

Data Path : Z:\VOASRV\HPCHEM1\MSVOA N\DATA\VN041319\
 Data File : VN055002.D
 Acq On : 12 Apr 2019 16:32
 Operator : JC/SP
 Sample : VSTDICC100
 Misc : 5.00mL/MSVOA N/WATER
 ALS Vial : 6 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 VSTDICC100

Manual Integrations
 APPROVED

MMDadoda
 4/16/2019 1:58:14 PM

Quant Time: Apr 13 03:22:11 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_N\METHODS\82N041319W.M
 Quant Title : SW846 8260
 QLast Update : Sat Apr 13 02:20:24 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	7.67	168	435652	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	8.58	114	700387	50.00	ug/l	0.00
63) Chlorobenzene-d5	11.41	117	625245	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.34	152	284766	50.00	ug/l	0.00

System Monitoring Compounds

33) 1,2-Dichloroethane-d4	8.03	65	542076	94.66	ug/l	0.00
Spiked Amount	50.000		Recovery	=	189.32%	
35) Dibromofluoromethane	7.59	113	438428	96.18	ug/l	0.00
Spiked Amount	50.000		Recovery	=	192.36%	
50) Toluene-d8	10.09	98	1640330	95.23	ug/l	0.00
Spiked Amount	50.000		Recovery	=	190.46%	
62) 4-Bromofluorobenzene	12.40	95	574250	100.17	ug/l	0.00
Spiked Amount	50.000		Recovery	=	200.34%	

Target Compounds

						Qvalue
2) Dichlorodifluoromethane	1.85	85	477186	92.932	ug/l	99
3) Chloromethane	2.06	50	612608	90.493	ug/l	96
4) Vinyl Chloride	2.19	62	504375	85.929	ug/l	100
5) Bromomethane	2.54	94	276142	82.242	ug/l	97
6) Chloroethane	2.70	64	275064	83.735	ug/l	97
7) Trichlorofluoromethane	3.02	101	629382	87.908	ug/l	99
8) Diethyl Ether	3.41	74	200062	87.165	ug/l	95
9) 1,1,2-Trichlorotrifluoroet	3.75	101	324613	85.664	ug/l	99
10) Methyl Iodide	3.94	142	497069	93.077	ug/l	99
11) Tert butyl alcohol	4.82	59	177081	580.455	ug/l	100
12) 1,1-Dichloroethene	3.72	96	313402	83.587	ug/l	98
13) Acrolein	3.61	56	207743	521.307	ug/l	98
14) Allyl chloride	4.31	41	832902	98.898	ug/l	99
15) Acrylonitrile	4.99	53	958965	533.264	ug/l	99
16) Acetone	3.82	43	694993	431.200	ug/l	99
17) Carbon Disulfide	4.04	76	1112140	93.167	ug/l	100
18) Methyl Acetate	4.33	43	440275	100.916	ug/l	99
19) Methyl tert-butyl Ether	5.05	73	1230799	99.164	ug/l	98
20) Methylene Chloride	4.54	84	481836	90.635	ug/l	98
21) trans-1,2-Dichloroethene	5.03	96	442372	93.444	ug/l	93
22) Diisopropyl ether	5.96	45	1701497	98.009	ug/l	98
23) Vinyl Acetate	5.90	43	6368777	526.585	ug/l	100
24) 1,1-Dichloroethane	5.84	63	878920	93.134	ug/l	99
25) 2-Butanone	6.85	43	1238878	569.836	ug/l	100
26) 2,2-Dichloropropane	6.82	77	596766	90.794	ug/l	99
27) cis-1,2-Dichloroethene	6.83	96	513676	95.279	ug/l	100
28) Bromochloromethane	7.19	49	417239	93.632	ug/l	100
29) Tetrahydrofuran	7.22	42	795677	553.564	ug/l	100
30) Chloroform	7.37	83	840723	93.880	ug/l	100
31) Cyclohexane	7.65	56	822387	76.357	ug/l	97
32) 1,1,1-Trichloroethane	7.57	97	694389	92.268	ug/l	100
36) 1,1-Dichloropropene	7.79	75	646052	94.439	ug/l	100
37) Ethyl Acetate	6.94	43	521340	108.434	ug/l	100
38) Carbon Tetrachloride	7.77	117	594470	90.290	ug/l	98

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Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
39) Methylcyclohexane	9.08	83	734292	97.418	ug/l	100
40) Benzene	8.04	78	1921352	97.044	ug/l	100
41) Methacrylonitrile	7.17	41	320205	116.827	ug/l	93
42) 1,2-Dichloroethane	8.13	62	660375	94.723	ug/l	99
43) Isopropyl Acetate	8.17	43	891041	110.142	ug/l	99
44) Trichloroethene	8.83	130	489588	96.626	ug/l	98
45) 1,2-Dichloropropane	9.12	63	542426	98.308	ug/l	100
46) Dibromomethane	9.21	93	307069	97.330	ug/l	96
47) Bromodichloromethane	9.40	83	649563	98.777	ug/l	98
48) Methyl methacrylate	9.20	41	449974	110.632	ug/l	100
49) 1,4-Dioxane	9.20	88	100111	2391.223	ug/l	99
51) 4-Methyl-2-Pentanone	9.99	43	2588855	570.483	ug/l	99
52) Toluene	10.16	92	1141646	97.994	ug/l	99
53) t-1,3-Dichloropropene	10.38	75	653208	108.249	ug/l	98
54) cis-1,3-Dichloropropene	9.84	75	776073	105.102	ug/l	98
55) 1,1,2-Trichloroethane	10.56	97	430598	100.963	ug/l	98
56) Ethyl methacrylate	10.43	69	612833	110.334	ug/l	99
57) 1,3-Dichloropropane	10.71	76	756519	101.640	ug/l	99
58) 2-Chloroethyl Vinyl ether	9.70	63	1244838	570.241	ug/l	99
59) 2-Hexanone	10.75	43	1665707	590.174	ug/l	100
60) Dibromochloromethane	10.90	129	470824	106.111	ug/l	99
61) 1,2-Dibromoethane	11.01	107	425289	106.351	ug/l	99
64) Tetrachloroethene	10.63	164	454849	90.852	ug/l	97
65) Chlorobenzene	11.43	112	1205304	95.728	ug/l	100
66) 1,1,1,2-Tetrachloroethane	11.51	131	453838	98.432	ug/l	99
67) Ethyl Benzene	11.51	91	2211604	97.476	ug/l	100
68) m/p-Xylenes	11.62	106	1634861	196.920	ug/l	100
69) o-Xylene	11.95	106	795234	98.365	ug/l	100
70) Styrene	11.96	104	1344089	103.506	ug/l	98
71) Bromoform	12.13	173	308563	110.567	ug/l #	99
73) Isopropylbenzene	12.25	105	2117401	88.621	ug/l	98
74) N-amyl acetate	12.07	43	729572	109.041	ug/l	99
75) 1,1,2,2-Tetrachloroethane	12.50	83	549869	92.321	ug/l	99
76) 1,2,3-Trichloropropane	12.55	75	457573m	88.968	ug/l	
77) Bromobenzene	12.53	156	531616	91.756	ug/l	100
78) n-propylbenzene	12.59	91	2409334	91.497	ug/l	100
79) 2-Chlorotoluene	12.67	91	1448582	88.763	ug/l	100
80) 1,3,5-Trimethylbenzene	12.73	105	1788695	91.218	ug/l	99
81) trans-1,4-Dichloro-2-buten	12.30	75	138156	112.586	ug/l	91
82) 4-Chlorotoluene	12.77	91	1453347	94.166	ug/l	99
83) tert-Butylbenzene	12.99	119	1494690	89.370	ug/l	99
84) 1,2,4-Trimethylbenzene	13.04	105	1759682	92.827	ug/l	99
85) sec-Butylbenzene	13.17	105	1958642	90.536	ug/l	100
86) p-Isopropyltoluene	13.29	119	1759049	94.461	ug/l	100
87) 1,3-Dichlorobenzene	13.28	146	917089	95.484	ug/l	100
88) 1,4-Dichlorobenzene	13.36	146	884662	96.626	ug/l	100
89) n-Butylbenzene	13.61	91	1506769	101.958	ug/l	100
90) Hexachloroethane	13.87	117	293231	94.670	ug/l	99
91) 1,2-Dichlorobenzene	13.65	146	887310	93.805	ug/l	99
92) 1,2-Dibromo-3-Chloropropan	14.27	75	84817	102.330	ug/l	95

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VSTDICC100

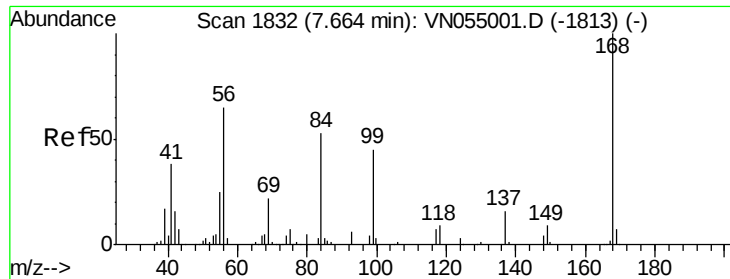
Manual Integrations
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Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
93) 1,2,4-Trichlorobenzene	14.91	180	474840	114.175	ug/l	100
94) Hexachlorobutadiene	15.01	225	276545	87.254	ug/l	100
95) Naphthalene	15.13	128	1108322	120.667	ug/l	99
96) 1,2,3-Trichlorobenzene	15.31	180	467278	108.140	ug/l	100

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



#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 7.67 min Scan# 1833

Delta R.T. 0.00 min

Lab File: VN055002.D

Acq: 12 Apr 2019 16:32

Instrument :

MSVOA_N

ClientSampleId :

VSTDIC100

Tot Ion:168 Resp: 435652

Ion Ratio Lower Upper

168 100

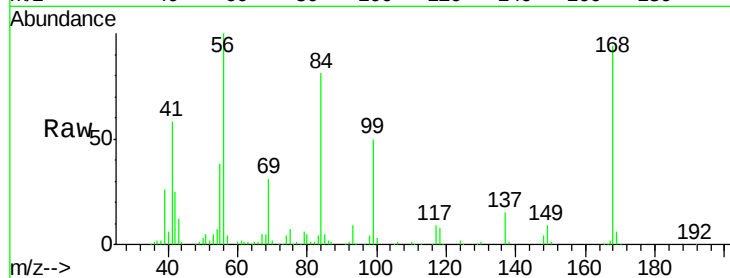
99 52.7 41.9 62.9

Manual Integrations

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Abundance Ion 167.90 (167.60 to 168.60): VN055001.D (-1813) (-)

Ion 98.90 (98.60 to 99.60): VN055001.D (-1813) (-)

7.67

200000

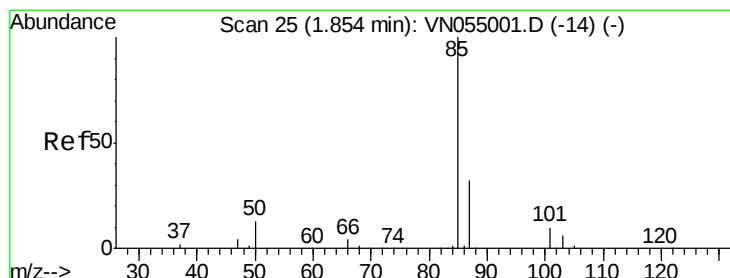
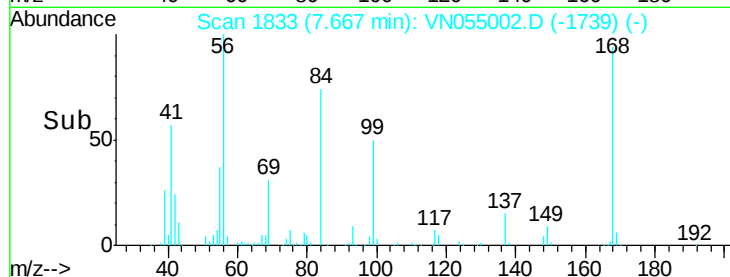
150000

100000

50000

0

Time-->



#2

Dichlorodifluoromethane

Concen: 92.932 ug/l

RT: 1.85 min Scan# 24

Delta R.T. -0.00 min

Lab File: VN055002.D

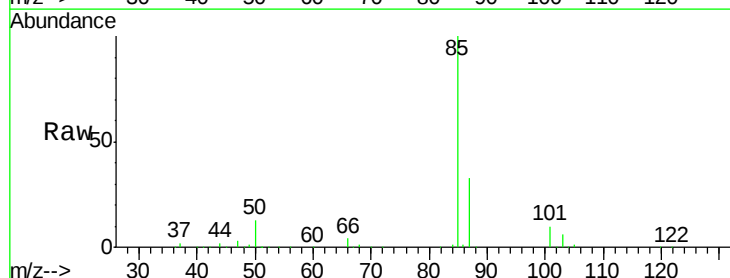
Acq: 12 Apr 2019 16:32

Tgt Ion: 85 Resp: 477186

Ion Ratio Lower Upper

85 100

87 32.6 16.1 48.3



Abundance Ion 84.90 (84.60 to 85.60): VN055001.D (-14) (-)

Ion 86.90 (86.60 to 87.60): VN055001.D (-14) (-)

1.85

400000

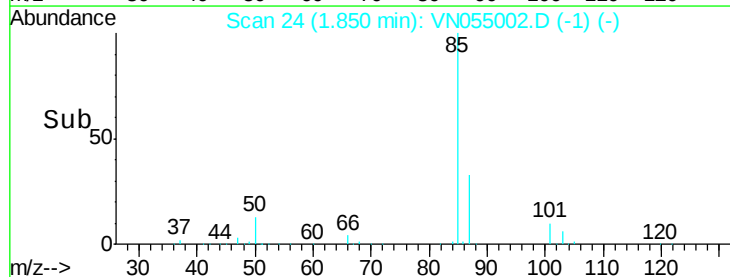
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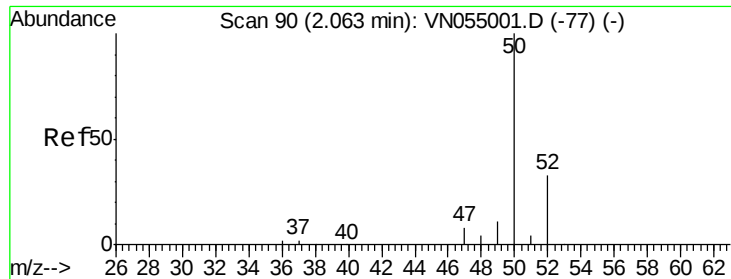
200000

100000

0

Time-->





#3

Chloromethane

Concen: 90.493 ug/l

RT: 2.06 min Scan# 89

Delta R.T. -0.00 min

Lab File: VN055002.D

Acq: 12 Apr 2019 16:32

Instrument :

MSVOA_N

ClientSampleId :

VSTDICC100

Tot Ion: 50 Resp: 612608

Ion Ratio Lower Upper

50 100

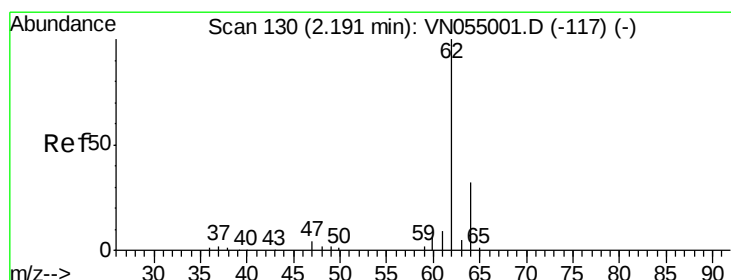
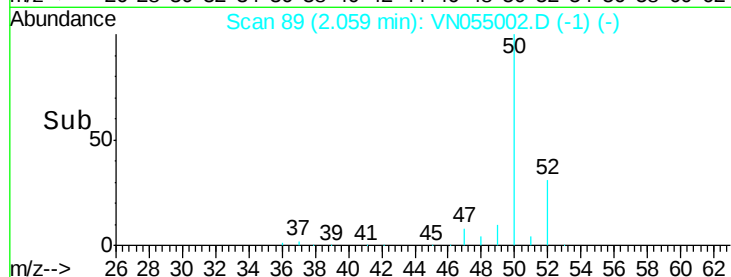
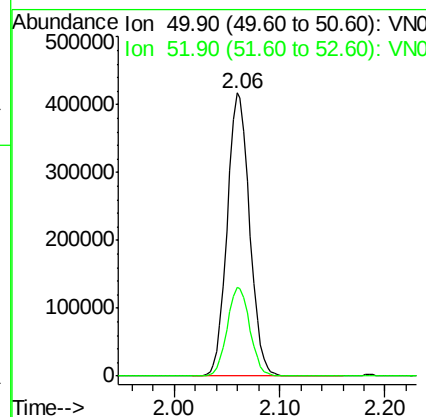
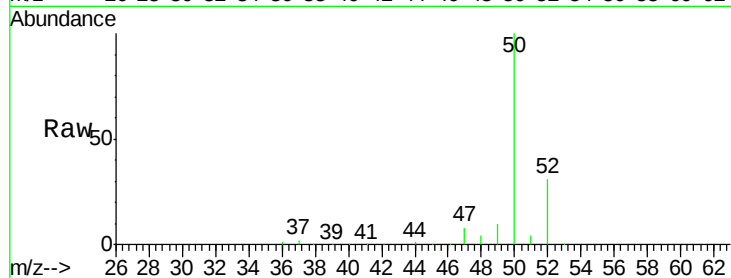
52 31.3 26.6 40.0

Manual Integrations

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#4

Vinyl Chloride

Concen: 85.929 ug/l

RT: 2.19 min Scan# 129

Delta R.T. -0.00 min

Lab File: VN055002.D

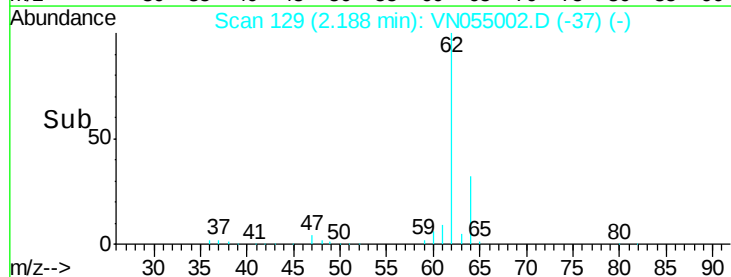
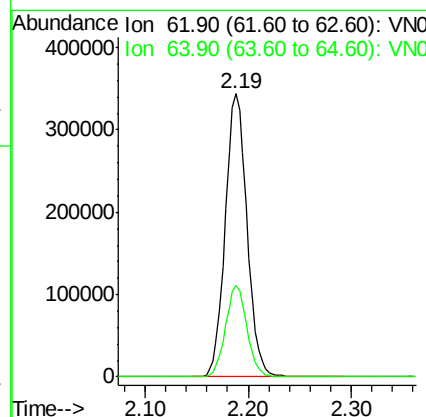
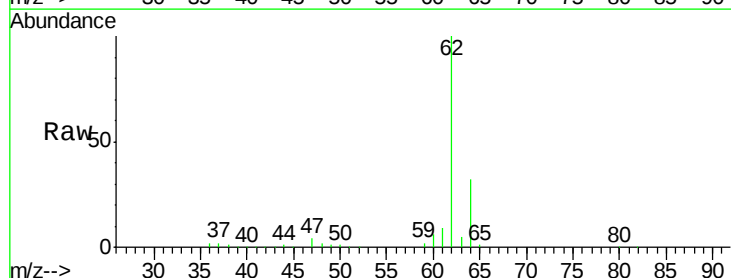
Acq: 12 Apr 2019 16:32

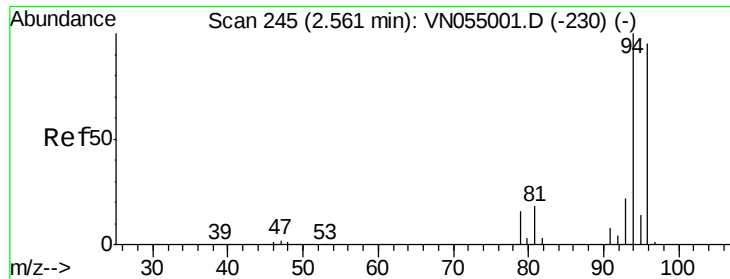
Tgt Ion: 62 Resp: 504375

Ion Ratio Lower Upper

62 100

64 32.1 25.8 38.6





#5

Bromomethane

Concen: 82.242 ug/l

RT: 2.54 min Scan# 240

Delta R.T. -0.02 min

Lab File: VN055002.D

Acq: 12 Apr 2019 16:32

Instrument :

MSVOA_N

ClientSampleId :

VSTDIC100

Tot Ion: 94 Resp: 276142

Ion Ratio Lower Upper

94 100

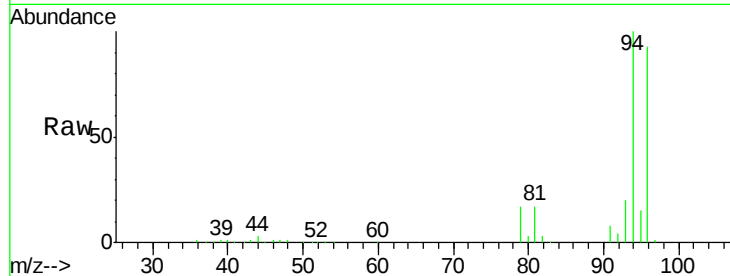
96 92.8 76.2 114.4

Manual Integrations

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Abundance Ion 93.90 (93.60 to 94.60): VNO

Ion 95.90 (95.60 to 96.60): VNO

150000

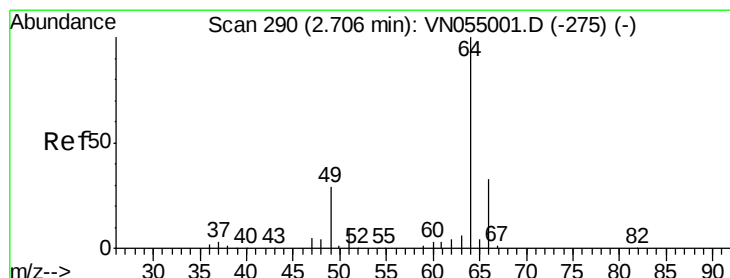
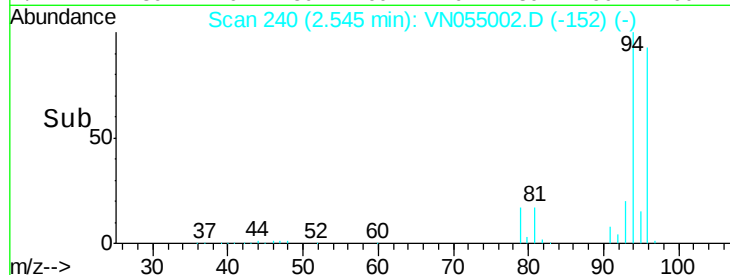
100000

50000

0

2.45 2.50 2.55 2.60

Time-->



#6

Chloroethane

Concen: 83.735 ug/l

RT: 2.70 min Scan# 287

Delta R.T. -0.01 min

Lab File: VN055002.D

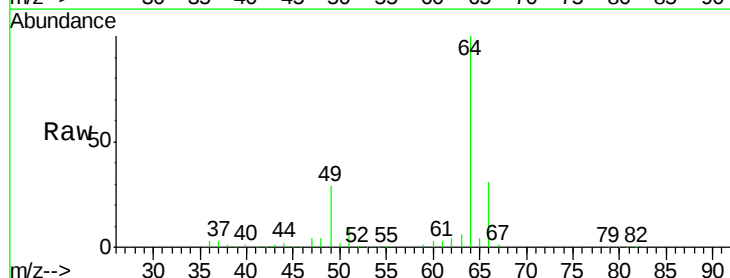
Acq: 12 Apr 2019 16:32

Tgt Ion: 64 Resp: 275064

Ion Ratio Lower Upper

64 100

66 31.3 26.6 40.0



Abundance Ion 63.90 (63.60 to 64.60): VNO

Ion 65.90 (65.60 to 66.60): VNO

150000

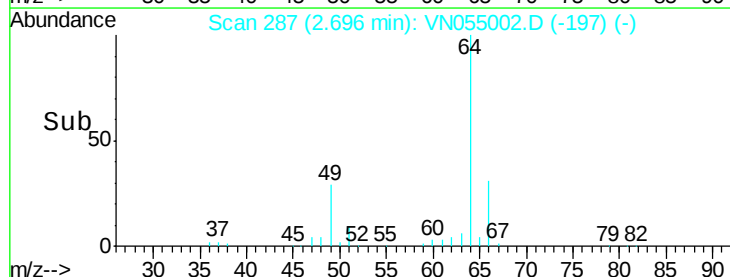
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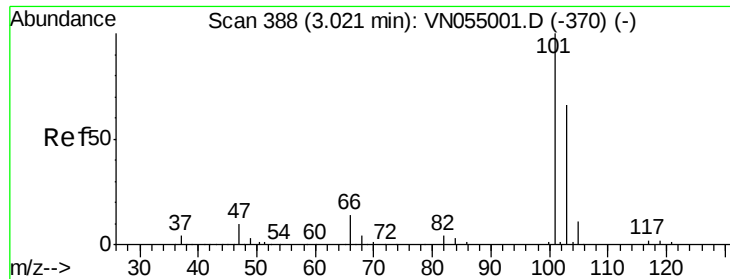
50000

0

2.60 2.70 2.80

Time-->





#7

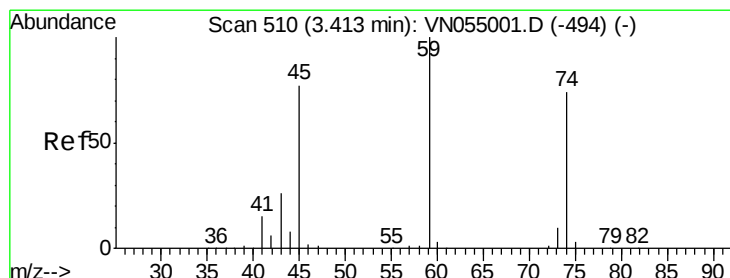
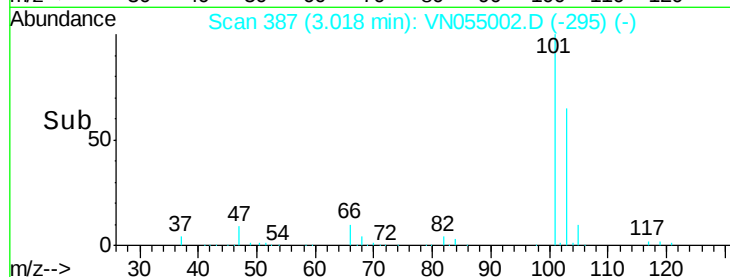
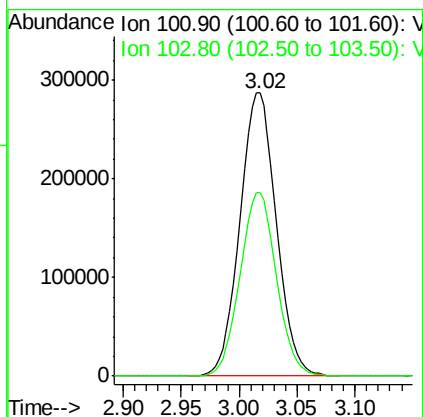
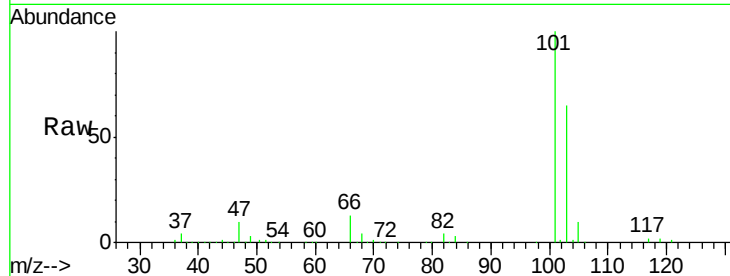
Trichlorofluoromethane
Concen: 87.908 ug/l
RT: 3.02 min Scan# 387
Delta R.T. -0.00 min
Lab File: VN055002.D
Acq: 12 Apr 2019 16:32

Instrument :
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VSTDIC100

Tot Ion	Ion	Ratio	Resp	Lower	Upper
101	100		629382		
103	64.9	52.5	78.7		

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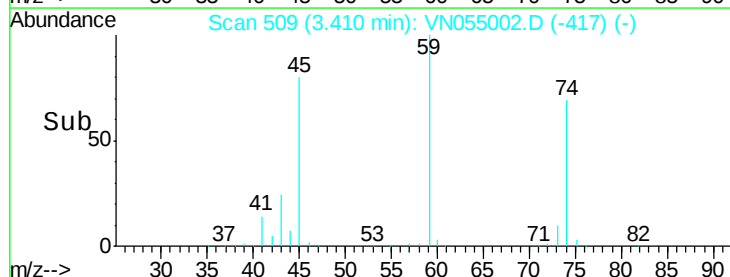
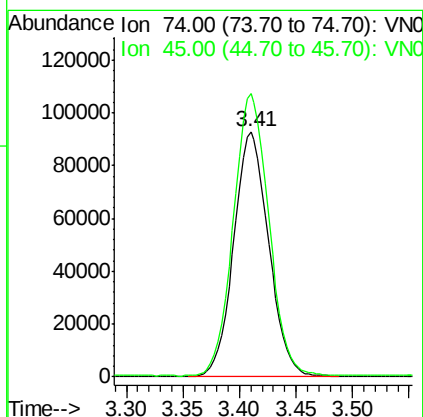
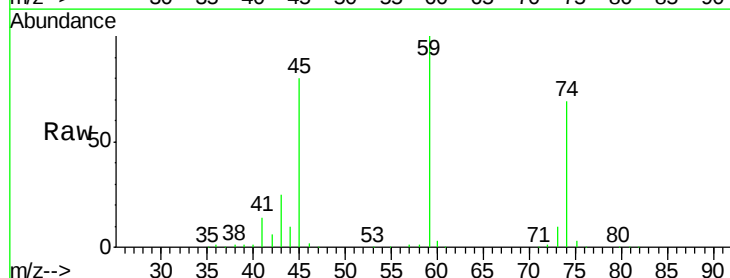
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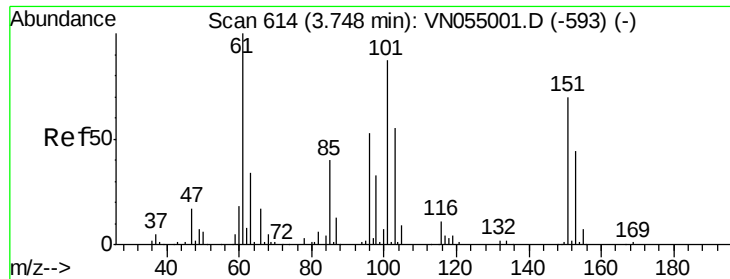


#8

Diethyl Ether
Concen: 87.165 ug/l
RT: 3.41 min Scan# 509
Delta R.T. -0.00 min
Lab File: VN055002.D
Acq: 12 Apr 2019 16:32

Tgt Ion	Ion	Ratio	Resp	Lower	Upper
74	100		200062		
45	116.6	55.7	167.1		





#9

1,1,2-Trichlorotrifluoroethane

Concen: 85.664 ug/l

RT: 3.75 min Scan# 614

Delta R.T. -0.00 min

Lab File: VN055002.D

Acq: 12 Apr 2019 16:32

Instrument :

MSVOA_N

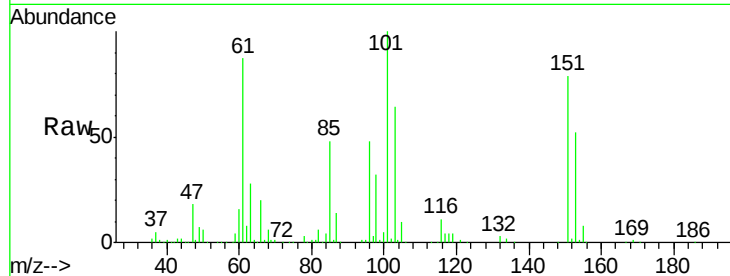
ClientSampleId :

VSTDIC100

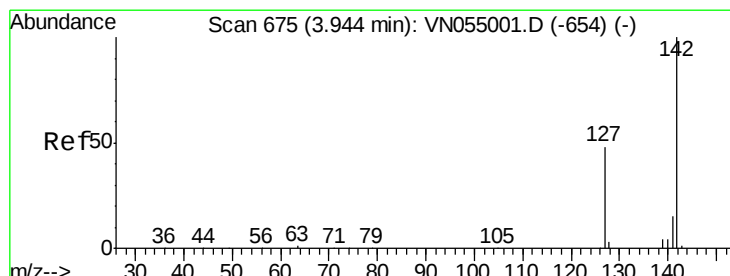
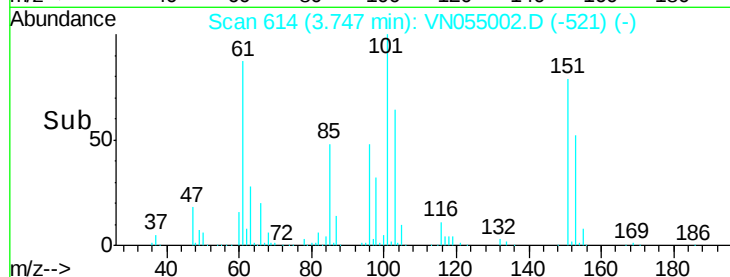
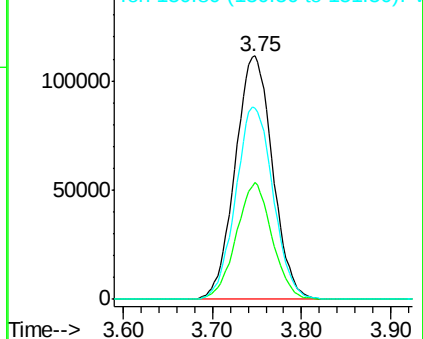
Tot Ion:	101	Resp:	324613
Ion Ratio	Lower	Upper	
101	100		
85	45.9	36.9	55.3
151	79.1	64.4	96.6

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



#10

Methyl Iodide

Concen: 93.077 ug/l

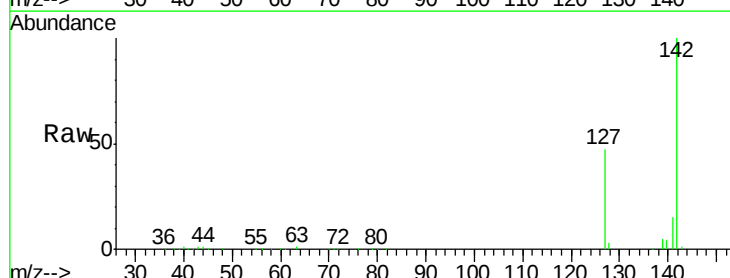
RT: 3.94 min Scan# 674

Delta R.T. -0.00 min

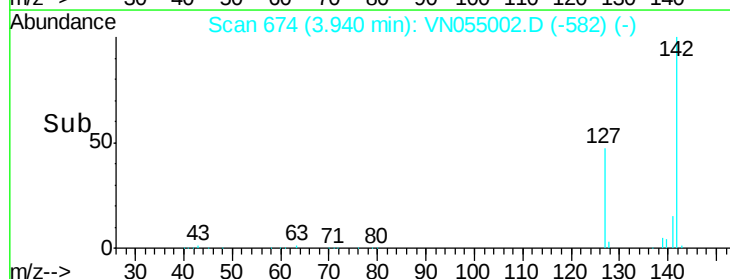
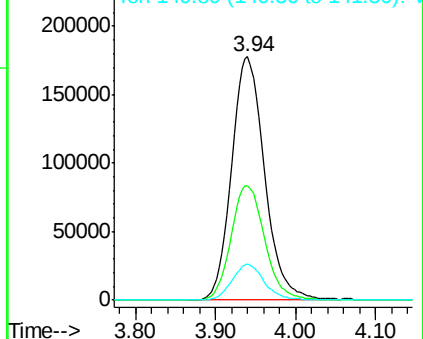
Lab File: VN055002.D

