

Data Path : Z:\VOASRV\HPCHEM1\MSVOA N\DATA\VN051719\
 Data File : VN055598.D
 Acq On : 17 May 2019 9:29
 Operator : JC/SP
 Sample : VSTDIC001
 Misc : 5.00mL/MSVOA N/WATER
 ALS Vial : 3 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 VSTDIC001

Manual Integrations
 APPROVED

MMDadoda
 5/20/2019 9:09:45 AM

Quant Time: May 17 23:55:59 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_N\METHODS\82N051719W.M
 Quant Title : SW846 8260
 QLast Update : Fri May 17 23:16:47 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	7.67	168	322139	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	8.59	114	478576	50.00	ug/l	0.00
63) Chlorobenzene-d5	11.41	117	389146	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.34	152	141559	50.00	ug/l	0.00

System Monitoring Compounds

33) 1,2-Dichloroethane-d4	0.00	65	0d	0.00	ug/l	
Spiked Amount	50.000		Recovery	=	0.00%	
35) Dibromofluoromethane	0.00	113	0d	0.00	ug/l	
Spiked Amount	50.000		Recovery	=	0.00%	
50) Toluene-d8	0.00	98	0d	0.00	ug/l	
Spiked Amount	50.000		Recovery	=	0.00%	
62) 4-Bromofluorobenzene	0.00	95	0d	0.00	ug/l	
Spiked Amount	50.000		Recovery	=	0.00%	

Target Compounds

						Qvalue
2) Dichlorodifluoromethane	1.85	85	2992	1.101	ug/l	99
3) Chloromethane	2.06	50	3918	1.154	ug/l	97
4) Vinyl Chloride	2.18	62	4104	1.116	ug/l	91
6) Chloroethane	2.71	64	2063	0.878	ug/l	96
7) Trichlorofluoromethane	3.03	101	4954	0.953	ug/l	95
8) Diethyl Ether	3.42	74	1827	0.972	ug/l	84
9) 1,1,2-Trichlorotrifluoroet	3.77	101	3032	0.961	ug/l	97
12) 1,1-Dichloroethene	3.74	96	3290	1.106	ug/l	96
14) Allyl chloride	4.32	41	4978	1.091	ug/l #	86
15) Acrylonitrile	5.00	53	6780	6.138	ug/l #	91
16) Acetone	3.81	43	7866	7.868	ug/l	100
17) Carbon Disulfide	4.07	76	9125	1.007	ug/l	99
18) Methyl Acetate	4.33	43	3318	1.434	ug/l #	79
19) Methyl tert-butyl Ether	5.04	73	10385	1.320	ug/l	99
20) Methylene Chloride	4.55	84	3783	1.123	ug/l #	93
21) trans-1,2-Dichloroethene	5.04	96	3378	1.082	ug/l	87
22) Diisopropyl ether	5.95	45	9969	1.174	ug/l	92
23) Vinyl Acetate	5.90	43	38742	6.124	ug/l	100
24) 1,1-Dichloroethane	5.86	63	5717m	1.007	ug/l	
25) 2-Butanone	6.84	43	9812	7.482	ug/l	99
26) 2,2-Dichloropropane	6.83	77	5579	1.269	ug/l	77
27) cis-1,2-Dichloroethene	6.83	96	3978	1.133	ug/l	92
28) Bromochloromethane	7.19	49	2304	0.929	ug/l #	98
29) Tetrahydrofuran	7.21	42	7330	8.675	ug/l	92
30) Chloroform	7.37	83	6308	1.106	ug/l	91
32) 1,1,1-Trichloroethane	7.57	97	5822	1.185	ug/l #	48
36) 1,1-Dichloropropene	7.79	75	4930	1.127	ug/l	96
37) Ethyl Acetate	6.94	43	3497	1.308	ug/l #	82
38) Carbon Tetrachloride	7.78	117	5540m	1.179	ug/l	
39) Methylcyclohexane	9.08	83	5787	1.154	ug/l	99
40) Benzene	8.05	78	13235	1.030	ug/l	99
41) Methacrylonitrile	7.17	41	1527	1.117	ug/l #	100
42) 1,2-Dichloroethane	8.13	62	4044	1.033	ug/l	92
43) Isopropyl Acetate	8.17	43	6881	1.360	ug/l #	83

Data Path : Z:\VOASRV\HPCHEM1\MSVOA N\DATA\VN051719\
 Data File : VN055598.D
 Acq On : 17 May 2019 9:29
 Operator : JC/SP
 Sample : VSTDIC001
 Misc : 5.00mL/MSVOA N/WATER
 ALS Vial : 3 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 VSTDIC001

Manual Integrations
 APPROVED

MMDadoda
 5/20/2019 9:09:45 AM

Quant Time: May 17 23:55:59 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_N\METHODS\82N051719W.M
 Quant Title : SW846 8260
 QLast Update : Fri May 17 23:16:47 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
44) Trichloroethene	8.83	130	3719	1.032	ug/l	92
45) 1,2-Dichloropropane	9.12	63	3443	1.043	ug/l	99
46) Dibromomethane	9.21	93	2187	1.085	ug/l	97
47) Bromodichloromethane	9.40	83	5120	1.211	ug/l #	97
48) Methyl methacrylate	9.20	41	2537	1.165	ug/l #	75
49) 1,4-Dioxane	9.20	88	1132	32.060	ug/l #	71
51) 4-Methyl-2-Pentanone	9.99	43	19837	8.224	ug/l	100
52) Toluene	10.15	92	8534	1.123	ug/l	98
53) t-1,3-Dichloropropene	10.38	75	4646	1.114	ug/l	100
54) cis-1,3-Dichloropropene	9.84	75	5246	1.090	ug/l #	91
55) 1,1,2-Trichloroethane	10.56	97	3714	1.309	ug/l	92
56) Ethyl methacrylate	10.43	69	5631	1.660	ug/l	93
57) 1,3-Dichloropropane	10.71	76	5253	1.118	ug/l	98
58) 2-Chloroethyl Vinyl ether	9.70	63	9497	6.359	ug/l	100
59) 2-Hexanone	10.75	43	12927	7.798	ug/l	99
60) Dibromochloromethane	10.90	129	3693	1.123	ug/l	100
61) 1,2-Dibromoethane	11.00	107	3231	1.144	ug/l	97
64) Tetrachloroethene	10.63	164	3241	0.947	ug/l	87
65) Chlorobenzene	11.43	112	8512	1.048	ug/l	99
66) 1,1,1,2-Tetrachloroethane	11.51	131	3514	1.175	ug/l #	64
67) Ethyl Benzene	11.51	91	15480	1.169	ug/l	95
68) m/p-Xylenes	11.62	106	11385	2.235	ug/l	100
69) o-Xylene	11.95	106	5717	1.163	ug/l	99
70) Styrene	11.96	104	8565	1.100	ug/l	99
71) Bromoform	12.13	173	2626	1.189	ug/l #	98
73) Isopropylbenzene	12.25	105	15078	1.504	ug/l	99
74) N-amyl acetate	12.07	43	3593	1.403	ug/l #	91
75) 1,1,2,2-Tetrachloroethane	12.50	83	4745	1.895	ug/l	97
76) 1,2,3-Trichloropropane	12.55	75	3216m	1.479	ug/l	
77) Bromobenzene	12.53	156	3480	1.298	ug/l	94
78) n-propylbenzene	12.59	91	15704	1.407	ug/l	99
79) 2-Chlorotoluene	12.67	91	9862	1.462	ug/l	97
80) 1,3,5-Trimethylbenzene	12.73	105	12535	1.507	ug/l	99
82) 4-Chlorotoluene	12.77	91	9047	1.348	ug/l	99
83) tert-Butylbenzene	12.99	119	11309	1.521	ug/l	97
84) 1,2,4-Trimethylbenzene	13.04	105	11966	1.441	ug/l	100
85) sec-Butylbenzene	13.17	105	13704	1.377	ug/l	100
86) p-Isopropyltoluene	13.29	119	12634	1.453	ug/l	97
87) 1,3-Dichlorobenzene	13.28	146	5500	1.180	ug/l	97
88) 1,4-Dichlorobenzene	13.36	146	4885m	1.042	ug/l	
89) n-Butylbenzene	13.62	91	8366	1.173	ug/l	98
90) Hexachloroethane	13.87	117	2343	1.383	ug/l	99
91) 1,2-Dichlorobenzene	13.65	146	5631	1.229	ug/l	97
92) 1,2-Dibromo-3-Chloropropan	14.27	75	648	1.640	ug/l	91
93) 1,2,4-Trichlorobenzene	14.91	180	1926	0.804	ug/l	92
94) Hexachlorobutadiene	15.01	225	2058	1.081	ug/l	93
95) Naphthalene	15.13	128	5336	1.108	ug/l #	93
96) 1,2,3-Trichlorobenzene	15.31	180	2387	1.022	ug/l	99

Data Path : Z:\VOASRV\HPCHEM1\MSVOA N\DATA\VN051719\
Data File : VN055598.D
Acq On : 17 May 2019 9:29
Operator : JC/SP
Sample : VSTDICC001
Misc : 5.00mL/MSVOA N/WATER
ALS Vial : 3 Sample Multiplier: 1

Instrument :
MSVOA_N
ClientSampleId :
VSTDICC001

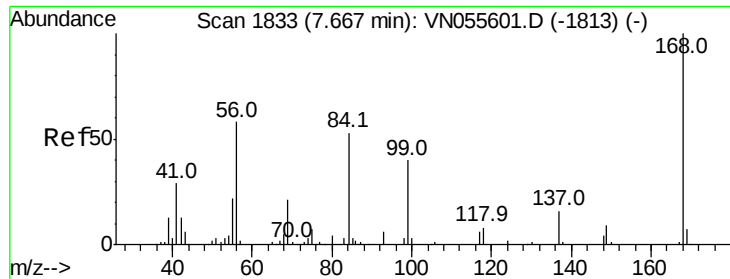
Manual Integrations
APPROVED

MMDadoda
5/20/2019 9:09:45 AM

Quant Time: May 17 23:55:59 2019
Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_N\METHODS\82N051719W.M
Quant Title : SW846 8260
QLast Update : Fri May 17 23:16:47 2019
Response via : Initial Calibration

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

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



#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 7.67 min Scan# 1833

Delta R.T. -0.00 min

Lab File: VN055598.D

Acq: 17 May 2019 9:29

Instrument :

MSVOA_N

ClientSampleId :

VSTDIC001

Tot Ion:168 Resp: 322139

Ion Ratio Lower Upper

168 100

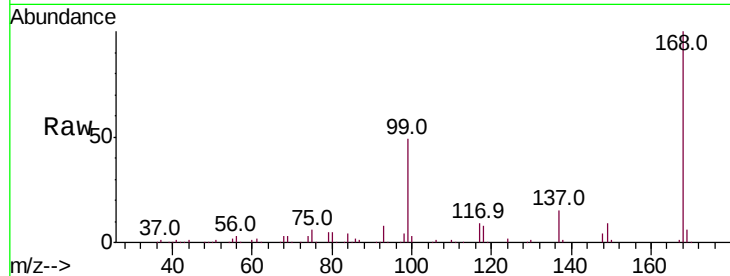
99 48.7 40.2 60.2

Manual Integrations

APPROVED

MMDadoda

5/20/2019 9:09:45 AM



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VN

7.67

150000

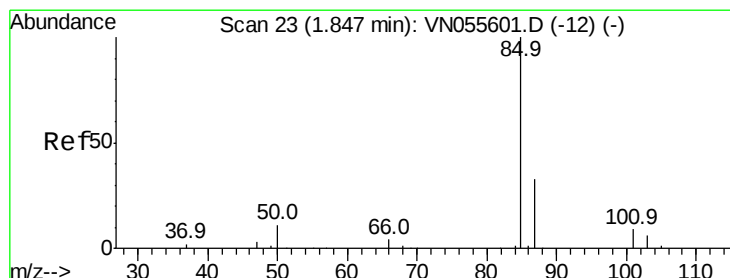
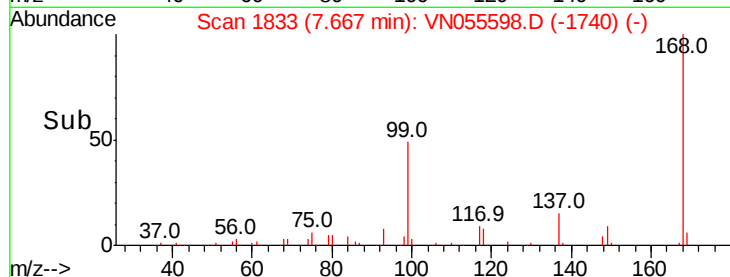
100000

50000

0

7.60 7.70 7.80

Time-->



#2

Dichlorodifluoromethane

Concen: 1.101 ug/l

RT: 1.85 min Scan# 24

Delta R.T. 0.00 min

Lab File: VN055598.D

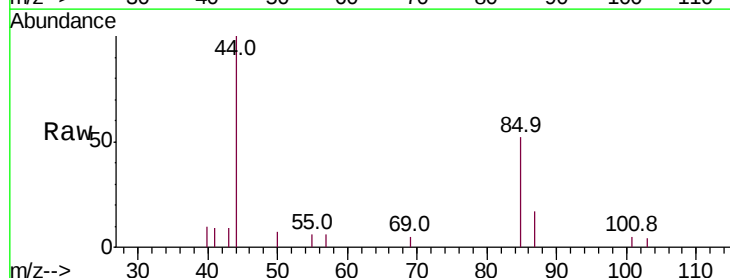
Acq: 17 May 2019 9:29

Tgt Ion: 85 Resp: 2992

Ion Ratio Lower Upper

85 100

87 33.4 16.6 49.7



Abundance Ion 84.90 (84.60 to 85.60): VN

Ion 86.90 (86.60 to 87.60): VN

1.85

2000

1500

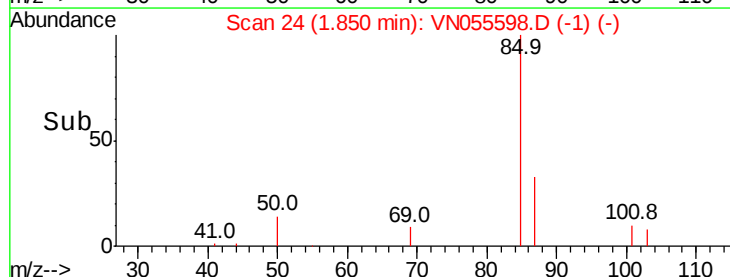
1000

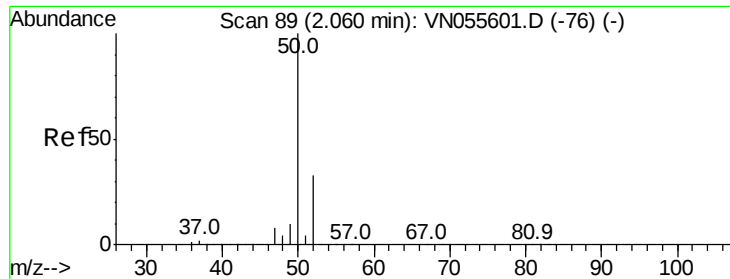
500

0

1.80 1.85 1.90

Time-->





#3

Chloromethane

Concen: 1.154 ug/l

RT: 2.06 min Scan# 89

Delta R.T. -0.00 min

Lab File: VN055598.D

Acq: 17 May 2019 9:29

Instrument :

MSVOA_N

ClientSampleId :

VSTDIC001

Tot Ion: 50 Resp: 3918

Ion Ratio Lower Upper

50 100

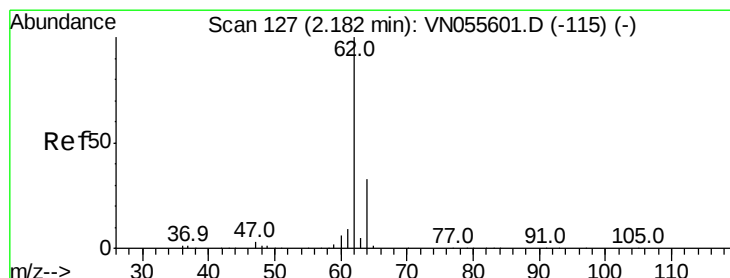
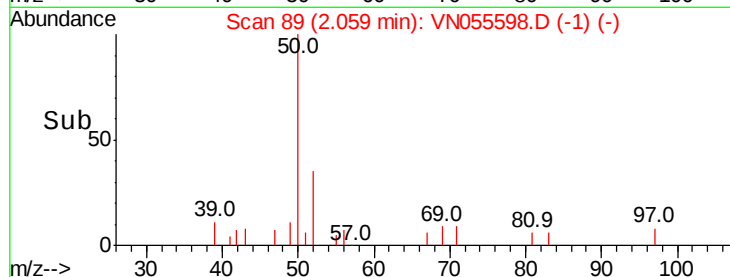
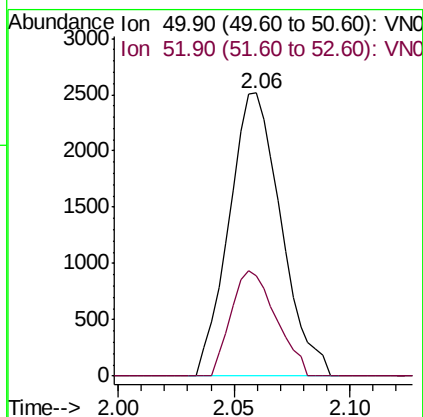
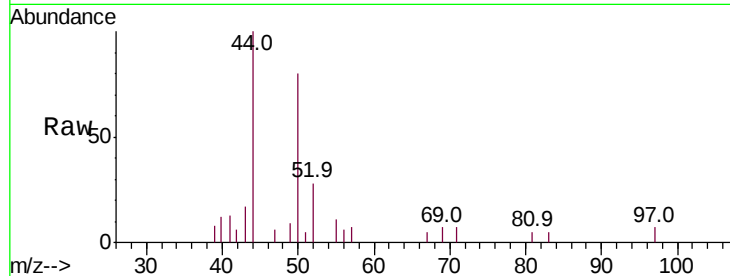
52 35.4 26.7 40.1

Manual Integrations

APPROVED

MMDadoda

5/20/2019 9:09:45 AM



#4

Vinyl Chloride

Concen: 1.116 ug/l

RT: 2.18 min Scan# 128

Delta R.T. 0.00 min

Lab File: VN055598.D

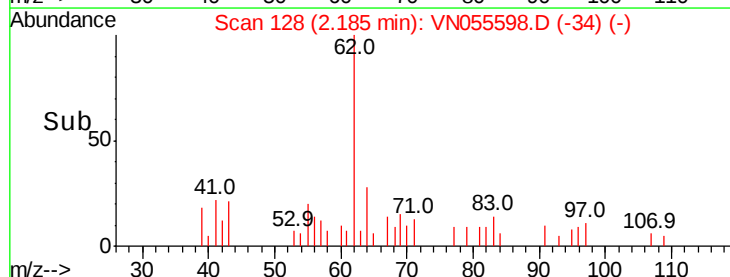
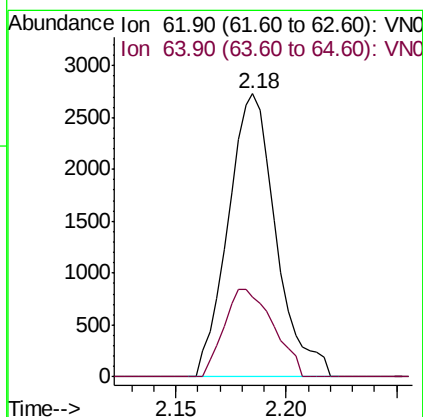
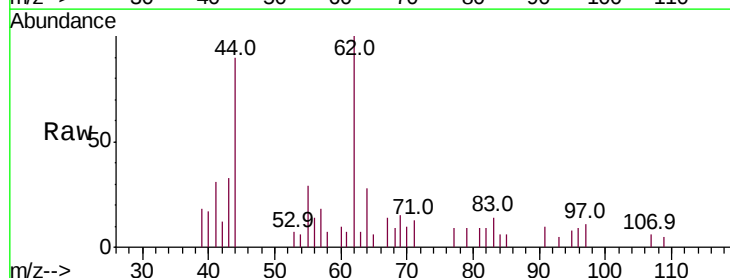
Acq: 17 May 2019 9:29

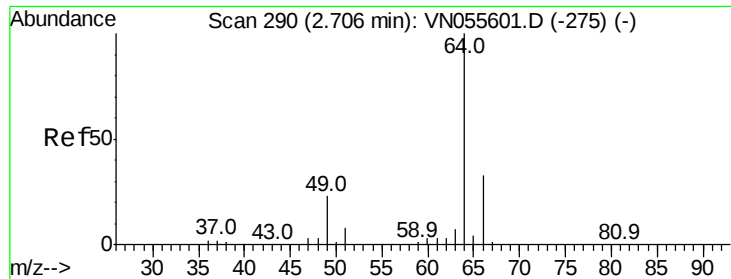
Tgt Ion: 62 Resp: 4104

Ion Ratio Lower Upper

62 100

64 28.0 26.2 39.4





#6

Chloroethane

Concen: 0.878 ug/l

RT: 2.71 min Scan# 290

Delta R.T. -0.00 min

Lab File: VN055598.D

Acq: 17 May 2019 9:29

Instrument :

MSVOA_N

ClientSampled :

VSTDIC001

Tot Ion: 64 Resp: 2063

Ion Ratio Lower Upper

64 100

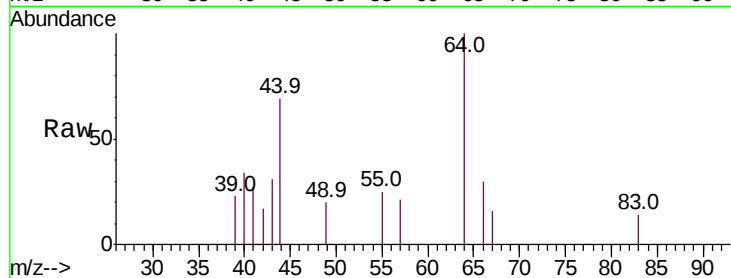
66 30.5 26.2 39.4

Manual Integrations

APPROVED

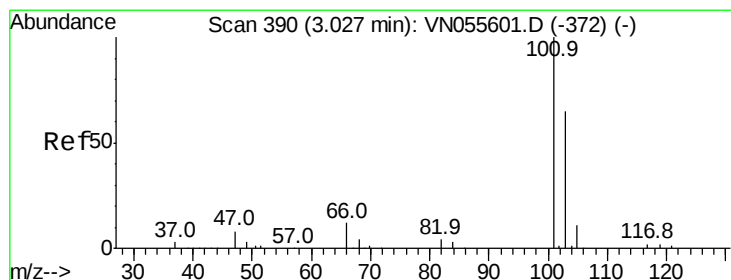
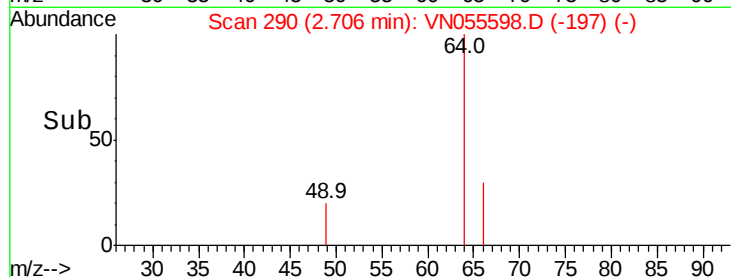
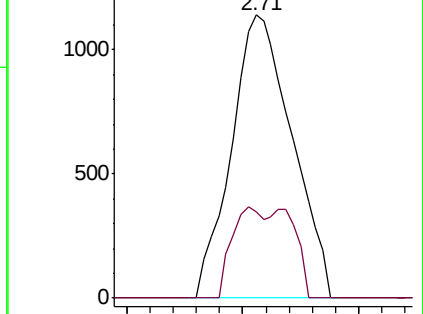
MMDadoda

5/20/2019 9:09:45 AM



Abundance Ion 63.90 (63.60 to 64.60): VN055598.D (-297) (-)

Ion 65.90 (65.60 to 66.60): VN055598.D (-297) (-)



#7

Trichlorofluoromethane

Concen: 0.953 ug/l

RT: 3.03 min Scan# 390

Delta R.T. -0.00 min

Lab File: VN055598.D

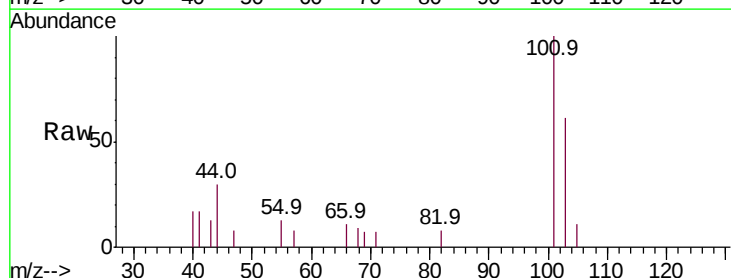
Acq: 17 May 2019 9:29

Tgt Ion: 101 Resp: 4954

Ion Ratio Lower Upper

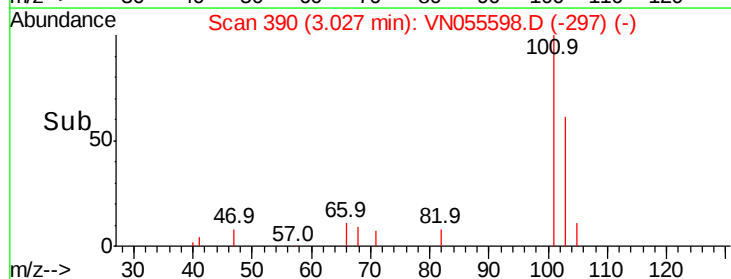
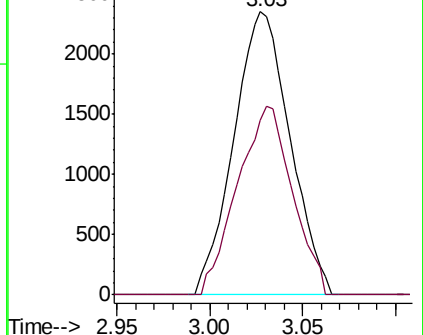
101 100

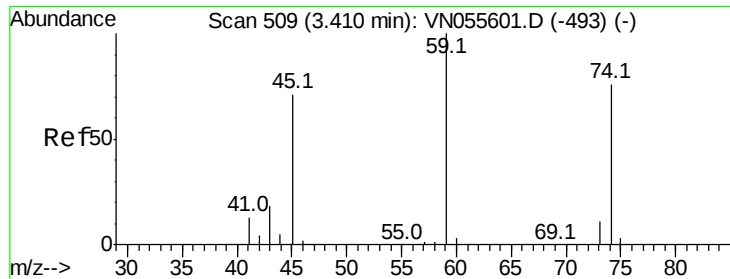
103 61.4 52.3 78.5



Abundance Ion 100.90 (100.60 to 101.60): VN055598.D (-297) (-)

Ion 102.80 (102.50 to 103.50): VN055598.D (-297) (-)





#8

Diethyl Ether

Concen: 0.972 ug/l

RT: 3.42 min Scan# 512

Delta R.T. 0.01 min

Lab File: VN055598.D

Acq: 17 May 2019 9:29

Instrument :

MSVOA_N

ClientSampled :

VSTDIC001

Tot Ion: 74 Resp: 1827

Ion Ratio Lower Upper

74 100

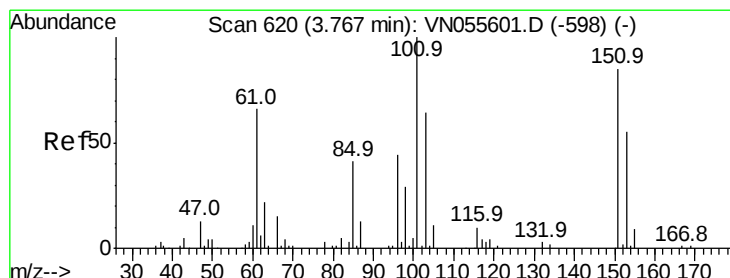
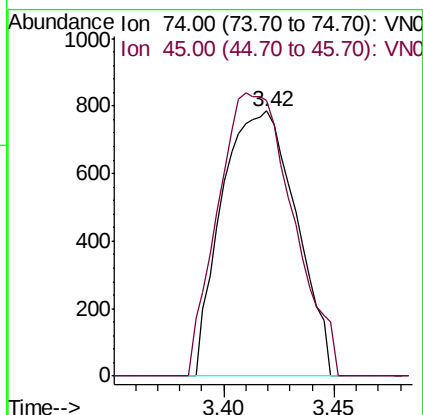
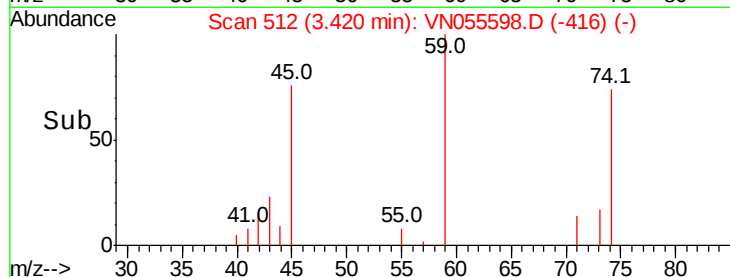
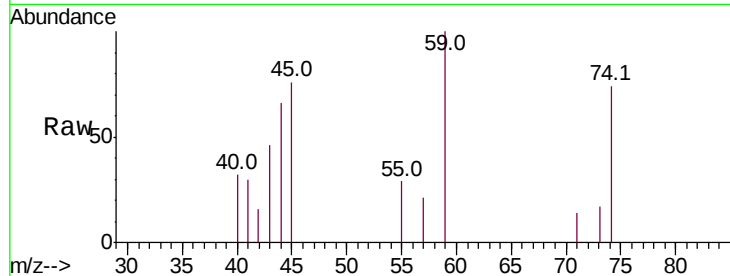
45 108.0 46.4 139.2

Manual Integrations

APPROVED

MMDadoda

5/20/2019 9:09:45 AM



#9

1,1,2-Trichlorotrifluoroethane

Concen: 0.961 ug/l

RT: 3.77 min Scan# 621

Delta R.T. 0.00 min

Lab File: VN055598.D

Acq: 17 May 2019 9:29

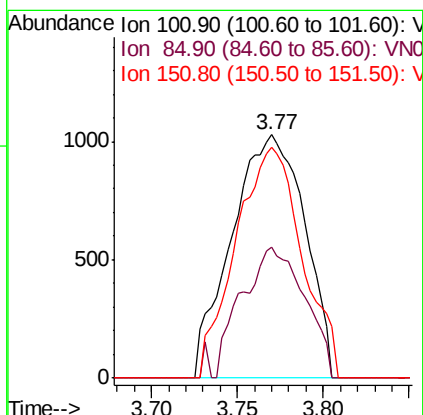
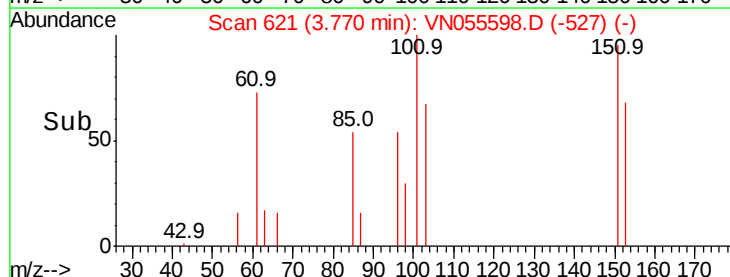
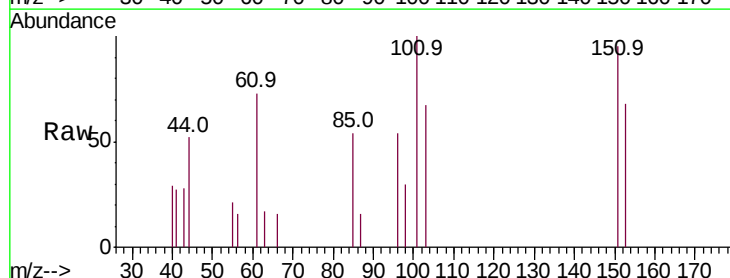
Tgt Ion: 101 Resp: 3032

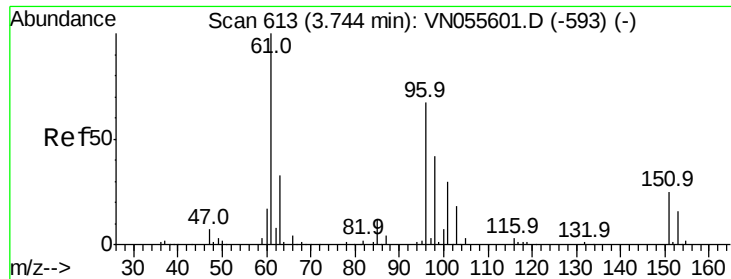
Ion Ratio Lower Upper

101 100

85 46.5 33.4 50.0

151 86.2 69.3 103.9





#12

1,1-Dichloroethene

Concen: 1.106 ug/l

RT: 3.74 min Scan# 612

Delta R.T. -0.00 min

Lab File: VN055598.D

Acq: 17 May 2019 9:29

Instrument :

