

Data Path : Z:\voasrv\HPCHEM1\MSVOA N\Data\VN041619\
 Data File : VN055077.D
 Acq On : 16 Apr 2019 14:41
 Operator : JC/SP
 Sample : VN0416WBSD01
 Misc : 5.00mL/MSVOA N/WATER
 ALS Vial : 12 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleID :
 VN0416WBSD01

Manual Integrations
 APPROVED

MMDadoda
 4/17/2019 4:23:07 AM

Quant Time: Apr 17 02:05:33 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA N\METHODS\624N041119W.M
 Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS
 QLast Update : Fri Apr 12 07:55:25 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	7.19	128	72094	30.00	ug/l	0.00
28) 1,4-Difluorobenzene	8.58	114	398404	30.00	ug/l	0.00
57) Chlorobenzene-d5	11.41	117	341738	30.00	ug/l	0.00

System Monitoring Compounds

27) 1,2-Dichloroethane-d4	8.03	65	166182	30.24	ug/l	0.00
Spiked Amount	30.000	Range	50 - 169	Recovery	=	100.80%
60) 4-Bromofluorobenzene	12.40	95	156902	29.49	ug/l	0.00
Spiked Amount	30.000	Range	56 - 143	Recovery	=	98.30%
63) Toluene-d8	10.09	98	501143	30.84	ug/l	0.00
Spiked Amount	30.000	Range	66 - 137	Recovery	=	102.80%

Target Compounds

					Ovalue
2) Dichlorodifluoromethane	1.85	85	83421	19.674	ug/l 99
3) Chloromethane	2.06	50	111248	19.422	ug/l 96
4) Vinyl Chloride	2.19	62	95767	19.334	ug/l 99
5) Bromomethane	2.57	94	56308	19.653	ug/l 90
6) Chloroethane	2.71	64	54736	19.731	ug/l 96
7) Trichlorofluoromethane	3.02	101	123673	19.539	ug/l 100
8) Diethyl Ether	3.41	74	40646	20.000	ug/l 98
9) 1,1,2-Trichlorotrifluoroet	3.75	101	66914	19.340	ug/l 96
10) 1,1-Dichloroethene	3.73	96	61973	19.373	ug/l 98
11) Methyl Iodide	3.95	142	101673	21.003	ug/l 99
12) Methyl Acetate	4.33	43	90736	23.061	ug/l 97
13) Acrolein	3.61	56	32524	94.316	ug/l 97
14) Acrylonitrile	4.99	53	173201	107.444	ug/l 97
15) Acetone	3.82	58	31621	79.271	ug/l 95
16) Carbon Disulfide	4.04	76	198784	18.526	ug/l 99
17) Allyl chloride	4.32	41	162422	20.618	ug/l 98
18) Methylene Chloride	4.55	84	94553	19.996	ug/l 97
19) trans-1,2-Dichloroethene	5.04	96	83433	20.036	ug/l 97
20) Diisopropyl ether	5.96	45	327333	20.511	ug/l 99
21) 1,1-Dichloroethane	5.85	63	174303	20.449	ug/l 99
22) cis-1,2-Dichloroethene	6.83	96	98725	20.397	ug/l 97
23) tert-Butyl Alcohol	4.82	59	30172	117.383	ug/l # 100
24) Methyl tert-Butyl Ether	5.05	73	229296	21.347	ug/l # 67
25) Chloroform	7.37	83	167198	20.478	ug/l 99
26) Cyclohexane	7.65	56	153367	19.392	ug/l # 96
29) 1,1-Dichloropropene	7.79	75	122763	19.786	ug/l 98
30) 2-Butanone	6.85	43	208016	100.999	ug/l 99
31) 2,2-Dichloropropane	6.82	77	107728	18.864	ug/l # 100
32) 1,1,1-Trichloroethane	7.57	97	133031	20.285	ug/l 98
33) Carbon Tetrachloride	7.77	117	111519	19.641	ug/l 97
34) Benzene	8.04	78	366949	19.957	ug/l 98
35) Methacrylonitrile	7.18	41	47603	19.610	ug/l 93
36) 1,2-Dichloroethane	8.12	62	125854	20.027	ug/l 100
37) Trichloroethene	8.83	130	90982	19.410	ug/l 88
38) Methylcyclohexane	9.08	83	129402	17.984	ug/l 99
39) 1,2-Dichloropropane	9.12	63	104448	20.572	ug/l 98
40) Dibromomethane	9.21	93	58366	20.338	ug/l 99

Data Path : Z:\voasrv\HPCHEM1\MSVOA N\Data\VN041619\
 Data File : VN055077.D
 Acq On : 16 Apr 2019 14:41
 Operator : JC/SP
 Sample : VN0416WBSD01
 Misc : 5.00mL/MSVOA N/WATER
 ALS Vial : 12 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 VN0416WBSD01

Manual Integrations
 APPROVED

MMDadoda
 4/17/2019 4:23:07 AM

Quant Time: Apr 17 02:05:33 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA N\METHODS\624N041119W.M
 Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS
 QLast Update : Fri Apr 12 07:55:25 2019
 Response via : Initial Calibration

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

41) Bromodichloromethane	9.40	83	115713	19.537	ug/l	99
42) Vinyl Acetate	5.90	43	1075134	103.256	ug/l	100
43) Ethyl Acetate	6.94	43	92709	22.095	ug/l	100
44) Isopropyl Acetate	8.17	43	150625	21.183	ug/l	98
45) 1,4-Dioxane	9.20	88	16422	416.868	ug/l	99
46) Methyl methacrylate	9.20	41	79634	21.649	ug/l	95
47) n-amyl Acetate	12.07	43	112833	21.544	ug/l	99
48) t-1,3-Dichloropropene	10.38	75	104340	19.184	ug/l	100
49) cis-1,3-Dichloropropene	9.84	75	132868	19.789	ug/l	96
50) 1,1,2-Trichloroethane	10.56	97	81097	20.806	ug/l	99
51) Ethyl methacrylate	10.43	69	93613	20.148	ug/l	95
52) 1,3-Dichloropropane	10.71	76	139364	20.405	ug/l	100
53) Dibromochloromethane	10.90	129	77562	19.318	ug/l	99
54) 1,2-Dibromoethane	11.00	107	74186	20.274	ug/l	100
55) 2-Chloroethyl vinyl ether	9.70	63	180927	93.144	ug/l	99
56) Bromoform	12.13	173	46552	18.453	ug/l #	97
58) 4-Methyl-2-Pentanone	9.99	43	442378	112.251	ug/l	99
59) 2-Hexanone	10.75	43	266303	106.368	ug/l	99
61) Tetrachloroethene	10.63	164	86969	19.555	ug/l	95
62) Toluene	10.15	91	380592	20.212	ug/l	99
64) Chlorobenzene	11.43	112	229915	20.225	ug/l	98
65) 1,1,1,2-Tetrachloroethane	11.51	131	82995	20.528	ug/l	99
66) Ethyl Benzene	11.51	91	403003	19.966	ug/l	100
67) m/p-Xylenes	11.62	106	300713	40.080	ug/l	98
68) o-Xylene	11.95	106	147301	19.867	ug/l	97
69) Styrene	11.96	104	225987	19.628	ug/l	98
70) Isopropylbenzene	12.25	105	387414	19.543	ug/l	99
71) 1,1,2,2-Tetrachloroethane	12.50	83	97294	21.458	ug/l	97
72) 1,2,3-Trichloropropane	12.55	75	84052m	22.447	ug/l	
73) Bromobenzene	12.53	156	92344	19.708	ug/l	99
74) n-propylbenzene	12.59	91	436605	19.673	ug/l	99
75) 2-Chlorotoluene	12.67	91	270675	20.222	ug/l	99
76) 1,3,5-Trimethylbenzene	12.73	105	308156	19.227	ug/l	98
77) t-1,4-Dichloro-2-butene	12.30	75	18775	19.892	ug/l	94
78) 4-Chlorotoluene	12.77	91	251283	19.703	ug/l	99
79) tert-butylbenzene	12.99	119	270571	19.511	ug/l	100
80) 1,2,4-Trimethylbenzene	13.04	105	308995	19.626	ug/l	100
81) sec-Butylbenzene	13.17	105	350485	18.915	ug/l	99
82) p-Isopropyltoluene	13.29	119	295819	18.916	ug/l	99
83) 1,3-Dichlorobenzene	13.28	146	153065	19.526	ug/l	99
84) 1,4-Dichlorobenzene	13.36	146	138530	18.597	ug/l	100
85) n-Butylbenzene	13.61	91	218203	17.517	ug/l	99
86) Hexachloroethane	13.87	117	45040	17.991	ug/l	96
87) 1,2-Dichlorobenzene	13.65	146	154082	20.071	ug/l	98
88) 1,2-Dibromo-3-Chloropropan	14.27	75	12432	20.630	ug/l	92
89) 1,2,4-Trichlorobenzene	14.91	180	56741	16.532	ug/l	96
90) Hexachlorobutadiene	15.01	225	45252	18.084	ug/l	97
91) Naphthalene	15.13	128	124529	17.328	ug/l	100
92) 1,2,3-Trichlorobenzene	15.31	180	59536	17.345	ug/l	98

Data Path : Z:\voasrv\HPCHEM1\MSVOA N\Data\VN041619\
Data File : VN055077.D
Acq On : 16 Apr 2019 14:41
Operator : JC/SP
Sample : VN0416WBSD01
Misc : 5.00mL/MSVOA N/WATER
ALS Vial : 12 Sample Multiplier: 1

Instrument :
MSVOA_N
ClientSampleId :
VN0416WBSD01

Manual Integrations
APPROVED

MMDadoda
4/17/2019 4:23:07 AM

Quant Time: Apr 17 02:05:33 2019
Quant Method : Z:\VOASRV\HPCHEM1\MSVOA N\METHODS\624N041119W.M
Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS
QLast Update : Fri Apr 12 07:55:25 2019
Response via : Initial Calibration

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

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

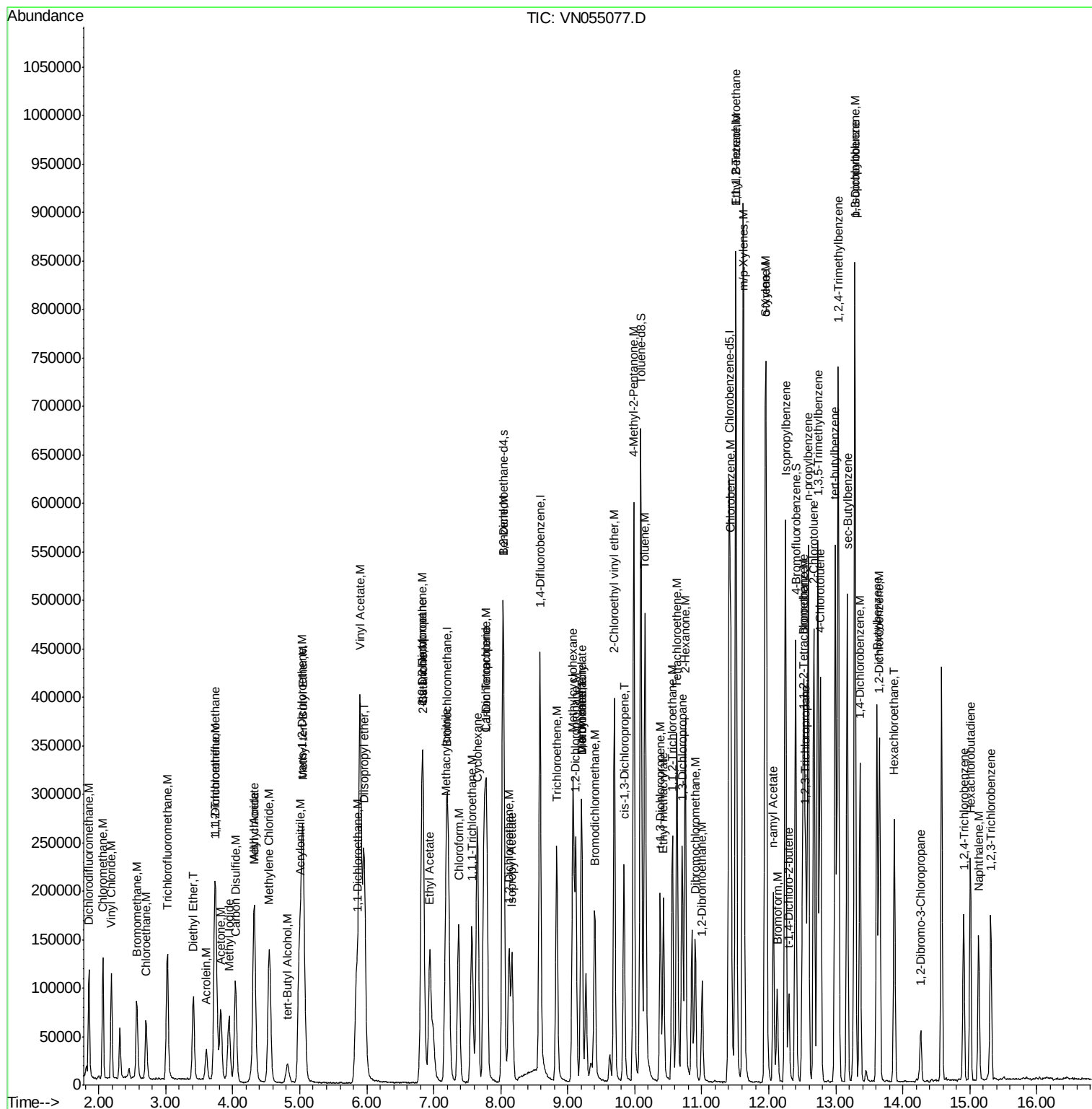
Data Path : Z:\voasrv\HPCHEM1\MSVOA N\Data\VN041619\
Data File : VN055077.D
Acq On : 16 Apr 2019 14:41
Operator : JC/SP
Sample : VN0416WBSD01
Misc : 5.00mL/MSVOA N/WATER
ALS Vial : 12 Sample Multiplier: 1

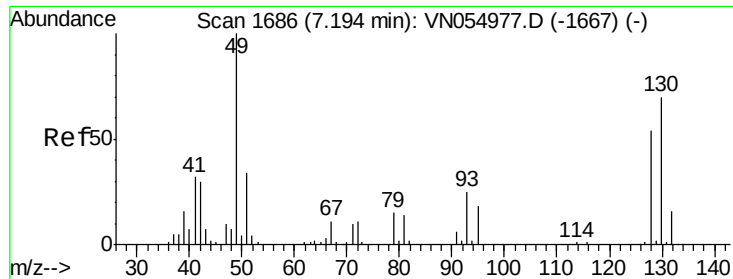
Instrument :
MSVOA_N
Client Sample Id :
VN0416WBSD01

Manual Integrations
APPROVED

MMDadoda
4/17/2019 4:23:07 AM

Quant Time: Apr 17 02:05:33 2019
Quant Method : Z:\VOASRV\HPCHEM1\MSVOA N\METHODS\624N041119W.M
Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS
QLast Update : Fri Apr 12 07:55:25 2019
Response via : Initial Calibration





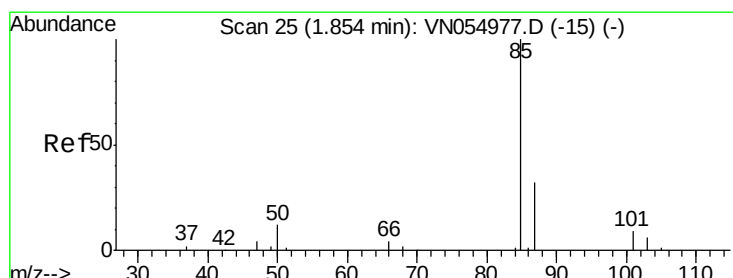
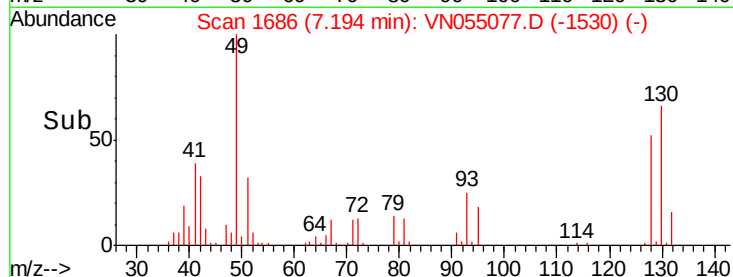
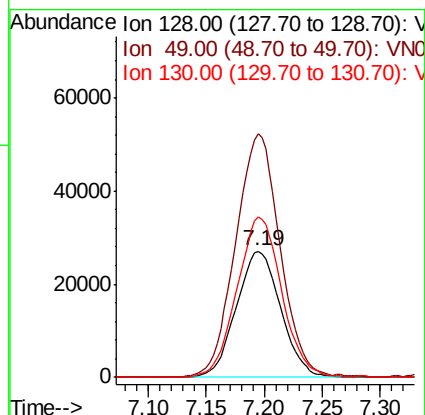
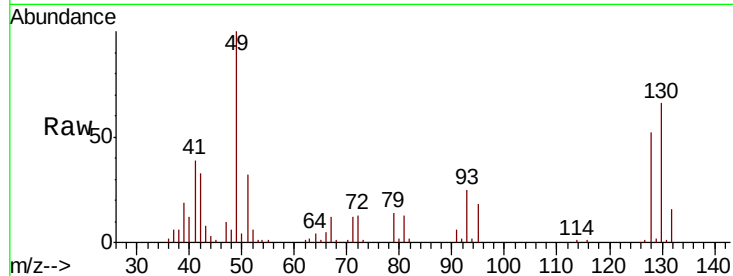
#1
Bromochloromethane
Concen: 30.000 ug/l
RT: 7.19 min Scan# 1686
Delta R.T. 0.00 min
Lab File: VN055077.D
Acq: 16 Apr 2019 14:41

Instrument :
MSVOA_N
ClientSampleId :
VN0416WBSD01

Tot Ion	Ratio	Lower	Upper
128	100		
49	193.4	0.0	480.3
130	128.0	0.0	322.2

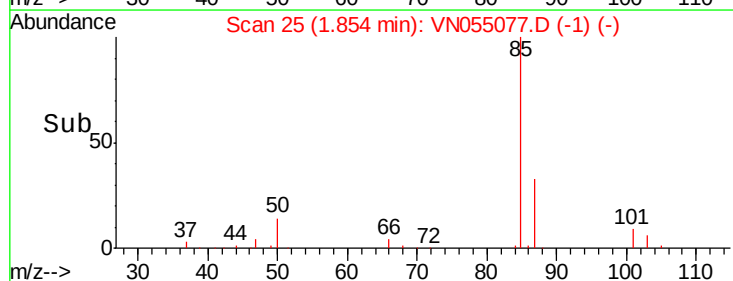
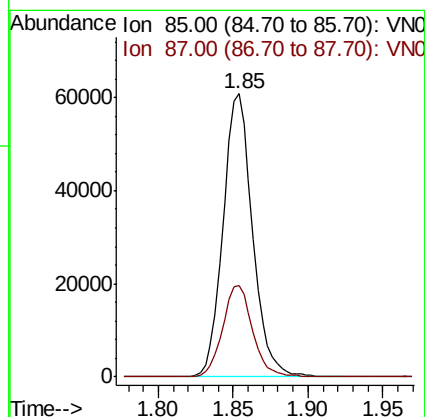
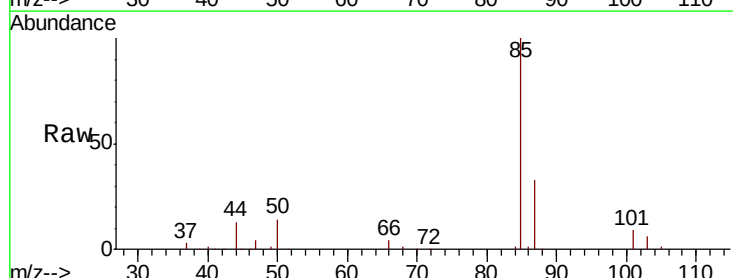
Manual Integrations
APPROVED

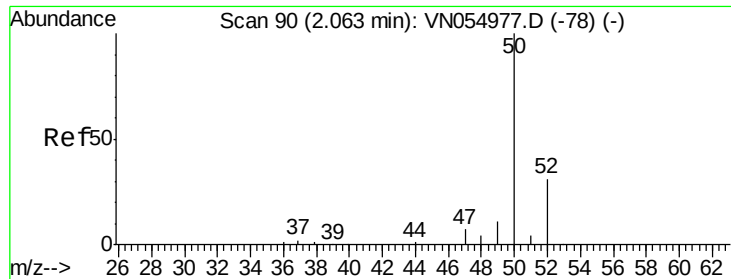
MMDadoda
4/17/2019 4:23:07 AM



#2
Dichlorodifluoromethane
Concen: 19.674 ug/l
RT: 1.85 min Scan# 25
Delta R.T. 0.00 min
Lab File: VN055077.D
Acq: 16 Apr 2019 14:41

Tgt Ion	Ratio	Lower	Upper
85	100		
87	32.5	16.1	48.3





#3

Chloromethane

Concen: 19.422 ug/l

RT: 2.06 min Scan# 90

Delta R.T. 0.00 min

Lab File: VN055077.D

Acq: 16 Apr 2019 14:41

Instrument :

MSVOA_N

ClientSampleId :

VN0416WBSD01

Tot Ion: 50 Resp: 111248

Ion Ratio Lower Upper

50 100

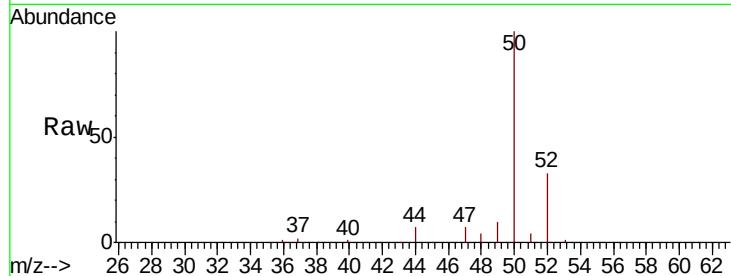
52 32.5 24.5 36.7

Manual Integrations

APPROVED

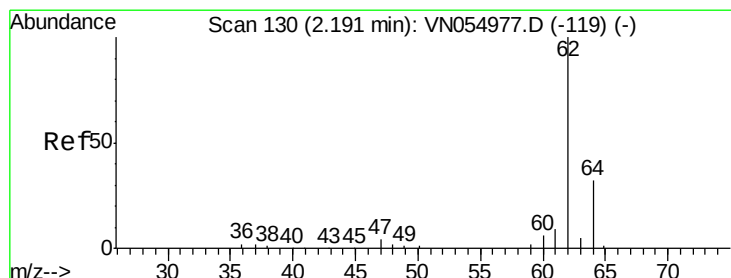
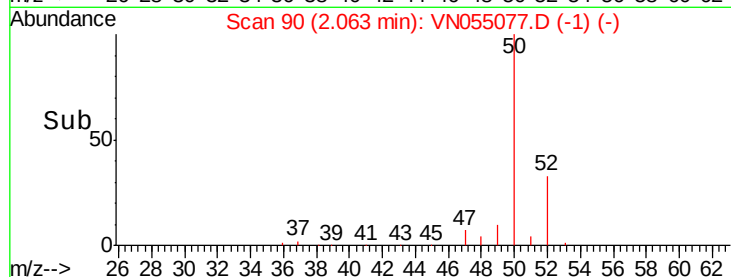
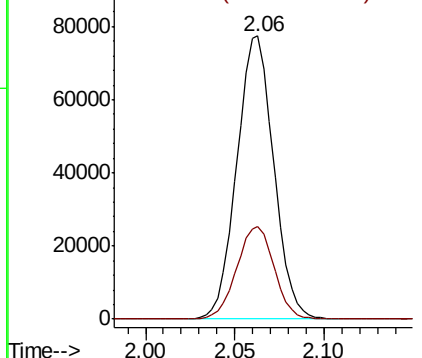
MMDadoda

4/17/2019 4:23:07 AM



Abundance Ion 50.00 (49.70 to 50.70): VN0

Ion 52.00 (51.70 to 52.70): VN0



#4

Vinyl Chloride

Concen: 19.334 ug/l

RT: 2.19 min Scan# 129

Delta R.T. -0.00 min

Lab File: VN055077.D

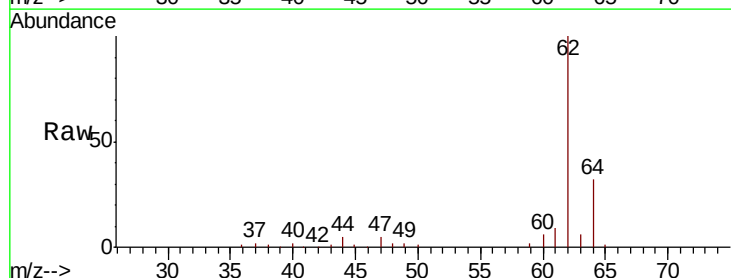
Acq: 16 Apr 2019 14:41

Tgt Ion: 62 Resp: 95767

Ion Ratio Lower Upper

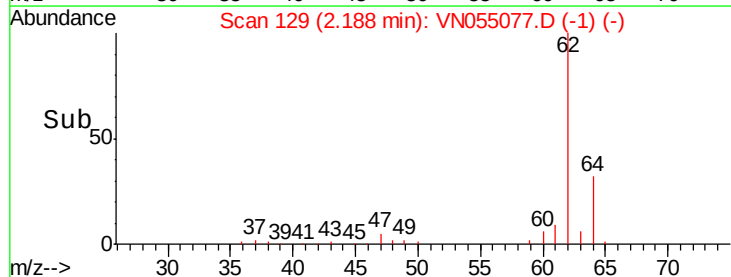
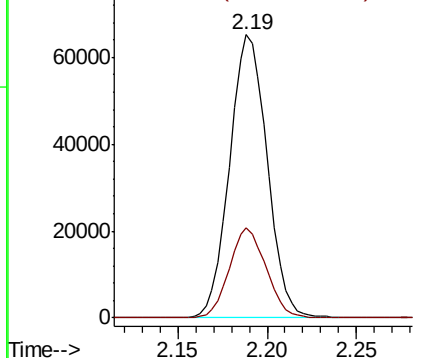
62 100

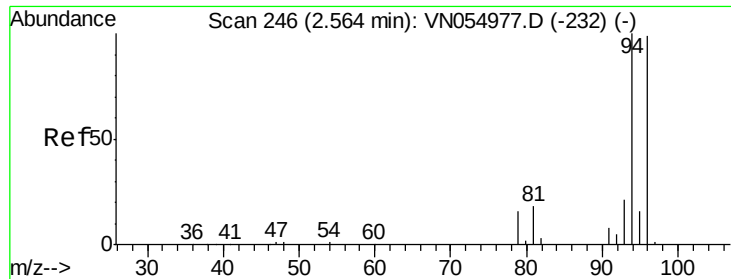
64 31.7 25.6 38.4



Abundance Ion 62.00 (61.70 to 62.70): VN0

Ion 64.00 (63.70 to 64.70): VN0





#5

Bromomethane

Concen: 19.653 ug/l

RT: 2.57 min Scan# 247

Delta R.T. 0.00 min

Lab File: VN055077.D

Acq: 16 Apr 2019 14:41

Instrument :

MSVOA_N

ClientSampleId :

VN0416WBSD01

Tot Ion: 94 Resp: 56308

Ion Ratio Lower Upper

94 100

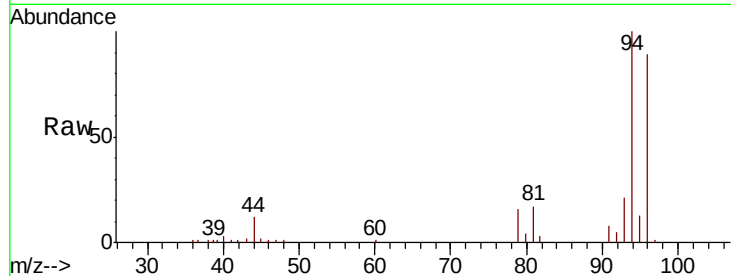
96 89.2 79.1 118.7

Manual Integrations

APPROVED

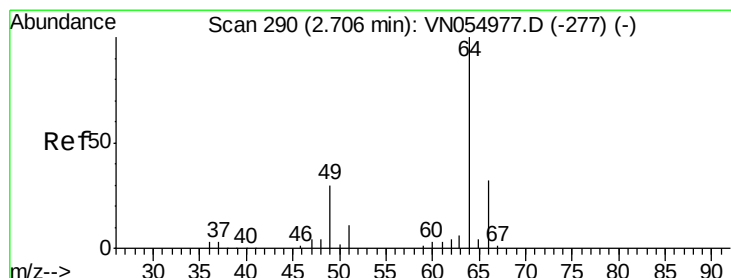
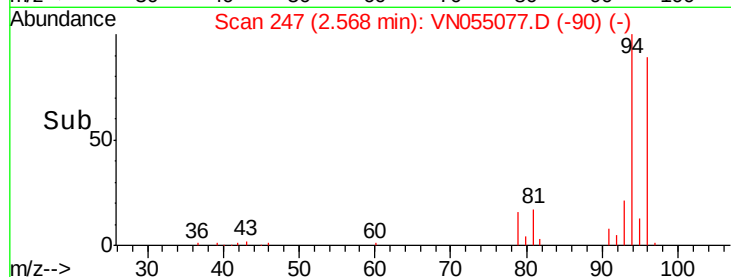
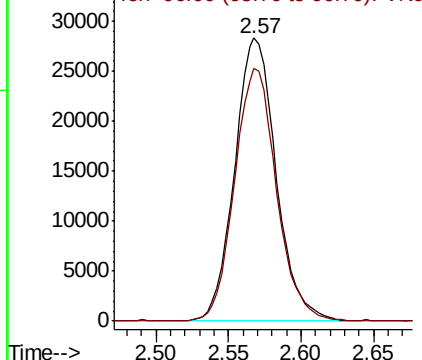
MMDadoda

4/17/2019 4:23:07 AM



Abundance Ion 94.00 (93.70 to 94.70): VN0

Ion 96.00 (95.70 to 96.70): VN0



#6

Chloroethane

Concen: 19.731 ug/l

RT: 2.71 min Scan# 291

Delta R.T. 0.00 min

Lab File: VN055077.D

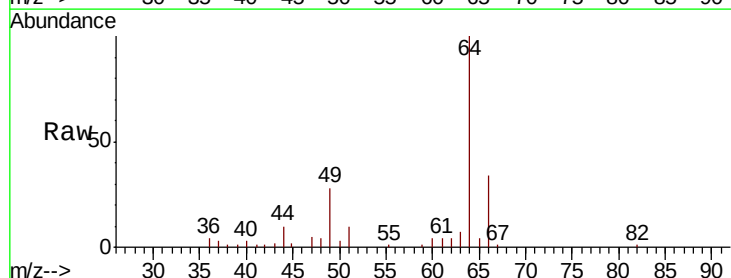
Acq: 16 Apr 2019 14:41

Tgt Ion: 64 Resp: 54736

Ion Ratio Lower Upper

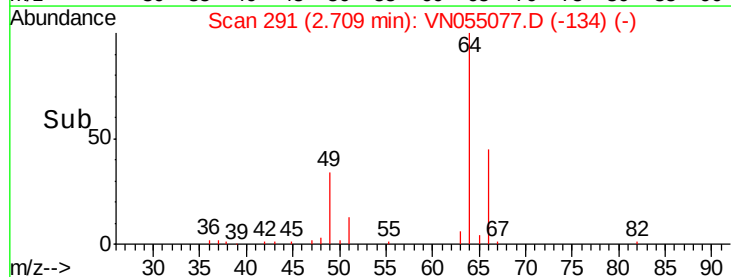
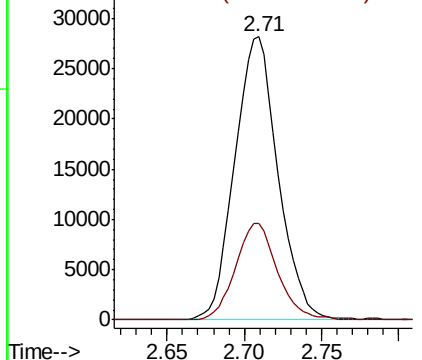
64 100

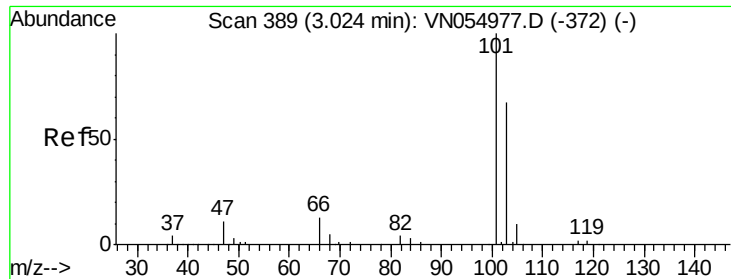
66 34.3 25.7 38.5



Abundance Ion 64.00 (63.70 to 64.70): VN0

Ion 66.00 (65.70 to 66.70): VN0





#7

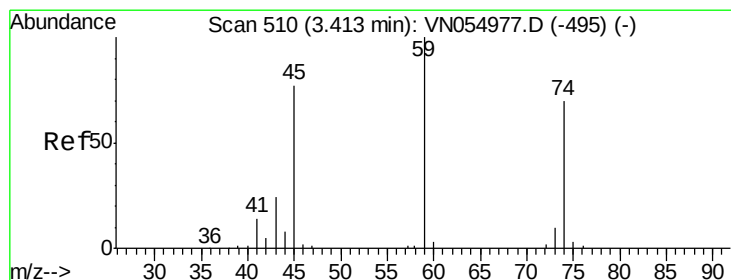
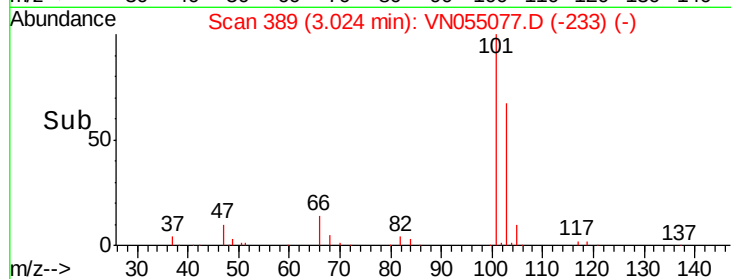
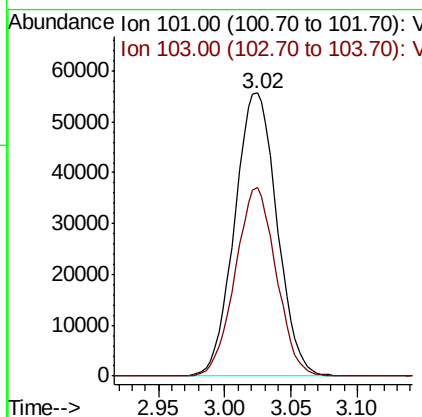
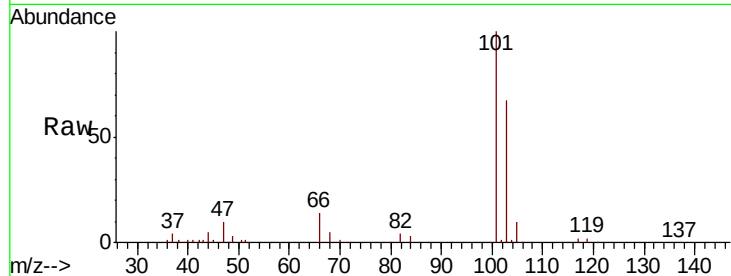
Trichlorofluoromethane
 Concen: 19.539 ug/l
 RT: 3.02 min Scan# 389
 Delta R.T. 0.00 min
 Lab File: VN055077.D
 Acq: 16 Apr 2019 14:41

