

Data Path : Z:\VOASRV\HPCHEM1\MSVOA N\DATA\VN051419\
 Data File : VN055596.D
 Acq On : 14 May 2019 16:16
 Operator : JC/SP
 Sample : VSTDCCC050
 Misc : 5.00mL/MSVOA N/WATER
 ALS Vial : 15 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 VSTDCCC050EC

Manual Integrations
 APPROVED

MMDadoda
 5/16/2019 1:32:08 PM

Quant Time: May 15 07:57:21 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_N\METHODS\82N051419W.M
 Quant Title : SW846 8260
 QLast Update : Wed May 15 07:28:47 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	7.66	168	756289	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	8.58	114	1269240	50.00	ug/l	0.00
63) Chlorobenzene-d5	11.41	117	1106995	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.34	152	460264	50.00	ug/l	0.00

System Monitoring Compounds

33) 1,2-Dichloroethane-d4	8.02	65	525021	49.42	ug/l	0.00
Spiked Amount	50.000		Recovery	=	98.84%	
35) Dibromofluoromethane	7.59	113	419424	50.71	ug/l	0.00
Spiked Amount	50.000		Recovery	=	101.42%	
50) Toluene-d8	10.09	98	1626431	51.47	ug/l	0.00
Spiked Amount	50.000		Recovery	=	102.94%	
62) 4-Bromofluorobenzene	12.40	95	535426	52.89	ug/l	0.00
Spiked Amount	50.000		Recovery	=	105.78%	

Target Compounds

						Qvalue
2) Dichlorodifluoromethane	1.85	85	350801	45.452	ug/l	99
3) Chloromethane	2.06	50	542072	45.145	ug/l	98
4) Vinyl Chloride	2.18	62	534052	45.635	ug/l	98
5) Bromomethane	2.54	94	316618	46.323	ug/l	100
6) Chloroethane	2.69	64	330066	46.531	ug/l	99
7) Trichlorofluoromethane	3.01	101	613309	47.018	ug/l	99
8) Diethyl Ether	3.41	74	272836	46.813	ug/l	99
9) 1,1,2-Trichlorotrifluoroet	3.75	101	383155	46.661	ug/l	99
10) Methyl Iodide	3.94	142	543141	51.876	ug/l	99
11) Tert butyl alcohol	4.81	59	341691	251.732	ug/l	98
12) 1,1-Dichloroethene	3.72	96	396071	48.169	ug/l	99
13) Acrolein	3.60	56	316230	232.200	ug/l	100
14) Allyl chloride	4.32	41	773164	48.806	ug/l	99
15) Acrylonitrile	4.99	53	1123466	246.481	ug/l	99
16) Acetone	3.82	43	1081844	223.888	ug/l	99
17) Carbon Disulfide	4.04	76	1120001	47.534	ug/l	99
18) Methyl Acetate	4.33	43	459625	50.748	ug/l	99
19) Methyl tert-butyl Ether	5.05	73	1281763	49.932	ug/l	100
20) Methylene Chloride	4.54	84	474809	46.686	ug/l	99
21) trans-1,2-Dichloroethene	5.04	96	431380	48.265	ug/l	97
22) Diisopropyl ether	5.95	45	1579471	49.641	ug/l	99
23) Vinyl Acetate	5.90	43	6264815	262.780	ug/l	100
24) 1,1-Dichloroethane	5.85	63	846666	47.912	ug/l	100
25) 2-Butanone	6.84	43	1545885	244.102	ug/l	100
26) 2,2-Dichloropropane	6.82	77	568383	49.801	ug/l	100
27) cis-1,2-Dichloroethene	6.83	96	498539	48.147	ug/l	99
28) Bromochloromethane	7.19	49	410307	47.805	ug/l	99
29) Tetrahydrofuran	7.21	42	998252	243.147	ug/l	98
30) Chloroform	7.37	83	788126	47.658	ug/l	100
31) Cyclohexane	7.65	56	807361	45.912	ug/l	99
32) 1,1,1-Trichloroethane	7.57	97	628194	49.057	ug/l	98
36) 1,1-Dichloropropene	7.79	75	614381	48.686	ug/l	100
37) Ethyl Acetate	6.93	43	595875	50.396	ug/l	99
38) Carbon Tetrachloride	7.77	117	518555	49.497	ug/l	99

Data Path : Z:\VOASRV\HPCHEM1\MSVOA N\DATA\VN051419\
 Data File : VN055596.D
 Acq On : 14 May 2019 16:16
 Operator : JC/SP
 Sample : VSTDCCC050
 Misc : 5.00mL/MSVOA N/WATER
 ALS Vial : 15 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleID :
 VSTDCCC050EC

Manual Integrations
 APPROVED

MMDadoda
 5/16/2019 1:32:08 PM

Quant Time: May 15 07:57:21 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_N\METHODS\82N051419W.M
 Quant Title : SW846 8260
 QLast Update : Wed May 15 07:28:47 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
39) Methylcyclohexane	9.08	83	735196	49.472	ug/l	98
40) Benzene	8.04	78	1895769	49.193	ug/l	99
41) Methacrylonitrile	7.17	41	309284	57.384	ug/l	99
42) 1,2-Dichloroethane	8.12	62	626994	48.786	ug/l	100
43) Isopropyl Acetate	8.17	43	961567	51.855	ug/l	100
44) Trichloroethene	8.83	130	453551	48.936	ug/l	98
45) 1,2-Dichloropropane	9.12	63	526645	49.582	ug/l	100
46) Dibromomethane	9.21	93	305405	48.685	ug/l	99
47) Bromodichloromethane	9.40	83	601762	50.323	ug/l	97
48) Methyl methacrylate	9.20	41	454722	50.197	ug/l	98
49) 1,4-Dioxane	9.20	88	172368	1041.146	ug/l	99
51) 4-Methyl-2-Pentanone	9.99	43	2963337	254.338	ug/l	100
52) Toluene	10.15	92	1102432	49.931	ug/l	100
53) t-1,3-Dichloropropene	10.38	75	616900	53.812	ug/l	99
54) cis-1,3-Dichloropropene	9.84	75	736740	53.521	ug/l	98
55) 1,1,2-Trichloroethane	10.56	97	429416	48.647	ug/l	98
56) Ethyl methacrylate	10.43	69	645620	52.486	ug/l	99
57) 1,3-Dichloropropane	10.71	76	765018	50.134	ug/l	100
58) 2-Chloroethyl Vinyl ether	9.69	63	883218	233.232	ug/l	100
59) 2-Hexanone	10.75	43	2047091	254.692	ug/l	100
60) Dibromochloromethane	10.90	129	420216	52.336	ug/l	100
61) 1,2-Dibromoethane	11.00	107	432075	51.809	ug/l	99
64) Tetrachloroethene	10.63	164	415274	46.963	ug/l	98
65) Chlorobenzene	11.43	112	1121852	48.836	ug/l	99
66) 1,1,1,2-Tetrachloroethane	11.51	131	398968	50.665	ug/l	100
67) Ethyl Benzene	11.51	91	2082084	50.535	ug/l	100
68) m/p-Xylenes	11.62	106	1523189	101.145	ug/l	100
69) o-Xylene	11.95	106	746657	50.949	ug/l	100
70) Styrene	11.96	104	1248183	53.555	ug/l	100
71) Bromoform	12.13	173	276608	53.891	ug/l #	100
73) Isopropylbenzene	12.25	105	1967446	43.740	ug/l	100
74) N-amyl acetate	12.07	43	758783	47.802	ug/l	100
75) 1,1,2,2-Tetrachloroethane	12.50	83	605170	52.038	ug/l	99
76) 1,2,3-Trichloropropane	12.55	75	523433m	45.964	ug/l	
77) Bromobenzene	12.52	156	456113	50.861	ug/l	99
78) n-propylbenzene	12.59	91	2218579	46.260	ug/l	100
79) 2-Chlorotoluene	12.67	91	1351892	44.315	ug/l	99
80) 1,3,5-Trimethylbenzene	12.73	105	1640117	46.130	ug/l	99
81) trans-1,4-Dichloro-2-buten	12.30	75	155226	48.483	ug/l	97
82) 4-Chlorotoluene	12.77	91	1320820	46.610	ug/l	100
83) tert-Butylbenzene	12.99	119	1366441	44.275	ug/l	100
84) 1,2,4-Trimethylbenzene	13.04	105	1574897	47.963	ug/l	100
85) sec-Butylbenzene	13.17	105	1821448	45.825	ug/l	100
86) p-Isopropyltoluene	13.29	119	1574620	48.857	ug/l	100
87) 1,3-Dichlorobenzene	13.28	146	758945	47.645	ug/l	100
88) 1,4-Dichlorobenzene	13.36	146	735611	46.936	ug/l	99
89) n-Butylbenzene	13.61	91	1237836	52.058	ug/l	99
90) Hexachloroethane	13.87	117	251249	50.393	ug/l	99
91) 1,2-Dichlorobenzene	13.65	146	748729	47.034	ug/l	98
92) 1,2-Dibromo-3-Chloropropan	14.27	75	89677	46.686	ug/l	95

Data Path : Z:\VOASRV\HPCHEM1\MSVOA N\DATA\VN051419\
Data File : VN055596.D
Acq On : 14 May 2019 16:16
Operator : JC/SP
Sample : VSTDCCC050
Misc : 5.00mL/MSVOA N/WATER
ALS Vial : 15 Sample Multiplier: 1

Instrument :
MSVOA_N
ClientSampleId :
VSTDCCC050EC

Manual Integrations
APPROVED

MMDadoda
5/16/2019 1:32:08 PM

Quant Time: May 15 07:57:21 2019
Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_N\METHODS\82N051419W.M
Quant Title : SW846 8260
QLast Update : Wed May 15 07:28:47 2019
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
93) 1,2,4-Trichlorobenzene	14.91	180	296991	46.139	ug/l	99
94) Hexachlorobutadiene	15.01	225	227805	52.078	ug/l	99
95) Naphthalene	15.13	128	808420	47.048	ug/l	99
96) 1,2,3-Trichlorobenzene	15.31	180	322601	47.093	ug/l	99

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

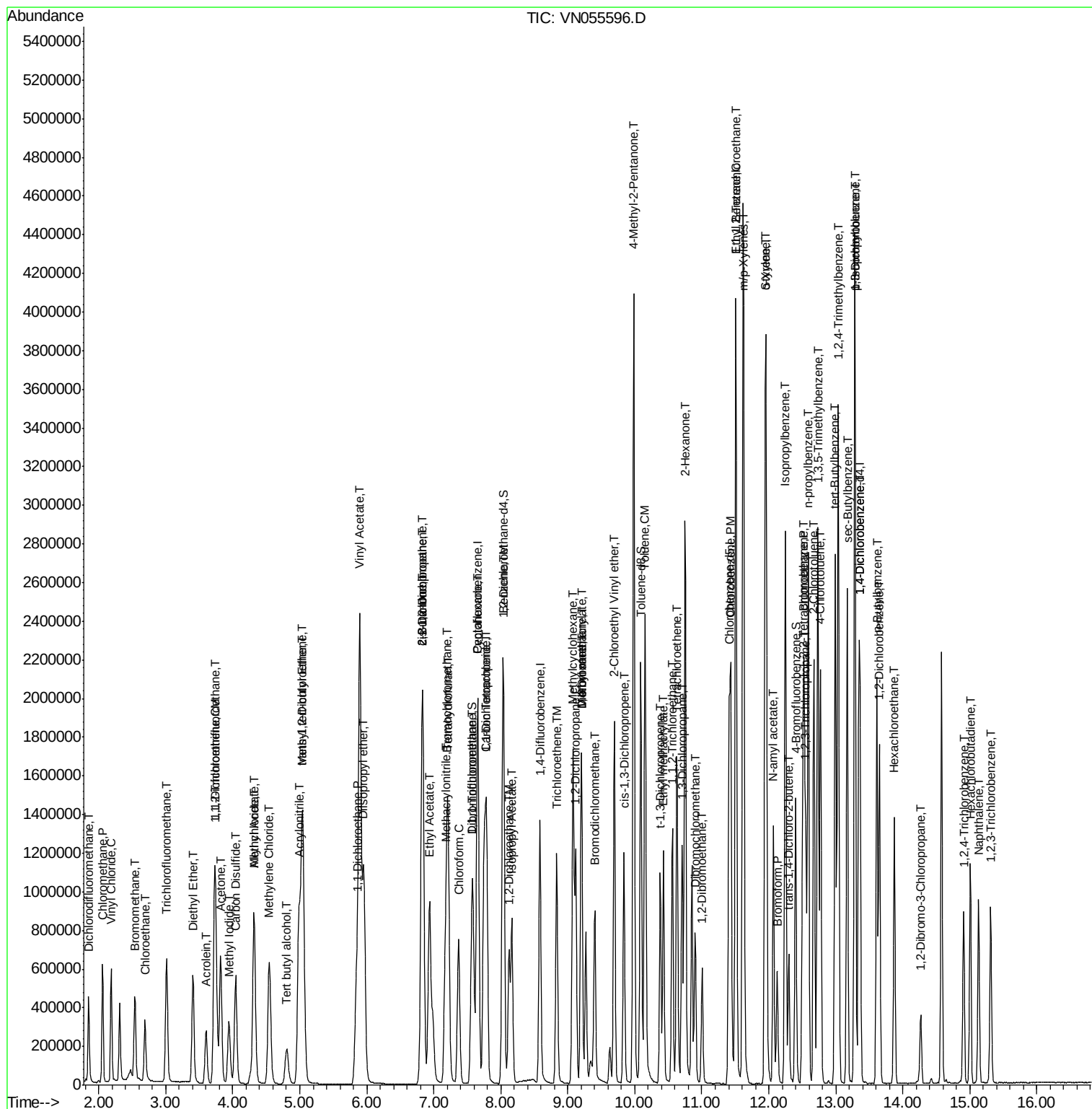
Data Path : Z:\V0ASRV\HPCHEM1\MSVOA N\DATA\VN051419\
 Data File : VN055596.D
 Acq On : 14 May 2019 16:16
 Operator : JC/SP
 Sample : VSTDCCC050
 Misc : 5.00mL/MSVOA N/WATER
 ALS Vial : 15 Sample Multiplier: 1

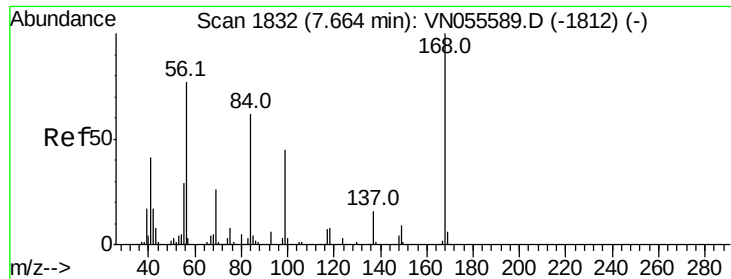
Instrument :
 MSVOA_N
 Client Sample Id :
 VSTDCCC050EC

Manual Integrations
 APPROVED

MMDadoda
 5/16/2019 1:32:08 PM

Quant Time: May 15 07:57:21 2019
 Quant Method : Z:\V0ASRV\HPCHEM1\MSVOA_N\METHODS\82N051419W.M
 Quant Title : SW846 8260
 QLast Update : Wed May 15 07:28:47 2019
 Response via : Initial Calibration





#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 7.66 min Scan# 1832

Delta R.T. 0.00 min

Lab File: VN055596.D

Acq: 14 May 2019 16:16

Instrument :

MSVOA_N

ClientSampleId :

VSTDCCC050EC

Tot Ion:168 Resp: 756289

Ion Ratio Lower Upper

168 100

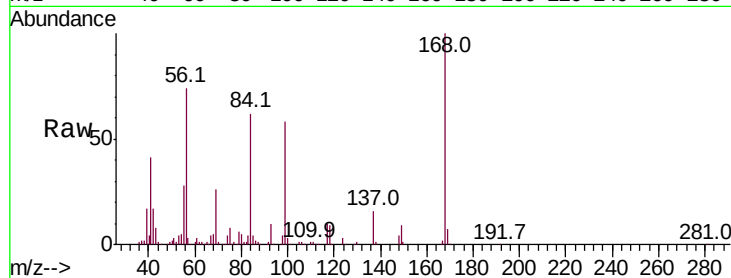
99 57.1 44.6 66.8

Manual Integrations

APPROVED

MMDadoda

5/16/2019 1:32:08 PM



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VN

7.66

300000

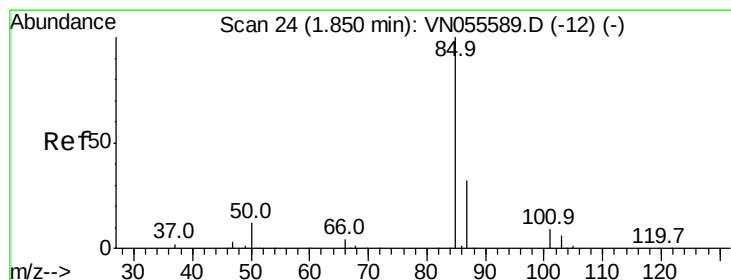
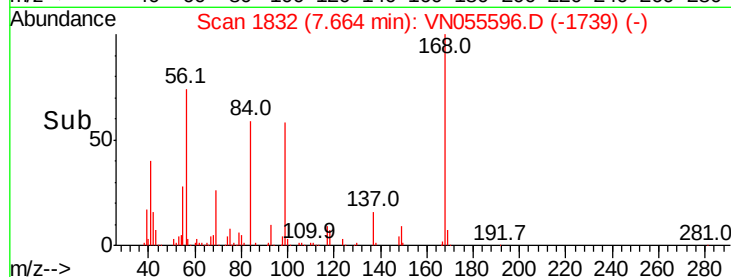
200000

100000

0

7.60 7.70 7.80

Time-->



#2

Dichlorodifluoromethane

Concen: 45.452 ug/l

RT: 1.85 min Scan# 23

Delta R.T. -0.00 min

Lab File: VN055596.D

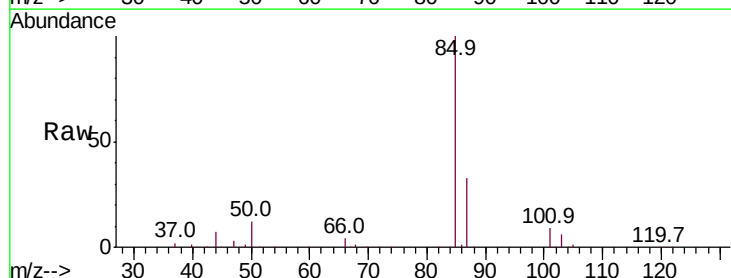
Acq: 14 May 2019 16:16

Tgt Ion: 85 Resp: 350801

Ion Ratio Lower Upper

85 100

87 33.0 16.1 48.3



Abundance Ion 84.90 (84.60 to 85.60): VN

Ion 86.90 (86.60 to 87.60): VN

1.85

250000

200000

150000

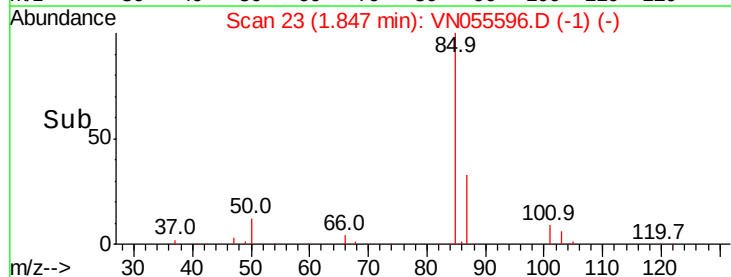
100000

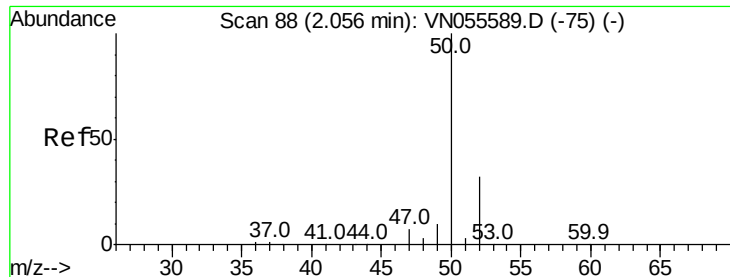
50000

0

1.75 1.80 1.85 1.90 1.95

Time-->





#3

Chloromethane

Concen: 45.145 ug/l

RT: 2.06 min Scan# 88

Delta R.T. 0.00 min

Lab File: VN055596.D

Acq: 14 May 2019 16:16

Instrument :

MSVOA_N

ClientSampleId :

VSTDCCC050EC

Tot Ion: 50 Resp: 542072

Ion Ratio Lower Upper

50 100

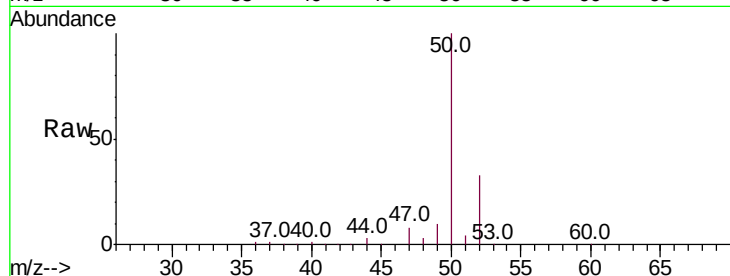
52 33.0 25.5 38.3

Manual Integrations

APPROVED

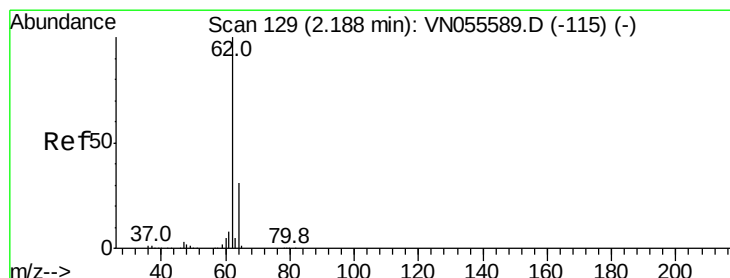
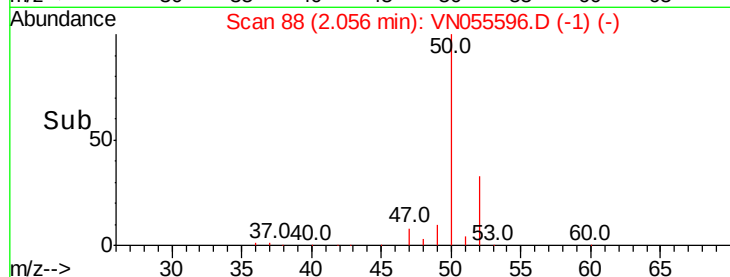
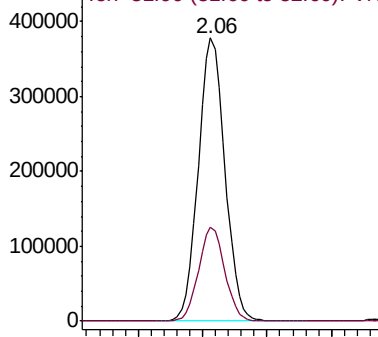
MMDadoda

5/16/2019 1:32:08 PM



Abundance Ion 49.90 (49.60 to 50.60): VN0

Ion 51.90 (51.60 to 52.60): VN0



#4

Vinyl Chloride

Concen: 45.635 ug/l

RT: 2.18 min Scan# 128

Delta R.T. -0.00 min

Lab File: VN055596.D

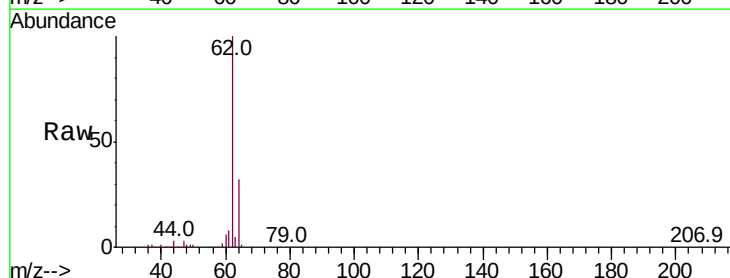
Acq: 14 May 2019 16:16

Tgt Ion: 62 Resp: 534052

Ion Ratio Lower Upper

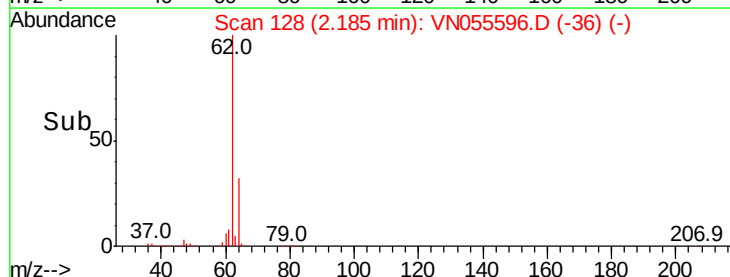
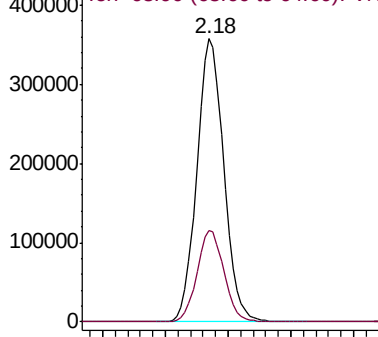
62 100

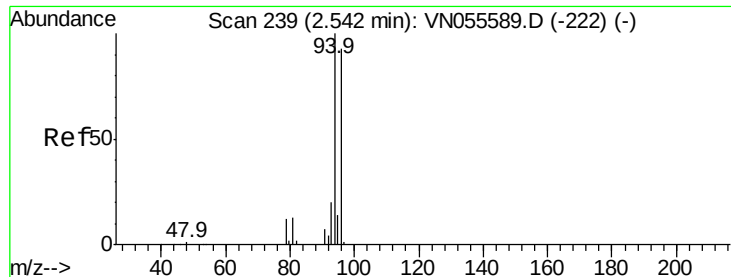
64 32.5 25.1 37.7



Abundance Ion 61.90 (61.60 to 62.60): VN0

Ion 63.90 (63.60 to 64.60): VN0





#5

Bromomethane

Concen: 46.323 ug/l

RT: 2.54 min Scan# 238

Delta R.T. -0.00 min

Lab File: VN055596.D

Acq: 14 May 2019 16:16

Instrument :

MSVOA_N

ClientSampleId :

VSTDCCC050EC

Tot Ion: 94 Resp: 316618

Ion Ratio Lower Upper

94 100

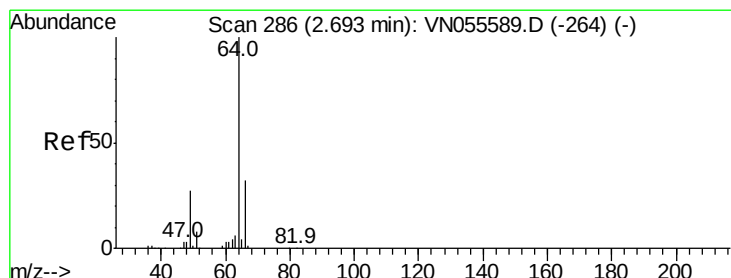
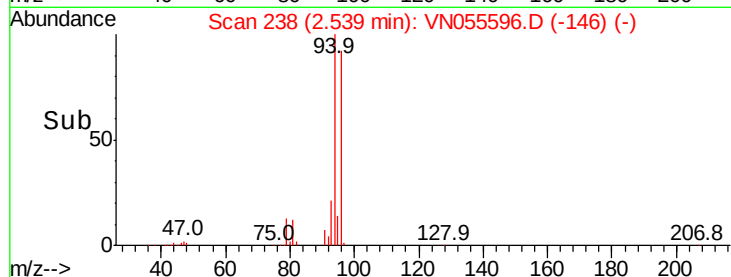
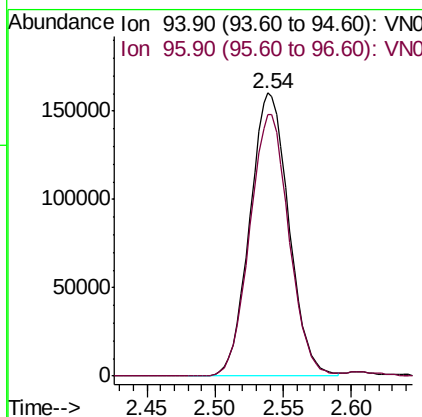
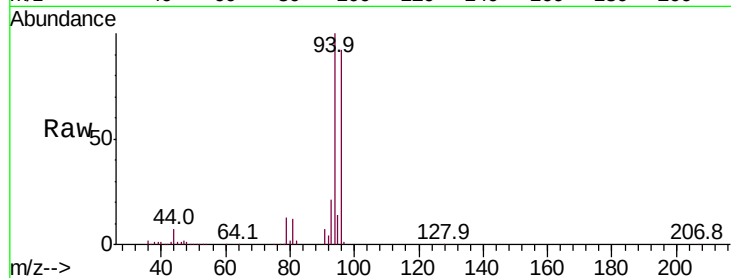
96 92.4 74.0 111.0

Manual Integrations

APPROVED

MMDadoda

5/16/2019 1:32:08 PM



#6

Chloroethane

Concen: 46.531 ug/l

RT: 2.69 min Scan# 285

Delta R.T. -0.00 min

Lab File: VN055596.D

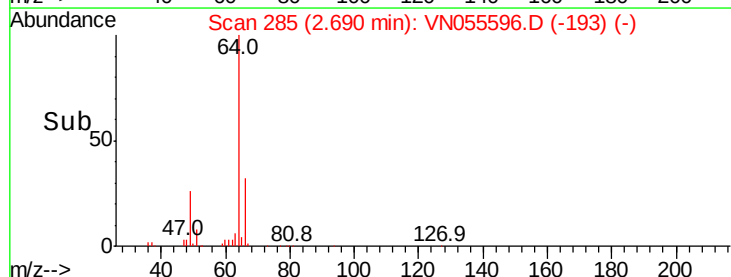
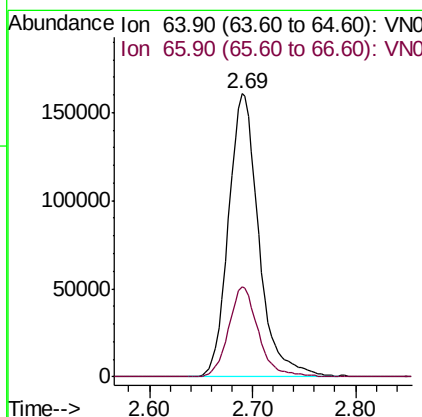
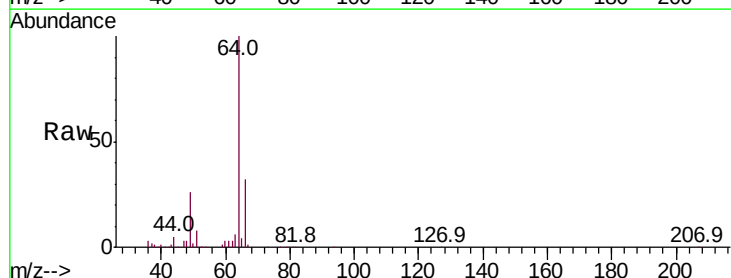
Acq: 14 May 2019 16:16

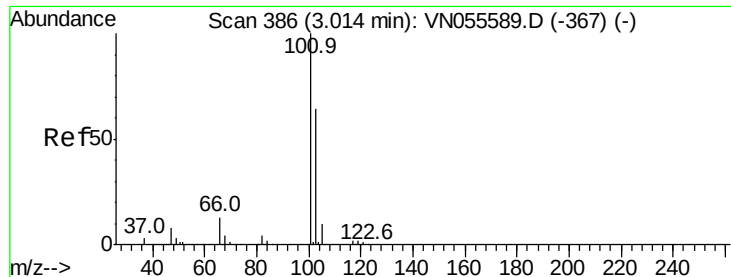
Tgt Ion: 64 Resp: 330066

Ion Ratio Lower Upper

64 100

66 31.9 25.8 38.6





#7

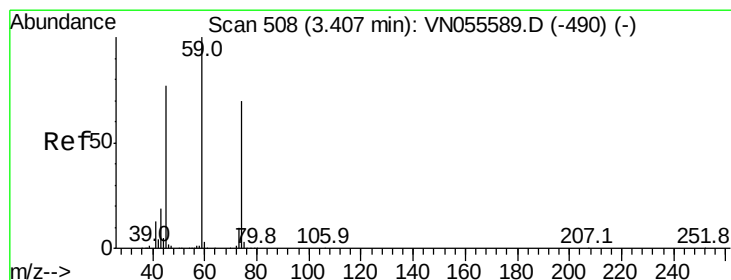
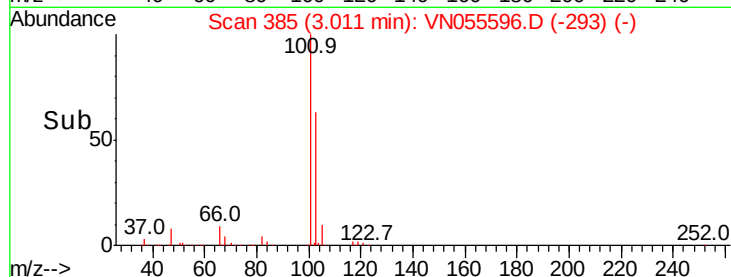
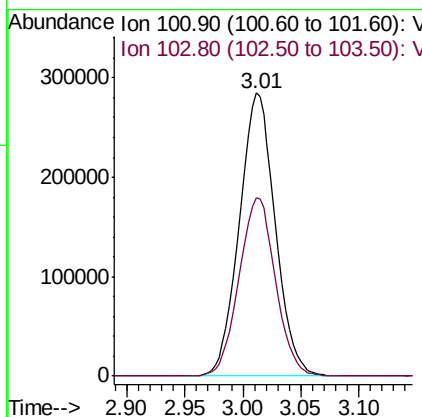
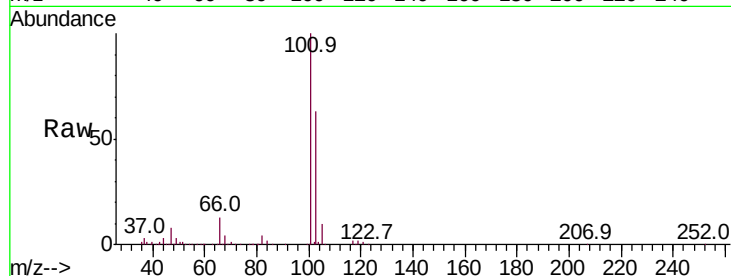
Trichlorofluoromethane
 Concen: 47.018 ug/l
 RT: 3.01 min Scan# 385
 Delta R.T. -0.00 min
 Lab File: VN055596.D
 Acq: 14 May 2019 16:16

Instrument :
 MSVOA_N
 ClientSampleId :
 VSTDCCC050EC

Tot Ion	Ratio	Lower	Upper
101	100		
103	62.8	51.0	76.6

Manual Integrations
 APPROVED

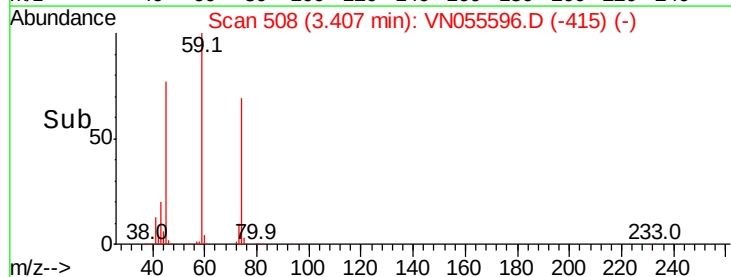
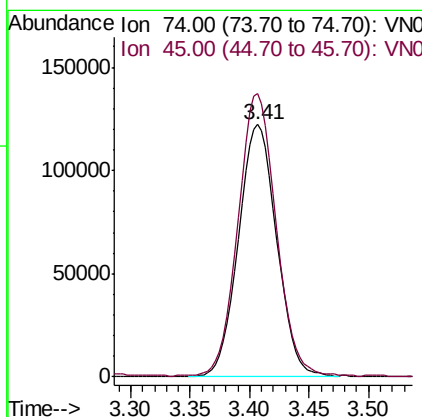
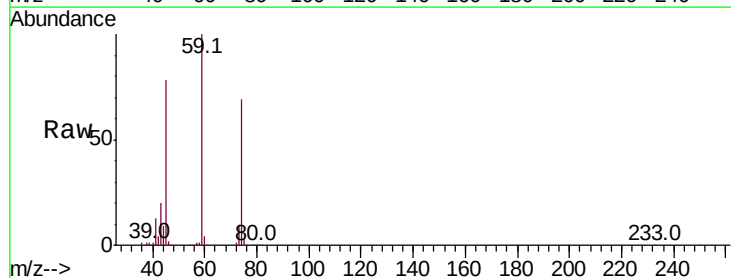
MMDadoda
 5/16/2019 1:32:08 PM

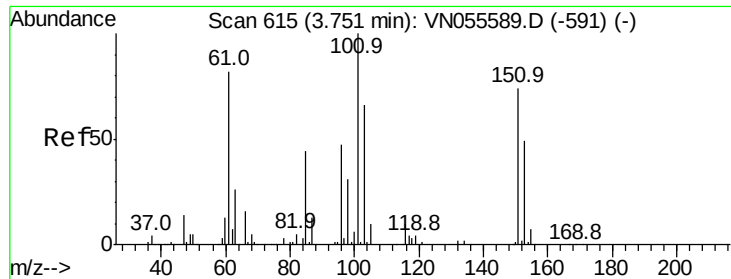


#8

Diethyl Ether
 Concen: 46.813 ug/l
 RT: 3.41 min Scan# 508
 Delta R.T. 0.00 min
 Lab File: VN055596.D
 Acq: 14 May 2019 16:16