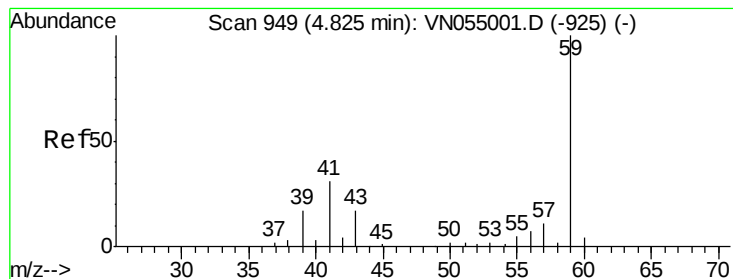
Acq: 12 Apr 2019 16:32

Tgt Ion:	142	Resp:	497069
Ion Ratio	Lower	Upper	
142	100		
127	47.9	37.9	56.9
141	14.6	11.8	17.8



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





#11

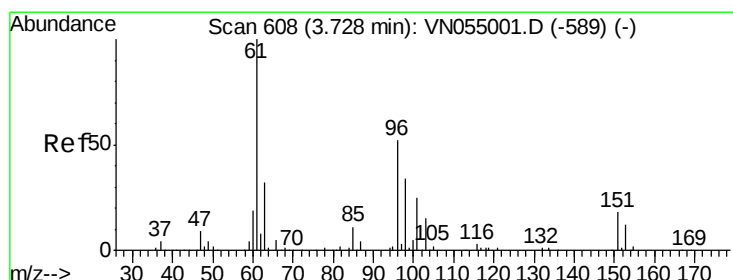
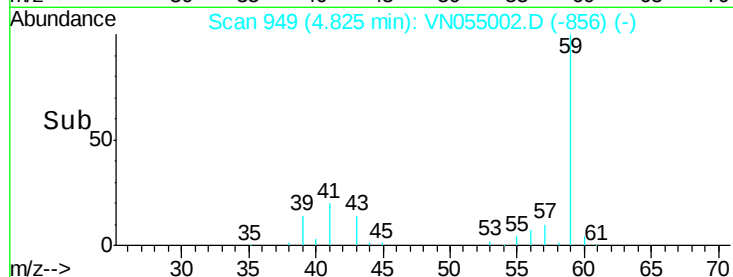
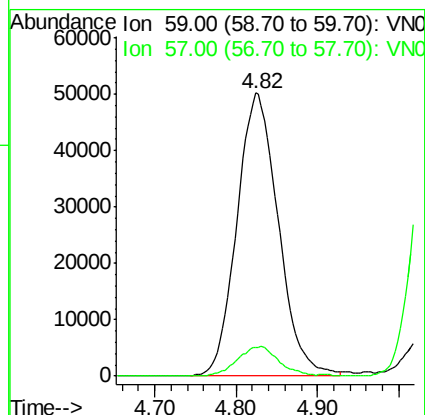
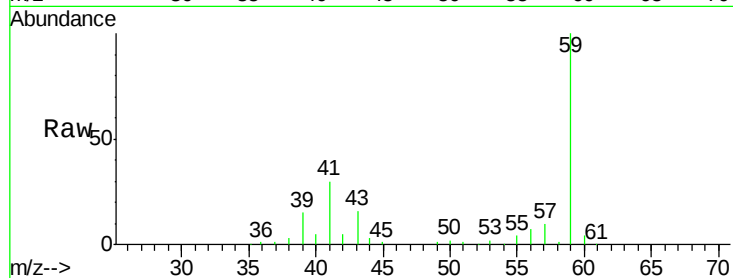
Tert butyl alcohol
 Concen: 580.455 ug/l
 RT: 4.82 min Scan# 949
 Delta R.T. -0.00 min
 Lab File: VN055002.D
 Acq: 12 Apr 2019 16:32

Instrument :
 MSVOA_N
 ClientSampleId :
 VSTDIC100

Tot Ion	Ratio	Lower	Upper
59	100		
57	10.5	8.3	12.5

Manual Integrations
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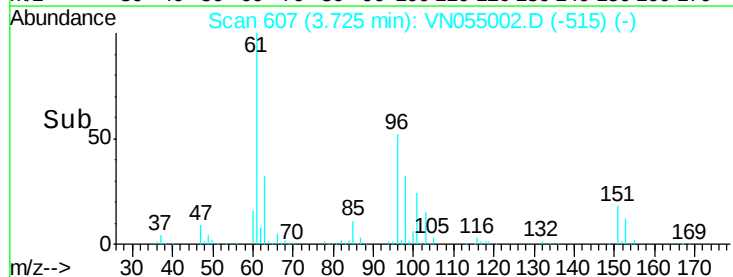
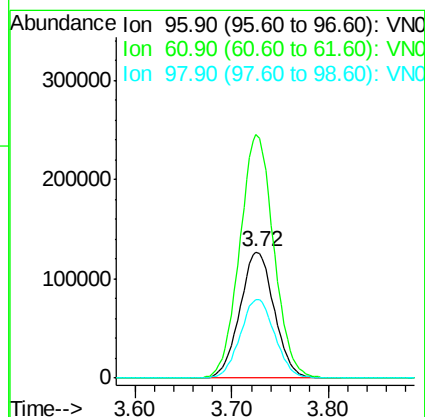
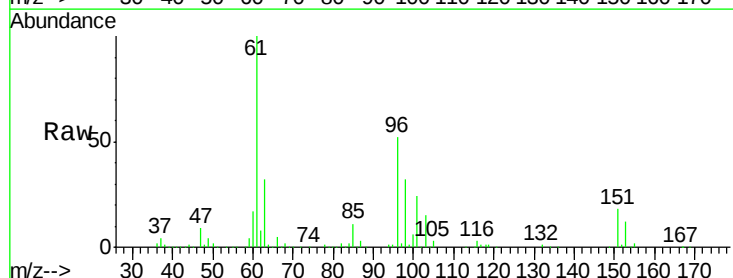
MMDadoda
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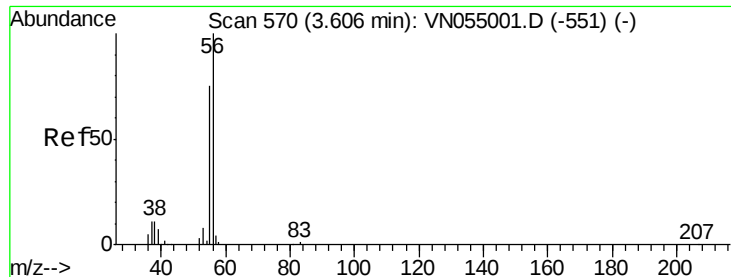


#12

1,1-Dichloroethene
 Concen: 83.587 ug/l
 RT: 3.72 min Scan# 607
 Delta R.T. -0.00 min
 Lab File: VN055002.D
 Acq: 12 Apr 2019 16:32

Tgt Ion	Ratio	Lower	Upper
96	100		
61	193.2	154.2	231.4
98	62.0	52.9	79.3





#13

Acrolein

Concen: 521.307 ug/l

RT: 3.61 min Scan# 570

Delta R.T. -0.00 min

Lab File: VN055002.D

Acq: 12 Apr 2019 16:32

Instrument :

MSVOA_N

ClientSampleId :

VSTDIC100

Tot Ion: 56 Resp: 207743

Ion Ratio Lower Upper

56 100

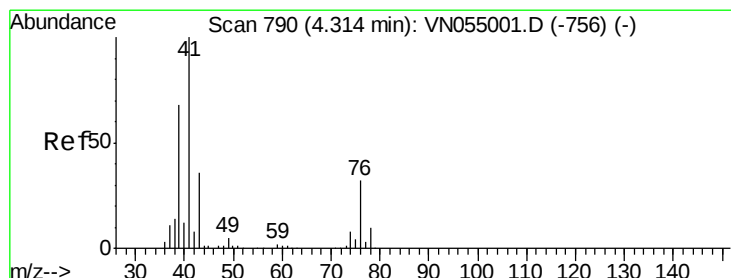
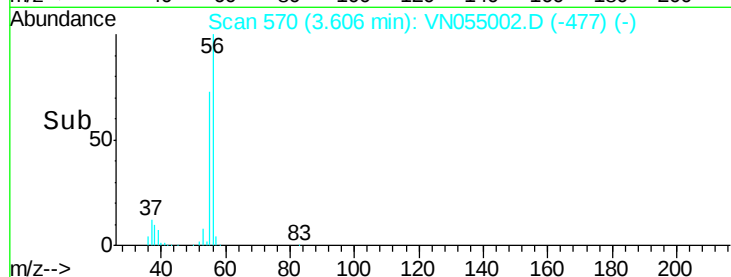
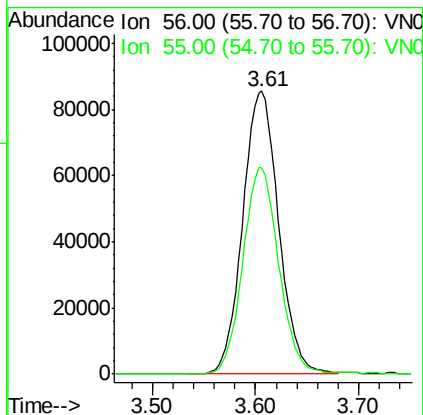
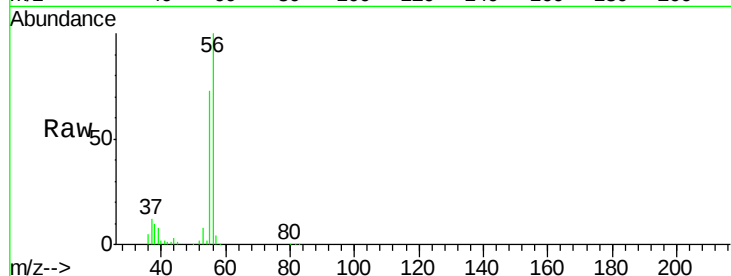
55 72.6 59.5 89.3

Manual Integrations

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#14

Allyl chloride

Concen: 98.898 ug/l

RT: 4.31 min Scan# 790

Delta R.T. -0.00 min

Lab File: VN055002.D

Acq: 12 Apr 2019 16:32

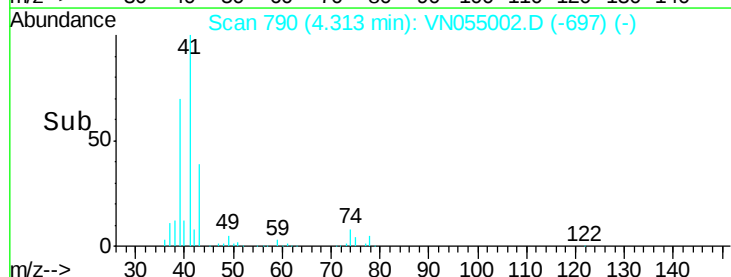
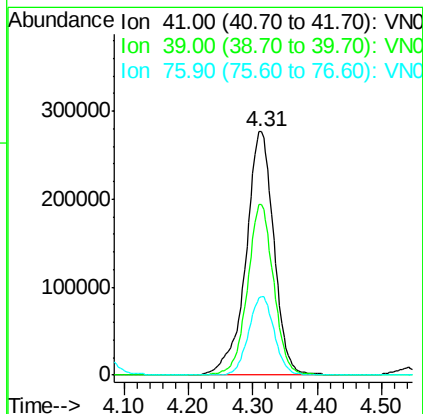
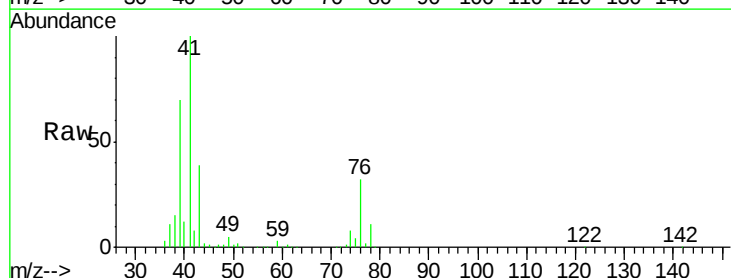
Tgt Ion: 41 Resp: 832902

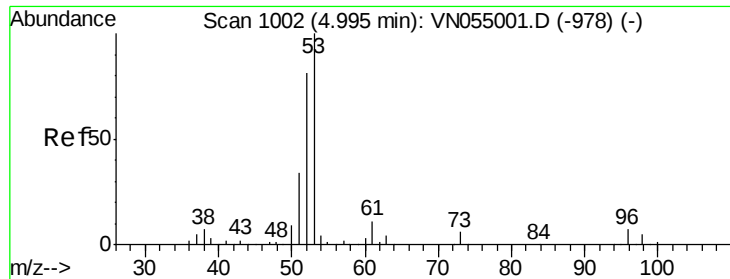
Ion Ratio Lower Upper

41 100

39 65.5 52.7 79.1

76 29.4 23.2 34.8





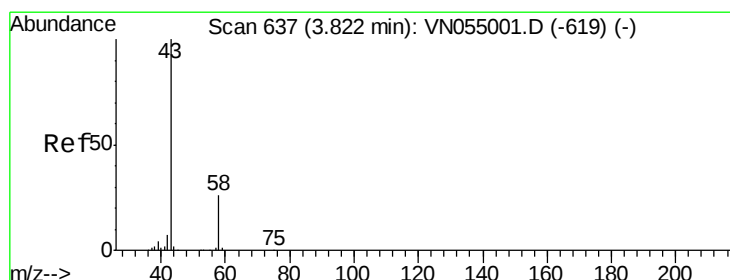
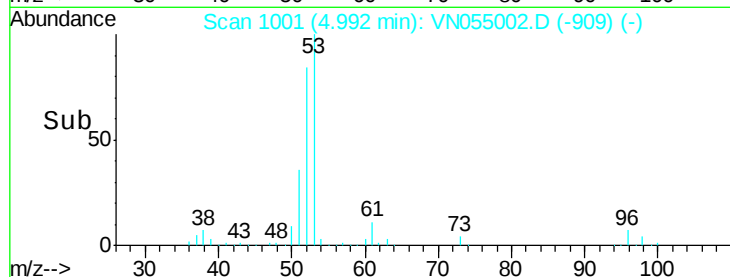
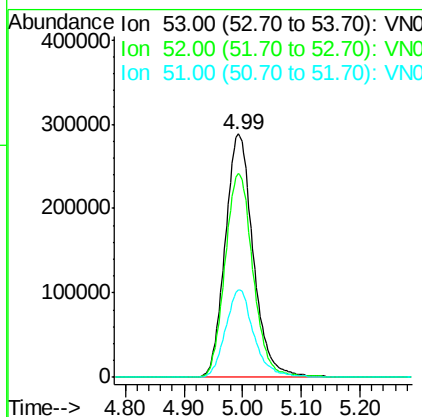
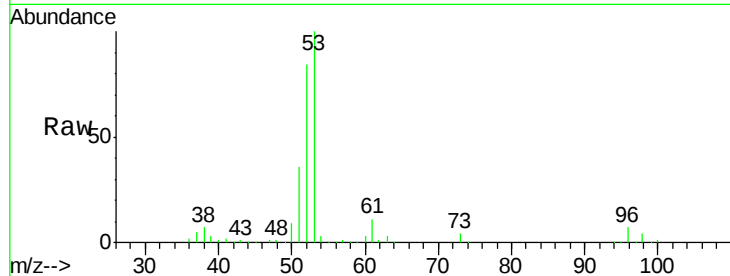
#15
 Acrylonitrile
 Concen: 533.264 ug/l
 RT: 4.99 min Scan# 1001
 Delta R.T. -0.00 min
 Lab File: VN055002.D
 Acq: 12 Apr 2019 16:32

Instrument :
 MSVOA_N
 ClientSampleId :
 VSTDIC100

Tot Ion	Ratio	Lower	Upper
53	100		
52	83.5	65.9	98.9
51	36.3	29.7	44.5

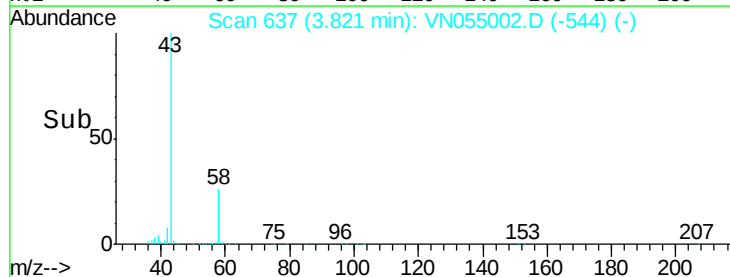
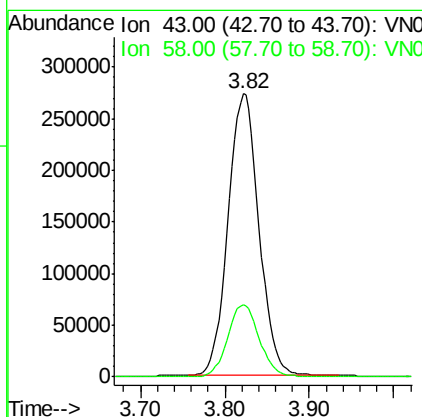
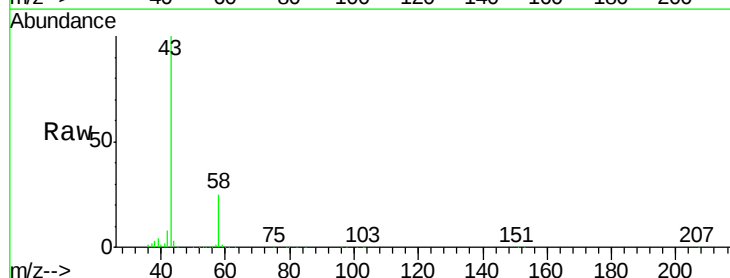
Manual Integrations
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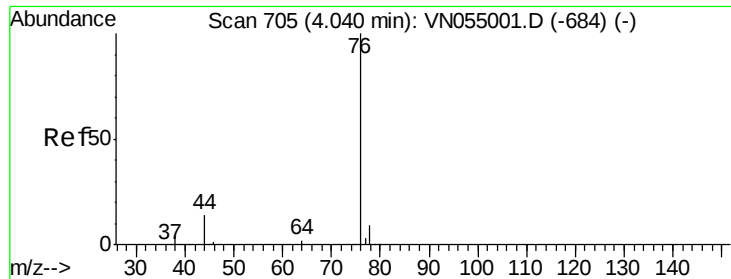
MMDadoda
 4/16/2019 1:58:14 PM



#16
 Acetone
 Concen: 431.200 ug/l
 RT: 3.82 min Scan# 637
 Delta R.T. -0.00 min
 Lab File: VN055002.D
 Acq: 12 Apr 2019 16:32

Tgt Ion	Ratio	Lower	Upper
43	100		
58	25.5	20.9	31.3





#17

Carbon Disulfide

Concen: 93.167 ug/l

RT: 4.04 min Scan# 704

Delta R.T. -0.00 min

Lab File: VN055002.D

Acq: 12 Apr 2019 16:32

Instrument :

MSVOA_N

ClientSampleId :

VSTDIC100

Tot Ion: 76 Resp: 1112140

Ion Ratio Lower Upper

76 100

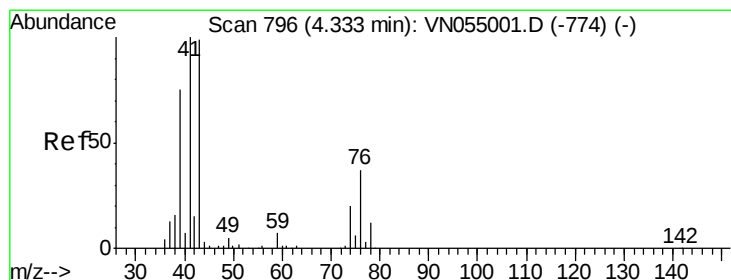
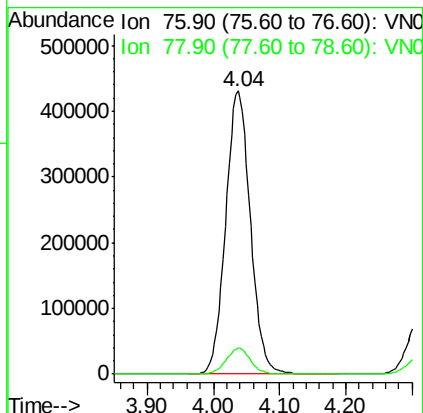
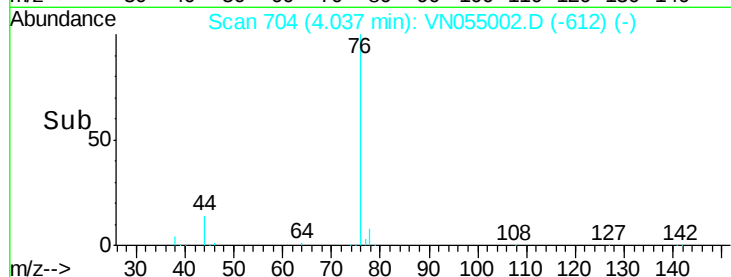
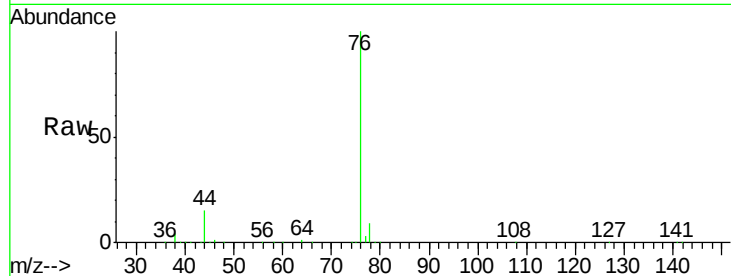
78 9.1 7.2 10.8

Manual Integrations

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#18

Methyl Acetate

Concen: 100.916 ug/l

RT: 4.33 min Scan# 795

Delta R.T. -0.00 min

Lab File: VN055002.D

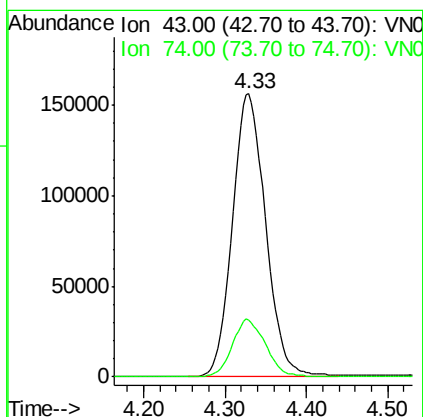
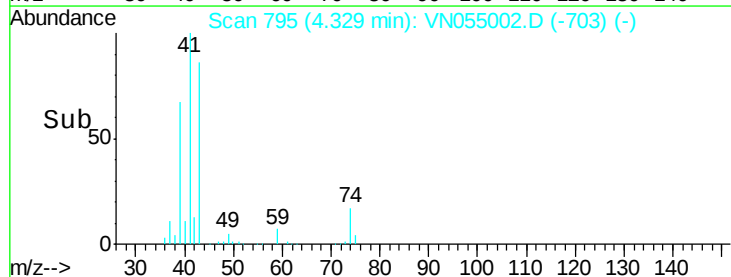
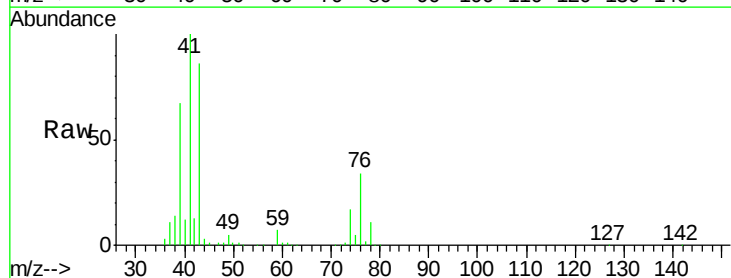
Acq: 12 Apr 2019 16:32

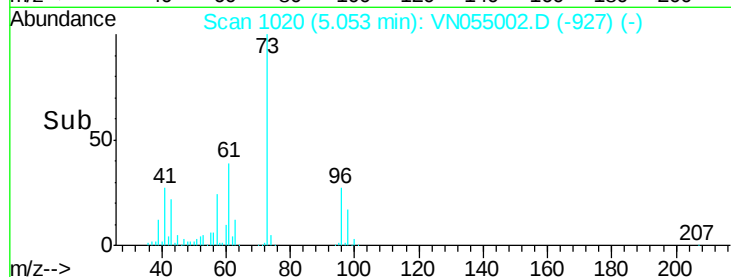
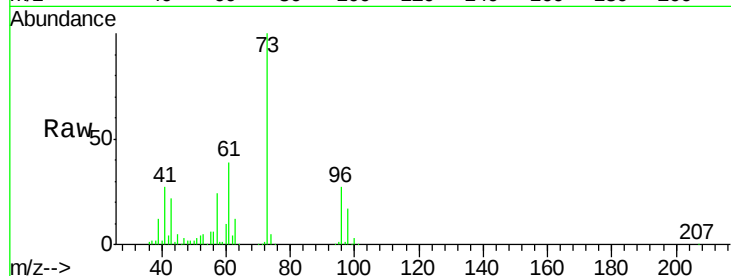
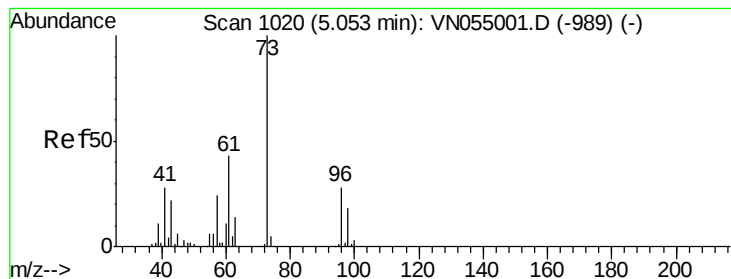
Tgt Ion: 43 Resp: 440275

Ion Ratio Lower Upper

43 100

74 20.5 16.1 24.1





#19

Methyl tert-butyl Ether

Concen: 99.164 ug/l

RT: 5.05 min Scan# 1020

Delta R.T. -0.00 min

Lab File: VN055002.D

Acq: 12 Apr 2019 16:32

Tot Ion: 73 Resp: 1230799

Ion Ratio Lower Upper

73 100

57 24.5 19.0 28.4

Instrument :

MSVOA_N

ClientSampleId :

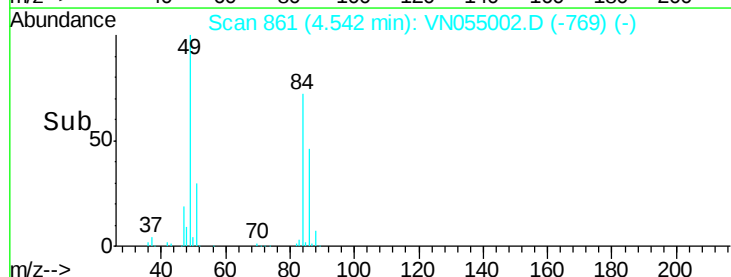
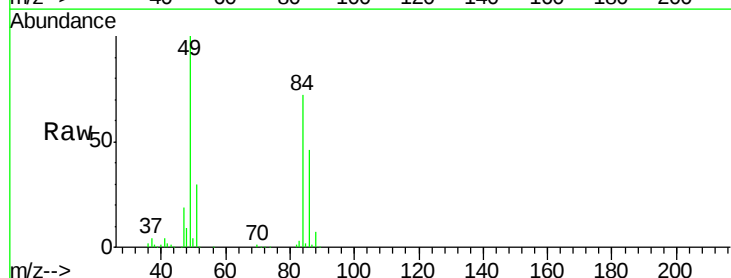
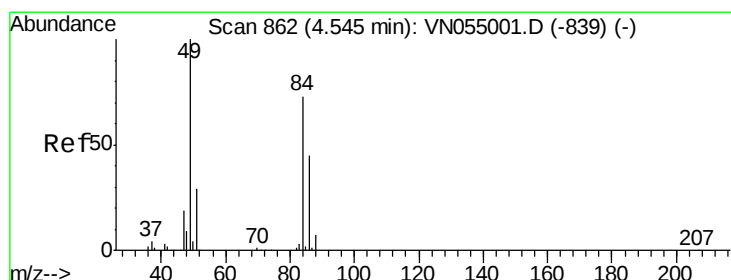
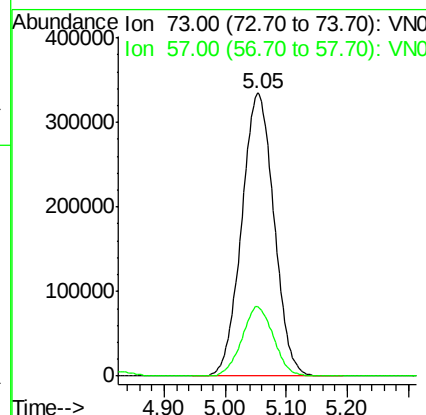
VSTDIC100

Manual Integrations

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#20

Methylene Chloride

Concen: 90.635 ug/l

RT: 4.54 min Scan# 861

Delta R.T. -0.00 min

Lab File: VN055002.D

Acq: 12 Apr 2019 16:32

Tgt Ion: 84 Resp: 481836

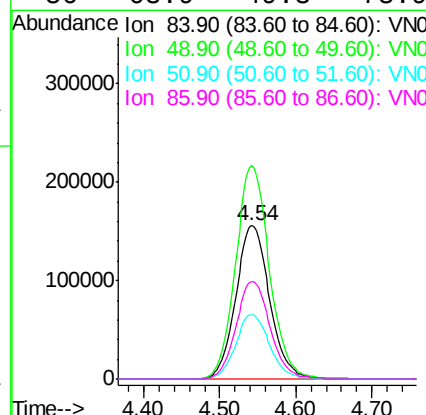
Ion Ratio Lower Upper

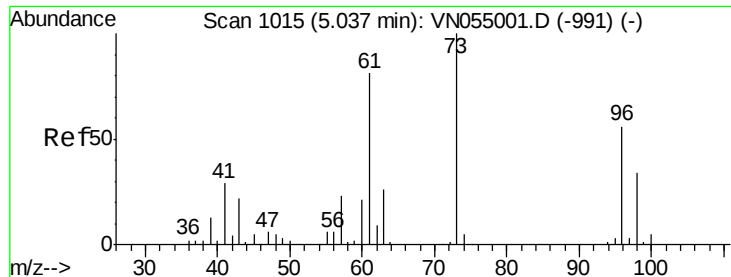
84 100

49 139.2 109.4 164.2

51 41.8 32.2 48.4

86 63.9 49.3 73.9





#21

trans-1,2-Dichloroethene

Concen: 93.444 ug/l

RT: 5.03 min Scan# 1014

Delta R.T. -0.00 min

Lab File: VN055002.D

Acq: 12 Apr 2019 16:32

Instrument :

MSVOA_N

ClientSampled :

VSTDIC100

Tot Ion: 96 Resp: 442372

Ion Ratio Lower Upper

96 100

61 152.9 114.9 172.3

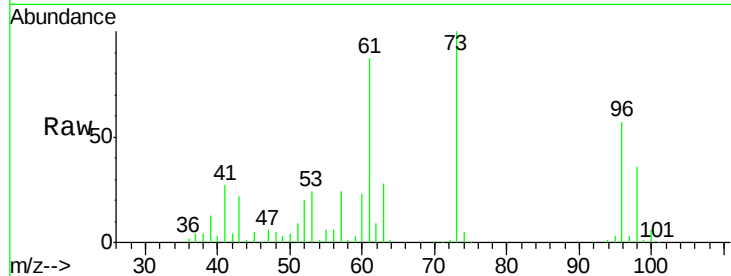
98 63.7 48.4 72.6

Manual Integrations

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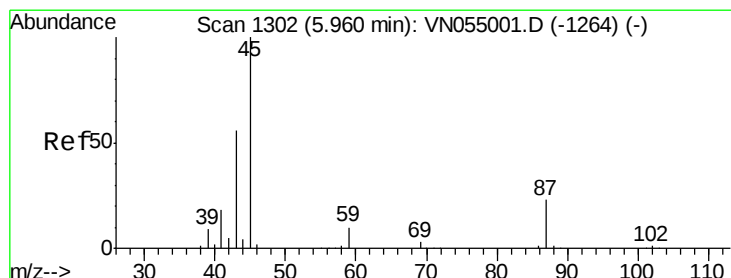
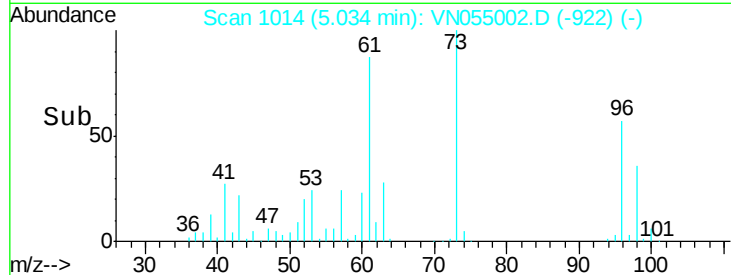
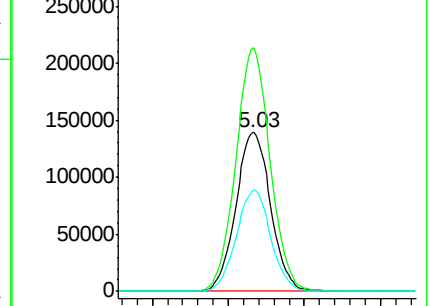
4/16/2019 1:58:14 PM



Abundance Ion 95.90 (95.60 to 96.60): VN055001.D (-991) (-)

Ion 60.90 (60.60 to 61.60): VN055001.D (-991) (-)

Ion 97.90 (97.60 to 98.60): VN055001.D (-991) (-)



#22

Diisopropyl ether

Concen: 98.009 ug/l

RT: 5.96 min Scan# 1302

Delta R.T. -0.00 min

Lab File: VN055002.D

Acq: 12 Apr 2019 16:32

Tgt Ion: 45 Resp: 1701497

Ion Ratio Lower Upper

45 100

43 54.5 44.8 67.2

87 23.2 18.9 28.3

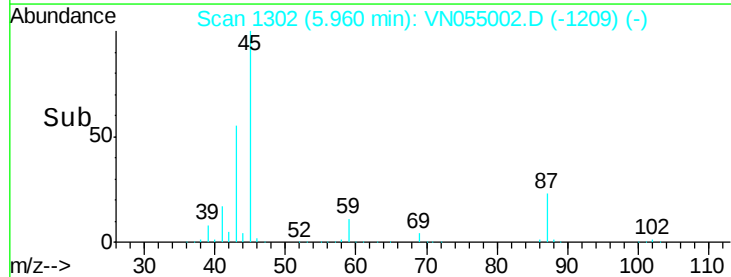
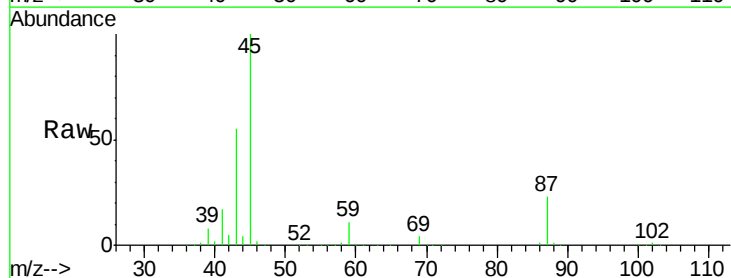
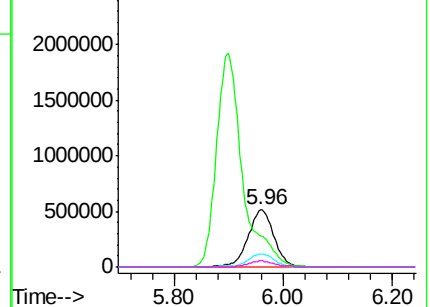
59 10.5 7.9 11.9

