lower	Upper
76	100		
78	8.8	7.0	10.6

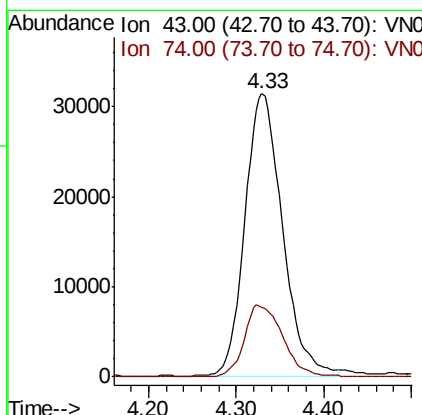
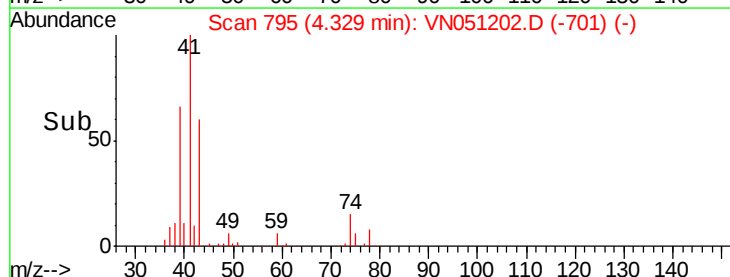
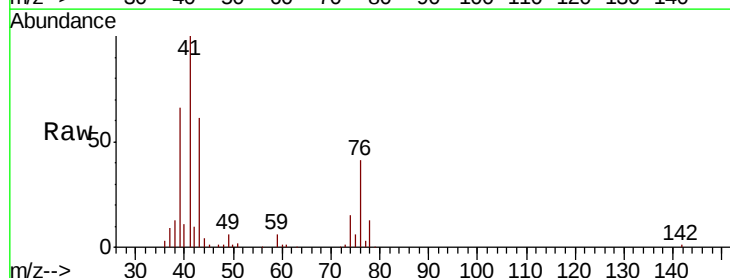
Manual Integrations
APPROVED

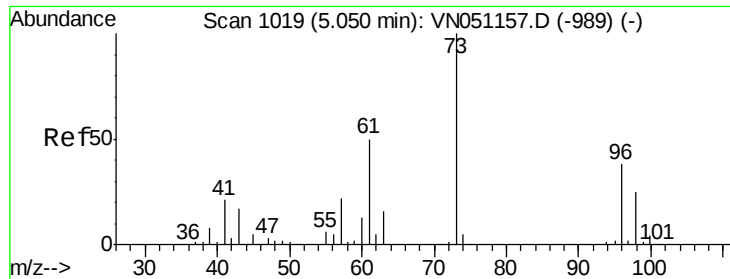
MMDadoda
9/17/2018 1:26:25 PM



#18
Methyl Acetate
Concen: 18.87 ug/l
RT: 4.33 min Scan# 795
Delta R.T. 0.00 min
Lab File: VN051202.D
Acq: 14 Sep 2018 20:55

Tgt Ion	Ratio	Lower	Upper
43	100		
74	25.8	20.7	31.1





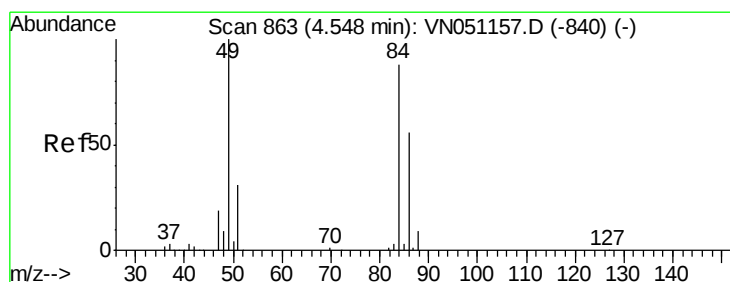
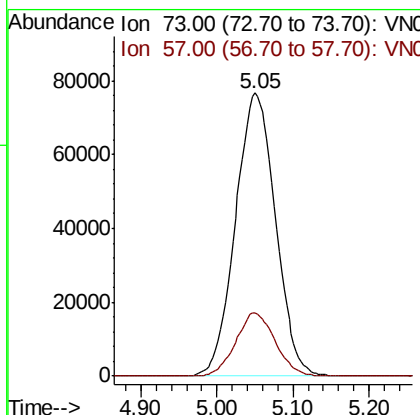
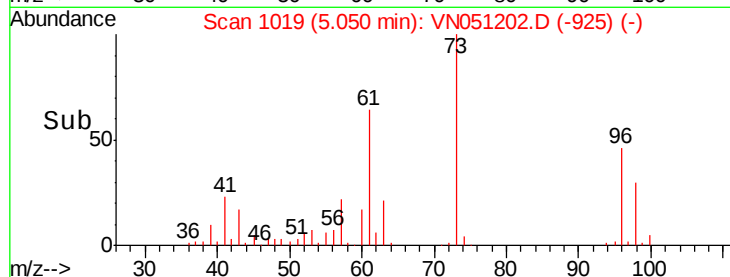
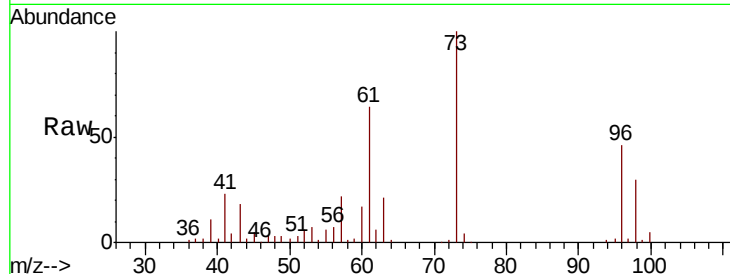
#19
Methvl tert-butvl Ether
Concen: 17.78 ug/l
RT: 5.05 min Scan# 1019
Delta R.T. 0.00 min
Lab File: VN051202.D
Acq: 14 Sep 2018 20:55

Instrument :
MSVOA_N
ClientSampleId :
VN0914WBSD03

Tot Ion: 73 Resp: 280593
Ion Ratio Lower Upper
73 100
57 22.1 17.9 26.9

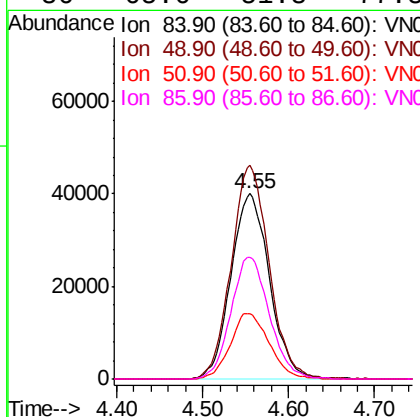
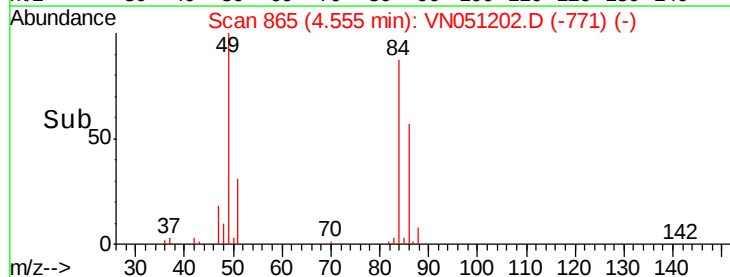
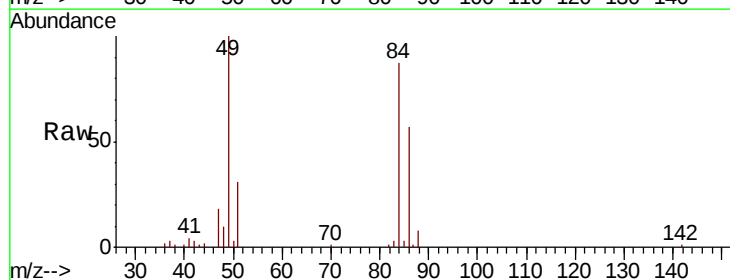
Manual Integrations
APPROVED

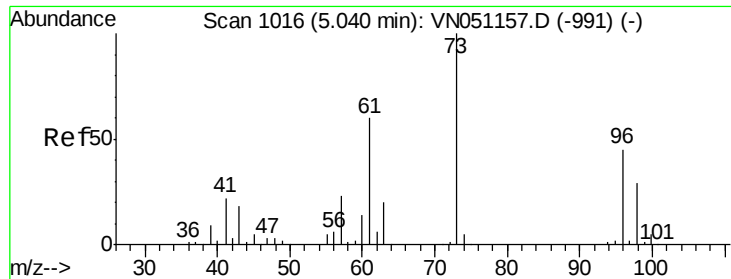
MMDadoda
9/17/2018 1:26:25 PM



#20
Methylene Chloride
Concen: 18.14 ug/l
RT: 4.55 min Scan# 865
Delta R.T. 0.00 min
Lab File: VN051202.D
Acq: 14 Sep 2018 20:55

Tgt Ion: 84 Resp: 124803
Ion Ratio Lower Upper
84 100
49 115.2 90.2 135.2
51 35.4 28.4 42.6
86 65.6 51.8 77.8





#21

trans-1,2-Dichloroethene

Concen: 17.83 ug/l

RT: 5.05 min Scan# 1018

Delta R.T. 0.00 min

Lab File: VN051202.D

Acq: 14 Sep 2018 20:55

Instrument :

MSVOA_N

ClientSampleId :

VN0914WBSD03

Tot Ion: 96 Resp: 115484

Ion Ratio Lower Upper

96 100

61 137.6 106.5 159.7

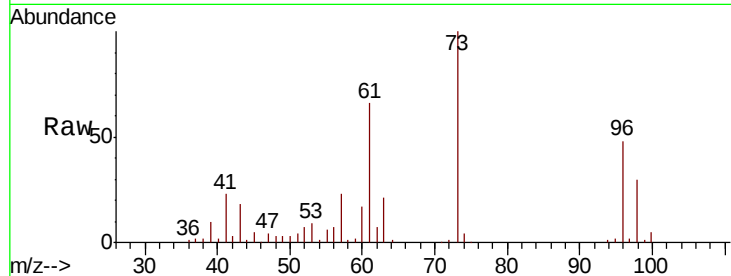
98 62.9 50.4 75.6

Manual Integrations

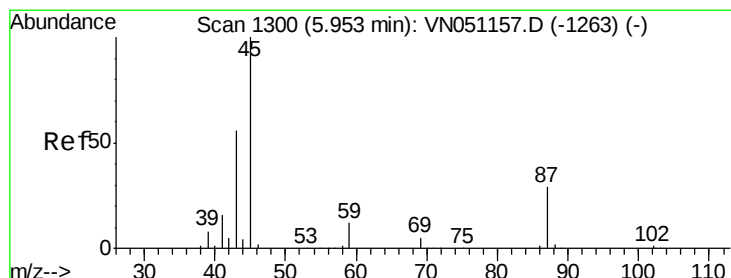
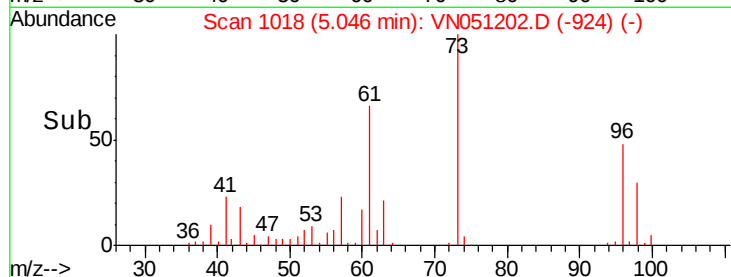
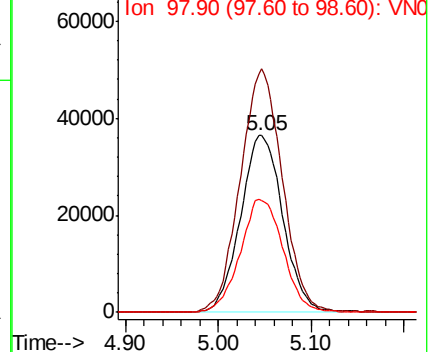
APPROVED

MMDadoda

9/17/2018 1:26:25 PM



Abundance Ion 95.90 (95.60 to 96.60): VNC
Ion 60.90 (60.60 to 61.60): VNC
Ion 97.90 (97.60 to 98.60): VNC



#22

Diisopropyl ether

Concen: 19.88 ug/l

RT: 5.95 min Scan# 1300

Delta R.T. 0.00 min

Lab File: VN051202.D

Acq: 14 Sep 2018 20:55

Tgt Ion: 45 Resp: 359057

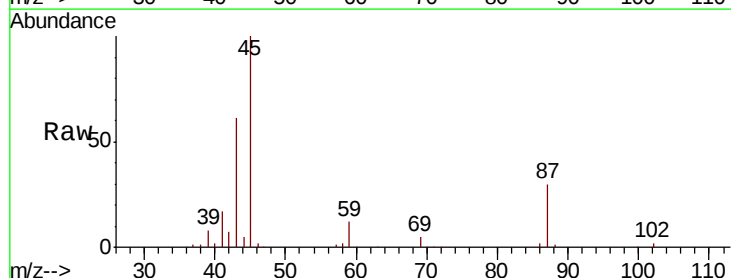
Ion Ratio Lower Upper

45 100

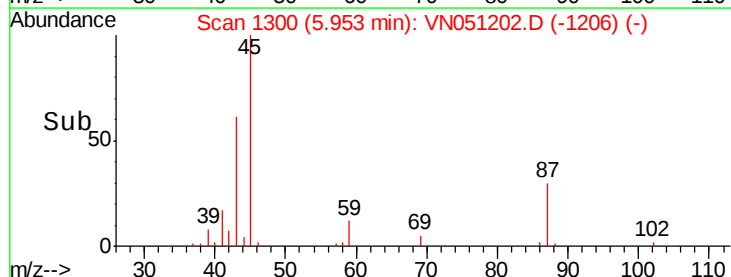
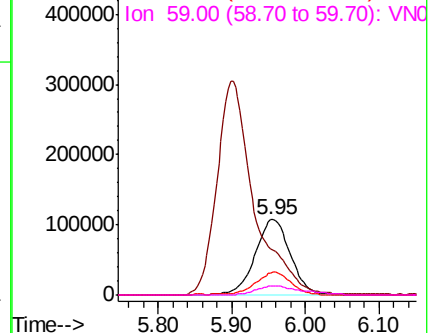
43 59.5 48.8 73.2

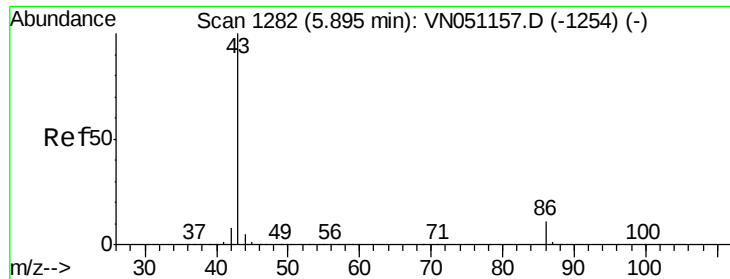
87 29.4 23.8 35.8

59 11.7 9.6 14.4



Abundance Ion 45.00 (44.70 to 45.70): VNC
Ion 43.00 (42.70 to 43.70): VNC
Ion 87.00 (86.70 to 87.70): VNC
Ion 59.00 (58.70 to 59.70): VNC





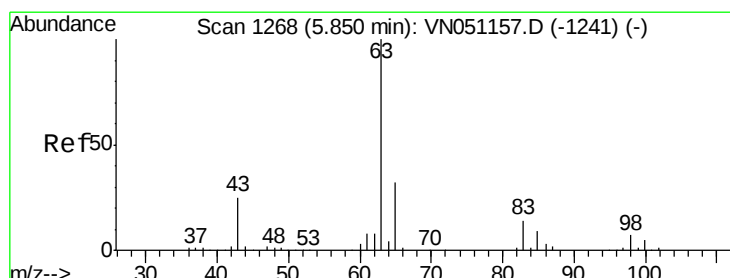
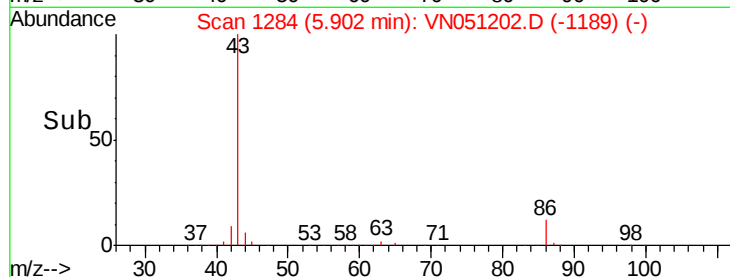
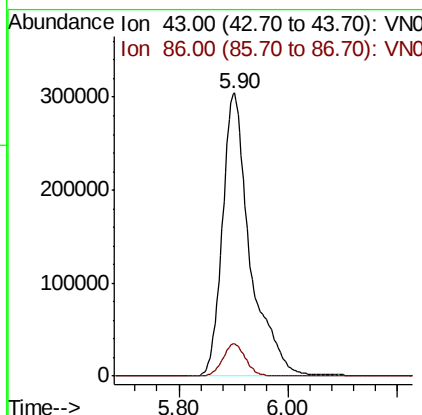
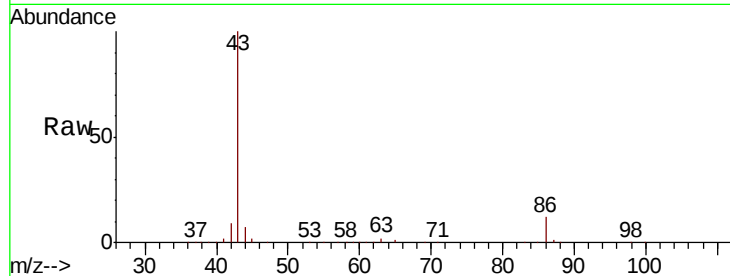
#23
 Vinyl Acetate
 Concen: 87.73 ug/l
 RT: 5.90 min Scan# 1284
 Delta R.T. 0.01 min
 Lab File: VN051202.D
 Acq: 14 Sep 2018 20:55

Instrument :
 MSVOA_N
 ClientSampleId :
 VN0914WBSD03

Tot Ion: 43 Resp: 1072094
 Ion Ratio Lower Upper
 43 100
 86 11.5 9.2 13.8

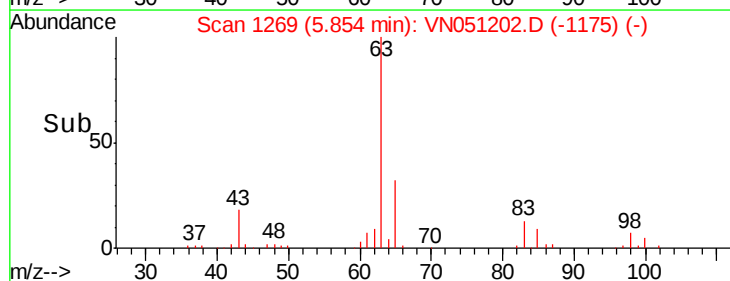
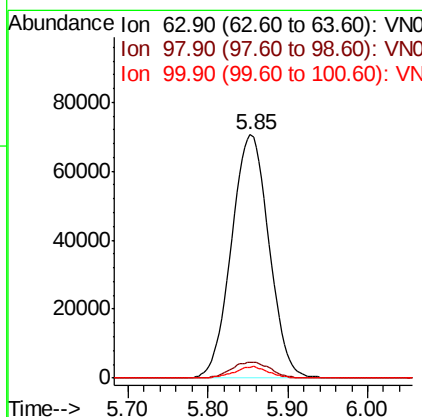
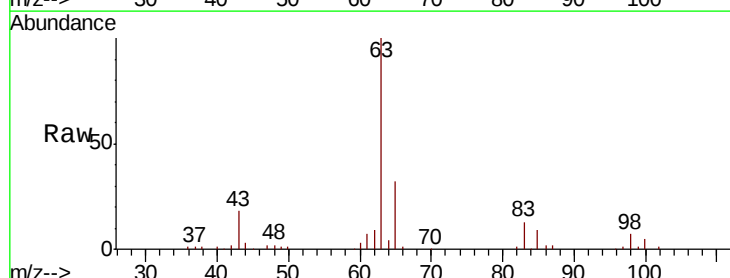
Manual Integrations
 APPROVED

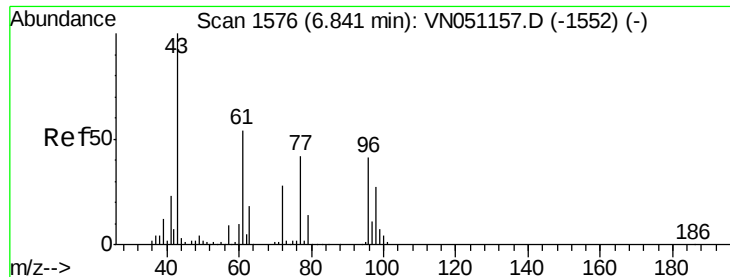
MMDadoda
 9/17/2018 1:26:25 PM



#24
 1,1-Dichloroethane
 Concen: 19.60 ug/l
 RT: 5.85 min Scan# 1269
 Delta R.T. 0.00 min
 Lab File: VN051202.D
 Acq: 14 Sep 2018 20:55

Tgt Ion: 63 Resp: 224597
 Ion Ratio Lower Upper
 63 100
 98 6.5 3.4 10.1
 100 4.6 2.1 6.3





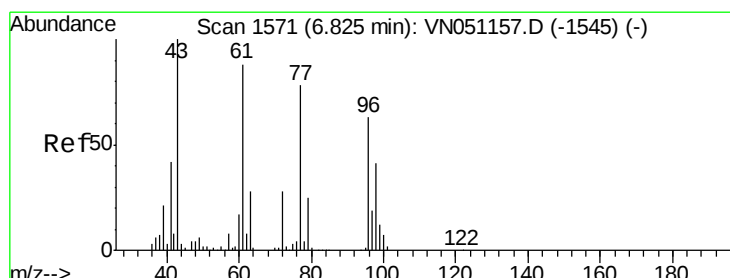
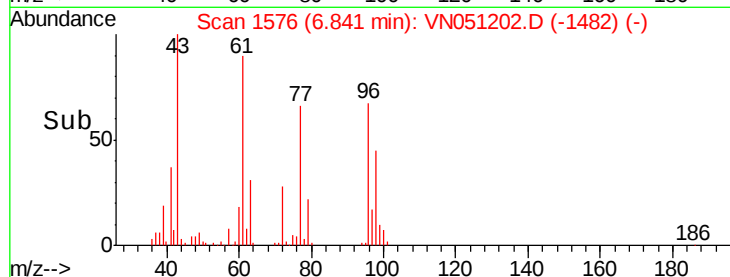
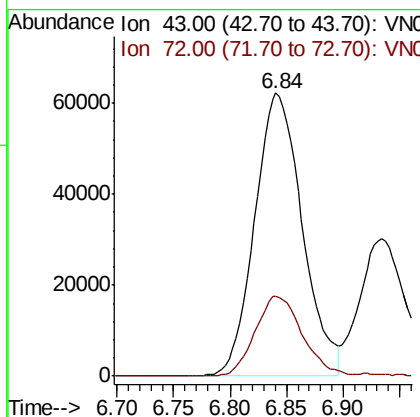
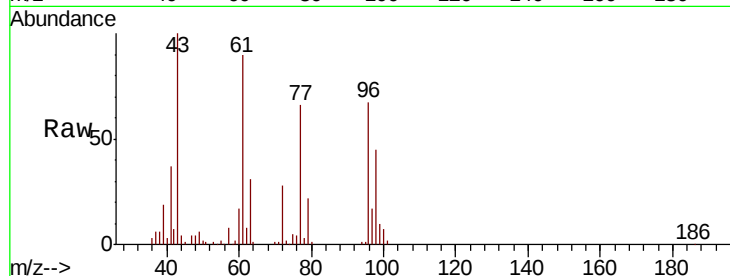
#25
2-Butanone
Concen: 74.24 ug/l
RT: 6.84 min Scan# 1576
Delta R.T. 0.00 min
Lab File: VN051202.D
Acq: 14 Sep 2018 20:55

Instrument :
MSVOA_N
ClientSampleId :
VN0914WBSD03

Tot Ion	Ratio	Lower	Upper
43	100		
72	28.2	23.0	34.6

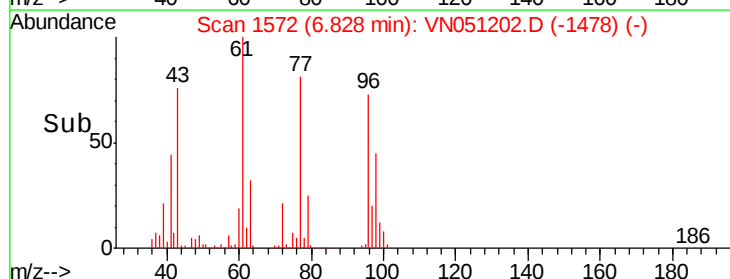
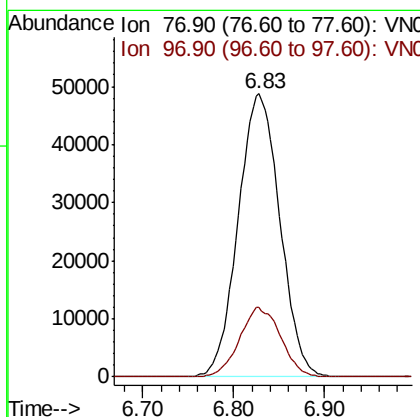
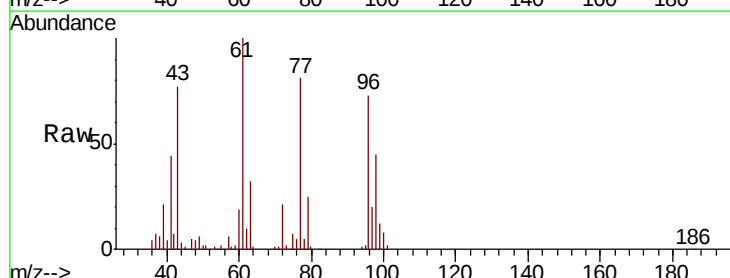
Manual Integrations
APPROVED

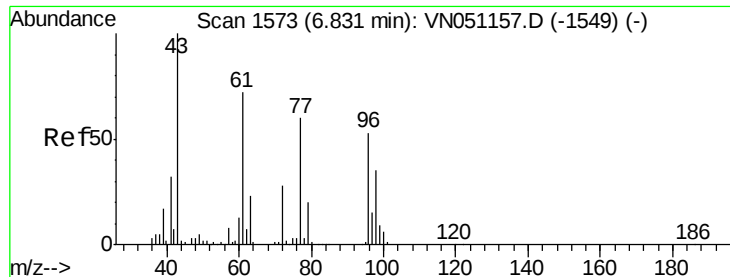
MMDadoda
9/17/2018 1:26:25 PM



#26
2,2-Dichloropropane
Concen: 16.55 ug/l
RT: 6.83 min Scan# 1572
Delta R.T. 0.00 min
Lab File: VN051202.D
Acq: 14 Sep 2018 20:55

Tgt Ion	Ratio	Lower	Upper
77	100		
97	24.1	12.1	36.3





#27

cis-1,2-Dichloroethene

Concen: 18.51 ug/l

RT: 6.83 min Scan# 1573

Delta R.T. 0.00 min

Lab File: VN051202.D

Acq: 14 Sep 2018 20:55

Instrument :

MSVOA_N

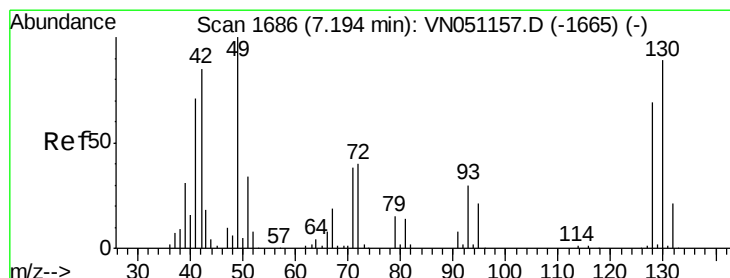
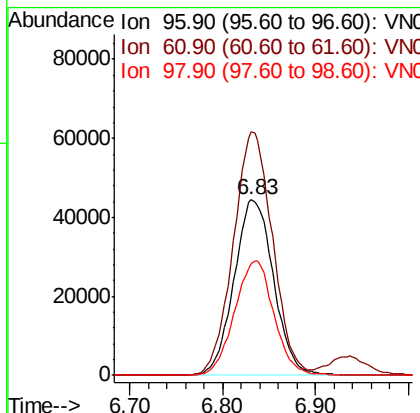
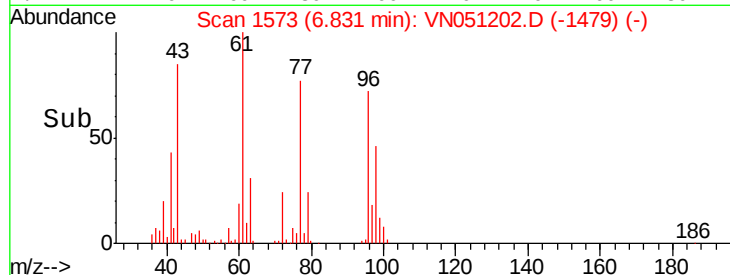
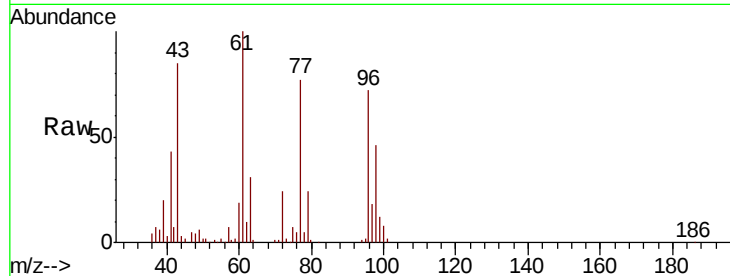
ClientSampleId :