Tgt Ion	Ratio	Lower	Upper
74	100		
45	111.0	54.9	164.7





#9

1,1,2-Trichlorotrifluoroethane

Concen: 46.661 ug/l

RT: 3.75 min Scan# 614

Delta R.T. -0.00 min

Lab File: VN055596.D

Acq: 14 May 2019 16:16

Instrument :

MSVOA_N

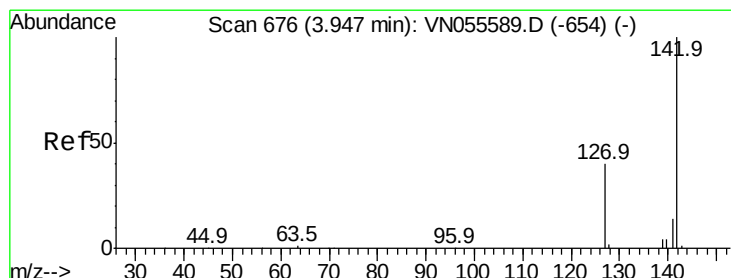
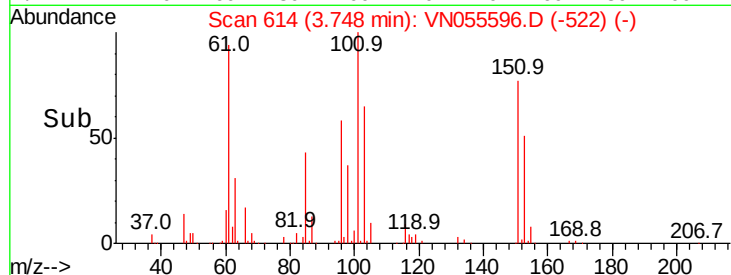
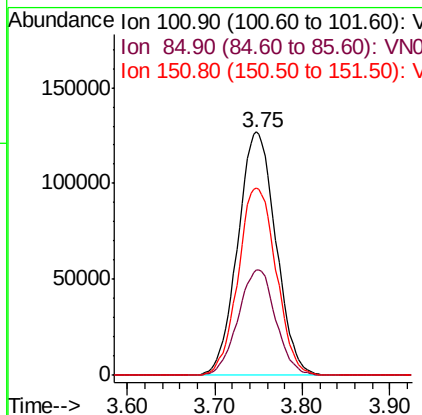
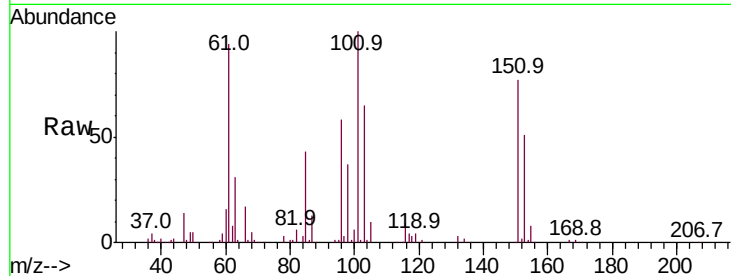
ClientSampleId :

VSTDCCC050EC

Tot Ion:	101	Resp:	383155
Ion Ratio	Lower	Upper	
101	100		
85	42.8	34.2	51.2
151	76.7	60.2	90.2

Manual Integrations
APPROVED

MMDadoda
5/16/2019 1:32:08 PM



#10

Methyl Iodide

Concen: 51.876 ug/l

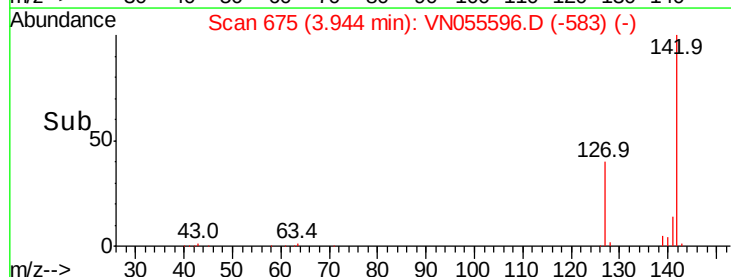
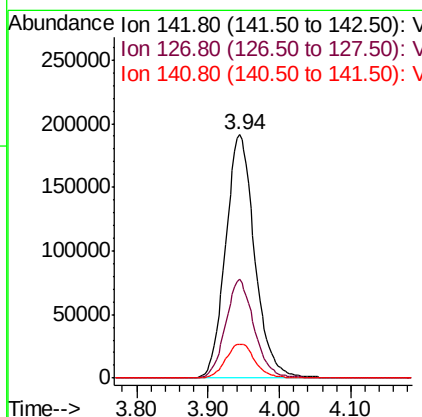
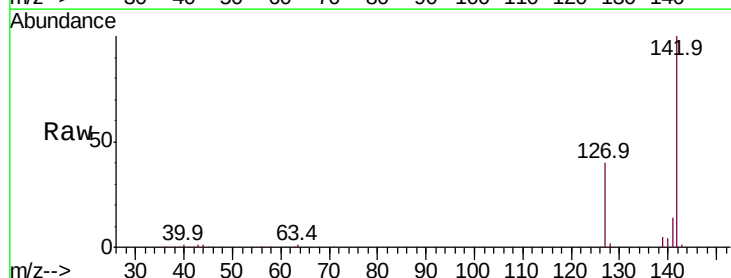
RT: 3.94 min Scan# 675

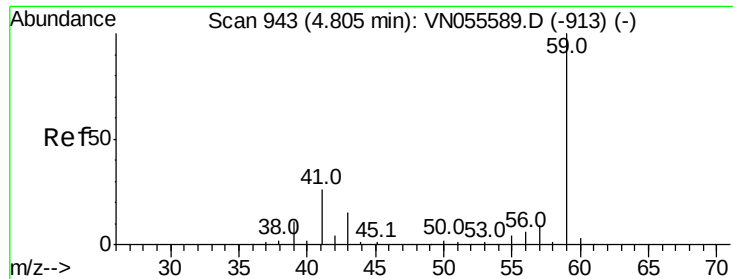
Delta R.T. -0.00 min

Lab File: VN055596.D

Acq: 14 May 2019 16:16

Tgt Ion:	142	Resp:	543141
Ion Ratio	Lower	Upper	
142	100		
127	39.8	32.5	48.7
141	14.2	11.2	16.8





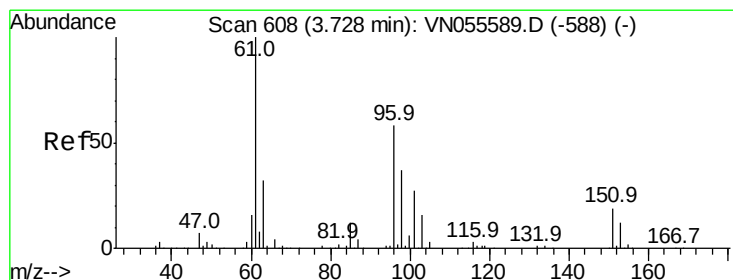
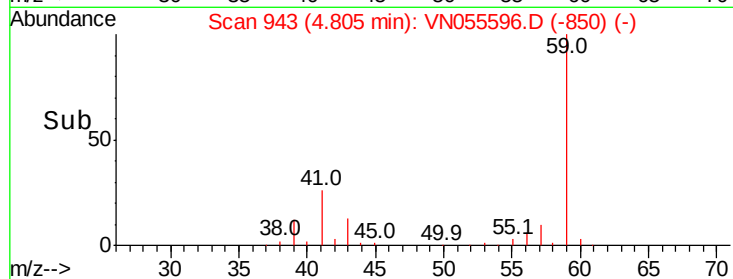
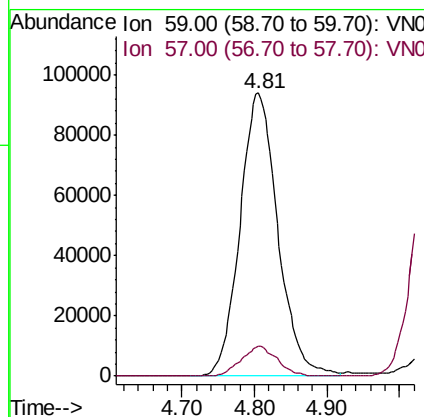
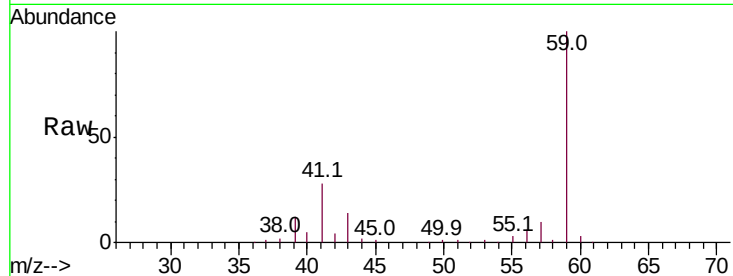
#11
Tert butyl alcohol
Concen: 251.732 ug/l
RT: 4.81 min Scan# 943
Delta R.T. 0.00 min
Lab File: VN055596.D
Acq: 14 May 2019 16:16

Instrument :
MSVOA_N
ClientSampleId :
VSTDCCC050EC

Tot Ion: 59 Resp: 341691
Ion Ratio Lower Upper
59 100
57 10.1 7.6 11.4

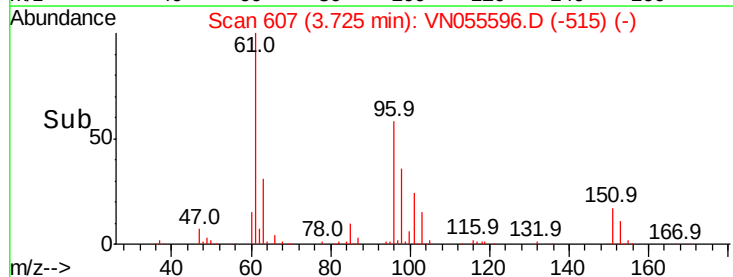
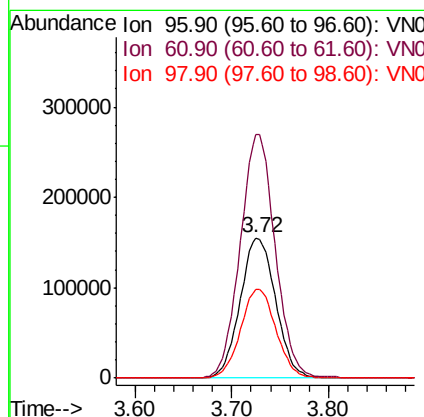
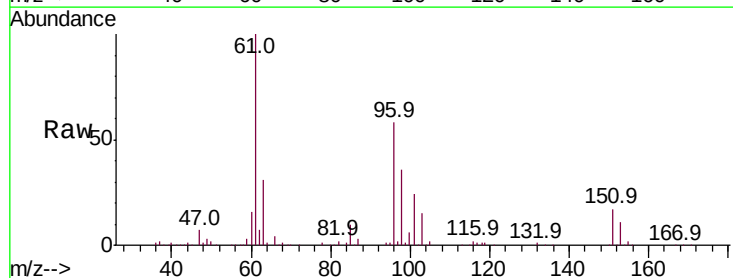
Manual Integrations
APPROVED

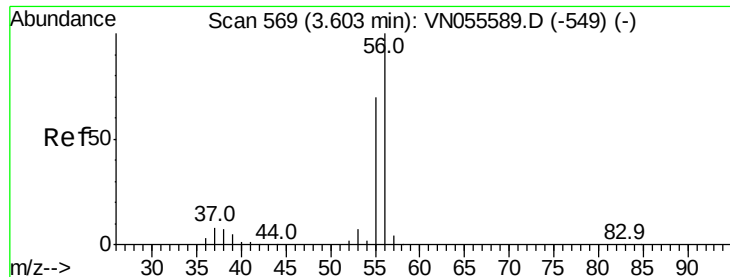
MMDadoda
5/16/2019 1:32:08 PM



#12
1,1-Dichloroethene
Concen: 48.169 ug/l
RT: 3.72 min Scan# 607
Delta R.T. -0.00 min
Lab File: VN055596.D
Acq: 14 May 2019 16:16

Tgt Ion: 96 Resp: 396071
Ion Ratio Lower Upper
96 100
61 173.9 137.5 206.3
98 63.0 50.3 75.5





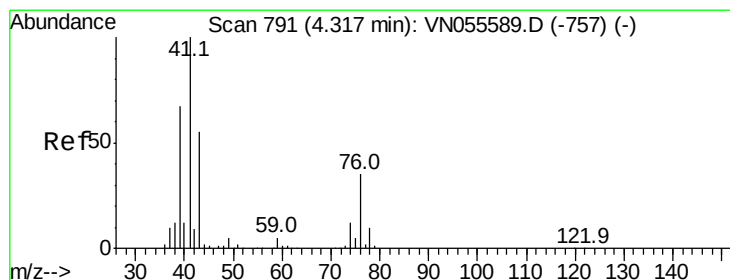
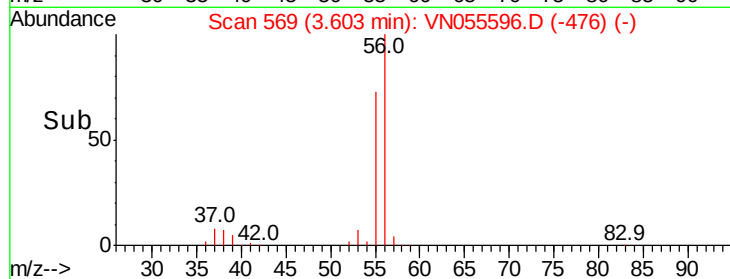
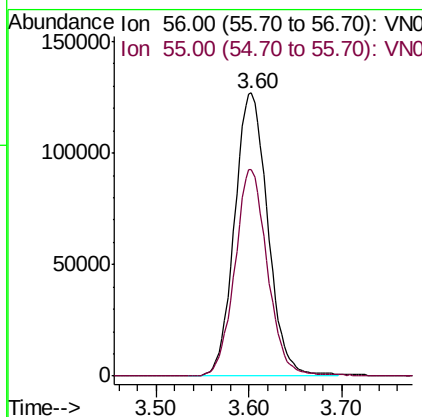
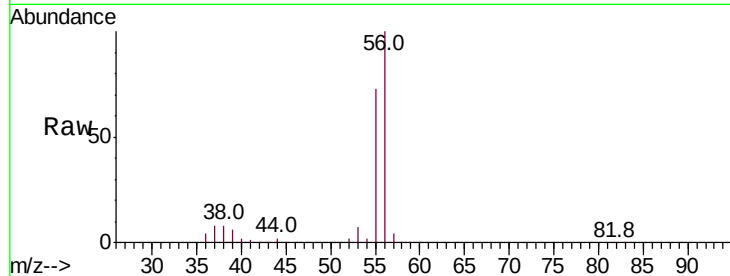
#13
Acrolein
Concen: 232.200 ug/l
RT: 3.60 min Scan# 569
Delta R.T. 0.00 min
Lab File: VN055596.D
Acq: 14 May 2019 16:16

Instrument :
MSVOA_N
ClientSampleId :
VSTDCCC050EC

Tot Ion	Ratio	Lower	Upper
56	100		
55	71.5	57.1	85.7

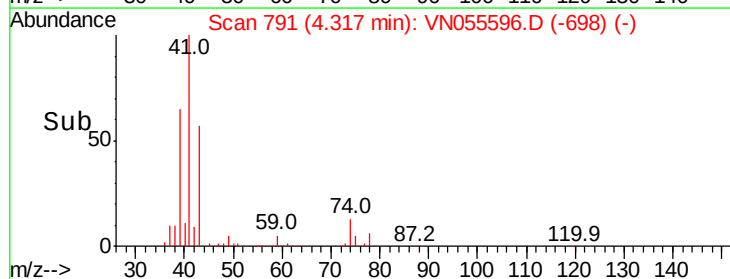
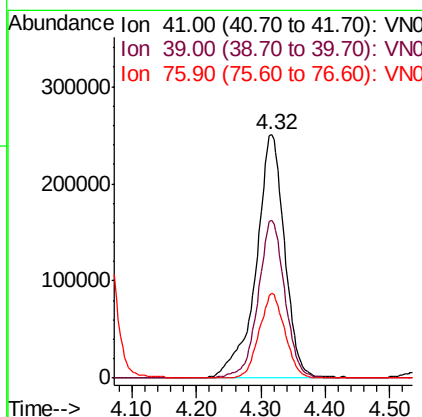
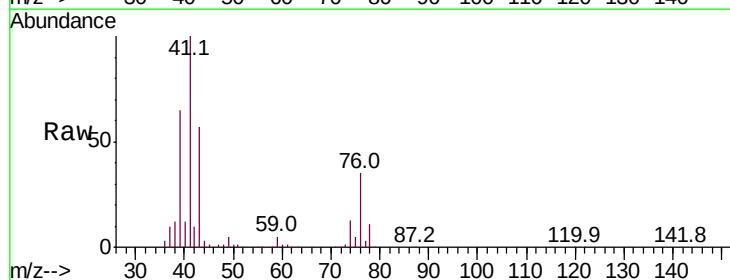
Manual Integrations
APPROVED

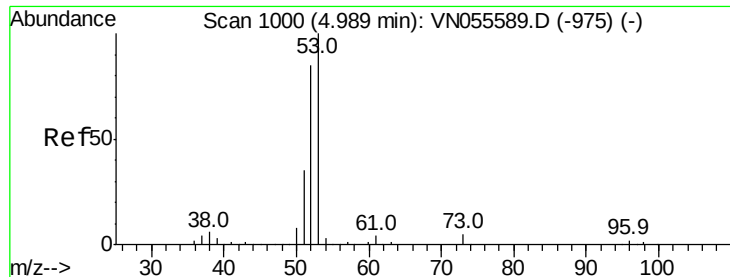
MMDadoda
5/16/2019 1:32:08 PM



#14
Allyl chloride
Concen: 48.806 ug/l
RT: 4.32 min Scan# 791
Delta R.T. 0.00 min
Lab File: VN055596.D
Acq: 14 May 2019 16:16

Tgt Ion	Ratio	Lower	Upper
41	100		
39	60.5	49.3	73.9
76	31.0	24.7	37.1





#15

Acrylonitrile

Concen: 246.481 ug/l

RT: 4.99 min Scan# 1000

Delta R.T. 0.00 min

Lab File: VN055596.D

Acq: 14 May 2019 16:16

Instrument :

MSVOA_N

ClientSampleId :

VSTDCCC050EC

Tot Ion: 53 Resp: 1123466

Ion Ratio Lower Upper

53 100

52 83.2 65.6 98.4

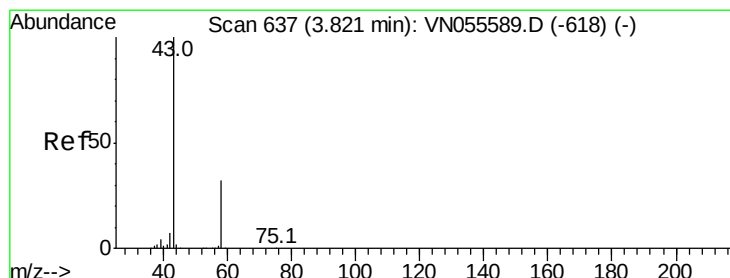
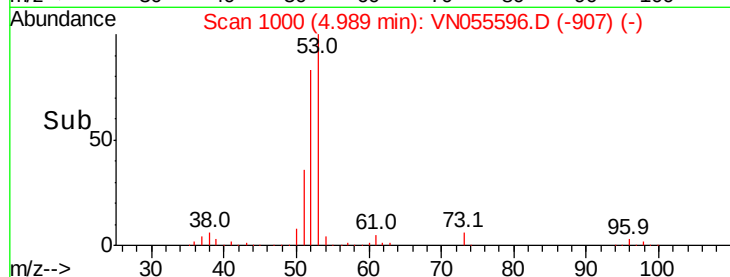
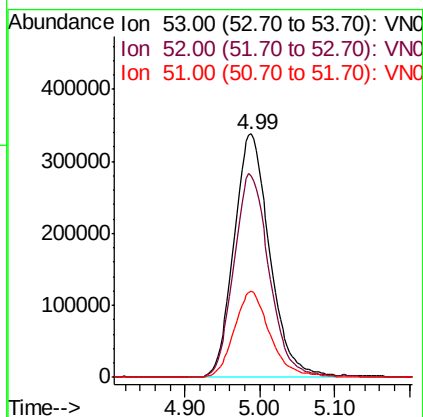
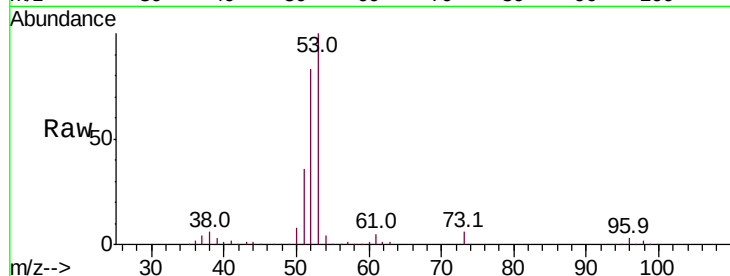
51 35.6 28.3 42.5

Manual Integrations

APPROVED

MMDadoda

5/16/2019 1:32:08 PM



#16

Acetone

Concen: 223.888 ug/l

RT: 3.82 min Scan# 636

Delta R.T. -0.00 min

Lab File: VN055596.D

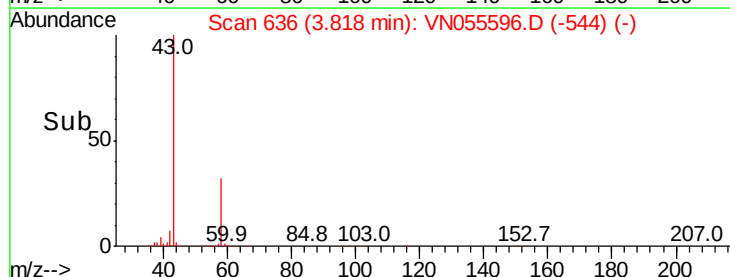
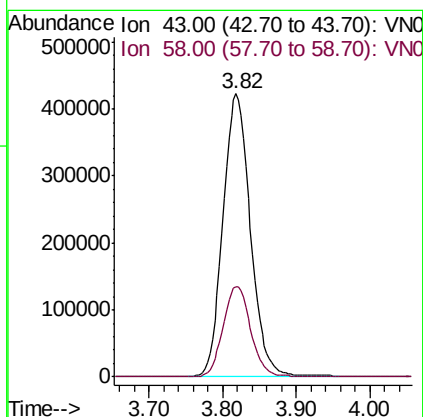
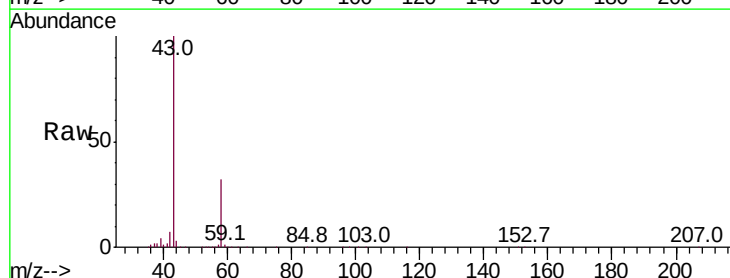
Acq: 14 May 2019 16:16

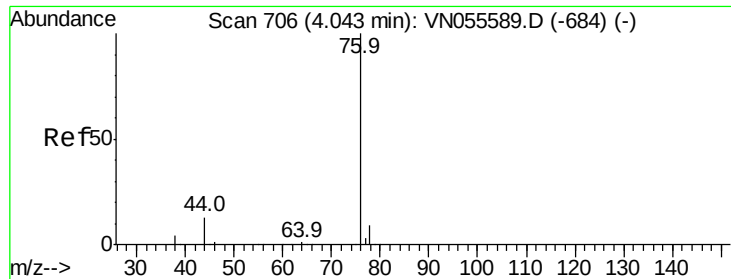
Tgt Ion: 43 Resp: 1081844

Ion Ratio Lower Upper

43 100

58 31.8 25.7 38.5





#17

Carbon Disulfide

Concen: 47.534 ug/l

RT: 4.04 min Scan# 706

Delta R.T. 0.00 min

Lab File: VN055596.D

Acq: 14 May 2019 16:16

Instrument :

MSVOA_N

ClientSampleId :

VSTDCCC050EC

Tot Ion: 76 Resp: 1120001

Ion Ratio Lower Upper

76 100

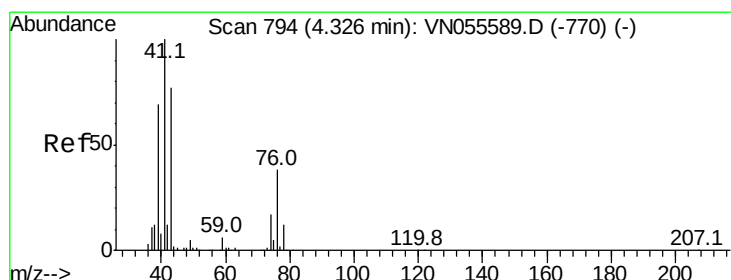
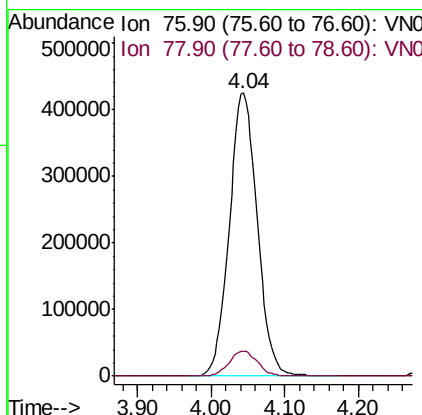
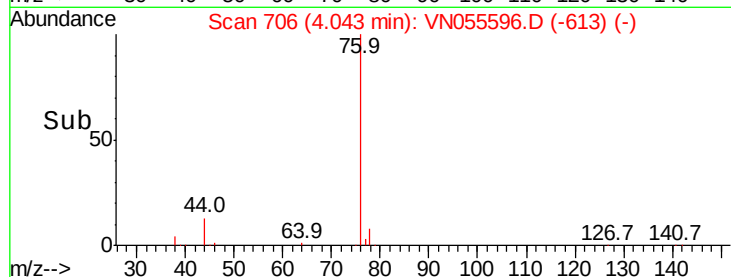
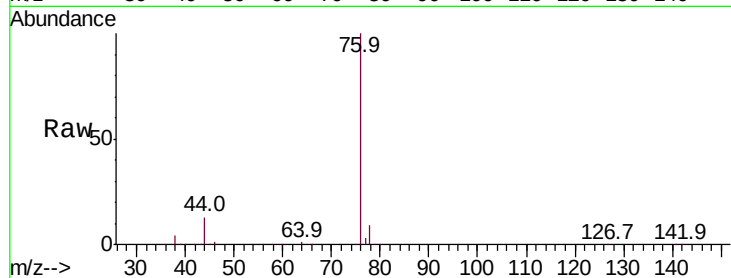
78 8.9 7.4 11.0

Manual Integrations

APPROVED

MMDadoda

5/16/2019 1:32:08 PM



#18

Methyl Acetate

Concen: 50.748 ug/l

RT: 4.33 min Scan# 794

Delta R.T. 0.00 min

Lab File: VN055596.D

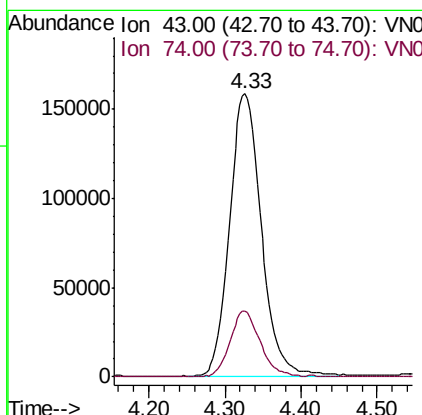
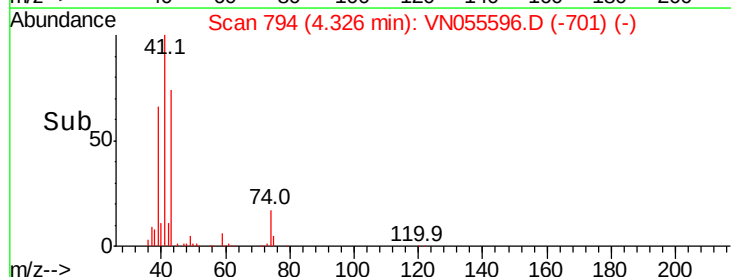
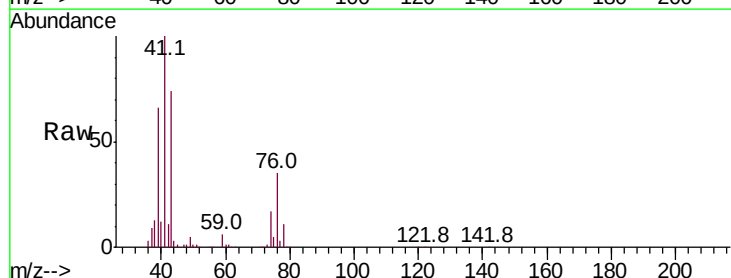
Acq: 14 May 2019 16:16

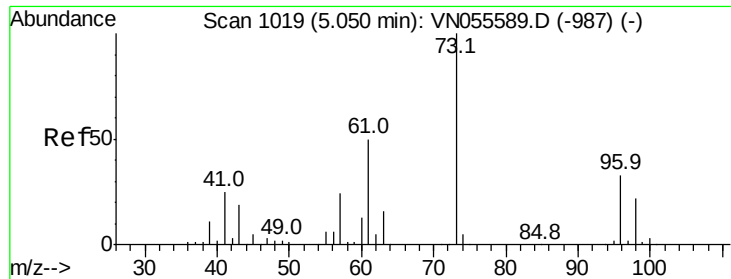
Tgt Ion: 43 Resp: 459625

Ion Ratio Lower Upper

43 100

74 22.3 17.4 26.2





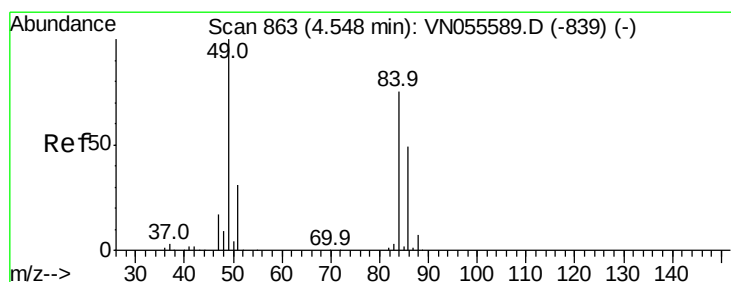
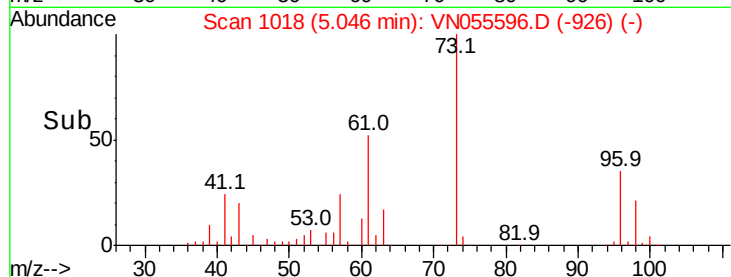
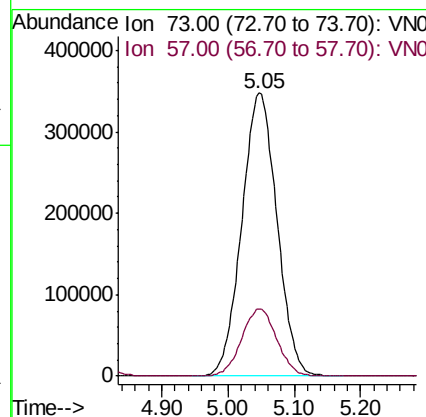
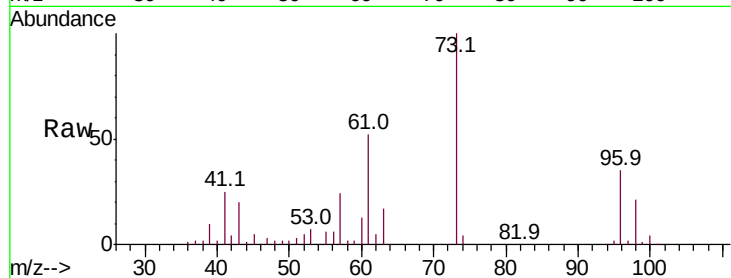
#19
Methyl tert-butyl Ether
Concen: 49.932 ug/l
RT: 5.05 min Scan# 1018
Delta R.T. -0.00 min
Lab File: VN055596.D
Acq: 14 May 2019 16:16

Instrument :
MSVOA_N
ClientSampleId :
VSTDCCC050EC

Tot Ion: 73 Resp: 1281763
Ion Ratio Lower Upper
73 100
57 23.7 18.9 28.3

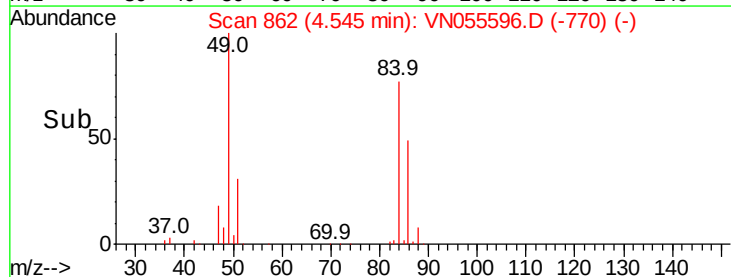
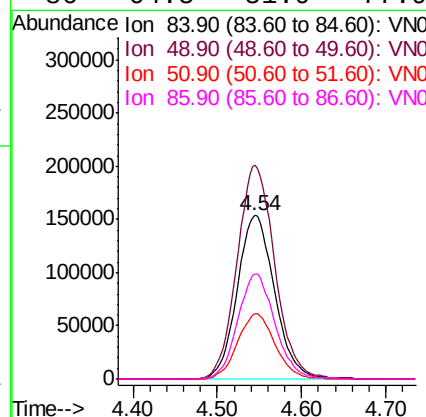
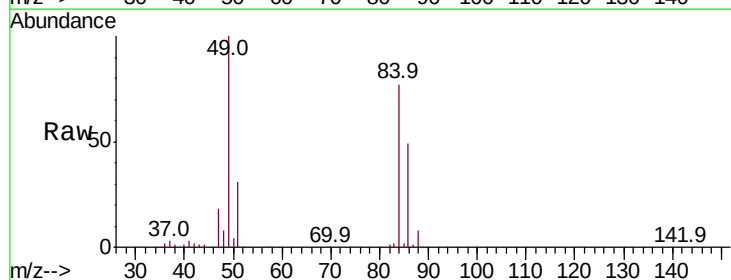
Manual Integrations
APPROVED

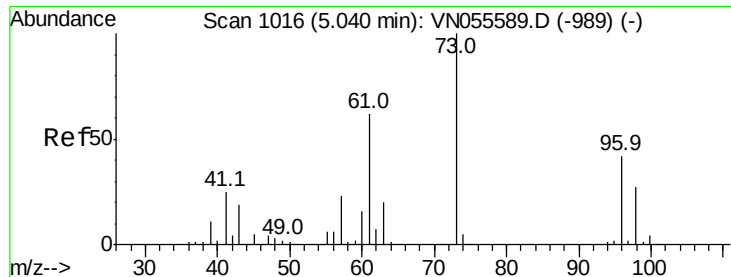
MMDadoda
5/16/2019 1:32:08 PM



#20
Methylene Chloride
Concen: 46.686 ug/l
RT: 4.54 min Scan# 862
Delta R.T. -0.00 min
Lab File: VN055596.D
Acq: 14 May 2019 16:16

Tgt Ion: 84 Resp: 474809
Ion Ratio Lower Upper
84 100
49 130.4 106.2 159.2
51 40.1 32.7 49.1
86 64.5 51.9 77.9





#21

trans-1,2-Dichloroethene

Concen: 48.265 ug/l

RT: 5.04 min Scan# 1015

Delta R.T. -0.00 min

Lab File: VN055596.D

Acq: 14 May 2019 16:16

Instrument :

MSVOA_N

ClientSampleId :

