

Data Path : Z:\VOASRV\HPCHEM1\MSVOA N\DATA\VN081019\
 Data File : VN057168.D
 Acq On : 10 Aug 2019 11:26
 Operator : JC/SP
 Sample : VSTDICC150
 Misc : 5.00mL/MSVOA N/WATER
 ALS Vial : 6 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 VSTDICC150

Manual Integrations
 APPROVED

MMDadoda
 8/12/2019 3:55:37 PM

Quant Time: Aug 11 03:47:35 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA N\METHODS\624N081019W.M
 Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS
 QLast Update : Sun Aug 11 03:32:59 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	6.59	128	167688	30.00	ug/l	0.00
28) 1,4-Difluorobenzene	8.01	114	948193	30.00	ug/l	0.00
57) Chlorobenzene-d5	10.90	117	869042	30.00	ug/l	0.00

System Monitoring Compounds

27) 1,2-Dichloroethane-d4	7.44	65	333170	30.48	ug/l	0.00
Spiked Amount	30.000	Range	50 - 169	Recovery	=	101.60%
60) 4-Bromofluorobenzene	11.92	95	414941	32.07	ug/l	0.00
Spiked Amount	30.000	Range	56 - 143	Recovery	=	106.90%
63) Toluene-d8	9.56	98	1161616	28.96	ug/l	0.00
Spiked Amount	30.000	Range	66 - 137	Recovery	=	96.53%

Target Compounds

					Ovalue
2) Dichlorodifluoromethane	1.82	85	1434477	156.833	ug/l 99
3) Chloromethane	2.00	50	1666618	157.300	ug/l 99
4) Vinyl Chloride	2.11	62	1694745	157.231	ug/l 98
5) Bromomethane	2.42	94	1177378	153.339	ug/l 99
6) Chloroethane	2.54	64	1080716	154.619	ug/l 99
7) Trichlorofluoromethane	2.82	101	2493668	155.156	ug/l 100
8) Diethyl Ether	3.14	74	936253	156.299	ug/l 99
9) 1,1,2-Trichlorotrifluoroet	3.44	101	1487958	153.053	ug/l 99
10) 1,1-Dichloroethene	3.43	96	1495801	155.616	ug/l 98
11) Methyl Iodide	3.63	142	2493459	166.247	ug/l 98
12) Methyl Acetate	3.89	43	1492175	149.025	ug/l 98
13) Acrolein	3.31	56	850114	769.854	ug/l 98
14) Acrylonitrile	4.45	53	3343648	800.390	ug/l 99
15) Acetone	3.48	58	983420	709.309	ug/l 94
16) Carbon Disulfide	3.72	76	4170204	160.816	ug/l 100
17) Allyl chloride	3.91	41	2179546	153.807	ug/l 98
18) Methylene Chloride	4.10	84	1657395	152.092	ug/l 97
19) trans-1,2-Dichloroethene	4.50	96	1592237	154.513	ug/l 98
20) Diisopropyl ether	5.32	45	4421438	152.990	ug/l 89
21) 1,1-Dichloroethane	5.25	63	2734243	151.904	ug/l 99
22) cis-1,2-Dichloroethene	6.21	96	1809834	154.307	ug/l 98
23) tert-Butyl Alcohol	4.24	59	1101597	799.113	ug/l 100
24) Methyl tert-Butyl Ether	4.49	73	4477271	158.400	ug/l 99
25) Chloroform	6.76	83	2811956	151.930	ug/l 100
26) Cyclohexane	7.07	56	2399221	155.921	ug/l # 99
29) 1,1-Dichloropropene	7.20	75	2181809	153.010	ug/l 100
30) 2-Butanone	6.20	43	4224187	752.459	ug/l 100
31) 2,2-Dichloropropane	6.21	77	2302695	151.042	ug/l 100
32) 1,1,1-Trichloroethane	6.98	97	2522866	152.778	ug/l 99
33) Carbon Tetrachloride	7.18	117	2278932	155.032	ug/l 96
34) Benzene	7.46	78	6535457	150.148	ug/l # 95
35) Methacrylonitrile	6.55	41	905805	159.647	ug/l 93
36) 1,2-Dichloroethane	7.54	62	2081246	149.674	ug/l 99
37) Trichloroethene	8.27	130	1856516	150.097	ug/l 99
38) Methylcyclohexane	8.53	83	2647751	155.605	ug/l 99
39) 1,2-Dichloropropane	8.56	63	1694632	87.986	ug/l 97
40) Dibromomethane	8.65	93	1093374	151.378	ug/l 99

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Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
41) Bromodichloromethane	8.85	83	2247105	156.462	ug/l	97
42) Vinyl Acetate	5.26	43	18079954	774.698	ug/l	99
43) Ethyl Acetate	6.28	43	1649427	159.308	ug/l	100
44) Isopropyl Acetate	7.56	43	2917008	155.169	ug/l	97
45) 1,4-Dioxane	8.64	88	533093	3038.786	ug/l	97
46) Methyl methacrylate	8.64	41	1386493	161.763	ug/l	97
47) n-amyl Acetate	11.58	43	2484400	179.632	ug/l	98
48) t-1,3-Dichloropropene	9.85	75	2499427	163.208	ug/l	100
49) cis-1,3-Dichloropropene	9.30	75	2755909	175.151	ug/l	99
50) 1,1,2-Trichloroethane	10.04	97	1575685	152.636	ug/l	97
51) Ethyl methacrylate	9.90	69	2407300	165.243	ug/l	99
52) 1,3-Dichloropropane	10.19	76	2611596	151.775	ug/l	99
53) Dibromochloromethane	10.39	129	1876041	161.279	ug/l	99
54) 1,2-Dibromoethane	10.50	107	1698167	157.588	ug/l	98
55) 2-Chloroethyl vinyl ether	9.15	63	3782210	919.487	ug/l	100
56) Bromoform	11.64	173	1453398	169.083	ug/l	99
58) 4-Methyl-2-Pentanone	9.45	43	8449434	756.841	ug/l	99
59) 2-Hexanone	10.24	43	6036814	752.125	ug/l	98
61) Tetrachloroethene	10.11	164	1766519	132.439	ug/l	97
62) Toluene	9.63	91	7198748	145.530	ug/l	100
64) Chlorobenzene	10.93	112	4593270	150.974	ug/l	100
65) 1,1,1,2-Tetrachloroethane	11.01	131	1736342	148.822	ug/l	98
66) Ethyl Benzene	11.01	91	8085213	152.480	ug/l	100
67) m/p-Xylenes	11.13	106	6128515	306.483	ug/l	99
68) o-Xylene	11.46	106	2968147	152.890	ug/l	99
69) Styrene	11.47	104	5115400	164.324	ug/l	99
70) Isopropylbenzene	11.76	105	7981490	152.705	ug/l	99
71) 1,1,2,2-Tetrachloroethane	12.02	83	2122299	148.255	ug/l	100
72) 1,2,3-Trichloropropane	12.08	75	1930770m	152.115	ug/l	
73) Bromobenzene	12.04	156	2157581	159.194	ug/l	96
74) n-propylbenzene	12.11	91	9046495	164.871	ug/l	100
75) 2-Chlorotoluene	12.20	91	5325224	156.910	ug/l	99
76) 1,3,5-Trimethylbenzene	12.26	105	6857327	162.297	ug/l	88
77) t-1,4-Dichloro-2-butene	11.82	75	749421	177.739	ug/l	90
78) 4-Chlorotoluene	12.30	91	5345576	169.594	ug/l	99
79) tert-butylbenzene	12.52	119	5905816	152.255	ug/l	98
80) 1,2,4-Trimethylbenzene	12.57	105	6729709	162.149	ug/l	99
81) sec-Butylbenzene	12.70	105	7874340	161.004	ug/l	99
82) p-Isopropyltoluene	12.82	119	7273514	167.017	ug/l	100
83) 1,3-Dichlorobenzene	12.81	146	3601267	174.506	ug/l	98
84) 1,4-Dichlorobenzene	12.90	146	3525185	183.635	ug/l	99
85) n-Butylbenzene	13.15	91	5855062	185.944	ug/l	99
86) Hexachloroethane	13.41	117	1290344	162.949	ug/l	99
87) 1,2-Dichlorobenzene	13.19	146	3444289	168.296	ug/l	99
88) 1,2-Dibromo-3-Chloropropan	13.81	75	365724	182.091	ug/l	95
89) 1,2,4-Trichlorobenzene	14.45	180	1766501	215.435	ug/l	98
90) Hexachlorobutadiene	14.55	225	1325735	150.258	ug/l	99
91) Naphthalene	14.67	128	3651523	235.050	ug/l	100
92) 1,2,3-Trichlorobenzene	14.83	180	1580535	209.780	ug/l	97

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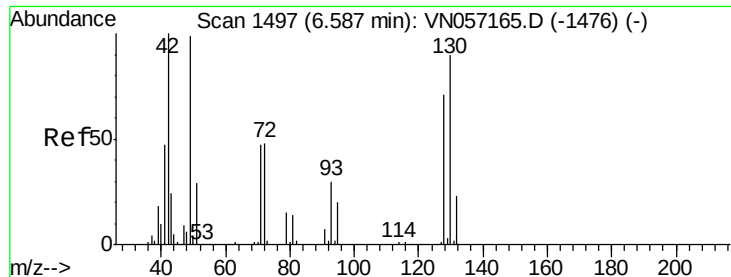
Manual Integrations
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Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
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(#) = qualifier out of range (m) = manual integration (+) = signals summed



#1

Bromochloromethane

Concen: 30.000 ug/l

RT: 6.59 min Scan# 1497

Delta R.T. -0.00 min

Lab File: VN057168.D

Acq: 10 Aug 2019 11:26

Instrument :

MSVOA_N

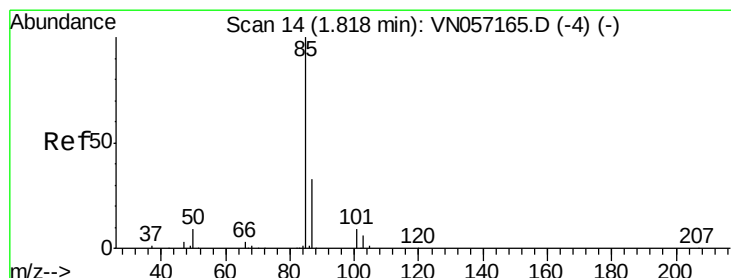
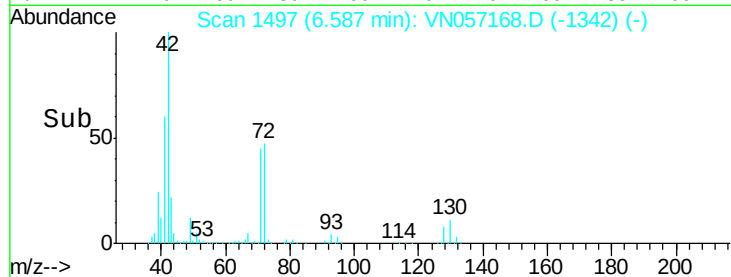
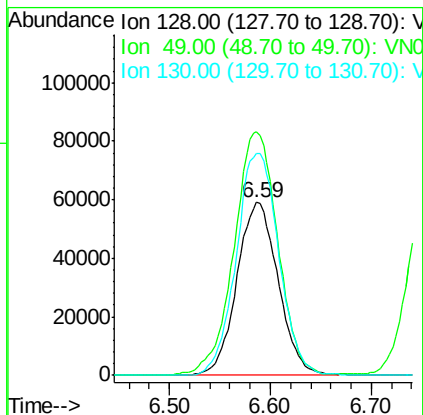
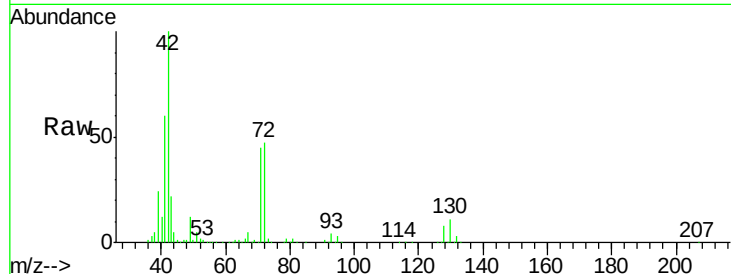
ClientSampleId :

VSTDIC150

Tot Ion:	128	Resp:	167688
Ion	Ratio	Lower	Upper
128	100		
49	149.4	0.0	361.0
130	132.7	0.0	329.5

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#2

Dichlorodifluoromethane

Concen: 156.833 ug/l

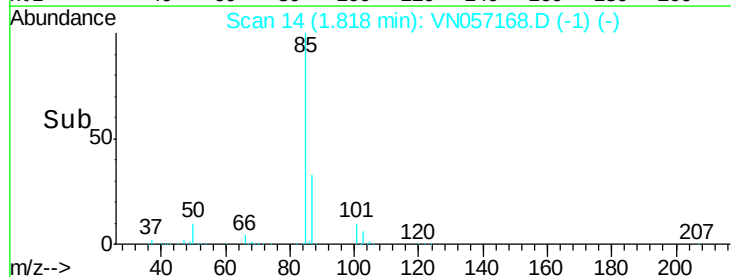
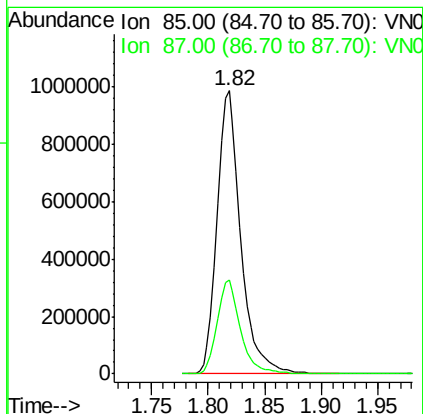
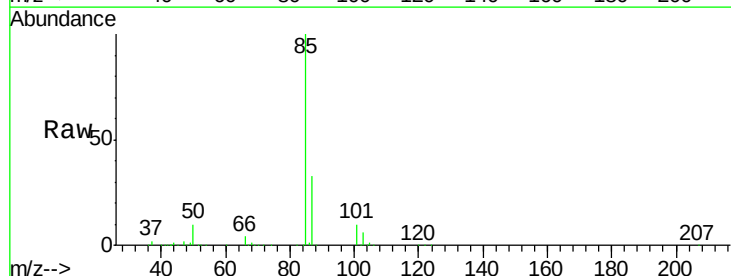
RT: 1.82 min Scan# 14

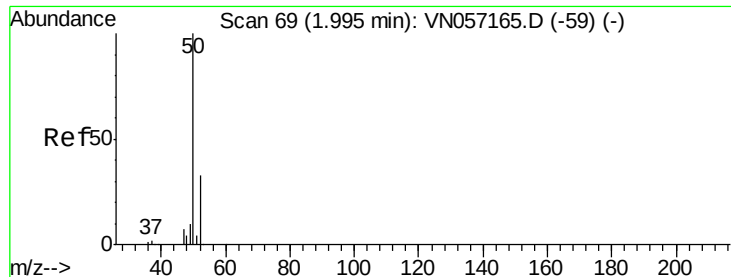
Delta R.T. -0.00 min

Lab File: VN057168.D

Acq: 10 Aug 2019 11:26

Tgt Ion:	85	Resp:	1434477
Ion	Ratio	Lower	Upper
85	100		
87	33.3	16.5	49.5





#3

Chloromethane

Concen: 157.300 ug/l

RT: 2.00 min Scan# 69

Delta R.T. -0.00 min

Lab File: VN057168.D

Acq: 10 Aug 2019 11:26

Instrument :

MSVOA_N

ClientSampleId :

VSTDIC150

Tot Ion: 50 Resp: 1666618

Ion Ratio Lower Upper

50 100

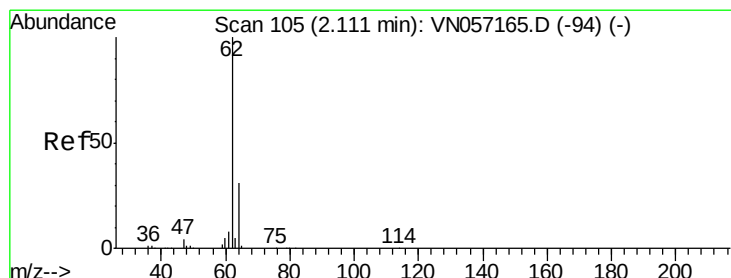
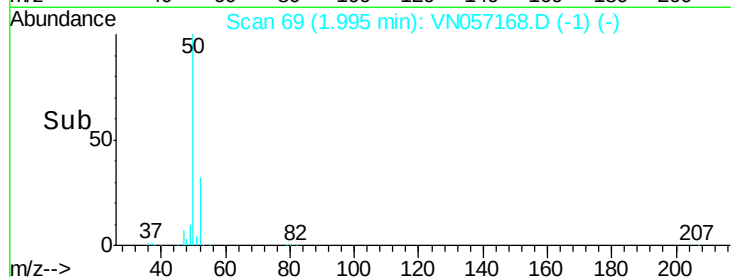
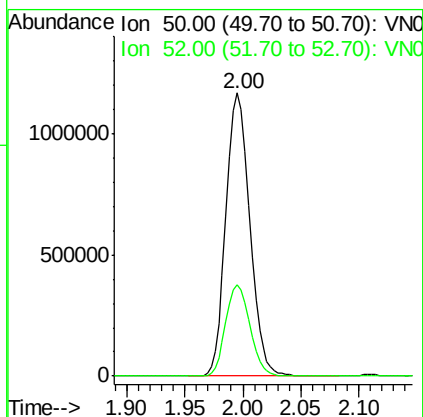
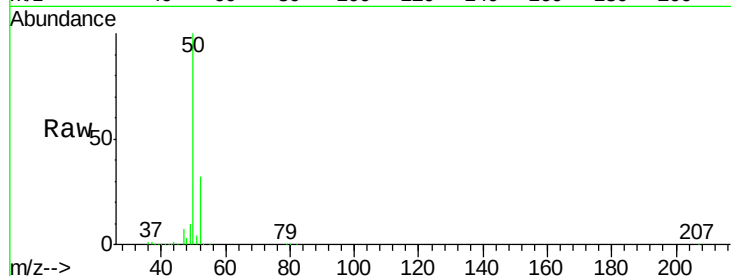
52 32.3 26.5 39.7

Manual Integrations

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#4

Vinyl Chloride

Concen: 157.231 ug/l

RT: 2.11 min Scan# 105

Delta R.T. -0.00 min

Lab File: VN057168.D

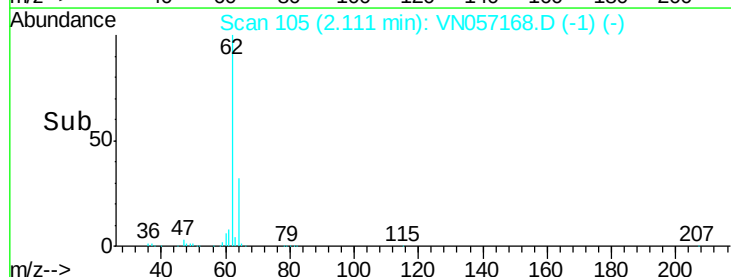
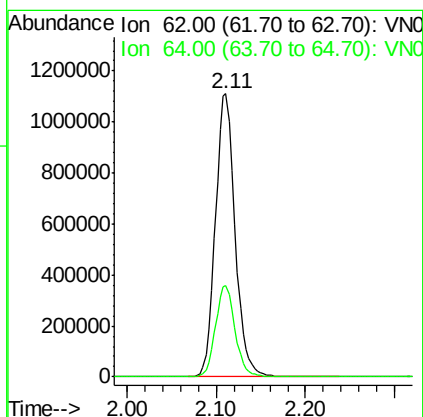
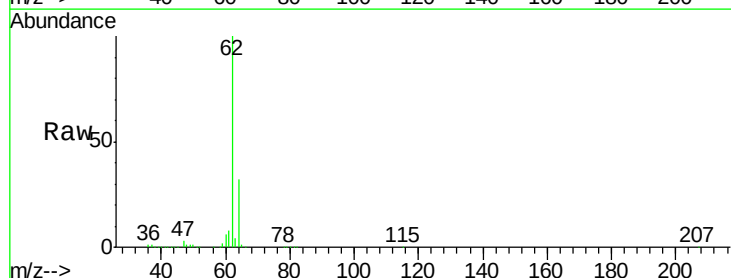
Acq: 10 Aug 2019 11:26

