

Data Path : Z:\VOASRV\HPCHEM1\MSVOA N\DATA\VN032019\
 Data File : VN054464.D
 Acq On : 20 Mar 2019 14:55
 Operator : JC/SP
 Sample : VSTDICV050
 Misc : 5.00mL/MSVOA N/WATER
 ALS Vial : 10 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 ICVVN032019

Manual Integrations
 APPROVED

MMDadoda
 3/22/2019 3:17:30 PM

Quant Time: Mar 22 04:42:13 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	546211	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	8.58	114	860157	50.00	ug/l	0.00
63) Chlorobenzene-d5	11.41	117	750914	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.34	152	350453	50.00	ug/l	0.00

System Monitoring Compounds

33) 1,2-Dichloroethane-d4	8.03	65	338185	49.78	ug/l	0.00
Spiked Amount	50.000		Recovery	=	99.56%	
35) Dibromofluoromethane	7.59	113	277693	50.11	ug/l	0.00
Spiked Amount	50.000		Recovery	=	100.22%	
50) Toluene-d8	10.09	98	1047763	50.29	ug/l	0.00
Spiked Amount	50.000		Recovery	=	100.58%	
62) 4-Bromofluorobenzene	12.40	95	359833	50.76	ug/l	0.00
Spiked Amount	50.000		Recovery	=	101.52%	

Target Compounds

						Qvalue
2) Dichlorodifluoromethane	1.85	85	271898	52.071	ug/l	100
3) Chloromethane	2.06	50	345297	48.603	ug/l	98
4) Vinyl Chloride	2.19	62	361798	50.723	ug/l	98
5) Bromomethane	2.57	94	220239	47.750	ug/l	97
6) Chloroethane	2.71	64	207380	48.473	ug/l	98
7) Trichlorofluoromethane	3.02	101	446837	51.584	ug/l	100
8) Diethyl Ether	3.41	74	157372	47.238	ug/l	74
9) 1,1,2-Trichlorotrifluoroet	3.75	101	258391	50.756	ug/l	96
10) Methyl Iodide	3.94	142	373178	49.832	ug/l	95
11) Tert butyl alcohol	4.81	59	89108	216.637	ug/l	100
12) 1,1-Dichloroethene	3.73	96	259724	49.298	ug/l	85
13) Acrolein	3.60	56	138442	243.895	ug/l	100
14) Allyl chloride	4.32	41	483867	48.773	ug/l #	93
15) Acrylonitrile	4.99	53	471410	230.141	ug/l	99
16) Acetone	3.82	43	425356	208.241	ug/l	89
17) Carbon Disulfide	4.04	76	697256	49.394	ug/l	99
18) Methyl Acetate	4.33	43	205882	45.221	ug/l	90
19) Methyl tert-butyl Ether	5.05	73	732648	47.650	ug/l	97
20) Methylene Chloride	4.55	84	286391	47.564	ug/l #	85
21) trans-1,2-Dichloroethene	5.03	96	271823	50.528	ug/l	86
22) Diisopropyl ether	5.96	45	979011	50.030	ug/l #	94
23) Vinyl Acetate	5.90	43	3488841	252.438	ug/l #	93
24) 1,1-Dichloroethane	5.84	63	521205	49.468	ug/l	98
25) 2-Butanone	6.84	43	609052	232.766	ug/l	91
26) 2,2-Dichloropropane	6.82	77	382669	50.949	ug/l	97
27) cis-1,2-Dichloroethene	6.83	96	311178	48.495	ug/l	88
28) Bromochloromethane	7.19	49	258534	49.850	ug/l #	79
29) Tetrahydrofuran	7.22	42	399447	235.246	ug/l #	86
30) Chloroform	7.37	83	509903	49.590	ug/l	99
31) Cyclohexane	7.65	56	525308	52.110	ug/l	89
32) 1,1,1-Trichloroethane	7.57	97	440167	51.887	ug/l	96
36) 1,1-Dichloropropene	7.79	75	408840	50.835	ug/l	96
37) Ethyl Acetate	6.93	43	265589	46.431	ug/l	96
38) Carbon Tetrachloride	7.77	117	388256	49.677	ug/l	100

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Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
39) Methylcyclohexane	9.08	83	478773	52.042	ug/l	90
40) Benzene	8.04	78	1159018	50.396	ug/l	100
41) Methacrylonitrile	7.17	41	151793	43.513	ug/l	91
42) 1,2-Dichloroethane	8.12	62	408543	48.779	ug/l	97
43) Isopropyl Acetate	8.17	43	470437	48.697	ug/l #	93
44) Trichloroethene	8.83	130	318465	49.807	ug/l	95
45) 1,2-Dichloropropane	9.12	63	314067	50.857	ug/l	98
46) Dibromomethane	9.21	93	183530	49.816	ug/l	91
47) Bromodichloromethane	9.40	83	389787	50.980	ug/l	97
48) Methyl methacrylate	9.20	41	249254	47.537	ug/l #	87
49) 1,4-Dioxane	9.20	88	54115	923.186	ug/l #	89
51) 4-Methyl-2-Pentanone	9.99	43	1273270	237.822	ug/l	94
52) Toluene	10.16	92	709315	50.146	ug/l	100
53) t-1,3-Dichloropropene	10.38	75	377288	46.922	ug/l	98
54) cis-1,3-Dichloropropene	9.84	75	460439	52.521	ug/l #	91
55) 1,1,2-Trichloroethane	10.56	97	249025	48.977	ug/l	98
56) Ethyl methacrylate	10.43	69	334449	49.007	ug/l #	85
57) 1,3-Dichloropropane	10.71	76	439883	49.769	ug/l	100
58) 2-Chloroethyl Vinyl ether	9.70	63	694312	247.070	ug/l	91
59) 2-Hexanone	10.75	43	811893	232.162	ug/l	92
60) Dibromochloromethane	10.90	129	286199	52.897	ug/l	99
61) 1,2-Dibromoethane	11.00	107	248515	49.439	ug/l	99
64) Tetrachloroethene	10.63	164	309538	49.697	ug/l	97
65) Chlorobenzene	11.43	112	763947	50.020	ug/l	99
66) 1,1,1,2-Tetrachloroethane	11.51	131	284213	51.846	ug/l	99
67) Ethyl Benzene	11.51	91	1359799	50.404	ug/l	98
68) m/p-Xylenes	11.62	106	1039439	101.720	ug/l	98
69) o-Xylene	11.95	106	496360	49.738	ug/l	97
70) Styrene	11.96	104	835138	51.532	ug/l	98
71) Bromoform	12.13	173	171651	45.622	ug/l #	99
73) Isopropylbenzene	12.25	105	1329044	47.062	ug/l	99
74) N-amyl acetate	12.07	43	386964	47.655	ug/l	93
75) 1,1,2,2-Tetrachloroethane	12.50	83	298057	46.235	ug/l	98
76) 1,2,3-Trichloropropane	12.55	75	269177m	48.403	ug/l	
77) Bromobenzene	12.53	156	331996	47.401	ug/l	91
78) n-propylbenzene	12.59	91	1496942	48.884	ug/l	98
79) 2-Chlorotoluene	12.67	91	886990	46.449	ug/l	96
80) 1,3,5-Trimethylbenzene	12.73	105	1123789	48.554	ug/l	98
81) trans-1,4-Dichloro-2-buten	12.30	75	67385	42.294	ug/l #	83
82) 4-Chlorotoluene	12.77	91	896677	48.443	ug/l	97
83) tert-Butylbenzene	12.99	119	973311	48.311	ug/l	98
84) 1,2,4-Trimethylbenzene	13.04	105	1116324	49.154	ug/l	97
85) sec-Butylbenzene	13.17	105	1230854	49.009	ug/l	97
86) p-Isopropyltoluene	13.29	119	1116877	49.708	ug/l	99
87) 1,3-Dichlorobenzene	13.28	146	571653	49.252	ug/l	98
88) 1,4-Dichlorobenzene	13.36	146	552330	48.910	ug/l	98
89) n-Butylbenzene	13.61	91	923084	52.540	ug/l	98
90) Hexachloroethane	13.87	117	177364	50.854	ug/l	90
91) 1,2-Dichlorobenzene	13.65	146	546112	48.577	ug/l	97
92) 1,2-Dibromo-3-Chloropropan	14.27	75	44705	47.279	ug/l	85

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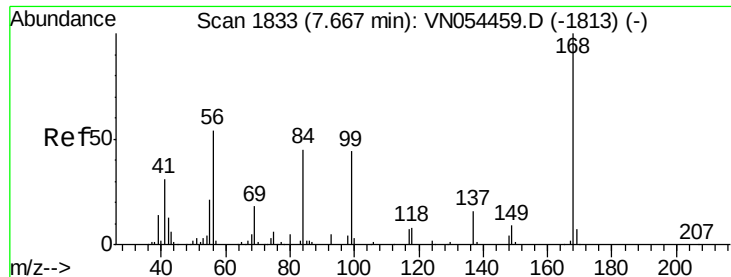
Manual Integrations
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Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
93) 1,2,4-Trichlorobenzene	14.91	180	293160	52.310	ug/l	99
94) Hexachlorobutadiene	15.01	225	172953	55.185	ug/l	99
95) Naphthalene	15.13	128	601875	48.148	ug/l	99
96) 1,2,3-Trichlorobenzene	15.31	180	280809	50.344	ug/l	100

(#) = 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: VN054464.D

Acq: 20 Mar 2019 14:55

Instrument :

MSVOA_N

ClientSampled :

ICVVN032019

Tot Ion:168 Resp: 546211

Ion Ratio Lower Upper

168 100

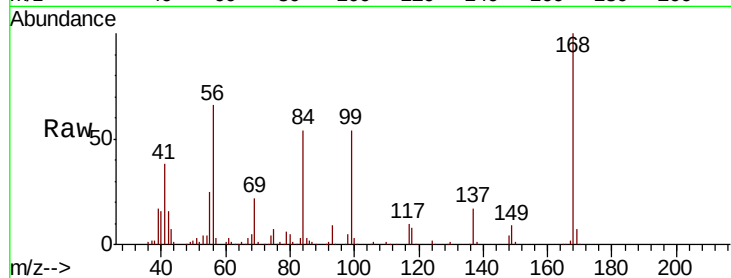
99 53.0 37.1 55.7

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Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VNO

7.66

250000

200000

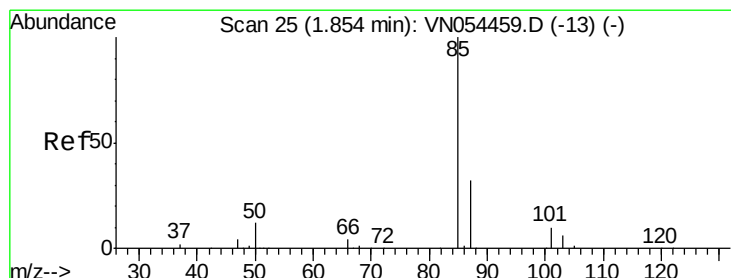
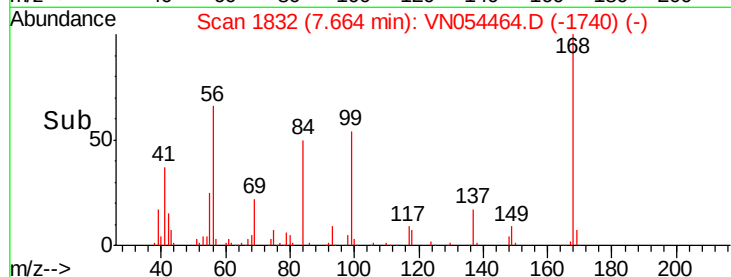
150000

100000

50000

0

Time-->



#2

Dichlorodifluoromethane

Concen: 52.071 ug/l

RT: 1.85 min Scan# 24

Delta R.T. -0.00 min

Lab File: VN054464.D

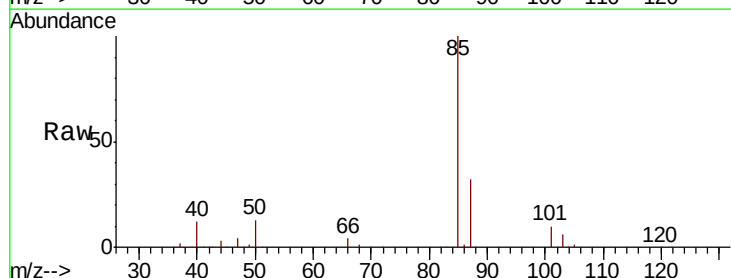
Acq: 20 Mar 2019 14:55

Tgt Ion: 85 Resp: 271898

Ion Ratio Lower Upper

85 100

87 31.7 15.9 47.7



Abundance Ion 84.90 (84.60 to 85.60): VNO

Ion 86.90 (86.60 to 87.60): VNO

1.85

200000

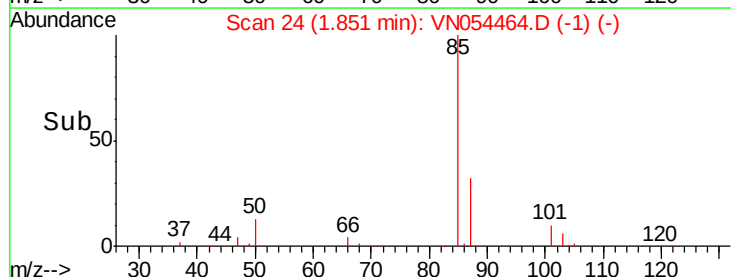
150000

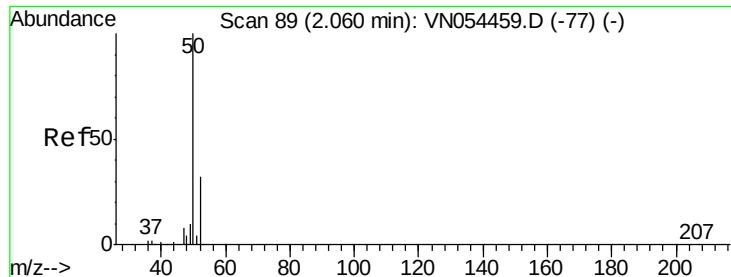
100000

50000

0

Time-->





#3

Chloromethane

Concen: 48.603 ug/l

RT: 2.06 min Scan# 89

Delta R.T. 0.00 min

Lab File: VN054464.D

Acq: 20 Mar 2019 14:55

Tot Ion: 50 Resp: 345297

Ion Ratio Lower Upper

50 100

52 32.0 26.4 39.6

Instrument :

MSVOA_N

ClientSampled :

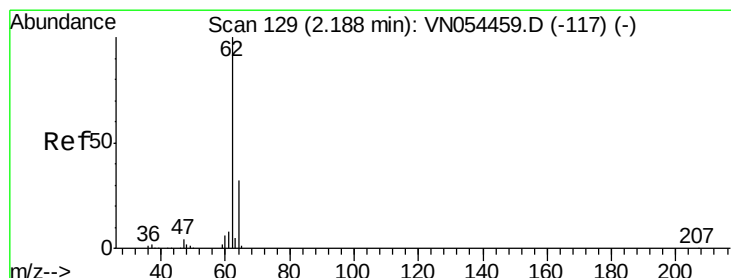
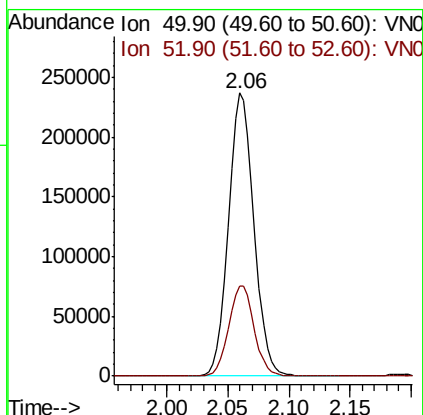
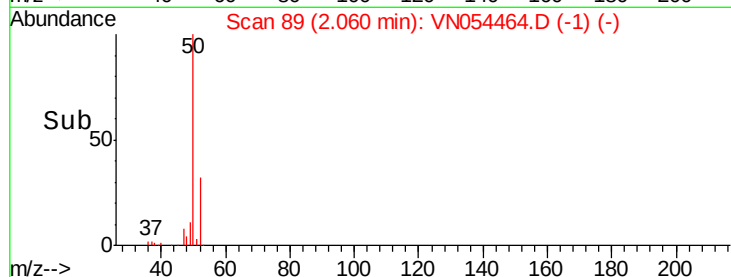
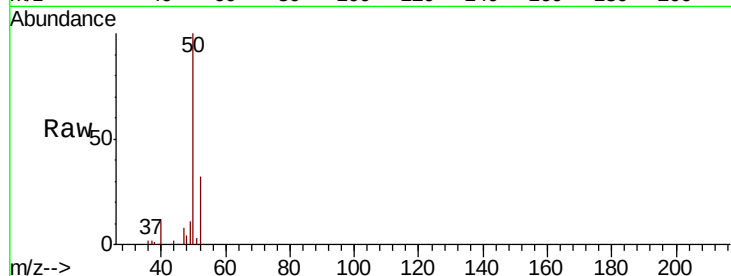
ICVVN032019

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#4

Vinyl Chloride

Concen: 50.723 ug/l

RT: 2.19 min Scan# 129

Delta R.T. 0.00 min

Lab File: VN054464.D

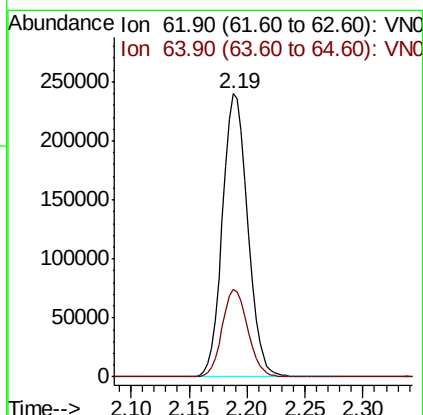
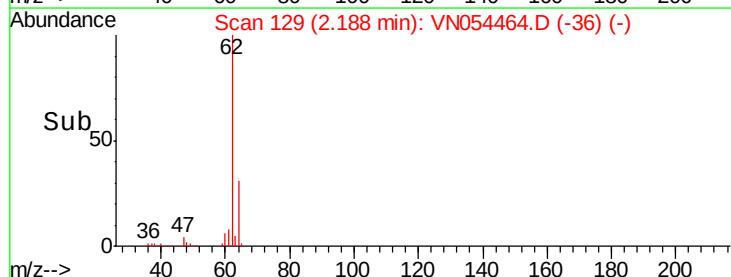
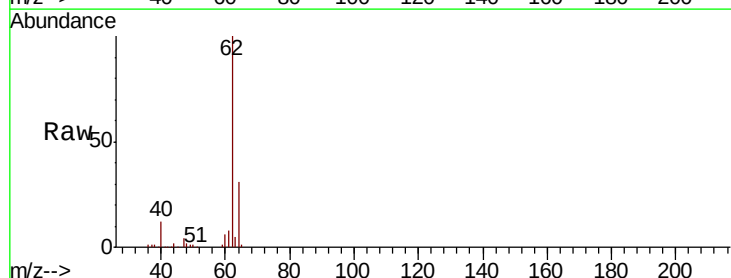
Acq: 20 Mar 2019 14:55

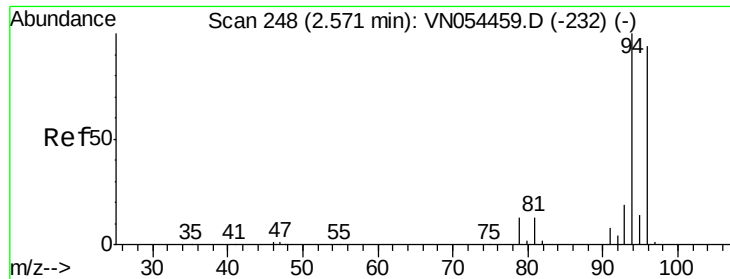
Tgt Ion: 62 Resp: 361798

Ion Ratio Lower Upper

62 100

64 31.0 25.5 38.3





#5

Bromomethane

Concen: 47.750 ug/l

RT: 2.57 min Scan# 248

Delta R.T. 0.00 min

Lab File: VN054464.D

Acq: 20 Mar 2019 14:55

Instrument :

MSVOA_N

ClientSampleId :

ICVVN032019

Tot Ion: 94 Resp: 220239

Ion Ratio Lower Upper

94 100

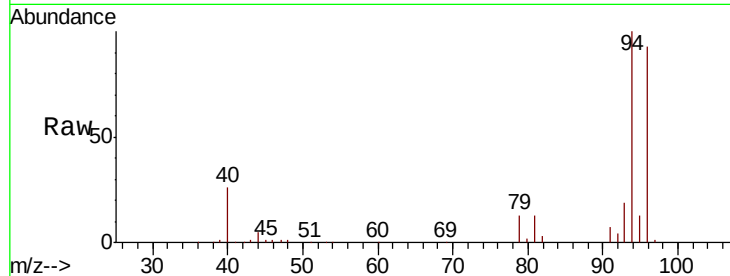
96 93.1 77.0 115.4

Manual Integrations

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Abundance Ion 93.90 (93.60 to 94.60): VN0

Ion 95.90 (95.60 to 96.60): VN0

120000

100000

80000

60000

40000

20000

0

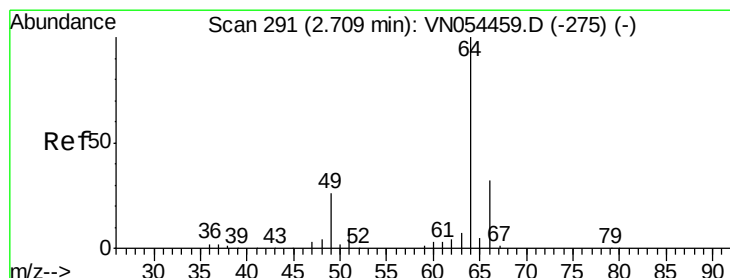
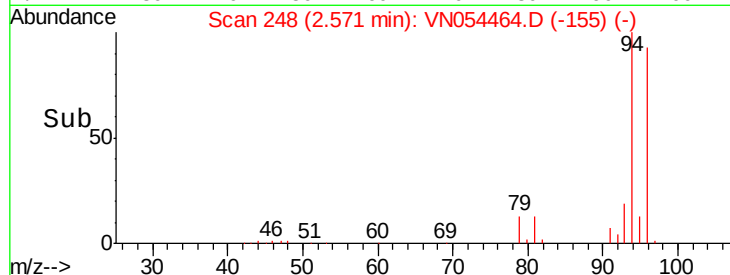
2.50

2.57

2.60

2.70

Time-->



#6

Chloroethane

Concen: 48.473 ug/l

RT: 2.71 min Scan# 291

Delta R.T. 0.00 min

Lab File: VN054464.D

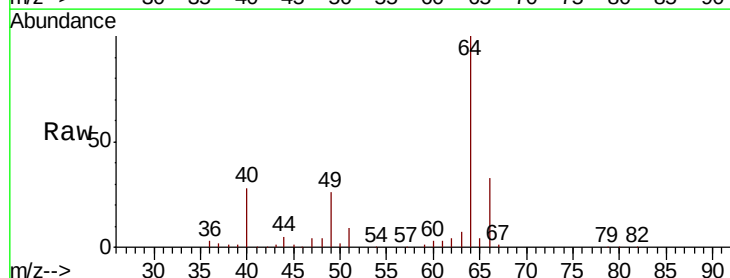
Acq: 20 Mar 2019 14:55

Tgt Ion: 64 Resp: 207380

Ion Ratio Lower Upper

64 100

66 33.3 25.7 38.5



Abundance Ion 63.90 (63.60 to 64.60): VN0

Ion 65.90 (65.60 to 66.60): VN0

120000

100000

80000

60000

40000

20000

0

2.60

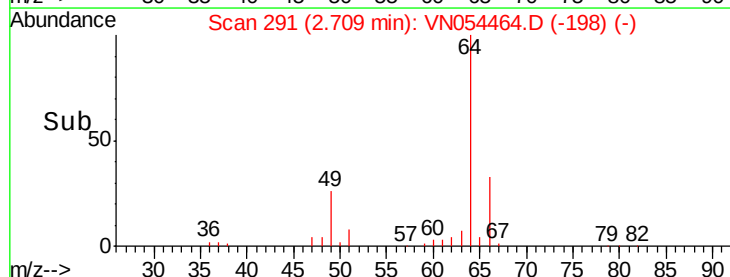
2.65

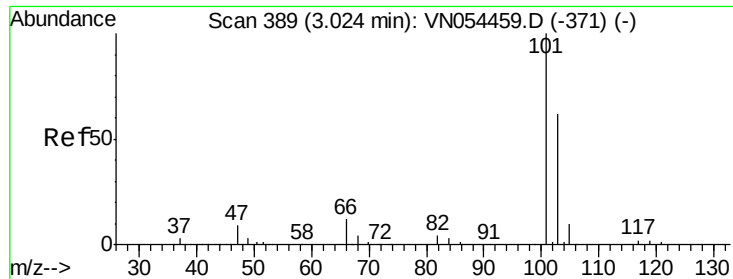
2.70

2.75

2.80

Time-->





#7

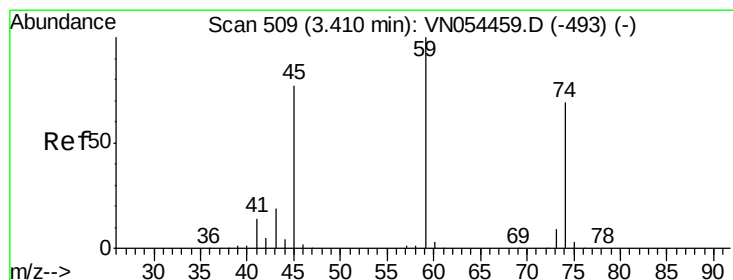
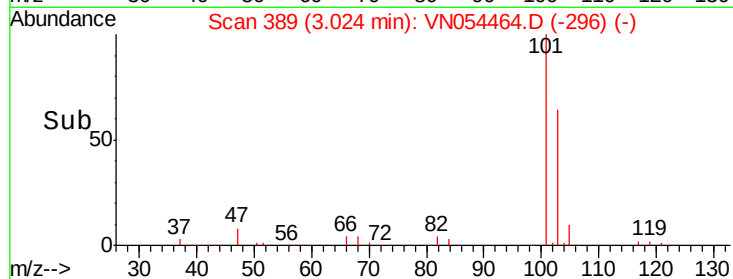
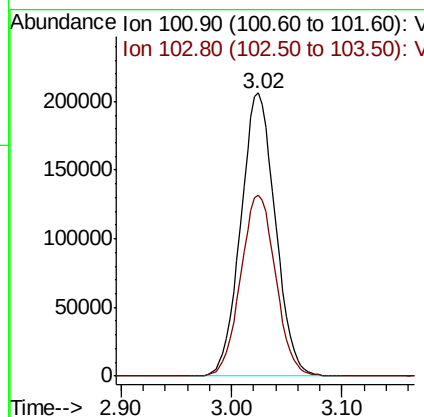
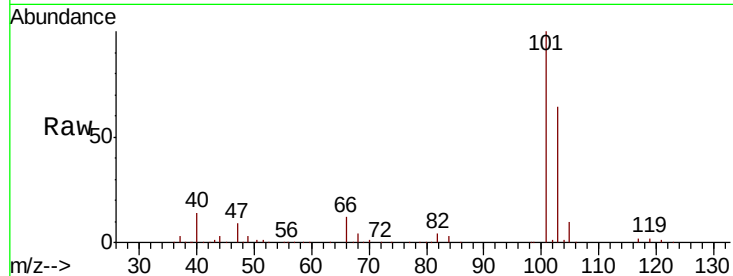
Trichlorofluoromethane
 Concen: 51.584 ug/l
 RT: 3.02 min Scan# 389
 Delta R.T. 0.00 min
 Lab File: VN054464.D
 Acq: 20 Mar 2019 14:55

Instrument :
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 ClientSampleId :
 ICVVN032019

Tot Ion	Ratio	Lower	Upper
101	100		
103	64.0	51.4	77.2

Manual Integrations
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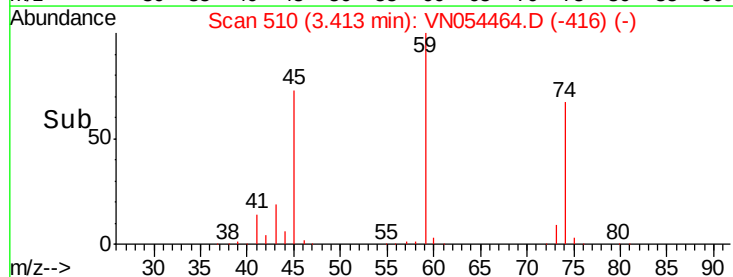
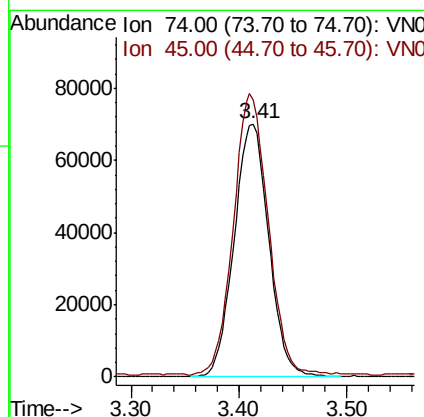
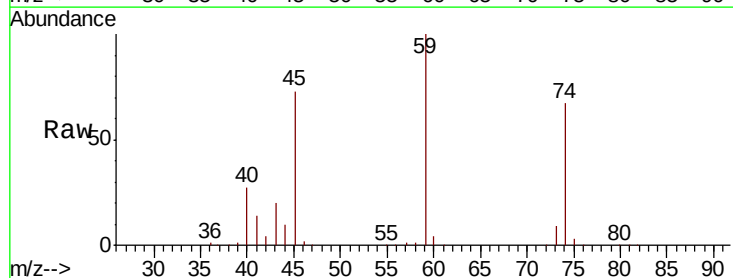
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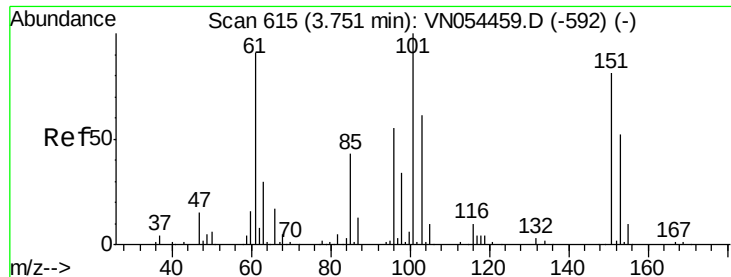


#8

Diethyl Ether
 Concen: 47.238 ug/l
 RT: 3.41 min Scan# 510
 Delta R.T. 0.00 min
 Lab File: VN054464.D
 Acq: 20 Mar 2019 14:55

Tgt Ion	Ratio	Lower	Upper
74	100		
45	110.5	43.1	129.4





#9

1,1,2-Trichlorotrifluoroethane

Concen: 50.756 ug/l

RT: 3.75 min Scan# 615

Delta R.T. 0.00 min

Lab File: VN054464.D

Acq: 20 Mar 2019 14:55

Instrument :

MSVOA_N

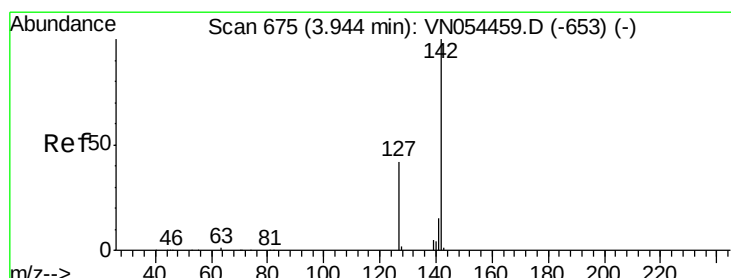
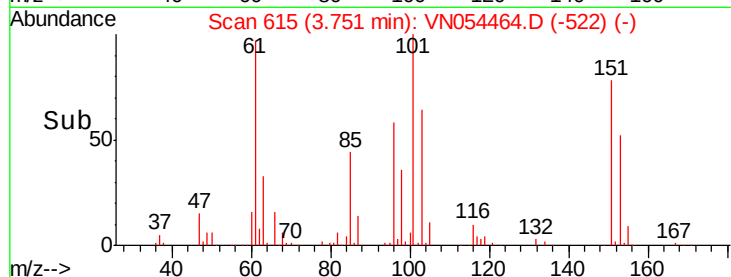
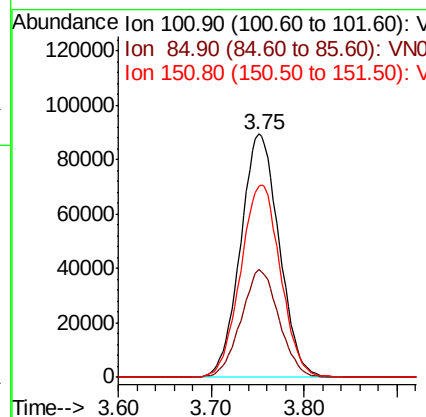
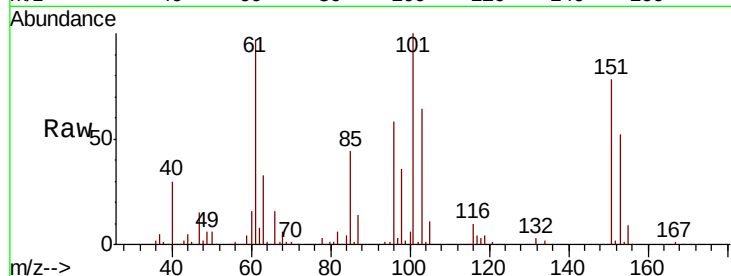
ClientSampleId :

ICVVN032019

Tot Ion:	101	Resp:	258391
Ion Ratio	Lower	Upper	
101	100		
85	43.4	32.4	48.6
151	81.5	68.2	102.2

Manual Integrations
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#10

Methyl Iodide

Concen: 49.832 ug/l

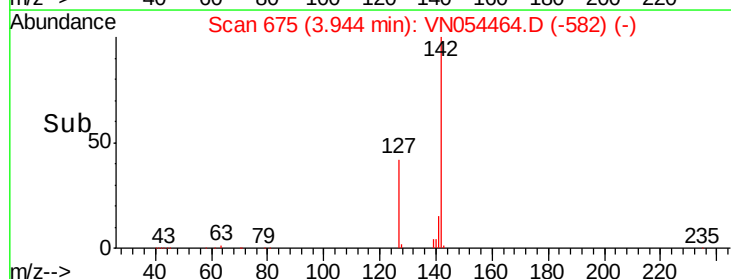
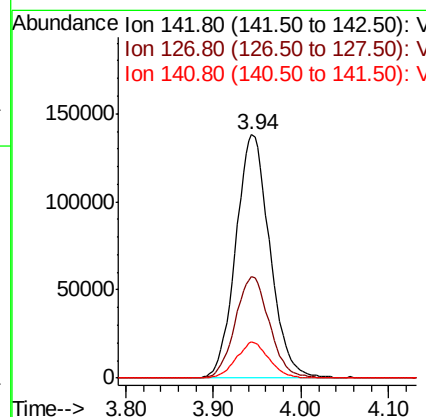
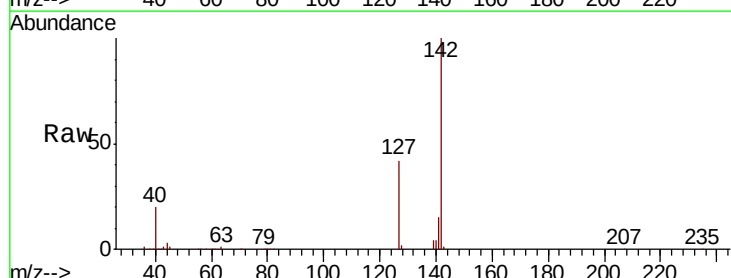
RT: 3.94 min Scan# 675

