

Data Path : Z:\VOASRV\HPCHEM1\MSVOA N\DATA\VN071218\
 Data File : VN049776.D
 Acq On : 12 Jul 2018 17:31
 Operator : MD\SY
 Sample : VSTDCCC050
 Misc : 5.00mL/MSVOA N/WATER
 ALS Vial : 10 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 VSTDCCC050

Manual Integrations
 APPROVED

MMDadoda
 7/13/2018 1:35:15 PM

Quant Time: Jul 13 03:54:59 2018
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_N\METHODS\82N071218W.M
 Quant Title : SW846 8260
 QLast Update : Thu Jul 12 15:51:38 2018
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	7.67	168	1287547	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	8.59	114	1822168	50.00	ug/l	0.00
63) Chlorobenzene-d5	11.41	117	1663701	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.35	152	882957	50.00	ug/l	0.00

System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	8.03	65	694019	46.34	ug/l	0.00
Spiked Amount	50.000		Recovery	=	92.68%	
35) Dibromofluoromethane	7.59	113	667316	48.58	ug/l	0.00
Spiked Amount	50.000		Recovery	=	97.16%	
50) Toluene-d8	10.09	98	2277294	48.44	ug/l	0.00
Spiked Amount	50.000		Recovery	=	96.88%	
62) 4-Bromofluorobenzene	12.40	95	836273	49.80	ug/l	0.00
Spiked Amount	50.000		Recovery	=	99.60%	

Target Compounds						Qvalue
2) Dichlorodifluoromethane	1.85	85	529525	47.41	ug/l	98
3) Chloromethane	2.06	50	680391	45.98	ug/l	100
4) Vinyl Chloride	2.18	62	769378	47.07	ug/l	99
5) Bromomethane	2.56	94	480466	47.40	ug/l	100
6) Chloroethane	2.70	64	496844	43.38	ug/l	98
7) Trichlorofluoromethane	3.01	101	1076686	44.10	ug/l	98
8) Diethyl Ether	3.41	74	389230	44.49	ug/l	97
9) 1,1,2-Trichlorotrifluoroet	3.75	101	695685	43.90	ug/l	99
10) Methyl Iodide	3.95	142	928590	46.11	ug/l	100
11) Tert butyl alcohol	4.80	59	222309	221.77	ug/l	99
12) 1,1-Dichloroethene	3.73	96	610131	43.82	ug/l	99
13) Acrolein	3.61	56	171054	194.27	ug/l	98
14) Allyl chloride	4.32	41	1016559	44.74	ug/l	99
15) Acrylonitrile	4.99	53	1109875	221.08	ug/l	99
16) Acetone	3.82	43	874979	237.26	ug/l	99
17) Carbon Disulfide	4.05	76	1640726	45.97	ug/l	100
18) Methyl Acetate	4.33	43	573163	45.76	ug/l	99
19) Methyl tert-butyl Ether	5.05	73	1778169	46.04	ug/l	98
20) Methylene Chloride	4.55	84	724652	47.11	ug/l	97
21) trans-1,2-Dichloroethene	5.04	96	669568	44.00	ug/l	98
22) Diisopropyl ether	5.96	45	2189361	46.91	ug/l	96
23) Vinyl Acetate	5.90	43	7298331	233.33	ug/l	99
24) 1,1-Dichloroethane	5.85	63	1292857	44.09	ug/l	100
25) 2-Butanone	6.84	43	1308649	224.21	ug/l	99
26) 2,2-Dichloropropane	6.82	77	1124468	46.20	ug/l	99
27) cis-1,2-Dichloroethene	6.83	96	783573	45.02	ug/l	100
28) Bromochloromethane	7.19	49	616800	46.25	ug/l	97
29) Tetrahydrofuran	7.21	42	820881	223.97	ug/l	99
30) Chloroform	7.37	83	1333555	44.14	ug/l	99
31) Cyclohexane	7.65	56	1087926	46.60	ug/l	99
32) 1,1,1-Trichloroethane	7.57	97	1146134	44.67	ug/l	99
36) 1,1-Dichloropropene	7.79	75	987333	47.02	ug/l	99
37) Ethyl Acetate	6.93	43	578490	46.54	ug/l	99
38) Carbon Tetrachloride	7.77	117	1014836	46.23	ug/l	99

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Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
39) Methylcyclohexane	9.08	83	1086331	49.08	ug/l	99
40) Benzene	8.04	78	2910375	46.33	ug/l	100
41) Methacrylonitrile	7.18	41	324246	46.12	ug/l	98
42) 1,2-Dichloroethane	8.13	62	931004	45.31	ug/l	100
43) Isopropyl Acetate	8.17	43	1048477	46.93	ug/l	95
44) Trichloroethene	8.84	130	778128	46.00	ug/l	100
45) 1,2-Dichloropropane	9.12	63	790620	46.83	ug/l	100
46) Dibromomethane	9.21	93	454446	45.33	ug/l	99
47) Bromodichloromethane	9.40	83	1019903	46.19	ug/l	99
48) Methyl methacrylate	9.20	41	528925	47.35	ug/l	99
49) 1,4-Dioxane	9.20	88	135101	923.08	ug/l	96
51) 4-Methyl-2-Pentanone	9.99	43	2899763	239.06	ug/l	100
52) Toluene	10.16	92	1823482	48.50	ug/l	99
53) t-1,3-Dichloropropene	10.38	75	1036775	48.82	ug/l	97
54) cis-1,3-Dichloropropene	9.84	75	1191724	49.27	ug/l	100
55) 1,1,2-Trichloroethane	10.56	97	674883	47.41	ug/l	100
56) Ethyl methacrylate	10.43	69	843815	49.73	ug/l	99
57) 1,3-Dichloropropane	10.71	76	1113586	46.49	ug/l	99
58) 2-Chloroethyl Vinyl ether	9.70	63	2492764	306.29	ug/l	100
59) 2-Hexanone	10.75	43	1989462	246.71	ug/l	100
60) Dibromochloromethane	10.90	129	773956	46.99	ug/l	99
61) 1,2-Dibromoethane	11.01	107	642338	46.95	ug/l	98
64) Tetrachloroethene	10.63	164	699687	46.32	ug/l	99
65) Chlorobenzene	11.44	112	2027457	46.78	ug/l	100
66) 1,1,1,2-Tetrachloroethane	11.51	131	776880	47.64	ug/l	100
67) Ethyl Benzene	11.51	91	3493096	49.22	ug/l	100
68) m/p-Xylenes	11.62	106	2693935	101.13	ug/l	99
69) o-Xylene	11.95	106	1297748	50.43	ug/l	98
70) Styrene	11.97	104	2139256	52.33	ug/l	100
71) Bromoform	12.13	173	529678	48.07	ug/l #	100
73) Isopropylbenzene	12.25	105	3529822	48.10	ug/l	100
74) N-amyl acetate	12.07	43	920098	48.20	ug/l	100
75) 1,1,2,2-Tetrachloroethane	12.51	83	827900	48.92	ug/l	99
76) 1,2,3-Trichloropropane	12.55	75	736845m	46.98	ug/l	
77) Bromobenzene	12.53	156	886025	45.52	ug/l	99
78) n-propylbenzene	12.59	91	4051379	48.97	ug/l	99
79) 2-Chlorotoluene	12.68	91	2395923	47.32	ug/l	100
80) 1,3,5-Trimethylbenzene	12.73	105	2860252	49.05	ug/l	99
81) trans-1,4-Dichloro-2-buten	12.30	75	233664	48.11	ug/l	99
82) 4-Chlorotoluene	12.77	91	2435756	48.50	ug/l	100
83) tert-Butylbenzene	12.99	119	2519177	48.28	ug/l	98
84) 1,2,4-Trimethylbenzene	13.04	105	2916897	49.88	ug/l	100
85) sec-Butylbenzene	13.17	105	3414408	49.93	ug/l	100
86) p-Isopropyltoluene	13.29	119	2979948	51.50	ug/l	99
87) 1,3-Dichlorobenzene	13.28	146	1580306	46.82	ug/l	99
88) 1,4-Dichlorobenzene	13.36	146	1534933	46.78	ug/l	99
89) n-Butylbenzene	13.62	91	2473191	51.78	ug/l	100
90) Hexachloroethane	13.88	117	547844	48.91	ug/l	99
91) 1,2-Dichlorobenzene	13.65	146	1521173	46.18	ug/l	99
92) 1,2-Dibromo-3-Chloropropan	14.27	75	117175	45.13	ug/l	95

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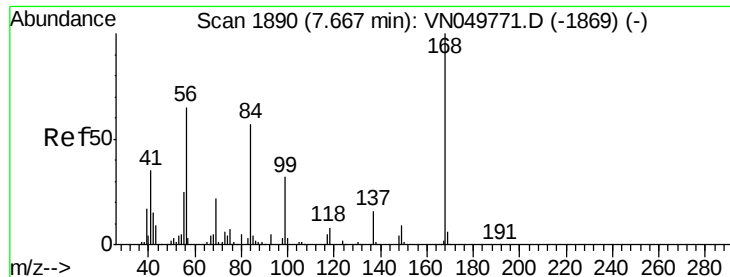
Manual Integrations
APPROVED

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Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
93) 1,2,4-Trichlorobenzene	14.91	180	814976	45.32	ug/l	100
94) Hexachlorobutadiene	15.01	225	514790	51.09	ug/l	100
95) Naphthalene	15.14	128	1656591	43.04	ug/l	100
96) 1,2,3-Trichlorobenzene	15.32	180	799282	50.04	ug/l	99

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



#1

Pentafluorobenzene

Concen: 50.00 ug/l

RT: 7.67 min Scan# 1890

Delta R.T. 0.00 min

Lab File: VN049776.D

Acq: 12 Jul 2018 17:31

Instrument :

MSVOA_N

ClientSampleId :

VSTDCCC050

Tot Ion:168 Resp: 1287547

Ion Ratio Lower Upper

168 100

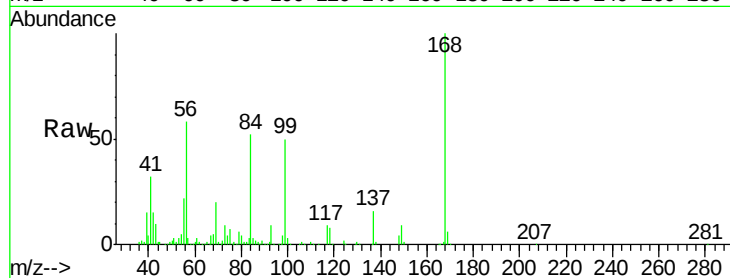
99 49.9 40.6 61.0

Manual Integrations

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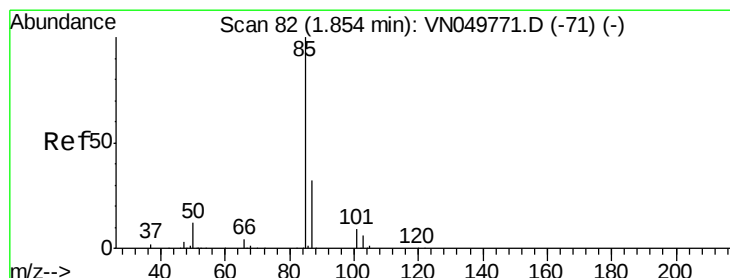
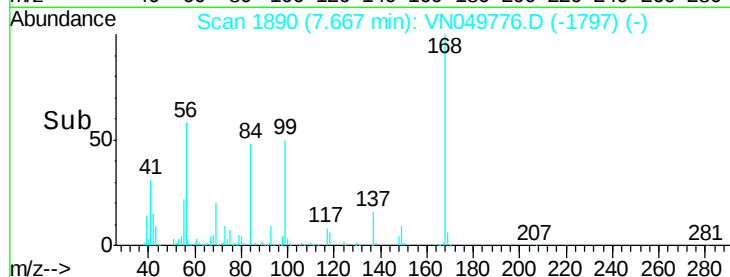
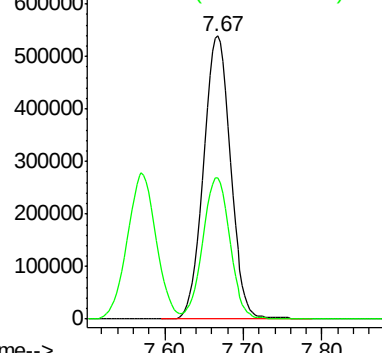
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Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VN



#2

Dichlorodifluoromethane

Concen: 47.41 ug/l

RT: 1.85 min Scan# 82

Delta R.T. 0.00 min

Lab File: VN049776.D

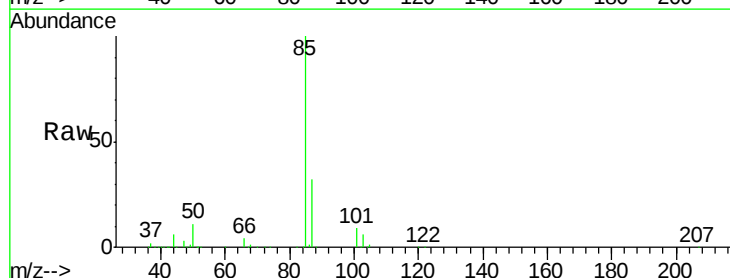
Acq: 12 Jul 2018 17:31

Tgt Ion: 85 Resp: 529525

Ion Ratio Lower Upper

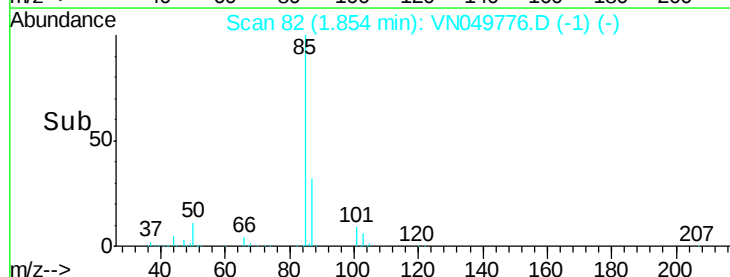
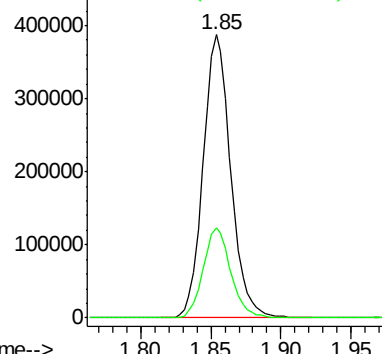
85 100

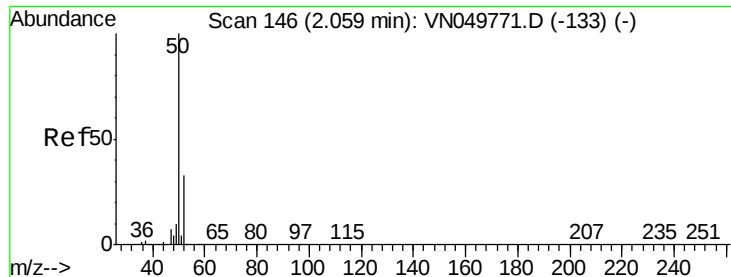
87 31.9 15.4 46.1



Abundance Ion 84.90 (84.60 to 85.60): VN

Ion 86.90 (86.60 to 87.60): VN





#3

Chloromethane

Concen: 45.98 ug/l

RT: 2.06 min Scan# 146

Delta R.T. 0.00 min

Lab File: VN049776.D

Acq: 12 Jul 2018 17:31

Instrument :

MSVOA_N

ClientSampleId :

VSTDCCC050

Tot Ion: 50 Resp: 680391

Ion Ratio Lower Upper

50 100

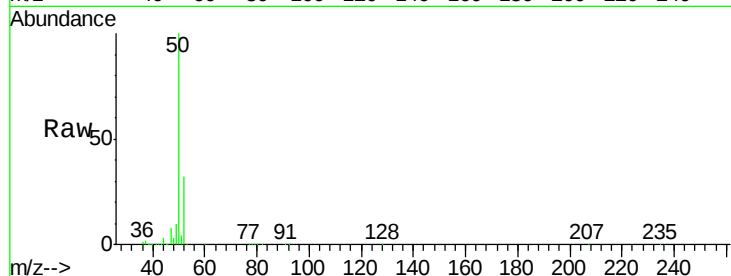
52 32.4 26.1 39.1

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Abundance Ion 49.90 (49.60 to 50.60): VN049776.D (-133) (-)

Ion 51.90 (51.60 to 52.60): VN049776.D (-133) (-)

2.06

600000

500000

400000

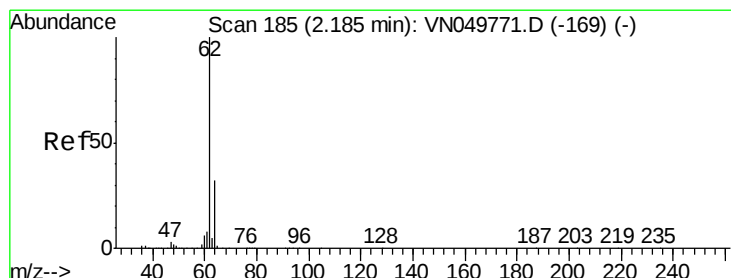
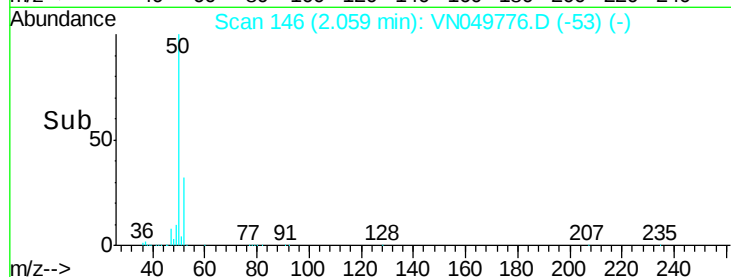
300000

200000

100000

0

Time-->



#4

Vinyl Chloride

Concen: 47.07 ug/l

RT: 2.18 min Scan# 184

Delta R.T. -0.00 min

Lab File: VN049776.D

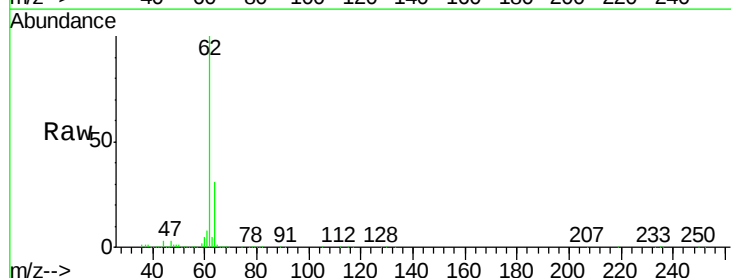
Acq: 12 Jul 2018 17:31

Tgt Ion: 62 Resp: 769378

Ion Ratio Lower Upper

62 100

64 31.0 25.4 38.0



Abundance Ion 61.90 (61.60 to 62.60): VN049776.D (-169) (-)

Ion 63.90 (63.60 to 64.60): VN049776.D (-169) (-)

2.18

600000

500000

400000

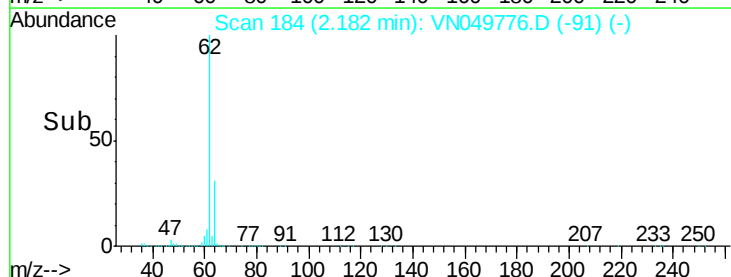
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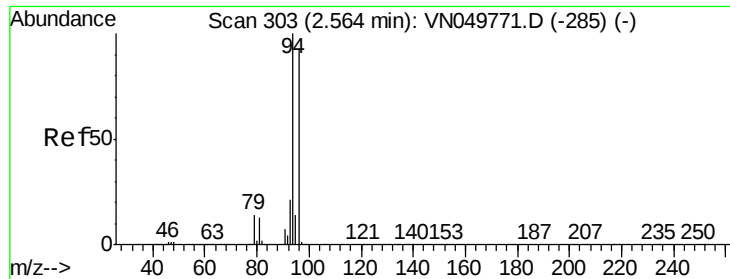
200000

100000

0

Time-->





#5

Bromomethane

Concen: 47.40 ug/l

RT: 2.56 min Scan# 303

Delta R.T. 0.00 min

Lab File: VN049776.D

Acq: 12 Jul 2018 17:31

Instrument :

MSVOA_N

ClientSampleId :

VSTDCCC050

Tot Ion: 94 Resp: 480466

Ion Ratio Lower Upper

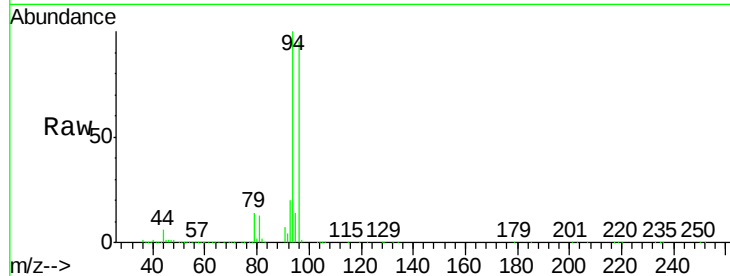
94 100

96 94.5 75.7 113.5

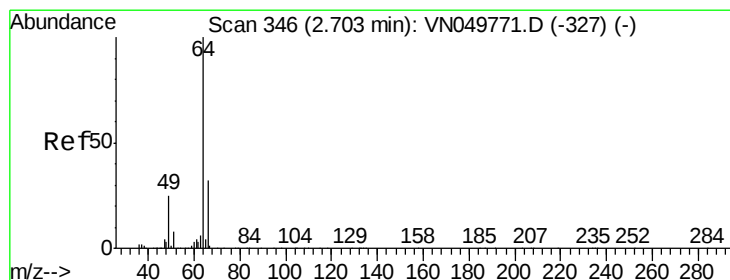
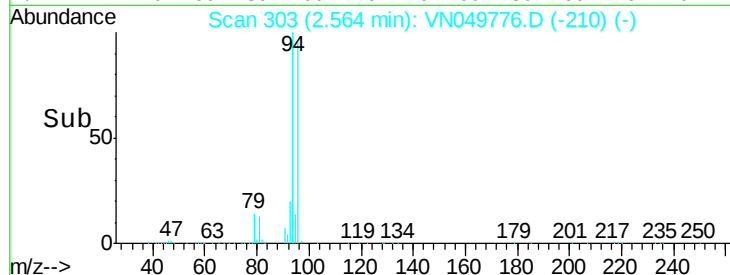
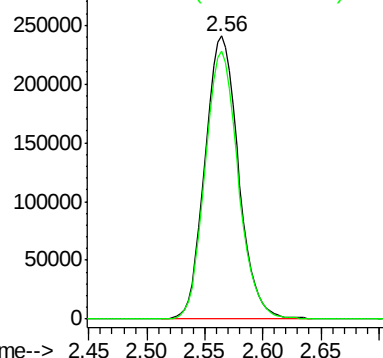
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Abundance Ion 93.90 (93.60 to 94.60): VNO
Ion 95.90 (95.60 to 96.60): VNO



#6

Chloroethane

Concen: 43.38 ug/l

RT: 2.70 min Scan# 346

Delta R.T. 0.00 min

Lab File: VN049776.D

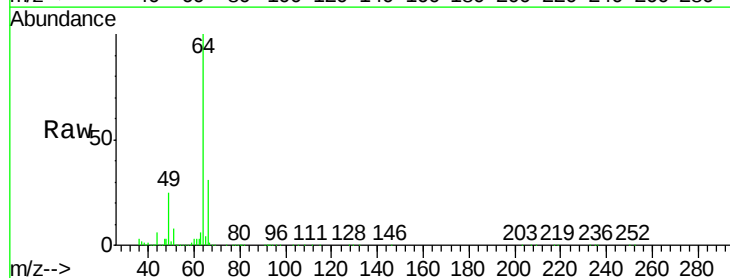
Acq: 12 Jul 2018 17:31

Tgt Ion: 64 Resp: 496844

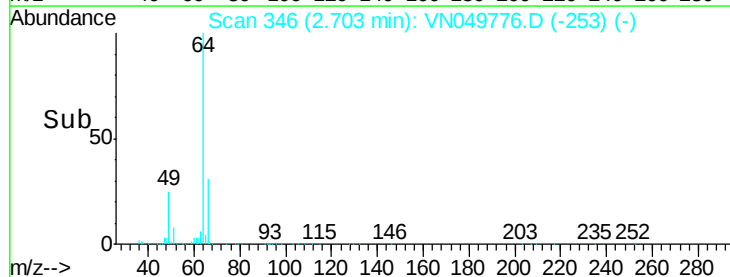
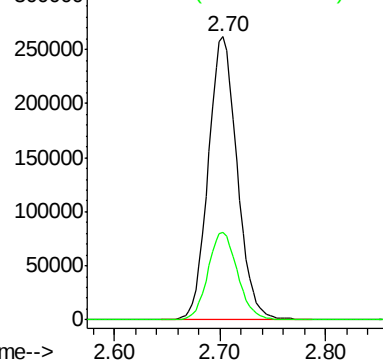
Ion Ratio Lower Upper

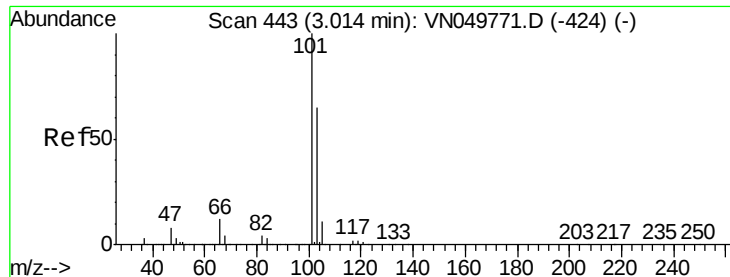
64 100

66 30.8 25.6 38.4



Abundance Ion 63.90 (63.60 to 64.60): VNO
Ion 65.90 (65.60 to 66.60): VNO





#7

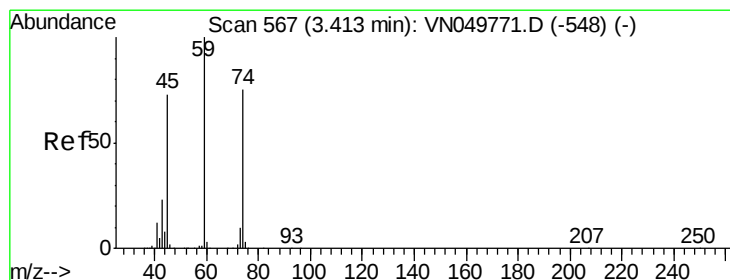
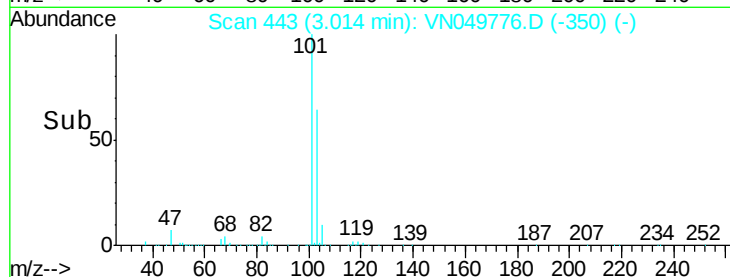
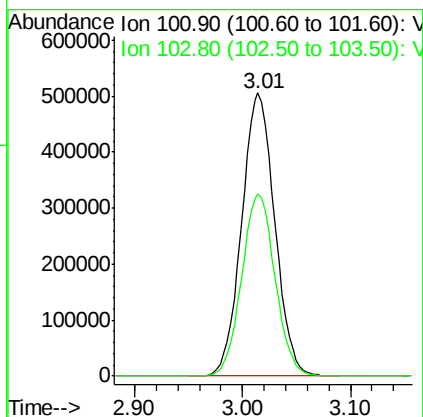
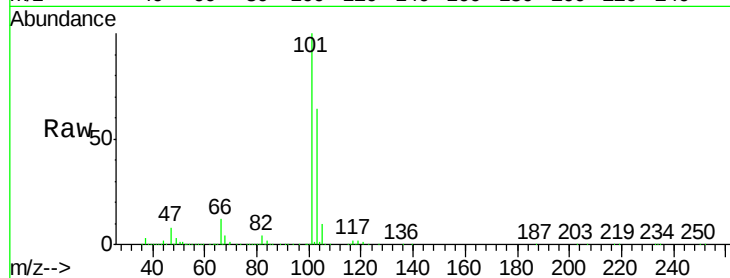
Trichlorofluoromethane
 Concen: 44.10 ug/l
 RT: 3.01 min Scan# 443
 Delta R.T. 0.00 min
 Lab File: VN049776.D
 Acq: 12 Jul 2018 17:31

Instrument :
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 VSTDCCC050

Tot Ion:101 Resp: 1076686
 Ion Ratio Lower Upper
 101 100
 103 64.3 52.8 79.2

Manual Integrations
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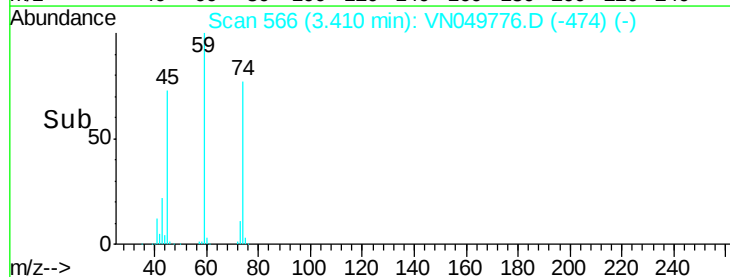
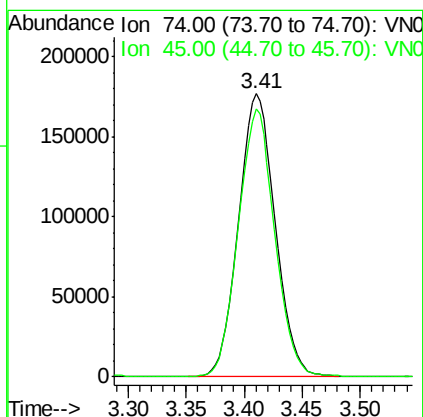
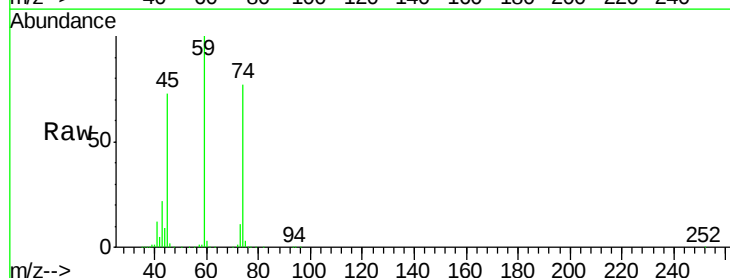
MMDadoda
 7/13/2018 1:35:15 PM

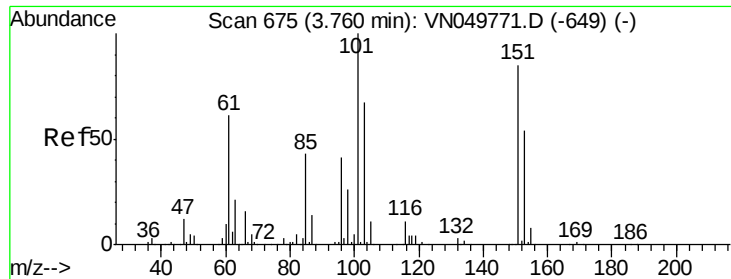


#8

Diethyl Ether
 Concen: 44.49 ug/l
 RT: 3.41 min Scan# 566
 Delta R.T. -0.00 min
 Lab File: VN049776.D
 Acq: 12 Jul 2018 17:31

Tgt Ion: 74 Resp: 389230
 Ion Ratio Lower Upper
 74 100
 45 93.7 48.4 145.2





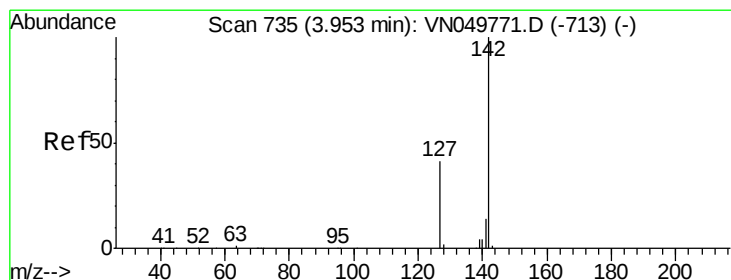
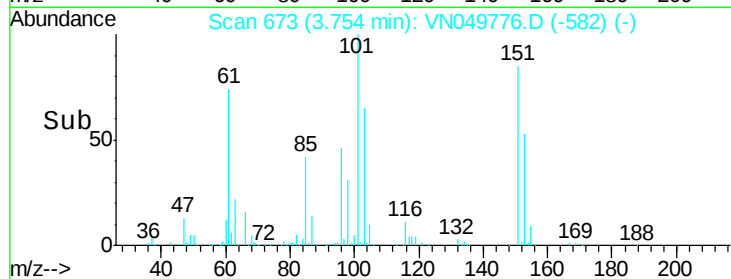
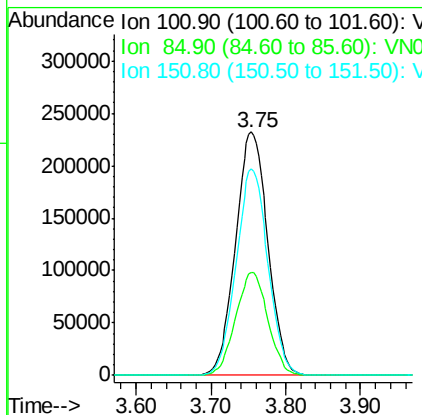
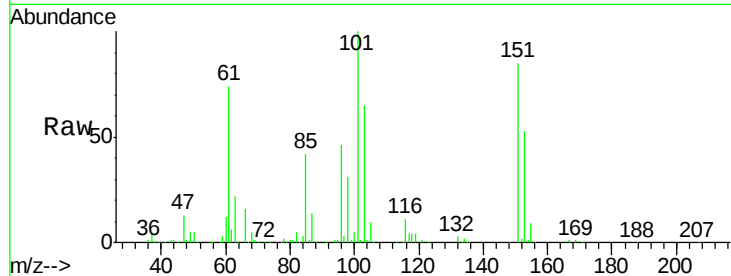
#9
 1,1,2-Trichlorotrifluoroethane
 Concen: 43.90 ug/l
 RT: 3.75 min Scan# 673
 Delta R.T. -0.01 min
 Lab File: VN049776.D
 Acq: 12 Jul 2018 17:31

Instrument :
 MSVOA_N
 ClientSampleId :
 VSTDCCC050

Tot Ion	Ratio	Resp	Lower	Upper
101	100	695685		
85	42.1	34.4	51.6	
151	83.7	66.2	99.4	

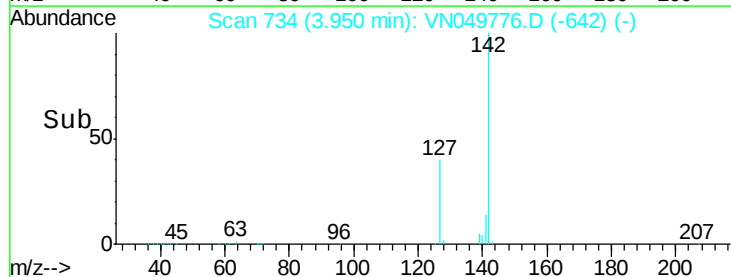
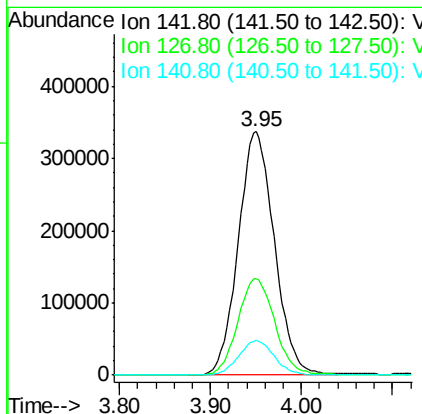
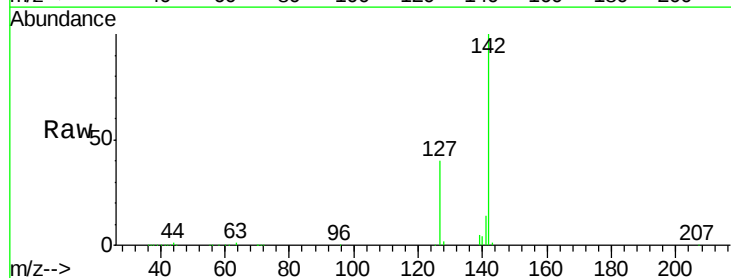
Manual Integrations
 APPROVED