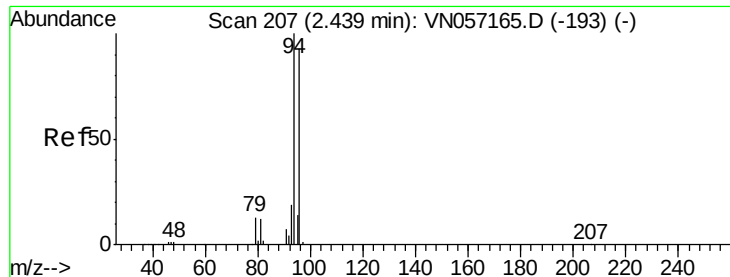
Tgt Ion: 62 Resp: 1694745

Ion Ratio Lower Upper

62 100

64 32.1 25.0 37.4





#5

Bromomethane

Concen: 153.339 ug/l

RT: 2.42 min Scan# 201

Delta R.T. -0.02 min

Lab File: VN057168.D

Acq: 10 Aug 2019 11:26

Instrument :

MSVOA_N

ClientSampleId :

VSTDIC150

Tot Ion: 94 Resp: 1177378

Ion Ratio Lower Upper

94 100

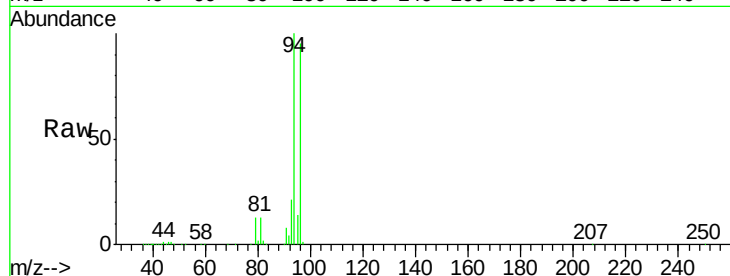
96 94.6 74.7 112.1

Manual Integrations

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Abundance Ion 94.00 (93.70 to 94.70): VN0

Ion 96.00 (95.70 to 96.70): VN0

2.42

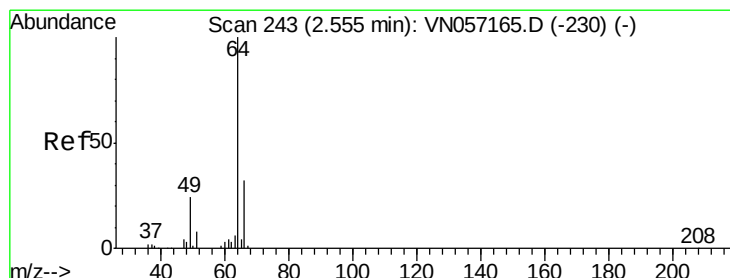
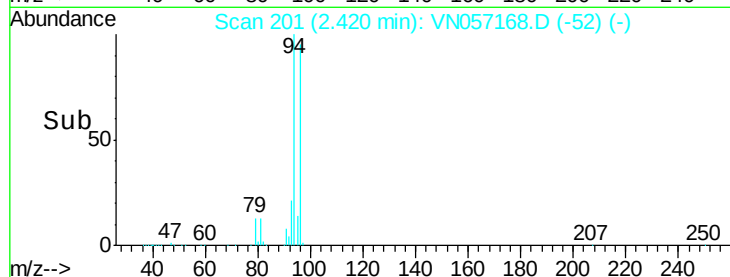
600000

400000

200000

0

Time-->



#6

Chloroethane

Concen: 154.619 ug/l

RT: 2.54 min Scan# 240

Delta R.T. -0.01 min

Lab File: VN057168.D

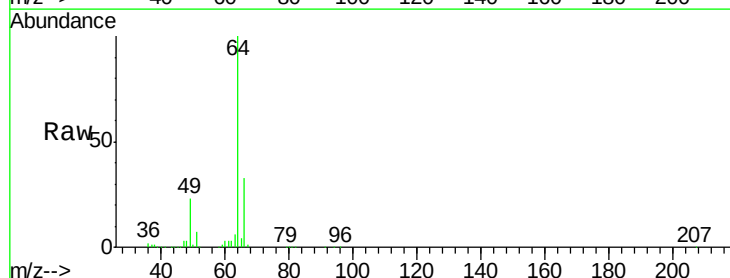
Acq: 10 Aug 2019 11:26

Tgt Ion: 64 Resp: 1080716

Ion Ratio Lower Upper

64 100

66 32.9 25.8 38.6



Abundance Ion 64.00 (63.70 to 64.70): VN0

Ion 66.00 (65.70 to 66.70): VN0

2.54

600000

500000

400000

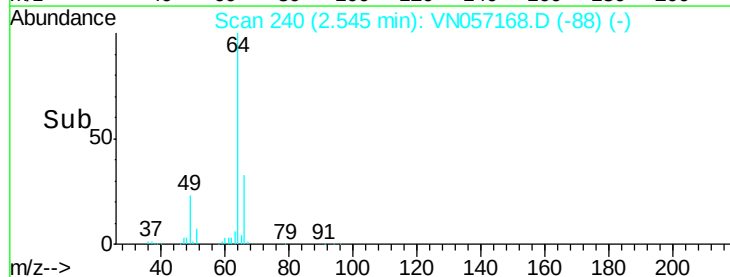
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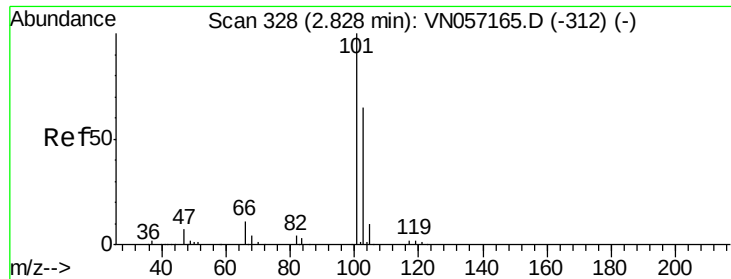
200000

100000

0

Time-->





#7

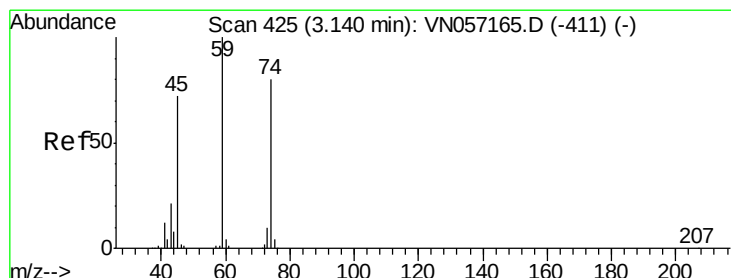
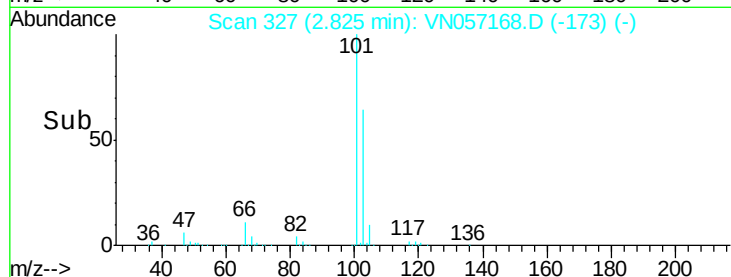
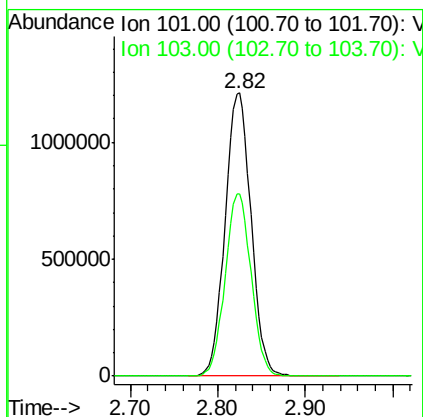
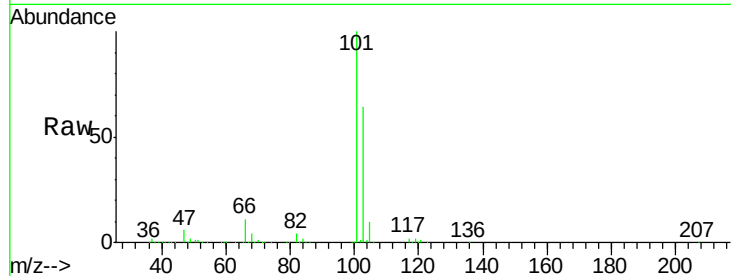
Trichlorofluoromethane
 Concen: 155.156 ug/l
 RT: 2.82 min Scan# 327
 Delta R.T. -0.00 min
 Lab File: VN057168.D
 Acq: 10 Aug 2019 11:26

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 VSTDIC150

Tot Ion:101 Resp: 2493668
 Ion Ratio Lower Upper
 101 100
 103 64.5 51.8 77.8

Manual Integrations
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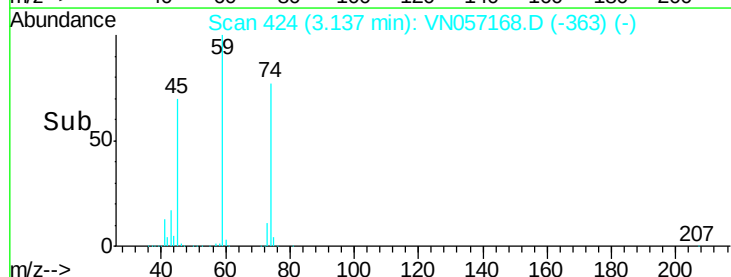
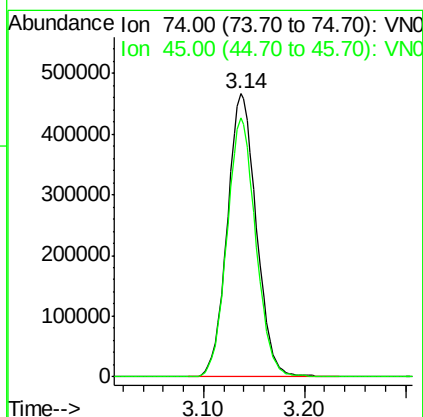
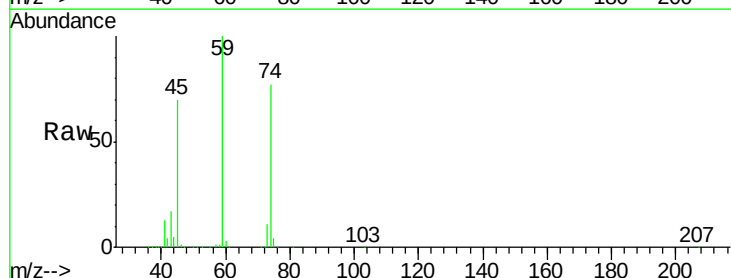
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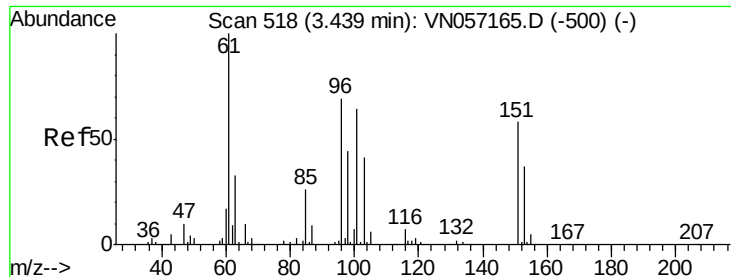


#8

Diethyl Ether
 Concen: 156.299 ug/l
 RT: 3.14 min Scan# 424
 Delta R.T. -0.00 min
 Lab File: VN057168.D
 Acq: 10 Aug 2019 11:26

Tgt Ion: 74 Resp: 936253
 Ion Ratio Lower Upper
 74 100
 45 90.4 17.9 161.5





#9

1,1,2-Trichlorotrifluoroethane

Concen: 153.053 ug/l

RT: 3.44 min Scan# 517

Delta R.T. -0.00 min

Lab File: VN057168.D

Acq: 10 Aug 2019 11:26

Instrument :

MSVOA_N

ClientSampleId :

VSTDIC150

Tot Ion:101 Resp: 1487958

Ion Ratio Lower Upper

101 100

85 40.9 0.0 84.4

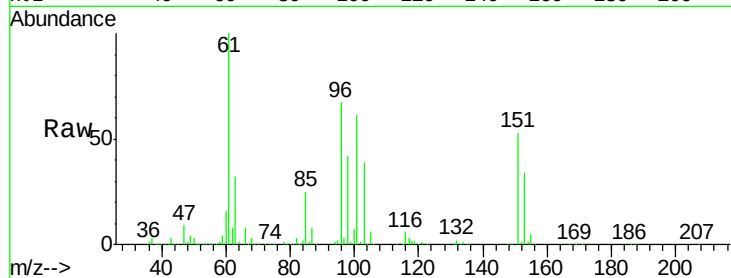
151 86.9 0.0 175.0

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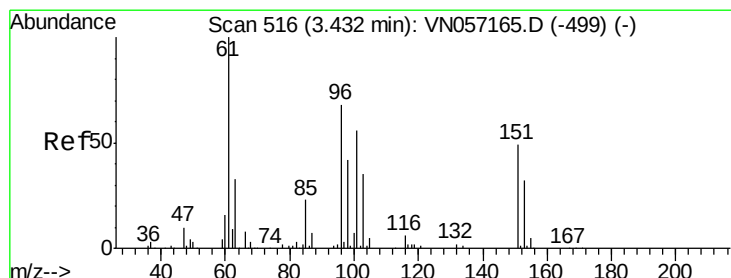
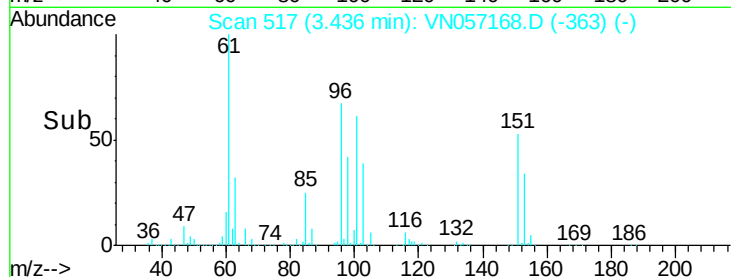
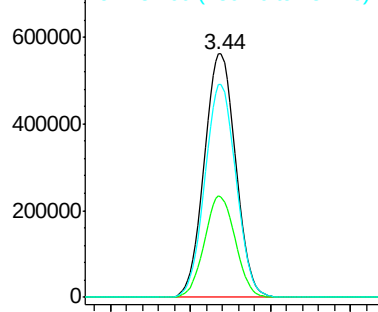
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Abundance Ion 101.00 (100.70 to 101.70): V

Ion 85.00 (84.70 to 85.70): VN

Ion 151.00 (150.70 to 151.70): V



#10

1,1-Dichloroethene

Concen: 155.616 ug/l

RT: 3.43 min Scan# 515

Delta R.T. -0.00 min

Lab File: VN057168.D

Acq: 10 Aug 2019 11:26

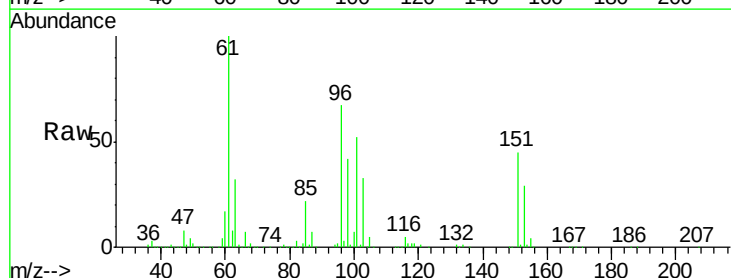
Tgt Ion: 96 Resp: 1495801

Ion Ratio Lower Upper

96 100

61 149.7 118.2 177.2

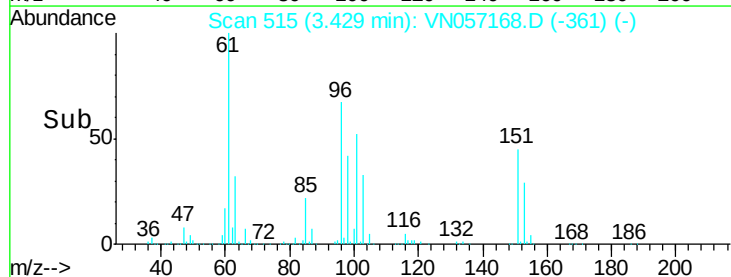
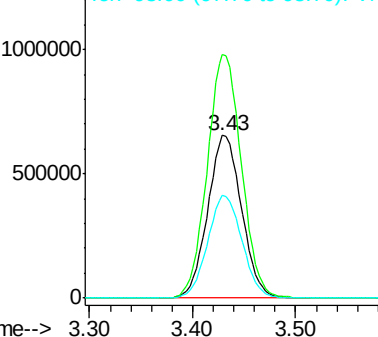
98 63.2 49.3 73.9

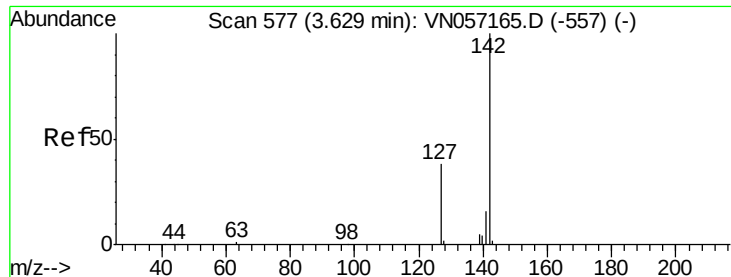


Abundance Ion 96.00 (95.70 to 96.70): VN

Ion 61.00 (60.70 to 61.70): VN

Ion 98.00 (97.70 to 98.70): VN





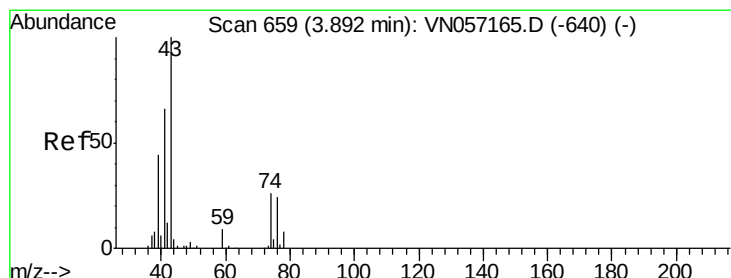
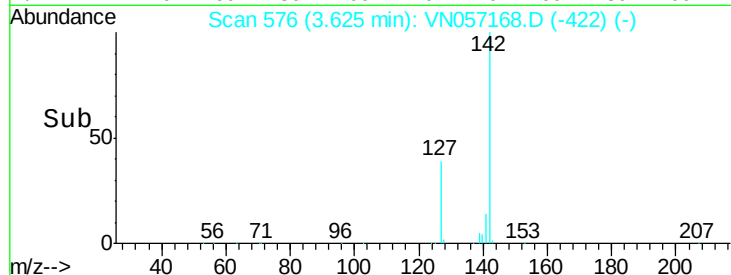
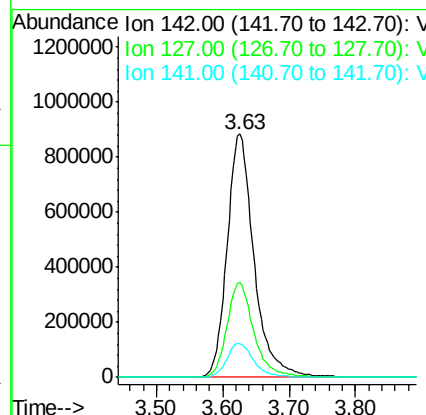
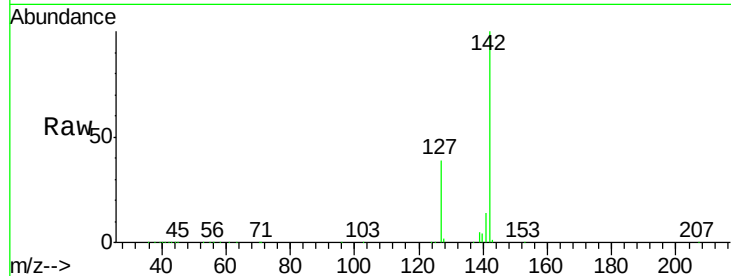
#11
Methvl Iodide
Concen: 166.247 ug/l
RT: 3.63 min Scan# 576
Delta R.T. -0.00 min
Lab File: VN057168.D
Acq: 10 Aug 2019 11:26