VN0914WBSD03

Tot Ion:	96	Resp:	131492
Ion	Ratio	Lower	Upper
96	100		
61	137.6	0.0	278.2
98	64.6	0.0	129.4

Manual Integrations
APPROVED

MMDadoda
9/17/2018 1:26:25 PM



#28

Bromochloromethane

Concen: 17.92 ug/l

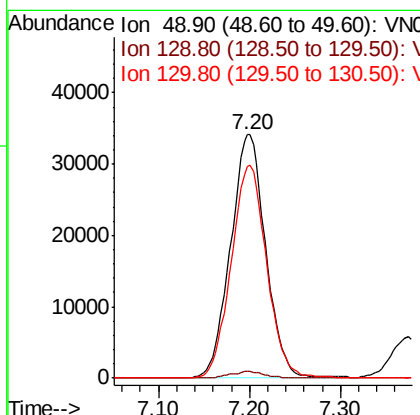
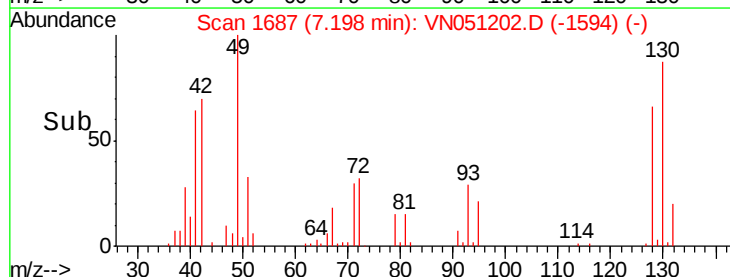
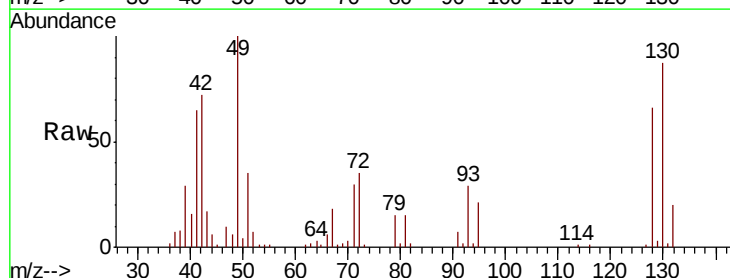
RT: 7.20 min Scan# 1687

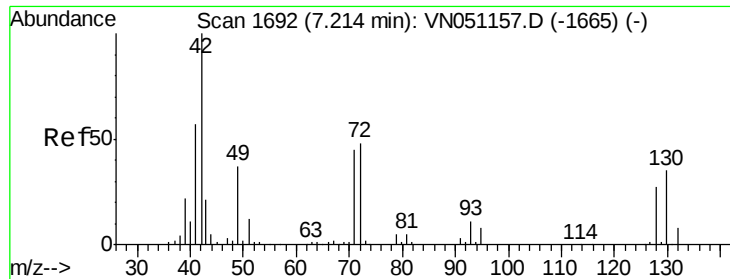
Delta R.T. -0.00 min

Lab File: VN051202.D

Acq: 14 Sep 2018 20:55

Tgt Ion:	49	Resp:	91393
Ion	Ratio	Lower	Upper
49	100		
129	2.5	0.0	4.4
130	88.2	70.7	106.1





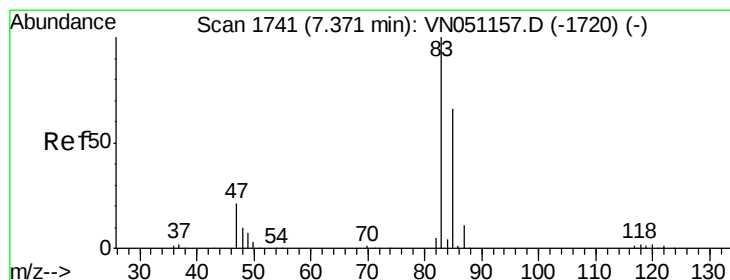
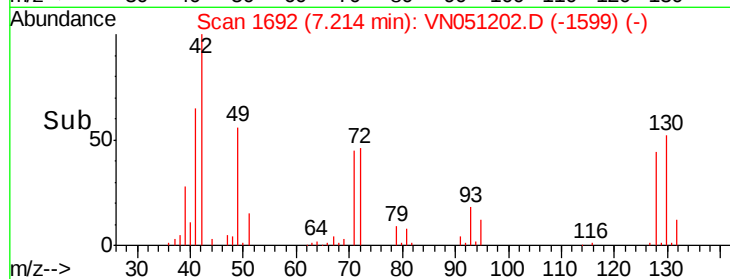
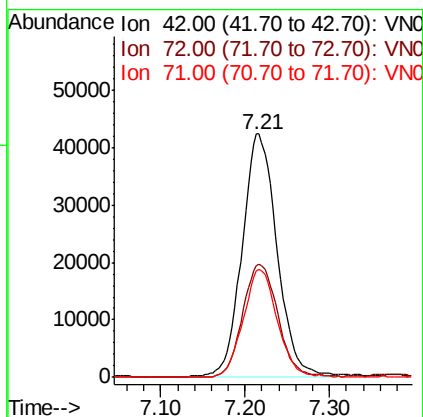
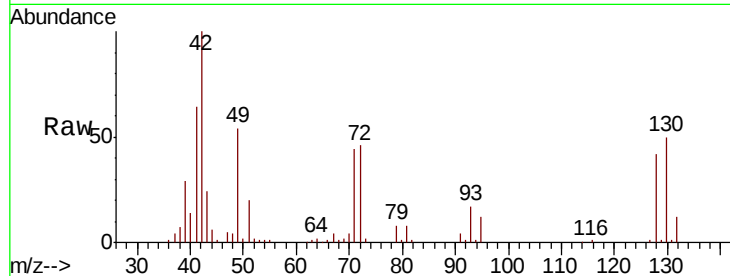
#29
Tetrahydrofuran
Concen: 80.18 ug/l
RT: 7.21 min Scan# 1692
Delta R.T. -0.00 min
Lab File: VN051202.D
Acq: 14 Sep 2018 20:55

Instrument :
MSVOA_N
ClientSampleId :
VN0914WBSD03

Tot Ion	Ratio	Lower	Upper
42	100		
72	46.8	37.4	56.0
71	43.2	34.7	52.1

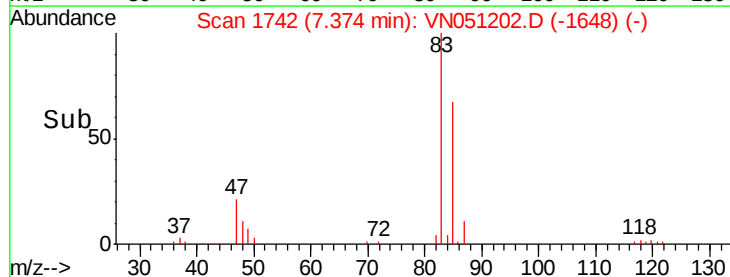
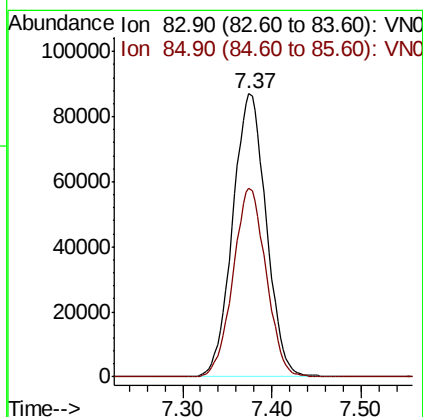
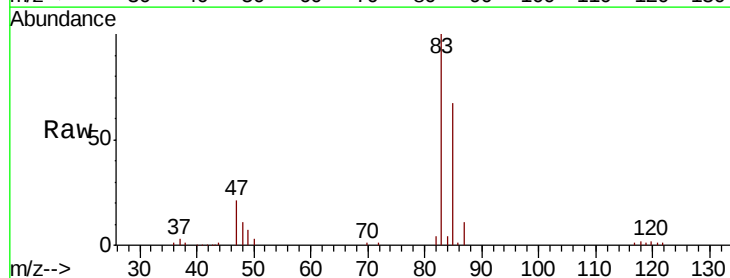
Manual Integrations
APPROVED

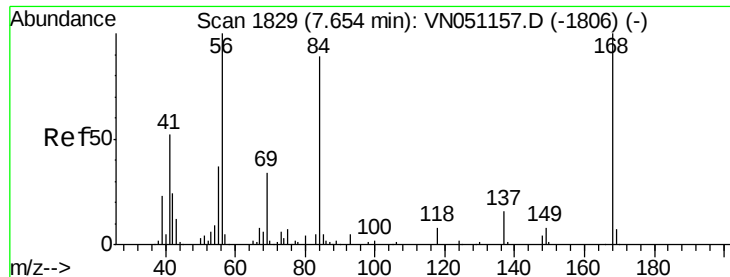
MMDadoda
9/17/2018 1:26:25 PM



#30
Chloroform
Concen: 19.91 ug/l
RT: 7.37 min Scan# 1742
Delta R.T. 0.00 min
Lab File: VN051202.D
Acq: 14 Sep 2018 20:55

Tgt Ion	Ratio	Lower	Upper
83	100		
85	66.9	52.6	79.0





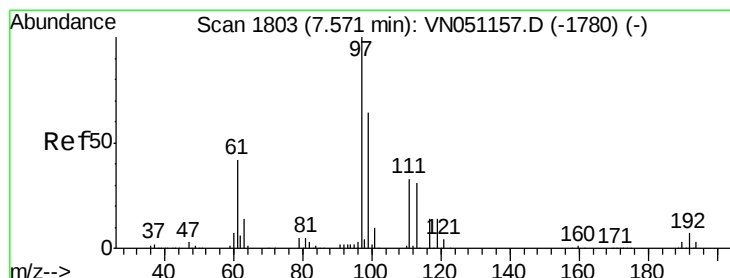
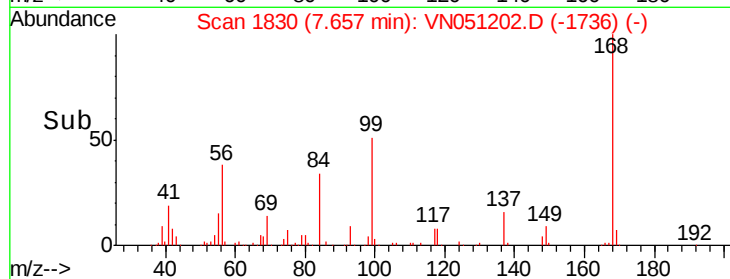
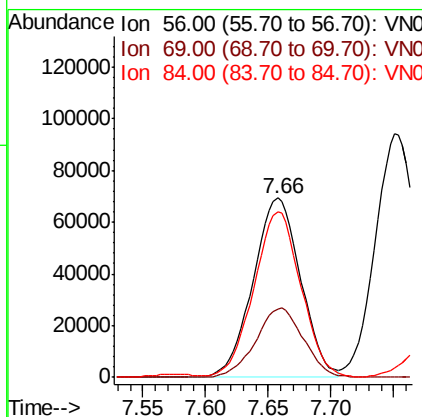
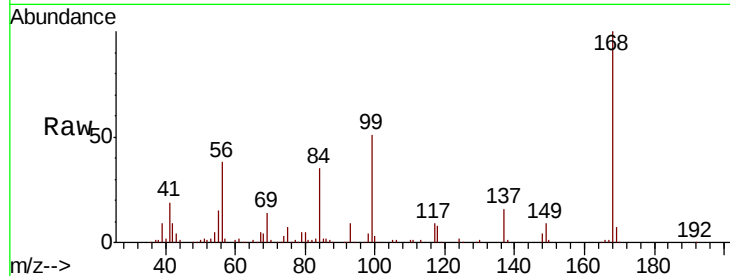
#31
Cyclohexane
Concen: 17.76 ug/l
RT: 7.66 min Scan# 1830
Delta R.T. 0.00 min
Lab File: VN051202.D
Acq: 14 Sep 2018 20:55

Instrument :
MSVOA_N
ClientSampleId :
VN0914WBSD03

Tot Ion	Ratio	Lower	Upper
56	100		
69	38.1	26.3	39.5
84	91.2	69.4	104.0

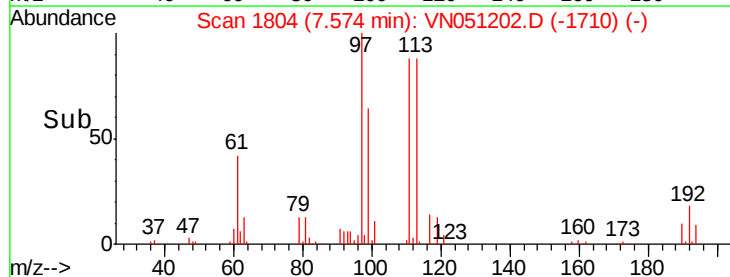
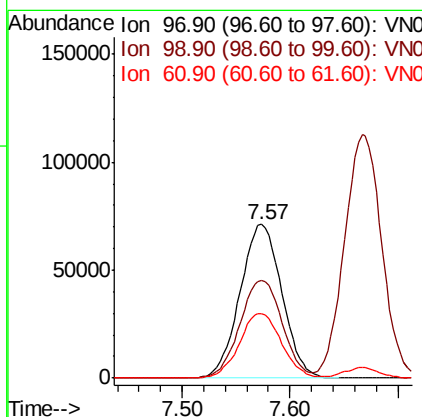
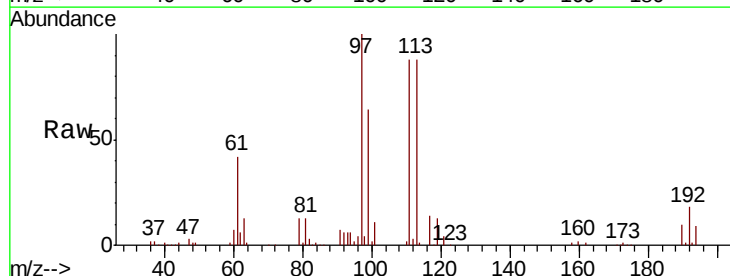
Manual Integrations
APPROVED

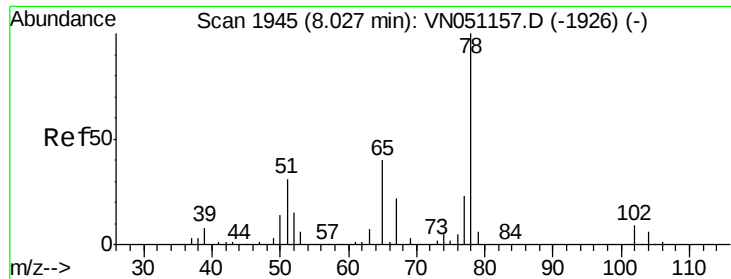
MMDadoda
9/17/2018 1:26:25 PM



#32
1,1,1-Trichloroethane
Concen: 19.76 ug/l
RT: 7.57 min Scan# 1804
Delta R.T. 0.00 min
Lab File: VN051202.D
Acq: 14 Sep 2018 20:55

Tgt Ion	Ratio	Lower	Upper
97	100		
99	64.4	51.6	77.4
61	42.5	33.8	50.6





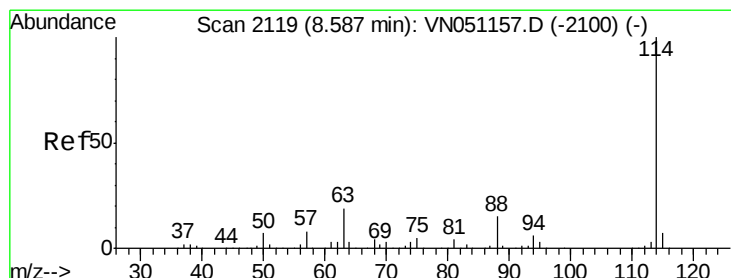
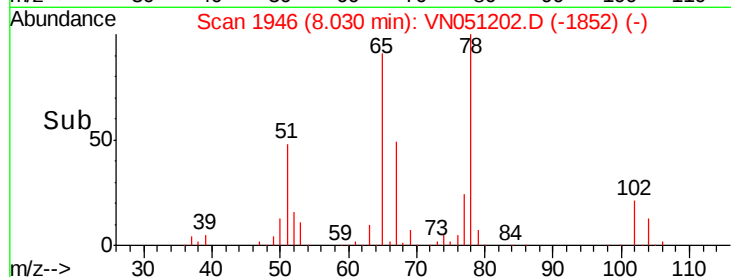
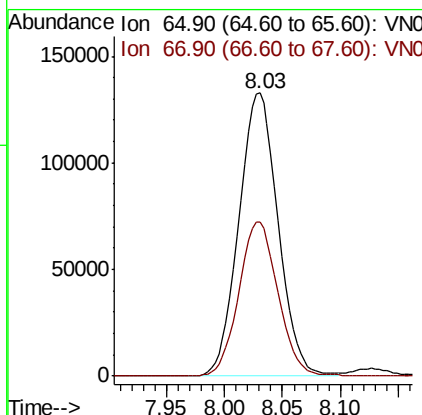
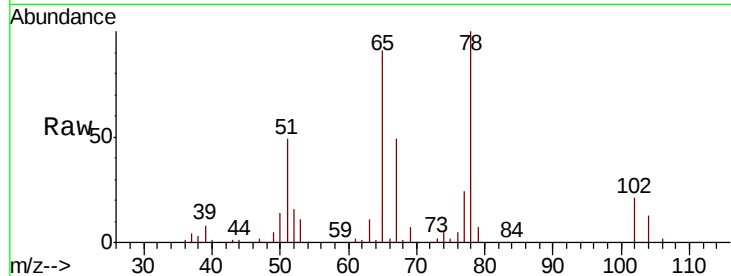
#33
 1,2-Dichloroethane-d4
 Concen: 50.21 ug/l
 RT: 8.03 min Scan# 1946
 Delta R.T. 0.00 min
 Lab File: VN051202.D
 Acq: 14 Sep 2018 20:55

Instrument :
 MSVOA_N
 ClientSampleId :
 VN0914WBSD03

Tot Ion	Ratio	Resp	Lower	Upper
65	100	312757		
67	54.2	0.0	112.0	

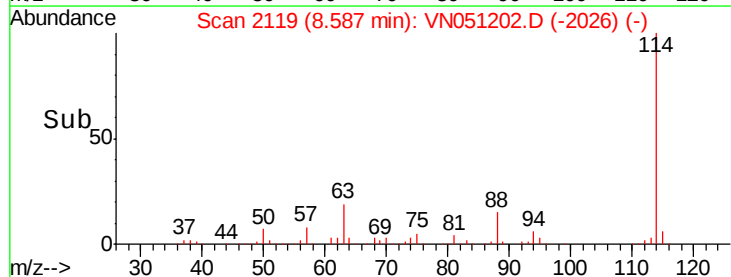
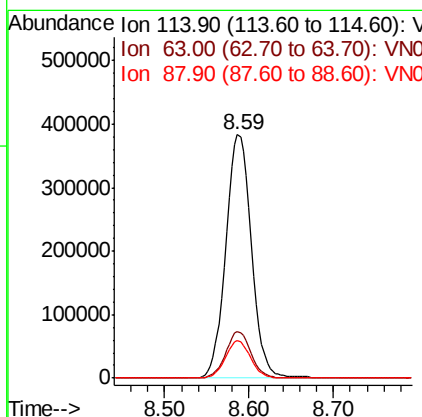
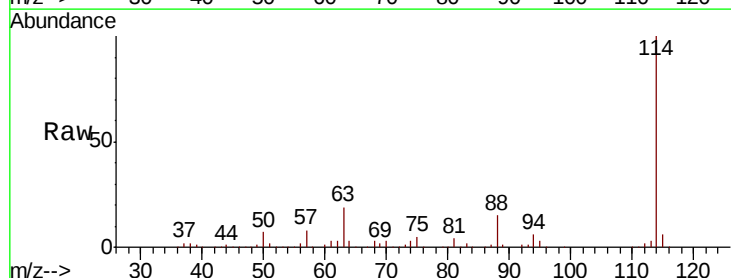
Manual Integrations
 APPROVED

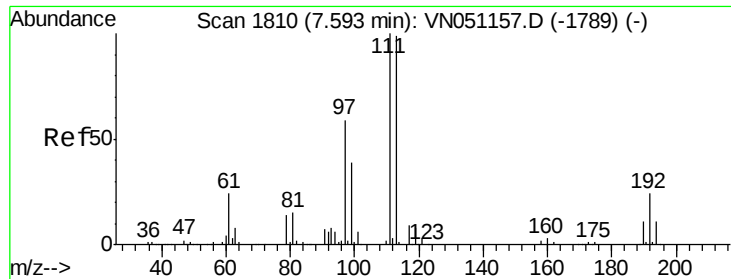
MMDadoda
 9/17/2018 1:26:25 PM



#34
 1,4-Difluorobenzene
 Concen: 50.00 ug/l
 RT: 8.59 min Scan# 2119
 Delta R.T. -0.00 min
 Lab File: VN051202.D
 Acq: 14 Sep 2018 20:55

Tgt Ion	Ratio	Resp	Lower	Upper
114	100	810453		
63	19.1	0.0	37.8	
88	15.3	0.0	30.8	





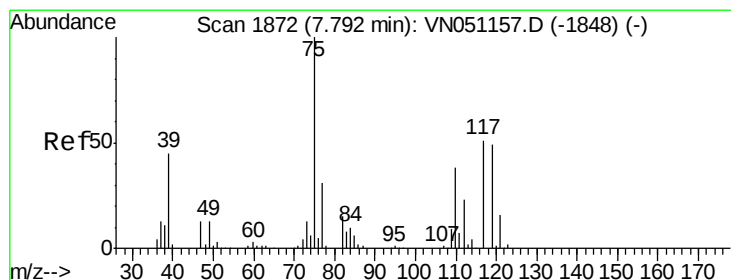
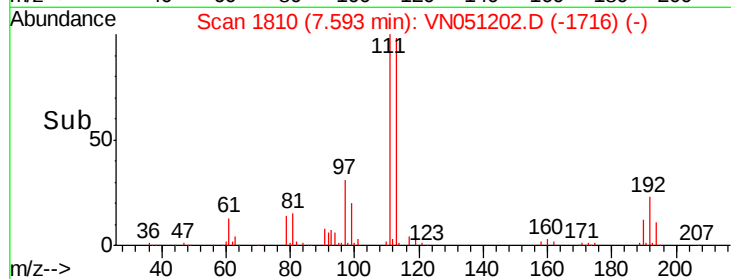
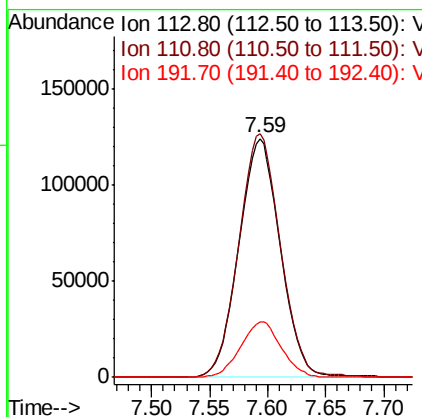
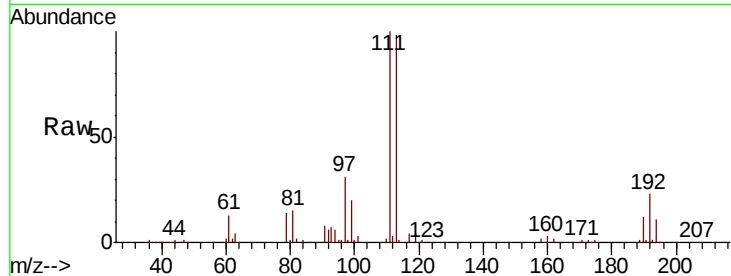
#35
 Dibromofluoromethane
 Concen: 50.50 ug/l
 RT: 7.59 min Scan# 1810
 Delta R.T. 0.00 min
 Lab File: VN051202.D
 Acq: 14 Sep 2018 20:55

Instrument :
 MSVOA_N
 ClientSampleId :
 VN0914WBSD03

Tot Ion	Ratio	Resp	Lower	Upper
113	100	307542		
111	103.0	83.0	124.6	
192	23.1	18.7	28.1	

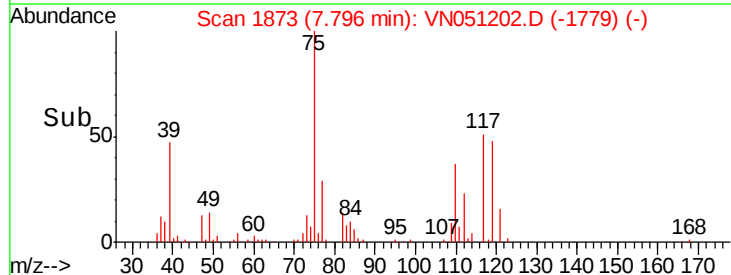
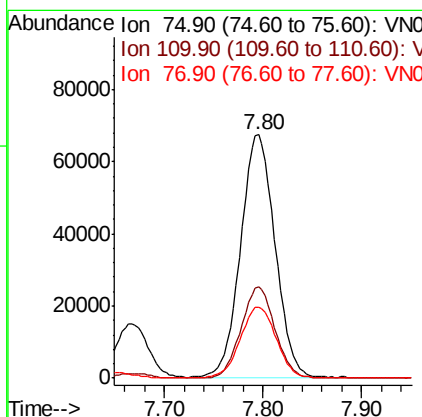
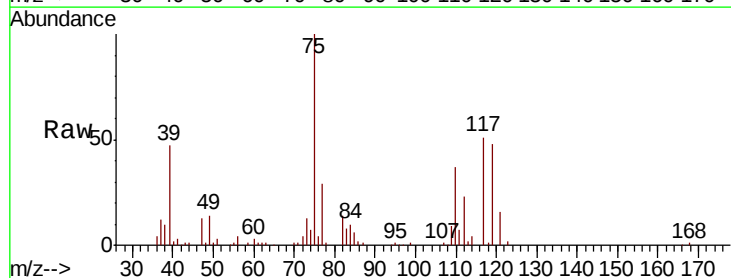
Manual Integrations
 APPROVED

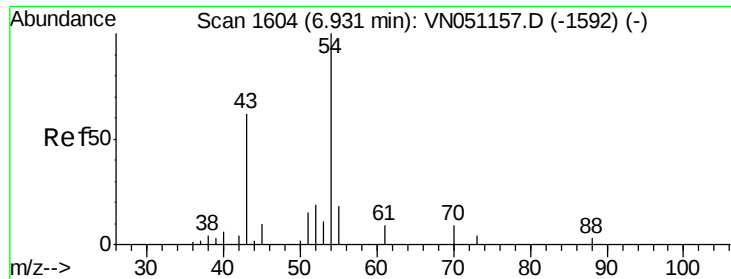
MMDadoda
 9/17/2018 1:26:25 PM



#36
 1,1-Dichloropropene
 Concen: 18.27 ug/l
 RT: 7.80 min Scan# 1873
 Delta R.T. 0.00 min
 Lab File: VN051202.D
 Acq: 14 Sep 2018 20:55

Tgt Ion	Ratio	Resp	Lower	Upper
75	100	162539		
110	36.8	18.6	55.8	
77	30.6	25.2	37.8	





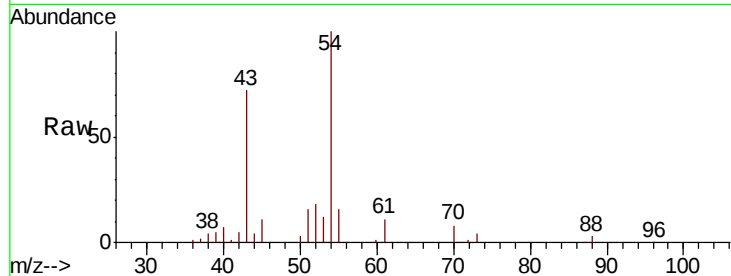
#37
Ethyl Acetate
Concen: 16.46 ug/l
RT: 6.93 min Scan# 1605
Delta R.T. 0.00 min
Lab File: VN051202.D
Acq: 14 Sep 2018 20:55