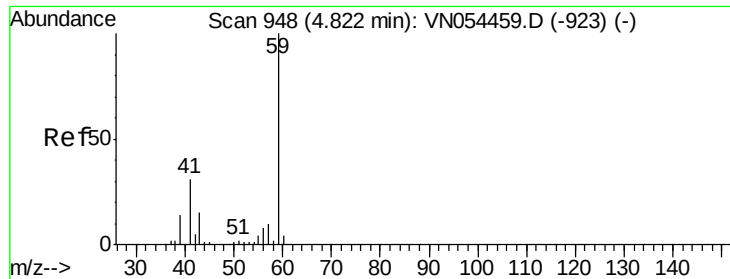
Delta R.T. 0.00 min

Lab File: VN054464.D

Acq: 20 Mar 2019 14:55

Tgt Ion:	142	Resp:	373178
Ion Ratio	Lower	Upper	
142	100		
127	42.1	30.3	45.5
141	14.3	11.2	16.8





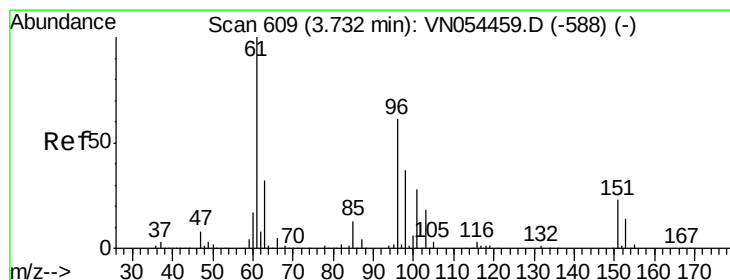
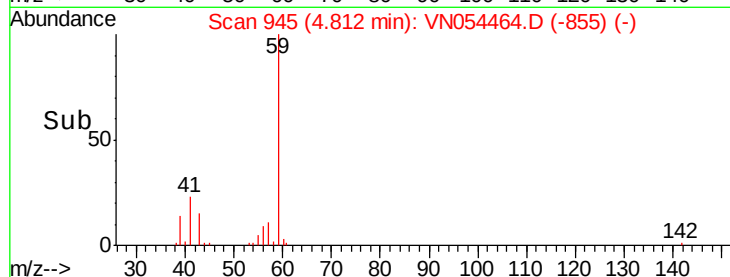
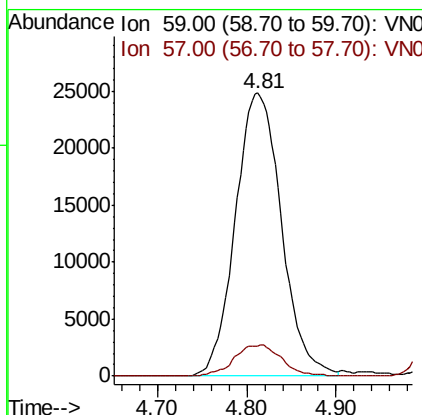
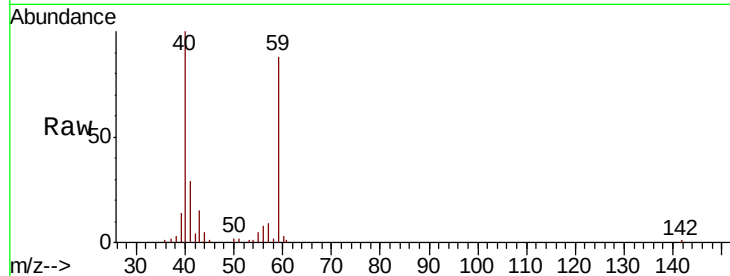
#11
Tert butyl alcohol
Concen: 216.637 ug/l
RT: 4.81 min Scan# 945
Delta R.T. -0.01 min
Lab File: VN054464.D
Acq: 20 Mar 2019 14:55

Instrument :
MSVOA_N
ClientSampleId :
ICVVN032019

Tot Ion	Ratio	Lower	Upper
59	100		
57	11.3	9.0	13.6

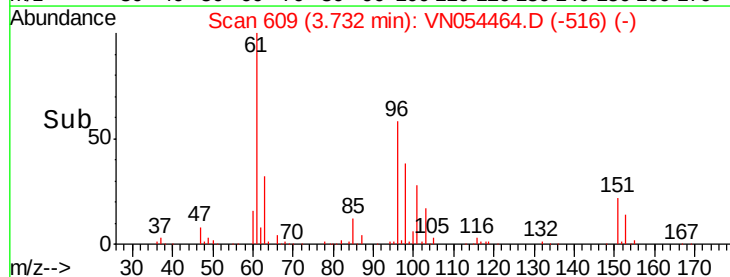
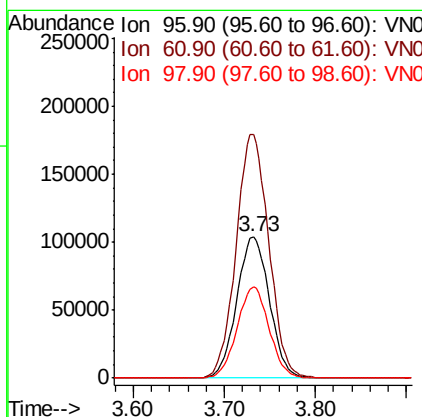
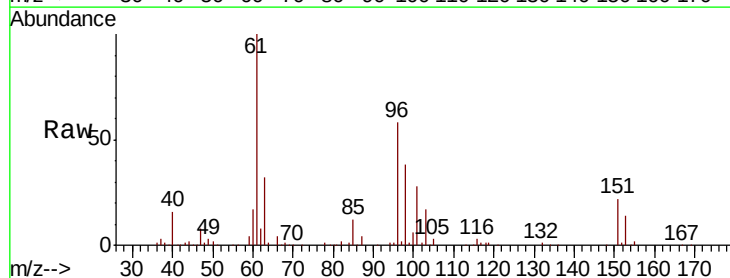
Manual Integrations
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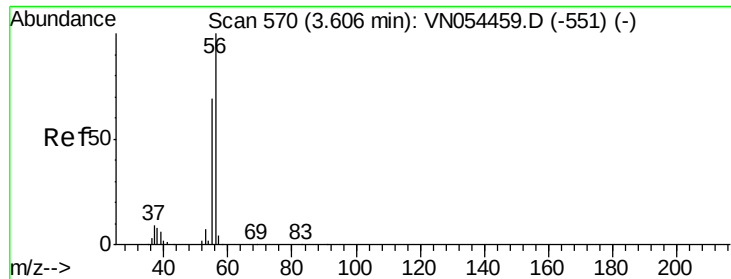
MMDadoda
3/22/2019 3:17:30 PM



#12
1,1-Dichloroethene
Concen: 49.298 ug/l
RT: 3.73 min Scan# 609
Delta R.T. 0.00 min
Lab File: VN054464.D
Acq: 20 Mar 2019 14:55

Tgt Ion	Ratio	Lower	Upper
96	100		
61	172.1	116.5	174.7
98	64.6	51.0	76.4





#13

Acrolein

Concen: 243.895 ug/l

RT: 3.60 min Scan# 569

Delta R.T. -0.00 min

Lab File: VN054464.D

Acq: 20 Mar 2019 14:55

Instrument :

MSVOA_N

ClientSampleId :

ICVVN032019

Tot Ion: 56 Resp: 138442

Ion Ratio Lower Upper

56 100

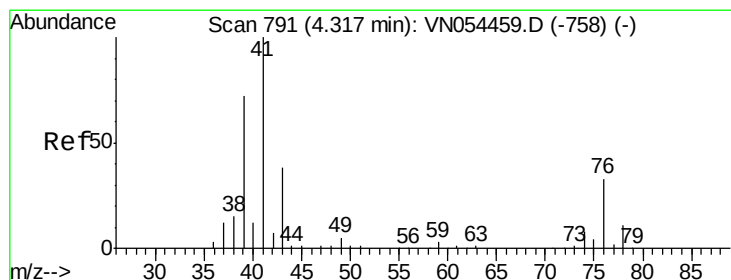
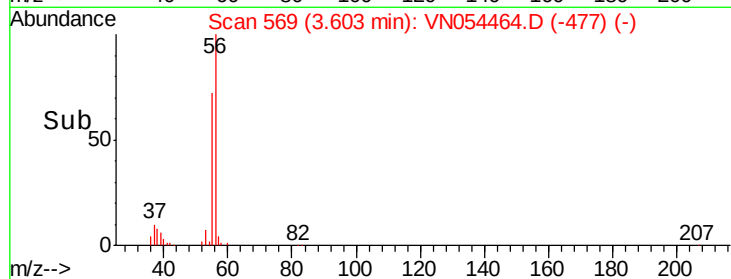
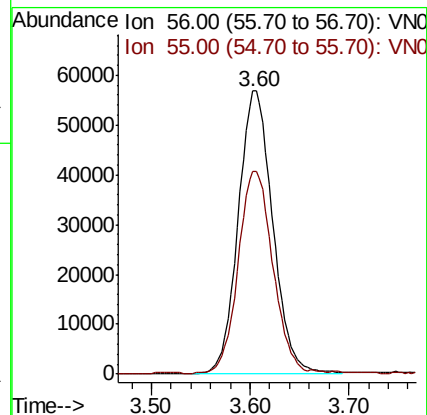
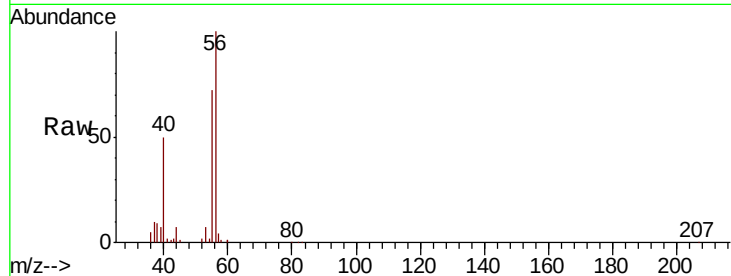
55 71.2 56.7 85.1

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#14

Allyl chloride

Concen: 48.773 ug/l

RT: 4.32 min Scan# 791

Delta R.T. 0.00 min

Lab File: VN054464.D

Acq: 20 Mar 2019 14:55

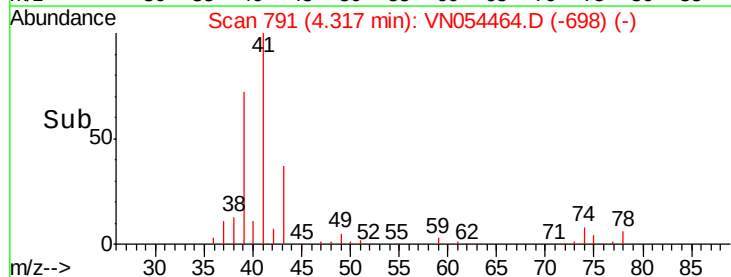
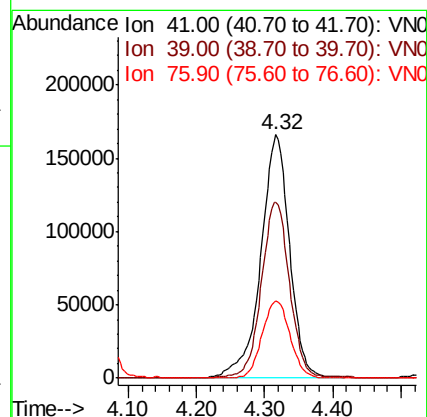
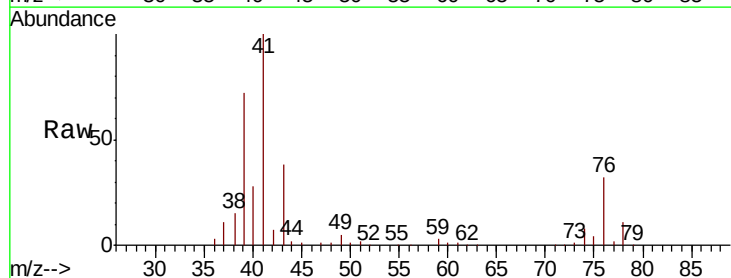
Tgt Ion: 41 Resp: 483867

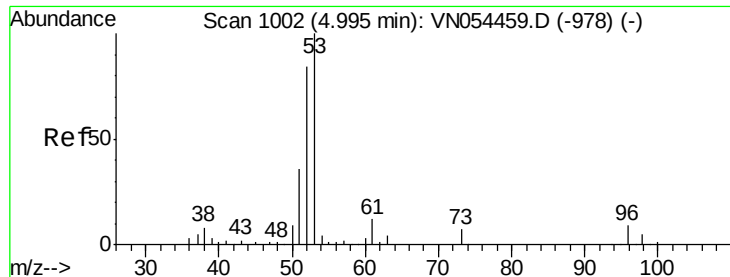
Ion Ratio Lower Upper

41 100

39 70.6 58.2 87.4

76 31.0 31.7 47.5#





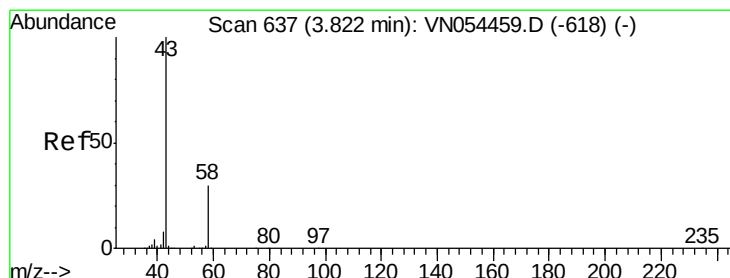
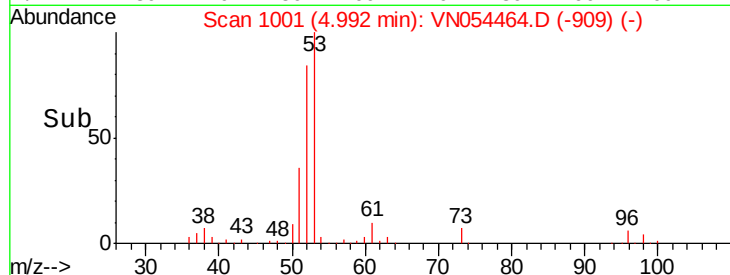
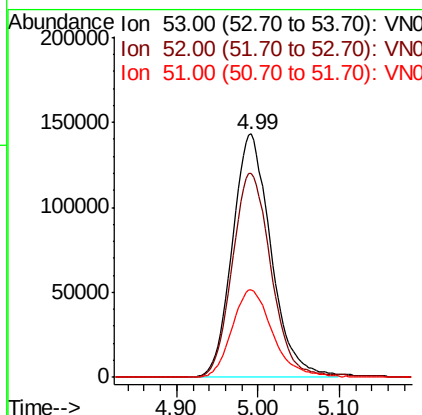
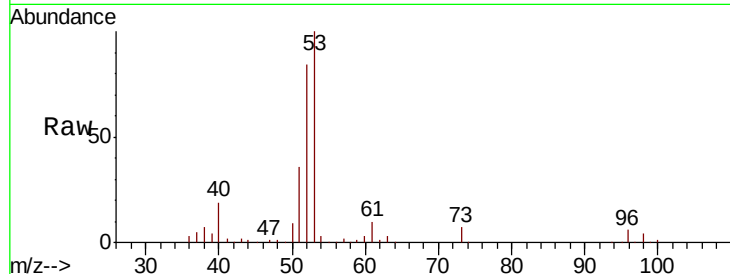
#15
 Acrylonitrile
 Concen: 230.141 ug/l
 RT: 4.99 min Scan# 1001
 Delta R.T. -0.00 min
 Lab File: VN054464.D
 Acq: 20 Mar 2019 14:55

Instrument :
 MSVOA_N
 ClientSampleId :
 ICVVN032019

Tot Ion	53	Resp	471410
Ion Ratio	100	Lower	Upper
53	100		
52	84.0	66.4	99.6
51	38.0	29.6	44.4

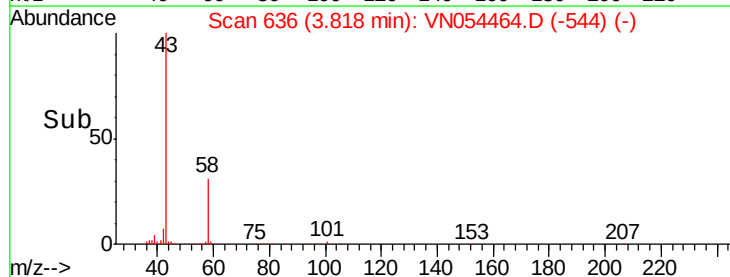
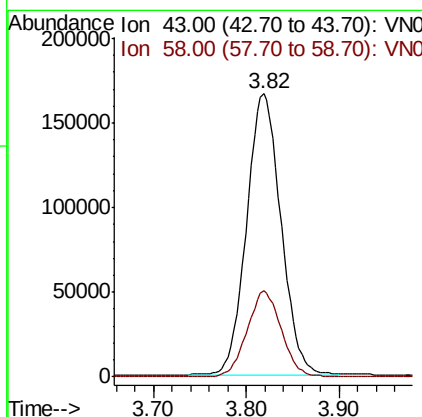
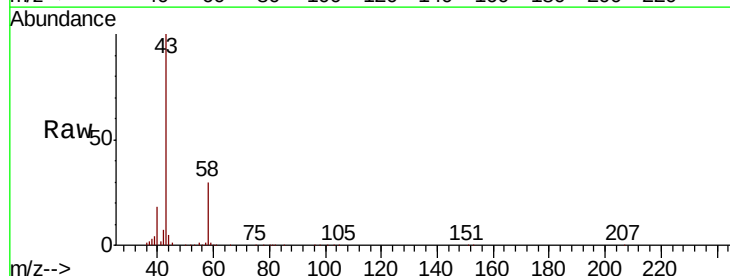
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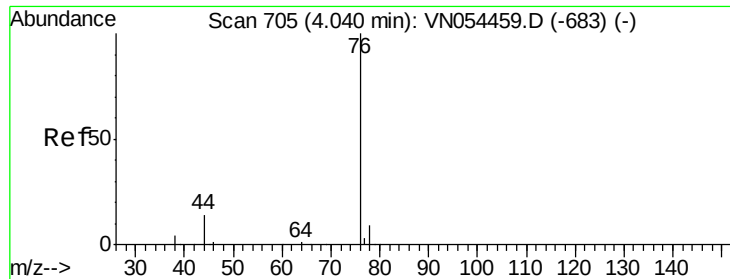
MMDadoda
 3/22/2019 3:17:30 PM



#16
 Acetone
 Concen: 208.241 ug/l
 RT: 3.82 min Scan# 636
 Delta R.T. -0.00 min
 Lab File: VN054464.D
 Acq: 20 Mar 2019 14:55

Tgt Ion	43	Resp	425356
Ion Ratio	100	Lower	Upper
43	100		
58	30.5	29.9	44.9





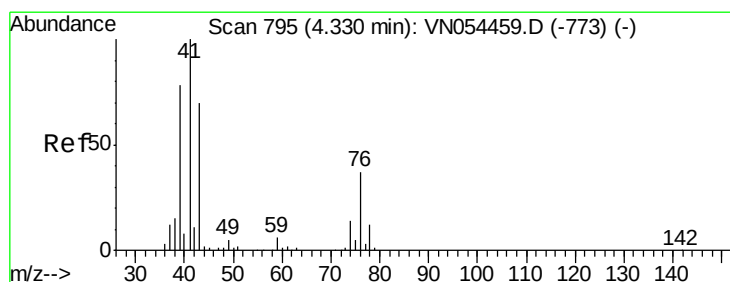
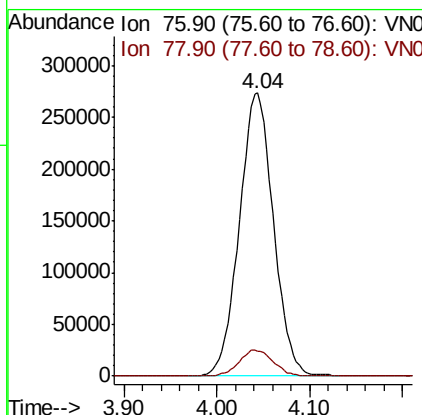
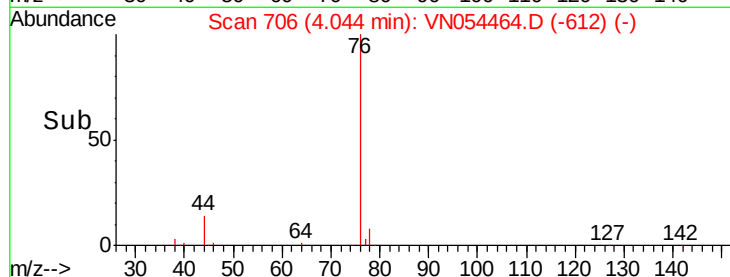
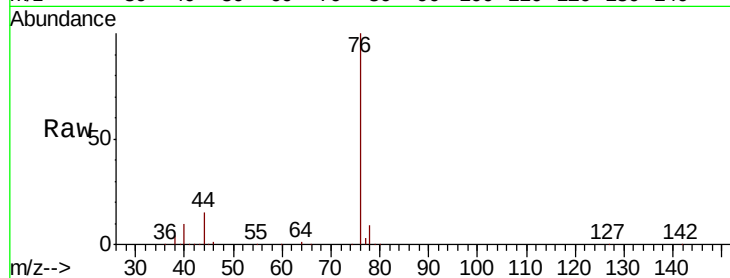
#17
Carbon Disulfide
Concen: 49.394 ug/l
RT: 4.04 min Scan# 706
Delta R.T. 0.00 min
Lab File: VN054464.D
Acq: 20 Mar 2019 14:55

Instrument :
MSVOA_N
ClientSampleId :
ICVVN032019

Tot Ion	Ratio	Lower	Upper
76	100		
78	8.9	7.5	11.3

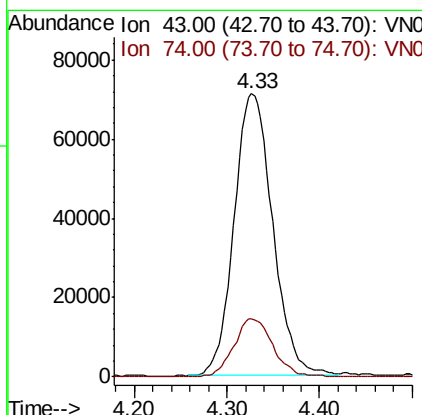
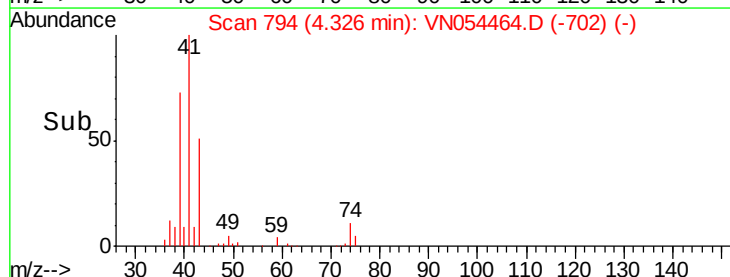
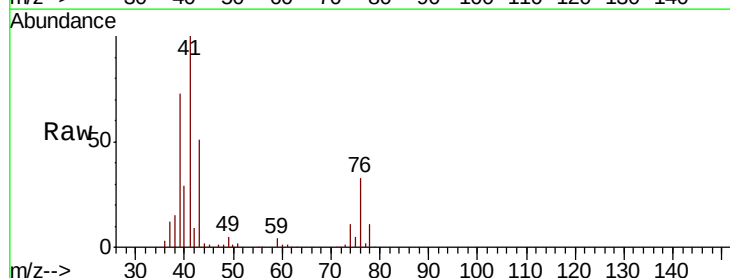
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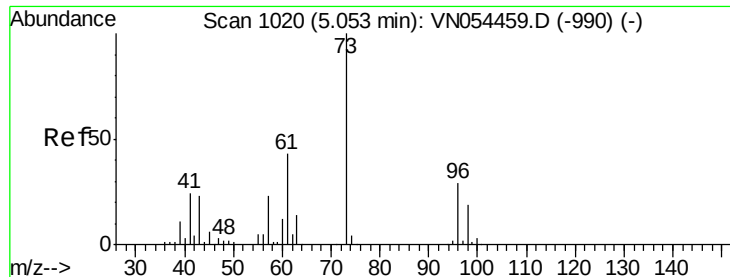
MMDadoda
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#18
Methyl Acetate
Concen: 45.221 ug/l
RT: 4.33 min Scan# 794
Delta R.T. -0.00 min
Lab File: VN054464.D
Acq: 20 Mar 2019 14:55

Tgt Ion	Ratio	Lower	Upper
43	100		
74	20.8	20.8	31.2





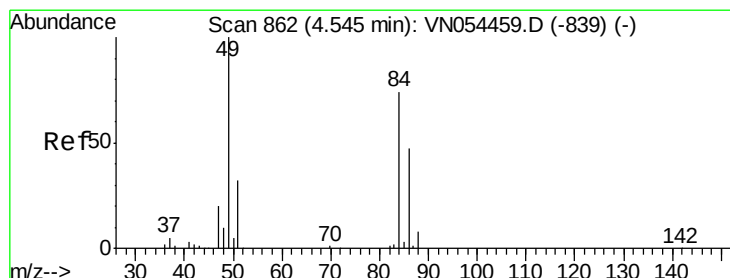
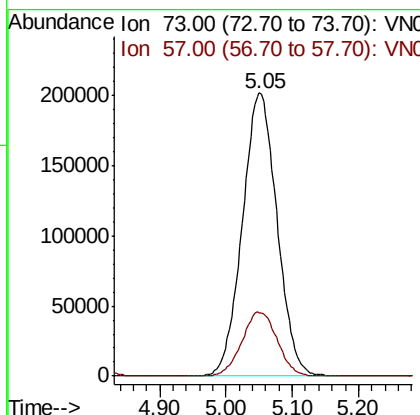
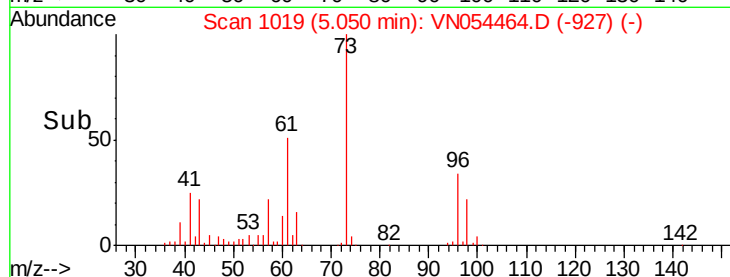
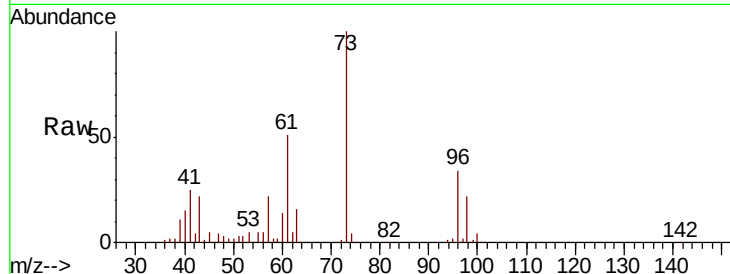
#19
Methvl tert-butvl Ether
Concen: 47.650 ug/l
RT: 5.05 min Scan# 1019
Delta R.T. -0.00 min
Lab File: VN054464.D
Acq: 20 Mar 2019 14:55

Instrument :
MSVOA_N
ClientSampleId :
ICVVN032019

Tot Ion: 73 Resp: 732648
Ion Ratio Lower Upper
73 100
57 22.4 16.8 25.2

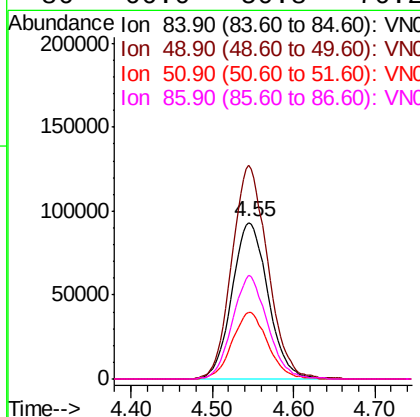
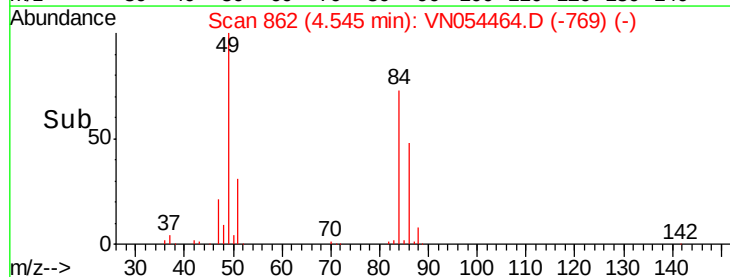
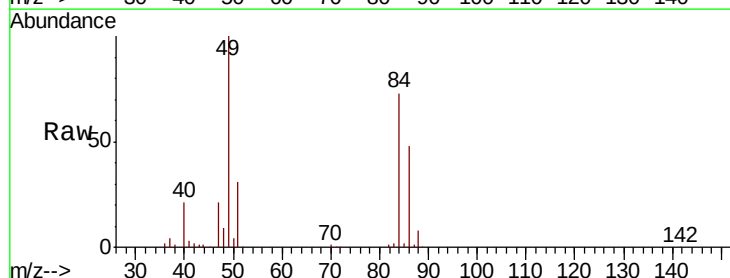
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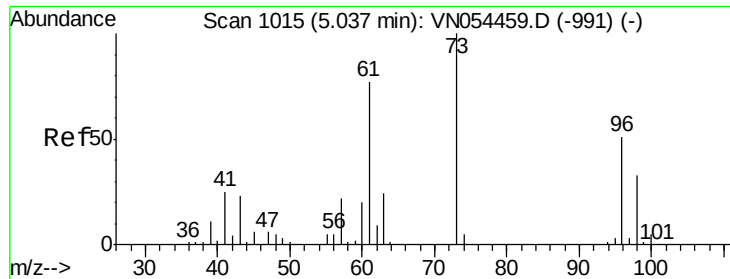
MMDadoda
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#20
Methylene Chloride
Concen: 47.564 ug/l
RT: 4.55 min Scan# 862
Delta R.T. 0.00 min
Lab File: VN054464.D
Acq: 20 Mar 2019 14:55

Tgt Ion: 84 Resp: 286391
Ion Ratio Lower Upper
84 100
49 136.5 89.7 134.5#
51 42.9 28.2 42.4#
86 66.0 50.8 76.2





#21

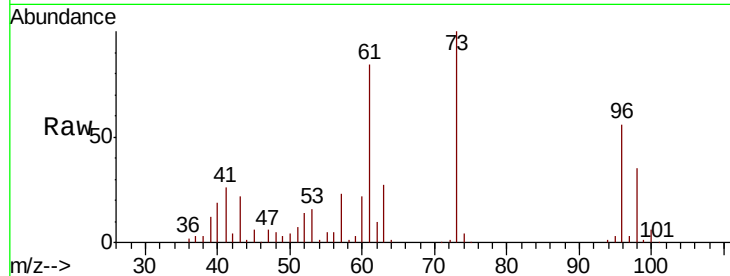
trans-1,2-Dichloroethene
Concen: 50.528 ug/l
RT: 5.03 min Scan# 1014
Delta R.T. -0.00 min
Lab File: VN054464.D
Acq: 20 Mar 2019 14:55

Instrument :
MSVOA_N
ClientSampleId :
ICVVN032019

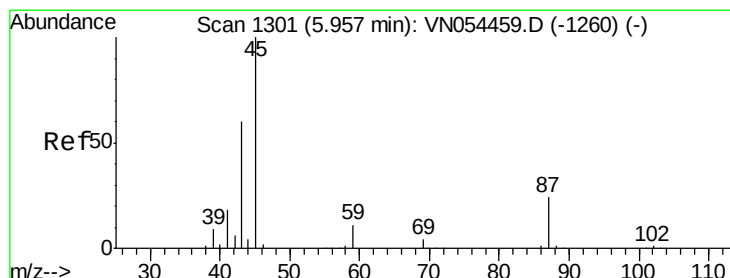
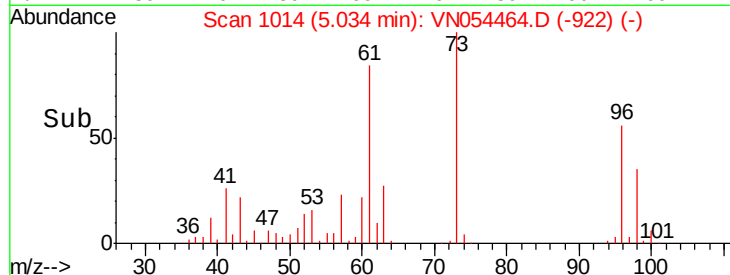
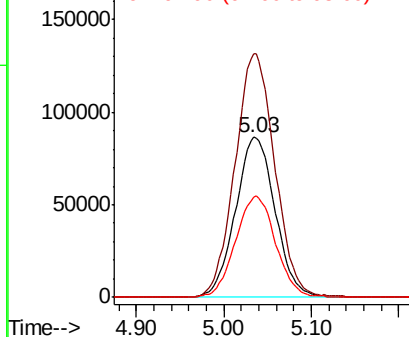
Tot Ion	Ratio	Lower	Upper
96	100		
61	151.9	102.8	154.2
98	62.9	50.0	75.0

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Abundance Ion 95.90 (95.60 to 96.60): VNC
Ion 60.90 (60.60 to 61.60): VNC
Ion 97.90 (97.60 to 98.60): VNC

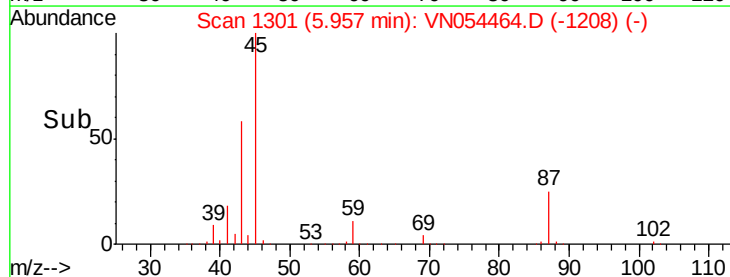
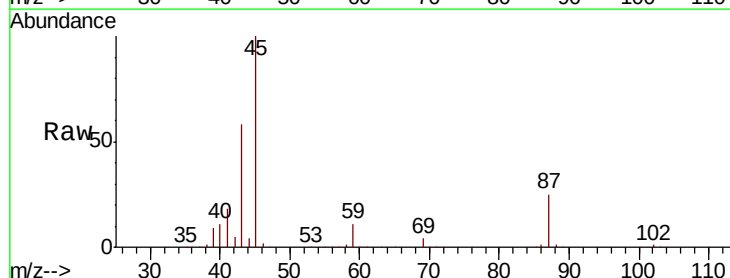
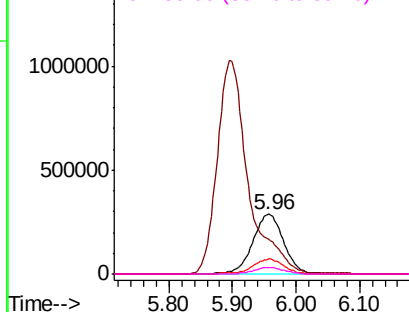


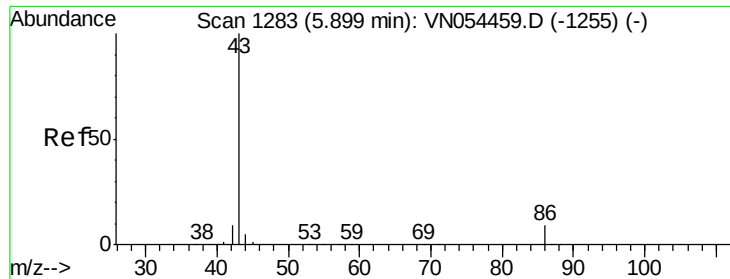
#22

Diisopropyl ether
Concen: 50.030 ug/l
RT: 5.96 min Scan# 1301
Delta R.T. 0.00 min
Lab File: VN054464.D
Acq: 20 Mar 2019 14:55

Tgt Ion	Ratio	Lower	Upper
45	100		
43	58.0	48.2	72.2
87	24.6	24.9	37.3#
59	10.4	9.5	14.3

Abundance Ion 45.00 (44.70 to 45.70): VNC
Ion 43.00 (42.70 to 43.70): VNC
Ion 87.00 (86.70 to 87.70): VNC
Ion 59.00 (58.70 to 59.70): VNC





