

Data Path : Z:\VOASRV\HPCHEM1\MSVOA N\DATA\VN051719\
 Data File : VN055603.D
 Acq On : 17 May 2019 11:26
 Operator : JC/SP
 Sample : VSTDIC150
 Misc : 5.00mL/MSVOA N/WATER
 ALS Vial : 8 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 VSTDIC150

Manual Integrations
 APPROVED

MMDadoda
 5/20/2019 9:10:16 AM

Quant Time: May 17 23:41:14 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_N\METHODS\82N051719W.M
 Quant Title : SW846 8260
 QLast Update : Fri May 17 23:16:47 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	7.67	168	321196	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	8.59	114	491976	50.00	ug/l	0.00
63) Chlorobenzene-d5	11.41	117	444444	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.34	152	219872	50.00	ug/l	0.00

System Monitoring Compounds

33) 1,2-Dichloroethane-d4	8.03	65	513831	154.44	ug/l	0.00
Spiked Amount	50.000		Recovery	=	308.88%	
35) Dibromofluoromethane	7.59	113	456246	141.24	ug/l	0.00
Spiked Amount	50.000		Recovery	=	282.48%	
50) Toluene-d8	10.09	98	1768525	152.78	ug/l	0.00
Spiked Amount	50.000		Recovery	=	305.56%	
62) 4-Bromofluorobenzene	12.40	95	648733	169.31	ug/l	0.00
Spiked Amount	50.000		Recovery	=	338.62%	

Target Compounds

						Qvalue
2) Dichlorodifluoromethane	1.85	85	339182	125.176	ug/l	99
3) Chloromethane	2.06	50	463819	136.981	ug/l	99
4) Vinyl Chloride	2.18	62	499997	136.419	ug/l	98
5) Bromomethane	2.53	94	335125m	126.251	ug/l	
6) Chloroethane	2.69	64	290004	123.776	ug/l	99
7) Trichlorofluoromethane	3.02	101	645707	124.614	ug/l	99
8) Diethyl Ether	3.41	74	268250	143.145	ug/l	98
9) 1,1,2-Trichlorotrifluoroet	3.76	101	396191	125.877	ug/l	99
10) Methyl Iodide	3.95	142	606189	132.360	ug/l	100
11) Tert butyl alcohol	4.77	59	478734	1601.131	ug/l	99
12) 1,1-Dichloroethene	3.74	96	408103	137.599	ug/l	98
13) Acrolein	3.60	56	253614	1509.088	ug/l	100
14) Allyl chloride	4.32	41	700320	153.932	ug/l	99
15) Acrylonitrile	4.98	53	1127655	1023.952	ug/l	100
16) Acetone	3.81	43	996817	1000.000	ug/l	100
17) Carbon Disulfide	4.06	76	1163119	128.736	ug/l	100
18) Methyl Acetate	4.32	43	455570	197.405	ug/l	99
19) Methyl tert-butyl Ether	5.04	73	1394993	177.875	ug/l	99
20) Methylene Chloride	4.55	84	461124	137.256	ug/l	98
21) trans-1,2-Dichloroethene	5.04	96	446957	143.638	ug/l	99
22) Diisopropyl ether	5.95	45	1378570	162.891	ug/l	96
23) Vinyl Acetate	5.89	43	5980998	948.225	ug/l	100
24) 1,1-Dichloroethane	5.85	63	788947	139.314	ug/l	100
25) 2-Butanone	6.83	43	1523941	1165.506	ug/l	100
26) 2,2-Dichloropropane	6.82	77	672558	153.413	ug/l	100
27) cis-1,2-Dichloroethene	6.83	96	519253	148.365	ug/l	100
28) Bromochloromethane	7.20	49	343980	139.104	ug/l	98
29) Tetrahydrofuran	7.21	42	978642	1161.659	ug/l	100
30) Chloroform	7.37	83	797466	140.181	ug/l	100
31) Cyclohexane	7.65	56	728379	123.693	ug/l	97
32) 1,1,1-Trichloroethane	7.57	97	712971	145.577	ug/l	100
36) 1,1-Dichloropropene	7.79	75	622523	138.444	ug/l	100
37) Ethyl Acetate	6.93	43	598935	217.863	ug/l	99
38) Carbon Tetrachloride	7.78	117	644718	133.501	ug/l	99

Data Path : Z:\VOASRV\HPCHEM1\MSVOA N\DATA\VN051719\
 Data File : VN055603.D
 Acq On : 17 May 2019 11:26
 Operator : JC/SP
 Sample : VSTDICC150
 Misc : 5.00mL/MSVOA N/WATER
 ALS Vial : 8 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 VSTDICC150

Manual Integrations
 APPROVED

MMDadoda
 5/20/2019 9:10:16 AM

Quant Time: May 17 23:41:14 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_N\METHODS\82N051719W.M
 Quant Title : SW846 8260
 QLast Update : Fri May 17 23:16:47 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
39) Methylcyclohexane	9.08	83	758827	147.221	ug/l	99
40) Benzene	8.04	78	1856358	140.523	ug/l	100
41) Methacrylonitrile	7.17	41	233825m	166.392	ug/l	
42) 1,2-Dichloroethane	8.12	62	611499	151.890	ug/l	100
43) Isopropyl Acetate	8.16	43	1039656	199.869	ug/l	100
44) Trichloroethene	8.84	130	529098	142.884	ug/l	98
45) 1,2-Dichloropropane	9.12	63	489525	144.315	ug/l	99
46) Dibromomethane	9.21	93	326902	157.819	ug/l	99
47) Bromodichloromethane	9.40	83	661931	152.257	ug/l	99
48) Methyl methacrylate	9.20	41	488479	218.144	ug/l	100
49) 1,4-Dioxane	9.20	88	184352	5078.892	ug/l	98
51) 4-Methyl-2-Pentanone	9.99	43	3068406	1237.376	ug/l	100
52) Toluene	10.16	92	1195232	153.058	ug/l	100
53) t-1,3-Dichloropropene	10.38	75	777311	181.226	ug/l	100
54) cis-1,3-Dichloropropene	9.84	75	827172	167.208	ug/l	99
55) 1,1,2-Trichloroethane	10.56	97	474241	162.643	ug/l	99
56) Ethyl methacrylate	10.43	69	782324	224.382	ug/l	99
57) 1,3-Dichloropropane	10.71	76	790124	163.601	ug/l	99
58) 2-Chloroethyl Vinyl ether	9.70	63	1781960	1160.600	ug/l	99
59) 2-Hexanone	10.75	43	2287176	1342.043	ug/l	99
60) Dibromochloromethane	10.90	129	569427	168.506	ug/l	100
61) 1,2-Dibromoethane	11.01	107	510784	175.882	ug/l	100
64) Tetrachloroethene	10.63	164	491880	125.798	ug/l	100
65) Chlorobenzene	11.43	112	1307524	140.963	ug/l	100
66) 1,1,1,2-Tetrachloroethane	11.51	131	508450	148.852	ug/l	100
67) Ethyl Benzene	11.51	91	2310296	152.740	ug/l	100
68) m/p-Xylenes	11.62	106	1765164	303.369	ug/l	100
69) o-Xylene	11.95	106	851438	151.687	ug/l	99
70) Styrene	11.96	104	1515321	170.425	ug/l	99
71) Bromoform	12.13	173	468453	185.711	ug/l #	100
73) Isopropylbenzene	12.25	105	2221336	142.611	ug/l	100
74) N-amyl acetate	12.07	43	922119	231.900	ug/l	99
75) 1,1,2,2-Tetrachloroethane	12.50	83	700397	180.074	ug/l	100
76) 1,2,3-Trichloropropane	12.55	75	630858m	186.748	ug/l	
77) Bromobenzene	12.53	156	610895	146.747	ug/l	100
78) n-propylbenzene	12.59	91	2557245	147.551	ug/l	100
79) 2-Chlorotoluene	12.67	91	1525529	145.615	ug/l	100
80) 1,3,5-Trimethylbenzene	12.73	105	1910032	147.877	ug/l	100
81) trans-1,4-Dichloro-2-buten	12.30	75	256461	234.551	ug/l	100
82) 4-Chlorotoluene	12.77	91	1566746	150.335	ug/l	100
83) tert-Butylbenzene	12.99	119	1599467	138.525	ug/l	100
84) 1,2,4-Trimethylbenzene	13.04	105	1919981	148.852	ug/l	99
85) sec-Butylbenzene	13.17	105	2125878	137.512	ug/l	100
86) p-Isopropyltoluene	13.29	119	1991326	147.403	ug/l	100
87) 1,3-Dichlorobenzene	13.28	146	1052269	145.335	ug/l	99
88) 1,4-Dichlorobenzene	13.36	146	1047424	143.892	ug/l	99
89) n-Butylbenzene	13.61	91	1685000	152.119	ug/l	100
90) Hexachloroethane	13.87	117	377677	143.568	ug/l	98
91) 1,2-Dichlorobenzene	13.65	146	1010916	142.037	ug/l	100
92) 1,2-Dibromo-3-Chloropropan	14.27	75	139009	226.535	ug/l	98

Data Path : Z:\VOASRV\HPCHEM1\MSVOA N\DATA\VN051719\
Data File : VN055603.D
Acq On : 17 May 2019 11:26
Operator : JC/SP
Sample : VSTDICC150
Misc : 5.00mL/MSVOA N/WATER
ALS Vial : 8 Sample Multiplier: 1

Instrument :
MSVOA_N
ClientSampleId :
VSTDICC150

Manual Integrations
APPROVED

MMDadoda
5/20/2019 9:10:16 AM

Quant Time: May 17 23:41:14 2019
Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_N\METHODS\82N051719W.M
Quant Title : SW846 8260
QLast Update : Fri May 17 23:16:47 2019
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
93) 1,2,4-Trichlorobenzene	14.91	180	638561	171.666	ug/l	100
94) Hexachlorobutadiene	15.01	225	325654	110.169	ug/l	99
95) Naphthalene	15.13	128	1774481	237.315	ug/l	100
96) 1,2,3-Trichlorobenzene	15.31	180	623988	172.062	ug/l	99

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

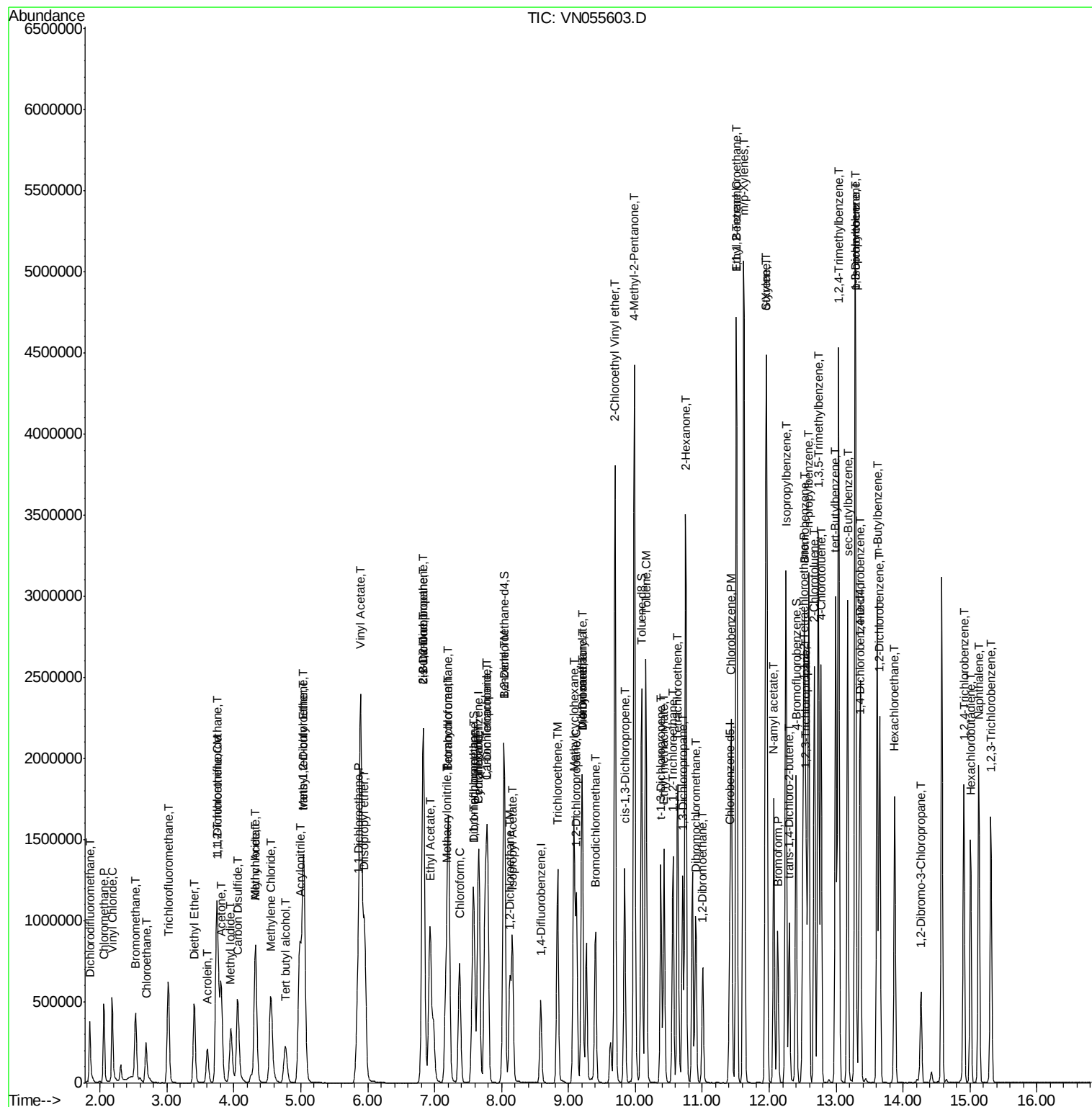
Data Path : Z:\V0ASRV\HPCHEM1\MSVOA N\DATA\VN051719\
Data File : VN055603.D
Acq On : 17 May 2019 11:26
Operator : JC/SP
Sample : VSTDICC150
Misc : 5.00mL/MSVOA N/WATER
ALS Vial : 8 Sample Multiplier: 1

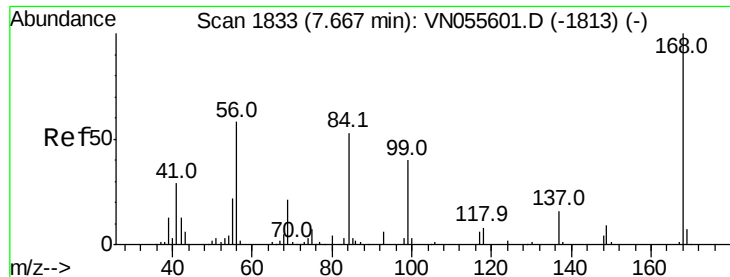
Instrument :
MSVOA_N
ClientSampleId :
VSTDICC150

Manual Integrations
APPROVED

MMDadoda
5/20/2019 9:10:16 AM

Quant Time: May 17 23:41:14 2019
Quant Method : Z:\V0ASRV\HPCHEM1\MSVOA_N\METHODS\82N051719W.M
Quant Title : SW846 8260
QLast Update : Fri May 17 23:16:47 2019
Response via : Initial Calibration





#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 7.67 min Scan# 1833

Delta R.T. 0.00 min

Lab File: VN055603.D

Acq: 17 May 2019 11:26

Instrument :

MSVOA_N

ClientSampleId :

VSTDIC150

Tot Ion:168 Resp: 321196

Ion Ratio Lower Upper

168 100

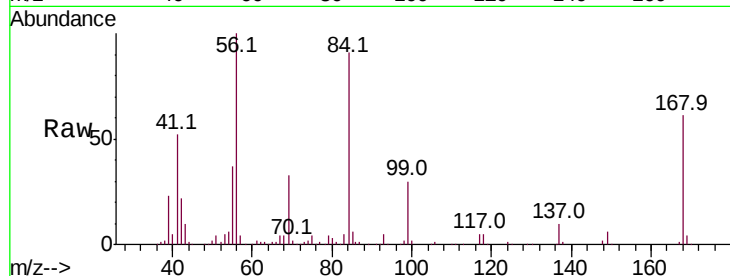
99 48.8 40.2 60.2

Manual Integrations

APPROVED

MMDadoda

5/20/2019 9:10:16 AM



Abundance Ion 167.90 (167.60 to 168.60): VN055601.D (-1813) (-)

Ion 98.90 (98.60 to 99.60): VN055601.D (-1813) (-)

200000

150000

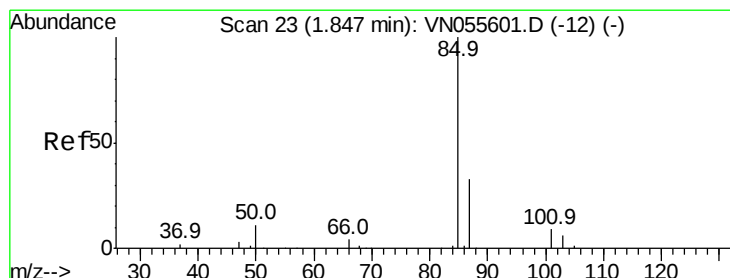
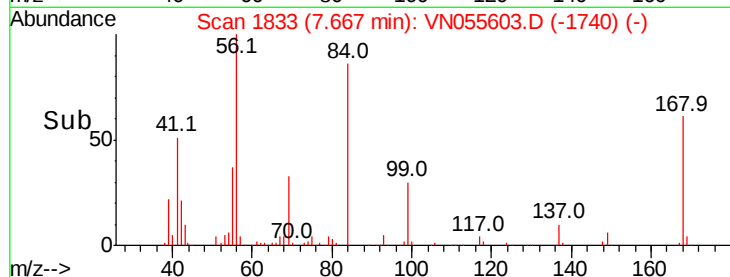
100000

50000

0

7.55 7.60 7.65 7.70 7.75

Time-->



#2

Dichlorodifluoromethane

Concen: 125.176 ug/l

RT: 1.85 min Scan# 23

Delta R.T. 0.00 min

Lab File: VN055603.D

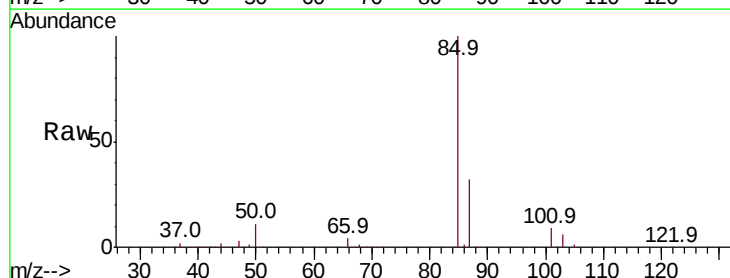
Acq: 17 May 2019 11:26

Tgt Ion: 85 Resp: 339182

Ion Ratio Lower Upper

85 100

87 32.4 16.6 49.7



Abundance Ion 84.90 (84.60 to 85.60): VN055601.D (-12) (-)

Ion 86.90 (86.60 to 87.60): VN055601.D (-12) (-)

250000

200000

150000

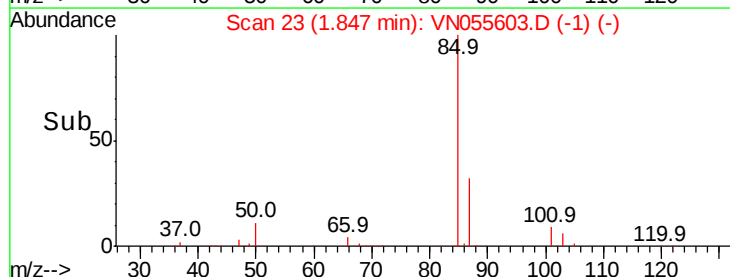
100000

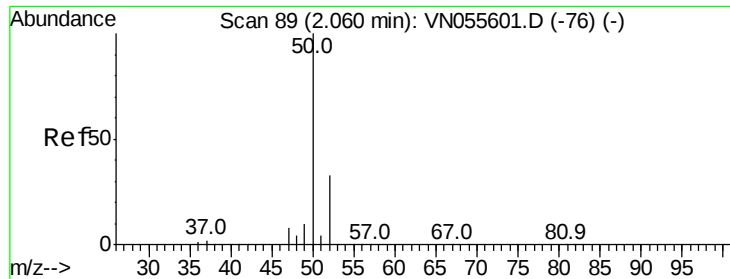
50000

0

1.80 1.90 2.00

Time-->





#3

Chloromethane

Concen: 136.981 ug/l

RT: 2.06 min Scan# 88

Delta R.T. -0.00 min

Lab File: VN055603.D

Acq: 17 May 2019 11:26

Instrument :

MSVOA_N

ClientSampleId :

VSTDIC150

Tot Ion: 50 Resp: 463819

Ion Ratio Lower Upper

50 100

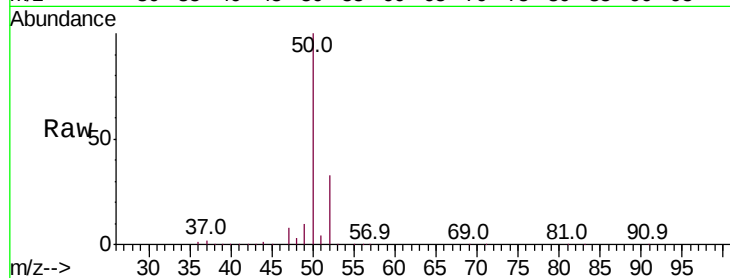
52 32.6 26.7 40.1

Manual Integrations

APPROVED

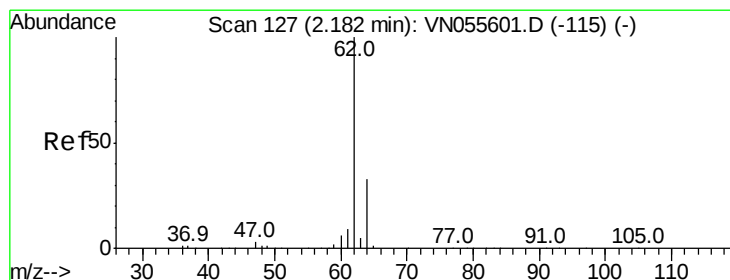
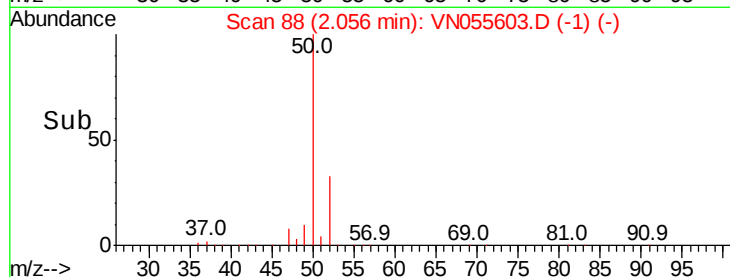
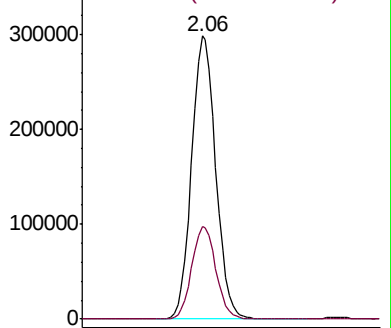
MMDadoda

5/20/2019 9:10:16 AM



Abundance Ion 49.90 (49.60 to 50.60): VNO

Ion 51.90 (51.60 to 52.60): VNO



#4

Vinyl Chloride

Concen: 136.419 ug/l

RT: 2.18 min Scan# 127

Delta R.T. -0.00 min

Lab File: VN055603.D

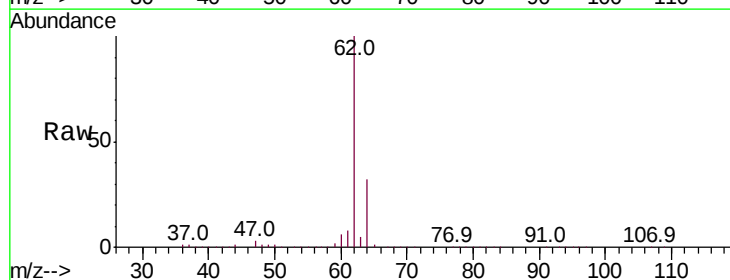
Acq: 17 May 2019 11:26

Tgt Ion: 62 Resp: 499997

Ion Ratio Lower Upper

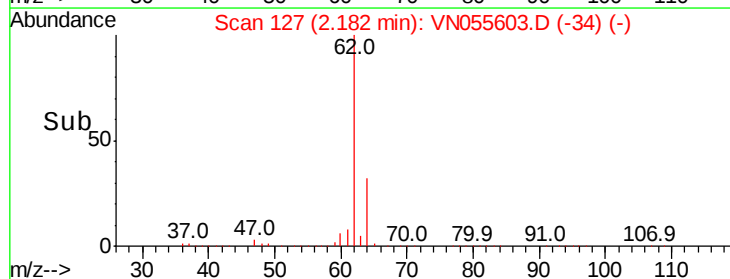
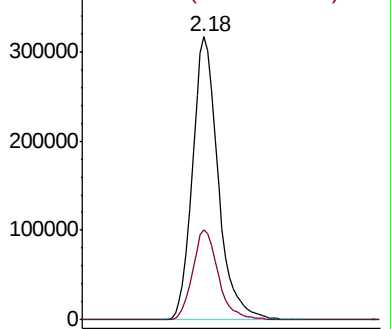
62 100

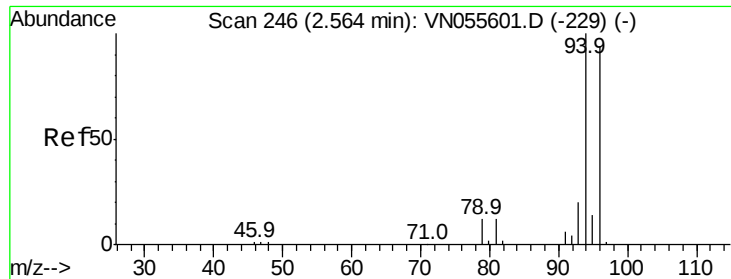
64 31.9 26.2 39.4



Abundance Ion 61.90 (61.60 to 62.60): VNO

Ion 63.90 (63.60 to 64.60): VNO





#5

Bromomethane

Concen: 126.251 ug/l m

RT: 2.53 min Scan# 235

Delta R.T. -0.04 min

Lab File: VN055603.D

Acq: 17 May 2019 11:26

Instrument :

MSVOA_N

ClientSampleId :

VSTDIC150

Tot Ion: 94 Resp: 335125

Ion Ratio Lower Upper

94 100

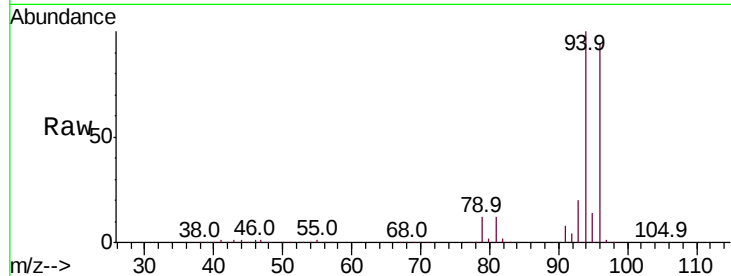
96 93.7 75.2 112.8

Manual Integrations

APPROVED

MMDadoda

5/20/2019 9:10:16 AM



Abundance Ion 93.90 (93.60 to 94.60): VN055601.D (-229) (-)

Ion 95.90 (95.60 to 96.60): VN055603.D (-153) (-)

2.53

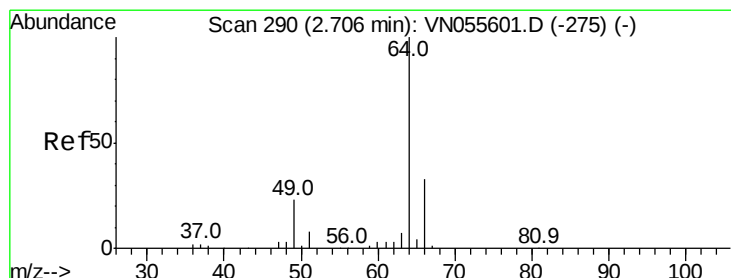
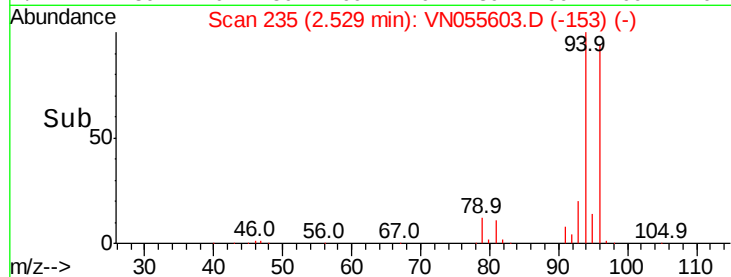
150000

100000

50000

0

Time-->



#6

Chloroethane

Concen: 123.776 ug/l

RT: 2.69 min Scan# 284

Delta R.T. -0.02 min

Lab File: VN055603.D

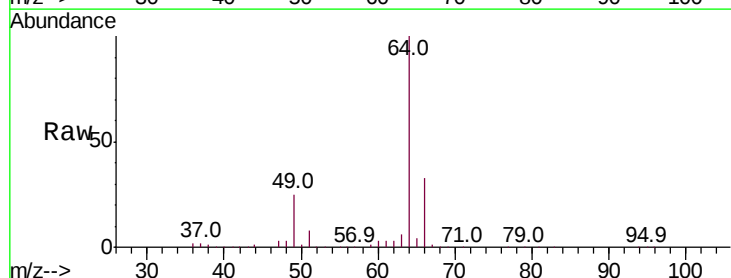
Acq: 17 May 2019 11:26

Tgt Ion: 64 Resp: 290004

Ion Ratio Lower Upper

64 100

66 33.1 26.2 39.4



Abundance Ion 63.90 (63.60 to 64.60): VN055601.D (-275) (-)

Ion 65.90 (65.60 to 66.60): VN055603.D (-197) (-)

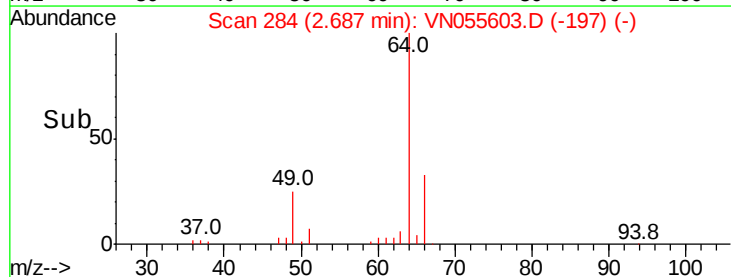
2.69

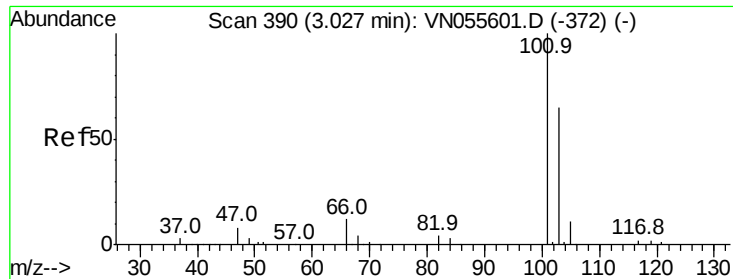
100000

50000

0

Time-->





#7

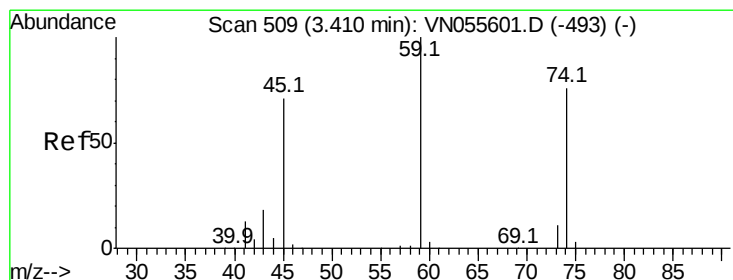
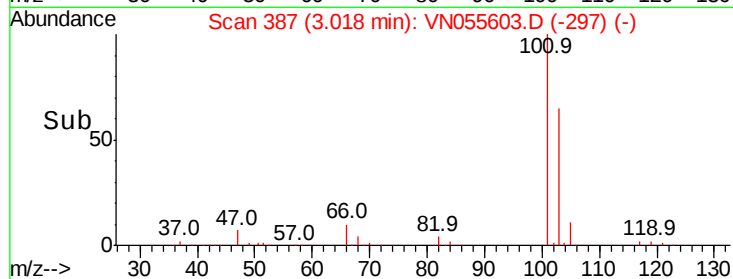
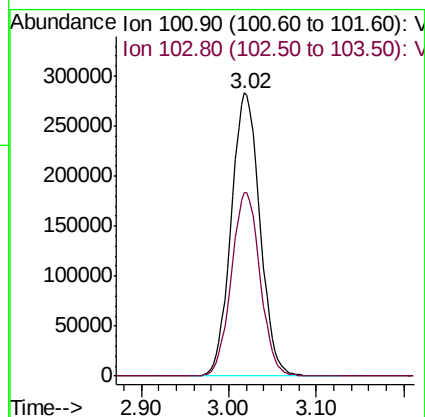
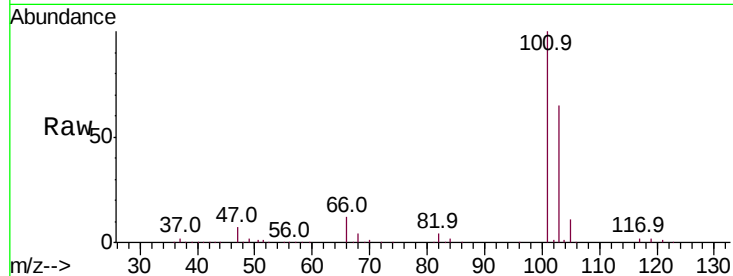
Trichlorofluoromethane
 Concen: 124.614 ug/l
 RT: 3.02 min Scan# 387
 Delta R.T. -0.01 min
 Lab File: VN055603.D
 Acq: 17 May 2019 11:26

Instrument :
 MSVOA_N
 ClientSampleId :
 VSTDIC150

Tot Ion:101 Resp: 645707
 Ion Ratio Lower Upper
 101 100
 103 64.9 52.3 78.5

Manual Integrations
 APPROVED

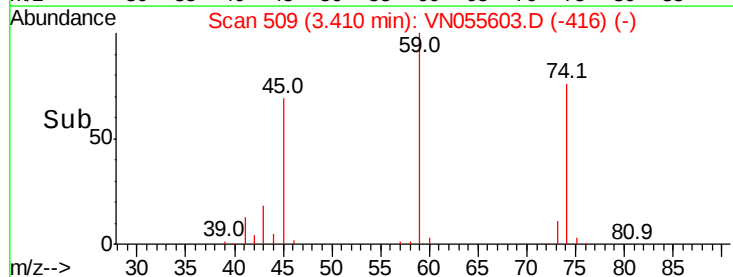
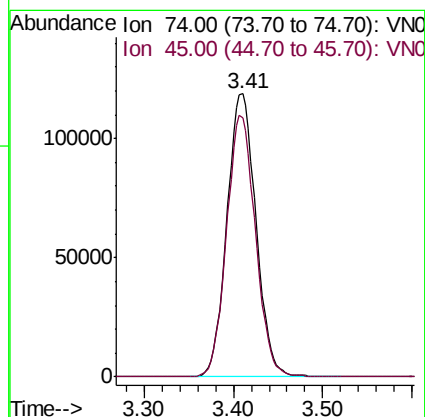
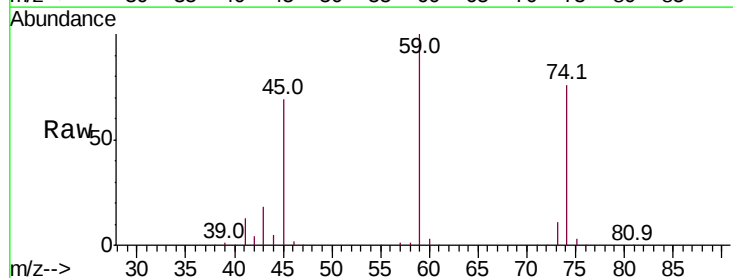
MMDadoda
 5/20/2019 9:10:16 AM

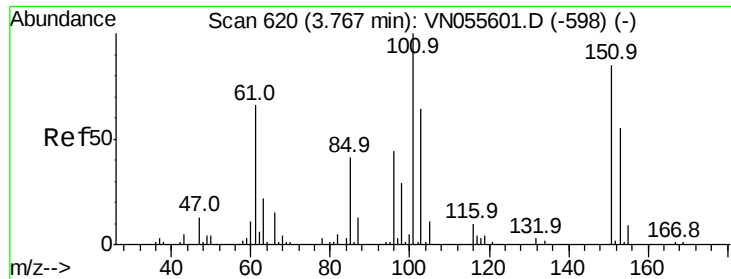


#8

Diethyl Ether
 Concen: 143.145 ug/l
 RT: 3.41 min Scan# 509
 Delta R.T. -0.00 min
 Lab File: VN055603.D
 Acq: 17 May 2019 11:26