Instrument :
MSVOA_N
ClientSampleId :
VN0914WBSD03

Tot Ion	Ratio	Lower	Upper
43	100		
61	17.4	12.4	18.6
70	10.8	9.3	13.9

Manual Integrations
APPROVED

MMDadoda
9/17/2018 1:26:25 PM

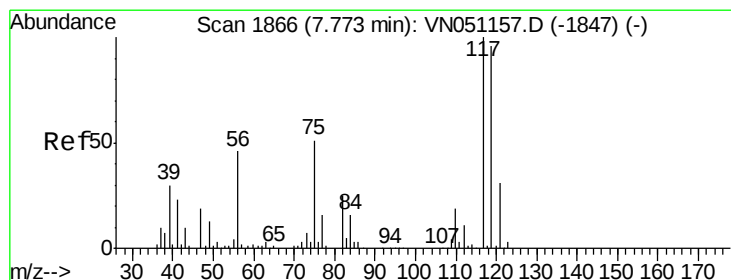
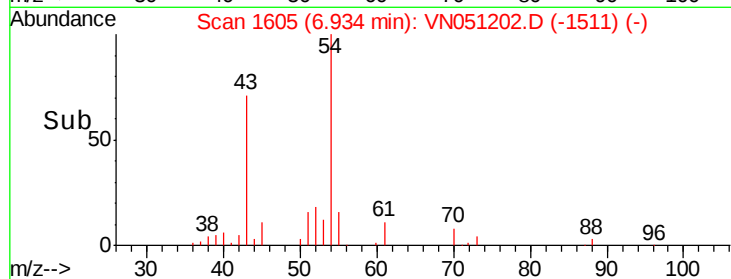
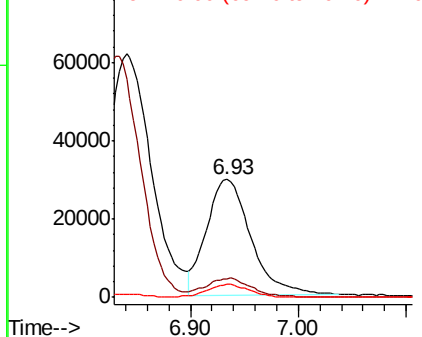


Abundance

Ion 43.00 (42.70 to 43.70): VN051157.D (-1592) (-)

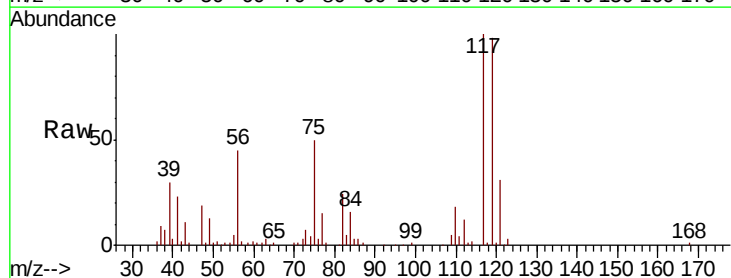
Ion 60.90 (60.60 to 61.60): VN051157.D (-1592) (-)

Ion 70.00 (69.70 to 70.70): VN051157.D (-1592) (-)



#38
Carbon Tetrachloride
Concen: 19.66 ug/l
RT: 7.78 min Scan# 1867
Delta R.T. 0.00 min
Lab File: VN051202.D
Acq: 14 Sep 2018 20:55

Tgt Ion	Ratio	Lower	Upper
117	100		
119	97.8	76.8	115.2
121	30.7	24.6	36.8

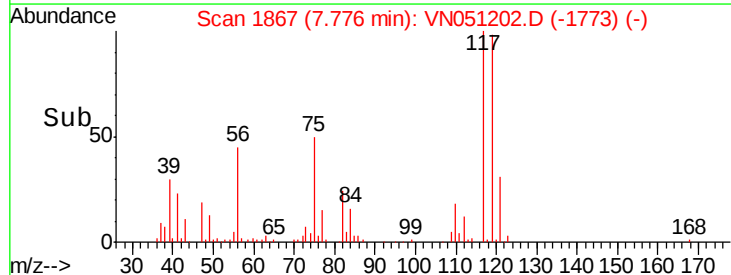
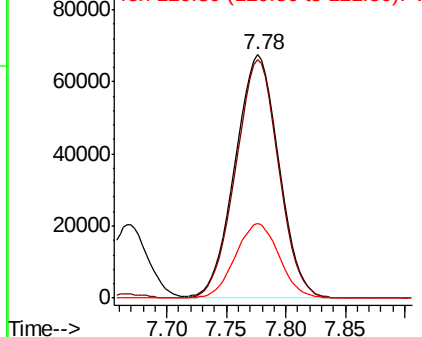


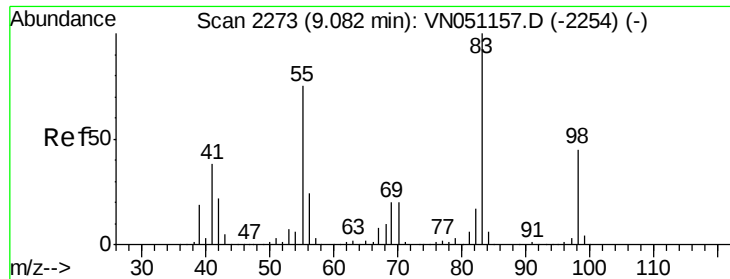
Abundance

Ion 116.80 (116.50 to 117.50): VN051157.D (-1847) (-)

Ion 118.80 (118.50 to 119.50): VN051157.D (-1847) (-)

Ion 120.80 (120.50 to 121.50): VN051157.D (-1847) (-)





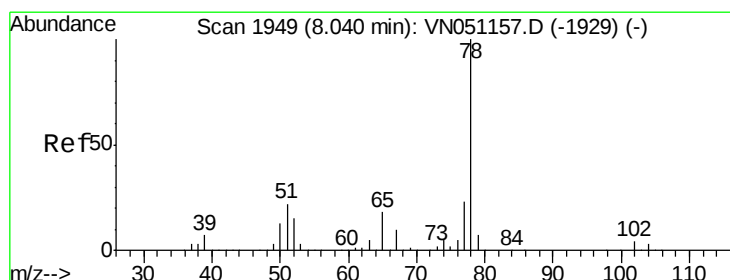
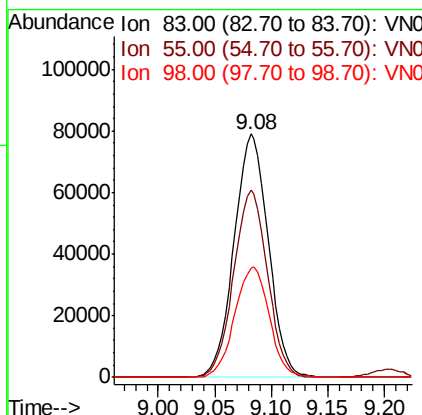
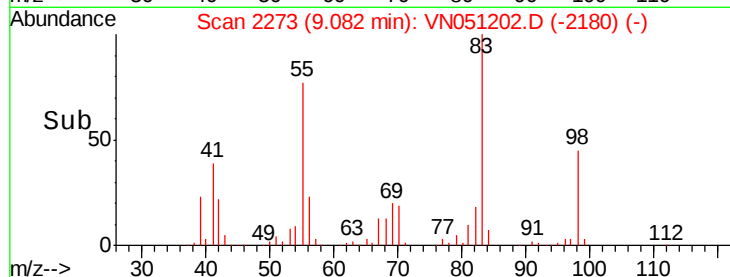
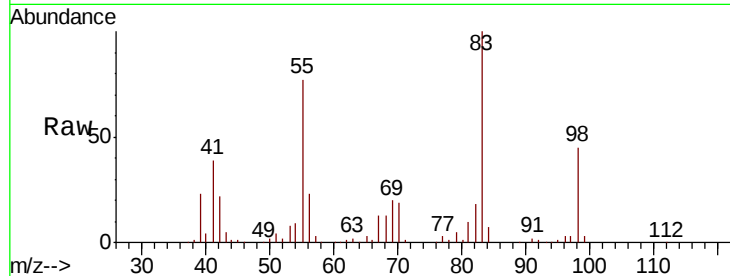
#39
Methvlcvclohexane
Concen: 16.97 ug/l
RT: 9.08 min Scan# 2273
Delta R.T. -0.00 min
Lab File: VN051202.D
Acq: 14 Sep 2018 20:55

Instrument :
MSVOA_N
ClientSampled :
VN0914WBSD03

Tot Ion	Ratio	Lower	Upper
83	100		
55	76.9	58.4	87.6
98	44.7	37.3	55.9

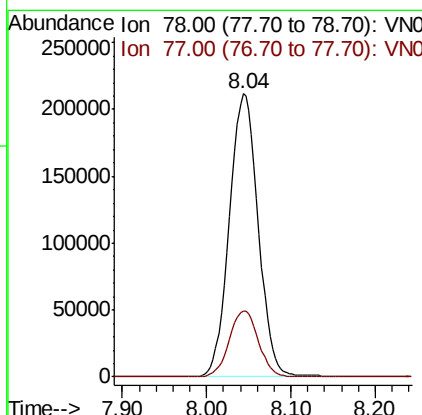
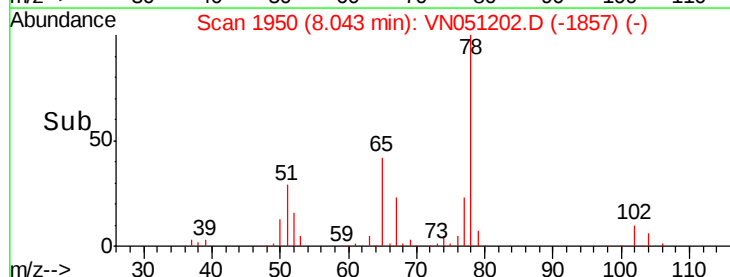
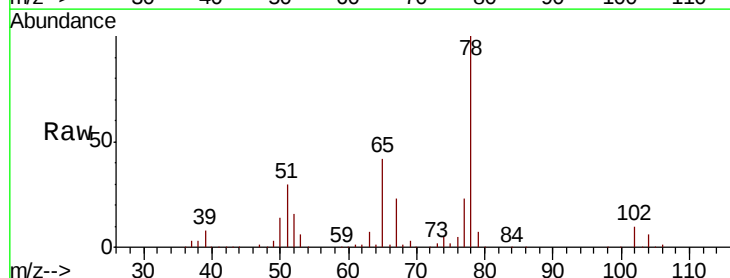
Manual Integrations
APPROVED

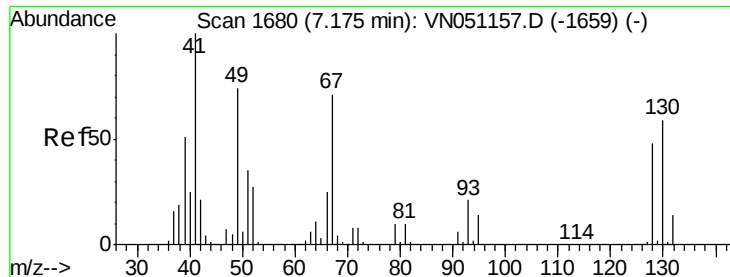
MMDadoda
9/17/2018 1:26:25 PM



#40
Benzene
Concen: 18.81 ug/l
RT: 8.04 min Scan# 1950
Delta R.T. -0.00 min
Lab File: VN051202.D
Acq: 14 Sep 2018 20:55

Tgt Ion	Ratio	Lower	Upper
78	100		
77	23.4	18.6	27.8





#41

Methacrylonitrile

Concen: 16.62 ug/l

RT: 7.18 min Scan# 1681

Delta R.T. 0.00 min

Lab File: VN051202.D

Acq: 14 Sep 2018 20:55

Instrument :

MSVOA_N

ClientSampleId :

VN0914WBSD03

Tot Ion: 41 Resp: 44199

Ion Ratio Lower Upper

41 100

39 57.7 51.3 76.9

67 91.4 78.5 117.7

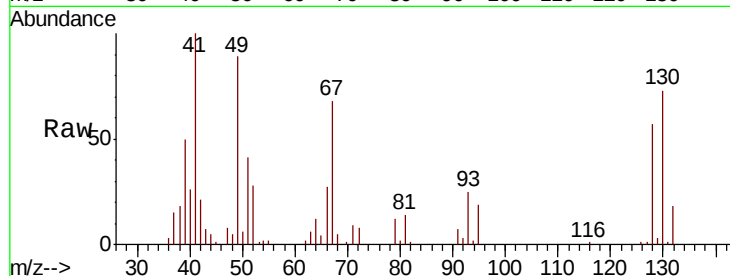
52 37.3 29.0 43.6

Manual Integrations

APPROVED

MMDadoda

9/17/2018 1:26:25 PM



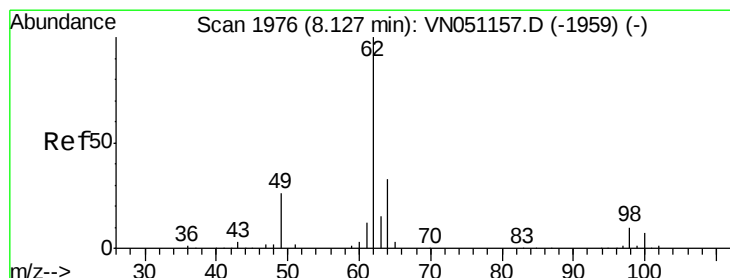
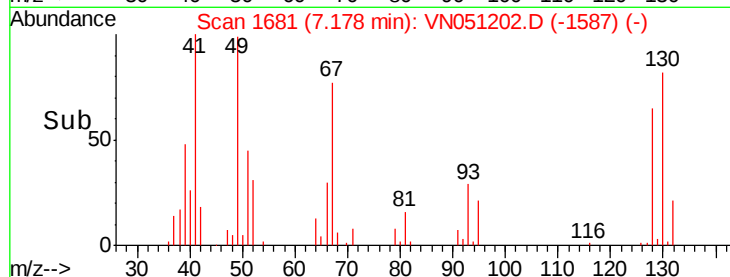
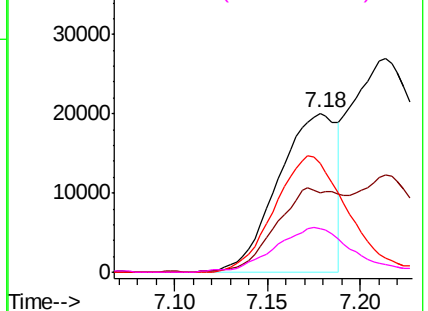
Abundance

Ion 41.00 (40.70 to 41.70): VNC

Ion 39.00 (38.70 to 39.70): VNC

Ion 67.00 (66.70 to 67.70): VNC

Ion 52.00 (51.70 to 52.70): VNC



#42

1,2-Dichloroethane

Concen: 19.26 ug/l

RT: 8.13 min Scan# 1976

Delta R.T. 0.00 min

Lab File: VN051202.D

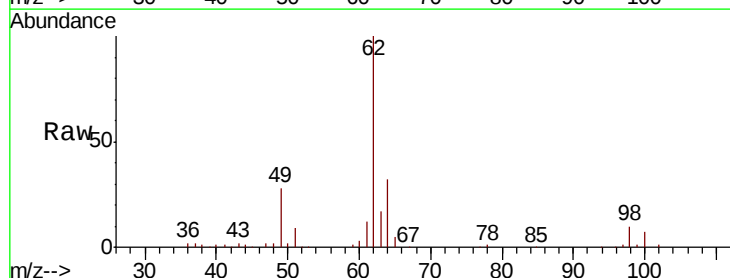
Acq: 14 Sep 2018 20:55

Tgt Ion: 62 Resp: 150504

Ion Ratio Lower Upper

62 100

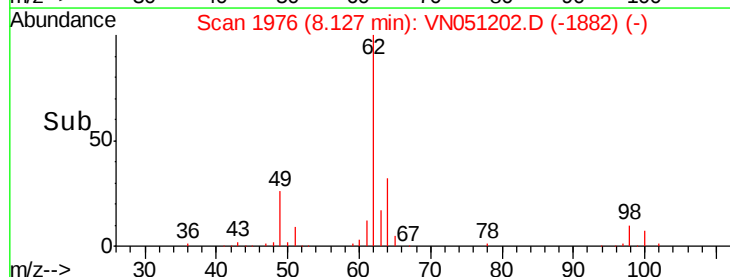
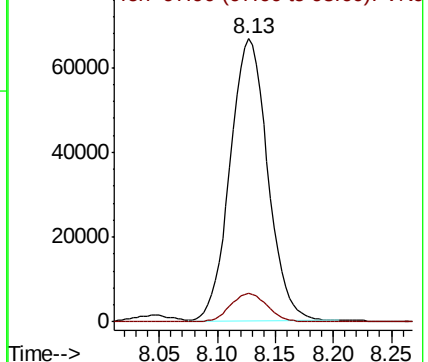
98 10.0 0.0 21.0

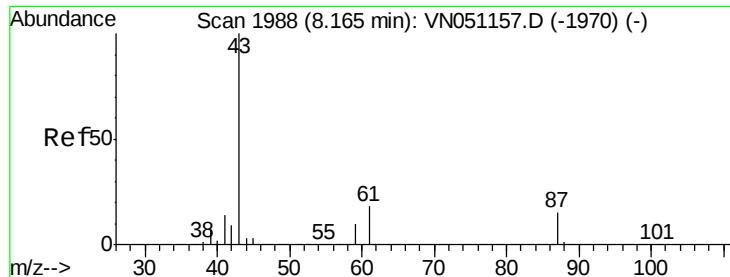


Abundance

Ion 61.90 (61.60 to 62.60): VNC

Ion 97.90 (97.60 to 98.60): VNC





#43

Isopropyl Acetate

Concen: 17.74 ug/l

RT: 8.17 min Scan# 1989

Delta R.T. 0.01 min

Lab File: VN051202.D

Acq: 14 Sep 2018 20:55

Instrument :

MSVOA_N

ClientSampleId :

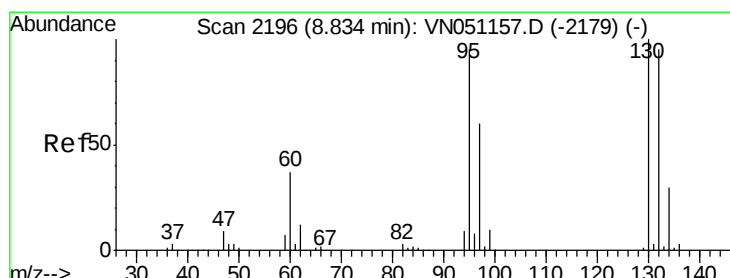
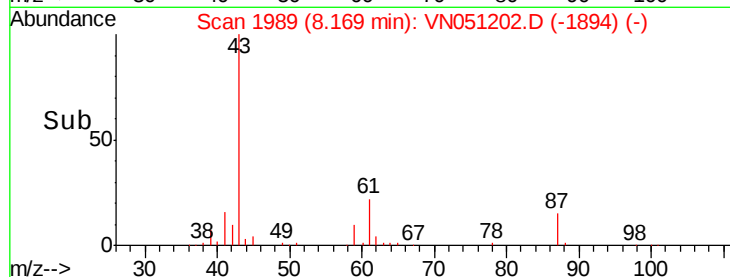
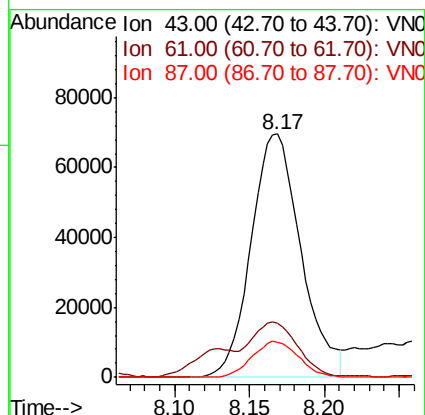
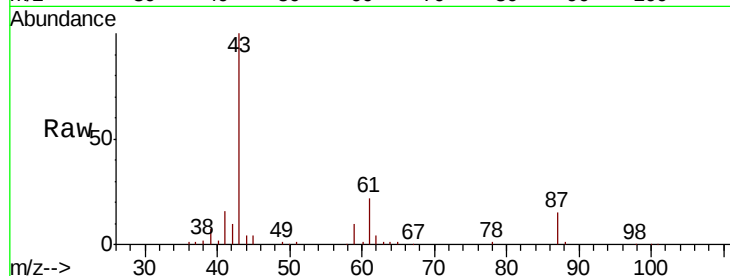
VN0914WBSD03

Tot Ion: 43 Resp: 161337

Ion	Ratio	Lower	Upper
43	100		
61	20.9	25.0	37.6#
87	13.8	11.8	17.8

Manual Integrations
APPROVED

MMDadoda
9/17/2018 1:26:25 PM



#44

Trichloroethene

Concen: 18.21 ug/l

RT: 8.84 min Scan# 2197

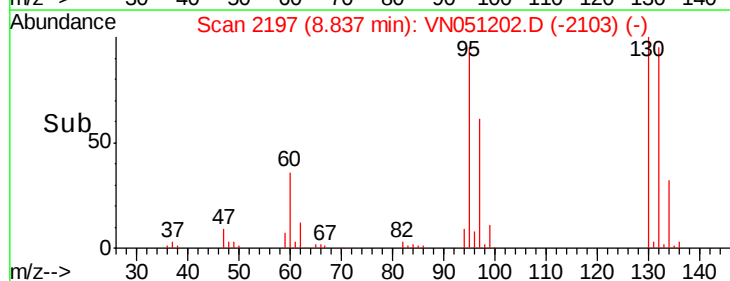
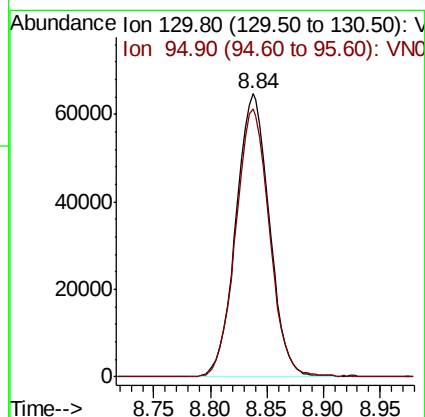
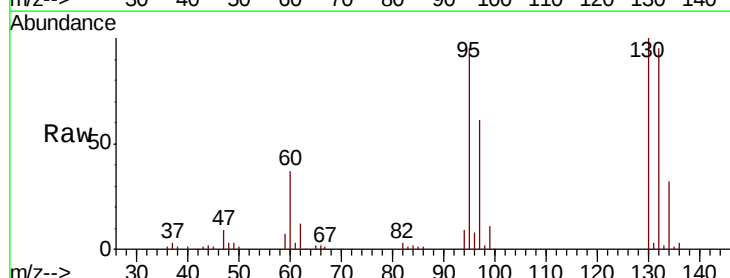
Delta R.T. 0.00 min

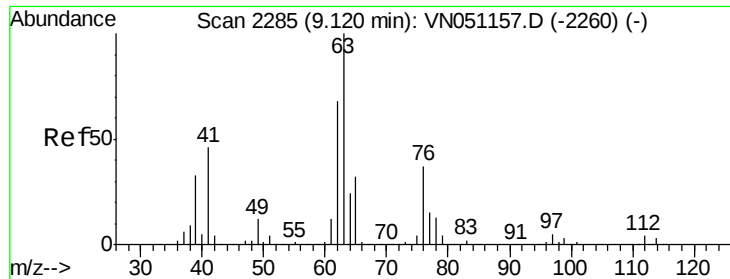
Lab File: VN051202.D

Acq: 14 Sep 2018 20:55

Tgt Ion: 130 Resp: 133514

Ion	Ratio	Lower	Upper
130	100		
95	94.7	0.0	186.2





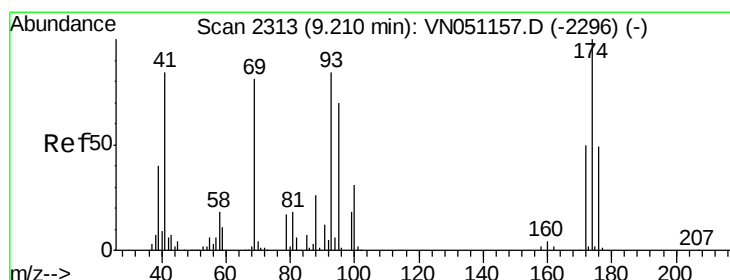
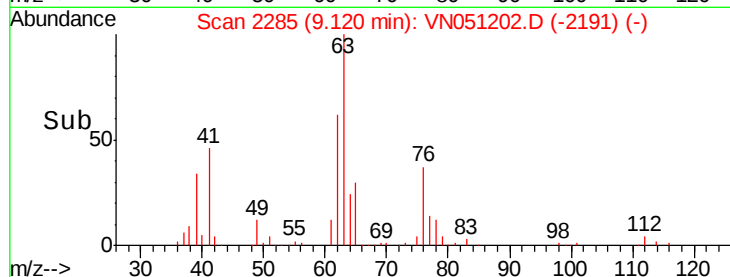
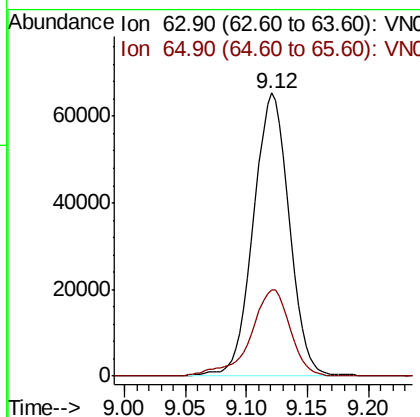
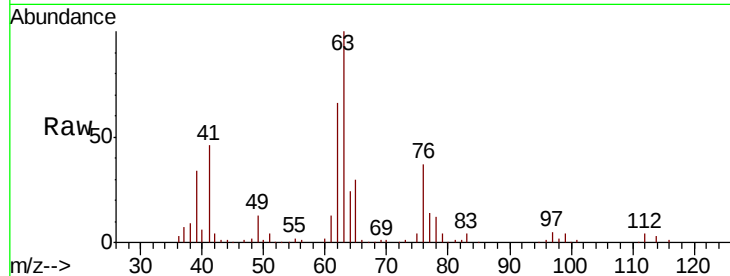
#45
 1,2-Dichloropropane
 Concen: 19.20 ug/l
 RT: 9.12 min Scan# 2285
 Delta R.T. 0.00 min
 Lab File: VN051202.D
 Acq: 14 Sep 2018 20:55

Instrument :
 MSVOA_N
 ClientSampleId :
 VN0914WBSD03

Tot Ion: 63 Resp: 133023
 Ion Ratio Lower Upper
 63 100
 65 30.2 24.7 37.1

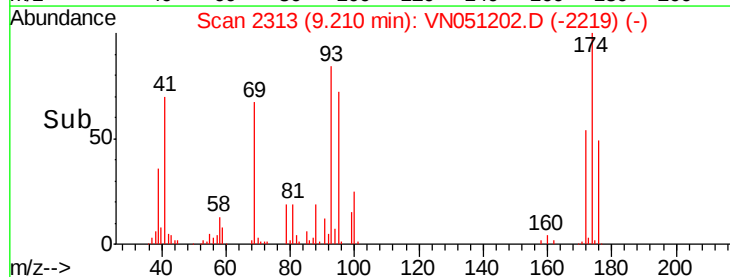
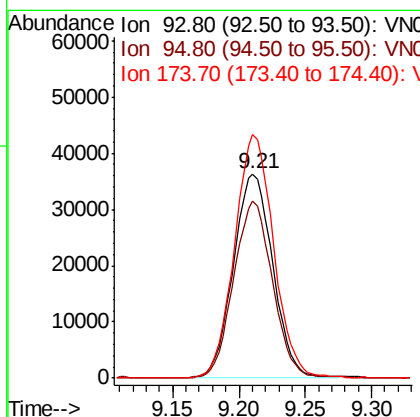
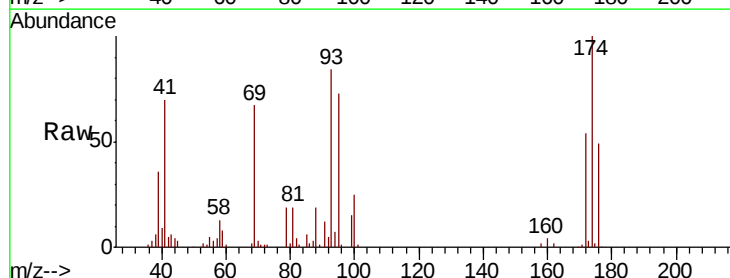
Manual Integrations
 APPROVED

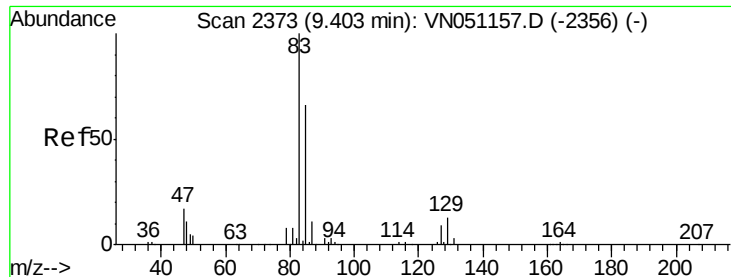
MMDadoda
 9/17/2018 1:26:25 PM



#46
 Dibromomethane
 Concen: 17.77 ug/l
 RT: 9.21 min Scan# 2313
 Delta R.T. 0.00 min
 Lab File: VN051202.D
 Acq: 14 Sep 2018 20:55

Tgt Ion: 93 Resp: 75099
 Ion Ratio Lower Upper
 93 100
 95 85.6 66.8 100.2
 174 118.2 93.3 139.9





#47

Bromodichloromethane

Concen: 19.69 ug/l

RT: 9.40 min Scan# 2373

Delta R.T. -0.00 min

Lab File: VN051202.D

Acq: 14 Sep 2018 20:55

Instrument :