Instrument :
MSVOA_N
ClientSampleId :
VSTDIC150

Tot Ion:142 Resp: 2493459
Ion Ratio Lower Upper
142 100
127 38.8 19.0 57.0
141 13.8 7.8 23.5

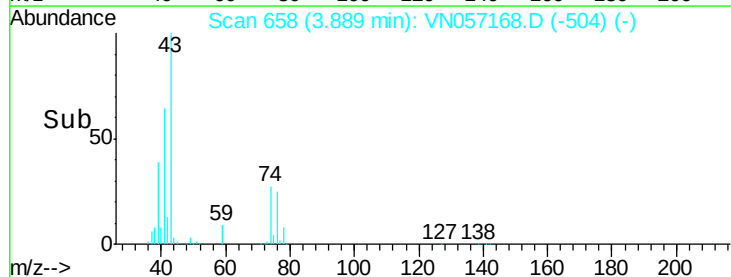
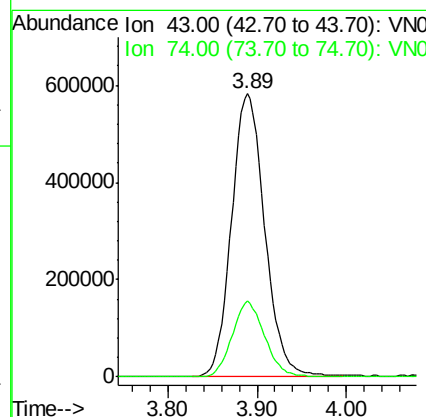
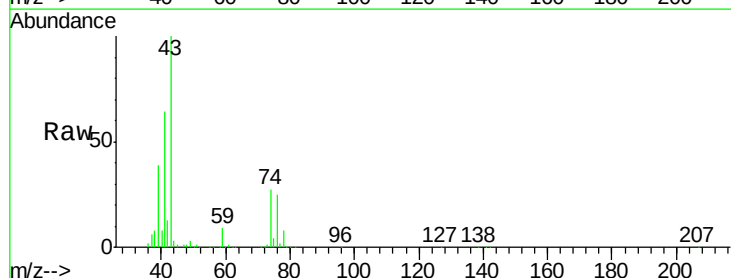
Manual Integrations
APPROVED

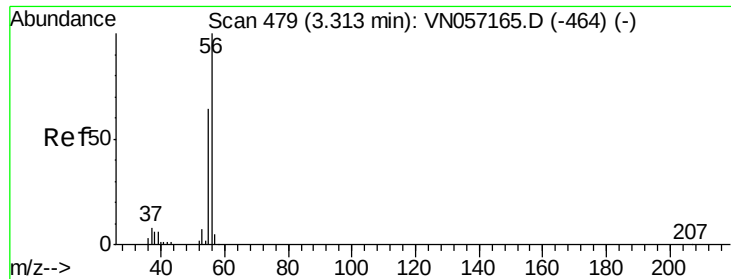
MMDadoda
8/12/2019 3:55:37 PM



#12
Methyl Acetate
Concen: 149.025 ug/l
RT: 3.89 min Scan# 658
Delta R.T. -0.00 min
Lab File: VN057168.D
Acq: 10 Aug 2019 11:26

Tgt Ion: 43 Resp: 1492175
Ion Ratio Lower Upper
43 100
74 26.7 20.5 30.7





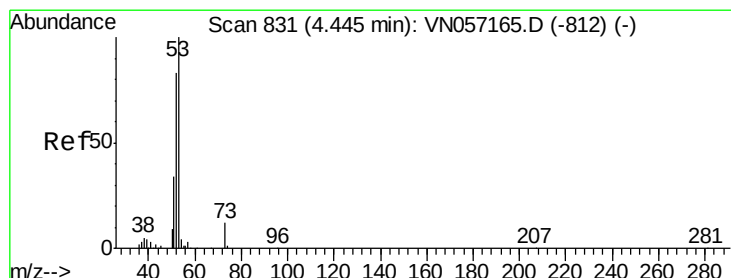
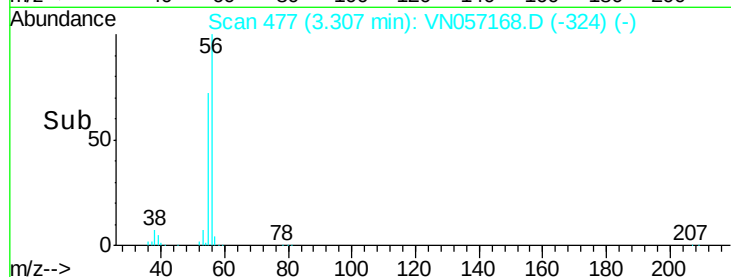
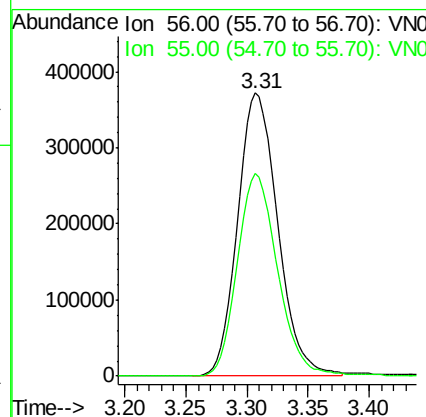
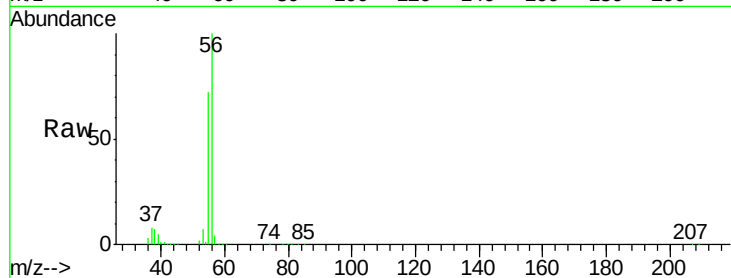
#13
Acrolein
Concen: 769.854 ug/l
RT: 3.31 min Scan# 477
Delta R.T. -0.01 min
Lab File: VN057168.D
Acq: 10 Aug 2019 11:26

Instrument :
MSVOA_N
ClientSampleId :
VSTDICC150

Tot Ion	Ratio	Lower	Upper
56	100		
55	72.0	56.5	84.7

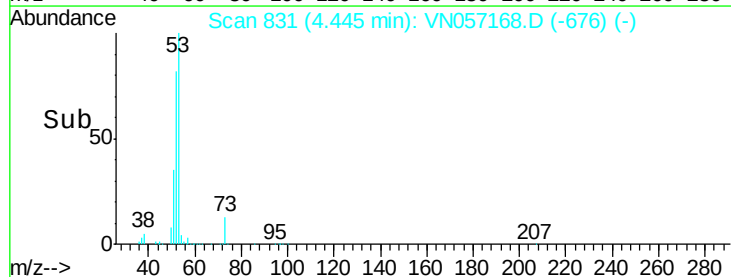
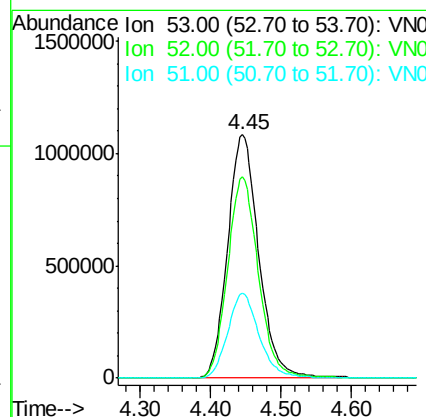
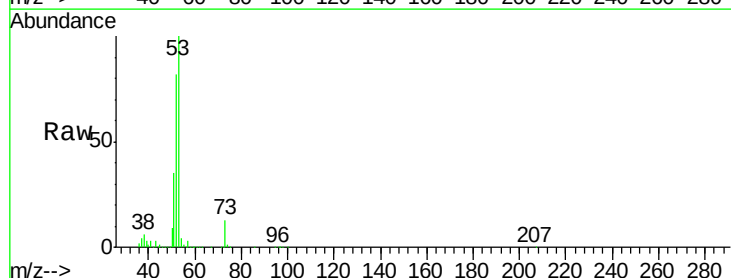
Manual Integrations
APPROVED

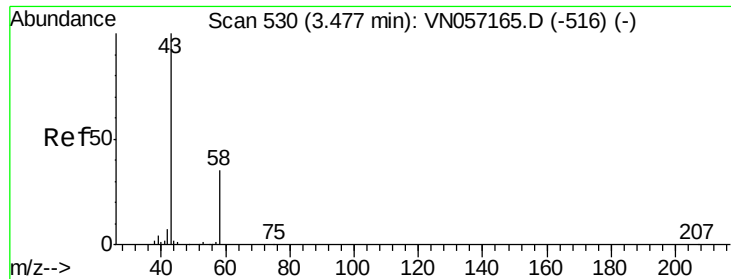
MMDadoda
8/12/2019 3:55:37 PM



#14
Acrylonitrile
Concen: 800.390 ug/l
RT: 4.45 min Scan# 831
Delta R.T. -0.00 min
Lab File: VN057168.D
Acq: 10 Aug 2019 11:26

Tgt Ion	Ratio	Lower	Upper
53	100		
52	81.6	41.1	123.4
51	35.1	17.4	52.3





#15

Acetone

Concen: 709.309 ug/l

RT: 3.48 min Scan# 530

Delta R.T. -0.00 min

Lab File: VN057168.D

Acq: 10 Aug 2019 11:26

Instrument :

MSVOA_N

ClientSampleId :

VSTDIC150

Tot Ion: 58 Resp: 983420

Ion Ratio Lower Upper

58 100

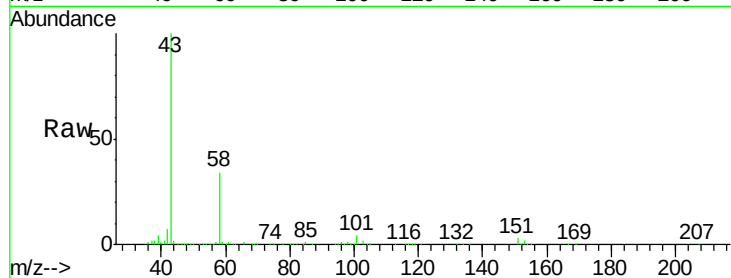
43 294.7 226.2 339.2

Manual Integrations

APPROVED

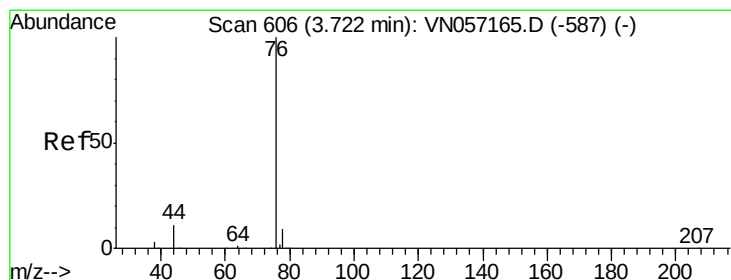
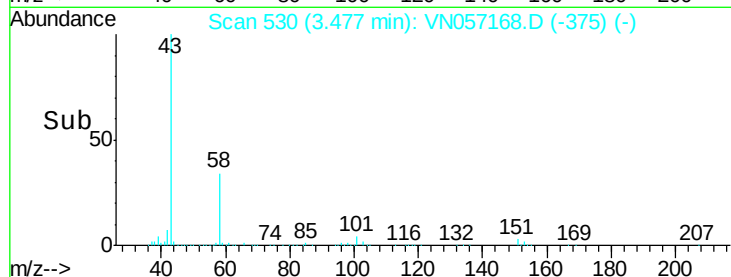
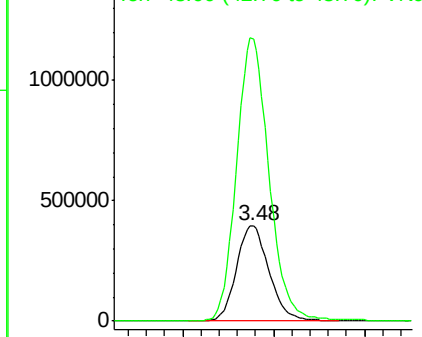
MMDadoda

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Abundance Ion 58.00 (57.70 to 58.70): VNO

Ion 43.00 (42.70 to 43.70): VNO



#16

Carbon Disulfide

Concen: 160.816 ug/l

RT: 3.72 min Scan# 606

Delta R.T. -0.00 min

Lab File: VN057168.D

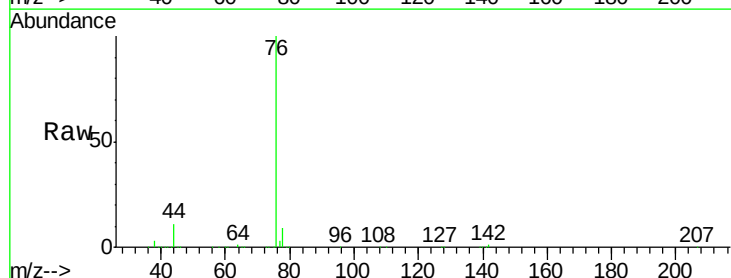
Acq: 10 Aug 2019 11:26

Tgt Ion: 76 Resp: 4170204

Ion Ratio Lower Upper

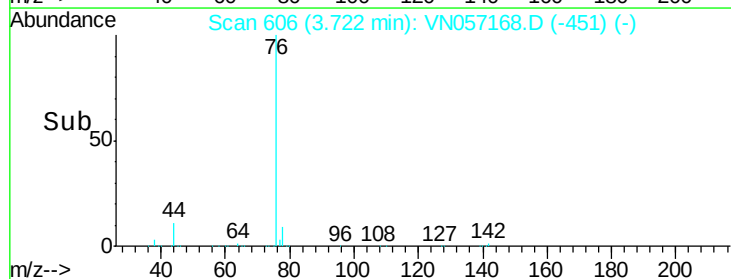
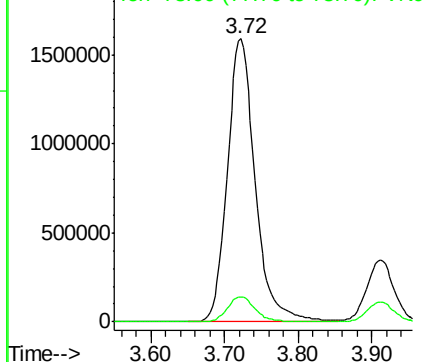
76 100

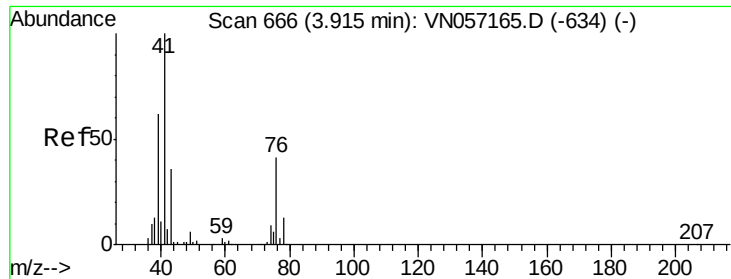
78 9.0 7.3 10.9



Abundance Ion 76.00 (75.70 to 76.70): VNO

Ion 78.00 (77.70 to 78.70): VNO





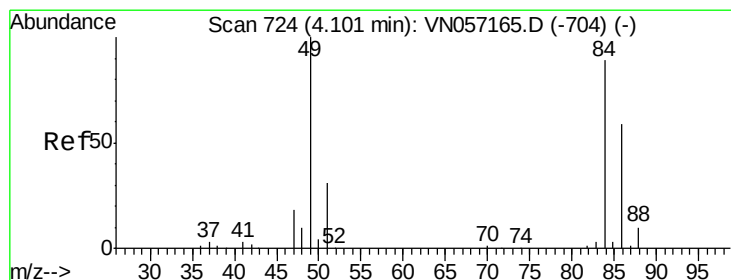
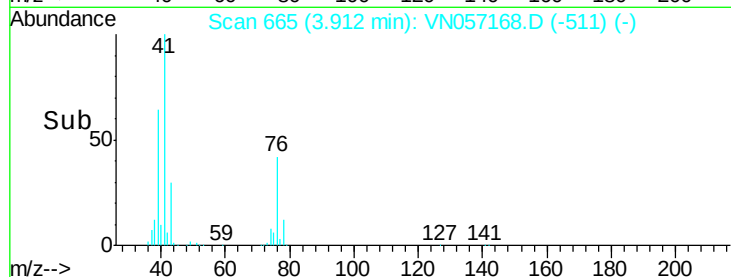
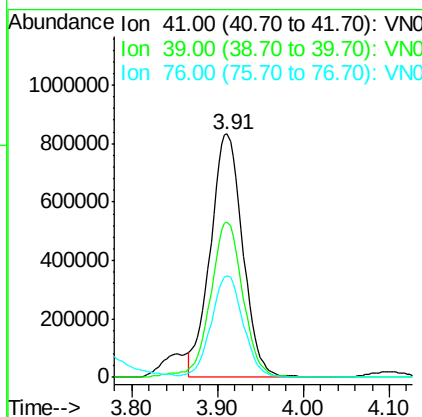
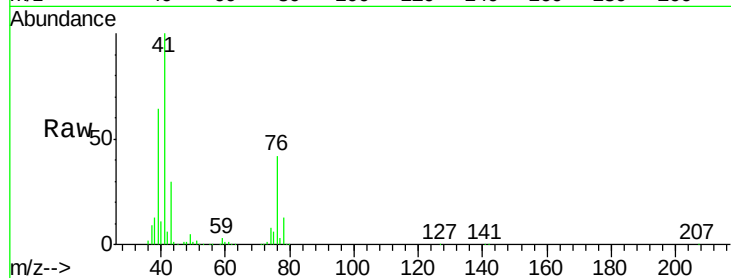
#17
Allvl chloride
Concen: 153.807 ug/l
RT: 3.91 min Scan# 665
Delta R.T. -0.00 min
Lab File: VN057168.D
Acq: 10 Aug 2019 11:26

Instrument :
MSVOA_N
ClientSampleId :
VSTDIC150

Tot Ion: 41 Resp: 2179546
Ion Ratio Lower Upper
41 100
39 63.9 31.2 93.6
76 41.8 20.5 61.6

