

Data Path : Z:\VOASRV\HPCHEM1\MSVOA N\DATA\VN032319\
 Data File : VN054601.D
 Acq On : 23 Mar 2019 13:42
 Operator : JC/SP
 Sample : VN0323WBS01
 Misc : 5.00mL/MSVOA N/WATER
 ALS Vial : 7 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 VN0323WBS01

Manual Integrations
 APPROVED

MMDadoda
 3/25/2019 10:23:33 AM

Quant Time: Mar 25 04:04:30 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_N\METHODS\82N032019W.M
 Quant Title : SW846 8260
 QLast Update : Fri Mar 22 02:09:07 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	7.66	168	448840	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	8.59	114	744500	50.00	ug/l	0.00
63) Chlorobenzene-d5	11.41	117	638627	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.34	152	267401	50.00	ug/l	0.00

System Monitoring Compounds

33) 1,2-Dichloroethane-d4	8.03	65	313028	56.07	ug/l	0.00
Spiked Amount	50.000		Recovery	=	112.14%	
35) Dibromofluoromethane	7.59	113	247172	51.53	ug/l	0.00
Spiked Amount	50.000		Recovery	=	103.06%	
50) Toluene-d8	10.09	98	899665	49.89	ug/l	0.00
Spiked Amount	50.000		Recovery	=	99.78%	
62) 4-Bromofluorobenzene	12.40	95	301714	49.17	ug/l	0.00
Spiked Amount	50.000		Recovery	=	98.34%	

Target Compounds

						Qvalue
2) Dichlorodifluoromethane	1.85	85	92159	21.478	ug/l	97
3) Chloromethane	2.06	50	126014	21.585	ug/l	100
4) Vinyl Chloride	2.19	62	122632	20.922	ug/l	98
5) Bromomethane	2.57	94	71354	18.827	ug/l	97
6) Chloroethane	2.71	64	66533	18.925	ug/l	95
7) Trichlorofluoromethane	3.02	101	147759	20.758	ug/l	99
8) Diethyl Ether	3.41	74	52305	19.106	ug/l	75
9) 1,1,2-Trichlorotrifluoroet	3.75	101	77265	18.470	ug/l	93
10) Methyl Iodide	3.94	142	102447	16.648	ug/l	91
11) Tert butyl alcohol	4.82	59	41617	123.128	ug/l	95
12) 1,1-Dichloroethene	3.73	96	77741	17.957	ug/l #	81
13) Acrolein	3.61	56	45825	98.244	ug/l	95
14) Allyl chloride	4.32	41	177856	21.817	ug/l #	92
15) Acrylonitrile	4.99	53	201131	119.493	ug/l	98
16) Acetone	3.82	43	169788	101.155	ug/l #	81
17) Carbon Disulfide	4.04	76	206199	17.776	ug/l	98
18) Methyl Acetate	4.33	43	93288	24.935	ug/l #	88
19) Methyl tert-butyl Ether	5.05	73	283992	22.477	ug/l	97
20) Methylene Chloride	4.54	84	104618	21.144	ug/l #	83
21) trans-1,2-Dichloroethene	5.04	96	95404	21.582	ug/l #	78
22) Diisopropyl ether	5.96	45	378112	23.514	ug/l #	94
23) Vinyl Acetate	5.90	43	1329674	117.081	ug/l #	93
24) 1,1-Dichloroethane	5.85	63	194533	22.469	ug/l	98
25) 2-Butanone	6.85	43	261473	121.608	ug/l #	86
26) 2,2-Dichloropropane	6.82	77	130120	21.083	ug/l	99
27) cis-1,2-Dichloroethene	6.83	96	109904	20.844	ug/l	85
28) Bromochloromethane	7.20	49	98442	23.099	ug/l #	70
29) Tetrahydrofuran	7.22	42	174273	124.900	ug/l #	85
30) Chloroform	7.37	83	187759	22.221	ug/l	99
31) Cyclohexane	7.65	56	187039	21.486	ug/l	90
32) 1,1,1-Trichloroethane	7.57	97	153381	22.003	ug/l	95
36) 1,1-Dichloropropene	7.79	75	139838	20.088	ug/l	96
37) Ethyl Acetate	6.94	43	116267	23.484	ug/l #	94
38) Carbon Tetrachloride	7.77	117	130968	19.361	ug/l	98

Data Path : Z:\VOASRV\HPCHEM1\MSVOA N\DATA\VN032319\
 Data File : VN054601.D
 Acq On : 23 Mar 2019 13:42
 Operator : JC/SP
 Sample : VN0323WBS01
 Misc : 5.00mL/MSVOA N/WATER
 ALS Vial : 7 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleID :
 VN0323WBS01

Manual Integrations
 APPROVED

MMDadoda
 3/25/2019 10:23:33 AM

Quant Time: Mar 25 04:04:30 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_N\METHODS\82N032019W.M
 Quant Title : SW846 8260
 QLast Update : Fri Mar 22 02:09:07 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
39) Methylcyclohexane	9.08	83	149557	18.782	ug/l	88
40) Benzene	8.04	78	414793	20.838	ug/l	100
41) Methacrylonitrile	7.18	41	66040	21.872	ug/l #	90
42) 1,2-Dichloroethane	8.12	62	156531	21.593	ug/l	97
43) Isopropyl Acetate	8.17	43	191582	22.912	ug/l #	94
44) Trichloroethene	8.83	130	108573	19.619	ug/l	90
45) 1,2-Dichloropropane	9.12	63	117801	22.039	ug/l	100
46) Dibromomethane	9.21	93	66879	20.973	ug/l	92
47) Bromodichloromethane	9.40	83	136381	20.608	ug/l	98
48) Methyl methacrylate	9.20	41	96557	21.276	ug/l	88
49) 1,4-Dioxane	9.21	88	22689	447.198	ug/l #	87
51) 4-Methyl-2-Pentanone	9.99	43	538959	116.306	ug/l	94
52) Toluene	10.16	92	246155	20.106	ug/l	99
53) t-1,3-Dichloropropene	10.38	75	121903	18.915	ug/l	99
54) cis-1,3-Dichloropropene	9.84	75	155750	20.526	ug/l #	88
55) 1,1,2-Trichloroethane	10.56	97	94369	21.443	ug/l	96
56) Ethyl methacrylate	10.43	69	124884	21.142	ug/l #	83
57) 1,3-Dichloropropane	10.71	76	167506	21.896	ug/l	99
58) 2-Chloroethyl Vinyl ether	9.70	63	236218	97.116	ug/l	90
59) 2-Hexanone	10.75	43	341799	112.922	ug/l	91
60) Dibromochloromethane	10.90	129	93039	19.868	ug/l	99
61) 1,2-Dibromoethane	11.00	107	91860	21.113	ug/l	98
64) Tetrachloroethene	10.63	164	106220	20.052	ug/l	96
65) Chlorobenzene	11.43	112	263741	20.305	ug/l	99
66) 1,1,1,2-Tetrachloroethane	11.51	131	96295	20.655	ug/l	99
67) Ethyl Benzene	11.51	91	467857	20.391	ug/l	97
68) m/p-Xylenes	11.62	106	345588	39.766	ug/l	96
69) o-Xylene	11.95	106	172642	20.341	ug/l	98
70) Styrene	11.96	104	277751	20.152	ug/l	96
71) Bromoform	12.13	173	54444	18.407	ug/l #	96
73) Isopropylbenzene	12.25	105	453687	21.055	ug/l	97
74) N-amyl acetate	12.07	43	144306	23.291	ug/l	93
75) 1,1,2,2-Tetrachloroethane	12.50	83	112922	22.957	ug/l	99
76) 1,2,3-Trichloropropane	12.55	75	98489m	23.211	ug/l	
77) Bromobenzene	12.53	156	111109	20.791	ug/l	86
78) n-propylbenzene	12.59	91	484148	20.721	ug/l	97
79) 2-Chlorotoluene	12.67	91	305586	20.973	ug/l	94
80) 1,3,5-Trimethylbenzene	12.73	105	367051	20.784	ug/l	97
81) trans-1,4-Dichloro-2-buten	12.30	75	21058	19.195	ug/l #	73
82) 4-Chlorotoluene	12.77	91	292746	20.728	ug/l	95
83) tert-Butylbenzene	12.99	119	316083	20.562	ug/l	94
84) 1,2,4-Trimethylbenzene	13.04	105	357934	20.656	ug/l	97
85) sec-Butylbenzene	13.17	105	389665	20.334	ug/l	97
86) p-Isopropyltoluene	13.29	119	344059	20.069	ug/l	98
87) 1,3-Dichlorobenzene	13.28	146	177590	20.053	ug/l	98
88) 1,4-Dichlorobenzene	13.36	146	172817	20.056	ug/l	97
89) n-Butylbenzene	13.61	91	259192	19.335	ug/l	98
90) Hexachloroethane	13.87	117	49900	18.751	ug/l	93
91) 1,2-Dichlorobenzene	13.65	146	179022	20.870	ug/l	98
92) 1,2-Dibromo-3-Chloropropan	14.27	75	16355	22.669	ug/l	77

Data Path : Z:\VOASRV\HPCHEM1\MSVOA N\DATA\VN032319\
Data File : VN054601.D
Acq On : 23 Mar 2019 13:42
Operator : JC/SP
Sample : VN0323WBS01
Misc : 5.00mL/MSVOA N/WATER
ALS Vial : 7 Sample Multiplier: 1

Instrument :
MSVOA_N
ClientSampleId :
VN0323WBS01

Manual Integrations
APPROVED

MMDadoda
3/25/2019 10:23:33 AM

Quant Time: Mar 25 04:04:30 2019
Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_N\METHODS\82N032019W.M
Quant Title : SW846 8260
QLast Update : Fri Mar 22 02:09:07 2019
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
93) 1,2,4-Trichlorobenzene	14.91	180	79021	18.479	ug/l	100
94) Hexachlorobutadiene	15.01	225	49025	18.862	ug/l	98
95) Naphthalene	15.13	128	187107	19.617	ug/l	99
96) 1,2,3-Trichlorobenzene	15.31	180	82597	19.407	ug/l	98

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



#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 7.66 min Scan# 1832

Delta R.T. -0.00 min

Lab File: VN054601.D

Acq: 23 Mar 2019 13:42

Instrument :

MSVOA_N

ClientSampleId :

VN0323WBS01

Tot Ion:168 Resp: 448840

Ion Ratio Lower Upper

168 100

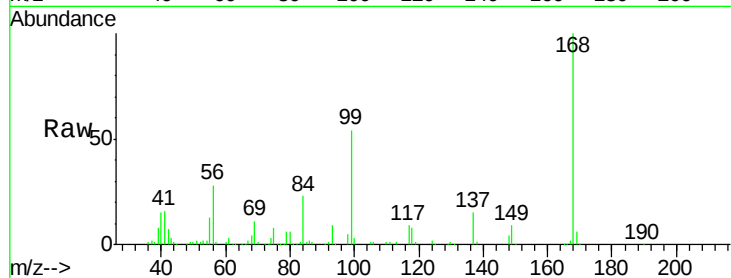
99 53.0 37.1 55.7

Manual Integrations

APPROVED

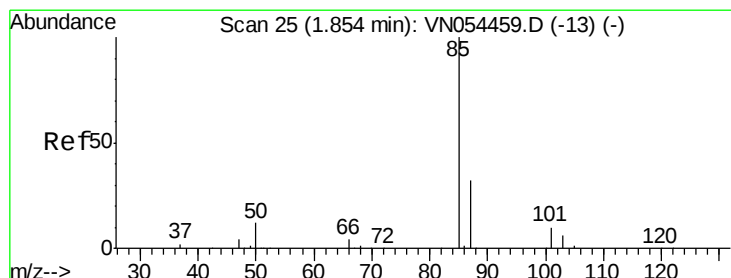
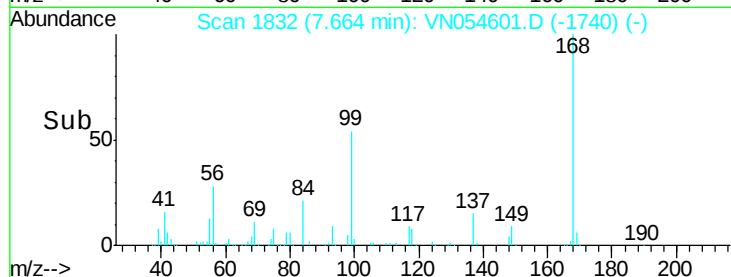
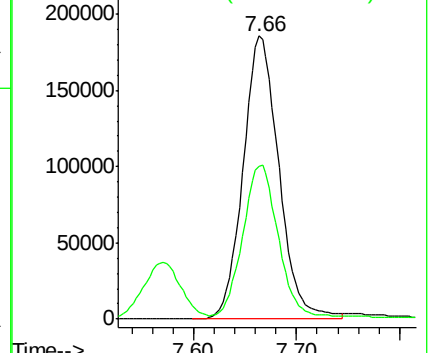
MMDadoda

3/25/2019 10:23:33 AM



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VNC



#2

Dichlorodifluoromethane

Concen: 21.478 ug/l

RT: 1.85 min Scan# 25

Delta R.T. -0.00 min

Lab File: VN054601.D

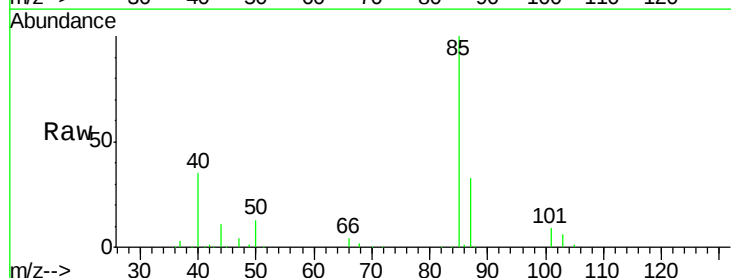
Acq: 23 Mar 2019 13:42

Tgt Ion: 85 Resp: 92159

Ion Ratio Lower Upper

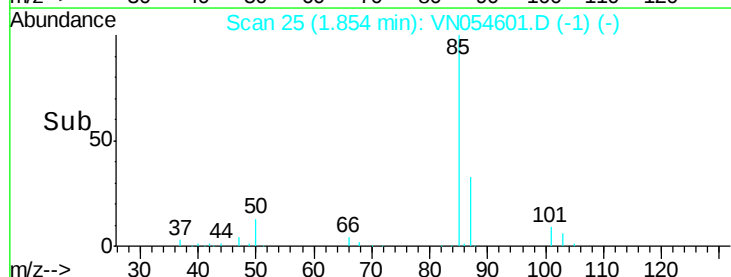
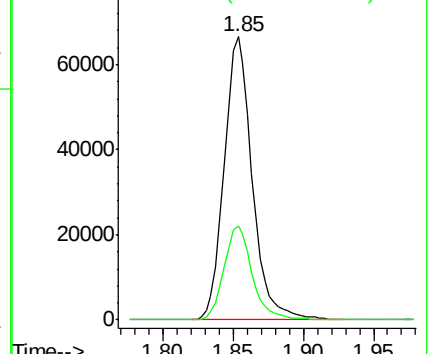
85 100

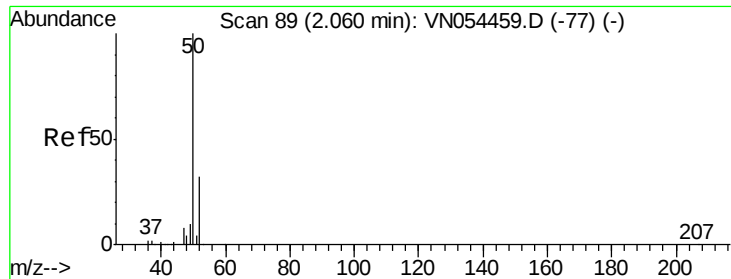
87 33.2 15.9 47.7



Abundance Ion 84.90 (84.60 to 85.60): VNC

Ion 86.90 (86.60 to 87.60): VNC





#3

Chloromethane

Concen: 21.585 ug/l

RT: 2.06 min Scan# 90

Delta R.T. 0.00 min

Lab File: VN054601.D

Acq: 23 Mar 2019 13:42

Instrument :

MSVOA_N

ClientSampleId :

VN0323WBS01

Tot Ion: 50 Resp: 126014

Ion Ratio Lower Upper

50 100

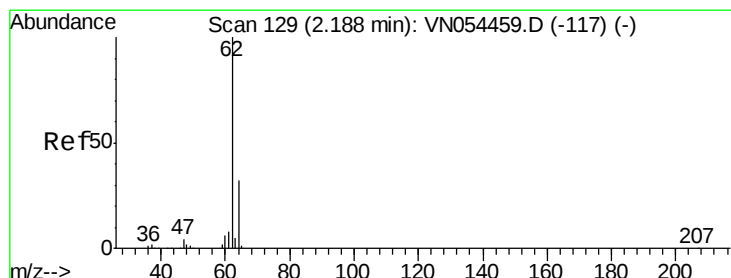
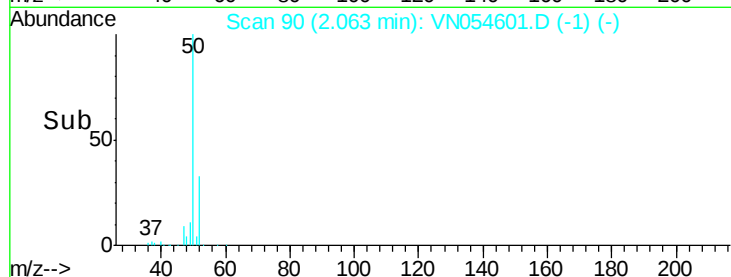
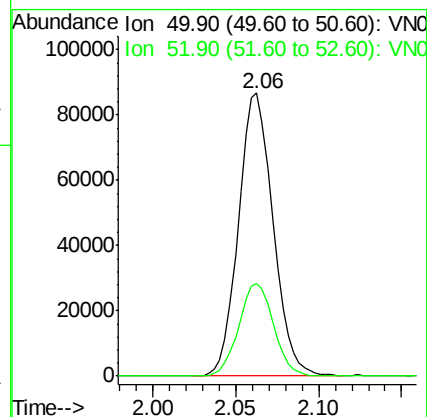
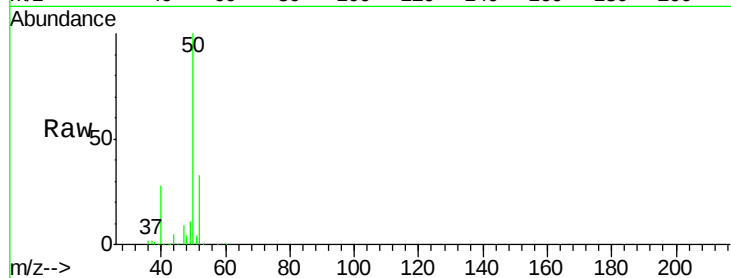
52 32.9 26.4 39.6

Manual Integrations

APPROVED

MMDadoda

3/25/2019 10:23:33 AM



#4

Vinyl Chloride

Concen: 20.922 ug/l

RT: 2.19 min Scan# 130

Delta R.T. 0.00 min

Lab File: VN054601.D

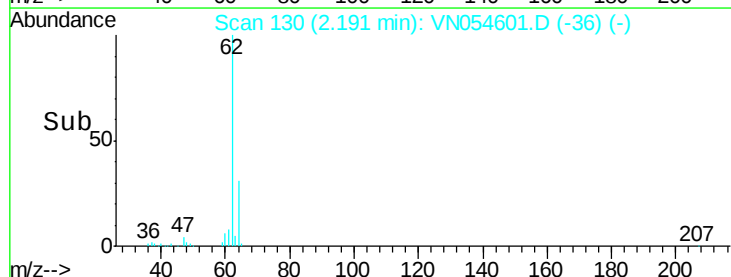
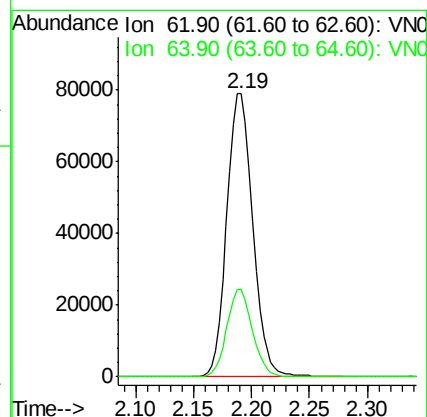
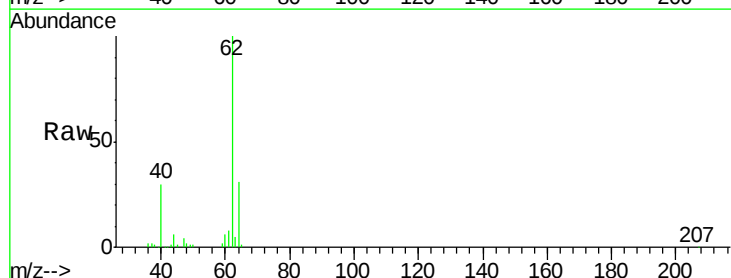
Acq: 23 Mar 2019 13:42

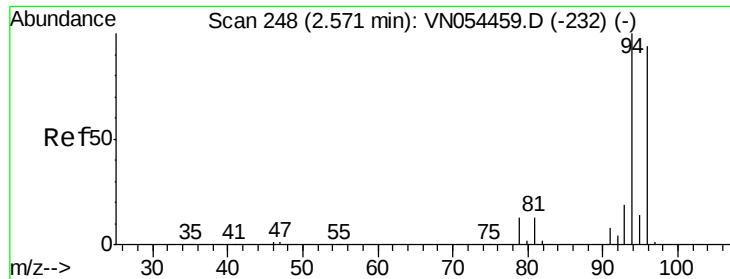
Tgt Ion: 62 Resp: 122632

Ion Ratio Lower Upper

62 100

64 30.8 25.5 38.3





#5

Bromomethane

Concen: 18.827 ug/l

RT: 2.57 min Scan# 249

Delta R.T. 0.00 min

Lab File: VN054601.D

Acq: 23 Mar 2019 13:42

Instrument :

MSVOA_N

ClientSampleId :

VN0323WBS01

Tot Ion: 94 Resp: 71354

Ion Ratio Lower Upper

94 100

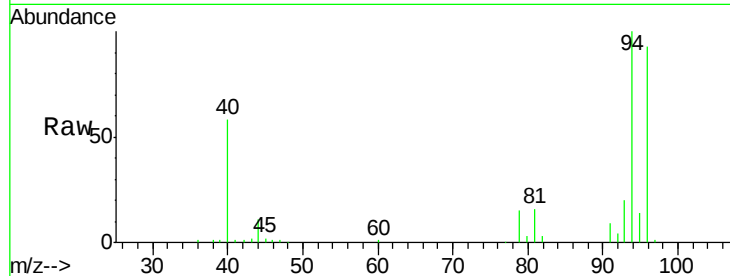
96 93.5 77.0 115.4

Manual Integrations

APPROVED

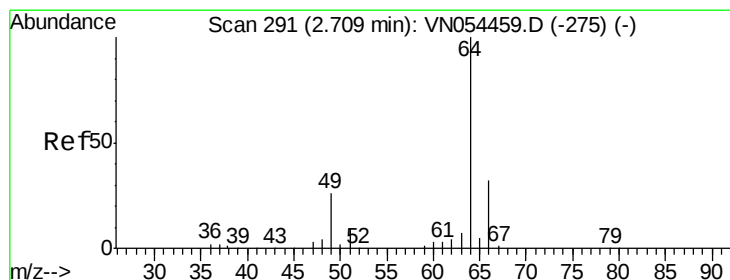
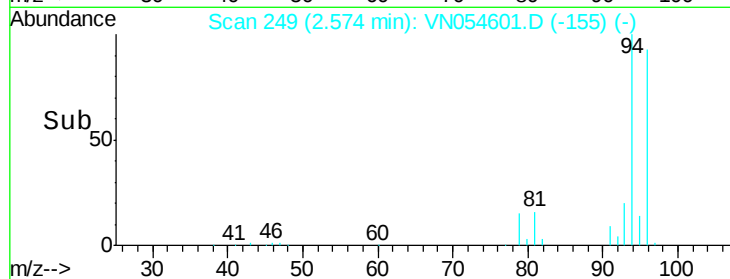
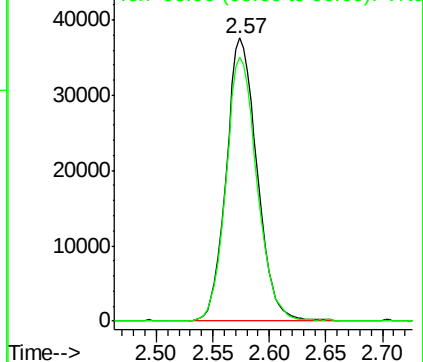
MMDadoda

3/25/2019 10:23:33 AM



Abundance Ion 93.90 (93.60 to 94.60): VN0

Ion 95.90 (95.60 to 96.60): VN0



#6

Chloroethane

Concen: 18.925 ug/l

RT: 2.71 min Scan# 291

Delta R.T. -0.00 min

Lab File: VN054601.D

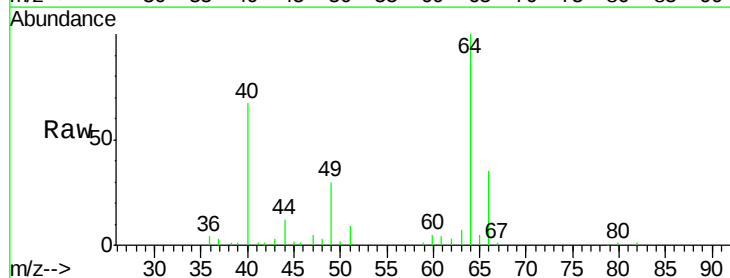
Acq: 23 Mar 2019 13:42

Tgt Ion: 64 Resp: 66533

Ion Ratio Lower Upper

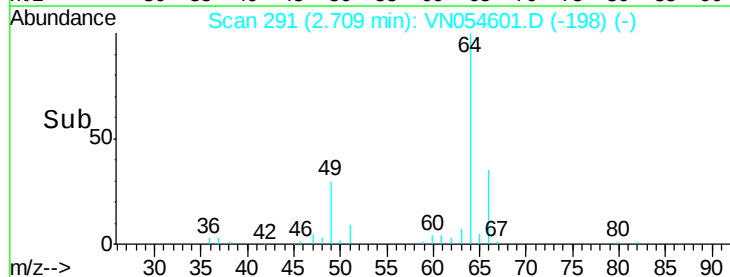
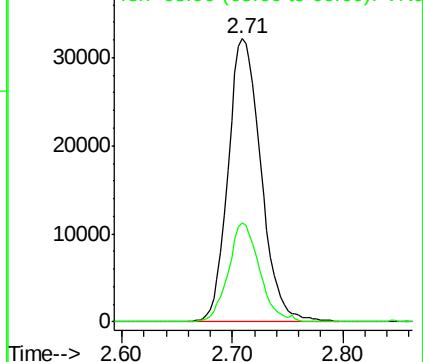
64 100

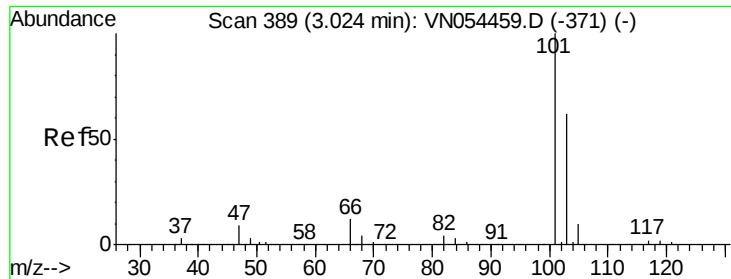
66 35.1 25.7 38.5



Abundance Ion 63.90 (63.60 to 64.60): VN0

Ion 65.90 (65.60 to 66.60): VN0





#7

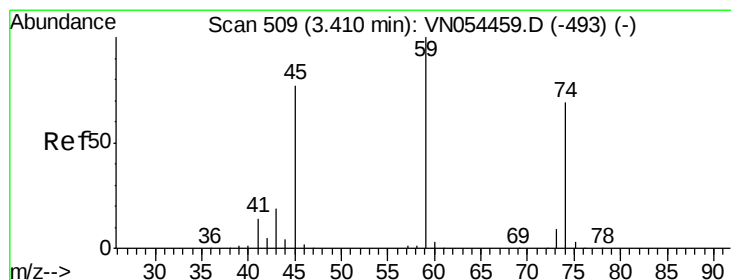
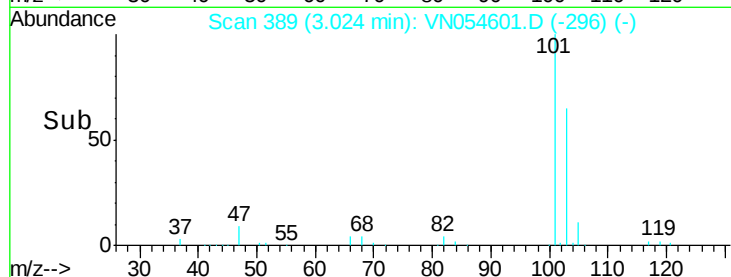
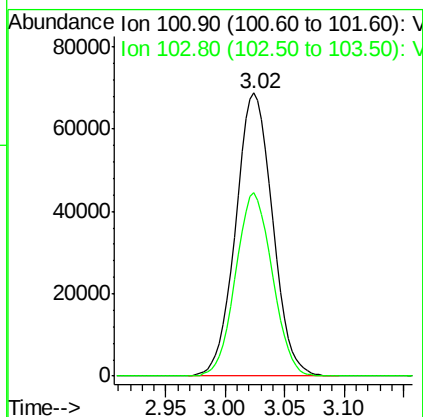
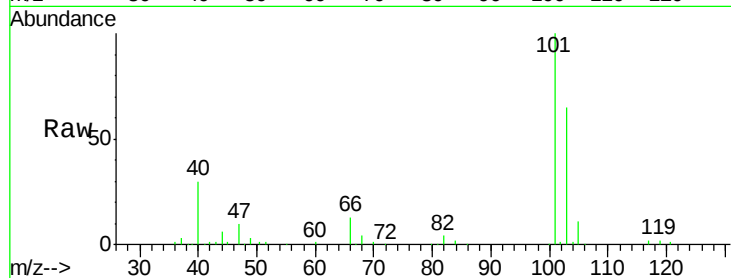
Trichlorofluoromethane
Concen: 20.758 ug/l
RT: 3.02 min Scan# 389
Delta R.T. -0.00 min
Lab File: VN054601.D
Acq: 23 Mar 2019 13:42

Instrument :
MSVOA_N
ClientSampleId :
VN0323WBS01

Tot Ion	Ratio	Lower	Upper
101	100		
103	64.9	51.4	77.2

Manual Integrations
APPROVED

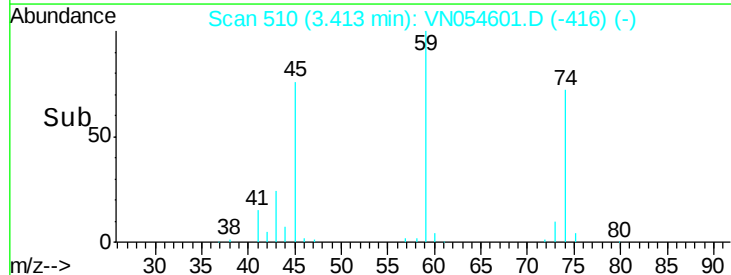
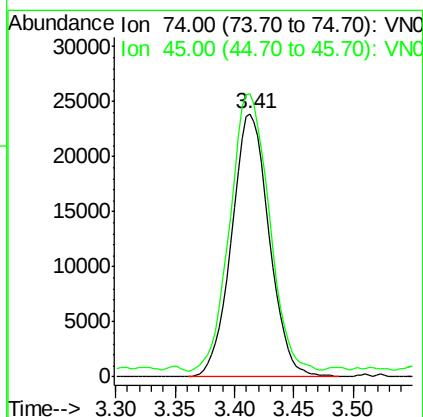
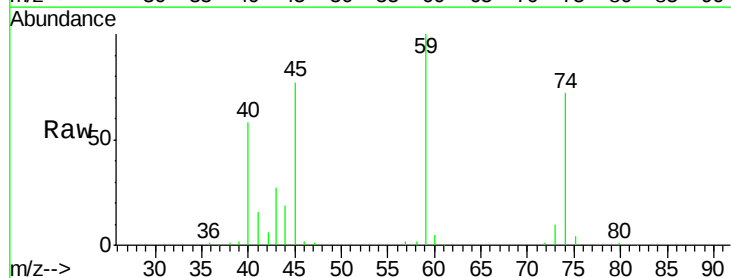
MMDadoda
3/25/2019 10:23:33 AM

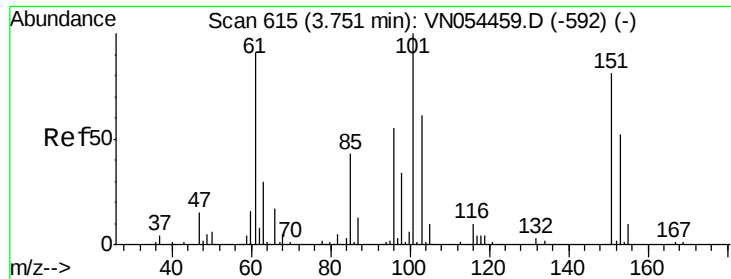


#8

Diethyl Ether
Concen: 19.106 ug/l
RT: 3.41 min Scan# 510
Delta R.T. 0.00 min
Lab File: VN054601.D
Acq: 23 Mar 2019 13:42

Tgt Ion	Ratio	Lower	Upper
74	100		
45	109.7	43.1	129.4





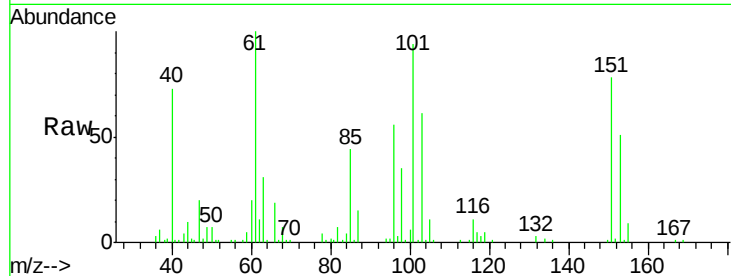
#9
1,1,2-Trichlorotrifluoroethane
Concen: 18.470 ug/l
RT: 3.75 min Scan# 615
Delta R.T. -0.00 min
Lab File: VN054601.D
Acq: 23 Mar 2019 13:42

Instrument :
MSVOA_N
ClientSampleId :
VN0323WBS01

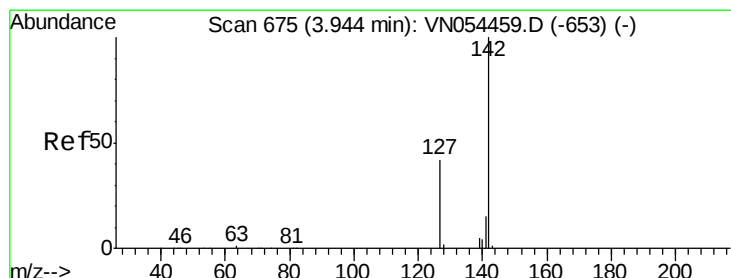
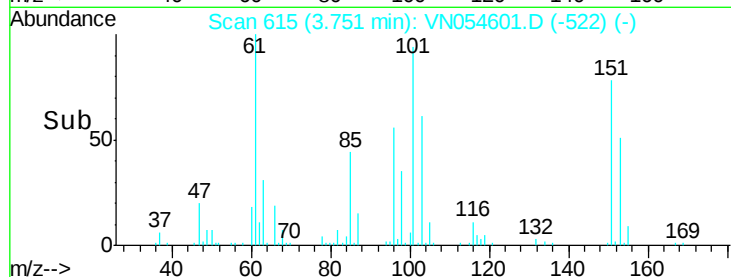
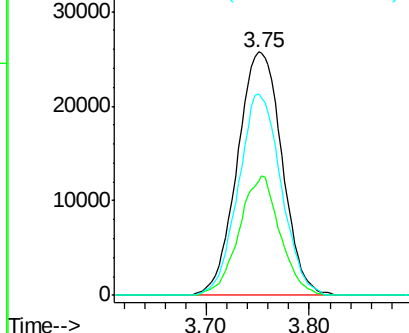
Tot Ion	Ratio	Lower	Upper
101	100		
85	44.9	32.4	48.6
151	79.5	68.2	102.2