MSVOA_N

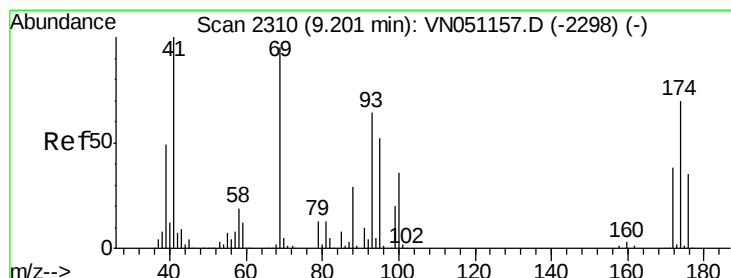
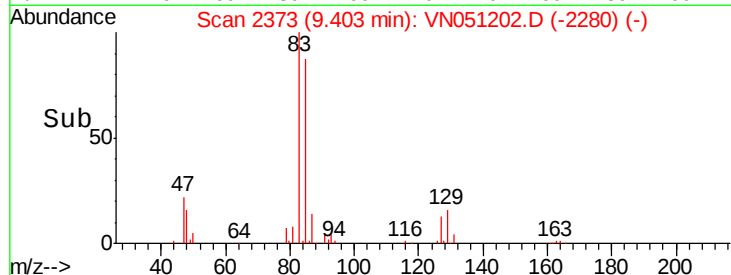
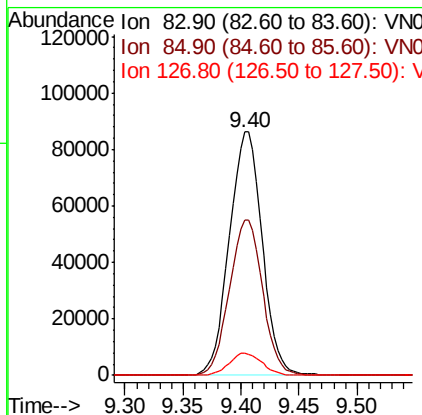
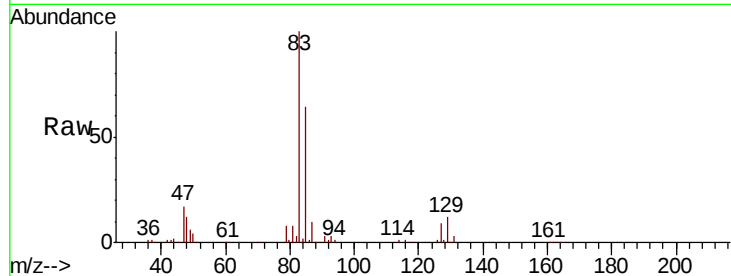
ClientSampleId :

VN0914WBSD03

Tot Ion:	83	Resp:	169231
Ion	Ratio	Lower	Upper
83	100		
85	63.8	52.3	78.5
127	9.3	7.5	11.3

Manual Integrations
APPROVED

MMDadoda
9/17/2018 1:26:25 PM



#48

Methyl methacrylate

Concen: 16.03 ug/l

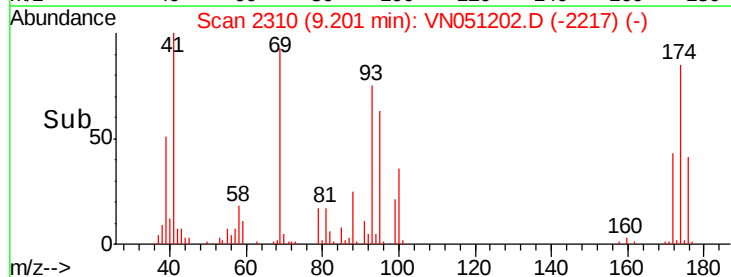
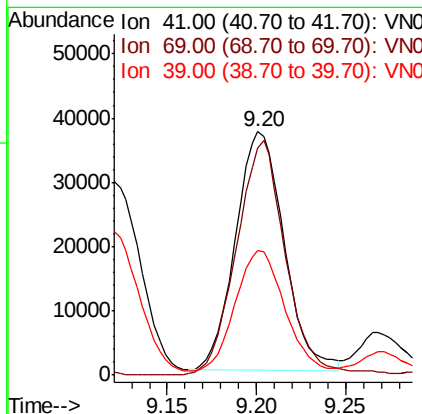
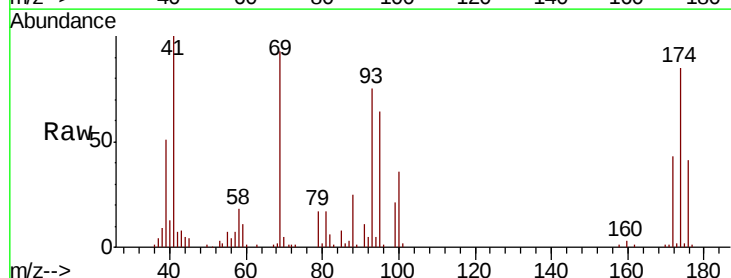
RT: 9.20 min Scan# 2310

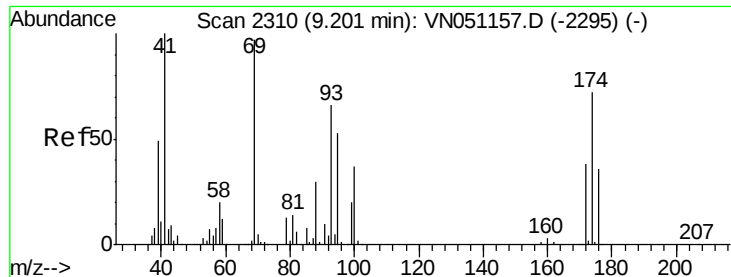
Delta R.T. -0.00 min

Lab File: VN051202.D

Acq: 14 Sep 2018 20:55

Tgt Ion:	41	Resp:	71046
Ion	Ratio	Lower	Upper
41	100		
69	99.0	77.7	116.5
39	54.5	41.6	62.4





#49

1,4-Dioxane

Concen: 291.92 ug/l

RT: 9.20 min Scan# 2310

Delta R.T. 0.00 min

Lab File: VN051202.D

Acq: 14 Sep 2018 20:55

Instrument :

MSVOA_N

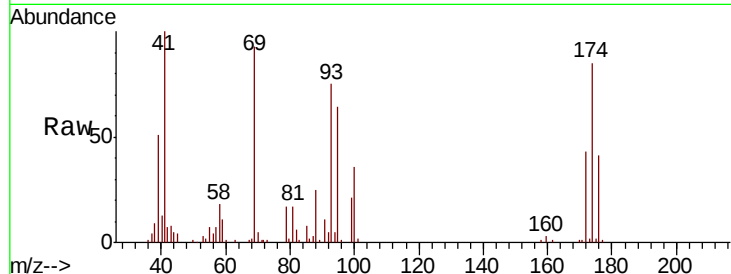
ClientSampleId :

VN0914WBSD03

Tot Ion:	88	Resp:	20285
Ion Ratio	Lower	Upper	
88	100		
43	29.1	23.7	35.5
58	71.9	54.6	82.0

Manual Integrations
APPROVED

MMDadoda
9/17/2018 1:26:25 PM

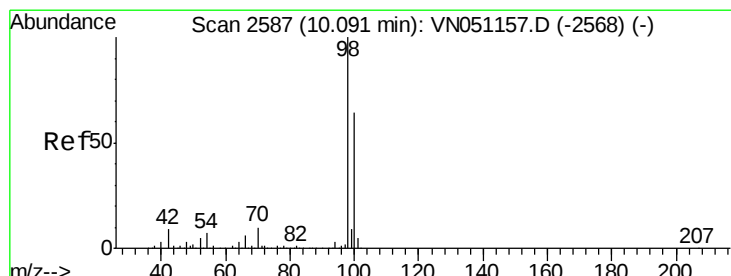
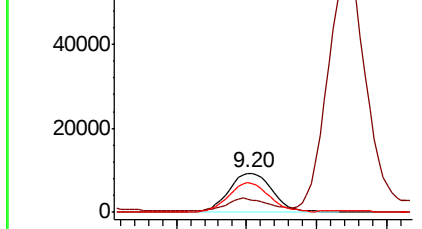
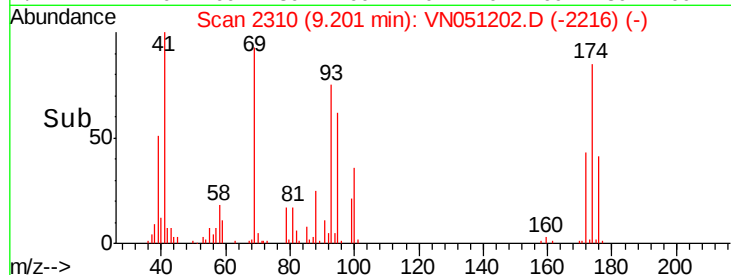


Abundance Ion 88.00 (87.70 to 88.70): VN051157.D (-2295) (-)

Ion 43.00 (42.70 to 43.70): VN051157.D (-2295) (-)

Ion 58.00 (57.70 to 58.70): VN051157.D (-2295) (-)

Time-->



#50

Toluene-d8

Concen: 47.36 ug/l

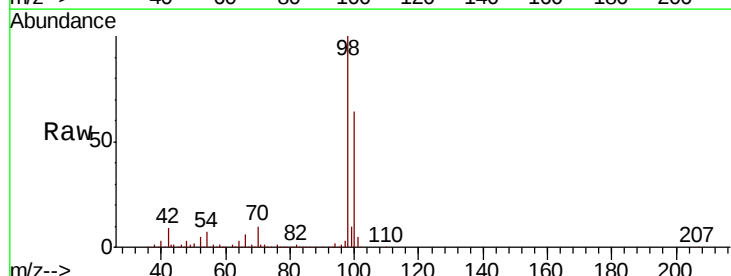
RT: 10.09 min Scan# 2587

Delta R.T. -0.00 min

Lab File: VN051202.D

Acq: 14 Sep 2018 20:55

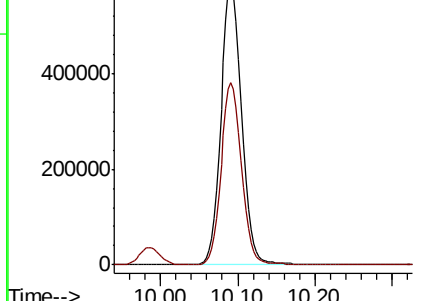
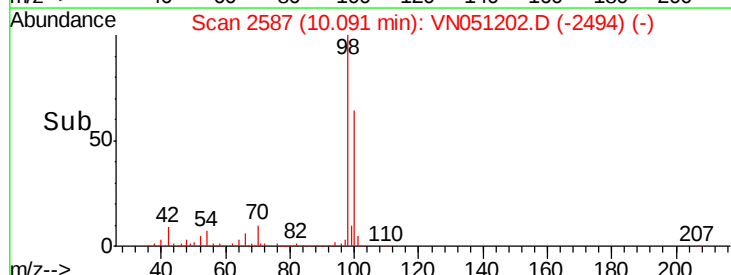
Tgt Ion:	98	Resp:	1094366
Ion Ratio	Lower	Upper	
98	100		
100	63.7	52.0	78.0

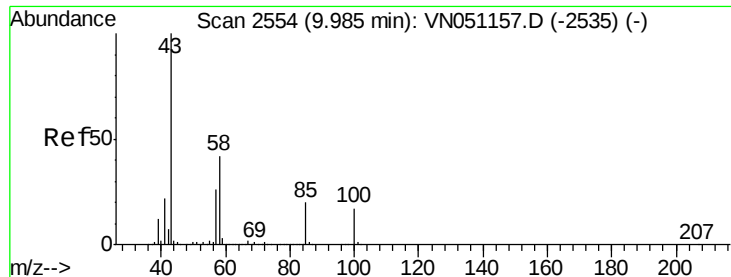


Abundance Ion 98.00 (97.70 to 98.70): VN051157.D (-2568) (-)

Ion 100.00 (99.70 to 100.70): VN051157.D (-2568) (-)

Time-->





#51

4-Methyl-2-Pentanone

Concen: 81.34 ug/l

RT: 9.99 min Scan# 2554

Delta R.T. -0.00 min

Lab File: VN051202.D

Acq: 14 Sep 2018 20:55

Instrument :

MSVOA_N

ClientSampleId :

VN0914WBSD03

Tot Ion: 43 Resp: 409015

Ion Ratio Lower Upper

43 100

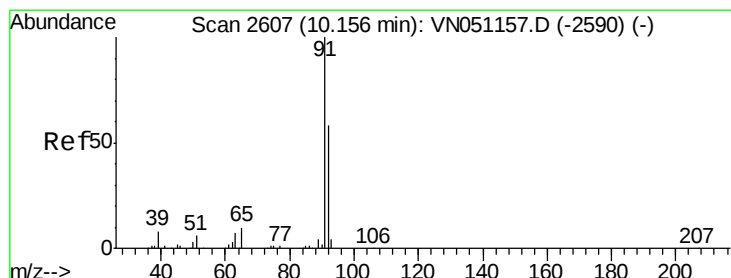
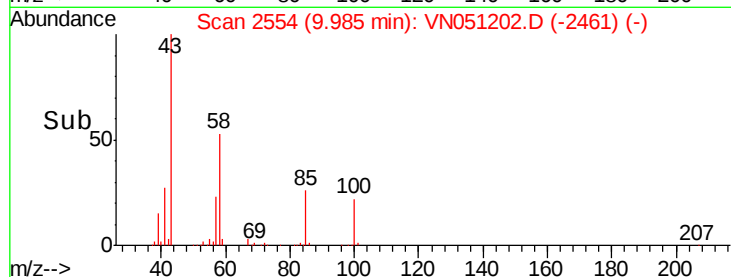
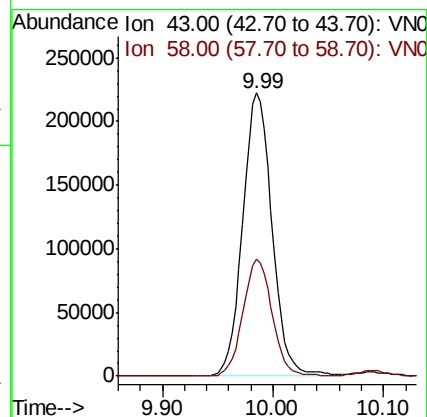
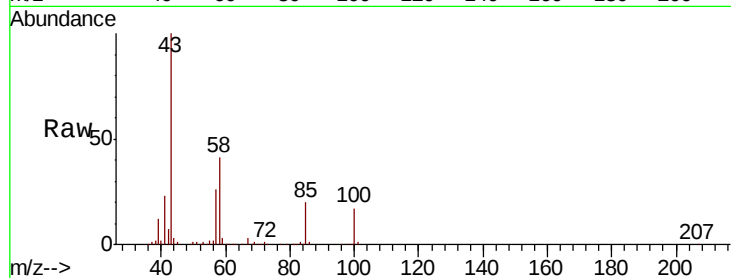
58 41.1 33.5 50.3

Manual Integrations

APPROVED

MMDadoda

9/17/2018 1:26:25 PM



#52

Toluene

Concen: 18.60 ug/l

RT: 10.16 min Scan# 2607

Delta R.T. -0.00 min

Lab File: VN051202.D

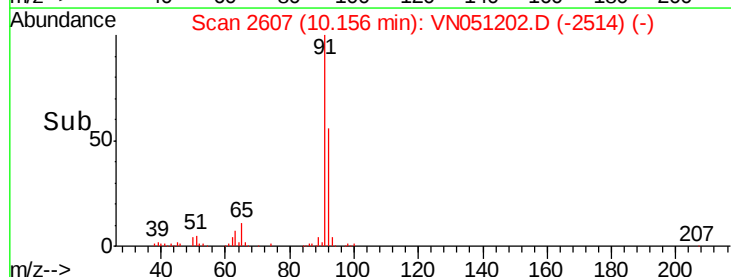
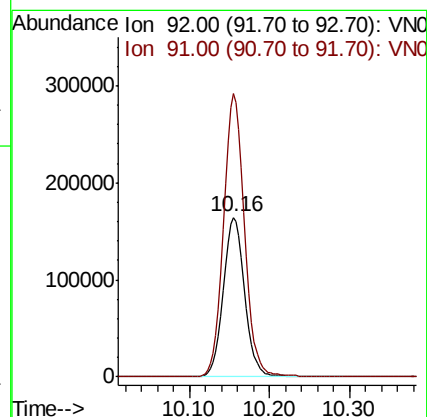
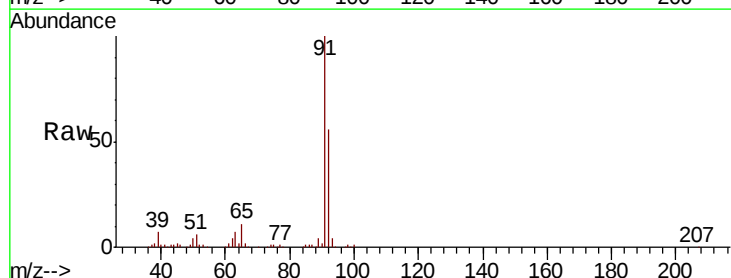
Acq: 14 Sep 2018 20:55

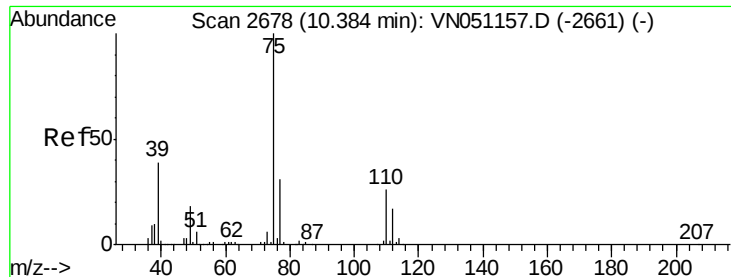
Tgt Ion: 92 Resp: 304095

Ion Ratio Lower Upper

92 100

91 174.7 139.5 209.3





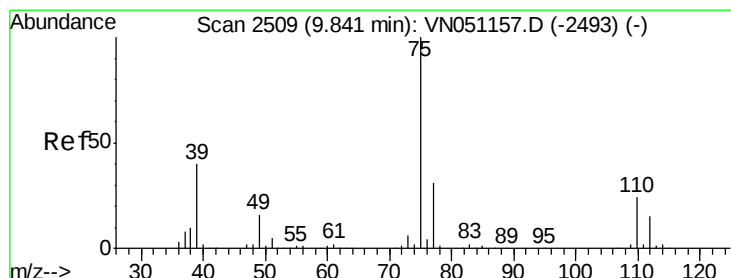
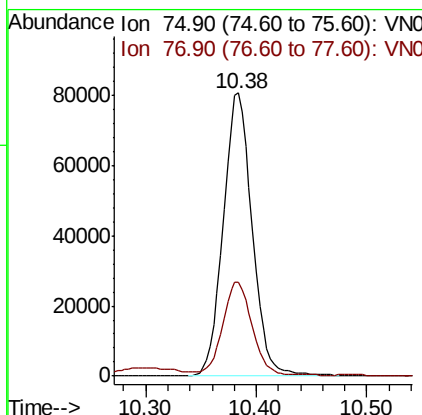
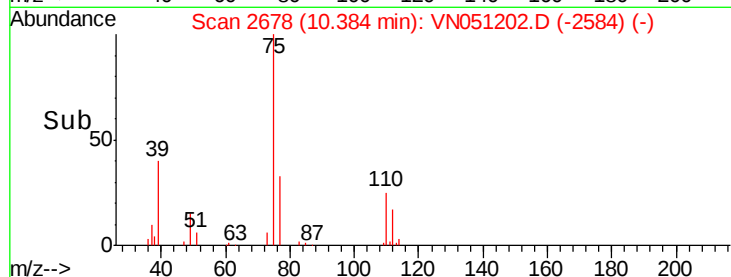
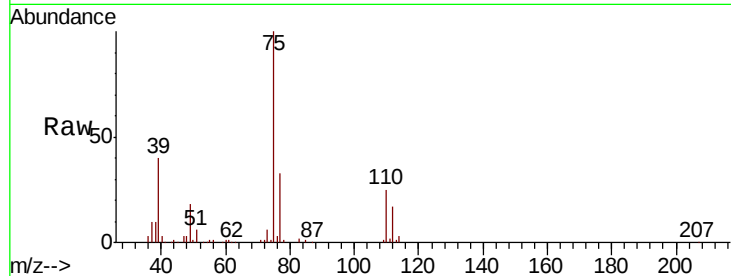
#53
t-1,3-Dichloropropene
Concen: 17.08 ug/l
RT: 10.38 min Scan# 2678
Delta R.T. 0.00 min
Lab File: VN051202.D
Acq: 14 Sep 2018 20:55

Instrument :
MSVOA_N
ClientSampleId :
VN0914WBSD03

Tot Ion: 75 Resp: 146959
Ion Ratio Lower Upper
75 100
77 32.5 25.3 37.9

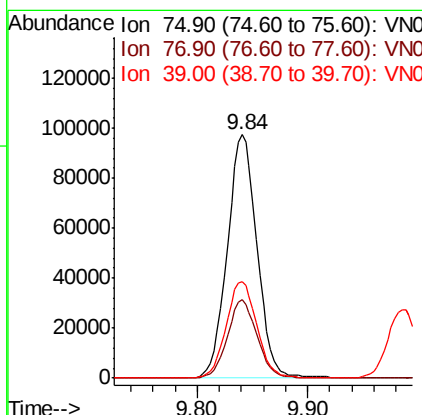
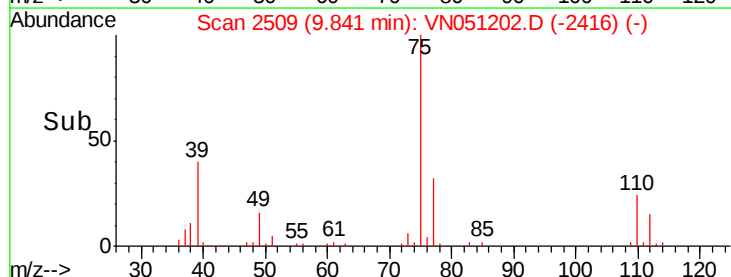
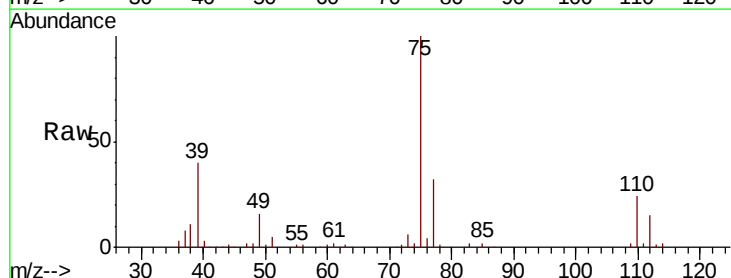
Manual Integrations
APPROVED

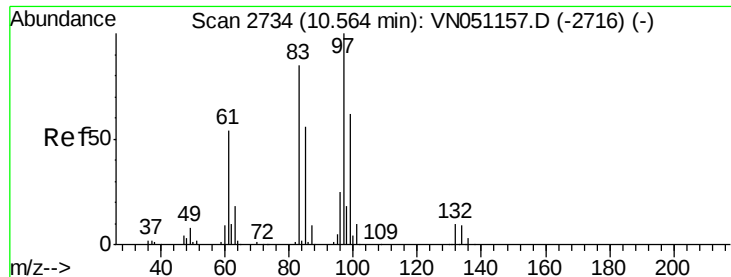
MMDadoda
9/17/2018 1:26:25 PM



#54
cis-1,3-Dichloropropene
Concen: 18.03 ug/l
RT: 9.84 min Scan# 2509
Delta R.T. -0.00 min
Lab File: VN051202.D
Acq: 14 Sep 2018 20:55

Tgt Ion: 75 Resp: 181885
Ion Ratio Lower Upper
75 100
77 32.0 25.7 38.5
39 39.7 31.9 47.9





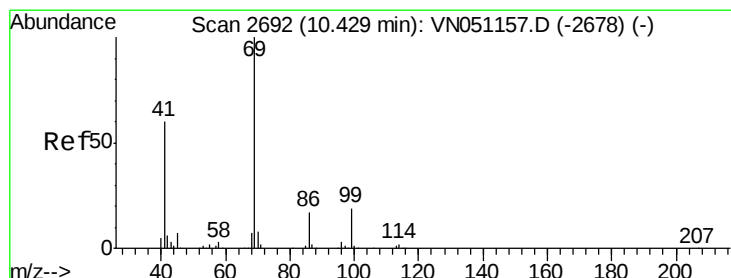
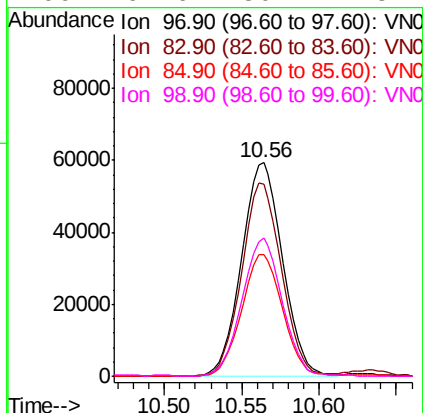
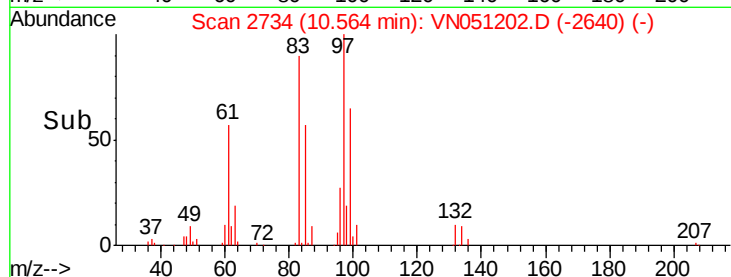
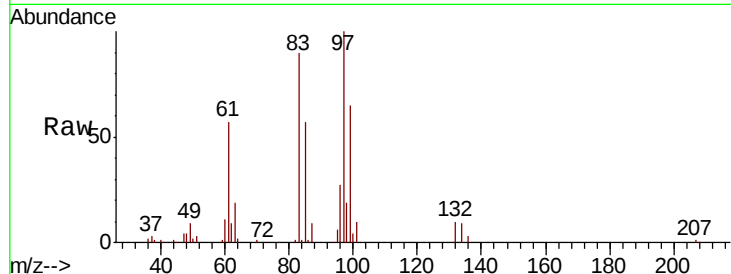
#55
 1,1,2-Trichloroethane
 Concen: 18.41 ug/l
 RT: 10.56 min Scan# 2734
 Delta R.T. 0.00 min
 Lab File: VN051202.D
 Acq: 14 Sep 2018 20:55

Instrument :
 MSVOA_N
 ClientSampleId :
 VN0914WBSD03

Tot Ion:	97	Resp:	109324
Ion	Ratio	Lower	Upper
97	100		
83	90.0	68.2	102.2
85	56.9	44.8	67.2
99	64.6	50.2	75.4

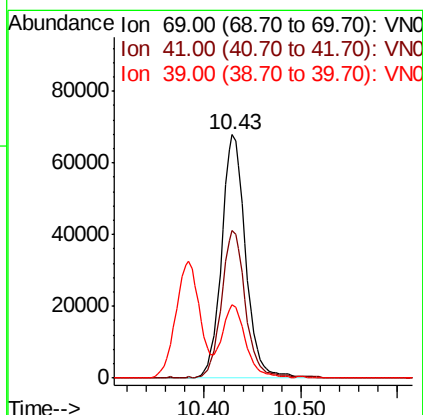
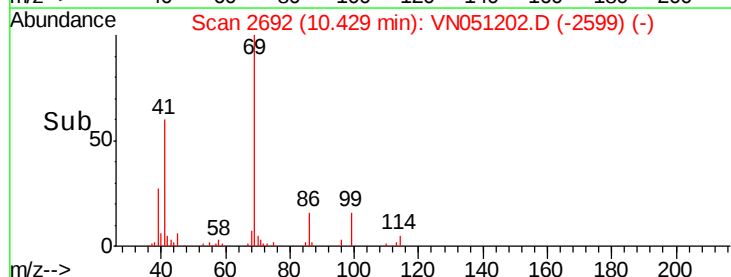
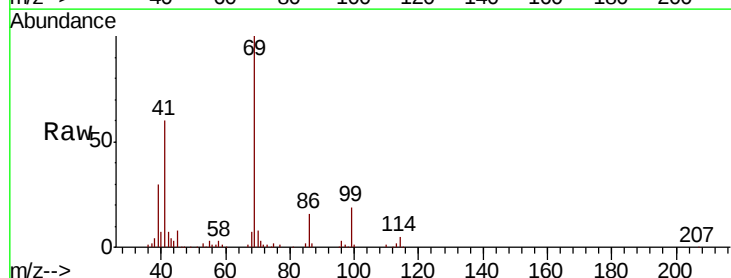
Manual Integrations
 APPROVED

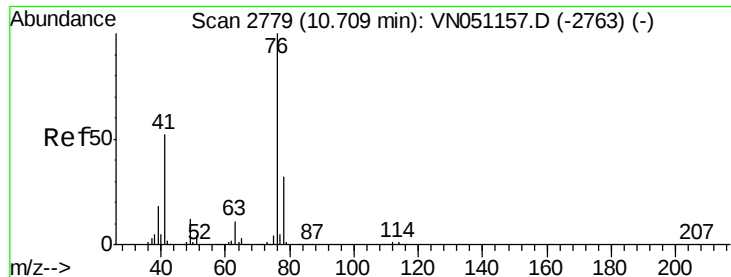
MMDadoda
 9/17/2018 1:26:25 PM



#56
 Ethyl methacrylate
 Concen: 16.41 ug/l
 RT: 10.43 min Scan# 2692
 Delta R.T. -0.00 min
 Lab File: VN051202.D
 Acq: 14 Sep 2018 20:55

Tgt Ion:	69	Resp:	116997
Ion	Ratio	Lower	Upper
69	100		
41	61.3	47.8	71.8
39	28.9	23.0	34.4