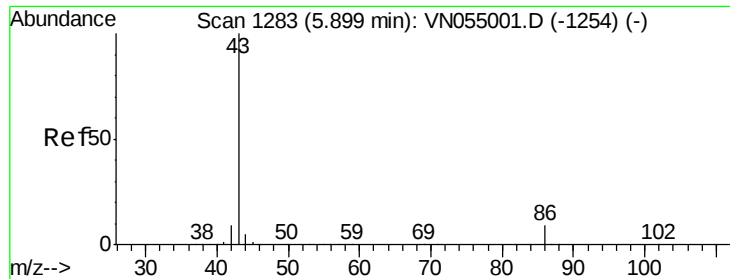
Abundance Ion 45.00 (44.70 to 45.70): VN055001.D (-1264) (-)

Ion 43.00 (42.70 to 43.70): VN055001.D (-1264) (-)

Ion 87.00 (86.70 to 87.70): VN055001.D (-1264) (-)

Ion 59.00 (58.70 to 59.70): VN055001.D (-1264) (-)





#23

Vinyl Acetate

Concen: 526.585 ug/l

RT: 5.90 min Scan# 1283

Delta R.T. -0.00 min

Lab File: VN055002.D

Acq: 12 Apr 2019 16:32

Instrument :

MSVOA_N

ClientSampleId :

VSTDIC100

Tot Ion: 43 Resp: 6368777

Ion Ratio Lower Upper

43 100

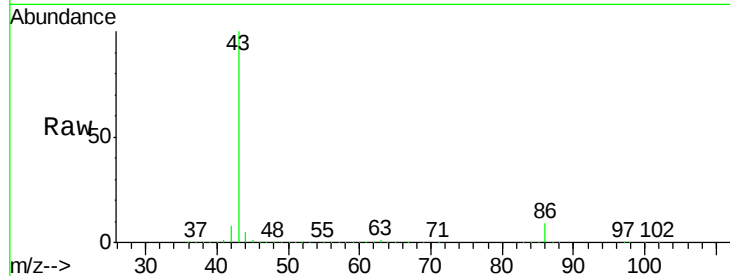
86 8.5 7.0 10.4

Manual Integrations

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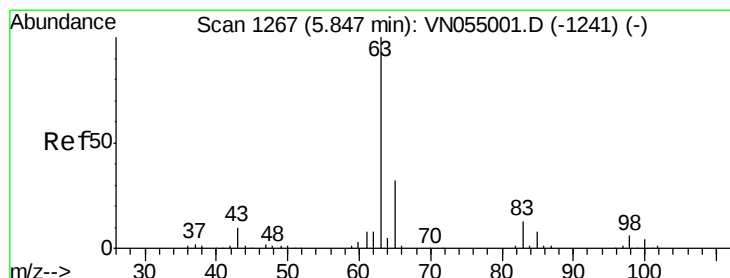
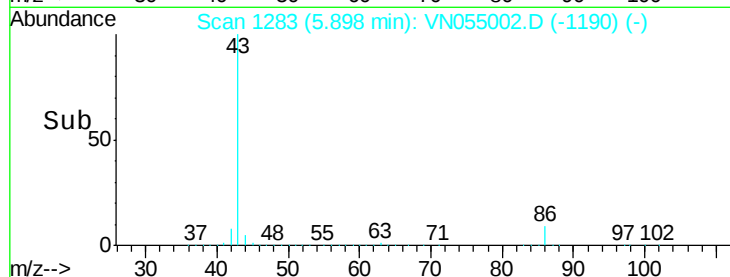
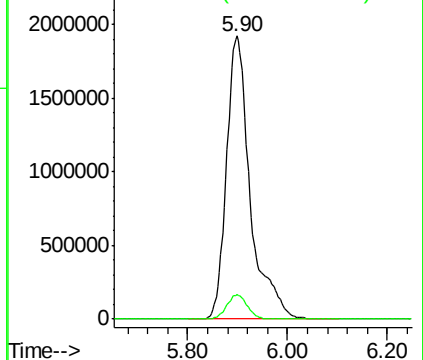
MMDadoda

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Abundance Ion 43.00 (42.70 to 43.70): VN0

Ion 86.00 (85.70 to 86.70): VN0



#24

1,1-Dichloroethane

Concen: 93.134 ug/l

RT: 5.84 min Scan# 1266

Delta R.T. -0.00 min

Lab File: VN055002.D

Acq: 12 Apr 2019 16:32

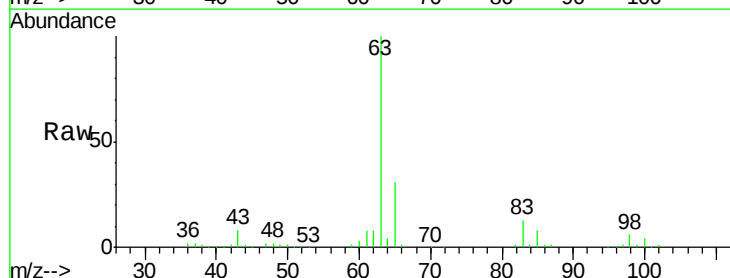
Tgt Ion: 63 Resp: 878920

Ion Ratio Lower Upper

63 100

98 6.0 2.8 8.4

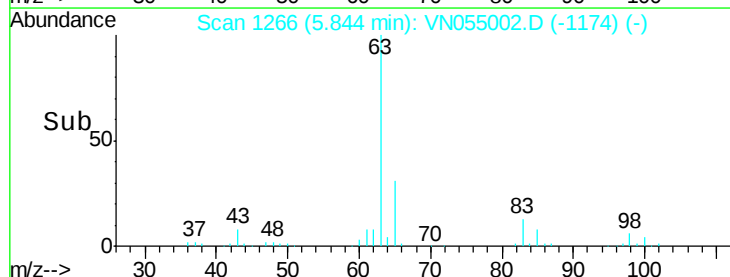
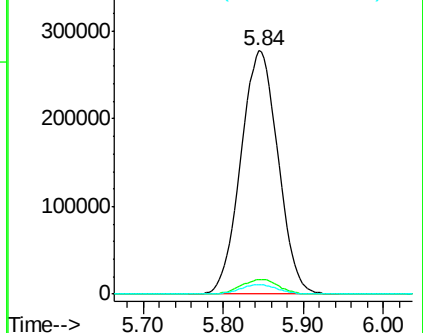
100 3.7 2.0 5.8

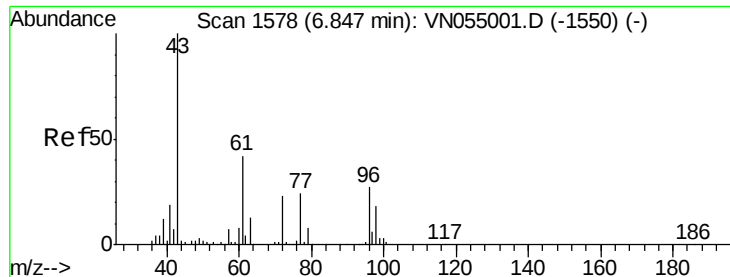


Abundance Ion 62.90 (62.60 to 63.60): VN0

Ion 97.90 (97.60 to 98.60): VN0

Ion 99.90 (99.60 to 100.60): VN0





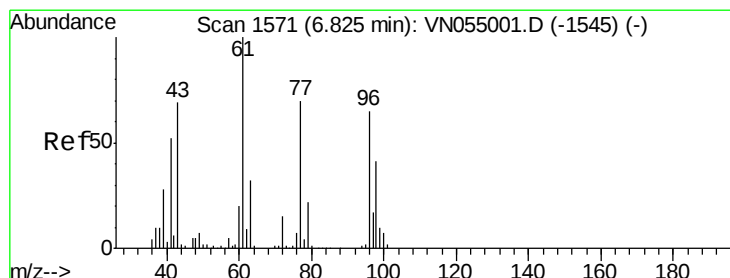
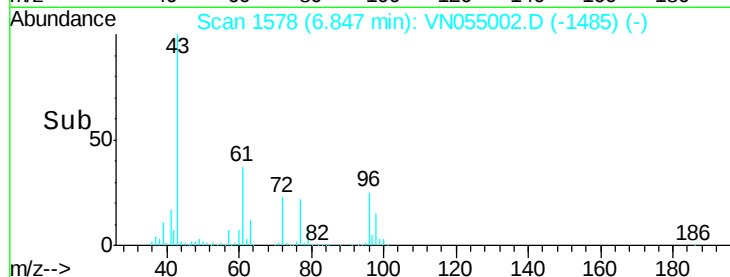
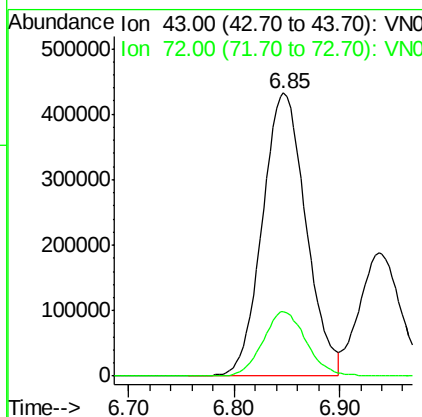
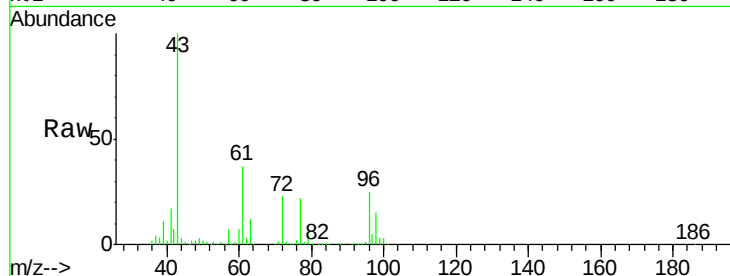
#25
2-Butanone
Concen: 569.836 ug/l
RT: 6.85 min Scan# 1578
Delta R.T. -0.00 min
Lab File: VN055002.D
Acq: 12 Apr 2019 16:32

Instrument :
MSVOA_N
ClientSampleId :
VSTDIC100

Tot Ion: 43 Resp: 1238878
Ion Ratio Lower Upper
43 100
72 22.8 18.1 27.1

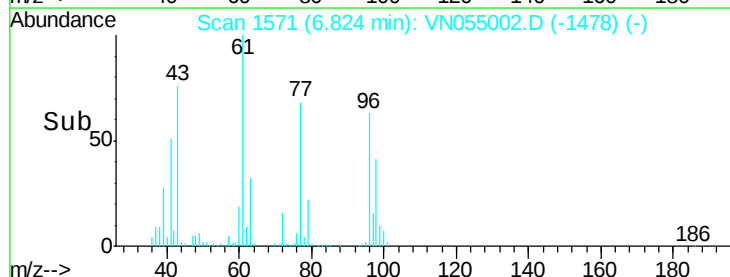
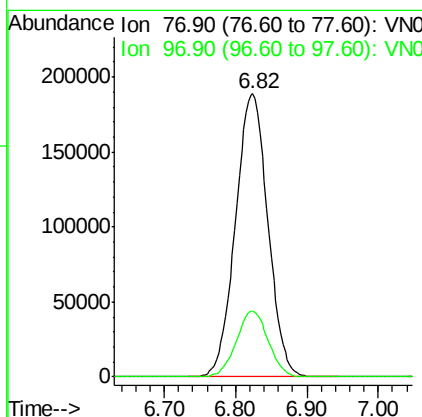
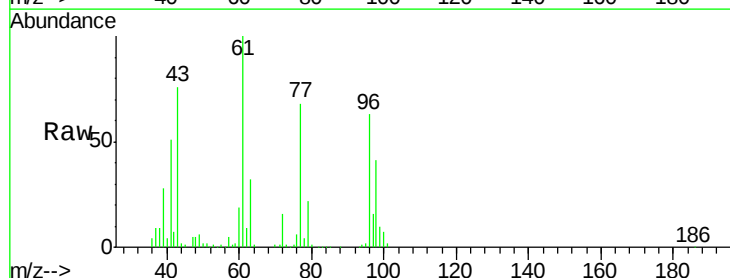
Manual Integrations
APPROVED

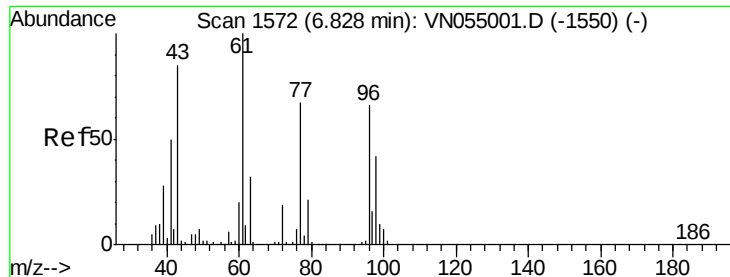
MMDadoda
4/16/2019 1:58:14 PM



#26
2,2-Dichloropropane
Concen: 90.794 ug/l
RT: 6.82 min Scan# 1571
Delta R.T. -0.00 min
Lab File: VN055002.D
Acq: 12 Apr 2019 16:32

Tgt Ion: 77 Resp: 596766
Ion Ratio Lower Upper
77 100
97 22.9 11.3 33.9





#27

cis-1,2-Dichloroethene

Concen: 95.279 ug/l

RT: 6.83 min Scan# 1572

Delta R.T. -0.00 min

Lab File: VN055002.D

Acq: 12 Apr 2019 16:32

Instrument :

MSVOA_N

ClientSampleId :

VSTDIC100

Tot Ion: 96 Resp: 513676

Ion Ratio Lower Upper

96 100

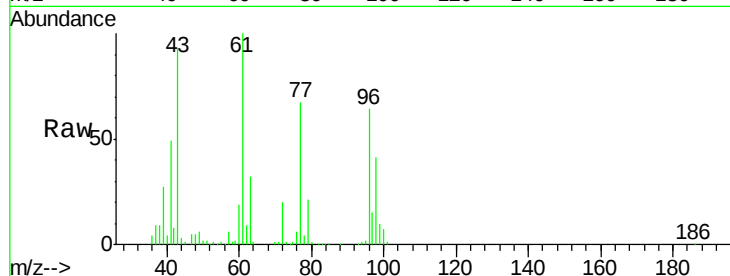
61 155.4 0.0 311.0

98 63.3 0.0 127.4

Manual Integrations
APPROVED

MMDadoda

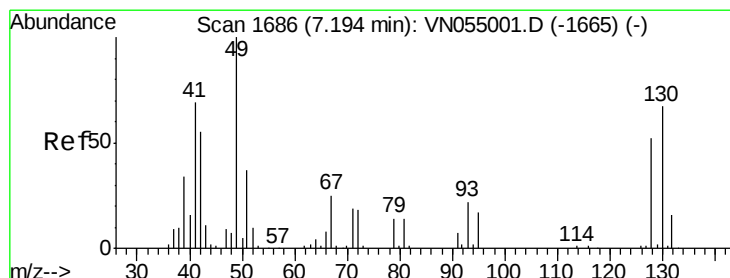
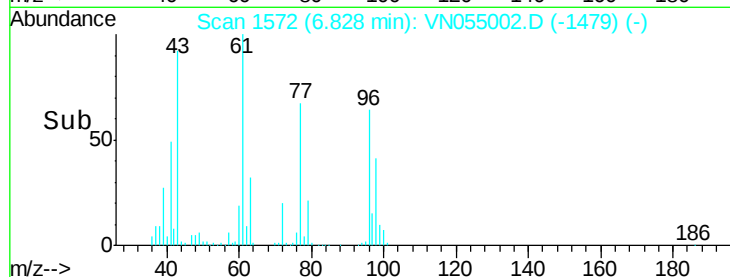
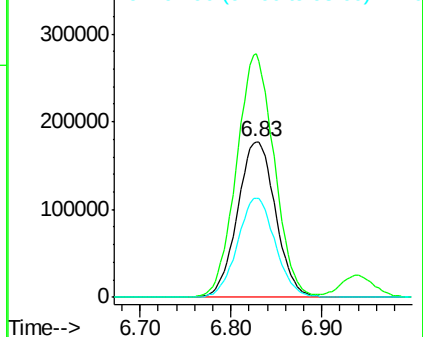
4/16/2019 1:58:14 PM



Abundance Ion 95.90 (95.60 to 96.60): VN055001.D (-1550) (-)

Ion 60.90 (60.60 to 61.60): VN055001.D (-1550) (-)

Ion 97.90 (97.60 to 98.60): VN055001.D (-1550) (-)



#28

Bromochloromethane

Concen: 93.632 ug/l

RT: 7.19 min Scan# 1686

Delta R.T. -0.00 min

Lab File: VN055002.D

Acq: 12 Apr 2019 16:32

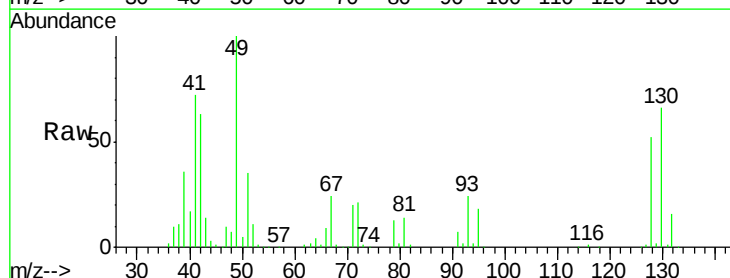
Tgt Ion: 49 Resp: 417239

Ion Ratio Lower Upper

49 100

129 1.8 0.0 2.0

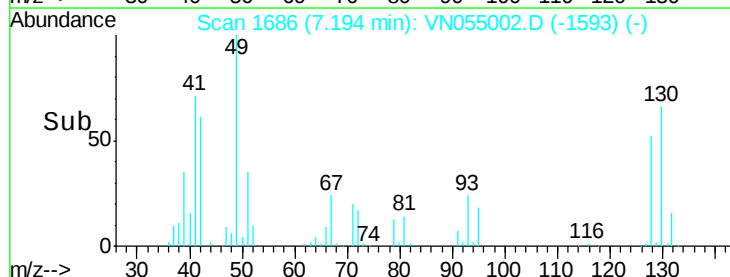
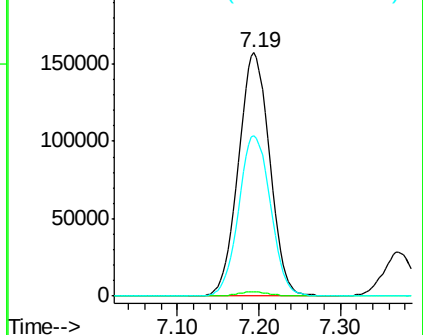
130 67.0 53.4 80.2

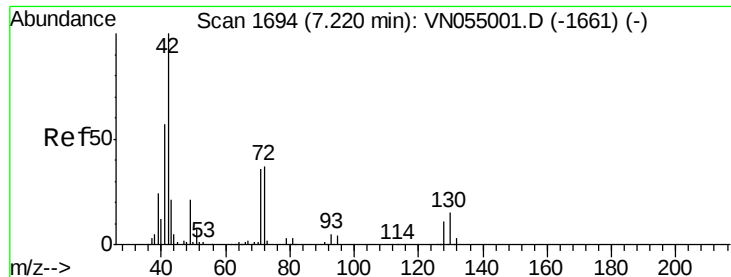


Abundance Ion 48.90 (48.60 to 49.60): VN055001.D (-1665) (-)

Ion 128.80 (128.50 to 129.50): VN055001.D (-1665) (-)

Ion 129.80 (129.50 to 130.50): VN055001.D (-1665) (-)





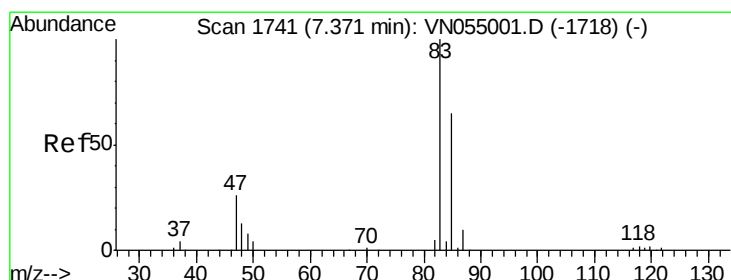
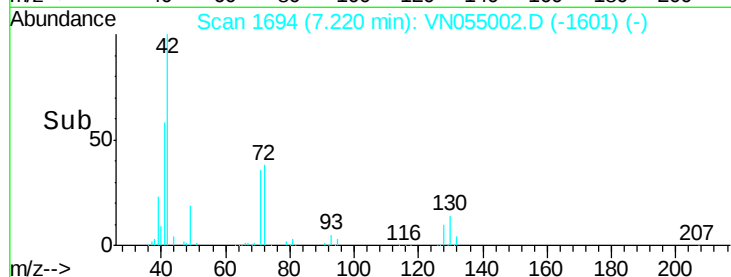
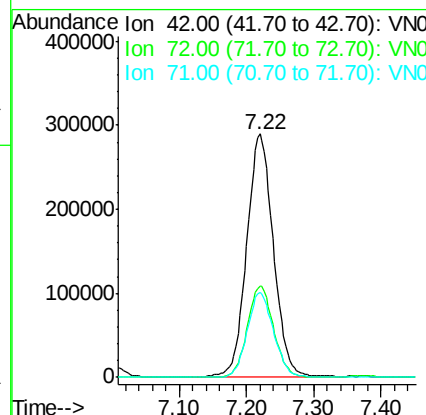
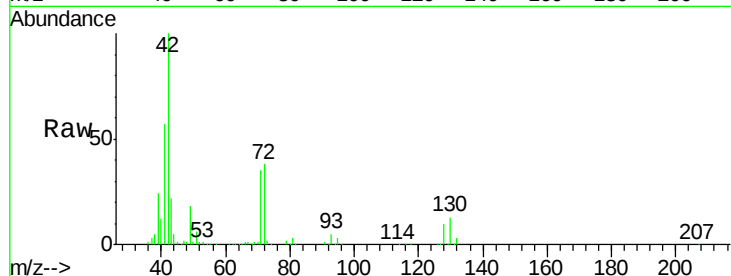
#29
Tetrahydrofuran
Concen: 553.564 ug/l
RT: 7.22 min Scan# 1694
Delta R.T. -0.00 min
Lab File: VN055002.D
Acq: 12 Apr 2019 16:32

Instrument :
MSVOA_N
ClientSampleId :
VSTDIC100

Tot Ion	Ratio	Lower	Upper
42	100		
72	37.0	29.4	44.0
71	34.6	27.8	41.6

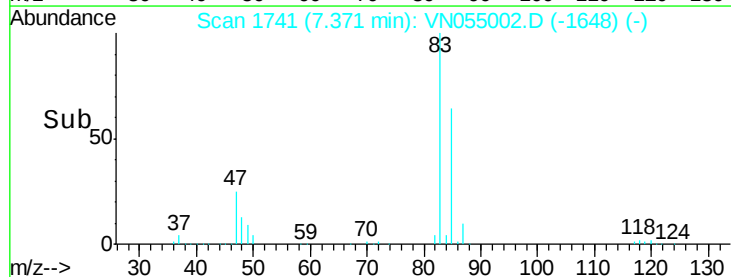
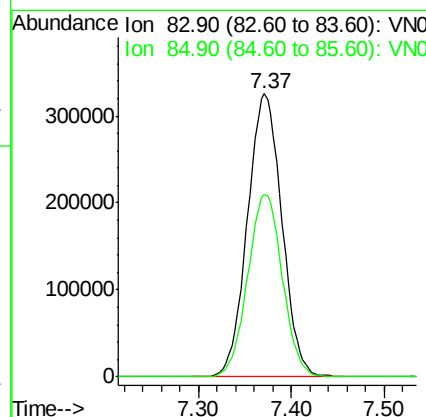
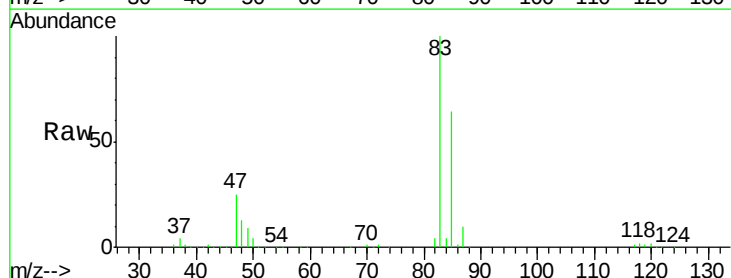
Manual Integrations
APPROVED

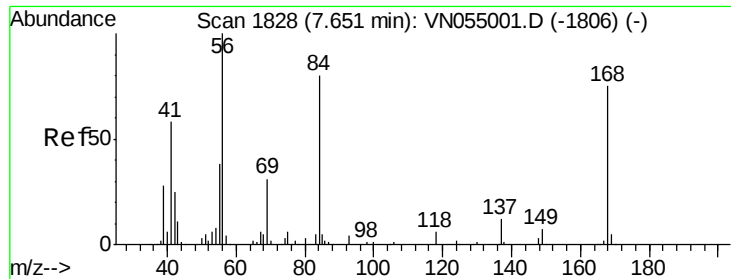
MMDadoda
4/16/2019 1:58:14 PM



#30
Chloroform
Concen: 93.880 ug/l
RT: 7.37 min Scan# 1741
Delta R.T. -0.00 min
Lab File: VN055002.D
Acq: 12 Apr 2019 16:32

Tgt Ion	Ratio	Lower	Upper
83	100		
85	64.4	51.8	77.6





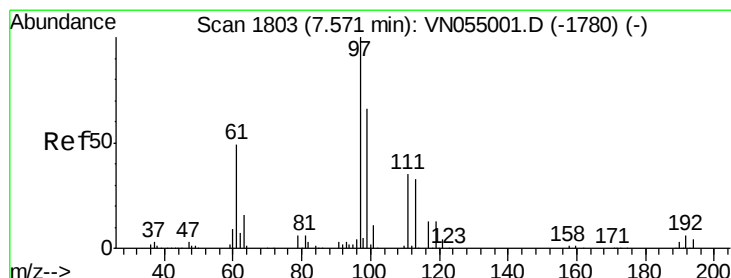
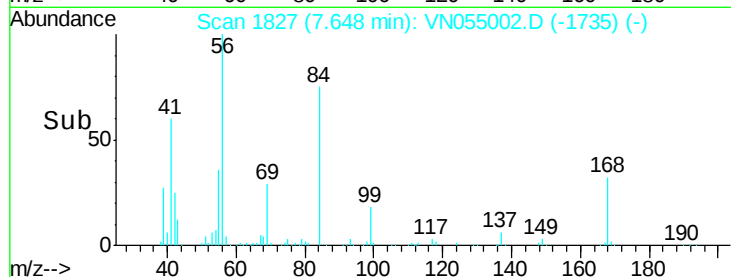
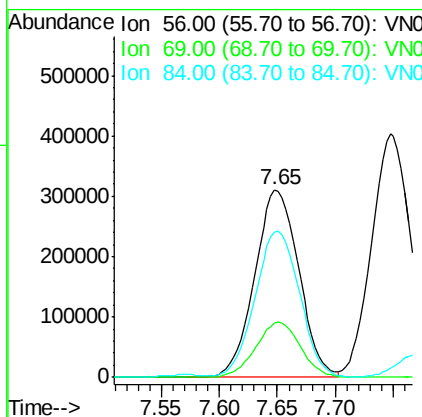
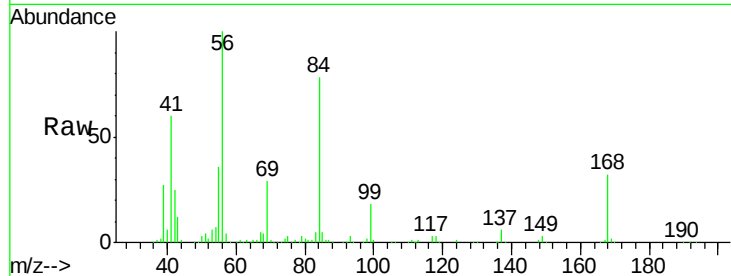
#31
Cyclohexane
Concen: 76.357 ug/l
RT: 7.65 min Scan# 1827
Delta R.T. -0.00 min
Lab File: VN055002.D
Acq: 12 Apr 2019 16:32

Instrument :
MSVOA_N
ClientSampleId :
VSTDIC100

Tot Ion	Ratio	Lower	Upper
56	100		
69	28.7	24.5	36.7
84	76.6	62.9	94.3

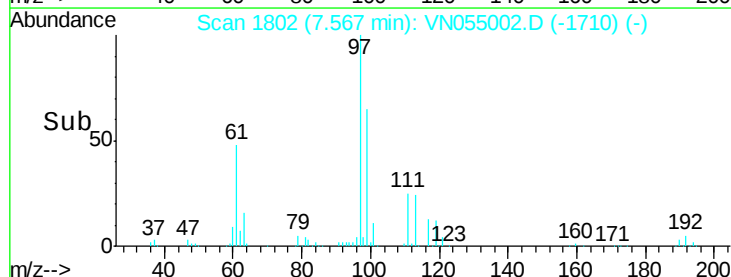
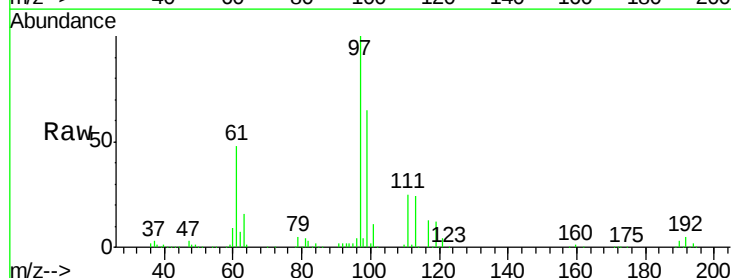
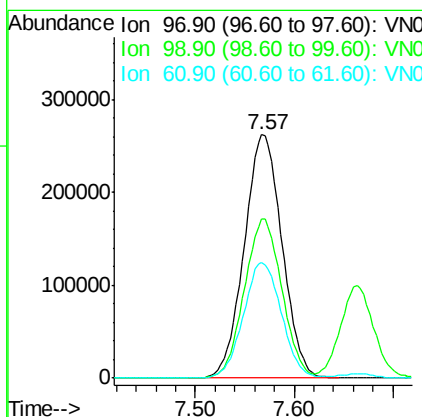
Manual Integrations
APPROVED

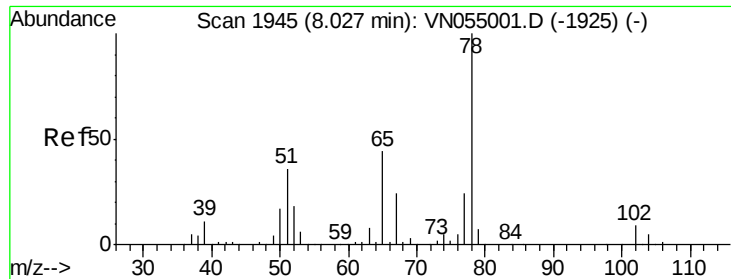
MMDadoda
4/16/2019 1:58:14 PM



#32
1,1,1-Trichloroethane
Concen: 92.268 ug/l
RT: 7.57 min Scan# 1802
Delta R.T. -0.00 min
Lab File: VN055002.D
Acq: 12 Apr 2019 16:32

Tgt Ion	Ratio	Lower	Upper
97	100		
99	64.7	51.6	77.4
61	47.9	38.3	57.5





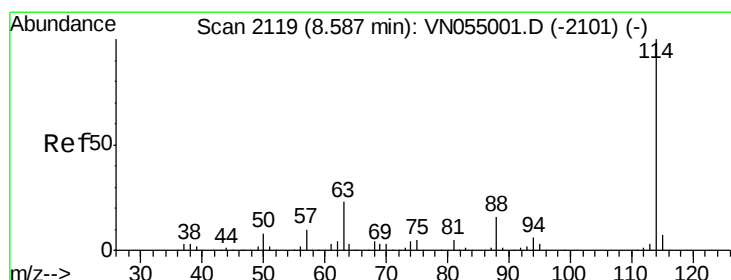
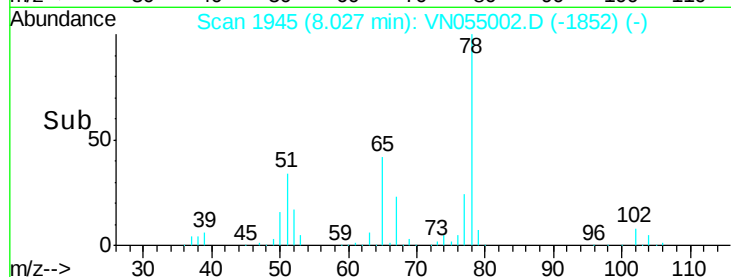
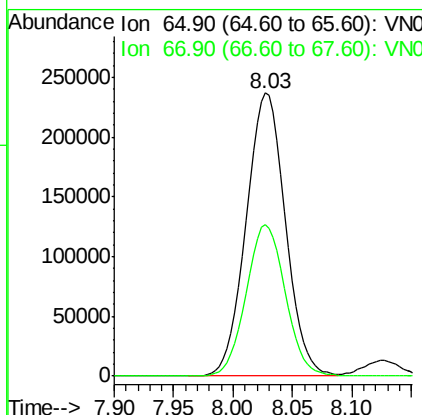
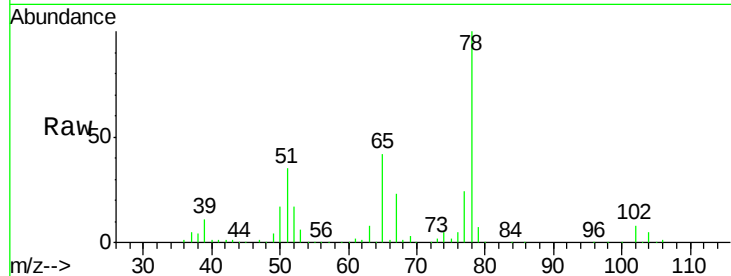
#33
 1,2-Dichloroethane-d4
 Concen: 94.665 ug/l
 RT: 8.03 min Scan# 1945
 Delta R.T. -0.00 min
 Lab File: VN055002.D
 Acq: 12 Apr 2019 16:32

Instrument :
 MSVOA_N
 ClientSampleId :
 VSTDIC100

Tot Ion	Ratio	Resp	Lower	Upper
65	100	542076		
67	53.3	0.0	106.4	

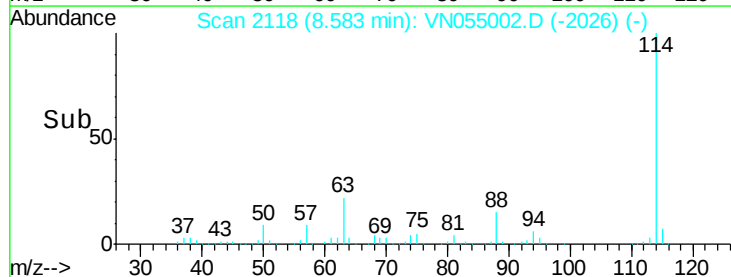
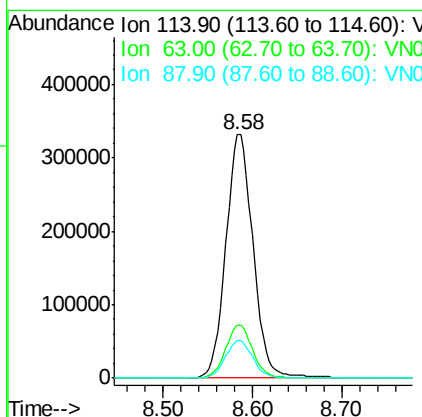
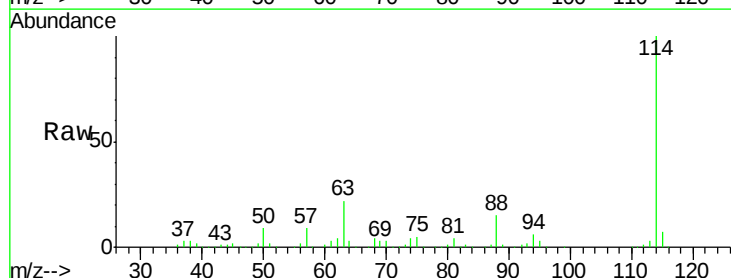
Manual Integrations
 APPROVED