Manual Integrations
APPROVED

MMDadoda
3/25/2019 10:23:33 AM

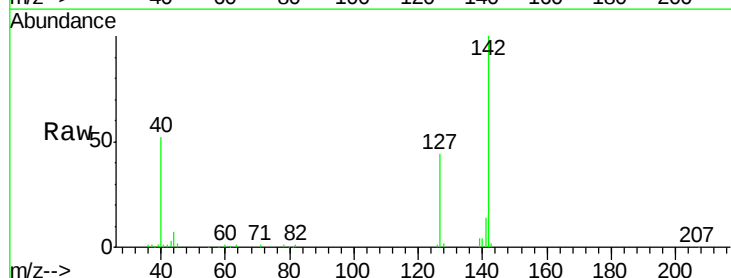


Abundance Ion 100.90 (100.60 to 101.60): V
Ion 84.90 (84.60 to 85.60): V
Ion 150.80 (150.50 to 151.50): V

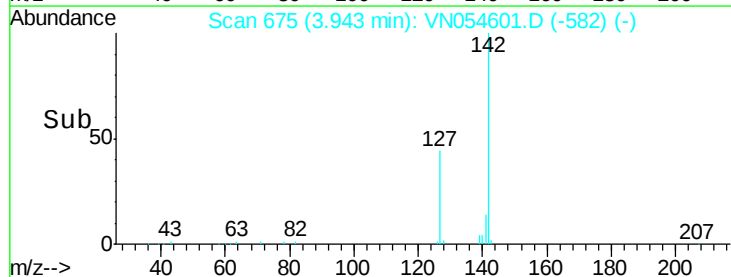
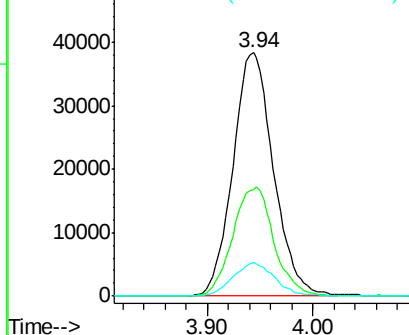


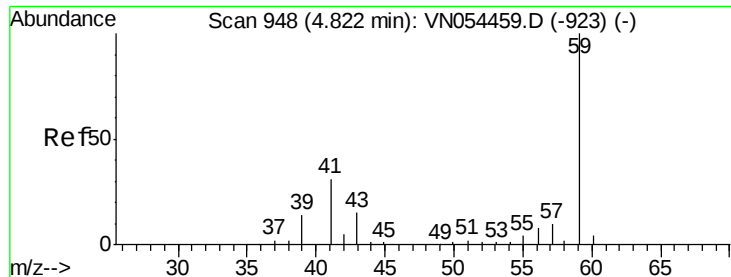
#10
Methyl Iodide
Concen: 16.648 ug/l
RT: 3.94 min Scan# 675
Delta R.T. -0.00 min
Lab File: VN054601.D
Acq: 23 Mar 2019 13:42

Tgt Ion	Ratio	Lower	Upper
142	100		
127	45.4	30.3	45.5
141	14.1	11.2	16.8



Abundance Ion 141.80 (141.50 to 142.50): V
Ion 126.80 (126.50 to 127.50): V
Ion 140.80 (140.50 to 141.50): V





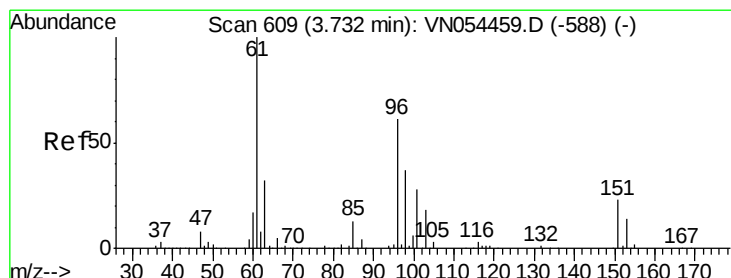
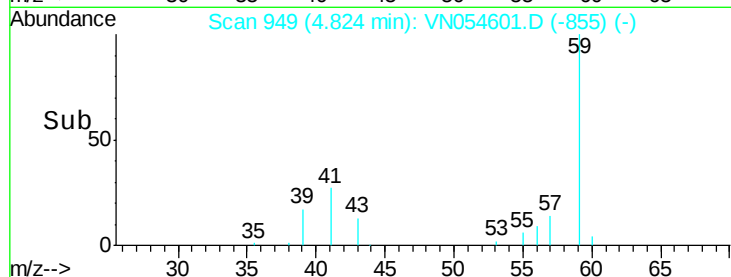
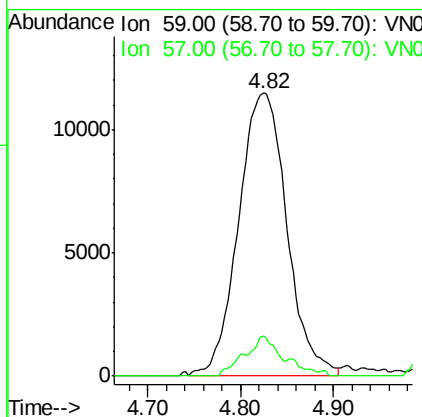
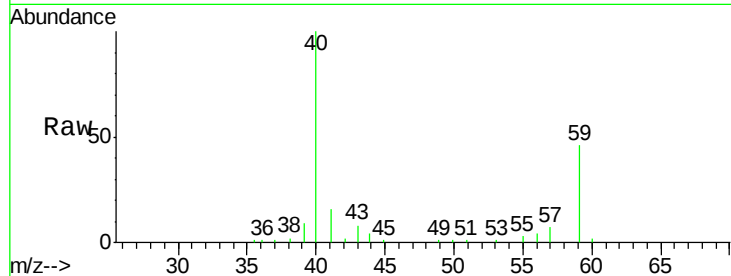
#11
Tert butyl alcohol
Concen: 123.128 ug/l
RT: 4.82 min Scan# 949
Delta R.T. 0.00 min
Lab File: VN054601.D
Acq: 23 Mar 2019 13:42

Instrument :
MSVOA_N
ClientSampleId :
VN0323WBS01

Tot Ion	Ratio	Lower	Upper
59	100		
57	9.2	9.0	13.6

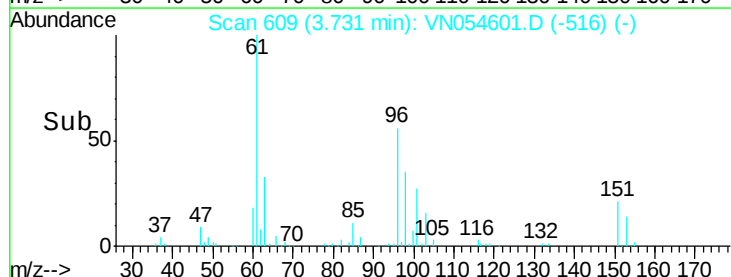
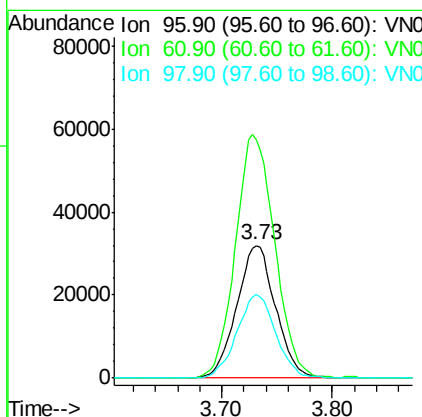
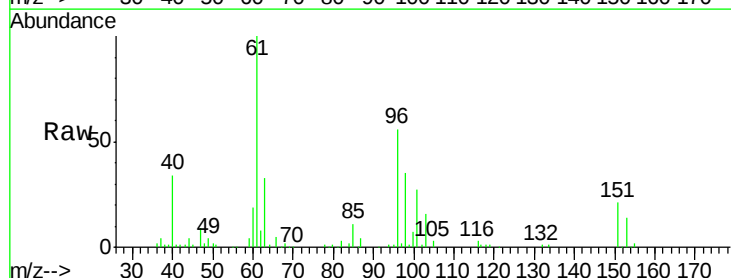
Manual Integrations
APPROVED

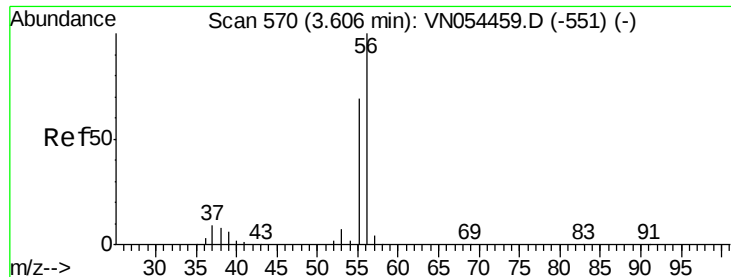
MMDadoda
3/25/2019 10:23:33 AM



#12
1,1-Dichloroethene
Concen: 17.957 ug/l
RT: 3.73 min Scan# 609
Delta R.T. -0.00 min
Lab File: VN054601.D
Acq: 23 Mar 2019 13:42

Tgt Ion	Ratio	Lower	Upper
96	100		
61	179.8	116.5	174.7#
98	62.7	51.0	76.4





#13

Acrolein

Concen: 98.244 ug/l

RT: 3.61 min Scan# 571

Delta R.T. 0.00 min

Lab File: VN054601.D

Acq: 23 Mar 2019 13:42

Instrument :

MSVOA_N

ClientSampled :

VN0323WBS01

Tot Ion: 56 Resp: 45825

Ion Ratio Lower Upper

56 100

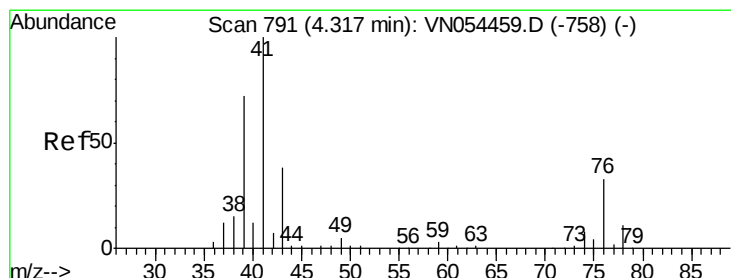
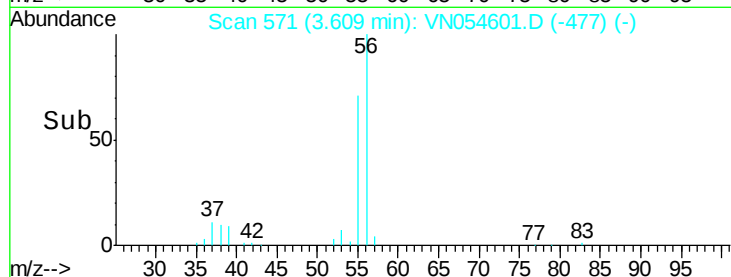
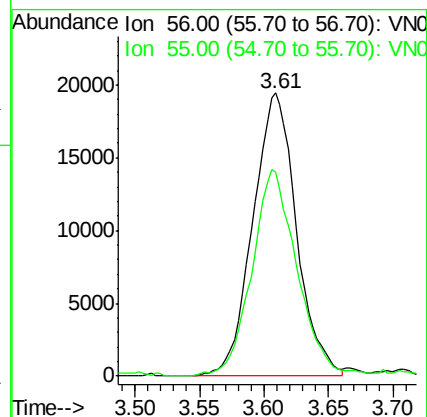
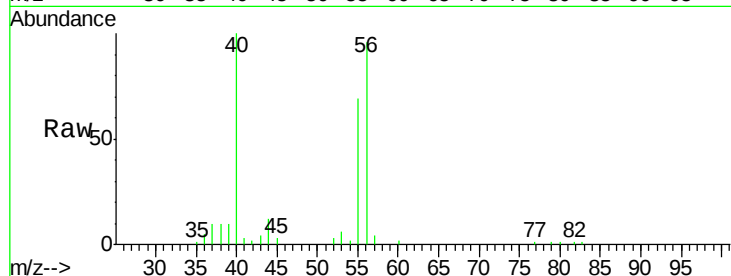
55 74.7 56.7 85.1

Manual Integrations

APPROVED

MMDadoda

3/25/2019 10:23:33 AM



#14

Allyl chloride

Concen: 21.817 ug/l

RT: 4.32 min Scan# 791

Delta R.T. -0.00 min

Lab File: VN054601.D

Acq: 23 Mar 2019 13:42

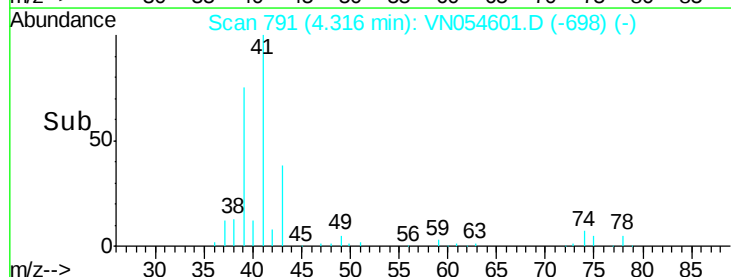
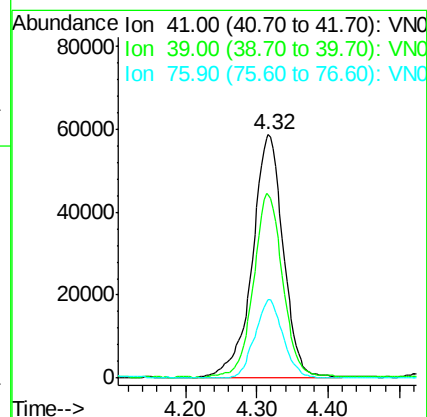
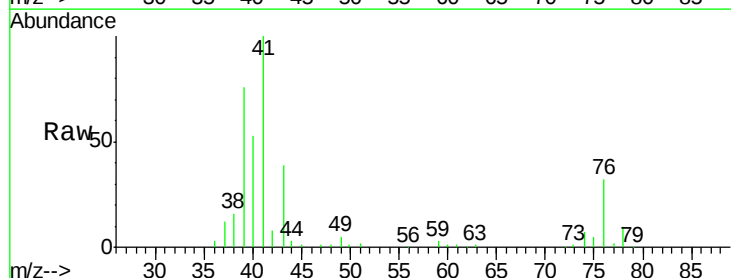
Tgt Ion: 41 Resp: 177856

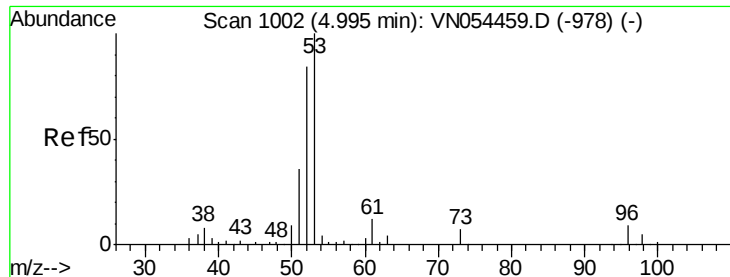
Ion Ratio Lower Upper

41 100

39 70.4 58.2 87.4

76 29.0 31.7 47.5#





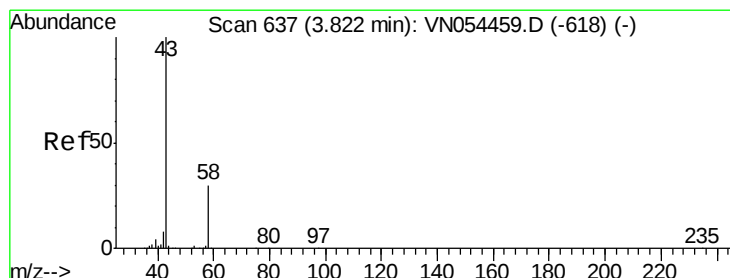
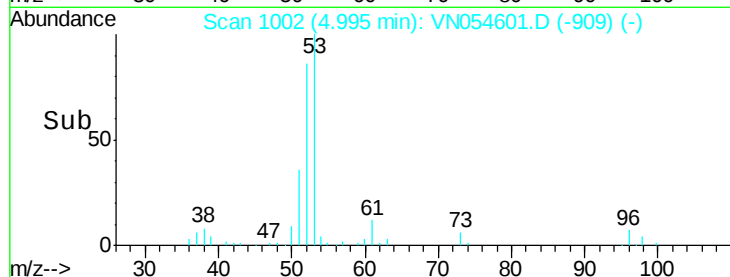
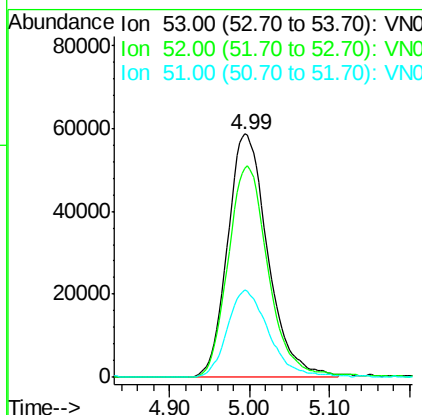
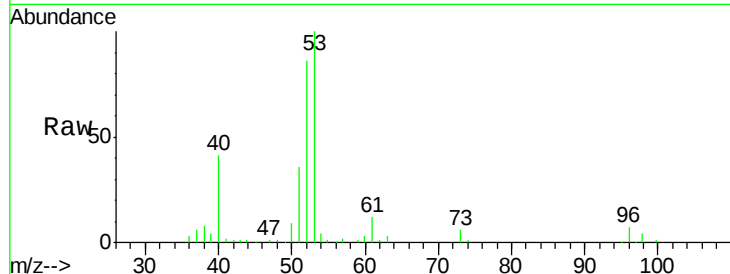
#15
 Acrylonitrile
 Concen: 119.493 ug/l
 RT: 4.99 min Scan# 1002
 Delta R.T. -0.00 min
 Lab File: VN054601.D
 Acq: 23 Mar 2019 13:42

Instrument :
 MSVOA_N
 ClientSampleId :
 VN0323WBS01

Tot Ion	Ratio	Lower	Upper
53	100		
52	86.0	66.4	99.6
51	36.8	29.6	44.4

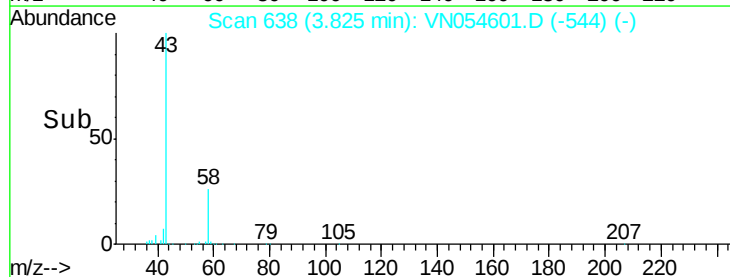
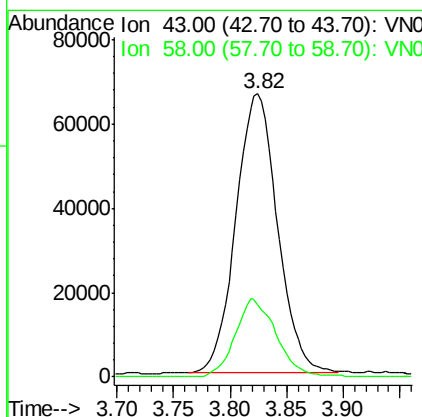
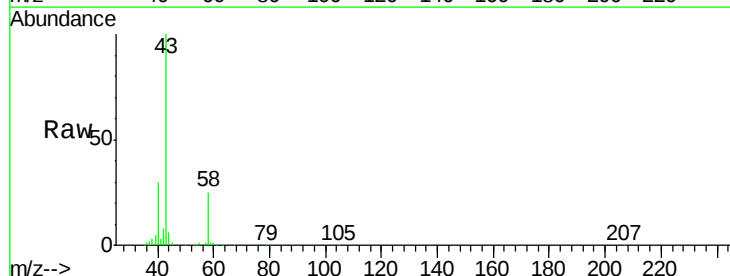
Manual Integrations
 APPROVED

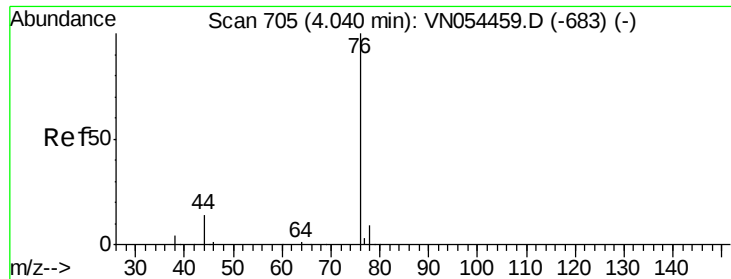
MMDadoda
 3/25/2019 10:23:33 AM



#16
 Acetone
 Concen: 101.155 ug/l
 RT: 3.82 min Scan# 638
 Delta R.T. 0.00 min
 Lab File: VN054601.D
 Acq: 23 Mar 2019 13:42

Tgt Ion	Ratio	Lower	Upper
43	100		
58	25.8	29.9	44.9#





#17

Carbon Disulfide

Concen: 17.776 ug/l

RT: 4.04 min Scan# 705

Delta R.T. -0.00 min

Lab File: VN054601.D

Acq: 23 Mar 2019 13:42

Instrument :

MSVOA_N

ClientSampleId :

VN0323WBS01

Tot Ion: 76 Resp: 206199

Ion Ratio Lower Upper

76 100

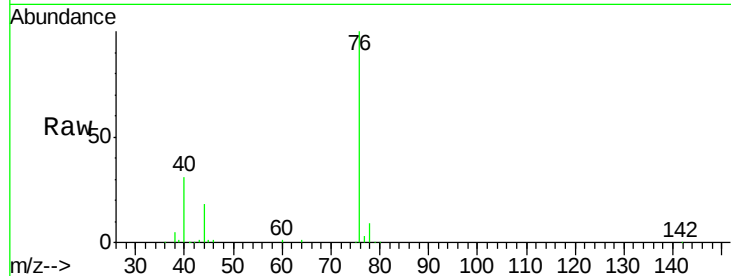
78 8.8 7.5 11.3

Manual Integrations

APPROVED

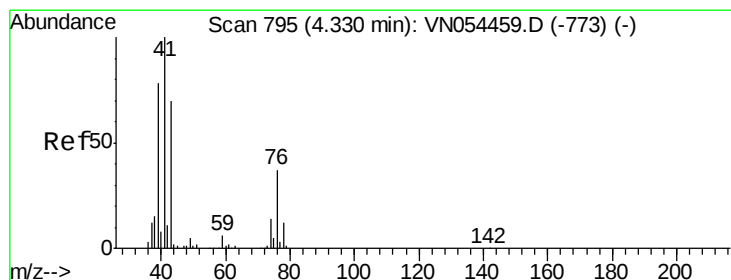
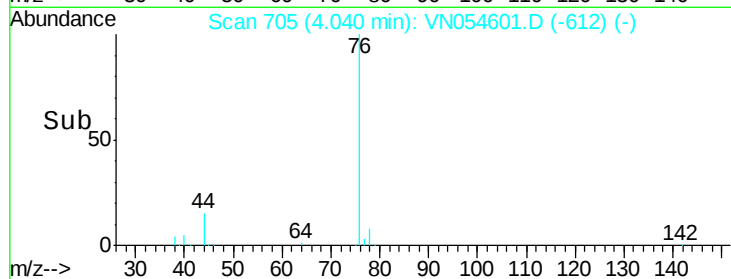
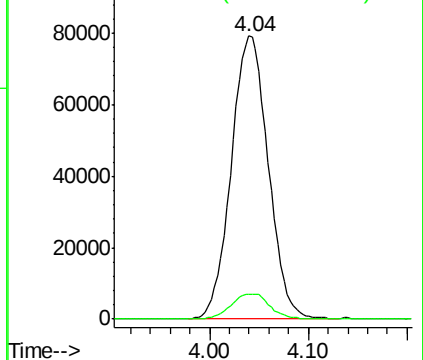
MMDadoda

3/25/2019 10:23:33 AM



Abundance Ion 75.90 (75.60 to 76.60): VNO

Ion 77.90 (77.60 to 78.60): VNO



#18

Methyl Acetate

Concen: 24.935 ug/l

RT: 4.33 min Scan# 795

Delta R.T. -0.00 min

Lab File: VN054601.D

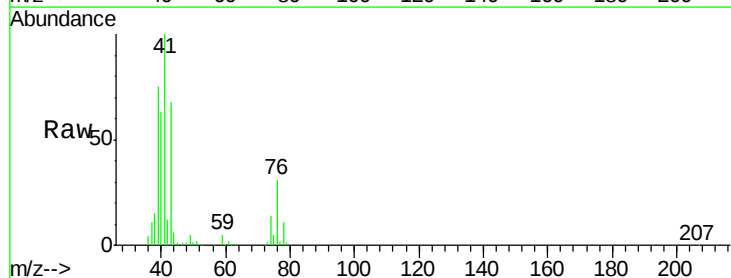
Acq: 23 Mar 2019 13:42

Tgt Ion: 43 Resp: 93288

Ion Ratio Lower Upper

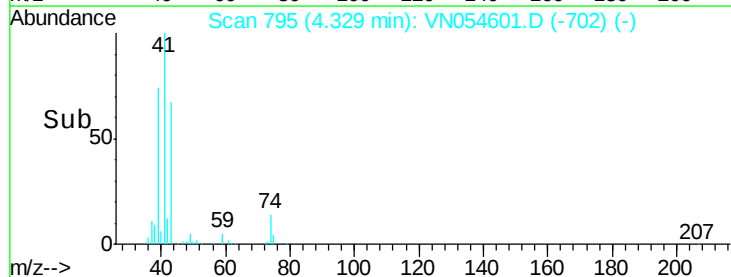
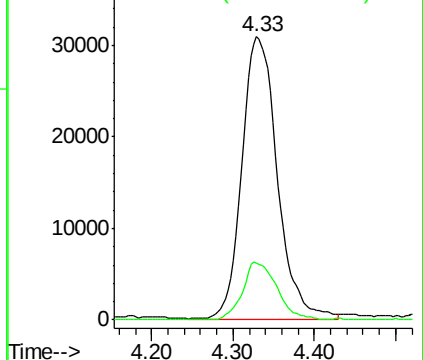
43 100

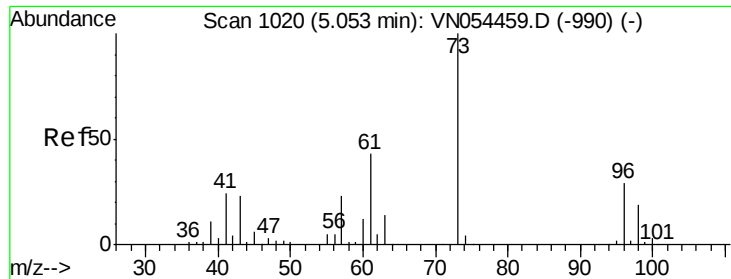
74 19.7 20.8 31.2#



Abundance Ion 43.00 (42.70 to 43.70): VNO

Ion 74.00 (73.70 to 74.70): VNO





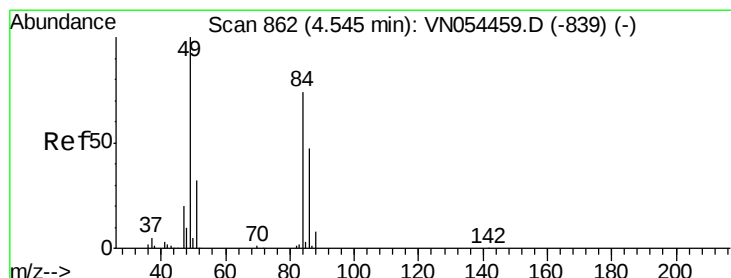
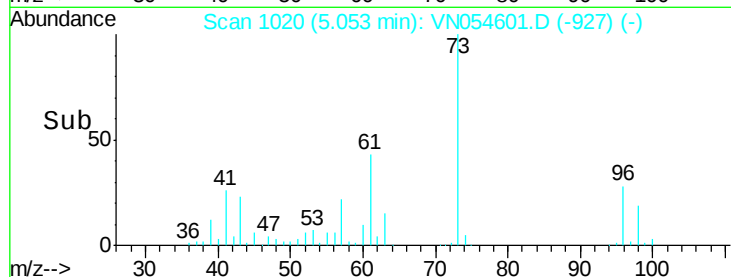
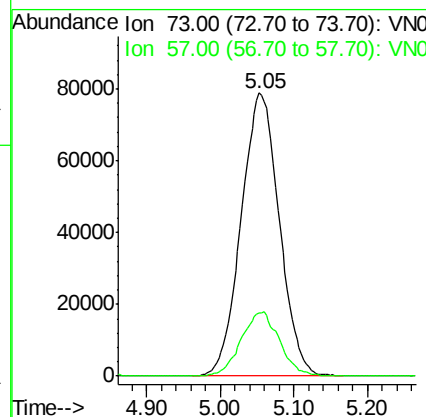
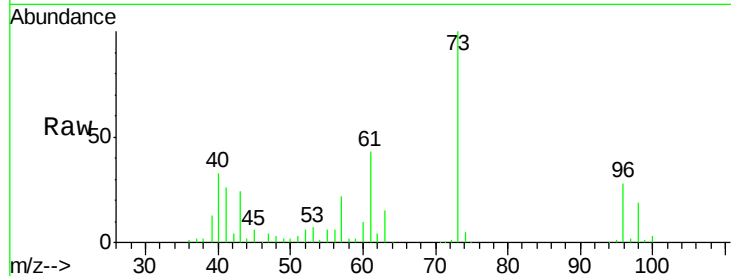
#19
Methvl tert-butvl Ether
Concen: 22.477 ug/l
RT: 5.05 min Scan# 1020
Delta R.T. -0.00 min
Lab File: VN054601.D
Acq: 23 Mar 2019 13:42

Instrument :
MSVOA_N
ClientSampleId :
VN0323WBS01

Tot Ion: 73 Resp: 283992
Ion Ratio Lower Upper
73 100
57 22.3 16.8 25.2

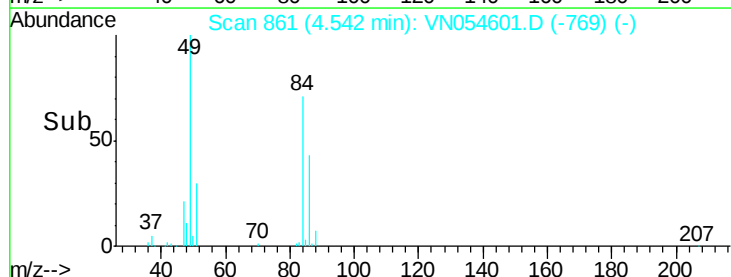
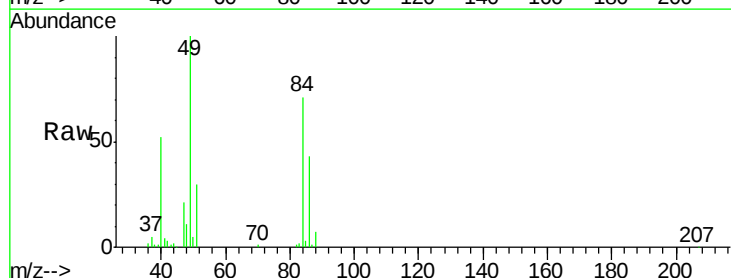
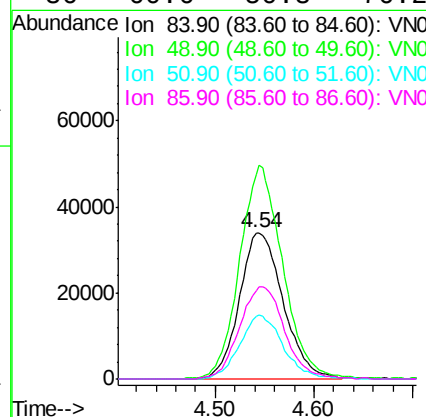
Manual Integrations
APPROVED

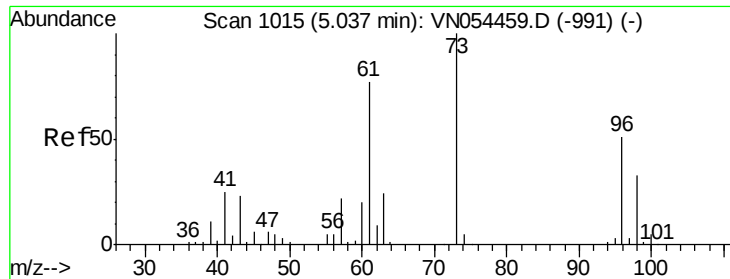
MMDadoda
3/25/2019 10:23:33 AM



#20
Methylene Chloride
Concen: 21.144 ug/l
RT: 4.54 min Scan# 861
Delta R.T. -0.00 min
Lab File: VN054601.D
Acq: 23 Mar 2019 13:42

Tgt Ion: 84 Resp: 104618
Ion Ratio Lower Upper
84 100
49 140.0 89.7 134.5#
51 42.8 28.2 42.4#
86 60.6 50.8 76.2





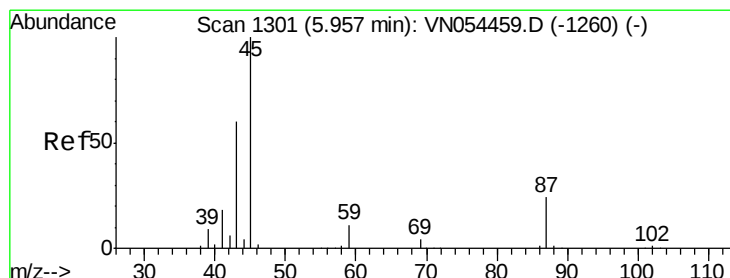
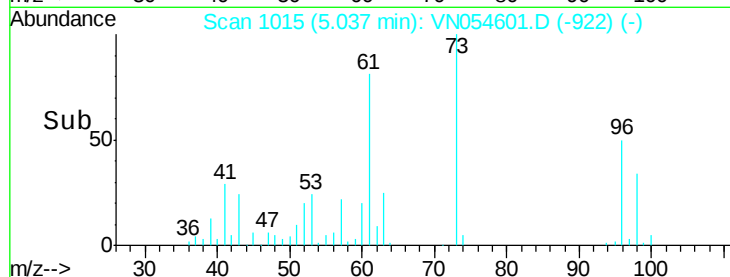
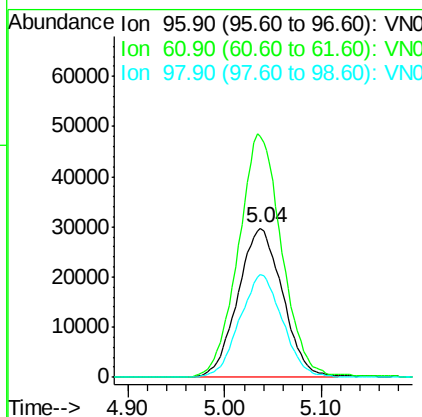
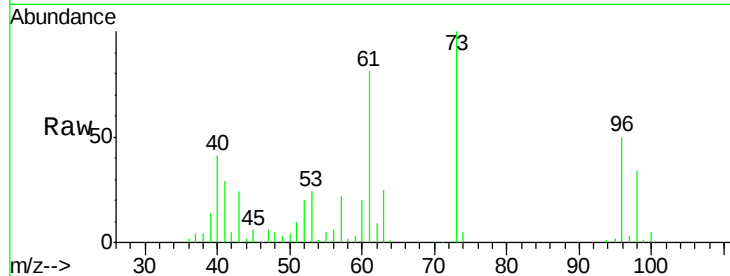
#21
trans-1,2-Dichloroethene
Concen: 21.582 ug/l
RT: 5.04 min Scan# 1015
Delta R.T. -0.00 min
Lab File: VN054601.D
Acq: 23 Mar 2019 13:42

Instrument :
MSVOA_N
ClientSampleId :
VN0323WBS01

Tot Ion: 96 Resp: 95404
Ion Ratio Lower Upper
96 100
61 162.0 102.8 154.2#
98 68.6 50.0 75.0

