

Data Path : Z:\VOASRV\HPCHEM1\MSVOA N\DATA\VN071318\
 Data File : VN049798.D
 Acq On : 13 Jul 2018 15:43
 Operator : MD\SY
 Sample : VN0713WBSD01
 Misc : 5.00mL/MSVOA N/WATER
 ALS Vial : 12 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 VN0713WBSD01

Manual Integrations
 APPROVED

MMDadoda
 7/16/2018 11:02:48 AM

Quant Time: Jul 14 00:09:06 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	1121802	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	8.59	114	1638730	50.00	ug/l	0.00
63) Chlorobenzene-d5	11.41	117	1484144	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.35	152	742499	50.00	ug/l	0.00

System Monitoring Compounds

33) 1,2-Dichloroethane-d4	8.03	65	643615	49.32	ug/l	0.00
Spiked Amount	50.000		Recovery	=	98.64%	
35) Dibromofluoromethane	7.60	113	618450	50.07	ug/l	0.00
Spiked Amount	50.000		Recovery	=	100.14%	
50) Toluene-d8	10.09	98	2023346	47.85	ug/l	0.00
Spiked Amount	50.000		Recovery	=	95.70%	
62) 4-Bromofluorobenzene	12.40	95	715161	47.36	ug/l	0.00
Spiked Amount	50.000		Recovery	=	94.72%	

Target Compounds

						Qvalue
2) Dichlorodifluoromethane	1.85	85	195596	19.33	ug/l	96
3) Chloromethane	2.06	50	256071	19.21	ug/l	100
4) Vinyl Chloride	2.18	62	292104	20.14	ug/l	100
5) Bromomethane	2.57	94	182463	19.95	ug/l	95
6) Chloroethane	2.71	64	190591	19.10	ug/l	99
7) Trichlorofluoromethane	3.02	101	408668	19.21	ug/l	99
8) Diethyl Ether	3.42	74	142547	18.70	ug/l	100
9) 1,1,2-Trichlorotrifluoroet	3.76	101	263585	19.09	ug/l	99
10) Methyl Iodide	3.96	142	337628	19.24	ug/l	100
11) Tert butyl alcohol	4.80	59	82106	94.01	ug/l	99
12) 1,1-Dichloroethene	3.74	96	226519	18.67	ug/l	98
13) Acrolein	3.61	56	66455	86.63	ug/l	98
14) Allyl chloride	4.33	41	365889	18.48	ug/l	98
15) Acrylonitrile	5.00	53	420465	96.13	ug/l	98
16) Acetone	3.82	43	332274	102.23	ug/l	99
17) Carbon Disulfide	4.05	76	589213	18.69	ug/l	100
18) Methyl Acetate	4.33	43	229465	20.62	ug/l	99
19) Methyl tert-butyl Ether	5.06	73	646685	19.22	ug/l	99
20) Methylene Chloride	4.55	84	276087	20.07	ug/l	98
21) trans-1,2-Dichloroethene	5.05	96	246285	18.57	ug/l	98
22) Diisopropyl ether	5.96	45	815202	20.05	ug/l	99
23) Vinyl Acetate	5.90	43	2636439	96.74	ug/l	100
24) 1,1-Dichloroethane	5.85	63	497553	19.48	ug/l	99
25) 2-Butanone	6.84	43	495406	97.42	ug/l	96
26) 2,2-Dichloropropane	6.83	77	420486	19.83	ug/l	98
27) cis-1,2-Dichloroethene	6.83	96	296916	19.58	ug/l	99
28) Bromochloromethane	7.20	49	225987	19.45	ug/l	98
29) Tetrahydrofuran	7.22	42	309607	96.95	ug/l	99
30) Chloroform	7.37	83	518797	19.71	ug/l	100
31) Cyclohexane	7.66	56	396346	19.34	ug/l	97
32) 1,1,1-Trichloroethane	7.57	97	431052	19.28	ug/l	99
36) 1,1-Dichloropropene	7.80	75	358115	18.96	ug/l	100
37) Ethyl Acetate	6.94	43	217791	19.48	ug/l	98
38) Carbon Tetrachloride	7.78	117	373540	18.92	ug/l	99

Data Path : Z:\VOASRV\HPCHEM1\MSVOA N\DATA\VN071318\
 Data File : VN049798.D
 Acq On : 13 Jul 2018 15:43
 Operator : MD\SY
 Sample : VN0713WBSD01
 Misc : 5.00mL/MSVOA N/WATER
 ALS Vial : 12 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 VN0713WBSD01

Manual Integrations
 APPROVED

MMDadoda
 7/16/2018 11:02:48 AM

Quant Time: Jul 14 00:09:06 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)
39) Methylcyclohexane	9.08	83	361496	18.16	ug/l	97
40) Benzene	8.04	78	1106349	19.58	ug/l	99
41) Methacrylonitrile	7.18	41	110912	17.54	ug/l	94
42) 1,2-Dichloroethane	8.13	62	358926	19.42	ug/l	99
43) Isopropyl Acetate	8.17	43	397223	19.77	ug/l	97
44) Trichloroethene	8.84	130	287657	18.91	ug/l	98
45) 1,2-Dichloropropane	9.12	63	298800	19.68	ug/l	99
46) Dibromomethane	9.21	93	175194	19.43	ug/l	99
47) Bromodichloromethane	9.40	83	388628	19.57	ug/l	97
48) Methyl methacrylate	9.20	41	188689	18.78	ug/l	99
49) 1,4-Dioxane	9.20	88	50262	381.86	ug/l	93
51) 4-Methyl-2-Pentanone	9.99	43	1088418	99.77	ug/l	99
52) Toluene	10.16	92	676585	20.01	ug/l	99
53) t-1,3-Dichloropropene	10.38	75	366580	19.19	ug/l	98
54) cis-1,3-Dichloropropene	9.84	75	430238	19.78	ug/l	98
55) 1,1,2-Trichloroethane	10.56	97	259877	19.91	ug/l	99
56) Ethyl methacrylate	10.43	69	297424	19.49	ug/l	97
57) 1,3-Dichloropropane	10.71	76	419388	19.47	ug/l	99
58) 2-Chloroethyl Vinyl ether	9.70	63	740806	101.21	ug/l	98
59) 2-Hexanone	10.75	43	707757	97.59	ug/l	100
60) Dibromochloromethane	10.90	129	289749	19.56	ug/l	99
61) 1,2-Dibromoethane	11.01	107	236273	19.20	ug/l	98
64) Tetrachloroethene	10.63	164	257521	19.11	ug/l	98
65) Chlorobenzene	11.44	112	745006	19.27	ug/l	99
66) 1,1,1,2-Tetrachloroethane	11.51	131	290870	20.00	ug/l	99
67) Ethyl Benzene	11.51	91	1224052	19.33	ug/l	100
68) m/p-Xylenes	11.62	106	954204	40.15	ug/l	99
69) o-Xylene	11.95	106	457069	19.91	ug/l	98
70) Styrene	11.97	104	741370	20.33	ug/l	99
71) Bromoform	12.13	173	191302	19.46	ug/l	# 100
73) Isopropylbenzene	12.25	105	1229219	19.92	ug/l	99
74) N-amyl acetate	12.07	43	306205	19.07	ug/l	99
75) 1,1,2,2-Tetrachloroethane	12.51	83	316776	21.14	ug/l	100
76) 1,2,3-Trichloropropane	12.55	75	257506m	19.52	ug/l	
77) Bromobenzene	12.53	156	319955	19.55	ug/l	98
78) n-propylbenzene	12.59	91	1386818	19.93	ug/l	99
79) 2-Chlorotoluene	12.68	91	851337	19.99	ug/l	100
80) 1,3,5-Trimethylbenzene	12.73	105	1005283	20.50	ug/l	100
81) trans-1,4-Dichloro-2-buten	12.30	75	75862	18.57	ug/l	96
82) 4-Chlorotoluene	12.78	91	851688	20.17	ug/l	100
83) tert-Butylbenzene	12.99	119	877367	20.00	ug/l	99
84) 1,2,4-Trimethylbenzene	13.04	105	1018835	20.72	ug/l	100
85) sec-Butylbenzene	13.17	105	1162898	20.22	ug/l	99
86) p-Isopropyltoluene	13.29	119	997993	20.51	ug/l	100
87) 1,3-Dichlorobenzene	13.28	146	553271	19.49	ug/l	98
88) 1,4-Dichlorobenzene	13.36	146	531341	19.26	ug/l	100
89) n-Butylbenzene	13.62	91	776083	19.32	ug/l	100
90) Hexachloroethane	13.88	117	196482	20.37	ug/l	98
91) 1,2-Dichlorobenzene	13.65	146	545622	19.70	ug/l	100
92) 1,2-Dibromo-3-Chloropropan	14.27	75	43178	19.50	ug/l	95

Data Path : Z:\VOASRV\HPCHEM1\MSVOA N\DATA\VN071318\
Data File : VN049798.D
Acq On : 13 Jul 2018 15:43
Operator : MD\SY
Sample : VN0713WBSD01
Misc : 5.00mL/MSVOA N/WATER
ALS Vial : 12 Sample Multiplier: 1

Instrument :
MSVOA_N
ClientSampleId :
VN0713WBSD01

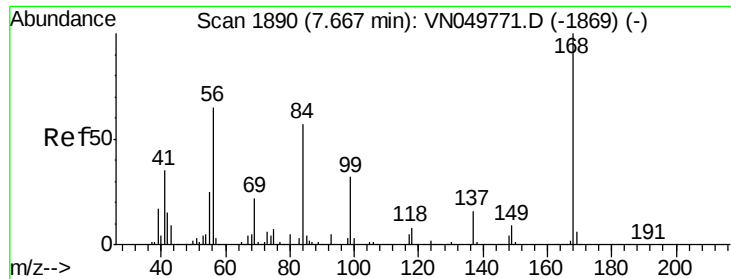
Manual Integrations
APPROVED

MMDadoda
7/16/2018 11:02:48 AM

Quant Time: Jul 14 00:09:06 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)
93) 1,2,4-Trichlorobenzene	14.91	180	246878	18.18	ug/l	99
94) Hexachlorobutadiene	15.01	225	178649	20.44	ug/l	99
95) Naphthalene	15.14	128	466396	17.09	ug/l	99
96) 1,2,3-Trichlorobenzene	15.32	180	260106	19.36	ug/l	99

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



#1

Pentafluorobenzene

Concen: 50.00 ug/l

RT: 7.67 min Scan# 1891

Delta R.T. 0.00 min

Lab File: VN049798.D

Acq: 13 Jul 2018 15:43

Instrument :

MSVOA_N

ClientSampleId :

VN0713WBSD01

Tot Ion:168 Resp: 1121802

Ion Ratio Lower Upper

168 100

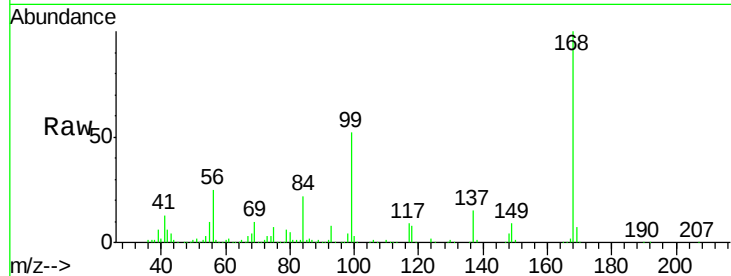
99 51.3 40.6 61.0

Manual Integrations

APPROVED

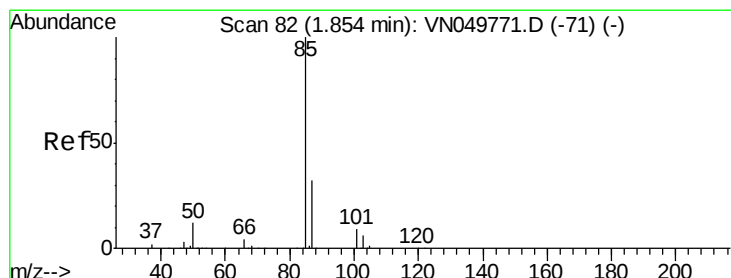
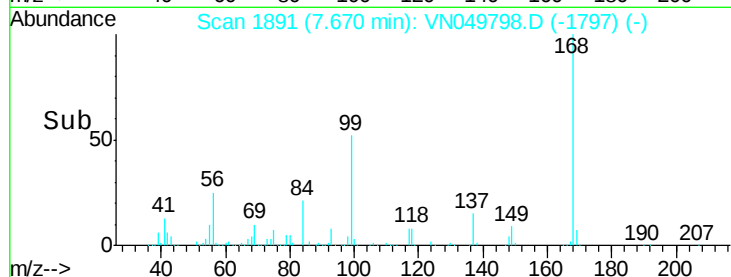
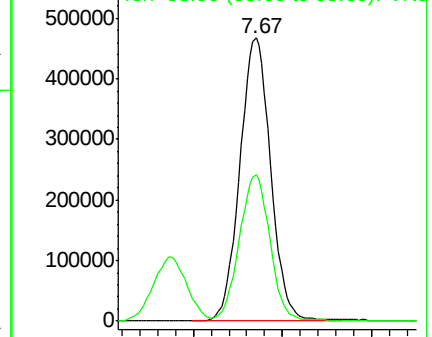
MMDadoda

7/16/2018 11:02:48 AM



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VNO



#2

Dichlorodifluoromethane

Concen: 19.33 ug/l

RT: 1.85 min Scan# 82

Delta R.T. 0.00 min

Lab File: VN049798.D

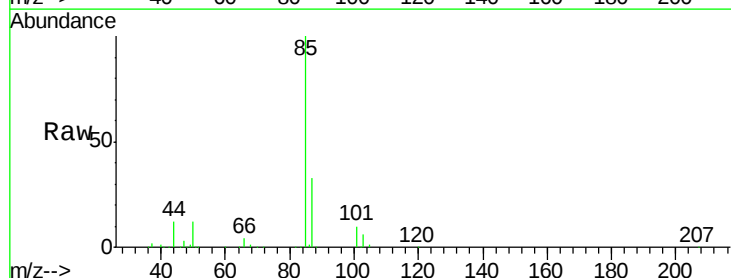
Acq: 13 Jul 2018 15:43

Tgt Ion: 85 Resp: 195596

Ion Ratio Lower Upper

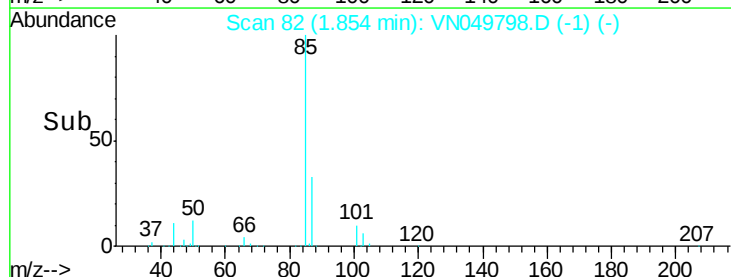
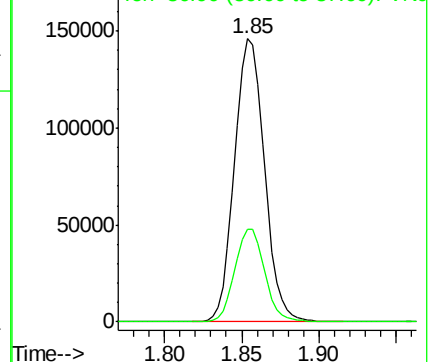
85 100

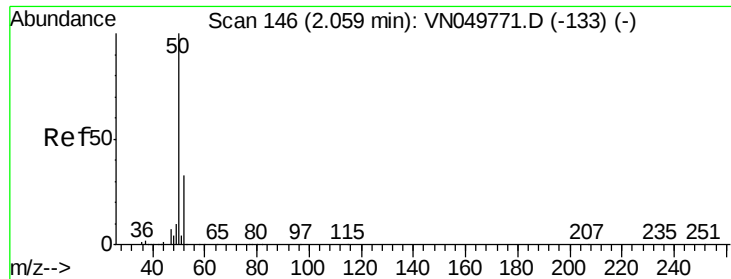
87 32.9 15.4 46.1



Abundance Ion 84.90 (84.60 to 85.60): VNO

Ion 86.90 (86.60 to 87.60): VNO





#3

Chloromethane

Concen: 19.21 ug/l

RT: 2.06 min Scan# 146

Delta R.T. 0.00 min

Lab File: VN049798.D

Acq: 13 Jul 2018 15:43

Instrument :

MSVOA_N

ClientSampleId :

VN0713WBSD01

Tot Ion: 50 Resp: 256071

Ion Ratio Lower Upper

50 100

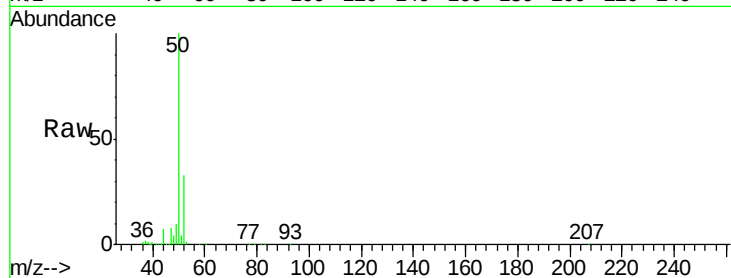
52 32.7 26.1 39.1

Manual Integrations

APPROVED

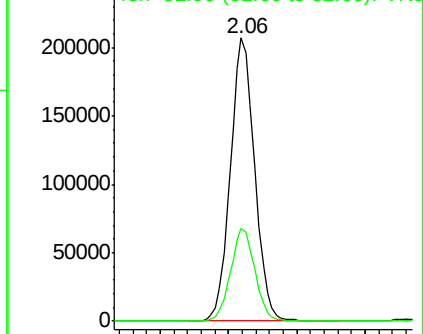
MMDadoda

7/16/2018 11:02:48 AM

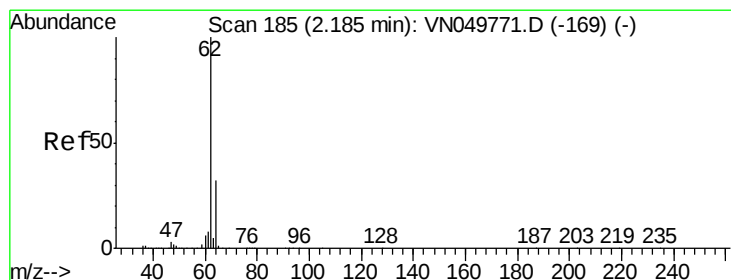
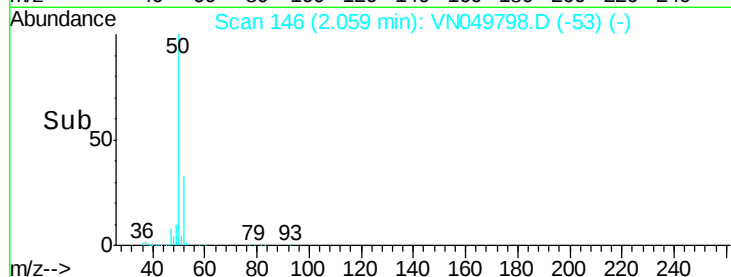


Abundance Ion 49.90 (49.60 to 50.60): VNC

Ion 51.90 (51.60 to 52.60): VNC



Time-->



#4

Vinyl Chloride

Concen: 20.14 ug/l

RT: 2.18 min Scan# 185

Delta R.T. 0.00 min

Lab File: VN049798.D

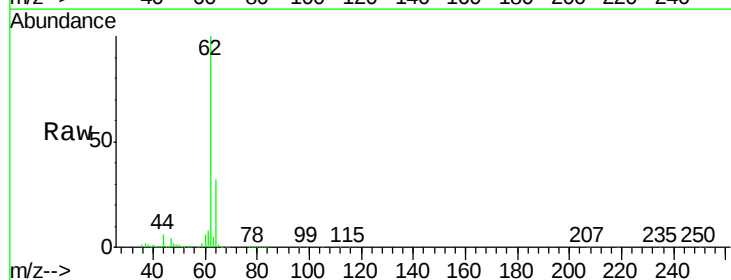
Acq: 13 Jul 2018 15:43

Tgt Ion: 62 Resp: 292104

Ion Ratio Lower Upper

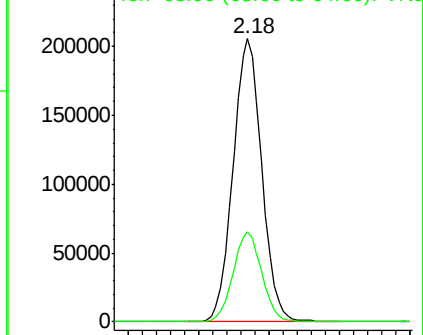
62 100

64 31.7 25.4 38.0

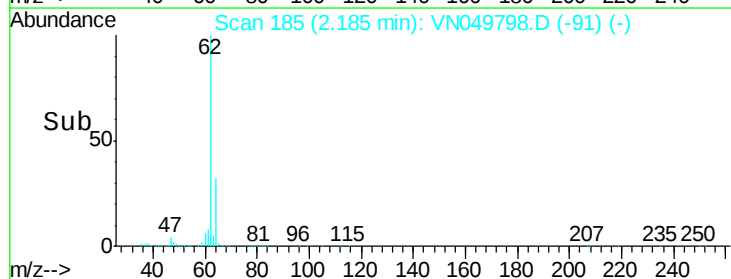


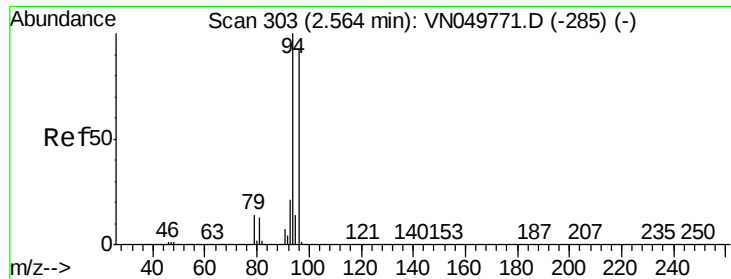
Abundance Ion 61.90 (61.60 to 62.60): VNC

Ion 63.90 (63.60 to 64.60): VNC



Time-->





#5

Bromomethane

Concen: 19.95 ug/l

RT: 2.57 min Scan# 304

Delta R.T. 0.00 min

Lab File: VN049798.D

Acq: 13 Jul 2018 15:43

Instrument :

MSVOA_N

ClientSampleId :

VN0713WBSD01

Tot Ion: 94 Resp: 182463

Ion Ratio Lower Upper

94 100

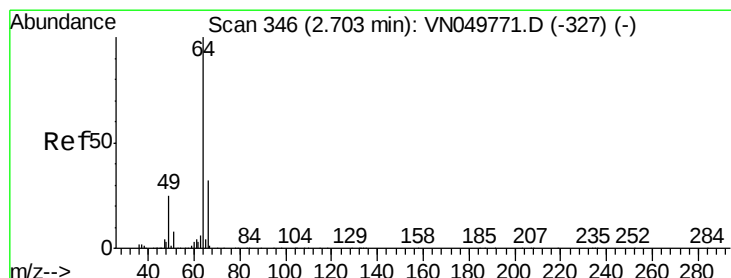
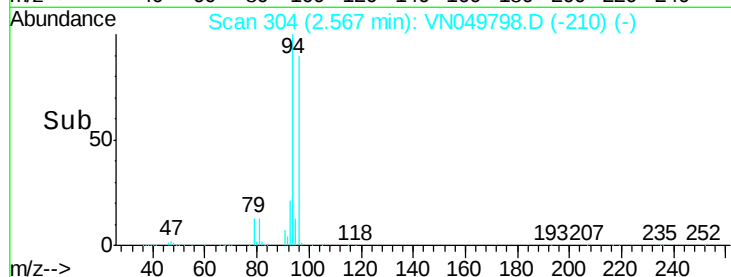
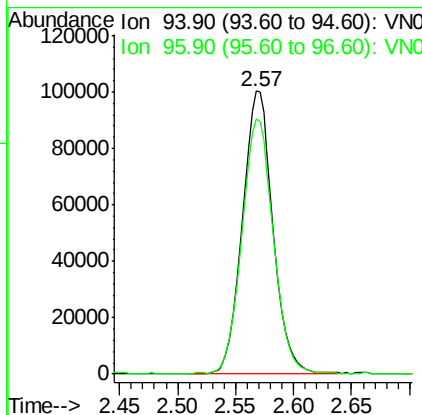
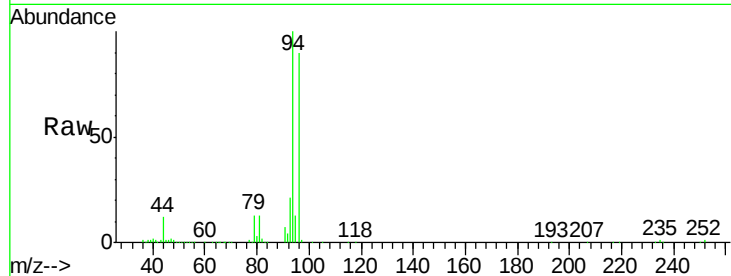
96 89.8 75.7 113.5

Manual Integrations

APPROVED

MMDadoda

7/16/2018 11:02:48 AM



#6

Chloroethane

Concen: 19.10 ug/l

RT: 2.71 min Scan# 347

Delta R.T. 0.00 min

Lab File: VN049798.D

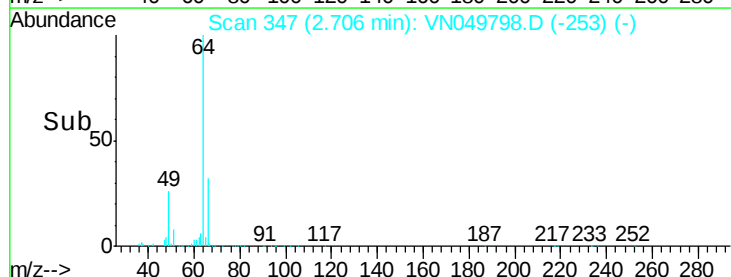
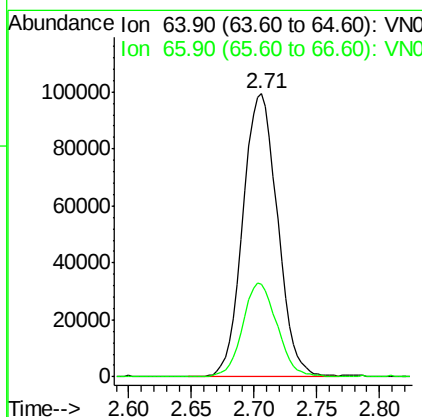
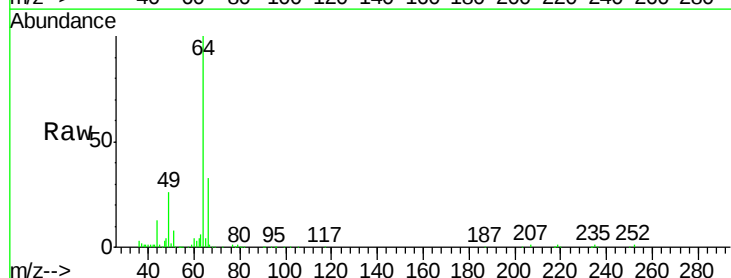
Acq: 13 Jul 2018 15:43

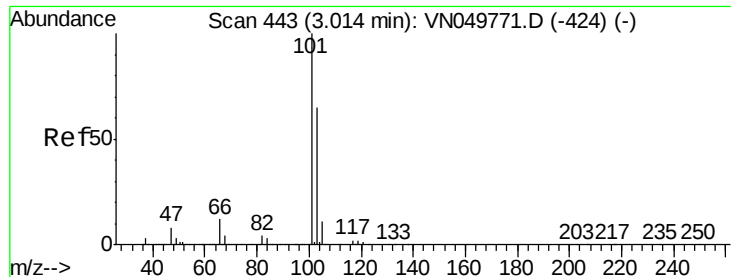
Tgt Ion: 64 Resp: 190591

Ion Ratio Lower Upper

64 100

66 32.3 25.6 38.4





#7

Trichlorofluoromethane

Concen: 19.21 ug/l

RT: 3.02 min Scan# 444

Delta R.T. 0.00 min

Lab File: VN049798.D

Acq: 13 Jul 2018 15:43

Instrument :

MSVOA_N

ClientSampleId :

VN0713WBSD01

Tot Ion:101 Resp: 408668

Ion Ratio Lower Upper

101 100

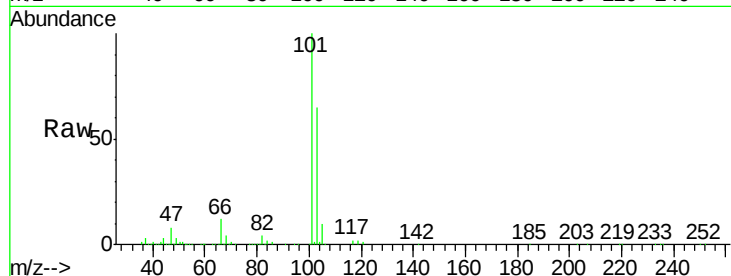
103 64.9 52.8 79.2

Manual Integrations

APPROVED

MMDadoda

7/16/2018 11:02:48 AM



Abundance Ion 100.90 (100.60 to 101.60): V

Ion 102.80 (102.50 to 103.50): V

200000

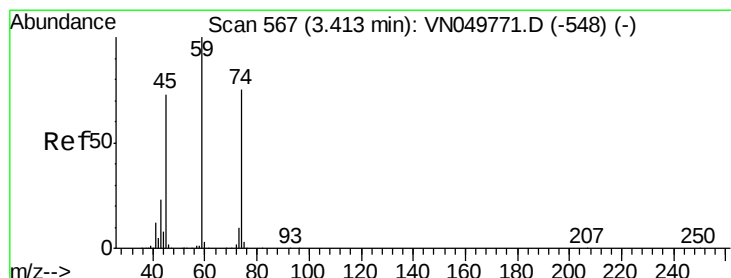
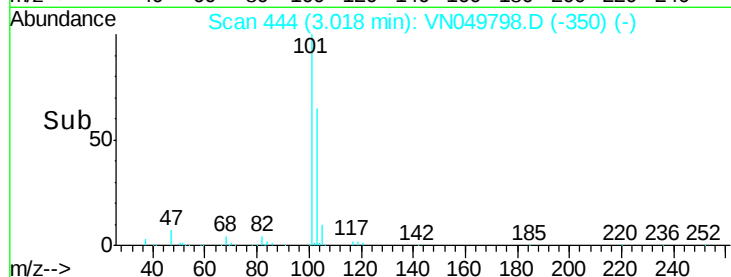
150000

100000

50000

0

Time--> 2.90 2.95 3.00 3.05 3.10



#8

Diethyl Ether

Concen: 18.70 ug/l

RT: 3.42 min Scan# 568

Delta R.T. 0.00 min

Lab File: VN049798.D

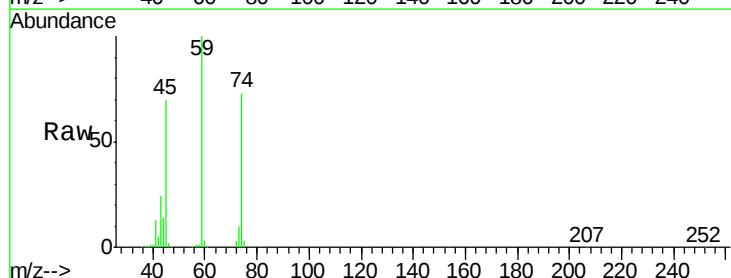
Acq: 13 Jul 2018 15:43

Tgt Ion: 74 Resp: 142547

Ion Ratio Lower Upper

74 100

45 96.6 48.4 145.2



Abundance Ion 74.00 (73.70 to 74.70): V

Ion 45.00 (44.70 to 45.70): V

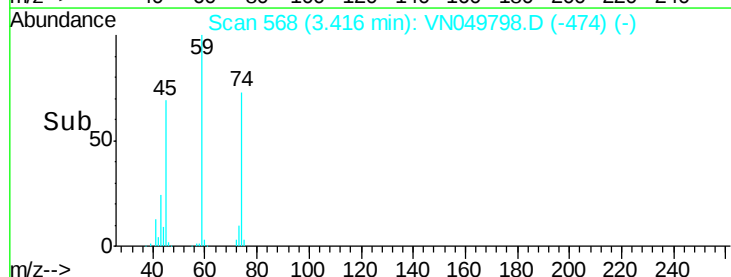
60000

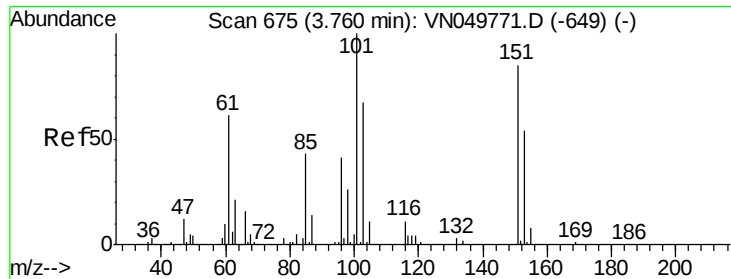
40000

20000

0

Time--> 3.30 3.35 3.40 3.45 3.50





#9

1,1,2-Trichlorotrifluoroethane

Concen: 19.09 ug/l

RT: 3.76 min Scan# 675

Delta R.T. 0.00 min

Lab File: VN049798.D

Acq: 13 Jul 2018 15:43

Instrument :

MSVOA_N

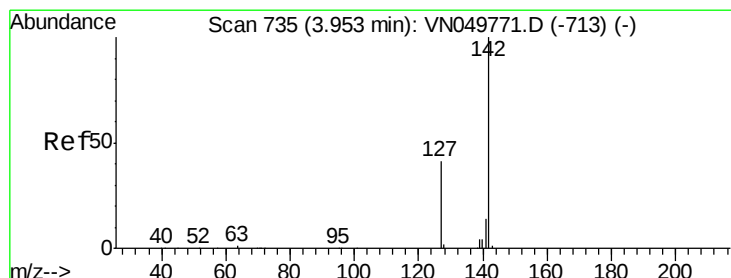
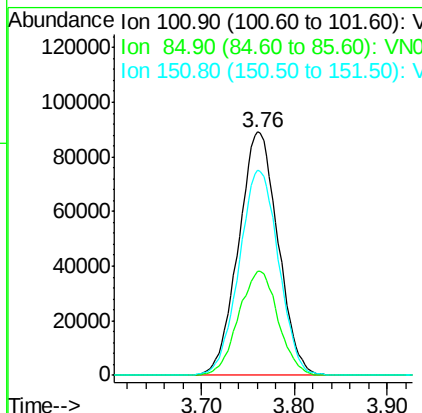
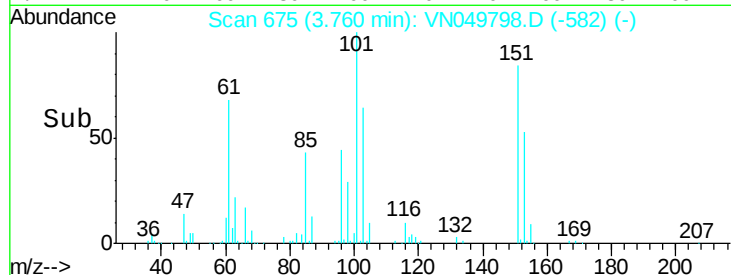
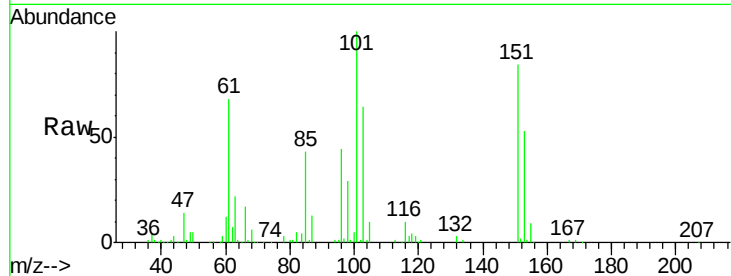
ClientSampleId :

VN0713WBSD01

Tot Ion:	101	Resp:	263585
Ion Ratio	Lower	Upper	
101	100		
85	42.7	34.4	51.6
151	84.3	66.2	99.4