#23

Vinyl Acetate

Concen: 252.438 ug/l

RT: 5.90 min Scan# 1282

Delta R.T. -0.00 min

Lab File: VN054464.D

Acq: 20 Mar 2019 14:55

Instrument :

MSVOA_N

ClientSampled :

ICVVN032019

Tot Ion: 43 Resp: 3488841

Ion Ratio Lower Upper

43 100

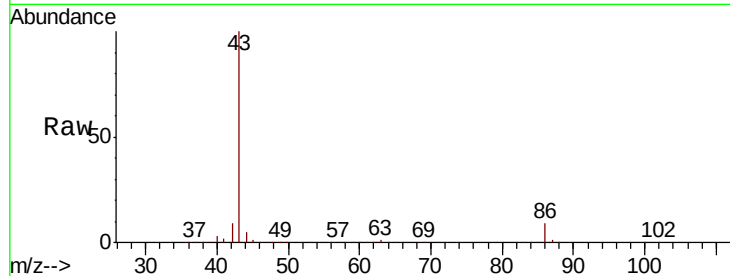
86 8.7 9.1 13.7#

Manual Integrations

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Abundance Ion 43.00 (42.70 to 43.70): VN0

Ion 86.00 (85.70 to 86.70): VN0

1200000

1000000

800000

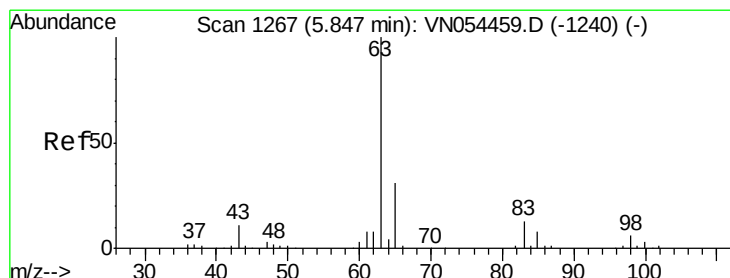
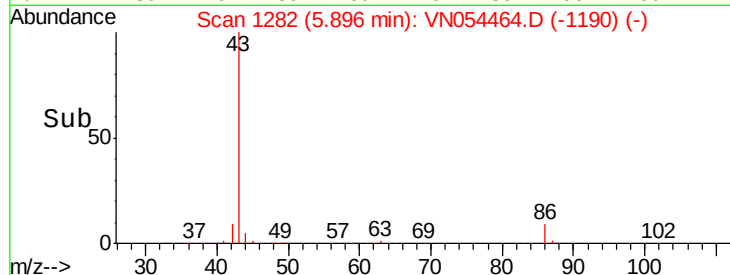
600000

400000

200000

0

Time--> 5.70 5.80 5.90 6.00 6.10



#24

1,1-Dichloroethane

Concen: 49.468 ug/l

RT: 5.84 min Scan# 1266

Delta R.T. -0.00 min

Lab File: VN054464.D

Acq: 20 Mar 2019 14:55

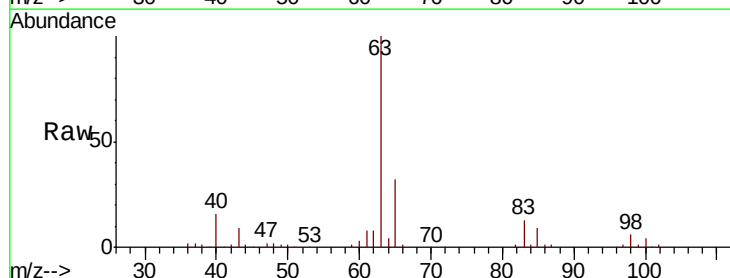
Tgt Ion: 63 Resp: 521205

Ion Ratio Lower Upper

63 100

98 6.2 3.5 10.5

100 3.7 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

200000

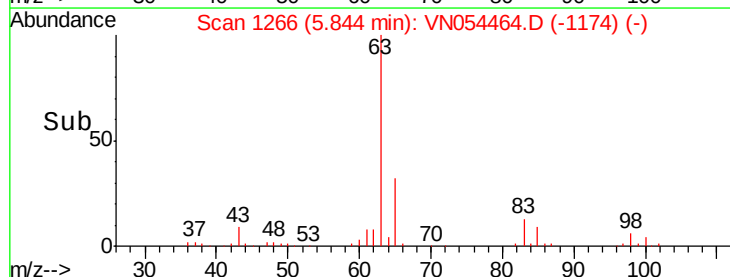
150000

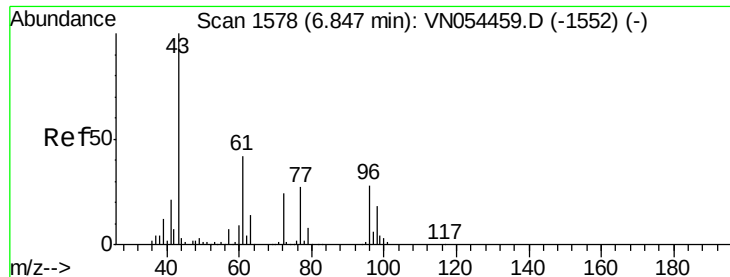
100000

50000

0

Time--> 5.70 5.80 5.90





#25

2-Butanone

Concen: 232.766 ug/l

RT: 6.84 min Scan# 1577

Delta R.T. -0.00 min

Lab File: VN054464.D

Acq: 20 Mar 2019 14:55

Instrument :

MSVOA_N

ClientSampleId :

ICVVO32019

Tot Ion: 43 Resp: 609052

Ion Ratio Lower Upper

43 100

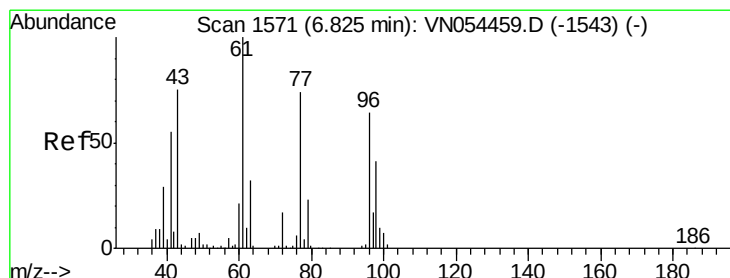
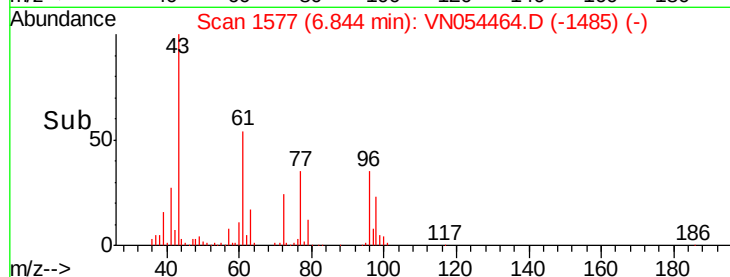
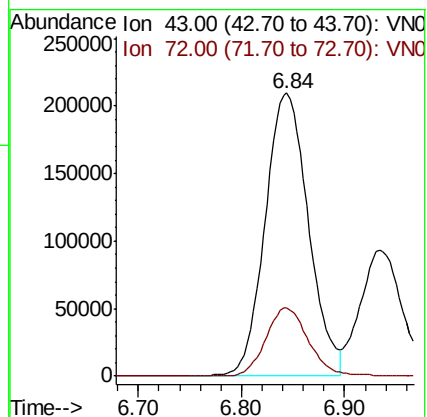
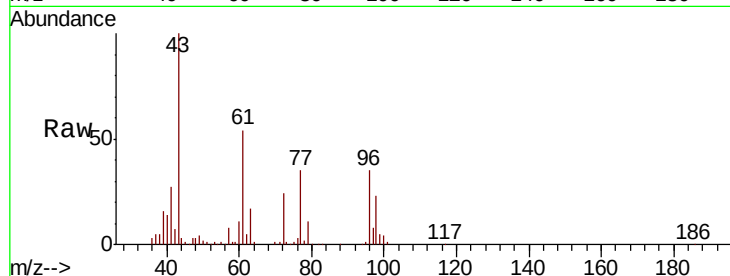
72 24.1 23.0 34.6

Manual Integrations

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#26

2,2-Dichloropropane

Concen: 50.949 ug/l

RT: 6.82 min Scan# 1570

Delta R.T. -0.00 min

Lab File: VN054464.D

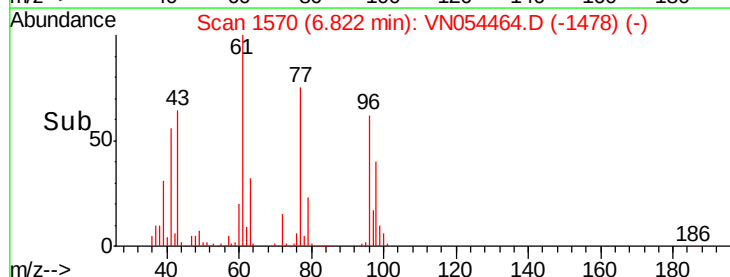
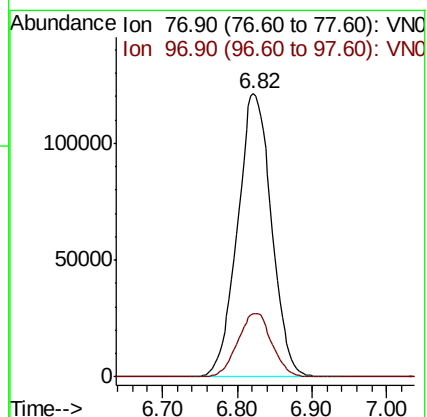
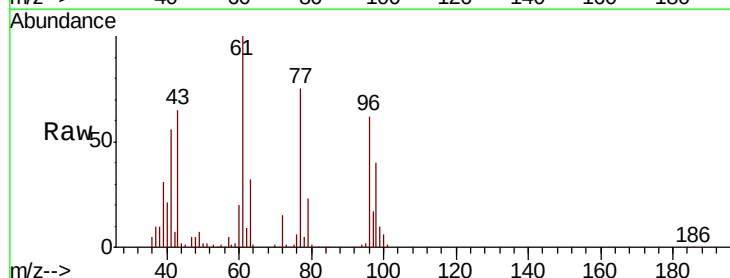
Acq: 20 Mar 2019 14:55

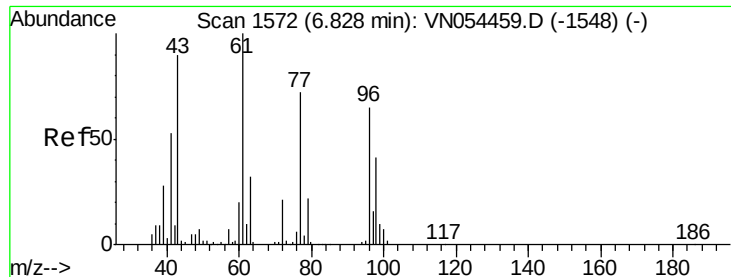
Tgt Ion: 77 Resp: 382669

Ion Ratio Lower Upper

77 100

97 22.5 11.9 35.9





#27

cis-1,2-Dichloroethene

Concen: 48.495 ug/l

RT: 6.83 min Scan# 1573

Delta R.T. 0.00 min

Lab File: VN054464.D

Acq: 20 Mar 2019 14:55

Instrument :

MSVOA_N

ClientSampleId :

ICVVN032019

Tot Ion: 96 Resp: 311178

Ion Ratio Lower Upper

96 100

61 156.6 0.0 273.0

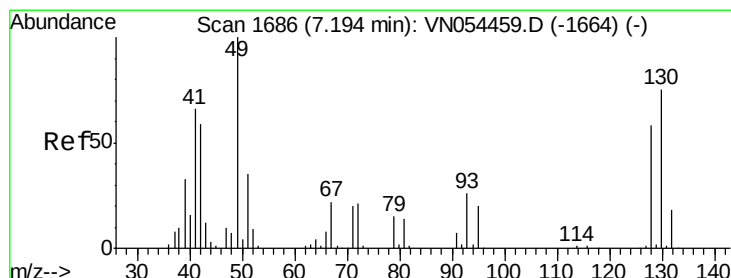
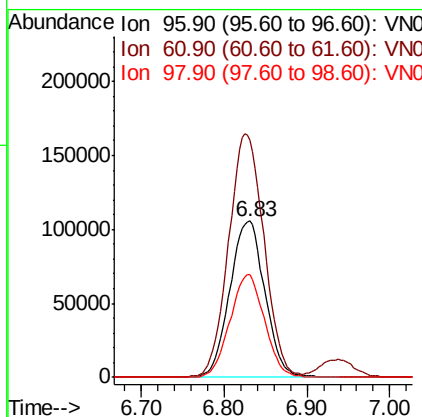
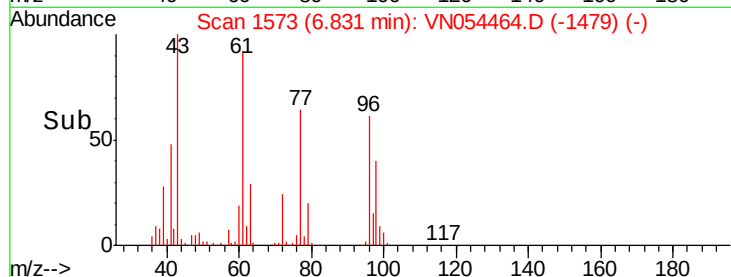
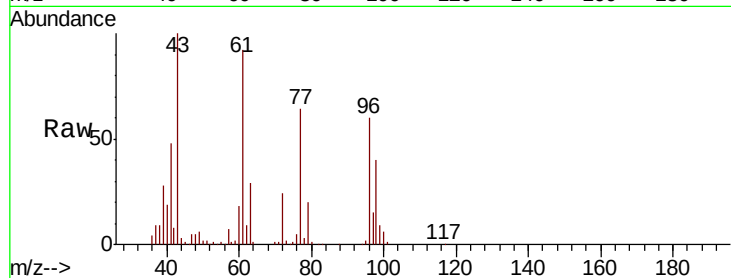
98 64.6 0.0 130.6

Manual Integrations

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MMDadoda

3/22/2019 3:17:30 PM



#28

Bromochloromethane

Concen: 49.850 ug/l

RT: 7.19 min Scan# 1686

Delta R.T. 0.00 min

Lab File: VN054464.D

Acq: 20 Mar 2019 14:55

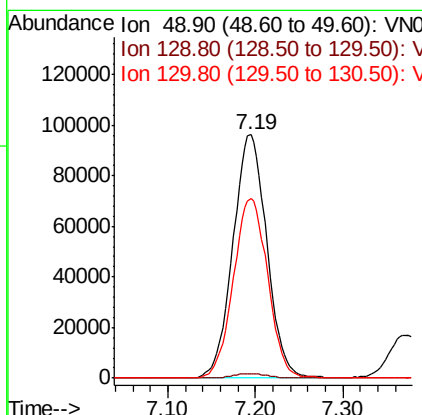
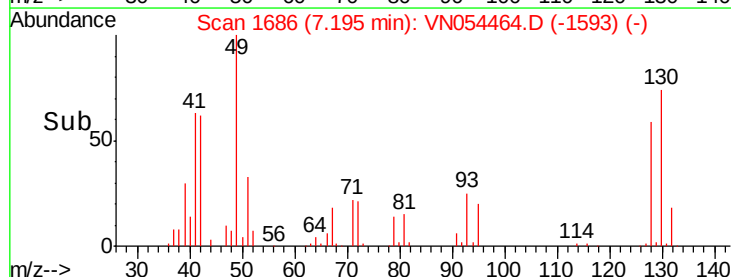
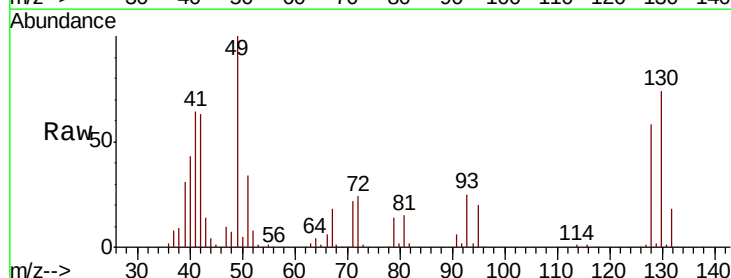
Tgt Ion: 49 Resp: 258534

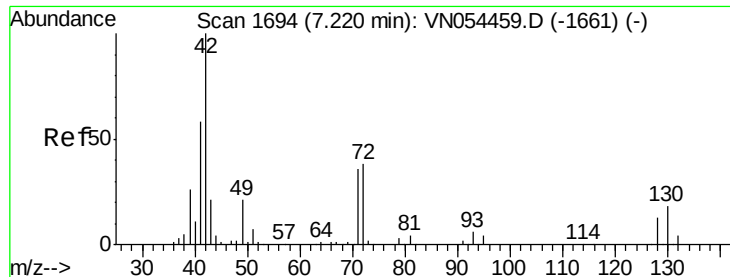
Ion Ratio Lower Upper

49 100

129 1.9 0.0 4.6

130 74.9 76.7 115.1#





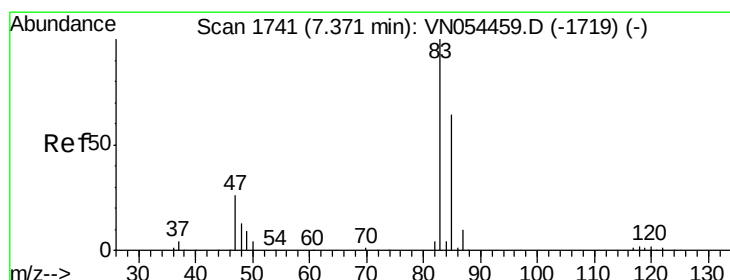
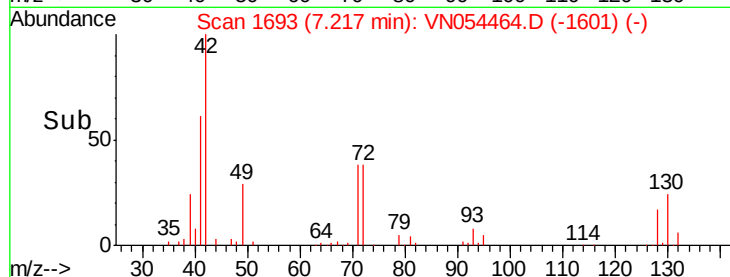
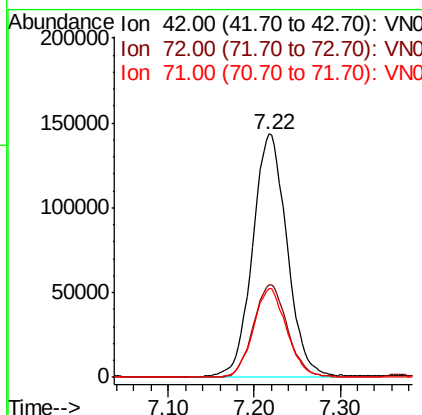
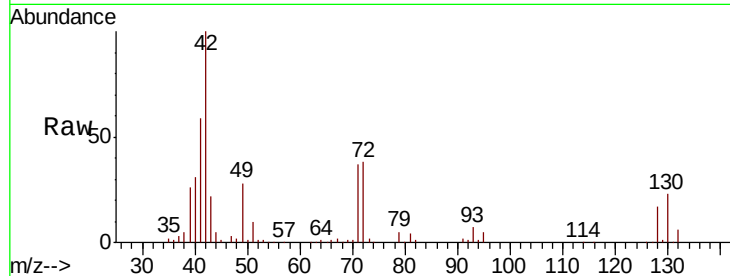
#29
Tetrahydrofuran
Concen: 235.246 ug/l
RT: 7.22 min Scan# 1693
Delta R.T. -0.00 min
Lab File: VN054464.D
Acq: 20 Mar 2019 14:55

Instrument :
MSVOA_N
ClientSampleId :
ICVVN032019

Tot Ion	Ratio	Lower	Upper
42	100		
72	37.9	37.8	56.6
71	35.9	36.2	54.2#

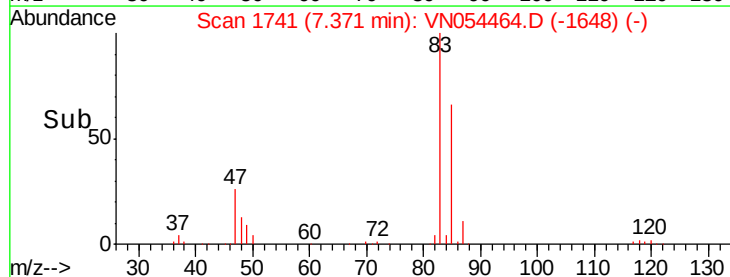
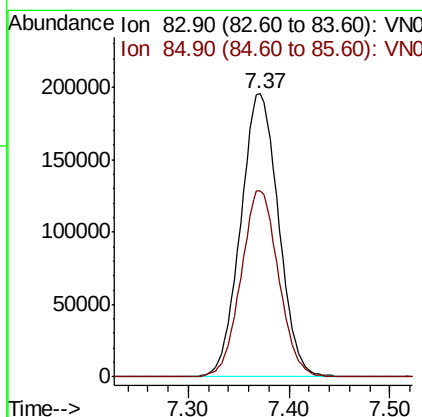
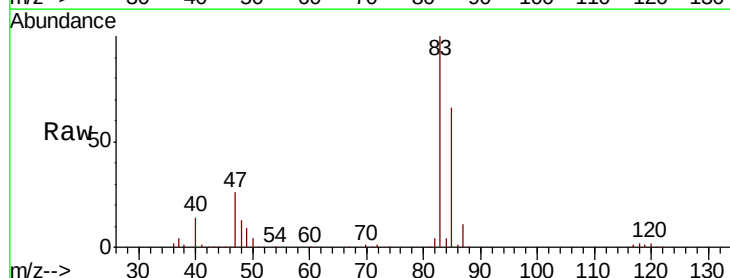
Manual Integrations
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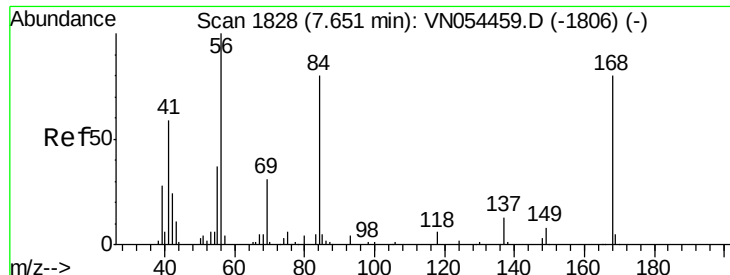
MMDadoda
3/22/2019 3:17:30 PM



#30
Chloroform
Concen: 49.590 ug/l
RT: 7.37 min Scan# 1741
Delta R.T. 0.00 min
Lab File: VN054464.D
Acq: 20 Mar 2019 14:55

Tgt Ion	Ratio	Lower	Upper
83	100		
85	66.0	52.2	78.4





#31

Cyclohexane

Concen: 52.110 ug/l

RT: 7.65 min Scan# 1828

Delta R.T. 0.00 min

Lab File: VN054464.D

Acq: 20 Mar 2019 14:55

Instrument :

MSVOA_N

ClientSampleId :

ICVVN032019

Tot Ion: 56 Resp: 525308

Ion Ratio Lower Upper

56 100

69 31.6 27.8 41.6

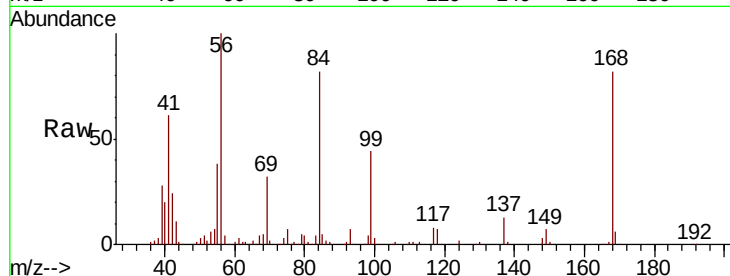
84 80.5 74.6 111.8

Manual Integrations

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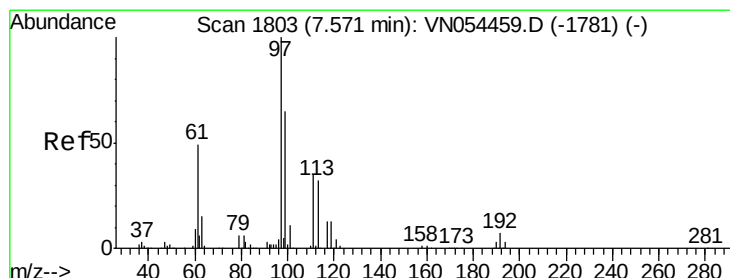
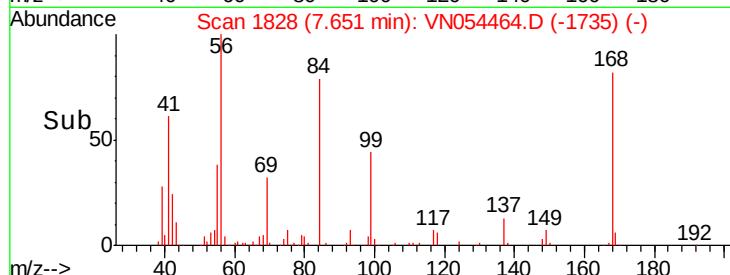
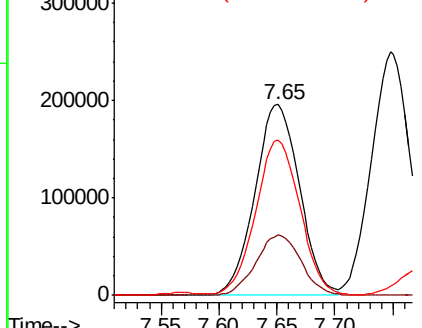
3/22/2019 3:17:30 PM



Abundance Ion 56.00 (55.70 to 56.70): VN0

Ion 69.00 (68.70 to 69.70): VN0

Ion 84.00 (83.70 to 84.70): VN0



#32

1,1,1-Trichloroethane

Concen: 51.887 ug/l

RT: 7.57 min Scan# 1803

Delta R.T. 0.00 min

Lab File: VN054464.D

Acq: 20 Mar 2019 14:55

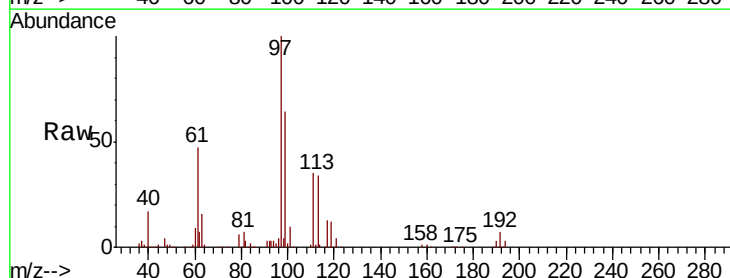
Tgt Ion: 97 Resp: 440167

Ion Ratio Lower Upper

97 100

99 63.5 51.5 77.3

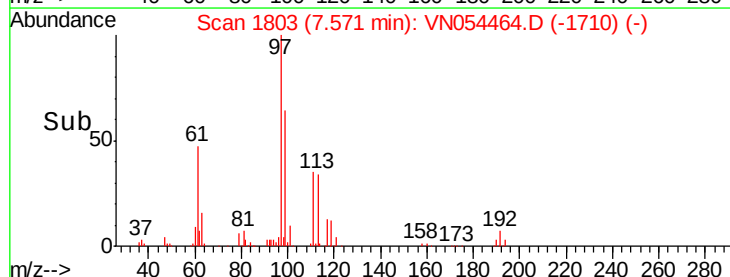
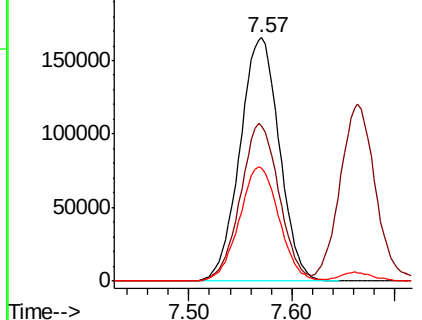
61 47.3 33.6 50.4

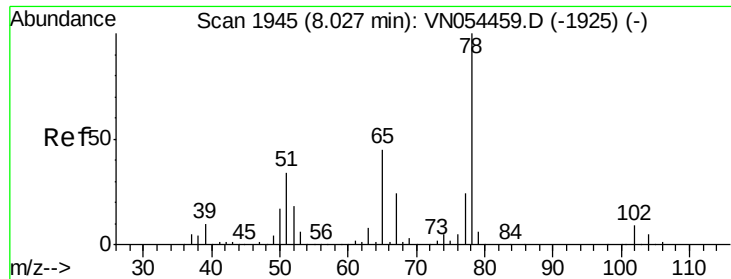


Abundance Ion 96.90 (96.60 to 97.60): VN0

Ion 98.90 (98.60 to 99.60): VN0

Ion 60.90 (60.60 to 61.60): VN0





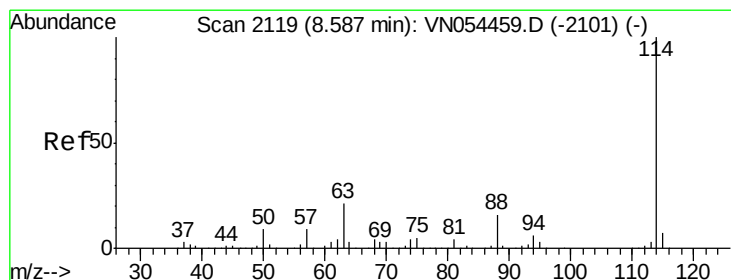
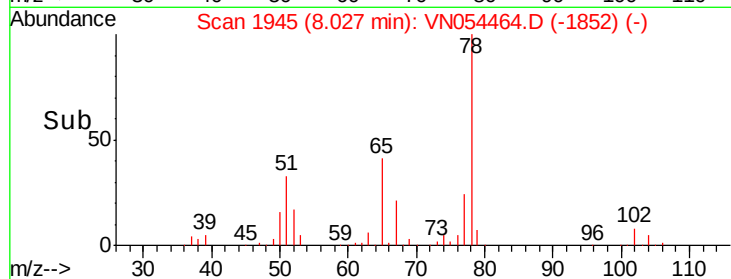
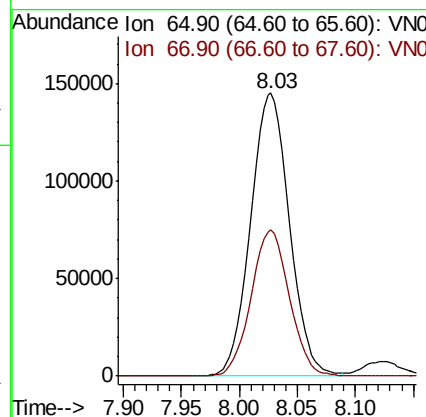
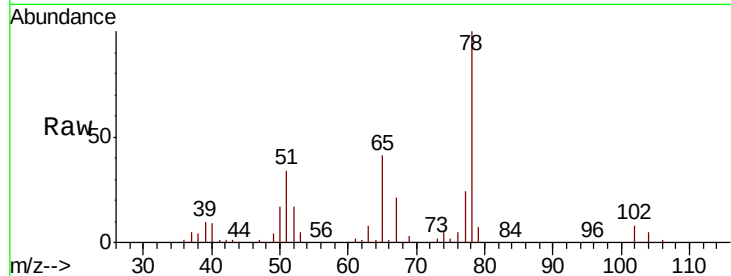
#33
 1,2-Dichloroethane-d4
 Concen: 49.777 ug/l
 RT: 8.03 min Scan# 1945
 Delta R.T. 0.00 min
 Lab File: VN054464.D
 Acq: 20 Mar 2019 14:55

Instrument :
 MSVOA_N
 ClientSampleId :
 ICVVN032019

Tot Ion	Ratio	Resp	Lower	Upper
65	100			
67	51.3	0.0	104.6	

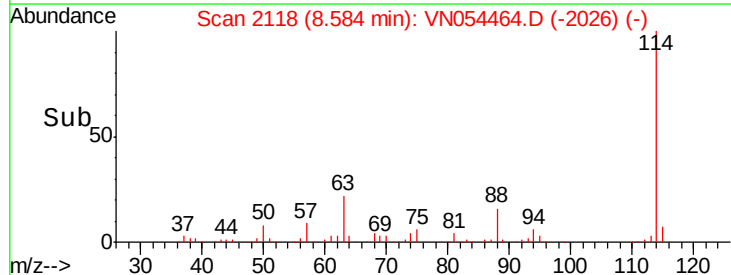
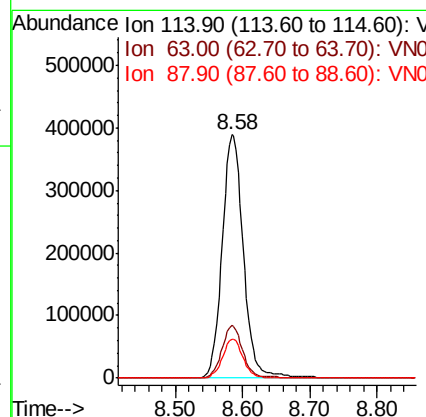
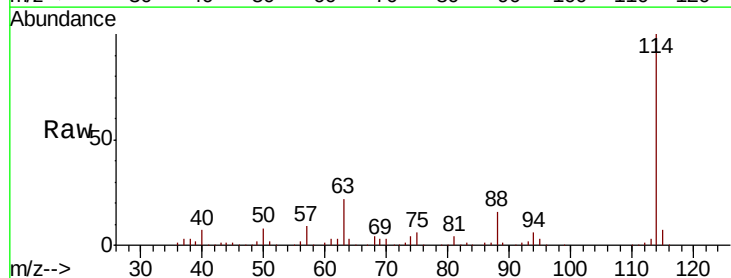
Manual Integrations
 APPROVED

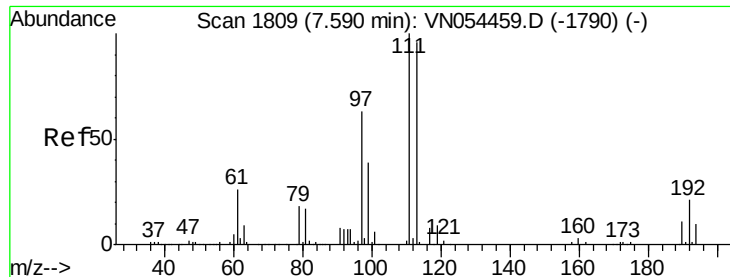
MMDadoda
 3/22/2019 3:17:30 PM



#34
 1,4-Difluorobenzene
 Concen: 50.000 ug/l
 RT: 8.58 min Scan# 2118
 Delta R.T. -0.00 min
 Lab File: VN054464.D
 Acq: 20 Mar 2019 14:55