VSTDCCC050EC

Tot Ion: 96 Resp: 431380

Ion Ratio Lower Upper

96 100

61 152.0 117.8 176.6

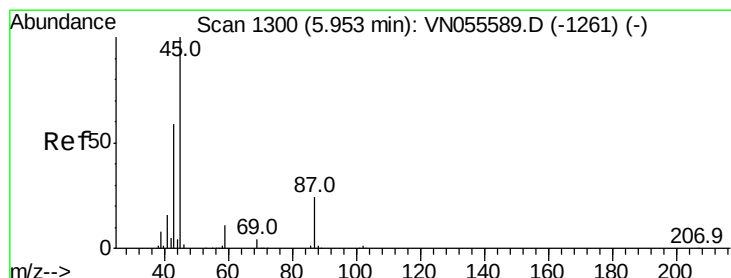
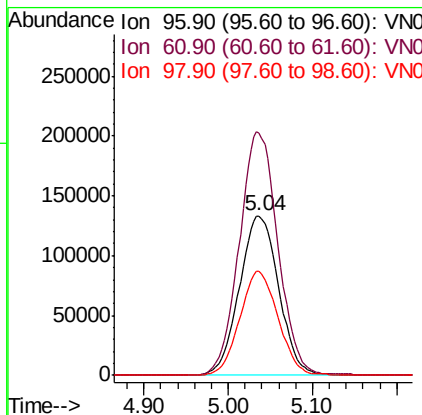
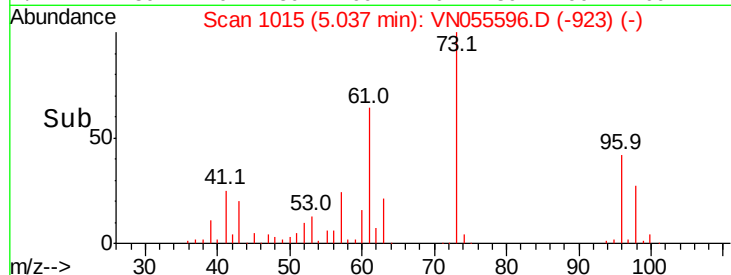
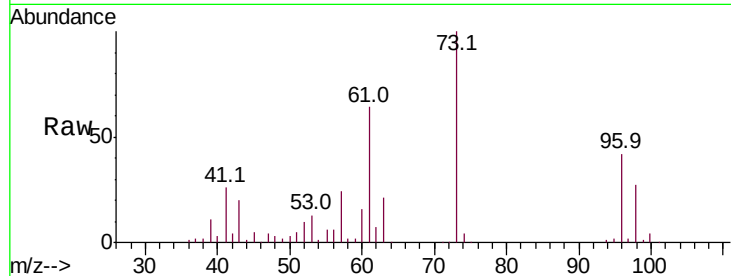
98 65.2 51.4 77.2

Manual Integrations

APPROVED

MMDadoda

5/16/2019 1:32:08 PM



#22

Diisopropyl ether

Concen: 49.641 ug/l

RT: 5.95 min Scan# 1300

Delta R.T. 0.00 min

Lab File: VN055596.D

Acq: 14 May 2019 16:16

Tgt Ion: 45 Resp: 1579471

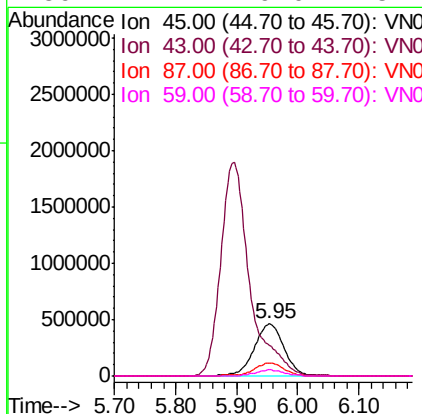
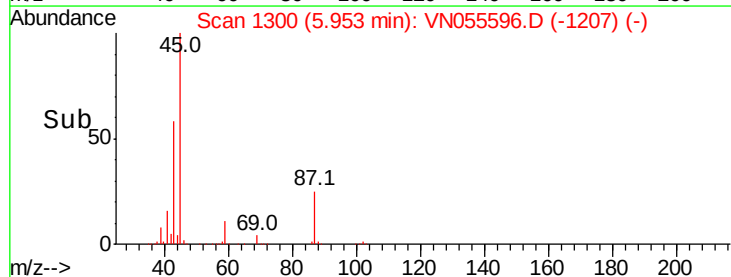
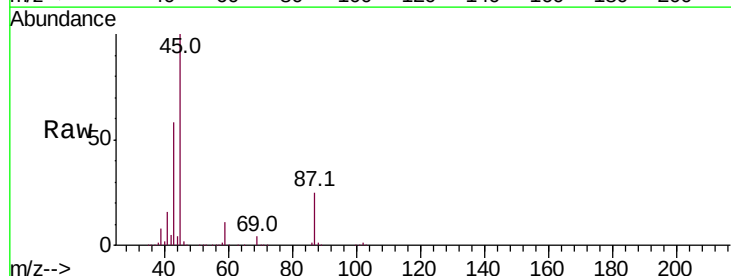
Ion Ratio Lower Upper

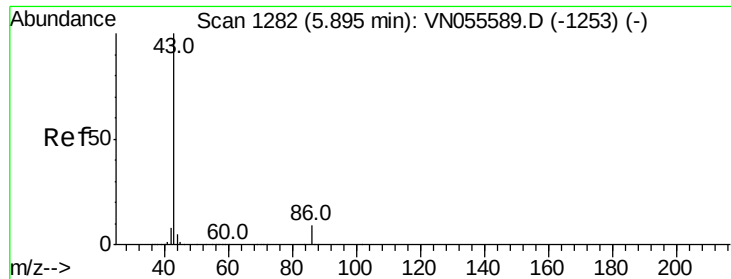
45 100

43 57.8 47.1 70.7

87 24.8 19.5 29.3

59 11.2 9.0 13.4





#23

Vinyl Acetate

Concen: 262.780 ug/l

RT: 5.90 min Scan# 1282

Delta R.T. 0.00 min

Lab File: VN055596.D

Acq: 14 May 2019 16:16

Instrument :

MSVOA_N

ClientSampleId :

VSTDCCC050EC

Tot Ion: 43 Resp: 6264815

Ion Ratio Lower Upper

43 100

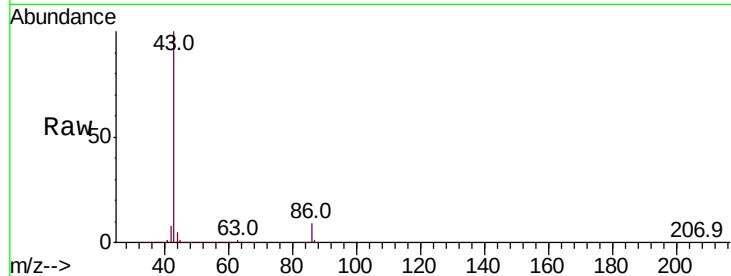
86 9.2 7.4 11.0

Manual Integrations

APPROVED

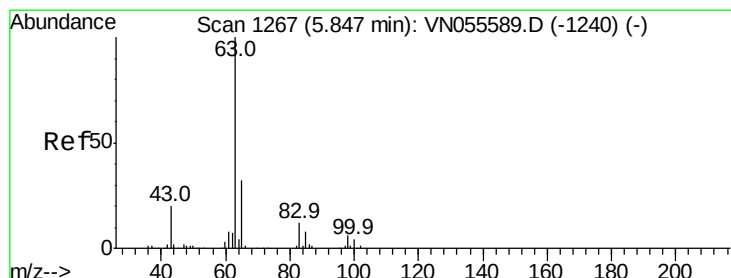
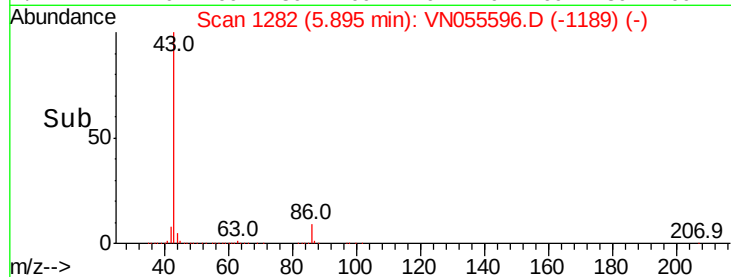
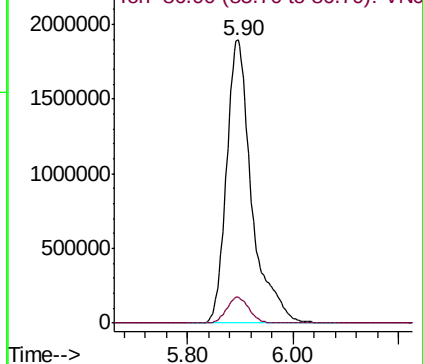
MMDadoda

5/16/2019 1:32:08 PM



Abundance Ion 43.00 (42.70 to 43.70): VNO

Ion 86.00 (85.70 to 86.70): VNO



#24

1,1-Dichloroethane

Concen: 47.912 ug/l

RT: 5.85 min Scan# 1267

Delta R.T. 0.00 min

Lab File: VN055596.D

Acq: 14 May 2019 16:16

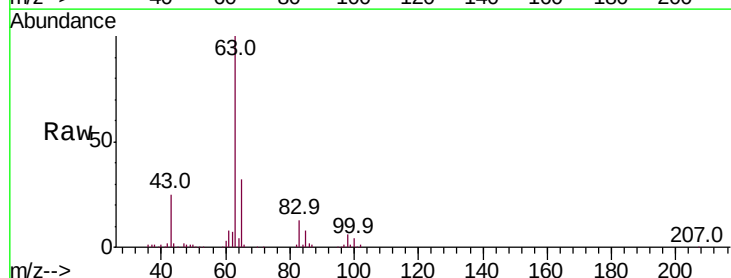
Tgt Ion: 63 Resp: 846666

Ion Ratio Lower Upper

63 100

98 6.0 3.0 9.0

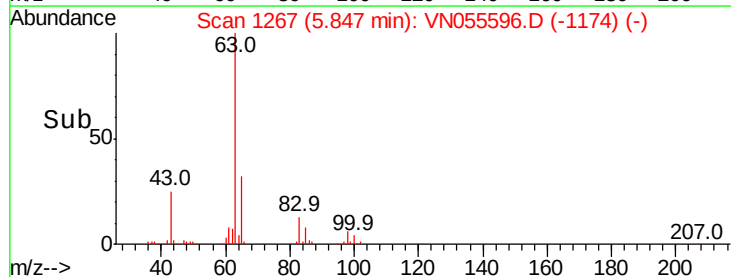
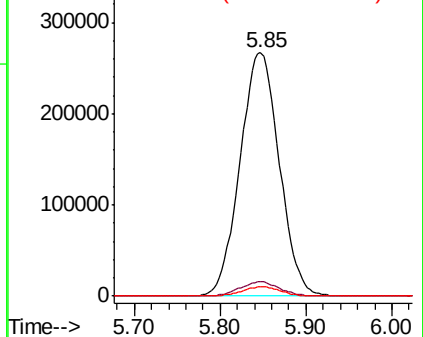
100 4.0 2.1 6.3

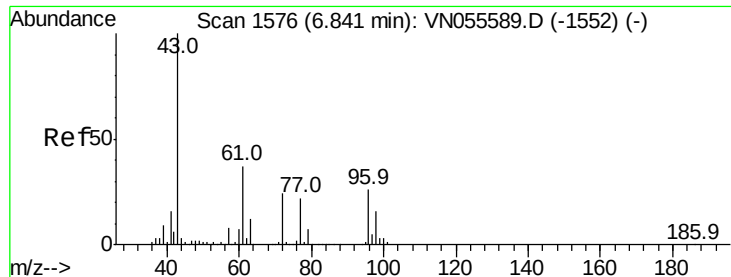


Abundance Ion 62.90 (62.60 to 63.60): VNO

Ion 97.90 (97.60 to 98.60): VNO

Ion 99.90 (99.60 to 100.60): VNO





#25

2-Butanone

Concen: 244.102 ug/l

RT: 6.84 min Scan# 1575

Delta R.T. -0.00 min

Lab File: VN055596.D

Acq: 14 May 2019 16:16

Instrument :

MSVOA_N

ClientSampleId :

VSTDCCC050EC

Tot Ion: 43 Resp: 1545885

Ion Ratio Lower Upper

43 100

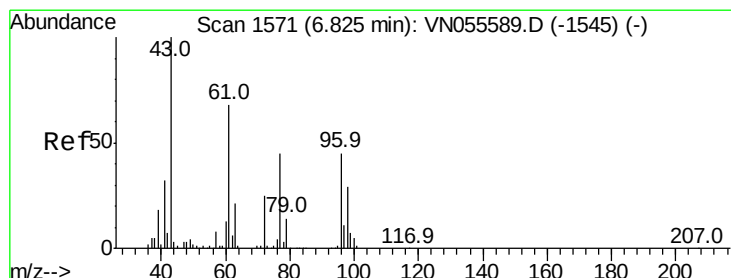
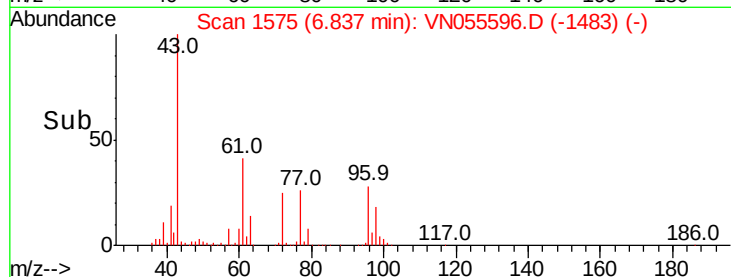
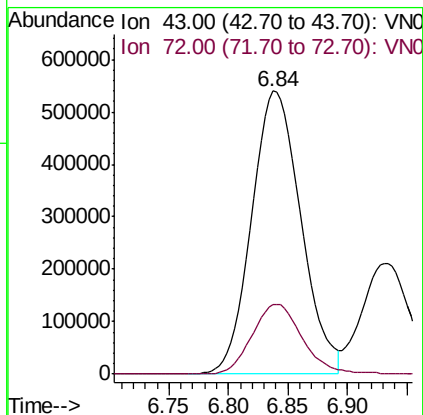
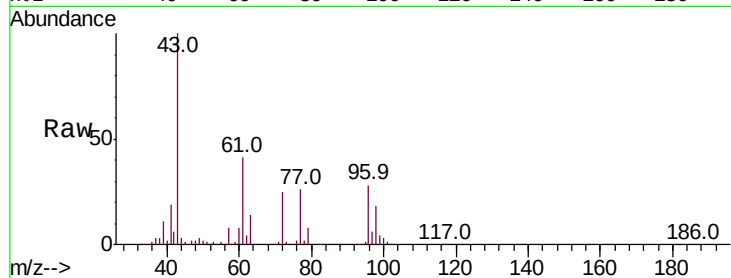
72 24.6 19.5 29.3

Manual Integrations

APPROVED

MMDadoda

5/16/2019 1:32:08 PM



#26

2,2-Dichloropropane

Concen: 49.801 ug/l

RT: 6.82 min Scan# 1570

Delta R.T. -0.00 min

Lab File: VN055596.D

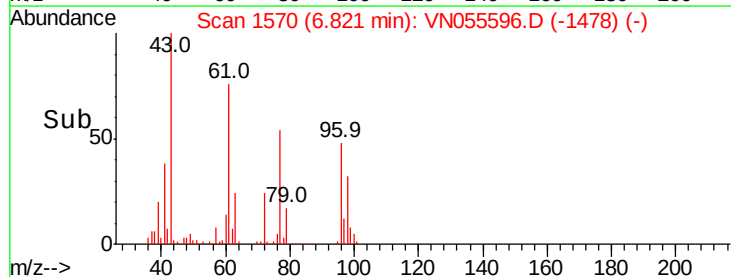
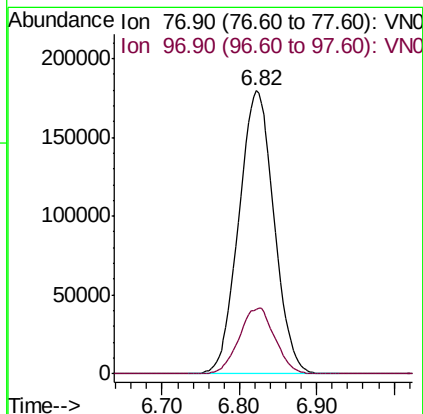
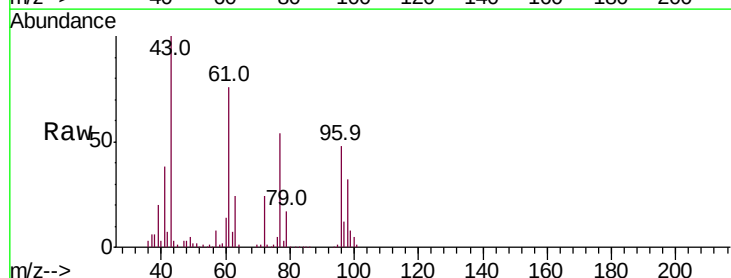
Acq: 14 May 2019 16:16

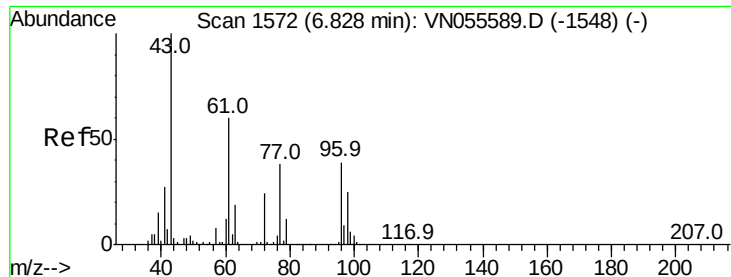
Tgt Ion: 77 Resp: 568383

Ion Ratio Lower Upper

77 100

97 23.6 11.7 35.1





#27

cis-1,2-Dichloroethene

Concen: 48.147 ug/l

RT: 6.83 min Scan# 1572

Delta R.T. 0.00 min

Lab File: VN055596.D

Acq: 14 May 2019 16:16

Instrument :

MSVOA_N

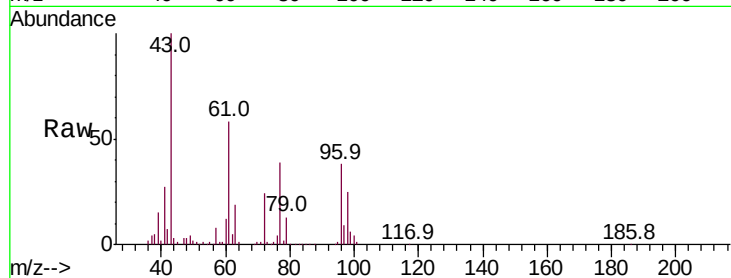
ClientSampleId :

VSTDCCC050EC

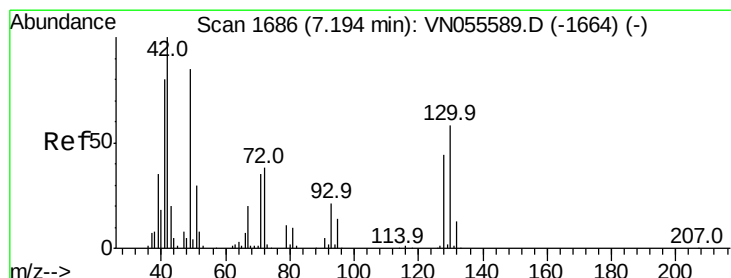
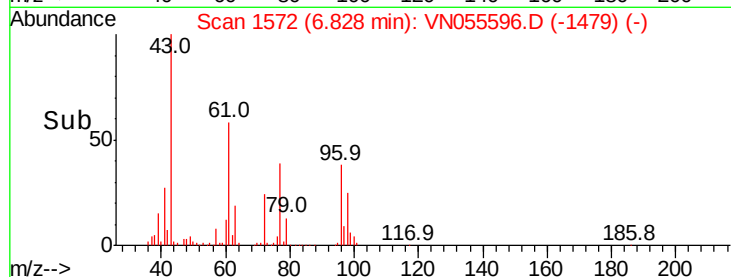
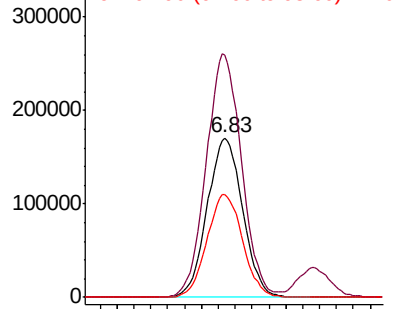
Tot Ion:	96	Resp:	498539
Ion Ratio	Lower	Upper	
96	100		
61	152.0	0.0	305.0
98	64.7	0.0	128.2

Manual Integrations
APPROVED

MMDadoda
5/16/2019 1:32:08 PM



Abundance Ion 95.90 (95.60 to 96.60): VN055589.D (-1548) (-)



#28

Bromochloromethane

Concen: 47.805 ug/l

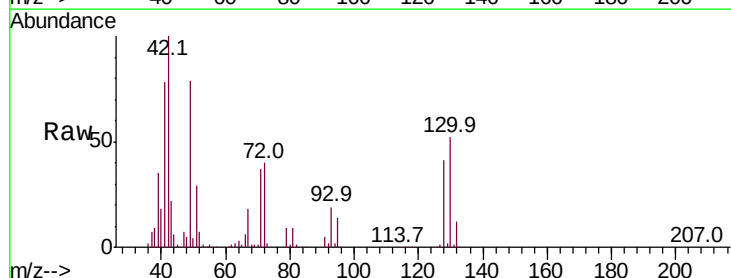
RT: 7.19 min Scan# 1686

Delta R.T. 0.00 min

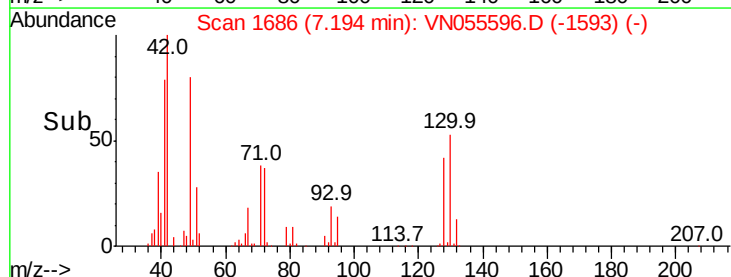
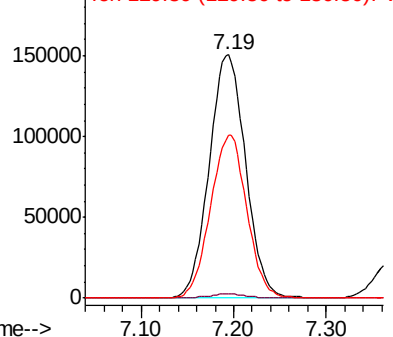
Lab File: VN055596.D

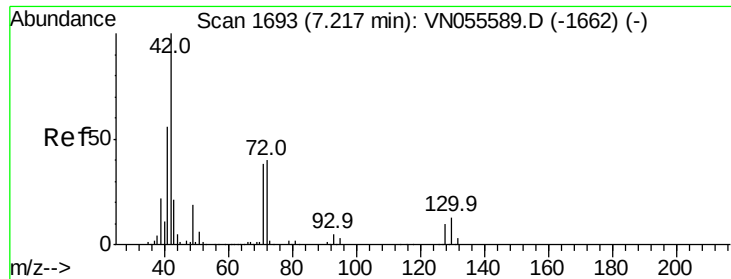
Acq: 14 May 2019 16:16

Tgt Ion:	49	Resp:	410307
Ion Ratio	Lower	Upper	
49	100		
129	1.7	0.0	3.6
130	66.7	52.4	78.6



Abundance Ion 48.90 (48.60 to 49.60): VN055589.D (-1664) (-)





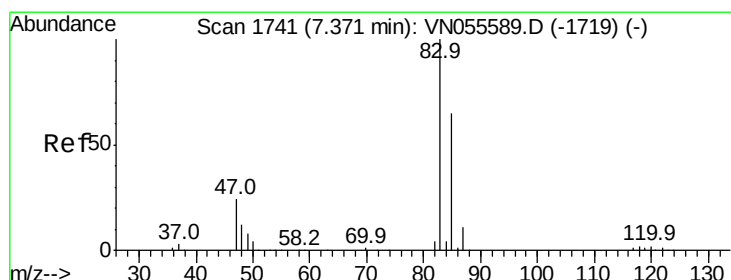
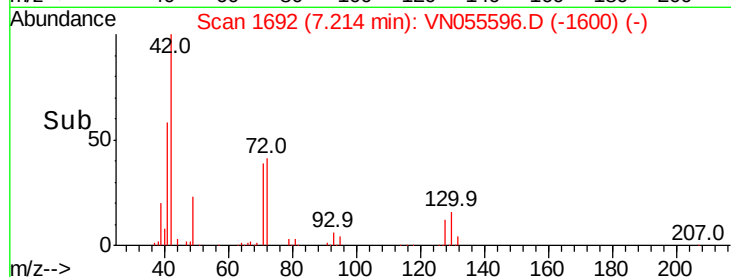
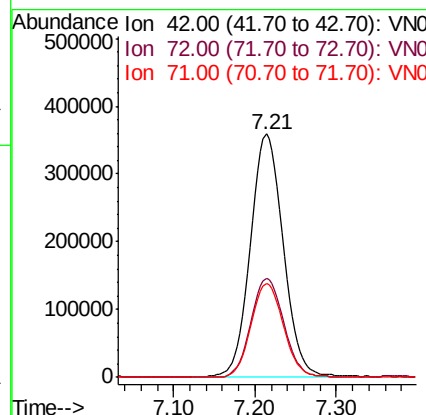
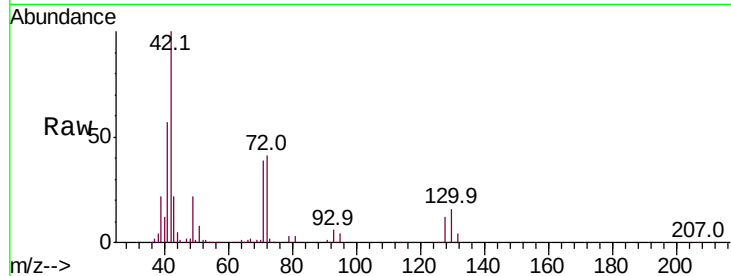
#29
Tetrahydrofuran
Concen: 243.147 ug/l
RT: 7.21 min Scan# 1692
Delta R.T. -0.00 min
Lab File: VN055596.D
Acq: 14 May 2019 16:16

Instrument :
MSVOA_N
ClientSampleId :
VSTDCCC050EC

Tot Ion	Ratio	Lower	Upper
42	100		
72	40.5	31.4	47.2
71	38.1	29.9	44.9

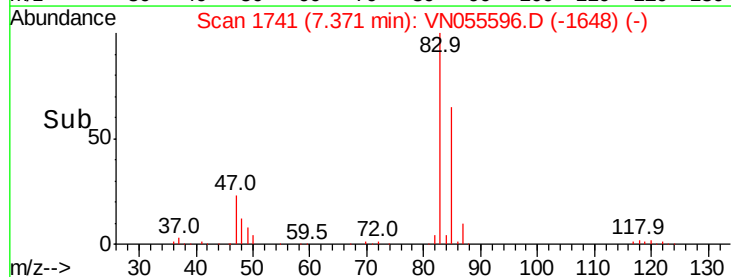
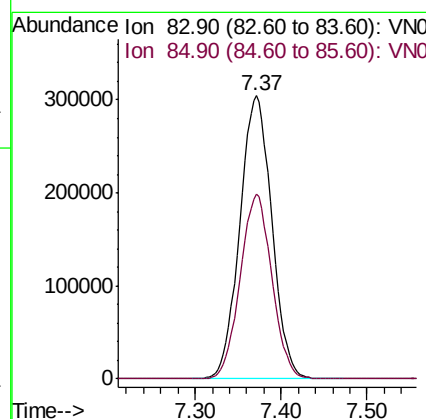
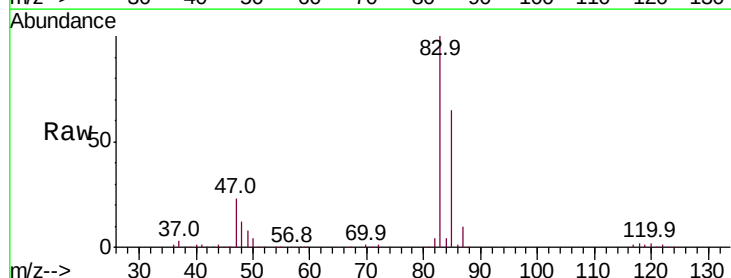
Manual Integrations
APPROVED

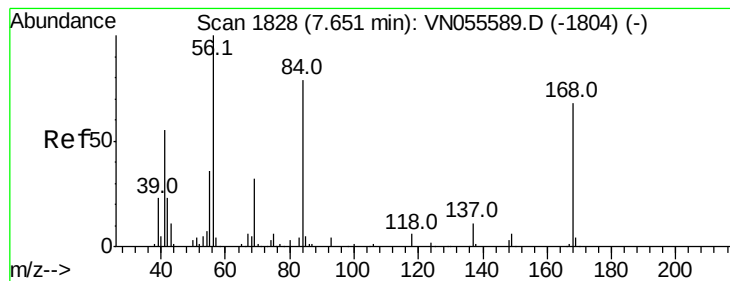
MMDadoda
5/16/2019 1:32:08 PM



#30
Chloroform
Concen: 47.658 ug/l
RT: 7.37 min Scan# 1741
Delta R.T. 0.00 min
Lab File: VN055596.D
Acq: 14 May 2019 16:16

Tgt Ion	Ratio	Lower	Upper
83	100		
85	65.2	51.9	77.9





#31

Cyclohexane

Concen: 45.912 ug/l

RT: 7.65 min Scan# 1828

Delta R.T. 0.00 min

Lab File: VN055596.D

Acq: 14 May 2019 16:16

Instrument :

MSVOA_N

ClientSampleId :

VSTDCCC050EC

Tot Ion: 56 Resp: 807361

Ion Ratio Lower Upper

56 100

69 31.2 25.7 38.5

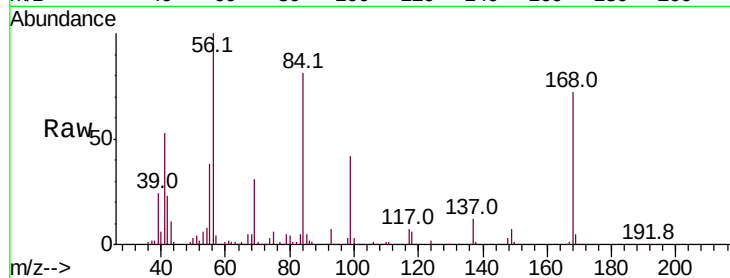
84 79.8 63.4 95.0

Manual Integrations

APPROVED

MMDadoda

5/16/2019 1:32:08 PM

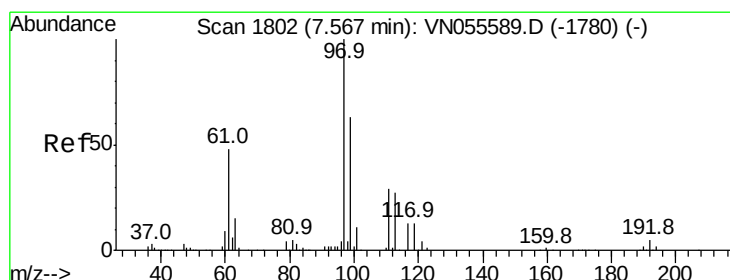
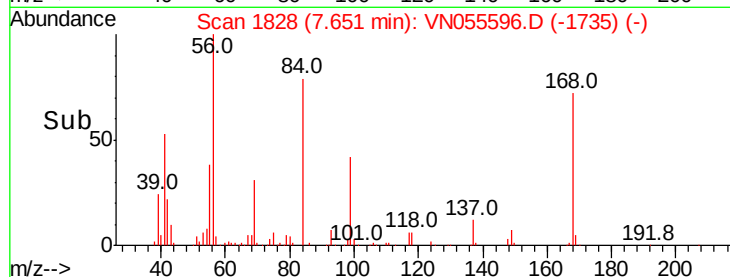
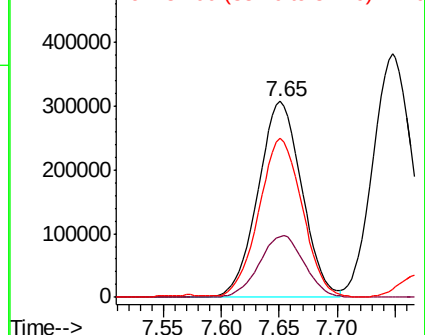


Abundance

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: 49.057 ug/l

RT: 7.57 min Scan# 1803

Delta R.T. 0.00 min

Lab File: VN055596.D

Acq: 14 May 2019 16:16

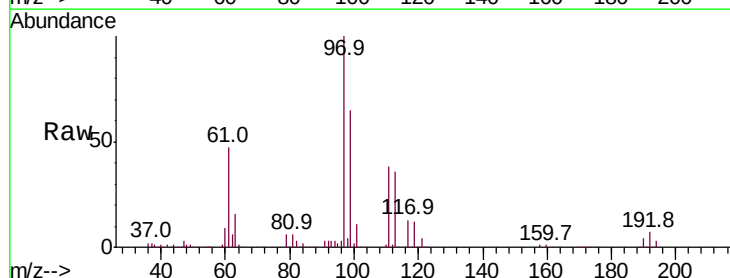
Tgt Ion: 97 Resp: 628194

Ion Ratio Lower Upper

97 100

99 65.3 50.8 76.2

61 47.4 38.7 58.1

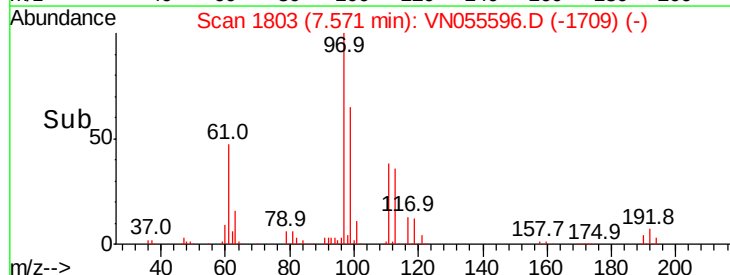
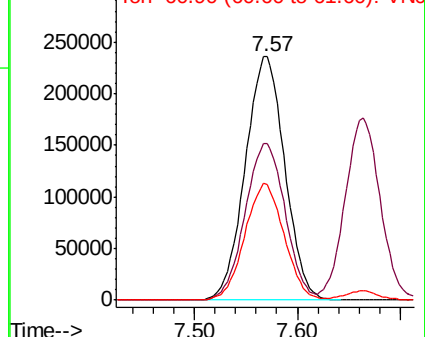


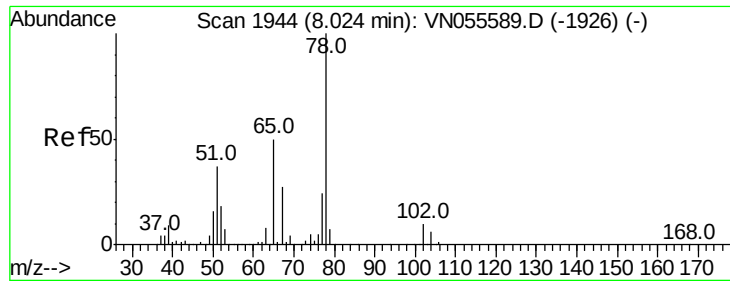
Abundance

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





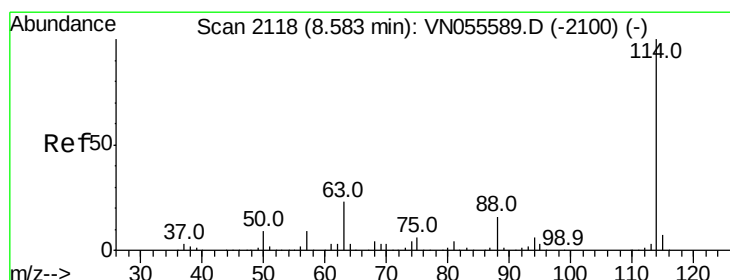
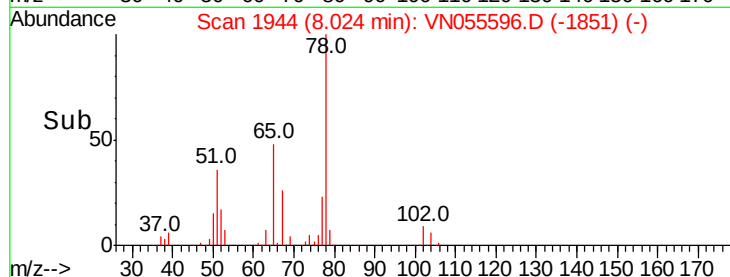
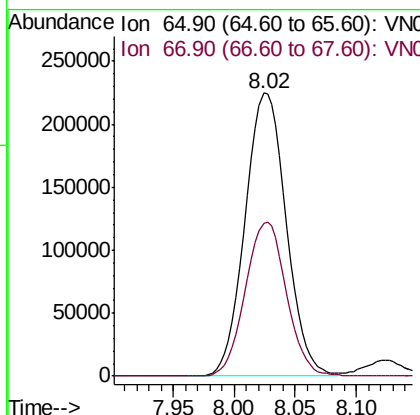
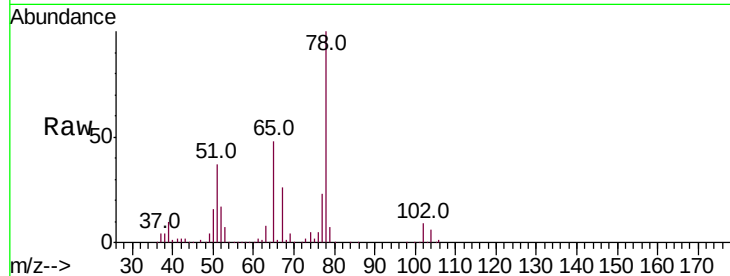
#33
 1,2-Dichloroethane-d4
 Concen: 49.420 ug/l
 RT: 8.02 min Scan# 1944
 Delta R.T. 0.00 min
 Lab File: VN055596.D
 Acq: 14 May 2019 16:16

