

Data Path : Z:\VOASRV\HPCHEM1\MSVOA N\DATA\VN050719\
 Data File : VN055452.D
 Acq On : 7 May 2019 22:13
 Operator : JC/SP
 Sample : VN0507MBS02
 Misc : 5.00µg/10mL/100µL/5.00mL/MSVOA_N/MEOH
 ALS Vial : 27 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 VN0507MBS02

Manual Integrations
 APPROVED

MMDadoda
 5/8/2019 10:16:23 AM

Quant Time: May 08 07:41:55 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_N\METHODS\82N042919W.M
 Quant Title : SW846 8260
 QLast Update : Tue Apr 30 07:16:52 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	7.67	168	330870	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	8.59	114	551905	50.00	ug/l	0.00
63) Chlorobenzene-d5	11.41	117	458747	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.35	152	179408	50.00	ug/l	0.00

System Monitoring Compounds	R.T.	QIon	Response	Conc	Units	Dev(Min)
33) 1,2-Dichloroethane-d4	8.03	65	240202	55.49	ug/l	0.00
Spiked Amount			Recovery	=	110.98%	
35) Dibromofluoromethane	7.59	113	183339	50.61	ug/l	0.00
Spiked Amount			Recovery	=	101.22%	
50) Toluene-d8	10.09	98	638757	48.83	ug/l	0.00
Spiked Amount			Recovery	=	97.66%	
62) 4-Bromofluorobenzene	12.40	95	214671	52.51	ug/l	0.00
Spiked Amount			Recovery	=	105.02%	

Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
2) Dichlorodifluoromethane	1.85	85	72189	17.807	ug/l	100
3) Chloromethane	2.06	50	82186	16.373	ug/l	99
4) Vinyl Chloride	2.19	62	70904	17.523	ug/l	98
5) Bromomethane	2.56	94	40121	18.719	ug/l	96
6) Chloroethane	2.71	64	41131	18.764	ug/l	97
7) Trichlorofluoromethane	3.02	101	111221	19.330	ug/l	98
8) Diethyl Ether	3.42	74	43972	21.844	ug/l	99
9) 1,1,2-Trichlorotrifluoroet	3.76	101	65320	19.065	ug/l	99
10) Methyl Iodide	3.96	142	83666	17.351	ug/l	99
11) Tert butyl alcohol	4.80	59	38562	155.605	ug/l	96
12) 1,1-Dichloroethene	3.74	96	60950	18.648	ug/l	99
13) Acrolein	3.62	56	11449	59.156	ug/l	99
14) Allyl chloride	4.33	41	134794	19.913	ug/l	99
15) Acrylonitrile	5.00	53	180933	129.890	ug/l	99
16) Acetone	3.82	43	139325	103.302	ug/l	98
17) Carbon Disulfide	4.06	76	127649	14.965	ug/l	99
18) Methyl Acetate	4.33	43	94666	28.365	ug/l	98
19) Methyl tert-butyl Ether	5.05	73	215054	23.405	ug/l	100
20) Methylene Chloride	4.56	84	79455	19.301	ug/l	96
21) trans-1,2-Dichloroethene	5.04	96	64273	18.568	ug/l	97
22) Diisopropyl ether	5.96	45	299927	22.300	ug/l	94
23) Vinyl Acetate	5.90	43	1025283	116.311	ug/l	100
24) 1,1-Dichloroethane	5.85	63	148931	20.782	ug/l	100
25) 2-Butanone	6.84	43	228444	132.444	ug/l	97
26) 2,2-Dichloropropane	6.83	77	82861	16.744	ug/l	100
27) cis-1,2-Dichloroethene	6.83	96	81908	20.808	ug/l	98
28) Bromochloromethane	7.20	49	77895	21.564	ug/l	98
29) Tetrahydrofuran	7.22	42	156533	141.728	ug/l	98
30) Chloroform	7.37	83	142087	20.916	ug/l	97
31) Cyclohexane	7.66	56	124384	18.269	ug/l #	93
32) 1,1,1-Trichloroethane	7.57	97	112234	20.357	ug/l	98
36) 1,1-Dichloropropene	7.80	75	90835	17.183	ug/l	98
37) Ethyl Acetate	6.93	43	94164	23.241	ug/l	98
38) Carbon Tetrachloride	7.78	117	91627	17.968	ug/l	98

Data Path : Z:\VOASRV\HPCHEM1\MSVOA N\DATA\VN050719\
 Data File : VN055452.D
 Acq On : 7 May 2019 22:13
 Operator : JC/SP
 Sample : VN0507MBS02
 Misc : 5.00µg/10mL/100µL/5.00mL/MSVOA_N/MEOH
 ALS Vial : 27 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleID :
 VN0507MBS02

Manual Integrations
 APPROVED

MMDadoda
 5/8/2019 10:16:23 AM

Quant Time: May 08 07:41:55 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_N\METHODS\82N042919W.M
 Quant Title : SW846 8260
 QLast Update : Tue Apr 30 07:16:52 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
39) Methylcyclohexane	9.08	83	101252	18.015	ug/l	98
40) Benzene	8.04	78	298237	19.137	ug/l	100
41) Methacrylonitrile	7.17	41	53593	24.819	ug/l #	70
42) 1,2-Dichloroethane	8.13	62	112823	20.441	ug/l	100
43) Isopropyl Acetate	8.17	43	165158	25.366	ug/l #	89
44) Trichloroethene	8.84	130	72164	18.165	ug/l	98
45) 1,2-Dichloropropane	9.12	63	90491	20.133	ug/l	99
46) Dibromomethane	9.21	93	49854	20.292	ug/l	97
47) Bromodichloromethane	9.40	83	107969	20.485	ug/l	96
48) Methyl methacrylate	9.20	41	76915	24.029	ug/l	99
49) 1,4-Dioxane	9.20	88	18644	563.457	ug/l	97
51) 4-Methyl-2-Pentanone	9.99	43	485529	132.446	ug/l	98
52) Toluene	10.16	92	172070	19.244	ug/l	98
53) t-1,3-Dichloropropene	10.38	75	92199	20.151	ug/l	93
54) cis-1,3-Dichloropropene	9.84	75	110981	19.454	ug/l	95
55) 1,1,2-Trichloroethane	10.56	97	72171	21.736	ug/l	98
56) Ethyl methacrylate	10.43	69	96905	23.711	ug/l	99
57) 1,3-Dichloropropane	10.71	76	123717	21.239	ug/l	100
58) 2-Chloroethyl Vinyl ether	9.70	63	104941	91.037	ug/l	99
59) 2-Hexanone	10.75	43	313421	136.646	ug/l	98
60) Dibromochloromethane	10.90	129	71209	20.983	ug/l	99
61) 1,2-Dibromoethane	11.01	107	66735	21.745	ug/l	99
64) Tetrachloroethene	10.63	164	76254	20.326	ug/l	97
65) Chlorobenzene	11.43	112	177858	19.830	ug/l	100
66) 1,1,1,2-Tetrachloroethane	11.51	131	69017	19.652	ug/l	99
67) Ethyl Benzene	11.51	91	318196	19.646	ug/l	99
68) m/p-Xylenes	11.62	106	232769	40.263	ug/l	100
69) o-Xylene	11.95	106	117691	20.539	ug/l	100
70) Styrene	11.97	104	187885	21.355	ug/l	100
71) Bromoform	12.13	173	43912	22.533	ug/l #	99
73) Isopropylbenzene	12.25	105	320296	20.576	ug/l	99
74) N-amyl acetate	12.07	43	112370	24.405	ug/l	100
75) 1,1,2,2-Tetrachloroethane	12.50	83	91701	24.153	ug/l	97
76) 1,2,3-Trichloropropane	12.55	75	81732m	23.158	ug/l	
77) Bromobenzene	12.53	156	74525	20.473	ug/l	96
78) n-propylbenzene	12.59	91	343689	18.649	ug/l	99
79) 2-Chlorotoluene	12.67	91	216034	20.656	ug/l	100
80) 1,3,5-Trimethylbenzene	12.73	105	266340	18.936	ug/l	100
81) trans-1,4-Dichloro-2-buten	12.30	75	20233	21.372	ug/l	95
82) 4-Chlorotoluene	12.77	91	198984	18.570	ug/l	99
83) tert-Butylbenzene	12.99	119	236304	22.113	ug/l	99
84) 1,2,4-Trimethylbenzene	13.04	105	245489	19.516	ug/l	100
85) sec-Butylbenzene	13.17	105	298967	19.557	ug/l	99
86) p-Isopropyltoluene	13.29	119	247556	19.702	ug/l	100
87) 1,3-Dichlorobenzene	13.28	146	116313	19.374	ug/l	99
88) 1,4-Dichlorobenzene	13.36	146	111816	19.778	ug/l	99
89) n-Butylbenzene	13.62	91	173869	19.474	ug/l	98
90) Hexachloroethane	13.87	117	41931	20.135	ug/l	99
91) 1,2-Dichlorobenzene	13.65	146	124403	20.907	ug/l	99
92) 1,2-Dibromo-3-Chloropropan	14.27	75	13531	28.668	ug/l	99

Data Path : Z:\VOASRV\HPCHEM1\MSVOA N\DATA\VN050719\
Data File : VN055452.D
Acq On : 7 May 2019 22:13
Operator : JC/SP
Sample : VN0507MBS02
Misc : 5.00µ/10mL/100uL/5.00mL/MSVOA_N/MEOH
ALS Vial : 27 Sample Multiplier: 1

Instrument :
MSVOA_N
ClientSampleId :
VN0507MBS02

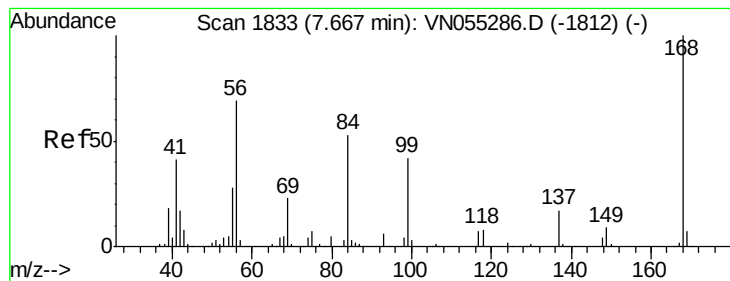
Manual Integrations
APPROVED

MMDadoda
5/8/2019 10:16:23 AM

Quant Time: May 08 07:41:55 2019
Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_N\METHODS\82N042919W.M
Quant Title : SW846 8260
QLast Update : Tue Apr 30 07:16:52 2019
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
93) 1,2,4-Trichlorobenzene	14.91	180	36470	17.828	ug/l	98
94) Hexachlorobutadiene	15.01	225	43994	23.063	ug/l	96
95) Naphthalene	15.13	128	82086	18.693	ug/l	99
96) 1,2,3-Trichlorobenzene	15.31	180	41291	19.553	ug/l	95

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



#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 7.67 min Scan# 1834

Delta R.T. 0.00 min

Lab File: VN055452.D

Acq: 7 May 2019 22:13

Instrument :

MSVOA_N

ClientSampled :

VN0507MBS02

Tot Ion:168 Resp: 330870

Ion Ratio Lower Upper

168 100

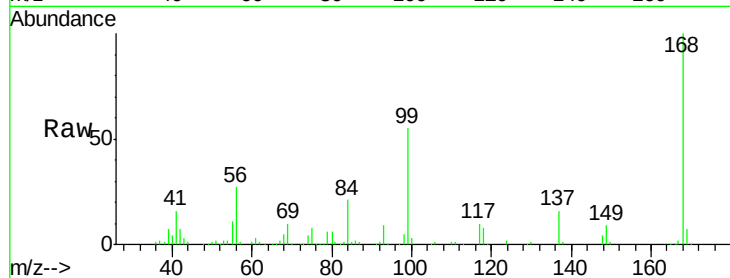
99 54.0 43.6 65.4

Manual Integrations

APPROVED

MMDadoda

5/8/2019 10:16:23 AM



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VNO

7.67

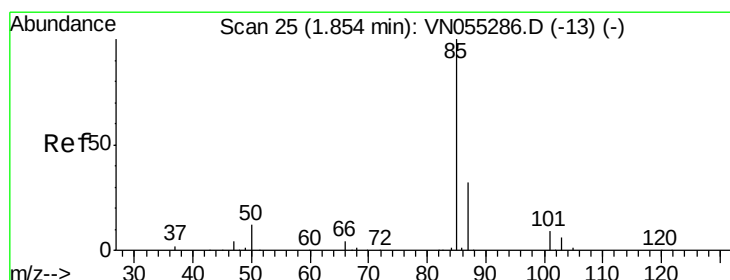
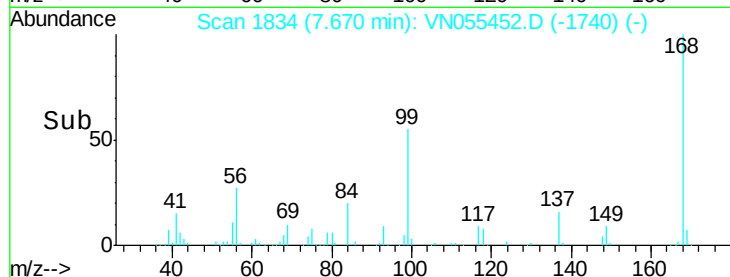
150000

100000

50000

0

Time-->



#2

Dichlorodifluoromethane

Concen: 17.807 ug/l

RT: 1.85 min Scan# 24

Delta R.T. -0.00 min

Lab File: VN055452.D

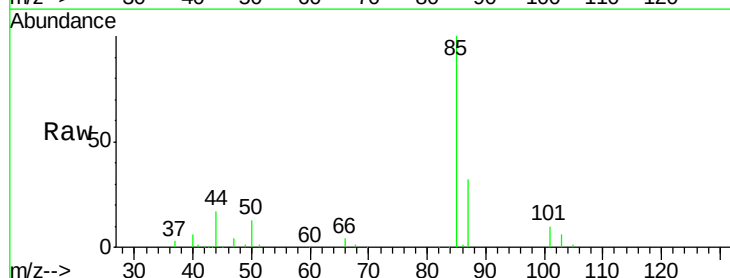
Acq: 7 May 2019 22:13

Tgt Ion: 85 Resp: 72189

Ion Ratio Lower Upper

85 100

87 32.0 16.1 48.3



Abundance Ion 84.90 (84.60 to 85.60): VNO

Ion 86.90 (86.60 to 87.60): VNO

1.85

60000

50000

40000

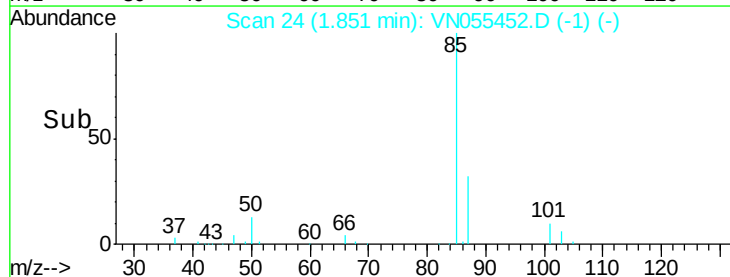
30000

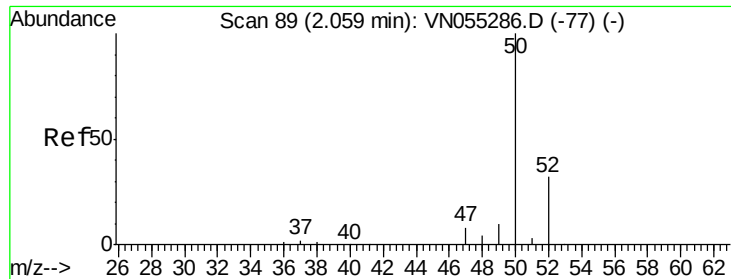
20000

10000

0

Time-->





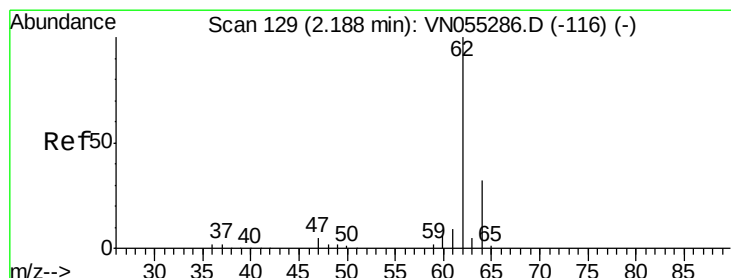
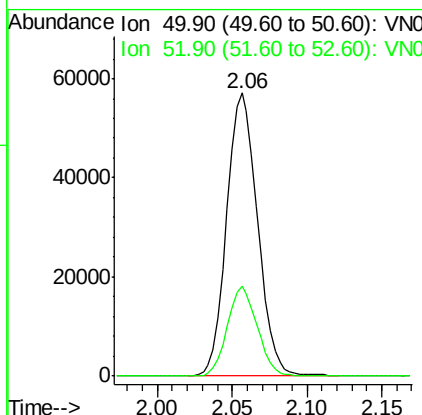
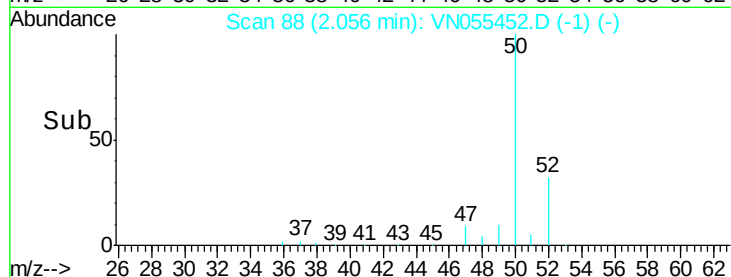
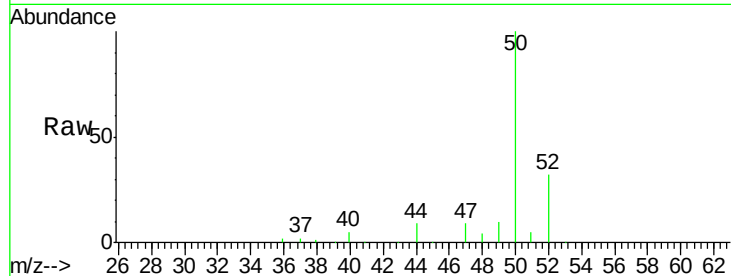
#3
 Chloromethane
 Concen: 16.373 ug/l
 RT: 2.06 min Scan# 88
 Delta R.T. -0.00 min
 Lab File: VN055452.D
 Acq: 7 May 2019 22:13

Instrument :
 MSVOA_N
 ClientSampleId :
 VN0507MBS02

Tot Ion: 50 Resp: 82186
 Ion Ratio Lower Upper
 50 100
 52 31.7 25.7 38.5

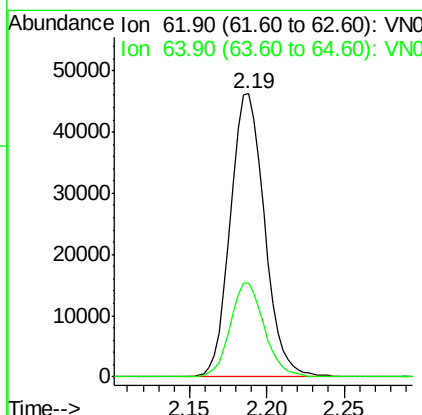
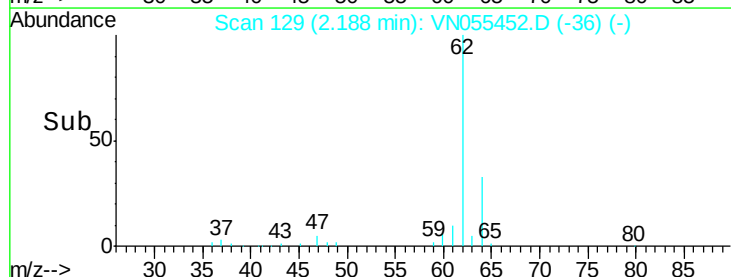
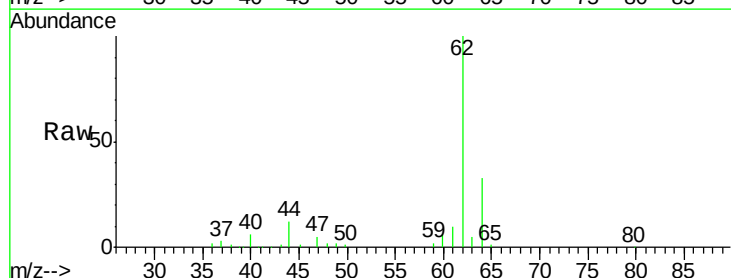
Manual Integrations
 APPROVED

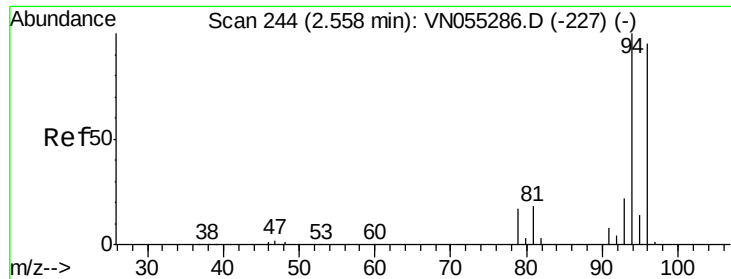
MMDadoda
 5/8/2019 10:16:23 AM



#4
 Vinyl Chloride
 Concen: 17.523 ug/l
 RT: 2.19 min Scan# 129
 Delta R.T. 0.00 min
 Lab File: VN055452.D
 Acq: 7 May 2019 22:13

Tgt Ion: 62 Resp: 70904
 Ion Ratio Lower Upper
 62 100
 64 33.1 25.5 38.3





#5

Bromomethane

Concen: 18.719 ug/l

RT: 2.56 min Scan# 246

Delta R.T. 0.01 min

Lab File: VN055452.D

Acq: 7 May 2019 22:13

Instrument :

MSVOA_N

ClientSampleId :

VN0507MBS02

Tot Ion: 94 Resp: 40121

Ion Ratio Lower Upper

94 100

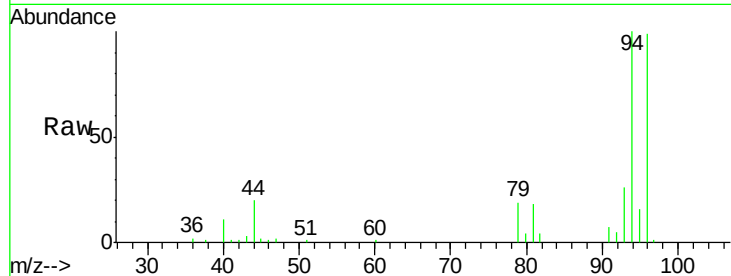
96 99.3 76.0 114.0

Manual Integrations

APPROVED

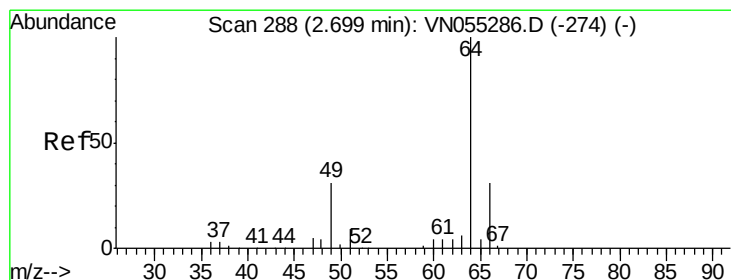
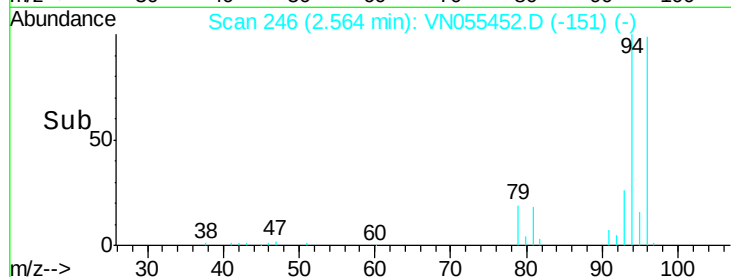
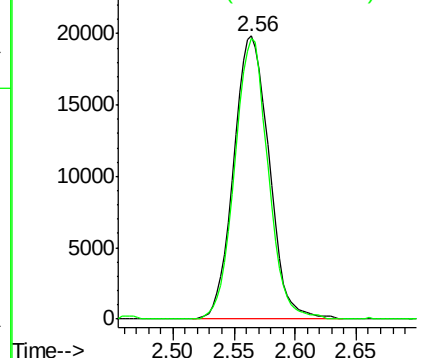
MMDadoda

5/8/2019 10:16:23 AM



Abundance Ion 93.90 (93.60 to 94.60): VN0

Ion 95.90 (95.60 to 96.60): VN0



#6

Chloroethane

Concen: 18.764 ug/l

RT: 2.71 min Scan# 290

Delta R.T. 0.01 min

Lab File: VN055452.D

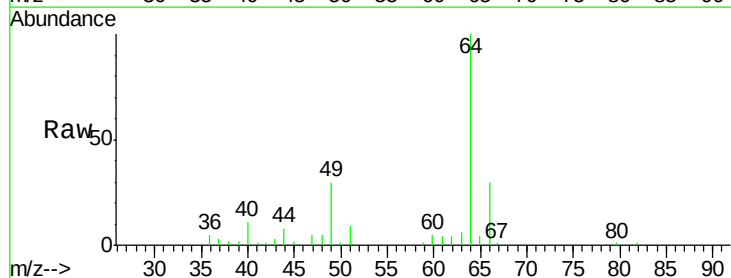
Acq: 7 May 2019 22:13

Tgt Ion: 64 Resp: 41131

Ion Ratio Lower Upper

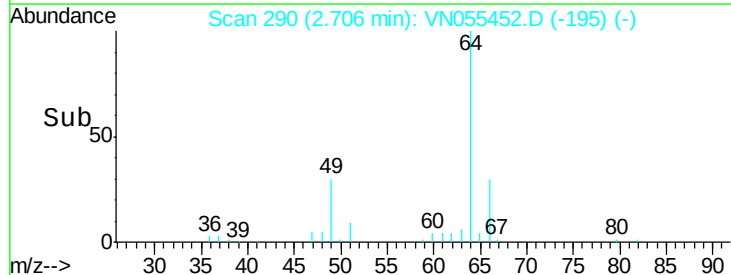
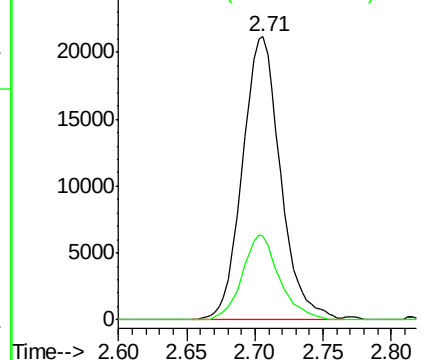
64 100

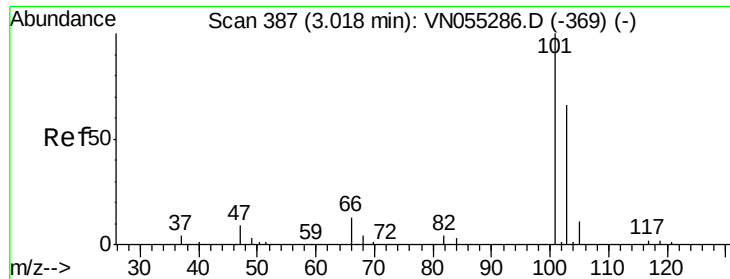
66 29.7 25.0 37.4



Abundance Ion 63.90 (63.60 to 64.60): VN0

Ion 65.90 (65.60 to 66.60): VN0





#7

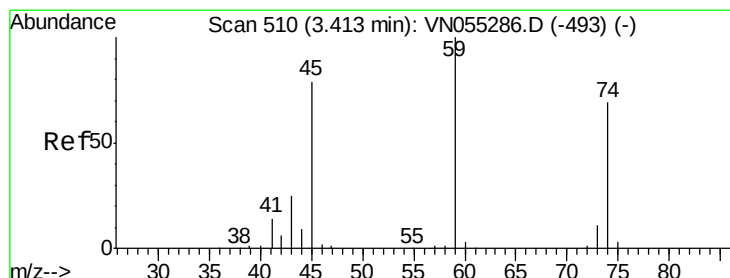
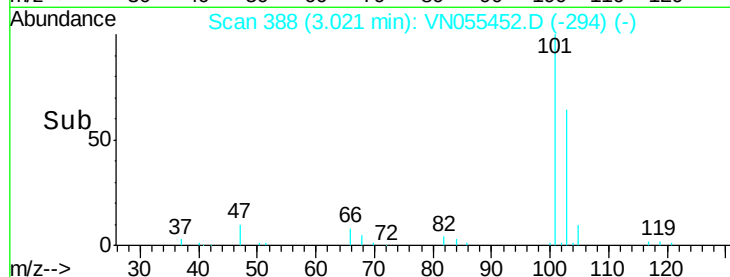
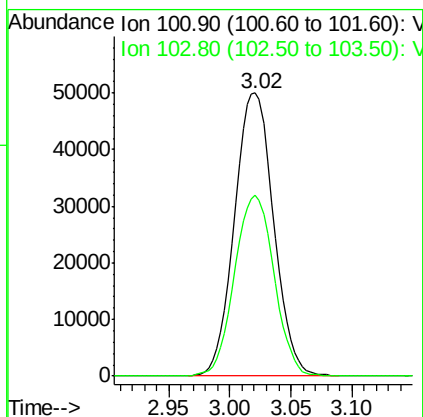
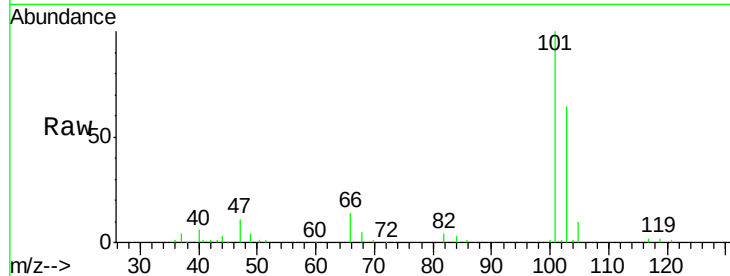
Trichlorofluoromethane
Concen: 19.330 ug/l
RT: 3.02 min Scan# 388
Delta R.T. 0.00 min
Lab File: VN055452.D
Acq: 7 May 2019 22:13

Instrument :
MSVOA_N
ClientSampled :
VN0507MBS02

Tot Ion	Ratio	Lower	Upper
101	100		
103	63.9	52.6	79.0

Manual Integrations
APPROVED

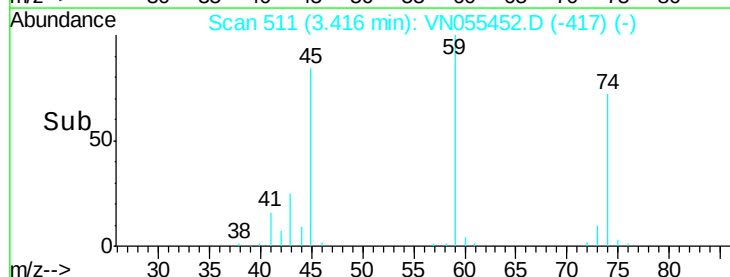
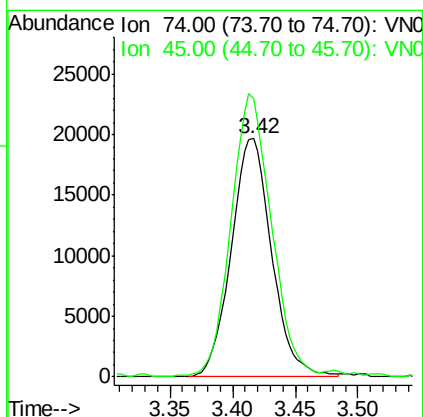
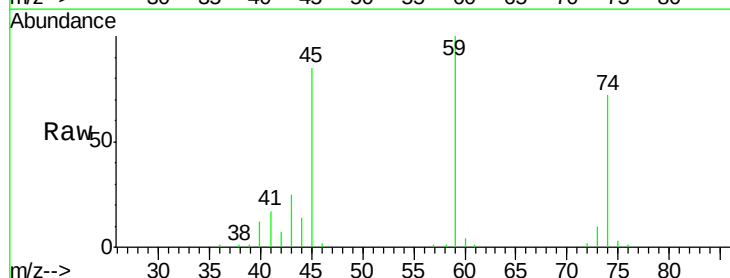
MMDadoda
5/8/2019 10:16:23 AM

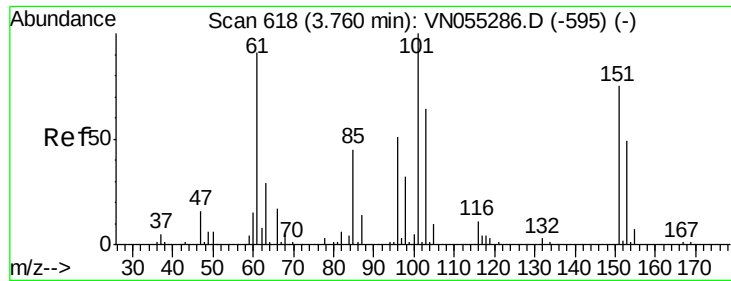


#8

Diethyl Ether
Concen: 21.844 ug/l
RT: 3.42 min Scan# 511
Delta R.T. 0.00 min
Lab File: VN055452.D
Acq: 7 May 2019 22:13

Tgt Ion	Ratio	Lower	Upper
74	100		
45	116.5	58.9	176.6





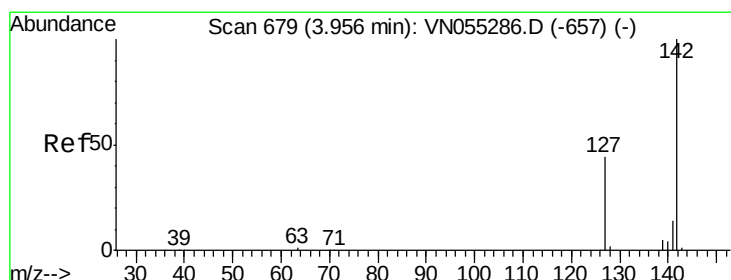
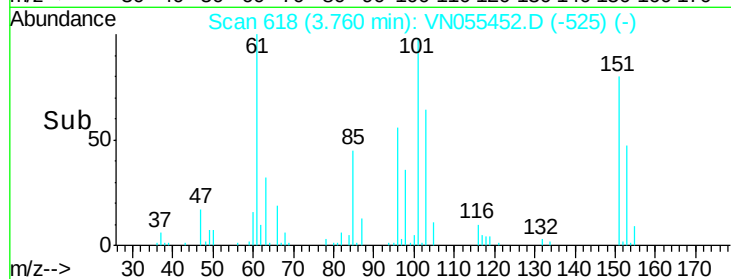
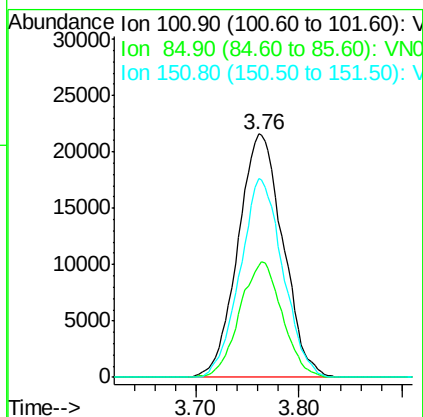
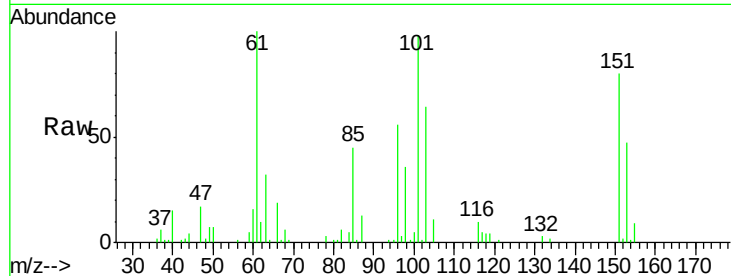
#9
1,1,2-Trichlorotrifluoroethane
Concen: 19.065 ug/l
RT: 3.76 min Scan# 618
Delta R.T. 0.00 min
Lab File: VN055452.D
Acq: 7 May 2019 22:13