Tgt Ion	Ratio	Resp	Lower	Upper
114	100			
63	21.6	0.0	35.2	
88	16.0	0.0	30.2	





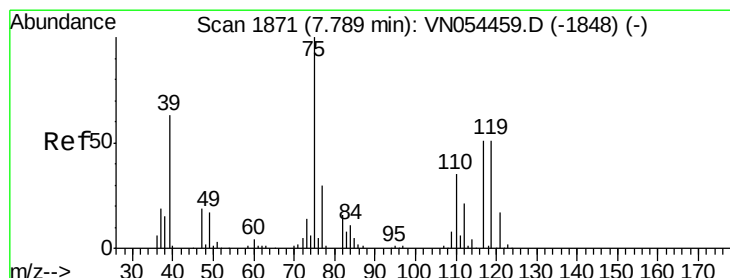
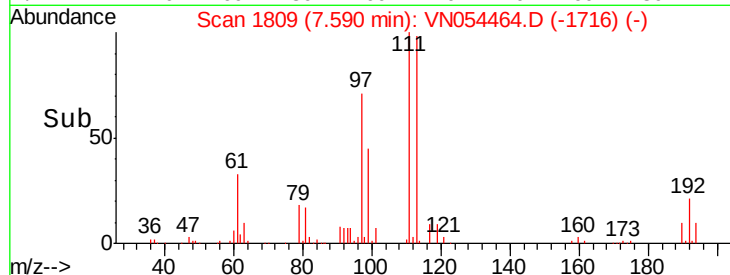
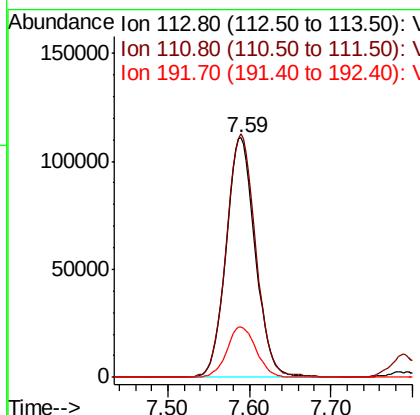
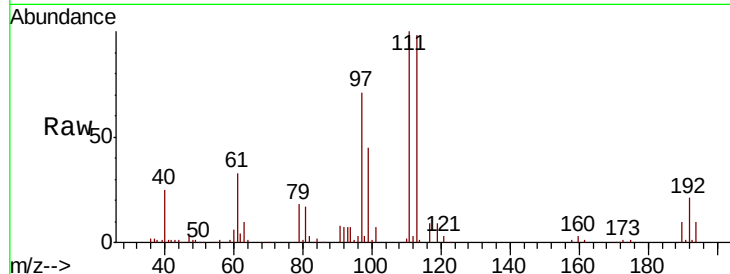
#35
 Dibromofluoromethane
 Concen: 50.111 ug/l
 RT: 7.59 min Scan# 1809
 Delta R.T. 0.00 min
 Lab File: VN054464.D
 Acq: 20 Mar 2019 14:55

Instrument :
 MSVOA_N
 ClientSampleId :
 ICVVN032019

Tot Ion	Ratio	Resp	Lower	Upper
113	100	277693		
111	102.6	82.2	123.4	
192	21.1	19.2	28.8	

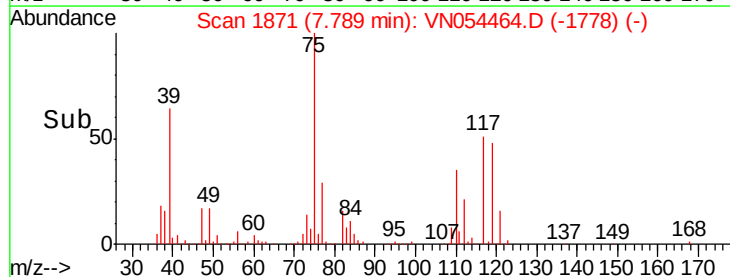
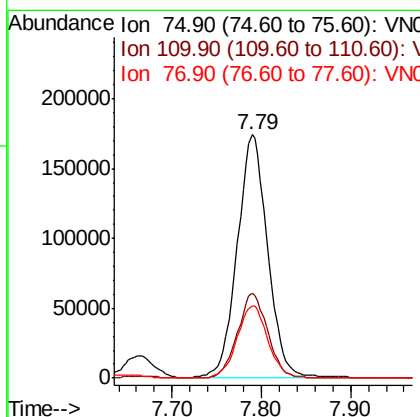
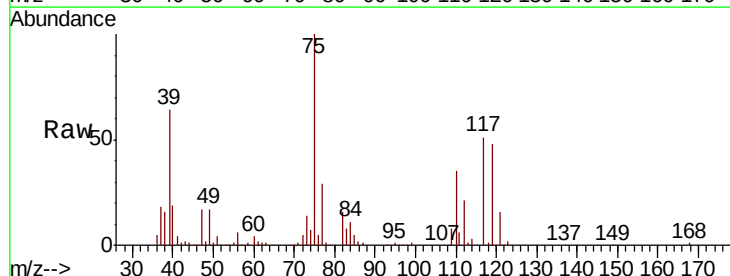
Manual Integrations
 APPROVED

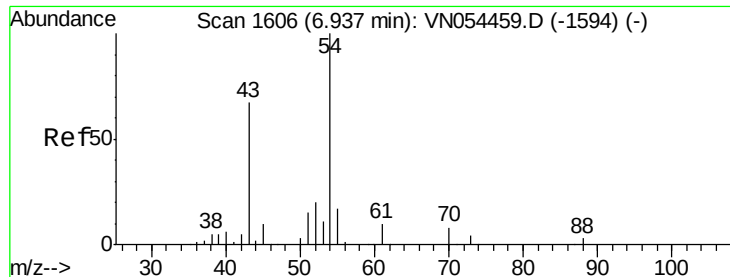
MMDadoda
 3/22/2019 3:17:30 PM



#36
 1,1-Dichloropropene
 Concen: 50.835 ug/l
 RT: 7.79 min Scan# 1871
 Delta R.T. 0.00 min
 Lab File: VN054464.D
 Acq: 20 Mar 2019 14:55

Tgt Ion	Ratio	Resp	Lower	Upper
75	100	408840		
110	34.9	19.1	57.5	
77	30.5	25.0	37.4	





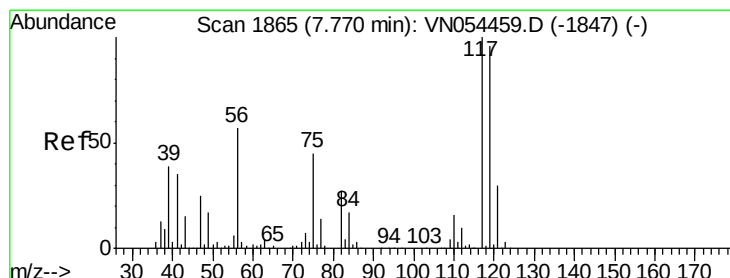
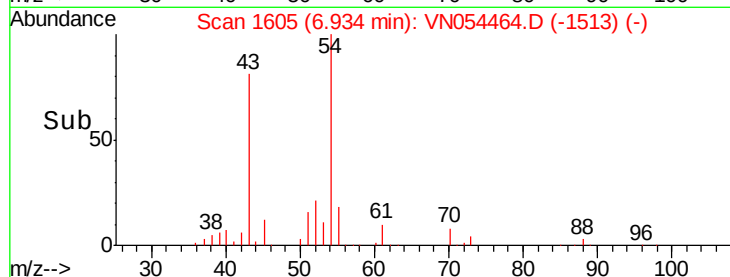
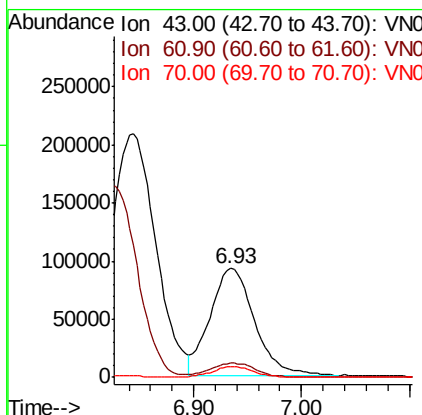
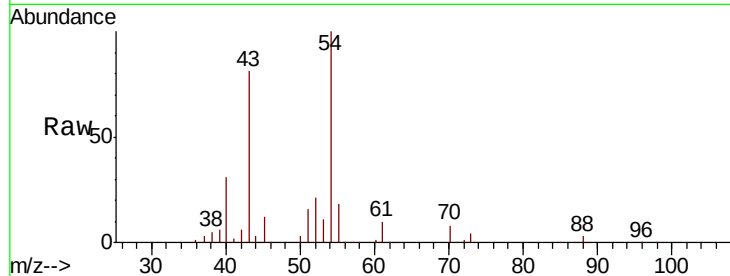
#37
Ethyl Acetate
Concen: 46.431 ug/l
RT: 6.93 min Scan# 1605
Delta R.T. -0.00 min
Lab File: VN054464.D
Acq: 20 Mar 2019 14:55

Instrument :
MSVOA_N
ClientSampleId :
ICVVN032019

Tot Ion	Ratio	Lower	Upper
43	100		
61	13.1	11.8	17.6
70	9.0	8.4	12.6

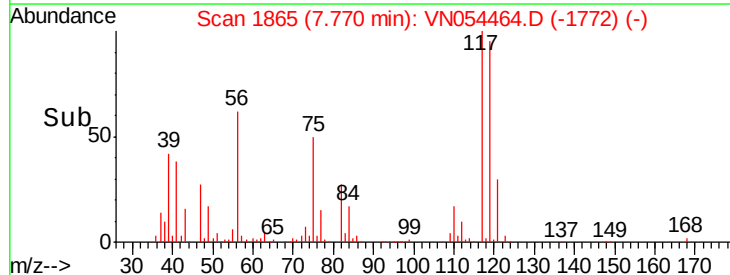
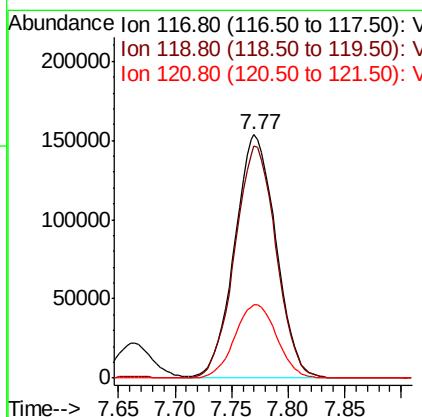
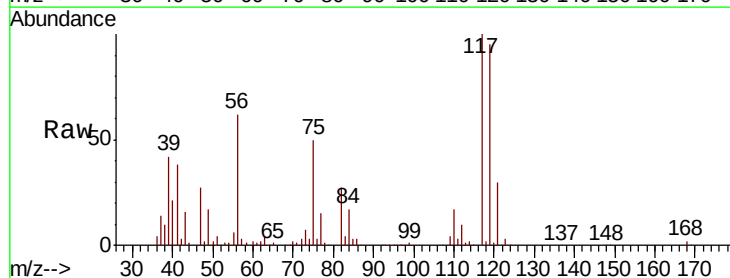
Manual Integrations
APPROVED

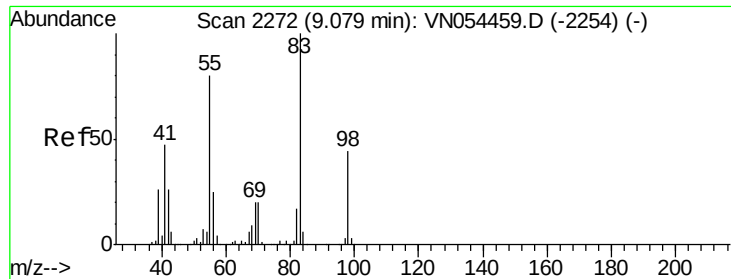
MMDadoda
3/22/2019 3:17:30 PM



#38
Carbon Tetrachloride
Concen: 49.677 ug/l
RT: 7.77 min Scan# 1865
Delta R.T. 0.00 min
Lab File: VN054464.D
Acq: 20 Mar 2019 14:55

Tgt Ion	Ratio	Lower	Upper
117	100		
119	95.3	76.3	114.5
121	30.2	24.6	36.8





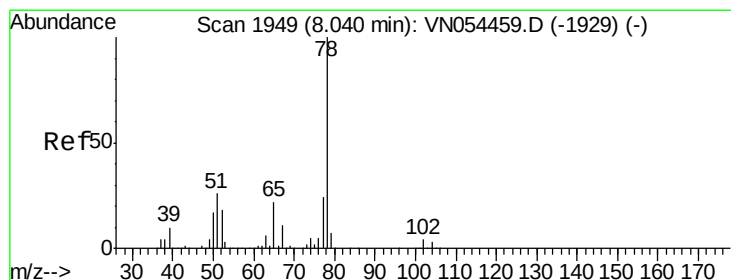
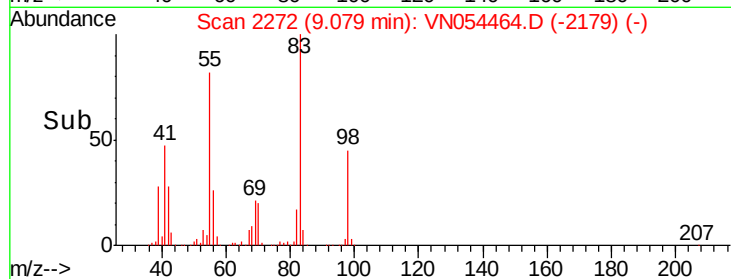
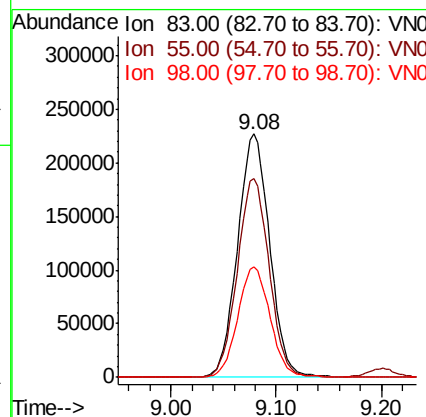
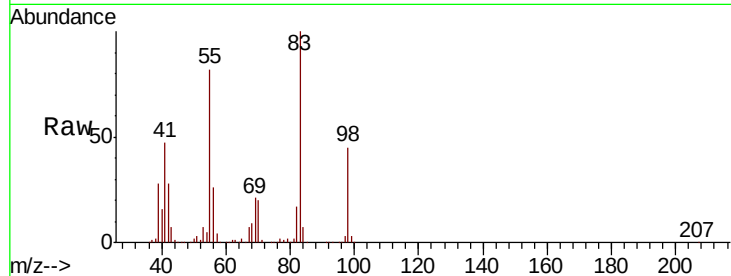
#39
Methylvlcyclohexane
Concen: 52.042 ug/l
RT: 9.08 min Scan# 2272
Delta R.T. 0.00 min
Lab File: VN054464.D
Acq: 20 Mar 2019 14:55

Instrument :
MSVOA_N
ClientSampleId :
ICVVN032019

Tot Ion	Ratio	Lower	Upper
83	100		
55	81.7	56.6	84.8
98	45.2	38.4	57.6

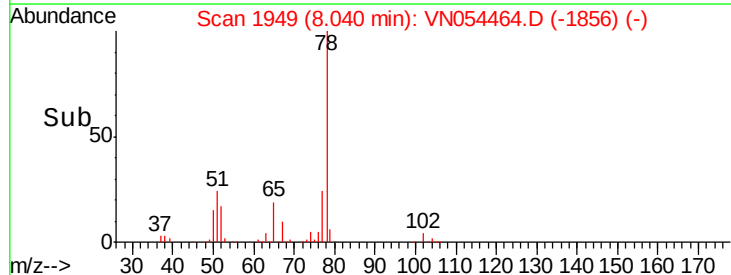
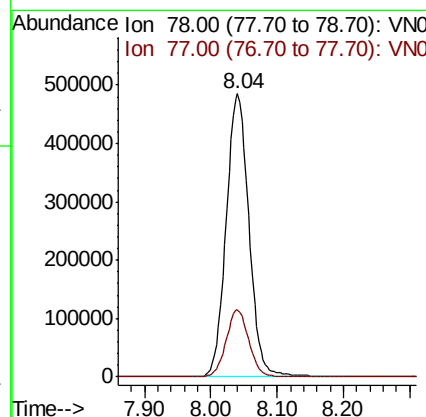
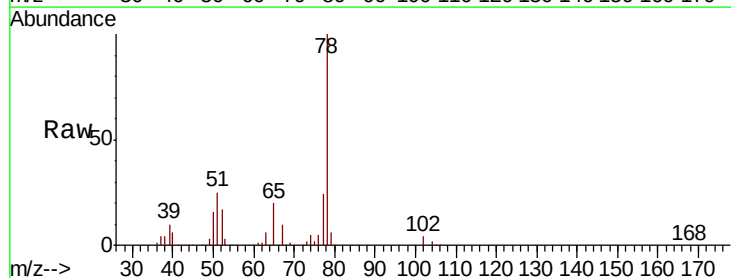
Manual Integrations
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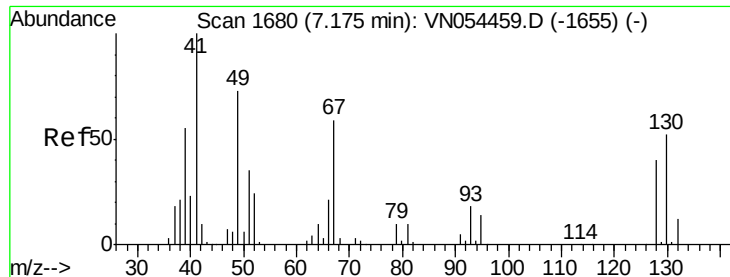
MMDadoda
3/22/2019 3:17:30 PM



#40
Benzene
Concen: 50.396 ug/l
RT: 8.04 min Scan# 1949
Delta R.T. 0.00 min
Lab File: VN054464.D
Acq: 20 Mar 2019 14:55

Tgt Ion	Ratio	Lower	Upper
78	100		
77	23.7	19.1	28.7





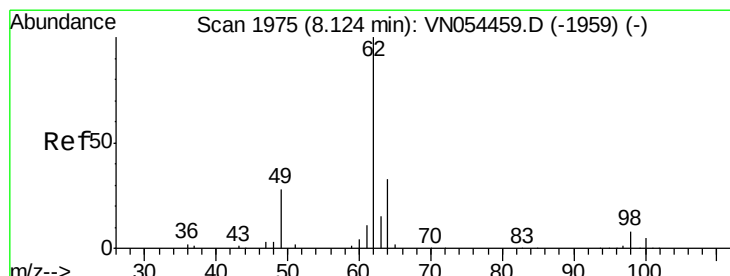
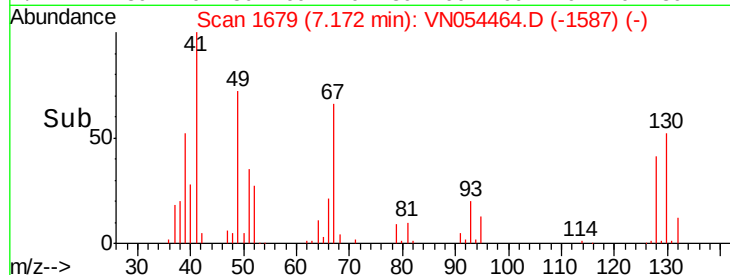
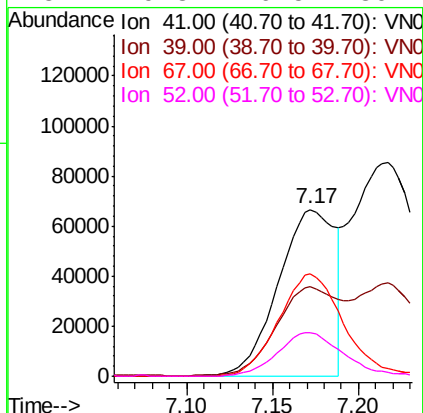
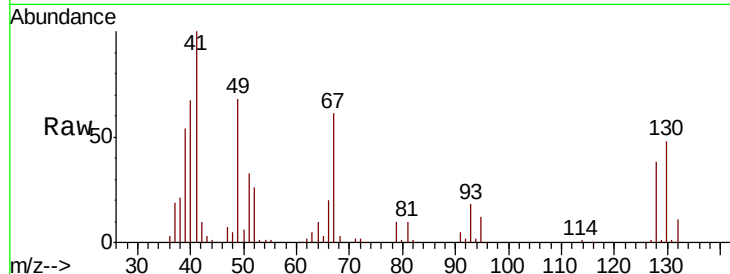
#41
Methacrylonitrile
Concen: 43.513 ug/l
RT: 7.17 min Scan# 1679
Delta R.T. -0.00 min
Lab File: VN054464.D
Acq: 20 Mar 2019 14:55

Instrument :
MSVOA_N
ClientSampleId :
ICVVN032019

Tot Ion	Ratio	Lower	Upper
41	100		
39	61.7	46.8	70.2
67	71.3	67.0	100.4
52	29.8	26.5	39.7

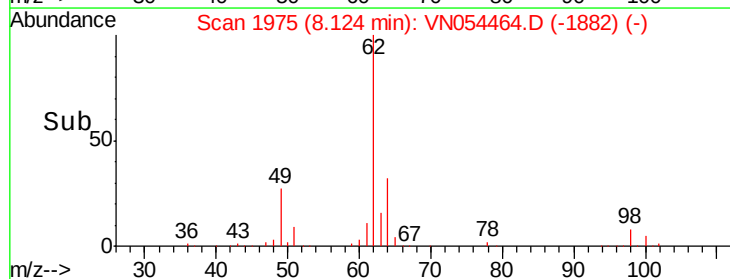
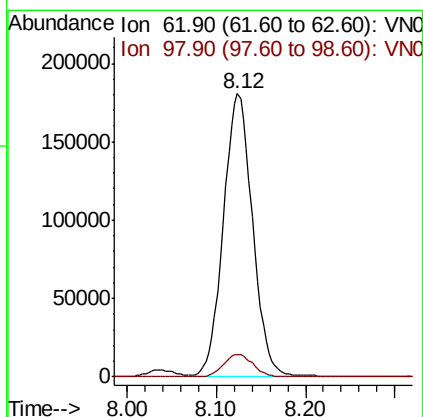
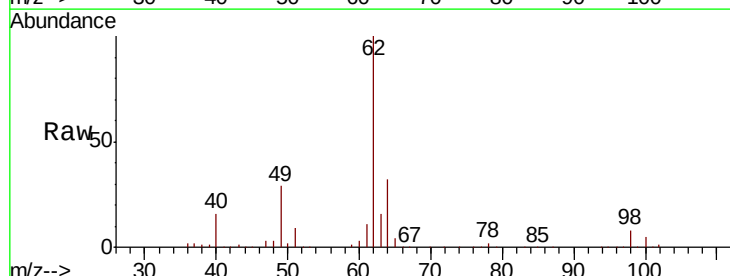
Manual Integrations
APPROVED

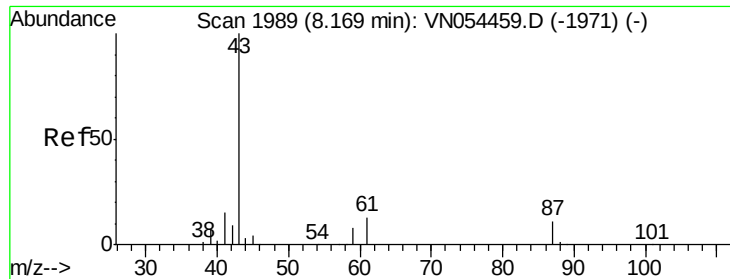
MMDadoda
3/22/2019 3:17:30 PM



#42
1,2-Dichloroethane
Concen: 48.779 ug/l
RT: 8.12 min Scan# 1975
Delta R.T. 0.00 min
Lab File: VN054464.D
Acq: 20 Mar 2019 14:55

Tgt Ion	Ratio	Lower	Upper
62	100		
98	8.2	0.0	18.4





#43

Isopropyl Acetate

Concen: 48.697 ug/l

RT: 8.17 min Scan# 1989

Delta R.T. 0.00 min

Lab File: VN054464.D

Acq: 20 Mar 2019 14:55

Instrument :

MSVOA_N

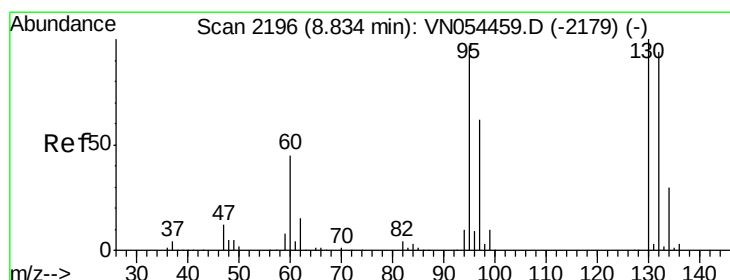
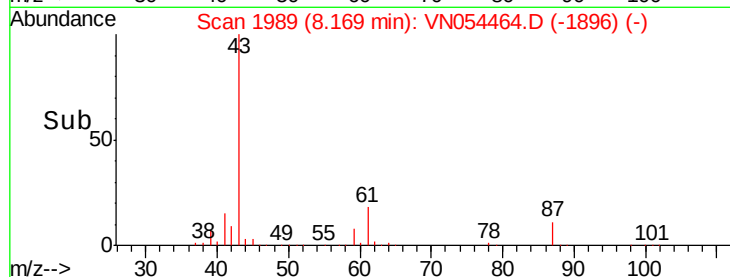
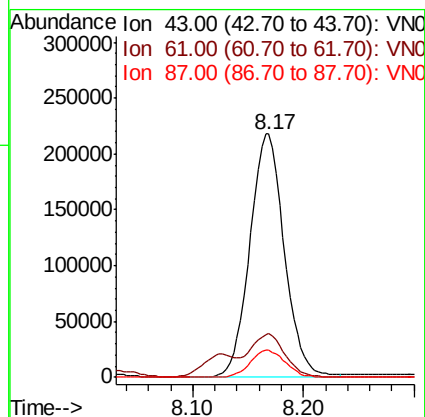
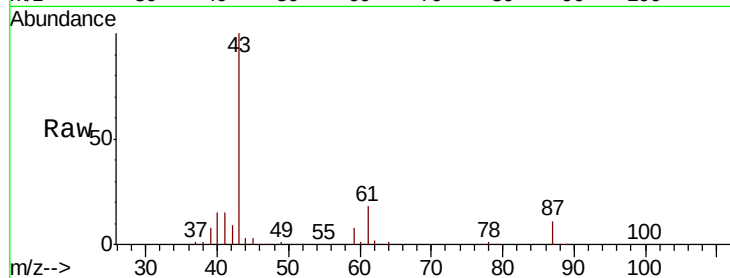
ClientSampleId :

ICVVN032019

Tot Ion:	43	Resp:	470437
Ion	Ratio	Lower	Upper
43	100		
61	17.6	15.8	23.8
87	11.4	12.0	18.0#

Manual Integrations
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#44

Trichloroethene

Concen: 49.807 ug/l

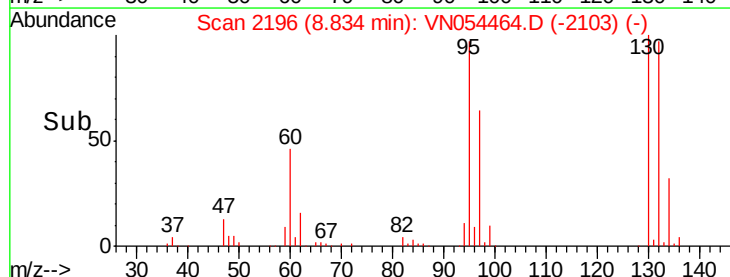
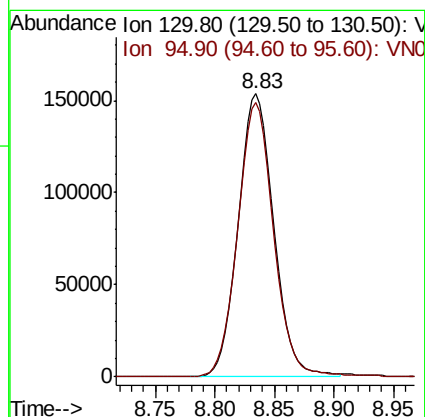
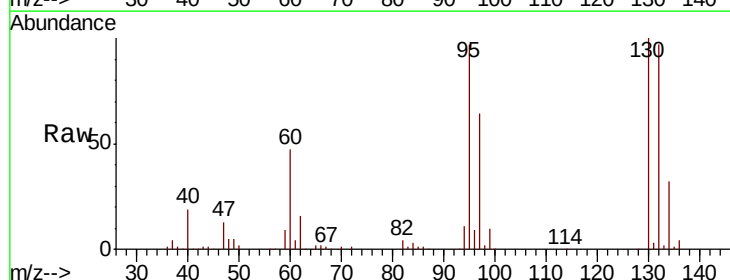
RT: 8.83 min Scan# 2196

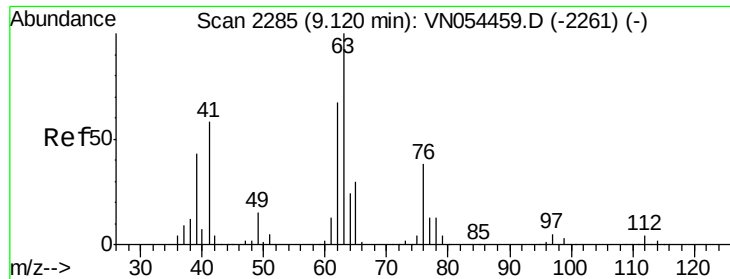
Delta R.T. 0.00 min

Lab File: VN054464.D

Acq: 20 Mar 2019 14:55

Tgt Ion:	130	Resp:	318465
Ion	Ratio	Lower	Upper
130	100		
95	97.1	0.0	185.2





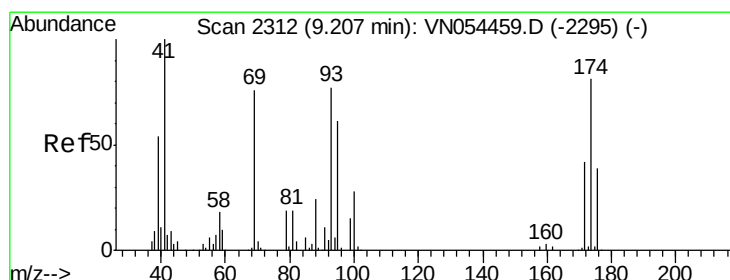
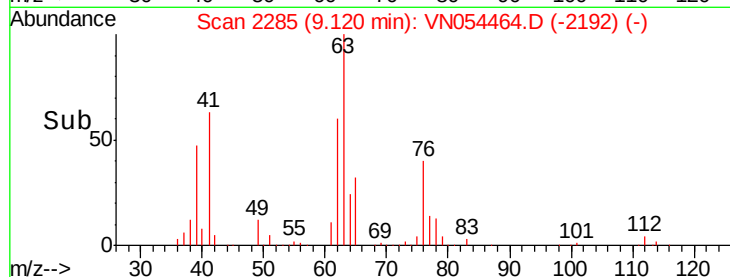
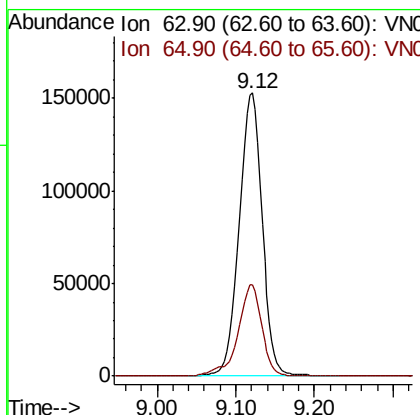
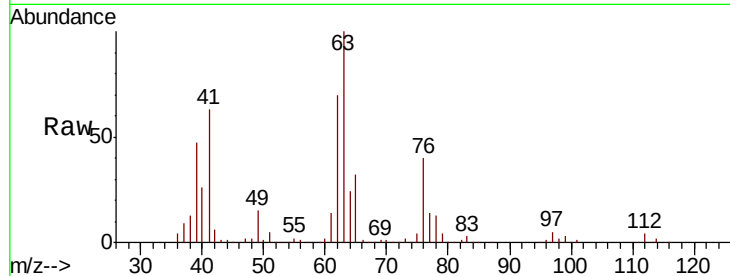
#45
 1,2-Dichloropropane
 Concen: 50.857 ug/l
 RT: 9.12 min Scan# 2285
 Delta R.T. 0.00 min
 Lab File: VN054464.D
 Acq: 20 Mar 2019 14:55

Instrument :
 MSVOA_N
 ClientSampled :
 ICVVN032019

Tot Ion	Ratio	Lower	Upper
63	100		
65	32.4	25.0	37.6

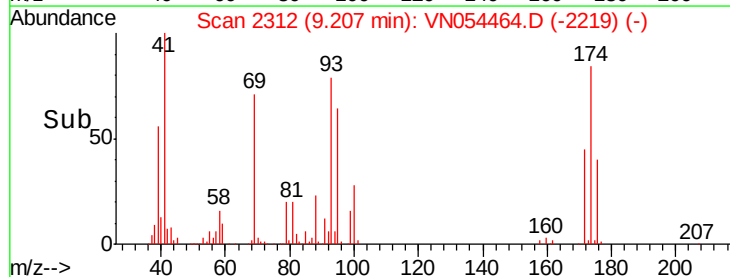
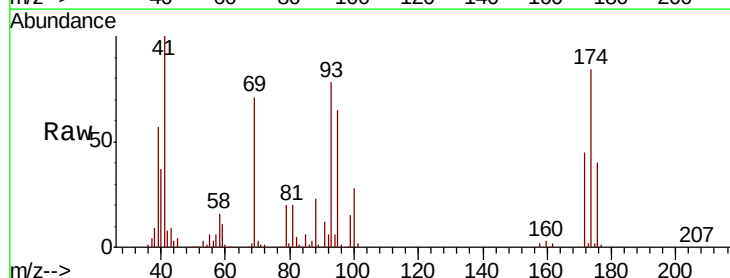
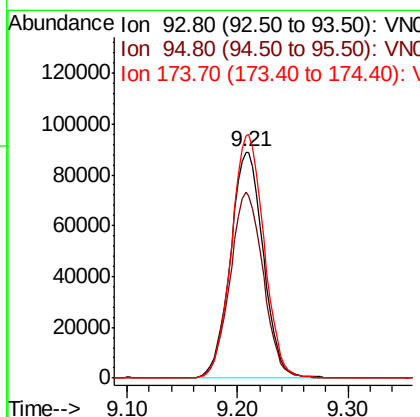
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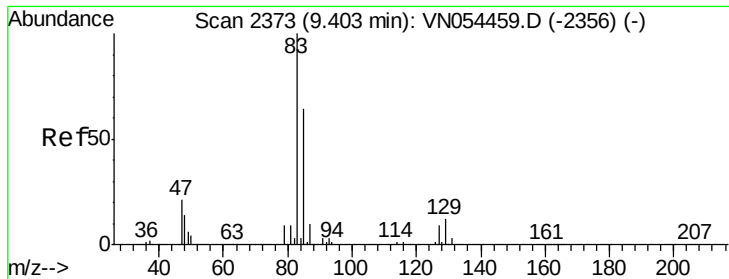
MMDadoda
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#46
 Dibromomethane
 Concen: 49.816 ug/l
 RT: 9.21 min Scan# 2312
 Delta R.T. 0.00 min
 Lab File: VN054464.D
 Acq: 20 Mar 2019 14:55

Tgt Ion	Ratio	Lower	Upper
93	100		
95	82.9	66.7	100.1
174	107.1	98.5	147.7





#47

Bromodichloromethane

Concen: 50.980 ug/l

RT: 9.40 min Scan# 2373

Delta R.T. 0.00 min

Lab File: VN054464.D

Acq: 20 Mar 2019 14:55

Instrument :

MSVOA_N

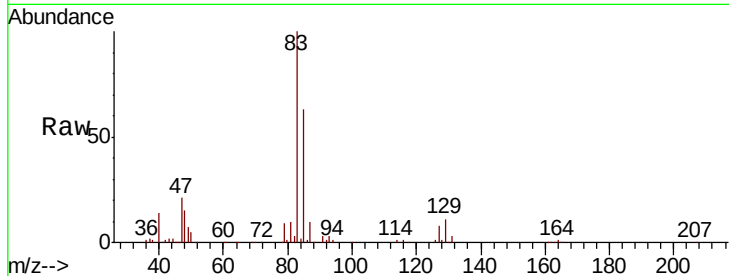
ClientSampleId :