Tgt Ion: 74 Resp: 268250
 Ion Ratio Lower Upper
 74 100
 45 91.4 46.4 139.2





#9

1,1,2-Trichlorotrifluoroethane

Concen: 125.877 ug/l

RT: 3.76 min Scan# 618

Delta R.T. -0.01 min

Lab File: VN055603.D

Acq: 17 May 2019 11:26

Instrument :

MSVOA_N

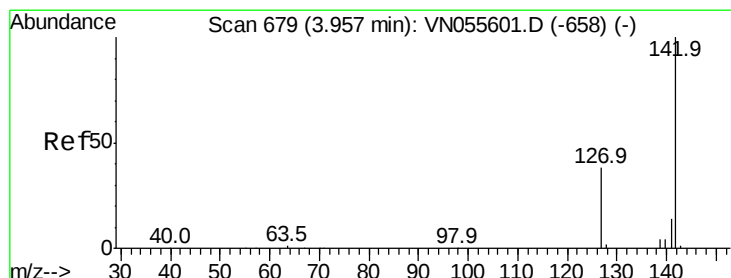
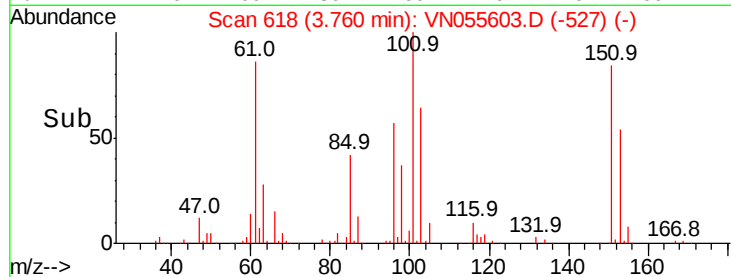
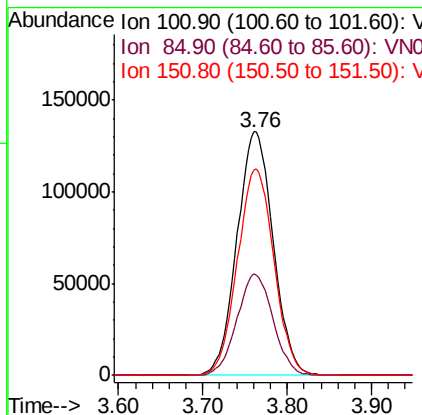
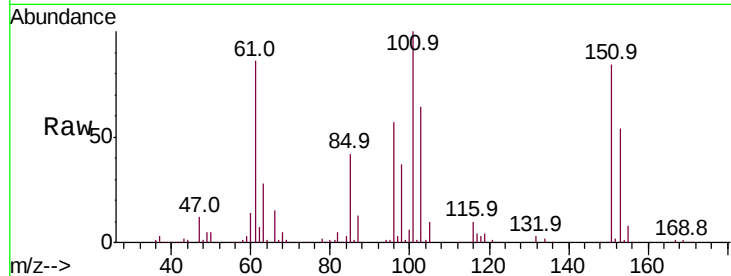
ClientSampleId :

VSTDIC150

Tot Ion:	101	Resp:	396191
Ion Ratio	Lower	Upper	
101	100		
85	41.4	33.4	50.0
151	85.4	69.3	103.9

Manual Integrations
APPROVED

MMDadoda
5/20/2019 9:10:16 AM



#10

Methyl Iodide

Concen: 132.360 ug/l

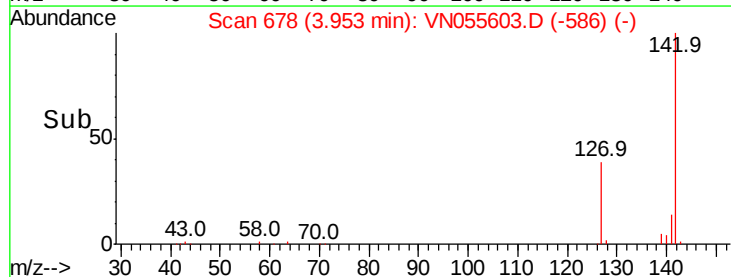
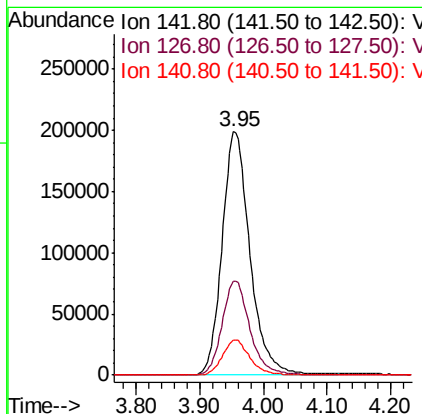
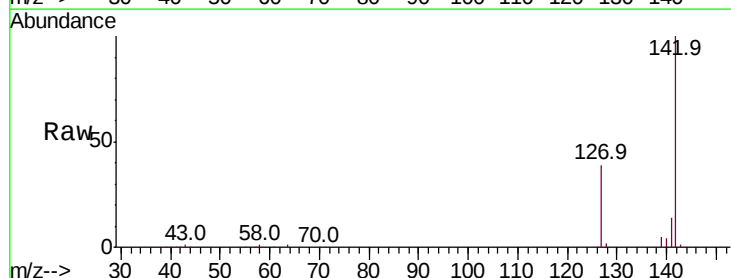
RT: 3.95 min Scan# 678

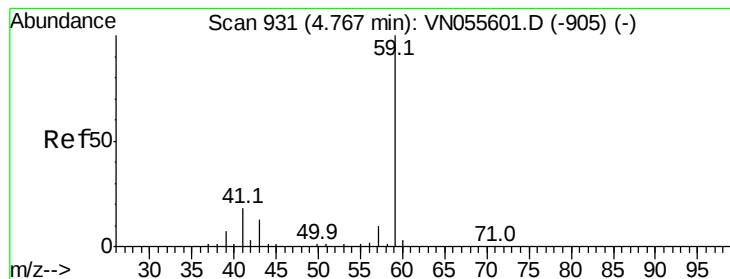
Delta R.T. -0.00 min

Lab File: VN055603.D

Acq: 17 May 2019 11:26

Tgt Ion:	142	Resp:	606189
Ion Ratio	Lower	Upper	
142	100		
127	38.6	31.0	46.4
141	14.2	11.5	17.3





#11

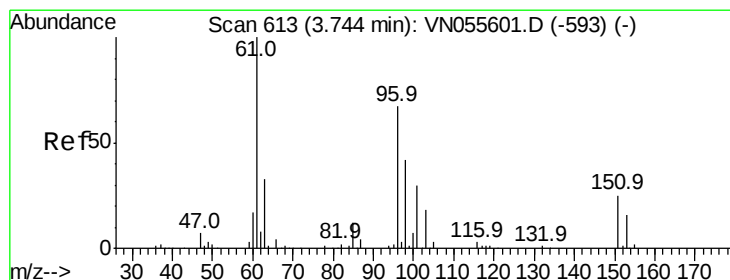
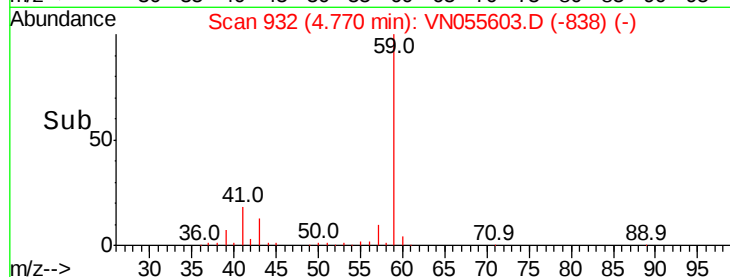
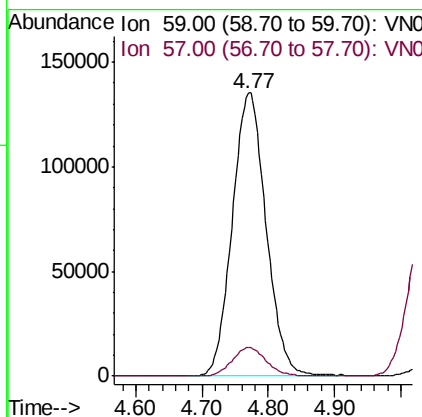
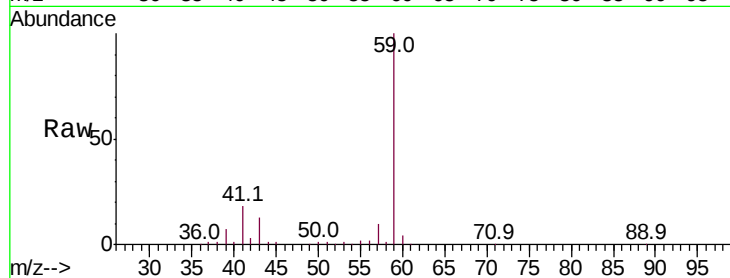
Tert butyl alcohol
 Concen: 1601.131 ug/l
 RT: 4.77 min Scan# 932
 Delta R.T. 0.00 min
 Lab File: VN055603.D
 Acq: 17 May 2019 11:26

Instrument :
 MSVOA_N
 ClientSampled :
 VSTDIC150

Tot Ion	59	Resp	478734
Ion Ratio	100	Lower	Upper
57	10.2	7.8	11.6

Manual Integrations
 APPROVED

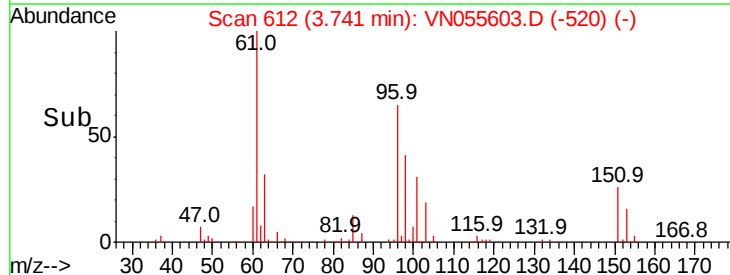
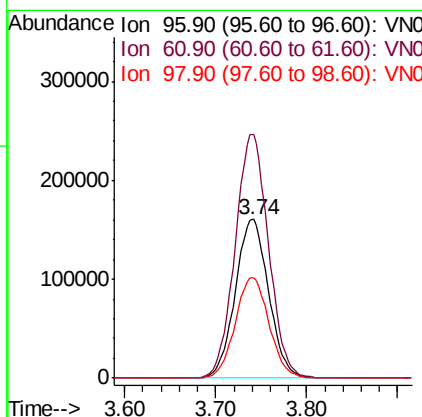
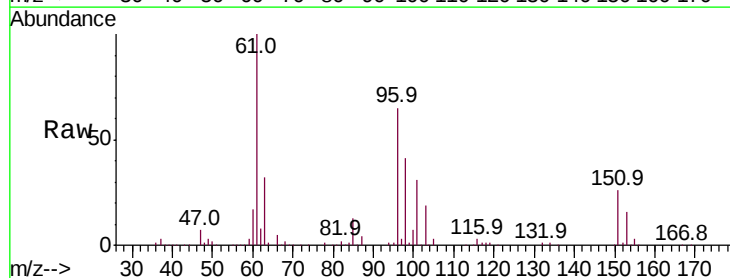
MMDadoda
 5/20/2019 9:10:16 AM

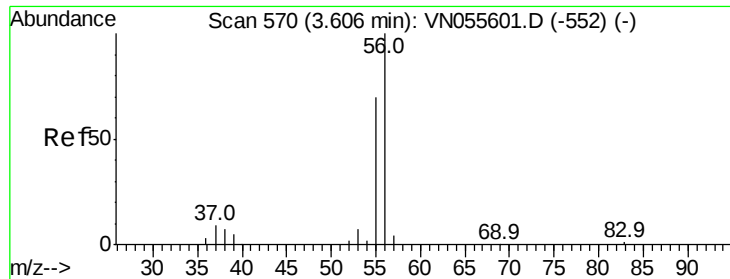


#12

1,1-Dichloroethene
 Concen: 137.599 ug/l
 RT: 3.74 min Scan# 612
 Delta R.T. -0.00 min
 Lab File: VN055603.D
 Acq: 17 May 2019 11:26

Tgt Ion	96	Resp	408103
Ion Ratio	100	Lower	Upper
61	153.6	120.2	180.2
98	63.6	50.6	75.8





#13

Acrolein

Concen: 1509.088 ug/l

RT: 3.60 min Scan# 569

Delta R.T. -0.00 min

Lab File: VN055603.D

Acq: 17 May 2019 11:26

Instrument :

MSVOA_N

ClientSampleId :

VSTDIC150

Tot Ion: 56 Resp: 253614

Ion Ratio Lower Upper

56 100

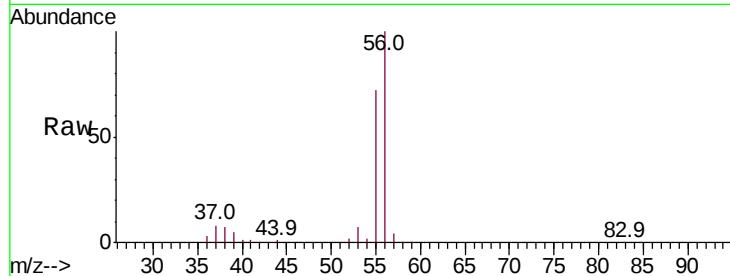
55 71.0 56.5 84.7

Manual Integrations

APPROVED

MMDadoda

5/20/2019 9:10:16 AM



Abundance Ion 56.00 (55.70 to 56.70): VNO

Ion 55.00 (54.70 to 55.70): VNO

3.60

100000

80000

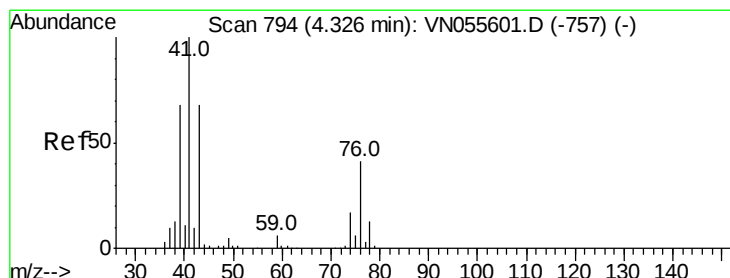
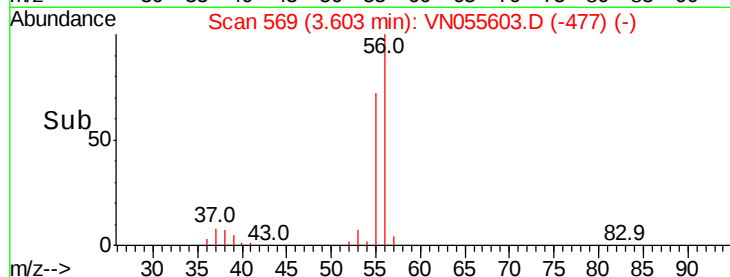
60000

40000

20000

0

Time-->



#14

Allyl chloride

Concen: 153.932 ug/l

RT: 4.32 min Scan# 793

Delta R.T. -0.00 min

Lab File: VN055603.D

Acq: 17 May 2019 11:26

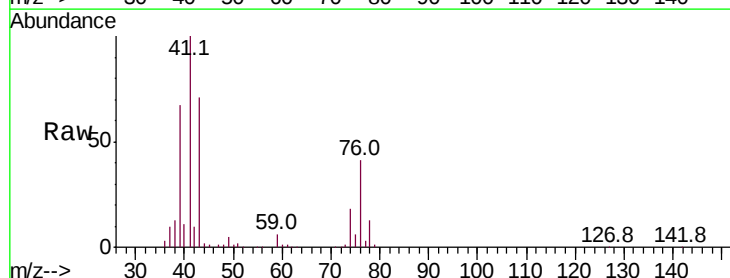
Tgt Ion: 41 Resp: 700320

Ion Ratio Lower Upper

41 100

39 62.0 50.5 75.7

76 36.1 29.2 43.8



Abundance Ion 41.00 (40.70 to 41.70): VNO

Ion 39.00 (38.70 to 39.70): VNO

Ion 75.90 (75.60 to 76.60): VNO

400000

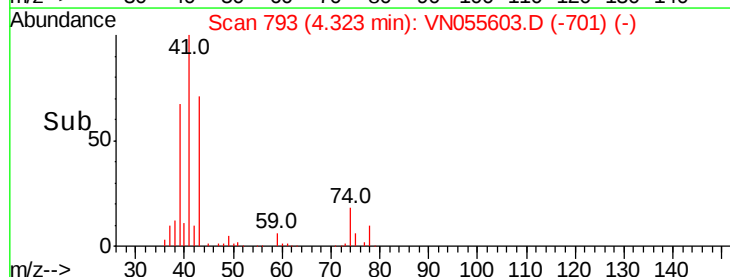
300000

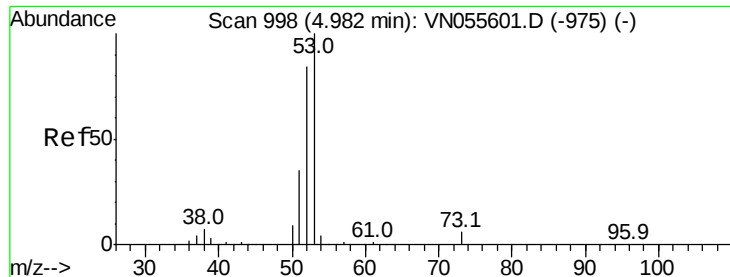
200000

100000

0

Time-->





#15

Acrylonitrile

Concen: 1023.952 ug/l

RT: 4.98 min Scan# 998

Delta R.T. -0.00 min

Lab File: VN055603.D

Acq: 17 May 2019 11:26

Instrument :

MSVOA_N

ClientSampleId :

VSTDIC150

Tot Ion: 53 Resp: 1127655

Ion Ratio Lower Upper

53 100

52 82.6 66.2 99.4

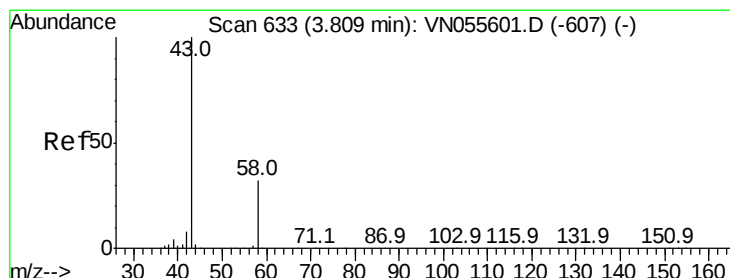
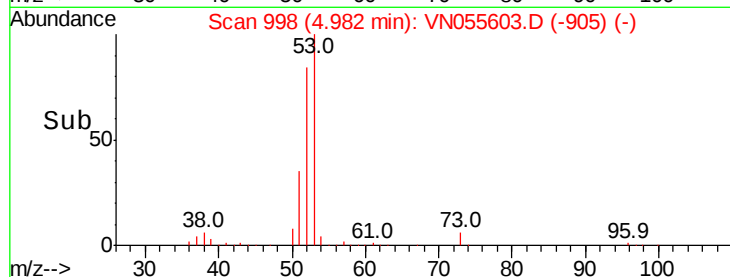
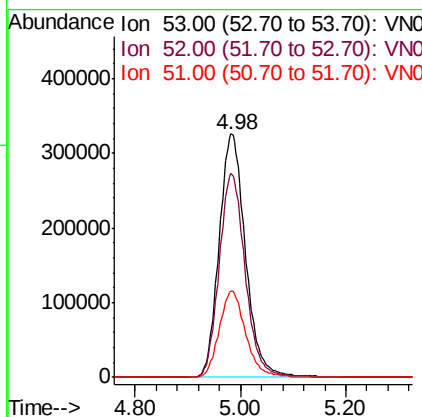
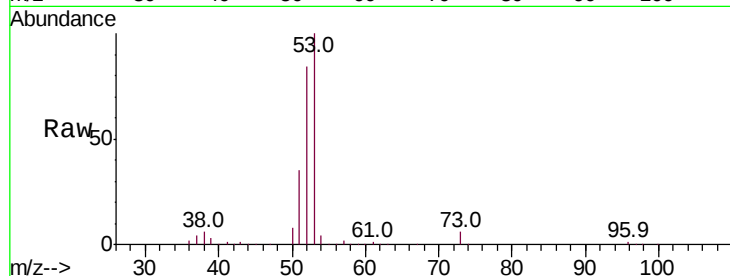
51 35.8 28.5 42.7

Manual Integrations

APPROVED

MMDadoda

5/20/2019 9:10:16 AM



#16

Acetone

Concen: 1000.000 ug/l

RT: 3.81 min Scan# 634

Delta R.T. 0.00 min

Lab File: VN055603.D

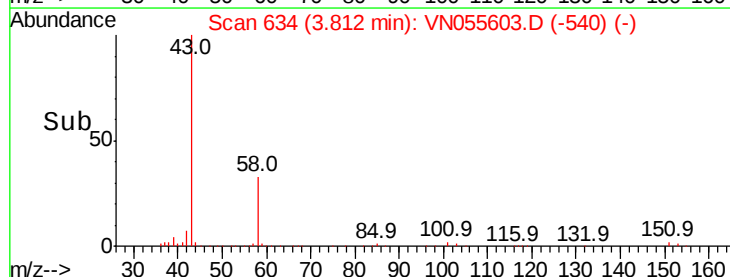
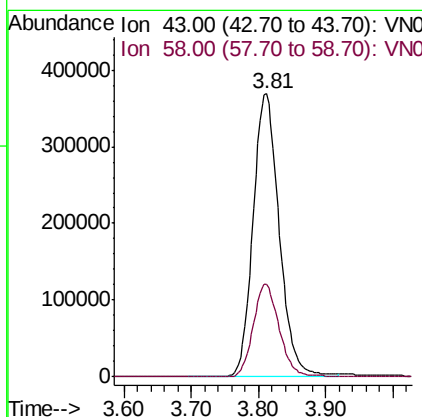
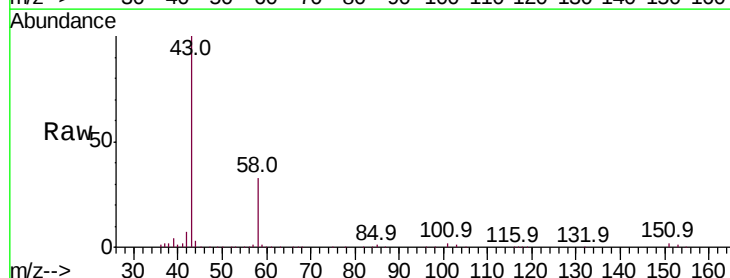
Acq: 17 May 2019 11:26

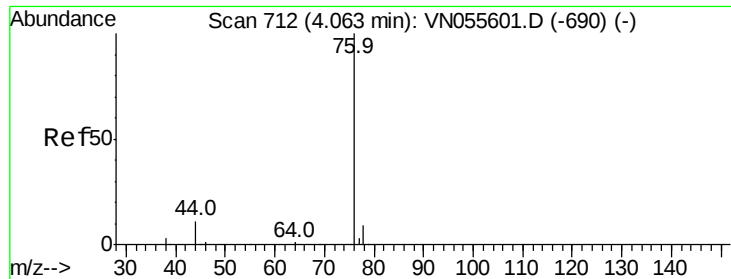
Tgt Ion: 43 Resp: 996817

Ion Ratio Lower Upper

43 100

58 32.7 26.0 39.0





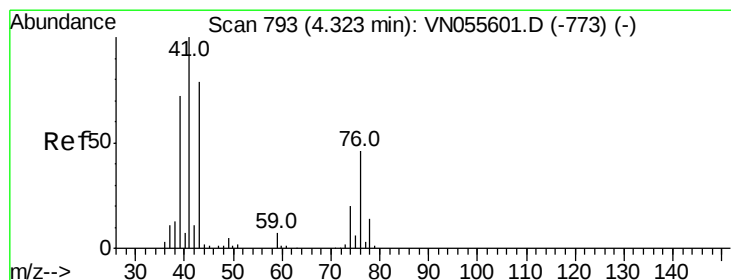
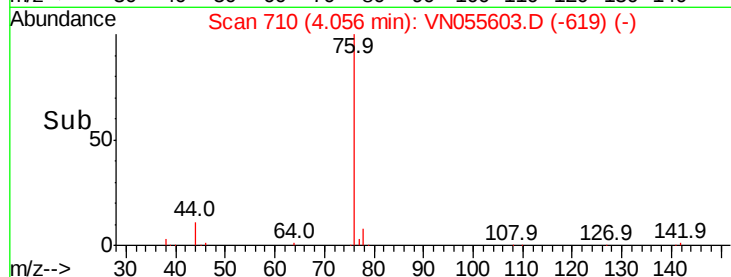
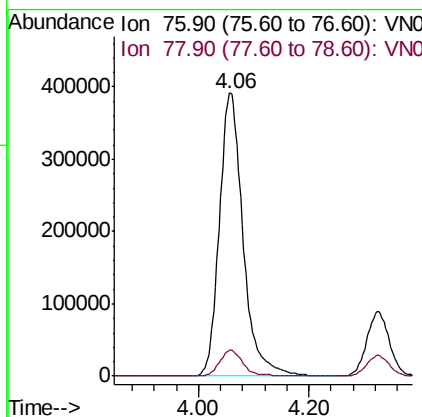
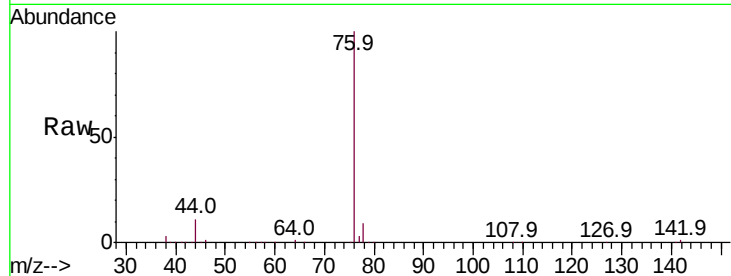
#17
Carbon Disulfide
Concen: 128.736 ug/l
RT: 4.06 min Scan# 710
Delta R.T. -0.01 min
Lab File: VN055603.D
Acq: 17 May 2019 11:26

Instrument :
MSVOA_N
ClientSampleId :
VSTDIC150

Tot Ion: 76 Resp: 1163119
Ion Ratio Lower Upper
76 100
78 9.2 7.3 10.9

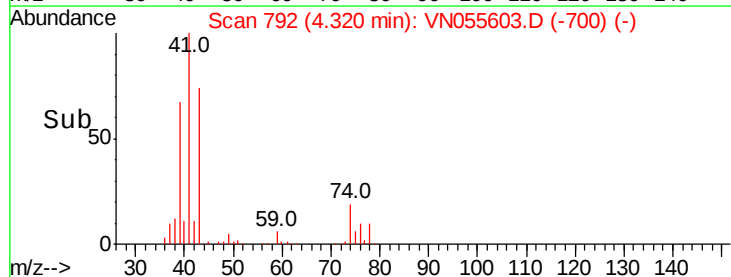
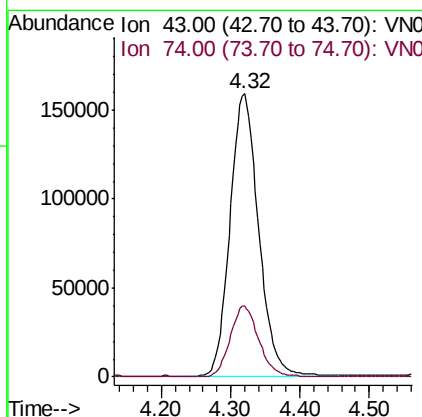
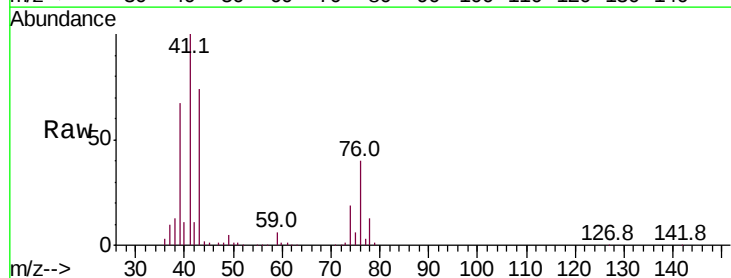
Manual Integrations
APPROVED

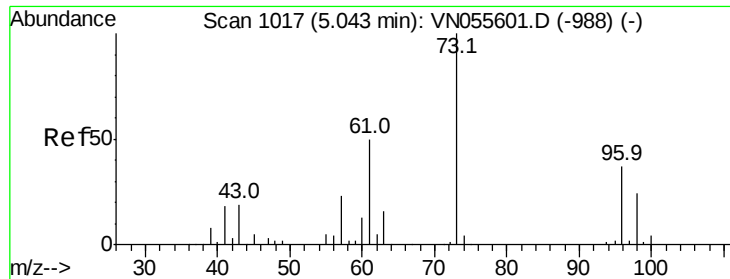
MMDadoda
5/20/2019 9:10:16 AM



#18
Methyl Acetate
Concen: 197.405 ug/l
RT: 4.32 min Scan# 792
Delta R.T. -0.00 min
Lab File: VN055603.D
Acq: 17 May 2019 11:26

Tgt Ion: 43 Resp: 455570
Ion Ratio Lower Upper
43 100
74 25.2 19.9 29.9





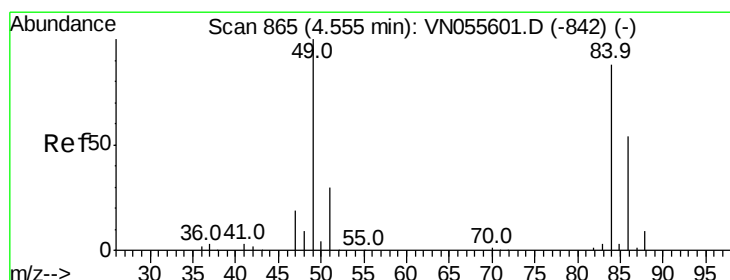
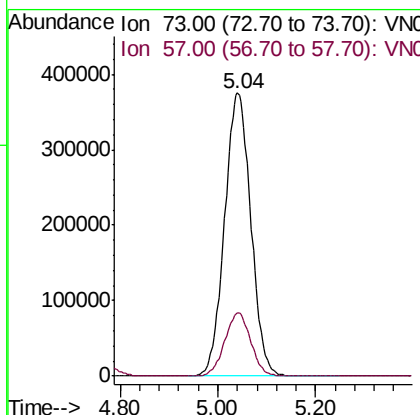
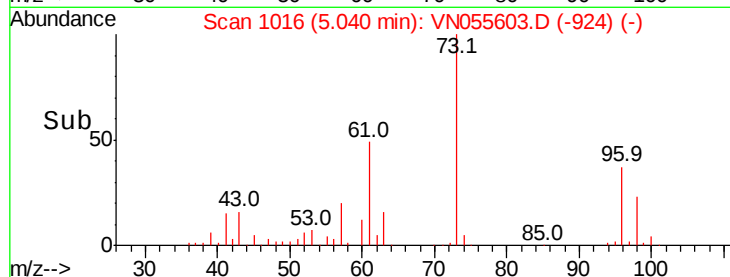
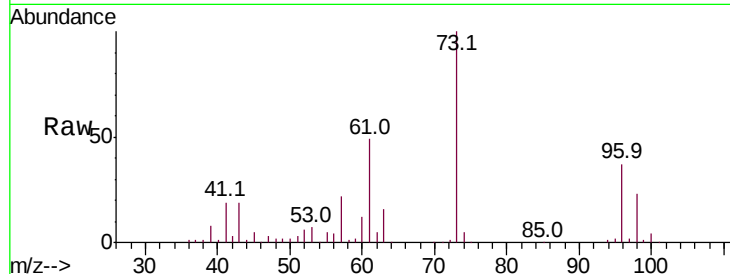
#19
Methvl tert-butvl Ether
Concen: 177.875 ug/l
RT: 5.04 min Scan# 1016
Delta R.T. -0.00 min
Lab File: VN055603.D
Acq: 17 May 2019 11:26

Instrument :
MSVOA_N
ClientSampleId :
VSTDIC150

Tot Ion: 73 Resp: 1394993
Ion Ratio Lower Upper
73 100
57 22.3 18.2 27.2

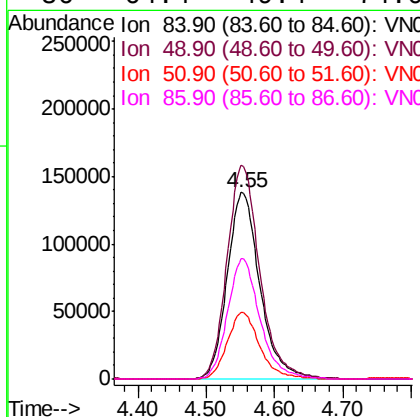
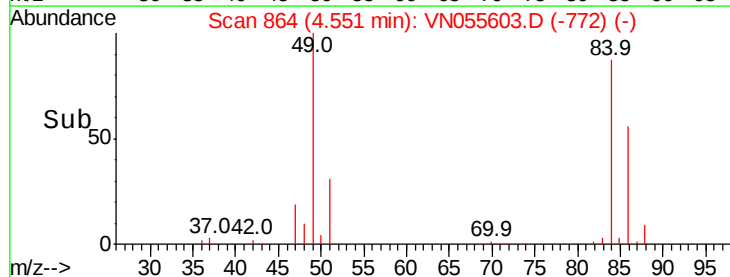
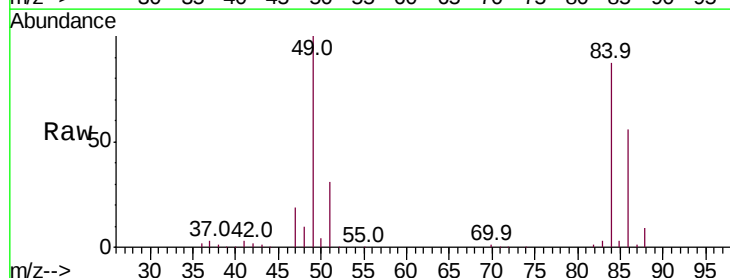
Manual Integrations
APPROVED

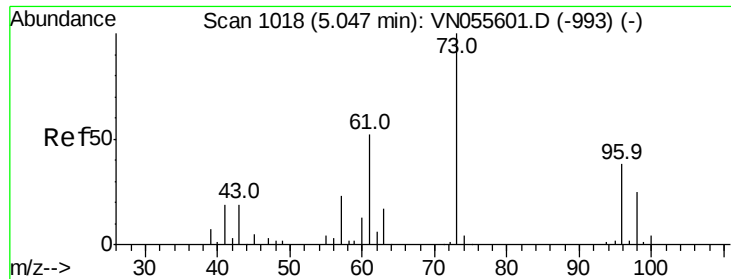
MMDadoda
5/20/2019 9:10:16 AM



#20
Methylene Chloride
Concen: 137.256 ug/l
RT: 4.55 min Scan# 864
Delta R.T. -0.00 min
Lab File: VN055603.D
Acq: 17 May 2019 11:26

Tgt Ion: 84 Resp: 461124
Ion Ratio Lower Upper
84 100
49 114.6 91.0 136.4
51 36.0 27.5 41.3
86 64.4 49.4 74.0





#21

trans-1,2-Dichloroethene

Concen: 143.638 ug/l

RT: 5.04 min Scan# 1017

Delta R.T. -0.00 min

Lab File: VN055603.D

Acq: 17 May 2019 11:26

Instrument :

MSVOA_N

ClientSampleId :

VSTDIC150

Tot Ion: 96 Resp: 446957

Ion Ratio Lower Upper

96 100

61 133.4 108.6 162.8

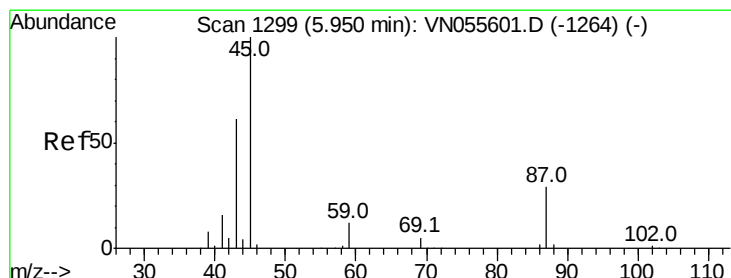
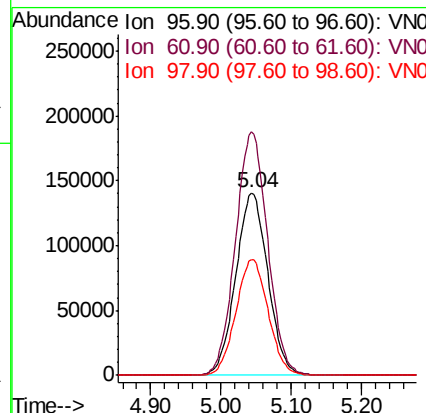
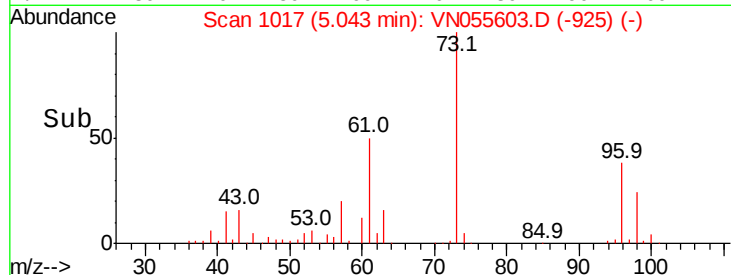
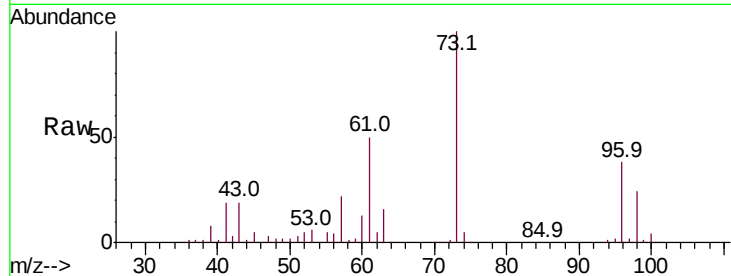
98 63.7 51.4 77.0

