

Data Path : Z:\VOASRV\HPCHEM1\MSVOA N\DATA\VN091518\
 Data File : VN051242.D
 Acq On : 16 Sep 2018 00:06
 Operator : MD\SY
 Sample : VN0915WBSD02
 Misc : 5.00mL/MSVOA N/WATER
 ALS Vial : 31 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 VN0915WBSD02

Manual Integrations
 APPROVED

MMDadoda
 9/18/2018 4:32:04 PM

Quant Time: Sep 17 05:06:15 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	604594	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	8.59	114	865695	50.00	ug/l	0.00
63) Chlorobenzene-d5	11.41	117	760406	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.35	152	343374	50.00	ug/l	0.00

System Monitoring Compounds

33) 1,2-Dichloroethane-d4	8.03	65	292316	43.45	ug/l	0.00
Spiked Amount	50.000		Recovery	=	86.90%	
35) Dibromofluoromethane	7.59	113	294025	45.20	ug/l	0.00
Spiked Amount	50.000		Recovery	=	90.40%	
50) Toluene-d8	10.09	98	1072886	43.46	ug/l	0.00
Spiked Amount	50.000		Recovery	=	86.92%	
62) 4-Bromofluorobenzene	12.40	95	322579	39.51	ug/l	0.00
Spiked Amount	50.000		Recovery	=	79.02%	

Target Compounds

						Qvalue
2) Dichlorodifluoromethane	1.85	85	109022	18.70	ug/l	96
3) Chloromethane	2.06	50	144917	18.91	ug/l	99
4) Vinyl Chloride	2.19	62	148203	18.52	ug/l	98
5) Bromomethane	2.57	94	88216	18.92	ug/l	100
6) Chloroethane	2.70	64	87878	17.79	ug/l	97
7) Trichlorofluoromethane	3.01	101	201474	19.00	ug/l	99
8) Diethyl Ether	3.41	74	65355	16.76	ug/l	100
9) 1,1,2-Trichlorotrifluoroet	3.76	101	123148	18.01	ug/l	100
10) Methyl Iodide	3.95	142	100668	19.60	ug/l	99
11) Tert butyl alcohol	4.80	59	32350	62.95	ug/l	98
12) 1,1-Dichloroethene	3.74	96	112806	17.49	ug/l	99
13) Acrolein	3.61	56	22277	56.35	ug/l	96
14) Allyl chloride	4.33	41	161335	16.42	ug/l	99
15) Acrylonitrile	5.00	53	178871	78.55	ug/l	99
16) Acetone	3.82	43	115827	65.31	ug/l	98
17) Carbon Disulfide	4.05	76	350310	18.50	ug/l	98
18) Methyl Acetate	4.33	43	86959	16.14	ug/l	98
19) Methyl tert-butyl Ether	5.05	73	276613	16.23	ug/l	100
20) Methylene Chloride	4.56	84	132951	17.89	ug/l	99
21) trans-1,2-Dichloroethene	5.04	96	121314	17.34	ug/l	97
22) Diisopropyl ether	5.96	45	355517	18.23	ug/l	98
23) Vinyl Acetate	5.90	43	1084046	82.13	ug/l	100
24) 1,1-Dichloroethane	5.85	63	223849	18.09	ug/l	99
25) 2-Butanone	6.84	43	174467	65.95	ug/l	99
26) 2,2-Dichloropropane	6.83	77	129543	12.79	ug/l	98
27) cis-1,2-Dichloroethene	6.83	96	133864	17.44	ug/l	97
28) Bromochloromethane	7.19	49	83123	15.09	ug/l	100
29) Tetrahydrofuran	7.22	42	119859	72.56	ug/l	98
30) Chloroform	7.37	83	228028	18.52	ug/l	98
31) Cyclohexane	7.66	56	195043	17.53	ug/l	95
32) 1,1,1-Trichloroethane	7.57	97	193527	18.45	ug/l	100
36) 1,1-Dichloropropene	7.80	75	170944	17.99	ug/l	99
37) Ethyl Acetate	6.93	43	87441	15.89	ug/l	99
38) Carbon Tetrachloride	7.78	117	178526	19.08	ug/l	100

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 Misc : 5.00mL/MSVOA N/WATER
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Quant Time: Sep 17 05:06:15 2018
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_N\METHODS\82N091018W.M
 Quant Title : SW846 8260
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 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
39) Methylcyclohexane	9.08	83	176140	16.80	ug/l	95
40) Benzene	8.04	78	521985	18.23	ug/l	100
41) Methacrylonitrile	7.18	41	42206	14.86	ug/l	93
42) 1,2-Dichloroethane	8.13	62	151412	18.14	ug/l	99
43) Isopropyl Acetate	8.17	43	163509	16.83	ug/l #	85
44) Trichloroethene	8.84	130	138751	17.71	ug/l	98
45) 1,2-Dichloropropane	9.12	63	134906	18.23	ug/l	99
46) Dibromomethane	9.21	93	79718	17.65	ug/l	98
47) Bromodichloromethane	9.40	83	167793	18.28	ug/l	99
48) Methyl methacrylate	9.20	41	75776	16.01	ug/l	98
49) 1,4-Dioxane	9.20	88	20613	277.71	ug/l	98
51) 4-Methyl-2-Pentanone	9.99	43	413182	76.92	ug/l	99
52) Toluene	10.16	92	319195	18.28	ug/l	99
53) t-1,3-Dichloropropene	10.38	75	149312	16.25	ug/l	99
54) cis-1,3-Dichloropropene	9.84	75	180874	16.79	ug/l	99
55) 1,1,2-Trichloroethane	10.56	97	111984	17.65	ug/l	98
56) Ethyl methacrylate	10.43	69	122911	16.18	ug/l	98
57) 1,3-Dichloropropane	10.71	76	184008	17.50	ug/l	99
58) 2-Chloroethyl Vinyl ether	9.70	63	226295	74.61	ug/l	100
59) 2-Hexanone	10.75	43	245442	67.38	ug/l	98
60) Dibromochloromethane	10.90	129	125818	17.60	ug/l	99
61) 1,2-Dibromoethane	11.01	107	107295	17.30	ug/l	99
64) Tetrachloroethene	10.63	164	133190	19.20	ug/l	98
65) Chlorobenzene	11.43	112	341192	17.80	ug/l	99
66) 1,1,1,2-Tetrachloroethane	11.51	131	130388	18.89	ug/l	99
67) Ethyl Benzene	11.51	91	555526	17.90	ug/l	100
68) m/p-Xylenes	11.62	106	438971	36.81	ug/l	99
69) o-Xylene	11.95	106	208262	18.03	ug/l	98
70) Styrene	11.96	104	323909	18.08	ug/l	99
71) Bromoform	12.13	173	81736	16.82	ug/l #	98
73) Isopropylbenzene	12.25	105	544243	18.90	ug/l	99
74) N-amyl acetate	12.07	43	103057	14.22	ug/l	98
75) 1,1,2,2-Tetrachloroethane	12.50	83	126581	18.15	ug/l	99
76) 1,2,3-Trichloropropane	12.55	75	105860m	18.96	ug/l	
77) Bromobenzene	12.53	156	140486	18.16	ug/l	97
78) n-propylbenzene	12.59	91	585089	18.48	ug/l	100
79) 2-Chlorotoluene	12.67	91	366532	18.53	ug/l	99
80) 1,3,5-Trimethylbenzene	12.73	105	443336	19.04	ug/l	100
81) trans-1,4-Dichloro-2-buten	12.30	75	24586	13.60	ug/l	95
82) 4-Chlorotoluene	12.77	91	353371	17.99	ug/l	98
83) tert-Butylbenzene	12.99	119	378475	18.41	ug/l	98
84) 1,2,4-Trimethylbenzene	13.04	105	437520	19.11	ug/l	100
85) sec-Butylbenzene	13.17	105	486787	18.47	ug/l	99
86) p-Isopropyltoluene	13.29	119	417569	18.68	ug/l	100
87) 1,3-Dichlorobenzene	13.28	146	227158	17.31	ug/l	99
88) 1,4-Dichlorobenzene	13.36	146	213590	17.74	ug/l	98
89) n-Butylbenzene	13.62	91	276966	15.92	ug/l	98
90) Hexachloroethane	13.87	117	81847	19.74	ug/l	100
91) 1,2-Dichlorobenzene	13.65	146	220954	17.28	ug/l	99
92) 1,2-Dibromo-3-Chloropropan	14.27	75	15033	15.74	ug/l	99

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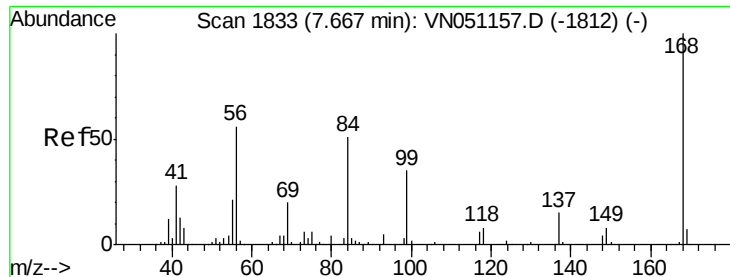
Manual Integrations
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MMDadoda
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Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_N\METHODS\82N091018W.M
Quant Title : SW846 8260
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Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
93) 1,2,4-Trichlorobenzene	14.91	180	72025	14.71	ug/l	100
94) Hexachlorobutadiene	15.01	225	73430	18.60	ug/l	99
95) Naphthalene	15.13	128	124236	13.94	ug/l	99
96) 1,2,3-Trichlorobenzene	15.31	180	77574	15.31	ug/l	99

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



#1

Pentafluorobenzene

Concen: 50.00 ug/l

RT: 7.67 min Scan# 1833

Delta R.T. -0.00 min

Lab File: VN051242.D

Acq: 16 Sep 2018 00:06

Instrument :

MSVOA_N

ClientSampleId :

VN0915WBSD02

Tot Ion:168 Resp: 604594

Ion Ratio Lower Upper

168 100

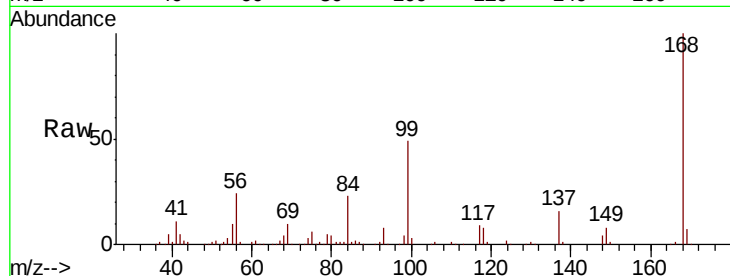
99 48.3 38.3 57.5

Manual Integrations

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9/18/2018 4:32:04 PM



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VN

300000

250000

200000

150000

100000

50000

0

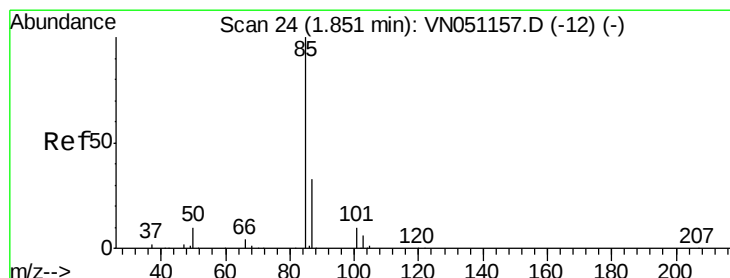
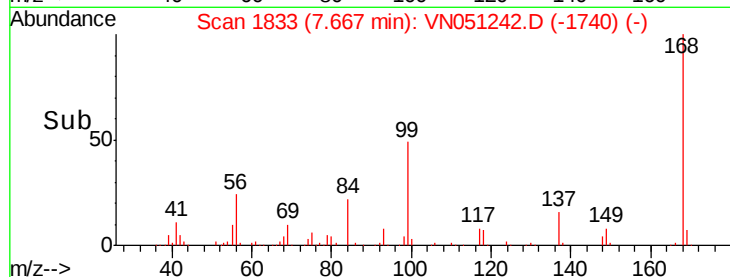
7.67

7.60

7.70

7.80

Time-->



#2

Dichlorodifluoromethane

Concen: 18.70 ug/l

RT: 1.85 min Scan# 24

Delta R.T. -0.00 min

Lab File: VN051242.D

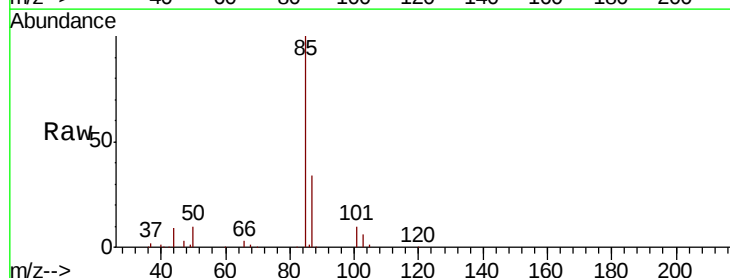
Acq: 16 Sep 2018 00:06

Tgt Ion: 85 Resp: 109022

Ion Ratio Lower Upper

85 100

87 34.1 15.9 47.6



Abundance Ion 84.90 (84.60 to 85.60): VN

Ion 86.90 (86.60 to 87.60): VN

80000

60000

40000

20000

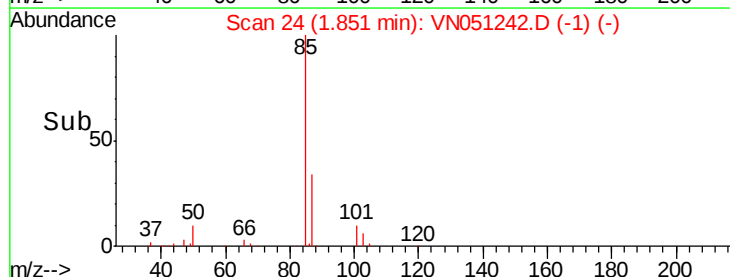
0

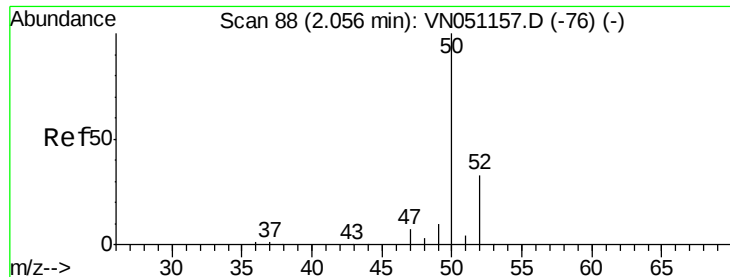
1.85

1.80

1.90

Time-->





#3

Chloromethane

Concen: 18.91 ug/l

RT: 2.06 min Scan# 89

Delta R.T. 0.00 min

Lab File: VN051242.D

Acq: 16 Sep 2018 00:06

Instrument :

MSVOA_N

ClientSampleId :

VN0915WBSD02

Tot Ion: 50 Resp: 144917

Ion Ratio Lower Upper

50 100

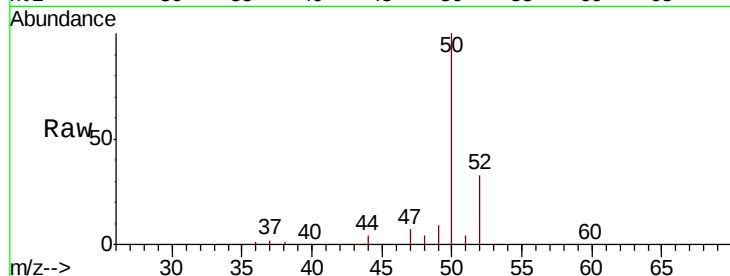
52 33.0 26.0 39.0

Manual Integrations

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Abundance Ion 49.90 (49.60 to 50.60): VN051157.D (-76) (-)

Ion 51.90 (51.60 to 52.60): VN051157.D (-76) (-)

2.06

120000

100000

80000

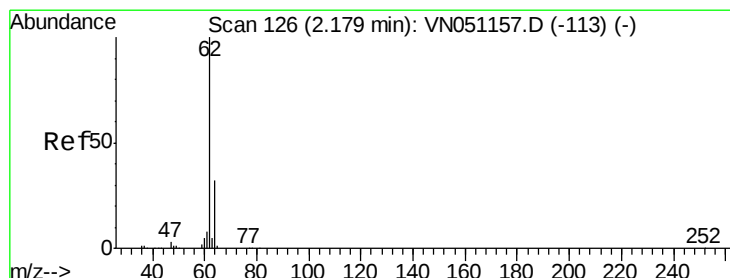
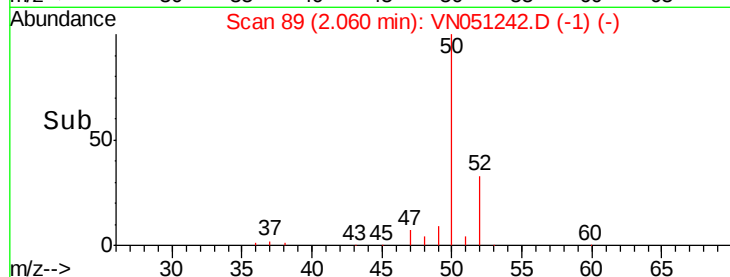
60000

40000

20000

0

Time-->



#4

Vinyl Chloride

Concen: 18.52 ug/l

RT: 2.19 min Scan# 128

Delta R.T. 0.00 min

Lab File: VN051242.D

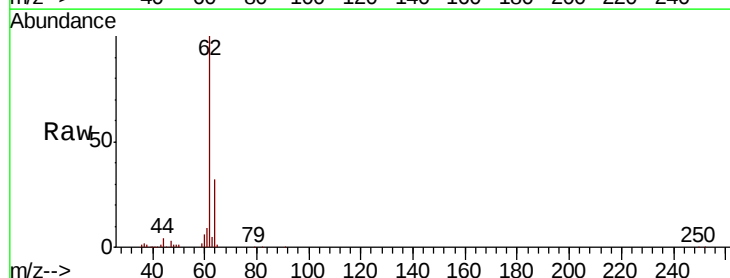
Acq: 16 Sep 2018 00:06

Tgt Ion: 62 Resp: 148203

Ion Ratio Lower Upper

62 100

64 31.8 26.2 39.4



Abundance Ion 61.90 (61.60 to 62.60): VN051157.D (-113) (-)

Ion 63.90 (63.60 to 64.60): VN051157.D (-113) (-)

2.19

100000

80000

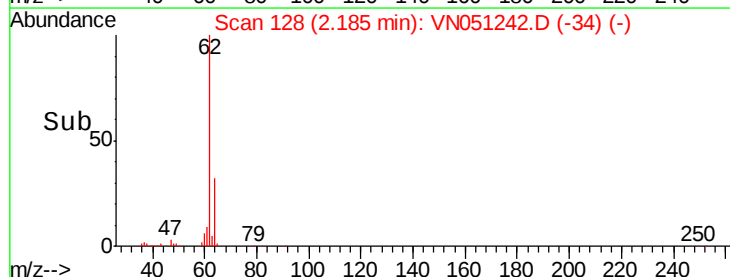
60000

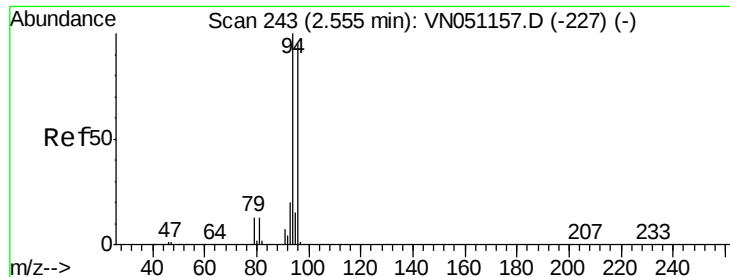
40000

20000

0

Time-->





#5

Bromomethane

Concen: 18.92 ug/l

RT: 2.57 min Scan# 247

Delta R.T. 0.00 min

Lab File: VN051242.D

Acq: 16 Sep 2018 00:06

Instrument :

MSVOA_N

ClientSampleId :

VN0915WBSD02

Tot Ion: 94 Resp: 88216

Ion Ratio Lower Upper

94 100

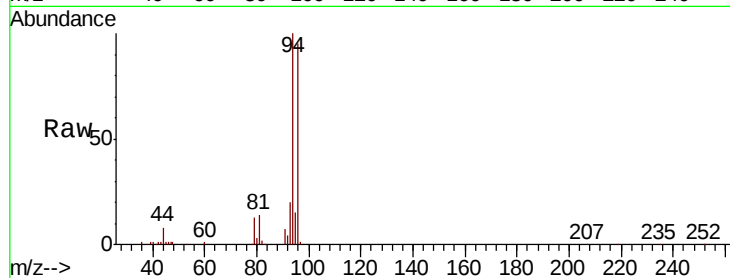
96 95.3 75.9 113.9

Manual Integrations

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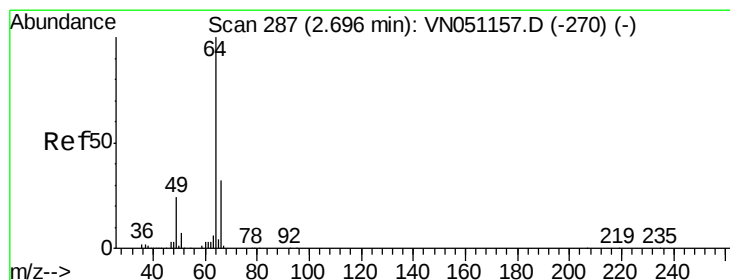
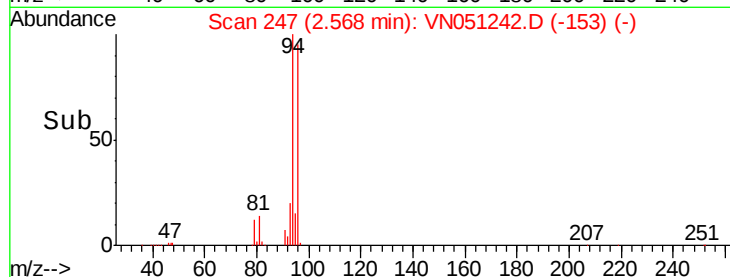
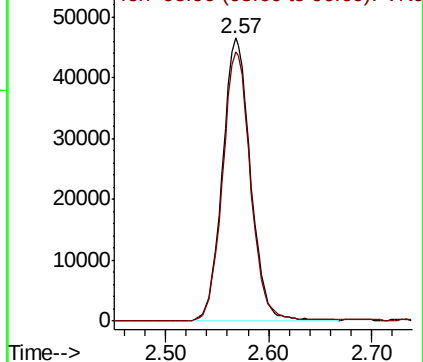
MMDadoda

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Abundance Ion 93.90 (93.60 to 94.60): VNC

Ion 95.90 (95.60 to 96.60): VNC



#6

Chloroethane

Concen: 17.79 ug/l

RT: 2.70 min Scan# 289

Delta R.T. 0.00 min

Lab File: VN051242.D

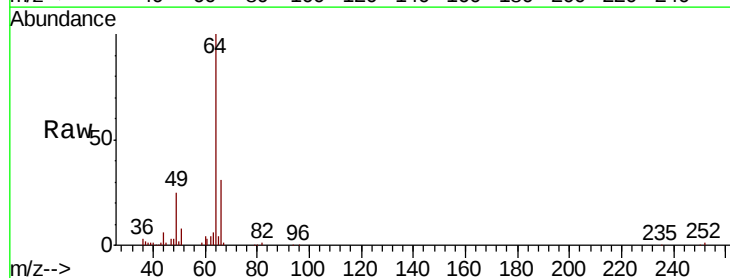
Acq: 16 Sep 2018 00:06

Tgt Ion: 64 Resp: 87878

Ion Ratio Lower Upper

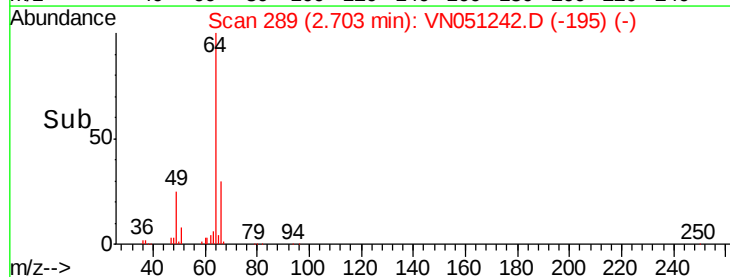
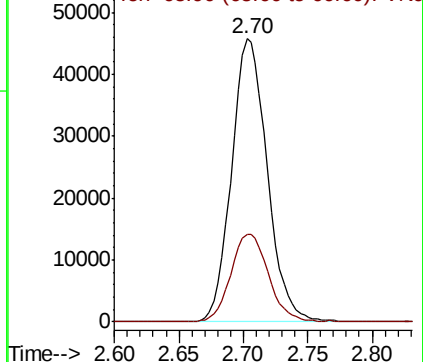
64 100

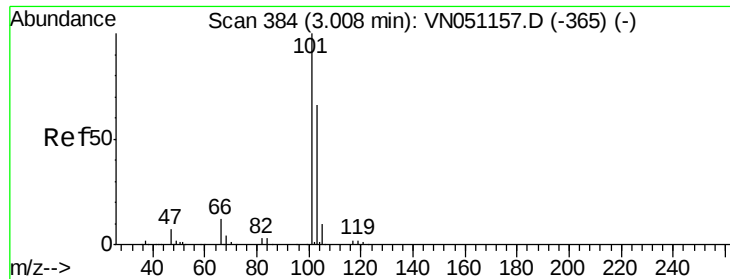
66 30.7 26.1 39.1



Abundance Ion 63.90 (63.60 to 64.60): VNC

Ion 65.90 (65.60 to 66.60): VNC





#7

Trichlorofluoromethane

Concen: 19.00 ug/l

RT: 3.01 min Scan# 386

Delta R.T. -0.00 min

Lab File: VN051242.D

Acq: 16 Sep 2018 00:06

Instrument :

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ClientSampleId :

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Tot Ion:101 Resp: 201474

Ion Ratio Lower Upper

101 100

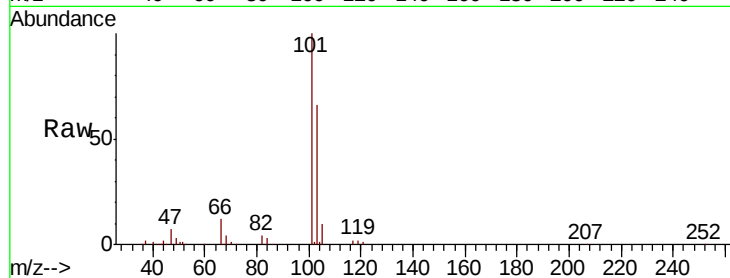
103 66.0 52.4 78.6

Manual Integrations

APPROVED

MMDadoda

9/18/2018 4:32:04 PM



Abundance Ion 100.90 (100.60 to 101.60): V

Ion 102.80 (102.50 to 103.50): V

3.01

100000

80000

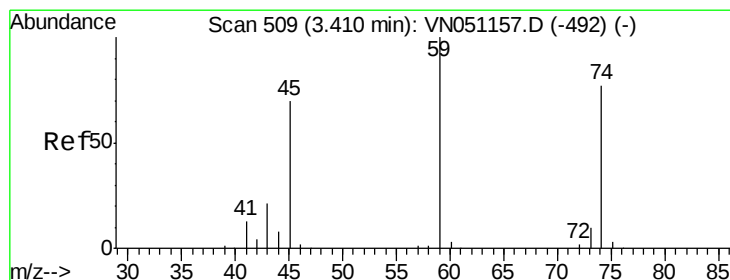
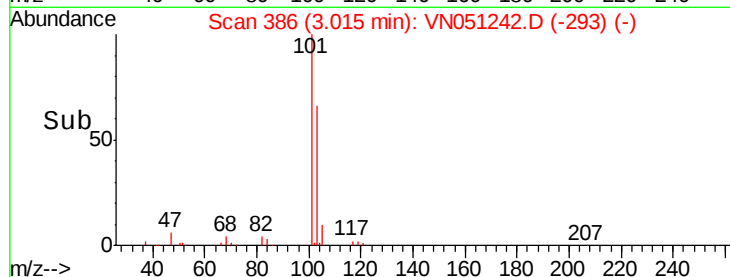
60000

40000

20000

0

Time--> 2.90 3.00 3.10



#8

Diethyl Ether

Concen: 16.76 ug/l

RT: 3.41 min Scan# 510

Delta R.T. 0.00 min

Lab File: VN051242.D

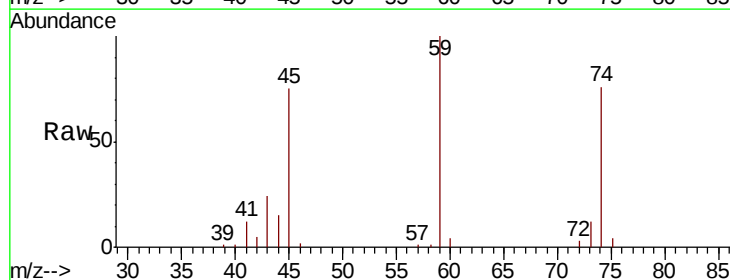
Acq: 16 Sep 2018 00:06

Tgt Ion: 74 Resp: 65355

Ion Ratio Lower Upper

74 100

45 93.5 46.7 140.0



Abundance Ion 74.00 (73.70 to 74.70): VNO

Ion 45.00 (44.70 to 45.70): VNO

3.41

30000

25000

20000

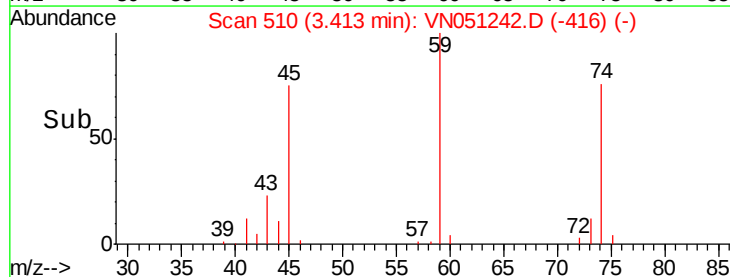
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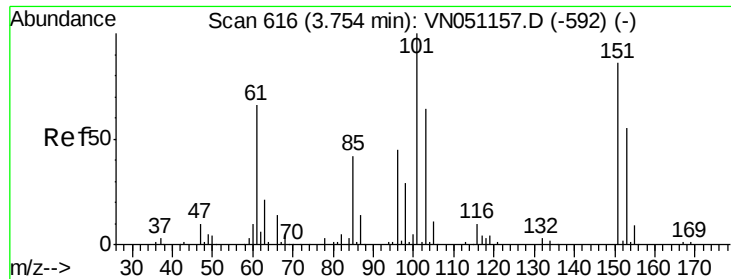
10000

5000

0

Time--> 3.35 3.40 3.45 3.50





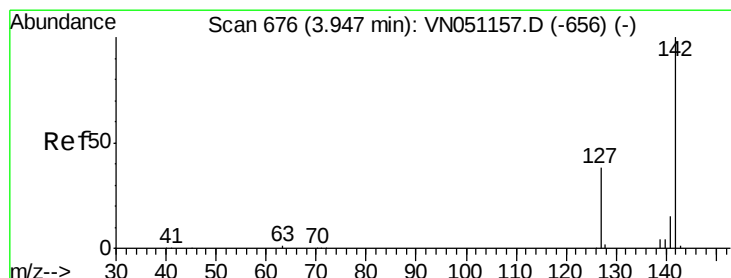
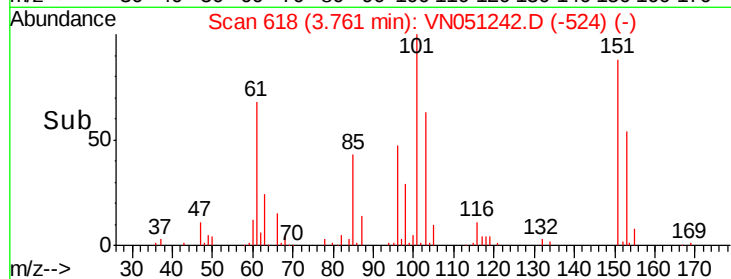
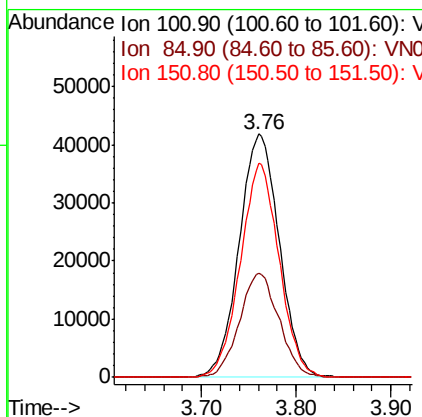
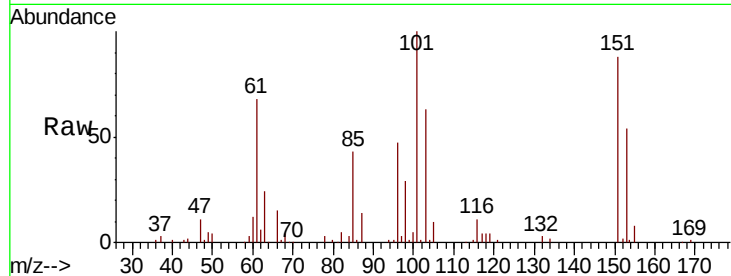
#9
 1,1,2-Trichlorotrifluoroethane
 Concen: 18.01 ug/l
 RT: 3.76 min Scan# 618
 Delta R.T. 0.00 min
 Lab File: VN051242.D
 Acq: 16 Sep 2018 00:06

Instrument :
 MSVOA_N
 ClientSampleId :
 VN0915WBSD02

Tot Ion	Ratio	Resp	Lower	Upper
101	100	123148		
85	42.0	33.3	49.9	
151	84.9	68.2	102.2	

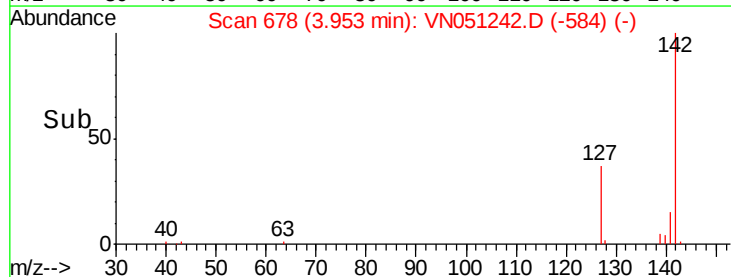
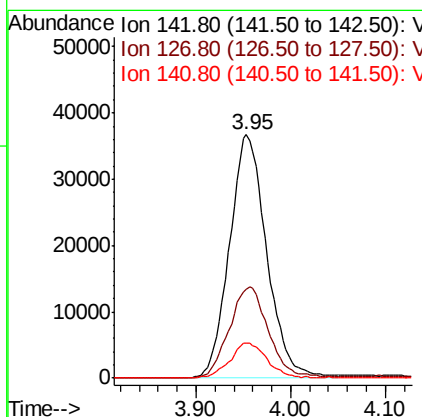
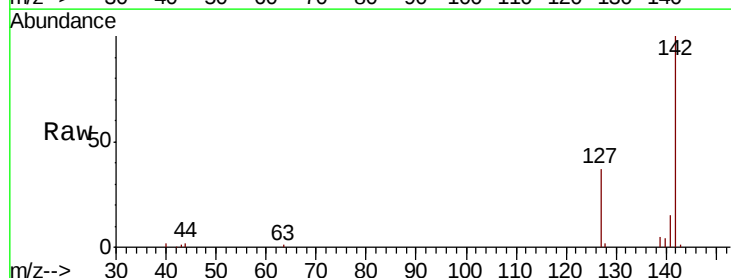
Manual Integrations
 APPROVED

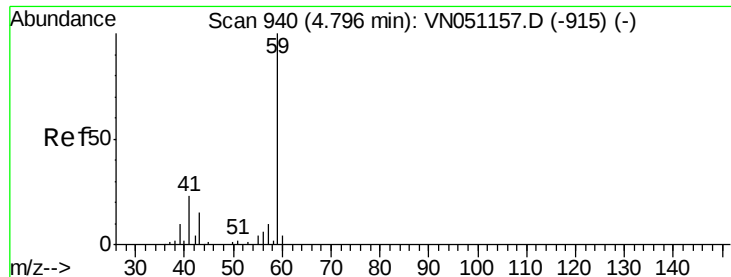
MMDadoda
 9/18/2018 4:32:04 PM



#10
 Methyl Iodide
 Concen: 19.60 ug/l
 RT: 3.95 min Scan# 678
 Delta R.T. 0.00 min
 Lab File: VN051242.D
 Acq: 16 Sep 2018 00:06