Instrument :
MSVOA_N
ClientSampled :
VN0507MBS02

Tot Ion	Ratio	Lower	Upper
101	100		
85	44.8	35.7	53.5
151	77.6	63.3	94.9

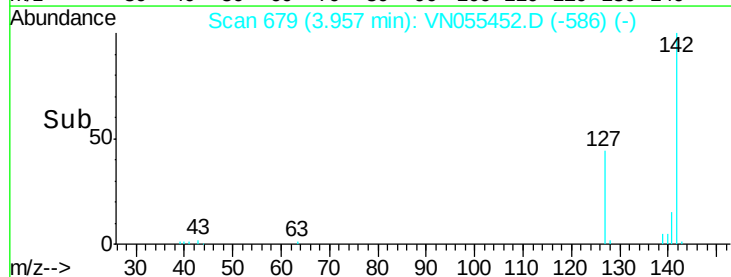
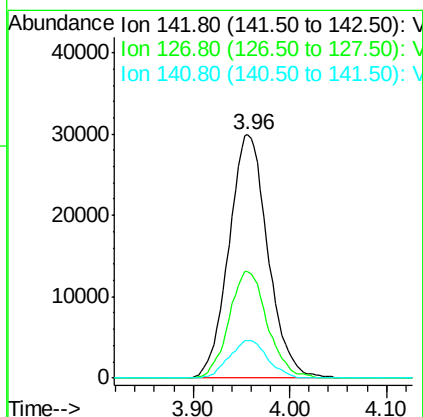
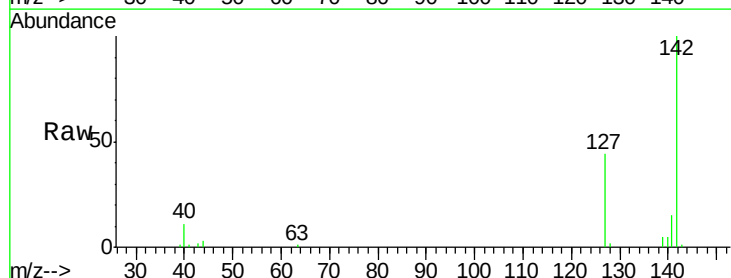
Manual Integrations
APPROVED

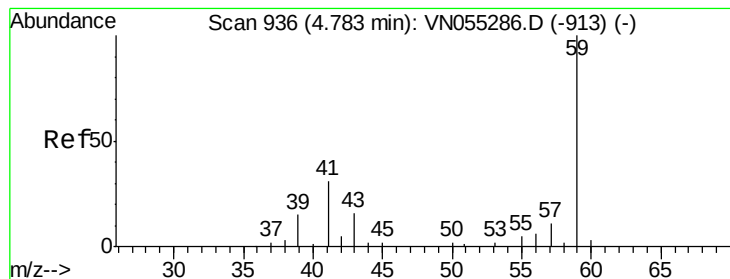
MMDadoda
5/8/2019 10:16:23 AM



#10
Methyl Iodide
Concen: 17.351 ug/l
RT: 3.96 min Scan# 679
Delta R.T. 0.00 min
Lab File: VN055452.D
Acq: 7 May 2019 22:13

Tgt Ion	Ratio	Lower	Upper
142	100		
127	43.2	34.4	51.6
141	15.2	11.5	17.3





#11

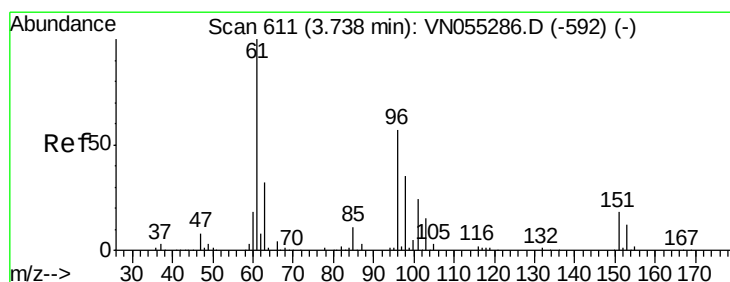
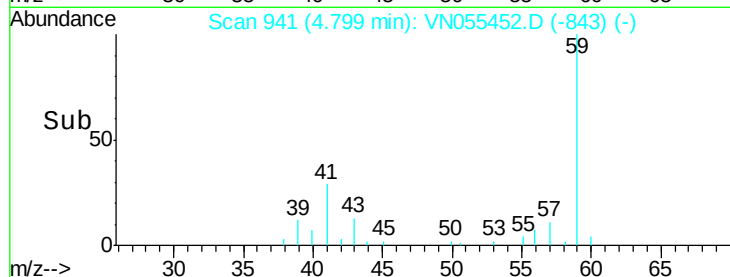
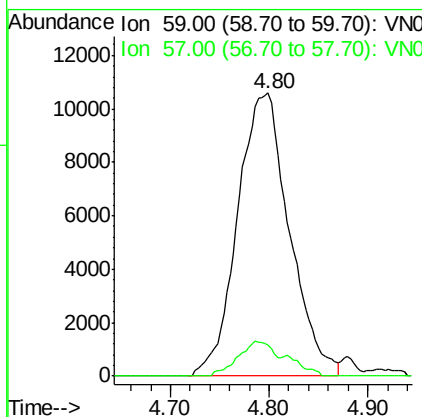
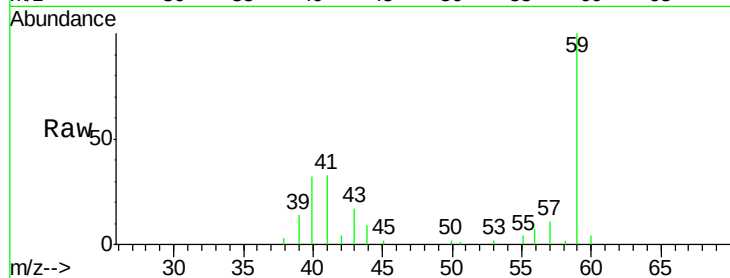
Tert butyl alcohol
 Concen: 155.605 ug/l
 RT: 4.80 min Scan# 941
 Delta R.T. 0.02 min
 Lab File: VN055452.D
 Acq: 7 May 2019 22:13

Instrument :
 MSVOA_N
 ClientSampled :
 VN0507MBS02

Tot Ion	59	57	Ratio	100	8.6	Resp:	38562	Lower	8.2	Upper	12.2
Ion	59	57	Ratio	100	8.6	Resp:	38562	Lower	8.2	Upper	12.2

Manual Integrations
 APPROVED

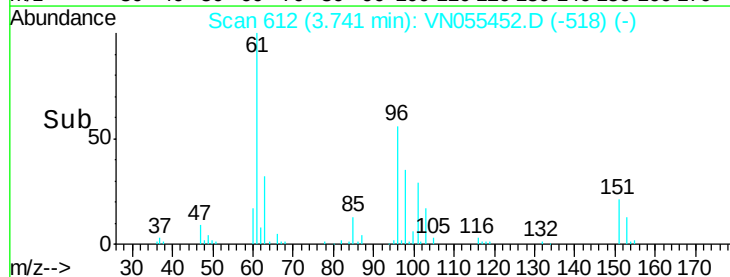
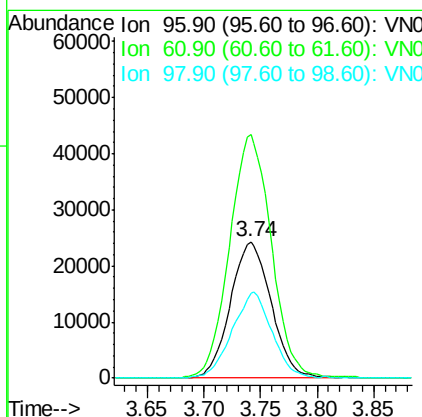
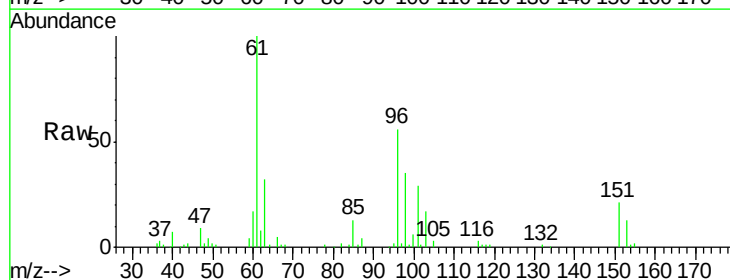
MMDadoda
 5/8/2019 10:16:23 AM

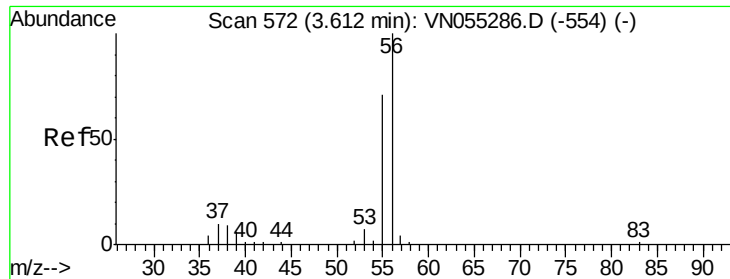


#12

1,1-Dichloroethene
 Concen: 18.648 ug/l
 RT: 3.74 min Scan# 612
 Delta R.T. 0.00 min
 Lab File: VN055452.D
 Acq: 7 May 2019 22:13

Tgt Ion	96	61	98	Ratio	100	177.3	62.3	Resp:	60950	Lower	140.9	50.0	Upper	211.3	75.0
Ion	96	61	98	Ratio	100	177.3	62.3	Resp:	60950	Lower	140.9	50.0	Upper	211.3	75.0





#13

Acrolein

Concen: 59.156 ug/l

RT: 3.62 min Scan# 573

Delta R.T. 0.00 min

Lab File: VN055452.D

Acq: 7 May 2019 22:13

Instrument :

MSVOA_N

ClientSampled :

VN0507MBS02

Tot Ion: 56 Resp: 11449

Ion Ratio Lower Upper

56 100

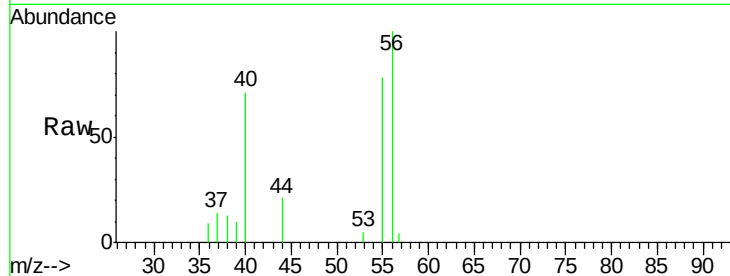
55 72.5 57.4 86.2

Manual Integrations

APPROVED

MMDadoda

5/8/2019 10:16:23 AM



Abundance Ion 56.00 (55.70 to 56.70): VN0

Ion 55.00 (54.70 to 55.70): VN0

3.62

4000

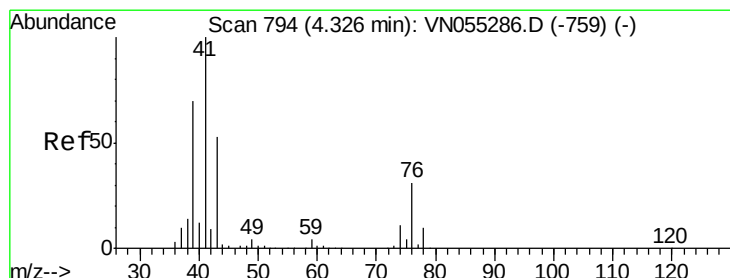
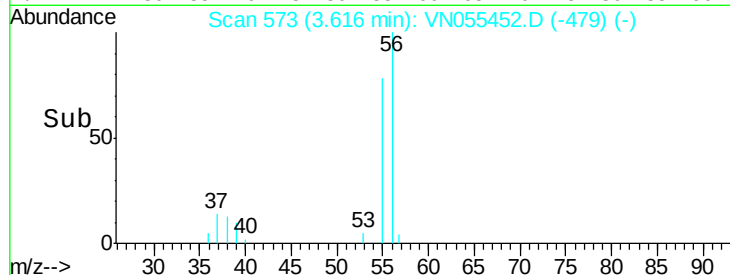
3000

2000

1000

0

Time-->



#14

Allyl chloride

Concen: 19.913 ug/l

RT: 4.33 min Scan# 794

Delta R.T. 0.00 min

Lab File: VN055452.D

Acq: 7 May 2019 22:13

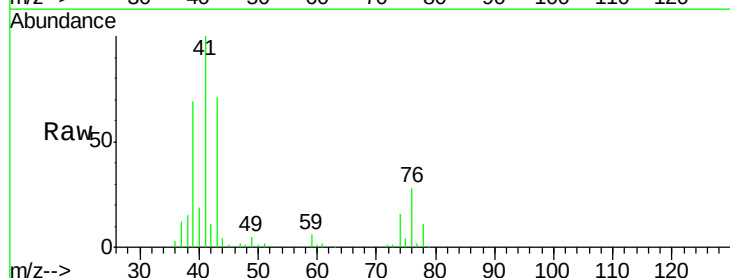
Tgt Ion: 41 Resp: 134794

Ion Ratio Lower Upper

41 100

39 66.1 53.0 79.6

76 27.3 22.7 34.1



Abundance Ion 41.00 (40.70 to 41.70): VN0

Ion 39.00 (38.70 to 39.70): VN0

Ion 75.90 (75.60 to 76.60): VN0

4.33

50000

40000

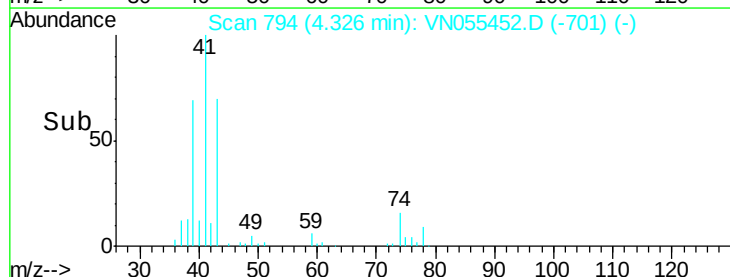
30000

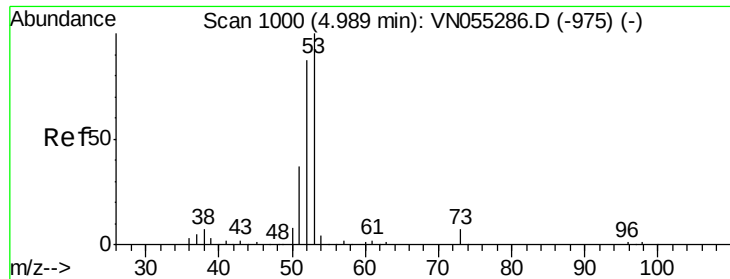
20000

10000

0

Time-->





#15

Acrylonitrile

Concen: 129.890 ug/l

RT: 5.00 min Scan# 1002

Delta R.T. 0.01 min

Lab File: VN055452.D

Acq: 7 May 2019 22:13

Instrument :

MSVOA_N

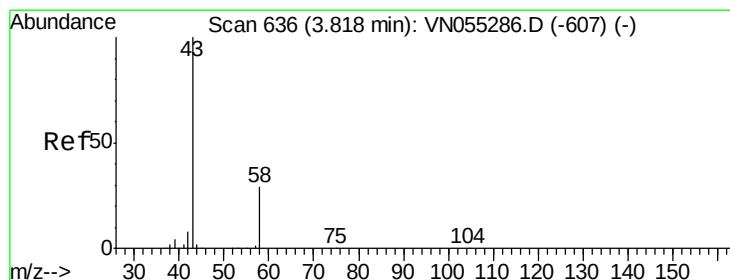
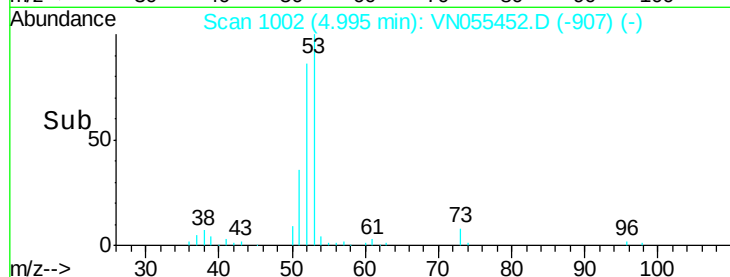
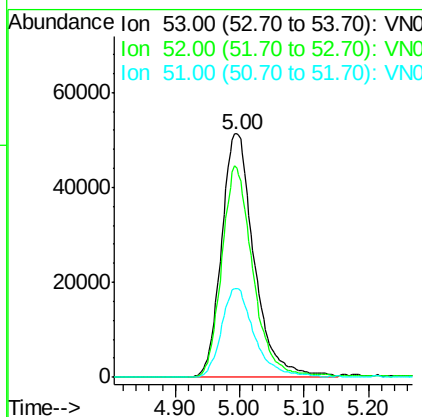
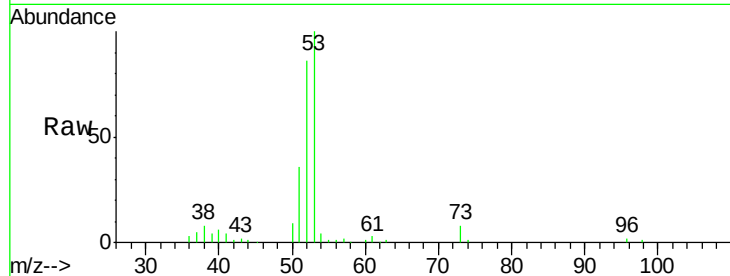
ClientSampled :

VN0507MBS02

Tot Ion:	53	Resp:	180933
Ion Ratio	Lower	Upper	
53	100		
52	82.3	66.5	99.7
51	36.4	29.6	44.4

Manual Integrations
APPROVED

MMDadoda
5/8/2019 10:16:23 AM



#16

Acetone

Concen: 103.302 ug/l

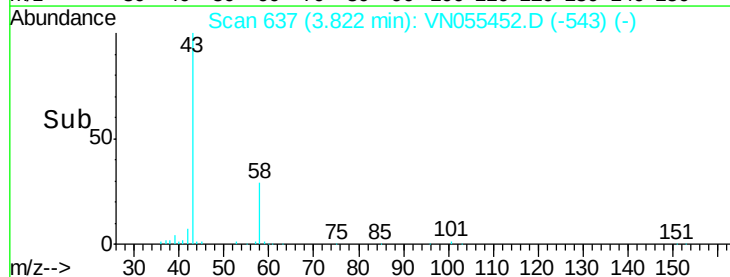
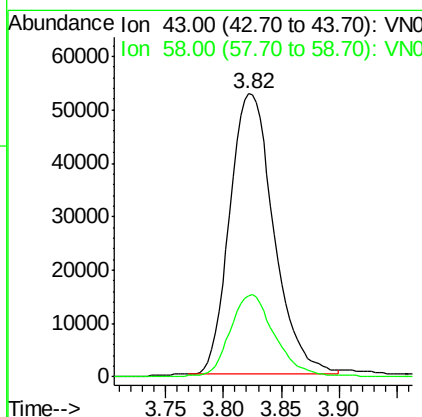
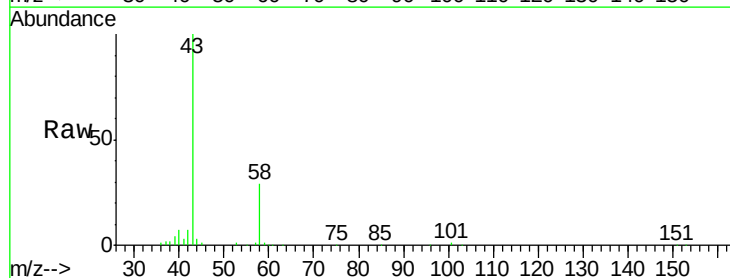
RT: 3.82 min Scan# 637

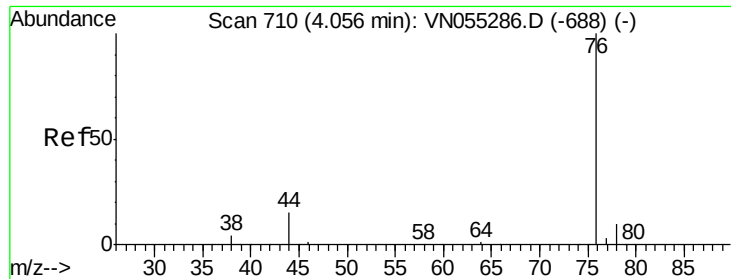
Delta R.T. 0.00 min

Lab File: VN055452.D

Acq: 7 May 2019 22:13

Tgt Ion:	43	Resp:	139325
Ion Ratio	Lower	Upper	
43	100		
58	28.5	23.6	35.4





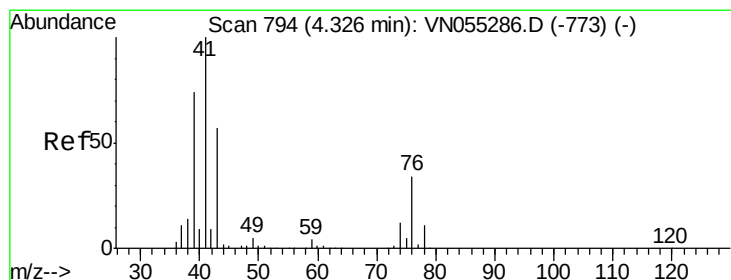
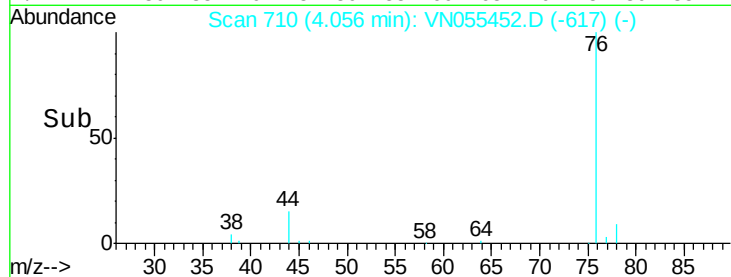
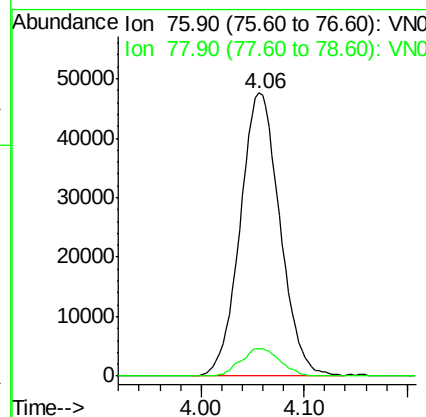
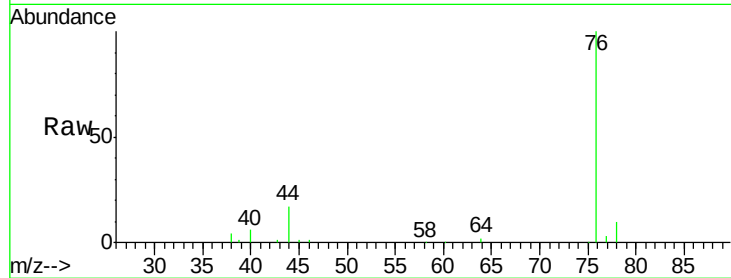
#17
Carbon Disulfide
Concen: 14.965 ug/l
RT: 4.06 min Scan# 710
Delta R.T. 0.00 min
Lab File: VN055452.D
Acq: 7 May 2019 22:13

Instrument :
MSVOA_N
ClientSampled :
VN0507MBS02

Tot Ion	Ratio	Lower	Upper
76	100		
78	9.7	7.6	11.4

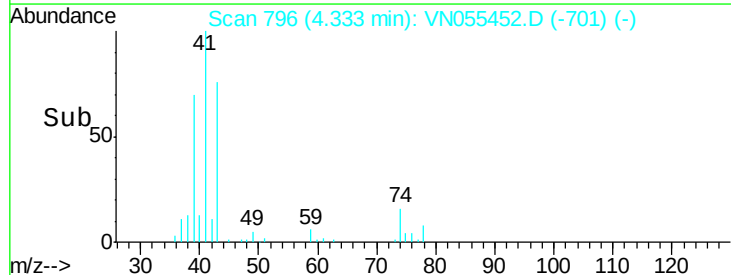
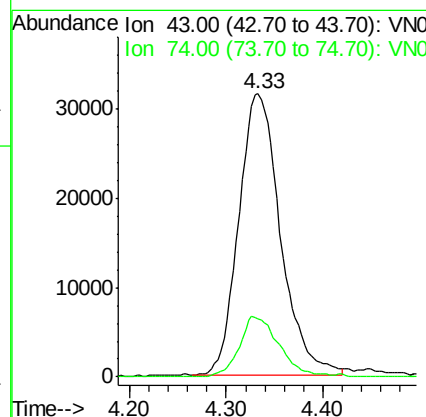
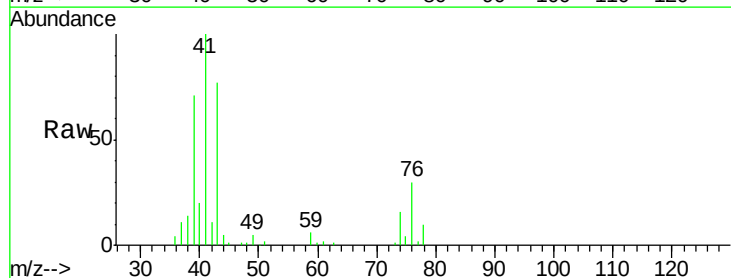
Manual Integrations
APPROVED

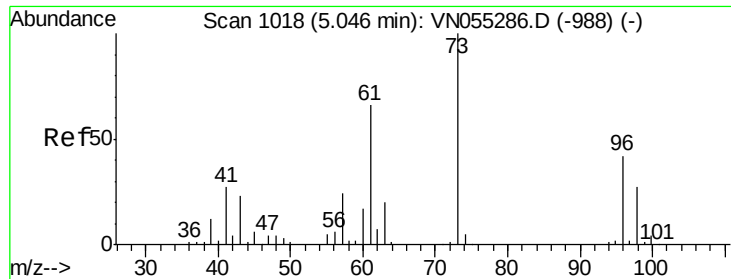
MMDadoda
5/8/2019 10:16:23 AM



#18
Methyl Acetate
Concen: 28.365 ug/l
RT: 4.33 min Scan# 796
Delta R.T. 0.01 min
Lab File: VN055452.D
Acq: 7 May 2019 22:13

Tgt Ion	Ratio	Lower	Upper
43	100		
74	20.5	15.8	23.8





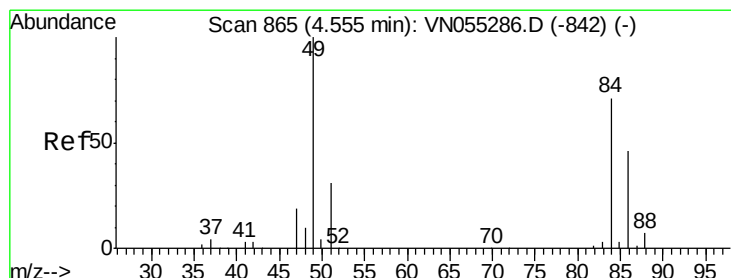
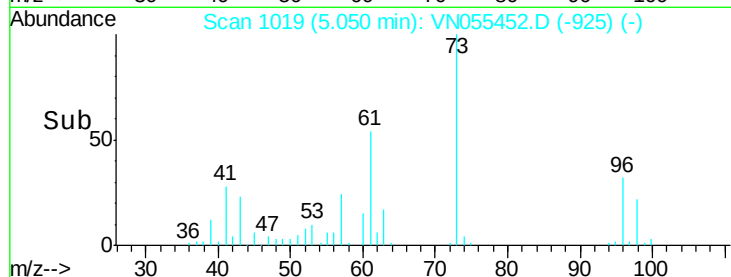
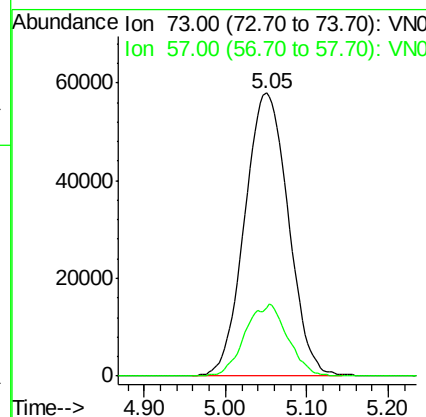
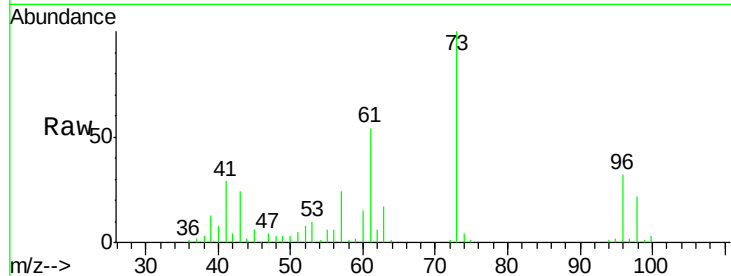
#19
Methyl tert-butyl Ether
Concen: 23.405 ug/l
RT: 5.05 min Scan# 1019
Delta R.T. 0.00 min
Lab File: VN055452.D
Acq: 7 May 2019 22:13

Instrument :
MSVOA_N
ClientSampled :
VN0507MBS02

Tot Ion: 73 Resp: 215054
Ion Ratio Lower Upper
73 100
57 23.9 19.1 28.7

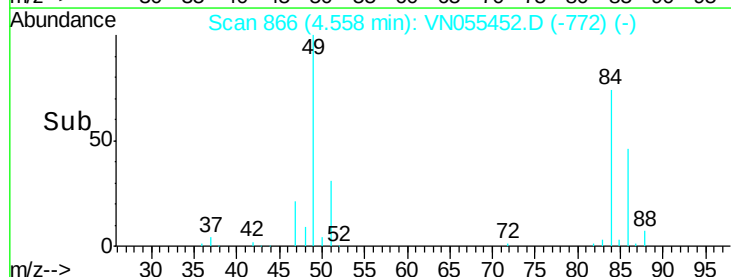
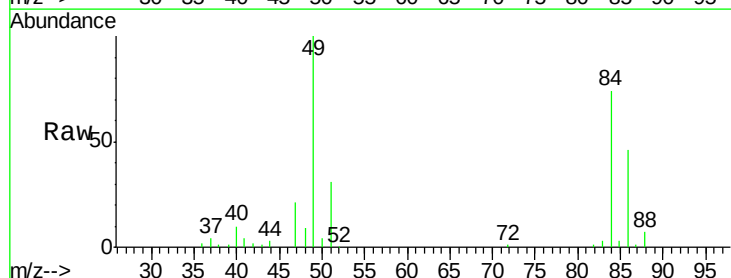
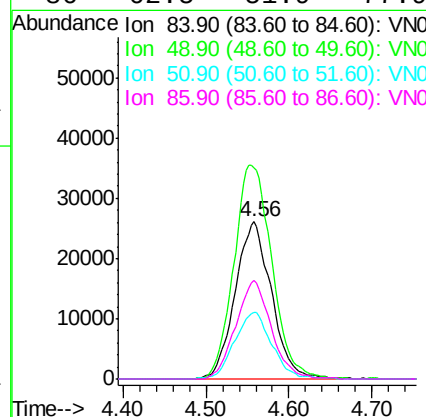
Manual Integrations
APPROVED

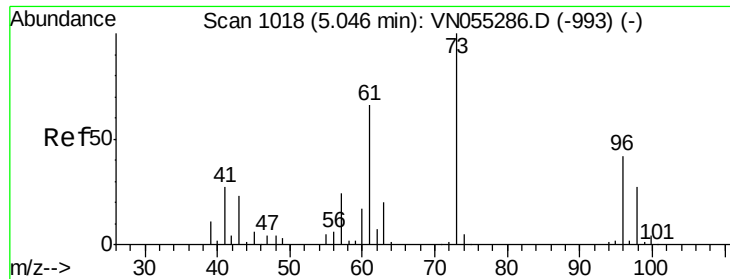
MMDadoda
5/8/2019 10:16:23 AM



#20
Methylene Chloride
Concen: 19.301 ug/l
RT: 4.56 min Scan# 866
Delta R.T. 0.00 min
Lab File: VN055452.D
Acq: 7 May 2019 22:13

Tgt Ion: 84 Resp: 79455
Ion Ratio Lower Upper
84 100
49 134.7 112.4 168.6
51 42.3 34.6 51.8
86 62.5 51.9 77.9





#21

trans-1,2-Dichloroethene

Concen: 18.568 ug/l

RT: 5.04 min Scan# 1017

Delta R.T. -0.00 min

Lab File: VN055452.D

Acq: 7 May 2019 22:13

Instrument :

MSVOA_N

ClientSampled :

VN0507MBS02

Tot Ion: 96 Resp: 64273

Ion Ratio Lower Upper

96 100

61 162.7 126.2 189.4

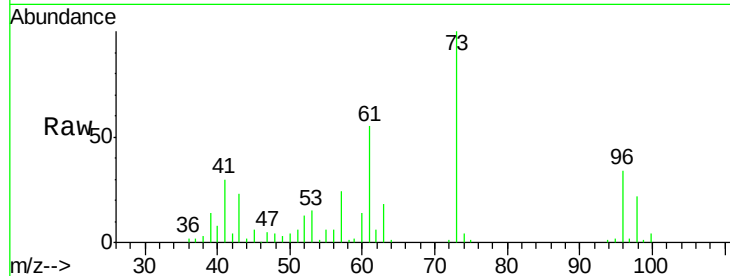
98 66.6 52.2 78.2

Manual Integrations

APPROVED

MMDadoda

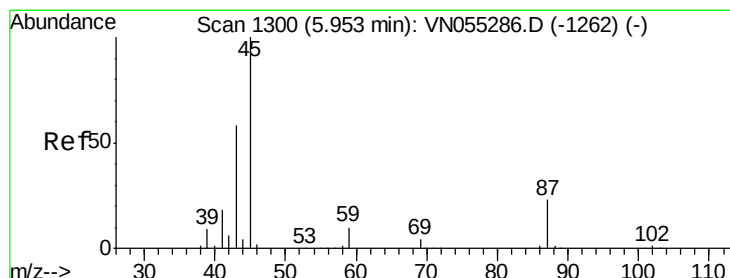
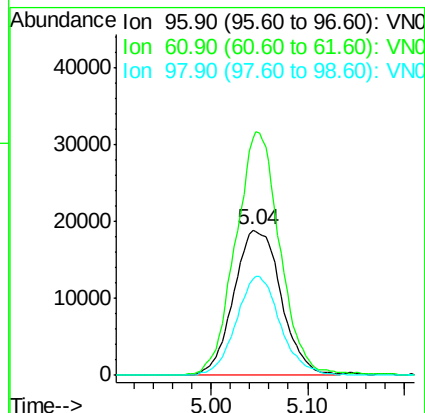
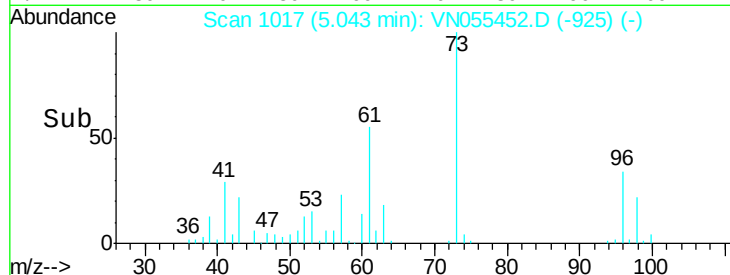
5/8/2019 10:16:23 AM



Abundance Ion 95.90 (95.60 to 96.60): VN0

Ion 60.90 (60.60 to 61.60): VN0

Ion 97.90 (97.60 to 98.60): VN0



#22

Diisopropyl ether

Concen: 22.300 ug/l

RT: 5.96 min Scan# 1301

Delta R.T. 0.00 min

Lab File: VN055452.D

Acq: 7 May 2019 22:13

Tgt Ion: 45 Resp: 299927

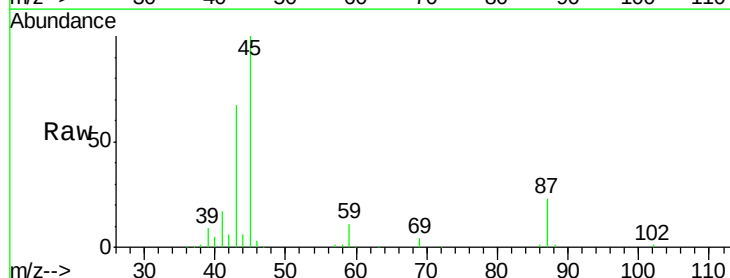
Ion Ratio Lower Upper

45 100

43 64.4 46.6 70.0

87 23.2 18.1 27.1

59 10.6 8.2 12.2

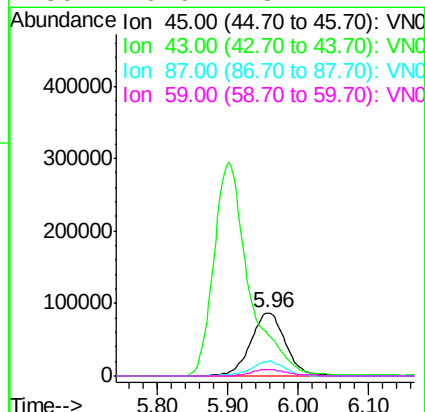
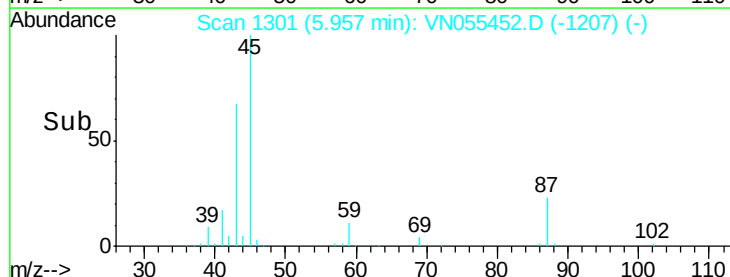