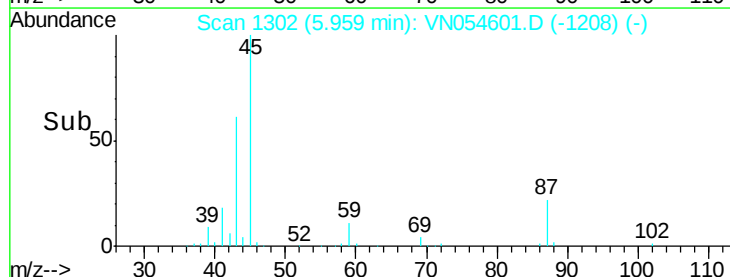
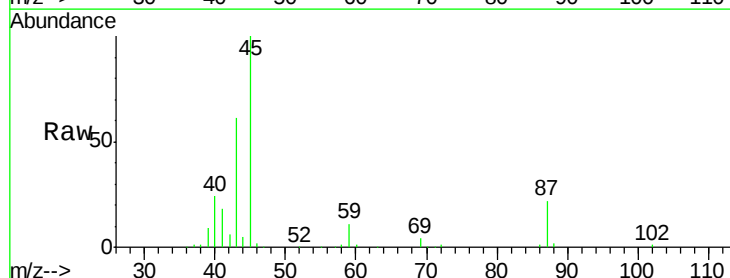
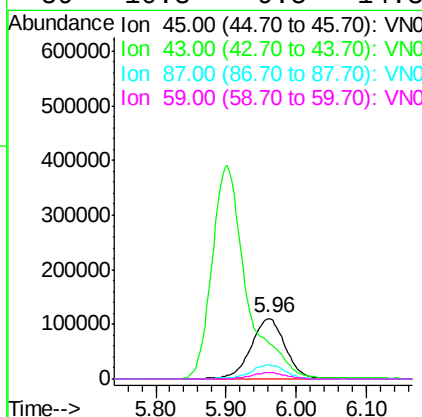
Manual Integrations
APPROVED

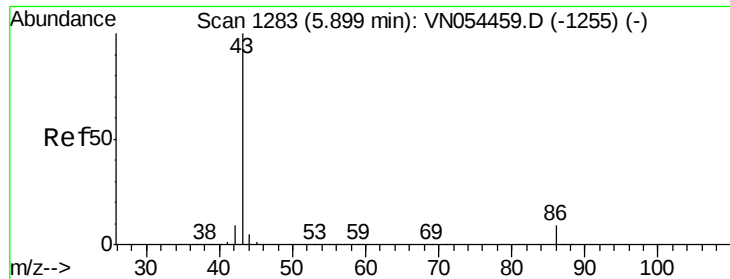
MMDadoda
3/25/2019 10:23:33 AM



#22
Diisopropyl ether
Concen: 23.514 ug/l
RT: 5.96 min Scan# 1302
Delta R.T. 0.00 min
Lab File: VN054601.D
Acq: 23 Mar 2019 13:42

Tgt Ion: 45 Resp: 378112
Ion Ratio Lower Upper
45 100
43 59.2 48.2 72.2
87 22.2 24.9 37.3#
59 10.3 9.5 14.3





#23

Vinyl Acetate

Concen: 117.081 ug/l

RT: 5.90 min Scan# 1284

Delta R.T. 0.00 min

Lab File: VN054601.D

Acq: 23 Mar 2019 13:42

Instrument :

MSVOA_N

ClientSampleId :

VN0323WBS01

Tot Ion: 43 Resp: 1329674

Ion Ratio Lower Upper

43 100

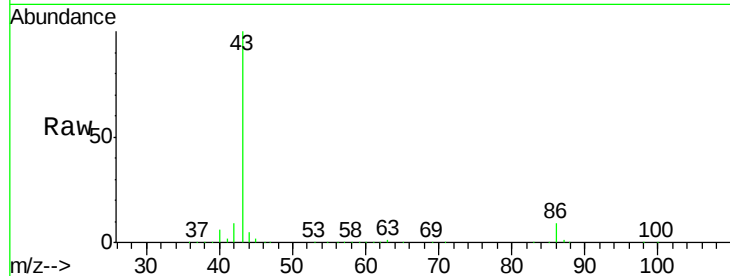
86 8.8 9.1 13.7#

Manual Integrations

APPROVED

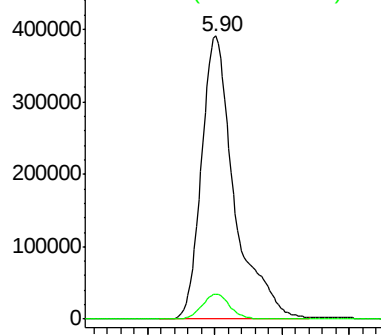
MMDadoda

3/25/2019 10:23:33 AM

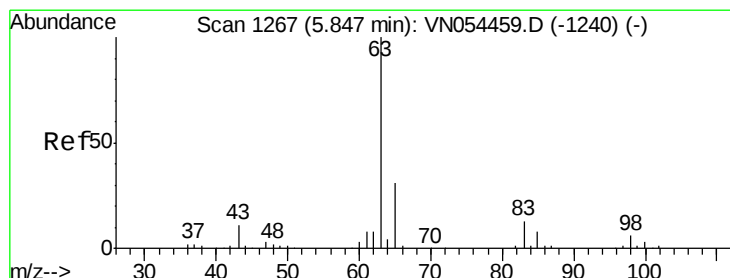
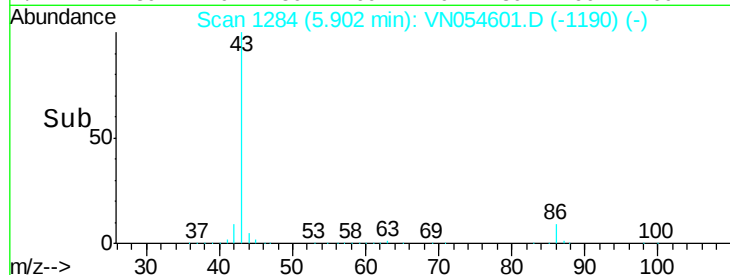


Abundance Ion 43.00 (42.70 to 43.70): VN0

Ion 86.00 (85.70 to 86.70): VN0



Time-->



#24

1,1-Dichloroethane

Concen: 22.469 ug/l

RT: 5.85 min Scan# 1268

Delta R.T. 0.00 min

Lab File: VN054601.D

Acq: 23 Mar 2019 13:42

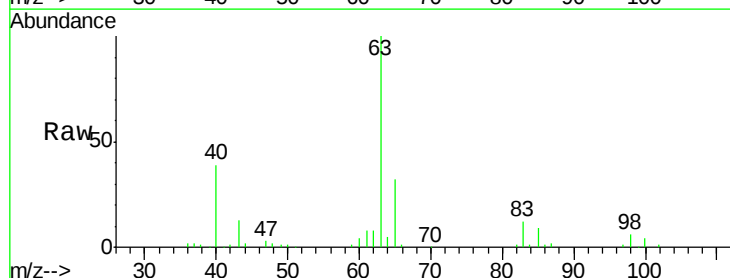
Tgt Ion: 63 Resp: 194533

Ion Ratio Lower Upper

63 100

98 6.1 3.5 10.5

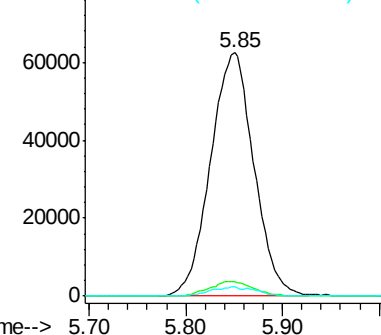
100 4.0 2.0 6.0



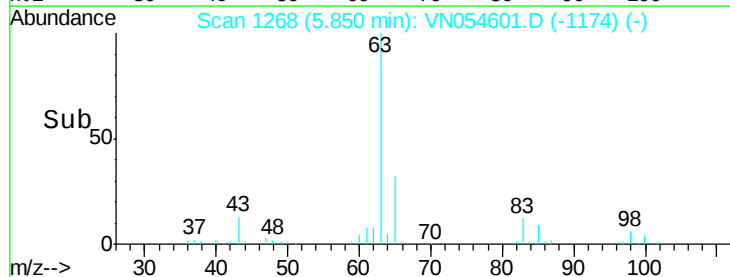
Abundance Ion 62.90 (62.60 to 63.60): VN0

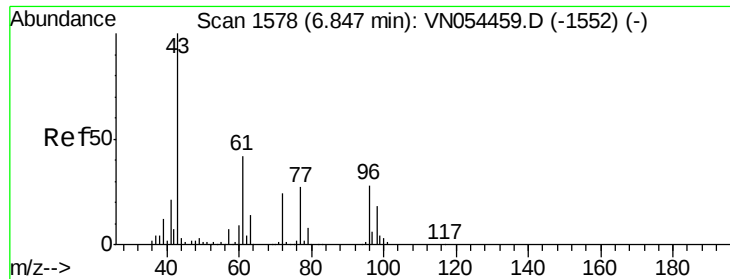
Ion 97.90 (97.60 to 98.60): VN0

Ion 99.90 (99.60 to 100.60): VN0



Time-->





#25

2-Butanone

Concen: 121.608 ug/l

RT: 6.85 min Scan# 1579

Delta R.T. 0.00 min

Lab File: VN054601.D

Acq: 23 Mar 2019 13:42

Instrument :

MSVOA_N

ClientSampleId :

VN0323WBS01

Tot Ion: 43 Resp: 261473

Ion Ratio Lower Upper

43 100

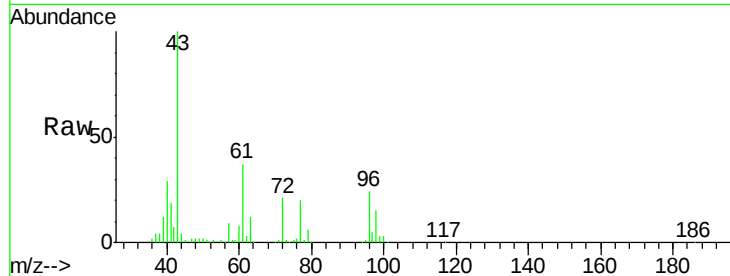
72 21.2 23.0 34.6#

Manual Integrations

APPROVED

MMDadoda

3/25/2019 10:23:33 AM



Abundance Ion 43.00 (42.70 to 43.70): VN0

Ion 72.00 (71.70 to 72.70): VN0

6.85

80000

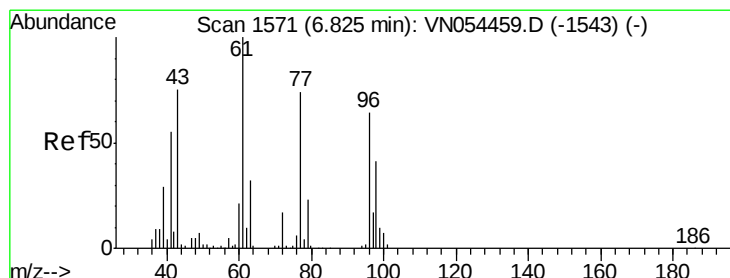
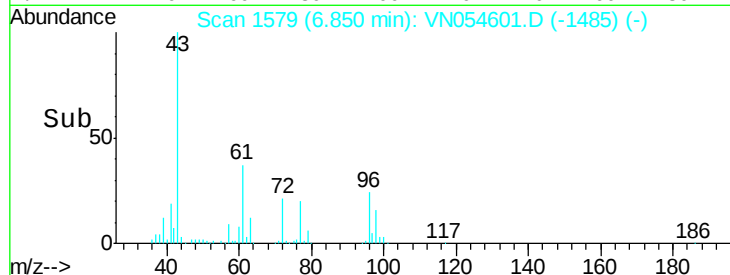
60000

40000

20000

0

Time-->



#26

2,2-Dichloropropane

Concen: 21.083 ug/l

RT: 6.82 min Scan# 1571

Delta R.T. -0.00 min

Lab File: VN054601.D

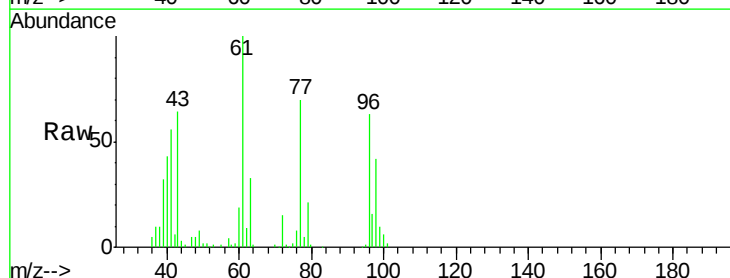
Acq: 23 Mar 2019 13:42

Tgt Ion: 77 Resp: 130120

Ion Ratio Lower Upper

77 100

97 23.2 11.9 35.9



Abundance Ion 76.90 (76.60 to 77.60): VN0

Ion 96.90 (96.60 to 97.60): VN0

6.82

50000

40000

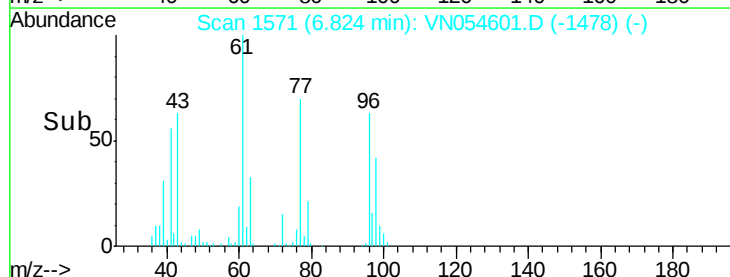
30000

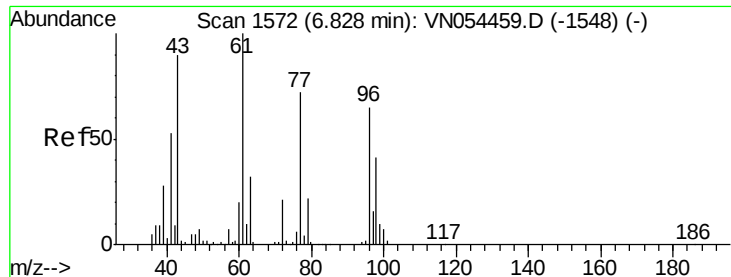
20000

10000

0

Time-->





#27

cis-1,2-Dichloroethene

Concen: 20.844 ug/l

RT: 6.83 min Scan# 1572

Delta R.T. -0.00 min

Lab File: VN054601.D

Acq: 23 Mar 2019 13:42

Instrument :

MSVOA_N

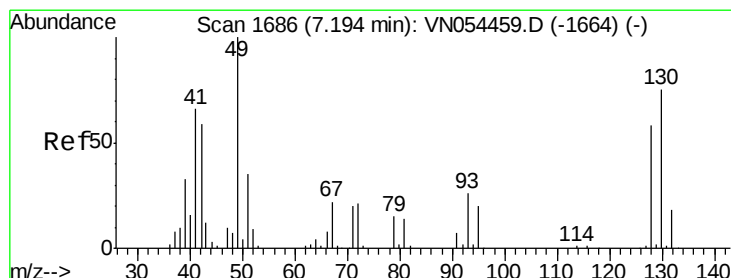
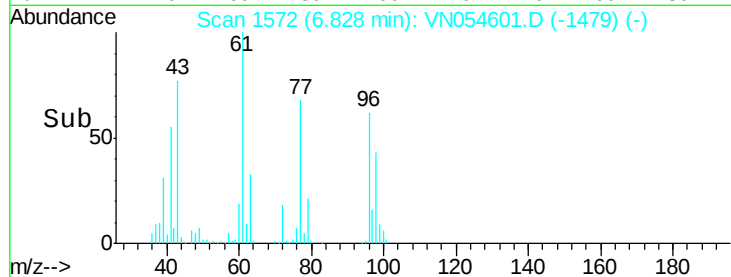
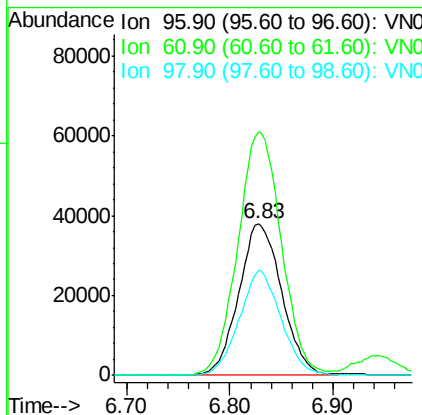
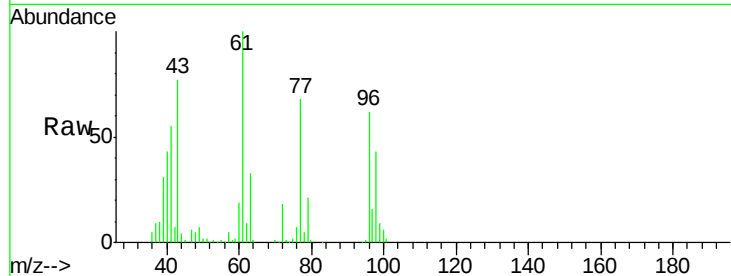
ClientSampleId :

VN0323WBS01

Tot Ion:	96	Resp:	109904
Ion	Ratio	Lower	Upper
96	100		
61	162.5	0.0	273.0
98	67.2	0.0	130.6

Manual Integrations
APPROVED

MMDadoda
3/25/2019 10:23:33 AM



#28

Bromochloromethane

Concen: 23.099 ug/l

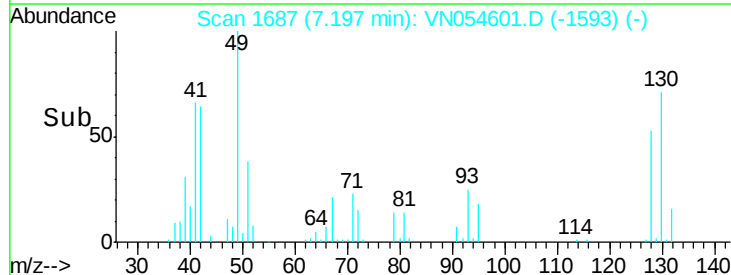
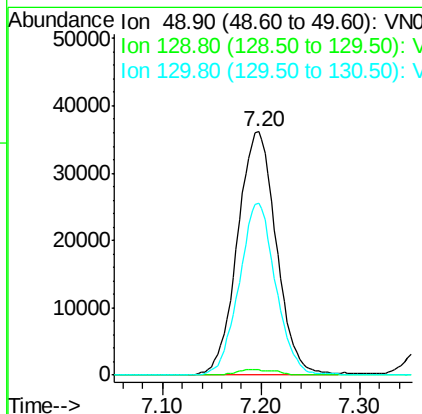
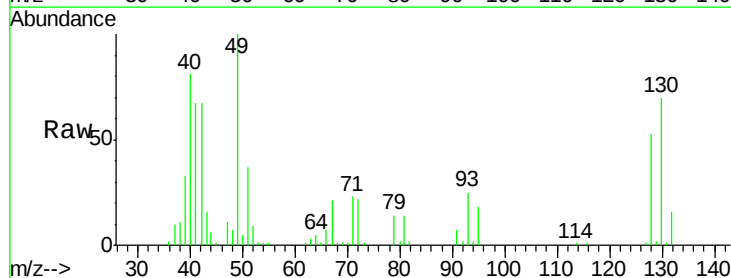
RT: 7.20 min Scan# 1687

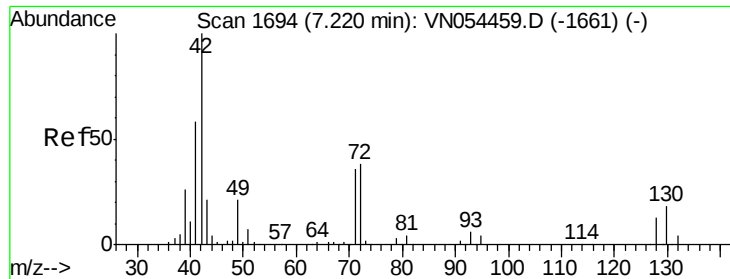
Delta R.T. 0.00 min

Lab File: VN054601.D

Acq: 23 Mar 2019 13:42

Tgt Ion:	49	Resp:	98442
Ion	Ratio	Lower	Upper
49	100		
129	2.1	0.0	4.6
130	66.3	76.7	115.1#





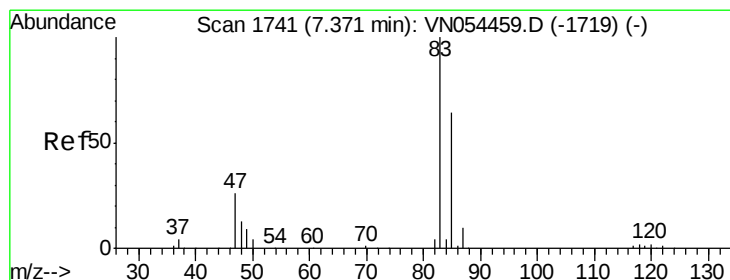
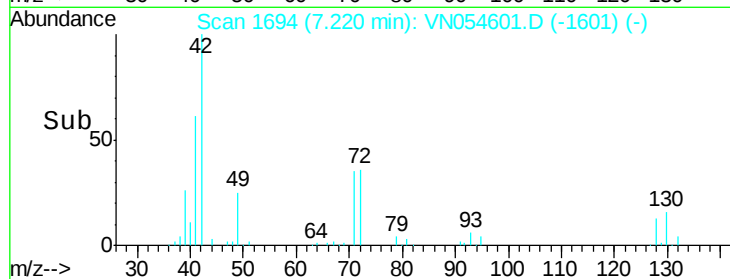
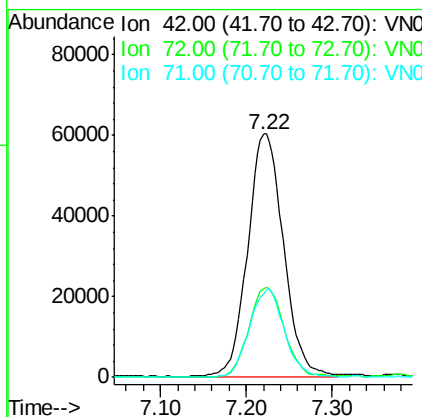
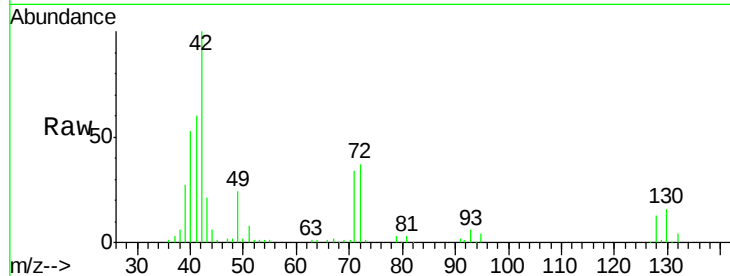
#29
Tetrahydrofuran
Concen: 124.900 ug/l
RT: 7.22 min Scan# 1694
Delta R.T. -0.00 min
Lab File: VN054601.D
Acq: 23 Mar 2019 13:42

Instrument :
MSVOA_N
ClientSampleId :
VN0323WBS01

Tot Ion	Ratio	Lower	Upper
42	100		
72	37.0	37.8	56.6#
71	35.7	36.2	54.2#

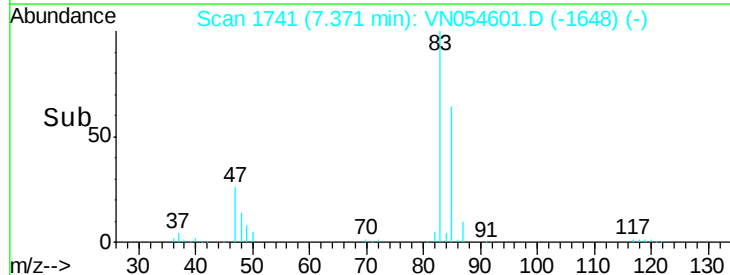
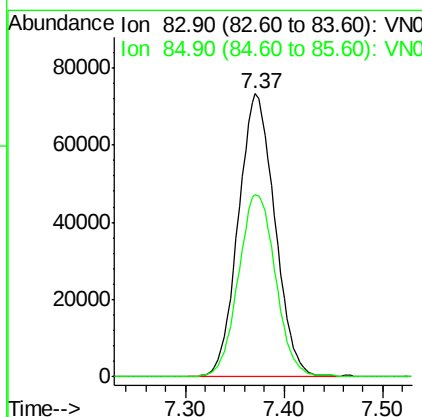
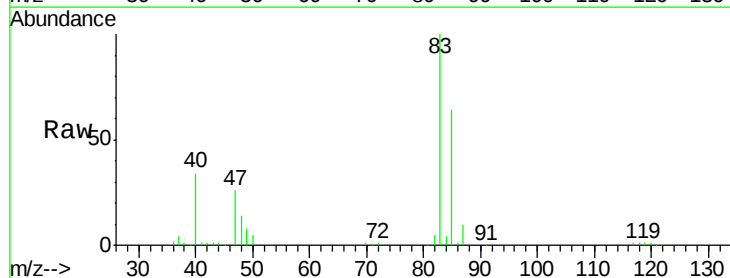
Manual Integrations
APPROVED

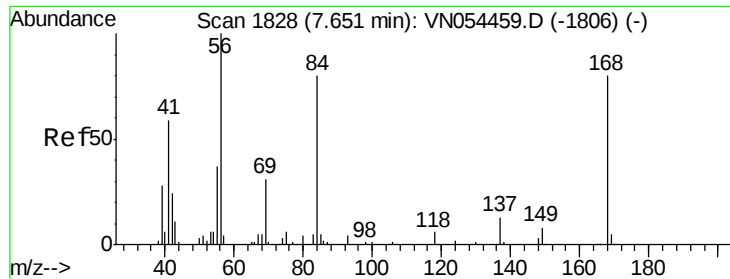
MMDadoda
3/25/2019 10:23:33 AM



#30
Chloroform
Concen: 22.221 ug/l
RT: 7.37 min Scan# 1741
Delta R.T. -0.00 min
Lab File: VN054601.D
Acq: 23 Mar 2019 13:42

Tgt Ion	Ratio	Lower	Upper
83	100		
85	64.4	52.2	78.4





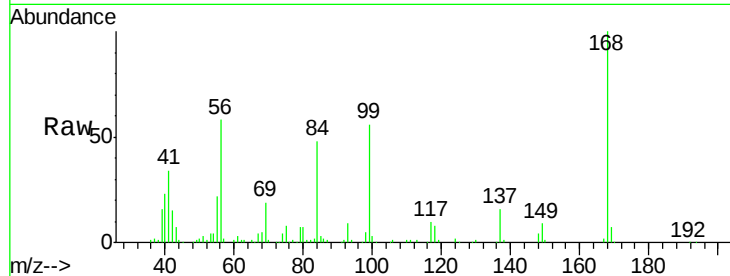
#31
Cyclohexane
Concen: 21.486 ug/l
RT: 7.65 min Scan# 1828
Delta R.T. -0.00 min
Lab File: VN054601.D
Acq: 23 Mar 2019 13:42

Instrument :
MSVOA_N
ClientSampleID :
VN0323WBS01

Tot Ion	Ratio	Lower	Upper
56	100		
69	32.1	27.8	41.6
84	81.8	74.6	111.8

Manual Integrations
APPROVED

MMDadoda
3/25/2019 10:23:33 AM

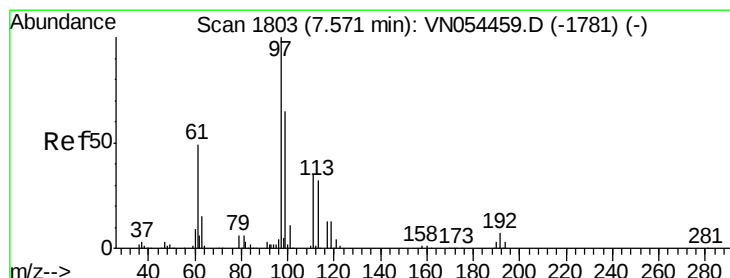
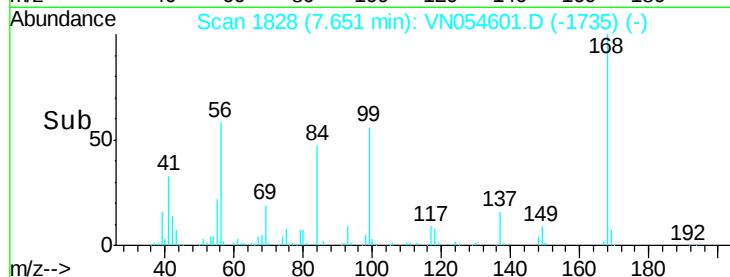
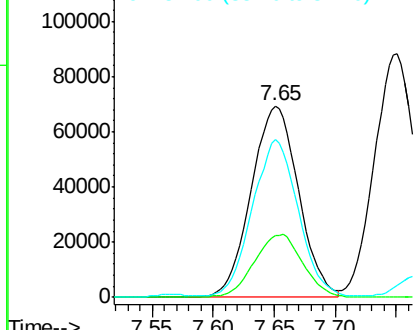


Abundance

Ion 56.00 (55.70 to 56.70): VNC

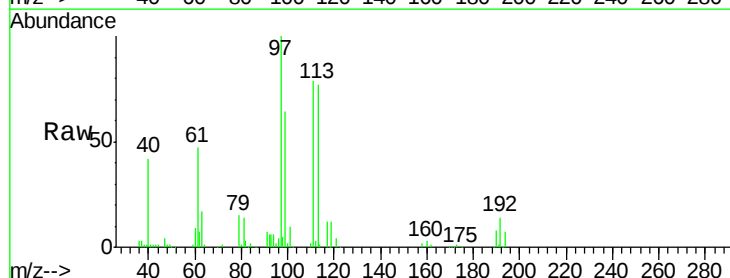
Ion 69.00 (68.70 to 69.70): VNC

Ion 84.00 (83.70 to 84.70): VNC



#32
1,1,1-Trichloroethane
Concen: 22.003 ug/l
RT: 7.57 min Scan# 1803
Delta R.T. -0.00 min
Lab File: VN054601.D
Acq: 23 Mar 2019 13:42

Tgt Ion	Ratio	Lower	Upper
97	100		
99	63.3	51.5	77.3
61	48.5	33.6	50.4

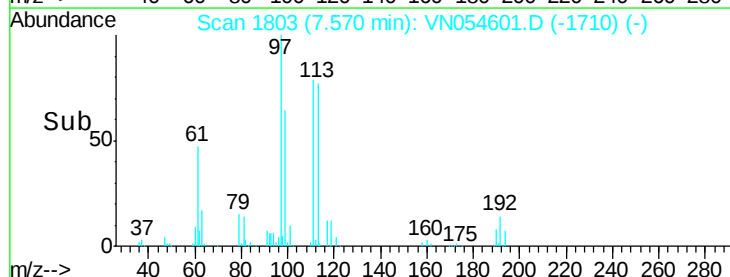
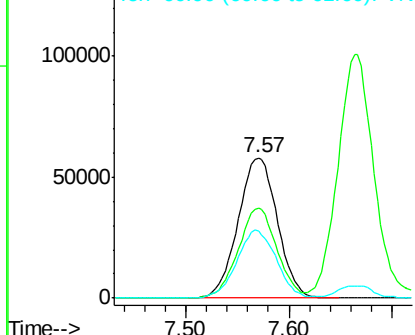


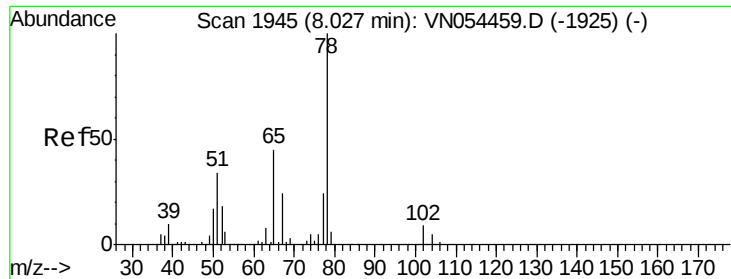
Abundance

Ion 96.90 (96.60 to 97.60): VNC

Ion 98.90 (98.60 to 99.60): VNC

Ion 60.90 (60.60 to 61.60): VNC





#33

1,2-Dichloroethane-d4

Concen: 56.070 ug/l

RT: 8.03 min Scan# 1945

Delta R.T. -0.00 min

Lab File: VN054601.D

Acq: 23 Mar 2019 13:42

Instrument :

MSVOA_N

ClientSampled :

VN0323WBS01

Tot Ion: 65 Resp: 313028

Ion Ratio Lower Upper

65 100

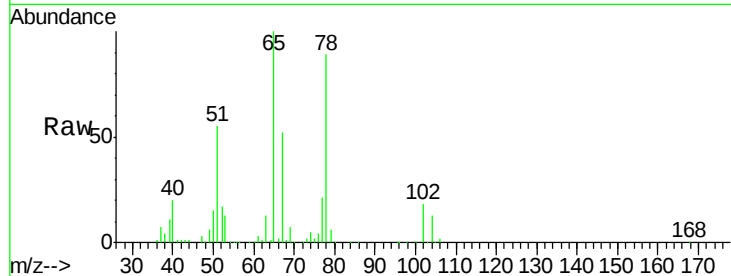
67 53.0 0.0 104.6

Manual Integrations

APPROVED

MMDadoda

3/25/2019 10:23:33 AM



Abundance Ion 64.90 (64.60 to 65.60): VN054459.D (-1925) (-)

Ion 66.90 (66.60 to 67.60): VN054459.D (-1925) (-)

8.03

150000

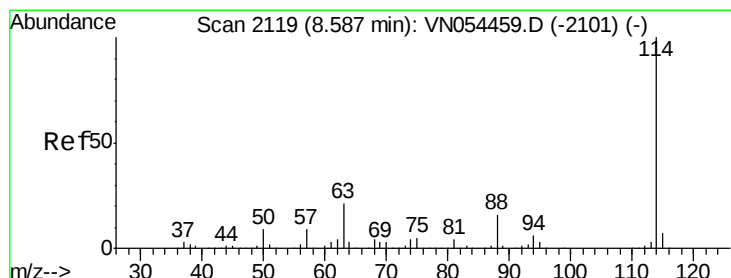
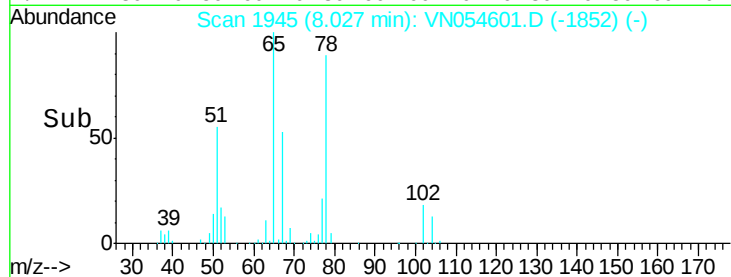
100000

50000

0

7.95 8.00 8.05 8.10

Time-->



#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 8.59 min Scan# 2119

Delta R.T. -0.00 min

Lab File: VN054601.D

Acq: 23 Mar 2019 13:42

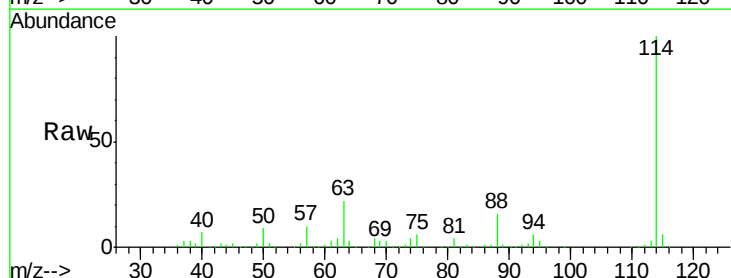
Tgt Ion: 114 Resp: 744500

Ion Ratio Lower Upper

114 100

63 22.0 0.0 35.2

88 15.6 0.0 30.2



Abundance Ion 113.90 (113.60 to 114.60): VN054459.D (-2101) (-)

Ion 63.00 (62.70 to 63.70): VN054459.D (-2101) (-)

Ion 87.90 (87.60 to 88.60): VN054459.D (-2101) (-)