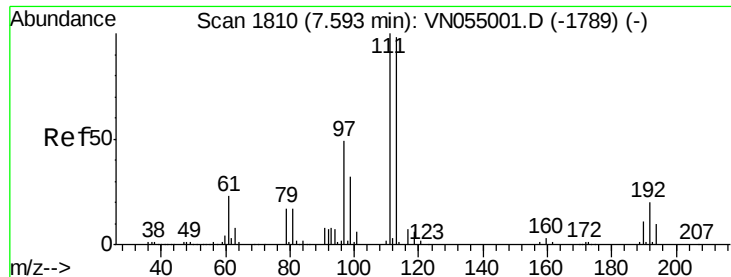
MMDadoda
 4/16/2019 1:58:14 PM



#34
 1,4-Difluorobenzene
 Concen: 50.000 ug/l
 RT: 8.58 min Scan# 2118
 Delta R.T. -0.00 min
 Lab File: VN055002.D
 Acq: 12 Apr 2019 16:32

Tgt Ion	Ratio	Resp	Lower	Upper
114	100	700387		
63	21.7	0.0	45.2	
88	15.4	0.0	31.8	





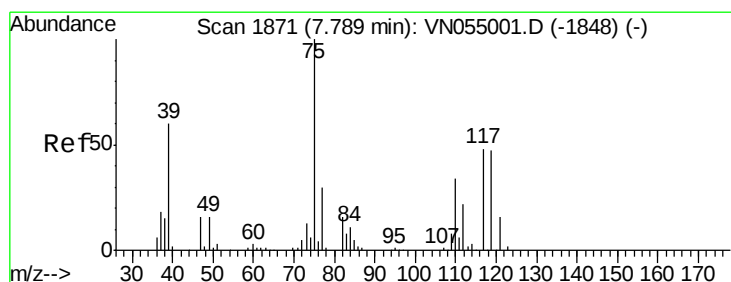
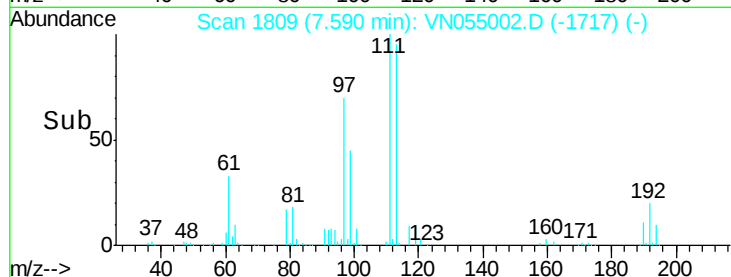
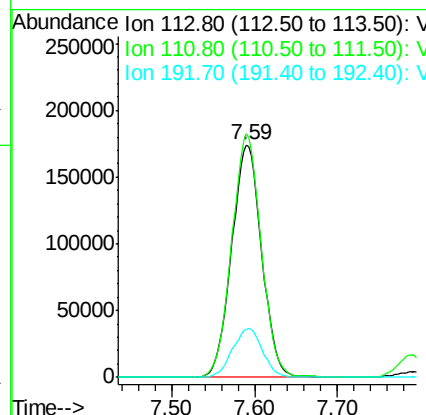
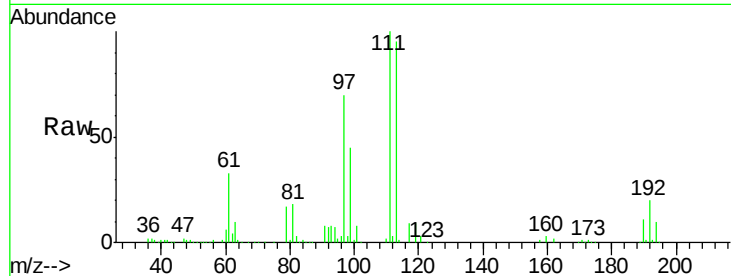
#35
Dibromofluoromethane
Concen: 96.181 ug/l
RT: 7.59 min Scan# 1809
Delta R.T. -0.00 min
Lab File: VN055002.D
Acq: 12 Apr 2019 16:32

Instrument :
MSVOA_N
ClientSampleId :
VSTDIC100

Tot Ion	Ratio	Resp	Lower	Upper
113	100			
111	102.9	82.1	123.1	
192	21.1	16.5	24.7	

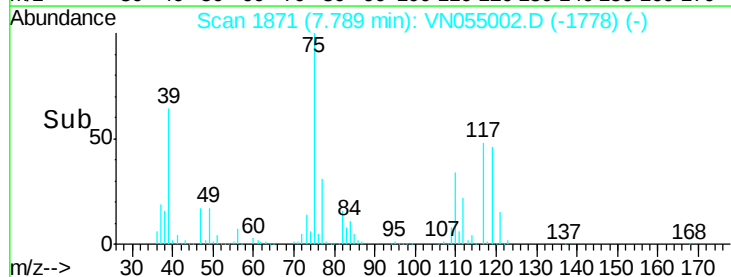
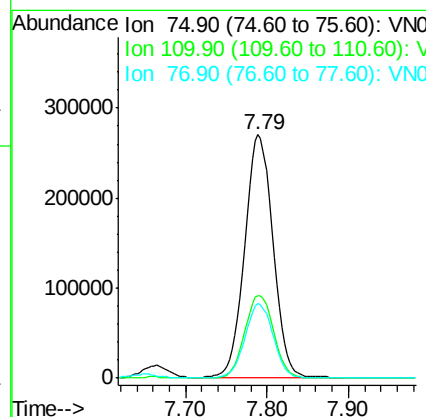
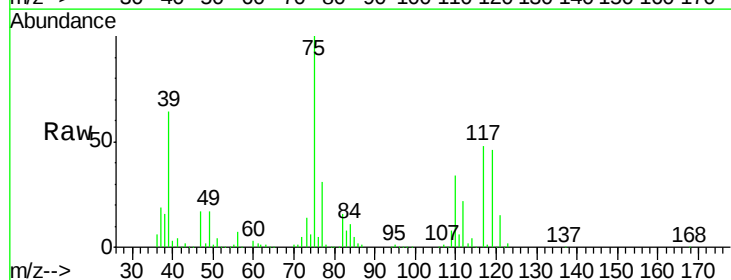
Manual Integrations
APPROVED

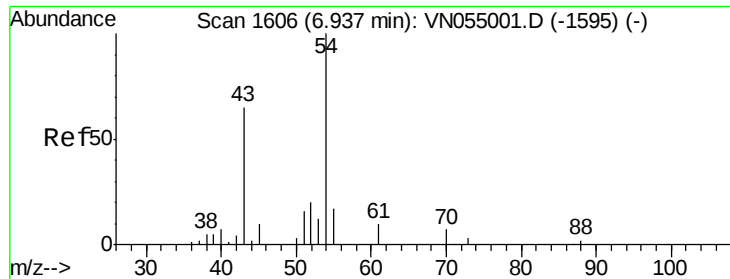
MMDadoda
4/16/2019 1:58:14 PM



#36
1,1-Dichloropropene
Concen: 94.439 ug/l
RT: 7.79 min Scan# 1871
Delta R.T. -0.00 min
Lab File: VN055002.D
Acq: 12 Apr 2019 16:32

Tgt Ion	Ratio	Resp	Lower	Upper
75	100			
110	34.8	17.5	52.5	
77	30.8	24.9	37.3	





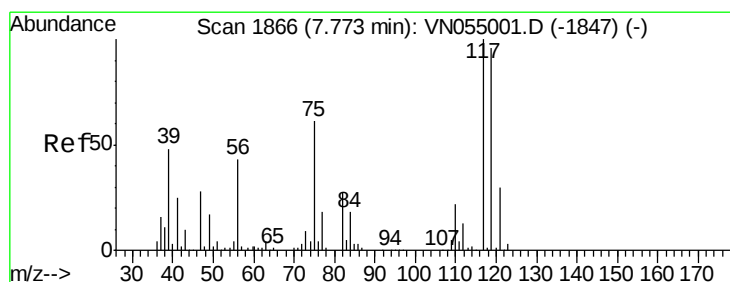
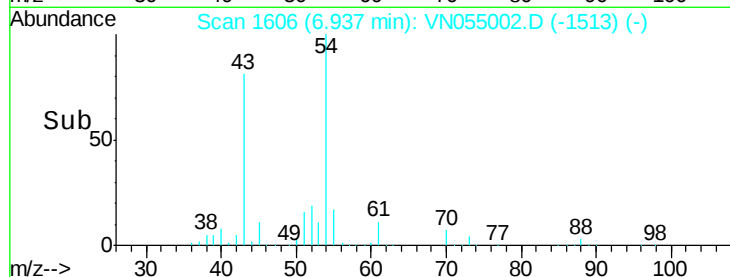
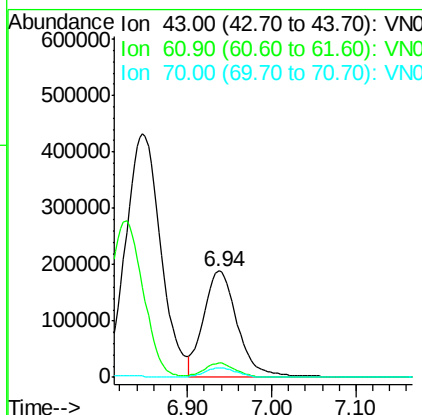
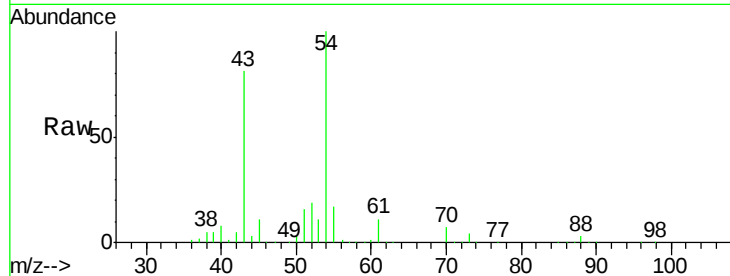
#37
Ethyl Acetate
Concen: 108.434 ug/l
RT: 6.94 min Scan# 1606
Delta R.T. -0.00 min
Lab File: VN055002.D
Acq: 12 Apr 2019 16:32

Instrument :
MSVOA_N
ClientSampled :
VSTDIC100

Tot Ion	Ratio	Lower	Upper
43	100		
61	12.5	10.0	15.0
70	8.8	7.1	10.7

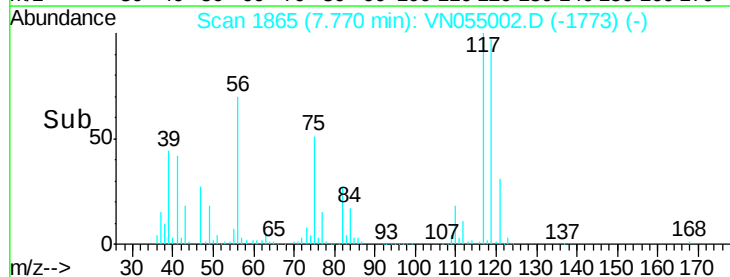
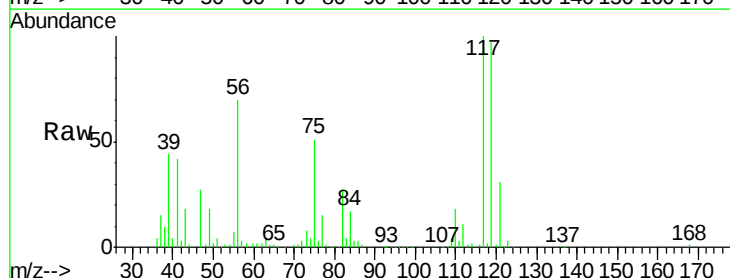
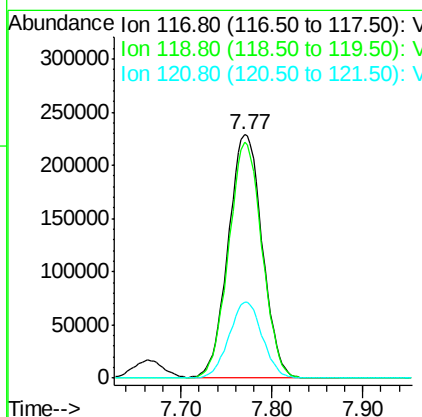
Manual Integrations
APPROVED

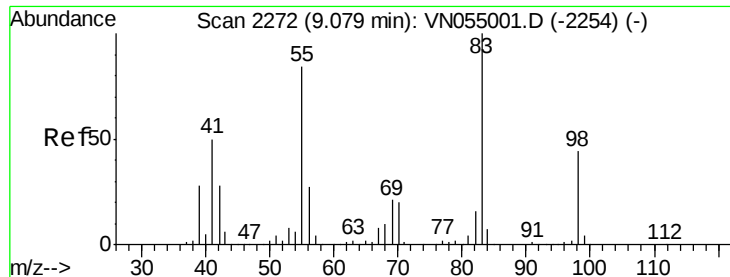
MMDadoda
4/16/2019 1:58:14 PM



#38
Carbon Tetrachloride
Concen: 90.290 ug/l
RT: 7.77 min Scan# 1865
Delta R.T. -0.00 min
Lab File: VN055002.D
Acq: 12 Apr 2019 16:32

Tgt Ion	Ratio	Lower	Upper
117	100		
119	96.7	76.3	114.5
121	31.3	23.9	35.9





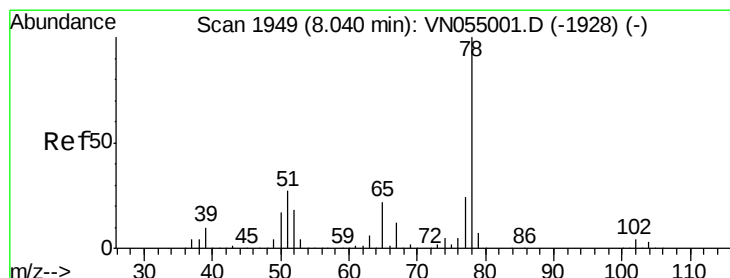
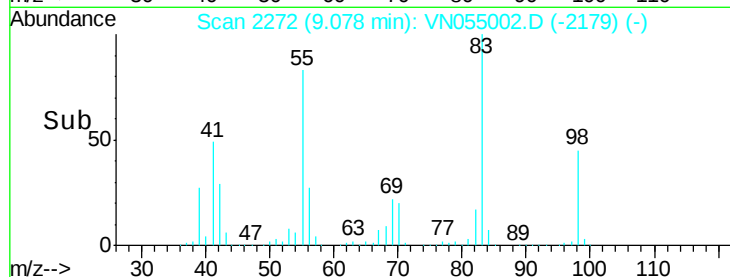
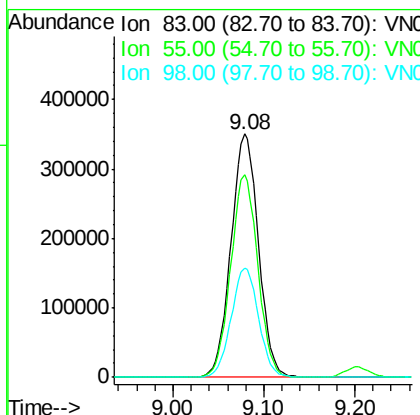
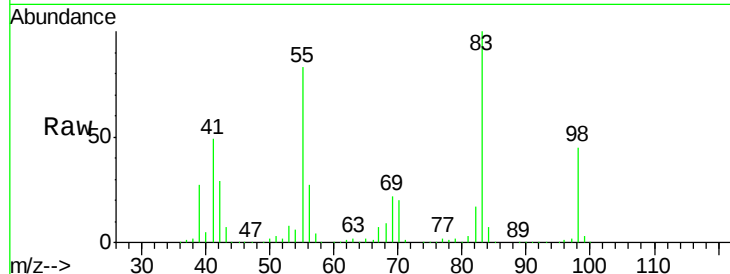
#39
Methvlcvclohexane
Concen: 97.418 ug/l
RT: 9.08 min Scan# 2272
Delta R.T. -0.00 min
Lab File: VN055002.D
Acq: 12 Apr 2019 16:32

Instrument :
MSVOA_N
ClientSampleId :
VSTDIC100

Tot Ion	Ratio	Lower	Upper
83	100		
55	83.3	67.0	100.4
98	44.9	35.6	53.4

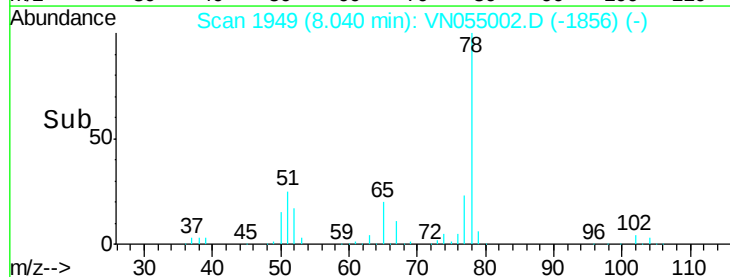
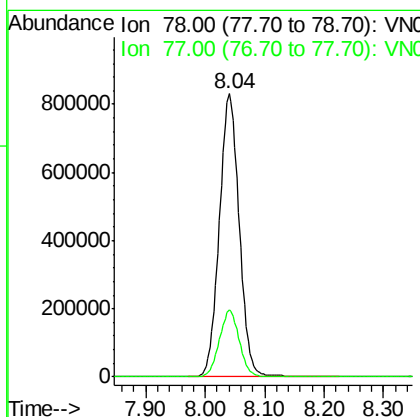
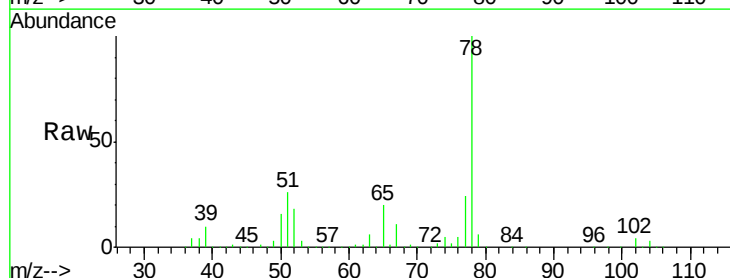
Manual Integrations
APPROVED

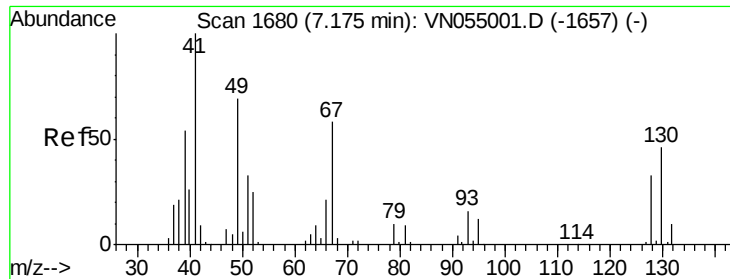
MMDadoda
4/16/2019 1:58:14 PM



#40
Benzene
Concen: 97.044 ug/l
RT: 8.04 min Scan# 1949
Delta R.T. -0.00 min
Lab File: VN055002.D
Acq: 12 Apr 2019 16:32

Tgt Ion	Ratio	Lower	Upper
78	100		
77	23.5	18.8	28.2





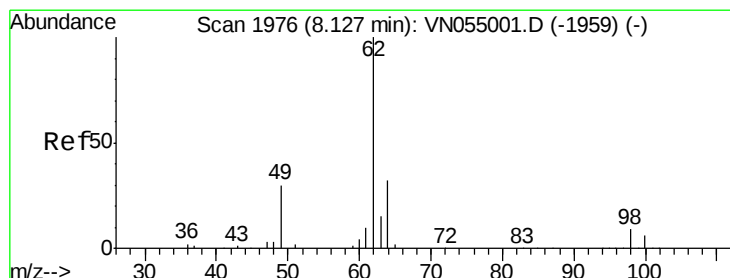
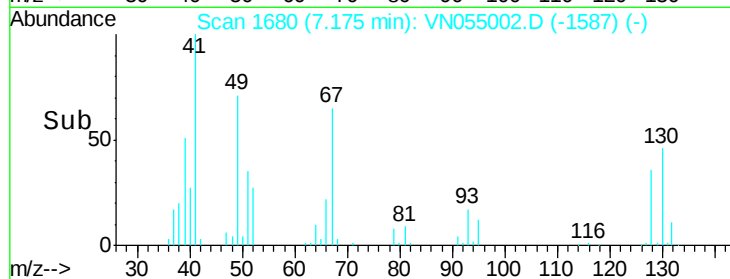
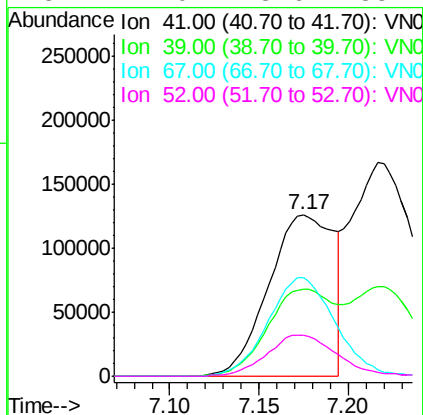
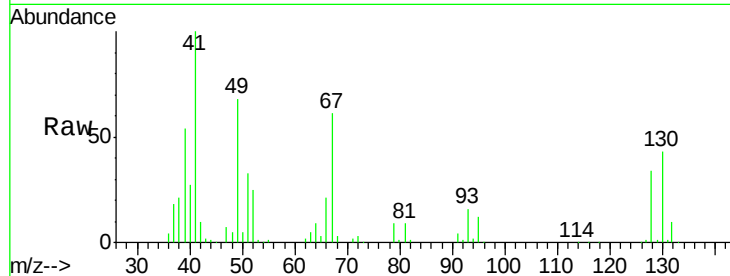
#41
Methacrylonitrile
Concen: 116.827 ug/l
RT: 7.17 min Scan# 1680
Delta R.T. -0.00 min
Lab File: VN055002.D
Acq: 12 Apr 2019 16:32

Instrument :
MSVOA_N
ClientSampled :
VSTDIC100

Tot Ion	41	Resp	320205
Ion Ratio	Lower	Upper	
41	100		
39	53.8	45.6	68.4
67	63.8	57.0	85.6
52	27.0	23.6	35.4

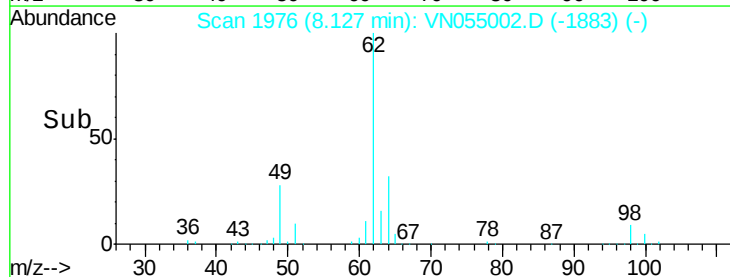
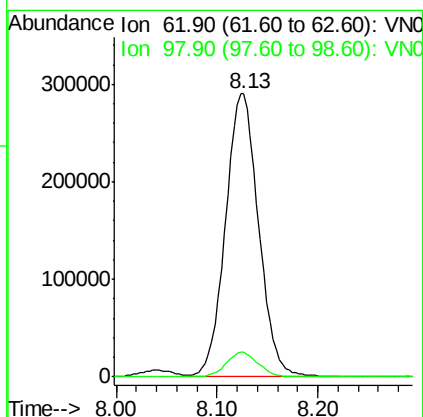
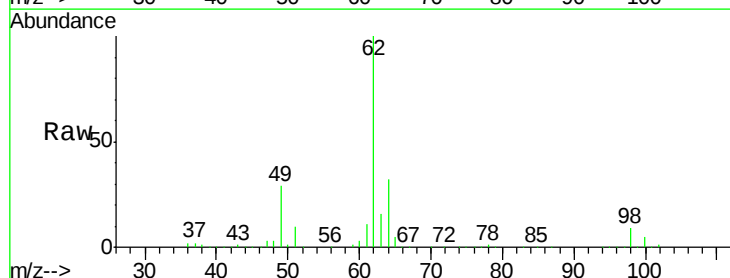
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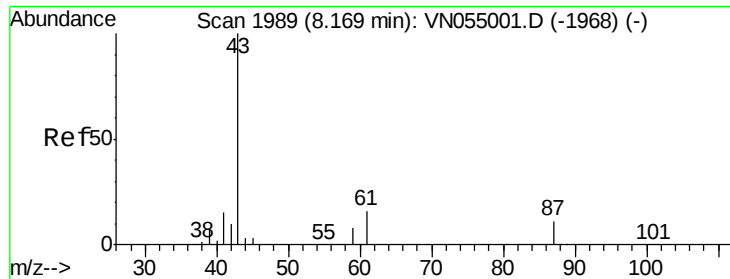
MMDadoda
4/16/2019 1:58:14 PM



#42
1,2-Dichloroethane
Concen: 94.723 ug/l
RT: 8.13 min Scan# 1976
Delta R.T. -0.00 min
Lab File: VN055002.D
Acq: 12 Apr 2019 16:32

Tgt Ion	62	Resp	660375
Ion Ratio	Lower	Upper	
62	100		
98	8.4	0.0	17.4





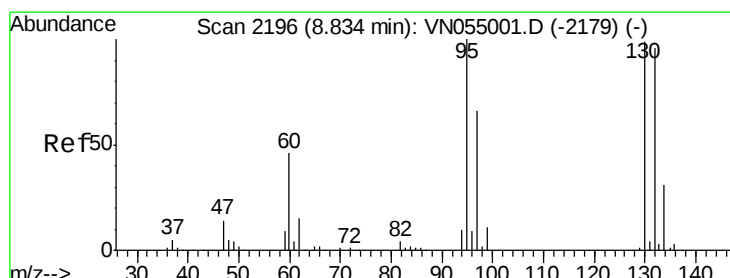
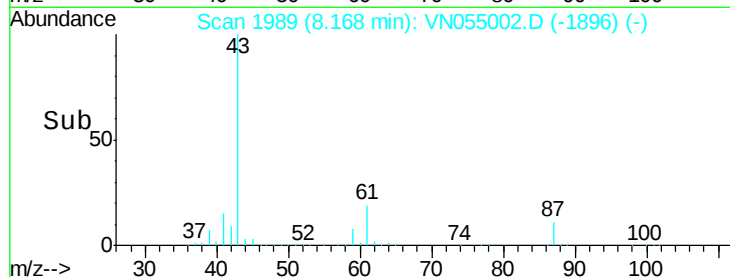
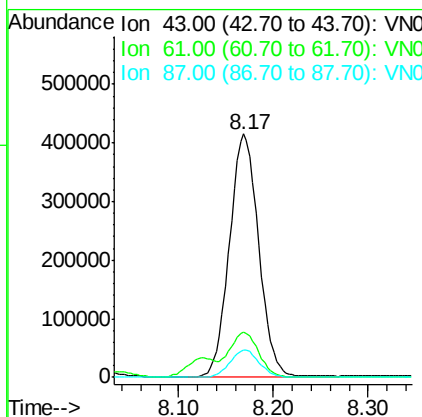
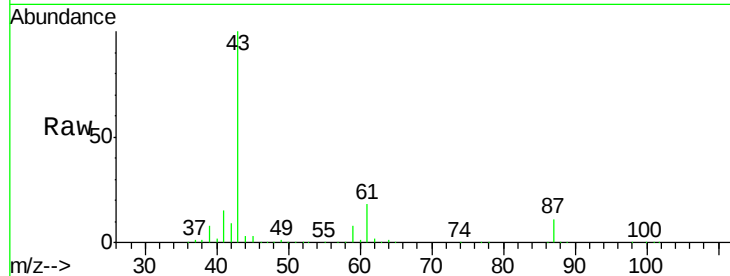
#43
Isopropyl Acetate
Concen: 110.142 ug/l
RT: 8.17 min Scan# 1989
Delta R.T. -0.00 min
Lab File: VN055002.D
Acq: 12 Apr 2019 16:32

Instrument :
MSVOA_N
ClientSampleId :
VSTDIC100

Tot Ion	Ratio	Lower	Upper
43	100		
61	18.3	14.3	21.5
87	11.3	8.6	13.0

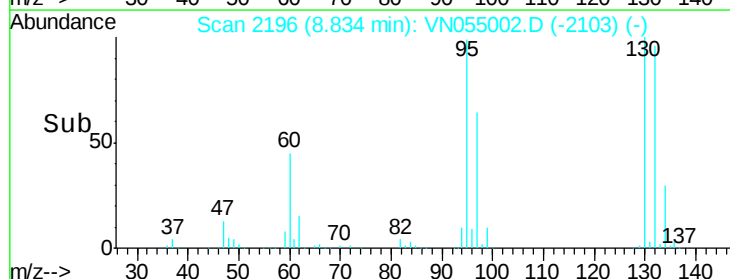
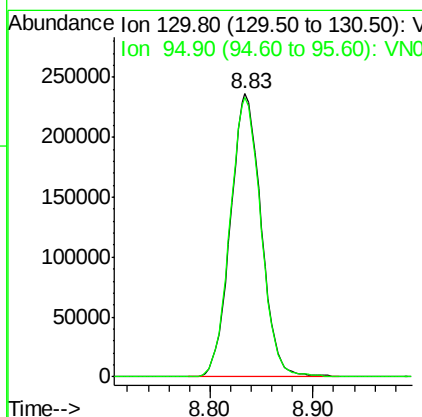
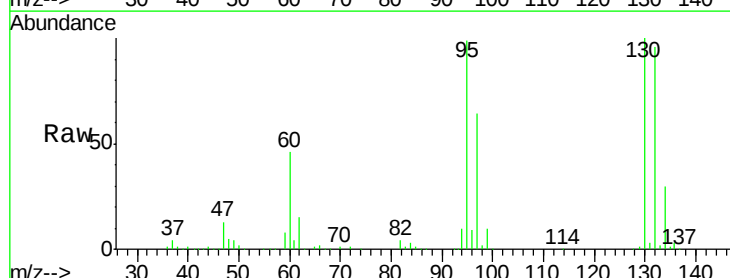
Manual Integrations
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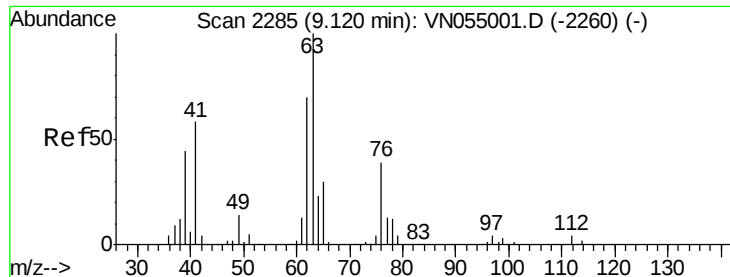
MMDadoda
4/16/2019 1:58:14 PM



#44
Trichloroethene
Concen: 96.626 ug/l
RT: 8.83 min Scan# 2196
Delta R.T. -0.00 min
Lab File: VN055002.D
Acq: 12 Apr 2019 16:32

Tgt Ion	Ratio	Lower	Upper
130	100		
95	98.8	0.0	201.6





#45

1,2-Dichloropropane

Concen: 98.308 ug/l

RT: 9.12 min Scan# 2285

Delta R.T. -0.00 min

Lab File: VN055002.D

Acq: 12 Apr 2019 16:32

Instrument :

MSVOA_N

ClientSampleId :

VSTDIC100

Tot Ion: 63 Resp: 542426

Ion Ratio Lower Upper

63 100

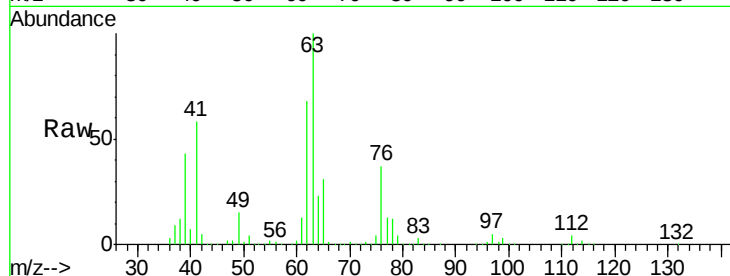
65 30.6 24.4 36.6

Manual Integrations

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Abundance Ion 62.90 (62.60 to 63.60): VN0

Ion 64.90 (64.60 to 65.60): VN0

9.12

250000

200000

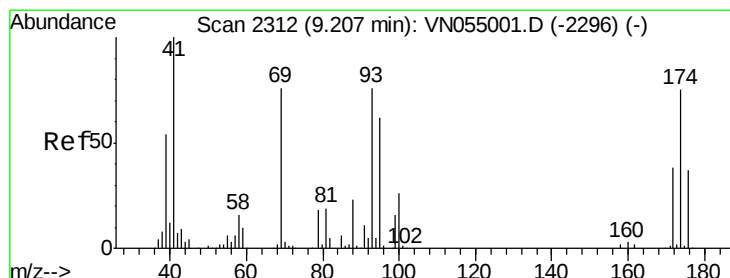
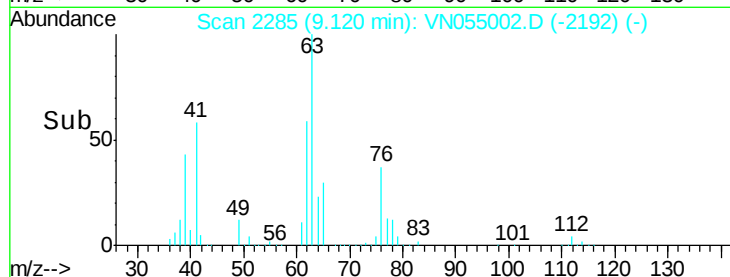
150000

100000

50000

0

Time-->



#46

Dibromomethane

Concen: 97.330 ug/l

RT: 9.21 min Scan# 2313

Delta R.T. 0.00 min

Lab File: VN055002.D

Acq: 12 Apr 2019 16:32

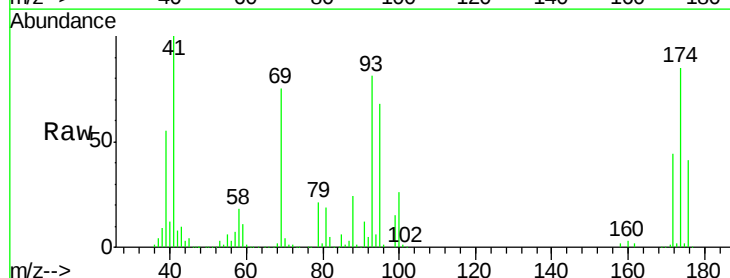
Tgt Ion: 93 Resp: 307069

Ion Ratio Lower Upper

93 100

95 84.7 65.0 97.6

174 105.4 81.0 121.6



Abundance Ion 92.80 (92.50 to 93.50): VN0

Ion 94.80 (94.50 to 95.50): VN0

Ion 173.70 (173.40 to 174.40): V

200000

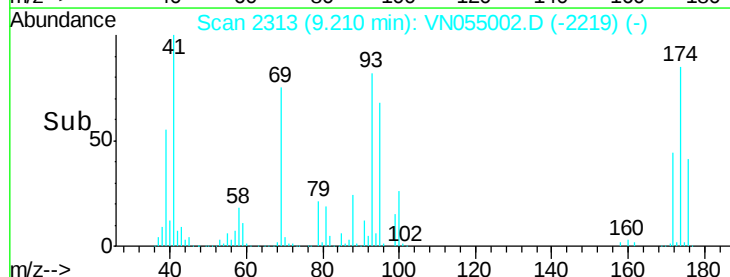
150000

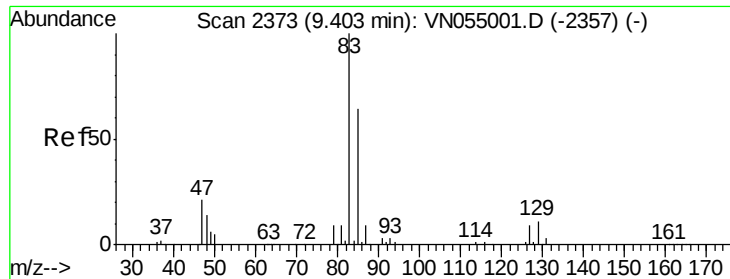
100000

50000

0

Time-->





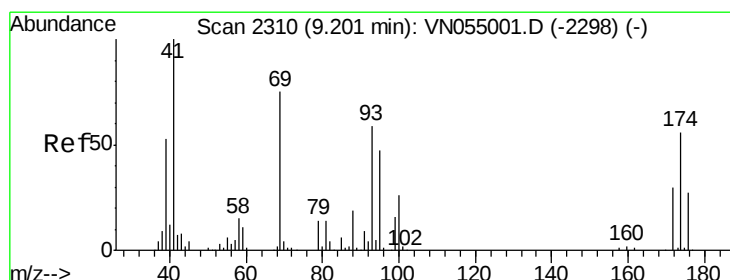
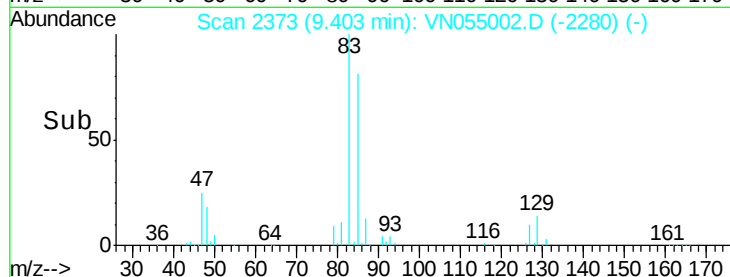
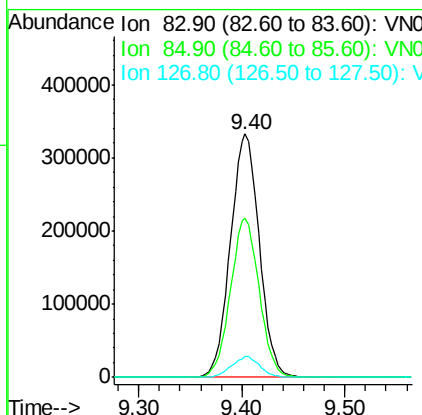
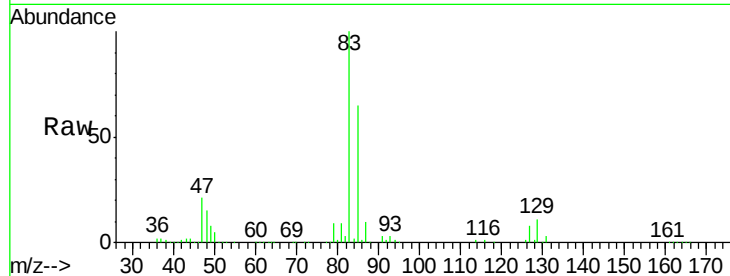
#47
Bromodichloromethane
Concen: 98.777 ug/l
RT: 9.40 min Scan# 2373
Delta R.T. -0.00 min
Lab File: VN055002.D
Acq: 12 Apr 2019 16:32