Manual Integrations

APPROVED

MMDadoda

5/20/2019 9:10:16 AM



#22

Diisopropyl ether

Concen: 162.891 ug/l

RT: 5.95 min Scan# 1299

Delta R.T. -0.00 min

Lab File: VN055603.D

Acq: 17 May 2019 11:26

Tgt Ion: 45 Resp: 1378570

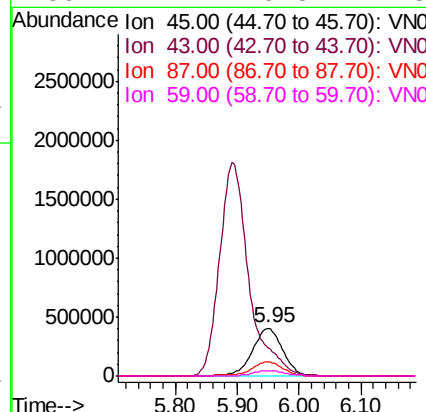
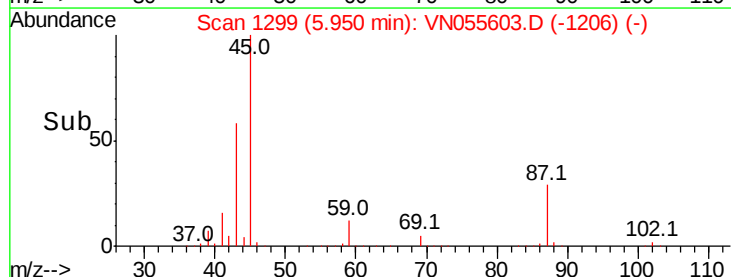
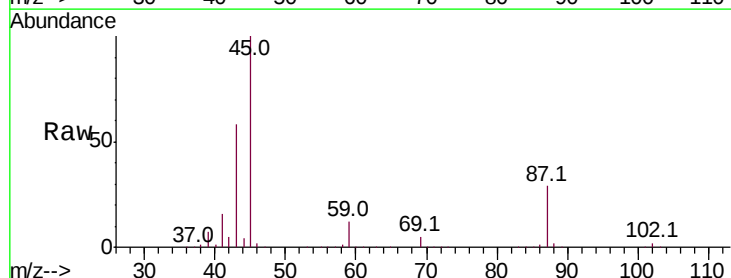
Ion Ratio Lower Upper

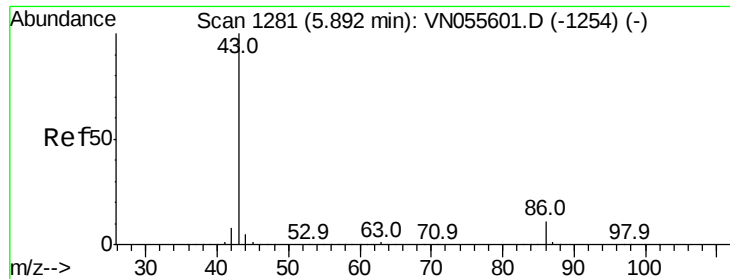
45 100

43 57.6 50.4 75.6

87 29.3 23.8 35.6

59 11.7 9.5 14.3





#23

Vinyl Acetate

Concen: 948.225 ug/l

RT: 5.89 min Scan# 1281

Delta R.T. 0.00 min

Lab File: VN055603.D

Acq: 17 May 2019 11:26

Instrument :

MSVOA_N

ClientSampleId :

VSTDIC150

Tot Ion: 43 Resp: 5980998

Ion Ratio Lower Upper

43 100

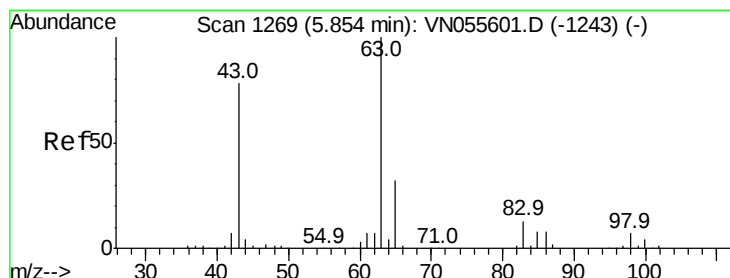
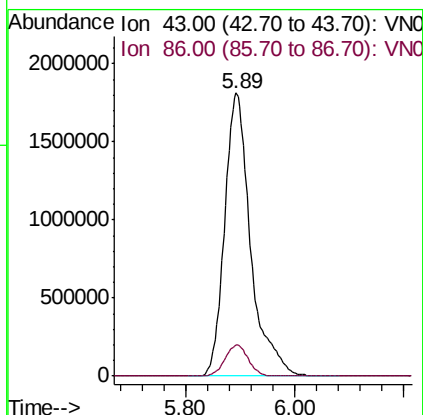
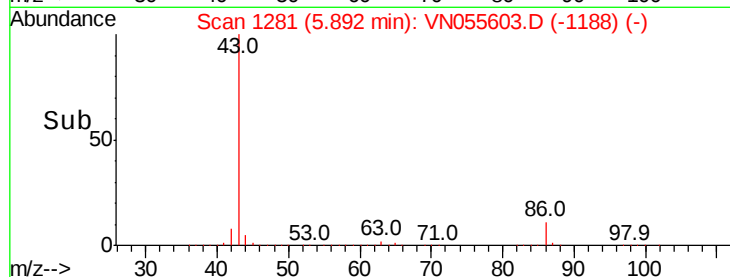
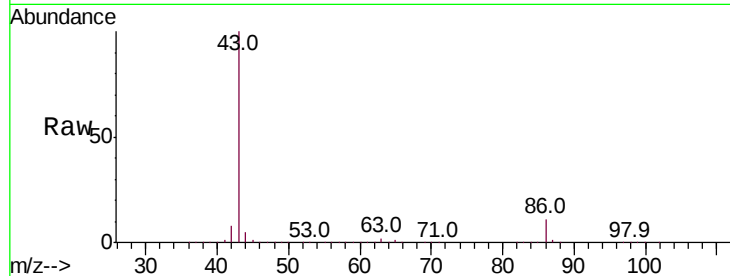
86 11.0 8.7 13.1

Manual Integrations

APPROVED

MMDadoda

5/20/2019 9:10:16 AM



#24

1,1-Dichloroethane

Concen: 139.314 ug/l

RT: 5.85 min Scan# 1268

Delta R.T. -0.00 min

Lab File: VN055603.D

Acq: 17 May 2019 11:26

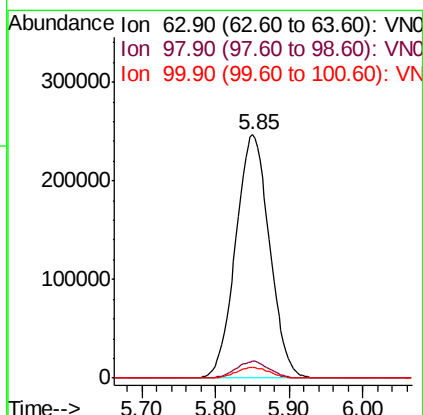
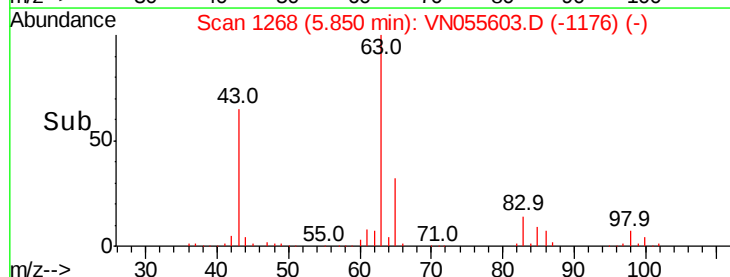
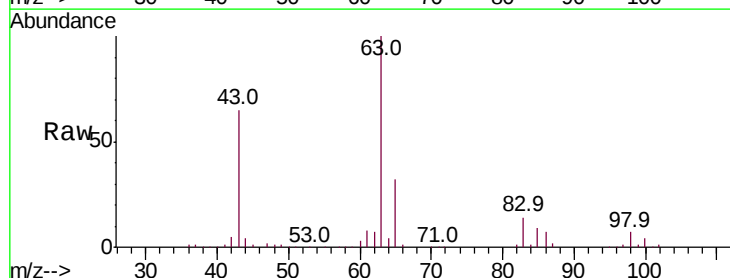
Tgt Ion: 63 Resp: 788947

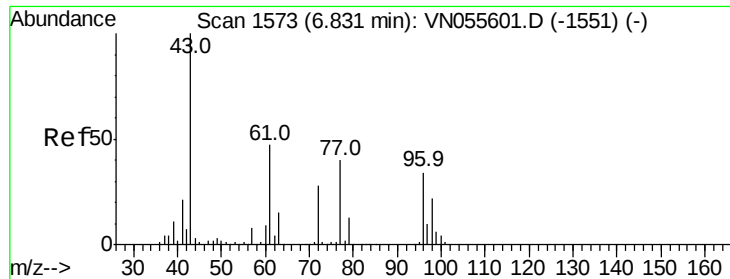
Ion Ratio Lower Upper

63 100

98 6.8 3.4 10.2

100 4.3 2.2 6.6





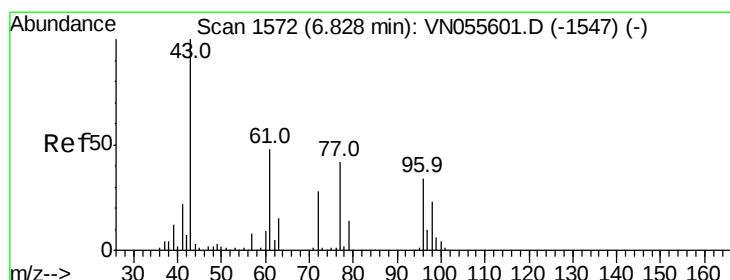
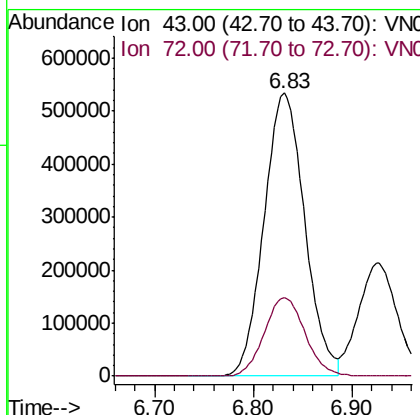
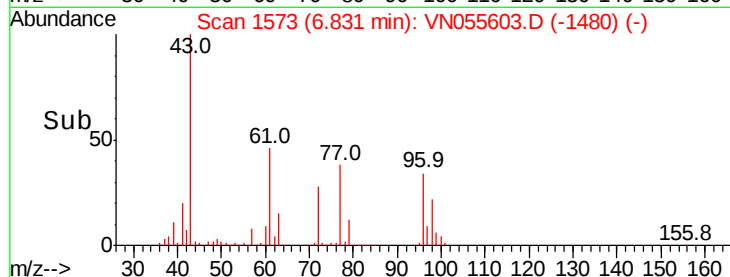
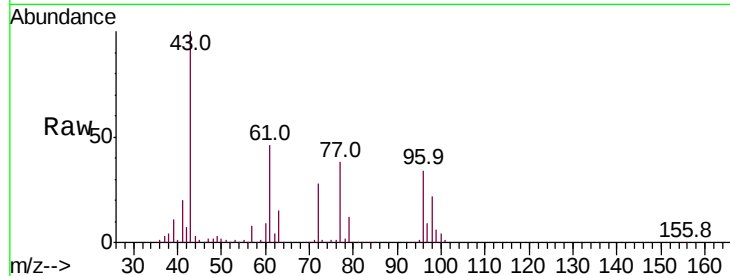
#25
2-Butanone
Concen: 1165.506 ug/l
RT: 6.83 min Scan# 1573
Delta R.T. -0.00 min
Lab File: VN055603.D
Acq: 17 May 2019 11:26

Instrument :
MSVOA_N
ClientSampleId :
VSTDIC150

Tot Ion: 43 Resp: 1523941
Ion Ratio Lower Upper
43 100
72 27.8 22.3 33.5

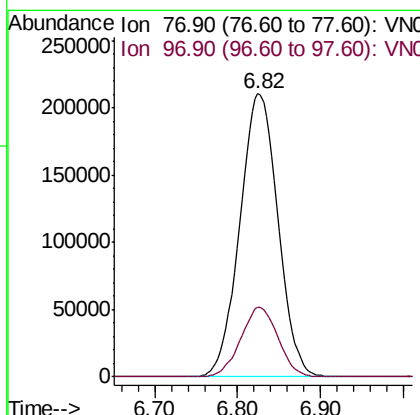
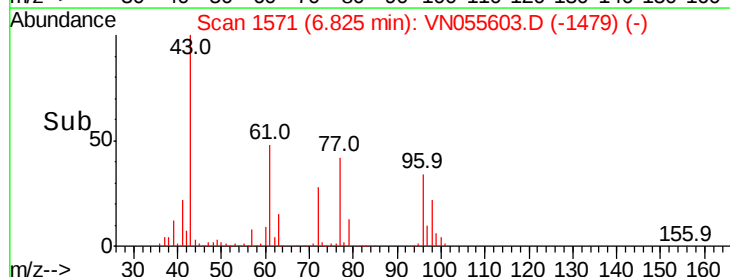
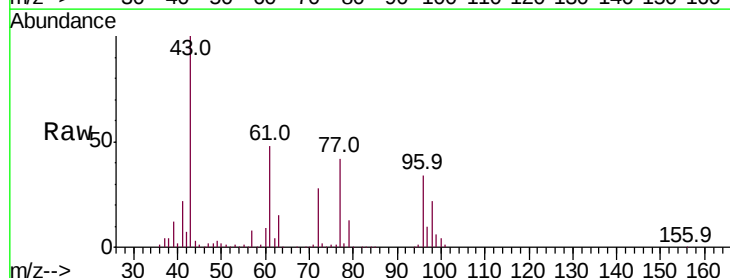
Manual Integrations
APPROVED

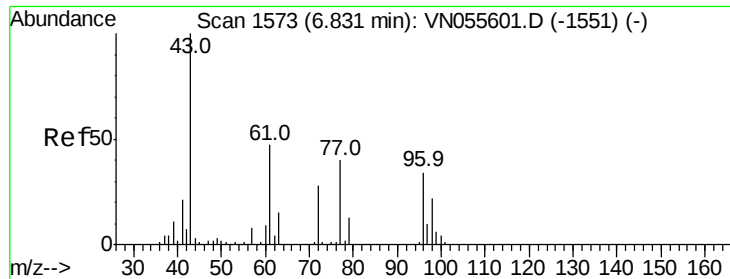
MMDadoda
5/20/2019 9:10:16 AM



#26
2,2-Dichloropropane
Concen: 153.413 ug/l
RT: 6.82 min Scan# 1571
Delta R.T. -0.00 min
Lab File: VN055603.D
Acq: 17 May 2019 11:26

Tgt Ion: 77 Resp: 672558
Ion Ratio Lower Upper
77 100
97 24.2 12.0 36.0





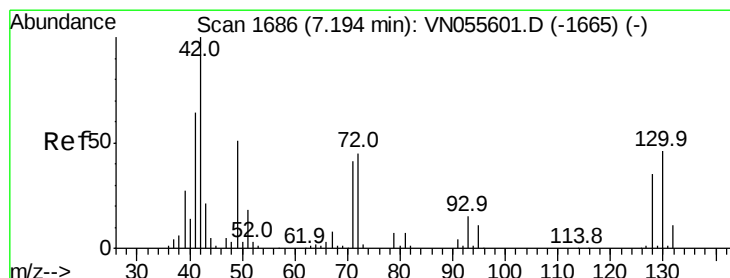
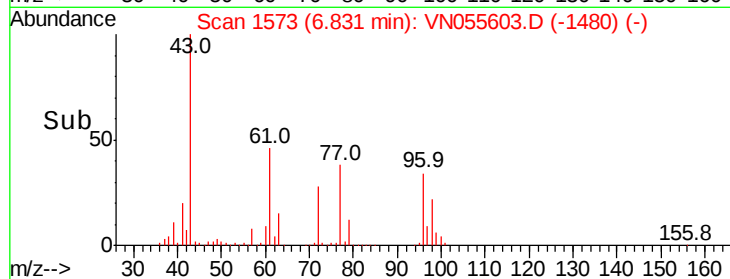
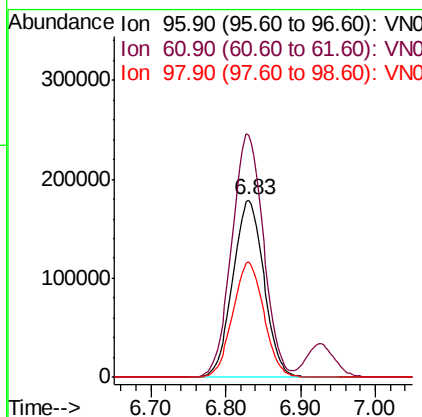
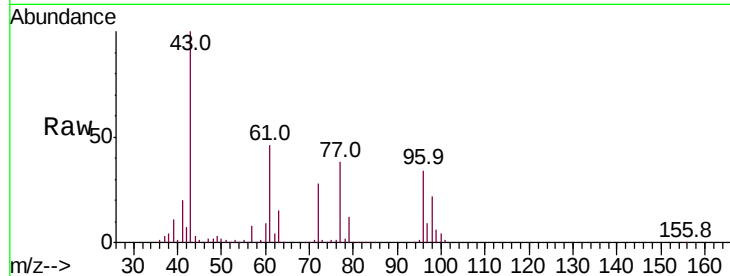
#27
 cis-1,2-Dichloroethene
 Concen: 148.365 ug/l
 RT: 6.83 min Scan# 1573
 Delta R.T. -0.00 min
 Lab File: VN055603.D
 Acq: 17 May 2019 11:26

Instrument :
 MSVOA_N
 ClientSampleId :
 VSTDIC150

Tot Ion	Ratio	Lower	Upper
96	100		
61	139.6	0.0	279.0
98	65.0	0.0	131.6

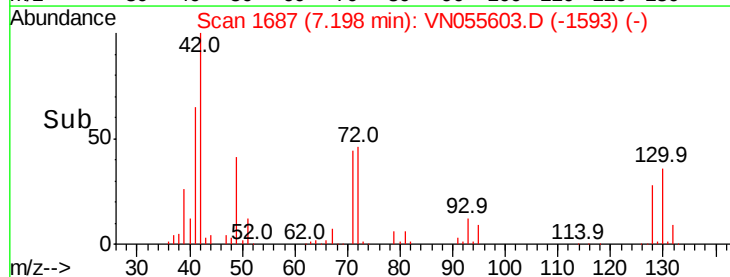
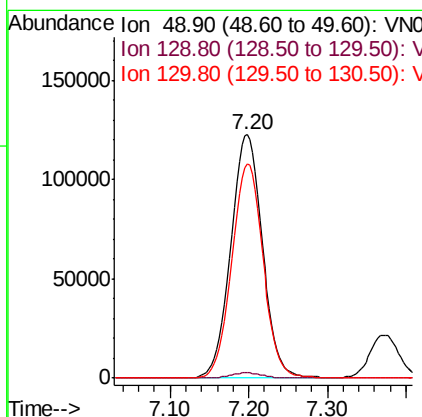
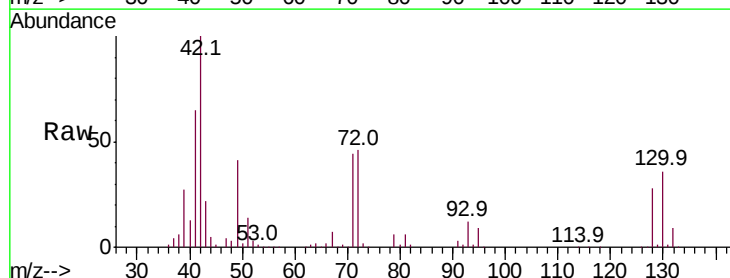
Manual Integrations
 APPROVED

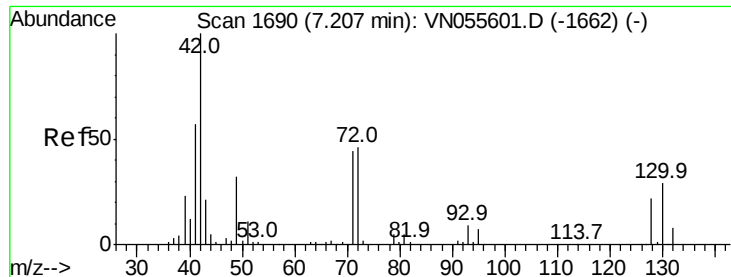
MMDadoda
 5/20/2019 9:10:16 AM



#28
 Bromochloromethane
 Concen: 139.104 ug/l
 RT: 7.20 min Scan# 1687
 Delta R.T. 0.00 min
 Lab File: VN055603.D
 Acq: 17 May 2019 11:26

Tgt Ion	Ratio	Lower	Upper
49	100		
129	2.2	0.0	4.4
130	87.3	71.0	106.6





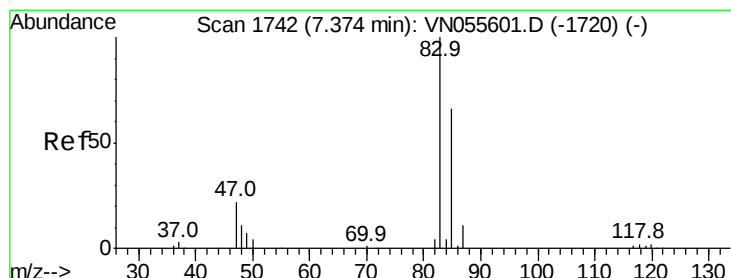
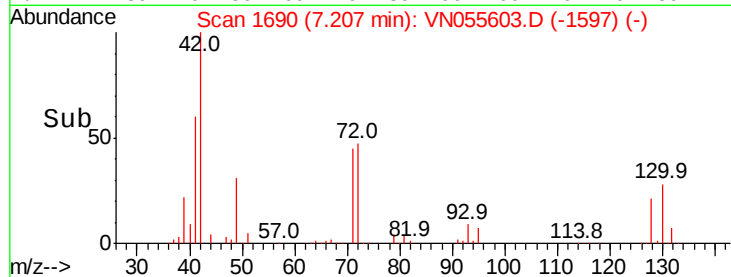
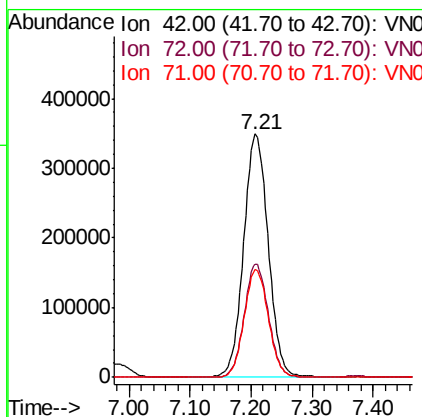
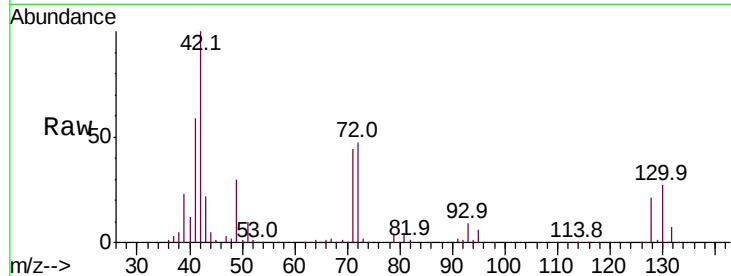
#29
Tetrahydrofuran
Concen: 1161.659 ug/l
RT: 7.21 min Scan# 1690
Delta R.T. -0.00 min
Lab File: VN055603.D
Acq: 17 May 2019 11:26

Instrument :
MSVOA_N
ClientSampleId :
VSTDIC150

Tot Ion	Ratio	Lower	Upper
42	100		
72	45.7	36.5	54.7
71	43.8	34.9	52.3

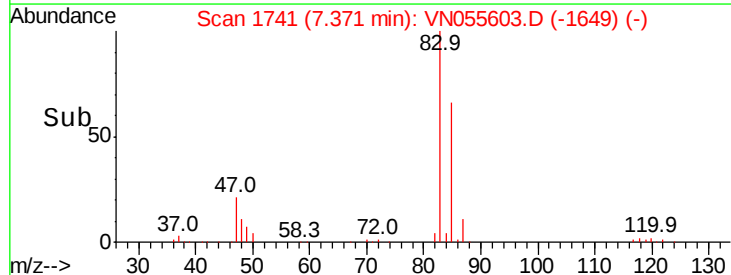
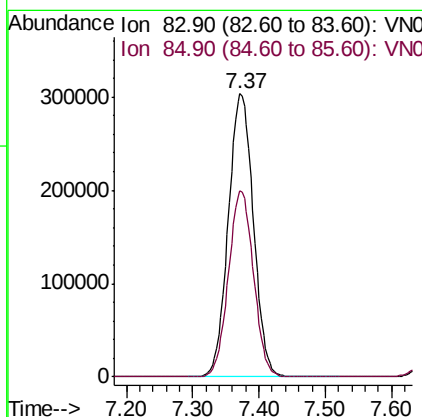
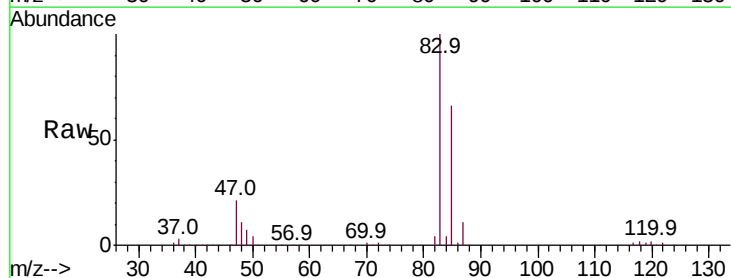
Manual Integrations
APPROVED

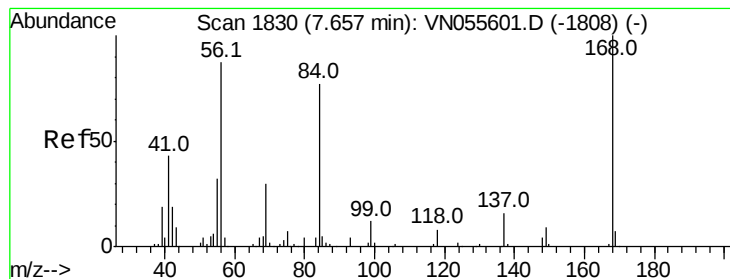
MMDadoda
5/20/2019 9:10:16 AM



#30
Chloroform
Concen: 140.181 ug/l
RT: 7.37 min Scan# 1741
Delta R.T. -0.00 min
Lab File: VN055603.D
Acq: 17 May 2019 11:26

Tgt Ion	Ratio	Lower	Upper
83	100		
85	65.8	52.6	78.8





#31

Cyclohexane

Concen: 123.693 ug/l

RT: 7.65 min Scan# 1829

Delta R.T. -0.00 min

Lab File: VN055603.D

Acq: 17 May 2019 11:26

Instrument :

MSVOA_N

ClientSampleId :

VSTDIC150

Tot Ion: 56 Resp: 728379

Ion Ratio Lower Upper

56 100

69 31.7 27.2 40.8

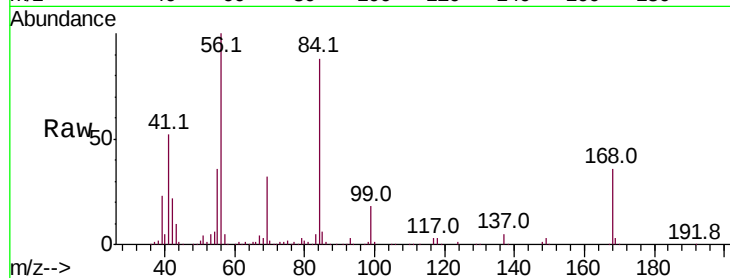
84 86.8 71.3 106.9

Manual Integrations

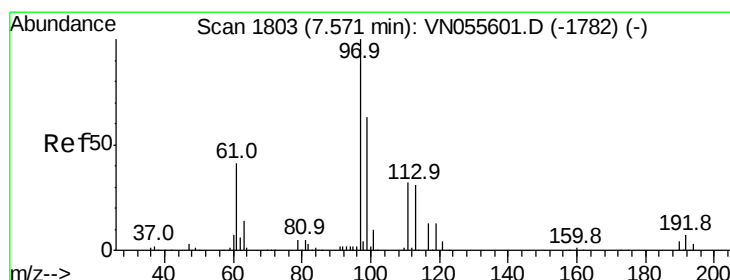
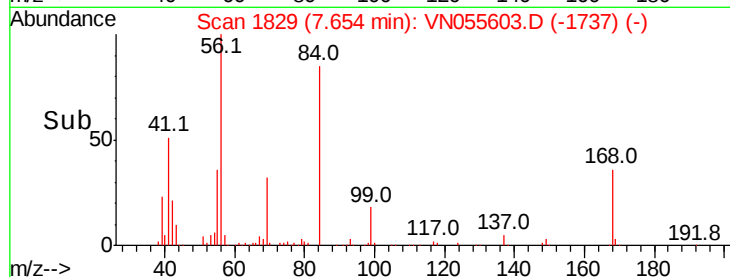
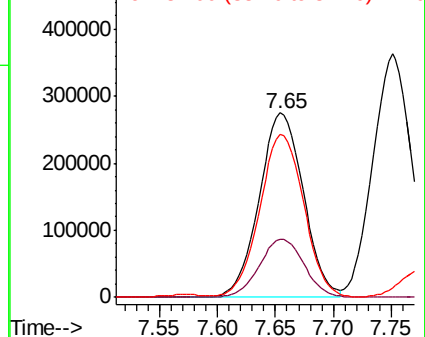
APPROVED

MMDadoda

5/20/2019 9:10:16 AM



Abundance Ion 56.00 (55.70 to 56.70): VNO
Ion 69.00 (68.70 to 69.70): VNO
Ion 84.00 (83.70 to 84.70): VNO



#32

1,1,1-Trichloroethane

Concen: 145.577 ug/l

RT: 7.57 min Scan# 1804

Delta R.T. 0.00 min

Lab File: VN055603.D

Acq: 17 May 2019 11:26

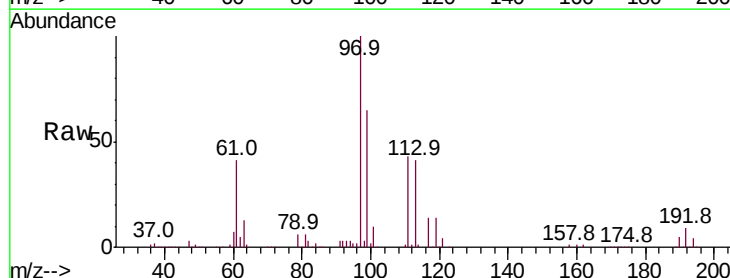
Tgt Ion: 97 Resp: 712971

Ion Ratio Lower Upper

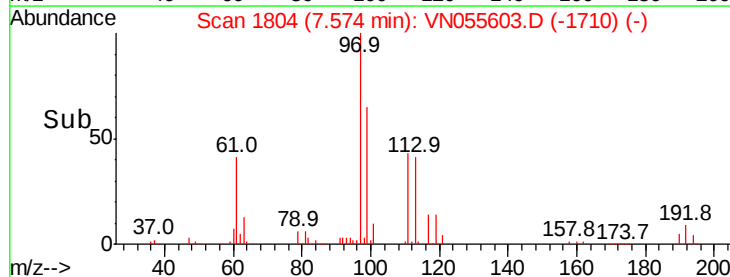
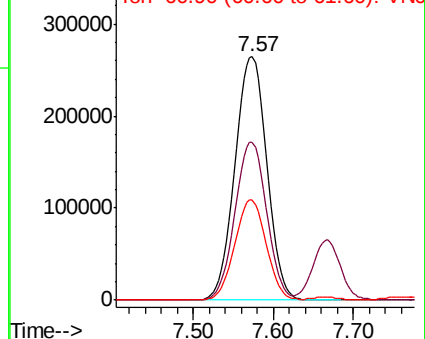
97 100

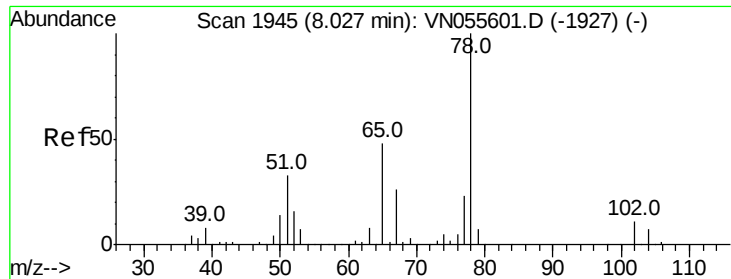
99 64.6 51.4 77.2

61 40.7 32.9 49.3



Abundance Ion 96.90 (96.60 to 97.60): VNO
Ion 98.90 (98.60 to 99.60): VNO
Ion 60.90 (60.60 to 61.60): VNO





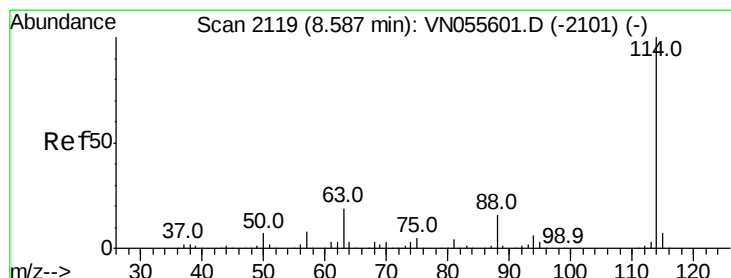
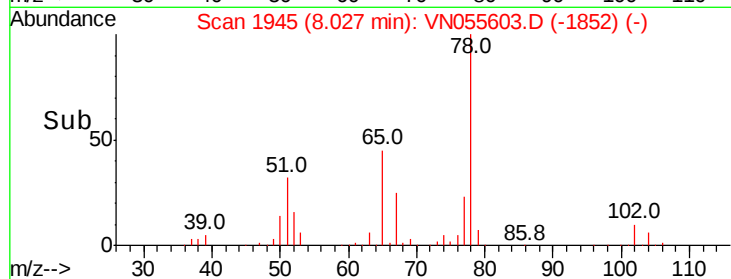
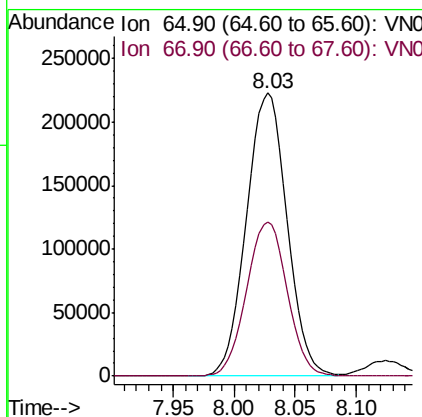
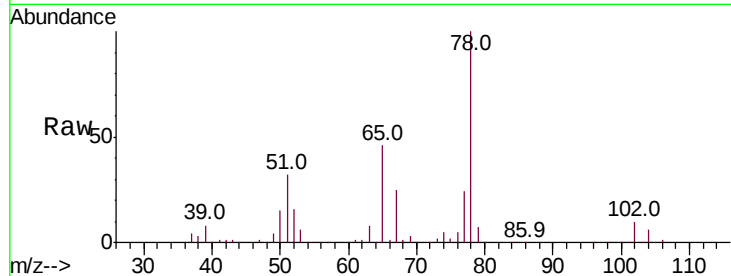
#33
 1,2-Dichloroethane-d4
 Concen: 154.436 ug/l
 RT: 8.03 min Scan# 1945
 Delta R.T. 0.00 min
 Lab File: VN055603.D
 Acq: 17 May 2019 11:26