Instrument :
 MSVOA_N
 ClientSampleId :
 VN0416WBSD01

Tot Ion	Ion	Ratio	Resp	Lower	Upper
101	101	100	123673		
103	103	66.6	53.4	80.0	

Manual Integrations
 APPROVED

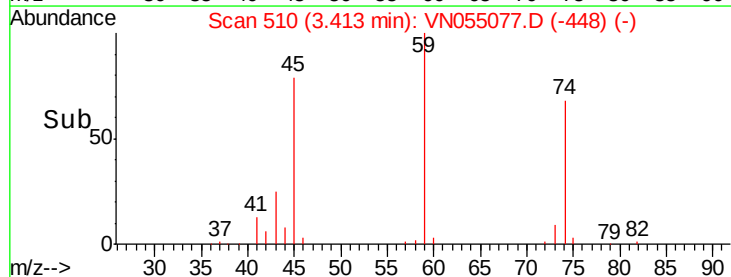
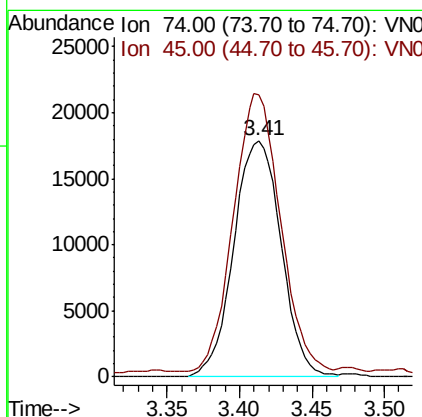
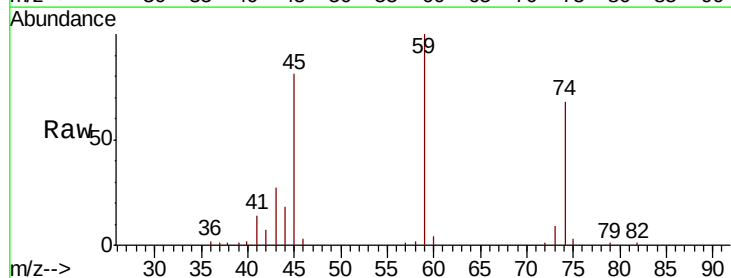
MMDadoda
 4/17/2019 4:23:07 AM

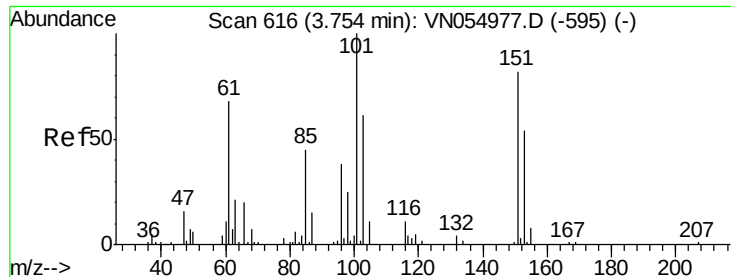


#8

Diethyl Ether
 Concen: 20.000 ug/l
 RT: 3.41 min Scan# 510
 Delta R.T. 0.00 min
 Lab File: VN055077.D
 Acq: 16 Apr 2019 14:41

Tgt Ion	Ion	Ratio	Resp	Lower	Upper
74	74	100	40646		
45	45	116.2	22.9	205.7	





#9

1,1,2-Trichlorotrifluoroethane

Concen: 19.340 ug/l

RT: 3.75 min Scan# 615

Delta R.T. -0.00 min

Lab File: VN055077.D

Acq: 16 Apr 2019 14:41

Instrument :

MSVOA_N

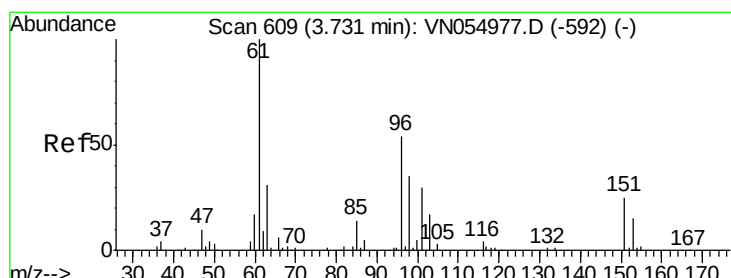
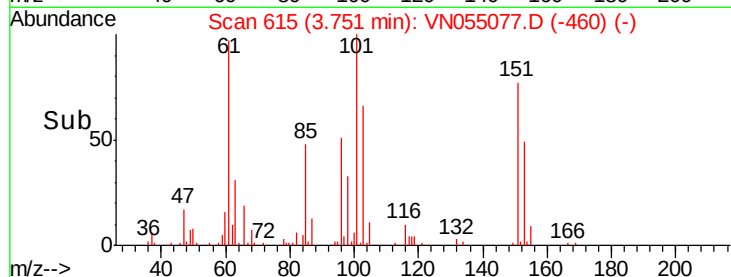
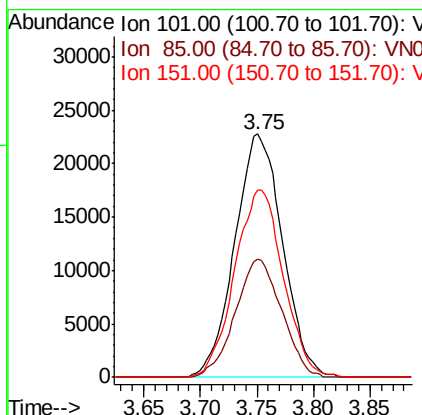
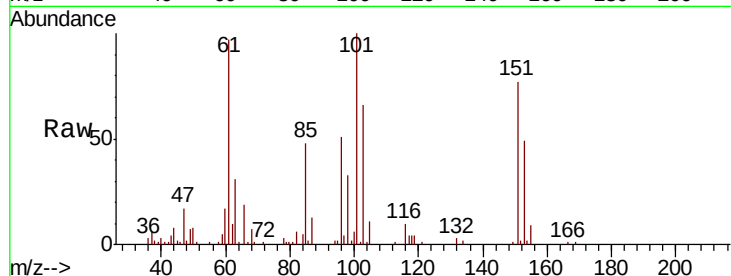
ClientSampleId :

VN0416WBSD01

Tot Ion:	101	Resp:	66914
Ion Ratio	Lower	Upper	
101	100		
85	47.1	0.0	91.4
151	78.4	0.0	165.6

Manual Integrations
APPROVED

MMDadoda
4/17/2019 4:23:07 AM



#10

1,1-Dichloroethene

Concen: 19.373 ug/l

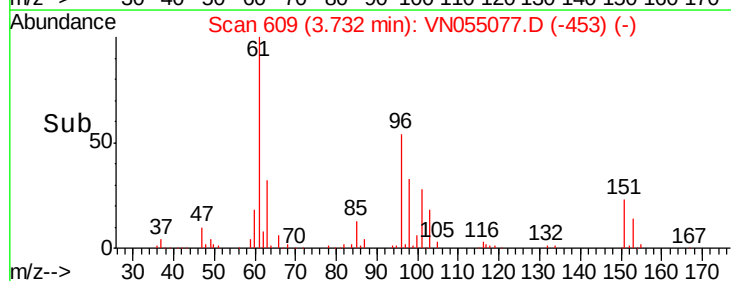
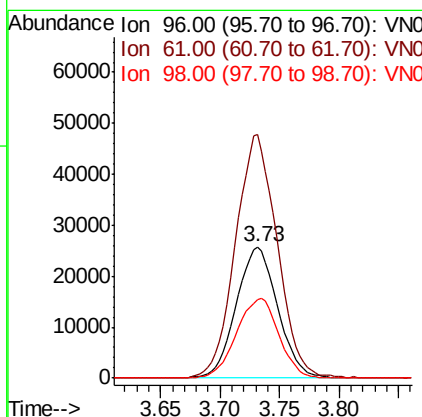
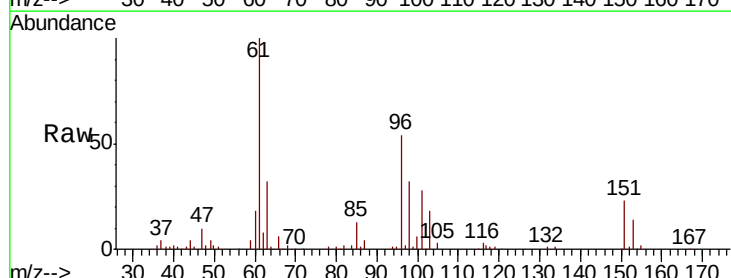
RT: 3.73 min Scan# 609

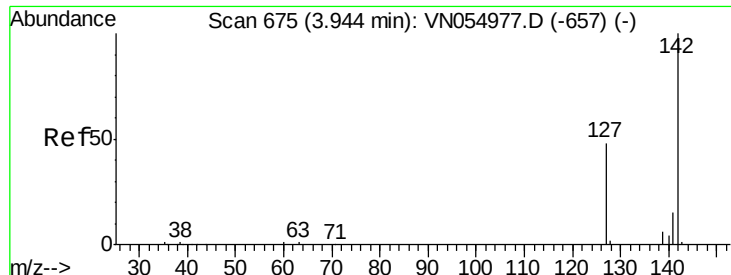
Delta R.T. 0.00 min

Lab File: VN055077.D

Acq: 16 Apr 2019 14:41

Tgt Ion:	96	Resp:	61973
Ion Ratio	Lower	Upper	
96	100		
61	184.8	148.4	222.6
98	60.2	52.2	78.2





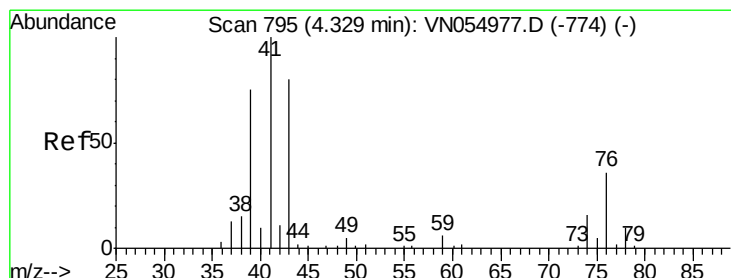
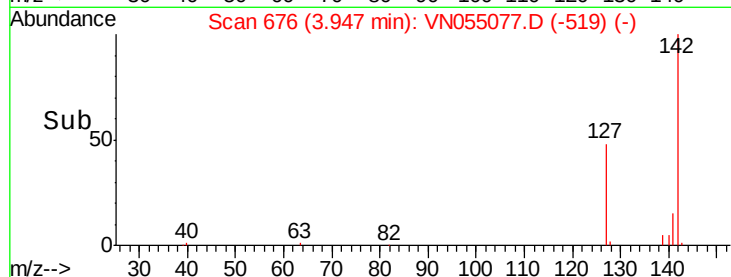
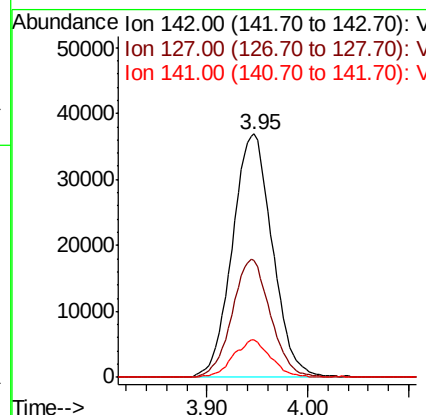
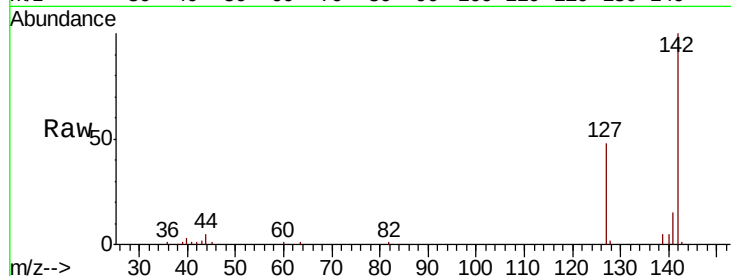
#11
Methvl Iodide
Concen: 21.003 ug/l
RT: 3.95 min Scan# 676
Delta R.T. 0.00 min
Lab File: VN055077.D
Acq: 16 Apr 2019 14:41

Instrument :
MSVOA_N
ClientSampleId :
VN0416WBSD01

Tot Ion	Ratio	Lower	Upper
142	100		
127	48.2	23.8	71.5
141	14.9	7.3	22.0

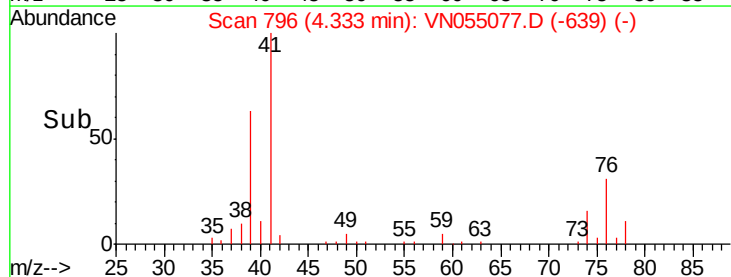
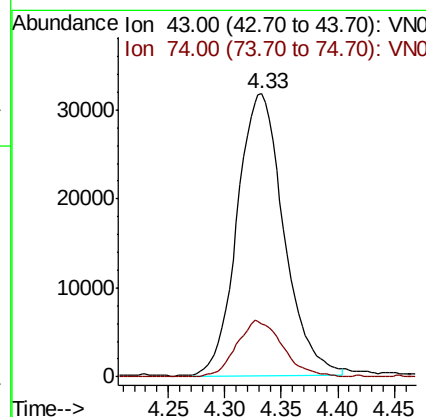
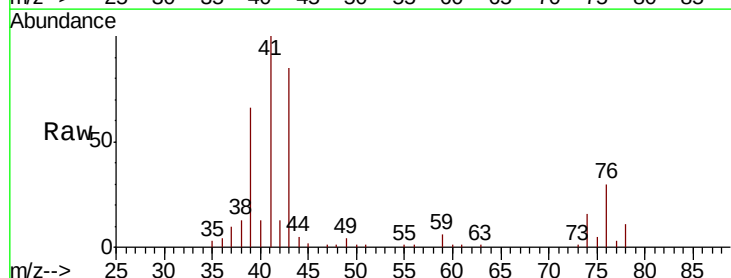
Manual Integrations
APPROVED

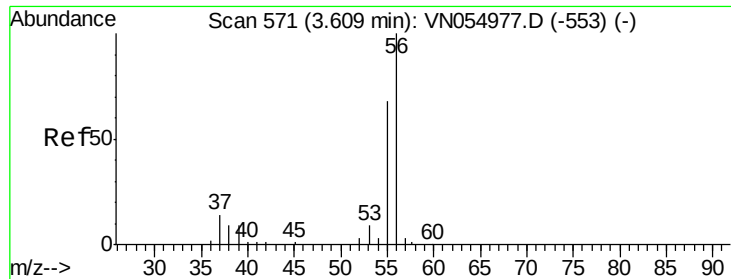
MMDadoda
4/17/2019 4:23:07 AM



#12
Methyl Acetate
Concen: 23.061 ug/l
RT: 4.33 min Scan# 796
Delta R.T. 0.00 min
Lab File: VN055077.D
Acq: 16 Apr 2019 14:41

Tgt Ion	Ratio	Lower	Upper
43	100		
74	19.1	16.2	24.4





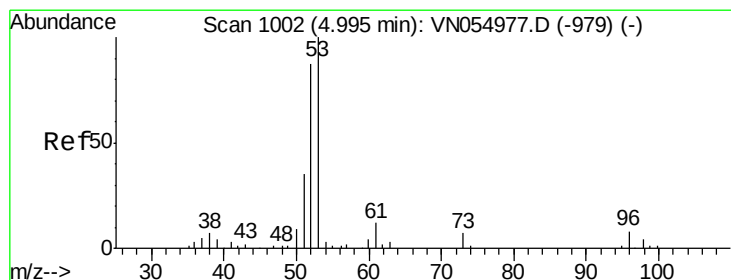
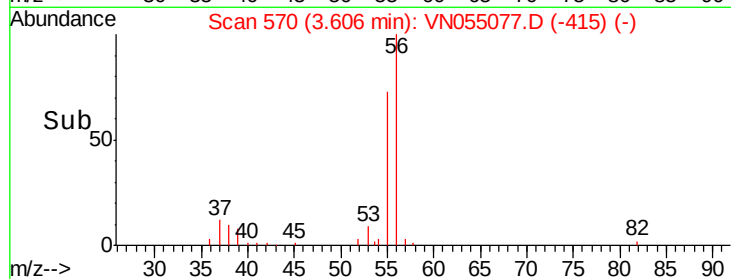
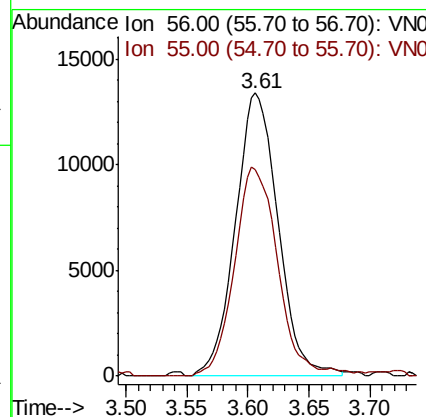
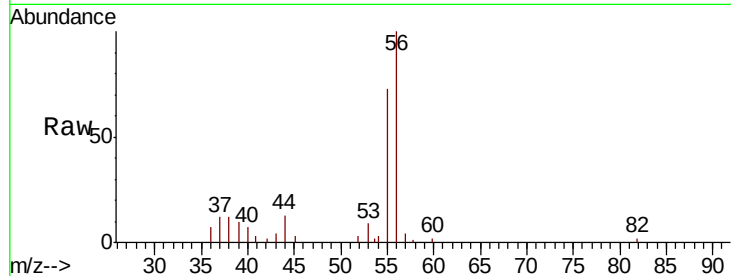
#13
Acrolein
Concen: 94.316 ug/l
RT: 3.61 min Scan# 570
Delta R.T. -0.00 min
Lab File: VN055077.D
Acq: 16 Apr 2019 14:41

Instrument :
MSVOA_N
ClientSampleId :
VN0416WBSD01

Tot Ion	Ion	Ratio	Lower	Upper
56	100			
55	73.8	57.0	85.4	

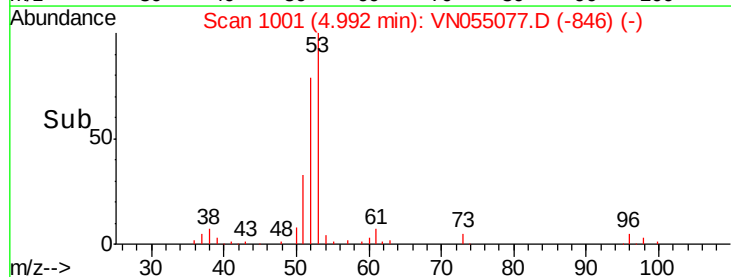
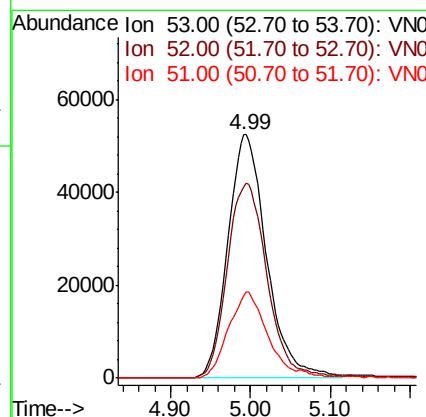
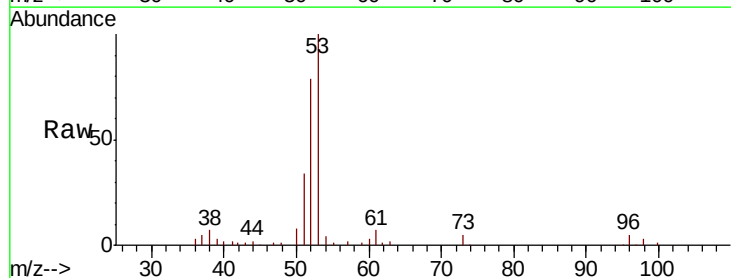
Manual Integrations
APPROVED

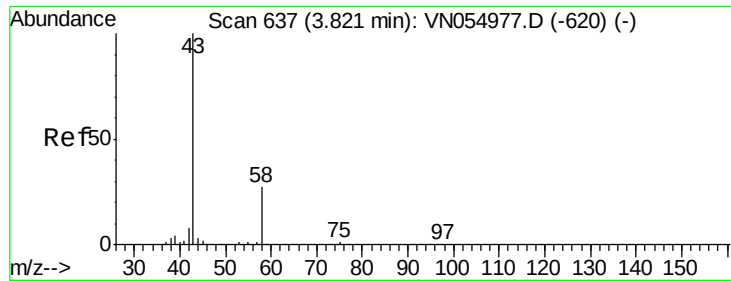
MMDadoda
4/17/2019 4:23:07 AM



#14
Acrylonitrile
Concen: 107.444 ug/l
RT: 4.99 min Scan# 1001
Delta R.T. -0.00 min
Lab File: VN055077.D
Acq: 16 Apr 2019 14:41

Tgt Ion	Ion	Ratio	Lower	Upper
53	100			
52	81.9	42.3	126.8	
51	34.6	18.6	56.0	





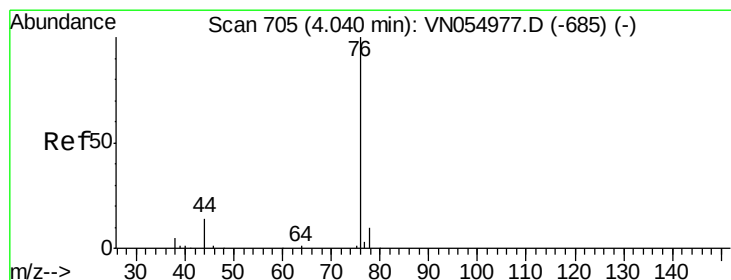
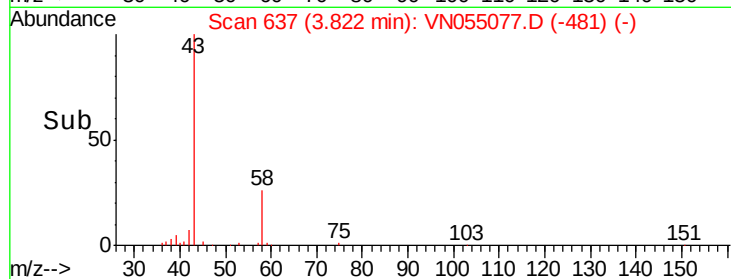
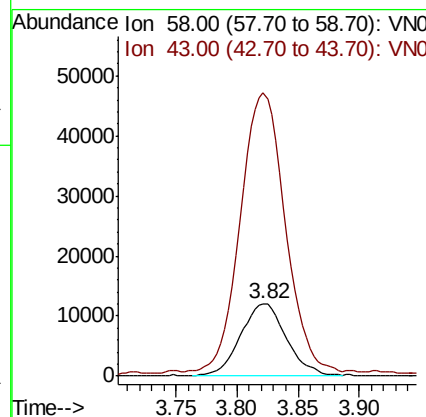
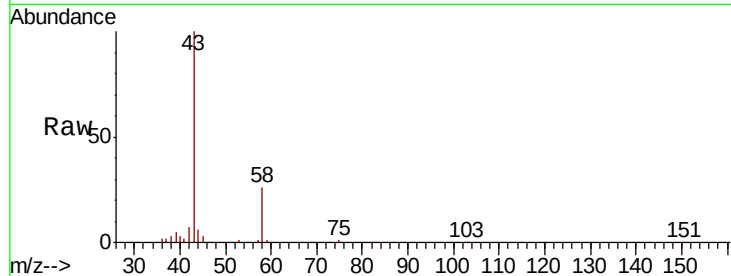
#15
Acetone
Concen: 79.271 ug/l
RT: 3.82 min Scan# 637
Delta R.T. 0.00 min
Lab File: VN055077.D
Acq: 16 Apr 2019 14:41

Instrument :
MSVOA_N
ClientSampleId :
VN0416WBSD01

Tot Ion	Ion	Ratio	Lower	Upper
58	100			
43	382.3	297.2	445.8	

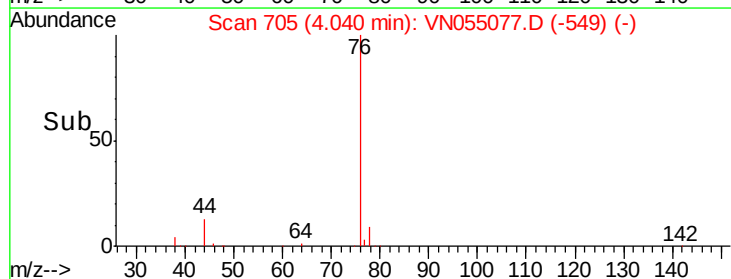
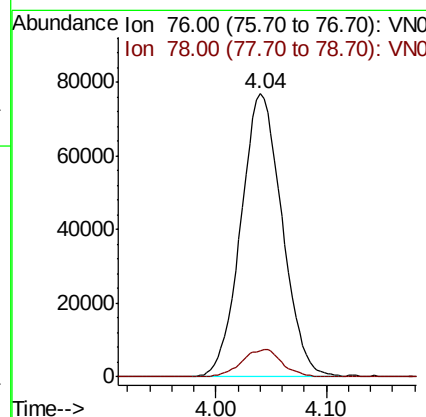
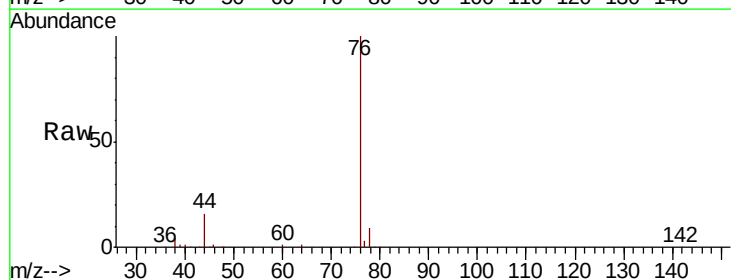
Manual Integrations
APPROVED

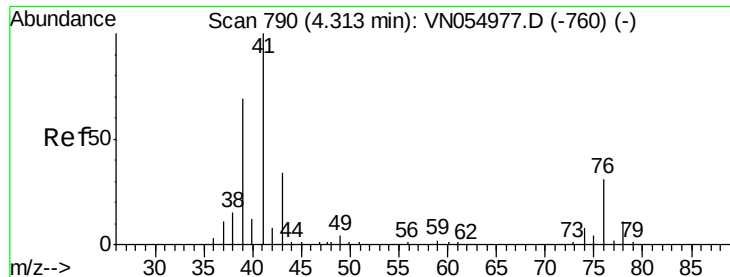
MMDadoda
4/17/2019 4:23:07 AM



#16
Carbon Disulfide
Concen: 18.526 ug/l
RT: 4.04 min Scan# 705
Delta R.T. 0.00 min
Lab File: VN055077.D
Acq: 16 Apr 2019 14:41

Tgt Ion	Ion	Ratio	Lower	Upper
76	100			
78	9.3	7.8	11.6	





#17

Allvl chloride

Concen: 20.618 ug/l

RT: 4.32 min Scan# 791

Delta R.T. 0.00 min

Lab File: VN055077.D

Acq: 16 Apr 2019 14:41

Instrument :

MSVOA_N

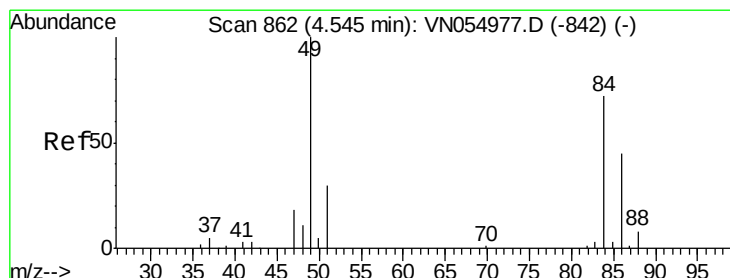
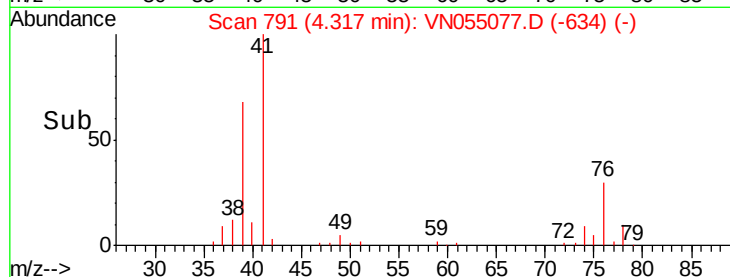
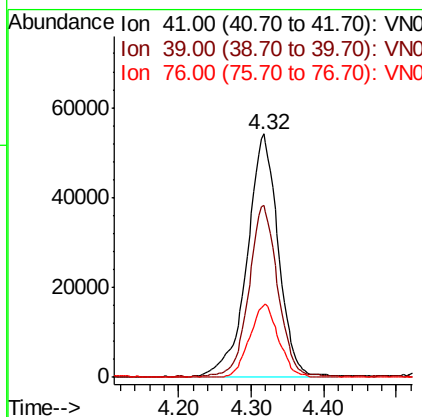
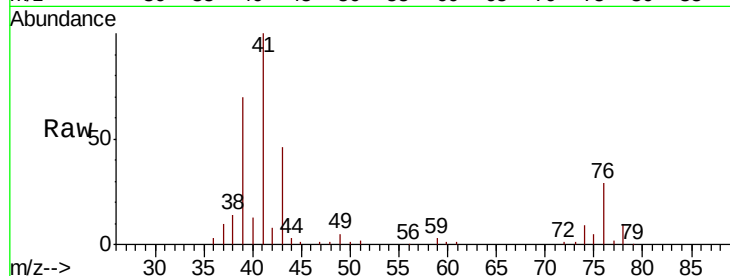
ClientSampleId :

VN0416WBSD01

Tot Ion:	41	Resp:	162422
Ion Ratio	Lower	Upper	
41	100		
39	70.1	34.3	102.9
76	29.5	15.8	47.3

Manual Integrations
APPROVED

MMDadoda
4/17/2019 4:23:07 AM



#18

Methylene Chloride

Concen: 19.996 ug/l

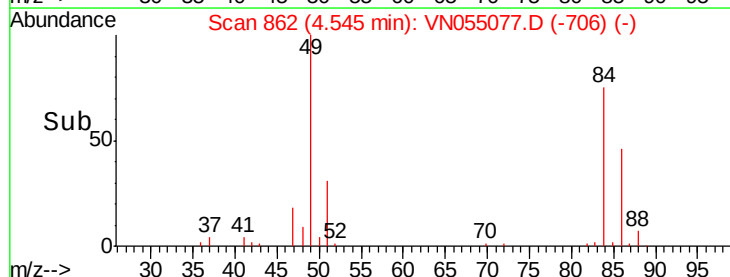
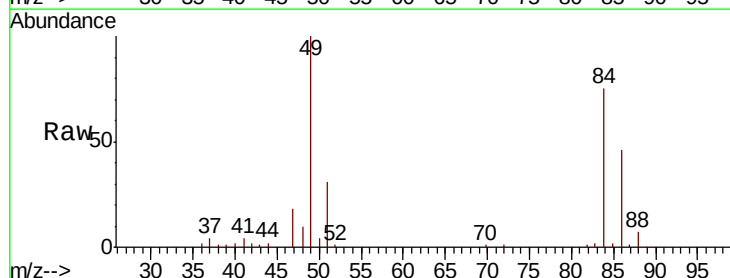
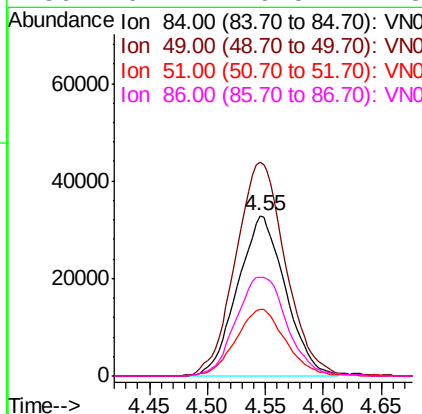
RT: 4.55 min Scan# 862

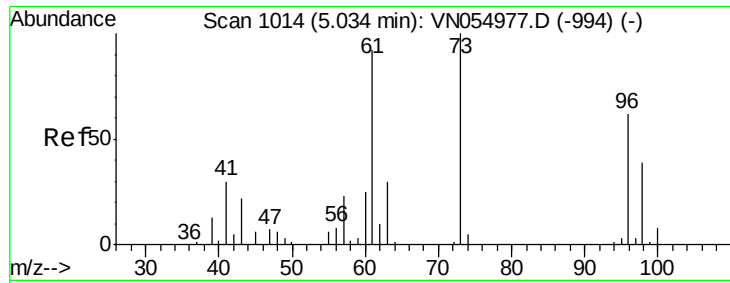
Delta R.T. 0.00 min

Lab File: VN055077.D

Acq: 16 Apr 2019 14:41

Tgt Ion:	84	Resp:	94553
Ion Ratio	Lower	Upper	
84	100		
49	132.3	111.0	166.4
51	41.7	33.4	50.2
86	61.7	49.5	74.3





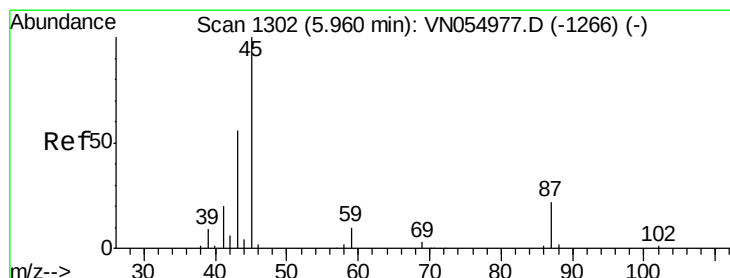
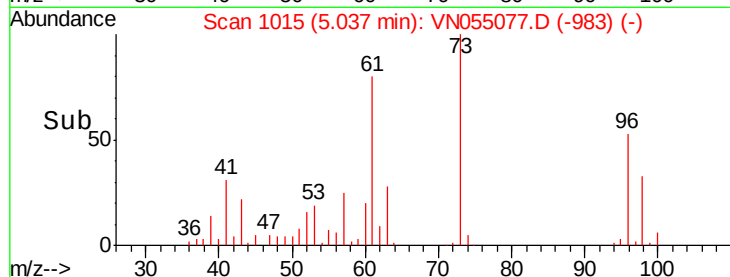
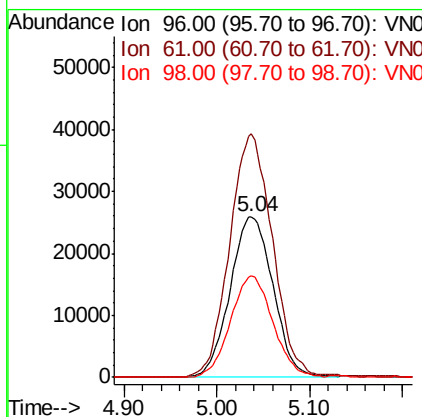
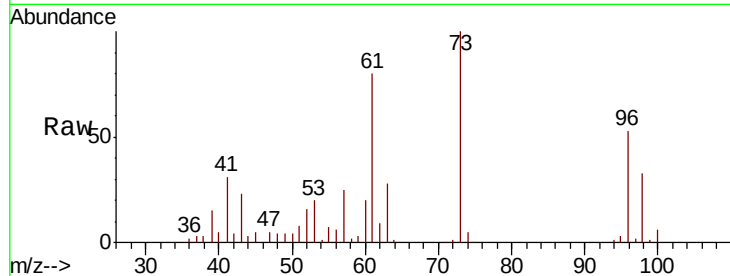
#19
trans-1,2-Dichloroethene
Concen: 20.036 ug/l
RT: 5.04 min Scan# 1015
Delta R.T. 0.00 min
Lab File: VN055077.D
Acq: 16 Apr 2019 14:41