Tgt Ion	Ratio	Resp	Lower	Upper
142	100	100668		
127	39.4	31.0	46.4	
141	14.4	11.3	16.9	





#11

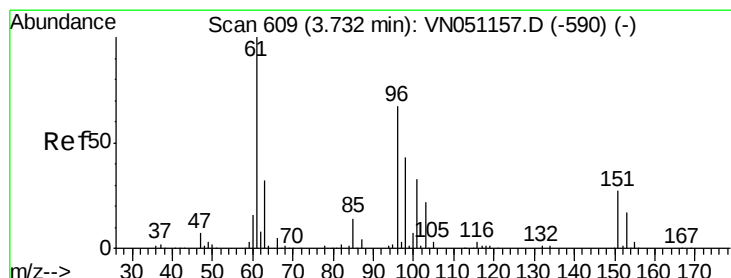
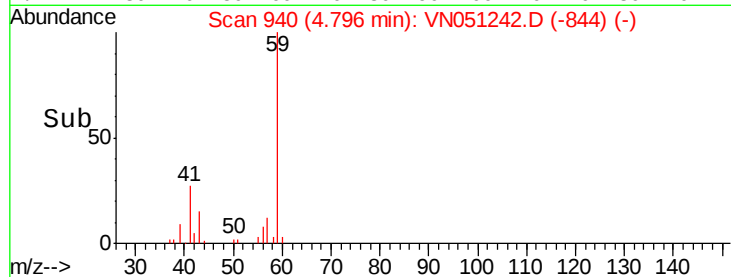
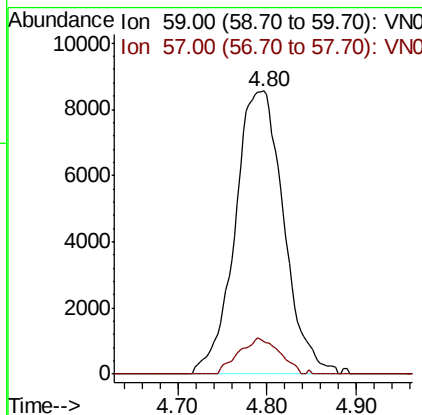
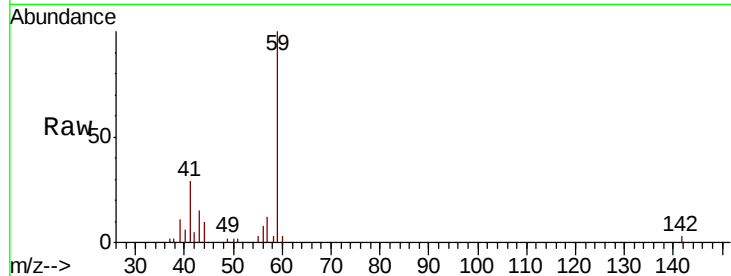
Tert butyl alcohol
 Concen: 62.95 ug/l
 RT: 4.80 min Scan# 940
 Delta R.T. 0.01 min
 Lab File: VN051242.D
 Acq: 16 Sep 2018 00:06

Instrument :
 MSVOA_N
 ClientSampleId :
 VN0915WBSD02

Tot Ion	Ratio	Lower	Upper
59	100		
57	10.7	8.1	12.1

Manual Integrations
 APPROVED

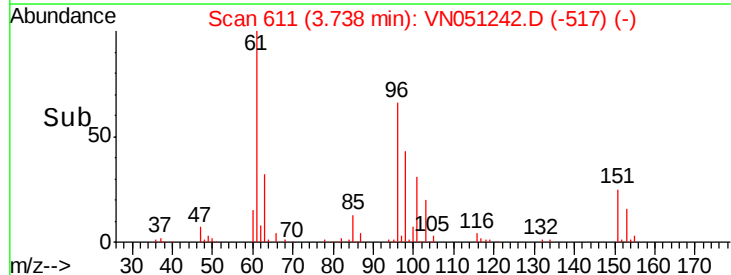
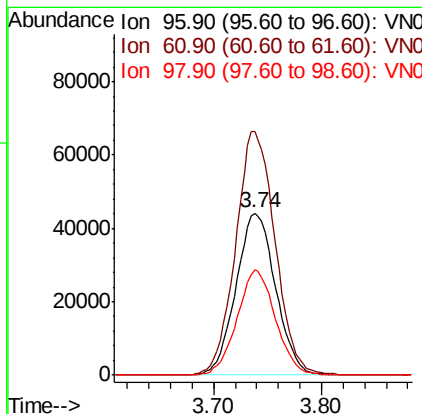
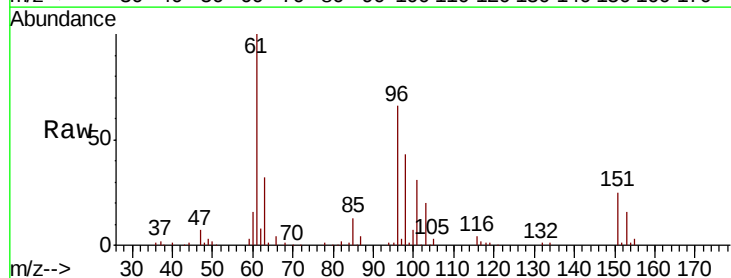
MMDadoda
 9/18/2018 4:32:04 PM

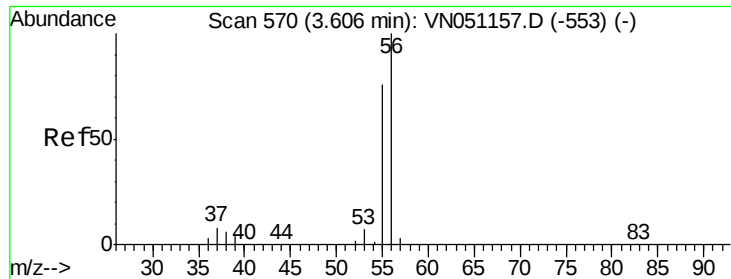


#12

1,1-Dichloroethene
 Concen: 17.49 ug/l
 RT: 3.74 min Scan# 611
 Delta R.T. 0.00 min
 Lab File: VN051242.D
 Acq: 16 Sep 2018 00:06

Tgt Ion	Ratio	Lower	Upper
96	100		
61	150.5	120.3	180.5
98	65.1	50.8	76.2





#13

Acrolein

Concen: 56.35 ug/l

RT: 3.61 min Scan# 571

Delta R.T. 0.00 min

Lab File: VN051242.D

Acq: 16 Sep 2018 00:06

Instrument :

MSVOA_N

ClientSampleId :

VN0915WBSD02

Tot Ion: 56 Resp: 22277

Ion Ratio Lower Upper

56 100

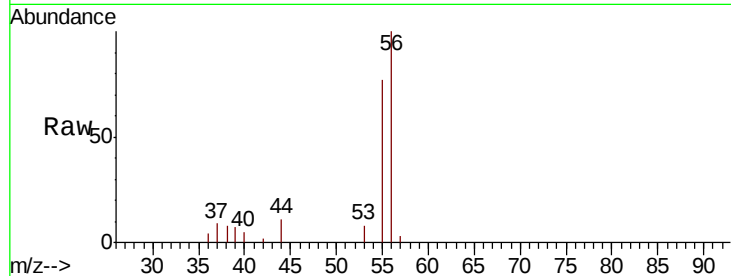
55 69.1 58.0 87.0

Manual Integrations

APPROVED

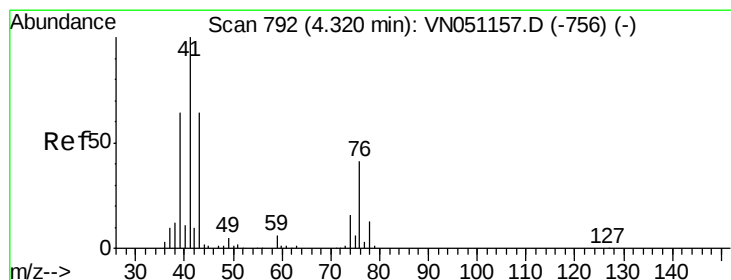
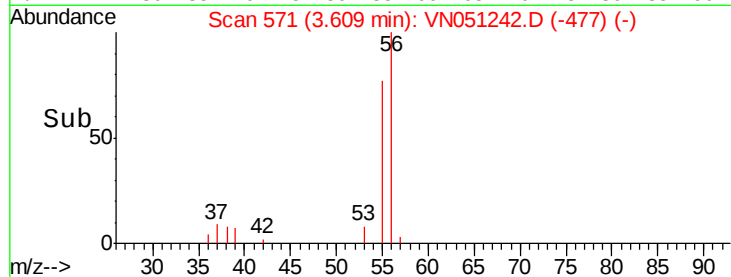
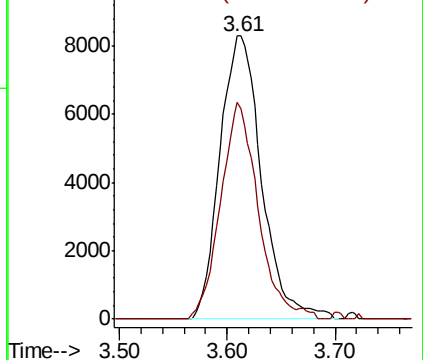
MMDadoda

9/18/2018 4:32:04 PM



Abundance Ion 56.00 (55.70 to 56.70): VN0

Ion 55.00 (54.70 to 55.70): VN0



#14

Allyl chloride

Concen: 16.42 ug/l

RT: 4.33 min Scan# 794

Delta R.T. 0.00 min

Lab File: VN051242.D

Acq: 16 Sep 2018 00:06

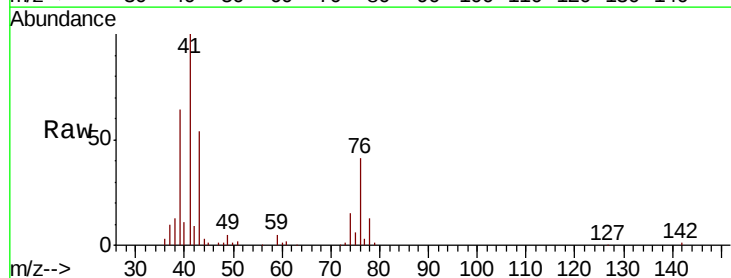
Tgt Ion: 41 Resp: 161335

Ion Ratio Lower Upper

41 100

39 61.2 48.8 73.2

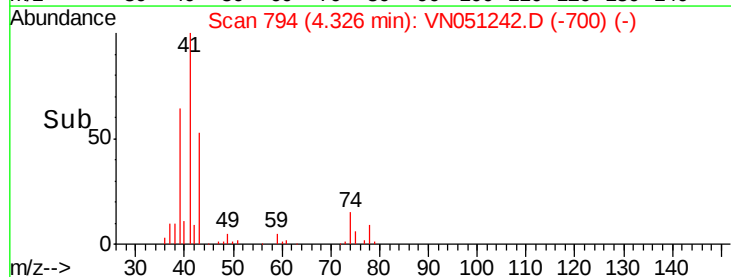
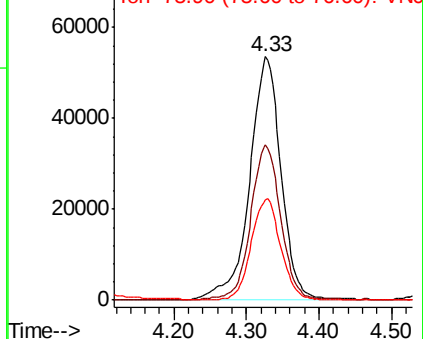
76 39.0 30.6 45.8

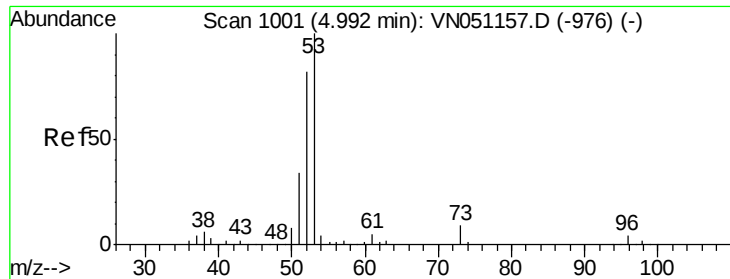


Abundance Ion 41.00 (40.70 to 41.70): VN0

Ion 39.00 (38.70 to 39.70): VN0

Ion 75.90 (75.60 to 76.60): VN0





#15

Acrylonitrile

Concen: 78.55 ug/l

RT: 5.00 min Scan# 1002

Delta R.T. 0.01 min

Lab File: VN051242.D

Acq: 16 Sep 2018 00:06

Instrument :

MSVOA_N

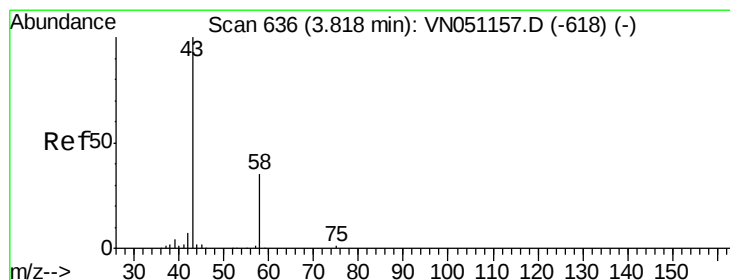
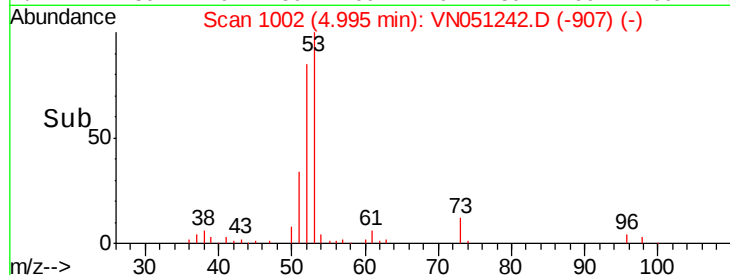
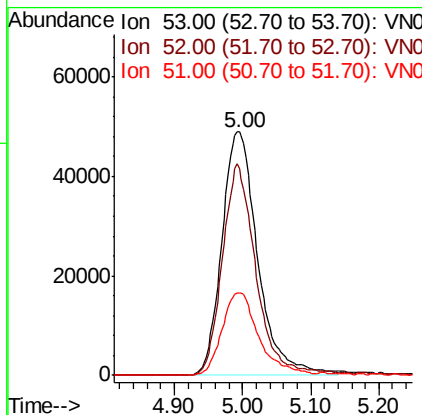
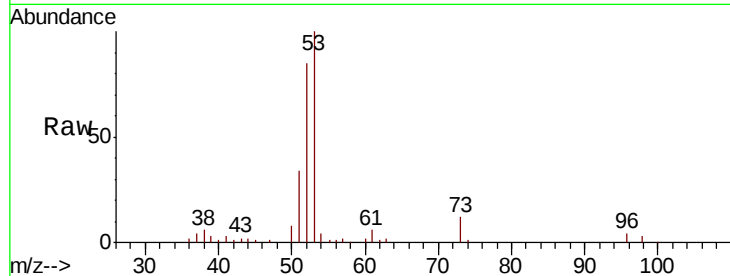
ClientSampleId :

VN0915WBSD02

Tot Ion:	53	Resp:	178871
Ion	Ratio	Lower	Upper
53	100		
52	80.5	65.3	97.9
51	35.0	28.2	42.2

Manual Integrations
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#16

Acetone

Concen: 65.31 ug/l

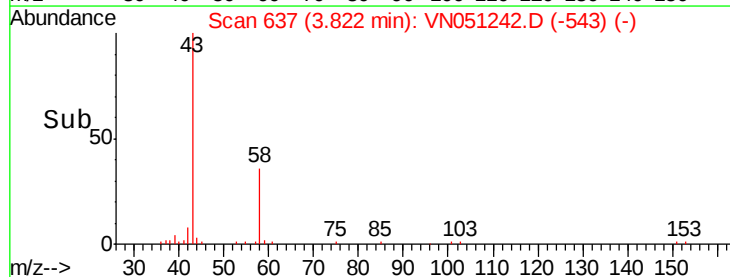
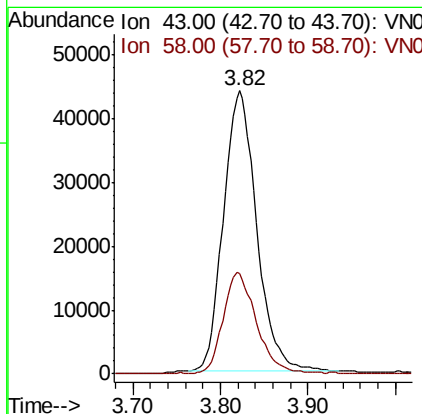
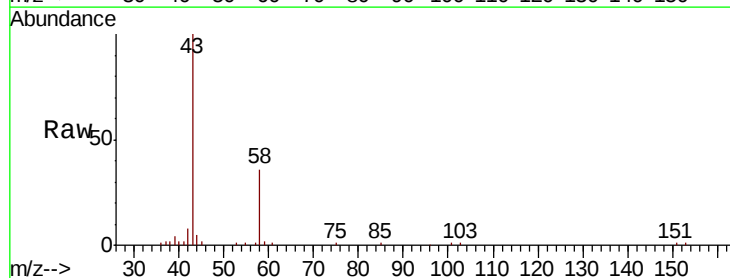
RT: 3.82 min Scan# 637

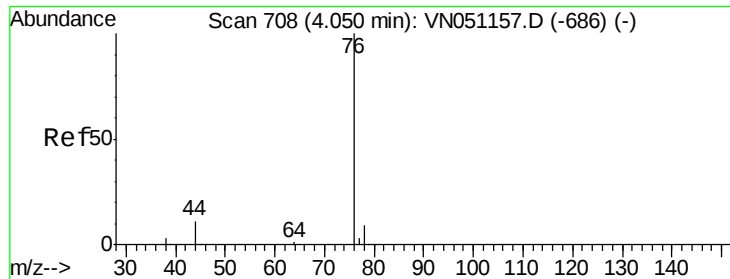
Delta R.T. 0.00 min

Lab File: VN051242.D

Acq: 16 Sep 2018 00:06

Tgt Ion:	43	Resp:	115827
Ion	Ratio	Lower	Upper
43	100		
58	35.6	27.8	41.6





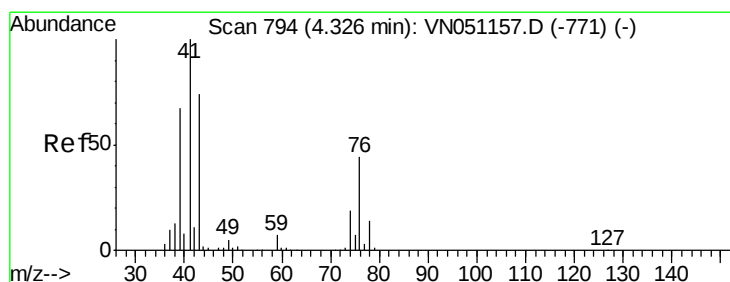
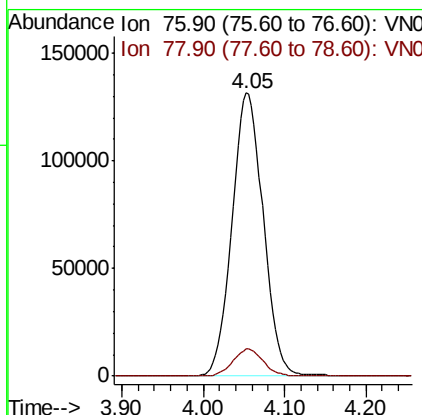
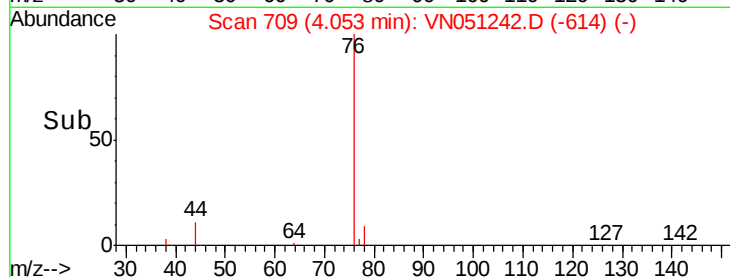
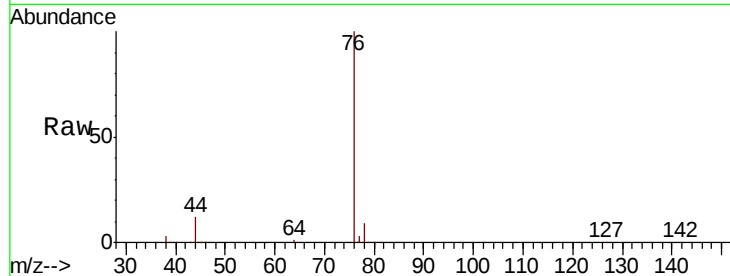
#17
Carbon Disulfide
Concen: 18.50 ug/l
RT: 4.05 min Scan# 709
Delta R.T. 0.00 min
Lab File: VN051242.D
Acq: 16 Sep 2018 00:06

Instrument :
MSVOA_N
ClientSampleId :
VN0915WBSD02

Tot Ion	Ratio	Lower	Upper
76	100		
78	9.5	7.0	10.6

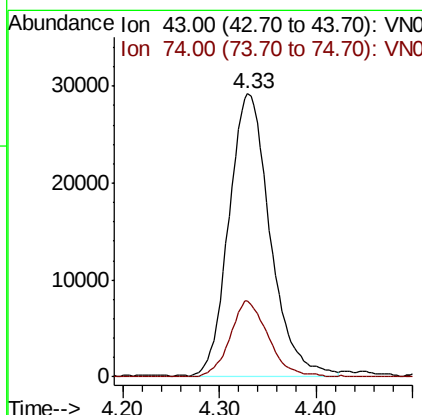
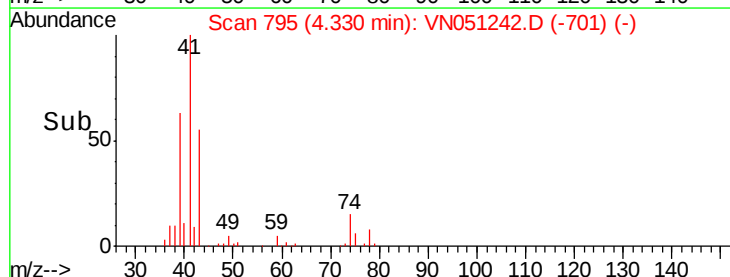
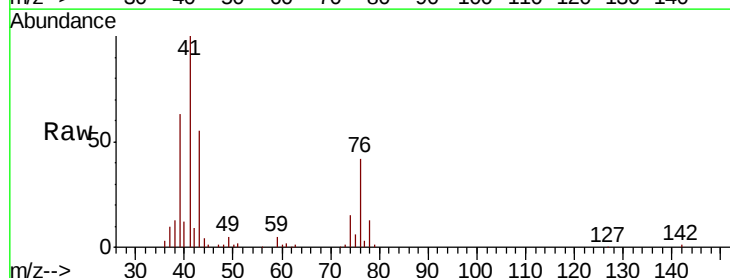
Manual Integrations
APPROVED

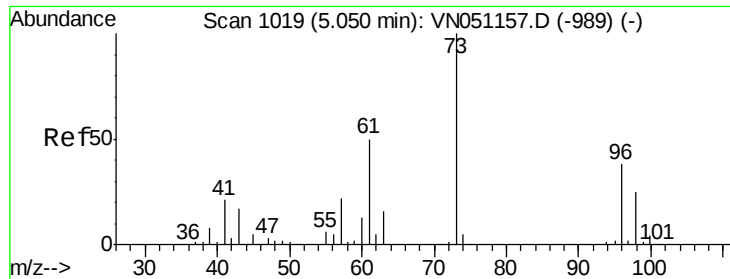
MMDadoda
9/18/2018 4:32:04 PM



#18
Methyl Acetate
Concen: 16.14 ug/l
RT: 4.33 min Scan# 795
Delta R.T. 0.00 min
Lab File: VN051242.D
Acq: 16 Sep 2018 00:06

Tgt Ion	Ratio	Lower	Upper
43	100		
74	24.8	20.7	31.1





#19

Methyl tert-butyl Ether

Concen: 16.23 ug/l

RT: 5.05 min Scan# 1018

Delta R.T. -0.00 min

Lab File: VN051242.D

Acq: 16 Sep 2018 00:06

Instrument :

MSVOA_N

ClientSampleId :

VN0915WBSD02

Tot Ion: 73 Resp: 276613

Ion Ratio Lower Upper

73 100

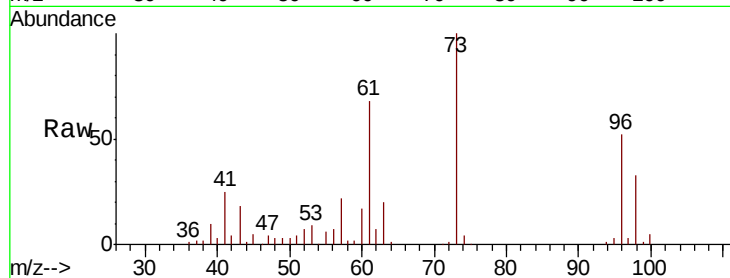
57 22.3 17.9 26.9

Manual Integrations

APPROVED

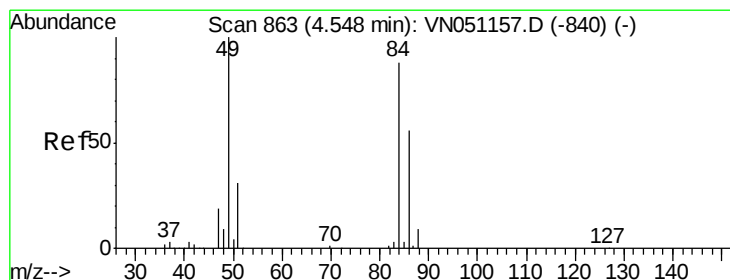
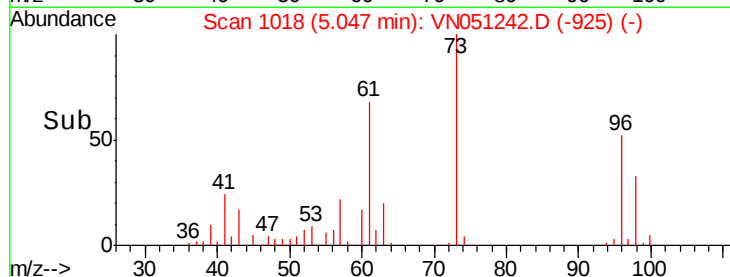
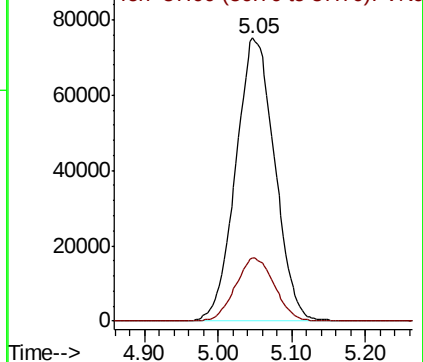
MMDadoda

9/18/2018 4:32:04 PM



Abundance Ion 73.00 (72.70 to 73.70): VN051157.D (-989) (-)

Ion 57.00 (56.70 to 57.70): VN051157.D (-989) (-)



#20

Methylene Chloride

Concen: 17.89 ug/l

RT: 4.56 min Scan# 866

Delta R.T. 0.01 min

Lab File: VN051242.D

Acq: 16 Sep 2018 00:06

Tgt Ion: 84 Resp: 132951

Ion Ratio Lower Upper

84 100

49 112.2 90.2 135.2

51 34.9 28.4 42.6

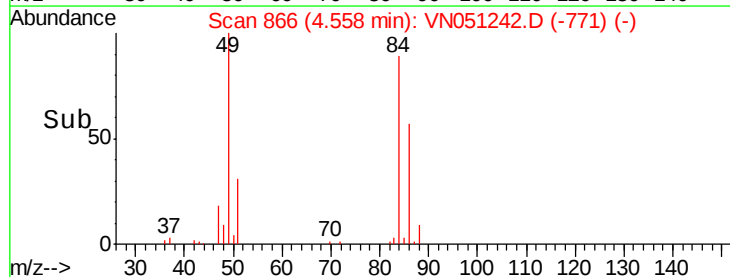
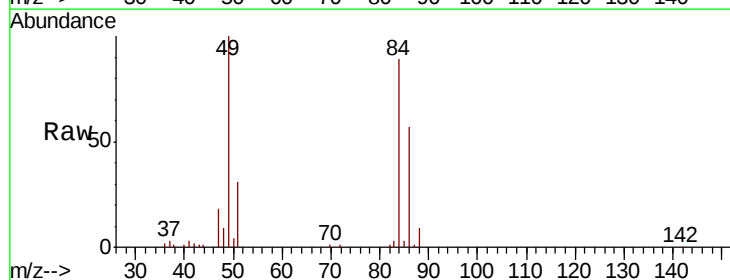
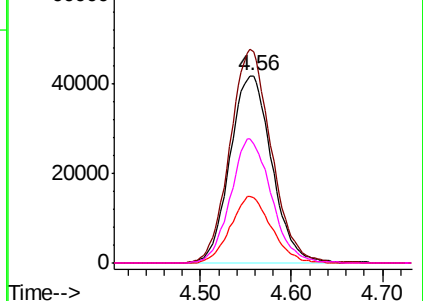
86 64.0 51.8 77.8

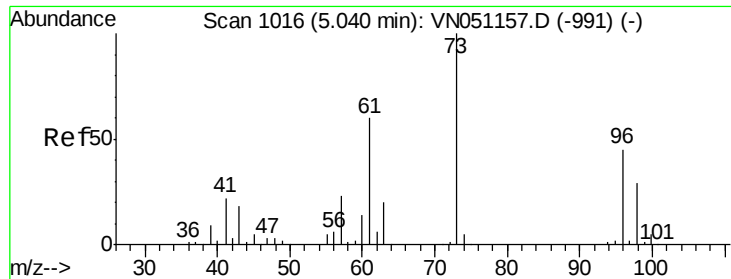
Abundance Ion 83.90 (83.60 to 84.60): VN051157.D (-840) (-)

Ion 48.90 (48.60 to 49.60): VN051157.D (-840) (-)

Ion 50.90 (50.60 to 51.60): VN051157.D (-840) (-)

Ion 85.90 (85.60 to 86.60): VN051157.D (-840) (-)





#21

trans-1,2-Dichloroethene

Concen: 17.34 ug/l

RT: 5.04 min Scan# 1017

Delta R.T. -0.00 min

Lab File: VN051242.D

Acq: 16 Sep 2018 00:06

Instrument :

MSVOA_N

ClientSampleId :

VN0915WBSD02

Tot Ion: 96 Resp: 121314

Ion Ratio Lower Upper

96 100

61 128.0 106.5 159.7

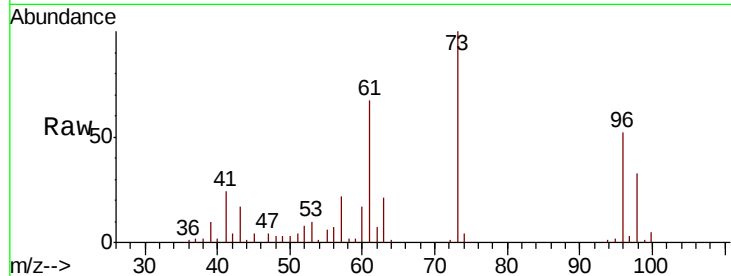
98 63.8 50.4 75.6

Manual Integrations

APPROVED

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9/18/2018 4:32:04 PM

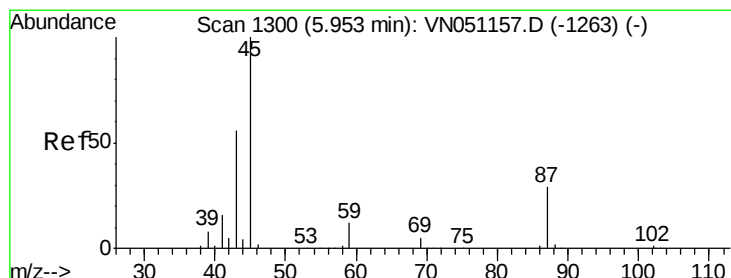
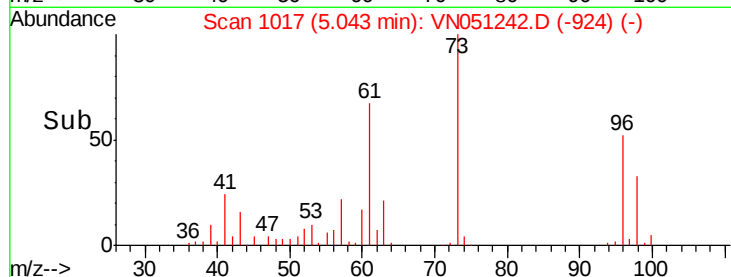
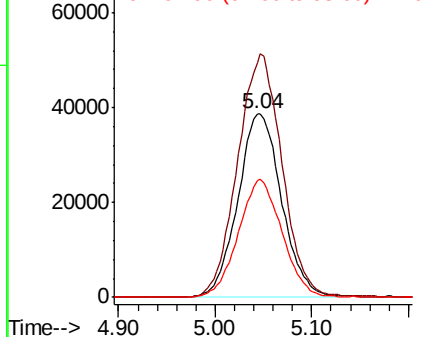


Abundance

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: 18.23 ug/l

RT: 5.96 min Scan# 1301

Delta R.T. 0.01 min

Lab File: VN051242.D

Acq: 16 Sep 2018 00:06

Tgt Ion: 45 Resp: 355517

Ion Ratio Lower Upper

45 100

43 59.2 48.8 73.2

87 29.8 23.8 35.8

59 12.2 9.6 14.4

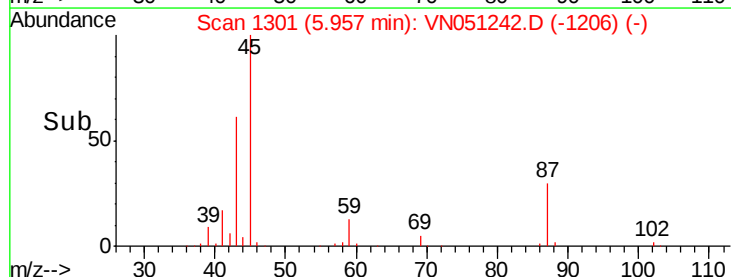
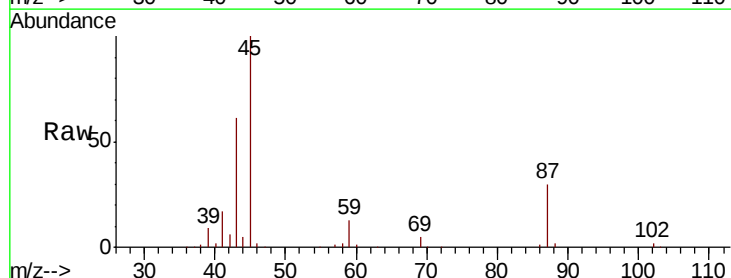
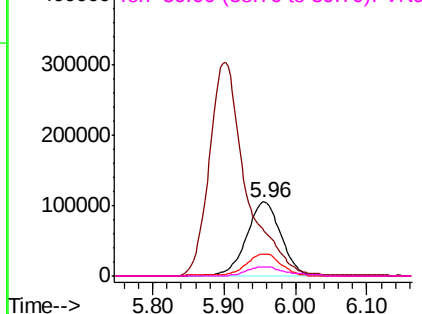
Abundance