MSVOA_N

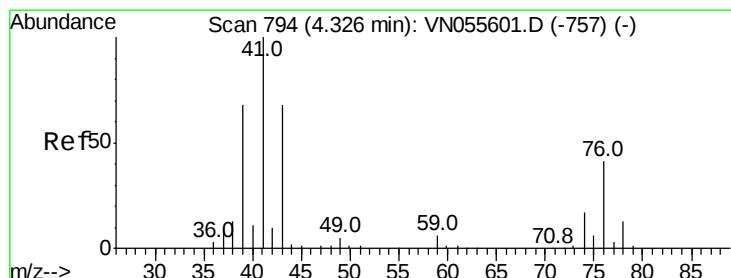
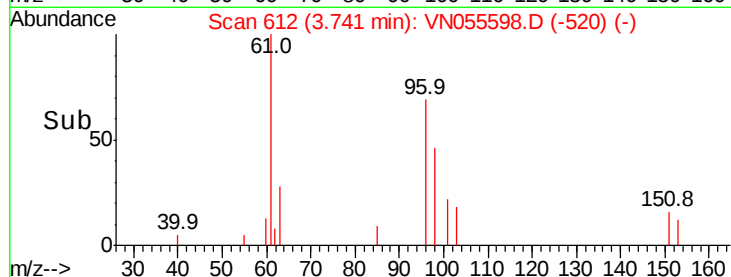
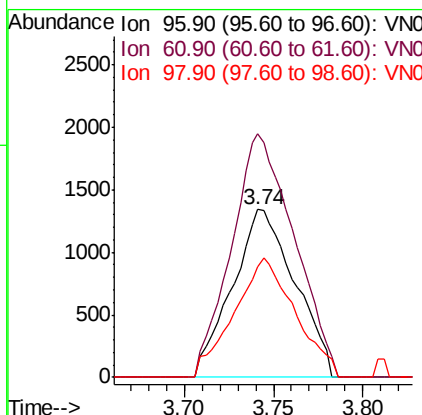
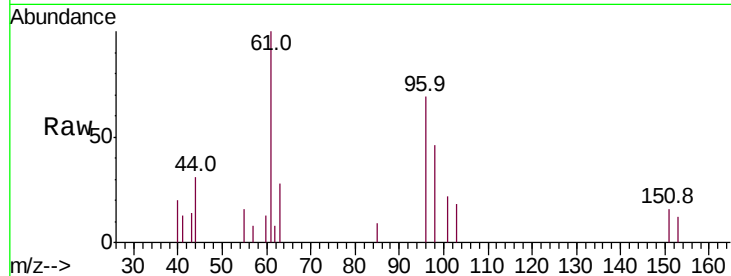
ClientSampleId :

VSTDIC001

Tot Ion:	96	Resp:	3290
Ion	Ratio	Lower	Upper
96	100		
61	145.1	120.2	180.2
98	66.2	50.6	75.8

Manual Integrations
APPROVED

MMDadoda
5/20/2019 9:09:45 AM



#14

Allyl chloride

Concen: 1.091 ug/l

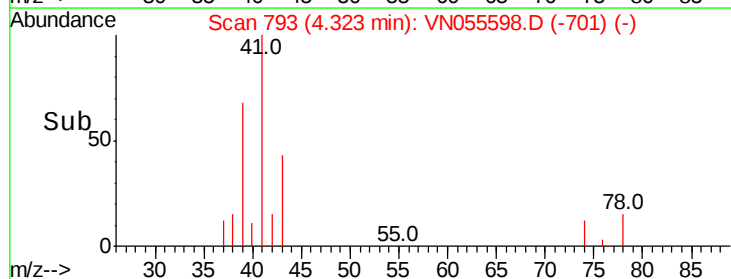
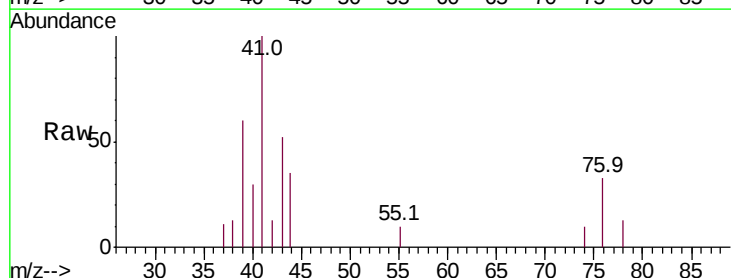
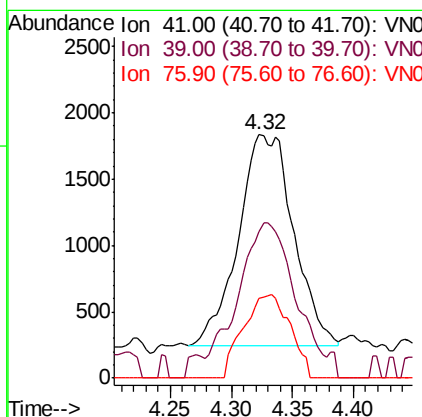
RT: 4.32 min Scan# 793

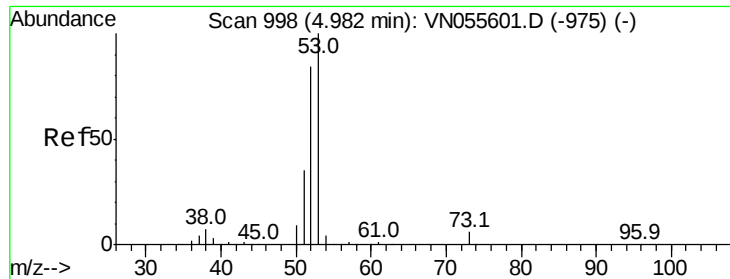
Delta R.T. -0.00 min

Lab File: VN055598.D

Acq: 17 May 2019 9:29

Tgt Ion:	41	Resp:	4978
Ion	Ratio	Lower	Upper
41	100		
39	78.4	50.5	75.7#
76	33.5	29.2	43.8





#15

Acrylonitrile

Concen: 6.138 ug/l

RT: 5.00 min Scan# 1002

Delta R.T. 0.01 min

Lab File: VN055598.D

Acq: 17 May 2019 9:29

Instrument :

MSVOA_N

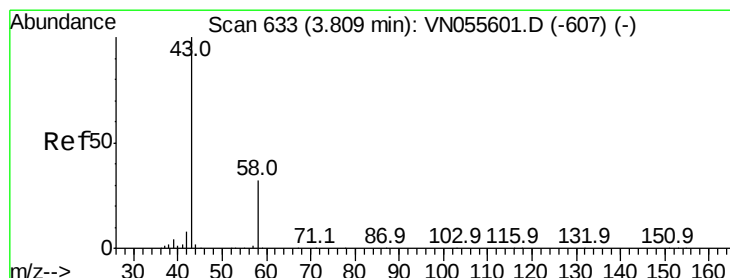
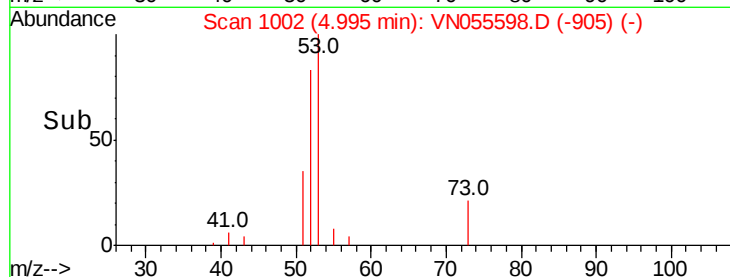
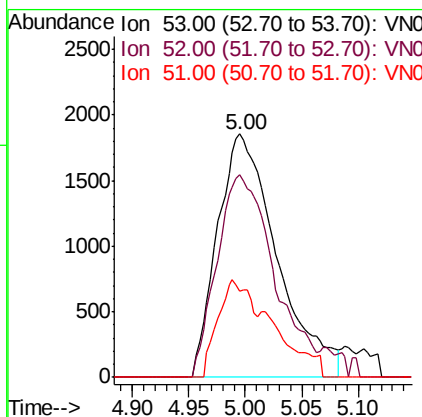
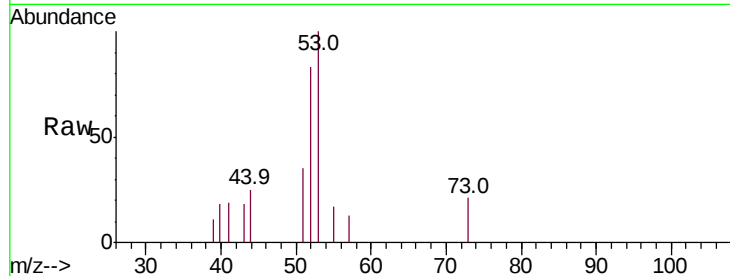
ClientSampleId :

VSTDIC001

Tot Ion:	53	Resp:	6780
Ion	Ratio	Lower	Upper
53	100		
52	79.7	66.2	99.4
51	23.0	28.5	42.7#

Manual Integrations
APPROVED

MMDadoda
5/20/2019 9:09:45 AM



#16

Acetone

Concen: 7.868 ug/l

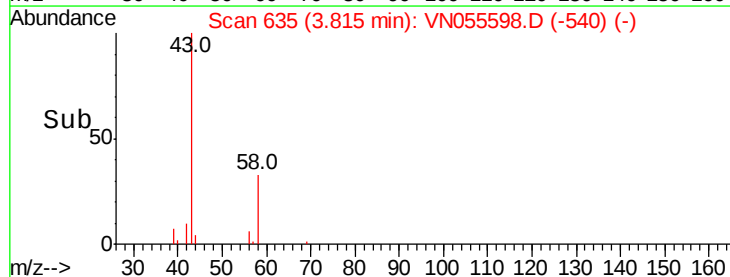
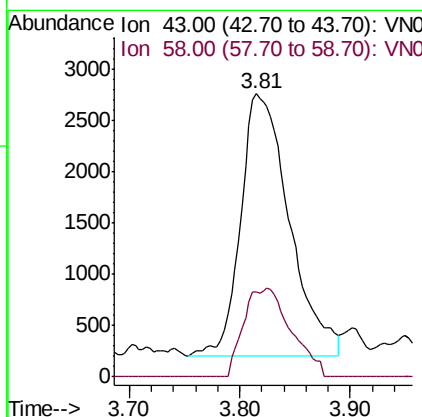
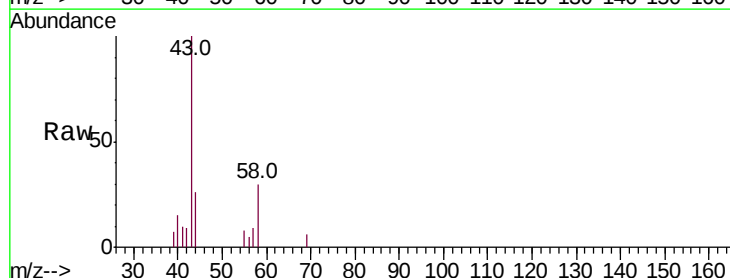
RT: 3.81 min Scan# 635

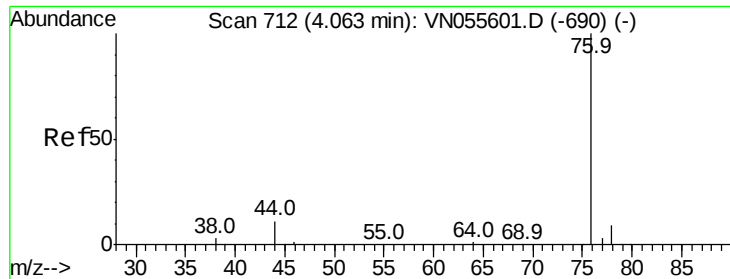
Delta R.T. 0.01 min

Lab File: VN055598.D

Acq: 17 May 2019 9:29

Tgt Ion:	43	Resp:	7866
Ion	Ratio	Lower	Upper
43	100		
58	32.3	26.0	39.0





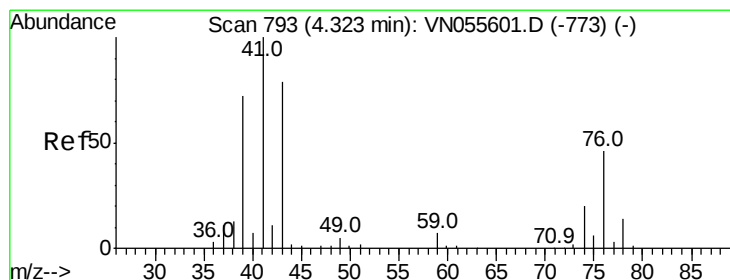
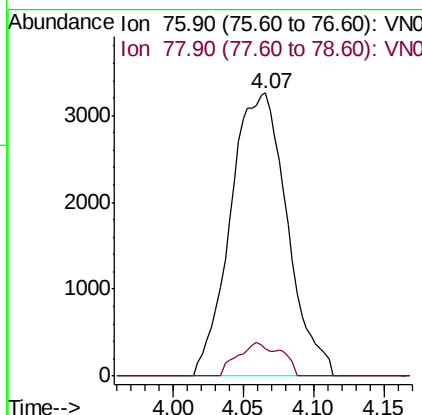
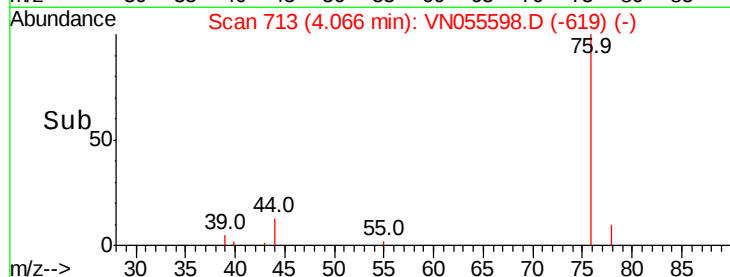
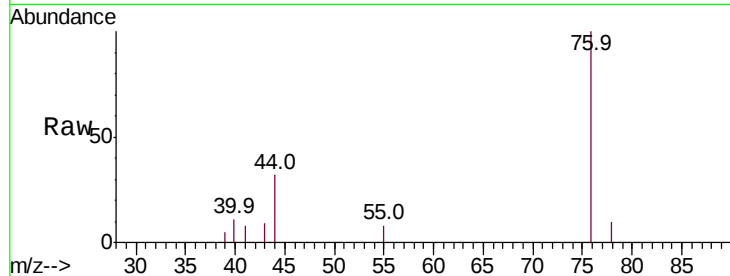
#17
Carbon Disulfide
Concen: 1.007 ug/l
RT: 4.07 min Scan# 713
Delta R.T. 0.00 min
Lab File: VN055598.D
Acq: 17 May 2019 9:29

Instrument :
MSVOA_N
ClientSampleId :
VSTDIC001

Tot Ion	Ratio	Lower	Upper
76	100		
78	9.6	7.3	10.9

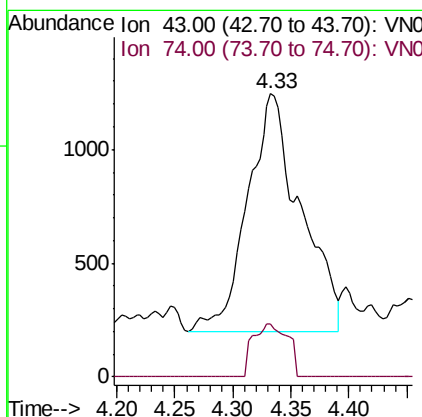
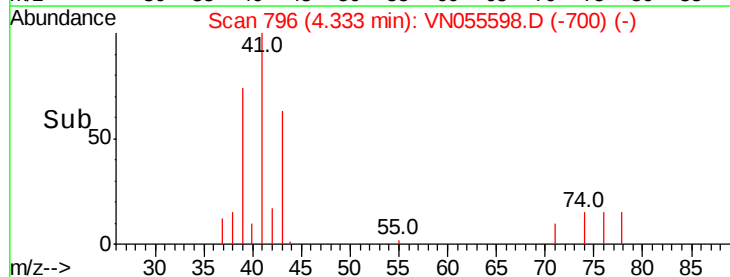
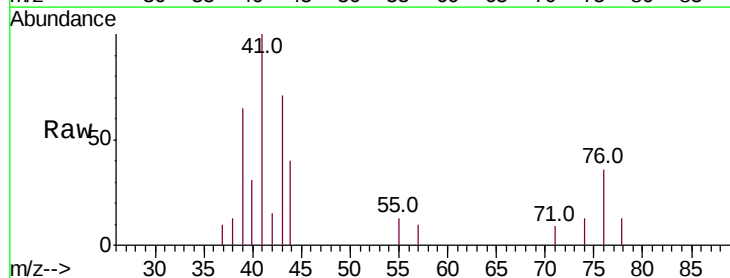
Manual Integrations
APPROVED

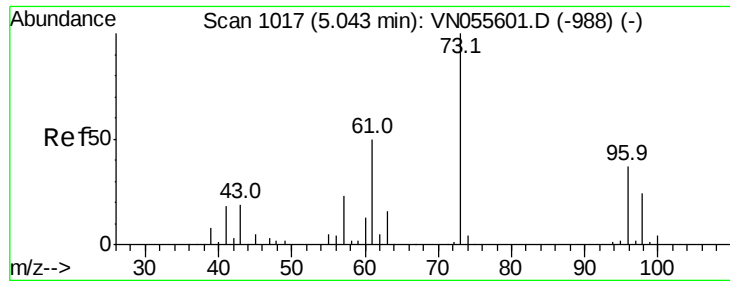
MMDadoda
5/20/2019 9:09:45 AM



#18
Methyl Acetate
Concen: 1.434 ug/l
RT: 4.33 min Scan# 796
Delta R.T. 0.01 min
Lab File: VN055598.D
Acq: 17 May 2019 9:29

Tgt Ion	Ratio	Lower	Upper
43	100		
74	14.6	19.9	29.9#





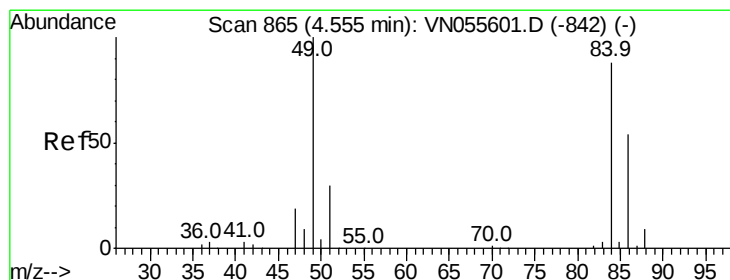
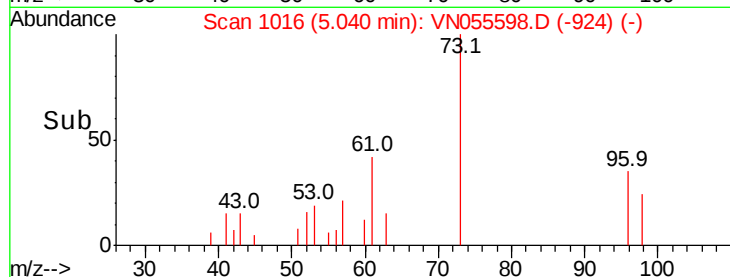
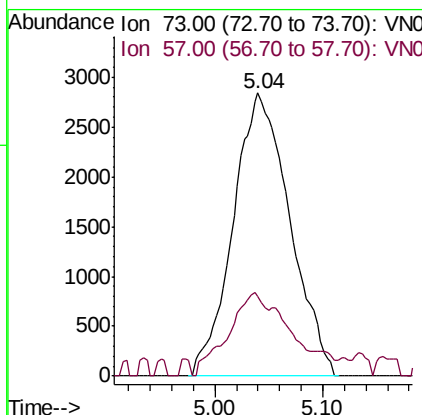
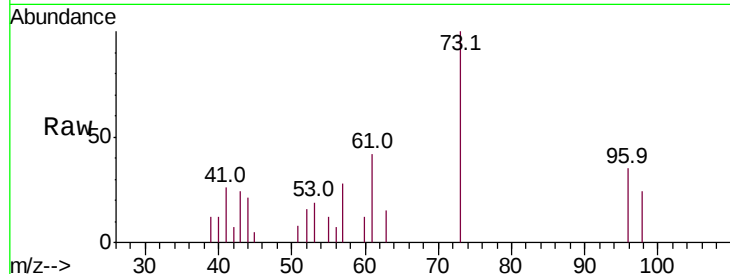
#19
Methyl tert-butyl Ether
Concen: 1.320 ug/l
RT: 5.04 min Scan# 1016
Delta R.T. -0.00 min
Lab File: VN055598.D
Acq: 17 May 2019 9:29

Instrument :
MSVOA_N
ClientSampleId :
VSTDIC001

Tot Ion: 73 Resp: 10385
Ion Ratio Lower Upper
73 100
57 22.4 18.2 27.2

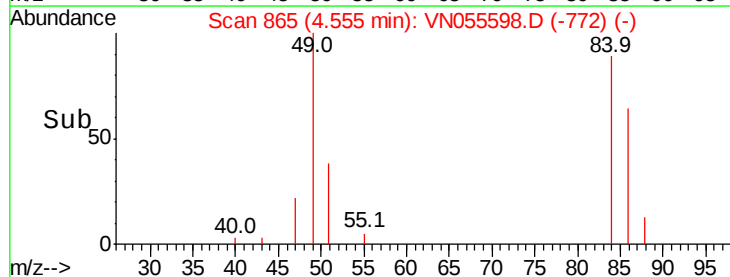
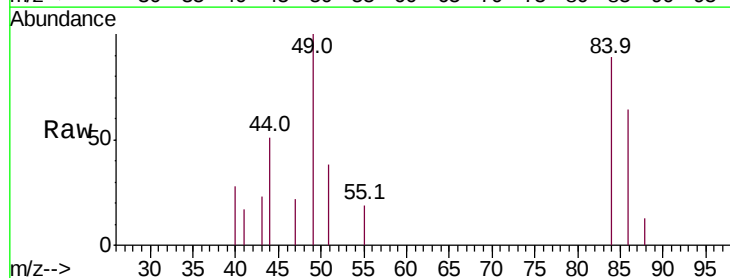
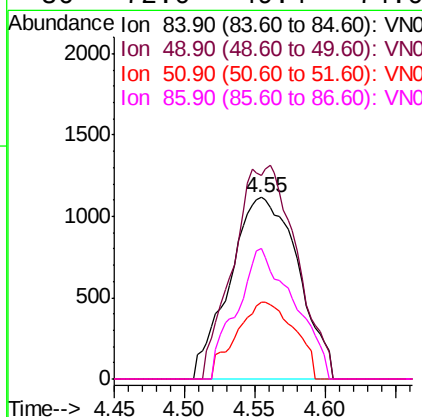
Manual Integrations
APPROVED

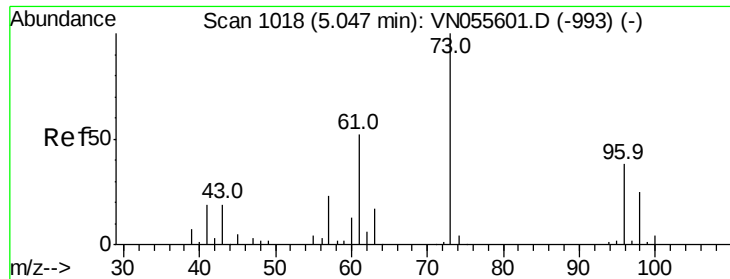
MMDadoda
5/20/2019 9:09:45 AM



#20
Methylene Chloride
Concen: 1.123 ug/l
RT: 4.55 min Scan# 865
Delta R.T. -0.00 min
Lab File: VN055598.D
Acq: 17 May 2019 9:29

Tgt Ion: 84 Resp: 3783
Ion Ratio Lower Upper
84 100
49 112.3 91.0 136.4
51 42.2 27.5 41.3#
86 72.0 49.4 74.0





#21

trans-1,2-Dichloroethene

Concen: 1.082 ug/l

RT: 5.04 min Scan# 1017

Delta R.T. -0.00 min

Lab File: VN055598.D

Acq: 17 May 2019 9:29

Instrument :

MSVOA_N

ClientSampleId :

VSTDIC001

Tot Ion: 96 Resp: 3378

Ion Ratio Lower Upper

96 100

61 114.0 108.6 162.8

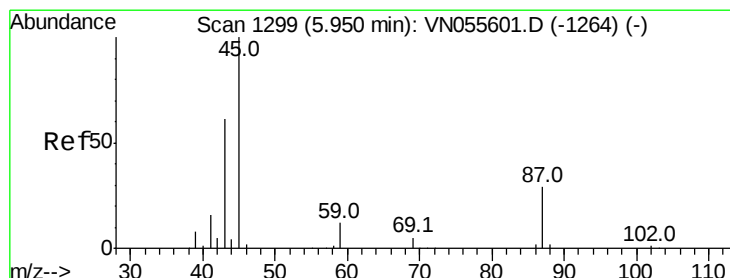
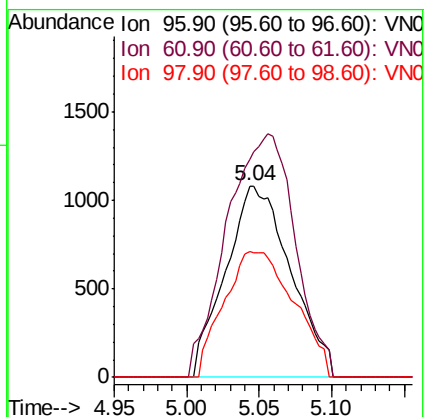
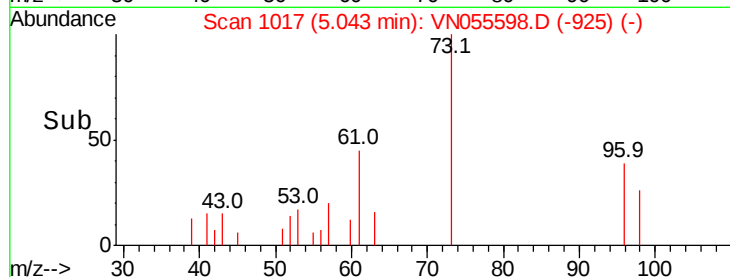
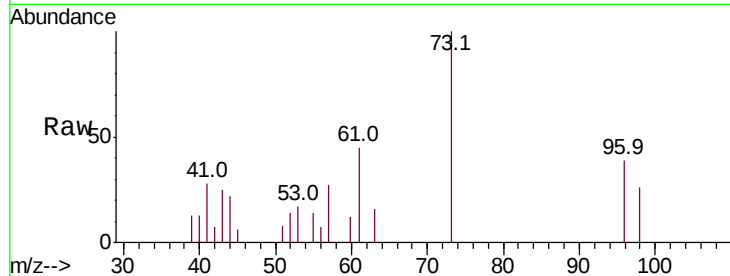
98 66.0 51.4 77.0

Manual Integrations

APPROVED

MMDadoda

5/20/2019 9:09:45 AM



#22

Diisopropyl ether

Concen: 1.174 ug/l

RT: 5.95 min Scan# 1299

Delta R.T. -0.00 min

Lab File: VN055598.D

Acq: 17 May 2019 9:29

Tgt Ion: 45 Resp: 9969

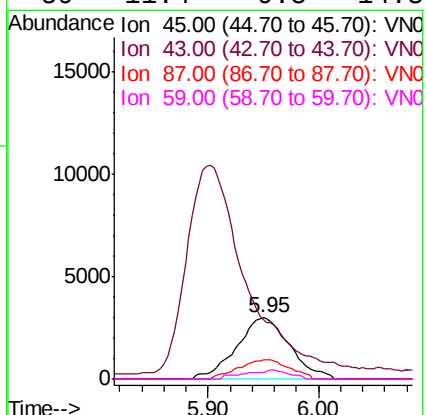
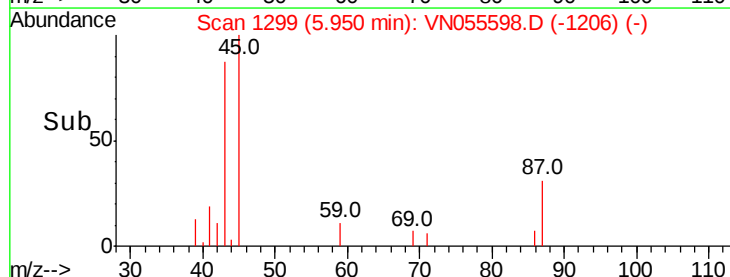
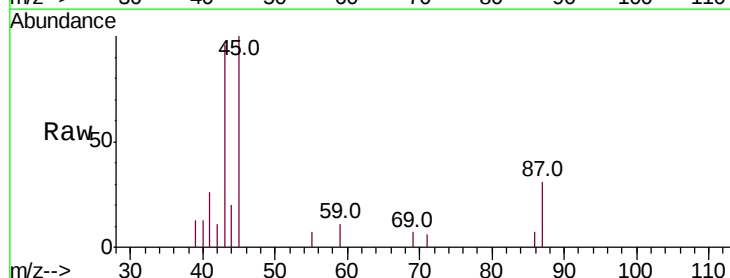
Ion Ratio Lower Upper

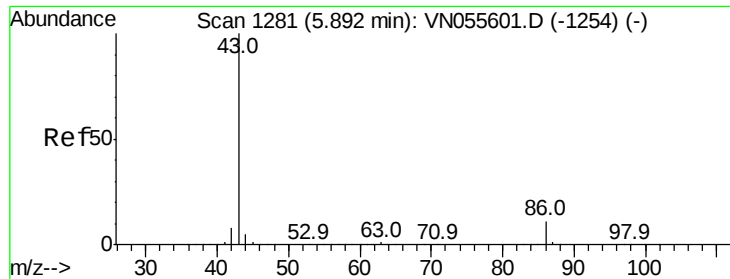
45 100

43 72.3 50.4 75.6

87 30.5 23.8 35.6

59 11.4 9.5 14.3





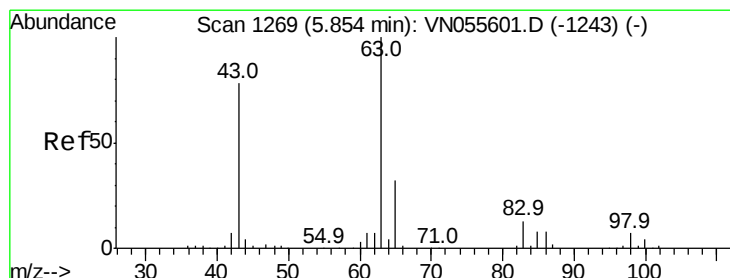
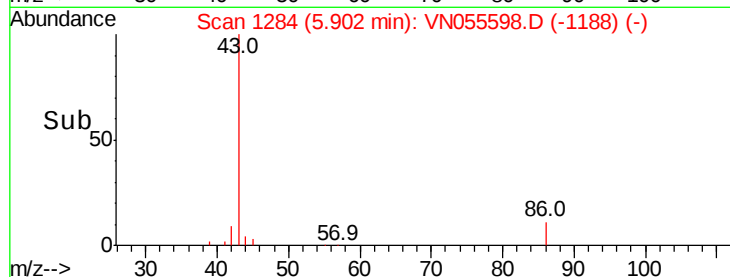
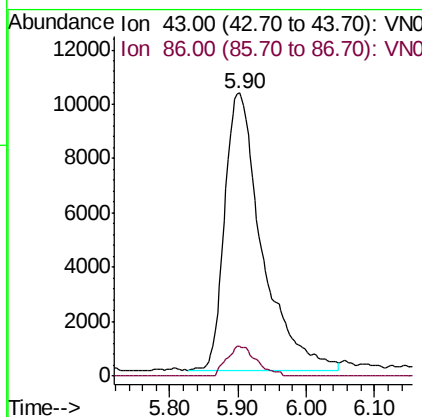
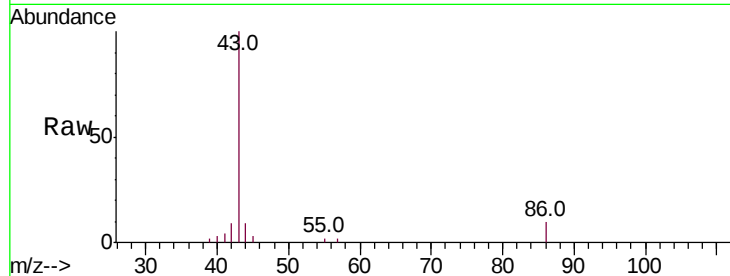
#23
 Vinyl Acetate
 Concen: 6.124 ug/l
 RT: 5.90 min Scan# 1284
 Delta R.T. 0.01 min
 Lab File: VN055598.D
 Acq: 17 May 2019 9:29

Instrument :
 MSVOA_N
 ClientSampleId :
 VSTDIC001

Tot Ion	43	86	Ratio	Lower	Upper
38742	100	10.7		8.7	13.1

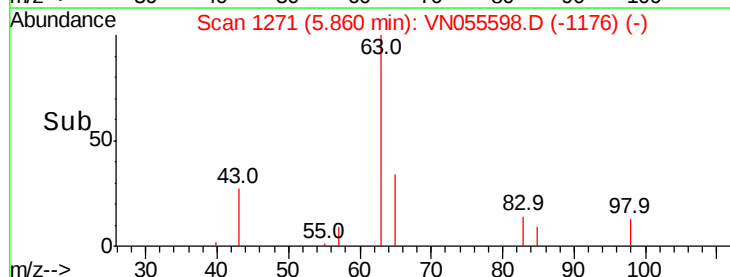
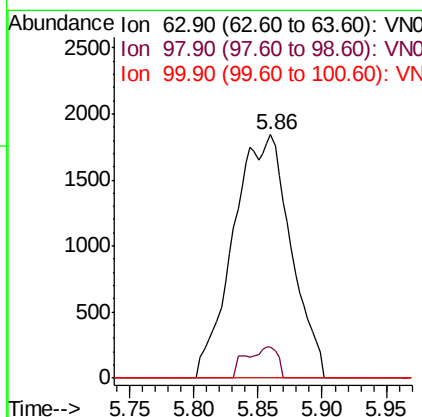
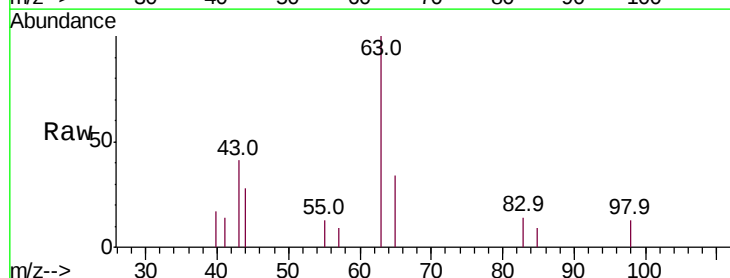
Manual Integrations
 APPROVED