Instrument :
MSVOA_N
ClientSampleId :
VN0416WBSD01

Tot Ion	Ratio	Lower	Upper
96	100		
61	150.7	117.2	175.8
98	62.9	49.4	74.2

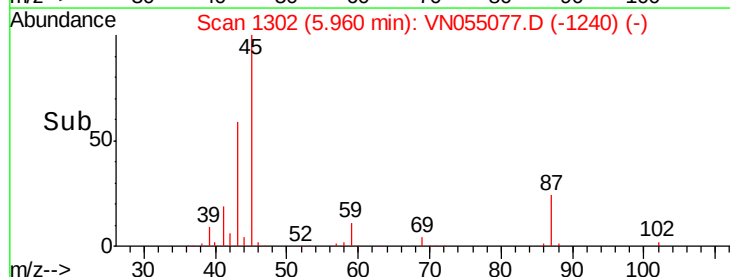
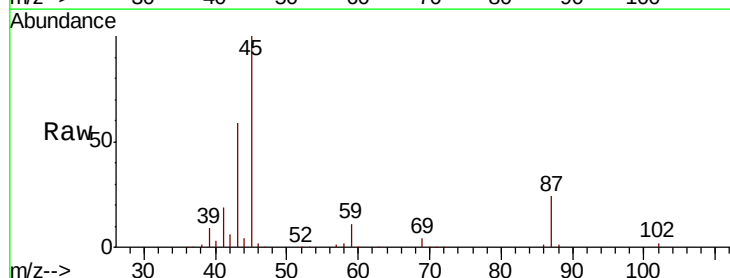
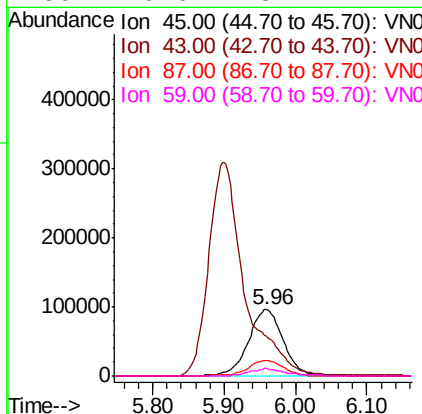
Manual Integrations
APPROVED

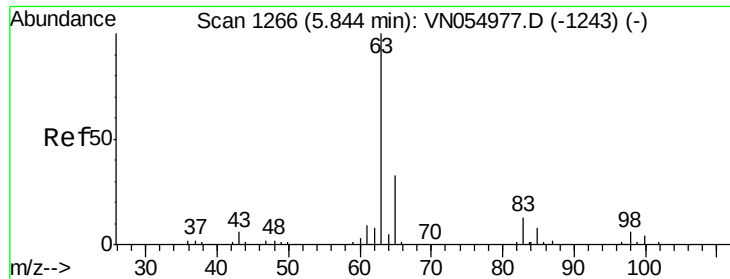
MMDadoda
4/17/2019 4:23:07 AM



#20
Diisopropyl ether
Concen: 20.511 ug/l
RT: 5.96 min Scan# 1302
Delta R.T. 0.00 min
Lab File: VN055077.D
Acq: 16 Apr 2019 14:41

Tgt Ion	Ratio	Lower	Upper
45	100		
43	57.1	45.8	68.8
87	23.3	18.2	27.4
59	10.6	8.2	12.2





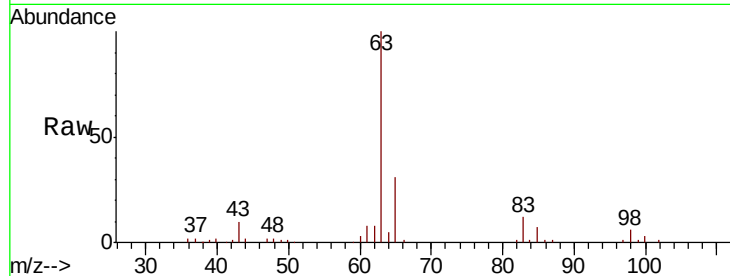
#21
 1,1-Dichloroethane
 Concen: 20.449 ug/l
 RT: 5.85 min Scan# 1267
 Delta R.T. 0.00 min
 Lab File: VN055077.D
 Acq: 16 Apr 2019 14:41

Instrument :
 MSVOA_N
 ClientSampled :
 VN0416WBSD01

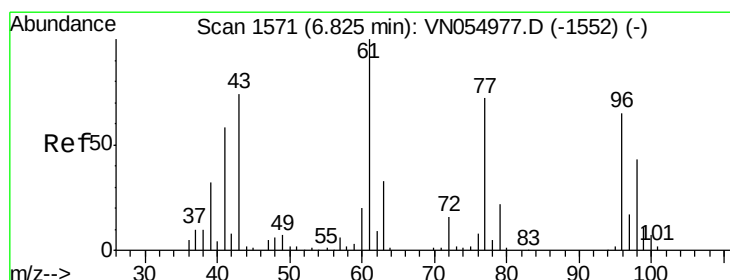
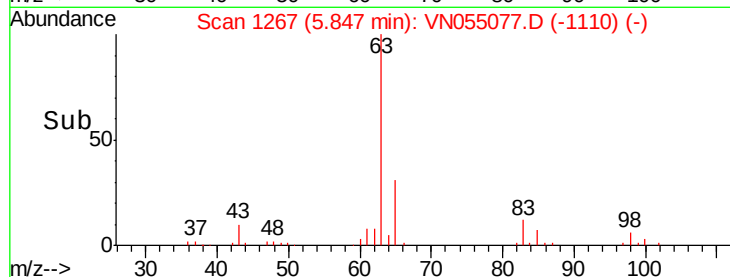
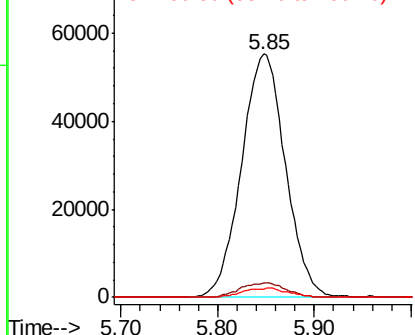
Tot Ion	Ratio	Resp	Lower	Upper
63	100	174303		
98	5.9		2.9	8.7
100	3.3		2.0	5.8

Manual Integrations
 APPROVED

MMDadoda
 4/17/2019 4:23:07 AM

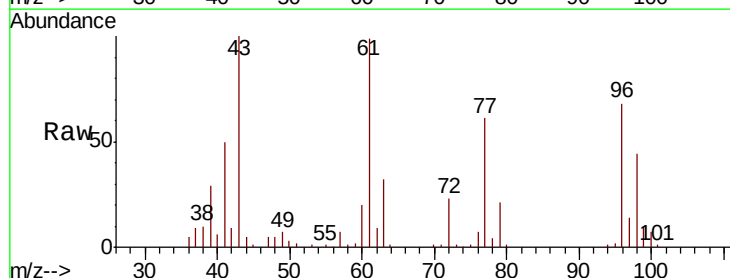


Abundance Ion 63.00 (62.70 to 63.70): VN0
 Ion 98.00 (97.70 to 98.70): VN0
 Ion 100.00 (99.70 to 100.70): VN0

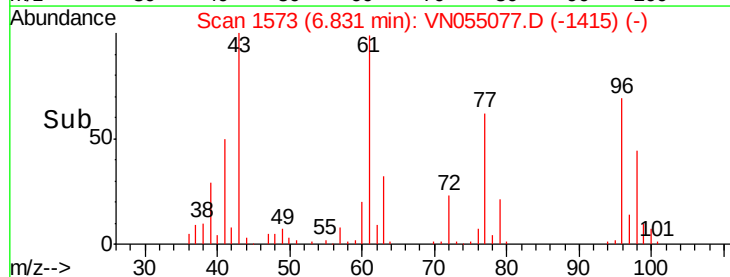
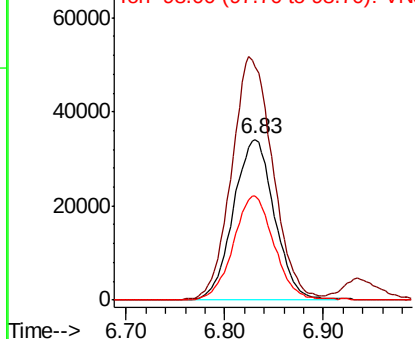


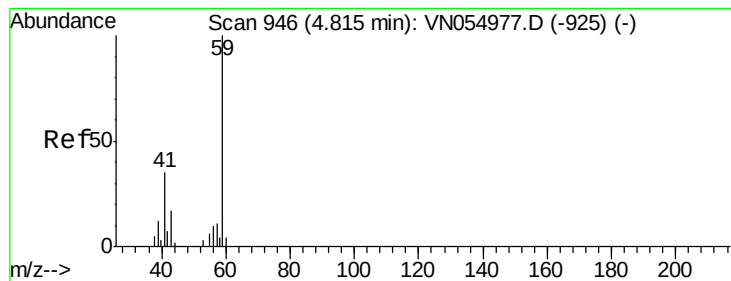
#22
 cis-1,2-Dichloroethene
 Concen: 20.397 ug/l
 RT: 6.83 min Scan# 1573
 Delta R.T. 0.01 min
 Lab File: VN055077.D
 Acq: 16 Apr 2019 14:41

Tgt Ion	Ratio	Resp	Lower	Upper
96	100	98725		
61	152.0		125.0	187.6
98	63.9		52.2	78.2



Abundance Ion 96.00 (95.70 to 96.70): VN0
 Ion 61.00 (60.70 to 61.70): VN0
 Ion 98.00 (97.70 to 98.70): VN0





#23

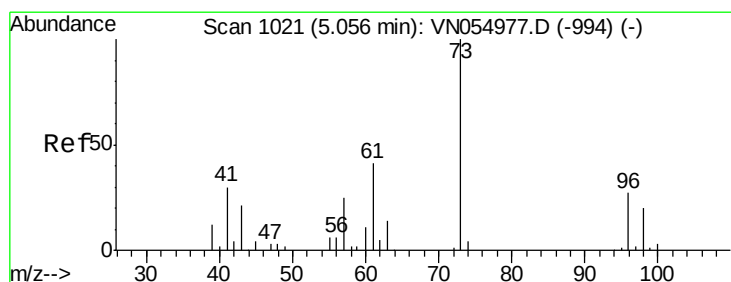
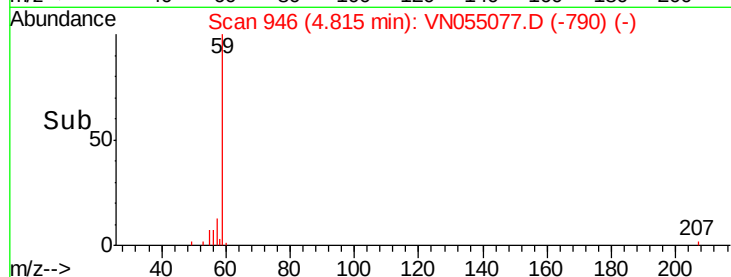
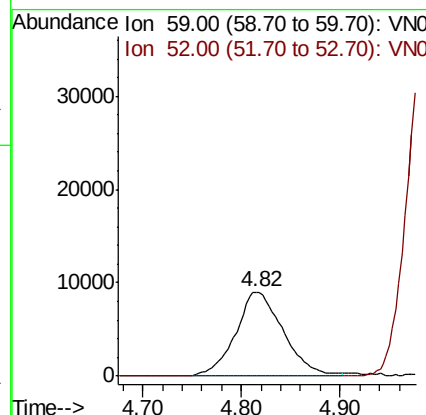
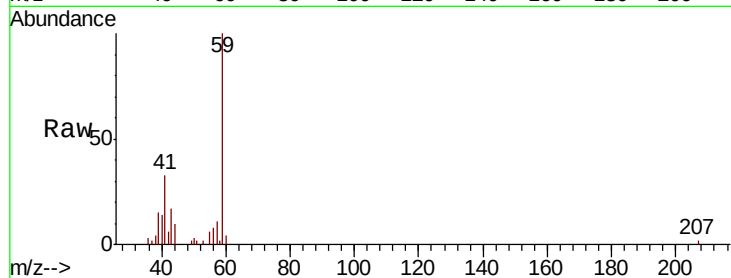
tert-Butyl Alcohol
 Concen: 117.383 ug/l
 RT: 4.82 min Scan# 946
 Delta R.T. 0.00 min
 Lab File: VN055077.D
 Acq: 16 Apr 2019 14:41

Instrument :
 MSVOA_N
 ClientSampleId :
 VN0416WBSD01

Tot Ion: 59 Resp: 30172
 Ion Ratio Lower Upper
 59 100
 52 0.0 0.0 0.0

Manual Integrations
 APPROVED

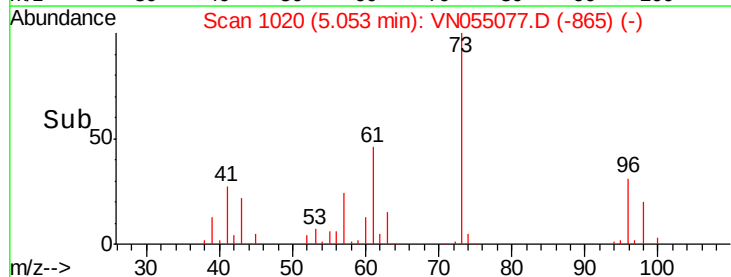
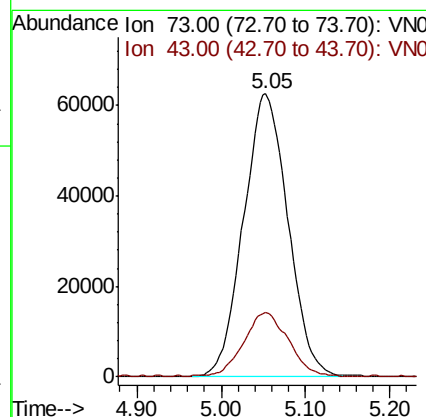
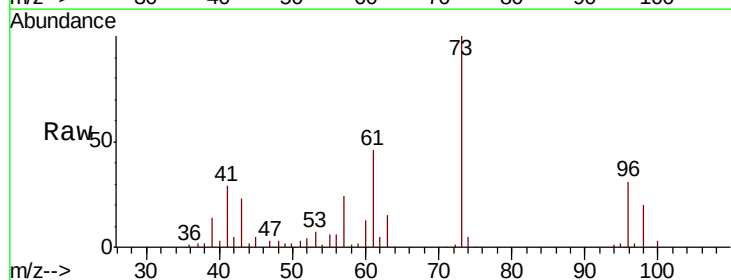
MMDadoda
 4/17/2019 4:23:07 AM

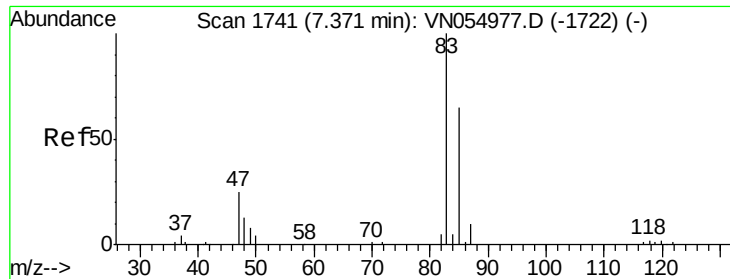


#24

Methyl tert-Butyl Ether
 Concen: 21.347 ug/l
 RT: 5.05 min Scan# 1020
 Delta R.T. -0.00 min
 Lab File: VN055077.D
 Acq: 16 Apr 2019 14:41

Tgt Ion: 73 Resp: 229296
 Ion Ratio Lower Upper
 73 100
 43 22.3 8.0 12.0#





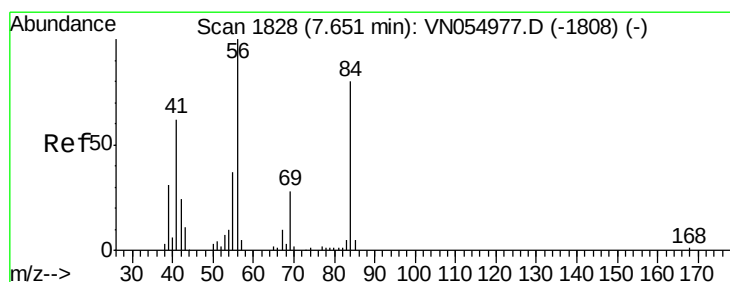
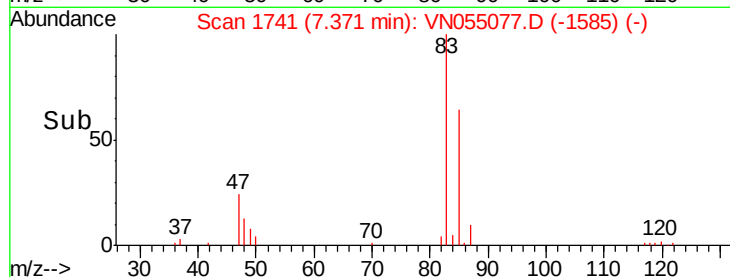
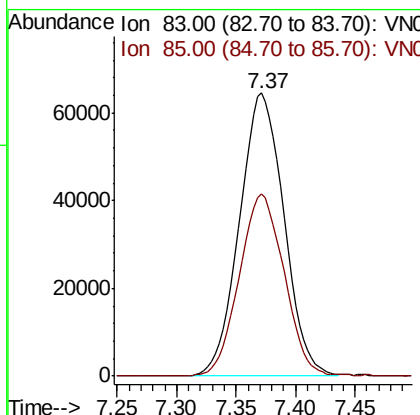
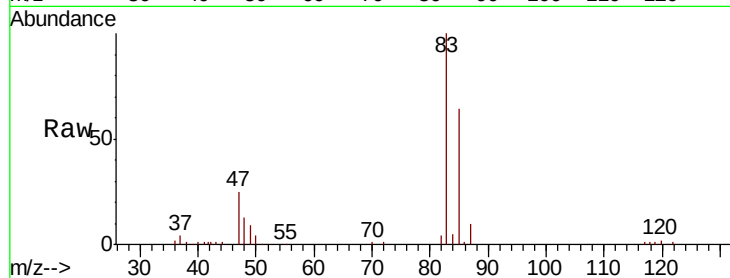
#25
Chloroform
Concen: 20.478 ug/l
RT: 7.37 min Scan# 1741
Delta R.T. 0.00 min
Lab File: VN055077.D
Acq: 16 Apr 2019 14:41

Instrument :
MSVOA_N
ClientSampleId :
VN0416WBSD01

Tot Ion	83	Resp	167198
Ion Ratio	Lower	Upper	
83	100		
85	64.1	51.8	77.8

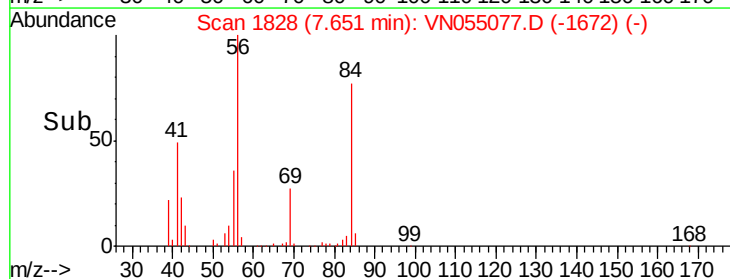
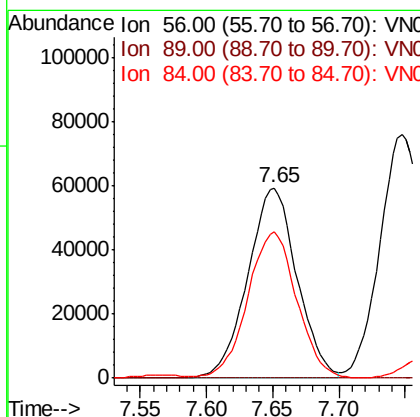
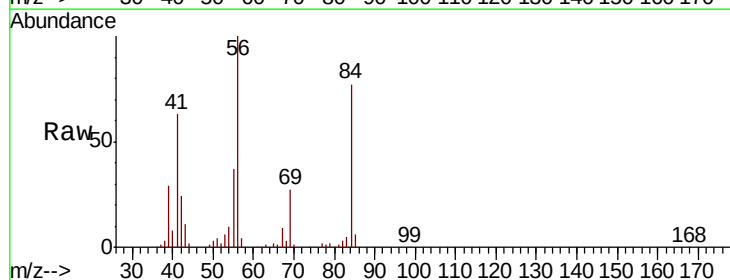
Manual Integrations
APPROVED

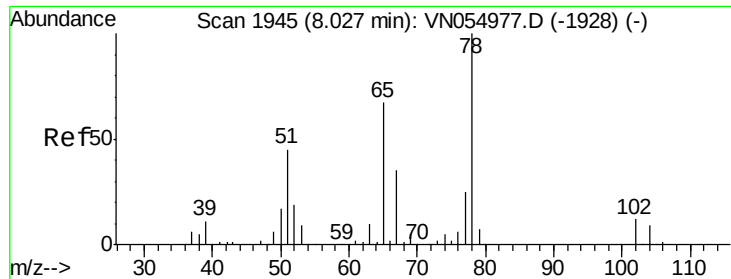
MMDadoda
4/17/2019 4:23:07 AM



#26
Cyclohexane
Concen: 19.392 ug/l
RT: 7.65 min Scan# 1828
Delta R.T. 0.00 min
Lab File: VN055077.D
Acq: 16 Apr 2019 14:41

Tgt Ion	56	Resp	153367
Ion Ratio	Lower	Upper	
56	100		
89	0.0	0.0	0.0
84	75.9	63.5	95.3





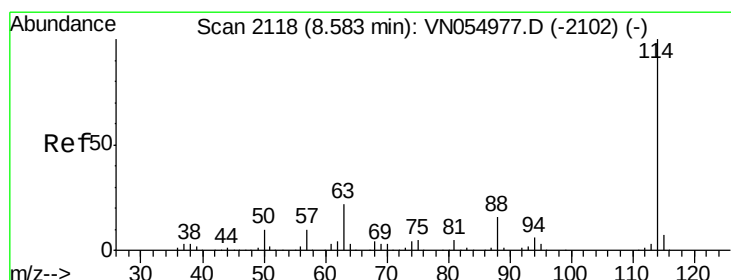
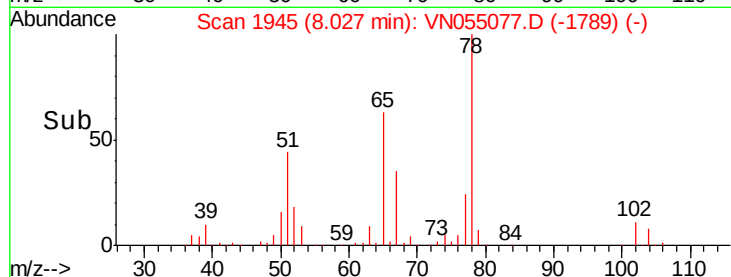
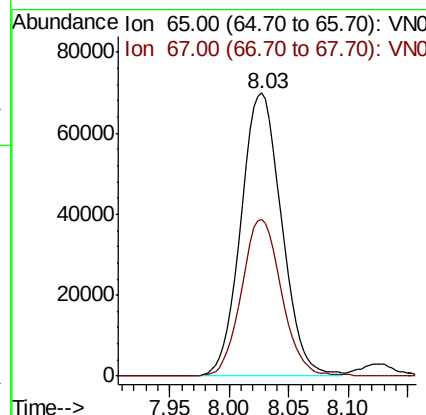
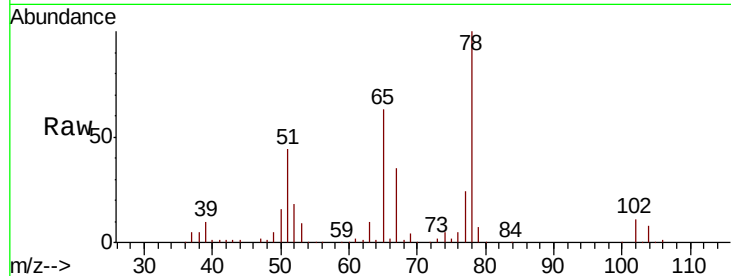
#27
 1,2-Dichloroethane-d4
 Concen: 19.392 ug/l
 RT: 8.03 min Scan# 1945
 Delta R.T. 0.00 min
 Lab File: VN055077.D
 Acq: 16 Apr 2019 14:41

Instrument :
 MSVOA_N
 ClientSampleId :
 VN0416WBSD01

Tot Ion	Ratio	Resp	Lower	Upper
65	100	166182		
67	54.6	41.8	62.8	

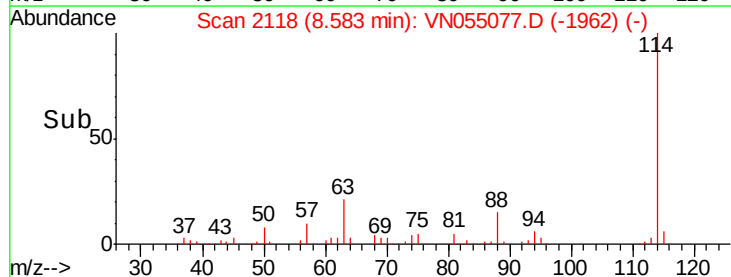
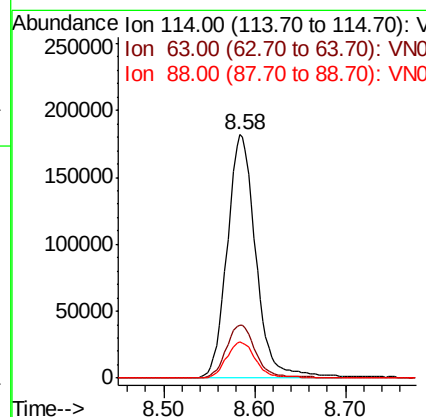
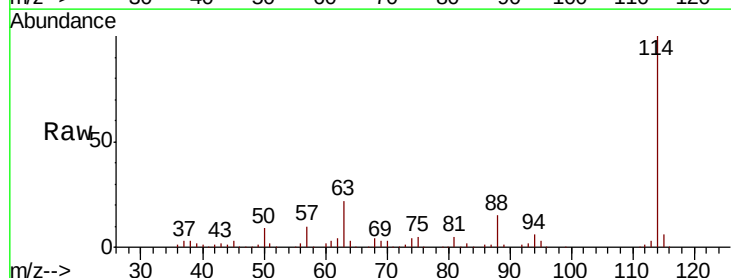
Manual Integrations
 APPROVED

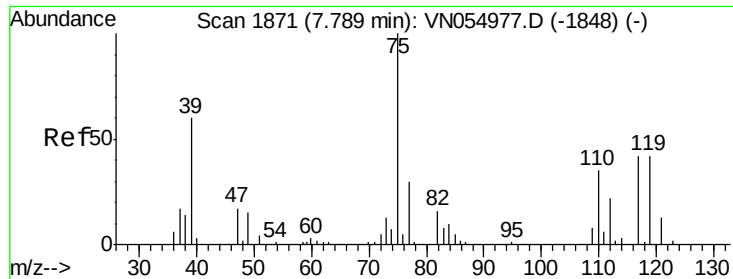
MMDadoda
 4/17/2019 4:23:07 AM



#28
 1,4-Difluorobenzene
 Concen: 30.000 ug/l
 RT: 8.58 min Scan# 2118
 Delta R.T. 0.00 min
 Lab File: VN055077.D
 Acq: 16 Apr 2019 14:41

Tgt Ion	Ratio	Resp	Lower	Upper
114	100	398404		
63	22.1	17.0	25.4	
88	15.1	12.3	18.5	





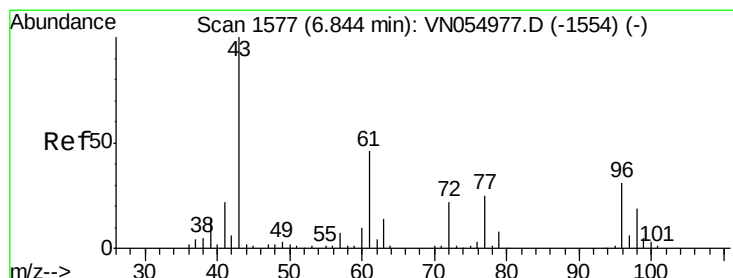
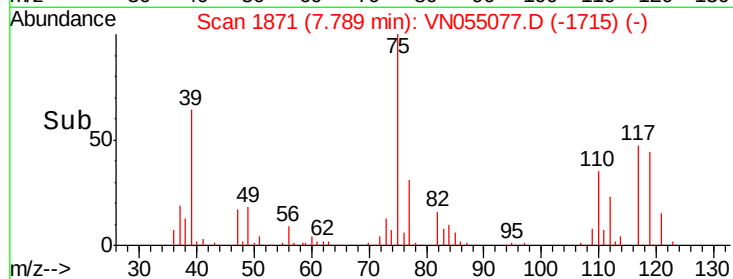
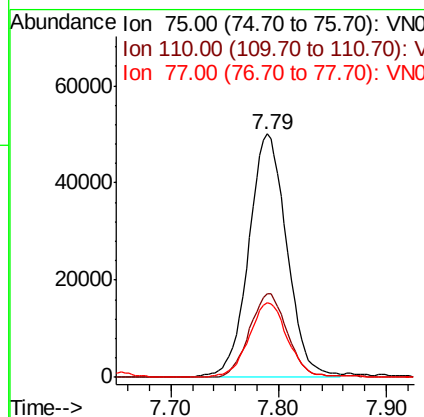
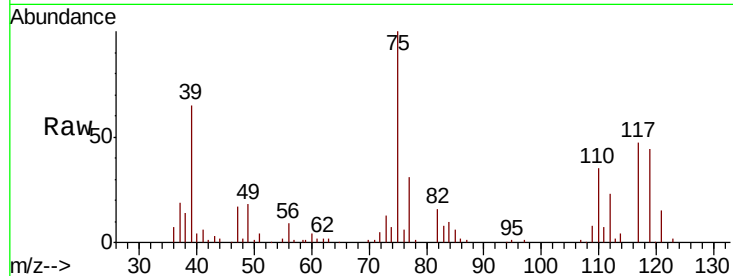
#29
 1,1-Dichloropropene
 Concen: 19.786 ug/l
 RT: 7.79 min Scan# 1871
 Delta R.T. 0.00 min
 Lab File: VN055077.D
 Acq: 16 Apr 2019 14:41

Instrument :
 MSVOA_N
 ClientSampleId :
 VN0416WBSD01

Tot Ion	Ratio	Resp Lower	Upper
75	100		
110	34.1	0.0	68.4
77	31.5	0.0	58.6

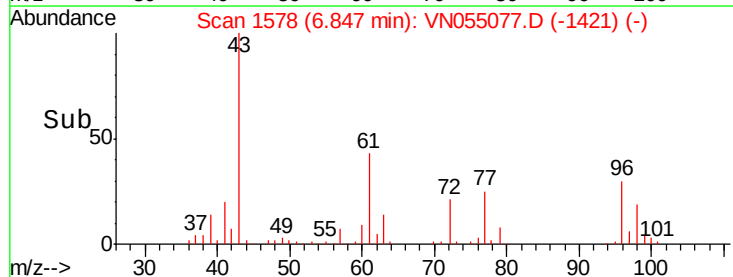
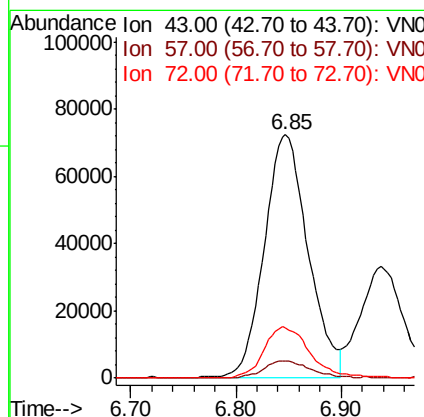
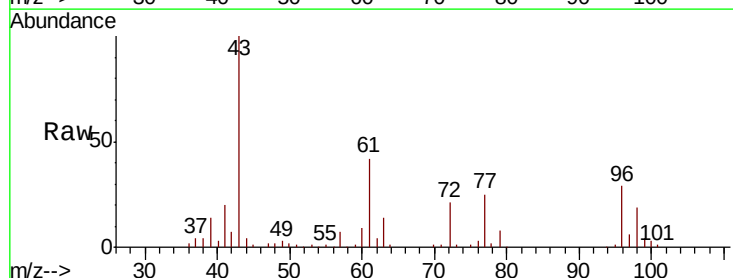
Manual Integrations
 APPROVED

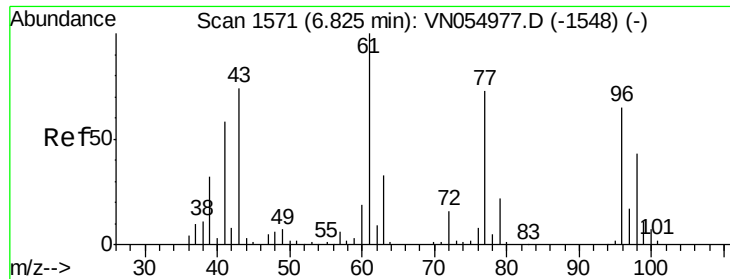
MMDadoda
 4/17/2019 4:23:07 AM



#30
 2-Butanone
 Concen: 100.999 ug/l
 RT: 6.85 min Scan# 1578
 Delta R.T. 0.00 min
 Lab File: VN055077.D
 Acq: 16 Apr 2019 14:41

Tgt Ion	Ratio	Resp Lower	Upper
43	100		
57	7.5	6.0	9.0
72	22.3	18.6	27.8





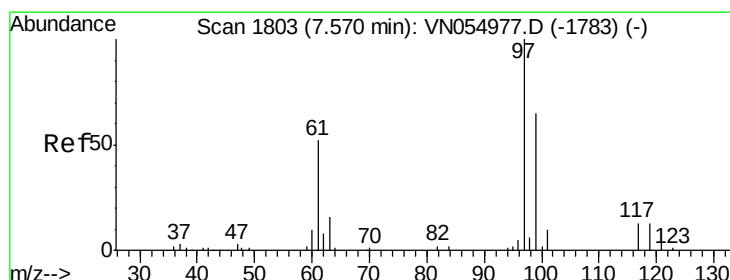
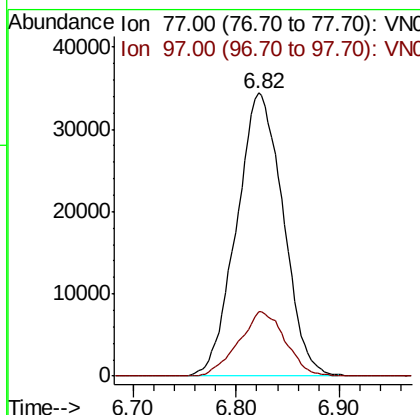
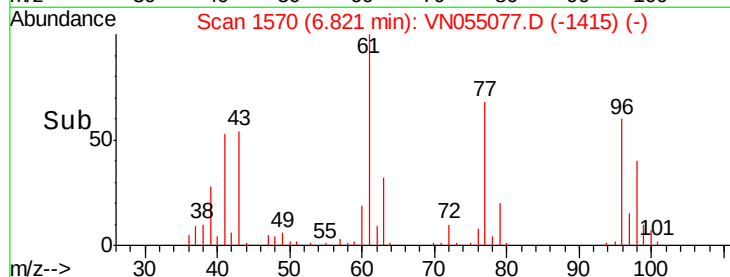
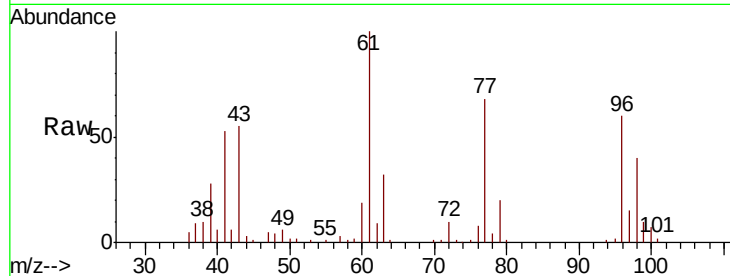
#31
 2,2-Dichloropropane
 Concen: 18.864 ug/l
 RT: 6.82 min Scan# 1570
 Delta R.T. -0.00 min
 Lab File: VN055077.D
 Acq: 16 Apr 2019 14:41