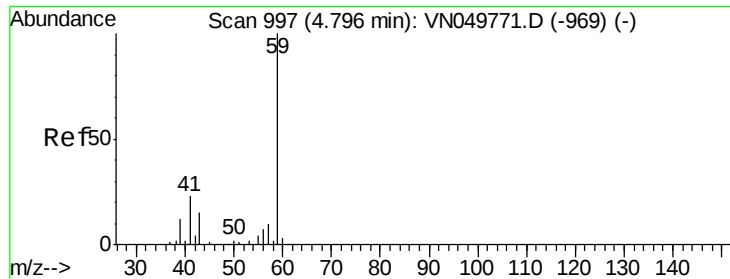
MMDadoda
 7/13/2018 1:35:15 PM



#10
 Methyl Iodide
 Concen: 46.11 ug/l
 RT: 3.95 min Scan# 734
 Delta R.T. -0.00 min
 Lab File: VN049776.D
 Acq: 12 Jul 2018 17:31

Tgt Ion	Ratio	Resp	Lower	Upper
142	100	928590		
127	40.5	32.5	48.7	
141	14.1	11.1	16.7	





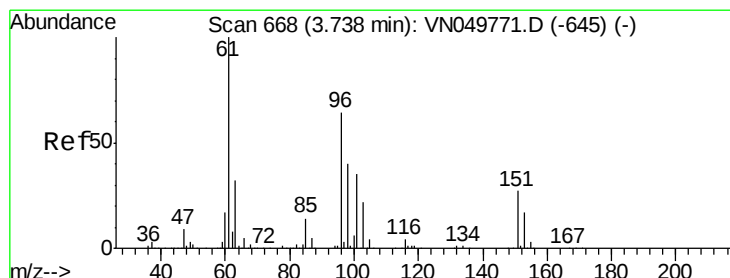
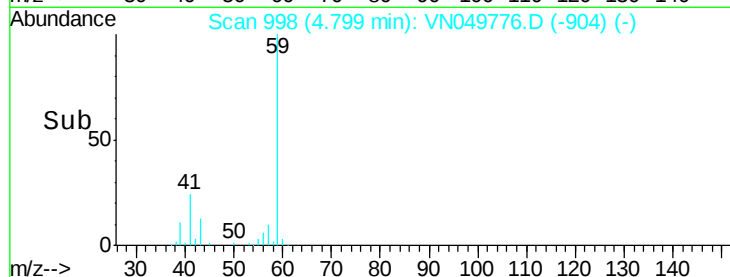
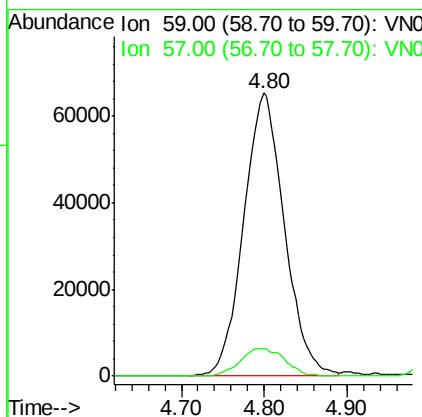
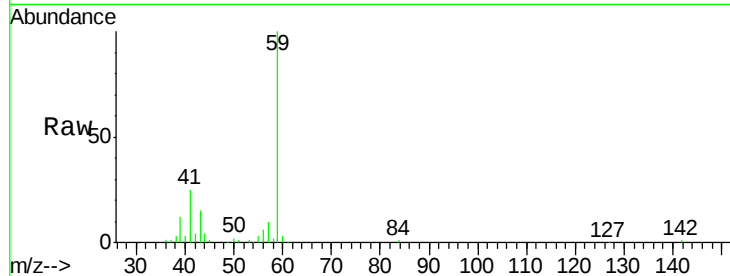
#11
Tert butyl alcohol
Concen: 221.77 ug/l
RT: 4.80 min Scan# 998
Delta R.T. 0.00 min
Lab File: VN049776.D
Acq: 12 Jul 2018 17:31

Instrument :
MSVOA_N
ClientSampleId :
VSTDCCC050

Tot Ion	Ratio	Lower	Upper
59	100		
57	10.9	8.5	12.7

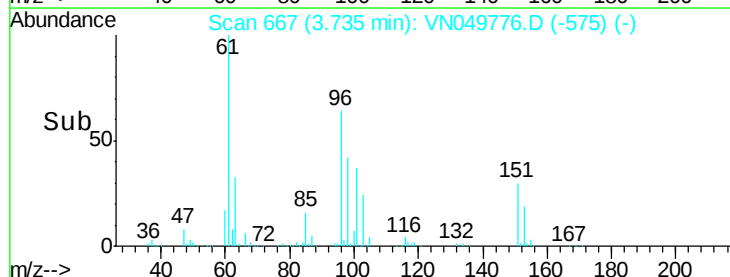
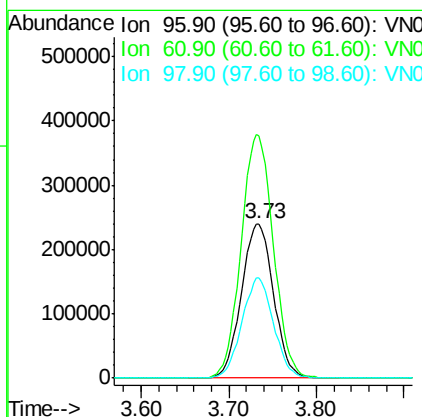
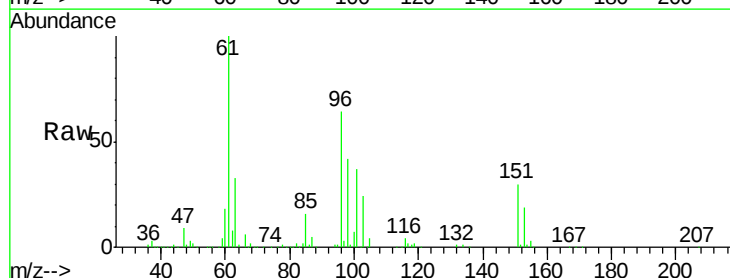
Manual Integrations
APPROVED

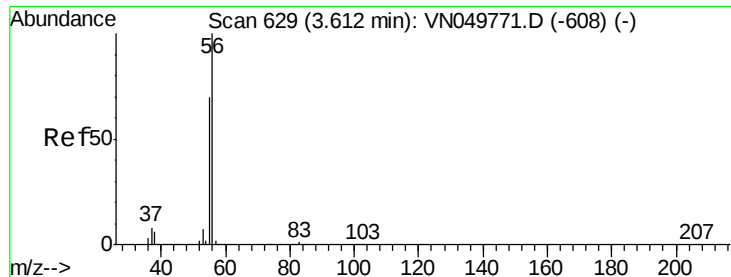
MMDadoda
7/13/2018 1:35:15 PM



#12
1,1-Dichloroethene
Concen: 43.82 ug/l
RT: 3.73 min Scan# 667
Delta R.T. -0.00 min
Lab File: VN049776.D
Acq: 12 Jul 2018 17:31

Tgt Ion	Ratio	Lower	Upper
96	100		
61	156.7	126.5	189.7
98	65.4	51.0	76.6





#13

Acrolein

Concen: 194.27 ug/l

RT: 3.61 min Scan# 627

Delta R.T. -0.01 min

Lab File: VN049776.D

Acq: 12 Jul 2018 17:31

Instrument :

MSVOA_N

ClientSampleId :

VSTDCCC050

Tot Ion: 56 Resp: 171054

Ion Ratio Lower Upper

56 100

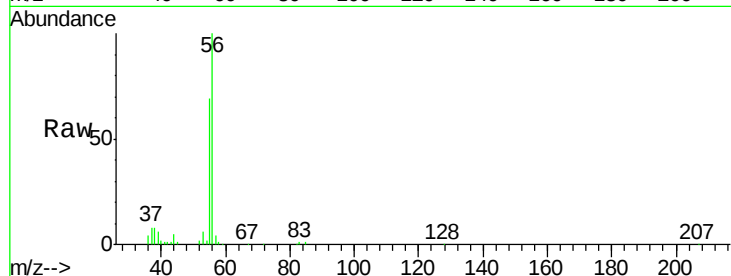
55 71.5 55.8 83.8

Manual Integrations

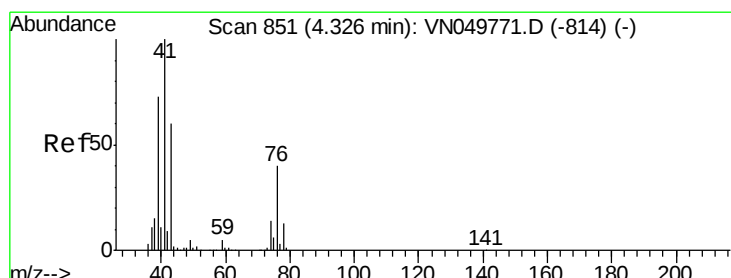
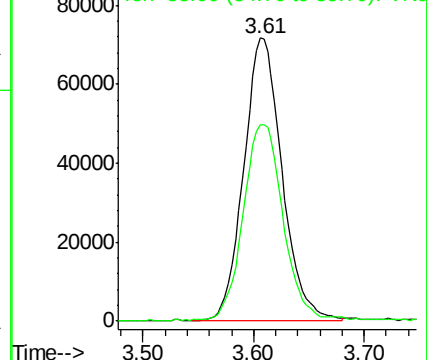
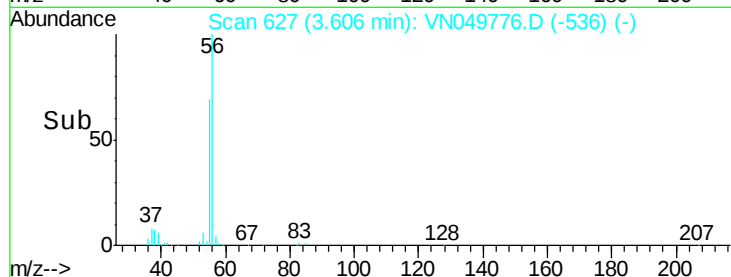
APPROVED

MMDadoda

7/13/2018 1:35:15 PM



Abundance Ion 56.00 (55.70 to 56.70): VN049776.D (-536) (-)



#14

Allyl chloride

Concen: 44.74 ug/l

RT: 4.32 min Scan# 849

Delta R.T. -0.01 min

Lab File: VN049776.D

Acq: 12 Jul 2018 17:31

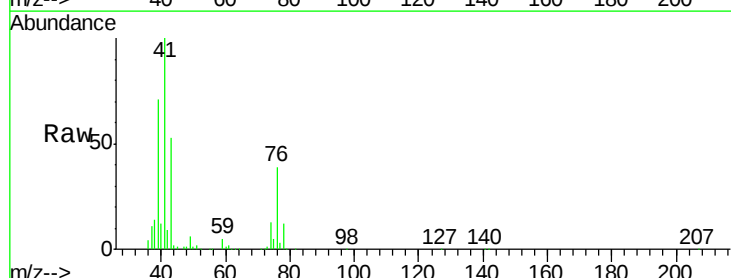
Tgt Ion: 41 Resp: 1016559

Ion Ratio Lower Upper

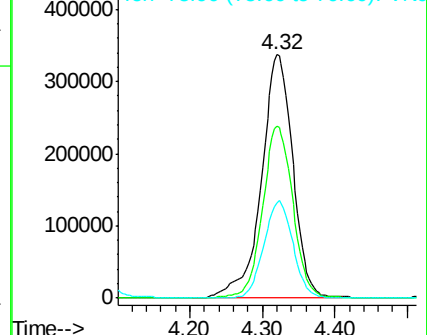
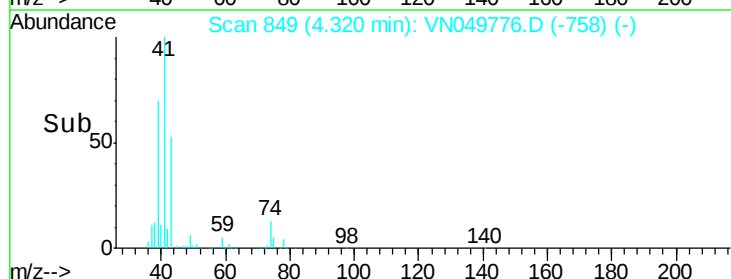
41 100

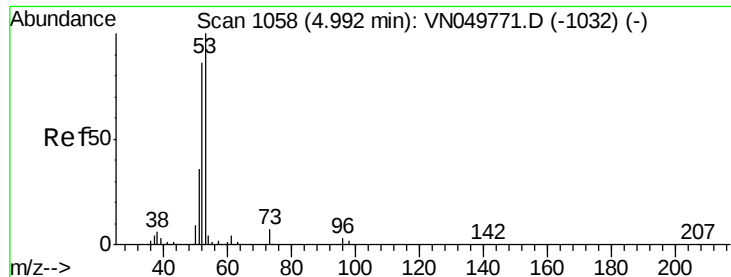
39 67.9 53.2 79.8

76 36.7 29.0 43.6



Abundance Ion 41.00 (40.70 to 41.70): VN049776.D (-758) (-)





#15

Acrylonitrile

Concen: 221.08 ug/l

RT: 4.99 min Scan# 1058

Delta R.T. 0.00 min

Lab File: VN049776.D

Acq: 12 Jul 2018 17:31

Instrument :

MSVOA_N

ClientSampleId :

VSTDCCC050

Tot Ion: 53 Resp: 1109875

Ion Ratio Lower Upper

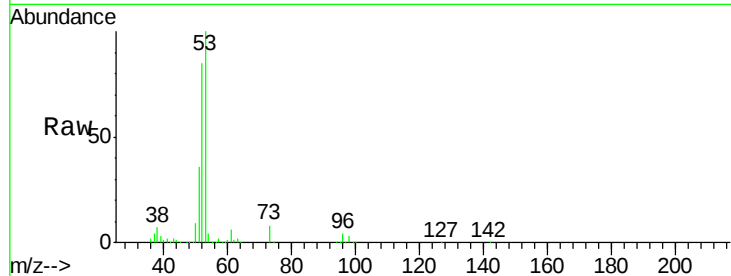
53 100

52 82.6 64.8 97.2

51 35.8 28.9 43.3

Manual Integrations
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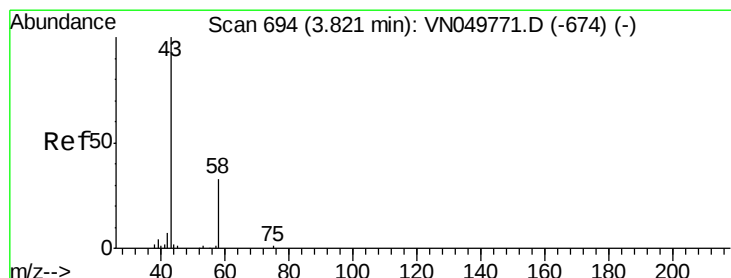
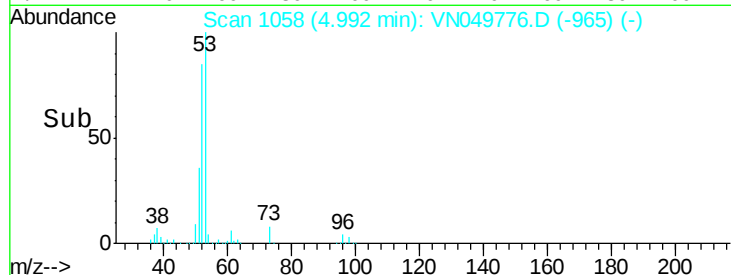
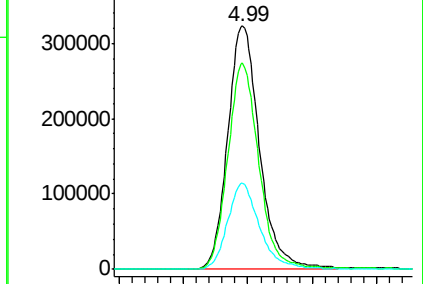
MMDadoda
7/13/2018 1:35:15 PM



Abundance Ion 53.00 (52.70 to 53.70): VN049771.D (-1032) (-)

Ion 52.00 (51.70 to 52.70): VN049771.D (-1032) (-)

Ion 51.00 (50.70 to 51.70): VN049771.D (-1032) (-)



#16

Acetone

Concen: 237.26 ug/l

RT: 3.82 min Scan# 694

Delta R.T. 0.00 min

Lab File: VN049776.D

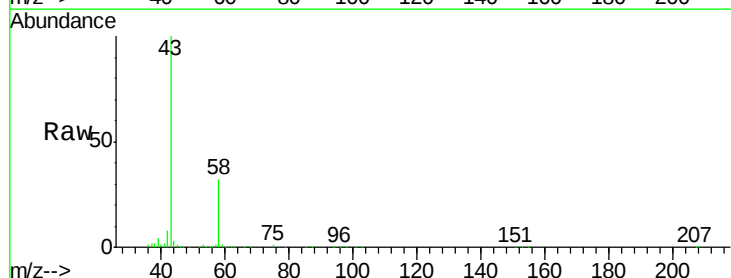
Acq: 12 Jul 2018 17:31

Tgt Ion: 43 Resp: 874979

Ion Ratio Lower Upper

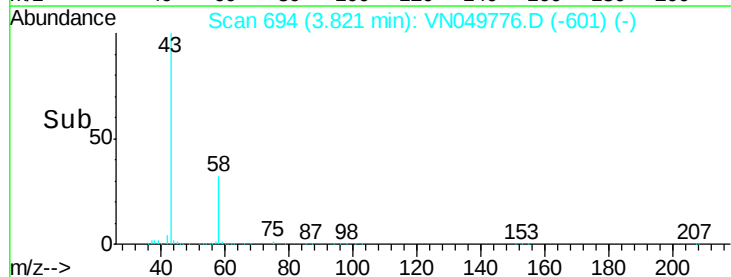
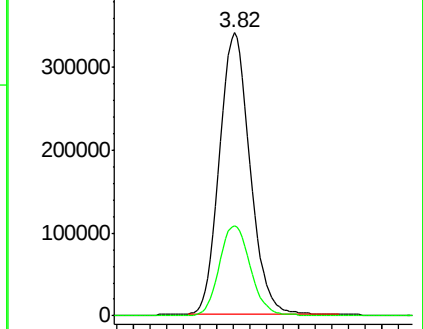
43 100

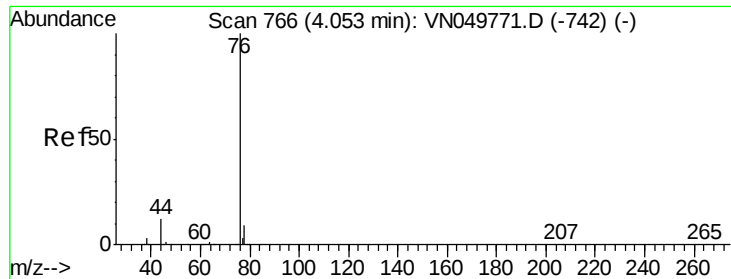
58 31.9 25.9 38.9



Abundance Ion 43.00 (42.70 to 43.70): VN049771.D (-674) (-)

Ion 58.00 (57.70 to 58.70): VN049771.D (-674) (-)





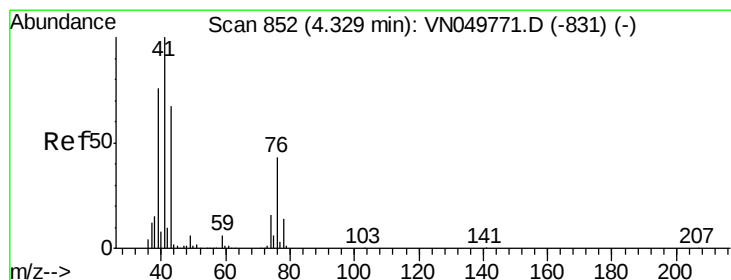
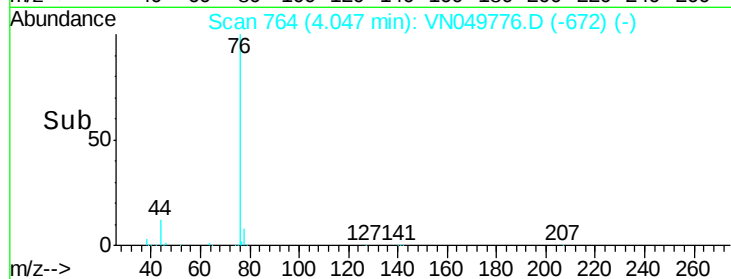
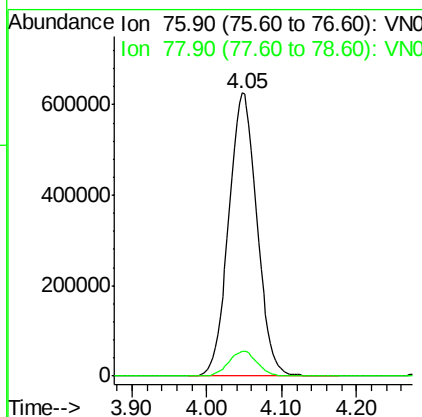
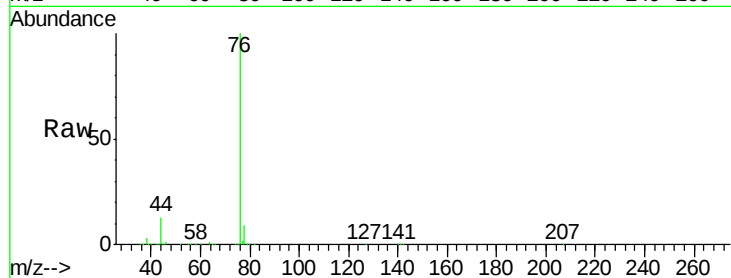
#17
Carbon Disulfide
Concen: 45.97 ug/l
RT: 4.05 min Scan# 764
Delta R.T. -0.01 min
Lab File: VN049776.D
Acq: 12 Jul 2018 17:31

Instrument :
MSVOA_N
ClientSampleId :
VSTDCCC050

Tot Ion: 76 Resp: 1640726
Ion Ratio Lower Upper
76 100
78 8.9 7.1 10.7

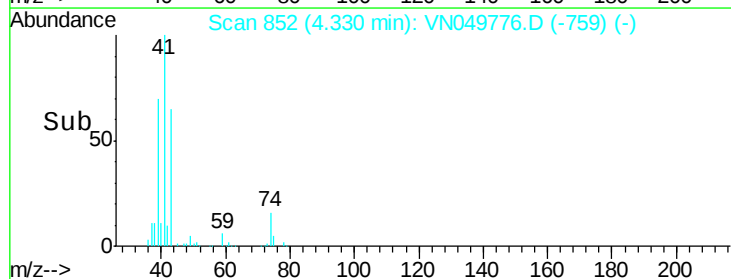
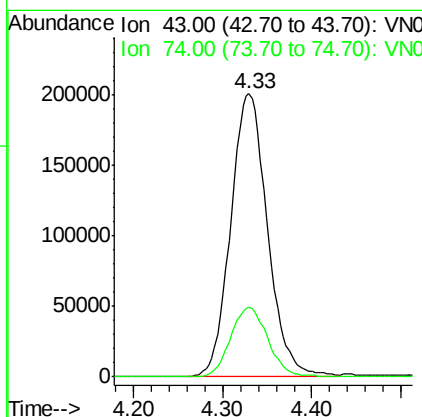
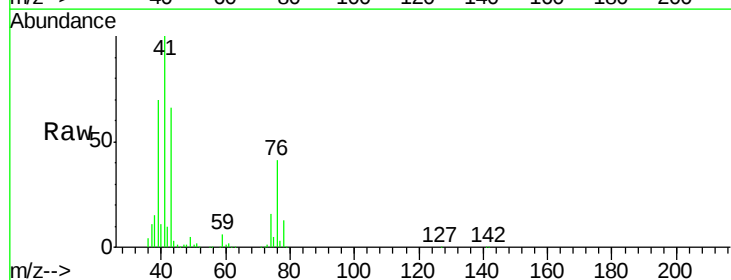
Manual Integrations
APPROVED

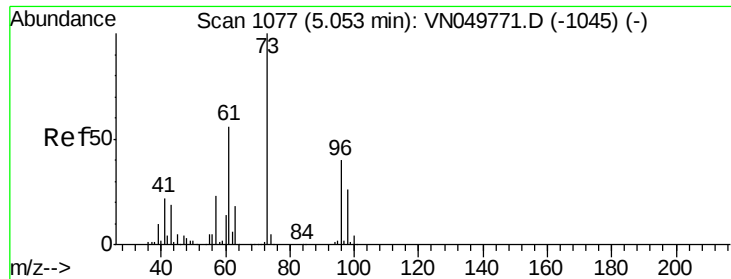
MMDadoda
7/13/2018 1:35:15 PM



#18
Methyl Acetate
Concen: 45.76 ug/l
RT: 4.33 min Scan# 852
Delta R.T. 0.00 min
Lab File: VN049776.D
Acq: 12 Jul 2018 17:31

Tgt Ion: 43 Resp: 573163
Ion Ratio Lower Upper
43 100
74 25.1 19.8 29.8





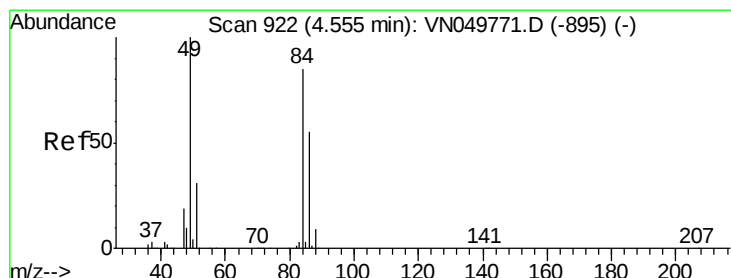
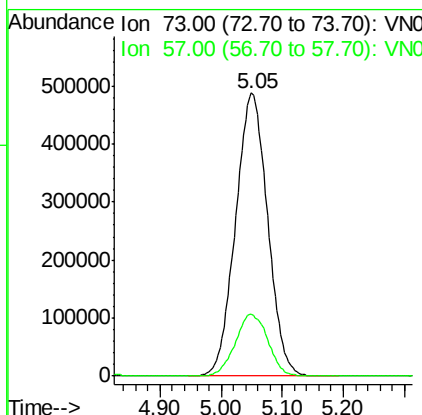
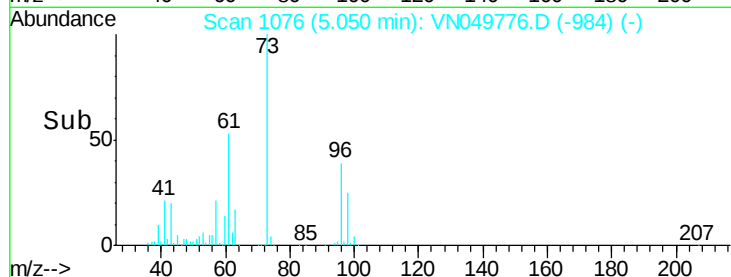
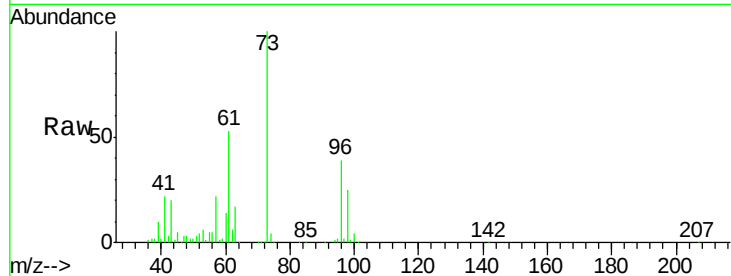
#19
Methvl tert-butvl Ether
Concen: 46.04 ug/l
RT: 5.05 min Scan# 1076
Delta R.T. -0.00 min
Lab File: VN049776.D
Acq: 12 Jul 2018 17:31

Instrument :
MSVOA_N
ClientSampleId :
VSTDCCC050

Tot Ion: 73 Resp: 1778169
Ion Ratio Lower Upper
73 100
57 21.7 18.1 27.1

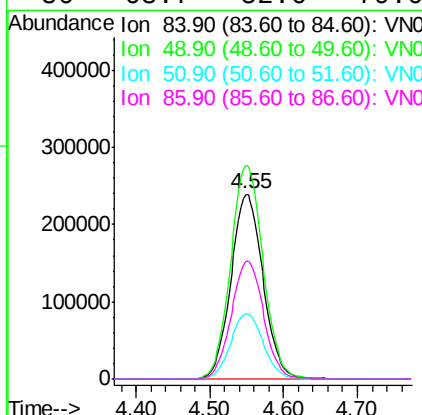
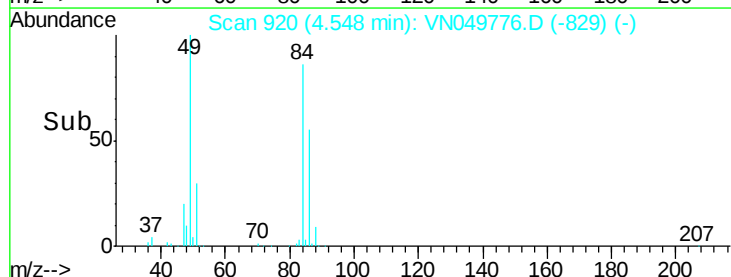
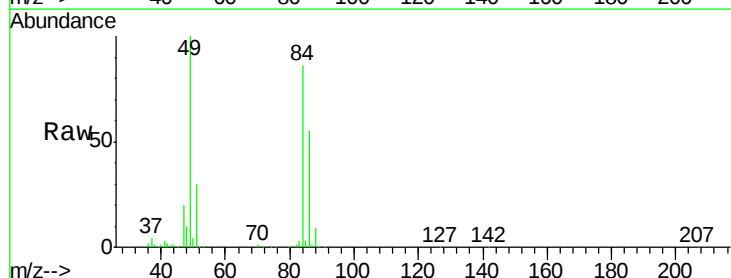
Manual Integrations
APPROVED

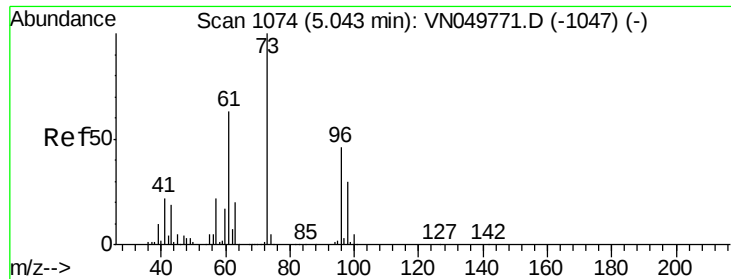
MMDadoda
7/13/2018 1:35:15 PM



#20
Methylene Chloride
Concen: 47.11 ug/l
RT: 4.55 min Scan# 920
Delta R.T. -0.01 min
Lab File: VN049776.D
Acq: 12 Jul 2018 17:31

Tgt Ion: 84 Resp: 724652
Ion Ratio Lower Upper
84 100
49 115.7 95.4 143.2
51 35.1 28.4 42.6
86 63.7 52.6 79.0





#21

trans-1,2-Dichloroethene

Concen: 44.00 ug/l

RT: 5.04 min Scan# 1073

Delta R.T. -0.00 min

Lab File: VN049776.D

Acq: 12 Jul 2018 17:31

Instrument :

MSVOA_N

ClientSampleId :

VSTDCCC050

Tot Ion: 96 Resp: 669568

Ion Ratio Lower Upper

96 100

61 138.5 109.0 163.6

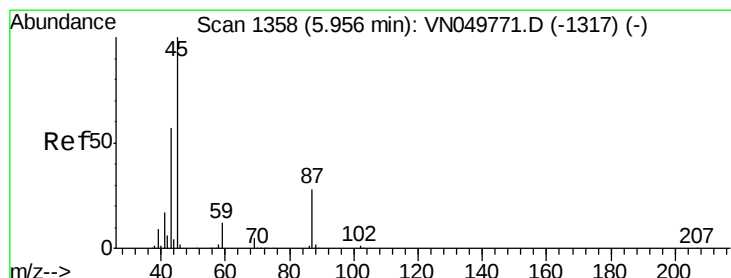
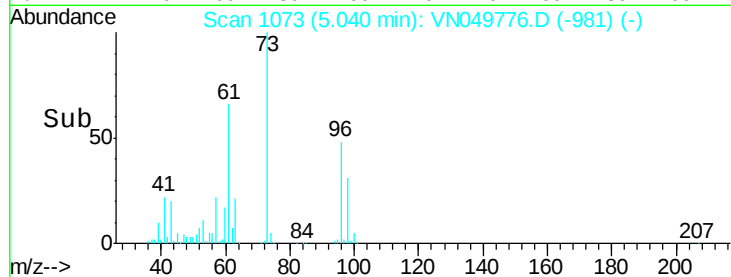
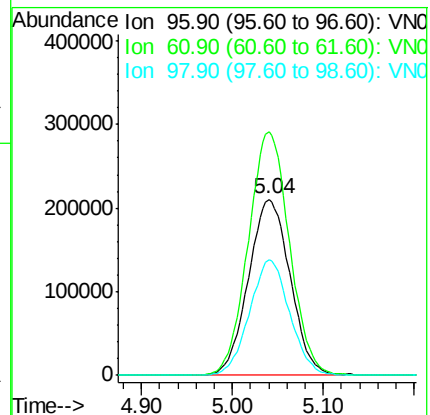
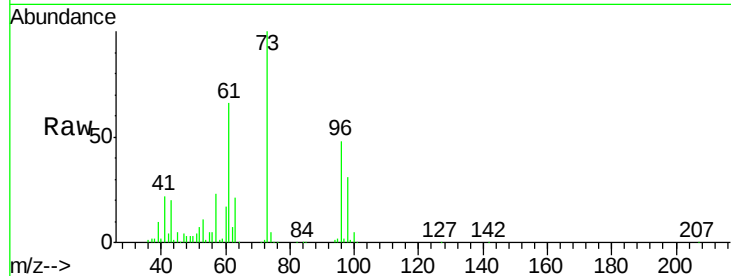
98 65.6 51.1 76.7

Manual Integrations

APPROVED

MMDadoda

7/13/2018 1:35:15 PM



#22

Diisopropyl ether

Concen: 46.91 ug/l

RT: 5.96 min Scan# 1358

Delta R.T. 0.00 min

Lab File: VN049776.D

Acq: 12 Jul 2018 17:31

Tgt Ion: 45 Resp: 2189361

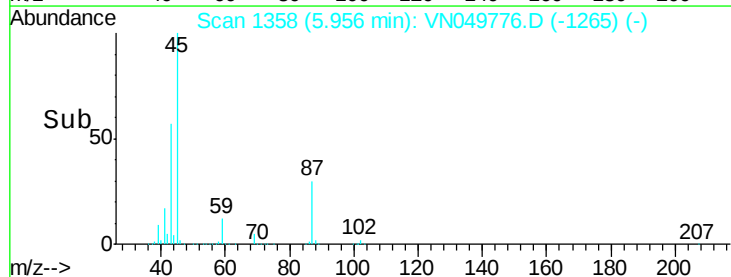
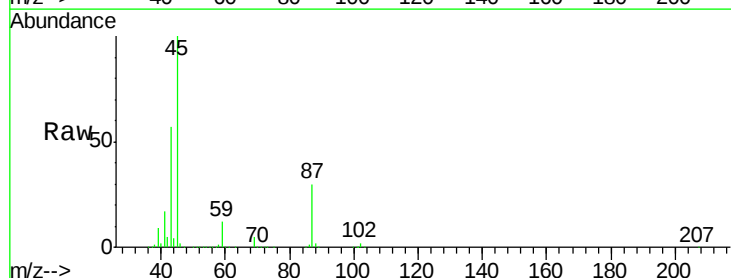
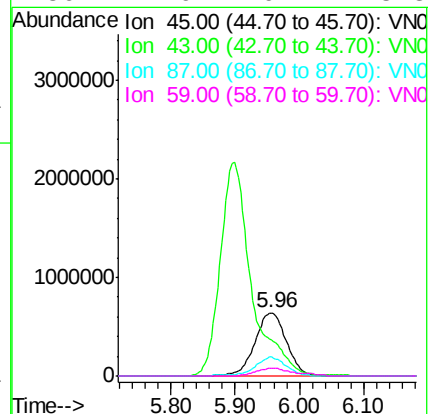
Ion Ratio Lower Upper