ICVVN032019

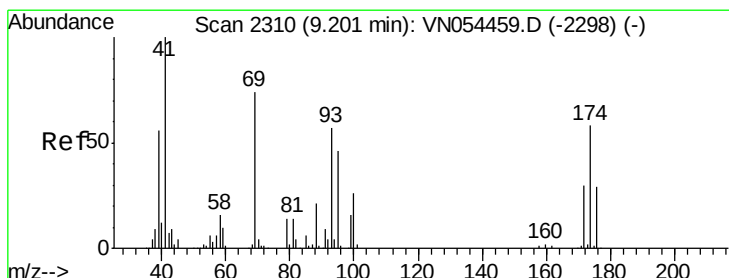
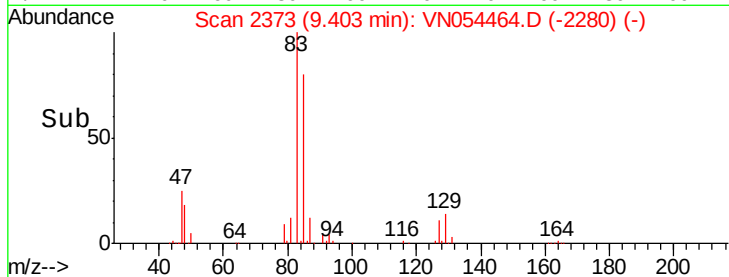
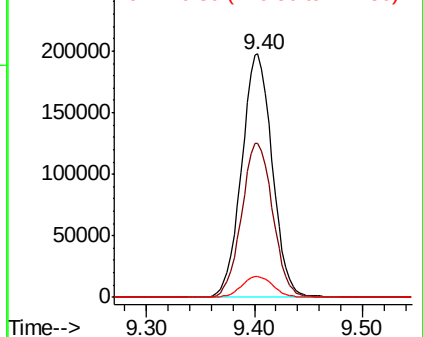
Tot Ion:	83	Resp:	389787
Ion Ratio	Lower	Upper	
83	100		
85	63.2	52.8	79.2
127	8.5	7.4	11.2

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Abundance Ion 82.90 (82.60 to 83.60): VN0
Ion 84.90 (84.60 to 85.60): VN0
Ion 126.80 (126.50 to 127.50): VN0



#48

Methyl methacrylate

Concen: 47.537 ug/l

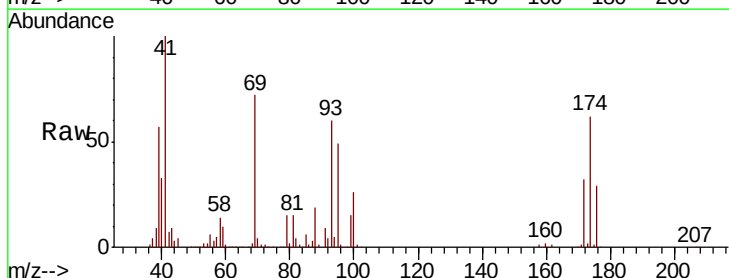
RT: 9.20 min Scan# 2310

Delta R.T. 0.00 min

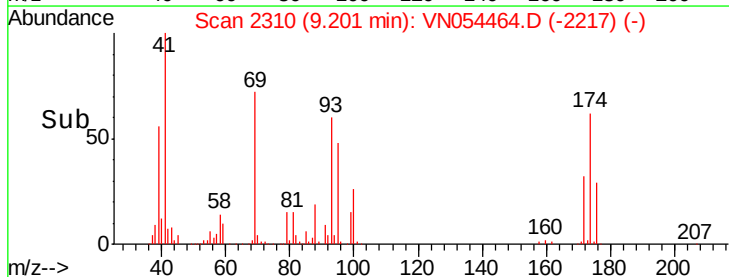
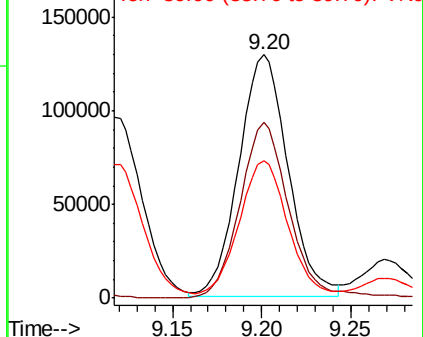
Lab File: VN054464.D

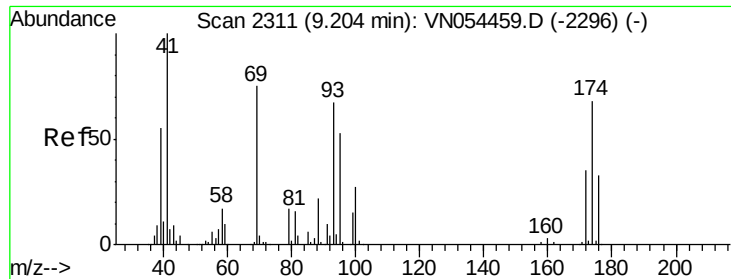
Acq: 20 Mar 2019 14:55

Tgt Ion:	41	Resp:	249254
Ion Ratio	Lower	Upper	
41	100		
69	72.3	72.6	108.8#
39	56.6	47.5	71.3



Abundance Ion 41.00 (40.70 to 41.70): VN0
Ion 69.00 (68.70 to 69.70): VN0
Ion 39.00 (38.70 to 39.70): VN0





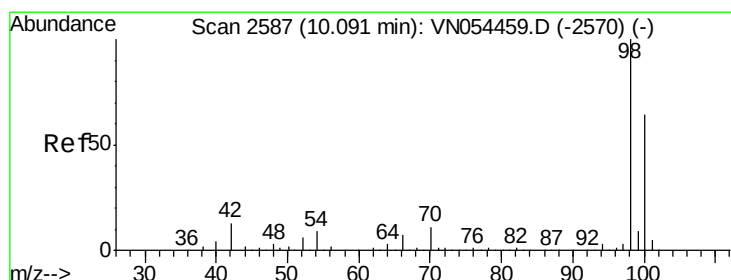
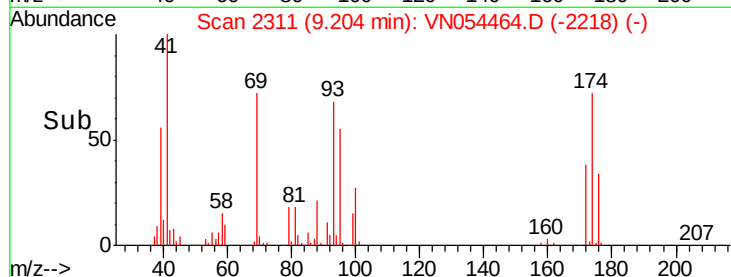
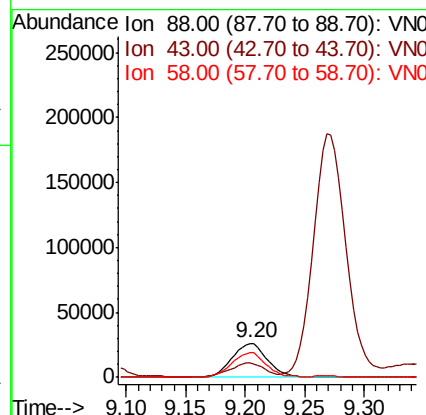
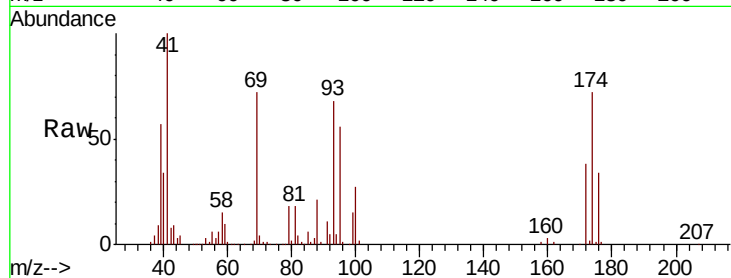
#49
1,4-Dioxane
Concen: 923.186 ug/l
RT: 9.20 min Scan# 2311
Delta R.T. 0.00 min
Lab File: VN054464.D
Acq: 20 Mar 2019 14:55

Instrument :
MSVOA_N
ClientSampleId :
ICVVN032019

Tot Ion	88	Resp	54115
Ion	Ratio	Lower	Upper
88	100		
43	37.8	24.1	36.1#
58	71.3	50.8	76.2

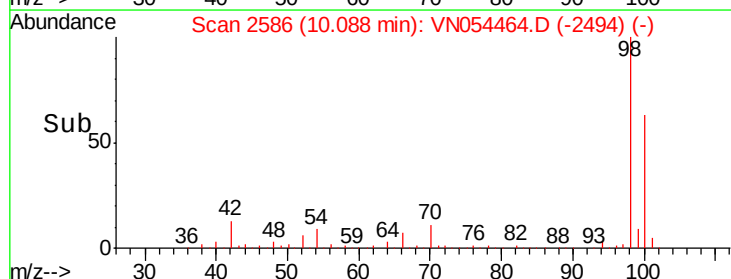
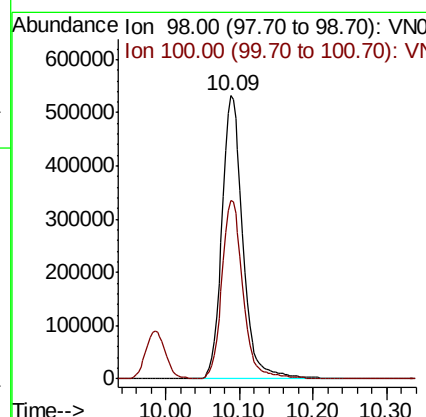
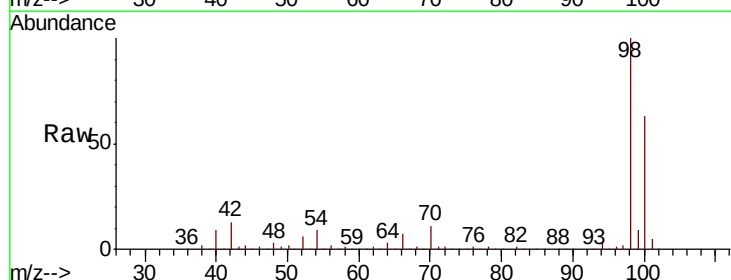
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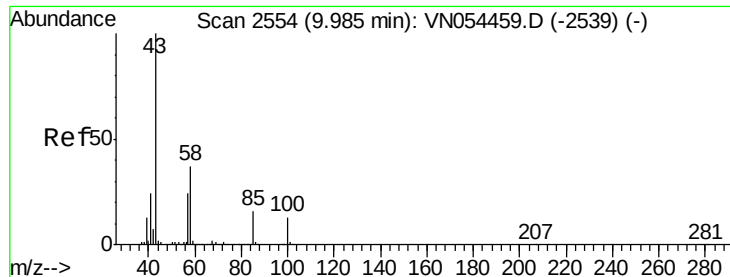
MMDadoda
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#50
Toluene-d8
Concen: 50.294 ug/l
RT: 10.09 min Scan# 2586
Delta R.T. -0.00 min
Lab File: VN054464.D
Acq: 20 Mar 2019 14:55

Tgt Ion	98	Resp	1047763
Ion	Ratio	Lower	Upper
98	100		
100	63.7	51.2	76.8





#51

4-Methyl-2-Pentanone

Concen: 237.822 ug/l

RT: 9.99 min Scan# 2554

Delta R.T. 0.00 min

Lab File: VN054464.D

Acq: 20 Mar 2019 14:55

Instrument :

MSVOA_N

ClientSampleId :

ICV032019

Tot Ion: 43 Resp: 1273270

Ion Ratio Lower Upper

43 100

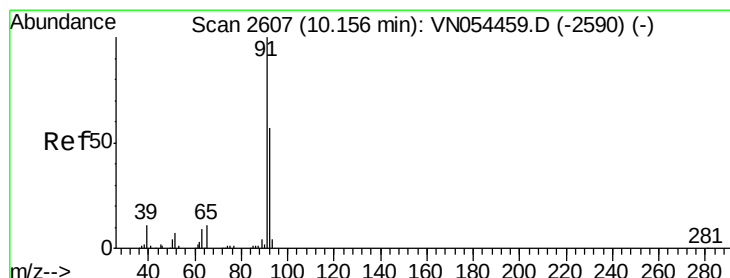
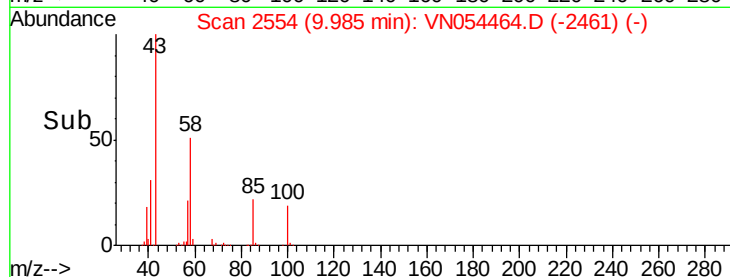
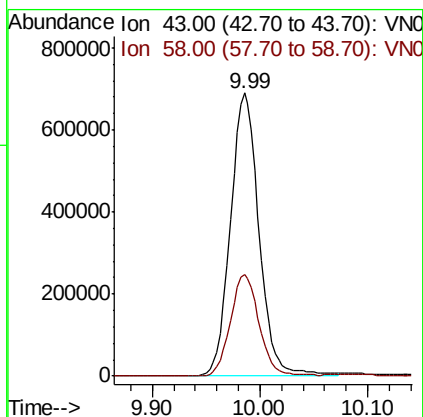
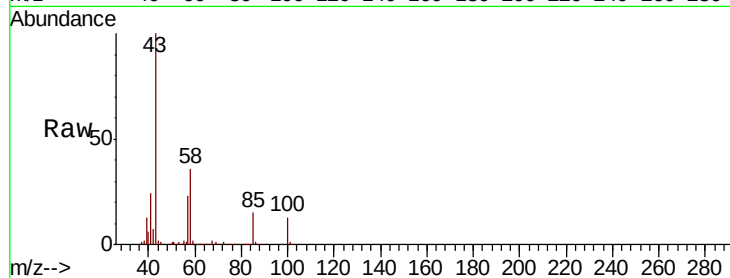
58 36.0 31.8 47.6

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#52

Toluene

Concen: 50.146 ug/l

RT: 10.16 min Scan# 2607

Delta R.T. 0.00 min

Lab File: VN054464.D

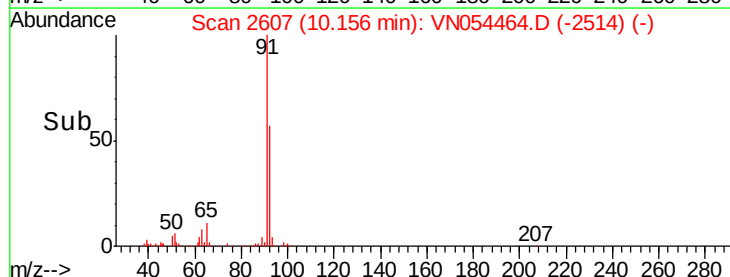
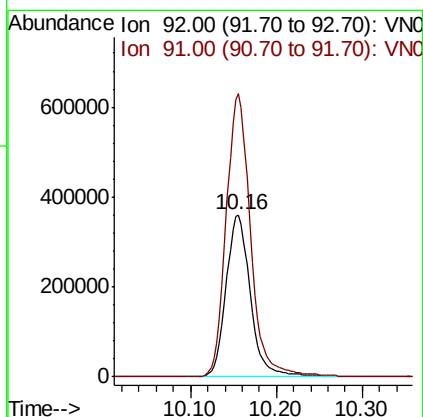
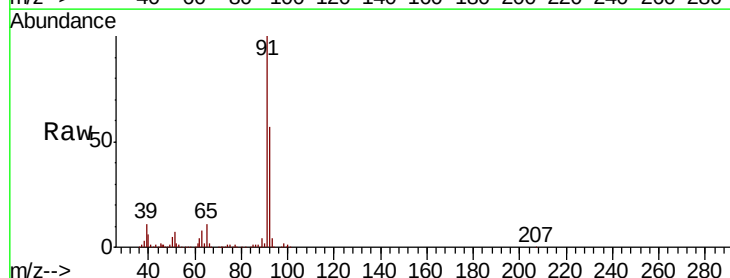
Acq: 20 Mar 2019 14:55

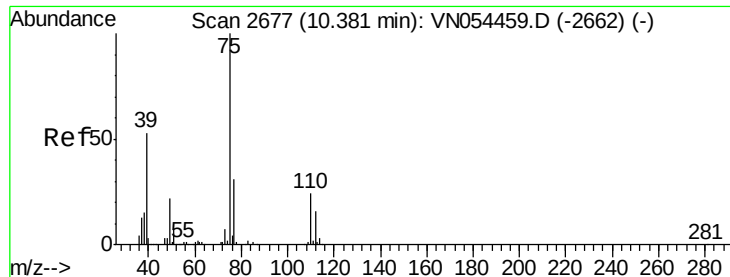
Tgt Ion: 92 Resp: 709315

Ion Ratio Lower Upper

92 100

91 175.7 140.7 211.1





#53

t-1,3-Dichloropropene

Concen: 46.922 ug/l

RT: 10.38 min Scan# 2677

Delta R.T. 0.00 min

Lab File: VN054464.D

Acq: 20 Mar 2019 14:55

Instrument :

MSVOA_N

ClientSampleId :

ICVVN032019

Tot Ion: 75 Resp: 377288

Ion Ratio Lower Upper

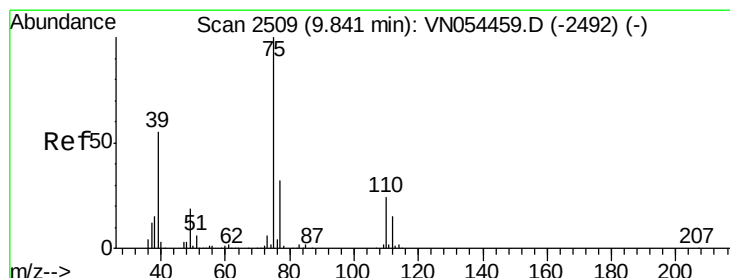
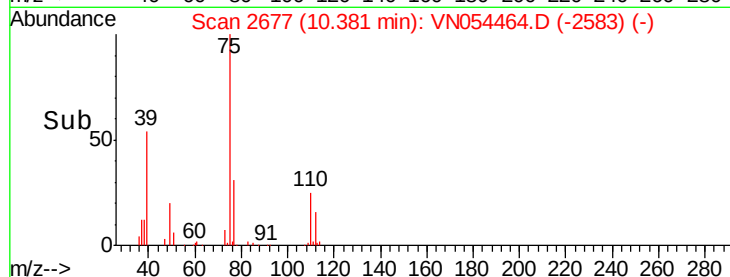
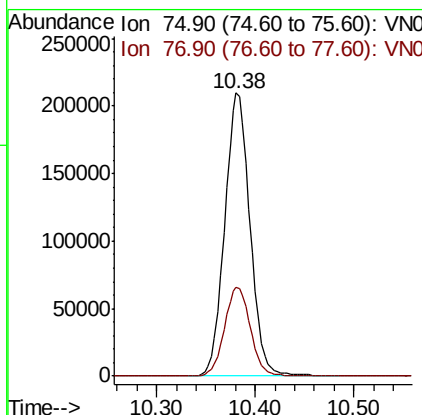
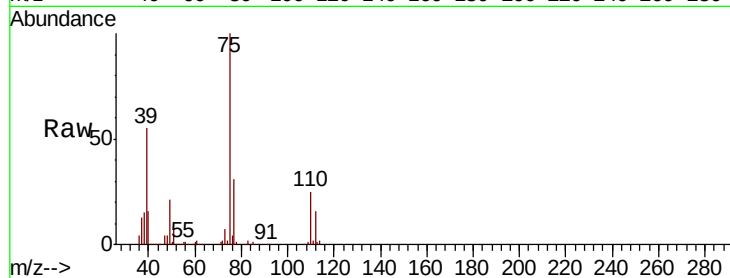
75 100

77 31.3 25.8 38.8

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#54

cis-1,3-Dichloropropene

Concen: 52.521 ug/l

RT: 9.84 min Scan# 2508

Delta R.T. -0.00 min

Lab File: VN054464.D

Acq: 20 Mar 2019 14:55

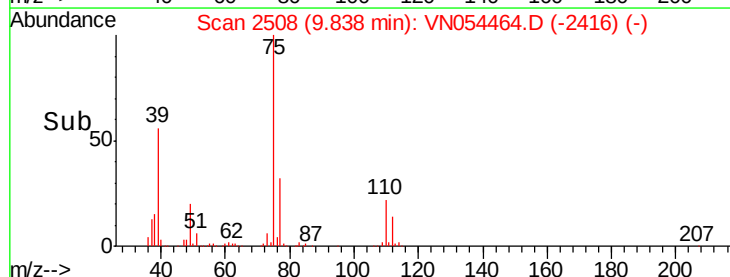
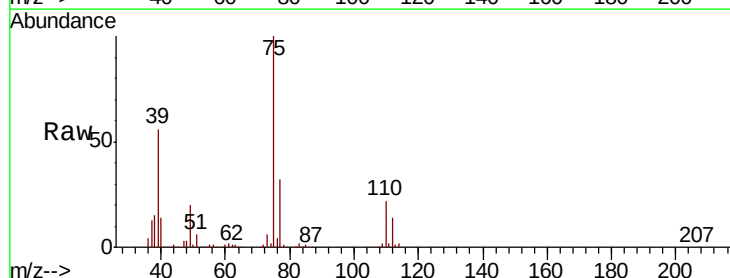
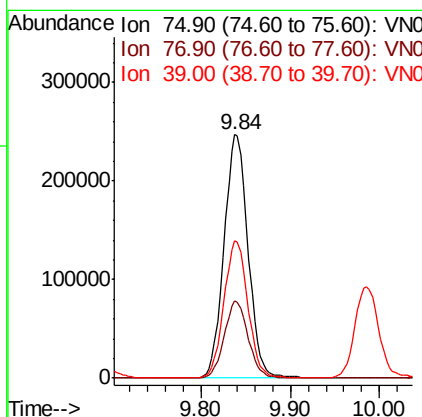
Tgt Ion: 75 Resp: 460439

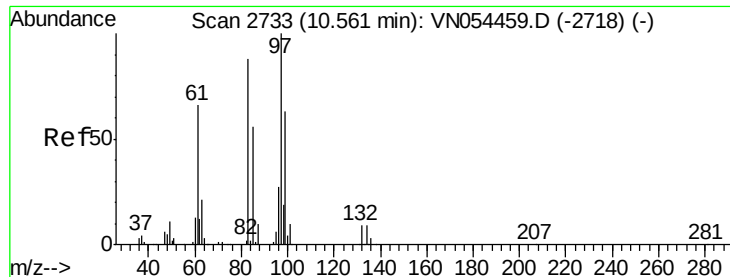
Ion Ratio Lower Upper

75 100

77 31.7 25.4 38.0

39 56.3 37.2 55.8#





#55

1,1,2-Trichloroethane

Concen: 48.977 ug/l

RT: 10.56 min Scan# 2733

Delta R.T. 0.00 min

Lab File: VN054464.D

Acq: 20 Mar 2019 14:55

Instrument :

MSVOA_N

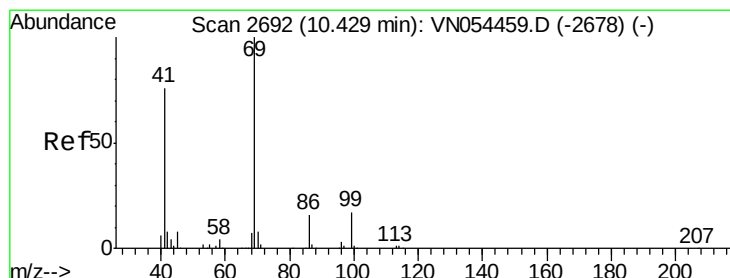
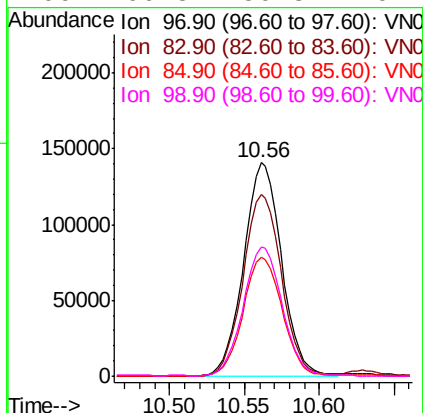
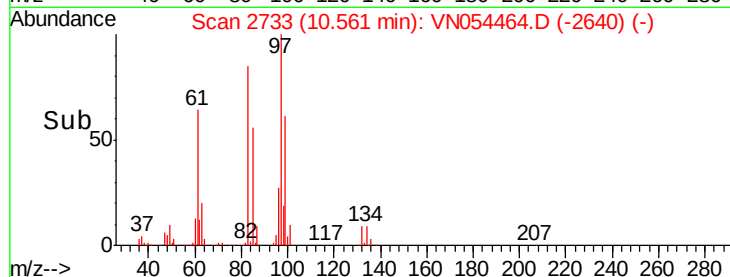
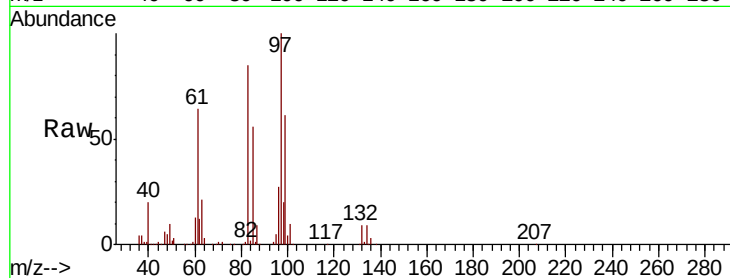
ClientSampleId :

ICVVN032019

Tot Ion:	97	Resp:	249025
Ion	Ratio	Lower	Upper
97	100		
83	85.2	66.6	100.0
85	55.5	44.4	66.6
99	60.3	50.8	76.2

Manual Integrations
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#56

Ethyl methacrylate

Concen: 49.007 ug/l

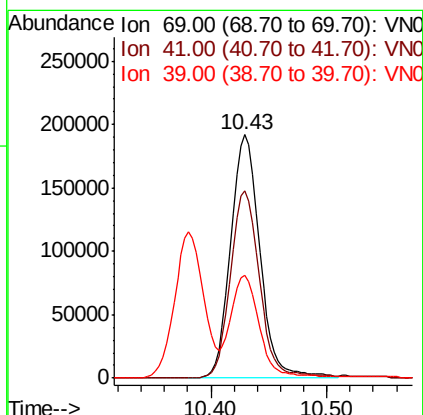
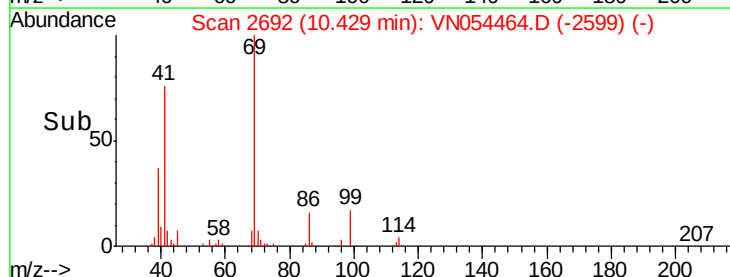
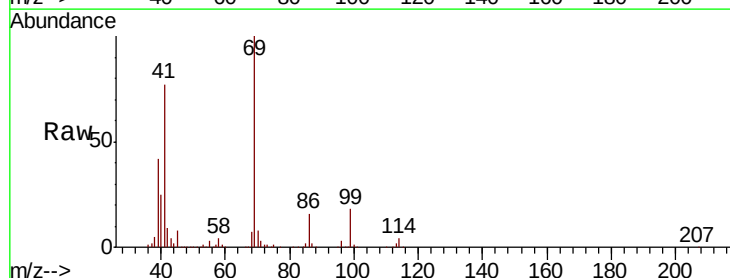
RT: 10.43 min Scan# 2692

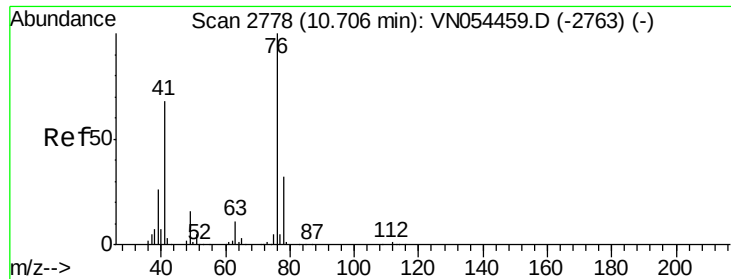
Delta R.T. 0.00 min

Lab File: VN054464.D

Acq: 20 Mar 2019 14:55

Tgt Ion:	69	Resp:	334449
Ion	Ratio	Lower	Upper
69	100		
41	76.0	49.4	74.2#
39	40.4	28.3	42.5





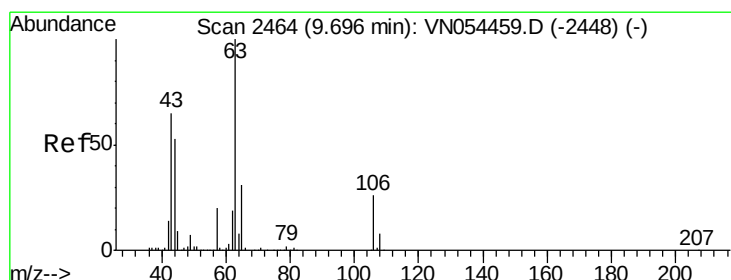
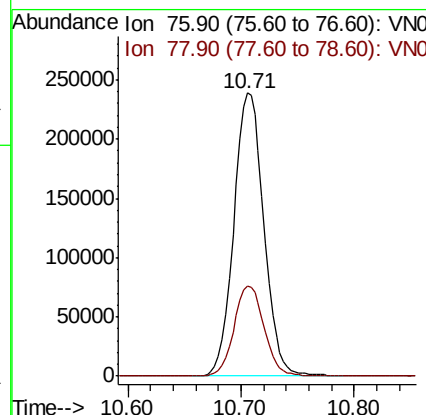
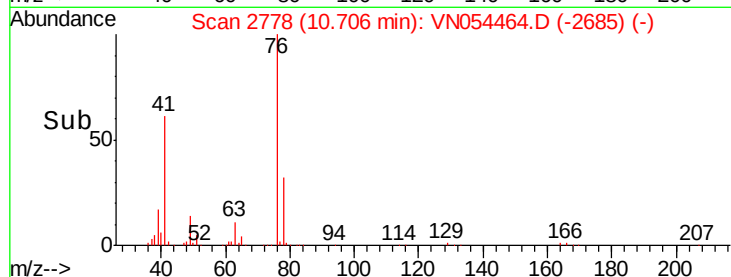
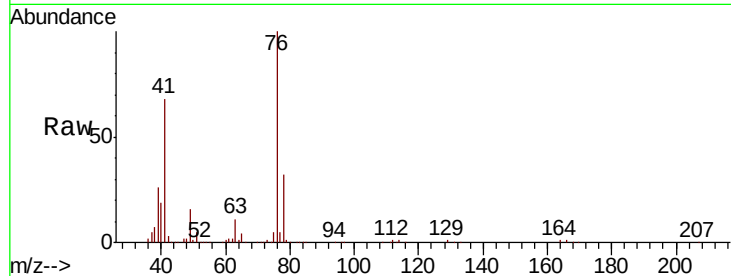
#57
 1,3-Dichloropropane
 Concen: 49.769 ug/l
 RT: 10.71 min Scan# 2778
 Delta R.T. 0.00 min
 Lab File: VN054464.D
 Acq: 20 Mar 2019 14:55

Instrument :
 MSVOA_N
 ClientSampled :
 ICVVN032019

Tot Ion: 76 Resp: 439883
 Ion Ratio Lower Upper
 76 100
 78 32.2 25.7 38.5

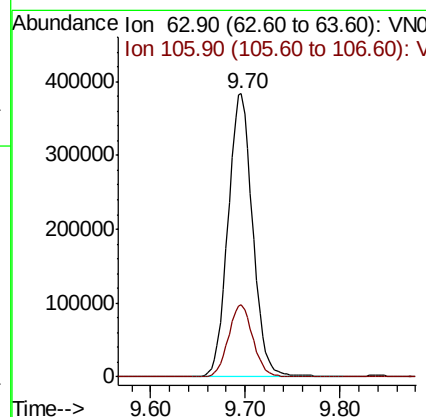
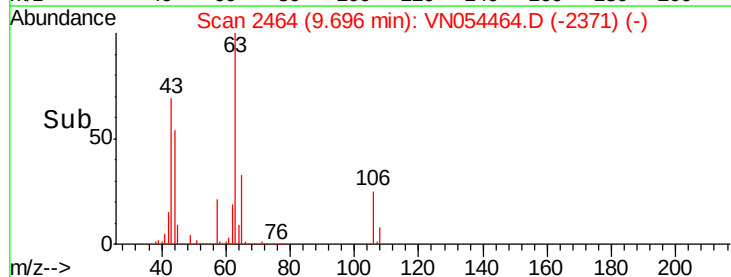
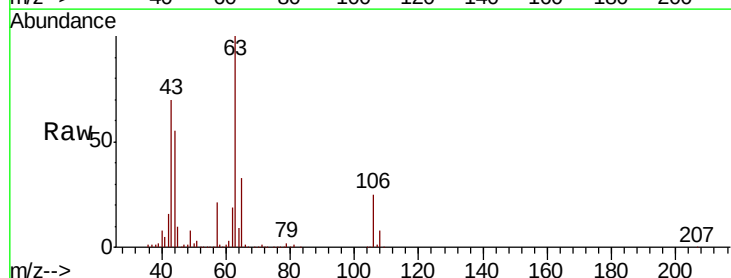
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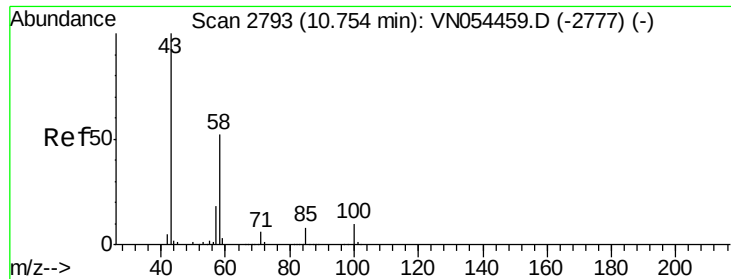
MMDadoda
 3/22/2019 3:17:30 PM



#58
 2-Chloroethyl Vinyl ether
 Concen: 247.070 ug/l
 RT: 9.70 min Scan# 2464
 Delta R.T. 0.00 min
 Lab File: VN054464.D
 Acq: 20 Mar 2019 14:55

Tgt Ion: 63 Resp: 694312
 Ion Ratio Lower Upper
 63 100
 106 25.4 24.4 36.6





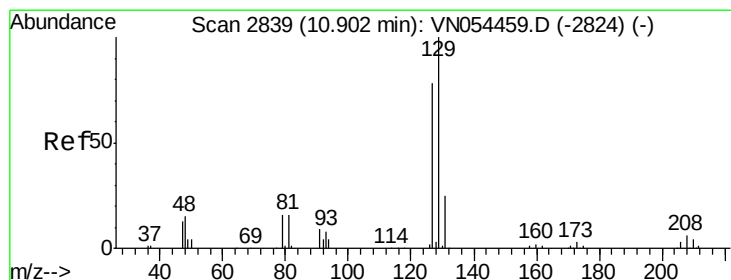
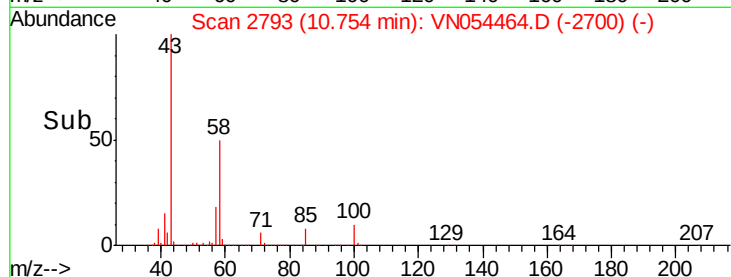
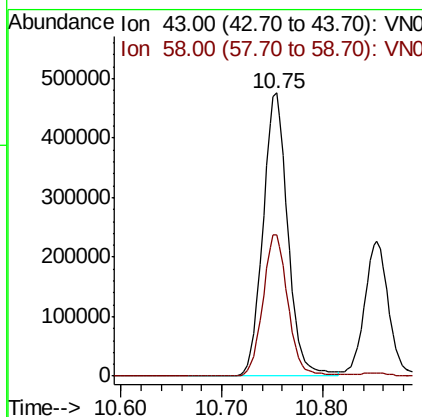
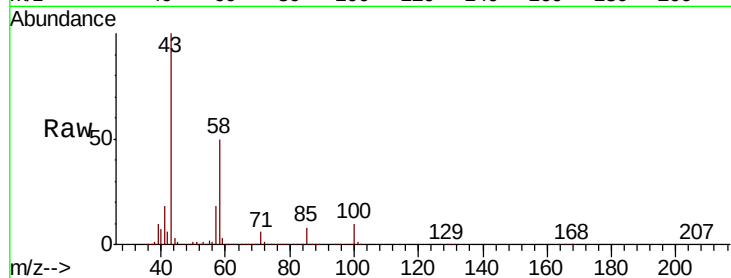
#59
2-Hexanone
Concen: 232.162 ug/l
RT: 10.75 min Scan# 2793
Delta R.T. 0.00 min
Lab File: VN054464.D
Acq: 20 Mar 2019 14:55