Instrument :
 MSVOA_N
 ClientSampleId :
 VN0416WBSD01

Tot Ion: 77 Resp: 107728
 Ion Ratio Lower Upper
 77 100
 97 22.7 0.0 0.0#

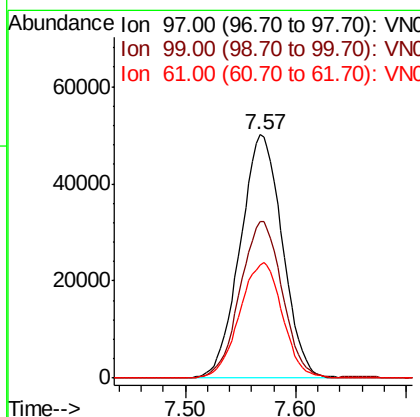
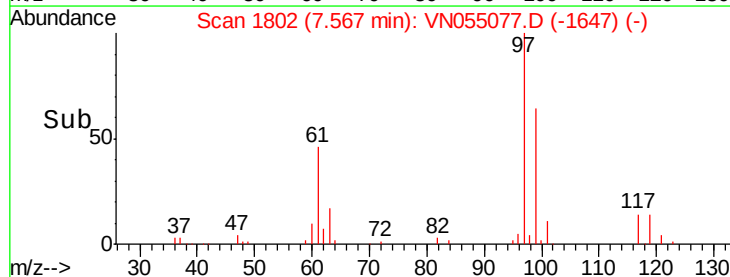
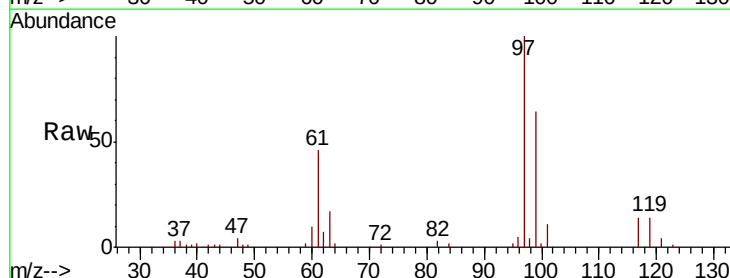
Manual Integrations
 APPROVED

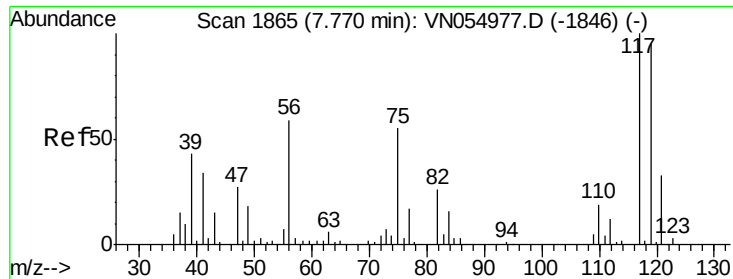
MMDadoda
 4/17/2019 4:23:07 AM



#32
 1,1,1-Trichloroethane
 Concen: 20.285 ug/l
 RT: 7.57 min Scan# 1802
 Delta R.T. -0.00 min
 Lab File: VN055077.D
 Acq: 16 Apr 2019 14:41

Tgt Ion: 97 Resp: 133031
 Ion Ratio Lower Upper
 97 100
 99 64.2 51.2 76.8
 61 48.1 40.6 60.8





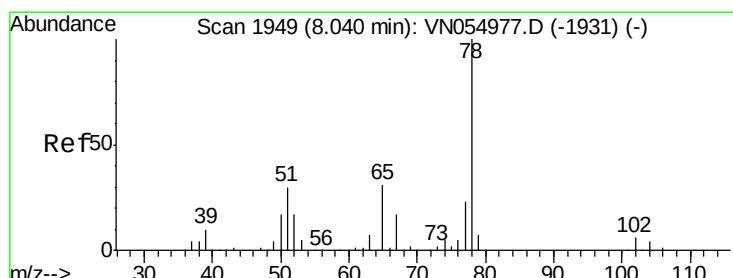
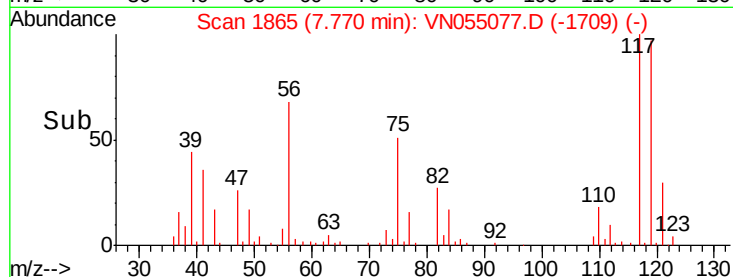
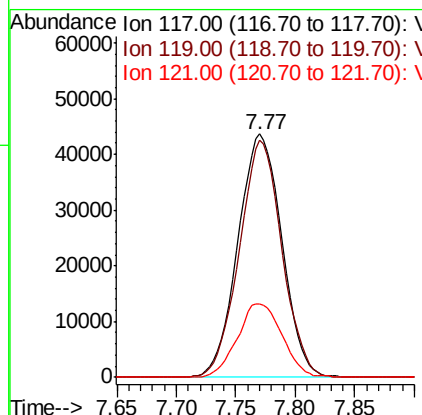
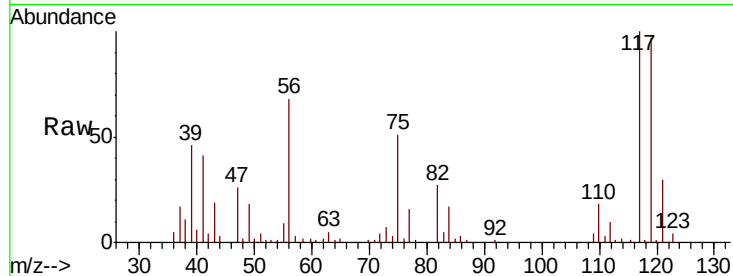
#33
Carbon Tetrachloride
Concen: 19.641 ug/l
RT: 7.77 min Scan# 1865
Delta R.T. 0.00 min
Lab File: VN055077.D
Acq: 16 Apr 2019 14:41

Instrument :
MSVOA_N
ClientSampleId :
VN0416WBSD01

Tot Ion	Ratio	Lower	Upper
117	100		
119	97.4	76.1	114.1
121	30.2	26.2	39.4

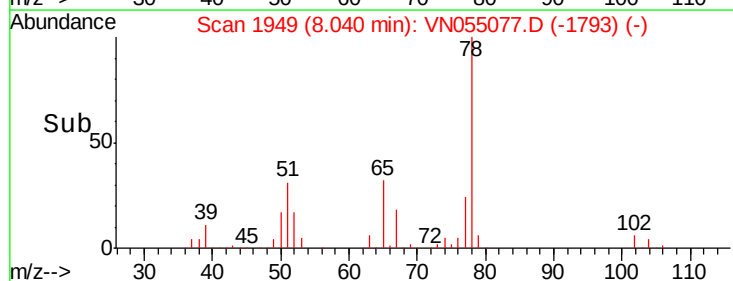
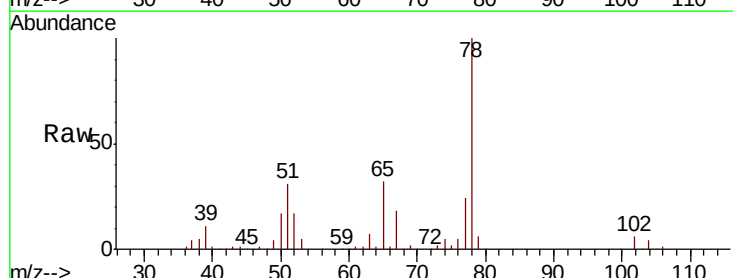
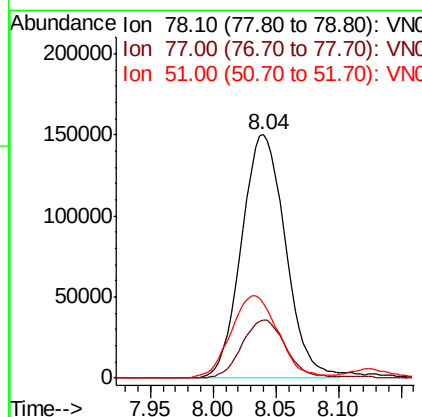
Manual Integrations
APPROVED

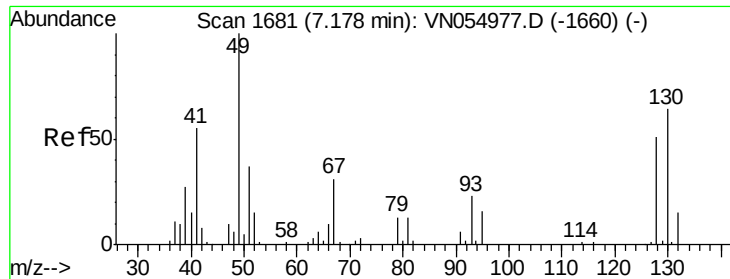
MMDadoda
4/17/2019 4:23:07 AM



#34
Benzene
Concen: 19.957 ug/l
RT: 8.04 min Scan# 1949
Delta R.T. 0.00 min
Lab File: VN055077.D
Acq: 16 Apr 2019 14:41

Tgt Ion	Ratio	Lower	Upper
78	100		
77	24.1	18.2	27.4
51	30.5	23.7	35.5





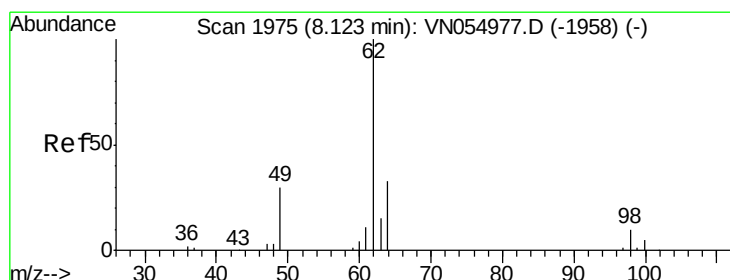
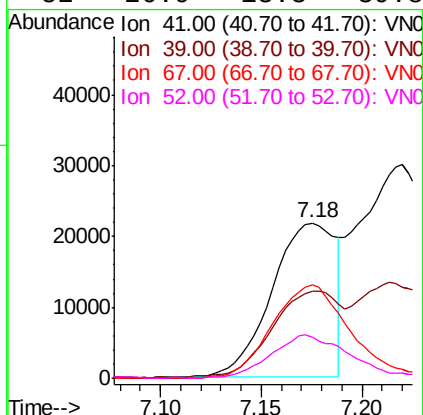
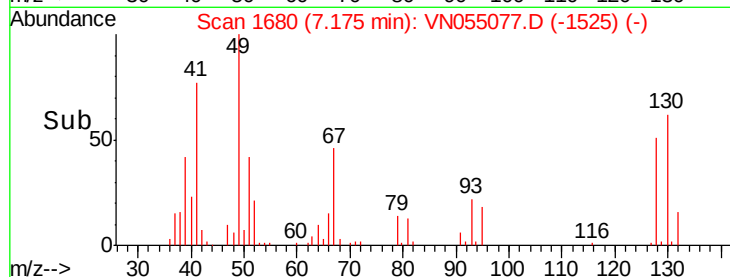
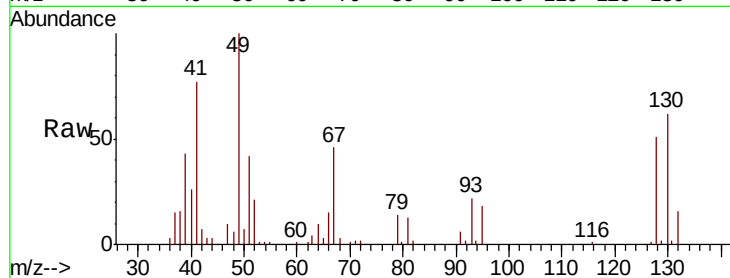
#35
Methacrylonitrile
Concen: 19.610 ug/l
RT: 7.18 min Scan# 1680
Delta R.T. -0.00 min
Lab File: VN055077.D
Acq: 16 Apr 2019 14:41

Instrument :
MSVOA_N
ClientSampleId :
VN0416WBSD01

Tot Ion	41	Resp	47603
Ion	Ratio	Lower	Upper
41	100		
39	55.4	24.2	72.6
67	60.6	28.1	84.2
52	26.9	13.3	39.8

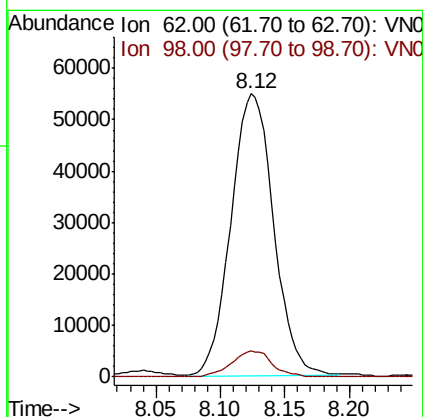
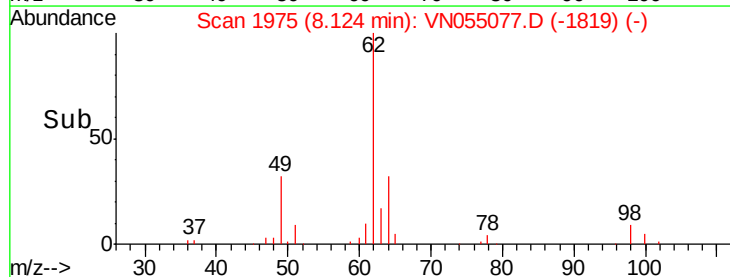
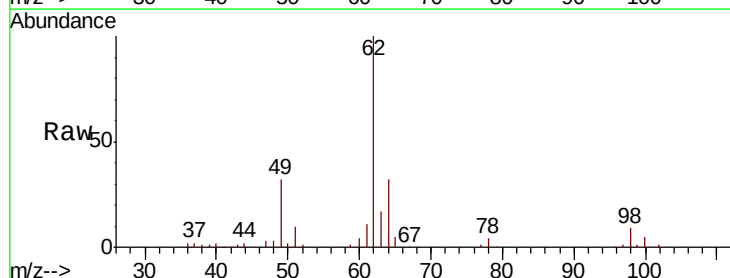
Manual Integrations
APPROVED

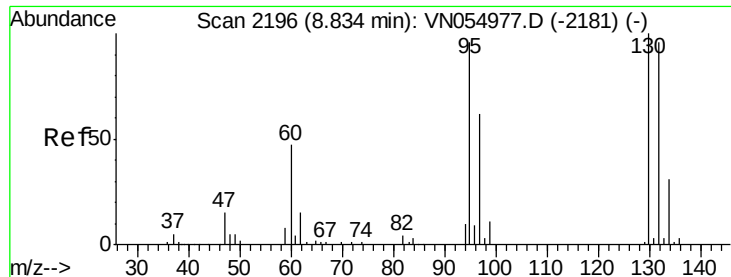
MMDadoda
4/17/2019 4:23:07 AM



#36
1,2-Dichloroethane
Concen: 20.027 ug/l
RT: 8.12 min Scan# 1975
Delta R.T. 0.00 min
Lab File: VN055077.D
Acq: 16 Apr 2019 14:41

Tgt Ion	62	Resp	125854
Ion	Ratio	Lower	Upper
62	100		
98	8.7	6.9	10.3





#37

Trichloroethene

Concen: 19.410 ug/l

RT: 8.83 min Scan# 2196

Delta R.T. 0.00 min

Lab File: VN055077.D

Acq: 16 Apr 2019 14:41

Instrument :

MSVOA_N

ClientSampleId :

VN0416WBSD01

Tot Ion:130 Resp: 90982

Ion Ratio Lower Upper

130 100

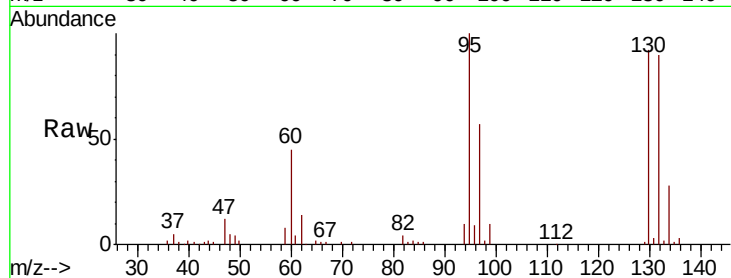
95 107.7 76.6 115.0

Manual Integrations

APPROVED

MMDadoda

4/17/2019 4:23:07 AM



Abundance Ion 129.90 (129.60 to 130.60): V

Ion 94.90 (94.60 to 95.60): VN

50000

40000

30000

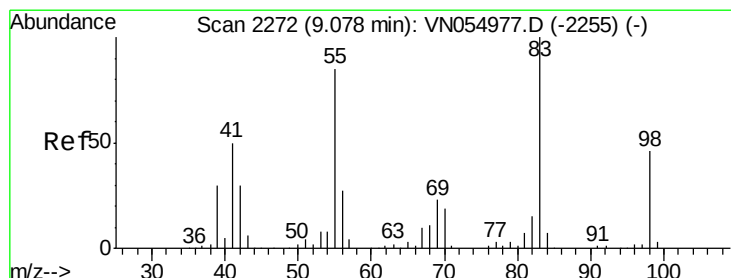
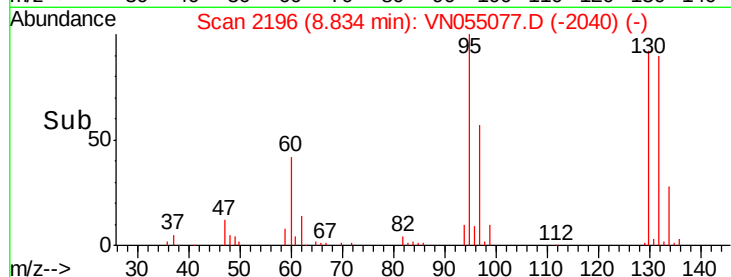
20000

10000

0

8.75 8.80 8.85 8.90

Time-->



#38

Methylcyclohexane

Concen: 17.984 ug/l

RT: 9.08 min Scan# 2272

Delta R.T. 0.00 min

Lab File: VN055077.D

Acq: 16 Apr 2019 14:41

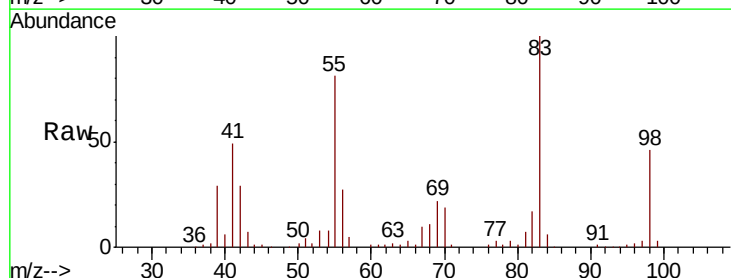
Tgt Ion: 83 Resp: 129402

Ion Ratio Lower Upper

83 100

55 84.6 41.9 125.6

98 44.2 22.4 67.0



Abundance Ion 83.00 (82.70 to 83.70): VN

Ion 55.00 (54.70 to 55.70): VN

Ion 98.00 (97.70 to 98.70): VN

80000

60000

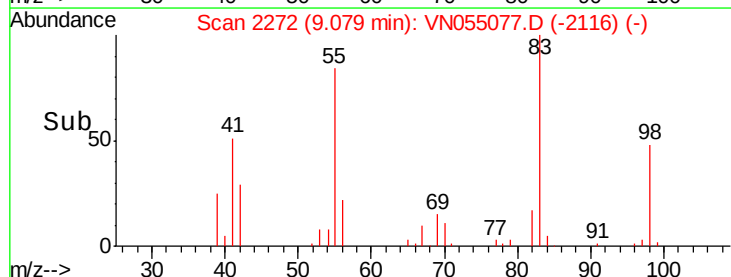
40000

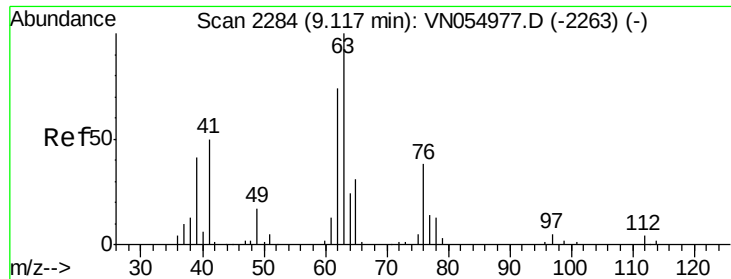
20000

0

9.00 9.05 9.10 9.15

Time-->





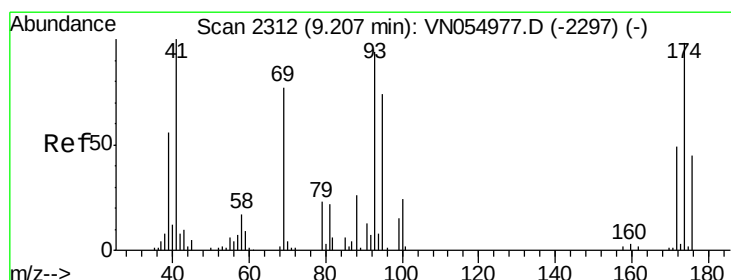
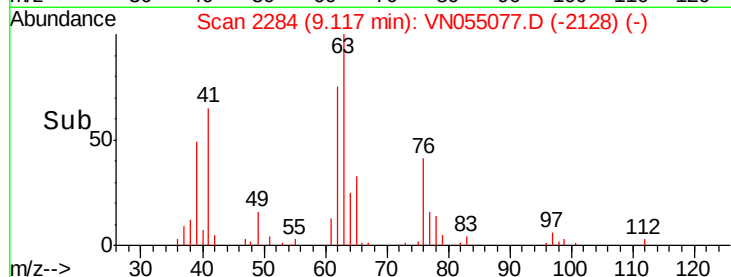
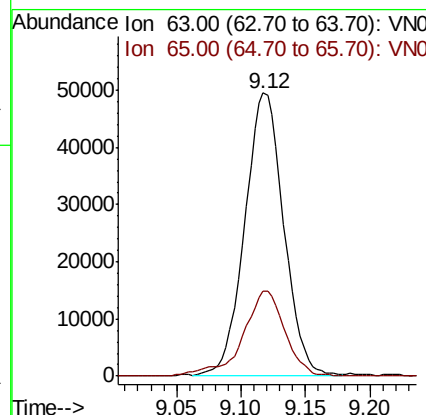
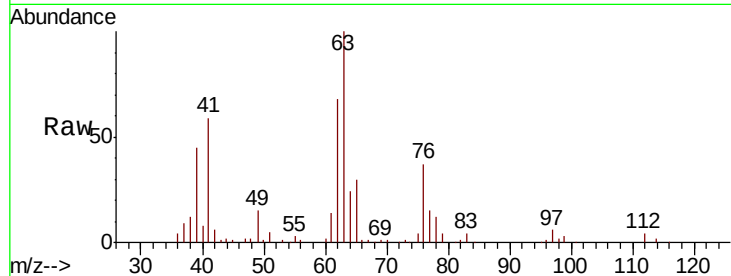
#39
 1,2-Dichloropropane
 Concen: 20.572 ug/l
 RT: 9.12 min Scan# 2284
 Delta R.T. 0.00 min
 Lab File: VN055077.D
 Acq: 16 Apr 2019 14:41

Instrument :
 MSVOA_N
 ClientSampleId :
 VN0416WBSD01

Tot Ion	63	Resp	104448
Ion Ratio	Lower	Upper	
63	100		
65	29.7	24.8	37.2

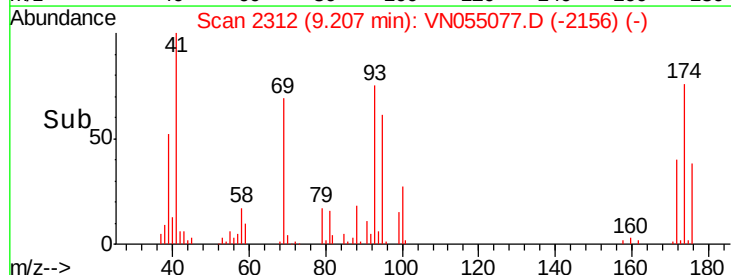
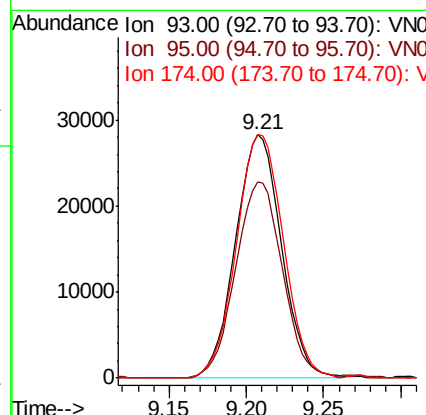
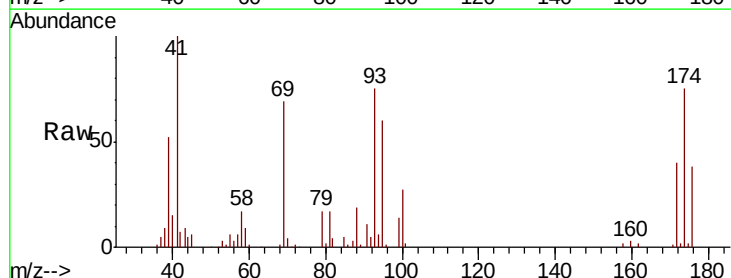
Manual Integrations
 APPROVED

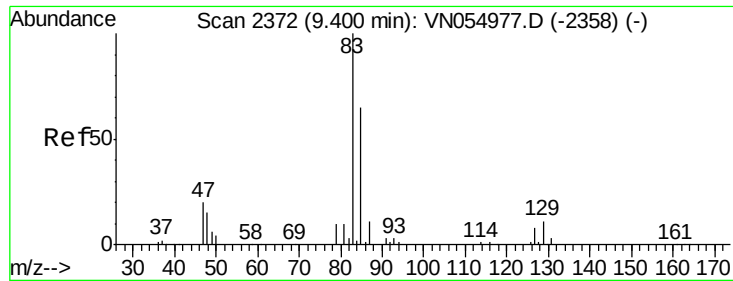
MMDadoda
 4/17/2019 4:23:07 AM



#40
 Dibromomethane
 Concen: 20.338 ug/l
 RT: 9.21 min Scan# 2312
 Delta R.T. 0.00 min
 Lab File: VN055077.D
 Acq: 16 Apr 2019 14:41

Tgt Ion	93	Resp	58366
Ion Ratio	Lower	Upper	
93	100		
95	82.2	0.0	160.8
174	102.6	0.0	206.4





#41

Bromodichloromethane

Concen: 19.537 ug/l

RT: 9.40 min Scan# 2372

Delta R.T. 0.00 min

Lab File: VN055077.D

Acq: 16 Apr 2019 14:41

Instrument :

MSVOA_N

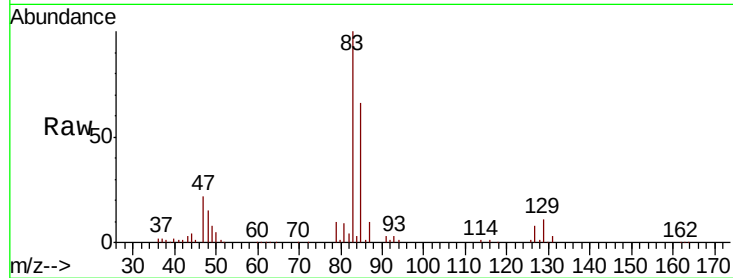
ClientSampleId :

VN0416WBSD01

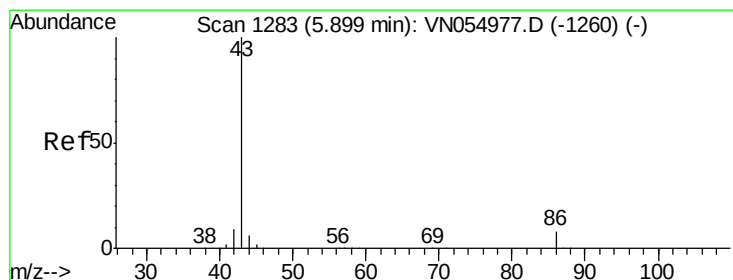
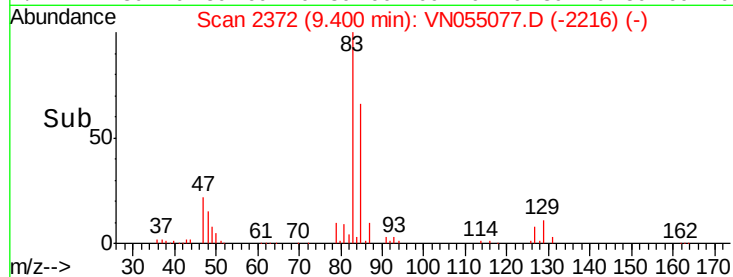
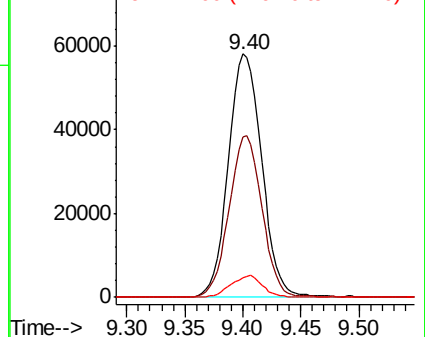
Tot Ion:	83	Resp:	115713
Ion Ratio	Lower	Upper	
83	100		
85	66.0	52.0	78.0
127	8.2	7.2	10.8

Manual Integrations
APPROVED

MMDadoda
4/17/2019 4:23:07 AM



Abundance Ion 83.00 (82.70 to 83.70): VN055077.D (-1127) (-)



#42

Vinyl Acetate

Concen: 103.256 ug/l

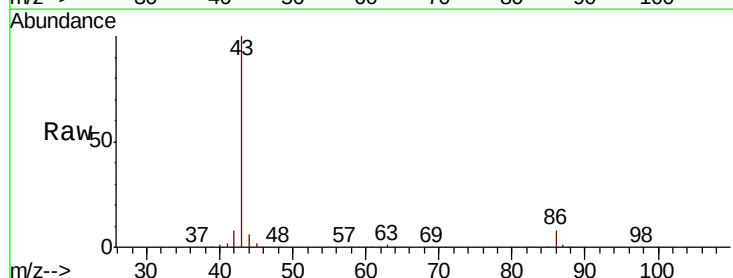
RT: 5.90 min Scan# 1283

Delta R.T. 0.00 min

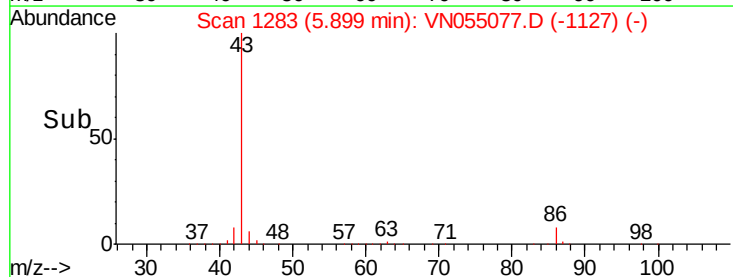
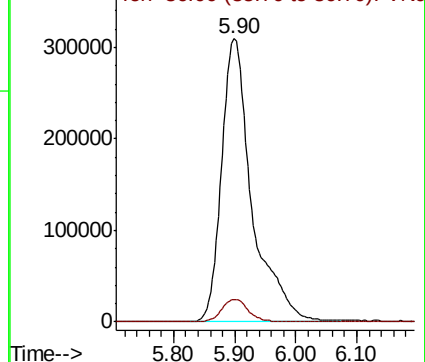
Lab File: VN055077.D

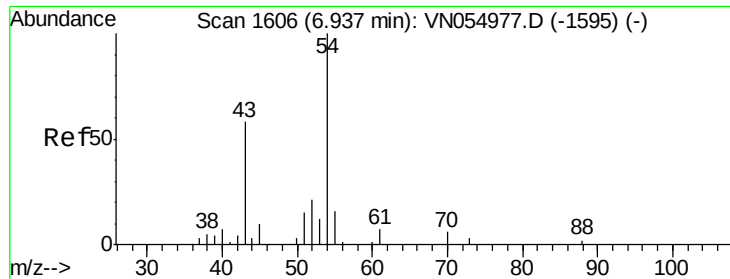
Acq: 16 Apr 2019 14:41

Tgt Ion:	43	Resp:	1075134
Ion Ratio	Lower	Upper	
43	100		
86	7.0	5.7	8.5



Abundance Ion 43.00 (42.70 to 43.70): VN055077.D (-1127) (-)





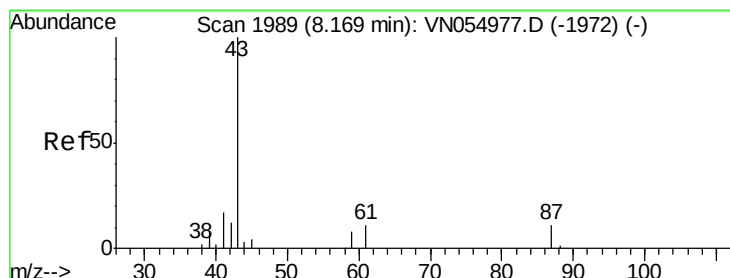
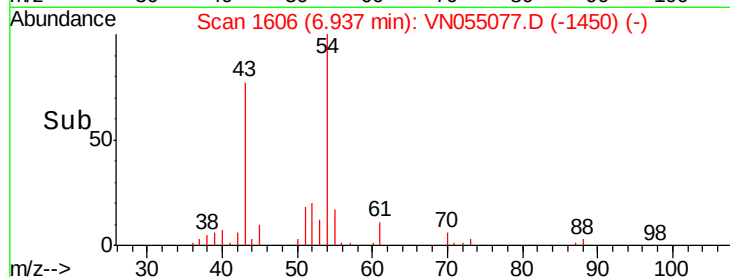
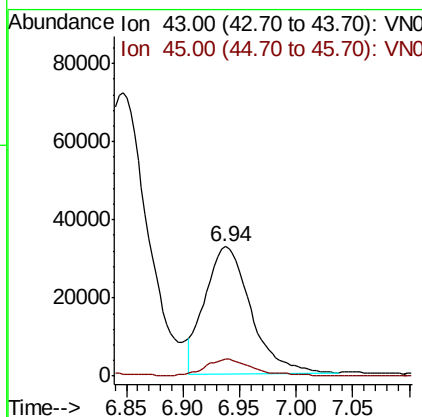
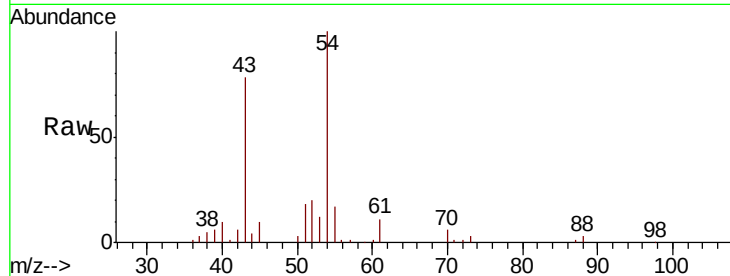
#43
Ethyl Acetate
Concen: 22.095 ug/l
RT: 6.94 min Scan# 1606
Delta R.T. 0.00 min
Lab File: VN055077.D
Acq: 16 Apr 2019 14:41