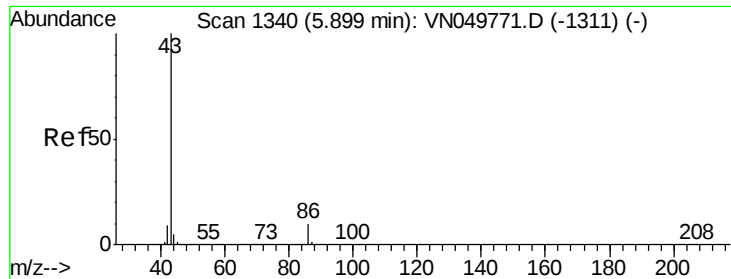
45 100

43 55.9 48.1 72.1

87 29.6 22.6 34.0

59 11.9 9.2 13.8





#23

Vinyl Acetate

Concen: 233.33 ug/l

RT: 5.90 min Scan# 1340

Delta R.T. 0.00 min

Lab File: VN049776.D

Acq: 12 Jul 2018 17:31

Instrument :

MSVOA_N

ClientSampleId :

VSTDCCC050

Tot Ion: 43 Resp: 7298331

Ion Ratio Lower Upper

43 100

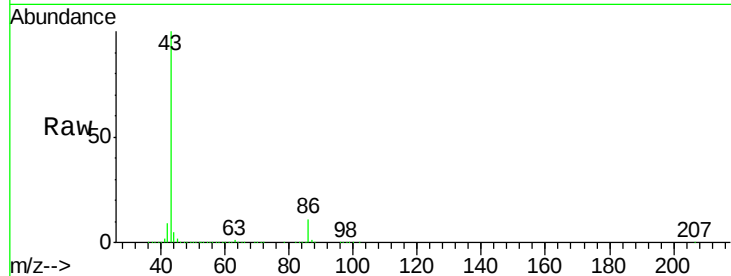
86 10.7 8.4 12.6

Manual Integrations

APPROVED

MMDadoda

7/13/2018 1:35:15 PM



Abundance Ion 43.00 (42.70 to 43.70): VN0

Ion 86.00 (85.70 to 86.70): VN0

2500000

2000000

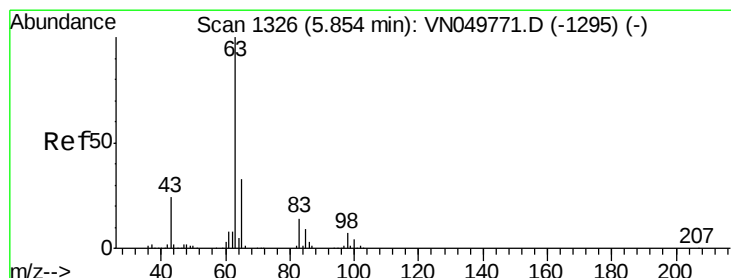
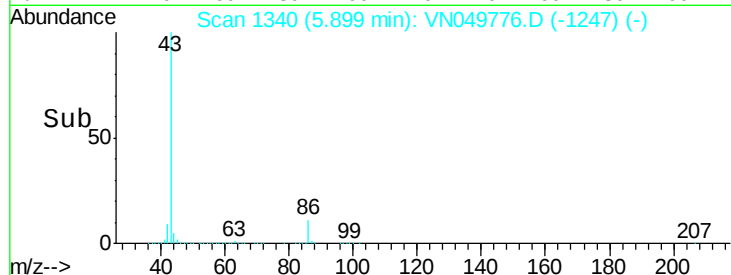
1500000

1000000

500000

0

Time--> 5.70 5.80 5.90 6.00 6.10



#24

1,1-Dichloroethane

Concen: 44.09 ug/l

RT: 5.85 min Scan# 1325

Delta R.T. -0.00 min

Lab File: VN049776.D

Acq: 12 Jul 2018 17:31

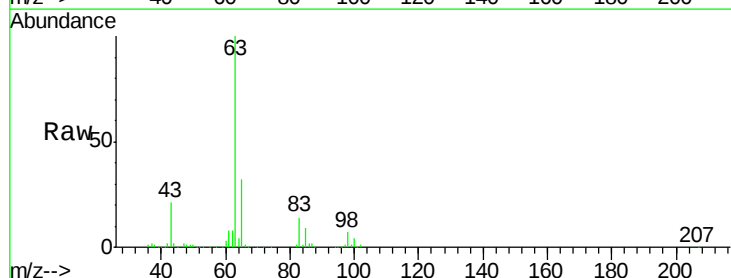
Tgt Ion: 63 Resp: 1292857

Ion Ratio Lower Upper

63 100

98 6.6 3.4 10.2

100 4.4 2.2 6.6



Abundance Ion 62.90 (62.60 to 63.60): VN0

Ion 97.90 (97.60 to 98.60): VN0

Ion 99.90 (99.60 to 100.60): VN0

500000

400000

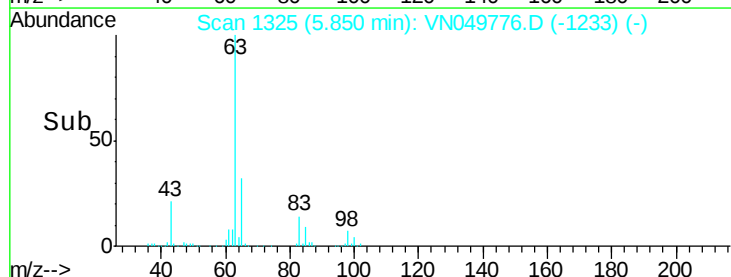
300000

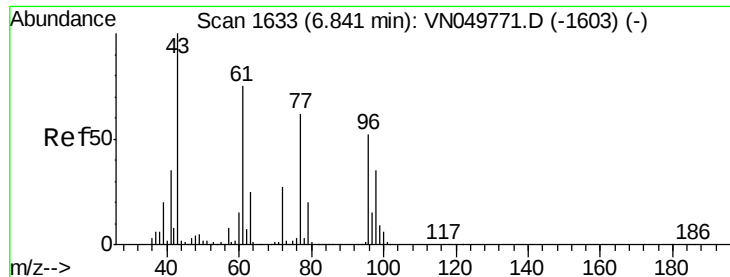
200000

100000

0

Time--> 5.70 5.80 5.90 6.00





#25

2-Butanone

Concen: 224.21 ug/l

RT: 6.84 min Scan# 1633

Delta R.T. 0.00 min

Lab File: VN049776.D

Acq: 12 Jul 2018 17:31

Instrument :

MSVOA_N

ClientSampled :

VSTDCCC050

Tot Ion: 43 Resp: 1308649

Ion Ratio Lower Upper

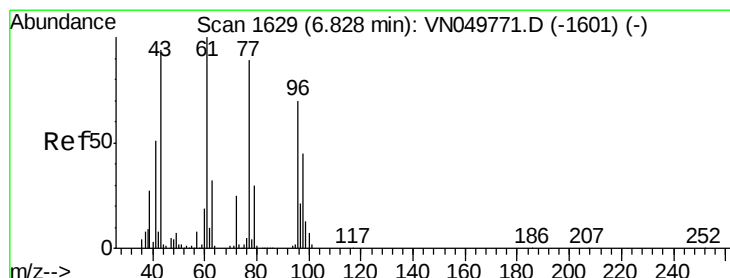
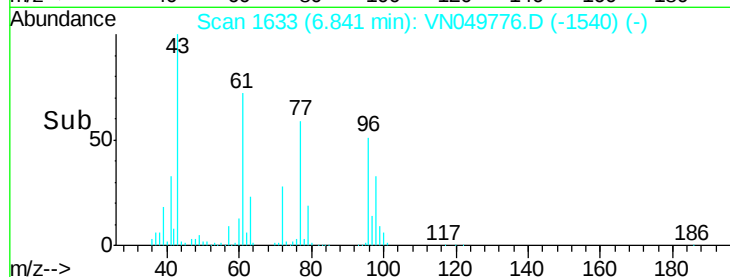
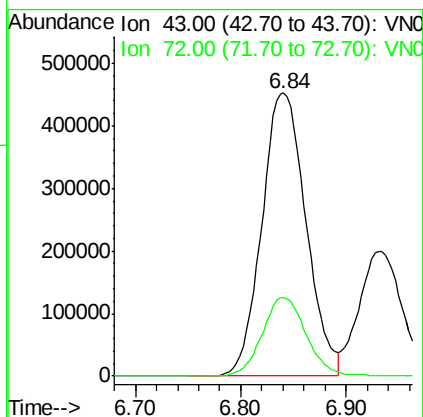
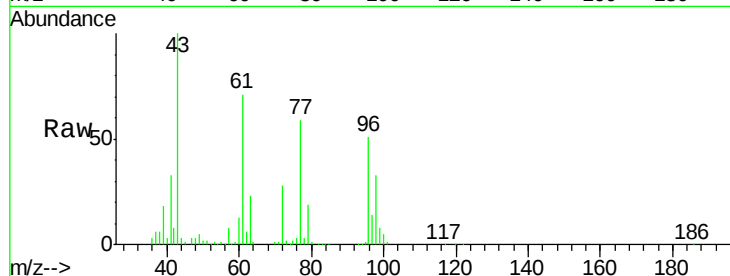
43 100

72 28.0 22.1 33.1

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MMDadoda

7/13/2018 1:35:15 PM



#26

2,2-Dichloropropane

Concen: 46.20 ug/l

RT: 6.82 min Scan# 1628

Delta R.T. -0.00 min

Lab File: VN049776.D

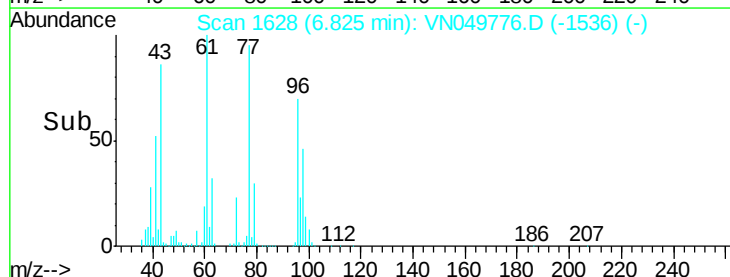
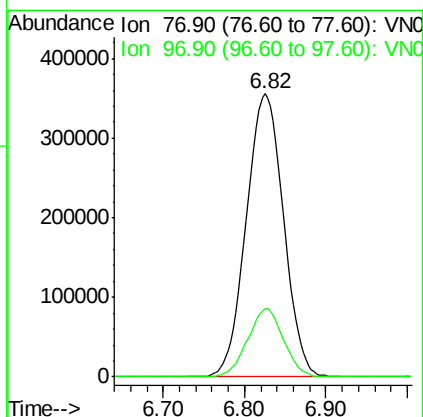
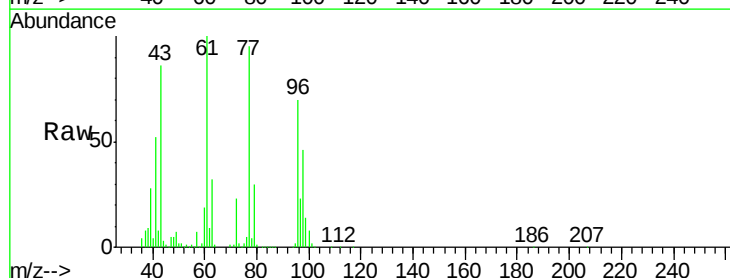
Acq: 12 Jul 2018 17:31

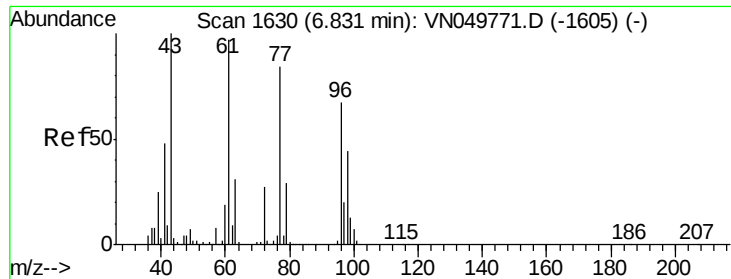
Tgt Ion: 77 Resp: 1124468

Ion Ratio Lower Upper

77 100

97 23.2 11.9 35.5





#27

cis-1,2-Dichloroethene

Concen: 45.02 ug/l

RT: 6.83 min Scan# 1630

Delta R.T. 0.00 min

Lab File: VN049776.D

Acq: 12 Jul 2018 17:31

Instrument :

MSVOA_N

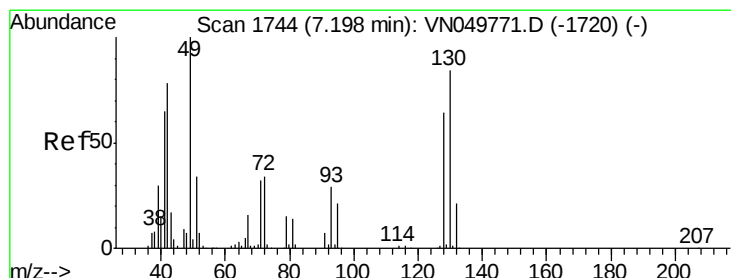
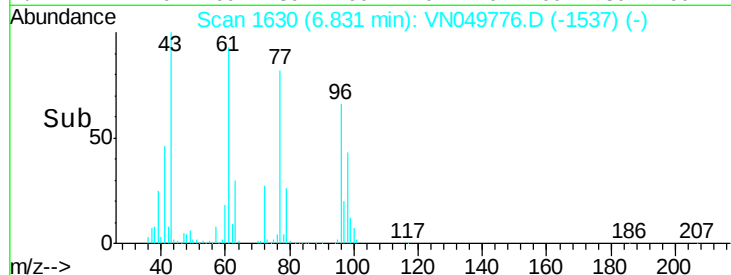
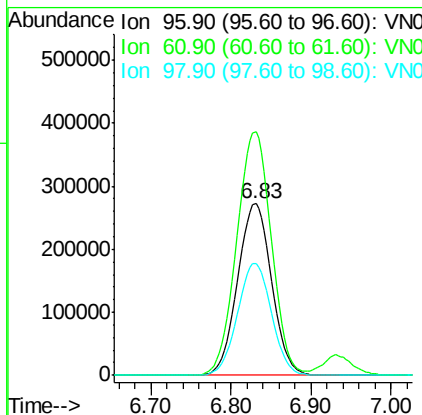
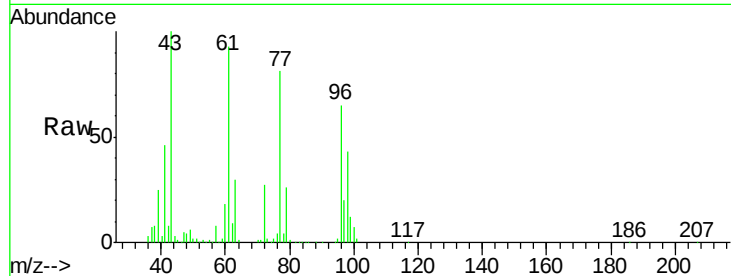
ClientSampleId :

VSTDCCC050

Tot Ion:	96	Resp:	783573
Ion	Ratio	Lower	Upper
96	100		
61	144.4	0.0	289.0
98	65.2	0.0	130.2

Manual Integrations
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#28

Bromochloromethane

Concen: 46.25 ug/l

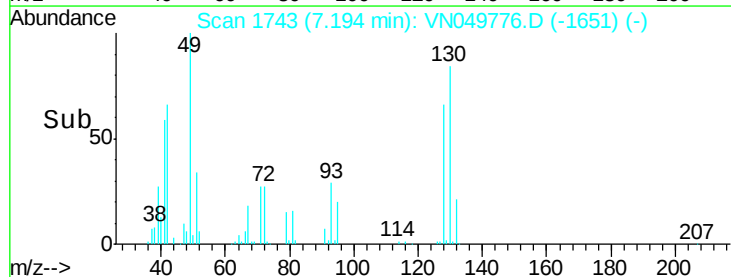
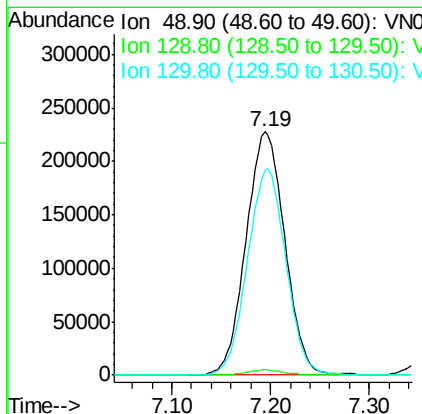
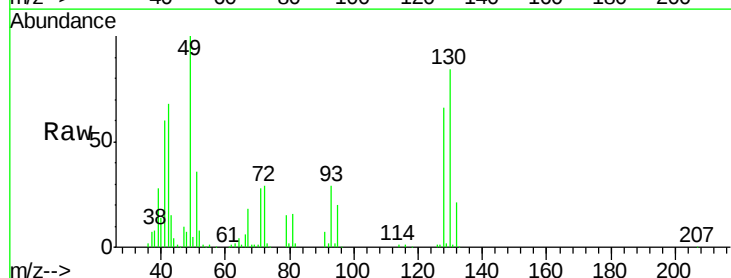
RT: 7.19 min Scan# 1743

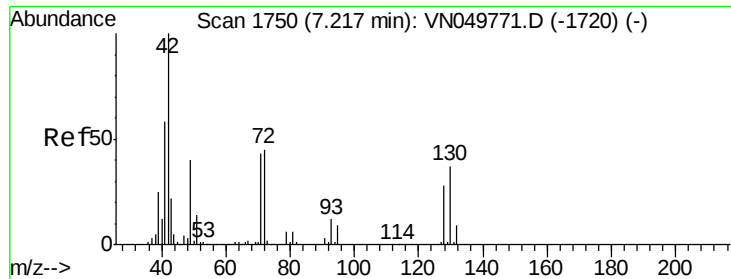
Delta R.T. -0.00 min

Lab File: VN049776.D

Acq: 12 Jul 2018 17:31

Tgt Ion:	49	Resp:	616800
Ion	Ratio	Lower	Upper
49	100		
129	2.1	0.0	4.2
130	84.3	65.5	98.3





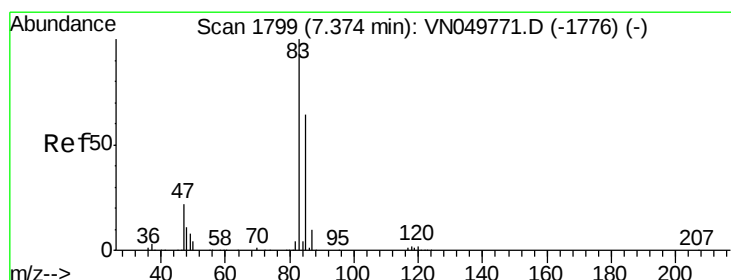
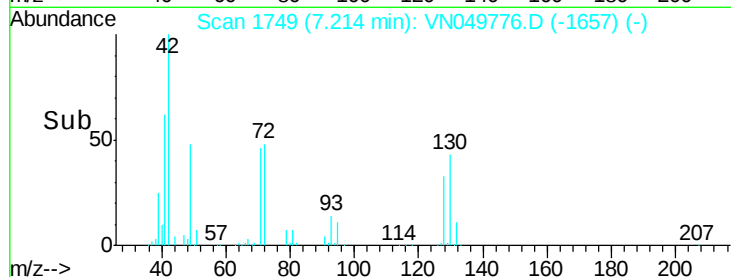
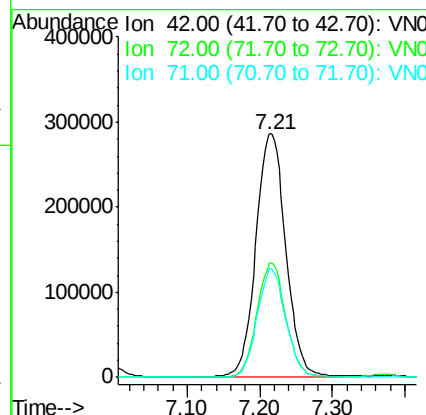
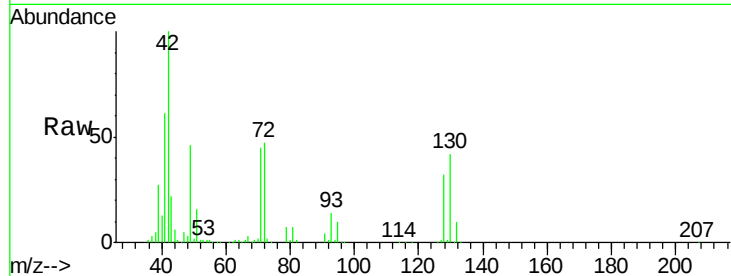
#29
Tetrahydrofuran
Concen: 223.97 ug/l
RT: 7.21 min Scan# 1749
Delta R.T. -0.00 min
Lab File: VN049776.D
Acq: 12 Jul 2018 17:31

Instrument :
MSVOA_N
ClientSampleId :
VSTDCCC050

Tot Ion	Ratio	Lower	Upper
42	100		
72	45.1	35.6	53.4
71	42.7	34.0	51.0

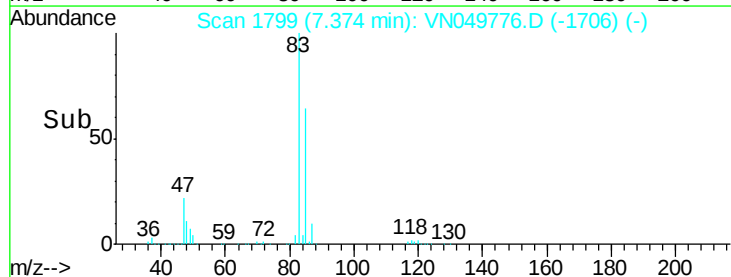
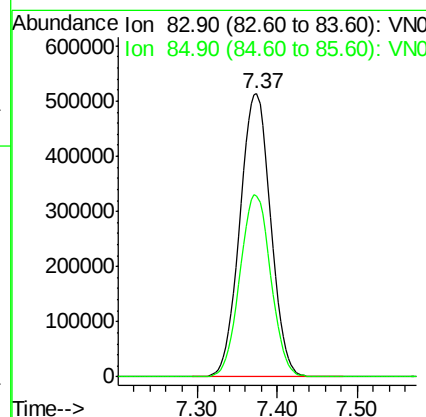
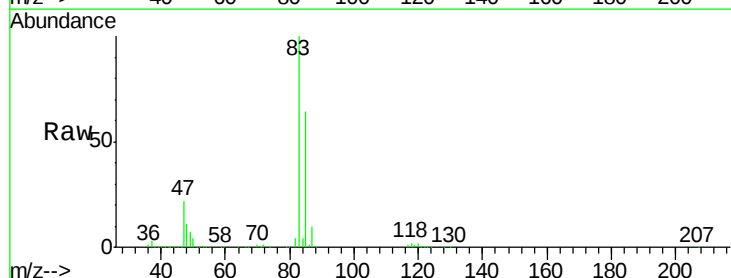
Manual Integrations
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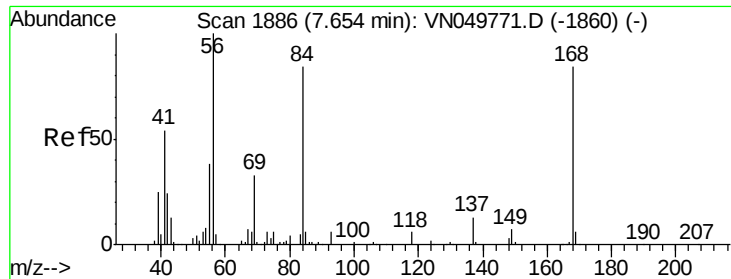
MMDadoda
7/13/2018 1:35:15 PM



#30
Chloroform
Concen: 44.14 ug/l
RT: 7.37 min Scan# 1799
Delta R.T. 0.00 min
Lab File: VN049776.D
Acq: 12 Jul 2018 17:31

Tgt Ion	Ratio	Lower	Upper
83	100		
85	63.9	51.4	77.2





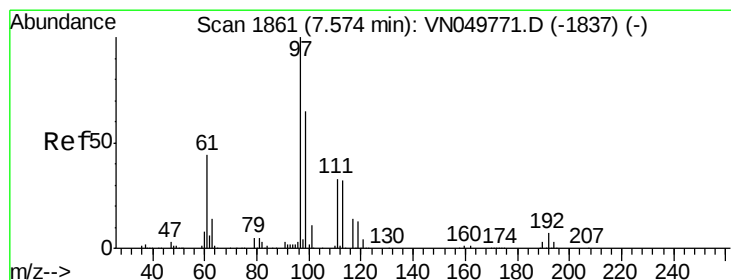
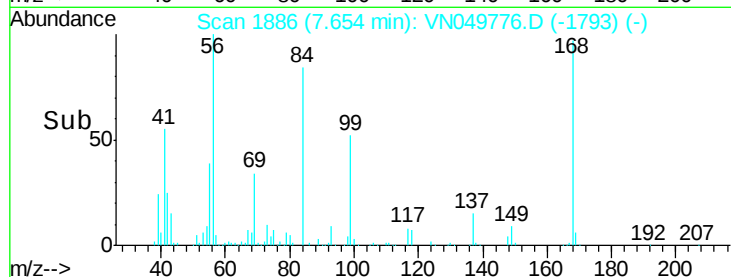
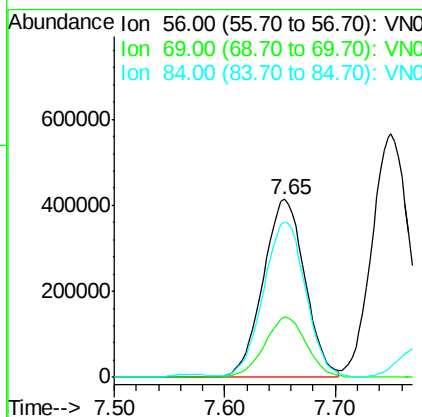
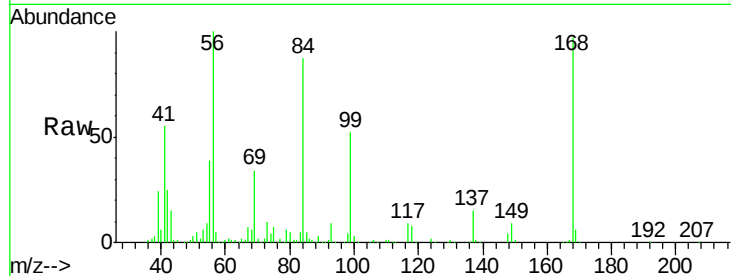
#31
Cyclohexane
Concen: 46.60 ug/l
RT: 7.65 min Scan# 1886
Delta R.T. 0.00 min
Lab File: VN049776.D
Acq: 12 Jul 2018 17:31

Instrument :
MSVOA_N
ClientSampled :
VSTDCCC050

Tot Ion: 56 Resp: 1087926
Ion Ratio Lower Upper
56 100
69 33.7 26.6 40.0
84 85.8 69.0 103.6

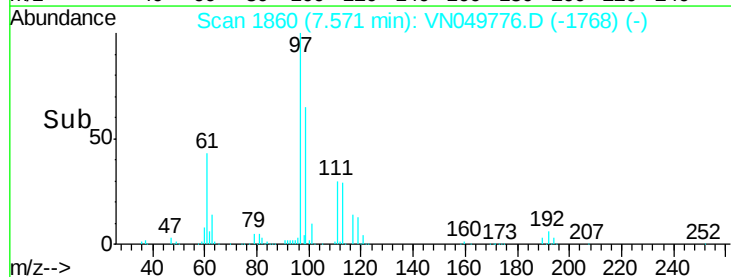
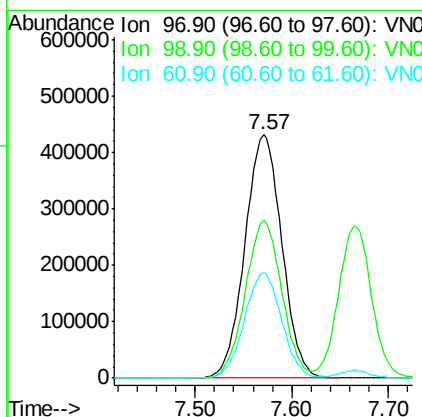
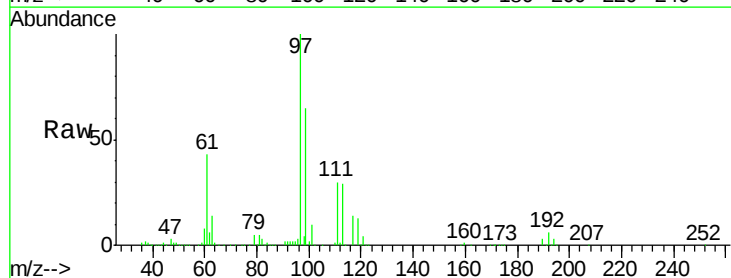
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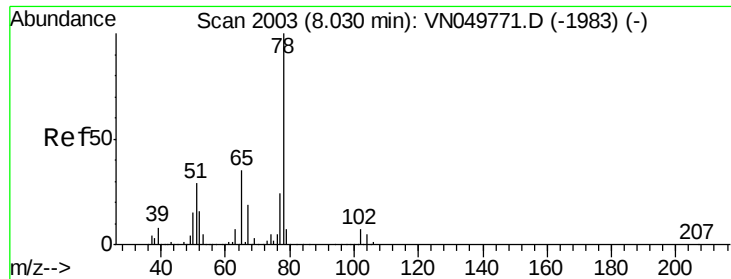
MMDadoda
7/13/2018 1:35:15 PM



#32
1,1,1-Trichloroethane
Concen: 44.67 ug/l
RT: 7.57 min Scan# 1860
Delta R.T. -0.00 min
Lab File: VN049776.D
Acq: 12 Jul 2018 17:31

Tgt Ion: 97 Resp: 1146134
Ion Ratio Lower Upper
97 100
99 63.7 51.0 76.4
61 43.6 35.5 53.3





#33

1,2-Dichloroethane-d4

Concen: 46.34 ug/l

RT: 8.03 min Scan# 2002

Delta R.T. -0.00 min

Lab File: VN049776.D

Acq: 12 Jul 2018 17:31

Instrument :

MSVOA_N

ClientSampleId :

VSTDCCC050

Tot Ion: 65 Resp: 694019

Ion Ratio Lower Upper

65 100

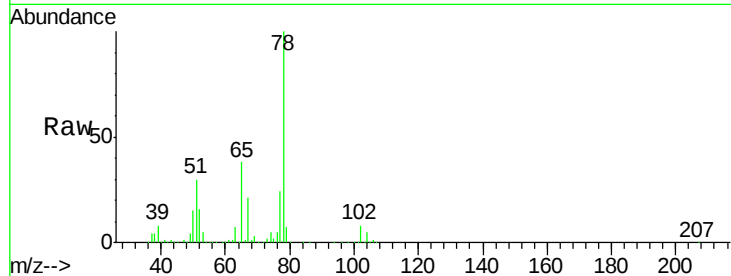
67 54.0 0.0 107.2

Manual Integrations

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Abundance Ion 64.90 (64.60 to 65.60): VN049776.D (-1910) (-)

Ion 66.90 (66.60 to 67.60): VN049776.D (-1910) (-)

8.03

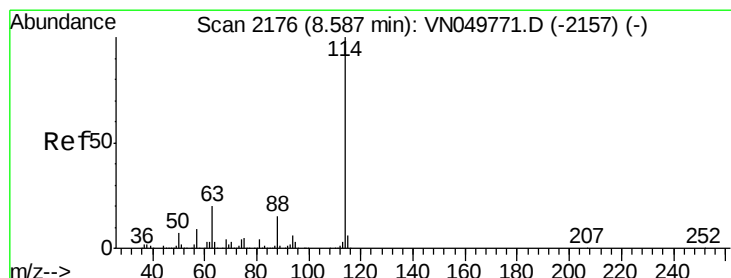
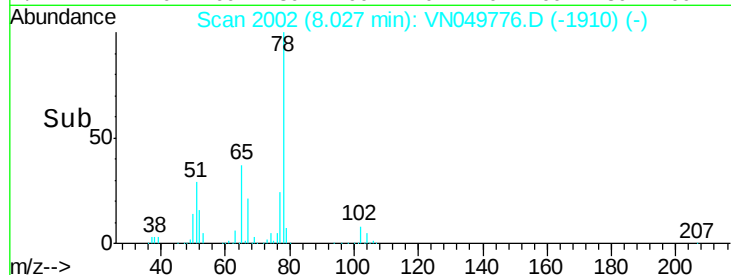
300000

200000

100000

0

Time-->



#34

1,4-Difluorobenzene

Concen: 50.00 ug/l

RT: 8.59 min Scan# 2176

Delta R.T. 0.00 min

Lab File: VN049776.D

Acq: 12 Jul 2018 17:31

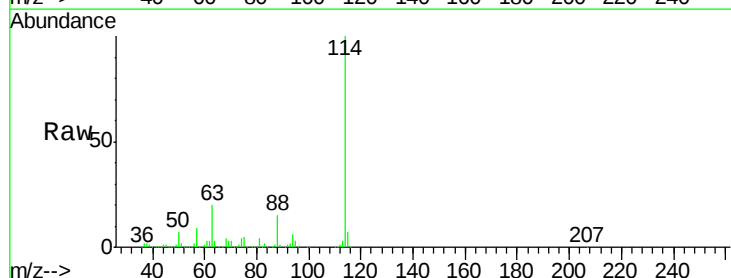
Tgt Ion: 114 Resp: 1822168

Ion Ratio Lower Upper

114 100

63 20.2 0.0 39.8

88 15.0 0.0 30.6



Abundance Ion 113.90 (113.60 to 114.60): VN049776.D (-2083) (-)

Ion 63.00 (62.70 to 63.70): VN049776.D (-2083) (-)

Ion 87.90 (87.60 to 88.60): VN049776.D (-2083) (-)

8.59

1200000

1000000

800000

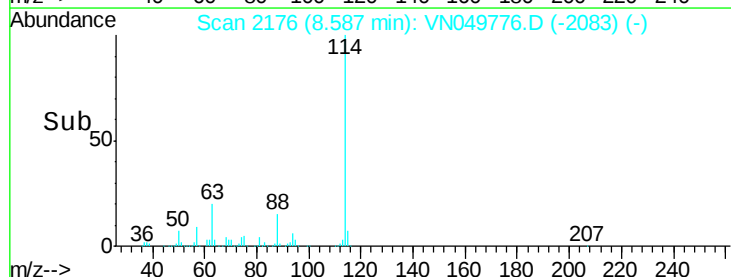
600000

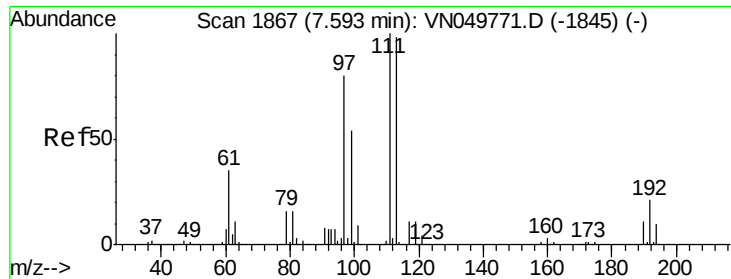
400000

200000

0

Time-->





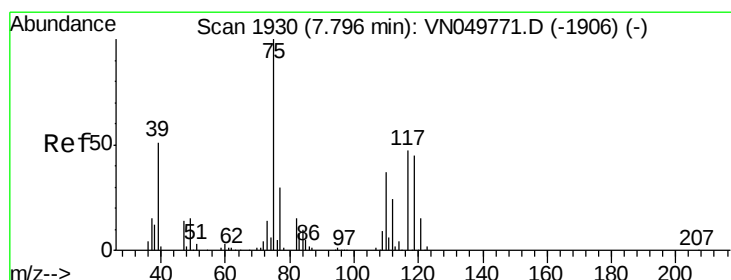
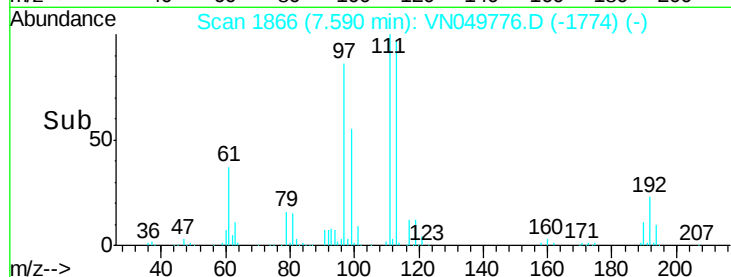
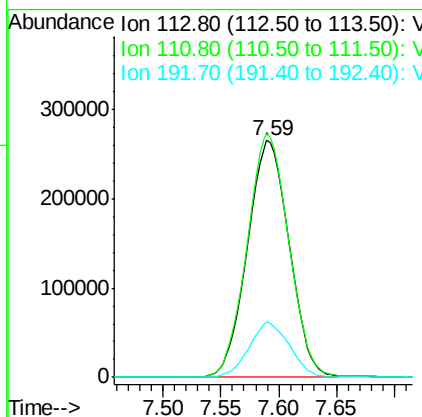
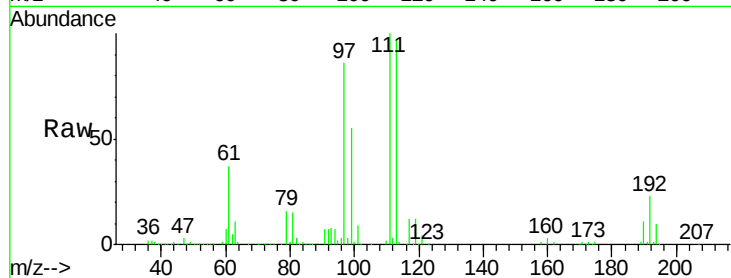
#35
 Dibromofluoromethane
 Concen: 48.58 ug/l
 RT: 7.59 min Scan# 1866
 Delta R.T. -0.00 min
 Lab File: VN049776.D
 Acq: 12 Jul 2018 17:31