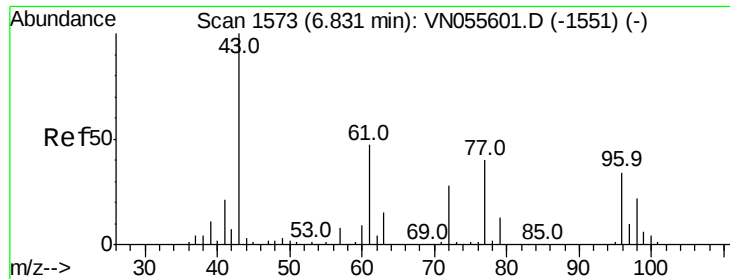
MMDadoda
 5/20/2019 9:09:45 AM



#24
 1,1-Dichloroethane
 Concen: 1.007 ug/l m
 RT: 5.86 min Scan# 1271
 Delta R.T. 0.01 min
 Lab File: VN055598.D
 Acq: 17 May 2019 9:29

Tgt Ion	63	98	100	Ratio	Lower	Upper
5717	100	12.9	0.0		3.4	10.2#
					2.2	6.6#





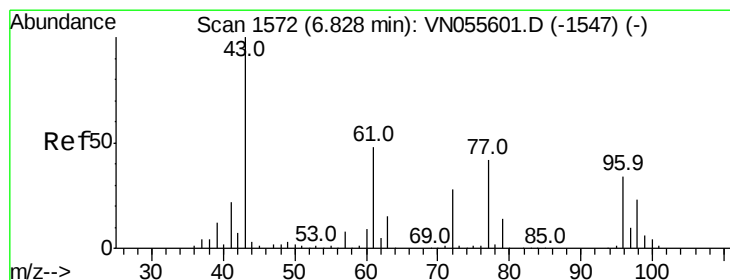
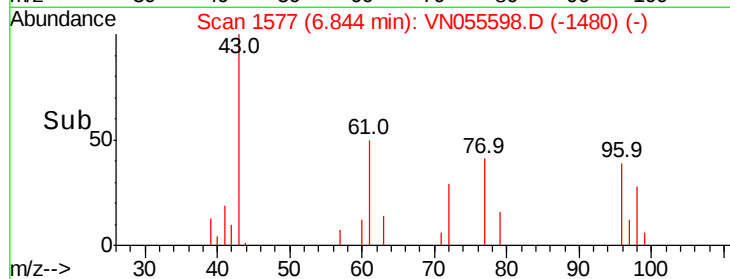
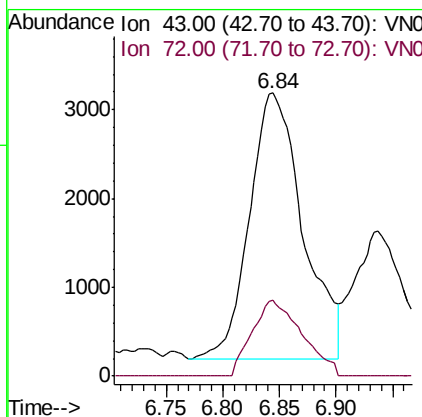
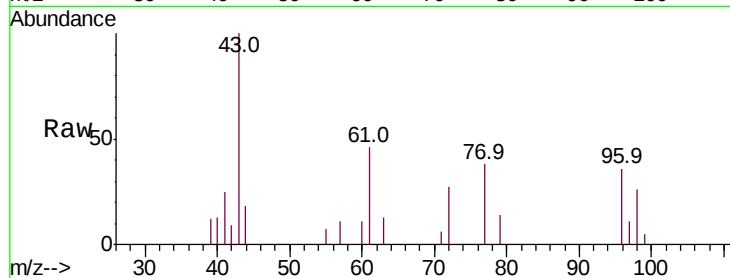
#25
2-Butanone
Concen: 7.482 ug/l
RT: 6.84 min Scan# 1577
Delta R.T. 0.01 min
Lab File: VN055598.D
Acq: 17 May 2019 9:29

Instrument :
MSVOA_N
ClientSampled :
VSTDIC001

Tot Ion: 43 Resp: 9812
Ion Ratio Lower Upper
43 100
72 28.5 22.3 33.5

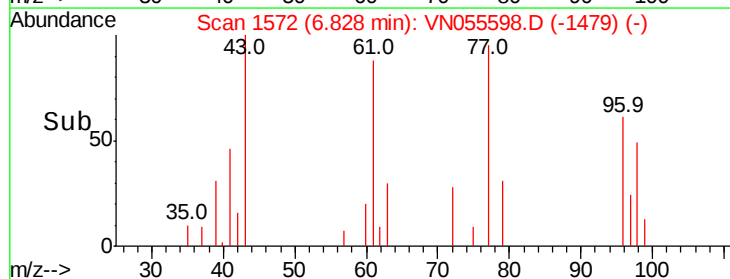
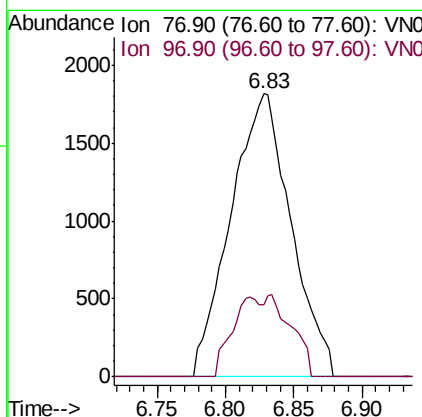
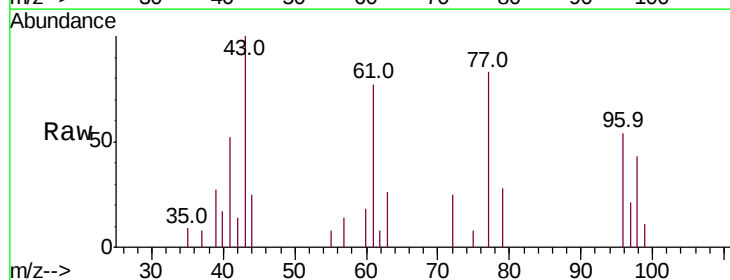
Manual Integrations
APPROVED

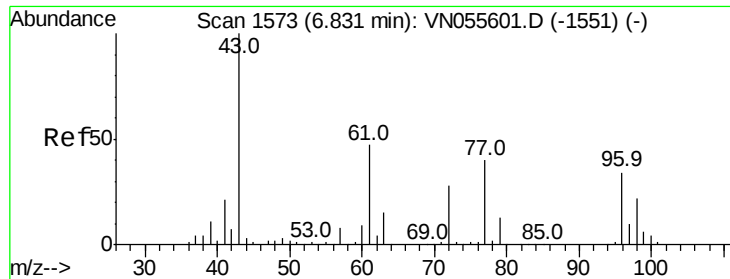
MMDadoda
5/20/2019 9:09:45 AM



#26
2,2-Dichloropropane
Concen: 1.269 ug/l
RT: 6.83 min Scan# 1572
Delta R.T. -0.00 min
Lab File: VN055598.D
Acq: 17 May 2019 9:29

Tgt Ion: 77 Resp: 5579
Ion Ratio Lower Upper
77 100
97 12.9 12.0 36.0





#27

cis-1,2-Dichloroethene

Concen: 1.133 ug/l

RT: 6.83 min Scan# 1574

Delta R.T. 0.00 min

Lab File: VN055598.D

Acq: 17 May 2019 9:29

Instrument :

MSVOA_N

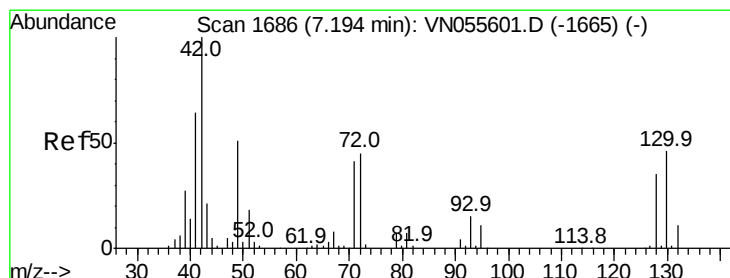
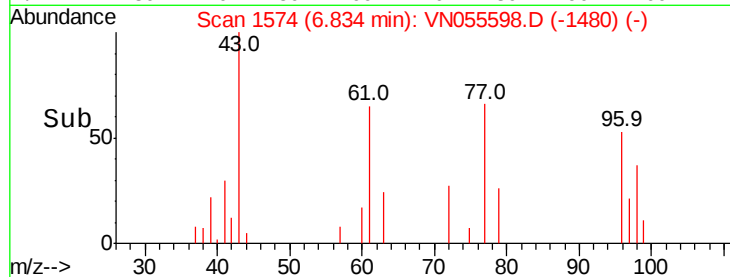
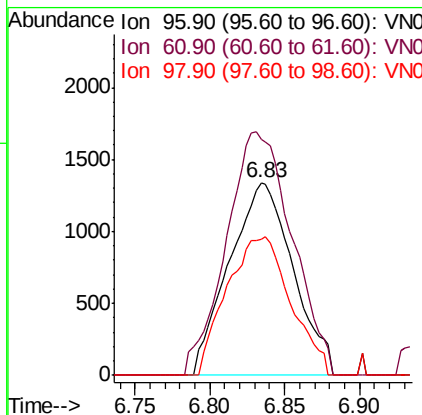
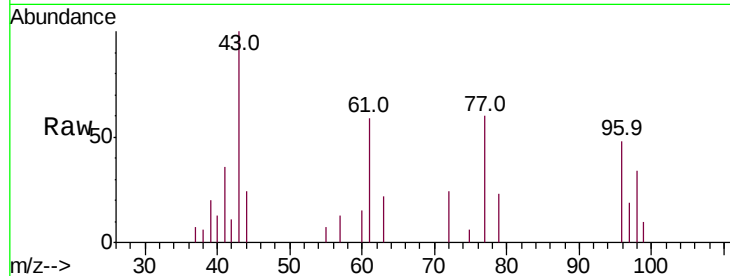
ClientSampled :

VSTDIC001

Tot Ion:	96	Resp:	3978
Ion	Ratio	Lower	Upper
96	100		
61	130.3	0.0	279.0
98	71.8	0.0	131.6

Manual Integrations
APPROVED

MMDadoda
5/20/2019 9:09:45 AM



#28

Bromochloromethane

Concen: 0.929 ug/l

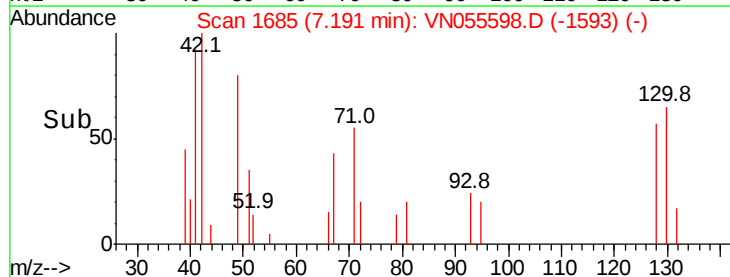
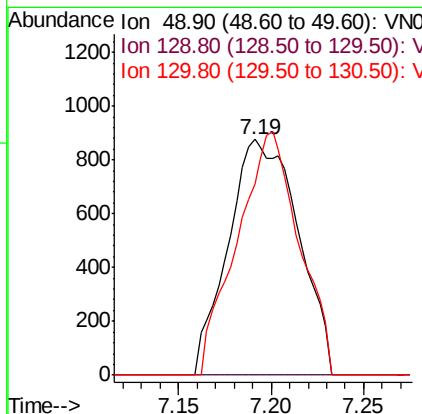
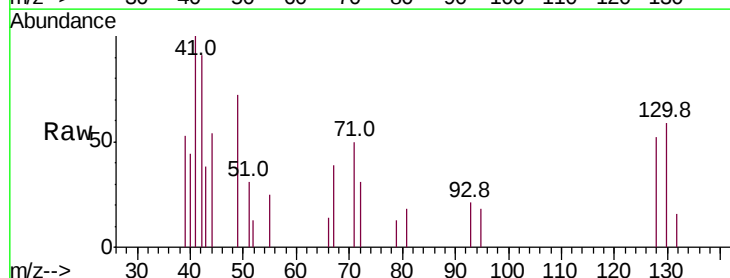
RT: 7.19 min Scan# 1685

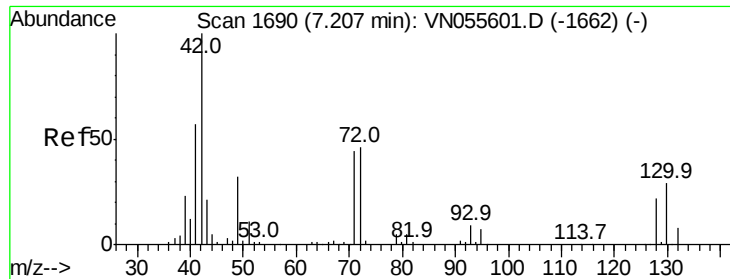
Delta R.T. -0.00 min

Lab File: VN055598.D

Acq: 17 May 2019 9:29

Tgt Ion:	49	Resp:	2304
Ion	Ratio	Lower	Upper
49	100		
129	0.0	0.0	4.4
130	91.0	71.0	106.6





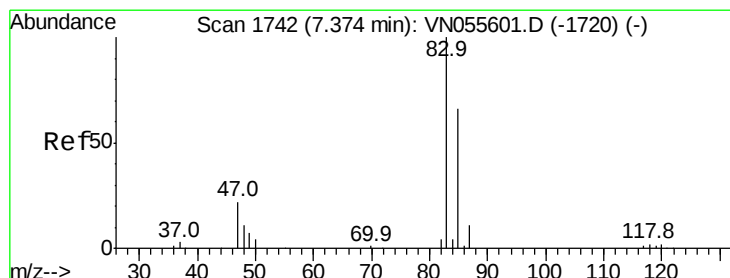
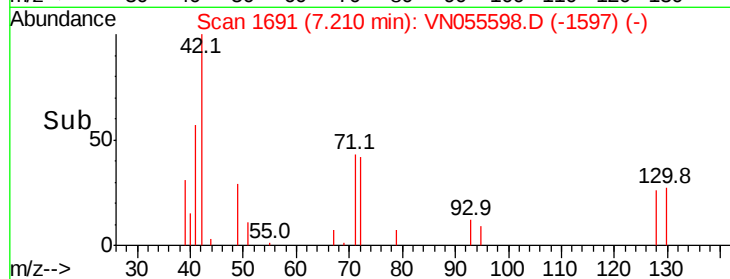
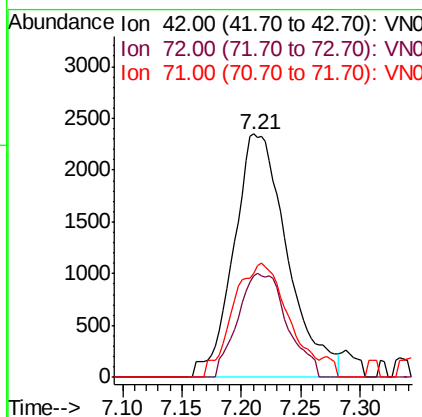
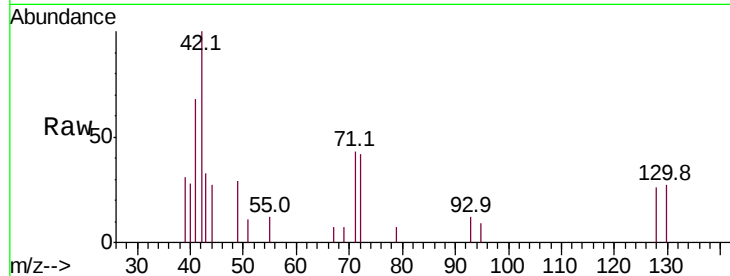
#29
Tetrahydrofuran
Concen: 8.675 ug/l
RT: 7.21 min Scan# 1691
Delta R.T. 0.00 min
Lab File: VN055598.D
Acq: 17 May 2019 9:29

Instrument :
MSVOA_N
ClientSampleId :
VSTDIC001

Tot Ion:	42	Resp:	7330
Ion Ratio	Lower	Upper	
42	100		
72	39.3	36.5	54.7
71	47.8	34.9	52.3

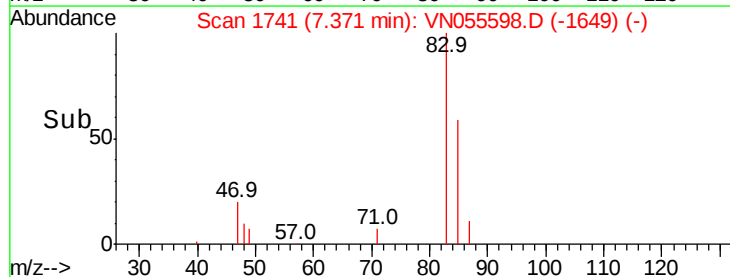
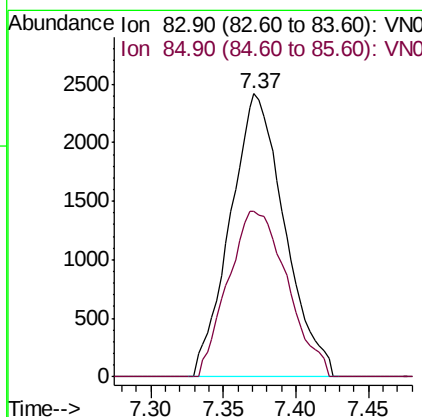
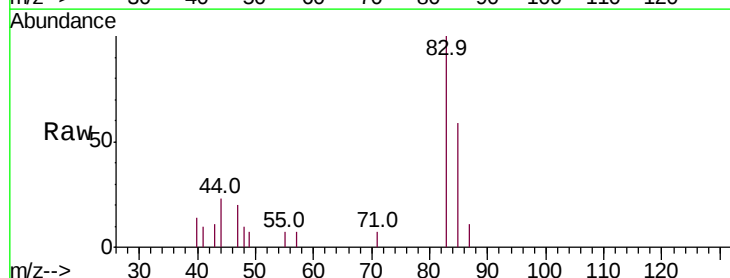
Manual Integrations
APPROVED

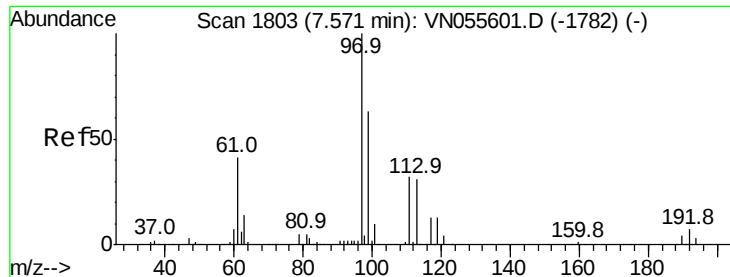
MMDadoda
5/20/2019 9:09:45 AM



#30
Chloroform
Concen: 1.106 ug/l
RT: 7.37 min Scan# 1741
Delta R.T. -0.00 min
Lab File: VN055598.D
Acq: 17 May 2019 9:29

Tgt Ion:	83	Resp:	6308
Ion Ratio	Lower	Upper	
83	100		
85	58.6	52.6	78.8





#32

1,1,1-Trichloroethane

Concen: 1.185 ug/l

RT: 7.57 min Scan# 1804

Delta R.T. 0.00 min

Lab File: VN055598.D

Acq: 17 May 2019 9:29

Instrument :

MSVOA_N

ClientSampleId :

VSTDIC001

Tot Ion: 97 Resp: 5822

Ion Ratio Lower Upper

97 100

99 0.0 51.4 77.2#

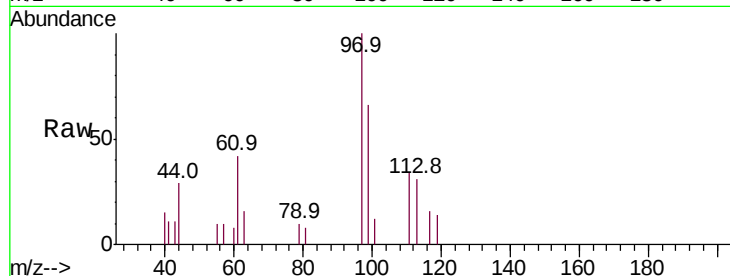
61 37.4 32.9 49.3

Manual Integrations

APPROVED

MMDadoda

5/20/2019 9:09:45 AM

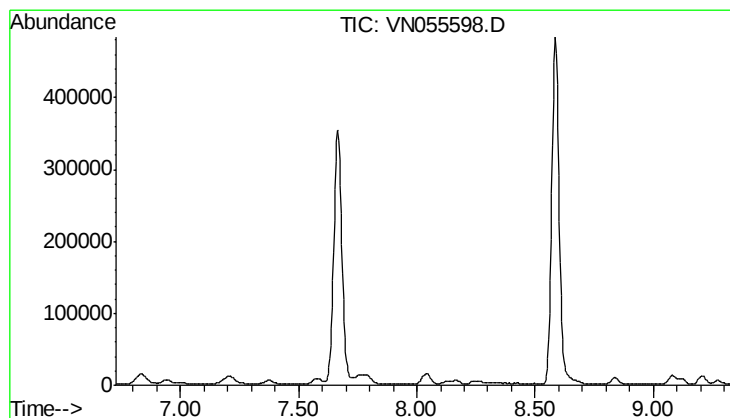
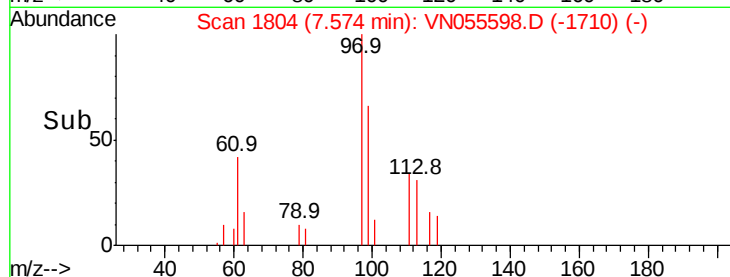
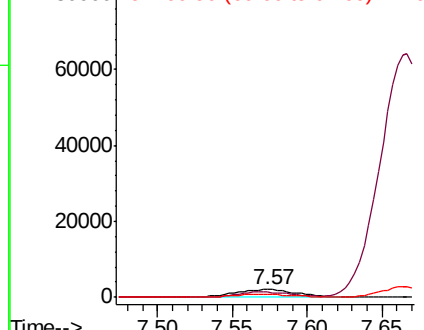


Abundance

Ion 96.90 (96.60 to 97.60): VN055598.D

Ion 98.90 (98.60 to 99.60): VN055598.D

Ion 60.90 (60.60 to 61.60): VN055598.D



#33

1,2-Dichloroethane-d4

Concen: 0.000 ug/l

Expected RT: 8.03 min

Lab File: VN055598.D

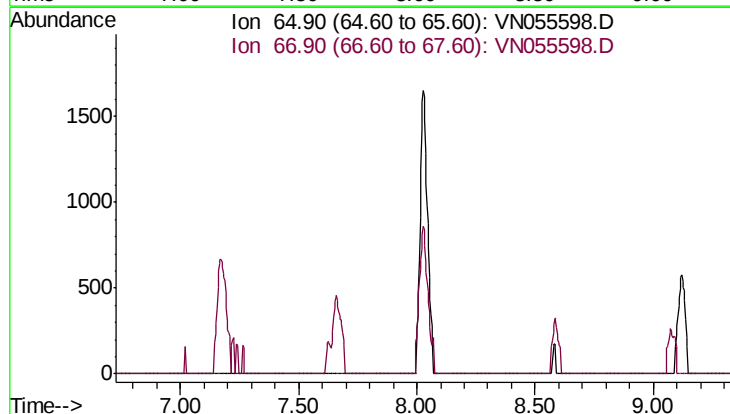
Acq: 17 May 2019 9:29

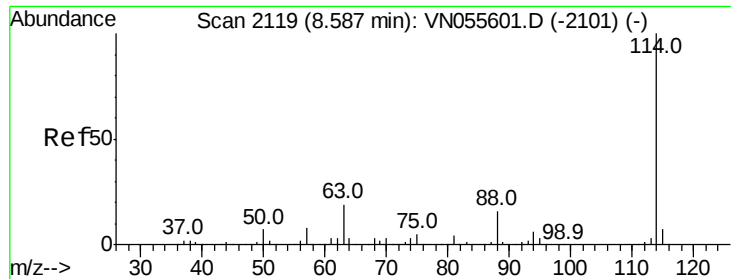
Tgt Ion: 65

Sig Exp Ratio

65 100

67 54.3





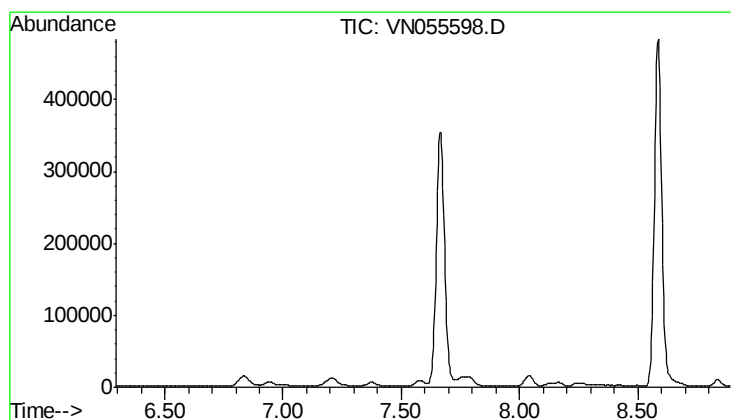
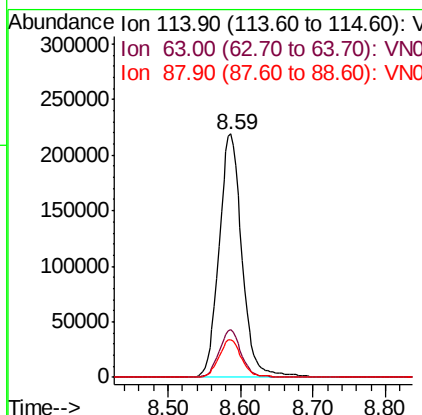
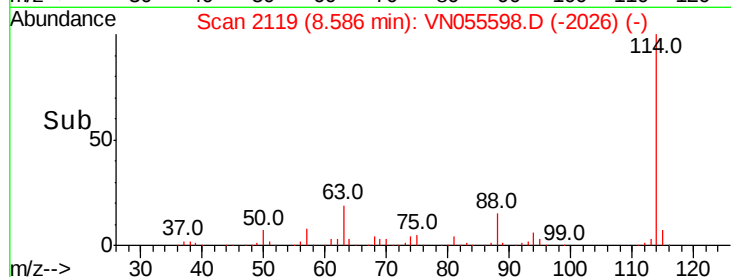
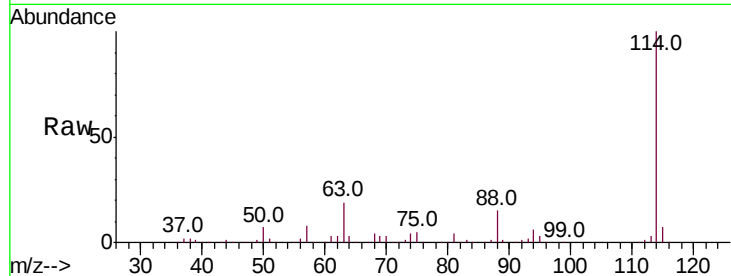
#34
 1,4-Difluorobenzene
 Concen: 50.000 ug/l
 RT: 8.59 min Scan# 2119
 Delta R.T. -0.00 min
 Lab File: VN055598.D
 Acq: 17 May 2019 9:29

Instrument :
 MSVOA_N
 ClientSampleId :
 VSTDIC001

Tot Ion	Ratio	Resp Lower	Upper
114	100		
63	19.4	0.0	38.2
88	15.5	0.0	31.0

Manual Integrations
 APPROVED

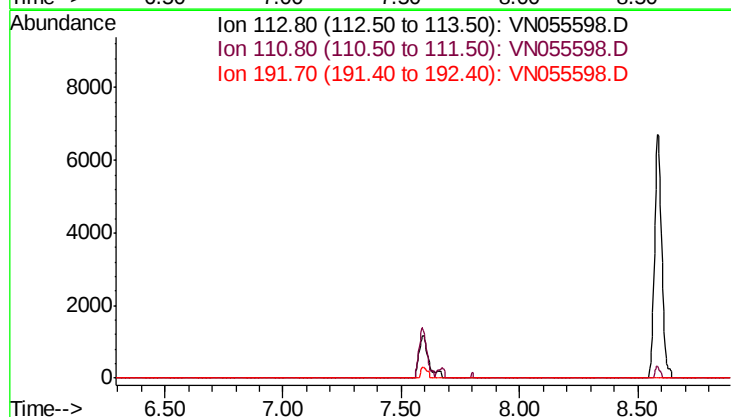
MMDadoda
 5/20/2019 9:09:45 AM

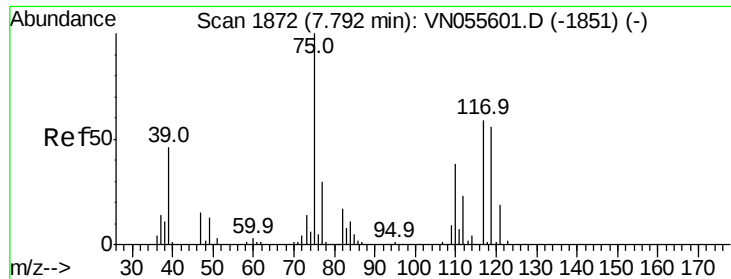


#35
 Dibromofluoromethane
 Concen: 0.000 ug/l
 Expected RT: 7.59 min

Lab File: VN055598.D
 Acq: 17 May 2019 9:29

Tgt Ion	Exp Ratio
113	100
111	103.1
192	23.4





#36

1,1-Dichloropropene

Concen: 1.127 ug/l

RT: 7.79 min Scan# 1872

Delta R.T. -0.00 min

Lab File: VN055598.D

Acq: 17 May 2019 9:29

Instrument :

MSVOA_N

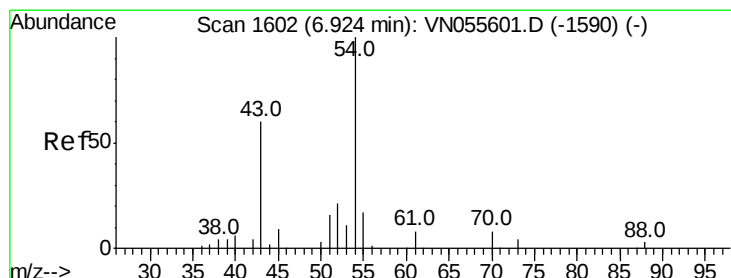
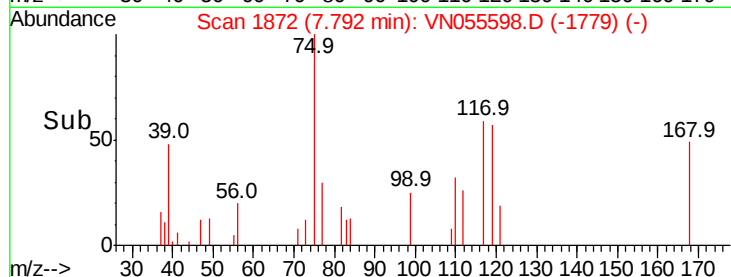
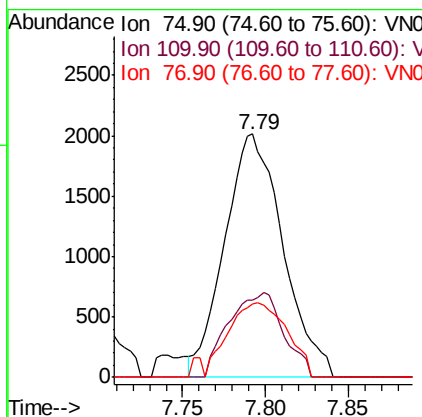
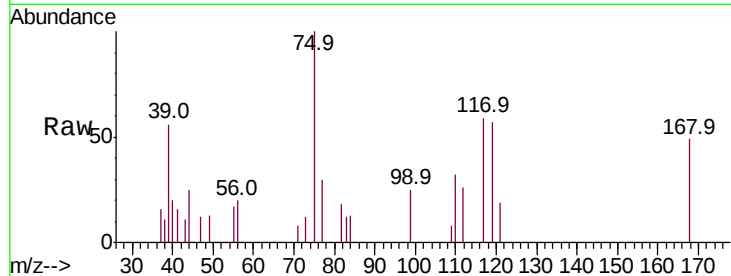
ClientSampled :

VSTDIC001

Tot Ion:	75	Resp:	4930
Ion	Ratio	Lower	Upper
75	100		
110	32.6	18.6	55.6
77	31.0	24.9	37.3