Instrument :
 MSVOA_N
 ClientSampleId :
 VSTDIC150

Tot Ion	Ratio	Resp	Lower	Upper
65	100	513831		
67	54.8	0.0	108.6	

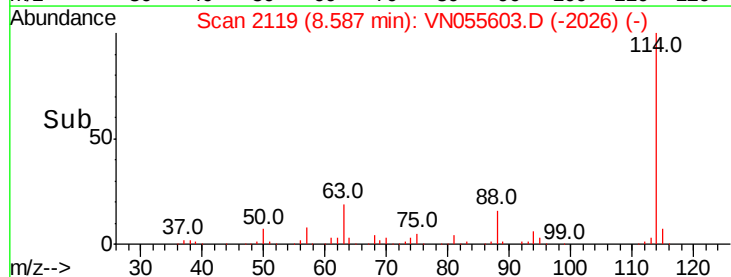
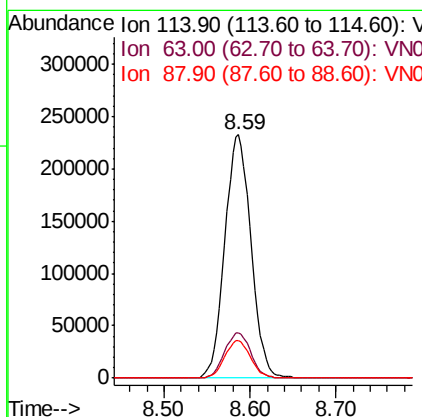
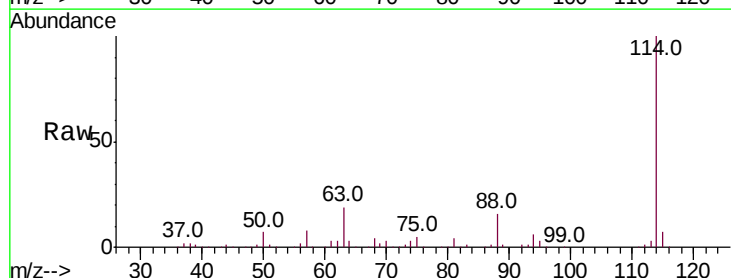
Manual Integrations
 APPROVED

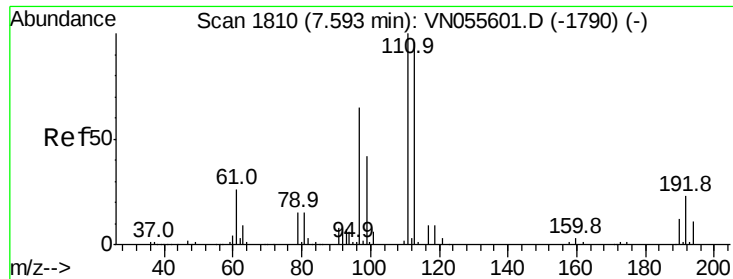
MMDadoda
 5/20/2019 9:10:16 AM



#34
 1,4-Difluorobenzene
 Concen: 50.000 ug/l
 RT: 8.59 min Scan# 2119
 Delta R.T. -0.00 min
 Lab File: VN055603.D
 Acq: 17 May 2019 11:26

Tgt Ion	Ratio	Resp	Lower	Upper
114	100	491976		
63	18.6	0.0	38.2	
88	15.7	0.0	31.0	





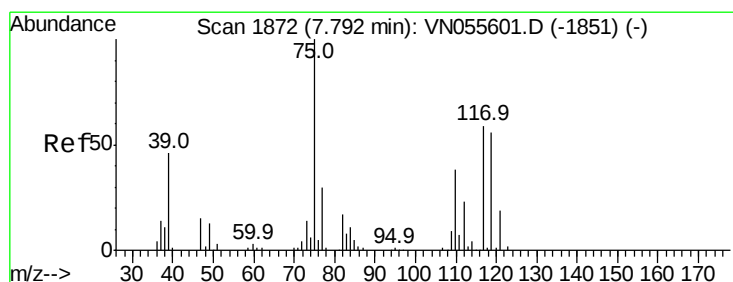
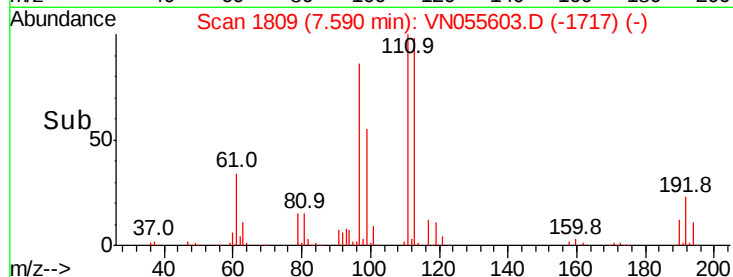
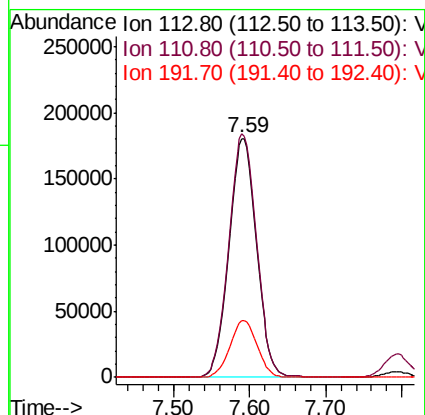
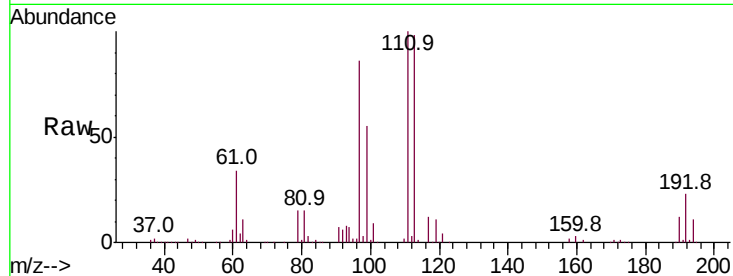
#35
 Dibromofluoromethane
 Concen: 141.237 ug/l
 RT: 7.59 min Scan# 1809
 Delta R.T. -0.00 min
 Lab File: VN055603.D
 Acq: 17 May 2019 11:26

Instrument :
 MSVOA_N
 ClientSampleId :
 VSTDIC150

Tot Ion	Ratio	Lower	Upper
113	100		
111	102.6	82.5	123.7
192	23.5	18.7	28.1

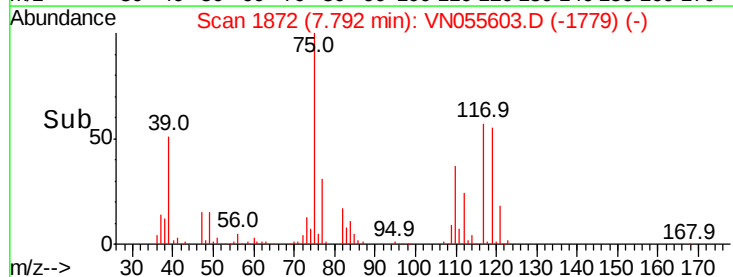
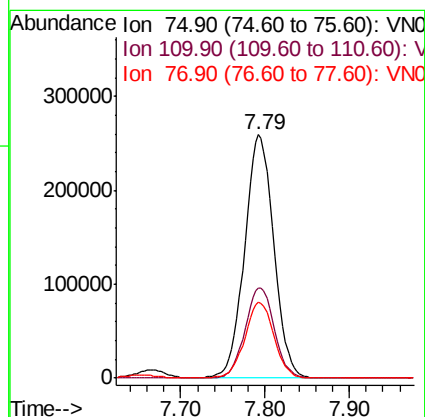
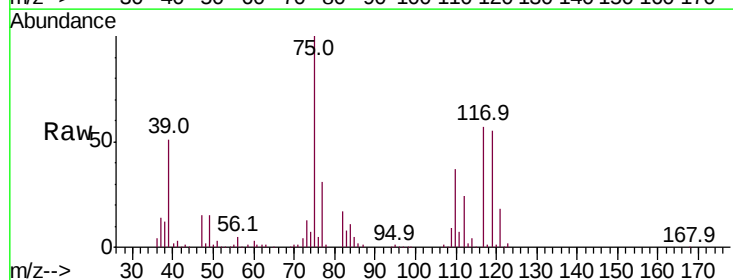
Manual Integrations
 APPROVED

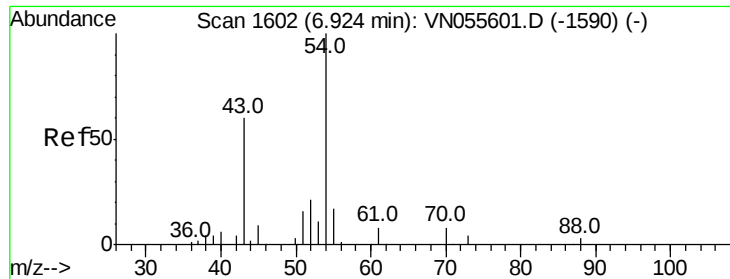
MMDadoda
 5/20/2019 9:10:16 AM



#36
 1,1-Dichloropropene
 Concen: 138.444 ug/l
 RT: 7.79 min Scan# 1872
 Delta R.T. 0.00 min
 Lab File: VN055603.D
 Acq: 17 May 2019 11:26

Tgt Ion	Ratio	Lower	Upper
75	100		
110	37.2	18.6	55.6
77	31.3	24.9	37.3





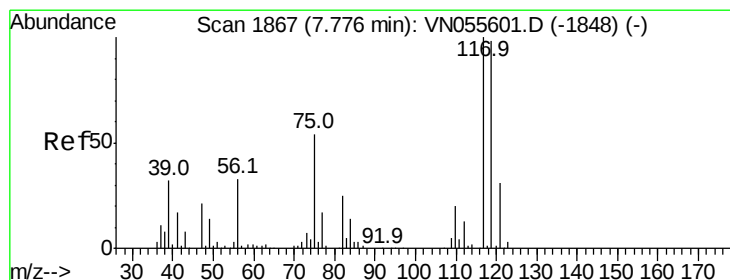
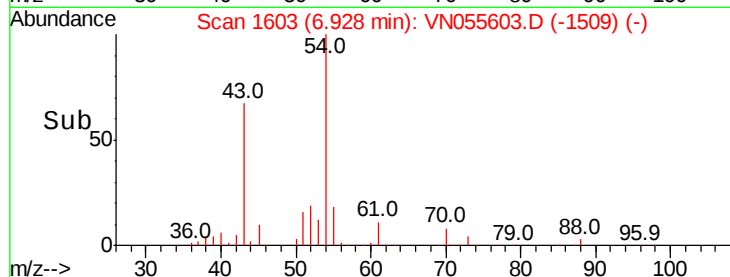
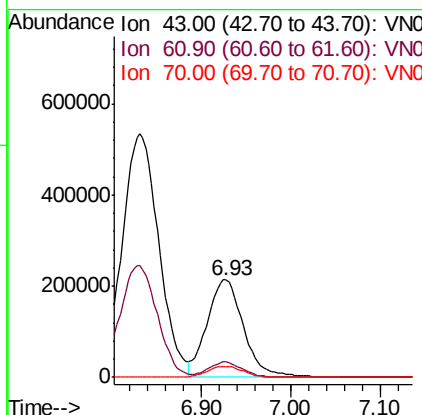
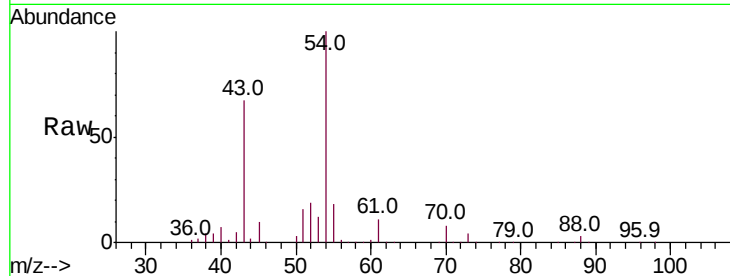
#37
Ethyl Acetate
Concen: 217.863 ug/l
RT: 6.93 min Scan# 1603
Delta R.T. 0.00 min
Lab File: VN055603.D
Acq: 17 May 2019 11:26

Instrument :
MSVOA_N
ClientSampleId :
VSTDIC150

Tot Ion	Ratio	Lower	Upper
43	100		
61	15.0	11.4	17.0
70	11.4	9.2	13.8

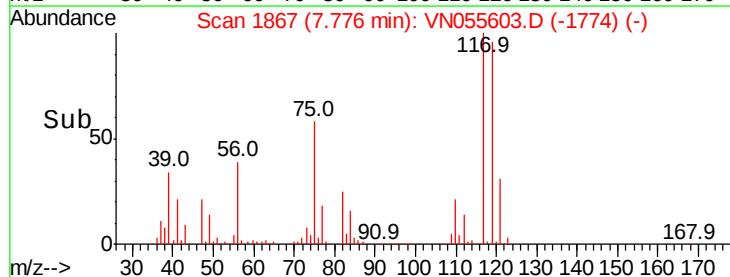
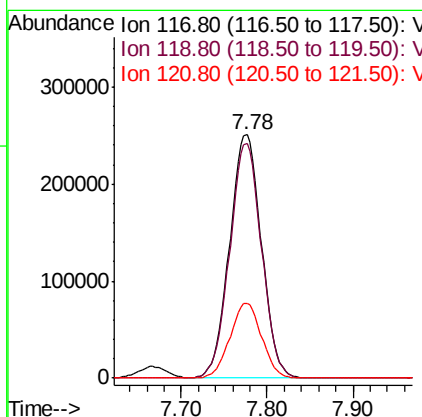
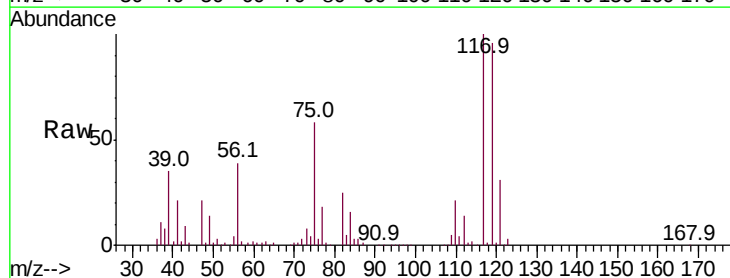
Manual Integrations
APPROVED

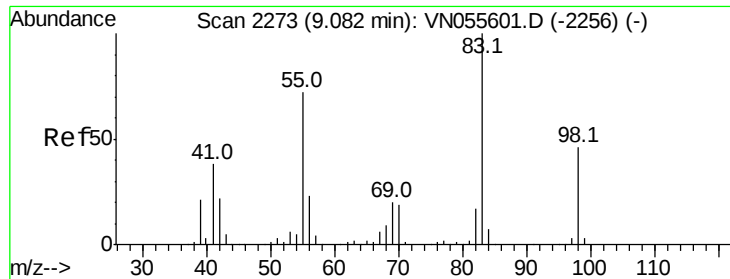
MMDadoda
5/20/2019 9:10:16 AM



#38
Carbon Tetrachloride
Concen: 133.501 ug/l
RT: 7.78 min Scan# 1867
Delta R.T. -0.00 min
Lab File: VN055603.D
Acq: 17 May 2019 11:26

Tgt Ion	Ratio	Lower	Upper
117	100		
119	96.3	77.8	116.8
121	30.8	24.6	37.0





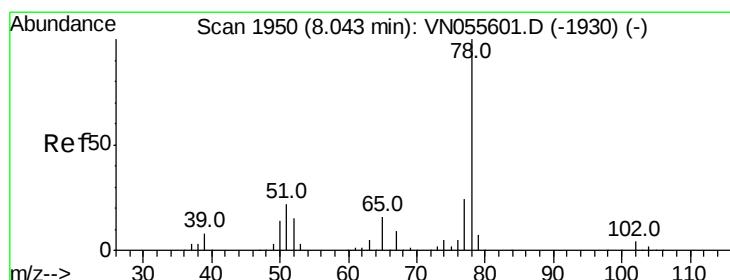
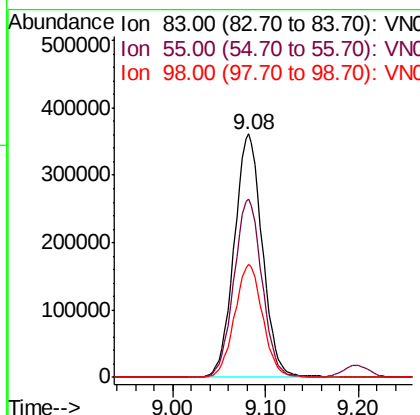
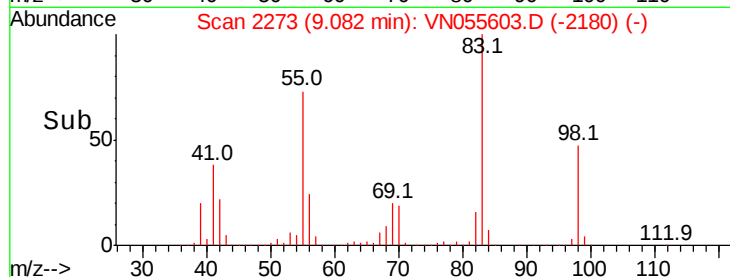
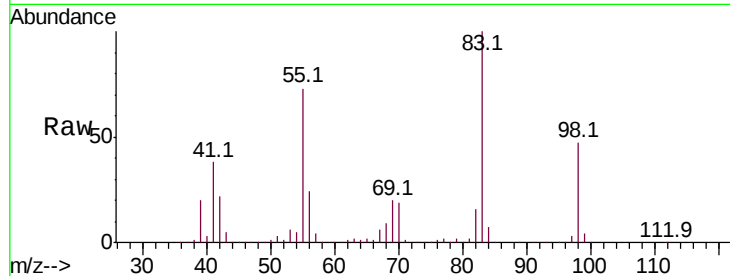
#39
Methvlcvclohexane
Concen: 147.221 ug/l
RT: 9.08 min Scan# 2273
Delta R.T. 0.00 min
Lab File: VN055603.D
Acq: 17 May 2019 11:26

Instrument :
MSVOA_N
ClientSampleId :
VSTDIC150

Tot Ion	83	Resp	758827
Ion Ratio	100	Lower	Upper
83	100		
55	73.4	57.8	86.6
98	46.6	36.7	55.1

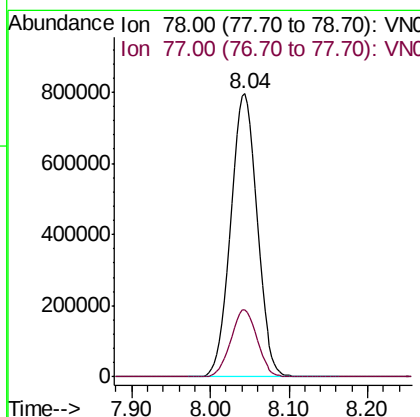
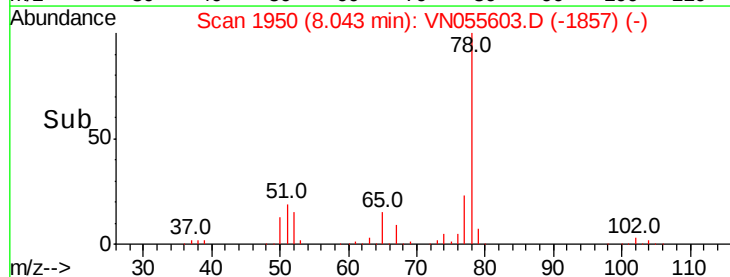
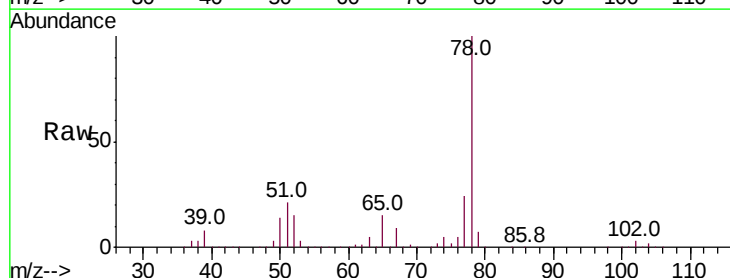
Manual Integrations
APPROVED

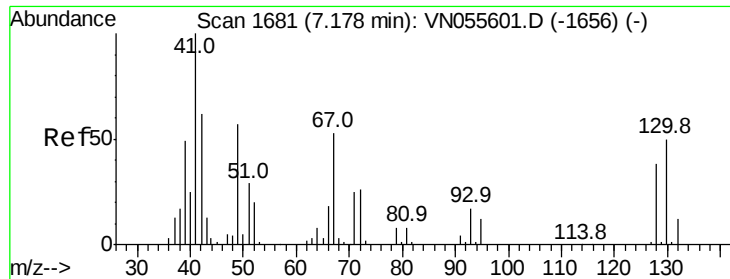
MMDadoda
5/20/2019 9:10:16 AM



#40
Benzene
Concen: 140.523 ug/l
RT: 8.04 min Scan# 1950
Delta R.T. -0.00 min
Lab File: VN055603.D
Acq: 17 May 2019 11:26

Tgt Ion	78	Resp	1856358
Ion Ratio	100	Lower	Upper
78	100		
77	23.7	18.9	28.3





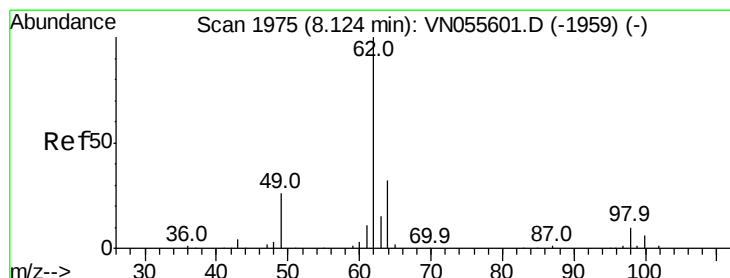
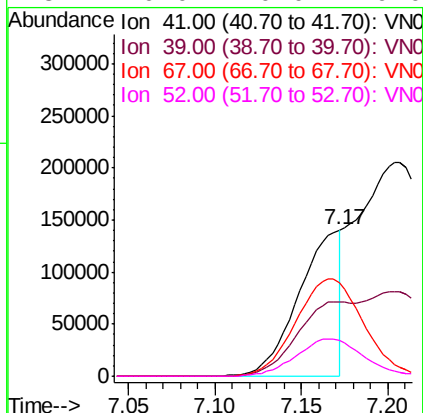
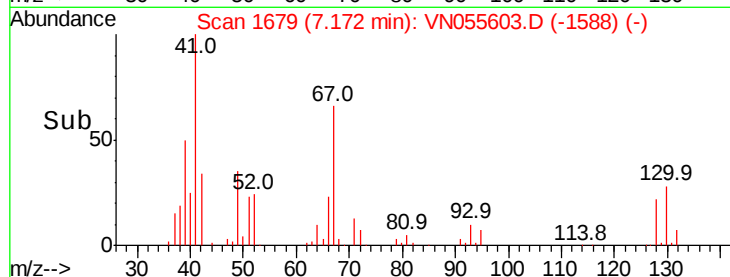
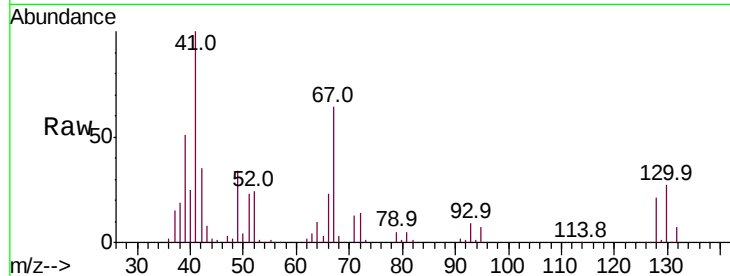
#41
Methacrylonitrile
Concen: 166.392 ug/l m
RT: 7.17 min Scan# 1679
Delta R.T. -0.01 min
Lab File: VN055603.D
Acq: 17 May 2019 11:26

Instrument :
MSVOA_N
ClientSampleId :
VSTDIC150

Tot Ion	Ratio	Lower	Upper
41	100		
39	0.0	0.0	0.0
67	0.0	0.0	0.0
52	0.0	0.0	0.0

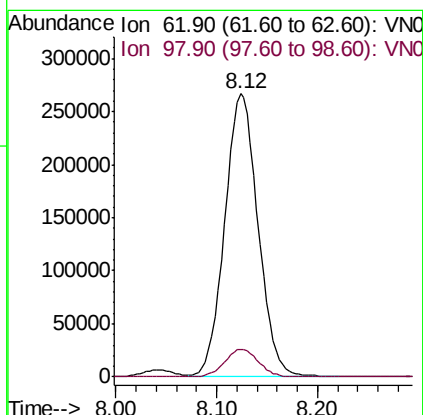
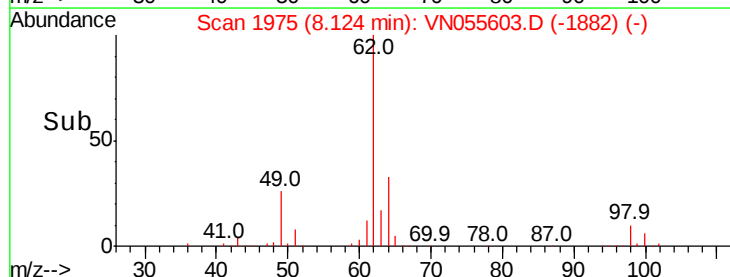
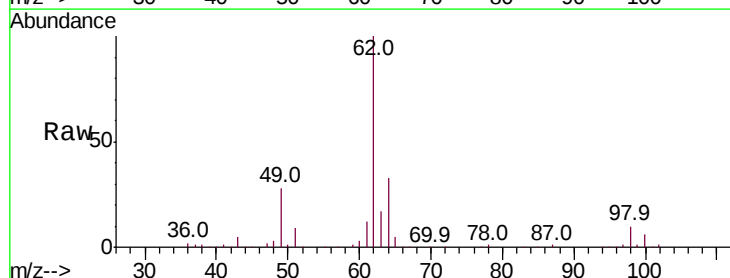
Manual Integrations
APPROVED

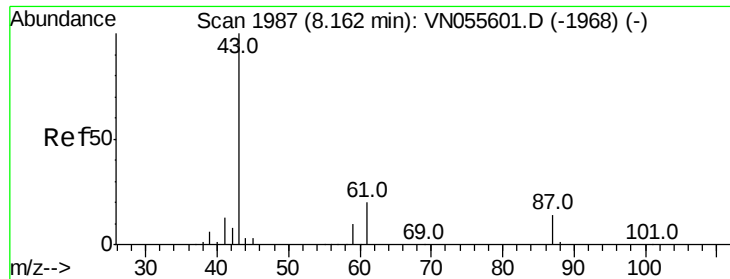
MMDadoda
5/20/2019 9:10:16 AM



#42
1,2-Dichloroethane
Concen: 151.890 ug/l
RT: 8.12 min Scan# 1975
Delta R.T. -0.00 min
Lab File: VN055603.D
Acq: 17 May 2019 11:26

Tgt Ion	Ratio	Lower	Upper
62	100		
98	10.0	0.0	20.2





#43

Isopropyl Acetate

Concen: 199.869 ug/l

RT: 8.16 min Scan# 1987

Delta R.T. -0.00 min

Lab File: VN055603.D

Acq: 17 May 2019 11:26

Instrument :

MSVOA_N

ClientSampleId :

VSTDIC150

Tot Ion: 43 Resp: 1039656

Ion Ratio Lower Upper

43 100

61 27.5 22.1 33.1

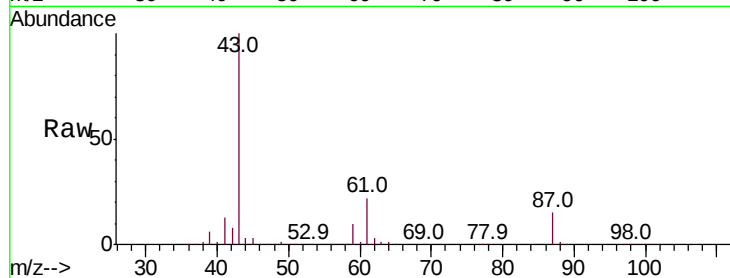
87 14.5 11.8 17.6

Manual Integrations

APPROVED

MMDadoda

5/20/2019 9:10:16 AM



Abundance Ion 43.00 (42.70 to 43.70): VN055601.D (-1968) (-)

Ion 61.00 (60.70 to 61.70): VN055601.D (-1968) (-)

Ion 87.00 (86.70 to 87.70): VN055601.D (-1968) (-)

8.16

600000

500000

400000

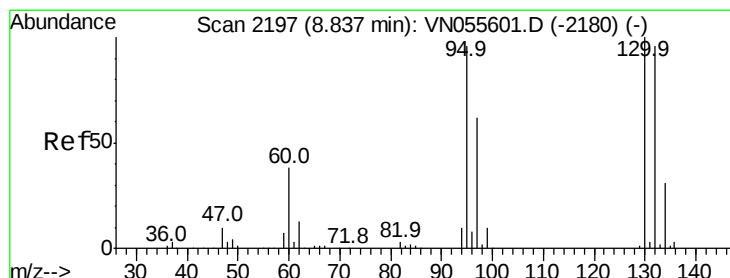
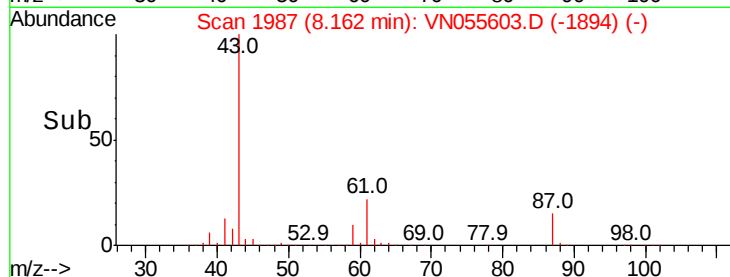
300000

200000

100000

0

Time--> 8.00 8.10 8.20 8.30



#44

Trichloroethene

Concen: 142.884 ug/l

RT: 8.84 min Scan# 2197

Delta R.T. -0.00 min

Lab File: VN055603.D

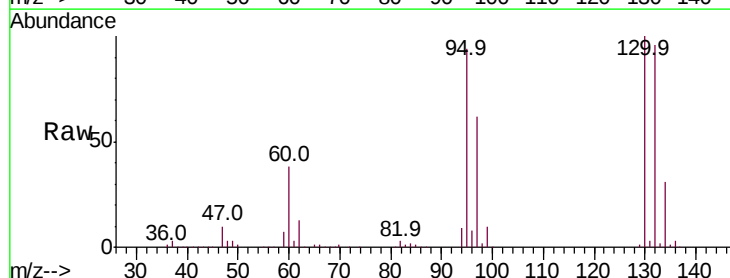
Acq: 17 May 2019 11:26

Tgt Ion:130 Resp: 529098

Ion Ratio Lower Upper

130 100

95 93.9 0.0 191.0



Abundance Ion 129.80 (129.50 to 130.50): VN055601.D (-2180) (-)

Ion 94.90 (94.60 to 95.60): VN055601.D (-2180) (-)

8.84

300000

250000

200000

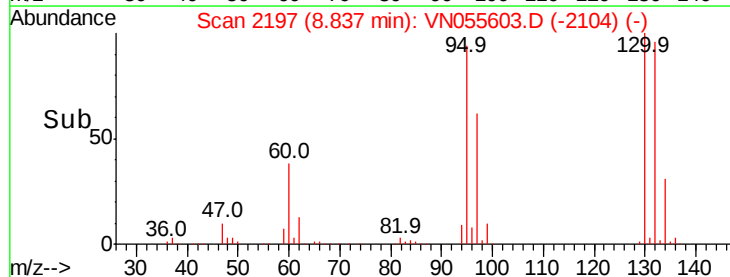
150000

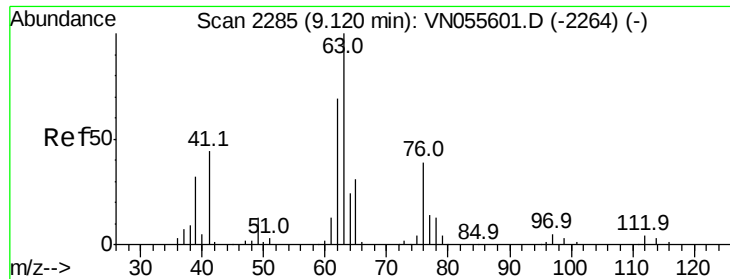
100000

50000

0

Time--> 8.70 8.80 8.90 9.00





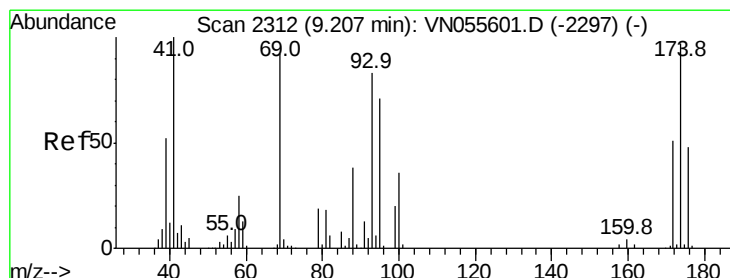
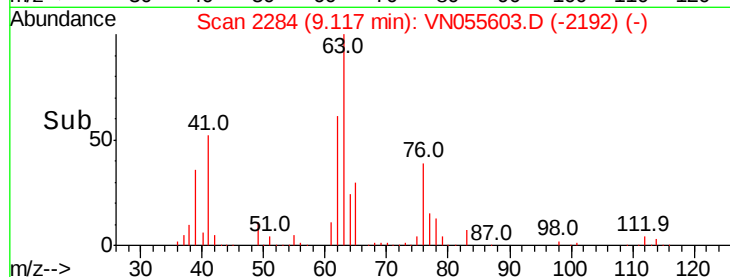
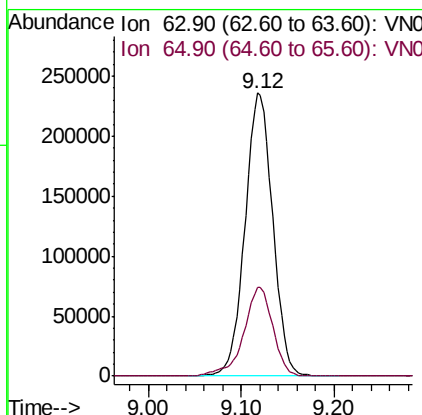
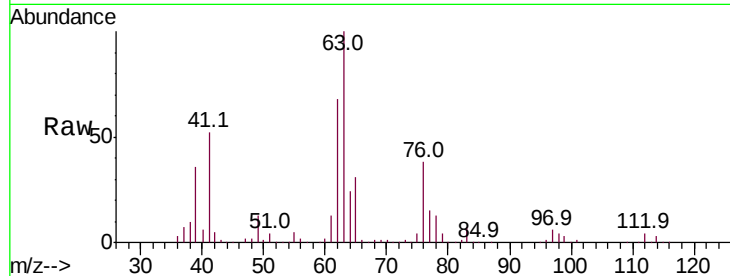
#45
 1,2-Dichloropropane
 Concen: 144.315 ug/l
 RT: 9.12 min Scan# 2284
 Delta R.T. -0.00 min
 Lab File: VN055603.D
 Acq: 17 May 2019 11:26

Instrument :
 MSVOA_N
 ClientSampleId :
 VSTDIC150

Tot Ion: 63 Resp: 489525
 Ion Ratio Lower Upper
 63 100
 65 31.2 25.2 37.8

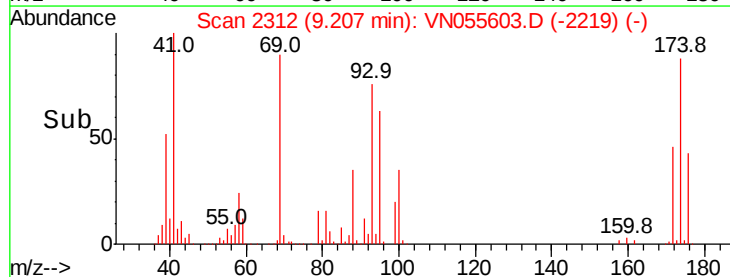
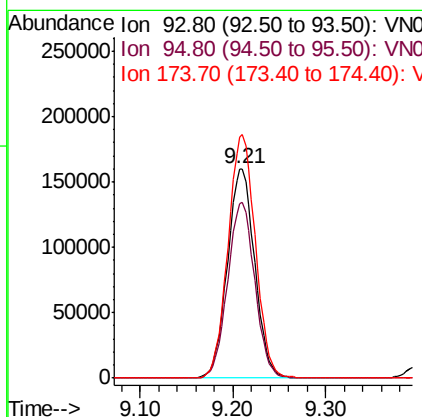
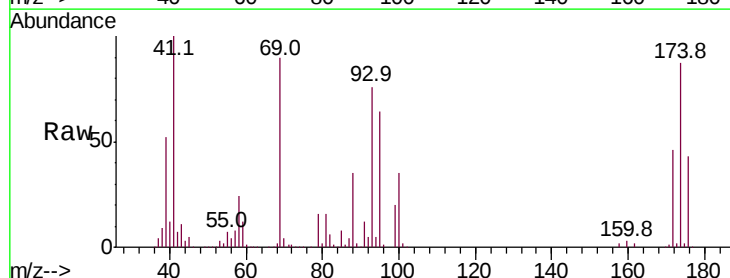
Manual Integrations
 APPROVED