Instrument :
MSVOA_N
ClientSampleId :
VN0416WBSD01

Tot Ion: 43 Resp: 92709
Ion Ratio Lower Upper
43 100
45 13.2 10.6 15.8

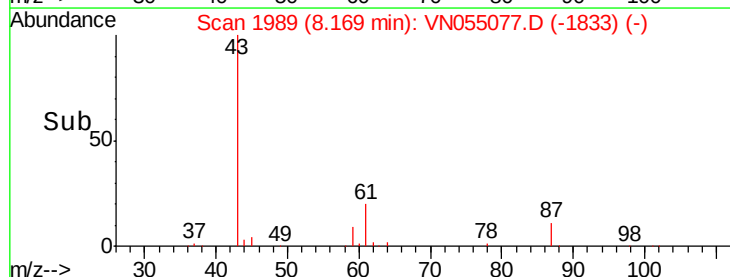
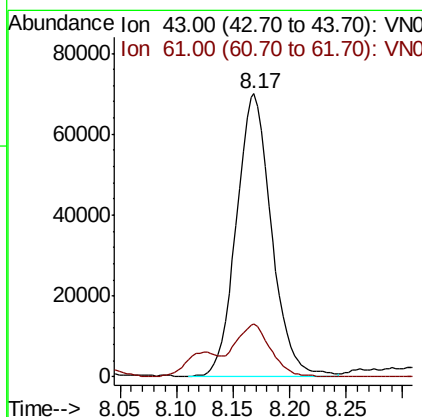
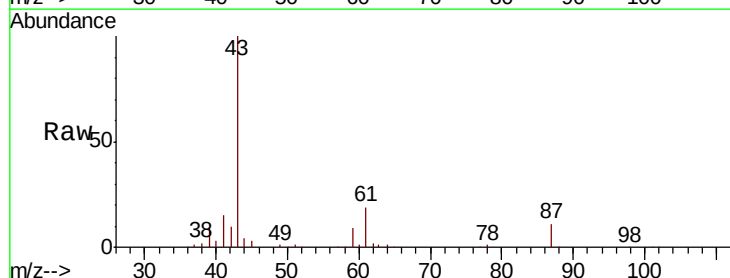
Manual Integrations
APPROVED

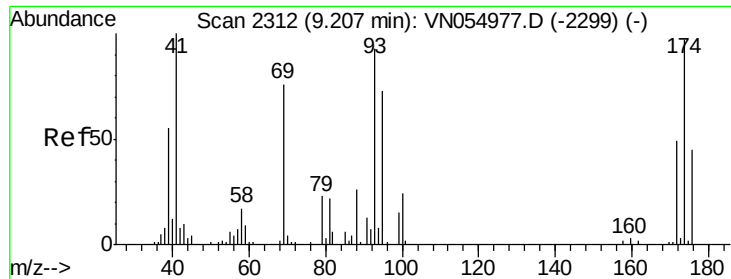
MMDadoda
4/17/2019 4:23:07 AM



#44
Isopropyl Acetate
Concen: 21.183 ug/l
RT: 8.17 min Scan# 1989
Delta R.T. 0.00 min
Lab File: VN055077.D
Acq: 16 Apr 2019 14:41

Tgt Ion: 43 Resp: 150625
Ion Ratio Lower Upper
43 100
61 19.2 14.8 22.2





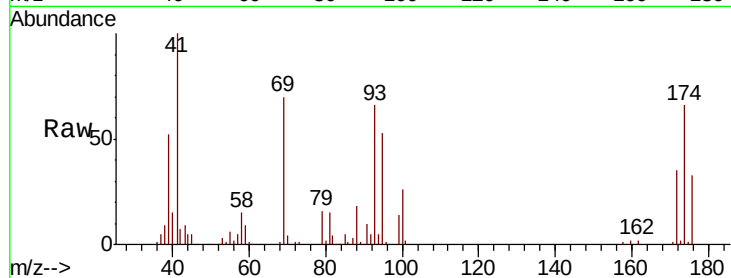
#45
1,4-Dioxane
Concen: 416.868 ug/l
RT: 9.20 min Scan# 2311
Delta R.T. -0.00 min
Lab File: VN055077.D
Acq: 16 Apr 2019 14:41

Instrument :
MSVOA_N
ClientSampleId :
VN0416WBSD01

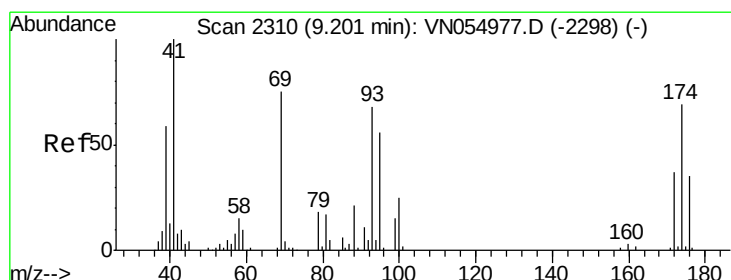
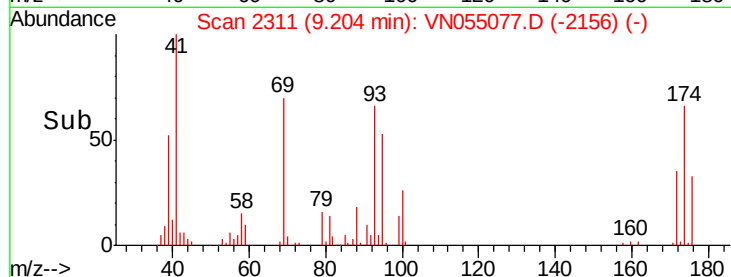
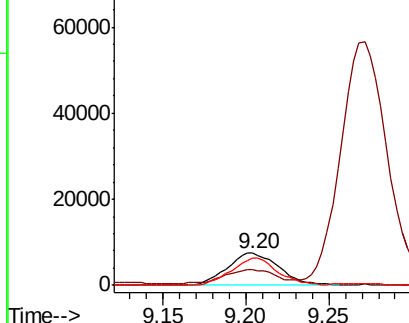
Tot Ion	88	Resp	16422
Ion Ratio	Lower	Upper	
88	100		
43	41.4	34.5	51.7
58	74.8	60.3	90.5

Manual Integrations
APPROVED

MMDadoda
4/17/2019 4:23:07 AM



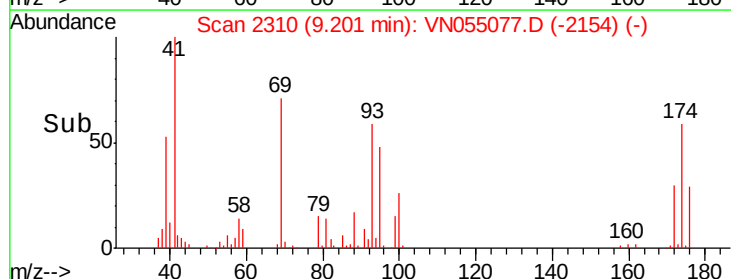
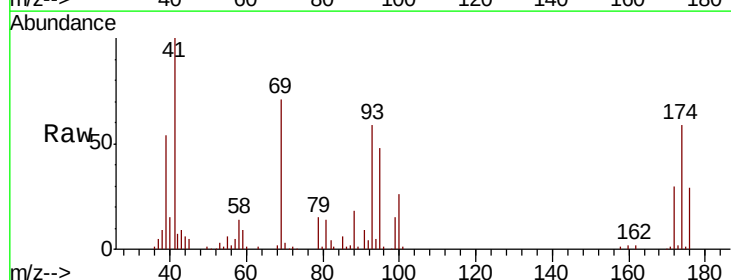
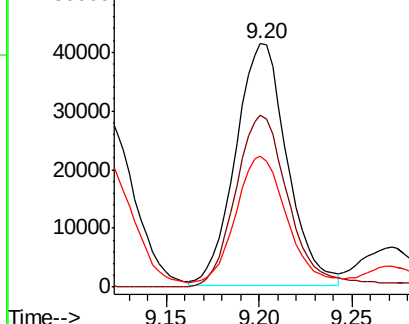
Abundance Ion 88.00 (87.70 to 88.70): VN0
Ion 43.00 (42.70 to 43.70): VN0
Ion 58.00 (57.70 to 58.70): VN0

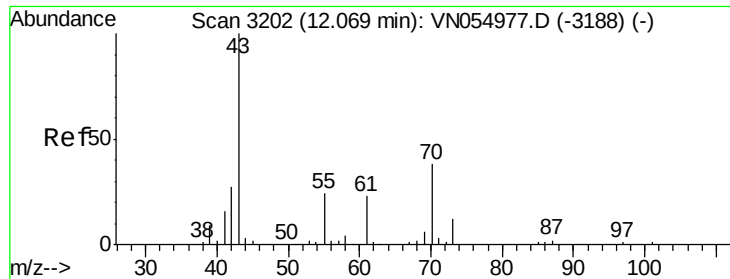


#46
Methyl methacrylate
Concen: 21.649 ug/l
RT: 9.20 min Scan# 2310
Delta R.T. 0.00 min
Lab File: VN055077.D
Acq: 16 Apr 2019 14:41

Tgt Ion	41	Resp	79634
Ion Ratio	Lower	Upper	
41	100		
69	72.4	37.3	111.9
39	53.3	29.4	88.2

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





#47

n-amvl Acetate

Concen: 21.544 ug/l

RT: 12.07 min Scan# 3202

Delta R.T. 0.00 min

Lab File: VN055077.D

Acq: 16 Apr 2019 14:41

Instrument :

MSVOA_N

ClientSampled :

VN0416WBSD01

Tot Ion: 43 Resp: 112833

Ion Ratio Lower Upper

43 100

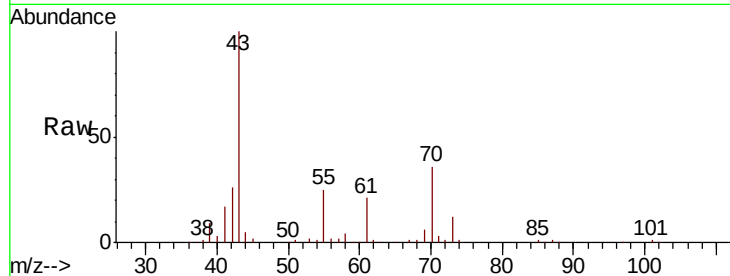
55 24.4 19.8 29.6

Manual Integrations

APPROVED

MMDadoda

4/17/2019 4:23:07 AM



Abundance Ion 43.00 (42.70 to 43.70): VN0

Ion 55.00 (54.70 to 55.70): VN0

12.07

80000

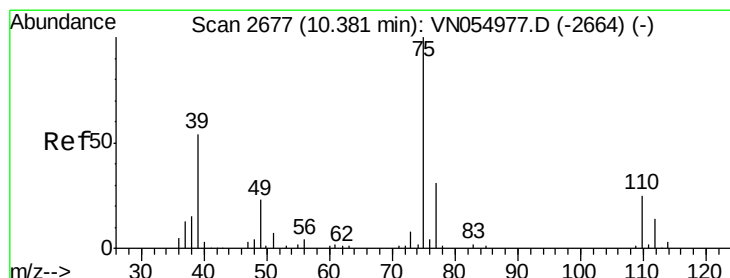
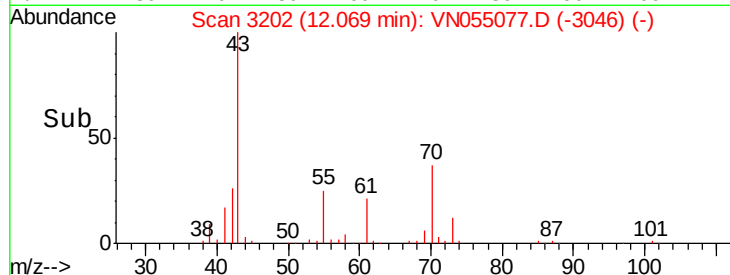
60000

40000

20000

0

Time-->



#48

t-1,3-Dichloropropene

Concen: 19.184 ug/l

RT: 10.38 min Scan# 2677

Delta R.T. 0.00 min

Lab File: VN055077.D

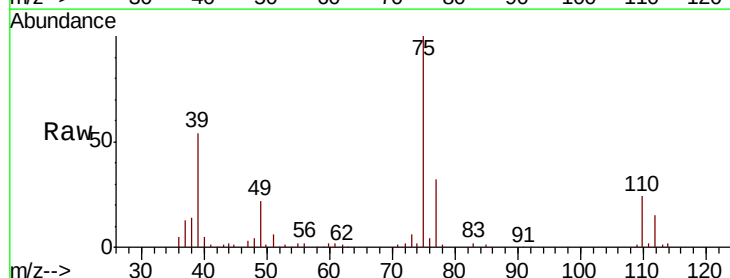
Acq: 16 Apr 2019 14:41

Tgt Ion: 75 Resp: 104340

Ion Ratio Lower Upper

75 100

77 30.9 24.6 37.0



Abundance Ion 75.00 (74.70 to 75.70): VN0

Ion 77.00 (76.70 to 77.70): VN0

10.38

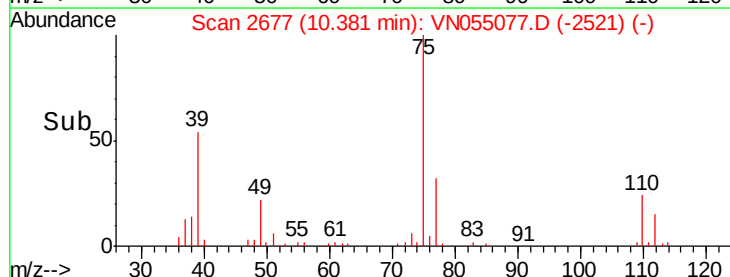
60000

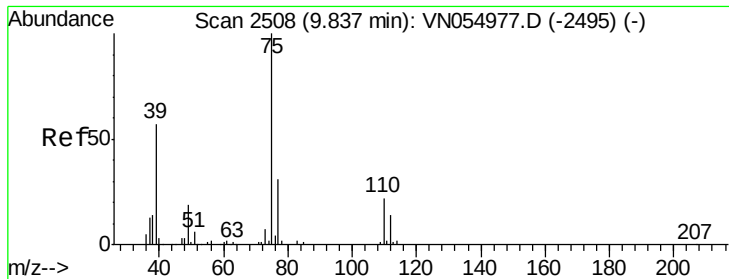
40000

20000

0

Time-->





#49

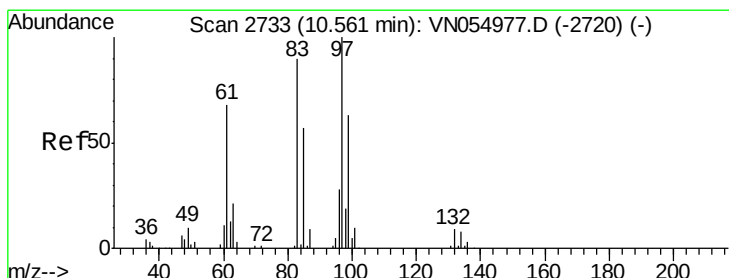
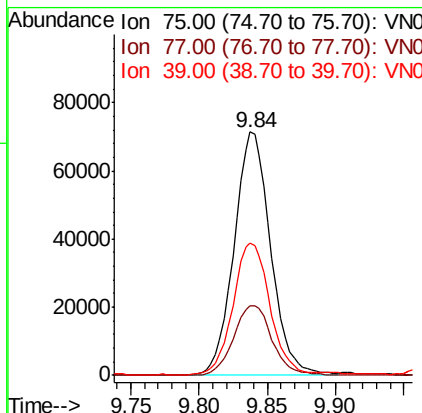
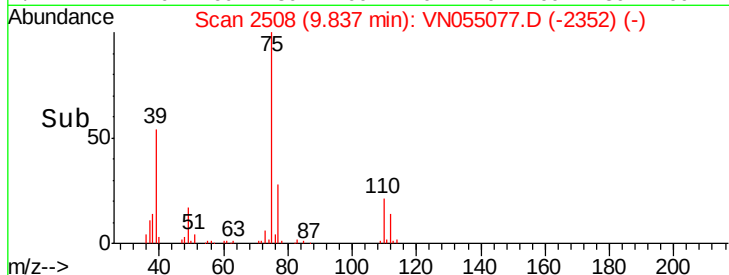
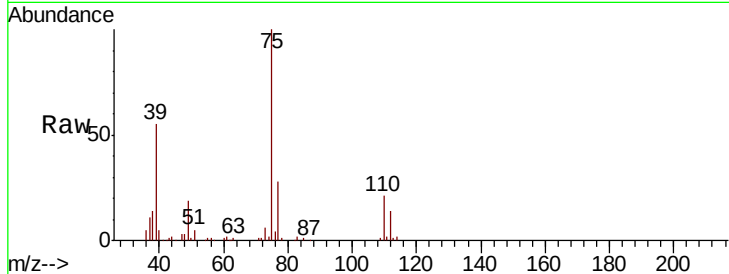
cis-1,3-Dichloropropene
 Concen: 19.789 ug/l
 RT: 9.84 min Scan# 2508
 Delta R.T. 0.00 min
 Lab File: VN055077.D
 Acq: 16 Apr 2019 14:41

Instrument :
 MSVOA_N
 ClientSampleId :
 VN0416WBSD01

Tot Ion	Ratio	Lower	Upper
75	100		
77	28.3	24.7	37.1
39	54.1	45.3	67.9

Manual Integrations
 APPROVED

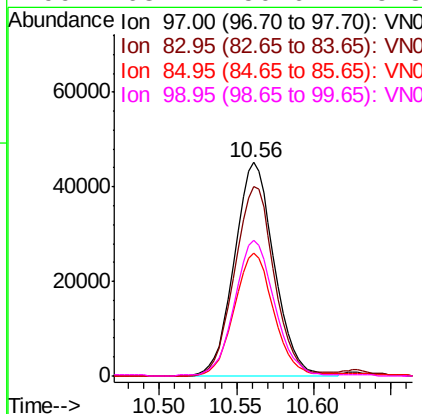
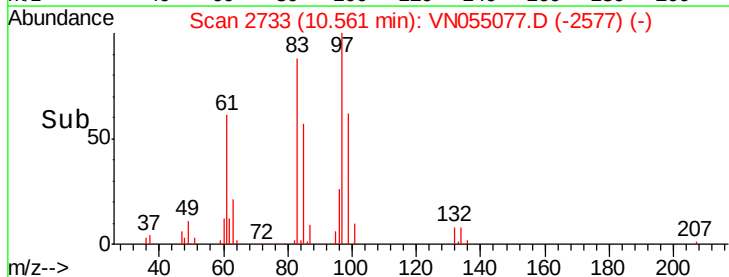
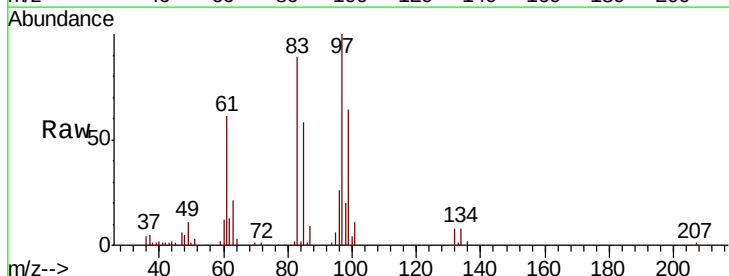
MMDadoda
 4/17/2019 4:23:07 AM

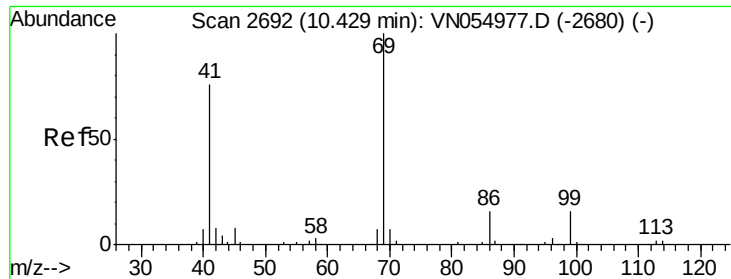


#50

1,1,2-Trichloroethane
 Concen: 20.806 ug/l
 RT: 10.56 min Scan# 2733
 Delta R.T. 0.00 min
 Lab File: VN055077.D
 Acq: 16 Apr 2019 14:41

Tgt Ion	Ratio	Lower	Upper
97	100		
83	88.8	72.1	108.1
85	57.6	45.4	68.0
99	63.4	50.6	75.8





#51

Ethyl methacrylate

Concen: 20.148 ug/l

RT: 10.43 min Scan# 2692

Delta R.T. 0.00 min

Lab File: VN055077.D

Acq: 16 Apr 2019 14:41

Instrument :

MSVOA_N

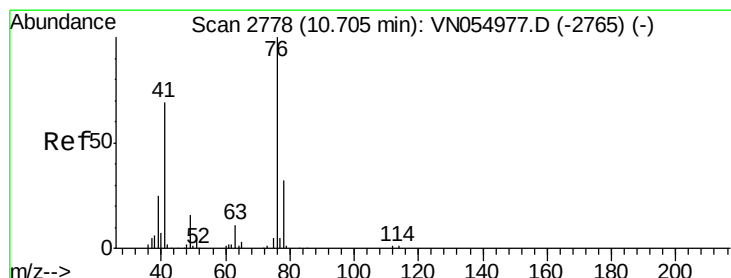
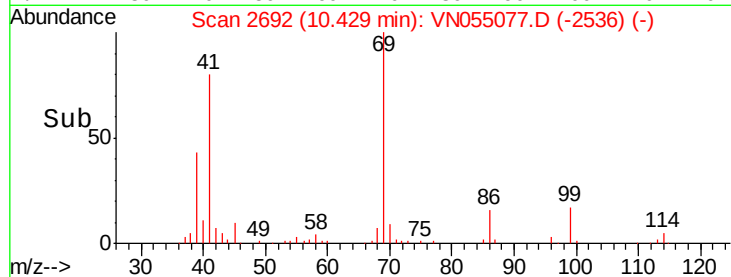
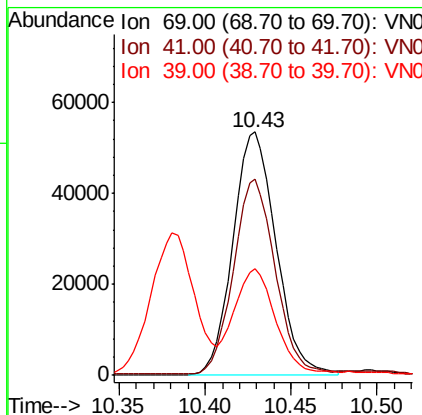
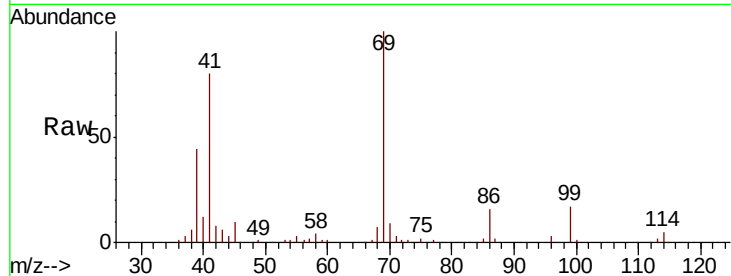
ClientSampleId :

VN0416WBSD01

Tot Ion:	69	Resp:	93613
Ion Ratio	Lower	Upper	
69	100		
41	79.9	37.9	113.7
39	42.3	19.8	59.4

Manual Integrations
APPROVED

MMDadoda
4/17/2019 4:23:07 AM



#52

1,3-Dichloropropane

Concen: 20.405 ug/l

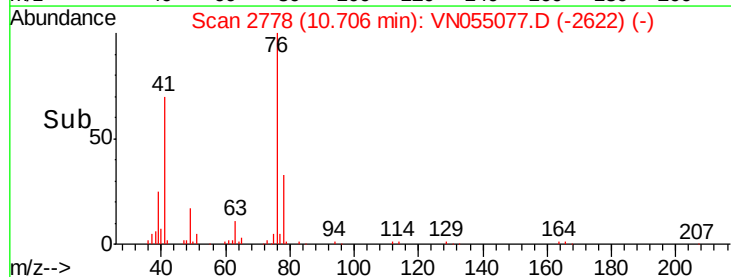
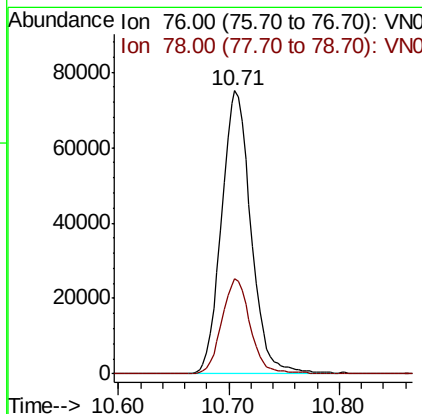
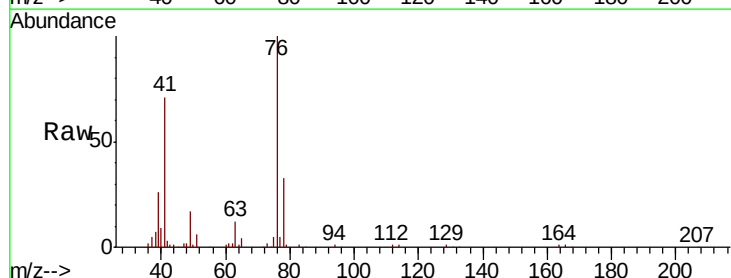
RT: 10.71 min Scan# 2778

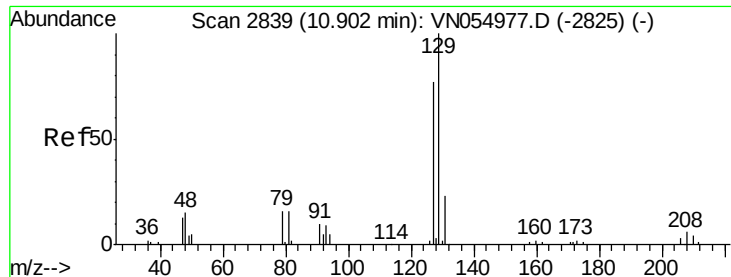
Delta R.T. 0.00 min

Lab File: VN055077.D

Acq: 16 Apr 2019 14:41

Tgt Ion:	76	Resp:	139364
Ion Ratio	Lower	Upper	
76	100		
78	32.2	0.0	64.4





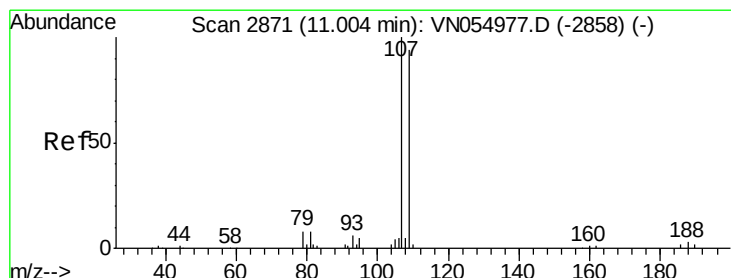
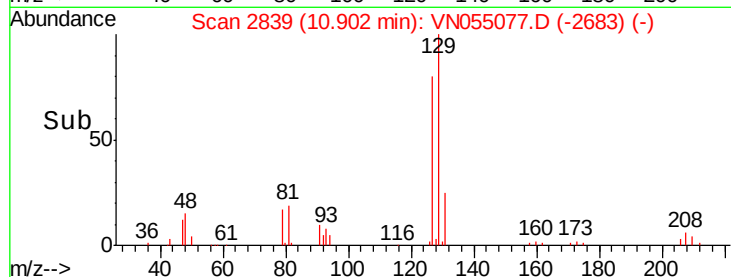
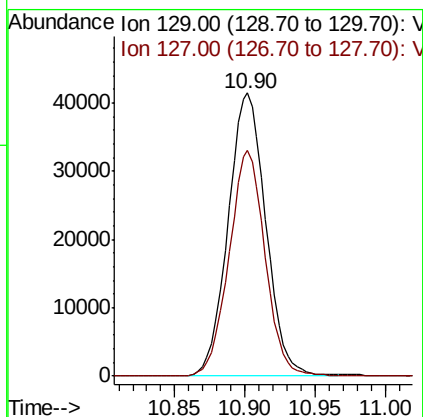
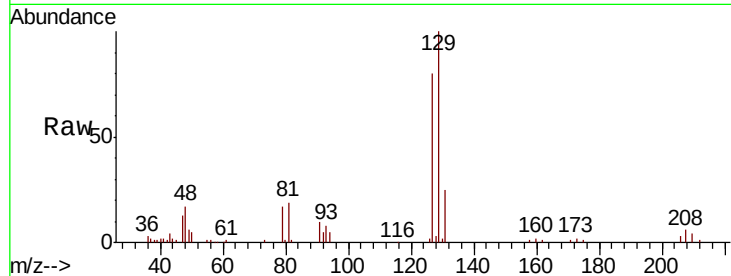
#53
 Dibromochloromethane
 Concen: 19.318 ug/l
 RT: 10.90 min Scan# 2839
 Delta R.T. 0.00 min
 Lab File: VN055077.D
 Acq: 16 Apr 2019 14:41

Instrument :
 MSVOA_N
 ClientSampleId :
 VN0416WBSD01

Tot Ion:129 Resp: 77562
 Ion Ratio Lower Upper
 129 100
 127 76.1 37.8 113.3

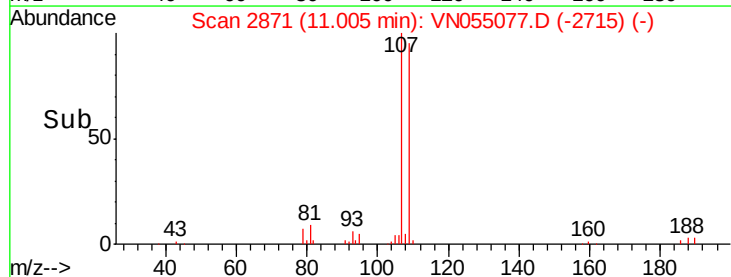
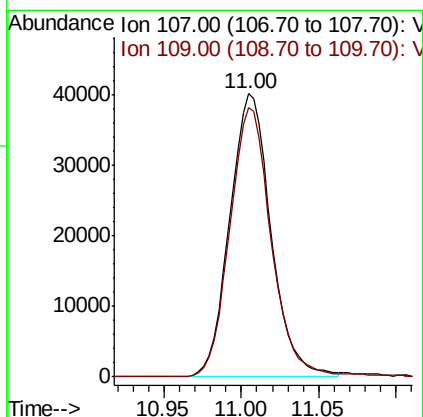
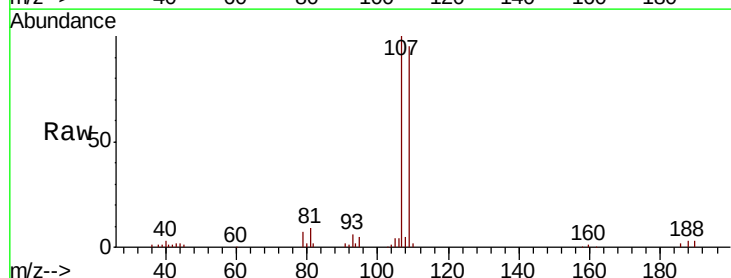
Manual Integrations
 APPROVED

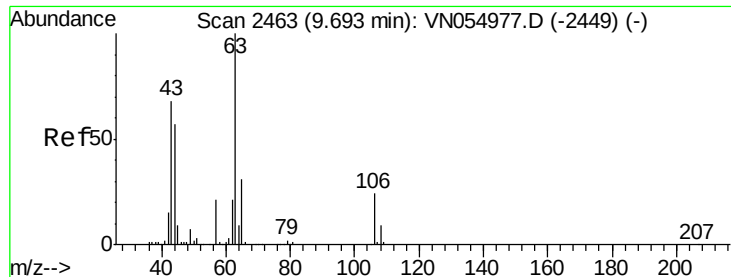
MMDadoda
 4/17/2019 4:23:07 AM



#54
 1,2-Dibromoethane
 Concen: 20.274 ug/l
 RT: 11.00 min Scan# 2871
 Delta R.T. 0.00 min
 Lab File: VN055077.D
 Acq: 16 Apr 2019 14:41

Tgt Ion:107 Resp: 74186
 Ion Ratio Lower Upper
 107 100
 109 94.9 76.2 114.2





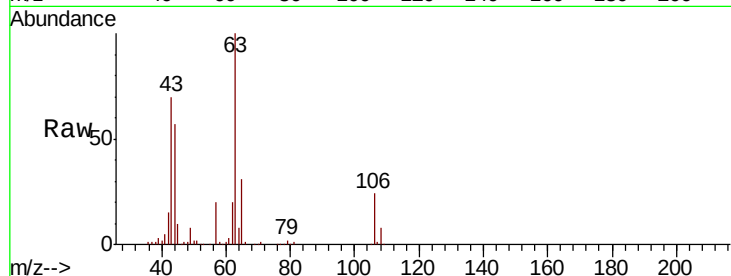
#55
2-Chloroethyl vinyl ether
Concen: 93.144 ug/l
RT: 9.70 min Scan# 2464
Delta R.T. 0.00 min
Lab File: VN055077.D
Acq: 16 Apr 2019 14:41

Instrument :
MSVOA_N
ClientSampleId :
VN0416WBSD01

Tot Ion	Ratio	Lower	Upper
63	100		
65	31.0	25.4	38.0
106	24.3	19.8	29.6

Manual Integrations
APPROVED

MMDadoda
4/17/2019 4:23:07 AM

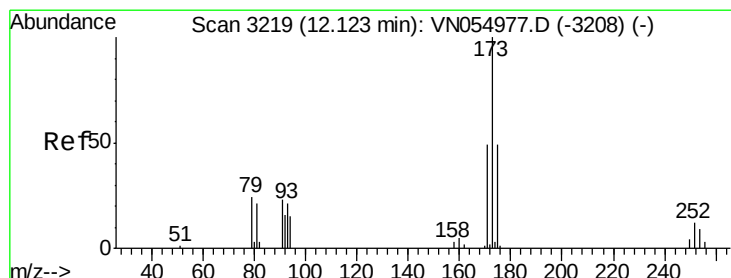
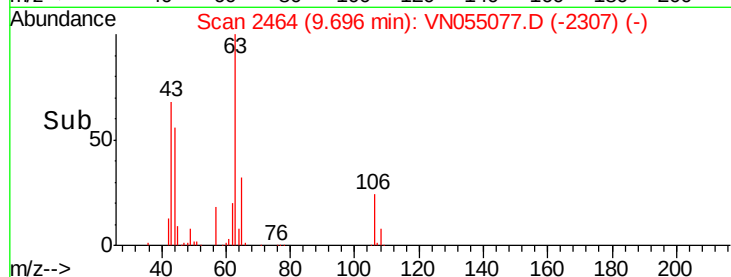
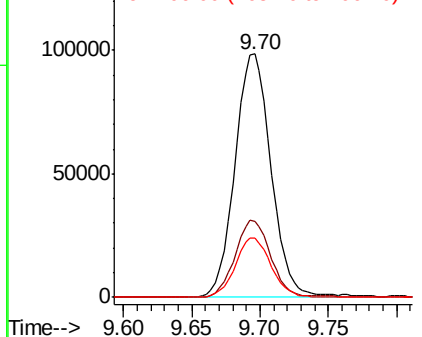


Abundance

Ion 63.00 (62.70 to 63.70): VN054977.D (-2449) (-)

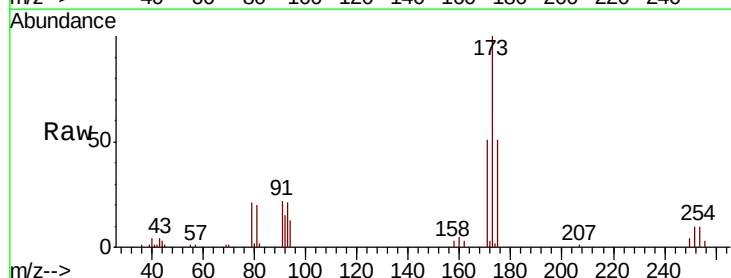
Ion 65.00 (64.70 to 65.70): VN054977.D (-2449) (-)