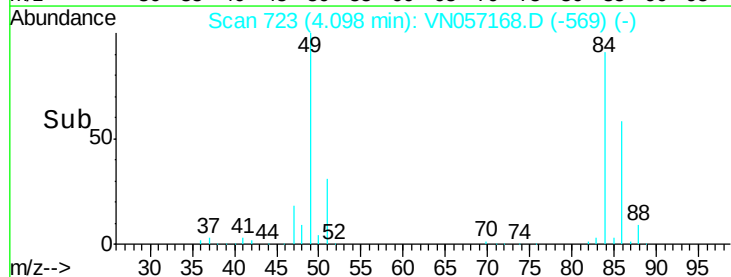
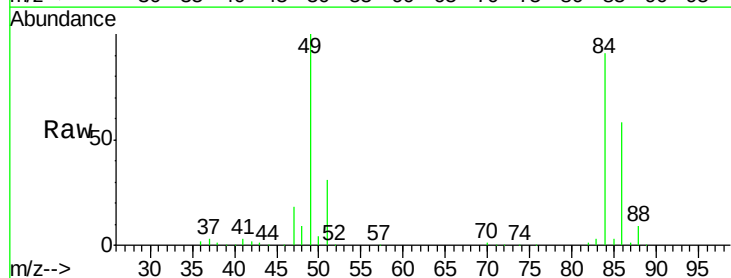
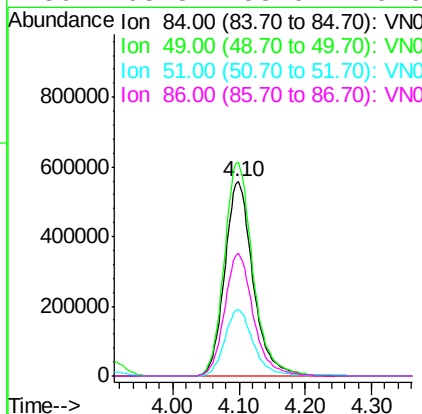
Manual Integrations
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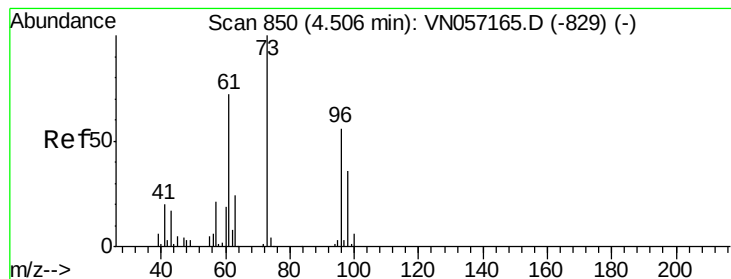
MMDadoda
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#18
Methylene Chloride
Concen: 152.092 ug/l
RT: 4.10 min Scan# 723
Delta R.T. -0.00 min
Lab File: VN057168.D
Acq: 10 Aug 2019 11:26

Tgt Ion: 84 Resp: 1657395
Ion Ratio Lower Upper
84 100
49 110.0 90.1 135.1
51 34.1 27.9 41.9
86 63.3 53.0 79.6





#19

trans-1,2-Dichloroethene

Concen: 154.513 ug/l

RT: 4.50 min Scan# 849

Delta R.T. -0.00 min

Lab File: VN057168.D

Acq: 10 Aug 2019 11:26

Instrument :

MSVOA_N

ClientSampleId :

VSTDIC150

Tot Ion: 96 Resp: 1592237

Ion Ratio Lower Upper

96 100

61 132.8 103.6 155.4

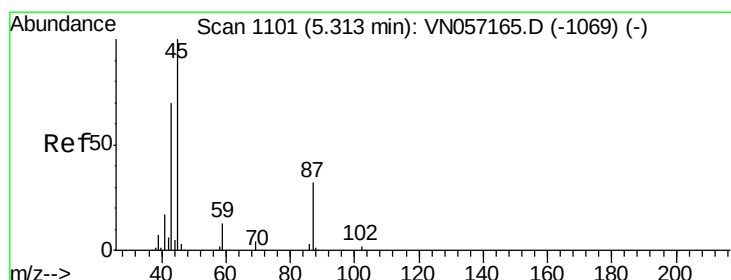
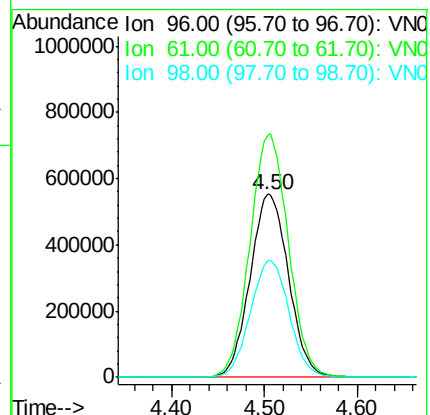
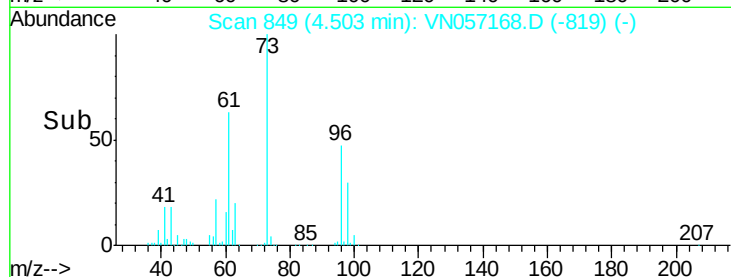
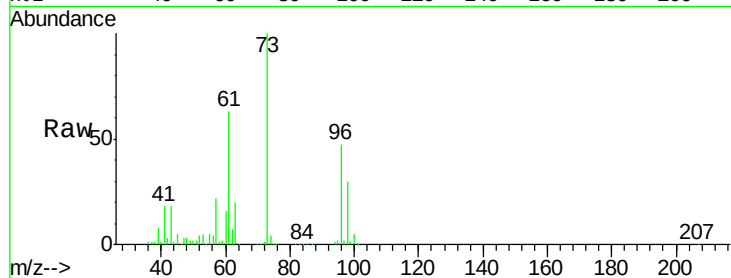
98 63.6 51.3 76.9

Manual Integrations

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#20

Diisopropyl ether

Concen: 152.990 ug/l

RT: 5.32 min Scan# 1102

Delta R.T. 0.00 min

Lab File: VN057168.D

Acq: 10 Aug 2019 11:26

Tgt Ion: 45 Resp: 4421438

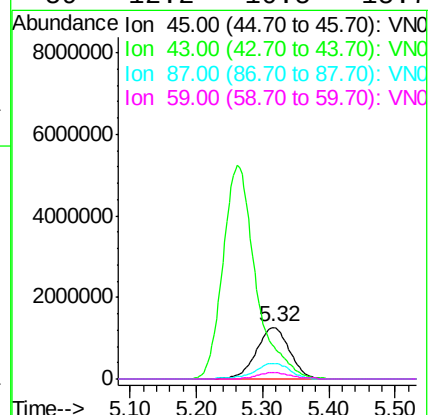
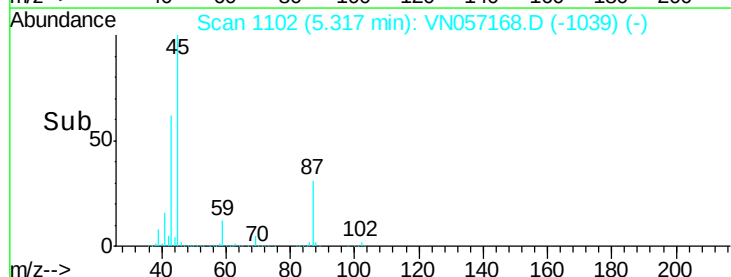
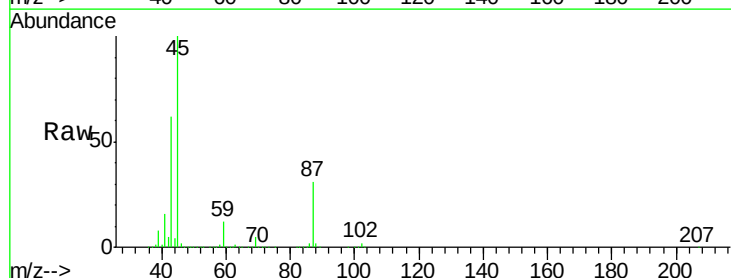
Ion Ratio Lower Upper

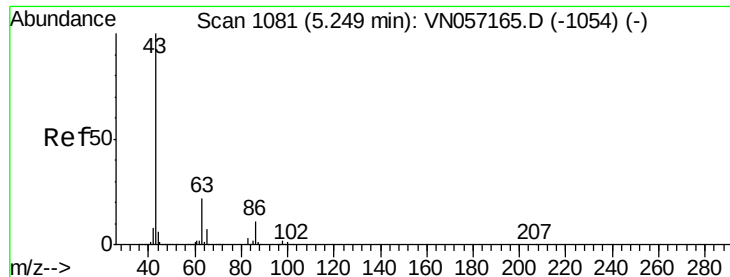
45 100

43 61.5 60.0 90.0

87 30.9 25.9 38.9

59 12.2 10.5 15.7





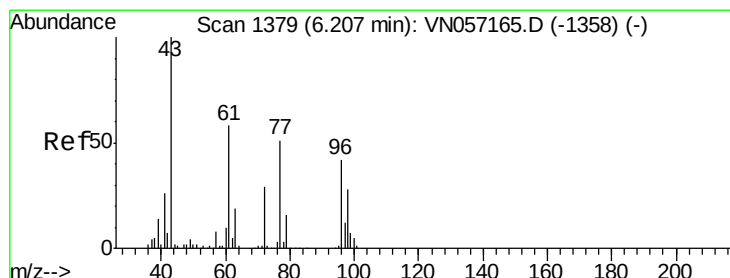
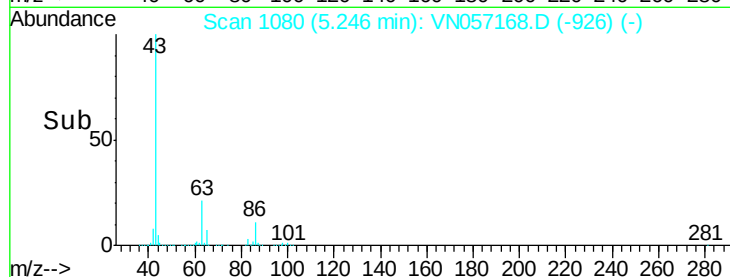
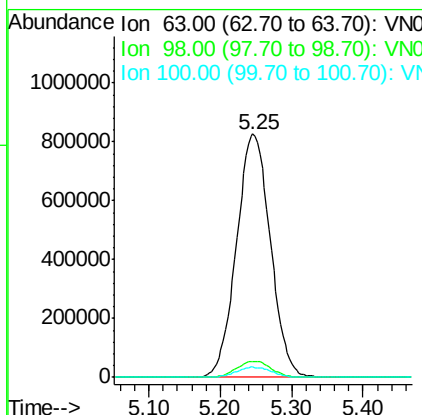
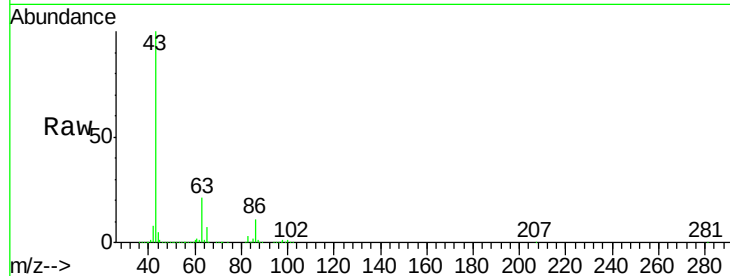
#21
 1,1-Dichloroethane
 Concen: 151.904 ug/l
 RT: 5.25 min Scan# 1080
 Delta R.T. -0.00 min
 Lab File: VN057168.D
 Acq: 10 Aug 2019 11:26

Instrument :
 MSVOA_N
 ClientSampleId :
 VSTDIC150

Tot Ion	Ratio	Lower	Upper
63	100		
98	6.7	3.5	10.4
100	4.2	1.9	5.7

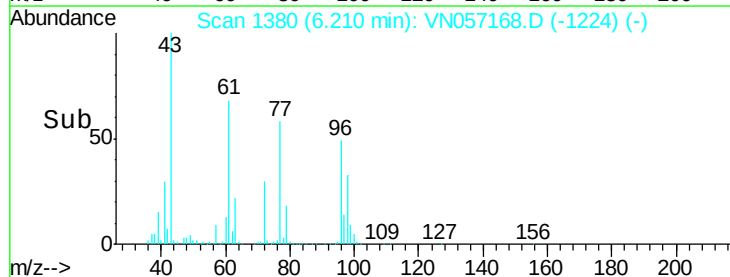
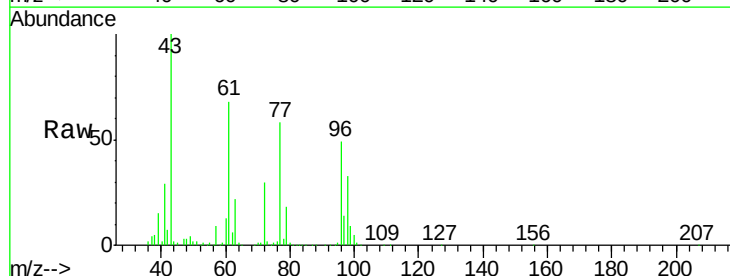
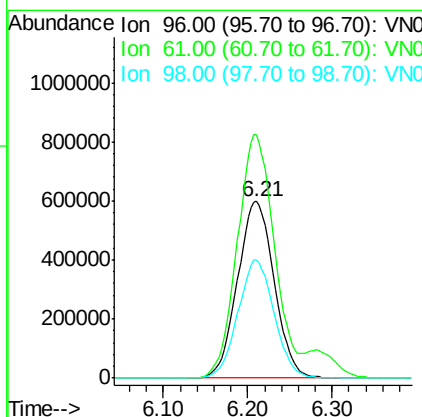
Manual Integrations
 APPROVED

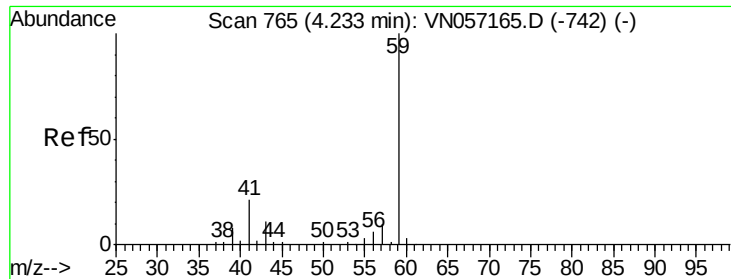
MMDadoda
 8/12/2019 3:55:37 PM



#22
 cis-1,2-Dichloroethene
 Concen: 154.307 ug/l
 RT: 6.21 min Scan# 1380
 Delta R.T. 0.00 min
 Lab File: VN057168.D
 Acq: 10 Aug 2019 11:26

Tgt Ion	Ratio	Lower	Upper
96	100		
61	139.1	109.2	163.8
98	65.8	51.7	77.5





#23

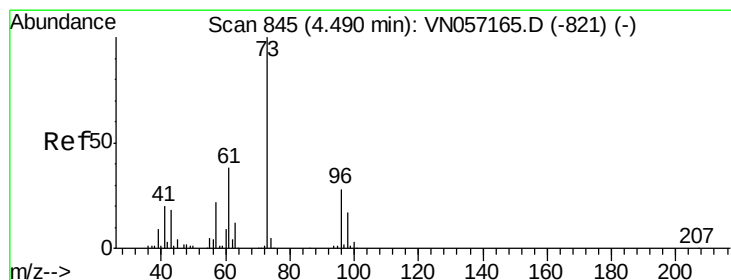
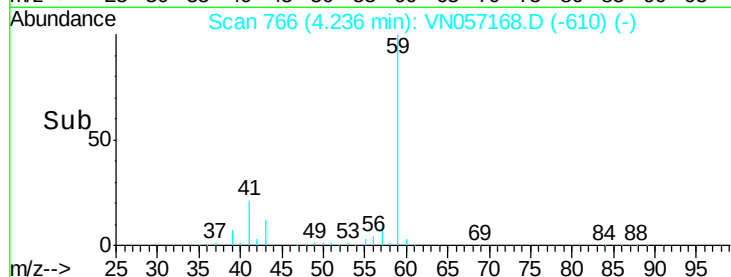
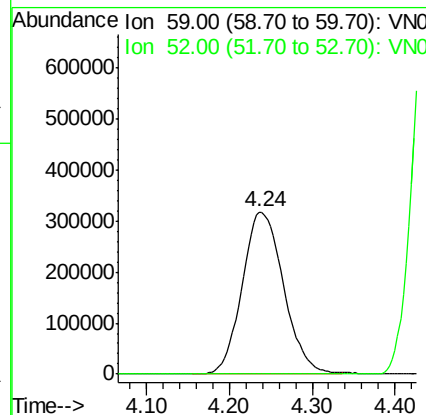
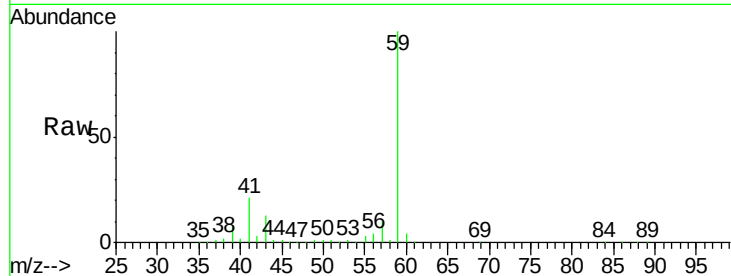
tert-Butyl Alcohol
 Concen: 799.113 ug/l
 RT: 4.24 min Scan# 766
 Delta R.T. 0.00 min
 Lab File: VN057168.D
 Acq: 10 Aug 2019 11:26

Instrument :
 MSVOA_N
 ClientSampleId :
 VSTDIC150

Tot Ion: 59 Resp: 1101597
 Ion Ratio Lower Upper
 59 100
 52 0.2 0.2 0.2

Manual Integrations
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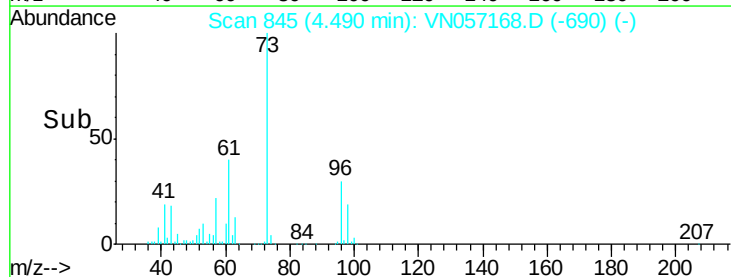
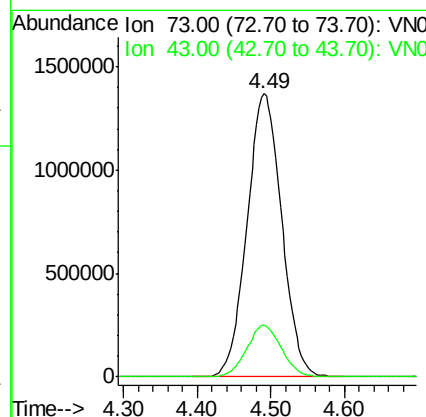
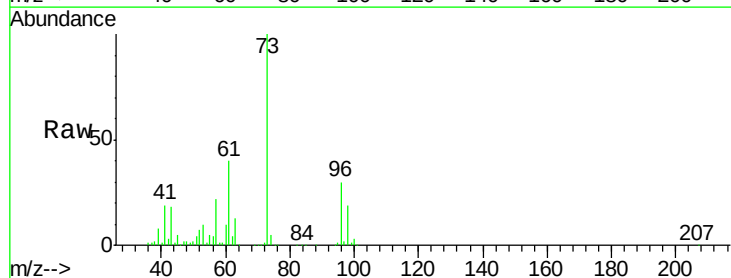
MMDadoda
 8/12/2019 3:55:37 PM