8.59

400000

300000

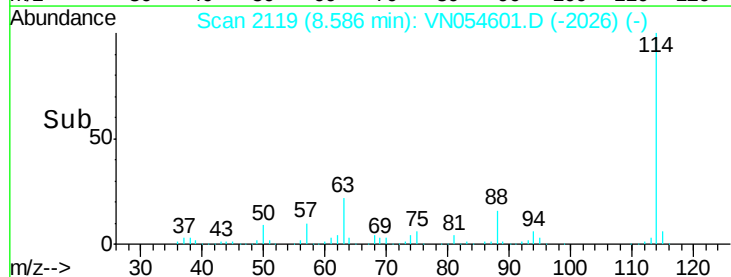
200000

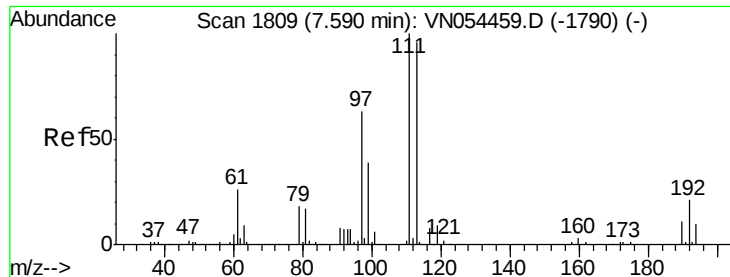
100000

0

8.50 8.60 8.70 8.80

Time-->





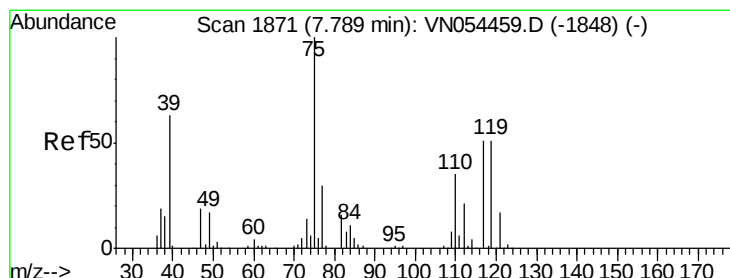
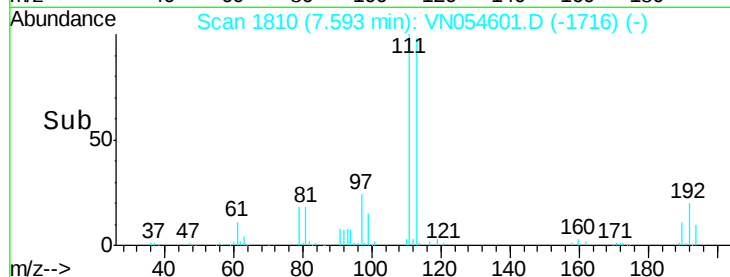
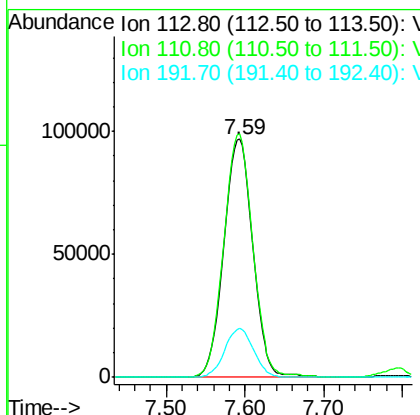
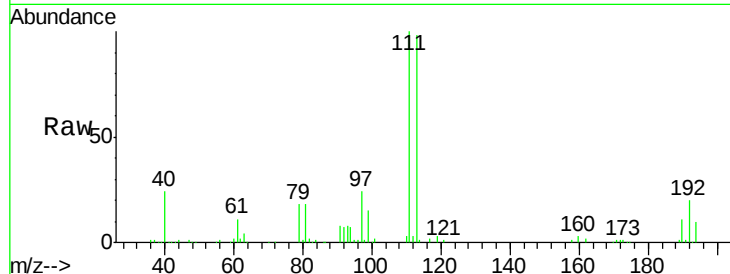
#35
 Dibromofluoromethane
 Concen: 51.533 ug/l
 RT: 7.59 min Scan# 1810
 Delta R.T. 0.00 min
 Lab File: VN054601.D
 Acq: 23 Mar 2019 13:42

Instrument :
 MSVOA_N
 ClientSampleId :
 VN0323WBS01

Tot Ion	Ratio	Resp	Lower	Upper
113	100	247172		
111	102.5	82.2	123.4	
192	20.4	19.2	28.8	

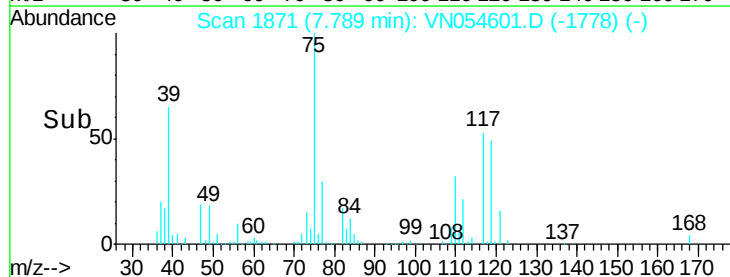
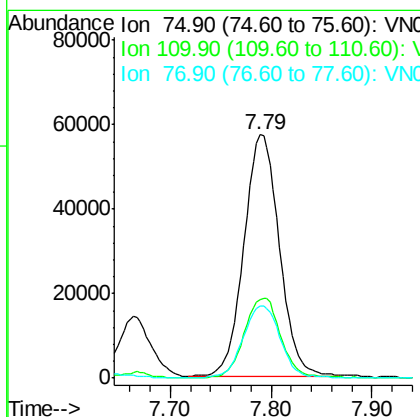
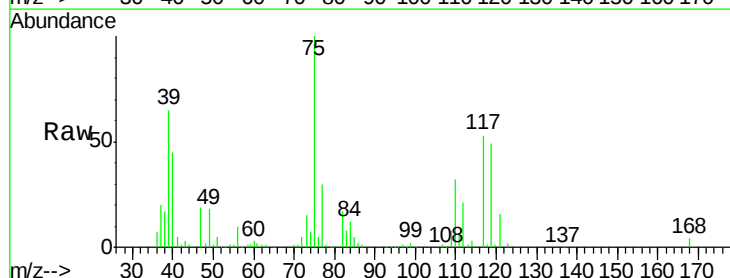
Manual Integrations
 APPROVED

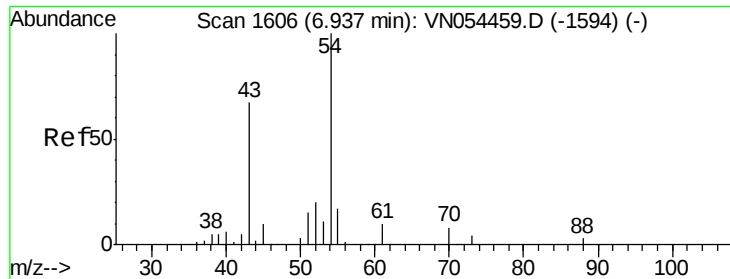
MMDadoda
 3/25/2019 10:23:33 AM



#36
 1,1-Dichloropropene
 Concen: 20.088 ug/l
 RT: 7.79 min Scan# 1871
 Delta R.T. -0.00 min
 Lab File: VN054601.D
 Acq: 23 Mar 2019 13:42

Tgt Ion	Ratio	Resp	Lower	Upper
75	100	139838		
110	34.0	19.1	57.5	
77	31.5	25.0	37.4	





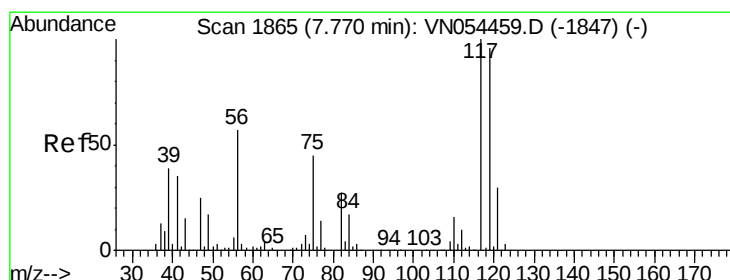
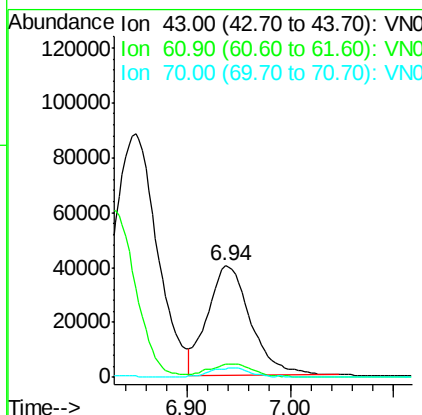
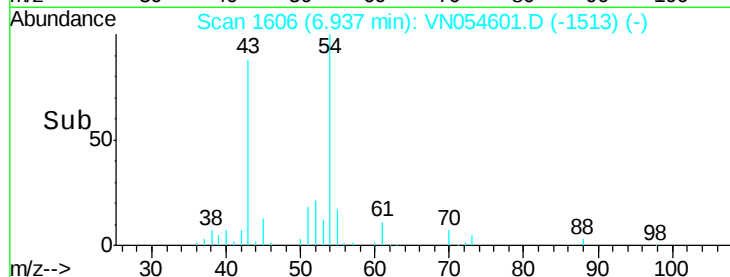
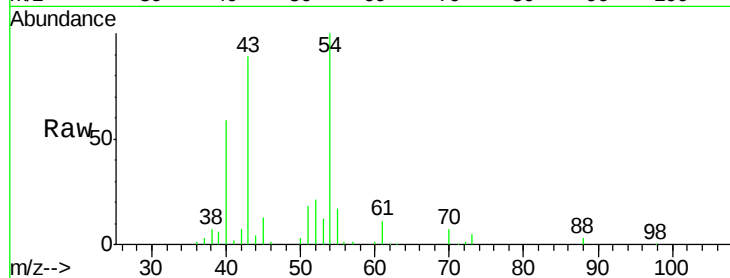
#37
Ethyl Acetate
Concen: 23.484 ug/l
RT: 6.94 min Scan# 1606
Delta R.T. -0.00 min
Lab File: VN054601.D
Acq: 23 Mar 2019 13:42

Instrument :
MSVOA_N
ClientSampleID :
VN0323WBS01

Tot Ion	Ratio	Lower	Upper
43	100		
61	12.4	11.8	17.6
70	8.2	8.4	12.6

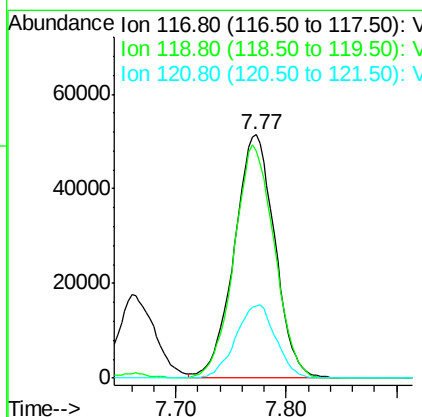
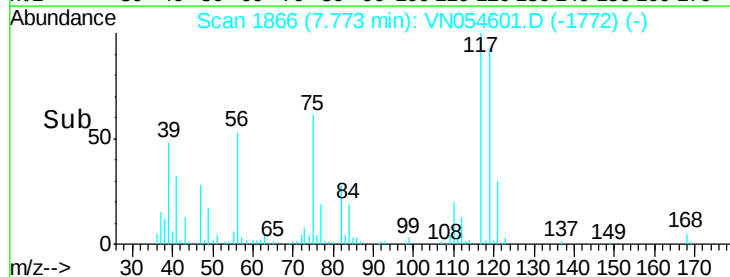
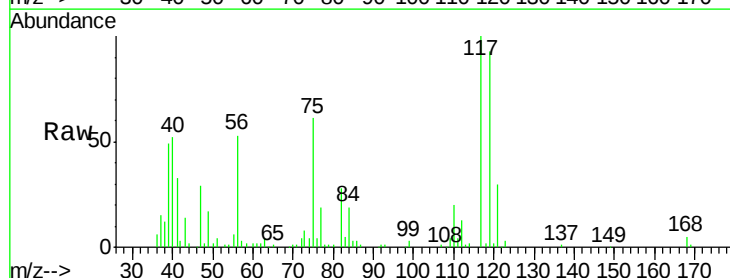
Manual Integrations
APPROVED

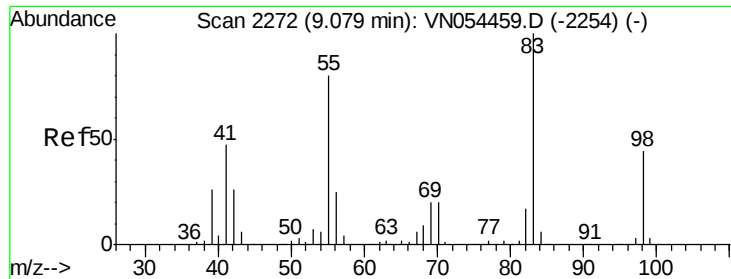
MMDadoda
3/25/2019 10:23:33 AM



#38
Carbon Tetrachloride
Concen: 19.361 ug/l
RT: 7.77 min Scan# 1866
Delta R.T. 0.00 min
Lab File: VN054601.D
Acq: 23 Mar 2019 13:42

Tgt Ion	Ratio	Lower	Upper
117	100		
119	93.3	76.3	114.5
121	29.8	24.6	36.8





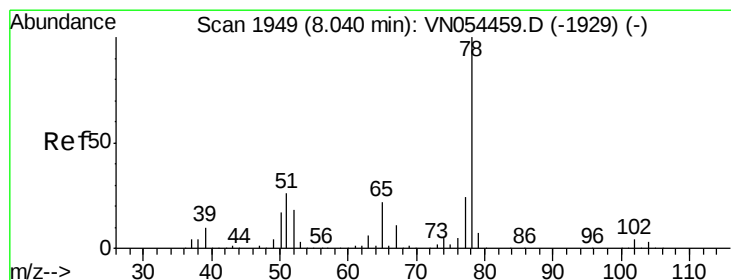
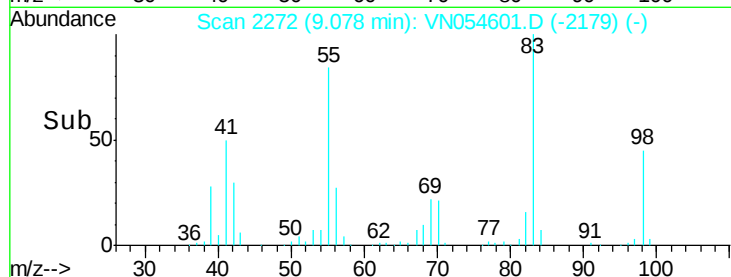
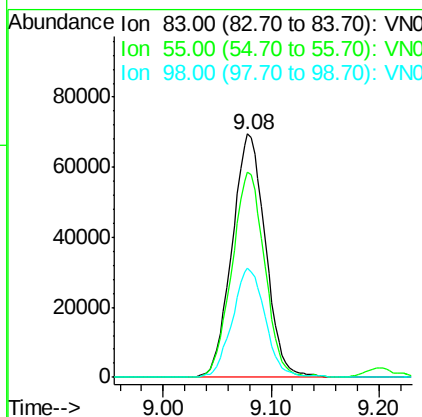
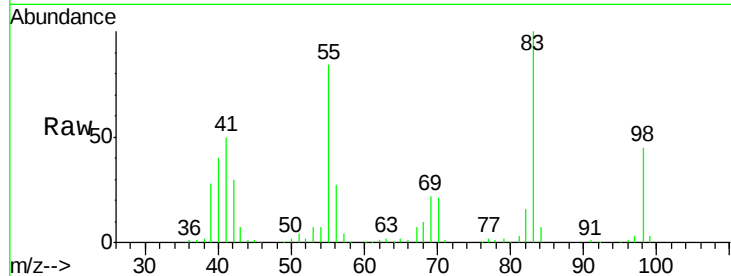
#39
Methvlcvclohexane
Concen: 18.782 ug/l
RT: 9.08 min Scan# 2272
Delta R.T. -0.00 min
Lab File: VN054601.D
Acq: 23 Mar 2019 13:42

Instrument :
MSVOA_N
ClientSampleId :
VN0323WBS01

Tot Ion	83	Resp	149557
Ion Ratio	100	Lower	Upper
83	100		
55	84.4	56.6	84.8
98	44.7	38.4	57.6

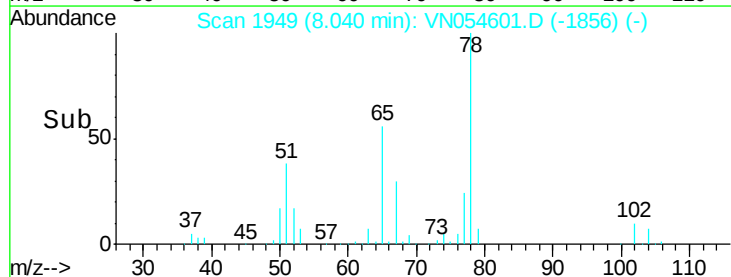
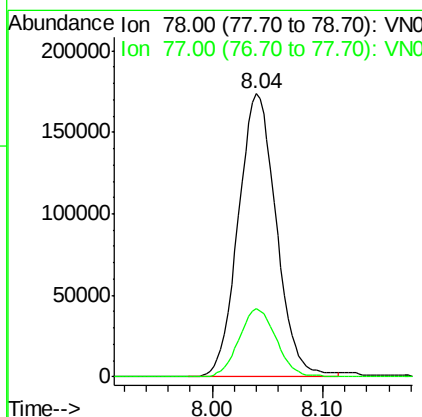
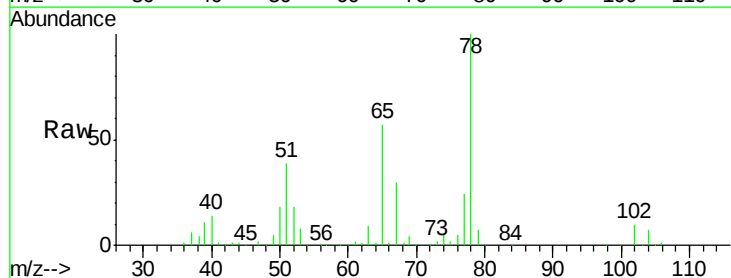
Manual Integrations
APPROVED

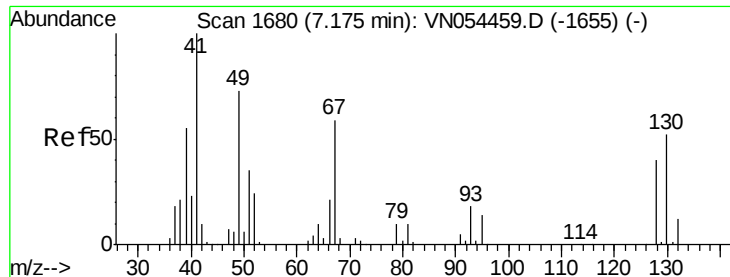
MMDadoda
3/25/2019 10:23:33 AM



#40
Benzene
Concen: 20.838 ug/l
RT: 8.04 min Scan# 1949
Delta R.T. -0.00 min
Lab File: VN054601.D
Acq: 23 Mar 2019 13:42

Tgt Ion	78	Resp	414793
Ion Ratio	100	Lower	Upper
78	100		
77	23.9	19.1	28.7





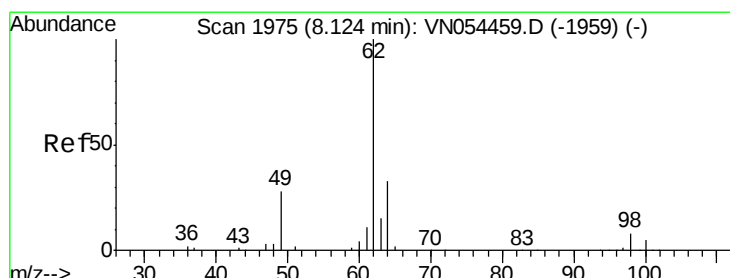
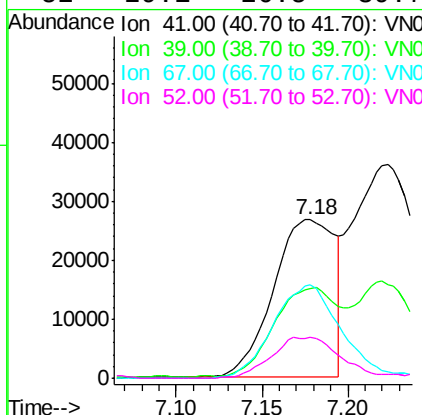
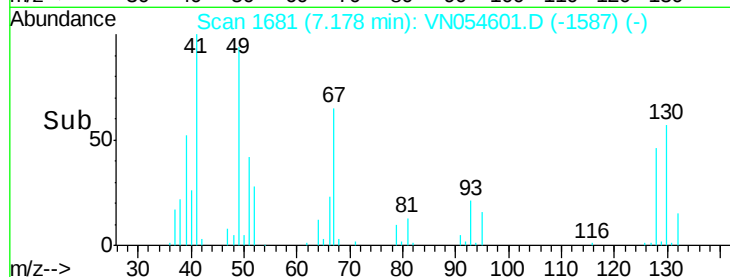
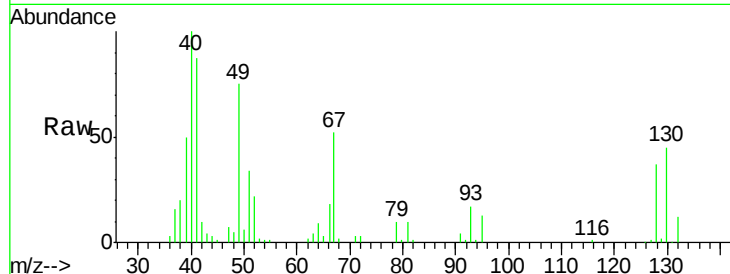
#41
Methacrylonitrile
Concen: 21.872 ug/l
RT: 7.18 min Scan# 1681
Delta R.T. 0.00 min
Lab File: VN054601.D
Acq: 23 Mar 2019 13:42

Instrument :
MSVOA_N
ClientSampled :
VN0323WBS01

Tot Ion	41	Ratio	Lower	Upper
41	100			
39	58.3	46.8	70.2	
67	66.7	67.0	100.4	
52	29.1	26.5	39.7	

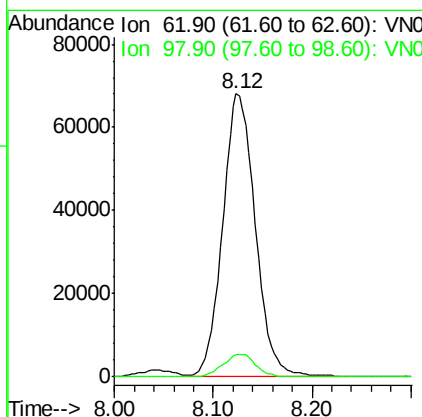
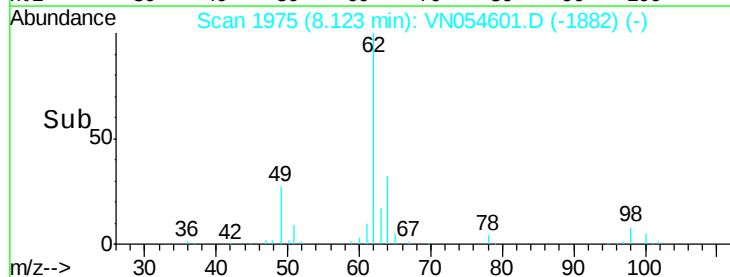
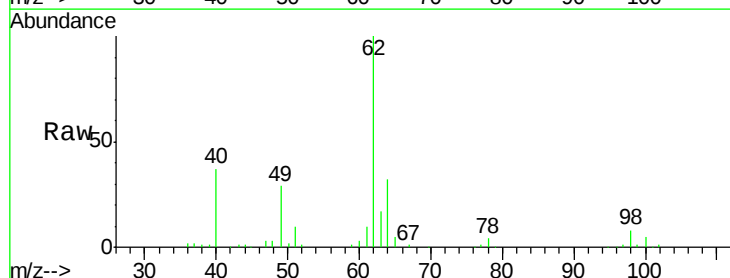
Manual Integrations
APPROVED

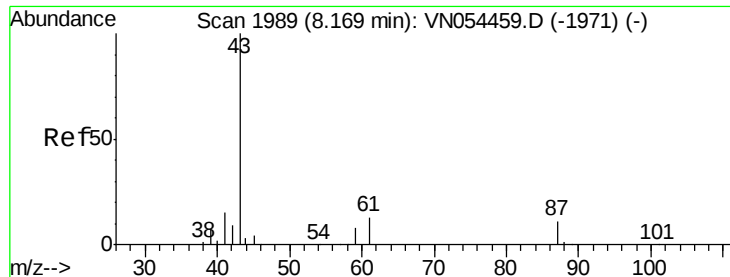
MMDadoda
3/25/2019 10:23:33 AM



#42
1,2-Dichloroethane
Concen: 21.593 ug/l
RT: 8.12 min Scan# 1975
Delta R.T. -0.00 min
Lab File: VN054601.D
Acq: 23 Mar 2019 13:42

Tgt Ion	62	Ratio	Lower	Upper
62	100			
98	8.0	0.0	18.4	





#43

Isopropyl Acetate

Concen: 22.912 ug/l

RT: 8.17 min Scan# 1989

Delta R.T. -0.00 min

Lab File: VN054601.D

Acq: 23 Mar 2019 13:42

Instrument :

MSVOA_N

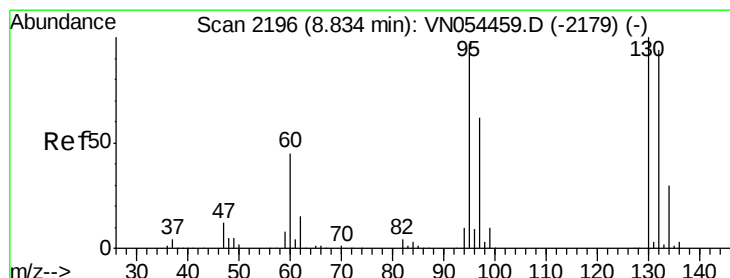
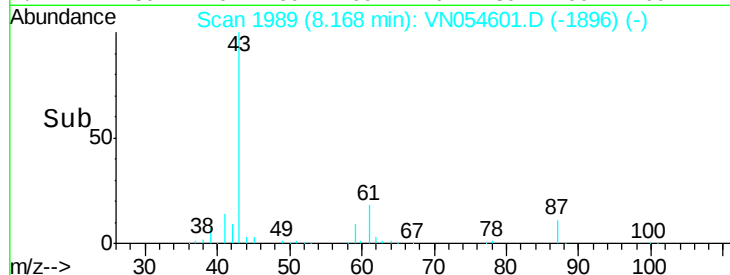
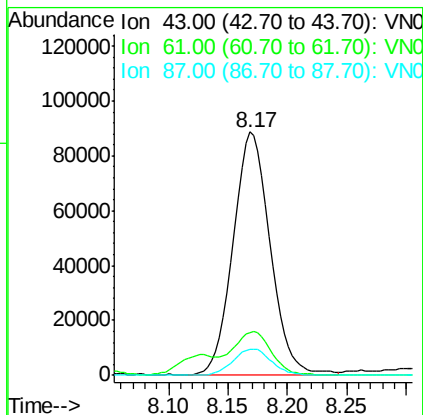
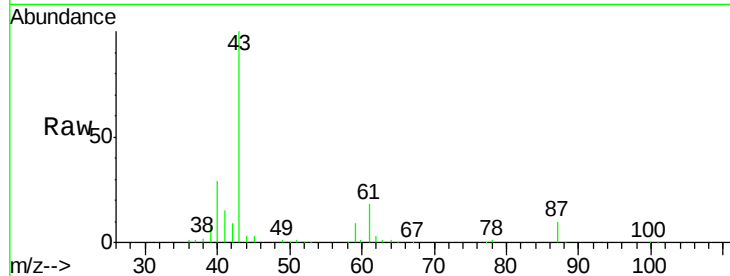
ClientSampleId :

VN0323WBS01

Tot Ion:	43	Resp:	191582
Ion	Ratio	Lower	Upper
43	100		
61	18.0	15.8	23.8
87	11.3	12.0	18.0#

Manual Integrations
APPROVED

MMDadoda
3/25/2019 10:23:33 AM



#44

Trichloroethene

Concen: 19.619 ug/l

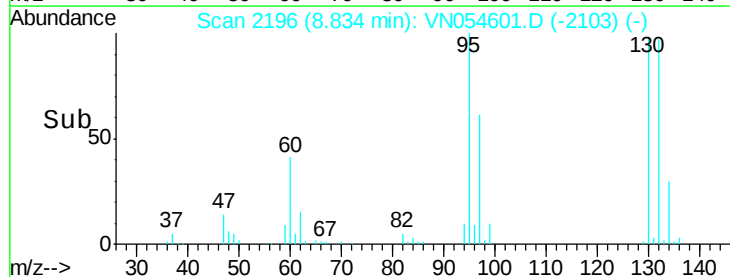
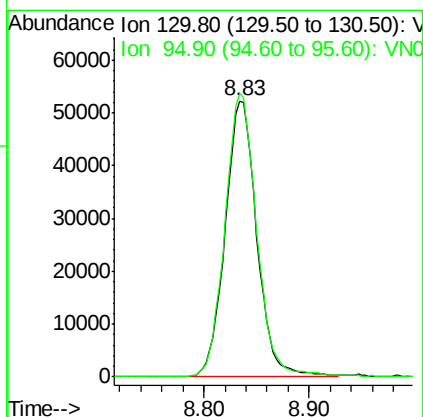
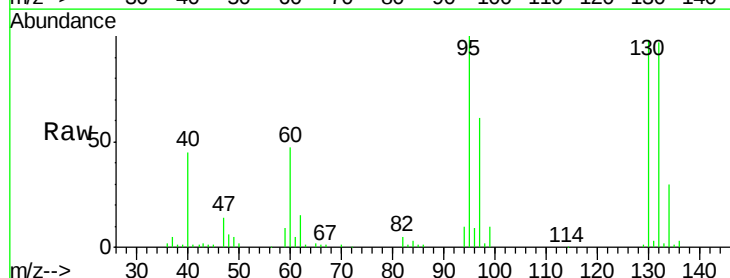
RT: 8.83 min Scan# 2196

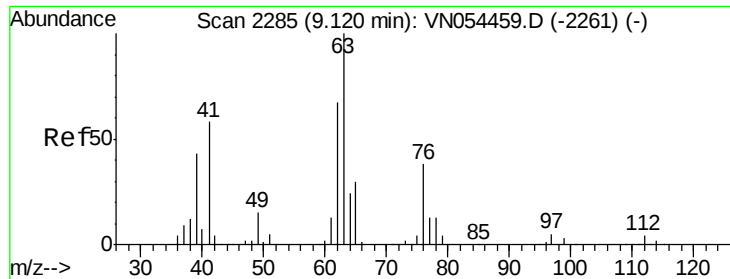
Delta R.T. -0.00 min

Lab File: VN054601.D

Acq: 23 Mar 2019 13:42

Tgt Ion:	130	Resp:	108573
Ion	Ratio	Lower	Upper
130	100		
95	102.2	0.0	185.2





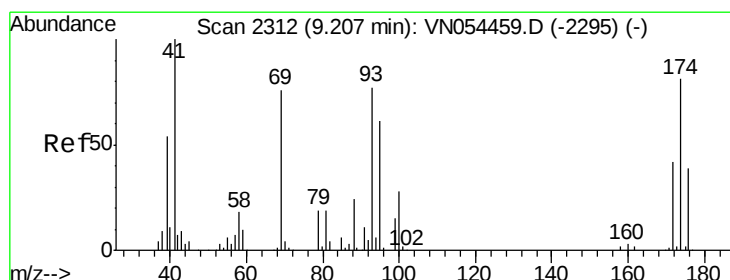
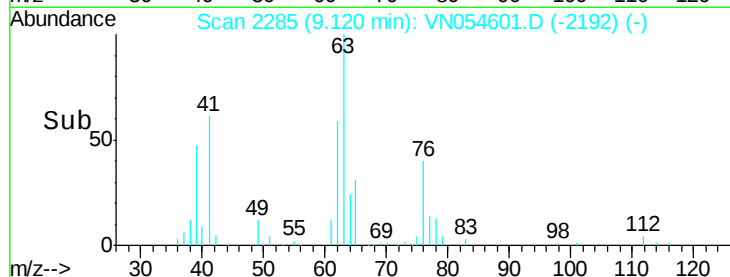
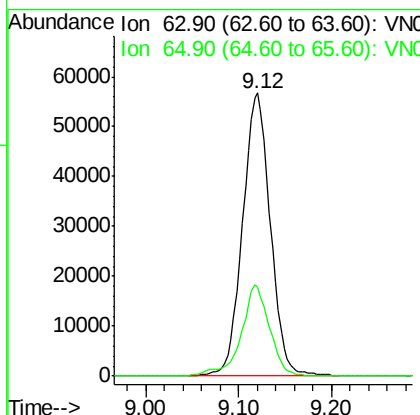
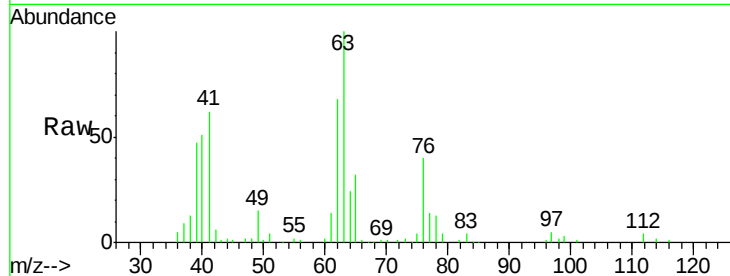
#45
 1,2-Dichloropropane
 Concen: 22.039 ug/l
 RT: 9.12 min Scan# 2285
 Delta R.T. -0.00 min
 Lab File: VN054601.D
 Acq: 23 Mar 2019 13:42

Instrument :
 MSVOA_N
 ClientSampleId :
 VN0323WBS01

Tot Ion: 63 Resp: 117801
 Ion Ratio Lower Upper
 63 100
 65 31.6 25.0 37.6

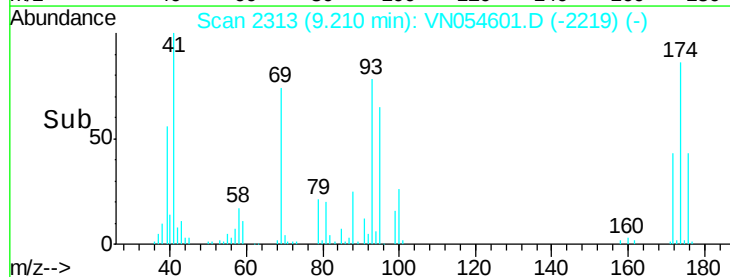
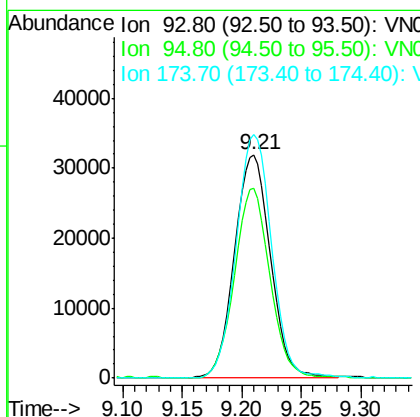
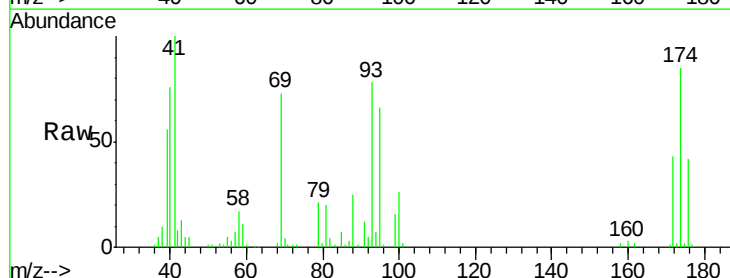
Manual Integrations
 APPROVED

MMDadoda
 3/25/2019 10:23:33 AM



#46
 Dibromomethane
 Concen: 20.973 ug/l
 RT: 9.21 min Scan# 2313
 Delta R.T. 0.00 min
 Lab File: VN054601.D
 Acq: 23 Mar 2019 13:42

Tgt Ion: 93 Resp: 66879
 Ion Ratio Lower Upper
 93 100
 95 83.6 66.7 100.1
 174 107.7 98.5 147.7