#57

1,3-Dichloropropane

Concen: 18.31 ug/l

RT: 10.71 min Scan# 2779

Delta R.T. 0.00 min

Lab File: VN051202.D

Acq: 14 Sep 2018 20:55

Instrument :

MSVOA_N

ClientSampleId :

VN0914WBSD03

Tot Ion: 76 Resp: 180307

Ion Ratio Lower Upper

76 100

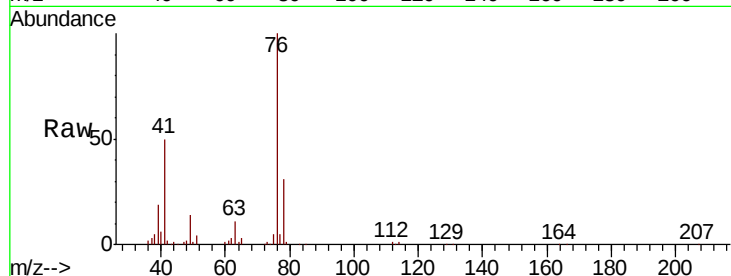
78 32.1 26.1 39.1

Manual Integrations

APPROVED

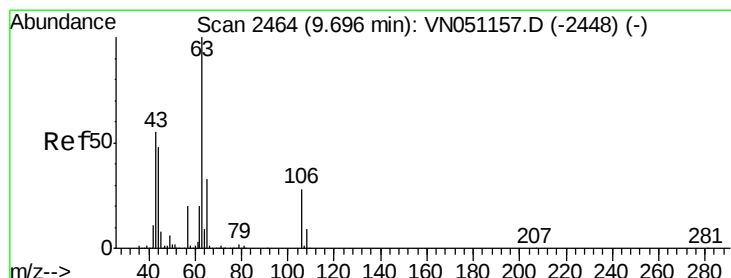
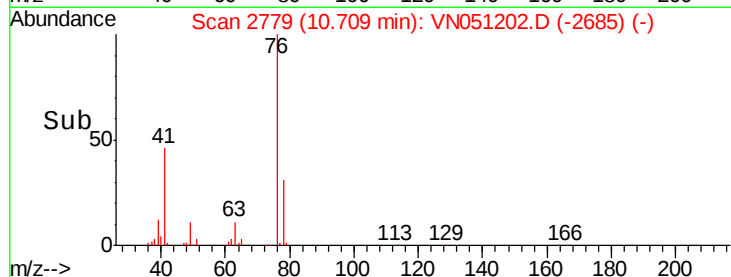
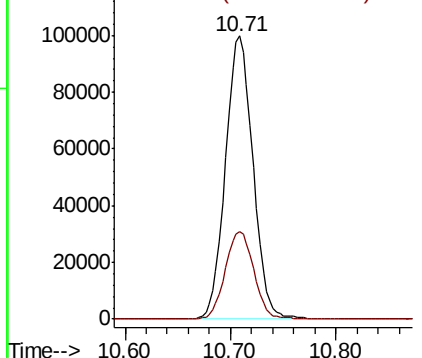
MMDadoda

9/17/2018 1:26:25 PM



Abundance Ion 75.90 (75.60 to 76.60): VN0

Ion 77.90 (77.60 to 78.60): VN0



#58

2-Chloroethyl Vinyl ether

Concen: 78.86 ug/l

RT: 9.70 min Scan# 2464

Delta R.T. 0.00 min

Lab File: VN051202.D

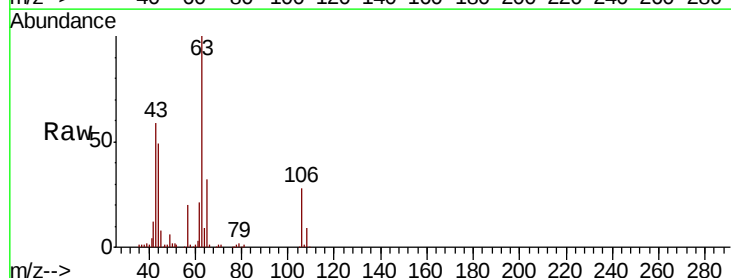
Acq: 14 Sep 2018 20:55

Tgt Ion: 63 Resp: 227022

Ion Ratio Lower Upper

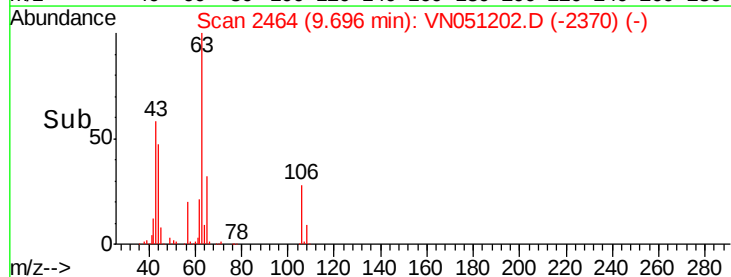
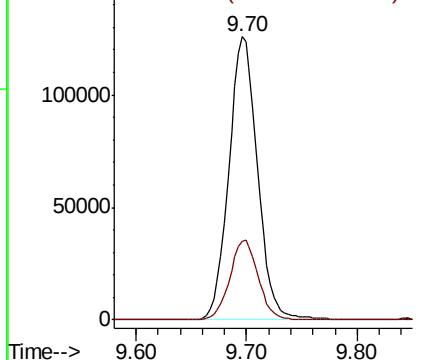
63 100

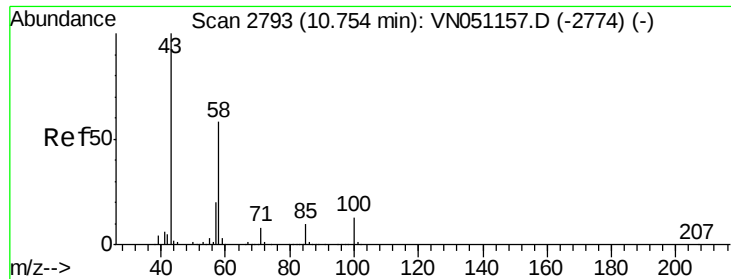
106 28.0 22.5 33.7



Abundance Ion 62.90 (62.60 to 63.60): VN0

Ion 105.90 (105.60 to 106.60): V





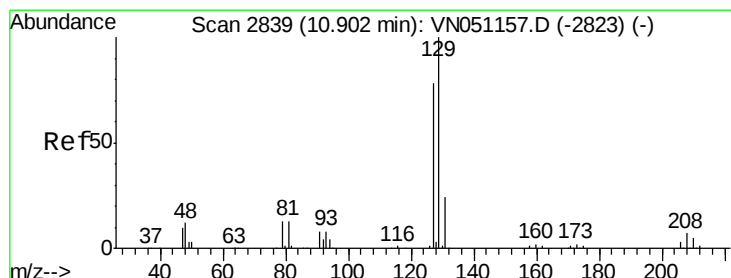
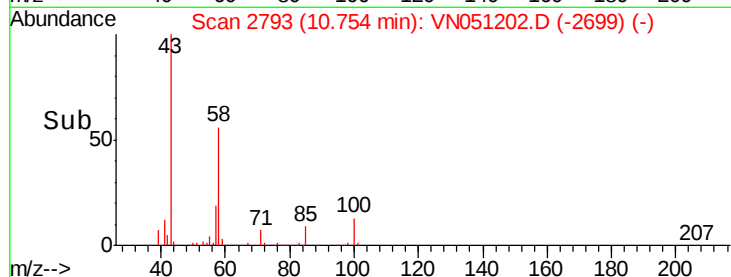
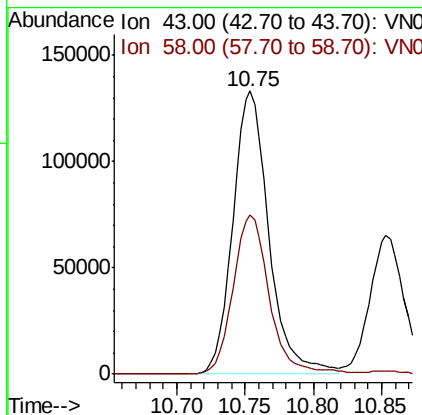
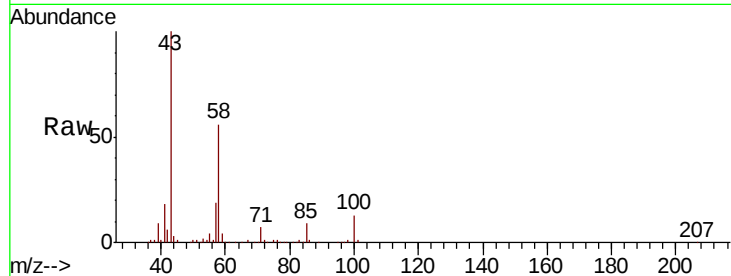
#59
2-Hexanone
Concen: 71.23 ug/l
RT: 10.75 min Scan# 2793
Delta R.T. 0.00 min
Lab File: VN051202.D
Acq: 14 Sep 2018 20:55

Instrument :
MSVOA_N
ClientSampleId :
VN0914WBSD03

Tot Ion	43	Resp	242901
Ion Ratio	100	Lower	Upper
43	100		
58	56.8	29.3	88.0

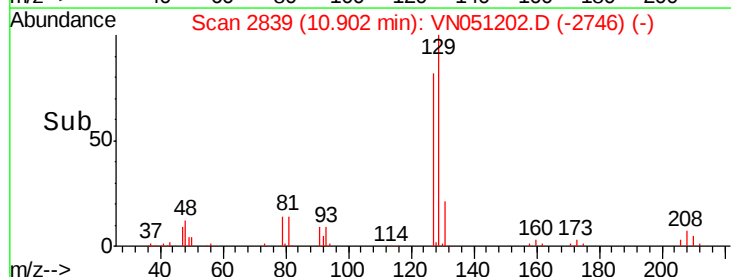
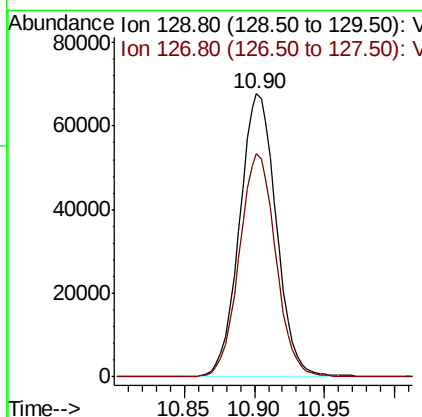
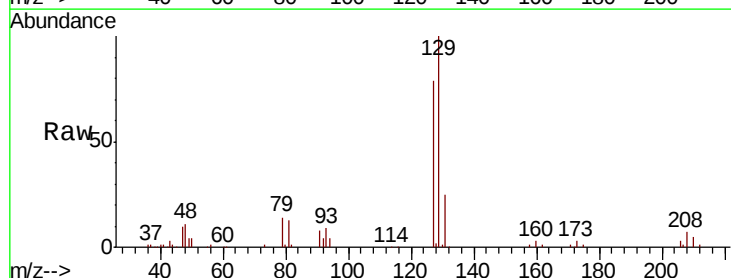
Manual Integrations
APPROVED

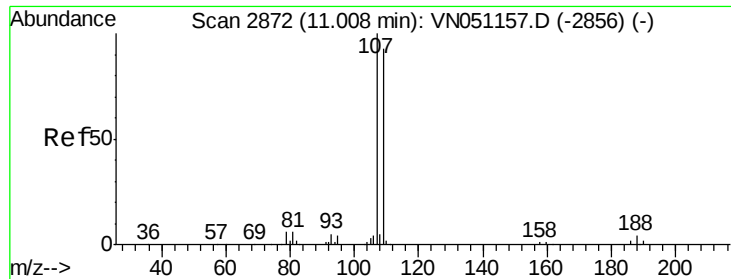
MMDadoda
9/17/2018 1:26:25 PM



#60
Dibromochloromethane
Concen: 18.45 ug/l
RT: 10.90 min Scan# 2839
Delta R.T. -0.00 min
Lab File: VN051202.D
Acq: 14 Sep 2018 20:55

Tgt Ion	129	Resp	123535
Ion Ratio	100	Lower	Upper
129	100		
127	78.2	38.5	115.5





#61

1,2-Dibromoethane

Concen: 17.68 ug/l

RT: 11.01 min Scan# 2872

Delta R.T. -0.00 min

Lab File: VN051202.D

Acq: 14 Sep 2018 20:55

Instrument :

MSVOA_N

ClientSampleId :

VN0914WBSD03

Tot Ion: 107 Resp: 102629

Ion Ratio Lower Upper

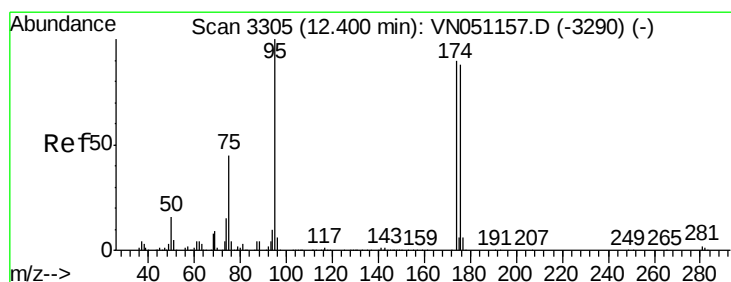
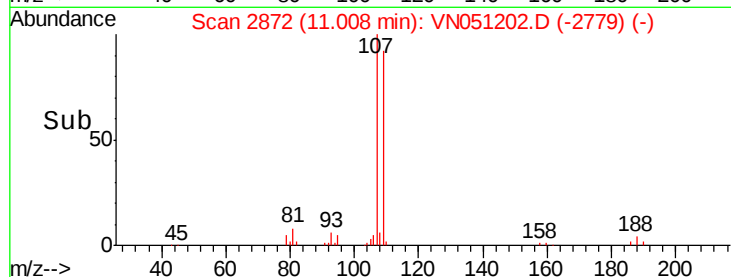
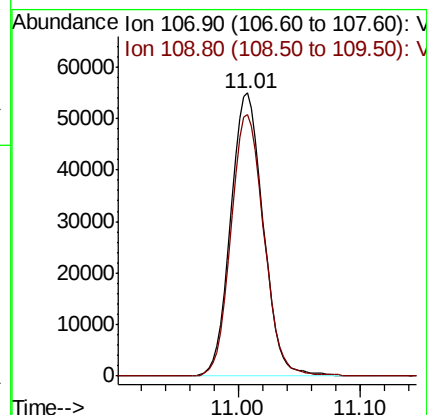
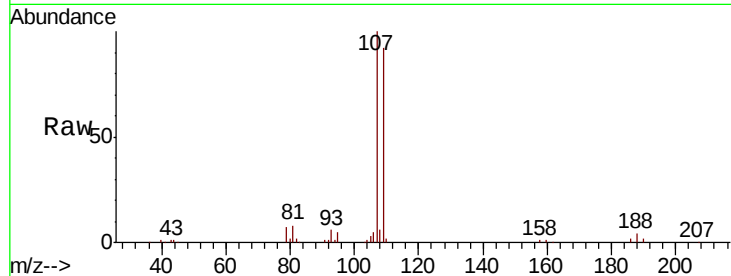
107 100

109 93.4 76.0 114.0

Manual Integrations
APPROVED

MMDadoda

9/17/2018 1:26:25 PM



#62

4-Bromofluorobenzene

Concen: 43.21 ug/l

RT: 12.40 min Scan# 3306

Delta R.T. 0.00 min

Lab File: VN051202.D

Acq: 14 Sep 2018 20:55

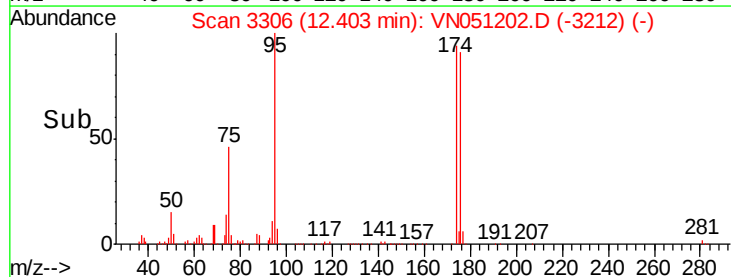
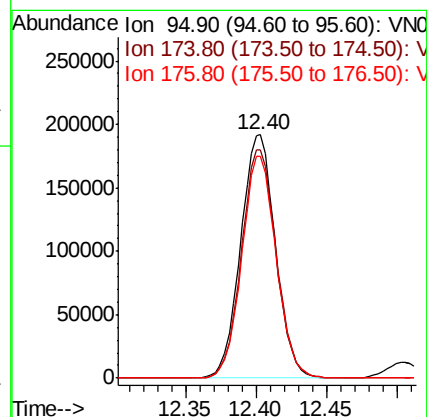
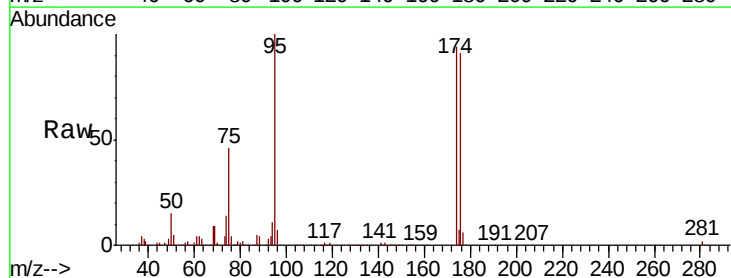
Tgt Ion: 95 Resp: 330312

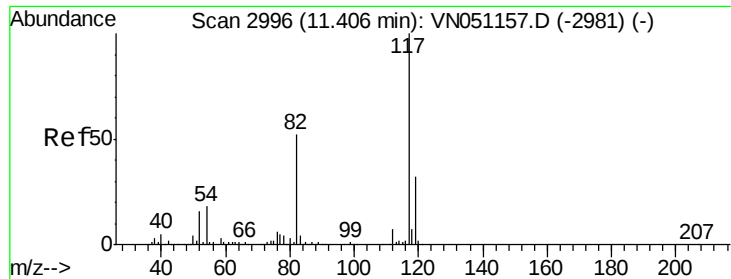
Ion Ratio Lower Upper

95 100

174 93.8 0.0 184.8

176 90.5 0.0 178.6





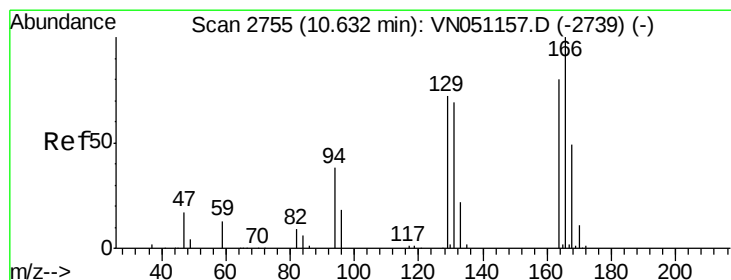
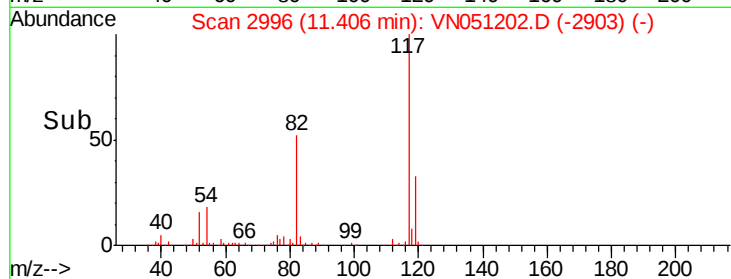
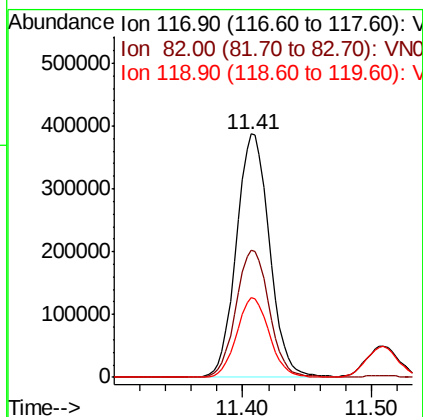
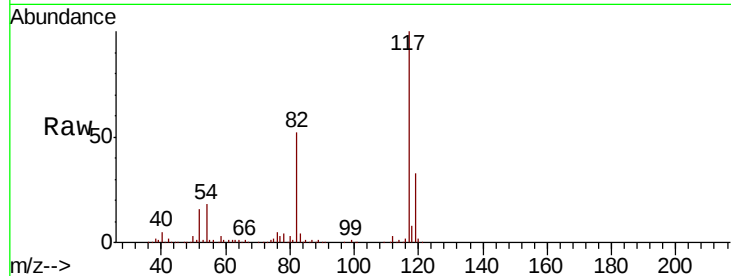
#63
Chlorobenzene-d5
Concen: 50.00 ug/l
RT: 11.41 min Scan# 2996
Delta R.T. -0.00 min
Lab File: VN051202.D
Acq: 14 Sep 2018 20:55

Instrument :
MSVOA_N
ClientSampleId :
VN0914WBSD03

Tot Ion	Ratio	Resp	Lower	Upper
117	100	692184		
82	52.4	41.8	62.6	
119	32.7	26.2	39.2	

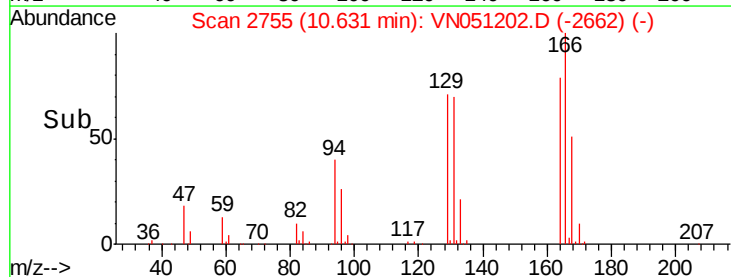
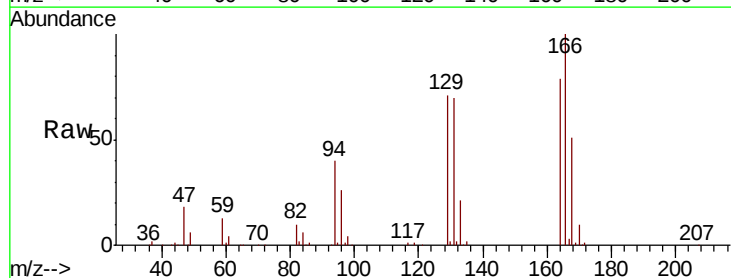
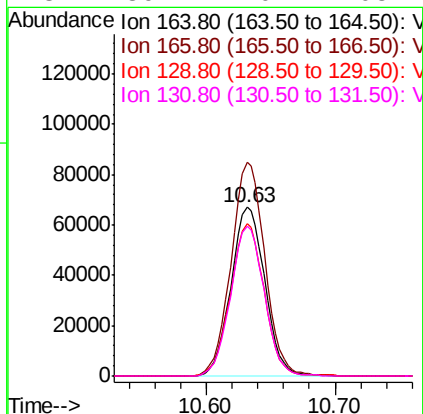
Manual Integrations
APPROVED

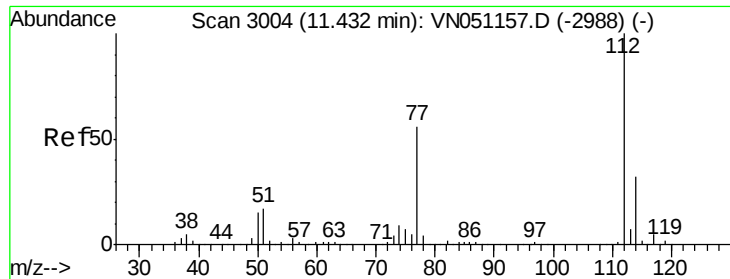
MMDadoda
9/17/2018 1:26:25 PM



#64
Tetrachloroethene
Concen: 19.35 ug/l
RT: 10.63 min Scan# 2755
Delta R.T. -0.00 min
Lab File: VN051202.D
Acq: 14 Sep 2018 20:55

Tgt Ion	Ratio	Resp	Lower	Upper
164	100	122223		
166	126.8	101.3	151.9	
129	90.4	72.2	108.2	
131	89.2	70.2	105.2	





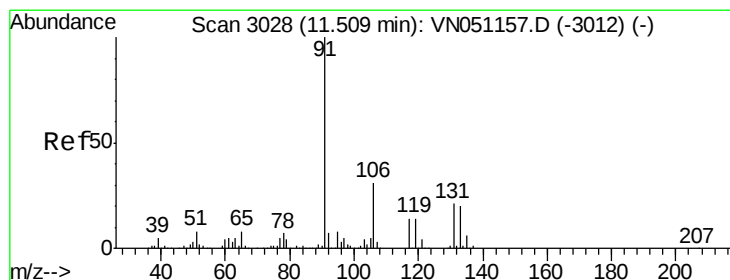
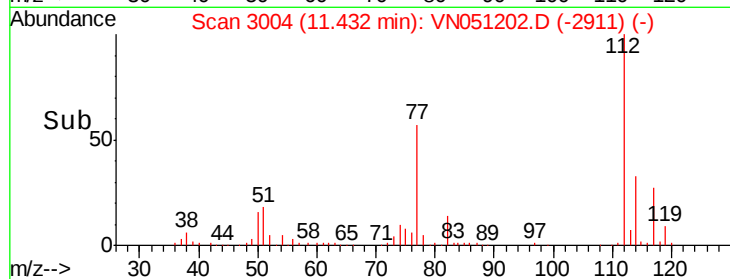
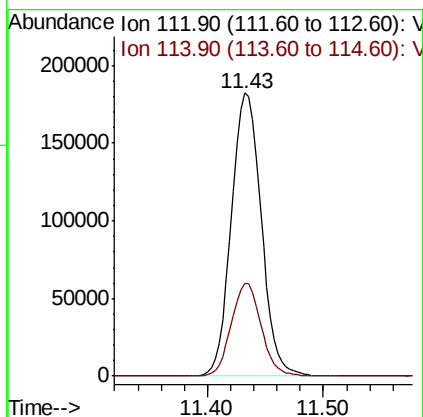
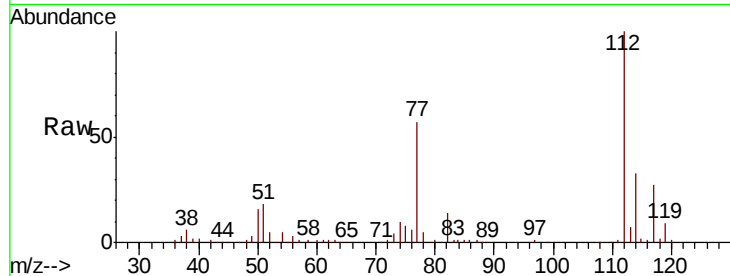
#65
Chlorobenzene
Concen: 18.72 ug/l
RT: 11.43 min Scan# 3004
Delta R.T. -0.00 min
Lab File: VN051202.D
Acq: 14 Sep 2018 20:55

Instrument :
MSVOA_N
ClientSampleId :
VN0914WBSD03

Tot Ion:112 Resp: 326621
Ion Ratio Lower Upper
112 100
114 32.8 25.8 38.6

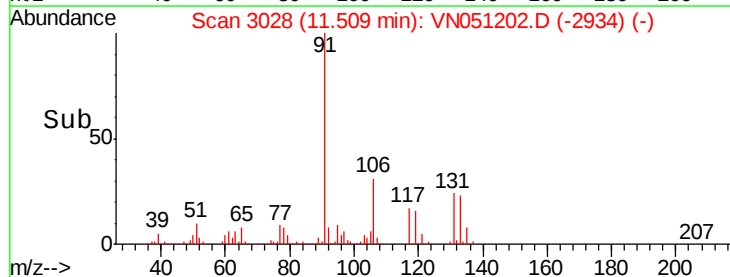
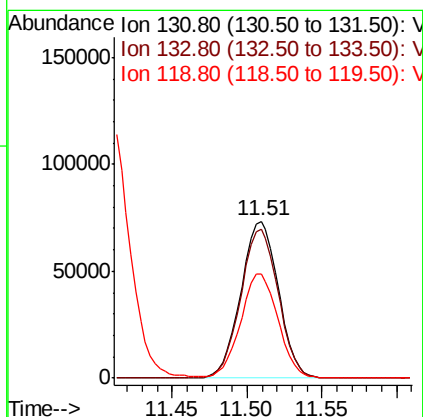
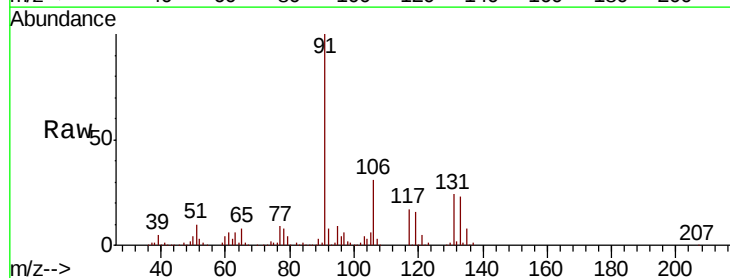
Manual Integrations
APPROVED