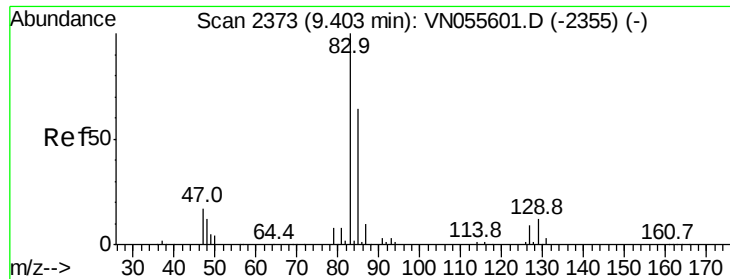
MMDadoda
 5/20/2019 9:10:16 AM



#46
 Dibromomethane
 Concen: 157.819 ug/l
 RT: 9.21 min Scan# 2312
 Delta R.T. 0.00 min
 Lab File: VN055603.D
 Acq: 17 May 2019 11:26

Tgt Ion: 93 Resp: 326902
 Ion Ratio Lower Upper
 93 100
 95 83.8 67.9 101.9
 174 116.5 93.8 140.6





#47

Bromodichloromethane

Concen: 152.257 ug/l

RT: 9.40 min Scan# 2373

Delta R.T. 0.00 min

Lab File: VN055603.D

Acq: 17 May 2019 11:26

Instrument :

MSVOA_N

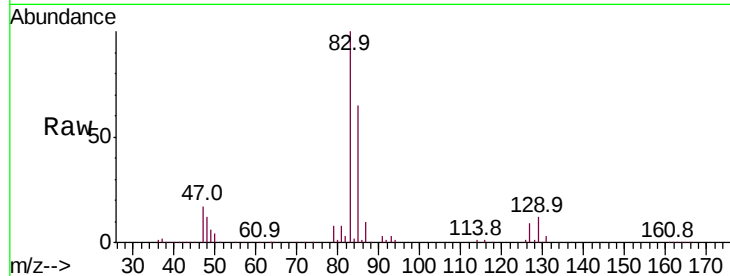
ClientSampleId :

VSTDIC150

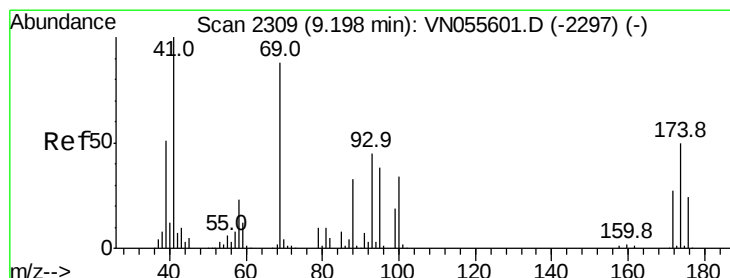
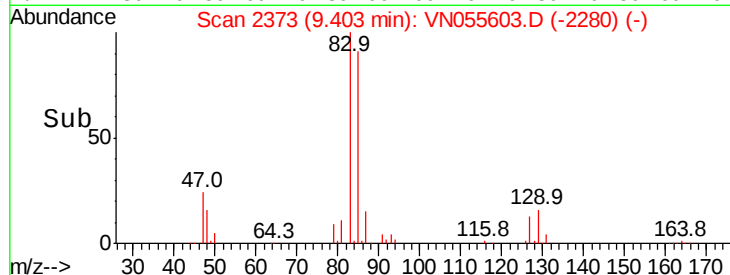
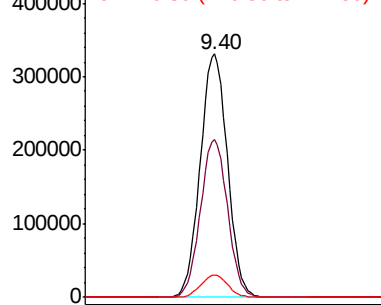
Tot Ion:	83	Resp:	661931
Ion Ratio	Lower	Upper	
83	100		
85	64.9	51.4	77.0
127	9.3	7.1	10.7

Manual Integrations
APPROVED

MMDadoda
5/20/2019 9:10:16 AM



Abundance Ion 82.90 (82.60 to 83.60): VN055603.D (-2280) (-)



#48

Methyl methacrylate

Concen: 218.144 ug/l

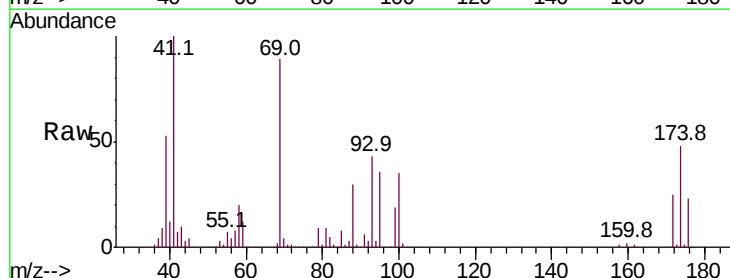
RT: 9.20 min Scan# 2309

Delta R.T. 0.00 min

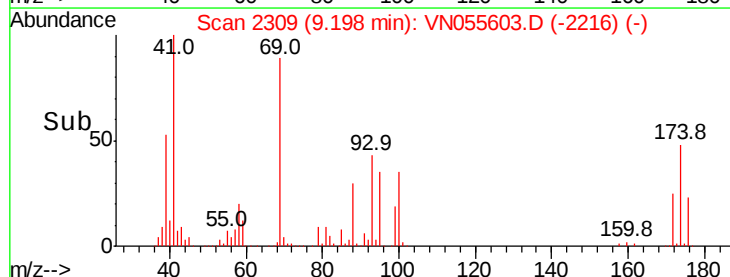
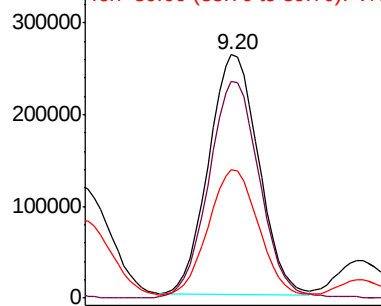
Lab File: VN055603.D

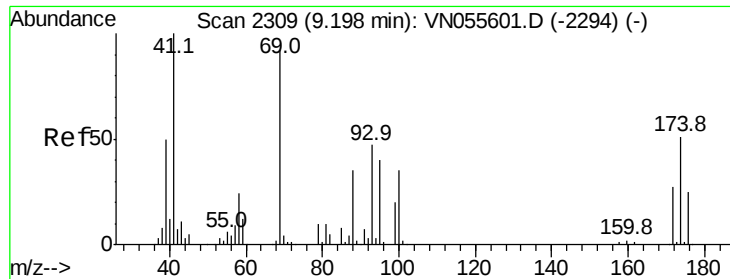
Acq: 17 May 2019 11:26

Tgt Ion:	41	Resp:	488479
Ion Ratio	Lower	Upper	
41	100		
69	92.3	74.2	111.2
39	54.9	43.8	65.8



Abundance Ion 41.00 (40.70 to 41.70): VN055603.D (-2216) (-)





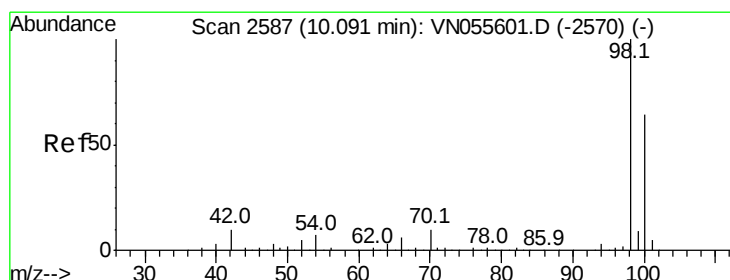
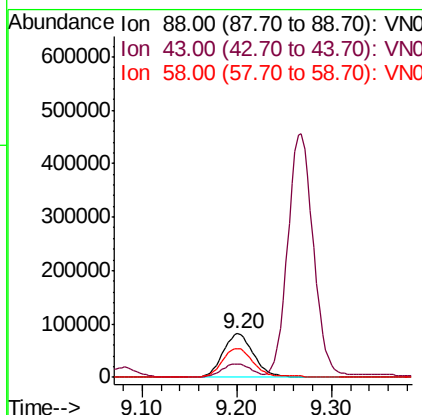
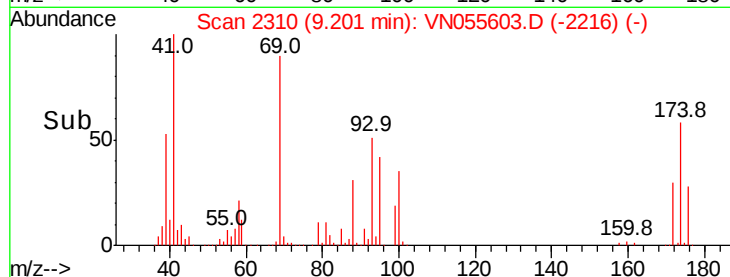
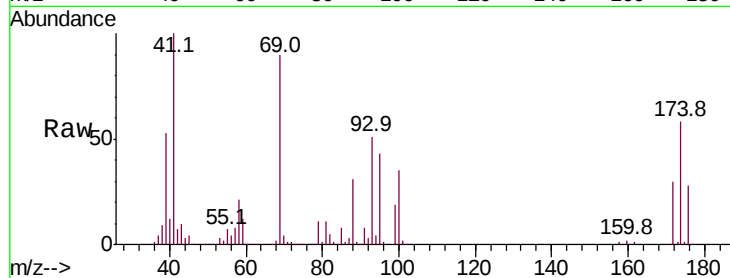
#49
1,4-Dioxane
Concen: 5078.892 ug/l
RT: 9.20 min Scan# 2310
Delta R.T. 0.00 min
Lab File: VN055603.D
Acq: 17 May 2019 11:26

Instrument :
MSVOA_N
ClientSampleId :
VSTDIC150

Tot Ion	Ratio	Lower	Upper
88	100		
43	28.1	22.4	33.6
58	68.8	53.4	80.2

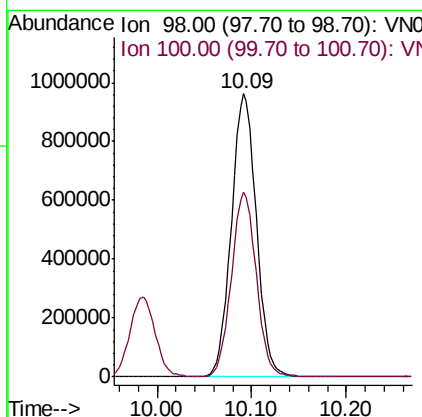
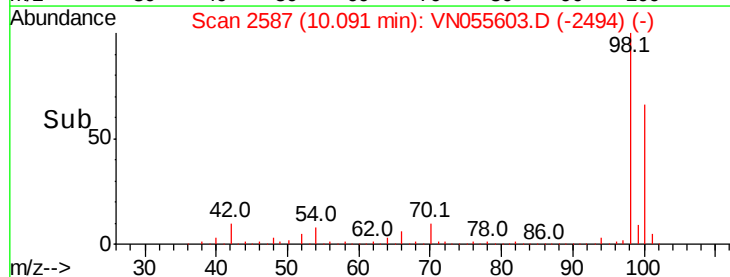
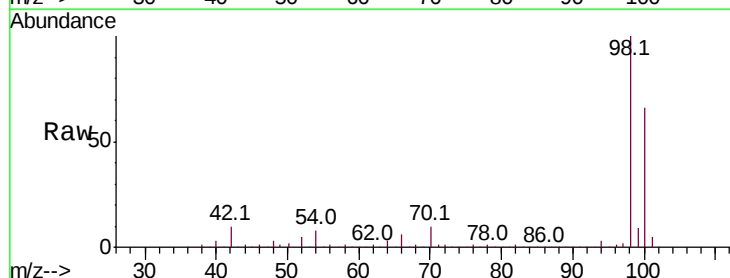
Manual Integrations
APPROVED

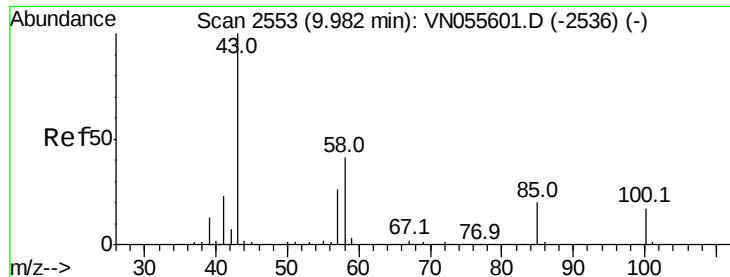
MMDadoda
5/20/2019 9:10:16 AM



#50
Toluene-d8
Concen: 152.776 ug/l
RT: 10.09 min Scan# 2587
Delta R.T. -0.00 min
Lab File: VN055603.D
Acq: 17 May 2019 11:26

Tgt Ion	Ratio	Lower	Upper
98	100		
100	65.0	51.9	77.9





#51

4-Methyl-2-Pentanone

Concen: 1237.376 ug/l

RT: 9.99 min Scan# 2554

Delta R.T. 0.00 min

Lab File: VN055603.D

Acq: 17 May 2019 11:26

Instrument :

MSVOA_N

ClientSampleID :

VSTDIC150

Tot Ion: 43 Resp: 3068406

Ion Ratio Lower Upper

43 100

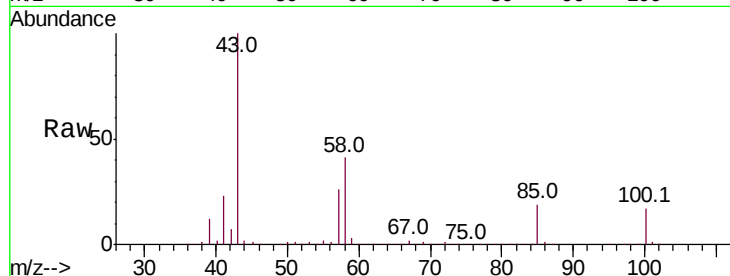
58 41.1 32.7 49.1

Manual Integrations

APPROVED

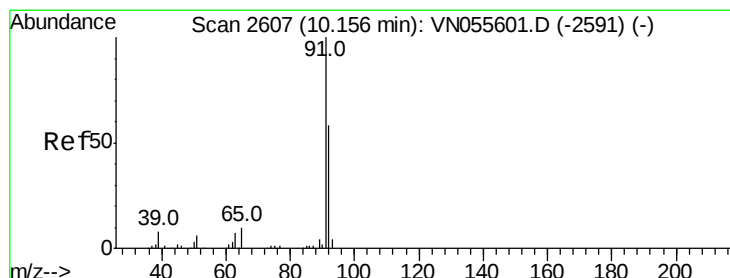
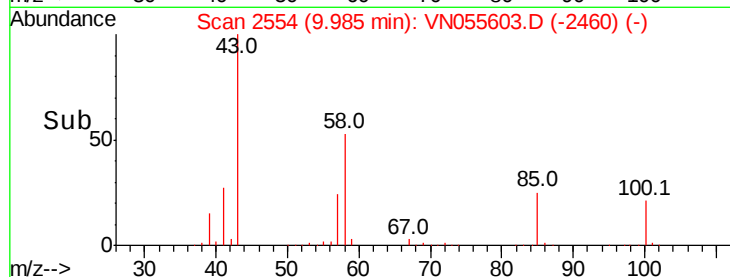
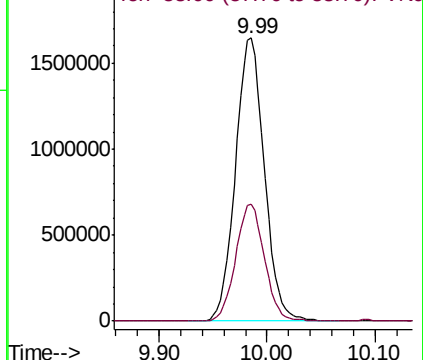
MMDadoda

5/20/2019 9:10:16 AM



Abundance Ion 43.00 (42.70 to 43.70): VN0

Ion 58.00 (57.70 to 58.70): VN0



#52

Toluene

Concen: 153.058 ug/l

RT: 10.16 min Scan# 2607

Delta R.T. 0.00 min

Lab File: VN055603.D

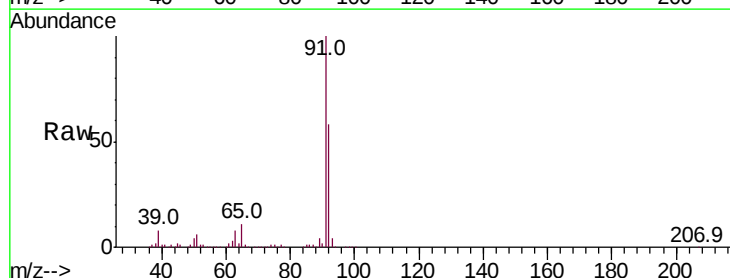
Acq: 17 May 2019 11:26

Tgt Ion: 92 Resp: 1195232

Ion Ratio Lower Upper

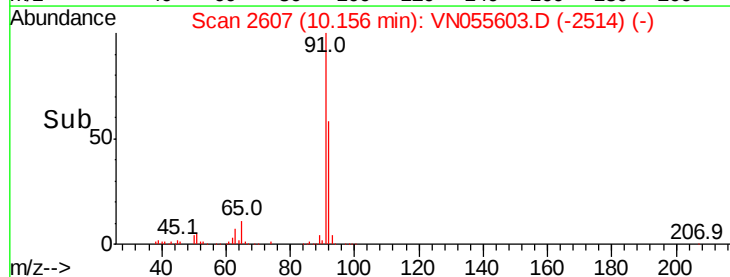
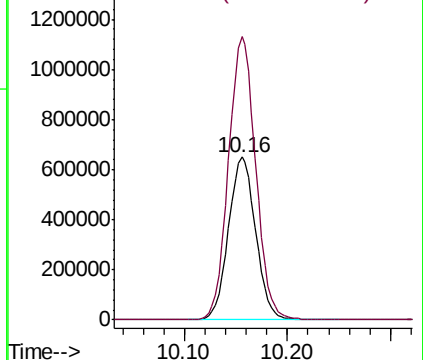
92 100

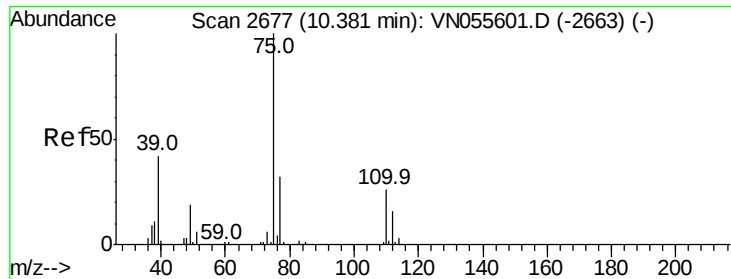
91 173.7 138.9 208.3



Abundance Ion 92.00 (91.70 to 92.70): VN0

Ion 91.00 (90.70 to 91.70): VN0





#53

t-1,3-Dichloropropene

Concen: 181.226 ug/l

RT: 10.38 min Scan# 2677

Delta R.T. 0.00 min

Lab File: VN055603.D

Acq: 17 May 2019 11:26

Instrument :

MSVOA_N

ClientSampleId :

VSTDIC150

Tot Ion: 75 Resp: 777311

Ion Ratio Lower Upper

75 100

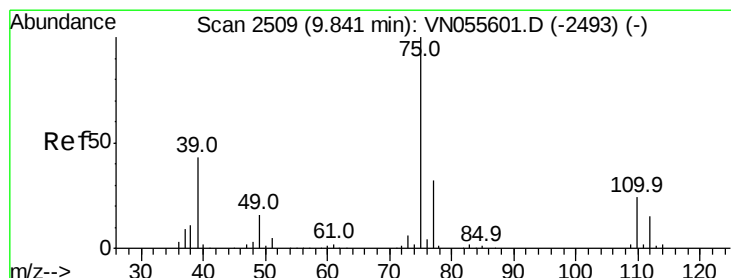
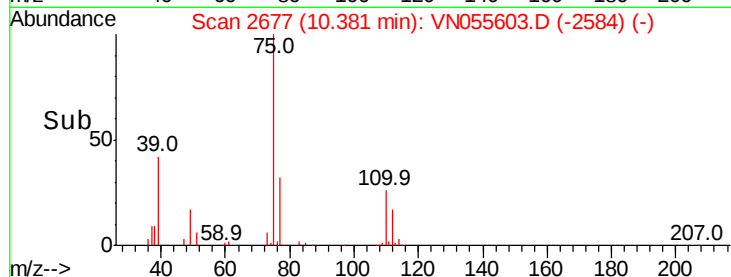
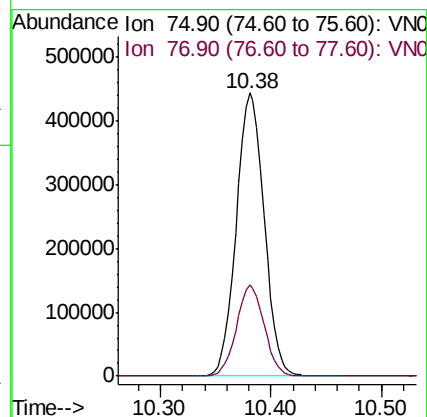
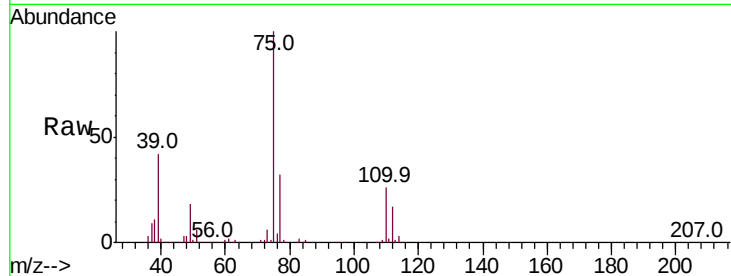
77 32.0 25.4 38.2

Manual Integrations

APPROVED

MMDadoda

5/20/2019 9:10:16 AM



#54

cis-1,3-Dichloropropene

Concen: 167.208 ug/l

RT: 9.84 min Scan# 2509

Delta R.T. 0.00 min

Lab File: VN055603.D

Acq: 17 May 2019 11:26

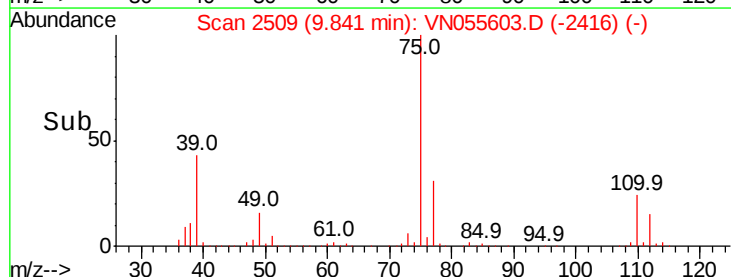
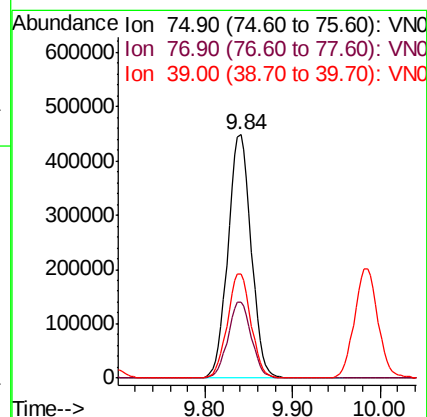
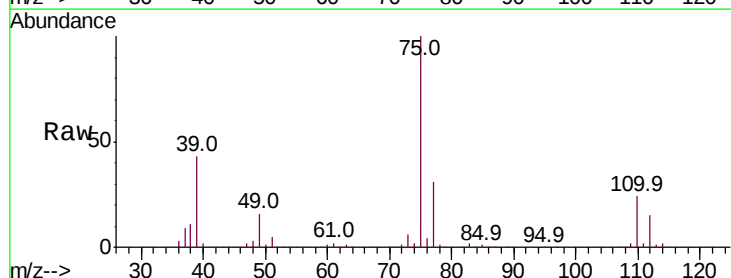
Tgt Ion: 75 Resp: 827172

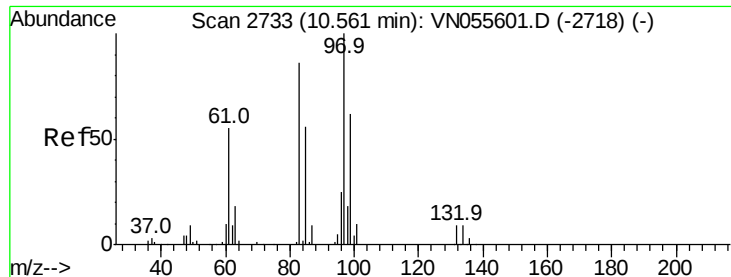
Ion Ratio Lower Upper

75 100

77 31.3 25.7 38.5

39 42.9 34.7 52.1





#55

1,1,2-Trichloroethane

Concen: 162.643 ug/l

RT: 10.56 min Scan# 2733

Delta R.T. -0.00 min

Lab File: VN055603.D

Acq: 17 May 2019 11:26

Instrument :

MSVOA_N

ClientSampled :

VSTDIC150

Tot Ion: 97 Resp: 474241

Ion Ratio Lower Upper

97 100

83 85.8 68.4 102.6

85 56.4 44.8 67.2

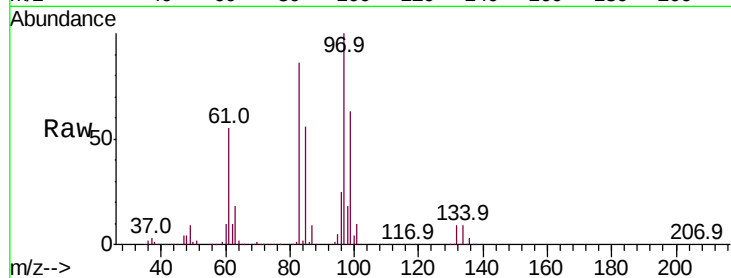
99 63.1 49.9 74.9

Manual Integrations

APPROVED

MMDadoda

5/20/2019 9:10:16 AM

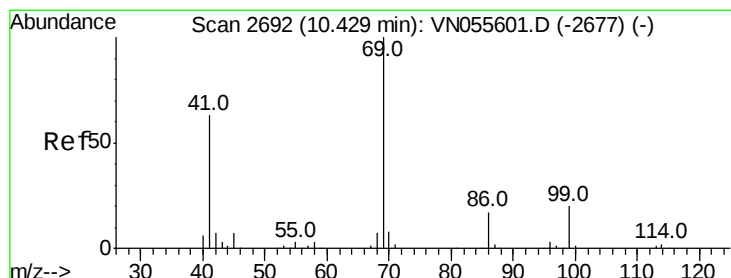
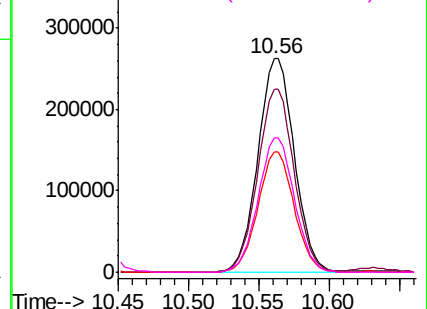
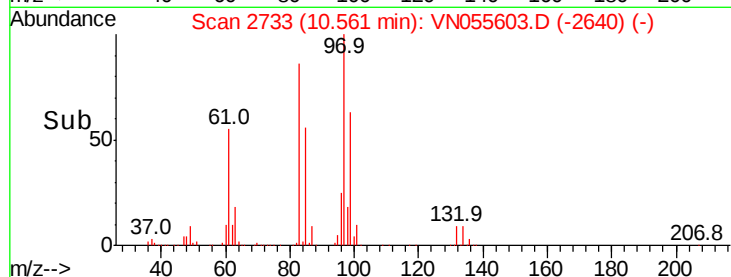


Abundance Ion 96.90 (96.60 to 97.60): VN055603.D (-2640) (-)

Ion 82.90 (82.60 to 83.60): VN055603.D (-2640) (-)

Ion 84.90 (84.60 to 85.60): VN055603.D (-2640) (-)

Ion 98.90 (98.60 to 99.60): VN055603.D (-2640) (-)



#56

Ethyl methacrylate

Concen: 224.382 ug/l

RT: 10.43 min Scan# 2692

Delta R.T. 0.00 min

Lab File: VN055603.D

Acq: 17 May 2019 11:26

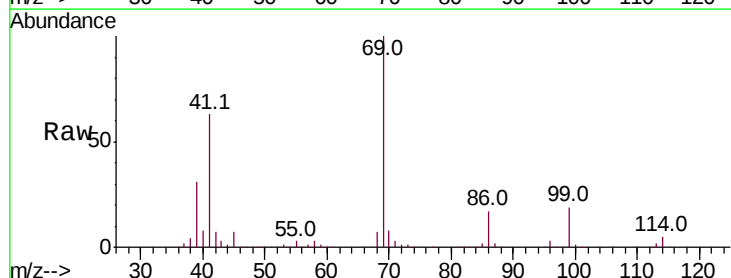
Tgt Ion: 69 Resp: 782324

Ion Ratio Lower Upper

69 100

41 63.0 50.3 75.5

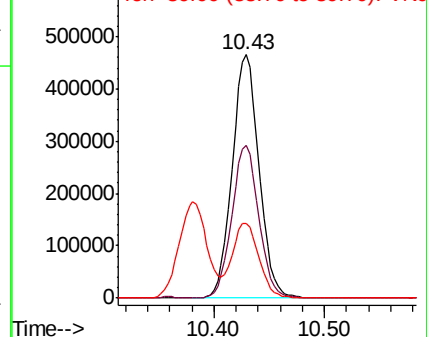
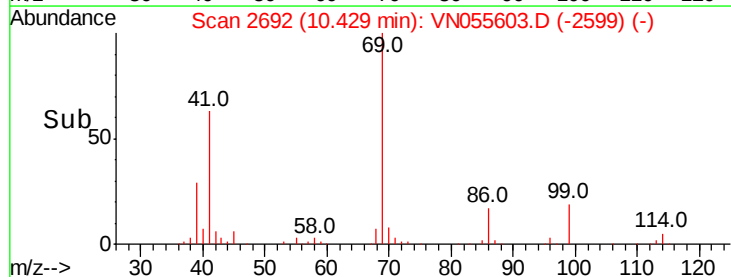
39 30.8 25.4 38.2

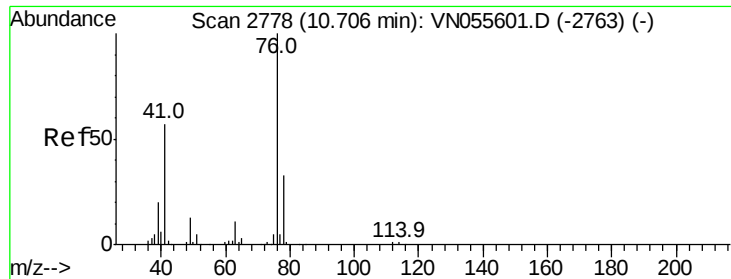


Abundance Ion 69.00 (68.70 to 69.70): VN055603.D (-2599) (-)

Ion 41.00 (40.70 to 41.70): VN055603.D (-2599) (-)

Ion 39.00 (38.70 to 39.70): VN055603.D (-2599) (-)





#57

1,3-Dichloropropane

Concen: 163.601 ug/l

RT: 10.71 min Scan# 2778

Delta R.T. 0.00 min

Lab File: VN055603.D

Acq: 17 May 2019 11:26

Instrument :

MSVOA_N

ClientSampled :

VSTDIC150

Tot Ion: 76 Resp: 790124

Ion Ratio Lower Upper

76 100

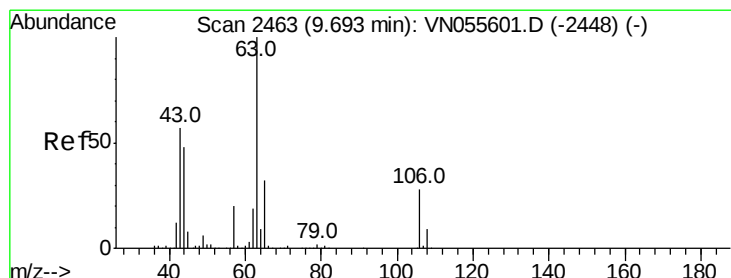
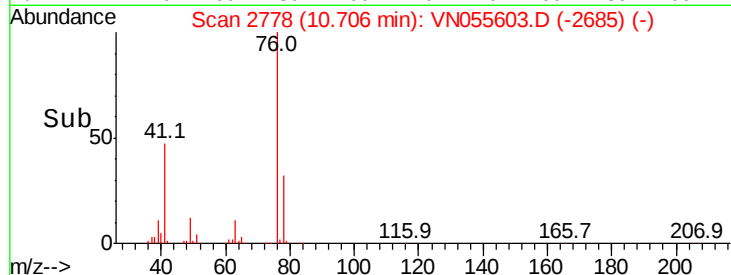
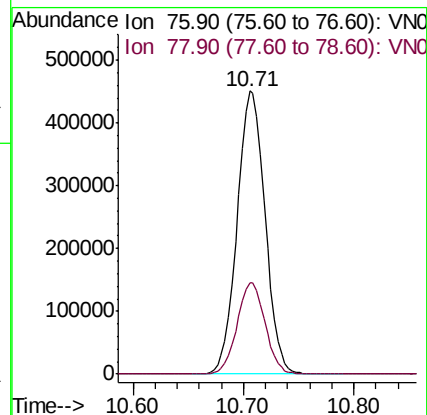
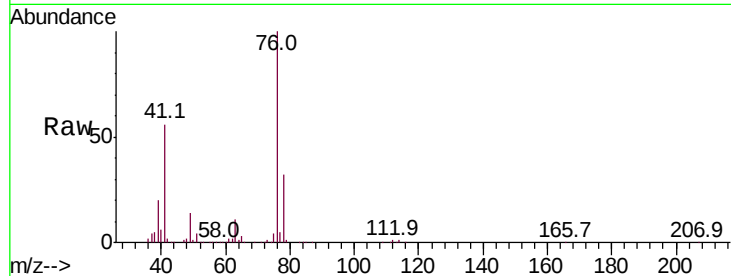
78 32.5 26.5 39.7

Manual Integrations

APPROVED

MMDadoda

5/20/2019 9:10:16 AM



#58

2-Chloroethyl Vinyl ether

Concen: 1160.600 ug/l

RT: 9.70 min Scan# 2464

Delta R.T. 0.00 min

Lab File: VN055603.D

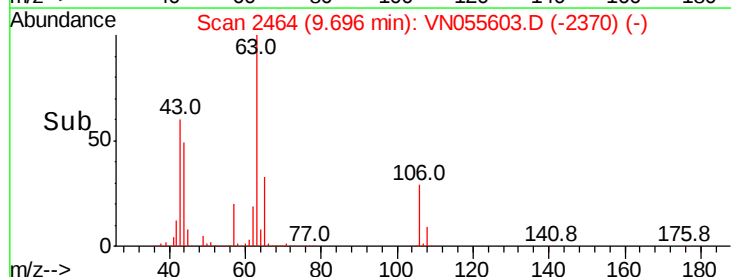
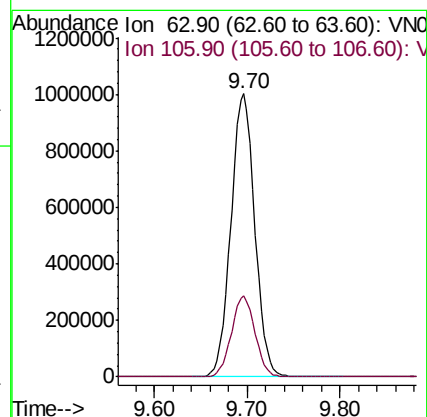
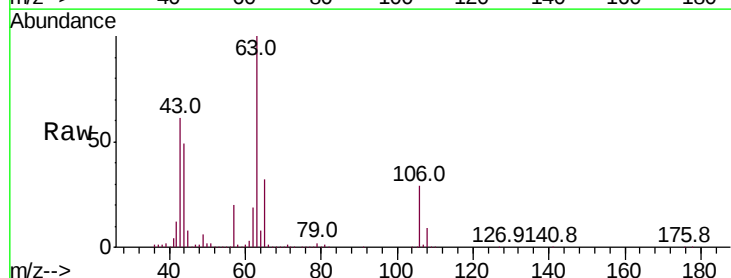
Acq: 17 May 2019 11:26