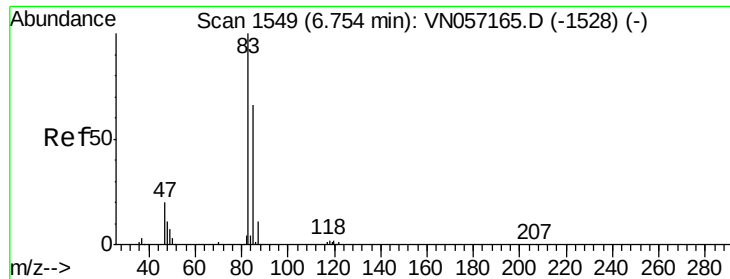


#24

Methyl tert-Butyl Ether
 Concen: 158.400 ug/l
 RT: 4.49 min Scan# 845
 Delta R.T. -0.00 min
 Lab File: VN057168.D
 Acq: 10 Aug 2019 11:26

Tgt Ion: 73 Resp: 4477271
 Ion Ratio Lower Upper
 73 100
 43 18.2 14.3 21.5





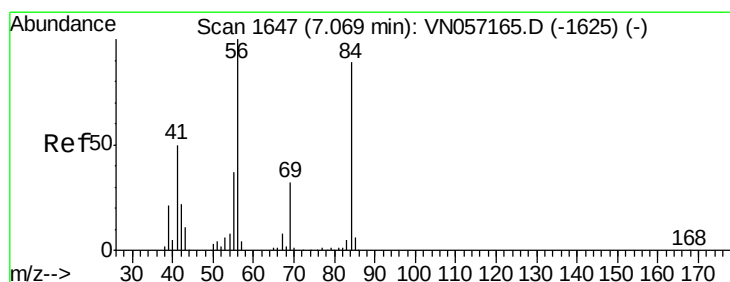
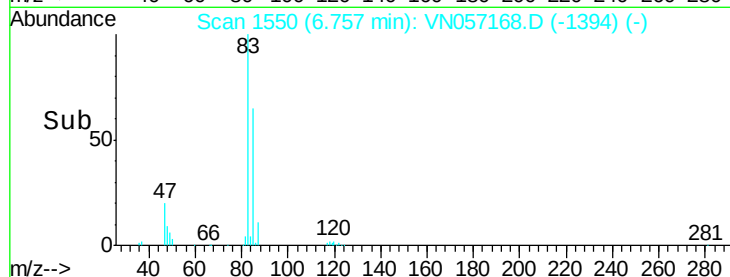
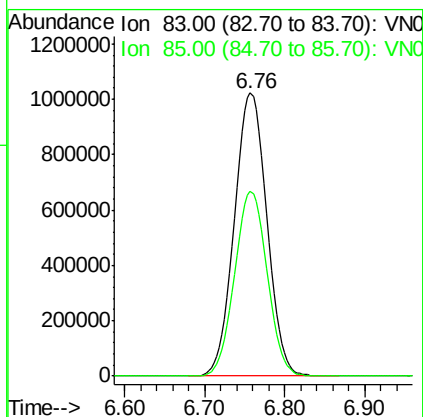
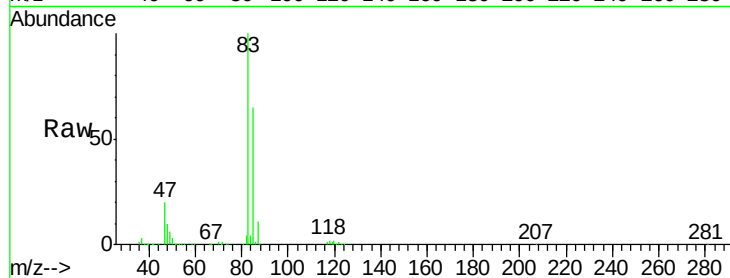
#25
Chloroform
Concen: 151.930 ug/l
RT: 6.76 min Scan# 1550
Delta R.T. 0.00 min
Lab File: VN057168.D
Acq: 10 Aug 2019 11:26

Instrument :
MSVOA_N
ClientSampleId :
VSTDIC150

Tot Ion: 83 Resp: 2811956
Ion Ratio Lower Upper
83 100
85 65.4 52.5 78.7

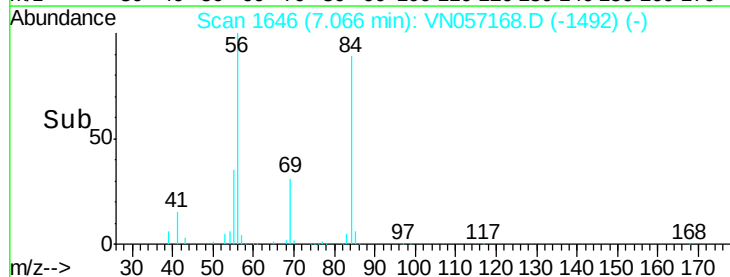
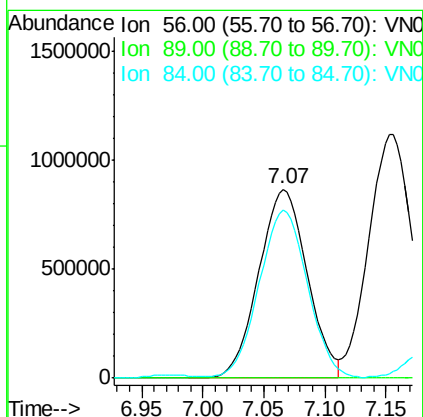
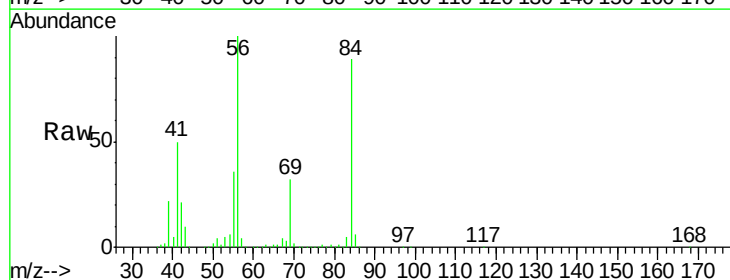
Manual Integrations
APPROVED

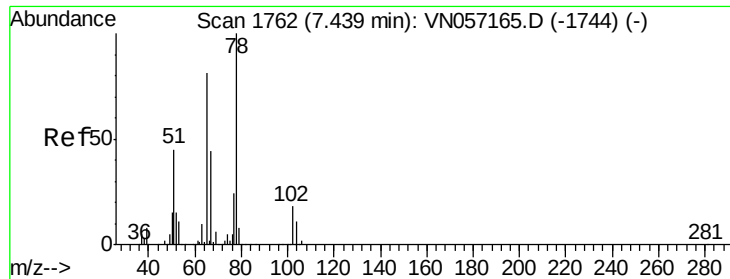
MMDadoda
8/12/2019 3:55:37 PM



#26
Cyclohexane
Concen: 155.921 ug/l
RT: 7.07 min Scan# 1646
Delta R.T. -0.00 min
Lab File: VN057168.D
Acq: 10 Aug 2019 11:26

Tgt Ion: 56 Resp: 2399221
Ion Ratio Lower Upper
56 100
89 0.0 0.0 0.0
84 89.1 70.8 106.2





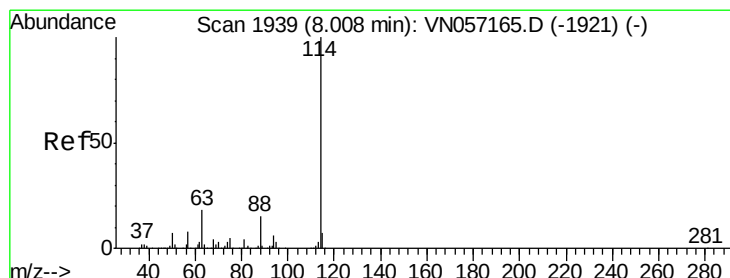
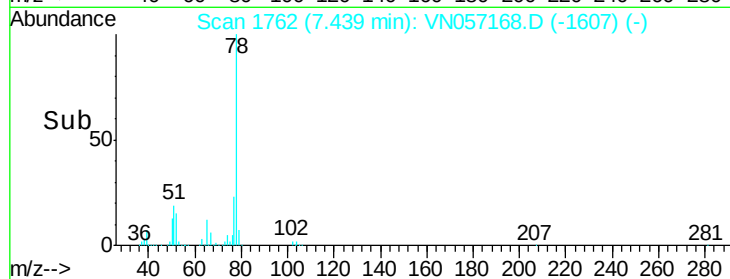
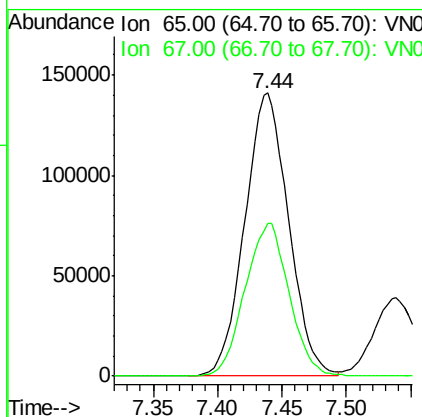
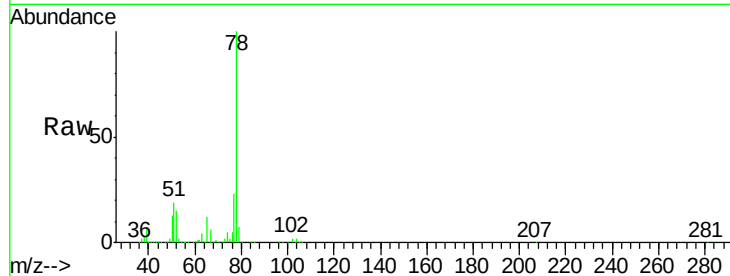
#27
 1,2-Dichloroethane-d4
 Concen: 30.480 ug/l
 RT: 7.44 min Scan# 1762
 Delta R.T. -0.00 min
 Lab File: VN057168.D
 Acq: 10 Aug 2019 11:26

Instrument :
 MSVOA_N
 ClientSampleId :
 VSTDIC150

Tot Ion	Ratio	Lower	Upper
65	100		
67	54.3	42.4	63.6

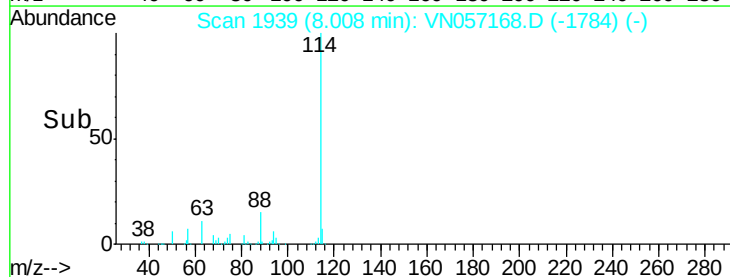
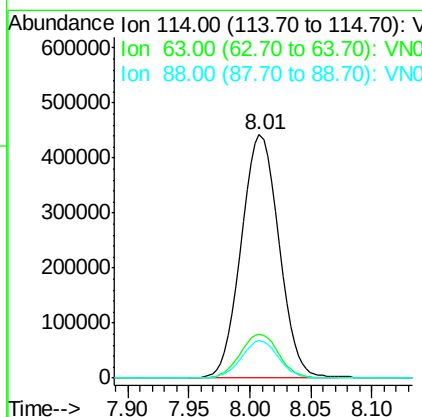
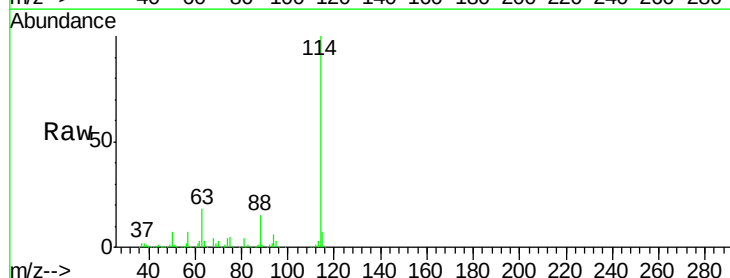
Manual Integrations
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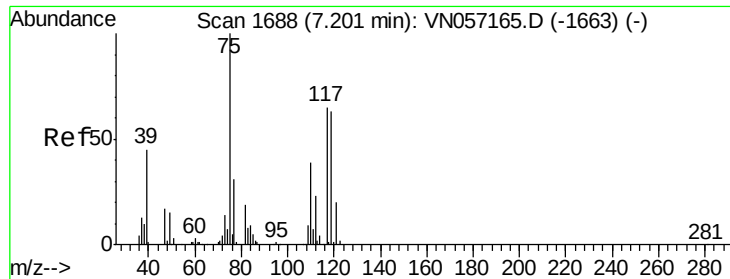
MMDadoda
 8/12/2019 3:55:37 PM



#28
 1,4-Difluorobenzene
 Concen: 30.000 ug/l
 RT: 8.01 min Scan# 1939
 Delta R.T. -0.00 min
 Lab File: VN057168.D
 Acq: 10 Aug 2019 11:26

Tgt Ion	Ratio	Lower	Upper
114	100		
63	18.4	14.6	21.8
88	15.0	12.2	18.2





#29

1,1-Dichloropropene

Concen: 153.010 ug/l

RT: 7.20 min Scan# 1688

Delta R.T. -0.00 min

Lab File: VN057168.D

Acq: 10 Aug 2019 11:26

Instrument :

MSVOA_N

ClientSampled :

VSTDIC150

Tot Ion: 75 Resp: 2181809

Ion Ratio Lower Upper

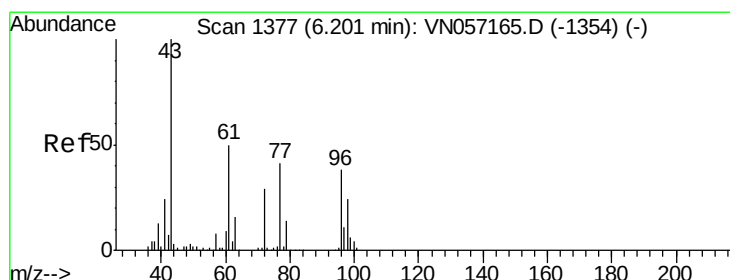
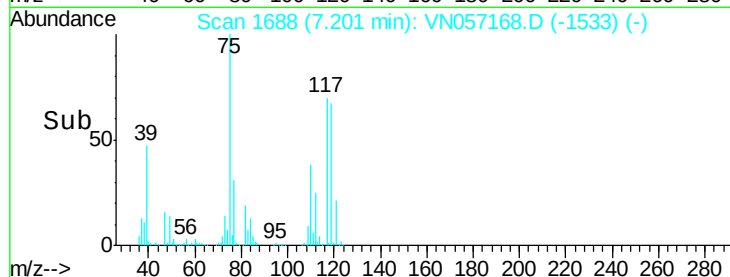
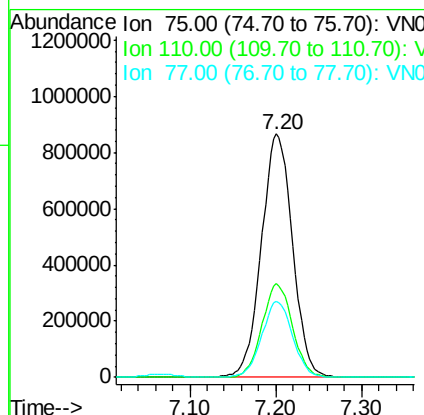
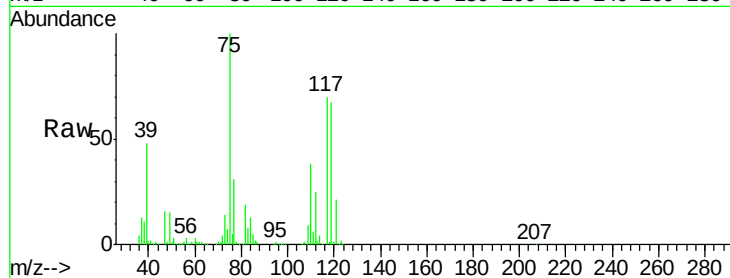
75 100

110 37.6 0.0 75.6

77 30.9 0.0 62.4

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8/12/2019 3:55:37 PM



#30

2-Butanone

Concen: 752.459 ug/l

RT: 6.20 min Scan# 1376

Delta R.T. -0.00 min

Lab File: VN057168.D

Acq: 10 Aug 2019 11:26

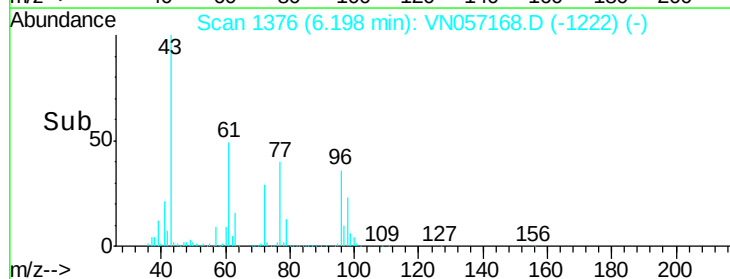
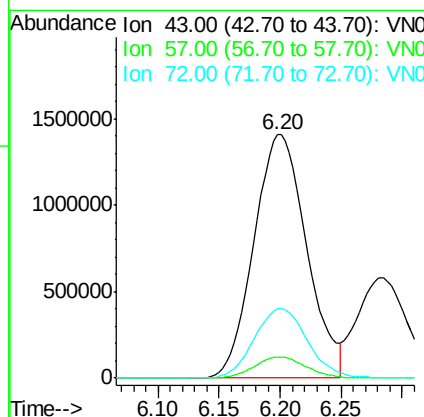
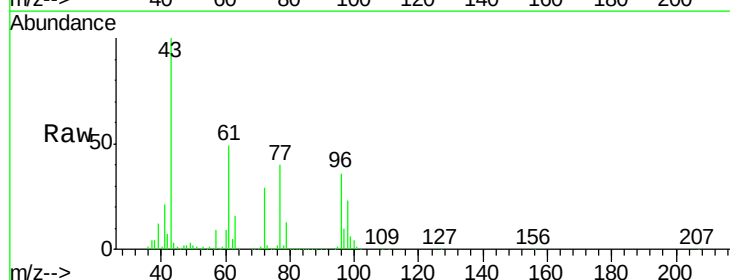
Tgt Ion: 43 Resp: 4224187