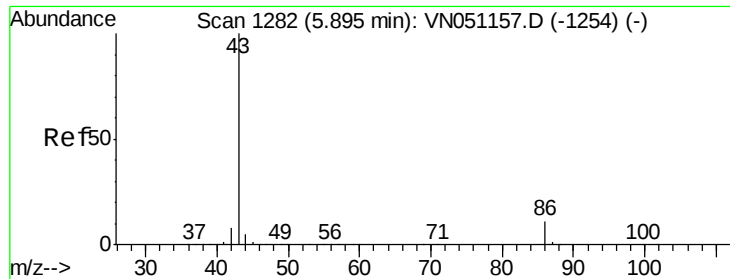
Ion 45.00 (44.70 to 45.70): VNC

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: 82.13 ug/l

RT: 5.90 min Scan# 1284

Delta R.T. 0.01 min

Lab File: VN051242.D

Acq: 16 Sep 2018 00:06

Instrument :

MSVOA_N

ClientSampleId :

VN0915WBSD02

Tot Ion: 43 Resp: 1084046

Ion Ratio Lower Upper

43 100

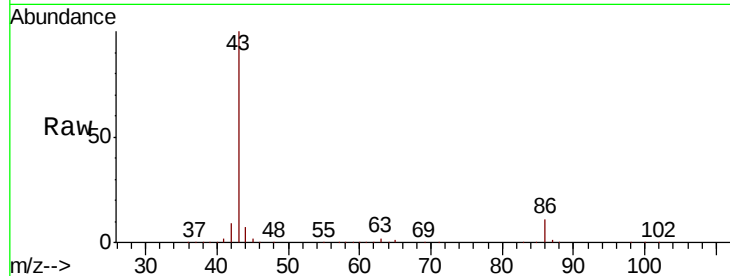
86 11.5 9.2 13.8

Manual Integrations

APPROVED

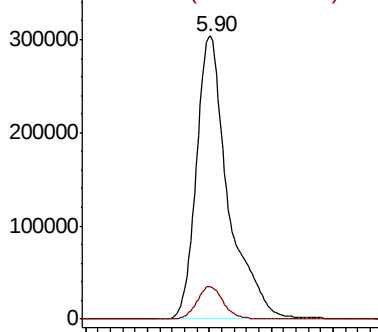
MMDadoda

9/18/2018 4:32:04 PM

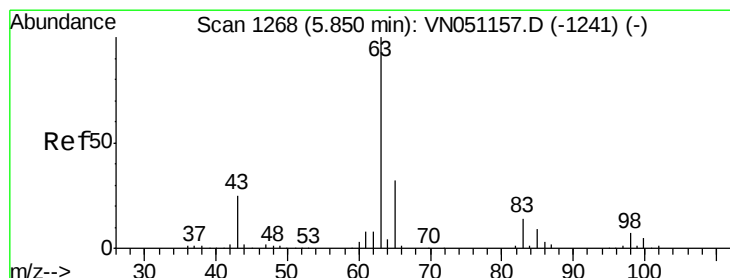
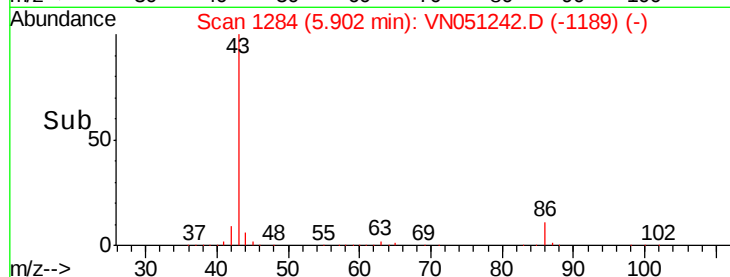


Abundance Ion 43.00 (42.70 to 43.70): VNO

Ion 86.00 (85.70 to 86.70): VNO



Time-->



#24

1,1-Dichloroethane

Concen: 18.09 ug/l

RT: 5.85 min Scan# 1268

Delta R.T. -0.00 min

Lab File: VN051242.D

Acq: 16 Sep 2018 00:06

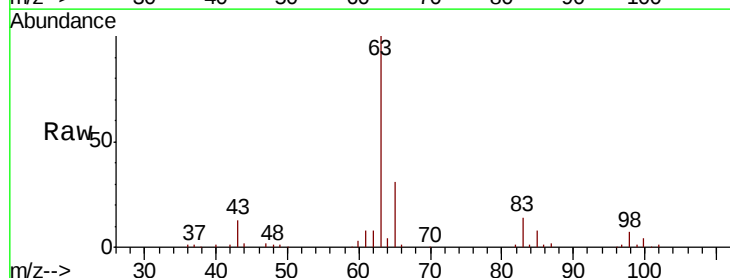
Tgt Ion: 63 Resp: 223849

Ion Ratio Lower Upper

63 100

98 7.3 3.4 10.1

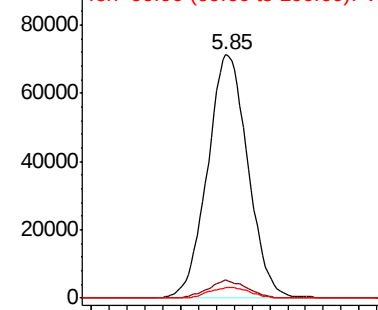
100 4.2 2.1 6.3



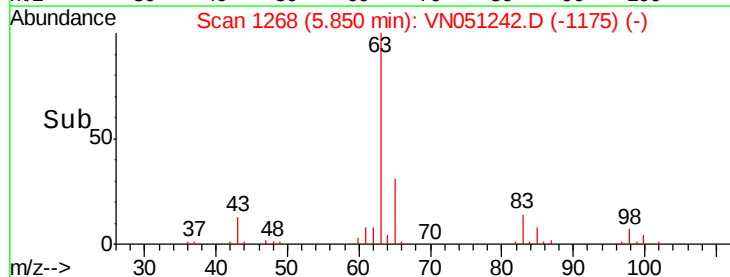
Abundance Ion 62.90 (62.60 to 63.60): VNO

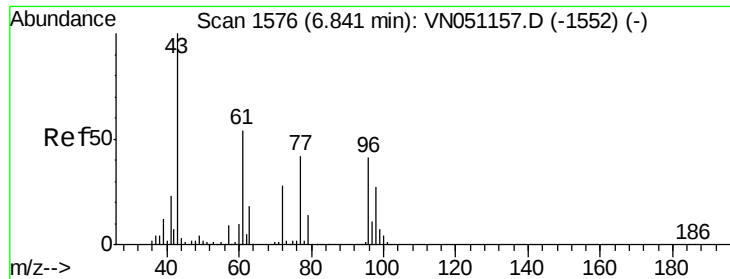
Ion 97.90 (97.60 to 98.60): VNO

Ion 99.90 (99.60 to 100.60): VNO



Time-->





#25

2-Butanone

Concen: 65.95 ug/l

RT: 6.84 min Scan# 1576

Delta R.T. 0.00 min

Lab File: VN051242.D

Acq: 16 Sep 2018 00:06

Instrument :

MSVOA_N

ClientSampleId :

VN0915WBSD02

Tot Ion: 43 Resp: 174467

Ion Ratio Lower Upper

43 100

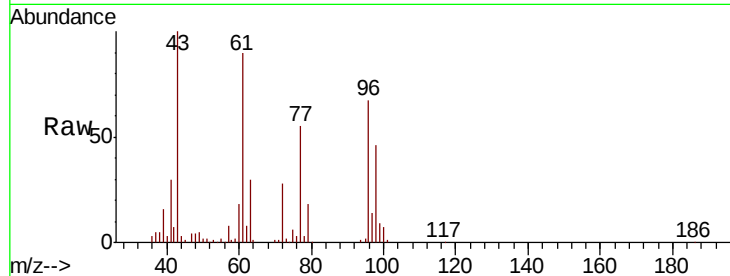
72 28.5 23.0 34.6

Manual Integrations

APPROVED

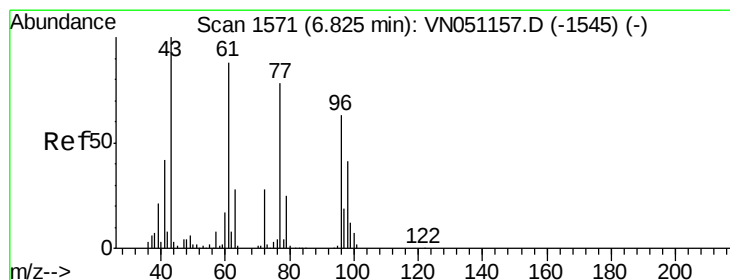
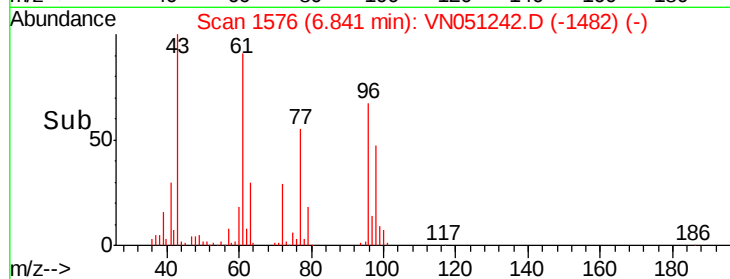
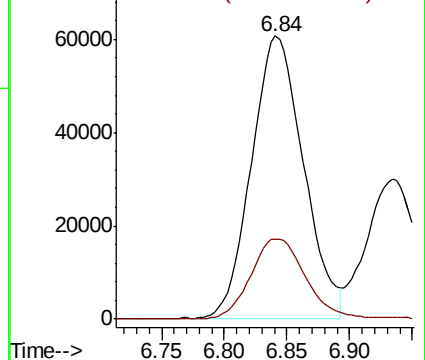
MMDadoda

9/18/2018 4:32:04 PM



Abundance Ion 43.00 (42.70 to 43.70): VN0

Ion 72.00 (71.70 to 72.70): VN0



#26

2,2-Dichloropropane

Concen: 12.79 ug/l

RT: 6.83 min Scan# 1573

Delta R.T. 0.01 min

Lab File: VN051242.D

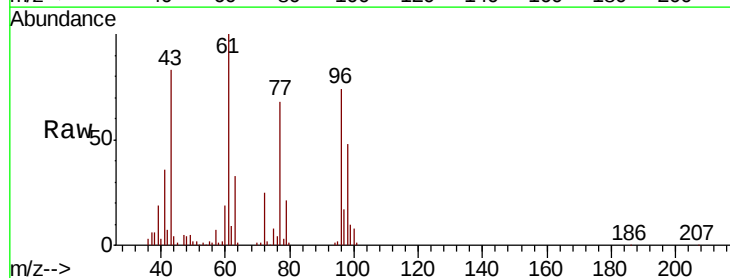
Acq: 16 Sep 2018 00:06

Tgt Ion: 77 Resp: 129543

Ion Ratio Lower Upper

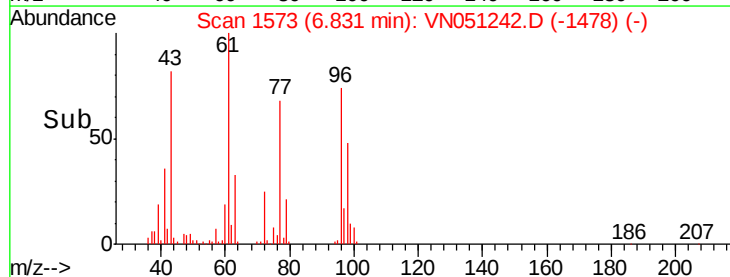
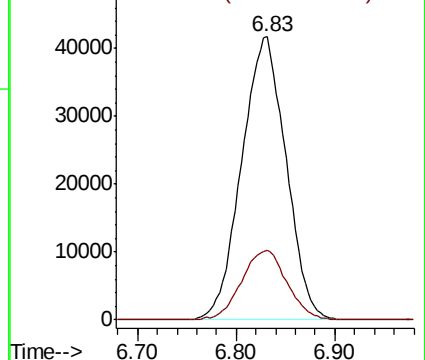
77 100

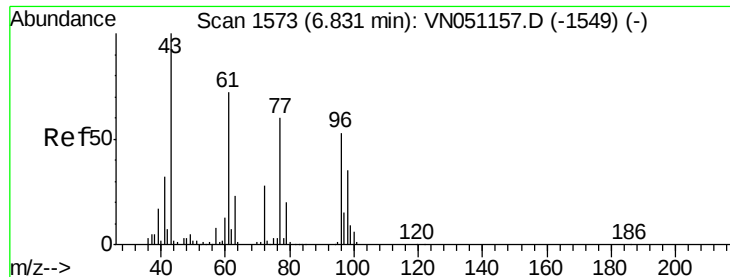
97 25.1 12.1 36.3



Abundance Ion 76.90 (76.60 to 77.60): VN0

Ion 96.90 (96.60 to 97.60): VN0





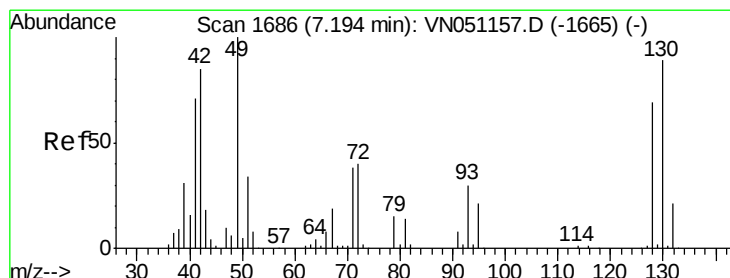
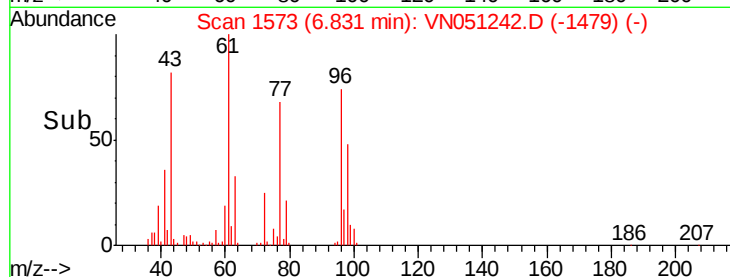
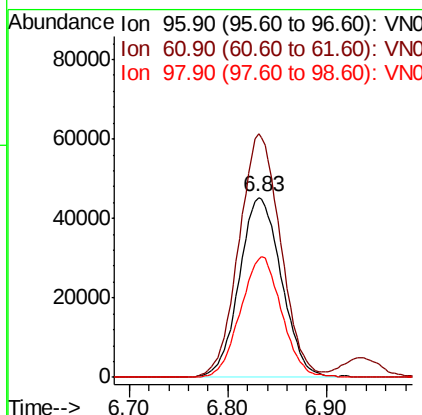
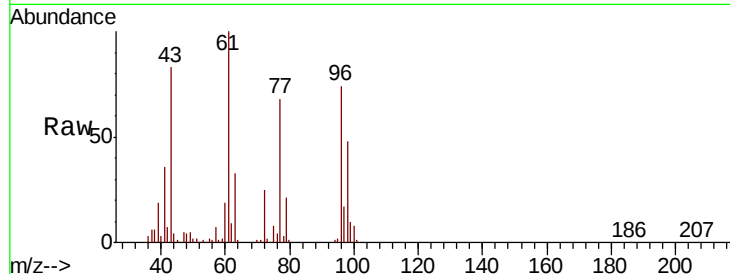
#27
 cis-1,2-Dichloroethene
 Concen: 17.44 ug/l
 RT: 6.83 min Scan# 1573
 Delta R.T. 0.00 min
 Lab File: VN051242.D
 Acq: 16 Sep 2018 00:06

Instrument :
 MSVOA_N
 ClientSampleId :
 VN0915WBSD02

Tot Ion	Ratio	Resp	Lower	Upper
96	100	133864		
61	134.0	0.0	278.2	
98	65.5	0.0	129.4	

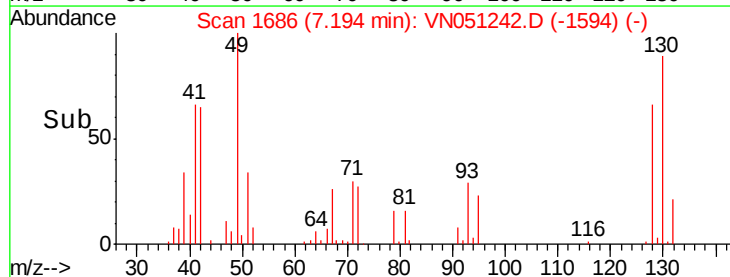
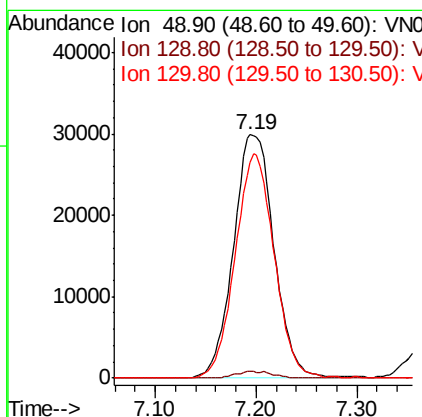
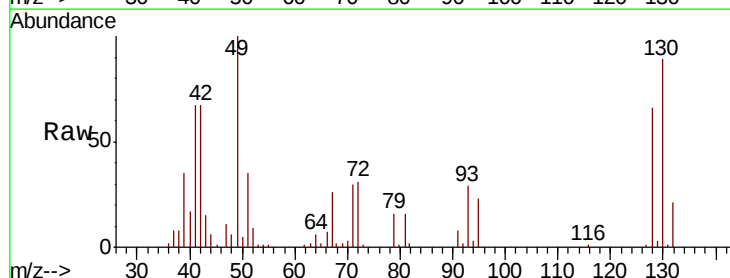
Manual Integrations
 APPROVED

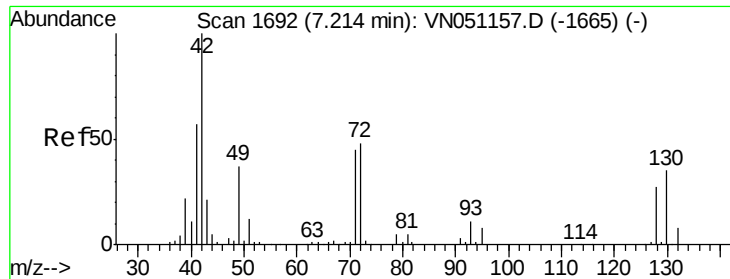
MMDadoda
 9/18/2018 4:32:04 PM



#28
 Bromochloromethane
 Concen: 15.09 ug/l
 RT: 7.19 min Scan# 1686
 Delta R.T. -0.00 min
 Lab File: VN051242.D
 Acq: 16 Sep 2018 00:06

Tgt Ion	Ratio	Resp	Lower	Upper
49	100	83123		
129	1.4	0.0	4.4	
130	88.6	70.7	106.1	





#29

Tetrahydrofuran

Concen: 72.56 ug/l

RT: 7.22 min Scan# 1693

Delta R.T. 0.00 min

Lab File: VN051242.D

Acq: 16 Sep 2018 00:06

Instrument :

MSVOA_N

ClientSampleId :

VN0915WBSD02

Tot Ion: 42 Resp: 119859

Ion Ratio Lower Upper

42 100

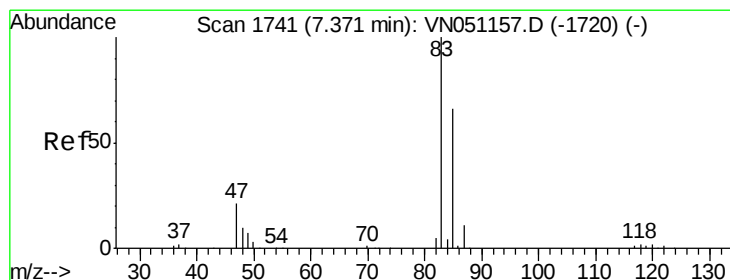
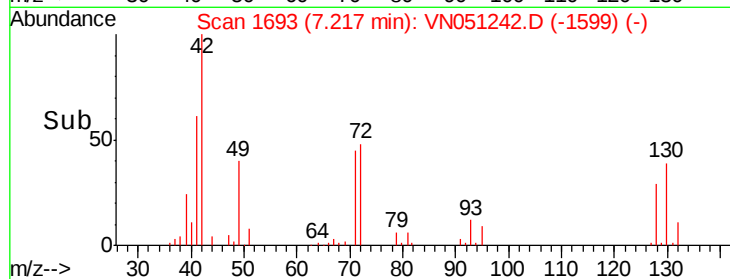
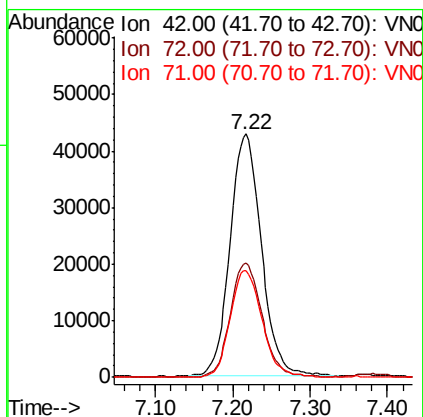
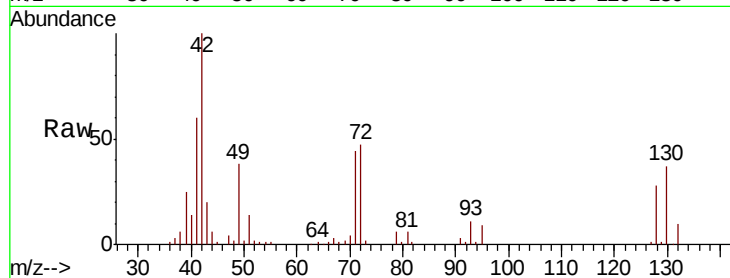
72 48.2 37.4 56.0

71 45.0 34.7 52.1

Manual Integrations
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#30

Chloroform

Concen: 18.52 ug/l

RT: 7.37 min Scan# 1742

Delta R.T. 0.00 min

Lab File: VN051242.D

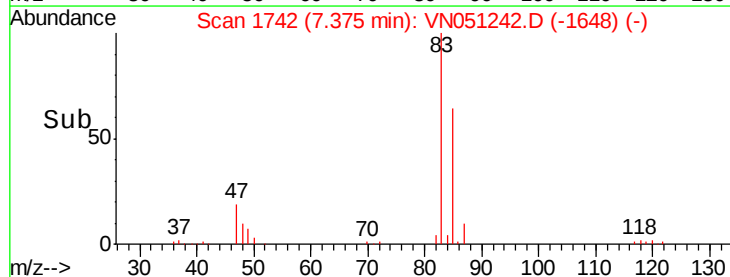
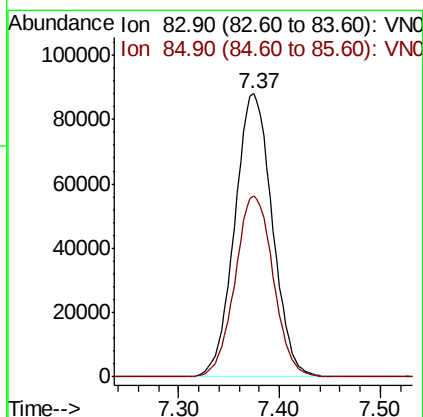
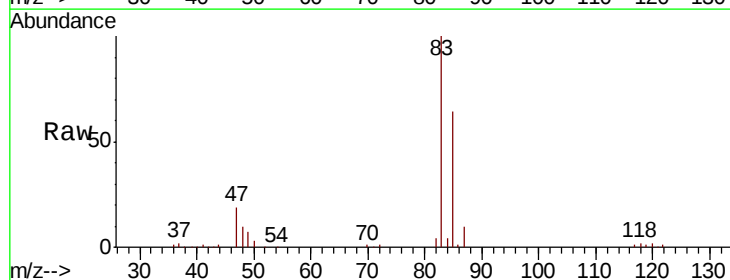
Acq: 16 Sep 2018 00:06

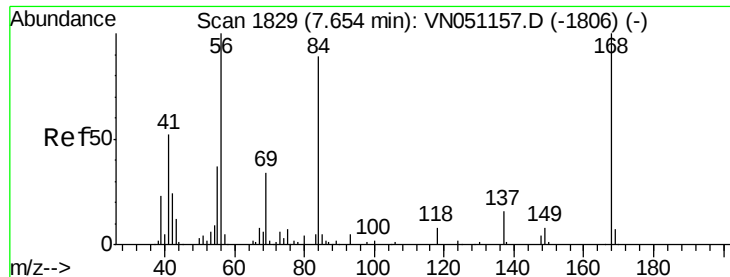
Tgt Ion: 83 Resp: 228028

Ion Ratio Lower Upper

83 100

85 63.9 52.6 79.0





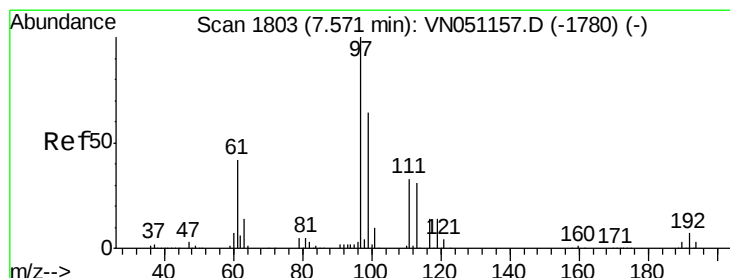
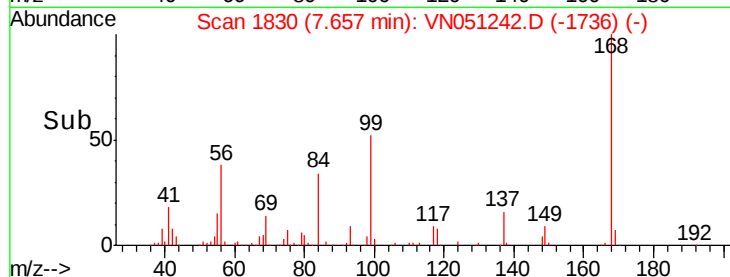
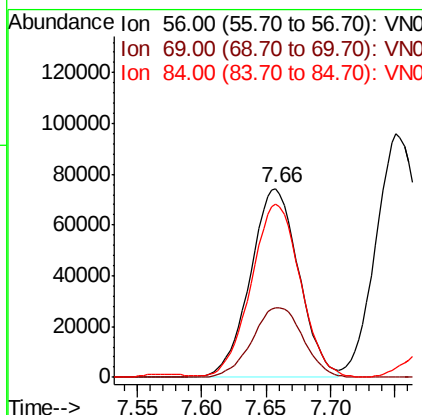
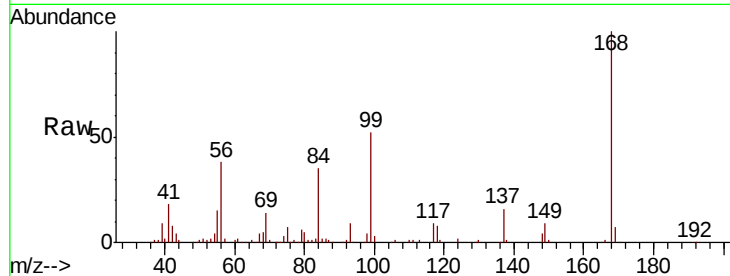
#31
Cyclohexane
Concen: 17.53 ug/l
RT: 7.66 min Scan# 1830
Delta R.T. 0.00 min
Lab File: VN051242.D
Acq: 16 Sep 2018 00:06

Instrument :
MSVOA_N
ClientSampleId :
VN0915WBSD02

Tot Ion	Ratio	Lower	Upper
56	100		
69	36.8	26.3	39.5
84	90.7	69.4	104.0

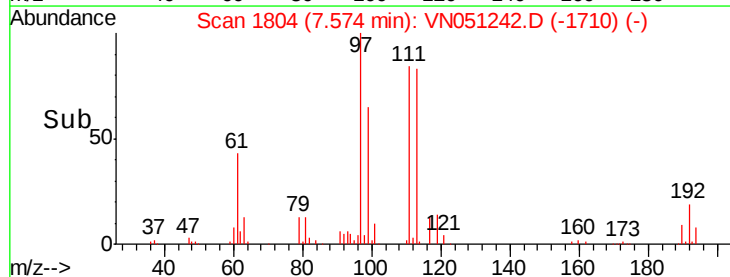
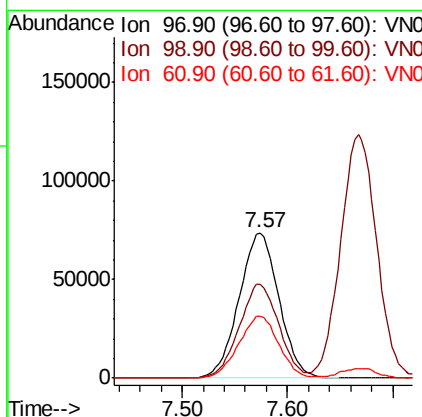
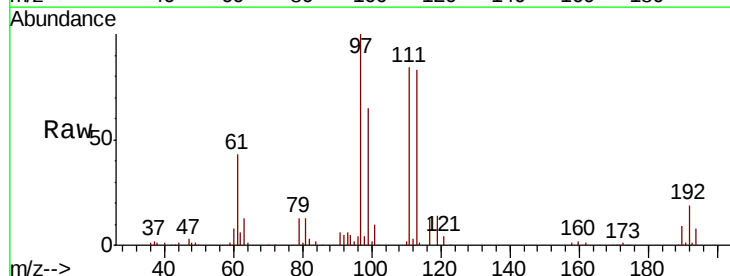
Manual Integrations
APPROVED

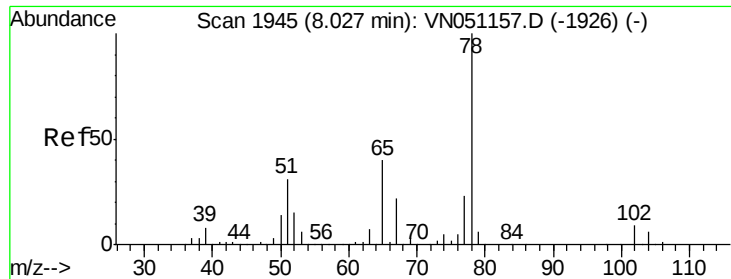
MMDadoda
9/18/2018 4:32:04 PM



#32
1,1,1-Trichloroethane
Concen: 18.45 ug/l
RT: 7.57 min Scan# 1804
Delta R.T. 0.00 min
Lab File: VN051242.D
Acq: 16 Sep 2018 00:06

Tgt Ion	Ratio	Lower	Upper
97	100		
99	64.5	51.6	77.4
61	42.9	33.8	50.6





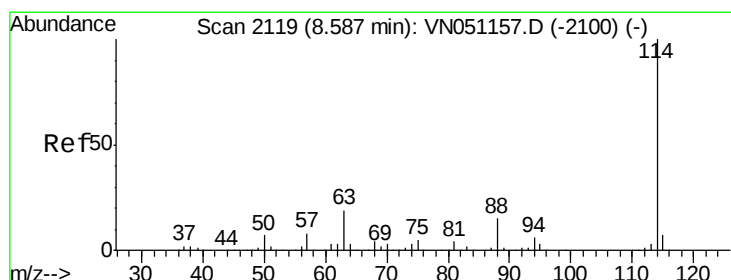
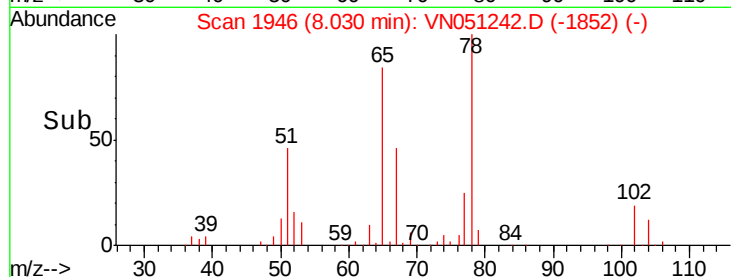
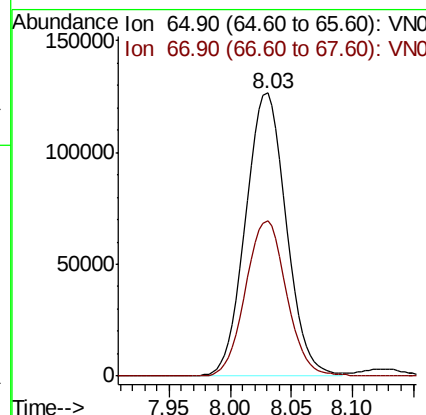
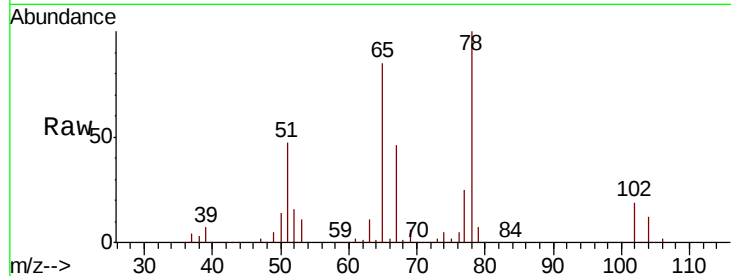
#33
 1,2-Dichloroethane-d4
 Concen: 43.45 ug/l
 RT: 8.03 min Scan# 1946
 Delta R.T. 0.00 min
 Lab File: VN051242.D
 Acq: 16 Sep 2018 00:06

Instrument :
 MSVOA_N
 ClientSampleId :
 VN0915WBSD02

Tot Ion	Ratio	Resp	Lower	Upper
65	100	292316		
67	55.3	0.0	112.0	

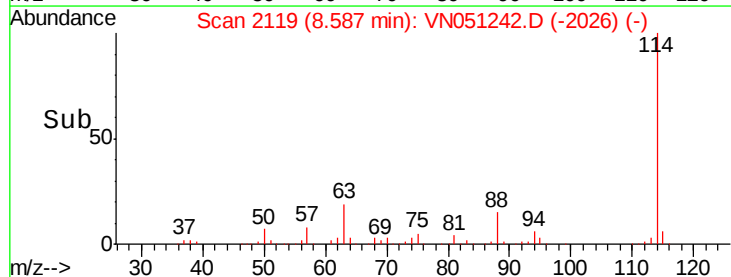
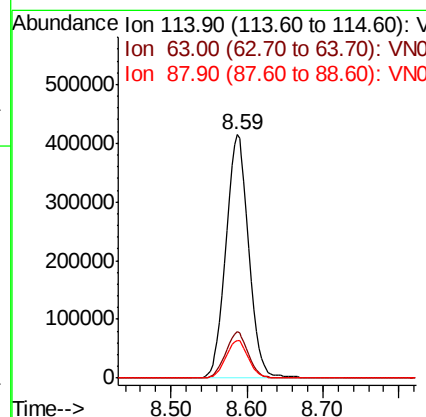
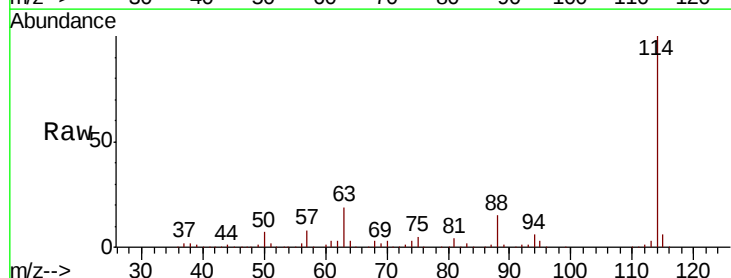
Manual Integrations
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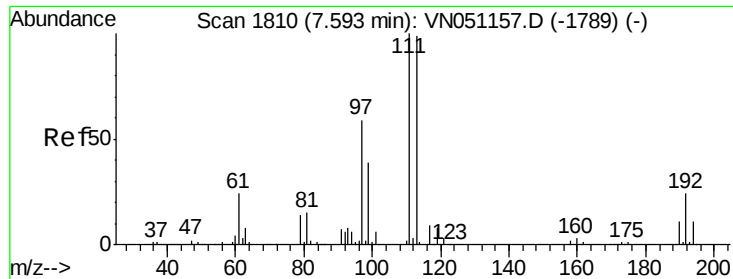
MMDadoda
 9/18/2018 4:32:04 PM



#34
 1,4-Difluorobenzene
 Concen: 50.00 ug/l
 RT: 8.59 min Scan# 2119
 Delta R.T. -0.00 min
 Lab File: VN051242.D
 Acq: 16 Sep 2018 00:06

Tgt Ion	Ratio	Resp	Lower	Upper
114	100	865695		
63	19.0	0.0	37.8	
88	15.4	0.0	30.8	