Manual Integrations
APPROVED

MMDadoda
5/20/2019 9:09:45 AM



#37

Ethyl Acetate

Concen: 1.308 ug/l

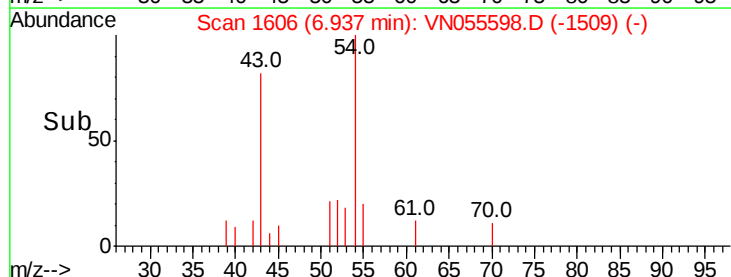
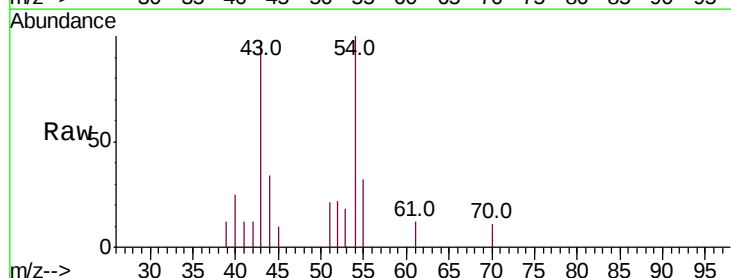
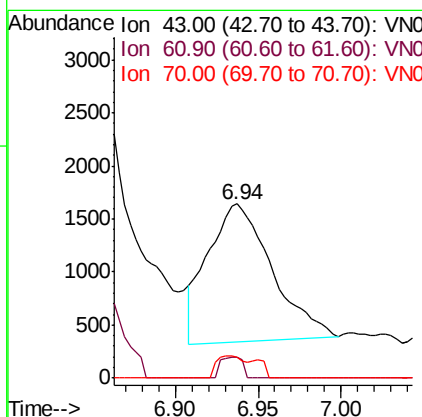
RT: 6.94 min Scan# 1606

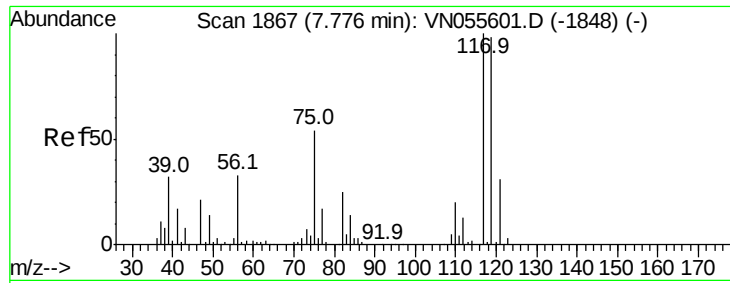
Delta R.T. 0.01 min

Lab File: VN055598.D

Acq: 17 May 2019 9:29

Tgt Ion:	43	Resp:	3497
Ion	Ratio	Lower	Upper
43	100		
61	5.1	11.4	17.0#
70	7.0	9.2	13.8#





#38

Carbon Tetrachloride

Concen: 1.179 ug/l m

RT: 7.78 min Scan# 1869

Delta R.T. 0.01 min

Lab File: VN055598.D

Acq: 17 May 2019 9:29

Instrument :

MSVOA_N

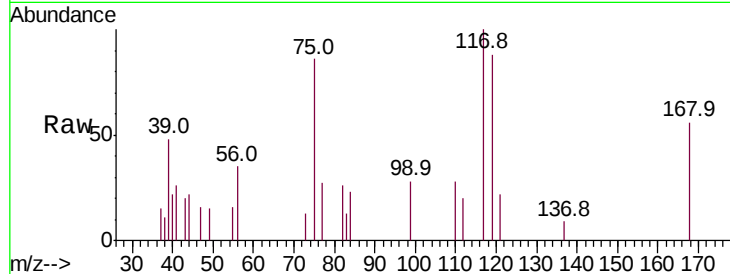
ClientSampled :

VSTDIC001

Tot Ion	Ratio	Lower	Upper
117	100		
119	87.6	77.8	116.8
121	22.2	24.6	37.0#

Manual Integrations
APPROVED

MMDadoda
5/20/2019 9:09:45 AM

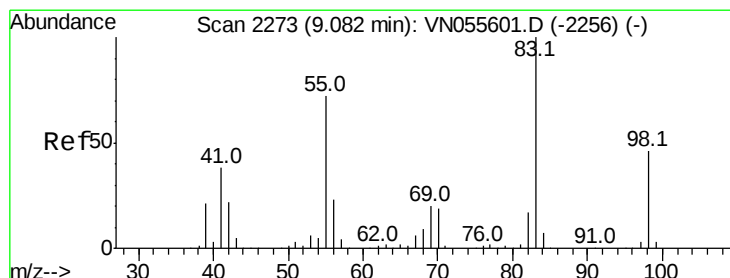
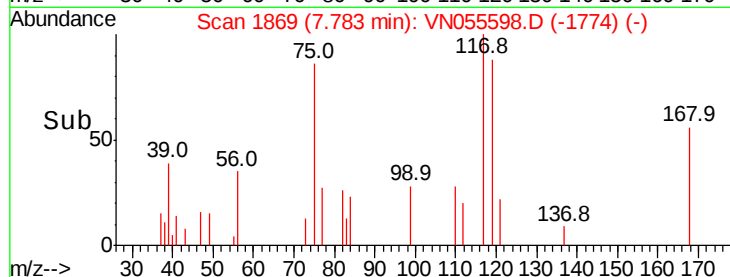
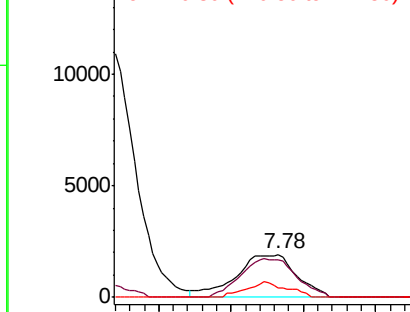


Abundance

Ion 116.80 (116.50 to 117.50): V

Ion 118.80 (118.50 to 119.50): V

Ion 120.80 (120.50 to 121.50): V



#39

Methylcyclohexane

Concen: 1.154 ug/l

RT: 9.08 min Scan# 2272

Delta R.T. -0.00 min

Lab File: VN055598.D

Acq: 17 May 2019 9:29

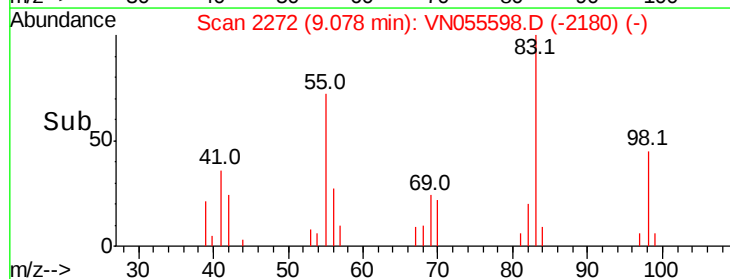
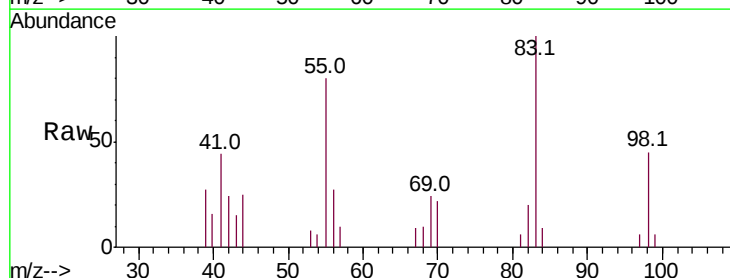
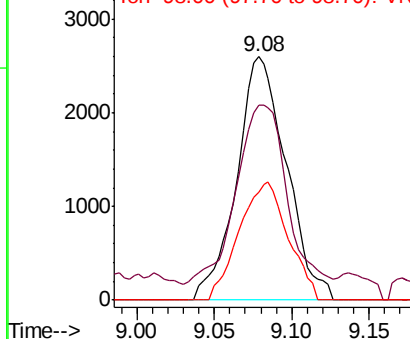
Tgt Ion	Ratio	Lower	Upper
83	100		
55	72.3	57.8	86.6
98	44.5	36.7	55.1

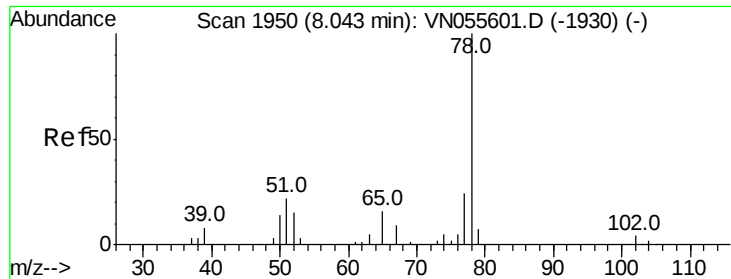
Abundance

Ion 83.00 (82.70 to 83.70): V

Ion 55.00 (54.70 to 55.70): V

Ion 98.00 (97.70 to 98.70): V





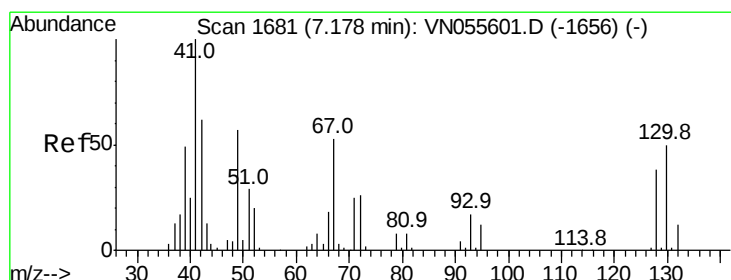
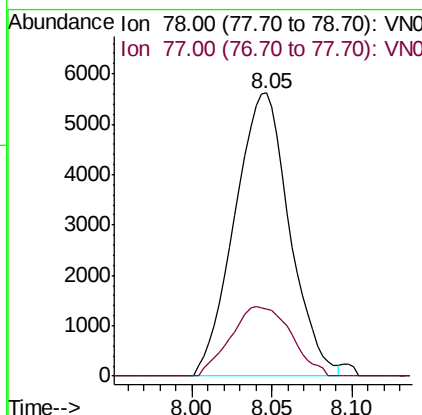
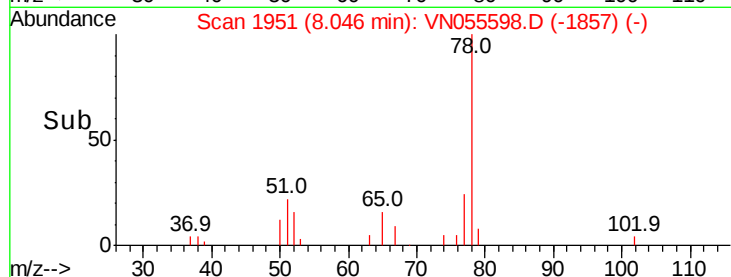
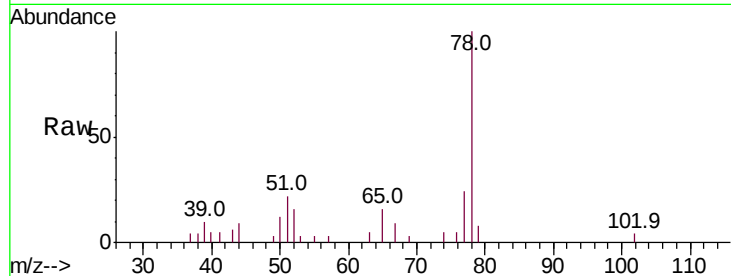
#40
Benzene
Concen: 1.030 ug/l
RT: 8.05 min Scan# 1951
Delta R.T. 0.00 min
Lab File: VN055598.D
Acq: 17 May 2019 9:29

Instrument :
MSVOA_N
ClientSampleId :
VSTDIC001

Tot Ion: 78 Resp: 13235
Ion Ratio Lower Upper
78 100
77 23.9 18.9 28.3

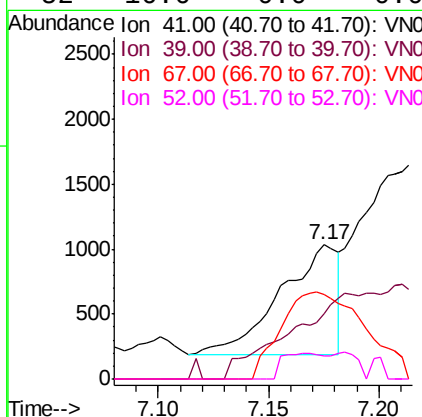
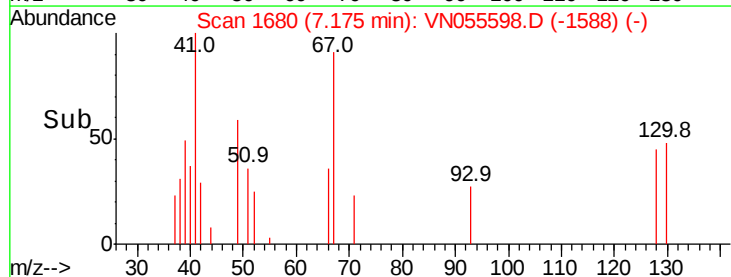
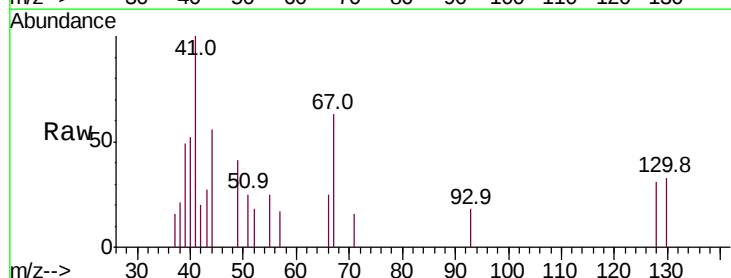
Manual Integrations
APPROVED

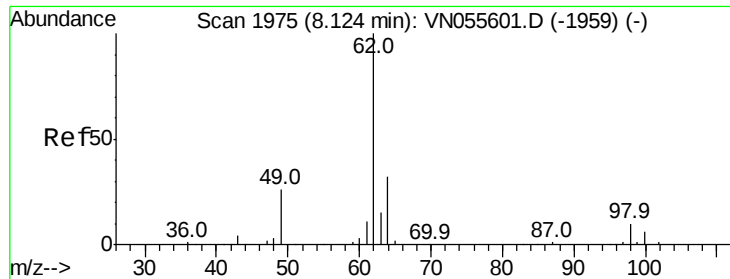
MMDadoda
5/20/2019 9:09:45 AM



#41
Methacrylonitrile
Concen: 1.117 ug/l
RT: 7.17 min Scan# 1680
Delta R.T. -0.00 min
Lab File: VN055598.D
Acq: 17 May 2019 9:29

Tgt Ion: 41 Resp: 1527
Ion Ratio Lower Upper
41 100
39 0.0 0.0 0.0
67 116.1 0.0 0.0#
52 16.6 0.0 0.0#





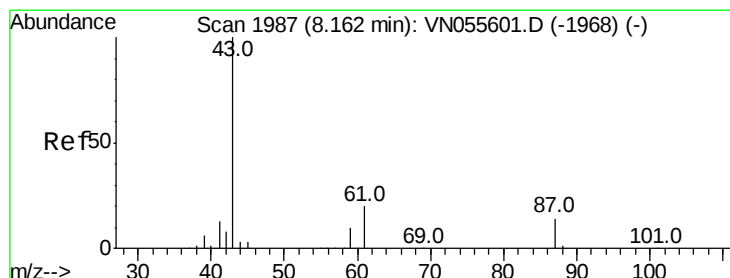
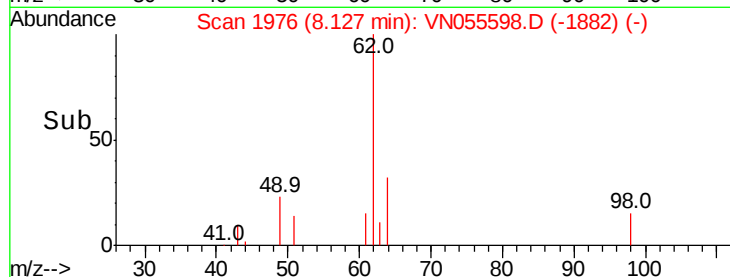
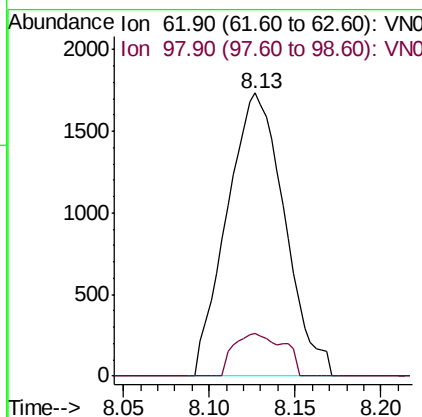
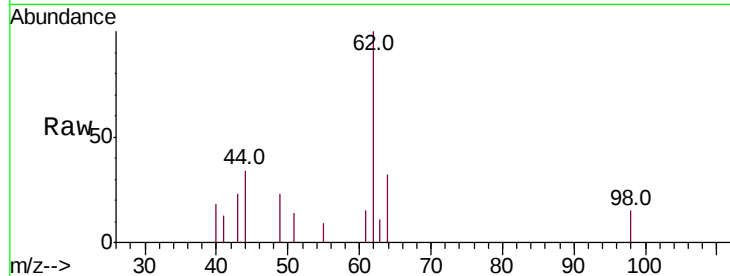
#42
 1,2-Dichloroethane
 Concen: 1.033 ug/l
 RT: 8.13 min Scan# 1976
 Delta R.T. 0.00 min
 Lab File: VN055598.D
 Acq: 17 May 2019 9:29

Instrument :
 MSVOA_N
 ClientSampleId :
 VSTDIC001

Tot Ion	Ratio	Lower	Upper
62	100		
98	13.1	0.0	20.2

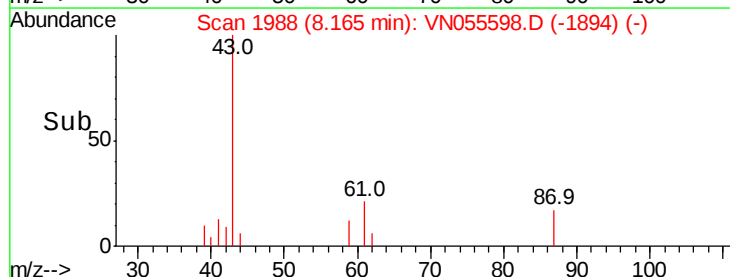
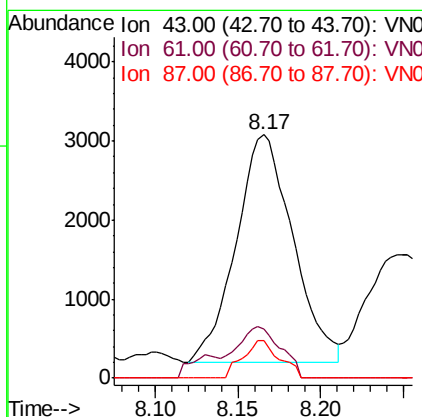
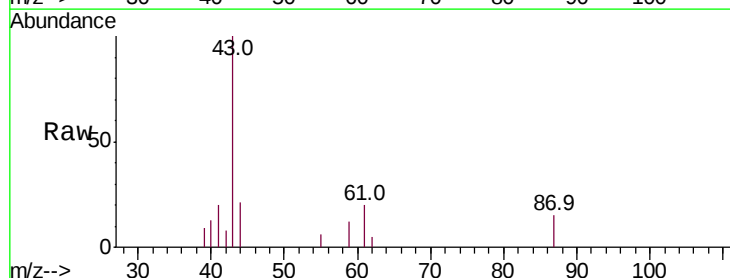
Manual Integrations
 APPROVED

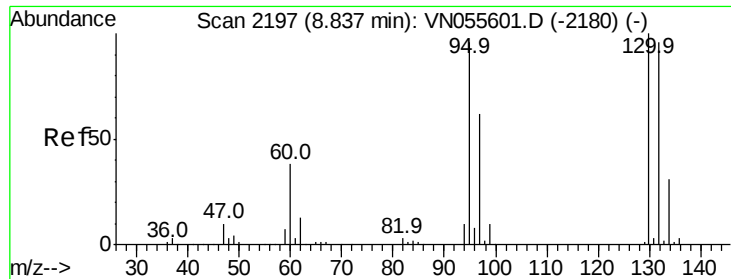
MMDadoda
 5/20/2019 9:09:45 AM



#43
 Isopropyl Acetate
 Concen: 1.360 ug/l
 RT: 8.17 min Scan# 1988
 Delta R.T. 0.00 min
 Lab File: VN055598.D
 Acq: 17 May 2019 9:29

Tgt Ion	Ratio	Lower	Upper
43	100		
61	17.2	22.1	33.1#
87	10.5	11.8	17.6#





#44

Trichloroethene

Concen: 1.032 ug/l

RT: 8.83 min Scan# 2196

Delta R.T. -0.00 min

Lab File: VN055598.D

Acq: 17 May 2019 9:29

Instrument :

MSVOA_N

ClientSampleId :

VSTDIC001

Tot Ion:130 Resp: 3719

Ion Ratio Lower Upper

130 100

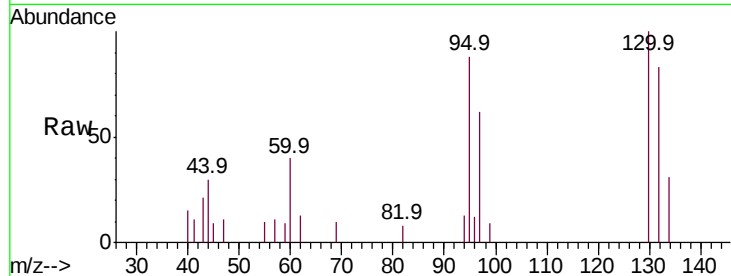
95 87.8 0.0 191.0

Manual Integrations

APPROVED

MMDadoda

5/20/2019 9:09:45 AM



Abundance Ion 129.80 (129.50 to 130.50): V

Ion 94.90 (94.60 to 95.60): VN

8.83

2000

1500

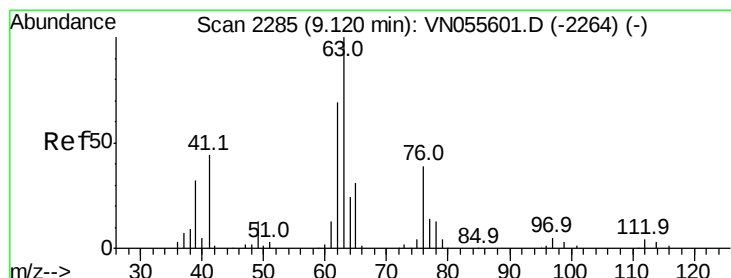
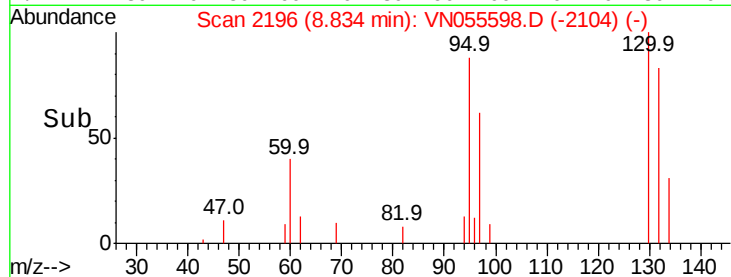
1000

500

0

8.80 8.85 8.90

Time-->



#45

1,2-Dichloropropane

Concen: 1.043 ug/l

RT: 9.12 min Scan# 2286

Delta R.T. 0.00 min

Lab File: VN055598.D

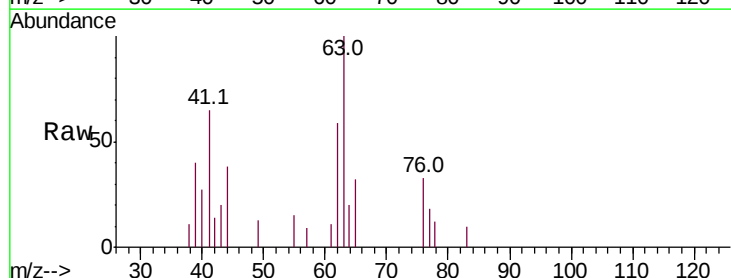
Acq: 17 May 2019 9:29

Tgt Ion: 63 Resp: 3443

Ion Ratio Lower Upper

63 100

65 32.2 25.2 37.8



Abundance Ion 62.90 (62.60 to 63.60): VN

Ion 64.90 (64.60 to 65.60): VN

9.12

2000

1500

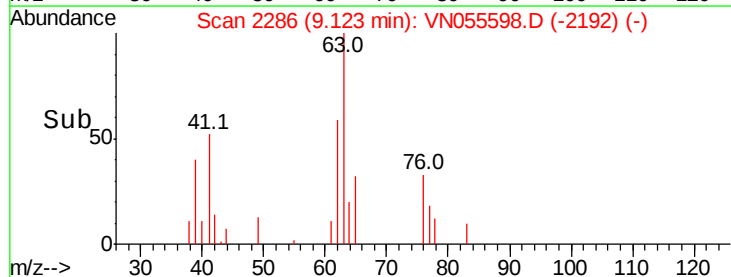
1000

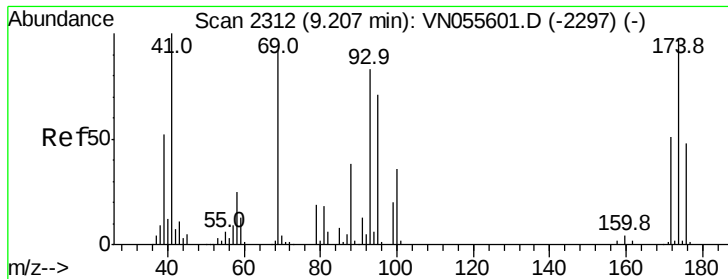
500

0

9.05 9.10 9.15

Time-->





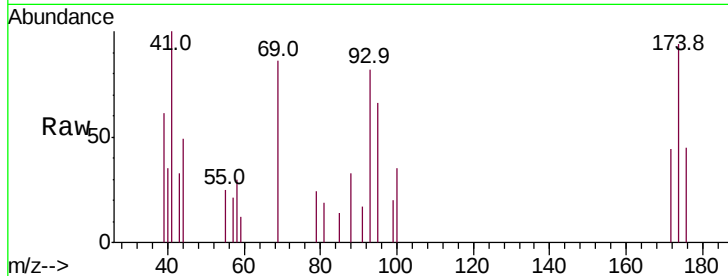
#46
 Dibromomethane
 Concen: 1.085 ug/l
 RT: 9.21 min Scan# 2313
 Delta R.T. 0.00 min
 Lab File: VN055598.D
 Acq: 17 May 2019 9:29

Instrument :
 MSVOA_N
 ClientSampleId :
 VSTDIC001

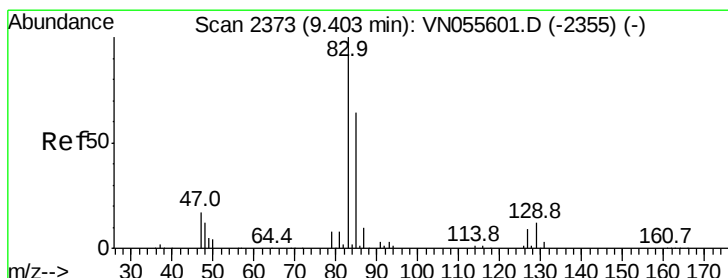
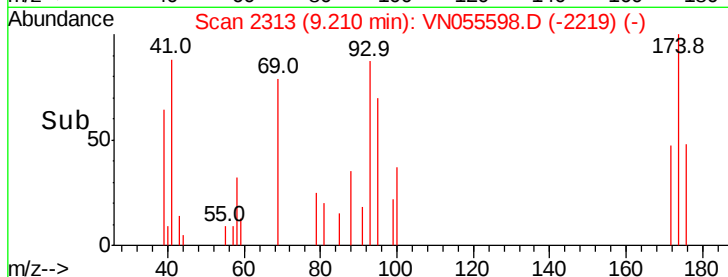
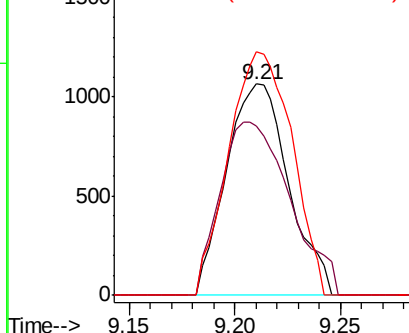
Tot Ion	Ratio	Lower	Upper
93	100		
95	91.9	67.9	101.9
174	117.1	93.8	140.6

Manual Integrations
 APPROVED

MMDadoda
 5/20/2019 9:09:45 AM

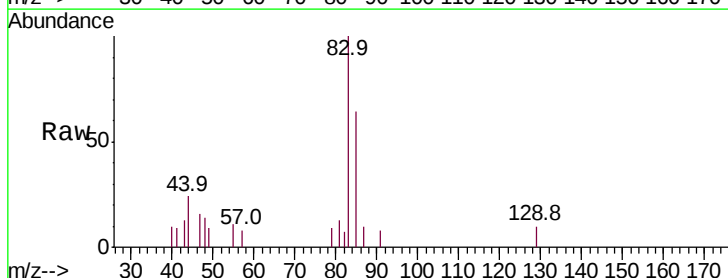


Abundance Ion 92.80 (92.50 to 93.50): VN055598.D (-2219) (-)
 Ion 94.80 (94.50 to 95.50): VN055598.D (-2219) (-)
 Ion 173.70 (173.40 to 174.40): VN055598.D (-2219) (-)

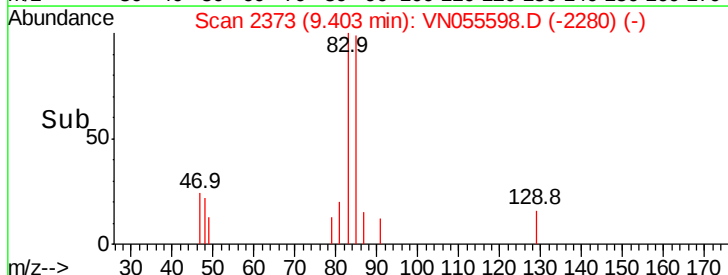
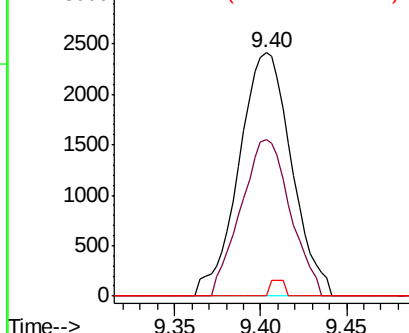


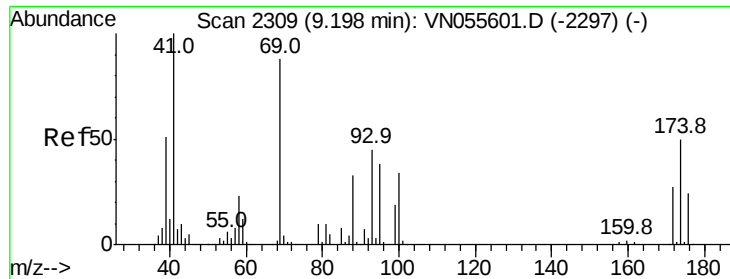
#47
 Bromodichloromethane
 Concen: 1.211 ug/l
 RT: 9.40 min Scan# 2373
 Delta R.T. -0.00 min
 Lab File: VN055598.D
 Acq: 17 May 2019 9:29

Tgt Ion	Ratio	Lower	Upper
83	100		
85	64.4	51.4	77.0
127	0.0	7.1	10.7#



Abundance Ion 82.90 (82.60 to 83.60): VN055598.D (-2280) (-)
 Ion 84.90 (84.60 to 85.60): VN055598.D (-2280) (-)
 Ion 126.80 (126.50 to 127.50): VN055598.D (-2280) (-)





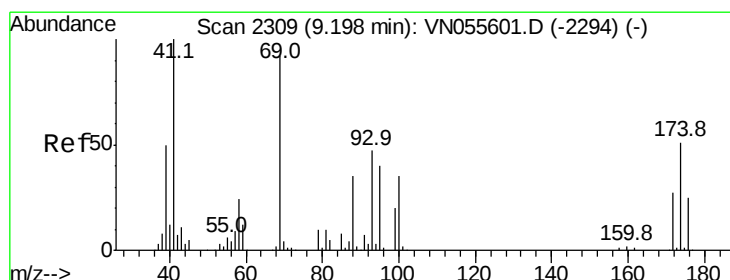
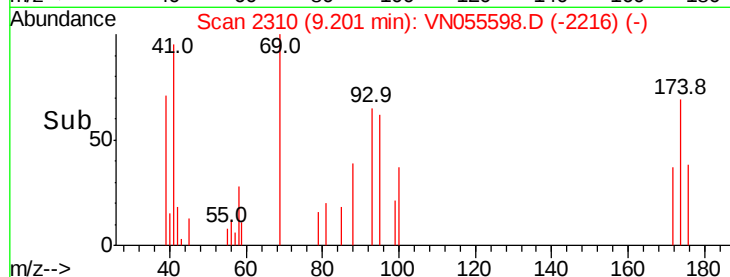
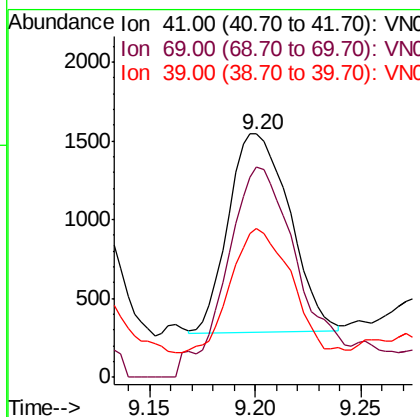
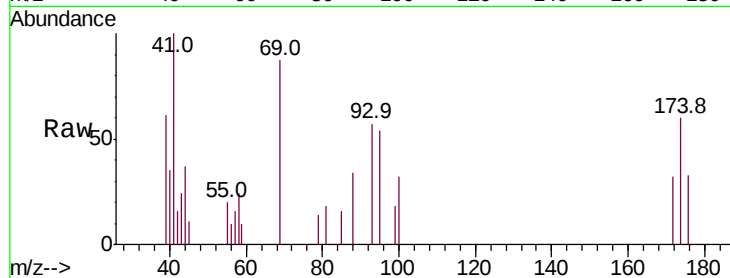
#48
Methvl methacrilate
Concen: 1.165 ug/l
RT: 9.20 min Scan# 2310
Delta R.T. 0.00 min
Lab File: VN055598.D
Acq: 17 May 2019 9:29