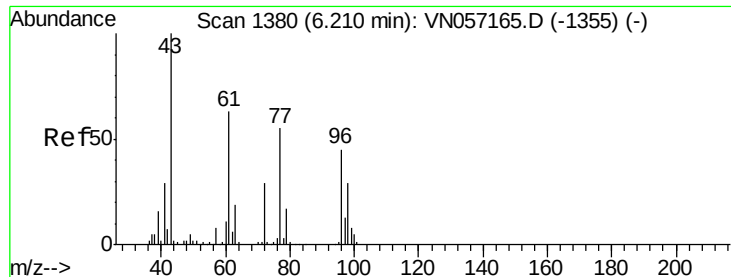
Ion Ratio Lower Upper

43 100

57 8.6 6.8 10.2

72 29.0 23.0 34.6





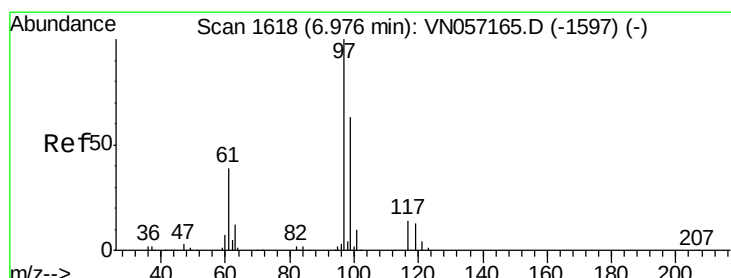
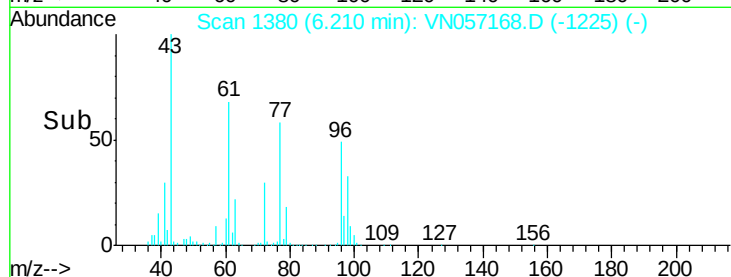
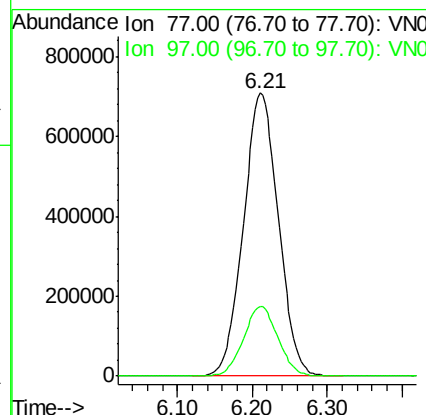
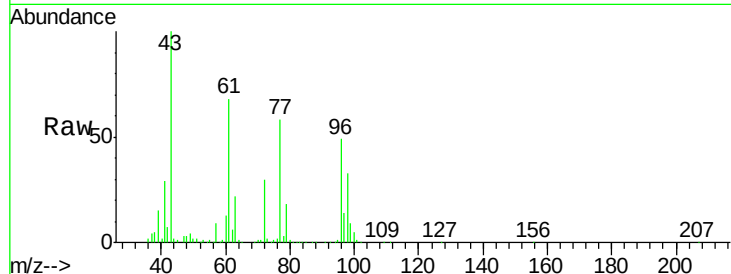
#31
 2,2-Dichloropropane
 Concen: 151.042 ug/l
 RT: 6.21 min Scan# 1380
 Delta R.T. -0.00 min
 Lab File: VN057168.D
 Acq: 10 Aug 2019 11:26

Instrument :
 MSVOA_N
 ClientSampleId :
 VSTDIC150

Tot Ion: 77 Resp: 2302695
 Ion Ratio Lower Upper
 77 100
 97 24.3 19.4 29.2

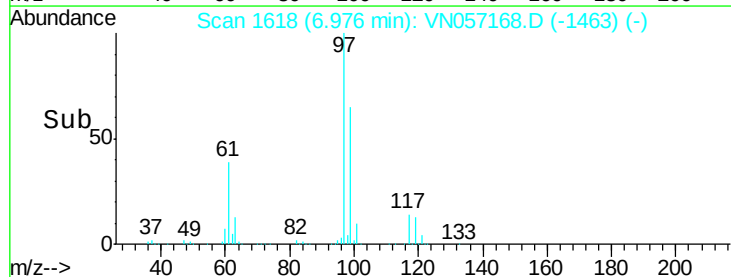
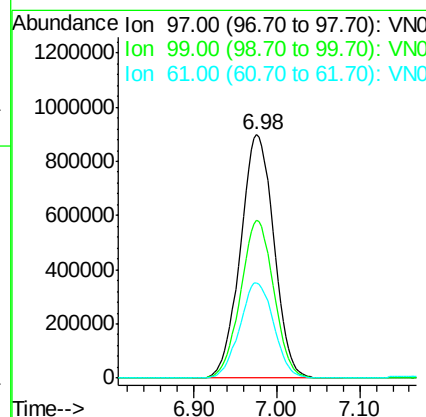
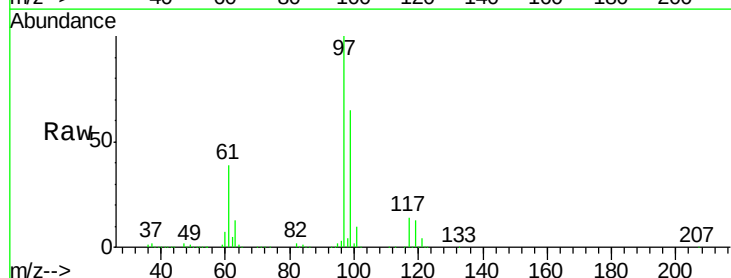
Manual Integrations
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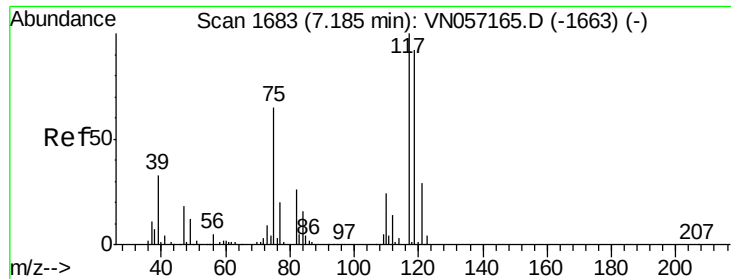
MMDadoda
 8/12/2019 3:55:37 PM



#32
 1,1,1-Trichloroethane
 Concen: 152.778 ug/l
 RT: 6.98 min Scan# 1618
 Delta R.T. -0.00 min
 Lab File: VN057168.D
 Acq: 10 Aug 2019 11:26

Tgt Ion: 97 Resp: 2522866
 Ion Ratio Lower Upper
 97 100
 99 64.3 52.4 78.6
 61 39.6 32.3 48.5





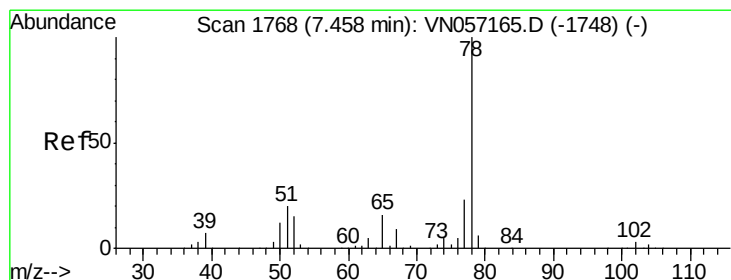
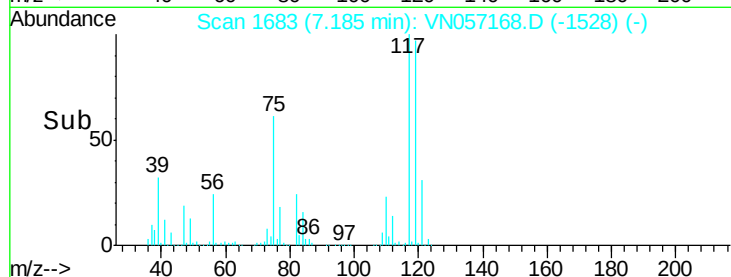
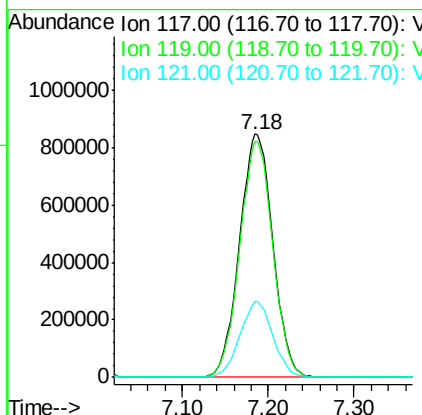
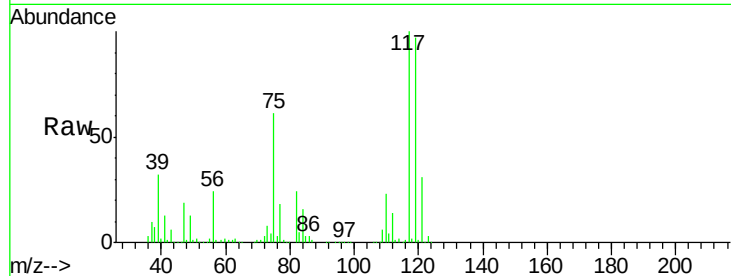
#33
Carbon Tetrachloride
Concen: 155.032 ug/l
RT: 7.18 min Scan# 1683
Delta R.T. -0.00 min
Lab File: VN057168.D
Acq: 10 Aug 2019 11:26

Instrument :
MSVOA_N
ClientSampleId :
VSTDIC150

Tot Ion	Ratio	Lower	Upper
117	100		
119	97.1	73.9	110.9
121	30.9	23.4	35.2

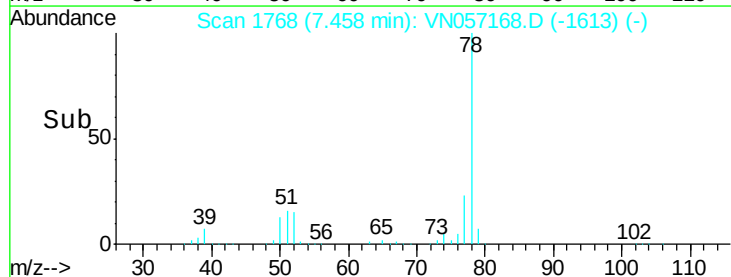
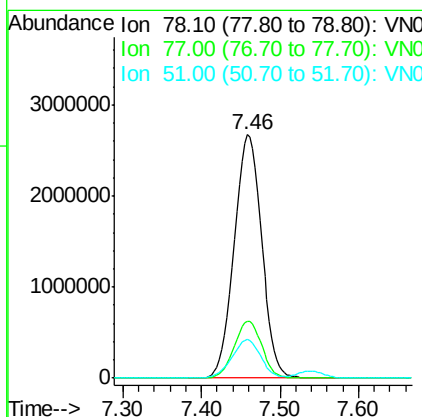
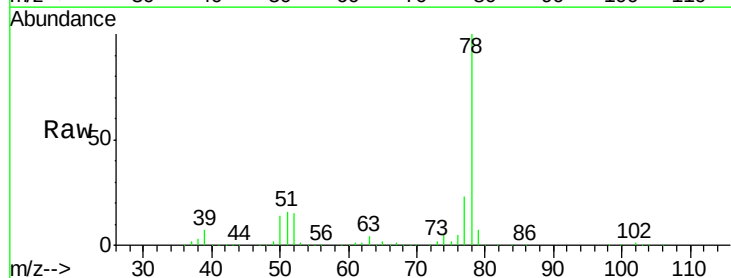
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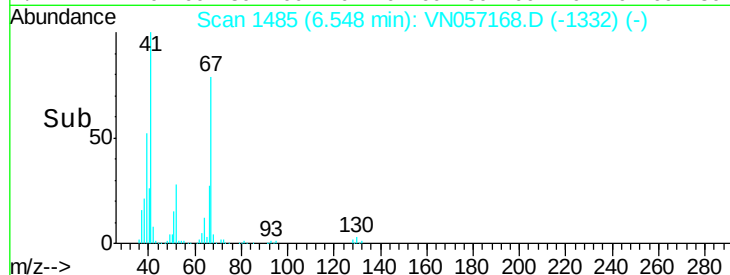
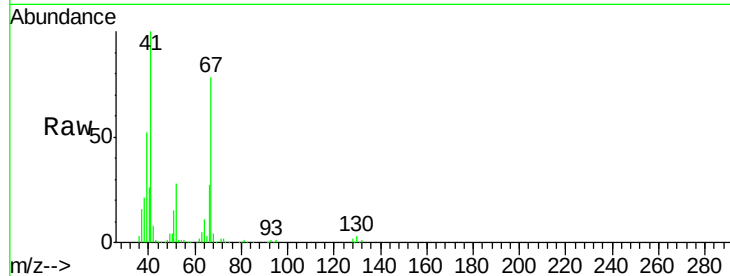
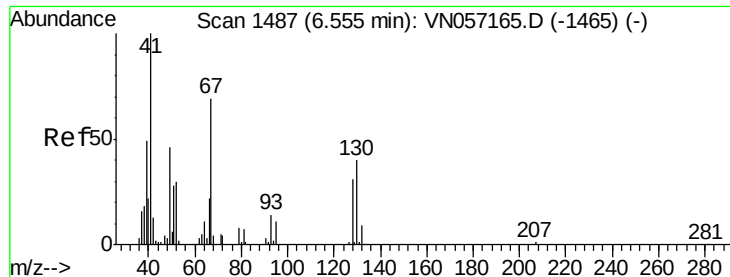
MMDadoda
8/12/2019 3:55:37 PM



#34
Benzene
Concen: 150.148 ug/l
RT: 7.46 min Scan# 1768
Delta R.T. -0.00 min
Lab File: VN057168.D
Acq: 10 Aug 2019 11:26

Tgt Ion	Ratio	Lower	Upper
78	100		
77	23.5	18.3	27.5
51	15.7	16.2	24.2#





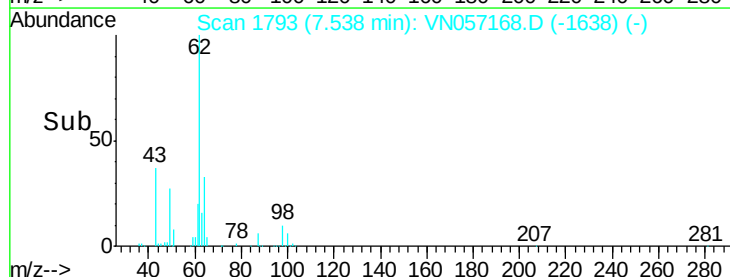
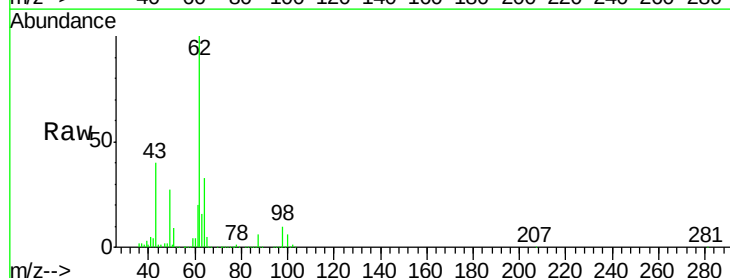
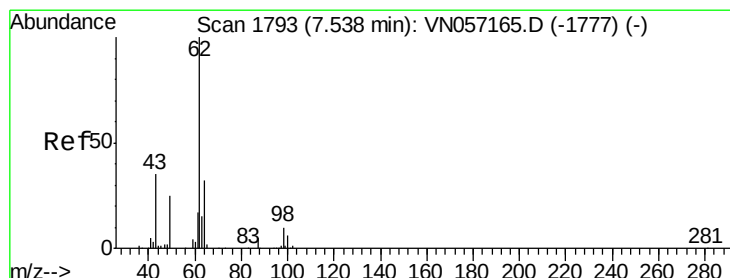
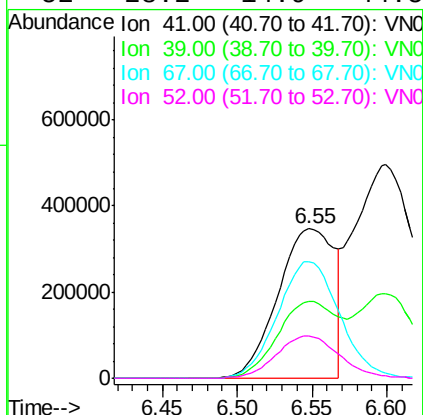
#35
Methacrylonitrile
Concen: 159.647 ug/l
RT: 6.55 min Scan# 1485
Delta R.T. -0.01 min
Lab File: VN057168.D
Acq: 10 Aug 2019 11:26

Tot Ion	Ion	Ratio	Resp	Lower	Upper
41	100		905805		
39	51.8	24.6	74.0		
67	78.5	34.4	103.2		
52	28.2	14.9	44.5		

Instrument :
MSVOA_N
ClientSampleId :
VSTDIC150

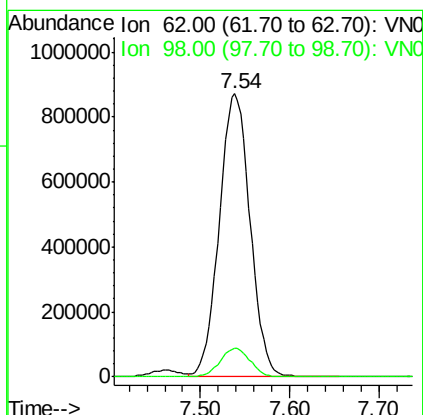
Manual Integrations
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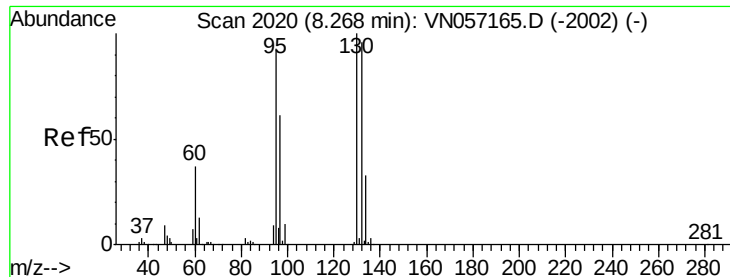
MMDadoda
8/12/2019 3:55:37 PM



#36
1,2-Dichloroethane
Concen: 149.674 ug/l
RT: 7.54 min Scan# 1793
Delta R.T. -0.00 min
Lab File: VN057168.D
Acq: 10 Aug 2019 11:26

Tgt Ion	Ion	Ratio	Resp	Lower	Upper
62	100		2081246		
98	9.9	8.2	12.4		





#37

Trichloroethene

Concen: 150.097 ug/l

RT: 8.27 min Scan# 2020

Delta R.T. -0.00 min

Lab File: VN057168.D

Acq: 10 Aug 2019 11:26

Instrument :

MSVOA_N

ClientSampleId :

VSTDIC150

Tot Ion:130 Resp: 1856516

Ion Ratio Lower Upper

130 100

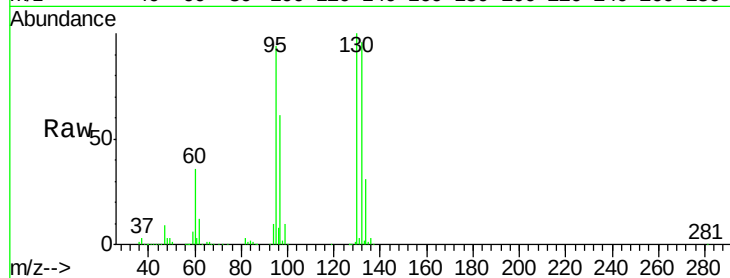
95 94.2 74.6 112.0

Manual Integrations

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Abundance Ion 129.90 (129.60 to 130.60): V

Ion 94.90 (94.60 to 95.60): VN

8.27

1000000

800000

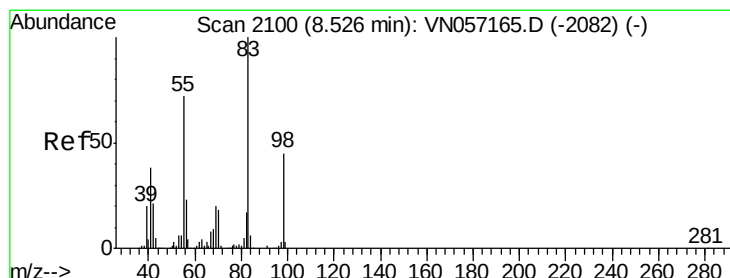
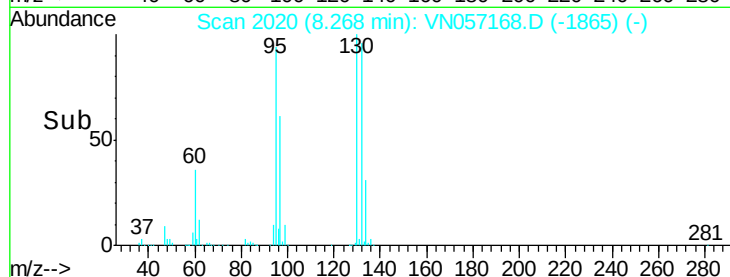
600000