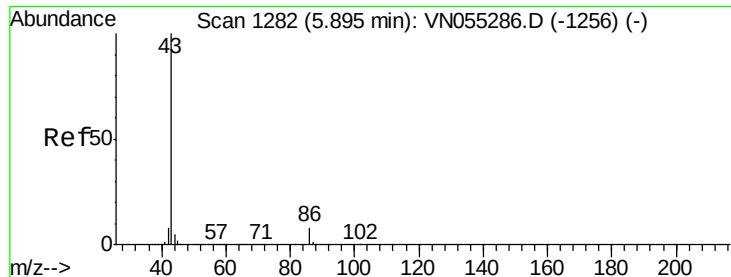
Abundance Ion 45.00 (44.70 to 45.70): VN0

Ion 43.00 (42.70 to 43.70): VN0

Ion 87.00 (86.70 to 87.70): VN0

Ion 59.00 (58.70 to 59.70): VN0





#23

Vinyl Acetate

Concen: 116.311 ug/l

RT: 5.90 min Scan# 1284

Delta R.T. 0.01 min

Lab File: VN055452.D

Acq: 7 May 2019 22:13

Instrument :

MSVOA_N

ClientSampled :

VN0507MBS02

Tot Ion: 43 Resp: 1025283

Ion Ratio Lower Upper

43 100

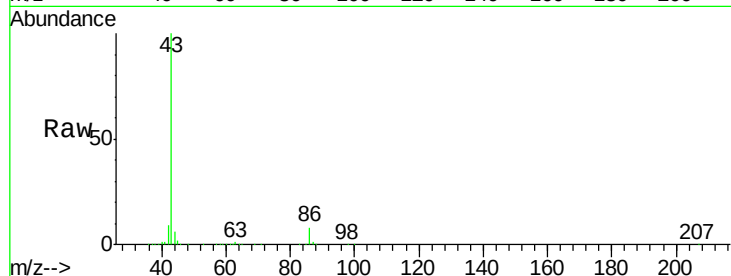
86 8.2 6.6 10.0

Manual Integrations

APPROVED

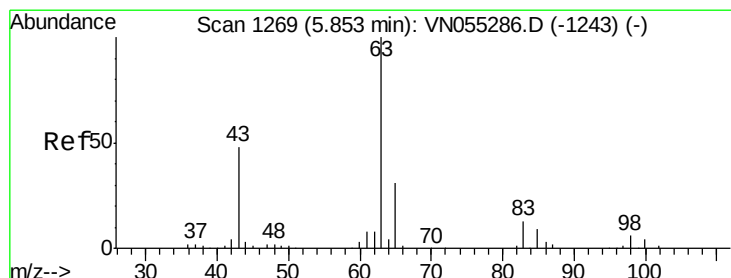
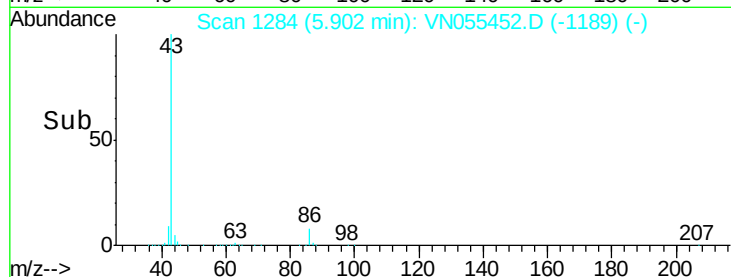
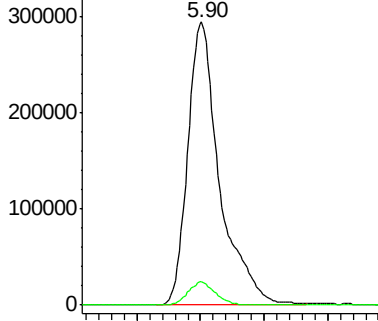
MMDadoda

5/8/2019 10:16:23 AM



Abundance Ion 43.00 (42.70 to 43.70): VN0

Ion 86.00 (85.70 to 86.70): VN0



#24

1,1-Dichloroethane

Concen: 20.782 ug/l

RT: 5.85 min Scan# 1269

Delta R.T. 0.00 min

Lab File: VN055452.D

Acq: 7 May 2019 22:13

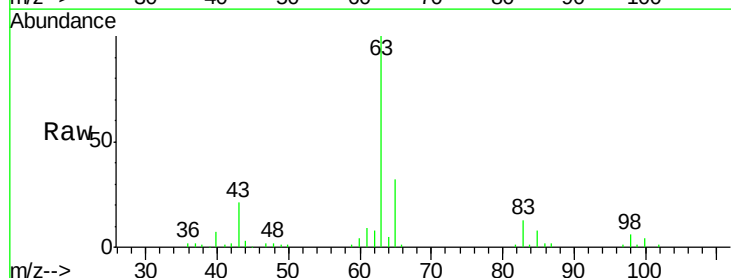
Tgt Ion: 63 Resp: 148931

Ion Ratio Lower Upper

63 100

98 5.9 3.0 9.0

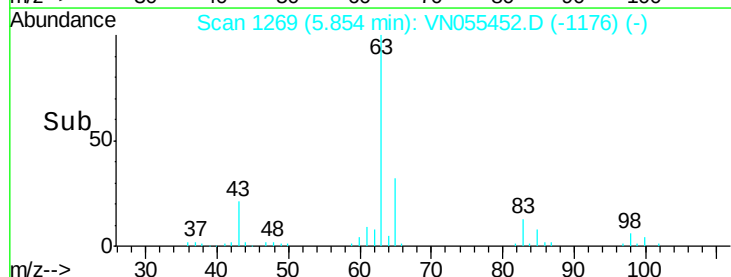
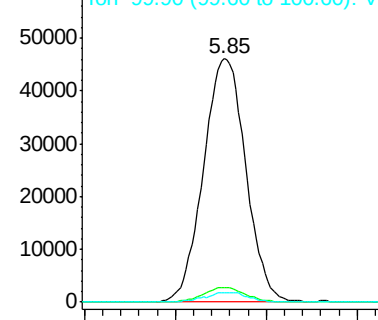
100 3.8 1.8 5.4

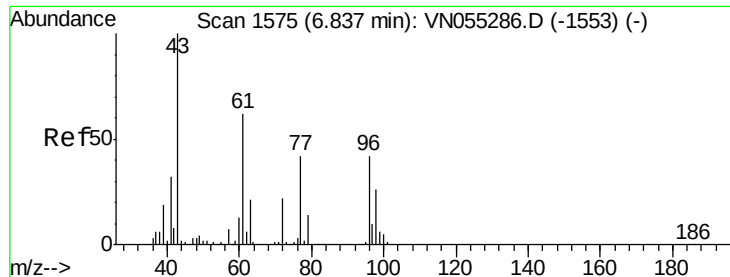


Abundance Ion 62.90 (62.60 to 63.60): VN0

Ion 97.90 (97.60 to 98.60): VN0

Ion 99.90 (99.60 to 100.60): VN0





#25

2-Butanone

Concen: 132.444 ug/l

RT: 6.84 min Scan# 1576

Delta R.T. 0.00 min

Lab File: VN055452.D

Acq: 7 May 2019 22:13

Instrument :

MSVOA_N

ClientSampled :

VN0507MBS02

Tot Ion: 43 Resp: 228444

Ion Ratio Lower Upper

43 100

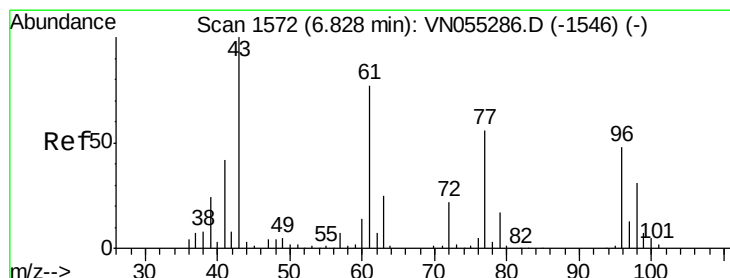
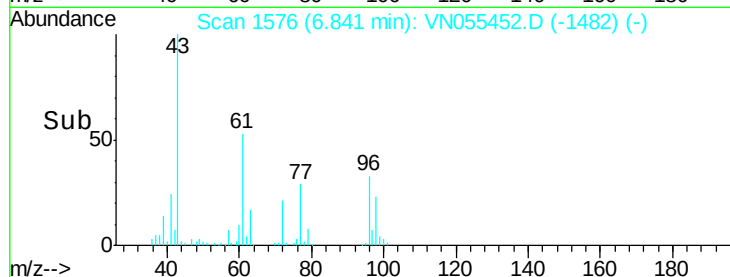
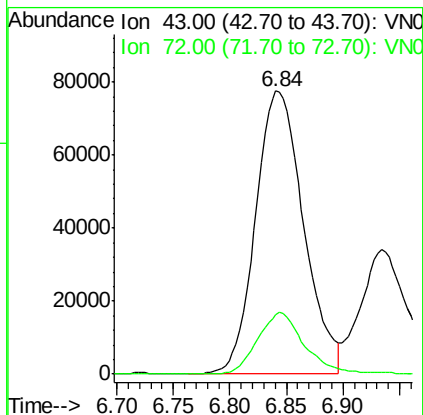
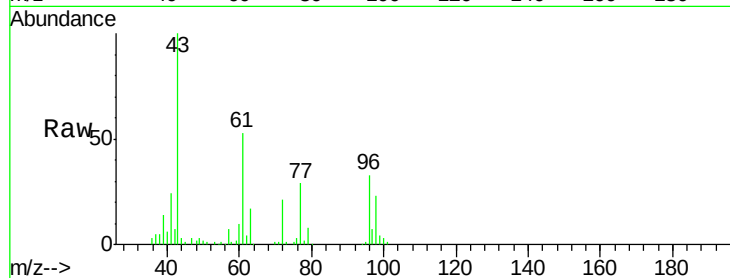
72 20.9 18.0 27.0

Manual Integrations

APPROVED

MMDadoda

5/8/2019 10:16:23 AM



#26

2,2-Dichloropropane

Concen: 16.744 ug/l

RT: 6.83 min Scan# 1573

Delta R.T. 0.00 min

Lab File: VN055452.D

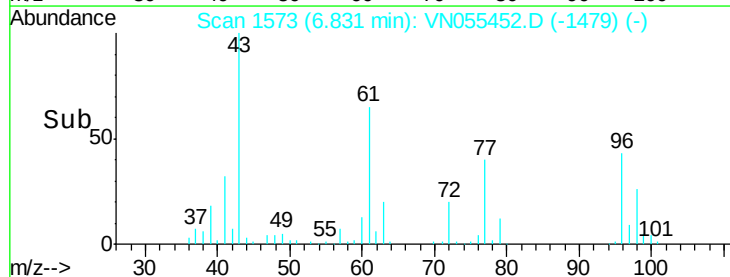
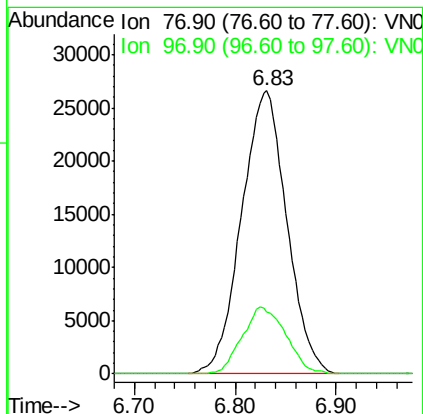
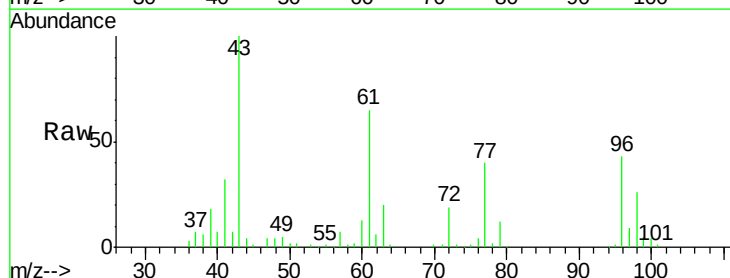
Acq: 7 May 2019 22:13

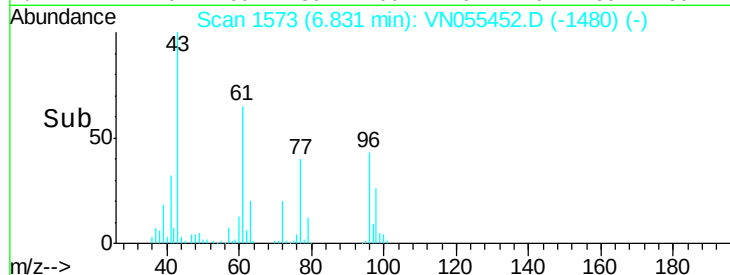
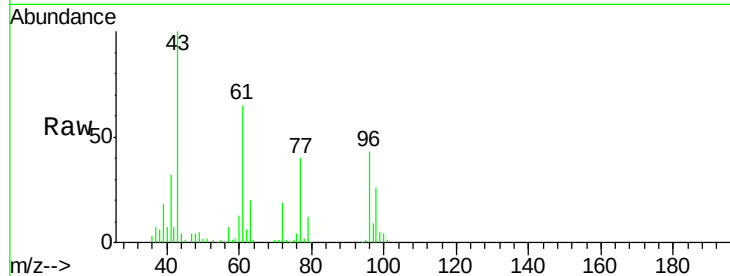
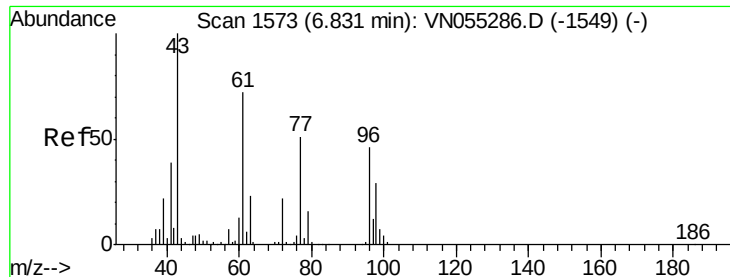
Tgt Ion: 77 Resp: 82861

Ion Ratio Lower Upper

77 100

97 22.9 11.4 34.2





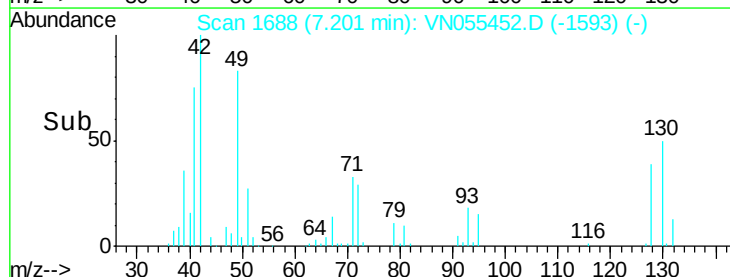
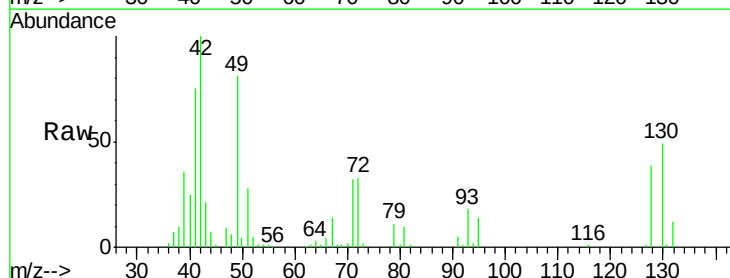
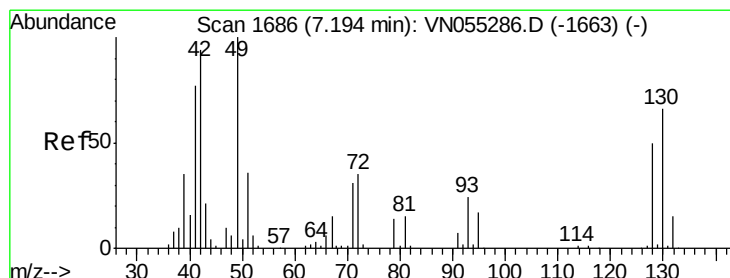
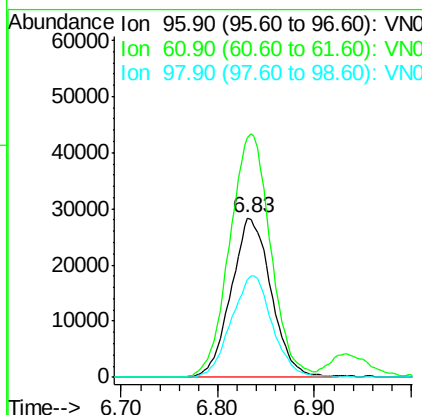
#27
 cis-1,2-Dichloroethene
 Concen: 20.808 ug/l
 RT: 6.83 min Scan# 1573
 Delta R.T. 0.00 min
 Lab File: VN055452.D
 Acq: 7 May 2019 22:13

Tot Ion	Ratio	Resp	Lower	Upper
96	100			
61	155.3	0.0	316.2	
98	64.6	0.0	126.6	

Instrument :
 MSVOA_N
 ClientSampled :
 VN0507MBS02

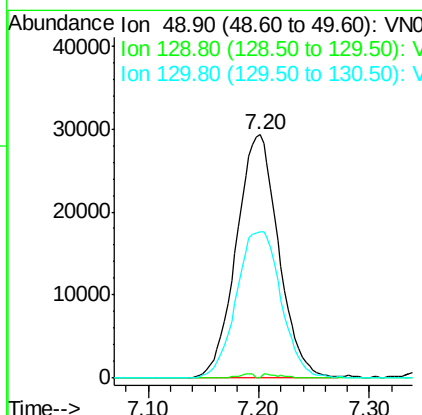
Manual Integrations
 APPROVED

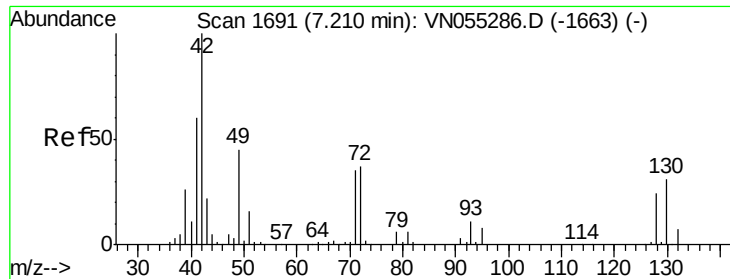
MMDadoda
 5/8/2019 10:16:23 AM



#28
 Bromochloromethane
 Concen: 21.564 ug/l
 RT: 7.20 min Scan# 1688
 Delta R.T. 0.01 min
 Lab File: VN055452.D
 Acq: 7 May 2019 22:13

Tgt Ion	Ratio	Resp	Lower	Upper
49	100			
129	0.7	0.0	2.4	
130	63.6	52.0	78.0	





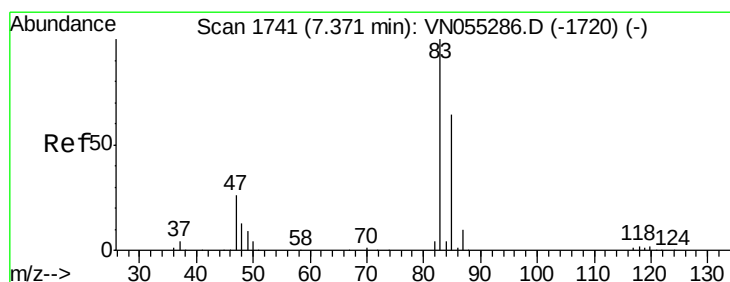
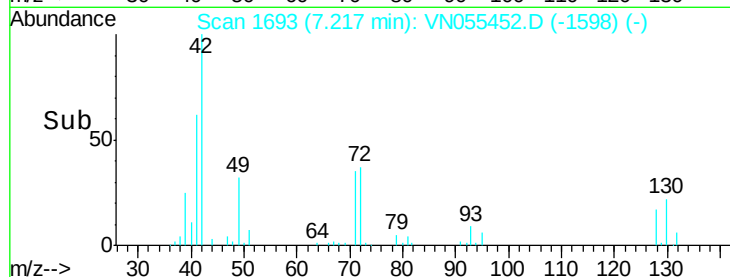
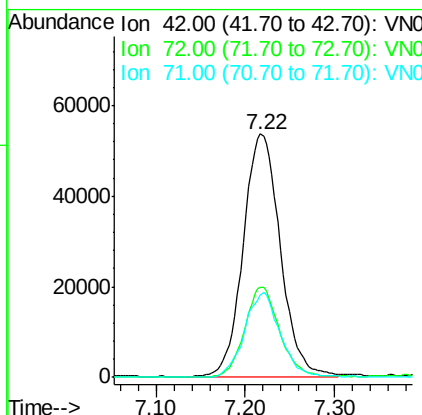
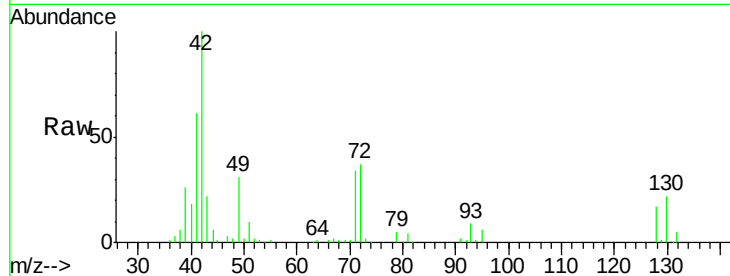
#29
Tetrahydrofuran
Concen: 141.728 ug/l
RT: 7.22 min Scan# 1693
Delta R.T. 0.01 min
Lab File: VN055452.D
Acq: 7 May 2019 22:13

Instrument :
MSVOA_N
ClientSampleId :
VN0507MBS02

Tot Ion	Ratio	Lower	Upper
42	100		
72	34.9	29.0	43.6
71	33.2	27.1	40.7

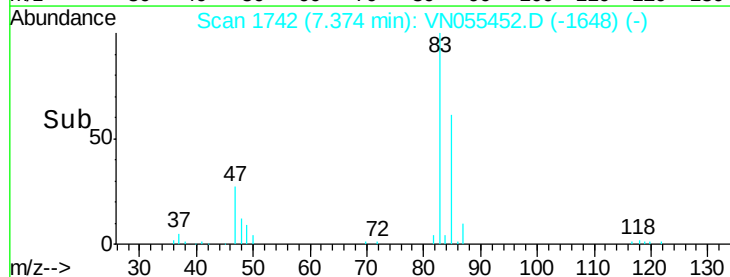
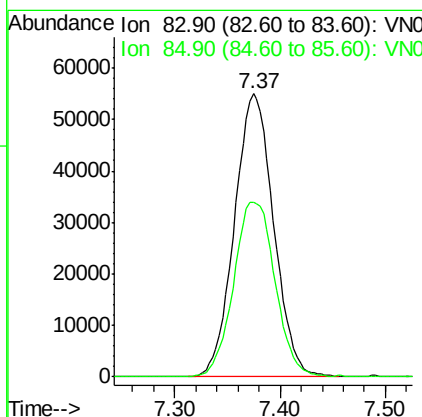
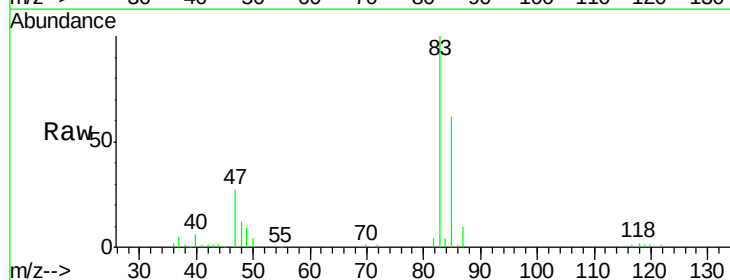
Manual Integrations
APPROVED

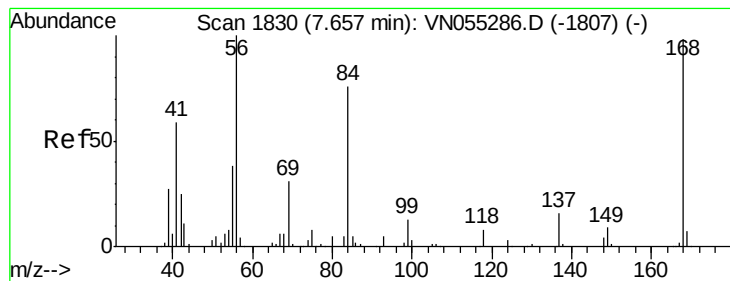
MMDadoda
5/8/2019 10:16:23 AM



#30
Chloroform
Concen: 20.916 ug/l
RT: 7.37 min Scan# 1742
Delta R.T. 0.00 min
Lab File: VN055452.D
Acq: 7 May 2019 22:13

Tgt Ion	Ratio	Lower	Upper
83	100		
85	61.6	51.4	77.2





#31

Cyclohexane

Concen: 18.269 ug/l

RT: 7.66 min Scan# 1830

Delta R.T. 0.00 min

Lab File: VN055452.D

Acq: 7 May 2019 22:13

Instrument :

MSVOA_N

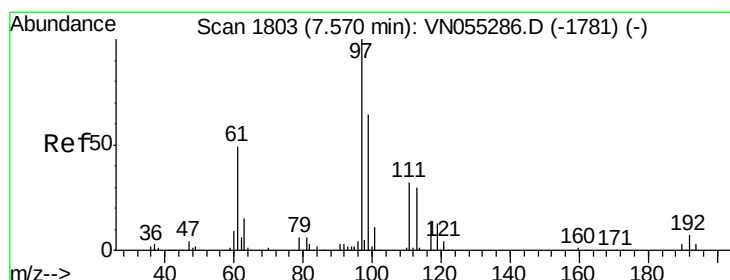
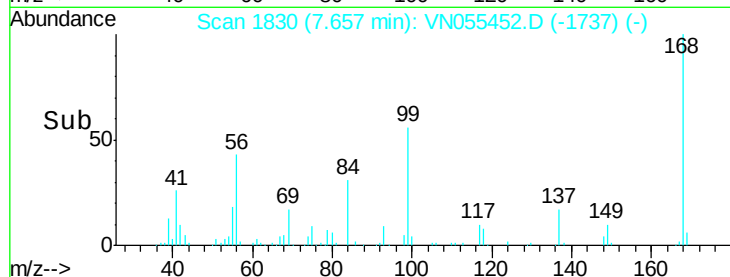
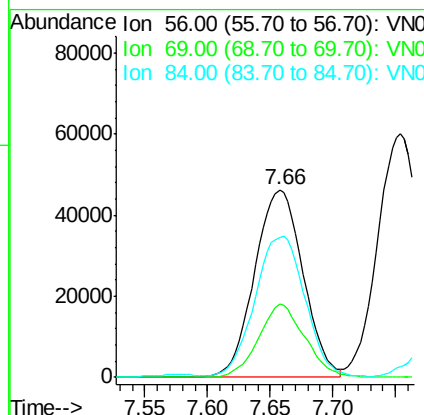
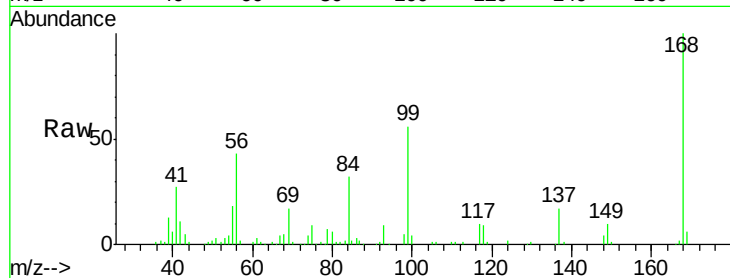
ClientSampled :

VN0507MBS02

Tot Ion	56	Resp	124384
Ion	Ratio	Lower	Upper
56	100		
69	38.8	25.2	37.8#
84	73.1	61.1	91.7

Manual Integrations
APPROVED

MMDadoda
5/8/2019 10:16:23 AM



#32

1,1,1-Trichloroethane

Concen: 20.357 ug/l

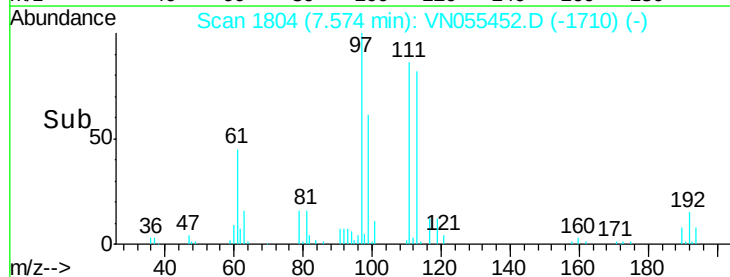
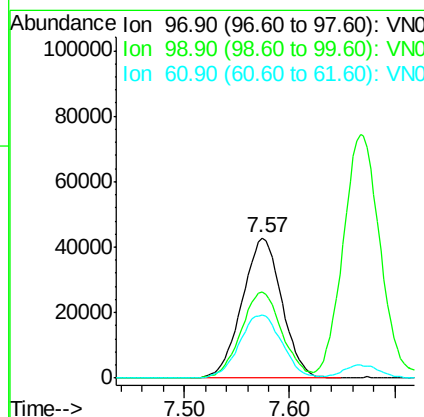
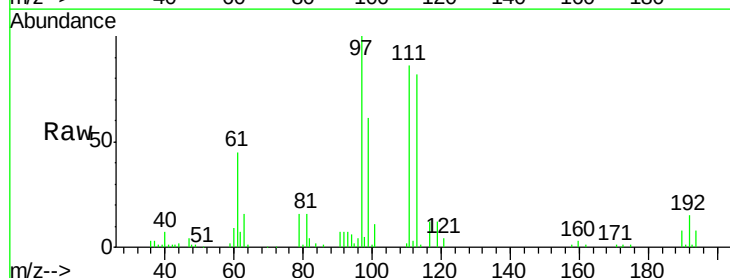
RT: 7.57 min Scan# 1804

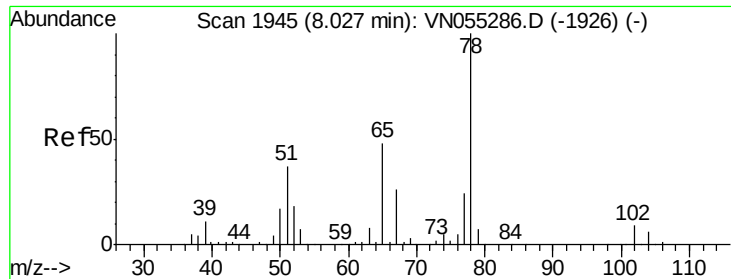
Delta R.T. 0.00 min

Lab File: VN055452.D

Acq: 7 May 2019 22:13

Tgt Ion	97	Resp	112234
Ion	Ratio	Lower	Upper
97	100		
99	63.4	51.8	77.8
61	48.0	39.0	58.6





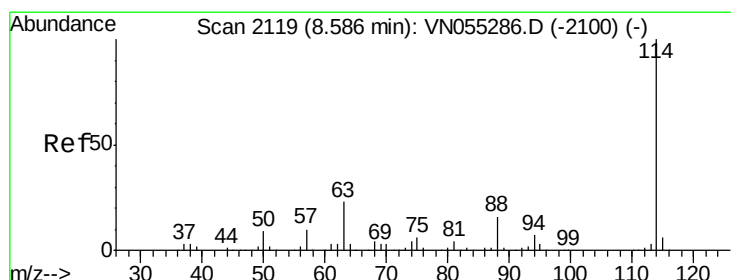
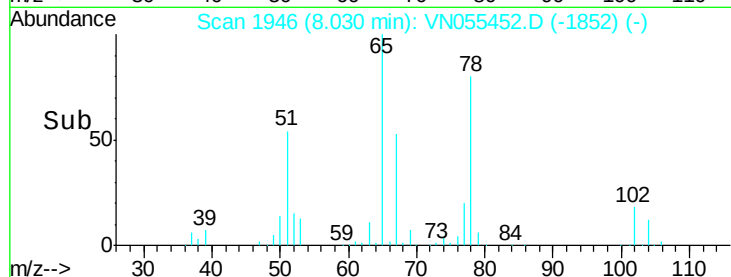
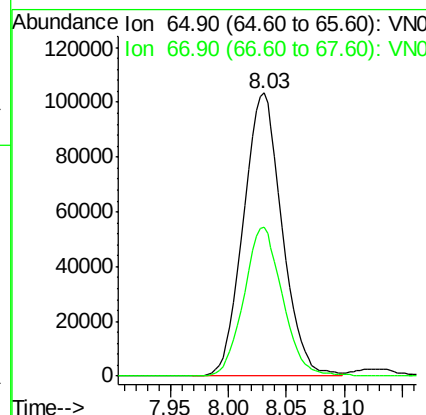
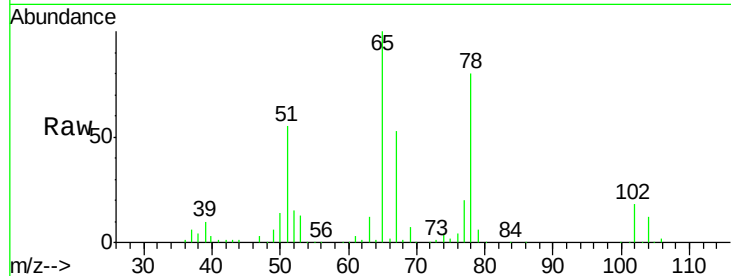
#33
 1,2-Dichloroethane-d4
 Concen: 55.493 ug/l
 RT: 8.03 min Scan# 1946
 Delta R.T. 0.00 min
 Lab File: VN055452.D
 Acq: 7 May 2019 22:13

Instrument :
 MSVOA_N
 ClientSampled :
 VN0507MBS02

Tot Ion	Ratio	Resp	Lower	Upper
65	100	240202		
67	52.3	0.0	106.8	

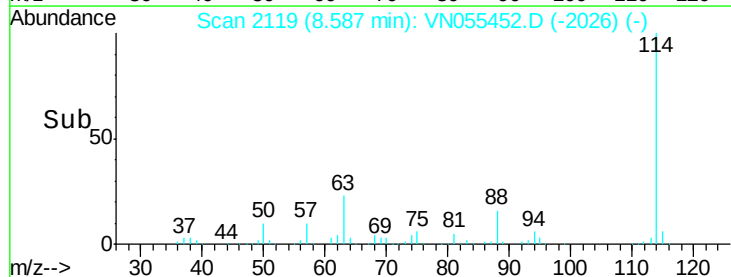
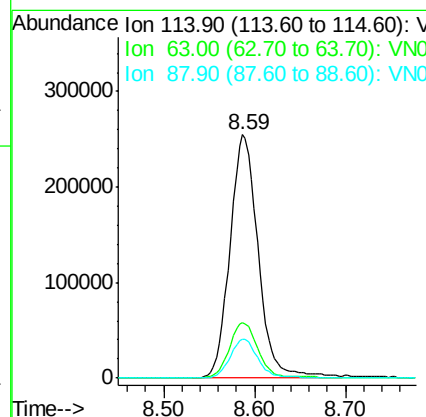
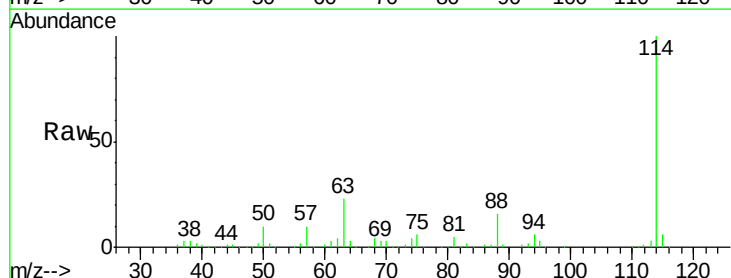
Manual Integrations
 APPROVED