Instrument :
 MSVOA_N
 ClientSampleId :
 VSTDCCC050EC

Tot Ion	Ratio	Lower	Upper
65	100		
67	54.6	0.0	109.8

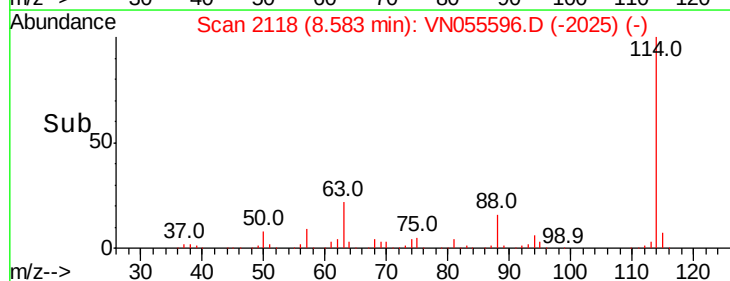
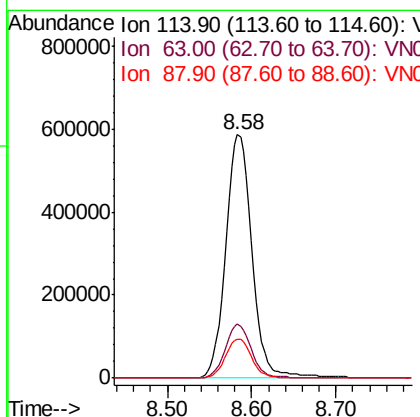
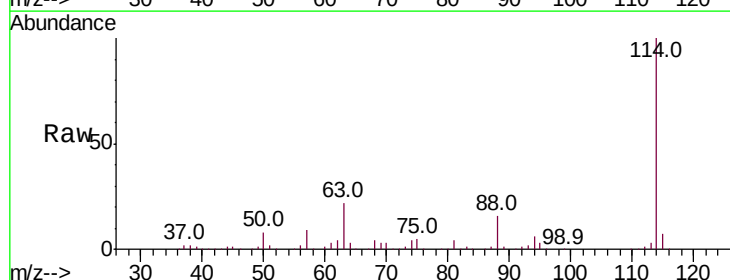
Manual Integrations
 APPROVED

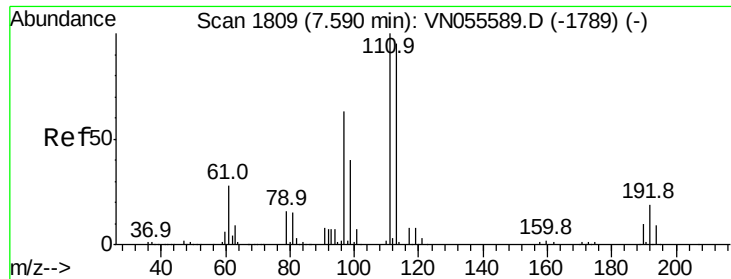
MMDadoda
 5/16/2019 1:32:08 PM



#34
 1,4-Difluorobenzene
 Concen: 50.000 ug/l
 RT: 8.58 min Scan# 2118
 Delta R.T. 0.00 min
 Lab File: VN055596.D
 Acq: 14 May 2019 16:16

Tgt Ion	Ratio	Lower	Upper
114	100		
63	22.1	0.0	45.8
88	16.1	0.0	32.6





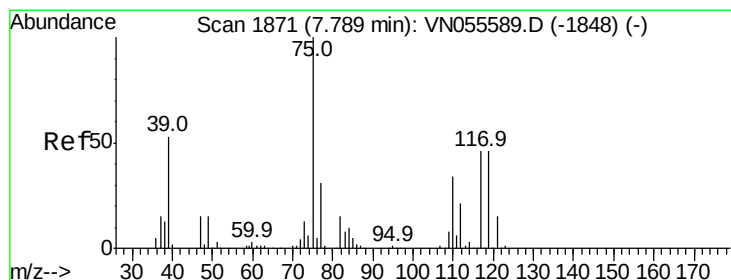
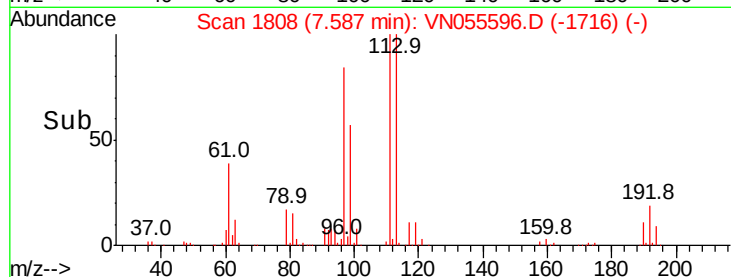
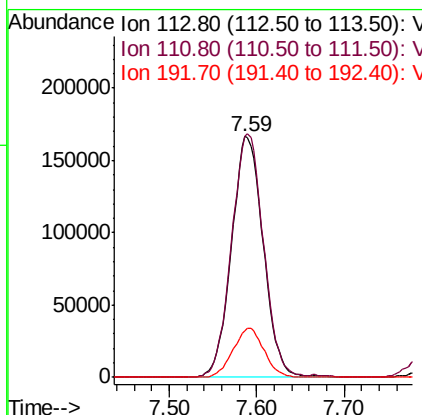
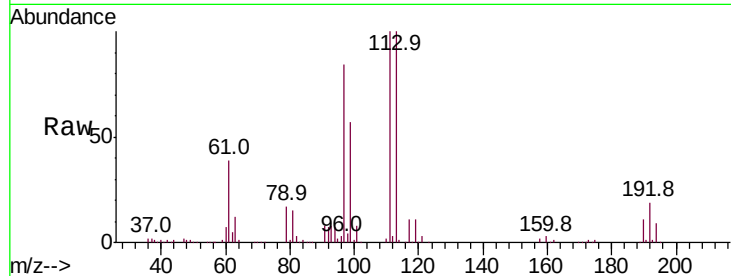
#35
Dibromofluoromethane
Concen: 50.712 ug/l
RT: 7.59 min Scan# 1808
Delta R.T. -0.00 min
Lab File: VN055596.D
Acq: 14 May 2019 16:16

Instrument :
MSVOA_N
ClientSampleId :
VSTDCCC050EC

Tot Ion	Ratio	Resp	Lower	Upper
113	100	419424		
111	101.6	83.5	125.3	
192	20.0	16.0	24.0	

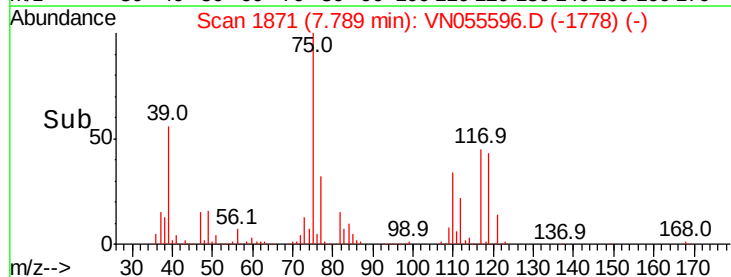
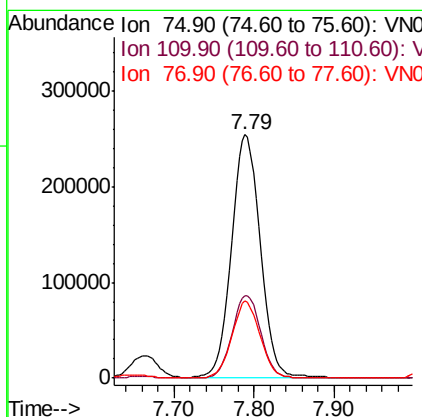
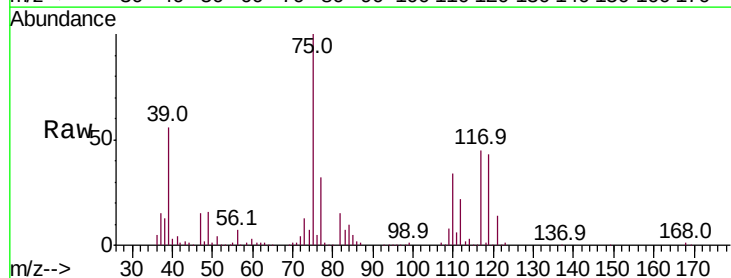
Manual Integrations
APPROVED

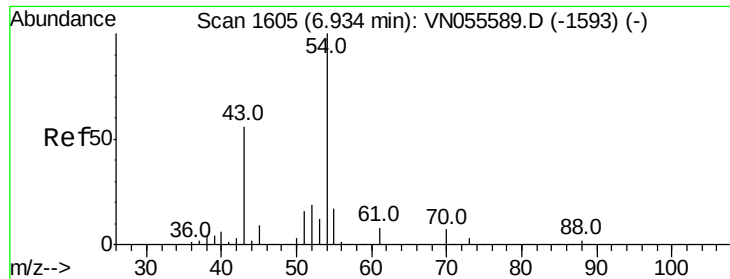
MMDadoda
5/16/2019 1:32:08 PM



#36
1,1-Dichloropropene
Concen: 48.686 ug/l
RT: 7.79 min Scan# 1871
Delta R.T. 0.00 min
Lab File: VN055596.D
Acq: 14 May 2019 16:16

Tgt Ion	Ratio	Resp	Lower	Upper
75	100	614381		
110	33.9	16.9	50.7	
77	31.3	24.9	37.3	





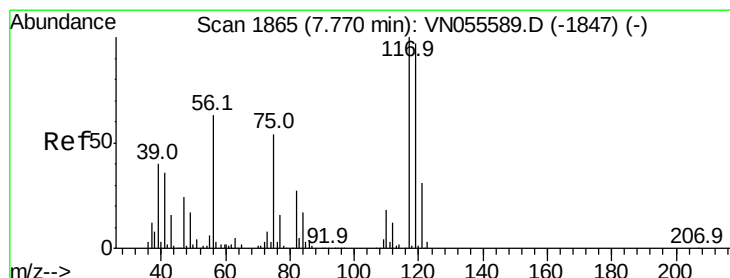
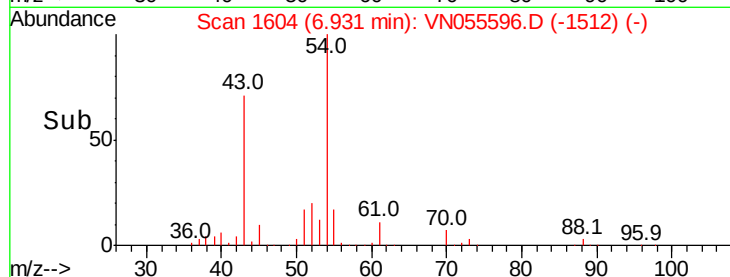
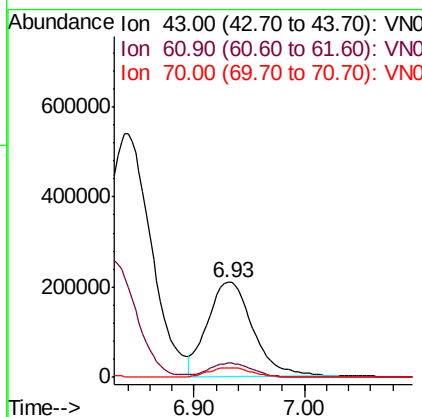
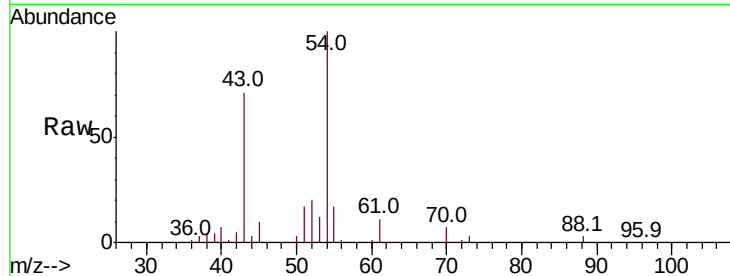
#37
Ethyl Acetate
Concen: 50.396 ug/l
RT: 6.93 min Scan# 1604
Delta R.T. -0.00 min
Lab File: VN055596.D
Acq: 14 May 2019 16:16

Instrument :
MSVOA_N
ClientSampleId :
VSTDCCC050EC

Tot Ion	Ratio	Lower	Upper
43	100		
61	14.1	10.8	16.2
70	9.8	7.4	11.2

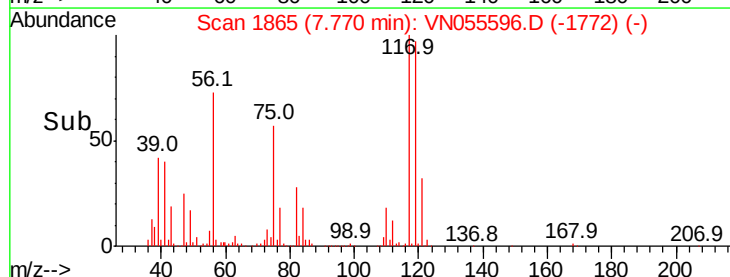
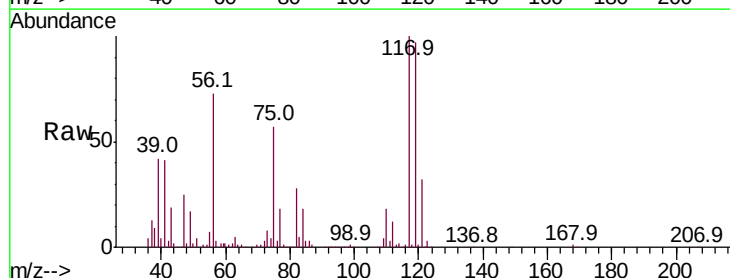
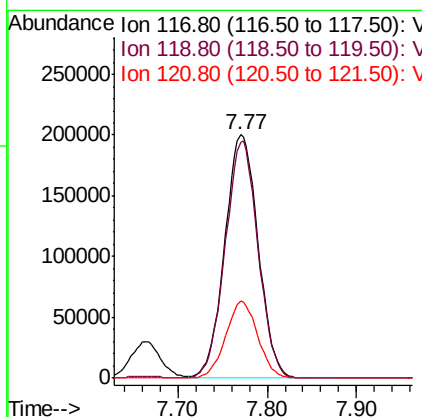
Manual Integrations
APPROVED

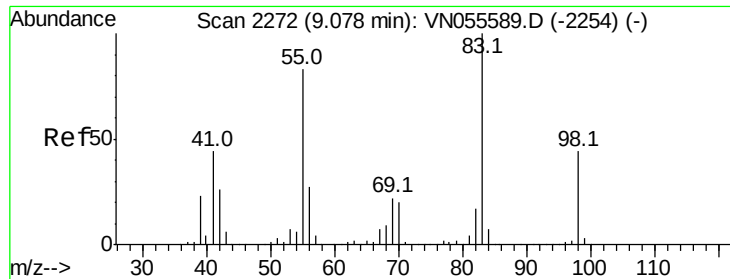
MMDadoda
5/16/2019 1:32:08 PM



#38
Carbon Tetrachloride
Concen: 49.497 ug/l
RT: 7.77 min Scan# 1865
Delta R.T. 0.00 min
Lab File: VN055596.D
Acq: 14 May 2019 16:16

Tgt Ion	Ratio	Lower	Upper
117	100		
119	96.8	77.1	115.7
121	31.6	24.4	36.6





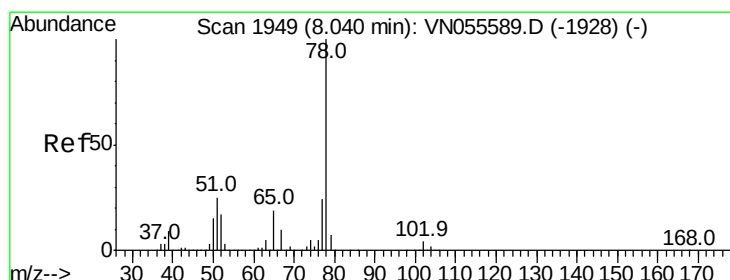
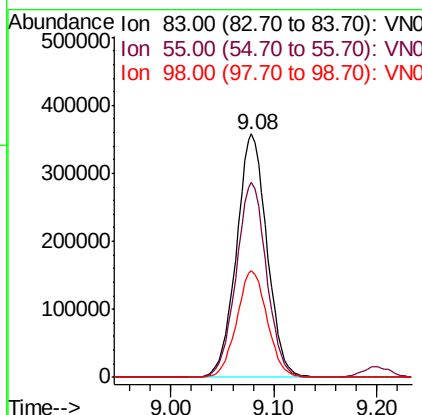
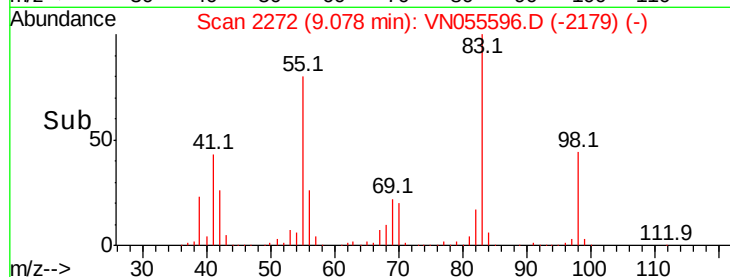
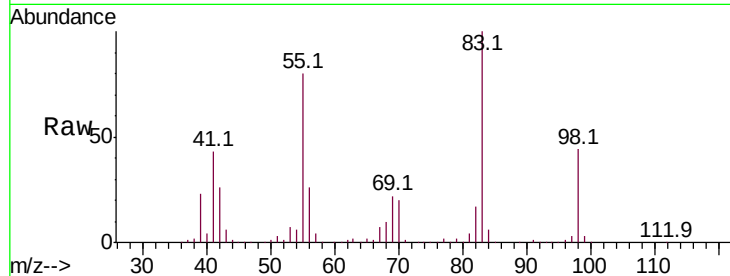
#39
Methylvlcyclohexane
Concen: 49.472 ug/l
RT: 9.08 min Scan# 2272
Delta R.T. 0.00 min
Lab File: VN055596.D
Acq: 14 May 2019 16:16

Instrument :
MSVOA_N
ClientSampleId :
VSTDCCC050EC

Tot Ion	Ratio	Lower	Upper
83	100		
55	79.9	66.3	99.5
98	43.8	34.8	52.2

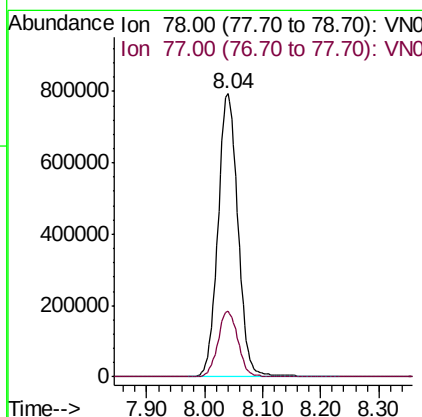
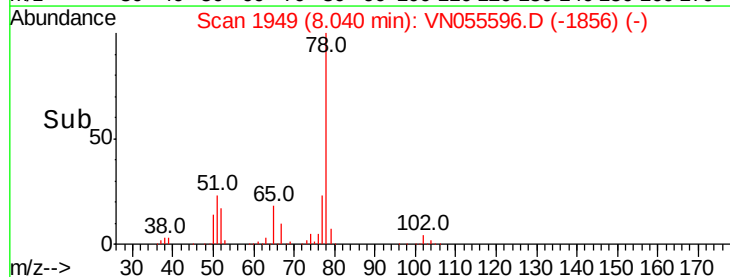
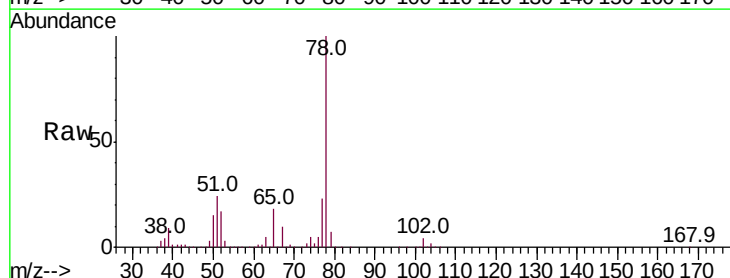
Manual Integrations
APPROVED

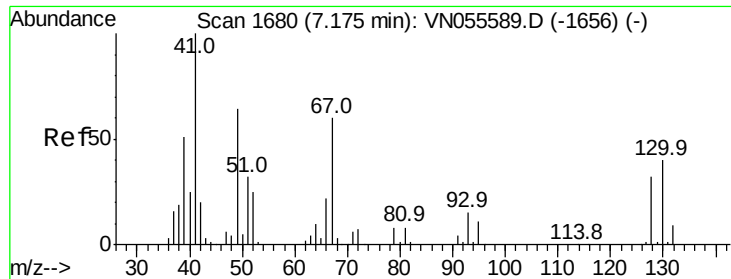
MMDadoda
5/16/2019 1:32:08 PM



#40
Benzene
Concen: 49.193 ug/l
RT: 8.04 min Scan# 1949
Delta R.T. 0.00 min
Lab File: VN055596.D
Acq: 14 May 2019 16:16

Tgt Ion	Ratio	Lower	Upper
78	100		
77	23.1	18.9	28.3





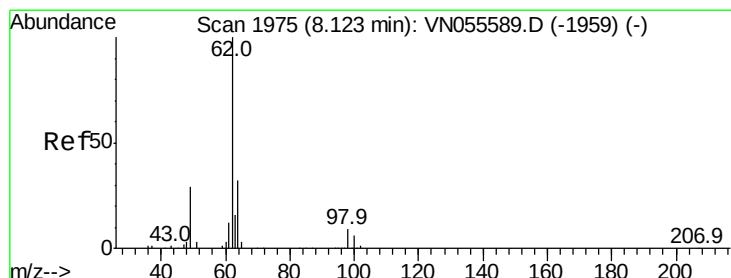
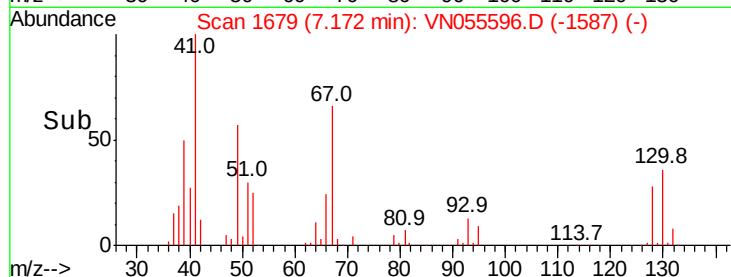
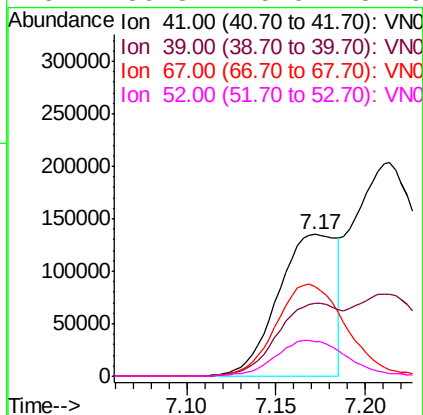
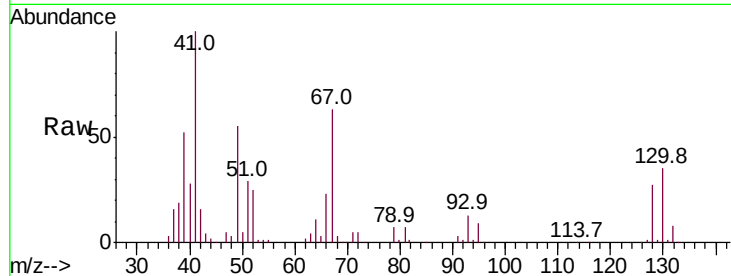
#41
Methacrylonitrile
Concen: 57.384 ug/l
RT: 7.17 min Scan# 1679
Delta R.T. -0.00 min
Lab File: VN055596.D
Acq: 14 May 2019 16:16

Instrument :
MSVOA_N
ClientSampleId :
VSTDCCC050EC

Tot Ion	41	Resp	309284
Ion Ratio	100	Lower	Upper
41	100		
39	54.8	44.1	66.1
67	78.0	63.4	95.0
52	30.3	25.0	37.6

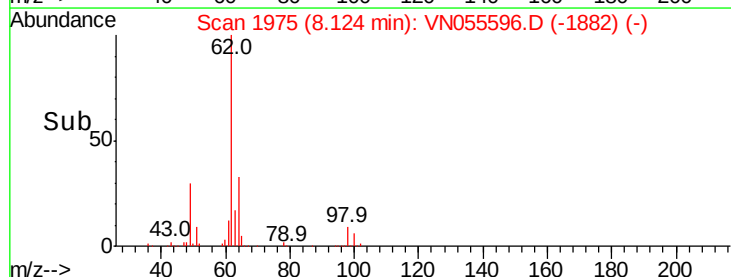
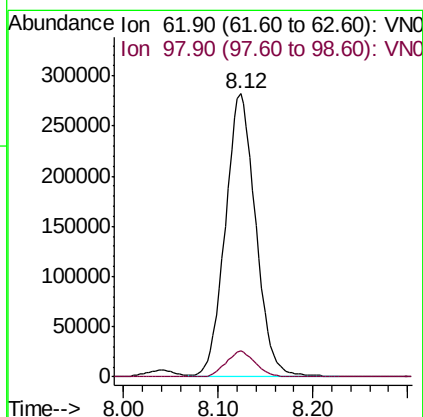
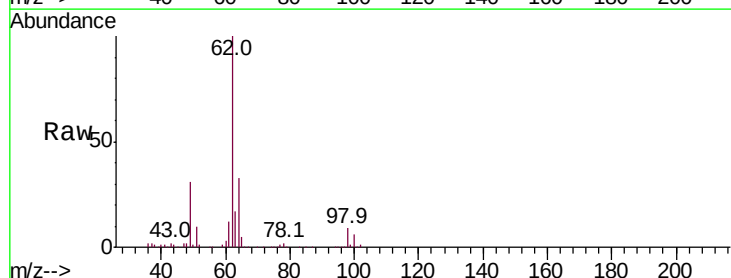
Manual Integrations
APPROVED

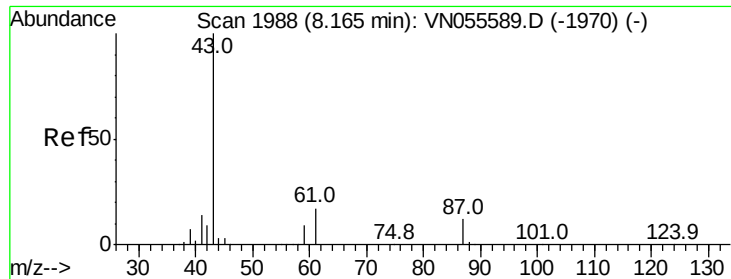
MMDadoda
5/16/2019 1:32:08 PM



#42
1,2-Dichloroethane
Concen: 48.786 ug/l
RT: 8.12 min Scan# 1975
Delta R.T. 0.00 min
Lab File: VN055596.D
Acq: 14 May 2019 16:16

Tgt Ion	62	Resp	626994
Ion Ratio	100	Lower	Upper
62	100		
98	8.8	0.0	18.0





#43

Isopropyl Acetate

Concen: 51.855 ug/l

RT: 8.17 min Scan# 1988

Delta R.T. 0.00 min

Lab File: VN055596.D

Acq: 14 May 2019 16:16

Instrument :

MSVOA_N

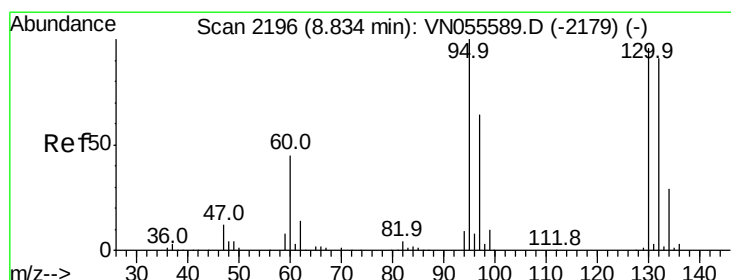
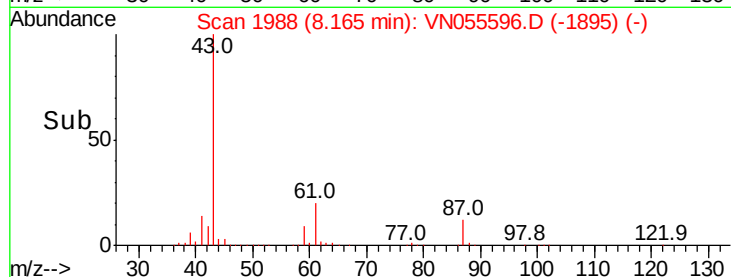
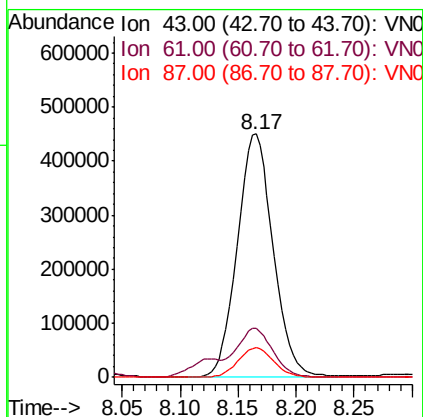
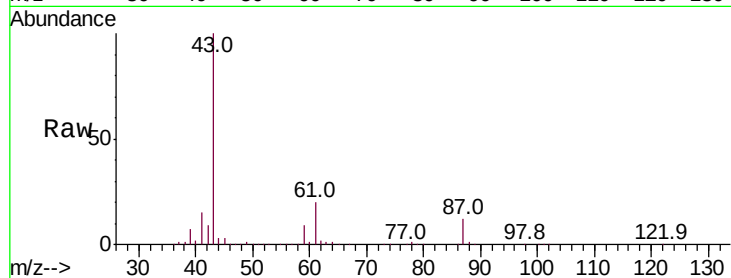
ClientSampleId :

VSTDCCC050EC

Tot Ion:	43	Resp:	961567
Ion	Ratio	Lower	Upper
43	100		
61	19.9	16.1	24.1
87	12.1	9.6	14.4

Manual Integrations
APPROVED

MMDadoda
5/16/2019 1:32:08 PM



#44

Trichloroethene

Concen: 48.936 ug/l

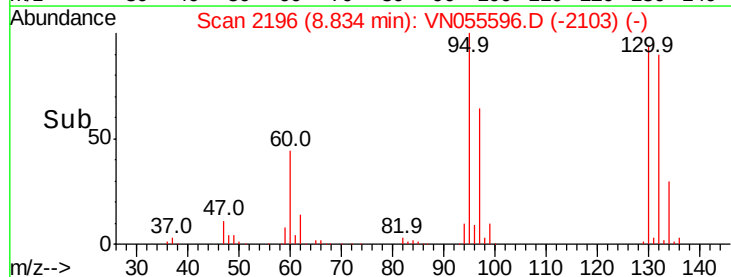
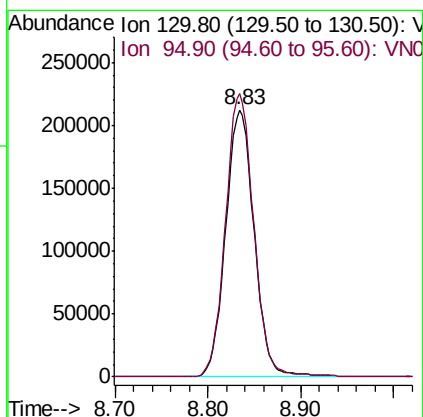
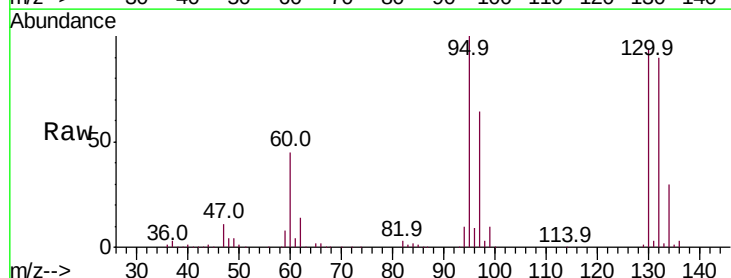
RT: 8.83 min Scan# 2196

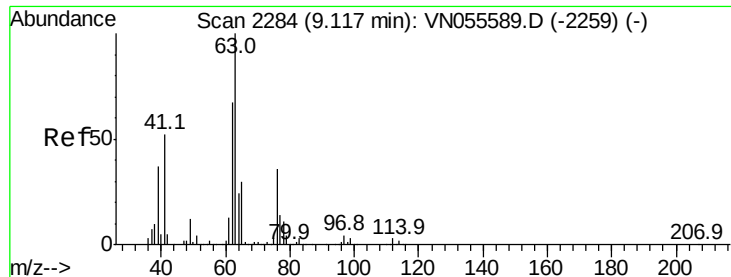
Delta R.T. 0.00 min

Lab File: VN055596.D

Acq: 14 May 2019 16:16

Tgt Ion:	130	Resp:	453551
Ion	Ratio	Lower	Upper
130	100		
95	105.9	0.0	208.6





#45

1,2-Dichloropropane

Concen: 49.582 ug/l

RT: 9.12 min Scan# 2284

Delta R.T. 0.00 min

Lab File: VN055596.D

Acq: 14 May 2019 16:16

Instrument :

MSVOA_N

ClientSampleId :

VSTDCCC050EC

Tot Ion: 63 Resp: 526645

Ion Ratio Lower Upper

63 100

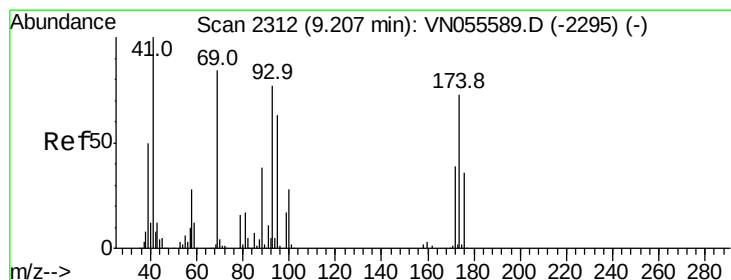
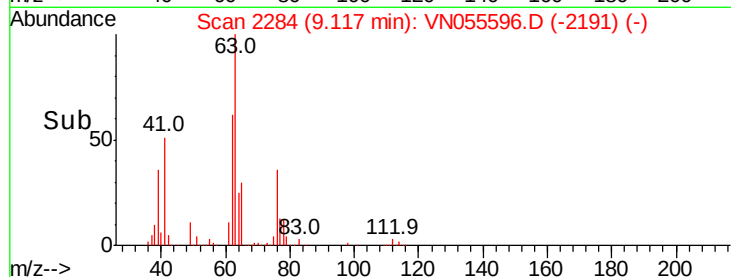
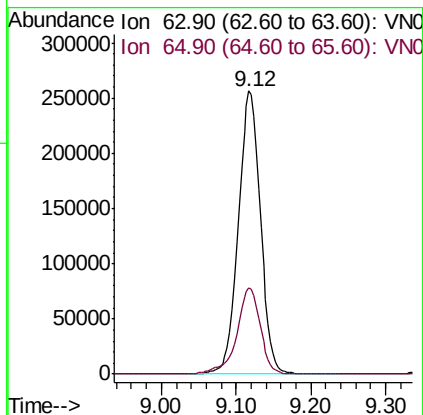
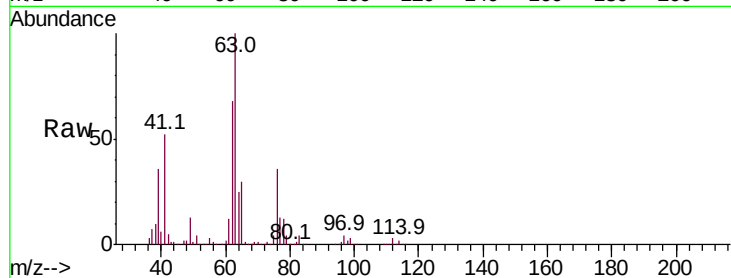
65 30.3 24.1 36.1