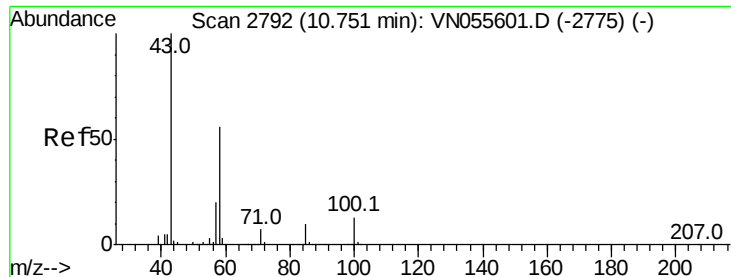
Tgt Ion: 63 Resp: 1781960

Ion Ratio Lower Upper

63 100

106 28.5 23.0 34.6





#59

2-Hexanone

Concen: 1342.043 ug/l

RT: 10.75 min Scan# 2792

Delta R.T. -0.00 min

Lab File: VN055603.D

Acq: 17 May 2019 11:26

Instrument :

MSVOA_N

ClientSampleId :

VSTDIC150

Tot Ion: 43 Resp: 2287176

Ion Ratio Lower Upper

43 100

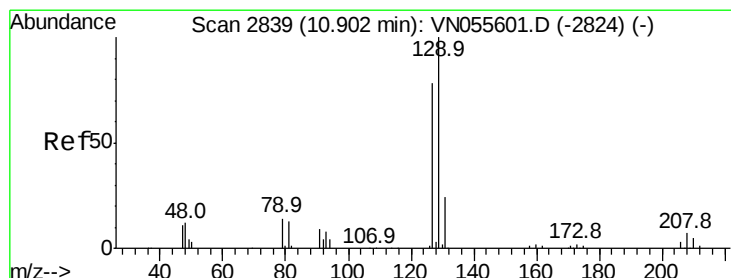
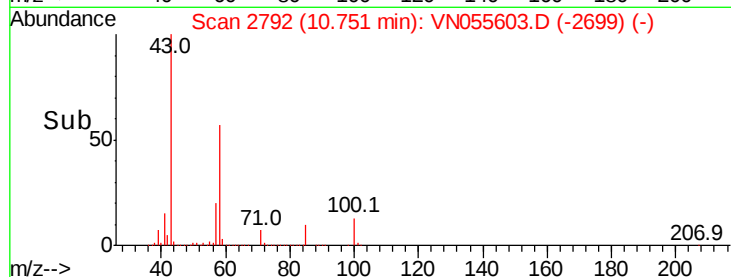
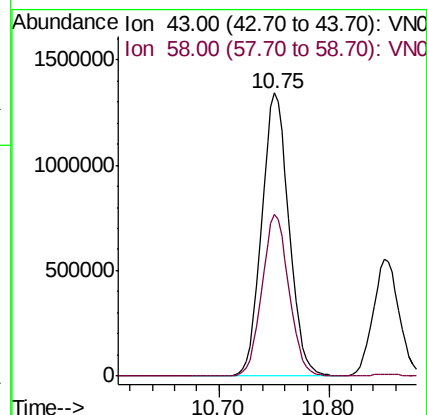
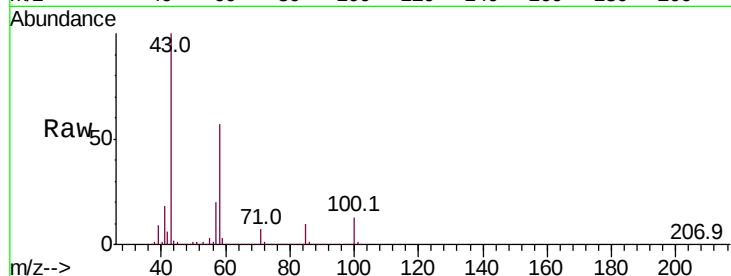
58 56.8 28.1 84.4

Manual Integrations

APPROVED

MMDadoda

5/20/2019 9:10:16 AM



#60

Dibromochloromethane

Concen: 168.506 ug/l

RT: 10.90 min Scan# 2839

Delta R.T. 0.00 min

Lab File: VN055603.D

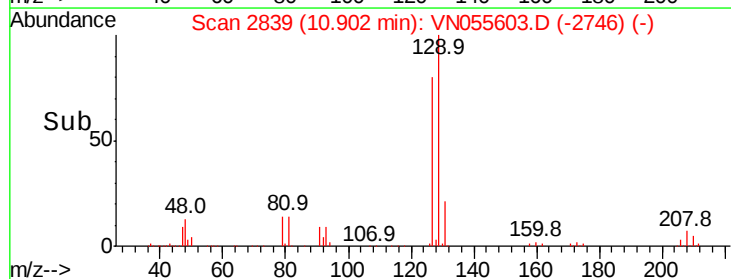
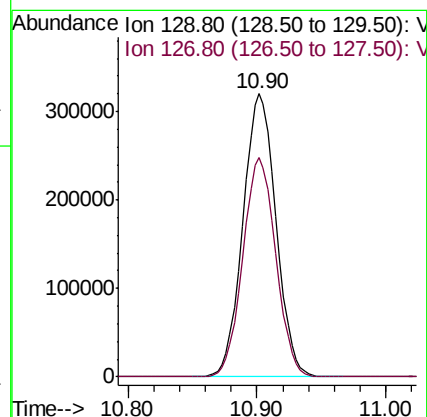
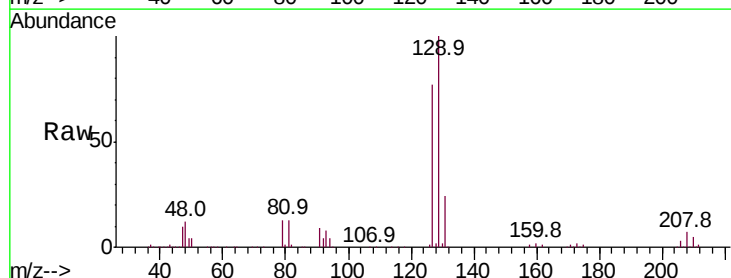
Acq: 17 May 2019 11:26

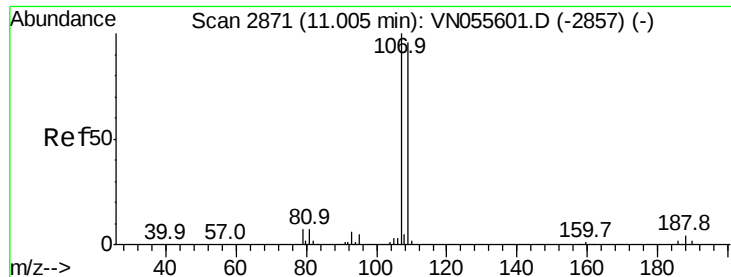
Tgt Ion: 129 Resp: 569427

Ion Ratio Lower Upper

129 100

127 77.4 38.6 115.8





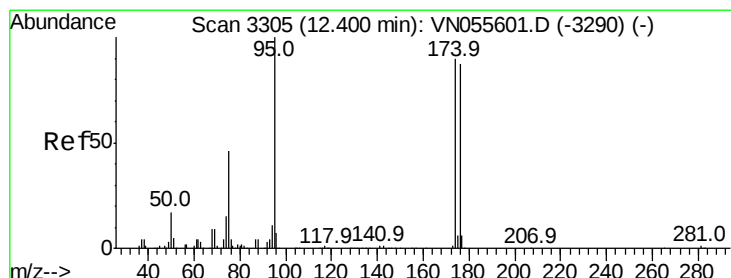
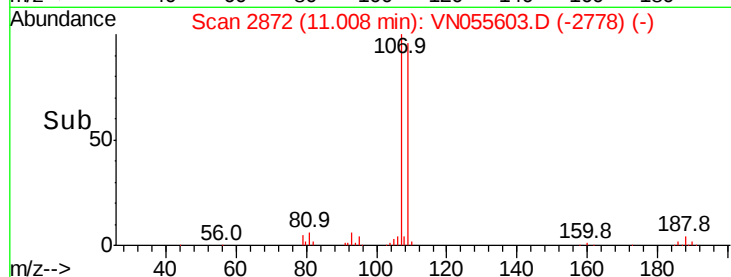
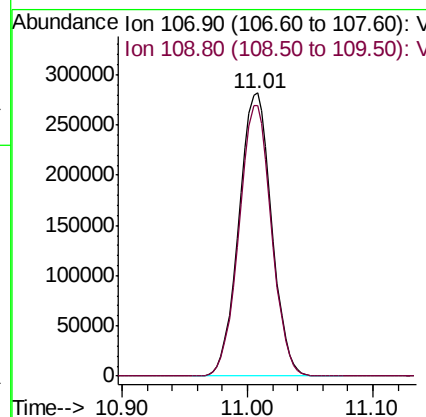
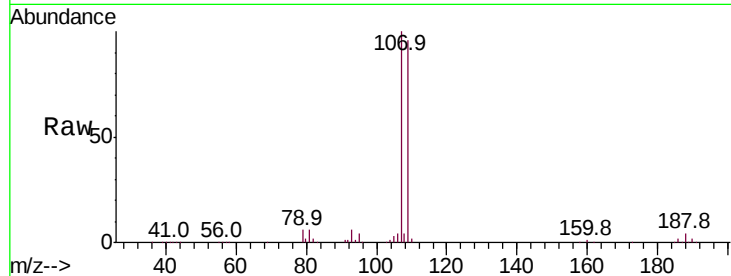
#61
 1,2-Dibromoethane
 Concen: 175.882 ug/l
 RT: 11.01 min Scan# 2872
 Delta R.T. 0.00 min
 Lab File: VN055603.D
 Acq: 17 May 2019 11:26

Instrument :
 MSVOA_N
 ClientSampleId :
 VSTDIC150

Tot Ion	Ratio	Lower	Upper
107	100		
109	94.7	75.6	113.4

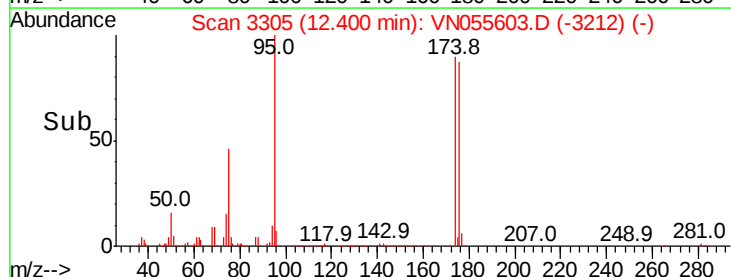
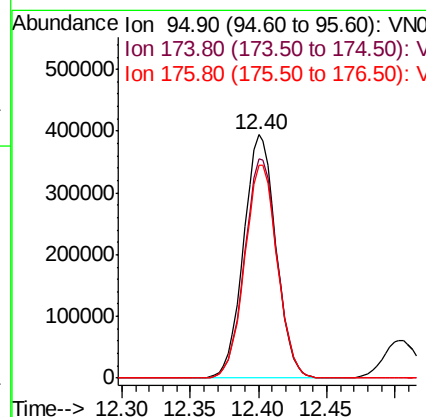
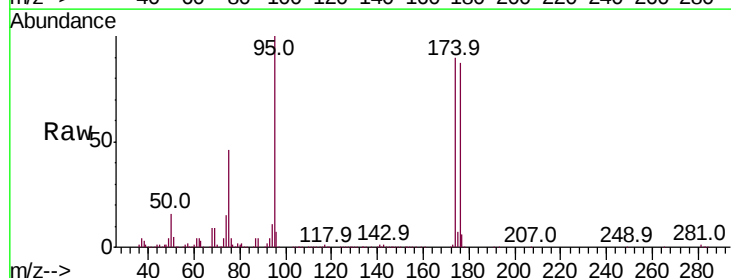
Manual Integrations
 APPROVED

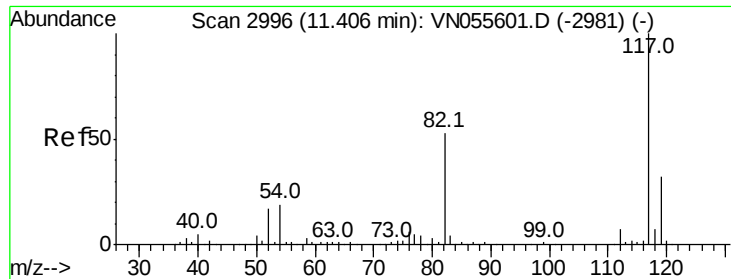
MMDadoda
 5/20/2019 9:10:16 AM



#62
 4-Bromofluorobenzene
 Concen: 169.311 ug/l
 RT: 12.40 min Scan# 3305
 Delta R.T. 0.00 min
 Lab File: VN055603.D
 Acq: 17 May 2019 11:26

Tgt Ion	Ratio	Lower	Upper
95	100		
174	90.5	0.0	180.6
176	87.9	0.0	177.4





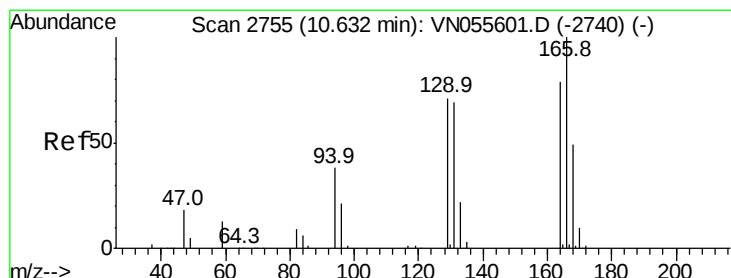
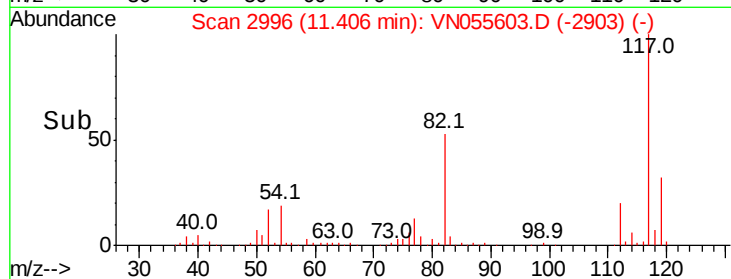
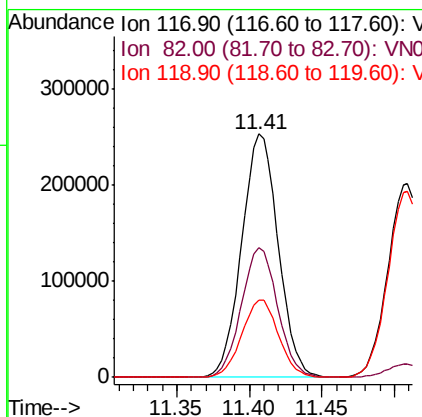
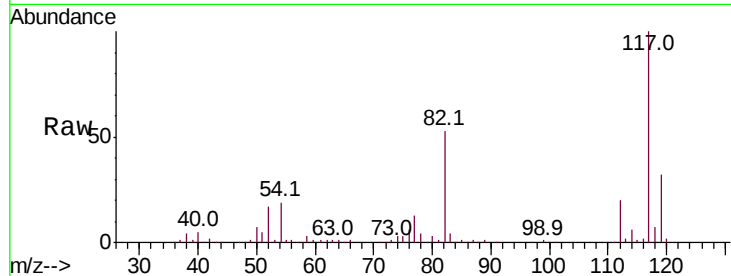
#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.41 min Scan# 2996
Delta R.T. 0.00 min
Lab File: VN055603.D
Acq: 17 May 2019 11:26

Instrument :
MSVOA_N
ClientSampleId :
VSTDIC150

Tot Ion	Ratio	Lower	Upper
117	100		
82	53.1	42.3	63.5
119	31.8	25.4	38.2

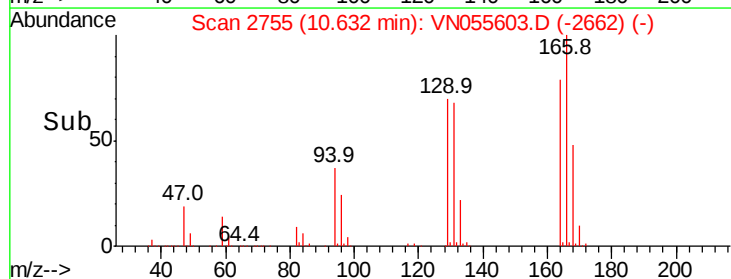
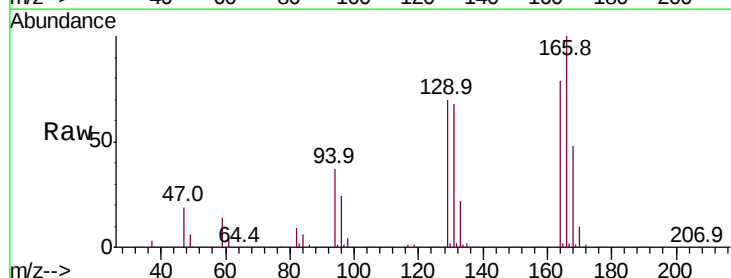
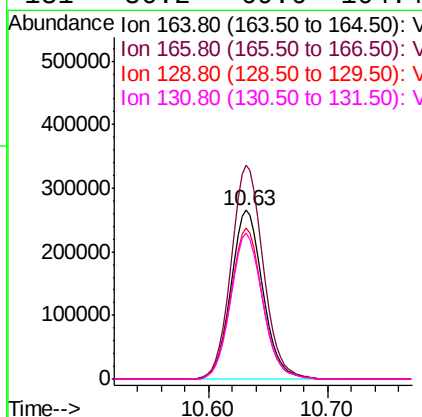
Manual Integrations
APPROVED

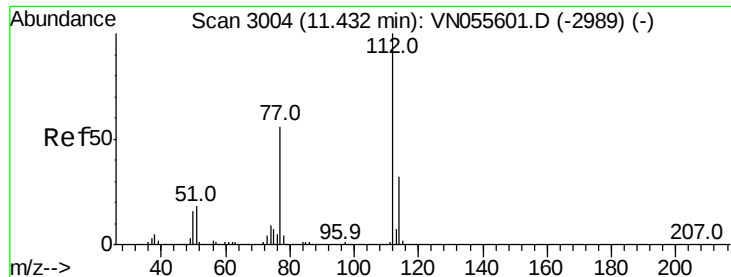
MMDadoda
5/20/2019 9:10:16 AM



#64
Tetrachloroethene
Concen: 125.798 ug/l
RT: 10.63 min Scan# 2755
Delta R.T. -0.00 min
Lab File: VN055603.D
Acq: 17 May 2019 11:26

Tgt Ion	Ratio	Lower	Upper
164	100		
166	126.6	101.0	151.6
129	89.2	71.7	107.5
131	86.2	69.6	104.4





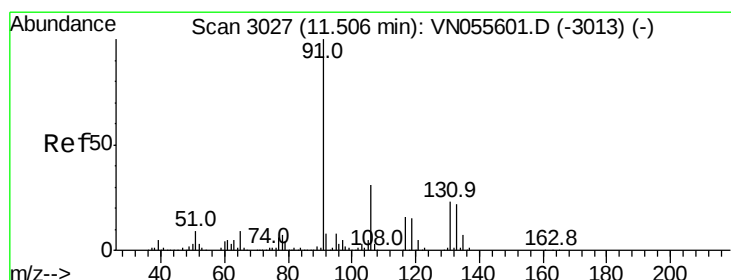
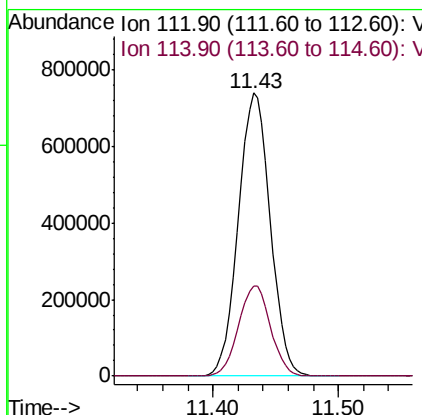
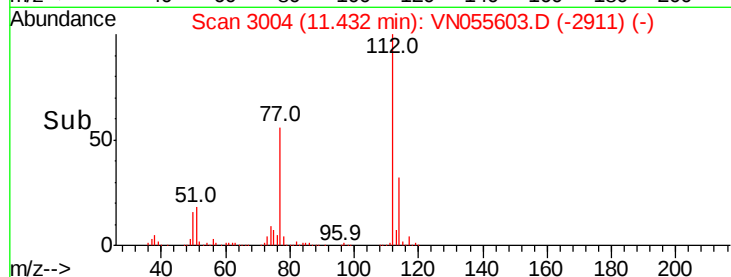
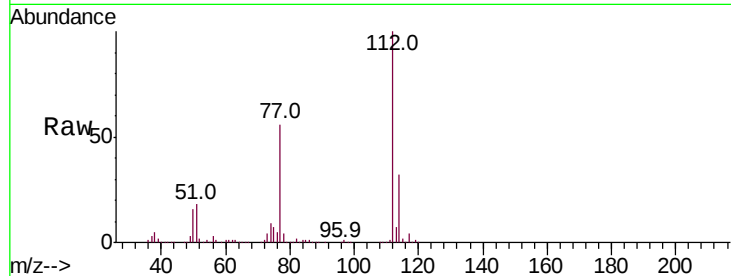
#65
Chlorobenzene
Concen: 140.963 ug/l
RT: 11.43 min Scan# 3004
Delta R.T. -0.00 min
Lab File: VN055603.D
Acq: 17 May 2019 11:26

Instrument :
MSVOA_N
ClientSampleId :
VSTDIC150

Tot Ion:112 Resp: 1307524
Ion Ratio Lower Upper
112 100
114 31.9 25.6 38.4

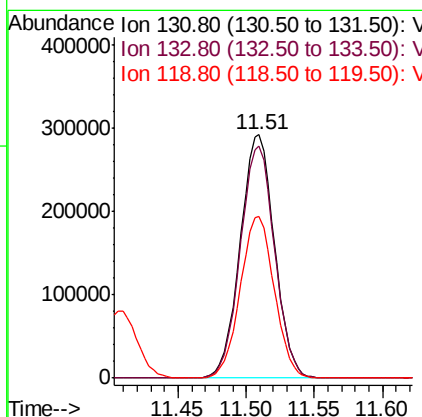
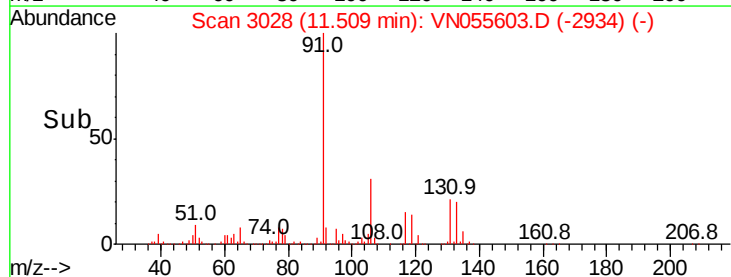
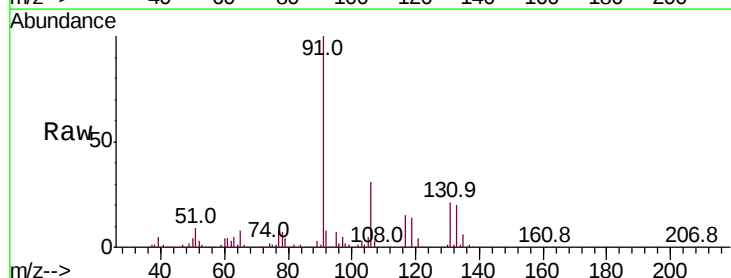
Manual Integrations
APPROVED

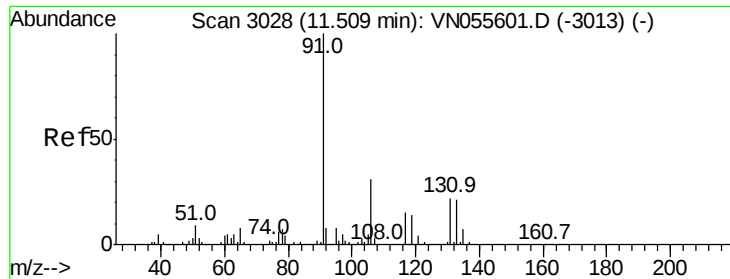
MMDadoda
5/20/2019 9:10:16 AM



#66
1,1,1,2-Tetrachloroethane
Concen: 148.852 ug/l
RT: 11.51 min Scan# 3028
Delta R.T. 0.00 min
Lab File: VN055603.D
Acq: 17 May 2019 11:26

Tgt Ion:131 Resp: 508450
Ion Ratio Lower Upper
131 100
133 95.8 47.8 143.4
119 66.2 33.3 99.8





#67

Ethyl Benzene

Concen: 152.740 ug/l

RT: 11.51 min Scan# 3028

Delta R.T. -0.00 min

Lab File: VN055603.D

Acq: 17 May 2019 11:26

Instrument :

MSVOA_N

ClientSampleId :

VSTDIC150

Tot Ion: 91 Resp: 2310296

Ion Ratio Lower Upper

91 100

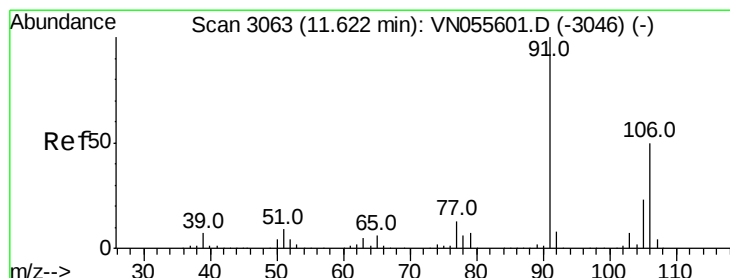
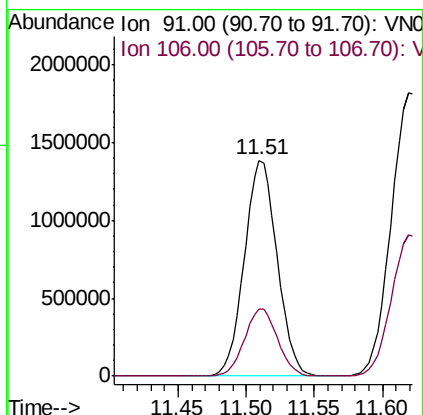
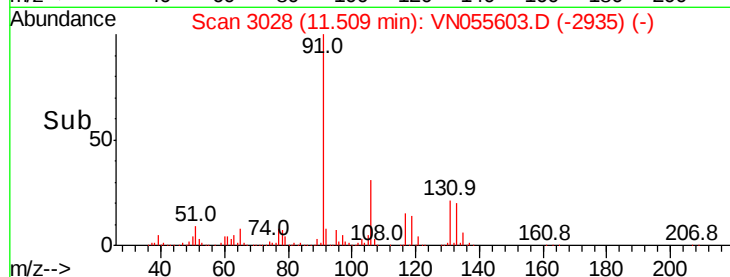
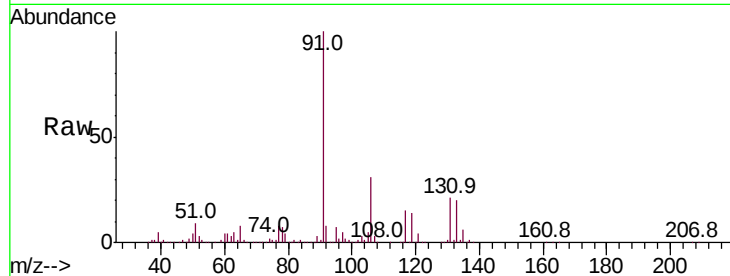
106 31.4 25.2 37.8

Manual Integrations

APPROVED

MMDadoda

5/20/2019 9:10:16 AM



#68

m/p-Xylenes

Concen: 303.369 ug/l

RT: 11.62 min Scan# 3062

Delta R.T. -0.00 min

Lab File: VN055603.D

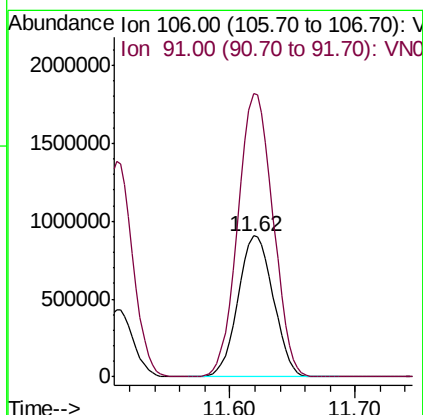
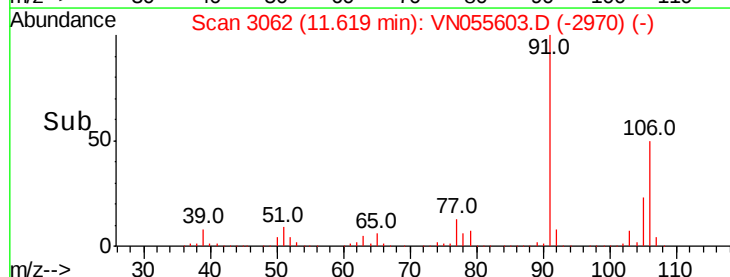
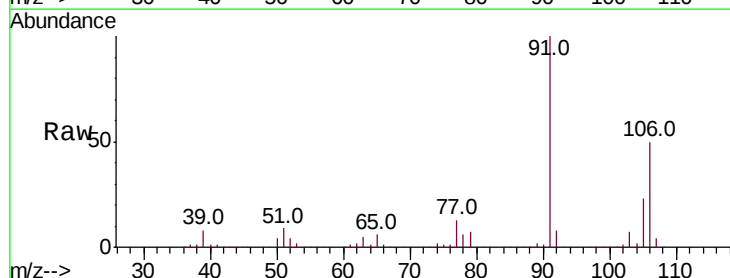
Acq: 17 May 2019 11:26

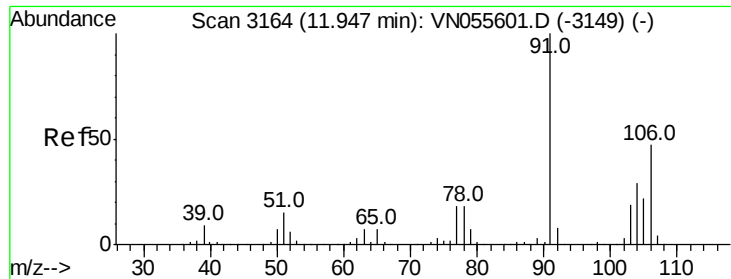
Tgt Ion: 106 Resp: 1765164

Ion Ratio Lower Upper

106 100

91 200.7 160.5 240.7





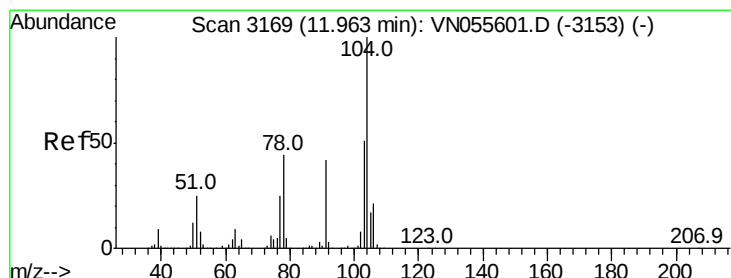
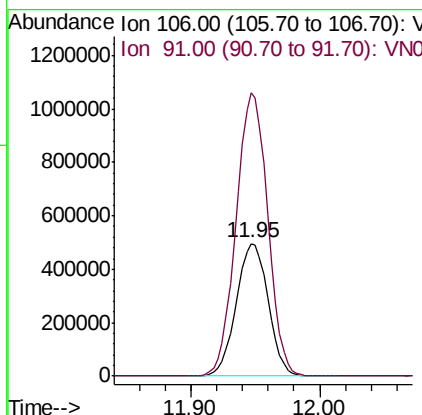
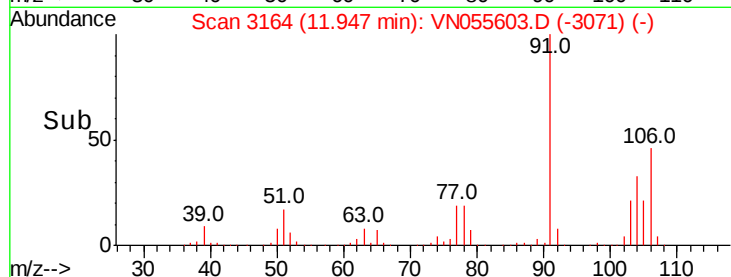
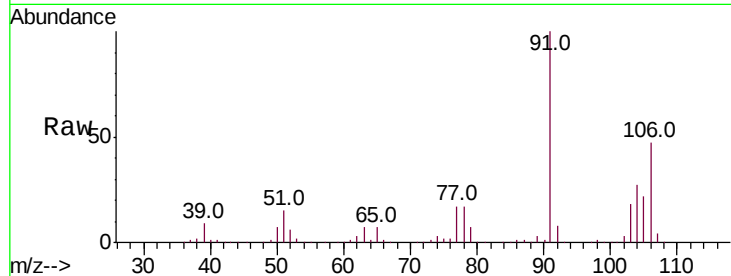
#69
o-Xylene
Concen: 151.687 ug/l
RT: 11.95 min Scan# 3164
Delta R.T. -0.00 min
Lab File: VN055603.D
Acq: 17 May 2019 11:26

Instrument :
MSVOA_N
ClientSampleId :
VSTDIC150

Tot Ion:106 Resp: 851438
Ion Ratio Lower Upper
106 100
91 211.8 106.7 320.2

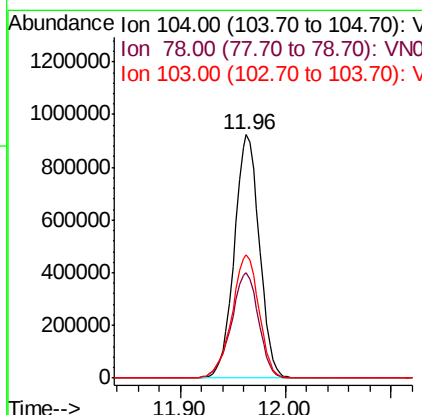
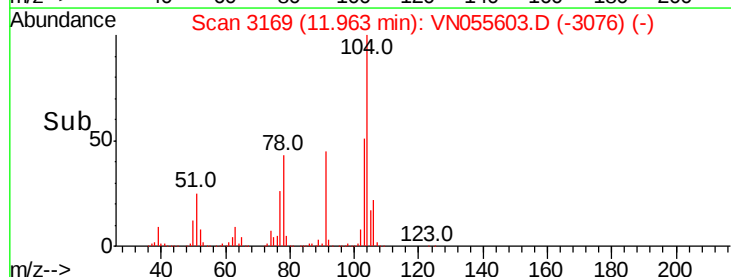
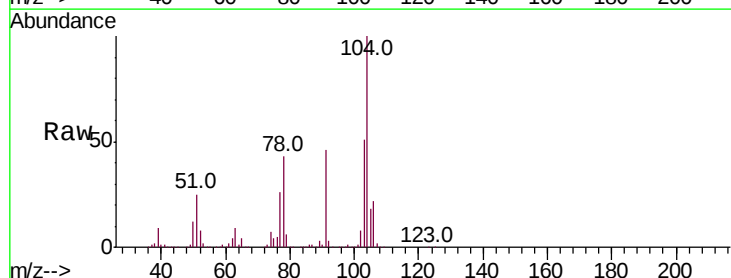
Manual Integrations
APPROVED

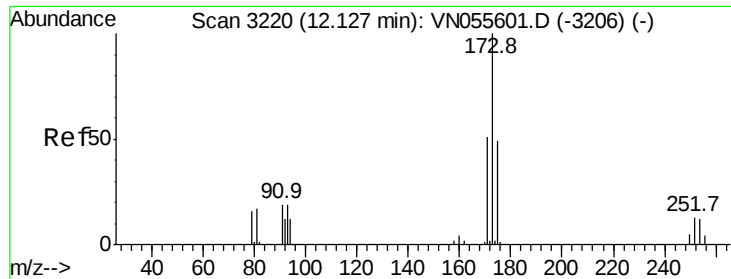
MMDadoda
5/20/2019 9:10:16 AM



#70
Styrene
Concen: 170.425 ug/l
RT: 11.96 min Scan# 3169
Delta R.T. 0.00 min
Lab File: VN055603.D
Acq: 17 May 2019 11:26

Tgt Ion:104 Resp: 1515321
Ion Ratio Lower Upper
104 100
78 47.3 38.6 58.0
103 54.6 44.4 66.6





#71

Bromoform

Concen: 185.711 ug/l

RT: 12.13 min Scan# 3220

Delta R.T. -0.00 min

Lab File: VN055603.D

Acq: 17 May 2019 11:26

Instrument :

MSVOA_N

ClientSampleId :