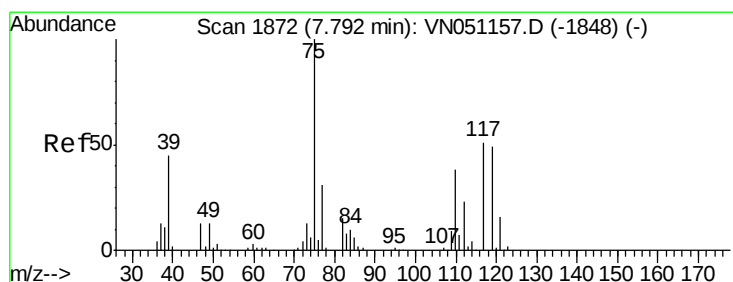
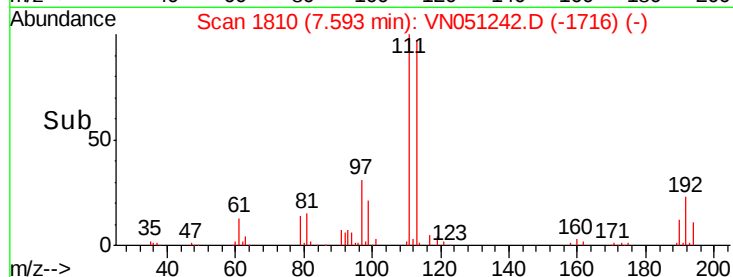
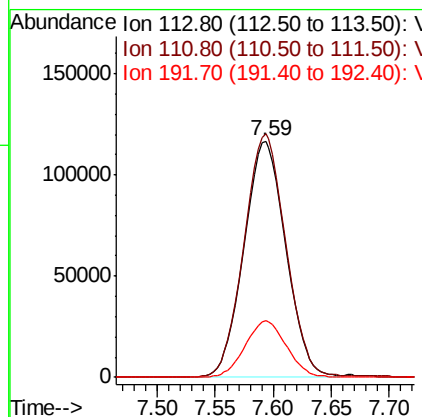
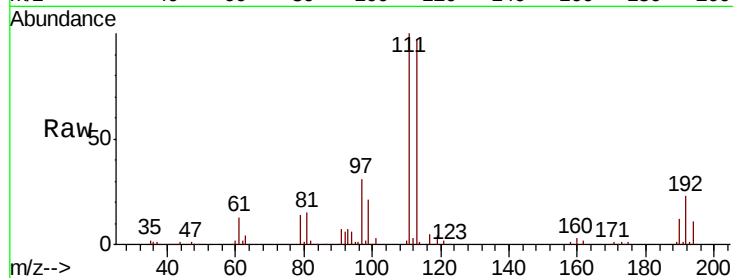
#35
 Dibromofluoromethane
 Concen: 45.20 ug/l
 RT: 7.59 min Scan# 1810
 Delta R.T. 0.00 min
 Lab File: VN051242.D
 Acq: 16 Sep 2018 00:06

Instrument :
 MSVOA_N
 ClientSampleId :
 VN0915WBSD02

Tot Ion	Ratio	Resp	Lower	Upper
113	100	294025		
111	102.6	83.0	124.6	
192	23.6	18.7	28.1	

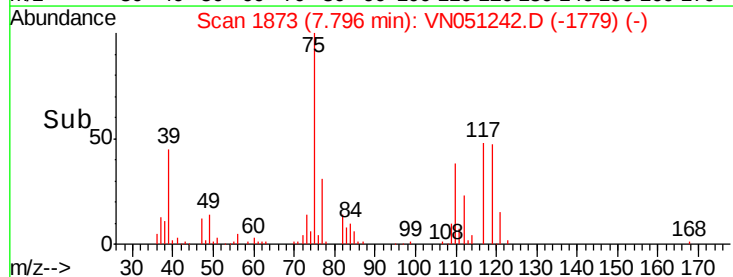
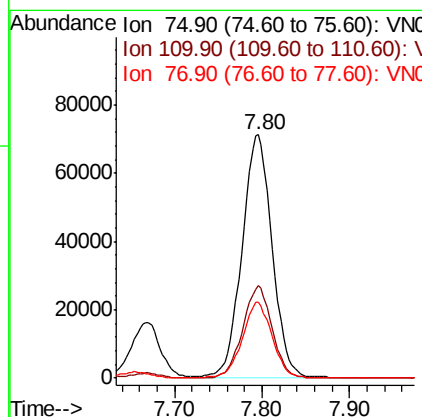
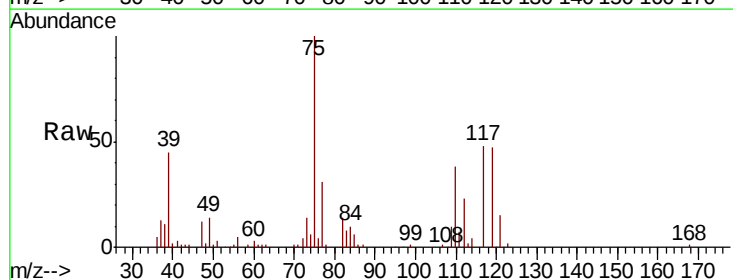
Manual Integrations
 APPROVED

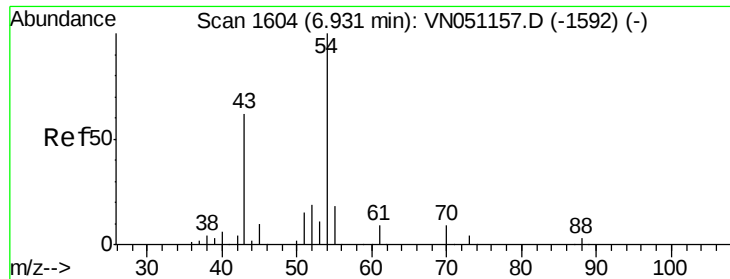
MMDadoda
 9/18/2018 4:32:04 PM



#36
 1,1-Dichloropropene
 Concen: 17.99 ug/l
 RT: 7.80 min Scan# 1873
 Delta R.T. 0.00 min
 Lab File: VN051242.D
 Acq: 16 Sep 2018 00:06

Tgt Ion	Ratio	Resp	Lower	Upper
75	100	170944		
110	36.7	18.6	55.8	
77	30.7	25.2	37.8	





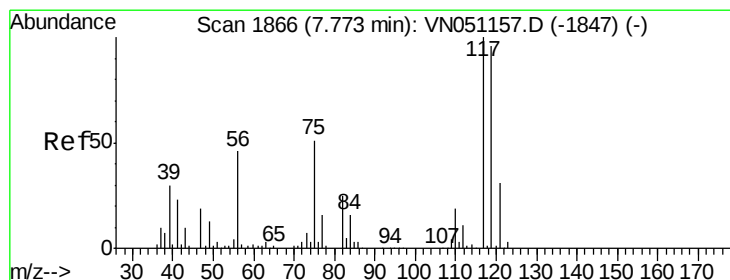
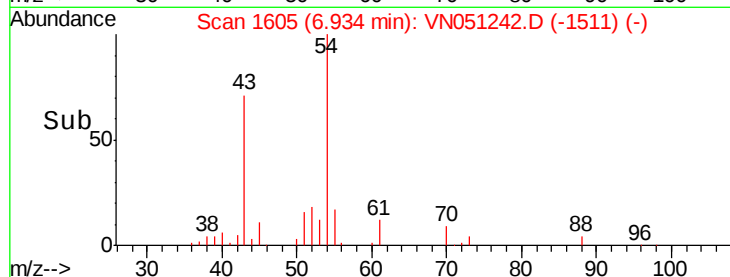
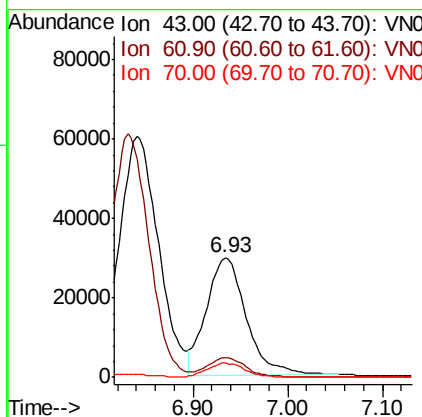
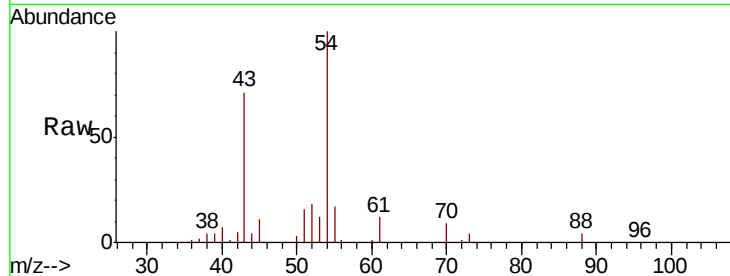
#37
Ethyl Acetate
Concen: 15.89 ug/l
RT: 6.93 min Scan# 1605
Delta R.T. 0.00 min
Lab File: VN051242.D
Acq: 16 Sep 2018 00:06

Instrument :
MSVOA_N
ClientSampleId :
VN0915WBSD02

Tot Ion	43	61	70
Resp	87441		
Ratio	100	16.1	11.5
Lower		12.4	9.3
Upper		18.6	13.9

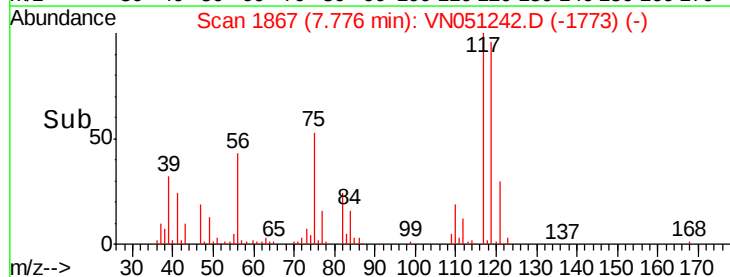
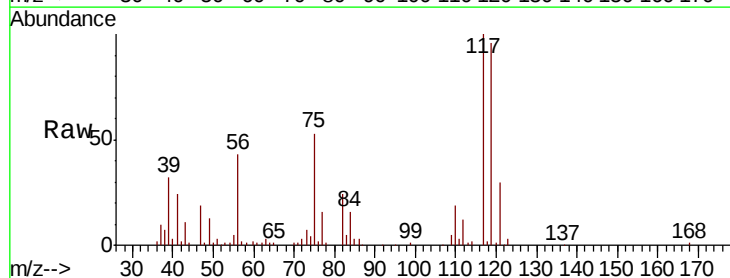
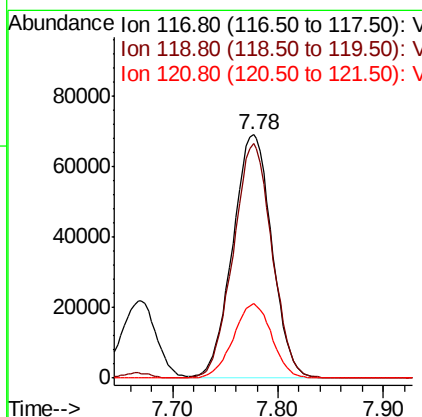
Manual Integrations
APPROVED

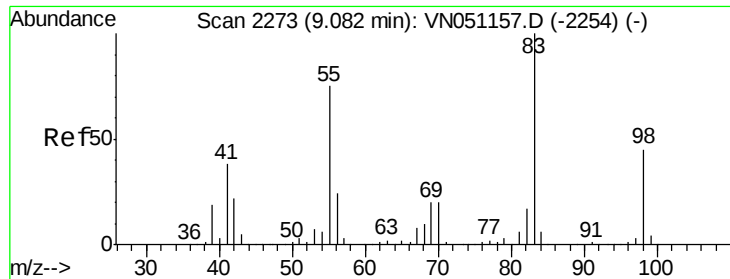
MMDadoda
9/18/2018 4:32:04 PM



#38
Carbon Tetrachloride
Concen: 19.08 ug/l
RT: 7.78 min Scan# 1867
Delta R.T. 0.00 min
Lab File: VN051242.D
Acq: 16 Sep 2018 00:06

Tgt Ion	117	119	121
Resp	178526		
Ratio	100	96.1	30.5
Lower		76.8	24.6
Upper		115.2	36.8





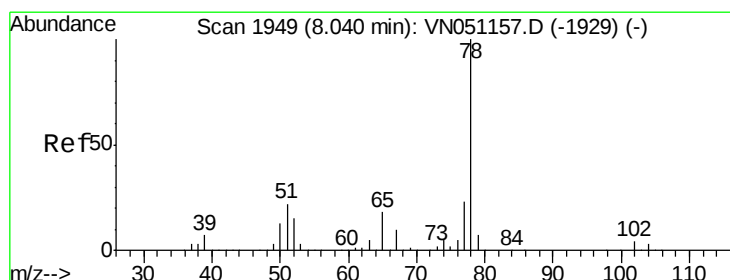
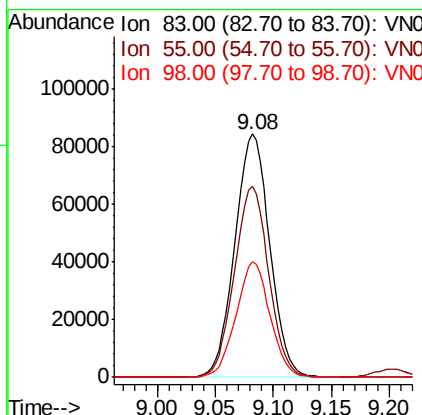
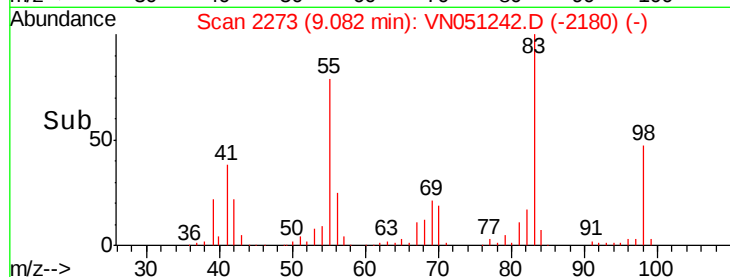
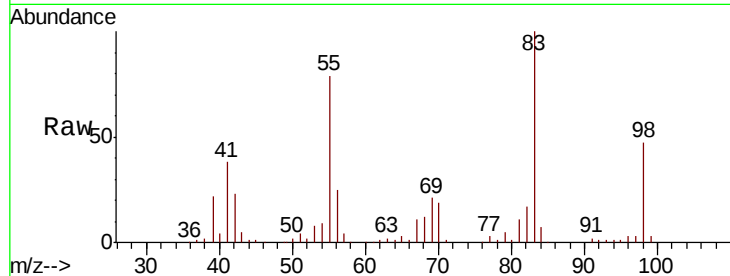
#39
Methvlcvclohexane
Concen: 16.80 ug/l
RT: 9.08 min Scan# 2273
Delta R.T. -0.00 min
Lab File: VN051242.D
Acq: 16 Sep 2018 00:06

Instrument :
MSVOA_N
ClientSampleId :
VN0915WBSD02

Tot Ion	83.00	Resp:	176140
Ion	Ratio	Lower	Upper
83	100		
55	78.6	58.4	87.6
98	47.5	37.3	55.9

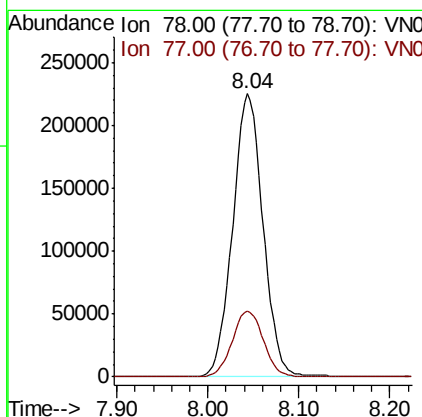
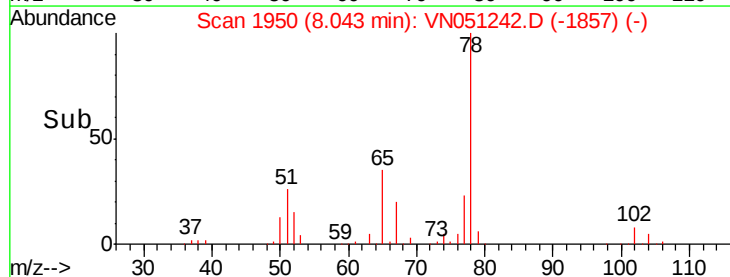
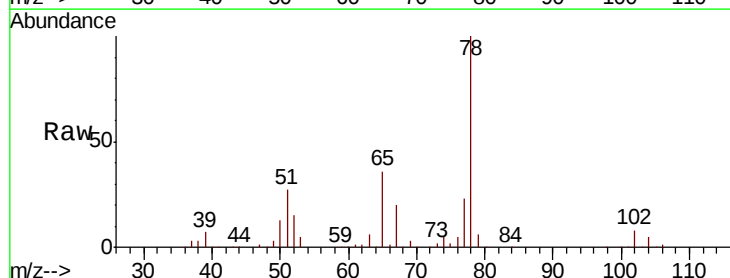
Manual Integrations
APPROVED

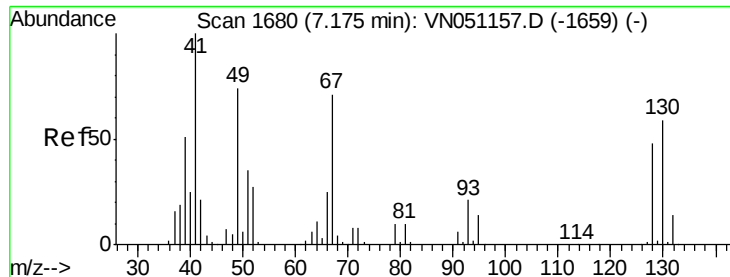
MMDadoda
9/18/2018 4:32:04 PM



#40
Benzene
Concen: 18.23 ug/l
RT: 8.04 min Scan# 1950
Delta R.T. -0.00 min
Lab File: VN051242.D
Acq: 16 Sep 2018 00:06

Tgt Ion	78	Resp:	521985
Ion	Ratio	Lower	Upper
78	100		
77	23.3	18.6	27.8





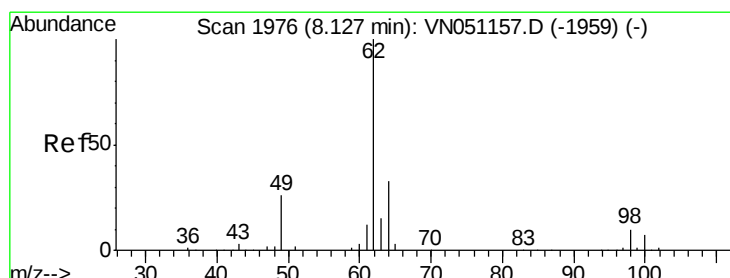
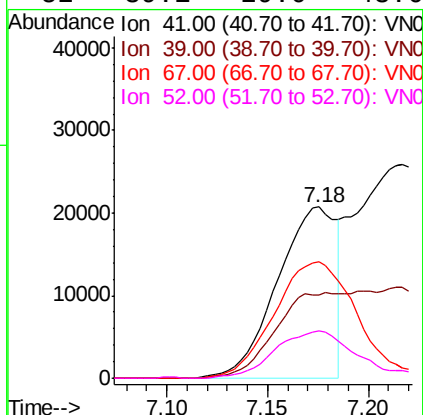
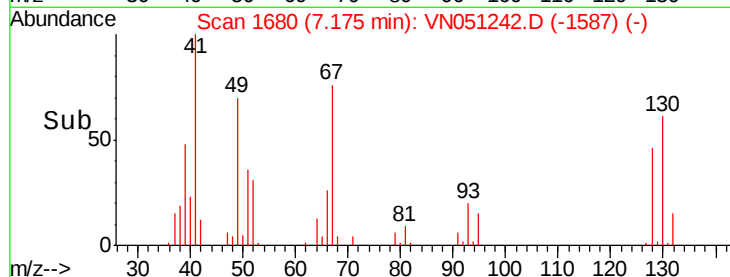
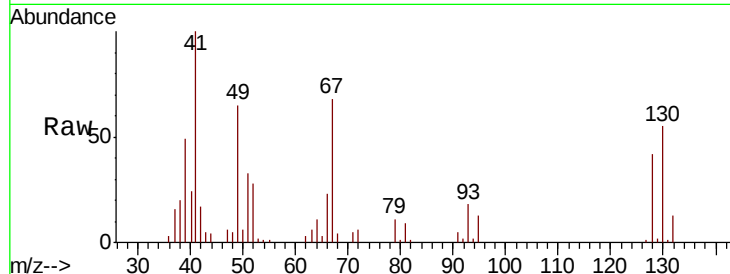
#41
Methacrylonitrile
Concen: 14.86 ug/l
RT: 7.18 min Scan# 1680
Delta R.T. -0.00 min
Lab File: VN051242.D
Acq: 16 Sep 2018 00:06

Instrument :
MSVOA_N
ClientSampleId :
VN0915WBSD02

Tot Ion:	41	Resp:	42206
Ion	Ratio	Lower	Upper
41	100		
39	52.3	51.3	76.9
67	96.2	78.5	117.7
52	39.1	29.0	43.6

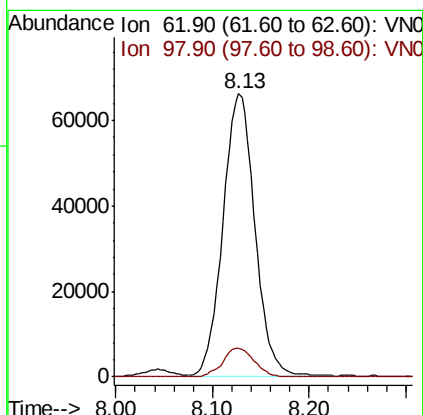
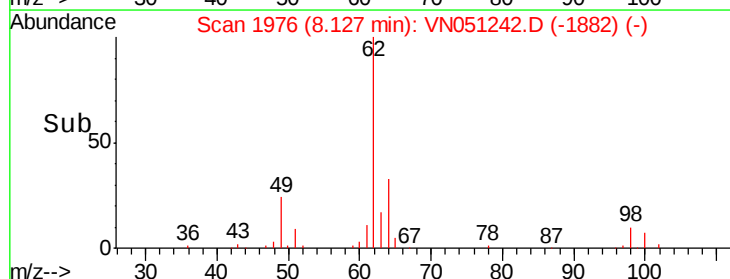
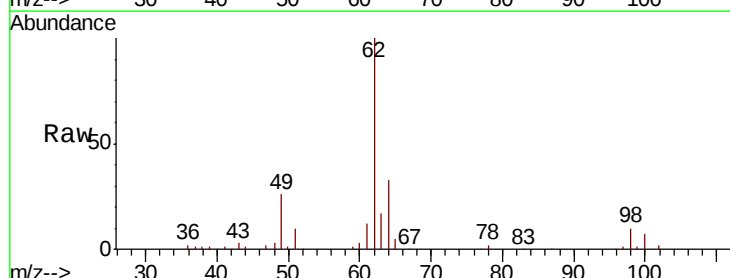
Manual Integrations
APPROVED

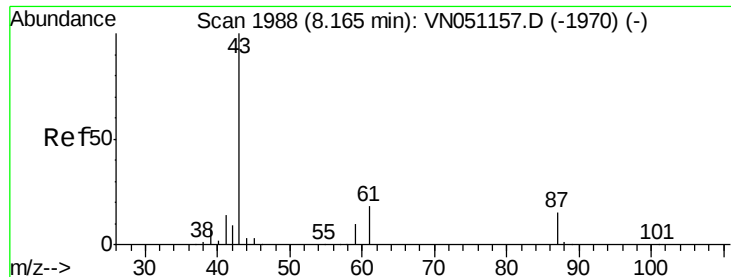
MMDadoda
9/18/2018 4:32:04 PM



#42
1,2-Dichloroethane
Concen: 18.14 ug/l
RT: 8.13 min Scan# 1976
Delta R.T. 0.00 min
Lab File: VN051242.D
Acq: 16 Sep 2018 00:06

Tgt Ion:	62	Resp:	151412
Ion	Ratio	Lower	Upper
62	100		
98	10.1	0.0	21.0





#43

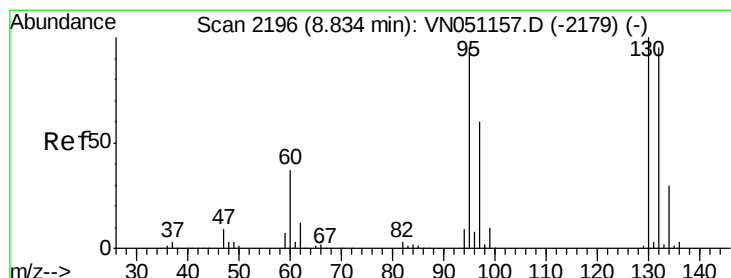
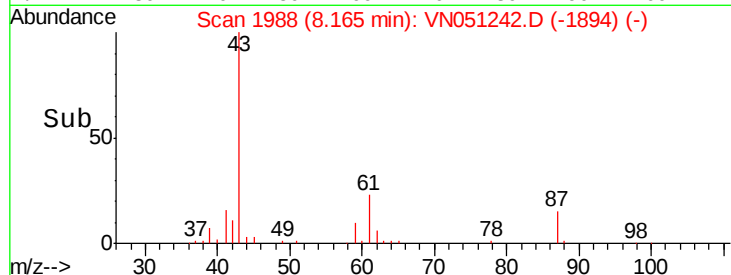
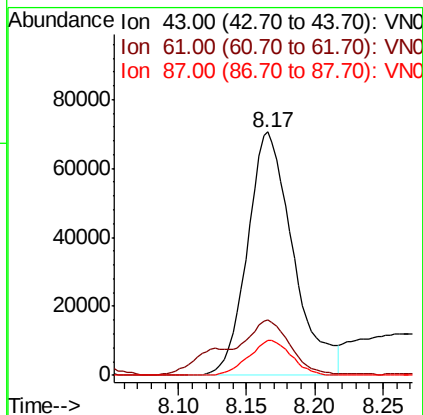
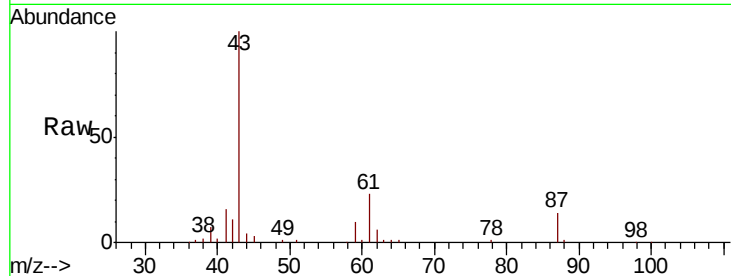
Isopropyl Acetate
 Concen: 16.83 ug/l
 RT: 8.17 min Scan# 1988
 Delta R.T. 0.00 min
 Lab File: VN051242.D
 Acq: 16 Sep 2018 00:06

Instrument :
 MSVOA_N
 ClientSampleId :
 VN0915WBSD02

Tot Ion	Ratio	Lower	Upper
43	100		
61	20.3	25.0	37.6#
87	13.5	11.8	17.8

Manual Integrations
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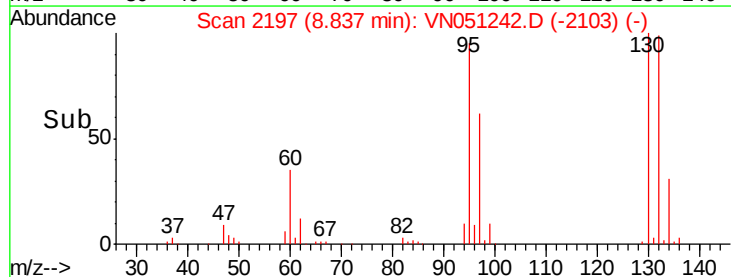
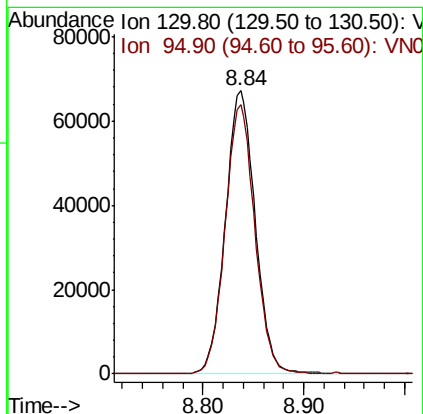
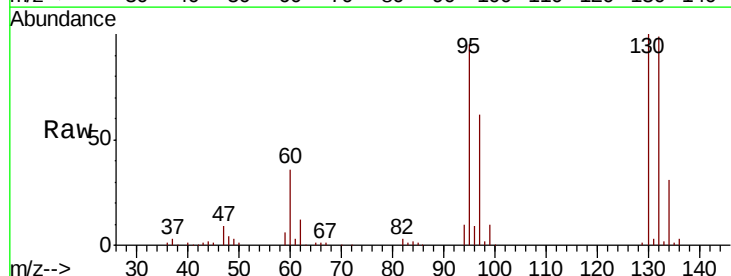
MMDadoda
 9/18/2018 4:32:04 PM

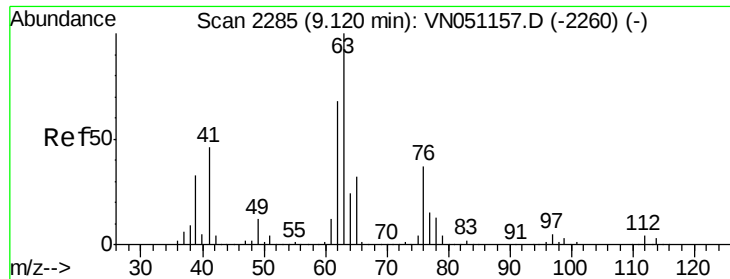


#44

Trichloroethene
 Concen: 17.71 ug/l
 RT: 8.84 min Scan# 2197
 Delta R.T. 0.00 min
 Lab File: VN051242.D
 Acq: 16 Sep 2018 00:06

Tgt Ion	Ratio	Lower	Upper
130	100		
95	95.1	0.0	186.2





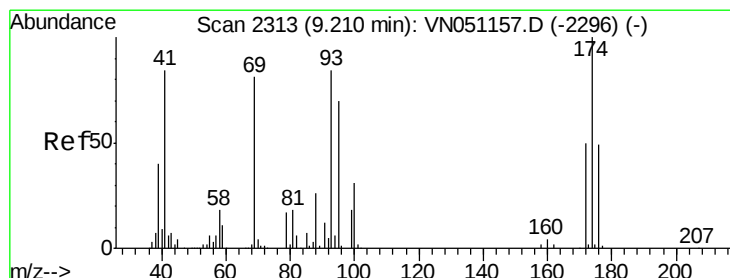
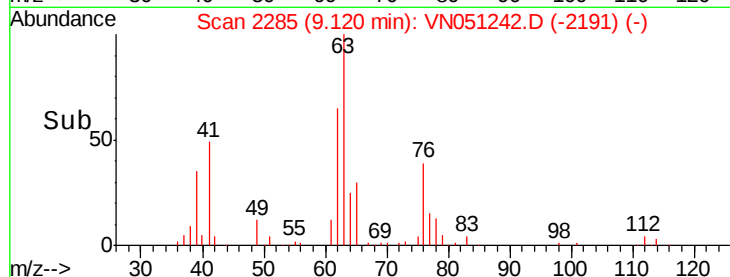
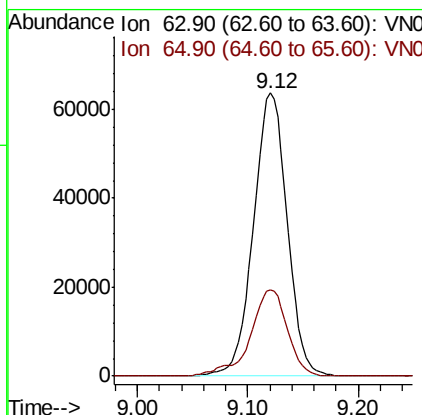
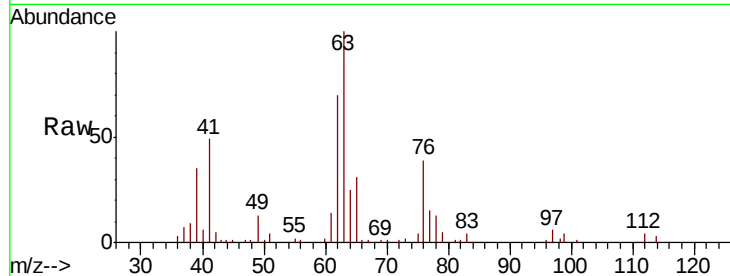
#45
 1,2-Dichloropropane
 Concen: 18.23 ug/l
 RT: 9.12 min Scan# 2285
 Delta R.T. 0.00 min
 Lab File: VN051242.D
 Acq: 16 Sep 2018 00:06

Instrument :
 MSVOA_N
 ClientSampleId :
 VN0915WBSD02

Tot Ion: 63 Resp: 134906
 Ion Ratio Lower Upper
 63 100
 65 30.5 24.7 37.1

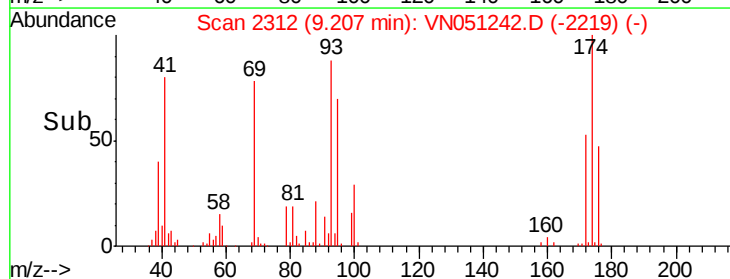
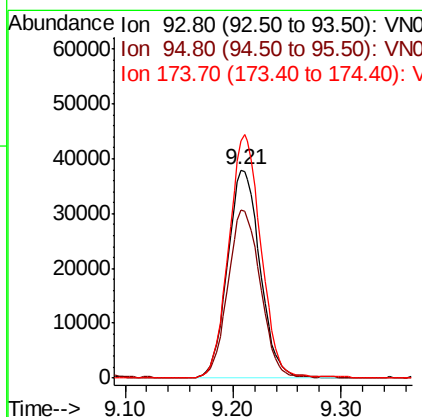
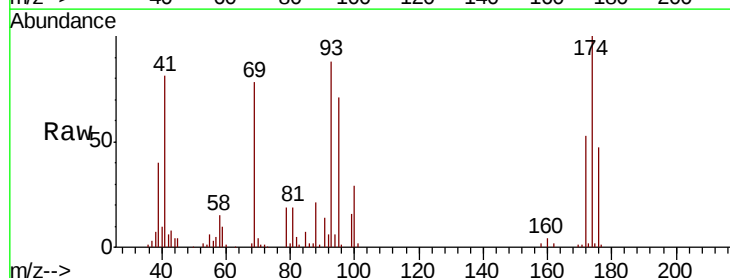
Manual Integrations
 APPROVED

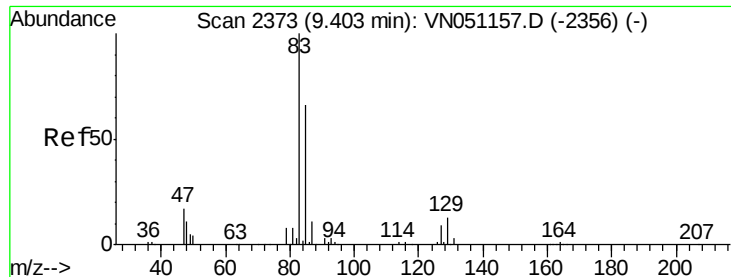
MMDadoda
 9/18/2018 4:32:04 PM



#46
 Dibromomethane
 Concen: 17.65 ug/l
 RT: 9.21 min Scan# 2312
 Delta R.T. -0.00 min
 Lab File: VN051242.D
 Acq: 16 Sep 2018 00:06

Tgt Ion: 93 Resp: 79718
 Ion Ratio Lower Upper
 93 100
 95 81.0 66.8 100.2
 174 115.6 93.3 139.9





#47

Bromodichloromethane

Concen: 18.28 ug/l

RT: 9.40 min Scan# 2373

Delta R.T. -0.00 min

Lab File: VN051242.D

Acq: 16 Sep 2018 00:06

Instrument :