#47

Bromodichloromethane

Concen: 20.608 ug/l

RT: 9.40 min Scan# 2373

Delta R.T. -0.00 min

Lab File: VN054601.D

Acq: 23 Mar 2019 13:42

Instrument :

MSVOA_N

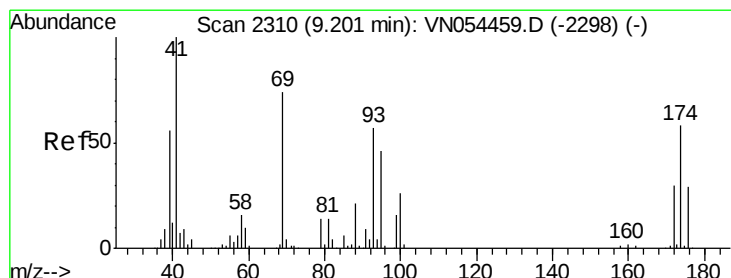
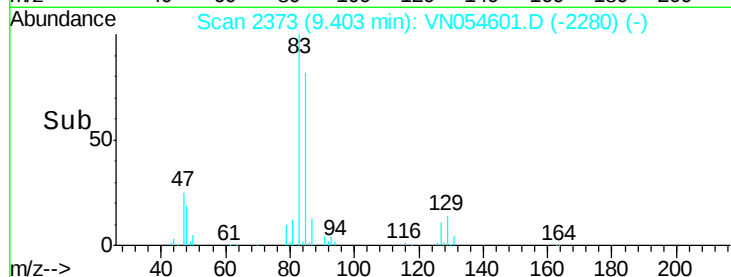
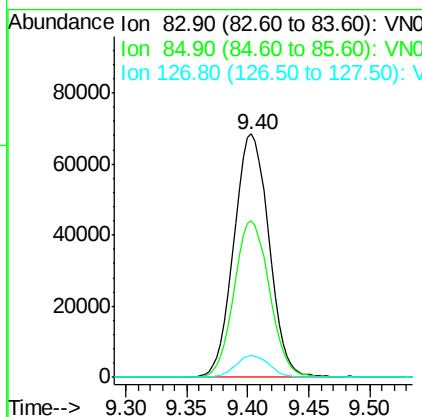
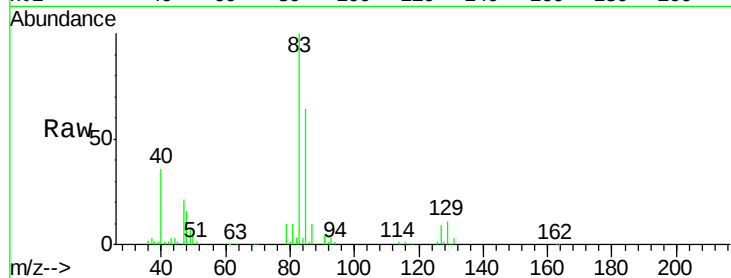
ClientSampled :

VN0323WBS01

Tot Ion:	83	Resp:	136381
Ion Ratio	Lower	Upper	
83	100		
85	64.3	52.8	79.2
127	9.0	7.4	11.2

Manual Integrations
APPROVED

MMDadoda
3/25/2019 10:23:33 AM



#48

Methyl methacrylate

Concen: 21.276 ug/l

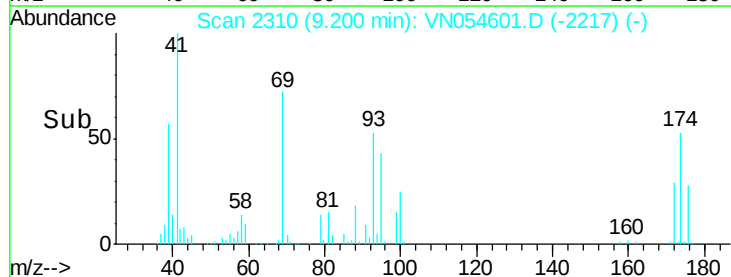
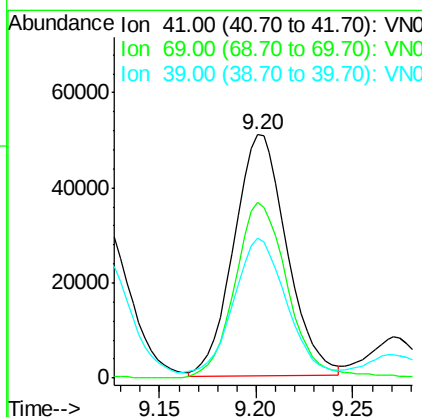
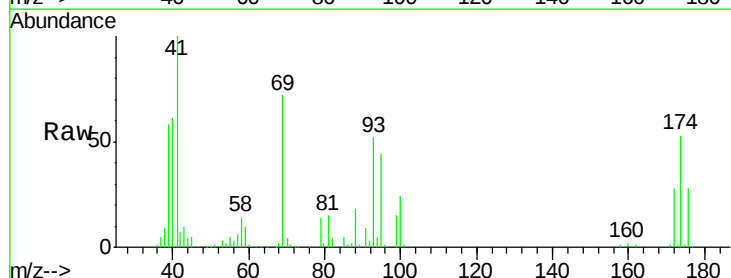
RT: 9.20 min Scan# 2310

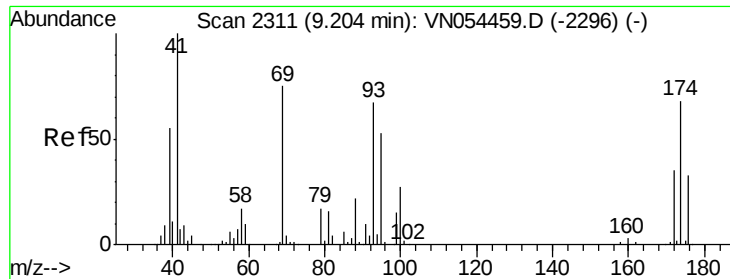
Delta R.T. -0.00 min

Lab File: VN054601.D

Acq: 23 Mar 2019 13:42

Tgt Ion:	41	Resp:	96557
Ion Ratio	Lower	Upper	
41	100		
69	73.0	72.6	108.8
39	57.5	47.5	71.3





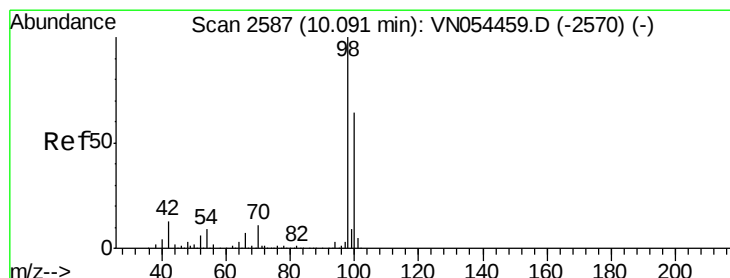
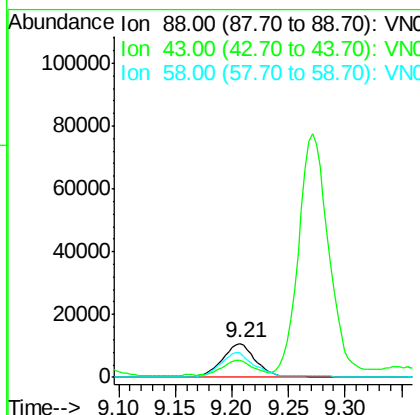
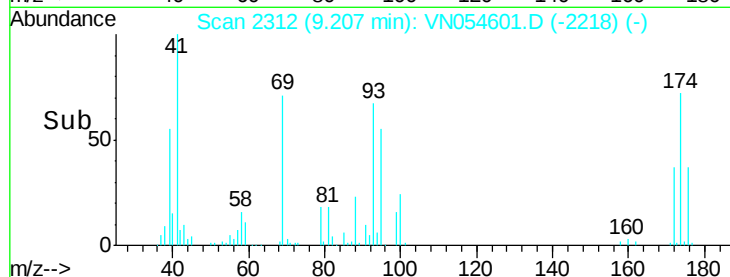
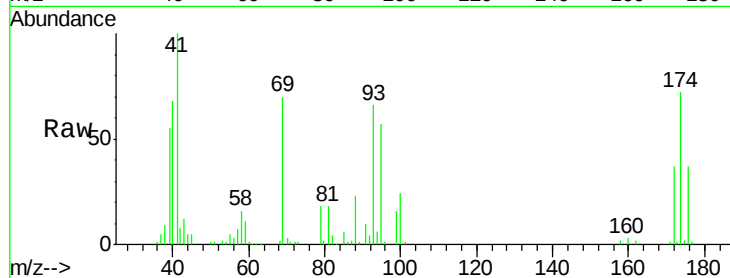
#49
1,4-Dioxane
Concen: 447.198 ug/l
RT: 9.21 min Scan# 2312
Delta R.T. 0.00 min
Lab File: VN054601.D
Acq: 23 Mar 2019 13:42

Instrument :
MSVOA_N
ClientSampleId :
VN0323WBS01

Tot Ion	88	Resp	22689
Ion	Ratio	Lower	Upper
88	100		
43	39.0	24.1	36.1#
58	72.7	50.8	76.2

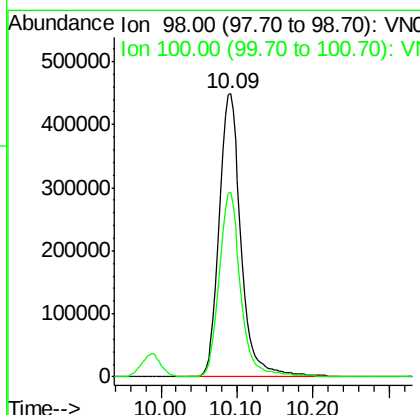
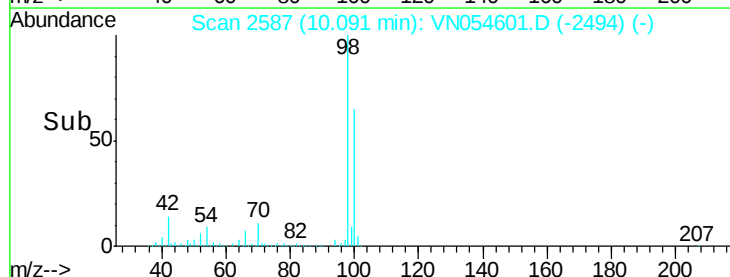
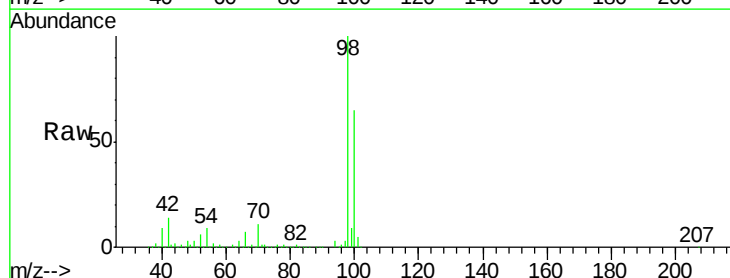
Manual Integrations
APPROVED

MMDadoda
3/25/2019 10:23:33 AM



#50
Toluene-d8
Concen: 49.894 ug/l
RT: 10.09 min Scan# 2587
Delta R.T. -0.00 min
Lab File: VN054601.D
Acq: 23 Mar 2019 13:42

Tgt Ion	98	Resp	899665
Ion	Ratio	Lower	Upper
98	100		
100	63.4	51.2	76.8





#51

4-Methyl-2-Pentanone

Concen: 116.306 ug/l

RT: 9.99 min Scan# 2555

Delta R.T. 0.00 min

Lab File: VN054601.D

Acq: 23 Mar 2019 13:42

Instrument :

MSVOA_N

ClientSampleId :

VN0323WBS01

Tot Ion: 43 Resp: 538959

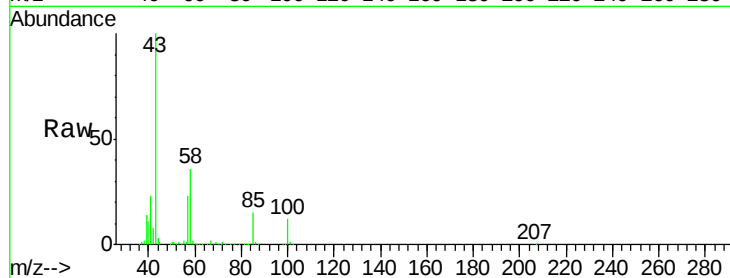
Ion Ratio Lower Upper

43 100

58 35.7 31.8 47.6

Manual Integrations
APPROVED

MMDadoda
3/25/2019 10:23:33 AM



Abundance Ion 43.00 (42.70 to 43.70): VN054459.D (-2539) (-)

Ion 58.00 (57.70 to 58.70): VN054459.D (-2539) (-)

9.99

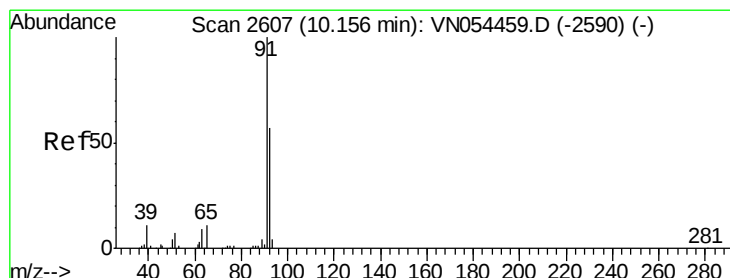
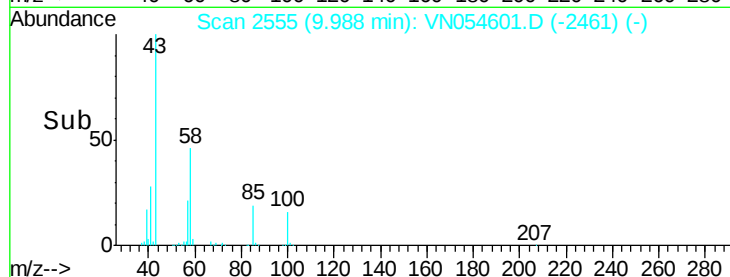
300000

200000

100000

0

Time-->



#52

Toluene

Concen: 20.106 ug/l

RT: 10.16 min Scan# 2607

Delta R.T. -0.00 min

Lab File: VN054601.D

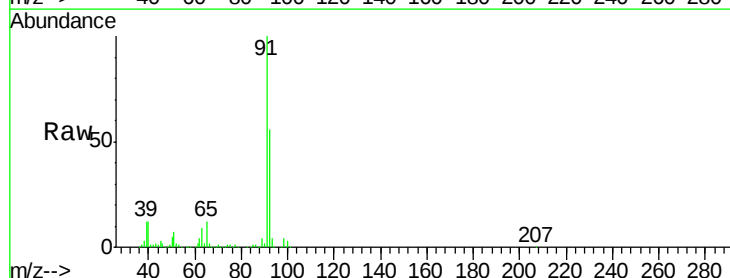
Acq: 23 Mar 2019 13:42

Tgt Ion: 92 Resp: 246155

Ion Ratio Lower Upper

92 100

91 177.2 140.7 211.1



Abundance Ion 92.00 (91.70 to 92.70): VN054459.D (-2590) (-)

Ion 91.00 (90.70 to 91.70): VN054459.D (-2590) (-)

10.16

250000

200000

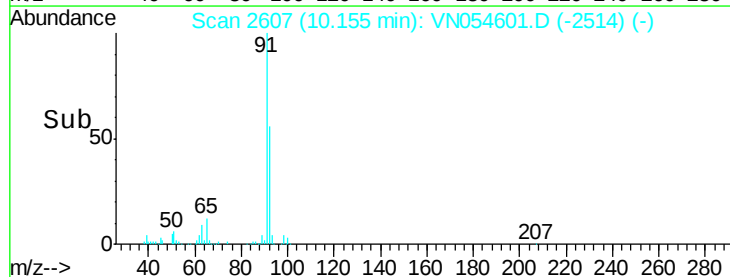
150000

100000

50000

0

Time-->





#53

t-1,3-Dichloropropene

Concen: 18.915 ug/l

RT: 10.38 min Scan# 2678

Delta R.T. 0.00 min

Lab File: VN054601.D

Acq: 23 Mar 2019 13:42

Instrument :

MSVOA_N

ClientSampleId :

VN0323WBS01

Tot Ion: 75 Resp: 121903

Ion Ratio Lower Upper

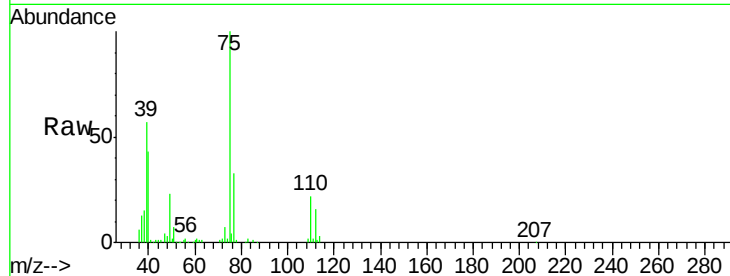
75 100

77 32.8 25.8 38.8

Manual Integrations
APPROVED

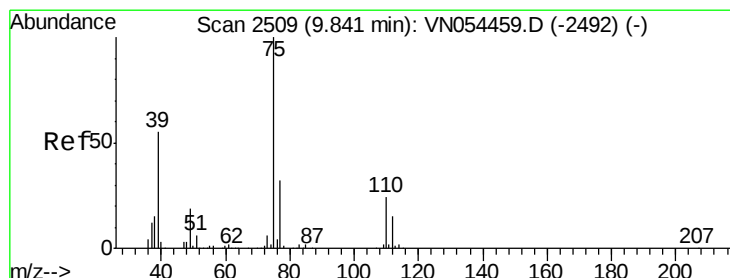
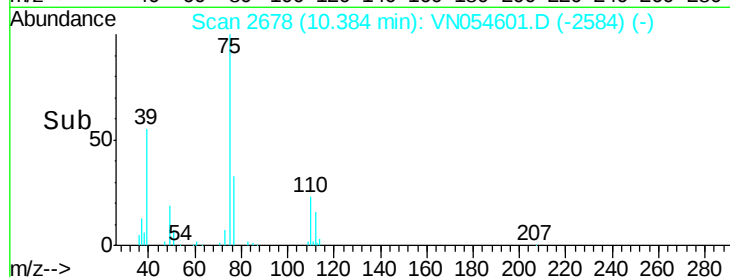
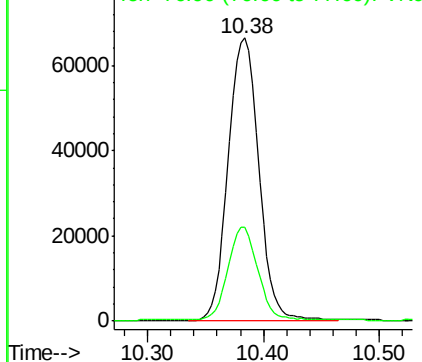
MMDadoda

3/25/2019 10:23:33 AM



Abundance Ion 74.90 (74.60 to 75.60): VNO

Ion 76.90 (76.60 to 77.60): VNO



#54

cis-1,3-Dichloropropene

Concen: 20.526 ug/l

RT: 9.84 min Scan# 2509

Delta R.T. -0.00 min

Lab File: VN054601.D

Acq: 23 Mar 2019 13:42

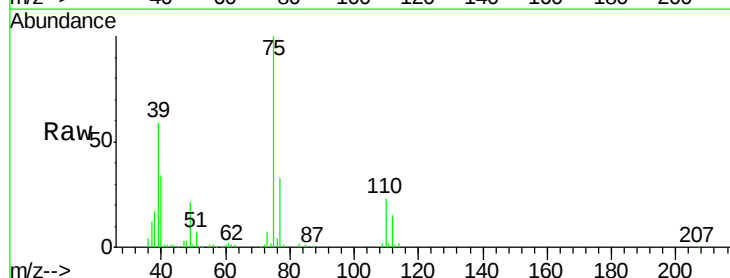
Tgt Ion: 75 Resp: 155750

Ion Ratio Lower Upper

75 100

77 32.5 25.4 38.0

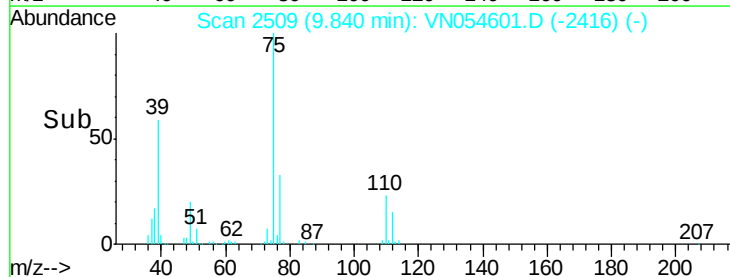
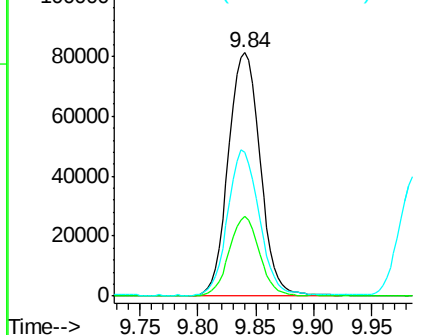
39 58.9 37.2 55.8#

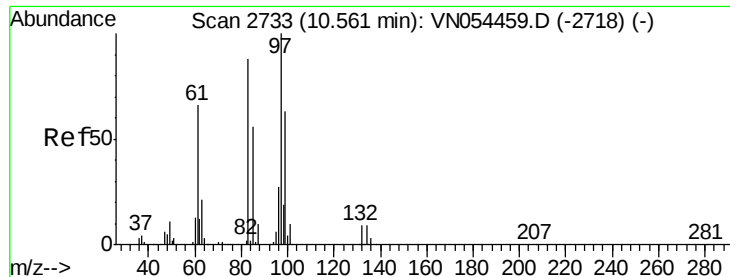


Abundance Ion 74.90 (74.60 to 75.60): VNO

Ion 76.90 (76.60 to 77.60): VNO

Ion 39.00 (38.70 to 39.70): VNO





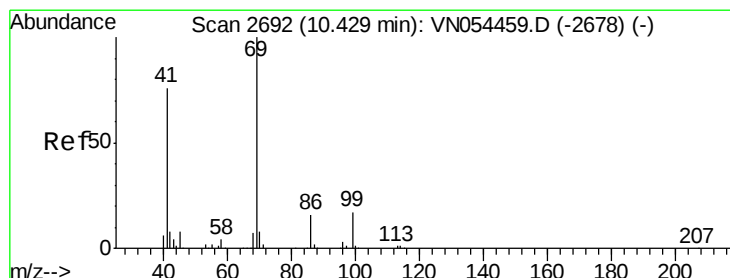
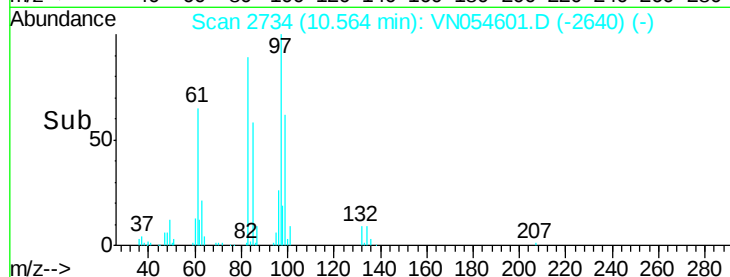
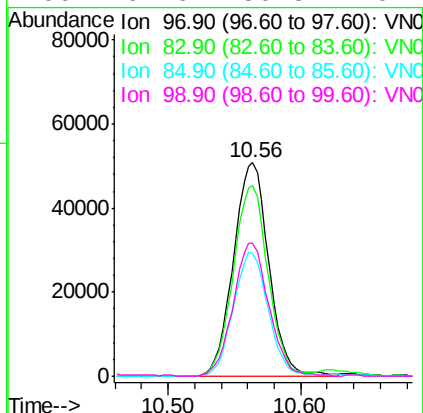
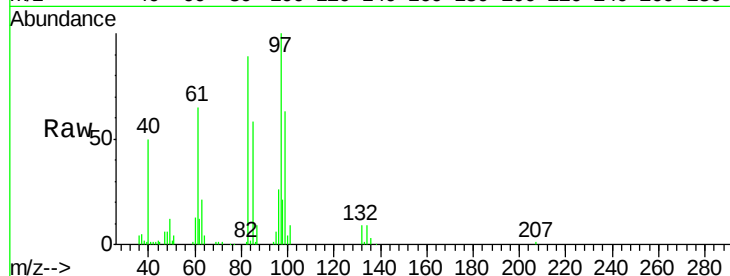
#55
 1,1,2-Trichloroethane
 Concen: 21.443 ug/l
 RT: 10.56 min Scan# 2734
 Delta R.T. 0.00 min
 Lab File: VN054601.D
 Acq: 23 Mar 2019 13:42

Instrument :
 MSVOA_N
 ClientSampleId :
 VN0323WBS01

Tot Ion:	97	Resp:	94369
Ion	Ratio	Lower	Upper
97	100		
83	89.3	66.6	100.0
85	57.8	44.4	66.6
99	62.6	50.8	76.2

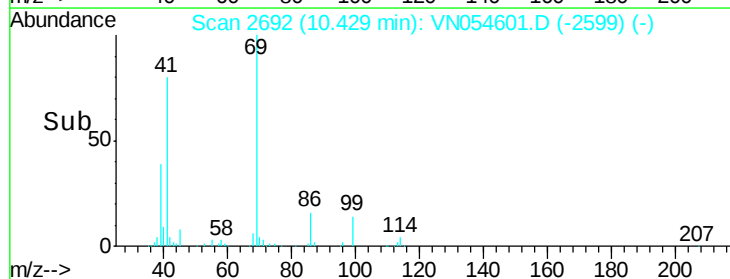
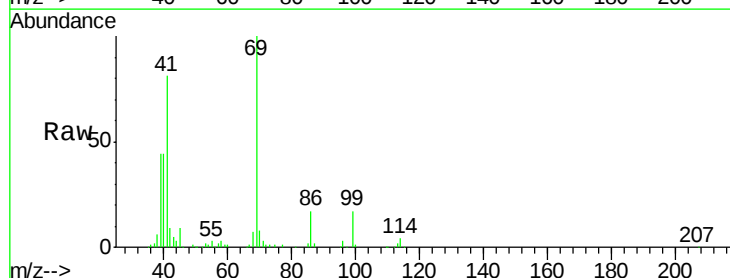
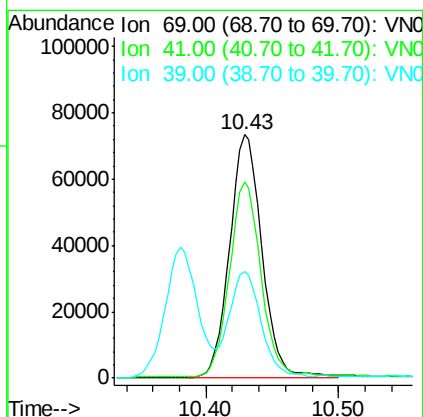
Manual Integrations
 APPROVED

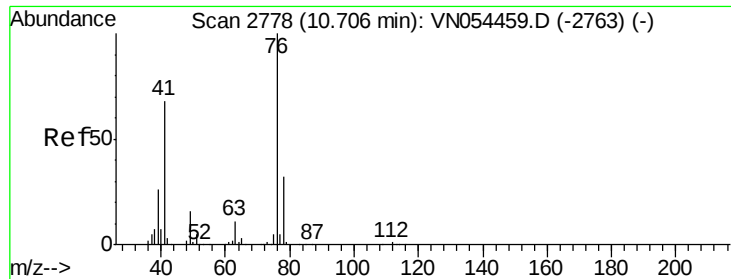
MMDadoda
 3/25/2019 10:23:33 AM



#56
 Ethyl methacrylate
 Concen: 21.142 ug/l
 RT: 10.43 min Scan# 2692
 Delta R.T. -0.00 min
 Lab File: VN054601.D
 Acq: 23 Mar 2019 13:42

Tgt Ion:	69	Resp:	124884
Ion	Ratio	Lower	Upper
69	100		
41	76.4	49.4	74.2#
39	42.6	28.3	42.5#





#57

1,3-Dichloropropane

Concen: 21.896 ug/l

RT: 10.71 min Scan# 2779

Delta R.T. 0.00 min

Lab File: VN054601.D

Acq: 23 Mar 2019 13:42

Instrument :

MSVOA_N

ClientSampled :

VN0323WBS01

Tot Ion: 76 Resp: 167506

Ion Ratio Lower Upper

76 100

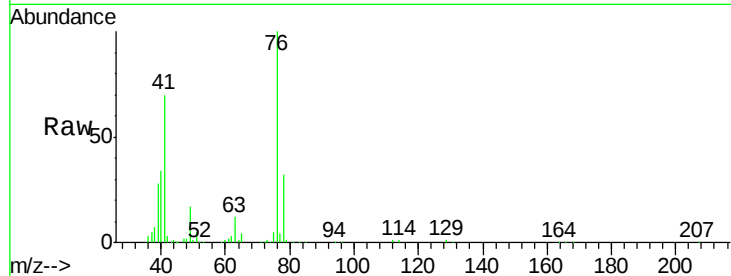
78 31.7 25.7 38.5

Manual Integrations

APPROVED

MMDadoda

3/25/2019 10:23:33 AM



Abundance Ion 75.90 (75.60 to 76.60): VN0

Ion 77.90 (77.60 to 78.60): VN0

10.71

80000

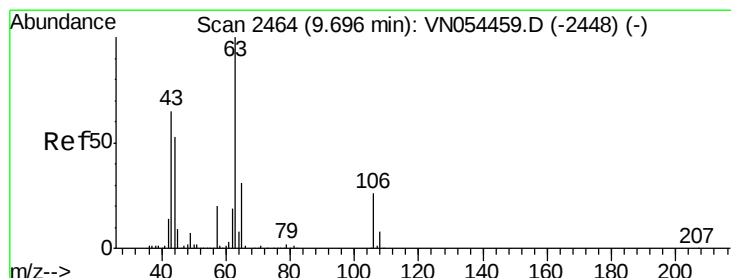
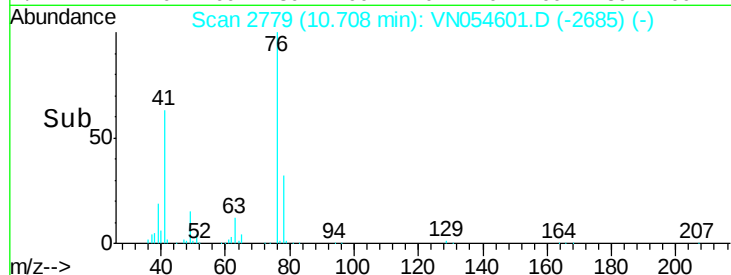
60000

40000

20000

0

Time--> 10.60 10.70 10.80



#58

2-Chloroethyl Vinyl ether

Concen: 97.116 ug/l

RT: 9.70 min Scan# 2464

Delta R.T. -0.00 min

Lab File: VN054601.D

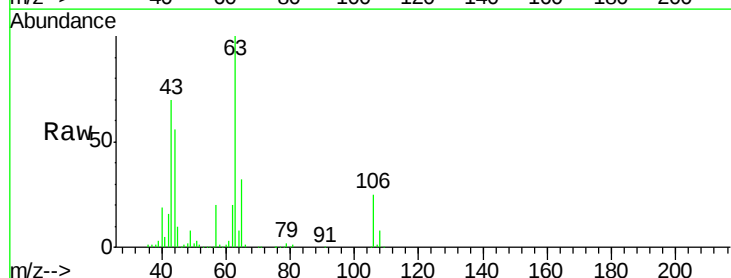
Acq: 23 Mar 2019 13:42

Tgt Ion: 63 Resp: 236218

Ion Ratio Lower Upper

63 100

106 25.1 24.4 36.6



Abundance Ion 62.90 (62.60 to 63.60): VN0

Ion 105.90 (105.60 to 106.60): V

9.70

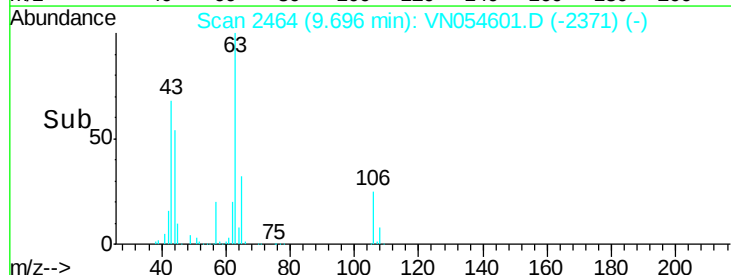
150000

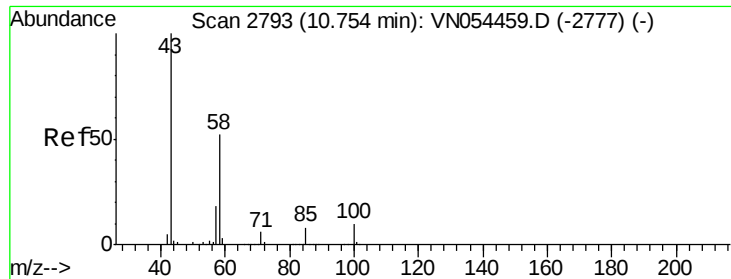
100000

50000

0

Time--> 9.60 9.65 9.70 9.75 9.80





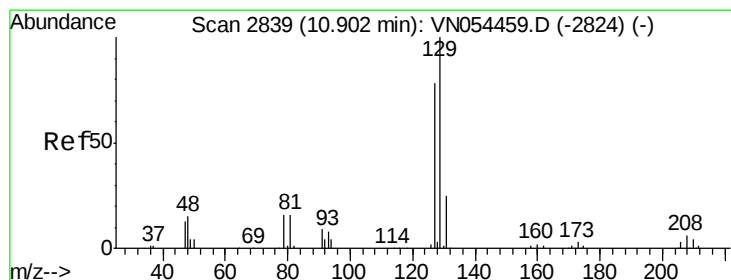
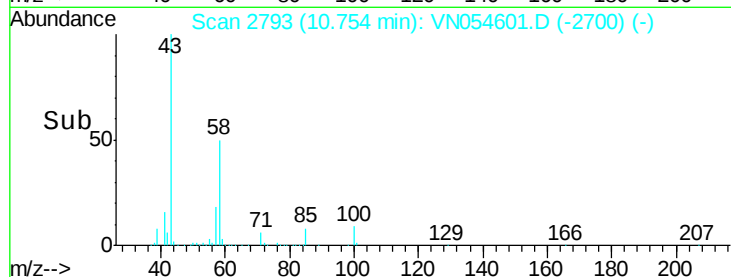
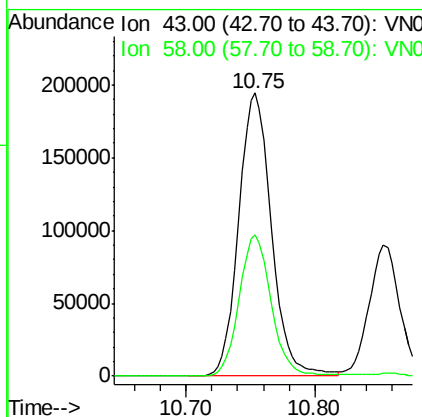
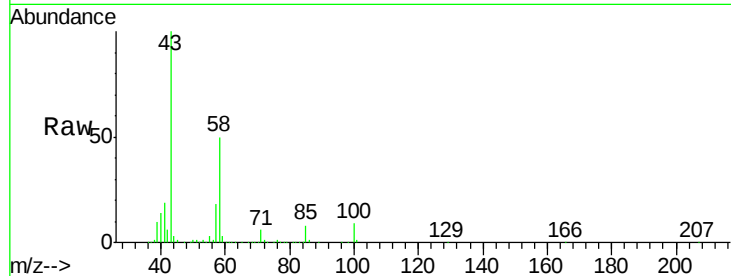
#59
2-Hexanone
Concen: 112.922 ug/l
RT: 10.75 min Scan# 2793
Delta R.T. -0.00 min
Lab File: VN054601.D
Acq: 23 Mar 2019 13:42