Manual Integrations
APPROVED

MMDadoda
7/16/2018 11:02:48 AM



#10

Methyl Iodide

Concen: 19.24 ug/l

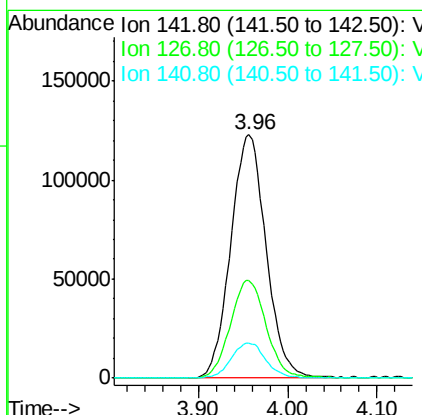
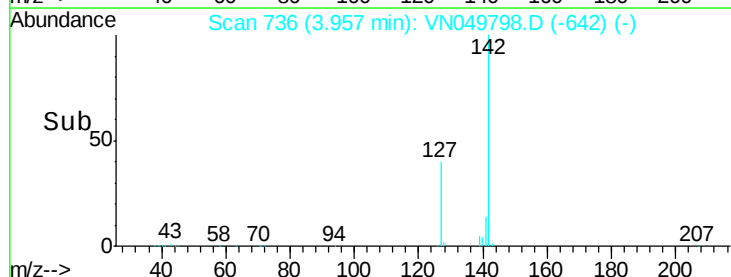
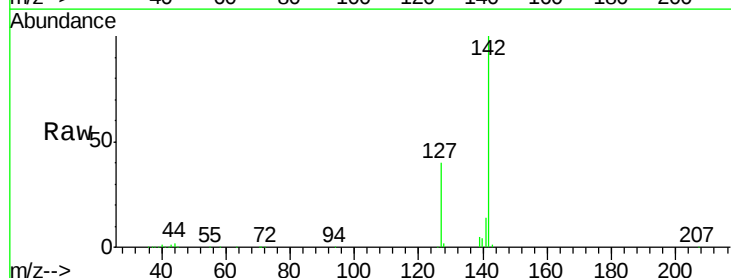
RT: 3.96 min Scan# 736

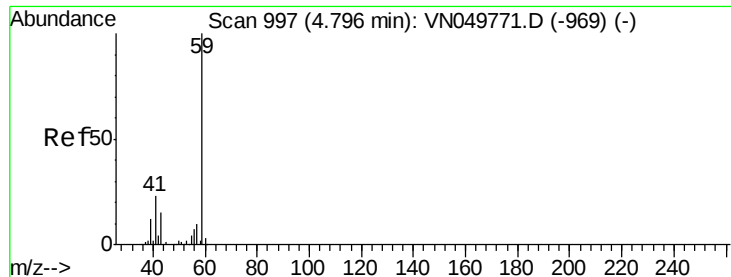
Delta R.T. 0.00 min

Lab File: VN049798.D

Acq: 13 Jul 2018 15:43

Tgt Ion:	142	Resp:	337628
Ion Ratio	Lower	Upper	
142	100		
127	40.5	32.5	48.7
141	14.1	11.1	16.7





#11

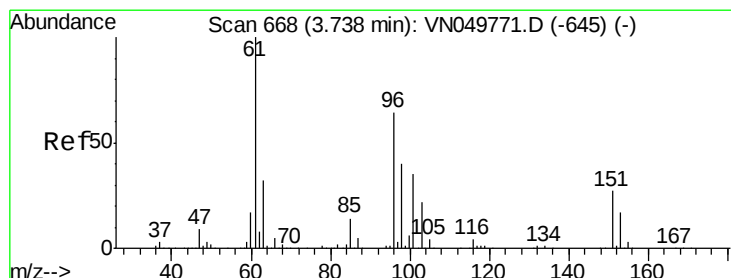
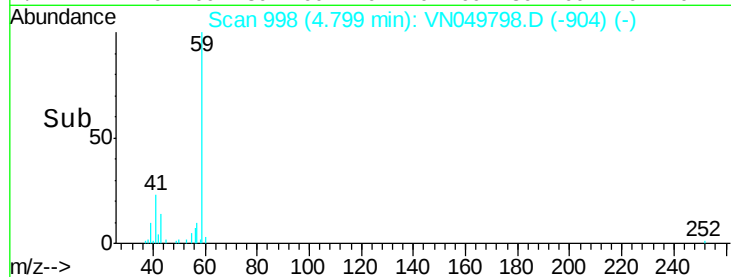
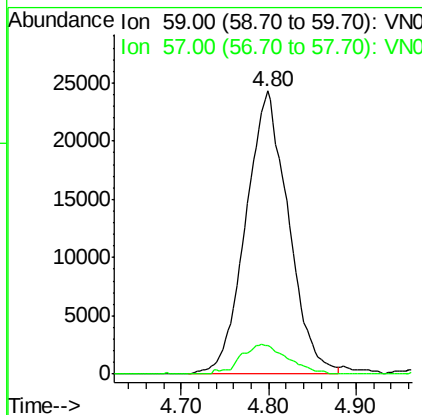
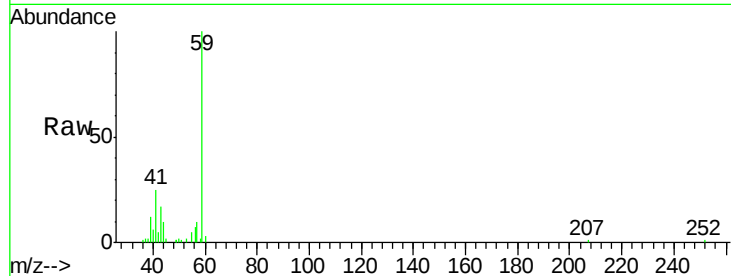
Tert butyl alcohol
 Concen: 94.01 ug/l
 RT: 4.80 min Scan# 998
 Delta R.T. 0.00 min
 Lab File: VN049798.D
 Acq: 13 Jul 2018 15:43

Instrument :
 MSVOA_N
 ClientSampled :
 VN0713WBSD01

Tot Ion	Ratio	Lower	Upper
59	100		
57	11.1	8.5	12.7

Manual Integrations
 APPROVED

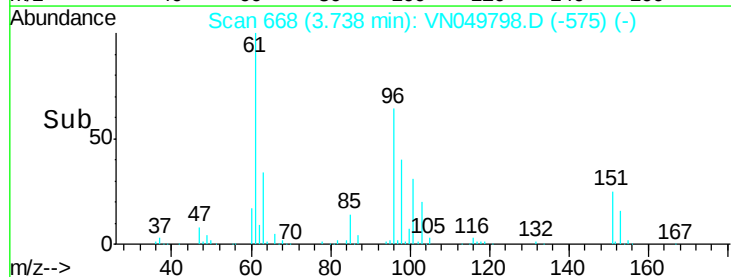
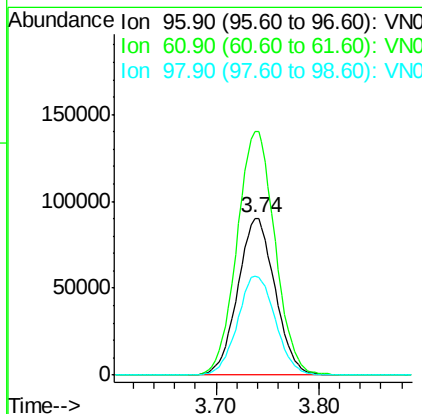
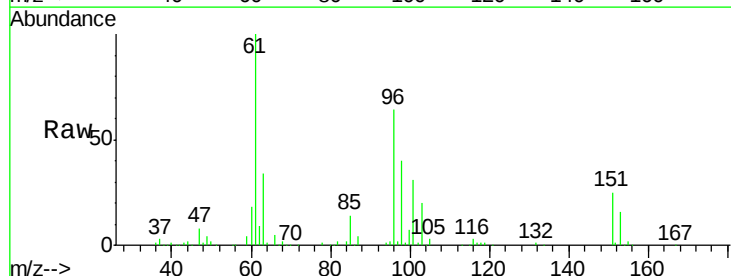
MMDadoda
 7/16/2018 11:02:48 AM

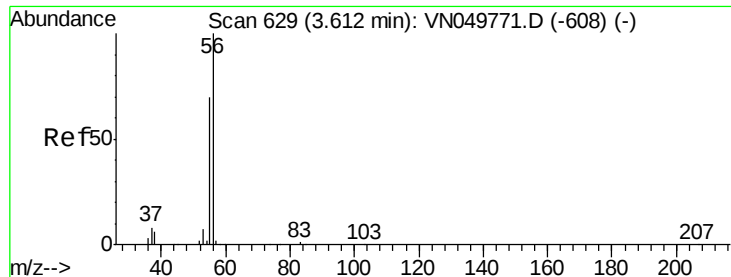


#12

1,1-Dichloroethene
 Concen: 18.67 ug/l
 RT: 3.74 min Scan# 668
 Delta R.T. 0.00 min
 Lab File: VN049798.D
 Acq: 13 Jul 2018 15:43

Tgt Ion	Ratio	Lower	Upper
96	100		
61	155.5	126.5	189.7
98	63.0	51.0	76.6





#13

Acrolein

Concen: 86.63 ug/l

RT: 3.61 min Scan# 629

Delta R.T. 0.00 min

Lab File: VN049798.D

Acq: 13 Jul 2018 15:43

Instrument :

MSVOA_N

ClientSampleId :

VN0713WBSD01

Tot Ion: 56 Resp: 66455

Ion Ratio Lower Upper

56 100

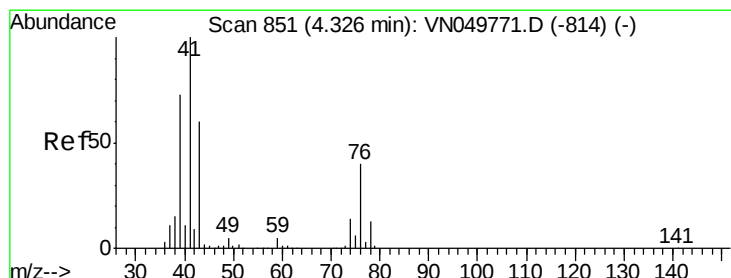
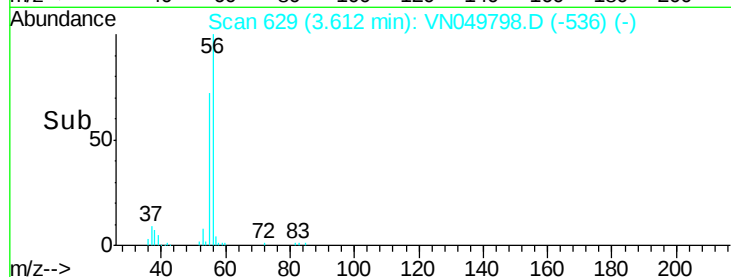
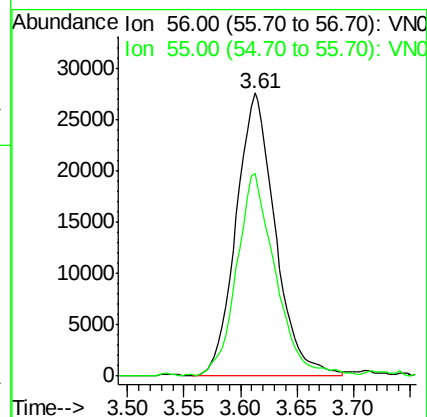
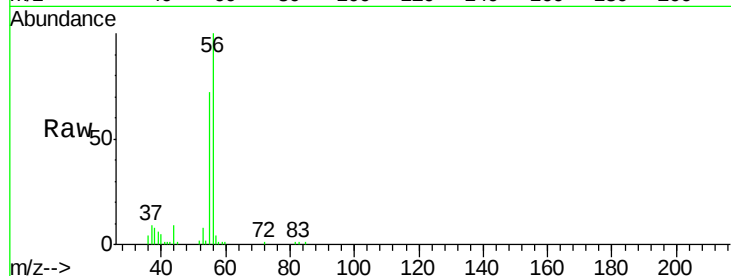
55 71.2 55.8 83.8

Manual Integrations

APPROVED

MMDadoda

7/16/2018 11:02:48 AM



#14

Allyl chloride

Concen: 18.48 ug/l

RT: 4.33 min Scan# 851

Delta R.T. 0.00 min

Lab File: VN049798.D

Acq: 13 Jul 2018 15:43

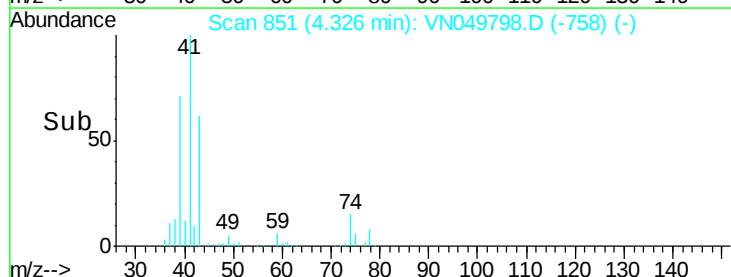
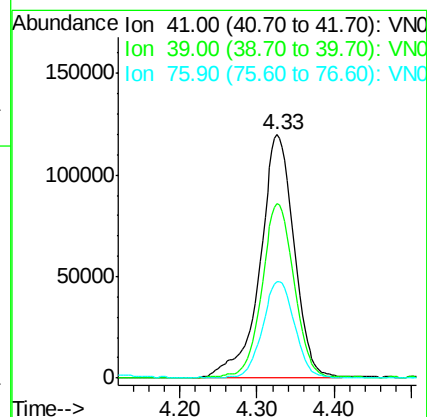
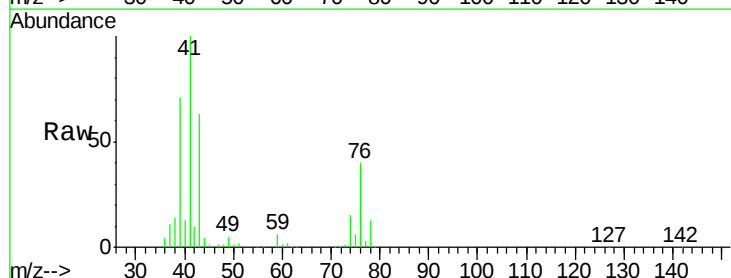
Tgt Ion: 41 Resp: 365889

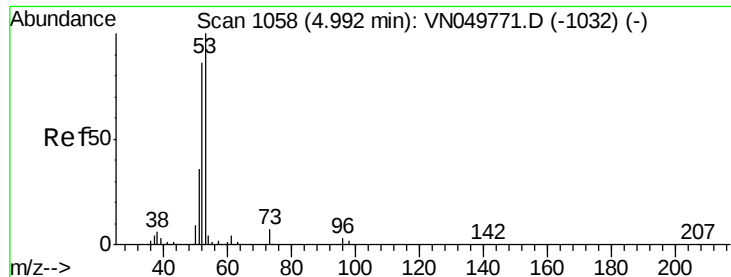
Ion Ratio Lower Upper

41 100

39 68.2 53.2 79.8

76 36.8 29.0 43.6





#15

Acrylonitrile

Concen: 96.13 ug/l

RT: 5.00 min Scan# 1059

Delta R.T. 0.00 min

Lab File: VN049798.D

Acq: 13 Jul 2018 15:43

Instrument :

MSVOA_N

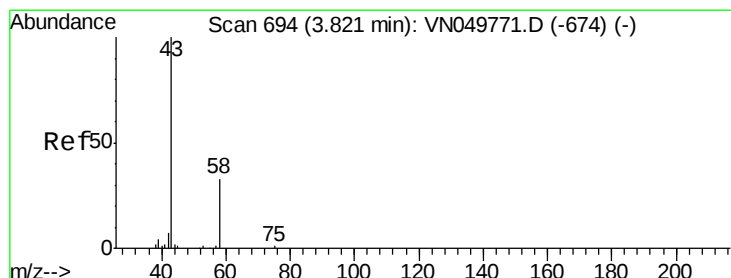
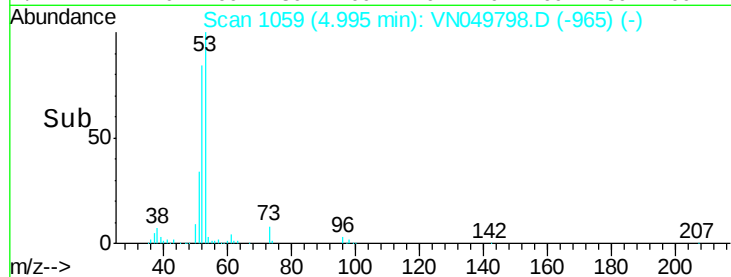
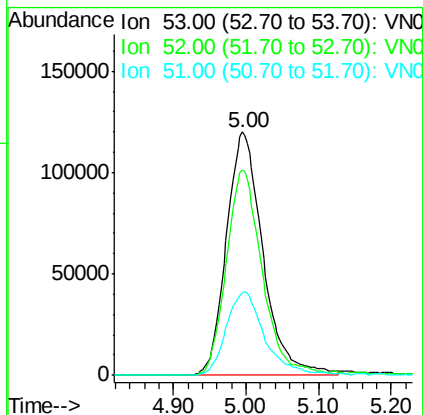
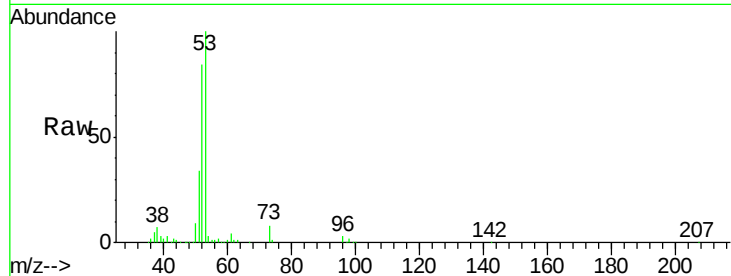
ClientSampleId :

VN0713WBSD01

Tot Ion:	53	Resp:	420465
Ion	Ratio	Lower	Upper
53	100		
52	82.6	64.8	97.2
51	35.5	28.9	43.3

Manual Integrations
APPROVED

MMDadoda
7/16/2018 11:02:48 AM



#16

Acetone

Concen: 102.23 ug/l

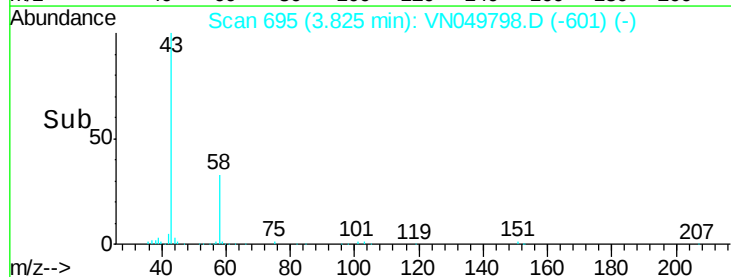
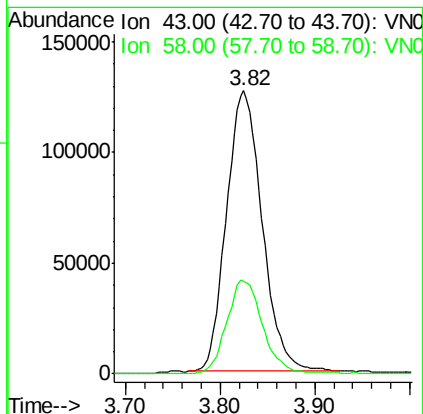
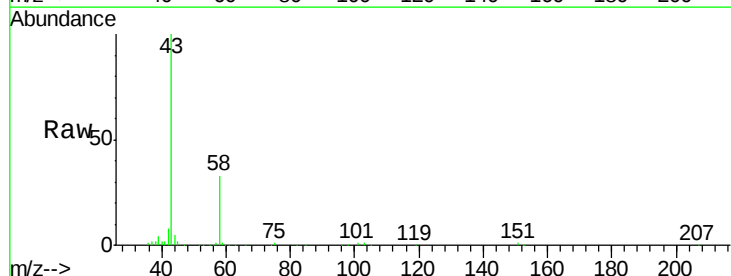
RT: 3.82 min Scan# 695

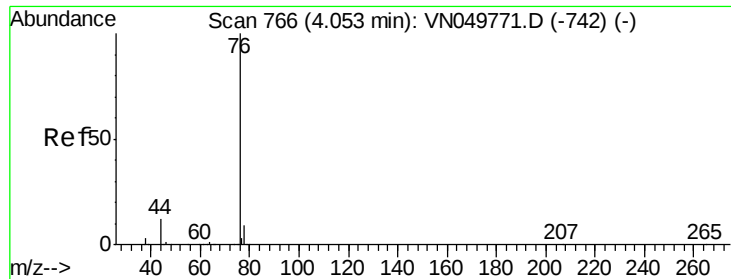
Delta R.T. 0.00 min

Lab File: VN049798.D

Acq: 13 Jul 2018 15:43

Tgt Ion:	43	Resp:	332274
Ion	Ratio	Lower	Upper
43	100		
58	33.1	25.9	38.9





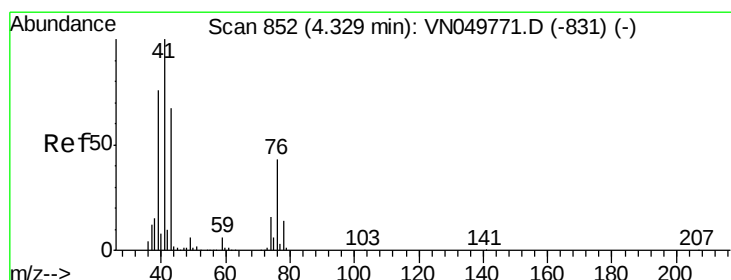
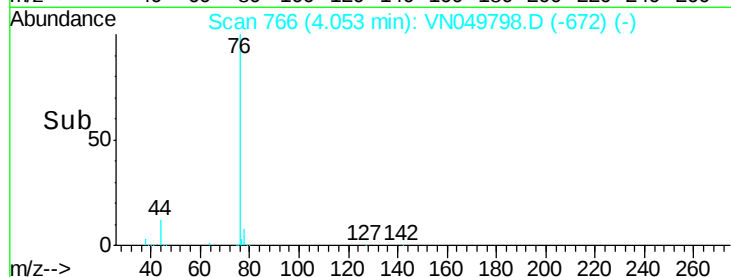
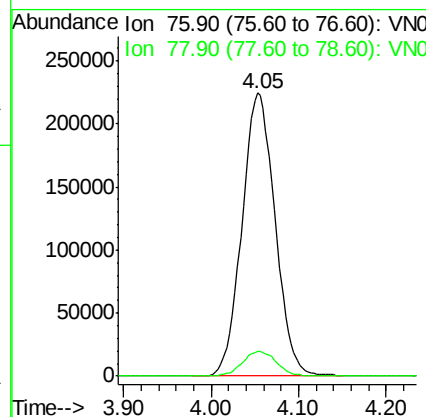
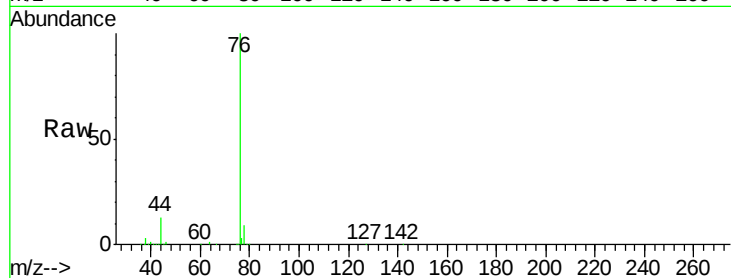
#17
Carbon Disulfide
Concen: 18.69 ug/l
RT: 4.05 min Scan# 766
Delta R.T. 0.00 min
Lab File: VN049798.D
Acq: 13 Jul 2018 15:43

Instrument :
MSVOA_N
ClientSampleId :
VN0713WBSD01

Tot Ion	Ratio	Lower	Upper
76	100		
78	8.8	7.1	10.7

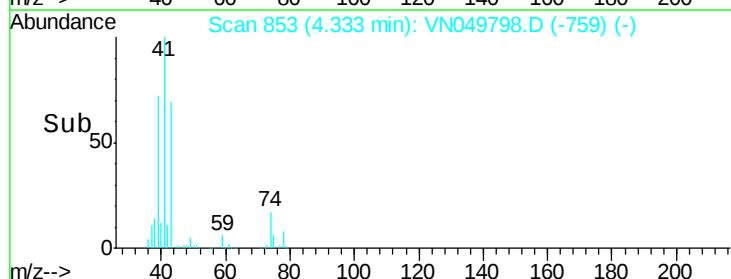
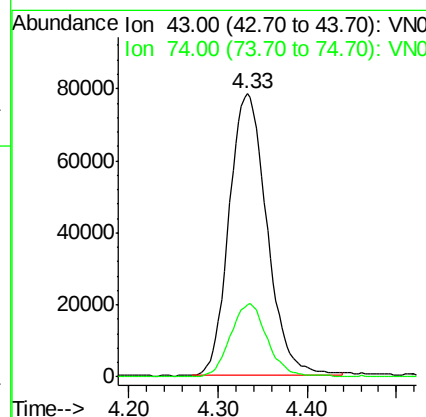
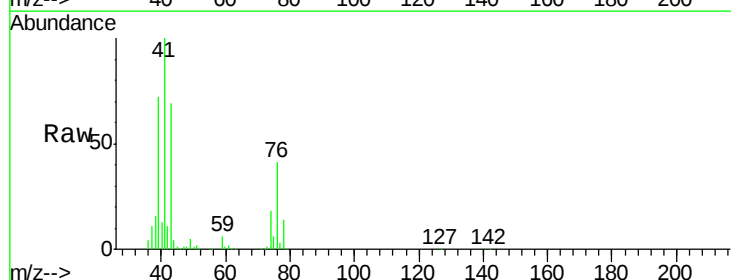
Manual Integrations
APPROVED

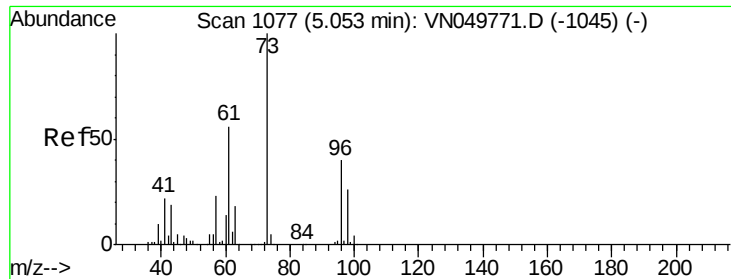
MMDadoda
7/16/2018 11:02:48 AM



#18
Methyl Acetate
Concen: 20.62 ug/l
RT: 4.33 min Scan# 853
Delta R.T. 0.00 min
Lab File: VN049798.D
Acq: 13 Jul 2018 15:43

Tgt Ion	Ratio	Lower	Upper
43	100		
74	25.4	19.8	29.8





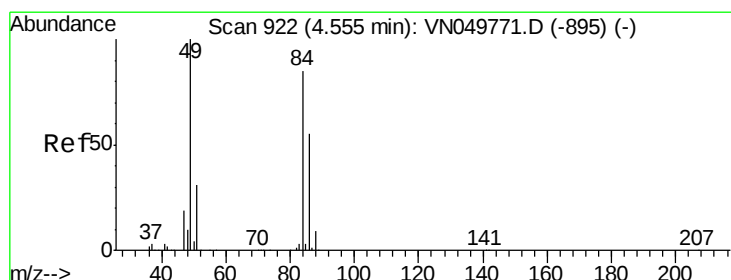
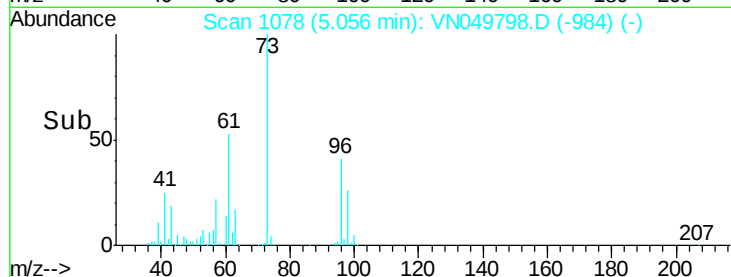
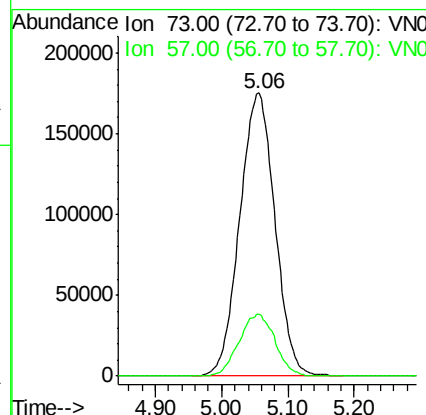
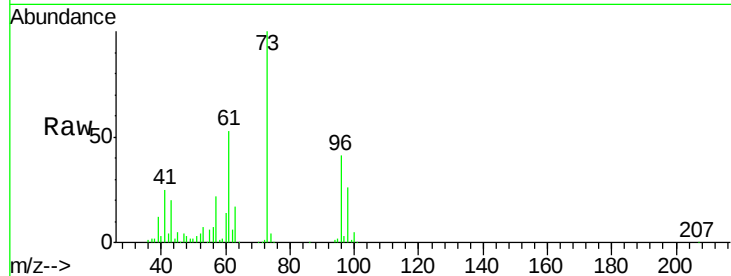
#19
Methvl tert-butvl Ether
Concen: 19.22 ug/l
RT: 5.06 min Scan# 1078
Delta R.T. 0.00 min
Lab File: VN049798.D
Acq: 13 Jul 2018 15:43

Instrument :
MSVOA_N
ClientSampled :
VN0713WBSD01

Tot Ion: 73 Resp: 646685
Ion Ratio Lower Upper
73 100
57 21.9 18.1 27.1

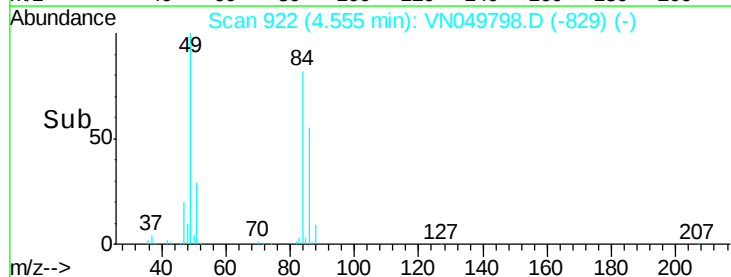
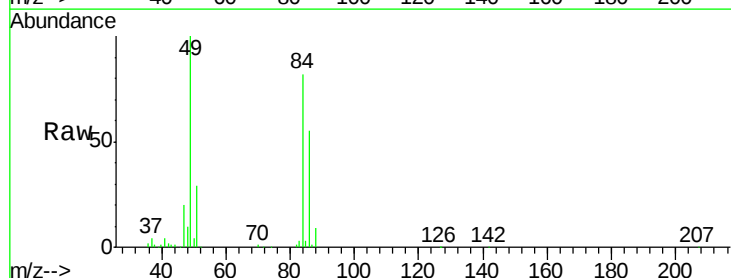
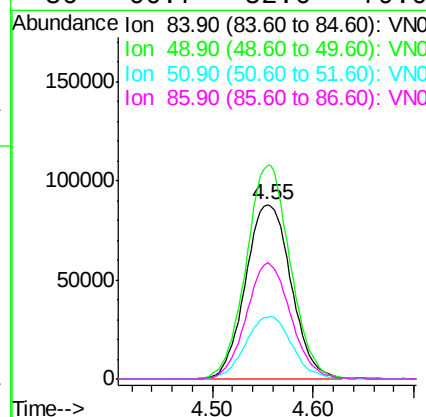
Manual Integrations
APPROVED

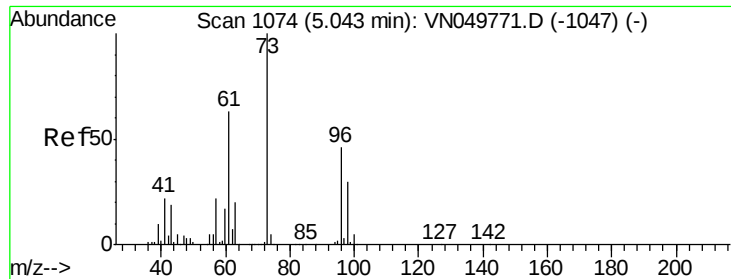
MMDadoda
7/16/2018 11:02:48 AM



#20
Methylene Chloride
Concen: 20.07 ug/l
RT: 4.55 min Scan# 922
Delta R.T. 0.00 min
Lab File: VN049798.D
Acq: 13 Jul 2018 15:43

Tgt Ion: 84 Resp: 276087
Ion Ratio Lower Upper
84 100
49 122.2 95.4 143.2
51 35.4 28.4 42.6
86 66.7 52.6 79.0





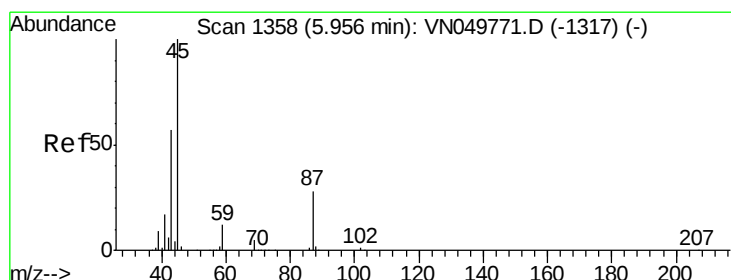
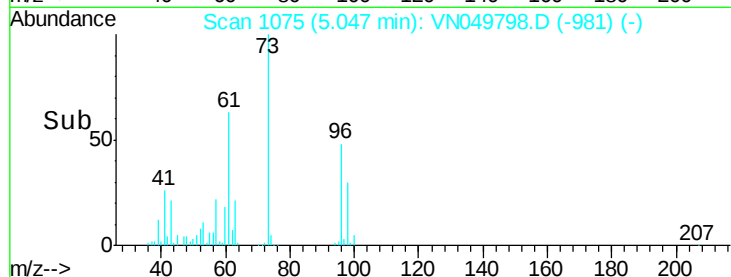
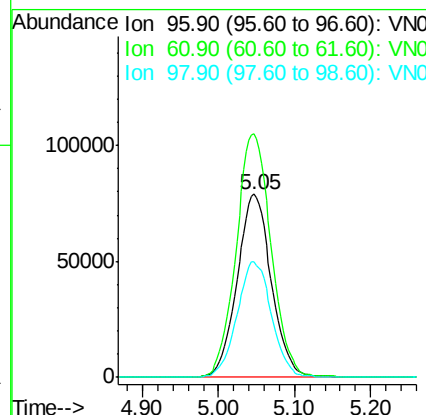
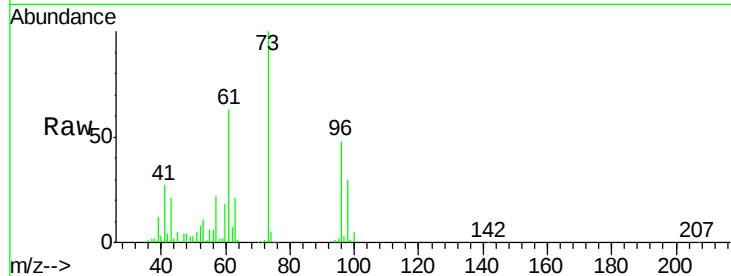
#21
trans-1,2-Dichloroethene
Concen: 18.57 ug/l
RT: 5.05 min Scan# 1075
Delta R.T. 0.00 min
Lab File: VN049798.D
Acq: 13 Jul 2018 15:43

Instrument :
MSVOA_N
ClientSampled :
VN0713WBSD01

Tot Ion	Ratio	Lower	Upper
96	100		
61	133.1	109.0	163.6
98	63.0	51.1	76.7

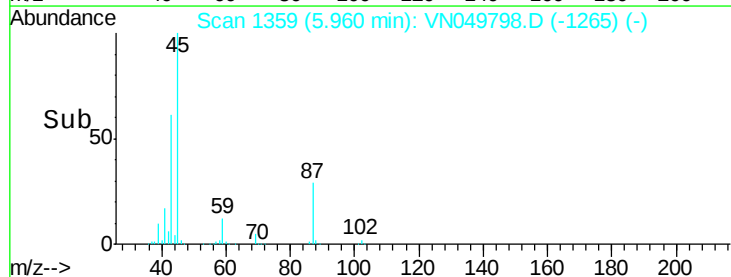
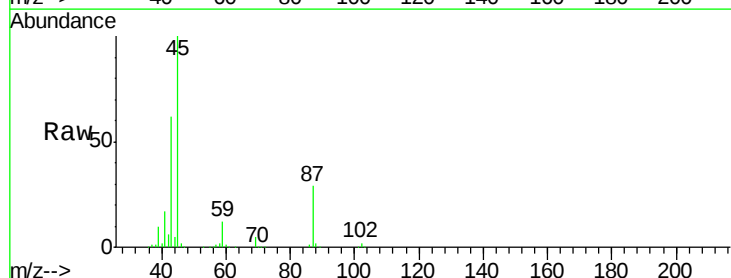
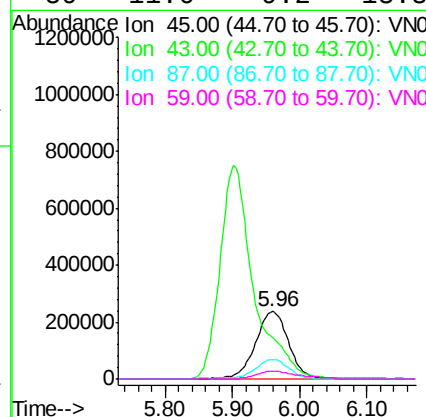
Manual Integrations
APPROVED