Instrument :
MSVOA_N
ClientSampleId :
VSTDICC100

Tot Ion	83	Resp	649563
Ion Ratio	100	Lower	Upper
83	100		
85	65.4	51.2	76.8
127	8.3	6.8	10.2

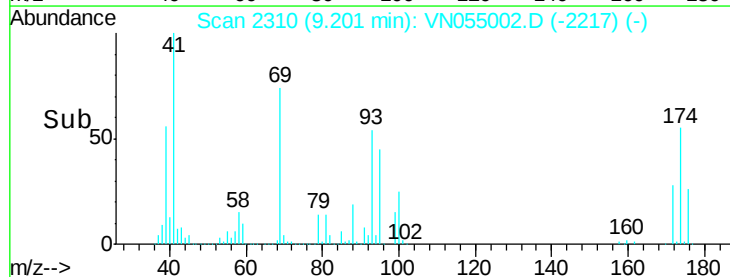
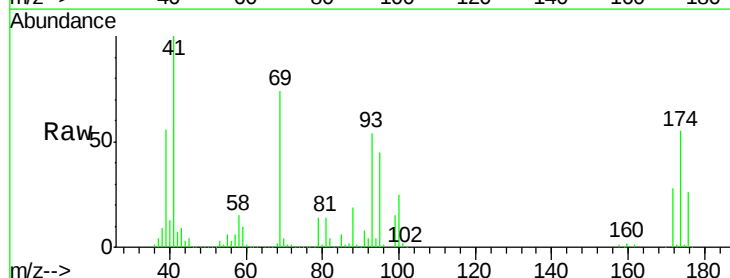
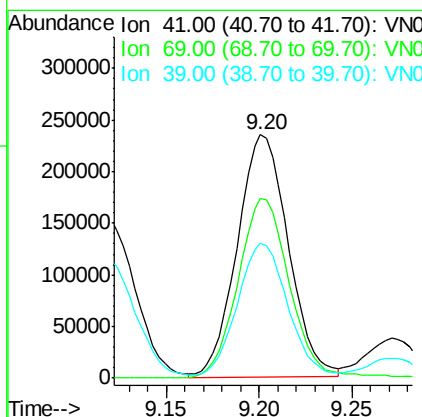
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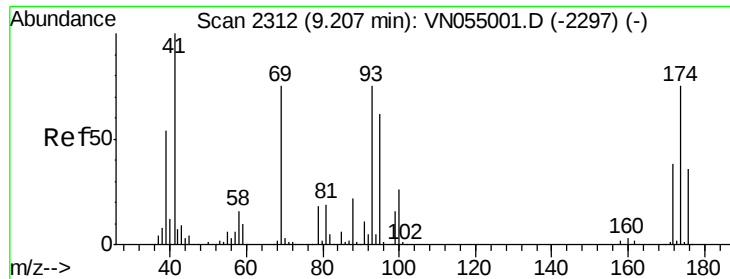
MMDadoda
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#48
Methyl methacrylate
Concen: 110.632 ug/l
RT: 9.20 min Scan# 2310
Delta R.T. -0.00 min
Lab File: VN055002.D
Acq: 12 Apr 2019 16:32

Tgt Ion	41	Resp	449974
Ion Ratio	100	Lower	Upper
41	100		
69	75.7	60.5	90.7
39	55.1	43.9	65.9





#49

1,4-Dioxane

Concen: 2391.223 ug/l

RT: 9.20 min Scan# 2311

Delta R.T. -0.00 min

Lab File: VN055002.D

Acq: 12 Apr 2019 16:32

Instrument :

MSVOA_N

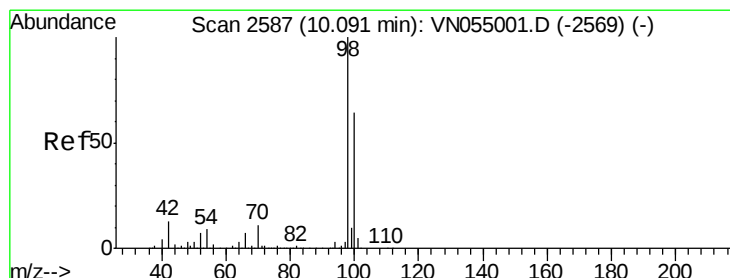
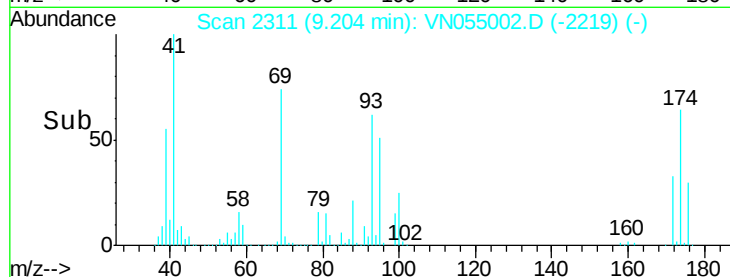
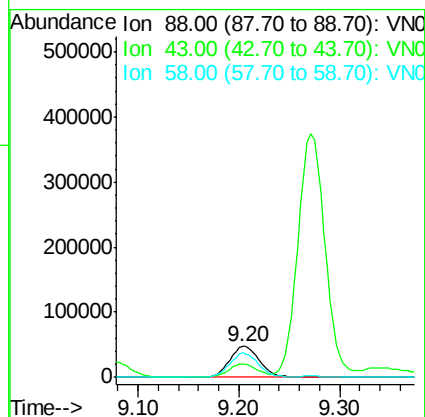
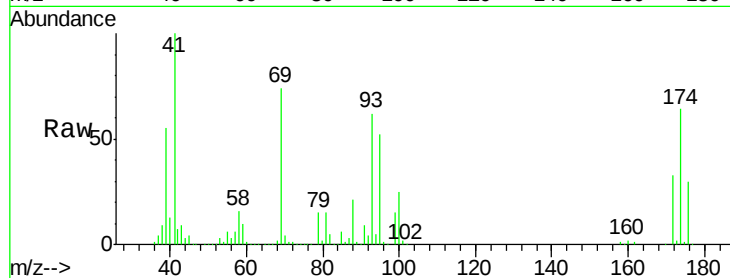
ClientSampleId :

VSTDIC100

Tot Ion:	88	Resp:	100111
Ion	Ratio	Lower	Upper
88	100		
43	39.7	31.8	47.8
58	75.5	61.6	92.4

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#50

Toluene-d8

Concen: 95.230 ug/l

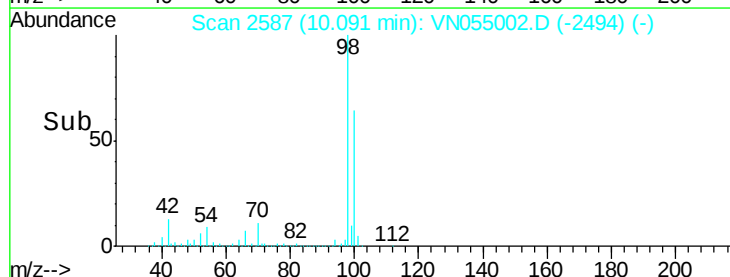
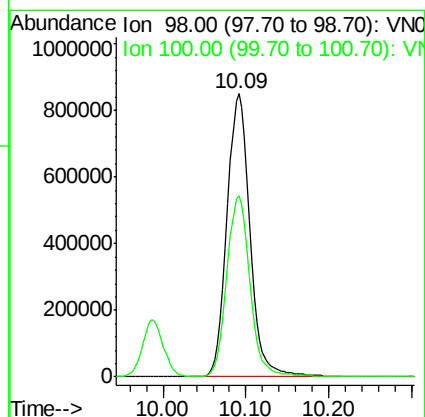
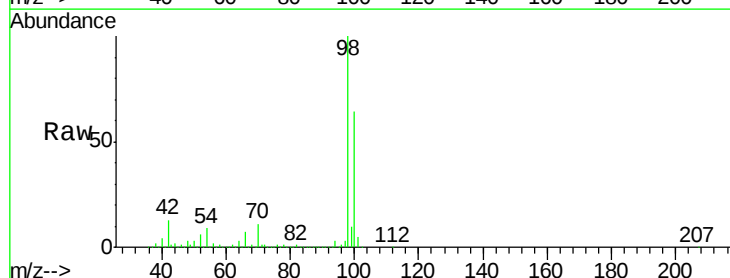
RT: 10.09 min Scan# 2587

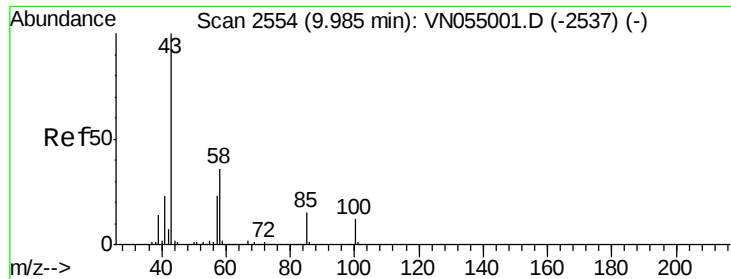
Delta R.T. -0.00 min

Lab File: VN055002.D

Acq: 12 Apr 2019 16:32

Tgt Ion:	98	Resp:	1640330
Ion	Ratio	Lower	Upper
98	100		
100	64.2	51.1	76.7





#51

4-Methyl-2-Pentanone

Concen: 570.483 ug/l

RT: 9.99 min Scan# 2554

Delta R.T. -0.00 min

Lab File: VN055002.D

Acq: 12 Apr 2019 16:32

Instrument :

MSVOA_N

ClientSampleId :

VSTDIC100

Tot Ion: 43 Resp: 2588855

Ion Ratio Lower Upper

43 100

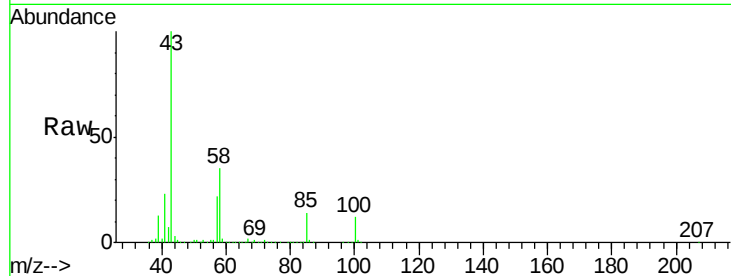
58 35.3 29.0 43.4

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Abundance Ion 43.00 (42.70 to 43.70): VN055001.D (-2537) (-)

Ion 58.00 (57.70 to 58.70): VN055001.D (-2537) (-)

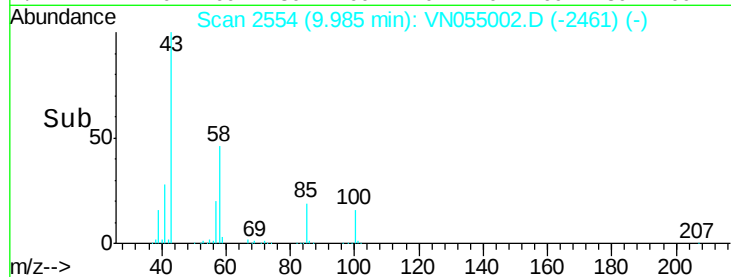
1500000

1000000

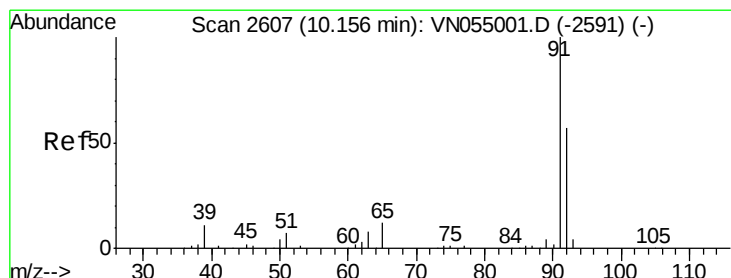
500000

0

9.90 10.00 10.10



Time-->



#52

Toluene

Concen: 97.994 ug/l

RT: 10.16 min Scan# 2607

Delta R.T. -0.00 min

Lab File: VN055002.D

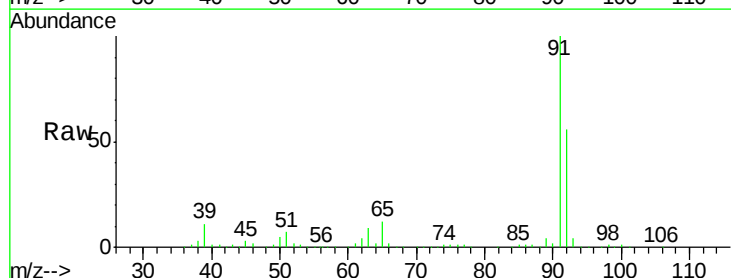
Acq: 12 Apr 2019 16:32

Tgt Ion: 92 Resp: 1141646

Ion Ratio Lower Upper

92 100

91 176.8 140.8 211.2



Abundance Ion 92.00 (91.70 to 92.70): VN055001.D (-2591) (-)

Ion 91.00 (90.70 to 91.70): VN055001.D (-2591) (-)

1200000

1000000

800000

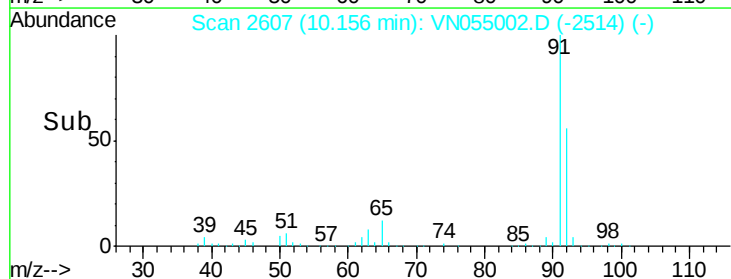
600000

400000

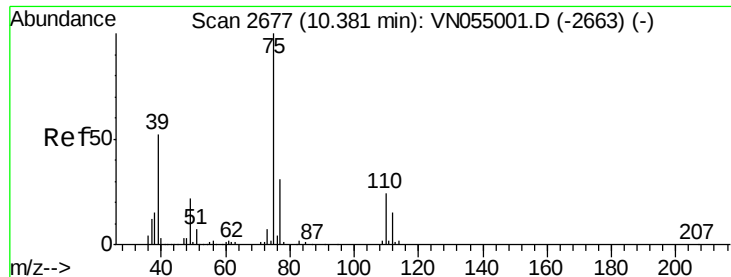
200000

0

10.10 10.20 10.30



Time-->



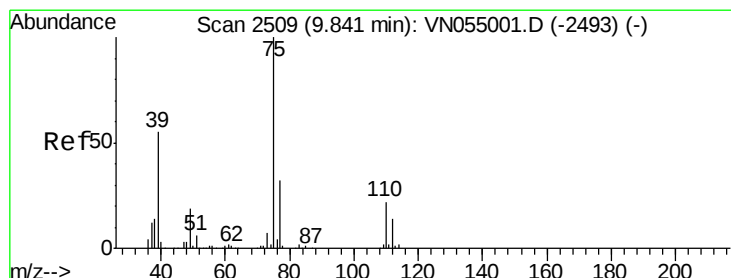
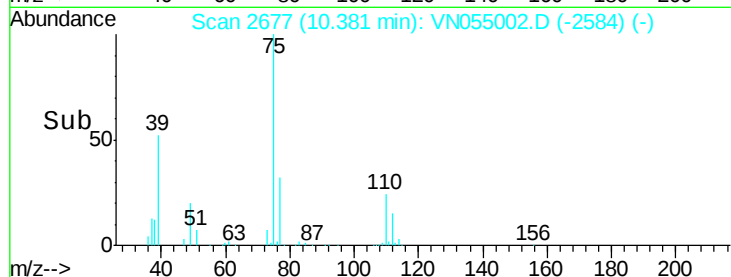
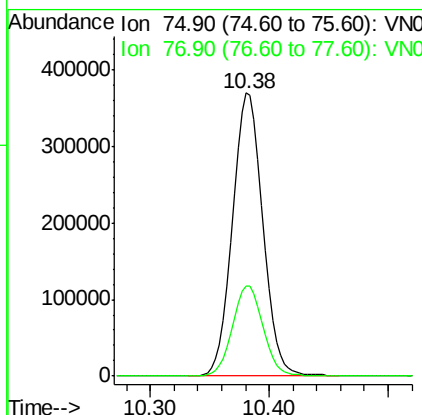
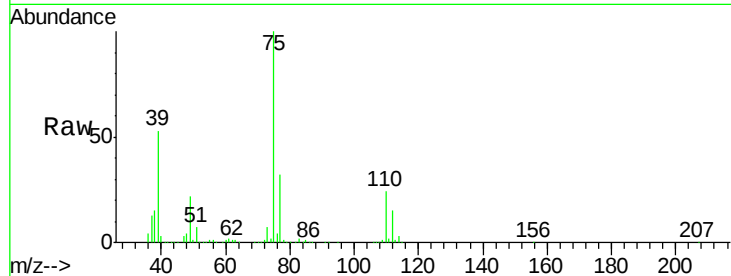
#53
t-1,3-Dichloropropene
Concen: 108.249 ug/l
RT: 10.38 min Scan# 2677
Delta R.T. -0.00 min
Lab File: VN055002.D
Acq: 12 Apr 2019 16:32

Instrument :
MSVOA_N
ClientSampleId :
VSTDIC100

Tot Ion	Ratio	Lower	Upper
75	100		
77	31.9	24.6	37.0

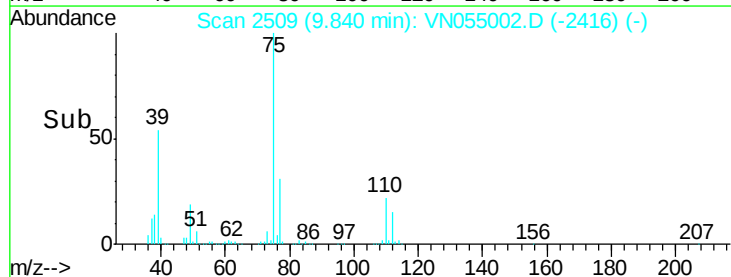
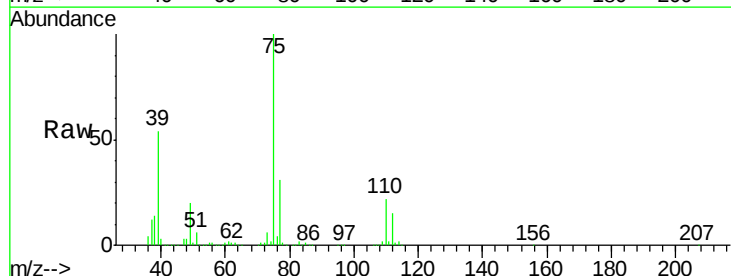
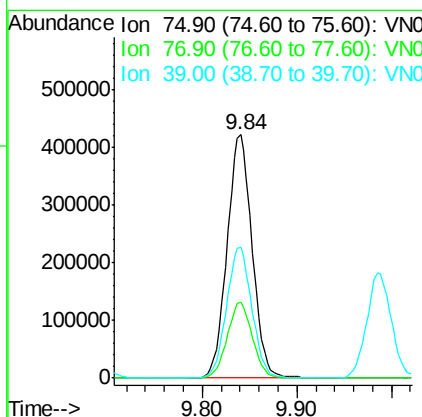
Manual Integrations
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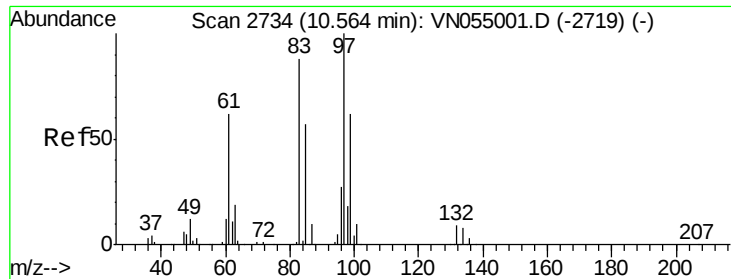
MMDadoda
4/16/2019 1:58:14 PM



#54
cis-1,3-Dichloropropene
Concen: 105.102 ug/l
RT: 9.84 min Scan# 2509
Delta R.T. -0.00 min
Lab File: VN055002.D
Acq: 12 Apr 2019 16:32

Tgt Ion	Ratio	Lower	Upper
75	100		
77	31.0	25.8	38.6
39	53.6	43.8	65.8





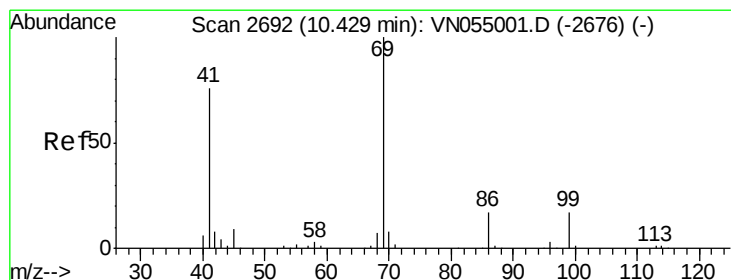
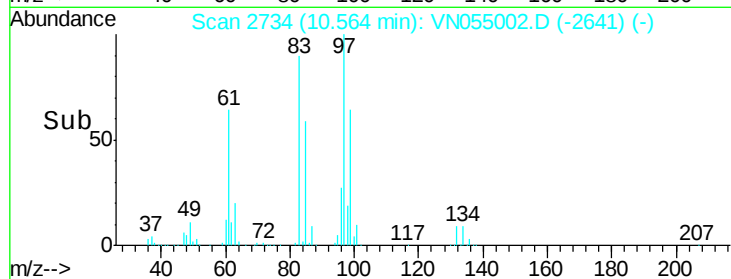
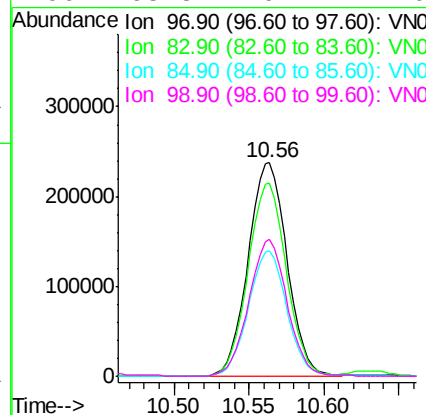
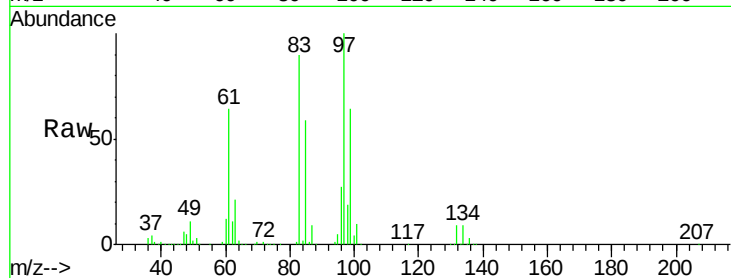
#55
 1,1,2-Trichloroethane
 Concen: 100.963 ug/l
 RT: 10.56 min Scan# 2734
 Delta R.T. -0.00 min
 Lab File: VN055002.D
 Acq: 12 Apr 2019 16:32

Instrument :
 MSVOA_N
 ClientSampleId :
 VSTDIC100

Tot Ion:	97	Resp:	430598
Ion	Ratio	Lower	Upper
97	100		
83	90.3	70.5	105.7
85	58.7	45.5	68.3
99	63.8	49.4	74.0

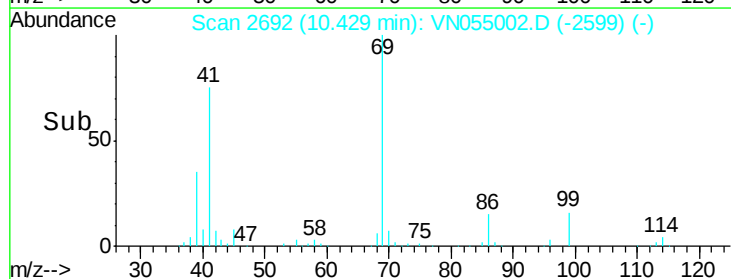
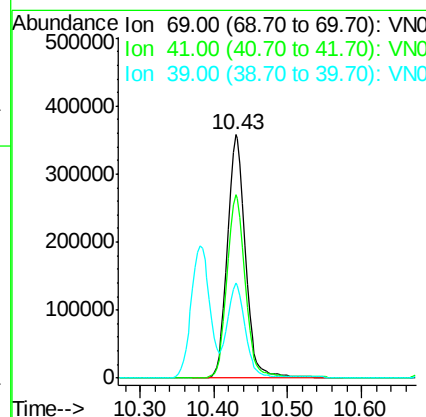
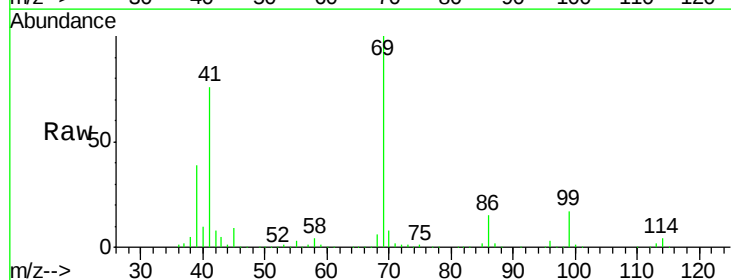
Manual Integrations
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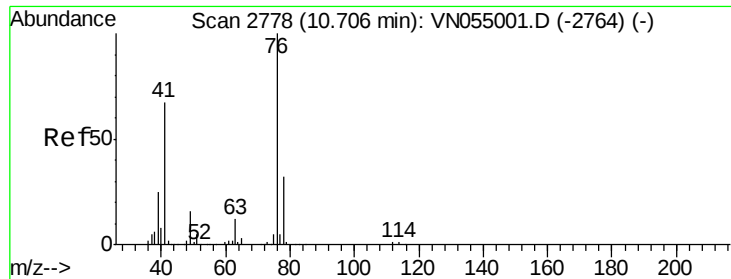
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#56
 Ethyl methacrylate
 Concen: 110.334 ug/l
 RT: 10.43 min Scan# 2692
 Delta R.T. -0.00 min
 Lab File: VN055002.D
 Acq: 12 Apr 2019 16:32

Tgt Ion:	69	Resp:	612833
Ion	Ratio	Lower	Upper
69	100		
41	74.9	61.4	92.0
39	38.4	30.8	46.2





#57

1,3-Dichloropropane

Concen: 101.640 ug/l

RT: 10.71 min Scan# 2779

Delta R.T. 0.00 min

Lab File: VN055002.D

Acq: 12 Apr 2019 16:32

Instrument :

MSVOA_N

ClientSampleId :

VSTDIC100

Tot Ion: 76 Resp: 756519

Ion Ratio Lower Upper

76 100

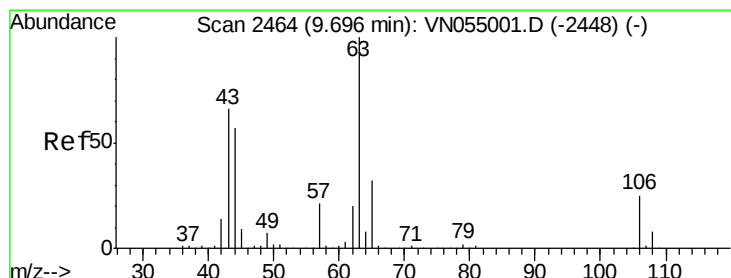
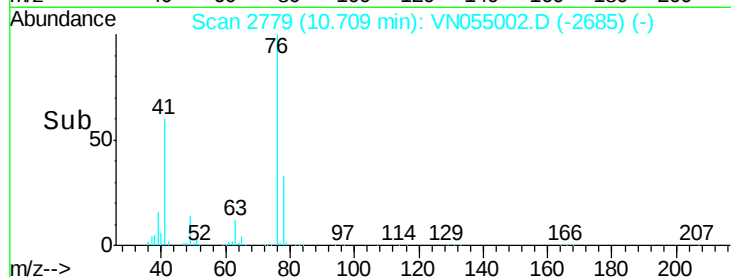
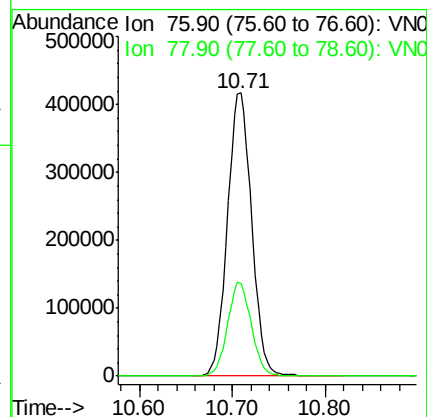
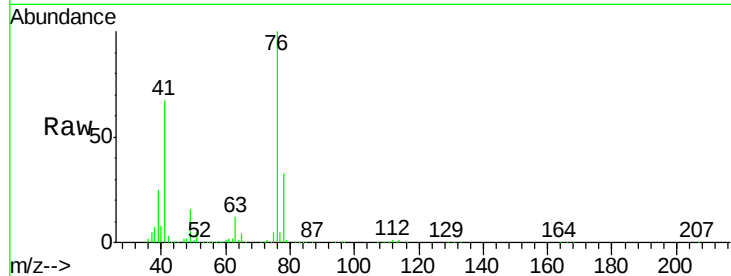
78 32.4 25.6 38.4

Manual Integrations

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#58

2-Chloroethyl Vinyl ether

Concen: 570.241 ug/l

RT: 9.70 min Scan# 2464

Delta R.T. -0.00 min

Lab File: VN055002.D

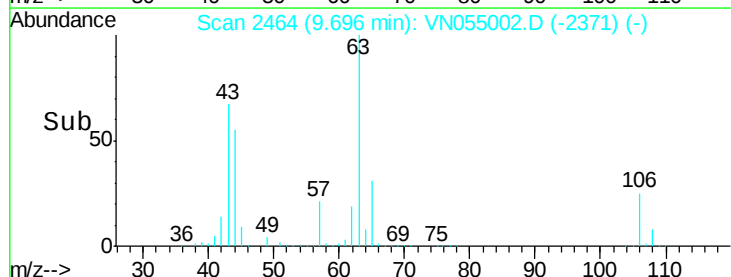
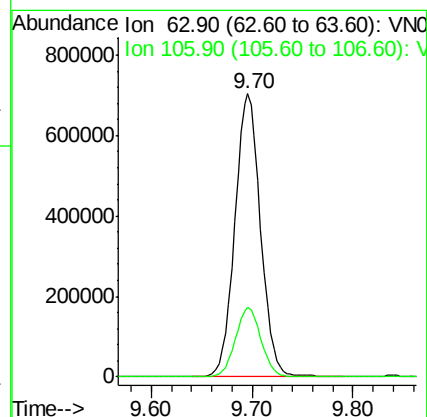
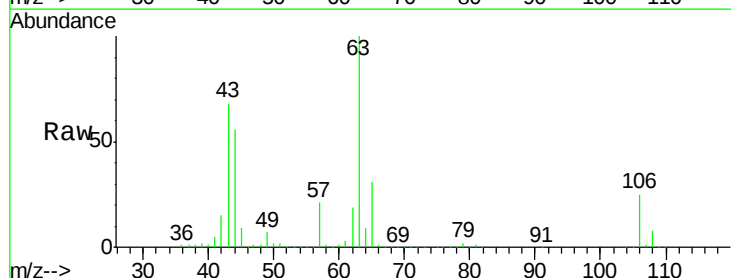
Acq: 12 Apr 2019 16:32

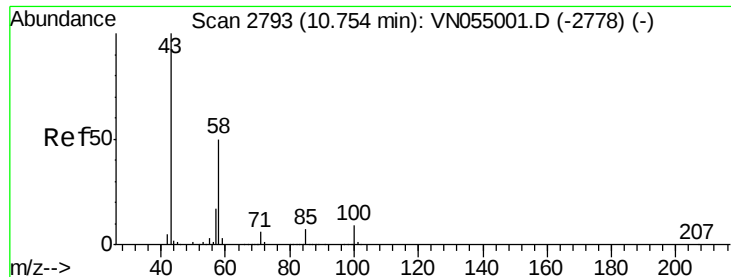
Tgt Ion: 63 Resp: 1244838

Ion Ratio Lower Upper

63 100

106 24.4 20.0 30.0





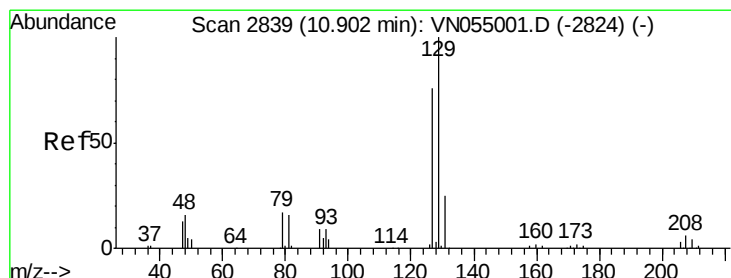
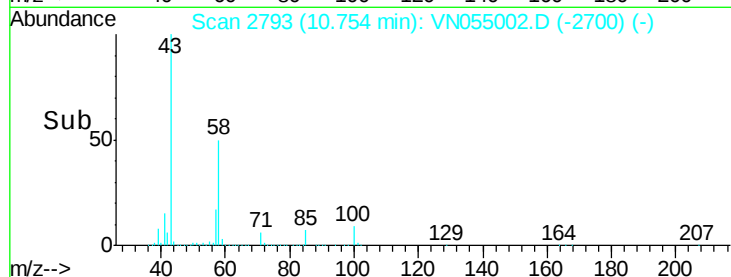
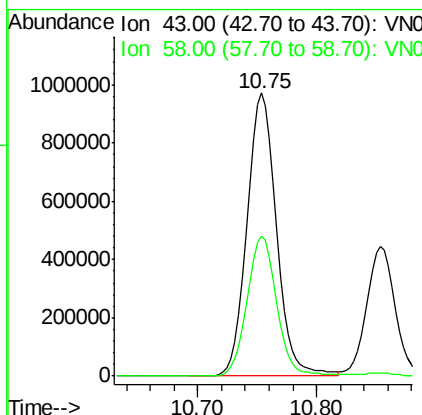
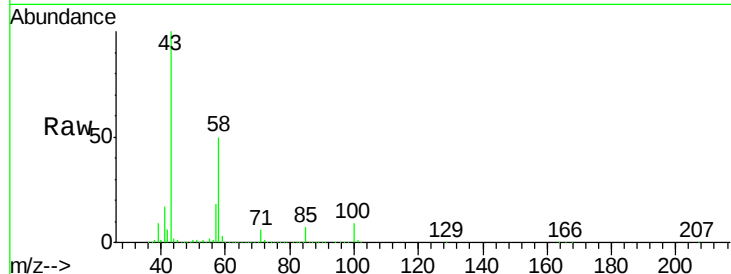
#59
2-Hexanone
Concen: 590.174 ug/l
RT: 10.75 min Scan# 2793
Delta R.T. -0.00 min
Lab File: VN055002.D
Acq: 12 Apr 2019 16:32