MSVOA_N

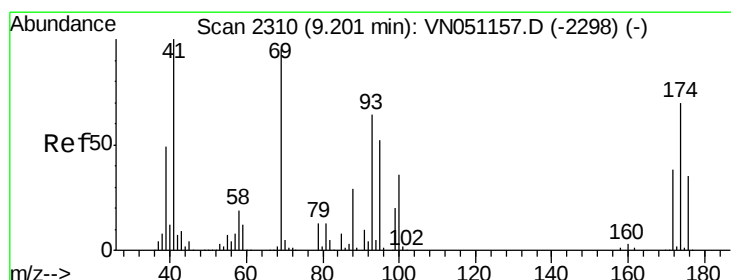
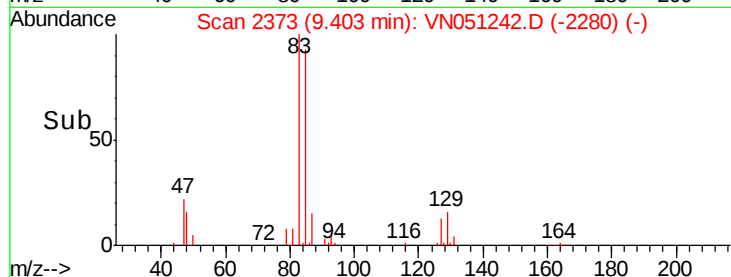
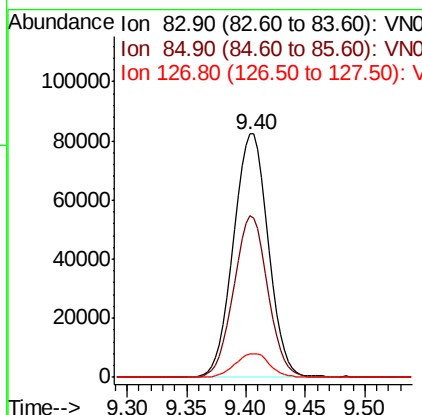
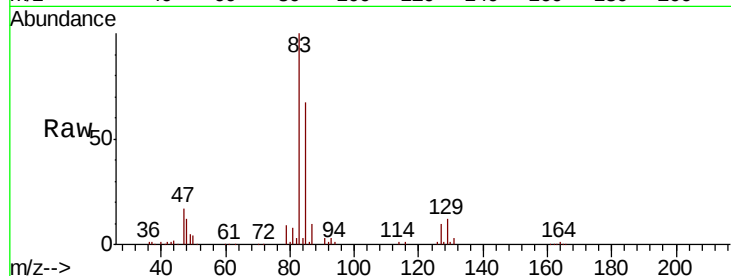
ClientSampleId :

VN0915WBSD02

Tot Ion:	83	Resp:	167793
Ion Ratio	Lower	Upper	
83	100		
85	66.5	52.3	78.5
127	9.5	7.5	11.3

Manual Integrations
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MMDadoda
9/18/2018 4:32:04 PM



#48

Methyl methacrylate

Concen: 16.01 ug/l

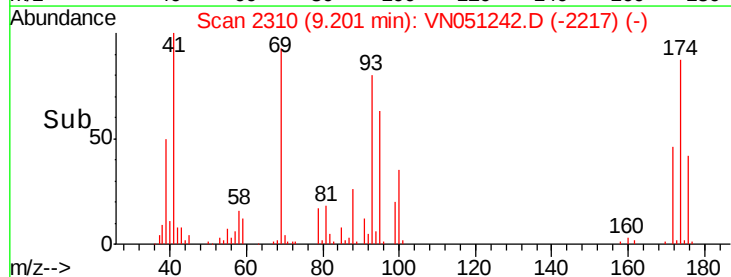
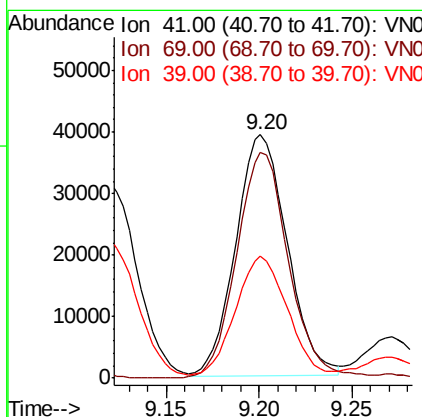
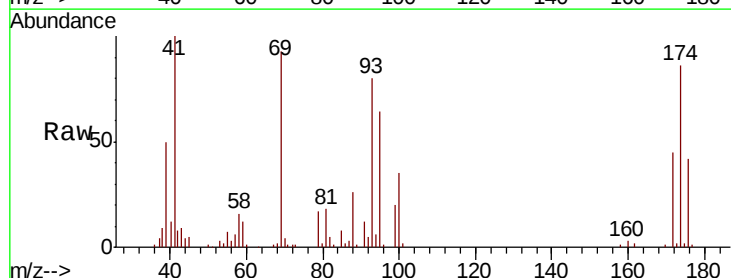
RT: 9.20 min Scan# 2310

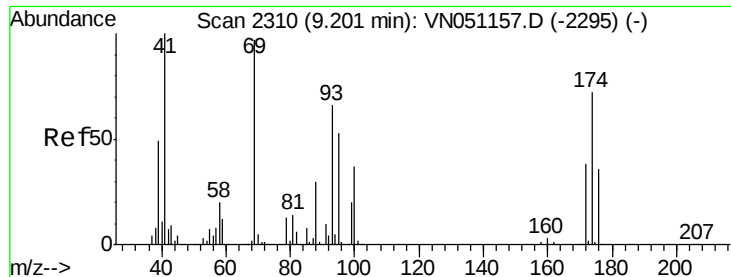
Delta R.T. -0.00 min

Lab File: VN051242.D

Acq: 16 Sep 2018 00:06

Tgt Ion:	41	Resp:	75776
Ion Ratio	Lower	Upper	
41	100		
69	94.2	77.7	116.5
39	51.0	41.6	62.4





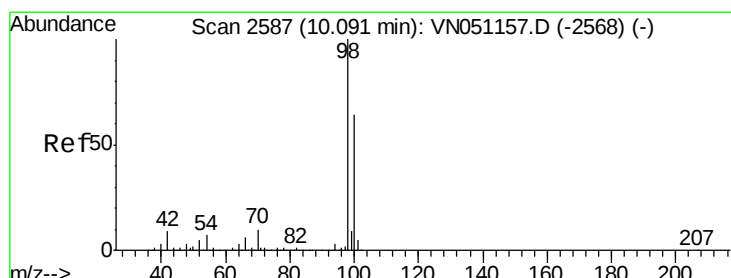
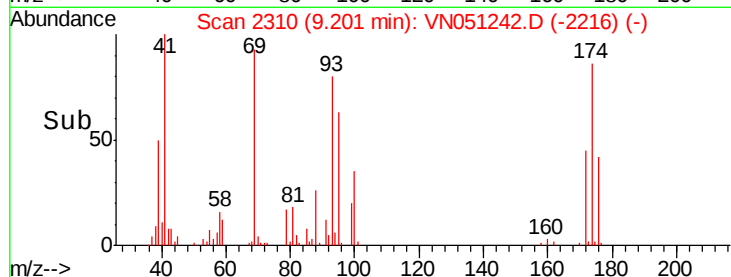
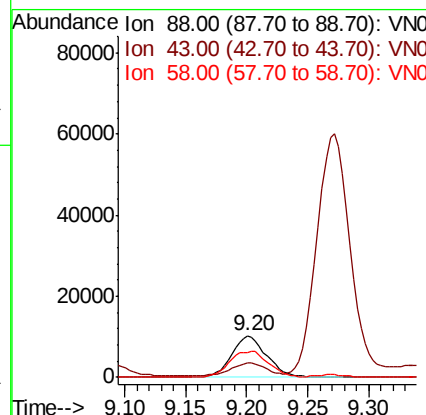
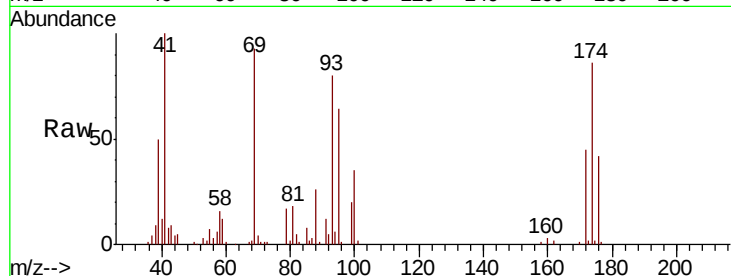
#49
1,4-Dioxane
Concen: 277.71 ug/l
RT: 9.20 min Scan# 2310
Delta R.T. 0.00 min
Lab File: VN051242.D
Acq: 16 Sep 2018 00:06

Instrument :
MSVOA_N
ClientSampleId :
VN0915WBSD02

Tot Ion	Ratio	Lower	Upper
88	100		
43	31.0	23.7	35.5
58	70.0	54.6	82.0

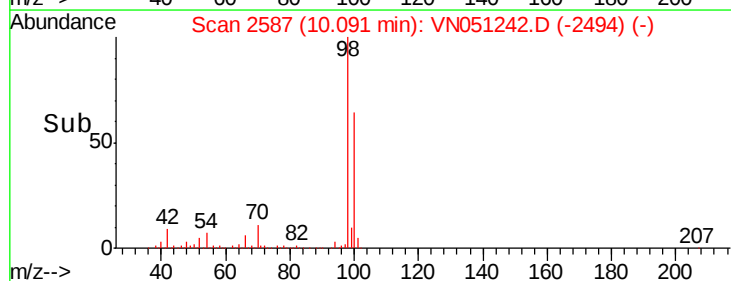
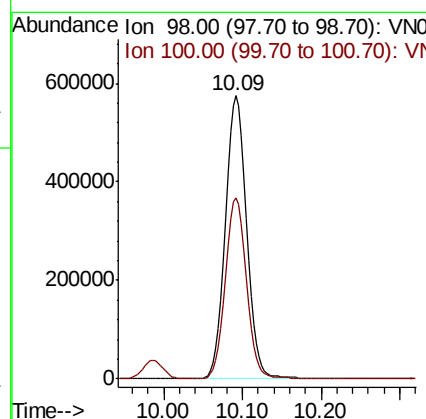
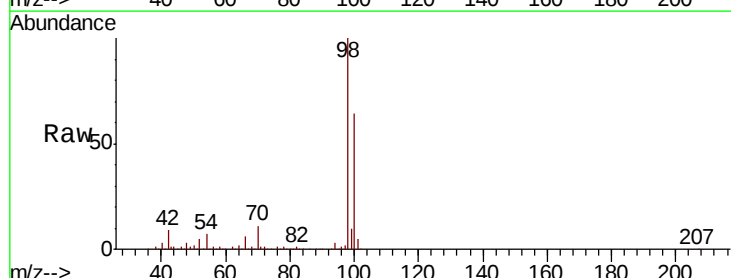
Manual Integrations
APPROVED

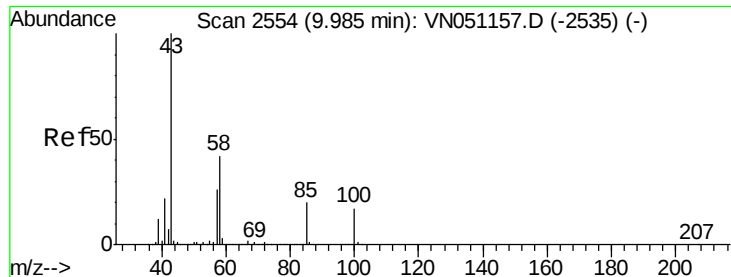
MMDadoda
9/18/2018 4:32:04 PM



#50
Toluene-d8
Concen: 43.46 ug/l
RT: 10.09 min Scan# 2587
Delta R.T. -0.00 min
Lab File: VN051242.D
Acq: 16 Sep 2018 00:06

Tgt Ion	Ratio	Lower	Upper
98	100		
100	63.7	52.0	78.0





#51

4-Methyl-2-Pentanone

Concen: 76.92 ug/l

RT: 9.99 min Scan# 2554

Delta R.T. -0.00 min

Lab File: VN051242.D

Acq: 16 Sep 2018 00:06

Instrument :

MSVOA_N

ClientSampled :

VN0915WBSD02

Tot Ion: 43 Resp: 413182

Ion Ratio Lower Upper

43 100

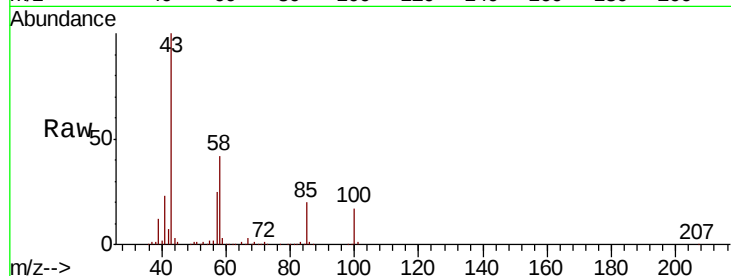
58 41.2 33.5 50.3

Manual Integrations

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MMDadoda

9/18/2018 4:32:04 PM



Abundance Ion 43.00 (42.70 to 43.70): VN051157.D (-2535) (-)

Ion 58.00 (57.70 to 58.70): VN051157.D (-2535) (-)

9.99

250000

200000

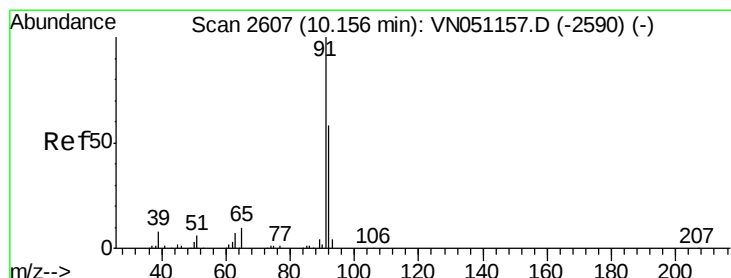
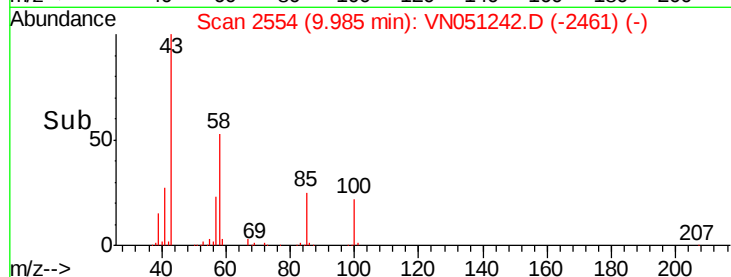
150000

100000

50000

0

Time-->



#52

Toluene

Concen: 18.28 ug/l

RT: 10.16 min Scan# 2607

Delta R.T. -0.00 min

Lab File: VN051242.D

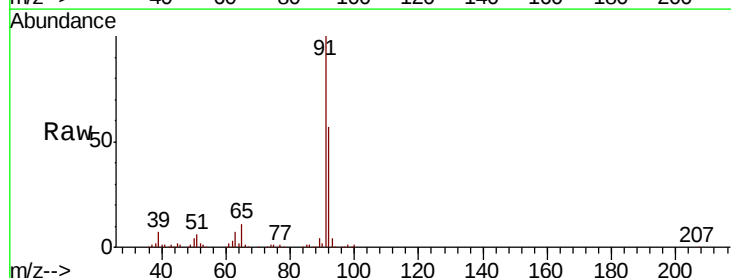
Acq: 16 Sep 2018 00:06

Tgt Ion: 92 Resp: 319195

Ion Ratio Lower Upper

92 100

91 173.6 139.5 209.3



Abundance Ion 92.00 (91.70 to 92.70): VN051157.D (-2590) (-)

Ion 91.00 (90.70 to 91.70): VN051157.D (-2590) (-)

10.16

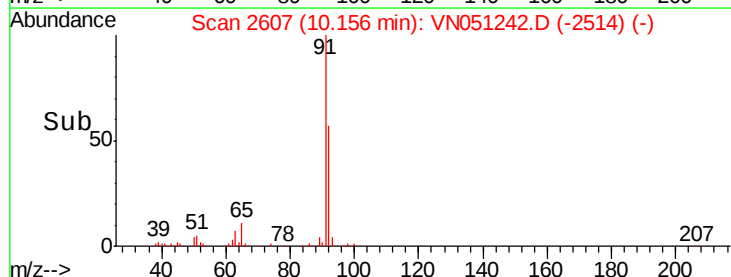
300000

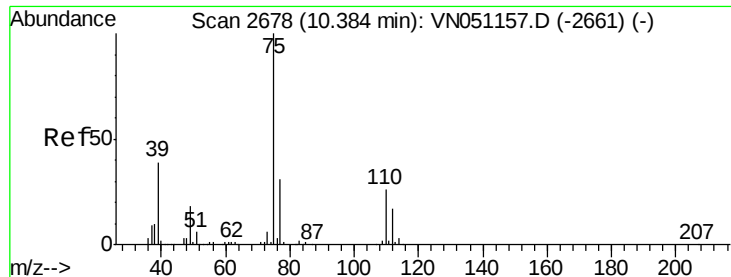
200000

100000

0

Time-->





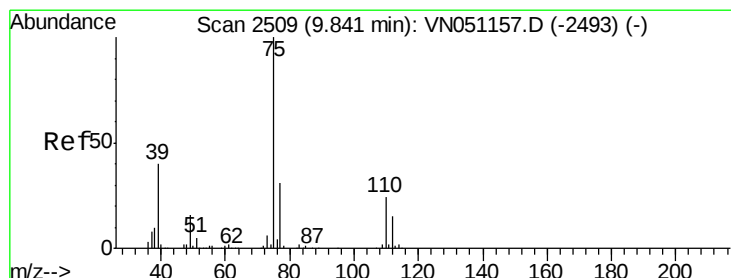
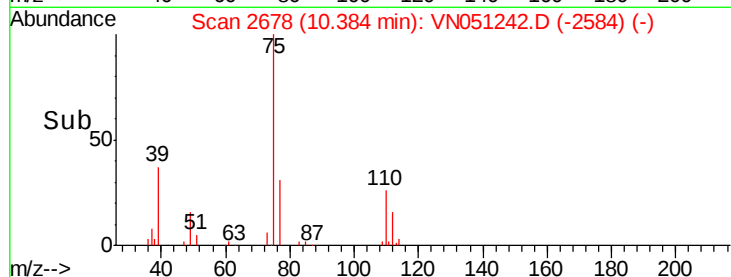
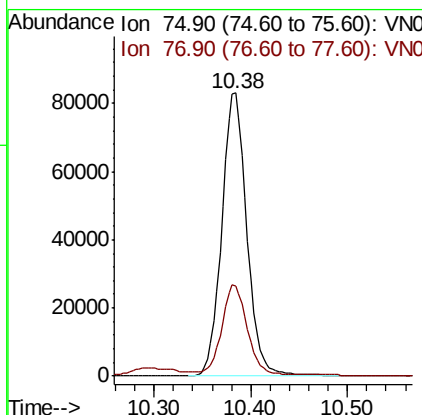
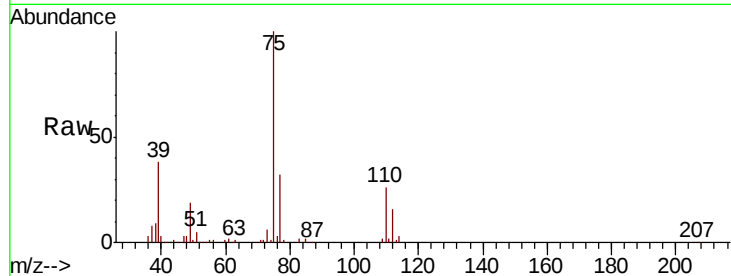
#53
t-1,3-Dichloropropene
Concen: 16.25 ug/l
RT: 10.38 min Scan# 2678
Delta R.T. 0.00 min
Lab File: VN051242.D
Acq: 16 Sep 2018 00:06

Instrument :
MSVOA_N
ClientSampleId :
VN0915WBSD02

Tot Ion	Ratio	Lower	Upper
75	100		
77	31.3	25.3	37.9

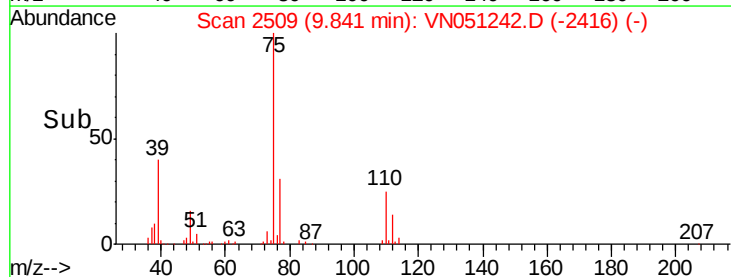
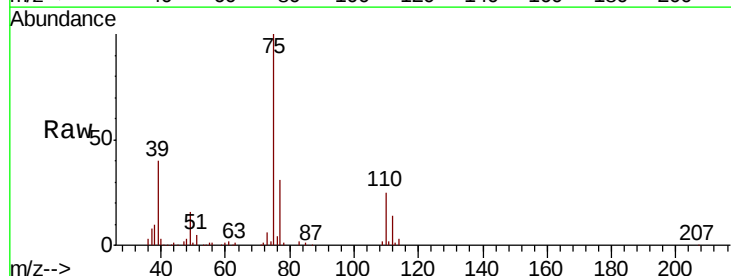
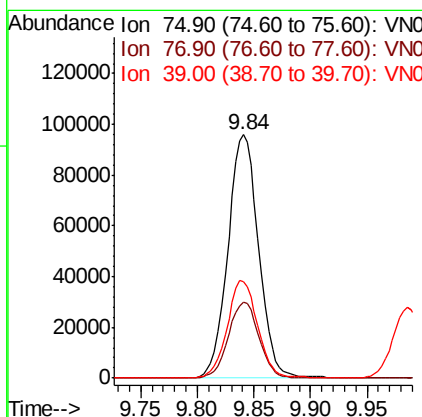
Manual Integrations
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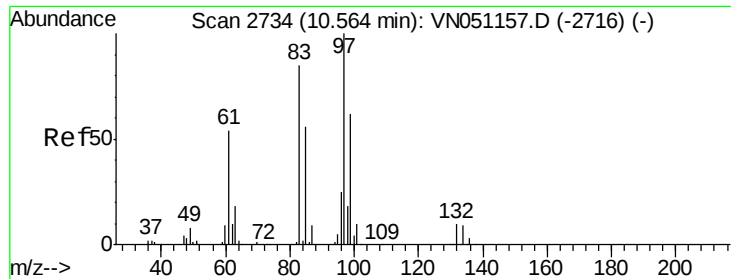
MMDadoda
9/18/2018 4:32:04 PM



#54
cis-1,3-Dichloropropene
Concen: 16.79 ug/l
RT: 9.84 min Scan# 2509
Delta R.T. -0.00 min
Lab File: VN051242.D
Acq: 16 Sep 2018 00:06

Tgt Ion	Ratio	Lower	Upper
75	100		
77	31.3	25.7	38.5
39	39.8	31.9	47.9





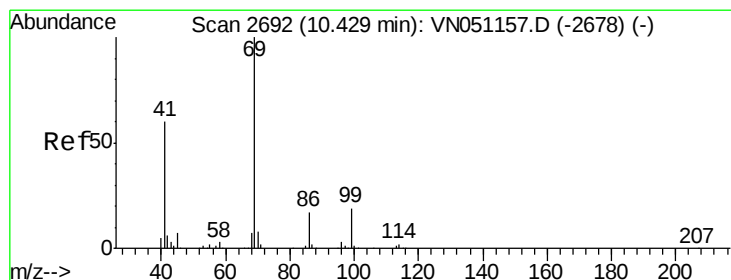
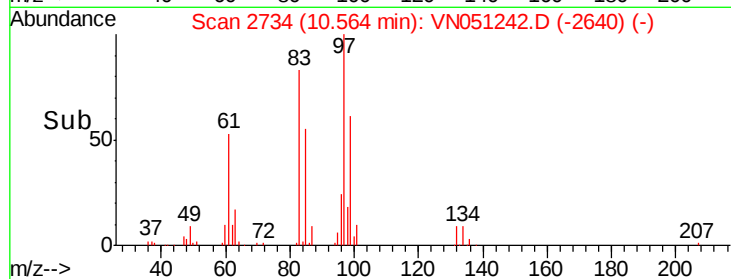
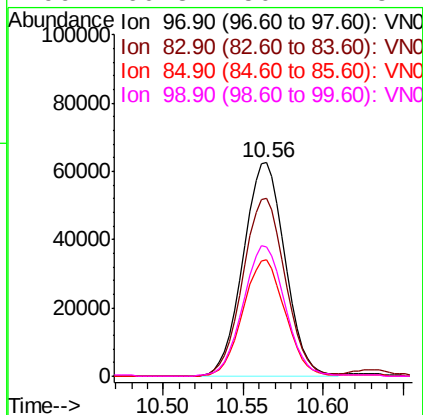
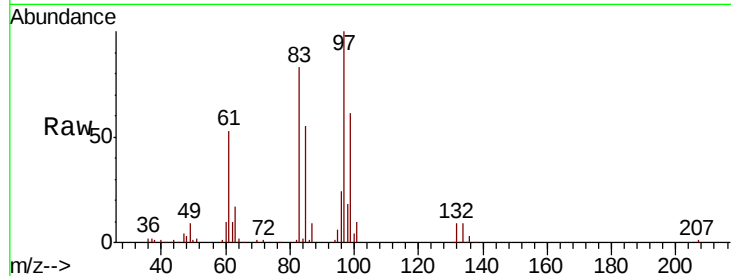
#55
 1,1,2-Trichloroethane
 Concen: 17.65 ug/l
 RT: 10.56 min Scan# 2734
 Delta R.T. 0.00 min
 Lab File: VN051242.D
 Acq: 16 Sep 2018 00:06

Instrument :
 MSVOA_N
 ClientSampleId :
 VN0915WBSD02

Tot Ion:	97	Resp:	111984
Ion	Ratio	Lower	Upper
97	100		
83	83.1	68.2	102.2
85	54.5	44.8	67.2
99	60.8	50.2	75.4

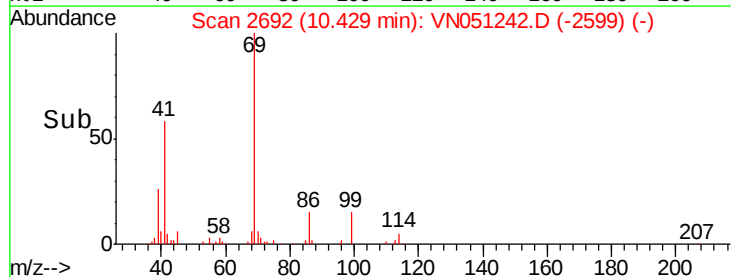
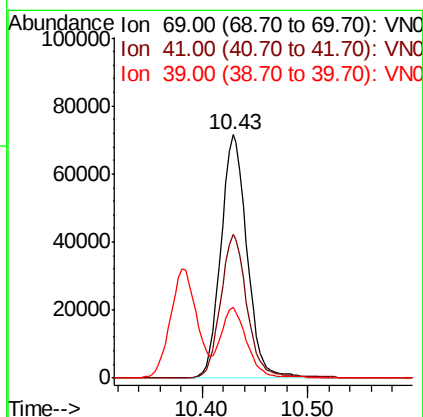
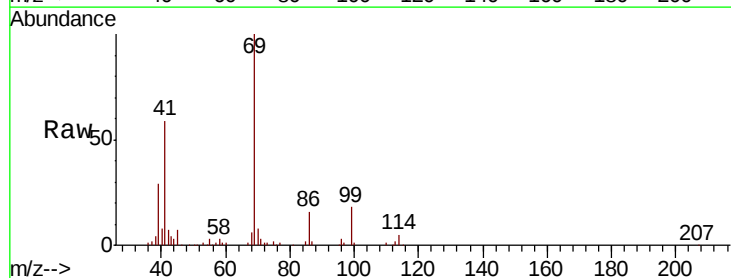
Manual Integrations
 APPROVED

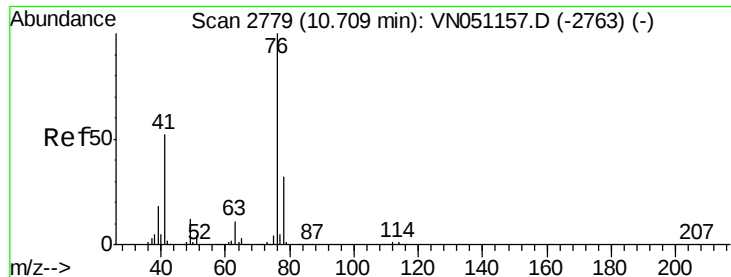
MMDadoda
 9/18/2018 4:32:04 PM



#56
 Ethyl methacrylate
 Concen: 16.18 ug/l
 RT: 10.43 min Scan# 2692
 Delta R.T. 0.00 min
 Lab File: VN051242.D
 Acq: 16 Sep 2018 00:06

Tgt Ion:	69	Resp:	122911
Ion	Ratio	Lower	Upper
69	100		
41	58.3	47.8	71.8
39	28.3	23.0	34.4





#57

1,3-Dichloropropane

Concen: 17.50 ug/l

RT: 10.71 min Scan# 2779

Delta R.T. 0.00 min

Lab File: VN051242.D

Acq: 16 Sep 2018 00:06

Instrument :

MSVOA_N

ClientSampleId :

VN0915WBSD02

Tot Ion: 76 Resp: 184008

Ion Ratio Lower Upper

76 100

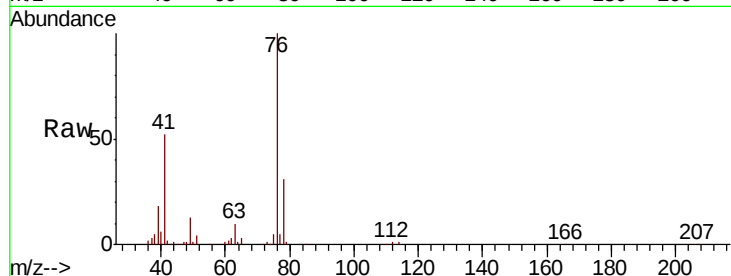
78 32.1 26.1 39.1

Manual Integrations

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MMDadoda

9/18/2018 4:32:04 PM



Abundance Ion 75.90 (75.60 to 76.60): VN051157.D (-2763) (-)

Ion 77.90 (77.60 to 78.60): VN051157.D (-2763) (-)

120000

100000

80000

60000

40000

20000

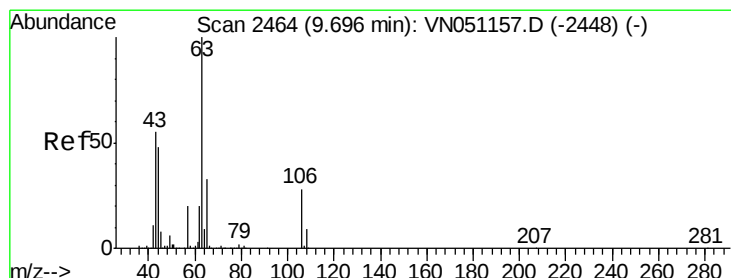
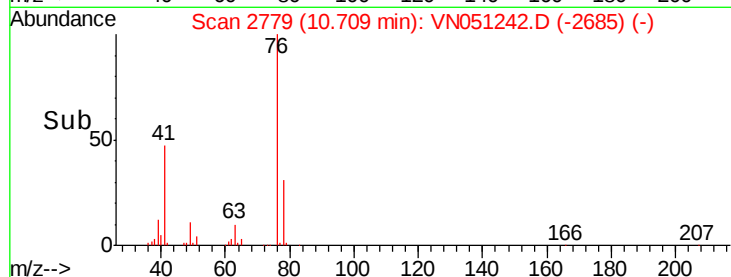
0

10.60

10.70

10.80

Time-->



#58

2-Chloroethyl Vinyl ether

Concen: 74.61 ug/l

RT: 9.70 min Scan# 2464

Delta R.T. 0.00 min

Lab File: VN051242.D

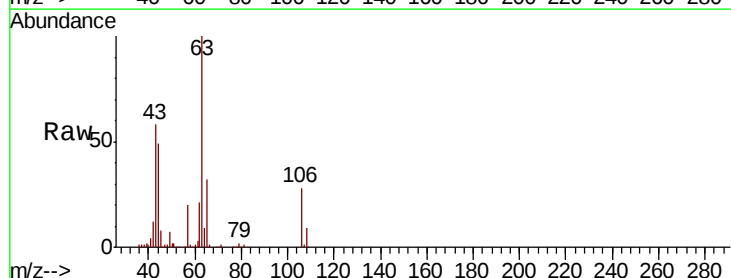
Acq: 16 Sep 2018 00:06

Tgt Ion: 63 Resp: 226295

Ion Ratio Lower Upper

63 100

106 28.1 22.5 33.7



Abundance Ion 62.90 (62.60 to 63.60): VN051157.D (-2448) (-)

Ion 105.90 (105.60 to 106.60): VN051157.D (-2448) (-)

150000

100000

50000

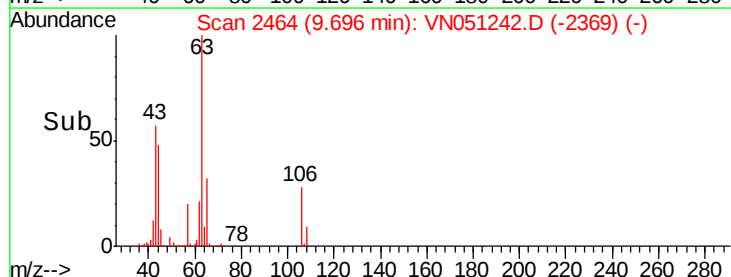
0

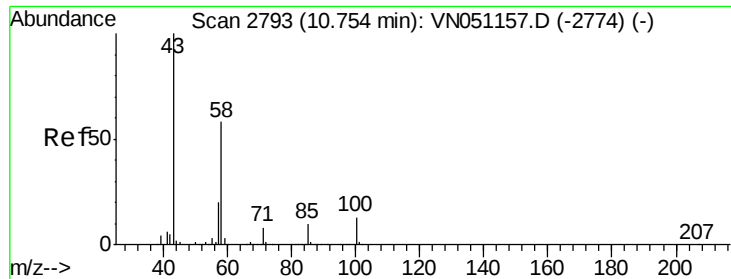
9.60

9.70

9.80

Time-->





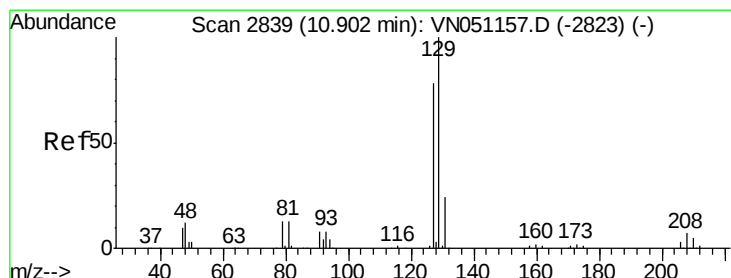
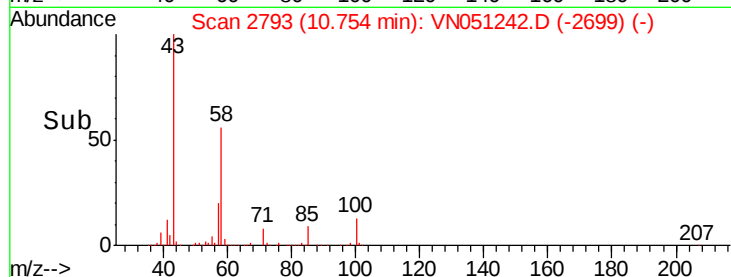
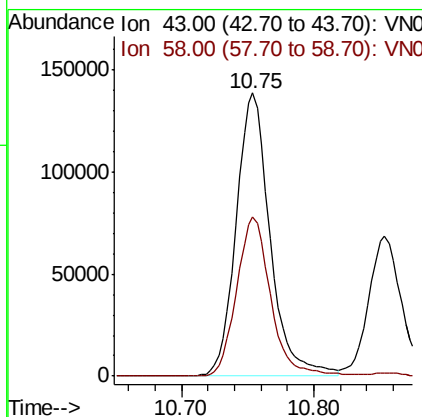
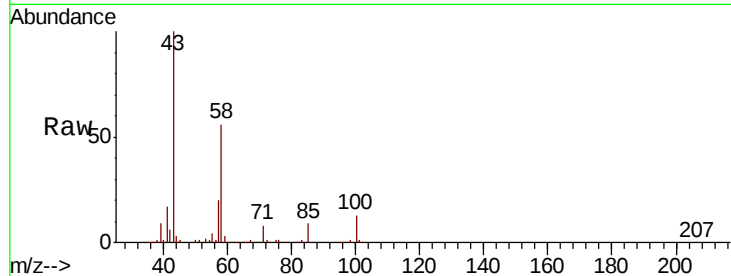
#59
2-Hexanone
Concen: 67.38 ug/l
RT: 10.75 min Scan# 2793
Delta R.T. 0.00 min
Lab File: VN051242.D
Acq: 16 Sep 2018 00:06