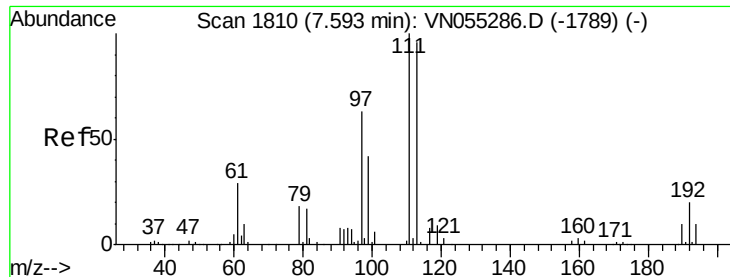
MMDadoda
 5/8/2019 10:16:23 AM



#34
 1,4-Difluorobenzene
 Concen: 50.000 ug/l
 RT: 8.59 min Scan# 2119
 Delta R.T. 0.00 min
 Lab File: VN055452.D
 Acq: 7 May 2019 22:13

Tgt Ion	Ratio	Resp	Lower	Upper
114	100	551905		
63	22.9	0.0	45.2	
88	16.0	0.0	31.6	





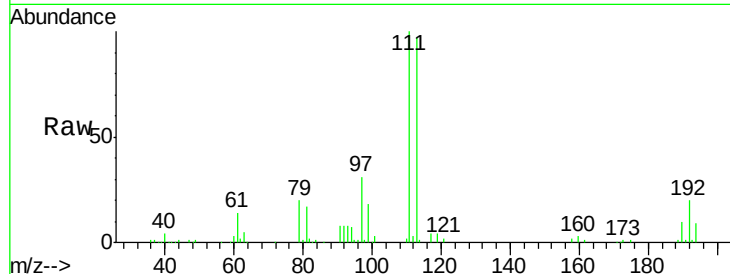
#35
 Dibromofluoromethane
 Concen: 50.611 ug/l
 RT: 7.59 min Scan# 1810
 Delta R.T. 0.00 min
 Lab File: VN055452.D
 Acq: 7 May 2019 22:13

Instrument :
 MSVOA_N
 ClientSampled :
 VN0507MBS02

Tot Ion	Ratio	Resp	Lower	Upper
113	100			
111	102.6	82.3	123.5	
192	19.9	17.0	25.6	

Manual Integrations
 APPROVED

MMDadoda
 5/8/2019 10:16:23 AM

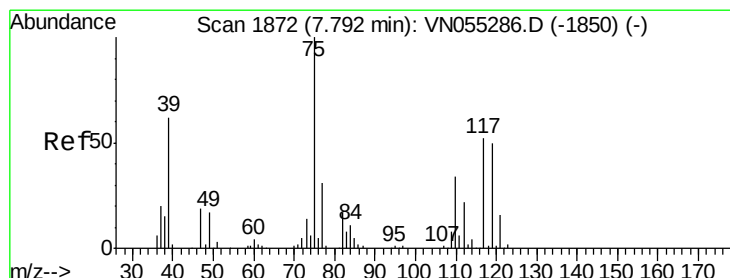
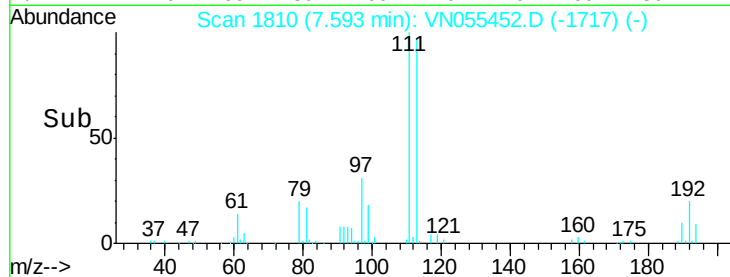
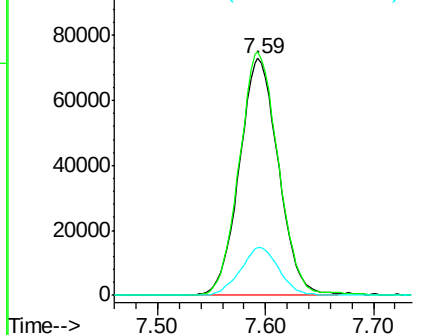


Abundance

Ion 112.80 (112.50 to 113.50): V

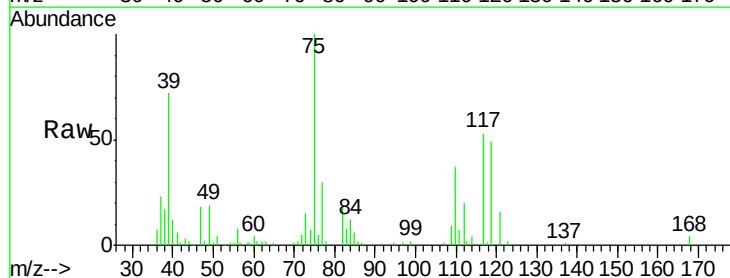
Ion 110.80 (110.50 to 111.50): V

Ion 191.70 (191.40 to 192.40): V



#36
 1,1-Dichloropropene
 Concen: 17.183 ug/l
 RT: 7.80 min Scan# 1873
 Delta R.T. 0.00 min
 Lab File: VN055452.D
 Acq: 7 May 2019 22:13

Tgt Ion	Ratio	Resp	Lower	Upper
75	100			
110	35.5	16.8	50.4	
77	32.0	25.0	37.6	

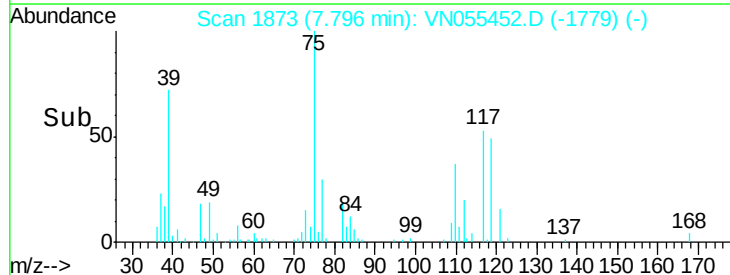
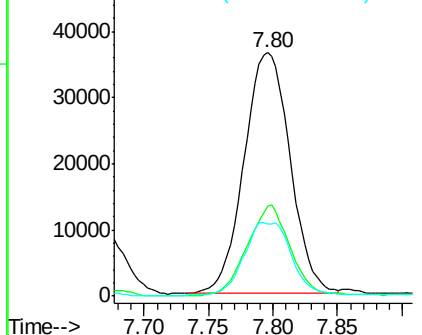


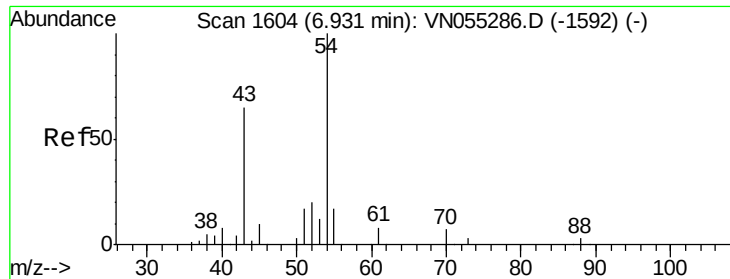
Abundance

Ion 74.90 (74.60 to 75.60): V

Ion 109.90 (109.60 to 110.60): V

Ion 76.90 (76.60 to 77.60): V





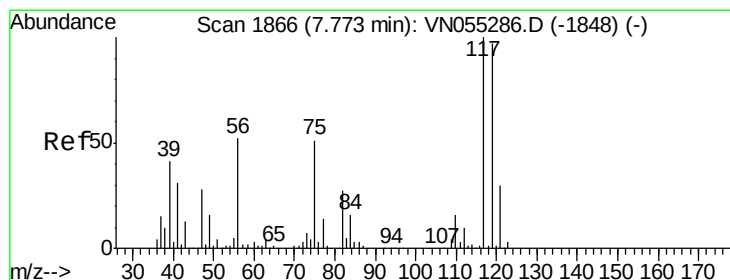
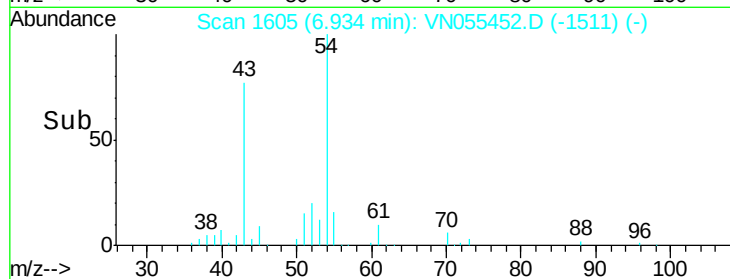
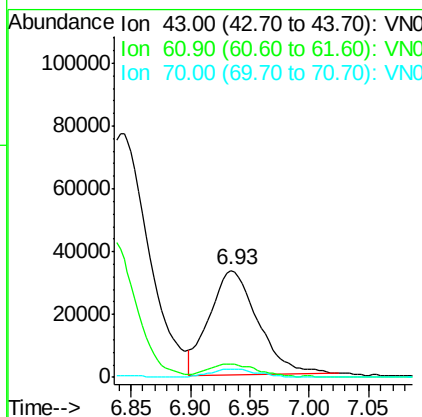
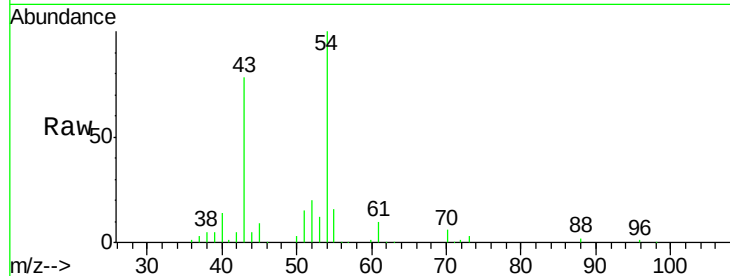
#37
Ethyl Acetate
Concen: 23.241 ug/l
RT: 6.93 min Scan# 1605
Delta R.T. 0.00 min
Lab File: VN055452.D
Acq: 7 May 2019 22:13

Instrument :
MSVOA_N
ClientSampled :
VN0507MBS02

Tot Ion	43	61	70
Resp	94164		
Ratio	100	11.7	8.1
Lower		10.4	6.6
Upper		15.6	10.0

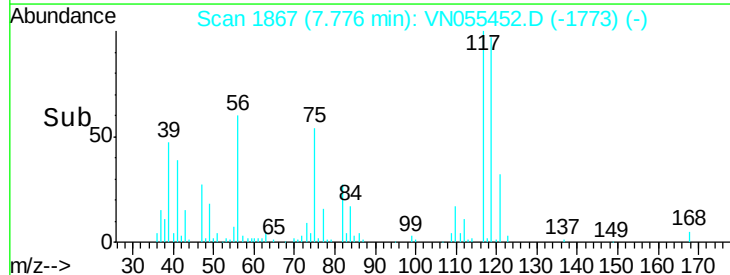
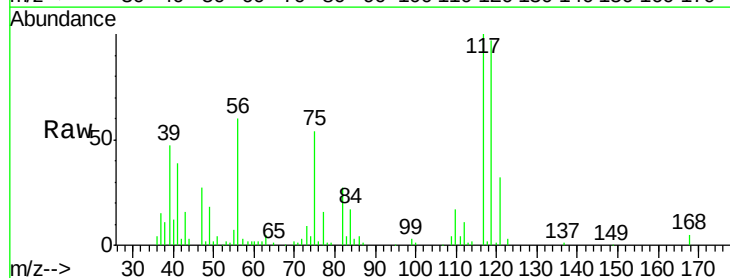
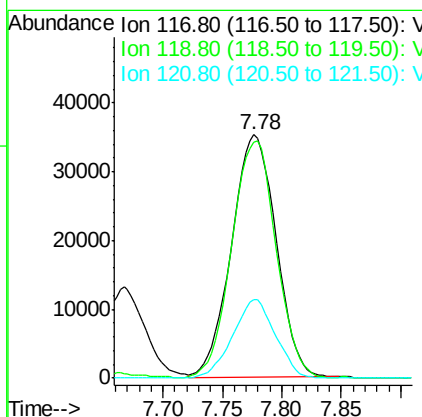
Manual Integrations
APPROVED

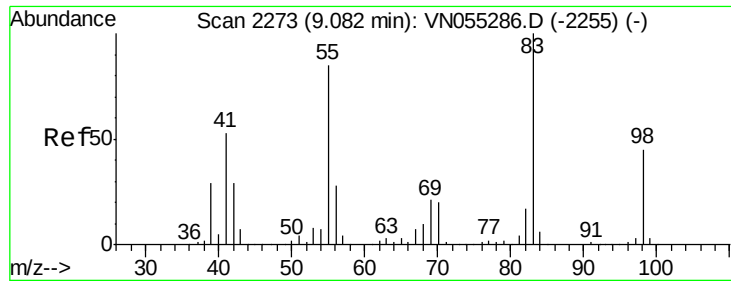
MMDadoda
5/8/2019 10:16:23 AM



#38
Carbon Tetrachloride
Concen: 17.968 ug/l
RT: 7.78 min Scan# 1867
Delta R.T. 0.00 min
Lab File: VN055452.D
Acq: 7 May 2019 22:13

Tgt Ion	117	119	121
Resp	91627		
Ratio	100	97.2	32.5
Lower		77.0	23.8
Upper		115.6	35.8





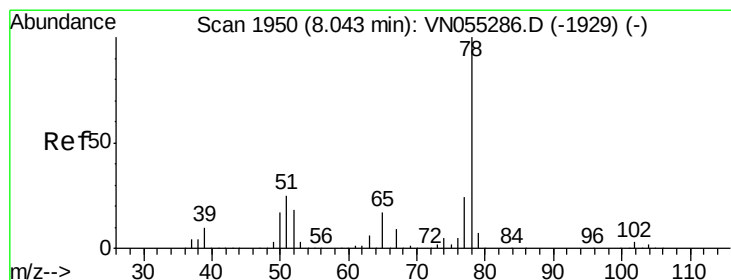
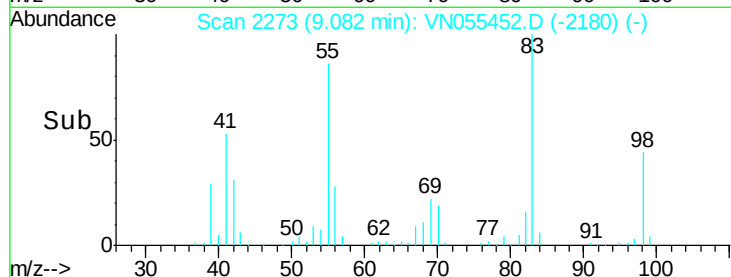
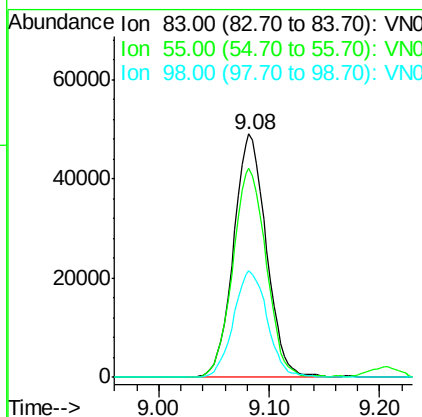
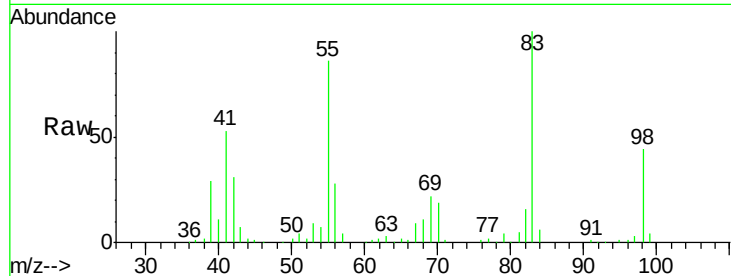
#39
Methylvlcyclohexane
Concen: 18.015 ug/l
RT: 9.08 min Scan# 2273
Delta R.T. 0.00 min
Lab File: VN055452.D
Acq: 7 May 2019 22:13

Instrument :
MSVOA_N
ClientSampleId :
VN0507MBS02

Tot Ion	83	Resp	101252
Ion Ratio	Lower	Upper	
83	100		
55	85.9	67.8	101.6
98	43.7	36.2	54.4

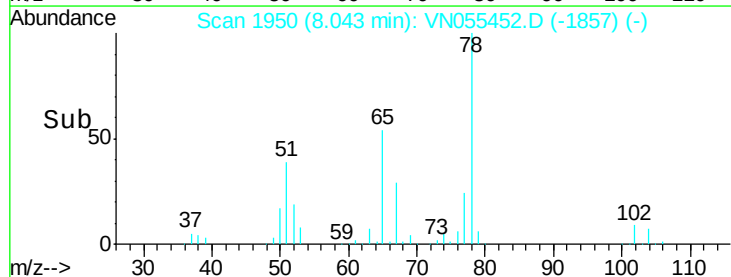
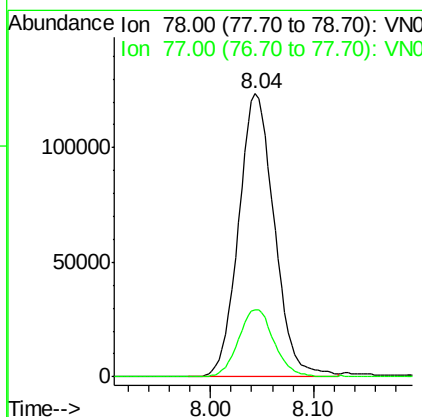
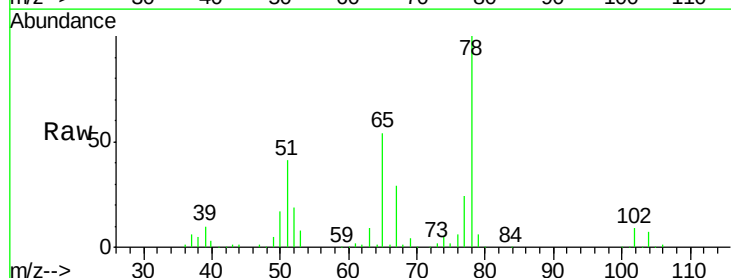
Manual Integrations
APPROVED

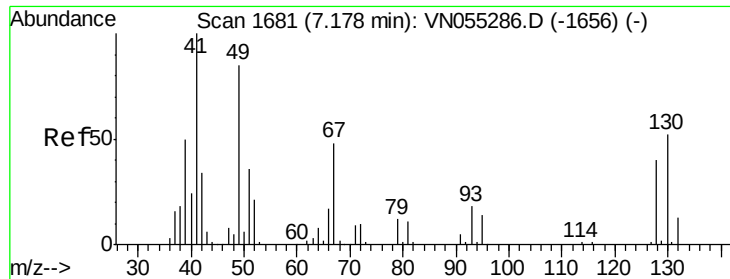
MMDadoda
5/8/2019 10:16:23 AM



#40
Benzene
Concen: 19.137 ug/l
RT: 8.04 min Scan# 1950
Delta R.T. 0.00 min
Lab File: VN055452.D
Acq: 7 May 2019 22:13

Tgt Ion	78	Resp	298237
Ion Ratio	Lower	Upper	
78	100		
77	23.8	19.0	28.6





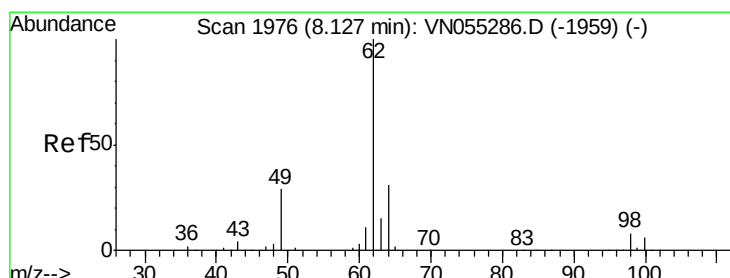
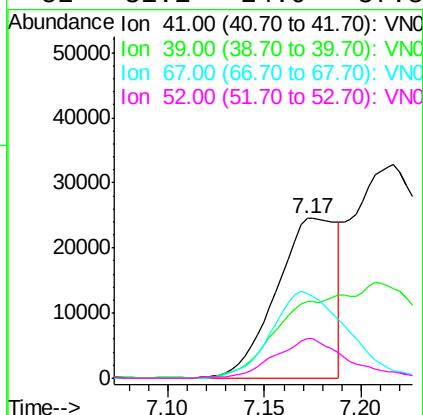
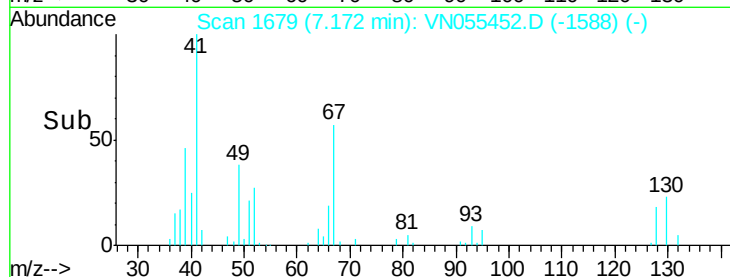
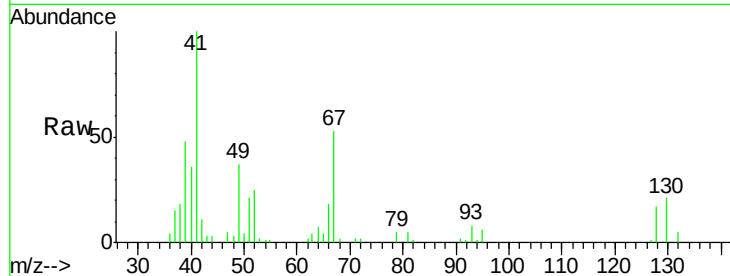
#41
Methacrylonitrile
Concen: 24.819 ug/l
RT: 7.17 min Scan# 1679
Delta R.T. -0.01 min
Lab File: VN055452.D
Acq: 7 May 2019 22:13

Instrument :
MSVOA_N
ClientSampled :
VN0507MBS02

Tot Ion	Ratio	Lower	Upper
41	100		
39	0.0	48.5	72.7#
67	69.2	54.9	82.3
52	31.1	24.9	37.3

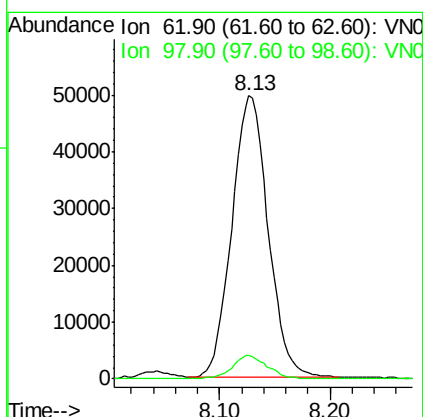
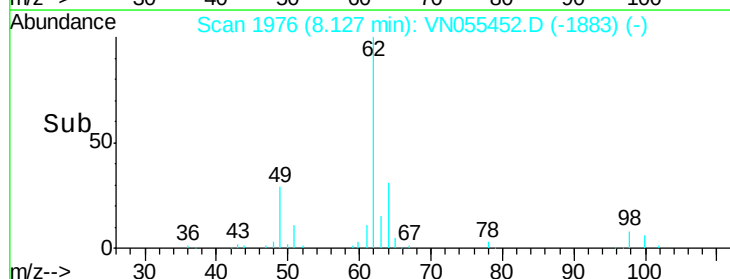
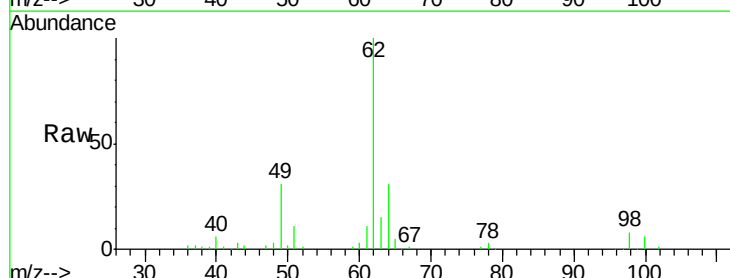
Manual Integrations
APPROVED

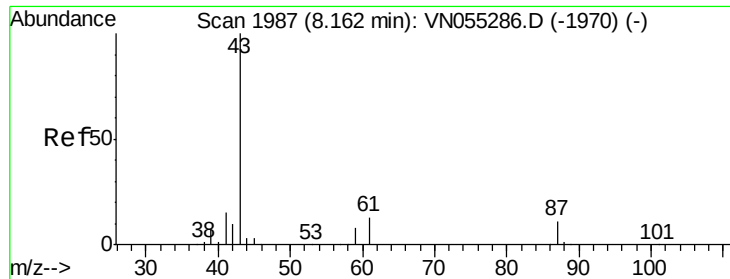
MMDadoda
5/8/2019 10:16:23 AM



#42
1,2-Dichloroethane
Concen: 20.441 ug/l
RT: 8.13 min Scan# 1976
Delta R.T. 0.00 min
Lab File: VN055452.D
Acq: 7 May 2019 22:13

Tgt Ion	Ratio	Lower	Upper
62	100		
98	8.0	0.0	16.4





#43

Isopropyl Acetate

Concen: 25.366 ug/l

RT: 8.17 min Scan# 1988

Delta R.T. 0.00 min

Lab File: VN055452.D

Acq: 7 May 2019 22:13

Instrument :

MSVOA_N

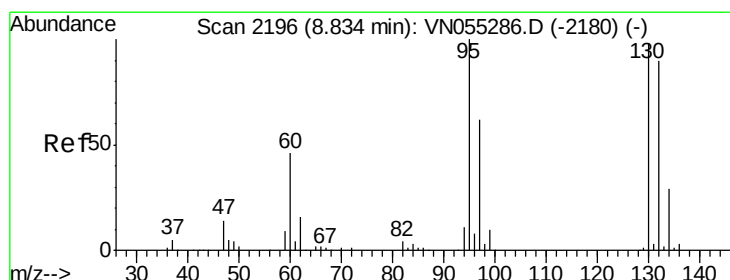
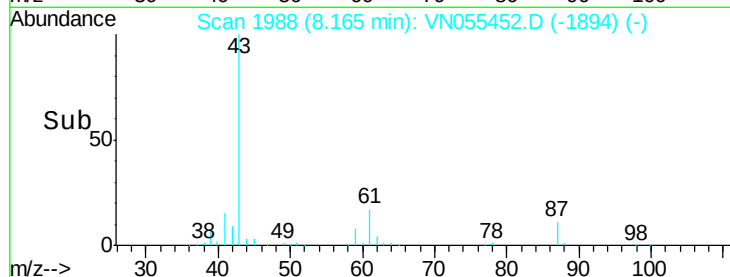
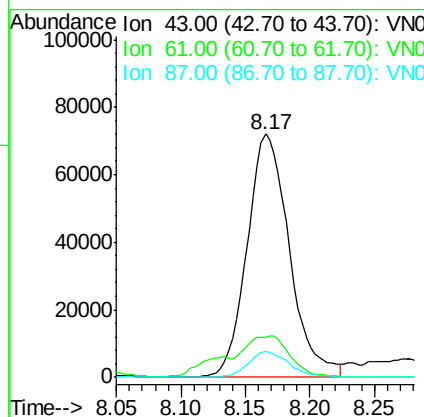
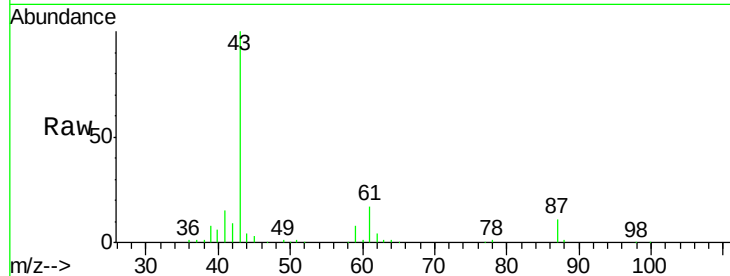
ClientSampleId :

VN0507MBS02

Tot Ion:	43	Resp:	165158
Ion	Ratio	Lower	Upper
43	100		
61	18.0	20.8	31.2#
87	10.4	8.5	12.7

Manual Integrations
APPROVED

MMDadoda
5/8/2019 10:16:23 AM



#44

Trichloroethene

Concen: 18.165 ug/l

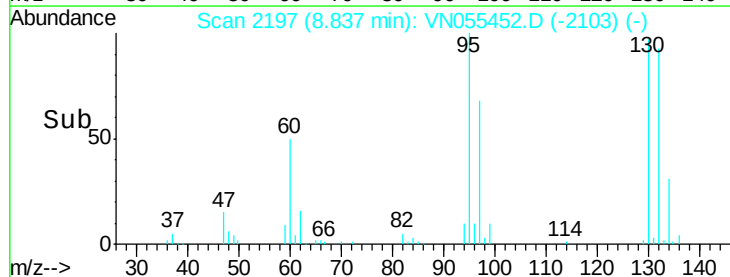
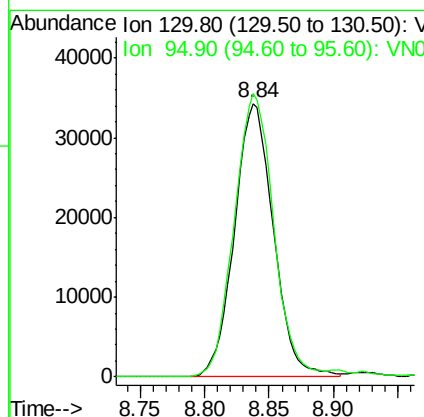
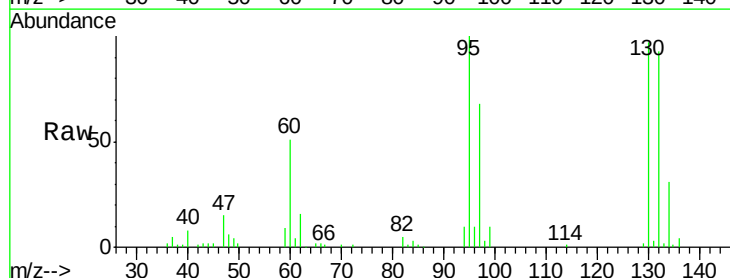
RT: 8.84 min Scan# 2197

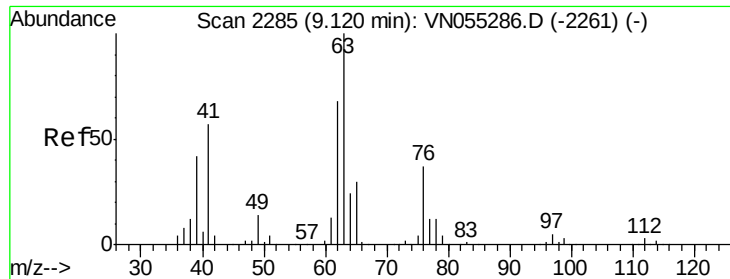
Delta R.T. 0.00 min

Lab File: VN055452.D

Acq: 7 May 2019 22:13

Tgt Ion:	130	Resp:	72164
Ion	Ratio	Lower	Upper
130	100		
95	103.4	0.0	203.4





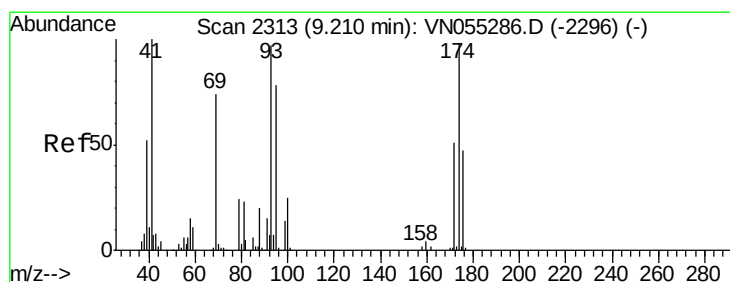
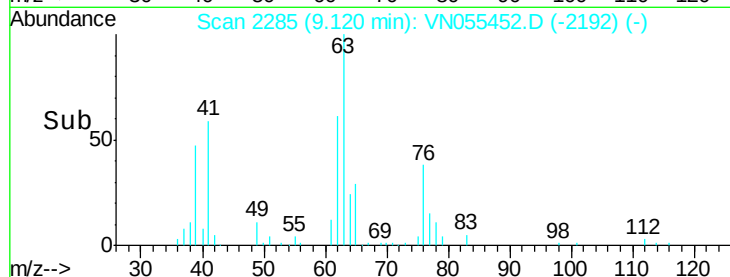
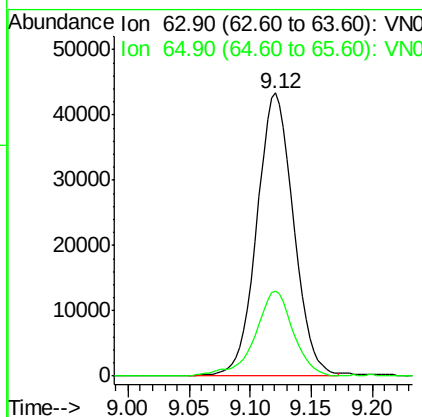
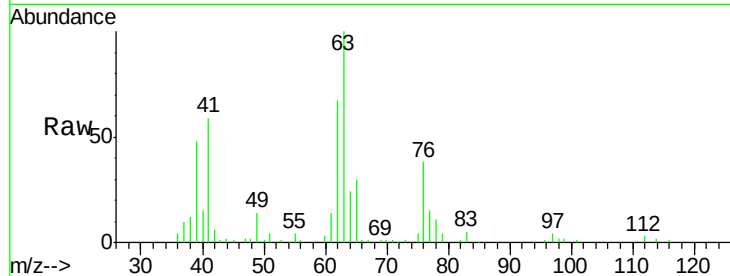
#45
 1,2-Dichloropropane
 Concen: 20.133 ug/l
 RT: 9.12 min Scan# 2285
 Delta R.T. 0.00 min
 Lab File: VN055452.D
 Acq: 7 May 2019 22:13

Instrument :
 MSVOA_N
 ClientSampleId :
 VN0507MBS02

Tot Ion: 63 Resp: 90491
 Ion Ratio Lower Upper
 63 100
 65 30.2 23.9 35.9

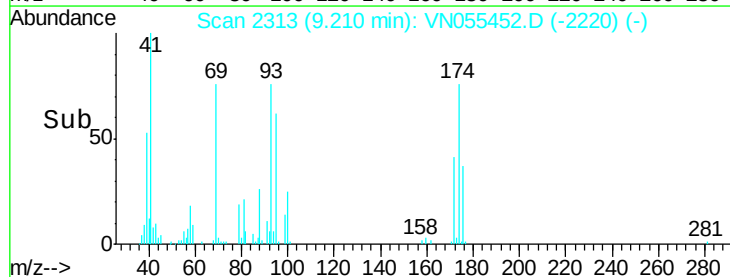
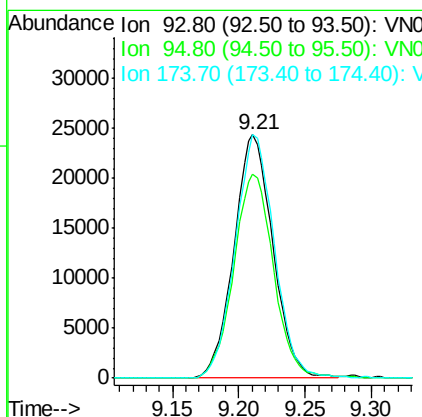
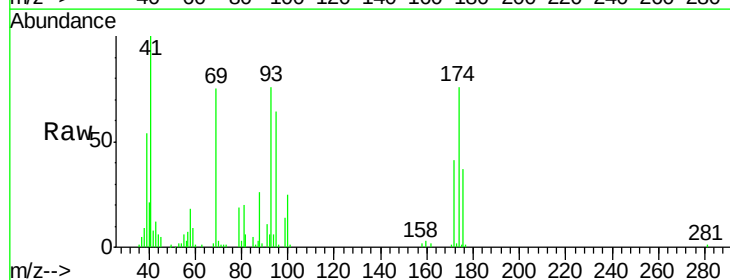
Manual Integrations
 APPROVED