Ion 106.00 (105.70 to 106.70): VN054977.D (-2449) (-)



#56
Bromoform
Concen: 18.453 ug/l
RT: 12.13 min Scan# 3220
Delta R.T. 0.00 min
Lab File: VN055077.D
Acq: 16 Apr 2019 14:41

Tgt Ion	Ratio	Lower	Upper
173	100		
175	50.2	38.6	57.8
254	10.6	6.8	10.2

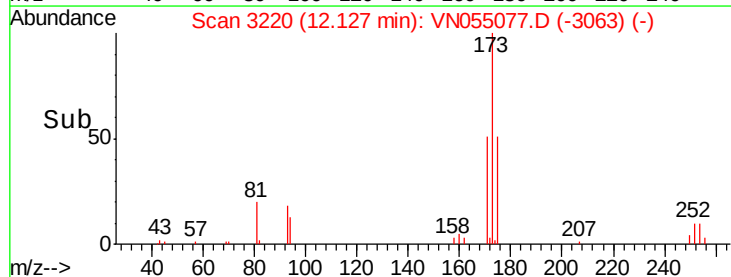
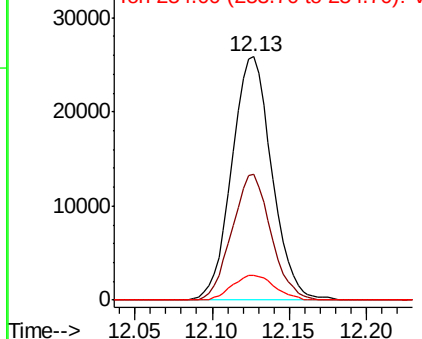


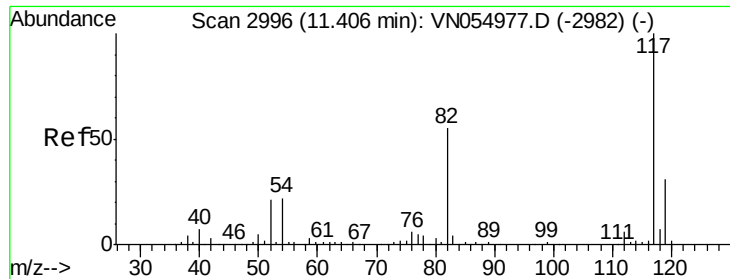
Abundance

Ion 173.00 (172.70 to 173.70): VN054977.D (-3208) (-)

Ion 175.00 (174.70 to 175.70): VN054977.D (-3208) (-)

Ion 254.00 (253.70 to 254.70): VN054977.D (-3208) (-)





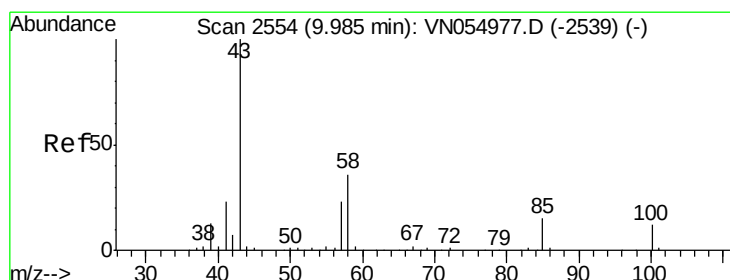
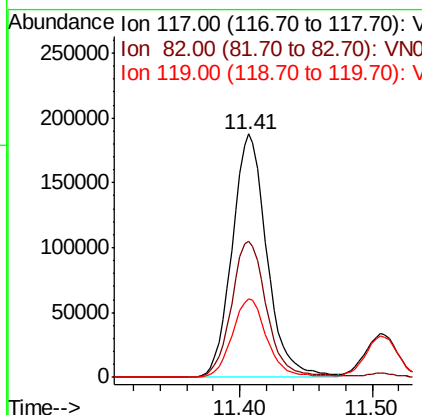
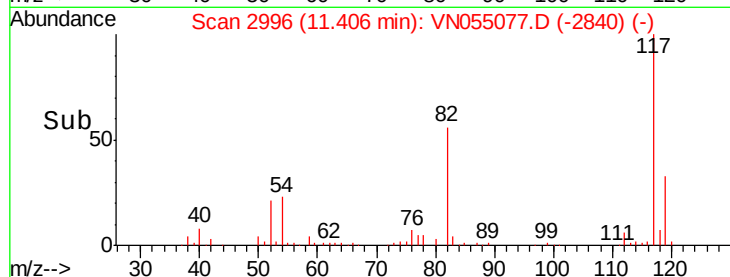
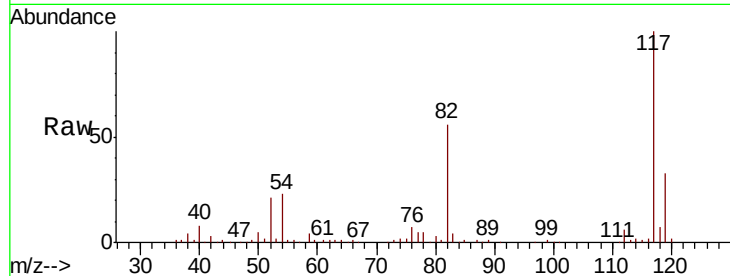
#57
Chlorobenzene-d5
Concen: 30.000 ug/l
RT: 11.41 min Scan# 2996
Delta R.T. 0.00 min
Lab File: VN055077.D
Acq: 16 Apr 2019 14:41

Instrument :
MSVOA_N
ClientSampleId :
VN0416WBSD01

Tot Ion	Ratio	Lower	Upper
117	100		
82	56.9	45.2	67.8
119	32.3	25.4	38.2

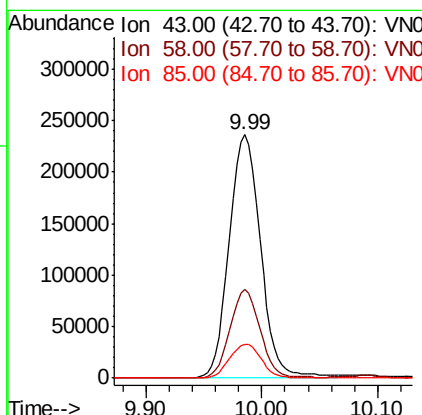
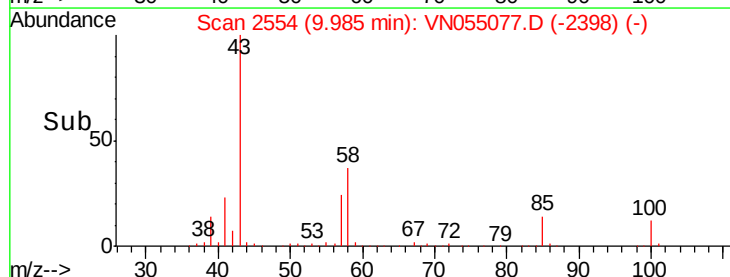
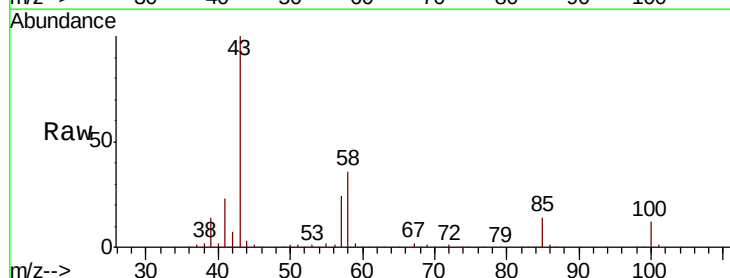
Manual Integrations
APPROVED

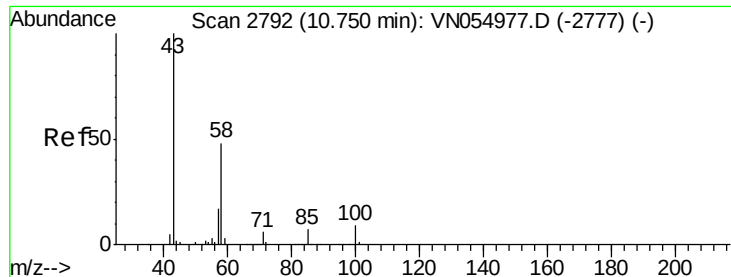
MMDadoda
4/17/2019 4:23:07 AM



#58
4-Methyl-2-Pentanone
Concen: 112.251 ug/l
RT: 9.99 min Scan# 2554
Delta R.T. 0.00 min
Lab File: VN055077.D
Acq: 16 Apr 2019 14:41

Tgt Ion	Ratio	Lower	Upper
43	100		
58	35.1	28.7	43.1
85	14.1	11.8	17.6





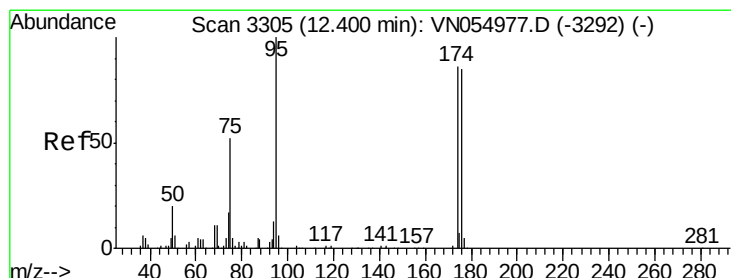
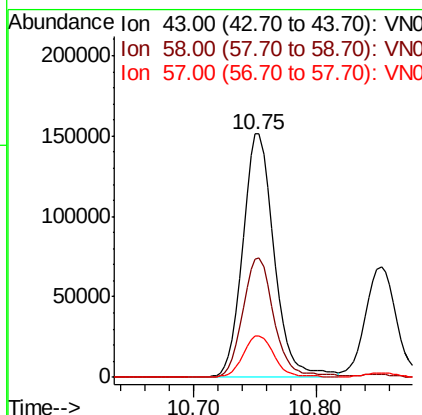
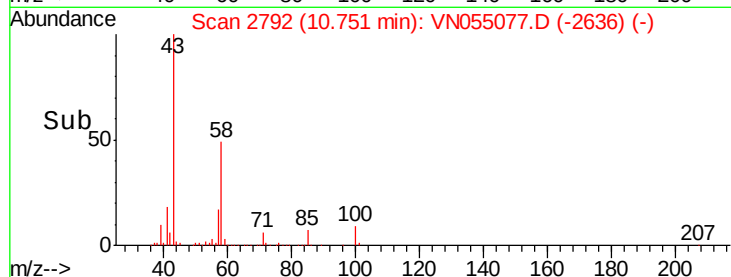
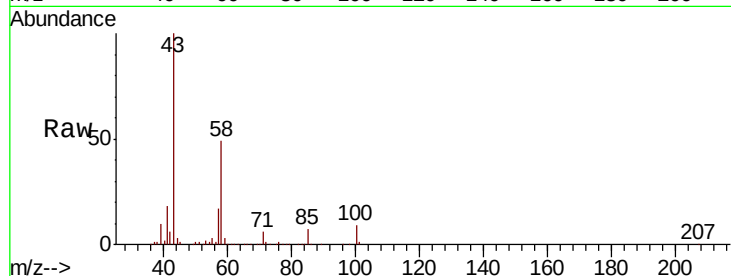
#59
2-Hexanone
Concen: 106.368 ug/l
RT: 10.75 min Scan# 2792
Delta R.T. 0.00 min
Lab File: VN055077.D
Acq: 16 Apr 2019 14:41

Instrument :
MSVOA_N
ClientSampleId :
VN0416WBSD01

Tot Ion	Ratio	Lower	Upper
43	100		
58	49.3	38.8	58.2
57	17.2	13.8	20.6

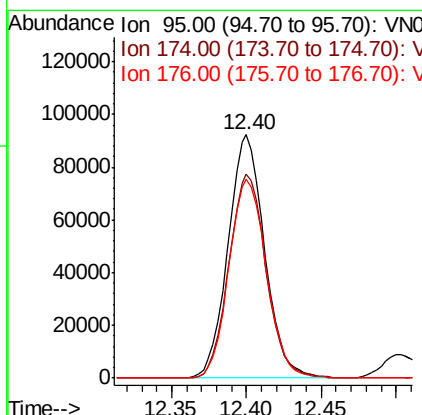
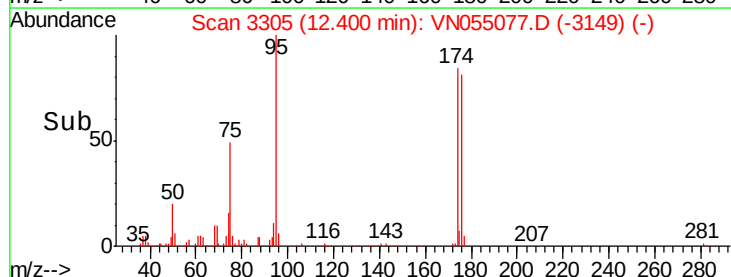
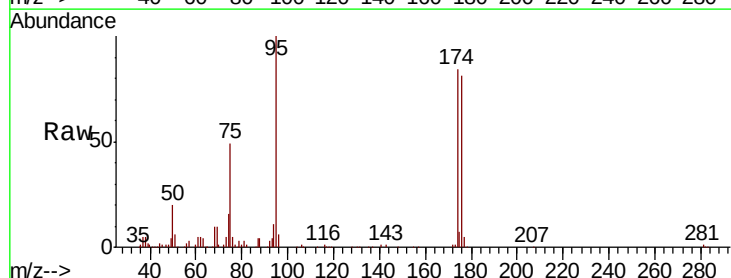
Manual Integrations
APPROVED

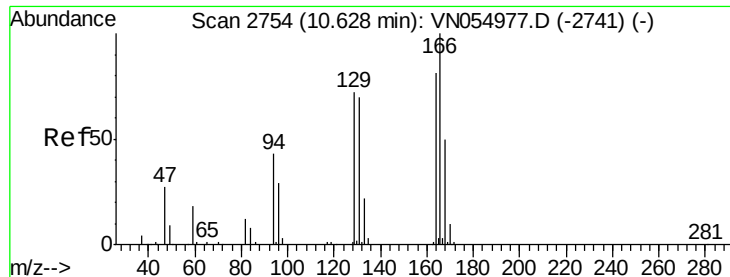
MMDadoda
4/17/2019 4:23:07 AM



#60
4-Bromofluorobenzene
Concen: 106.368 ug/l
RT: 12.40 min Scan# 3305
Delta R.T. 0.00 min
Lab File: VN055077.D
Acq: 16 Apr 2019 14:41

Tgt Ion	Ratio	Lower	Upper
95	100		
174	85.4	69.4	104.2
176	83.8	67.4	101.2





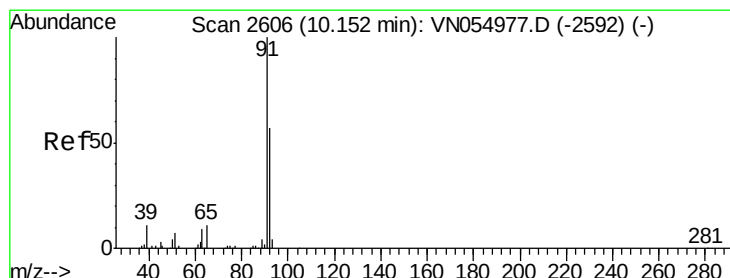
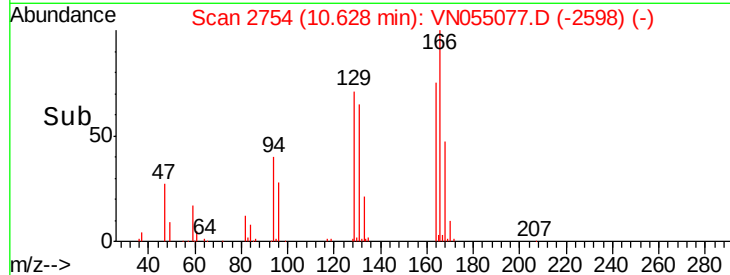
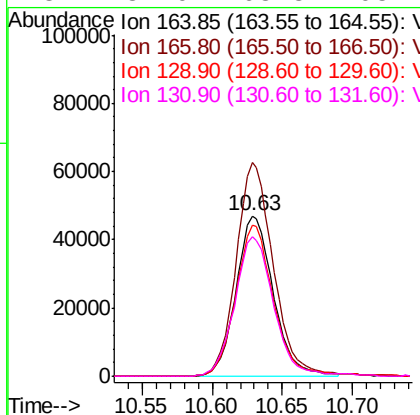
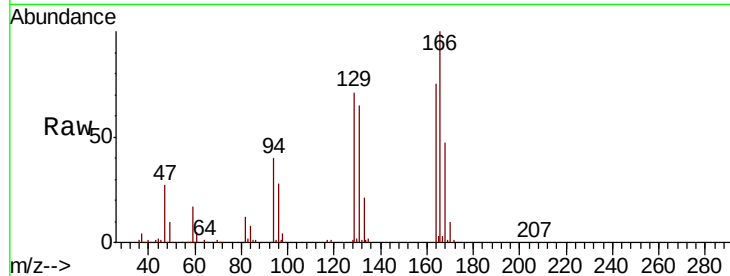
#61
Tetrachloroethene
Concen: 19.555 ug/l
RT: 10.63 min Scan# 2754
Delta R.T. 0.00 min
Lab File: VN055077.D
Acq: 16 Apr 2019 14:41

Instrument :
MSVOA_N
ClientSampleId :
VN0416WBSD01

Tot Ion	Ratio	Lower	Upper
164	100		
166	133.2	99.0	148.4
129	94.3	71.4	107.0
131	87.0	68.8	103.2

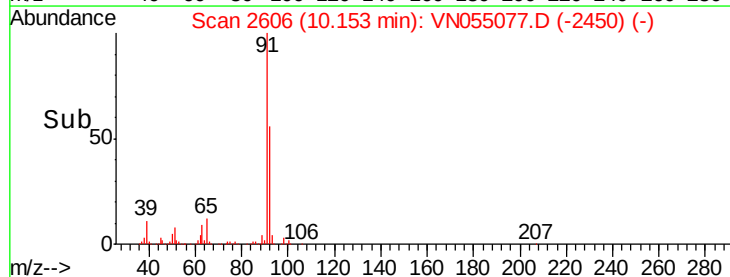
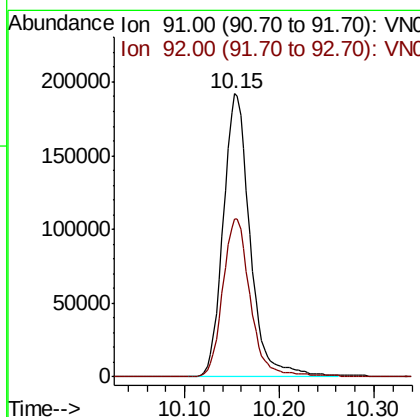
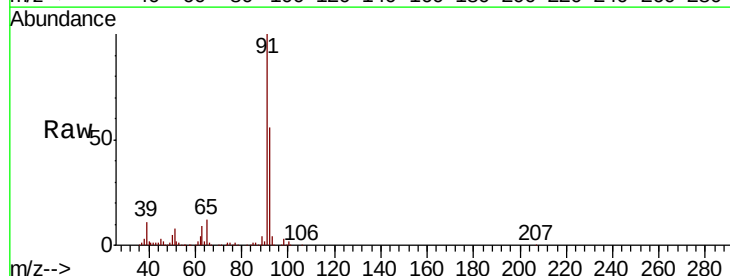
Manual Integrations
APPROVED

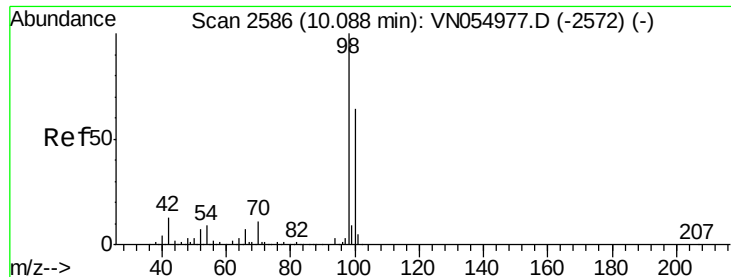
MMDadoda
4/17/2019 4:23:07 AM



#62
Toluene
Concen: 20.212 ug/l
RT: 10.15 min Scan# 2606
Delta R.T. 0.00 min
Lab File: VN055077.D
Acq: 16 Apr 2019 14:41

Tgt Ion	Ratio	Lower	Upper
91	100		
92	56.9	44.8	67.2





#63

Toluene-d8

Concen: 20.212 ug/l

RT: 10.09 min Scan# 2587

Delta R.T. 0.00 min

Lab File: VN055077.D

Acq: 16 Apr 2019 14:41

Instrument :

MSVOA_N

ClientSampleId :

VN0416WBSD01

Tot Ion: 98 Resp: 501143

Ion Ratio Lower Upper

98 100

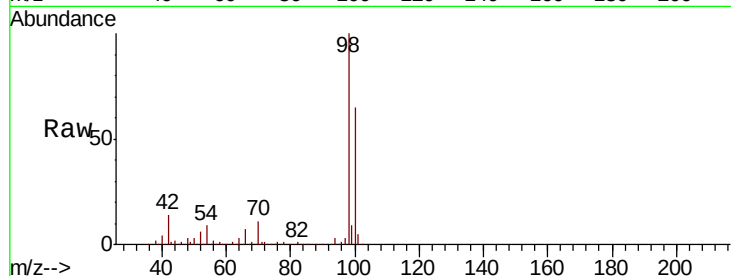
100 63.6 51.1 76.7

Manual Integrations

APPROVED

MMDadoda

4/17/2019 4:23:07 AM



Abundance Ion 98.00 (97.70 to 98.70): VN054977.D (-2572) (-)

Ion 100.00 (99.70 to 100.70): VN054977.D (-2572) (-)

10.09

250000

200000

150000

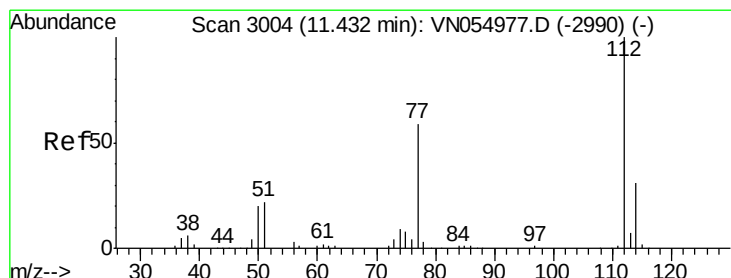
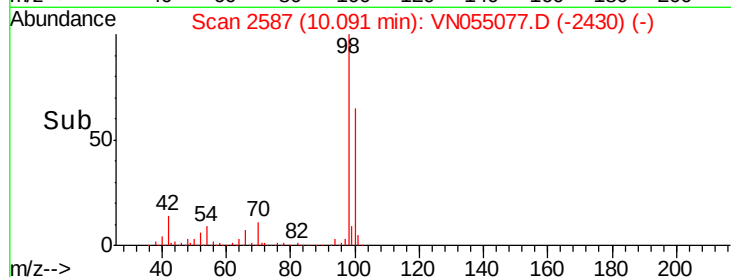
100000

50000

0

10.00 10.10 10.20

Time-->



#64

Chlorobenzene

Concen: 20.225 ug/l

RT: 11.43 min Scan# 3004

Delta R.T. 0.00 min

Lab File: VN055077.D

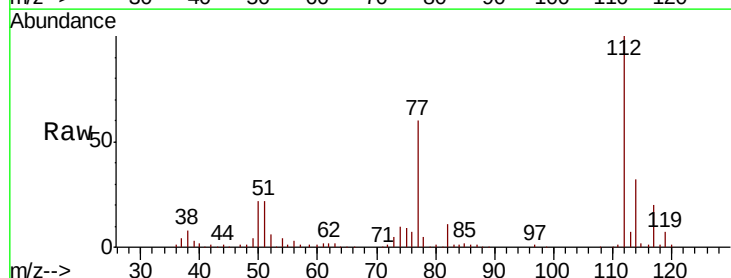
Acq: 16 Apr 2019 14:41

Tgt Ion: 112 Resp: 229915

Ion Ratio Lower Upper

112 100

114 32.3 25.1 37.7



Abundance Ion 112.00 (111.70 to 112.70): VN054977.D (-2990) (-)

Ion 114.00 (113.70 to 114.70): VN054977.D (-2990) (-)

11.43

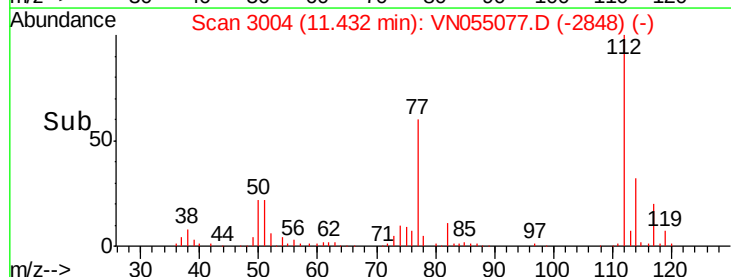
100000

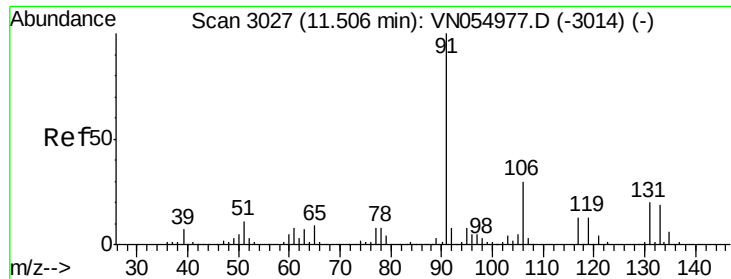
50000

0

11.40 11.50

Time-->





#65

1,1,1,2-Tetrachloroethane

Concen: 20.528 ug/l

RT: 11.51 min Scan# 3027

Delta R.T. 0.00 min

Lab File: VN055077.D

Acq: 16 Apr 2019 14:41

Instrument :

MSVOA_N

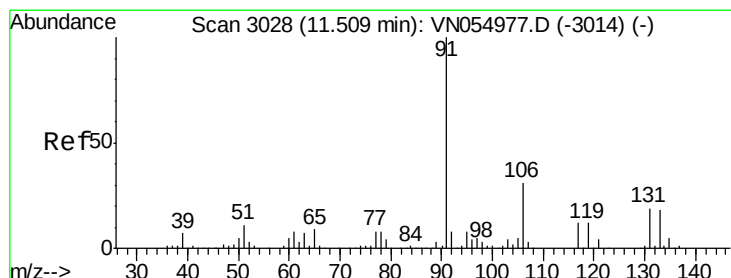
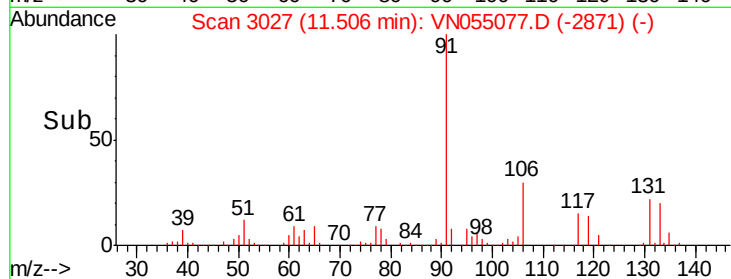
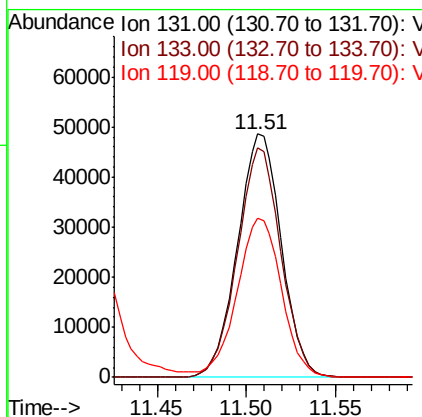
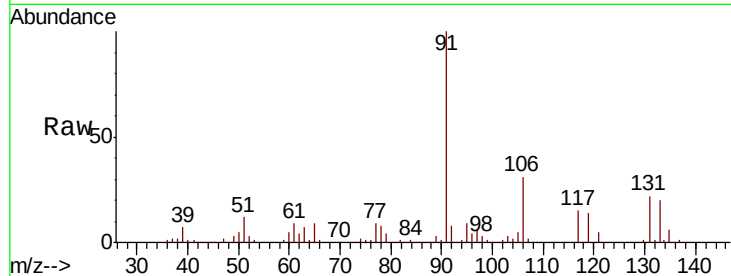
ClientSampleId :

VN0416WBSD01

Tot Ion	Ratio	Resp	Lower	Upper
131	100	82995		
133	93.6	0.0	187.8	
119	66.4	0.0	131.4	

Manual Integrations
APPROVED

MMDadoda
4/17/2019 4:23:07 AM



#66

Ethyl Benzene

Concen: 19.966 ug/l

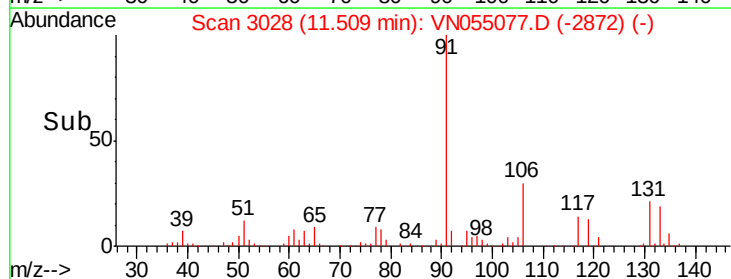
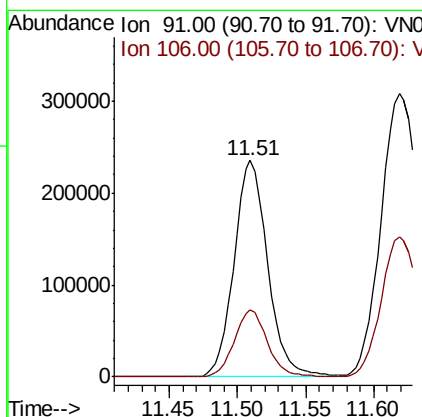
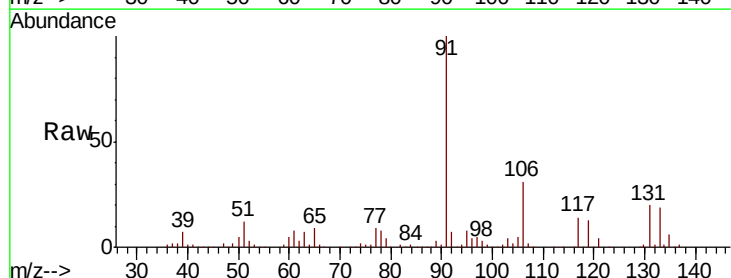
RT: 11.51 min Scan# 3028

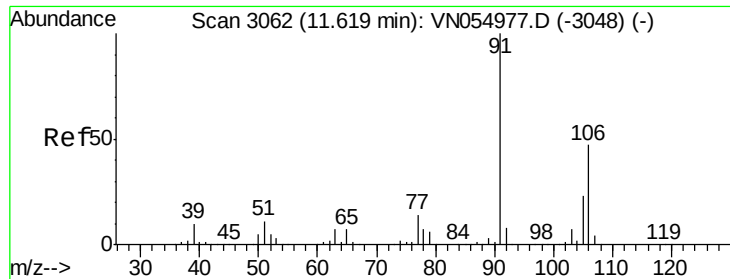
Delta R.T. 0.00 min

Lab File: VN055077.D

Acq: 16 Apr 2019 14:41

Tgt Ion	Ratio	Resp	Lower	Upper
91	100	403003		
106	31.0	24.6	36.8	





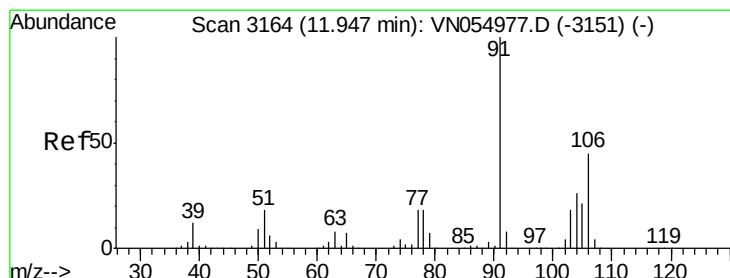
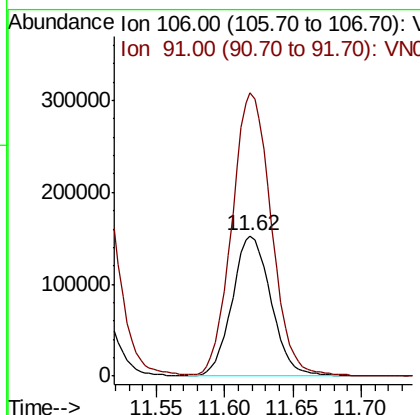
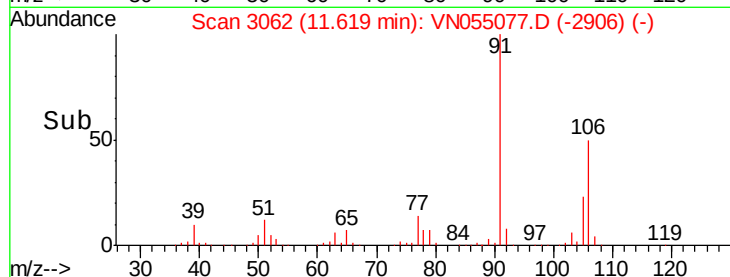
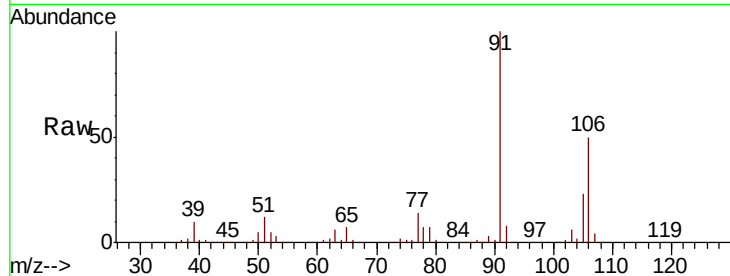
#67
m/p-Xylenes
Concen: 40.080 ug/l
RT: 11.62 min Scan# 3062
Delta R.T. 0.00 min
Lab File: VN055077.D
Acq: 16 Apr 2019 14:41

Instrument :
MSVOA_N
ClientSampleId :
VN0416WBSD01

Tot Ion:106 Resp: 300713
Ion Ratio Lower Upper
106 100
91 206.3 167.4 251.2

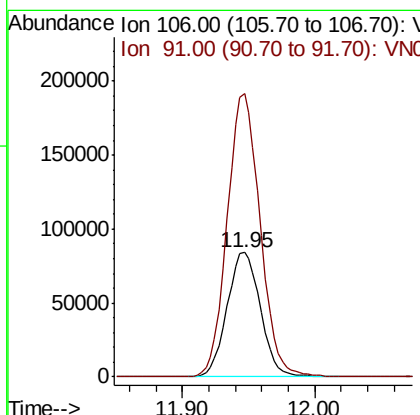
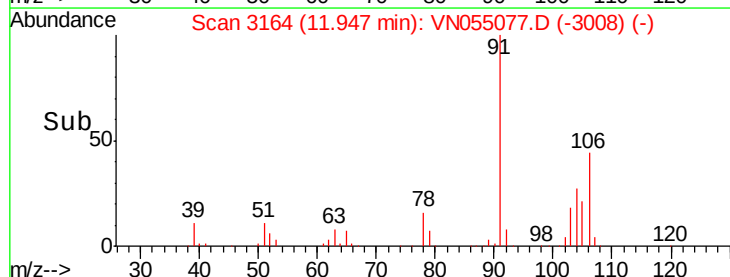
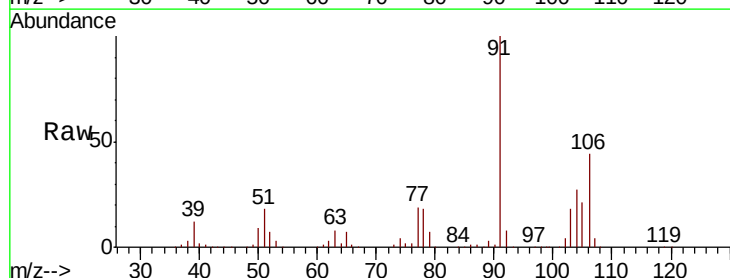
Manual Integrations
APPROVED