Manual Integrations

APPROVED

MMDadoda

5/16/2019 1:32:08 PM



#46

Dibromomethane

Concen: 48.685 ug/l

RT: 9.21 min Scan# 2312

Delta R.T. 0.00 min

Lab File: VN055596.D

Acq: 14 May 2019 16:16

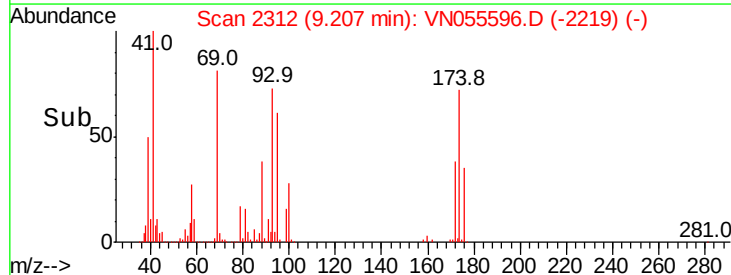
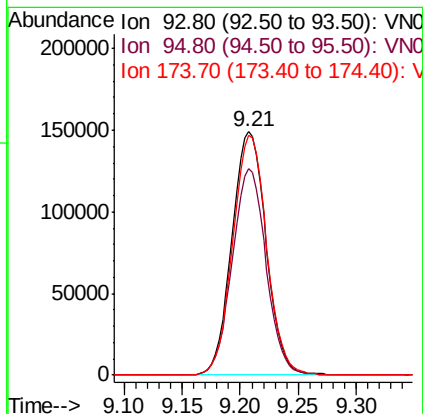
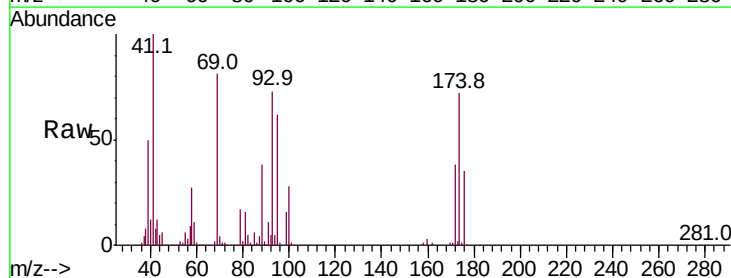
Tgt Ion: 93 Resp: 305405

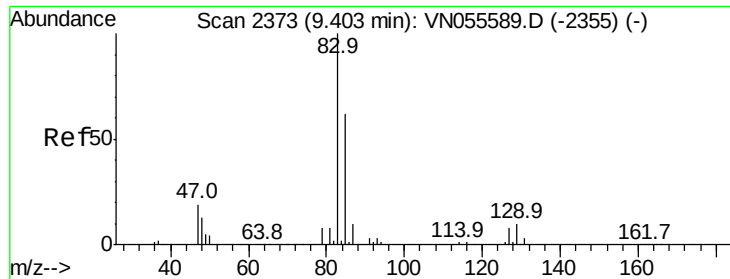
Ion Ratio Lower Upper

93 100

95 84.2 66.6 100.0

174 97.7 78.4 117.6





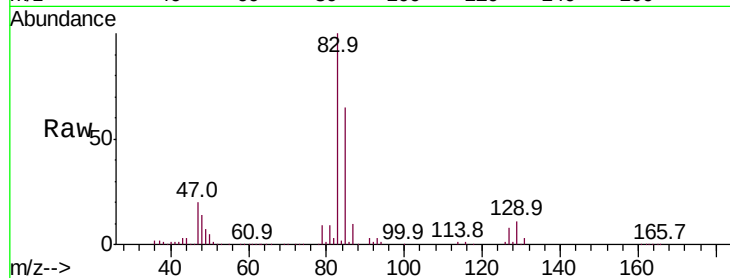
#47
Bromodichloromethane
Concen: 50.323 ug/l
RT: 9.40 min Scan# 2373
Delta R.T. 0.00 min
Lab File: VN055596.D
Acq: 14 May 2019 16:16

Instrument :
MSVOA_N
ClientSampleId :
VSTDCCC050EC

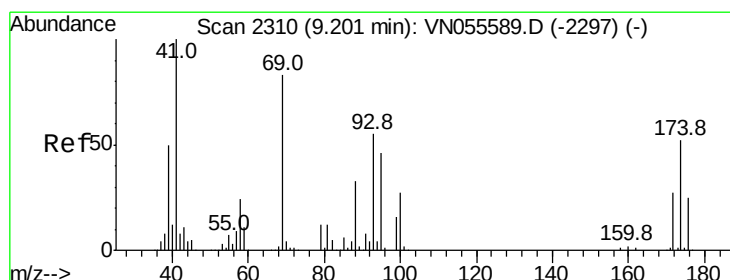
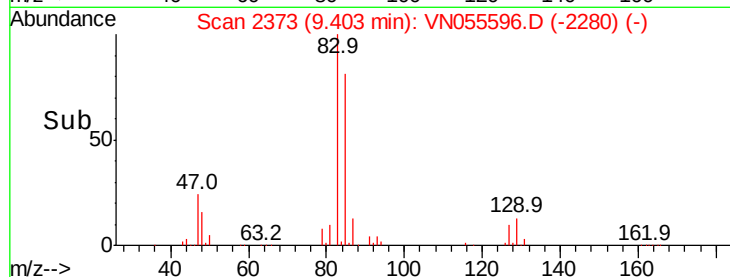
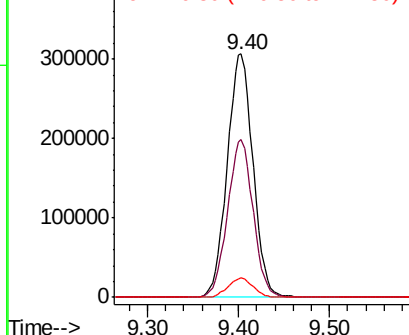
Tot Ion	Ratio	Lower	Upper
83	100		
85	64.7	49.6	74.4
127	7.9	6.6	9.8

Manual Integrations
APPROVED

MMDadoda
5/16/2019 1:32:08 PM

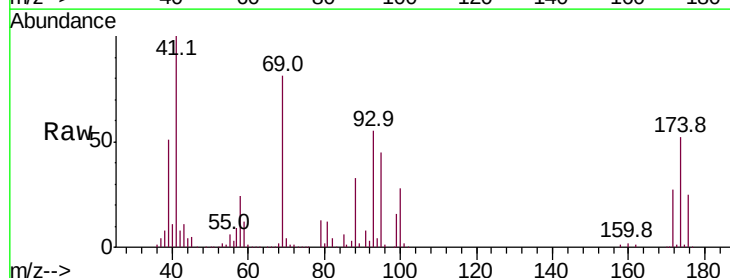


Abundance Ion 82.90 (82.60 to 83.60): VNO
Ion 84.90 (84.60 to 85.60): VNO
Ion 126.80 (126.50 to 127.50): VNO

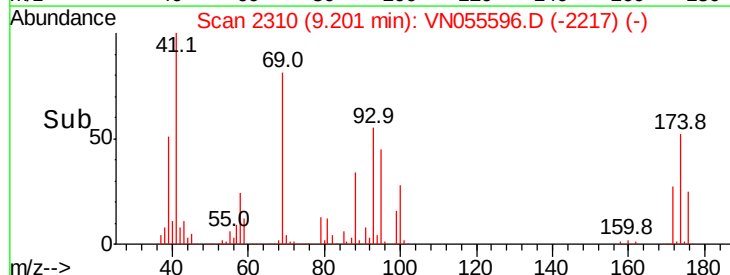
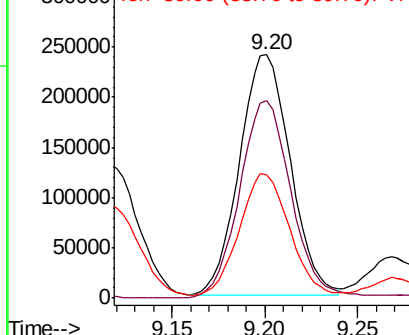


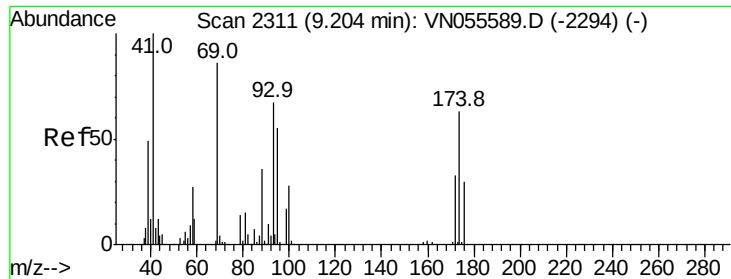
#48
Methyl methacrylate
Concen: 50.197 ug/l
RT: 9.20 min Scan# 2310
Delta R.T. 0.00 min
Lab File: VN055596.D
Acq: 14 May 2019 16:16

Tgt Ion	Ratio	Lower	Upper
41	100		
69	83.8	65.7	98.5
39	51.6	40.2	60.4



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





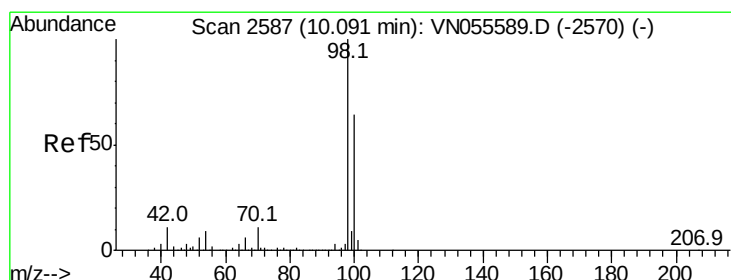
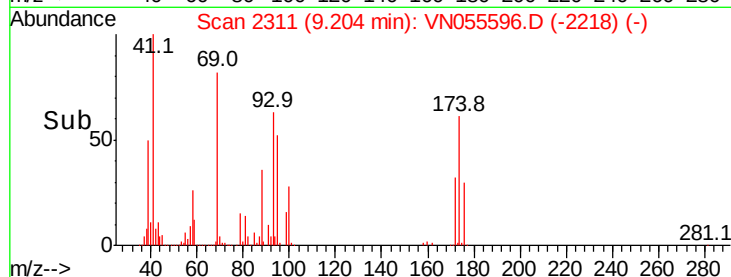
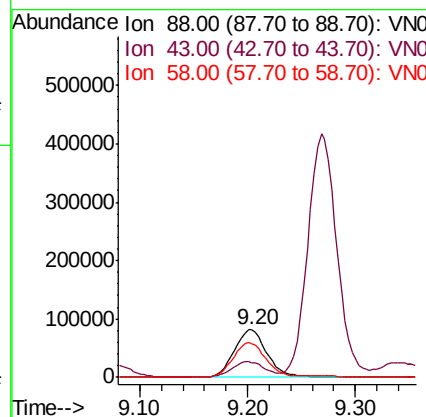
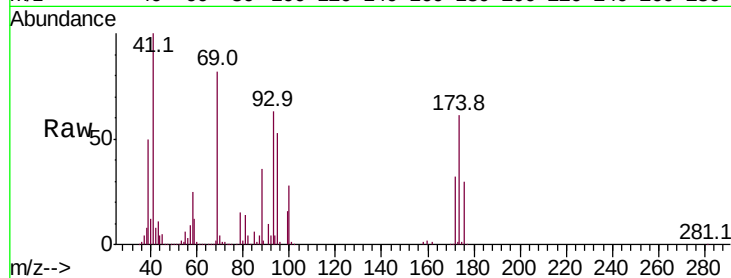
#49
1,4-Dioxane
Concen: 1041.146 ug/l
RT: 9.20 min Scan# 2311
Delta R.T. 0.00 min
Lab File: VN055596.D
Acq: 14 May 2019 16:16

Instrument :
MSVOA_N
ClientSampleId :
VSTDCCC050EC

Tot Ion	88	Resp	172368
Ion Ratio	Lower	Upper	
88	100		
43	31.3	25.4	38.0
58	73.5	59.4	89.2

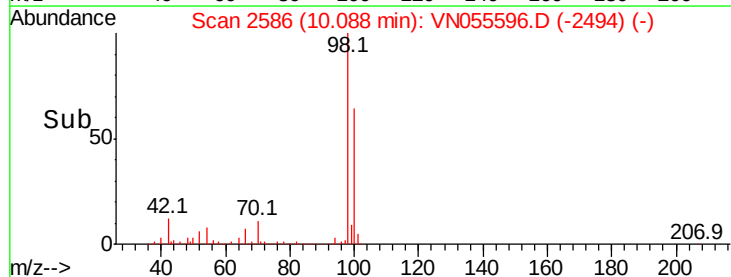
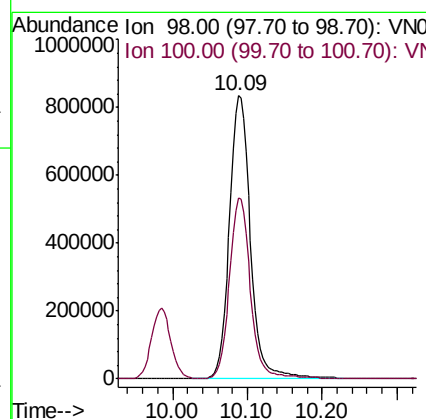
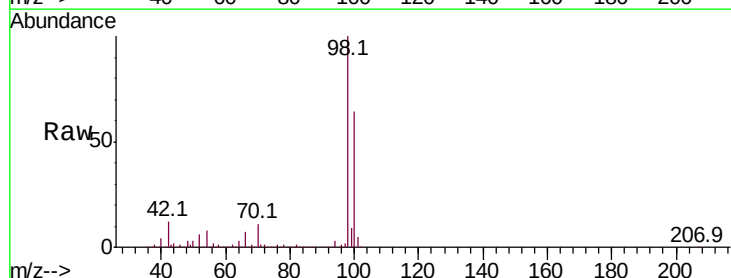
Manual Integrations
APPROVED

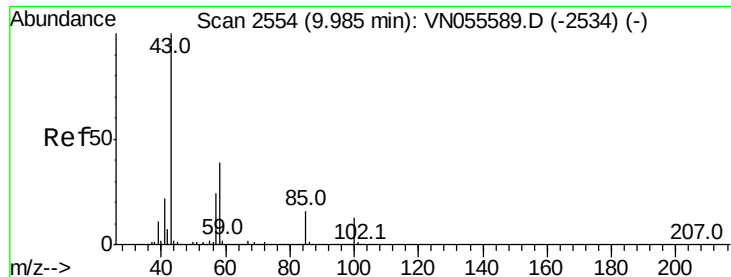
MMDadoda
5/16/2019 1:32:08 PM



#50
Toluene-d8
Concen: 51.474 ug/l
RT: 10.09 min Scan# 2586
Delta R.T. -0.00 min
Lab File: VN055596.D
Acq: 14 May 2019 16:16

Tgt Ion	98	Resp	1626431
Ion Ratio	Lower	Upper	
98	100		
100	63.8	50.7	76.1





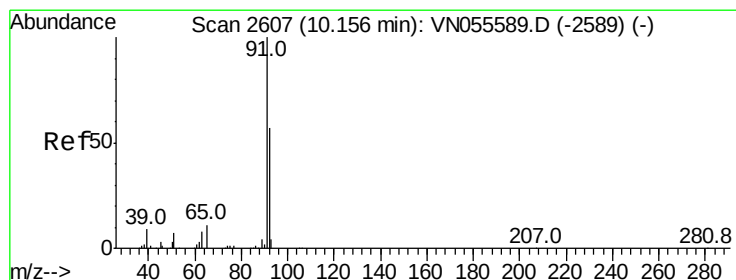
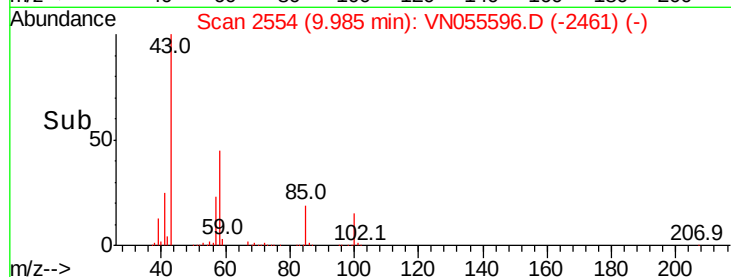
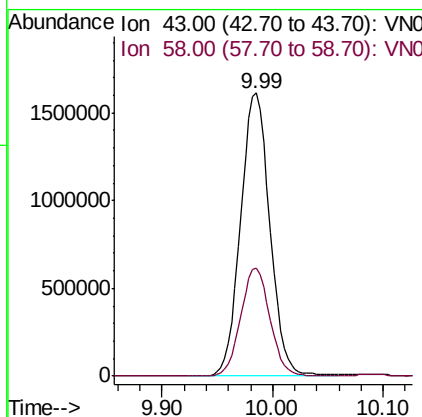
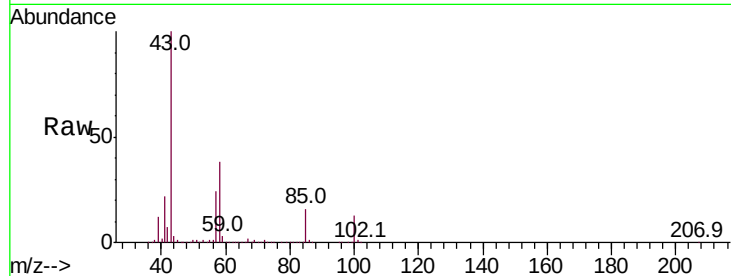
#51
4-Methyl-2-Pentanone
Concen: 254.338 ug/l
RT: 9.99 min Scan# 2554
Delta R.T. 0.00 min
Lab File: VN055596.D
Acq: 14 May 2019 16:16

Instrument :
MSVOA_N
ClientSampleId :
VSTDCCC050EC

Tot Ion: 43 Resp: 2963337
Ion Ratio Lower Upper
43 100
58 38.2 30.6 46.0

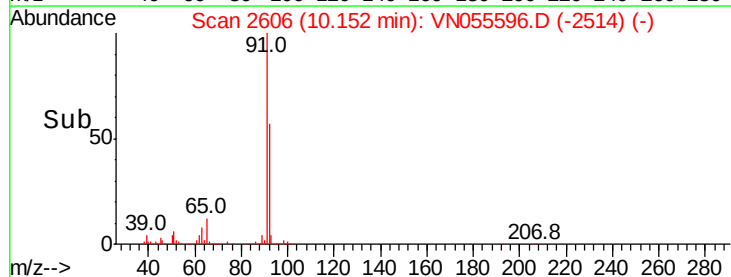
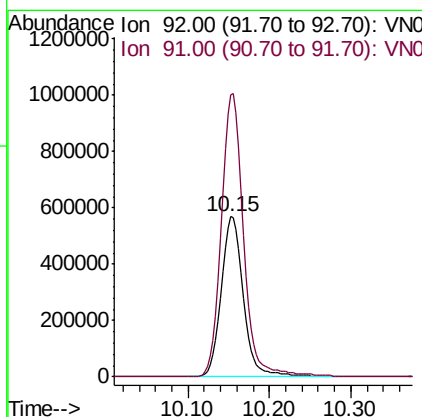
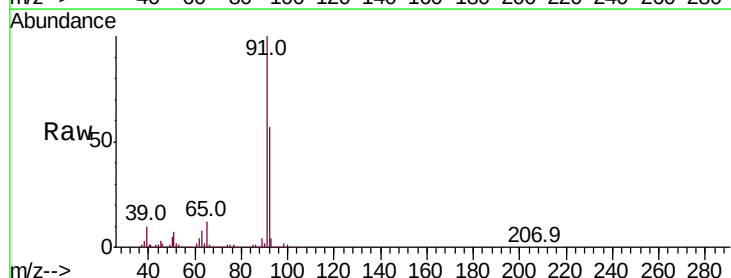
Manual Integrations
APPROVED

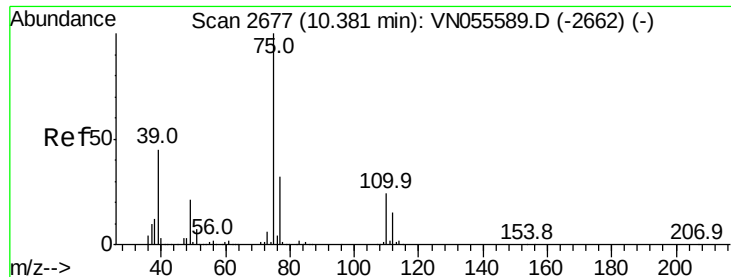
MMDadoda
5/16/2019 1:32:08 PM



#52
Toluene
Concen: 49.931 ug/l
RT: 10.15 min Scan# 2606
Delta R.T. -0.00 min
Lab File: VN055596.D
Acq: 14 May 2019 16:16

Tgt Ion: 92 Resp: 1102432
Ion Ratio Lower Upper
92 100
91 177.5 141.5 212.3





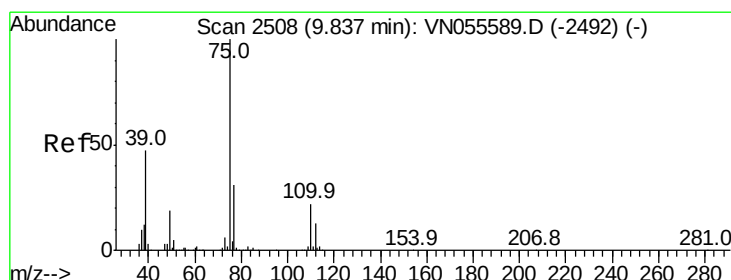
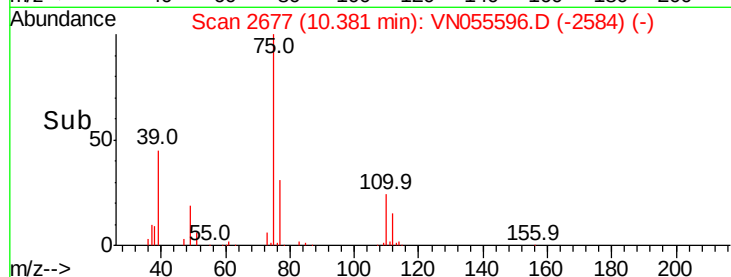
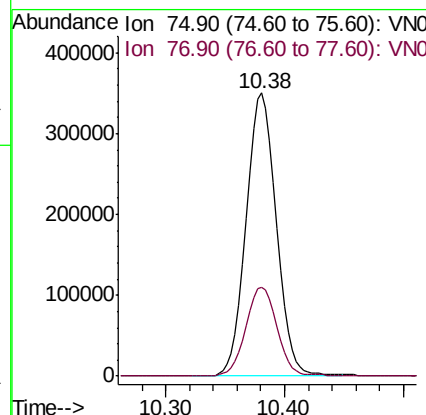
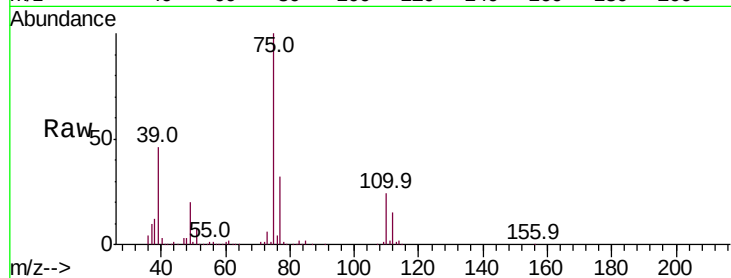
#53
t-1,3-Dichloropropene
Concen: 53.812 ug/l
RT: 10.38 min Scan# 2677
Delta R.T. 0.00 min
Lab File: VN055596.D
Acq: 14 May 2019 16:16

Instrument :
MSVOA_N
ClientSampleId :
VSTDCCC050EC

Tot Ion	Ratio	Lower	Upper
75	100		
77	31.2	25.5	38.3

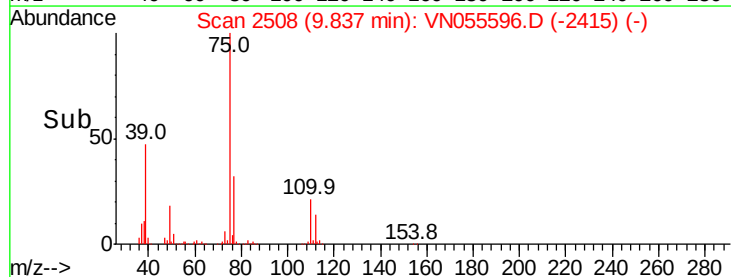
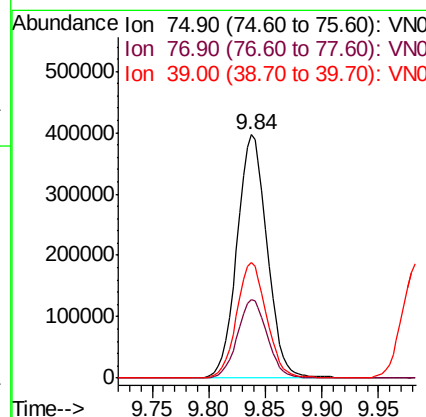
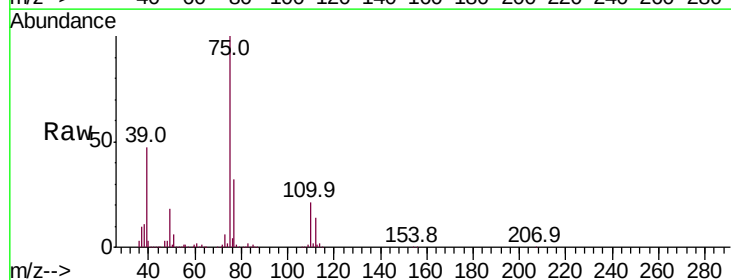
Manual Integrations
APPROVED

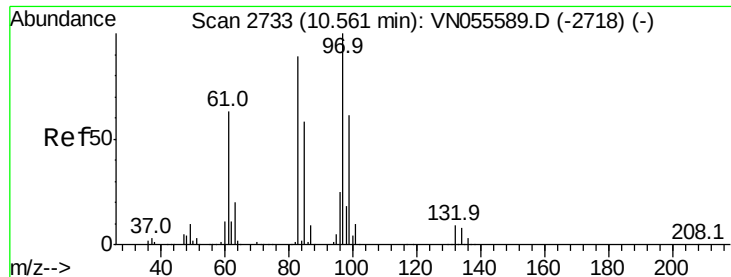
MMDadoda
5/16/2019 1:32:08 PM



#54
cis-1,3-Dichloropropene
Concen: 53.521 ug/l
RT: 9.84 min Scan# 2508
Delta R.T. 0.00 min
Lab File: VN055596.D
Acq: 14 May 2019 16:16

Tgt Ion	Ratio	Lower	Upper
75	100		
77	32.5	24.5	36.7
39	47.4	37.7	56.5





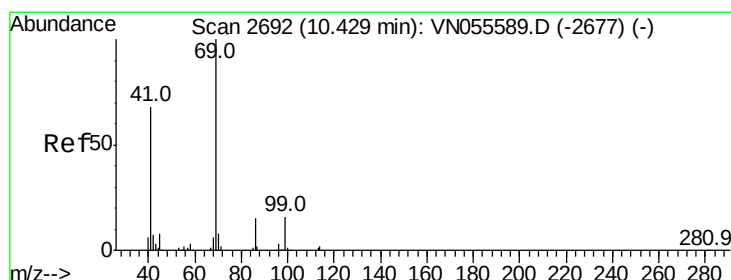
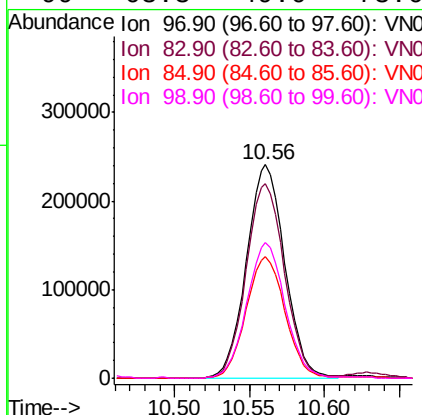
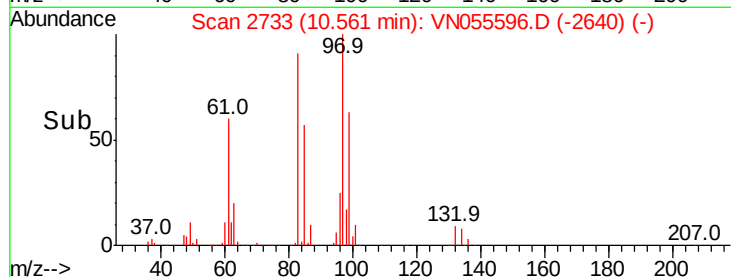
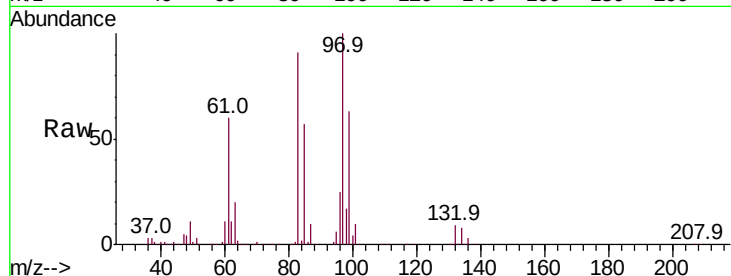
#55
 1,1,2-Trichloroethane
 Concen: 48.647 ug/l
 RT: 10.56 min Scan# 2733
 Delta R.T. 0.00 min
 Lab File: VN055596.D
 Acq: 14 May 2019 16:16

Instrument :
 MSVOA_N
 ClientSampleId :
 VSTDCCC050EC

Tot Ion:	97	Resp:	429416
Ion	Ratio	Lower	Upper
97	100		
83	90.8	71.5	107.3
85	56.6	46.2	69.4
99	63.3	49.0	73.6

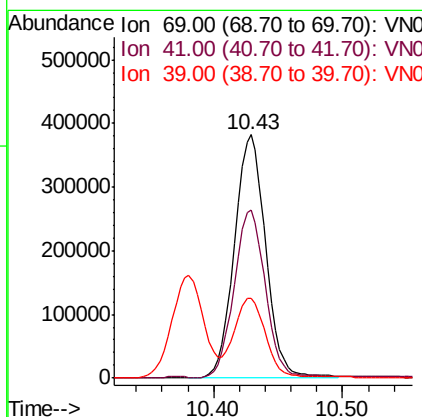
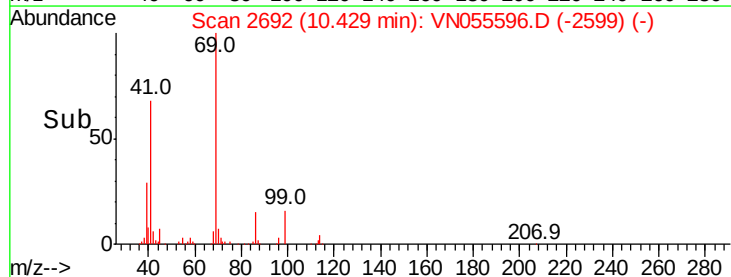
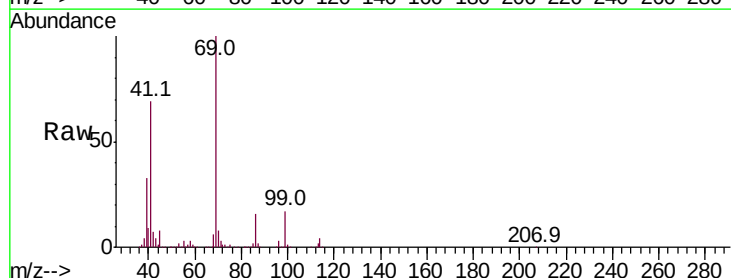
Manual Integrations
 APPROVED

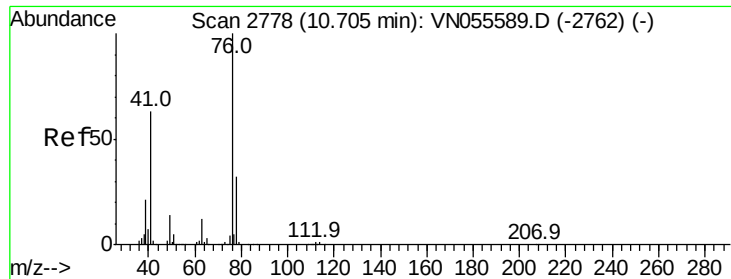
MMDadoda
 5/16/2019 1:32:08 PM



#56
 Ethyl methacrylate
 Concen: 52.486 ug/l
 RT: 10.43 min Scan# 2692
 Delta R.T. 0.00 min
 Lab File: VN055596.D
 Acq: 14 May 2019 16:16

Tgt Ion:	69	Resp:	645620
Ion	Ratio	Lower	Upper
69	100		
41	68.6	54.6	82.0
39	33.5	25.5	38.3





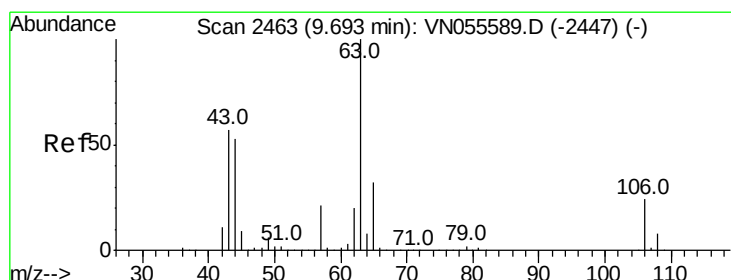
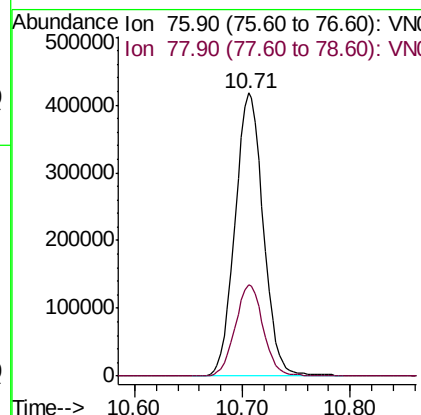
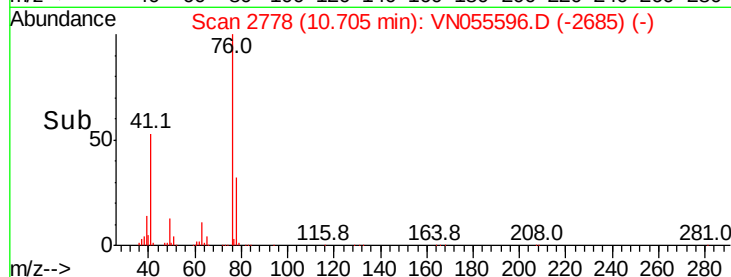
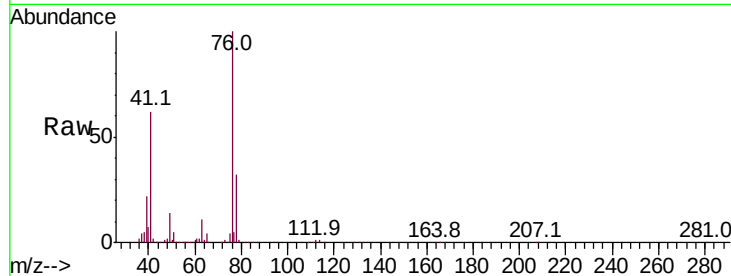
#57
 1,3-Dichloropropane
 Concen: 50.134 ug/l
 RT: 10.71 min Scan# 2778
 Delta R.T. 0.00 min
 Lab File: VN055596.D
 Acq: 14 May 2019 16:16

Instrument :
 MSVOA_N
 ClientSampleId :
 VSTDCCC050EC

Tot Ion: 76 Resp: 765018
 Ion Ratio Lower Upper
 76 100
 78 32.0 25.6 38.4

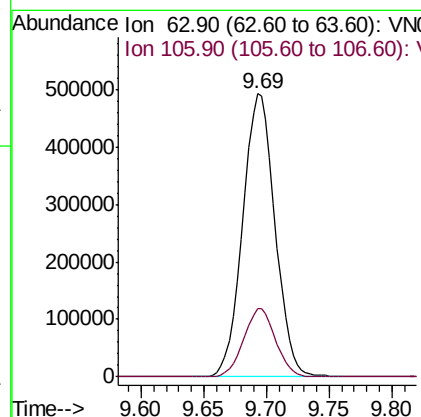
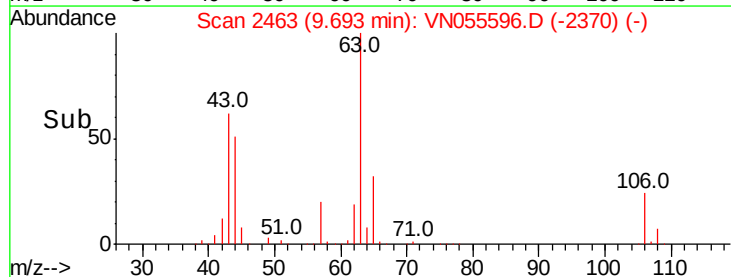
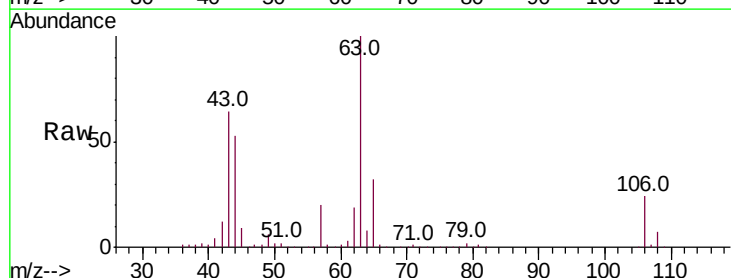
Manual Integrations
 APPROVED

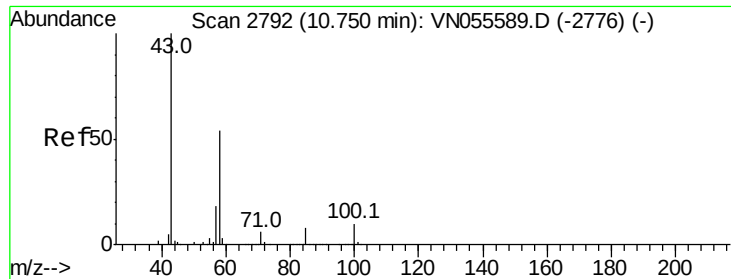
MMDadoda
 5/16/2019 1:32:08 PM



#58
 2-Chloroethyl Vinyl ether
 Concen: 233.232 ug/l
 RT: 9.69 min Scan# 2463
 Delta R.T. 0.00 min
 Lab File: VN055596.D
 Acq: 14 May 2019 16:16