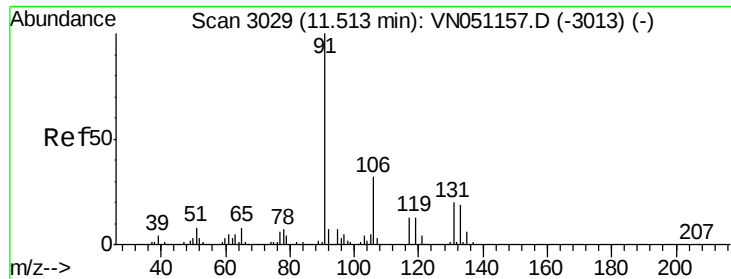
MMDadoda
9/17/2018 1:26:25 PM



#66
1,1,1,2-Tetrachloroethane
Concen: 20.42 ug/l
RT: 11.51 min Scan# 3028
Delta R.T. 0.00 min
Lab File: VN051202.D
Acq: 14 Sep 2018 20:55

Tgt Ion:131 Resp: 128307
Ion Ratio Lower Upper
131 100
133 95.4 47.5 142.6
119 66.5 33.2 99.6





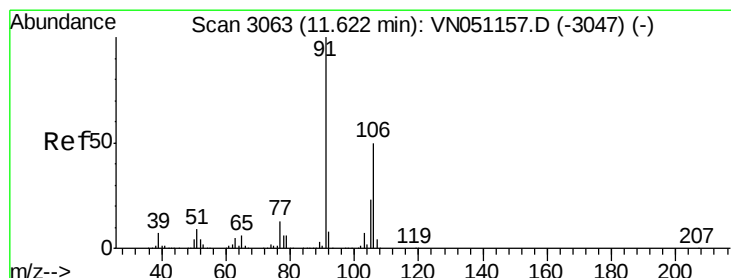
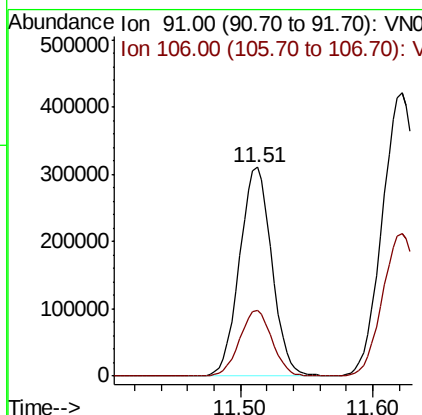
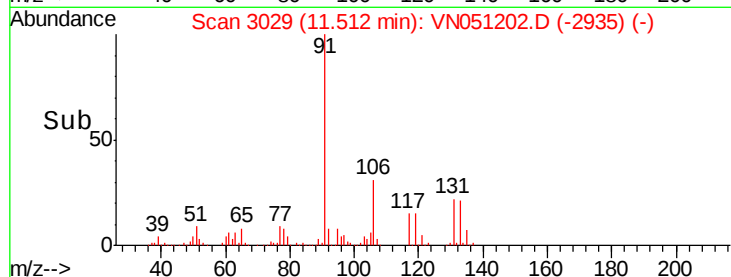
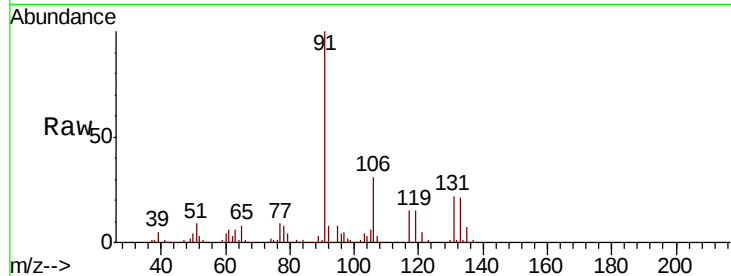
#67
Ethyl Benzene
Concen: 18.59 ug/l
RT: 11.51 min Scan# 3029
Delta R.T. 0.00 min
Lab File: VN051202.D
Acq: 14 Sep 2018 20:55

Instrument :
MSVOA_N
ClientSampleId :
VN0914WBSD03

Tot Ion: 91 Resp: 525408
Ion Ratio Lower Upper
91 100
106 31.3 25.4 38.2

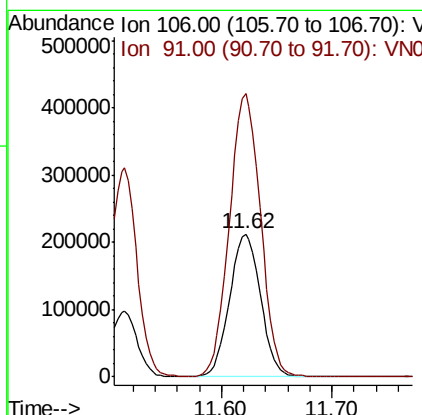
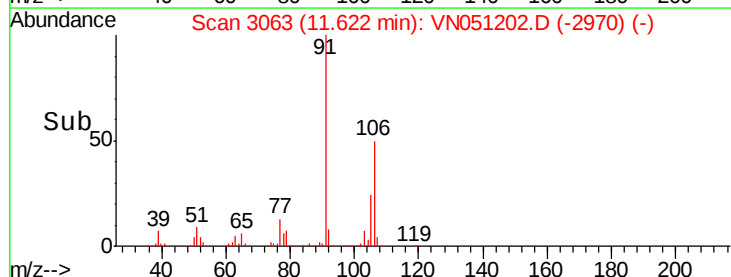
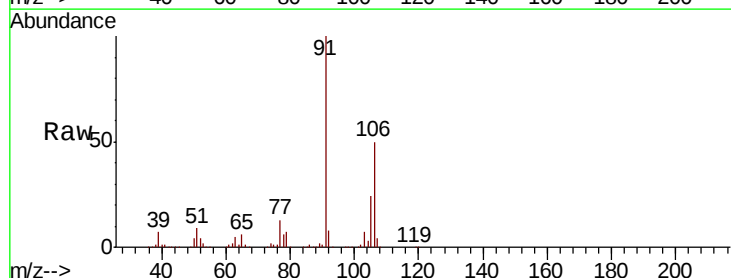
Manual Integrations
APPROVED

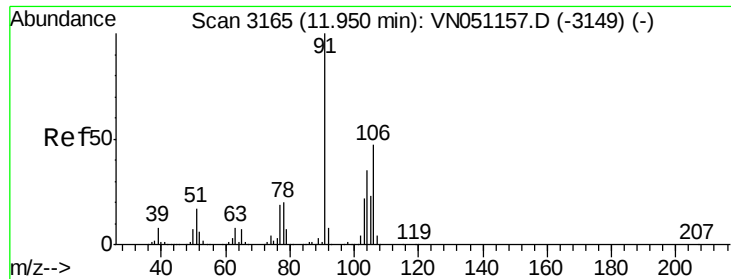
MMDadoda
9/17/2018 1:26:25 PM



#68
m/p-Xylenes
Concen: 38.13 ug/l
RT: 11.62 min Scan# 3063
Delta R.T. -0.00 min
Lab File: VN051202.D
Acq: 14 Sep 2018 20:55

Tgt Ion:106 Resp: 413960
Ion Ratio Lower Upper
106 100
91 199.0 159.8 239.6





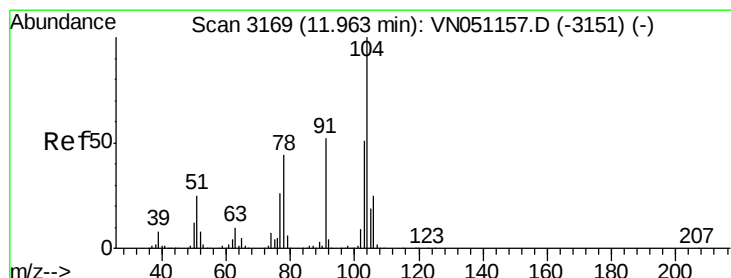
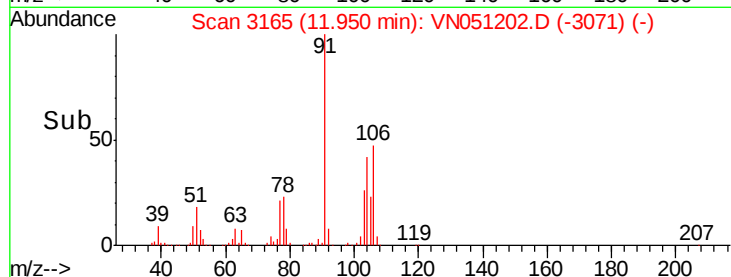
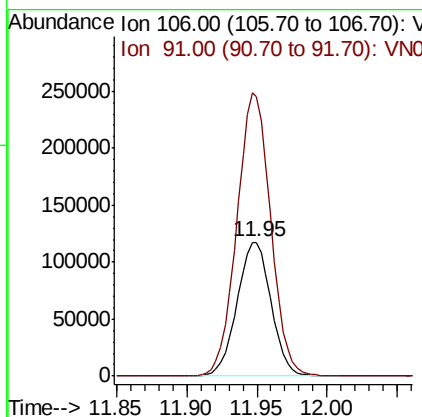
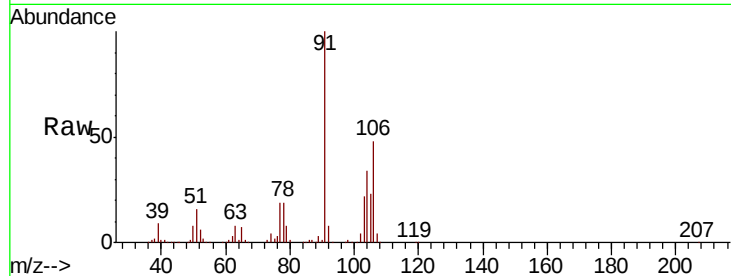
#69
o-Xylene
Concen: 18.88 ug/l
RT: 11.95 min Scan# 3165
Delta R.T. 0.00 min
Lab File: VN051202.D
Acq: 14 Sep 2018 20:55

Instrument :
MSVOA_N
ClientSampleId :
VN0914WBSD03

Tot Ion	Ion	Ratio	Resp	Lower	Upper
106	100		198479		
91	210.2	105.1	315.1		

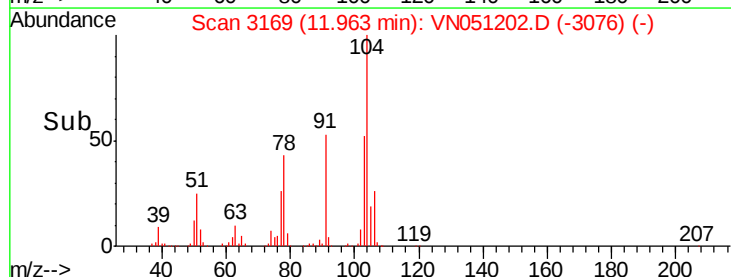
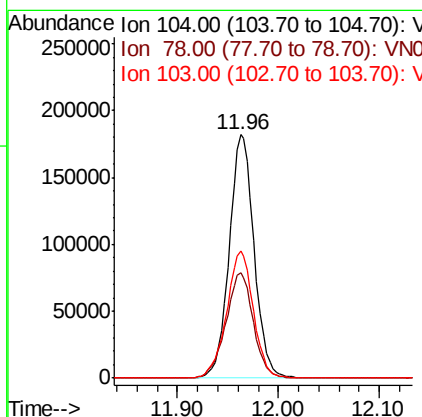
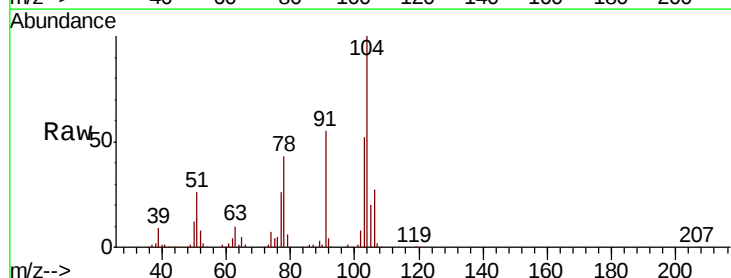
Manual Integrations
APPROVED

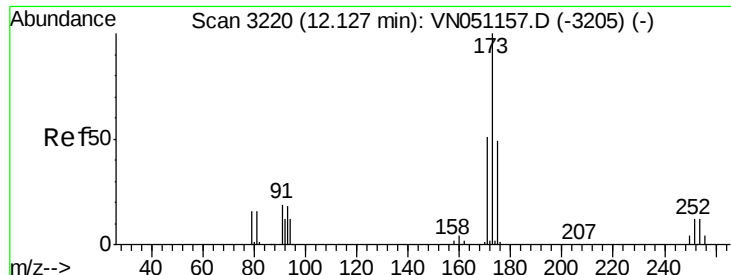
MMDadoda
9/17/2018 1:26:25 PM



#70
Styrene
Concen: 19.18 ug/l
RT: 11.96 min Scan# 3169
Delta R.T. -0.00 min
Lab File: VN051202.D
Acq: 14 Sep 2018 20:55

Tgt Ion	Ion	Ratio	Resp	Lower	Upper
104	100		312749		
78	47.9	37.7	56.5		
103	56.2	44.6	67.0		





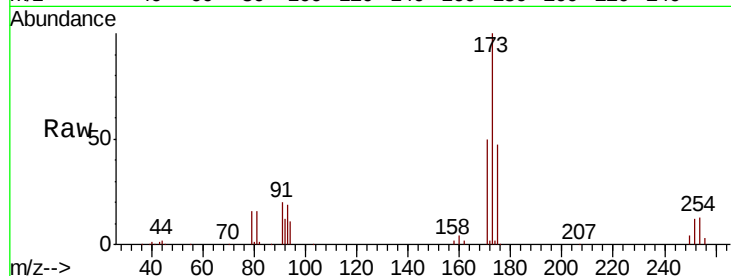
#71
Bromoform
Concen: 18.58 ug/l
RT: 12.13 min Scan# 3220
Delta R.T. -0.00 min
Lab File: VN051202.D
Acq: 14 Sep 2018 20:55

Instrument :
MSVOA_N
ClientSampleId :
VN0914WBSD03

Tot Ion	Ratio	Lower	Upper
173	100		
175	47.5	24.3	72.9
254	0.0	0.0	0.0

Manual Integrations
APPROVED

MMDadoda
9/17/2018 1:26:25 PM

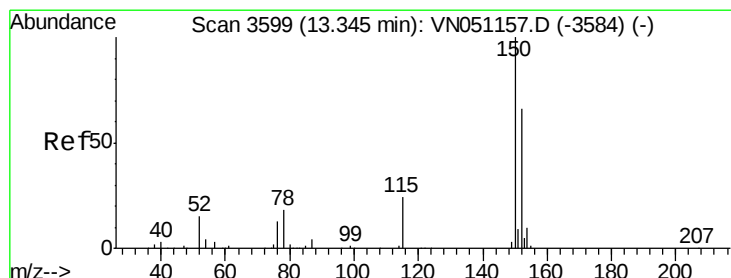
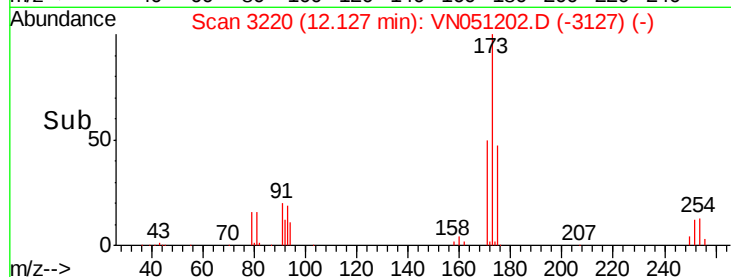
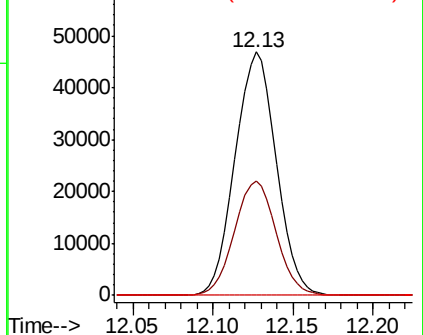


Abundance

Ion 172.70 (172.40 to 173.40): V

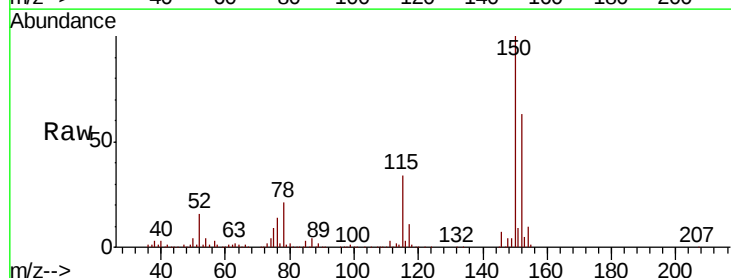
Ion 174.70 (174.40 to 175.40): V

Ion 254.40 (254.10 to 255.10): V



#72
1,4-Dichlorobenzene-d4
Concen: 50.00 ug/l
RT: 13.34 min Scan# 3598
Delta R.T. -0.00 min
Lab File: VN051202.D
Acq: 14 Sep 2018 20:55

Tgt Ion	Ratio	Lower	Upper
152	100		
115	55.3	28.2	84.7
150	165.0	0.0	349.0

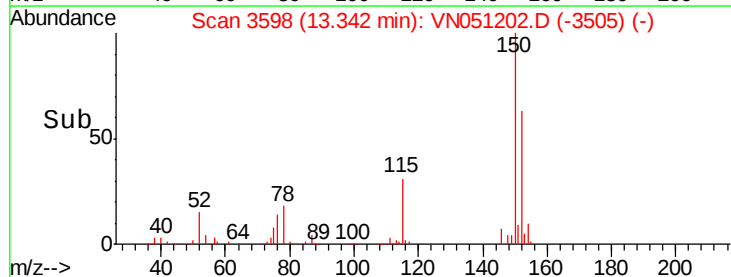
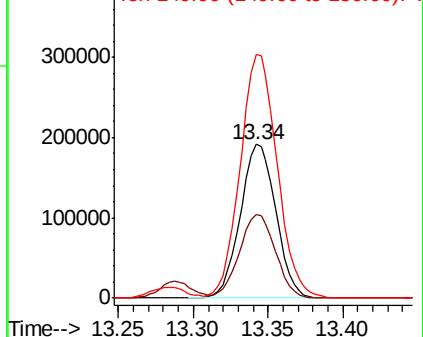


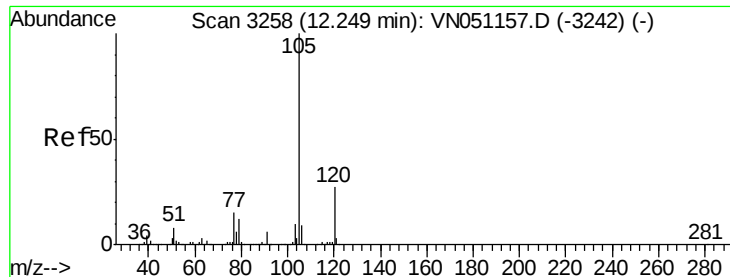
Abundance

Ion 151.90 (151.60 to 152.60): V

Ion 114.90 (114.60 to 115.60): V

Ion 149.90 (149.60 to 150.60): V





#73

Isopropylbenzene

Concen: 19.62 ug/l

RT: 12.25 min Scan# 3258

Delta R.T. -0.00 min

Lab File: VN051202.D

Acq: 14 Sep 2018 20:55

Instrument :

MSVOA_N

ClientSampleId :

VN0914WBSD03

Tot Ion: 105 Resp: 520486

Ion Ratio Lower Upper

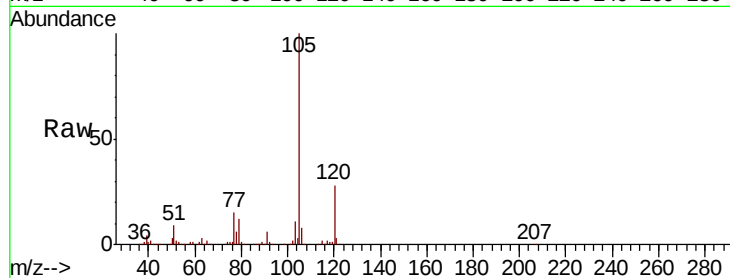
105 100

120 27.5 13.6 40.7

Manual Integrations
APPROVED

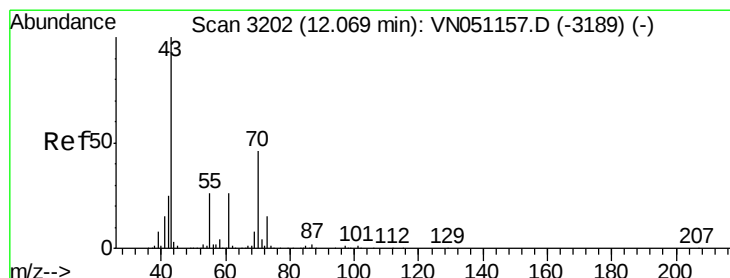
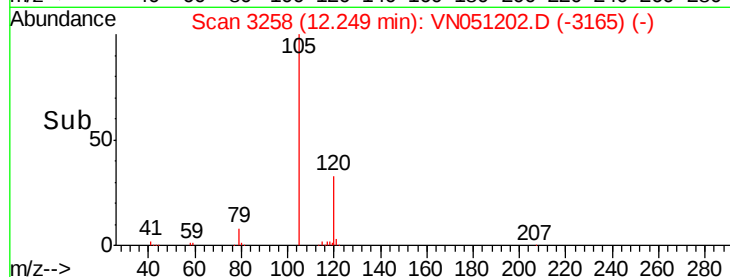
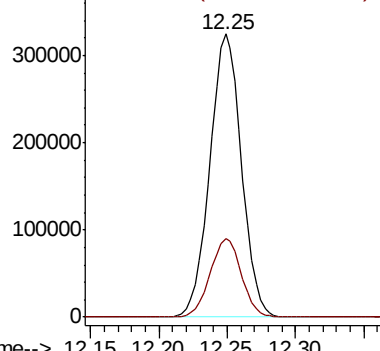
MMDadoda

9/17/2018 1:26:25 PM



Abundance Ion 105.00 (104.70 to 105.70): V

Ion 120.00 (119.70 to 120.70): V



#74

N-ethyl acetate

Concen: 15.58 ug/l

RT: 12.07 min Scan# 3202

Delta R.T. -0.00 min

Lab File: VN051202.D

Acq: 14 Sep 2018 20:55

Tgt Ion: 43 Resp: 104026

Ion Ratio Lower Upper

43 100

70 45.1 37.0 55.4

55 28.1 21.3 31.9

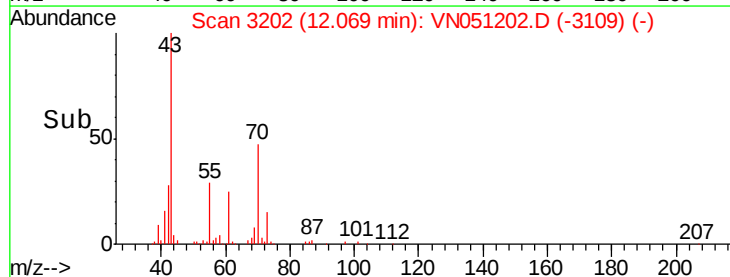
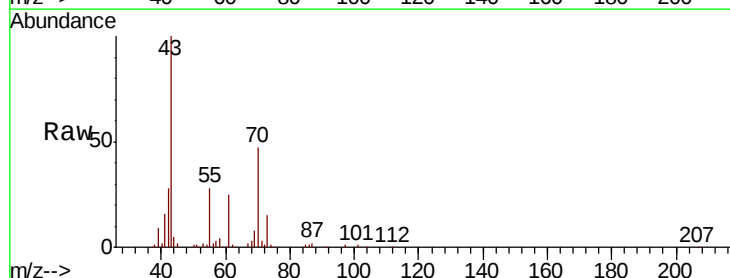
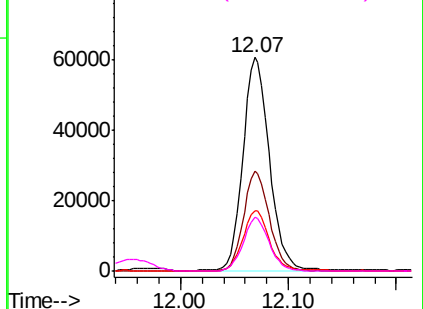
61 24.2 20.7 31.1

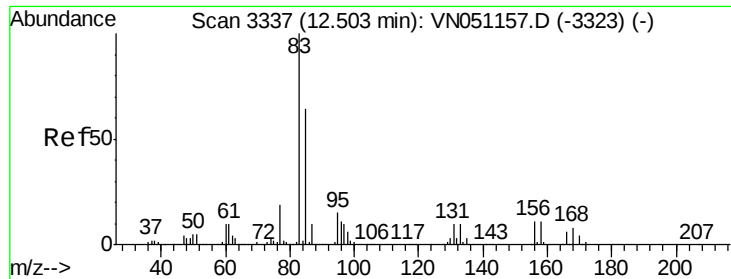
Abundance Ion 43.00 (42.70 to 43.70): V

Ion 70.00 (69.70 to 70.70): V

Ion 55.00 (54.70 to 55.70): V

Ion 61.00 (60.70 to 61.70): V





#75

1,1,2,2-Tetrachloroethane

Concen: 19.72 ug/l

RT: 12.51 min Scan# 3338

Delta R.T. 0.00 min

Lab File: VN051202.D

Acq: 14 Sep 2018 20:55

Instrument :

MSVOA_N

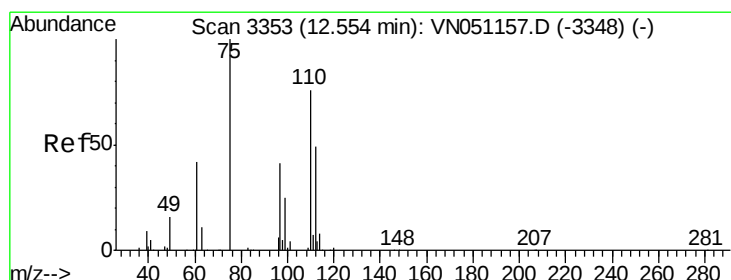
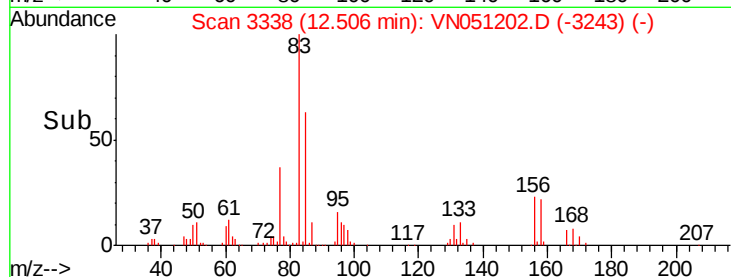
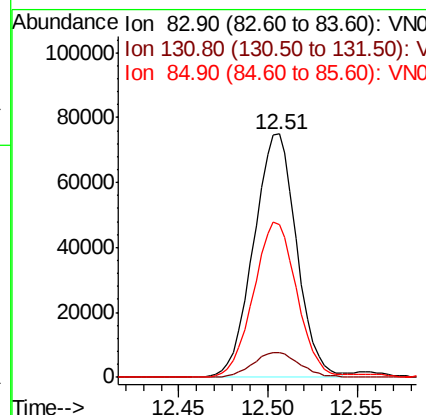
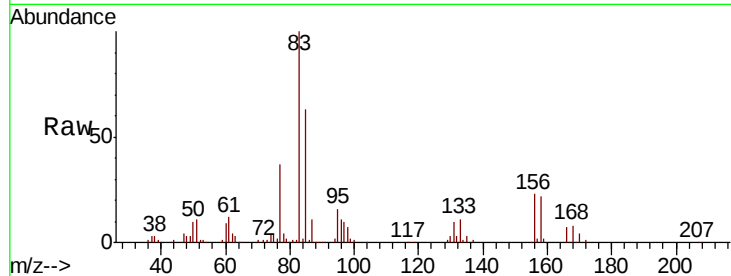
ClientSampleId :

VN0914WBSD03

Tot Ion:	83	Resp:	125910
Ion Ratio	Lower	Upper	
83	100		
131	11.0	5.3	16.1
85	64.6	32.3	96.8

Manual Integrations
APPROVED

MMDadoda
9/17/2018 1:26:25 PM



#76

1,2,3-Trichloropropane

Concen: 20.87 ug/l m

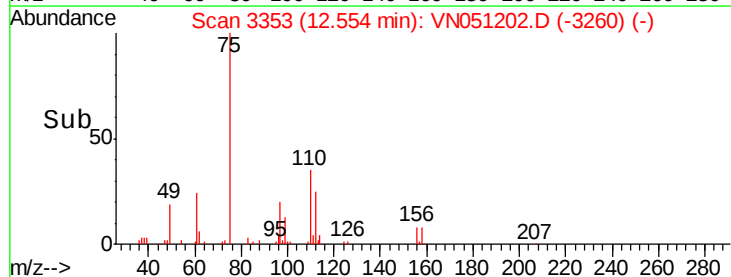
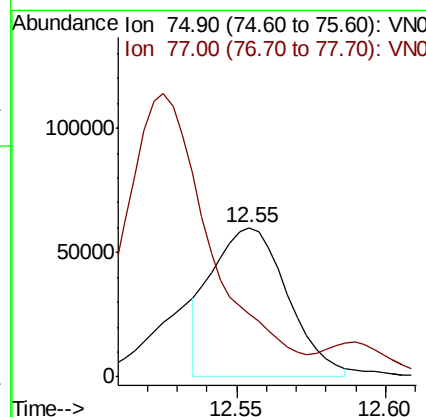
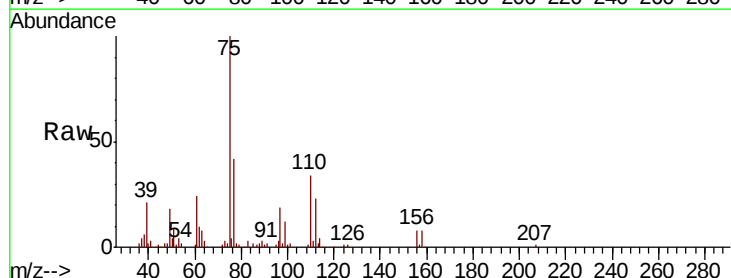
RT: 12.55 min Scan# 3353