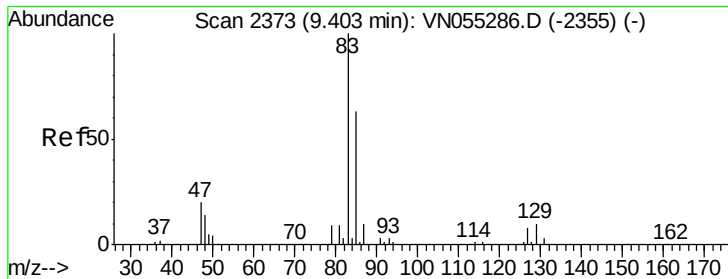
MMDadoda
 5/8/2019 10:16:23 AM



#46
 Dibromomethane
 Concen: 20.292 ug/l
 RT: 9.21 min Scan# 2313
 Delta R.T. 0.00 min
 Lab File: VN055452.D
 Acq: 7 May 2019 22:13

Tgt Ion: 93 Resp: 49854
 Ion Ratio Lower Upper
 93 100
 95 85.4 65.7 98.5
 174 100.3 81.5 122.3





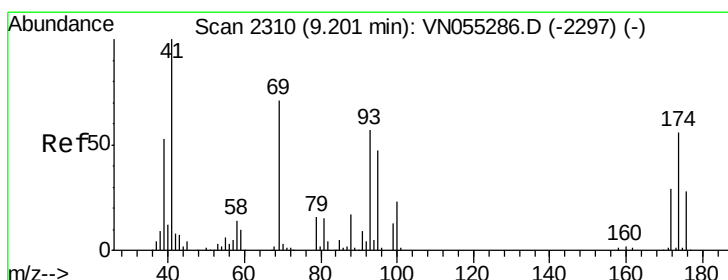
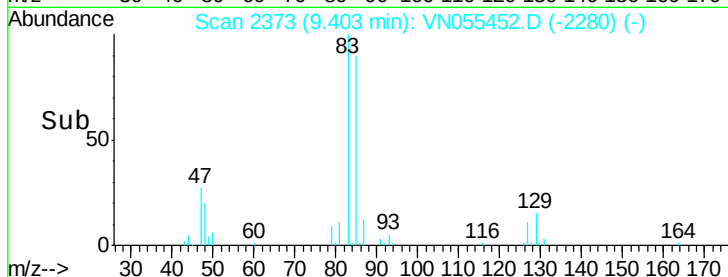
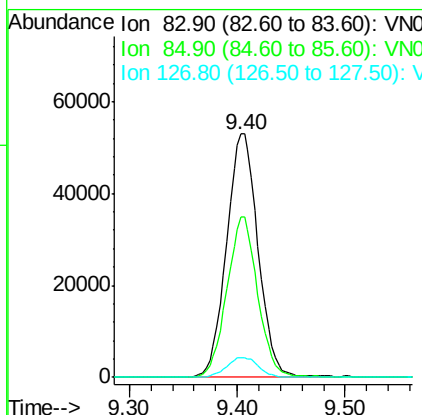
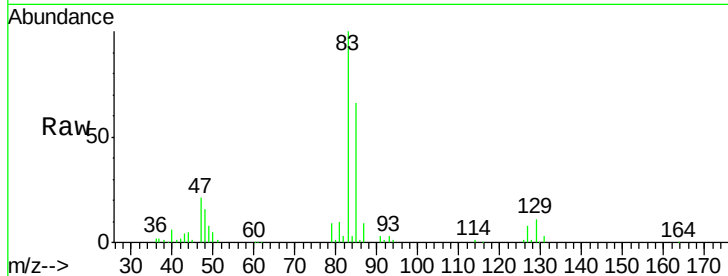
#47
Bromodichloromethane
Concen: 20.485 ug/l
RT: 9.40 min Scan# 2373
Delta R.T. 0.00 min
Lab File: VN055452.D
Acq: 7 May 2019 22:13

Instrument :
MSVOA_N
ClientSampleId :
VN0507MBS02

Tot Ion	83	Resp	107969
Ion Ratio	100	Lower	Upper
83	100		
85	65.8	50.1	75.1
127	8.0	6.7	10.1

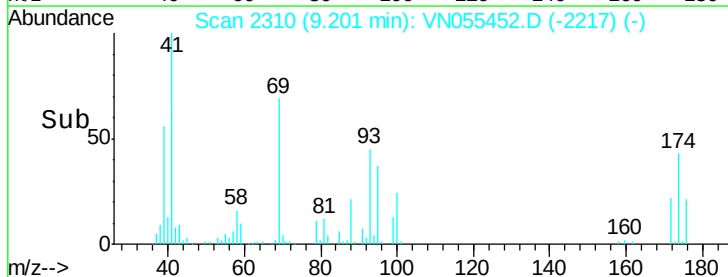
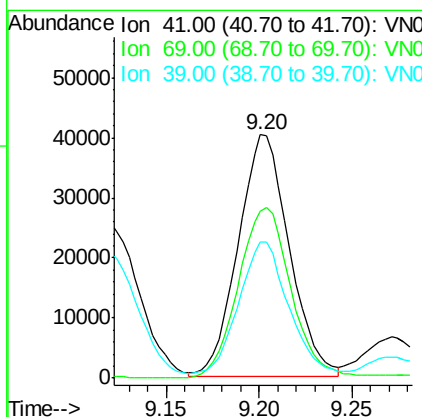
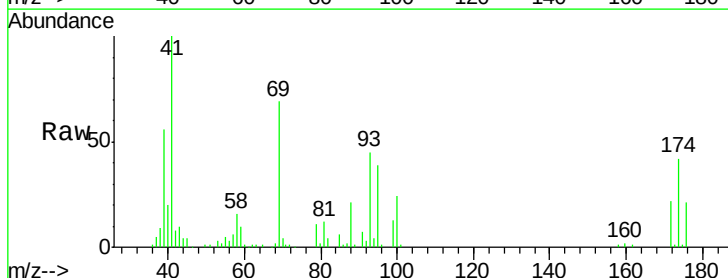
Manual Integrations
APPROVED

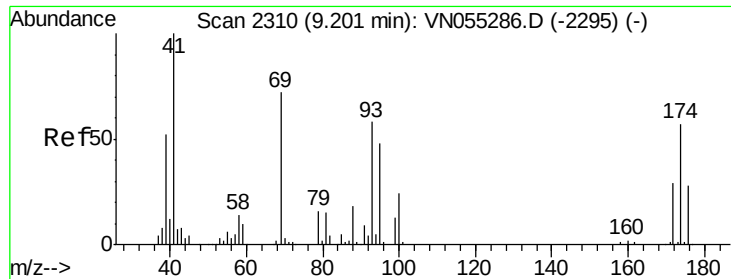
MMDadoda
5/8/2019 10:16:23 AM



#48
Methyl methacrylate
Concen: 24.029 ug/l
RT: 9.20 min Scan# 2310
Delta R.T. 0.00 min
Lab File: VN055452.D
Acq: 7 May 2019 22:13

Tgt Ion	41	Resp	76915
Ion Ratio	100	Lower	Upper
41	100		
69	72.9	58.6	87.8
39	56.2	43.8	65.6





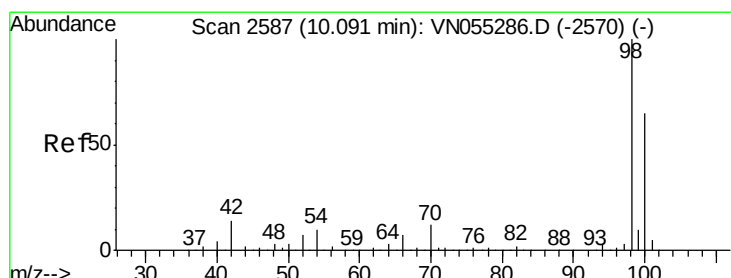
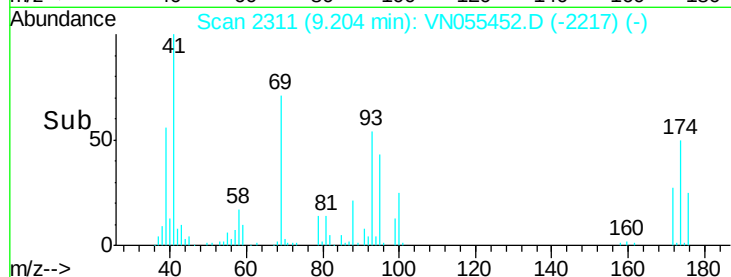
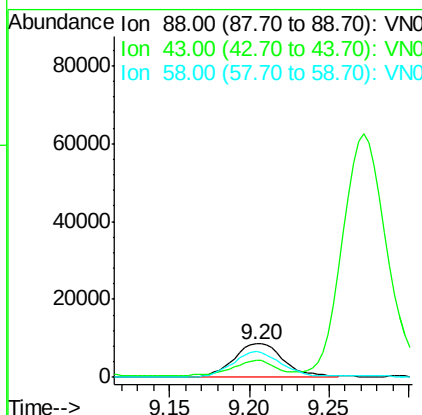
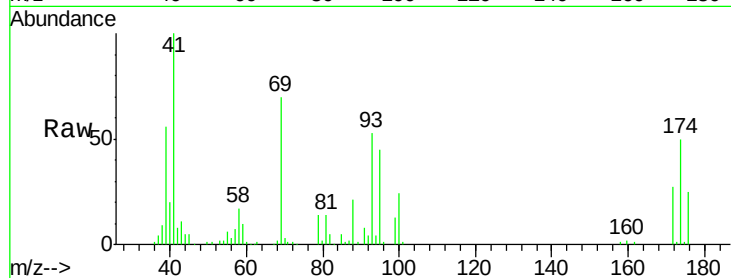
#49
1,4-Dioxane
Concen: 563.457 ug/l
RT: 9.20 min Scan# 2311
Delta R.T. 0.00 min
Lab File: VN055452.D
Acq: 7 May 2019 22:13

Instrument :
MSVOA_N
ClientSampled :
VN0507MBS02

Tot Ion	Ratio	Lower	Upper
88	100		
43	41.2	33.3	49.9
58	74.9	62.7	94.1

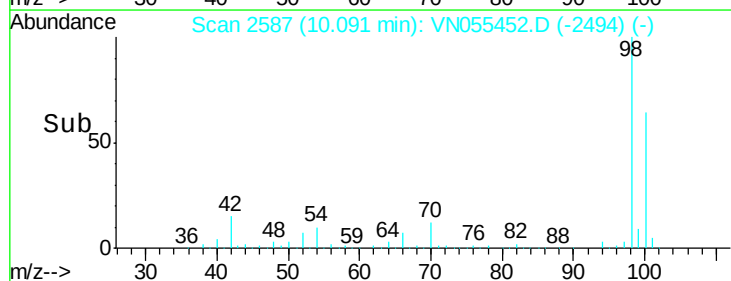
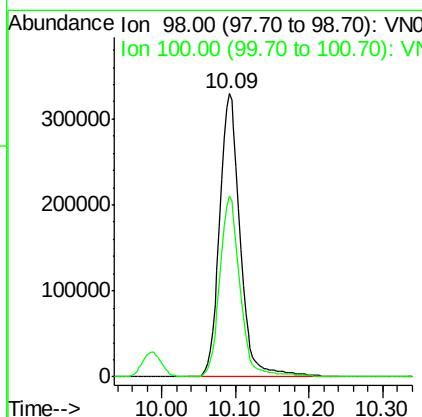
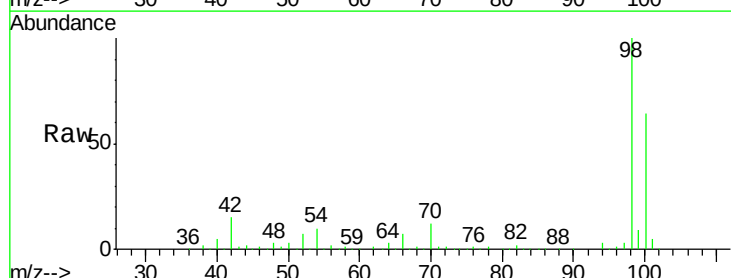
Manual Integrations
APPROVED

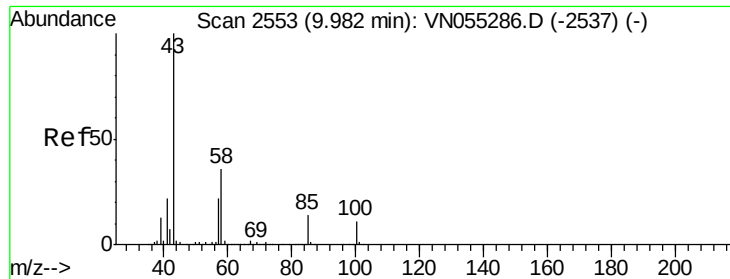
MMDadoda
5/8/2019 10:16:23 AM



#50
Toluene-d8
Concen: 48.833 ug/l
RT: 10.09 min Scan# 2587
Delta R.T. 0.00 min
Lab File: VN055452.D
Acq: 7 May 2019 22:13

Tgt Ion	Ratio	Lower	Upper
98	100		
100	63.1	51.7	77.5





#51

4-Methyl-2-Pentanone

Concen: 132.446 ug/l

RT: 9.99 min Scan# 2554

Delta R.T. 0.00 min

Lab File: VN055452.D

Acq: 7 May 2019 22:13

Instrument :

MSVOA_N

ClientSampleId :

VN0507MBS02

Tot Ion: 43 Resp: 485529

Ion Ratio Lower Upper

43 100

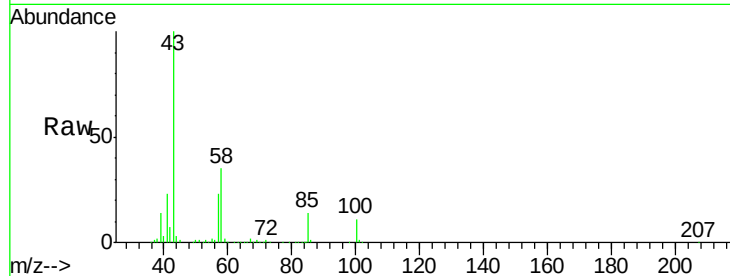
58 34.3 28.5 42.7

Manual Integrations

APPROVED

MMDadoda

5/8/2019 10:16:23 AM



Abundance Ion 43.00 (42.70 to 43.70): VN0

Ion 58.00 (57.70 to 58.70): VN0

9.99

250000

200000

150000

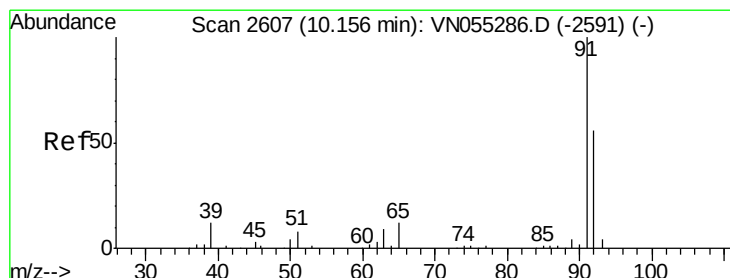
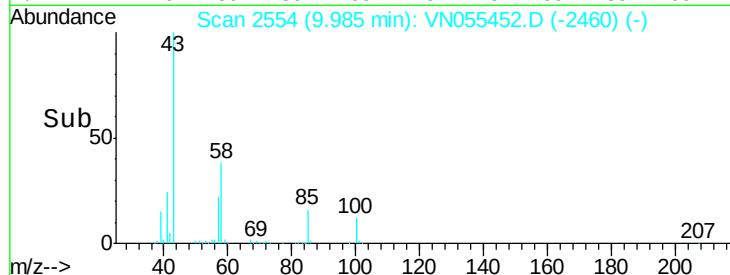
100000

50000

0

Time-->

9.90 10.00 10.10



#52

Toluene

Concen: 19.244 ug/l

RT: 10.16 min Scan# 2608

Delta R.T. 0.00 min

Lab File: VN055452.D

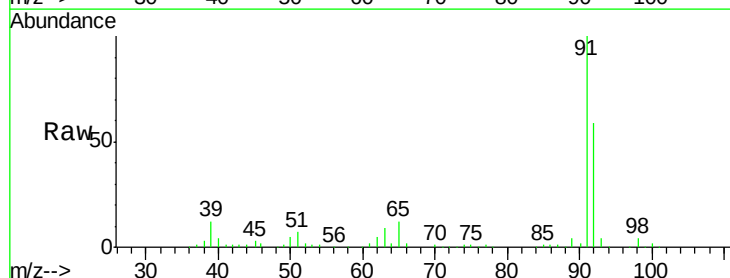
Acq: 7 May 2019 22:13

Tgt Ion: 92 Resp: 172070

Ion Ratio Lower Upper

92 100

91 177.2 140.1 210.1



Abundance Ion 92.00 (91.70 to 92.70): VN0

Ion 91.00 (90.70 to 91.70): VN0

10.16

150000

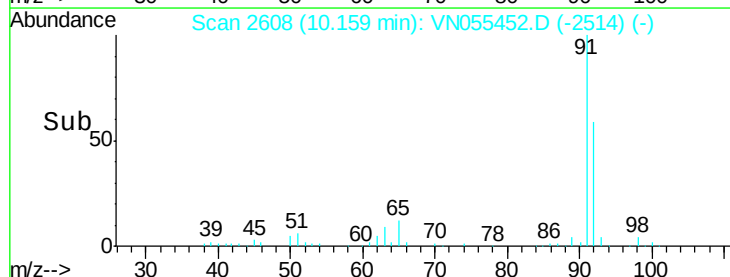
100000

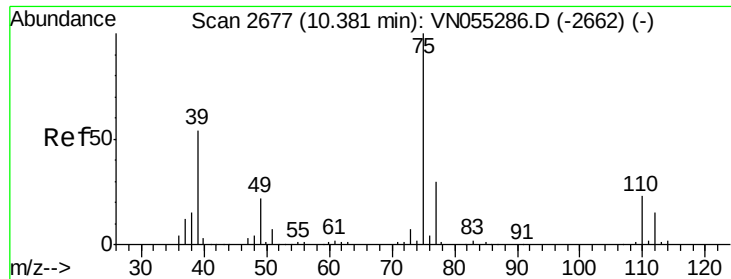
50000

0

Time-->

10.10 10.20





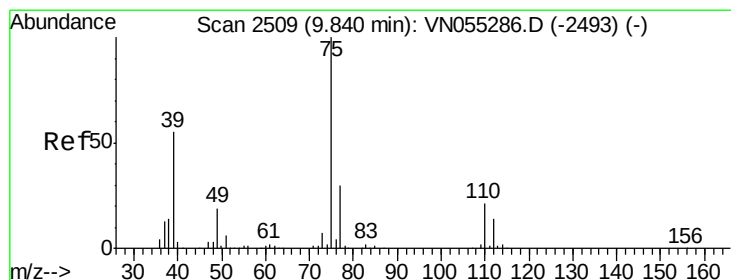
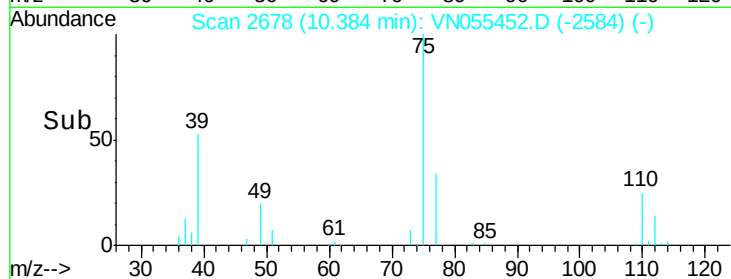
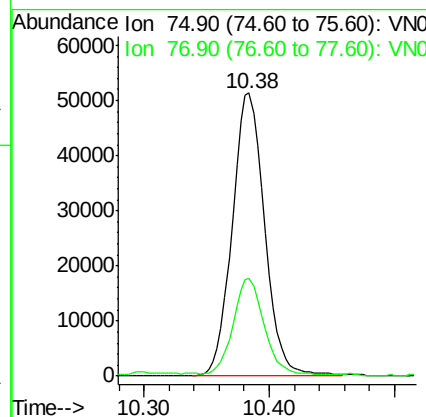
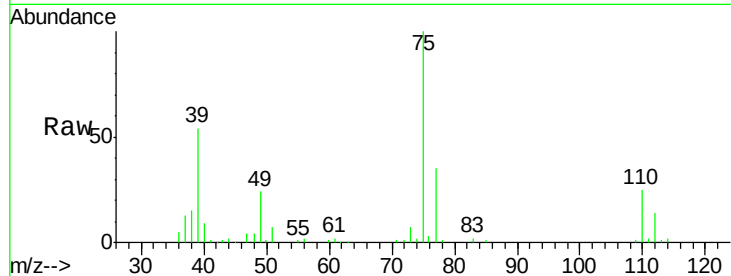
#53
t-1,3-Dichloropropene
Concen: 20.151 ug/l
RT: 10.38 min Scan# 2678
Delta R.T. 0.00 min
Lab File: VN055452.D
Acq: 7 May 2019 22:13

Instrument :
MSVOA_N
ClientSampled :
VN0507MBS02

Tot Ion: 75 Resp: 92199
Ion Ratio Lower Upper
75 100
77 34.1 24.4 36.6

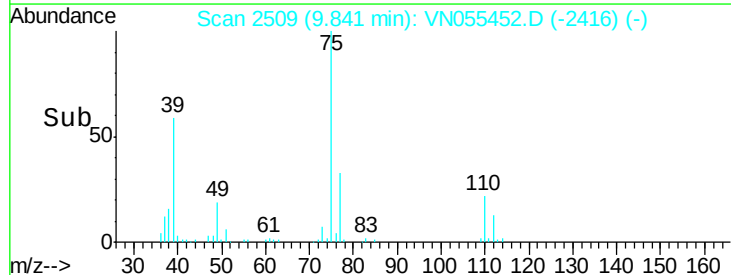
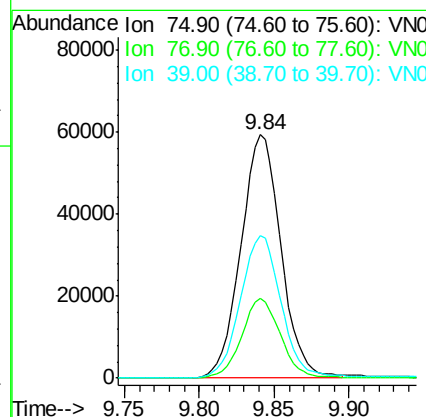
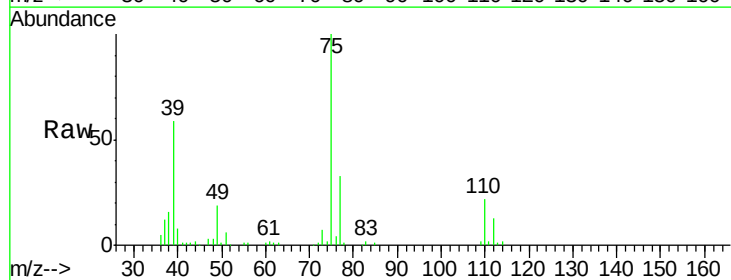
Manual Integrations
APPROVED

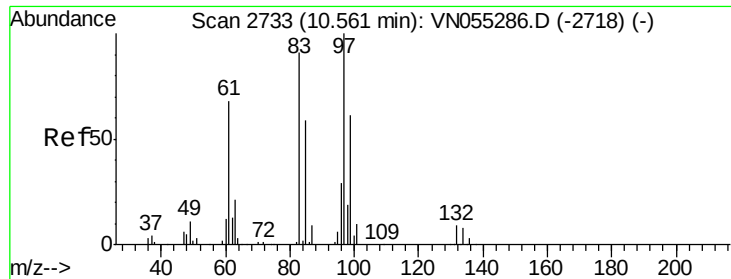
MMDadoda
5/8/2019 10:16:23 AM



#54
cis-1,3-Dichloropropene
Concen: 19.454 ug/l
RT: 9.84 min Scan# 2509
Delta R.T. 0.00 min
Lab File: VN055452.D
Acq: 7 May 2019 22:13

Tgt Ion: 75 Resp: 110981
Ion Ratio Lower Upper
75 100
77 32.6 24.2 36.2
39 58.6 44.2 66.2





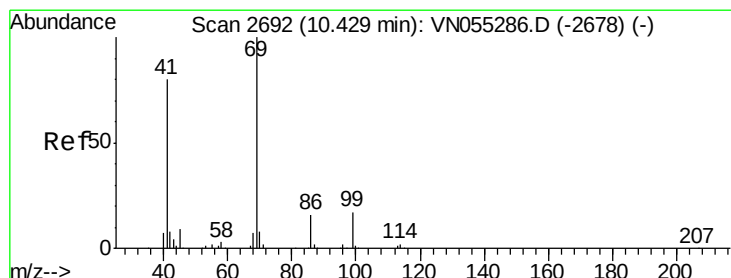
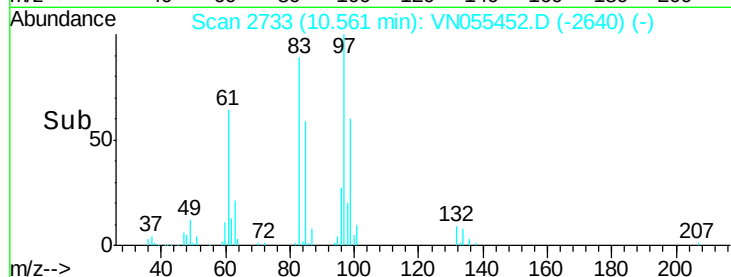
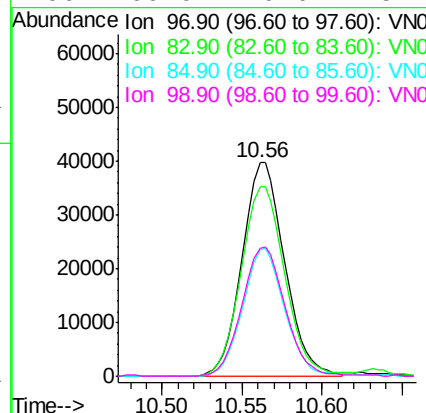
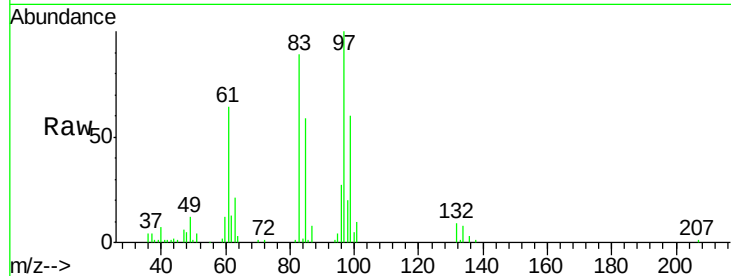
#55
 1,1,2-Trichloroethane
 Concen: 21.736 ug/l
 RT: 10.56 min Scan# 2733
 Delta R.T. 0.00 min
 Lab File: VN055452.D
 Acq: 7 May 2019 22:13

Instrument :
 MSVOA_N
 ClientSampleId :
 VN0507MBS02

Tot Ion:	97	Resp:	72171
Ion	Ratio	Lower	Upper
97	100		
83	88.8	72.8	109.2
85	59.4	47.0	70.6
99	60.0	49.0	73.4

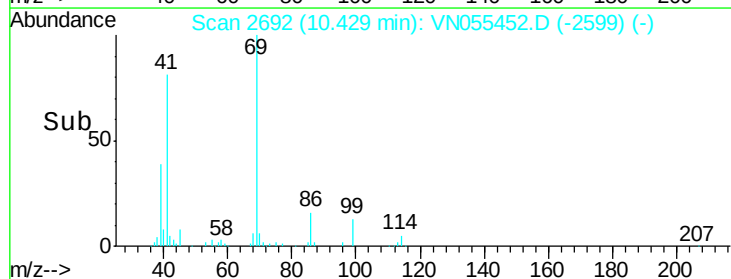
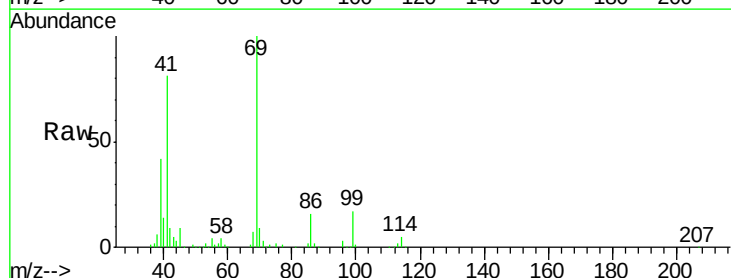
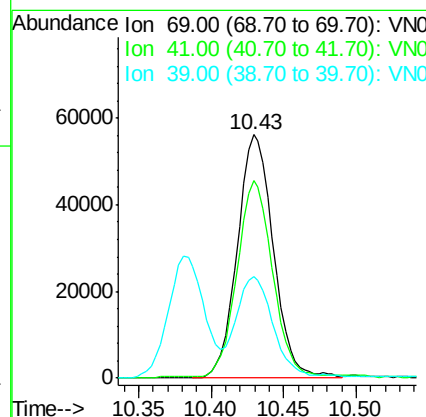
Manual Integrations
 APPROVED

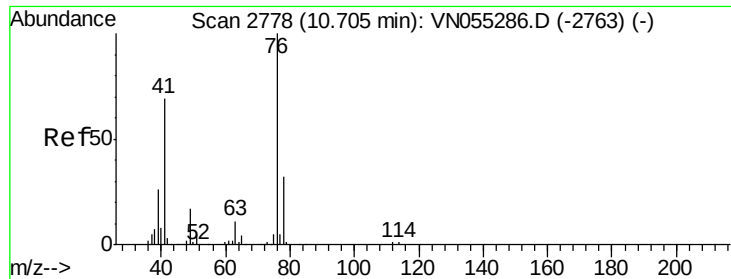
MMDadoda
 5/8/2019 10:16:23 AM



#56
 Ethyl methacrylate
 Concen: 23.711 ug/l
 RT: 10.43 min Scan# 2692
 Delta R.T. 0.00 min
 Lab File: VN055452.D
 Acq: 7 May 2019 22:13

Tgt Ion:	69	Resp:	96905
Ion	Ratio	Lower	Upper
69	100		
41	79.0	62.7	94.1
39	40.8	32.0	48.0





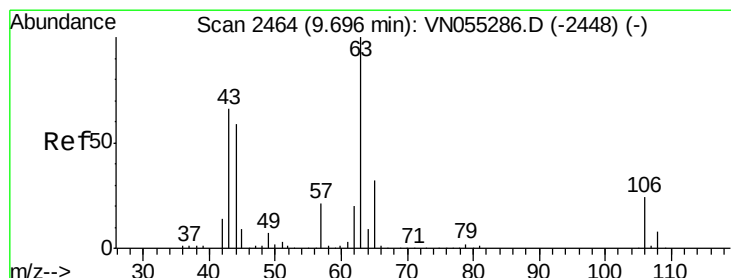
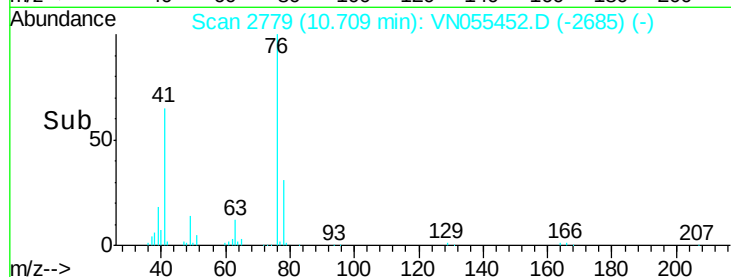
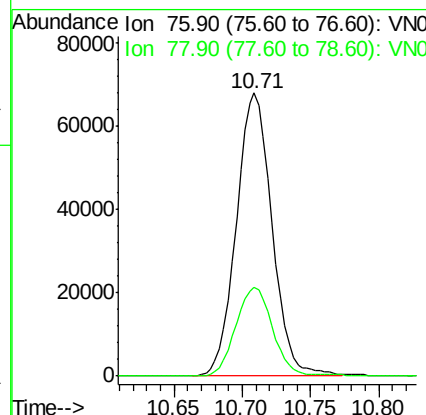
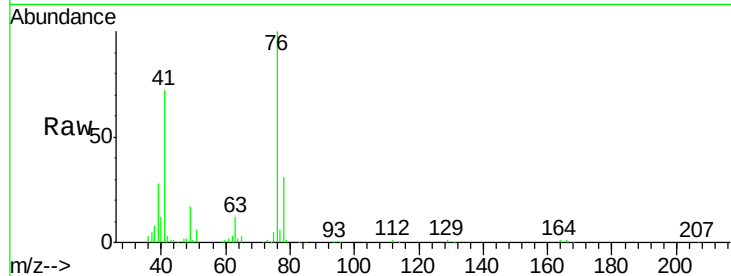
#57
 1,3-Dichloropropane
 Concen: 21.239 ug/l
 RT: 10.71 min Scan# 2779
 Delta R.T. 0.00 min
 Lab File: VN055452.D
 Acq: 7 May 2019 22:13

Instrument :
 MSVOA_N
 ClientSampleId :
 VN0507MBS02

Tot Ion	Ratio	Lower	Upper
76	100		
78	32.1	25.6	38.4

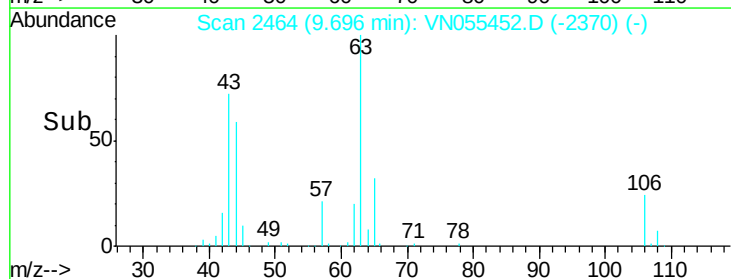
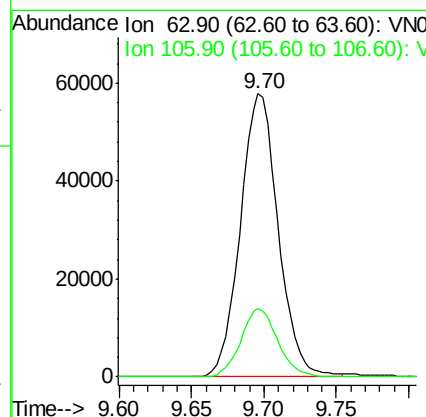
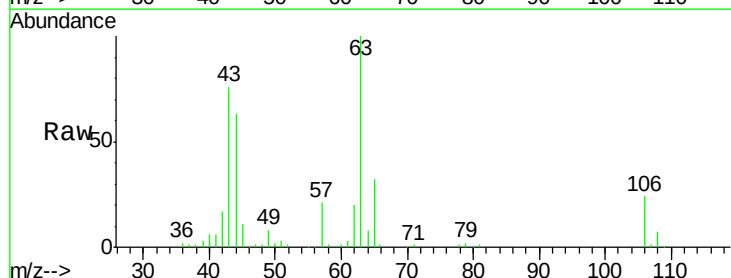
Manual Integrations
 APPROVED

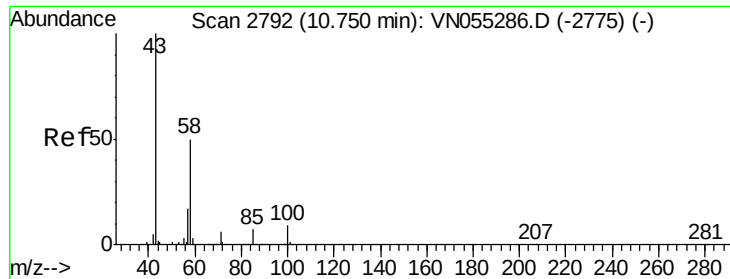
MMDadoda
 5/8/2019 10:16:23 AM



#58
 2-Chloroethyl Vinyl ether
 Concen: 91.037 ug/l
 RT: 9.70 min Scan# 2464
 Delta R.T. 0.00 min
 Lab File: VN055452.D
 Acq: 7 May 2019 22:13