Instrument :
MSVOA_N
ClientSampled :
ICVFN032019

Tot Ion: 43 Resp: 811893
Ion Ratio Lower Upper
43 100
58 50.3 28.0 83.9

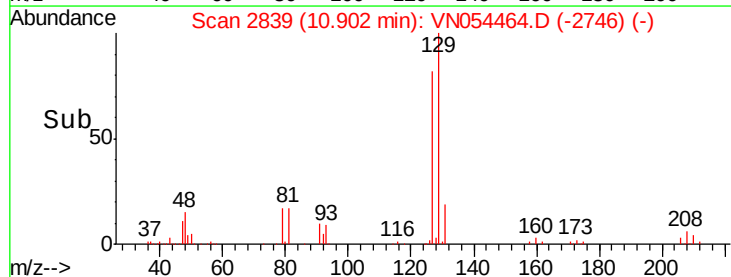
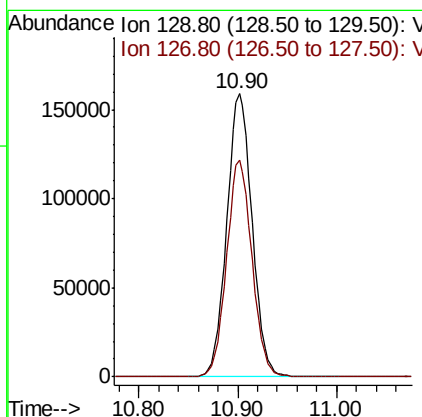
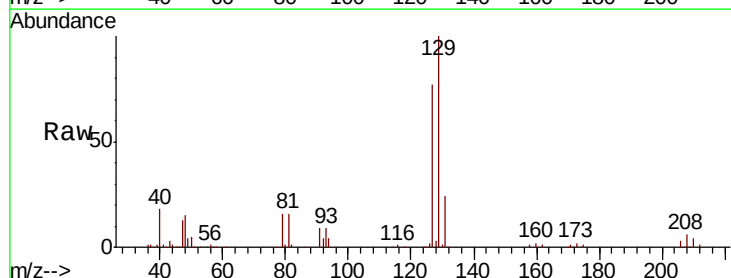
Manual Integrations
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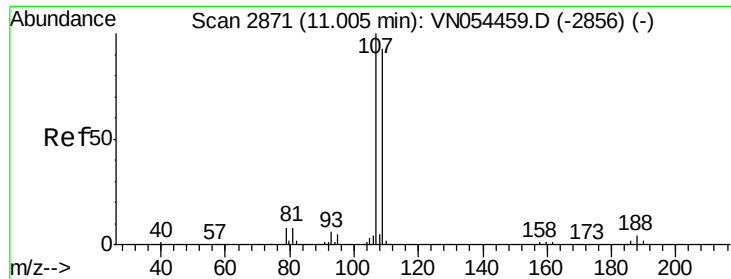
MMDadoda
3/22/2019 3:17:30 PM



#60
Dibromochloromethane
Concen: 52.897 ug/l
RT: 10.90 min Scan# 2839
Delta R.T. 0.00 min
Lab File: VN054464.D
Acq: 20 Mar 2019 14:55

Tgt Ion: 129 Resp: 286199
Ion Ratio Lower Upper
129 100
127 76.7 38.6 115.8





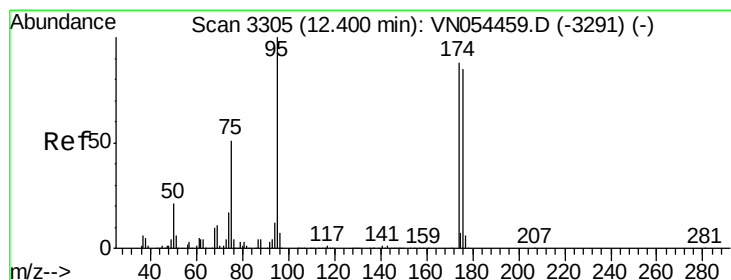
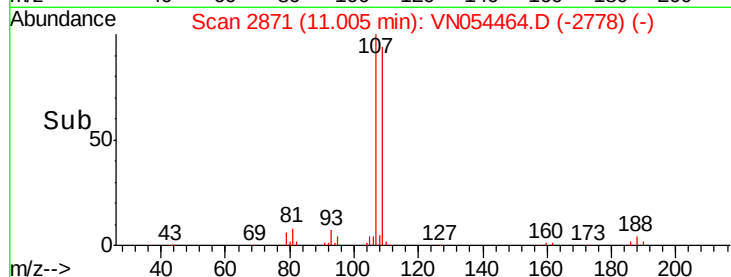
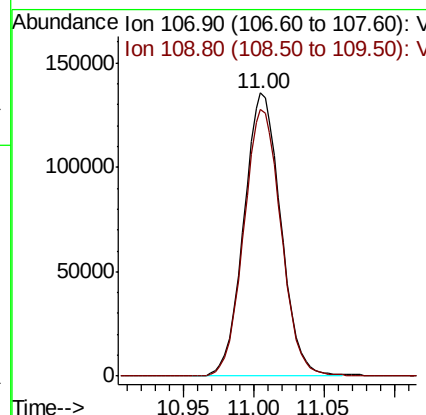
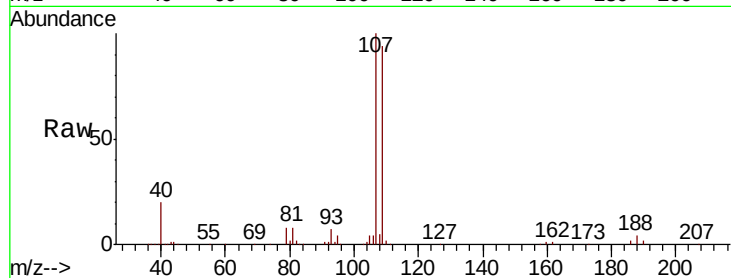
#61
 1,2-Dibromoethane
 Concen: 49.439 ug/l
 RT: 11.00 min Scan# 2871
 Delta R.T. 0.00 min
 Lab File: VN054464.D
 Acq: 20 Mar 2019 14:55

Instrument :
 MSVOA_N
 ClientSampleId :
 ICVVN032019

Tot Ion	Ratio	Lower	Upper
107	100		
109	95.5	75.9	113.9

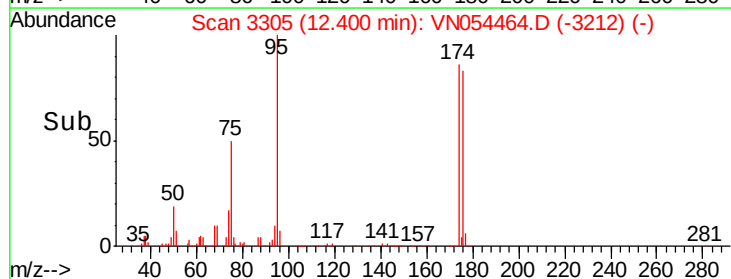
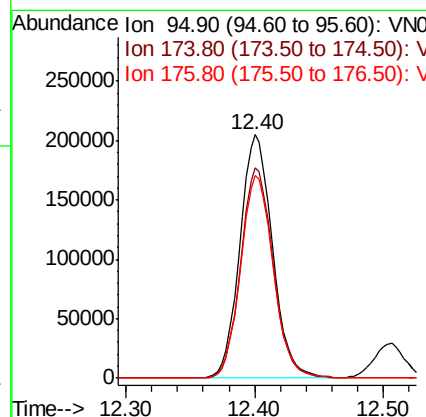
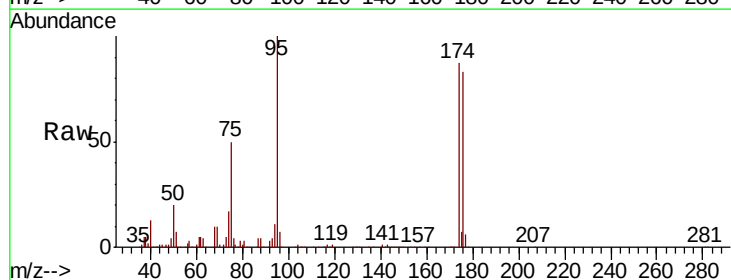
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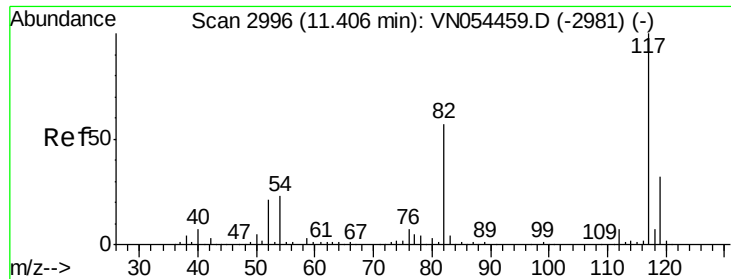
MMDadoda
 3/22/2019 3:17:30 PM



#62
 4-Bromofluorobenzene
 Concen: 50.759 ug/l
 RT: 12.40 min Scan# 3305
 Delta R.T. 0.00 min
 Lab File: VN054464.D
 Acq: 20 Mar 2019 14:55

Tgt Ion	Ratio	Lower	Upper
95	100		
174	86.1	0.0	191.0
176	83.7	0.0	187.4





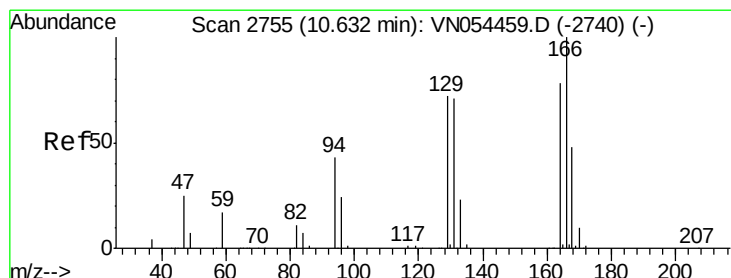
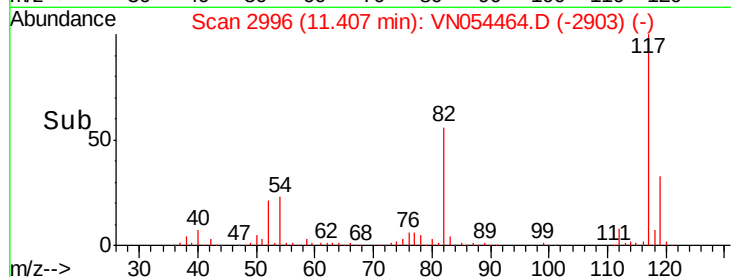
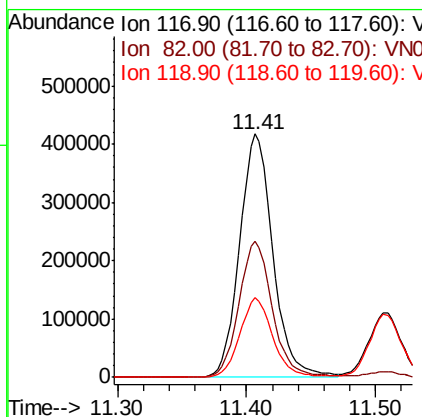
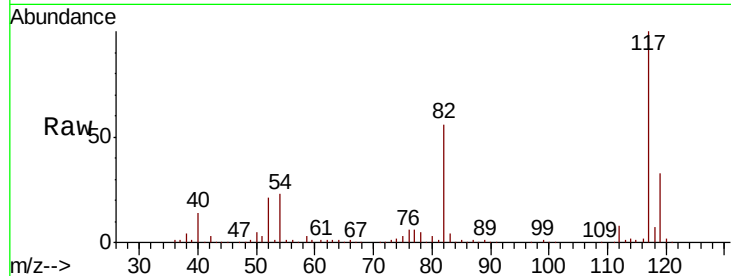
#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.41 min Scan# 2996
Delta R.T. 0.00 min
Lab File: VN054464.D
Acq: 20 Mar 2019 14:55

Instrument :
MSVOA_N
ClientSampled :
ICVVN032019

Tot Ion	Ratio	Lower	Upper
117	100		
82	56.0	40.0	60.0
119	32.6	25.8	38.6

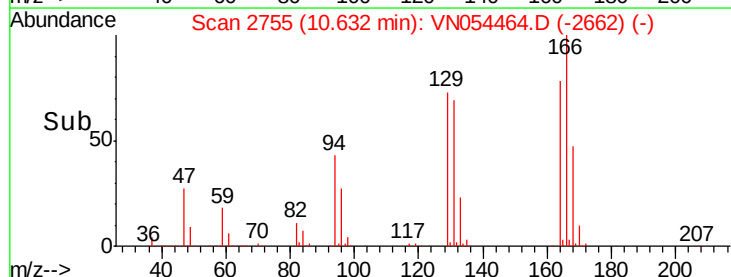
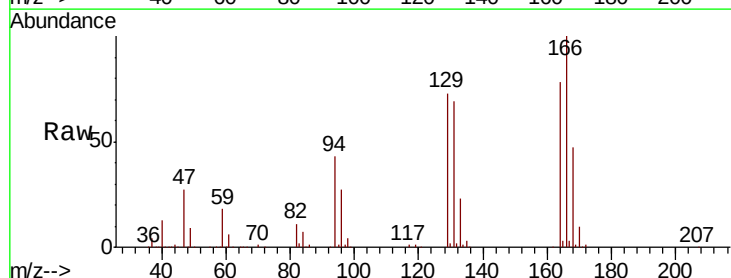
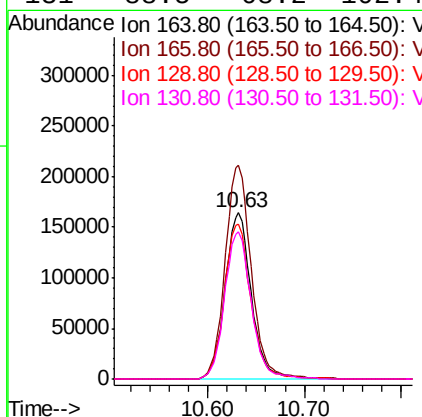
Manual Integrations
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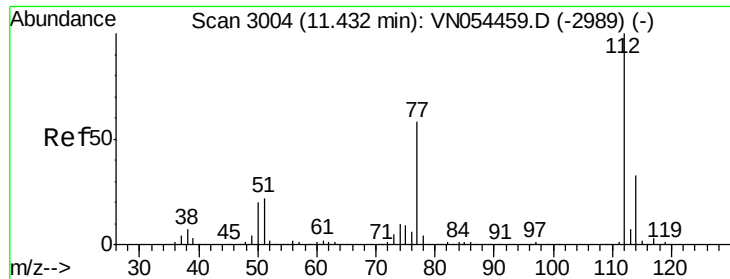
MMDadoda
3/22/2019 3:17:30 PM



#64
Tetrachloroethene
Concen: 49.697 ug/l
RT: 10.63 min Scan# 2755
Delta R.T. 0.00 min
Lab File: VN054464.D
Acq: 20 Mar 2019 14:55

Tgt Ion	Ratio	Lower	Upper
164	100		
166	128.8	103.9	155.9
129	93.4	71.1	106.7
131	88.5	68.2	102.4





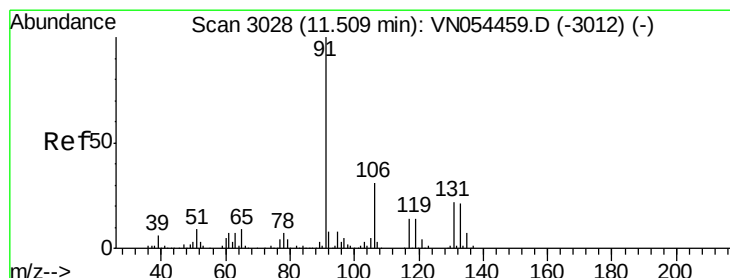
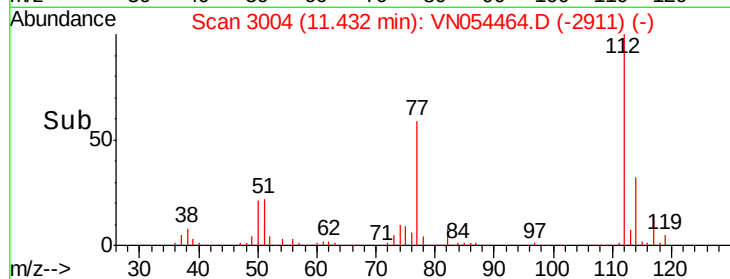
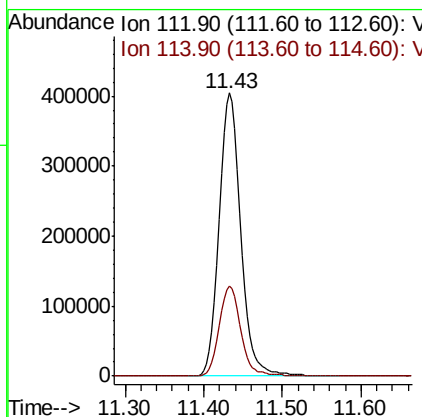
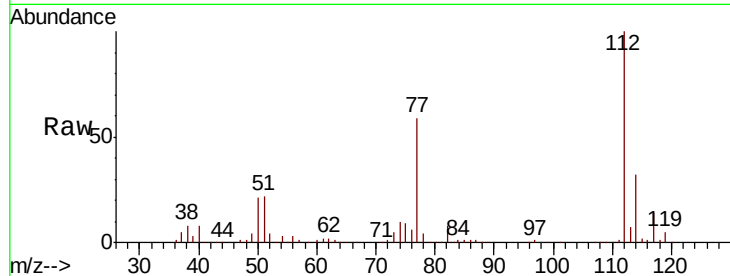
#65
Chlorobenzene
Concen: 50.020 ug/l
RT: 11.43 min Scan# 3004
Delta R.T. 0.00 min
Lab File: VN054464.D
Acq: 20 Mar 2019 14:55

Instrument :
MSVOA_N
ClientSampleId :
ICVVN032019

Tot Ion:112 Resp: 763947
Ion Ratio Lower Upper
112 100
114 31.9 25.9 38.9

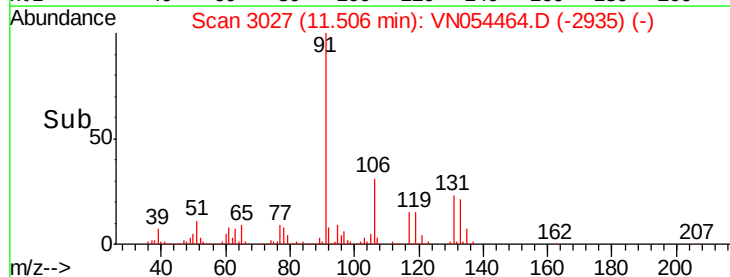
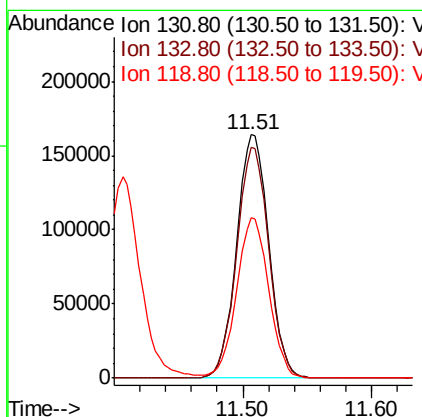
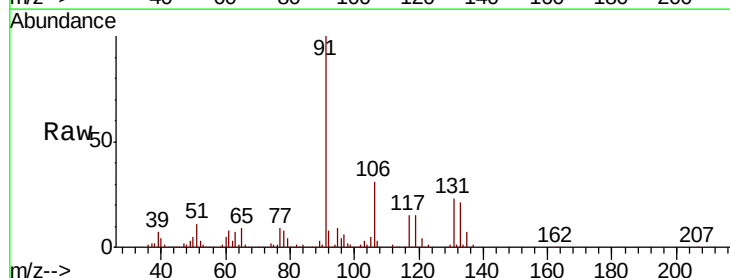
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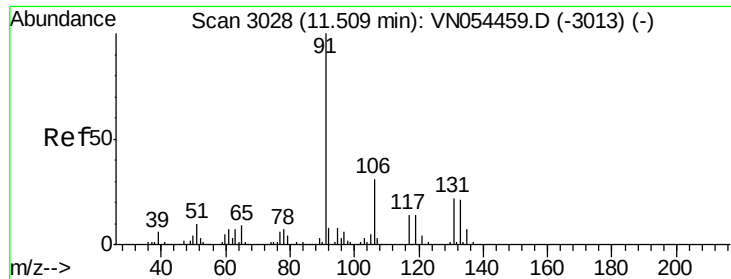
MMDadoda
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#66
1,1,1,2-Tetrachloroethane
Concen: 51.846 ug/l
RT: 11.51 min Scan# 3027
Delta R.T. -0.00 min
Lab File: VN054464.D
Acq: 20 Mar 2019 14:55

Tgt Ion:131 Resp: 284213
Ion Ratio Lower Upper
131 100
133 94.7 47.6 142.9
119 66.0 32.4 97.0





#67

Ethyl Benzene

Concen: 50.404 ug/l

RT: 11.51 min Scan# 3028

Delta R.T. 0.00 min

Lab File: VN054464.D

Acq: 20 Mar 2019 14:55

Instrument :

MSVOA_N

ClientSampled :

ICVVN032019

Tot Ion: 91 Resp: 1359799

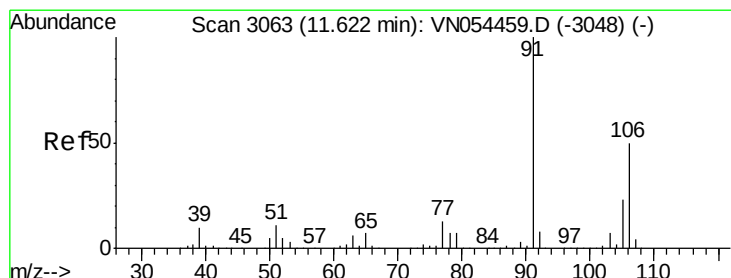
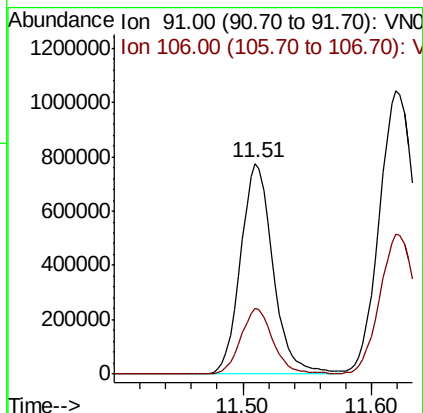
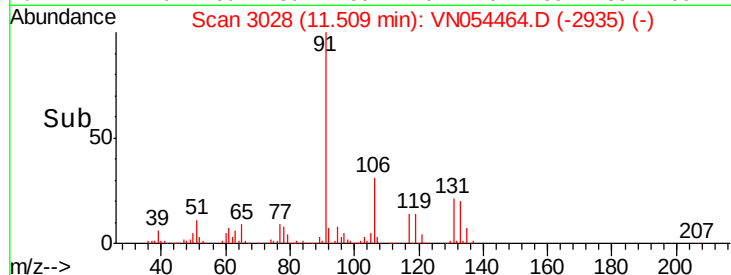
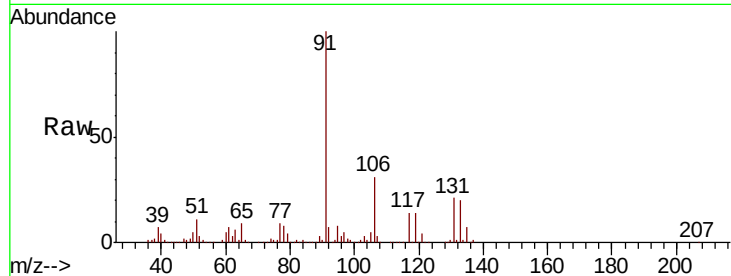
Ion Ratio Lower Upper

91 100

106 30.9 25.5 38.3

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#68

m/p-Xylenes

Concen: 101.720 ug/l

RT: 11.62 min Scan# 3062

Delta R.T. -0.00 min

Lab File: VN054464.D

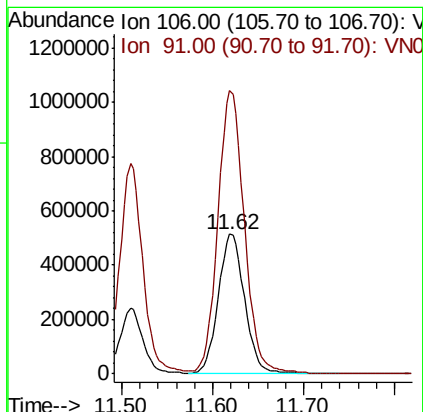
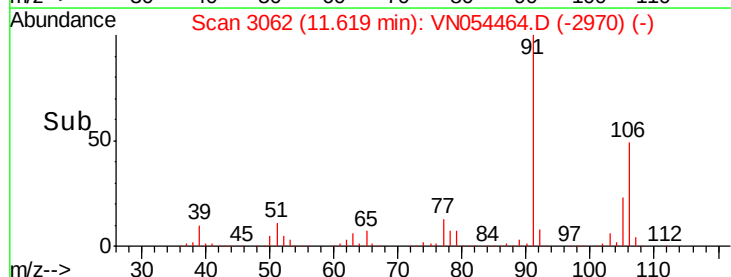
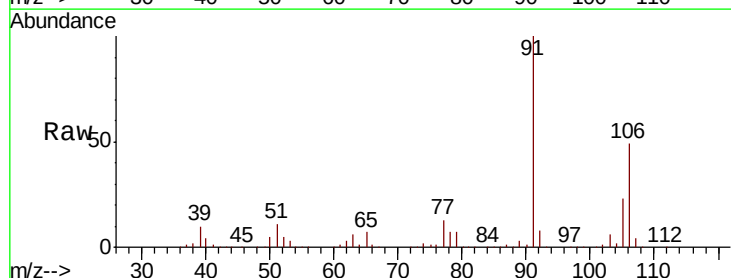
Acq: 20 Mar 2019 14:55

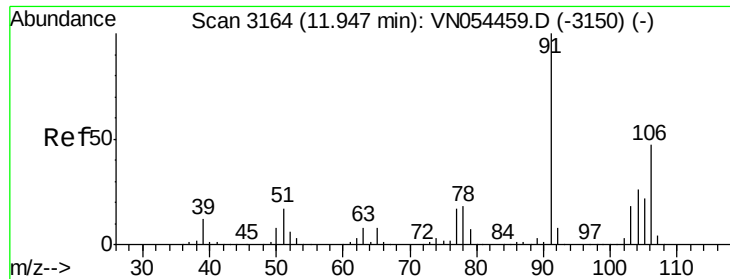
Tgt Ion:106 Resp: 1039439

Ion Ratio Lower Upper

106 100

91 203.0 159.4 239.2





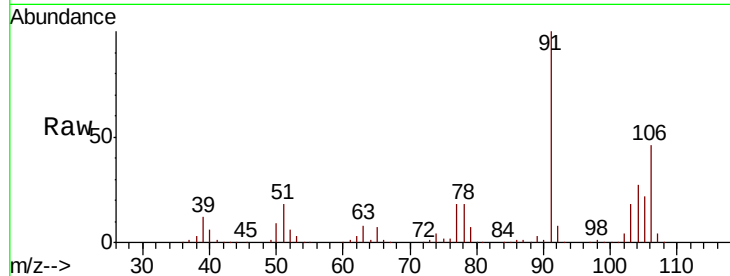
#69
o-Xylene
Concen: 49.738 ug/l
RT: 11.95 min Scan# 3164
Delta R.T. 0.00 min
Lab File: VN054464.D
Acq: 20 Mar 2019 14:55

Instrument :
MSVOA_N
ClientSampleId :
ICVVN032019

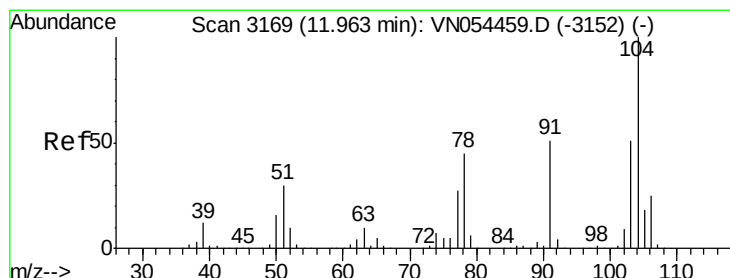
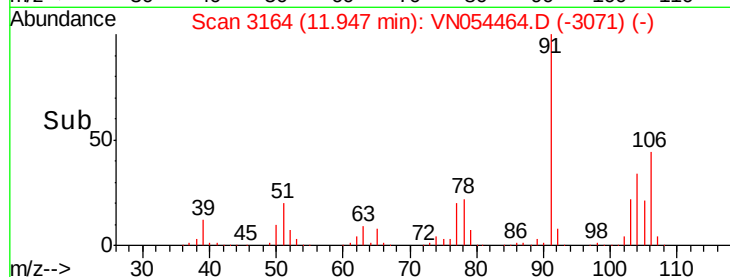
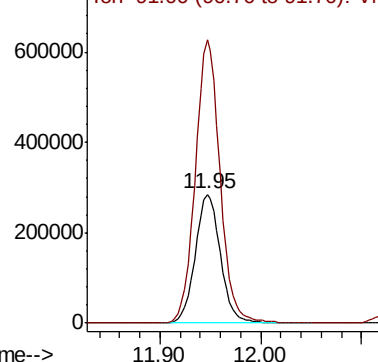
Tot Ion:106 Resp: 496360
Ion Ratio Lower Upper
106 100
91 215.6 105.7 317.1

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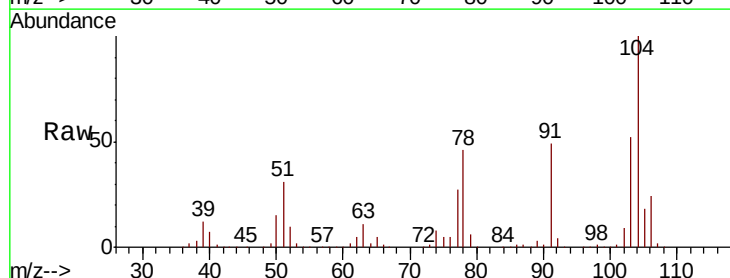


Abundance Ion 106.00 (105.70 to 106.70): V
Ion 91.00 (90.70 to 91.70): V

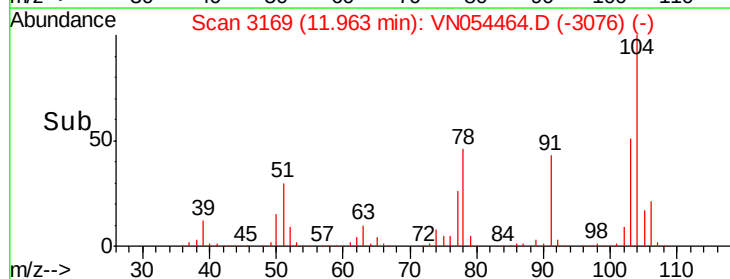
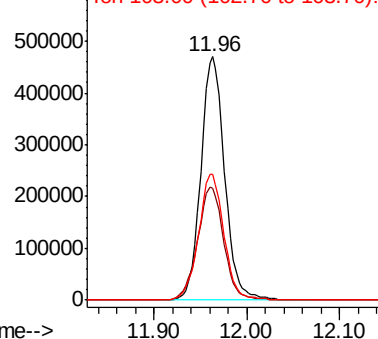


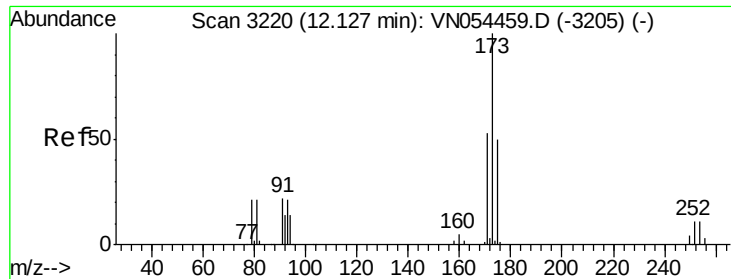
#70
Styrene
Concen: 51.532 ug/l
RT: 11.96 min Scan# 3169
Delta R.T. 0.00 min
Lab File: VN054464.D
Acq: 20 Mar 2019 14:55

Tgt Ion:104 Resp: 835138
Ion Ratio Lower Upper
104 100
78 51.1 38.2 57.2
103 55.3 44.4 66.6



Abundance Ion 104.00 (103.70 to 104.70): V
Ion 78.00 (77.70 to 78.70): V
Ion 103.00 (102.70 to 103.70): V





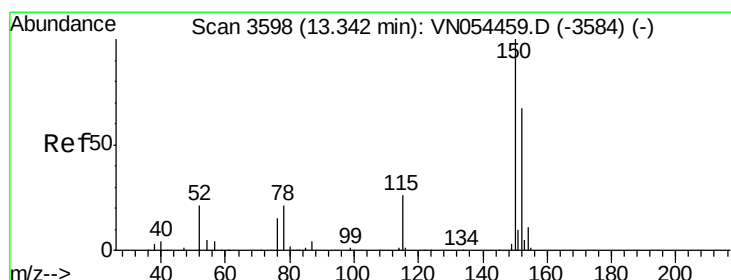
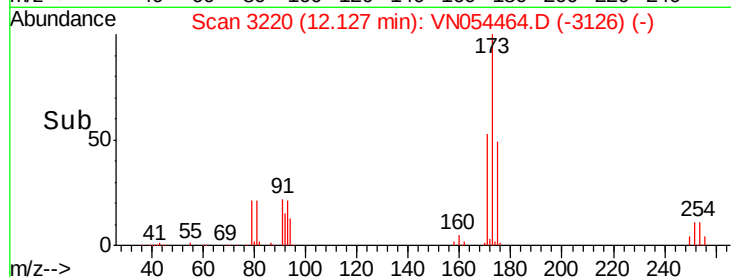
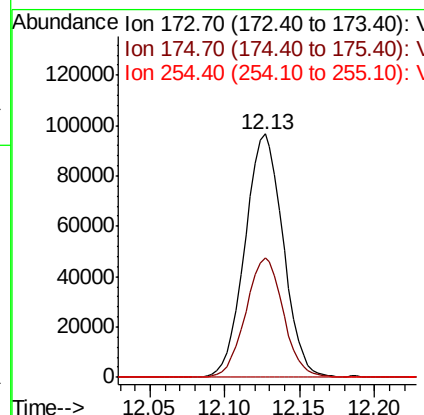
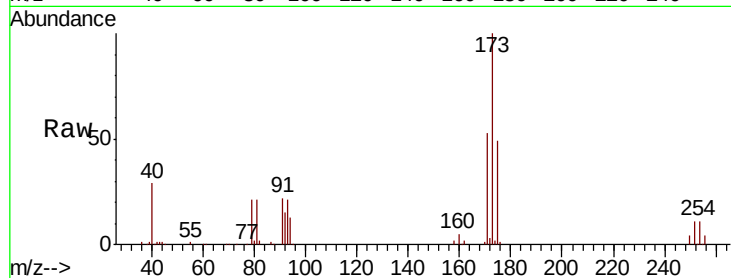
#71
Bromoform
Concen: 45.622 ug/l
RT: 12.13 min Scan# 3220
Delta R.T. 0.00 min
Lab File: VN054464.D
Acq: 20 Mar 2019 14:55