Instrument :
MSVOA_N
ClientSampled :
VSTDIC100

Tot Ion: 43 Resp: 1665707
Ion Ratio Lower Upper
43 100
58 50.0 25.1 75.2

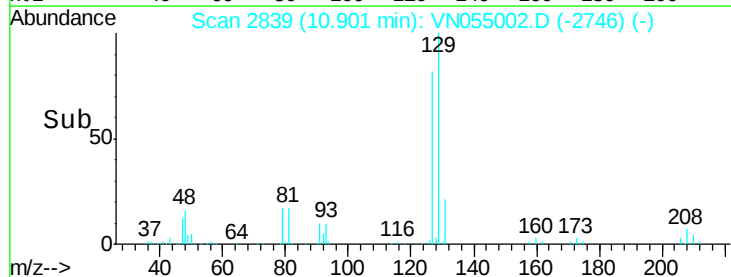
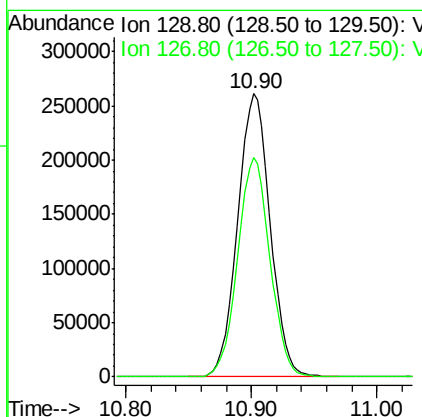
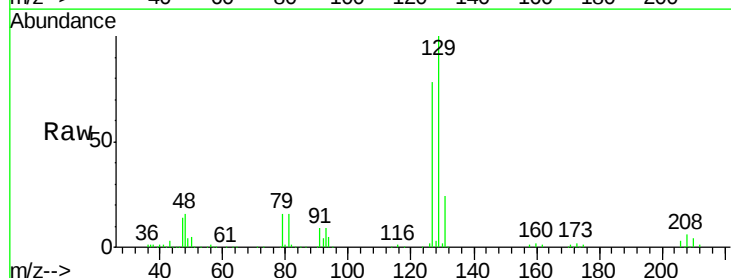
Manual Integrations
APPROVED

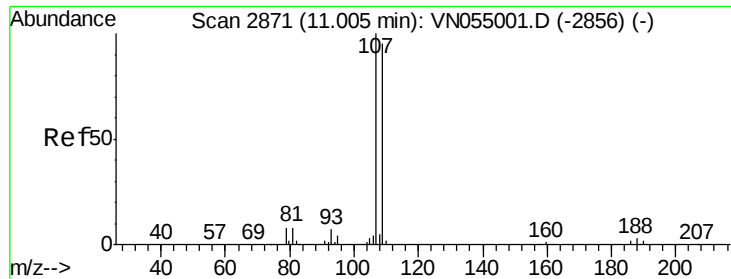
MMDadoda
4/16/2019 1:58:14 PM



#60
Dibromochloromethane
Concen: 106.111 ug/l
RT: 10.90 min Scan# 2839
Delta R.T. -0.00 min
Lab File: VN055002.D
Acq: 12 Apr 2019 16:32

Tgt Ion: 129 Resp: 470824
Ion Ratio Lower Upper
129 100
127 77.1 38.2 114.6





#61

1,2-Dibromoethane

Concen: 106.351 ug/l

RT: 11.01 min Scan# 2872

Delta R.T. 0.00 min

Lab File: VN055002.D

Acq: 12 Apr 2019 16:32

Instrument :

MSVOA_N

ClientSampled :

VSTDIC100

Tot Ion:107 Resp: 425289

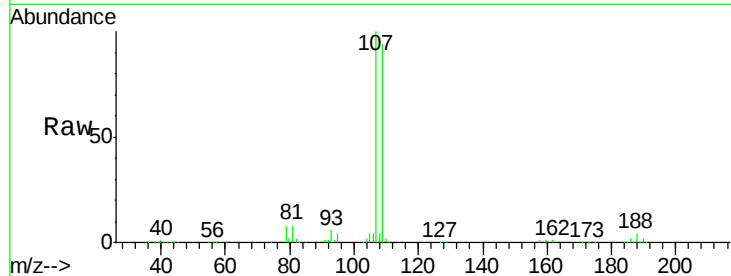
Ion Ratio Lower Upper

107 100

109 94.5 76.5 114.7

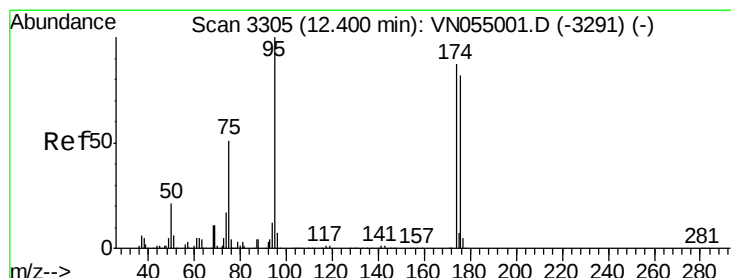
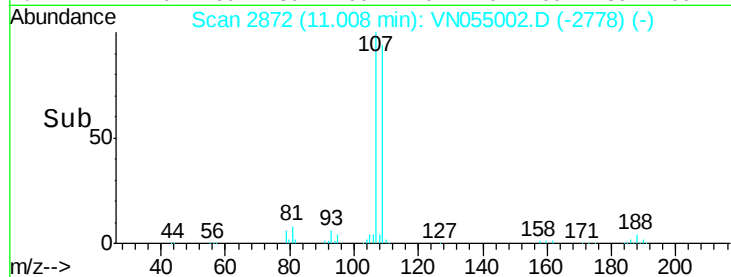
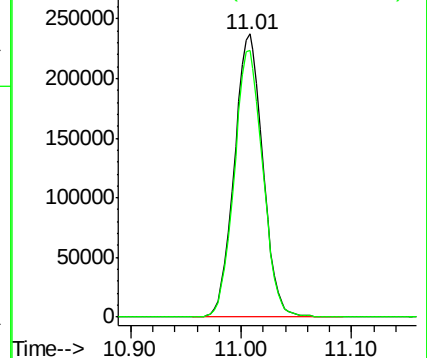
Manual Integrations
APPROVED

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Abundance Ion 106.90 (106.60 to 107.60): V

Ion 108.80 (108.50 to 109.50): V



#62

4-Bromofluorobenzene

Concen: 100.174 ug/l

RT: 12.40 min Scan# 3305

Delta R.T. -0.00 min

Lab File: VN055002.D

Acq: 12 Apr 2019 16:32

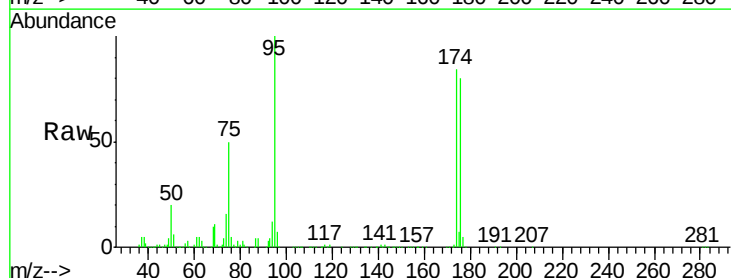
Tgt Ion: 95 Resp: 574250

Ion Ratio Lower Upper

95 100

174 85.8 0.0 174.4

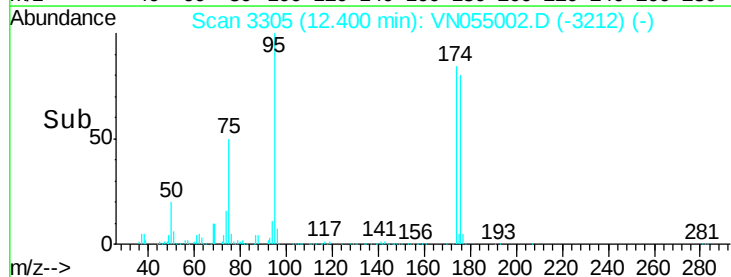
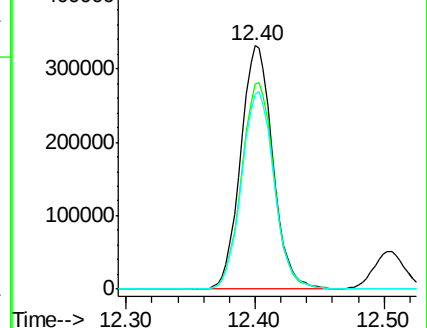
176 82.7 0.0 166.8

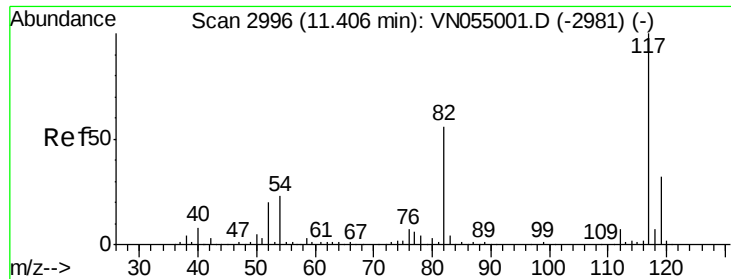


Abundance Ion 94.90 (94.60 to 95.60): V

Ion 173.80 (173.50 to 174.50): V

Ion 175.80 (175.50 to 176.50): V





#63

Chlorobenzene-d5

Concen: 50.000 ug/l

RT: 11.41 min Scan# 2996

Delta R.T. -0.00 min

Lab File: VN055002.D

Acq: 12 Apr 2019 16:32

Instrument :

MSVOA_N

ClientSampleId :

VSTDIC100

Tot Ion:117 Resp: 625245

Ion Ratio Lower Upper

117 100

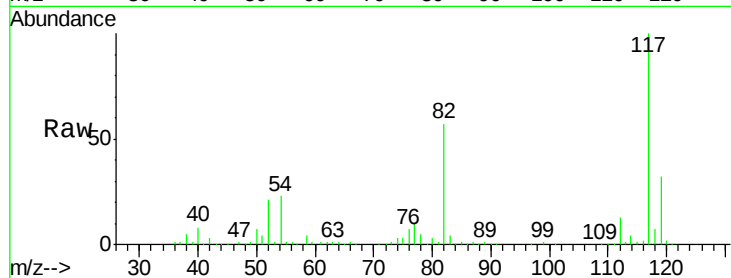
82 56.5 44.6 66.8

119 32.3 25.5 38.3

Manual Integrations
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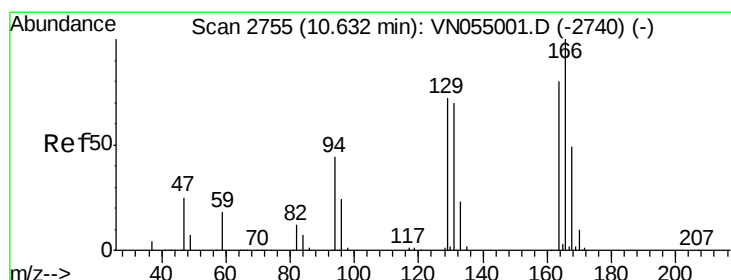
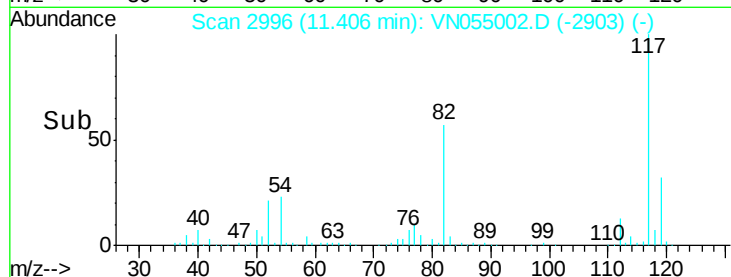
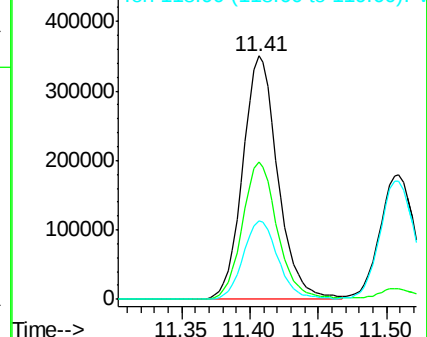
4/16/2019 1:58:14 PM



Abundance Ion 116.90 (116.60 to 117.60): V

Ion 82.00 (81.70 to 82.70): VN

Ion 118.90 (118.60 to 119.60): V



#64

Tetrachloroethene

Concen: 90.852 ug/l

RT: 10.63 min Scan# 2755

Delta R.T. -0.00 min

Lab File: VN055002.D

Acq: 12 Apr 2019 16:32

Tgt Ion:164 Resp: 454849

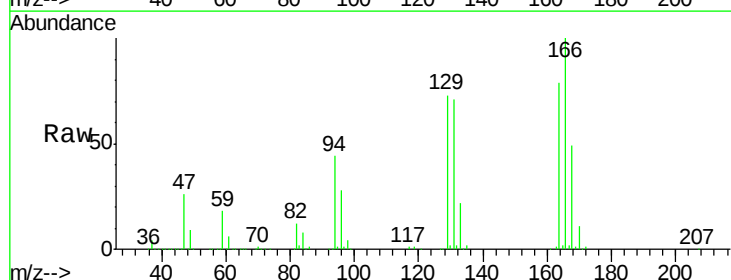
Ion Ratio Lower Upper

164 100

166 127.3 100.0 150.0

129 93.3 72.0 108.0

131 90.9 69.7 104.5

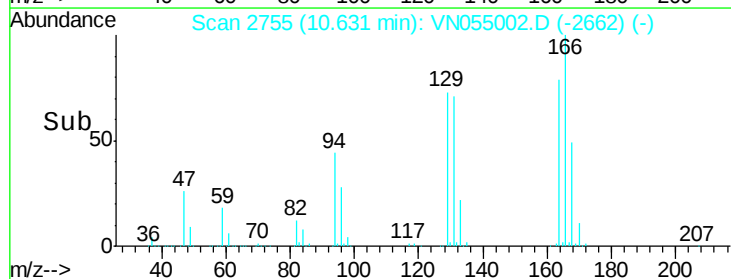
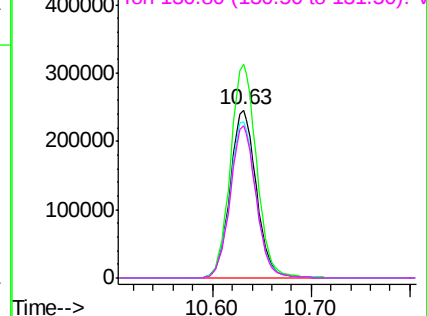


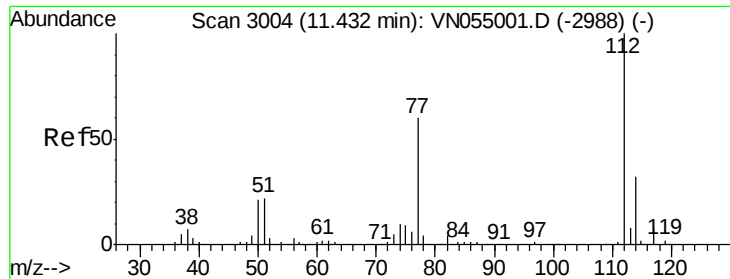
Abundance Ion 163.80 (163.50 to 164.50): V

Ion 165.80 (165.50 to 166.50): V

Ion 128.80 (128.50 to 129.50): V

Ion 130.80 (130.50 to 131.50): V





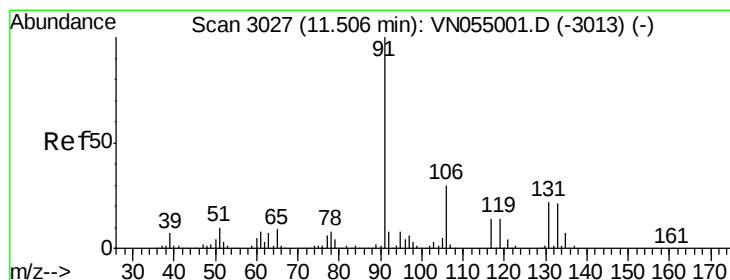
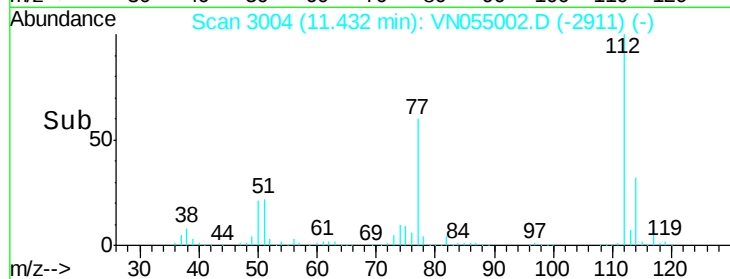
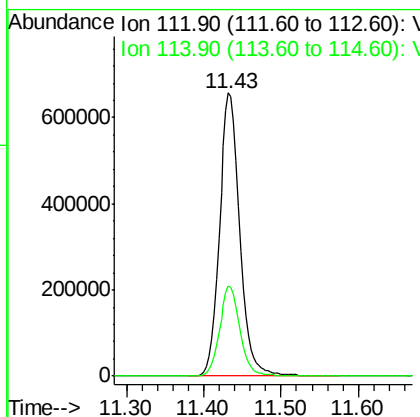
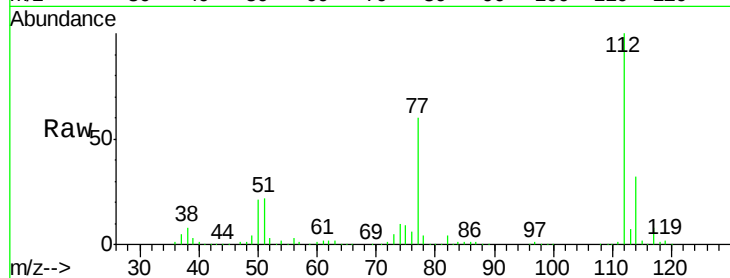
#65
Chlorobenzene
Concen: 95.728 ug/l
RT: 11.43 min Scan# 3004
Delta R.T. -0.00 min
Lab File: VN055002.D
Acq: 12 Apr 2019 16:32

Instrument :
MSVOA_N
ClientSampleId :
VSTDIC100

Tot Ion:112 Resp: 1205304
Ion Ratio Lower Upper
112 100
114 31.7 25.3 37.9

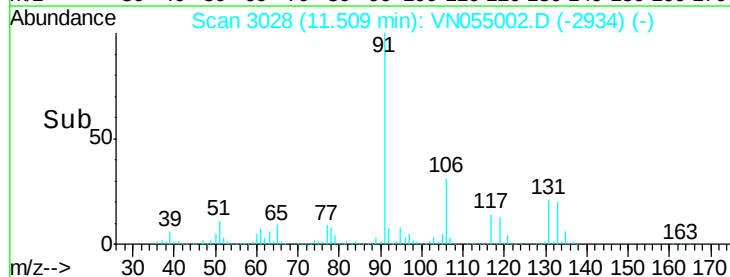
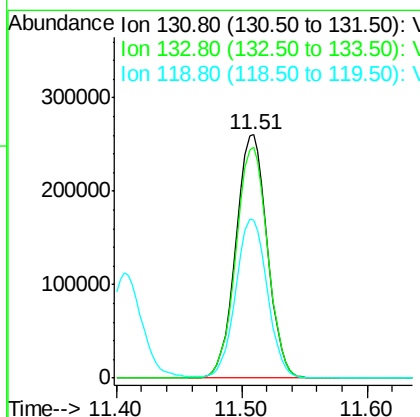
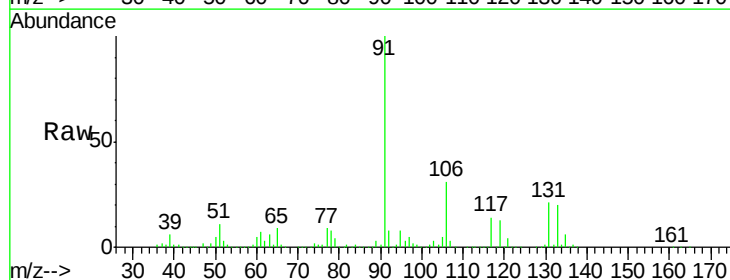
Manual Integrations
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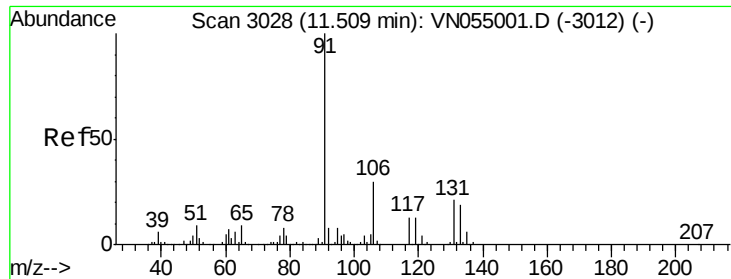
MMDadoda
4/16/2019 1:58:14 PM



#66
1,1,1,2-Tetrachloroethane
Concen: 98.432 ug/l
RT: 11.51 min Scan# 3028
Delta R.T. 0.00 min
Lab File: VN055002.D
Acq: 12 Apr 2019 16:32

Tgt Ion:131 Resp: 453838
Ion Ratio Lower Upper
131 100
133 95.5 47.8 143.3
119 66.0 33.6 100.6





#67

Ethyl Benzene

Concen: 97.476 ug/l

RT: 11.51 min Scan# 3028

Delta R.T. -0.00 min

Lab File: VN055002.D

Acq: 12 Apr 2019 16:32

Instrument :

MSVOA_N

ClientSampleId :

VSTDIC100

Tot Ion: 91 Resp: 2211604

Ion Ratio Lower Upper

91 100

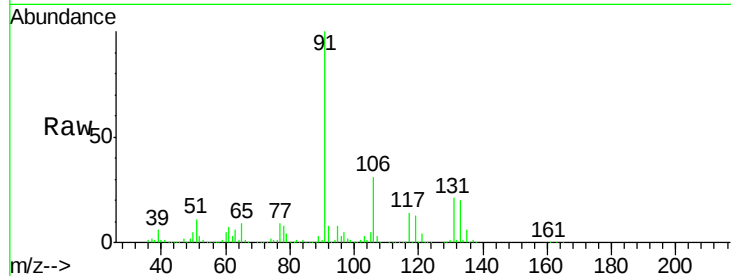
106 30.6 24.3 36.5

Manual Integrations

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Abundance Ion 91.00 (90.70 to 91.70): VN055001.D (-3012) (-)

Ion 106.00 (105.70 to 106.70): VN055001.D (-3012) (-)

2000000

1500000

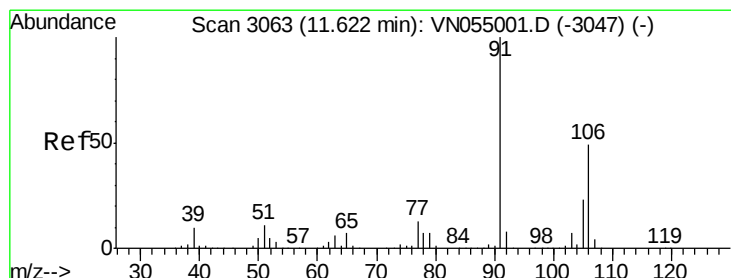
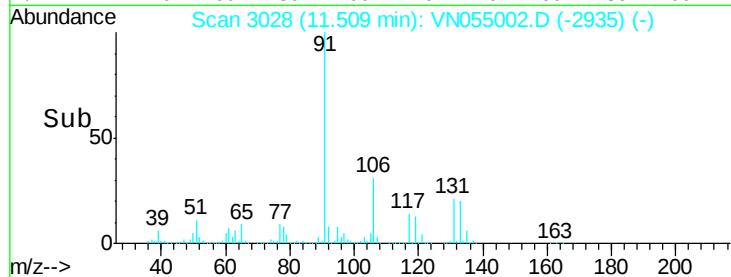
1000000

500000

0

11.50 11.51 11.52

Time-->



#68

m/p-Xylenes

Concen: 196.920 ug/l

RT: 11.62 min Scan# 3063

Delta R.T. -0.00 min

Lab File: VN055002.D

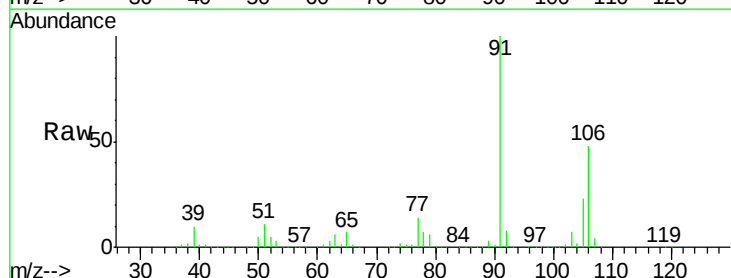
Acq: 12 Apr 2019 16:32

Tgt Ion:106 Resp: 1634861

Ion Ratio Lower Upper

106 100

91 207.8 165.9 248.9



Abundance Ion 106.00 (105.70 to 106.70): VN055001.D (-3047) (-)

Ion 91.00 (90.70 to 91.70): VN055001.D (-3047) (-)

2000000

1500000

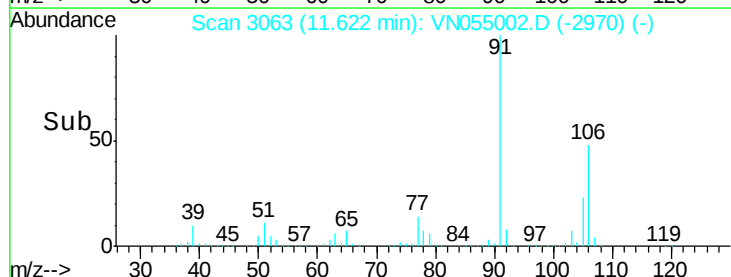
1000000

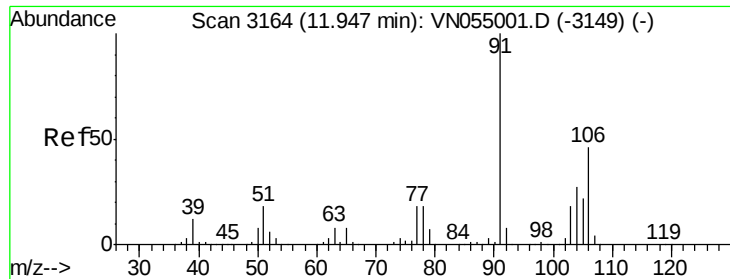
500000

0

11.50 11.51 11.52

Time-->





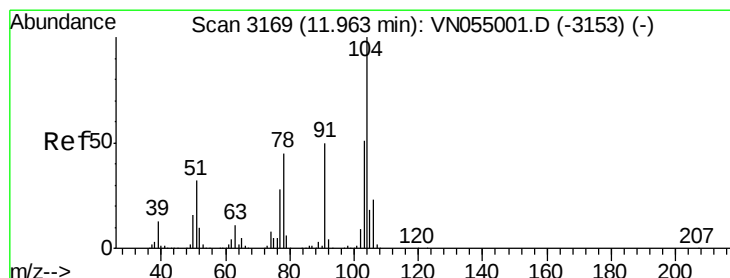
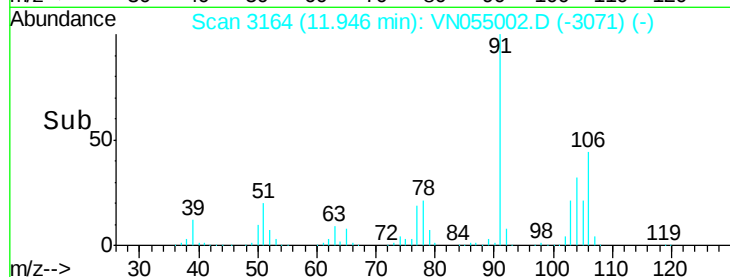
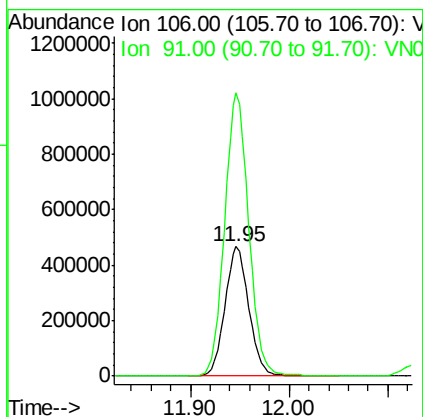
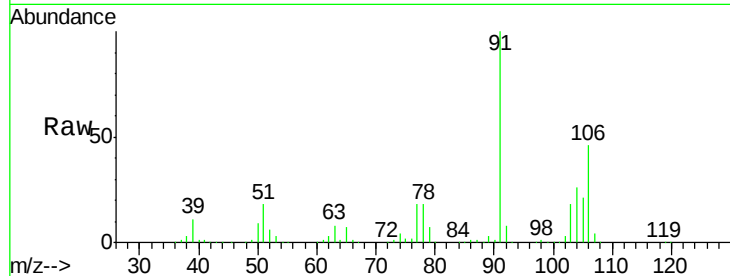
#69
o-Xylene
Concen: 98.365 ug/l
RT: 11.95 min Scan# 3164
Delta R.T. -0.00 min
Lab File: VN055002.D
Acq: 12 Apr 2019 16:32

Instrument :
MSVOA_N
ClientSampled :
VSTDIC100

Tot Ion	Ion	Ratio	Lower	Upper
795234	106	100		
	91	219.9	109.9	329.8

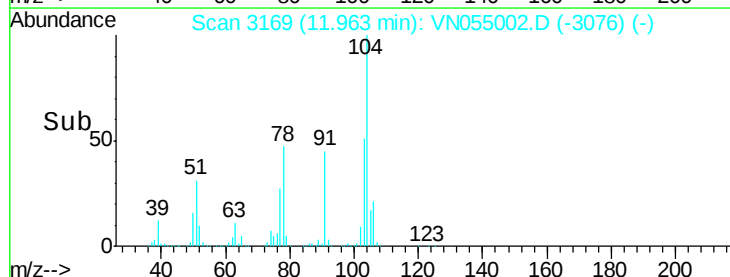
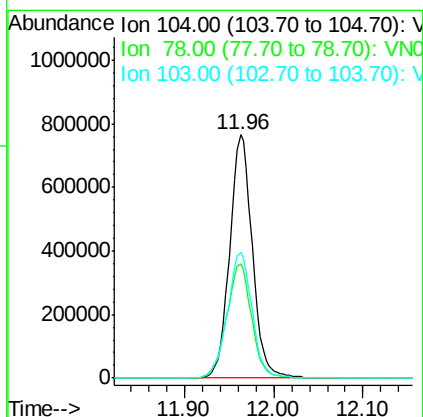
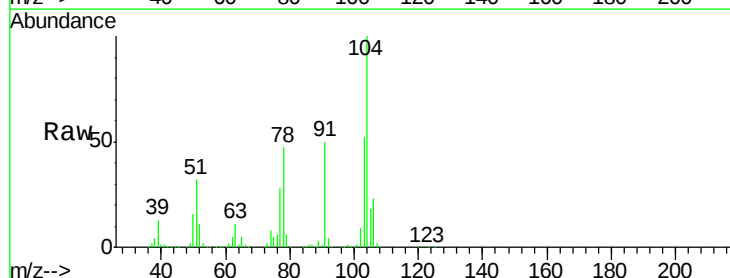
Manual Integrations
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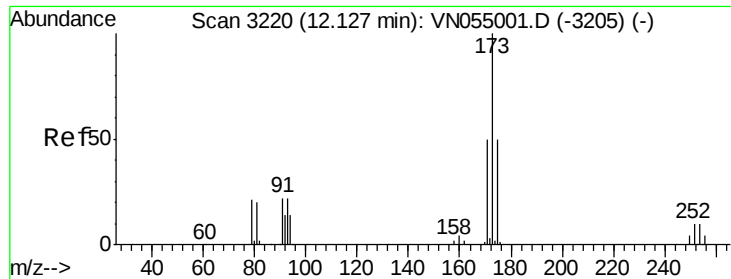
MMDadoda
4/16/2019 1:58:14 PM



#70
Styrene
Concen: 103.506 ug/l
RT: 11.96 min Scan# 3169
Delta R.T. -0.00 min
Lab File: VN055002.D
Acq: 12 Apr 2019 16:32

Tgt Ion	Ion	Ratio	Lower	Upper
1344089	104	100		
	78	51.9	40.3	60.5
	103	56.2	44.3	66.5





#71

Bromoform

Concen: 110.567 ug/l

RT: 12.13 min Scan# 3220

Delta R.T. -0.00 min

Lab File: VN055002.D

Acq: 12 Apr 2019 16:32

Instrument :

MSVOA_N

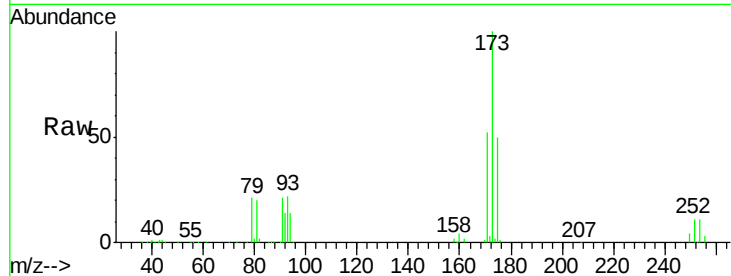
ClientSampleId :

VSTDIC100

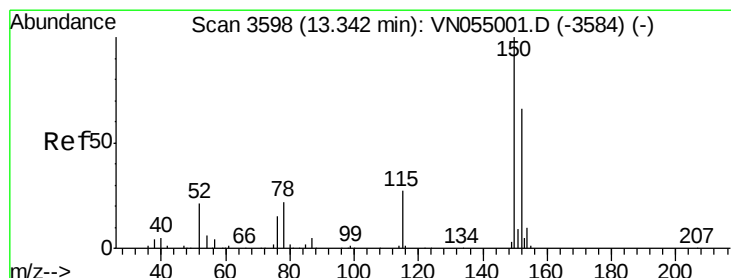
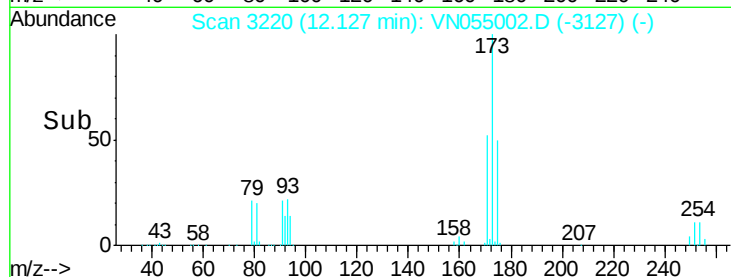
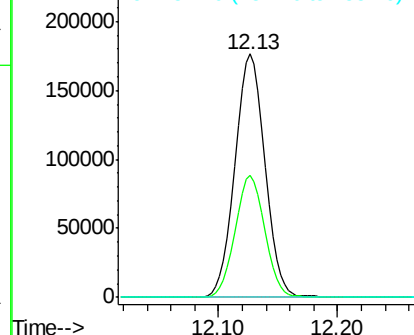
Tot Ion	Ratio	Lower	Upper
173	100		
175	49.5	24.3	73.0
254	0.0	0.1	0.1#