Instrument :
 MSVOA_N
 ClientSampleId :
 VSTDCCC050

Tot Ion	Ratio	Resp	Lower	Upper
113	100	667316		
111	102.5	81.8	122.8	
192	22.5	17.8	26.6	

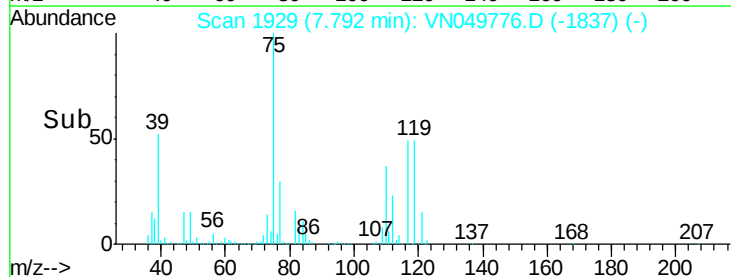
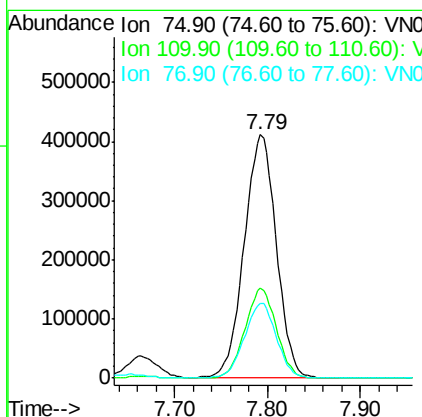
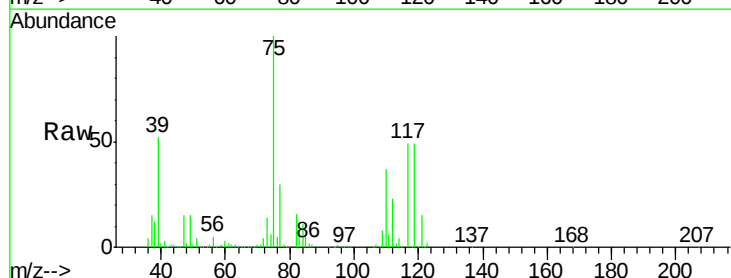
Manual Integrations
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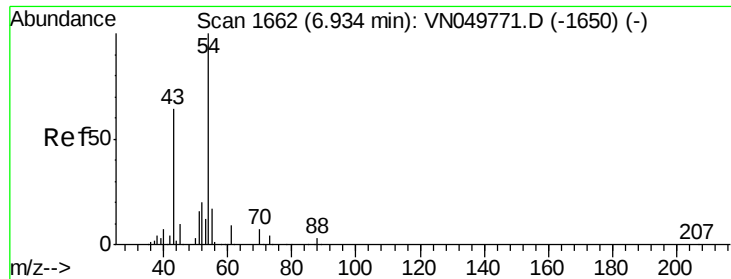
MMDadoda
 7/13/2018 1:35:15 PM



#36
 1,1-Dichloropropene
 Concen: 47.02 ug/l
 RT: 7.79 min Scan# 1929
 Delta R.T. -0.00 min
 Lab File: VN049776.D
 Acq: 12 Jul 2018 17:31

Tgt Ion	Ratio	Resp	Lower	Upper
75	100	987333		
110	36.1	18.1	54.4	
77	30.6	24.9	37.3	





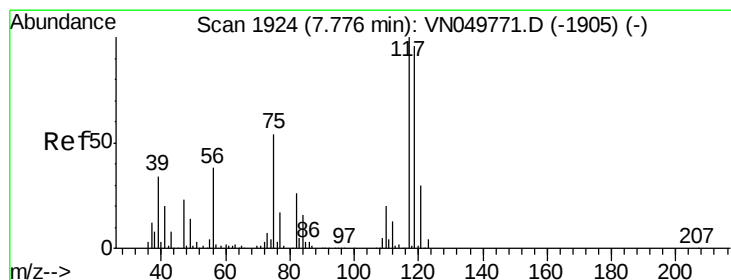
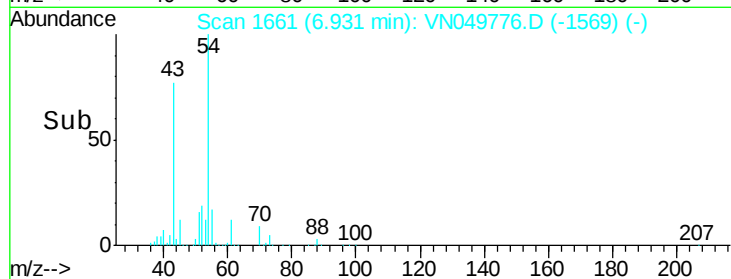
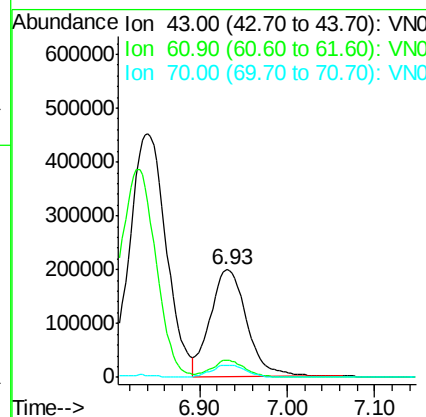
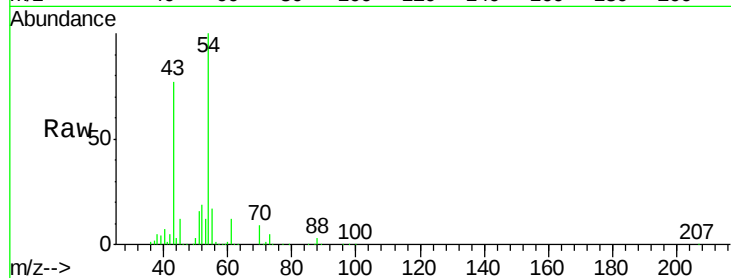
#37
Ethyl Acetate
Concen: 46.54 ug/l
RT: 6.93 min Scan# 1661
Delta R.T. -0.00 min
Lab File: VN049776.D
Acq: 12 Jul 2018 17:31

Instrument :
MSVOA_N
ClientSampled :
VSTDCCC050

Tot Ion	43	Ratio	Lower	Upper
43	100			
61	13.9	11.7	17.5	
70	10.7	8.4	12.6	

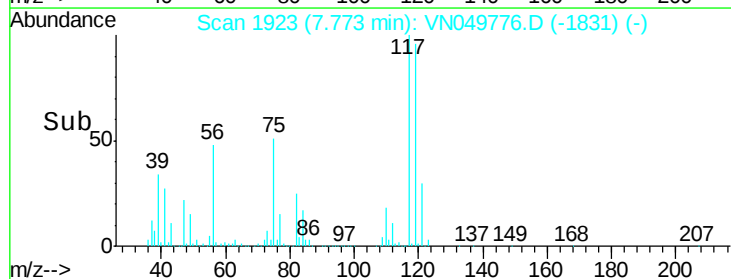
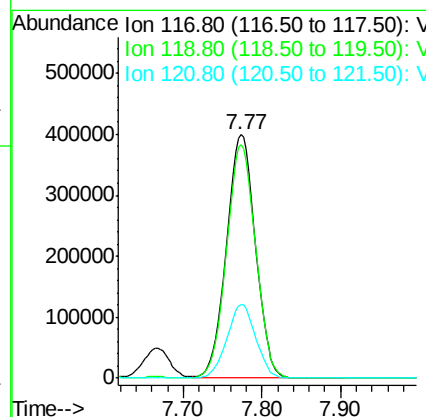
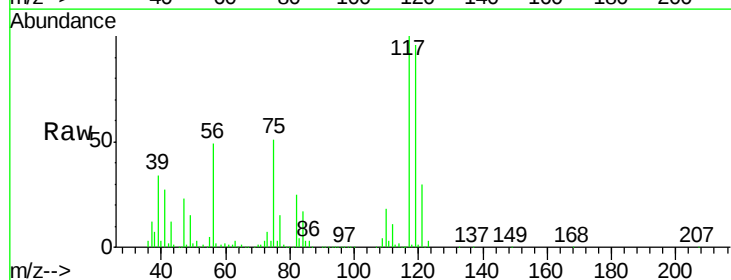
Manual Integrations
APPROVED

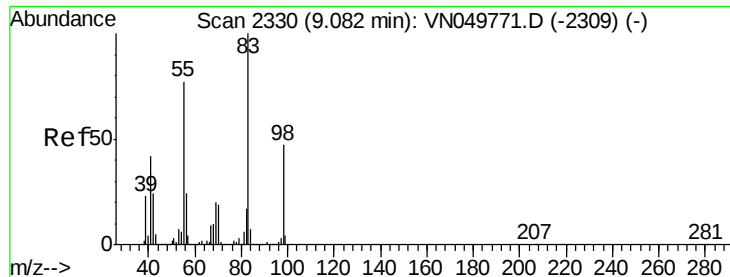
MMDadoda
7/13/2018 1:35:15 PM



#38
Carbon Tetrachloride
Concen: 46.23 ug/l
RT: 7.77 min Scan# 1923
Delta R.T. -0.00 min
Lab File: VN049776.D
Acq: 12 Jul 2018 17:31

Tgt Ion	117	Ratio	Lower	Upper
117	100			
119	95.9	77.2	115.8	
121	30.3	25.0	37.6	





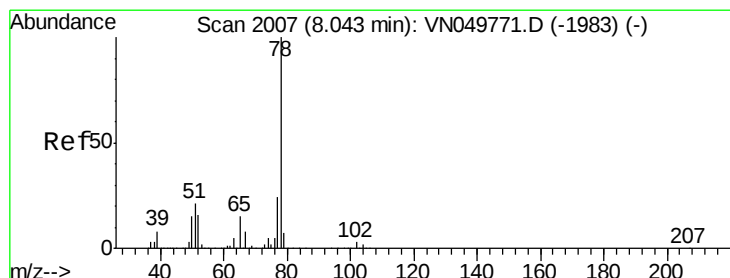
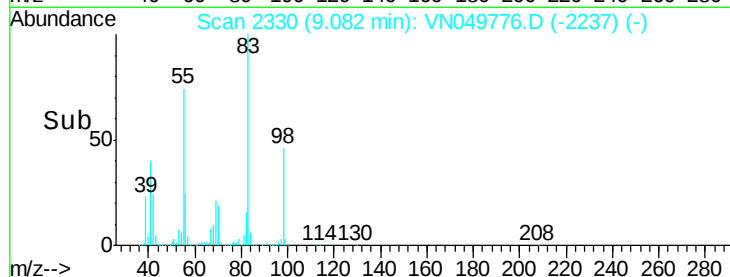
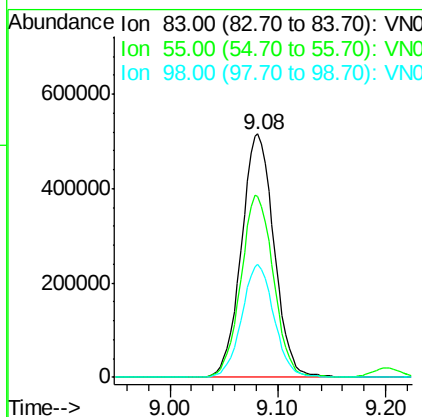
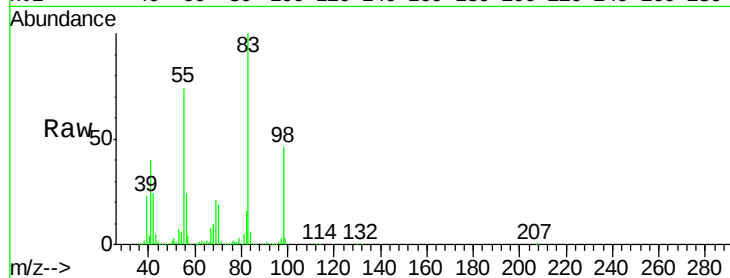
#39
Methvlcvclohexane
Concen: 49.08 ug/l
RT: 9.08 min Scan# 2330
Delta R.T. 0.00 min
Lab File: VN049776.D
Acq: 12 Jul 2018 17:31

Instrument :
MSVOA_N
ClientSampleId :
VSTDCCC050

Tot Ion	Ratio	Lower	Upper
83	100		
55	74.3	59.7	89.5
98	46.3	36.5	54.7

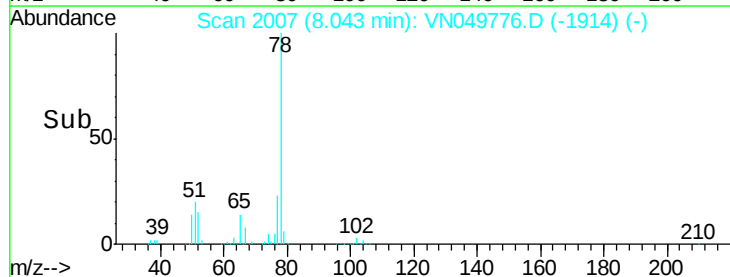
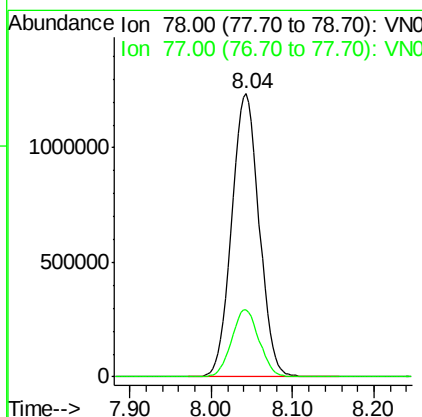
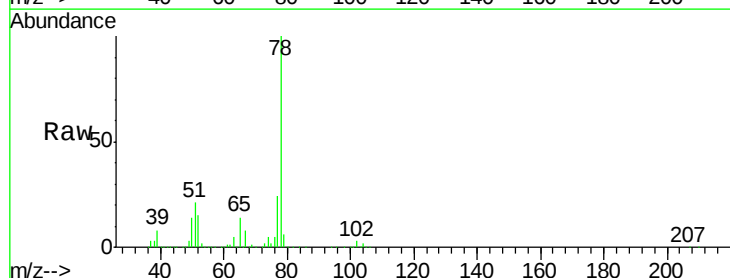
Manual Integrations
APPROVED

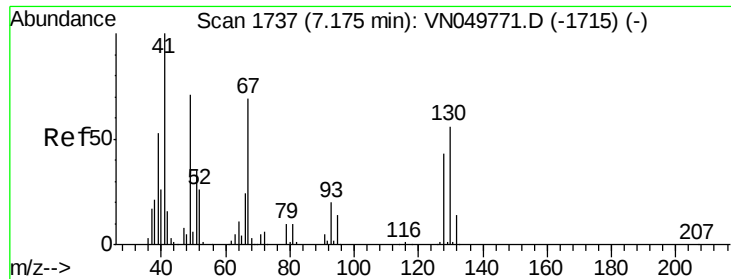
MMDadoda
7/13/2018 1:35:15 PM



#40
Benzene
Concen: 46.33 ug/l
RT: 8.04 min Scan# 2007
Delta R.T. 0.00 min
Lab File: VN049776.D
Acq: 12 Jul 2018 17:31

Tgt Ion	Ratio	Lower	Upper
78	100		
77	23.7	19.0	28.4





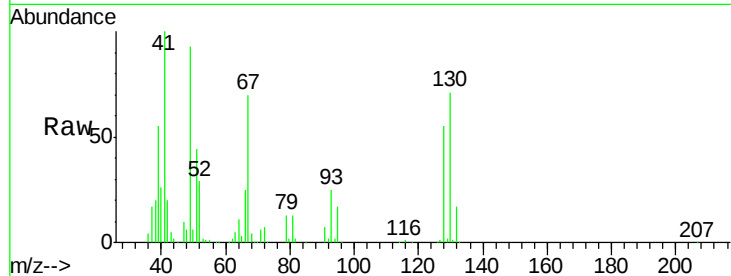
#41
Methacrylonitrile
Concen: 46.12 ug/l
RT: 7.18 min Scan# 1737
Delta R.T. 0.00 min
Lab File: VN049776.D
Acq: 12 Jul 2018 17:31

Instrument :
MSVOA_N
ClientSampleId :
VSTDCCC050

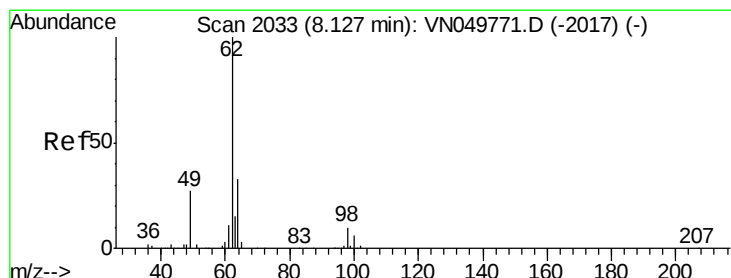
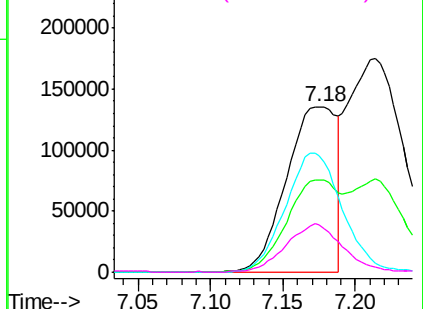
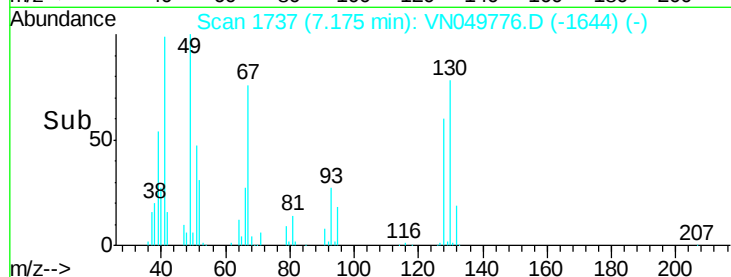
Tot Ion	Ratio	Lower	Upper
41	100		
39	58.2	45.4	68.2
67	83.1	65.4	98.0
52	32.7	24.7	37.1

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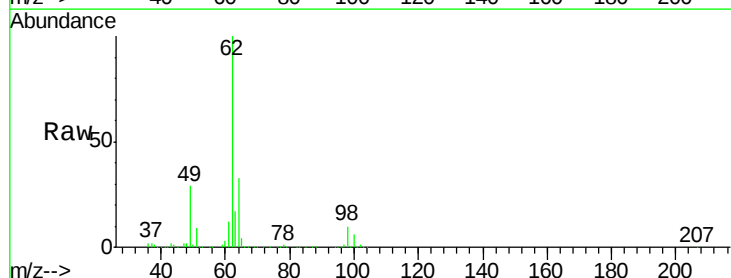


Abundance Ion 41.00 (40.70 to 41.70): VN049776.D (-1644) (-)
Ion 39.00 (38.70 to 39.70): VN049776.D (-1644) (-)
Ion 67.00 (66.70 to 67.70): VN049776.D (-1644) (-)
Ion 52.00 (51.70 to 52.70): VN049776.D (-1644) (-)

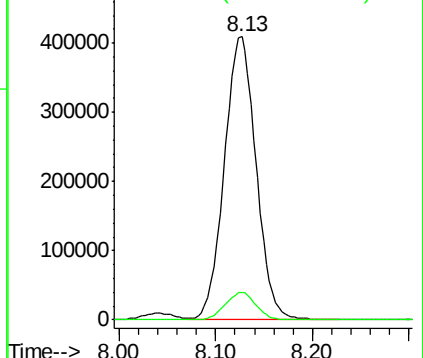
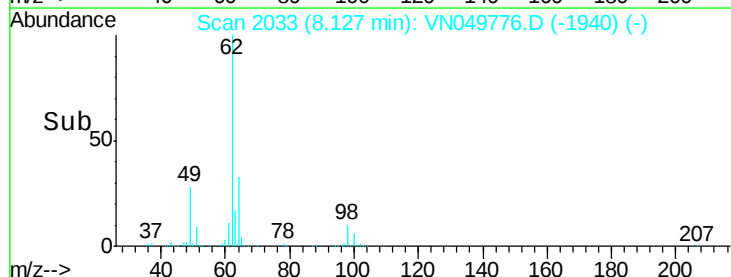


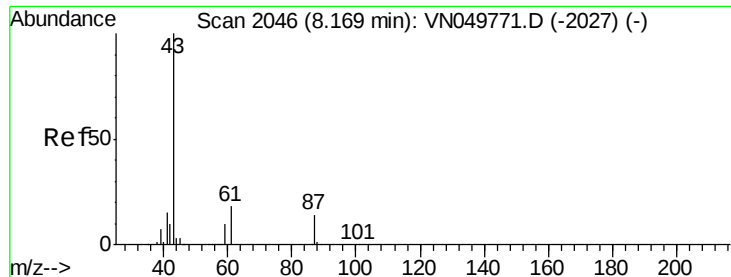
#42
1,2-Dichloroethane
Concen: 45.31 ug/l
RT: 8.13 min Scan# 2033
Delta R.T. 0.00 min
Lab File: VN049776.D
Acq: 12 Jul 2018 17:31

Tgt Ion	Ratio	Lower	Upper
62	100		
98	9.5	0.0	19.0



Abundance Ion 61.90 (61.60 to 62.60): VN049776.D (-1940) (-)
Ion 97.90 (97.60 to 98.60): VN049776.D (-1940) (-)





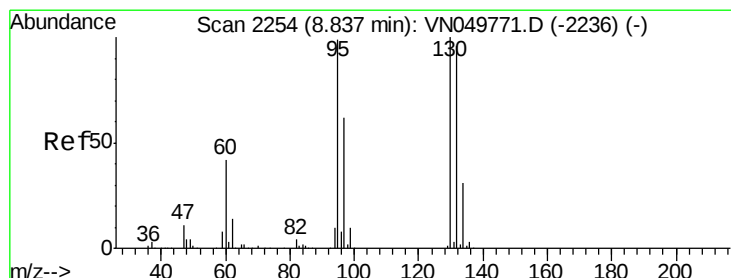
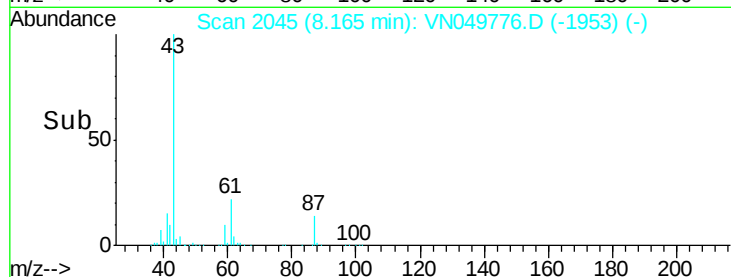
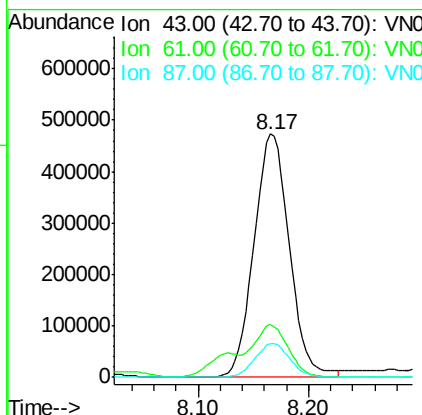
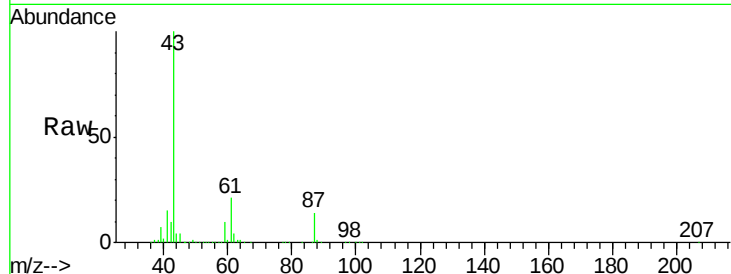
#43
Isopropyl Acetate
Concen: 46.93 ug/l
RT: 8.17 min Scan# 2045
Delta R.T. -0.00 min
Lab File: VN049776.D
Acq: 12 Jul 2018 17:31

Instrument :
MSVOA_N
ClientSampleId :
VSTDCCC050

Tot Ion: 43 Resp: 1048477
Ion Ratio Lower Upper
43 100
61 21.1 14.9 22.3
87 13.8 10.0 15.0

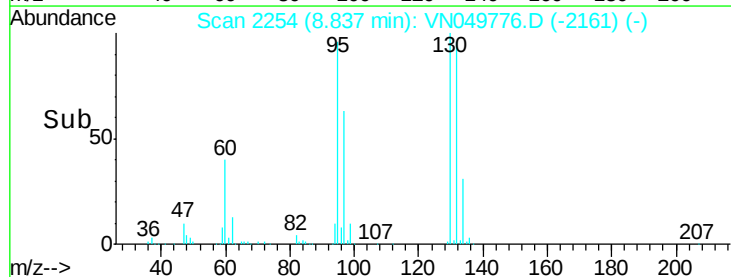
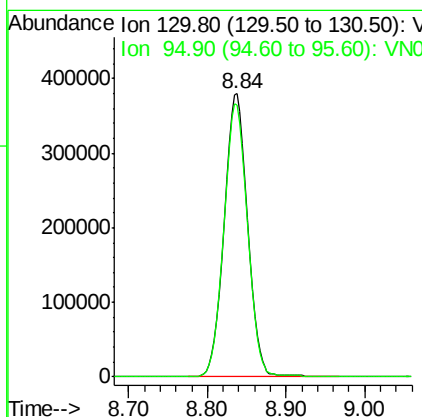
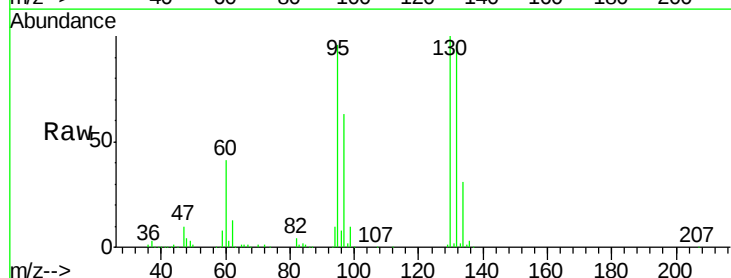
Manual Integrations
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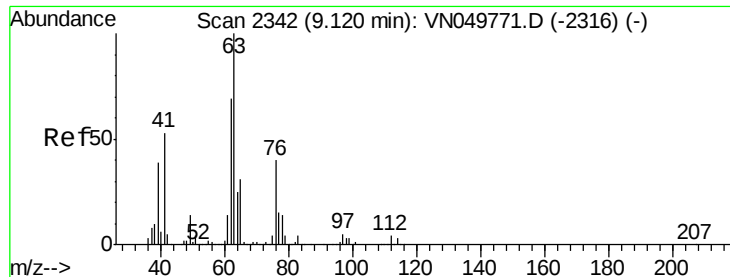
MMDadoda
7/13/2018 1:35:15 PM



#44
Trichloroethene
Concen: 46.00 ug/l
RT: 8.84 min Scan# 2254
Delta R.T. 0.00 min
Lab File: VN049776.D
Acq: 12 Jul 2018 17:31

Tgt Ion:130 Resp: 778128
Ion Ratio Lower Upper
130 100
95 96.0 0.0 192.8





#45

1,2-Dichloropropane

Concen: 46.83 ug/l

RT: 9.12 min Scan# 2342

Delta R.T. 0.00 min

Lab File: VN049776.D

Acq: 12 Jul 2018 17:31

Instrument :

MSVOA_N

ClientSampleId :

VSTDCCC050

Tot Ion: 63 Resp: 790620

Ion Ratio Lower Upper

63 100

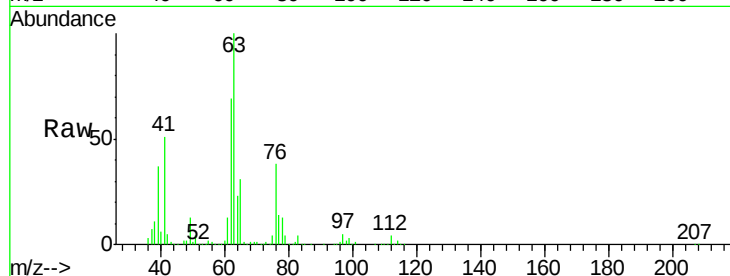
65 31.1 24.7 37.1

Manual Integrations

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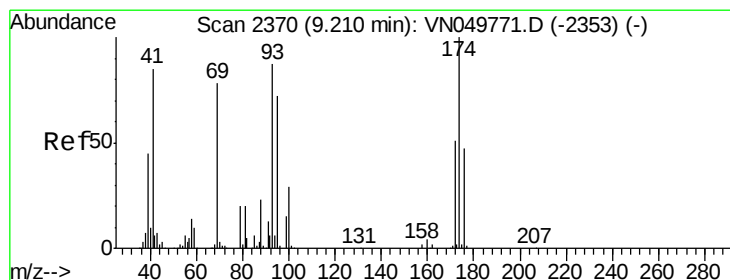
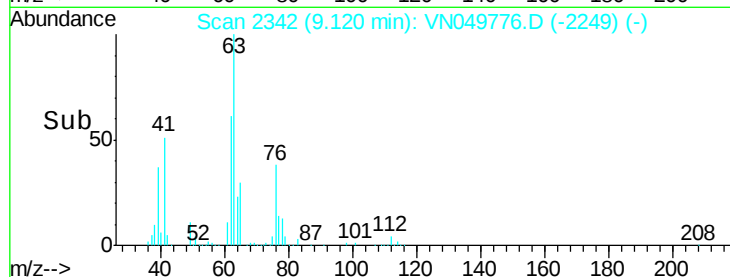
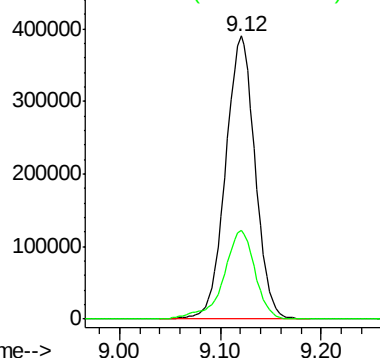
MMDadoda

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Abundance Ion 62.90 (62.60 to 63.60): VN0

Ion 64.90 (64.60 to 65.60): VN0



#46

Dibromomethane

Concen: 45.33 ug/l

RT: 9.21 min Scan# 2370

Delta R.T. 0.00 min

Lab File: VN049776.D

Acq: 12 Jul 2018 17:31

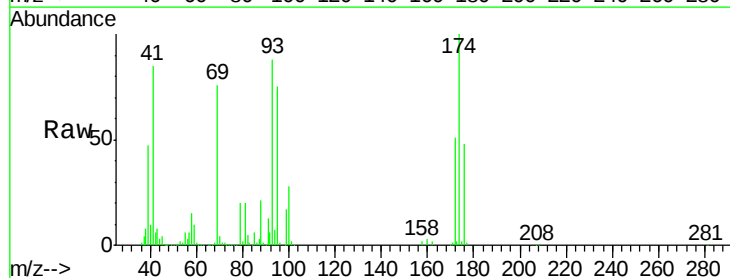
Tgt Ion: 93 Resp: 454446

Ion Ratio Lower Upper

93 100

95 83.7 67.9 101.9

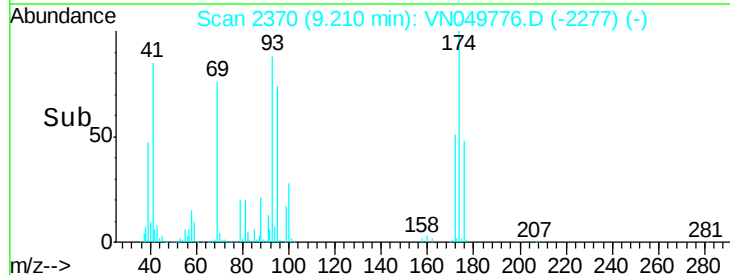
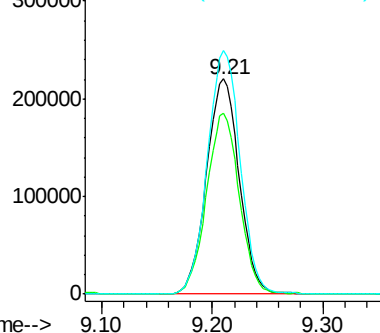
174 113.0 89.4 134.0

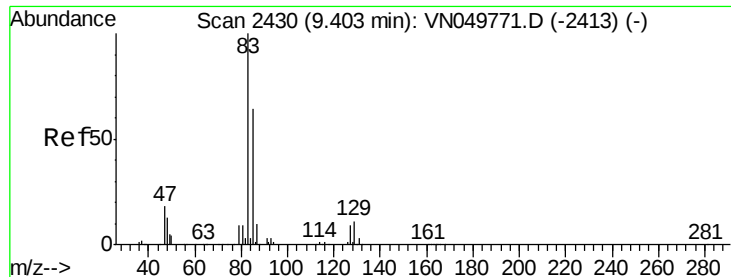


Abundance Ion 92.80 (92.50 to 93.50): VN0

Ion 94.80 (94.50 to 95.50): VN0

Ion 173.70 (173.40 to 174.40): V





#47

Bromodichloromethane

Concen: 46.19 ug/l

RT: 9.40 min Scan# 2430

Delta R.T. 0.00 min

Lab File: VN049776.D

Acq: 12 Jul 2018 17:31

Instrument :

MSVOA_N

ClientSampleId :

VSTDCCC050

Tot Ion: 83 Resp: 1019903

Ion Ratio Lower Upper

83 100

85 63.8 50.5 75.7

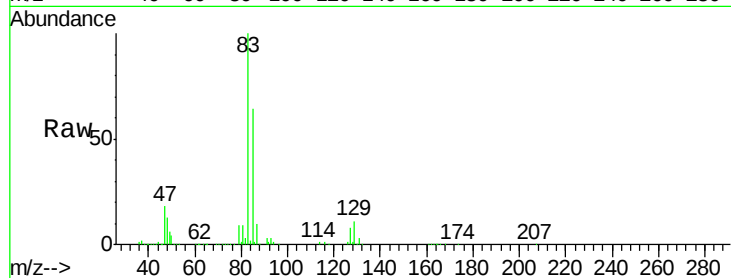
127 8.5 6.8 10.2

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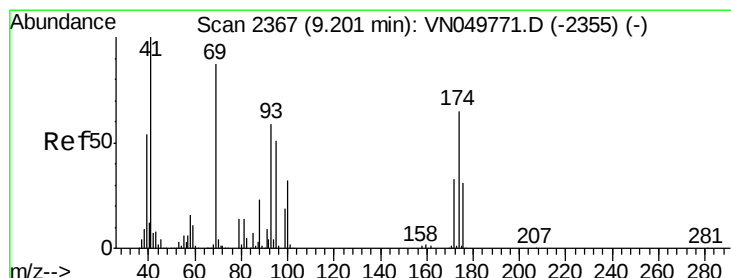
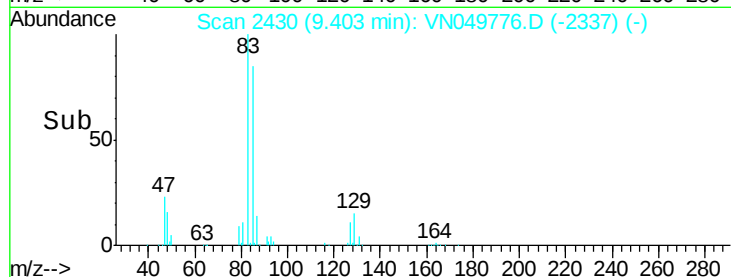
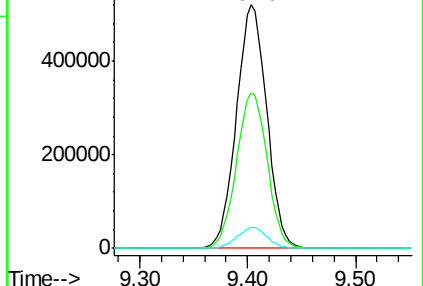
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Abundance Ion 82.90 (82.60 to 83.60): VN049776.D (-2337) (-)