Instrument :
MSVOA_N
ClientSampled :
VSTDIC001

Tot Ion	Ratio	Resp	Lower	Upper
41	100	2537		
69	125.5		74.2	111.2#
39	60.9		43.8	65.8

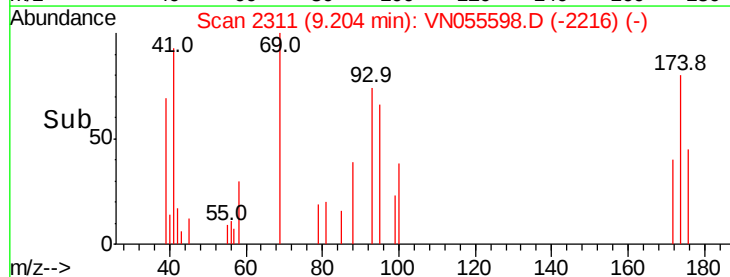
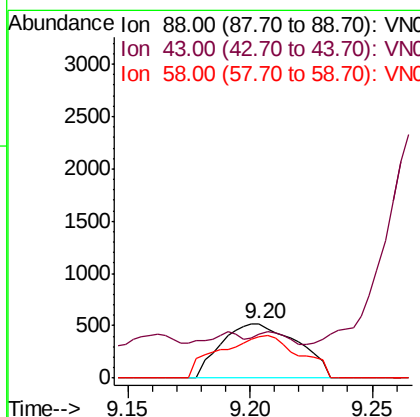
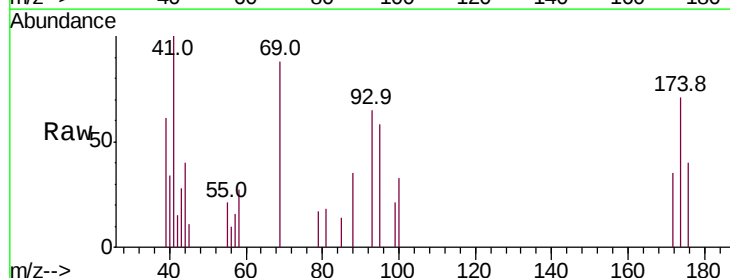
Manual Integrations
APPROVED

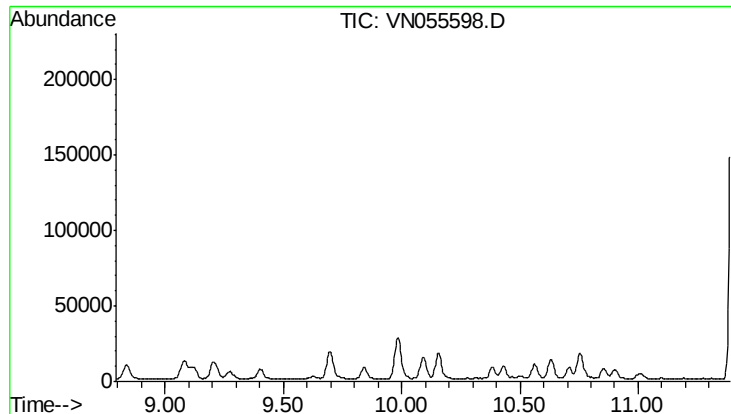
MMDadoda
5/20/2019 9:09:45 AM



#49
1,4-Dioxane
Concen: 32.060 ug/l
RT: 9.20 min Scan# 2311
Delta R.T. 0.01 min
Lab File: VN055598.D
Acq: 17 May 2019 9:29

Tgt Ion	Ratio	Resp	Lower	Upper
88	100	1132		
43	0.0		22.4	33.6#
58	81.7		53.4	80.2#





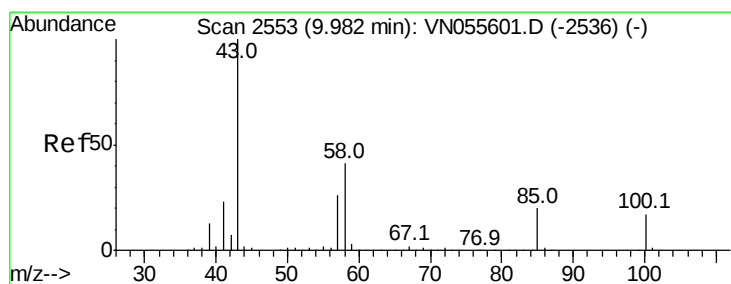
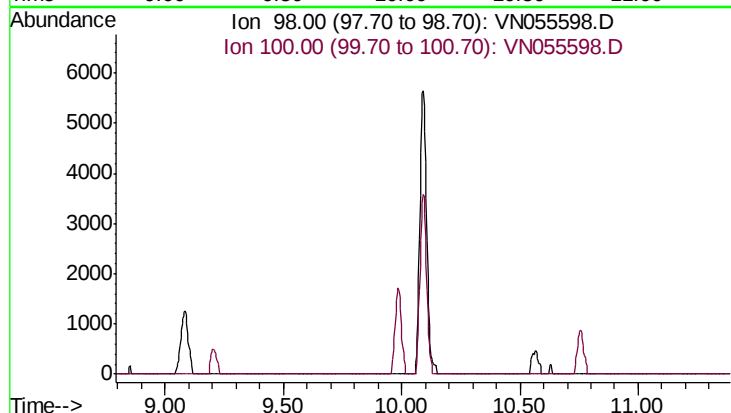
#50
Toluene-d8
Concen: 0.000 ug/l
Expected RT: 10.09 min

Instrument :
MSVOA_N
ClientSampleId :
VSTDIC001

Tot Ion: 98
Sig Exp Ratio
98 100
100 64.9

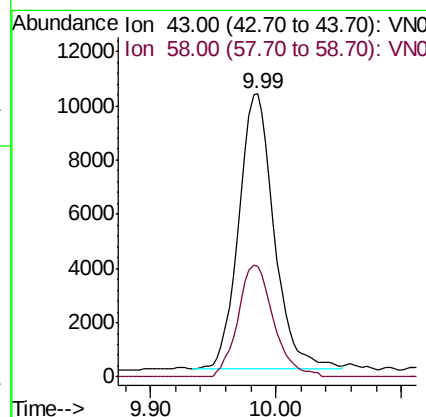
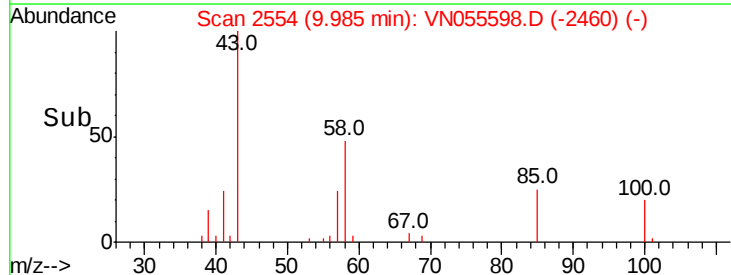
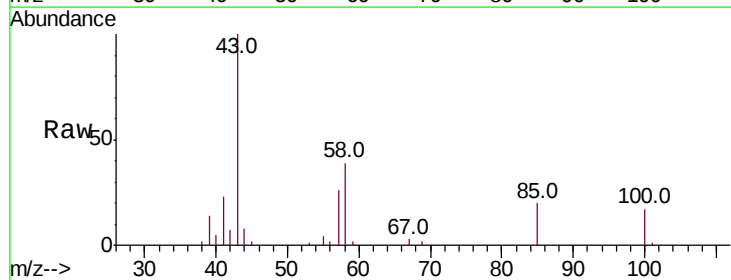
Manual Integrations
APPROVED

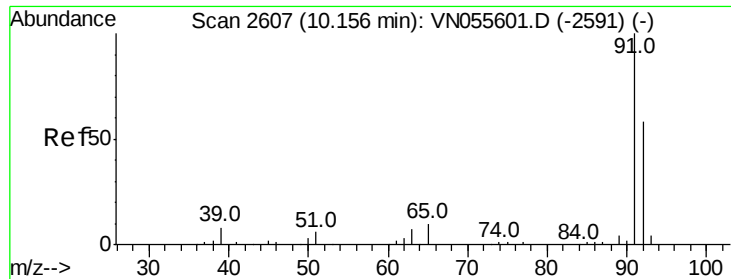
MMDadoda
5/20/2019 9:09:45 AM



#51
4-Methyl-2-Pentanone
Concen: 8.224 ug/l
RT: 9.99 min Scan# 2554
Delta R.T. 0.00 min
Lab File: VN055598.D
Acq: 17 May 2019 9:29

Tgt Ion: 43 Resp: 19837
Ion Ratio Lower Upper
43 100
58 40.9 32.7 49.1





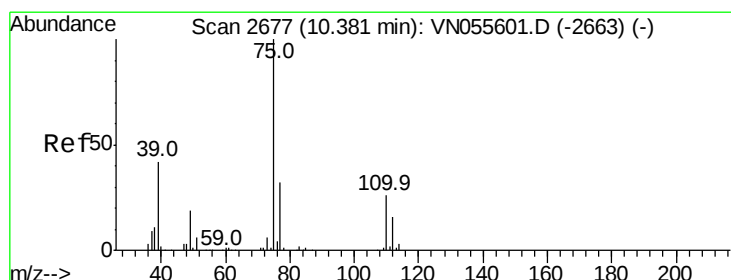
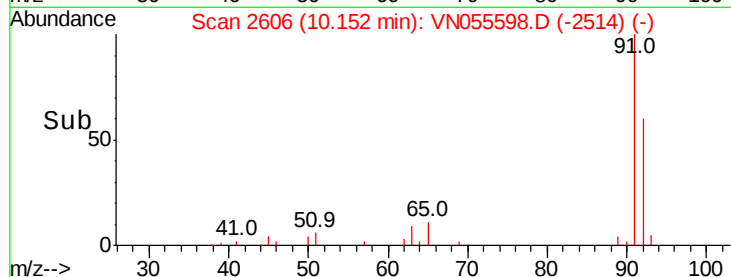
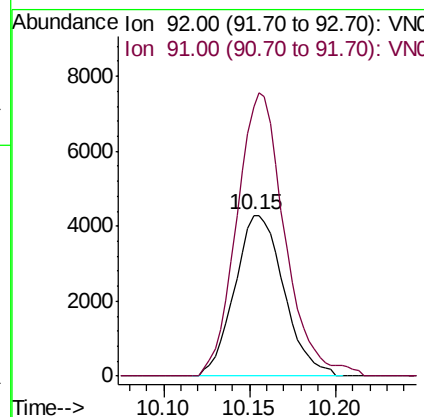
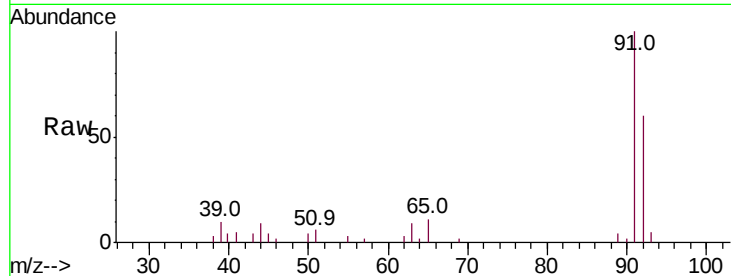
#52
Toluene
Concen: 1.123 ug/l
RT: 10.15 min Scan# 2606
Delta R.T. -0.00 min
Lab File: VN055598.D
Acq: 17 May 2019 9:29

Instrument :
MSVOA_N
ClientSampleId :
VSTDIC001

Tot Ion	92	Resp	8534
Ion Ratio	100	Lower	Upper
91	171.4	138.9	208.3

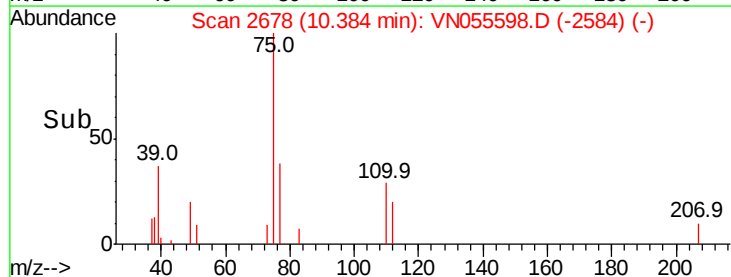
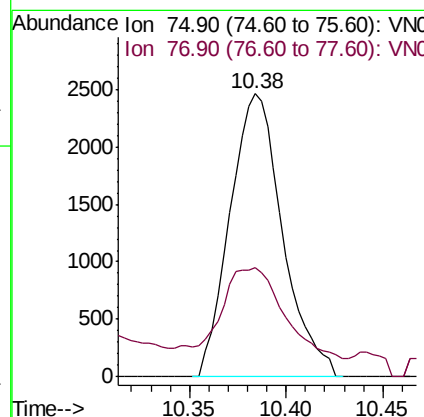
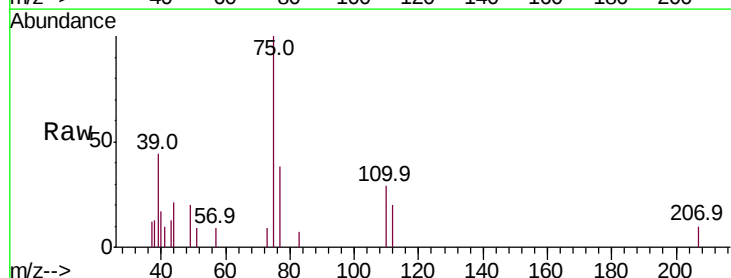
Manual Integrations
APPROVED

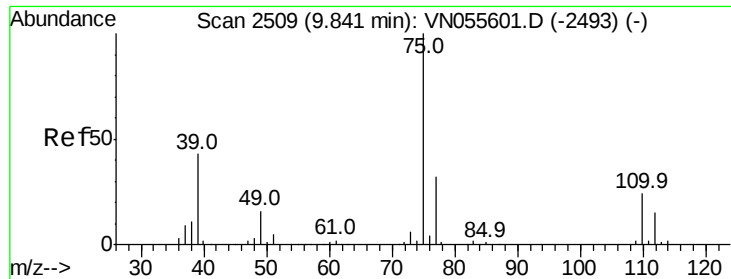
MMDadoda
5/20/2019 9:09:45 AM



#53
t-1,3-Dichloropropene
Concen: 1.114 ug/l
RT: 10.38 min Scan# 2678
Delta R.T. 0.00 min
Lab File: VN055598.D
Acq: 17 May 2019 9:29

Tgt Ion	75	Resp	4646
Ion Ratio	100	Lower	Upper
77	31.7	25.4	38.2





#54

cis-1,3-Dichloropropene

Concen: 1.090 ug/l

RT: 9.84 min Scan# 2508

Delta R.T. -0.00 min

Lab File: VN055598.D

Acq: 17 May 2019 9:29

Instrument :

MSVOA_N

ClientSampleId :

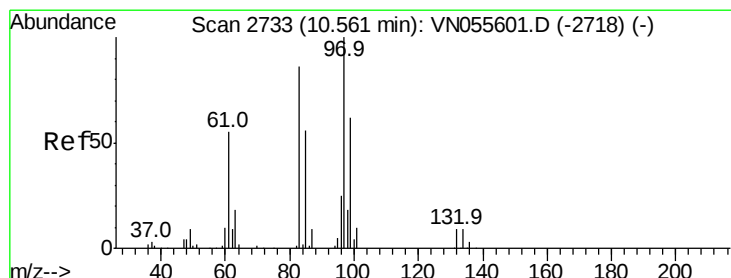
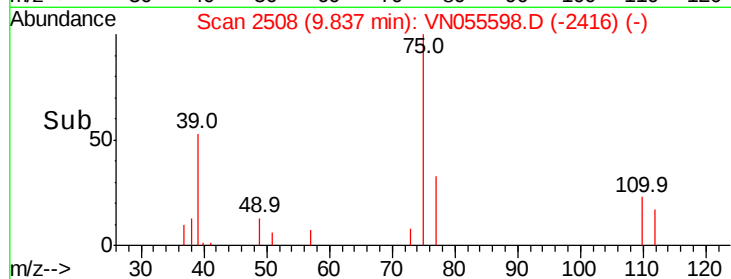
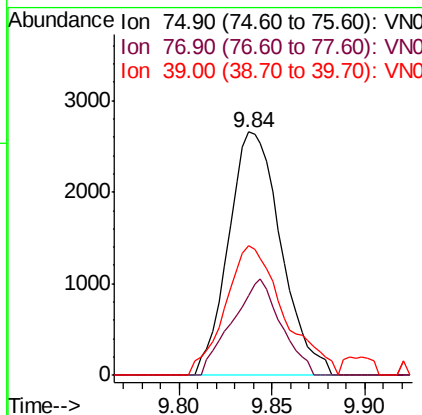
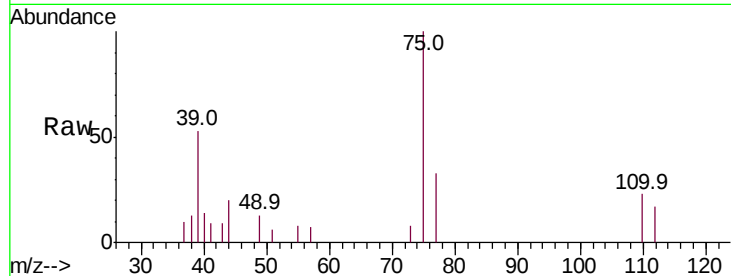
VSTDIC001

Tot Ion: 75 Resp: 5246

Ion	Ratio	Lower	Upper
75	100		
77	32.5	25.7	38.5
39	53.3	34.7	52.1#

Manual Integrations
APPROVED

MMDadoda
5/20/2019 9:09:45 AM



#55

1,1,2-Trichloroethane

Concen: 1.309 ug/l

RT: 10.56 min Scan# 2734

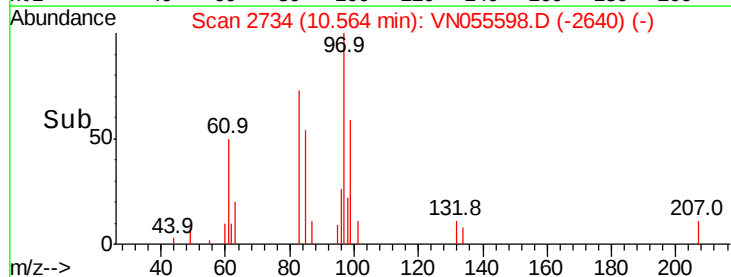
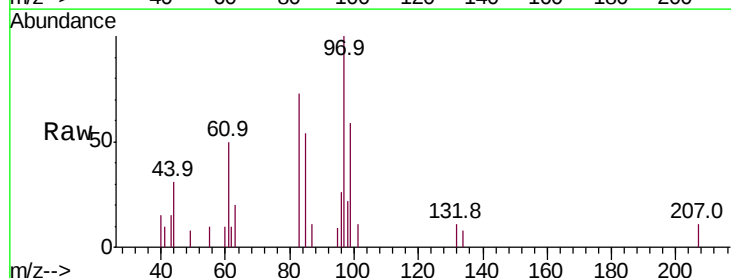
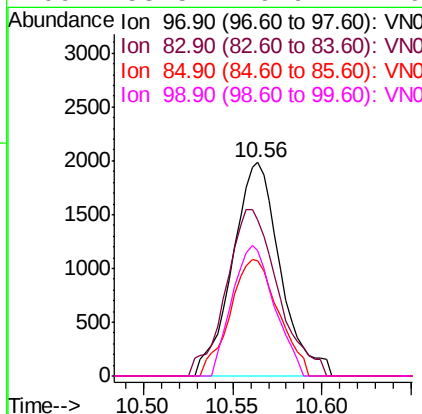
Delta R.T. 0.00 min

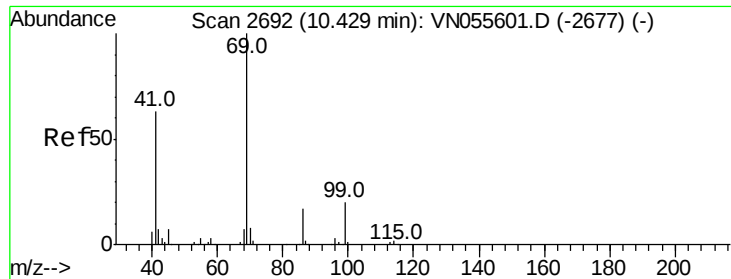
Lab File: VN055598.D

Acq: 17 May 2019 9:29

Tgt Ion: 97 Resp: 3714

Ion	Ratio	Lower	Upper
97	100		
83	72.9	68.4	102.6
85	54.1	44.8	67.2
99	58.5	49.9	74.9





#56

Ethyl methacrylate

Concen: 1.660 ug/l

RT: 10.43 min Scan# 2693

Delta R.T. 0.00 min

Lab File: VN055598.D

Acq: 17 May 2019 9:29

Instrument :

MSVOA_N

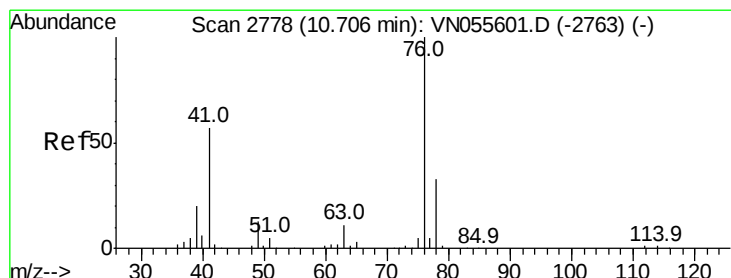
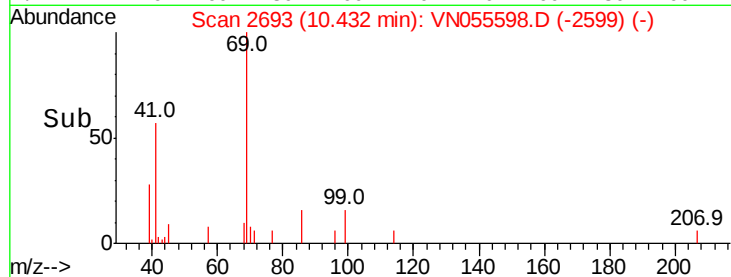
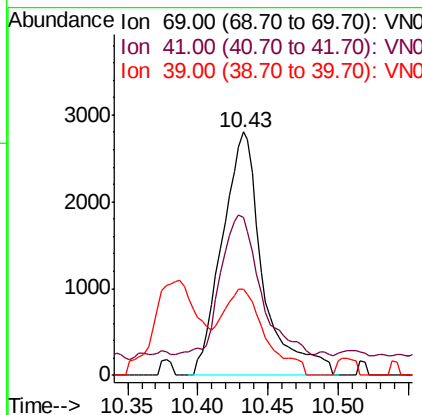
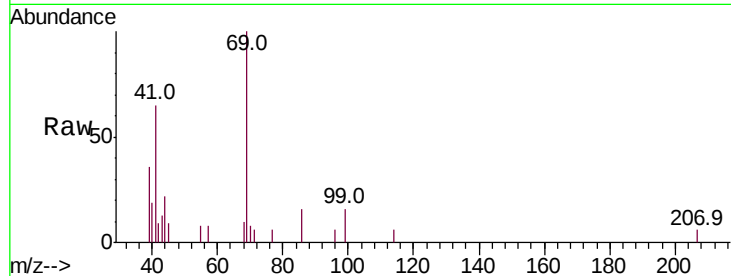
ClientSampled :

VSTDIC001

Tot Ion:	69	Resp:	5631
Ion	Ratio	Lower	Upper
69	100		
41	59.1	50.3	75.5
39	37.8	25.4	38.2

Manual Integrations
APPROVED

MMDadoda
5/20/2019 9:09:45 AM



#57

1,3-Dichloropropane

Concen: 1.118 ug/l

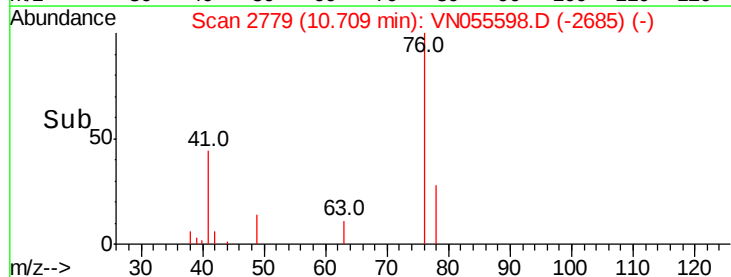
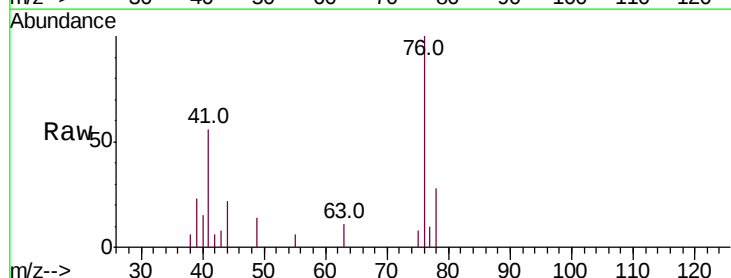
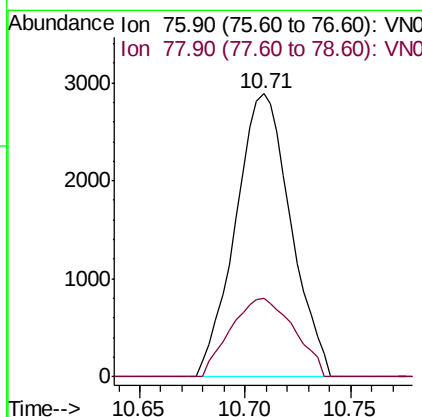
RT: 10.71 min Scan# 2779

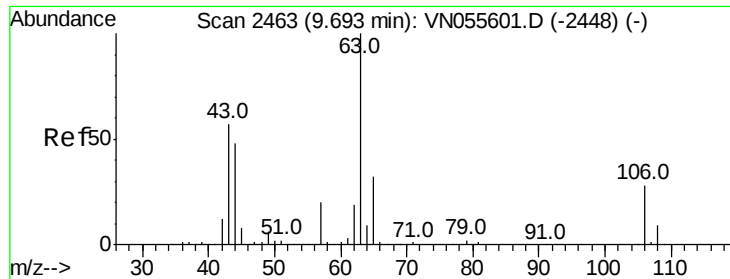
Delta R.T. 0.00 min

Lab File: VN055598.D

Acq: 17 May 2019 9:29

Tgt Ion:	76	Resp:	5253
Ion	Ratio	Lower	Upper
76	100		
78	31.8	26.5	39.7





#58

2-Chloroethyl Vinyl ether

Concen: 6.359 ug/l

RT: 9.70 min Scan# 2464

Delta R.T. 0.00 min

Lab File: VN055598.D

Acq: 17 May 2019 9:29

Instrument :

MSVOA_N

ClientSampled :

VSTDIC001

Tot Ion: 63 Resp: 9497

Ion Ratio Lower Upper

63 100

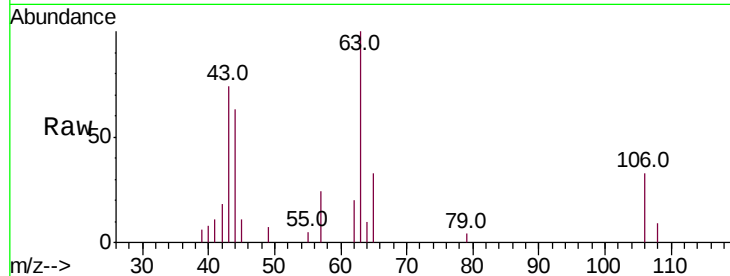
106 28.9 23.0 34.6

Manual Integrations

APPROVED

MMDadoda

5/20/2019 9:09:45 AM



Abundance Ion 62.90 (62.60 to 63.60): VN055598.D (-2370) (-)

Ion 105.90 (105.60 to 106.60): VN055598.D (-2370) (-)

9.70

5000

4000

3000

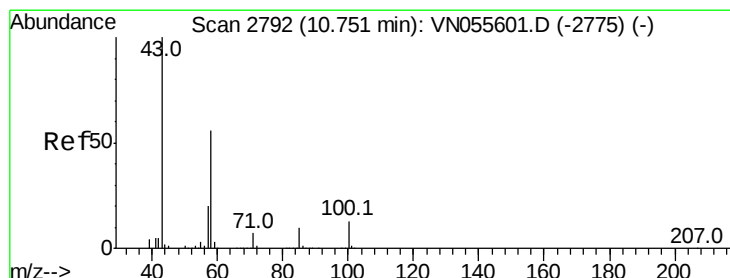
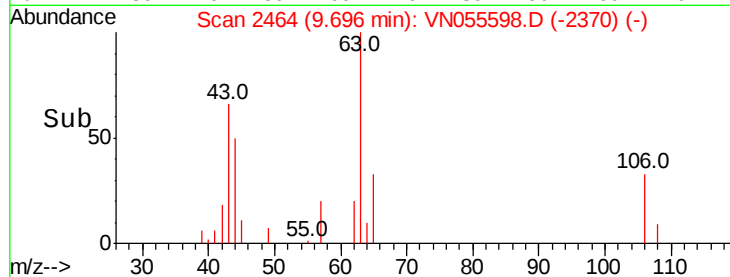
2000

1000

0

9.65 9.70 9.75 9.80

Time-->



#59

2-Hexanone

Concen: 7.798 ug/l

RT: 10.75 min Scan# 2793

Delta R.T. 0.00 min

Lab File: VN055598.D

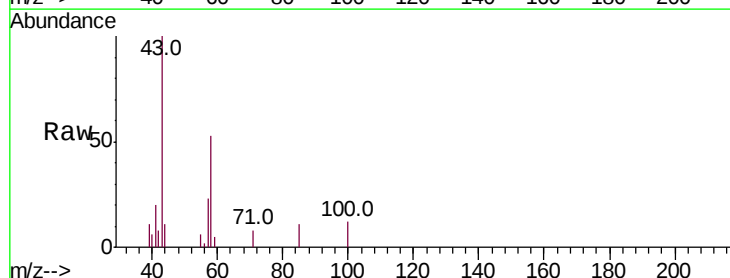
Acq: 17 May 2019 9:29

Tgt Ion: 43 Resp: 12927

Ion Ratio Lower Upper

43 100

58 57.1 28.1 84.4



Abundance Ion 43.00 (42.70 to 43.70): VN055598.D (-2699) (-)

Ion 58.00 (57.70 to 58.70): VN055598.D (-2699) (-)

10.75

8000

6000

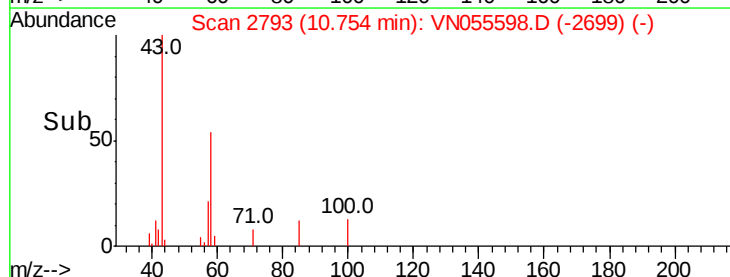
4000

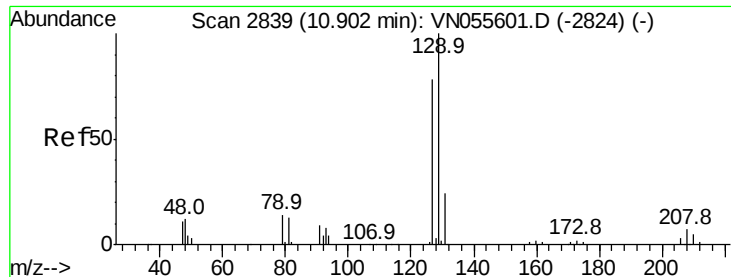
2000

0

10.70 10.75 10.80

Time-->





#60

Dibromochloromethane

Concen: 1.123 ug/l

RT: 10.90 min Scan# 2839

Delta R.T. -0.00 min

Lab File: VN055598.D

Acq: 17 May 2019 9:29

Instrument :

MSVOA_N

ClientSampleId :

VSTDIC001

Tot Ion:129 Resp: 3693

Ion Ratio Lower Upper

129 100

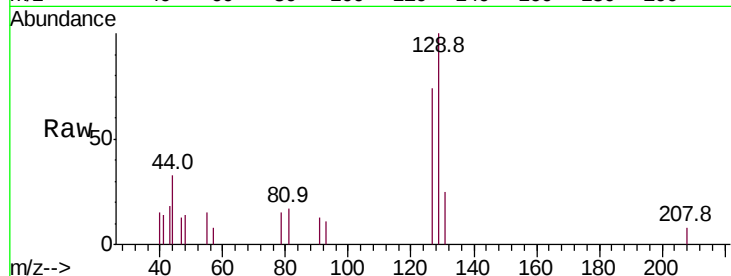
127 77.6 38.6 115.8

Manual Integrations

APPROVED

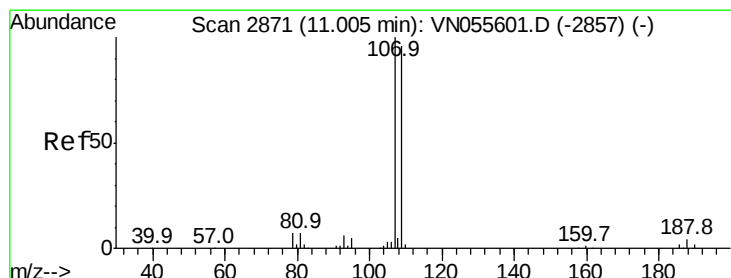
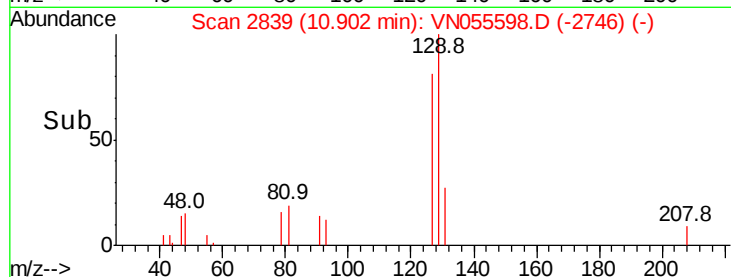
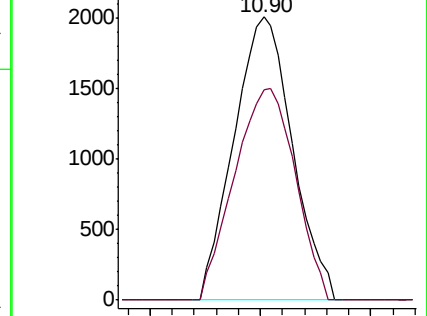
MMDadoda