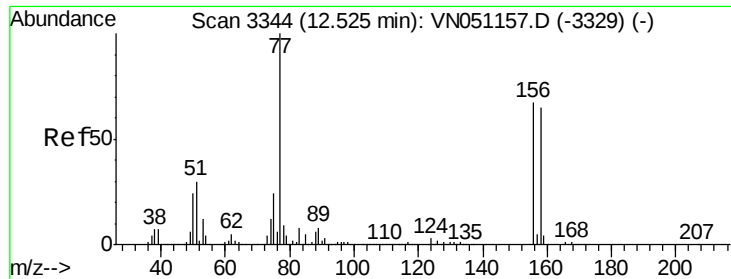
Delta R.T. 0.00 min

Lab File: VN051202.D

Acq: 14 Sep 2018 20:55

Tgt Ion:	75	Resp:	106601
Ion Ratio	Lower	Upper	
75	100		
77	0.0	0.0	0.0





#77

Bromobenzene

Concen: 19.06 ug/l

RT: 12.53 min Scan# 3344

Delta R.T. -0.00 min

Lab File: VN051202.D

Acq: 14 Sep 2018 20:55

Instrument :

MSVOA_N

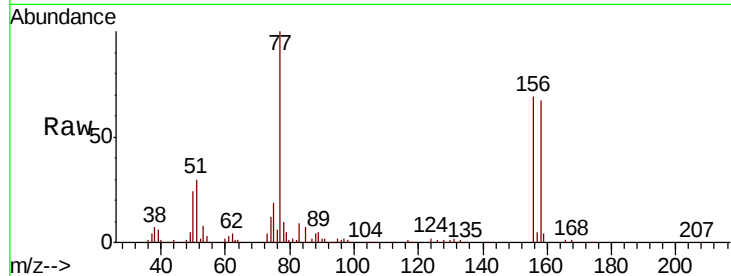
ClientSampleId :

VN0914WBSD03

Tot Ion	Ion	Ratio	Resp	Lower	Upper
156	100		135846		
77	168.7	87.5	262.6		
158	98.1	49.0	147.2		

Manual Integrations
APPROVED

MMDadoda
9/17/2018 1:26:25 PM

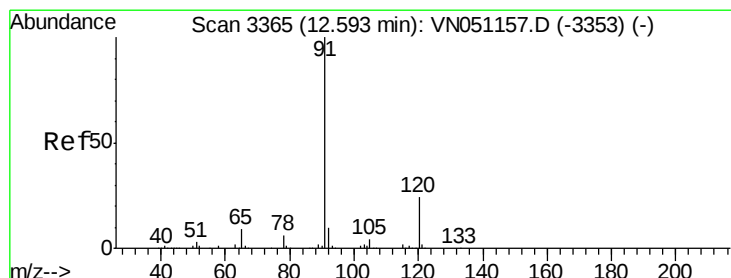
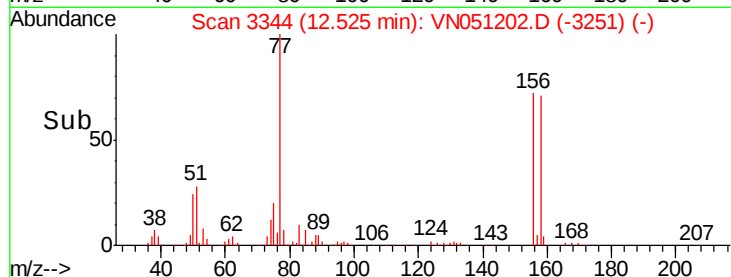
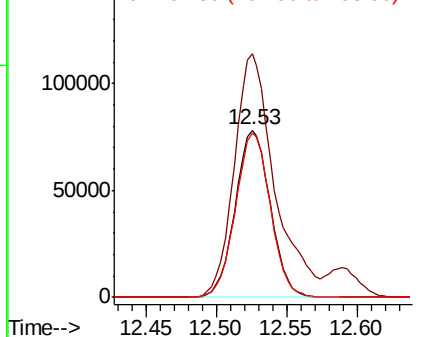


Abundance

Ion 155.80 (155.50 to 156.50): V

Ion 77.00 (76.70 to 77.70): VN

Ion 157.80 (157.50 to 158.50): V



#78

n-propylbenzene

Concen: 19.30 ug/l

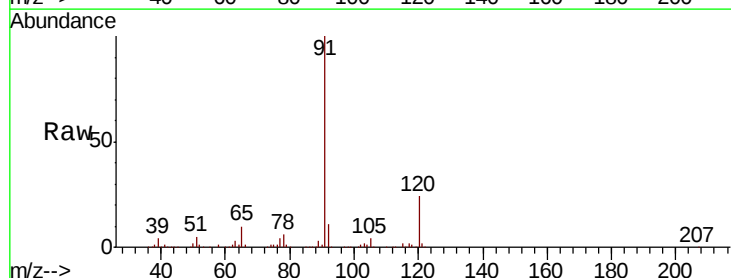
RT: 12.59 min Scan# 3364

Delta R.T. -0.00 min

Lab File: VN051202.D

Acq: 14 Sep 2018 20:55

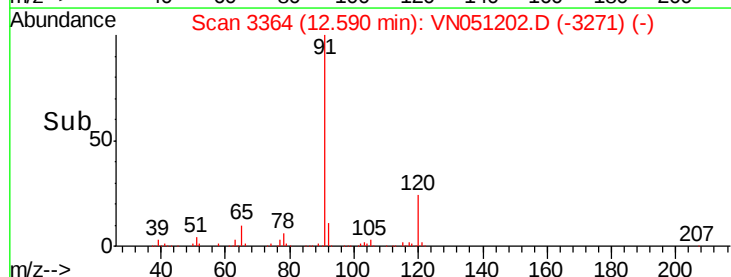
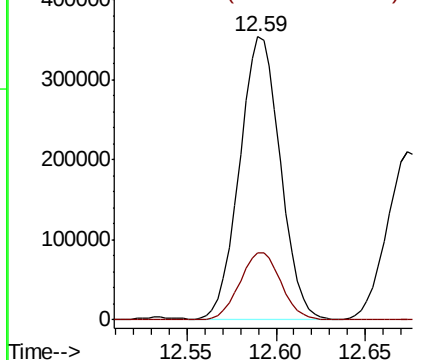
Tgt Ion	Ion	Ratio	Resp	Lower	Upper
91	100		562780		
120	24.0	12.0	36.0		

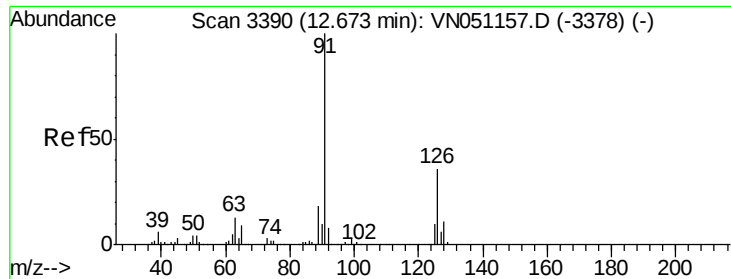


Abundance

Ion 91.00 (90.70 to 91.70): VN

Ion 120.00 (119.70 to 120.70): V





#79

2-Chlorotoluene

Concen: 19.44 ug/l

RT: 12.67 min Scan# 3390

Delta R.T. -0.00 min

Lab File: VN051202.D

Acq: 14 Sep 2018 20:55

Instrument :

MSVOA_N

ClientSampleId :

VN0914WBSD03

Tot Ion: 91 Resp: 354402

Ion Ratio Lower Upper

91 100

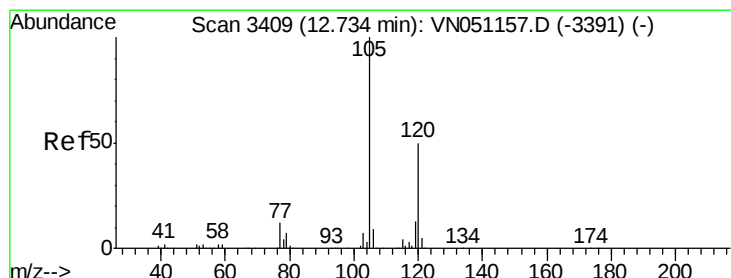
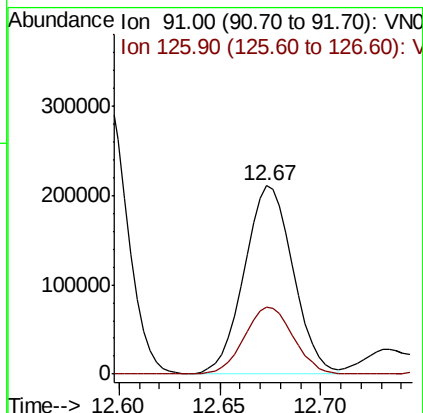
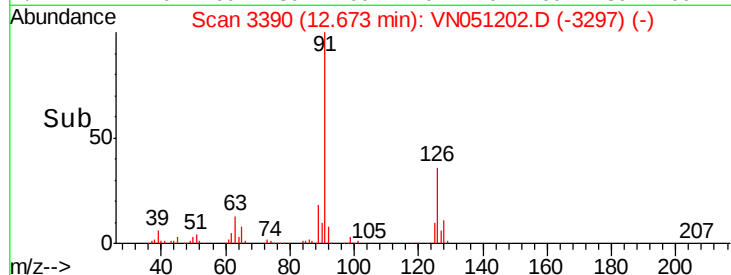
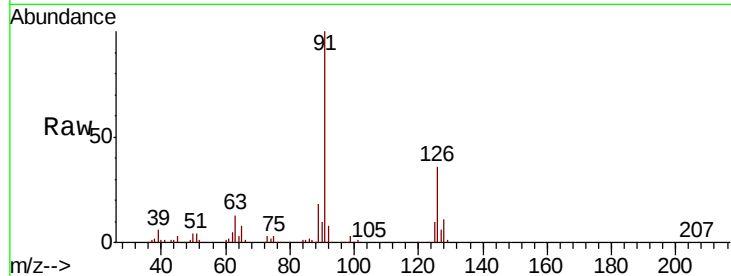
126 35.9 17.9 53.7

Manual Integrations

APPROVED

MMDadoda

9/17/2018 1:26:25 PM



#80

1,3,5-Trimethylbenzene

Concen: 19.93 ug/l

RT: 12.73 min Scan# 3408

Delta R.T. -0.00 min

Lab File: VN051202.D

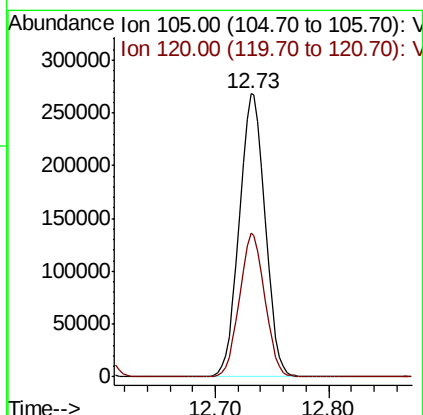
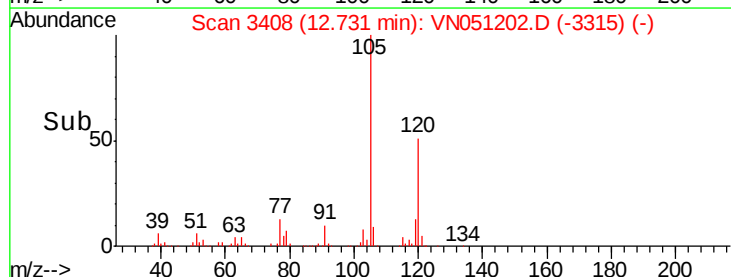
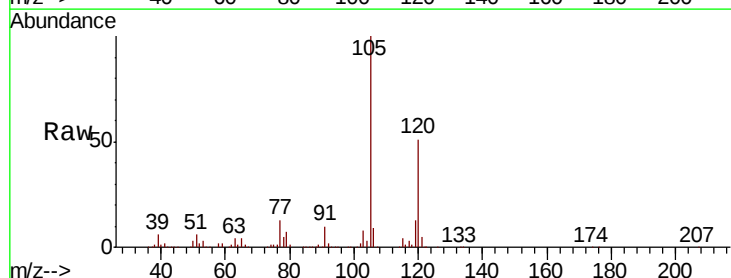
Acq: 14 Sep 2018 20:55

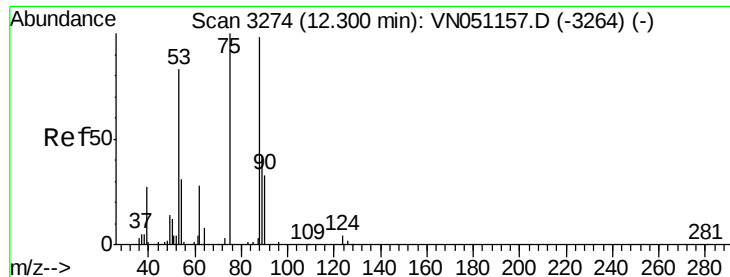
Tgt Ion: 105 Resp: 427445

Ion Ratio Lower Upper

105 100

120 49.6 24.9 74.6





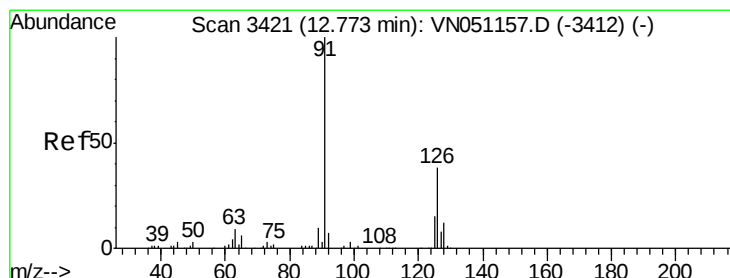
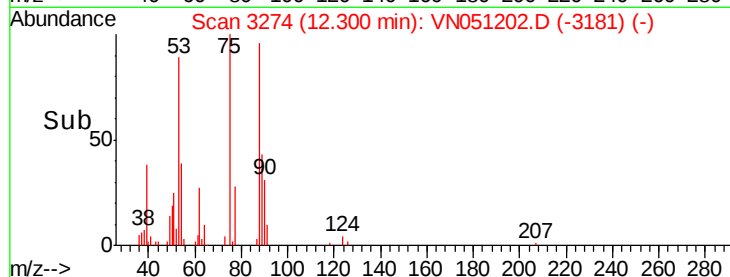
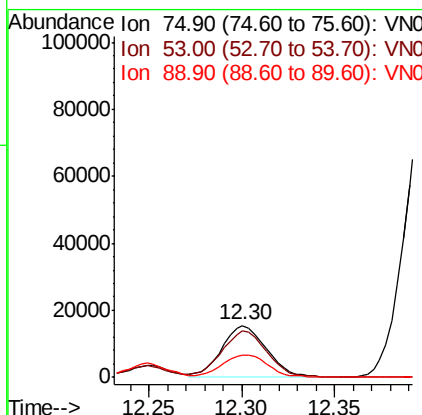
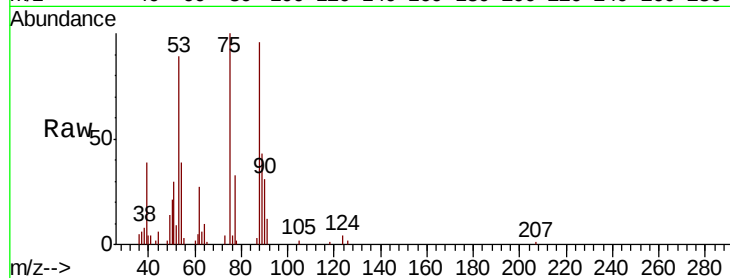
#81
trans-1,4-Dichloro-2-butene
Concen: 15.62 ug/l
RT: 12.30 min Scan# 3274
Delta R.T. -0.00 min
Lab File: VN051202.D
Acq: 14 Sep 2018 20:55

Instrument :
MSVOA_N
ClientSampleId :
VN0914WBSD03

Tot Ion	Ratio	Lower	Upper
75	100		
53	90.3	67.8	101.8
89	44.4	36.0	54.0

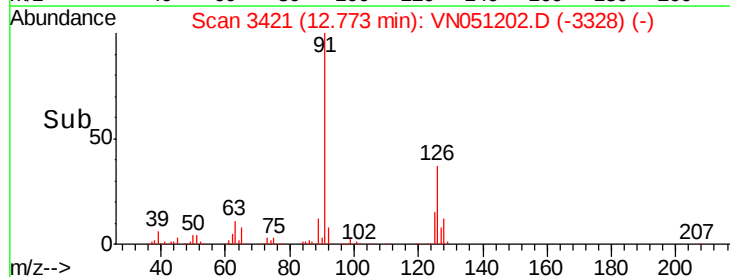
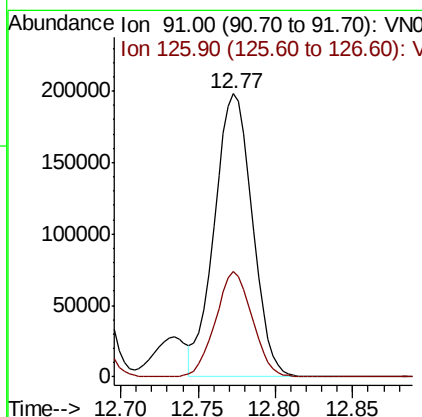
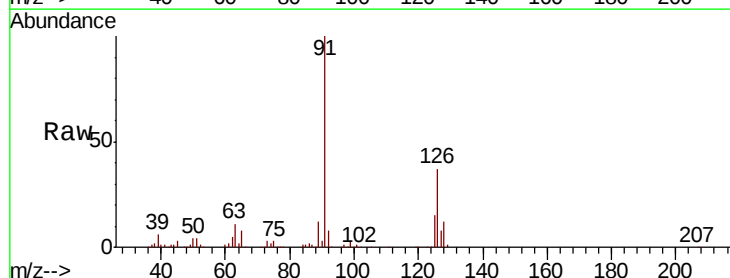
Manual Integrations
APPROVED

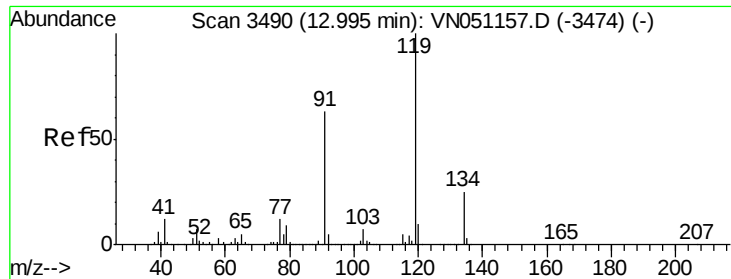
MMDadoda
9/17/2018 1:26:25 PM



#82
4-Chlorotoluene
Concen: 18.62 ug/l
RT: 12.77 min Scan# 3421
Delta R.T. -0.00 min
Lab File: VN051202.D
Acq: 14 Sep 2018 20:55

Tgt Ion	Ratio	Lower	Upper
91	100		
126	36.1	17.6	52.8





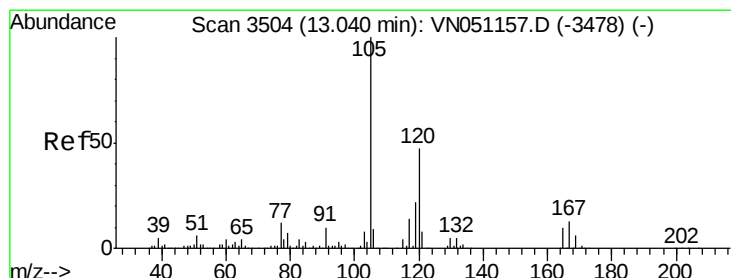
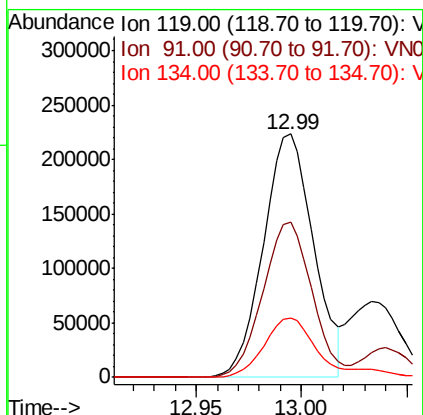
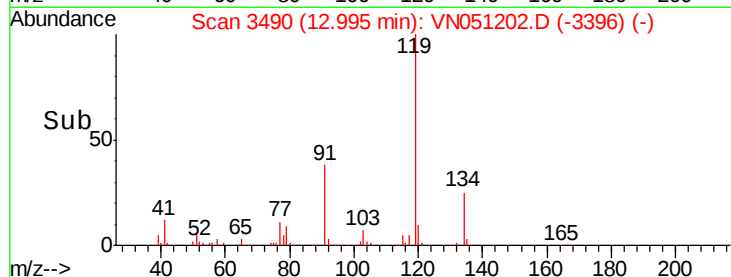
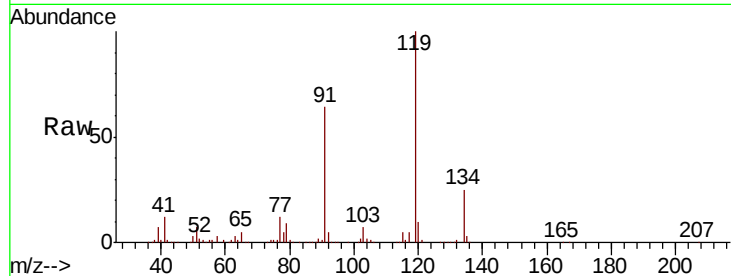
#83
 tert-Butylbenzene
 Concen: 19.58 ug/l
 RT: 12.99 min Scan# 3490
 Delta R.T. 0.00 min
 Lab File: VN051202.D
 Acq: 14 Sep 2018 20:55

Instrument :
 MSVOA_N
 ClientSampleId :
 VN0914WBSD03

Tot Ion	Ratio	Lower	Upper
119	100		
91	62.3	30.8	92.3
134	24.7	13.2	39.6

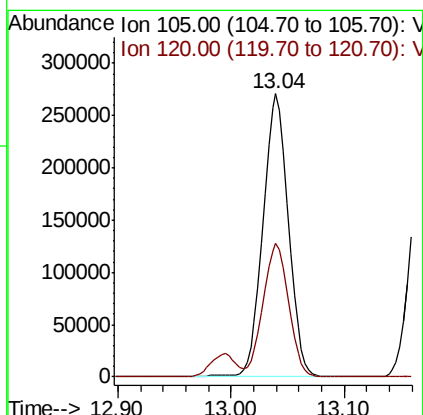
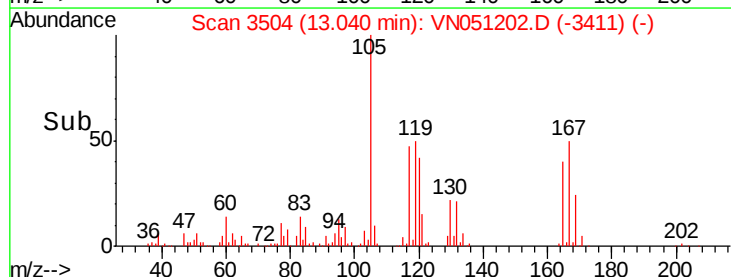
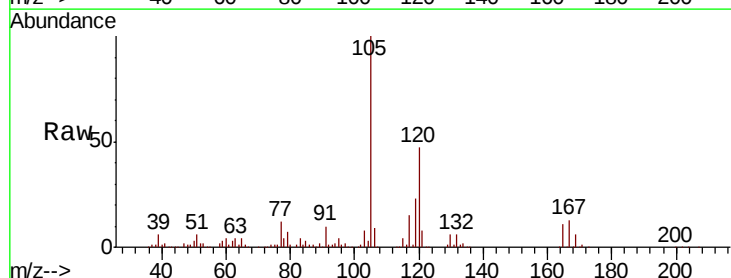
Manual Integrations
 APPROVED

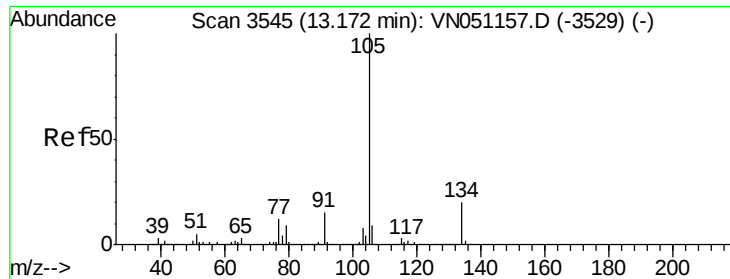
MMDadoda
 9/17/2018 1:26:25 PM



#84
 1,2,4-Trimethylbenzene
 Concen: 20.09 ug/l
 RT: 13.04 min Scan# 3504
 Delta R.T. -0.00 min
 Lab File: VN051202.D
 Acq: 14 Sep 2018 20:55

Tgt Ion	Ratio	Lower	Upper
105	100		
120	47.4	23.3	69.8





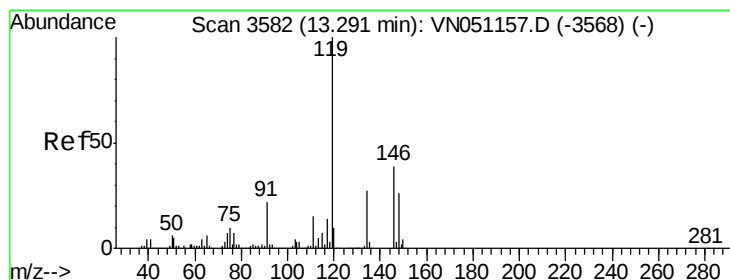
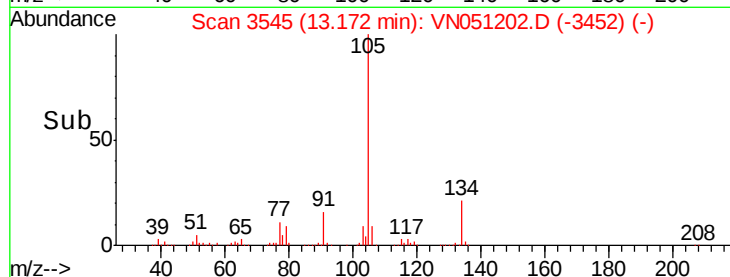
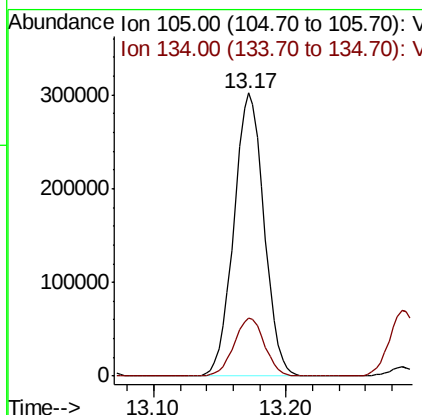
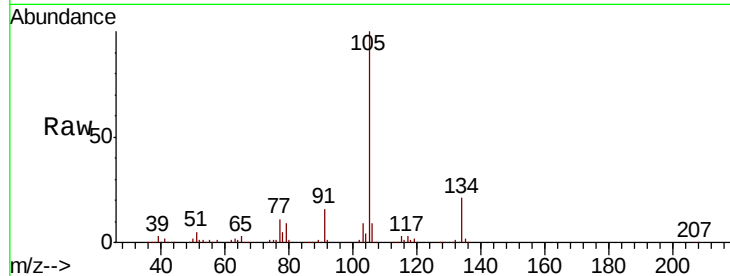
#85
 sec-Butylbenzene
 Concen: 19.60 ug/l
 RT: 13.17 min Scan# 3545
 Delta R.T. -0.00 min
 Lab File: VN051202.D
 Acq: 14 Sep 2018 20:55

Instrument :
 MSVOA_N
 ClientSampleId :
 VN0914WBSD03

Tot Ion	Ratio	Lower	Upper
105	100		
134	20.7	10.4	31.4

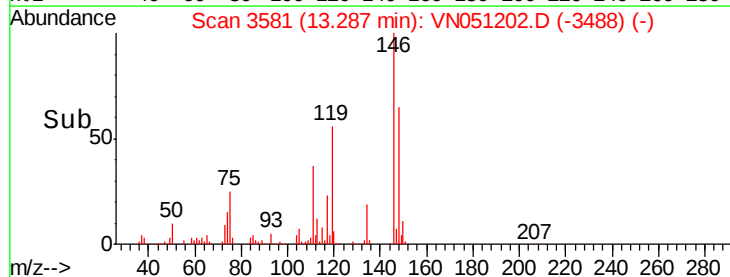
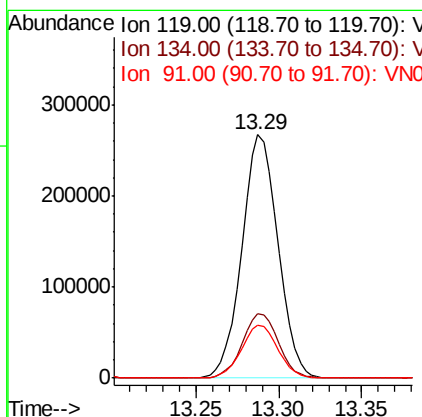
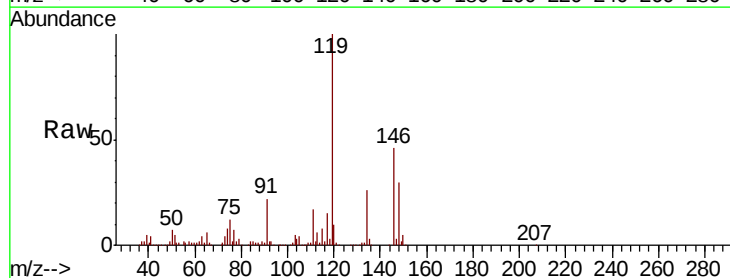
Manual Integrations
 APPROVED