Instrument :
MSVOA_N
ClientSampleId :
VN0915WBSD02

Tot Ion	Ratio	Lower	Upper
43	100		
58	56.9	29.3	88.0

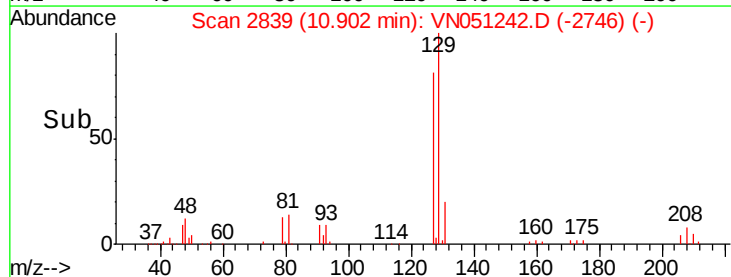
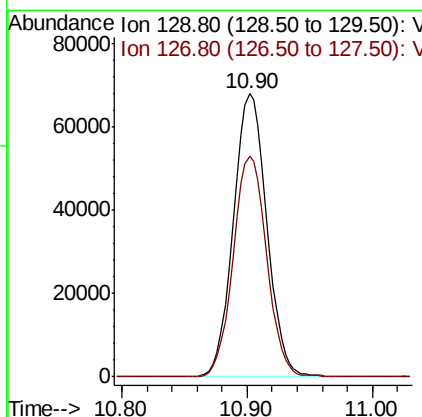
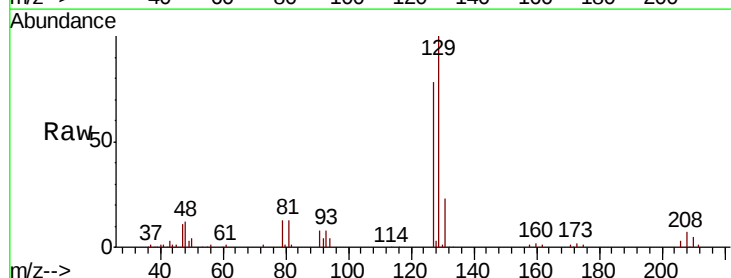
Manual Integrations
APPROVED

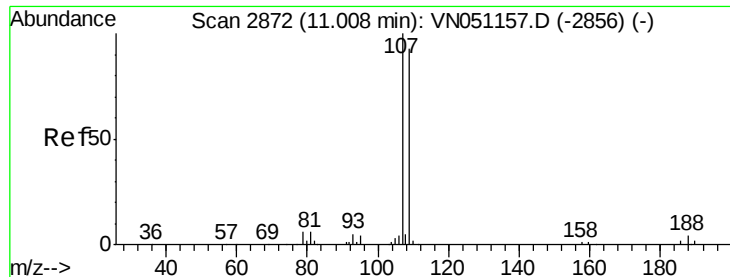
MMDadoda
9/18/2018 4:32:04 PM



#60
Dibromochloromethane
Concen: 17.60 ug/l
RT: 10.90 min Scan# 2839
Delta R.T. -0.00 min
Lab File: VN051242.D
Acq: 16 Sep 2018 00:06

Tgt Ion	Ratio	Lower	Upper
129	100		
127	78.2	38.5	115.5





#61

1,2-Dibromoethane

Concen: 17.30 ug/l

RT: 11.01 min Scan# 2872

Delta R.T. -0.00 min

Lab File: VN051242.D

Acq: 16 Sep 2018 00:06

Instrument :

MSVOA_N

ClientSampleId :

VN0915WBSD02

Tot Ion: 107 Resp: 107295

Ion Ratio Lower Upper

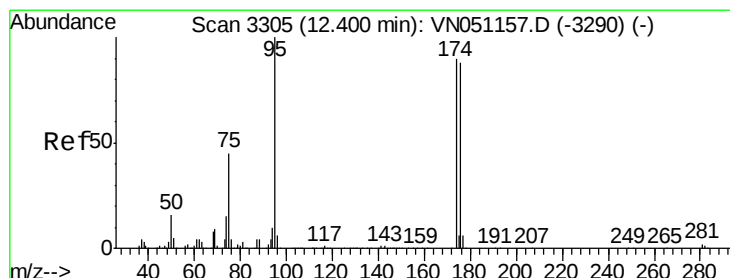
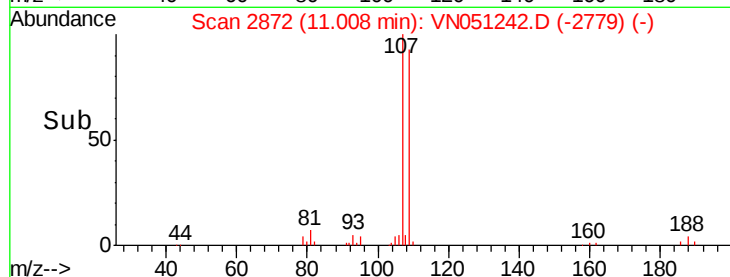
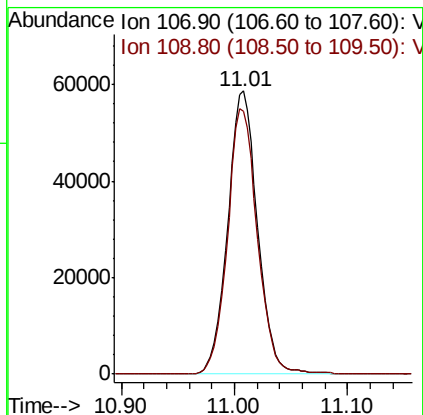
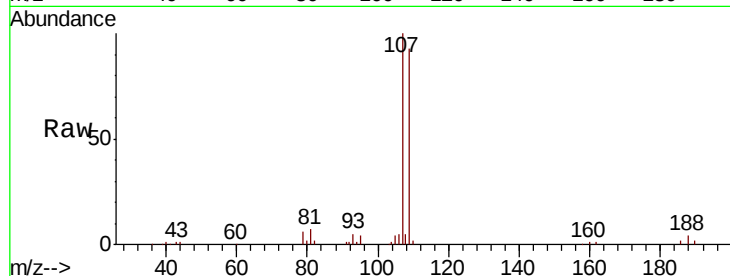
107 100

109 94.1 76.0 114.0

Manual Integrations
APPROVED

MMDadoda

9/18/2018 4:32:04 PM



#62

4-Bromofluorobenzene

Concen: 39.51 ug/l

RT: 12.40 min Scan# 3305

Delta R.T. -0.00 min

Lab File: VN051242.D

Acq: 16 Sep 2018 00:06

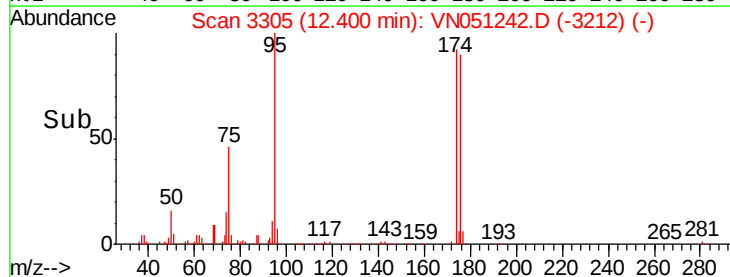
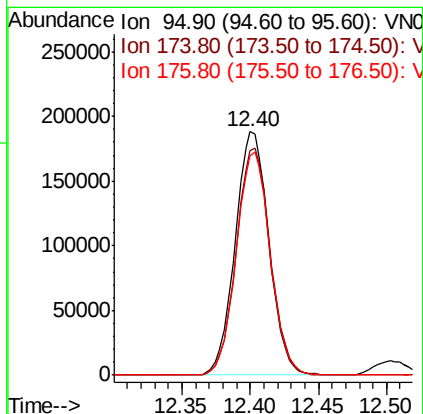
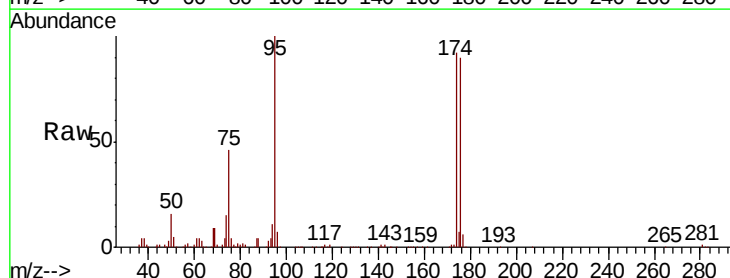
Tgt Ion: 95 Resp: 322579

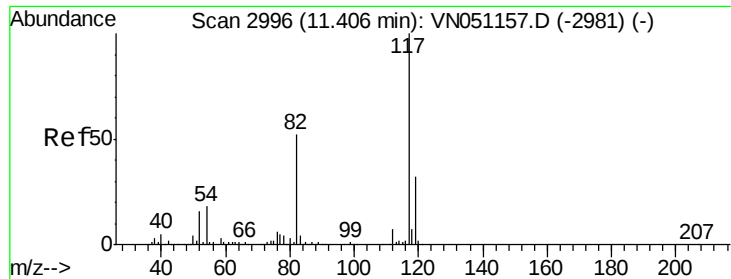
Ion Ratio Lower Upper

95 100

174 94.1 0.0 184.8

176 91.7 0.0 178.6





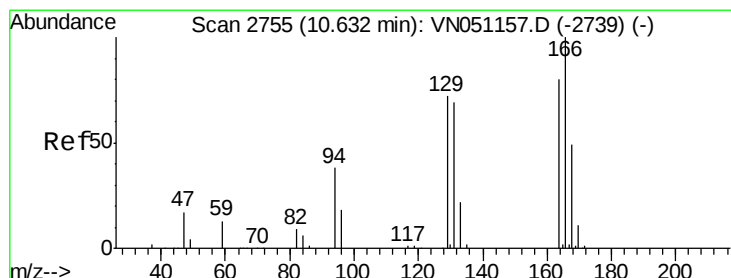
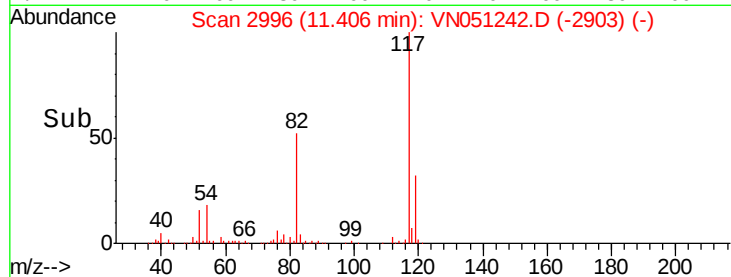
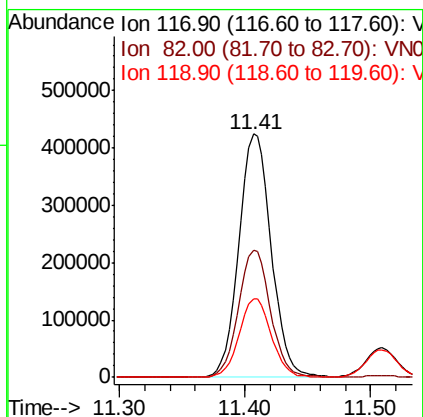
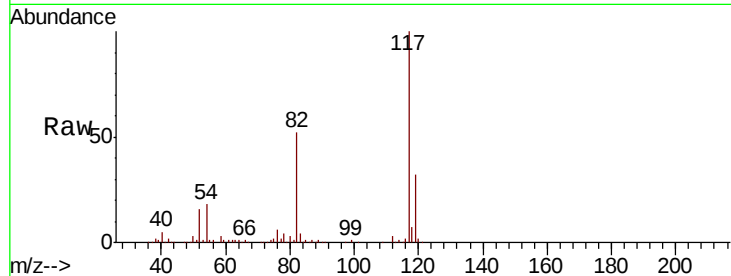
#63
Chlorobenzene-d5
Concen: 50.00 ug/l
RT: 11.41 min Scan# 2996
Delta R.T. -0.00 min
Lab File: VN051242.D
Acq: 16 Sep 2018 00:06

Instrument :
MSVOA_N
ClientSampleId :
VN0915WBSD02

Tot Ion	Ratio	Lower	Upper
117	100		
82	52.2	41.8	62.6
119	32.1	26.2	39.2

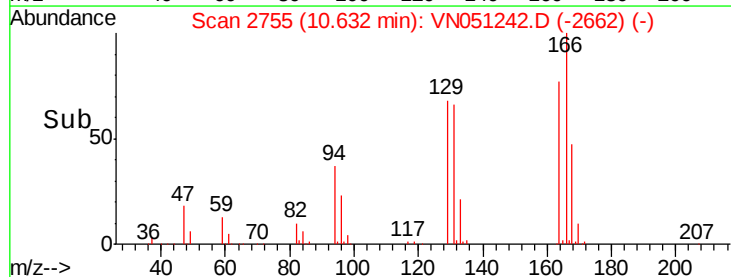
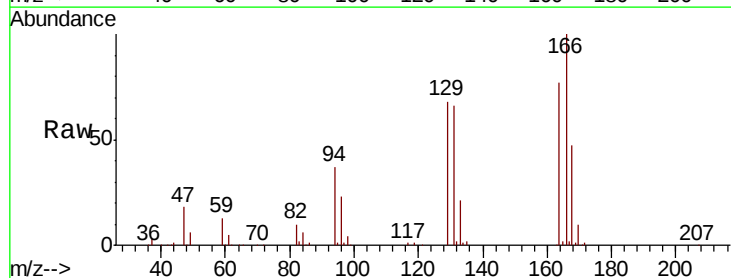
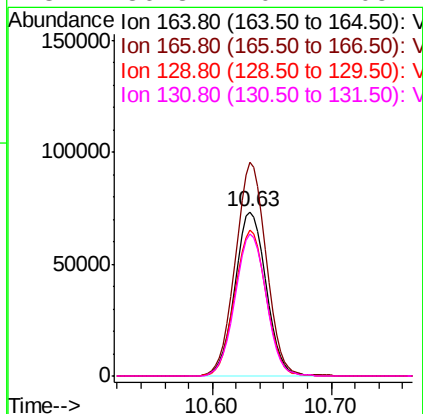
Manual Integrations
APPROVED

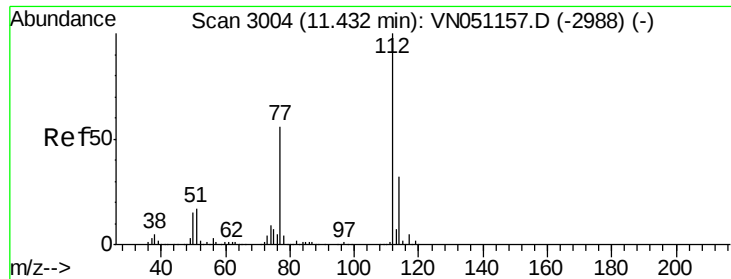
MMDadoda
9/18/2018 4:32:04 PM



#64
Tetrachloroethene
Concen: 19.20 ug/l
RT: 10.63 min Scan# 2755
Delta R.T. -0.00 min
Lab File: VN051242.D
Acq: 16 Sep 2018 00:06

Tgt Ion	Ratio	Lower	Upper
164	100		
166	130.0	101.3	151.9
129	88.7	72.2	108.2
131	86.3	70.2	105.2





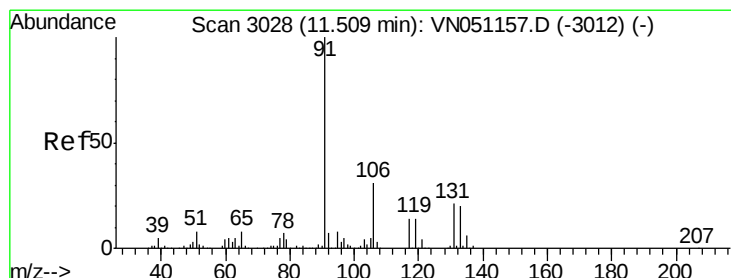
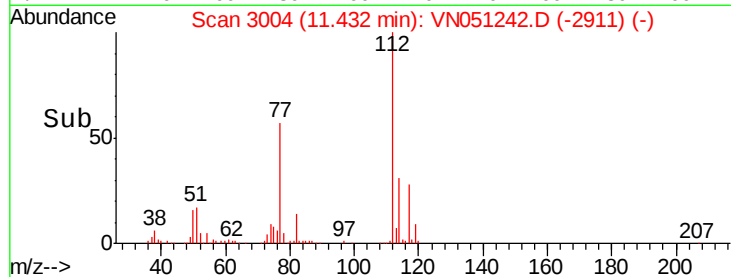
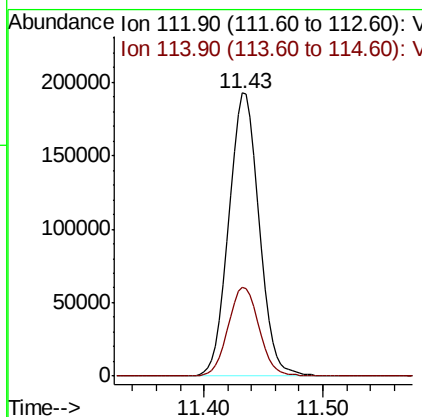
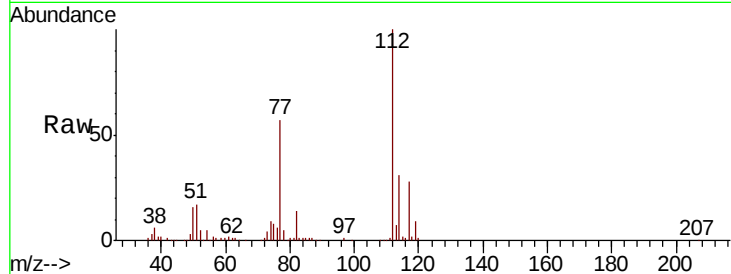
#65
Chlorobenzene
Concen: 17.80 ug/l
RT: 11.43 min Scan# 3004
Delta R.T. -0.00 min
Lab File: VN051242.D
Acq: 16 Sep 2018 00:06

Instrument :
MSVOA_N
ClientSampleId :
VN0915WBSD02

Tot Ion	Ratio	Lower	Upper
112	100		
114	31.5	25.8	38.6

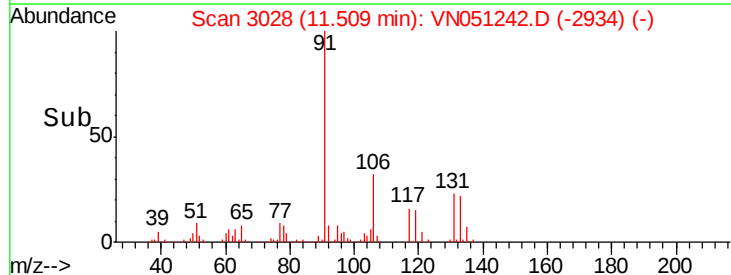
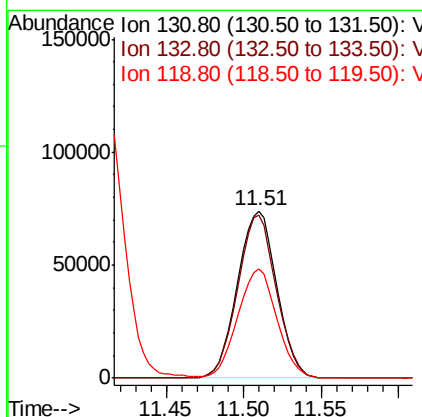
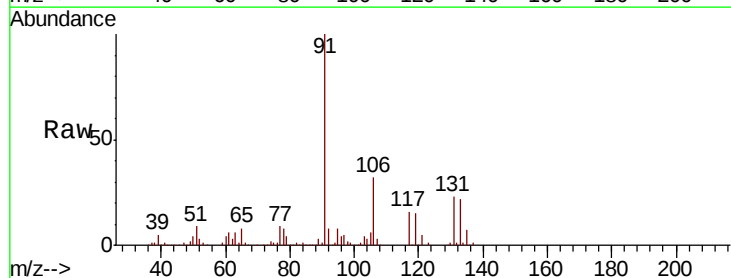
Manual Integrations
APPROVED

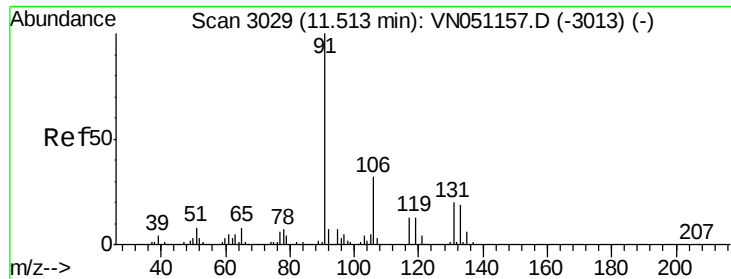
MMDadoda
9/18/2018 4:32:04 PM



#66
1,1,1,2-Tetrachloroethane
Concen: 18.89 ug/l
RT: 11.51 min Scan# 3028
Delta R.T. 0.00 min
Lab File: VN051242.D
Acq: 16 Sep 2018 00:06

Tgt Ion	Ratio	Lower	Upper
131	100		
133	96.2	47.5	142.6
119	65.2	33.2	99.6





#67

Ethyl Benzene

Concen: 17.90 ug/l

RT: 11.51 min Scan# 3029

Delta R.T. 0.00 min

Lab File: VN051242.D

Acq: 16 Sep 2018 00:06

Instrument :

MSVOA_N

ClientSampleId :

VN0915WBSD02

Tot Ion: 91 Resp: 55526

Ion Ratio Lower Upper

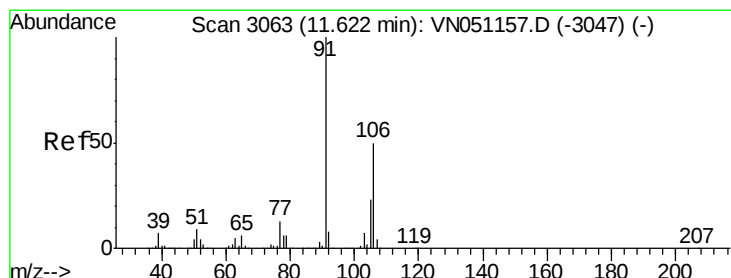
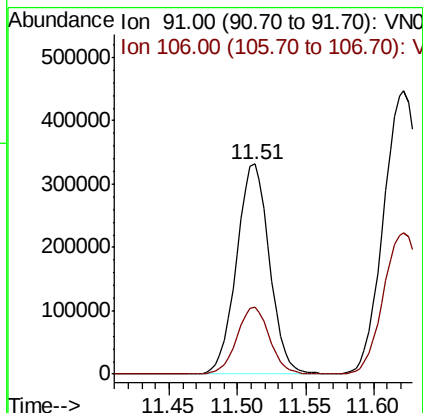
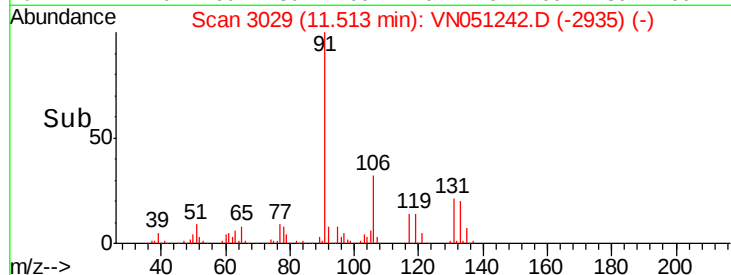
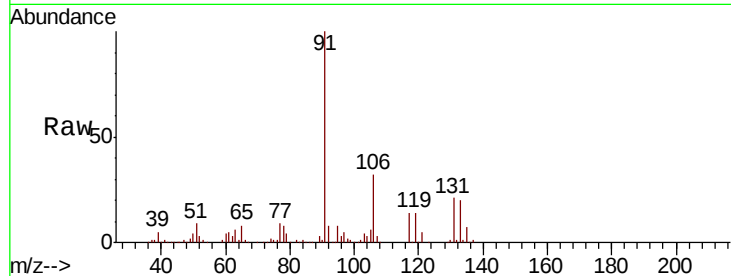
91 100

106 32.0 25.4 38.2

Manual Integrations
APPROVED

MMDadoda

9/18/2018 4:32:04 PM



#68

m/p-Xylenes

Concen: 36.81 ug/l

RT: 11.62 min Scan# 3063

Delta R.T. -0.00 min

Lab File: VN051242.D

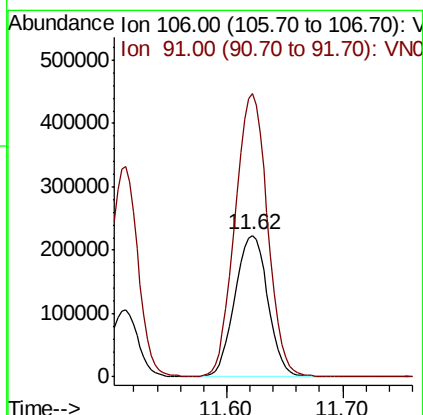
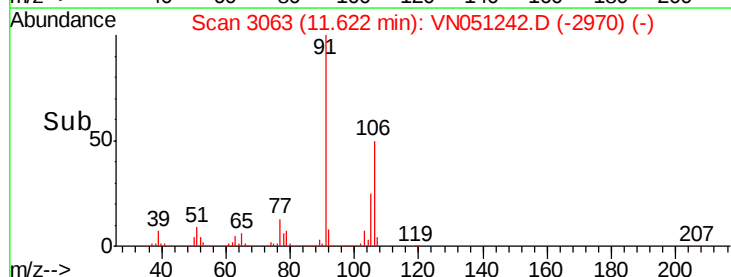
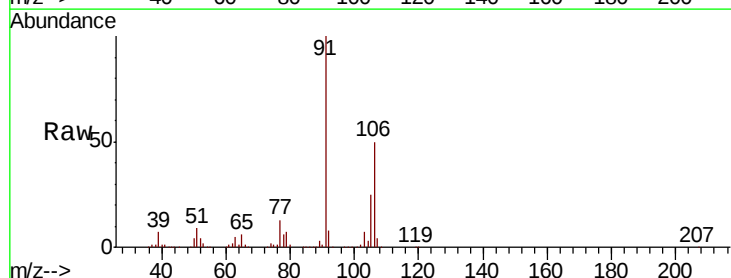
Acq: 16 Sep 2018 00:06

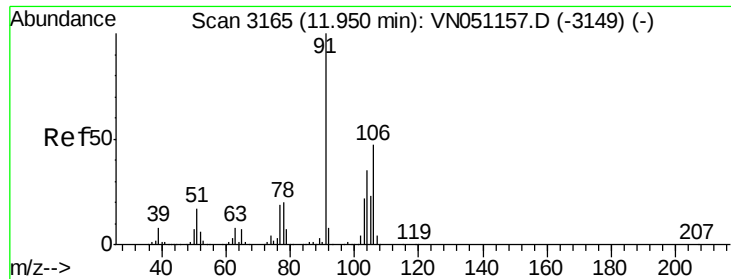
Tgt Ion: 106 Resp: 438971

Ion Ratio Lower Upper

106 100

91 198.1 159.8 239.6





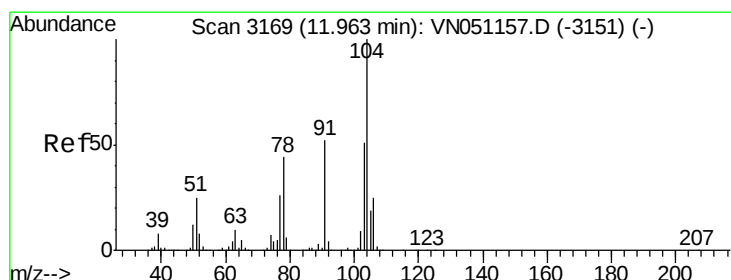
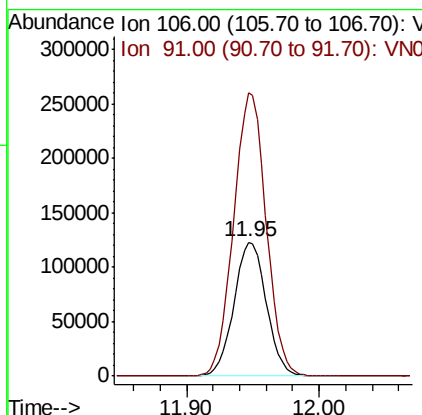
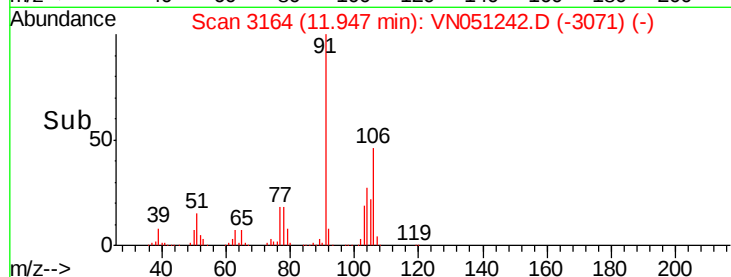
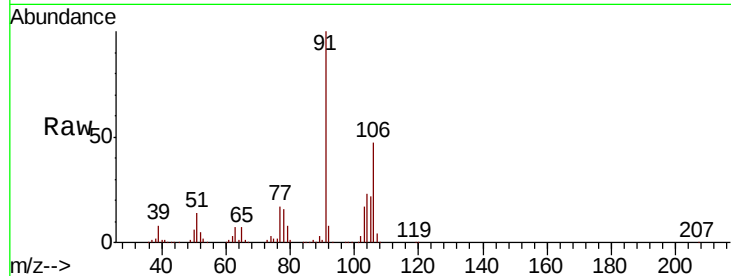
#69
o-Xylene
Concen: 18.03 ug/l
RT: 11.95 min Scan# 3164
Delta R.T. -0.00 min
Lab File: VN051242.D
Acq: 16 Sep 2018 00:06

Instrument :
MSVOA_N
ClientSampleId :
VN0915WBSD02

Tot Ion	Ion	Ratio	Resp	Lower	Upper
106	106	100	208262		
91	91	212.8	105.1	315.1	

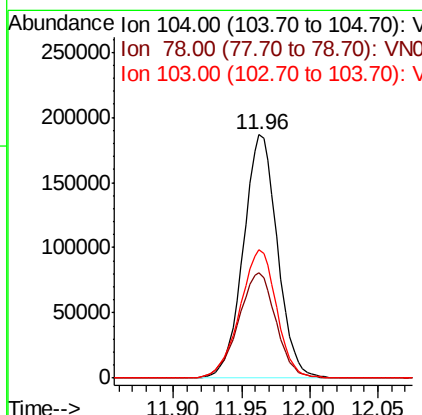
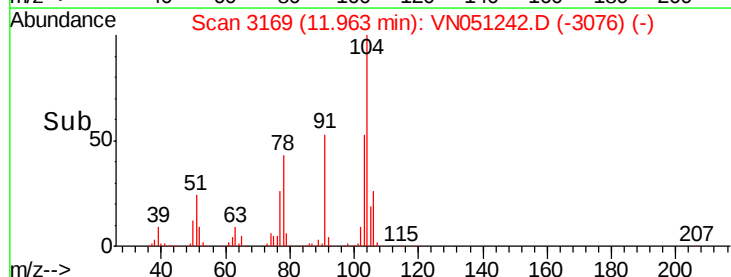
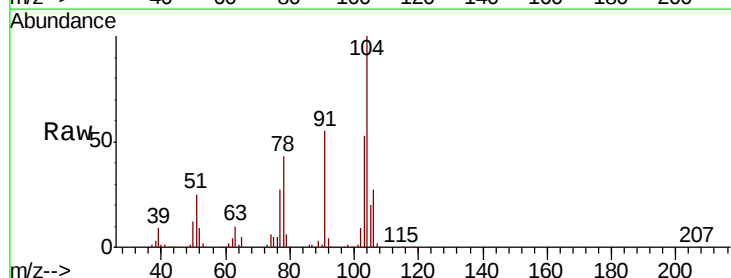
Manual Integrations
APPROVED

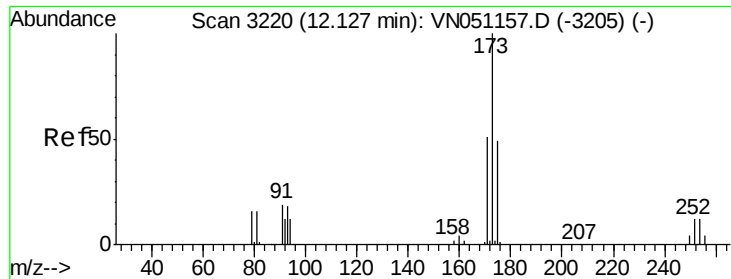
MMDadoda
9/18/2018 4:32:04 PM



#70
Styrene
Concen: 18.08 ug/l
RT: 11.96 min Scan# 3169
Delta R.T. -0.00 min
Lab File: VN051242.D
Acq: 16 Sep 2018 00:06

Tgt Ion	Ion	Ratio	Resp	Lower	Upper
104	104	100	323909		
78	78	47.7	37.7	56.5	
103	103	56.7	44.6	67.0	





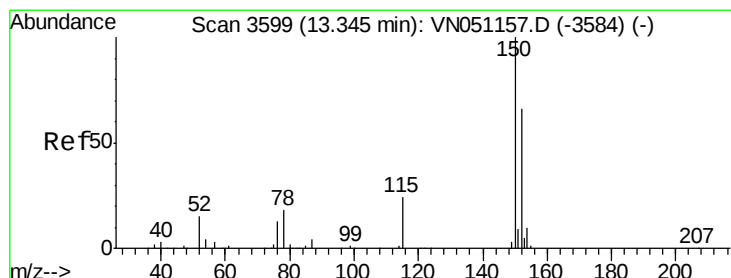
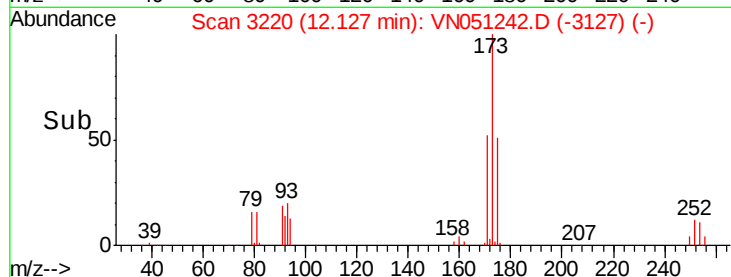
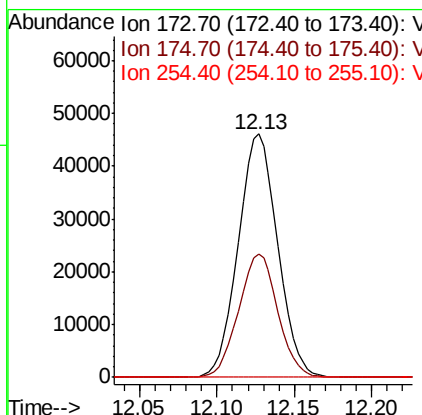
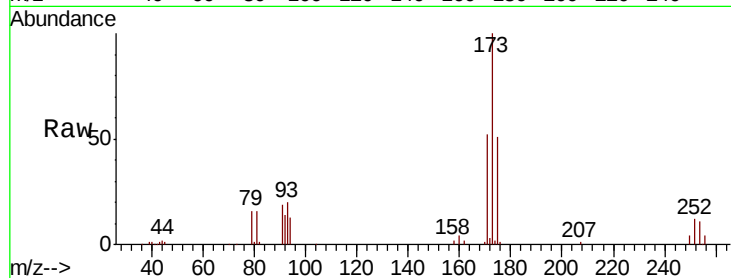
#71
 Bromoform
 Concen: 16.82 ug/l
 RT: 12.13 min Scan# 3220
 Delta R.T. -0.00 min
 Lab File: VN051242.D
 Acq: 16 Sep 2018 00:06