Ion 84.90 (84.60 to 85.60): VN049776.D (-2337) (-)

Ion 126.80 (126.50 to 127.50): VN049776.D (-2337) (-)



#48

Methyl methacrylate

Concen: 47.35 ug/l

RT: 9.20 min Scan# 2367

Delta R.T. 0.00 min

Lab File: VN049776.D

Acq: 12 Jul 2018 17:31

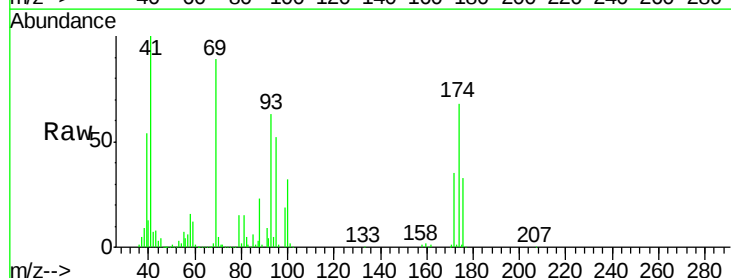
Tgt Ion: 41 Resp: 528925

Ion Ratio Lower Upper

41 100

69 88.3 71.5 107.3

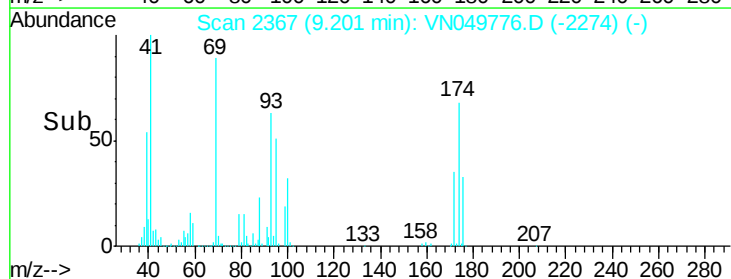
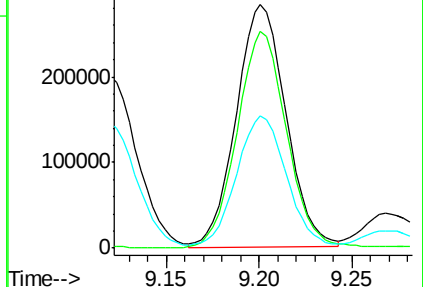
39 54.8 44.7 67.1

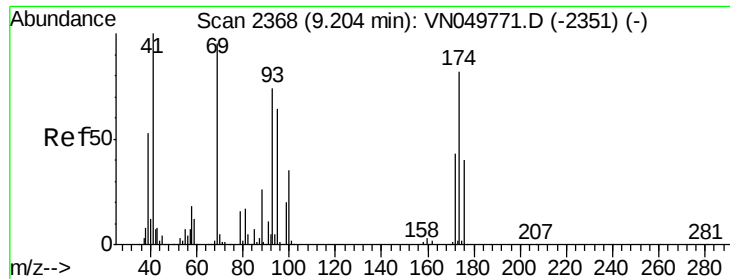


Abundance Ion 41.00 (40.70 to 41.70): VN049776.D (-2274) (-)

Ion 69.00 (68.70 to 69.70): VN049776.D (-2274) (-)

Ion 39.00 (38.70 to 39.70): VN049776.D (-2274) (-)





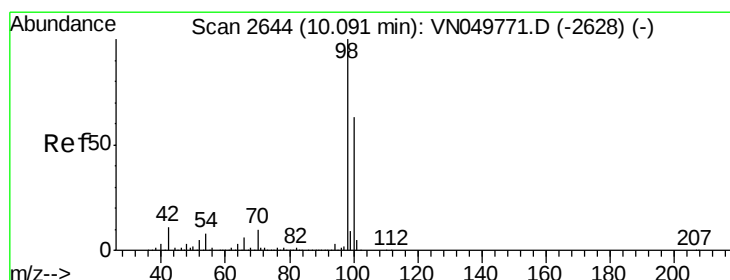
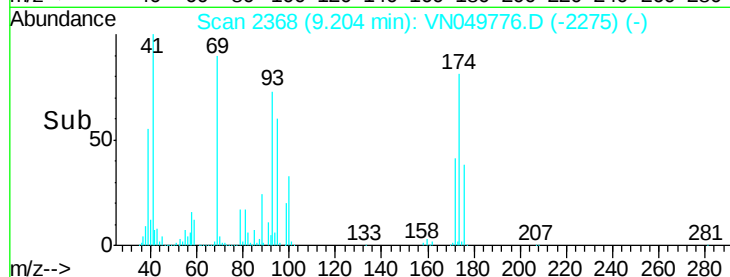
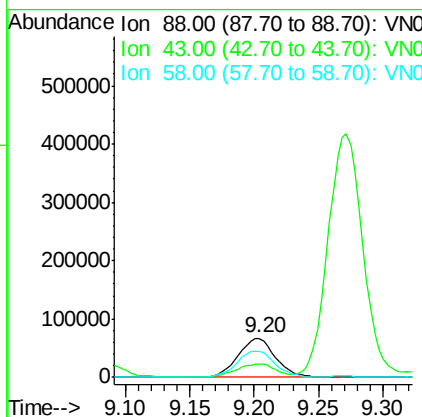
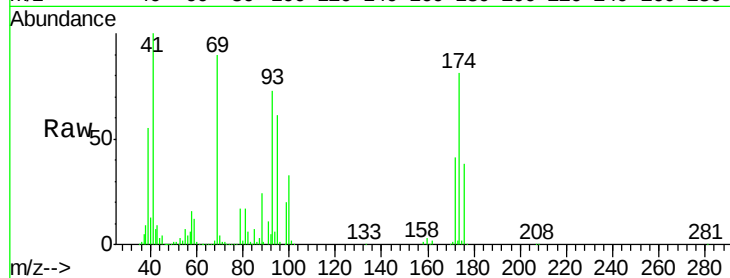
#49
1,4-Dioxane
Concen: 923.08 ug/l
RT: 9.20 min Scan# 2368
Delta R.T. 0.00 min
Lab File: VN049776.D
Acq: 12 Jul 2018 17:31

Instrument :
MSVOA_N
ClientSampleId :
VSTDCCC050

Tot Ion	Ratio	Lower	Upper
88	100		
43	32.9	25.1	37.7
58	69.6	52.5	78.7

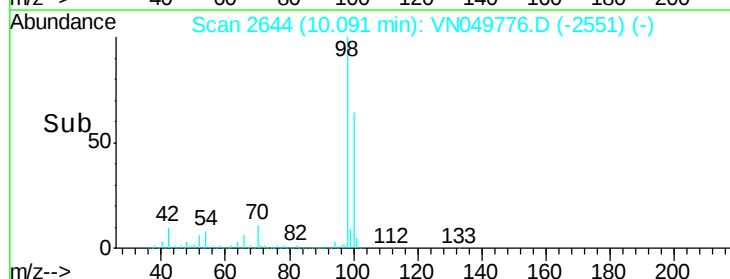
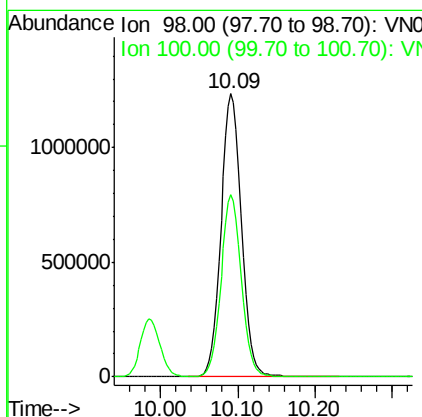
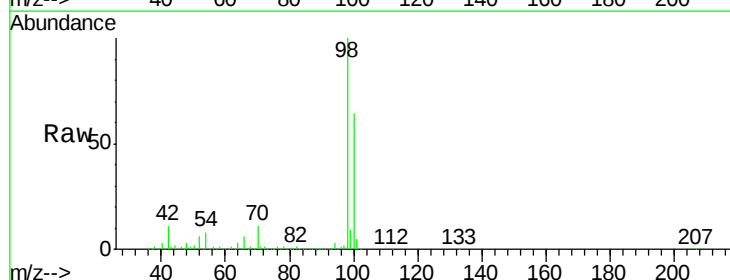
Manual Integrations
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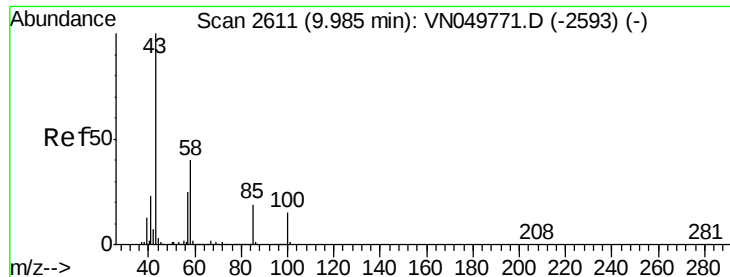
MMDadoda
7/13/2018 1:35:15 PM



#50
Toluene-d8
Concen: 48.44 ug/l
RT: 10.09 min Scan# 2644
Delta R.T. 0.00 min
Lab File: VN049776.D
Acq: 12 Jul 2018 17:31

Tgt Ion	Ratio	Lower	Upper
98	100		
100	63.8	51.7	77.5





#51

4-Methyl-2-Pentanone

Concen: 239.06 ug/l

RT: 9.99 min Scan# 2611

Delta R.T. 0.00 min

Lab File: VN049776.D

Acq: 12 Jul 2018 17:31

Instrument :

MSVOA_N

ClientSampleId :

VSTDCCC050

Tot Ion: 43 Resp: 2899763

Ion Ratio Lower Upper

43 100

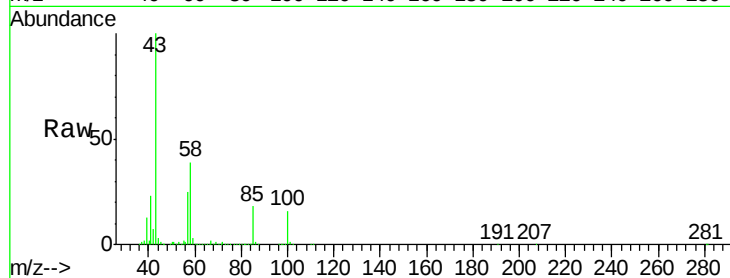
58 39.5 31.8 47.8

Manual Integrations

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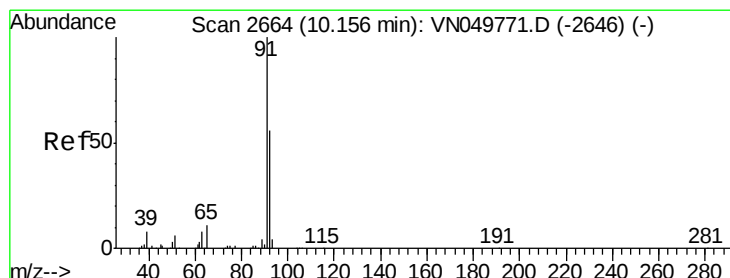
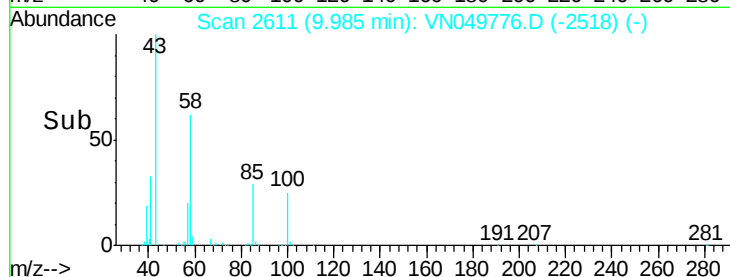
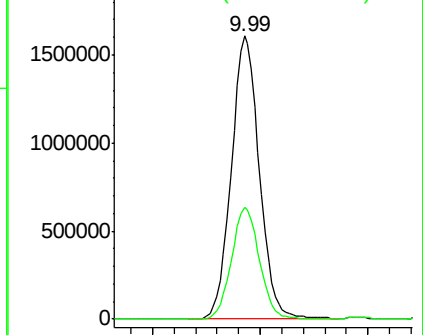
MMDadoda

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Abundance Ion 43.00 (42.70 to 43.70): VN049771.D (-2593) (-)

Ion 58.00 (57.70 to 58.70): VN049771.D (-2593) (-)



#52

Toluene

Concen: 48.50 ug/l

RT: 10.16 min Scan# 2664

Delta R.T. 0.00 min

Lab File: VN049776.D

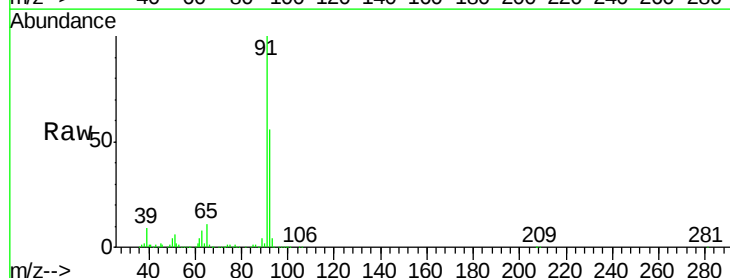
Acq: 12 Jul 2018 17:31

Tgt Ion: 92 Resp: 1823482

Ion Ratio Lower Upper

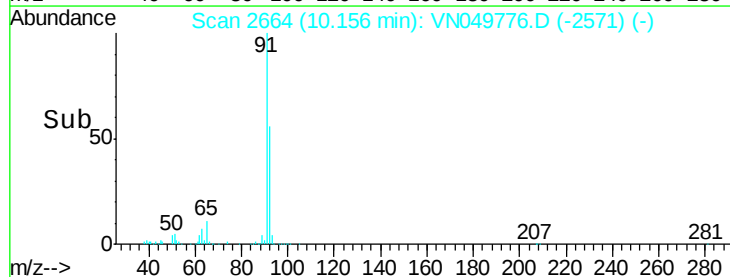
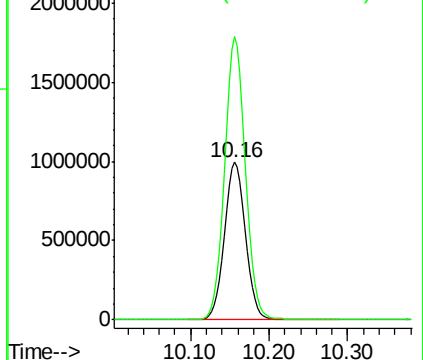
92 100

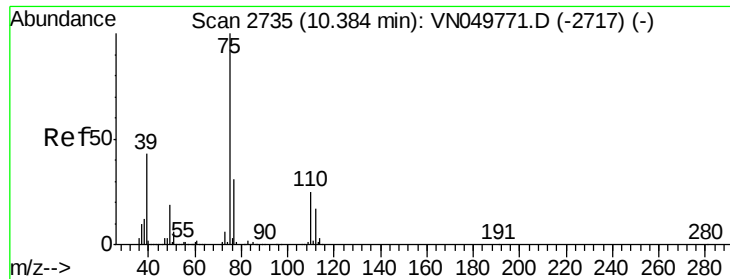
91 176.8 140.1 210.1



Abundance Ion 92.00 (91.70 to 92.70): VN049771.D (-2646) (-)

Ion 91.00 (90.70 to 91.70): VN049771.D (-2646) (-)





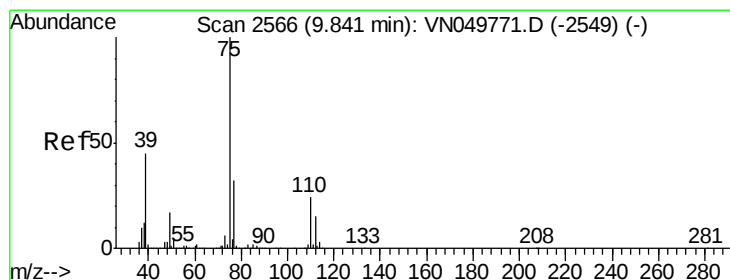
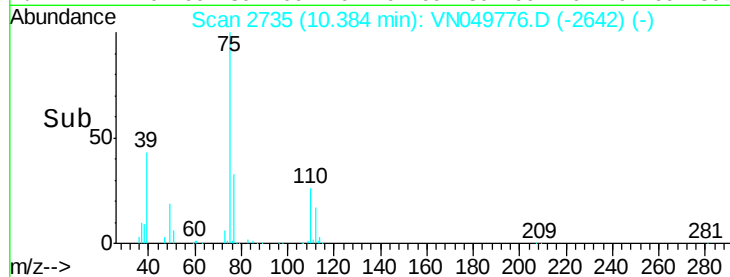
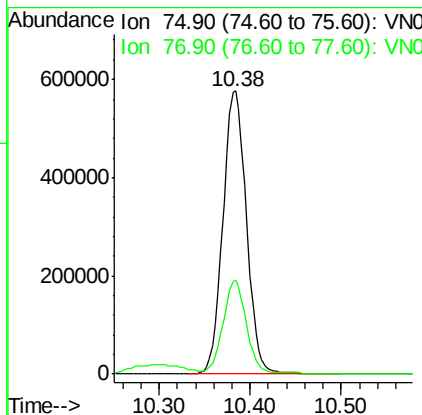
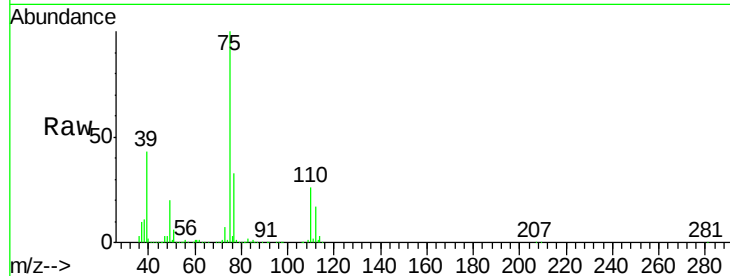
#53
 t-1,3-Dichloropropene
 Concen: 48.82 ug/l
 RT: 10.38 min Scan# 2735
 Delta R.T. 0.00 min
 Lab File: VN049776.D
 Acq: 12 Jul 2018 17:31

Instrument :
 MSVOA_N
 ClientSampleId :
 VSTDCCC050

Tot Ion: 75 Resp: 1036775
 Ion Ratio Lower Upper
 75 100
 77 33.0 25.2 37.8

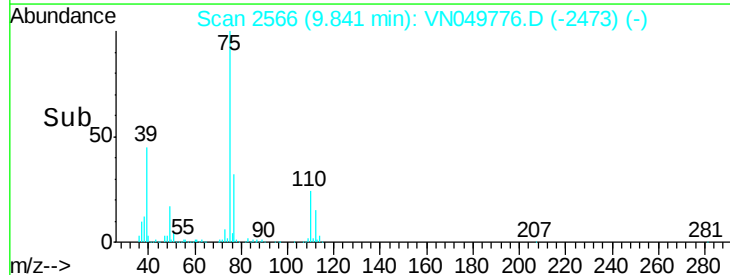
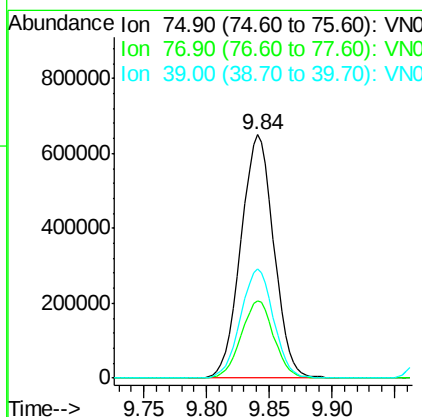
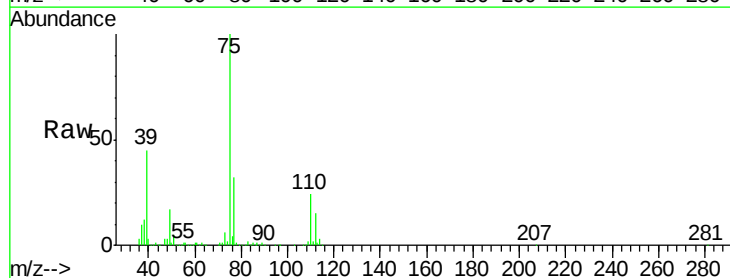
Manual Integrations
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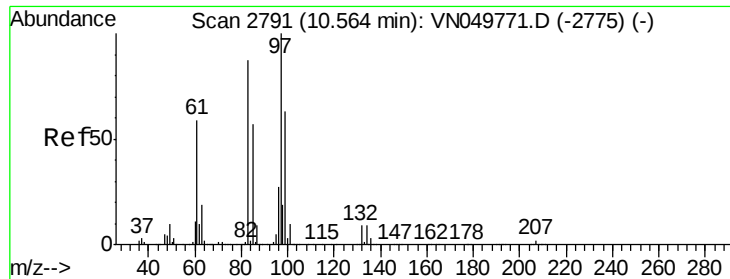
MMDadoda
 7/13/2018 1:35:15 PM



#54
 cis-1,3-Dichloropropene
 Concen: 49.27 ug/l
 RT: 9.84 min Scan# 2566
 Delta R.T. 0.00 min
 Lab File: VN049776.D
 Acq: 12 Jul 2018 17:31

Tgt Ion: 75 Resp: 1191724
 Ion Ratio Lower Upper
 75 100
 77 31.8 25.3 37.9
 39 44.8 35.5 53.3





#55

1,1,2-Trichloroethane

Concen: 47.41 ug/l

RT: 10.56 min Scan# 2791

Delta R.T. 0.00 min

Lab File: VN049776.D

Acq: 12 Jul 2018 17:31

Instrument :

MSVOA_N

ClientSampleId :

VSTDCCC050

Tot Ion: 97 Resp: 674883

Ion Ratio Lower Upper

97 100

83 87.2 69.0 103.6

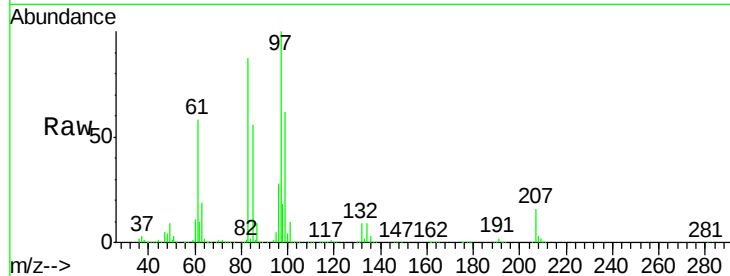
85 56.2 44.9 67.3

99 62.1 49.8 74.6

Manual Integrations
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MMDadoda

7/13/2018 1:35:15 PM

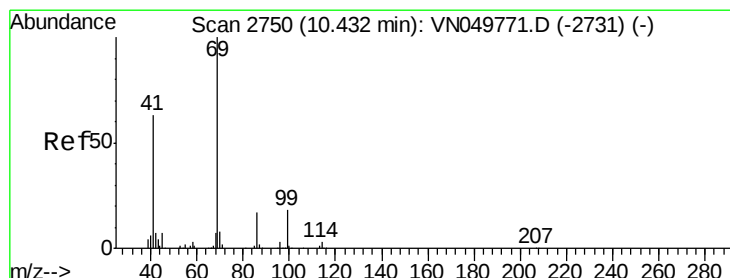
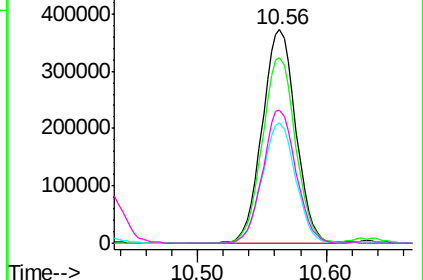
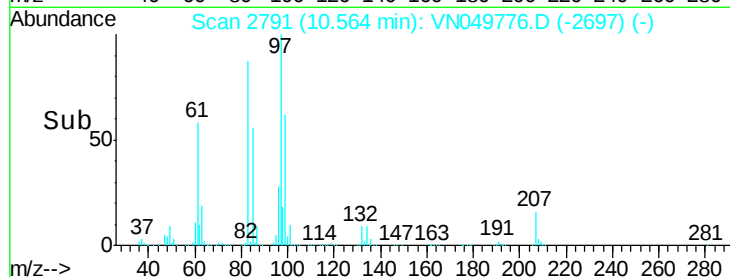


Abundance Ion 96.90 (96.60 to 97.60): VN0

Ion 82.90 (82.60 to 83.60): VN0

Ion 84.90 (84.60 to 85.60): VN0

Ion 98.90 (98.60 to 99.60): VN0



#56

Ethyl methacrylate

Concen: 49.73 ug/l

RT: 10.43 min Scan# 2749

Delta R.T. -0.00 min

Lab File: VN049776.D

Acq: 12 Jul 2018 17:31

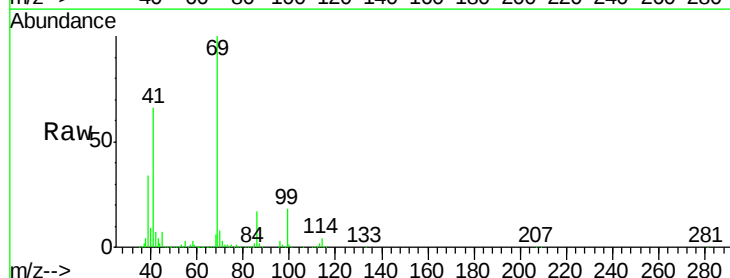
Tgt Ion: 69 Resp: 843815

Ion Ratio Lower Upper

69 100

41 63.5 51.6 77.4

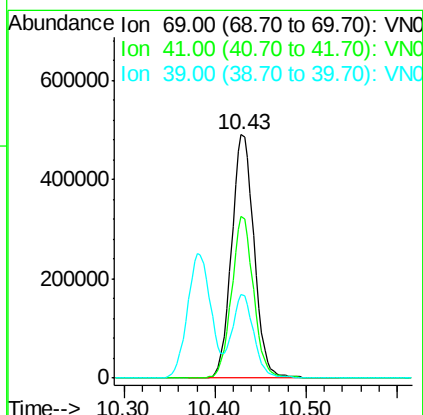
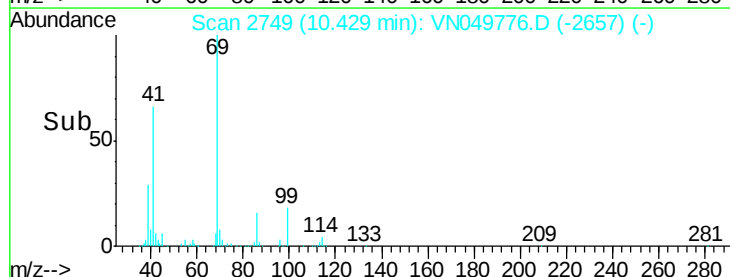
39 32.3 25.8 38.8

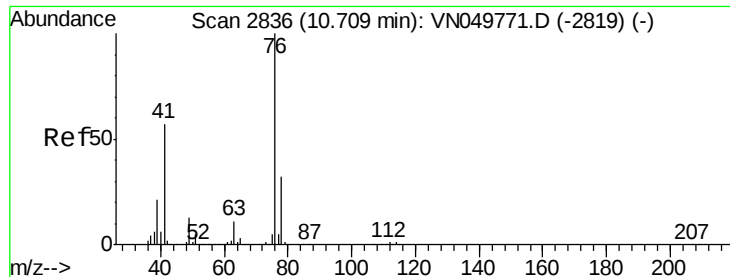


Abundance Ion 69.00 (68.70 to 69.70): VN0

Ion 41.00 (40.70 to 41.70): VN0

Ion 39.00 (38.70 to 39.70): VN0





#57

1,3-Dichloropropane

Concen: 46.49 ug/l

RT: 10.71 min Scan# 2836

Delta R.T. 0.00 min

Lab File: VN049776.D

Acq: 12 Jul 2018 17:31

Instrument :

MSVOA_N

ClientSampleId :

VSTDCCC050

Tot Ion: 76 Resp: 1113586

Ion Ratio Lower Upper

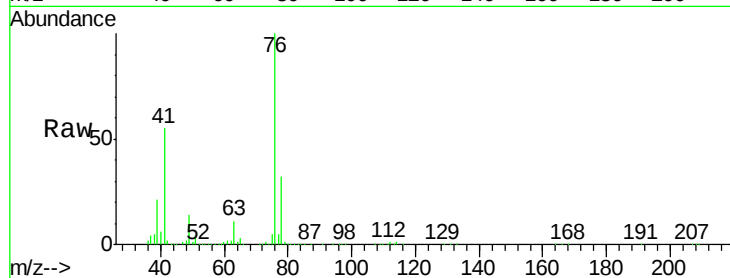
76 100

78 32.0 25.8 38.8

Manual Integrations
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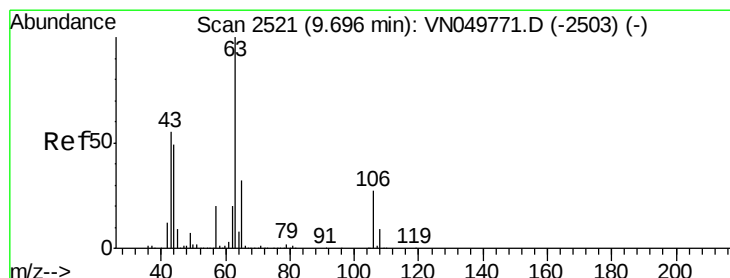
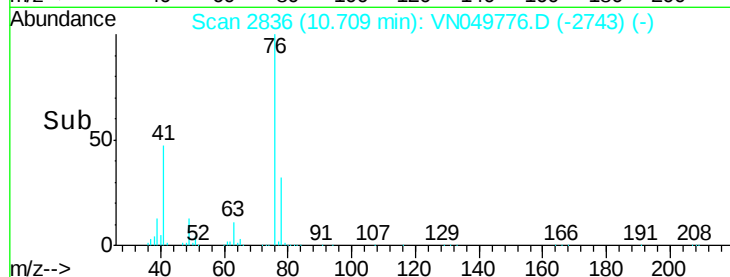
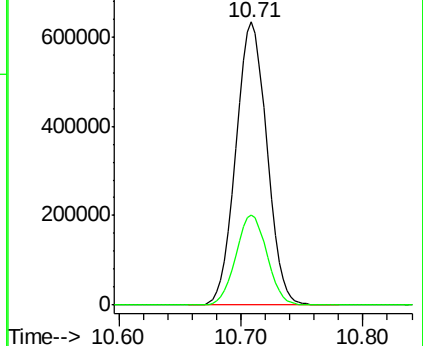
MMDadoda

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Abundance Ion 75.90 (75.60 to 76.60): VN0

Ion 77.90 (77.60 to 78.60): VN0



#58

2-Chloroethyl Vinyl ether

Concen: 306.29 ug/l

RT: 9.70 min Scan# 2521

Delta R.T. 0.00 min

Lab File: VN049776.D

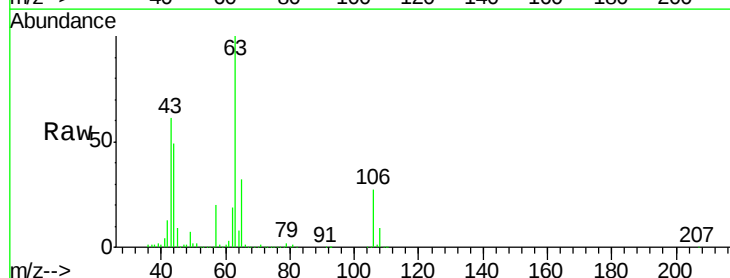
Acq: 12 Jul 2018 17:31

Tgt Ion: 63 Resp: 2492764

Ion Ratio Lower Upper

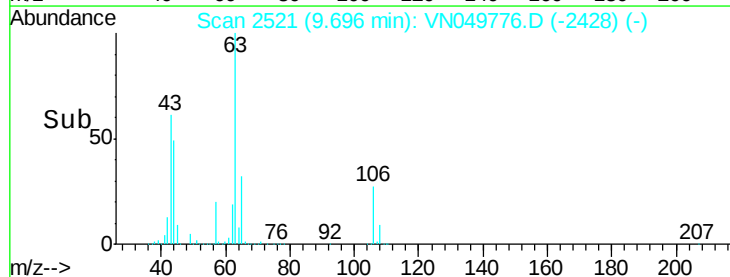
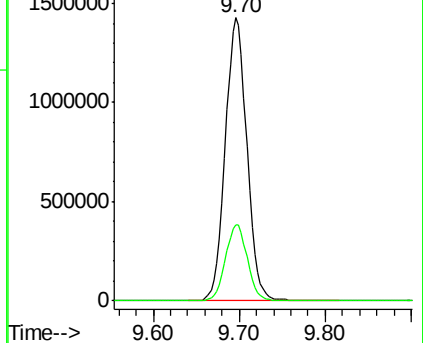
63 100

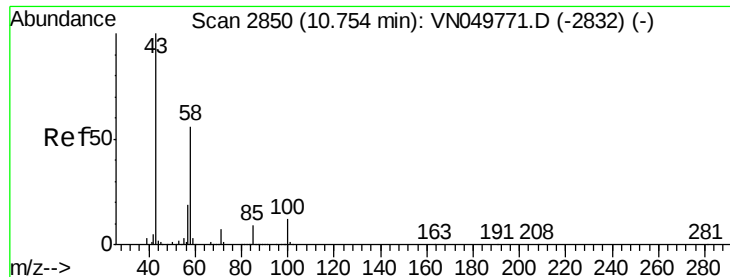
106 27.2 21.8 32.8



Abundance Ion 62.90 (62.60 to 63.60): VN0

Ion 105.90 (105.60 to 106.60): V





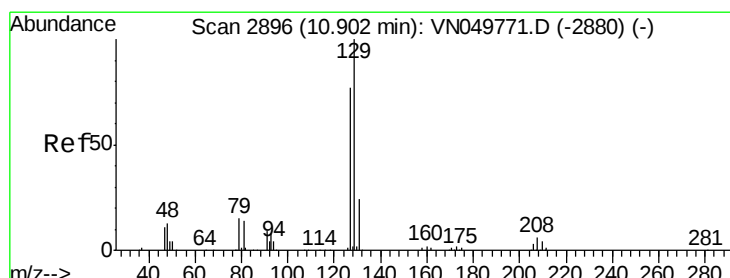
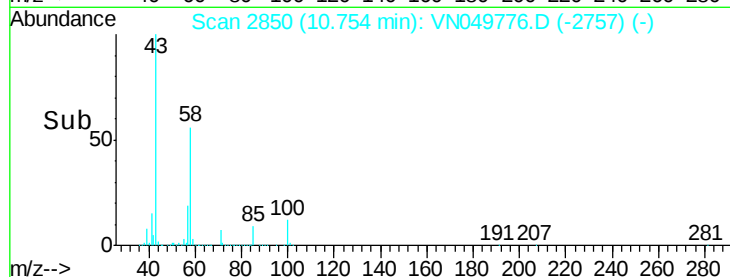
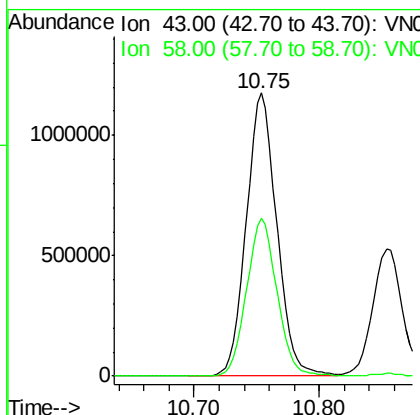
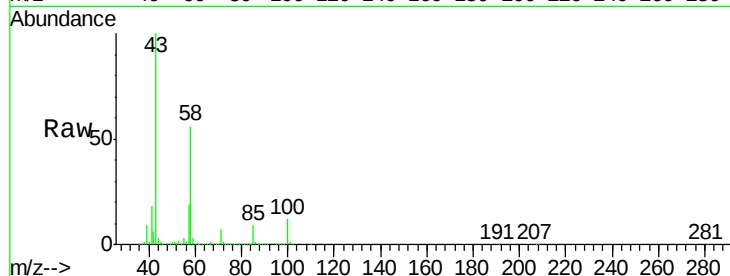
#59
2-Hexanone
Concen: 246.71 ug/l
RT: 10.75 min Scan# 2850
Delta R.T. 0.00 min
Lab File: VN049776.D
Acq: 12 Jul 2018 17:31