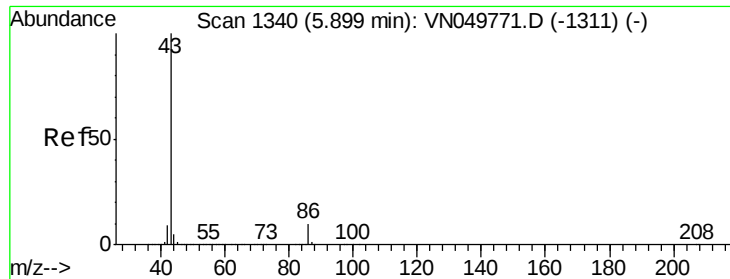
MMDadoda
7/16/2018 11:02:48 AM



#22
Diisopropyl ether
Concen: 20.05 ug/l
RT: 5.96 min Scan# 1359
Delta R.T. 0.00 min
Lab File: VN049798.D
Acq: 13 Jul 2018 15:43

Tgt Ion	Ratio	Lower	Upper
45	100		
43	60.3	48.1	72.1
87	29.0	22.6	34.0
59	11.6	9.2	13.8





#23

Vinyl Acetate

Concen: 96.74 ug/l

RT: 5.90 min Scan# 1341

Delta R.T. 0.00 min

Lab File: VN049798.D

Acq: 13 Jul 2018 15:43

Instrument :

MSVOA_N

ClientSampleId :

VN0713WBSD01

Tot Ion: 43 Resp: 2636439

Ion Ratio Lower Upper

43 100

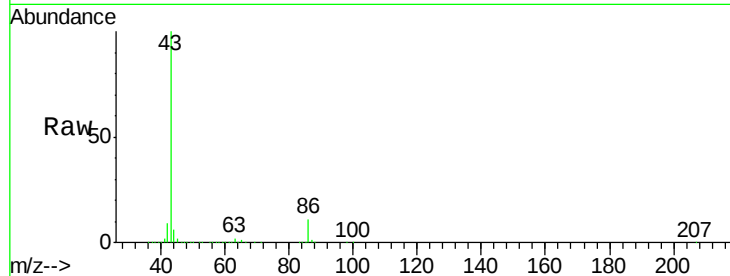
86 10.6 8.4 12.6

Manual Integrations

APPROVED

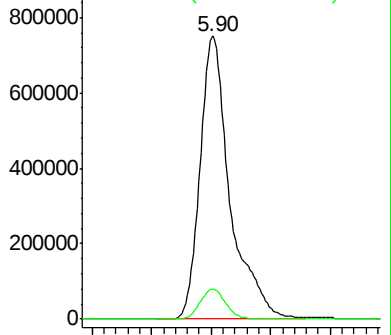
MMDadoda

7/16/2018 11:02:48 AM

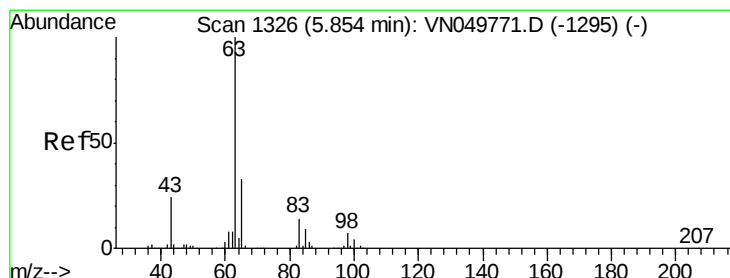
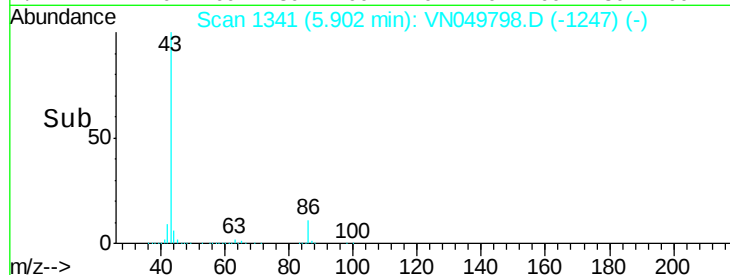


Abundance Ion 43.00 (42.70 to 43.70): VN0

Ion 86.00 (85.70 to 86.70): VN0



Time-->



#24

1,1-Dichloroethane

Concen: 19.48 ug/l

RT: 5.85 min Scan# 1326

Delta R.T. 0.00 min

Lab File: VN049798.D

Acq: 13 Jul 2018 15:43

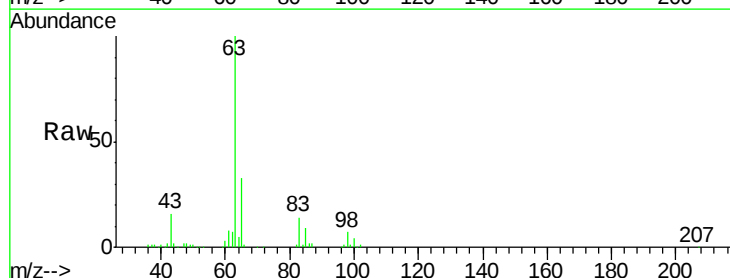
Tgt Ion: 63 Resp: 497553

Ion Ratio Lower Upper

63 100

98 6.6 3.4 10.2

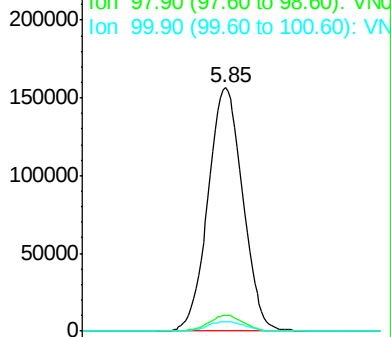
100 4.1 2.2 6.6



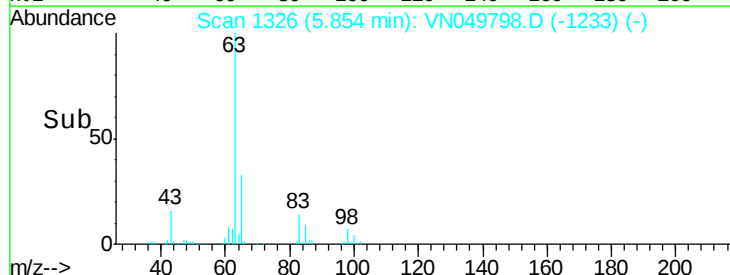
Abundance Ion 62.90 (62.60 to 63.60): VN0

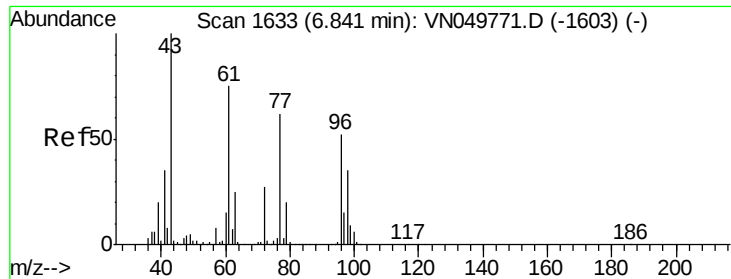
Ion 97.90 (97.60 to 98.60): VN0

Ion 99.90 (99.60 to 100.60): VN0



Time-->





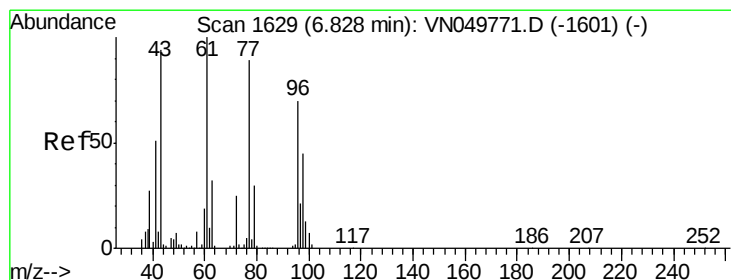
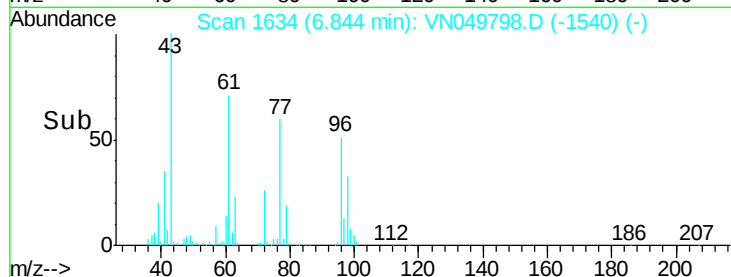
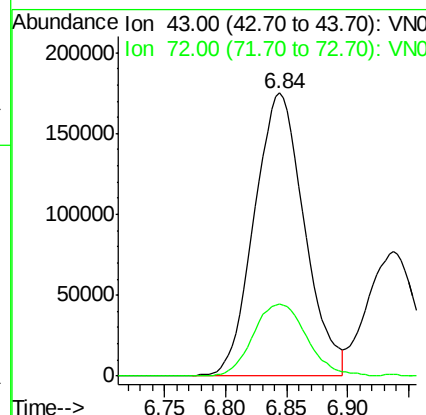
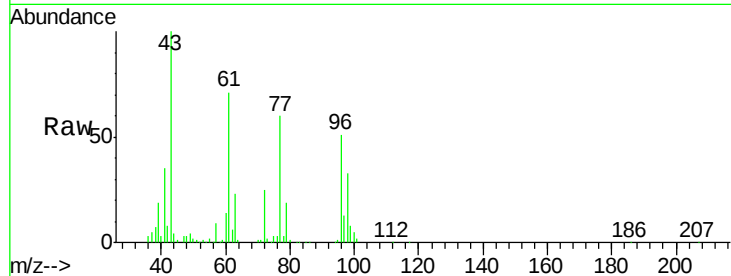
#25
2-Butanone
Concen: 97.42 ug/l
RT: 6.84 min Scan# 1634
Delta R.T. 0.00 min
Lab File: VN049798.D
Acq: 13 Jul 2018 15:43

Instrument :
MSVOA_N
ClientSampled :
VN0713WBSD01

Tot Ion: 43 Resp: 495406
Ion Ratio Lower Upper
43 100
72 25.5 22.1 33.1

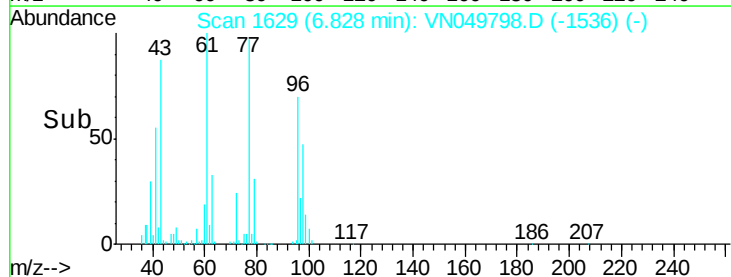
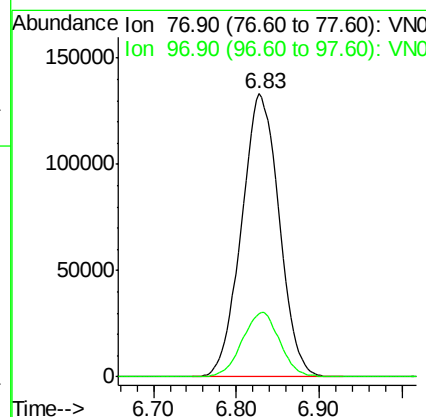
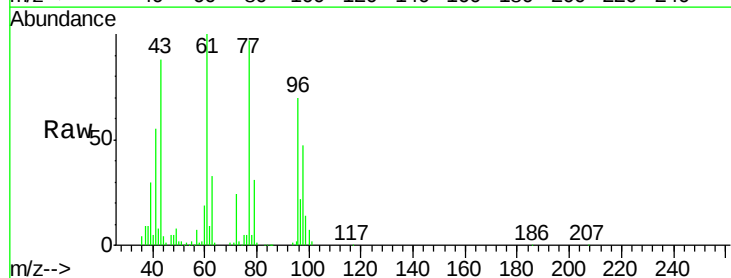
Manual Integrations
APPROVED

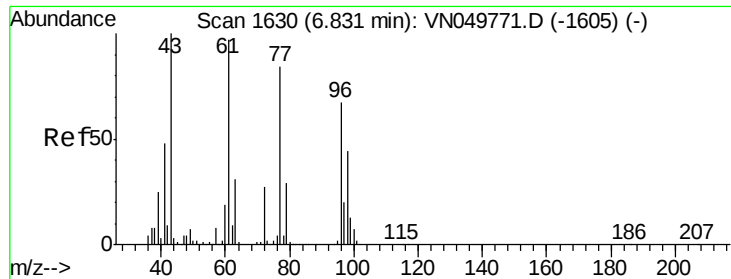
MMDadoda
7/16/2018 11:02:48 AM



#26
2,2-Dichloropropane
Concen: 19.83 ug/l
RT: 6.83 min Scan# 1629
Delta R.T. 0.00 min
Lab File: VN049798.D
Acq: 13 Jul 2018 15:43

Tgt Ion: 77 Resp: 420486
Ion Ratio Lower Upper
77 100
97 22.7 11.9 35.5





#27

cis-1,2-Dichloroethene

Concen: 19.58 ug/l

RT: 6.83 min Scan# 1631

Delta R.T. 0.00 min

Lab File: VN049798.D

Acq: 13 Jul 2018 15:43

Instrument :

MSVOA_N

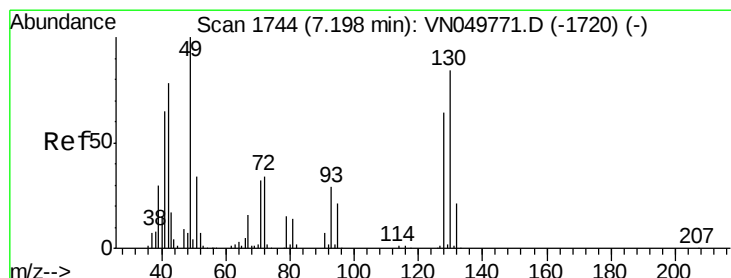
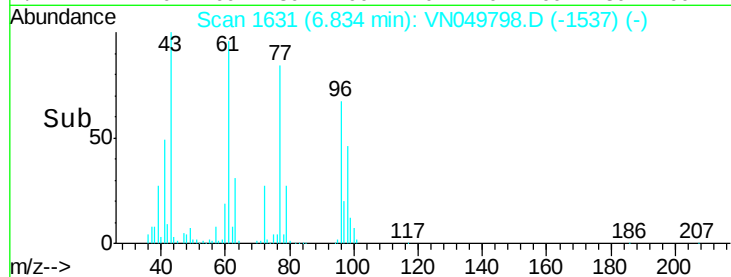
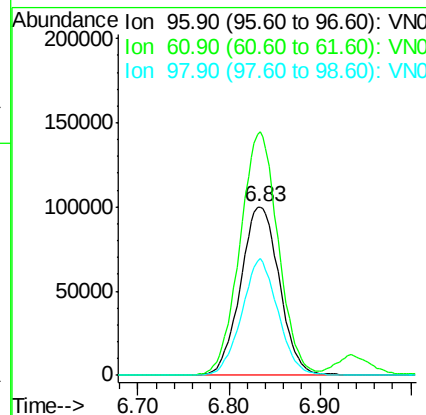
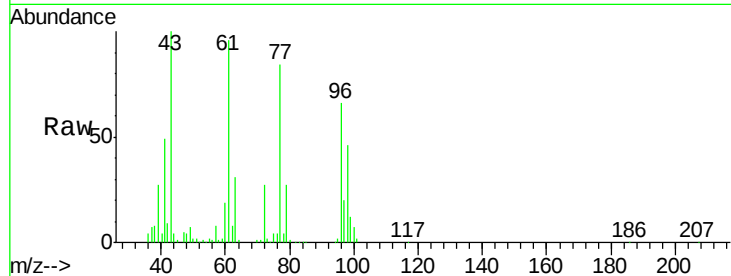
ClientSampleId :

VN0713WBSD01

Tot Ion:	96	Resp:	296916
Ion Ratio	Lower	Upper	
96	100		
61	142.2	0.0	289.0
98	64.6	0.0	130.2

Manual Integrations
APPROVED

MMDadoda
7/16/2018 11:02:48 AM



#28

Bromochloromethane

Concen: 19.45 ug/l

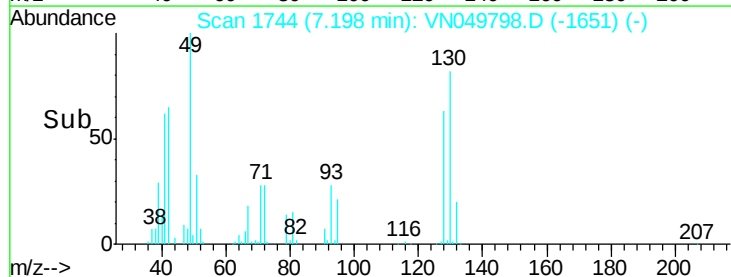
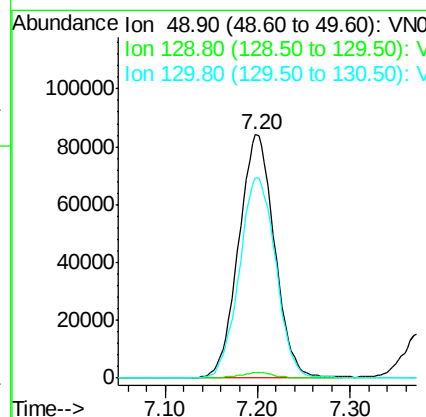
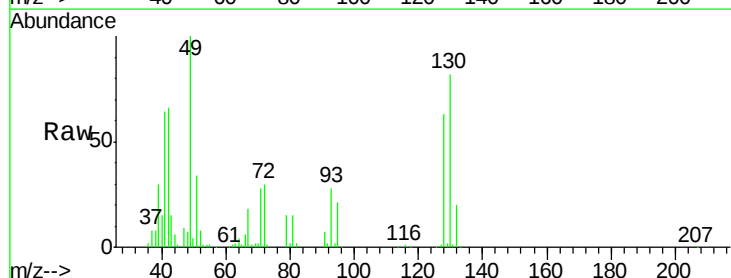
RT: 7.20 min Scan# 1744

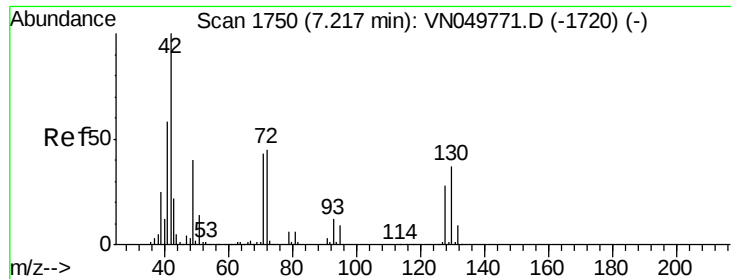
Delta R.T. 0.00 min

Lab File: VN049798.D

Acq: 13 Jul 2018 15:43

Tgt Ion:	49	Resp:	225987
Ion Ratio	Lower	Upper	
49	100		
129	2.1	0.0	4.2
130	83.4	65.5	98.3





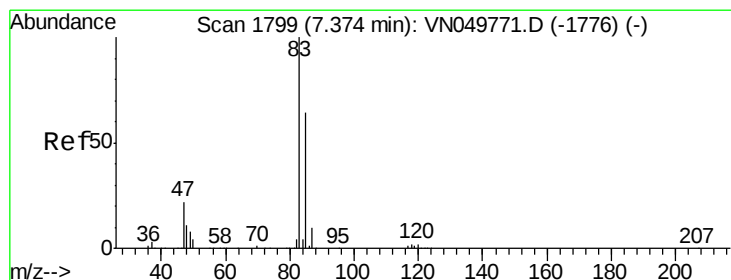
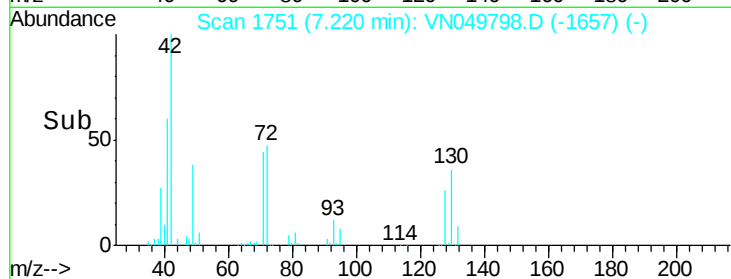
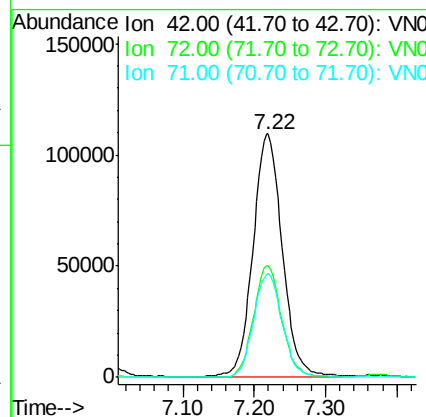
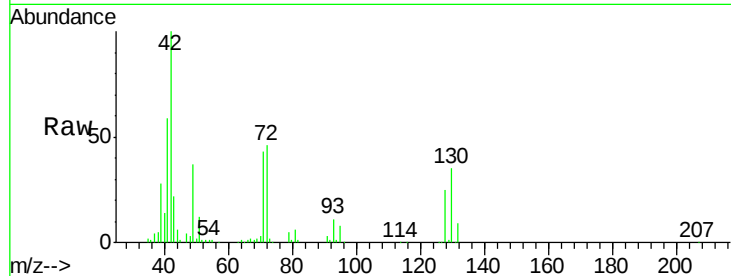
#29
Tetrahydrofuran
Concen: 96.95 ug/l
RT: 7.22 min Scan# 1751
Delta R.T. 0.00 min
Lab File: VN049798.D
Acq: 13 Jul 2018 15:43

Instrument :
MSVOA_N
ClientSampleId :
VN0713WBSD01

Tot Ion	Ratio	Lower	Upper
42	100		
72	44.4	35.6	53.4
71	41.9	34.0	51.0

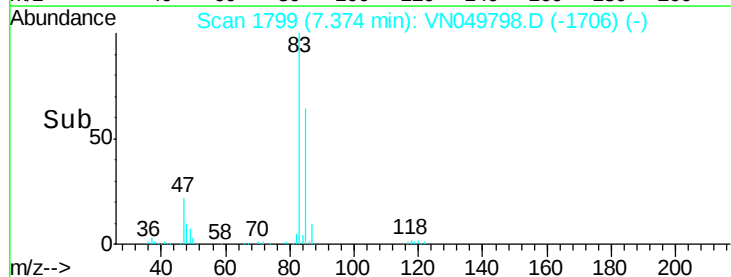
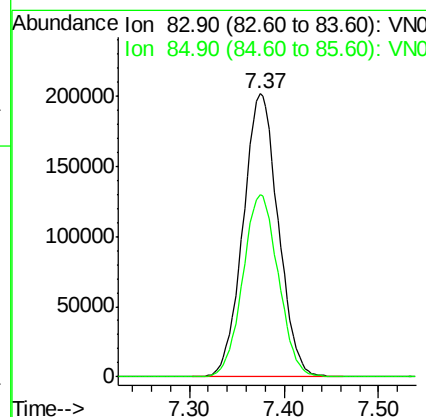
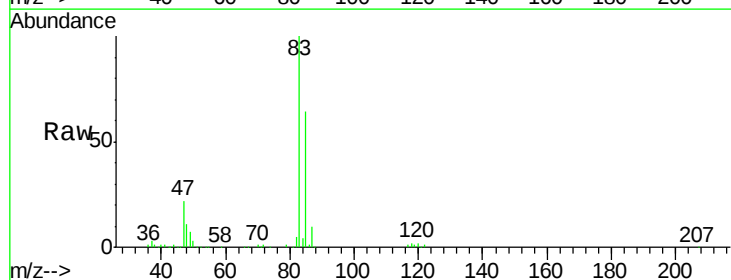
Manual Integrations
APPROVED

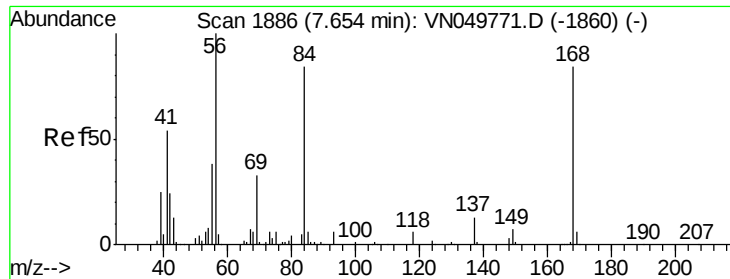
MMDadoda
7/16/2018 11:02:48 AM



#30
Chloroform
Concen: 19.71 ug/l
RT: 7.37 min Scan# 1799
Delta R.T. 0.00 min
Lab File: VN049798.D
Acq: 13 Jul 2018 15:43

Tgt Ion	Ratio	Lower	Upper
83	100		
85	64.2	51.4	77.2





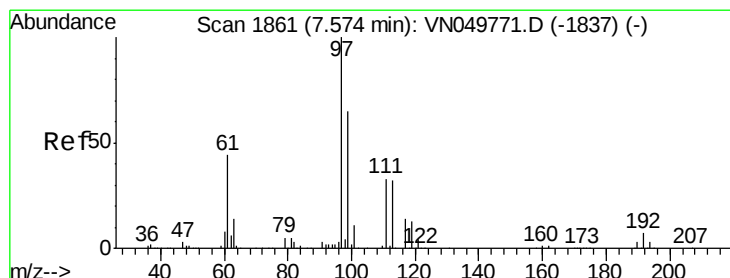
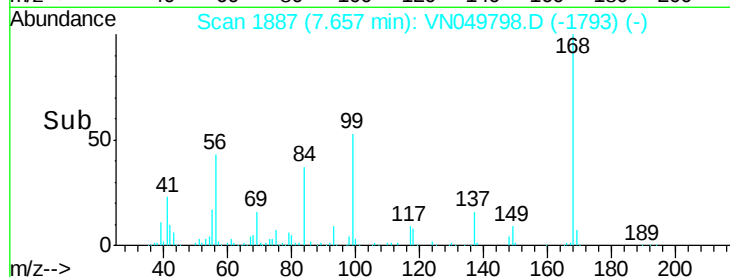
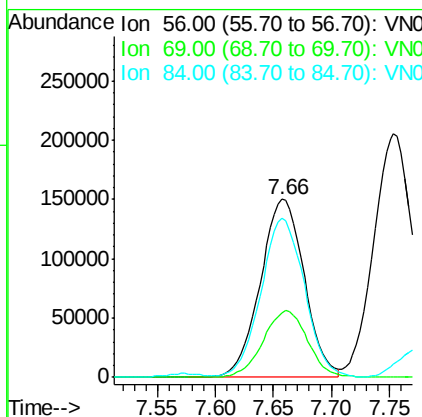
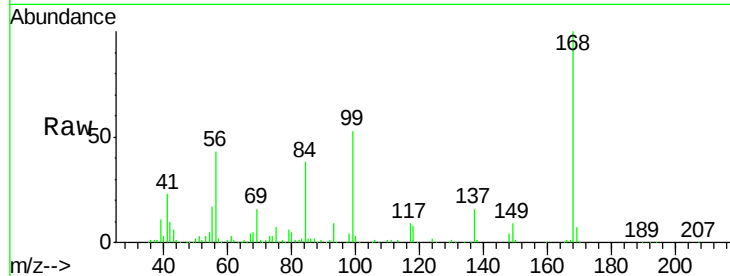
#31
Cyclohexane
Concen: 19.34 ug/l
RT: 7.66 min Scan# 1887
Delta R.T. 0.00 min
Lab File: VN049798.D
Acq: 13 Jul 2018 15:43

Instrument :
MSVOA_N
ClientSampleId :
VN0713WBSD01

Tot Ion	Ratio	Lower	Upper
56	100		
69	36.3	26.6	40.0
84	87.8	69.0	103.6

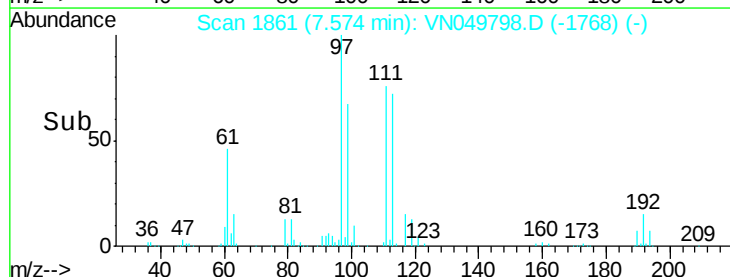
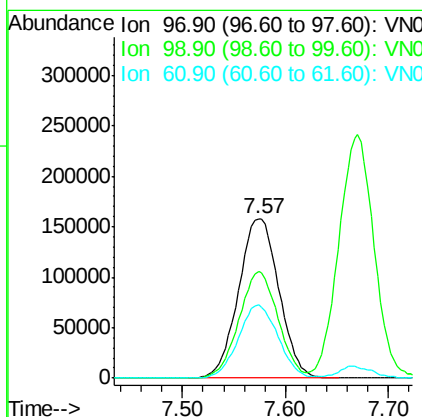
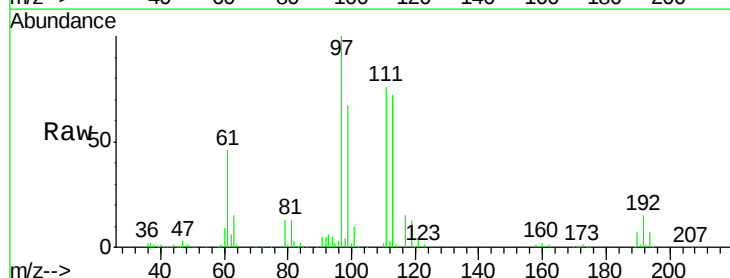
Manual Integrations
APPROVED

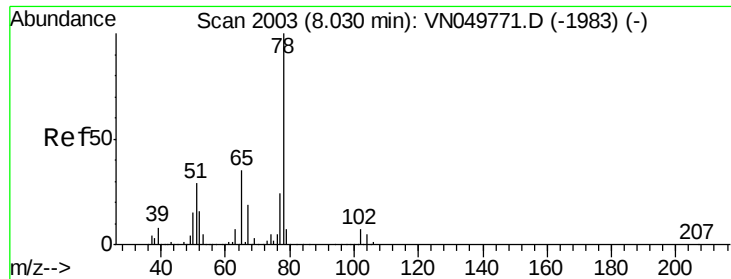
MMDadoda
7/16/2018 11:02:48 AM



#32
1,1,1-Trichloroethane
Concen: 19.28 ug/l
RT: 7.57 min Scan# 1861
Delta R.T. 0.00 min
Lab File: VN049798.D
Acq: 13 Jul 2018 15:43

Tgt Ion	Ratio	Lower	Upper
97	100		
99	64.2	51.0	76.4
61	45.0	35.5	53.3





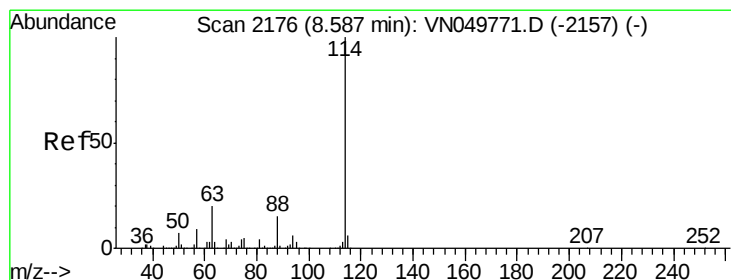
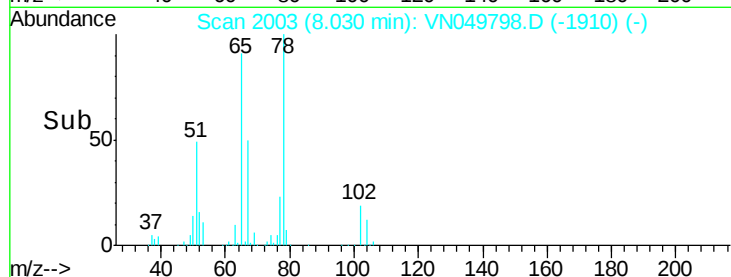
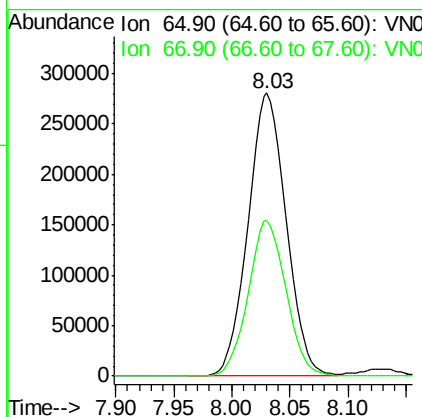
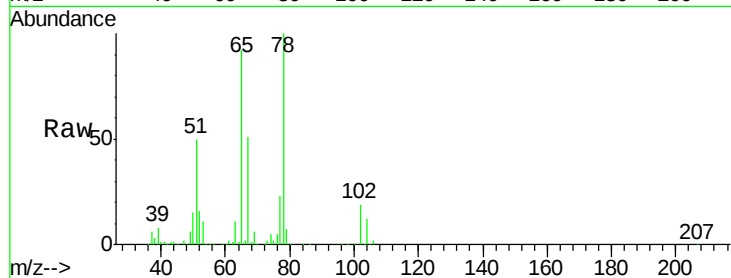
#33
 1,2-Dichloroethane-d4
 Concen: 49.32 ug/l
 RT: 8.03 min Scan# 2003
 Delta R.T. 0.00 min
 Lab File: VN049798.D
 Acq: 13 Jul 2018 15:43

Instrument :
 MSVOA_N
 ClientSampleId :
 VN0713WBSD01

Tot Ion	Ratio	Resp	Lower	Upper
65	100			
67	54.7	0.0		107.2

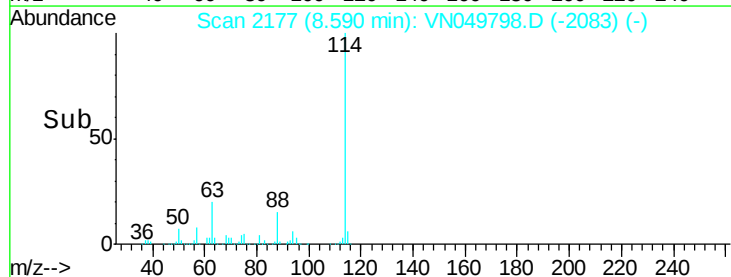
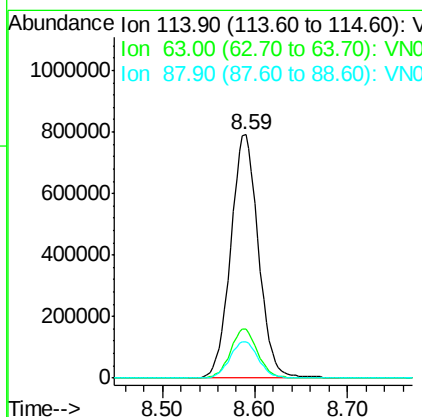
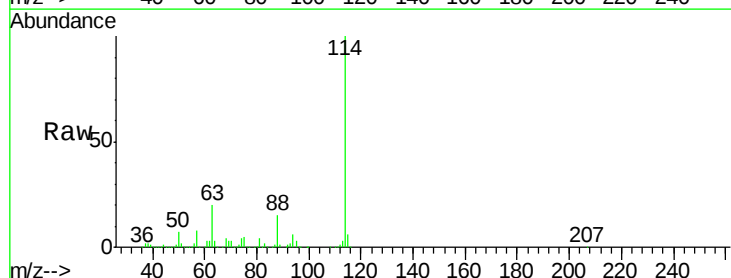
Manual Integrations
 APPROVED