Tgt Ion	Ratio	Lower	Upper
63	100		
106	23.5	19.0	28.4





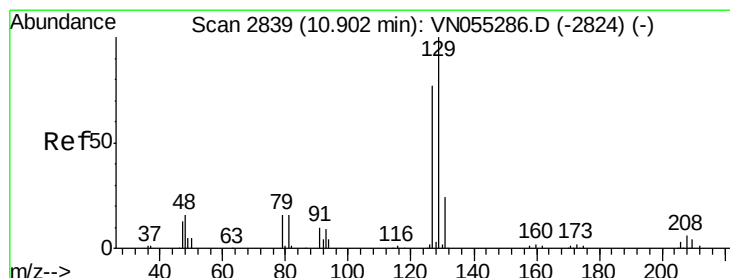
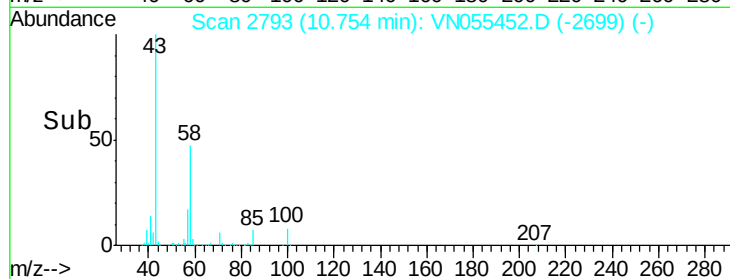
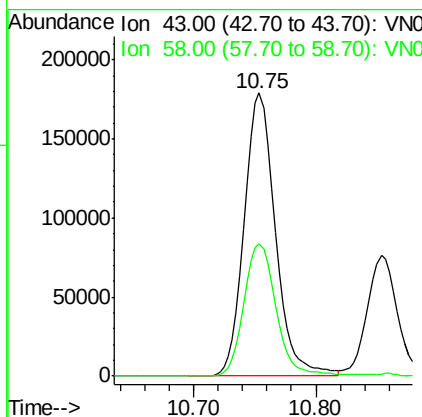
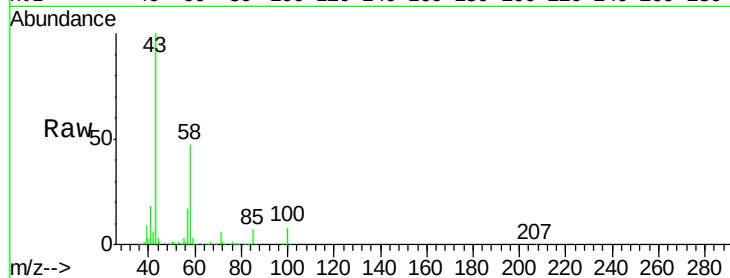
#59
2-Hexanone
Concen: 136.646 ug/l
RT: 10.75 min Scan# 2793
Delta R.T. 0.00 min
Lab File: VN055452.D
Acq: 7 May 2019 22:13

Instrument :
MSVOA_N
ClientSampleId :
VN0507MBS02

Tot Ion: 43 Resp: 313421
Ion Ratio Lower Upper
43 100
58 48.7 24.9 74.6

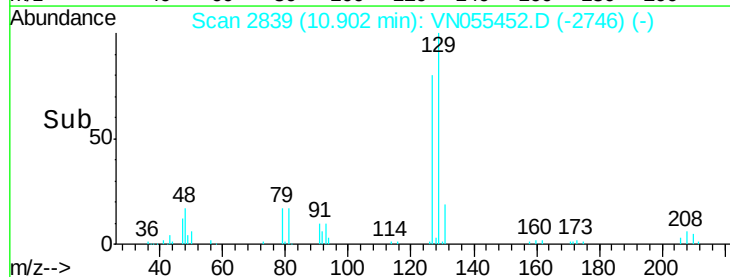
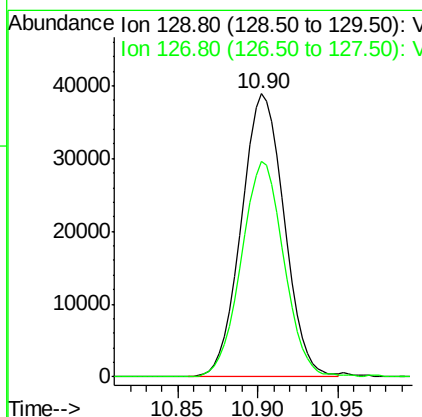
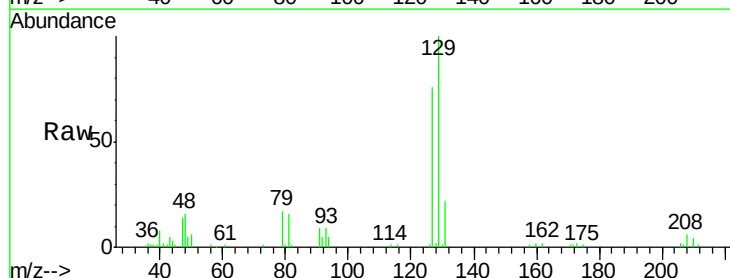
Manual Integrations
APPROVED

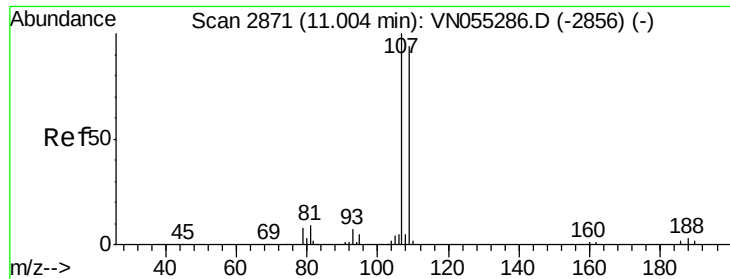
MMDadoda
5/8/2019 10:16:23 AM



#60
Dibromochloromethane
Concen: 20.983 ug/l
RT: 10.90 min Scan# 2839
Delta R.T. 0.00 min
Lab File: VN055452.D
Acq: 7 May 2019 22:13

Tgt Ion: 129 Resp: 71209
Ion Ratio Lower Upper
129 100
127 75.7 38.1 114.5





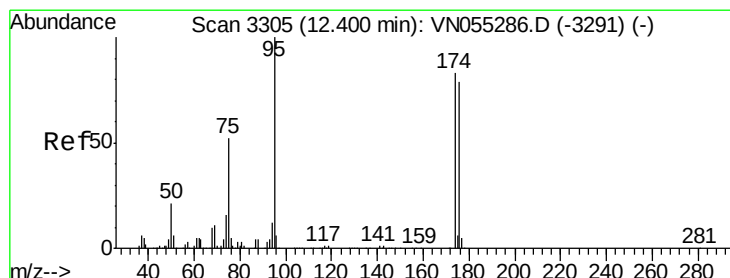
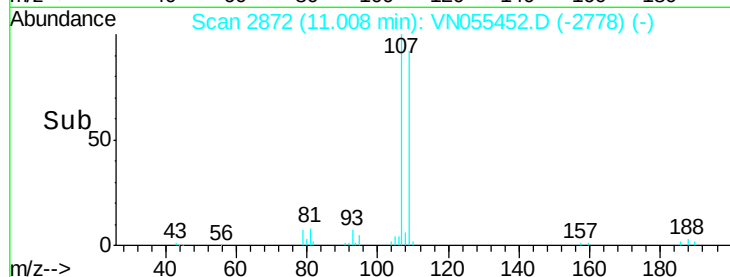
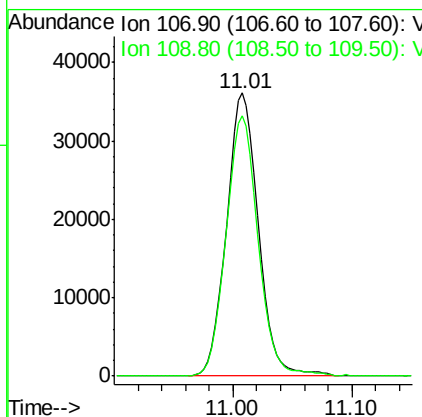
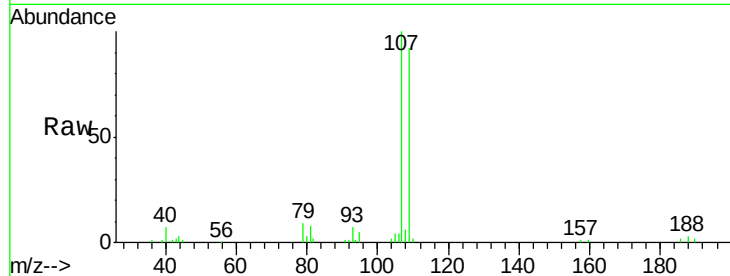
#61
 1,2-Dibromoethane
 Concen: 21.745 ug/l
 RT: 11.01 min Scan# 2872
 Delta R.T. 0.00 min
 Lab File: VN055452.D
 Acq: 7 May 2019 22:13

Instrument :
 MSVOA_N
 ClientSampleId :
 VN0507MBS02

Tot Ion: 107 Resp: 66735
 Ion Ratio Lower Upper
 107 100
 109 93.0 75.0 112.6

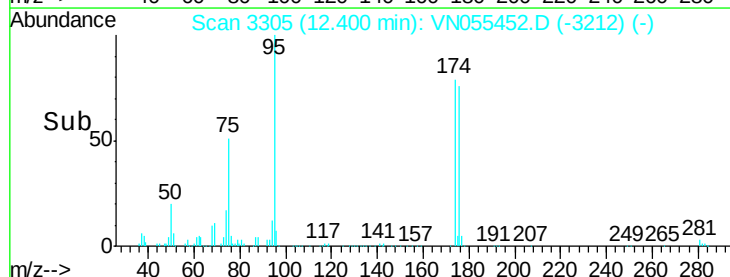
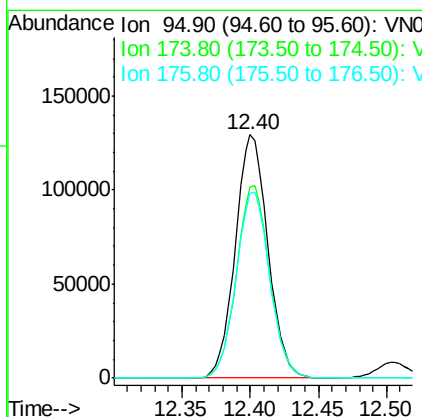
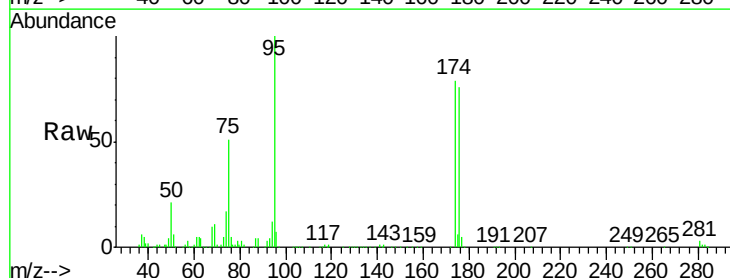
Manual Integrations
 APPROVED

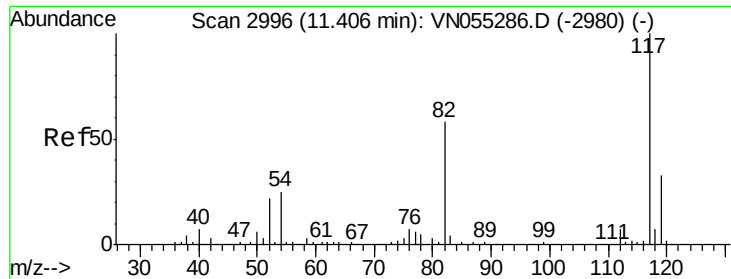
MMDadoda
 5/8/2019 10:16:23 AM



#62
 4-Bromofluorobenzene
 Concen: 52.511 ug/l
 RT: 12.40 min Scan# 3305
 Delta R.T. 0.00 min
 Lab File: VN055452.D
 Acq: 7 May 2019 22:13

Tgt Ion: 95 Resp: 214671
 Ion Ratio Lower Upper
 95 100
 174 80.2 0.0 166.6
 176 79.0 0.0 157.8





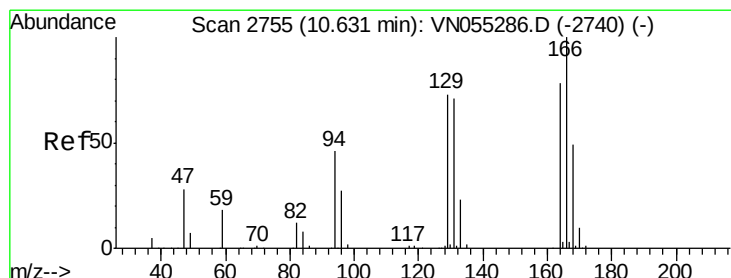
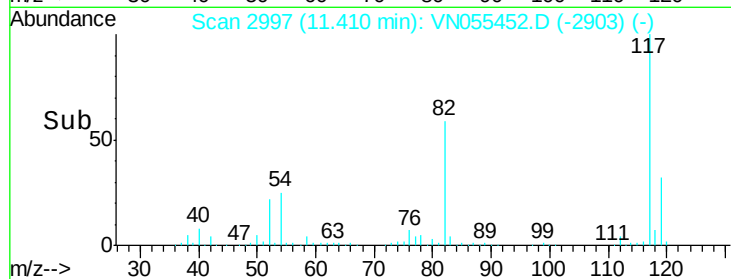
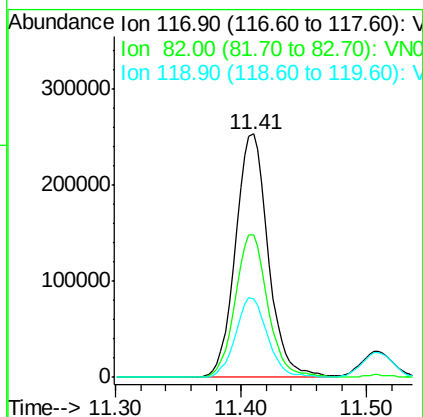
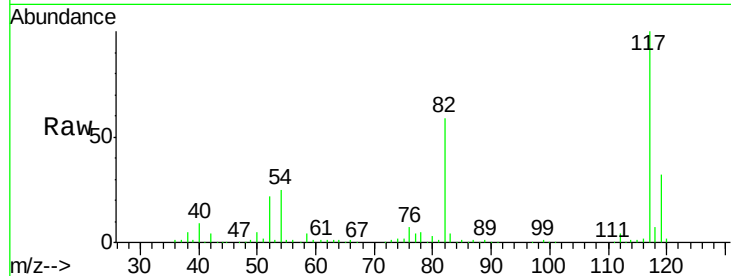
#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.41 min Scan# 2997
Delta R.T. 0.00 min
Lab File: VN055452.D
Acq: 7 May 2019 22:13

Instrument :
MSVOA_N
ClientSampled :
VN0507MBS02

Tot Ion	Ratio	Lower	Upper
117	100		
82	58.7	46.2	69.4
119	32.3	26.6	40.0

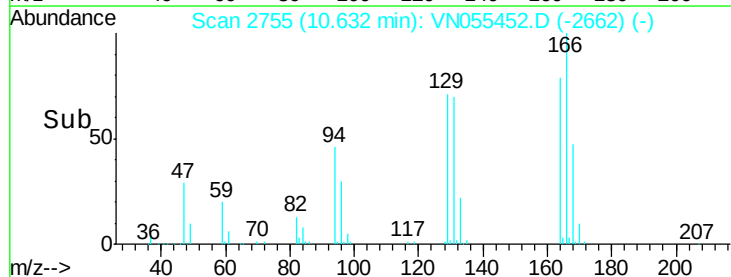
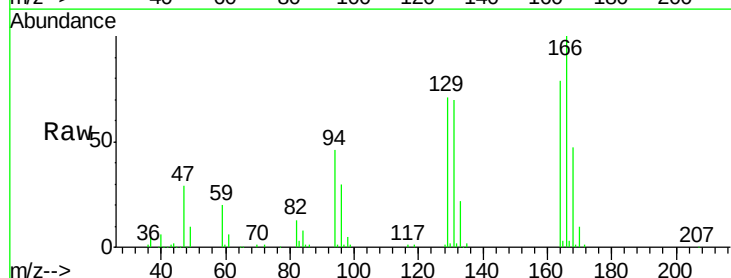
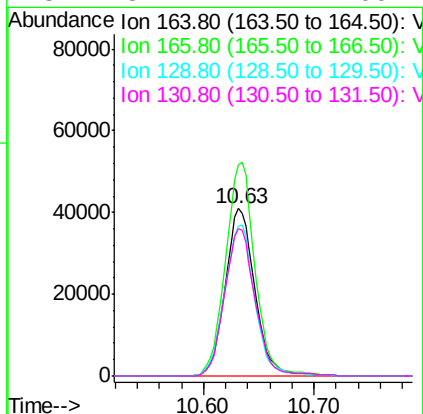
Manual Integrations
APPROVED

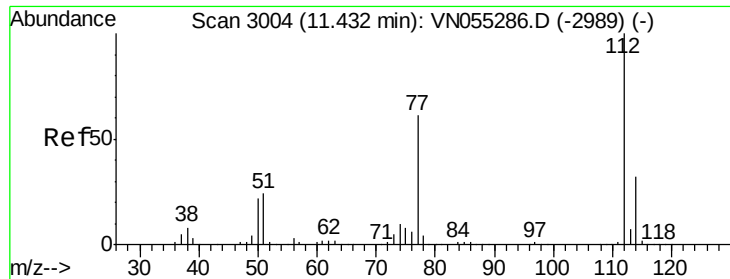
MMDadoda
5/8/2019 10:16:23 AM



#64
Tetrachloroethene
Concen: 20.326 ug/l
RT: 10.63 min Scan# 2755
Delta R.T. 0.00 min
Lab File: VN055452.D
Acq: 7 May 2019 22:13

Tgt Ion	Ratio	Lower	Upper
164	100		
166	125.9	102.3	153.5
129	89.5	75.0	112.6
131	87.7	72.7	109.1





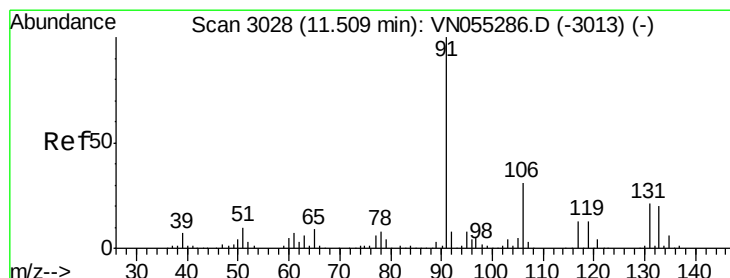
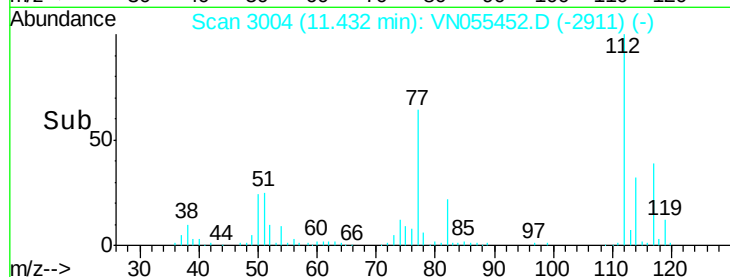
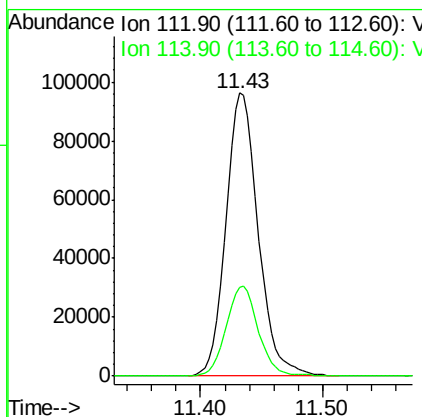
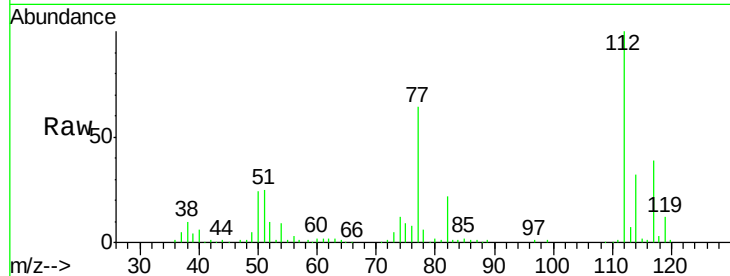
#65
Chlorobenzene
Concen: 19.830 ug/l
RT: 11.43 min Scan# 3004
Delta R.T. 0.00 min
Lab File: VN055452.D
Acq: 7 May 2019 22:13

Instrument :
MSVOA_N
ClientSampled :
VN0507MBS02

Tot Ion:112 Resp: 177858
Ion Ratio Lower Upper
112 100
114 31.5 25.3 37.9

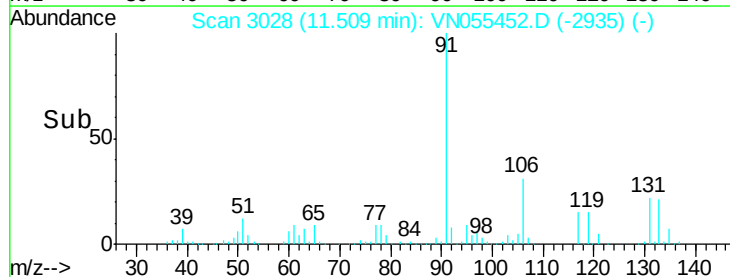
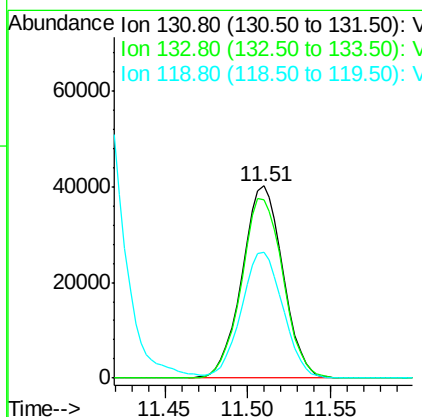
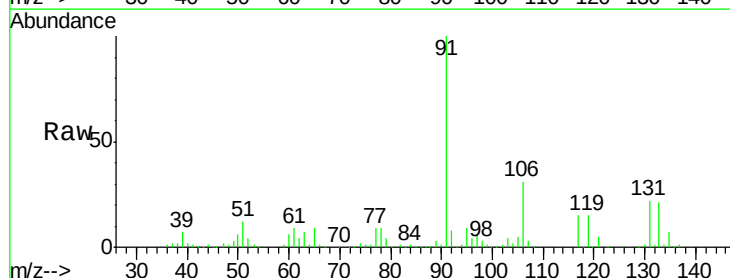
Manual Integrations
APPROVED

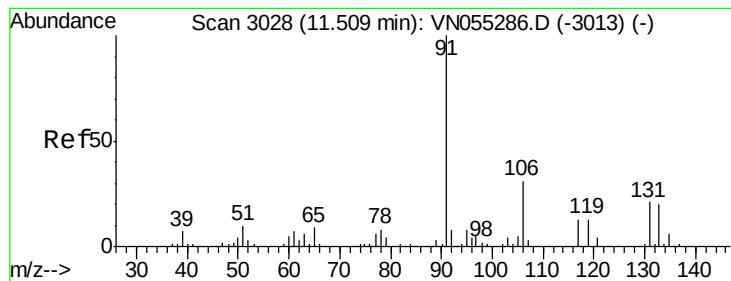
MMDadoda
5/8/2019 10:16:23 AM



#66
1,1,1,2-Tetrachloroethane
Concen: 19.652 ug/l
RT: 11.51 min Scan# 3028
Delta R.T. 0.00 min
Lab File: VN055452.D
Acq: 7 May 2019 22:13

Tgt Ion:131 Resp: 69017
Ion Ratio Lower Upper
131 100
133 95.3 47.5 142.6
119 66.6 32.7 98.1





#67

Ethyl Benzene

Concen: 19.646 ug/l

RT: 11.51 min Scan# 3028

Delta R.T. 0.00 min

Lab File: VN055452.D

Acq: 7 May 2019 22:13

Instrument :

MSVOA_N

ClientSampleId :

VN0507MBS02

Tot Ion: 91 Resp: 318196

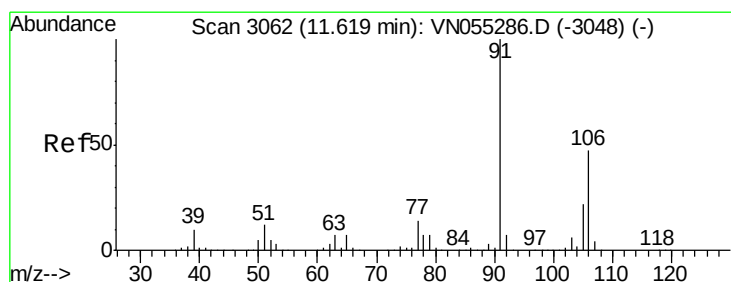
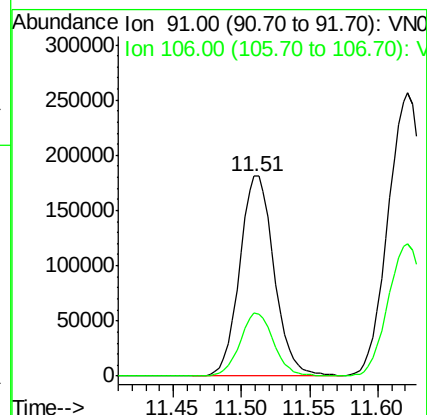
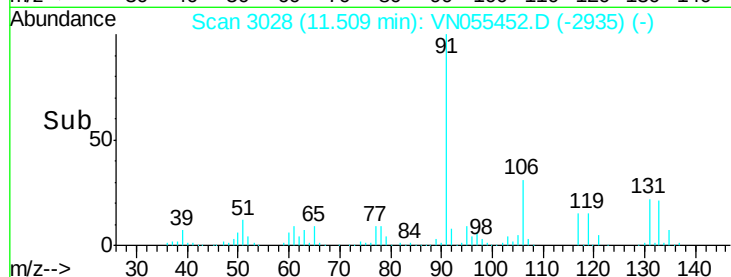
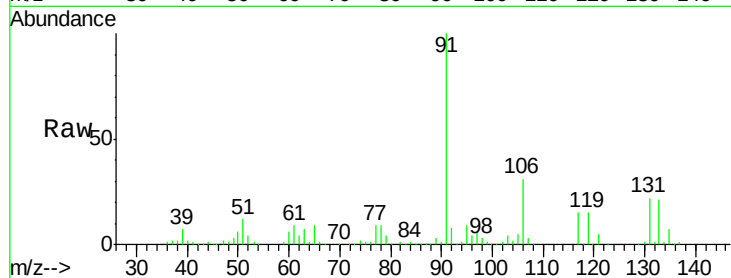
Ion Ratio Lower Upper

91 100

106 31.4 24.6 36.8

Manual Integrations
APPROVED

MMDadoda
5/8/2019 10:16:23 AM



#68

m/p-Xylenes

Concen: 40.263 ug/l

RT: 11.62 min Scan# 3063

Delta R.T. 0.00 min

Lab File: VN055452.D

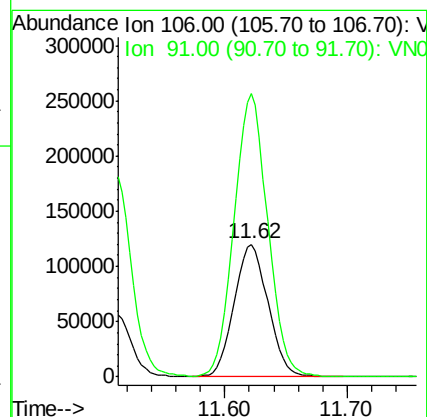
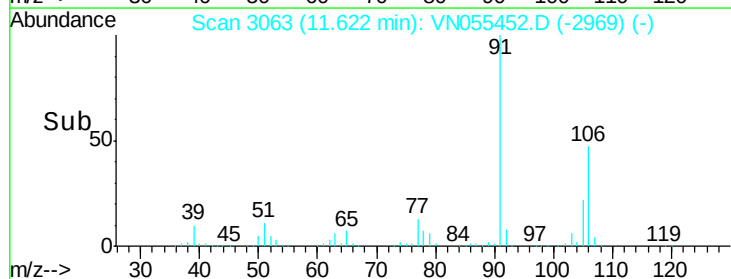
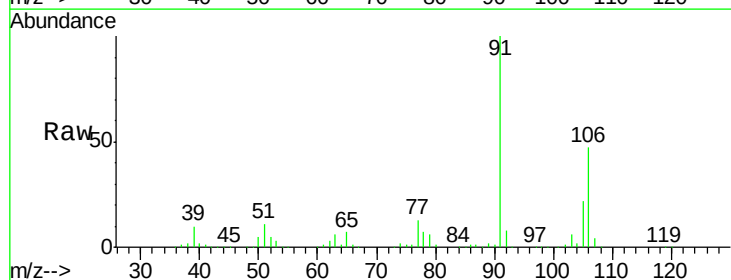
Acq: 7 May 2019 22:13

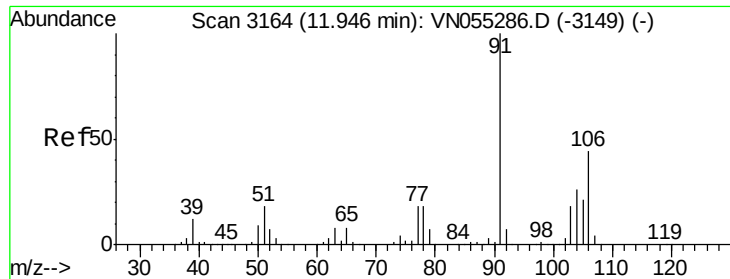
Tgt Ion: 106 Resp: 232769

Ion Ratio Lower Upper

106 100

91 211.6 169.5 254.3





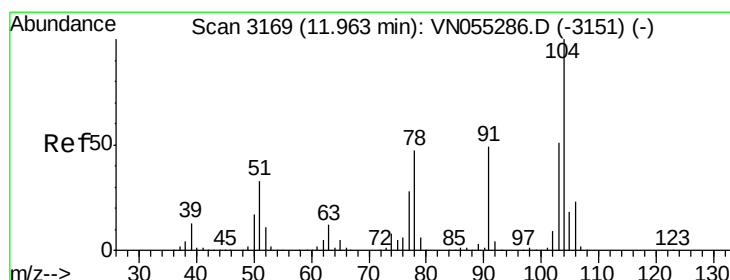
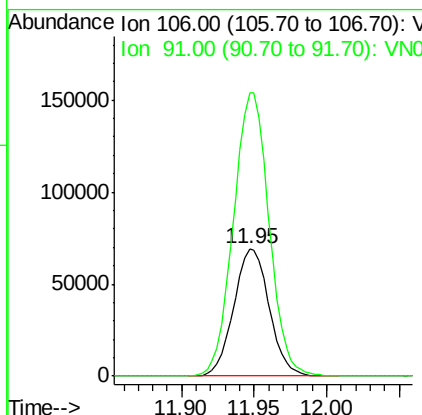
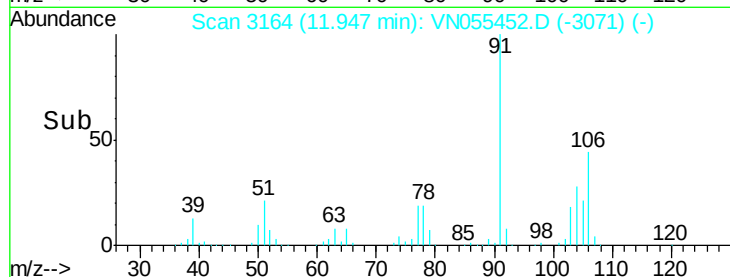
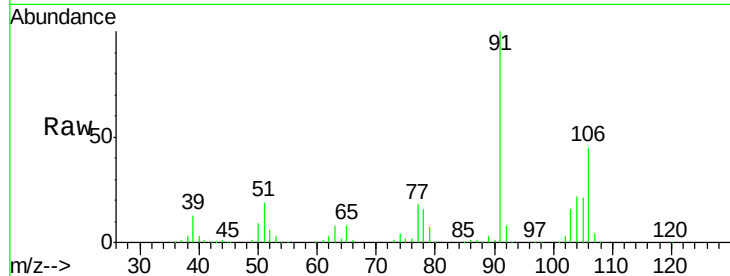
#69
o-Xylene
Concen: 20.539 ug/l
RT: 11.95 min Scan# 3164
Delta R.T. 0.00 min
Lab File: VN055452.D
Acq: 7 May 2019 22:13

Instrument :
MSVOA_N
ClientSampled :
VN0507MBS02

Tot Ion:106 Resp: 117691
Ion Ratio Lower Upper
106 100
91 223.2 111.5 334.5

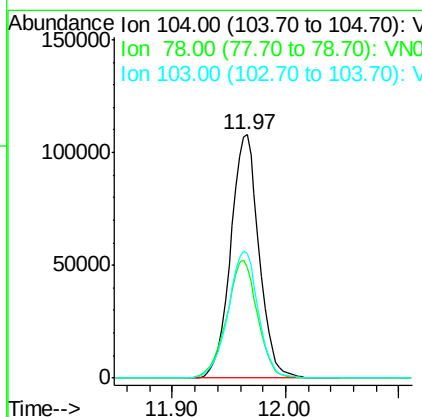
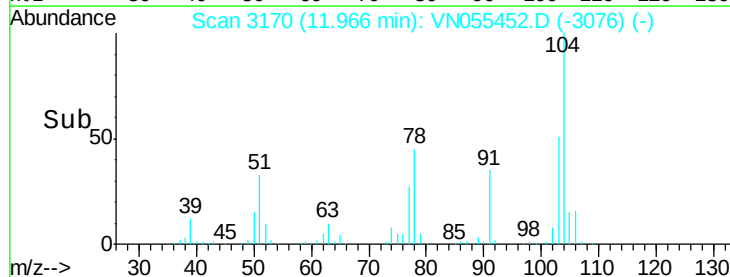
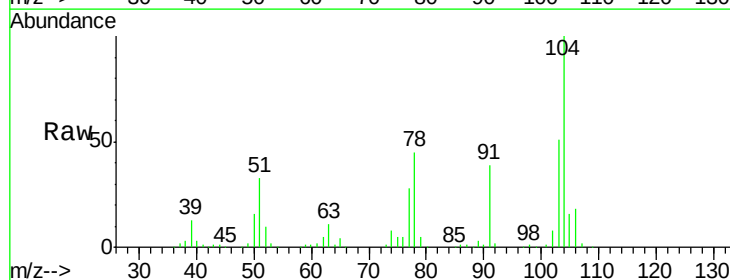
Manual Integrations
APPROVED

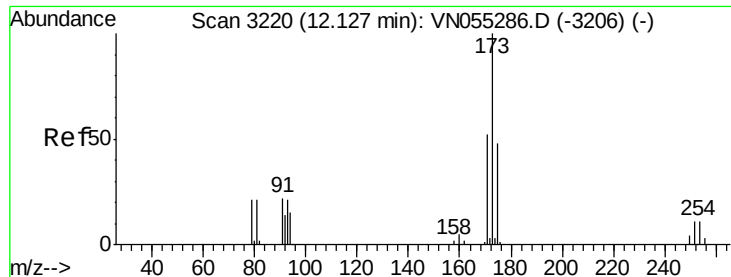
MMDadoda
5/8/2019 10:16:23 AM



#70
Styrene
Concen: 21.355 ug/l
RT: 11.97 min Scan# 3170
Delta R.T. 0.00 min
Lab File: VN055452.D
Acq: 7 May 2019 22:13

Tgt Ion:104 Resp: 187885
Ion Ratio Lower Upper
104 100
78 52.7 42.2 63.2
103 55.8 44.6 67.0





#71

Bromoform

Concen: 22.533 ug/l

RT: 12.13 min Scan# 3220

Delta R.T. 0.00 min

Lab File: VN055452.D

Acq: 7 May 2019 22:13

Instrument :

MSVOA_N

ClientSampled :

VN0507MBS02

Tot Ion:173 Resp: 43912

Ion Ratio Lower Upper

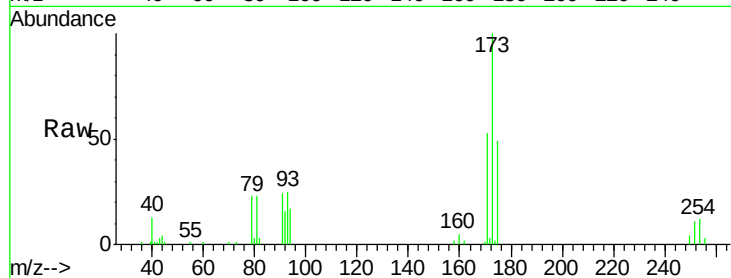
173 100

175 48.0 23.6 71.0

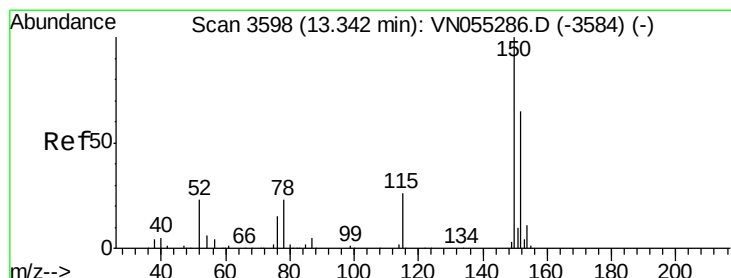
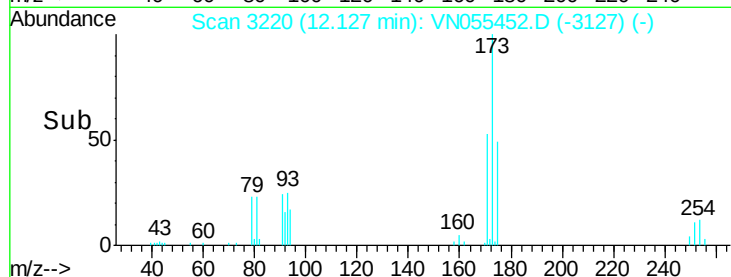
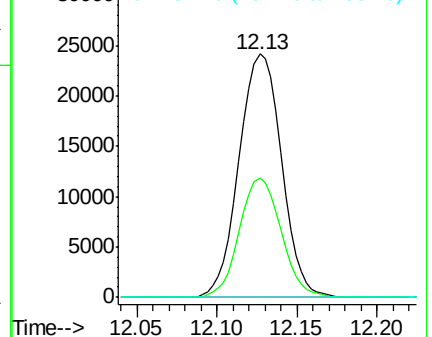
254 0.0 0.0 0.0