400000

200000

0

Time-->



#38

Methylcyclohexane

Concen: 155.605 ug/l

RT: 8.53 min Scan# 2100

Delta R.T. -0.00 min

Lab File: VN057168.D

Acq: 10 Aug 2019 11:26

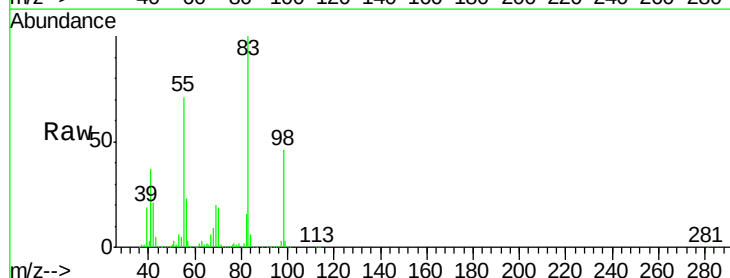
Tgt Ion: 83 Resp: 2647751

Ion Ratio Lower Upper

83 100

55 72.2 36.5 109.7

98 46.7 23.4 70.0



Abundance Ion 83.00 (82.70 to 83.70): VN

Ion 55.00 (54.70 to 55.70): VN

Ion 98.00 (97.70 to 98.70): VN

8.53

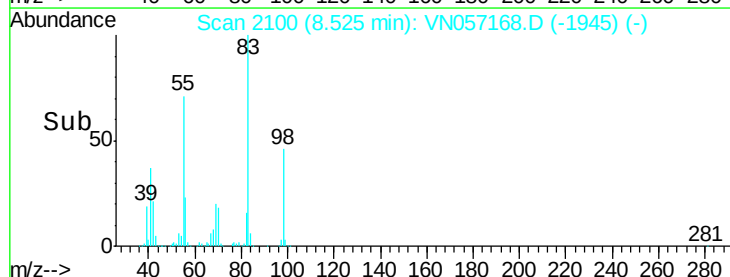
1500000

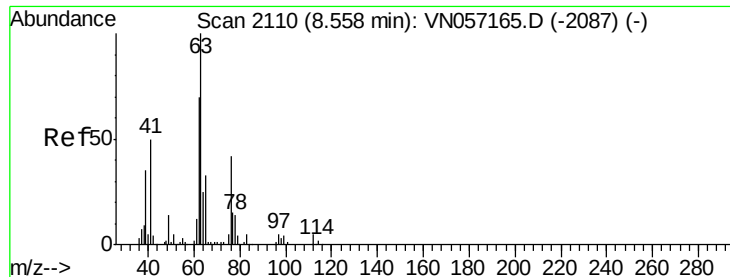
1000000

500000

0

Time-->





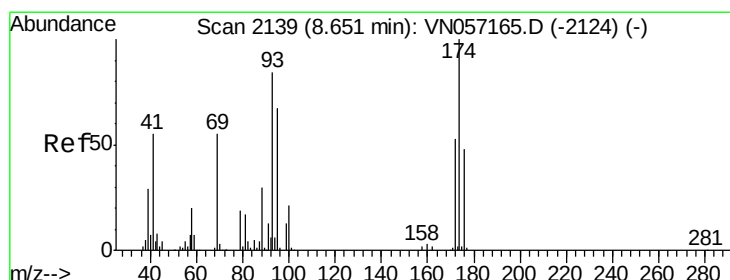
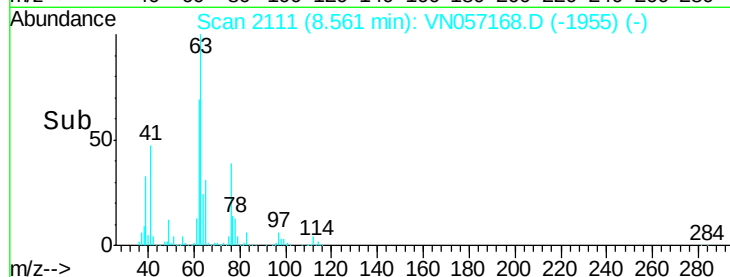
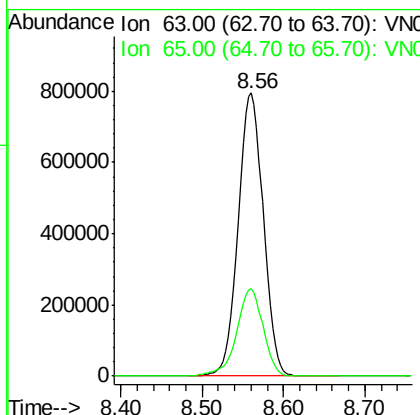
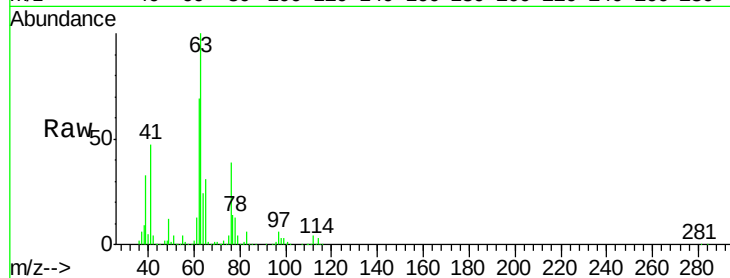
#39
 1,2-Dichloropropane
 Concen: 87.986 ug/l
 RT: 8.56 min Scan# 2111
 Delta R.T. 0.00 min
 Lab File: VN057168.D
 Acq: 10 Aug 2019 11:26

Instrument :
 MSVOA_N
 ClientSampleId :
 VSTDIC150

Tot Ion: 63 Resp: 1694632
 Ion Ratio Lower Upper
 63 100
 65 30.9 26.2 39.4

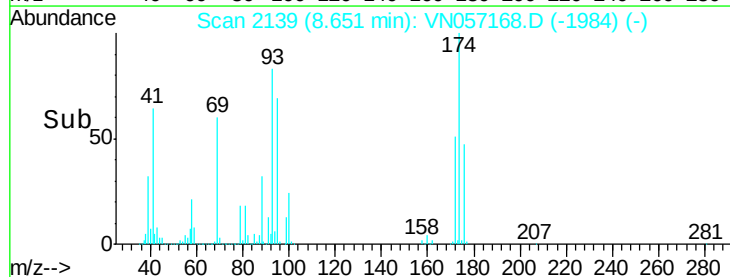
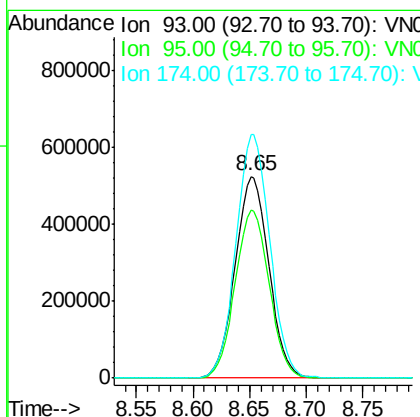
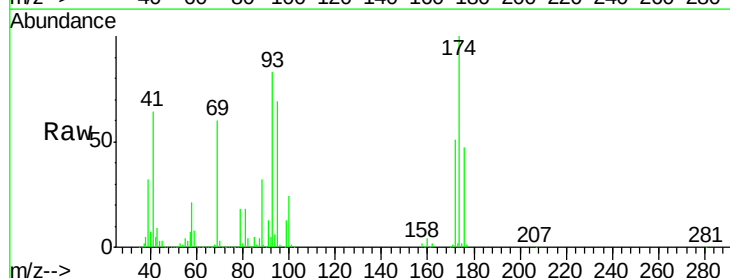
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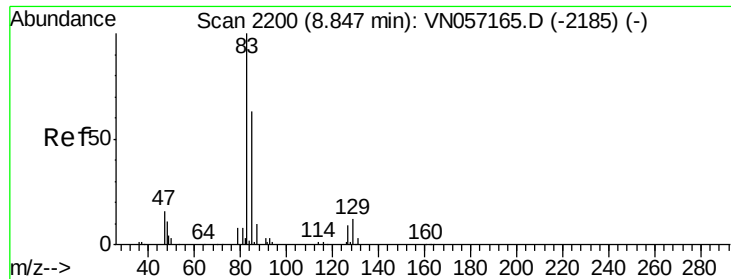
MMDadoda
 8/12/2019 3:55:37 PM



#40
 Dibromomethane
 Concen: 151.378 ug/l
 RT: 8.65 min Scan# 2139
 Delta R.T. -0.00 min
 Lab File: VN057168.D
 Acq: 10 Aug 2019 11:26

Tgt Ion: 93 Resp: 1093374
 Ion Ratio Lower Upper
 93 100
 95 84.0 0.0 165.0
 174 121.2 0.0 245.4





#41

Bromodichloromethane

Concen: 156.462 ug/l

RT: 8.85 min Scan# 2201

Delta R.T. 0.00 min

Lab File: VN057168.D

Acq: 10 Aug 2019 11:26

Instrument :

MSVOA_N

ClientSampleId :

VSTDIC150

Tot Ion: 83 Resp: 2247105

Ion Ratio Lower Upper

83 100

85 65.6 50.6 76.0

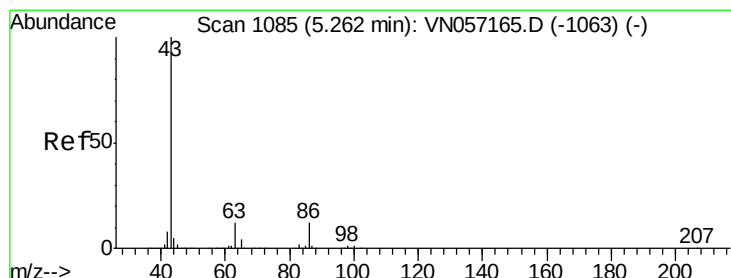
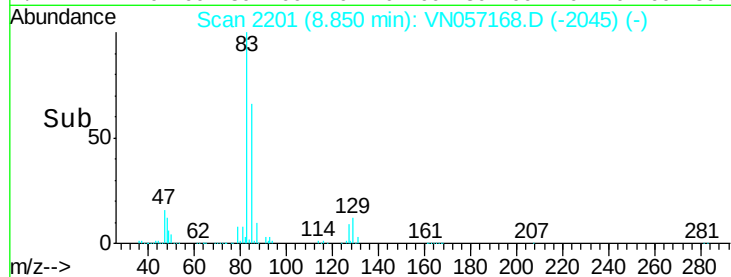
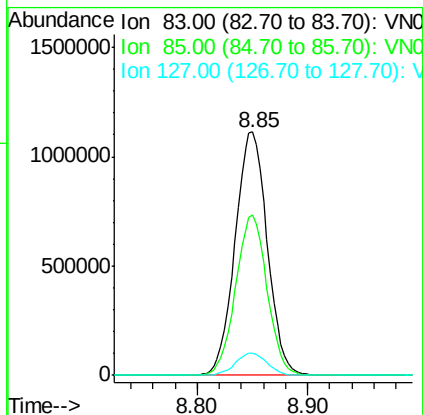
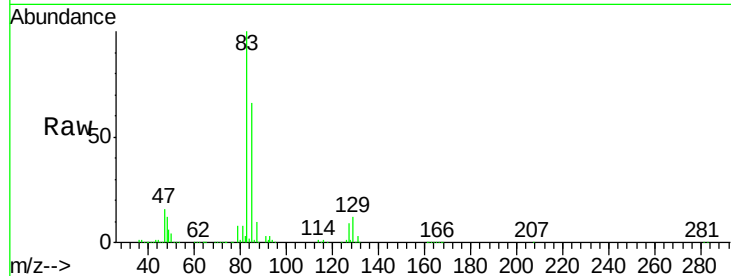
127 9.3 7.0 10.6

Manual Integrations

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#42

Vinyl Acetate

Concen: 774.698 ug/l

RT: 5.26 min Scan# 1085

Delta R.T. -0.00 min

Lab File: VN057168.D

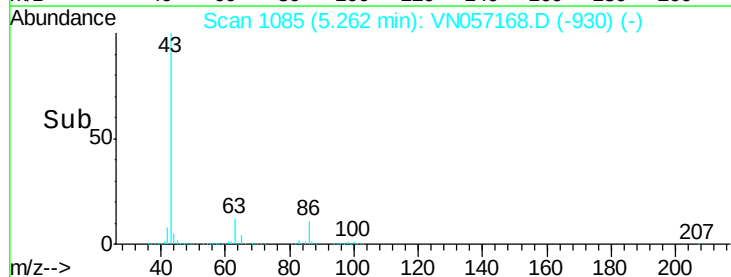
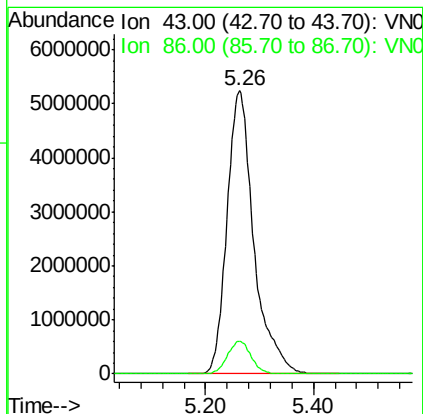
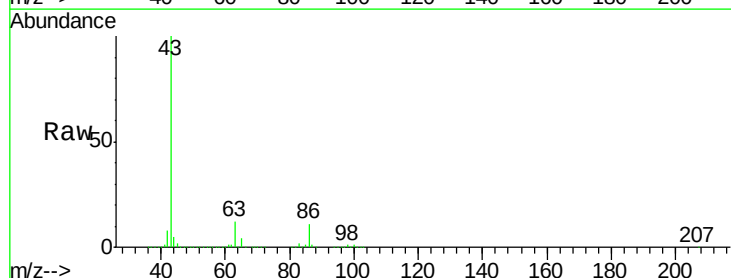
Acq: 10 Aug 2019 11:26

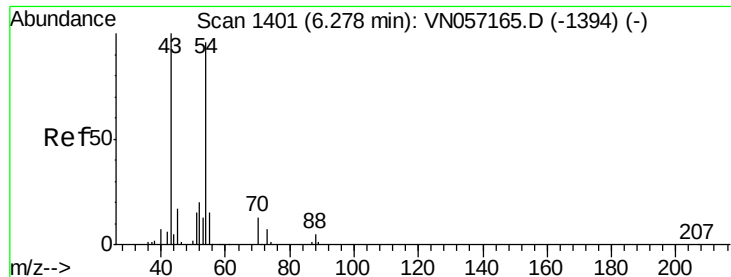
Tgt Ion: 43 Resp: 18079954

Ion Ratio Lower Upper

43 100

86 10.2 8.0 12.0





#43

Ethyl Acetate

Concen: 159.308 ug/l

RT: 6.28 min Scan# 1403

Delta R.T. 0.01 min

Lab File: VN057168.D

Acq: 10 Aug 2019 11:26

Instrument :

MSVOA_N

ClientSampleId :

VSTDIC150

Tot Ion: 43 Resp: 1649427

Ion Ratio Lower Upper

43 100

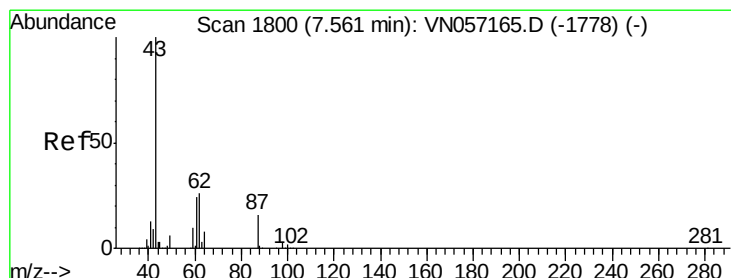
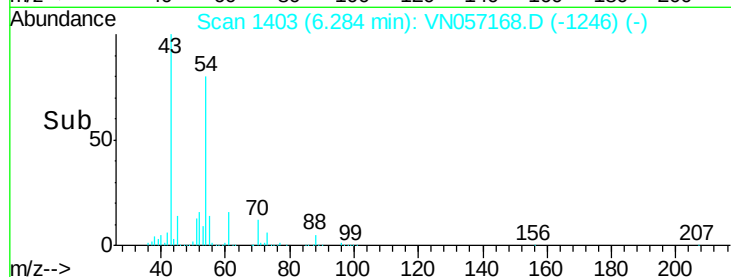
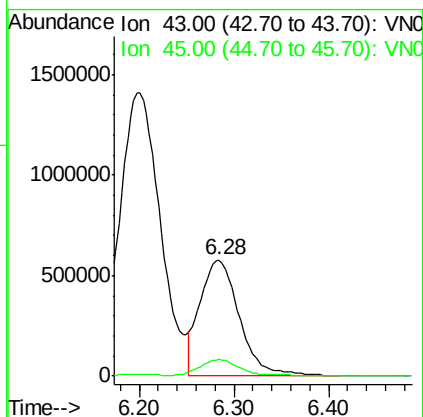
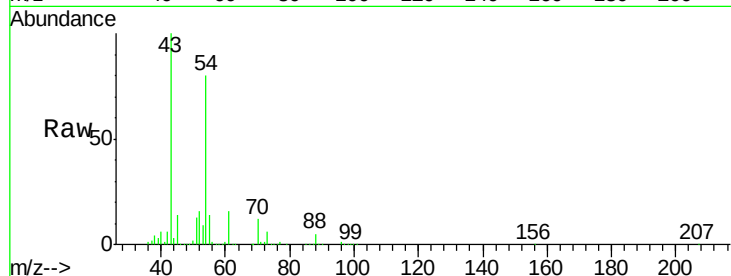
45 12.7 10.1 15.1

Manual Integrations

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#44

Isopropyl Acetate

Concen: 155.169 ug/l

RT: 7.56 min Scan# 1800

Delta R.T. -0.00 min

Lab File: VN057168.D

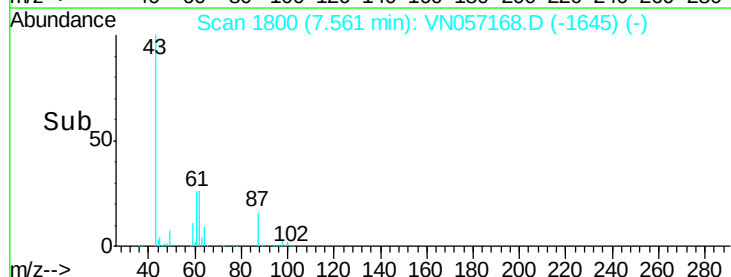
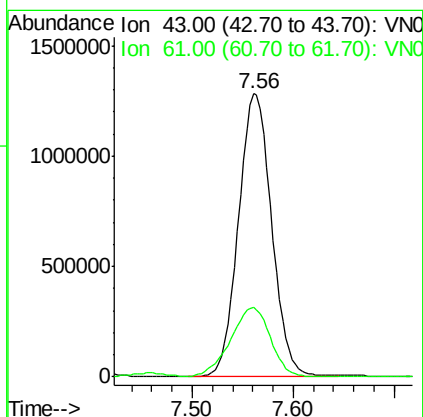
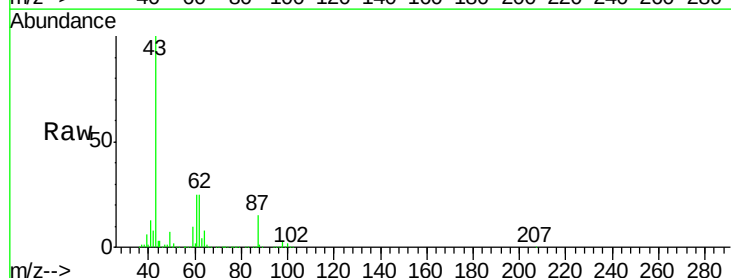
Acq: 10 Aug 2019 11:26