Instrument :
MSVOA_N
ClientSampleId :
VSTDCCC050

Tot Ion: 43 Resp: 1989462
Ion Ratio Lower Upper
43 100
58 55.8 27.8 83.4

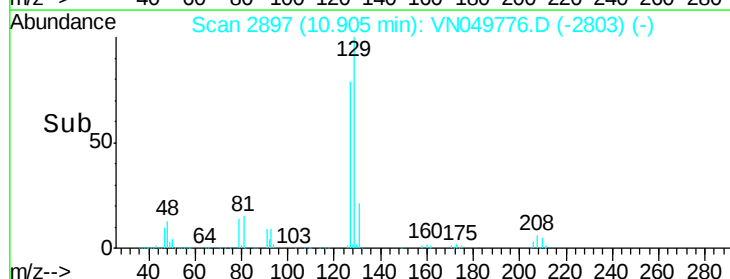
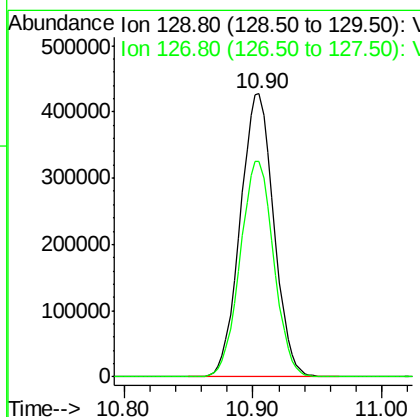
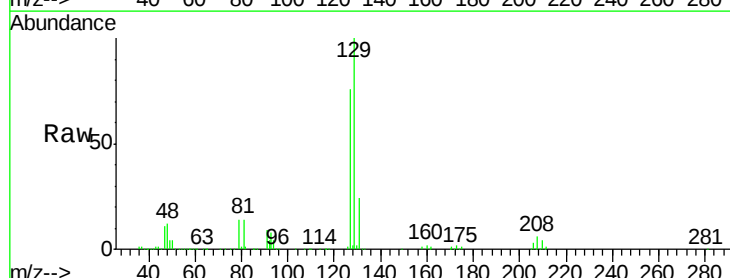
Manual Integrations
APPROVED

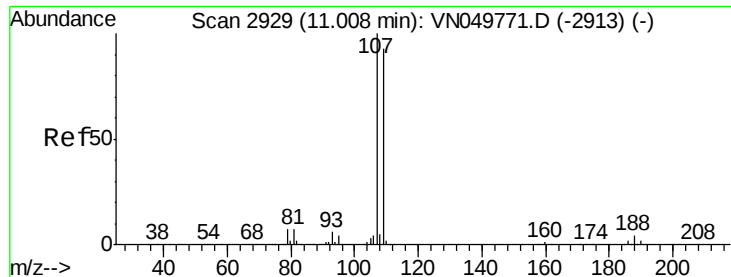
MMDadoda
7/13/2018 1:35:15 PM



#60
Dibromochloromethane
Concen: 46.99 ug/l
RT: 10.90 min Scan# 2897
Delta R.T. 0.00 min
Lab File: VN049776.D
Acq: 12 Jul 2018 17:31

Tgt Ion: 129 Resp: 773956
Ion Ratio Lower Upper
129 100
127 76.2 38.3 114.9





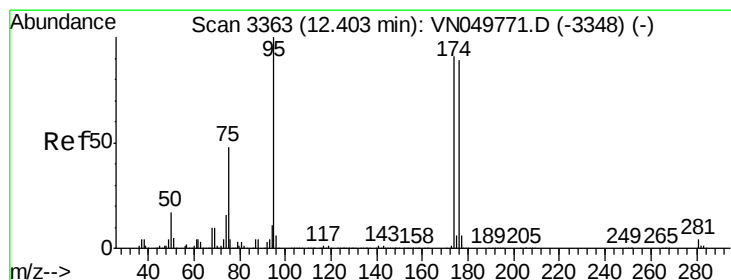
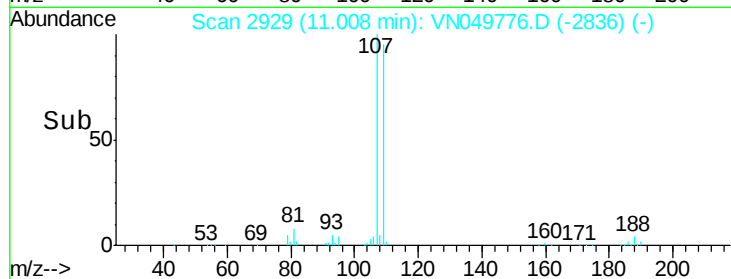
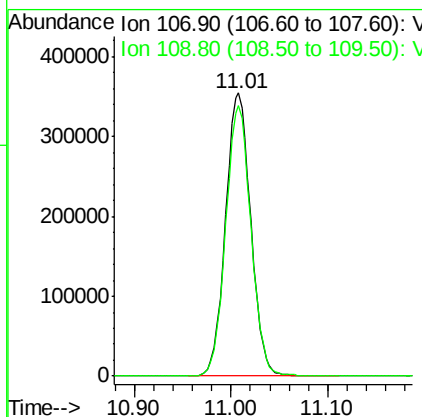
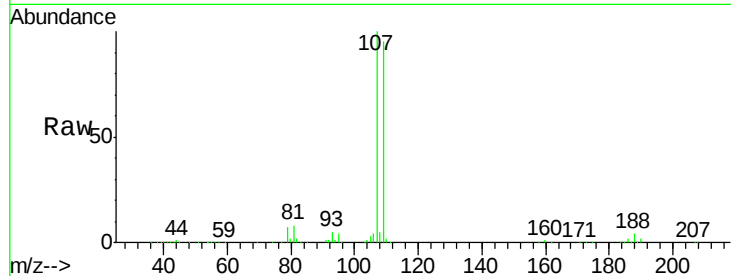
#61
 1,2-Dibromoethane
 Concen: 46.95 ug/l
 RT: 11.01 min Scan# 2929
 Delta R.T. 0.00 min
 Lab File: VN049776.D
 Acq: 12 Jul 2018 17:31

Instrument :
 MSVOA_N
 ClientSampleId :
 VSTDCCC050

Tot Ion	Ratio	Lower	Upper
107	100		
109	95.6	75.0	112.6

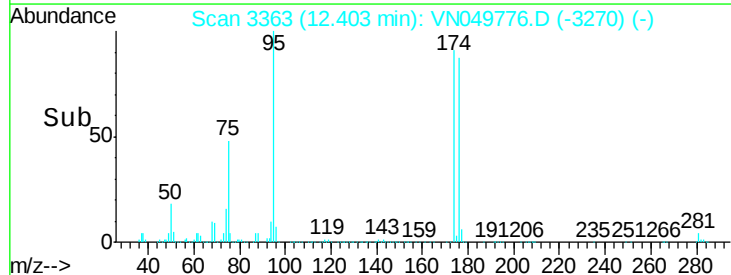
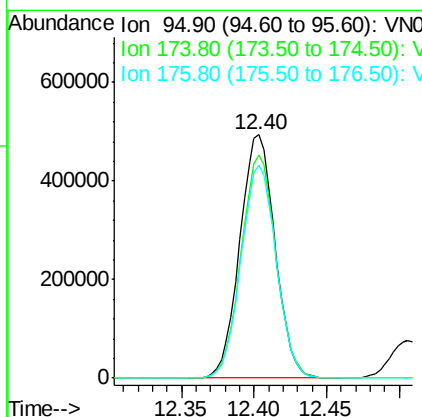
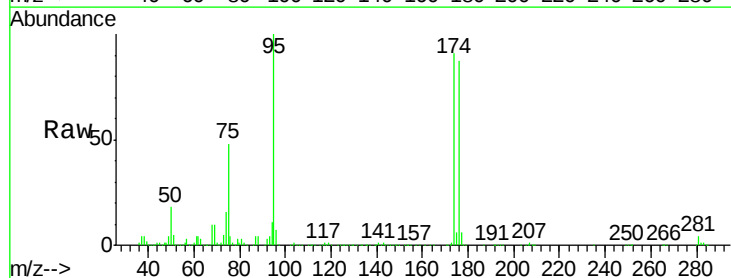
Manual Integrations
 APPROVED

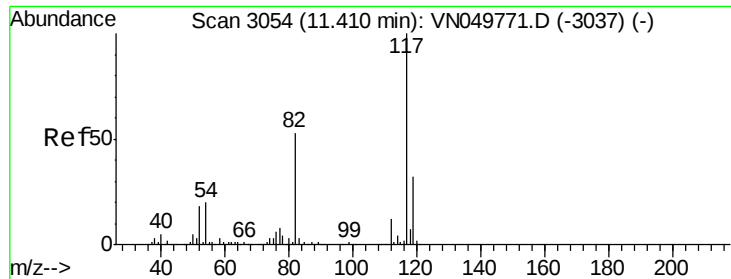
MMDadoda
 7/13/2018 1:35:15 PM



#62
 4-Bromofluorobenzene
 Concen: 49.80 ug/l
 RT: 12.40 min Scan# 3363
 Delta R.T. 0.00 min
 Lab File: VN049776.D
 Acq: 12 Jul 2018 17:31

Tgt Ion	Ratio	Lower	Upper
95	100		
174	90.5	0.0	179.6
176	87.3	0.0	174.0





#63

Chlorobenzene-d5

Concen: 50.00 ug/l

RT: 11.41 min Scan# 3054

Delta R.T. 0.00 min

Lab File: VN049776.D

Acq: 12 Jul 2018 17:31

Instrument :

MSVOA_N

ClientSampleId :

VSTDCCC050

Tot Ion:117 Resp: 1663701

Ion Ratio Lower Upper

117 100

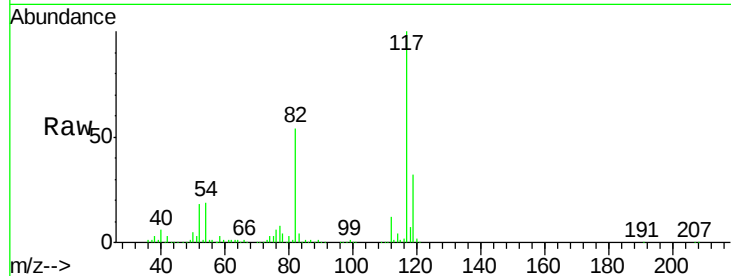
82 53.6 41.9 62.9

119 31.9 25.4 38.2

Manual Integrations
APPROVED

MMDadoda

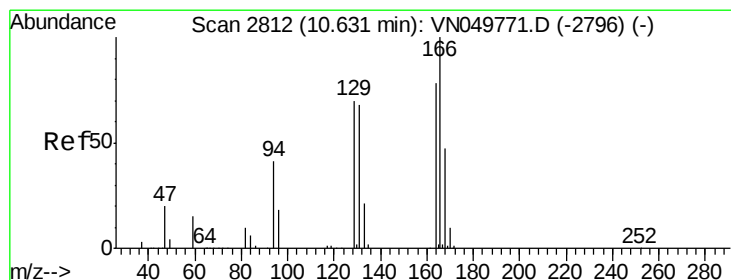
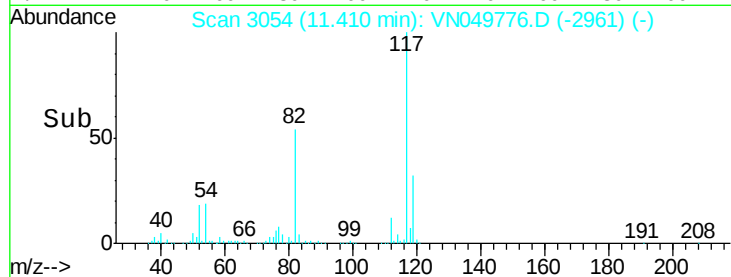
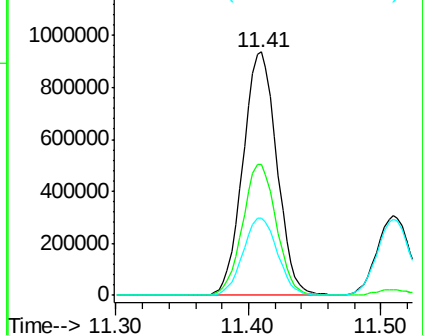
7/13/2018 1:35:15 PM



Abundance Ion 116.90 (116.60 to 117.60): V

Ion 82.00 (81.70 to 82.70): V

Ion 118.90 (118.60 to 119.60): V



#64

Tetrachloroethene

Concen: 46.32 ug/l

RT: 10.63 min Scan# 2812

Delta R.T. 0.00 min

Lab File: VN049776.D

Acq: 12 Jul 2018 17:31

Tgt Ion:164 Resp: 699687

Ion Ratio Lower Upper

164 100

166 127.8 101.8 152.6

129 91.4 72.8 109.2

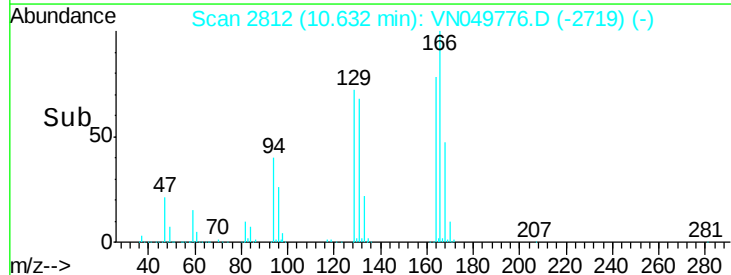
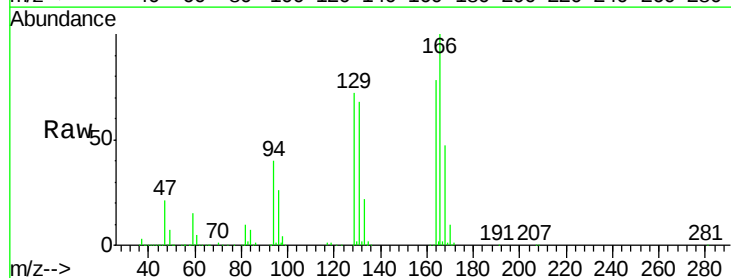
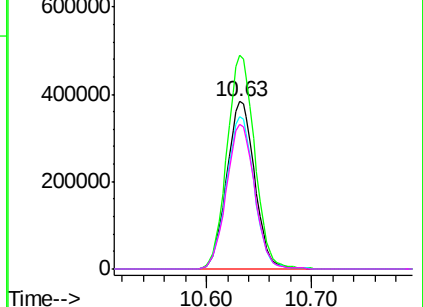
131 86.7 70.0 105.0

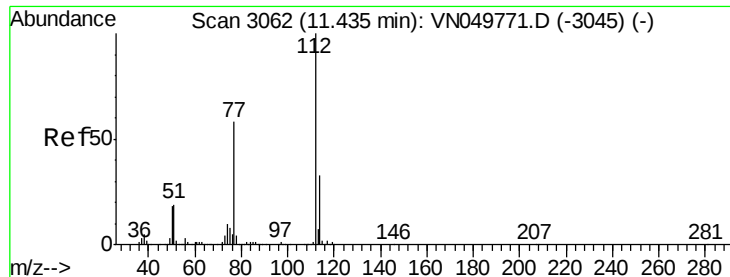
Abundance Ion 163.80 (163.50 to 164.50): V

Ion 165.80 (165.50 to 166.50): V

Ion 128.80 (128.50 to 129.50): V

Ion 130.80 (130.50 to 131.50): V





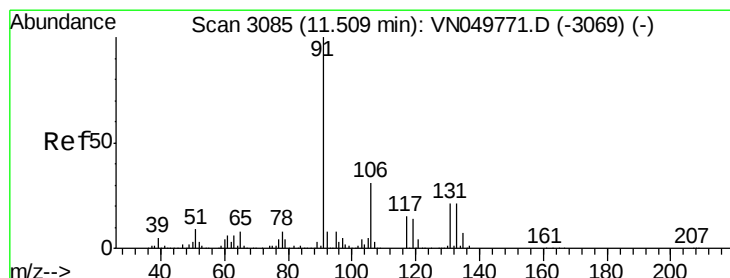
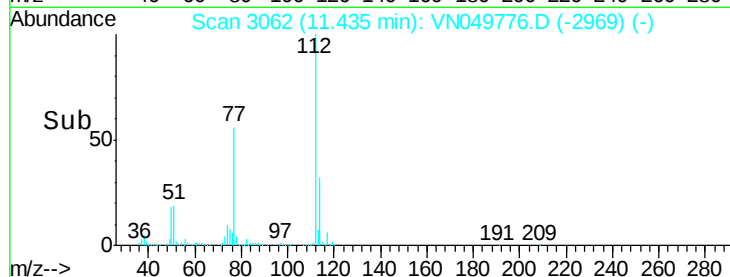
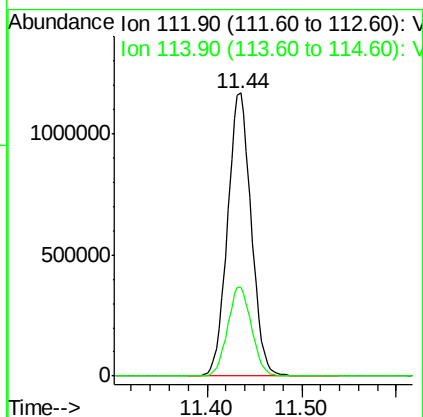
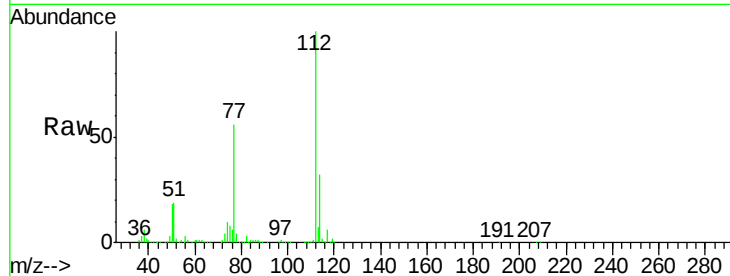
#65
Chlorobenzene
Concen: 46.78 ug/l
RT: 11.44 min Scan# 3062
Delta R.T. 0.00 min
Lab File: VN049776.D
Acq: 12 Jul 2018 17:31

Instrument :
MSVOA_N
ClientSampled :
VSTDCCC050

Tot Ion:112 Resp: 2027457
Ion Ratio Lower Upper
112 100
114 31.5 25.4 38.0

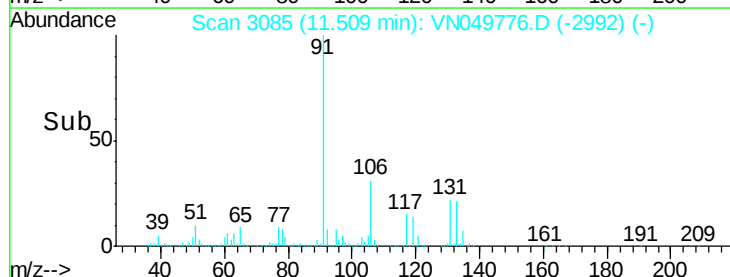
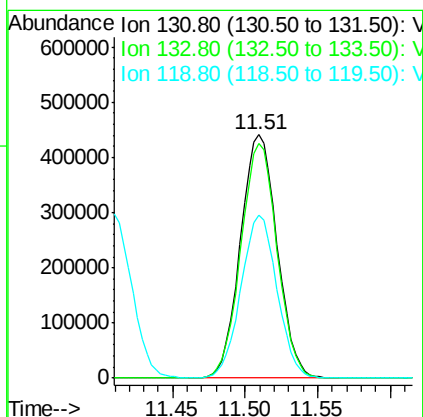
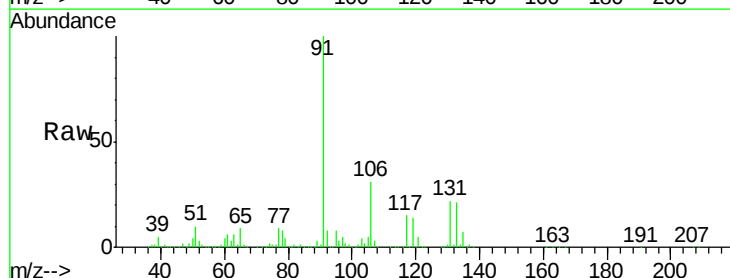
Manual Integrations
APPROVED

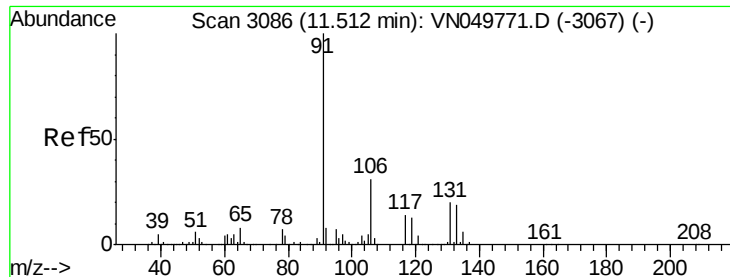
MMDadoda
7/13/2018 1:35:15 PM



#66
1,1,1,2-Tetrachloroethane
Concen: 47.64 ug/l
RT: 11.51 min Scan# 3085
Delta R.T. 0.00 min
Lab File: VN049776.D
Acq: 12 Jul 2018 17:31

Tgt Ion:131 Resp: 776880
Ion Ratio Lower Upper
131 100
133 95.4 47.5 142.6
119 65.9 33.1 99.3





#67

Ethyl Benzene

Concen: 49.22 ug/l

RT: 11.51 min Scan# 3086

Delta R.T. 0.00 min

Lab File: VN049776.D

Acq: 12 Jul 2018 17:31

Instrument :

MSVOA_N

ClientSampleId :

VSTDCCC050

Tot Ion: 91 Resp: 3493096

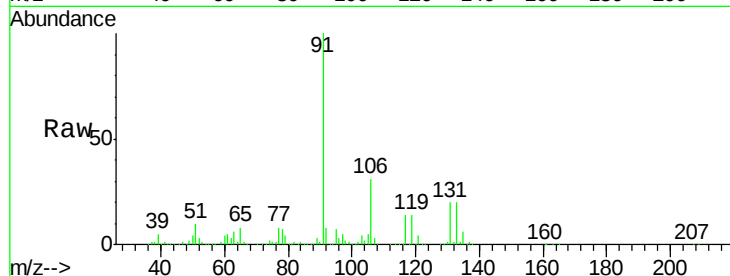
Ion Ratio Lower Upper

91 100

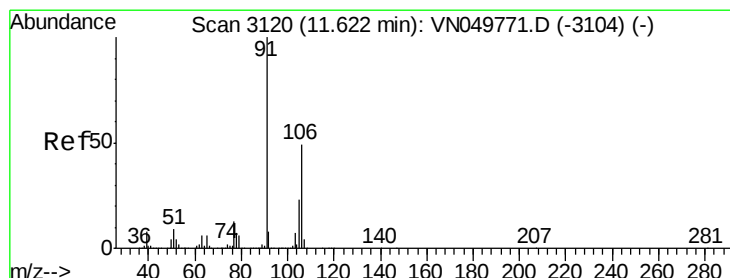
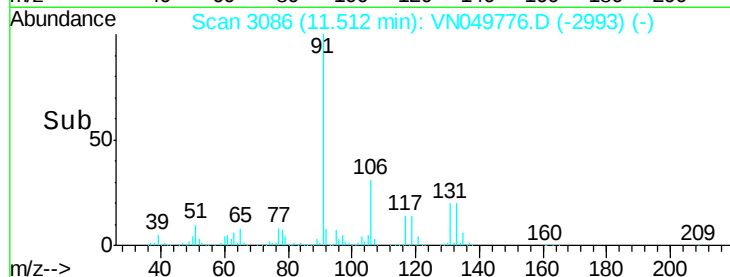
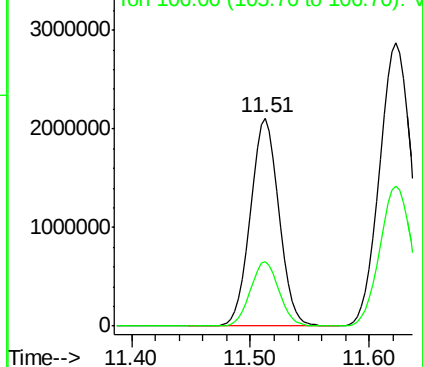
106 31.2 24.8 37.2

Manual Integrations
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Abundance Ion 91.00 (90.70 to 91.70): VN049776.D (-2993) (-)



#68

m/p-Xylenes

Concen: 101.13 ug/l

RT: 11.62 min Scan# 3120

Delta R.T. 0.00 min

Lab File: VN049776.D

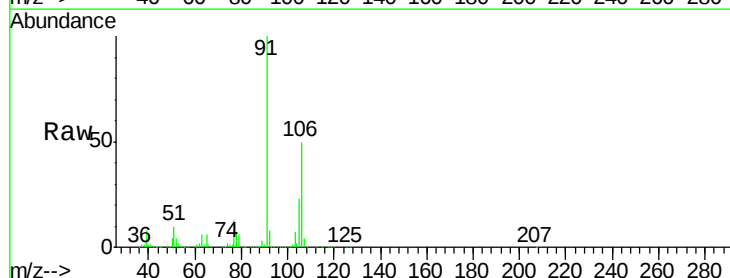
Acq: 12 Jul 2018 17:31

Tgt Ion: 106 Resp: 2693935

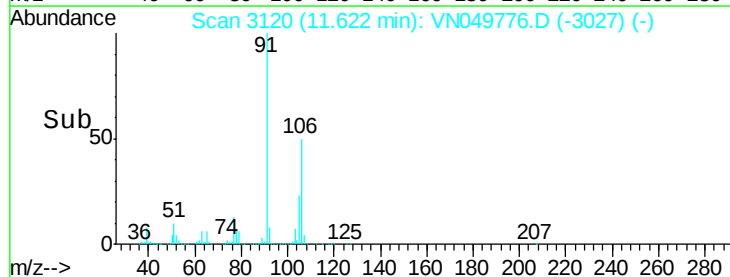
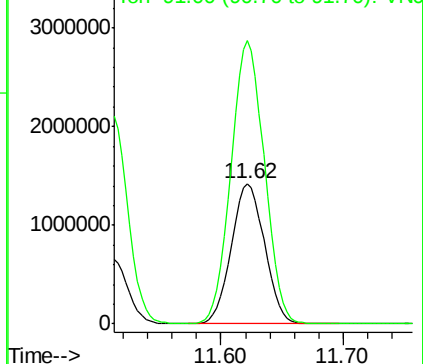
Ion Ratio Lower Upper

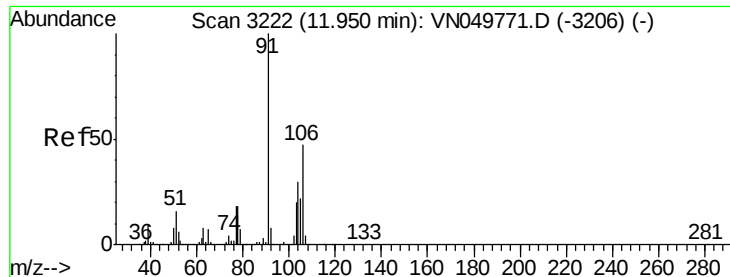
106 100

91 202.5 163.4 245.2



Abundance Ion 106.00 (105.70 to 106.70): VN049776.D (-3027) (-)





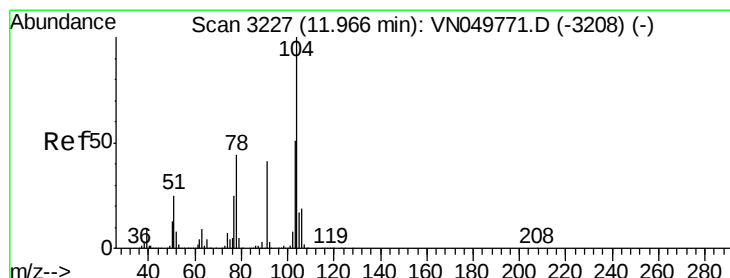
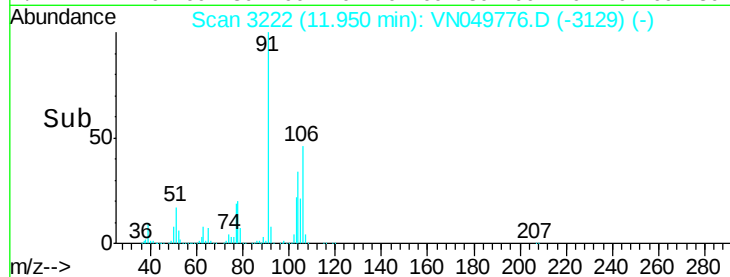
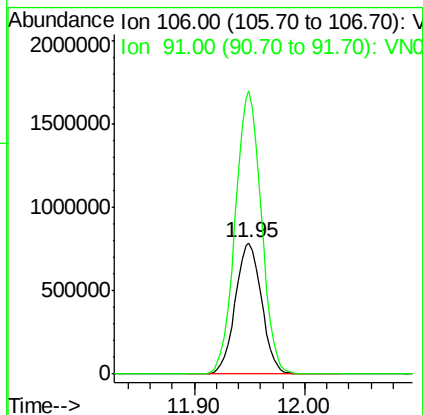
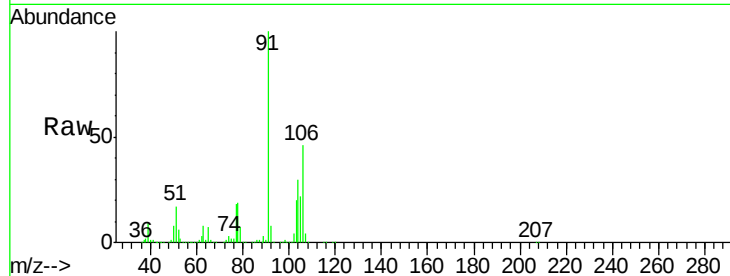
#69
o-Xylene
Concen: 50.43 ug/l
RT: 11.95 min Scan# 3222
Delta R.T. 0.00 min
Lab File: VN049776.D
Acq: 12 Jul 2018 17:31

Instrument :
MSVOA_N
ClientSampleId :
VSTDCCC050

Tot Ion:106 Resp: 1297748
Ion Ratio Lower Upper
106 100
91 213.9 108.7 326.1

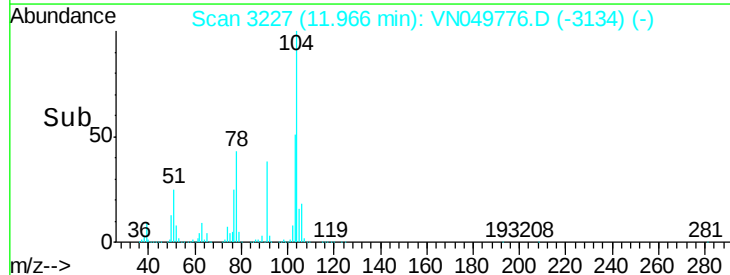
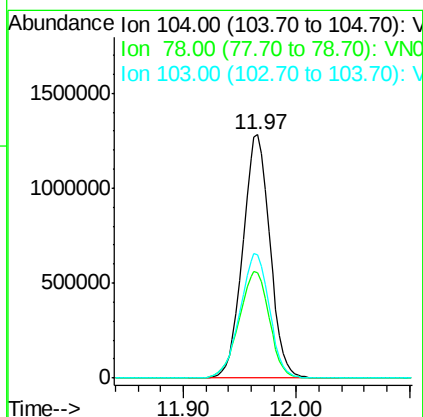
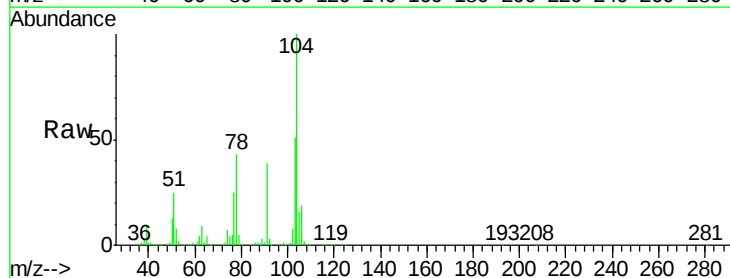
Manual Integrations
APPROVED

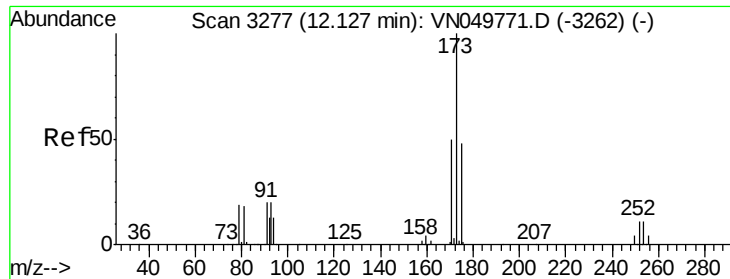
MMDadoda
7/13/2018 1:35:15 PM



#70
Styrene
Concen: 52.33 ug/l
RT: 11.97 min Scan# 3227
Delta R.T. 0.00 min
Lab File: VN049776.D
Acq: 12 Jul 2018 17:31

Tgt Ion:104 Resp: 2139256
Ion Ratio Lower Upper
104 100
78 48.9 39.2 58.8
103 55.7 44.6 67.0





#71

Bromoform

Concen: 48.07 ug/l

RT: 12.13 min Scan# 3277

Delta R.T. 0.00 min

Lab File: VN049776.D

Acq: 12 Jul 2018 17:31

Instrument :

MSVOA_N

ClientSampleId :

VSTDCCC050

Tot Ion:173 Resp: 529678

Ion Ratio Lower Upper

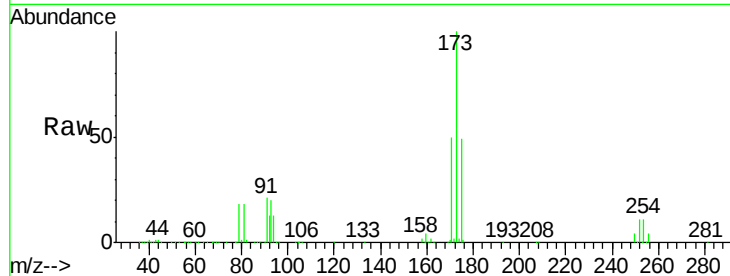
173 100

175 48.9 24.6 73.8

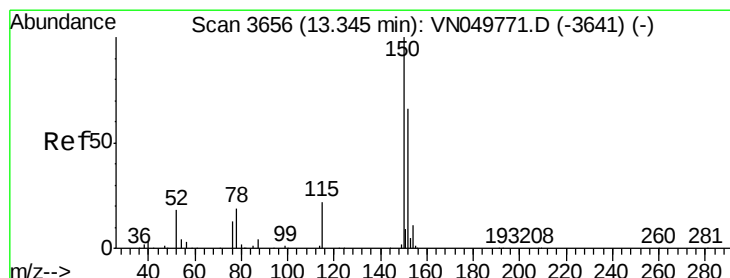
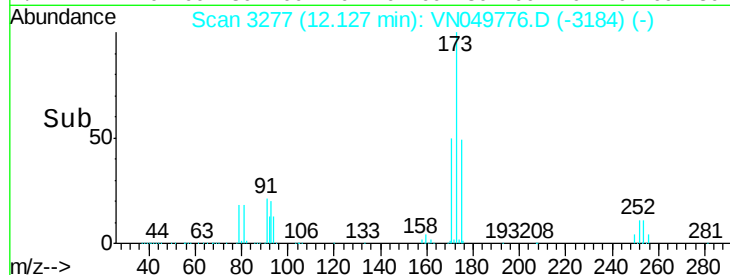
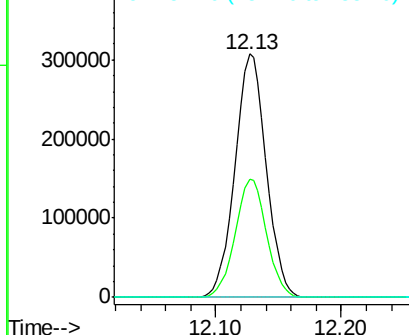
254 0.1 0.2 0.2#