Instrument :
MSVOA_N
ClientSampleId :
VN0323WBS01

Tot Ion: 43 Resp: 341799
Ion Ratio Lower Upper
43 100
58 49.3 28.0 83.9

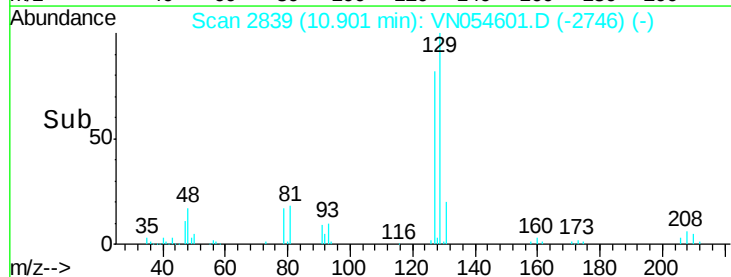
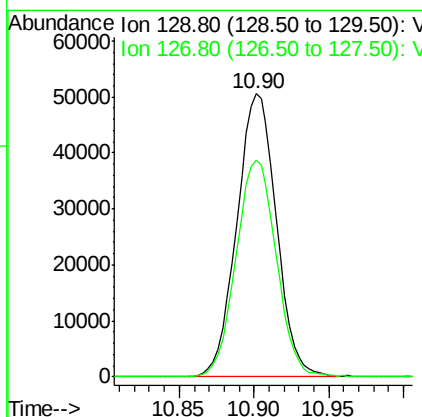
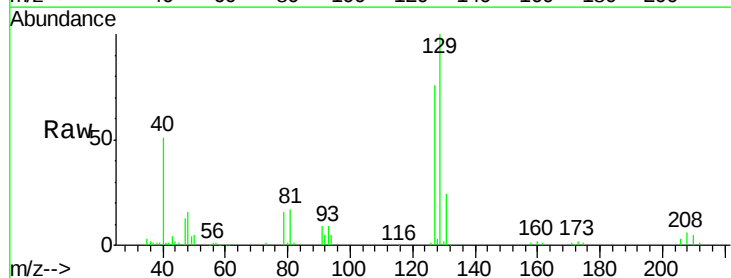
Manual Integrations
APPROVED

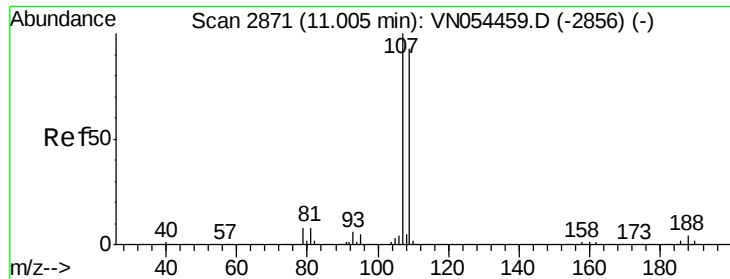
MMDadoda
3/25/2019 10:23:33 AM



#60
Dibromochloromethane
Concen: 19.868 ug/l
RT: 10.90 min Scan# 2839
Delta R.T. -0.00 min
Lab File: VN054601.D
Acq: 23 Mar 2019 13:42

Tgt Ion: 129 Resp: 93039
Ion Ratio Lower Upper
129 100
127 78.0 38.6 115.8





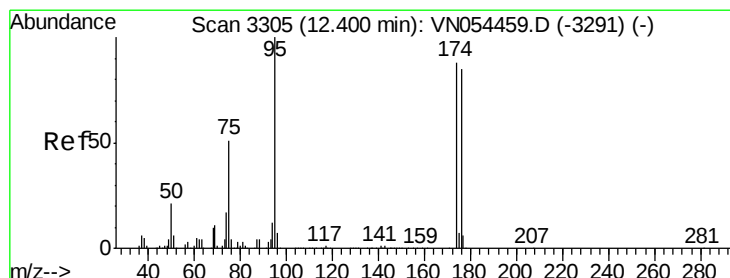
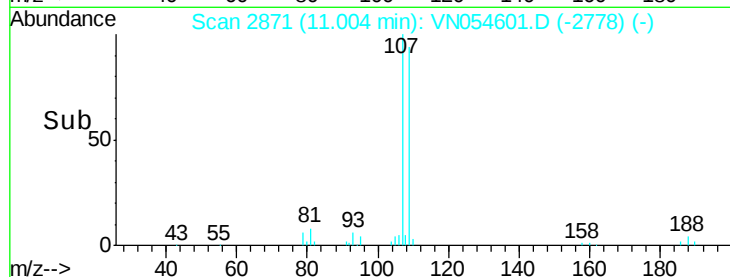
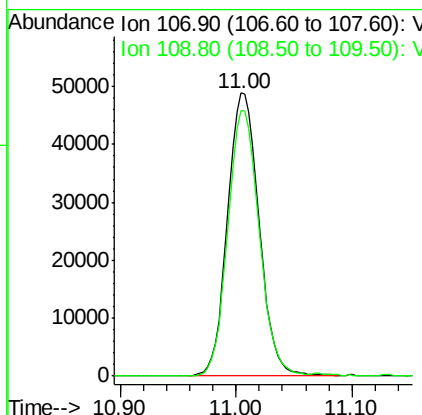
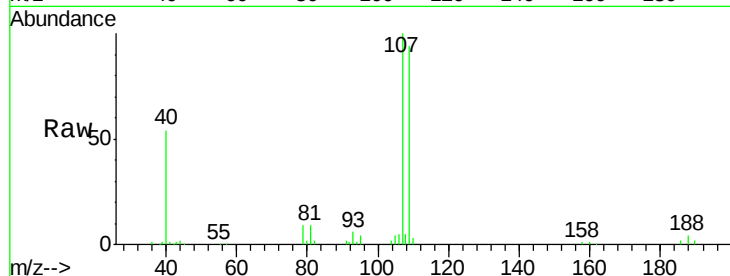
#61
 1,2-Dibromoethane
 Concen: 21.113 ug/l
 RT: 11.00 min Scan# 2871
 Delta R.T. -0.00 min
 Lab File: VN054601.D
 Acq: 23 Mar 2019 13:42

Instrument :
 MSVOA_N
 ClientSampleId :
 VN0323WBS01

Tot Ion:107 Resp: 91860
 Ion Ratio Lower Upper
 107 100
 109 93.1 75.9 113.9

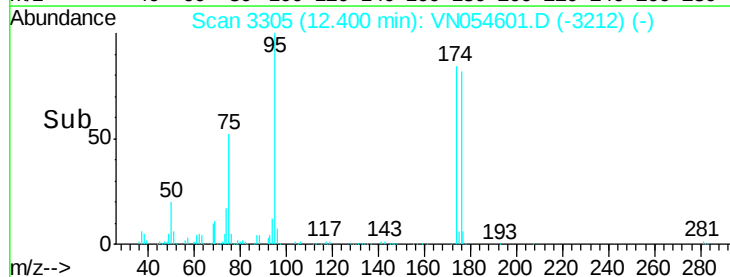
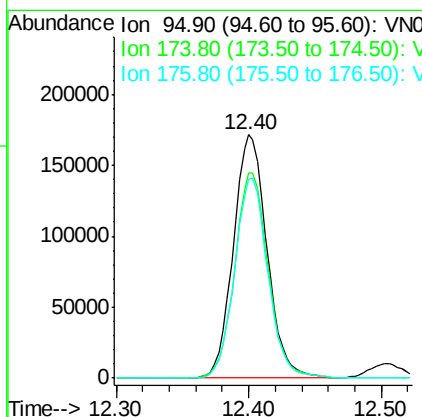
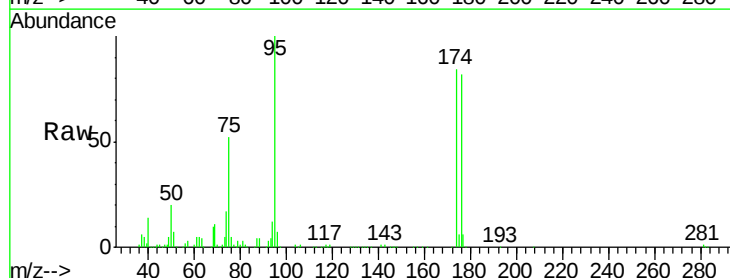
Manual Integrations
 APPROVED

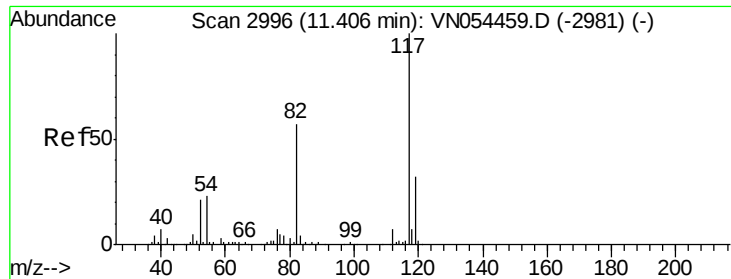
MMDadoda
 3/25/2019 10:23:33 AM



#62
 4-Bromofluorobenzene
 Concen: 49.172 ug/l
 RT: 12.40 min Scan# 3305
 Delta R.T. -0.00 min
 Lab File: VN054601.D
 Acq: 23 Mar 2019 13:42

Tgt Ion: 95 Resp: 301714
 Ion Ratio Lower Upper
 95 100
 174 84.2 0.0 191.0
 176 81.5 0.0 187.4





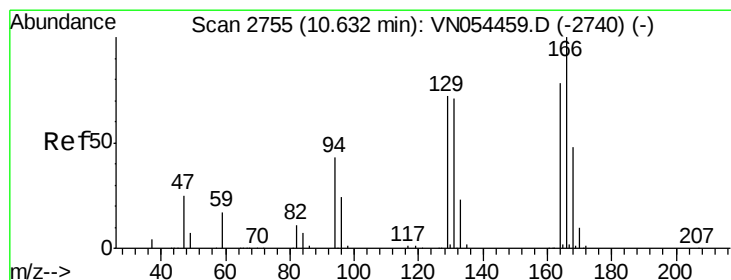
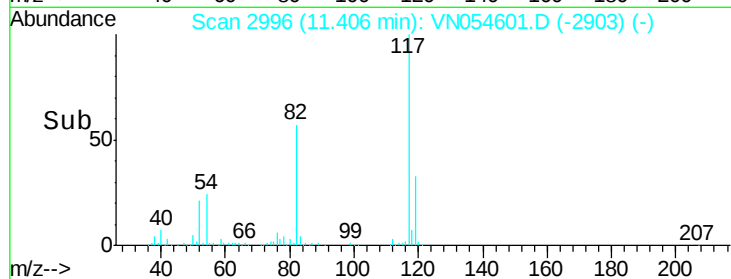
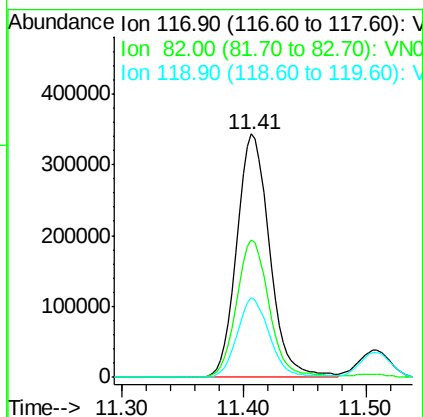
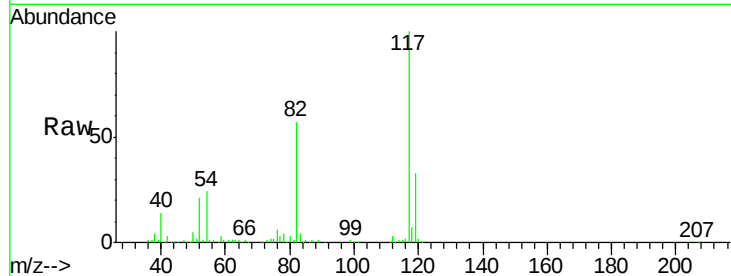
#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.41 min Scan# 2996
Delta R.T. -0.00 min
Lab File: VN054601.D
Acq: 23 Mar 2019 13:42

Instrument :
MSVOA_N
ClientSampleId :
VN0323WBS01

Tot Ion	Ratio	Resp	Lower	Upper
117	100	638627		
82	56.6		40.0	60.0
119	32.6		25.8	38.6

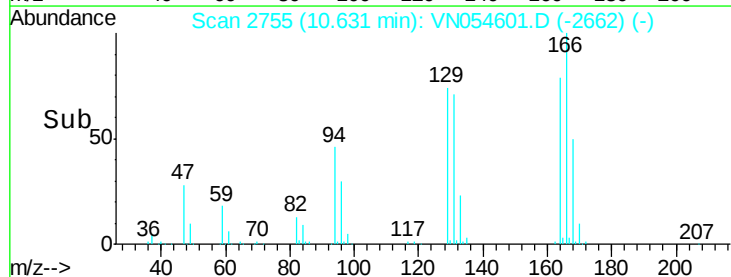
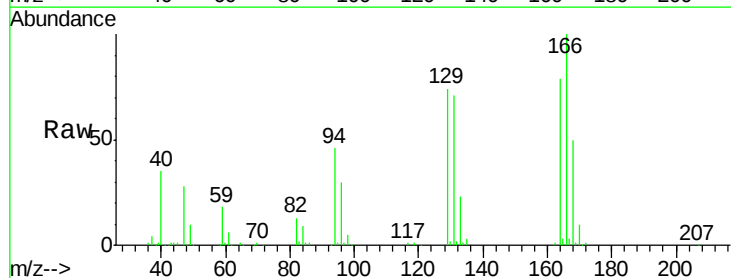
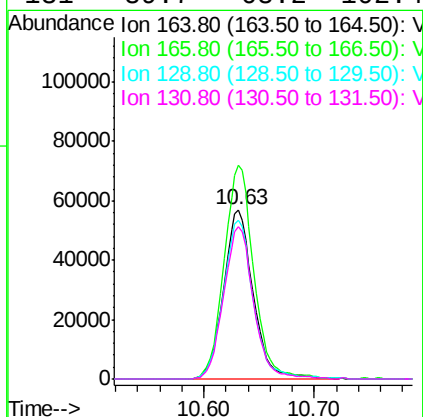
Manual Integrations
APPROVED

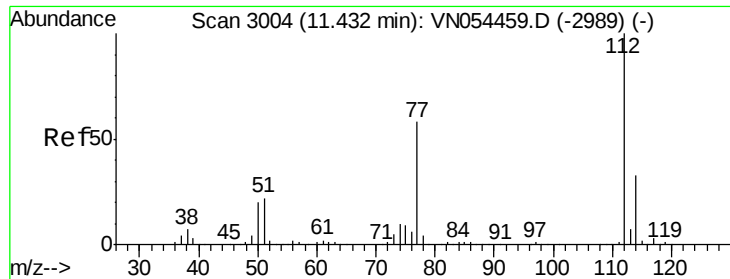
MMDadoda
3/25/2019 10:23:33 AM



#64
Tetrachloroethene
Concen: 20.052 ug/l
RT: 10.63 min Scan# 2755
Delta R.T. -0.00 min
Lab File: VN054601.D
Acq: 23 Mar 2019 13:42

Tgt Ion	Ratio	Resp	Lower	Upper
164	100	106220		
166	126.0		103.9	155.9
129	93.8		71.1	106.7
131	89.7		68.2	102.4





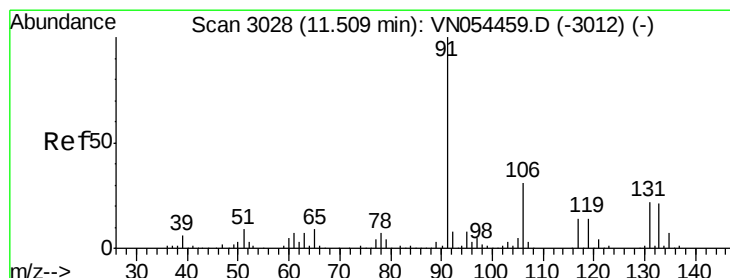
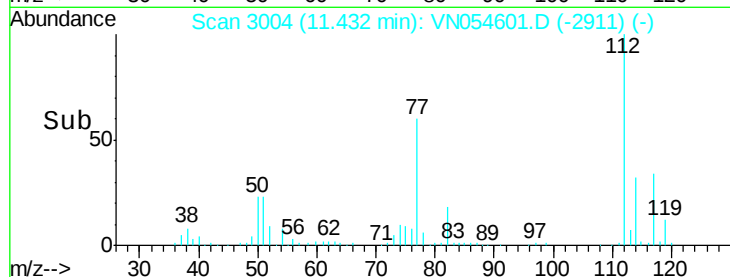
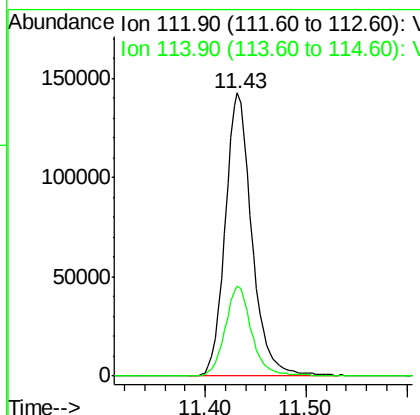
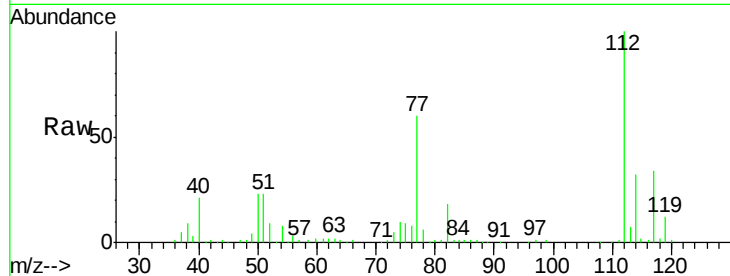
#65
Chlorobenzene
Concen: 20.305 ug/l
RT: 11.43 min Scan# 3004
Delta R.T. -0.00 min
Lab File: VN054601.D
Acq: 23 Mar 2019 13:42

Instrument :
MSVOA_N
ClientSampleId :
VN0323WBS01

Tot Ion:112 Resp: 263741
Ion Ratio Lower Upper
112 100
114 31.9 25.9 38.9

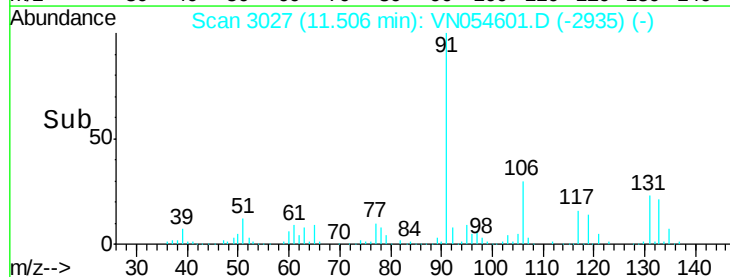
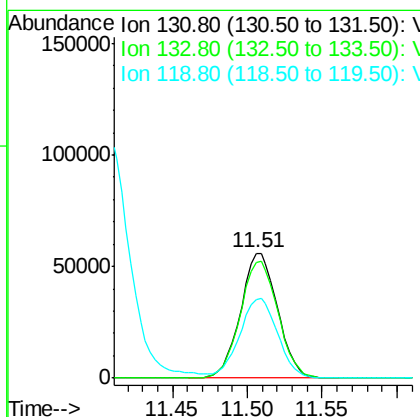
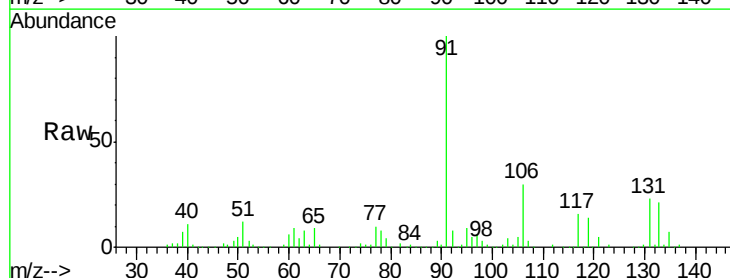
Manual Integrations
APPROVED

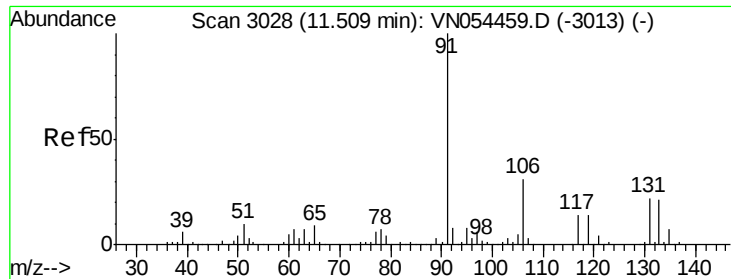
MMDadoda
3/25/2019 10:23:33 AM



#66
1,1,1,2-Tetrachloroethane
Concen: 20.655 ug/l
RT: 11.51 min Scan# 3027
Delta R.T. -0.00 min
Lab File: VN054601.D
Acq: 23 Mar 2019 13:42

Tgt Ion:131 Resp: 96295
Ion Ratio Lower Upper
131 100
133 95.4 47.6 142.9
119 65.8 32.4 97.0





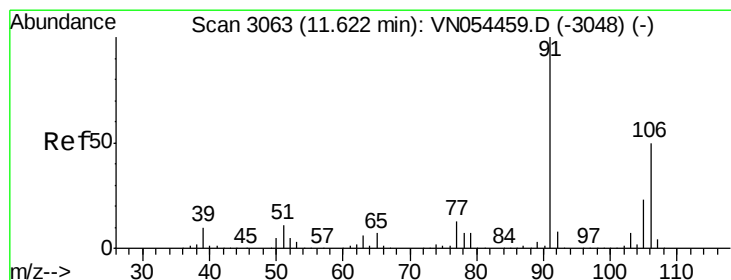
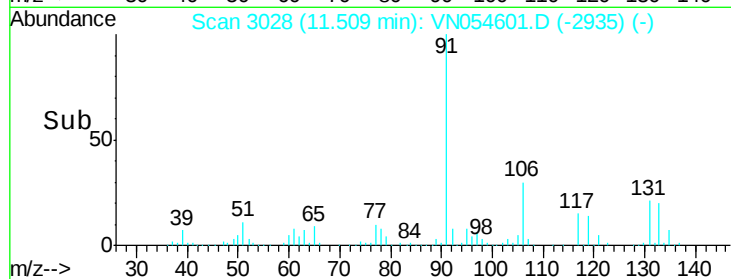
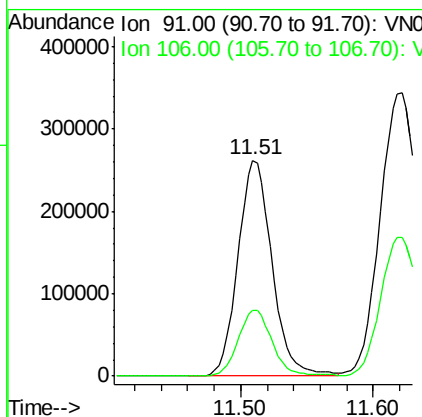
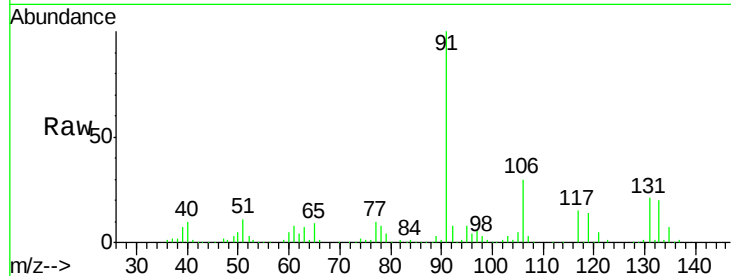
#67
Ethyl Benzene
Concen: 20.391 ug/l
RT: 11.51 min Scan# 3028
Delta R.T. -0.00 min
Lab File: VN054601.D
Acq: 23 Mar 2019 13:42

Instrument :
MSVOA_N
ClientSampleId :
VN0323WBS01

Tot Ion: 91 Resp: 467857
Ion Ratio Lower Upper
91 100
106 30.5 25.5 38.3

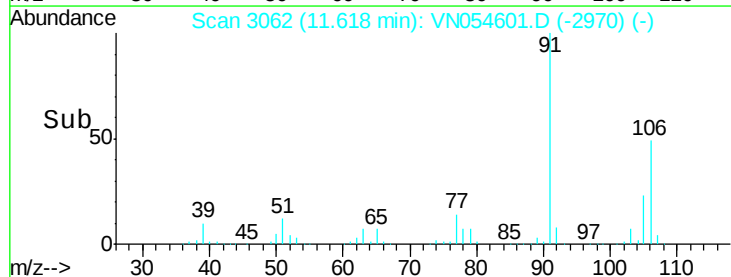
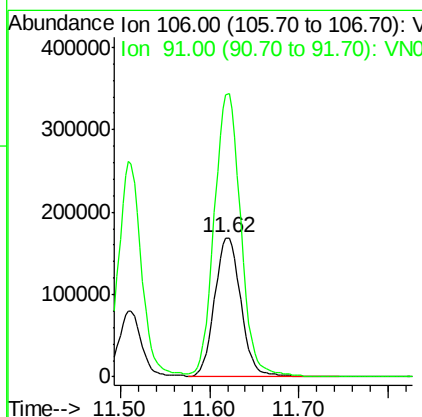
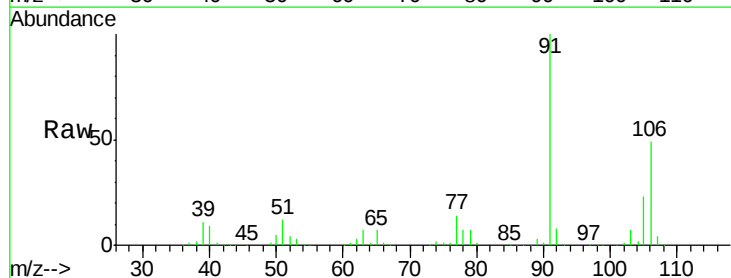
Manual Integrations
APPROVED

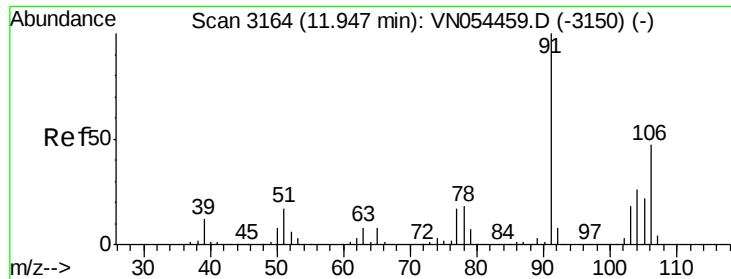
MMDadoda
3/25/2019 10:23:33 AM



#68
m/p-Xylenes
Concen: 39.766 ug/l
RT: 11.62 min Scan# 3062
Delta R.T. -0.00 min
Lab File: VN054601.D
Acq: 23 Mar 2019 13:42

Tgt Ion: 106 Resp: 345588
Ion Ratio Lower Upper
106 100
91 205.7 159.4 239.2





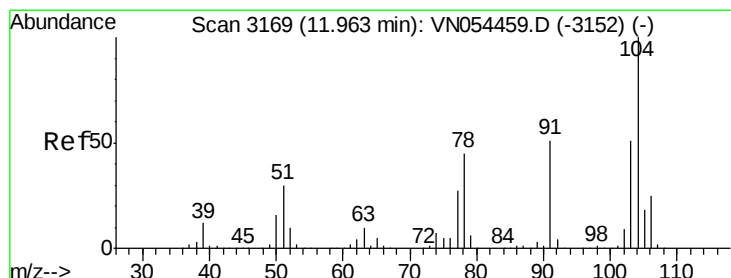
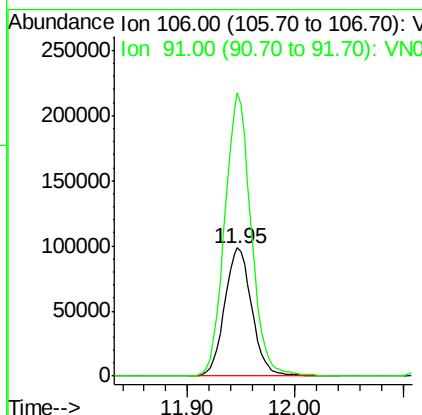
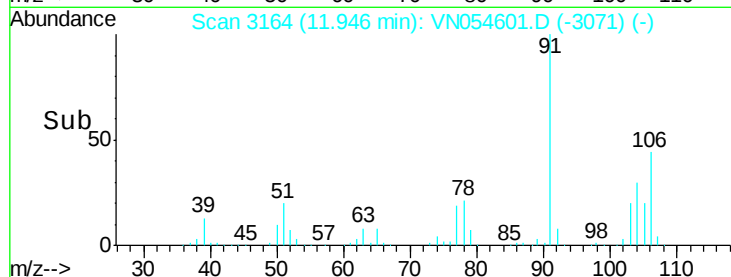
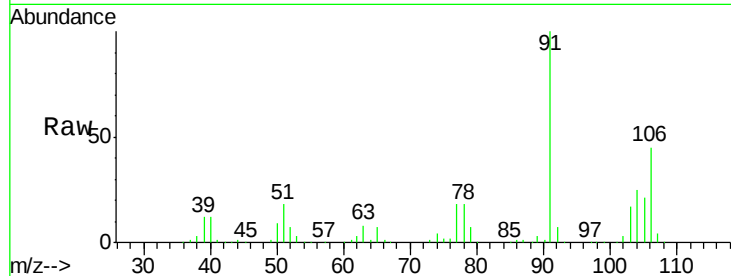
#69
o-Xylene
Concen: 20.341 ug/l
RT: 11.95 min Scan# 3164
Delta R.T. -0.00 min
Lab File: VN054601.D
Acq: 23 Mar 2019 13:42

Instrument :
MSVOA_N
ClientSampleId :
VN0323WBS01

Tot Ion:106 Resp: 172642
Ion Ratio Lower Upper
106 100
91 214.7 105.7 317.1

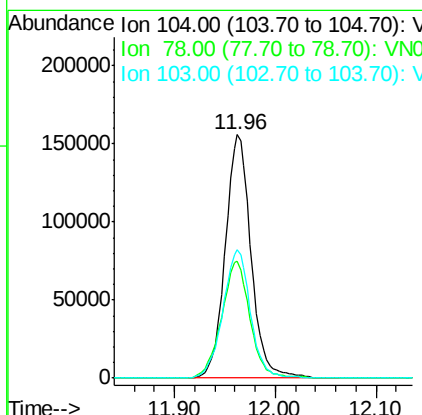
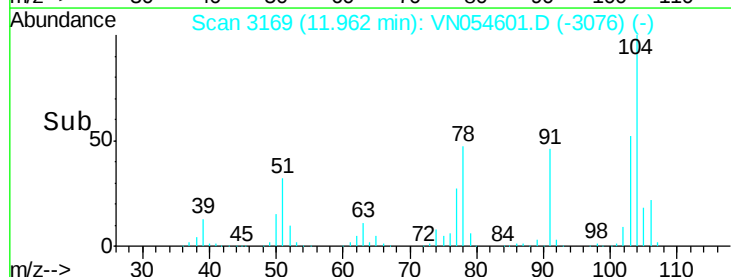
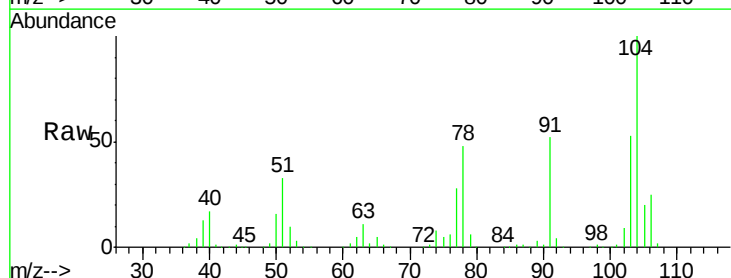
Manual Integrations
APPROVED

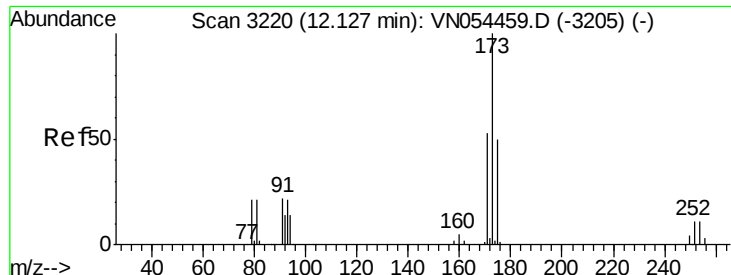
MMDadoda
3/25/2019 10:23:33 AM



#70
Styrene
Concen: 20.152 ug/l
RT: 11.96 min Scan# 3169
Delta R.T. -0.00 min
Lab File: VN054601.D
Acq: 23 Mar 2019 13:42

Tgt Ion:104 Resp: 277751
Ion Ratio Lower Upper
104 100
78 53.0 38.2 57.2
103 56.4 44.4 66.6





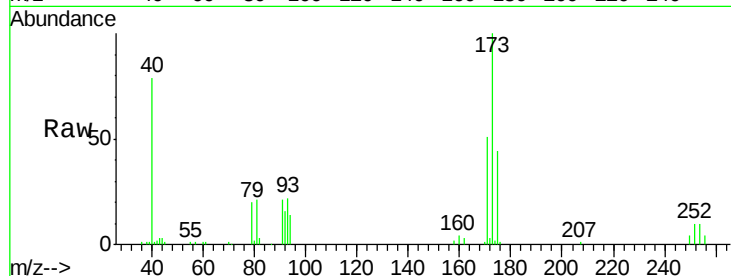
#71
Bromoform
Concen: 18.407 ug/l
RT: 12.13 min Scan# 3220
Delta R.T. 0.00 min
Lab File: VN054601.D
Acq: 23 Mar 2019 13:42

Instrument :
MSVOA_N
ClientSampleId :
VN0323WBS01

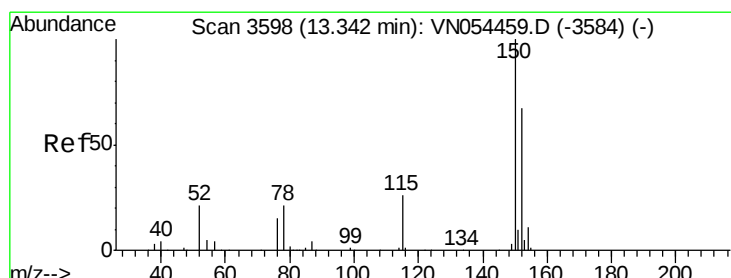
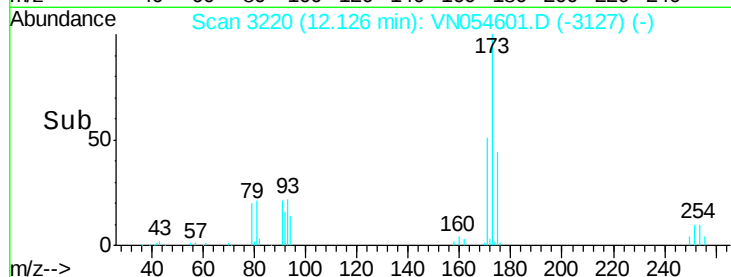
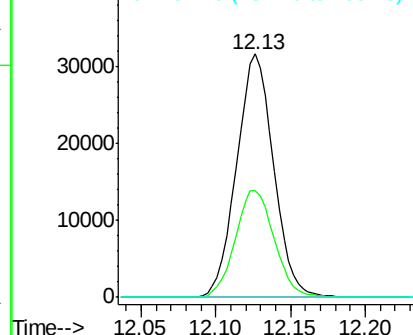
Tot Ion	Ratio	Lower	Upper
173	100		
175	46.1	24.4	73.2
254	0.0	0.1	0.1#

Manual Integrations
APPROVED

MMDadoda
3/25/2019 10:23:33 AM

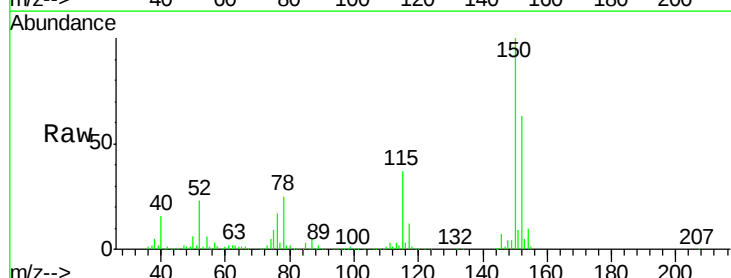


Abundance Ion 172.70 (172.40 to 173.40): V
Ion 174.70 (174.40 to 175.40): V
Ion 254.40 (254.10 to 255.10): V