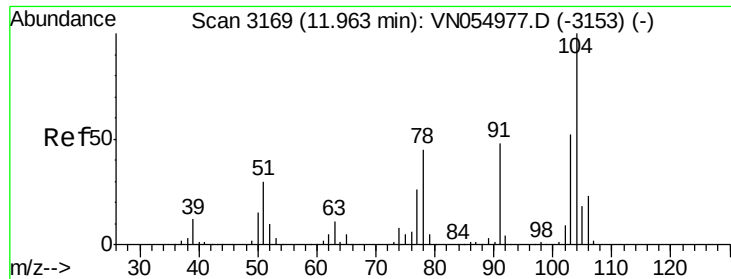
MMDadoda
4/17/2019 4:23:07 AM



#68
o-Xylene
Concen: 19.867 ug/l
RT: 11.95 min Scan# 3164
Delta R.T. 0.00 min
Lab File: VN055077.D
Acq: 16 Apr 2019 14:41

Tgt Ion:106 Resp: 147301
Ion Ratio Lower Upper
106 100
91 224.6 110.3 330.8





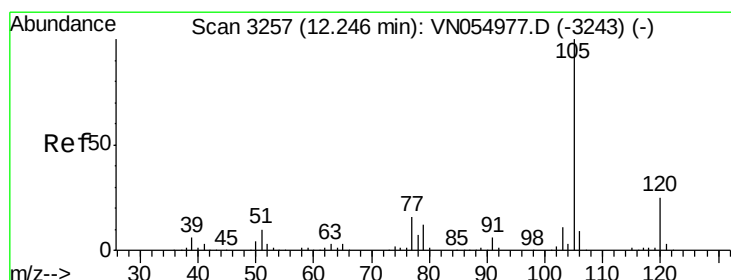
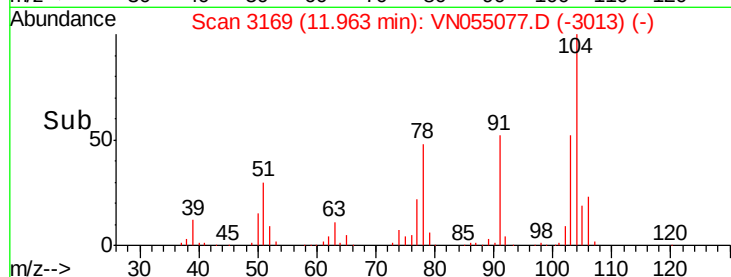
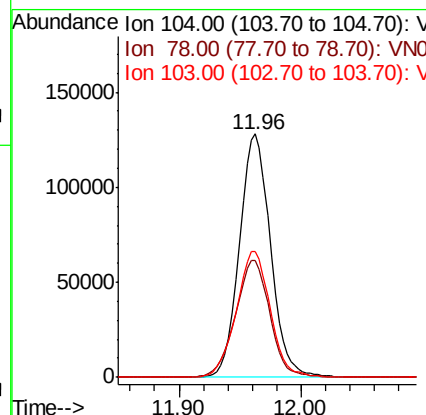
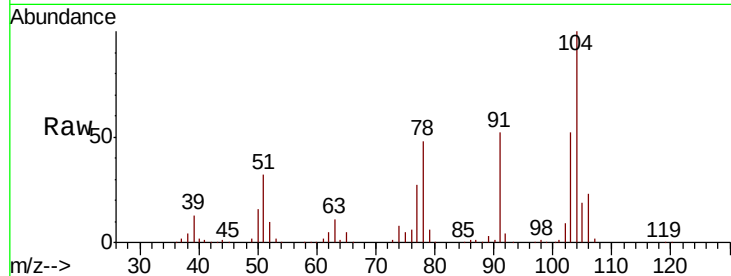
#69
Stvrene
Concen: 19.628 ug/l
RT: 11.96 min Scan# 3169
Delta R.T. 0.00 min
Lab File: VN055077.D
Acq: 16 Apr 2019 14:41

Instrument :
MSVOA_N
ClientSampleId :
VN0416WBSD01

Tot Ion	Ratio	Lower	Upper
104	100		
78	53.2	41.2	61.8
103	56.6	44.6	67.0

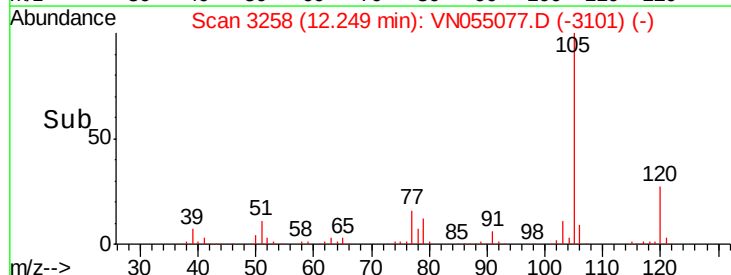
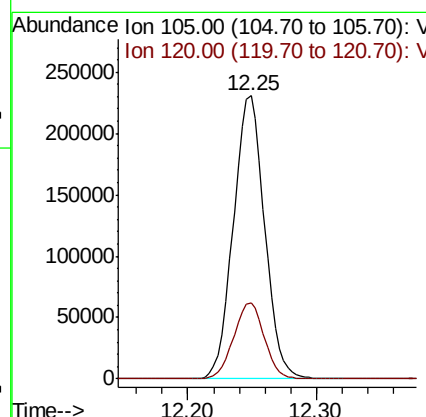
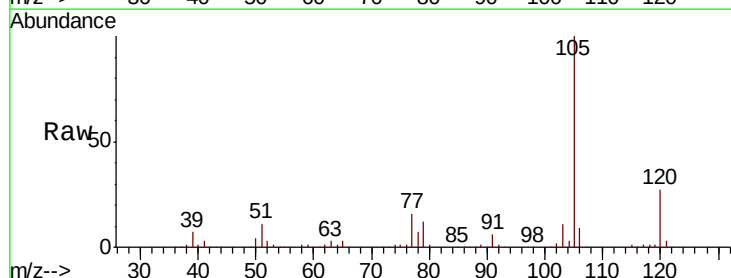
Manual Integrations
APPROVED

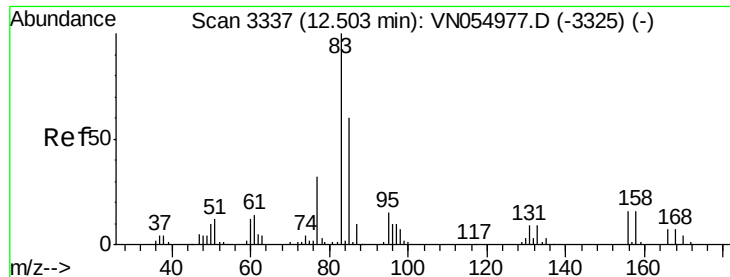
MMDadoda
4/17/2019 4:23:07 AM



#70
Isopropylbenzene
Concen: 19.543 ug/l
RT: 12.25 min Scan# 3258
Delta R.T. 0.00 min
Lab File: VN055077.D
Acq: 16 Apr 2019 14:41

Tgt Ion	Ratio	Lower	Upper
105	100		
120	26.4	18.3	33.9





#71

1,1,2,2-Tetrachloroethane

Concen: 21.458 ug/l

RT: 12.50 min Scan# 3337

Delta R.T. 0.00 min

Lab File: VN055077.D

Acq: 16 Apr 2019 14:41

Instrument :

MSVOA_N

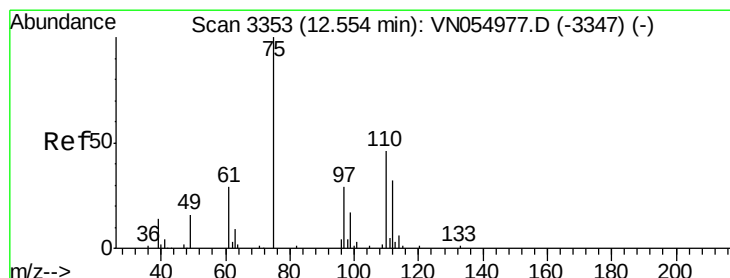
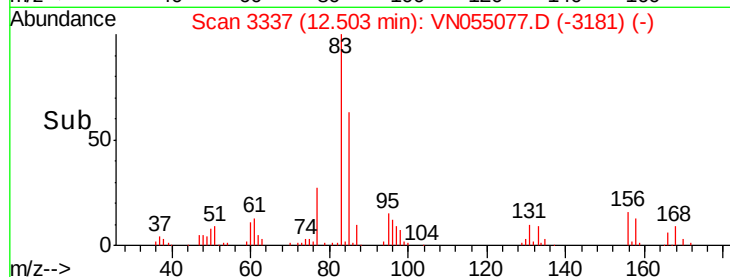
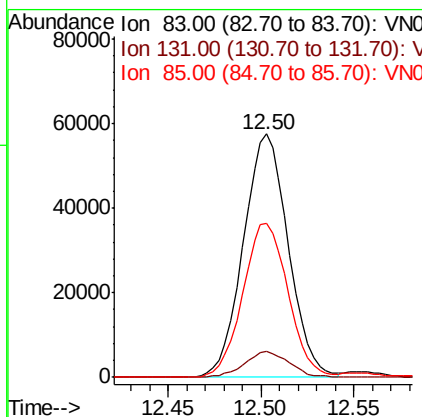
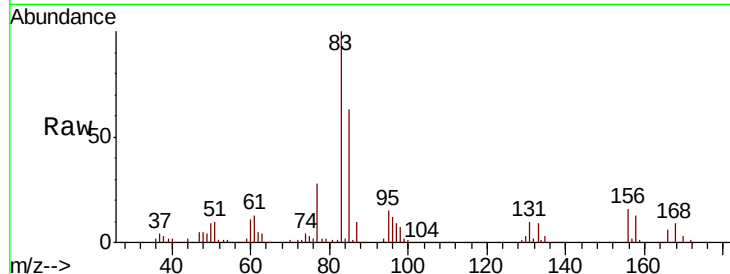
ClientSampleId :

VN0416WBSD01

Tot Ion:	83	Resp:	97294
Ion	Ratio	Lower	Upper
83	100		
131	10.5	4.6	13.8
85	63.6	30.9	92.5

Manual Integrations
APPROVED

MMDadoda
4/17/2019 4:23:07 AM



#72

1,2,3-Trichloropropane

Concen: 22.447 ug/l m

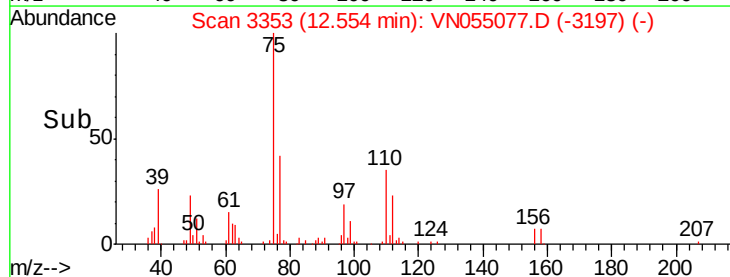
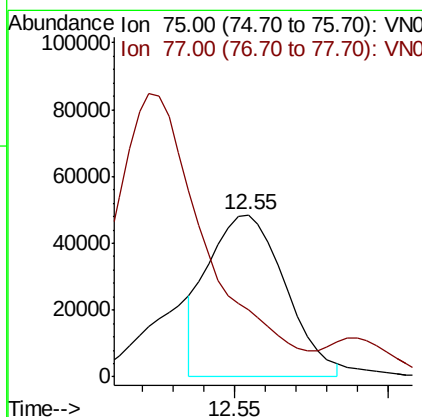
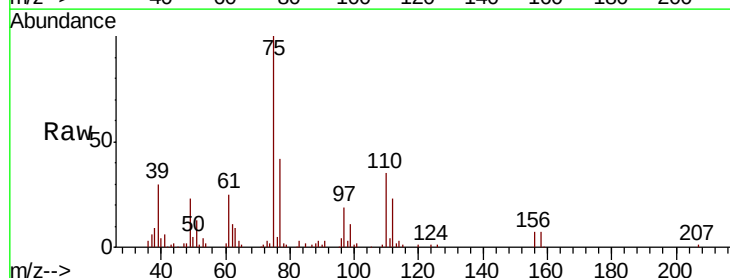
RT: 12.55 min Scan# 3353

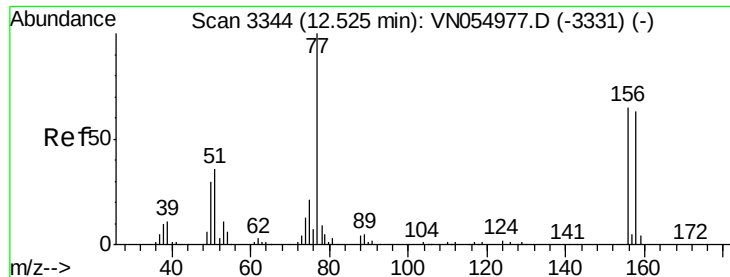
Delta R.T. 0.00 min

Lab File: VN055077.D

Acq: 16 Apr 2019 14:41

Tgt Ion:	75	Resp:	84052
Ion	Ratio	Lower	Upper
75	100		
77	211.5	0.0	466.6





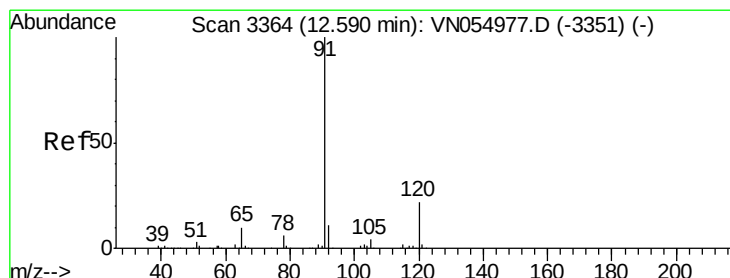
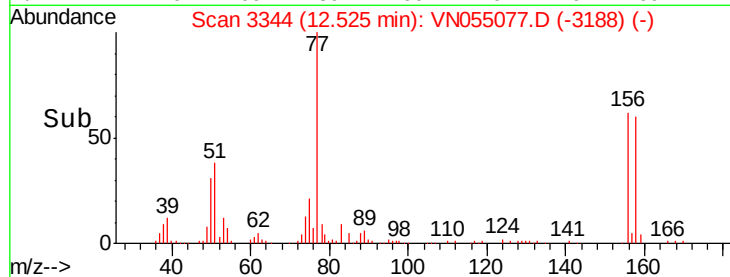
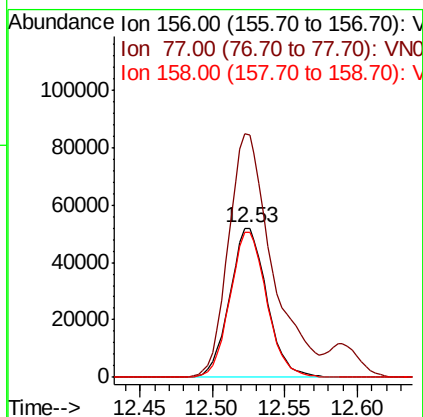
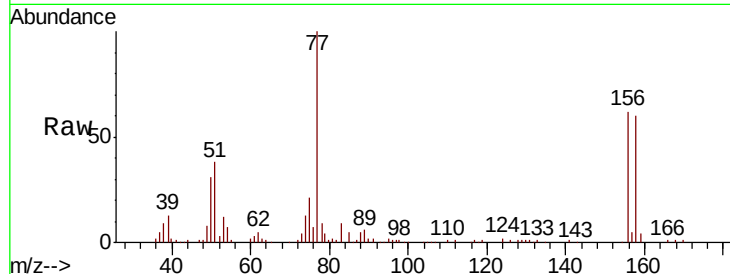
#73
Bromobenzene
Concen: 19.708 ug/l
RT: 12.53 min Scan# 3344
Delta R.T. 0.00 min
Lab File: VN055077.D
Acq: 16 Apr 2019 14:41

Instrument :
MSVOA_N
ClientSampleId :
VN0416WBSD01

Tot Ion	Ion	Ratio	Lower	Upper
156	100			
77	192.5	0.0	383.2	
158	96.4	0.0	193.8	

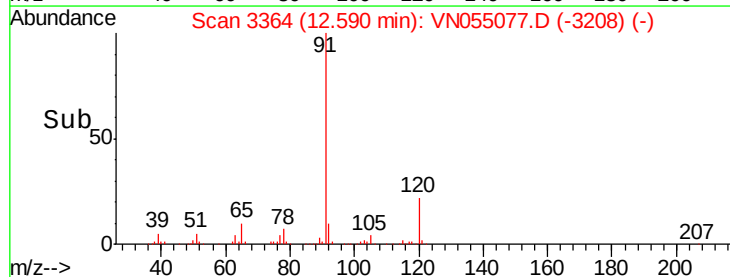
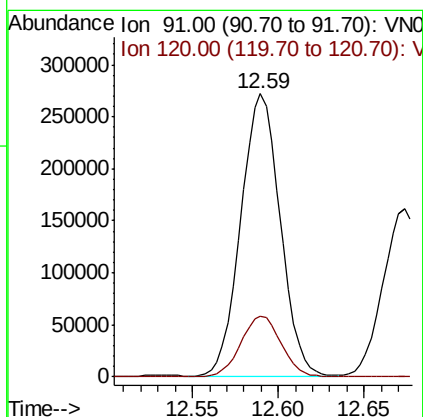
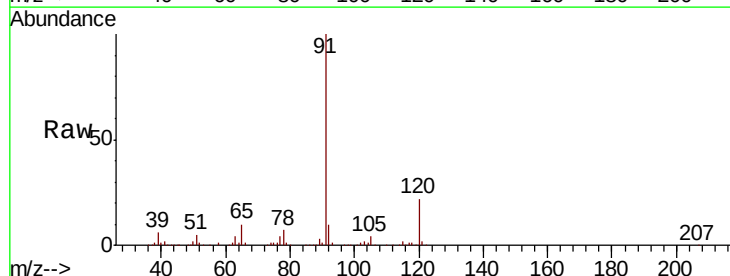
Manual Integrations
APPROVED

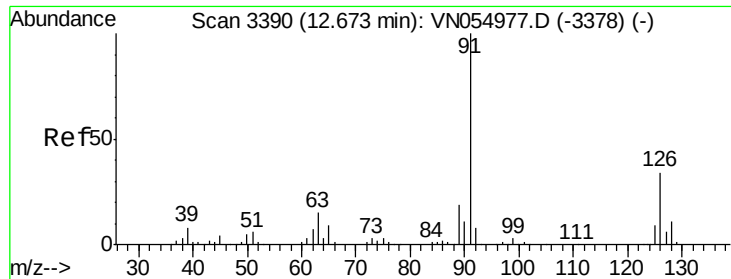
MMDadoda
4/17/2019 4:23:07 AM



#74
n-propylbenzene
Concen: 19.673 ug/l
RT: 12.59 min Scan# 3364
Delta R.T. 0.00 min
Lab File: VN055077.D
Acq: 16 Apr 2019 14:41

Tgt Ion	Ion	Ratio	Lower	Upper
91	100			
120	21.8	0.0	44.4	





#75

2-Chlorotoluene

Concen: 20.222 ug/l

RT: 12.67 min Scan# 3390

Delta R.T. 0.00 min

Lab File: VN055077.D

Acq: 16 Apr 2019 14:41

Instrument :

MSVOA_N

ClientSampleId :

VN0416WBSD01

Tot Ion: 91 Resp: 270675

Ion Ratio Lower Upper

91 100

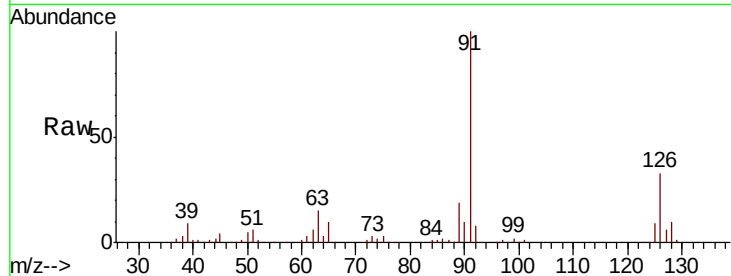
126 33.4 0.0 67.4

Manual Integrations

APPROVED

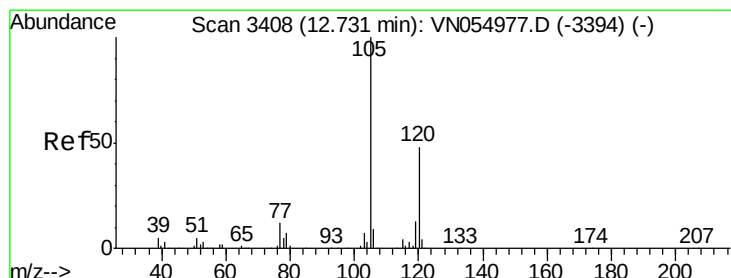
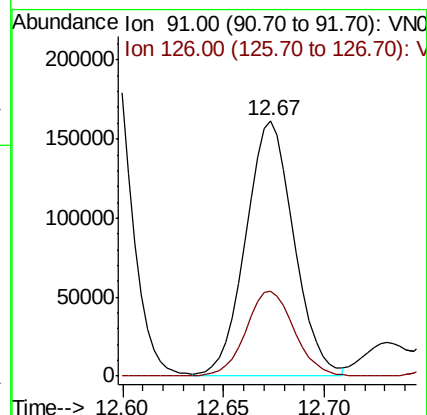
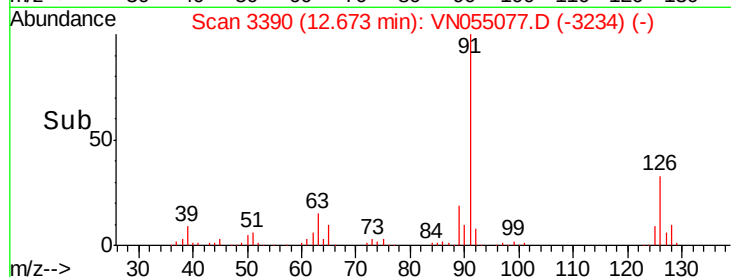
MMDadoda

4/17/2019 4:23:07 AM



Abundance Ion 91.00 (90.70 to 91.70): VN054977.D (-3378) (-)

Ion 126.00 (125.70 to 126.70): VN054977.D (-3378) (-)



#76

1,3,5-Trimethylbenzene

Concen: 19.227 ug/l

RT: 12.73 min Scan# 3408

Delta R.T. 0.00 min

Lab File: VN055077.D

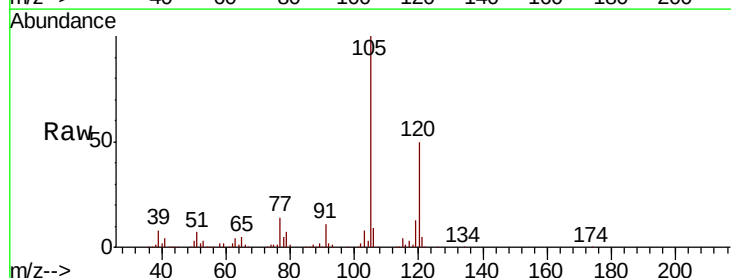
Acq: 16 Apr 2019 14:41

Tgt Ion: 105 Resp: 308156

Ion Ratio Lower Upper

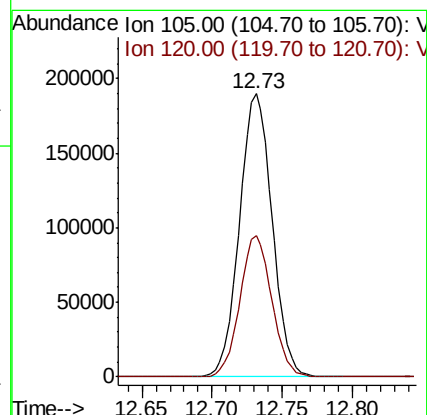
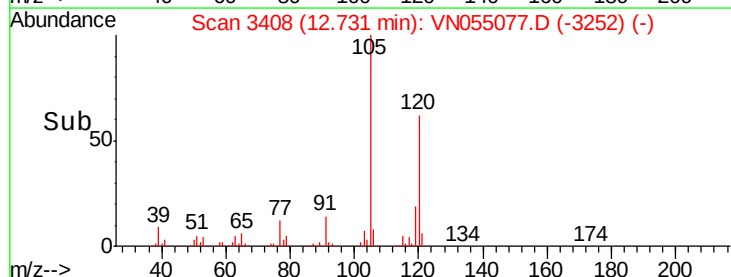
105 100

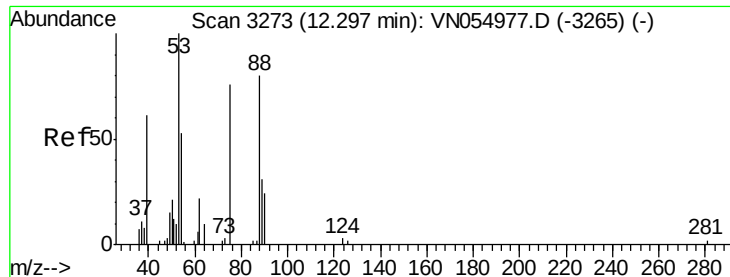
120 48.7 0.0 94.8



Abundance Ion 105.00 (104.70 to 105.70): VN054977.D (-3394) (-)

Ion 120.00 (119.70 to 120.70): VN054977.D (-3394) (-)





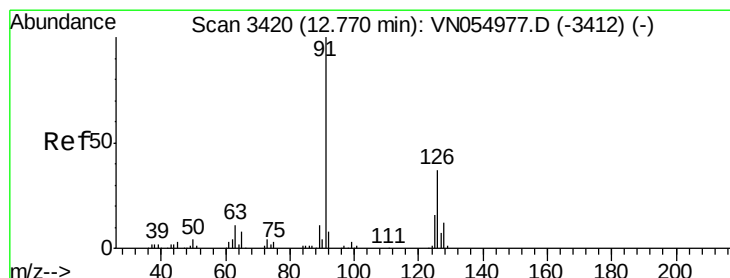
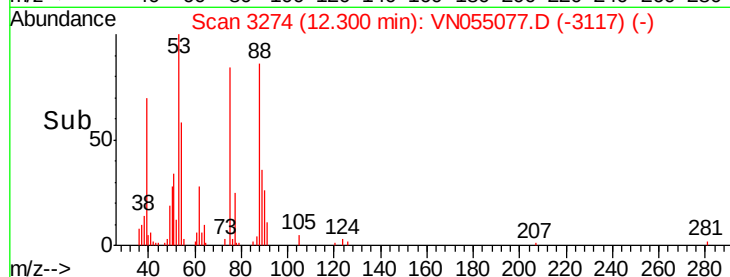
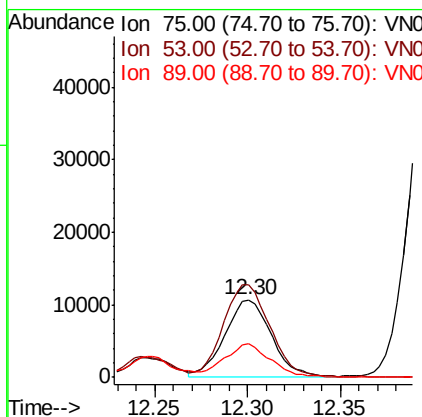
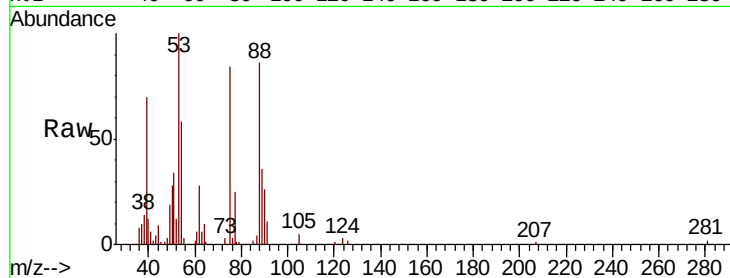
#77
t-1,4-Dichloro-2-butene
Concen: 19.892 ug/l
RT: 12.30 min Scan# 3274
Delta R.T. 0.00 min
Lab File: VN055077.D
Acq: 16 Apr 2019 14:41

Instrument :
MSVOA_N
ClientSampleId :
VN0416WBSD01

Tot Ion	Ratio	Lower	Upper
75	100		
53	118.7	64.3	192.7
89	43.0	21.6	65.0

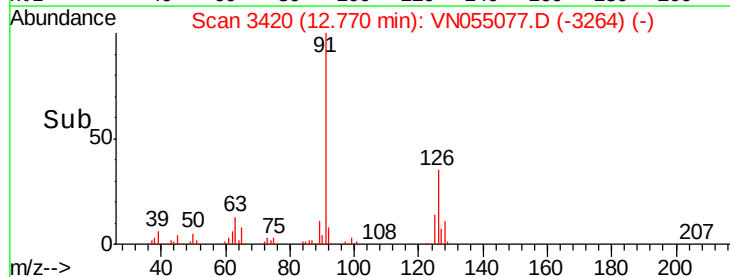
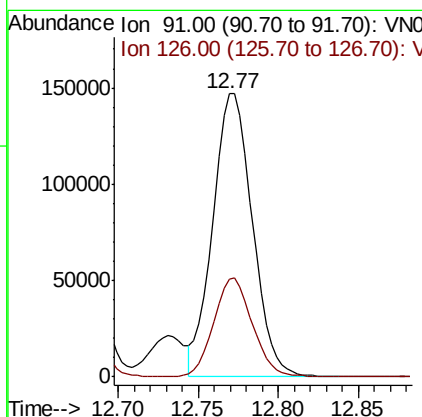
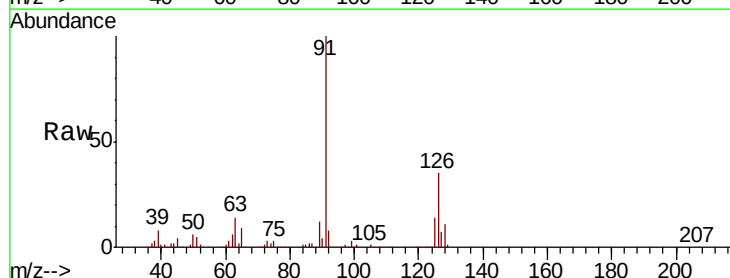
Manual Integrations
APPROVED

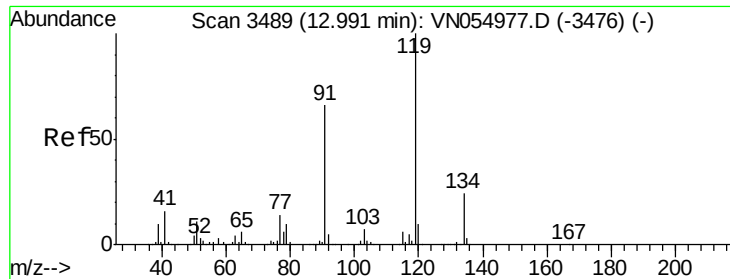
MMDadoda
4/17/2019 4:23:07 AM



#78
4-Chlorotoluene
Concen: 19.703 ug/l
RT: 12.77 min Scan# 3420
Delta R.T. 0.00 min
Lab File: VN055077.D
Acq: 16 Apr 2019 14:41

Tgt Ion	Ratio	Lower	Upper
91	100		
126	34.1	0.0	66.6





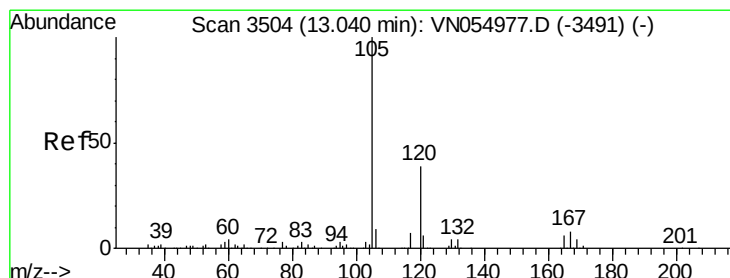
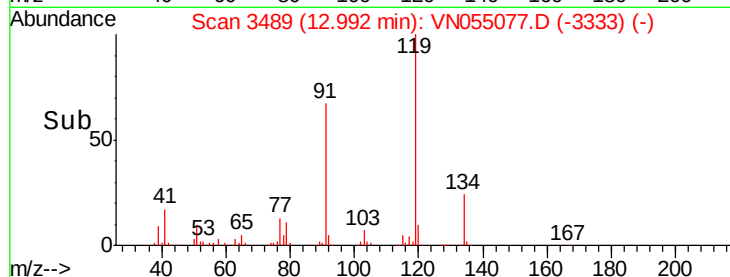
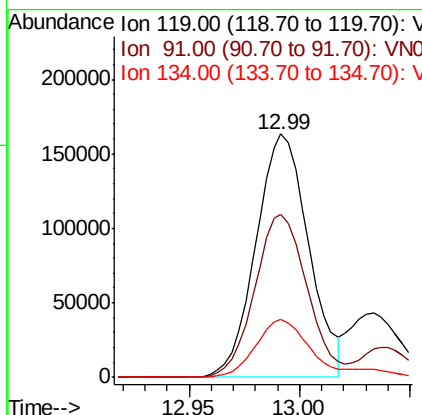
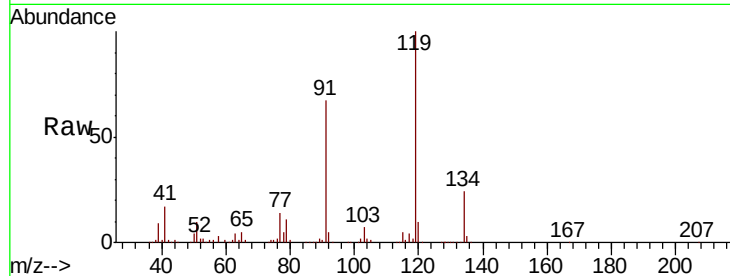
#79
tert-butylbenzene
Concen: 19.511 ug/l
RT: 12.99 min Scan# 3489
Delta R.T. 0.00 min
Lab File: VN055077.D
Acq: 16 Apr 2019 14:41

Instrument :
MSVOA_N
ClientSampleId :
VN0416WBSD01

Tot Ion	Ratio	Resp	Lower	Upper
119	100	270571		
91	66.5		0.0	132.6
134	23.8		0.0	47.6