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



#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

RT: 13.34 min Scan# 3598

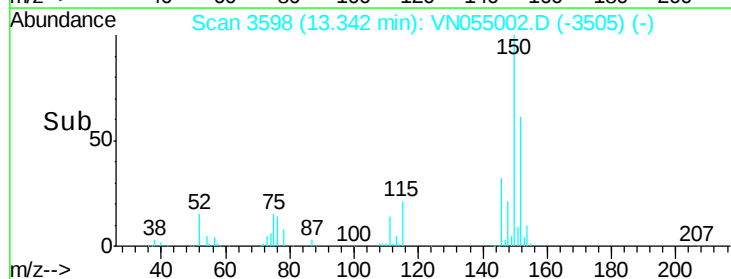
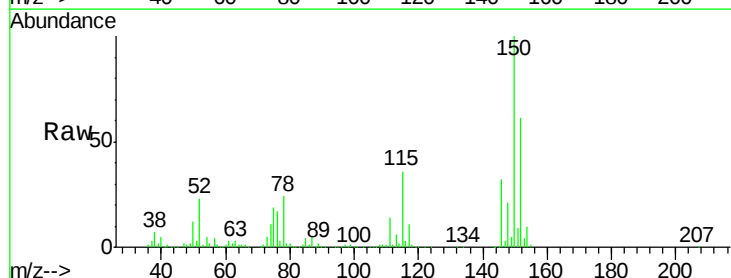
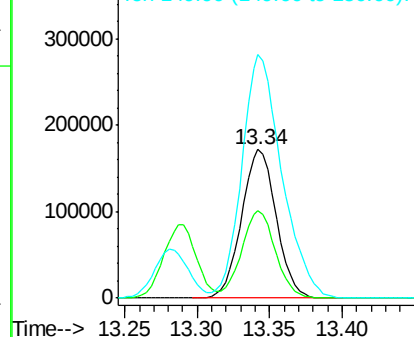
Delta R.T. -0.00 min

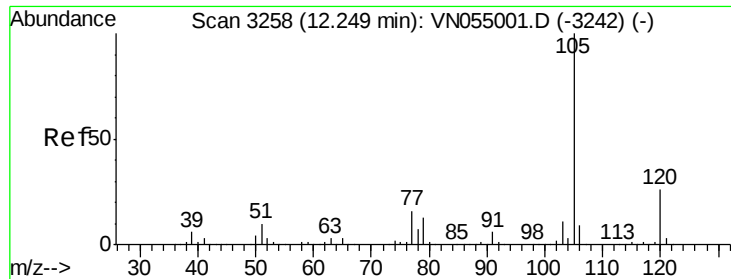
Lab File: VN055002.D

Acq: 12 Apr 2019 16:32

Tgt Ion	Ratio	Lower	Upper
152	100		
115	57.8	28.5	85.6
150	188.9	0.0	347.2

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





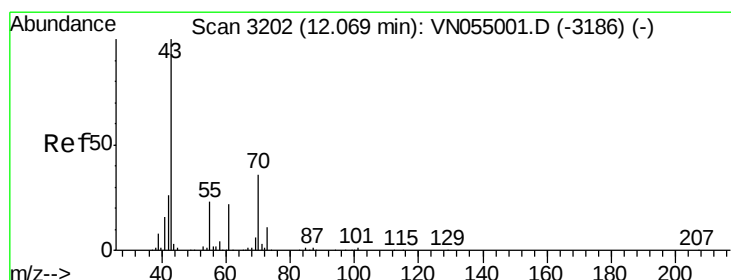
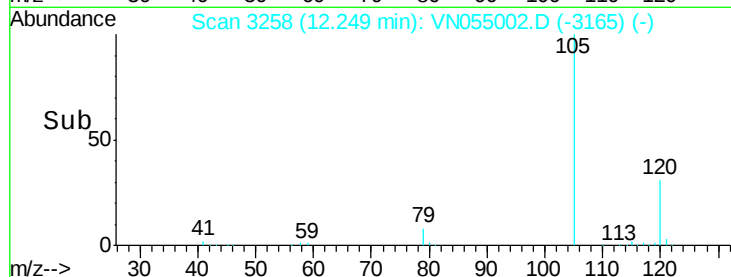
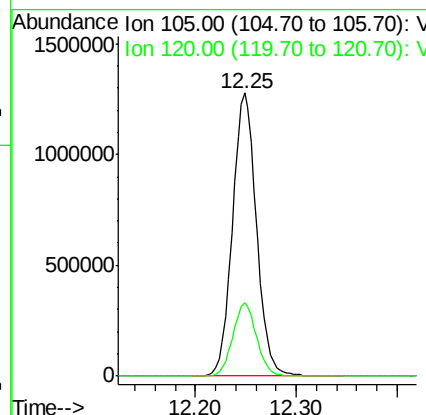
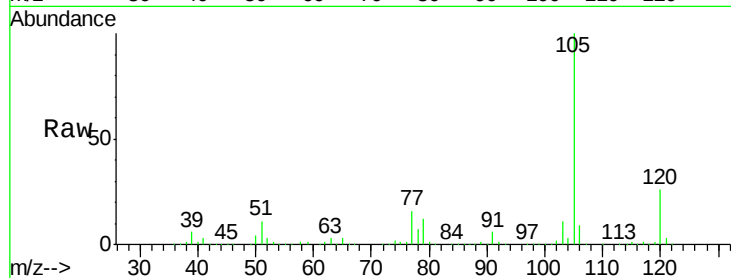
#73
Isopropylbenzene
Concen: 88.621 ug/l
RT: 12.25 min Scan# 3258
Delta R.T. -0.00 min
Lab File: VN055002.D
Acq: 12 Apr 2019 16:32

Instrument :
MSVOA_N
ClientSampleId :
VSTDIC100

Tot Ion:105 Resp: 2117401
Ion Ratio Lower Upper
105 100
120 25.8 13.3 39.9

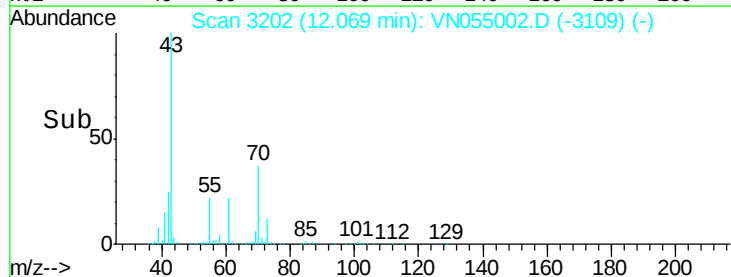
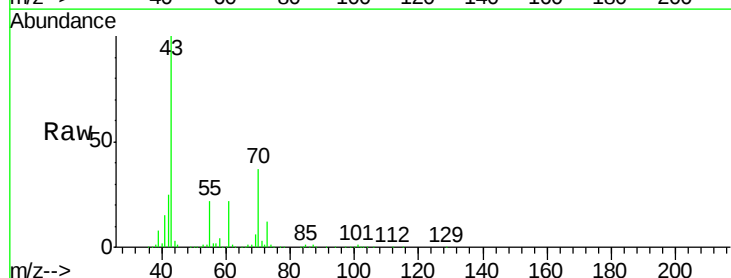
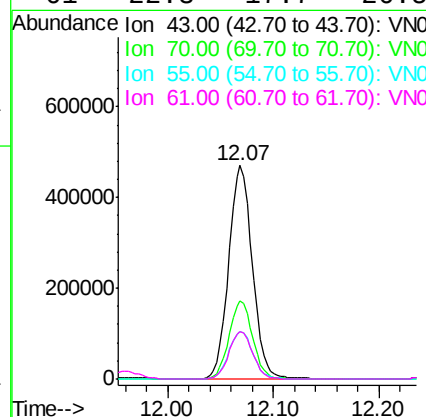
Manual Integrations
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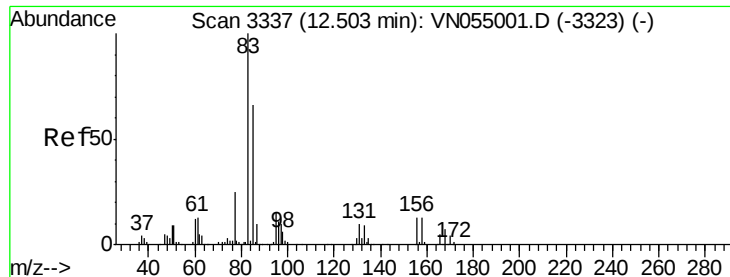
MMDadoda
4/16/2019 1:58:14 PM



#74
N-ethyl acetate
Concen: 109.041 ug/l
RT: 12.07 min Scan# 3202
Delta R.T. -0.00 min
Lab File: VN055002.D
Acq: 12 Apr 2019 16:32

Tgt Ion: 43 Resp: 729572
Ion Ratio Lower Upper
43 100
70 36.5 29.4 44.0
55 22.9 19.0 28.4
61 22.3 17.7 26.5





#75

1,1,2,2-Tetrachloroethane

Concen: 92.321 ug/l

RT: 12.50 min Scan# 3337

Delta R.T. -0.00 min

Lab File: VN055002.D

Acq: 12 Apr 2019 16:32

Instrument :

MSVOA_N

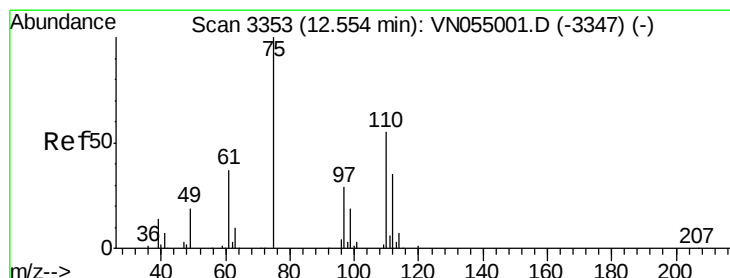
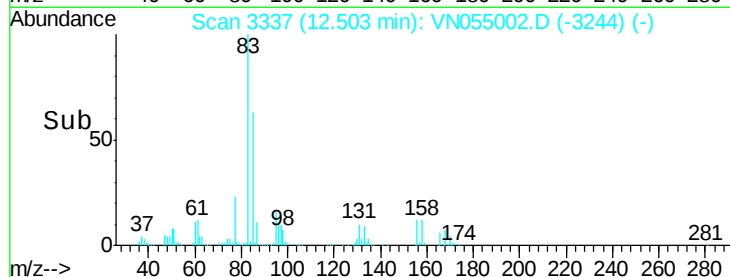
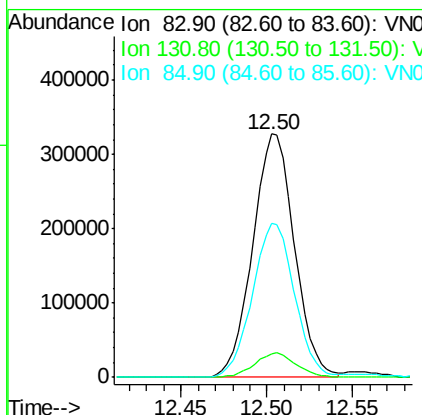
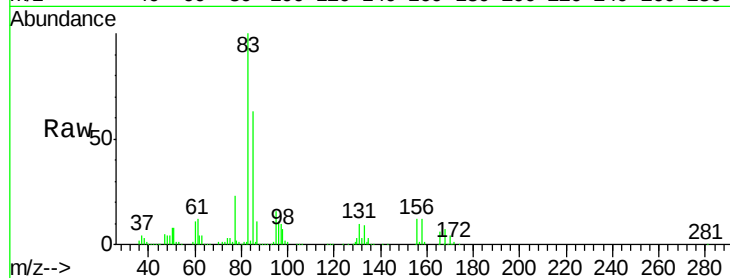
ClientSampleId :

VSTDIC100

Tot Ion:	83	Resp:	549869
Ion Ratio	Lower	Upper	
83	100		
131	10.0	5.0	15.0
85	63.8	32.3	96.9

Manual Integrations
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#76

1,2,3-Trichloropropane

Concen: 88.968 ug/l m

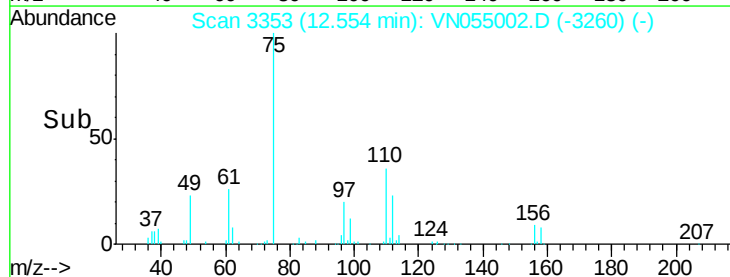
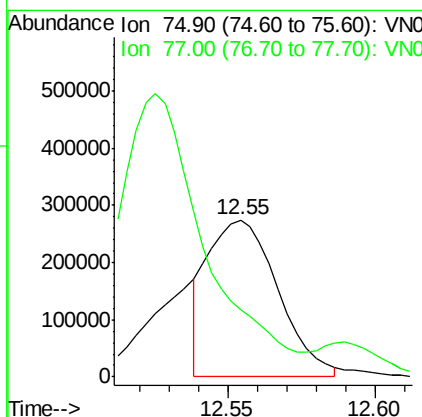
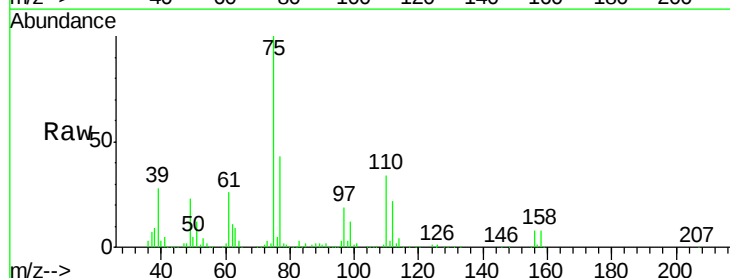
RT: 12.55 min Scan# 3353

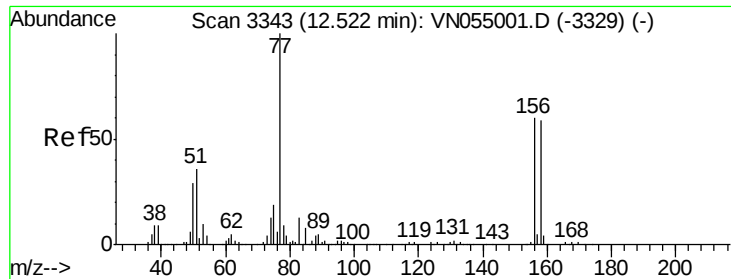
Delta R.T. -0.00 min

Lab File: VN055002.D

Acq: 12 Apr 2019 16:32

Tgt Ion:	75	Resp:	457573
Ion Ratio	Lower	Upper	
75	100		
77	0.0	0.0	0.0





#77

Bromobenzene

Concen: 91.756 ug/l

RT: 12.53 min Scan# 3344

Delta R.T. 0.00 min

Lab File: VN055002.D

Acq: 12 Apr 2019 16:32

Instrument :

MSVOA_N

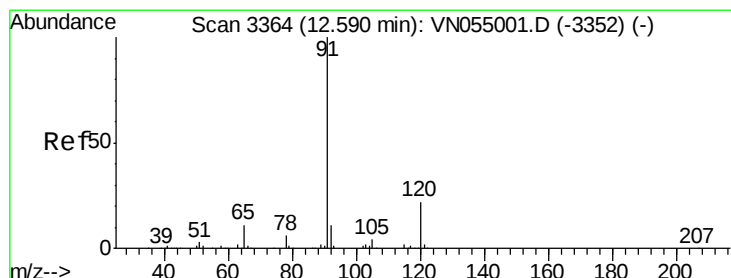
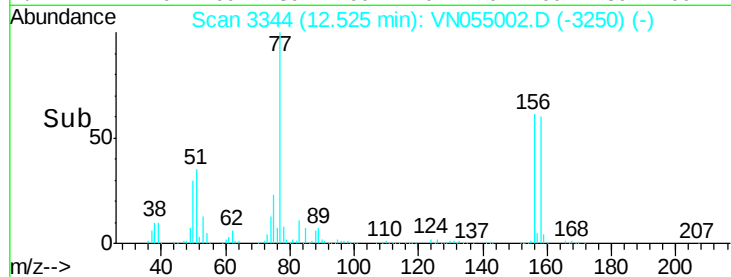
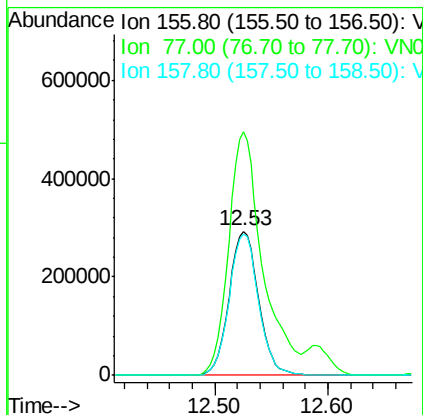
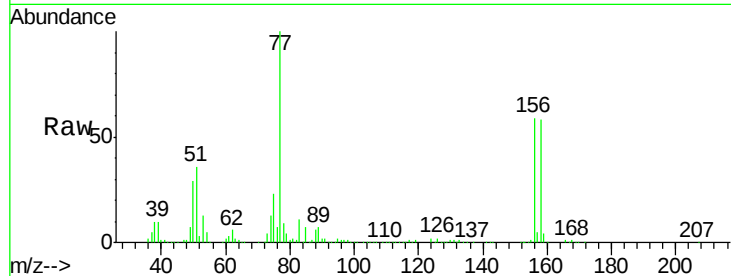
ClientSampleId :

VSTDIC100

Tot Ion	Ratio	Lower	Upper
156	100		
77	195.0	97.2	291.5
158	97.7	48.6	145.9

Manual Integrations
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#78

n-propylbenzene

Concen: 91.497 ug/l

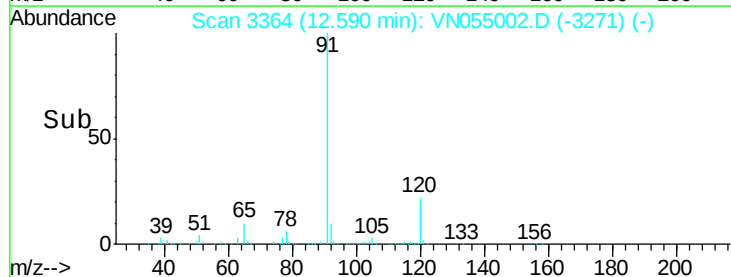
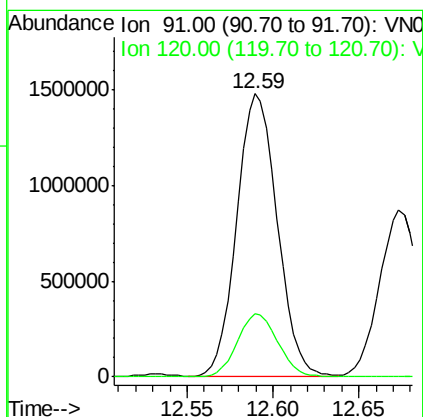
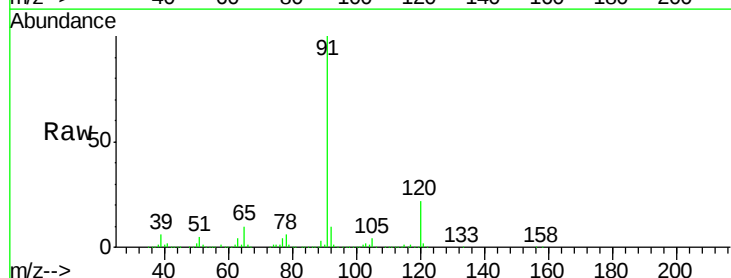
RT: 12.59 min Scan# 3364

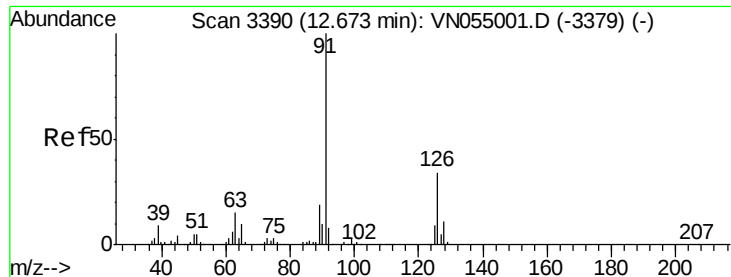
Delta R.T. -0.00 min

Lab File: VN055002.D

Acq: 12 Apr 2019 16:32

Tgt Ion	Ratio	Lower	Upper
91	100		
120	22.5	11.2	33.5





#79

2-Chlorotoluene

Concen: 88.763 ug/l

RT: 12.67 min Scan# 3390

Delta R.T. -0.00 min

Lab File: VN055002.D

Acq: 12 Apr 2019 16:32

Instrument :

MSVOA_N

ClientSampled :

VSTDIC100

Tot Ion: 91 Resp: 1448582

Ion Ratio Lower Upper

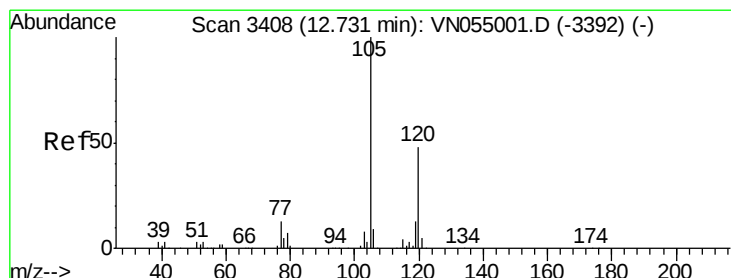
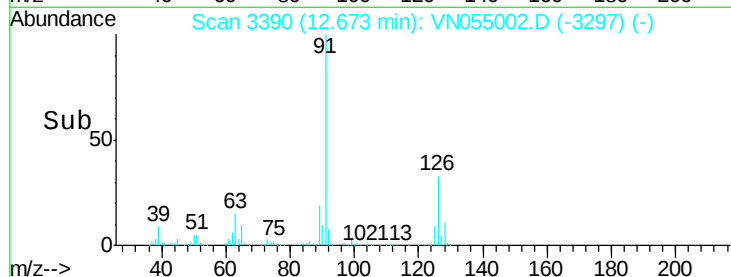
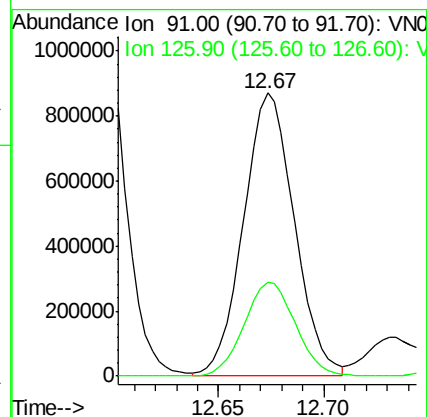
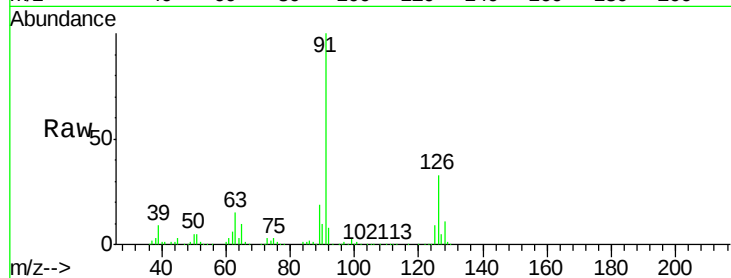
91 100

126 34.0 17.1 51.2

Manual Integrations
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#80

1,3,5-Trimethylbenzene

Concen: 91.218 ug/l

RT: 12.73 min Scan# 3408

Delta R.T. -0.00 min

Lab File: VN055002.D

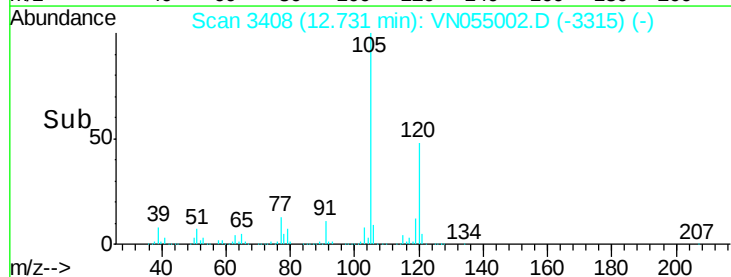
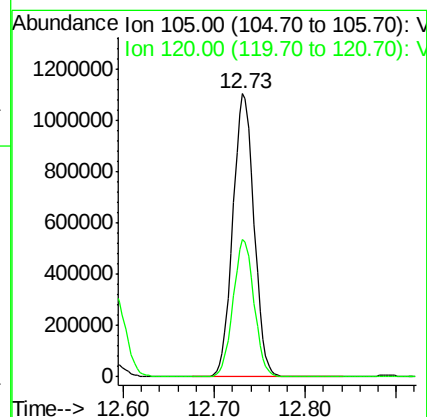
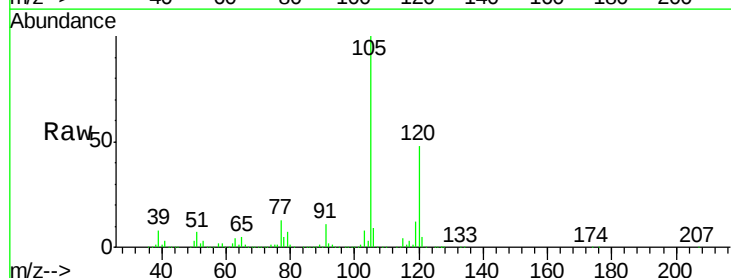
Acq: 12 Apr 2019 16:32

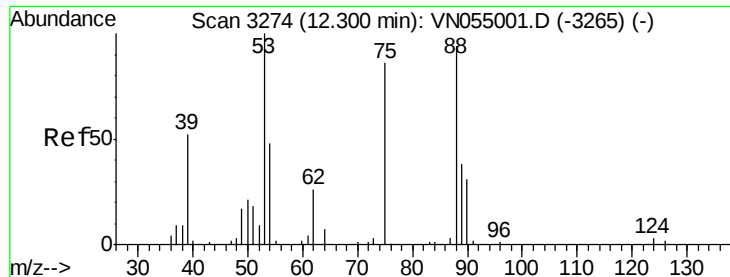
Tgt Ion:105 Resp: 1788695

Ion Ratio Lower Upper

105 100

120 47.9 24.3 72.8





#81

trans-1,4-Dichloro-2-butene

Concen: 112.586 ug/l

RT: 12.30 min Scan# 3274

Delta R.T. -0.00 min

Lab File: VN055002.D

Acq: 12 Apr 2019 16:32

Instrument :

MSVOA_N

ClientSampleId :

VSTDIC100

Tot Ion: 75 Resp: 138156
Ion Ratio Lower Upper

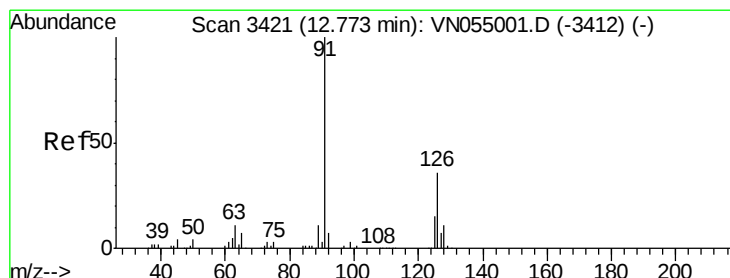
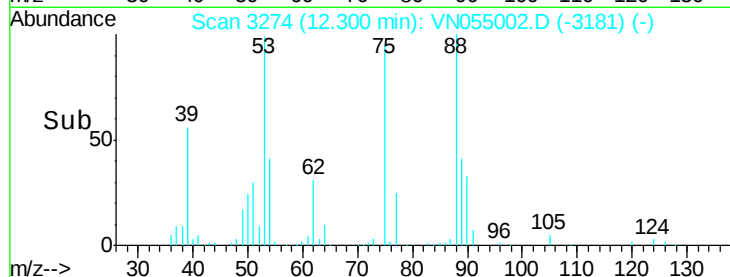
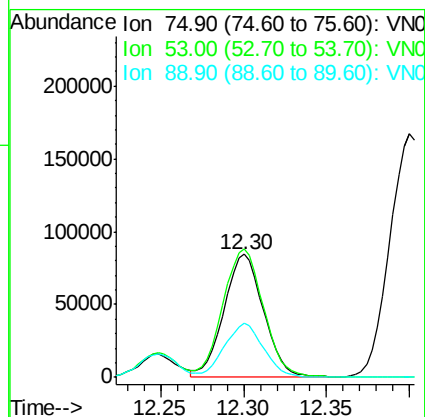
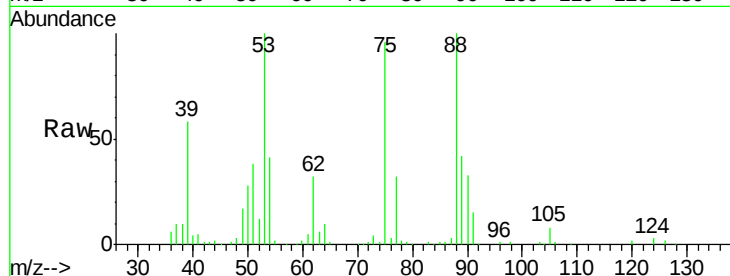
75 100

53 109.3 96.3 144.5

89 44.2 38.6 57.8

Manual Integrations
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#82

4-Chlorotoluene

Concen: 94.166 ug/l

RT: 12.77 min Scan# 3421

Delta R.T. -0.00 min

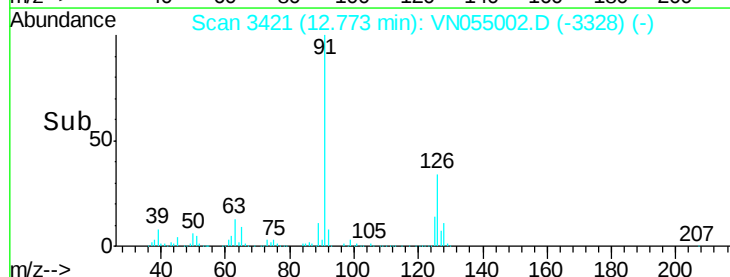
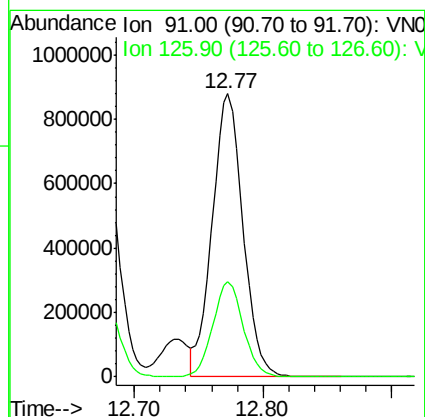
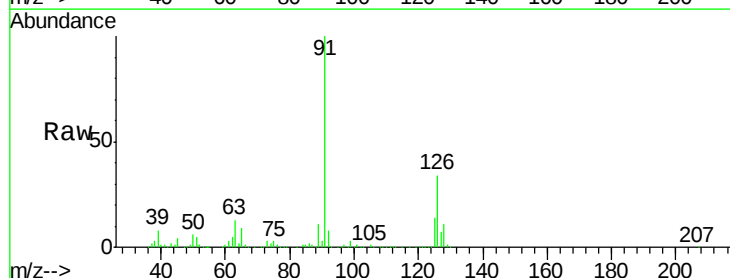
Lab File: VN055002.D

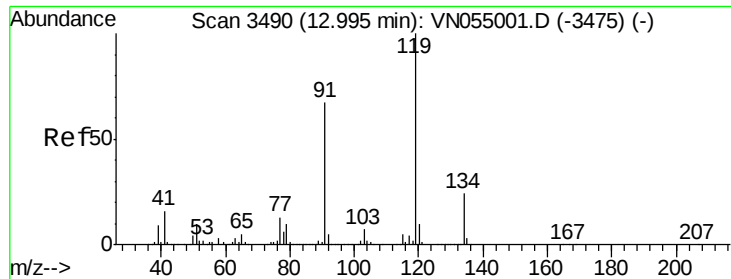
Acq: 12 Apr 2019 16:32

Tgt Ion: 91 Resp: 1453347
Ion Ratio Lower Upper

91 100

126 33.3 16.4 49.2





#83

tert-Butylbenzene

Concen: 89.370 ug/l

RT: 12.99 min Scan# 3489

Delta R.T. -0.00 min

Lab File: VN055002.D

Acq: 12 Apr 2019 16:32

Instrument :

MSVOA_N

ClientSampleId :

VSTDIC100

Tot Ion:119 Resp: 1494690

Ion Ratio Lower Upper

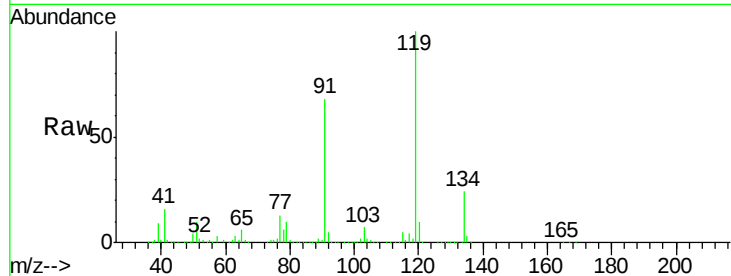
119 100

91 66.8 33.3 99.8

134 26.3 12.3 36.9

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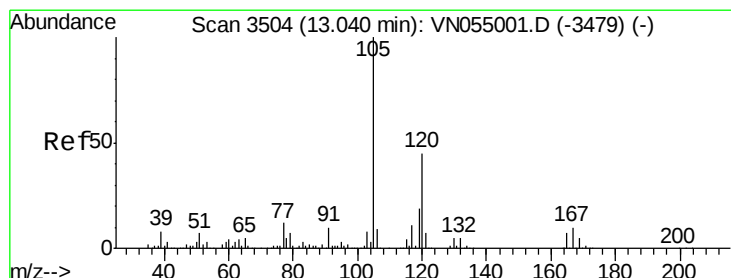
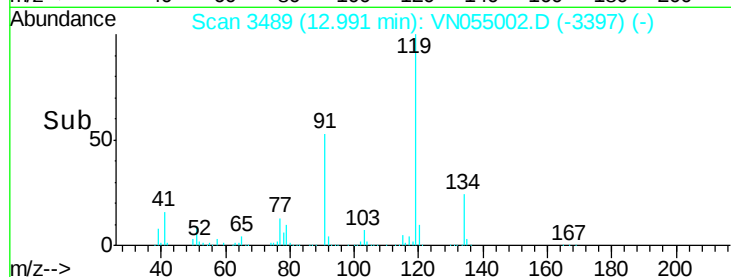
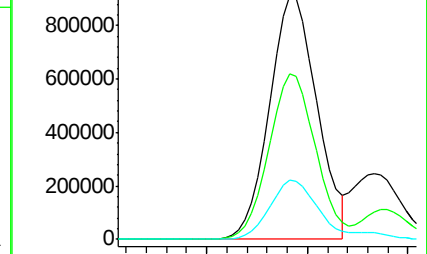
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Abundance Ion 119.00 (118.70 to 119.70): V