VSTDIC150

Tot Ion:173 Resp: 468453

Ion Ratio Lower Upper

173 100

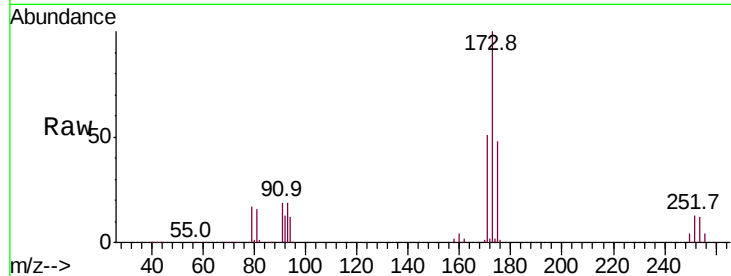
175 48.5 24.3 72.9

254 0.2 0.1 0.1#

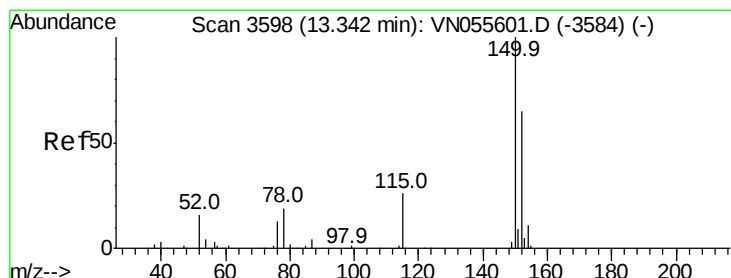
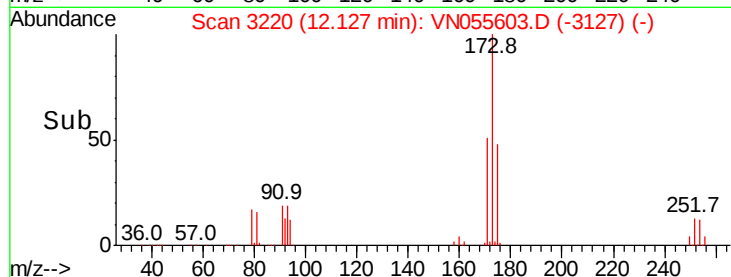
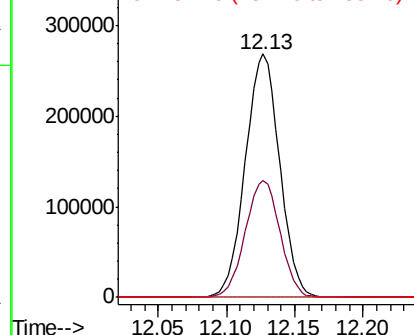
Manual Integrations
APPROVED

MMDadoda

5/20/2019 9:10:16 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: 13.34 min Scan# 3598

Delta R.T. 0.00 min

Lab File: VN055603.D

Acq: 17 May 2019 11:26

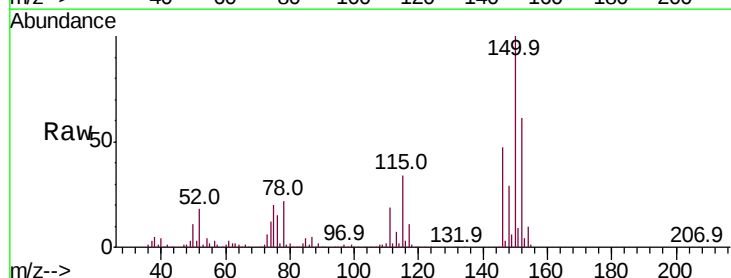
Tgt Ion:152 Resp: 219872

Ion Ratio Lower Upper

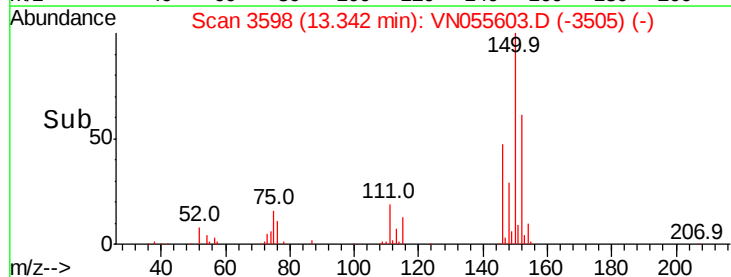
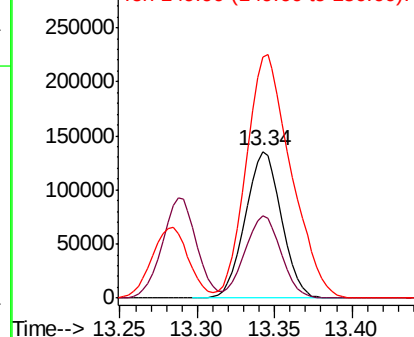
152 100

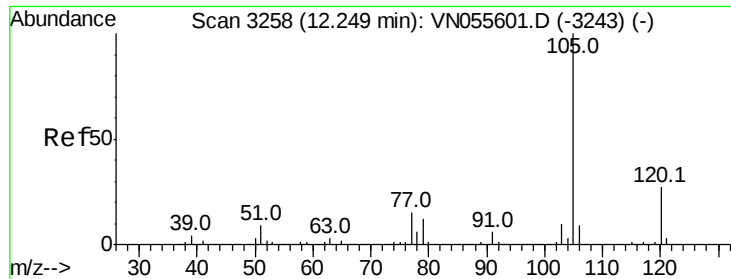
115 55.9 28.1 84.2

150 205.7 0.0 348.0



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





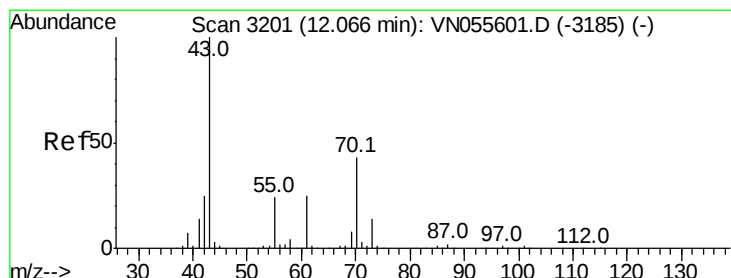
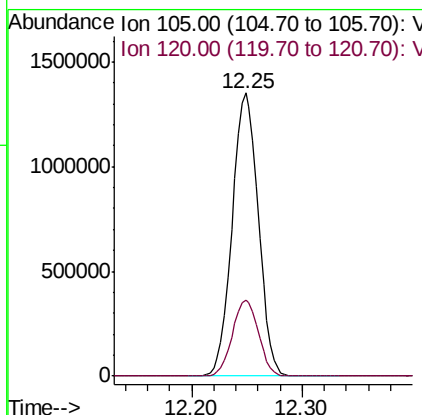
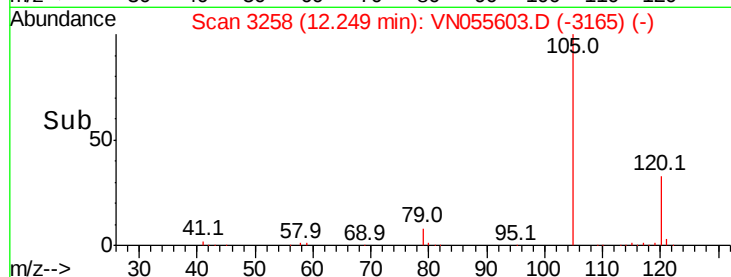
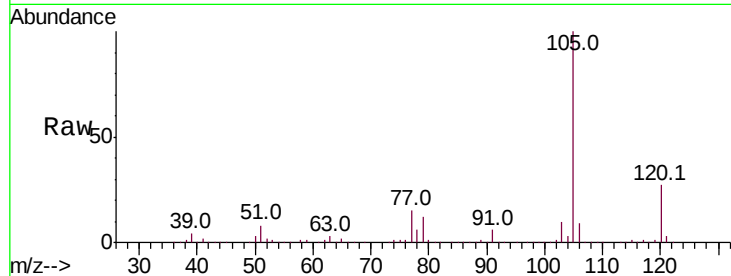
#73
Isopropylbenzene
Concen: 142.611 ug/l
RT: 12.25 min Scan# 3258
Delta R.T. -0.00 min
Lab File: VN055603.D
Acq: 17 May 2019 11:26

Instrument :
MSVOA_N
ClientSampleId :
VSTDIC150

Tot Ion:105 Resp: 2221336
Ion Ratio Lower Upper
105 100
120 26.9 13.4 40.2

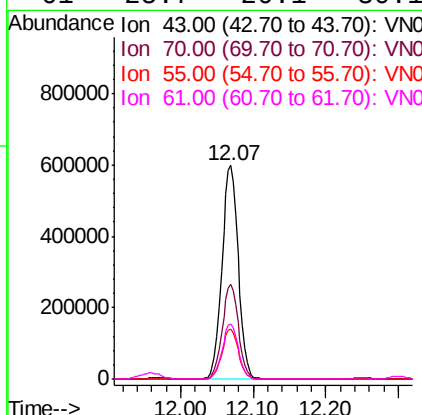
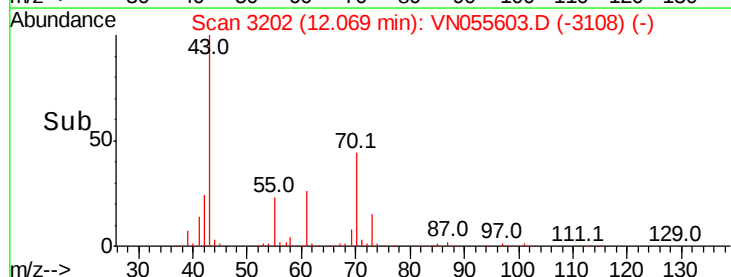
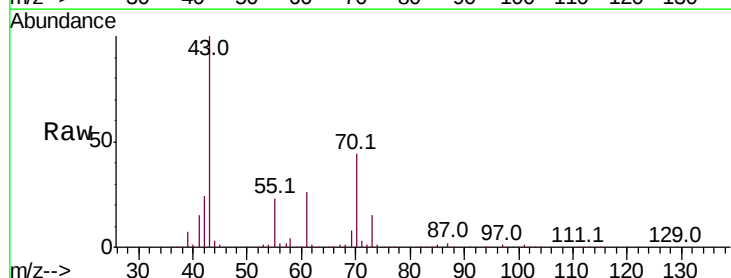
Manual Integrations
APPROVED

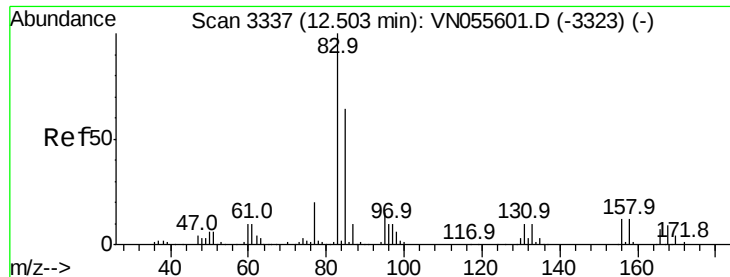
MMDadoda
5/20/2019 9:10:16 AM



#74
N-ethyl acetate
Concen: 231.900 ug/l
RT: 12.07 min Scan# 3202
Delta R.T. 0.00 min
Lab File: VN055603.D
Acq: 17 May 2019 11:26

Tgt Ion: 43 Resp: 922119
Ion Ratio Lower Upper
43 100
70 44.0 35.0 52.6
55 23.3 18.9 28.3
61 25.7 20.1 30.1





#75

1,1,2,2-Tetrachloroethane

Concen: 180.074 ug/l

RT: 12.50 min Scan# 3337

Delta R.T. 0.00 min

Lab File: VN055603.D

Acq: 17 May 2019 11:26

Instrument :

MSVOA_N

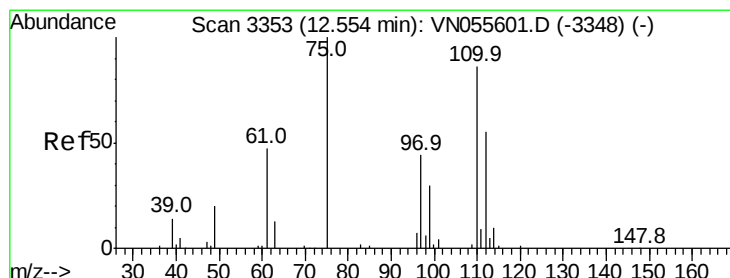
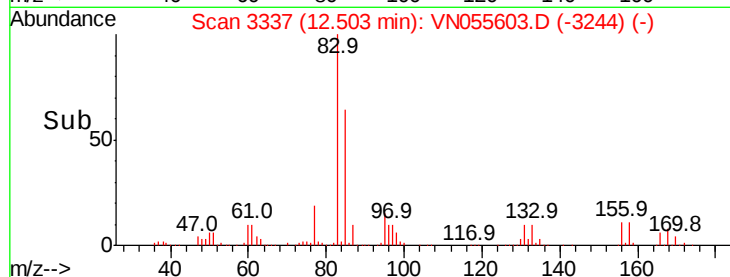
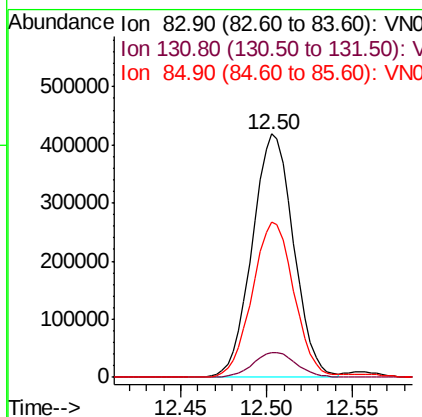
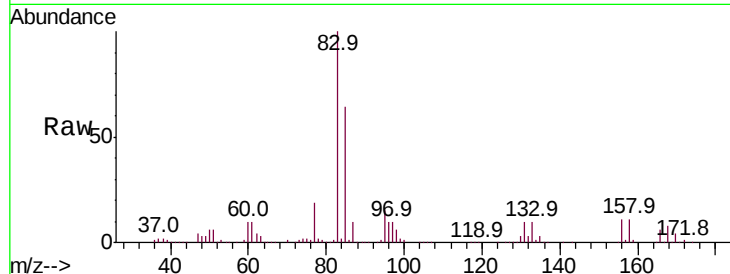
ClientSampleId :

VSTDIC150

Tot Ion:	83	Resp:	700397
Ion Ratio	Lower	Upper	
83	100		
131	10.7	5.3	16.1
85	64.2	32.0	96.2

Manual Integrations
APPROVED

MMDadoda
5/20/2019 9:10:16 AM



#76

1,2,3-Trichloropropane

Concen: 186.748 ug/l m

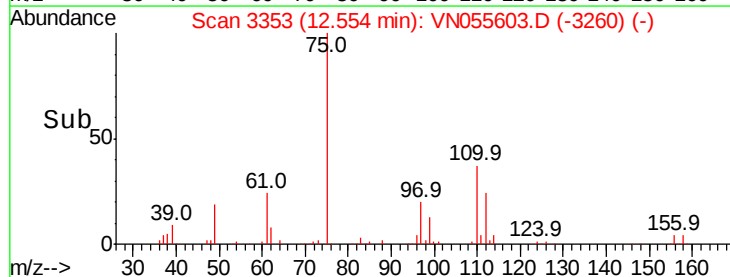
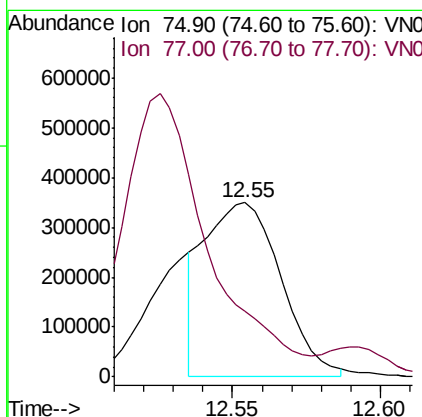
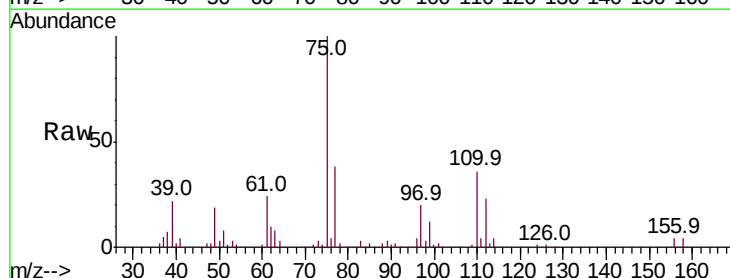
RT: 12.55 min Scan# 3353

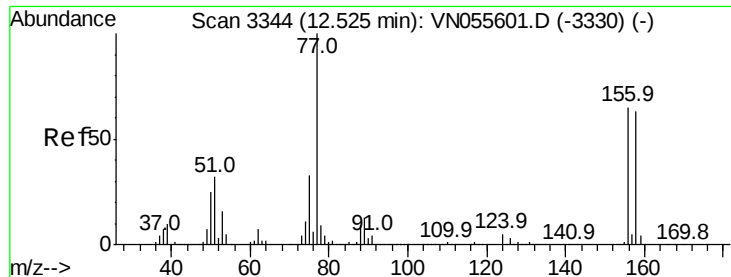
Delta R.T. 0.00 min

Lab File: VN055603.D

Acq: 17 May 2019 11:26

Tgt Ion:	75	Resp:	630858
Ion Ratio	Lower	Upper	
75	100		
77	0.0	0.0	0.0





#77

Bromobenzene

Concen: 146.747 ug/l

RT: 12.53 min Scan# 3344

Delta R.T. -0.00 min

Lab File: VN055603.D

Acq: 17 May 2019 11:26

Instrument :

MSVOA_N

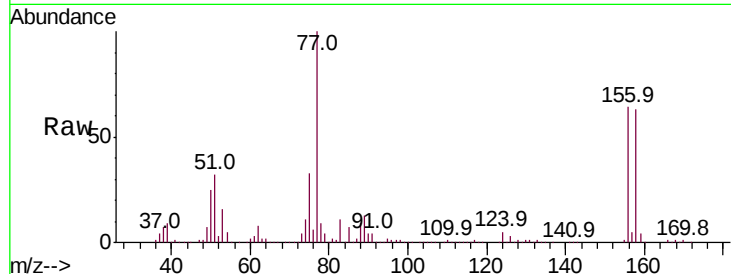
ClientSampleId :

VSTDIC150

Tot Ion:	156	Resp:	610895
Ion Ratio	Lower	Upper	
156	100		
77	188.8	94.5	283.5
158	97.6	49.0	147.2

Manual Integrations
APPROVED

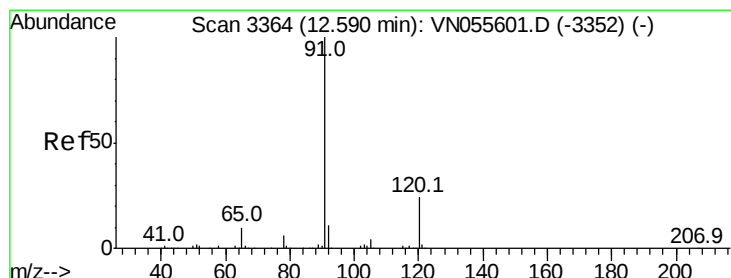
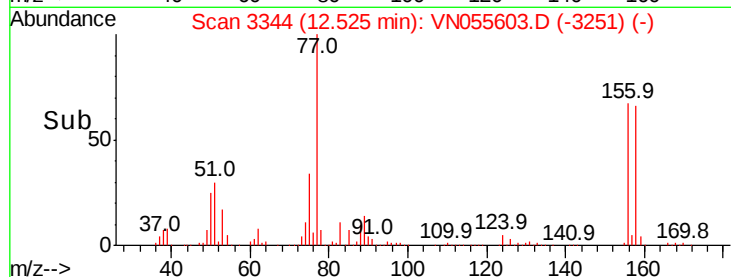
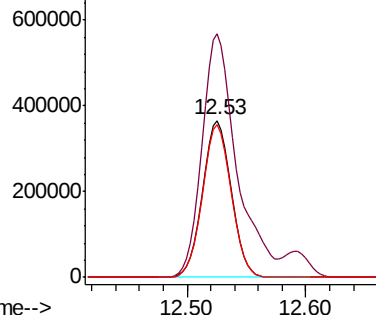
MMDadoda
5/20/2019 9:10:16 AM



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: 147.551 ug/l

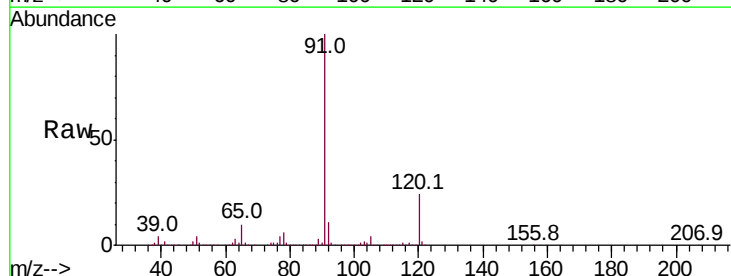
RT: 12.59 min Scan# 3364

Delta R.T. 0.00 min

Lab File: VN055603.D

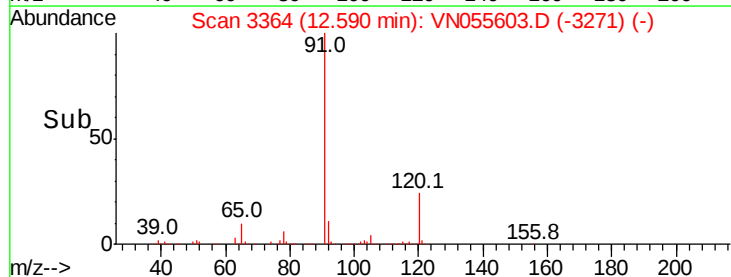
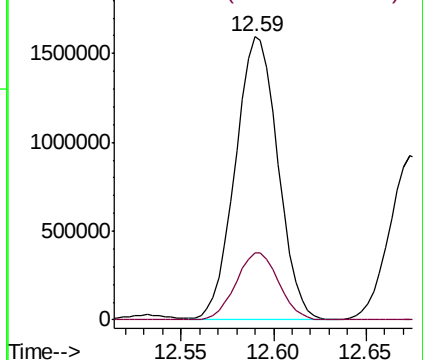
Acq: 17 May 2019 11:26

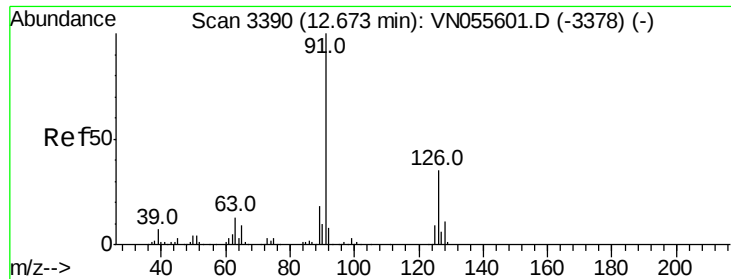
Tgt Ion:	91	Resp:	2557245
Ion Ratio	Lower	Upper	
91	100		
120	23.8	11.9	35.5



Abundance Ion 91.00 (90.70 to 91.70): VN0

Ion 120.00 (119.70 to 120.70): V





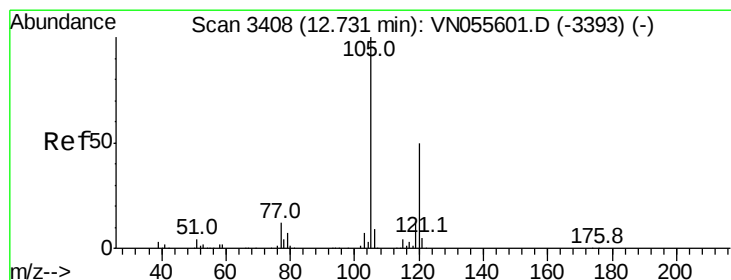
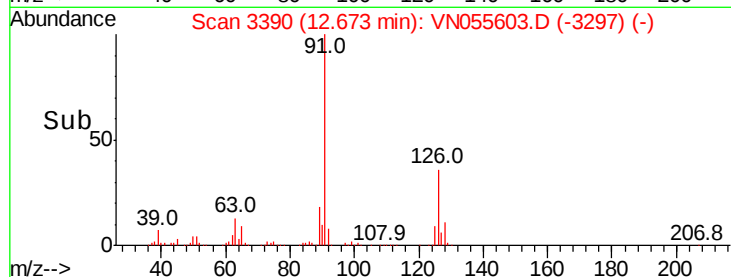
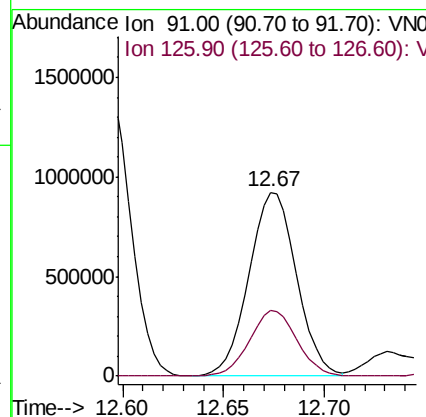
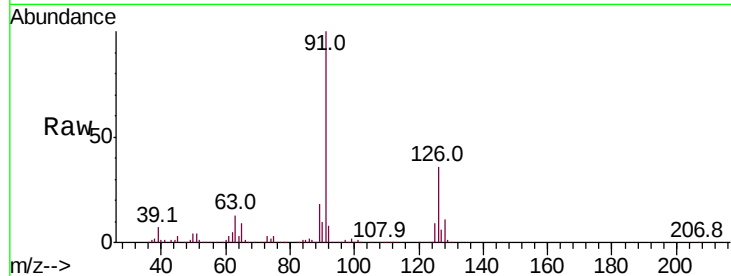
#79
2-Chlorotoluene
Concen: 145.615 ug/l
RT: 12.67 min Scan# 3390
Delta R.T. 0.00 min
Lab File: VN055603.D
Acq: 17 May 2019 11:26

Instrument :
MSVOA_N
ClientSampleId :
VSTDIC150

Tot Ion: 91 Resp: 1525529
Ion Ratio Lower Upper
91 100
126 35.5 17.8 53.4

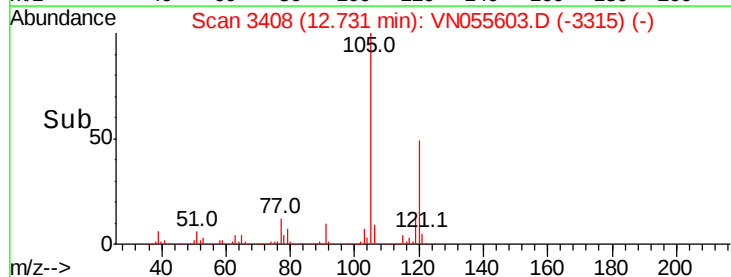
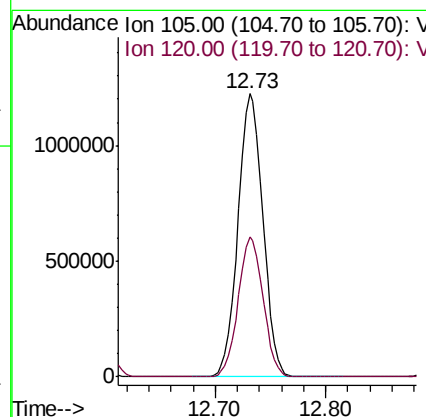
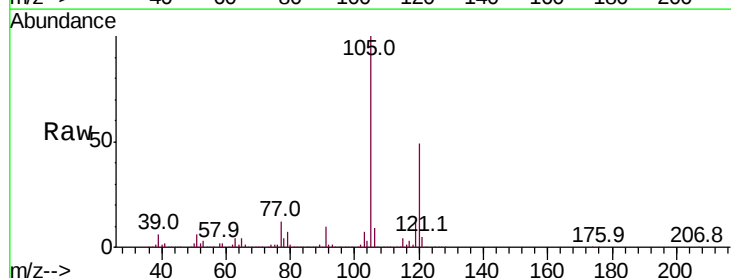
Manual Integrations
APPROVED

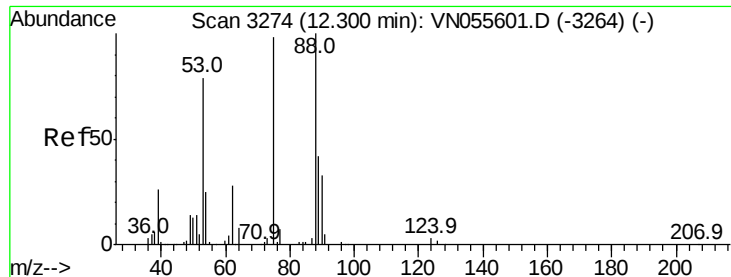
MMDadoda
5/20/2019 9:10:16 AM



#80
1,3,5-Trimethylbenzene
Concen: 147.877 ug/l
RT: 12.73 min Scan# 3408
Delta R.T. -0.00 min
Lab File: VN055603.D
Acq: 17 May 2019 11:26

Tgt Ion:105 Resp: 1910032
Ion Ratio Lower Upper
105 100
120 49.6 24.6 74.0





#81

trans-1,4-Dichloro-2-butene

Concen: 234.551 ug/l

RT: 12.30 min Scan# 3274

Delta R.T. -0.00 min

Lab File: VN055603.D

Acq: 17 May 2019 11:26

Instrument :

MSVOA_N

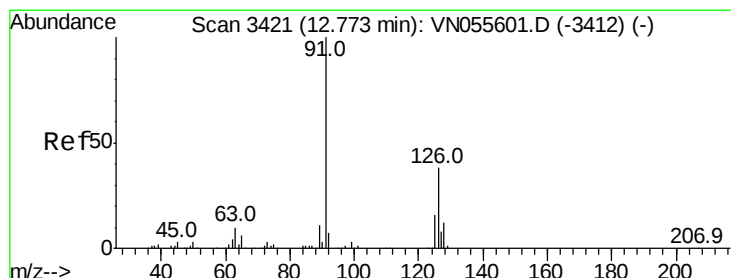
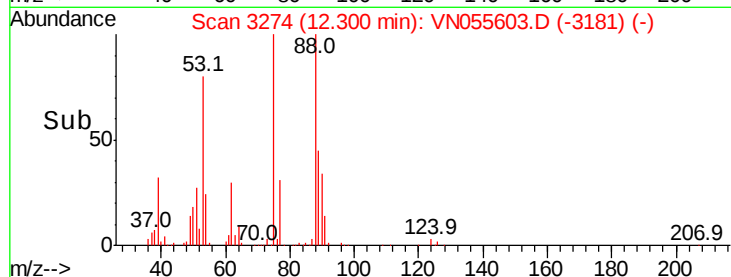
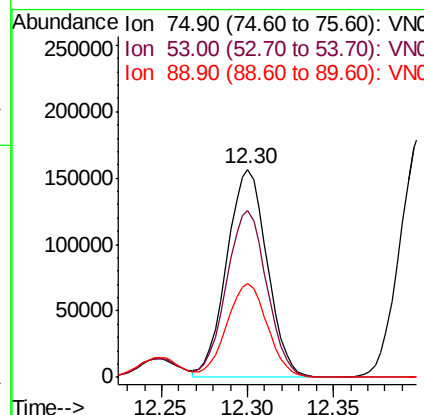
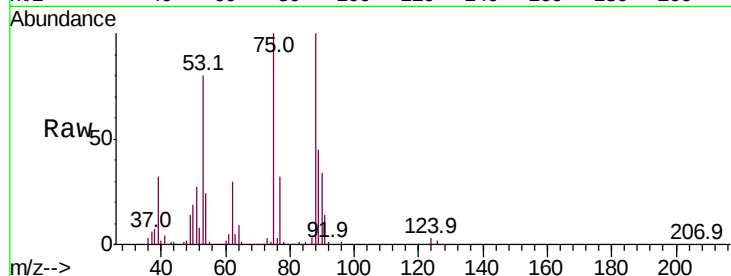
ClientSampleId :

VSTDIC150

Tot Ion:	75	Resp:	256461
Ion	Ratio	Lower	Upper
75	100		
53	80.8	65.1	97.7
89	45.5	36.4	54.6

Manual Integrations
APPROVED

MMDadoda
5/20/2019 9:10:16 AM



#82

4-Chlorotoluene

Concen: 150.335 ug/l

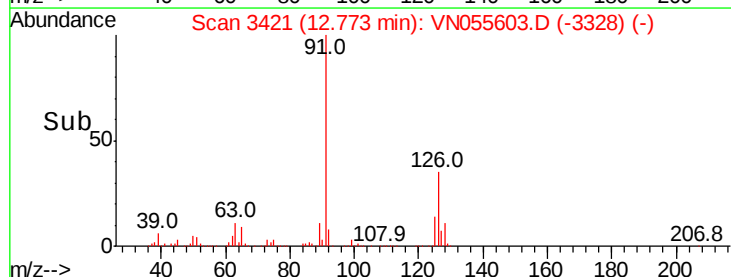
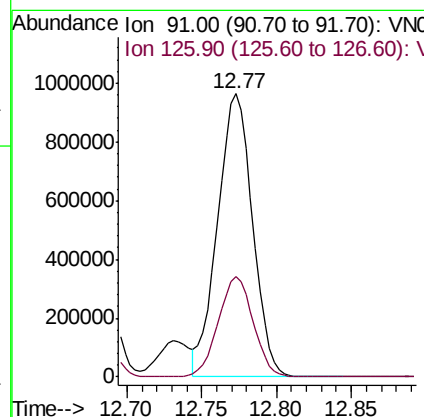
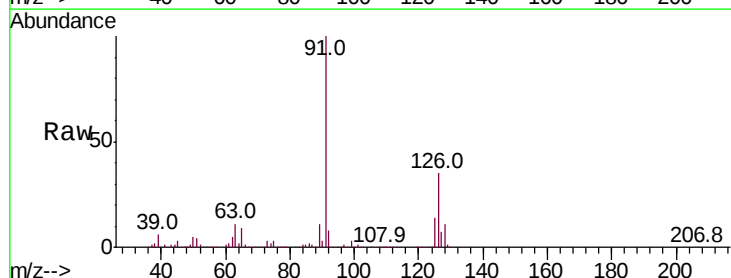
RT: 12.77 min Scan# 3421

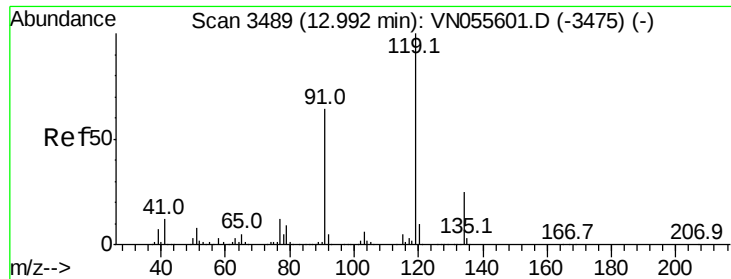
Delta R.T. -0.00 min

Lab File: VN055603.D

Acq: 17 May 2019 11:26

Tgt Ion:	91	Resp:	1566746
Ion	Ratio	Lower	Upper
91	100		
126	35.3	17.5	52.6





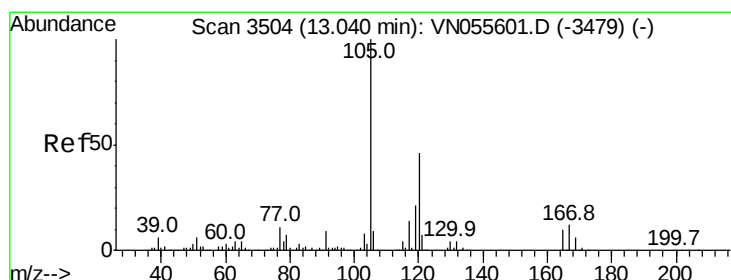
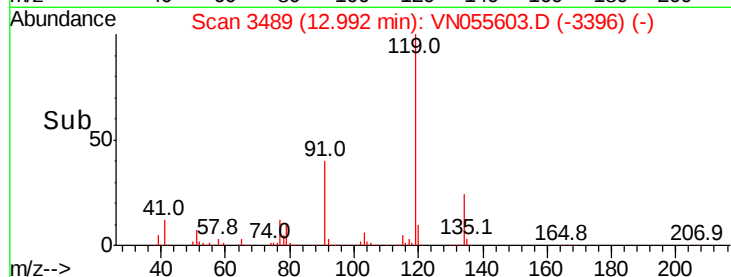
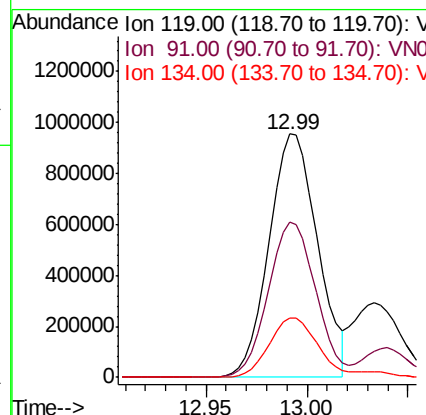
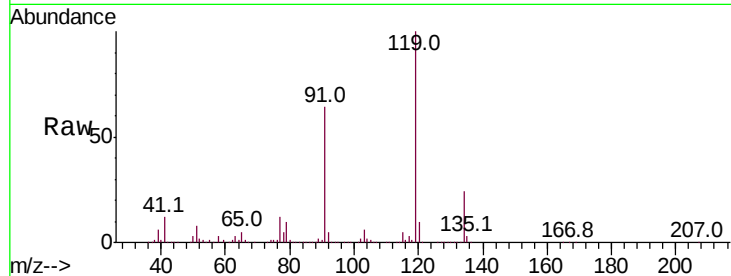
#83
tert-Butylbenzene
Concen: 138.525 ug/l
RT: 12.99 min Scan# 3489
Delta R.T. -0.00 min
Lab File: VN055603.D
Acq: 17 May 2019 11:26