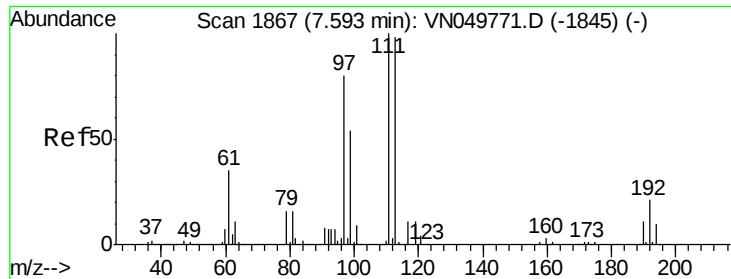
MMDadoda
 7/16/2018 11:02:48 AM



#34
 1,4-Difluorobenzene
 Concen: 50.00 ug/l
 RT: 8.59 min Scan# 2177
 Delta R.T. 0.00 min
 Lab File: VN049798.D
 Acq: 13 Jul 2018 15:43

Tgt Ion	Ratio	Resp	Lower	Upper
114	100			
63	20.1	0.0		39.8
88	15.0	0.0		30.6





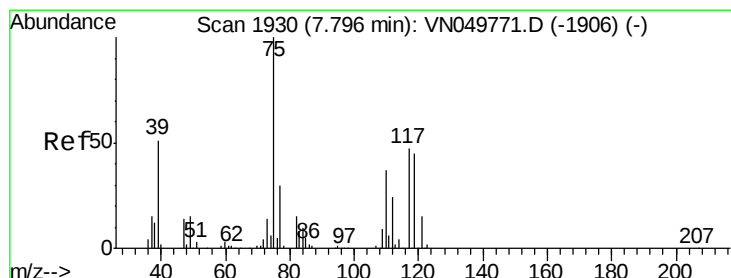
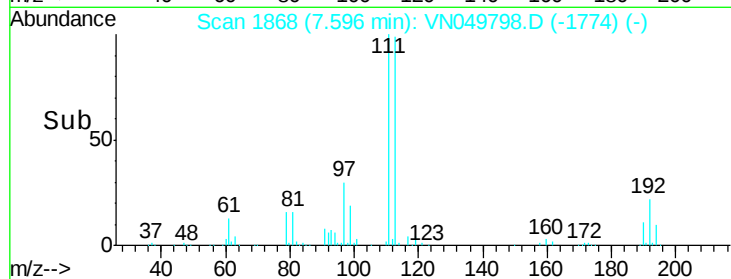
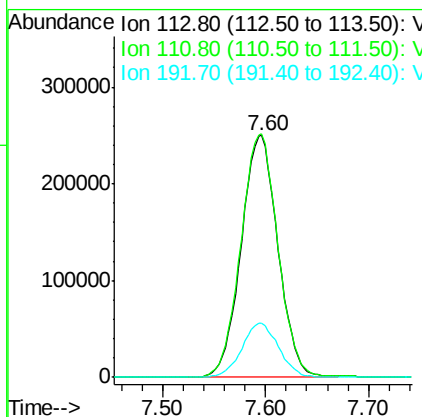
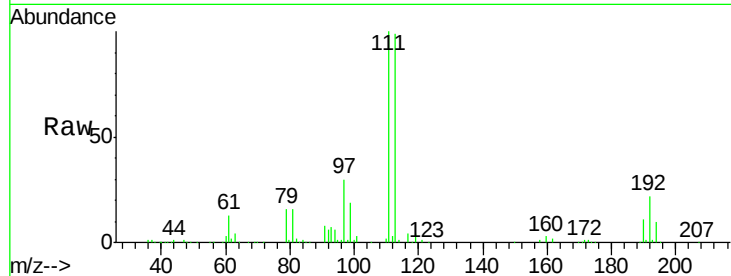
#35
Dibromofluoromethane
Concen: 50.07 ug/l
RT: 7.60 min Scan# 1867
Delta R.T. 0.00 min
Lab File: VN049798.D
Acq: 13 Jul 2018 15:43

Instrument :
MSVOA_N
ClientSampleId :
VN0713WBSD01

Tot Ion	Ratio	Resp	Lower	Upper
113	100	618450		
111	101.6	81.8	122.8	
192	22.4	17.8	26.6	

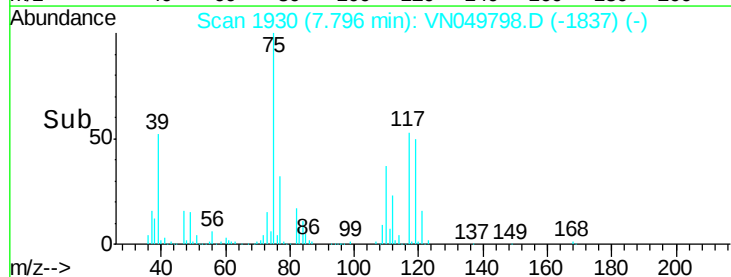
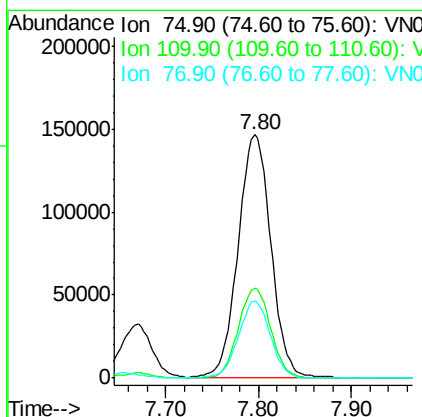
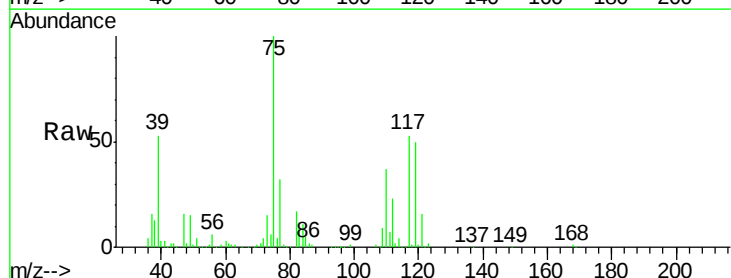
Manual Integrations
APPROVED

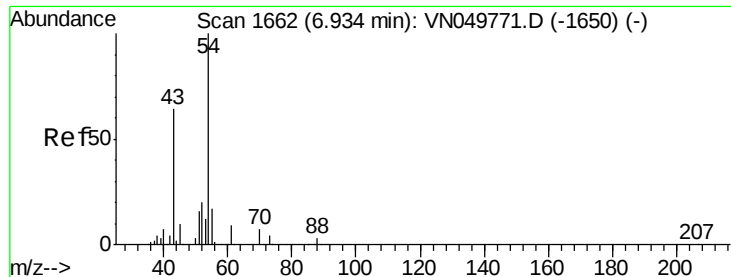
MMDadoda
7/16/2018 11:02:48 AM



#36
1,1-Dichloropropene
Concen: 18.96 ug/l
RT: 7.80 min Scan# 1930
Delta R.T. 0.00 min
Lab File: VN049798.D
Acq: 13 Jul 2018 15:43

Tgt Ion	Ratio	Resp	Lower	Upper
75	100	358115		
110	36.6	18.1	54.4	
77	31.2	24.9	37.3	





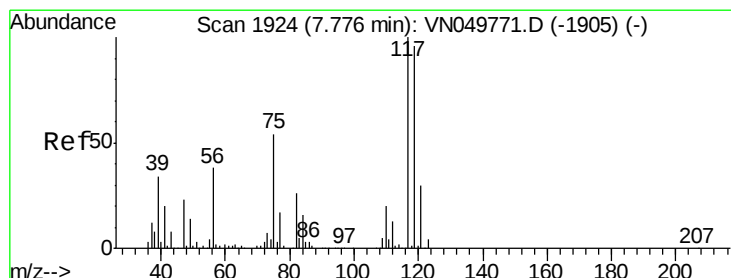
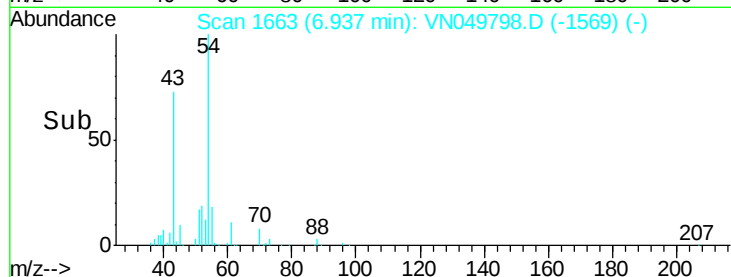
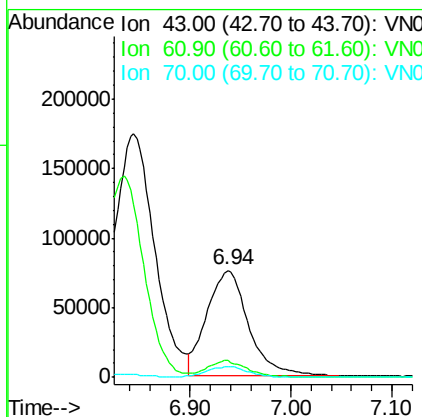
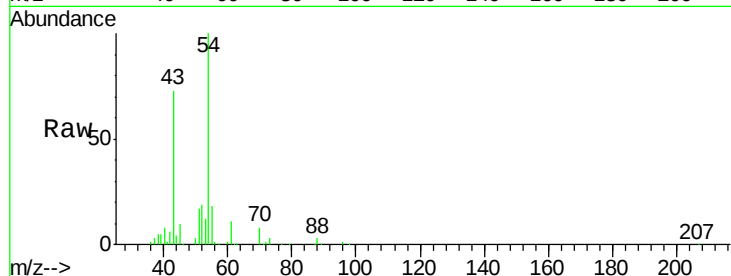
#37
Ethyl Acetate
Concen: 19.48 ug/l
RT: 6.94 min Scan# 1663
Delta R.T. 0.00 min
Lab File: VN049798.D
Acq: 13 Jul 2018 15:43

Instrument :
MSVOA_N
ClientSampleId :
VN0713WBSD01

Tot Ion	Ratio	Lower	Upper
43	100		
61	13.4	11.7	17.5
70	10.3	8.4	12.6

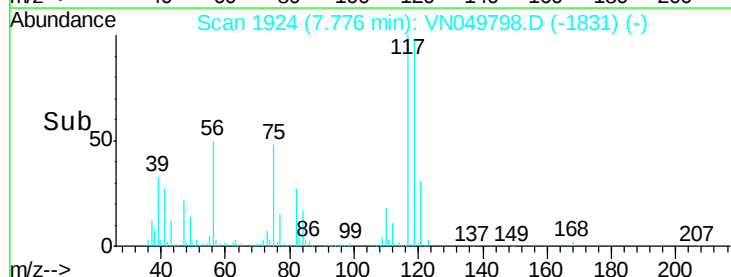
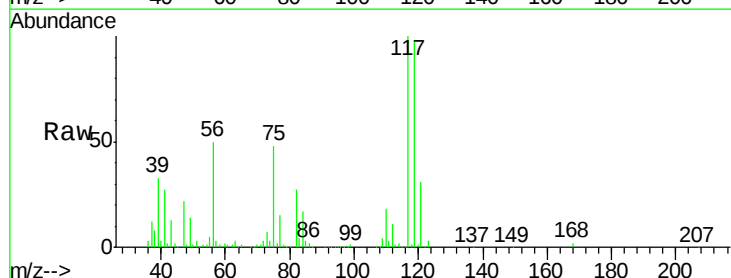
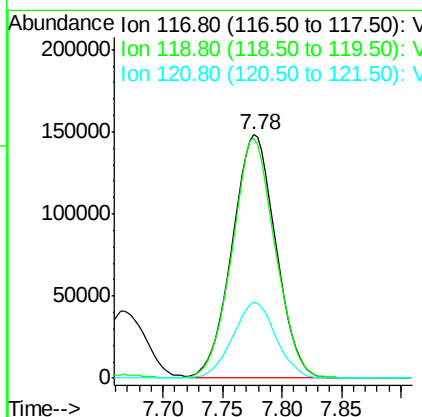
Manual Integrations
APPROVED

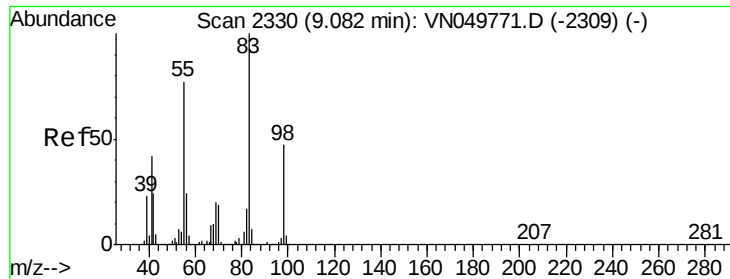
MMDadoda
7/16/2018 11:02:48 AM



#38
Carbon Tetrachloride
Concen: 18.92 ug/l
RT: 7.78 min Scan# 1924
Delta R.T. 0.00 min
Lab File: VN049798.D
Acq: 13 Jul 2018 15:43

Tgt Ion	Ratio	Lower	Upper
117	100		
119	98.2	77.2	115.8
121	31.2	25.0	37.6





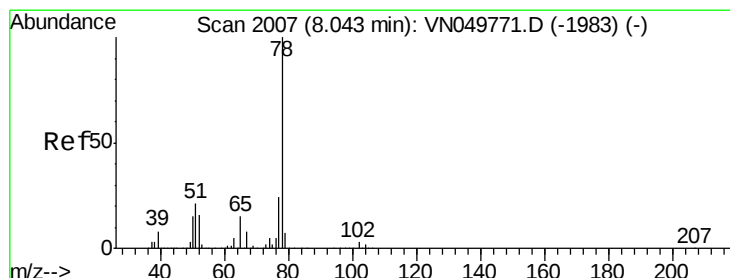
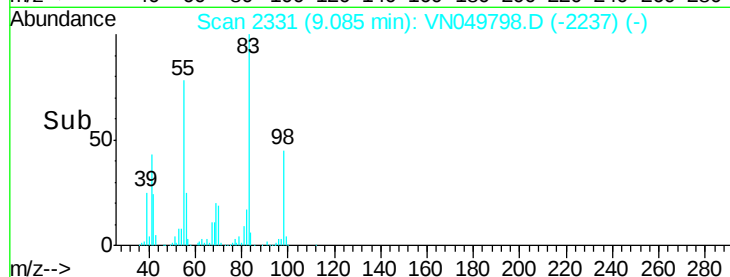
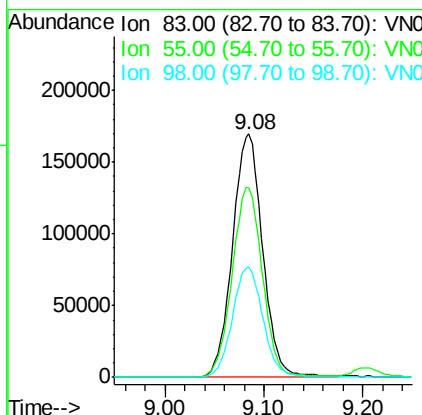
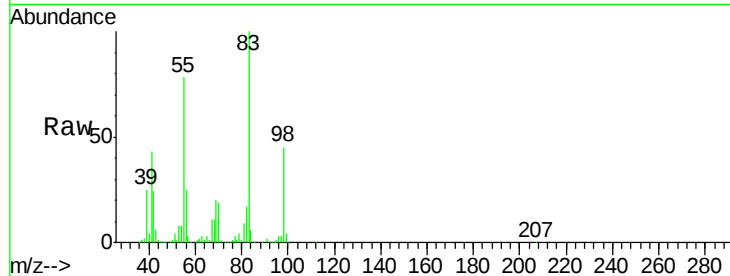
#39
Methvlcvclohexane
Concen: 18.16 ug/l
RT: 9.08 min Scan# 2331
Delta R.T. 0.00 min
Lab File: VN049798.D
Acq: 13 Jul 2018 15:43

Instrument :
MSVOA_N
ClientSampleId :
VN0713WBSD01

Tot Ion	Ratio	Lower	Upper
83	100		
55	77.8	59.7	89.5
98	45.3	36.5	54.7

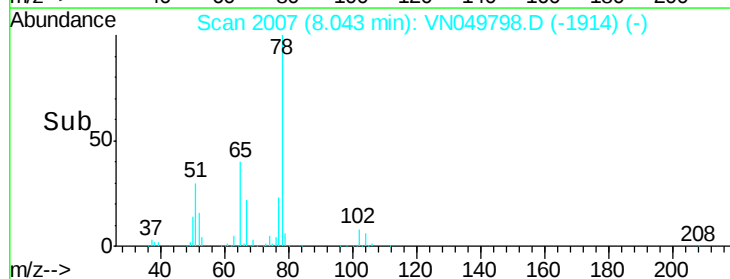
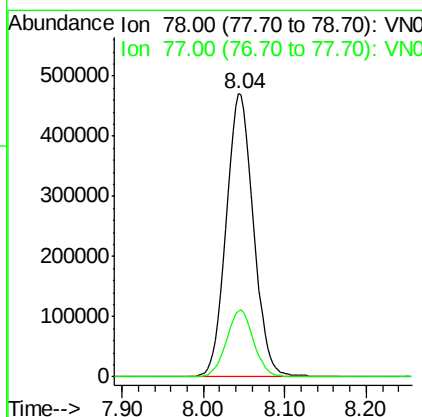
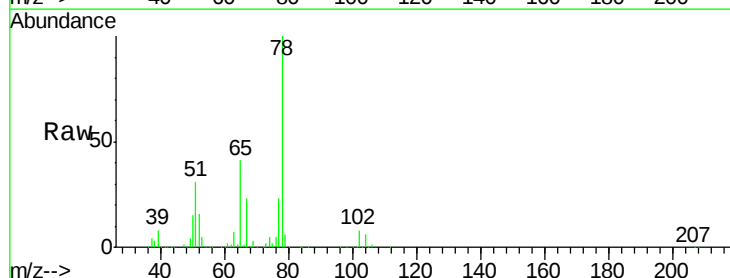
Manual Integrations
APPROVED

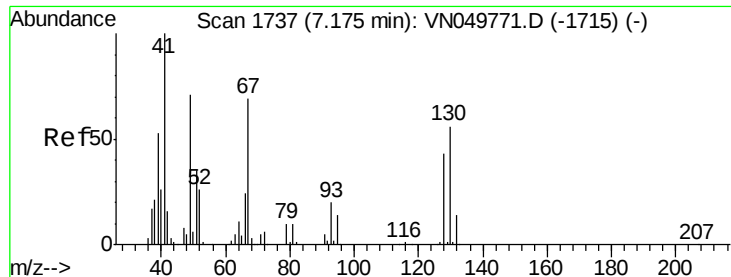
MMDadoda
7/16/2018 11:02:48 AM



#40
Benzene
Concen: 19.58 ug/l
RT: 8.04 min Scan# 2007
Delta R.T. 0.00 min
Lab File: VN049798.D
Acq: 13 Jul 2018 15:43

Tgt Ion	Ratio	Lower	Upper
78	100		
77	23.4	19.0	28.4





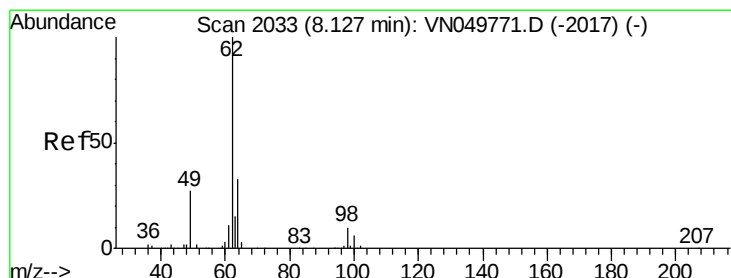
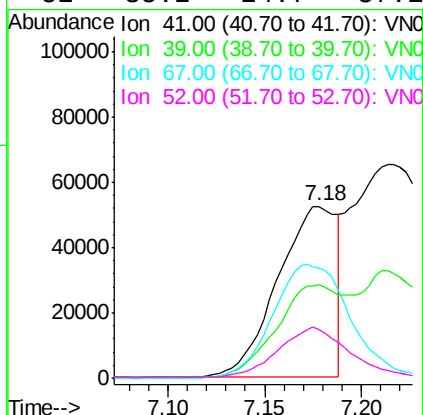
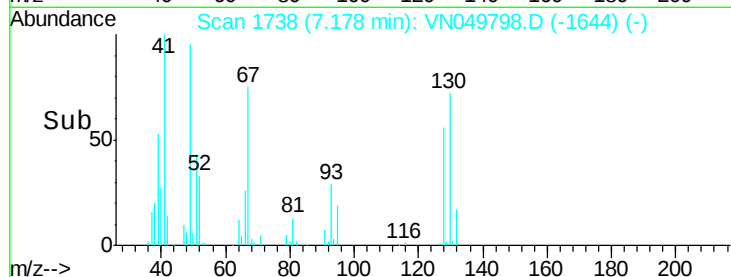
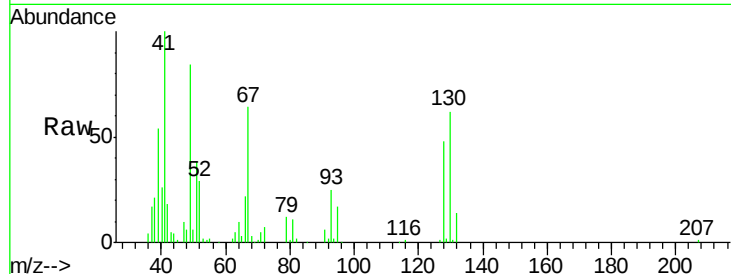
#41
Methacrylonitrile
Concen: 17.54 ug/l
RT: 7.18 min Scan# 1738
Delta R.T. 0.00 min
Lab File: VN049798.D
Acq: 13 Jul 2018 15:43

Instrument :
MSVOA_N
ClientSampleId :
VN0713WBSD01

Tot Ion	Ion	Ratio	Lower	Upper
41	100			
39	59.1	45.4	68.2	
67	88.6	65.4	98.0	
52	35.2	24.7	37.1	

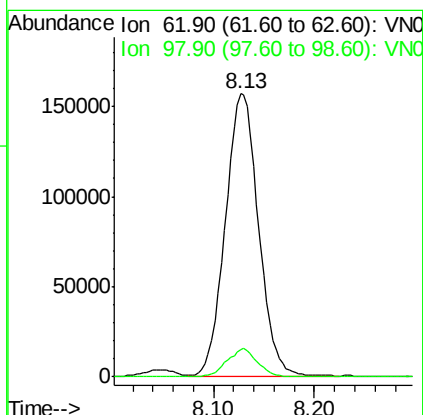
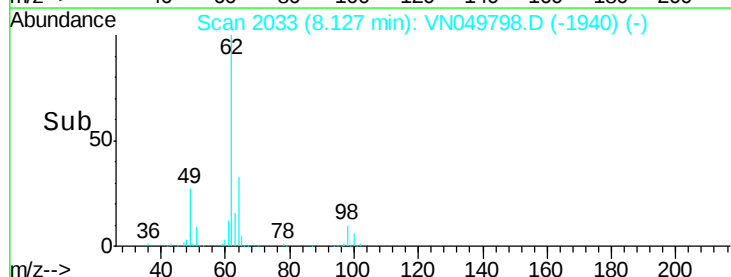
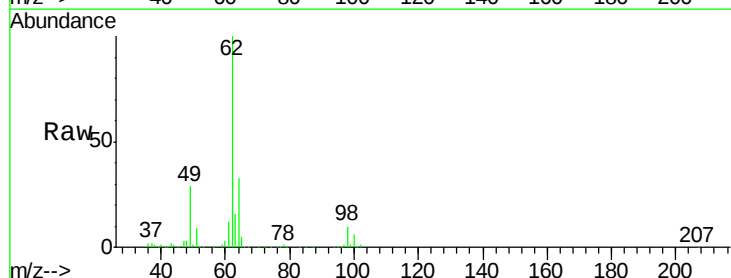
Manual Integrations
APPROVED

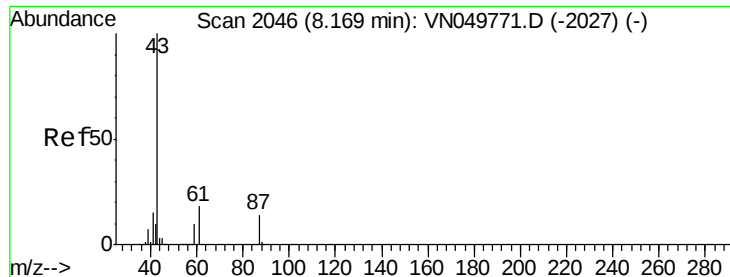
MMDadoda
7/16/2018 11:02:48 AM



#42
1,2-Dichloroethane
Concen: 19.42 ug/l
RT: 8.13 min Scan# 2033
Delta R.T. 0.00 min
Lab File: VN049798.D
Acq: 13 Jul 2018 15:43

Tgt Ion	Ion	Ratio	Lower	Upper
62	100			
98	9.3	0.0	19.0	





#43

Isopropyl Acetate

Concen: 19.77 ug/l

RT: 8.17 min Scan# 2046

Delta R.T. 0.00 min

Lab File: VN049798.D

Acq: 13 Jul 2018 15:43

Instrument :

MSVOA_N

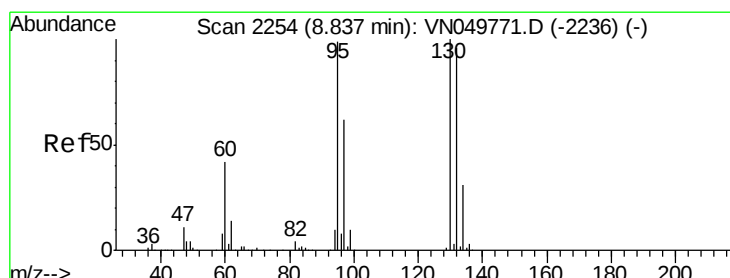
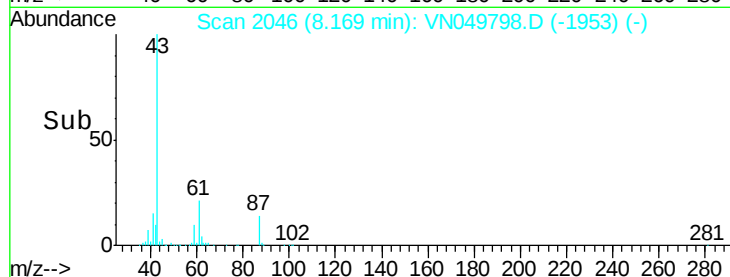
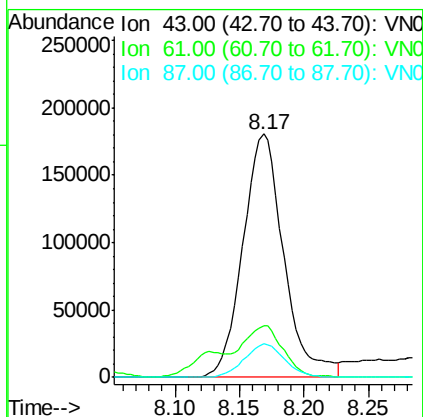
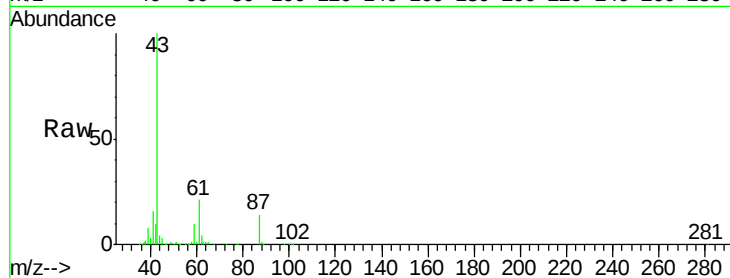
ClientSampleId :

VN0713WBSD01

Tot Ion:	43	Resp:	397223
Ion Ratio		Lower	Upper
43	100		
61	20.4	14.9	22.3
87	13.5	10.0	15.0

Manual Integrations
APPROVED

MMDadoda
7/16/2018 11:02:48 AM



#44

Trichloroethene

Concen: 18.91 ug/l

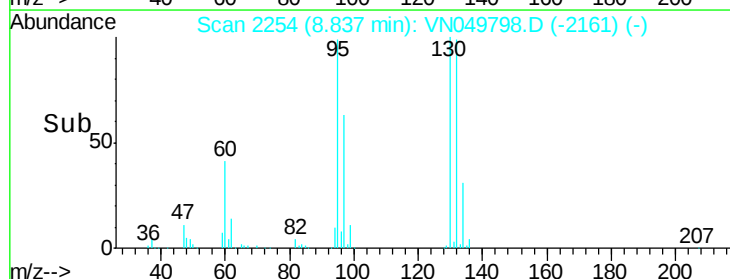
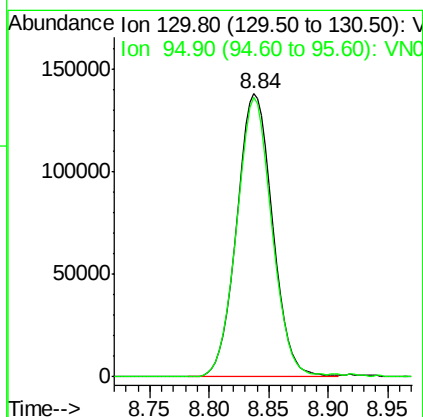
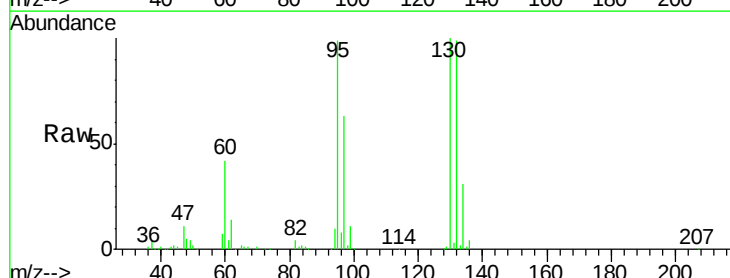
RT: 8.84 min Scan# 2254

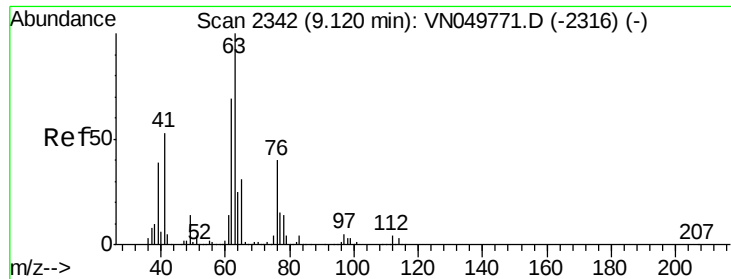
Delta R.T. 0.00 min

Lab File: VN049798.D

Acq: 13 Jul 2018 15:43

Tgt Ion:	130	Resp:	287657
Ion Ratio		Lower	Upper
130	100		
95	98.8	0.0	192.8





#45

1,2-Dichloropropane

Concen: 19.68 ug/l

RT: 9.12 min Scan# 2343

Delta R.T. 0.00 min

Lab File: VN049798.D

Acq: 13 Jul 2018 15:43

Instrument :

MSVOA_N

ClientSampleId :

VN0713WBSD01

Tot Ion: 63 Resp: 298800

Ion Ratio Lower Upper

63 100

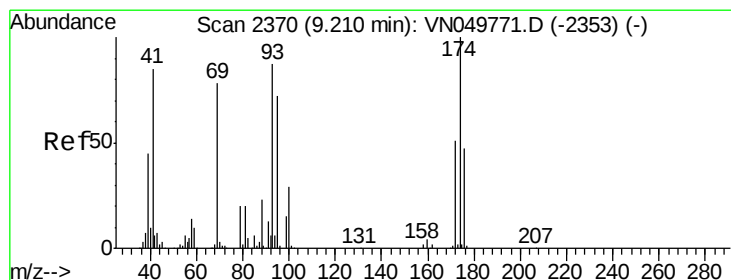
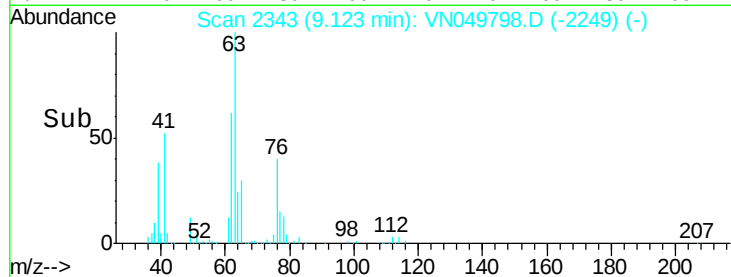
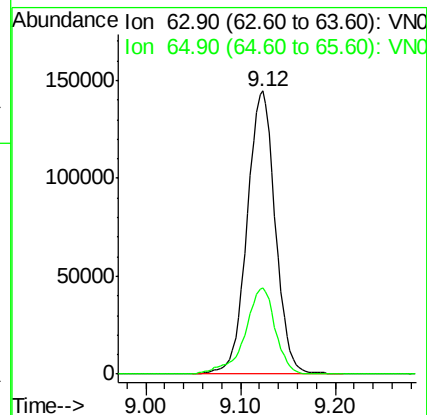
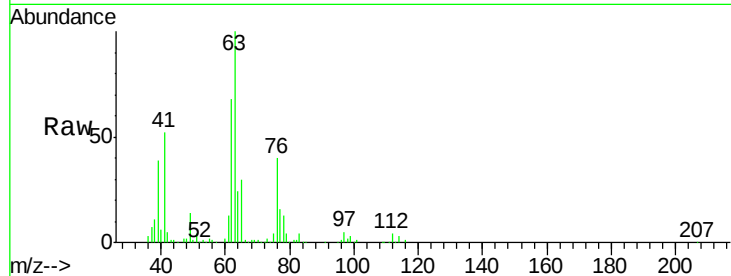
65 30.3 24.7 37.1

Manual Integrations

APPROVED

MMDadoda

7/16/2018 11:02:48 AM



#46

Dibromomethane

Concen: 19.43 ug/l

RT: 9.21 min Scan# 2370

Delta R.T. 0.00 min

Lab File: VN049798.D

Acq: 13 Jul 2018 15:43

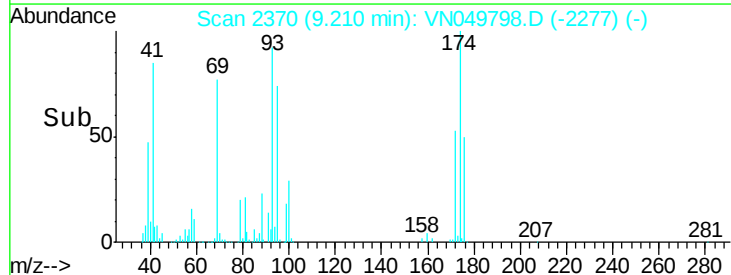
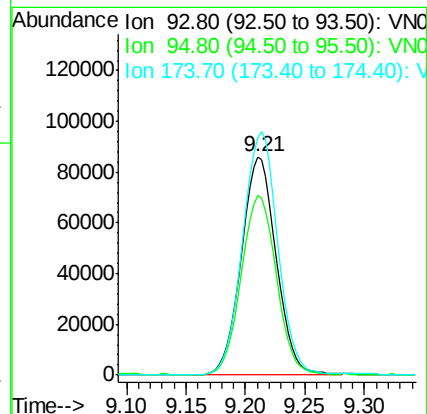
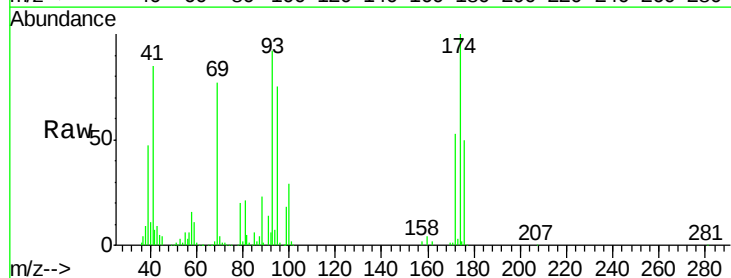
Tgt Ion: 93 Resp: 175194

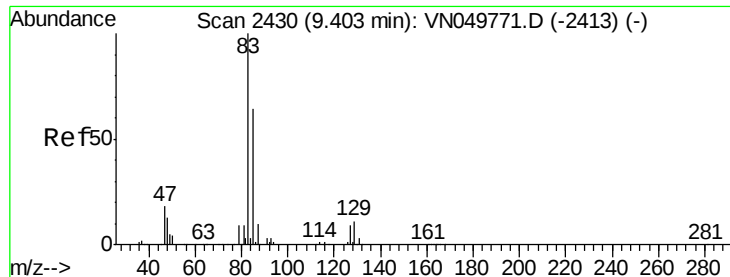
Ion Ratio Lower Upper

93 100

95 82.9 67.9 101.9

174 112.1 89.4 134.0





#47

Bromodichloromethane

Concen: 19.57 ug/l

RT: 9.40 min Scan# 2430

Delta R.T. 0.00 min

Lab File: VN049798.D

Acq: 13 Jul 2018 15:43

Instrument :