Tgt Ion: 63 Resp: 883218
 Ion Ratio Lower Upper
 63 100
 106 23.9 19.0 28.4





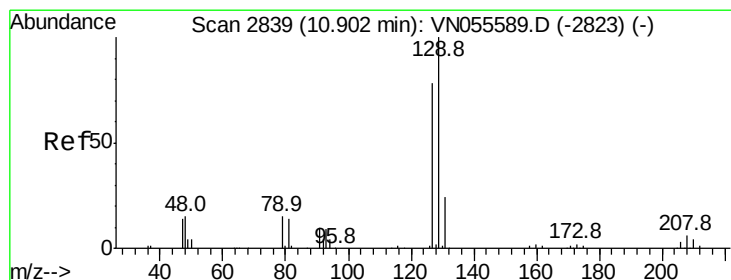
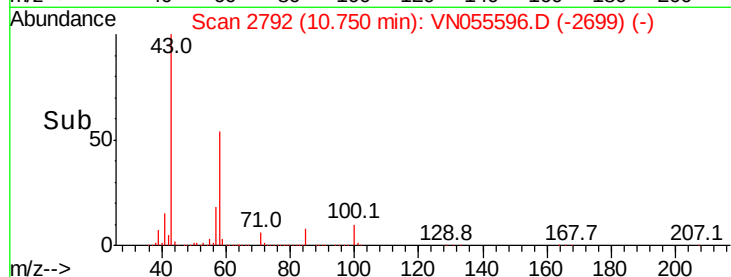
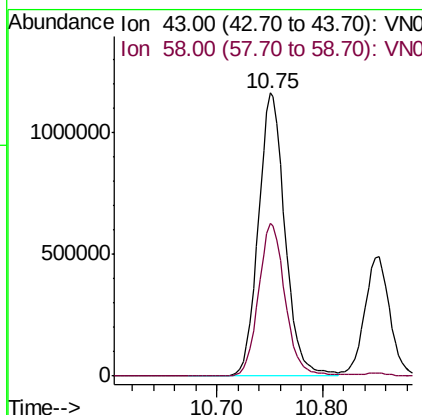
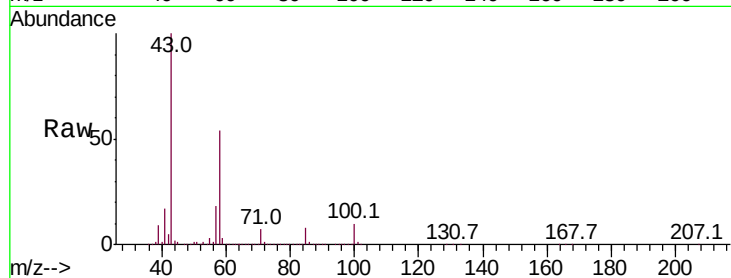
#59
2-Hexanone
Concen: 254.692 ug/l
RT: 10.75 min Scan# 2792
Delta R.T. 0.00 min
Lab File: VN055596.D
Acq: 14 May 2019 16:16

Instrument :
MSVOA_N
ClientSampleId :
VSTDCCC050EC

Tot Ion: 43 Resp: 2047091
Ion Ratio Lower Upper
43 100
58 54.1 27.0 80.8

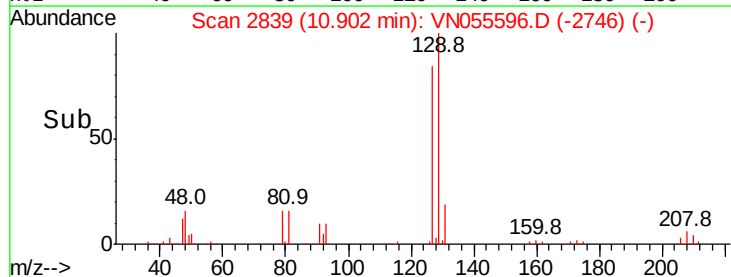
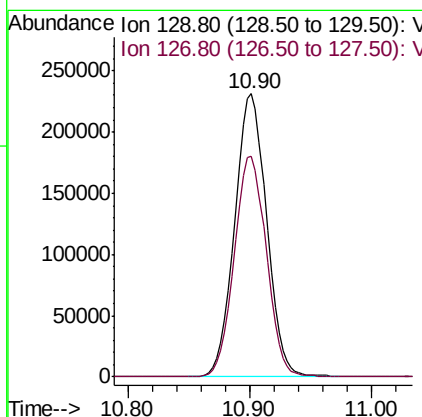
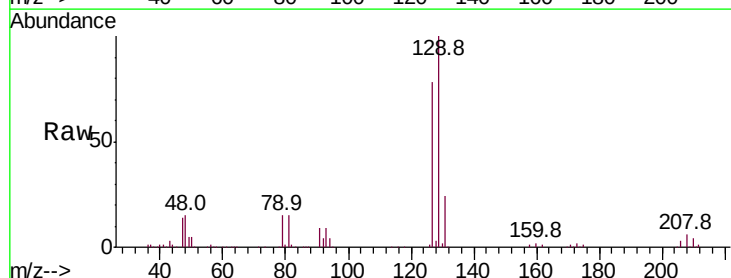
Manual Integrations
APPROVED

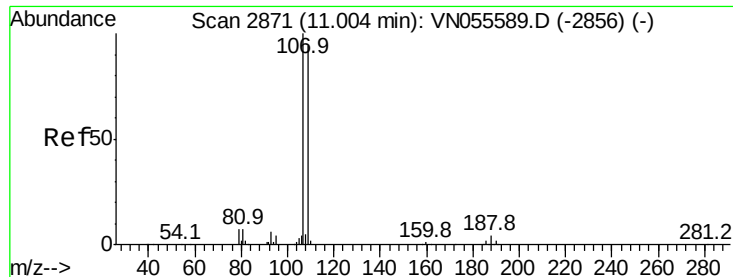
MMDadoda
5/16/2019 1:32:08 PM



#60
Dibromochloromethane
Concen: 52.336 ug/l
RT: 10.90 min Scan# 2839
Delta R.T. 0.00 min
Lab File: VN055596.D
Acq: 14 May 2019 16:16

Tgt Ion: 129 Resp: 420216
Ion Ratio Lower Upper
129 100
127 78.4 39.1 117.2





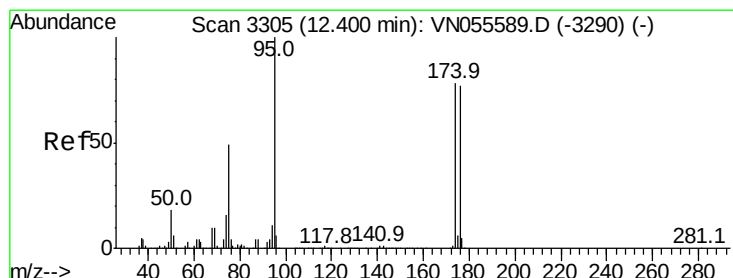
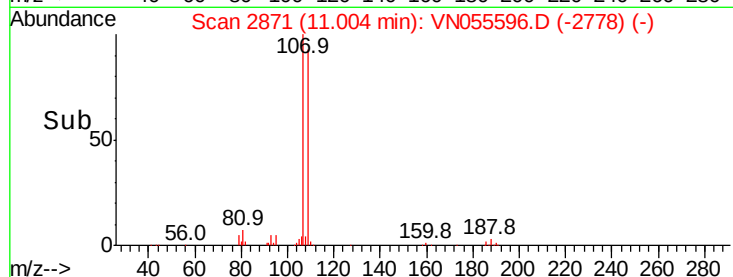
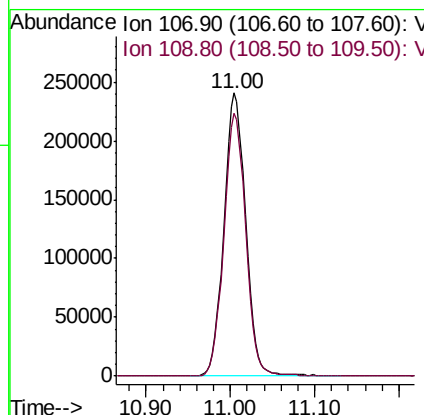
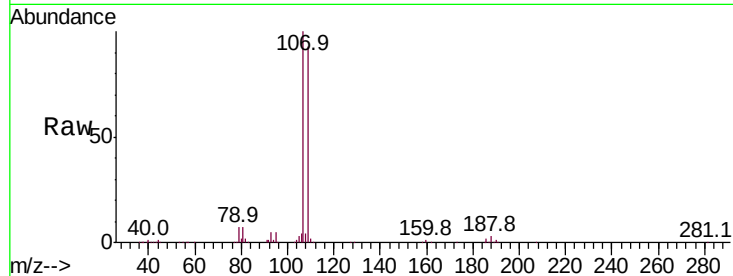
#61
 1,2-Dibromoethane
 Concen: 51.809 ug/l
 RT: 11.00 min Scan# 2871
 Delta R.T. 0.00 min
 Lab File: VN055596.D
 Acq: 14 May 2019 16:16

Instrument :
 MSVOA_N
 ClientSampleId :
 VSTDCCC050EC

Tot Ion	Ratio	Lower	Upper
107	100		
109	93.4	75.8	113.8

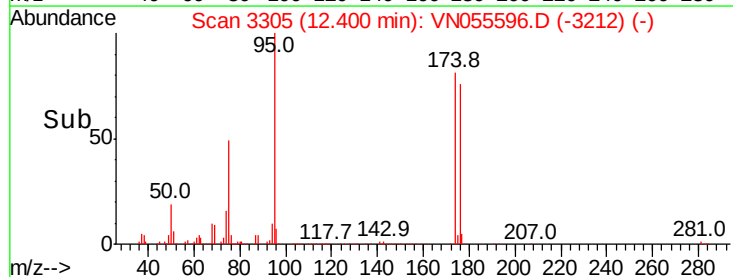
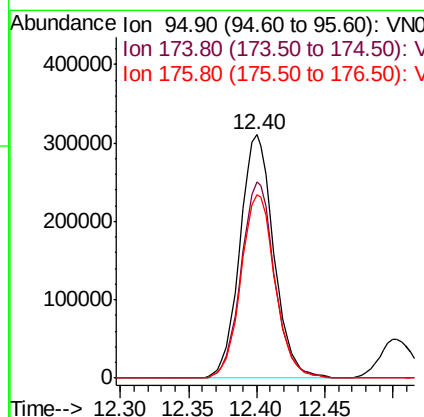
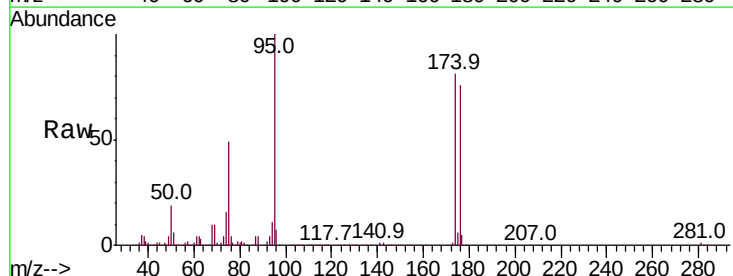
Manual Integrations
 APPROVED

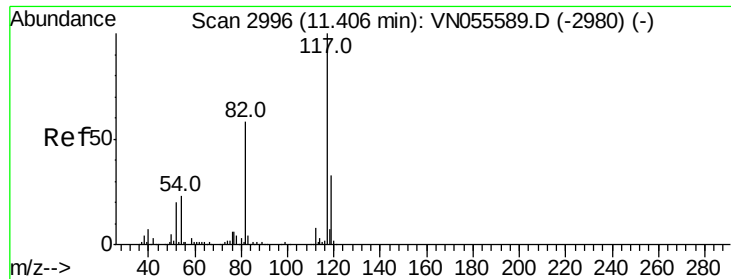
MMDadoda
 5/16/2019 1:32:08 PM



#62
 4-Bromofluorobenzene
 Concen: 52.887 ug/l
 RT: 12.40 min Scan# 3305
 Delta R.T. 0.00 min
 Lab File: VN055596.D
 Acq: 14 May 2019 16:16

Tgt Ion	Ratio	Lower	Upper
95	100		
174	79.6	0.0	158.4
176	75.9	0.0	153.4





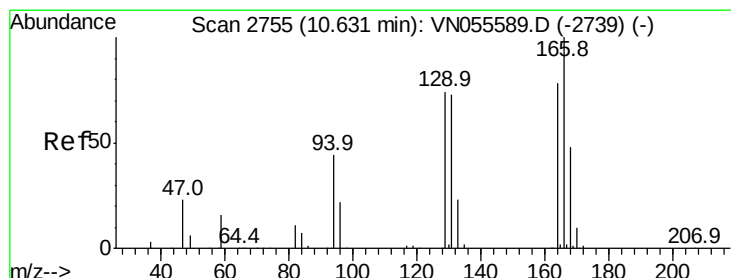
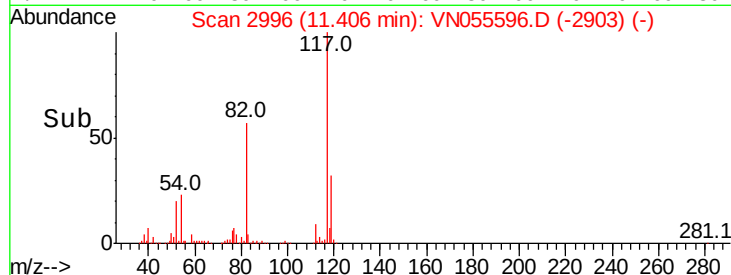
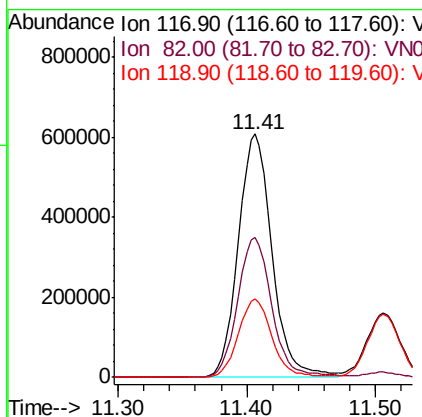
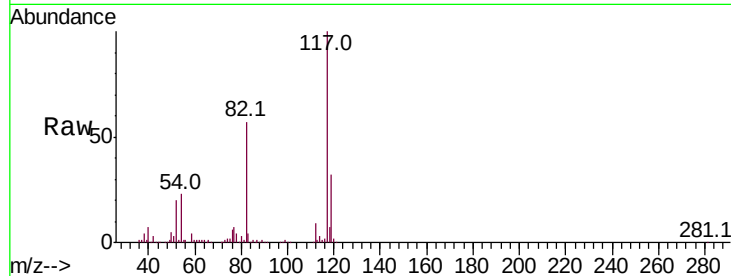
#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.41 min Scan# 2996
Delta R.T. 0.00 min
Lab File: VN055596.D
Acq: 14 May 2019 16:16

Instrument :
MSVOA_N
ClientSampleId :
VSTDCCC050EC

Tot Ion:117 Resp: 1106995
Ion Ratio Lower Upper
117 100
82 57.5 46.7 70.1
119 32.0 26.0 39.0

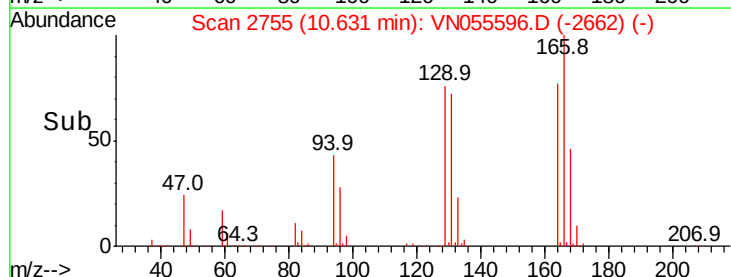
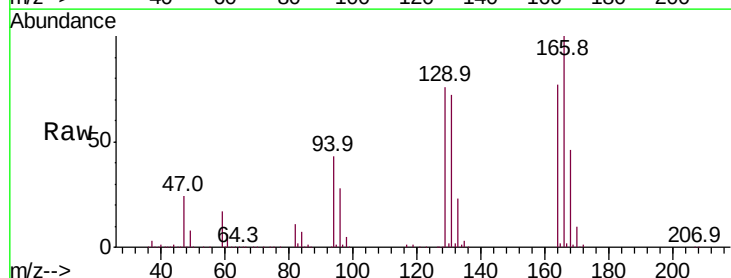
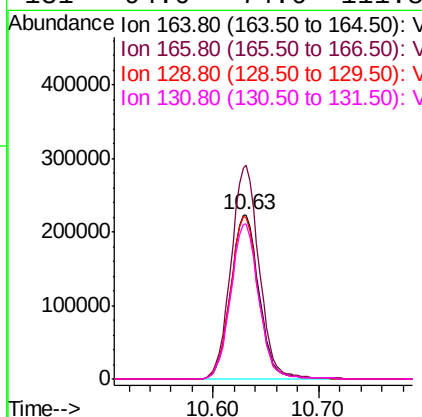
Manual Integrations
APPROVED

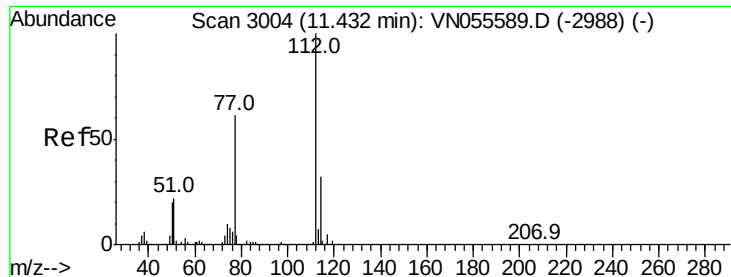
MMDadoda
5/16/2019 1:32:08 PM



#64
Tetrachloroethene
Concen: 46.963 ug/l
RT: 10.63 min Scan# 2755
Delta R.T. 0.00 min
Lab File: VN055596.D
Acq: 14 May 2019 16:16

Tgt Ion:164 Resp: 415274
Ion Ratio Lower Upper
164 100
166 130.2 102.1 153.1
129 98.3 75.8 113.8
131 94.0 74.6 111.8





#65

Chlorobenzene

Concen: 48.836 ug/l

RT: 11.43 min Scan# 3004

Delta R.T. 0.00 min

Lab File: VN055596.D

Acq: 14 May 2019 16:16

Instrument :

MSVOA_N

ClientSampleId :

VSTDCCC050EC

Tot Ion:112 Resp: 1121852

Ion Ratio Lower Upper

112 100

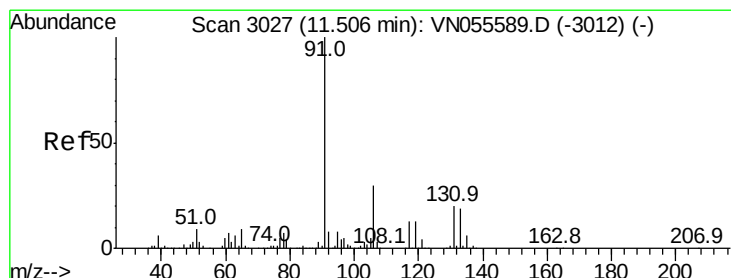
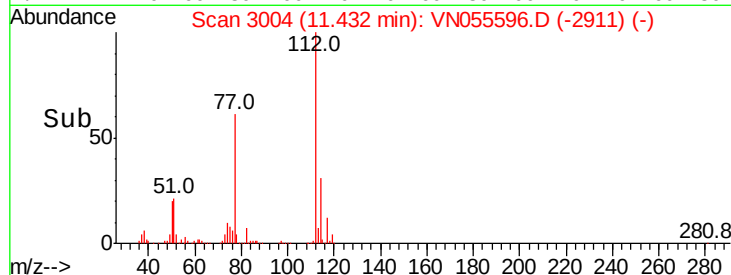
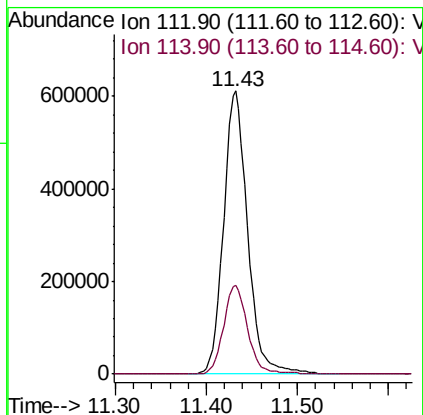
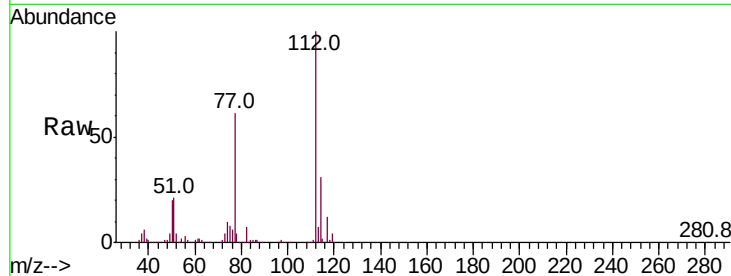
114 31.3 25.4 38.2

Manual Integrations

APPROVED

MMDadoda

5/16/2019 1:32:08 PM



#66

1,1,1,2-Tetrachloroethane

Concen: 50.665 ug/l

RT: 11.51 min Scan# 3027

Delta R.T. 0.00 min

Lab File: VN055596.D

Acq: 14 May 2019 16:16

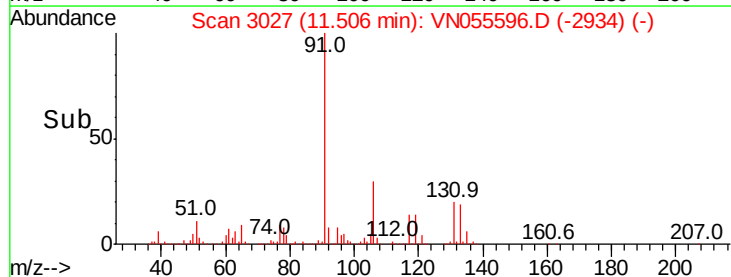
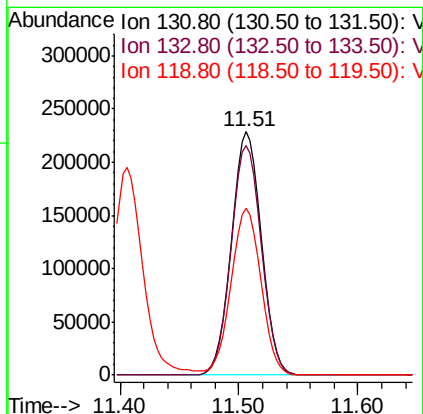
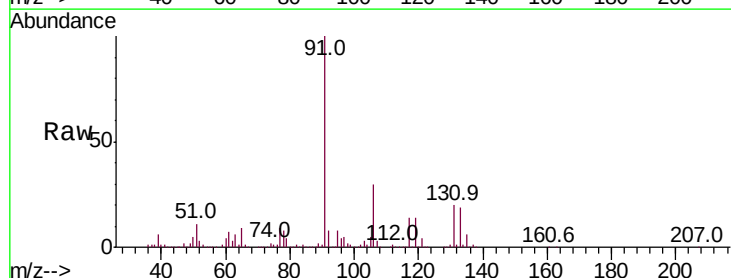
Tgt Ion:131 Resp: 398968

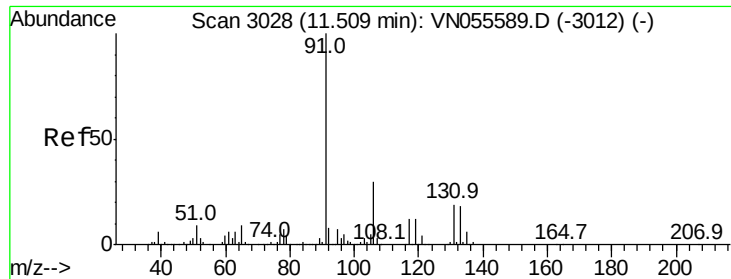
Ion Ratio Lower Upper

131 100

133 95.4 47.6 142.9

119 69.0 34.2 102.5





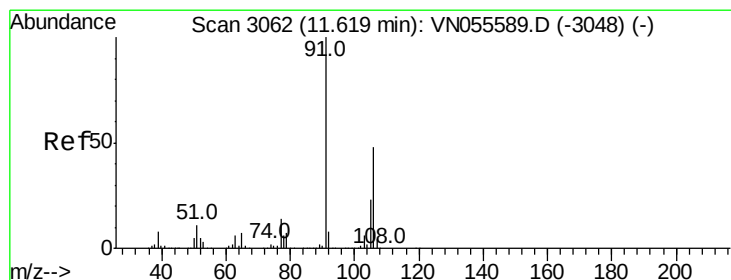
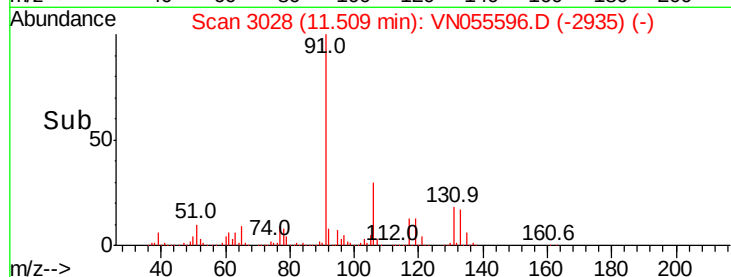
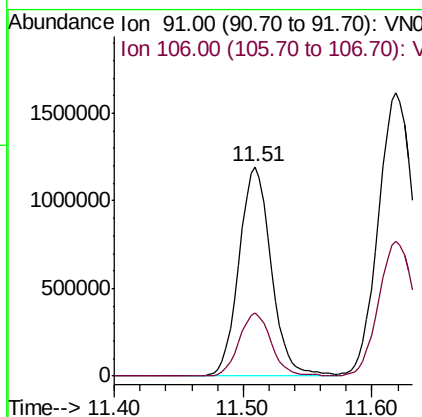
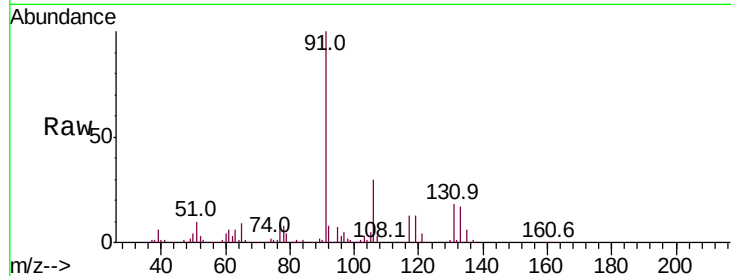
#67
Ethyl Benzene
Concen: 50.535 ug/l
RT: 11.51 min Scan# 3028
Delta R.T. 0.00 min
Lab File: VN055596.D
Acq: 14 May 2019 16:16

Instrument :
MSVOA_N
ClientSampleId :
VSTDCCC050EC

Tot Ion: 91 Resp: 2082084
Ion Ratio Lower Upper
91 100
106 29.9 24.1 36.1

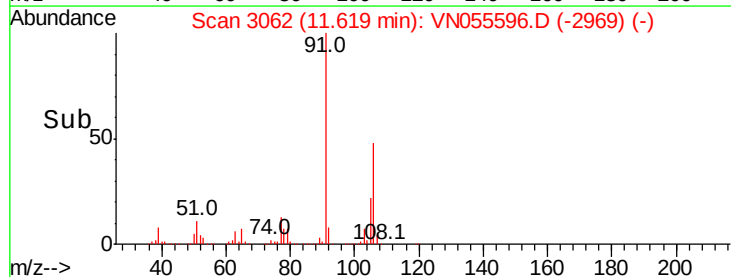
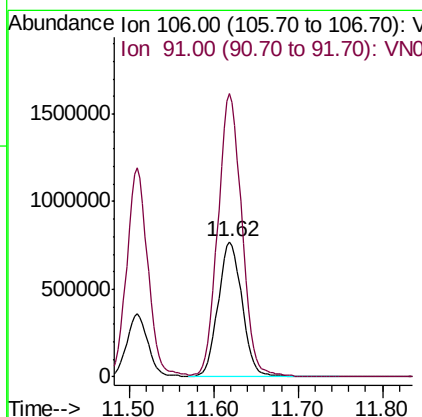
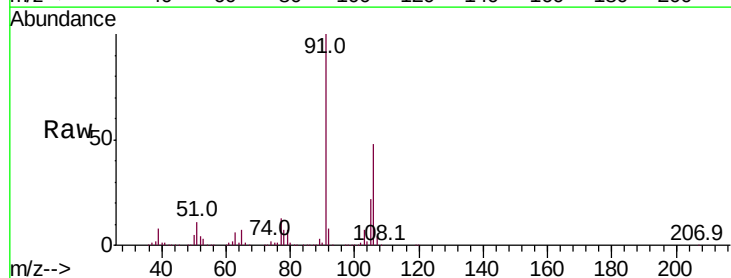
Manual Integrations
APPROVED

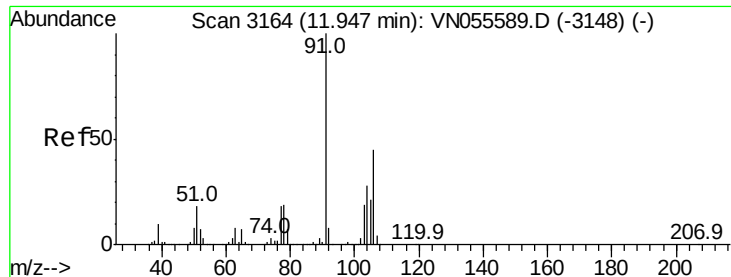
MMDadoda
5/16/2019 1:32:08 PM



#68
m/p-Xylenes
Concen: 101.145 ug/l
RT: 11.62 min Scan# 3062
Delta R.T. 0.00 min
Lab File: VN055596.D
Acq: 14 May 2019 16:16

Tgt Ion: 106 Resp: 1523189
Ion Ratio Lower Upper
106 100
91 209.3 167.5 251.3





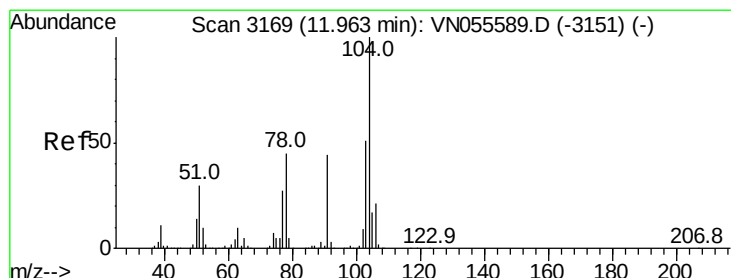
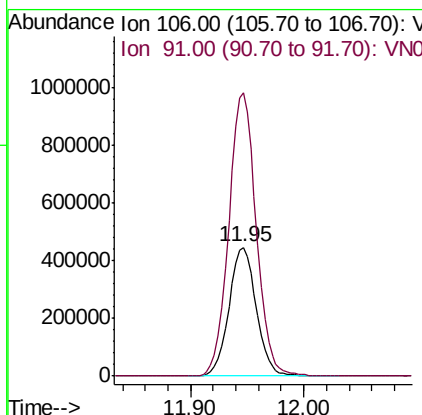
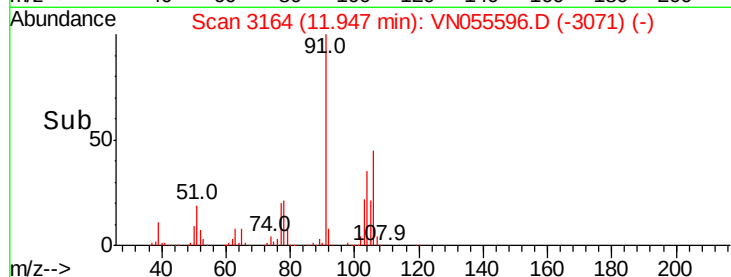
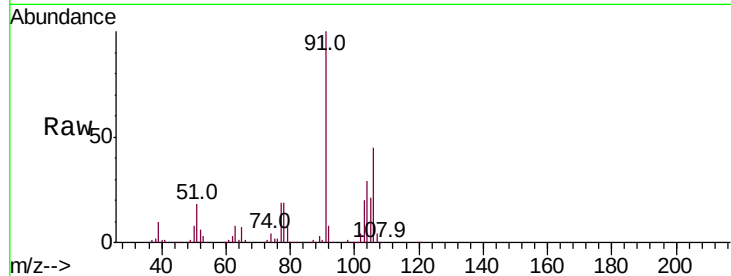
#69
o-Xylene
Concen: 50.949 ug/l
RT: 11.95 min Scan# 3164
Delta R.T. 0.00 min
Lab File: VN055596.D
Acq: 14 May 2019 16:16

Instrument :
MSVOA_N
ClientSampleId :
VSTDCCC050EC

Tot Ion:106 Resp: 746657
Ion Ratio Lower Upper
106 100
91 220.8 110.2 330.6

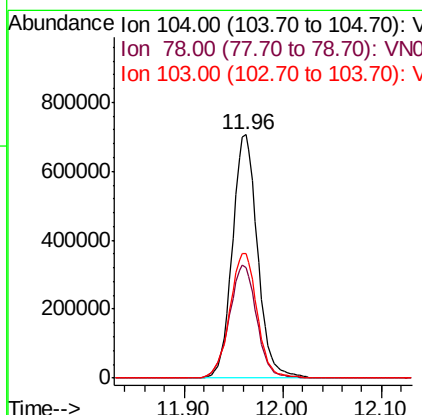
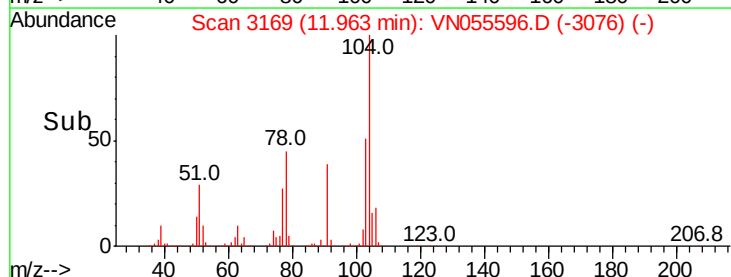
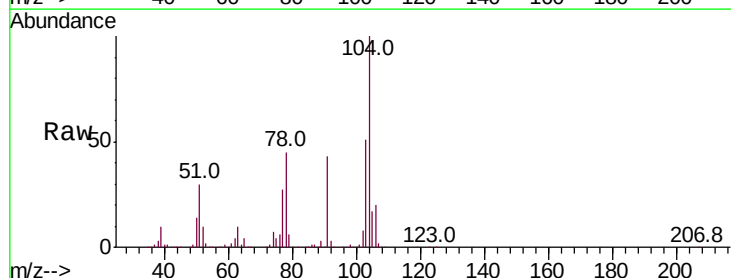
Manual Integrations
APPROVED

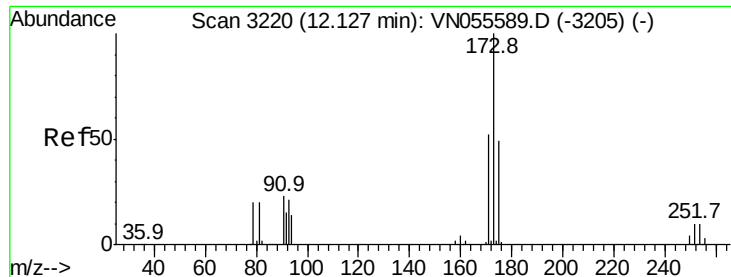
MMDadoda
5/16/2019 1:32:08 PM



#70
Styrene
Concen: 53.555 ug/l
RT: 11.96 min Scan# 3169
Delta R.T. 0.00 min
Lab File: VN055596.D
Acq: 14 May 2019 16:16

Tgt Ion:104 Resp: 1248183
Ion Ratio Lower Upper
104 100
78 50.7 40.8 61.2
103 55.8 44.6 67.0





#71

Bromoform

Concen: 53.891 ug/l

RT: 12.13 min Scan# 3220

Delta R.T. 0.00 min

Lab File: VN055596.D

Acq: 14 May 2019 16:16

Instrument :

MSVOA_N

ClientSampleId :