Instrument :
MSVOA_N
ClientSampleId :
ICVVN032019

Tot Ion	Ratio	Lower	Upper
173	100		
175	48.4	24.4	73.2
254	0.1	0.1	0.1#

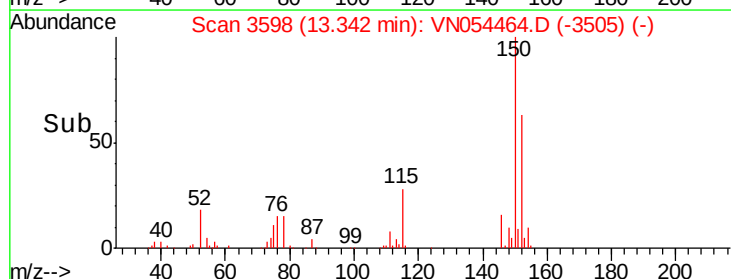
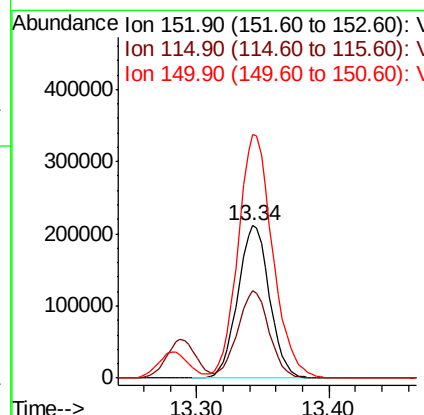
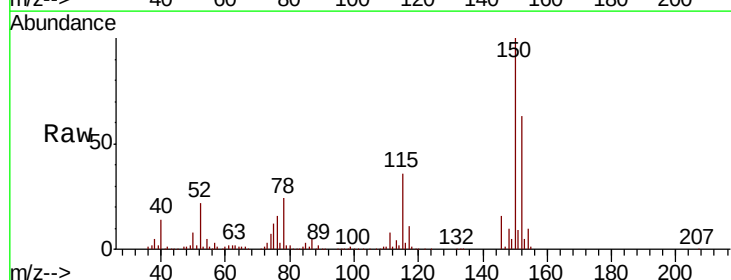
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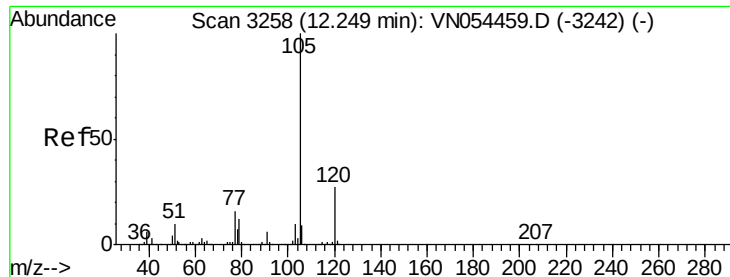
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#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 13.34 min Scan# 3598
Delta R.T. 0.00 min
Lab File: VN054464.D
Acq: 20 Mar 2019 14:55

Tgt Ion	Ratio	Lower	Upper
152	100		
115	57.0	27.2	81.6
150	174.6	0.0	349.2





#73

Isopropylbenzene

Concen: 47.062 ug/l

RT: 12.25 min Scan# 3258

Delta R.T. 0.00 min

Lab File: VN054464.D

Acq: 20 Mar 2019 14:55

Instrument :

MSVOA_N

ClientSampleId :

ICVVN032019

Tot Ion:105 Resp: 1329044

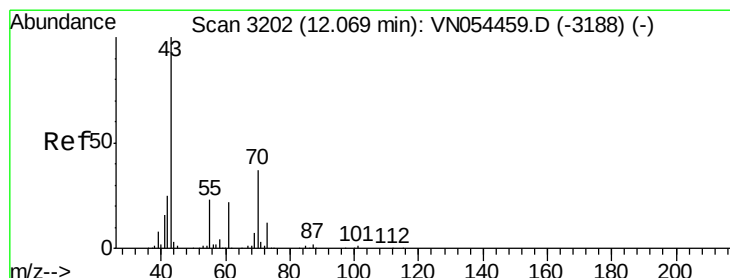
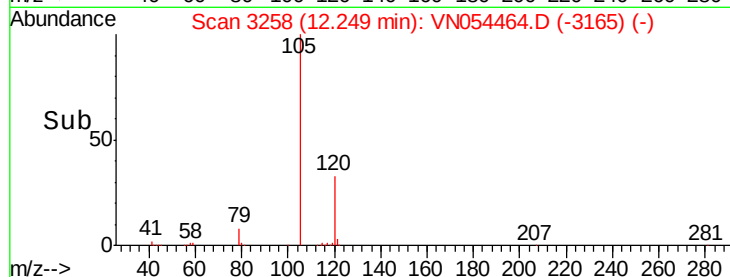
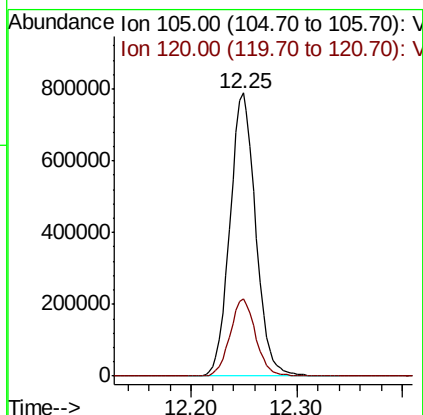
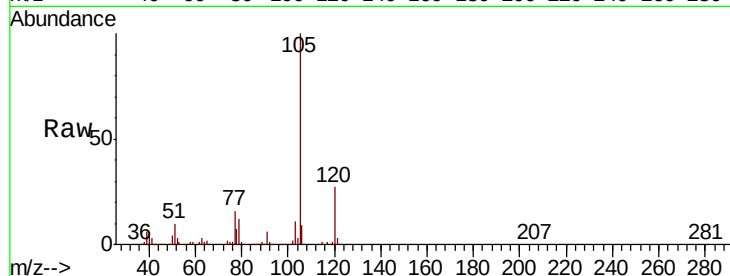
Ion Ratio Lower Upper

105 100

120 27.0 13.8 41.3

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#74

N-ethyl acetate

Concen: 47.655 ug/l

RT: 12.07 min Scan# 3202

Delta R.T. 0.00 min

Lab File: VN054464.D

Acq: 20 Mar 2019 14:55

Tgt Ion: 43 Resp: 386964

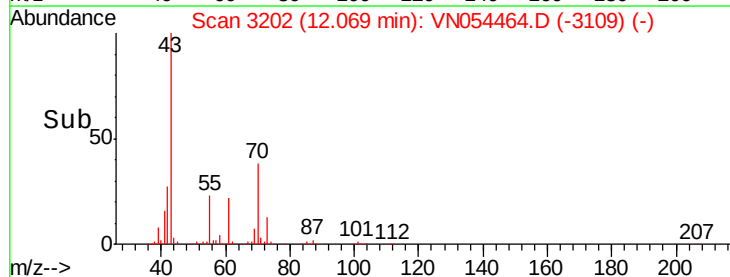
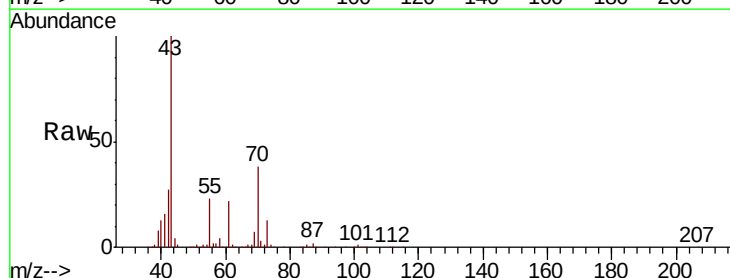
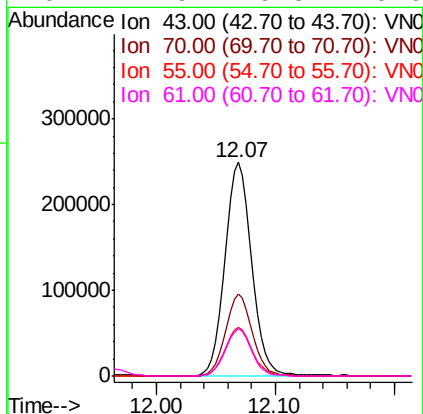
Ion Ratio Lower Upper

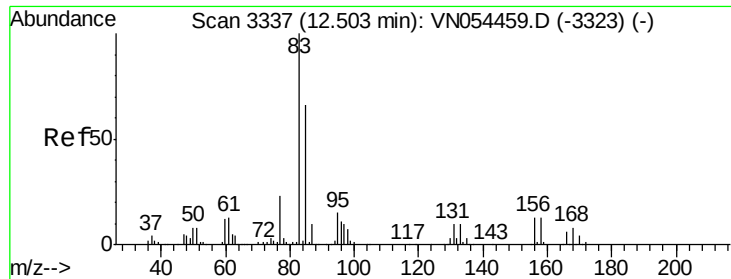
43 100

70 38.3 35.4 53.0

55 23.1 19.8 29.6

61 21.9 19.8 29.6





#75

1,1,2,2-Tetrachloroethane

Concen: 46.235 ug/l

RT: 12.50 min Scan# 3337

Delta R.T. 0.00 min

Lab File: VN054464.D

Acq: 20 Mar 2019 14:55

Instrument :

MSVOA_N

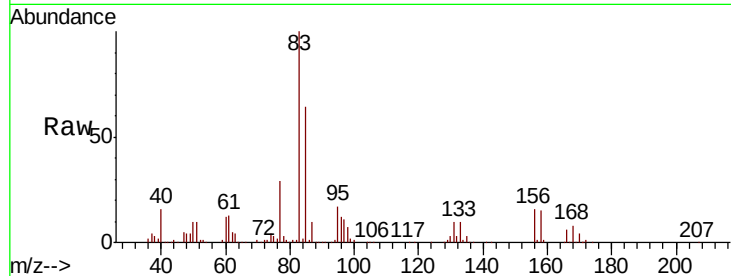
ClientSampled :

ICVVN032019

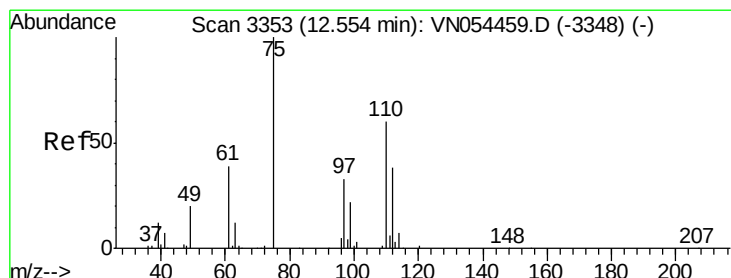
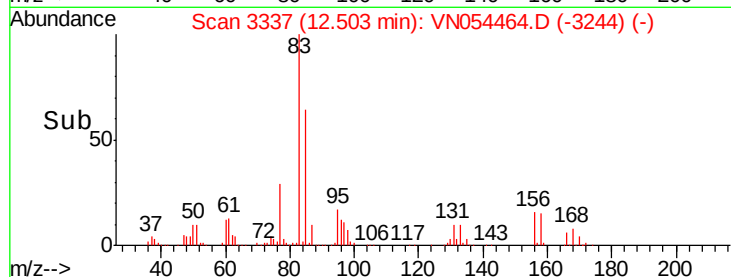
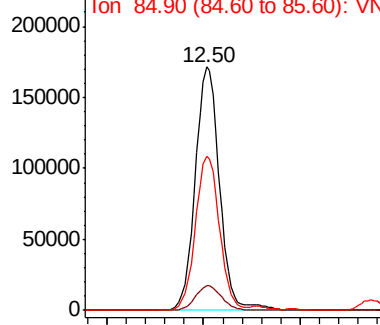
Tot Ion:	83	Resp:	298057
Ion Ratio	Lower	Upper	
83	100		
131	10.8	5.8	17.4
85	62.8	32.2	96.6

Manual Integrations
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Abundance Ion 82.90 (82.60 to 83.60): VN054459.D (-3323) (-)



#76

1,2,3-Trichloropropane

Concen: 48.403 ug/l m

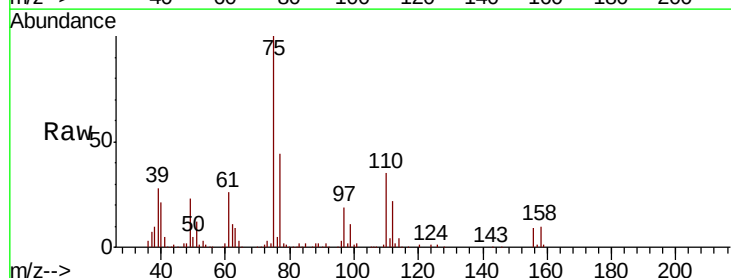
RT: 12.55 min Scan# 3353

Delta R.T. 0.00 min

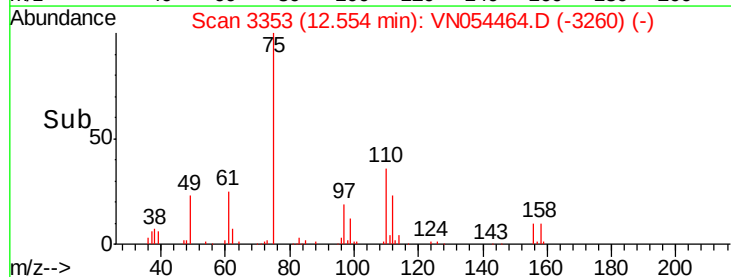
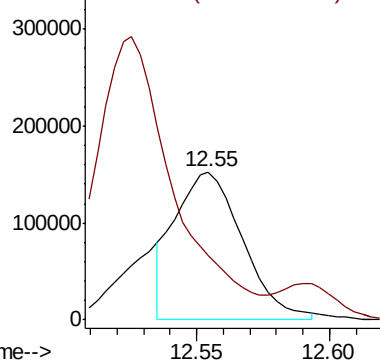
Lab File: VN054464.D

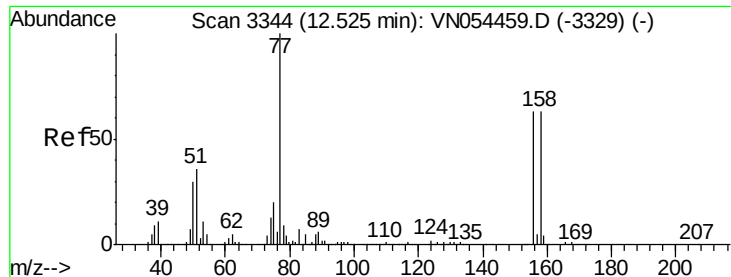
Acq: 20 Mar 2019 14:55

Tgt Ion:	75	Resp:	269177
Ion Ratio	Lower	Upper	
75	100		
77	0.0	0.0	0.0



Abundance Ion 74.90 (74.60 to 75.60): VN054459.D (-3348) (-)





#77

Bromobenzene

Concen: 47.401 ug/l

RT: 12.53 min Scan# 3344

Delta R.T. 0.00 min

Lab File: VN054464.D

Acq: 20 Mar 2019 14:55

Instrument :

MSVOA_N

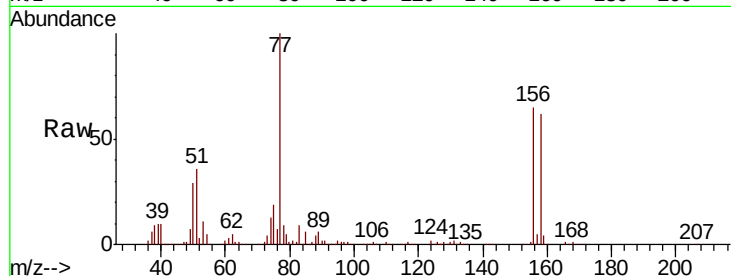
ClientSampled :

ICVVN032019

Tot Ion:	156	Resp:	331996
Ion Ratio	Lower	Upper	
156	100		
77	180.5	81.5	244.4
158	97.3	49.0	147.2

Manual Integrations
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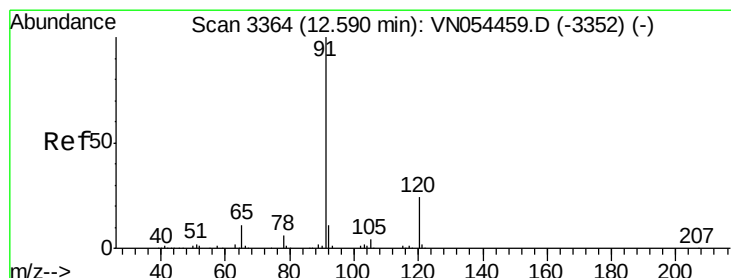
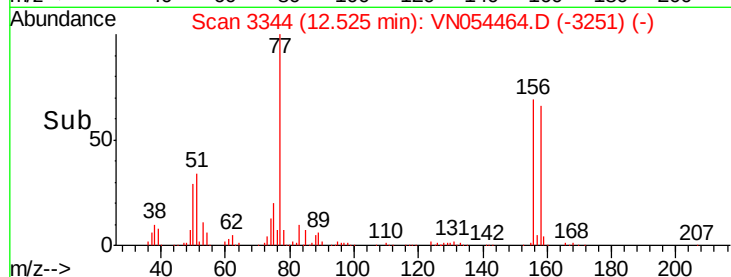
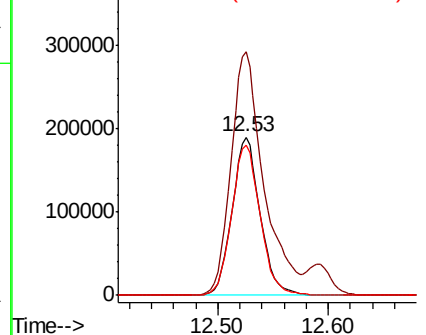
MMDadoda
3/22/2019 3:17:30 PM



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: 48.884 ug/l

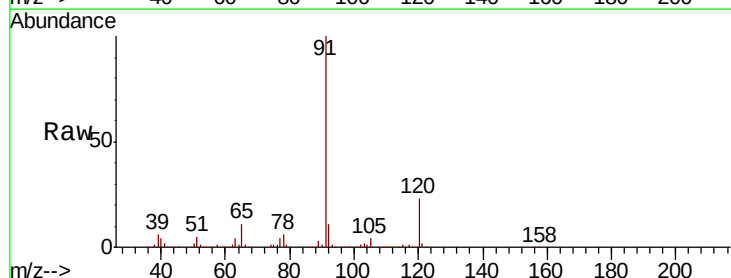
RT: 12.59 min Scan# 3364

Delta R.T. 0.00 min

Lab File: VN054464.D

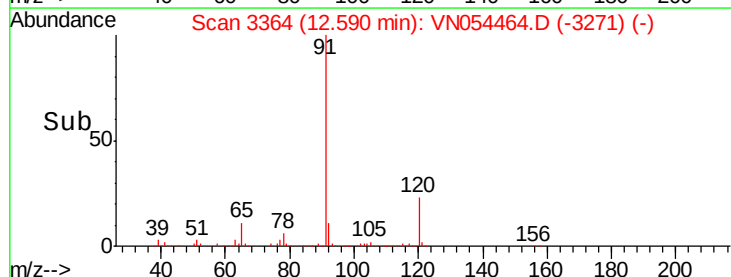
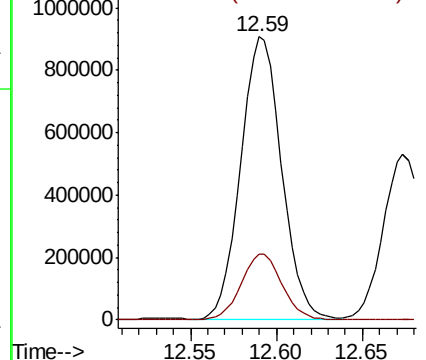
Acq: 20 Mar 2019 14:55

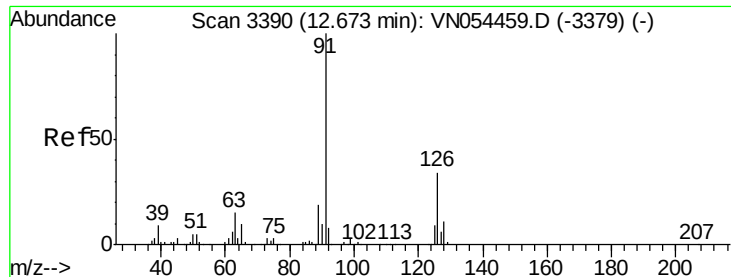
Tgt Ion:	91	Resp:	1496942
Ion Ratio	Lower	Upper	
91	100		
120	23.5	12.3	36.9



Abundance Ion 91.00 (90.70 to 91.70): VN0

Ion 120.00 (119.70 to 120.70): V





#79

2-Chlorotoluene

Concen: 46.449 ug/l

RT: 12.67 min Scan# 3390

Delta R.T. 0.00 min

Lab File: VN054464.D

Acq: 20 Mar 2019 14:55

Instrument :

MSVOA_N

ClientSampleId :

ICVVN032019

Tot Ion: 91 Resp: 886990

Ion Ratio Lower Upper

91 100

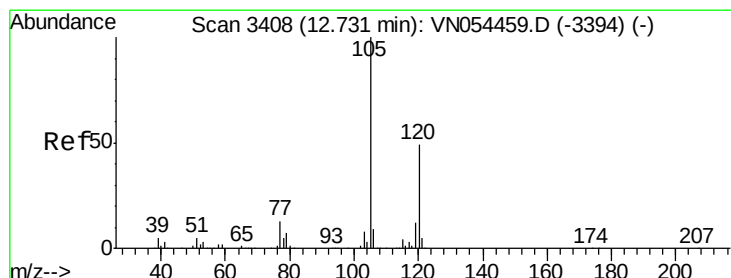
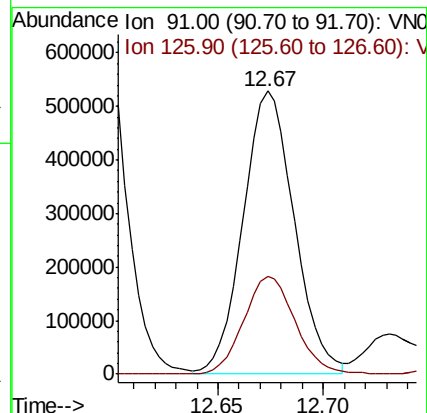
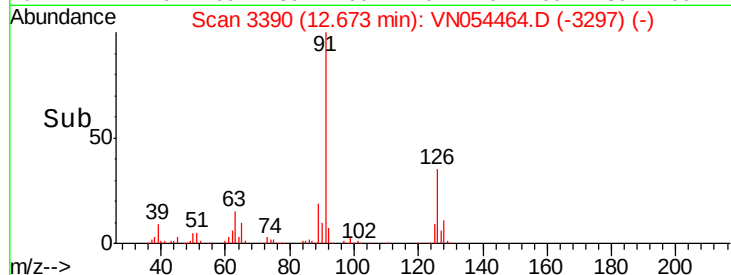
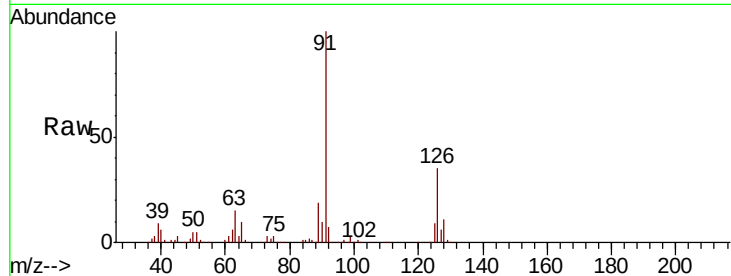
126 35.0 18.7 56.1

Manual Integrations

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#80

1,3,5-Trimethylbenzene

Concen: 48.554 ug/l

RT: 12.73 min Scan# 3408

Delta R.T. 0.00 min

Lab File: VN054464.D

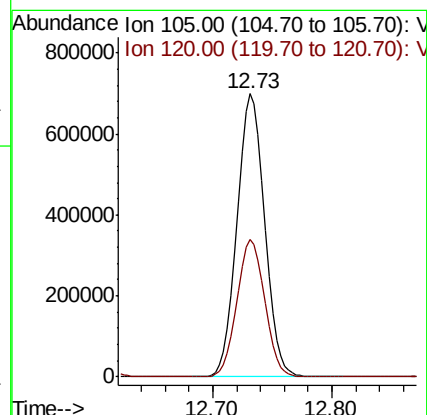
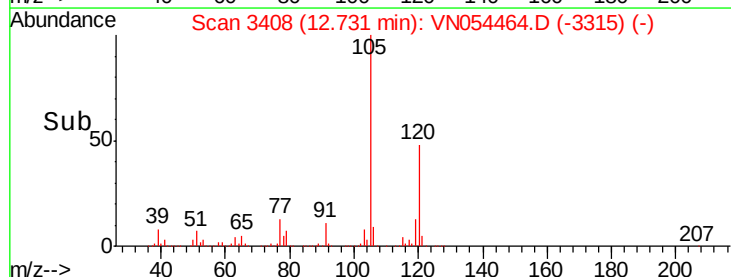
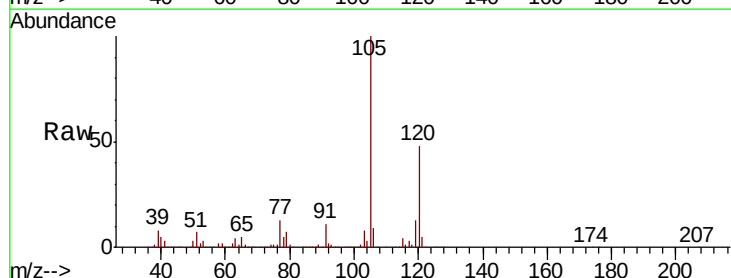
Acq: 20 Mar 2019 14:55

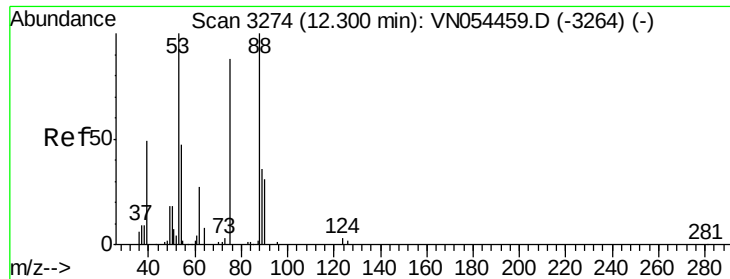
Tgt Ion: 105 Resp: 1123789

Ion Ratio Lower Upper

105 100

120 48.8 25.0 75.0





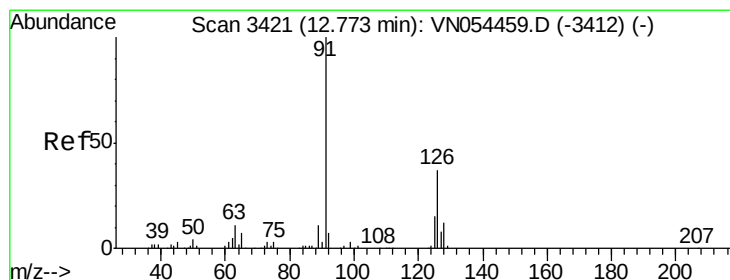
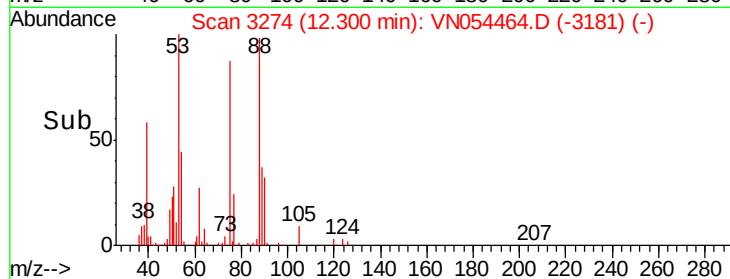
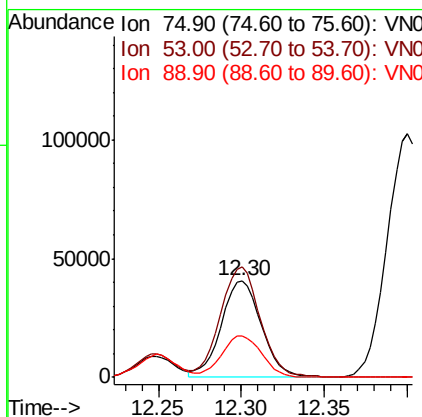
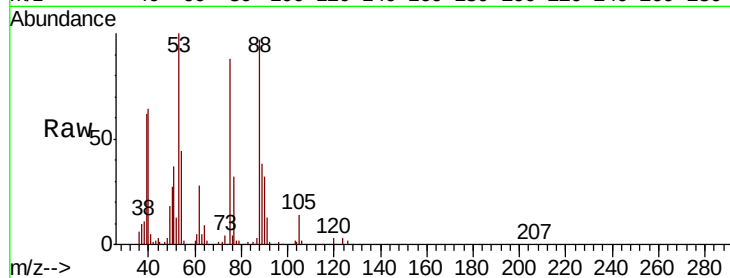
#81
trans-1,4-Dichloro-2-butene
Concen: 42.294 ug/l
RT: 12.30 min Scan# 3274
Delta R.T. 0.00 min
Lab File: VN054464.D
Acq: 20 Mar 2019 14:55

Instrument :
MSVOA_N
ClientSampled :
ICVVN032019

Tot Ion	Ratio	Lower	Upper
75	100		
53	116.6	76.2	114.2#
89	43.4	39.2	58.8

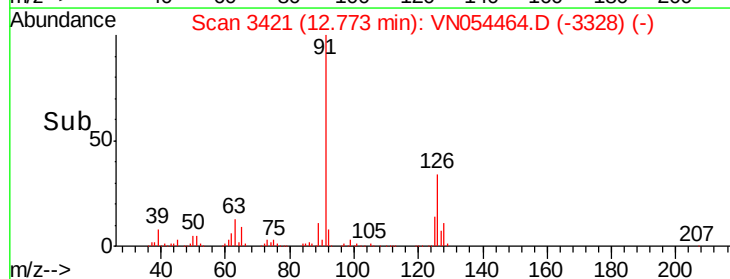
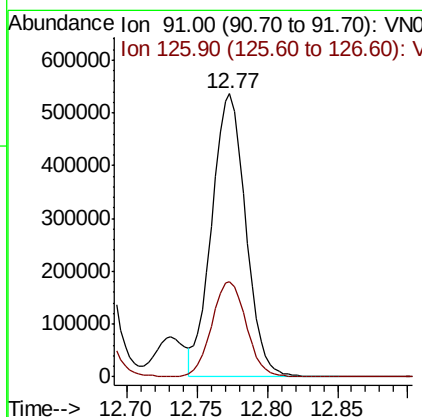
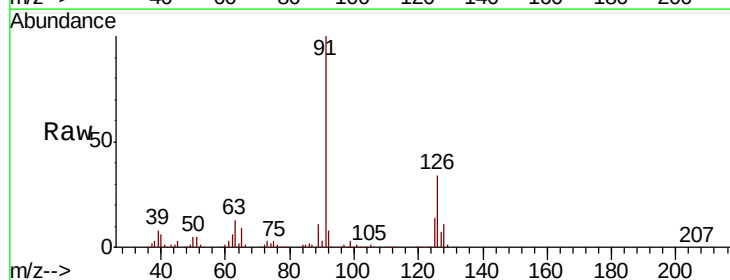
Manual Integrations
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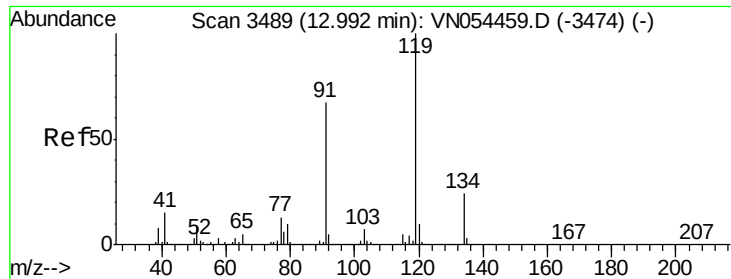
MMDadoda
3/22/2019 3:17:30 PM



#82
4-Chlorotoluene
Concen: 48.443 ug/l
RT: 12.77 min Scan# 3421
Delta R.T. 0.00 min
Lab File: VN054464.D
Acq: 20 Mar 2019 14:55

Tgt Ion	Ratio	Lower	Upper
91	100		
126	34.2	18.1	54.1





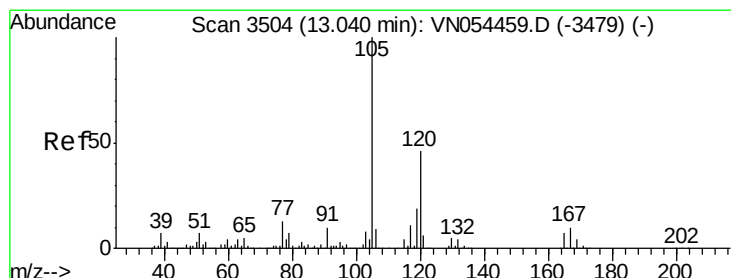
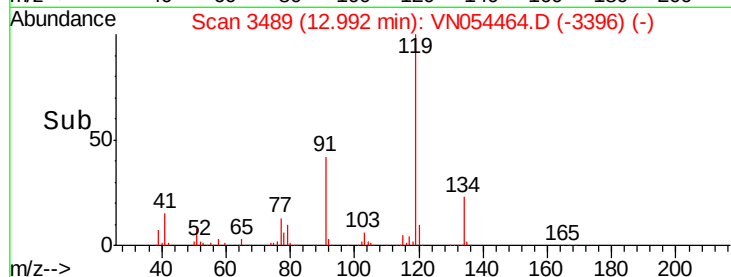
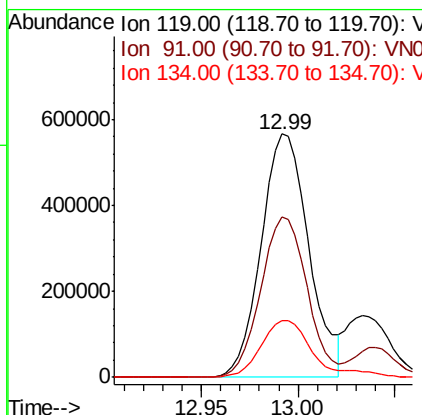
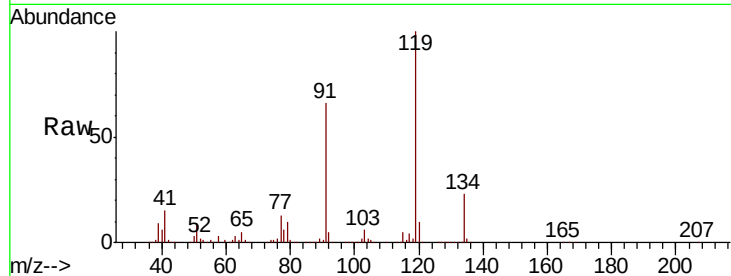
#83
 tert-Butylbenzene
 Concen: 48.311 ug/l
 RT: 12.99 min Scan# 3489
 Delta R.T. 0.00 min
 Lab File: VN054464.D
 Acq: 20 Mar 2019 14:55

Instrument :
 MSVOA_N
 ClientSampled :
 ICVVN032019

Tot Ion	Ratio	Lower	Upper
119	100		
91	63.9	30.9	92.8
134	25.3	13.2	39.6

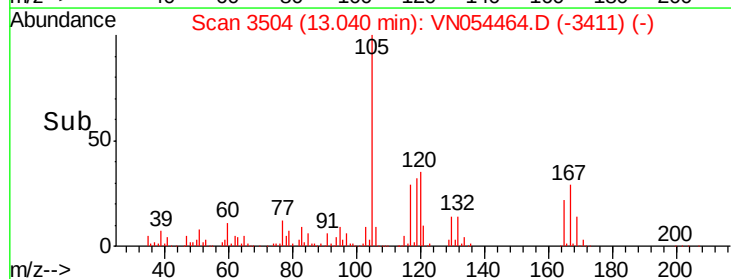
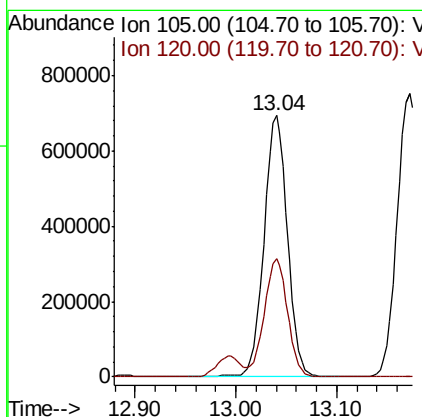
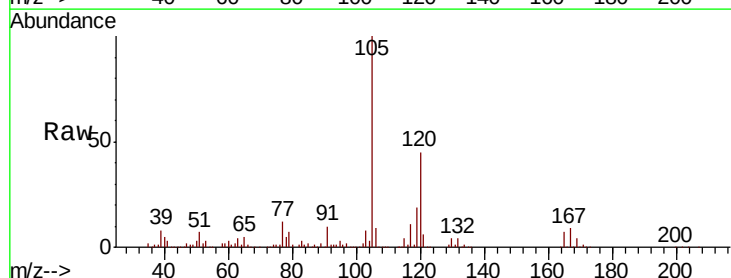
Manual Integrations
 APPROVED