Instrument :
 MSVOA_N
 ClientSampleId :
 VN0915WBSD02

Tot Ion	Ratio	Lower	Upper
173	100		
175	50.2	24.3	72.9
254	0.0	0.0	0.0

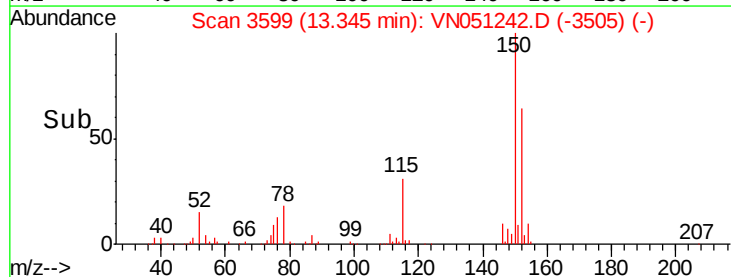
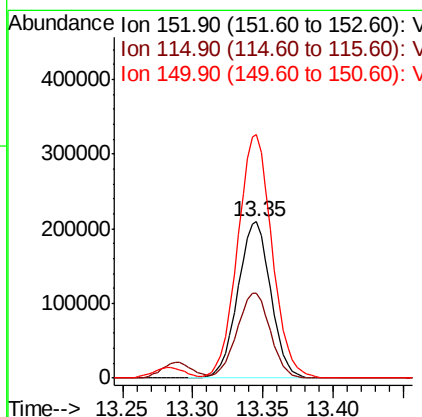
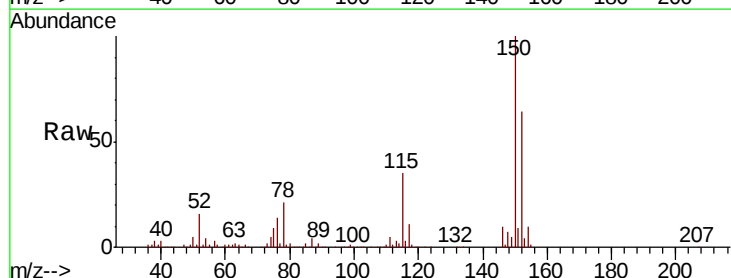
Manual Integrations
 APPROVED

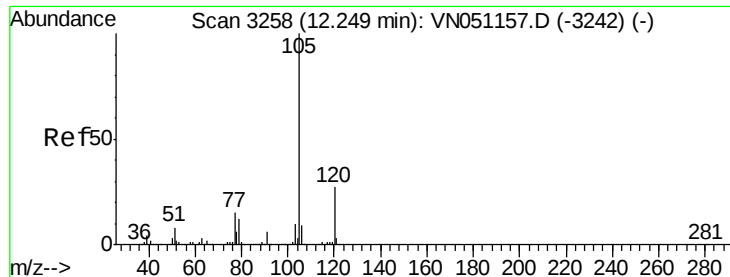
MMDadoda
 9/18/2018 4:32:04 PM



#72
 1,4-Dichlorobenzene-d4
 Concen: 50.00 ug/l
 RT: 13.35 min Scan# 3599
 Delta R.T. 0.00 min
 Lab File: VN051242.D
 Acq: 16 Sep 2018 00:06

Tgt Ion	Ratio	Lower	Upper
152	100		
115	55.3	28.2	84.7
150	162.4	0.0	349.0





#73

Isopropylbenzene

Concen: 18.90 ug/l

RT: 12.25 min Scan# 3258

Delta R.T. -0.00 min

Lab File: VN051242.D

Acq: 16 Sep 2018 00:06

Instrument :

MSVOA_N

ClientSampleId :

VN0915WBSD02

Tot Ion: 105 Resp: 544243

Ion Ratio Lower Upper

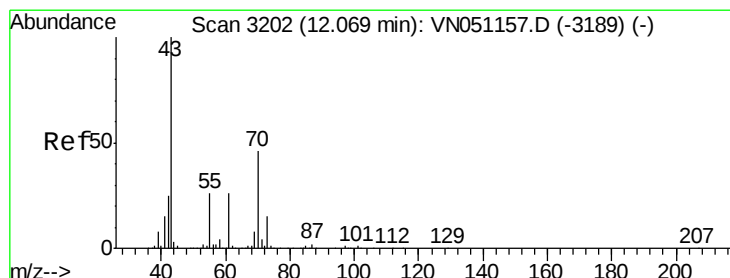
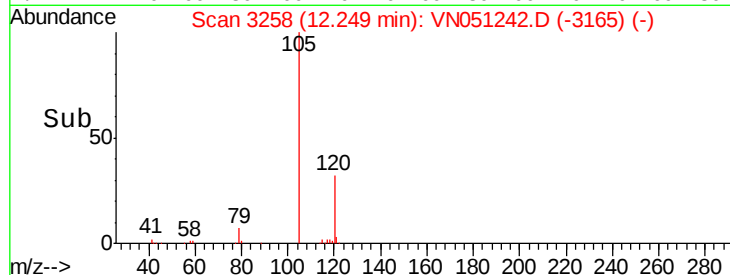
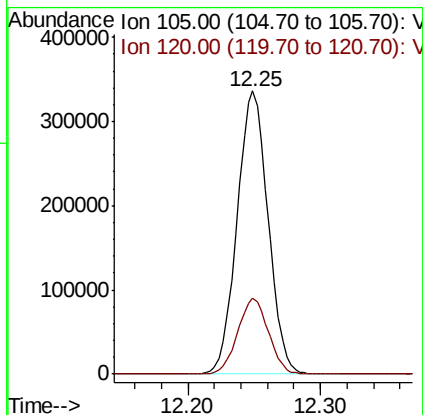
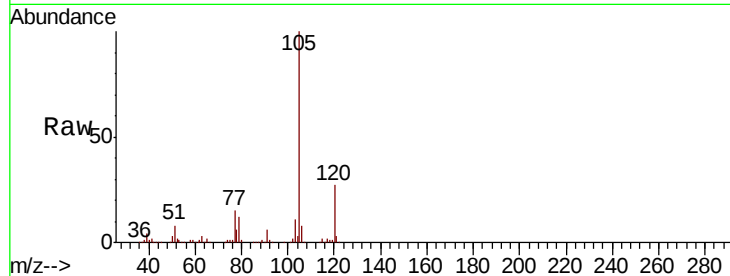
105 100

120 26.7 13.6 40.7

Manual Integrations
APPROVED

MMDadoda

9/18/2018 4:32:04 PM



#74

N-ethyl acetate

Concen: 14.22 ug/l

RT: 12.07 min Scan# 3202

Delta R.T. -0.00 min

Lab File: VN051242.D

Acq: 16 Sep 2018 00:06

Tgt Ion: 43 Resp: 103057

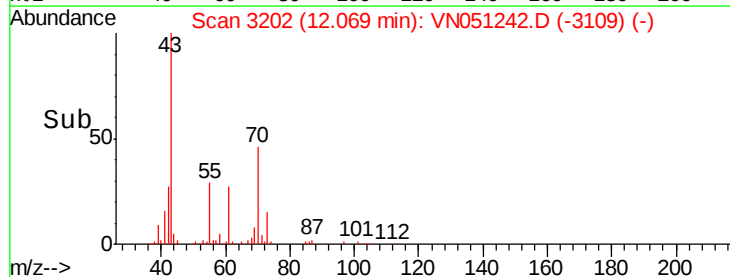
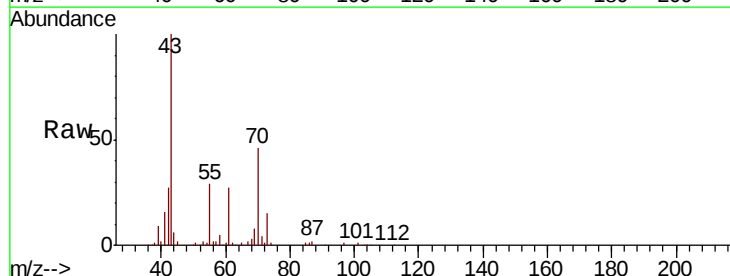
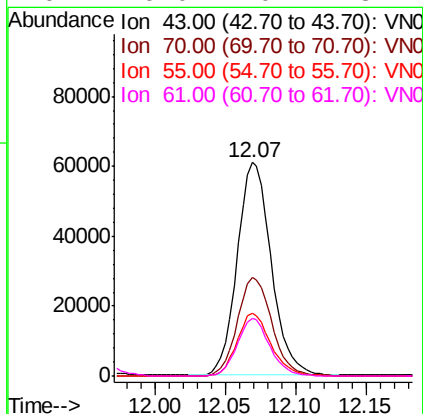
Ion Ratio Lower Upper

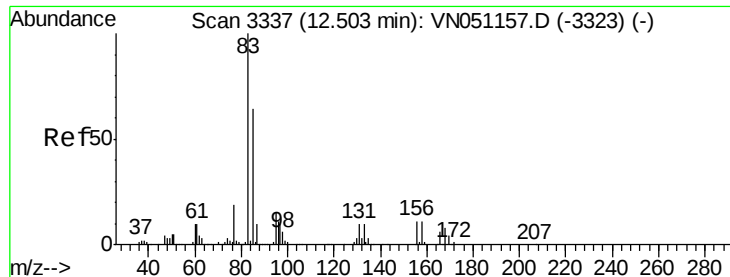
43 100

70 46.8 37.0 55.4

55 29.3 21.3 31.9

61 26.0 20.7 31.1





#75

1,1,2,2-Tetrachloroethane

Concen: 18.15 ug/l

RT: 12.50 min Scan# 3337

Delta R.T. 0.00 min

Lab File: VN051242.D

Acq: 16 Sep 2018 00:06

Instrument :

MSVOA_N

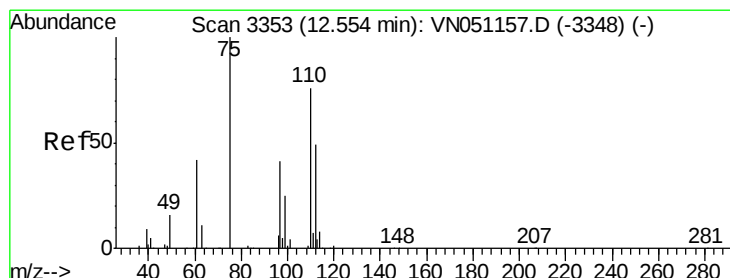
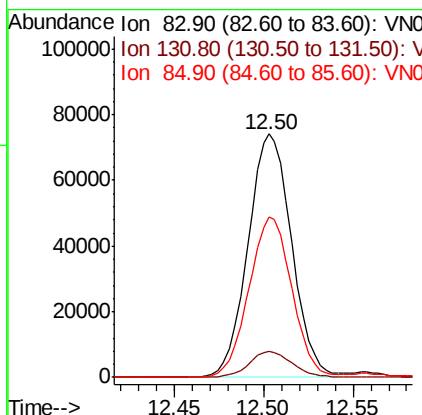
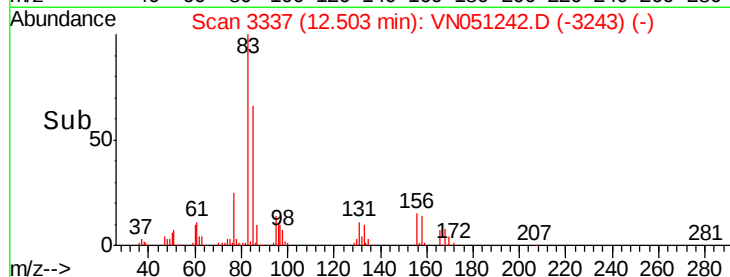
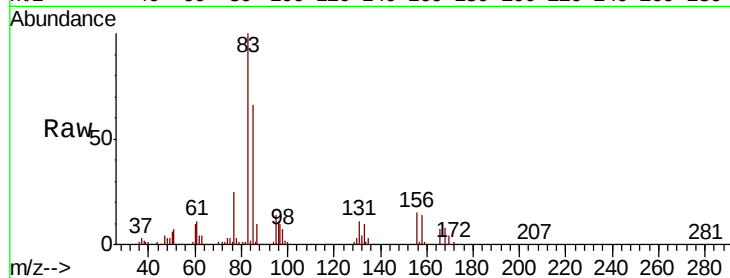
ClientSampleId :

VN0915WBSD02

Tot Ion:	83	Resp:	126581
Ion Ratio	Lower	Upper	
83	100		
131	10.6	5.3	16.1
85	65.0	32.3	96.8

Manual Integrations
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#76

1,2,3-Trichloropropane

Concen: 18.96 ug/l m

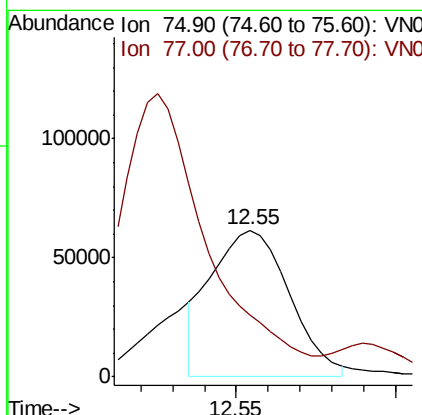
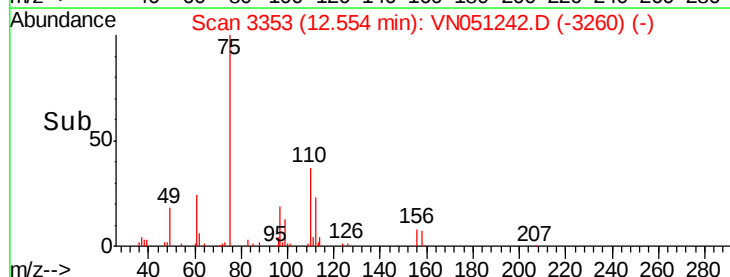
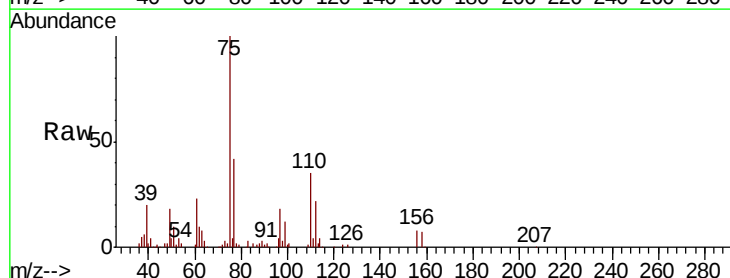
RT: 12.55 min Scan# 3353

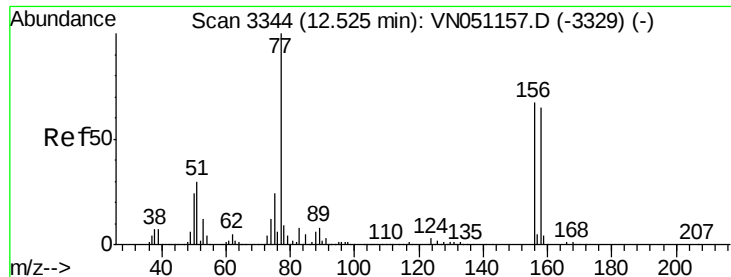
Delta R.T. 0.00 min

Lab File: VN051242.D

Acq: 16 Sep 2018 00:06

Tgt Ion:	75	Resp:	105860
Ion Ratio	Lower	Upper	
75	100		
77	0.0	0.0	0.0





#77

Bromobenzene

Concen: 18.16 ug/l

RT: 12.53 min Scan# 3344

Delta R.T. -0.00 min

Lab File: VN051242.D

Acq: 16 Sep 2018 00:06

Instrument :

MSVOA_N

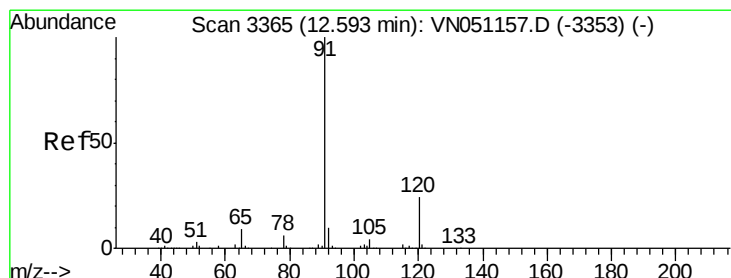
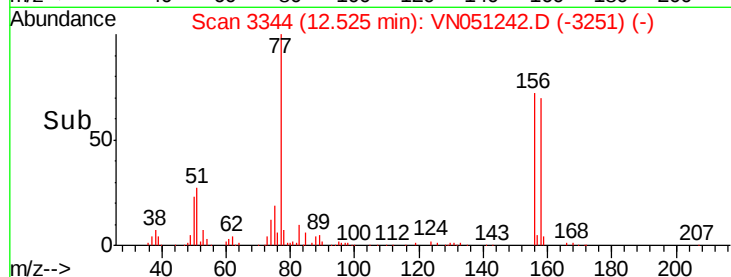
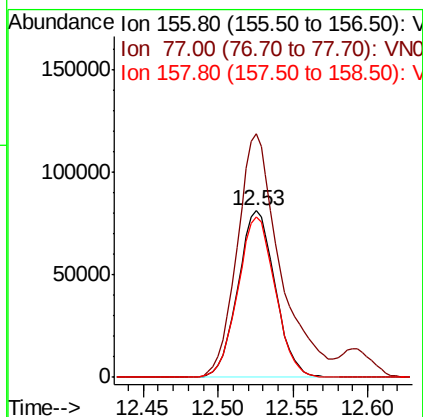
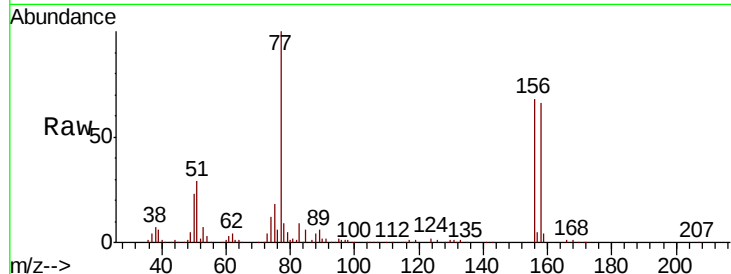
ClientSampleId :

VN0915WBSD02

Tot Ion:	156	Resp:	140486
Ion Ratio	Lower	Upper	
156	100		
77	169.8	87.5	262.6
158	96.7	49.0	147.2

Manual Integrations
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#78

n-propylbenzene

Concen: 18.48 ug/l

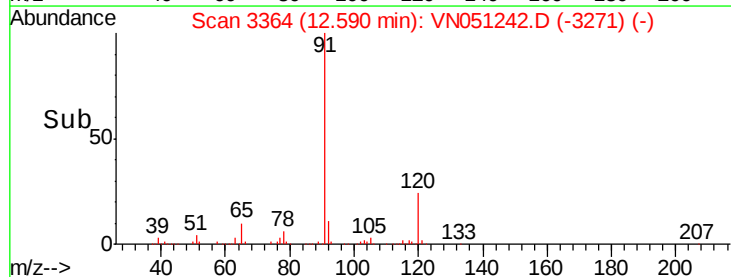
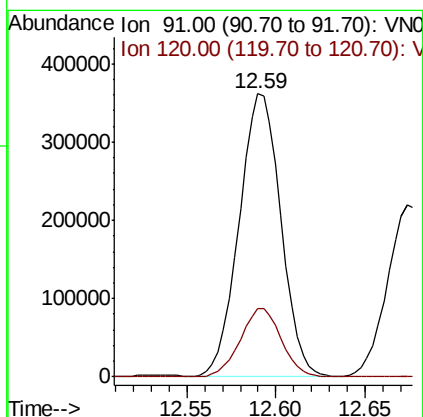
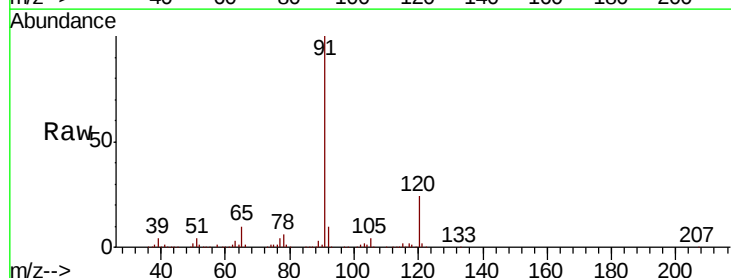
RT: 12.59 min Scan# 3364

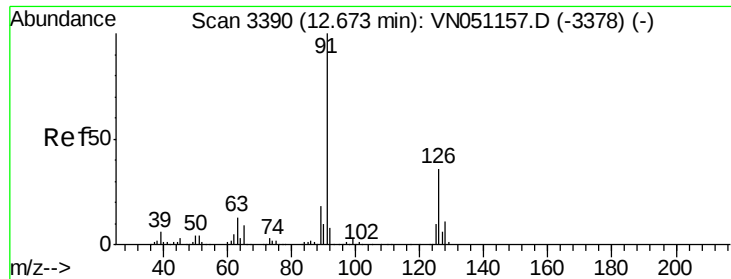
Delta R.T. -0.00 min

Lab File: VN051242.D

Acq: 16 Sep 2018 00:06

Tgt Ion:	91	Resp:	585089
Ion Ratio	Lower	Upper	
91	100		
120	23.8	12.0	36.0





#79

2-Chlorotoluene

Concen: 18.53 ug/l

RT: 12.67 min Scan# 3390

Delta R.T. -0.00 min

Lab File: VN051242.D

Acq: 16 Sep 2018 00:06

Instrument :

MSVOA_N

ClientSampleId :

VN0915WBSD02

Tot Ion: 91 Resp: 366532

Ion Ratio Lower Upper

91 100

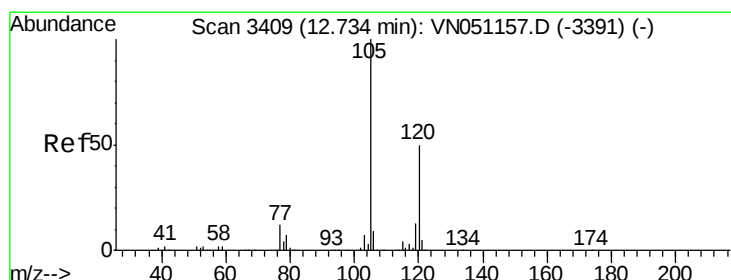
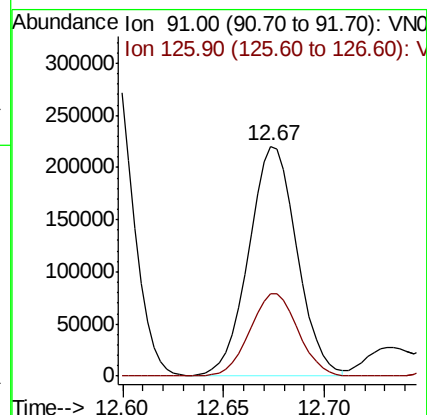
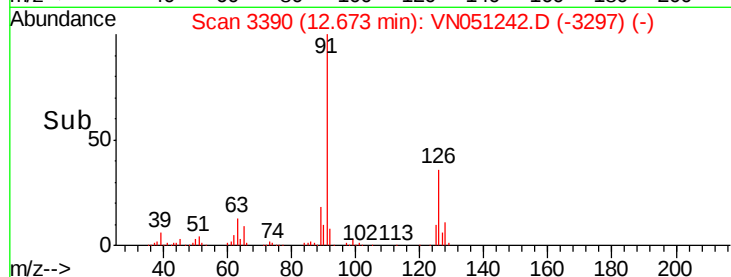
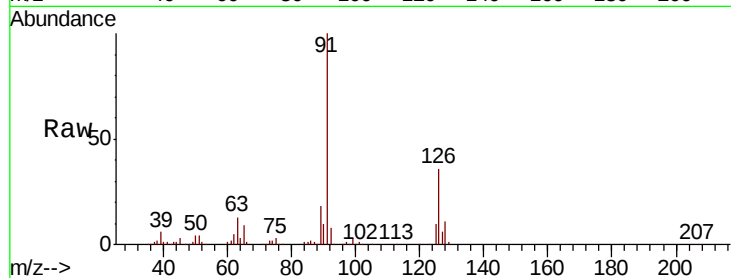
126 36.2 17.9 53.7

Manual Integrations

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#80

1,3,5-Trimethylbenzene

Concen: 19.04 ug/l

RT: 12.73 min Scan# 3408

Delta R.T. -0.00 min

Lab File: VN051242.D

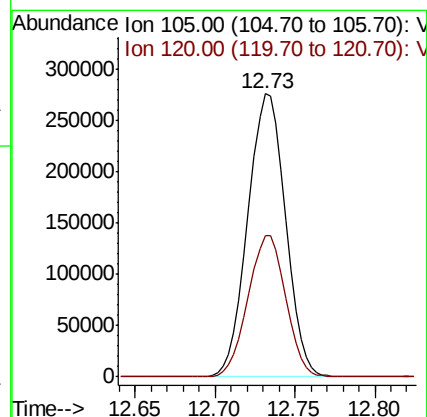
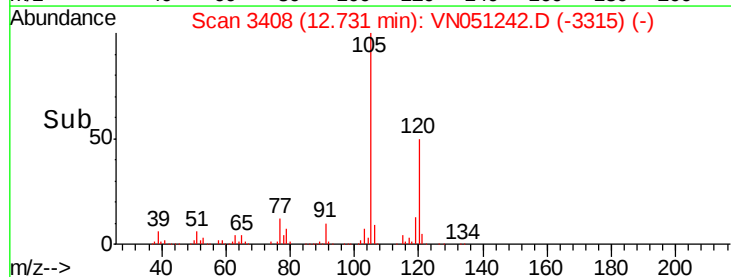
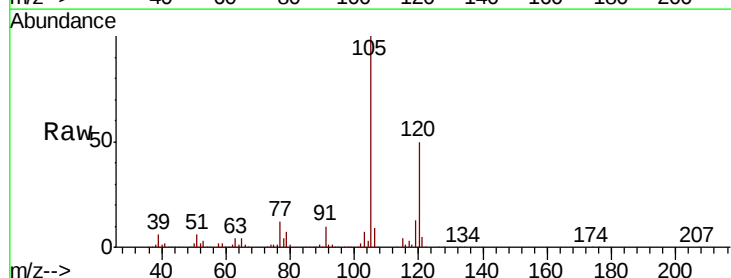
Acq: 16 Sep 2018 00:06

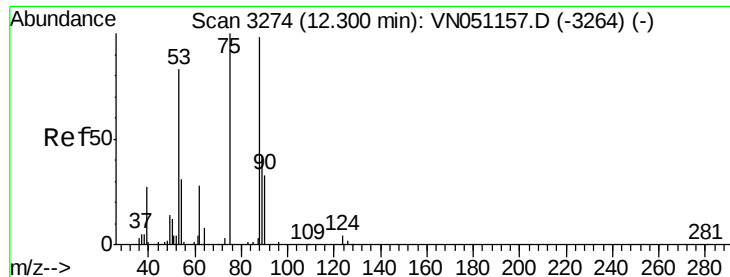
Tgt Ion: 105 Resp: 443336

Ion Ratio Lower Upper

105 100

120 50.0 24.9 74.6





#81

trans-1,4-Dichloro-2-butene

Concen: 13.60 ug/l

RT: 12.30 min Scan# 3274

Delta R.T. -0.00 min

Lab File: VN051242.D

Acq: 16 Sep 2018 00:06

Instrument :

MSVOA_N

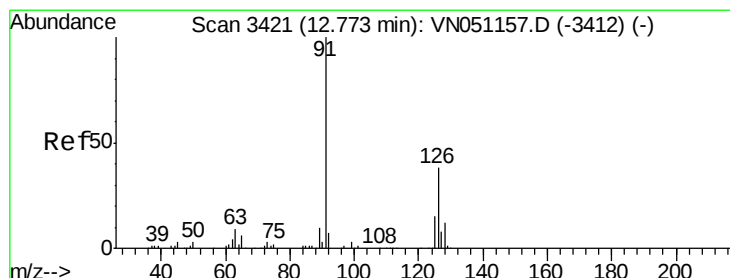
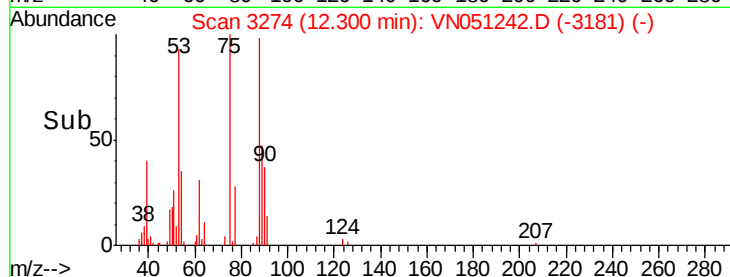
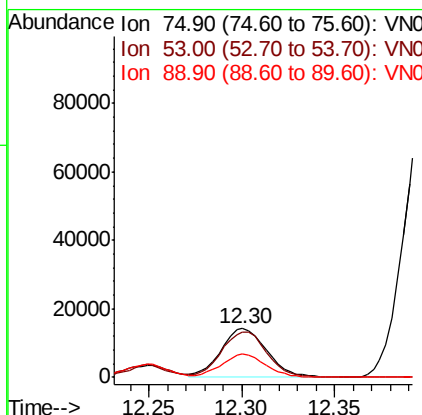
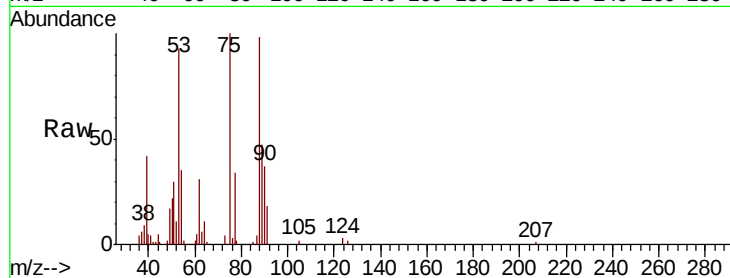
ClientSampleId :

VN0915WBSD02

Tot Ion:	75	Resp:	24586
Ion	Ratio	Lower	Upper
75	100		
53	92.4	67.8	101.8
89	45.0	36.0	54.0

Manual Integrations
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#82

4-Chlorotoluene

Concen: 17.99 ug/l

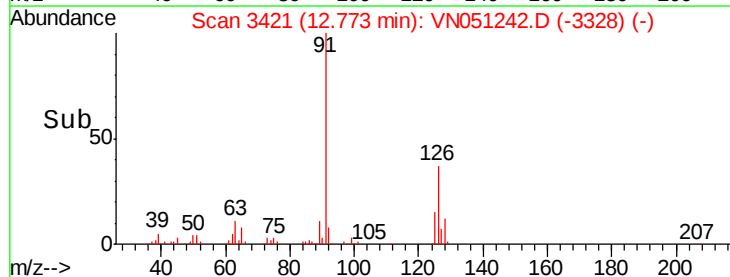
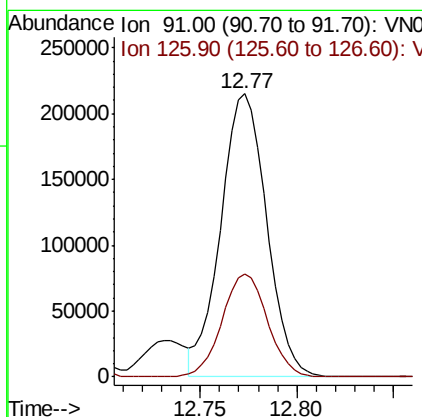
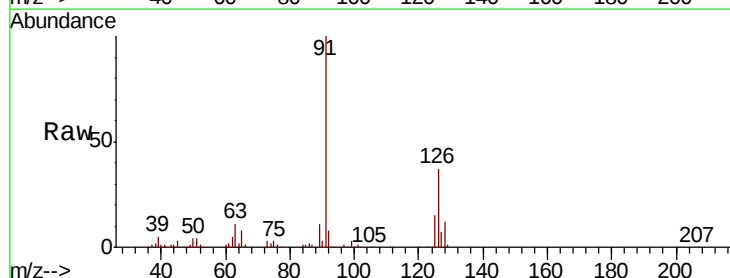
RT: 12.77 min Scan# 3421

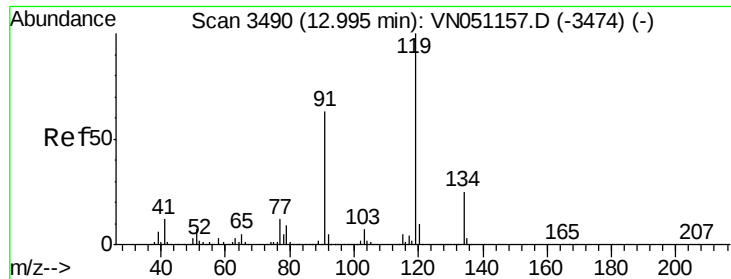
Delta R.T. -0.00 min

Lab File: VN051242.D

Acq: 16 Sep 2018 00:06

Tgt Ion:	91	Resp:	353371
Ion	Ratio	Lower	Upper
91	100		
126	36.1	17.6	52.8





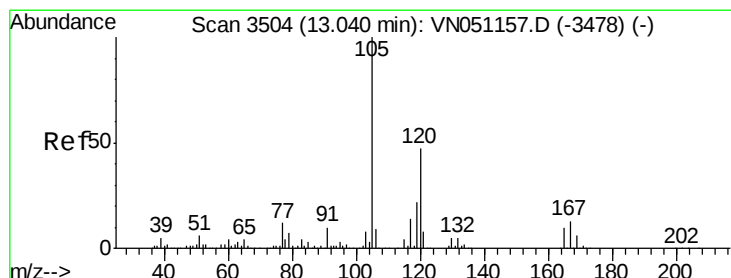
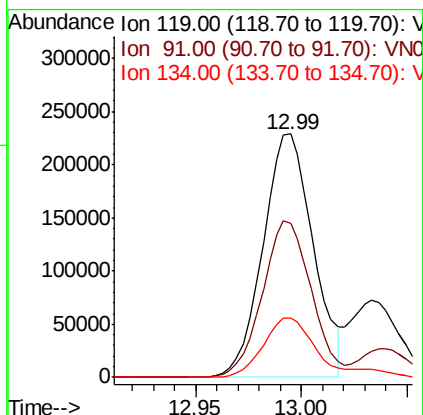
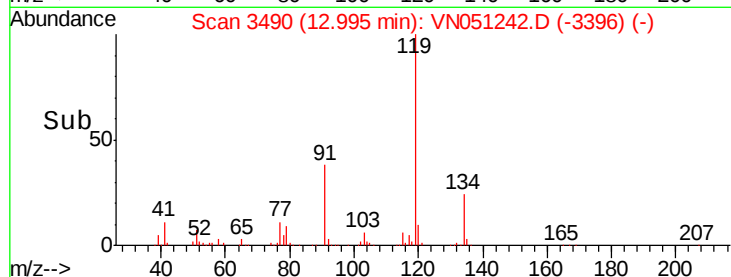
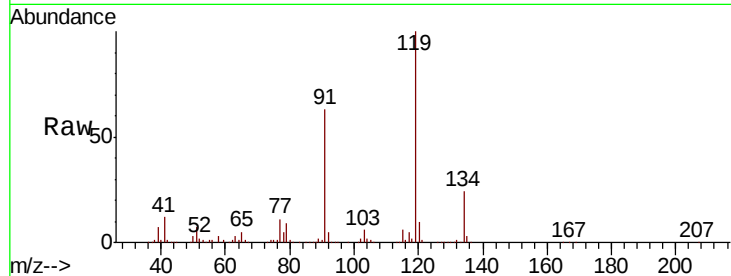
#83
 tert-Butylbenzene
 Concen: 18.41 ug/l
 RT: 12.99 min Scan# 3490
 Delta R.T. 0.00 min
 Lab File: VN051242.D
 Acq: 16 Sep 2018 00:06