VSTDCCC050EC

Tot Ion:173 Resp: 276608

Ion Ratio Lower Upper

173 100

175 48.6 24.4 73.4

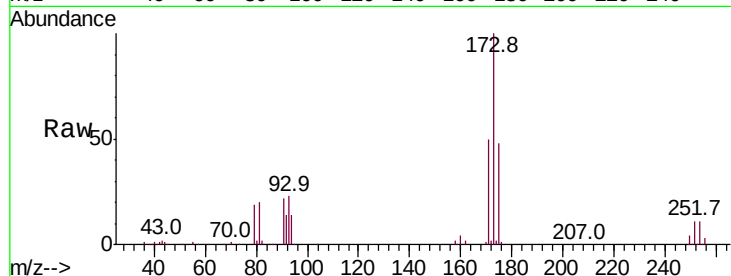
254 0.2 0.1 0.1#

Manual Integrations

APPROVED

MMDadoda

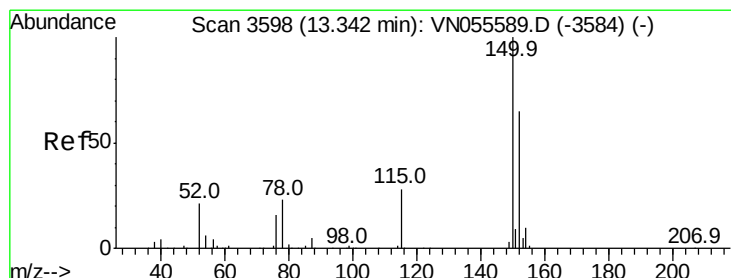
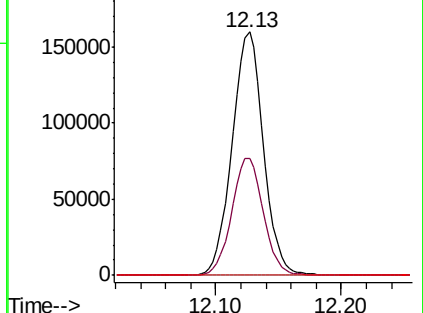
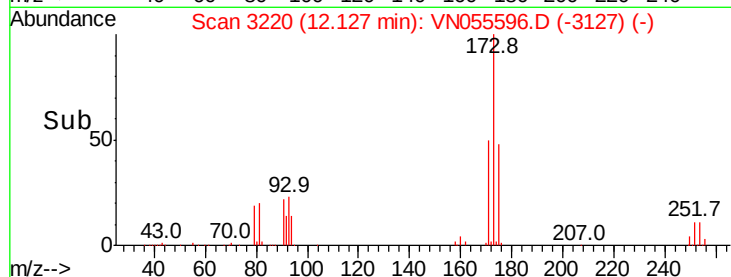
5/16/2019 1:32:08 PM



Abundance Ion 172.70 (172.40 to 173.40): V

Ion 174.70 (174.40 to 175.40): V

Ion 254.40 (254.10 to 255.10): V



#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

RT: 13.34 min Scan# 3598

Delta R.T. 0.00 min

Lab File: VN055596.D

Acq: 14 May 2019 16:16

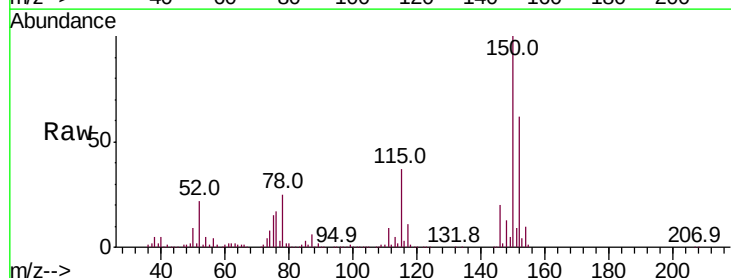
Tgt Ion:152 Resp: 460264

Ion Ratio Lower Upper

152 100

115 59.8 29.8 89.4

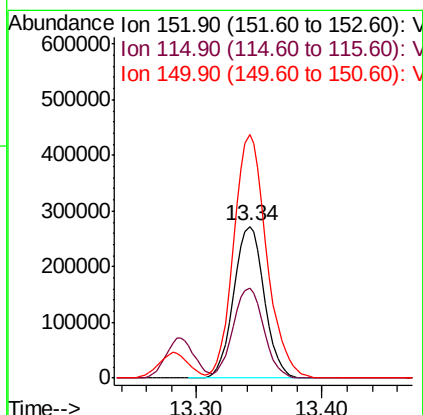
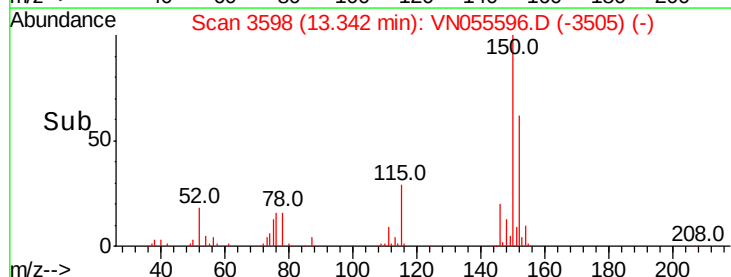
150 172.9 0.0 346.6

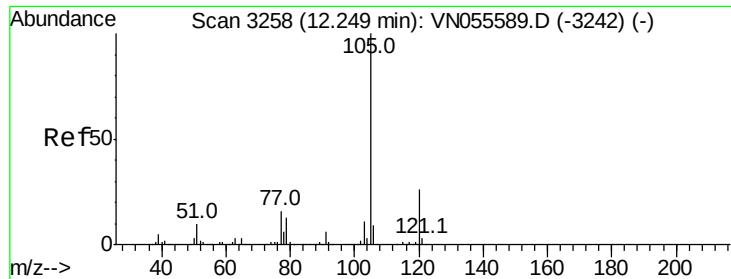


Abundance Ion 151.90 (151.60 to 152.60): V

Ion 114.90 (114.60 to 115.60): V

Ion 149.90 (149.60 to 150.60): V





#73

Isopropylbenzene

Concen: 43.740 ug/l

RT: 12.25 min Scan# 3257

Delta R.T. -0.00 min

Lab File: VN055596.D

Acq: 14 May 2019 16:16

Instrument :

MSVOA_N

ClientSampleId :

VSTDCCC050EC

Tot Ion:105 Resp: 1967446

Ion Ratio Lower Upper

105 100

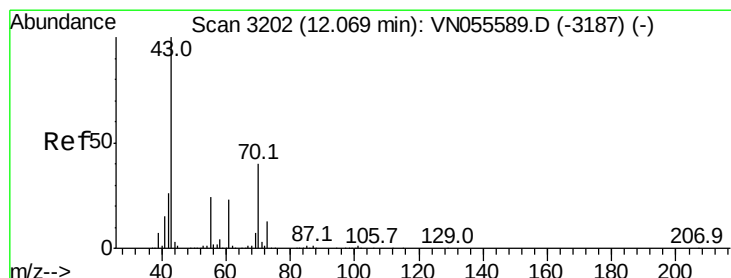
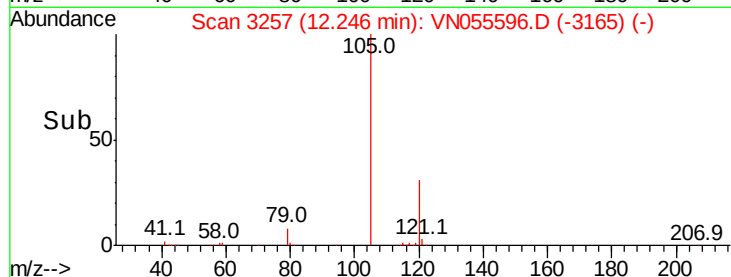
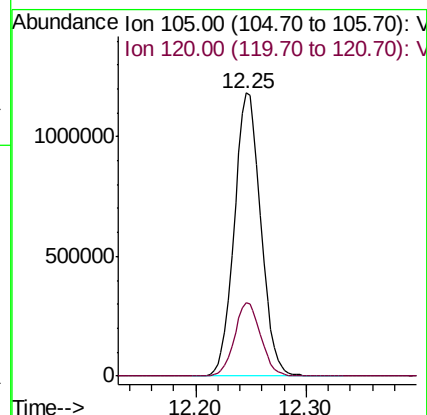
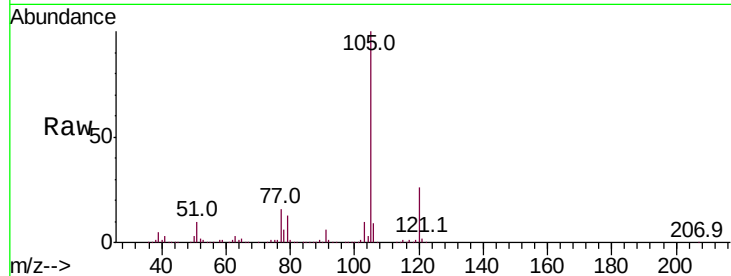
120 25.8 13.0 39.0

Manual Integrations

APPROVED

MMDadoda

5/16/2019 1:32:08 PM



#74

N-ethyl acetate

Concen: 47.802 ug/l

RT: 12.07 min Scan# 3202

Delta R.T. 0.00 min

Lab File: VN055596.D

Acq: 14 May 2019 16:16

Tgt Ion: 43 Resp: 758783

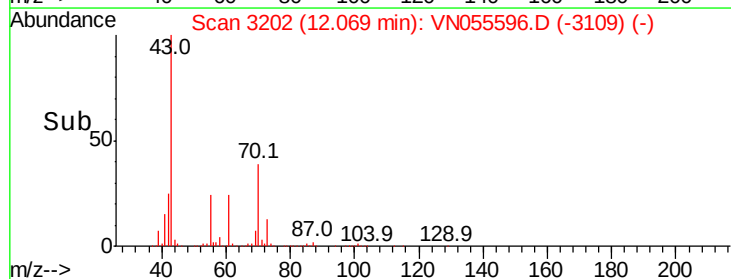
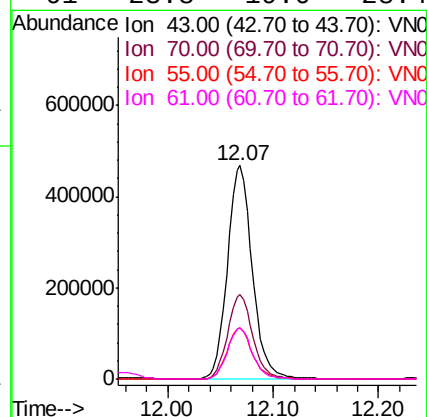
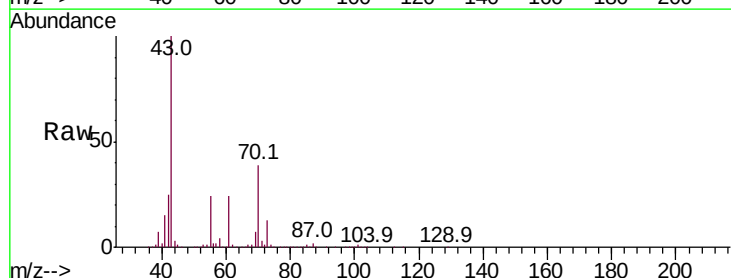
Ion Ratio Lower Upper

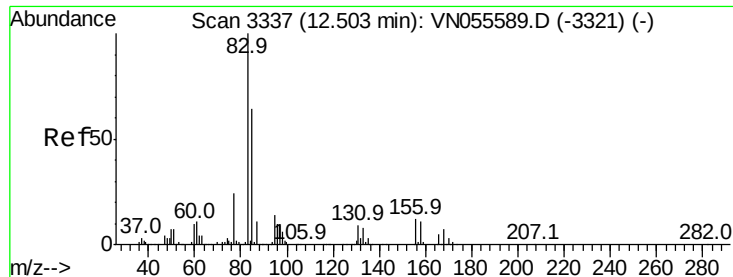
43 100

70 39.8 31.8 47.6

55 24.5 19.7 29.5

61 23.8 19.0 28.4





#75

1,1,2,2-Tetrachloroethane

Concen: 52.038 ug/l

RT: 12.50 min Scan# 3337

Delta R.T. 0.00 min

Lab File: VN055596.D

Acq: 14 May 2019 16:16

Instrument :

MSVOA_N

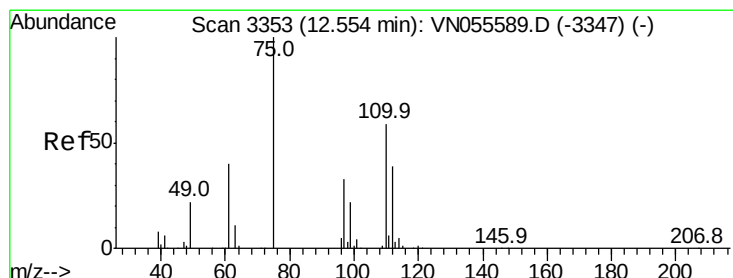
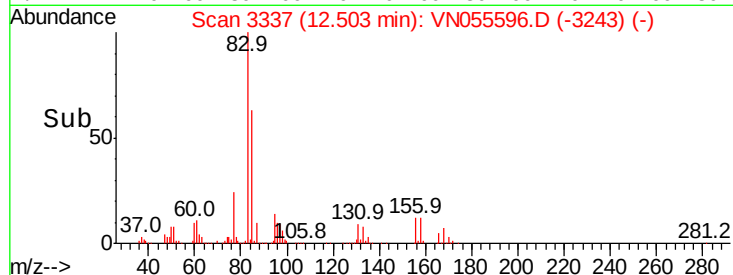
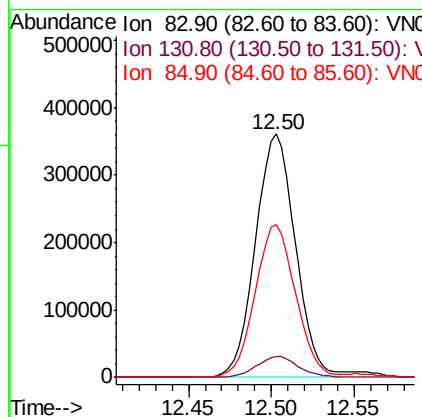
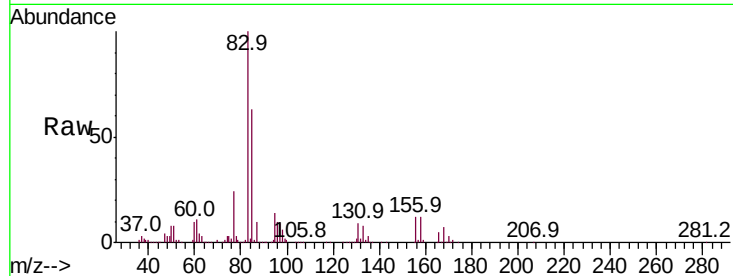
ClientSampleId :

VSTDCCC050EC

Tot Ion:	83	Resp:	605170
Ion Ratio	Lower	Upper	
83	100		
131	8.9	4.6	13.8
85	63.5	32.2	96.6

Manual Integrations
APPROVED

MMDadoda
5/16/2019 1:32:08 PM



#76

1,2,3-Trichloropropane

Concen: 45.964 ug/l m

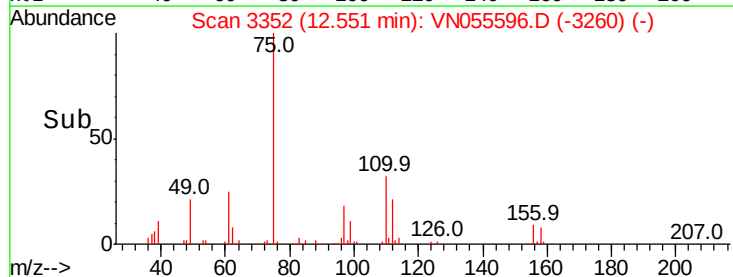
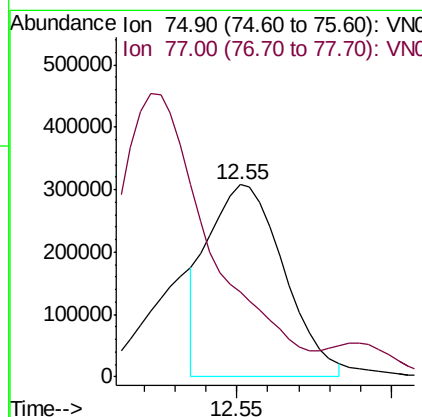
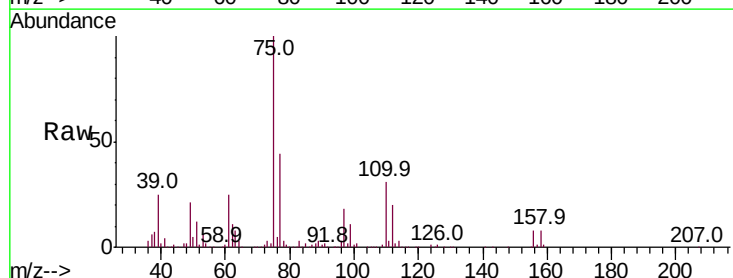
RT: 12.55 min Scan# 3352

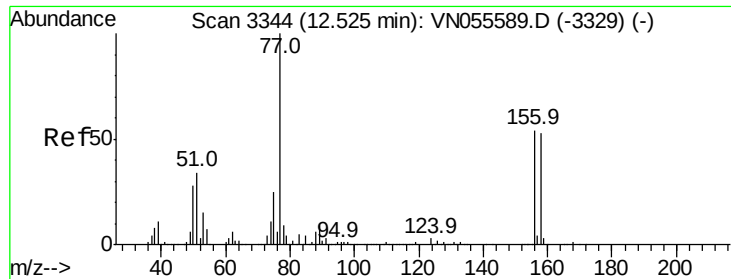
Delta R.T. -0.00 min

Lab File: VN055596.D

Acq: 14 May 2019 16:16

Tgt Ion:	75	Resp:	523433
Ion Ratio	Lower	Upper	
75	100		
77	0.0	0.0	0.0





#77

Bromobenzene

Concen: 50.861 ug/l

RT: 12.52 min Scan# 3343

Delta R.T. -0.00 min

Lab File: VN055596.D

Acq: 14 May 2019 16:16

Instrument :

MSVOA_N

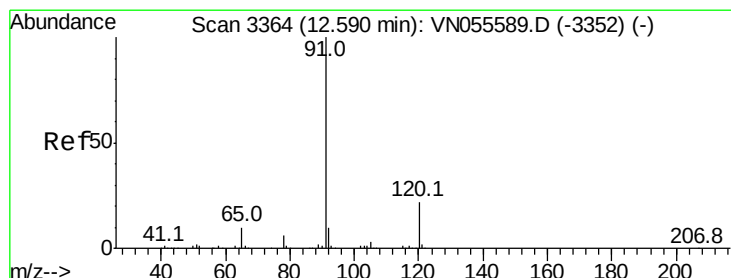
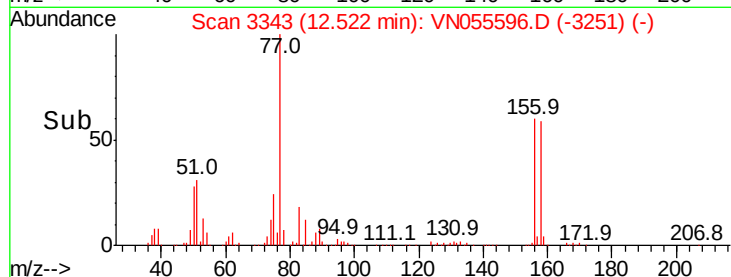
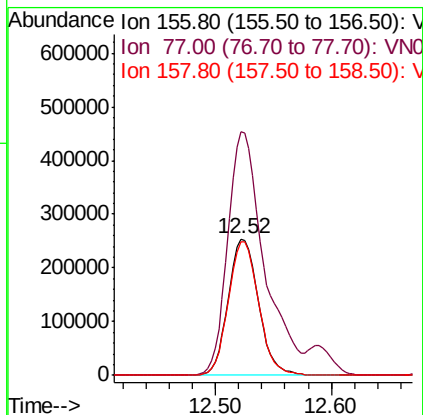
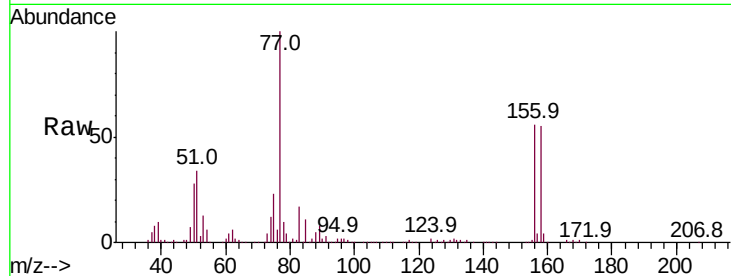
ClientSampleId :

VSTDCCC050EC

Tot Ion	Ratio	Lower	Upper
156	100		
77	216.5	108.9	326.7
158	98.2	48.1	144.3

Manual Integrations
APPROVED

MMDadoda
5/16/2019 1:32:08 PM



#78

n-propylbenzene

Concen: 46.260 ug/l

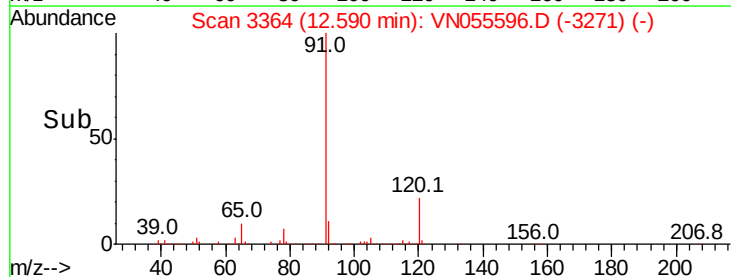
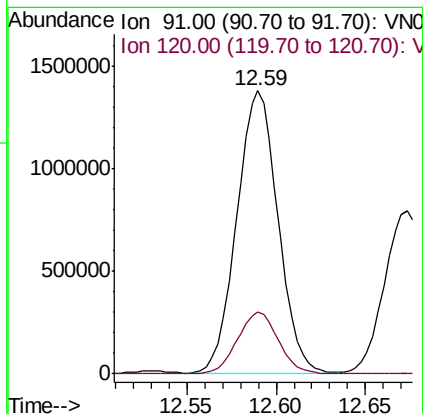
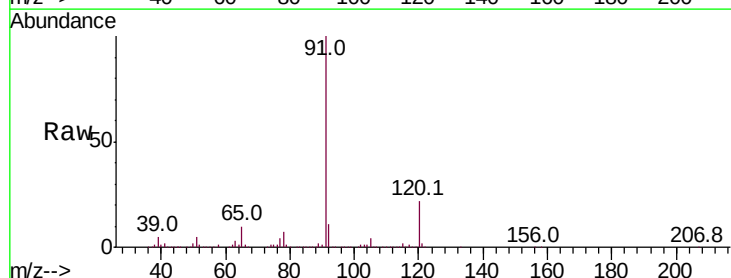
RT: 12.59 min Scan# 3364

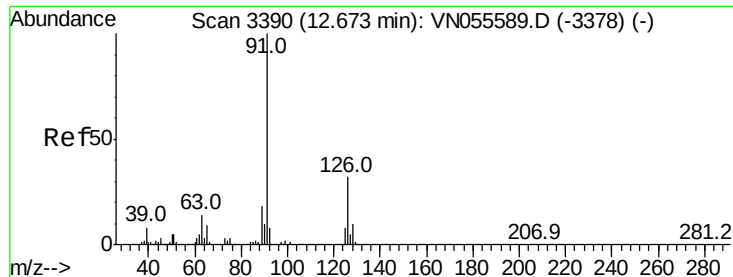
Delta R.T. 0.00 min

Lab File: VN055596.D

Acq: 14 May 2019 16:16

Tgt Ion	Ratio	Lower	Upper
91	100		
120	22.0	11.0	33.0





#79

2-Chlorotoluene

Concen: 44.315 ug/l

RT: 12.67 min Scan# 3390

Delta R.T. 0.00 min

Lab File: VN055596.D

Acq: 14 May 2019 16:16

Instrument :

MSVOA_N

ClientSampleId :

VSTDCCC050EC

Tot Ion: 91 Resp: 1351892

Ion Ratio Lower Upper

91 100

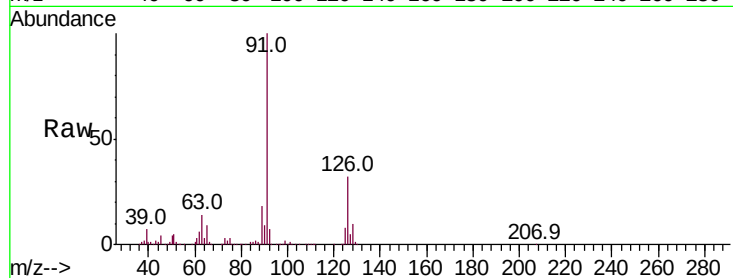
126 32.7 16.6 49.7

Manual Integrations

APPROVED

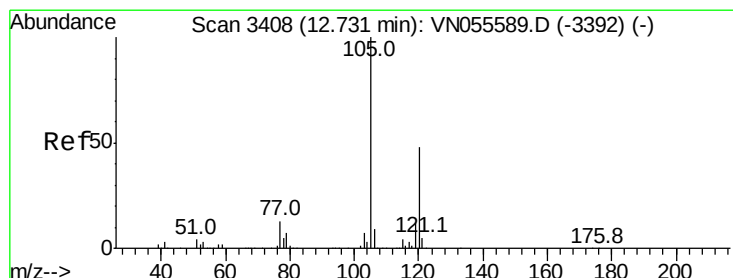
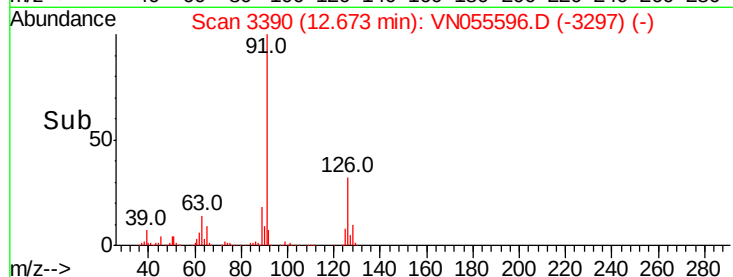
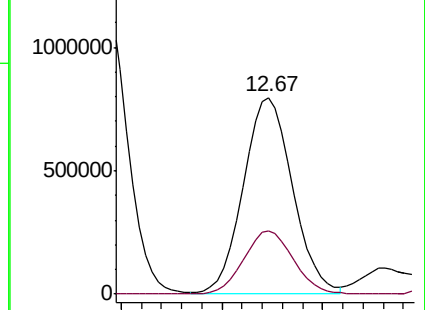
MMDadoda

5/16/2019 1:32:08 PM



Abundance Ion 91.00 (90.70 to 91.70): VN055589.D (-3378) (-)

Ion 125.90 (125.60 to 126.60): VN055589.D (-3378) (-)



#80

1,3,5-Trimethylbenzene

Concen: 46.130 ug/l

RT: 12.73 min Scan# 3408

Delta R.T. 0.00 min

Lab File: VN055596.D

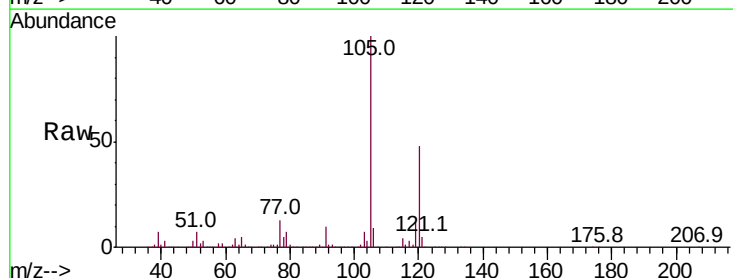
Acq: 14 May 2019 16:16

Tgt Ion: 105 Resp: 1640117

Ion Ratio Lower Upper

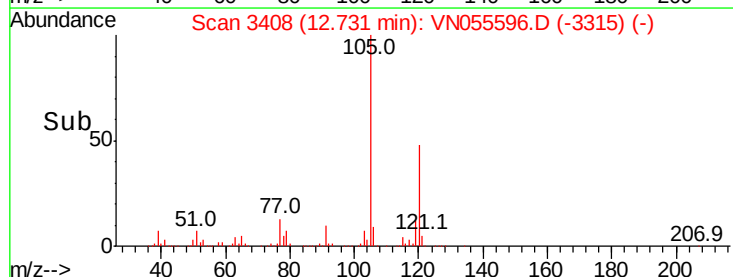
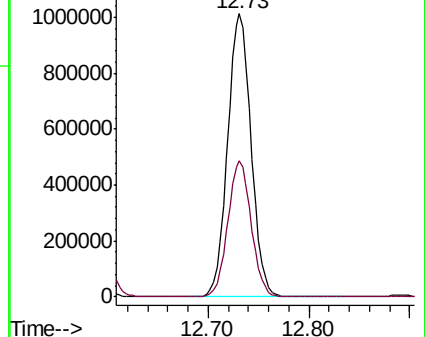
105 100

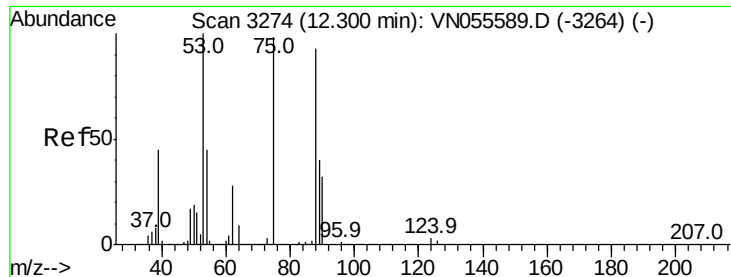
120 47.9 23.8 71.2



Abundance Ion 105.00 (104.70 to 105.70): VN055589.D (-3392) (-)

Ion 120.00 (119.70 to 120.70): VN055589.D (-3392) (-)





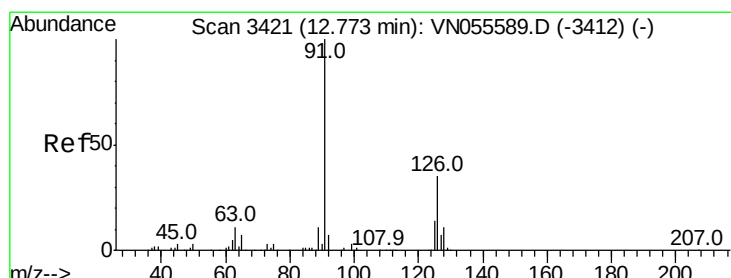
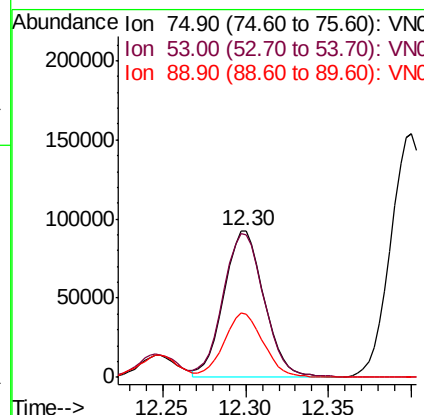
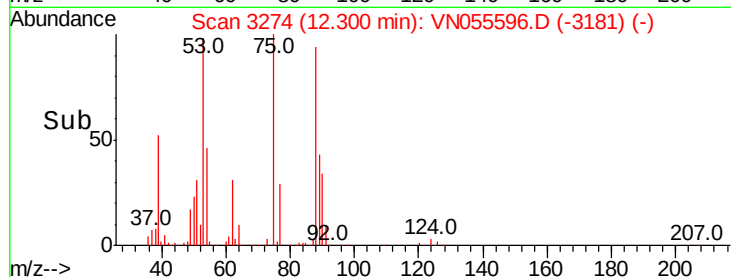
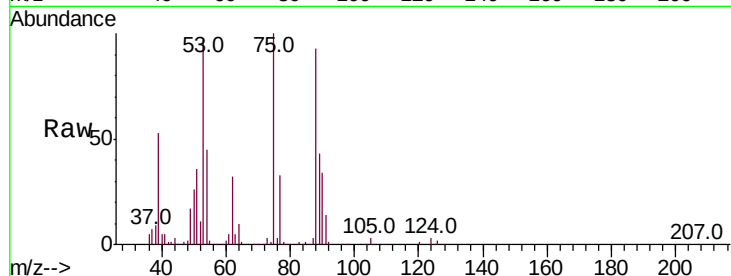
#81
trans-1,4-Dichloro-2-butene
Concen: 48.483 ug/l
RT: 12.30 min Scan# 3274
Delta R.T. 0.00 min
Lab File: VN055596.D
Acq: 14 May 2019 16:16

Instrument :
MSVOA_N
ClientSampleId :
VSTDCCC050EC

Tot Ion	Ratio	Lower	Upper
75	100		
53	100.9	83.9	125.9
89	43.0	34.7	52.1

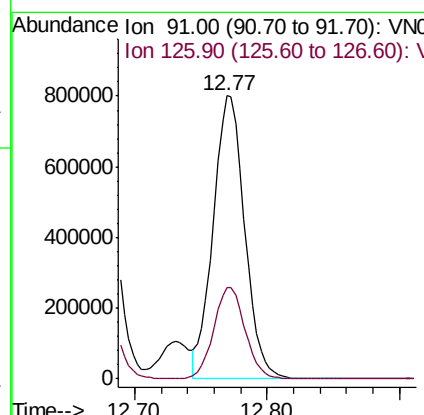
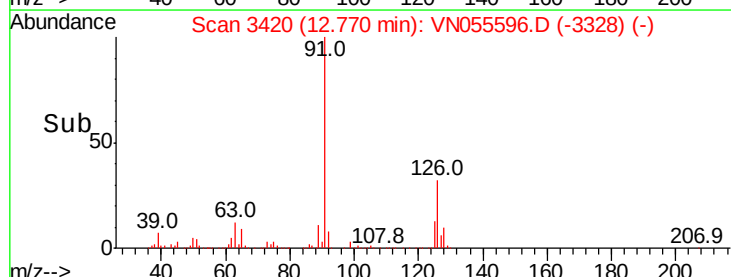
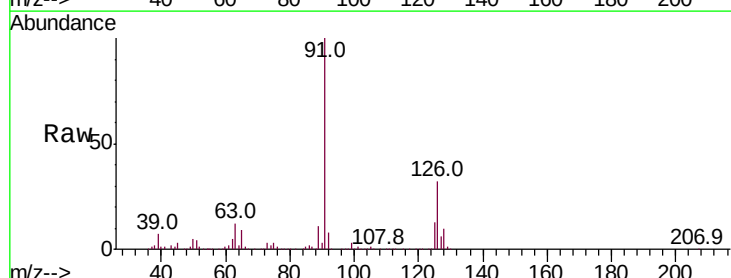
Manual Integrations
APPROVED

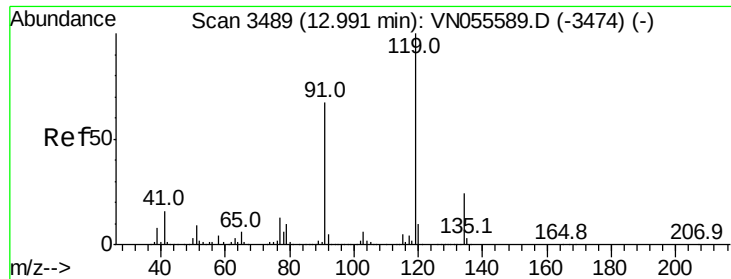
MMDadoda
5/16/2019 1:32:08 PM



#82
4-Chlorotoluene
Concen: 46.610 ug/l
RT: 12.77 min Scan# 3420
Delta R.T. -0.00 min
Lab File: VN055596.D
Acq: 14 May 2019 16:16

Tgt Ion	Ratio	Lower	Upper
91	100		
126	32.4	16.2	48.6





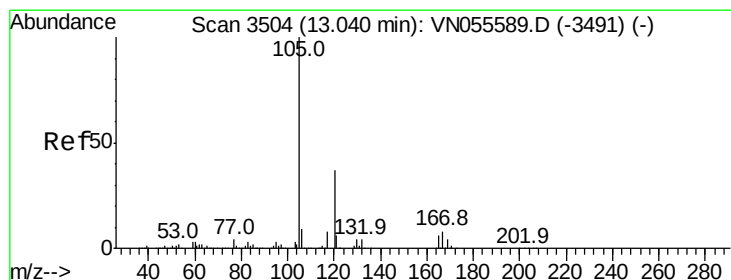
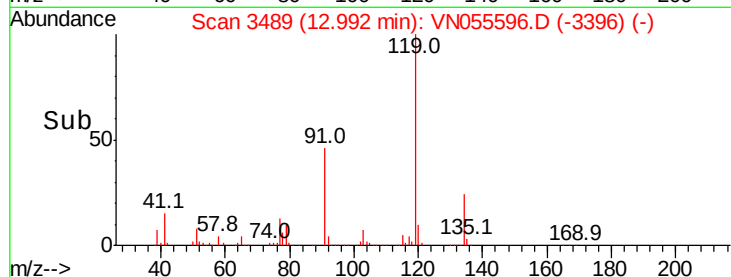
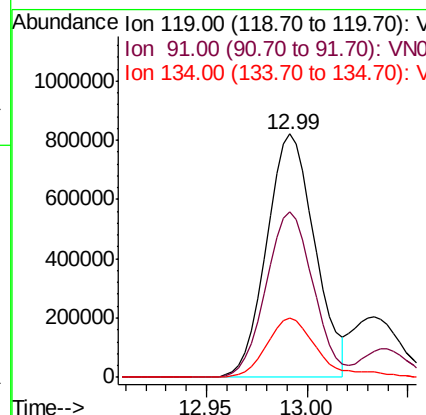
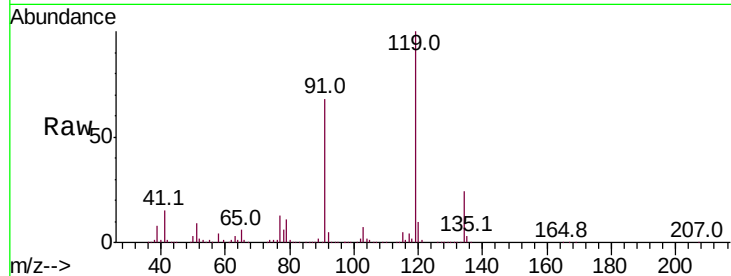
#83
 tert-Butylbenzene
 Concen: 44.275 ug/l
 RT: 12.99 min Scan# 3489
 Delta R.T. 0.00 min
 Lab File: VN055596.D
 Acq: 14 May 2019 16:16