Manual Integrations
APPROVED

MMDadoda
5/8/2019 10:16:23 AM



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



#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

RT: 13.35 min Scan# 3599

Delta R.T. 0.00 min

Lab File: VN055452.D

Acq: 7 May 2019 22:13

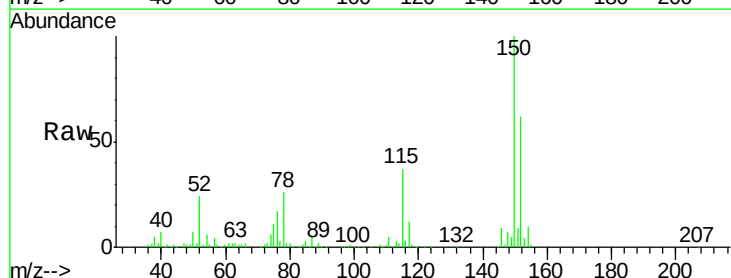
Tgt Ion:152 Resp: 179408

Ion Ratio Lower Upper

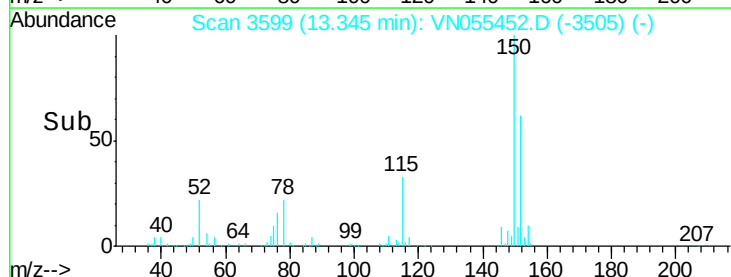
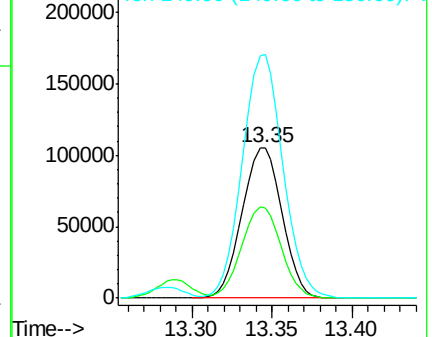
152 100

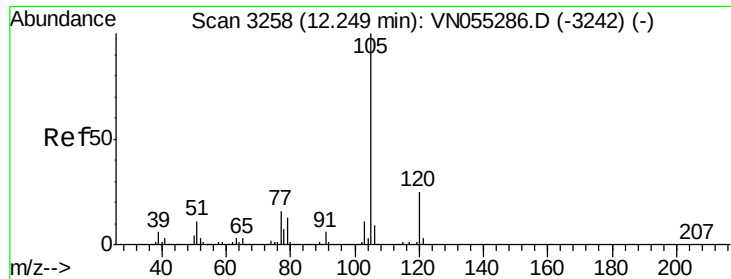
115 60.2 29.0 87.0

150 164.5 0.0 345.6



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





#73

Isopropylbenzene

Concen: 20.576 ug/l

RT: 12.25 min Scan# 3258

Delta R.T. 0.00 min

Lab File: VN055452.D

Acq: 7 May 2019 22:13

Instrument :

MSVOA_N

ClientSampled :

VN0507MBS02

Tot Ion:105 Resp: 320296

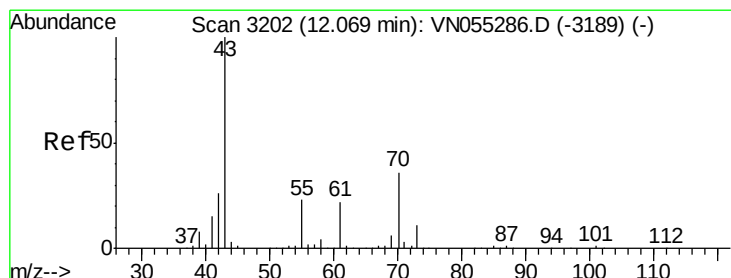
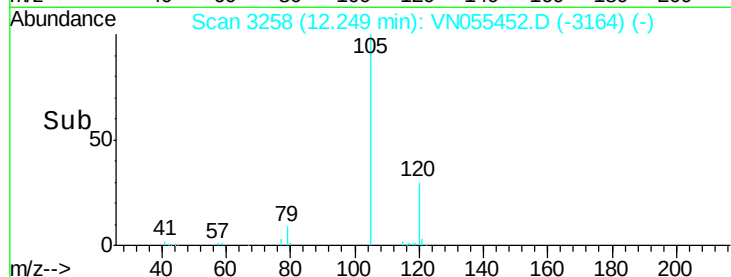
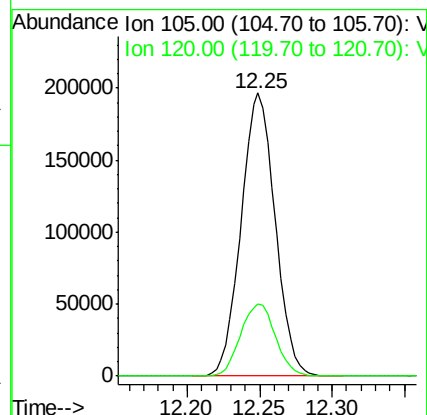
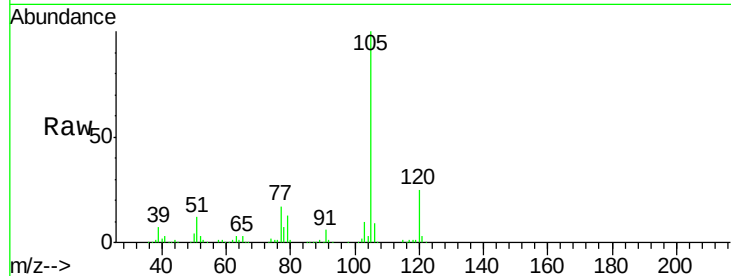
Ion Ratio Lower Upper

105 100

120 26.3 12.9 38.7

Manual Integrations
APPROVED

MMDadoda
5/8/2019 10:16:23 AM



#74

N-ethyl acetate

Concen: 24.405 ug/l

RT: 12.07 min Scan# 3202

Delta R.T. 0.00 min

Lab File: VN055452.D

Acq: 7 May 2019 22:13

Tgt Ion: 43 Resp: 112370

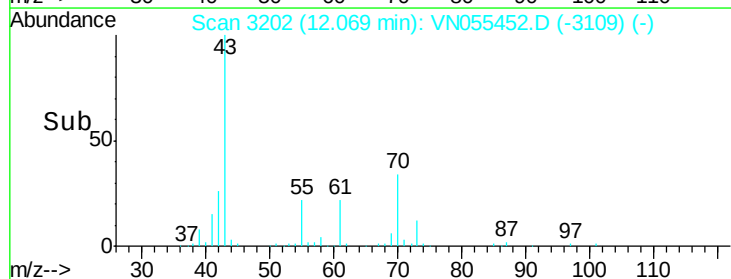
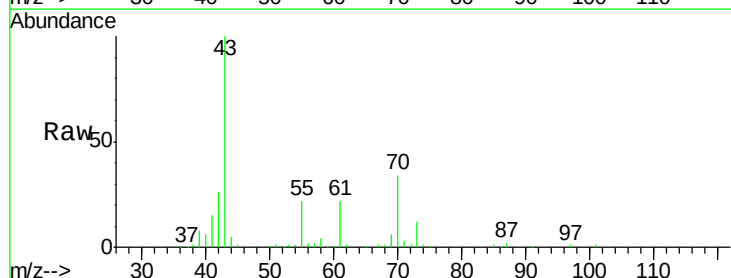
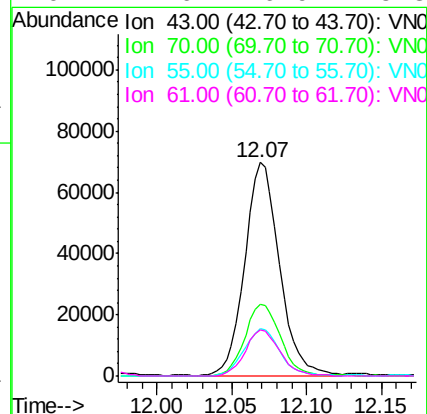
Ion Ratio Lower Upper

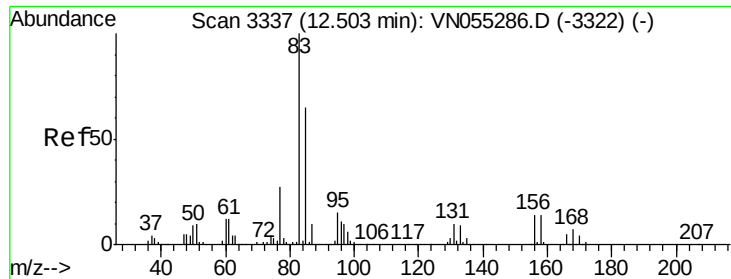
43 100

70 34.9 27.9 41.9

55 23.0 18.2 27.2

61 21.6 16.9 25.3





#75

1,1,2,2-Tetrachloroethane

Concen: 24.153 ug/l

RT: 12.50 min Scan# 3337

Delta R.T. 0.00 min

Lab File: VN055452.D

Acq: 7 May 2019 22:13

Instrument :

MSVOA_N

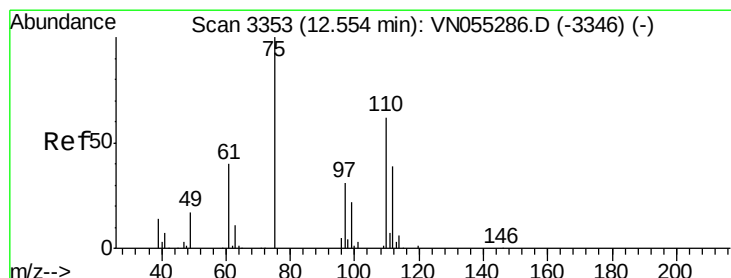
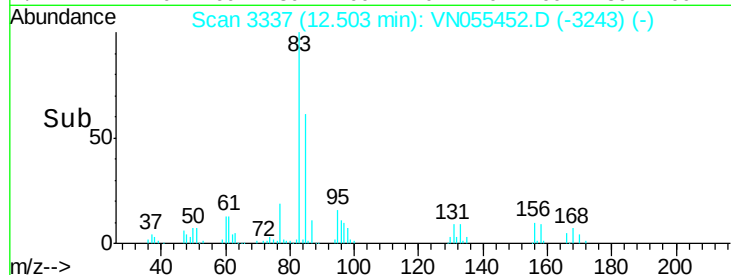
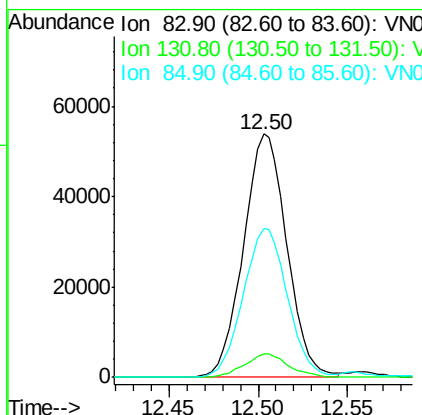
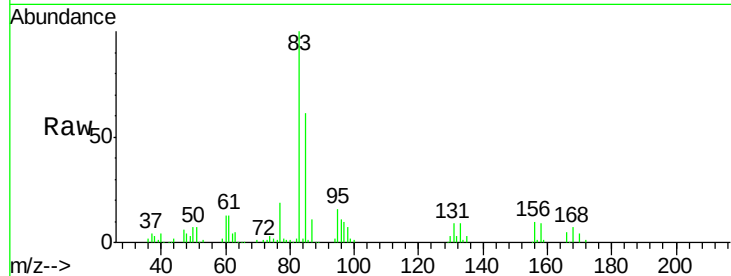
ClientSampled :

VN0507MBS02

Tot Ion:	83	Resp:	91701
Ion Ratio	Lower	Upper	
83	100		
131	9.6	5.1	15.2
85	62.1	32.3	96.8

Manual Integrations
APPROVED

MMDadoda
5/8/2019 10:16:23 AM



#76

1,2,3-Trichloropropane

Concen: 23.158 ug/l m

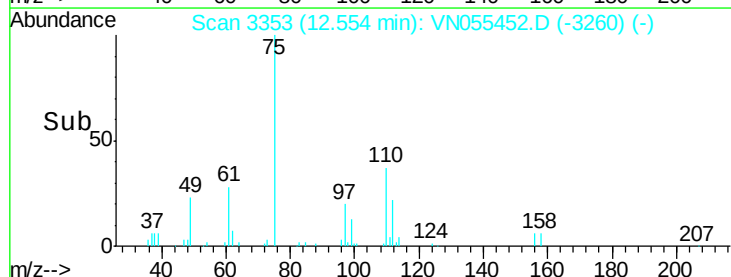
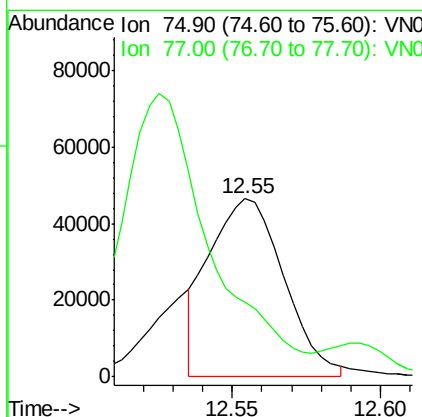
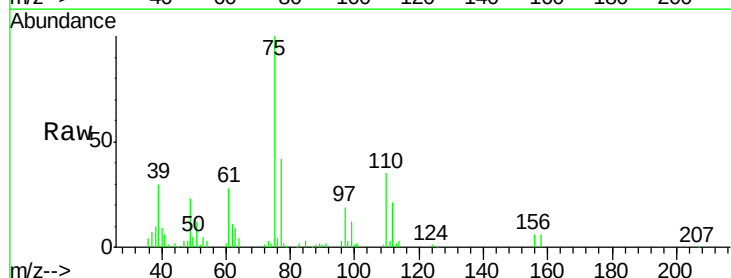
RT: 12.55 min Scan# 3353

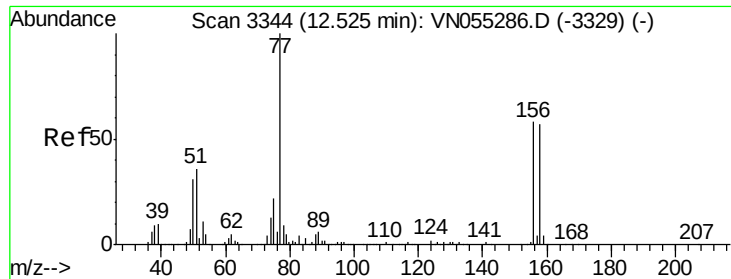
Delta R.T. 0.00 min

Lab File: VN055452.D

Acq: 7 May 2019 22:13

Tgt Ion:	75	Resp:	81732
Ion Ratio	Lower	Upper	
75	100		
77	0.0	0.0	0.0





#77

Bromobenzene

Concen: 20.473 ug/l

RT: 12.53 min Scan# 3344

Delta R.T. 0.00 min

Lab File: VN055452.D

Acq: 7 May 2019 22:13

Instrument :

MSVOA_N

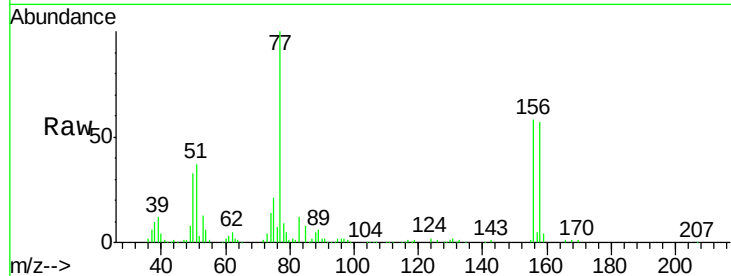
ClientSampled :

VN0507MBS02

Tot Ion:	156	Resp:	74525
Ion Ratio	Lower	Upper	
156	100		
77	207.4	99.6	298.8
158	97.6	49.3	147.8

Manual Integrations
APPROVED

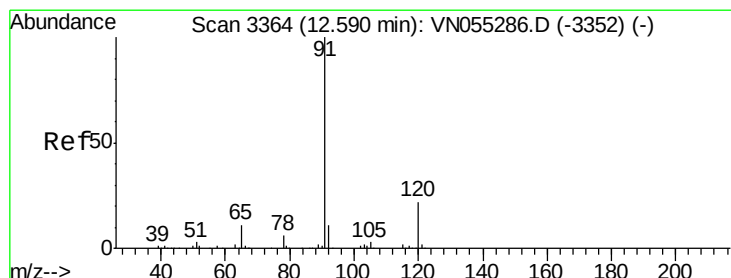
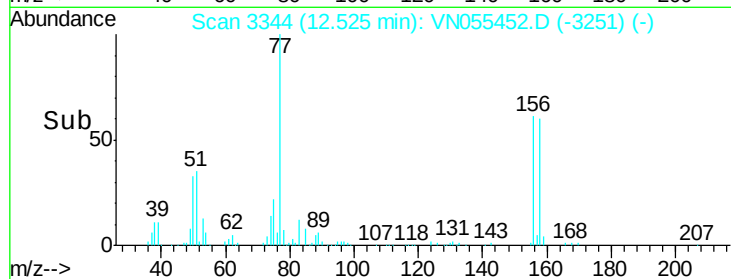
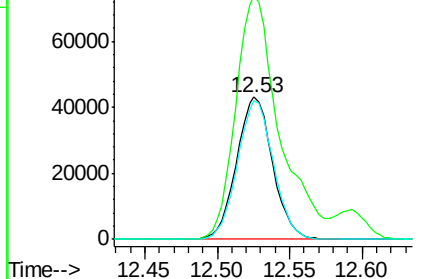
MMDadoda
5/8/2019 10:16:23 AM



Abundance Ion 155.80 (155.50 to 156.50): V

Ion 77.00 (76.70 to 77.70): VN0

Ion 157.80 (157.50 to 158.50): V



#78

n-propylbenzene

Concen: 18.649 ug/l

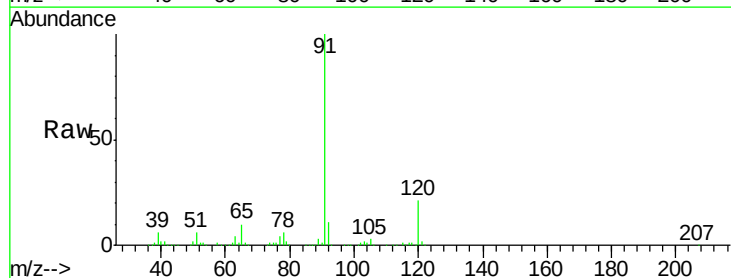
RT: 12.59 min Scan# 3364

Delta R.T. 0.00 min

Lab File: VN055452.D

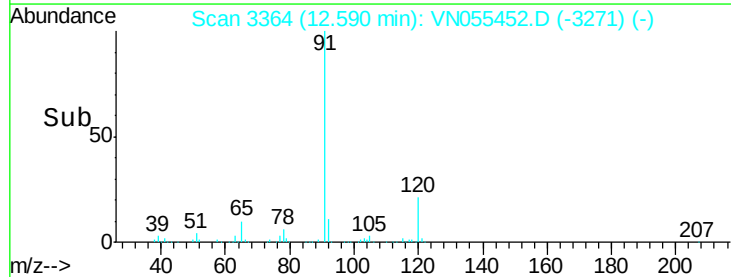
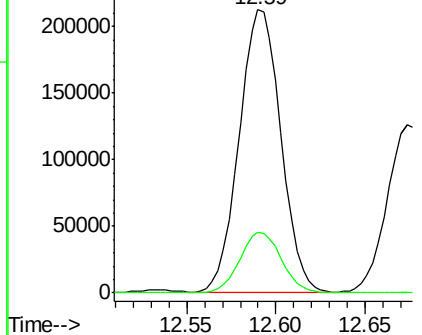
Acq: 7 May 2019 22:13

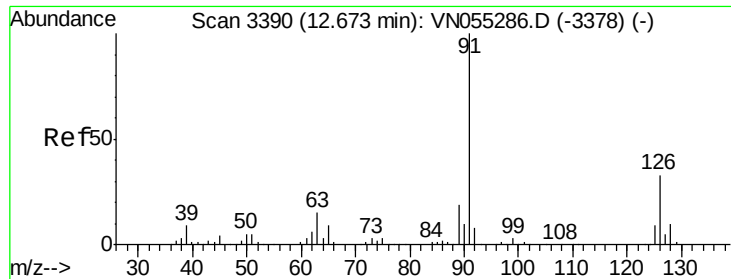
Tgt Ion:	91	Resp:	343689
Ion Ratio	Lower	Upper	
91	100		
120	21.6	11.0	33.0



Abundance Ion 91.00 (90.70 to 91.70): VN0

Ion 120.00 (119.70 to 120.70): V





#79

2-Chlorotoluene

Concen: 20.656 ug/l

RT: 12.67 min Scan# 3390

Delta R.T. 0.00 min

Lab File: VN055452.D

Acq: 7 May 2019 22:13

Instrument :

MSVOA_N

ClientSampled :

VN0507MBS02

Tot Ion: 91 Resp: 216034

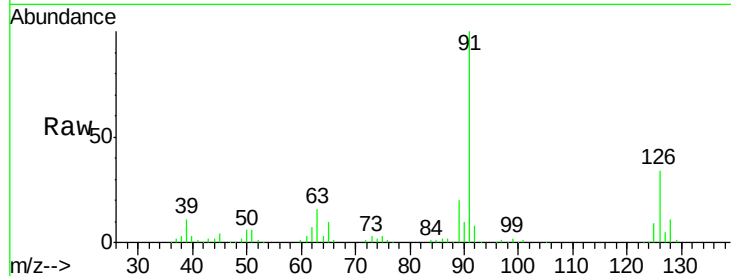
Ion Ratio Lower Upper

91 100

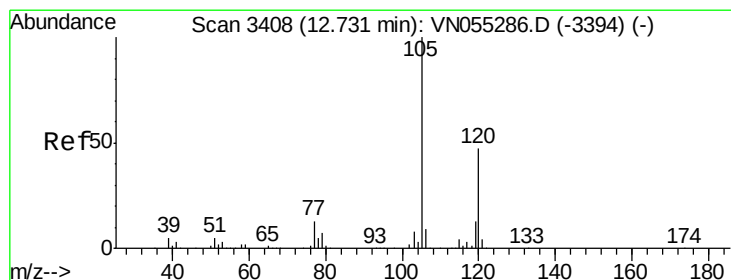
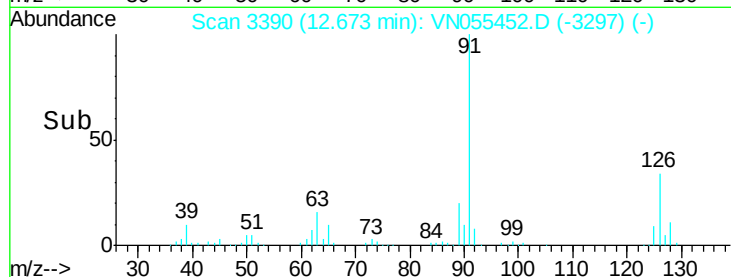
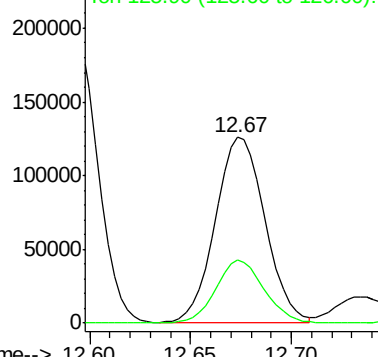
126 33.2 16.6 49.7

Manual Integrations
APPROVED

MMDadoda
5/8/2019 10:16:23 AM



Abundance Ion 91.00 (90.70 to 91.70): VN055452.D (-3297) (-)



#80

1,3,5-Trimethylbenzene

Concen: 18.936 ug/l

RT: 12.73 min Scan# 3409

Delta R.T. 0.00 min

Lab File: VN055452.D

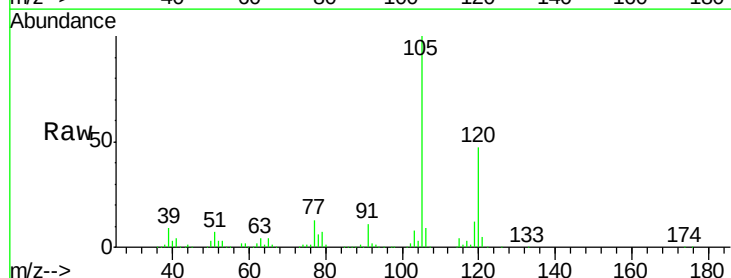
Acq: 7 May 2019 22:13

Tgt Ion: 105 Resp: 266340

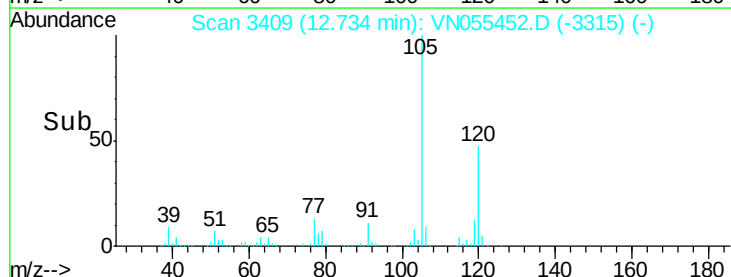
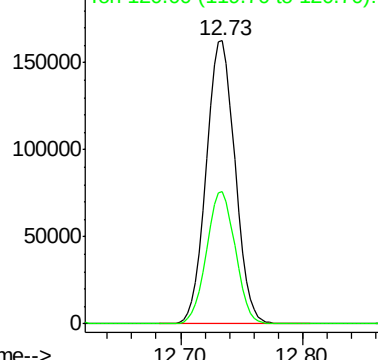
Ion Ratio Lower Upper

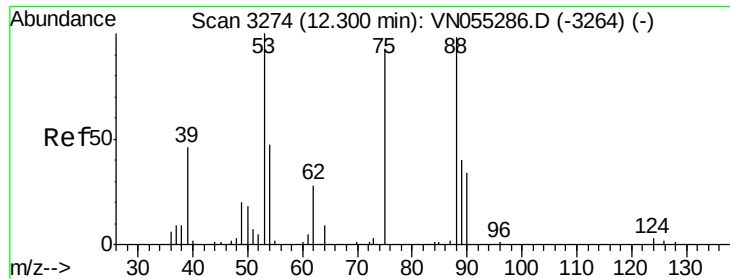
105 100

120 46.5 23.4 70.0



Abundance Ion 105.00 (104.70 to 105.70): VN055452.D (-3315) (-)





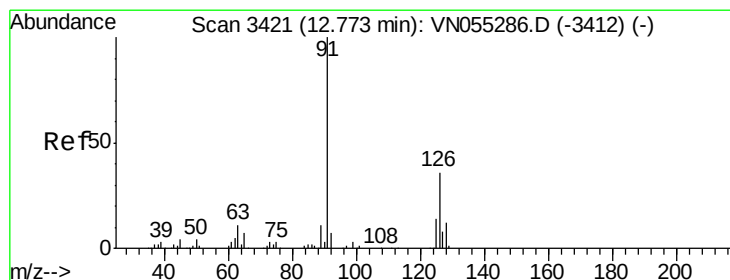
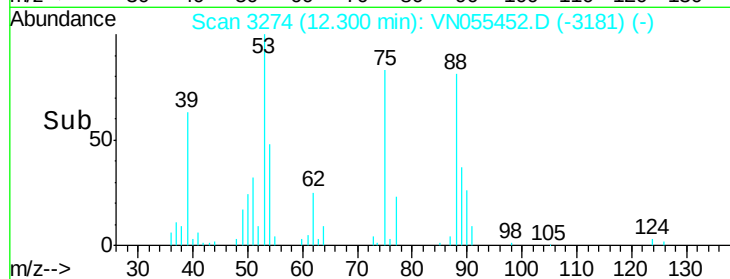
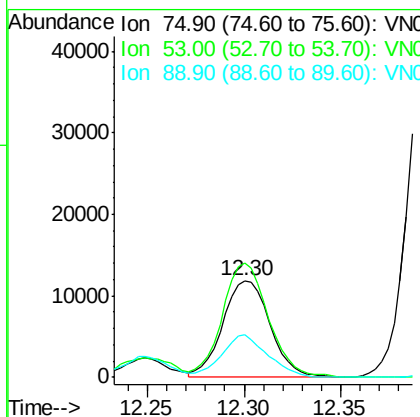
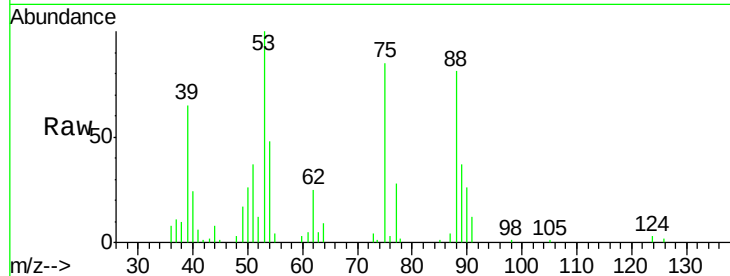
#81
trans-1,4-Dichloro-2-butene
Concen: 21.372 ug/l
RT: 12.30 min Scan# 3274
Delta R.T. 0.00 min
Lab File: VN055452.D
Acq: 7 May 2019 22:13

Instrument :
MSVOA_N
ClientSampled :
VN0507MBS02

Tot Ion	Ratio	Lower	Upper
75	100		
53	115.1	86.3	129.5
89	42.9	34.6	51.8

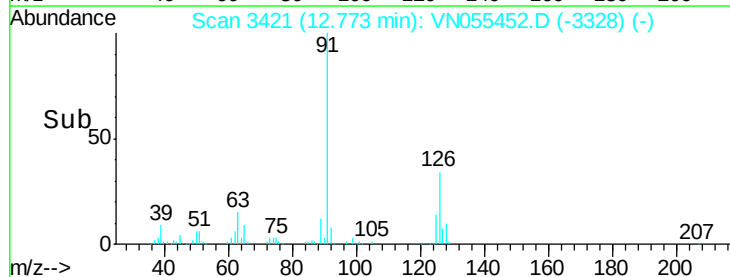
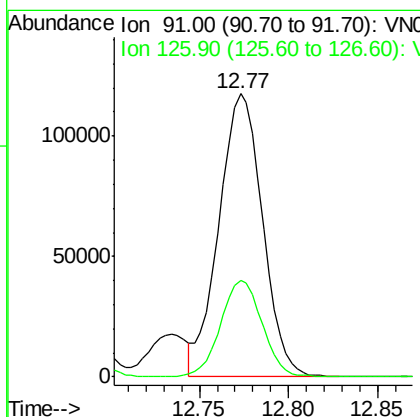
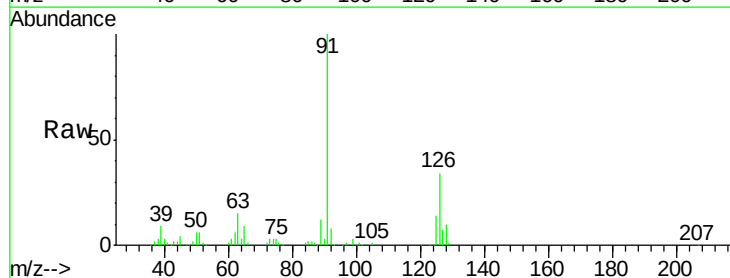
Manual Integrations
APPROVED

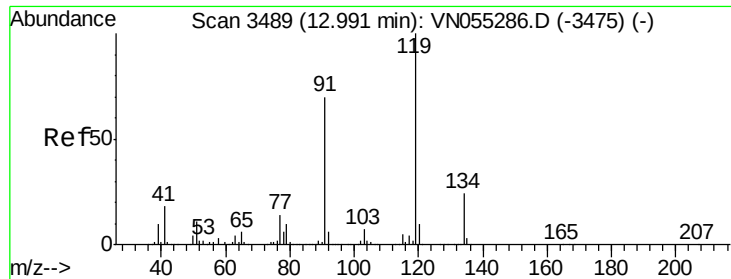
MMDadoda
5/8/2019 10:16:23 AM



#82
4-Chlorotoluene
Concen: 18.570 ug/l
RT: 12.77 min Scan# 3421
Delta R.T. 0.00 min
Lab File: VN055452.D
Acq: 7 May 2019 22:13

Tgt Ion	Ratio	Lower	Upper
91	100		
126	32.8	16.6	49.7





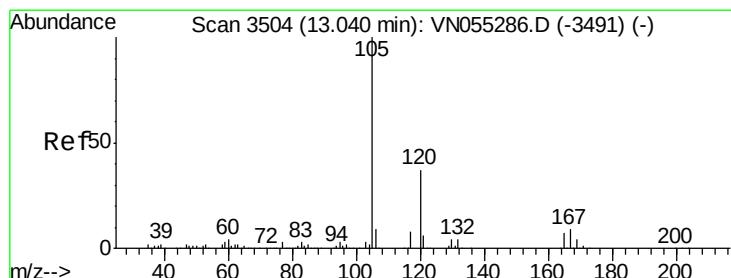
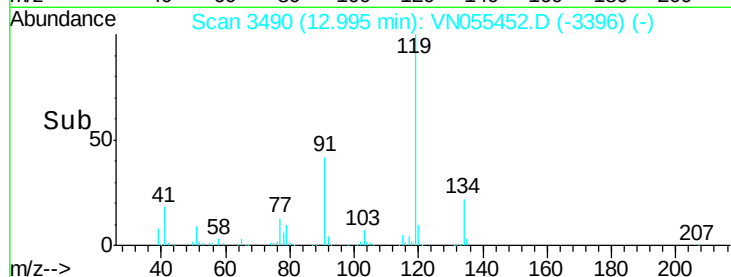
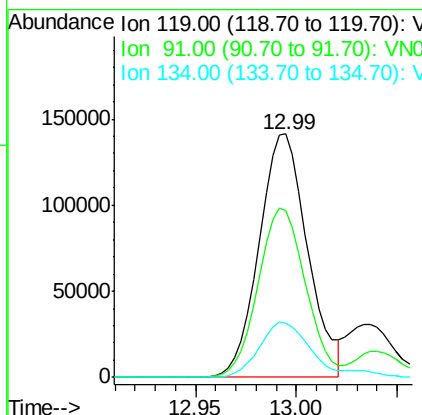
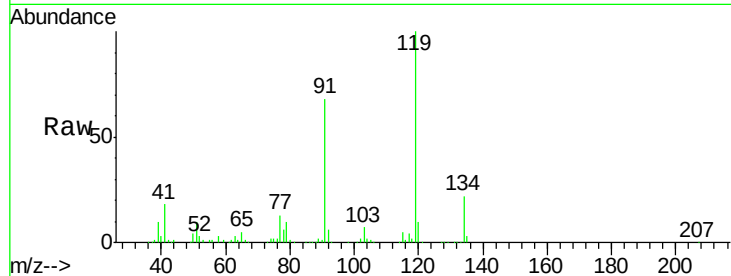
#83
 tert-Butylbenzene
 Concen: 22.113 ug/l
 RT: 12.99 min Scan# 3490
 Delta R.T. 0.00 min
 Lab File: VN055452.D
 Acq: 7 May 2019 22:13