Ion 91.00 (90.70 to 91.70): V

Ion 134.00 (133.70 to 134.70): V



#84

1,2,4-Trimethylbenzene

Concen: 92.827 ug/l

RT: 13.04 min Scan# 3504

Delta R.T. -0.00 min

Lab File: VN055002.D

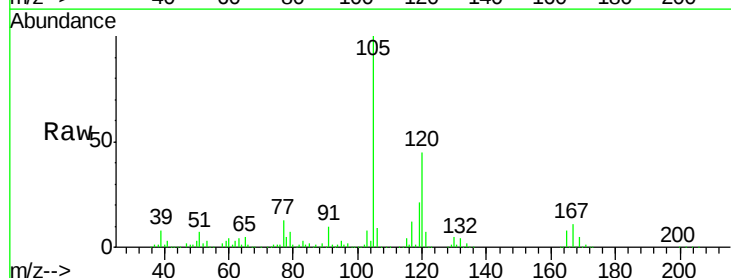
Acq: 12 Apr 2019 16:32

Tgt Ion:105 Resp: 1759682

Ion Ratio Lower Upper

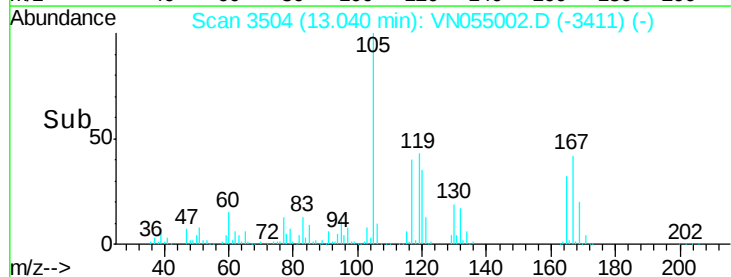
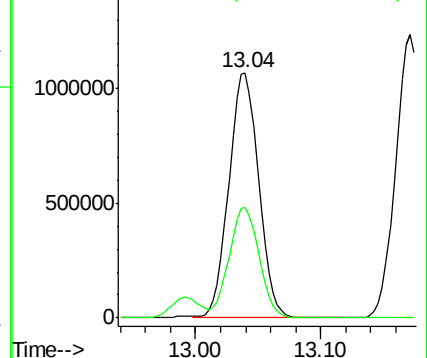
105 100

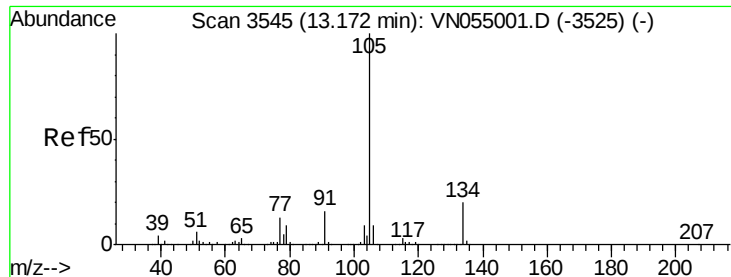
120 45.3 22.4 67.3



Abundance Ion 105.00 (104.70 to 105.70): V

Ion 120.00 (119.70 to 120.70): V





#85

sec-Butylbenzene

Concen: 90.536 ug/l

RT: 13.17 min Scan# 3545

Delta R.T. -0.00 min

Lab File: VN055002.D

Acq: 12 Apr 2019 16:32

Instrument :

MSVOA_N

ClientSampled :

VSTDIC100

Tot Ion:105 Resp: 1958642

Ion Ratio Lower Upper

105 100

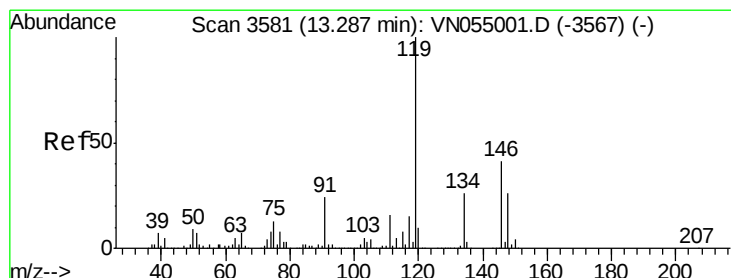
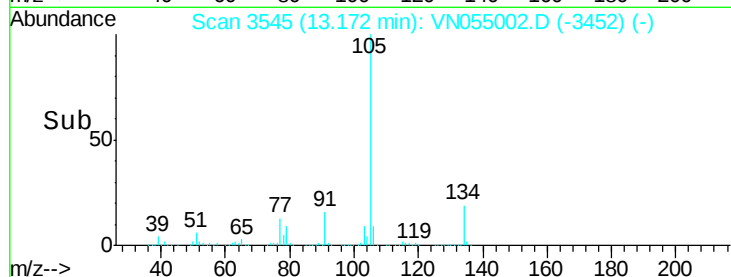
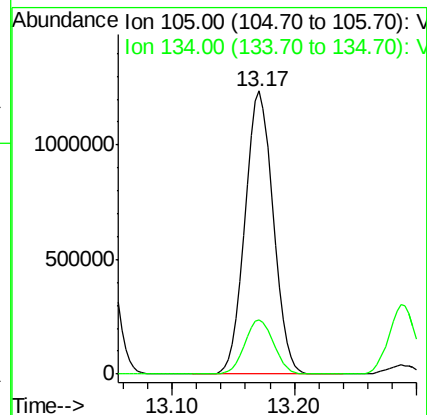
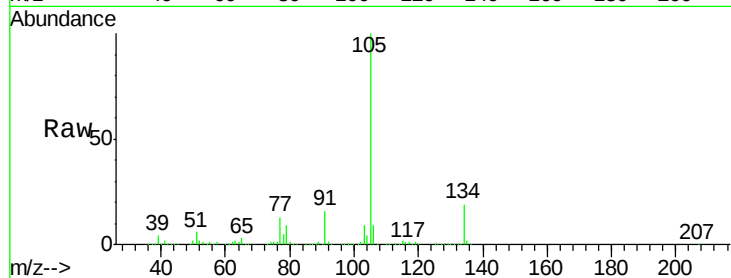
134 19.7 9.8 29.3

Manual Integrations

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#86

p-Isopropyltoluene

Concen: 94.461 ug/l

RT: 13.29 min Scan# 3581

Delta R.T. -0.00 min

Lab File: VN055002.D

Acq: 12 Apr 2019 16:32

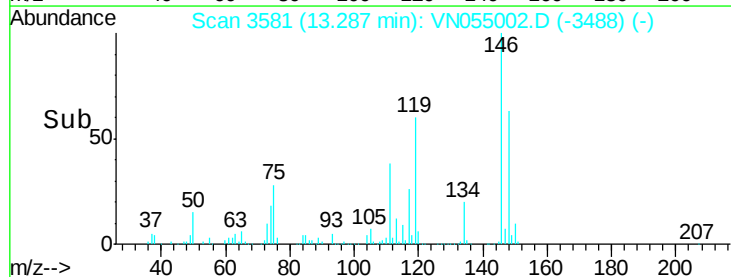
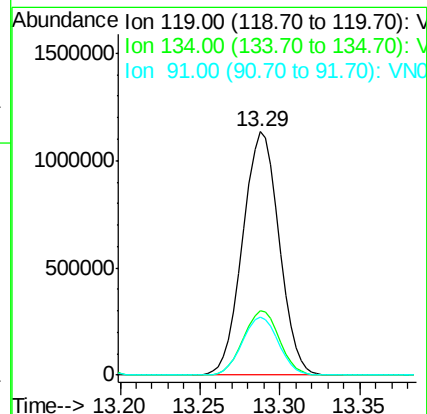
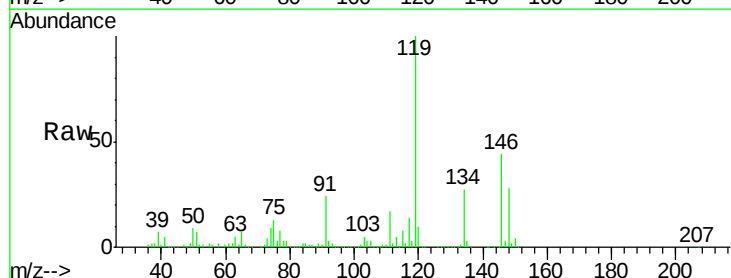
Tgt Ion:119 Resp: 1759049

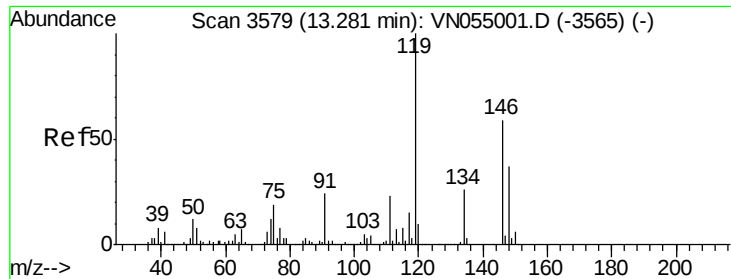
Ion Ratio Lower Upper

119 100

134 26.5 13.2 39.5

91 23.6 11.7 35.1





#87

1,3-Dichlorobenzene

Concen: 95.484 ug/l

RT: 13.28 min Scan# 3579

Delta R.T. -0.00 min

Lab File: VN055002.D

Acq: 12 Apr 2019 16:32

Instrument :

MSVOA_N

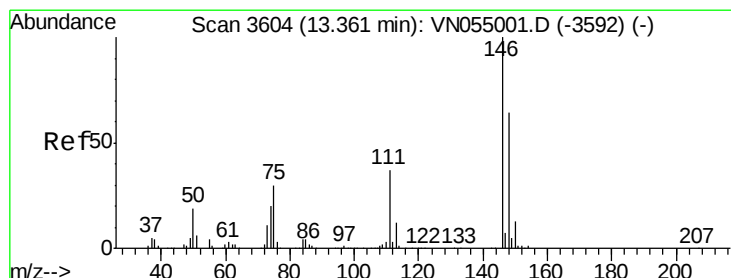
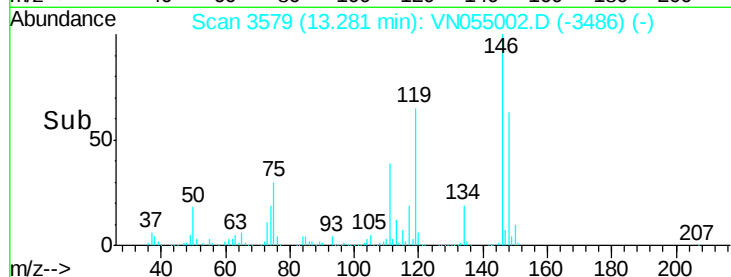
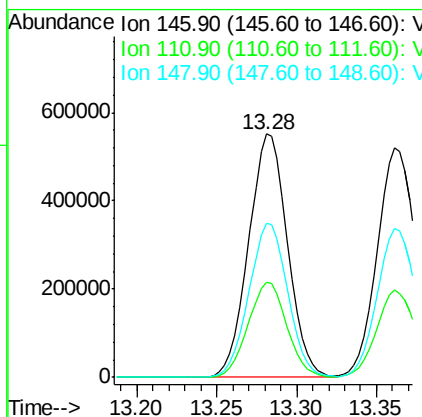
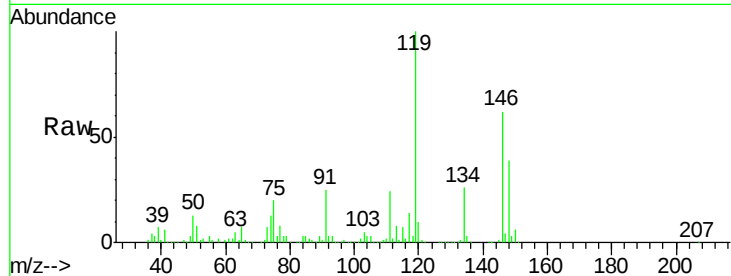
ClientSampleId :

VSTDIC100

Tot Ion:	146	Resp:	917089
Ion Ratio	Lower	Upper	
146	100		
111	38.8	19.5	58.5
148	63.4	31.6	94.7

Manual Integrations
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#88

1,4-Dichlorobenzene

Concen: 96.626 ug/l

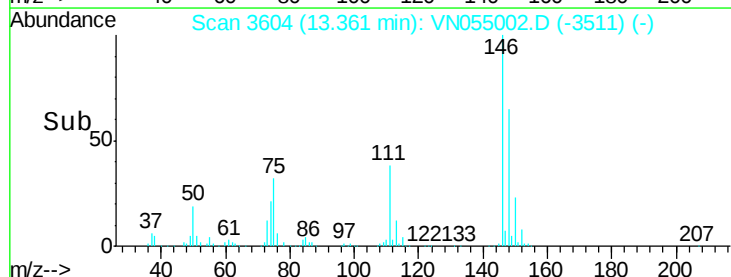
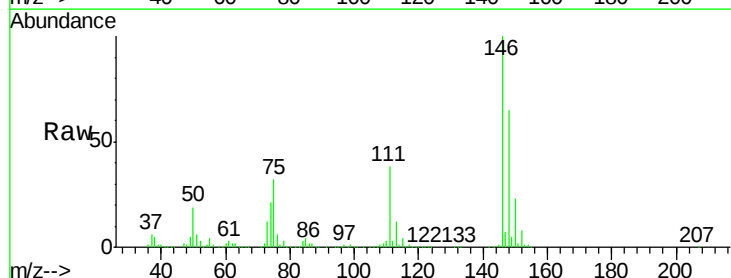
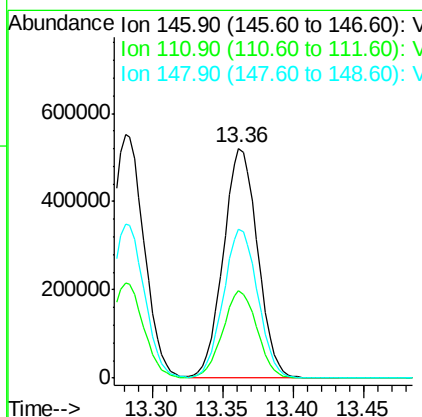
RT: 13.36 min Scan# 3604

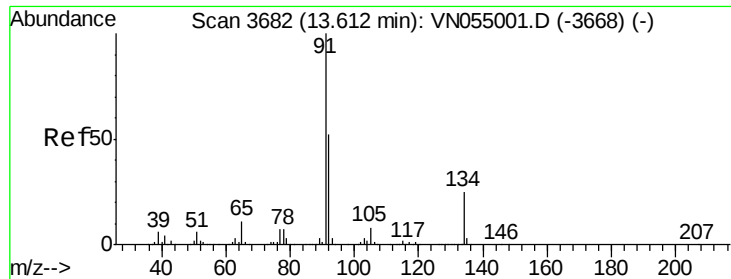
Delta R.T. -0.00 min

Lab File: VN055002.D

Acq: 12 Apr 2019 16:32

Tgt Ion:	146	Resp:	884662
Ion Ratio	Lower	Upper	
146	100		
111	37.8	18.8	56.4
148	65.1	32.4	97.2





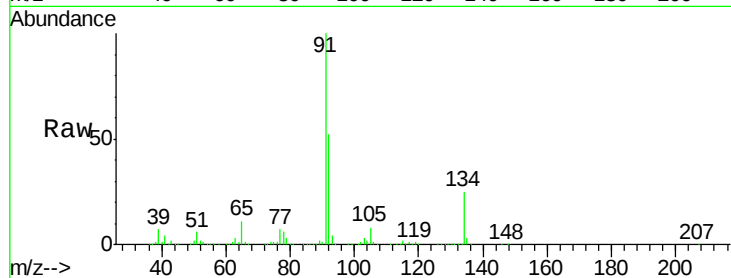
#89
n-Butylbenzene
Concen: 101.958 ug/l
RT: 13.61 min Scan# 3682
Delta R.T. -0.00 min
Lab File: VN055002.D
Acq: 12 Apr 2019 16:32

Instrument :
MSVOA_N
ClientSampled :
VSTDIC100

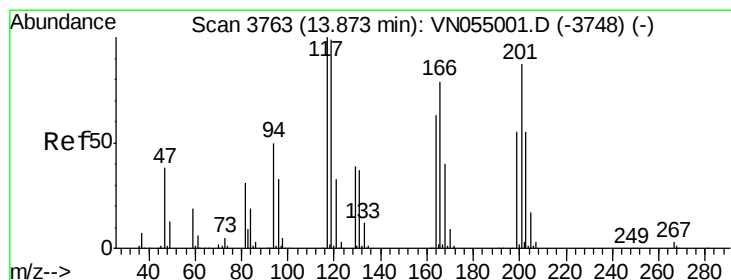
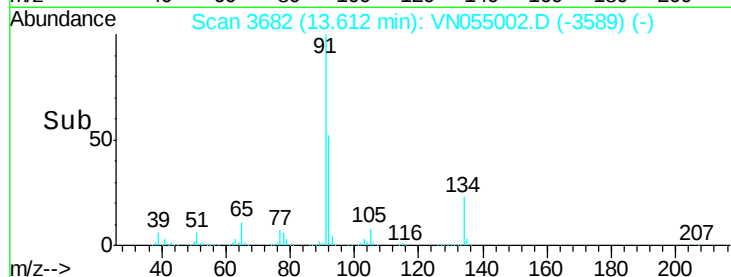
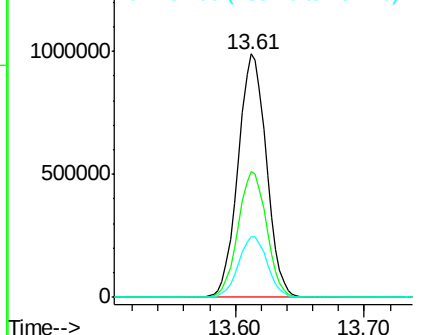
Tot Ion: 91 Resp: 1506769
Ion Ratio Lower Upper
91 100
92 52.2 25.9 77.7
134 25.5 12.8 38.3

Manual Integrations
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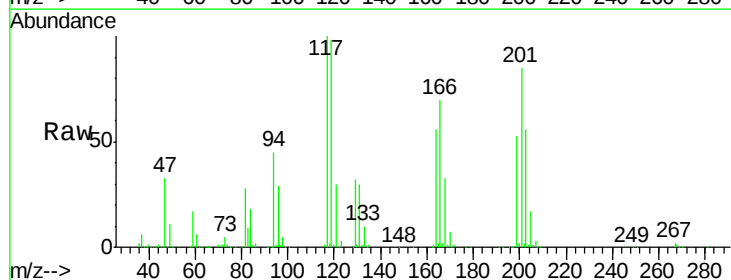


Abundance Ion 91.00 (90.70 to 91.70): VN0
Ion 92.00 (91.70 to 92.70): VN0
Ion 134.00 (133.70 to 134.70): V

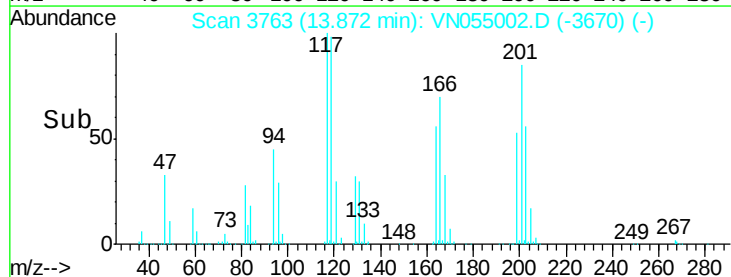
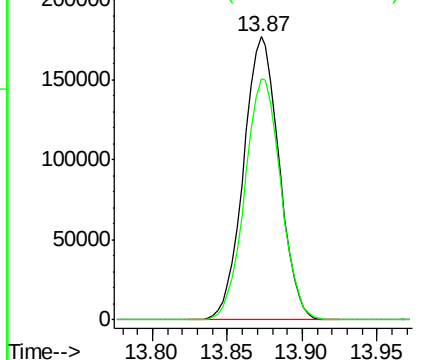


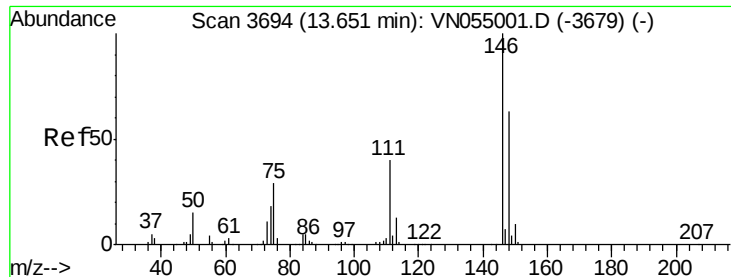
#90
Hexachloroethane
Concen: 94.670 ug/l
RT: 13.87 min Scan# 3763
Delta R.T. -0.00 min
Lab File: VN055002.D
Acq: 12 Apr 2019 16:32

Tgt Ion: 117 Resp: 293231
Ion Ratio Lower Upper
117 100
201 86.3 43.4 130.2



Abundance Ion 116.80 (116.50 to 117.50): V
Ion 200.70 (200.40 to 201.40): V





#91

1,2-Dichlorobenzene

Concen: 93.805 ug/l

RT: 13.65 min Scan# 3694

Delta R.T. -0.00 min

Lab File: VN055002.D

Acq: 12 Apr 2019 16:32

Instrument :

MSVOA_N

ClientSampleId :

VSTDIC100

Tot Ion:146 Resp: 887310

Ion Ratio Lower Upper

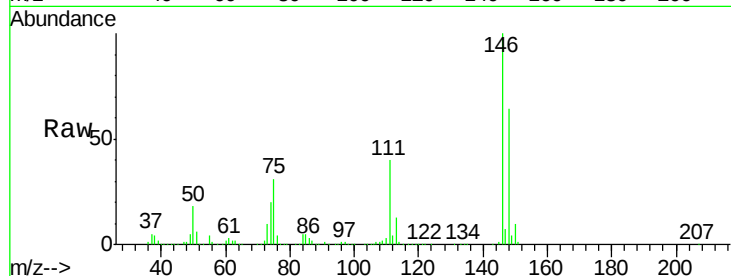
146 100

111 40.2 20.3 60.9

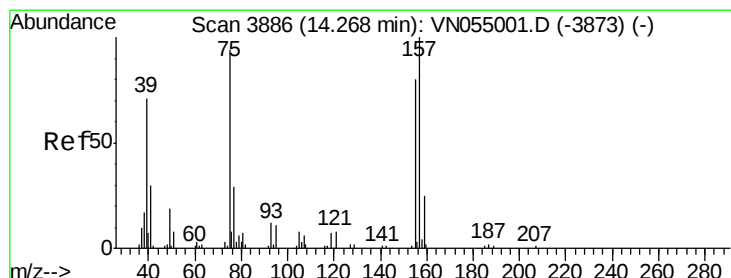
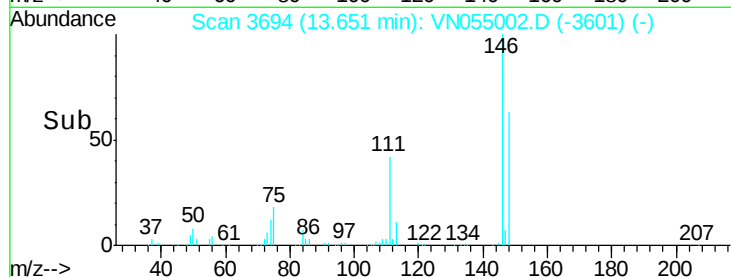
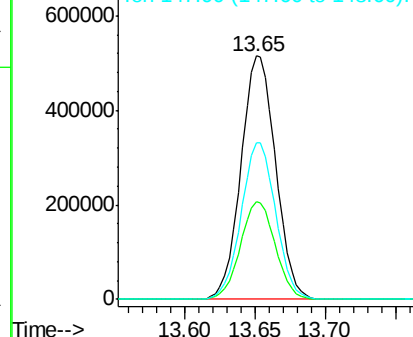
148 63.8 32.2 96.6

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



#92

1,2-Dibromo-3-Chloropropane

Concen: 102.330 ug/l

RT: 14.27 min Scan# 3886

Delta R.T. -0.00 min

Lab File: VN055002.D

Acq: 12 Apr 2019 16:32

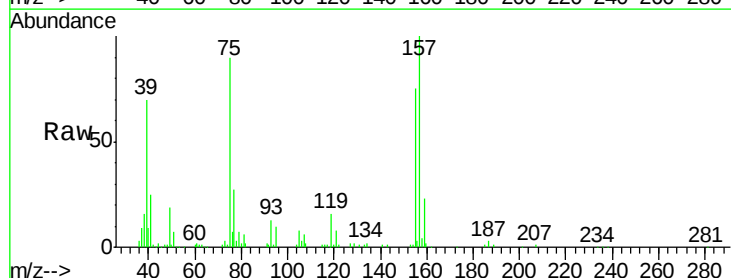
Tgt Ion: 75 Resp: 84817

Ion Ratio Lower Upper

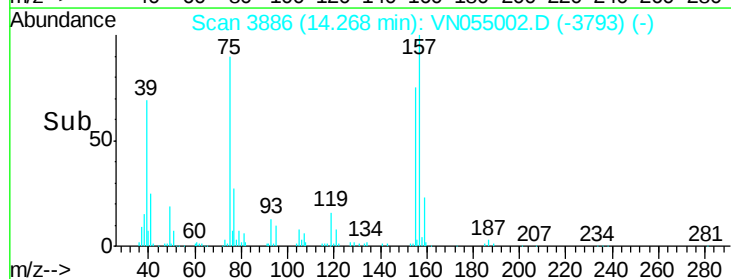
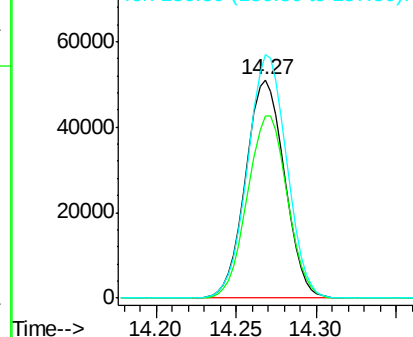
75 100

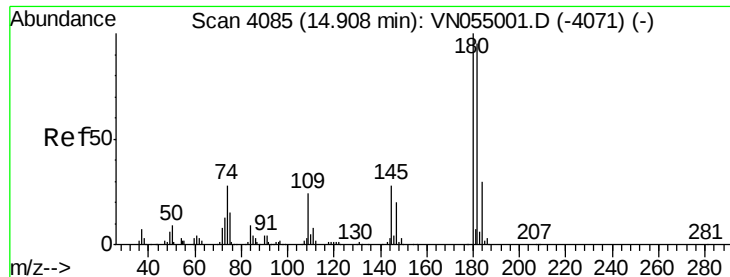
155 85.6 42.0 126.0

157 112.0 52.1 156.4



Abundance Ion 74.90 (74.60 to 75.60): V
Ion 154.80 (154.50 to 155.50): V
Ion 156.80 (156.50 to 157.50): V





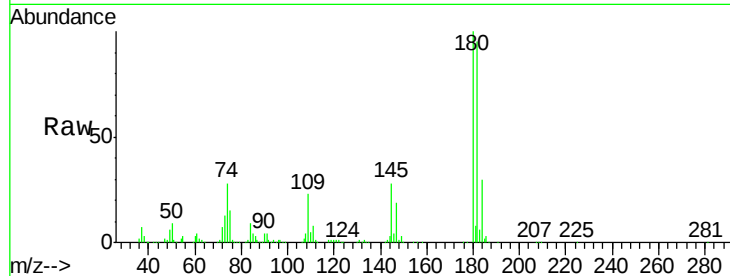
#93
 1,2,4-Trichlorobenzene
 Concen: 114.175 ug/l
 RT: 14.91 min Scan# 4085
 Delta R.T. -0.00 min
 Lab File: VN055002.D
 Acq: 12 Apr 2019 16:32

Instrument :
 MSVOA_N
 ClientSampleId :
 VSTDIC100

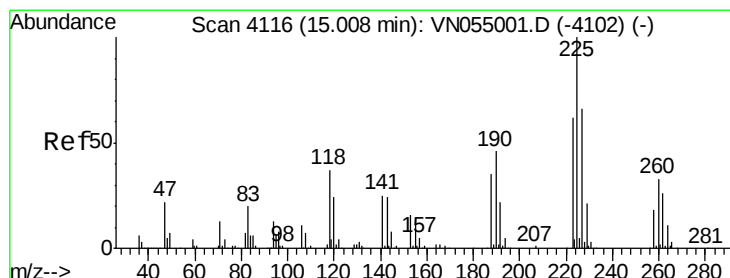
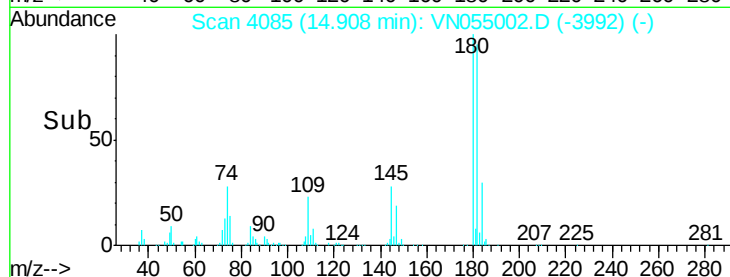
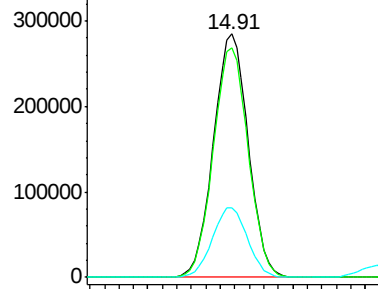
Tot Ion	Ratio	Resp	Lower	Upper
180	100	474840		
182	94.9	47.5	142.6	
145	28.8	14.2	42.8	

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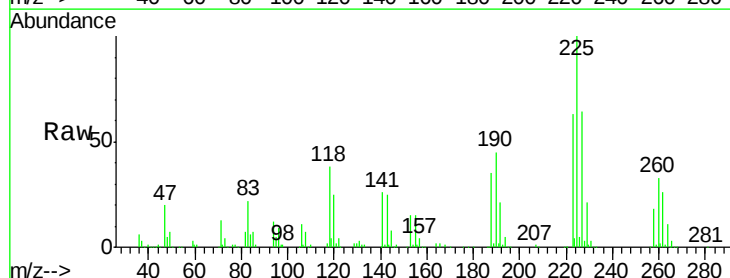


Abundance Ion 179.80 (179.50 to 180.50): V
 Ion 181.80 (181.50 to 182.50): V
 Ion 144.80 (144.50 to 145.50): V

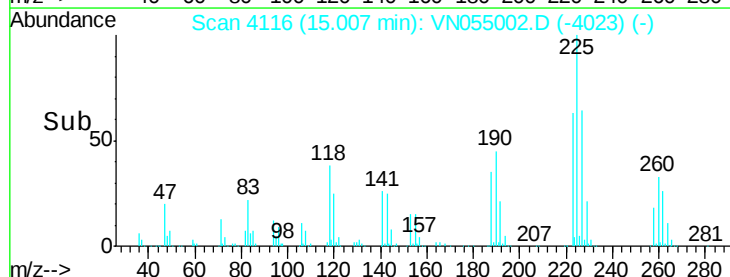
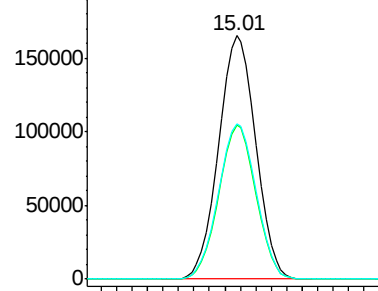


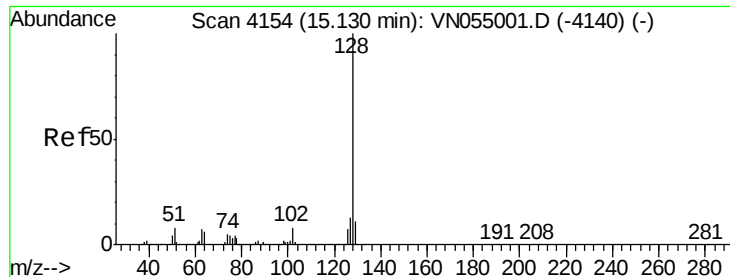
#94
 Hexachlorobutadiene
 Concen: 87.254 ug/l
 RT: 15.01 min Scan# 4116
 Delta R.T. -0.00 min
 Lab File: VN055002.D
 Acq: 12 Apr 2019 16:32

Tgt Ion	Ratio	Resp	Lower	Upper
225	100	276545		
223	63.1	31.4	94.0	
227	64.8	32.6	97.7	



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: 120.667 ug/l

RT: 15.13 min Scan# 4154

Delta R.T. -0.00 min

Lab File: VN055002.D

Acq: 12 Apr 2019 16:32

Instrument :

MSVOA_N

ClientSampleId :

VSTDIC100

Tot Ion:128 Resp: 1108322

Ion Ratio Lower Upper

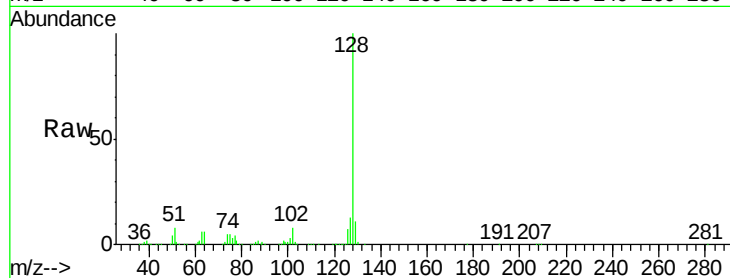
128 100

127 12.9 10.1 15.1

129 10.8 8.8 13.2

Manual Integrations
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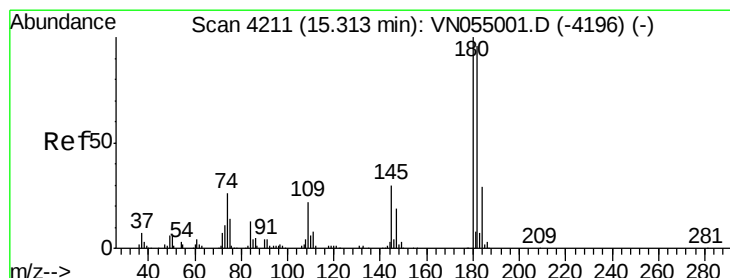
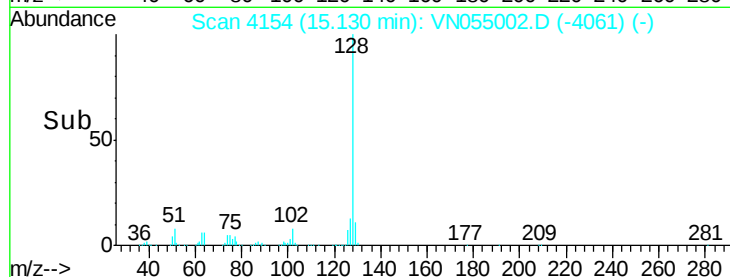
Abundance Ion 128.00 (127.70 to 128.70): V

Ion 127.00 (126.70 to 127.70): V

Ion 129.00 (128.70 to 129.70): V

15.13

Time-->



#96

1,2,3-Trichlorobenzene

Concen: 108.140 ug/l

RT: 15.31 min Scan# 4211

Delta R.T. -0.00 min

Lab File: VN055002.D

Acq: 12 Apr 2019 16:32

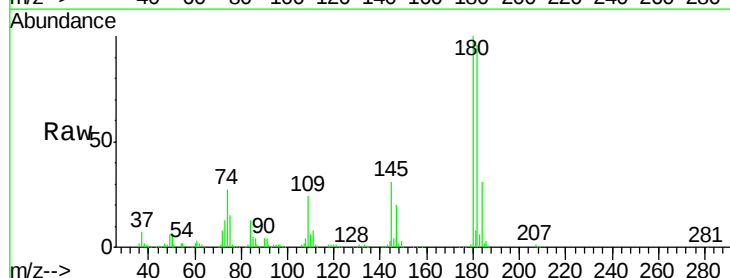
Tgt Ion:180 Resp: 467278

Ion Ratio Lower Upper

180 100

182 95.6 48.0 144.0

145 30.8 15.3 45.9



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

15.31

Time-->