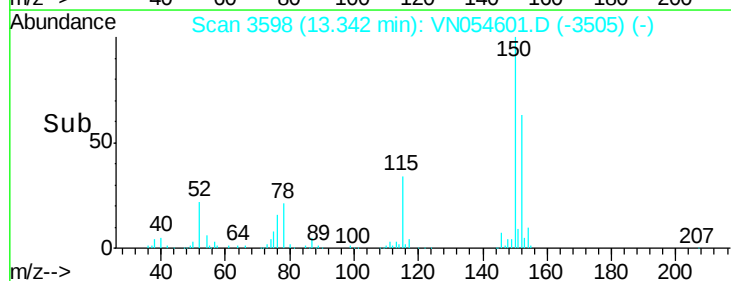
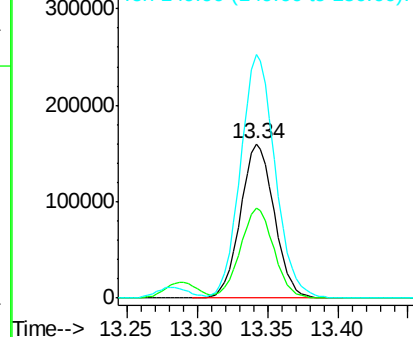


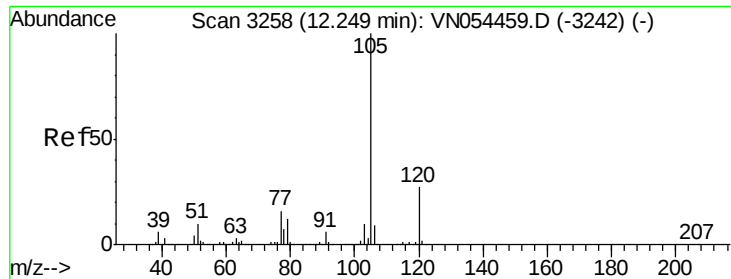
#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 13.34 min Scan# 3598
Delta R.T. -0.00 min
Lab File: VN054601.D
Acq: 23 Mar 2019 13:42

Tgt Ion	Ratio	Lower	Upper
152	100		
115	58.1	27.2	81.6
150	162.2	0.0	349.2



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





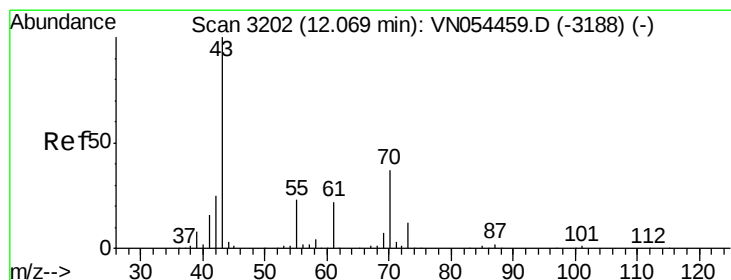
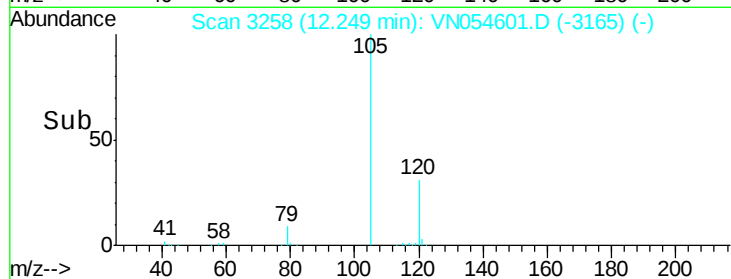
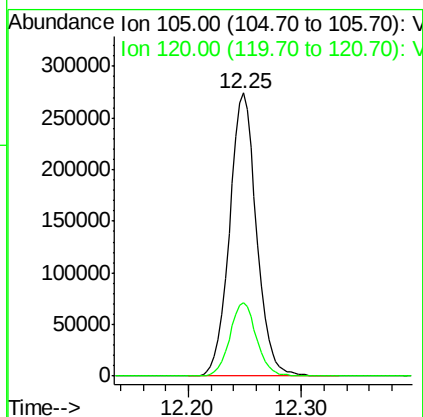
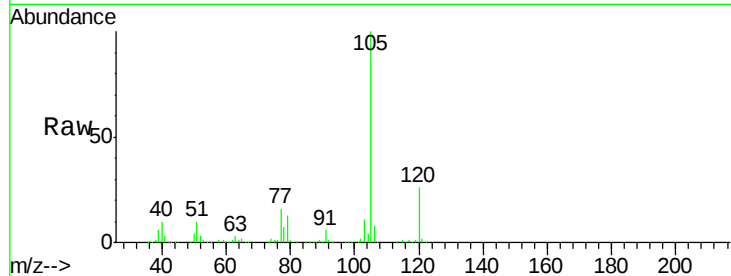
#73
Isopropylbenzene
Concen: 21.055 ug/l
RT: 12.25 min Scan# 3258
Delta R.T. -0.00 min
Lab File: VN054601.D
Acq: 23 Mar 2019 13:42

Instrument :
MSVOA_N
ClientSampleId :
VN0323WBS01

Tot Ion	Ratio	Lower	Upper
105	100		
120	25.8	13.8	41.3

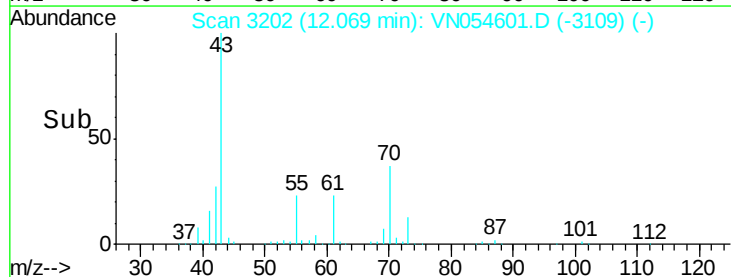
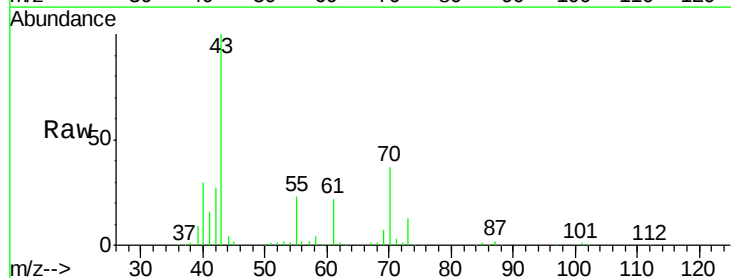
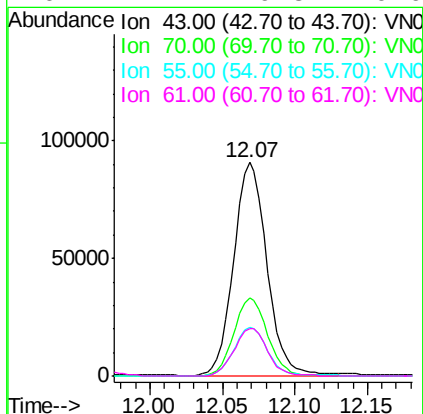
Manual Integrations
APPROVED

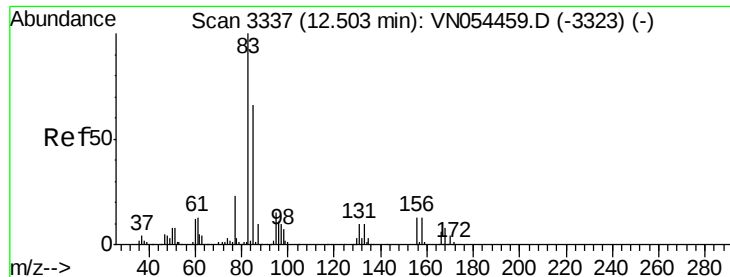
MMDadoda
3/25/2019 10:23:33 AM



#74
N-ethyl acetate
Concen: 23.291 ug/l
RT: 12.07 min Scan# 3202
Delta R.T. -0.00 min
Lab File: VN054601.D
Acq: 23 Mar 2019 13:42

Tgt Ion	Ratio	Lower	Upper
43	100		
70	37.5	35.4	53.0
55	23.0	19.8	29.6
61	22.7	19.8	29.6





#75

1,1,2,2-Tetrachloroethane

Concen: 22.957 ug/l

RT: 12.50 min Scan# 3337

Delta R.T. -0.00 min

Lab File: VN054601.D

Acq: 23 Mar 2019 13:42

Instrument :

MSVOA_N

ClientSampleId :

VN0323WBS01

Tot Ion: 83 Resp: 112922

Ion Ratio Lower Upper

83 100

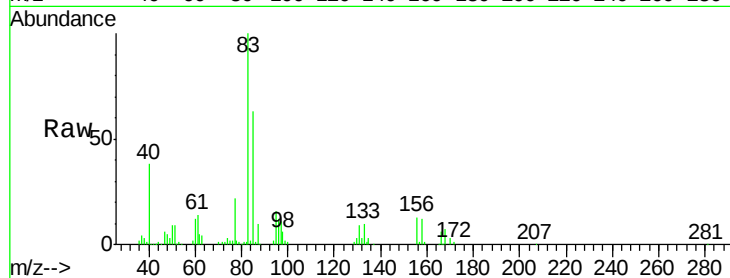
131 9.7 5.8 17.4

85 64.6 32.2 96.6

Manual Integrations
APPROVED

MMDadoda

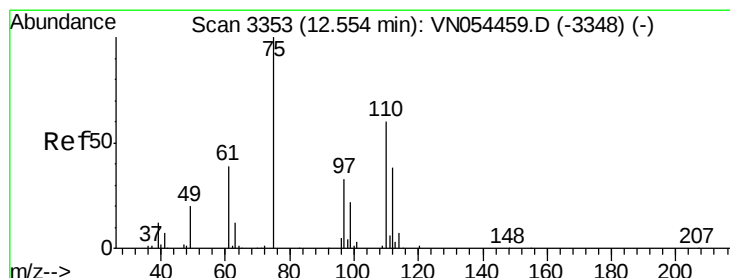
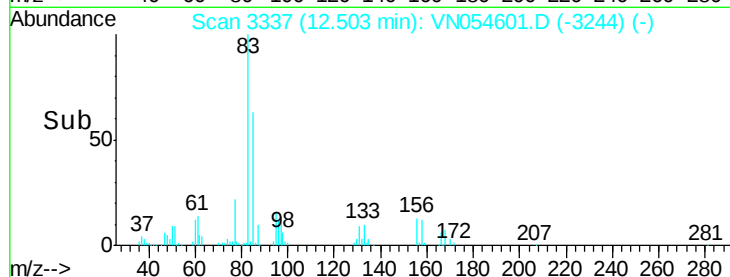
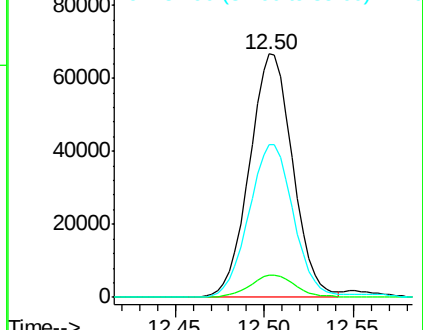
3/25/2019 10:23:33 AM



Abundance Ion 82.90 (82.60 to 83.60): VN0

Ion 130.80 (130.50 to 131.50): VN0

Ion 84.90 (84.60 to 85.60): VN0



#76

1,2,3-Trichloropropane

Concen: 23.211 ug/l m

RT: 12.55 min Scan# 3353

Delta R.T. -0.00 min

Lab File: VN054601.D

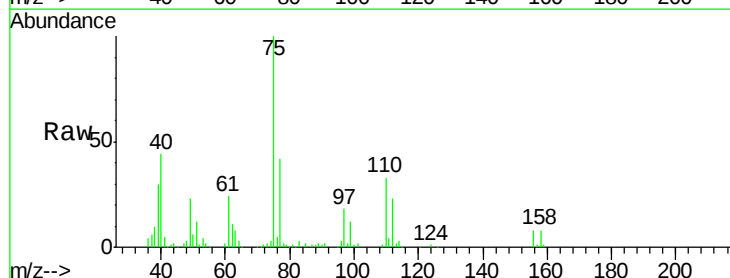
Acq: 23 Mar 2019 13:42

Tgt Ion: 75 Resp: 98489

Ion Ratio Lower Upper

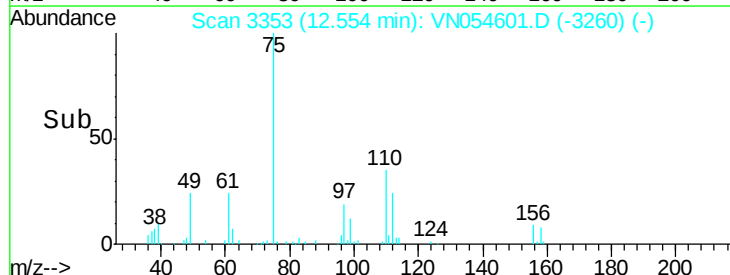
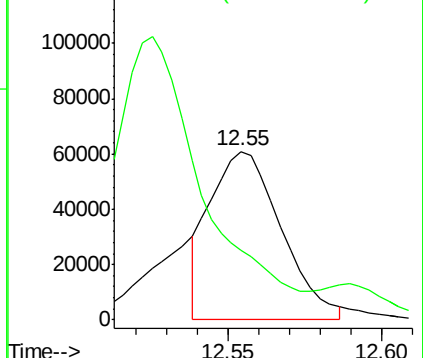
75 100

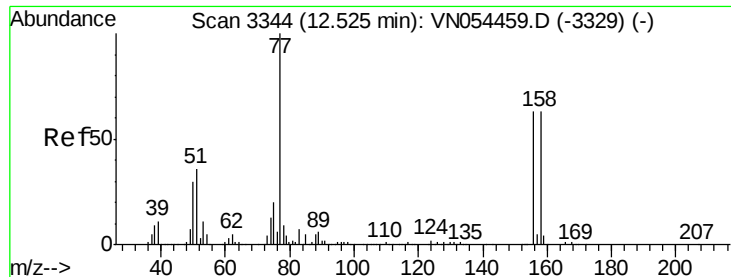
77 0.0 0.0 0.0



Abundance Ion 74.90 (74.60 to 75.60): VN0

Ion 77.00 (76.70 to 77.70): VN0





#77

Bromobenzene

Concen: 20.791 ug/l

RT: 12.53 min Scan# 3344

Delta R.T. -0.00 min

Lab File: VN054601.D

Acq: 23 Mar 2019 13:42

Instrument :

MSVOA_N

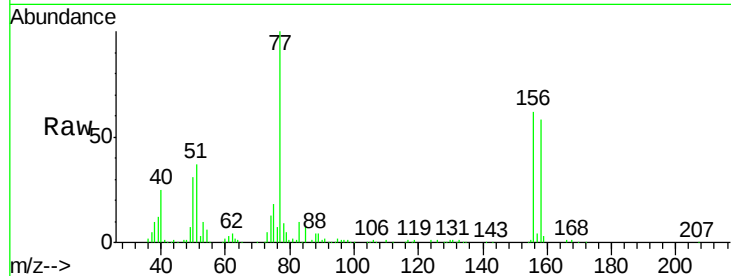
ClientSampled :

VN0323WBS01

Tot Ion:	156	Resp:	111109
Ion Ratio	Lower	Upper	
156	100		
77	191.2	81.5	244.4
158	94.8	49.0	147.2

Manual Integrations
APPROVED

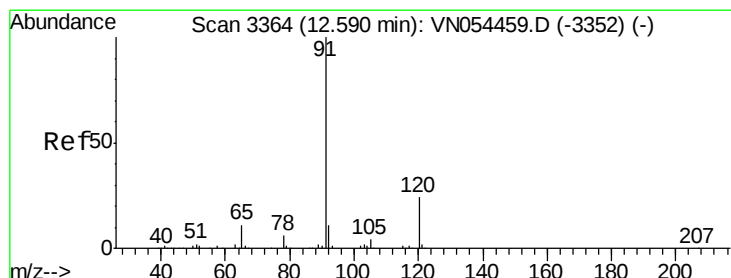
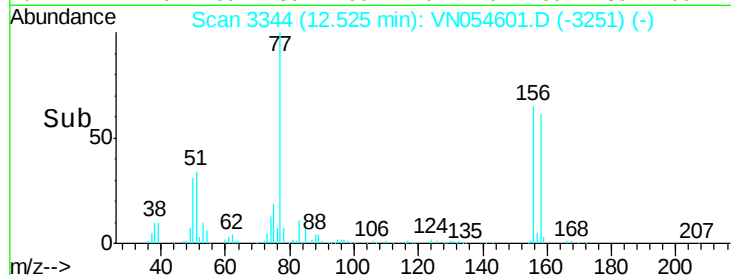
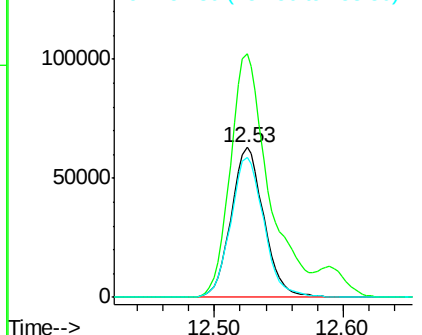
MMDadoda
3/25/2019 10:23:33 AM



Abundance Ion 155.80 (155.50 to 156.50): V

Ion 77.00 (76.70 to 77.70): VN0

Ion 157.80 (157.50 to 158.50): V



#78

n-propylbenzene

Concen: 20.721 ug/l

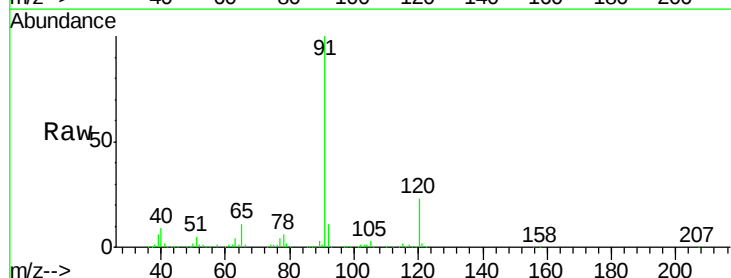
RT: 12.59 min Scan# 3364

Delta R.T. -0.00 min

Lab File: VN054601.D

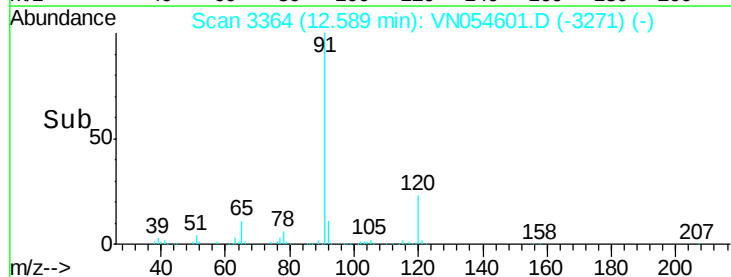
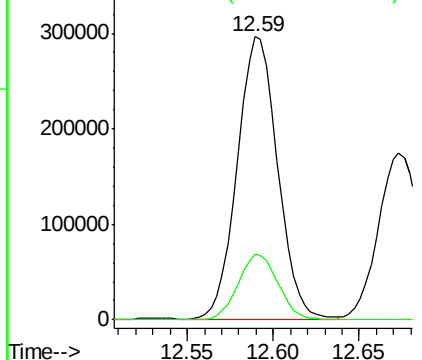
Acq: 23 Mar 2019 13:42

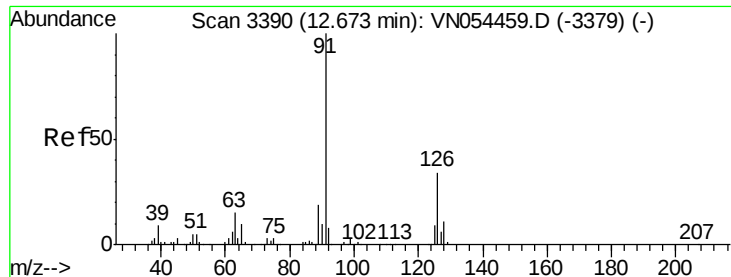
Tgt Ion:	91	Resp:	484148
Ion Ratio	Lower	Upper	
91	100		
120	23.0	12.3	36.9



Abundance Ion 91.00 (90.70 to 91.70): VN0

Ion 120.00 (119.70 to 120.70): V





#79

2-Chlorotoluene

Concen: 20.973 ug/l

RT: 12.67 min Scan# 3390

Delta R.T. -0.00 min

Lab File: VN054601.D

Acq: 23 Mar 2019 13:42

Instrument :

MSVOA_N

ClientSampleId :

VN0323WBS01

Tot Ion: 91 Resp: 305586

Ion Ratio Lower Upper

91 100

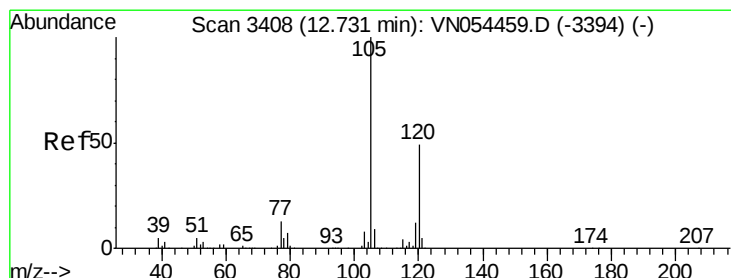
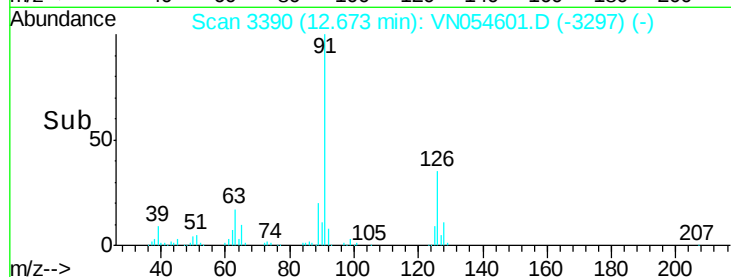
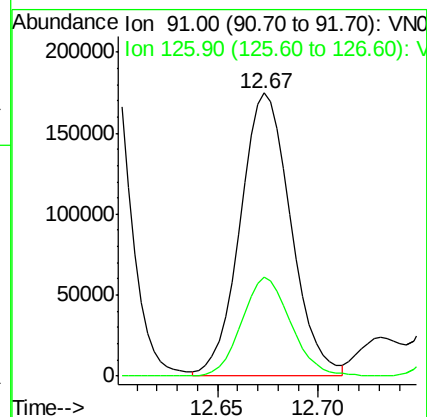
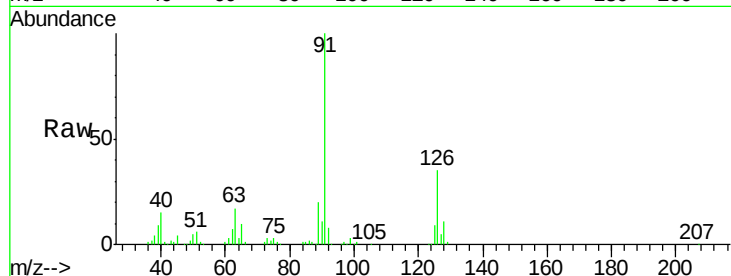
126 34.0 18.7 56.1

Manual Integrations

APPROVED

MMDadoda

3/25/2019 10:23:33 AM



#80

1,3,5-Trimethylbenzene

Concen: 20.784 ug/l

RT: 12.73 min Scan# 3408

Delta R.T. -0.00 min

Lab File: VN054601.D

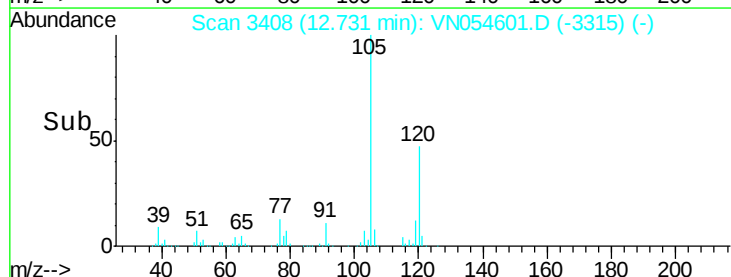
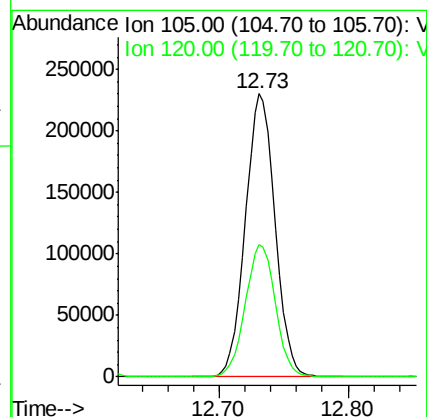
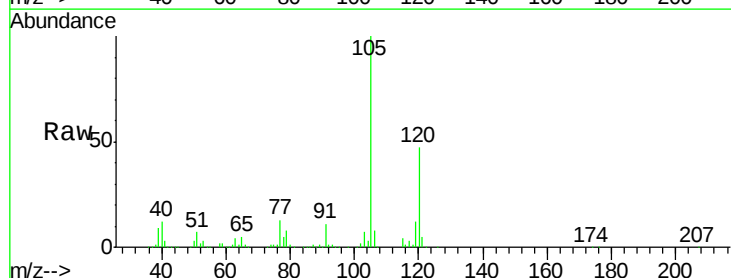
Acq: 23 Mar 2019 13:42

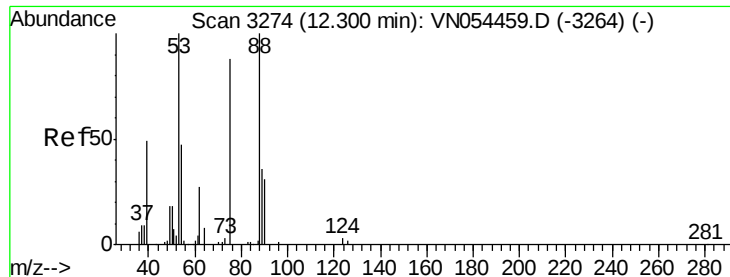
Tgt Ion: 105 Resp: 367051

Ion Ratio Lower Upper

105 100

120 47.7 25.0 75.0





#81

trans-1,4-Dichloro-2-butene

Concen: 19.195 ug/l

RT: 12.30 min Scan# 3274

Delta R.T. 0.00 min

Lab File: VN054601.D

Acq: 23 Mar 2019 13:42

Instrument :

MSVOA_N

ClientSampleId :

VN0323WBS01

Tot Ion: 75 Resp: 21058

Ion Ratio Lower Upper

75 100

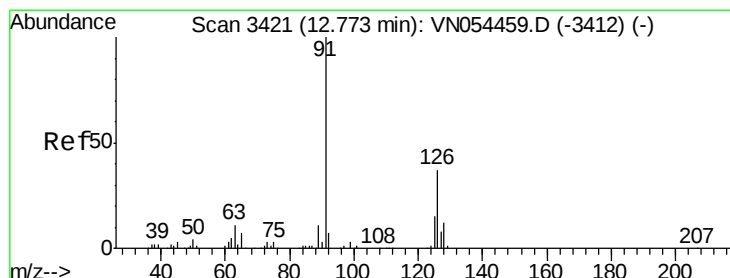
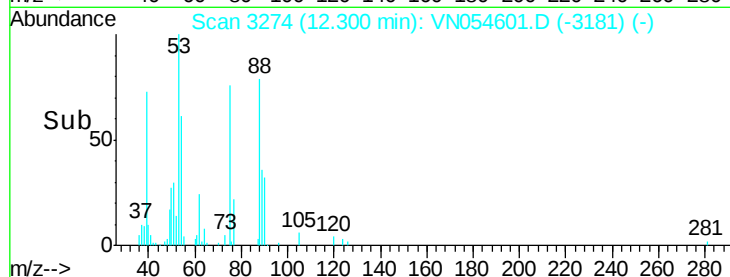
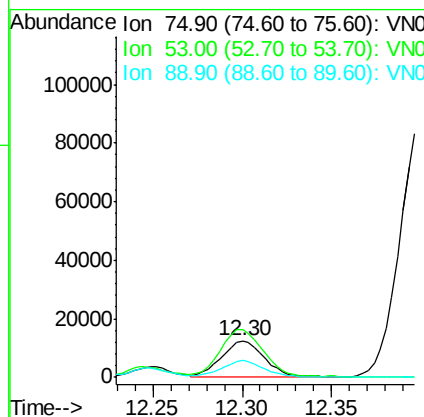
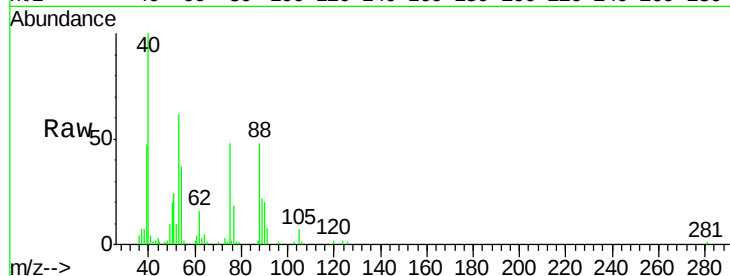
53 132.0 76.2 114.2#

89 45.2 39.2 58.8

Manual Integrations
APPROVED

MMDadoda

3/25/2019 10:23:33 AM



#82

4-Chlorotoluene

Concen: 20.728 ug/l

RT: 12.77 min Scan# 3421

Delta R.T. -0.00 min

Lab File: VN054601.D

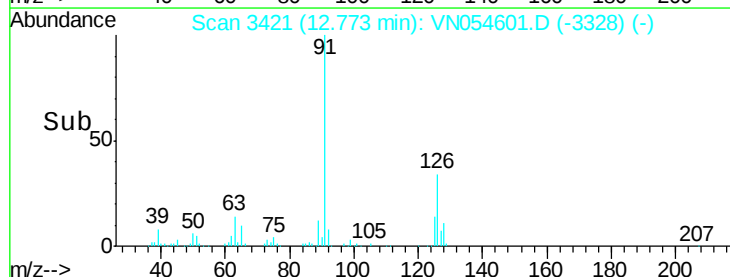
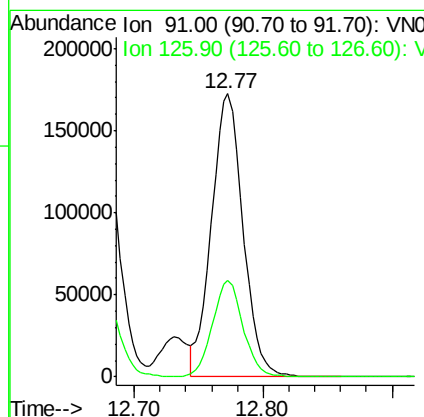
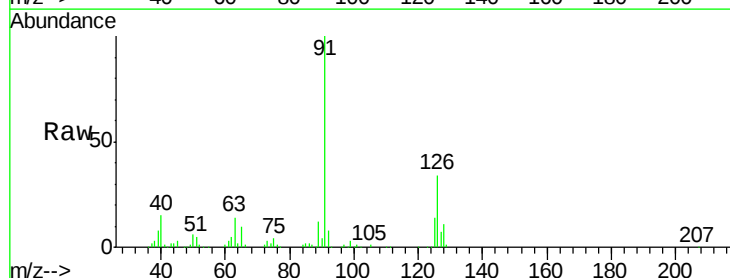
Acq: 23 Mar 2019 13:42

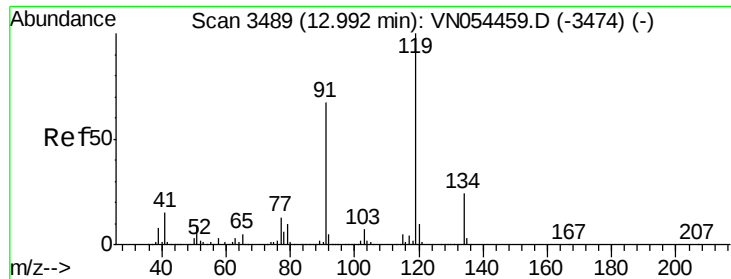
Tgt Ion: 91 Resp: 292746

Ion Ratio Lower Upper

91 100

126 33.1 18.1 54.1





#83

tert-Butylbenzene

Concen: 20.562 ug/l

RT: 12.99 min Scan# 3490

Delta R.T. 0.00 min

Lab File: VN054601.D

Acq: 23 Mar 2019 13:42

Instrument :

MSVOA_N

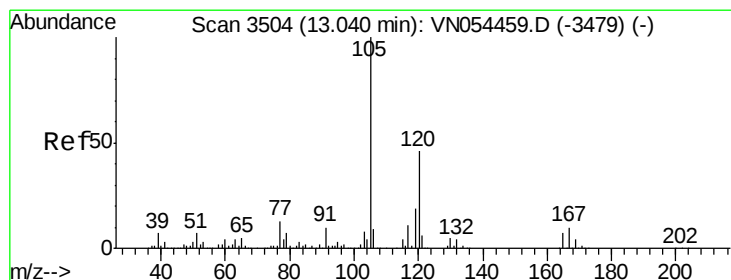
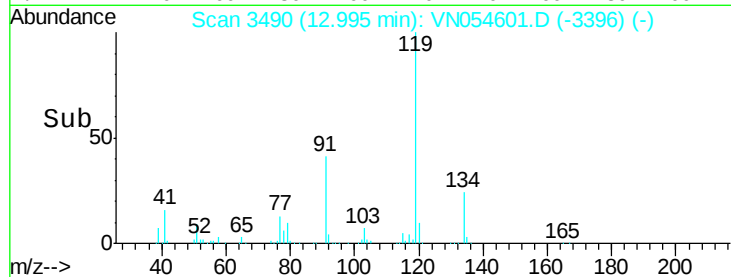
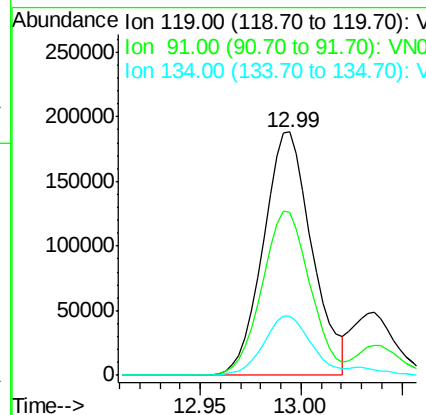
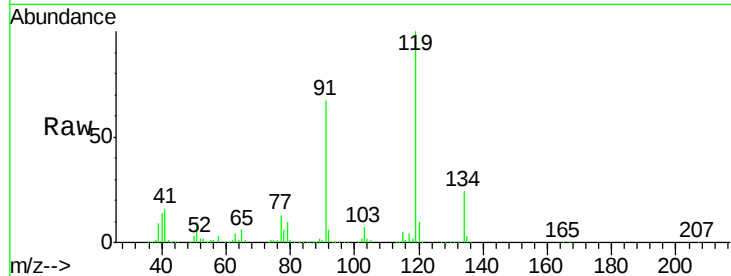
ClientSampleId :

VN0323WBS01

Tot Ion	Ratio	Resp	Lower	Upper
119	100	316083		
91	66.7	30.9	92.8	
134	23.8	13.2	39.6	