Instrument :
MSVOA_N
ClientSampleId :
VSTDIC150

Tot Ion	Ratio	Lower	Upper
119	100		
91	62.3	31.3	93.8
134	26.1	13.2	39.6

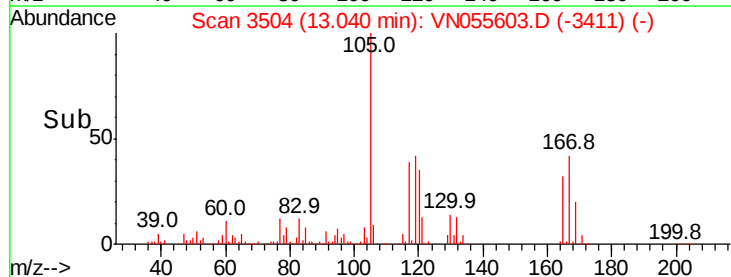
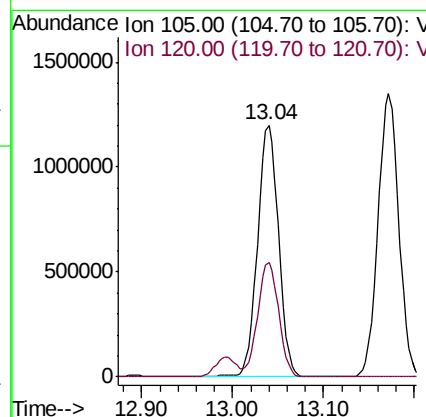
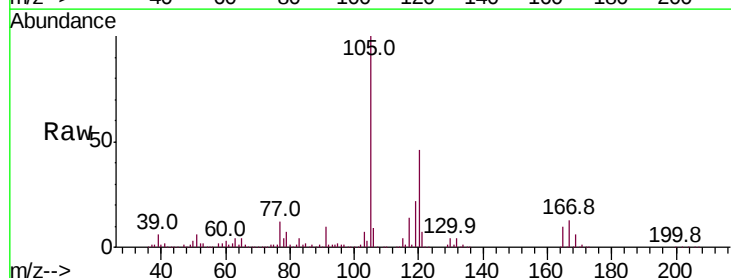
Manual Integrations
APPROVED

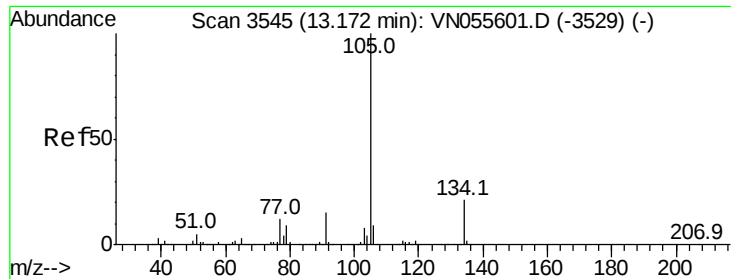
MMDadoda
5/20/2019 9:10:16 AM



#84
1,2,4-Trimethylbenzene
Concen: 148.852 ug/l
RT: 13.04 min Scan# 3504
Delta R.T. -0.00 min
Lab File: VN055603.D
Acq: 17 May 2019 11:26

Tgt Ion	Ratio	Lower	Upper
105	100		
120	45.6	23.1	69.2





#85

sec-Butylbenzene

Concen: 137.512 ug/l

RT: 13.17 min Scan# 3545

Delta R.T. 0.00 min

Lab File: VN055603.D

Acq: 17 May 2019 11:26

Instrument :

MSVOA_N

ClientSampleId :

VSTDIC150

Tot Ion:105 Resp: 2125878

Ion Ratio Lower Upper

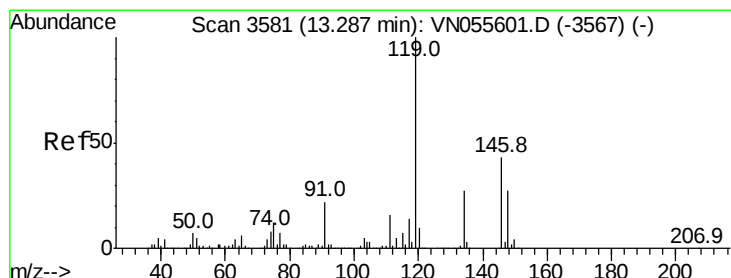
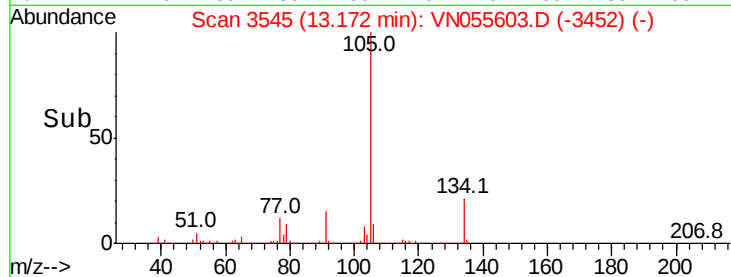
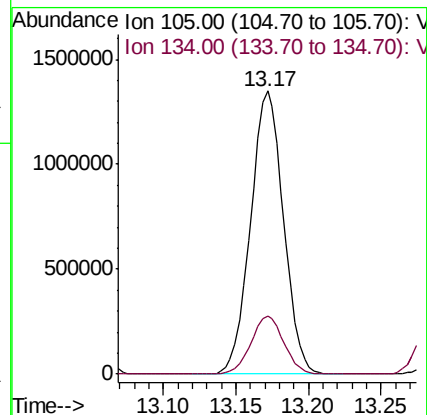
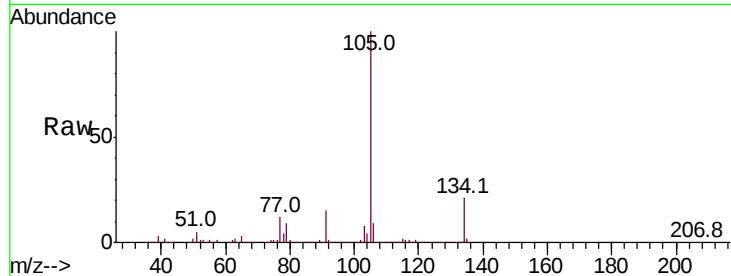
105 100

134 20.6 10.3 30.9

Manual Integrations
APPROVED

MMDadoda

5/20/2019 9:10:16 AM



#86

p-Isopropyltoluene

Concen: 147.403 ug/l

RT: 13.29 min Scan# 3581

Delta R.T. 0.00 min

Lab File: VN055603.D

Acq: 17 May 2019 11:26

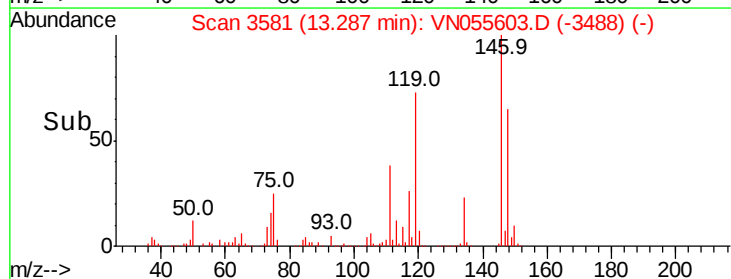
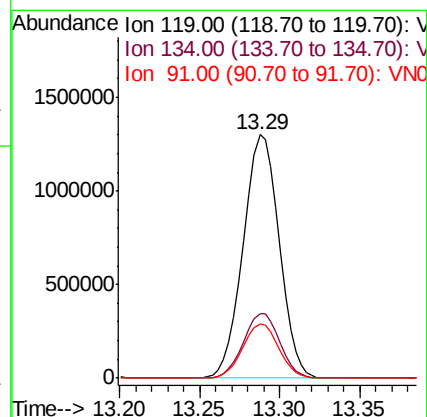
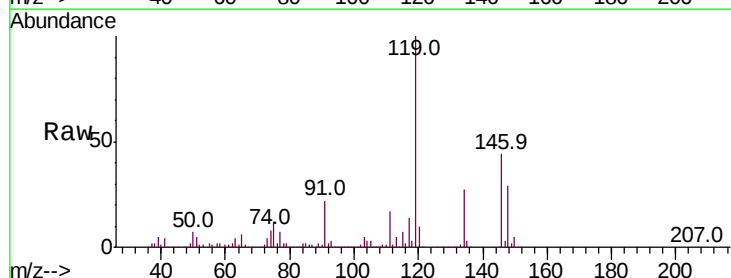
Tgt Ion:119 Resp: 1991326

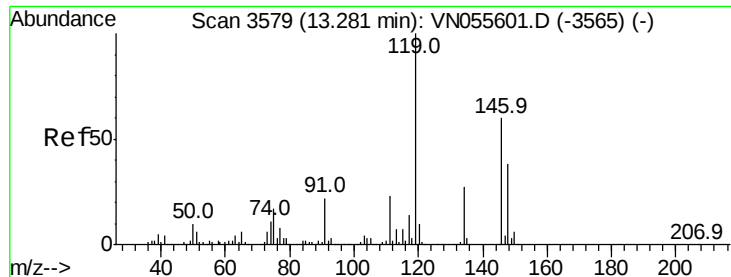
Ion Ratio Lower Upper

119 100

134 26.8 13.4 40.2

91 22.2 11.0 33.0





#87

1,3-Dichlorobenzene

Concen: 145.335 ug/l

RT: 13.28 min Scan# 3579

Delta R.T. -0.00 min

Lab File: VN055603.D

Acq: 17 May 2019 11:26

Instrument :

MSVOA_N

ClientSampleId :

VSTDIC150

Tot Ion:146 Resp: 1052269

Ion Ratio Lower Upper

146 100

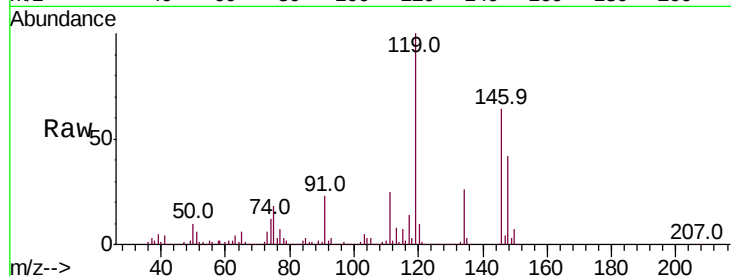
111 38.3 18.9 56.9

148 64.5 31.9 95.9

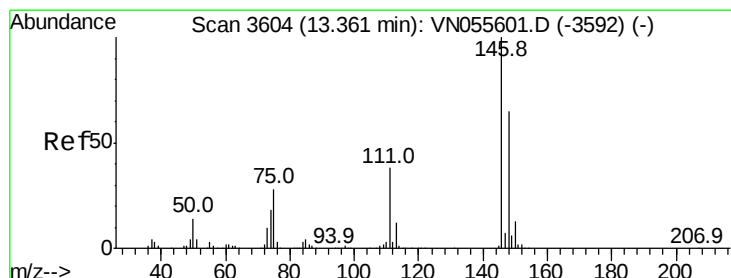
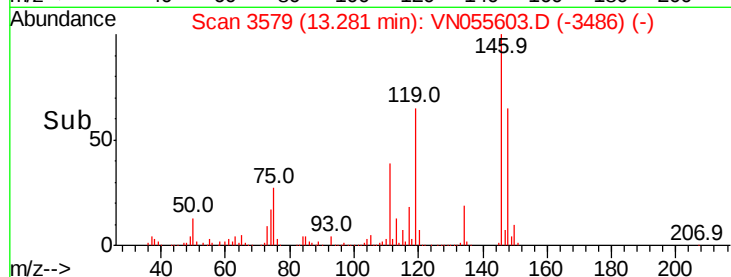
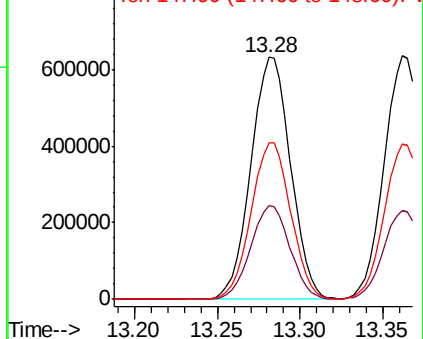
Manual Integrations
APPROVED

MMDadoda

5/20/2019 9:10:16 AM



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



#88

1,4-Dichlorobenzene

Concen: 143.892 ug/l

RT: 13.36 min Scan# 3604

Delta R.T. -0.00 min

Lab File: VN055603.D

Acq: 17 May 2019 11:26

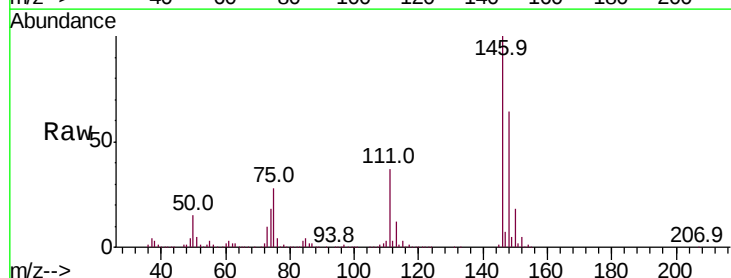
Tgt Ion:146 Resp: 1047424

Ion Ratio Lower Upper

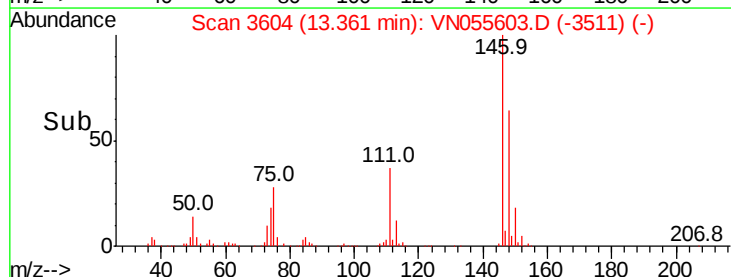
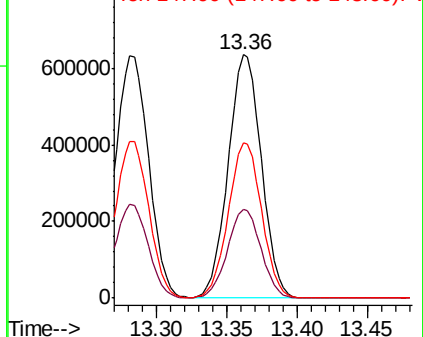
146 100

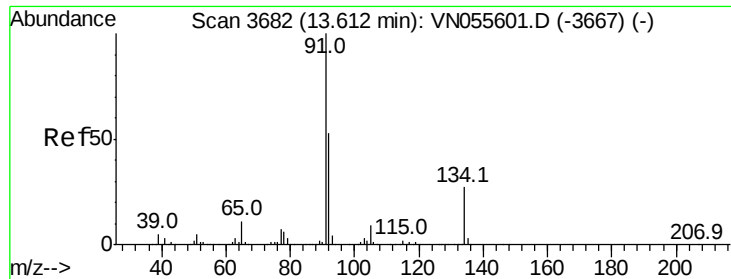
111 36.7 18.8 56.4

148 64.1 32.4 97.0



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





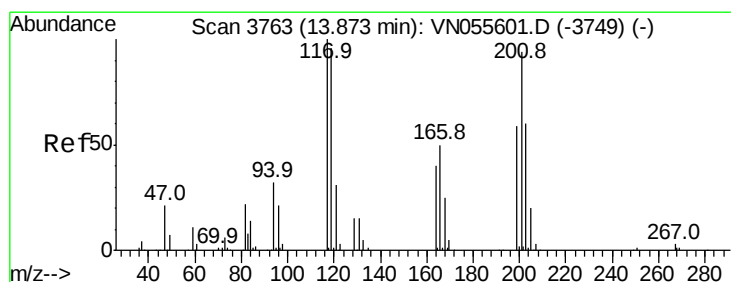
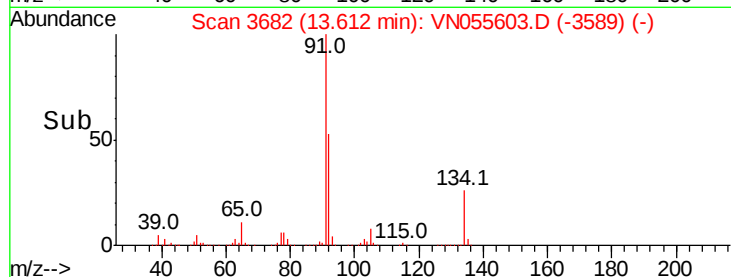
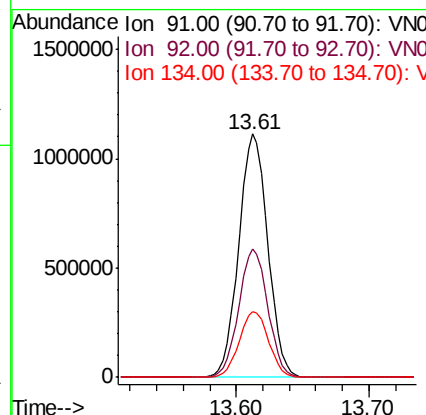
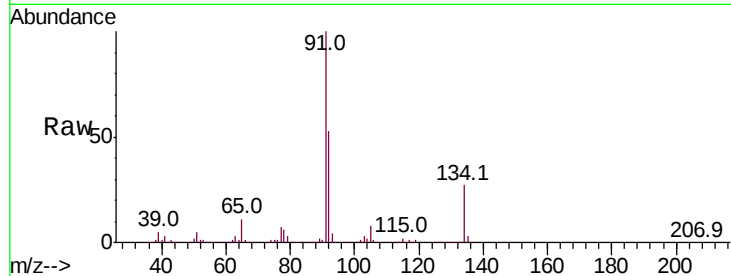
#89
n-Butylbenzene
Concen: 152.119 ug/l
RT: 13.61 min Scan# 3682
Delta R.T. 0.00 min
Lab File: VN055603.D
Acq: 17 May 2019 11:26

Instrument :
MSVOA_N
ClientSampleId :
VSTDIC150

Tot Ion	Ratio	Lower	Upper
91	100		
92	52.8	26.4	79.0
134	27.5	13.7	41.1

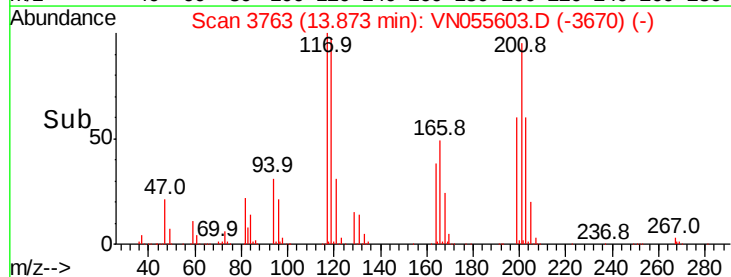
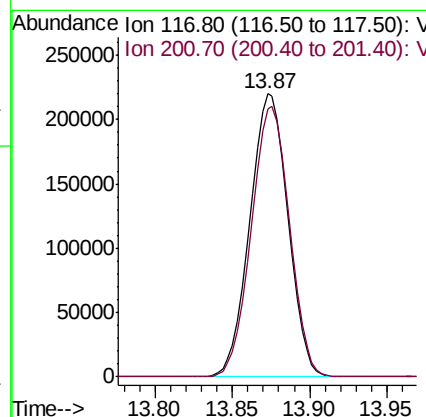
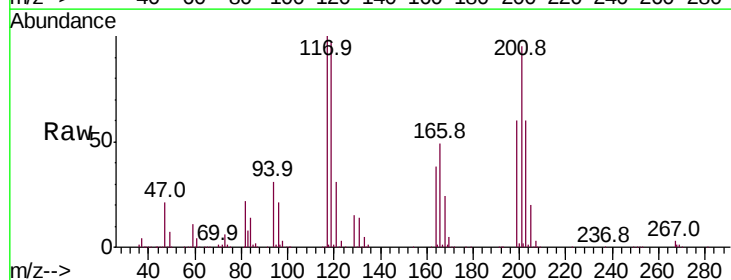
Manual Integrations
APPROVED

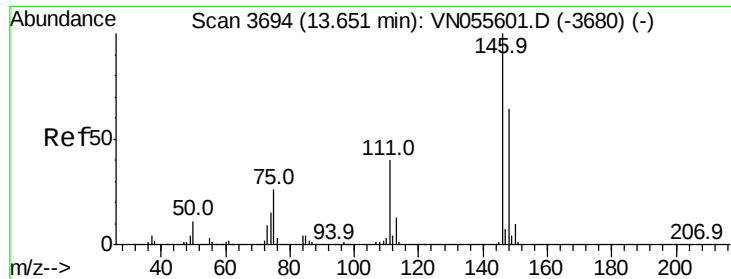
MMDadoda
5/20/2019 9:10:16 AM



#90
Hexachloroethane
Concen: 143.568 ug/l
RT: 13.87 min Scan# 3763
Delta R.T. -0.00 min
Lab File: VN055603.D
Acq: 17 May 2019 11:26

Tgt Ion	Ratio	Lower	Upper
117	100		
201	95.7	47.1	141.3





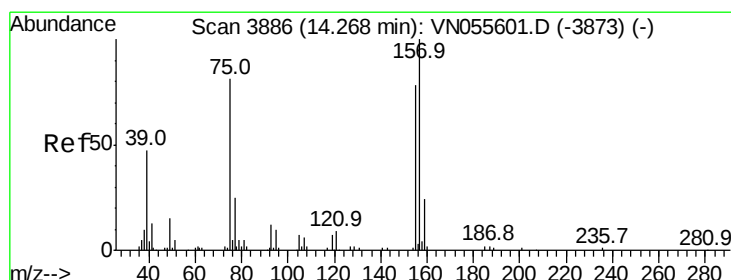
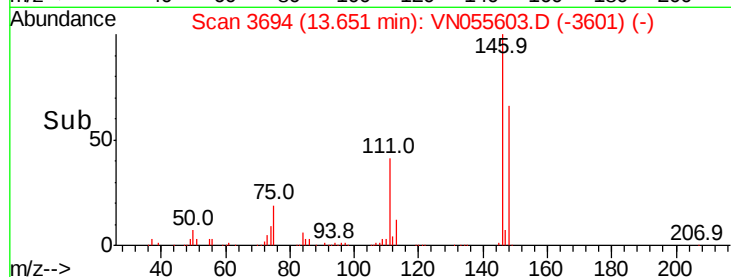
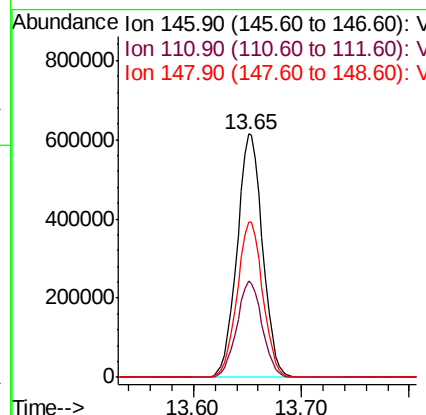
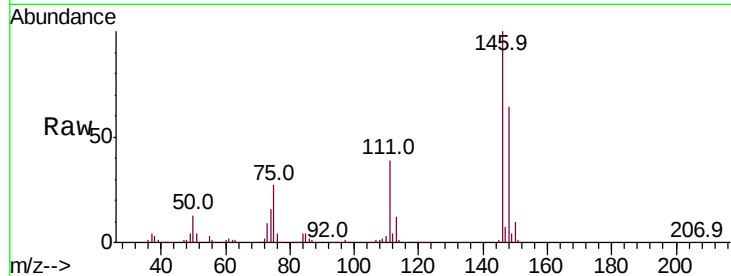
#91
 1,2-Dichlorobenzene
 Concen: 142.037 ug/l
 RT: 13.65 min Scan# 3694
 Delta R.T. 0.00 min
 Lab File: VN055603.D
 Acq: 17 May 2019 11:26

Instrument :
 MSVOA_N
 ClientSampleId :
 VSTDIC150

Tot Ion	Ratio	Lower	Upper
146	100		
111	39.4	19.7	59.0
148	64.3	32.1	96.3

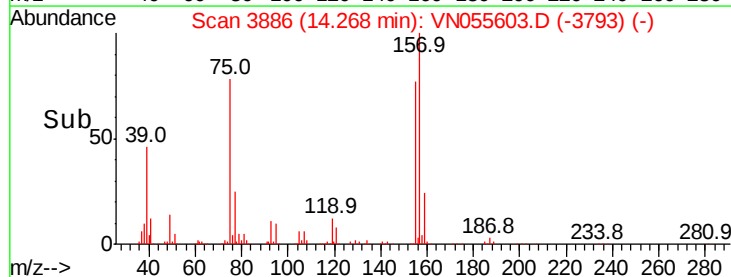
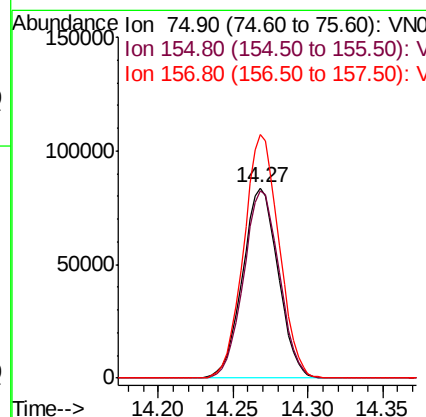
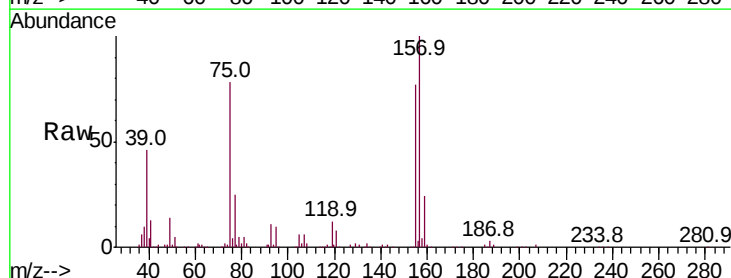
Manual Integrations
 APPROVED

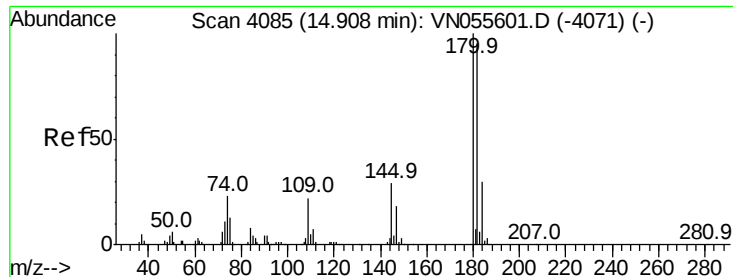
MMDadoda
 5/20/2019 9:10:16 AM



#92
 1,2-Dibromo-3-Chloropropane
 Concen: 226.535 ug/l
 RT: 14.27 min Scan# 3886
 Delta R.T. -0.00 min
 Lab File: VN055603.D
 Acq: 17 May 2019 11:26

Tgt Ion	Ratio	Lower	Upper
75	100		
155	98.7	48.4	145.0
157	126.8	62.3	186.8





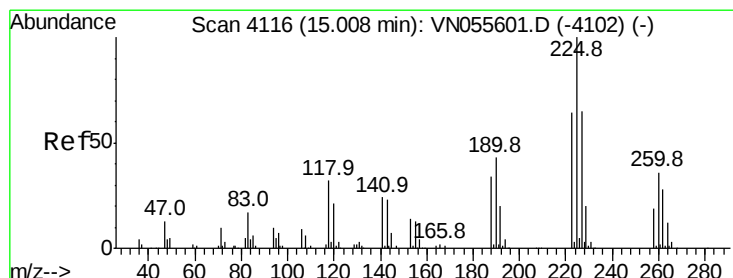
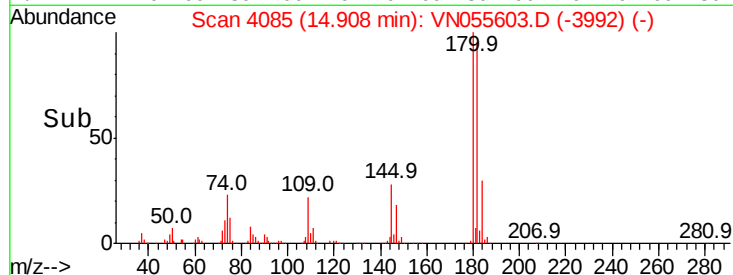
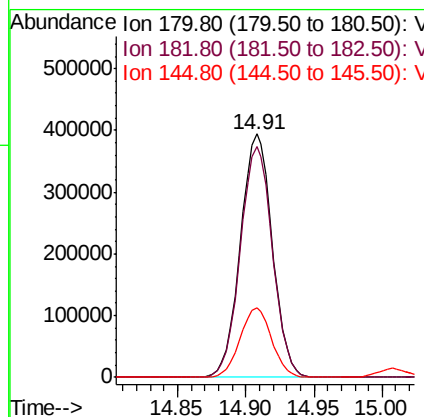
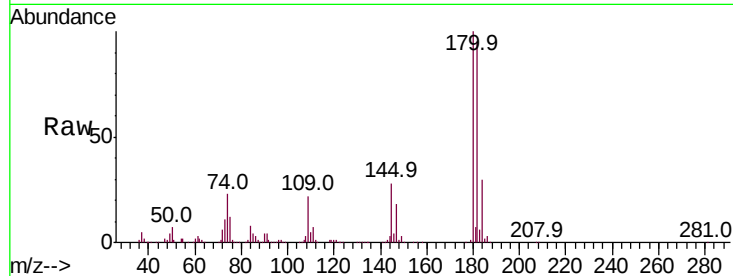
#93
 1,2,4-Trichlorobenzene
 Concen: 171.666 ug/l
 RT: 14.91 min Scan# 4085
 Delta R.T. 0.00 min
 Lab File: VN055603.D
 Acq: 17 May 2019 11:26

Instrument :
 MSVOA_N
 ClientSampleId :
 VSTDIC150

Tot Ion:	180	Resp:	638561
Ion Ratio	Lower	Upper	
180	100		
182	95.5	47.9	143.6
145	28.4	14.3	42.9

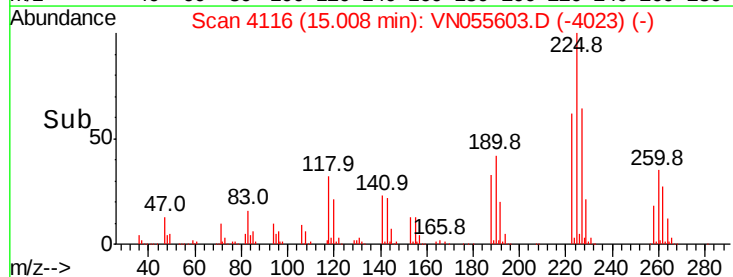
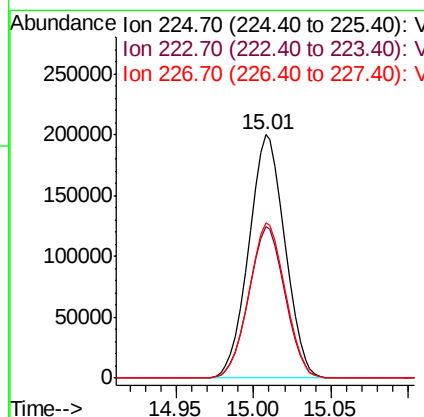
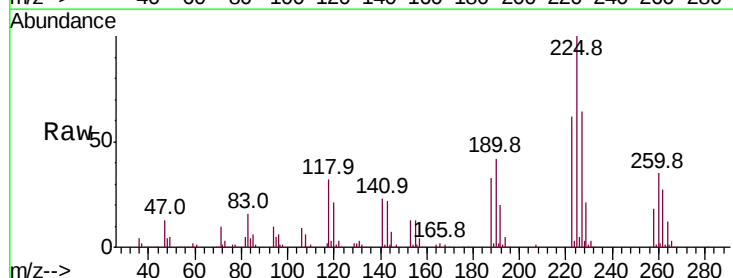
Manual Integrations
 APPROVED

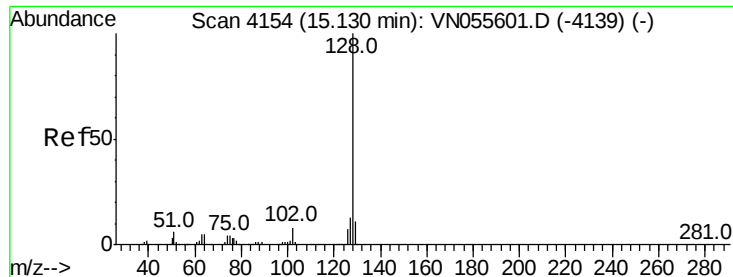
MMDadoda
 5/20/2019 9:10:16 AM



#94
 Hexachlorobutadiene
 Concen: 110.169 ug/l
 RT: 15.01 min Scan# 4116
 Delta R.T. -0.00 min
 Lab File: VN055603.D
 Acq: 17 May 2019 11:26

Tgt Ion:	225	Resp:	325654
Ion Ratio	Lower	Upper	
225	100		
223	62.4	31.6	94.7
227	64.1	32.4	97.0





#95

Naphthalene

Concen: 237.315 ug/l

RT: 15.13 min Scan# 4154

Delta R.T. -0.00 min

Lab File: VN055603.D

Acq: 17 May 2019 11:26

Instrument :

MSVOA_N

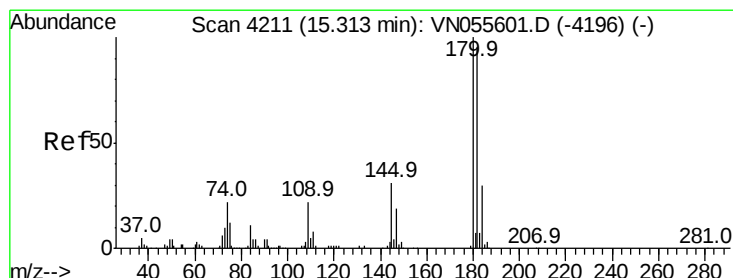
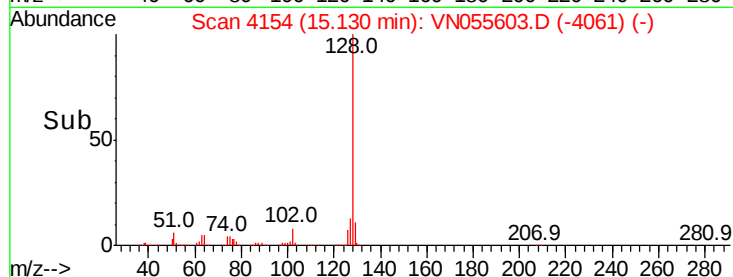
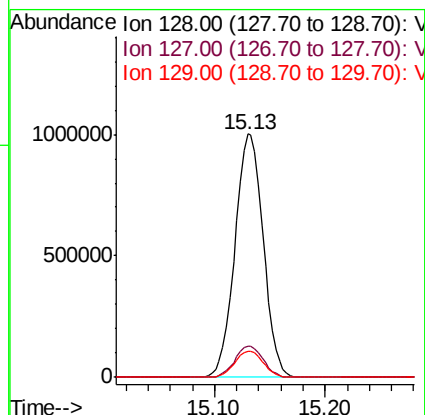
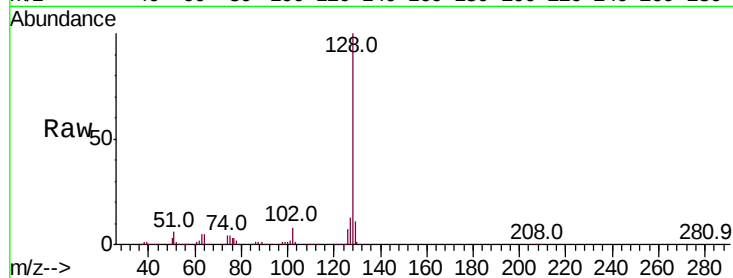
ClientSampled :

VSTDIC150

Tot Ion:	128	Resp:	1774481
Ion	Ratio	Lower	Upper
128	100		
127	12.9	10.2	15.4
129	10.9	8.6	12.8

Manual Integrations
APPROVED

MMDadoda
5/20/2019 9:10:16 AM



#96

1,2,3-Trichlorobenzene

Concen: 172.062 ug/l

RT: 15.31 min Scan# 4211

Delta R.T. -0.00 min

Lab File: VN055603.D

Acq: 17 May 2019 11:26

Tgt Ion:	180	Resp:	623988
Ion	Ratio	Lower	Upper
180	100		
182	96.2	47.9	143.6
145	30.4	15.4	46.1