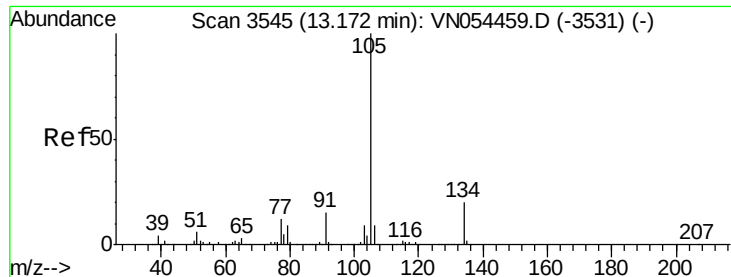
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 3/22/2019 3:17:30 PM



#84
 1,2,4-Trimethylbenzene
 Concen: 49.154 ug/l
 RT: 13.04 min Scan# 3504
 Delta R.T. 0.00 min
 Lab File: VN054464.D
 Acq: 20 Mar 2019 14:55

Tgt Ion	Ratio	Lower	Upper
105	100		
120	45.2	23.4	70.3





#85

sec-Butylbenzene

Concen: 49.009 ug/l

RT: 13.17 min Scan# 3545

Delta R.T. 0.00 min

Lab File: VN054464.D

Acq: 20 Mar 2019 14:55

Instrument :

MSVOA_N

ClientSampleId :

ICVVN032019

Tot Ion:105 Resp: 1230854

Ion Ratio Lower Upper

105 100

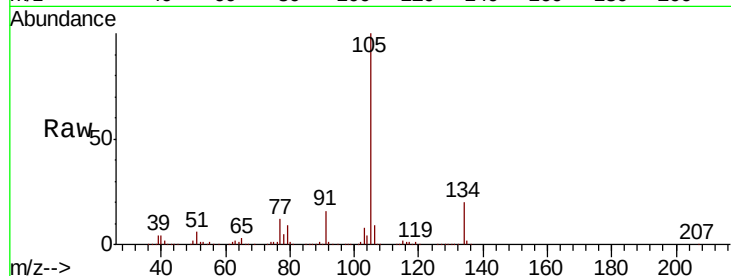
134 20.2 10.7 32.1

Manual Integrations

APPROVED

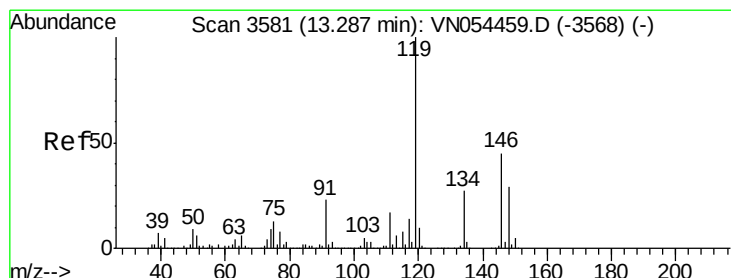
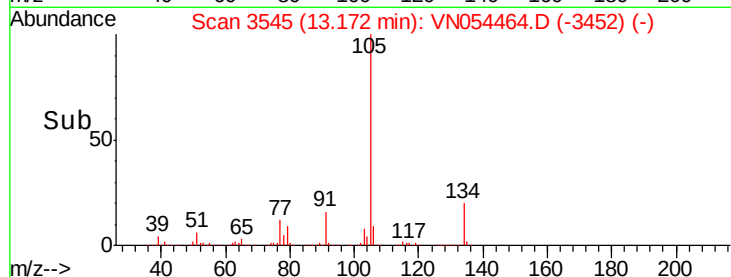
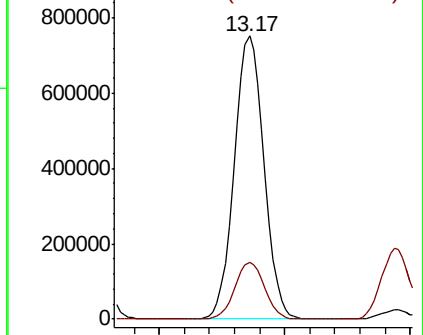
MMDadoda

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Abundance Ion 105.00 (104.70 to 105.70): V

Ion 134.00 (133.70 to 134.70): V



#86

p-Isopropyltoluene

Concen: 49.708 ug/l

RT: 13.29 min Scan# 3581

Delta R.T. 0.00 min

Lab File: VN054464.D

Acq: 20 Mar 2019 14:55

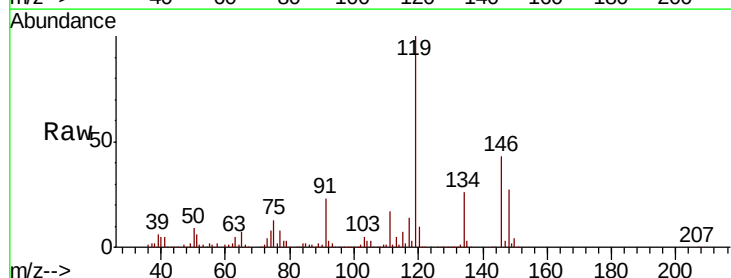
Tgt Ion:119 Resp: 1116877

Ion Ratio Lower Upper

119 100

134 26.7 13.6 40.8

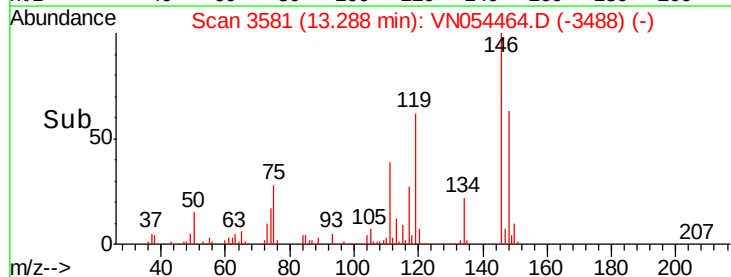
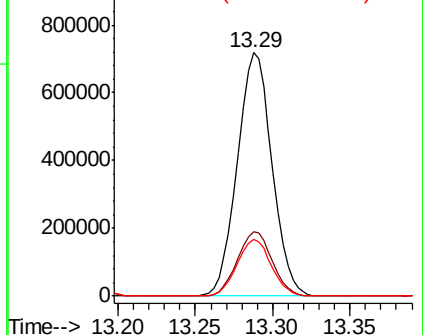
91 23.1 11.1 33.3

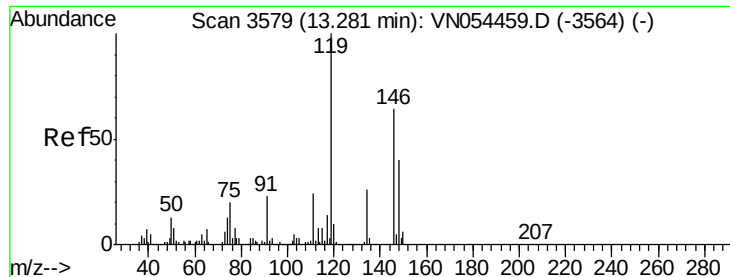


Abundance Ion 119.00 (118.70 to 119.70): V

Ion 134.00 (133.70 to 134.70): V

Ion 91.00 (90.70 to 91.70): V





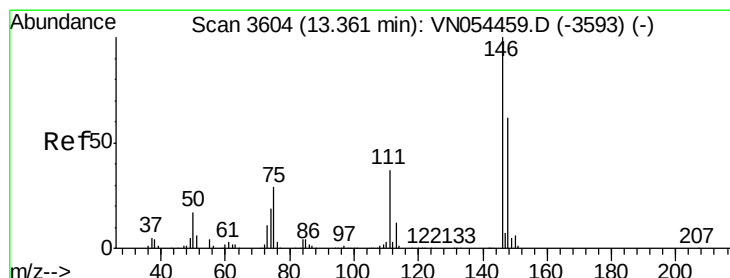
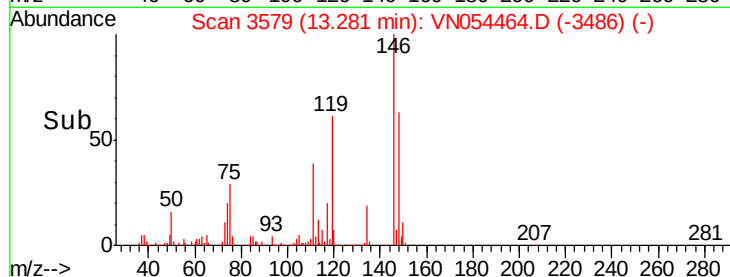
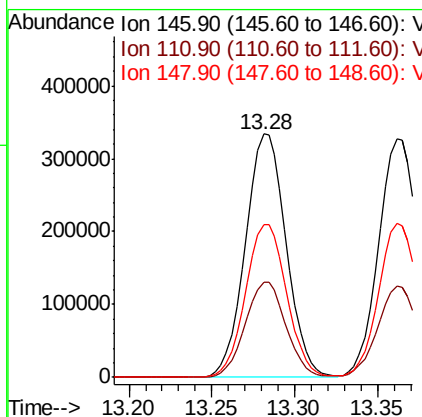
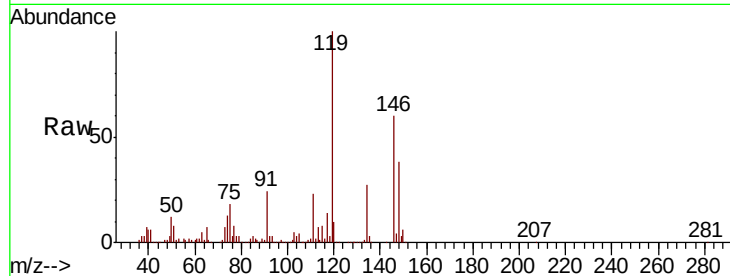
#87
 1,3-Dichlorobenzene
 Concen: 49.252 ug/l
 RT: 13.28 min Scan# 3579
 Delta R.T. 0.00 min
 Lab File: VN054464.D
 Acq: 20 Mar 2019 14:55

Instrument :
 MSVOA_N
 ClientSampleId :
 ICVVN032019

Tot Ion	Ratio	Lower	Upper
146	100		
111	39.1	18.8	56.3
148	63.4	32.2	96.6

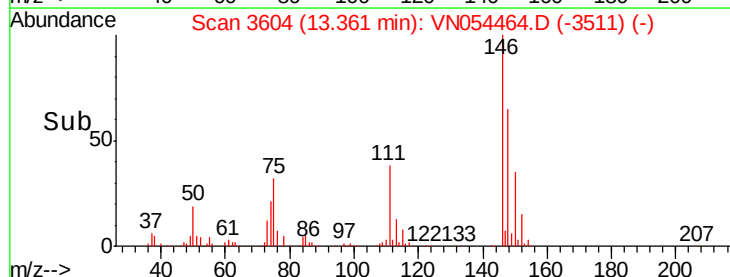
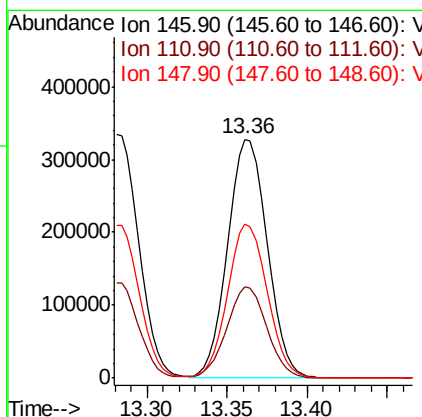
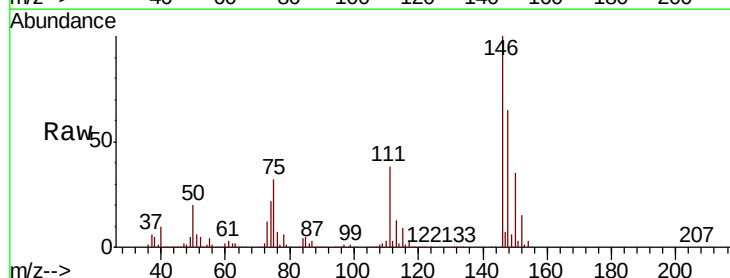
Manual Integrations
 APPROVED

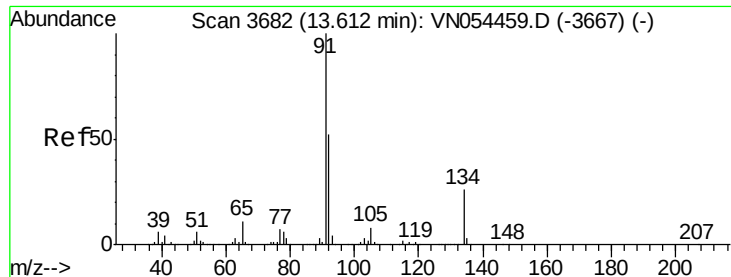
MMDadoda
 3/22/2019 3:17:30 PM



#88
 1,4-Dichlorobenzene
 Concen: 48.910 ug/l
 RT: 13.36 min Scan# 3604
 Delta R.T. 0.00 min
 Lab File: VN054464.D
 Acq: 20 Mar 2019 14:55

Tgt Ion	Ratio	Lower	Upper
146	100		
111	38.6	18.1	54.1
148	64.9	32.0	96.0





#89

n-Butylbenzene

Concen: 52.540 ug/l

RT: 13.61 min Scan# 3682

Delta R.T. 0.00 min

Lab File: VN054464.D

Acq: 20 Mar 2019 14:55

Instrument :

MSVOA_N

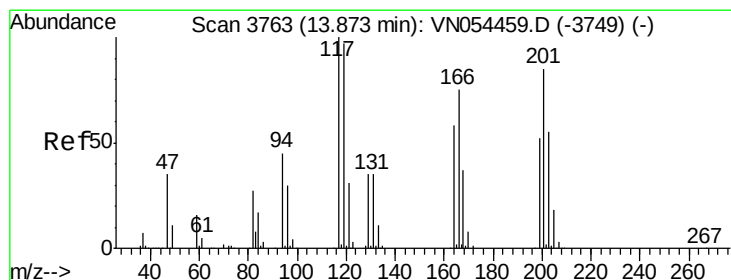
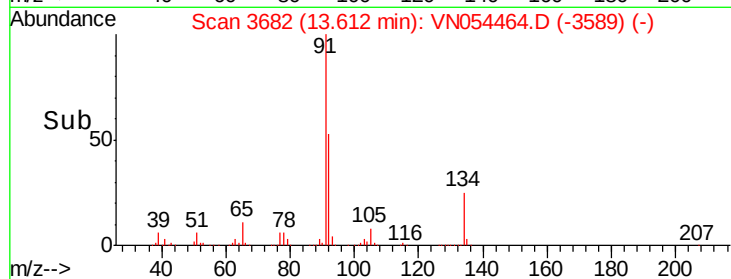
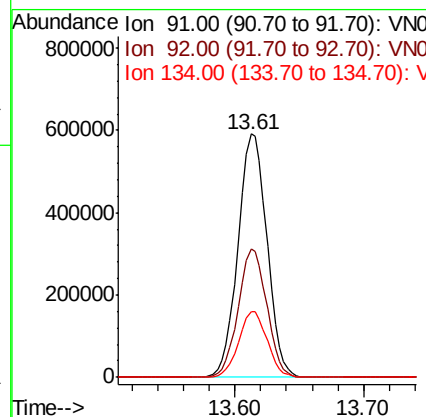
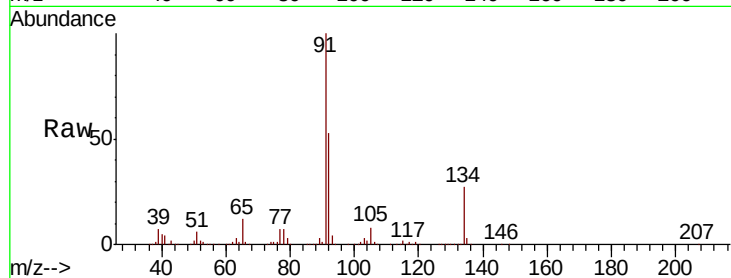
ClientSampleId :

ICVVN032019

Tot Ion:	91	Resp:	923084
Ion	Ratio	Lower	Upper
91	100		
92	52.1	26.2	78.6
134	26.6	14.3	42.9

Manual Integrations
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#90

Hexachloroethane

Concen: 50.854 ug/l

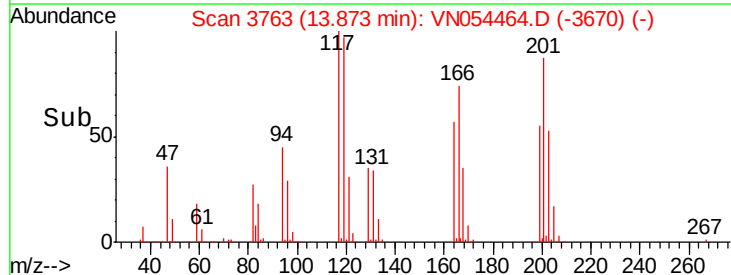
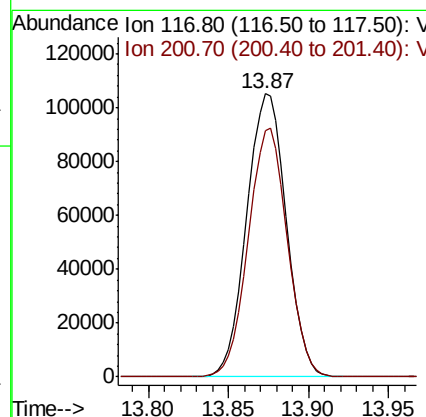
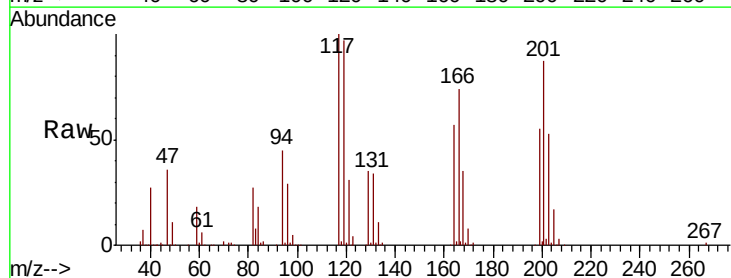
RT: 13.87 min Scan# 3763

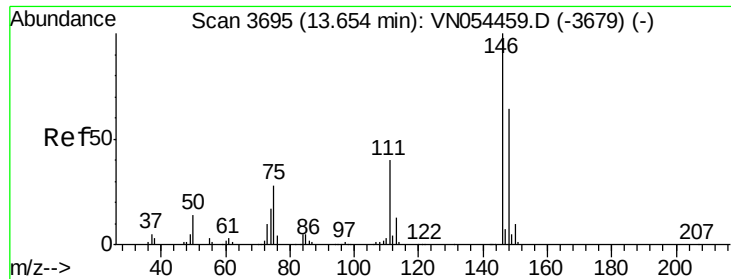
Delta R.T. 0.00 min

Lab File: VN054464.D

Acq: 20 Mar 2019 14:55

Tgt Ion:	117	Resp:	177364
Ion	Ratio	Lower	Upper
117	100		
201	86.6	48.1	144.4





#91

1,2-Dichlorobenzene

Concen: 48.577 ug/l

RT: 13.65 min Scan# 3695

Delta R.T. 0.00 min

Lab File: VN054464.D

Acq: 20 Mar 2019 14:55

Instrument :

MSVOA_N

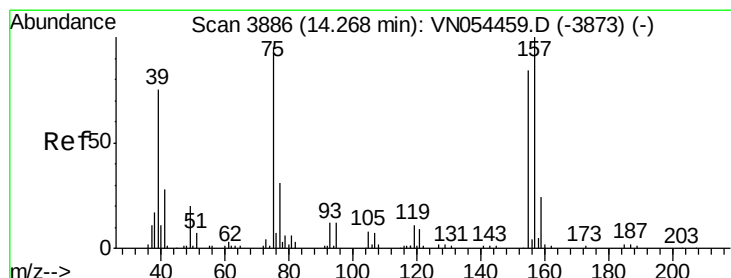
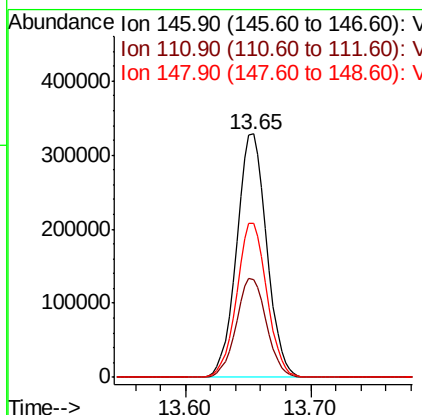
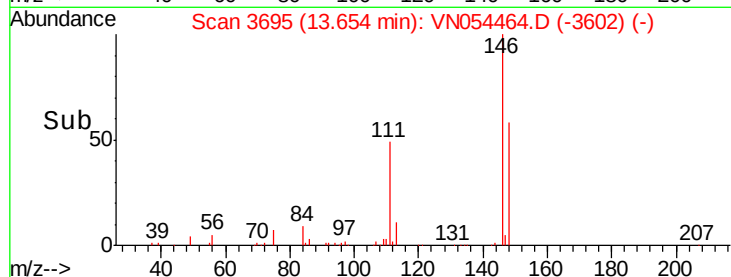
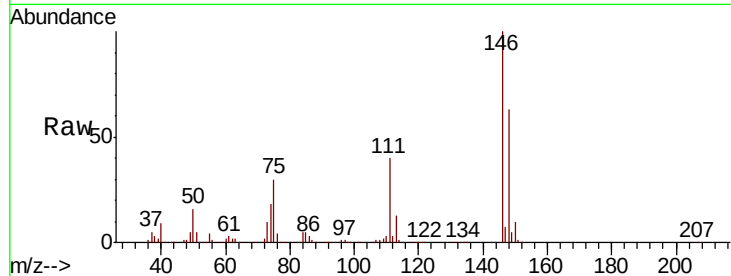
ClientSampled :

ICVVN032019

Tot Ion:	146	Resp:	546112
Ion Ratio	Lower	Upper	
146	100		
111	40.8	19.1	57.3
148	63.4	32.4	97.0

Manual Integrations
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#92

1,2-Dibromo-3-Chloropropane

Concen: 47.279 ug/l

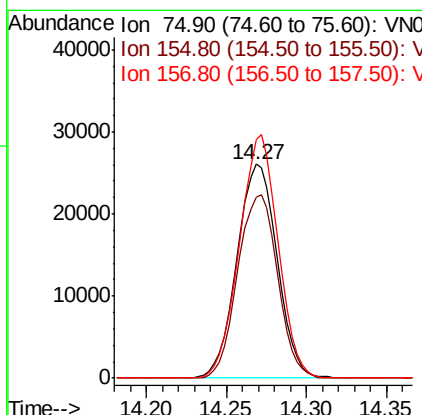
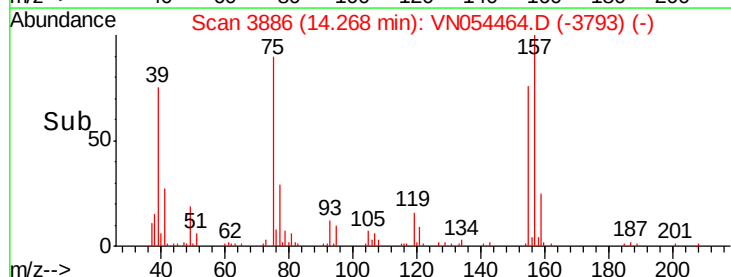
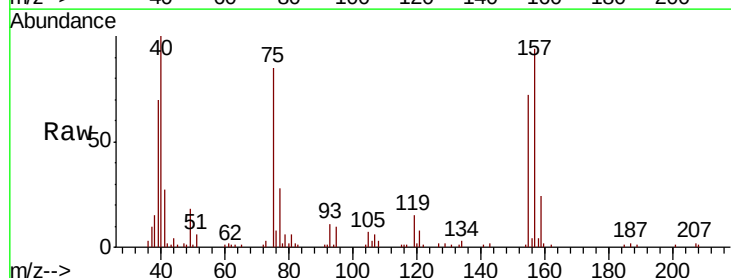
RT: 14.27 min Scan# 3886

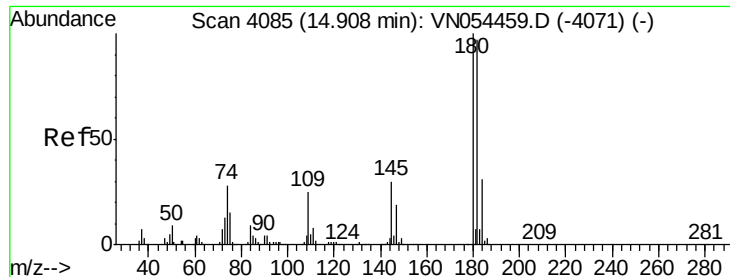
Delta R.T. 0.00 min

Lab File: VN054464.D

Acq: 20 Mar 2019 14:55

Tgt Ion:	75	Resp:	44705
Ion Ratio	Lower	Upper	
75	100		
155	84.8	50.1	150.3
157	109.0	63.1	189.3





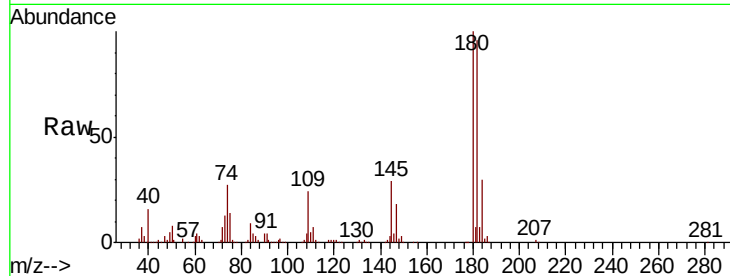
#93
 1,2,4-Trichlorobenzene
 Concen: 52.310 ug/l
 RT: 14.91 min Scan# 4085
 Delta R.T. 0.00 min
 Lab File: VN054464.D
 Acq: 20 Mar 2019 14:55

Instrument :
 MSVOA_N
 ClientSampleId :
 ICVVN032019

Tot Ion	Ratio	Resp	Lower	Upper
180	100	293160		
182	94.5	48.0	144.2	
145	28.7	14.2	42.8	

Manual Integrations
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 3/22/2019 3:17:30 PM

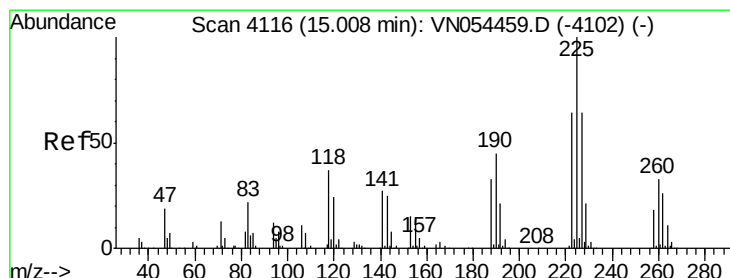
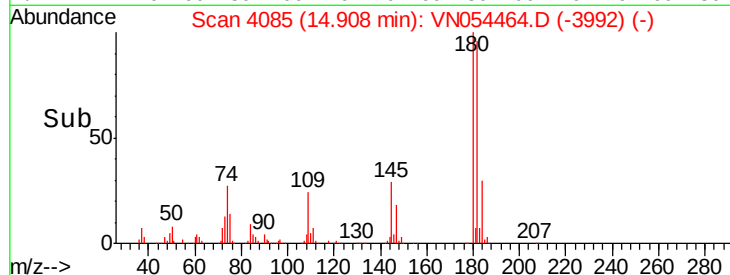
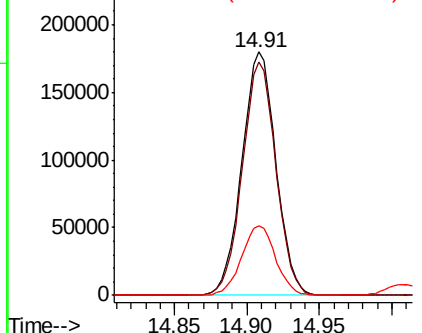


Abundance

Ion 179.80 (179.50 to 180.50): V

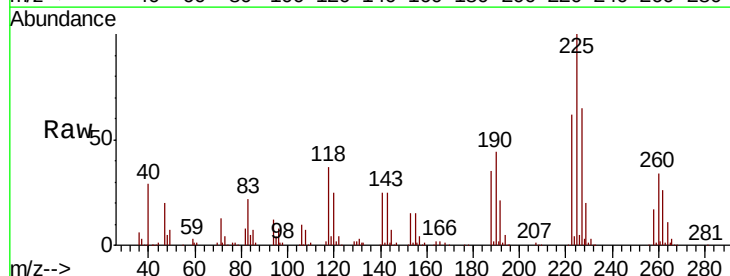
Ion 181.80 (181.50 to 182.50): V

Ion 144.80 (144.50 to 145.50): V



#94
 Hexachlorobutadiene
 Concen: 55.185 ug/l
 RT: 15.01 min Scan# 4116
 Delta R.T. 0.00 min
 Lab File: VN054464.D
 Acq: 20 Mar 2019 14:55

Tgt Ion	Ratio	Resp	Lower	Upper
225	100	172953		
223	63.3	31.1	93.5	
227	65.1	31.9	95.9	

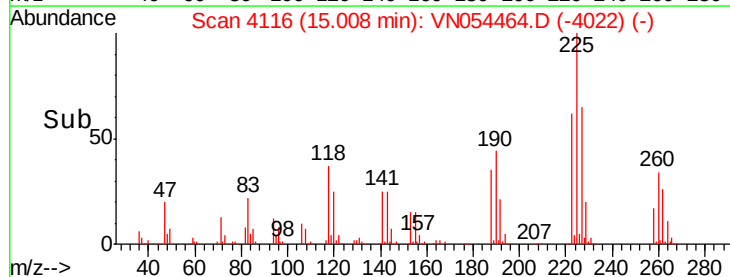
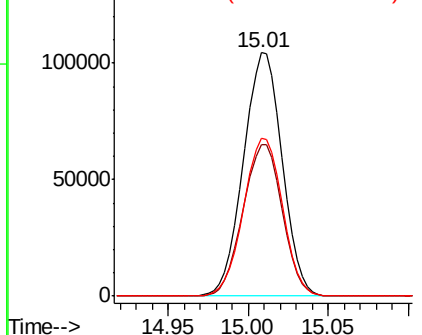


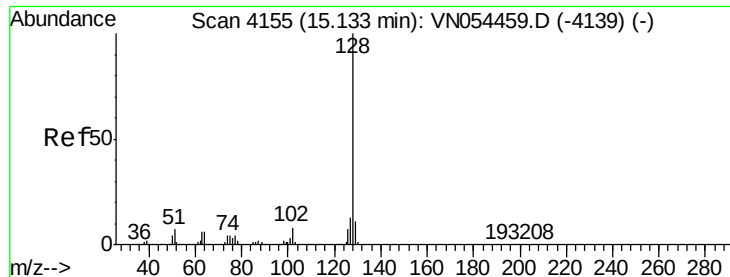
Abundance

Ion 224.70 (224.40 to 225.40): V

Ion 222.70 (222.40 to 223.40): V

Ion 226.70 (226.40 to 227.40): V





#95

Naphthalene

Concen: 48.148 ug/l

RT: 15.13 min Scan# 4155

Delta R.T. 0.00 min

Lab File: VN054464.D

Acq: 20 Mar 2019 14:55

Instrument :

MSVOA_N

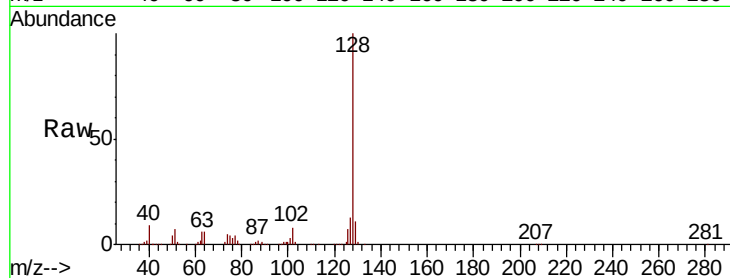
ClientSampleId :

ICVVN032019

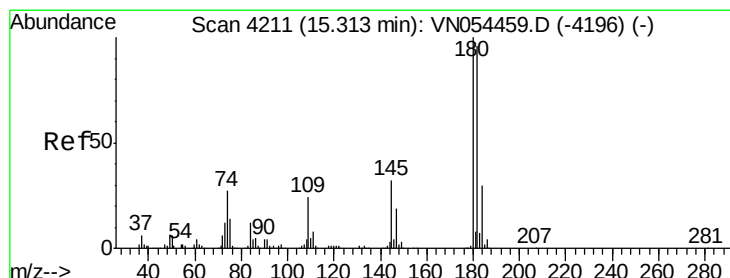
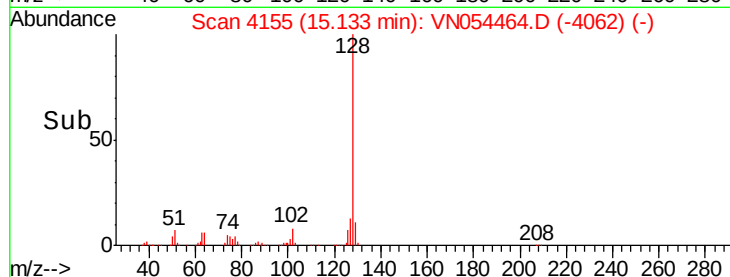
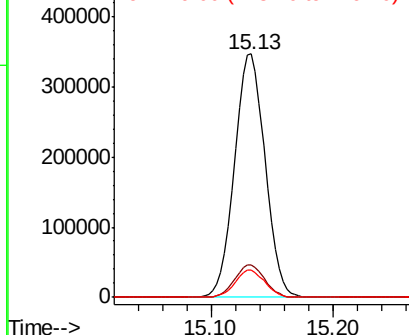
Tot Ion:	128	Resp:	601875
Ion Ratio	Lower	Upper	
128	100		
127	13.2	10.1	15.1
129	11.0	8.7	13.1

Manual Integrations
APPROVED

MMDadoda
3/22/2019 3:17:30 PM



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



#96

1,2,3-Trichlorobenzene

Concen: 50.344 ug/l

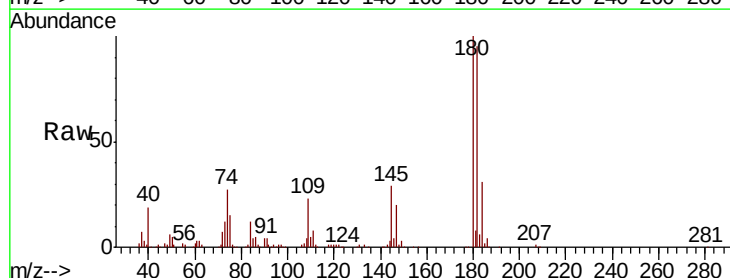
RT: 15.31 min Scan# 4211

Delta R.T. 0.00 min

Lab File: VN054464.D

Acq: 20 Mar 2019 14:55

Tgt Ion:	180	Resp:	280809
Ion Ratio	Lower	Upper	
180	100		
182	95.2	47.5	142.6
145	30.0	14.8	44.3



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