Manual Integrations
APPROVED

MMDadoda
3/25/2019 10:23:33 AM



#84

1,2,4-Trimethylbenzene

Concen: 20.656 ug/l

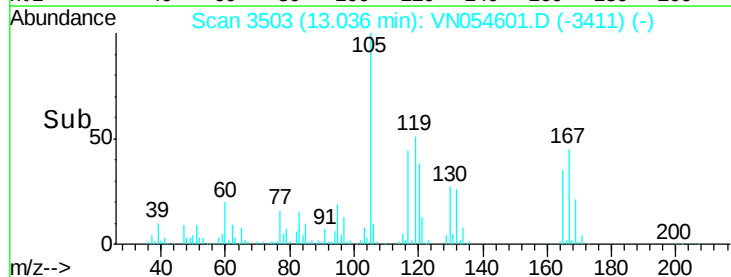
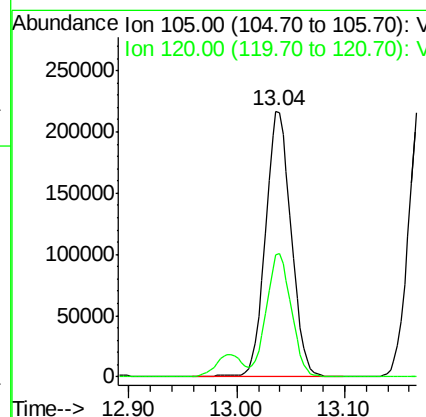
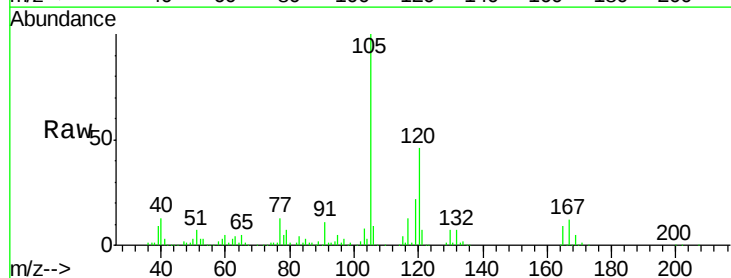
RT: 13.04 min Scan# 3503

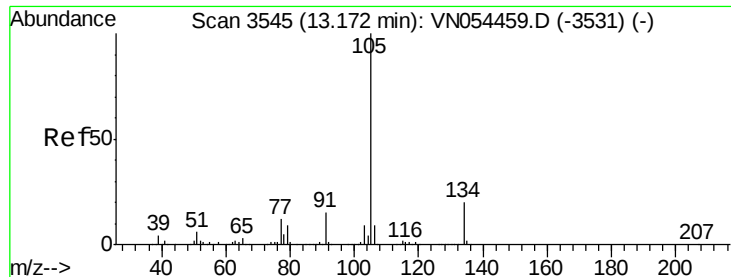
Delta R.T. -0.00 min

Lab File: VN054601.D

Acq: 23 Mar 2019 13:42

Tgt Ion	Ratio	Resp	Lower	Upper
105	100	357934		
120	45.2	23.4	70.3	





#85

sec-Butylbenzene

Concen: 20.334 ug/l

RT: 13.17 min Scan# 3545

Delta R.T. -0.00 min

Lab File: VN054601.D

Acq: 23 Mar 2019 13:42

Instrument :

MSVOA_N

ClientSampled :

VN0323WBS01

Tot Ion:105 Resp: 389665

Ion Ratio Lower Upper

105 100

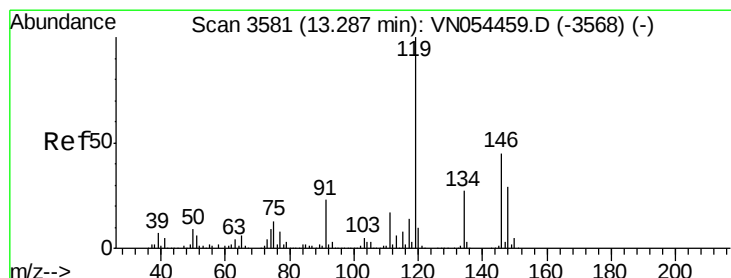
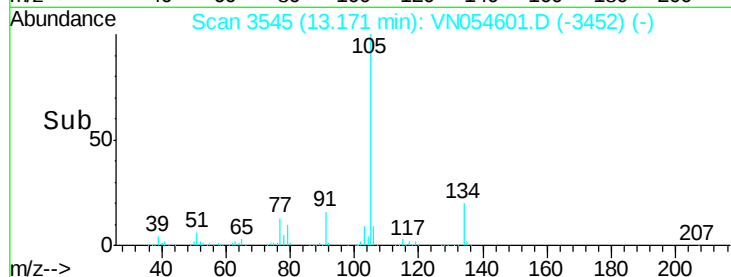
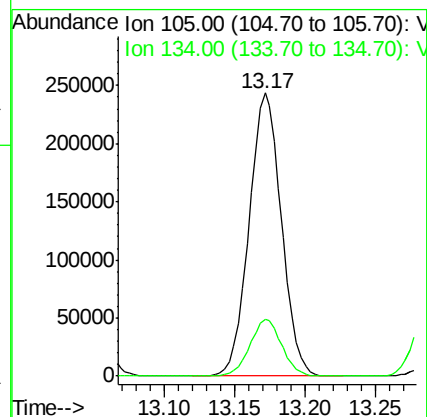
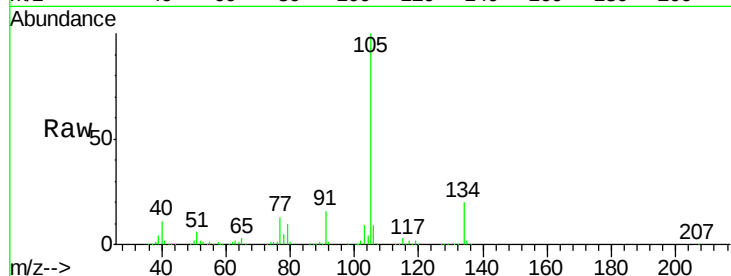
134 19.9 10.7 32.1

Manual Integrations

APPROVED

MMDadoda

3/25/2019 10:23:33 AM



#86

p-Isopropyltoluene

Concen: 20.069 ug/l

RT: 13.29 min Scan# 3581

Delta R.T. -0.00 min

Lab File: VN054601.D

Acq: 23 Mar 2019 13:42

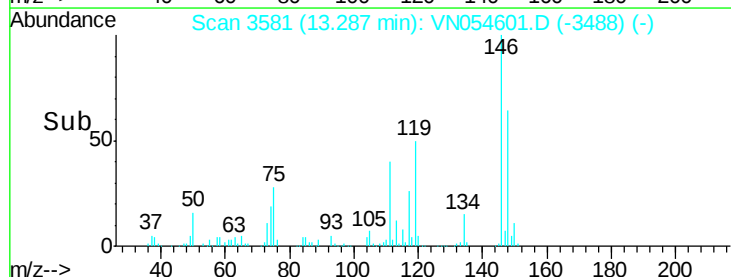
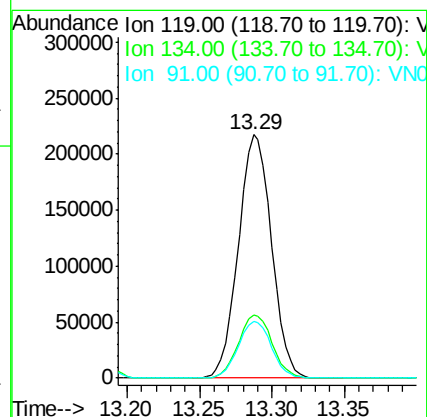
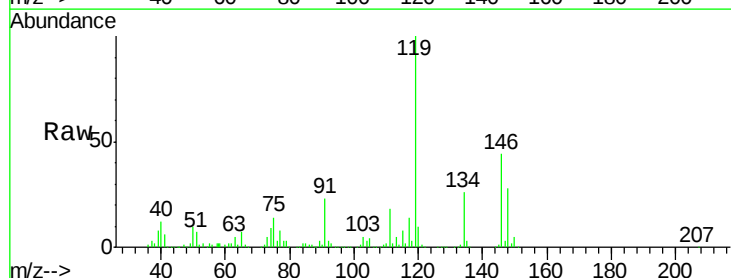
Tgt Ion:119 Resp: 344059

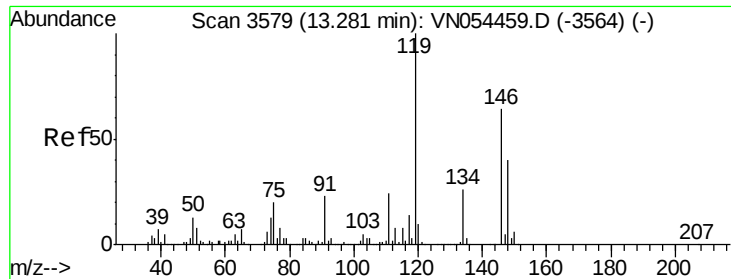
Ion Ratio Lower Upper

119 100

134 26.3 13.6 40.8

91 23.6 11.1 33.3





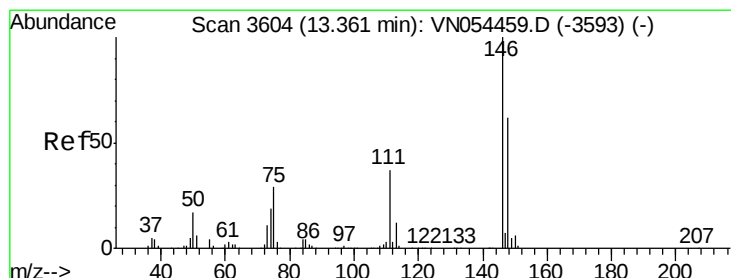
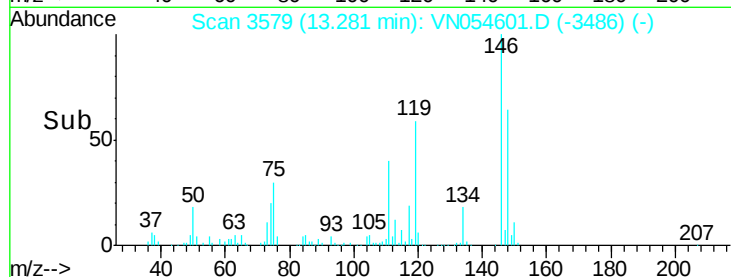
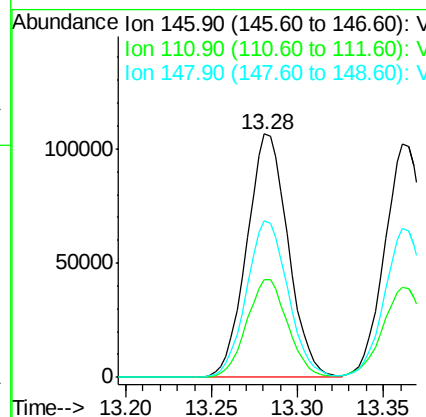
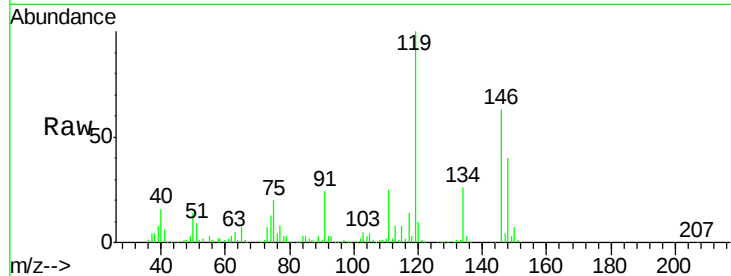
#87
 1,3-Dichlorobenzene
 Concen: 20.053 ug/l
 RT: 13.28 min Scan# 3579
 Delta R.T. -0.00 min
 Lab File: VN054601.D
 Acq: 23 Mar 2019 13:42

Instrument :
 MSVOA_N
 ClientSampleId :
 VN0323WBS01

Tot Ion	Ratio	Lower	Upper
146	100		
111	40.0	18.8	56.3
148	64.6	32.2	96.6

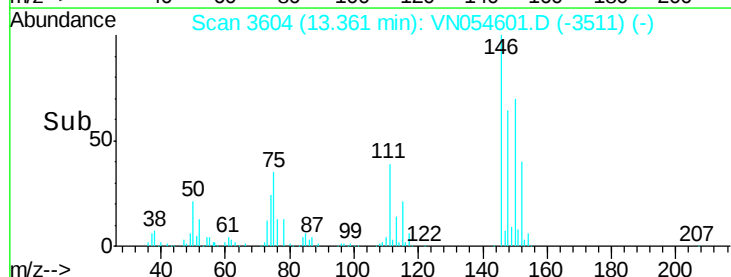
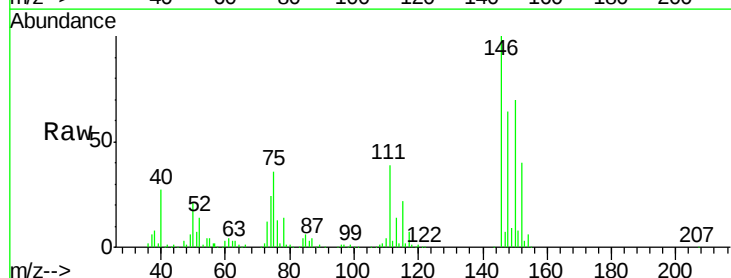
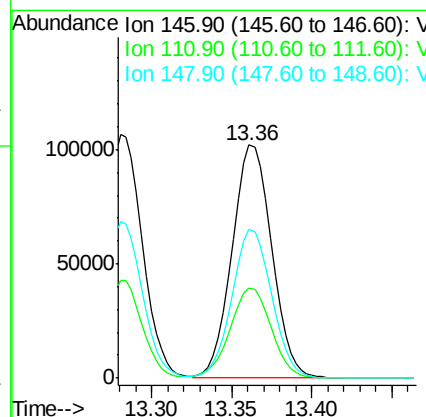
Manual Integrations
 APPROVED

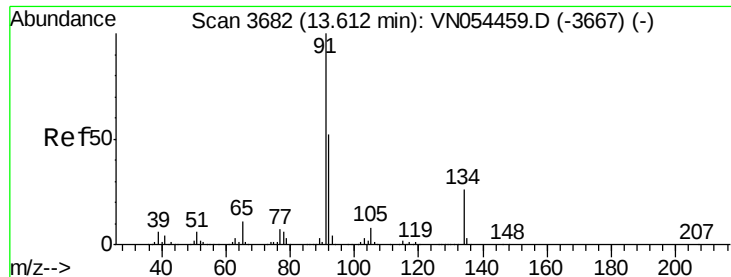
MMDadoda
 3/25/2019 10:23:33 AM



#88
 1,4-Dichlorobenzene
 Concen: 20.056 ug/l
 RT: 13.36 min Scan# 3604
 Delta R.T. -0.00 min
 Lab File: VN054601.D
 Acq: 23 Mar 2019 13:42

Tgt Ion	Ratio	Lower	Upper
146	100		
111	40.2	18.1	54.1
148	63.8	32.0	96.0





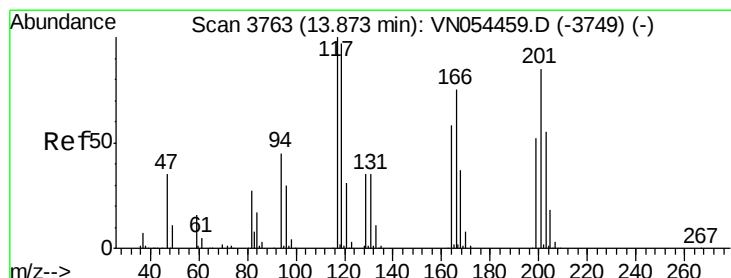
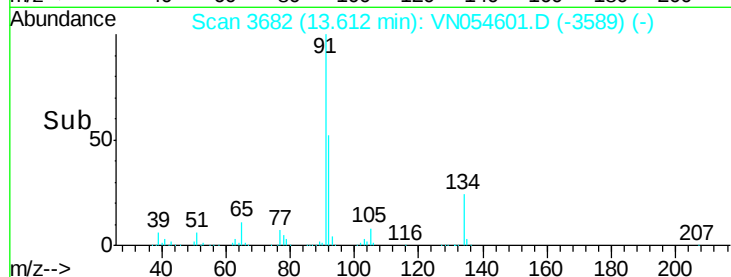
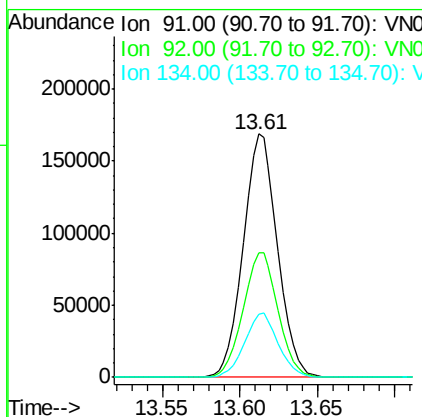
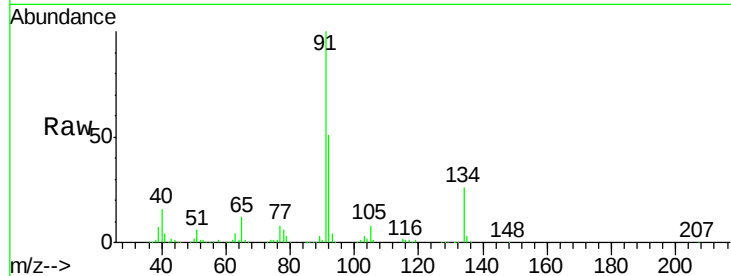
#89
n-Butylbenzene
Concen: 19.335 ug/l
RT: 13.61 min Scan# 3682
Delta R.T. -0.00 min
Lab File: VN054601.D
Acq: 23 Mar 2019 13:42

Instrument :
MSVOA_N
ClientSampleId :
VN0323WBS01

Tot Ion	Ratio	Lower	Upper
91	100		
92	52.2	26.2	78.6
134	25.9	14.3	42.9

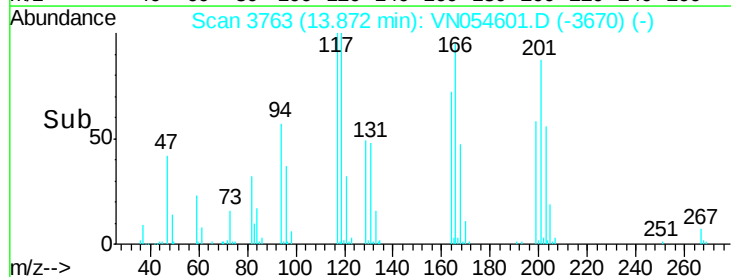
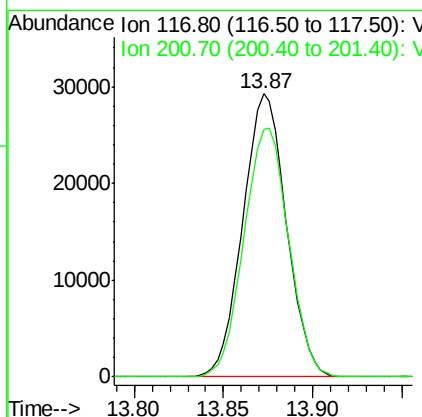
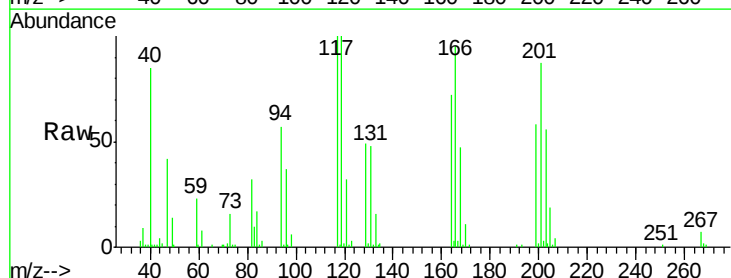
Manual Integrations
APPROVED

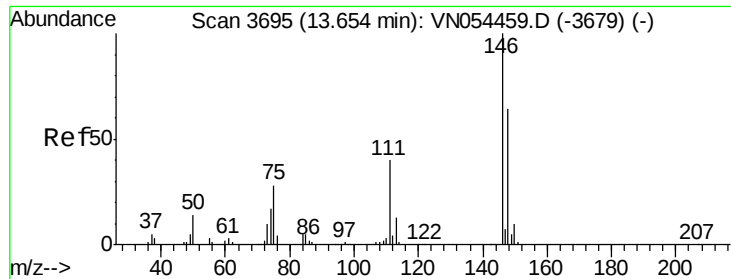
MMDadoda
3/25/2019 10:23:33 AM



#90
Hexachloroethane
Concen: 18.751 ug/l
RT: 13.87 min Scan# 3763
Delta R.T. -0.00 min
Lab File: VN054601.D
Acq: 23 Mar 2019 13:42

Tgt Ion	Ratio	Lower	Upper
117	100		
201	89.8	48.1	144.4





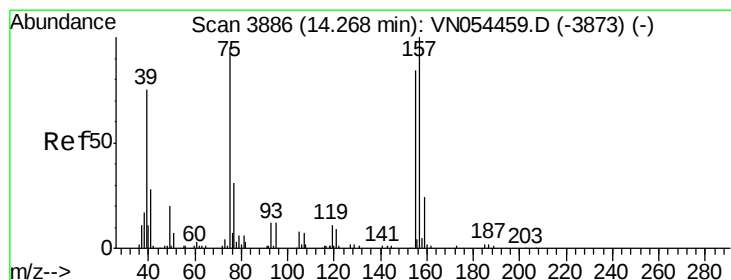
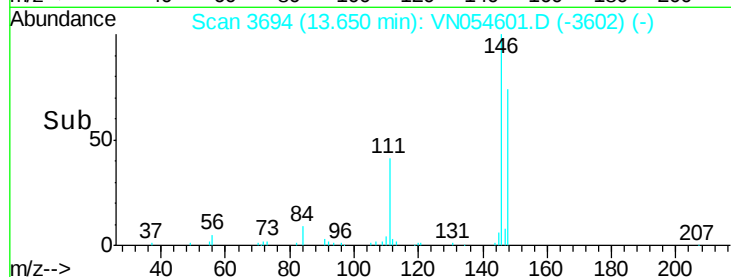
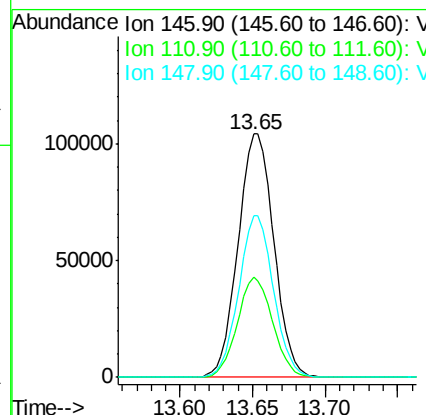
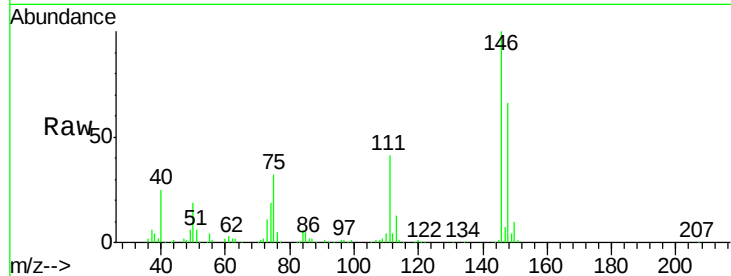
#91
 1,2-Dichlorobenzene
 Concen: 20.870 ug/l
 RT: 13.65 min Scan# 3694
 Delta R.T. -0.00 min
 Lab File: VN054601.D
 Acq: 23 Mar 2019 13:42

Instrument :
 MSVOA_N
 ClientSampleId :
 VN0323WBS01

Tot Ion	Ratio	Lower	Upper
146	100		
111	40.4	19.1	57.3
148	64.5	32.4	97.0

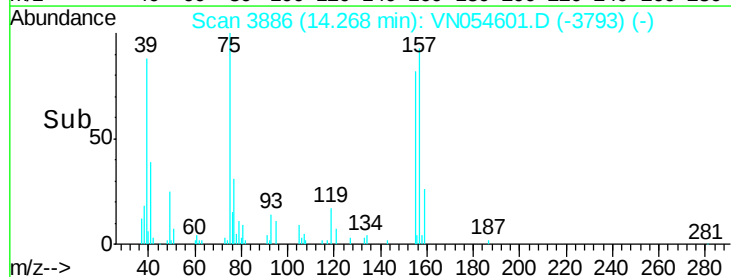
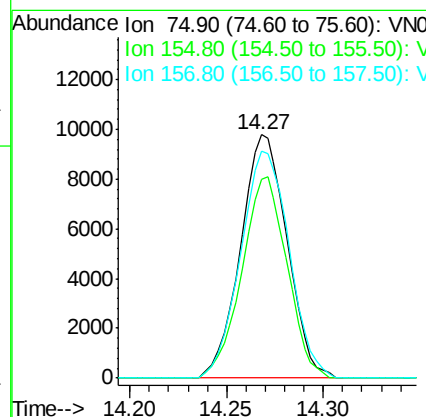
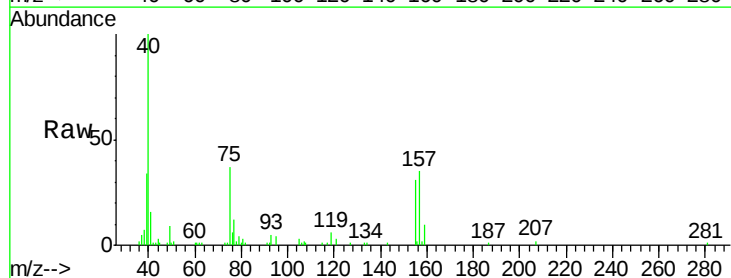
Manual Integrations
 APPROVED

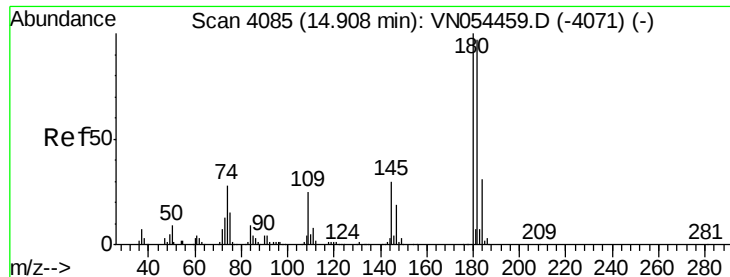
MMDadoda
 3/25/2019 10:23:33 AM



#92
 1,2-Dibromo-3-Chloropropane
 Concen: 22.669 ug/l
 RT: 14.27 min Scan# 3886
 Delta R.T. -0.00 min
 Lab File: VN054601.D
 Acq: 23 Mar 2019 13:42

Tgt Ion	Ratio	Lower	Upper
75	100		
155	80.2	50.1	150.3
157	97.1	63.1	189.3





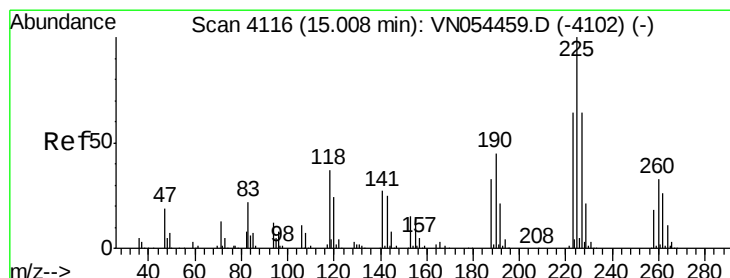
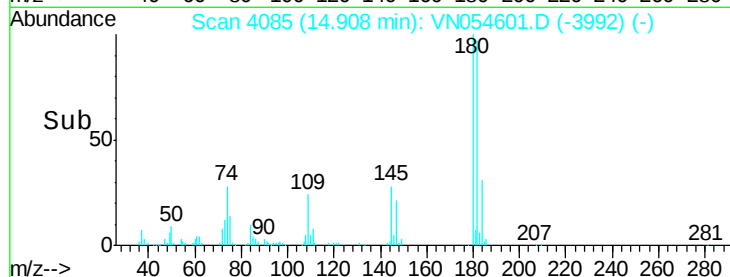
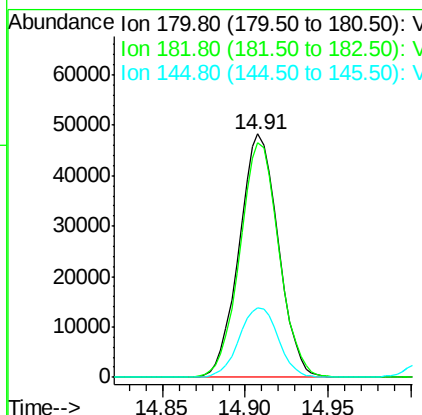
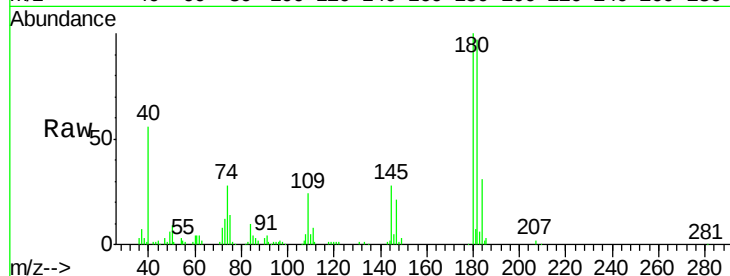
#93
 1,2,4-Trichlorobenzene
 Concen: 18.479 ug/l
 RT: 14.91 min Scan# 4085
 Delta R.T. -0.00 min
 Lab File: VN054601.D
 Acq: 23 Mar 2019 13:42

Instrument :
 MSVOA_N
 ClientSampleId :
 VN0323WBS01

Tot Ion	Ratio	Lower	Upper
180	100		
182	96.3	48.0	144.2
145	28.7	14.2	42.8

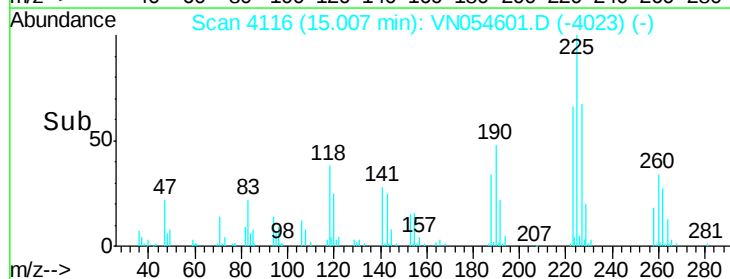
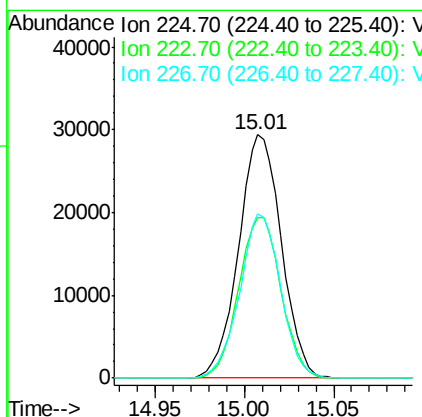
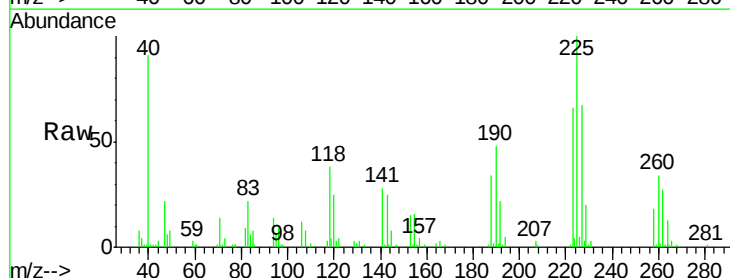
Manual Integrations
 APPROVED

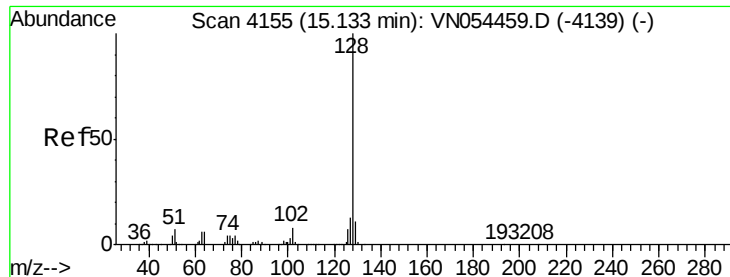
MMDadoda
 3/25/2019 10:23:33 AM



#94
 Hexachlorobutadiene
 Concen: 18.862 ug/l
 RT: 15.01 min Scan# 4116
 Delta R.T. 0.00 min
 Lab File: VN054601.D
 Acq: 23 Mar 2019 13:42

Tgt Ion	Ratio	Lower	Upper
225	100		
223	65.3	31.1	93.5
227	64.5	31.9	95.9





#95

Naphthalene

Concen: 19.617 ug/l

RT: 15.13 min Scan# 4155

Delta R.T. -0.00 min

Lab File: VN054601.D

Acq: 23 Mar 2019 13:42

Instrument :

MSVOA_N

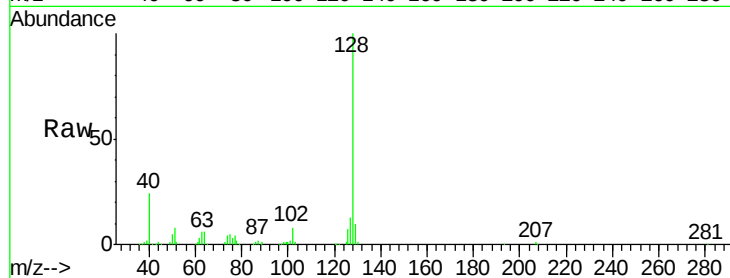
ClientSampled :

VN0323WBS01

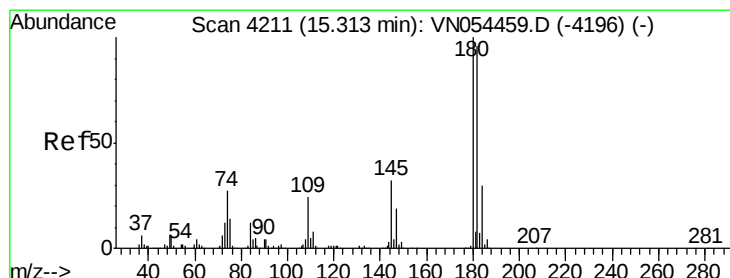
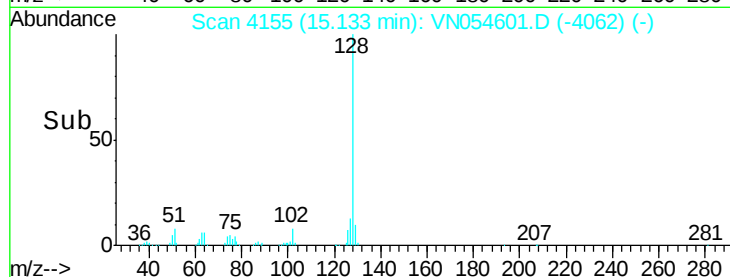
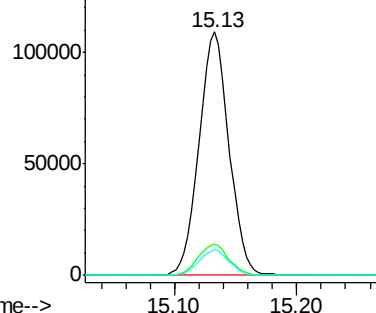
Tot Ion:	128	Resp:	187107
Ion Ratio	Lower	Upper	
128	100		
127	13.1	10.1	15.1
129	10.5	8.7	13.1

Manual Integrations
APPROVED

MMDadoda
3/25/2019 10:23:33 AM



Abundance Ion 128.00 (127.70 to 128.70): V
150000
Ion 127.00 (126.70 to 127.70): V
Ion 129.00 (128.70 to 129.70): V



#96

1,2,3-Trichlorobenzene

Concen: 19.407 ug/l

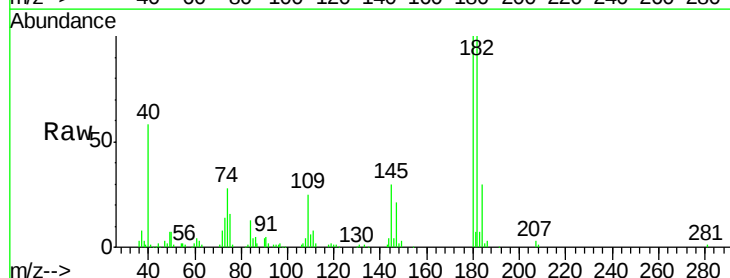
RT: 15.31 min Scan# 4211

Delta R.T. -0.00 min

Lab File: VN054601.D

Acq: 23 Mar 2019 13:42

Tgt Ion:	180	Resp:	82597
Ion Ratio	Lower	Upper	
180	100		
182	97.2	47.5	142.6
145	30.5	14.8	44.3



Abundance Ion 179.80 (179.50 to 180.50): V
60000
Ion 181.80 (181.50 to 182.50): V
Ion 144.90 (144.60 to 145.60): V