Instrument :
 MSVOA_N
 ClientSampleId :
 VN0915WBSD02

Tot Ion	Ratio	Lower	Upper
119	100		
91	62.8	30.8	92.3
134	24.6	13.2	39.6

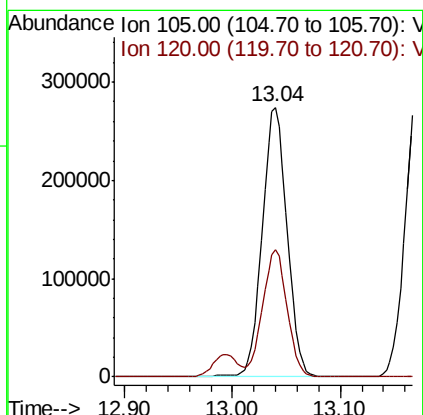
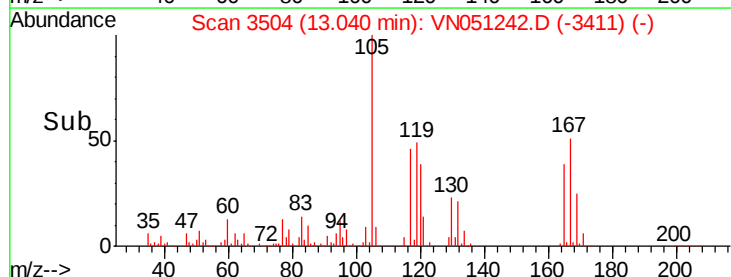
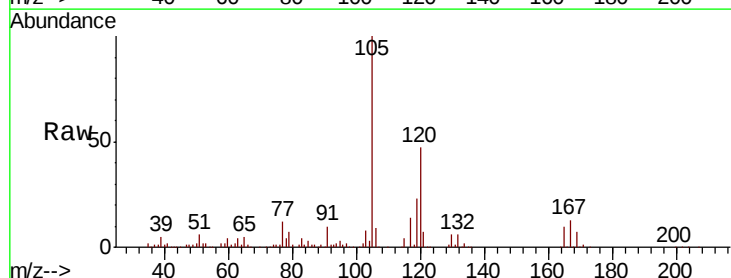
Manual Integrations
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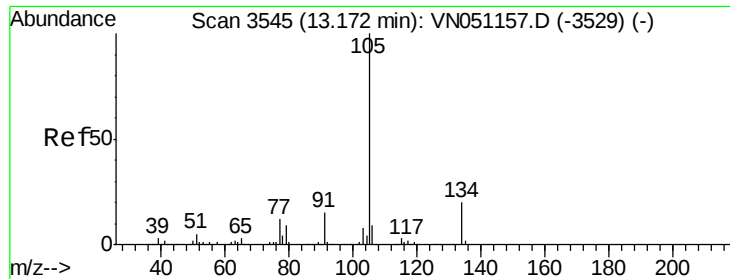
MMDadoda
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#84
 1,2,4-Trimethylbenzene
 Concen: 19.11 ug/l
 RT: 13.04 min Scan# 3504
 Delta R.T. -0.00 min
 Lab File: VN051242.D
 Acq: 16 Sep 2018 00:06

Tgt Ion	Ratio	Lower	Upper
105	100		
120	46.7	23.3	69.8





#85

sec-Butylbenzene

Concen: 18.47 ug/l

RT: 13.17 min Scan# 3545

Delta R.T. -0.00 min

Lab File: VN051242.D

Acq: 16 Sep 2018 00:06

Instrument :

MSVOA_N

ClientSampleId :

VN0915WBSD02

Tot Ion:105 Resp: 486787

Ion Ratio Lower Upper

105 100

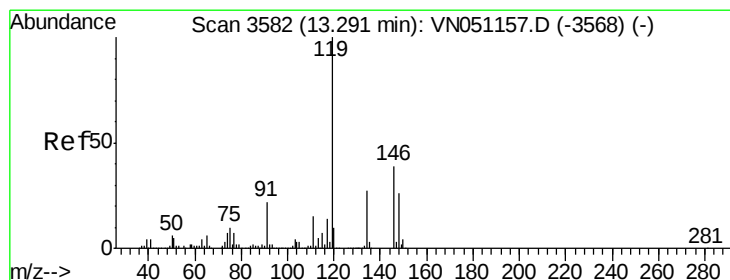
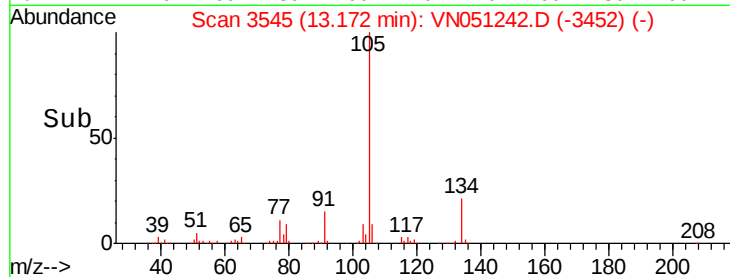
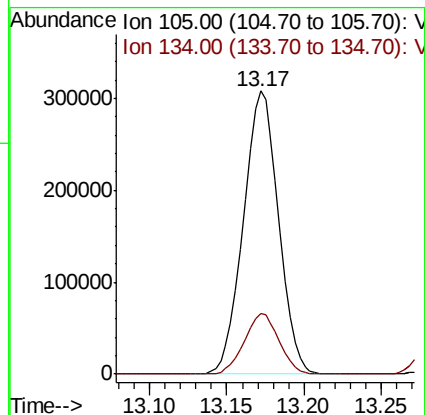
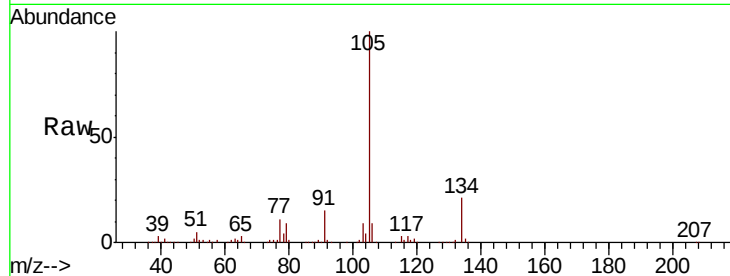
134 21.1 10.4 31.4

Manual Integrations

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#86

p-Isopropyltoluene

Concen: 18.68 ug/l

RT: 13.29 min Scan# 3581

Delta R.T. -0.00 min

Lab File: VN051242.D

Acq: 16 Sep 2018 00:06

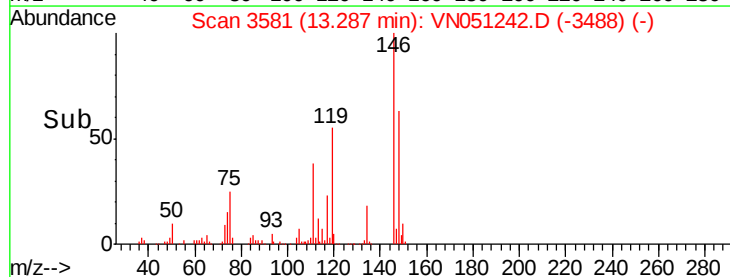
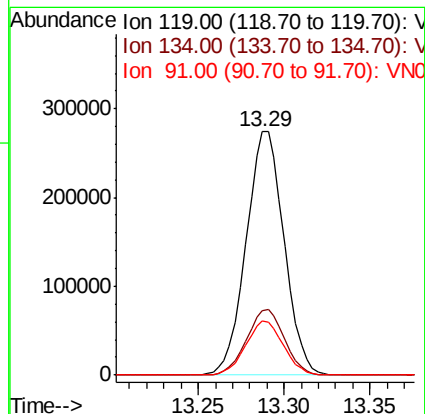
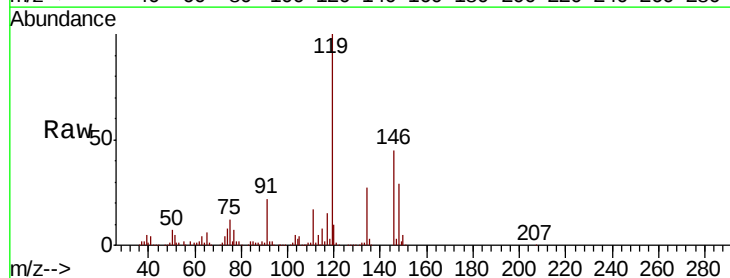
Tgt Ion:119 Resp: 417569

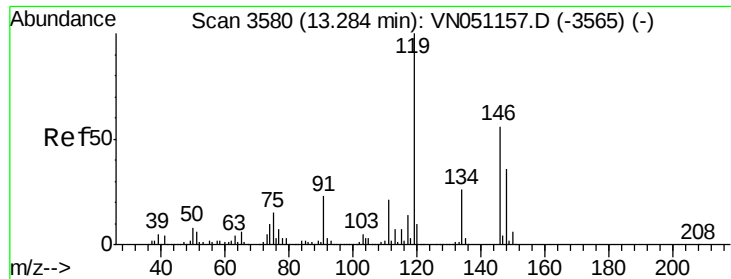
Ion Ratio Lower Upper

119 100

134 26.9 13.5 40.4

91 22.0 10.9 32.9





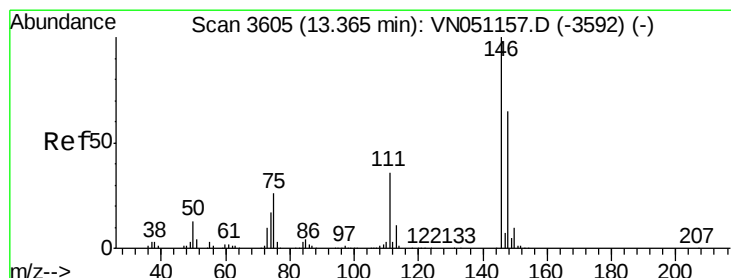
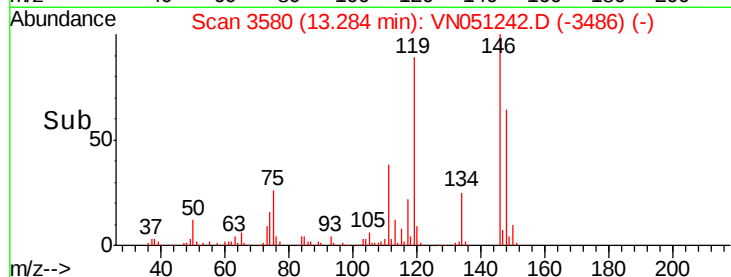
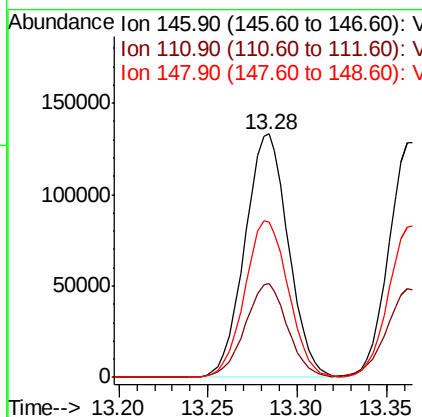
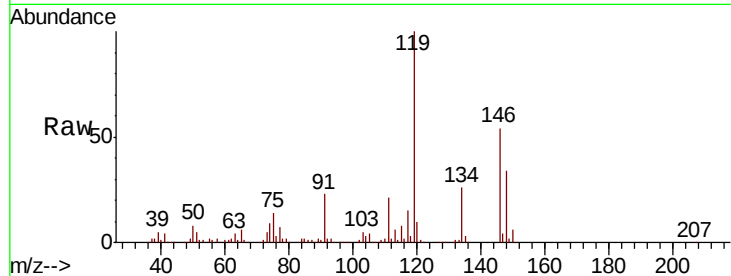
#87
 1,3-Dichlorobenzene
 Concen: 17.31 ug/l
 RT: 13.28 min Scan# 3580
 Delta R.T. 0.00 min
 Lab File: VN051242.D
 Acq: 16 Sep 2018 00:06

Instrument :
 MSVOA_N
 ClientSampleId :
 VN0915WBSD02

Tot Ion	Ratio	Resp	Lower	Upper
146	100	227158		
111	37.4	19.1	57.1	
148	64.7	32.2	96.6	

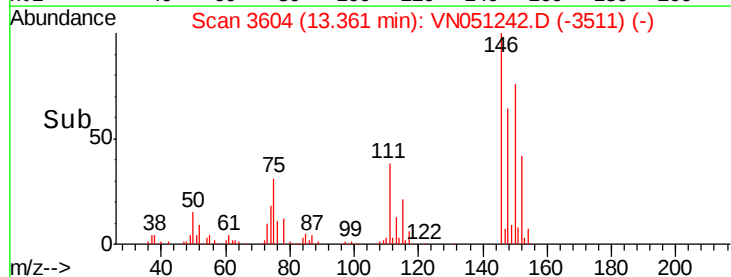
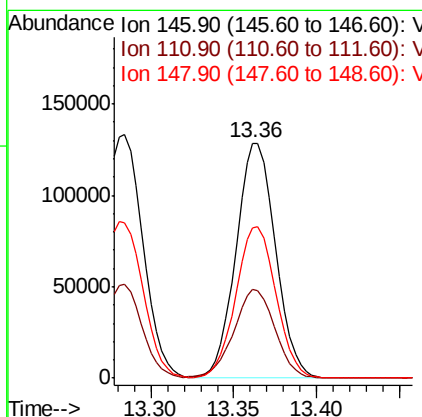
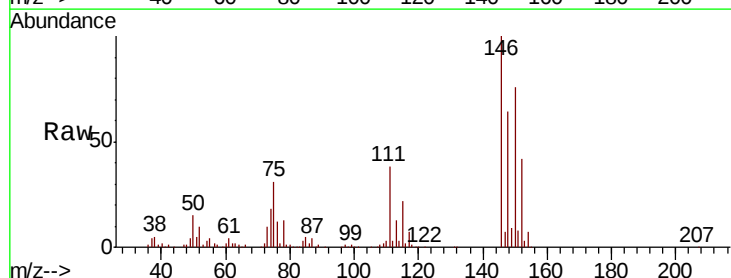
Manual Integrations
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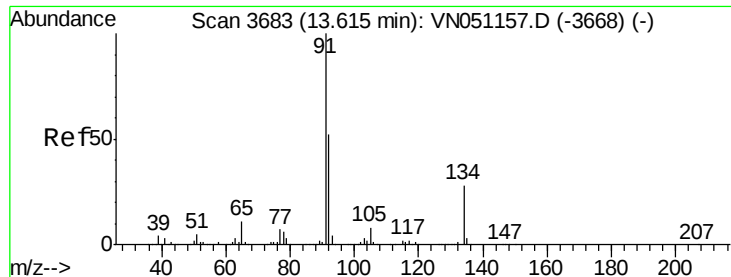
MMDadoda
 9/18/2018 4:32:04 PM



#88
 1,4-Dichlorobenzene
 Concen: 17.74 ug/l
 RT: 13.36 min Scan# 3604
 Delta R.T. 0.00 min
 Lab File: VN051242.D
 Acq: 16 Sep 2018 00:06

Tgt Ion	Ratio	Resp	Lower	Upper
146	100	213590		
111	39.1	18.4	55.0	
148	65.5	32.2	96.6	





#89

n-Butylbenzene

Concen: 15.92 ug/l

RT: 13.62 min Scan# 3683

Delta R.T. 0.00 min

Lab File: VN051242.D

Acq: 16 Sep 2018 00:06

Instrument :

MSVOA_N

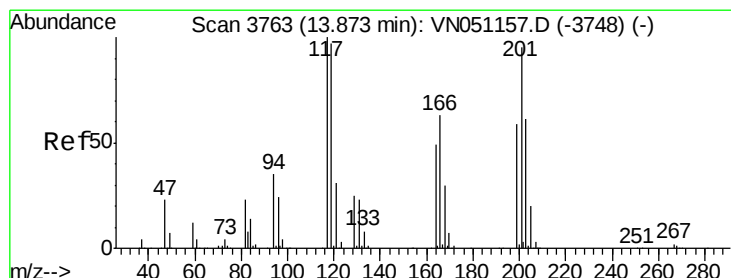
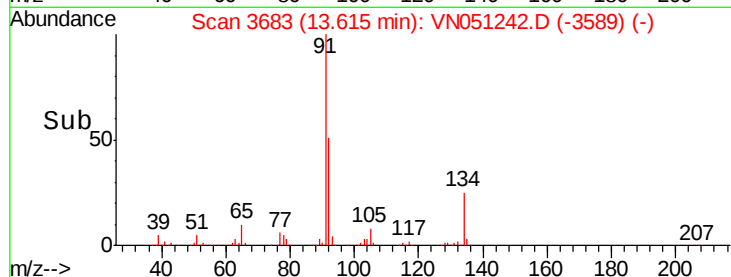
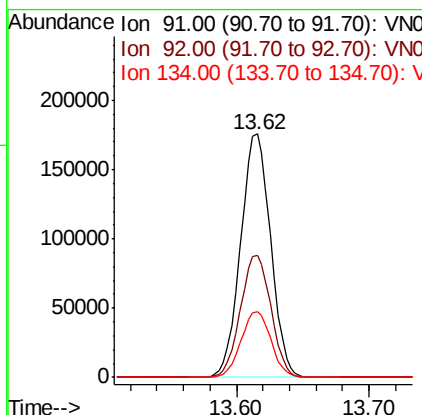
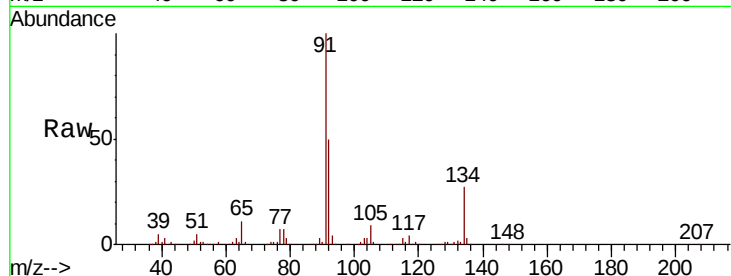
ClientSampleId :

VN0915WBSD02

Tot Ion:	91	Resp:	276966
Ion	Ratio	Lower	Upper
91	100		
92	50.8	26.2	78.6
134	26.7	13.7	41.1

Manual Integrations
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#90

Hexachloroethane

Concen: 19.74 ug/l

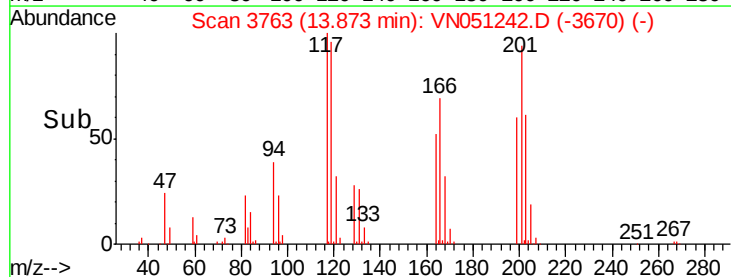
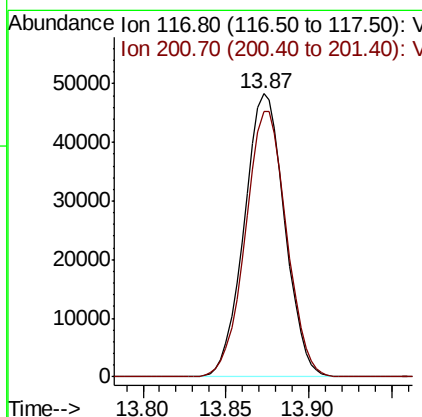
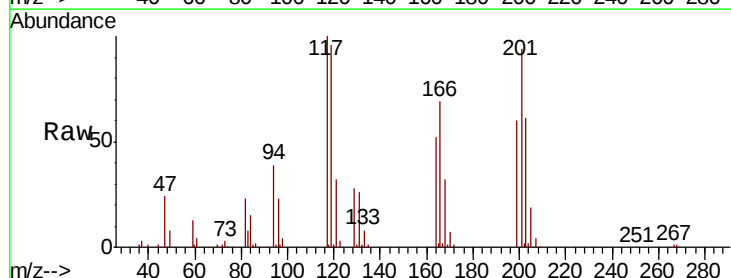
RT: 13.87 min Scan# 3763

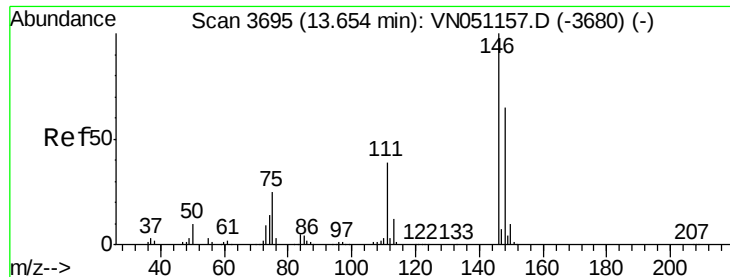
Delta R.T. 0.00 min

Lab File: VN051242.D

Acq: 16 Sep 2018 00:06

Tgt Ion:	117	Resp:	81847
Ion	Ratio	Lower	Upper
117	100		
201	95.0	47.3	142.0





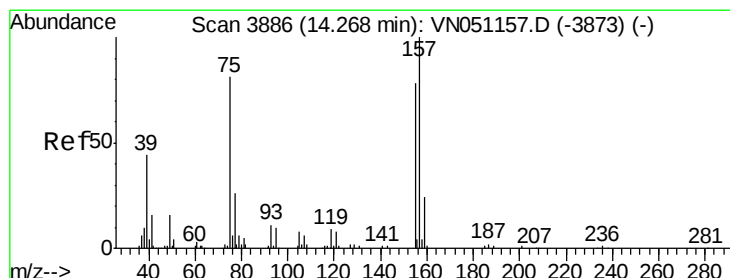
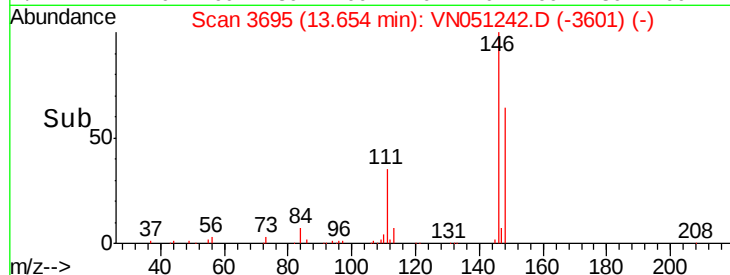
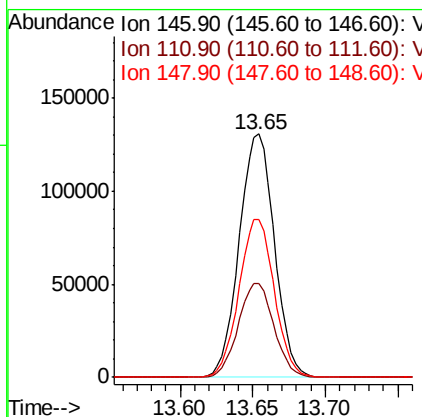
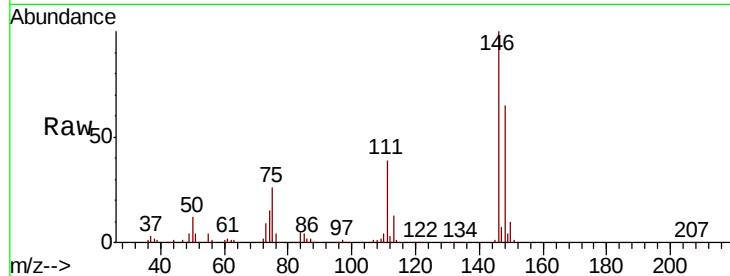
#91
 1,2-Dichlorobenzene
 Concen: 17.28 ug/l
 RT: 13.65 min Scan# 3695
 Delta R.T. 0.00 min
 Lab File: VN051242.D
 Acq: 16 Sep 2018 00:06

Instrument :
 MSVOA_N
 ClientSampleId :
 VN0915WBSD02

Tot Ion	Ratio	Lower	Upper
146	100		
111	39.1	19.7	59.0
148	65.0	32.1	96.3

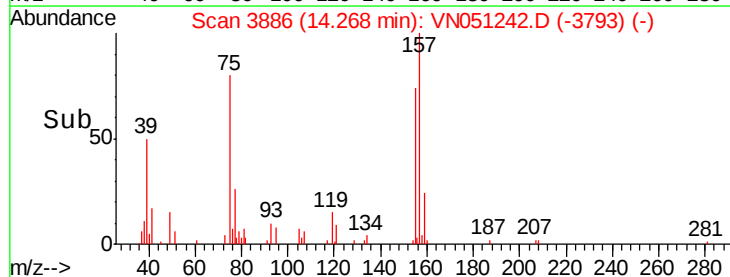
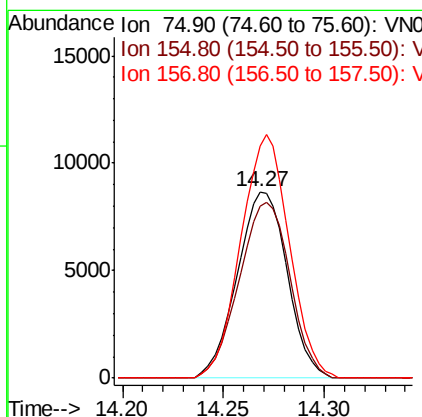
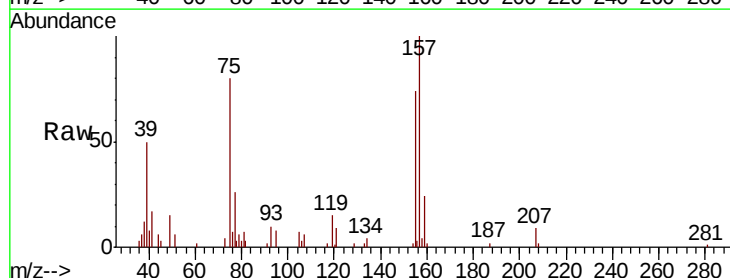
Manual Integrations
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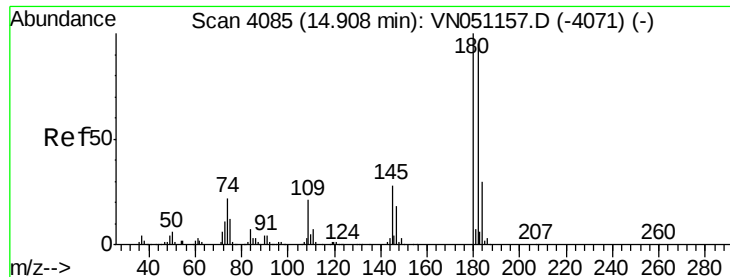
MMDadoda
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#92
 1,2-Dibromo-3-Chloropropane
 Concen: 15.74 ug/l
 RT: 14.27 min Scan# 3886
 Delta R.T. 0.00 min
 Lab File: VN051242.D
 Acq: 16 Sep 2018 00:06

Tgt Ion	Ratio	Lower	Upper
75	100		
155	96.2	48.7	146.1
157	126.7	63.6	190.9





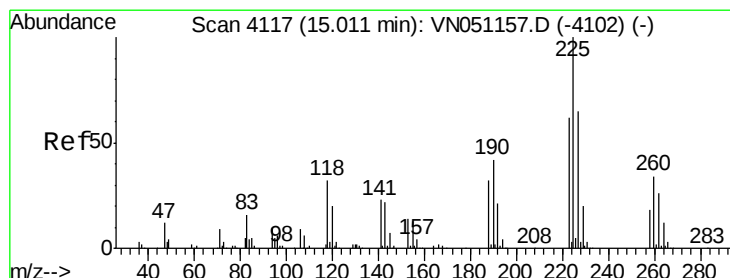
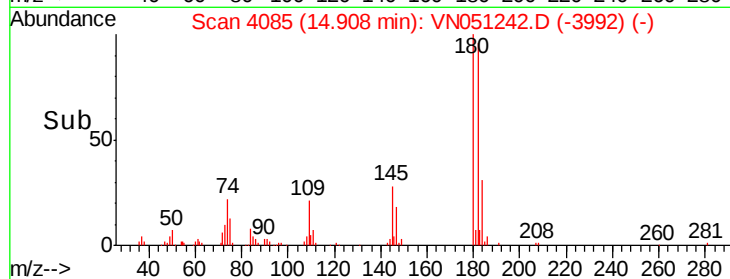
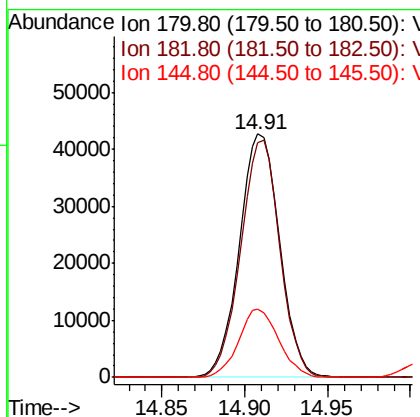
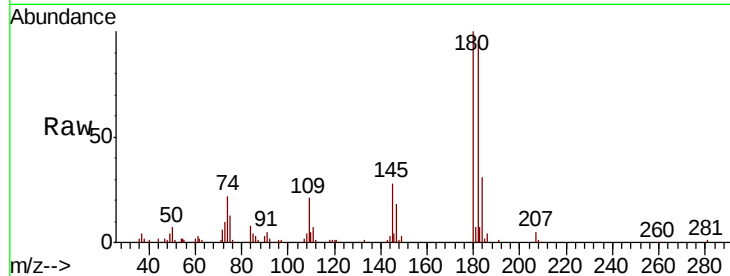
#93
 1,2,4-Trichlorobenzene
 Concen: 14.71 ug/l
 RT: 14.91 min Scan# 4085
 Delta R.T. -0.00 min
 Lab File: VN051242.D
 Acq: 16 Sep 2018 00:06

Instrument :
 MSVOA_N
 ClientSampleId :
 VN0915WBSD02

Tot Ion	Ratio	Lower	Upper
180	100		
182	94.5	47.3	141.8
145	27.8	14.2	42.6

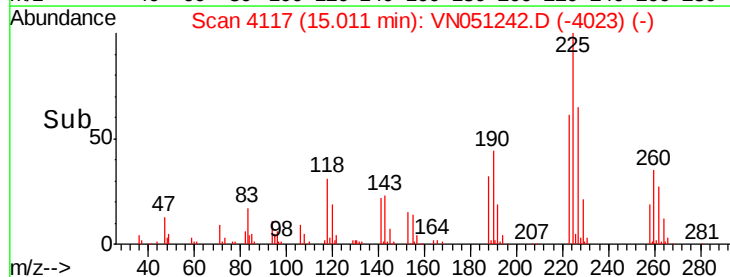
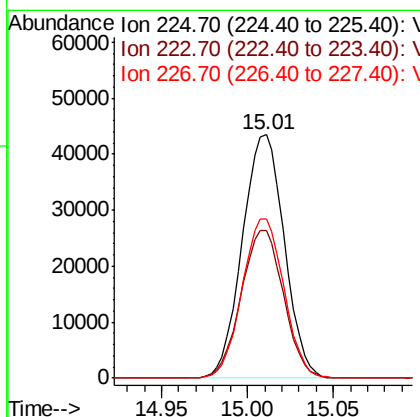
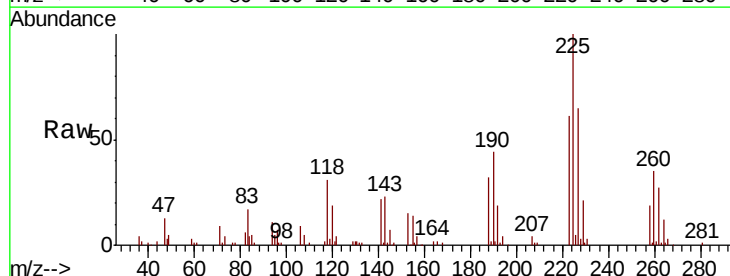
Manual Integrations
 APPROVED

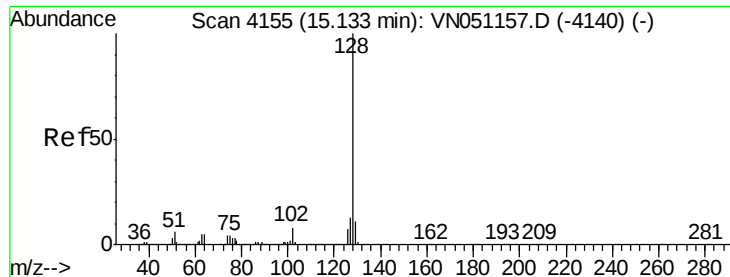
MMDadoda
 9/18/2018 4:32:04 PM



#94
 Hexachlorobutadiene
 Concen: 18.60 ug/l
 RT: 15.01 min Scan# 4117
 Delta R.T. 0.00 min
 Lab File: VN051242.D
 Acq: 16 Sep 2018 00:06

Tgt Ion	Ratio	Lower	Upper
225	100		
223	61.3	31.4	94.0
227	65.1	32.1	96.3





#95

Naphthalene

Concen: 13.94 ug/l

RT: 15.13 min Scan# 4155

Delta R.T. 0.00 min

Lab File: VN051242.D

Acq: 16 Sep 2018 00:06

Instrument :

MSVOA_N

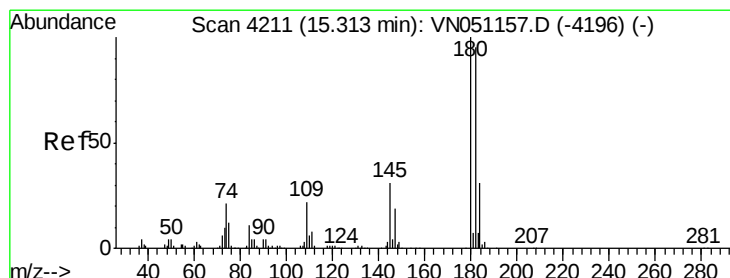
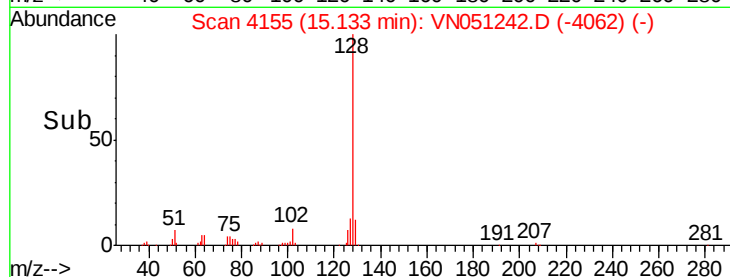
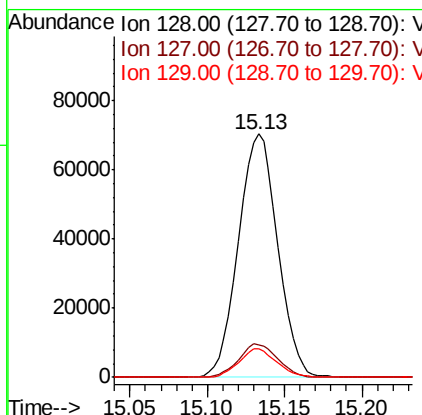
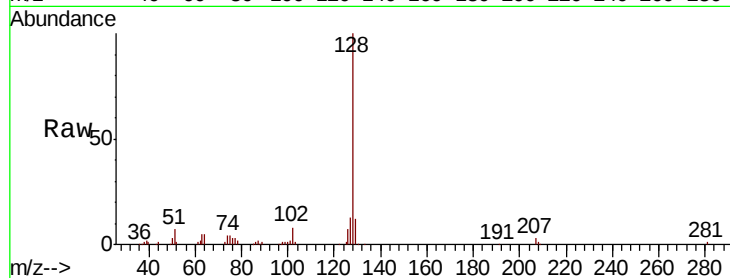
ClientSampleId :

VN0915WBSD02

Tot Ion:	128	Resp:	124236
Ion Ratio	Lower	Upper	
128	100		
127	13.5	10.6	15.8
129	11.1	8.6	12.8

Manual Integrations
APPROVED

MMDadoda
9/18/2018 4:32:04 PM



#96

1,2,3-Trichlorobenzene

Concen: 15.31 ug/l

RT: 15.31 min Scan# 4211

Delta R.T. 0.00 min

Lab File: VN051242.D

Acq: 16 Sep 2018 00:06

Tgt Ion:	180	Resp:	77574
Ion Ratio	Lower	Upper	
180	100		
182	94.2	47.8	143.3
145	28.3	14.6	43.8