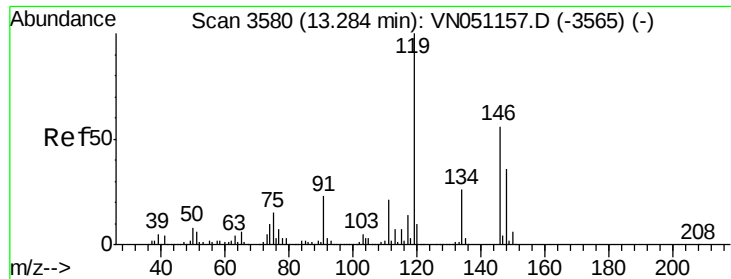
MMDadoda
 9/17/2018 1:26:25 PM



#86
 p-Isopropyltoluene
 Concen: 19.67 ug/l
 RT: 13.29 min Scan# 3581
 Delta R.T. -0.00 min
 Lab File: VN051202.D
 Acq: 14 Sep 2018 20:55

Tgt Ion	Ratio	Lower	Upper
119	100		
134	26.4	13.5	40.4
91	21.8	10.9	32.9





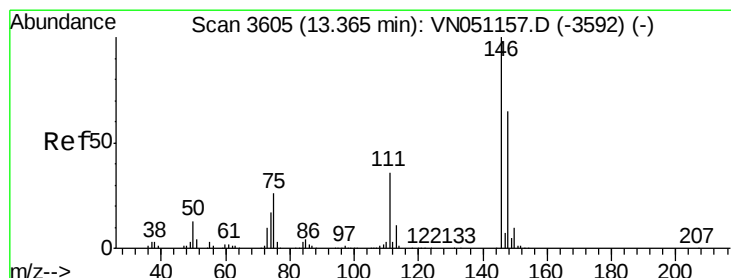
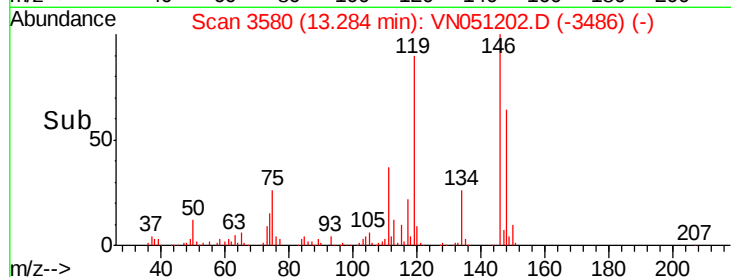
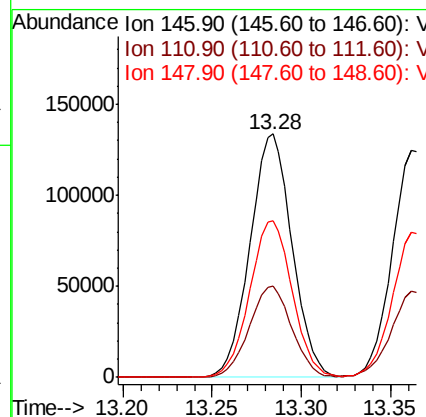
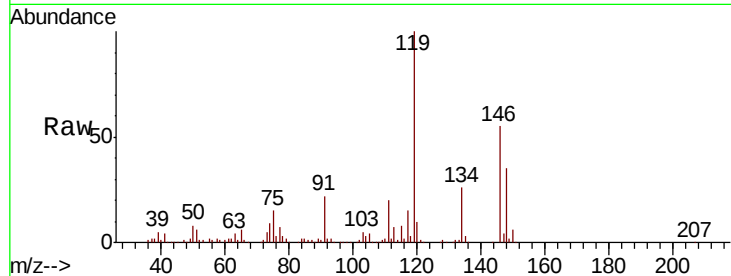
#87
 1,3-Dichlorobenzene
 Concen: 18.24 ug/l
 RT: 13.28 min Scan# 3580
 Delta R.T. 0.00 min
 Lab File: VN051202.D
 Acq: 14 Sep 2018 20:55

Instrument :
 MSVOA_N
 ClientSampleId :
 VN0914WBSD03

Tot Ion	Ratio	Lower	Upper
146	100		
111	37.8	19.1	57.1
148	64.9	32.2	96.6

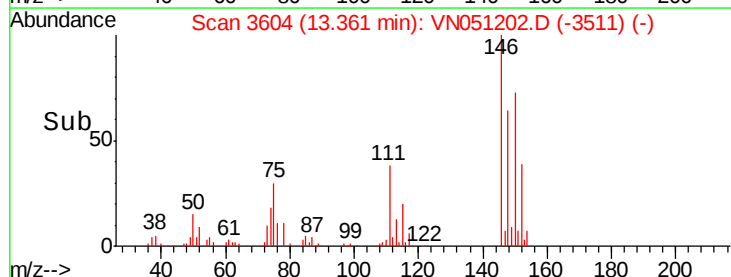
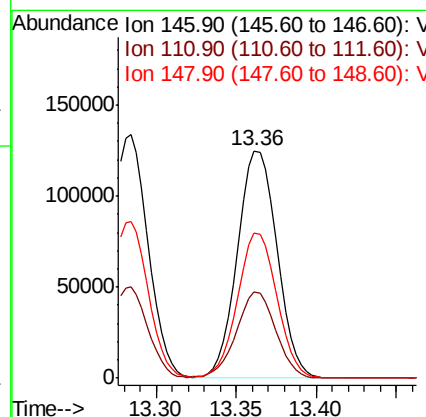
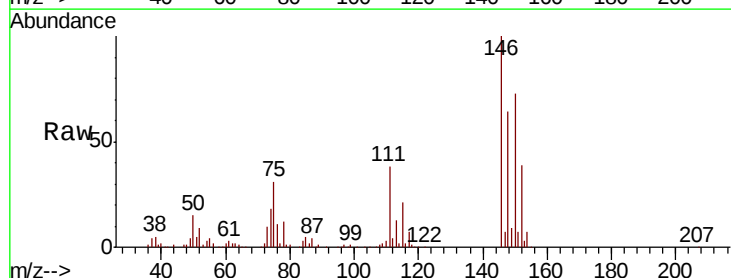
Manual Integrations
 APPROVED

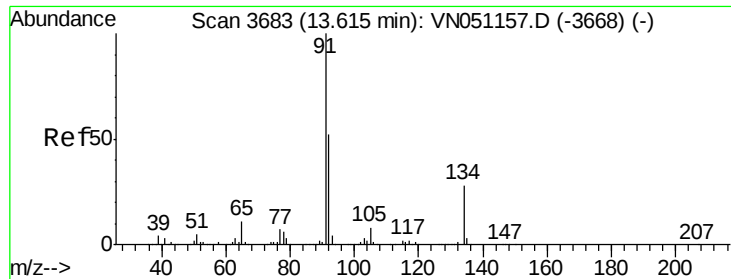
MMDadoda
 9/17/2018 1:26:25 PM



#88
 1,4-Dichlorobenzene
 Concen: 19.02 ug/l
 RT: 13.36 min Scan# 3604
 Delta R.T. 0.00 min
 Lab File: VN051202.D
 Acq: 14 Sep 2018 20:55

Tgt Ion	Ratio	Lower	Upper
146	100		
111	37.7	18.4	55.0
148	63.3	32.2	96.6





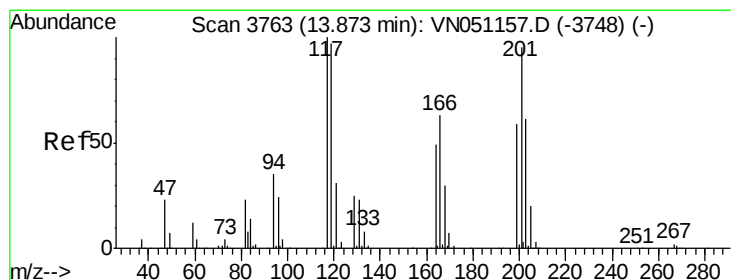
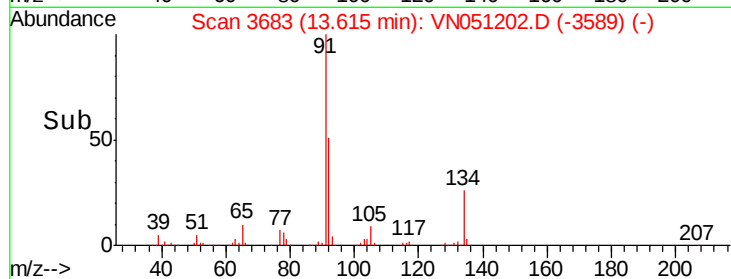
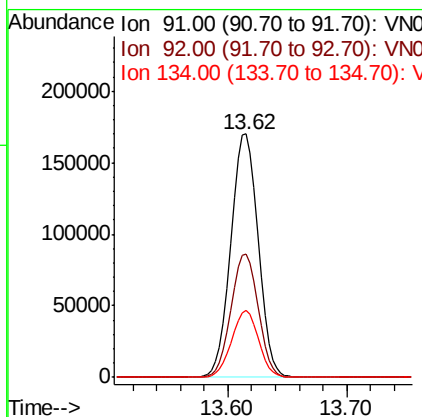
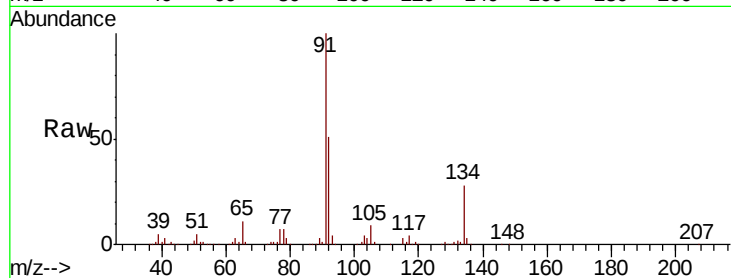
#89
n-Butylbenzene
Concen: 16.94 ug/l
RT: 13.62 min Scan# 3683
Delta R.T. 0.00 min
Lab File: VN051202.D
Acq: 14 Sep 2018 20:55

Instrument :
MSVOA_N
ClientSampleId :
VN0914WBSD03

Tot Ion	Ratio	Lower	Upper
91	100		
92	50.4	26.2	78.6
134	27.0	13.7	41.1

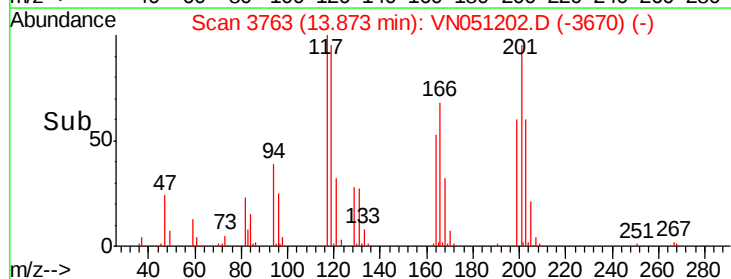
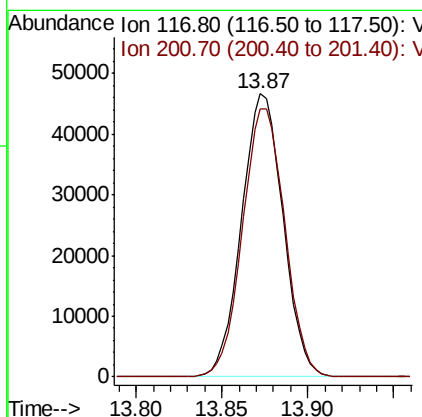
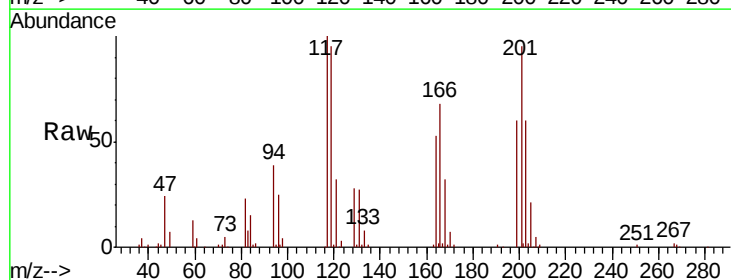
Manual Integrations
APPROVED

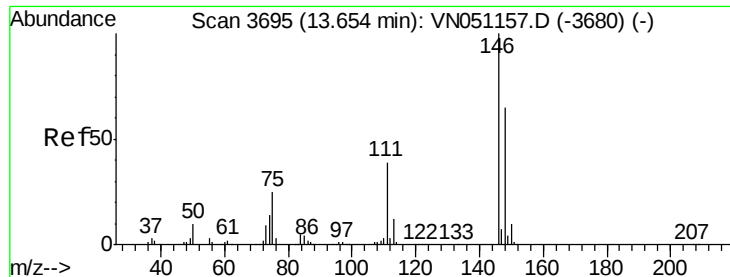
MMDadoda
9/17/2018 1:26:25 PM



#90
Hexachloroethane
Concen: 20.51 ug/l
RT: 13.87 min Scan# 3763
Delta R.T. 0.00 min
Lab File: VN051202.D
Acq: 14 Sep 2018 20:55

Tgt Ion	Ratio	Lower	Upper
117	100		
201	96.3	47.3	142.0





#91

1,2-Dichlorobenzene

Concen: 18.51 ug/l

RT: 13.65 min Scan# 3695

Delta R.T. 0.00 min

Lab File: VN051202.D

Acq: 14 Sep 2018 20:55

Instrument :

MSVOA_N

ClientSampleId :

VN0914WBSD03

Tot Ion:146 Resp: 218042

Ion Ratio Lower Upper

146 100

111 38.6 19.7 59.0

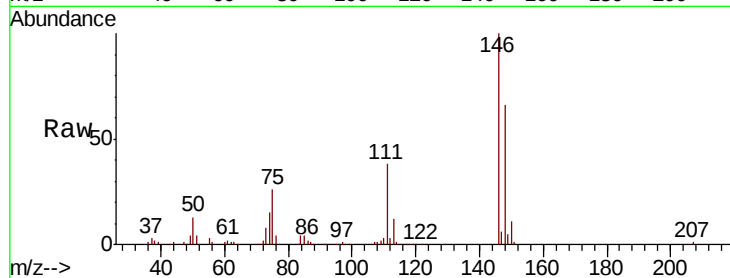
148 64.7 32.1 96.3

Manual Integrations

APPROVED

MMDadoda

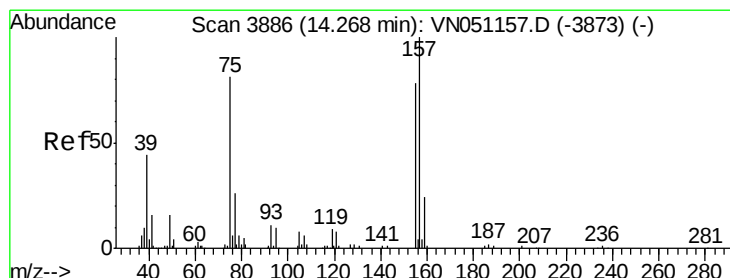
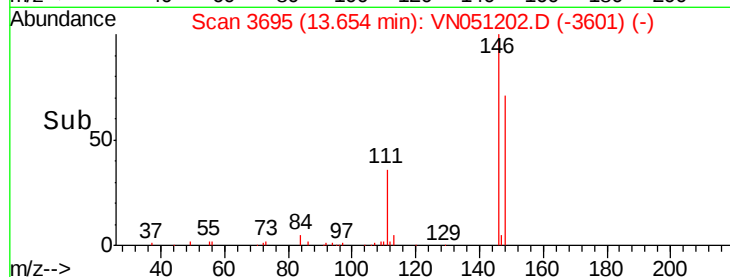
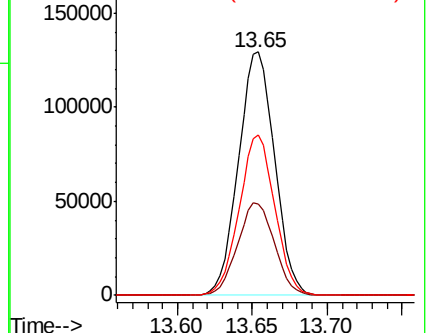
9/17/2018 1:26:25 PM



Abundance Ion 145.90 (145.60 to 146.60): V

Ion 110.90 (110.60 to 111.60): V

Ion 147.90 (147.60 to 148.60): V



#92

1,2-Dibromo-3-Chloropropane

Concen: 17.90 ug/l

RT: 14.27 min Scan# 3887

Delta R.T. 0.00 min

Lab File: VN051202.D

Acq: 14 Sep 2018 20:55

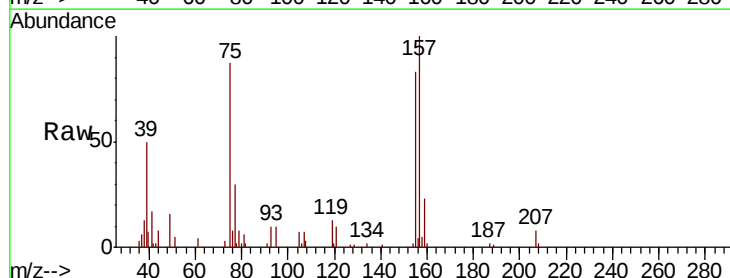
Tgt Ion: 75 Resp: 15838

Ion Ratio Lower Upper

75 100

155 92.7 48.7 146.1

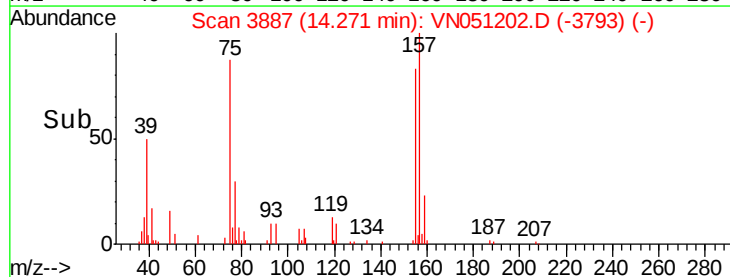
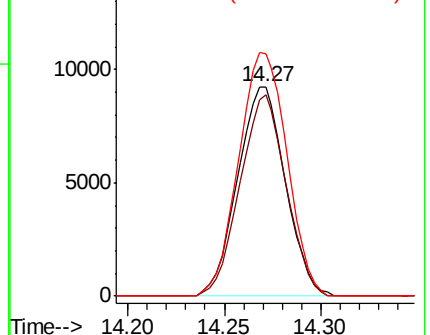
157 118.0 63.6 190.9

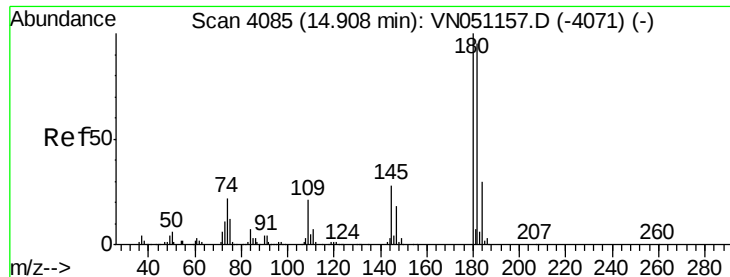


Abundance Ion 74.90 (74.60 to 75.60): VN0

Ion 154.80 (154.50 to 155.50): V

Ion 156.80 (156.50 to 157.50): V





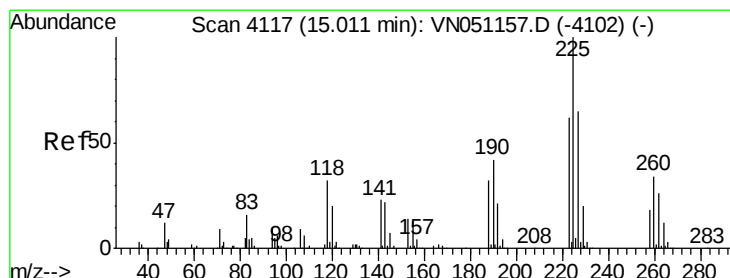
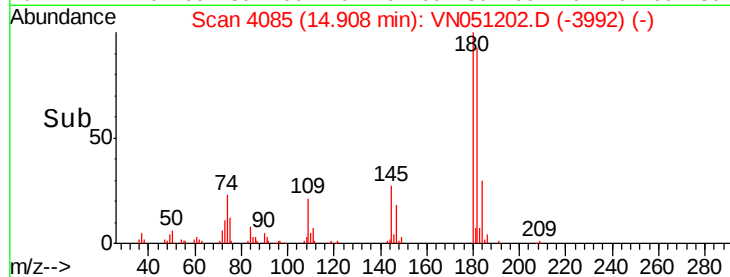
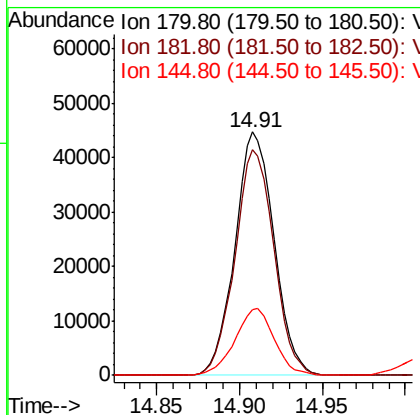
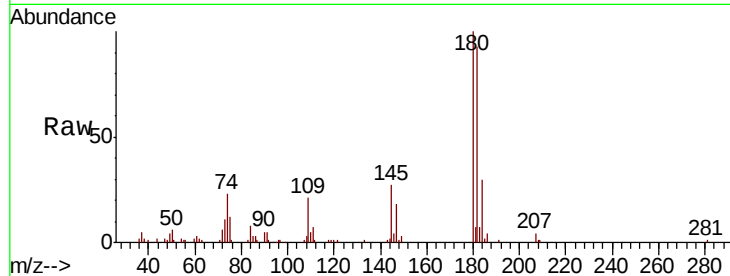
#93
 1,2,4-Trichlorobenzene
 Concen: 15.85 ug/l
 RT: 14.91 min Scan# 4085
 Delta R.T. -0.00 min
 Lab File: VN051202.D
 Acq: 14 Sep 2018 20:55

Instrument :
 MSVOA_N
 ClientSampleId :
 VN0914WBSD03

Tot Ion	Ratio	Lower	Upper
180	100		
182	92.3	47.3	141.8
145	27.5	14.2	42.6

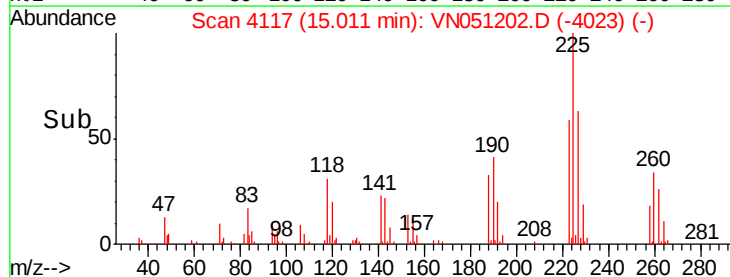
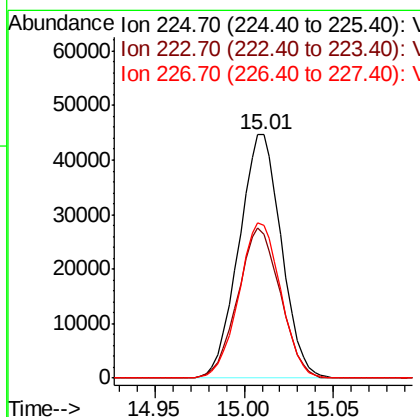
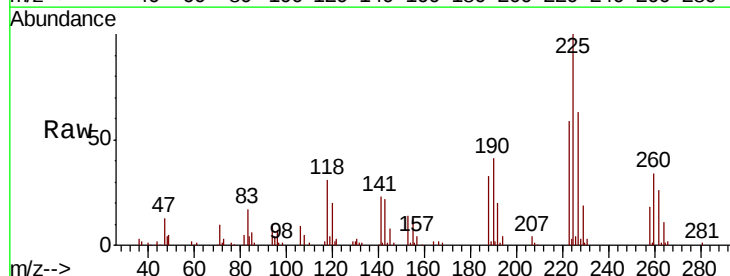
Manual Integrations
 APPROVED

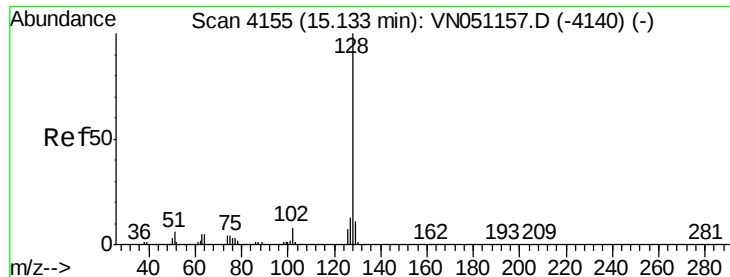
MMDadoda
 9/17/2018 1:26:25 PM



#94
 Hexachlorobutadiene
 Concen: 20.58 ug/l
 RT: 15.01 min Scan# 4117
 Delta R.T. 0.00 min
 Lab File: VN051202.D
 Acq: 14 Sep 2018 20:55

Tgt Ion	Ratio	Lower	Upper
225	100		
223	61.7	31.4	94.0
227	63.1	32.1	96.3





#95

Naphthalene

Concen: 14.75 ug/l

RT: 15.13 min Scan# 4155

Delta R.T. -0.00 min

Lab File: VN051202.D

Acq: 14 Sep 2018 20:55

Instrument :

MSVOA_N

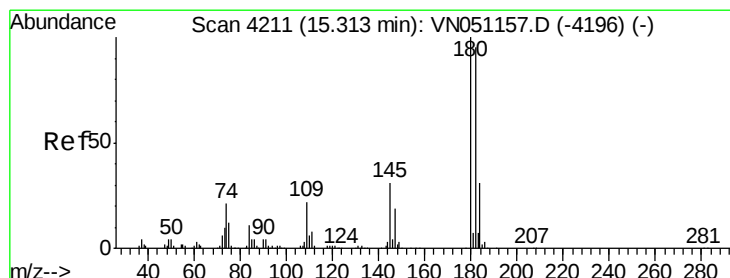
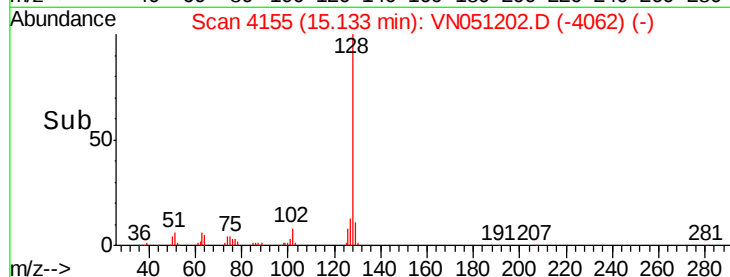
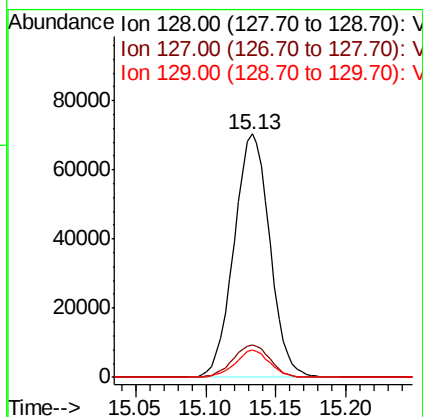
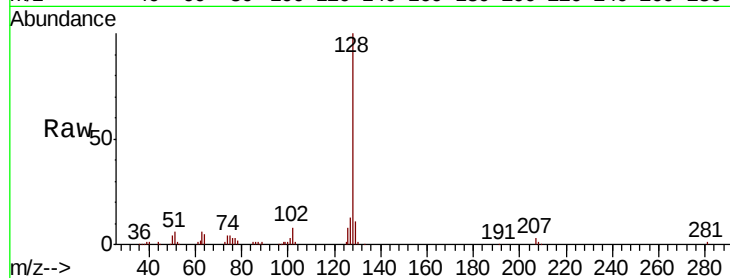
ClientSampleId :

VN0914WBSD03

Tot Ion:	128	Resp:	125314
Ion Ratio	Lower	Upper	
128	100		
127	13.7	10.6	15.8
129	10.7	8.6	12.8

Manual Integrations
APPROVED

MMDadoda
9/17/2018 1:26:25 PM



#96

1,2,3-Trichlorobenzene

Concen: 16.16 ug/l

RT: 15.31 min Scan# 4211

Delta R.T. -0.00 min

Lab File: VN051202.D

Acq: 14 Sep 2018 20:55

Tgt Ion:	180	Resp:	76343
Ion Ratio	Lower	Upper	
180	100		
182	95.3	47.8	143.3
145	30.5	14.6	43.8