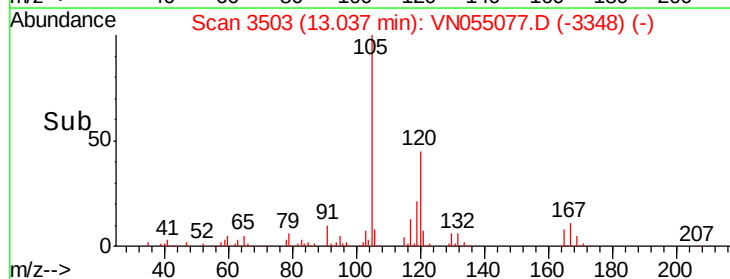
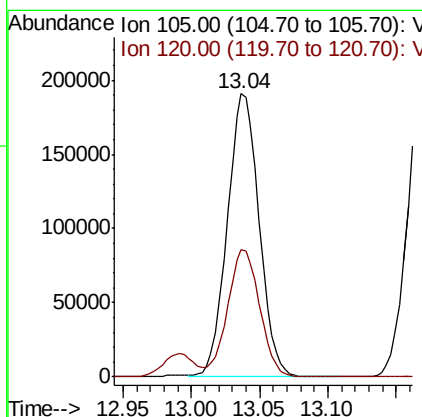
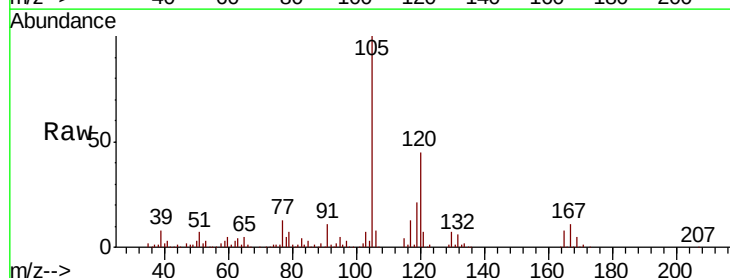
Manual Integrations
APPROVED

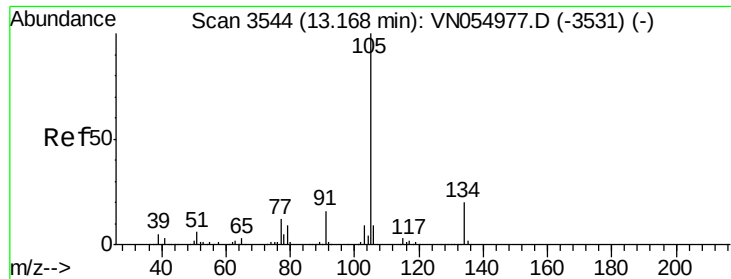
MMDadoda
4/17/2019 4:23:07 AM



#80
1,2,4-Trimethylbenzene
Concen: 19.626 ug/l
RT: 13.04 min Scan# 3503
Delta R.T. -0.00 min
Lab File: VN055077.D
Acq: 16 Apr 2019 14:41

Tgt Ion	Ratio	Resp	Lower	Upper
105	100	308995		
120	45.6		0.0	91.4





#81

sec-Butylbenzene

Concen: 18.915 ug/l

RT: 13.17 min Scan# 3545

Delta R.T. 0.00 min

Lab File: VN055077.D

Acq: 16 Apr 2019 14:41

Instrument :

MSVOA_N

ClientSampleId :

VN0416WBSD01

Tot Ion:105 Resp: 350485

Ion Ratio Lower Upper

105 100

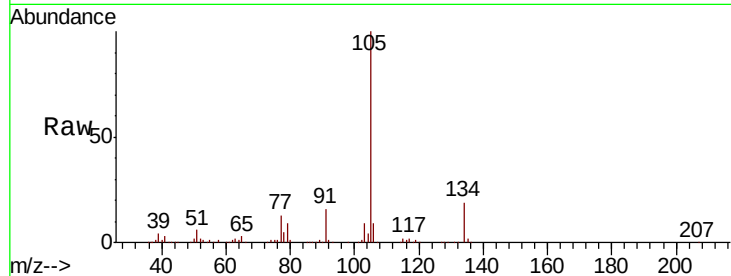
134 19.7 0.0 40.0

Manual Integrations

APPROVED

MMDadoda

4/17/2019 4:23:07 AM



Abundance Ion 105.00 (104.70 to 105.70): V

Ion 134.00 (133.70 to 134.70): V

250000

200000

150000

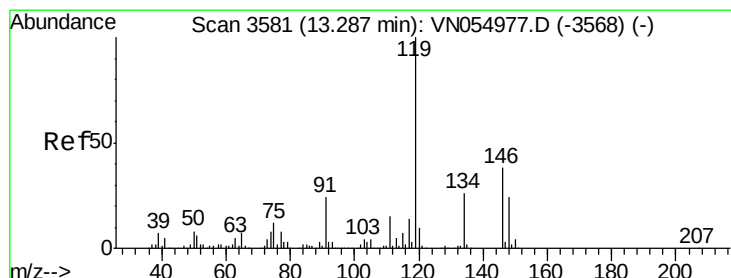
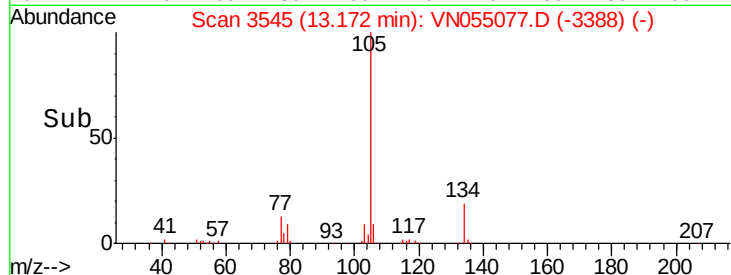
100000

50000

0

13.10 13.15 13.20

Time-->



#82

p-Isopropyltoluene

Concen: 18.916 ug/l

RT: 13.29 min Scan# 3581

Delta R.T. 0.00 min

Lab File: VN055077.D

Acq: 16 Apr 2019 14:41

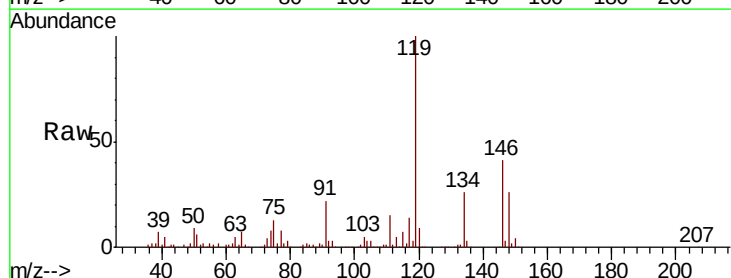
Tgt Ion:119 Resp: 295819

Ion Ratio Lower Upper

119 100

134 25.9 0.0 53.2

91 23.7 0.0 47.8



Abundance Ion 119.00 (118.70 to 119.70): V

Ion 134.00 (133.70 to 134.70): V

Ion 91.00 (90.70 to 91.70): V

250000

200000

150000

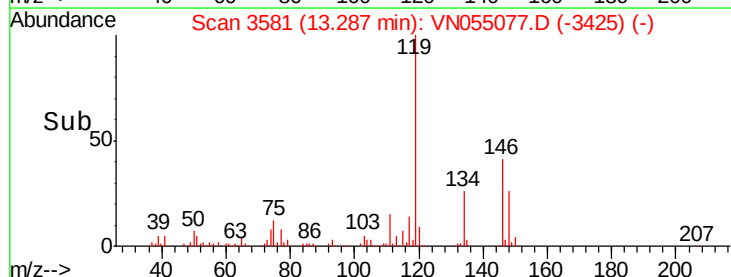
100000

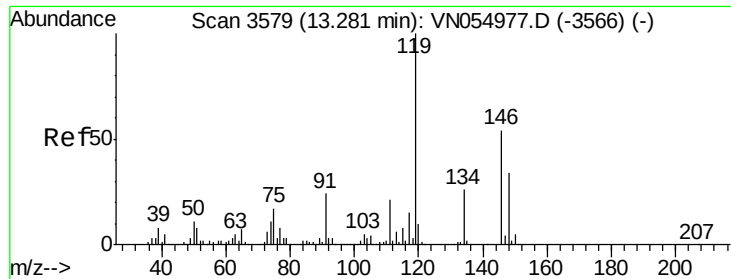
50000

0

13.20 13.25 13.30 13.35

Time-->





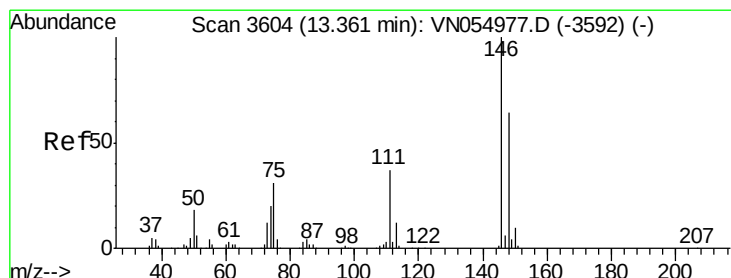
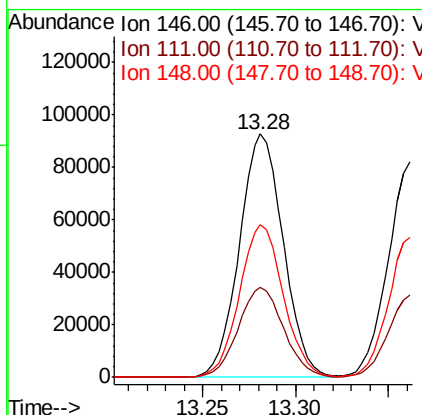
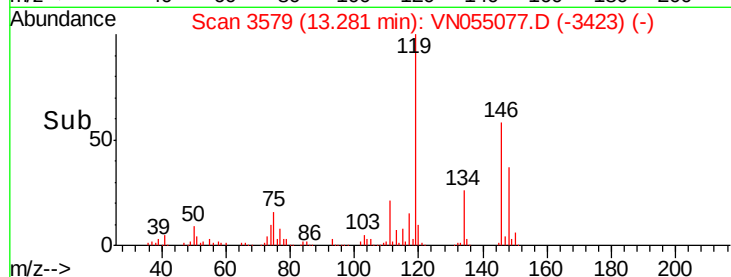
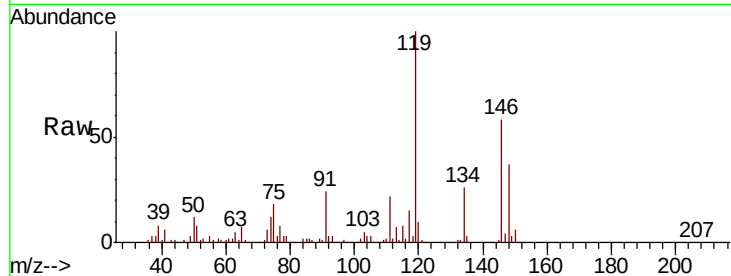
#83
 1,3-Dichlorobenzene
 Concen: 19.526 ug/l
 RT: 13.28 min Scan# 3579
 Delta R.T. 0.00 min
 Lab File: VN055077.D
 Acq: 16 Apr 2019 14:41

Instrument :
 MSVOA_N
 ClientSampleId :
 VN0416WBSD01

Tot Ion	Ratio	Lower	Upper
146	100		
111	38.2	19.1	57.5
148	62.7	31.9	95.5

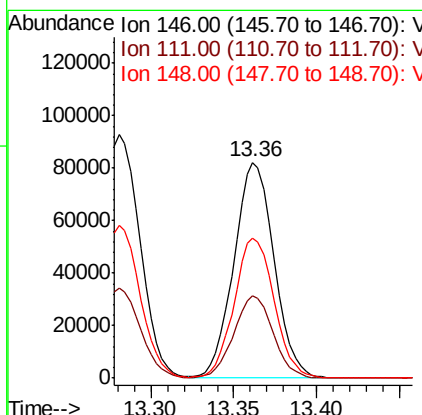
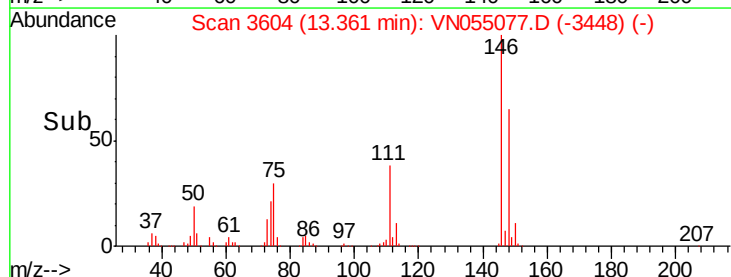
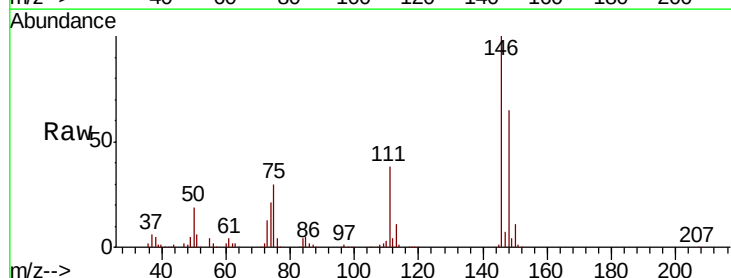
Manual Integrations
 APPROVED

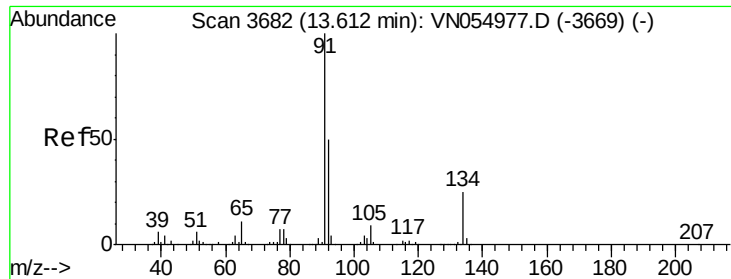
MMDadoda
 4/17/2019 4:23:07 AM



#84
 1,4-Dichlorobenzene
 Concen: 18.597 ug/l
 RT: 13.36 min Scan# 3604
 Delta R.T. 0.00 min
 Lab File: VN055077.D
 Acq: 16 Apr 2019 14:41

Tgt Ion	Ratio	Lower	Upper
146	100		
111	37.2	18.4	55.2
148	64.7	32.5	97.4





#85

n-Butylbenzene

Concen: 17.517 ug/l

RT: 13.61 min Scan# 3682

Delta R.T. 0.00 min

Lab File: VN055077.D

Acq: 16 Apr 2019 14:41

Instrument :

MSVOA_N

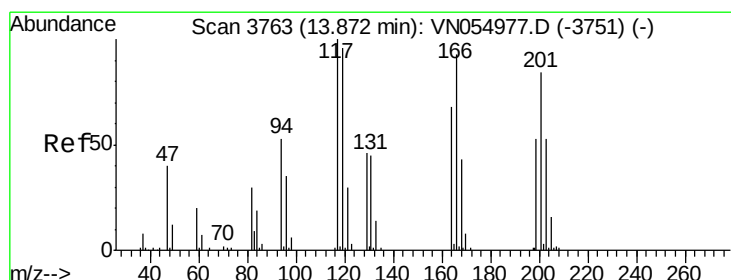
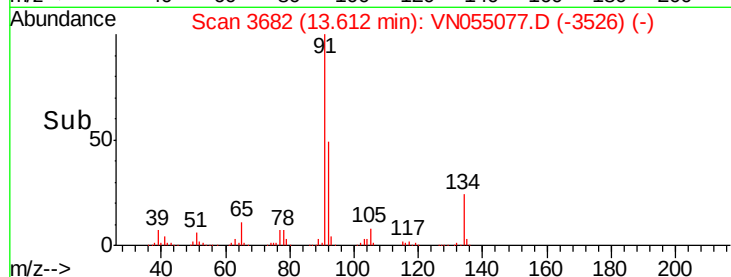
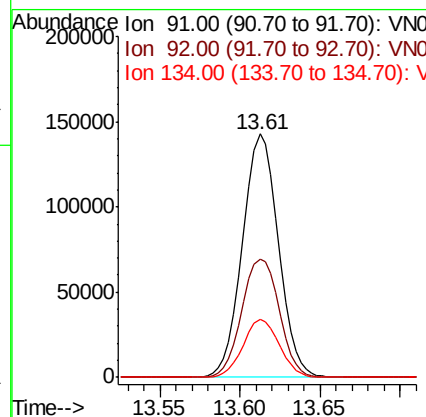
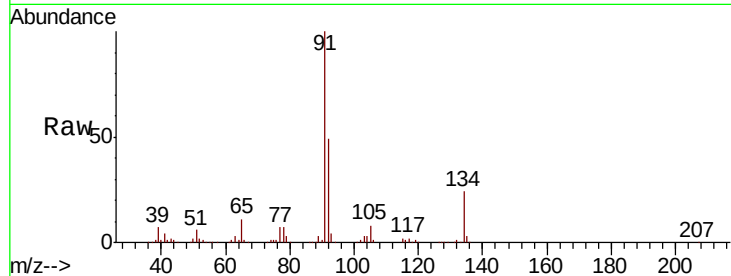
ClientSampleId :

VN0416WBSD01

Tot Ion:	91	Resp:	218203
Ion Ratio	Lower	Upper	
91	100		
92	50.9	0.0	101.4
134	24.0	0.0	49.8

Manual Integrations
APPROVED

MMDadoda
4/17/2019 4:23:07 AM



#86

Hexachloroethane

Concen: 17.991 ug/l

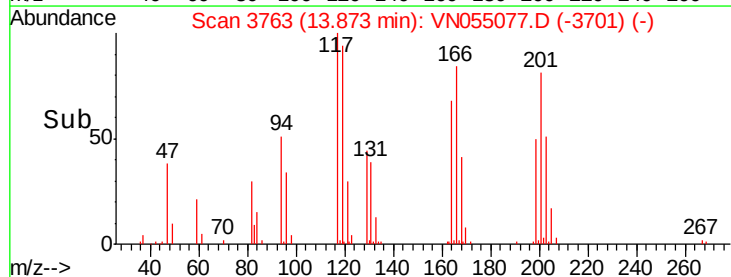
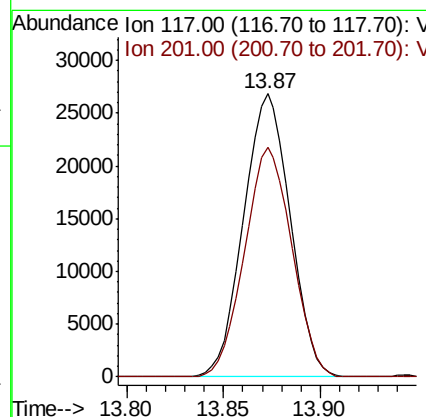
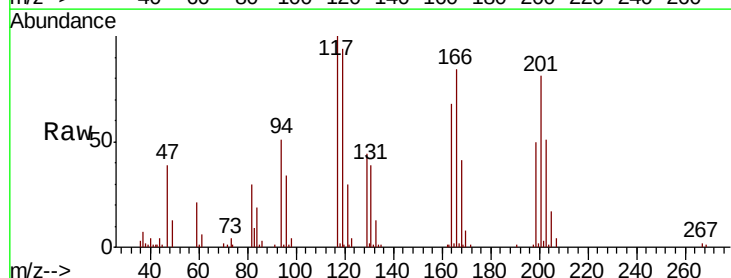
RT: 13.87 min Scan# 3763

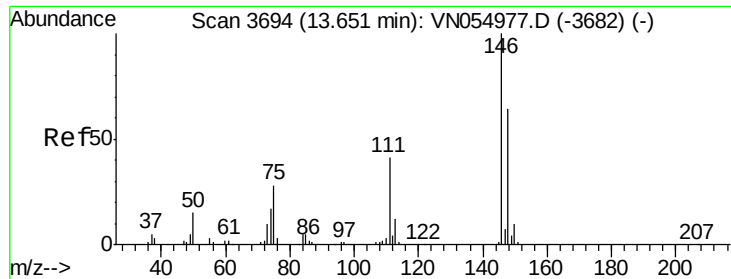
Delta R.T. 0.00 min

Lab File: VN055077.D

Acq: 16 Apr 2019 14:41

Tgt Ion:	117	Resp:	45040
Ion Ratio	Lower	Upper	
117	100		
201	82.1	42.8	128.3





#87

1,2-Dichlorobenzene

Concen: 20.071 ug/l

RT: 13.65 min Scan# 3694

Delta R.T. 0.00 min

Lab File: VN055077.D

Acq: 16 Apr 2019 14:41

Instrument :

MSVOA_N

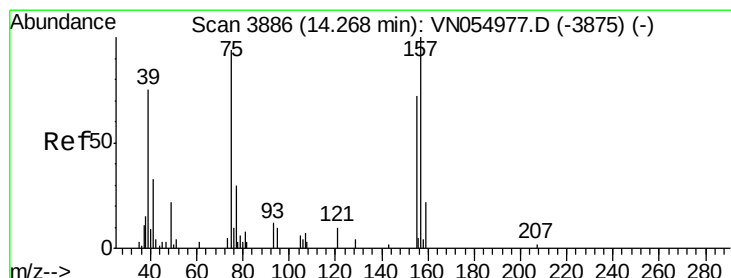
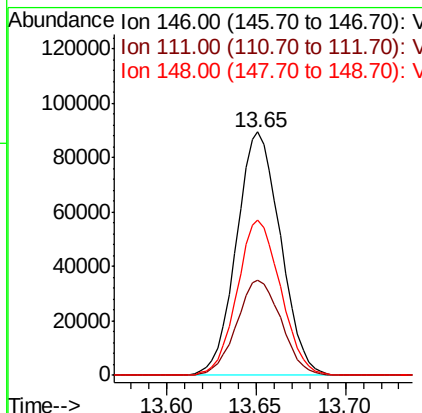
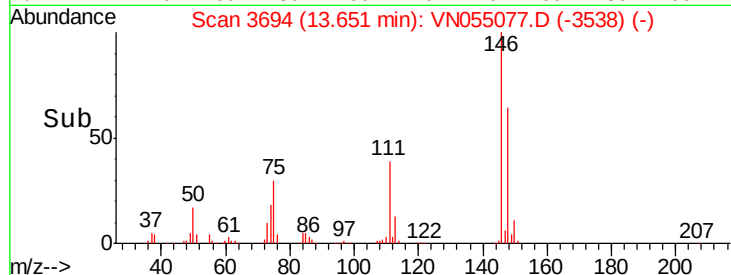
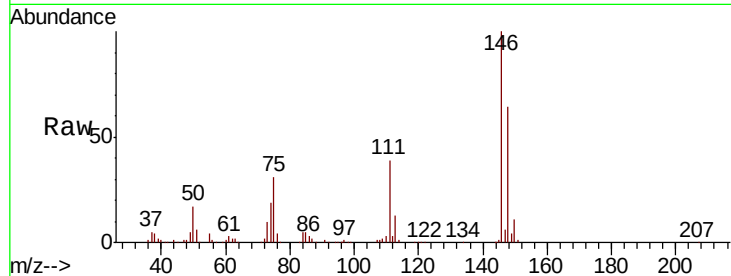
ClientSampleId :

VN0416WBSD01

Tot Ion:	146	Resp:	154082
Ion Ratio	Lower	Upper	
146	100		
111	39.6	20.3	60.8
148	63.2	32.5	97.5

Manual Integrations
APPROVED

MMDadoda
4/17/2019 4:23:07 AM



#88

1,2-Dibromo-3-Chloropropane

Concen: 20.630 ug/l

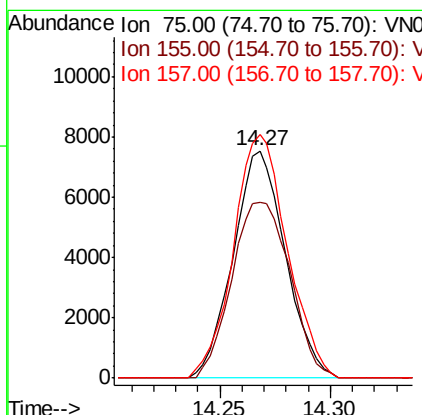
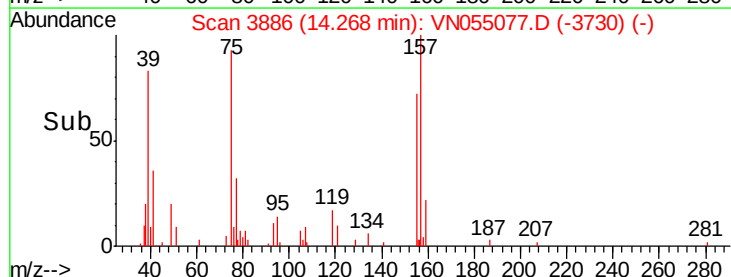
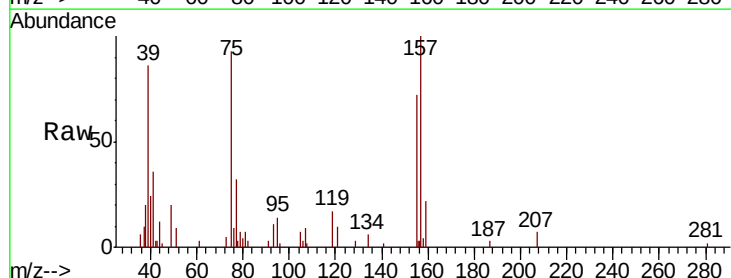
RT: 14.27 min Scan# 3886

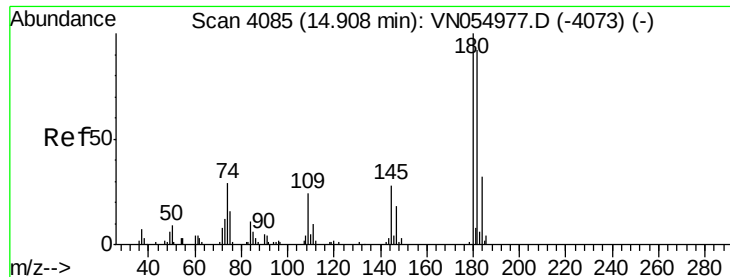
Delta R.T. 0.00 min

Lab File: VN055077.D

Acq: 16 Apr 2019 14:41

Tgt Ion:	75	Resp:	12432
Ion Ratio	Lower	Upper	
75	100		
155	85.9	61.8	92.8
157	110.3	82.7	124.1





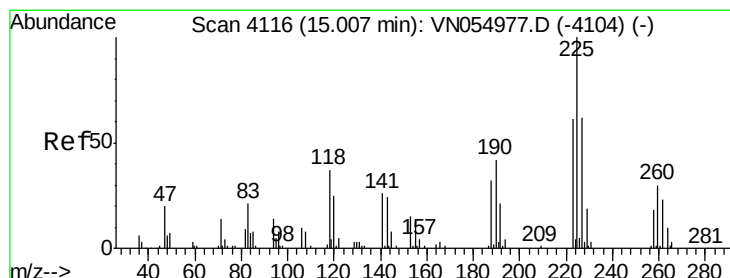
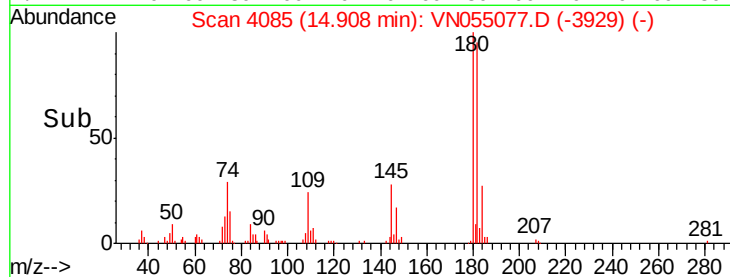
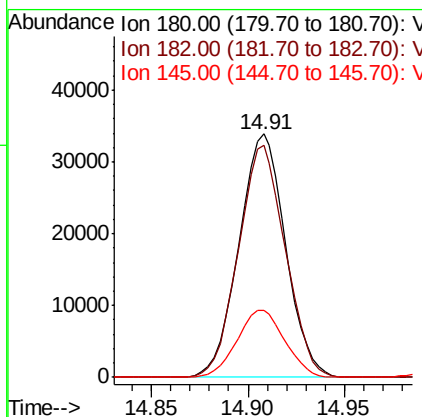
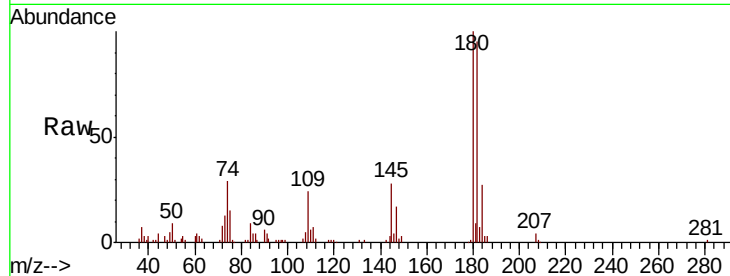
#89
 1,2,4-Trichlorobenzene
 Concen: 16.532 ug/l
 RT: 14.91 min Scan# 4085
 Delta R.T. 0.00 min
 Lab File: VN055077.D
 Acq: 16 Apr 2019 14:41

Instrument :
 MSVOA_N
 ClientSampleId :
 VN0416WBSD01

Tot Ion	Ratio	Lower	Upper
180	100		
182	95.8	73.2	109.8
145	28.2	23.2	34.8

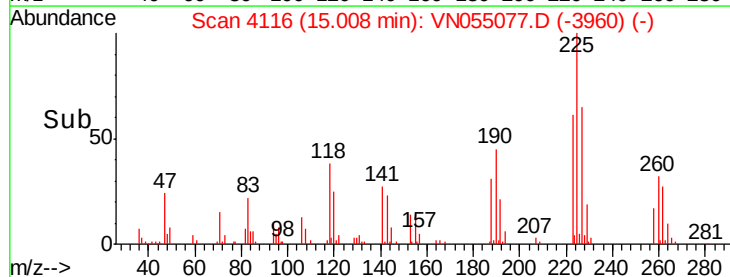
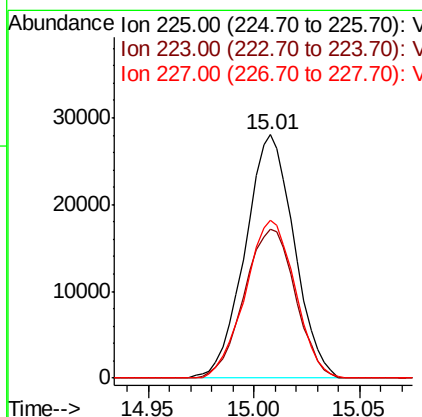
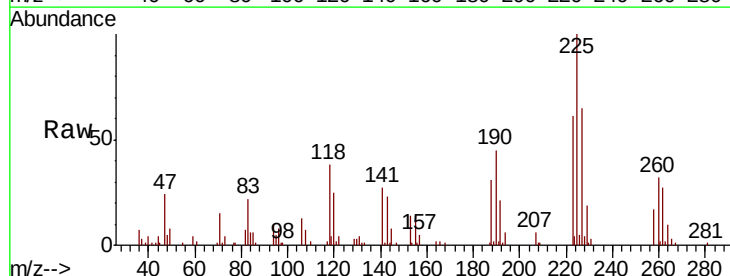
Manual Integrations
 APPROVED

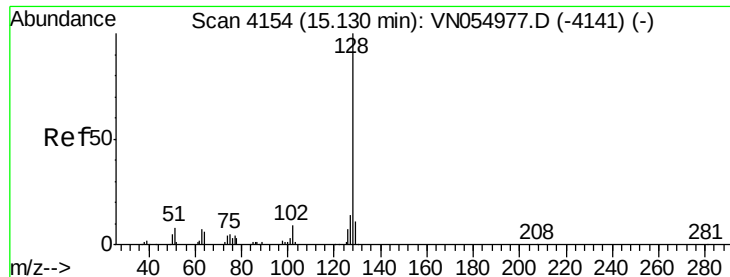
MMDadoda
 4/17/2019 4:23:07 AM



#90
 Hexachlorobutadiene
 Concen: 18.084 ug/l
 RT: 15.01 min Scan# 4116
 Delta R.T. 0.00 min
 Lab File: VN055077.D
 Acq: 16 Apr 2019 14:41

Tgt Ion	Ratio	Lower	Upper
225	100		
223	64.1	0.0	126.0
227	66.0	0.0	125.4





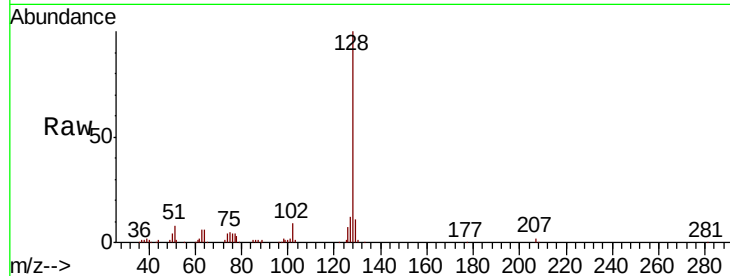
#91
Naphthalene
Concen: 17.328 ug/l
RT: 15.13 min Scan# 4154
Delta R.T. 0.00 min
Lab File: VN055077.D
Acq: 16 Apr 2019 14:41

Instrument :
MSVOA_N
ClientSampleId :
VN0416WBSD01

Tot Ion	Ratio	Resp	Lower	Upper
128	100	124529		
127	13.2		10.6	15.8
129	11.2		9.0	13.6

Manual Integrations
APPROVED

MMDadoda
4/17/2019 4:23:07 AM

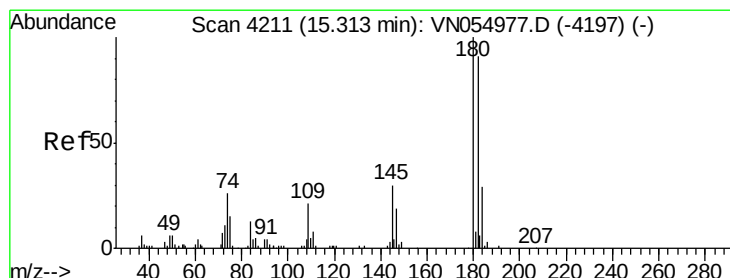
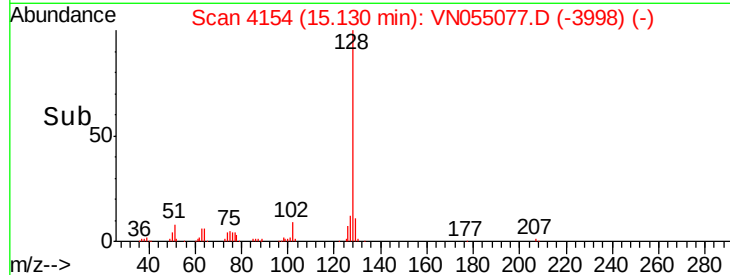
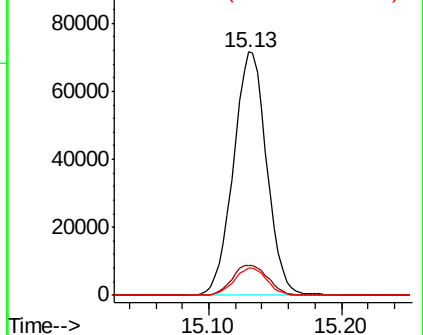


Abundance

Ion 128.00 (127.70 to 128.70): V

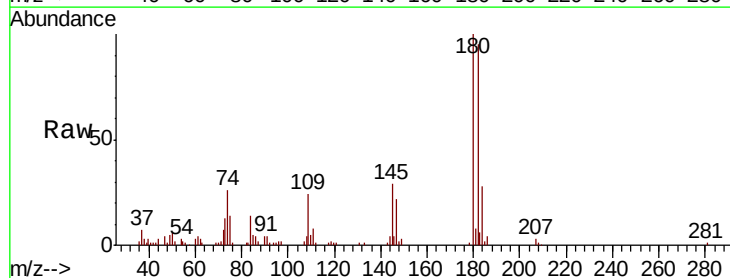
Ion 127.00 (126.70 to 127.70): V

Ion 129.00 (128.70 to 129.70): V



#92
1,2,3-Trichlorobenzene
Concen: 17.345 ug/l
RT: 15.31 min Scan# 4211
Delta R.T. 0.00 min
Lab File: VN055077.D
Acq: 16 Apr 2019 14:41

Tgt Ion	Ratio	Resp	Lower	Upper
180	100	59536		
182	96.4		0.0	188.2
145	30.4		0.0	61.2



Abundance

Ion 180.00 (179.70 to 180.70): V

Ion 182.00 (181.70 to 182.70): V

Ion 145.00 (144.70 to 145.70): V