MSVOA_N

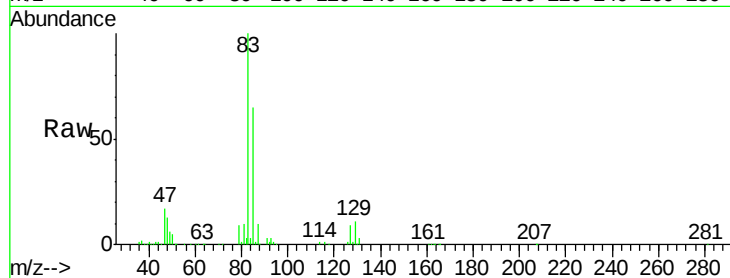
ClientSampled :

VN0713WBSD01

Tot Ion:	83	Resp:	388628
Ion Ratio	Lower	Upper	
83	100		
85	65.3	50.5	75.7
127	9.2	6.8	10.2

Manual Integrations
APPROVED

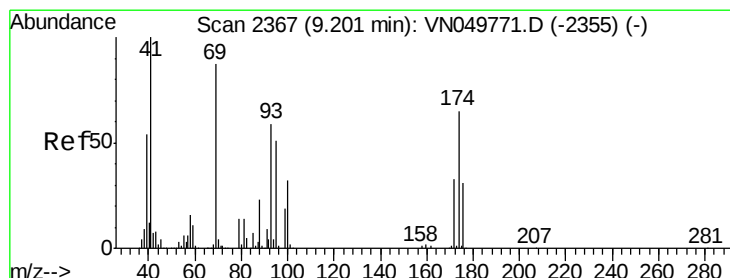
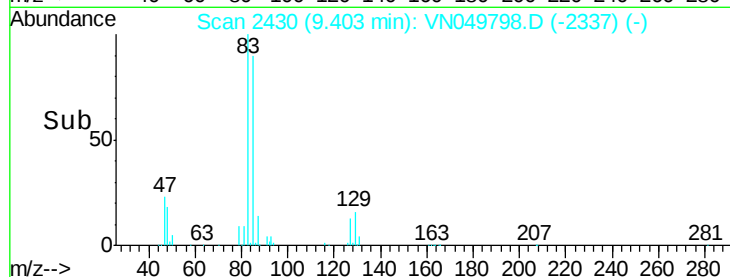
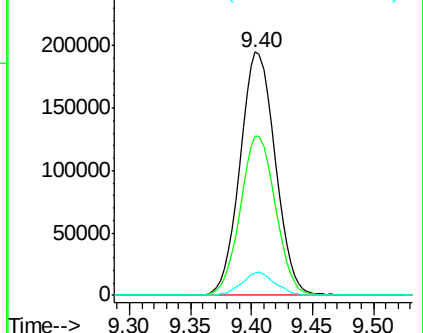
MMDadoda
7/16/2018 11:02:48 AM



Abundance Ion 82.90 (82.60 to 83.60): VN049798.D (-2337) (-)

Ion 84.90 (84.60 to 85.60): VN049798.D (-2337) (-)

Ion 126.80 (126.50 to 127.50): VN049798.D (-2337) (-)



#48

Methyl methacrylate

Concen: 18.78 ug/l

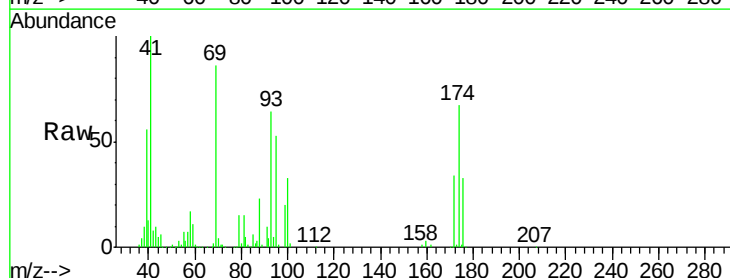
RT: 9.20 min Scan# 2367

Delta R.T. 0.00 min

Lab File: VN049798.D

Acq: 13 Jul 2018 15:43

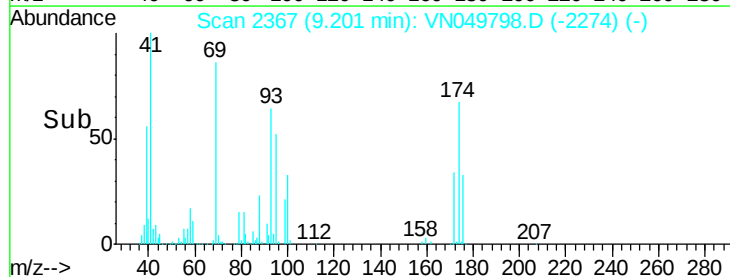
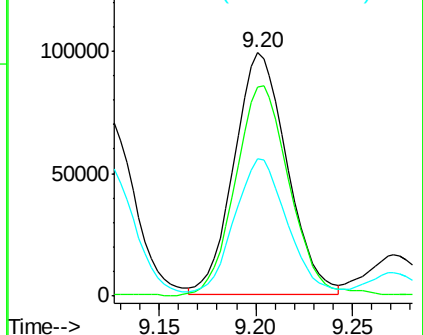
Tgt Ion:	41	Resp:	188689
Ion Ratio	Lower	Upper	
41	100		
69	89.0	71.5	107.3
39	56.7	44.7	67.1

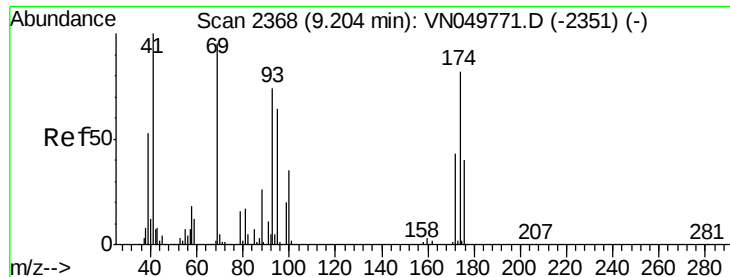


Abundance Ion 41.00 (40.70 to 41.70): VN049798.D (-2274) (-)

Ion 69.00 (68.70 to 69.70): VN049798.D (-2274) (-)

Ion 39.00 (38.70 to 39.70): VN049798.D (-2274) (-)





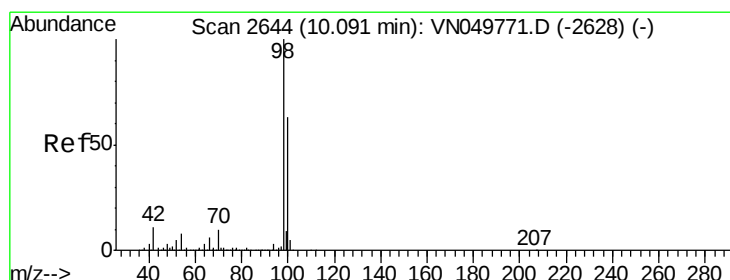
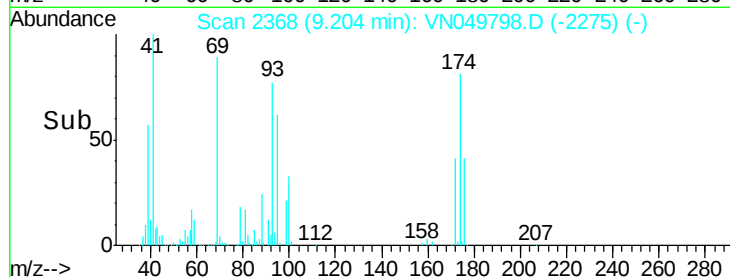
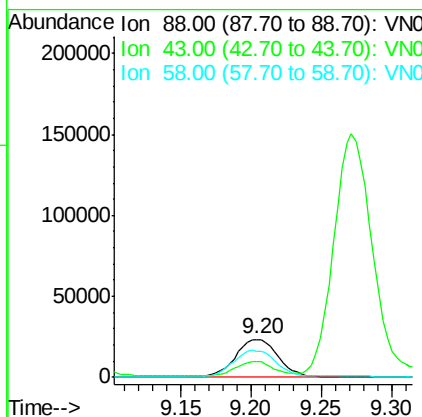
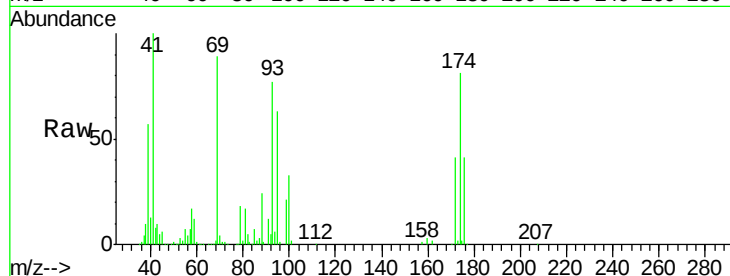
#49
1,4-Dioxane
Concen: 381.86 ug/l
RT: 9.20 min Scan# 2368
Delta R.T. 0.00 min
Lab File: VN049798.D
Acq: 13 Jul 2018 15:43

Instrument :
MSVOA_N
ClientSampleId :
VN0713WBSD01

Tot Ion	Ratio	Lower	Upper
88	100		
43	34.0	25.1	37.7
58	72.1	52.5	78.7

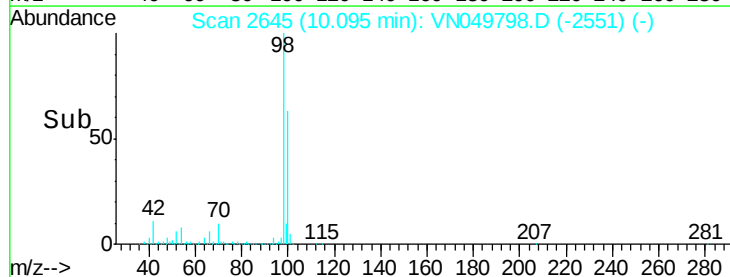
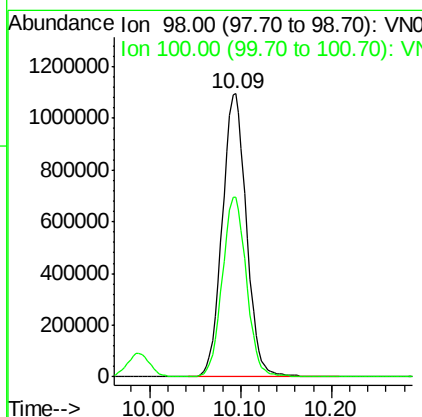
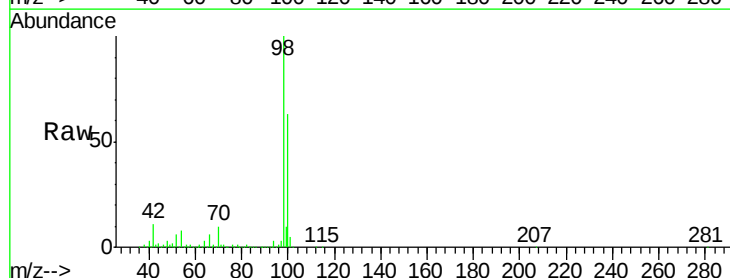
Manual Integrations
APPROVED

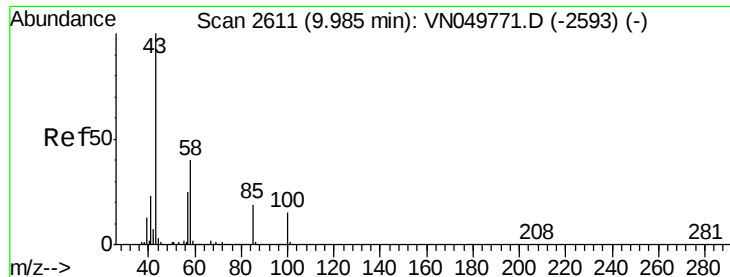
MMDadoda
7/16/2018 11:02:48 AM



#50
Toluene-d8
Concen: 47.85 ug/l
RT: 10.09 min Scan# 2645
Delta R.T. 0.00 min
Lab File: VN049798.D
Acq: 13 Jul 2018 15:43

Tgt Ion	Ratio	Lower	Upper
98	100		
100	63.2	51.7	77.5





#51

4-Methyl-2-Pentanone

Concen: 99.77 ug/l

RT: 9.99 min Scan# 2611

Delta R.T. 0.00 min

Lab File: VN049798.D

Acq: 13 Jul 2018 15:43

Instrument :

MSVOA_N

ClientSampleId :

VN0713WBSD01

Tot Ion: 43 Resp: 1088418

Ion Ratio Lower Upper

43 100

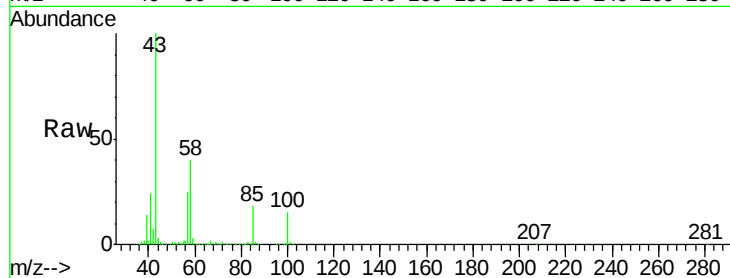
58 39.4 31.8 47.8

Manual Integrations

APPROVED

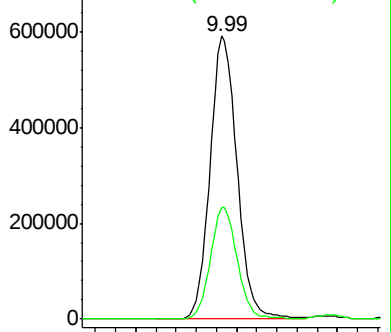
MMDadoda

7/16/2018 11:02:48 AM

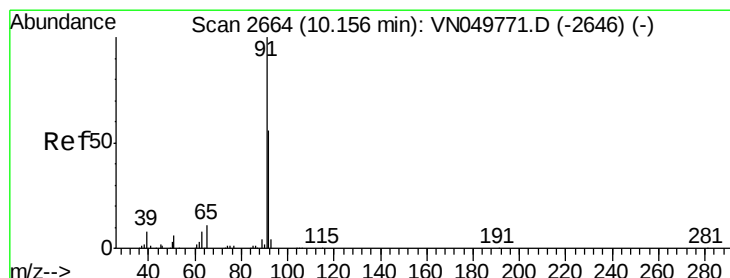
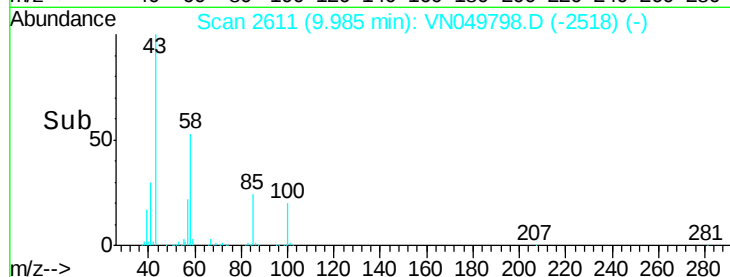


Abundance Ion 43.00 (42.70 to 43.70): VN0

Ion 58.00 (57.70 to 58.70): VN0



Time-->



#52

Toluene

Concen: 20.01 ug/l

RT: 10.16 min Scan# 2664

Delta R.T. 0.00 min

Lab File: VN049798.D

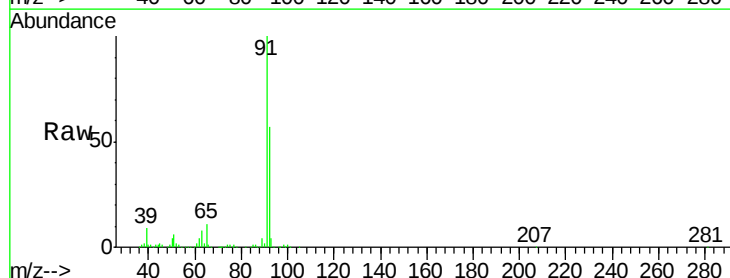
Acq: 13 Jul 2018 15:43

Tgt Ion: 92 Resp: 676585

Ion Ratio Lower Upper

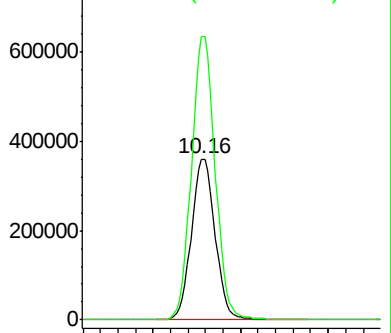
92 100

91 176.0 140.1 210.1

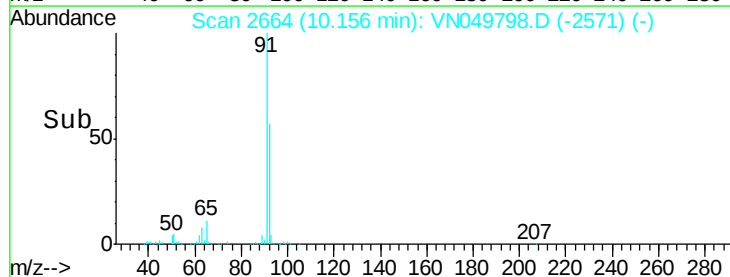


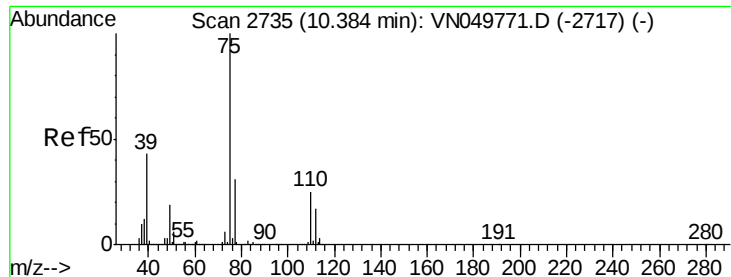
Abundance Ion 92.00 (91.70 to 92.70): VN0

Ion 91.00 (90.70 to 91.70): VN0



Time-->





#53

t-1,3-Dichloropropene

Concen: 19.19 ug/l

RT: 10.38 min Scan# 2735

Delta R.T. 0.00 min

Lab File: VN049798.D

Acq: 13 Jul 2018 15:43

Instrument :

MSVOA_N

ClientSampled :

VN0713WBSD01

Tot Ion: 75 Resp: 366580

Ion Ratio Lower Upper

75 100

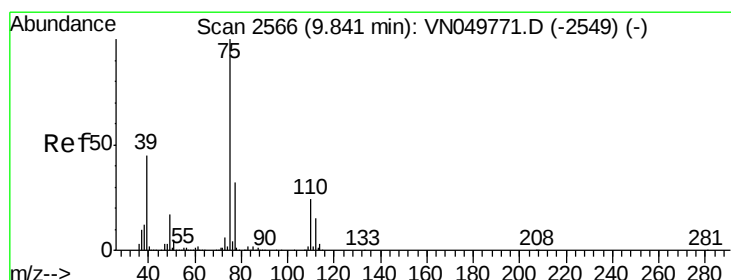
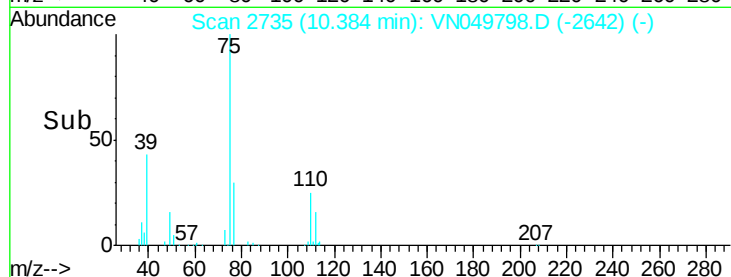
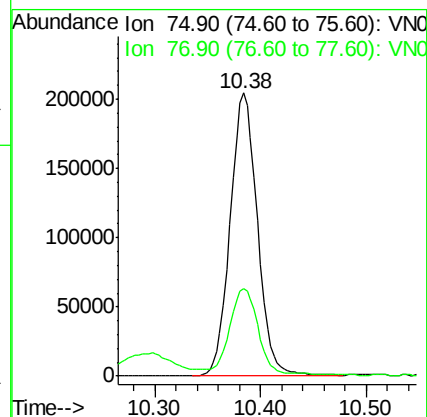
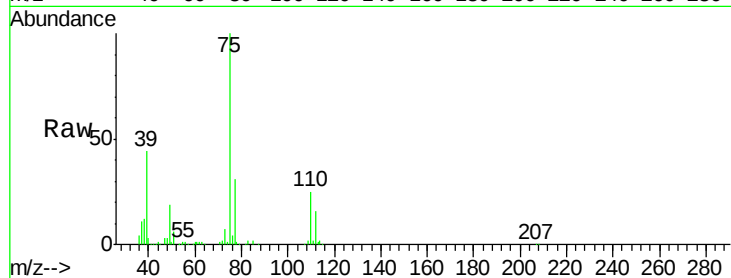
77 30.2 25.2 37.8

Manual Integrations

APPROVED

MMDadoda

7/16/2018 11:02:48 AM



#54

cis-1,3-Dichloropropene

Concen: 19.78 ug/l

RT: 9.84 min Scan# 2566

Delta R.T. 0.00 min

Lab File: VN049798.D

Acq: 13 Jul 2018 15:43

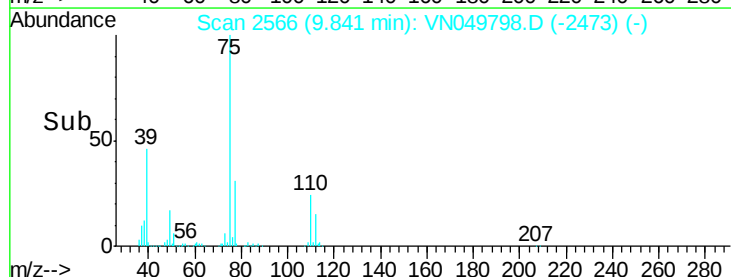
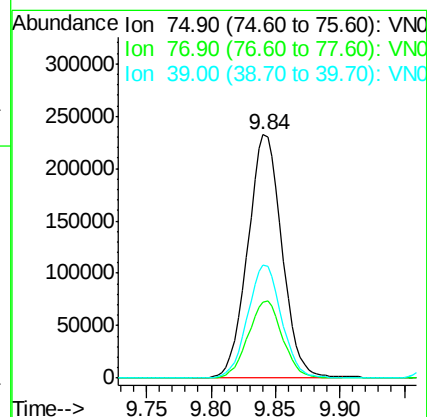
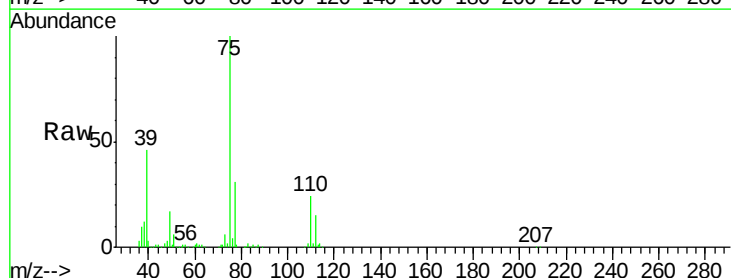
Tgt Ion: 75 Resp: 430238

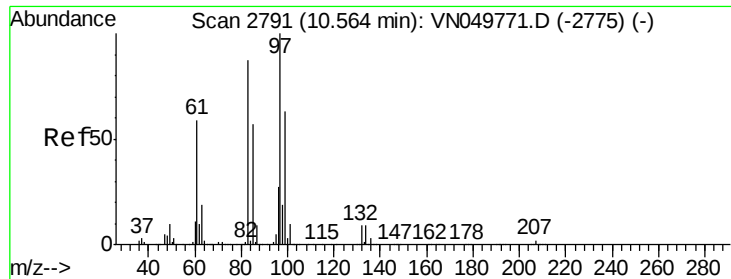
Ion Ratio Lower Upper

75 100

77 31.1 25.3 37.9

39 46.4 35.5 53.3





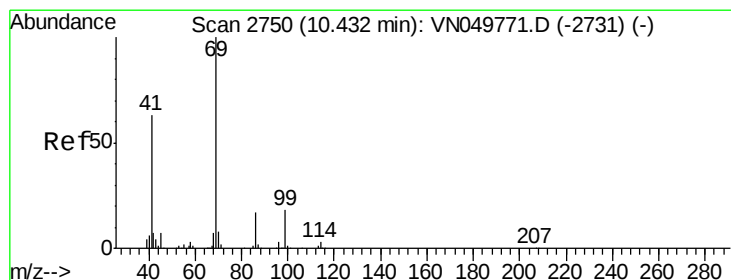
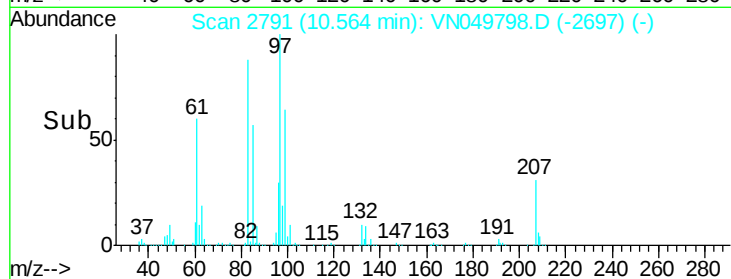
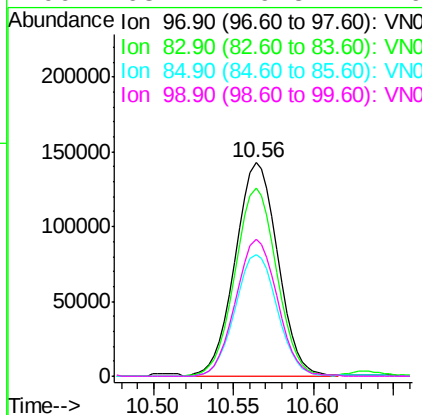
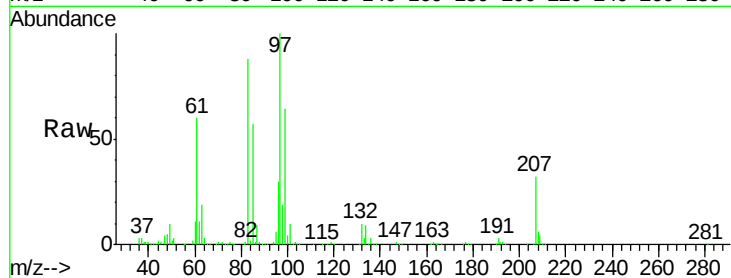
#55
 1,1,2-Trichloroethane
 Concen: 19.91 ug/l
 RT: 10.56 min Scan# 2791
 Delta R.T. 0.00 min
 Lab File: VN049798.D
 Acq: 13 Jul 2018 15:43

Instrument :
 MSVOA_N
 ClientSampleId :
 VN0713WBSD01

Tot Ion	Ion	Ratio	Resp	Lower	Upper
97	100		259877		
83	87.5	69.0	103.6		
85	57.0	44.9	67.3		
99	63.7	49.8	74.6		

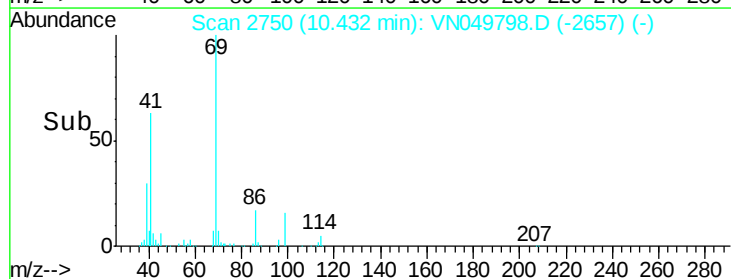
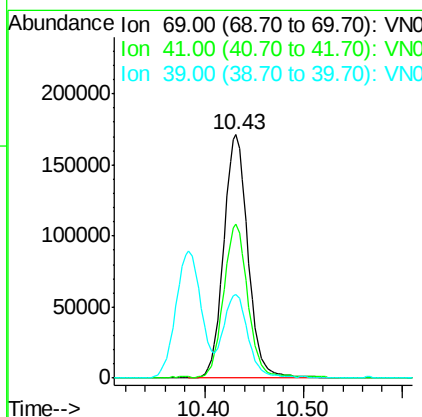
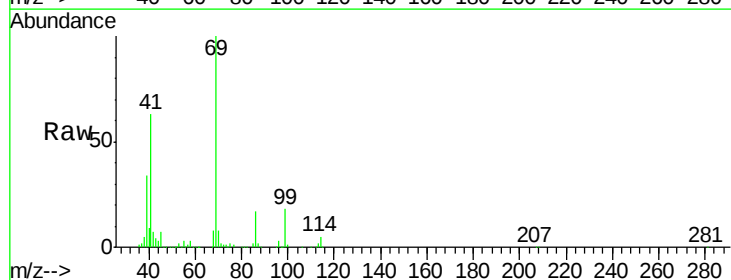
Manual Integrations
 APPROVED

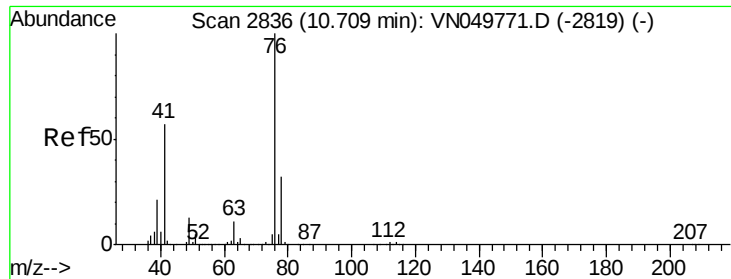
MMDadoda
 7/16/2018 11:02:48 AM



#56
 Ethyl methacrylate
 Concen: 19.49 ug/l
 RT: 10.43 min Scan# 2750
 Delta R.T. 0.00 min
 Lab File: VN049798.D
 Acq: 13 Jul 2018 15:43

Tgt Ion	Ion	Ratio	Resp	Lower	Upper
69	100		297424		
41	62.2	51.6	77.4		
39	34.0	25.8	38.8		





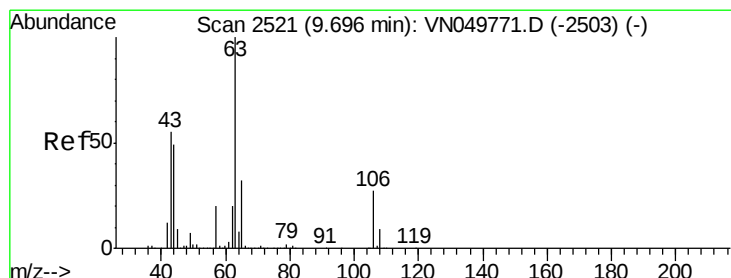
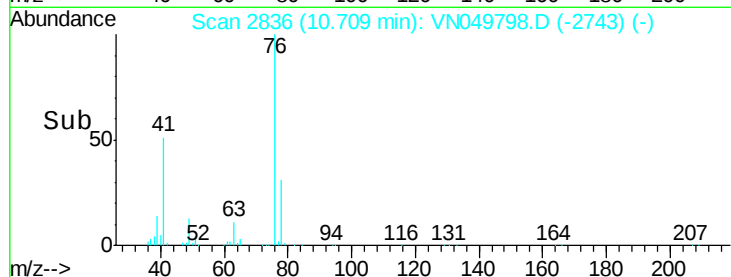
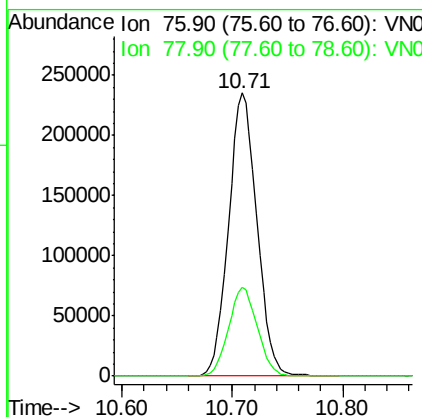
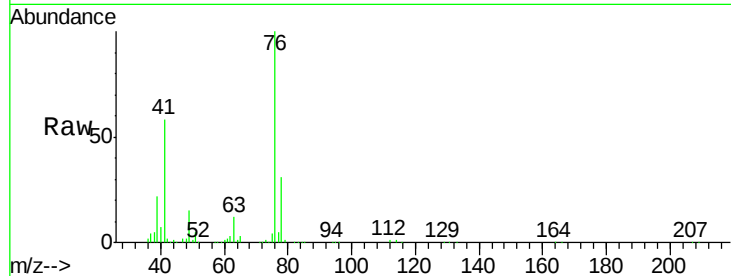
#57
 1,3-Dichloropropane
 Concen: 19.47 ug/l
 RT: 10.71 min Scan# 2836
 Delta R.T. 0.00 min
 Lab File: VN049798.D
 Acq: 13 Jul 2018 15:43

Instrument :
 MSVOA_N
 ClientSampleId :
 VN0713WBSD01

Tot Ion: 76 Resp: 419388
 Ion Ratio Lower Upper
 76 100
 78 31.7 25.8 38.8

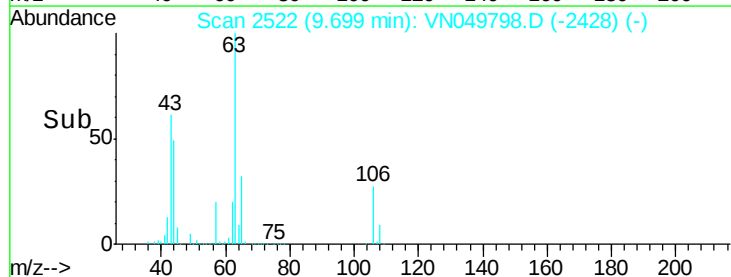
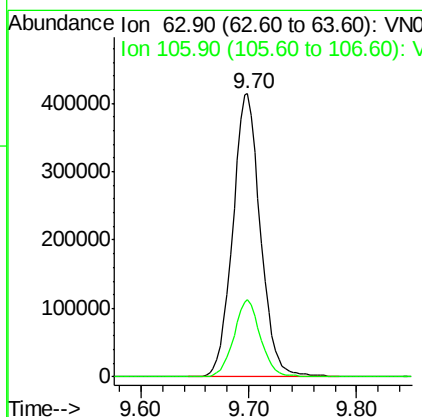
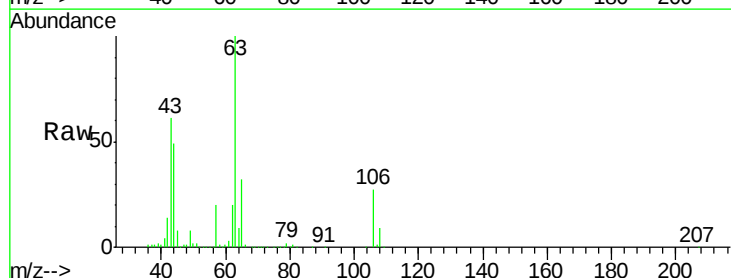
Manual Integrations
 APPROVED

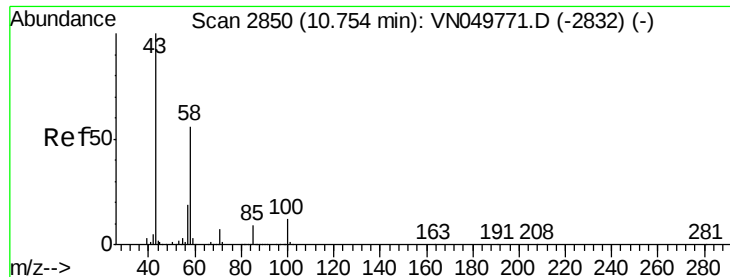
MMDadoda
 7/16/2018 11:02:48 AM



#58
 2-Chloroethyl Vinyl ether
 Concen: 101.21 ug/l
 RT: 9.70 min Scan# 2522
 Delta R.T. 0.00 min
 Lab File: VN049798.D
 Acq: 13 Jul 2018 15:43