Manual Integrations
APPROVED

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7/13/2018 1:35:15 PM



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



#72

1,4-Dichlorobenzene-d4

Concen: 50.00 ug/l

RT: 13.35 min Scan# 3656

Delta R.T. 0.00 min

Lab File: VN049776.D

Acq: 12 Jul 2018 17:31

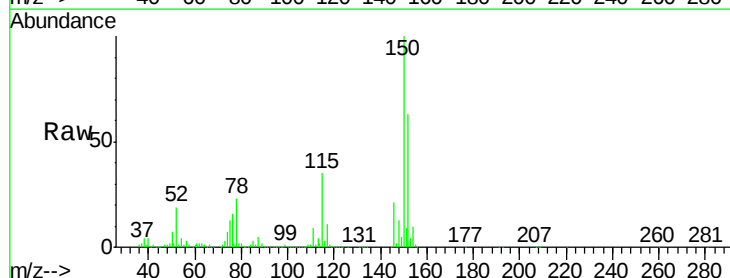
Tgt Ion:152 Resp: 882957

Ion Ratio Lower Upper

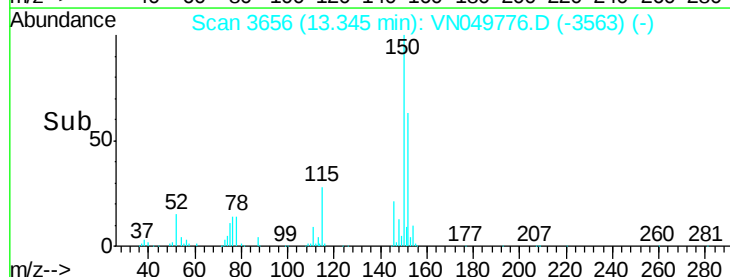
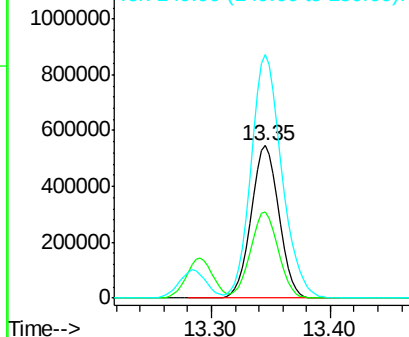
152 100

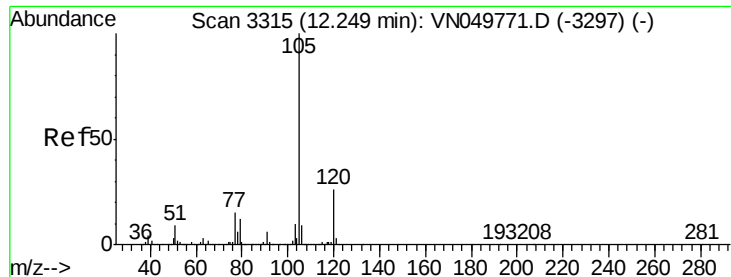
115 56.3 28.1 84.2

150 175.8 0.0 347.6



Abundance Ion 151.90 (151.60 to 152.60): V
Ion 114.90 (114.60 to 115.60): V
Ion 149.90 (149.60 to 150.60): V





#73

Isopropylbenzene

Concen: 48.10 ug/l

RT: 12.25 min Scan# 3315

Delta R.T. 0.00 min

Lab File: VN049776.D

Acq: 12 Jul 2018 17:31

Instrument :

MSVOA_N

ClientSampleId :

VSTDCCC050

Tot Ion:105 Resp: 3529822

Ion Ratio Lower Upper

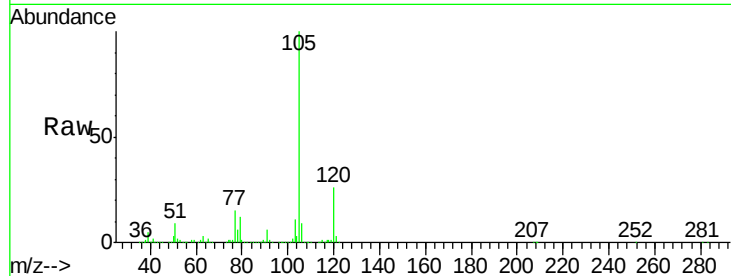
105 100

120 26.3 13.3 39.8

Manual Integrations
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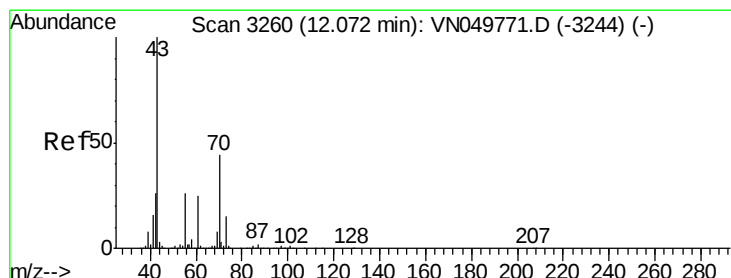
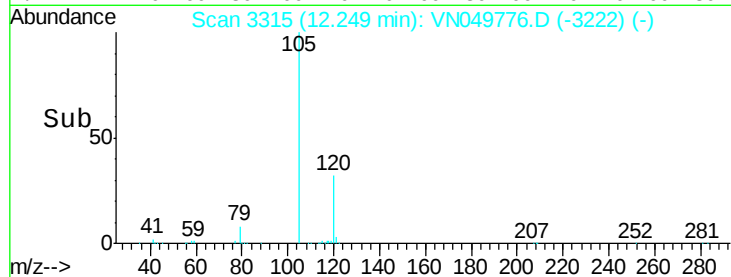
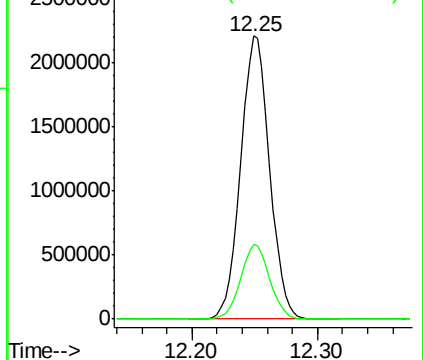
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Abundance Ion 105.00 (104.70 to 105.70): V

Ion 120.00 (119.70 to 120.70): V



#74

N-ethyl acetate

Concen: 48.20 ug/l

RT: 12.07 min Scan# 3259

Delta R.T. -0.00 min

Lab File: VN049776.D

Acq: 12 Jul 2018 17:31

Tgt Ion: 43 Resp: 920098

Ion Ratio Lower Upper

43 100

70 43.6 34.8 52.2

55 25.7 20.9 31.3

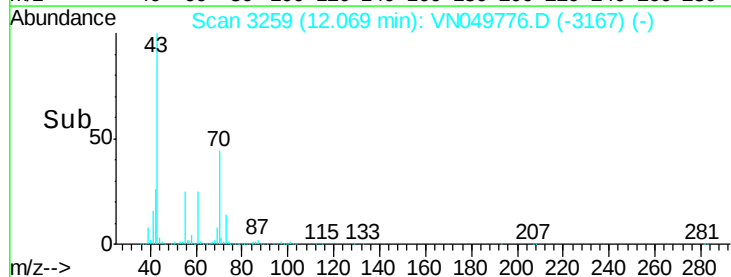
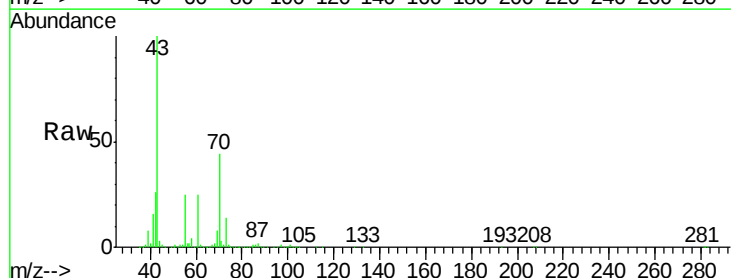
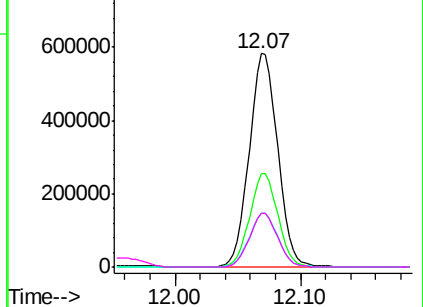
61 25.1 19.9 29.9

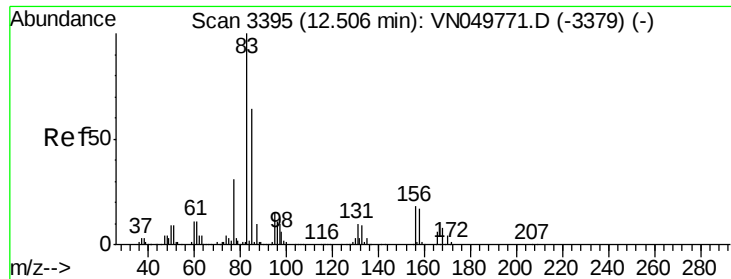
Abundance Ion 43.00 (42.70 to 43.70): V

Ion 70.00 (69.70 to 70.70): V

Ion 55.00 (54.70 to 55.70): V

Ion 61.00 (60.70 to 61.70): V





#75

1,1,2,2-Tetrachloroethane

Concen: 48.92 ug/l

RT: 12.51 min Scan# 3395

Delta R.T. 0.00 min

Lab File: VN049776.D

Acq: 12 Jul 2018 17:31

Instrument :

MSVOA_N

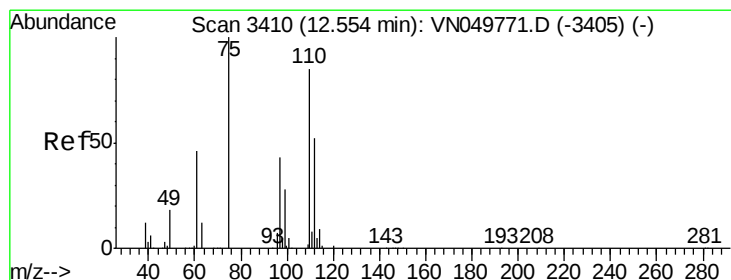
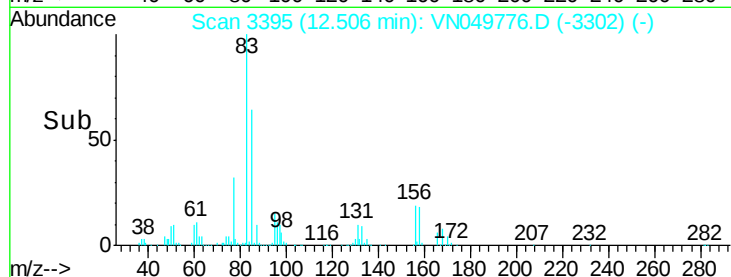
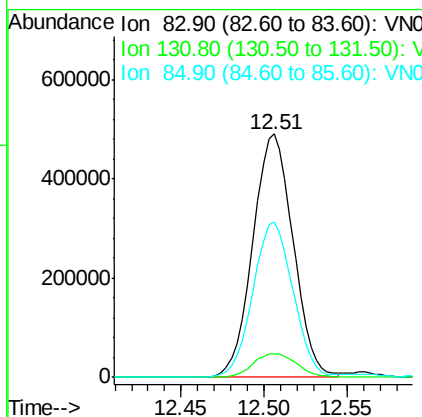
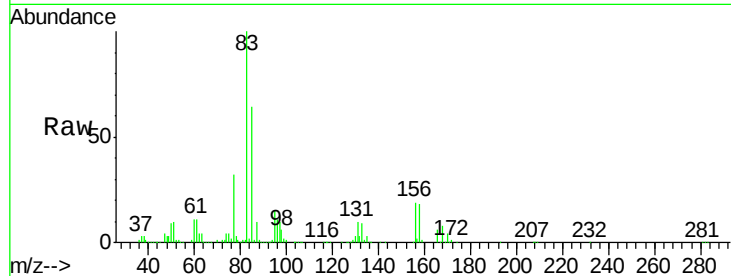
ClientSampleId :

VSTDCCC050

Tot Ion:	83	Resp:	827900
Ion Ratio	Lower	Upper	
83	100		
131	10.6	5.2	15.6
85	63.7	32.5	97.4

Manual Integrations
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#76

1,2,3-Trichloropropane

Concen: 46.98 ug/l m

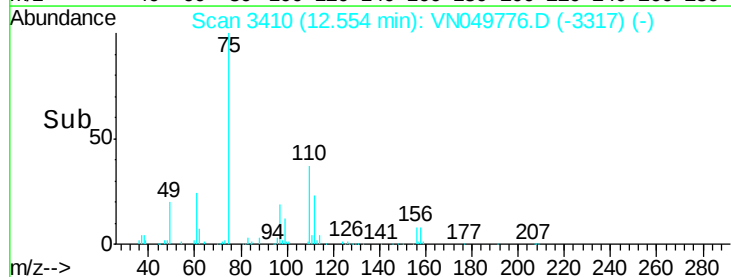
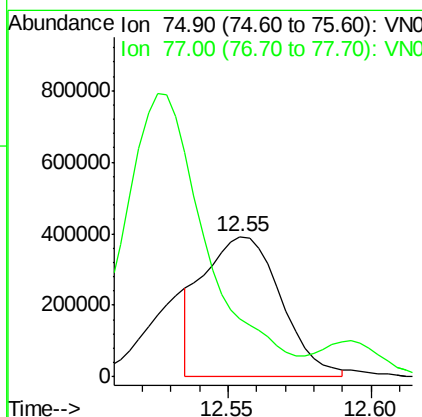
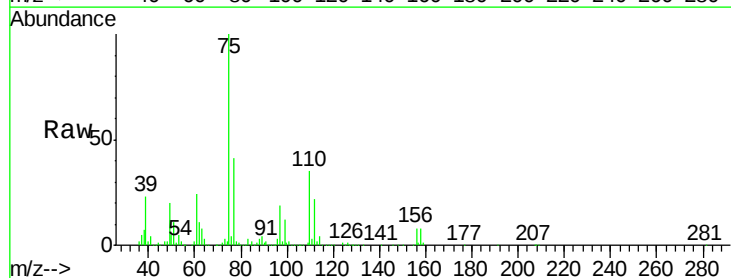
RT: 12.55 min Scan# 3410

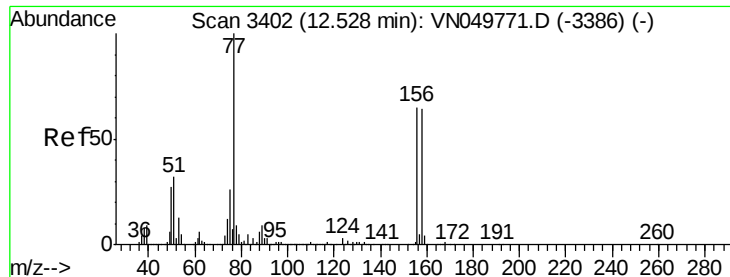
Delta R.T. 0.00 min

Lab File: VN049776.D

Acq: 12 Jul 2018 17:31

Tgt Ion:	75	Resp:	736845
Ion Ratio	Lower	Upper	
75	100		
77	0.0	0.0	0.0





#77

Bromobenzene

Concen: 45.52 ug/l

RT: 12.53 min Scan# 3401

Delta R.T. -0.00 min

Lab File: VN049776.D

Acq: 12 Jul 2018 17:31

Instrument :

MSVOA_N

ClientSampleId :

VSTDCCC050

Tot Ion:156 Resp: 886025

Ion Ratio Lower Upper

156 100

77 178.8 90.2 270.6

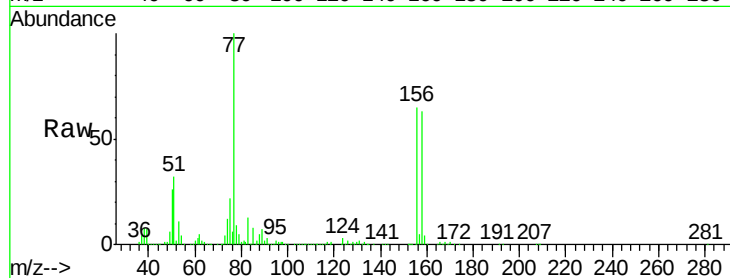
158 97.8 49.1 147.3

Manual Integrations

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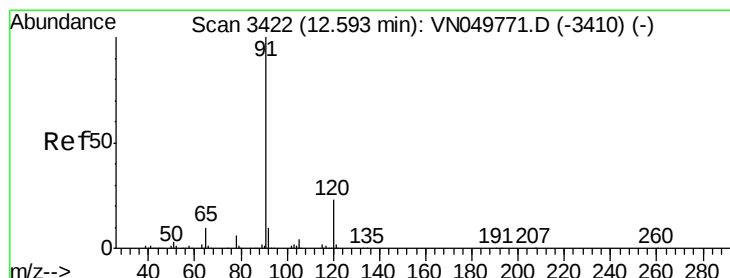
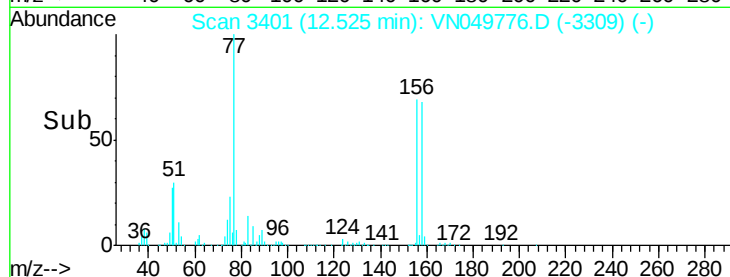
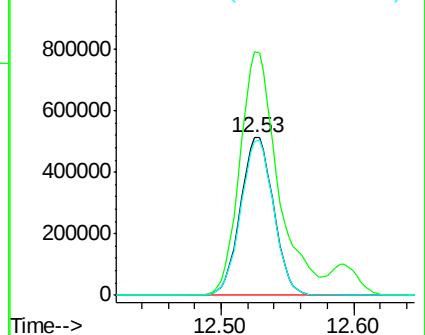
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Abundance Ion 155.80 (155.50 to 156.50): V

Ion 77.00 (76.70 to 77.70): VN0

Ion 157.80 (157.50 to 158.50): V



#78

n-propylbenzene

Concen: 48.97 ug/l

RT: 12.59 min Scan# 3422

Delta R.T. 0.00 min

Lab File: VN049776.D

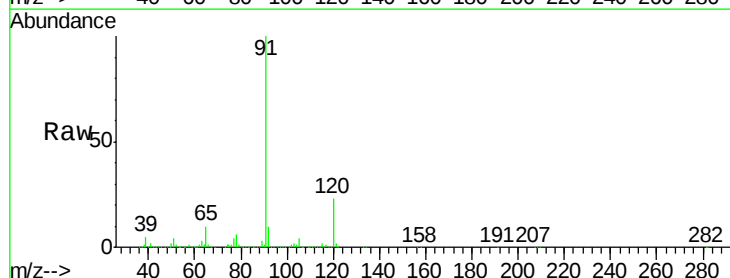
Acq: 12 Jul 2018 17:31

Tgt Ion: 91 Resp: 4051379

Ion Ratio Lower Upper

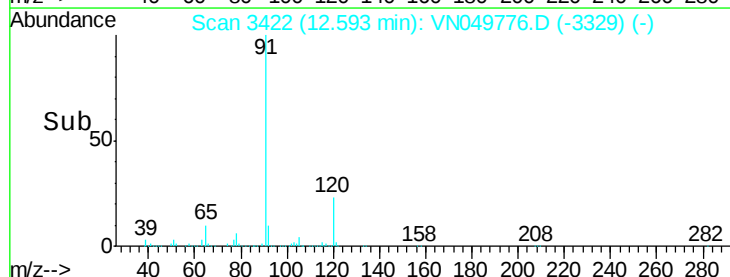
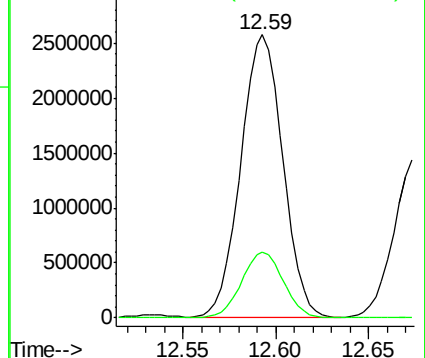
91 100

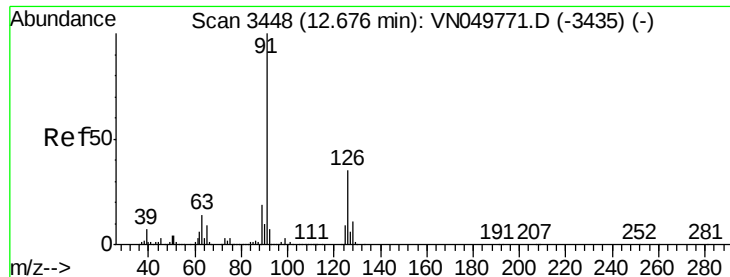
120 23.2 11.5 34.4



Abundance Ion 91.00 (90.70 to 91.70): VN0

Ion 120.00 (119.70 to 120.70): V





#79

2-Chlorotoluene

Concen: 47.32 ug/l

RT: 12.68 min Scan# 3448

Delta R.T. 0.00 min

Lab File: VN049776.D

Acq: 12 Jul 2018 17:31

Instrument :

MSVOA_N

ClientSampleId :

VSTDCCC050

Tot Ion: 91 Resp: 2395923

Ion Ratio Lower Upper

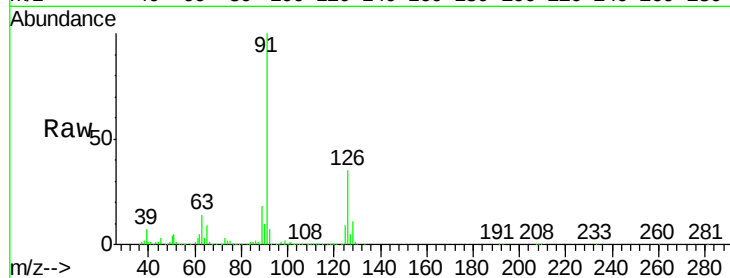
91 100

126 35.1 17.5 52.5

Manual Integrations
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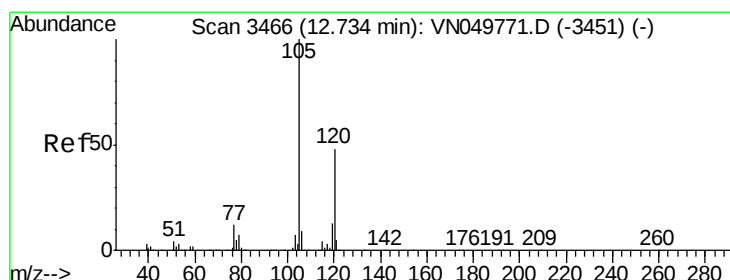
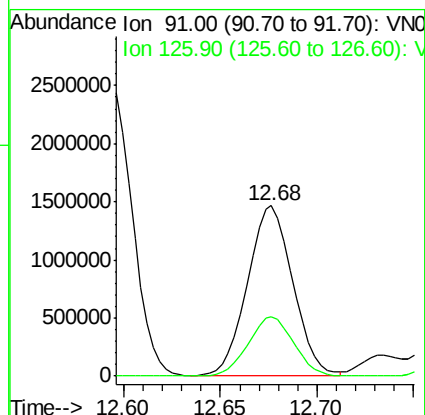
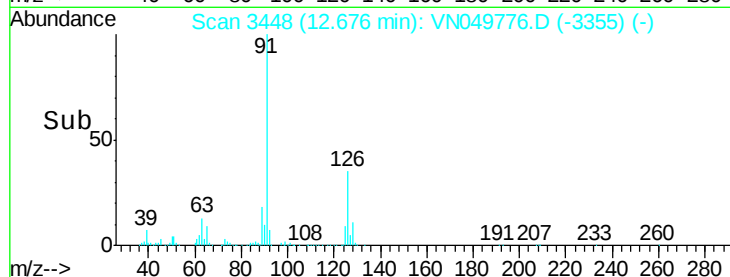
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Abundance Ion 91.00 (90.70 to 91.70): VN049776.D (-3355) (-)

Ion 125.90 (125.60 to 126.60): VN049776.D (-3355) (-)



#80

1,3,5-Trimethylbenzene

Concen: 49.05 ug/l

RT: 12.73 min Scan# 3466

Delta R.T. 0.00 min

Lab File: VN049776.D

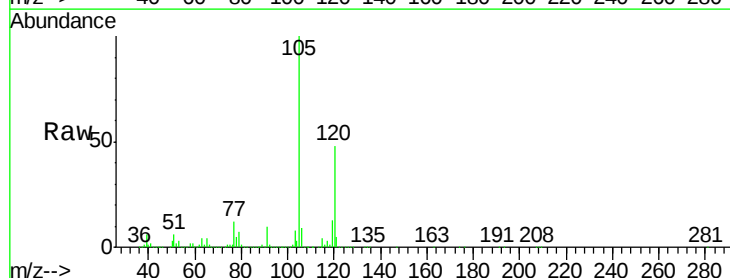
Acq: 12 Jul 2018 17:31

Tgt Ion: 105 Resp: 2860252

Ion Ratio Lower Upper

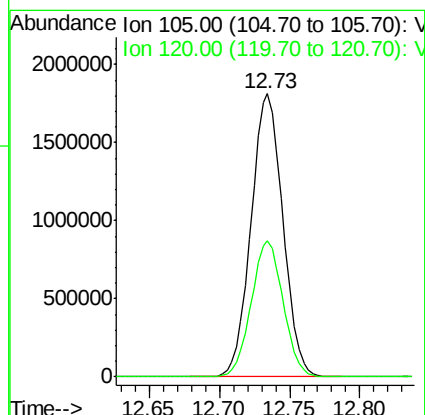
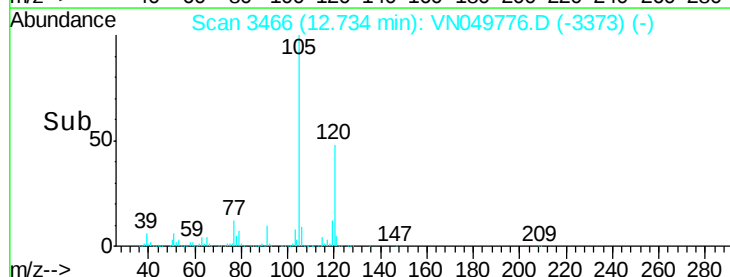
105 100

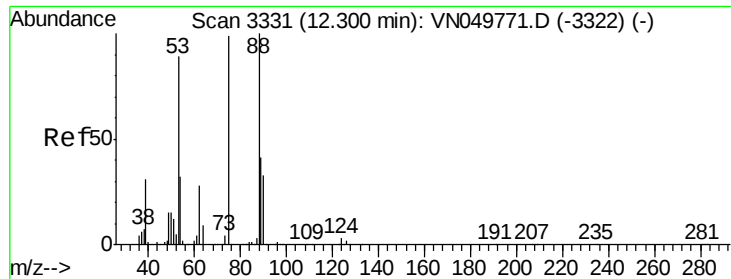
120 48.1 24.3 72.8



Abundance Ion 105.00 (104.70 to 105.70): VN049776.D (-3373) (-)

Ion 120.00 (119.70 to 120.70): VN049776.D (-3373) (-)





#81

trans-1,4-Dichloro-2-butene

Concen: 48.11 ug/l

RT: 12.30 min Scan# 3331

Delta R.T. 0.00 min

Lab File: VN049776.D

Acq: 12 Jul 2018 17:31

Instrument :

MSVOA_N

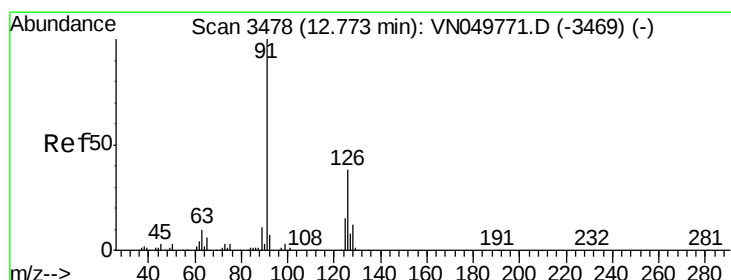
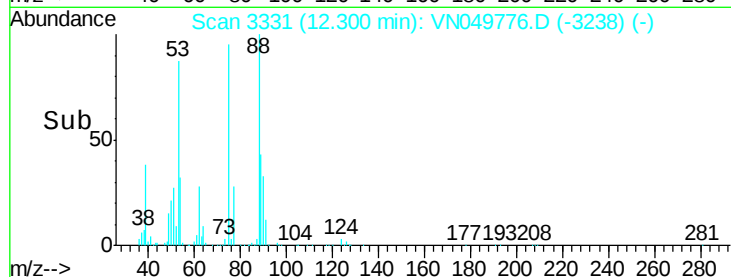
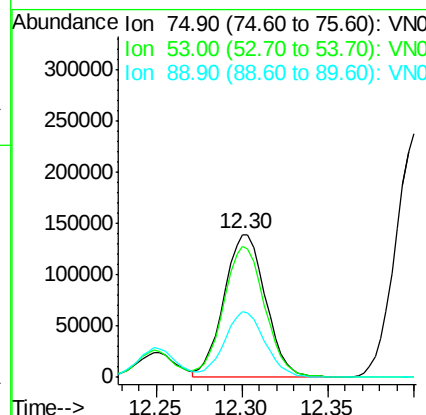
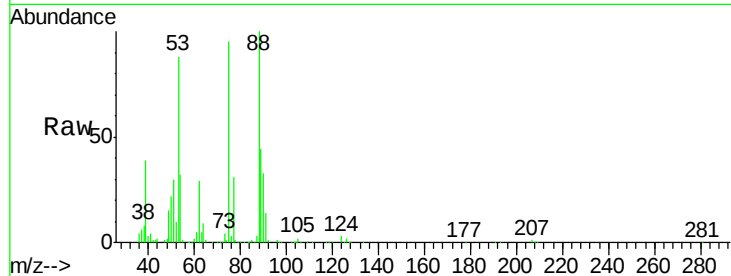
ClientSampleId :

VSTDCCC050

Tot Ion:	75	Resp:	233664
Ion	Ratio	Lower	Upper
75	100		
53	91.4	73.9	110.9
89	45.0	35.9	53.9

Manual Integrations
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#82

4-Chlorotoluene

Concen: 48.50 ug/l

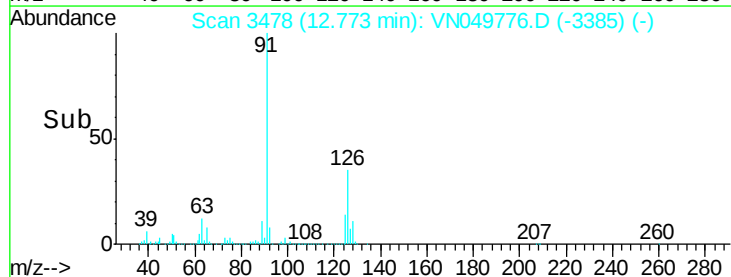
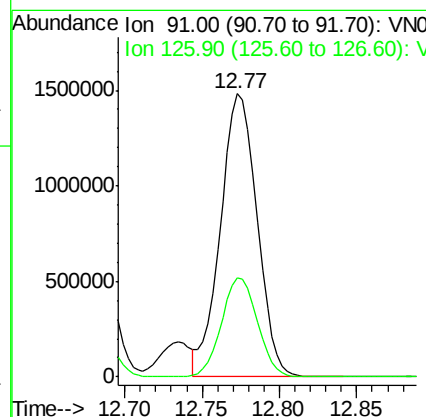
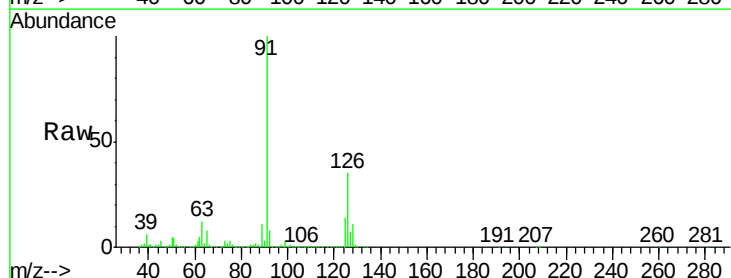
RT: 12.77 min Scan# 3478

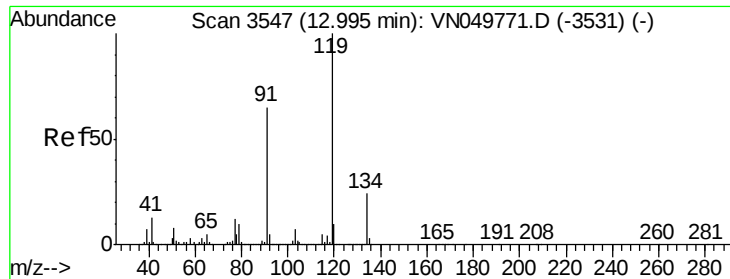
Delta R.T. 0.00 min

Lab File: VN049776.D

Acq: 12 Jul 2018 17:31

Tgt Ion:	91	Resp:	2435756
Ion	Ratio	Lower	Upper
91	100		
126	34.4	17.2	51.6





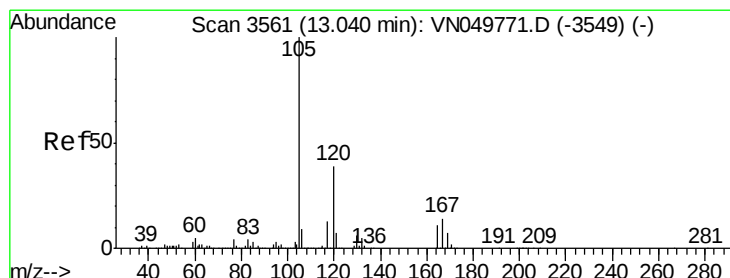
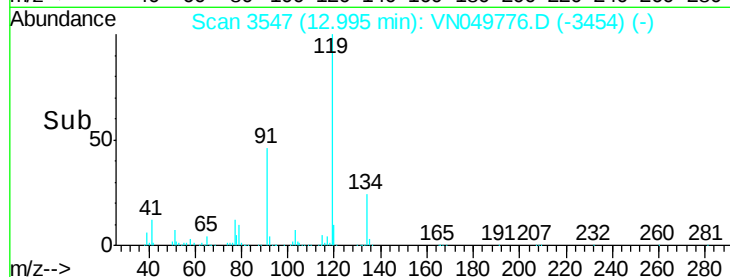
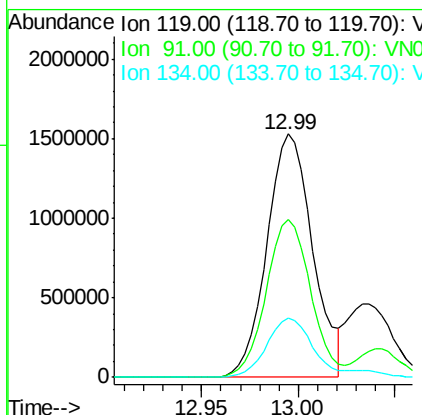
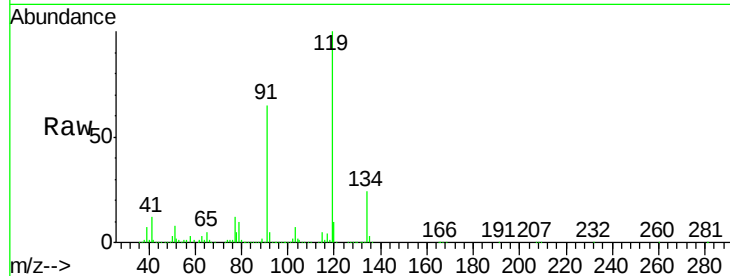
#83
tert-Butylbenzene
Concen: 48.28 ug/l
RT: 12.99 min Scan# 3547
Delta R.T. 0.00 min
Lab File: VN049776.D
Acq: 12 Jul 2018 17:31