Instrument :
 MSVOA_N
 ClientSampleId :
 VSTDCCC050EC

Tot Ion	Ratio	Lower	Upper
119	100		
91	66.8	33.5	100.4
134	25.8	12.7	38.1

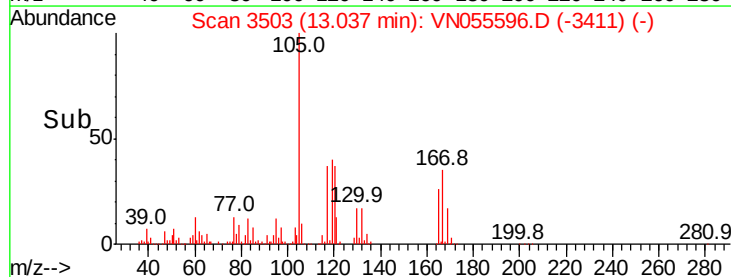
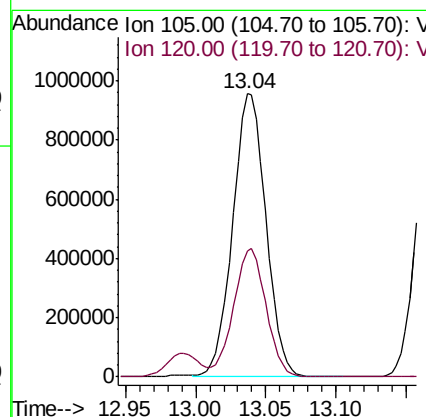
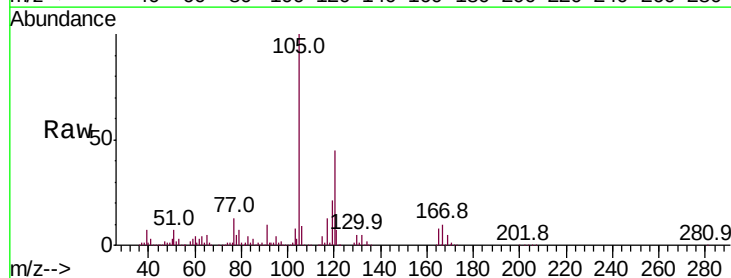
Manual Integrations
 APPROVED

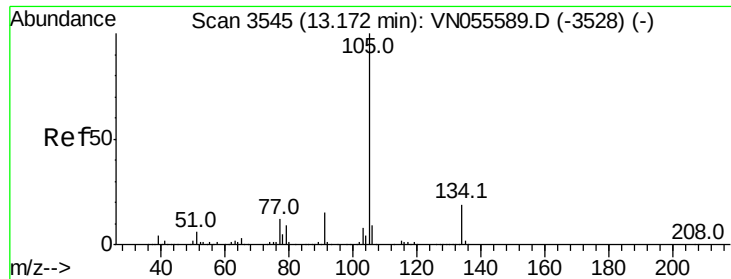
MMDadoda
 5/16/2019 1:32:08 PM



#84
 1,2,4-Trimethylbenzene
 Concen: 47.963 ug/l
 RT: 13.04 min Scan# 3503
 Delta R.T. -0.00 min
 Lab File: VN055596.D
 Acq: 14 May 2019 16:16

Tgt Ion	Ratio	Lower	Upper
105	100		
120	44.2	22.2	66.6





#85

sec-Butylbenzene

Concen: 45.825 ug/l

RT: 13.17 min Scan# 3545

Delta R.T. 0.00 min

Lab File: VN055596.D

Acq: 14 May 2019 16:16

Instrument :

MSVOA_N

ClientSampleId :

VSTDCCC050EC

Tot Ion:105 Resp: 1821448

Ion Ratio Lower Upper

105 100

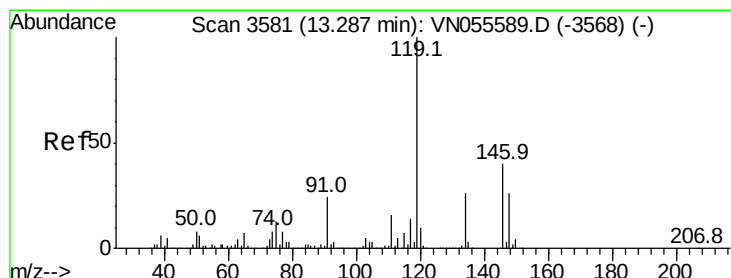
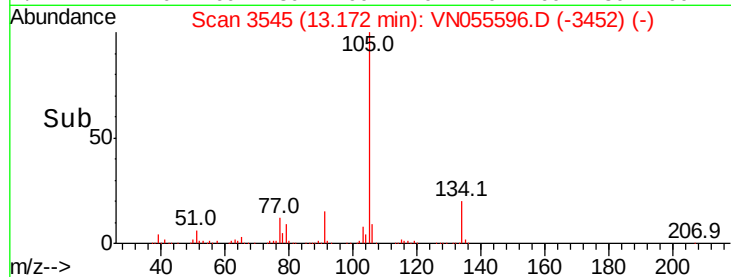
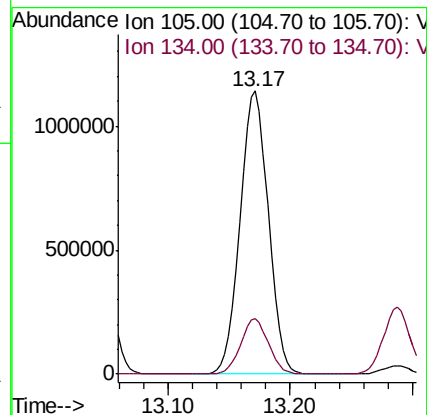
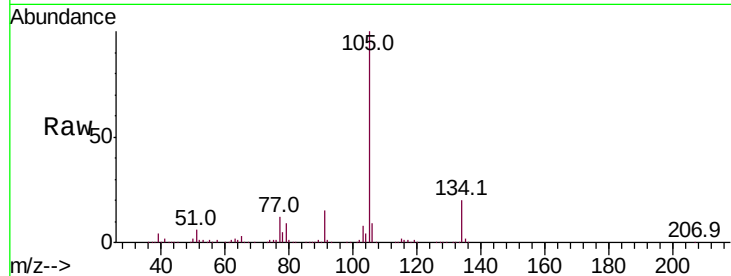
134 19.3 9.7 29.1

Manual Integrations

APPROVED

MMDadoda

5/16/2019 1:32:08 PM



#86

p-Isopropyltoluene

Concen: 48.857 ug/l

RT: 13.29 min Scan# 3581

Delta R.T. 0.00 min

Lab File: VN055596.D

Acq: 14 May 2019 16:16

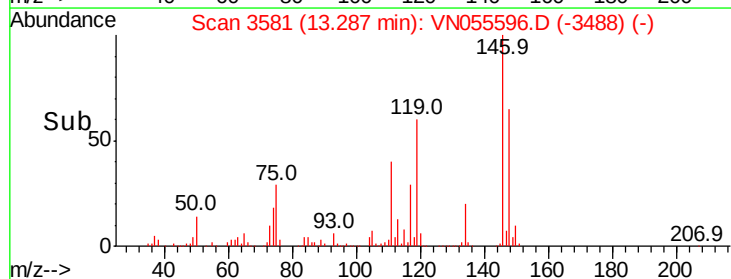
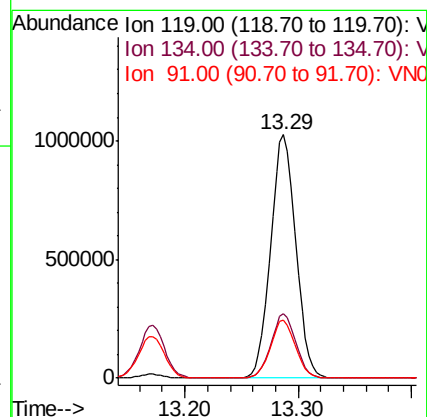
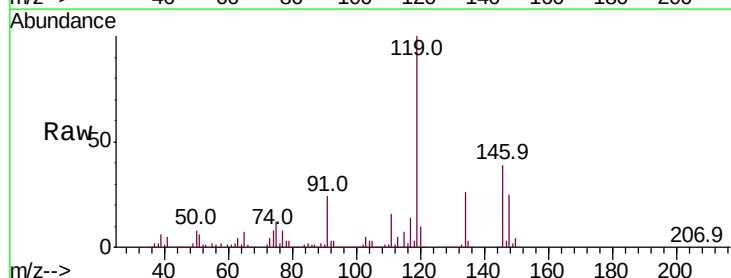
Tgt Ion:119 Resp: 1574620

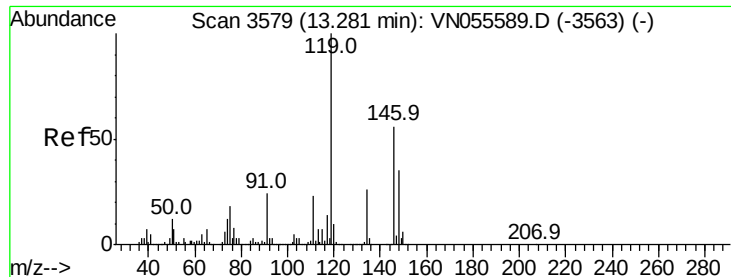
Ion Ratio Lower Upper

119 100

134 26.0 13.0 39.0

91 23.4 11.9 35.5





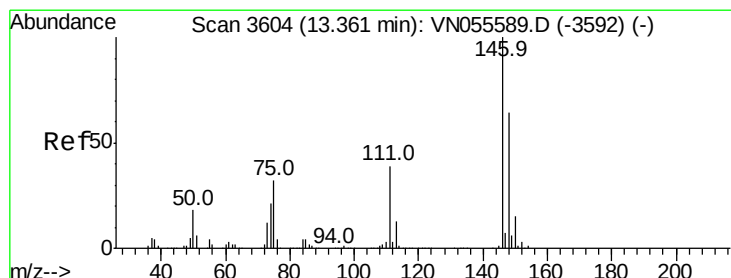
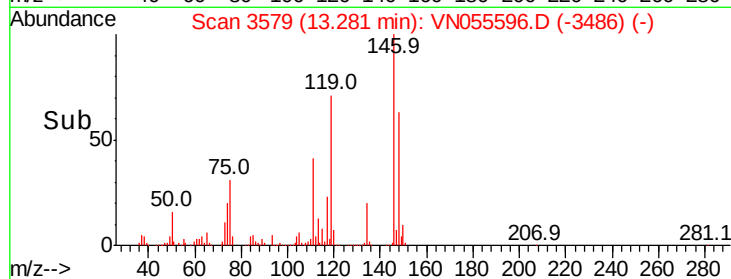
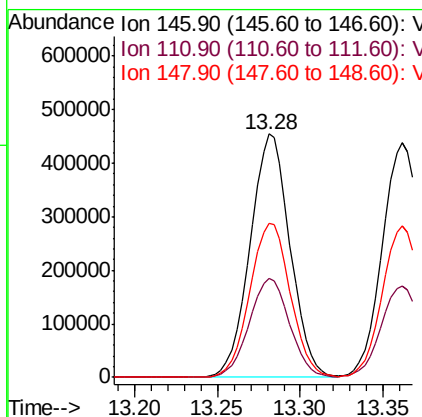
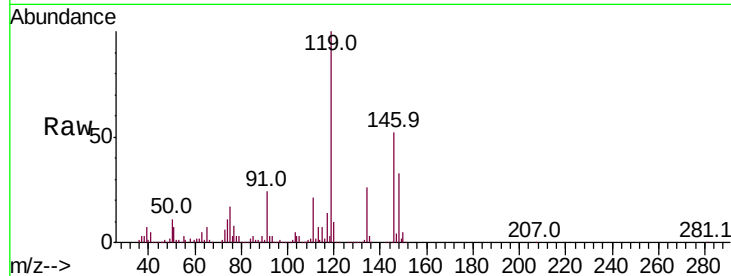
#87
 1,3-Dichlorobenzene
 Concen: 47.645 ug/l
 RT: 13.28 min Scan# 3579
 Delta R.T. 0.00 min
 Lab File: VN055596.D
 Acq: 14 May 2019 16:16

Instrument :
 MSVOA_N
 ClientSampleId :
 VSTDCCC050EC

Tot Ion	Ratio	Lower	Upper
146	100		
111	41.1	20.5	61.5
148	64.2	32.3	96.9

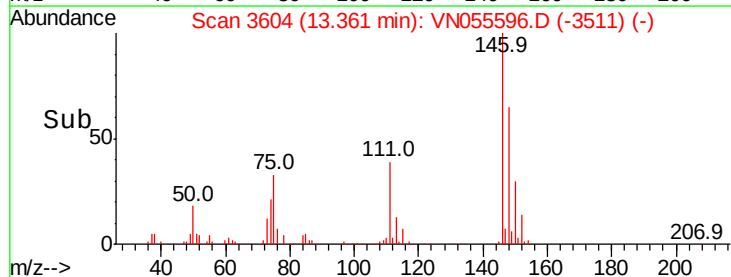
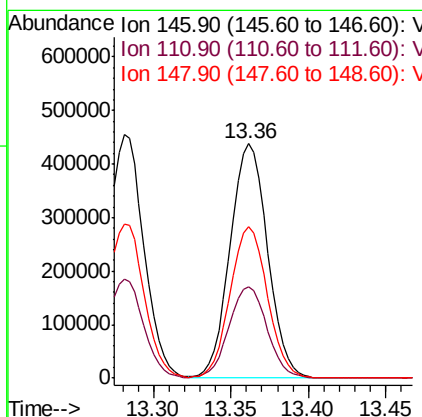
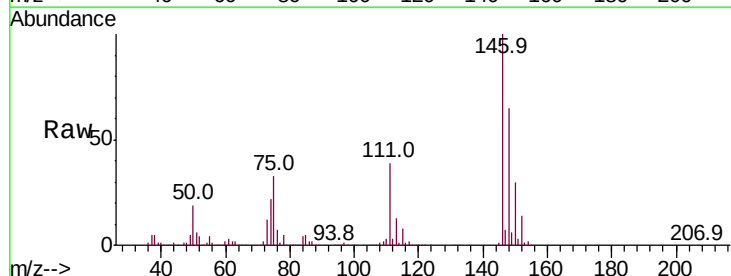
Manual Integrations
 APPROVED

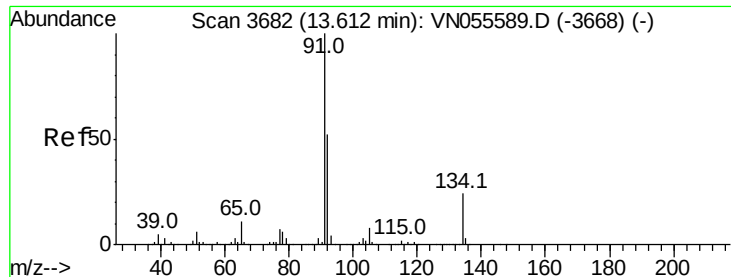
MMDadoda
 5/16/2019 1:32:08 PM



#88
 1,4-Dichlorobenzene
 Concen: 46.936 ug/l
 RT: 13.36 min Scan# 3604
 Delta R.T. 0.00 min
 Lab File: VN055596.D
 Acq: 14 May 2019 16:16

Tgt Ion	Ratio	Lower	Upper
146	100		
111	39.5	19.7	59.0
148	64.6	31.8	95.4





#89

n-Butylbenzene

Concen: 52.058 ug/l

RT: 13.61 min Scan# 3682

Delta R.T. 0.00 min

Lab File: VN055596.D

Acq: 14 May 2019 16:16

Instrument :

MSVOA_N

ClientSampleId :

VSTDCCC050EC

Tot Ion: 91 Resp: 1237836

Ion Ratio Lower Upper

91 100

92 52.4 25.9 77.8

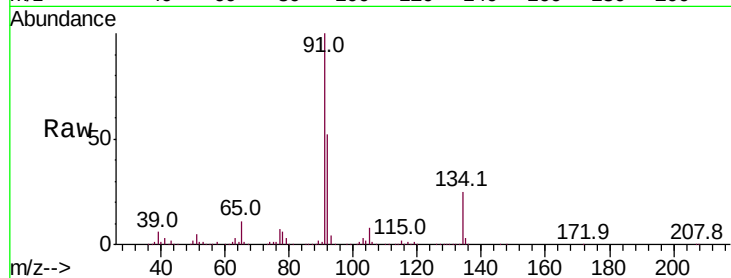
134 24.2 12.2 36.4

Manual Integrations

APPROVED

MMDadoda

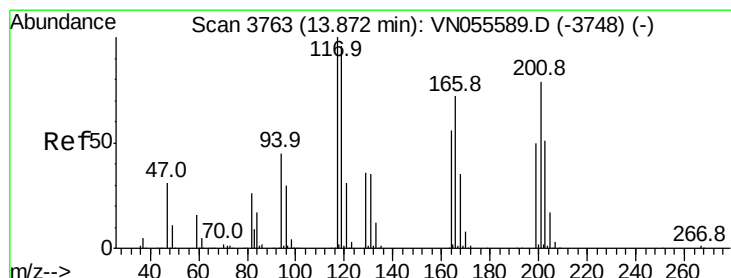
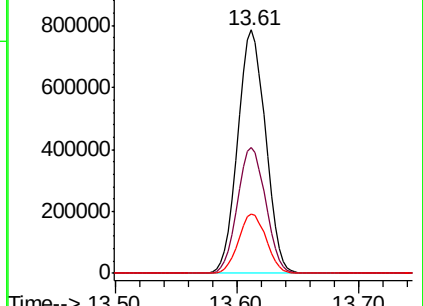
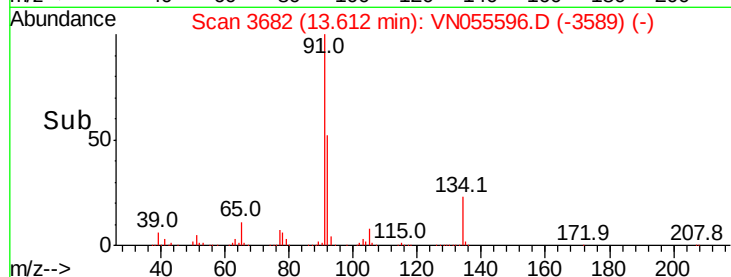
5/16/2019 1:32:08 PM



Abundance Ion 91.00 (90.70 to 91.70): VN055589.D (-3668) (-)

Ion 92.00 (91.70 to 92.70): VN055589.D (-3668) (-)

Ion 134.00 (133.70 to 134.70): VN055589.D (-3668) (-)



#90

Hexachloroethane

Concen: 50.393 ug/l

RT: 13.87 min Scan# 3763

Delta R.T. 0.00 min

Lab File: VN055596.D

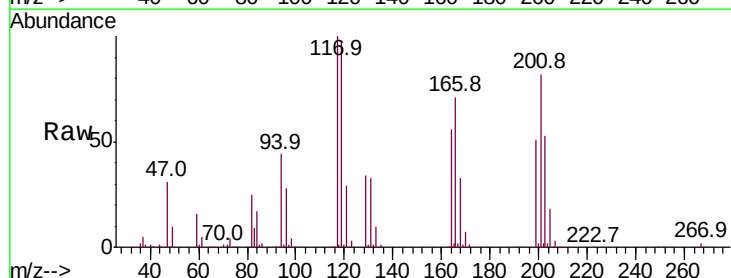
Acq: 14 May 2019 16:16

Tgt Ion: 117 Resp: 251249

Ion Ratio Lower Upper

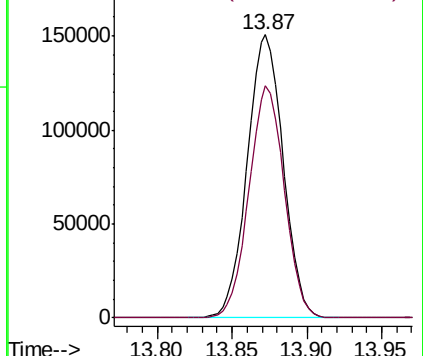
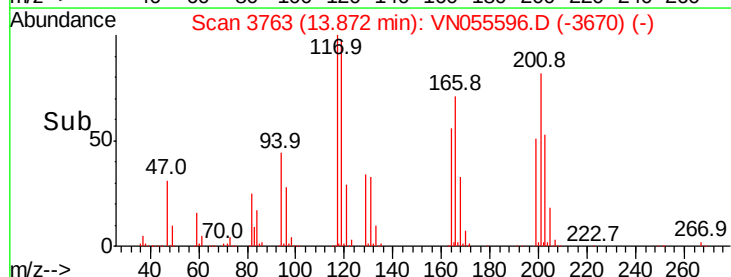
117 100

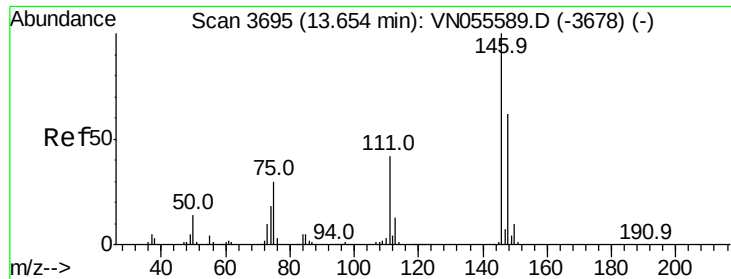
201 80.7 40.6 121.8



Abundance Ion 116.80 (116.50 to 117.50): VN055589.D (-3748) (-)

Ion 200.70 (200.40 to 201.40): VN055589.D (-3748) (-)





#91

1,2-Dichlorobenzene

Concen: 47.034 ug/l

RT: 13.65 min Scan# 3694

Delta R.T. -0.00 min

Lab File: VN055596.D

Acq: 14 May 2019 16:16

Instrument :

MSVOA_N

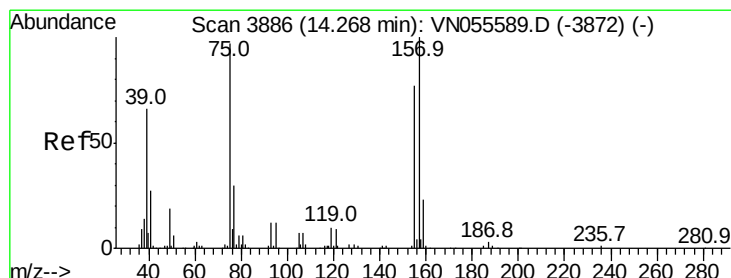
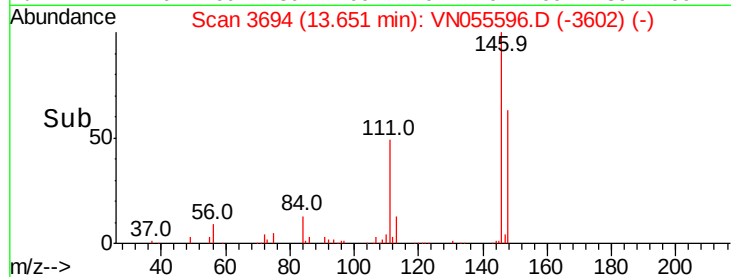
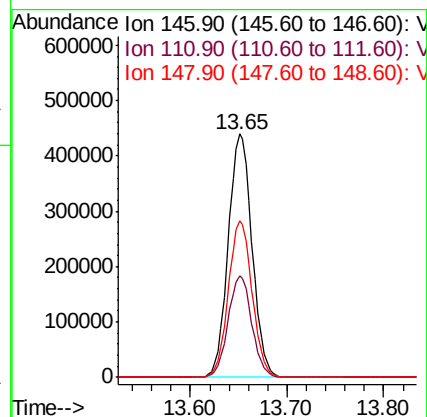
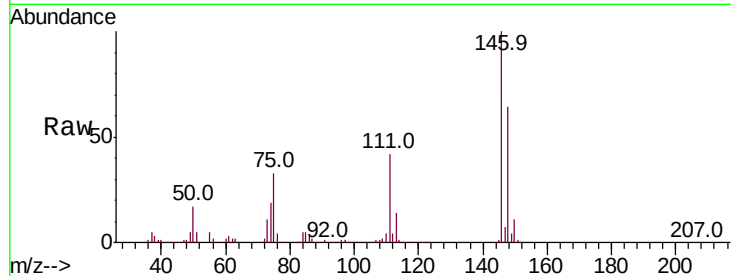
ClientSampleId :

VSTDCCC050EC

Tot Ion:	146	Resp:	748729
Ion Ratio	Lower	Upper	
146	100		
111	41.4	21.0	63.0
148	64.2	31.3	93.9

Manual Integrations
APPROVED

MMDadoda
5/16/2019 1:32:08 PM



#92

1,2-Dibromo-3-Chloropropane

Concen: 46.686 ug/l

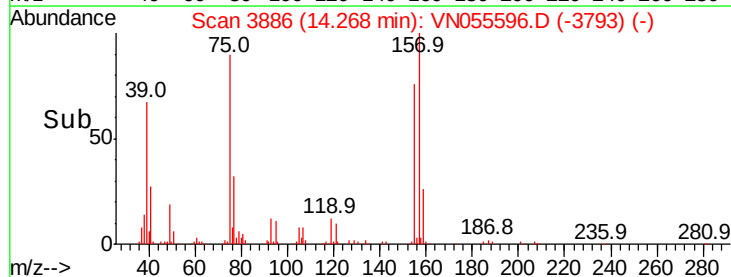
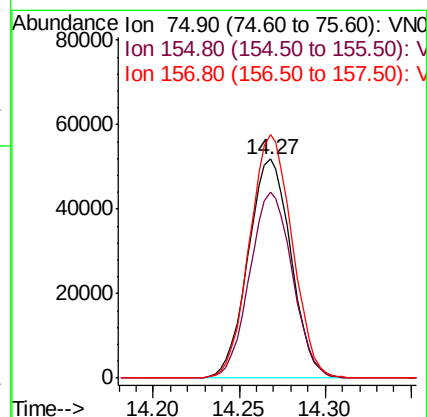
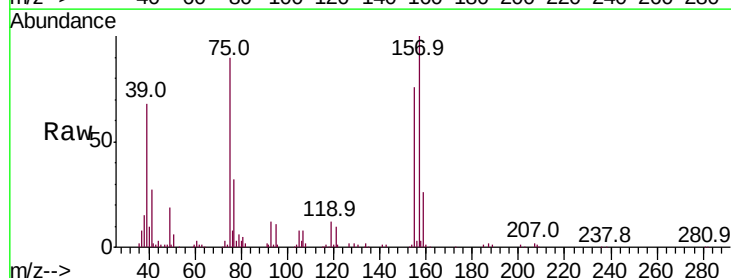
RT: 14.27 min Scan# 3886

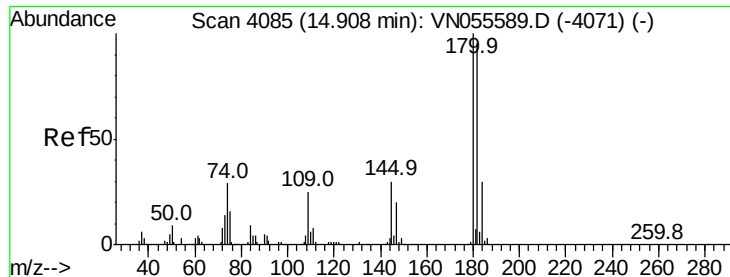
Delta R.T. 0.00 min

Lab File: VN055596.D

Acq: 14 May 2019 16:16

Tgt Ion:	75	Resp:	89677
Ion Ratio	Lower	Upper	
75	100		
155	84.3	40.4	121.1
157	110.4	52.1	156.4





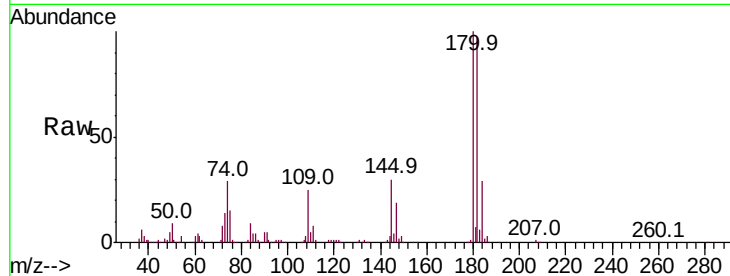
#93
 1,2,4-Trichlorobenzene
 Concen: 46.139 ug/l
 RT: 14.91 min Scan# 4085
 Delta R.T. 0.00 min
 Lab File: VN055596.D
 Acq: 14 May 2019 16:16

Instrument :
 MSVOA_N
 ClientSampleId :
 VSTDCCC050EC

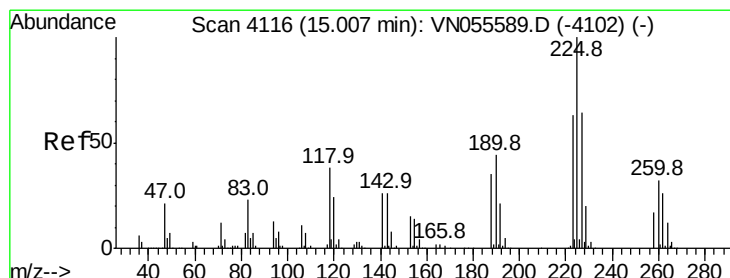
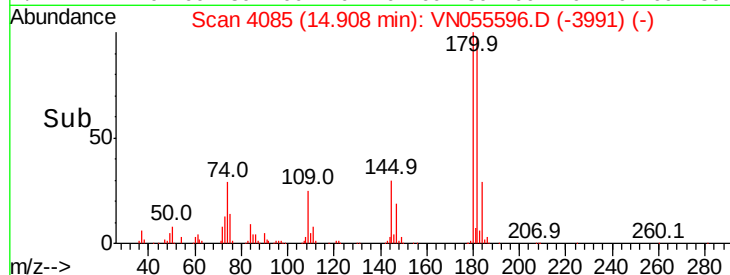
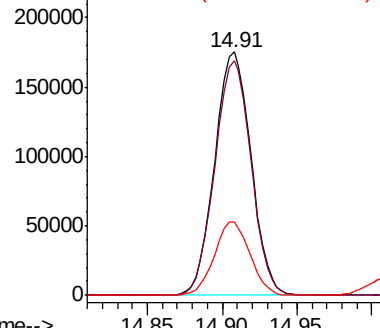
Tot Ion:	180	Resp:	296991
Ion Ratio	Lower	Upper	
180	100		
182	96.1	47.4	142.3
145	29.5	14.9	44.7

Manual Integrations
 APPROVED

MMDadoda
 5/16/2019 1:32:08 PM

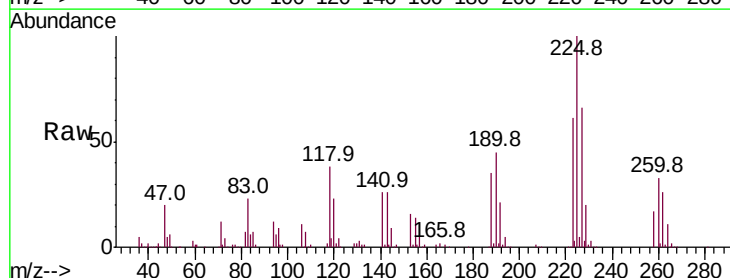


Abundance Ion 179.80 (179.50 to 180.50): V
 Ion 181.80 (181.50 to 182.50): V
 Ion 144.80 (144.50 to 145.50): V

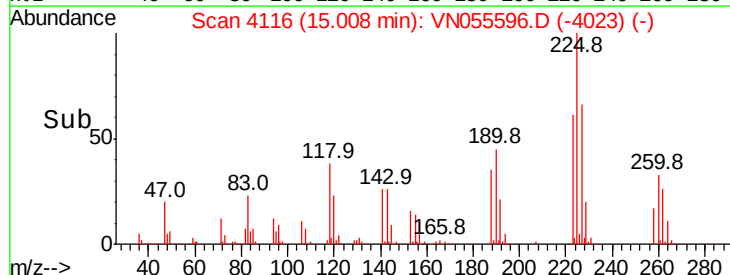
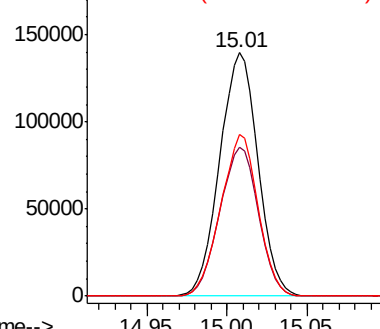


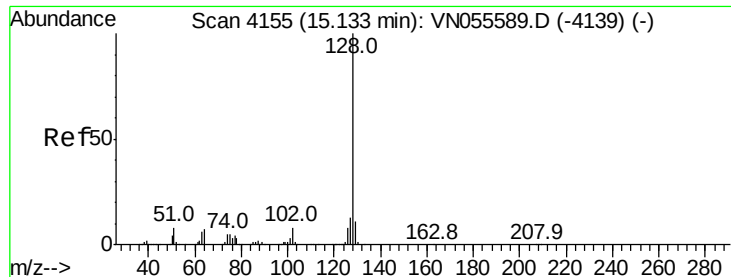
#94
 Hexachlorobutadiene
 Concen: 52.078 ug/l
 RT: 15.01 min Scan# 4116
 Delta R.T. 0.00 min
 Lab File: VN055596.D
 Acq: 14 May 2019 16:16

Tgt Ion:	225	Resp:	227805
Ion Ratio	Lower	Upper	
225	100		
223	62.0	31.6	95.0
227	65.0	32.4	97.0



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





#95

Naphthalene

Concen: 47.048 ug/l

RT: 15.13 min Scan# 4154

Delta R.T. -0.00 min

Lab File: VN055596.D

Acq: 14 May 2019 16:16

Instrument :

MSVOA_N

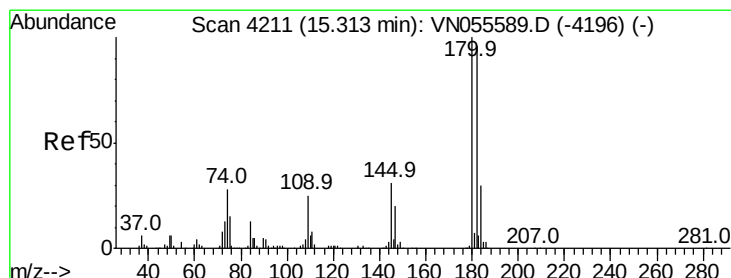
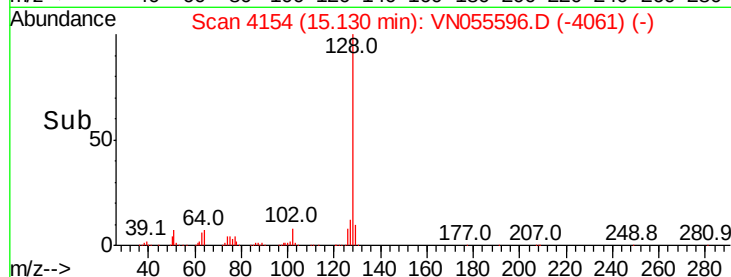
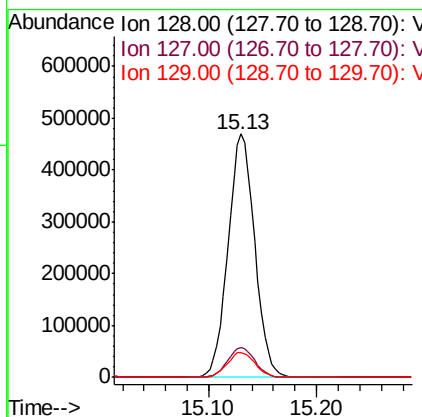
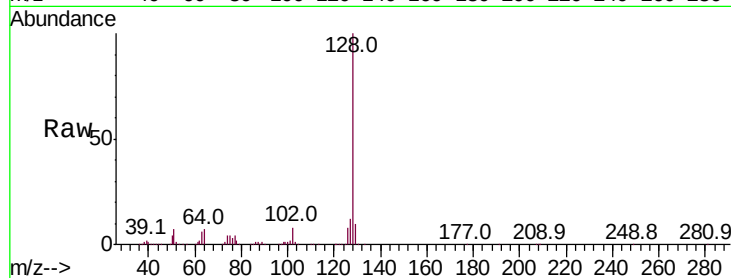
ClientSampleId :

VSTDCCC050EC

Tot Ion:	128	Resp:	808420
Ion Ratio	Lower	Upper	
128	100		
127	12.7	10.4	15.6
129	10.7	8.8	13.2

Manual Integrations
APPROVED

MMDadoda
5/16/2019 1:32:08 PM



#96

1,2,3-Trichlorobenzene

Concen: 47.093 ug/l

RT: 15.31 min Scan# 4210

Delta R.T. -0.00 min

Lab File: VN055596.D

Acq: 14 May 2019 16:16

Tgt Ion:	180	Resp:	322601
Ion Ratio	Lower	Upper	
180	100		
182	95.2	47.9	143.6
145	32.0	15.6	46.7