Tgt Ion: 63 Resp: 740806
 Ion Ratio Lower Upper
 63 100
 106 26.3 21.8 32.8





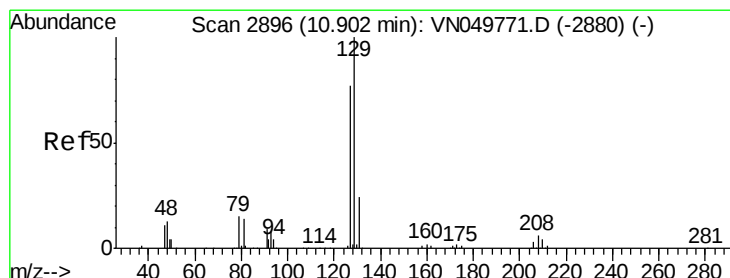
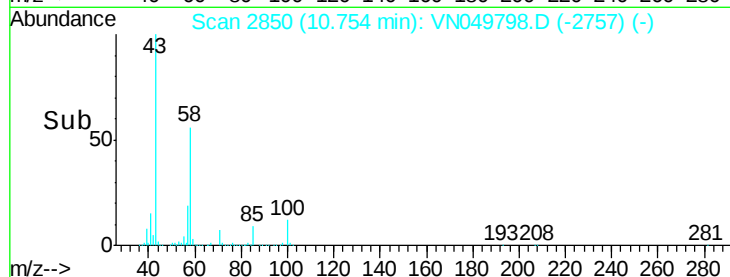
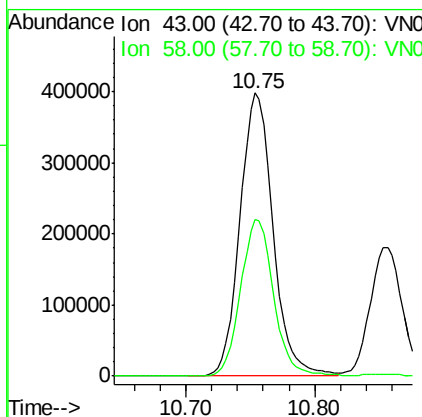
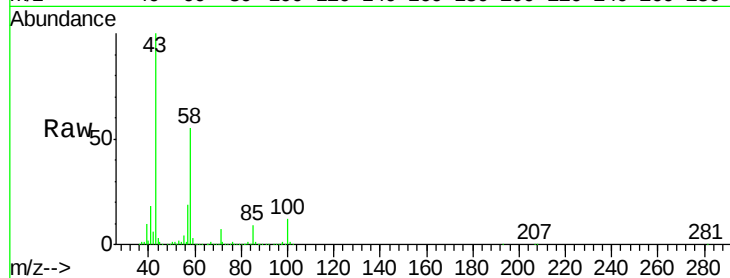
#59
2-Hexanone
Concen: 97.59 ug/l
RT: 10.75 min Scan# 2850
Delta R.T. 0.00 min
Lab File: VN049798.D
Acq: 13 Jul 2018 15:43

Instrument :
MSVOA_N
ClientSampleId :
VN0713WBSD01

Tot Ion: 43 Resp: 707757
Ion Ratio Lower Upper
43 100
58 55.6 27.8 83.4

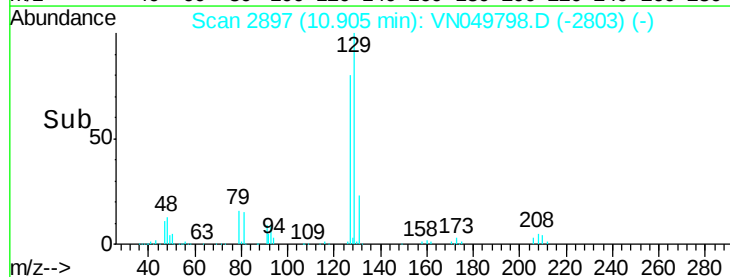
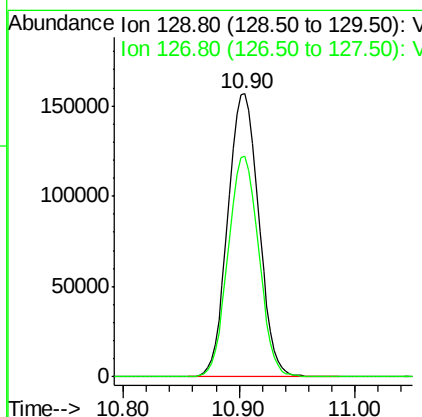
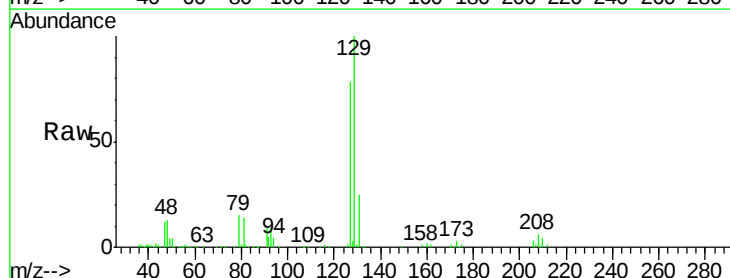
Manual Integrations
APPROVED

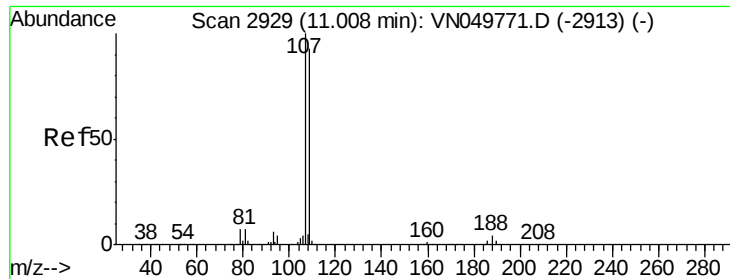
MMDadoda
7/16/2018 11:02:48 AM



#60
Dibromochloromethane
Concen: 19.56 ug/l
RT: 10.90 min Scan# 2897
Delta R.T. 0.00 min
Lab File: VN049798.D
Acq: 13 Jul 2018 15:43

Tgt Ion: 129 Resp: 289749
Ion Ratio Lower Upper
129 100
127 77.1 38.3 114.9





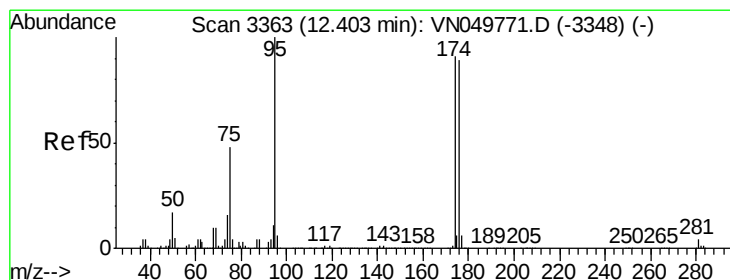
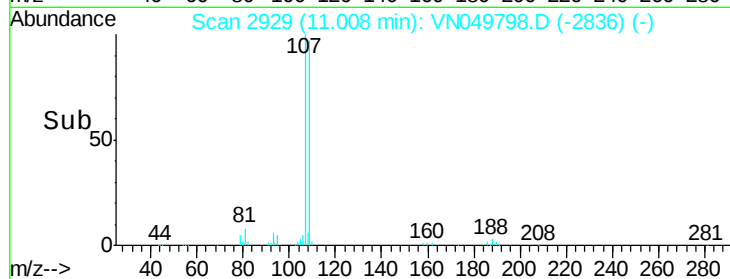
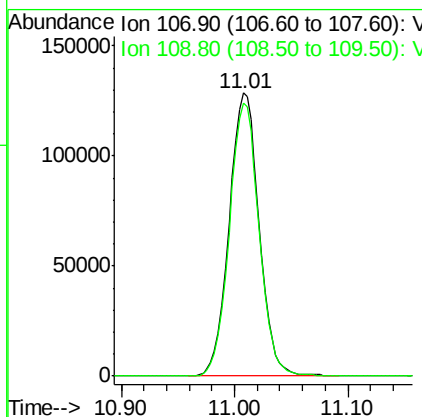
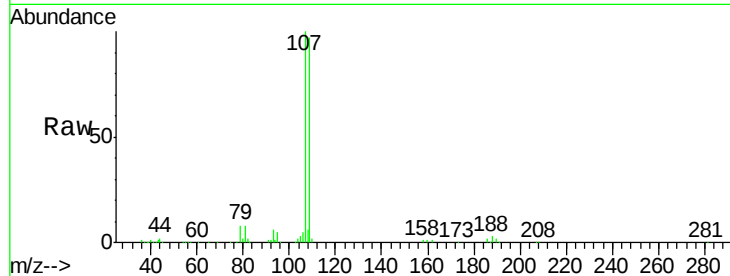
#61
 1,2-Dibromoethane
 Concen: 19.20 ug/l
 RT: 11.01 min Scan# 2929
 Delta R.T. 0.00 min
 Lab File: VN049798.D
 Acq: 13 Jul 2018 15:43

Instrument :
 MSVOA_N
 ClientSampleId :
 VN0713WBSD01

Tot Ion	Ratio	Lower	Upper
107	100		
109	95.8	75.0	112.6

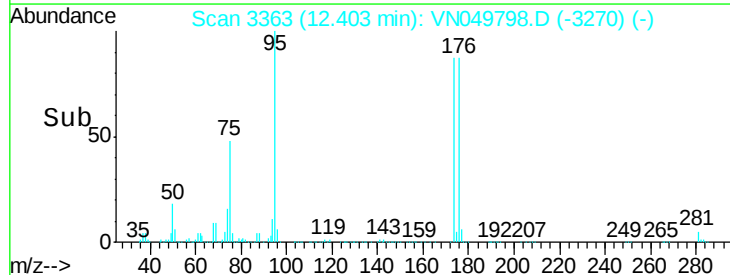
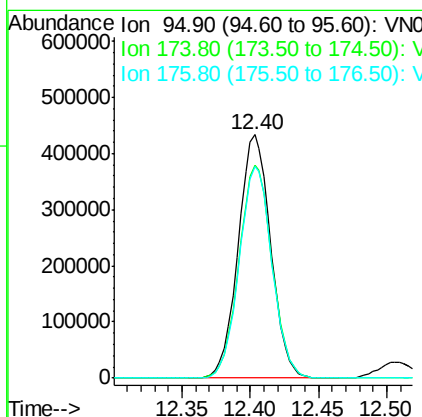
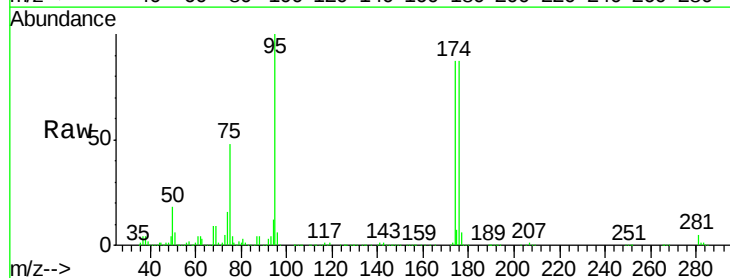
Manual Integrations
 APPROVED

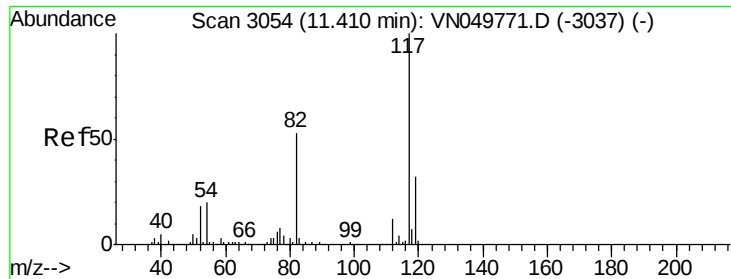
MMDadoda
 7/16/2018 11:02:48 AM



#62
 4-Bromofluorobenzene
 Concen: 47.36 ug/l
 RT: 12.40 min Scan# 3363
 Delta R.T. 0.00 min
 Lab File: VN049798.D
 Acq: 13 Jul 2018 15:43

Tgt Ion	Ratio	Lower	Upper
95	100		
174	89.1	0.0	179.6
176	87.8	0.0	174.0





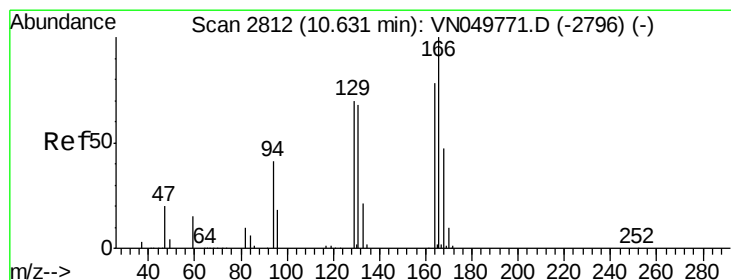
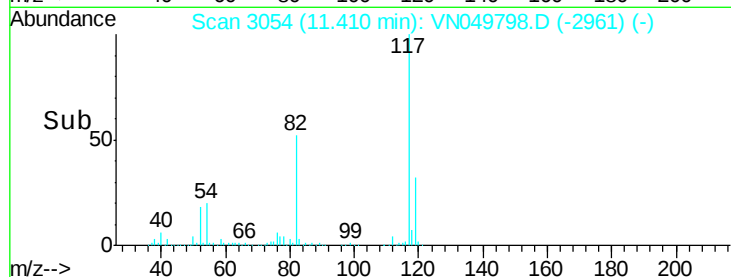
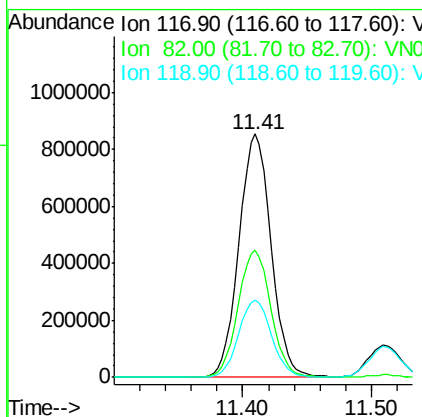
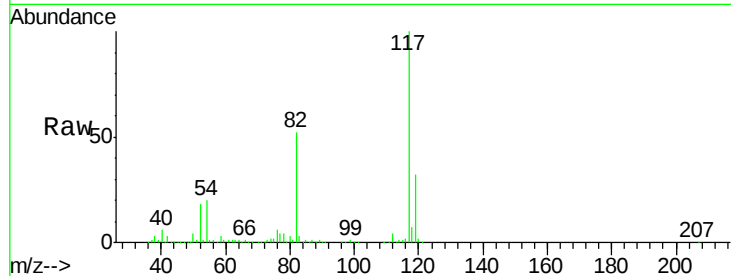
#63
Chlorobenzene-d5
Concen: 50.00 ug/l
RT: 11.41 min Scan# 3054
Delta R.T. 0.00 min
Lab File: VN049798.D
Acq: 13 Jul 2018 15:43

Instrument :
MSVOA_N
ClientSampleId :
VN0713WBSD01

Tot Ion:117 Resp: 1484144
Ion Ratio Lower Upper
117 100
82 52.0 41.9 62.9
119 31.7 25.4 38.2

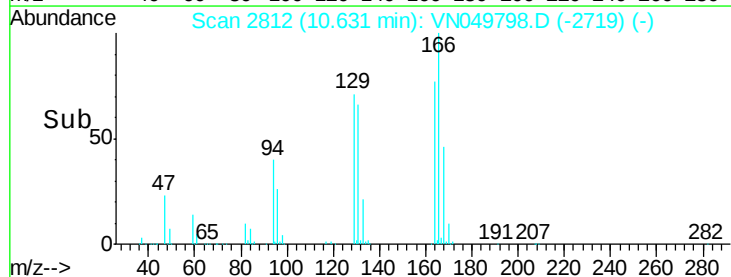
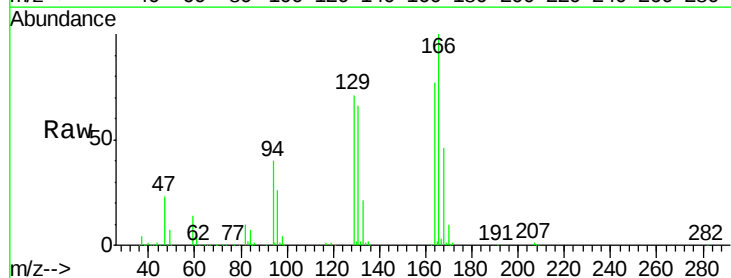
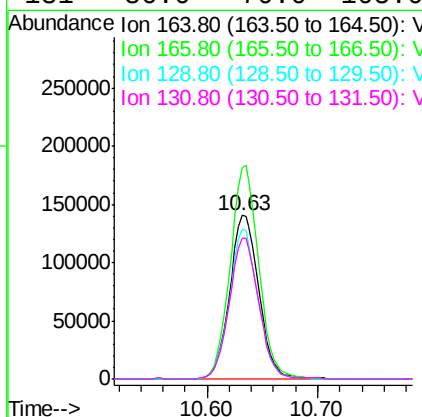
Manual Integrations
APPROVED

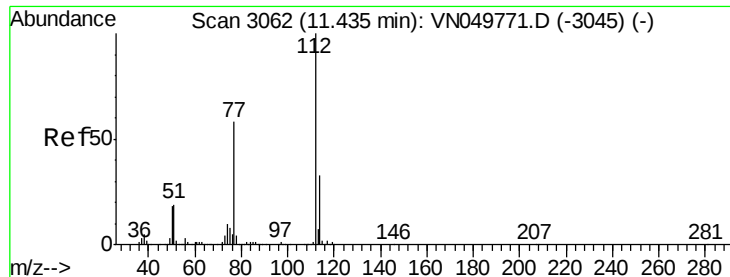
MMDadoda
7/16/2018 11:02:48 AM



#64
Tetrachloroethene
Concen: 19.11 ug/l
RT: 10.63 min Scan# 2812
Delta R.T. 0.00 min
Lab File: VN049798.D
Acq: 13 Jul 2018 15:43

Tgt Ion:164 Resp: 257521
Ion Ratio Lower Upper
164 100
166 129.5 101.8 152.6
129 91.9 72.8 109.2
131 86.0 70.0 105.0





#65

Chlorobenzene

Concen: 19.27 ug/l

RT: 11.44 min Scan# 3062

Delta R.T. 0.00 min

Lab File: VN049798.D

Acq: 13 Jul 2018 15:43

Instrument :

MSVOA_N

ClientSampleId :

VN0713WBSD01

Tot Ion:112 Resp: 745006

Ion Ratio Lower Upper

112 100

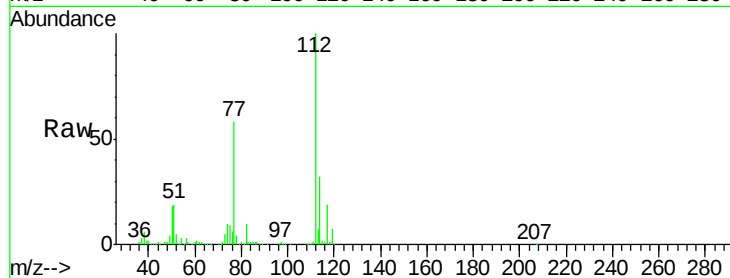
114 32.5 25.4 38.0

Manual Integrations

APPROVED

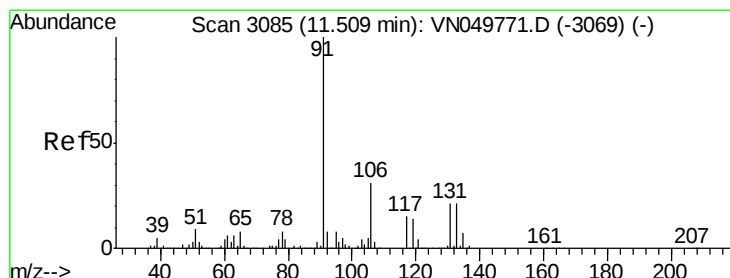
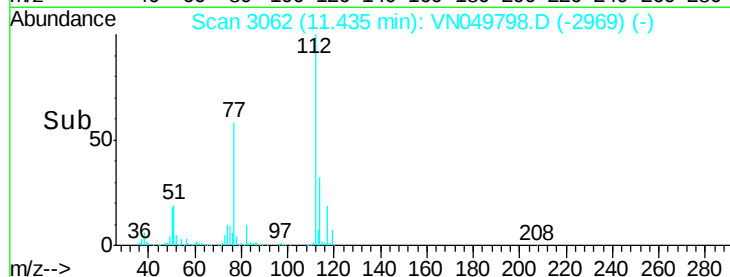
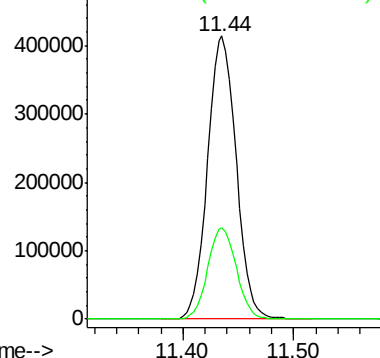
MMDadoda

7/16/2018 11:02:48 AM



Abundance Ion 111.90 (111.60 to 112.60): V

Ion 113.90 (113.60 to 114.60): V



#66

1,1,1,2-Tetrachloroethane

Concen: 20.00 ug/l

RT: 11.51 min Scan# 3085

Delta R.T. 0.00 min

Lab File: VN049798.D

Acq: 13 Jul 2018 15:43

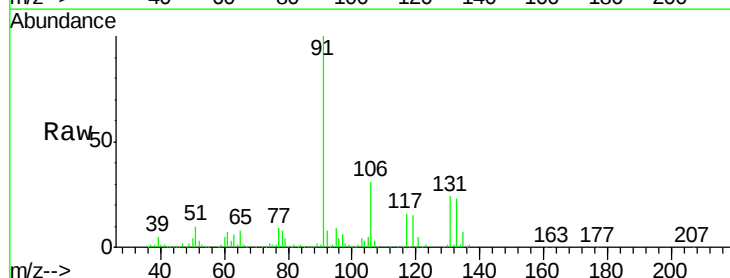
Tgt Ion:131 Resp: 290870

Ion Ratio Lower Upper

131 100

133 95.8 47.5 142.6

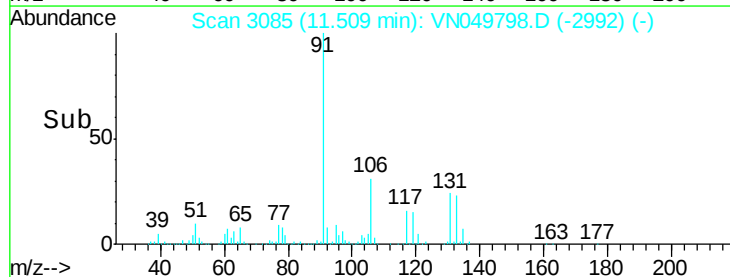
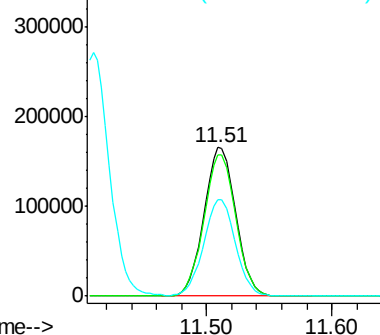
119 65.1 33.1 99.3

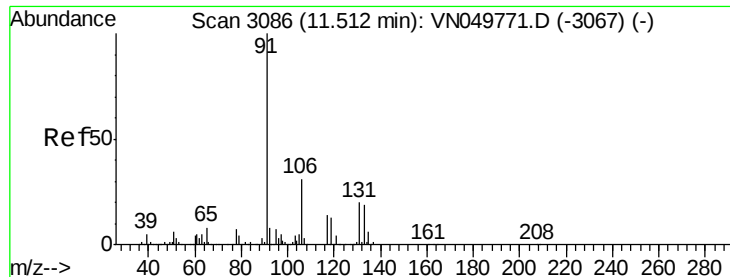


Abundance Ion 130.80 (130.50 to 131.50): V

Ion 132.80 (132.50 to 133.50): V

Ion 118.80 (118.50 to 119.50): V





#67

Ethyl Benzene

Concen: 19.33 ug/l

RT: 11.51 min Scan# 3086

Delta R.T. 0.00 min

Lab File: VN049798.D

Acq: 13 Jul 2018 15:43

Instrument :

MSVOA_N

ClientSampleId :

VN0713WBSD01

Tot Ion: 91 Resp: 1224052

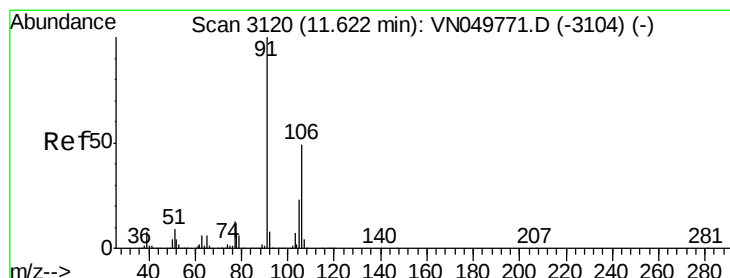
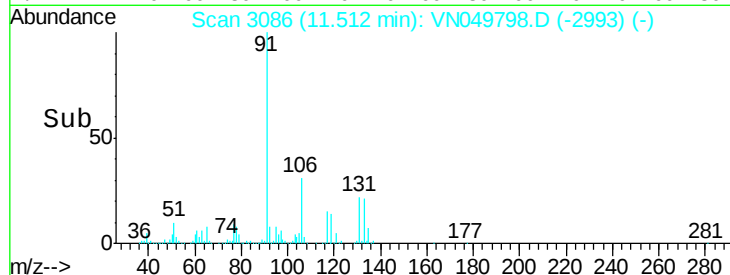
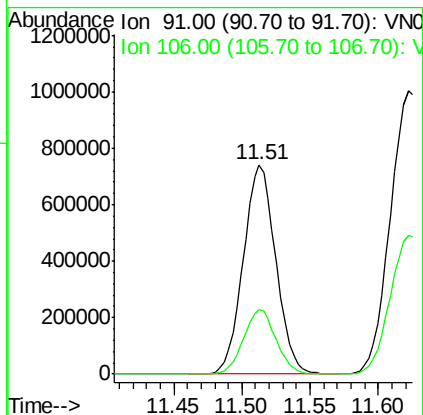
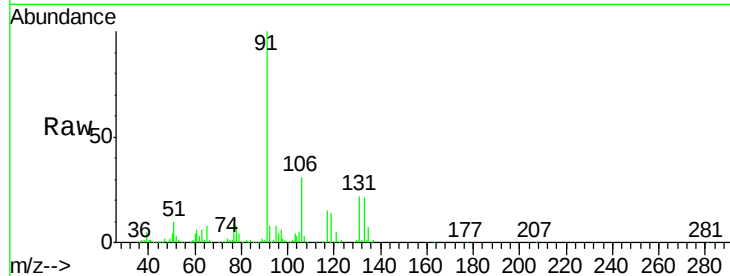
Ion Ratio Lower Upper

91 100

106 31.1 24.8 37.2

Manual Integrations
APPROVED

MMDadoda
7/16/2018 11:02:48 AM



#68

m/p-Xylenes

Concen: 40.15 ug/l

RT: 11.62 min Scan# 3120

Delta R.T. 0.00 min

Lab File: VN049798.D

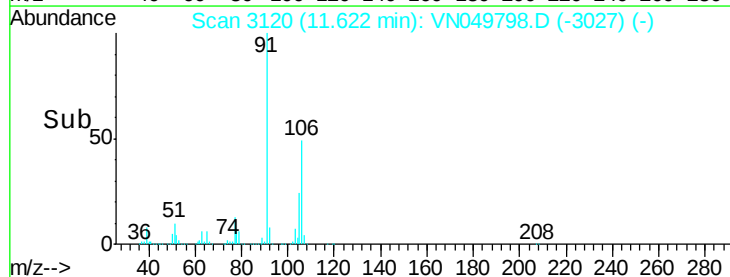
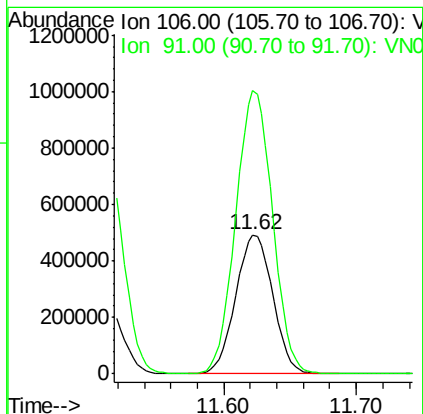
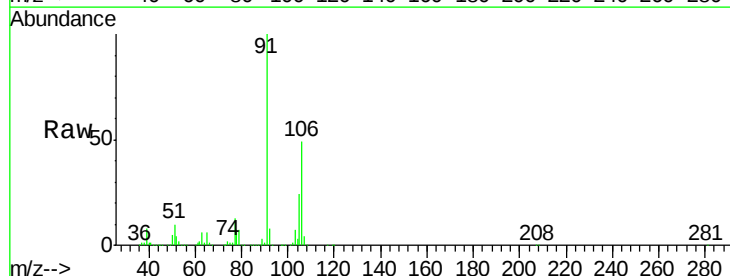
Acq: 13 Jul 2018 15:43

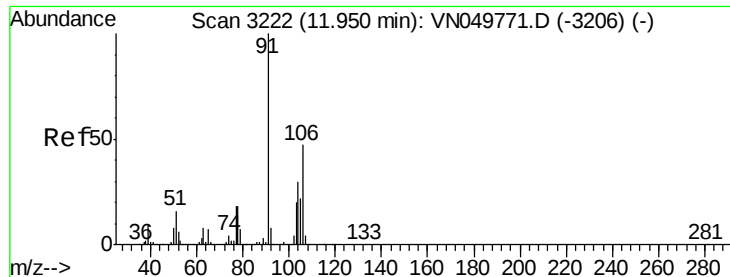
Tgt Ion: 106 Resp: 954204

Ion Ratio Lower Upper

106 100

91 202.7 163.4 245.2





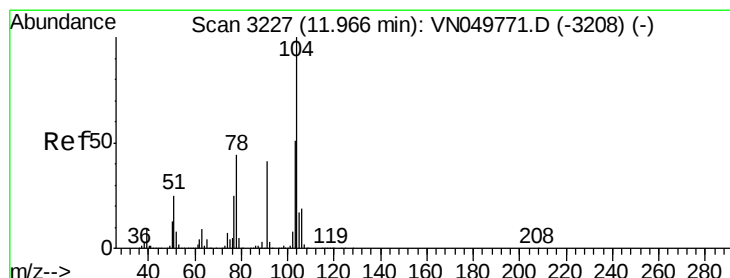
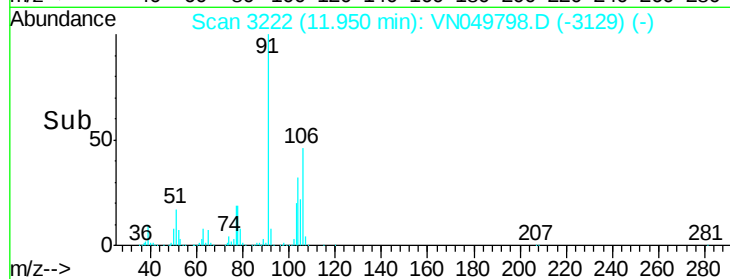
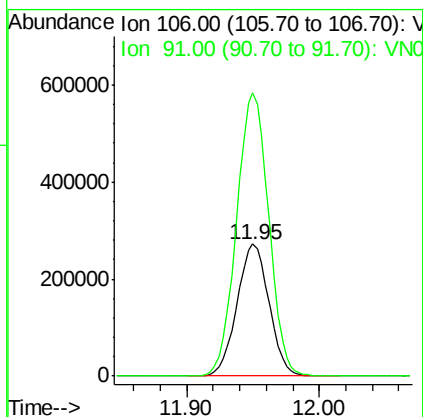
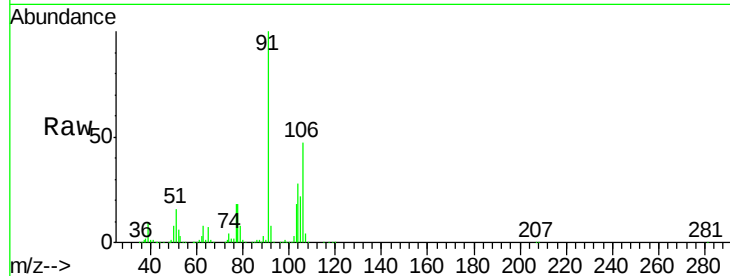
#69
o-Xylene
Concen: 19.91 ug/l
RT: 11.95 min Scan# 3222
Delta R.T. 0.00 min
Lab File: VN049798.D
Acq: 13 Jul 2018 15:43

Instrument :
MSVOA_N
ClientSampleId :
VN0713WBSD01

Tot Ion:106 Resp: 457069
Ion Ratio Lower Upper
106 100
91 214.8 108.7 326.1

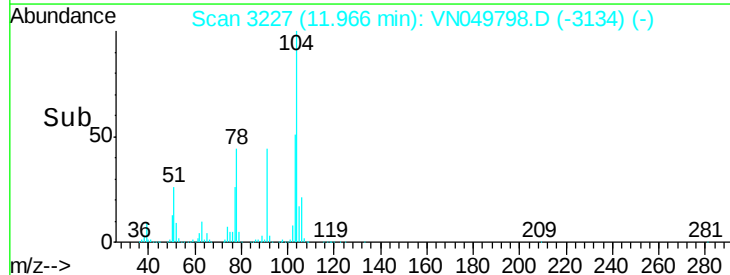
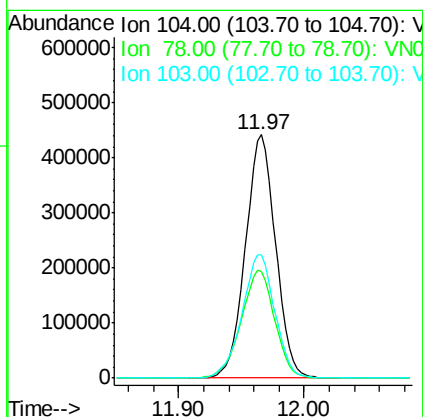
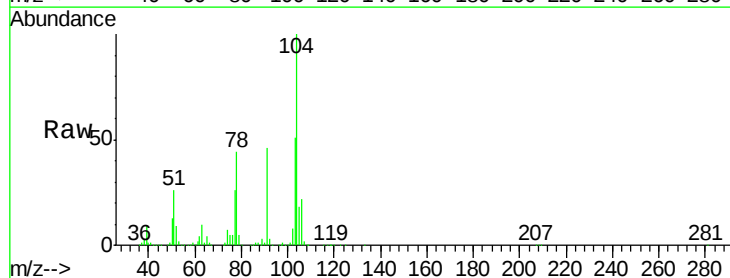
Manual Integrations
APPROVED

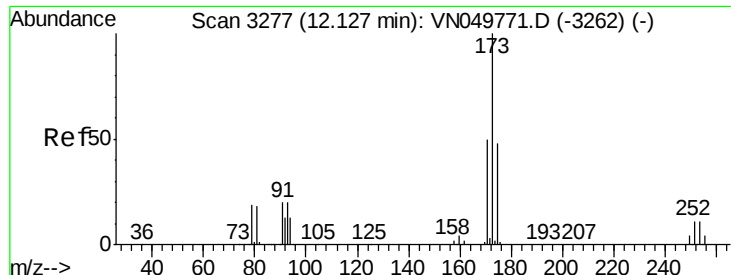
MMDadoda
7/16/2018 11:02:48 AM



#70
Styrene
Concen: 20.33 ug/l
RT: 11.97 min Scan# 3227
Delta R.T. 0.00 min
Lab File: VN049798.D
Acq: 13 Jul 2018 15:43

Tgt Ion:104 Resp: 741370
Ion Ratio Lower Upper
104 100
78 49.3 39.2 58.8
103 55.0 44.6 67.0





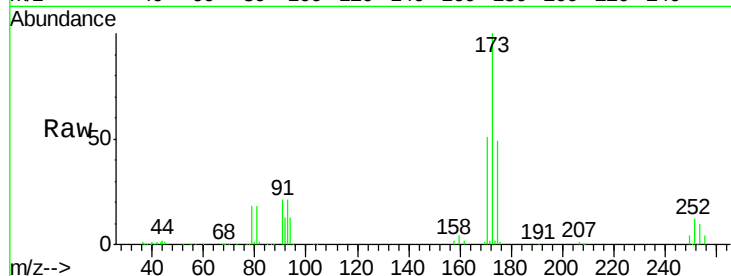
#71
Bromoform
Concen: 19.46 ug/l
RT: 12.13 min Scan# 3277
Delta R.T. 0.00 min
Lab File: VN049798.D
Acq: 13 Jul 2018 15:43