Instrument :
MSVOA_N
ClientSampleId :
VSTDCCC050

Tot Ion	Ratio	Lower	Upper
119	100		
91	63.2	32.0	96.2
134	24.1	12.8	38.4

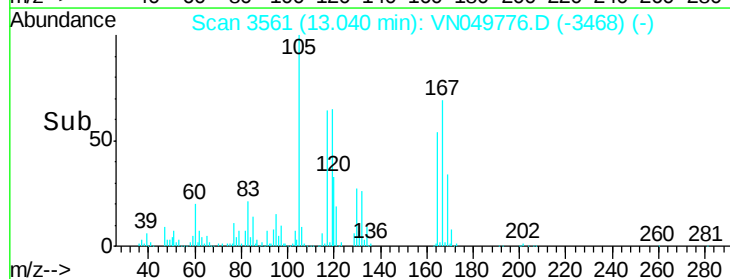
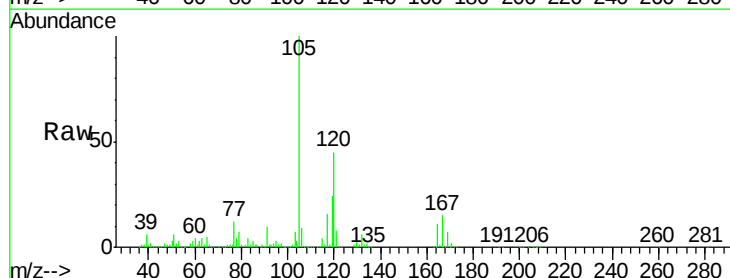
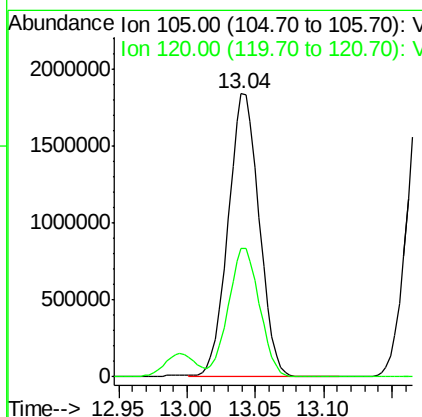
Manual Integrations
APPROVED

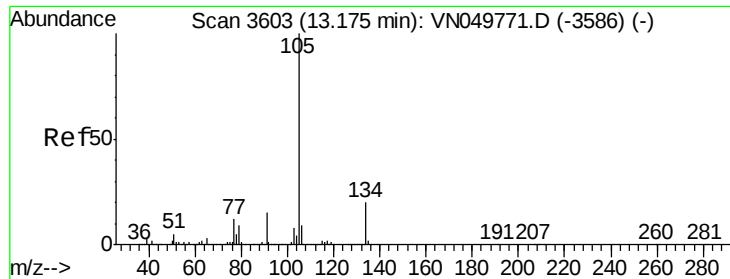
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#84
1,2,4-Trimethylbenzene
Concen: 49.88 ug/l
RT: 13.04 min Scan# 3561
Delta R.T. 0.00 min
Lab File: VN049776.D
Acq: 12 Jul 2018 17:31

Tgt Ion	Ratio	Lower	Upper
105	100		
120	45.5	22.7	68.1





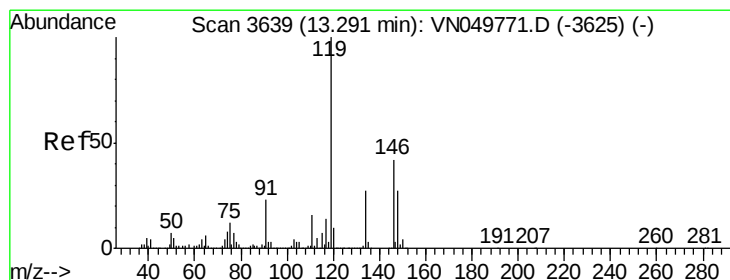
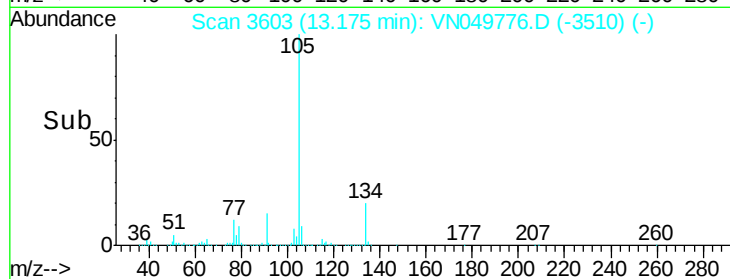
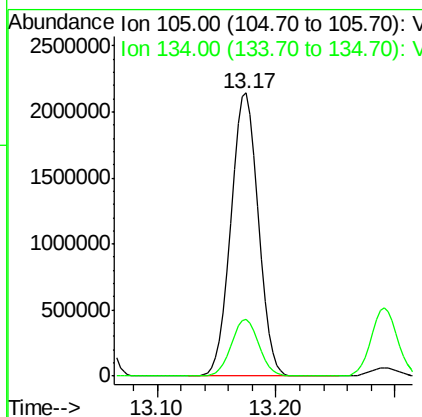
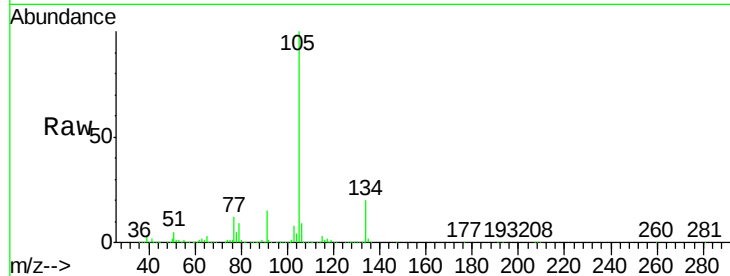
#85
 sec-Butylbenzene
 Concen: 49.93 ug/l
 RT: 13.17 min Scan# 3603
 Delta R.T. 0.00 min
 Lab File: VN049776.D
 Acq: 12 Jul 2018 17:31

Instrument :
 MSVOA_N
 ClientSampleId :
 VSTDCCC050

Tot Ion:105 Resp: 3414408
 Ion Ratio Lower Upper
 105 100
 134 20.1 10.1 30.1

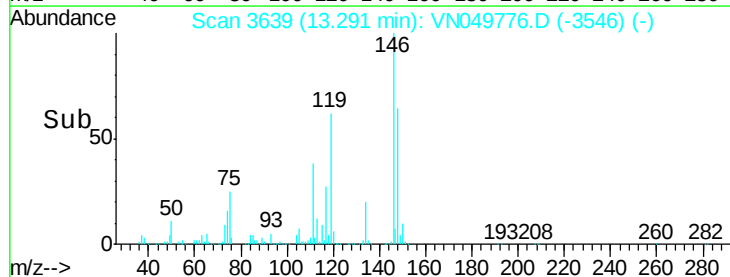
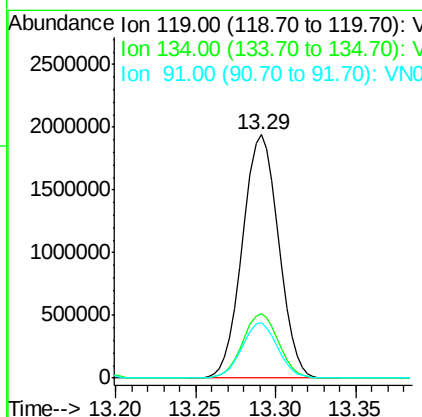
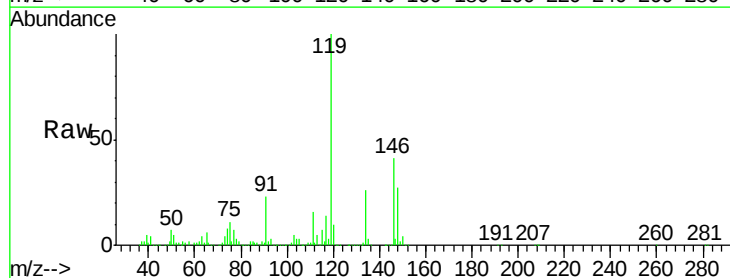
Manual Integrations
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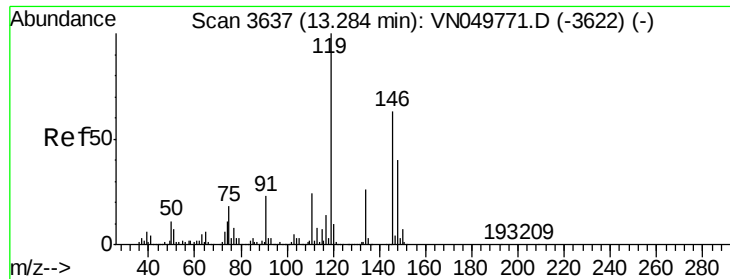
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 7/13/2018 1:35:15 PM



#86
 p-Isopropyltoluene
 Concen: 51.50 ug/l
 RT: 13.29 min Scan# 3639
 Delta R.T. 0.00 min
 Lab File: VN049776.D
 Acq: 12 Jul 2018 17:31

Tgt Ion:119 Resp: 2979948
 Ion Ratio Lower Upper
 119 100
 134 26.4 13.3 39.9
 91 22.3 11.4 34.1





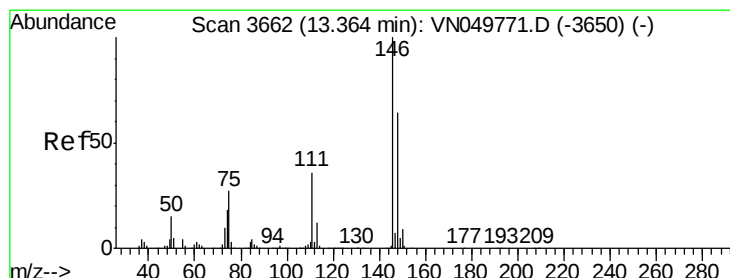
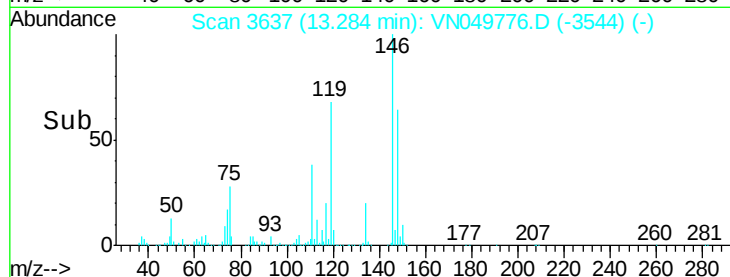
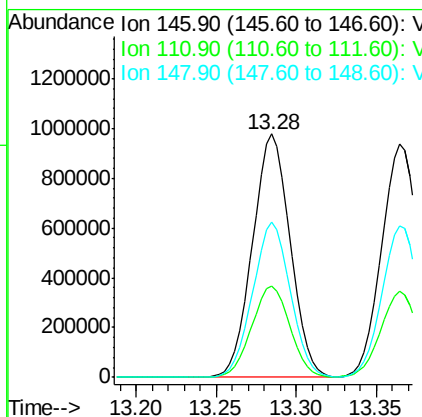
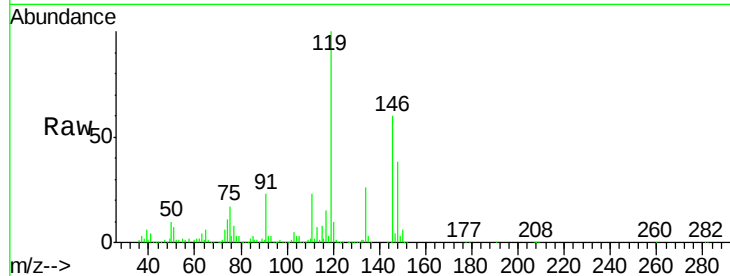
#87
 1,3-Dichlorobenzene
 Concen: 46.82 ug/l
 RT: 13.28 min Scan# 3637
 Delta R.T. 0.00 min
 Lab File: VN049776.D
 Acq: 12 Jul 2018 17:31

Instrument :
 MSVOA_N
 ClientSampleId :
 VSTDCCC050

Tot Ion:146 Resp: 1580306
 Ion Ratio Lower Upper
 146 100
 111 38.2 19.0 57.0
 148 63.7 32.5 97.5

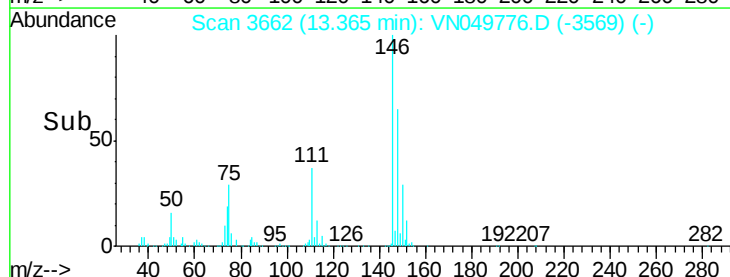
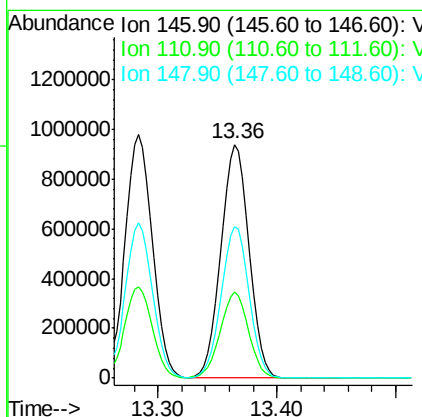
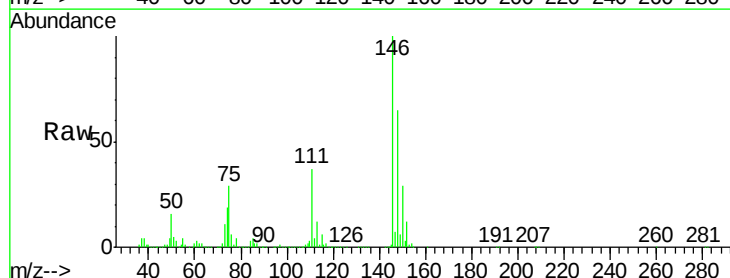
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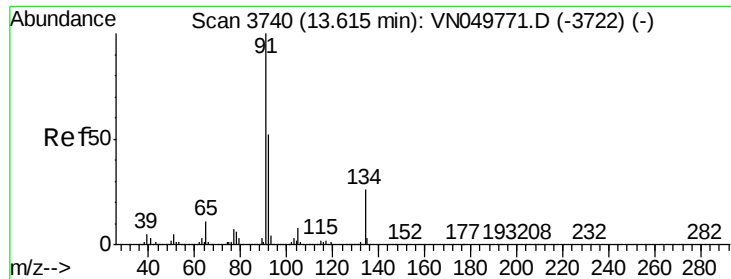
MMDadoda
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#88
 1,4-Dichlorobenzene
 Concen: 46.78 ug/l
 RT: 13.36 min Scan# 3662
 Delta R.T. 0.00 min
 Lab File: VN049776.D
 Acq: 12 Jul 2018 17:31

Tgt Ion:146 Resp: 1534933
 Ion Ratio Lower Upper
 146 100
 111 36.9 18.9 56.5
 148 64.4 32.1 96.3





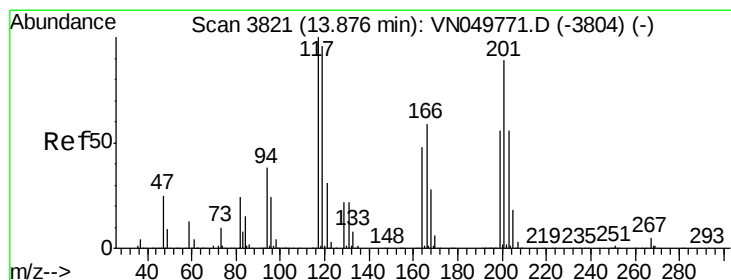
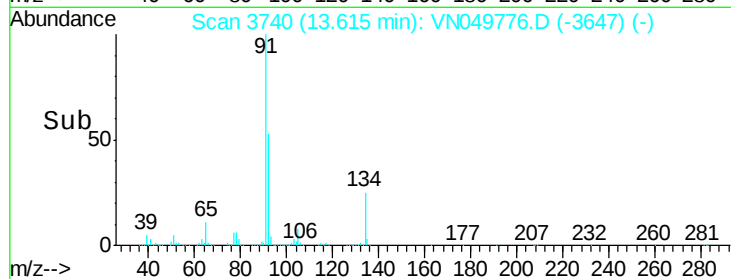
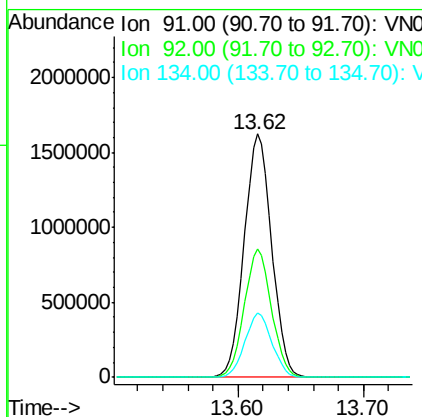
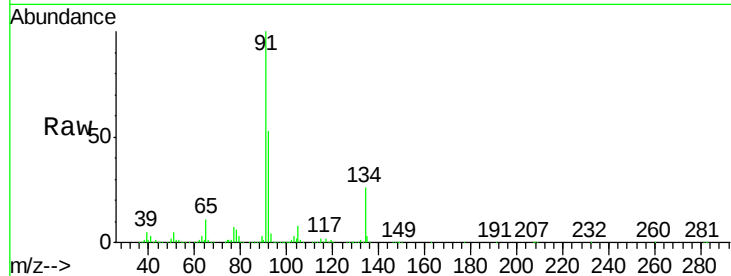
#89
n-Butylbenzene
Concen: 51.78 ug/l
RT: 13.62 min Scan# 3740
Delta R.T. 0.00 min
Lab File: VN049776.D
Acq: 12 Jul 2018 17:31

Instrument :
MSVOA_N
ClientSampleId :
VSTDCCC050

Tot Ion	Ratio	Lower	Upper
91	100		
92	51.9	25.8	77.3
134	26.0	13.0	38.9

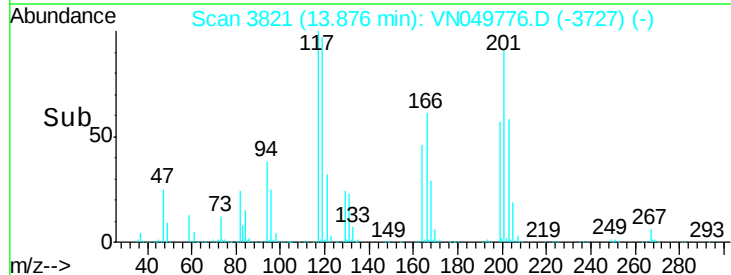
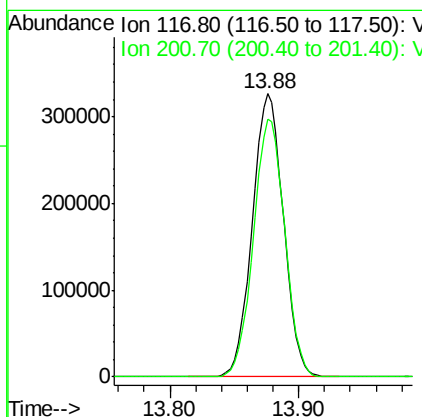
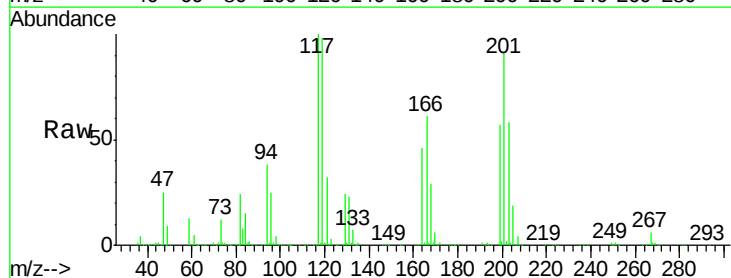
Manual Integrations
APPROVED

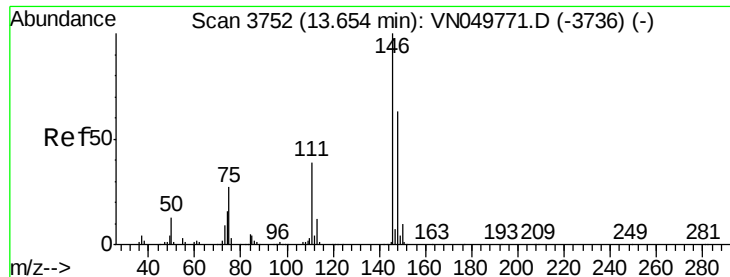
MMDadoda
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#90
Hexachloroethane
Concen: 48.91 ug/l
RT: 13.88 min Scan# 3821
Delta R.T. 0.00 min
Lab File: VN049776.D
Acq: 12 Jul 2018 17:31

Tgt Ion	Ratio	Lower	Upper
117	100		
201	91.7	45.3	135.8





#91

1,2-Dichlorobenzene

Concen: 46.18 ug/l

RT: 13.65 min Scan# 3752

Delta R.T. 0.00 min

Lab File: VN049776.D

Acq: 12 Jul 2018 17:31

Instrument :

MSVOA_N

ClientSampleId :

VSTDCCC050

Tot Ion:146 Resp: 1521173

Ion Ratio Lower Upper

146 100

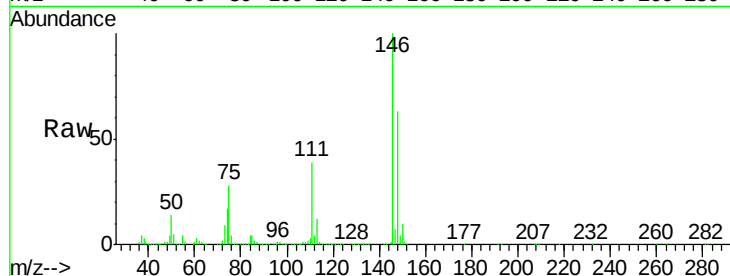
111 38.9 19.7 59.1

148 63.7 32.0 96.2

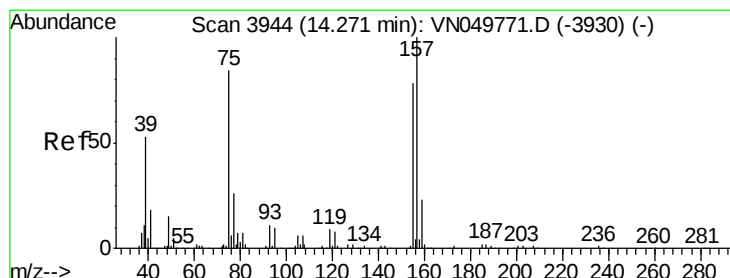
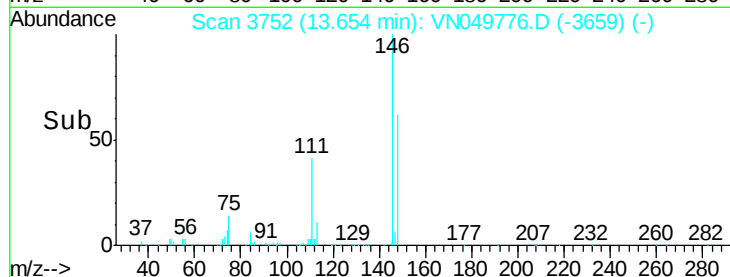
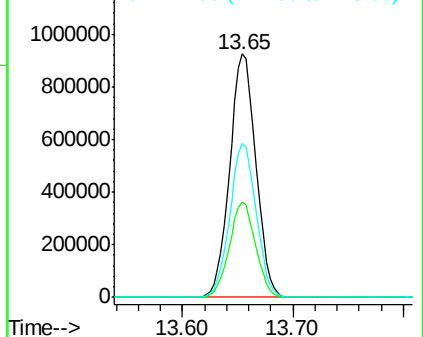
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Abundance Ion 145.90 (145.60 to 146.60): V
Ion 110.90 (110.60 to 111.60): V
Ion 147.90 (147.60 to 148.60): V



#92

1,2-Dibromo-3-Chloropropane

Concen: 45.13 ug/l

RT: 14.27 min Scan# 3944

Delta R.T. 0.00 min

Lab File: VN049776.D

Acq: 12 Jul 2018 17:31

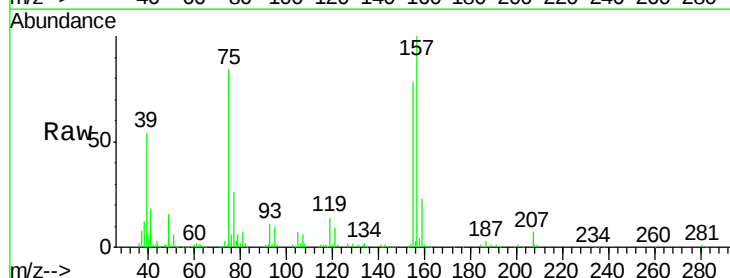
Tgt Ion: 75 Resp: 117175

Ion Ratio Lower Upper

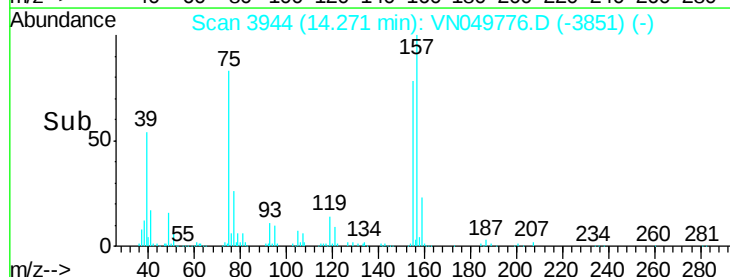
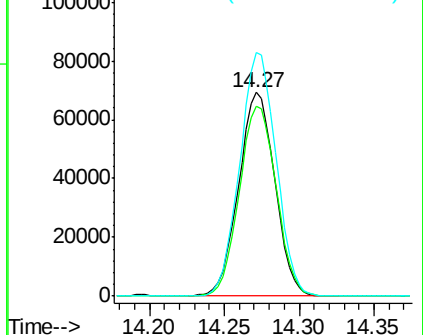
75 100

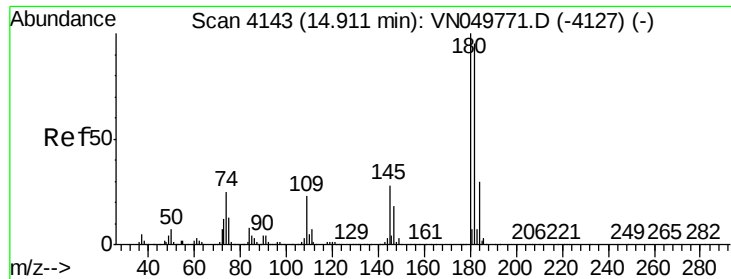
155 94.6 45.7 137.1

157 119.7 56.9 170.7



Abundance Ion 74.90 (74.60 to 75.60): V
Ion 154.80 (154.50 to 155.50): V
Ion 156.80 (156.50 to 157.50): V





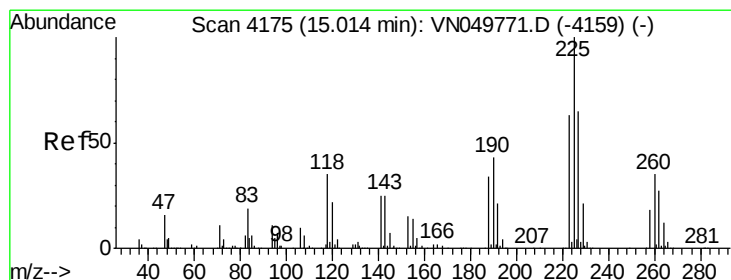
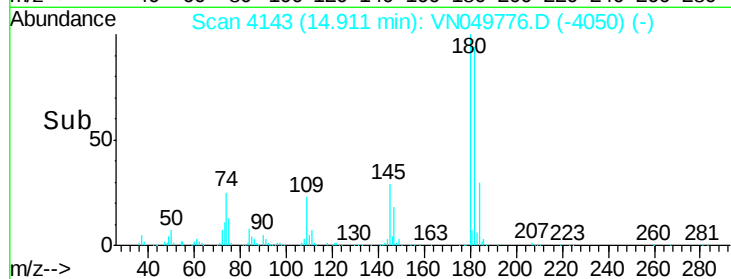
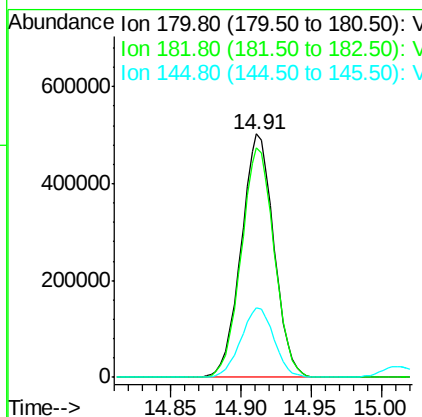
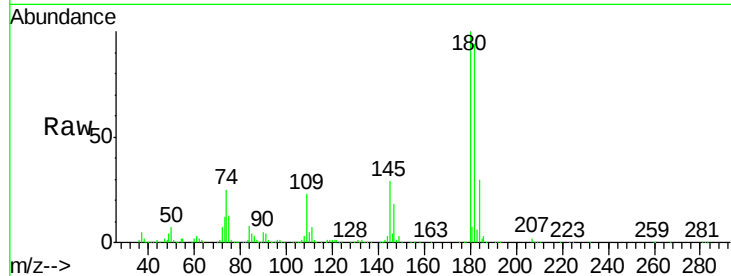
#93
 1,2,4-Trichlorobenzene
 Concen: 45.32 ug/l
 RT: 14.91 min Scan# 4143
 Delta R.T. 0.00 min
 Lab File: VN049776.D
 Acq: 12 Jul 2018 17:31

Instrument :
 MSVOA_N
 ClientSampleId :
 VSTDCCC050

Tot Ion	Ratio	Lower	Upper
180	100		
182	95.0	47.3	141.9
145	29.1	14.4	43.0

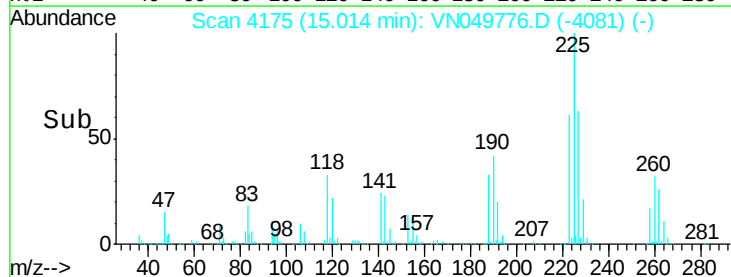
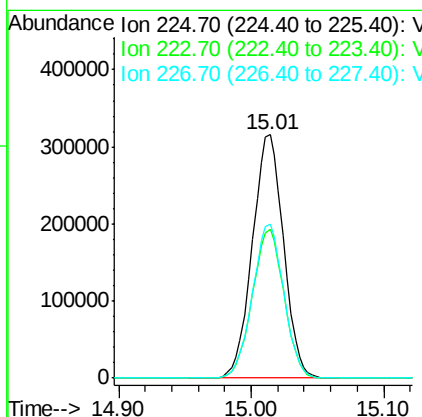
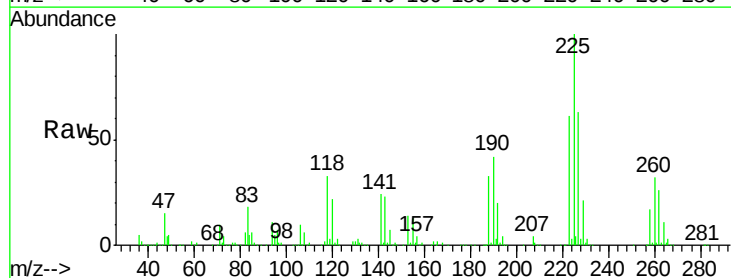
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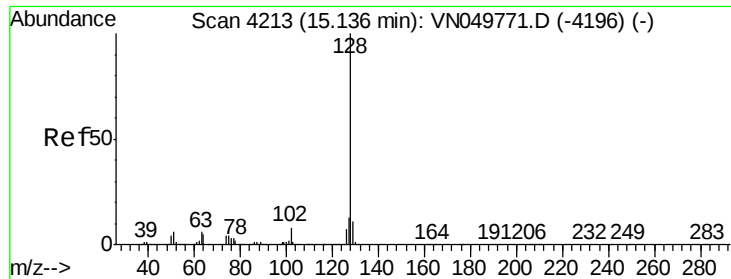
MMDadoda
 7/13/2018 1:35:15 PM



#94
 Hexachlorobutadiene
 Concen: 51.09 ug/l
 RT: 15.01 min Scan# 4175
 Delta R.T. 0.00 min
 Lab File: VN049776.D
 Acq: 12 Jul 2018 17:31

Tgt Ion	Ratio	Lower	Upper
225	100		
223	62.2	30.9	92.7
227	63.6	31.8	95.4





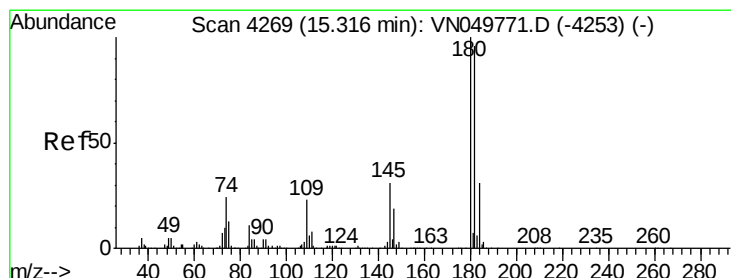
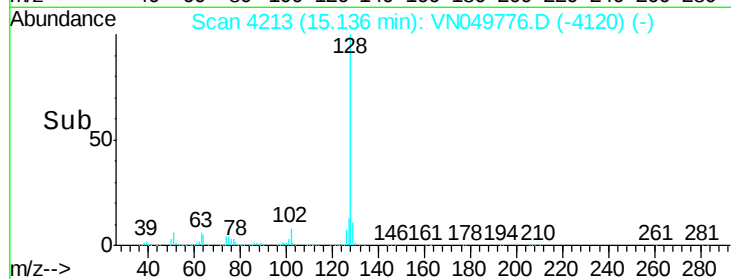
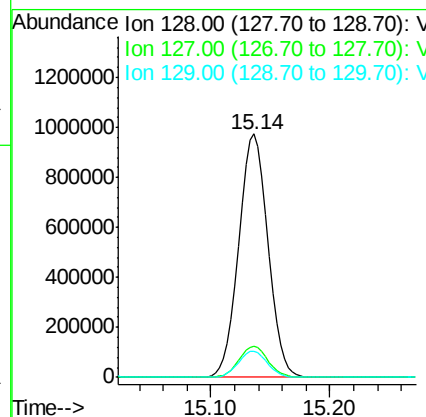
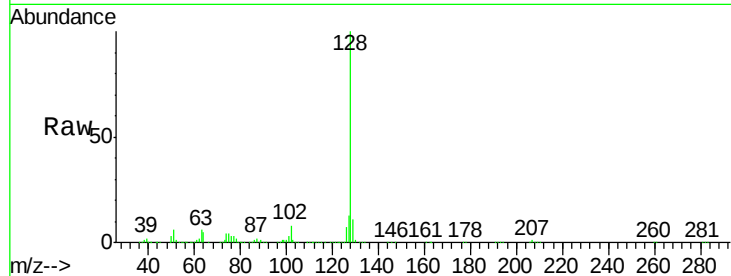
#95
Naphthalene
Concen: 43.04 ug/l
RT: 15.14 min Scan# 4213
Delta R.T. 0.00 min
Lab File: VN049776.D
Acq: 12 Jul 2018 17:31

Instrument :
MSVOA_N
ClientSampleId :
VSTDCCC050

Tot Ion	Ratio	Lower	Upper
128	100		
127	12.7	10.4	15.6
129	10.8	8.6	13.0

Manual Integrations
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#96
1,2,3-Trichlorobenzene
Concen: 50.04 ug/l
RT: 15.32 min Scan# 4269
Delta R.T. 0.00 min
Lab File: VN049776.D
Acq: 12 Jul 2018 17:31

Tgt Ion	Ratio	Lower	Upper
180	100		
182	95.8	47.4	142.2
145	30.0	15.2	45.6