5/20/2019 9:09:45 AM



Abundance Ion 128.80 (128.50 to 129.50): V

Ion 126.80 (126.50 to 127.50): V



#61

1,2-Dibromoethane

Concen: 1.144 ug/l

RT: 11.00 min Scan# 2871

Delta R.T. -0.00 min

Lab File: VN055598.D

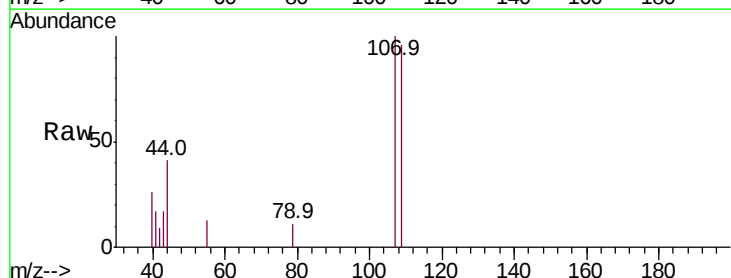
Acq: 17 May 2019 9:29

Tgt Ion:107 Resp: 3231

Ion Ratio Lower Upper

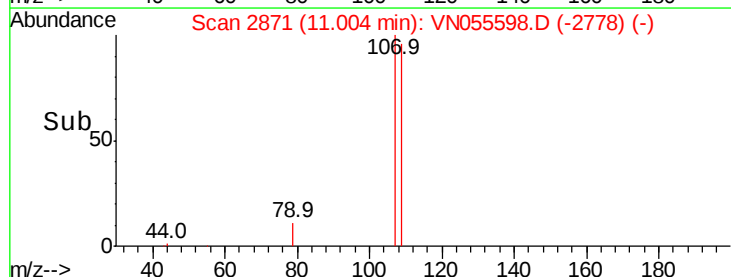
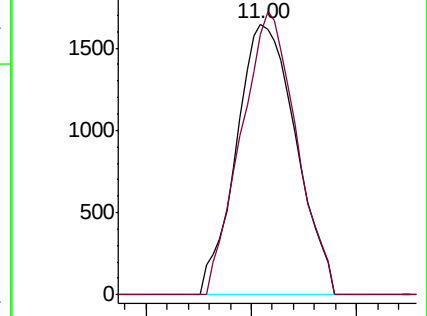
107 100

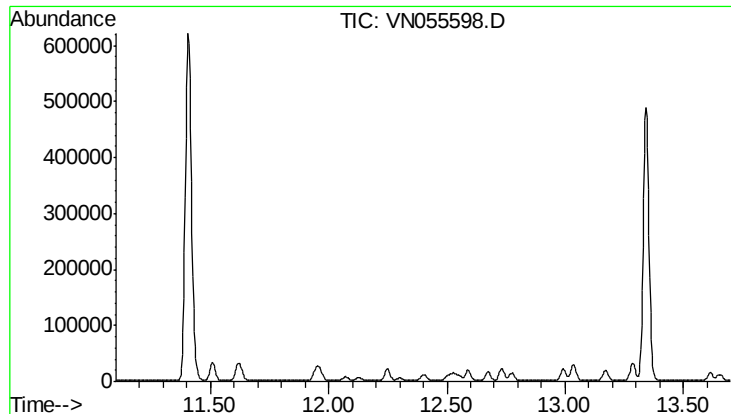
109 97.4 75.6 113.4



Abundance Ion 106.90 (106.60 to 107.60): V

Ion 108.80 (108.50 to 109.50): V





#62
4-Bromofluorobenzene
Concen: 0.000 ug/l
Expected RT: 12.40 min

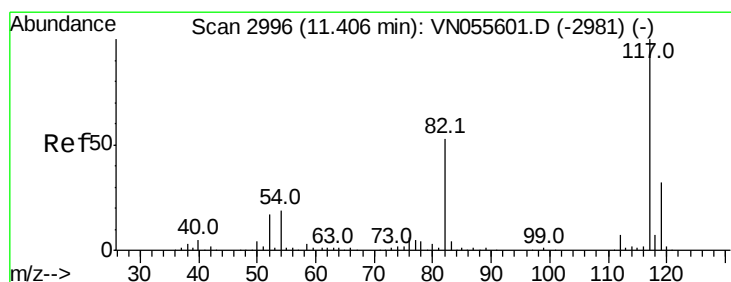
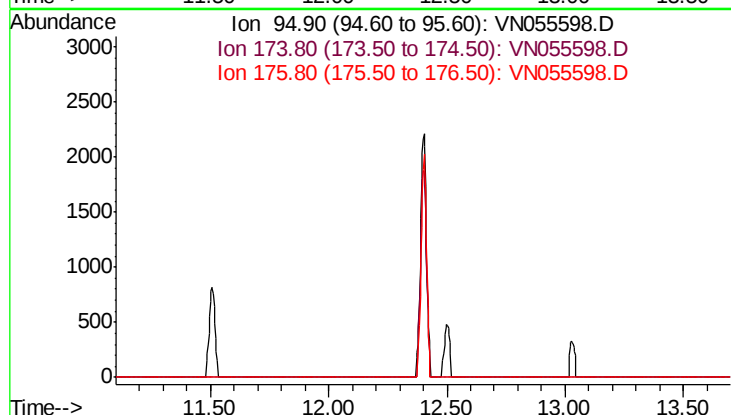
Lab File: VN055598.D
Acq: 17 May 2019 9:29

Instrument :
MSVOA_N
ClientSampleId :
VSTDIC001

Tot Ion: 95
Sig Exp Ratio
95 100
174 90.3
176 88.7

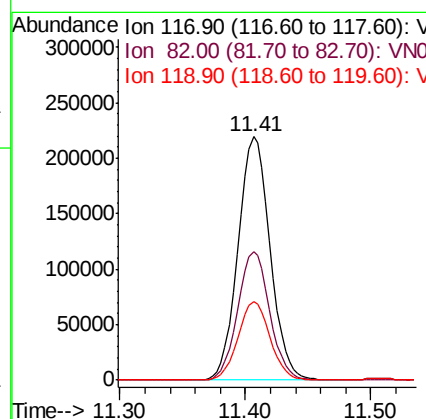
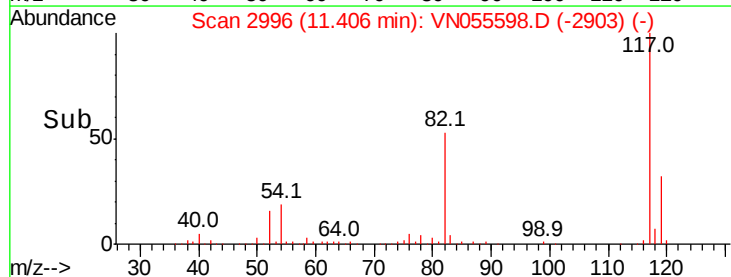
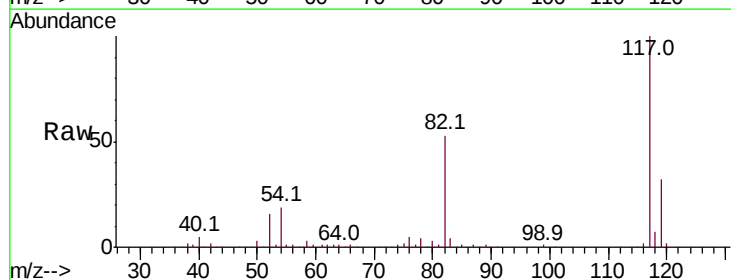
Manual Integrations
APPROVED

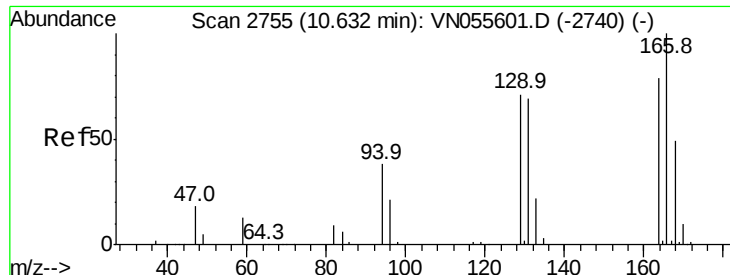
MMDadoda
5/20/2019 9:09:45 AM



#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.41 min Scan# 2996
Delta R.T. -0.00 min
Lab File: VN055598.D
Acq: 17 May 2019 9:29

Tgt Ion: 117 Resp: 389146
Ion Ratio Lower Upper
117 100
82 52.6 42.3 63.5
119 32.2 25.4 38.2





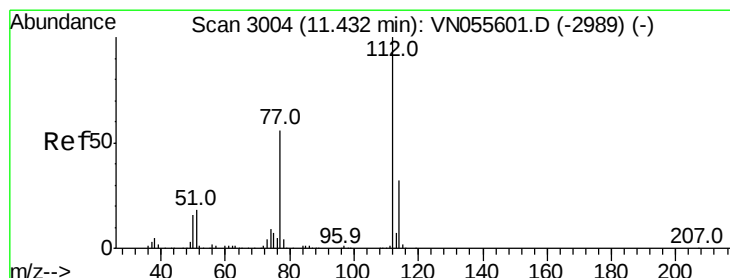
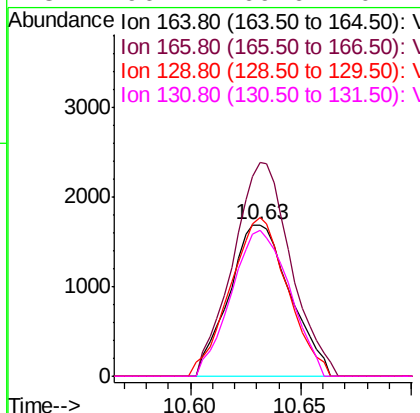
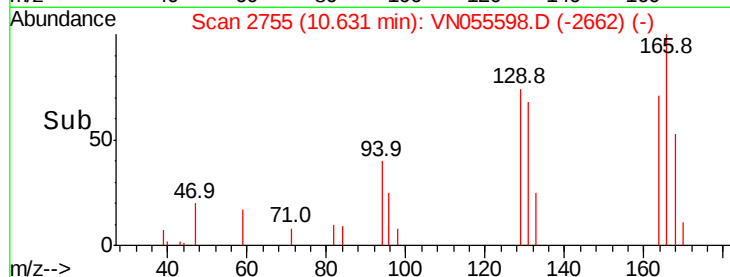
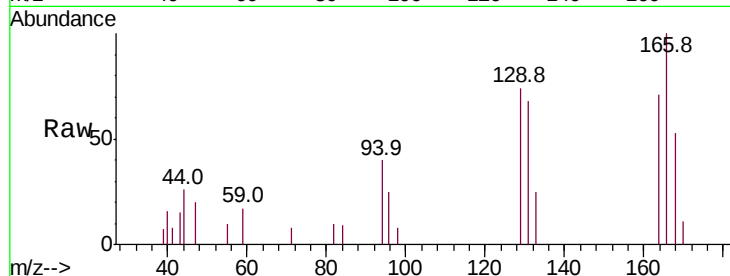
#64
Tetrachloroethene
Concen: 0.947 ug/l
RT: 10.63 min Scan# 2755
Delta R.T. -0.00 min
Lab File: VN055598.D
Acq: 17 May 2019 9:29

Instrument :
MSVOA_N
ClientSampled :
VSTDIC001

Tot Ion	Ratio	Lower	Upper
164	100		
166	141.2	101.0	151.6
129	105.0	71.7	107.5
131	96.4	69.6	104.4

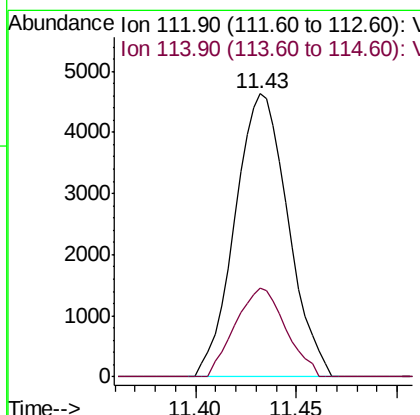
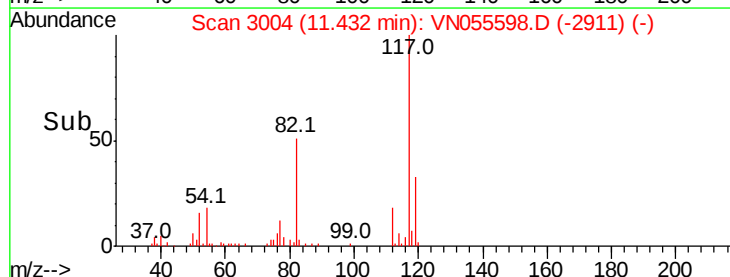
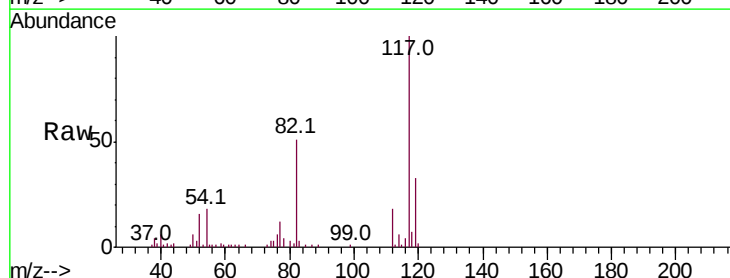
Manual Integrations
APPROVED

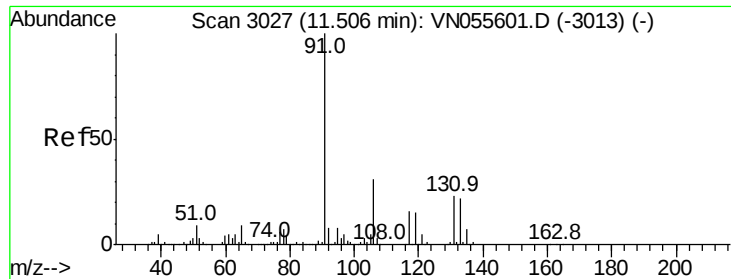
MMDadoda
5/20/2019 9:09:45 AM



#65
Chlorobenzene
Concen: 1.048 ug/l
RT: 11.43 min Scan# 3004
Delta R.T. -0.00 min
Lab File: VN055598.D
Acq: 17 May 2019 9:29

Tgt Ion	Ratio	Lower	Upper
112	100		
114	31.3	25.6	38.4





#66

1,1,1,2-Tetrachloroethane

Concen: 1.175 ug/l

RT: 11.51 min Scan# 3028

Delta R.T. 0.00 min

Lab File: VN055598.D

Acq: 17 May 2019 9:29

Instrument :

MSVOA_N

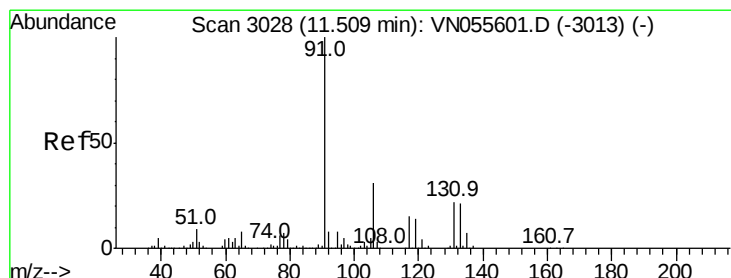
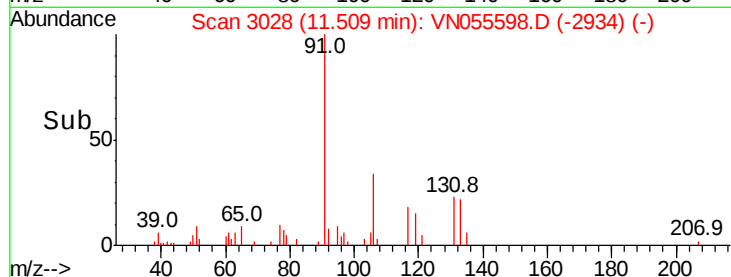
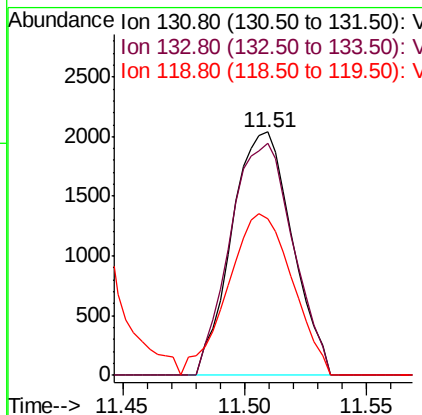
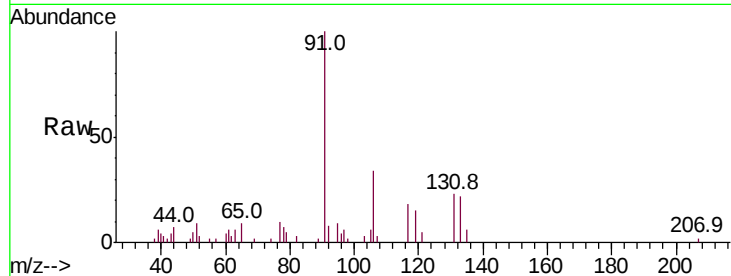
ClientSampleId :

VSTDIC001

Tot Ion	Ratio	Lower	Upper
131	100		
133	99.2	47.8	143.4
119	0.0	33.3	99.8#

Manual Integrations
APPROVED

MMDadoda
5/20/2019 9:09:45 AM



#67

Ethyl Benzene

Concen: 1.169 ug/l

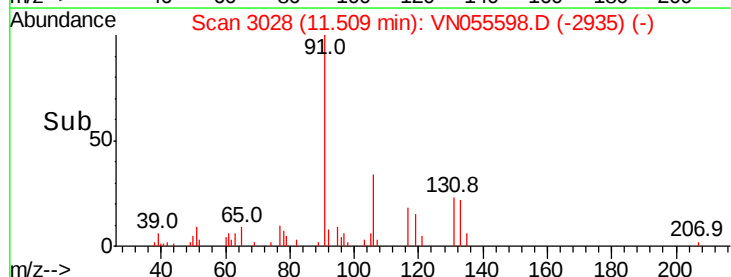
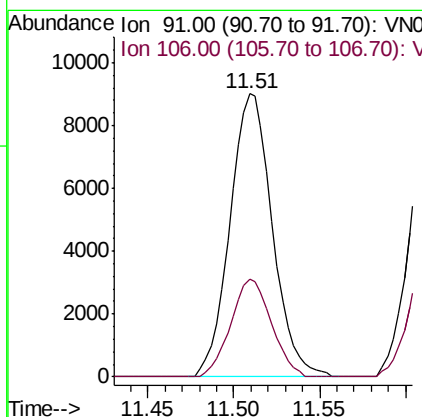
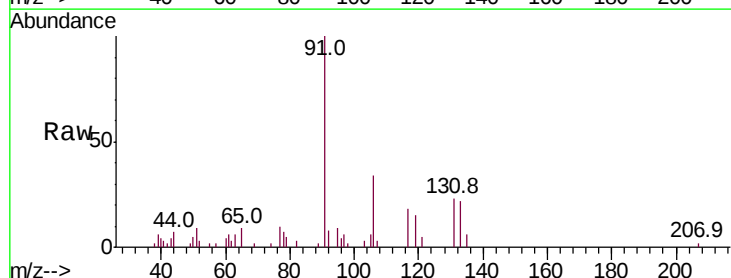
RT: 11.51 min Scan# 3028

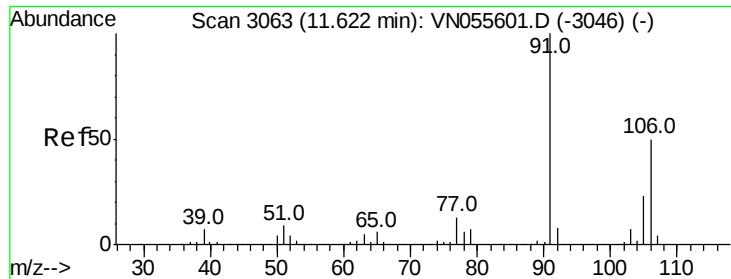
Delta R.T. -0.00 min

Lab File: VN055598.D

Acq: 17 May 2019 9:29

Tgt Ion	Ratio	Lower	Upper
91	100		
106	34.5	25.2	37.8





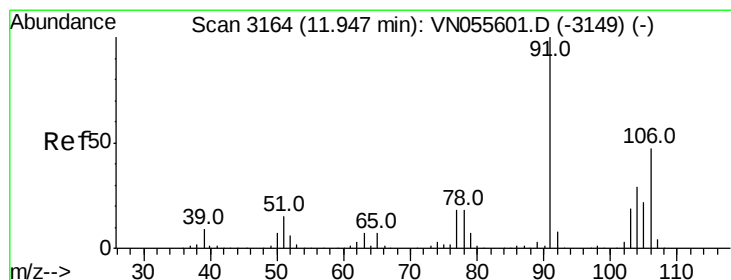
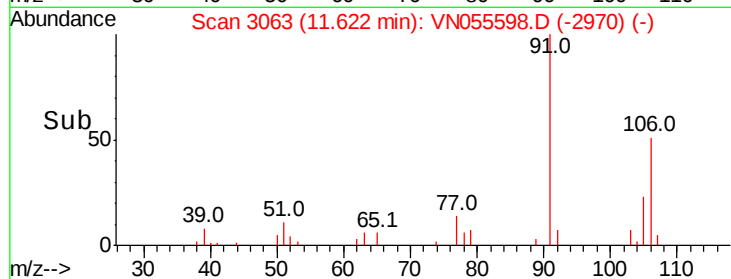
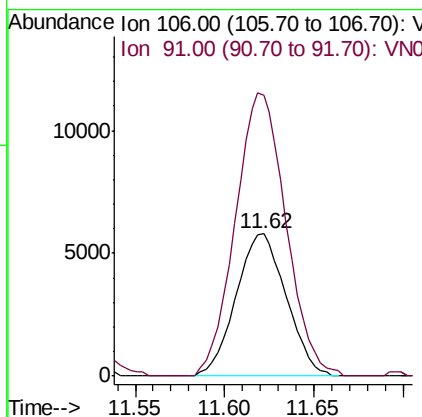
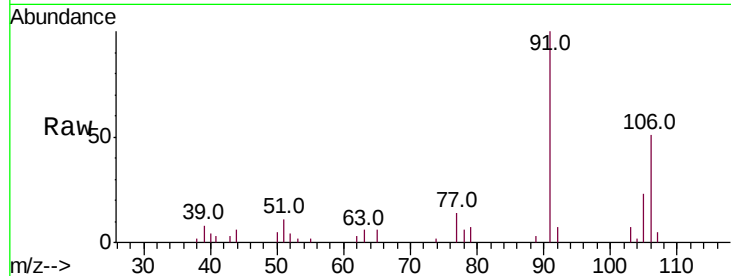
#68
m/p-Xylenes
Concen: 2.235 ug/l
RT: 11.62 min Scan# 3063
Delta R.T. -0.00 min
Lab File: VN055598.D
Acq: 17 May 2019 9:29

Instrument :
MSVOA_N
ClientSampled :
VSTDIC001

Tot Ion:106 Resp: 11385
Ion Ratio Lower Upper
106 100
91 200.5 160.5 240.7

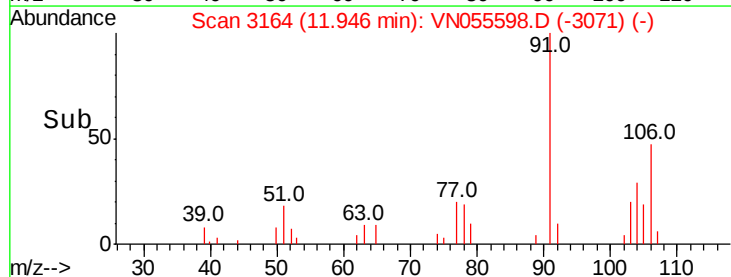
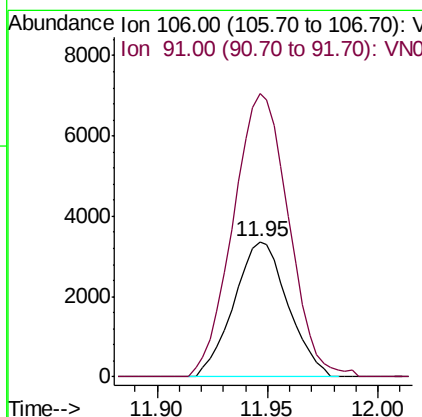
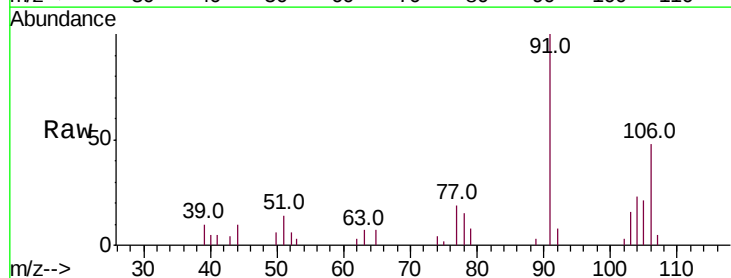
Manual Integrations
APPROVED

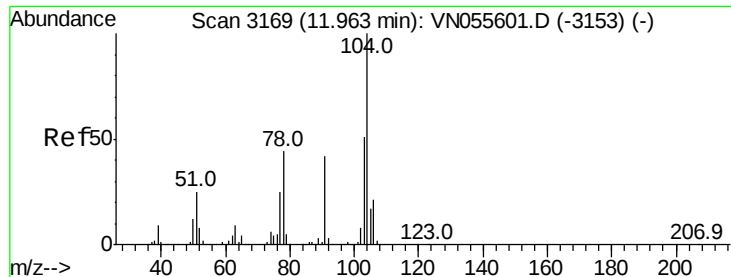
MMDadoda
5/20/2019 9:09:45 AM



#69
o-Xylene
Concen: 1.163 ug/l
RT: 11.95 min Scan# 3164
Delta R.T. -0.00 min
Lab File: VN055598.D
Acq: 17 May 2019 9:29

Tgt Ion:106 Resp: 5717
Ion Ratio Lower Upper
106 100
91 215.2 106.7 320.2





#70

Stvrene

Concen: 1.100 ug/l

RT: 11.96 min Scan# 3169

Delta R.T. -0.00 min

Lab File: VN055598.D

Acq: 17 May 2019 9:29

Instrument :

MSVOA_N

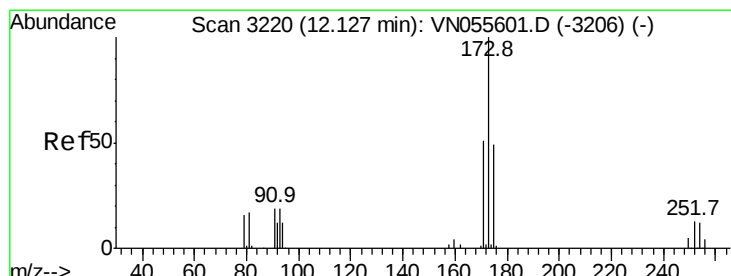
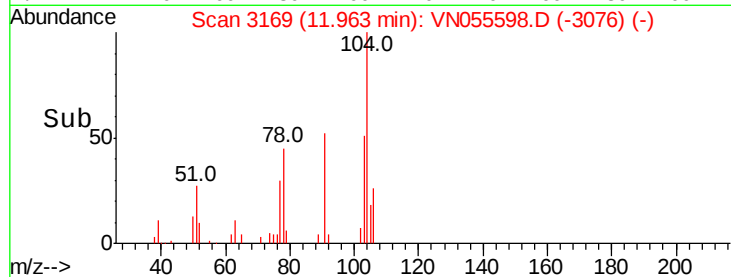
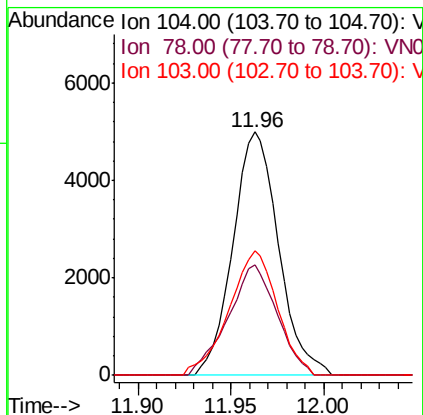
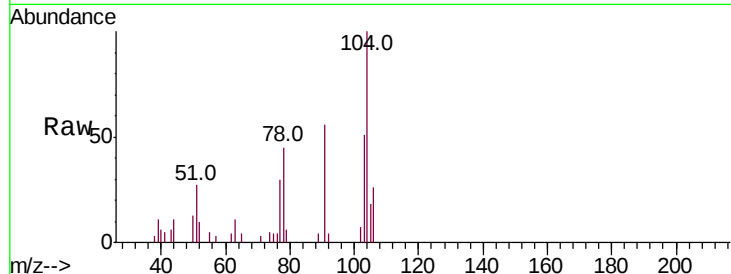
ClientSampleId :

VSTDIC001

Tot Ion:	104	Resp:	8565
Ion Ratio	Lower	Upper	
104	100		
78	48.4	38.6	58.0
103	54.1	44.4	66.6

Manual Integrations
APPROVED

MMDadoda
5/20/2019 9:09:45 AM



#71

Bromoform

Concen: 1.189 ug/l

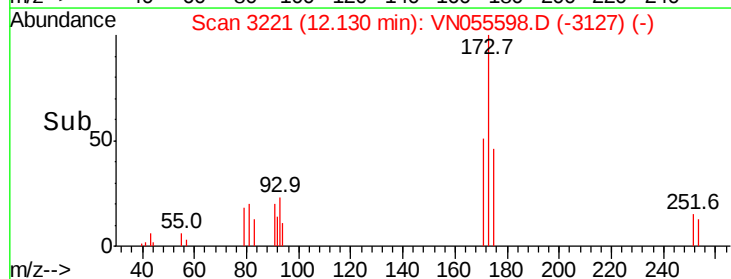
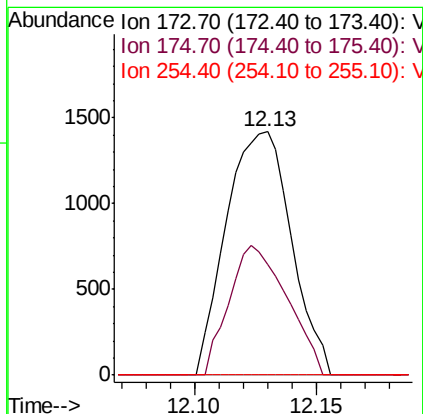
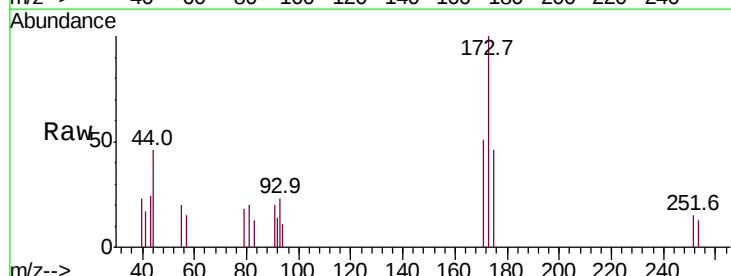
RT: 12.13 min Scan# 3221

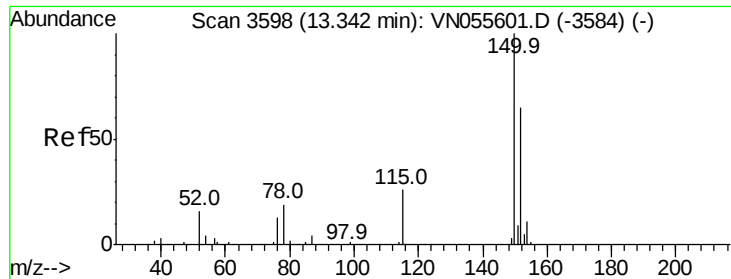
Delta R.T. 0.00 min

Lab File: VN055598.D

Acq: 17 May 2019 9:29

Tgt Ion:	173	Resp:	2626
Ion Ratio	Lower	Upper	
173	100		
175	47.6	24.3	72.9
254	0.0	0.1	0.1#





#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

RT: 13.34 min Scan# 3598

Delta R.T. -0.00 min

Lab File: VN055598.D

Acq: 17 May 2019 9:29

Instrument :