Instrument :
MSVOA_N
ClientSampleId :
VN0713WBSD01

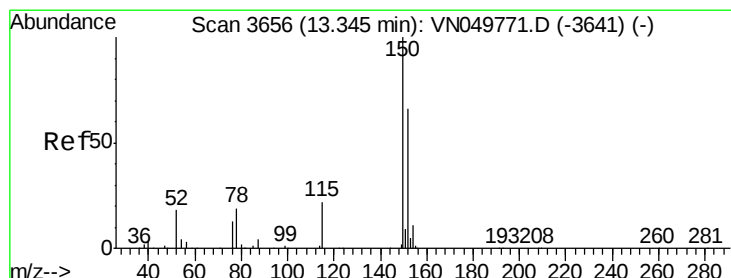
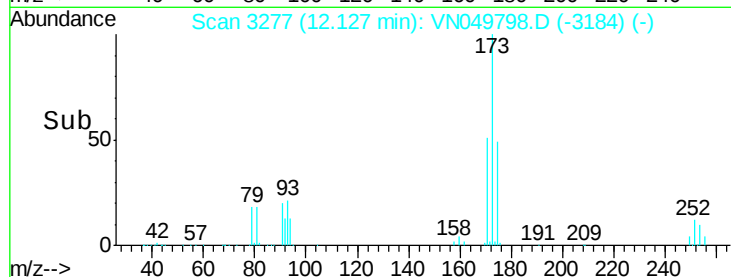
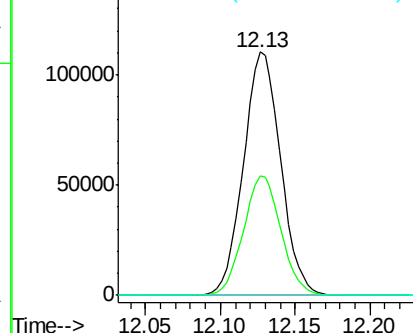
Tot Ion	Ratio	Lower	Upper
173	100		
175	49.3	24.6	73.8
254	0.1	0.2	0.2#

Manual Integrations
APPROVED

MMDadoda
7/16/2018 11:02:48 AM

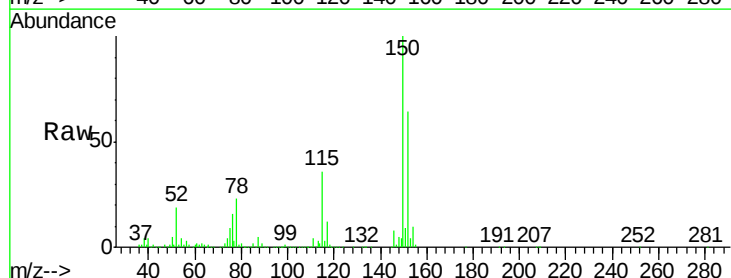


Abundance Ion 172.70 (172.40 to 173.40): V
Ion 174.70 (174.40 to 175.40): V
Ion 254.40 (254.10 to 255.10): V

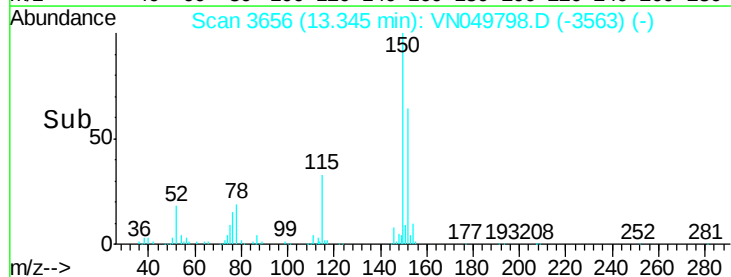
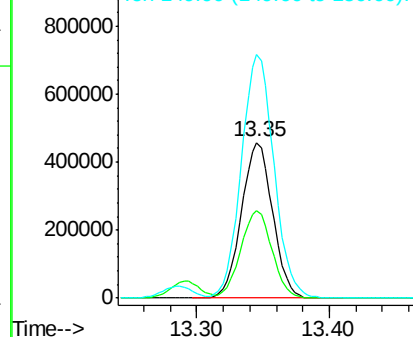


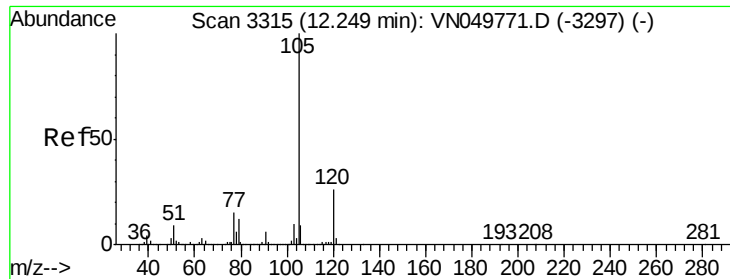
#72
1,4-Dichlorobenzene-d4
Concen: 50.00 ug/l
RT: 13.35 min Scan# 3656
Delta R.T. 0.00 min
Lab File: VN049798.D
Acq: 13 Jul 2018 15:43

Tgt Ion	Ratio	Lower	Upper
152	100		
115	56.6	28.1	84.2
150	164.7	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: 19.92 ug/l

RT: 12.25 min Scan# 3316

Delta R.T. 0.00 min

Lab File: VN049798.D

Acq: 13 Jul 2018 15:43

Instrument :

MSVOA_N

ClientSampleId :

VN0713WBSD01

Tot Ion: 105 Resp: 1229219

Ion Ratio Lower Upper

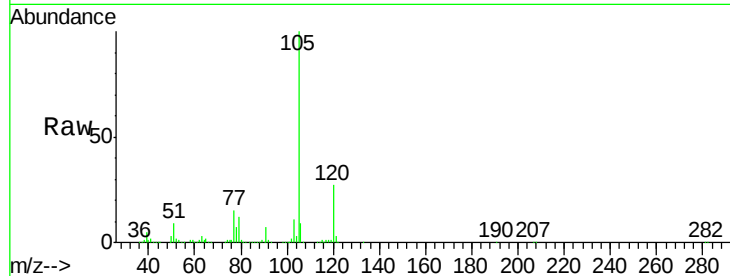
105 100

120 26.8 13.3 39.8

Manual Integrations
APPROVED

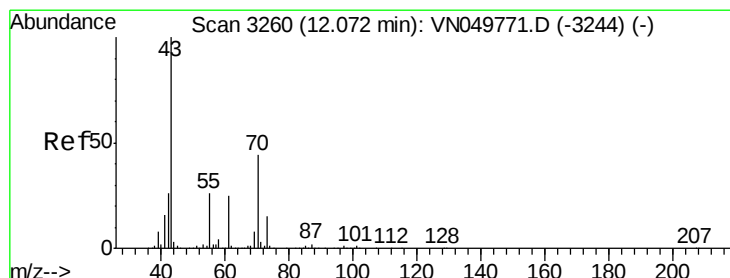
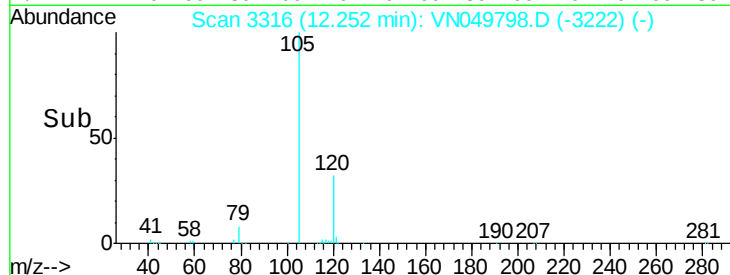
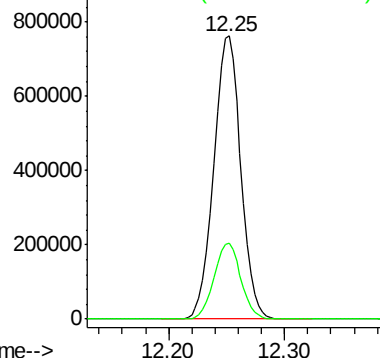
MMDadoda

7/16/2018 11:02:48 AM



Abundance Ion 105.00 (104.70 to 105.70): V

Ion 120.00 (119.70 to 120.70): V



#74

N-ethyl acetate

Concen: 19.07 ug/l

RT: 12.07 min Scan# 3260

Delta R.T. 0.00 min

Lab File: VN049798.D

Acq: 13 Jul 2018 15:43

Tgt Ion: 43 Resp: 306205

Ion Ratio Lower Upper

43 100

70 44.0 34.8 52.2

55 27.3 20.9 31.3

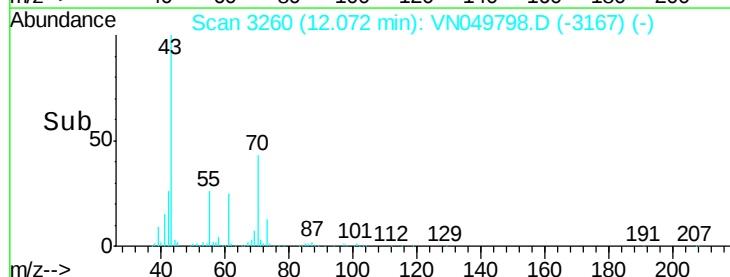
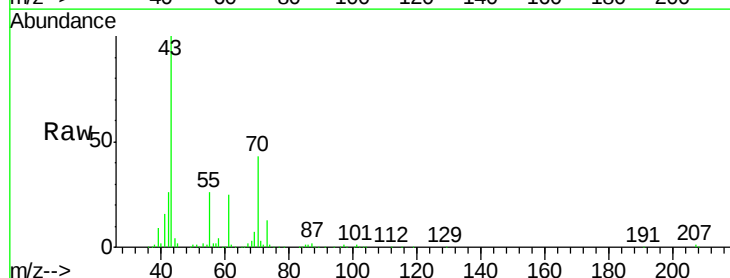
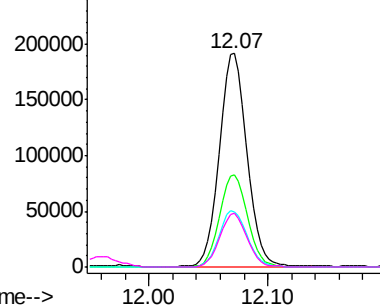
61 25.1 19.9 29.9

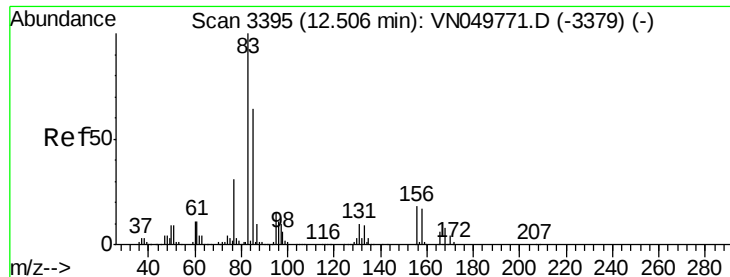
Abundance Ion 43.00 (42.70 to 43.70): V

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: 21.14 ug/l

RT: 12.51 min Scan# 3395

Delta R.T. 0.00 min

Lab File: VN049798.D

Acq: 13 Jul 2018 15:43

Instrument :

MSVOA_N

ClientSampleId :

VN0713WBSD01

Tot Ion: 83 Resp: 316776

Ion Ratio Lower Upper

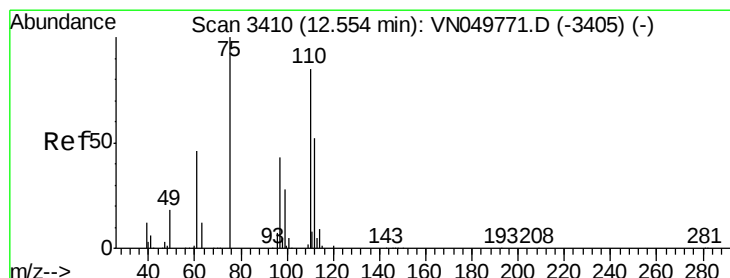
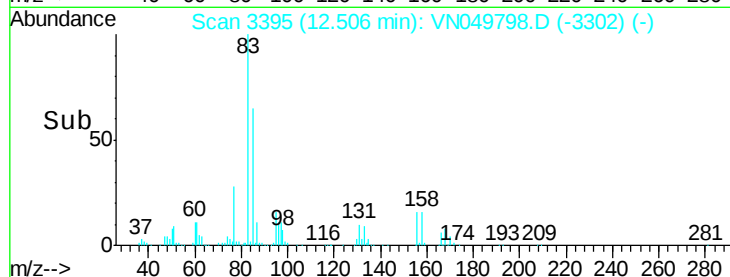
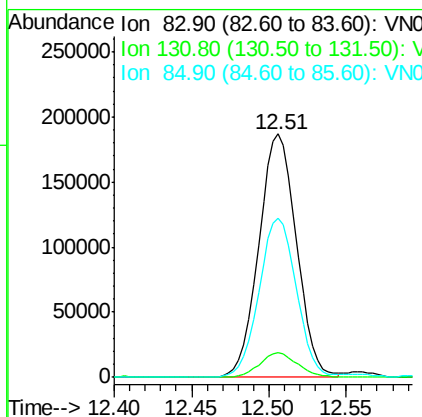
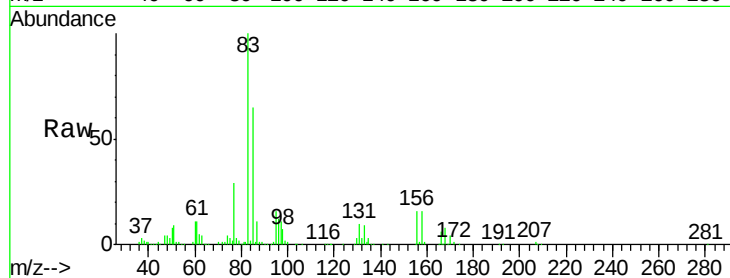
83 100

131 10.2 5.2 15.6

85 64.7 32.5 97.4

Manual Integrations
APPROVED

MMDadoda
7/16/2018 11:02:48 AM



#76

1,2,3-Trichloropropane

Concen: 19.52 ug/l m

RT: 12.55 min Scan# 3410

Delta R.T. 0.00 min

Lab File: VN049798.D

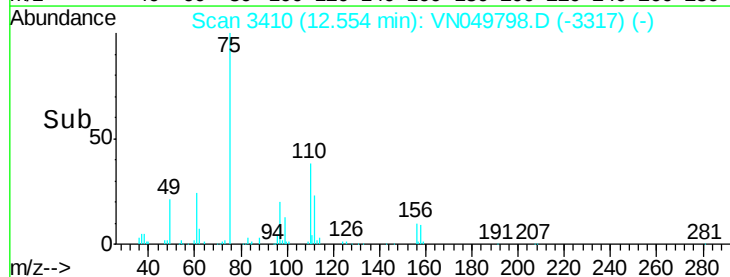
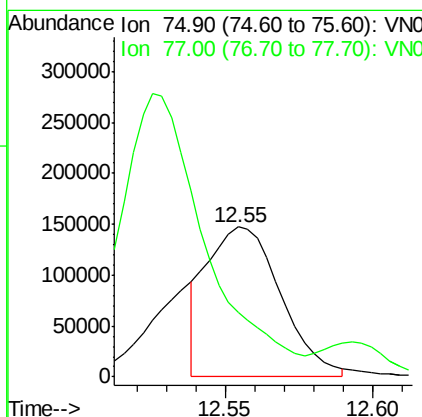
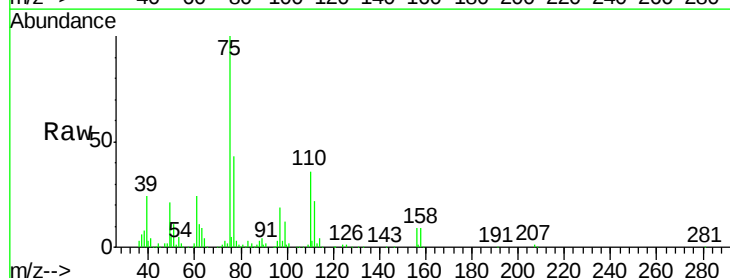
Acq: 13 Jul 2018 15:43

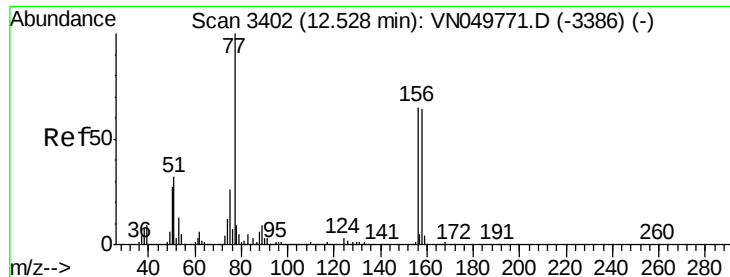
Tgt Ion: 75 Resp: 257506

Ion Ratio Lower Upper

75 100

77 0.0 0.0 0.0





#77

Bromobenzene

Concen: 19.55 ug/l

RT: 12.53 min Scan# 3402

Delta R.T. 0.00 min

Lab File: VN049798.D

Acq: 13 Jul 2018 15:43

Instrument :

MSVOA_N

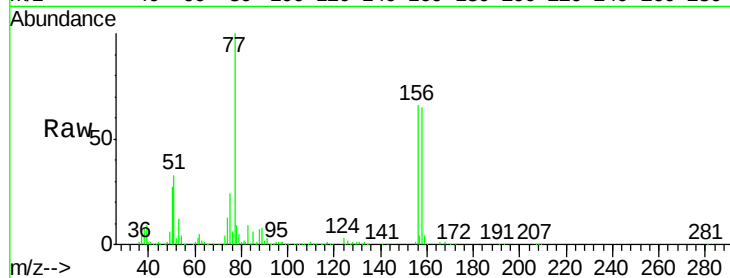
ClientSampleId :

VN0713WBSD01

Tot Ion:	156	Resp:	319955
Ion Ratio	Lower	Upper	
156	100		
77	176.5	90.2	270.6
158	97.0	49.1	147.3

Manual Integrations
APPROVED

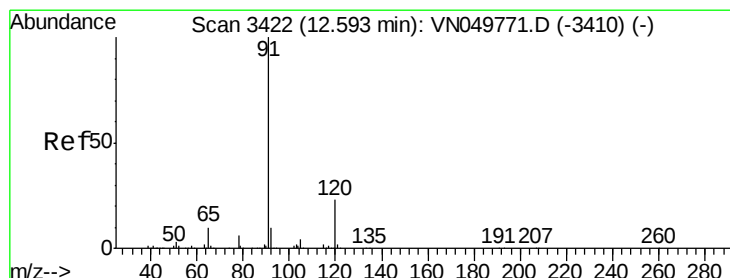
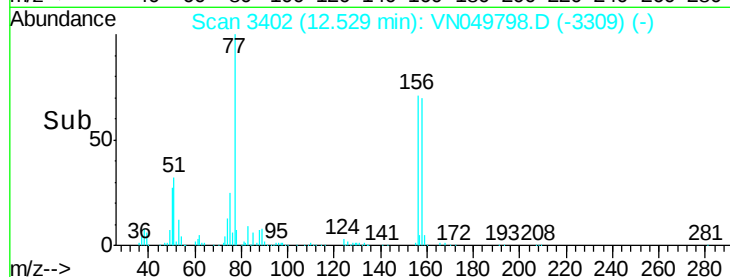
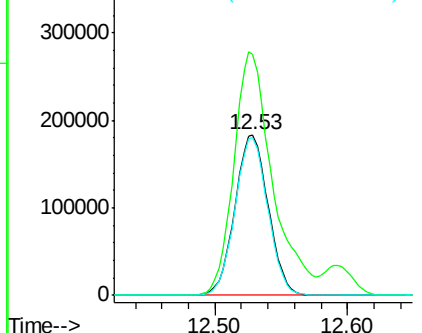
MMDadoda
7/16/2018 11:02:48 AM



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: 19.93 ug/l

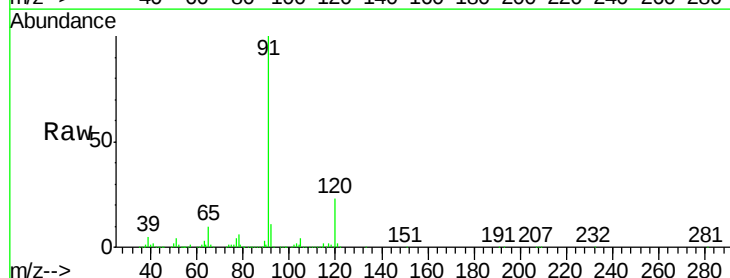
RT: 12.59 min Scan# 3422

Delta R.T. 0.00 min

Lab File: VN049798.D

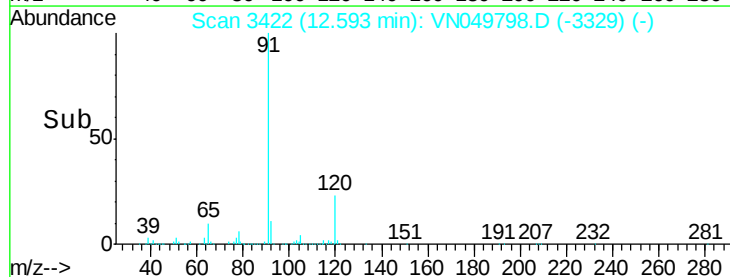
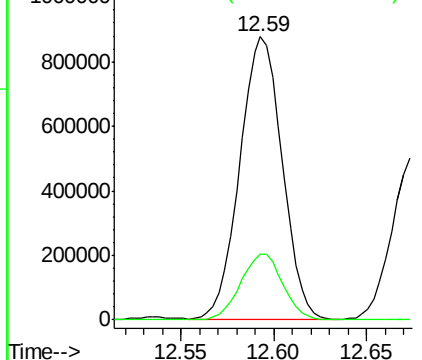
Acq: 13 Jul 2018 15:43

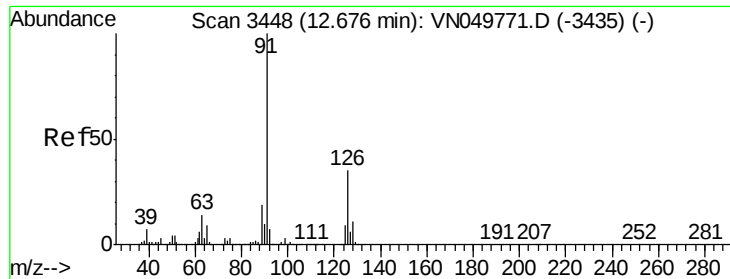
Tgt Ion:	91	Resp:	1386818
Ion Ratio	Lower	Upper	
91	100		
120	23.2	11.5	34.4



Abundance Ion 91.00 (90.70 to 91.70): VN0

Ion 120.00 (119.70 to 120.70): V





#79

2-Chlorotoluene

Concen: 19.99 ug/l

RT: 12.68 min Scan# 3448

Delta R.T. 0.00 min

Lab File: VN049798.D

Acq: 13 Jul 2018 15:43

Instrument :

MSVOA_N

ClientSampleId :

VN0713WBSD01

Tot Ion: 91 Resp: 851337

Ion Ratio Lower Upper

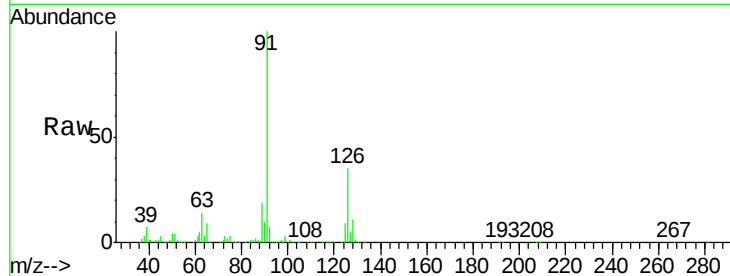
91 100

126 35.1 17.5 52.5

Manual Integrations
APPROVED

MMDadoda

7/16/2018 11:02:48 AM



Abundance Ion 91.00 (90.70 to 91.70): VN049771.D (-3435) (-)

Ion 125.90 (125.60 to 126.60): VN049771.D (-3435) (-)

1000000

800000

600000

400000

200000

0

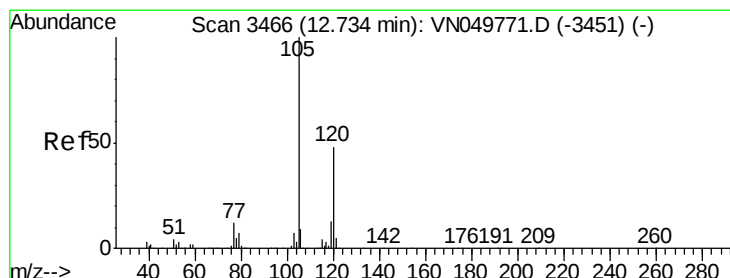
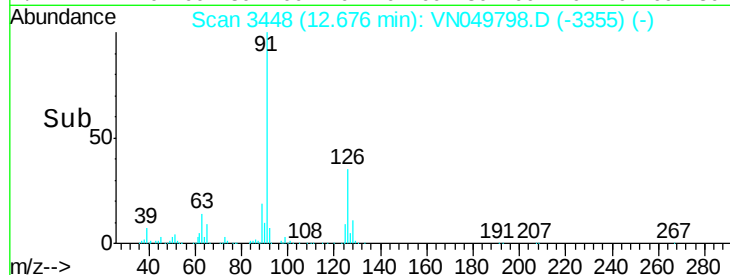
12.68

12.60

12.65

12.70

Time-->



#80

1,3,5-Trimethylbenzene

Concen: 20.50 ug/l

RT: 12.73 min Scan# 3466

Delta R.T. 0.00 min

Lab File: VN049798.D

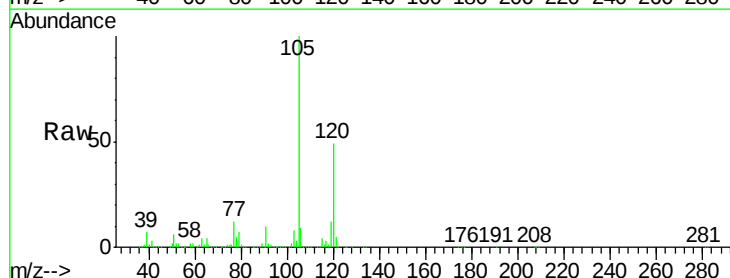
Acq: 13 Jul 2018 15:43

Tgt Ion: 105 Resp: 1005283

Ion Ratio Lower Upper

105 100

120 48.5 24.3 72.8



Abundance Ion 105.00 (104.70 to 105.70): VN049771.D (-3451) (-)

Ion 120.00 (119.70 to 120.70): VN049771.D (-3451) (-)

600000

400000

200000

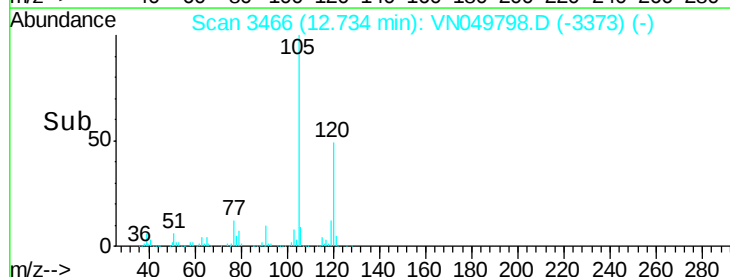
0

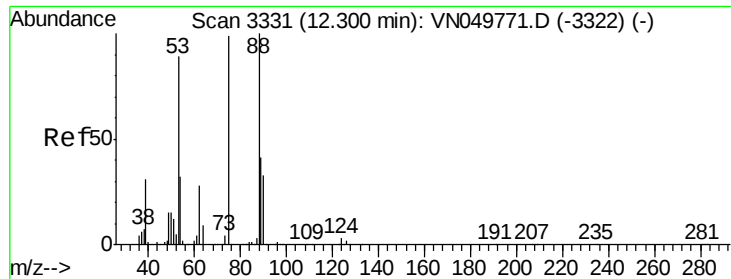
12.73

12.70

12.80

Time-->





#81

trans-1,4-Dichloro-2-butene

Concen: 18.57 ug/l

RT: 12.30 min Scan# 3332

Delta R.T. 0.00 min

Lab File: VN049798.D

Acq: 13 Jul 2018 15:43

Instrument :

MSVOA_N

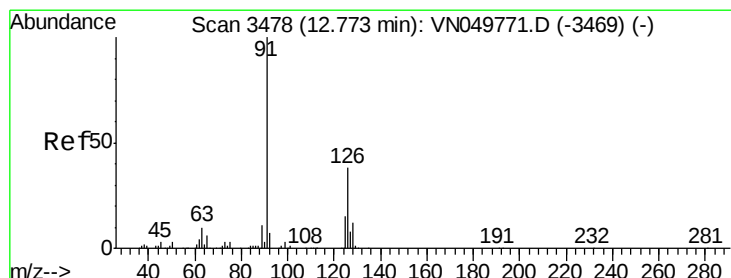
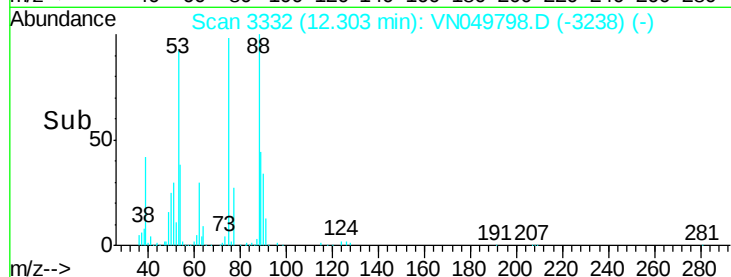
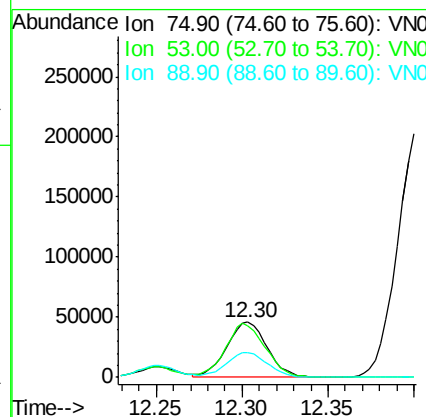
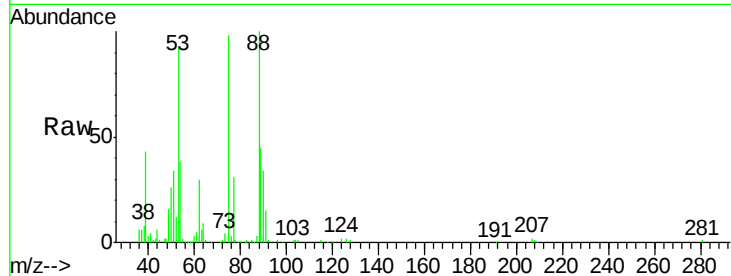
ClientSampleId :

VN0713WBSD01

Tot Ion:	75	Resp:	75862
Ion	Ratio	Lower	Upper
75	100		
53	97.0	73.9	110.9
89	46.0	35.9	53.9

Manual Integrations
APPROVED

MMDadoda
7/16/2018 11:02:48 AM



#82

4-Chlorotoluene

Concen: 20.17 ug/l

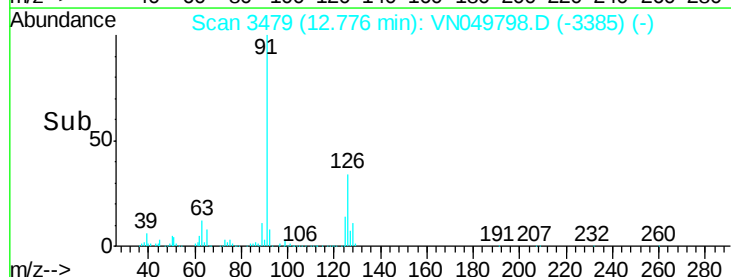
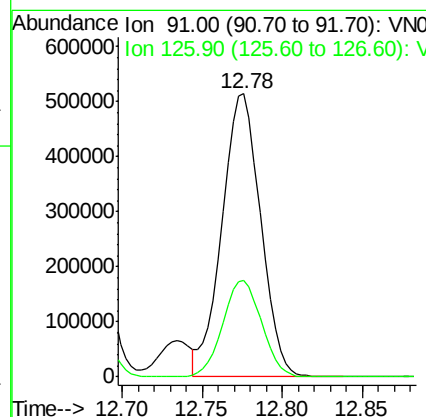
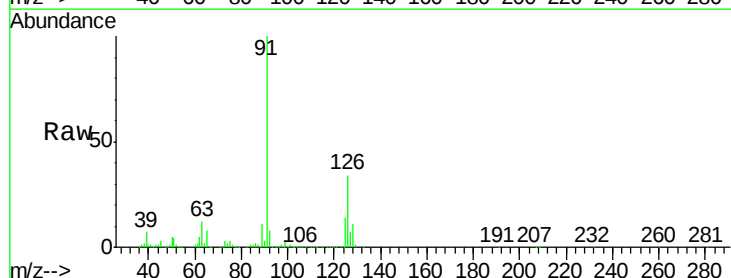
RT: 12.78 min Scan# 3479

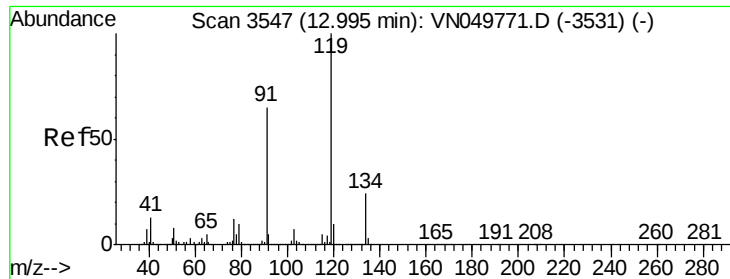
Delta R.T. 0.00 min

Lab File: VN049798.D

Acq: 13 Jul 2018 15:43

Tgt Ion:	91	Resp:	851688
Ion	Ratio	Lower	Upper
91	100		
126	34.2	17.2	51.6





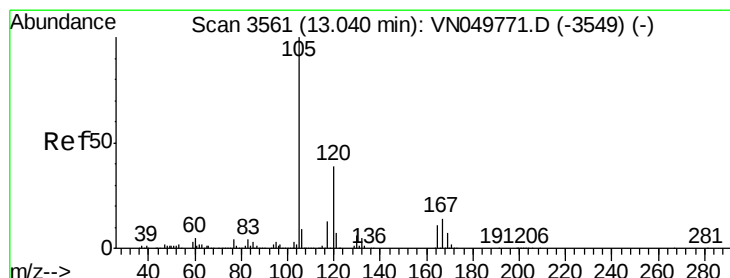
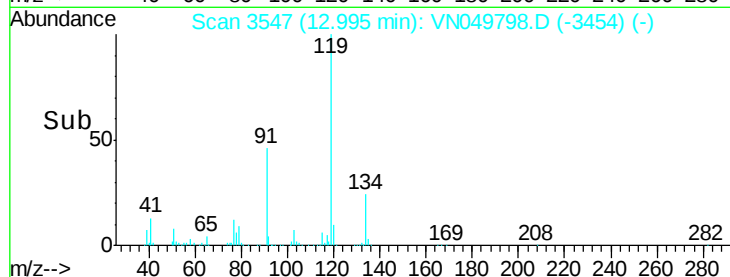
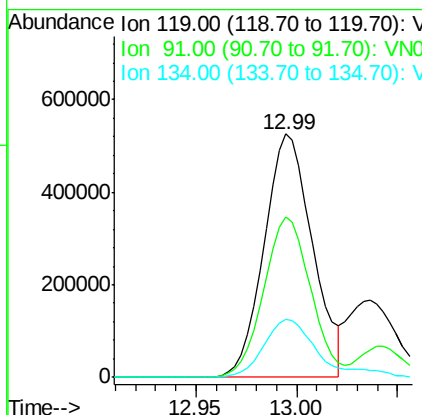
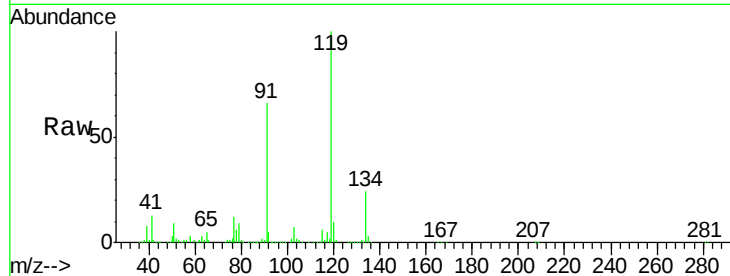
#83
tert-Butylbenzene
Concen: 20.00 ug/l
RT: 12.99 min Scan# 3547
Delta R.T. 0.00 min
Lab File: VN049798.D
Acq: 13 Jul 2018 15:43