Instrument :
 MSVOA_N
 ClientSampled :
 VN0507MBS02

Tot Ion	Ratio	Lower	Upper
119	100		
91	68.2	34.3	102.9
134	25.2	13.1	39.3

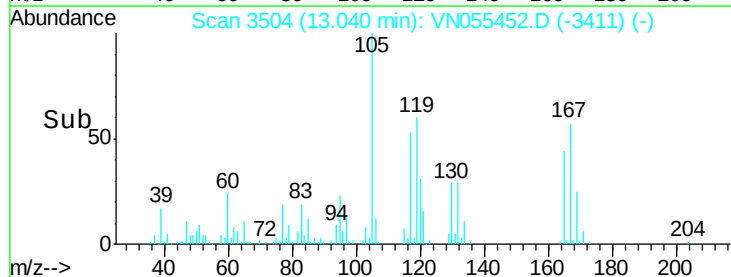
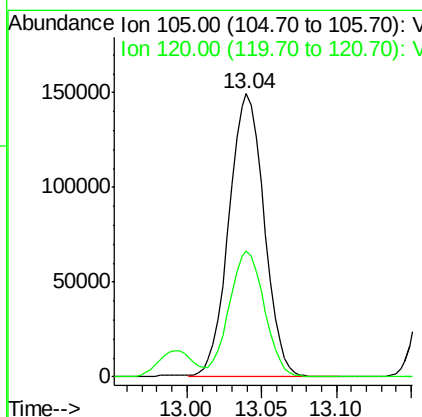
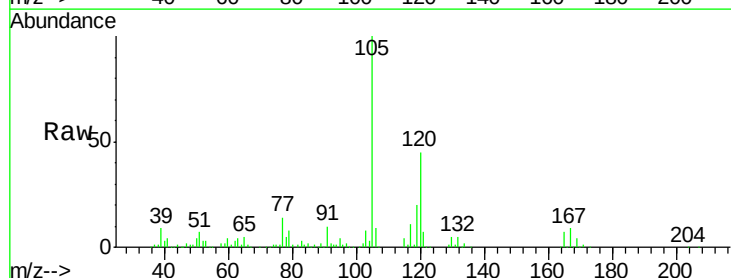
Manual Integrations
 APPROVED

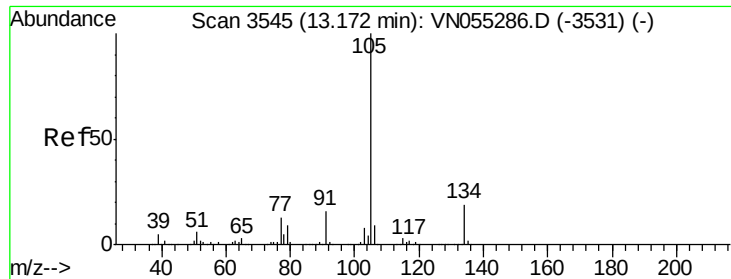
MMDadoda
 5/8/2019 10:16:23 AM



#84
 1,2,4-Trimethylbenzene
 Concen: 19.516 ug/l
 RT: 13.04 min Scan# 3504
 Delta R.T. 0.00 min
 Lab File: VN055452.D
 Acq: 7 May 2019 22:13

Tgt Ion	Ratio	Lower	Upper
105	100		
120	44.4	22.1	66.5





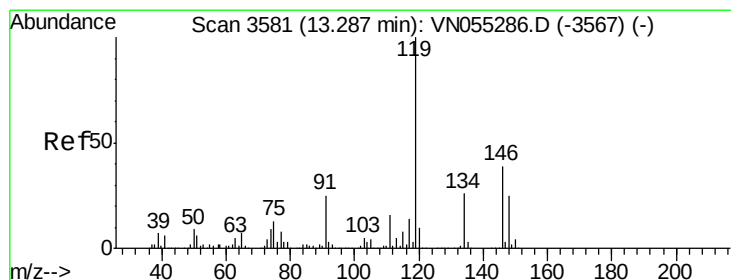
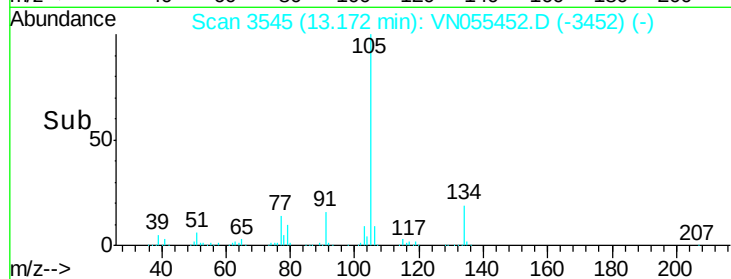
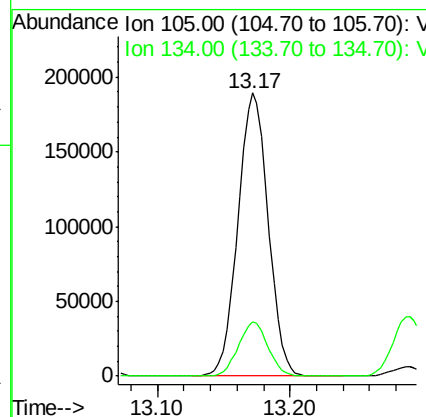
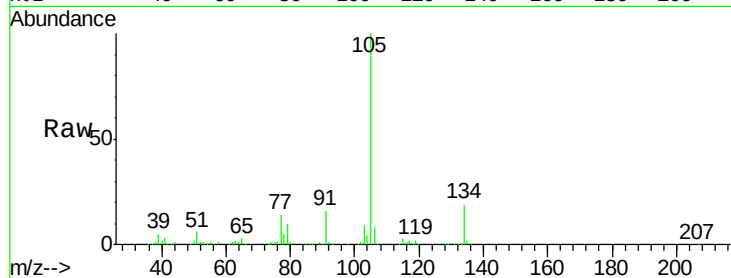
#85
 sec-Butylbenzene
 Concen: 19.557 ug/l
 RT: 13.17 min Scan# 3545
 Delta R.T. 0.00 min
 Lab File: VN055452.D
 Acq: 7 May 2019 22:13

Instrument :
 MSVOA_N
 ClientSampleId :
 VN0507MBS02

Tot Ion	Ratio	Resp	Lower	Upper
105	100	298967		
134	18.8	9.6	28.8	

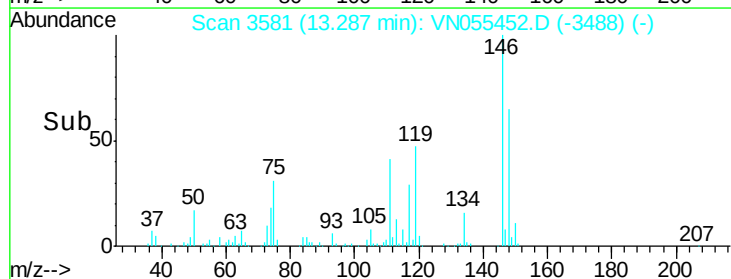
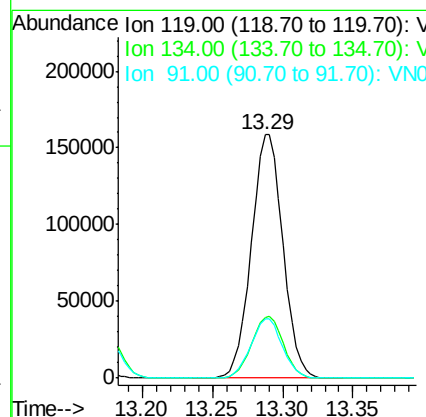
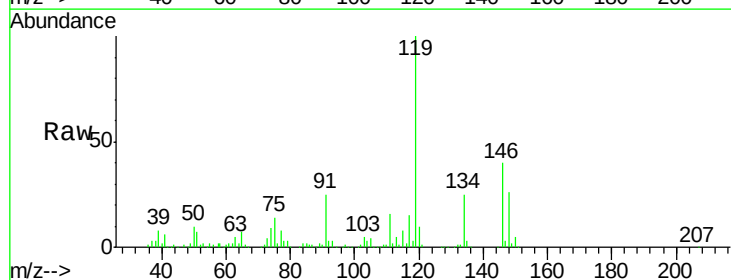
Manual Integrations
 APPROVED

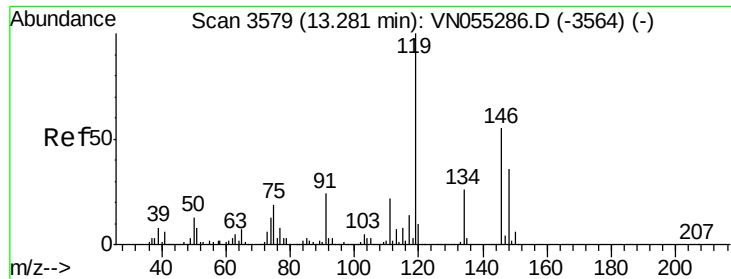
MMDadoda
 5/8/2019 10:16:23 AM



#86
 p-Isopropyltoluene
 Concen: 19.702 ug/l
 RT: 13.29 min Scan# 3581
 Delta R.T. 0.00 min
 Lab File: VN055452.D
 Acq: 7 May 2019 22:13

Tgt Ion	Ratio	Resp	Lower	Upper
119	100	247556		
134	25.7	13.0	38.9	
91	24.6	12.2	36.6	





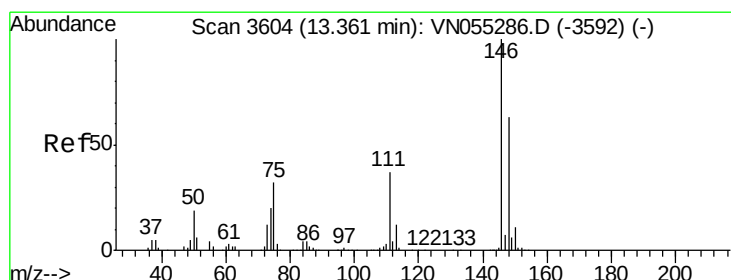
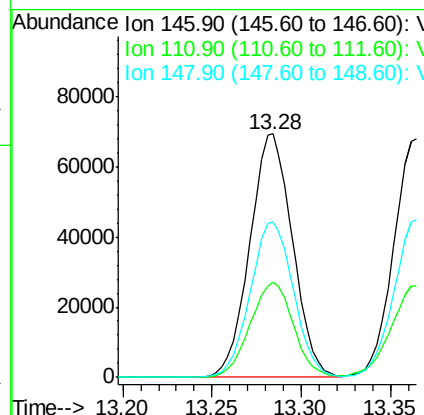
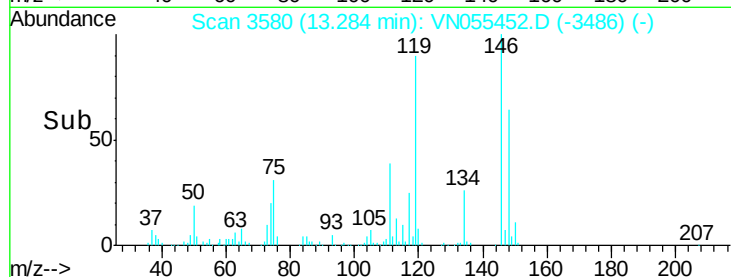
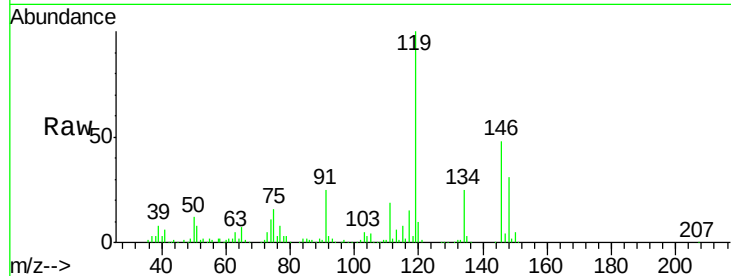
#87
 1,3-Dichlorobenzene
 Concen: 19.374 ug/l
 RT: 13.28 min Scan# 3580
 Delta R.T. 0.00 min
 Lab File: VN055452.D
 Acq: 7 May 2019 22:13

Instrument :
 MSVOA_N
 ClientSampleId :
 VN0507MBS02

Tot Ion	Ratio	Resp	Lower	Upper
146	100	116313		
111	39.5	20.3	60.8	
148	64.5	32.5	97.5	

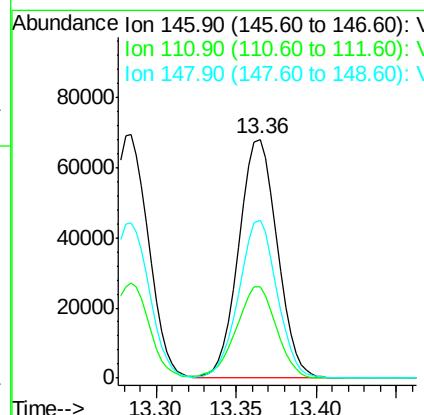
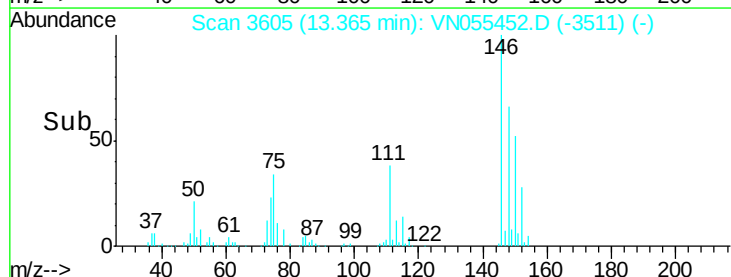
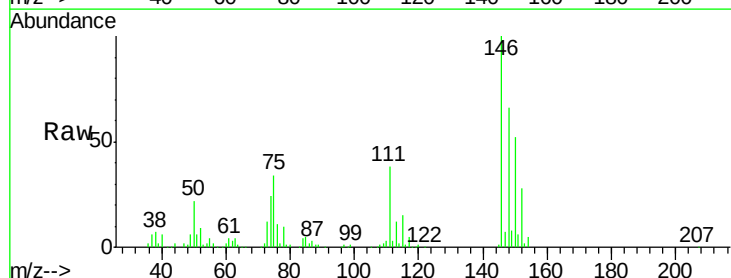
Manual Integrations
 APPROVED

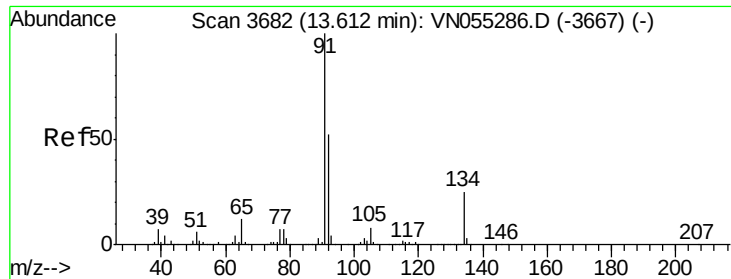
MMDadoda
 5/8/2019 10:16:23 AM



#88
 1,4-Dichlorobenzene
 Concen: 19.778 ug/l
 RT: 13.36 min Scan# 3605
 Delta R.T. 0.00 min
 Lab File: VN055452.D
 Acq: 7 May 2019 22:13

Tgt Ion	Ratio	Resp	Lower	Upper
146	100	111816		
111	40.2	19.5	58.5	
148	65.6	32.5	97.4	





#89

n-Butylbenzene

Concen: 19.474 ug/l

RT: 13.62 min Scan# 3683

Delta R.T. 0.00 min

Lab File: VN055452.D

Acq: 7 May 2019 22:13

Instrument :

MSVOA_N

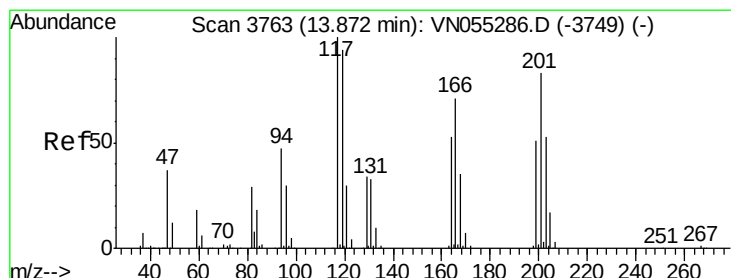
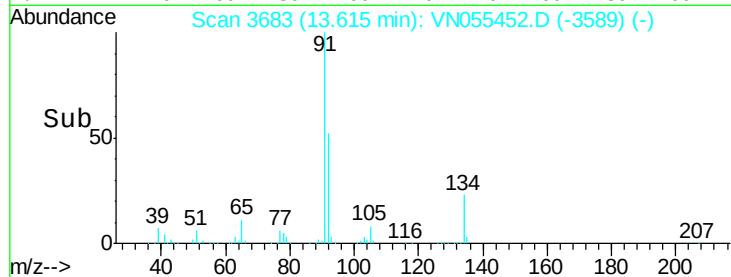
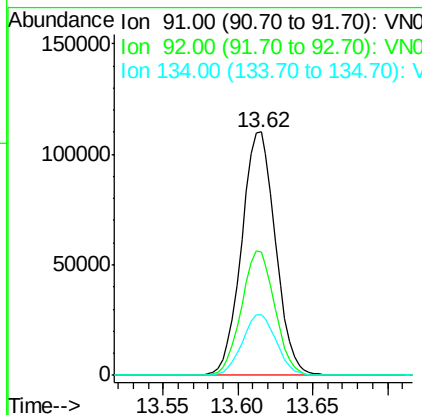
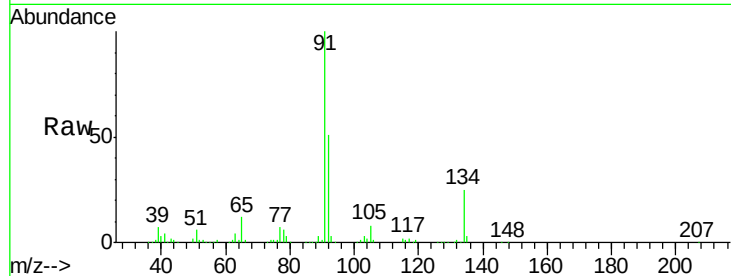
ClientSampleId :

VN0507MBS02

Tot Ion:	91	Resp:	173869
Ion	Ratio	Lower	Upper
91	100		
92	50.3	26.1	78.3
134	24.9	12.4	37.4

Manual Integrations
APPROVED

MMDadoda
5/8/2019 10:16:23 AM



#90

Hexachloroethane

Concen: 20.135 ug/l

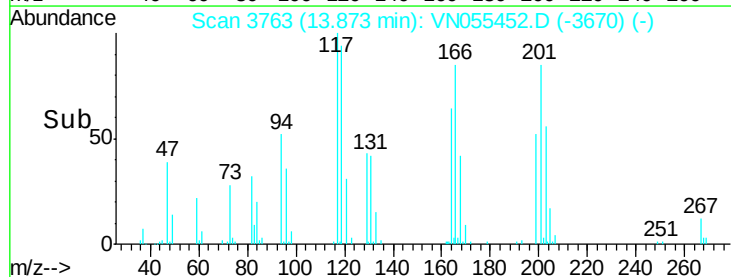
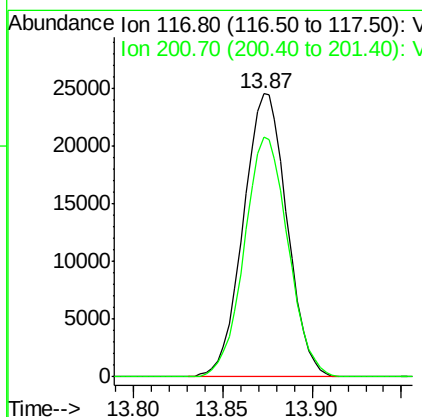
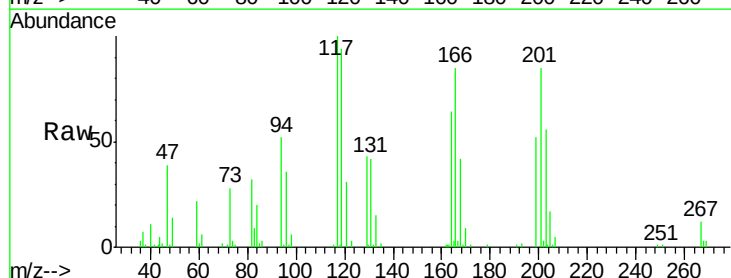
RT: 13.87 min Scan# 3763

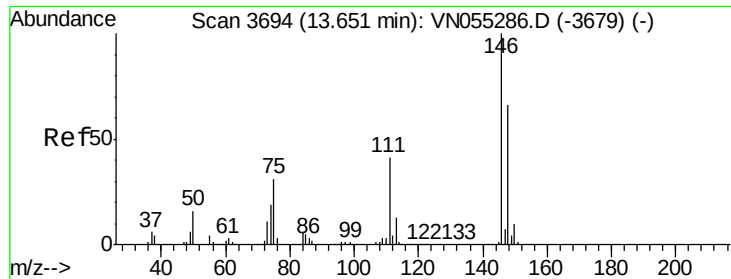
Delta R.T. 0.00 min

Lab File: VN055452.D

Acq: 7 May 2019 22:13

Tgt Ion:	117	Resp:	41931
Ion	Ratio	Lower	Upper
117	100		
201	85.2	41.9	125.8





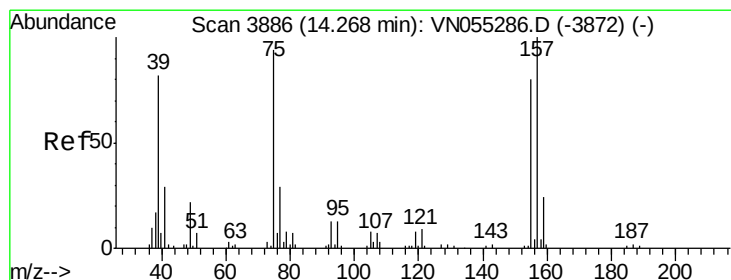
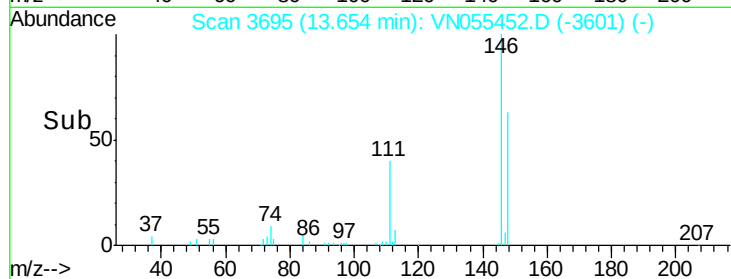
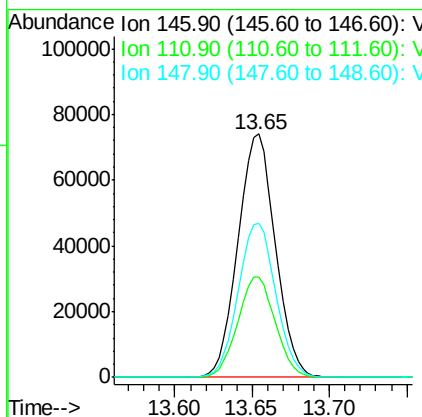
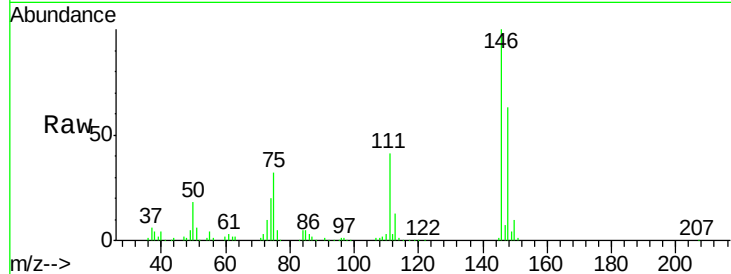
#91
 1,2-Dichlorobenzene
 Concen: 20.907 ug/l
 RT: 13.65 min Scan# 3695
 Delta R.T. 0.00 min
 Lab File: VN055452.D
 Acq: 7 May 2019 22:13

Instrument :
 MSVOA_N
 ClientSampled :
 VN0507MBS02

Tot Ion	Ratio	Lower	Upper
146	100		
111	41.2	20.3	61.0
148	63.8	32.4	97.2

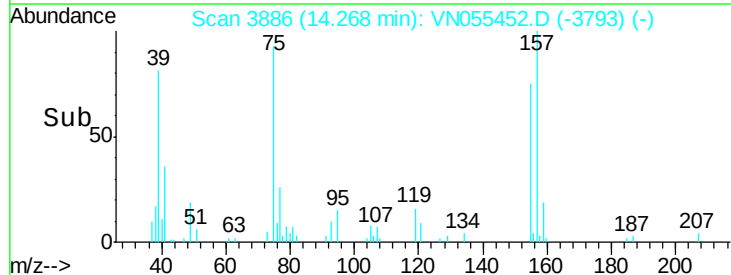
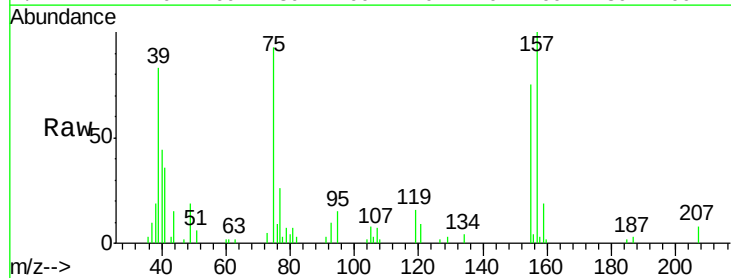
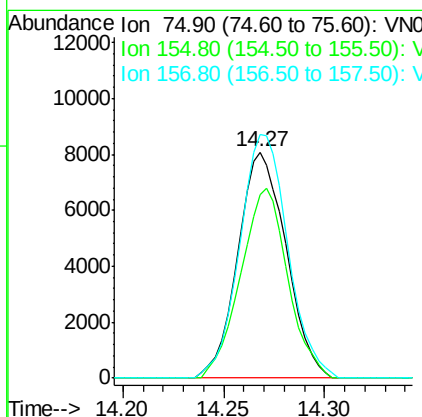
Manual Integrations
 APPROVED

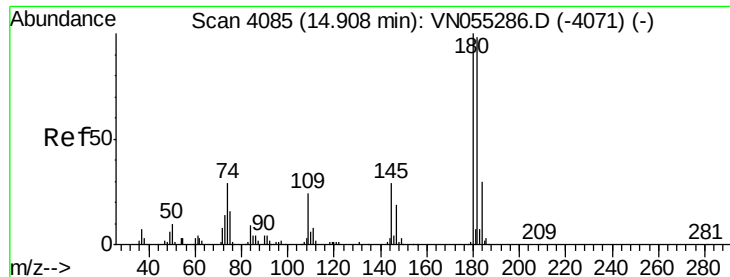
MMDadoda
 5/8/2019 10:16:23 AM



#92
 1,2-Dibromo-3-Chloropropane
 Concen: 28.668 ug/l
 RT: 14.27 min Scan# 3886
 Delta R.T. 0.00 min
 Lab File: VN055452.D
 Acq: 7 May 2019 22:13

Tgt Ion	Ratio	Lower	Upper
75	100		
155	81.8	41.5	124.6
157	107.8	54.0	162.2





#93

1,2,4-Trichlorobenzene

Concen: 17.828 ug/l

RT: 14.91 min Scan# 4085

Delta R.T. 0.00 min

Lab File: VN055452.D

Acq: 7 May 2019 22:13

Instrument :

MSVOA_N

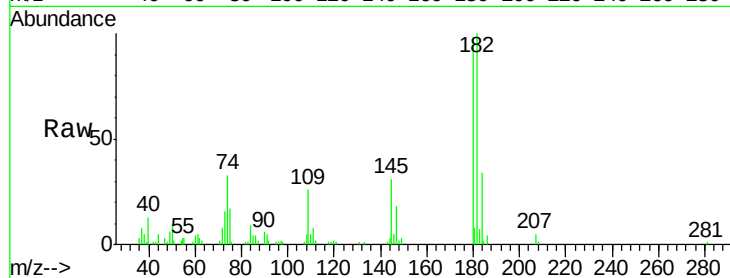
ClientSampled :

VN0507MBS02

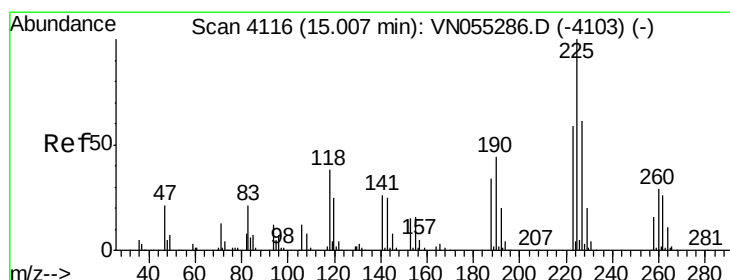
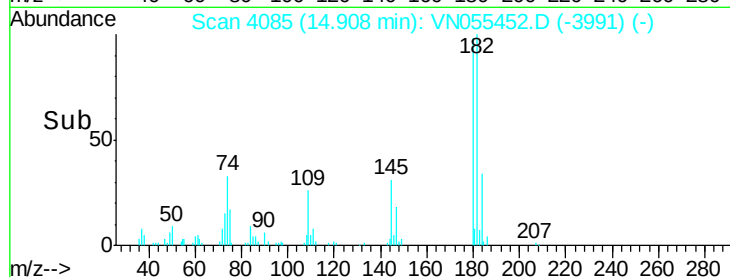
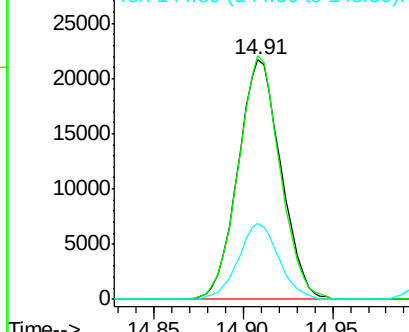
Tot Ion:	180	Resp:	36470
Ion Ratio	Lower	Upper	
180	100		
182	98.9	48.3	144.9
145	29.9	14.2	42.6

Manual Integrations
APPROVED

MMDadoda
5/8/2019 10:16:23 AM



Abundance Ion 179.80 (179.50 to 180.50): V
Ion 181.80 (181.50 to 182.50): V
Ion 144.80 (144.50 to 145.50): V



#94

Hexachlorobutadiene

Concen: 23.063 ug/l

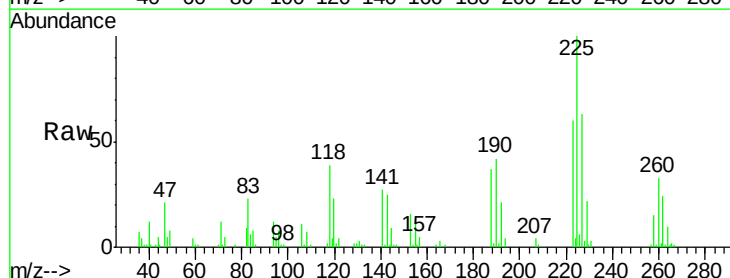
RT: 15.01 min Scan# 4116

Delta R.T. 0.00 min

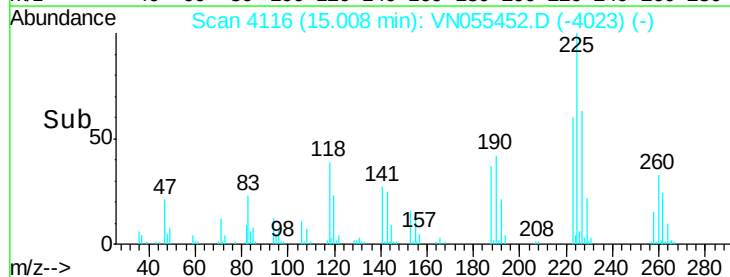
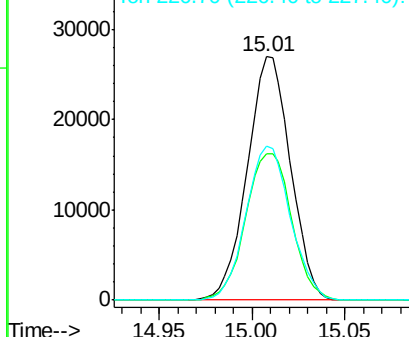
Lab File: VN055452.D

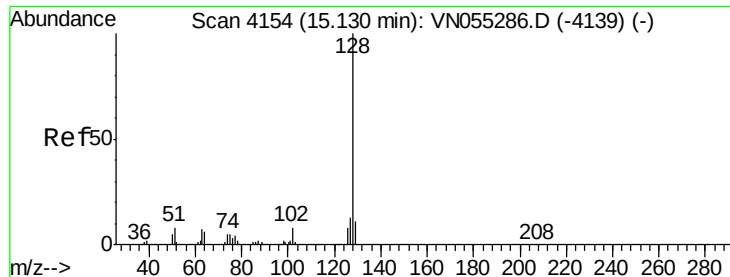
Acq: 7 May 2019 22:13

Tgt Ion:	225	Resp:	43994
Ion Ratio	Lower	Upper	
225	100		
223	63.8	30.3	90.8
227	64.9	30.9	92.7



Abundance Ion 224.70 (224.40 to 225.40): V
Ion 222.70 (222.40 to 223.40): V
Ion 226.70 (226.40 to 227.40): V





#95

Naphthalene

Concen: 18.693 ug/l

RT: 15.13 min Scan# 4155

Delta R.T. 0.00 min

Lab File: VN055452.D

Acq: 7 May 2019 22:13

Instrument :

MSVOA_N

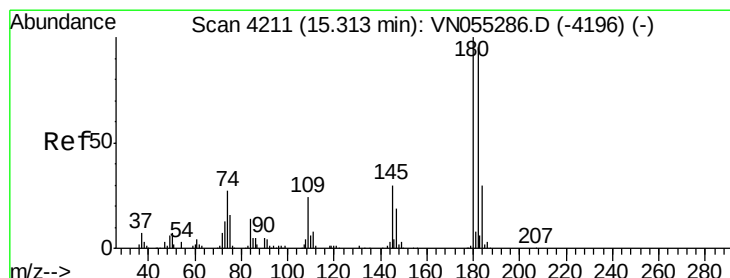
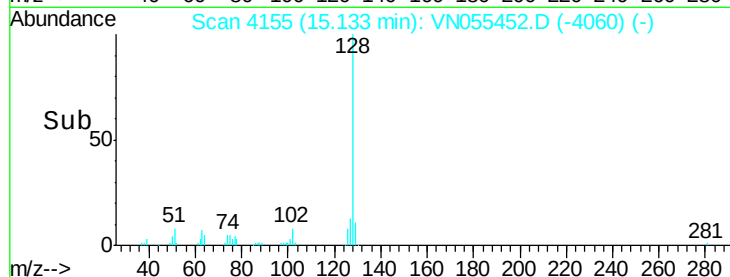
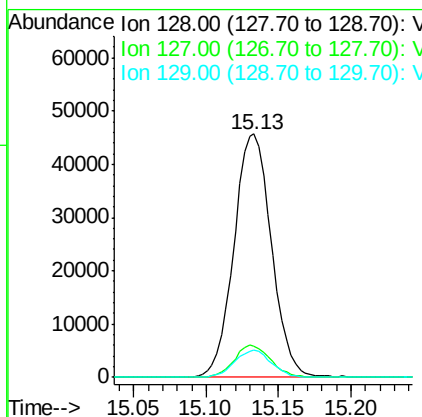
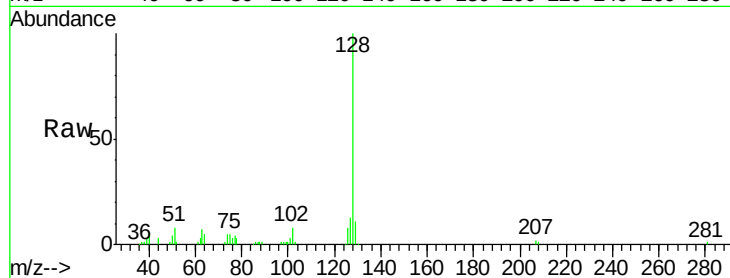
ClientSampled :

VN0507MBS02

Tot Ion:	128	Resp:	82086
Ion Ratio	Lower	Upper	
128	100		
127	12.6	10.7	16.1
129	11.1	8.6	13.0

Manual Integrations
APPROVED

MMDadoda
5/8/2019 10:16:23 AM



#96

1,2,3-Trichlorobenzene

Concen: 19.553 ug/l

RT: 15.31 min Scan# 4211

Delta R.T. 0.00 min

Lab File: VN055452.D

Acq: 7 May 2019 22:13

Tgt Ion:	180	Resp:	41291
Ion Ratio	Lower	Upper	
180	100		
182	101.1	48.3	144.9
145	33.3	15.2	45.6