MSVOA_N

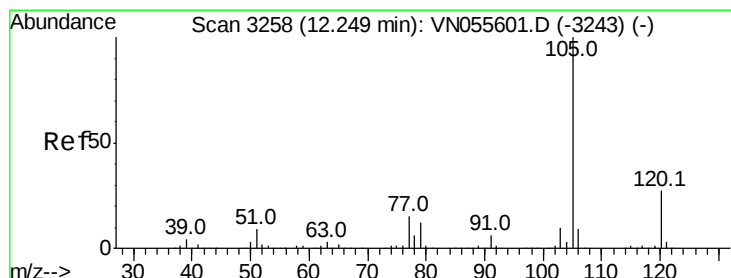
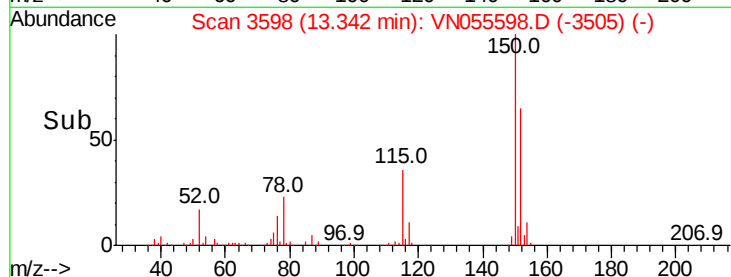
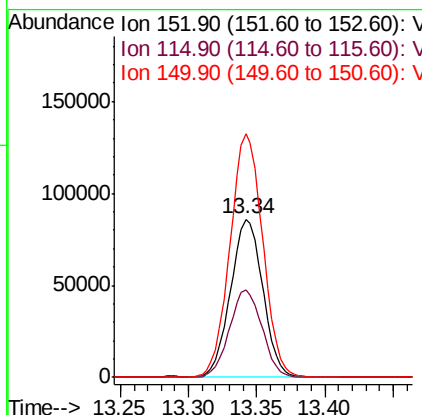
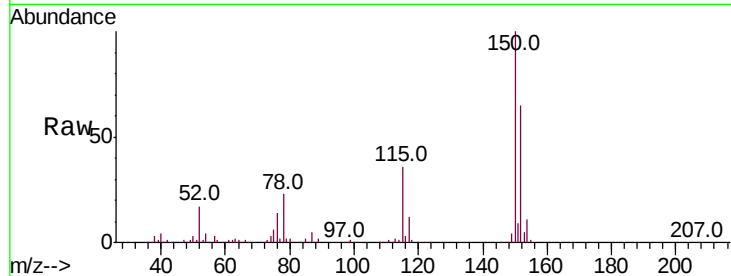
ClientSampleId :

VSTDIC001

Tot Ion:	152	Resp:	141559
Ion Ratio	Lower	Upper	
152	100		
115	56.0	28.1	84.2
150	155.1	0.0	348.0

Manual Integrations
APPROVED

MMDadoda
5/20/2019 9:09:45 AM



#73

Isopropylbenzene

Concen: 1.504 ug/l

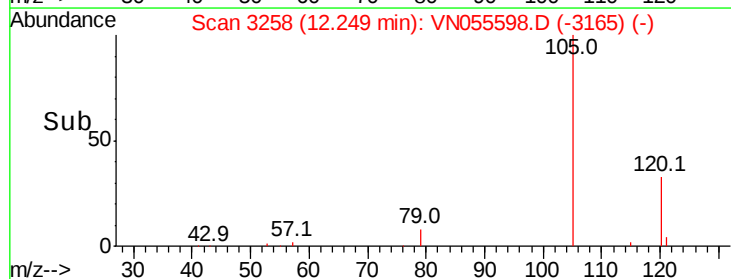
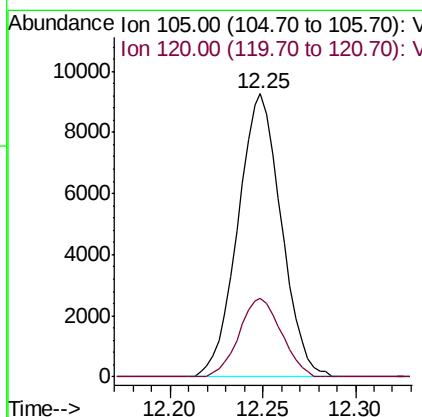
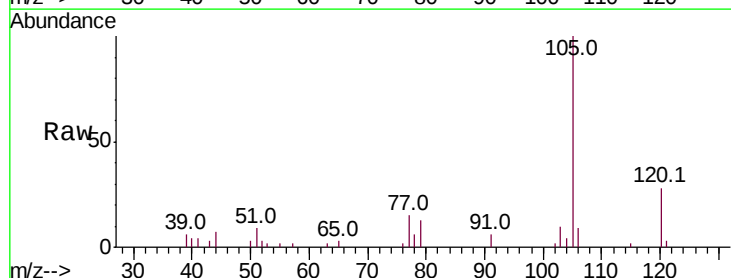
RT: 12.25 min Scan# 3258

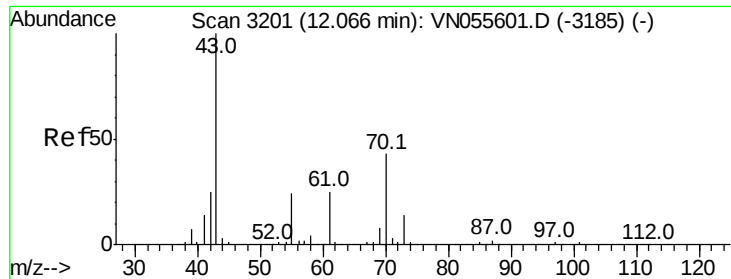
Delta R.T. -0.00 min

Lab File: VN055598.D

Acq: 17 May 2019 9:29

Tgt Ion:	105	Resp:	15078
Ion Ratio	Lower	Upper	
105	100		
120	27.1	13.4	40.2





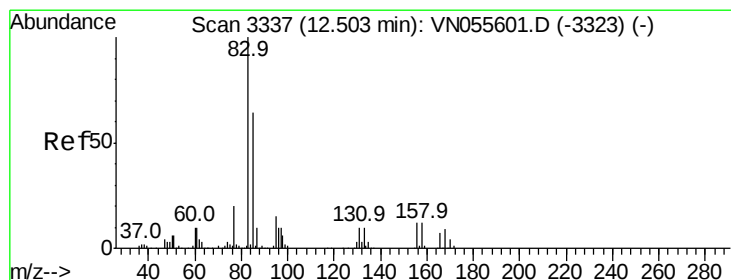
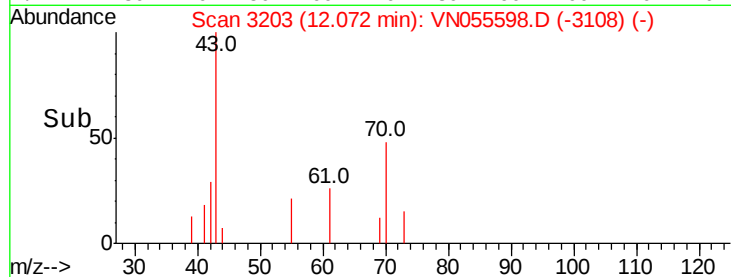
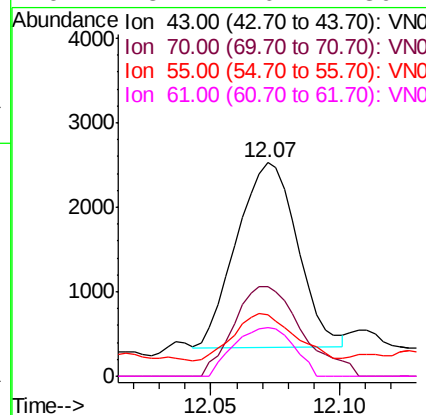
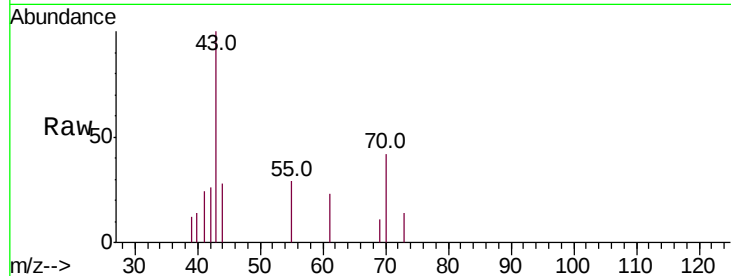
#74
N-amvl acetate
Concen: 1.403 ug/l
RT: 12.07 min Scan# 3203
Delta R.T. 0.01 min
Lab File: VN055598.D
Acq: 17 May 2019 9:29

Instrument :
MSVOA_N
ClientSampleId :
VSTDIC001

Tot Ion	Ratio	Lower	Upper
43	100		
70	54.2	35.0	52.6#
55	25.9	18.9	28.3
61	25.7	20.1	30.1

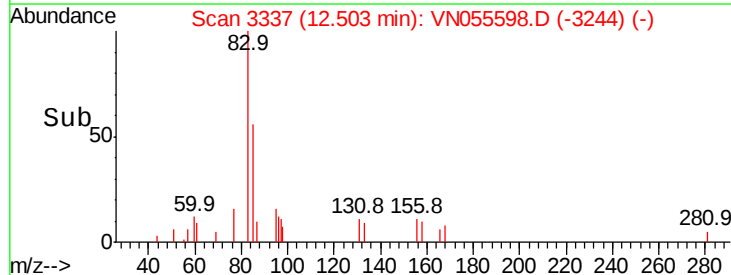
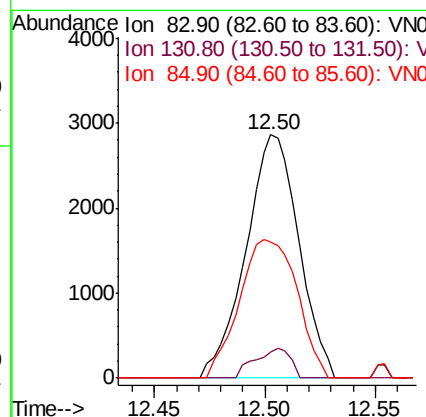
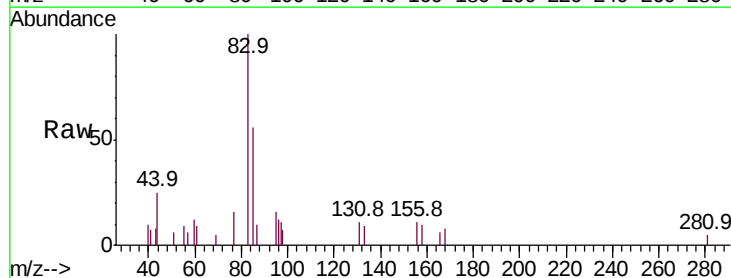
Manual Integrations
APPROVED

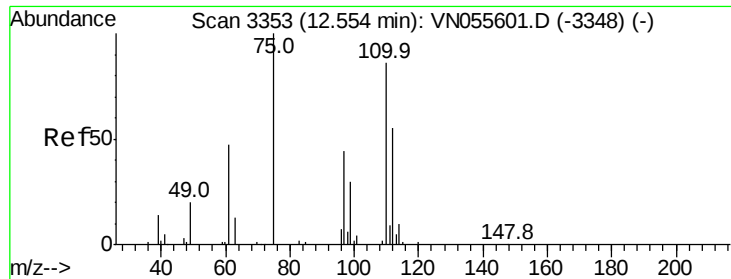
MMDadoda
5/20/2019 9:09:45 AM



#75
1,1,2,2-Tetrachloroethane
Concen: 1.895 ug/l
RT: 12.50 min Scan# 3337
Delta R.T. -0.00 min
Lab File: VN055598.D
Acq: 17 May 2019 9:29

Tgt Ion	Ratio	Lower	Upper
83	100		
131	8.3	5.3	16.1
85	62.1	32.0	96.2





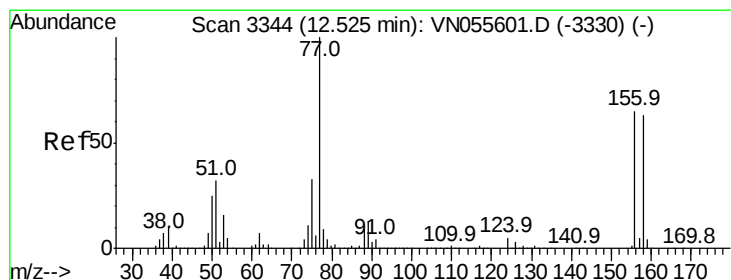
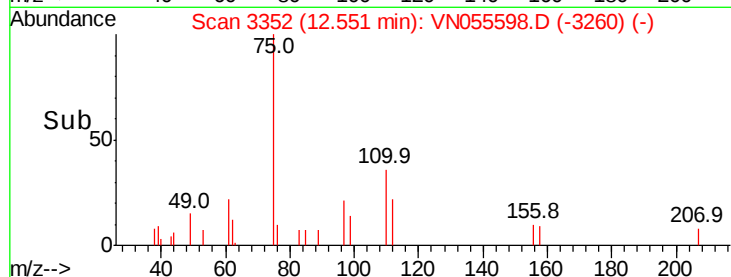
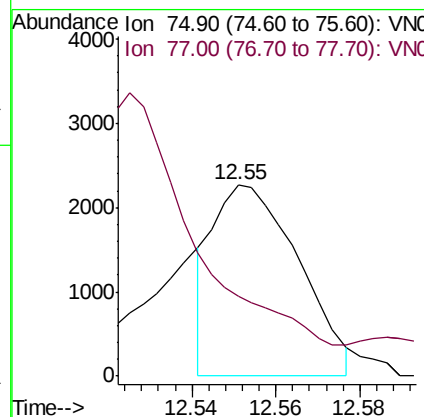
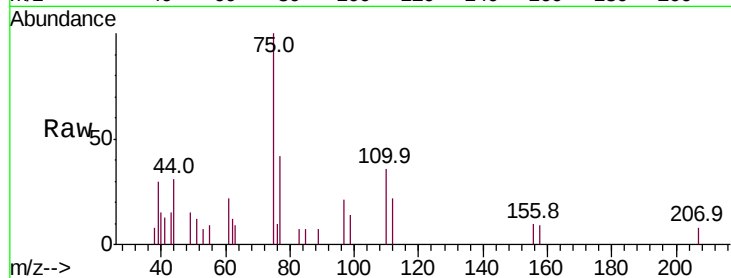
#76
 1,2,3-Trichloropropane
 Concen: 1.479 ug/l m
 RT: 12.55 min Scan# 3352
 Delta R.T. -0.00 min
 Lab File: VN055598.D
 Acq: 17 May 2019 9:29

Instrument :
 MSVOA_N
 ClientSampleId :
 VSTDIC001

Tot Ion: 75 Resp: 3216
 Ion Ratio Lower Upper
 75 100
 77 0.0 0.0 0.0

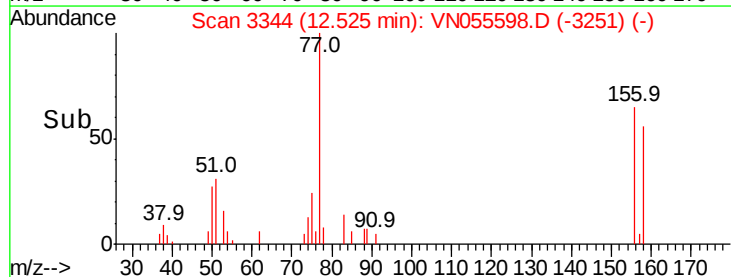
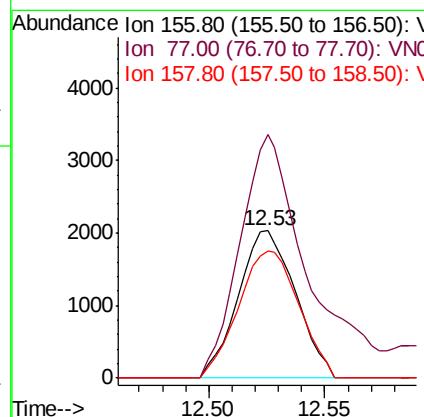
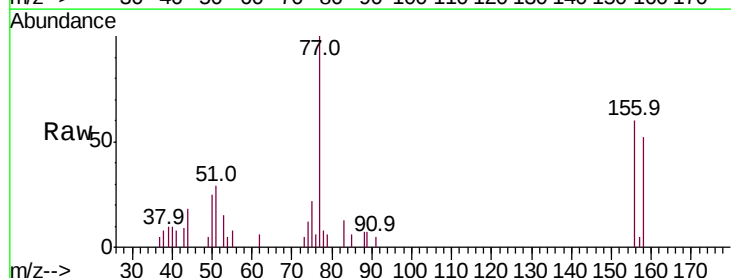
Manual Integrations
 APPROVED

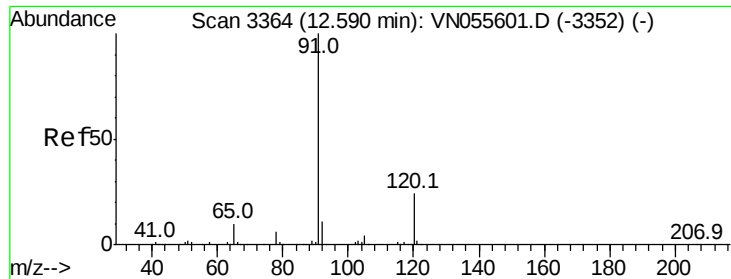
MMDadoda
 5/20/2019 9:09:45 AM



#77
 Bromobenzene
 Concen: 1.298 ug/l
 RT: 12.53 min Scan# 3344
 Delta R.T. -0.00 min
 Lab File: VN055598.D
 Acq: 17 May 2019 9:29

Tgt Ion: 156 Resp: 3480
 Ion Ratio Lower Upper
 156 100
 77 196.3 94.5 283.5
 158 90.9 49.0 147.2





#78

n-propylbenzene

Concen: 1.407 ug/l

RT: 12.59 min Scan# 3364

Delta R.T. -0.00 min

Lab File: VN055598.D

Acq: 17 May 2019 9:29

Instrument :

MSVOA_N

ClientSampleId :

VSTDIC001

Tot Ion: 91 Resp: 15704

Ion Ratio Lower Upper

91 100

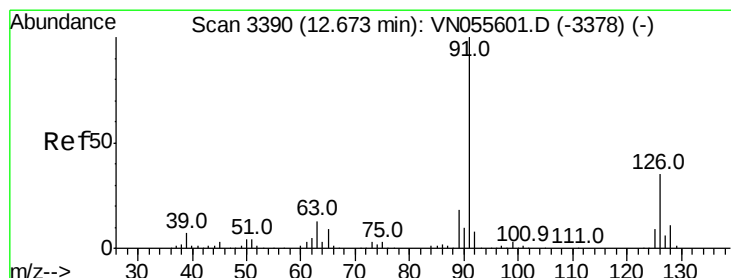
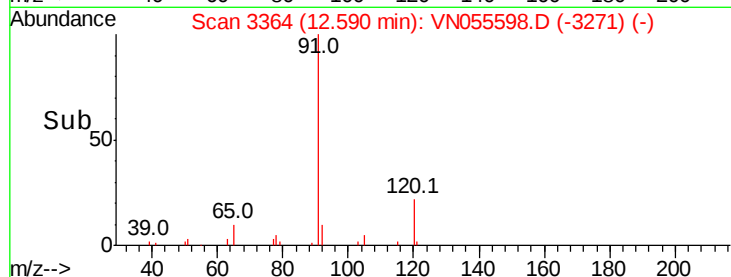
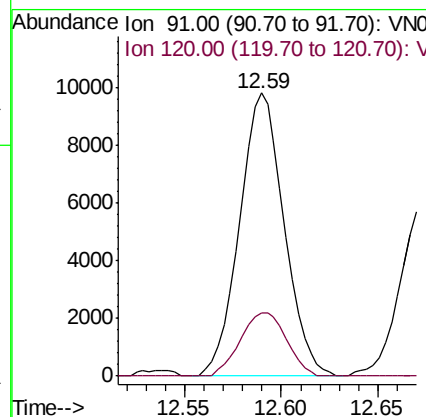
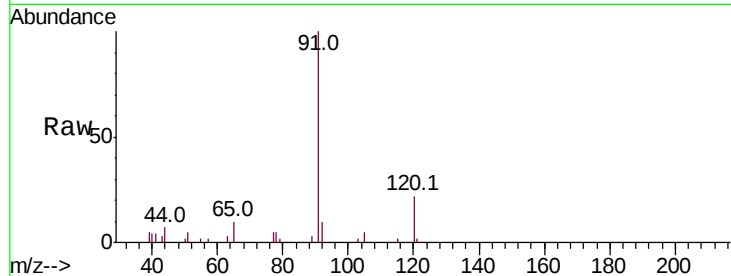
120 23.3 11.9 35.5

Manual Integrations

APPROVED

MMDadoda

5/20/2019 9:09:45 AM



#79

2-Chlorotoluene

Concen: 1.462 ug/l

RT: 12.67 min Scan# 3390

Delta R.T. -0.00 min

Lab File: VN055598.D

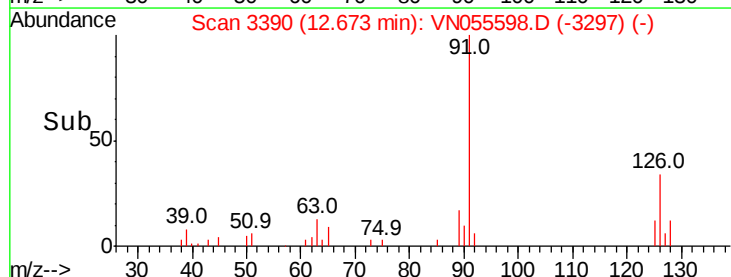
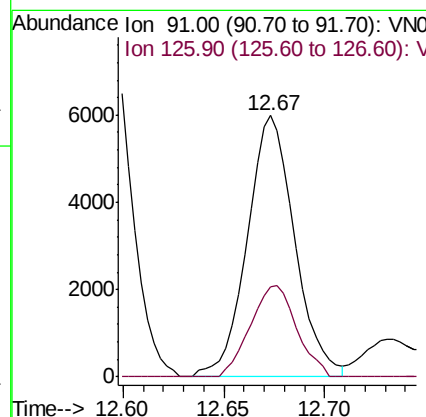
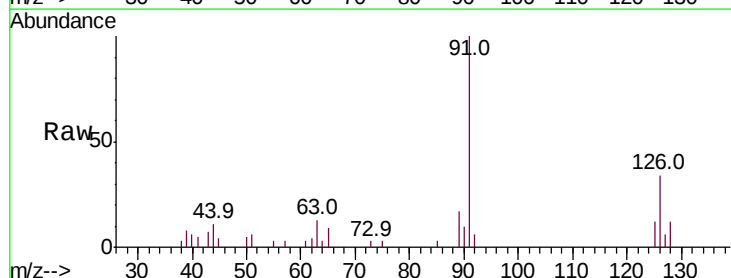
Acq: 17 May 2019 9:29

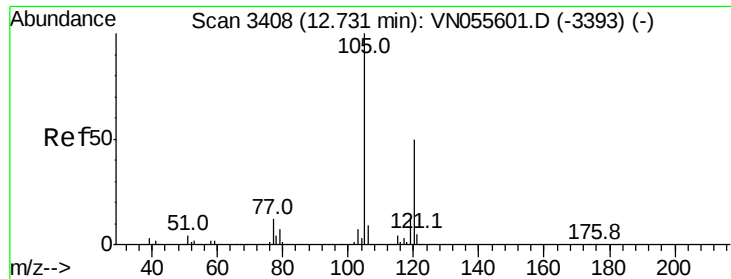
Tgt Ion: 91 Resp: 9862

Ion Ratio Lower Upper

91 100

126 34.0 17.8 53.4





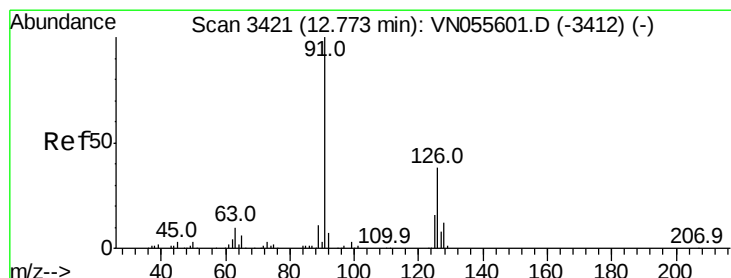
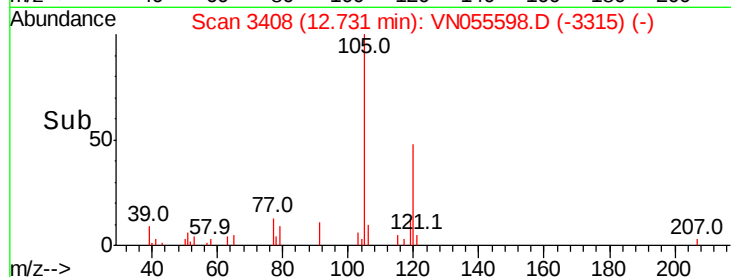
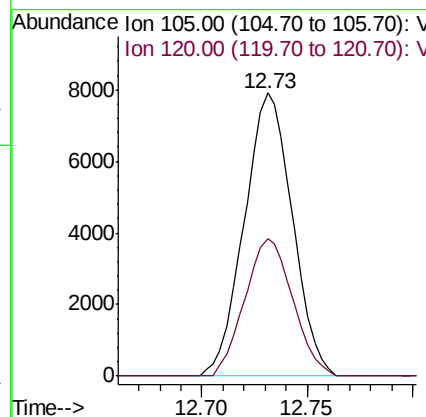
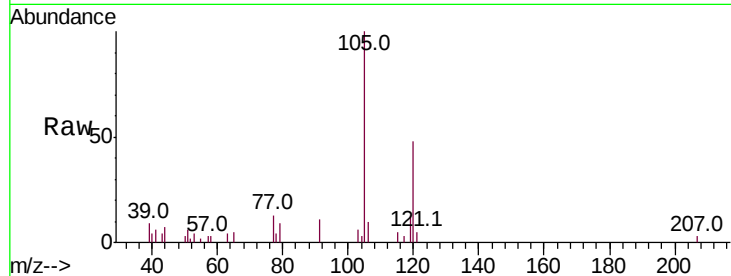
#80
 1,3,5-Trimethylbenzene
 Concen: 1.507 ug/l
 RT: 12.73 min Scan# 3408
 Delta R.T. -0.00 min
 Lab File: VN055598.D
 Acq: 17 May 2019 9:29

Instrument :
 MSVOA_N
 ClientSampled :
 VSTDIC001

Tot Ion	Ratio	Lower	Upper
105	100		
120	48.4	24.6	74.0

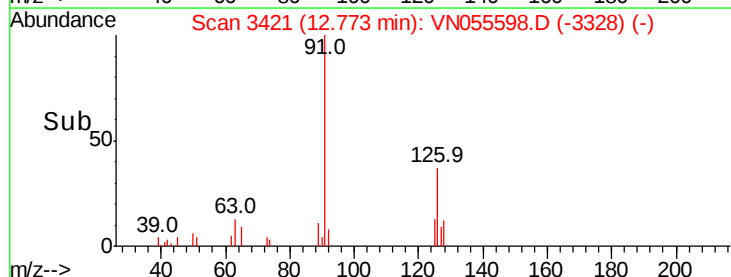
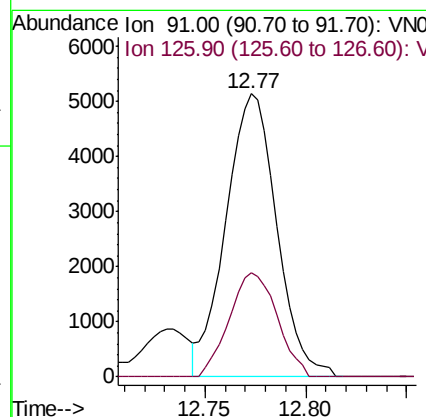
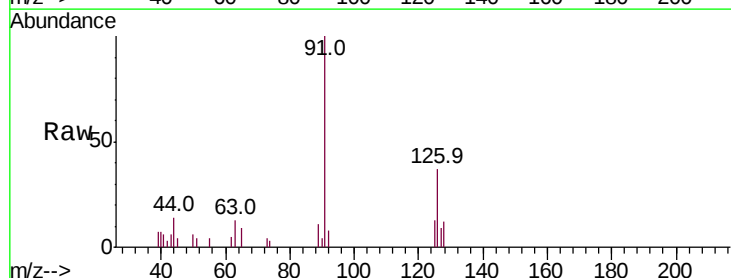
Manual Integrations
 APPROVED

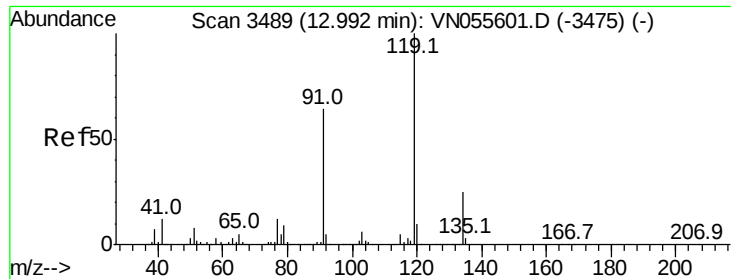
MMDadoda
 5/20/2019 9:09:45 AM



#82
 4-Chlorotoluene
 Concen: 1.348 ug/l
 RT: 12.77 min Scan# 3421
 Delta R.T. -0.00 min
 Lab File: VN055598.D
 Acq: 17 May 2019 9:29

Tgt Ion	Ratio	Lower	Upper
91	100		
126	34.8	17.5	52.6





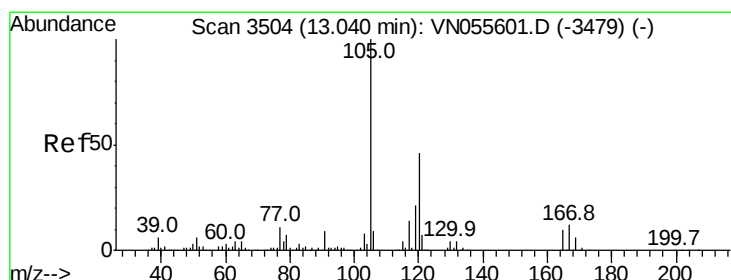
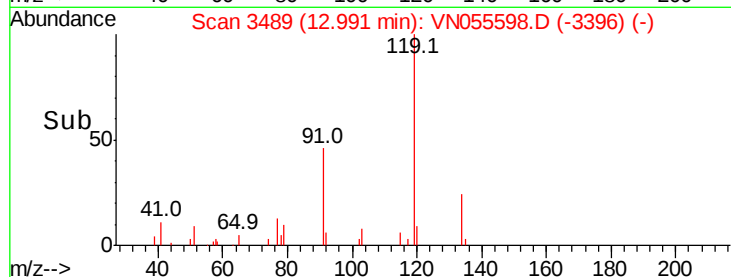
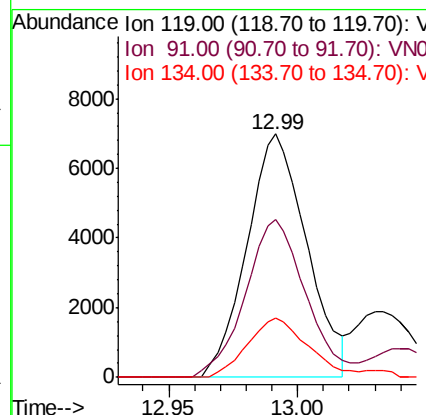
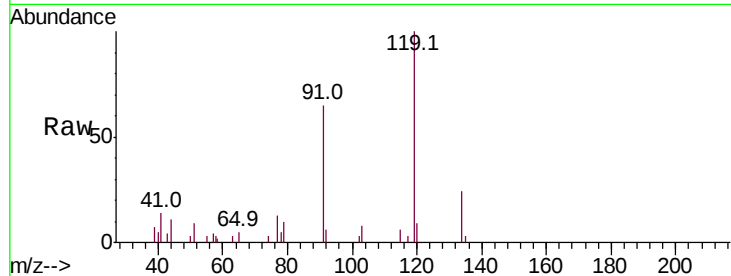
#83
tert-Butylbenzene
Concen: 1.521 ug/l
RT: 12.99 min Scan# 3489
Delta R.T. -0.00 min
Lab File: VN055598.D
Acq: 17 May 2019 9:29

Instrument :
MSVOA_N
ClientSampleId :
VSTDIC001

Tot Ion	Ratio	Resp	Lower	Upper
119	100	11309		
91	65.0	31.3	93.8	
134	24.6	13.2	39.6	

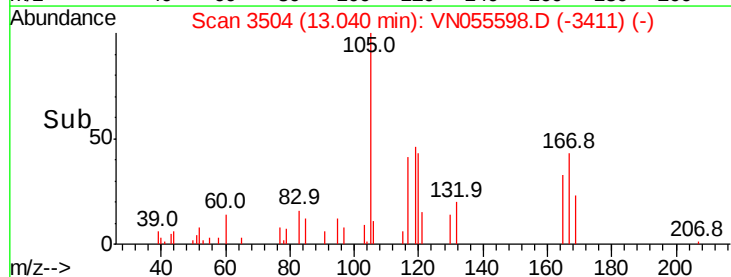
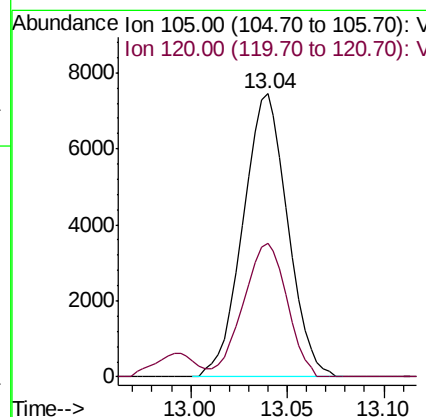
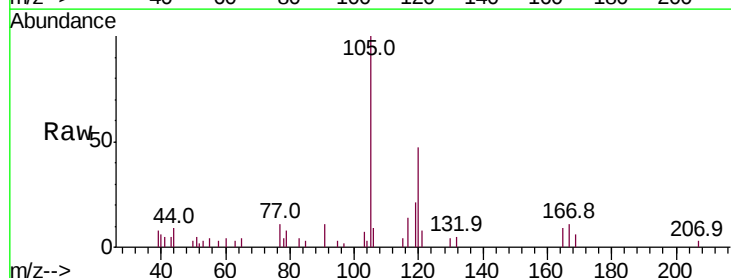
Manual Integrations
APPROVED