Instrument :
MSVOA_N
ClientSampleId :
VN0713WBSD01

Tot Ion	Ratio	Lower	Upper
119	100		
91	63.8	32.0	96.2
134	26.8	12.8	38.4

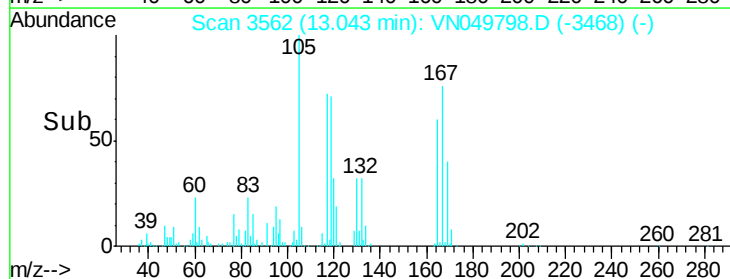
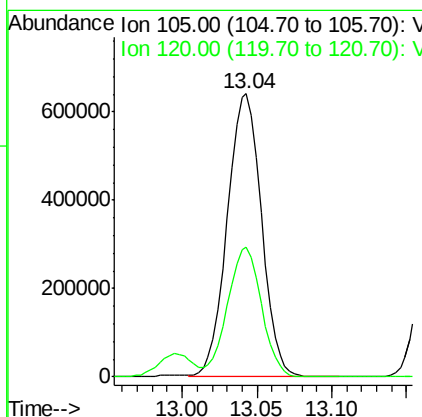
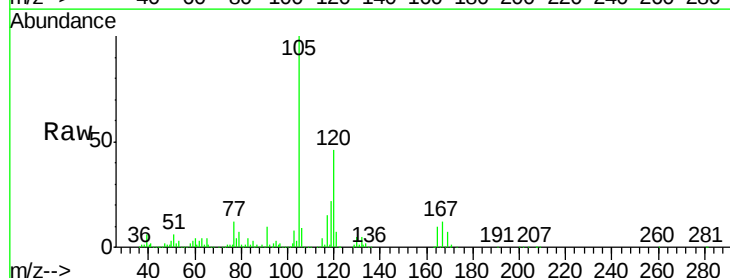
Manual Integrations
APPROVED

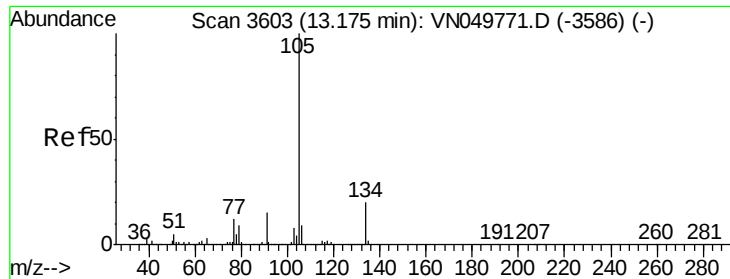
MMDadoda
7/16/2018 11:02:48 AM



#84
1,2,4-Trimethylbenzene
Concen: 20.72 ug/l
RT: 13.04 min Scan# 3562
Delta R.T. 0.00 min
Lab File: VN049798.D
Acq: 13 Jul 2018 15:43

Tgt Ion	Ratio	Lower	Upper
105	100		
120	45.5	22.7	68.1





#85

sec-Butylbenzene

Concen: 20.22 ug/l

RT: 13.17 min Scan# 3603

Delta R.T. 0.00 min

Lab File: VN049798.D

Acq: 13 Jul 2018 15:43

Instrument :

MSVOA_N

ClientSampleId :

VN0713WBSD01

Tot Ion:105 Resp: 1162898

Ion Ratio Lower Upper

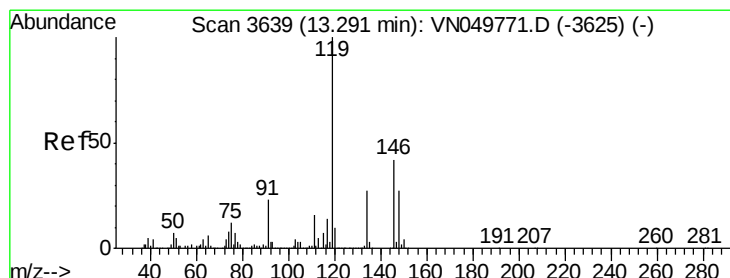
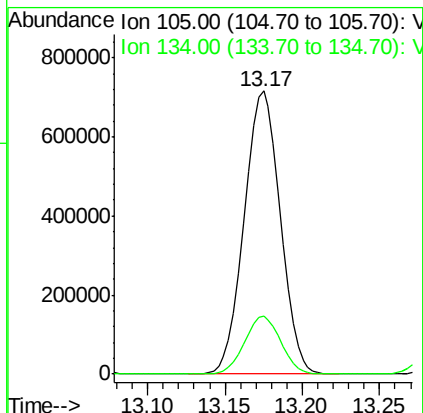
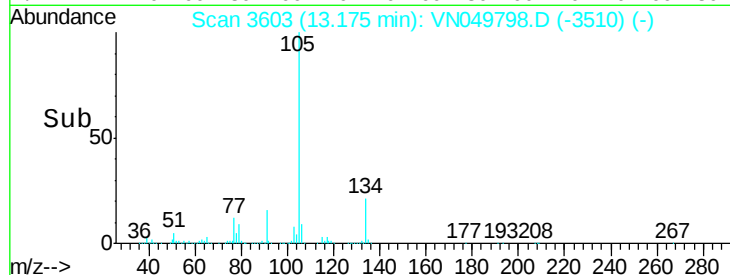
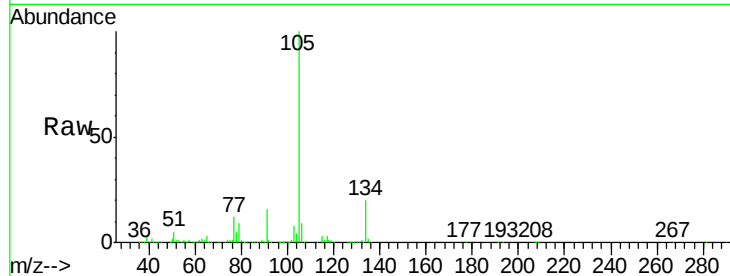
105 100

134 20.5 10.1 30.1

Manual Integrations
APPROVED

MMDadoda

7/16/2018 11:02:48 AM



#86

p-Isopropyltoluene

Concen: 20.51 ug/l

RT: 13.29 min Scan# 3639

Delta R.T. 0.00 min

Lab File: VN049798.D

Acq: 13 Jul 2018 15:43

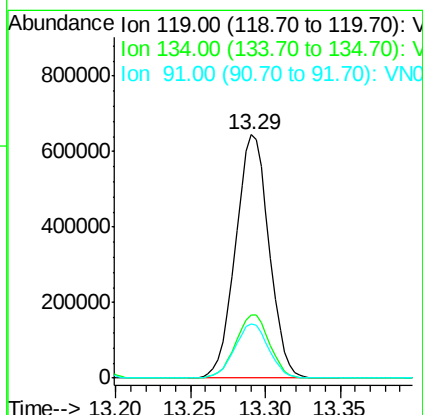
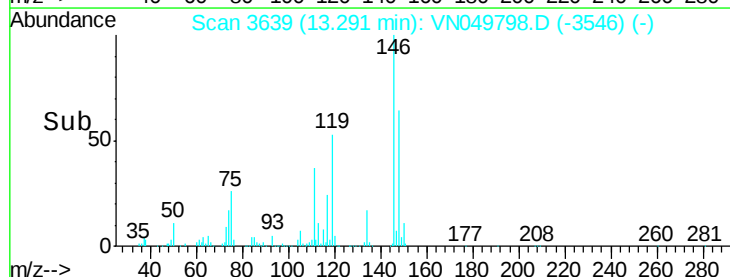
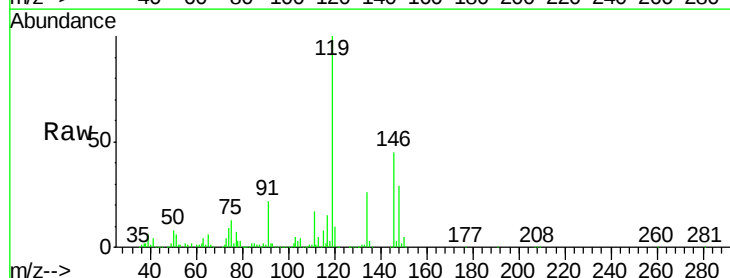
Tgt Ion:119 Resp: 997993

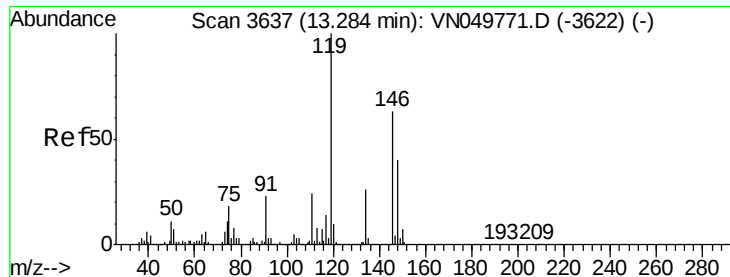
Ion Ratio Lower Upper

119 100

134 26.4 13.3 39.9

91 22.5 11.4 34.1





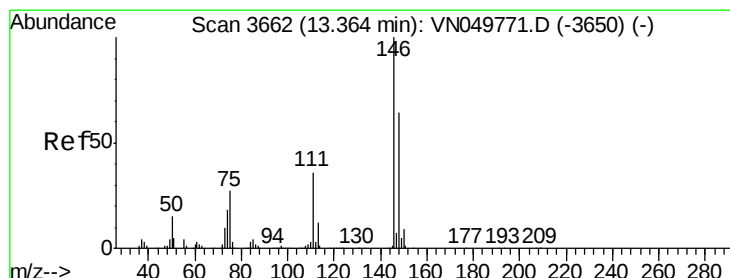
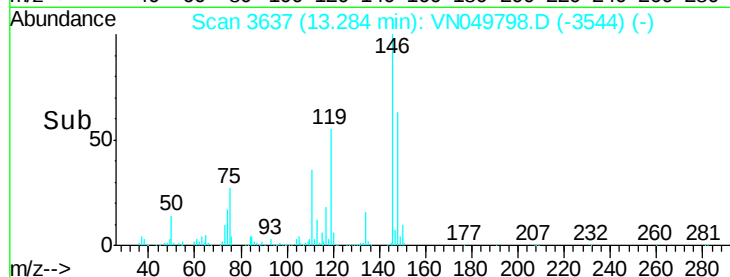
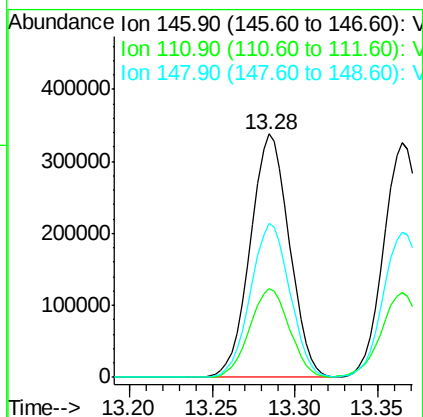
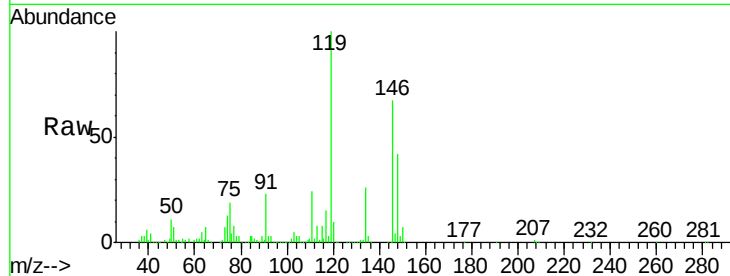
#87
 1,3-Dichlorobenzene
 Concen: 19.49 ug/l
 RT: 13.28 min Scan# 3637
 Delta R.T. 0.00 min
 Lab File: VN049798.D
 Acq: 13 Jul 2018 15:43

Instrument :
 MSVOA_N
 ClientSampleId :
 VN0713WBSD01

Tot Ion	Ratio	Lower	Upper
146	100		
111	37.2	19.0	57.0
148	63.6	32.5	97.5

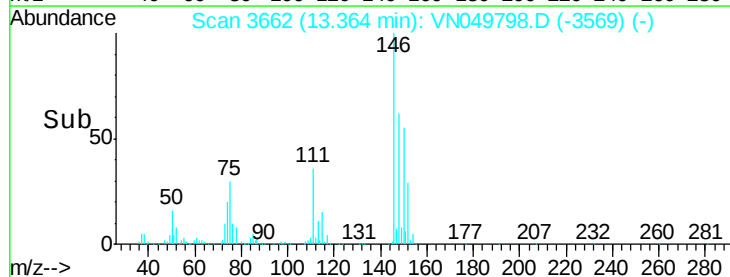
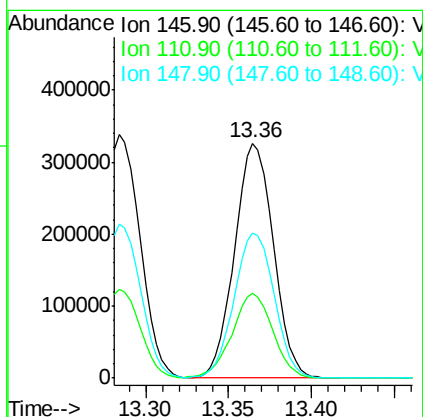
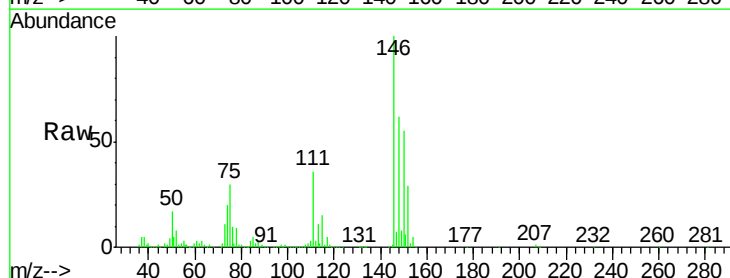
Manual Integrations
 APPROVED

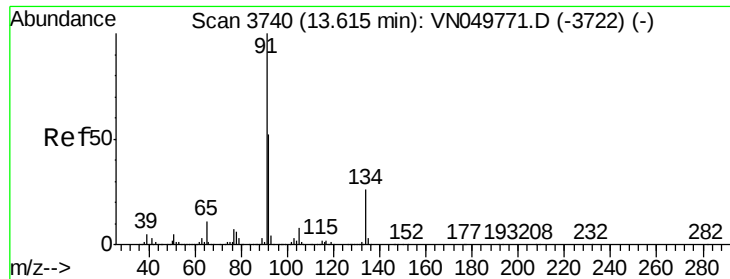
MMDadoda
 7/16/2018 11:02:48 AM



#88
 1,4-Dichlorobenzene
 Concen: 19.26 ug/l
 RT: 13.36 min Scan# 3662
 Delta R.T. 0.00 min
 Lab File: VN049798.D
 Acq: 13 Jul 2018 15:43

Tgt Ion	Ratio	Lower	Upper
146	100		
111	37.8	18.9	56.5
148	63.9	32.1	96.3





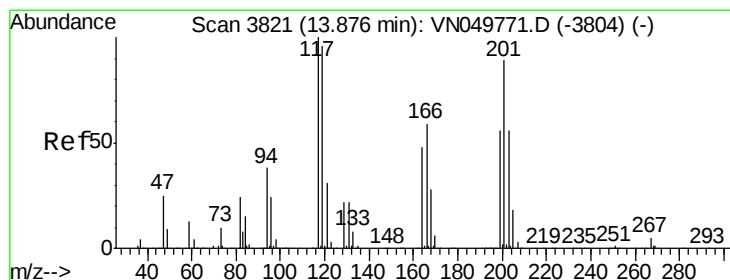
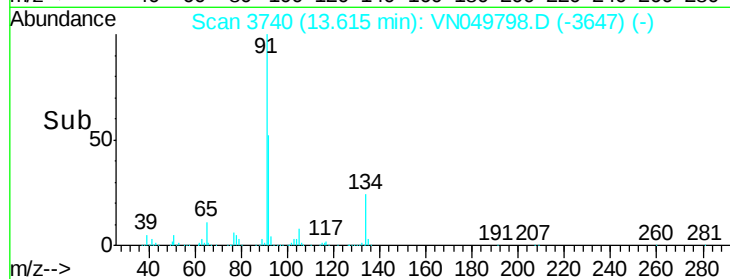
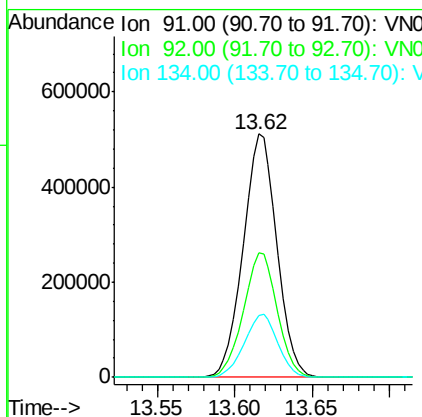
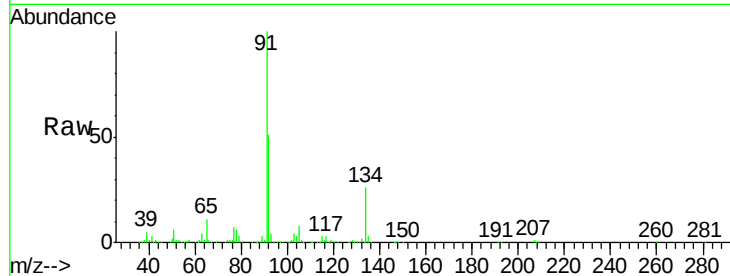
#89
n-Butylbenzene
Concen: 19.32 ug/l
RT: 13.62 min Scan# 3740
Delta R.T. 0.00 min
Lab File: VN049798.D
Acq: 13 Jul 2018 15:43

Instrument :
MSVOA_N
ClientSampleId :
VN0713WBSD01

Tot Ion	Ratio	Lower	Upper
91	100		
92	51.1	25.8	77.3
134	25.8	13.0	38.9

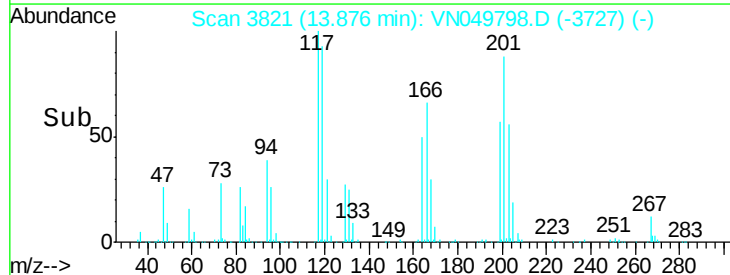
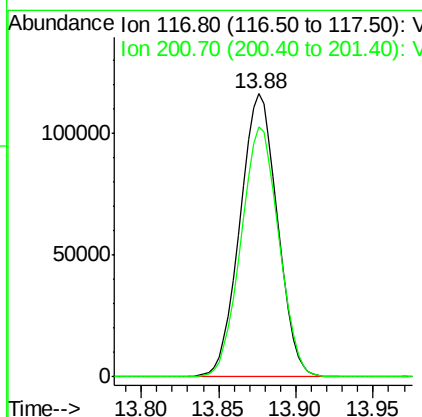
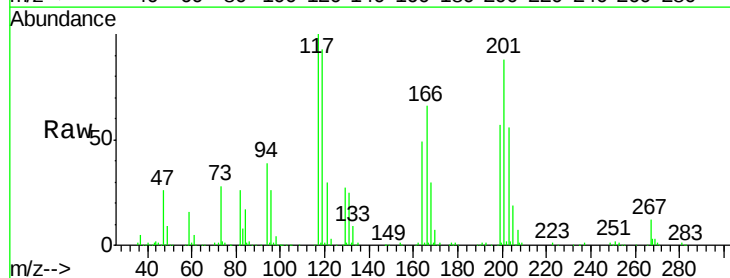
Manual Integrations
APPROVED

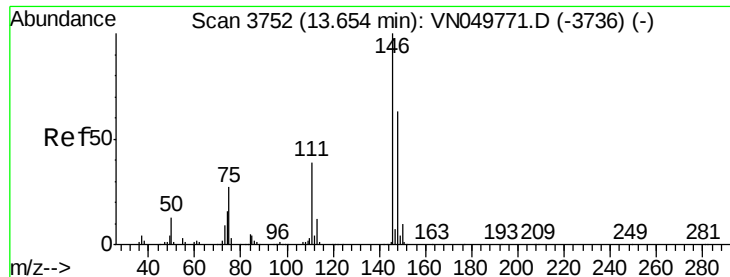
MMDadoda
7/16/2018 11:02:48 AM



#90
Hexachloroethane
Concen: 20.37 ug/l
RT: 13.88 min Scan# 3821
Delta R.T. 0.00 min
Lab File: VN049798.D
Acq: 13 Jul 2018 15:43

Tgt Ion	Ratio	Lower	Upper
117	100		
201	88.8	45.3	135.8





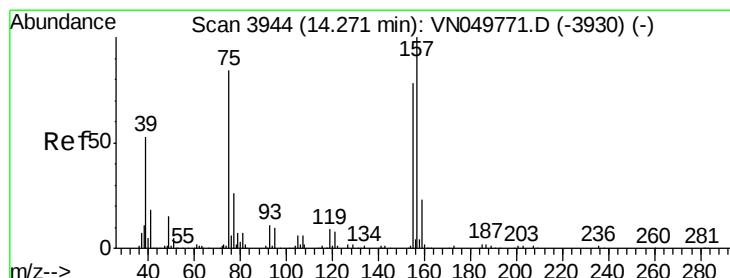
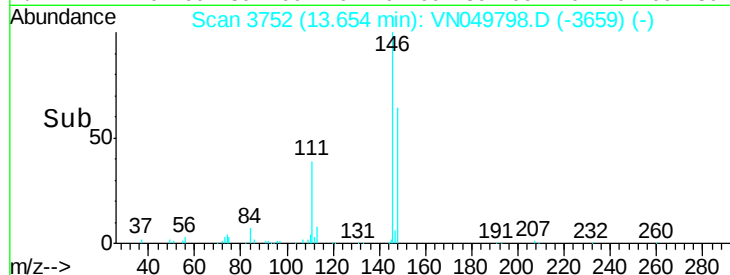
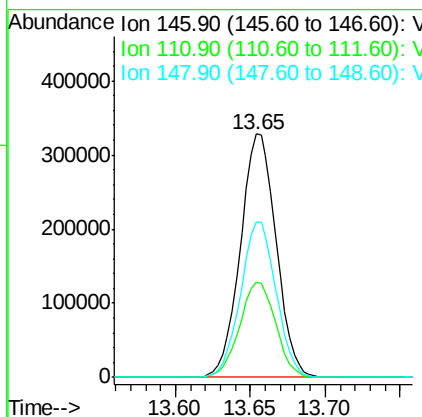
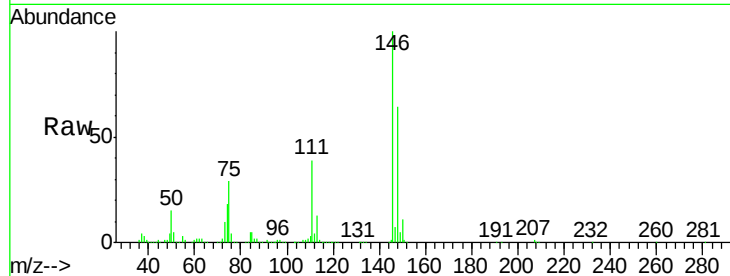
#91
 1,2-Dichlorobenzene
 Concen: 19.70 ug/l
 RT: 13.65 min Scan# 3752
 Delta R.T. 0.00 min
 Lab File: VN049798.D
 Acq: 13 Jul 2018 15:43

Instrument :
 MSVOA_N
 ClientSampleId :
 VN0713WBSD01

Tot Ion	Ratio	Resp	Lower	Upper
146	100	545622		
111	39.4	19.7	59.1	
148	63.5	32.0	96.2	

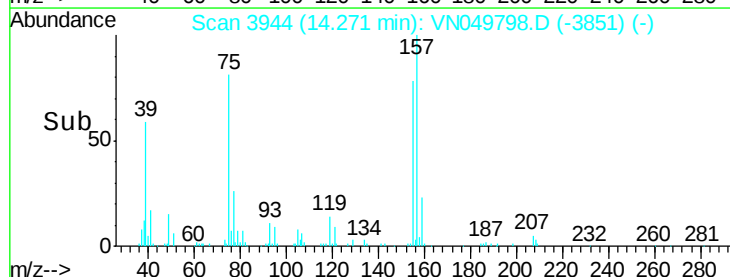
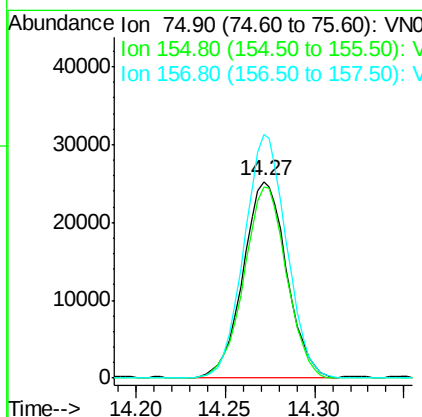
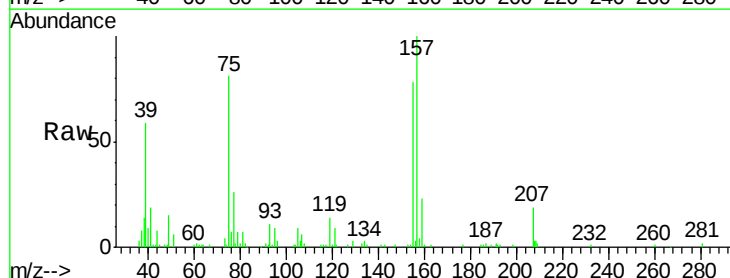
Manual Integrations
 APPROVED

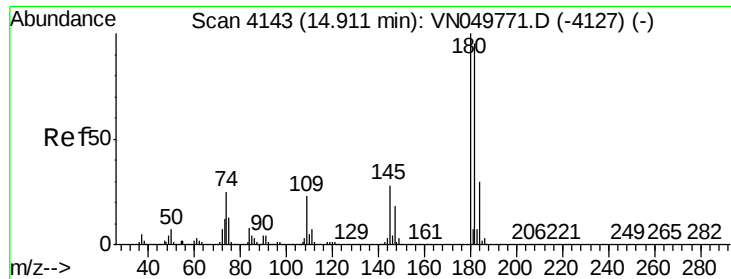
MMDadoda
 7/16/2018 11:02:48 AM



#92
 1,2-Dibromo-3-Chloropropane
 Concen: 19.50 ug/l
 RT: 14.27 min Scan# 3944
 Delta R.T. 0.00 min
 Lab File: VN049798.D
 Acq: 13 Jul 2018 15:43

Tgt Ion	Ratio	Resp	Lower	Upper
75	100	43178		
155	94.7	45.7	137.1	
157	120.3	56.9	170.7	





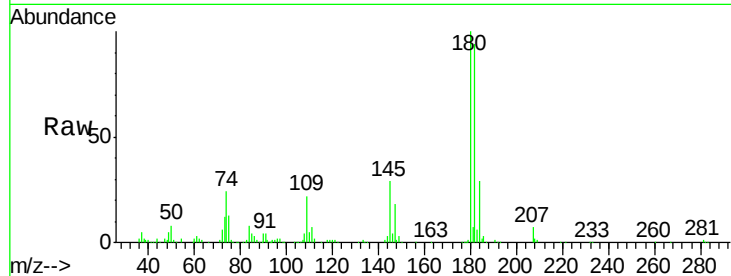
#93
 1,2,4-Trichlorobenzene
 Concen: 18.18 ug/l
 RT: 14.91 min Scan# 4143
 Delta R.T. 0.00 min
 Lab File: VN049798.D
 Acq: 13 Jul 2018 15:43

Instrument :
 MSVOA_N
 ClientSampleId :
 VN0713WBSD01

Tot Ion	Ratio	Resp	Lower	Upper
180	100	246878		
182	93.9	47.3	141.9	
145	29.5	14.4	43.0	

Manual Integrations
 APPROVED

MMDadoda
 7/16/2018 11:02:48 AM

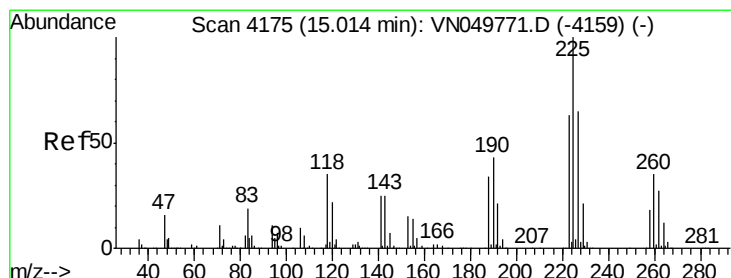
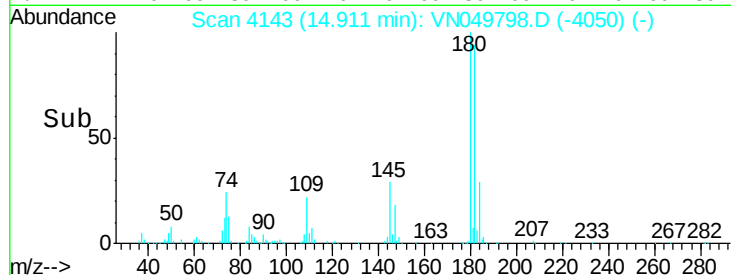
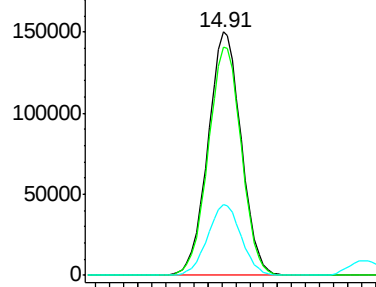


Abundance

Ion 179.80 (179.50 to 180.50): V

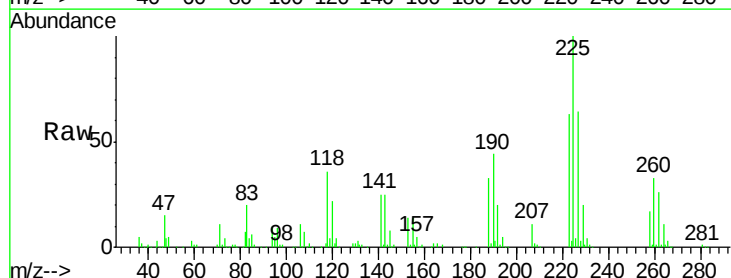
Ion 181.80 (181.50 to 182.50): V

Ion 144.80 (144.50 to 145.50): V



#94
 Hexachlorobutadiene
 Concen: 20.44 ug/l
 RT: 15.01 min Scan# 4175
 Delta R.T. 0.00 min
 Lab File: VN049798.D
 Acq: 13 Jul 2018 15:43

Tgt Ion	Ratio	Resp	Lower	Upper
225	100	178649		
223	62.6	30.9	92.7	
227	63.7	31.8	95.4	

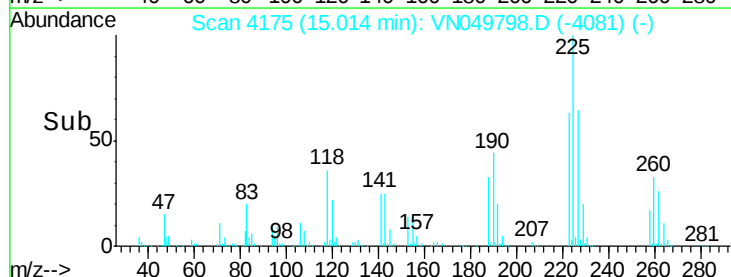
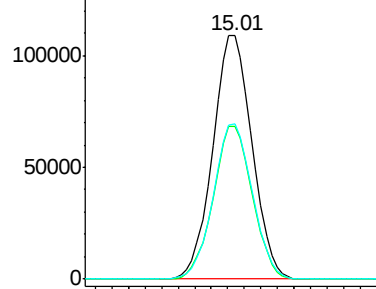


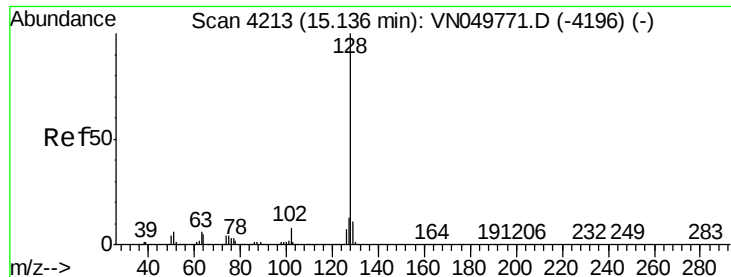
Abundance

Ion 224.70 (224.40 to 225.40): V

Ion 222.70 (222.40 to 223.40): V

Ion 226.70 (226.40 to 227.40): V





#95

Naphthalene

Concen: 17.09 ug/l

RT: 15.14 min Scan# 4213

Delta R.T. 0.00 min

Lab File: VN049798.D

Acq: 13 Jul 2018 15:43

Instrument :

MSVOA_N

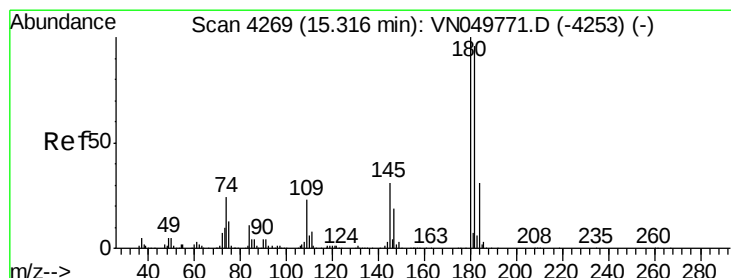
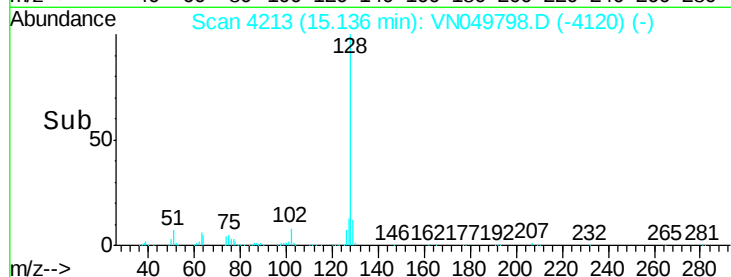
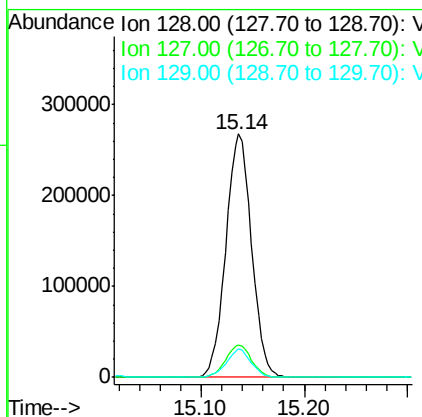
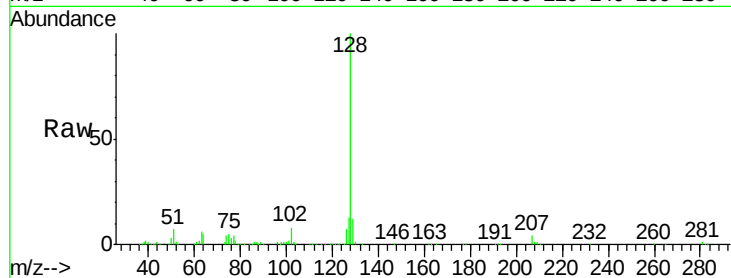
ClientSampleId :

VN0713WBSD01

Tot Ion:	128	Resp:	466396
Ion Ratio	Lower	Upper	
128	100		
127	13.4	10.4	15.6
129	11.0	8.6	13.0

Manual Integrations
APPROVED

MMDadoda
7/16/2018 11:02:48 AM



#96

1,2,3-Trichlorobenzene

Concen: 19.36 ug/l

RT: 15.32 min Scan# 4270

Delta R.T. 0.00 min

Lab File: VN049798.D

Acq: 13 Jul 2018 15:43

Tgt Ion:	180	Resp:	260106
Ion Ratio	Lower	Upper	
180	100		
182	93.6	47.4	142.2
145	30.2	15.2	45.6