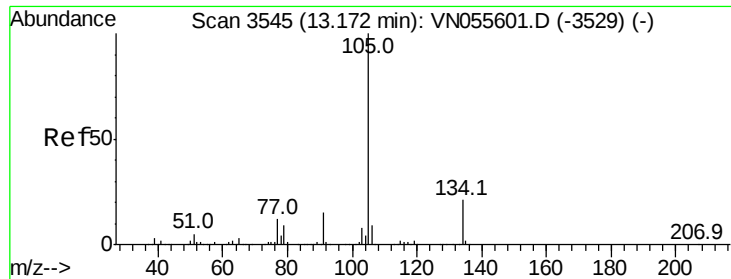
MMDadoda
5/20/2019 9:09:45 AM



#84
1,2,4-Trimethylbenzene
Concen: 1.441 ug/l
RT: 13.04 min Scan# 3504
Delta R.T. -0.00 min
Lab File: VN055598.D
Acq: 17 May 2019 9:29

Tgt Ion	Ratio	Resp	Lower	Upper
105	100	11966		
120	46.4	23.1	69.2	





#85

sec-Butylbenzene

Concen: 1.377 ug/l

RT: 13.17 min Scan# 3545

Delta R.T. -0.00 min

Lab File: VN055598.D

Acq: 17 May 2019 9:29

Instrument :

MSVOA_N

ClientSampleId :

VSTDIC001

Tot Ion:105 Resp: 13704

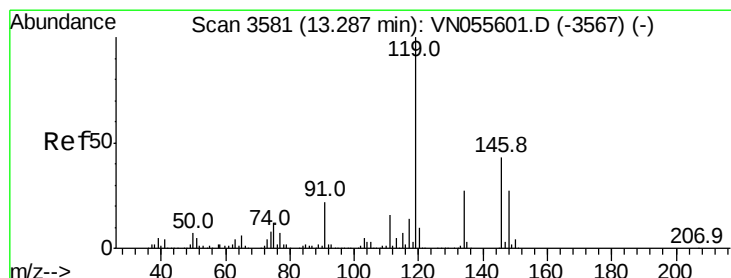
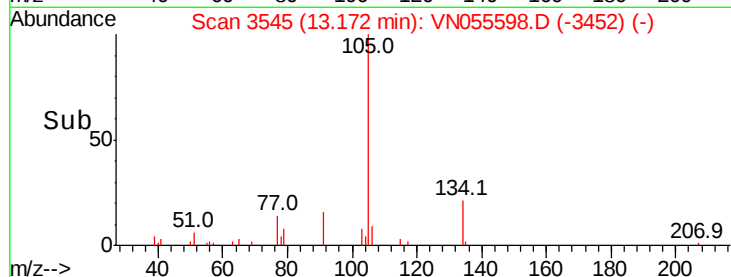
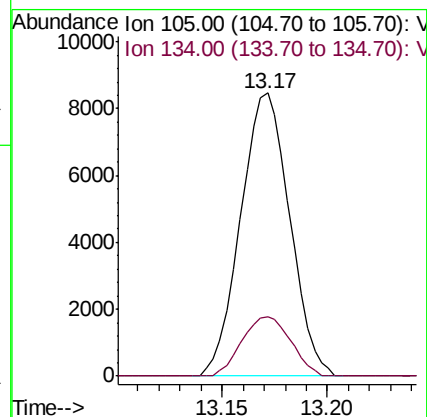
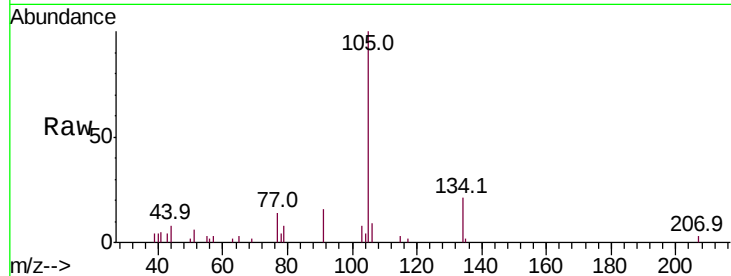
Ion Ratio Lower Upper

105 100

134 20.8 10.3 30.9

Manual Integrations
APPROVED

MMDadoda
5/20/2019 9:09:45 AM



#86

p-Isopropyltoluene

Concen: 1.453 ug/l

RT: 13.29 min Scan# 3581

Delta R.T. -0.00 min

Lab File: VN055598.D

Acq: 17 May 2019 9:29

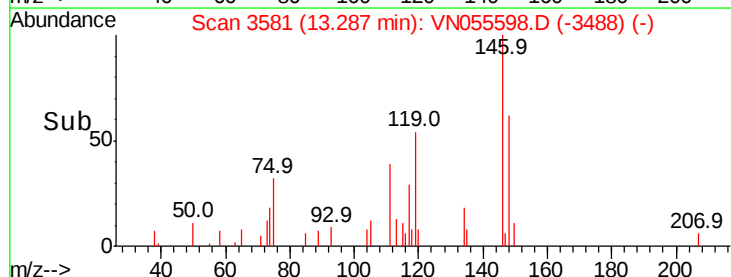
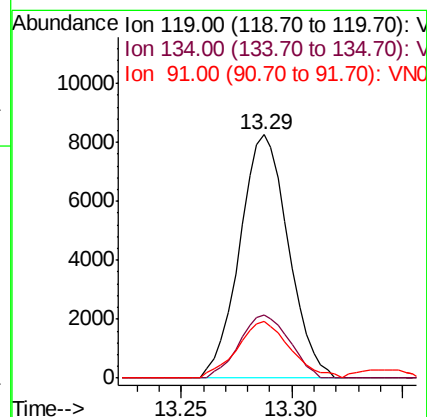
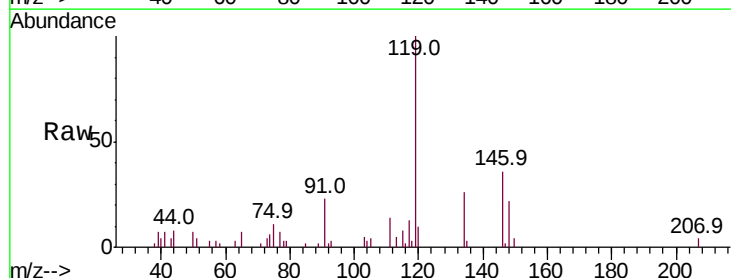
Tgt Ion:119 Resp: 12634

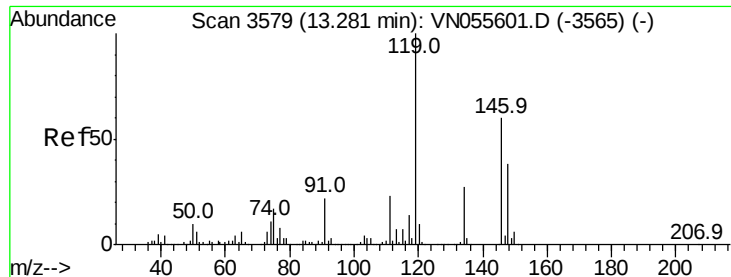
Ion Ratio Lower Upper

119 100

134 26.4 13.4 40.2

91 25.2 11.0 33.0





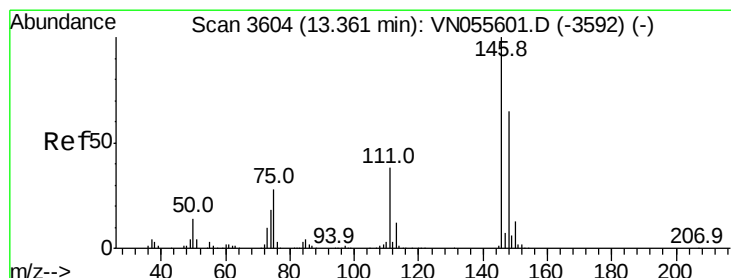
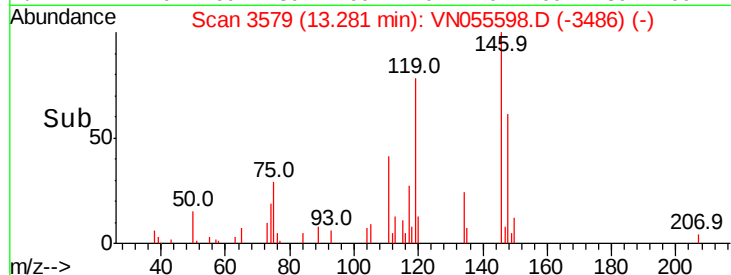
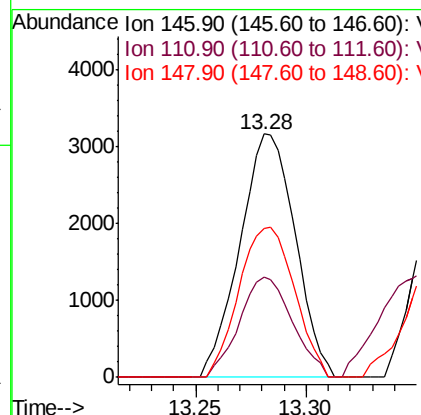
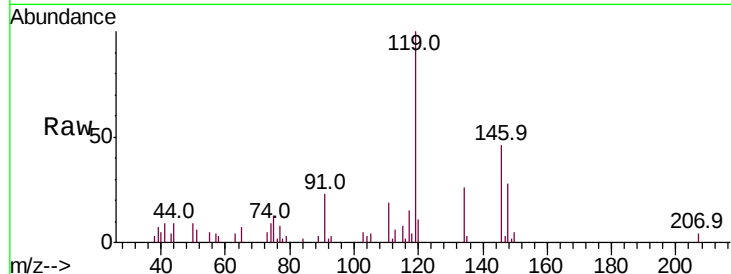
#87
 1,3-Dichlorobenzene
 Concen: 1.180 ug/l
 RT: 13.28 min Scan# 3579
 Delta R.T. -0.00 min
 Lab File: VN055598.D
 Acq: 17 May 2019 9:29

Instrument :
 MSVOA_N
 ClientSampled :
 VSTDIC001

Tot Ion	Ratio	Lower	Upper
146	100		
111	39.5	18.9	56.9
148	61.8	31.9	95.9

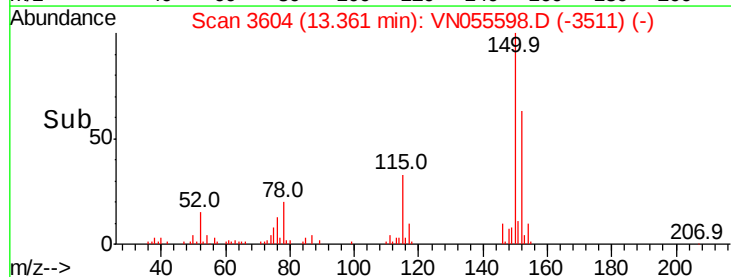
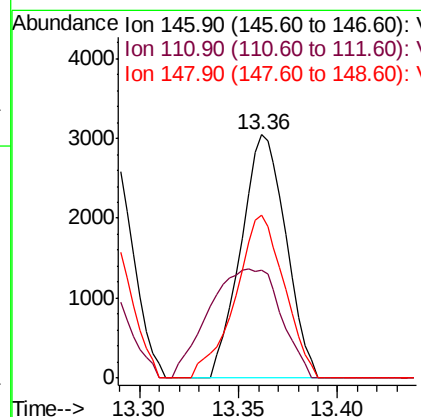
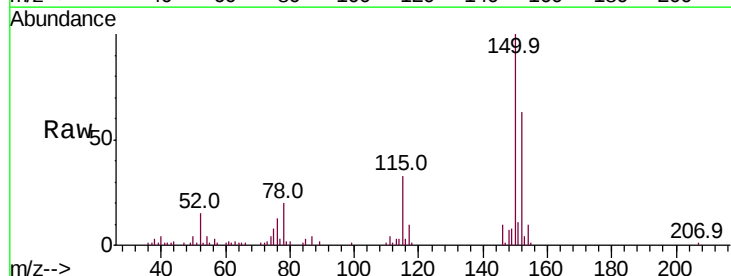
Manual Integrations
 APPROVED

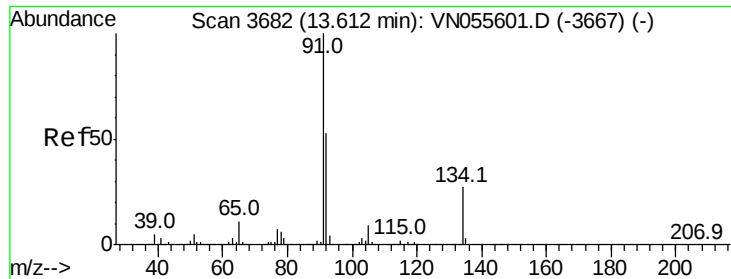
MMDadoda
 5/20/2019 9:09:45 AM



#88
 1,4-Dichlorobenzene
 Concen: 1.042 ug/l m
 RT: 13.36 min Scan# 3604
 Delta R.T. -0.00 min
 Lab File: VN055598.D
 Acq: 17 May 2019 9:29

Tgt Ion	Ratio	Lower	Upper
146	100		
111	44.5	18.8	56.4
148	69.6	32.4	97.0





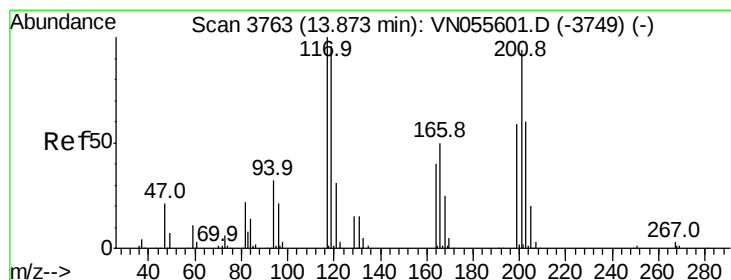
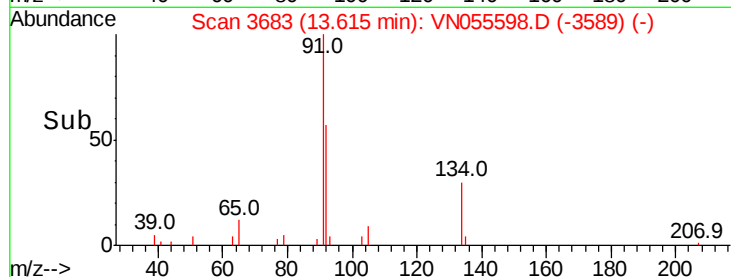
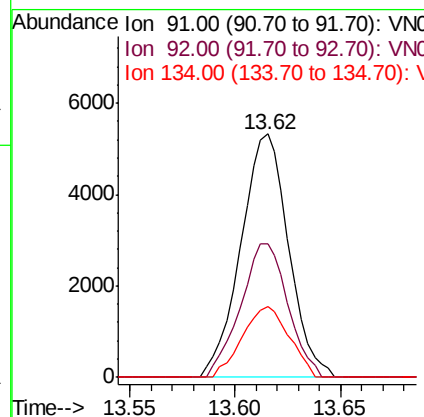
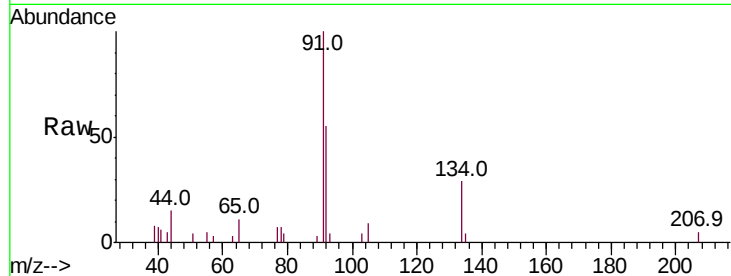
#89
n-Butylbenzene
Concen: 1.173 ug/l
RT: 13.62 min Scan# 3683
Delta R.T. 0.00 min
Lab File: VN055598.D
Acq: 17 May 2019 9:29

Instrument :
MSVOA_N
ClientSampleId :
VSTDIC001

Tot Ion	Ratio	Lower	Upper
91	100		
92	54.4	26.4	79.0
134	28.4	13.7	41.1

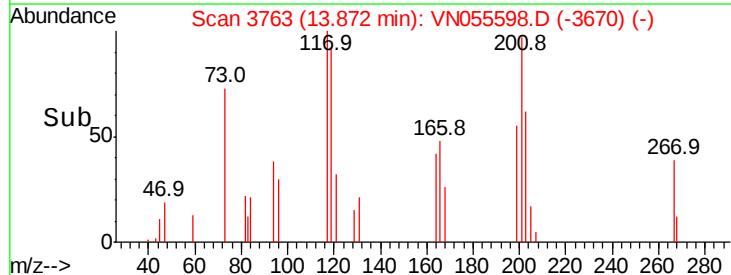
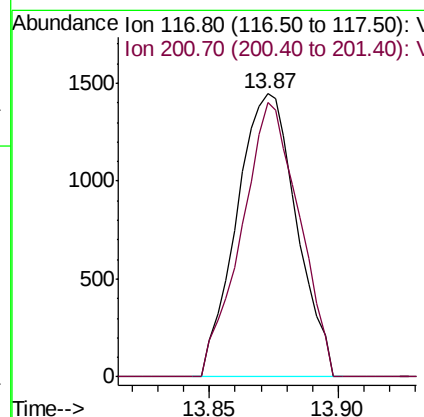
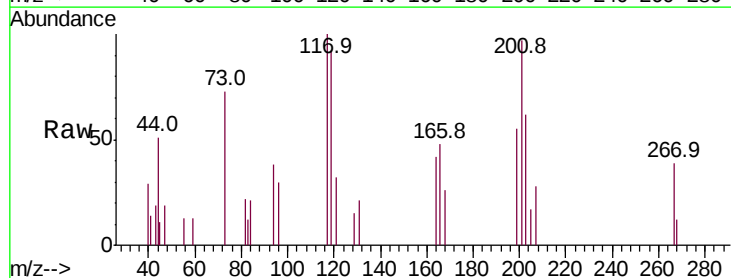
Manual Integrations
APPROVED

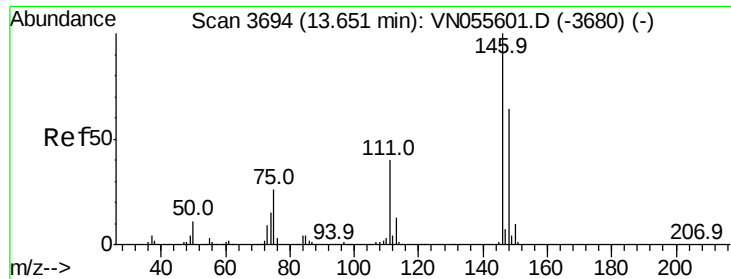
MMDadoda
5/20/2019 9:09:45 AM



#90
Hexachloroethane
Concen: 1.383 ug/l
RT: 13.87 min Scan# 3763
Delta R.T. -0.00 min
Lab File: VN055598.D
Acq: 17 May 2019 9:29

Tgt Ion	Ratio	Lower	Upper
117	100		
201	93.6	47.1	141.3





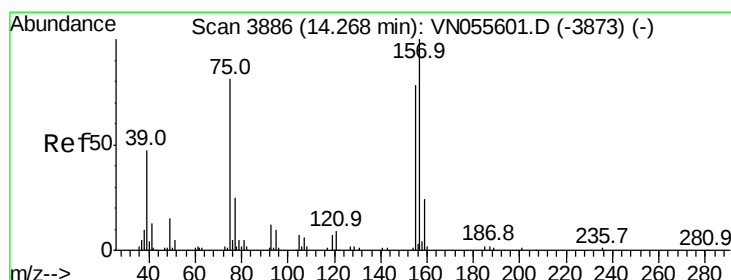
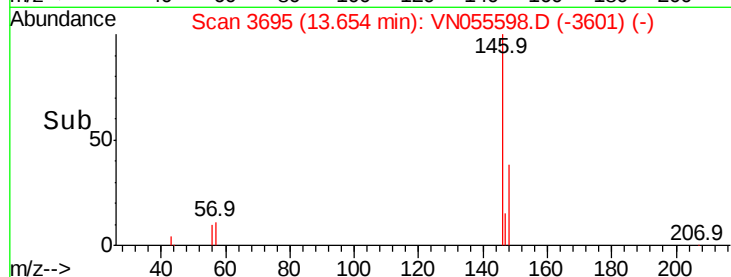
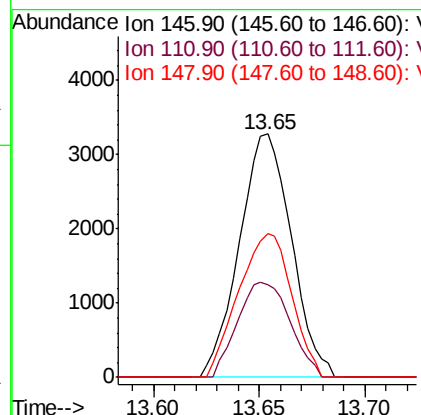
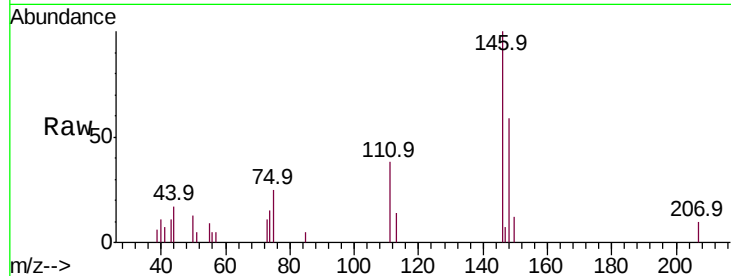
#91
 1,2-Dichlorobenzene
 Concen: 1.229 ug/l
 RT: 13.65 min Scan# 3695
 Delta R.T. 0.00 min
 Lab File: VN055598.D
 Acq: 17 May 2019 9:29

Instrument :
 MSVOA_N
 ClientSampled :
 VSTDIC001

Tot Ion	Ratio	Lower	Upper
146	100		
111	39.4	19.7	59.0
148	60.2	32.1	96.3

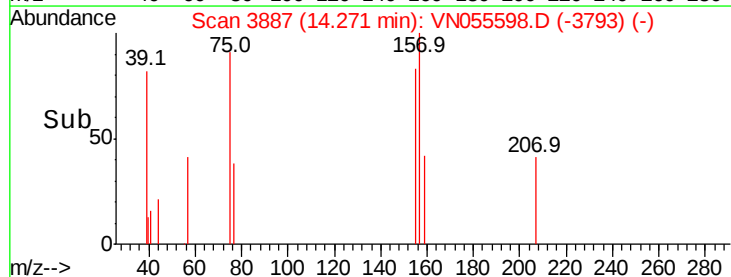
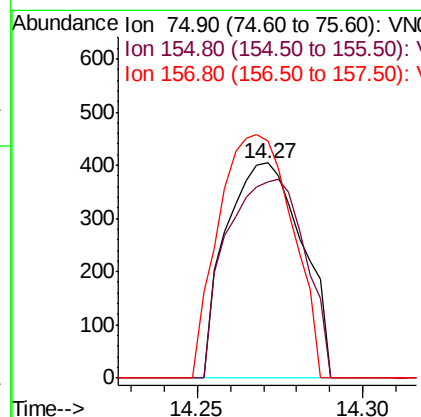
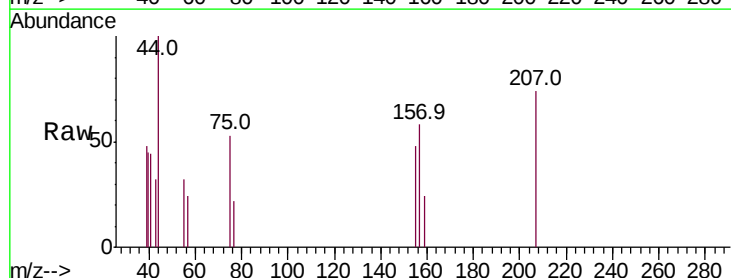
Manual Integrations
 APPROVED

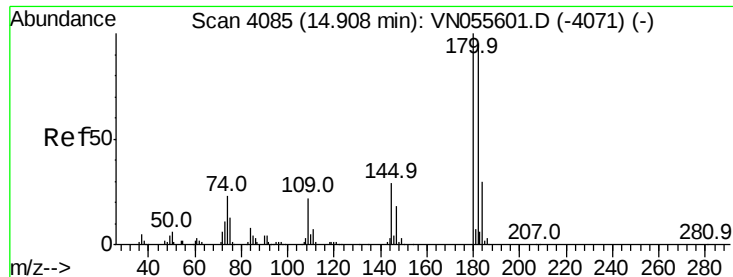
MMDadoda
 5/20/2019 9:09:45 AM



#92
 1,2-Dibromo-3-Chloropropane
 Concen: 1.640 ug/l
 RT: 14.27 min Scan# 3887
 Delta R.T. 0.00 min
 Lab File: VN055598.D
 Acq: 17 May 2019 9:29

Tgt Ion	Ratio	Lower	Upper
75	100		
155	94.8	48.4	145.0
157	108.6	62.3	186.8





#93

1,2,4-Trichlorobenzene

Concen: 0.804 ug/l

RT: 14.91 min Scan# 4086

Delta R.T. 0.00 min

Lab File: VN055598.D

Acq: 17 May 2019 9:29

Instrument :

MSVOA_N

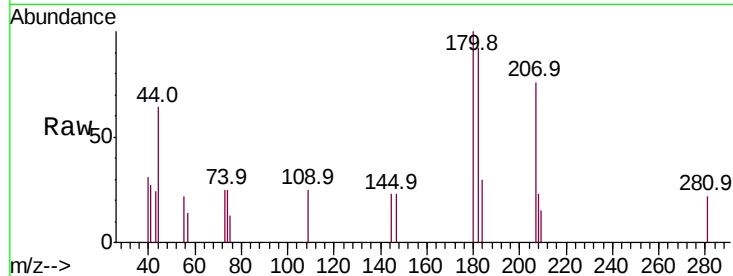
ClientSampleId :

VSTDIC001

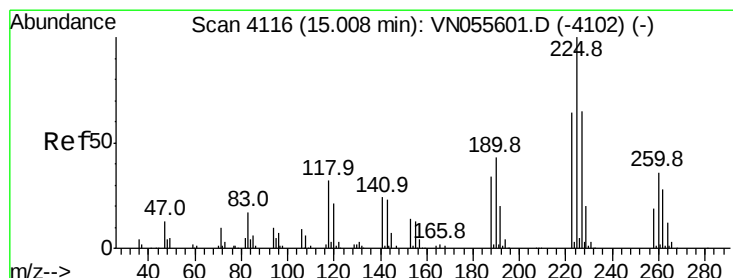
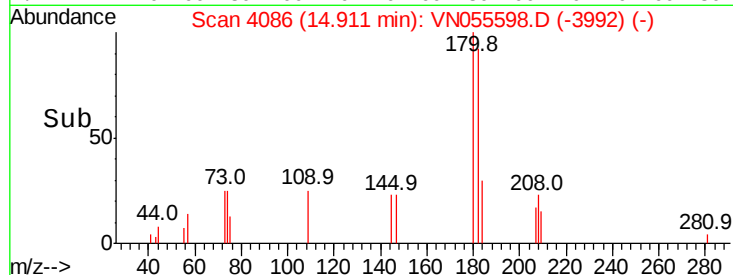
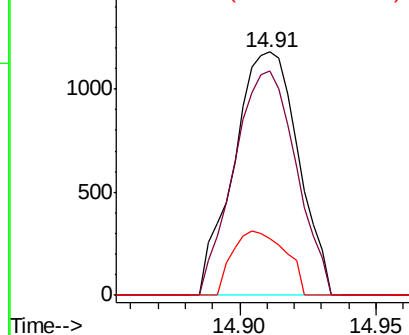
Tot Ion:	180	Resp:	1926
Ion Ratio	Lower	Upper	
180	100		
182	89.1	47.9	143.6
145	21.9	14.3	42.9

Manual Integrations
APPROVED

MMDadoda
5/20/2019 9:09:45 AM



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



#94

Hexachlorobutadiene

Concen: 1.081 ug/l

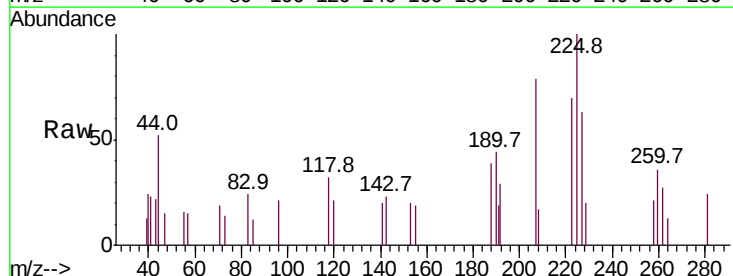
RT: 15.01 min Scan# 4117

Delta R.T. 0.00 min

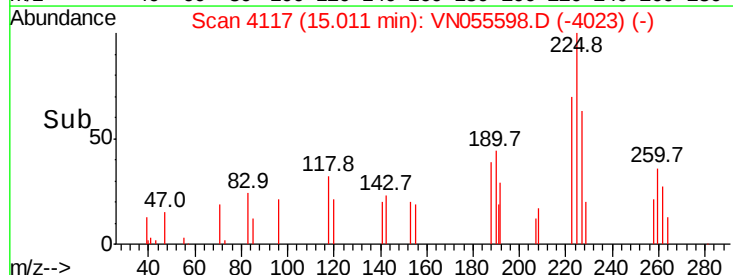
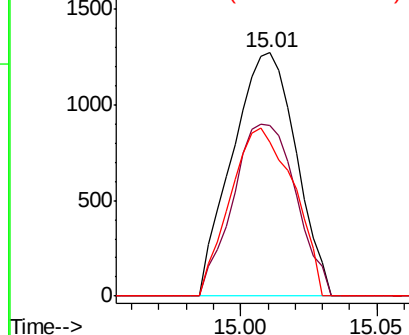
Lab File: VN055598.D

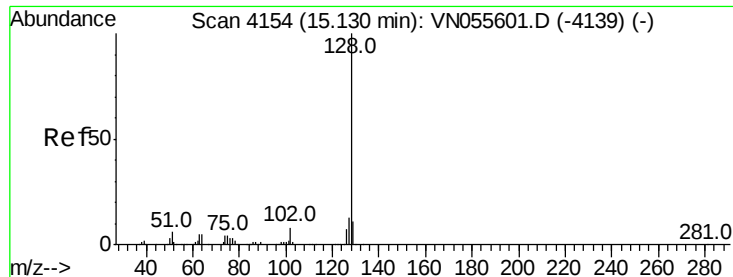
Acq: 17 May 2019 9:29

Tgt Ion:	225	Resp:	2058
Ion Ratio	Lower	Upper	
225	100		
223	70.3	31.6	94.7
227	69.0	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: 1.108 ug/l

RT: 15.13 min Scan# 4155

Delta R.T. 0.00 min

Lab File: VN055598.D

Acq: 17 May 2019 9:29

Instrument :

MSVOA_N

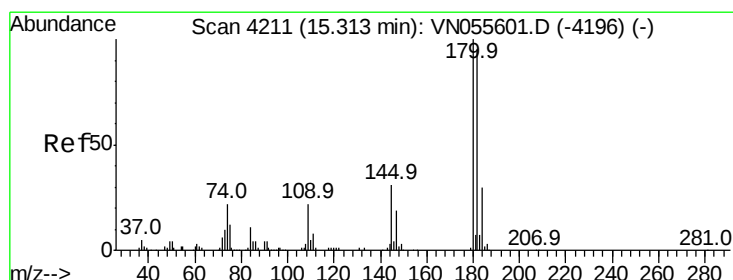
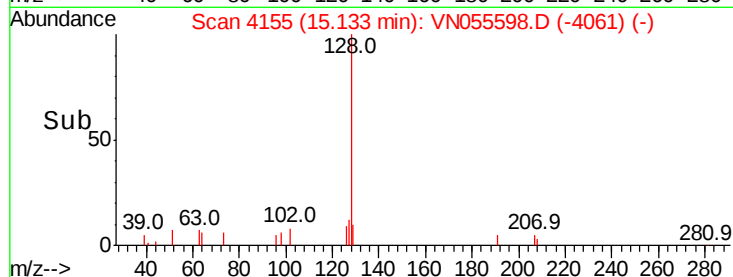
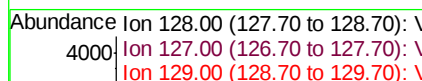
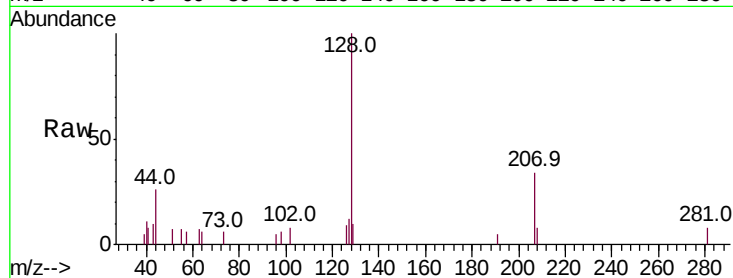
ClientSampleId :

VSTDIC001

Tot Ion:	128	Resp:	5336
Ion Ratio	Lower	Upper	
128	100		
127	10.0	10.2	15.4#
129	8.2	8.6	12.8#

Manual Integrations
APPROVED

MMDadoda
5/20/2019 9:09:45 AM



#96

1,2,3-Trichlorobenzene

Concen: 1.022 ug/l

RT: 15.31 min Scan# 4211

Delta R.T. -0.00 min

Lab File: VN055598.D

Acq: 17 May 2019 9:29

Tgt Ion:	180	Resp:	2387
Ion Ratio	Lower	Upper	
180	100		
182	94.9	47.9	143.6
145	29.4	15.4	46.1