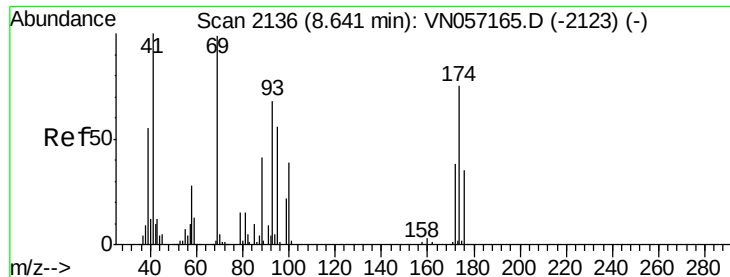
Tgt Ion: 43 Resp: 2917008

Ion Ratio Lower Upper

43 100

61 29.6 22.2 33.4





#45

1,4-Dioxane

Concen: 3038.786 ug/l

RT: 8.64 min Scan# 2137

Delta R.T. 0.00 min

Lab File: VN057168.D

Acq: 10 Aug 2019 11:26

Instrument :

MSVOA_N

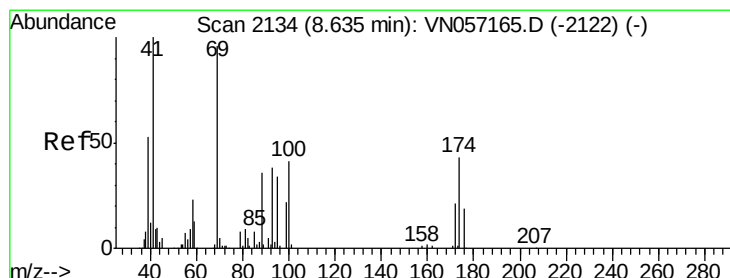
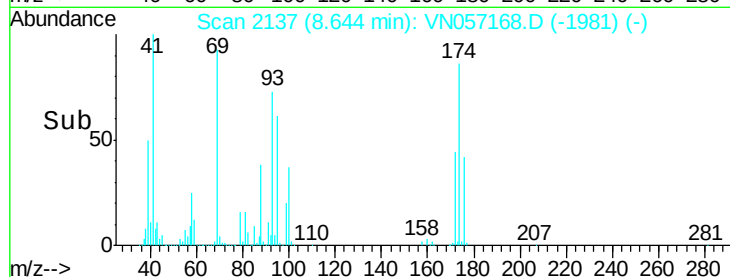
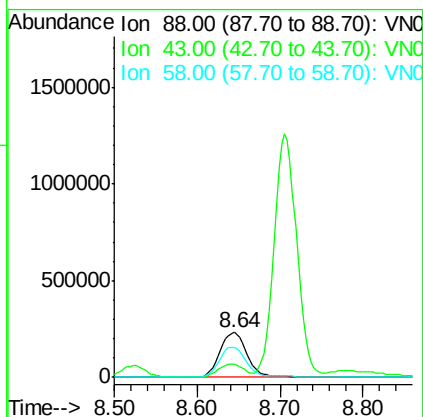
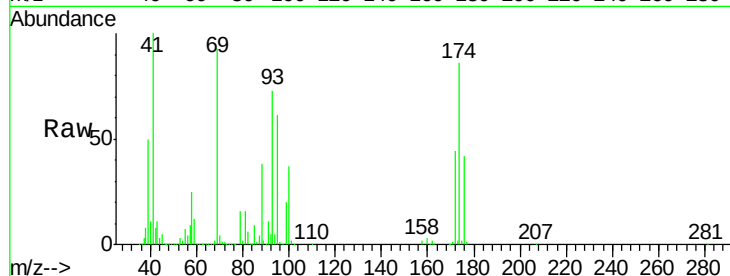
ClientSampleId :

VSTDIC150

Tot Ion:	88	Resp:	533093
Ion	Ratio	Lower	Upper
88	100		
43	27.6	20.5	30.7
58	65.2	53.8	80.8

Manual Integrations
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MMDadoda
8/12/2019 3:55:37 PM



#46

Methyl methacrylate

Concen: 161.763 ug/l

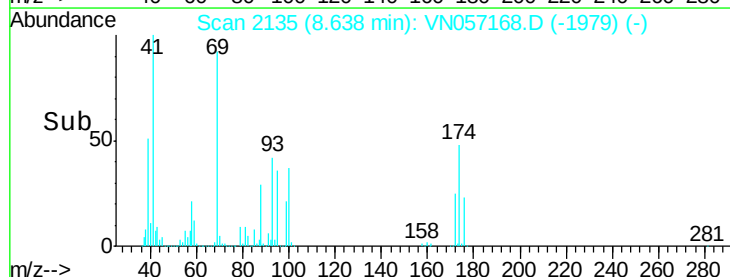
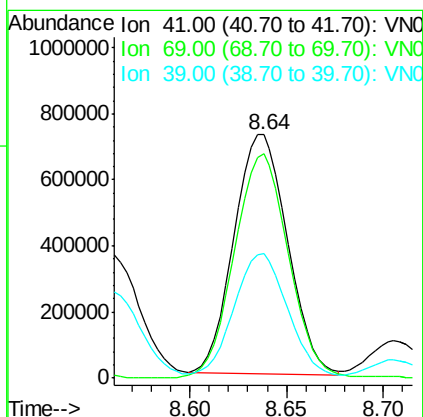
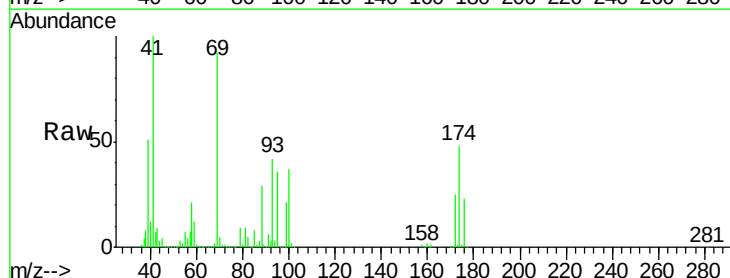
RT: 8.64 min Scan# 2135

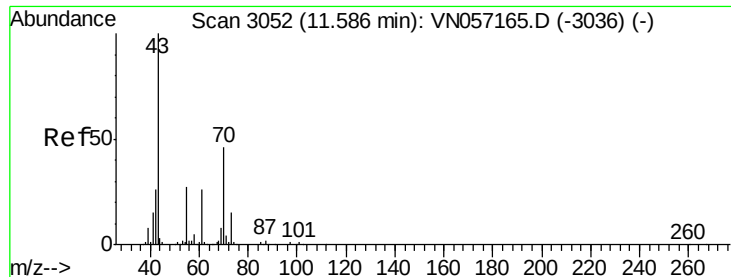
Delta R.T. 0.00 min

Lab File: VN057168.D

Acq: 10 Aug 2019 11:26

Tgt Ion:	41	Resp:	1386493
Ion	Ratio	Lower	Upper
41	100		
69	93.3	48.1	144.4
39	50.7	26.5	79.5





#47

n-amyl Acetate

Concen: 179.632 ug/l

RT: 11.58 min Scan# 3051

Delta R.T. -0.00 min

Lab File: VN057168.D

Acq: 10 Aug 2019 11:26

Instrument :

MSVOA_N

ClientSampleId :

VSTDIC150

Tot Ion: 43 Resp: 2484400

Ion Ratio Lower Upper

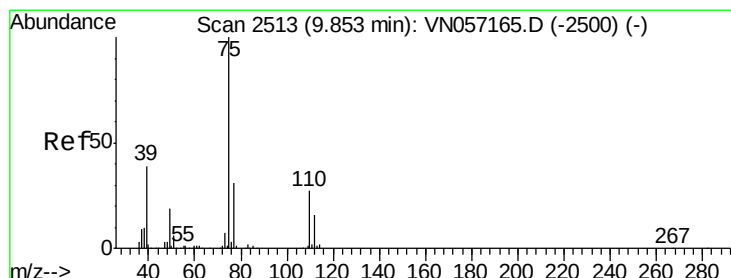
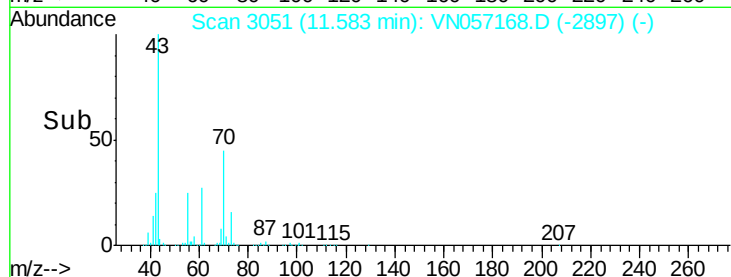
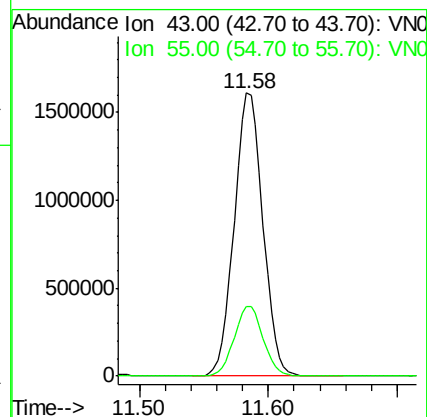
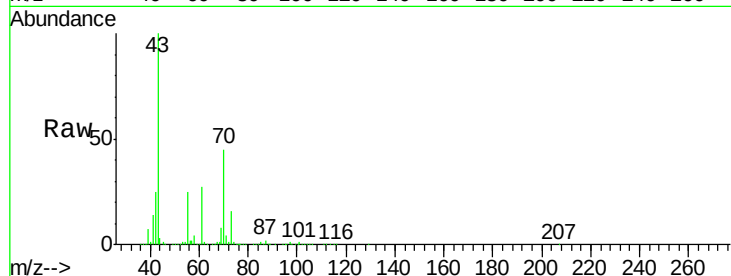
43 100

55 25.0 20.7 31.1

Manual Integrations
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MMDadoda

8/12/2019 3:55:37 PM



#48

t-1,3-Dichloropropene

Concen: 163.208 ug/l

RT: 9.85 min Scan# 2513

Delta R.T. -0.00 min

Lab File: VN057168.D

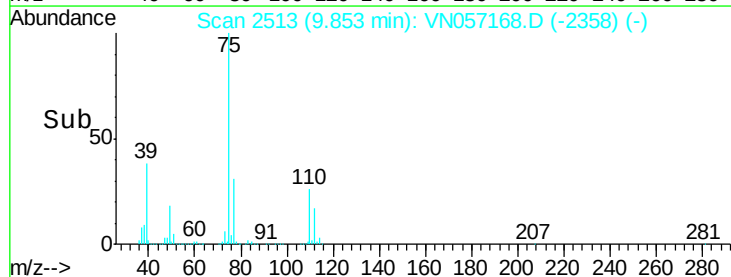
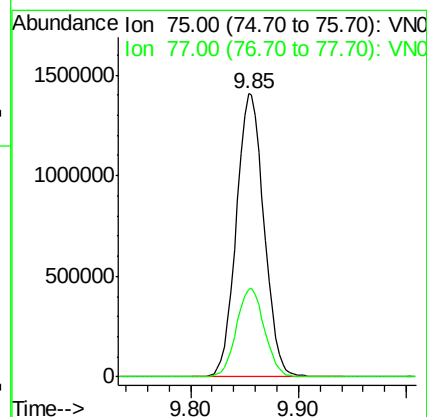
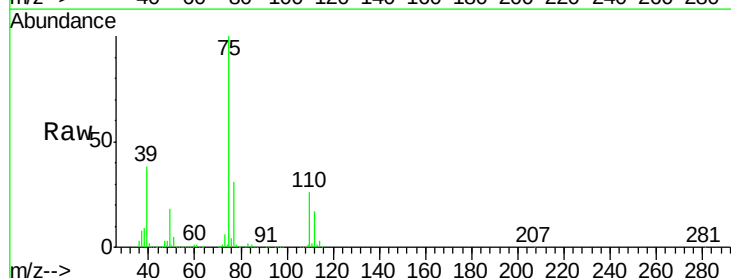
Acq: 10 Aug 2019 11:26

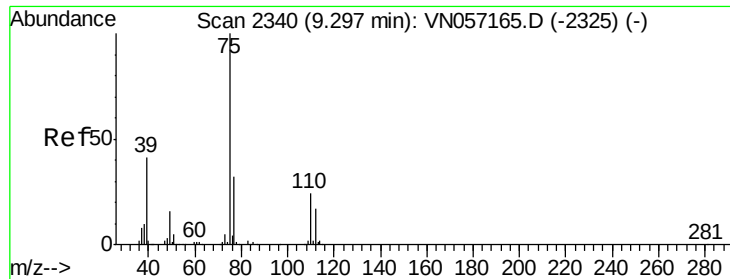
Tgt Ion: 75 Resp: 2499427

Ion Ratio Lower Upper

75 100

77 31.0 24.9 37.3





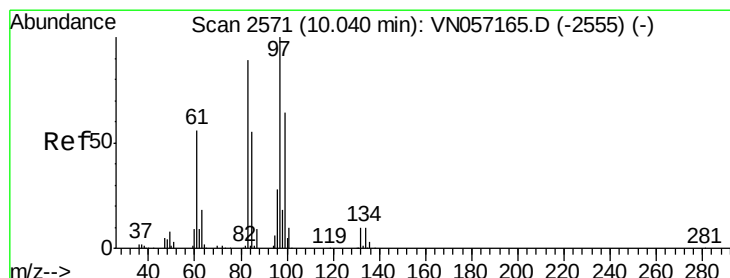
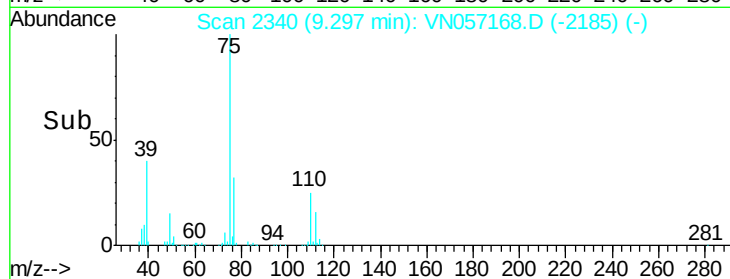
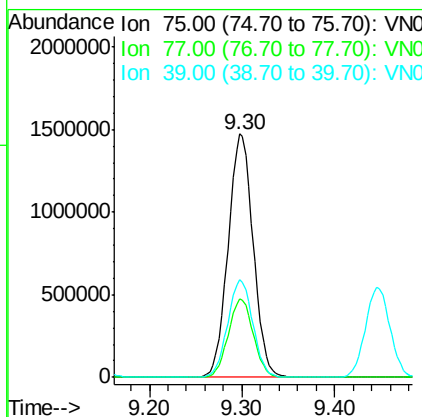
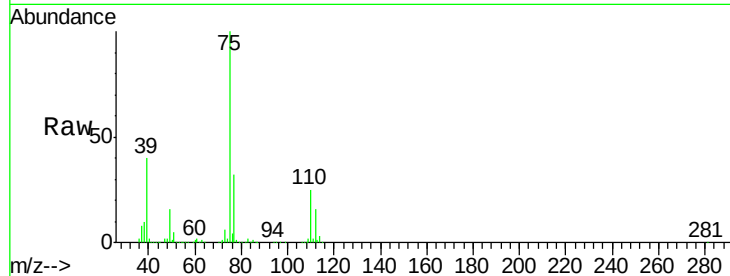
#49
 cis-1,3-Dichloropropene
 Concen: 175.151 ug/l
 RT: 9.30 min Scan# 2340
 Delta R.T. -0.00 min
 Lab File: VN057168.D
 Acq: 10 Aug 2019 11:26

Instrument :
 MSVOA_N
 ClientSampleId :
 VSTDIC150

Tot Ion	Ratio	Lower	Upper
75	100		
77	32.0	25.8	38.8
39	39.9	33.0	49.6

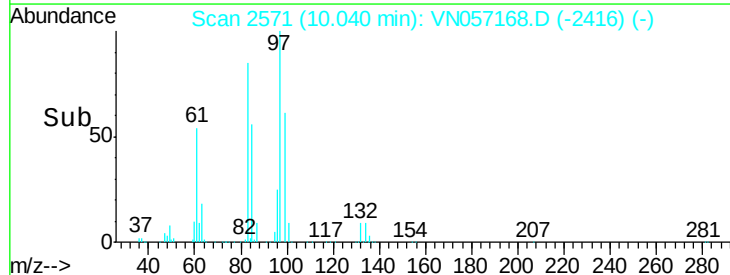
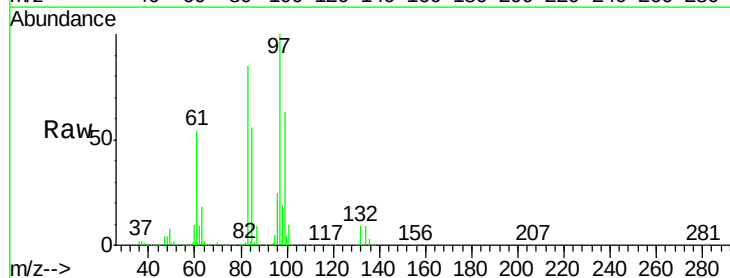
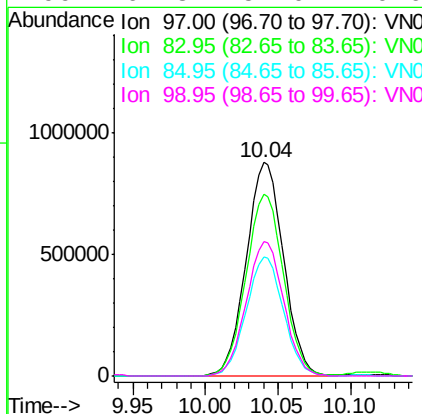
Manual Integrations
 APPROVED

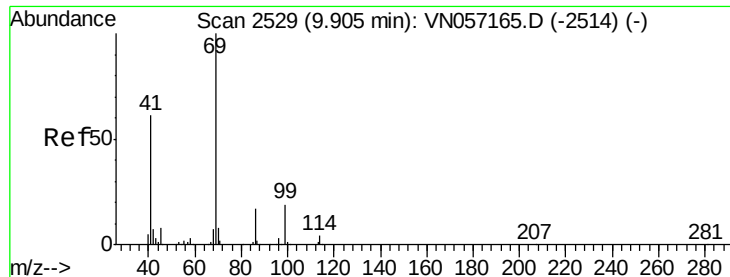
MMDadoda
 8/12/2019 3:55:37 PM



#50
 1,1,2-Trichloroethane
 Concen: 152.636 ug/l
 RT: 10.04 min Scan# 2571
 Delta R.T. -0.00 min
 Lab File: VN057168.D
 Acq: 10 Aug 2019 11:26

Tgt Ion	Ratio	Lower	Upper
97	100		
83	85.0	71.4	107.0
85	55.8	43.8	65.8
99	62.8	51.0	76.6





#51

Ethyl methacrylate

Concen: 165.243 ug/l

RT: 9.90 min Scan# 2529

Delta R.T. -0.00 min

Lab File: VN057168.D

Acq: 10 Aug 2019 11:26

Instrument :

MSVOA_N

ClientSampleId :

VSTDIC150

Tot Ion: 69 Resp: 2407300

Ion Ratio Lower Upper

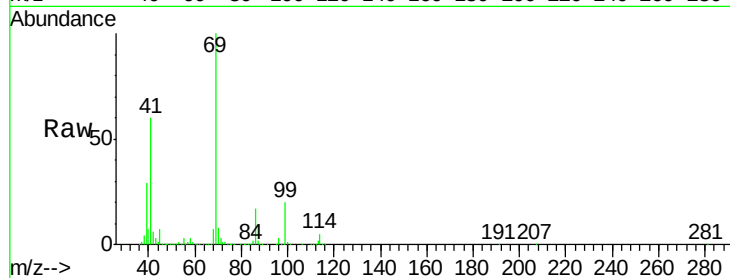
69 100

41 59.9 30.4 91.2

39 29.1 14.8 44.4

Manual Integrations
APPROVED

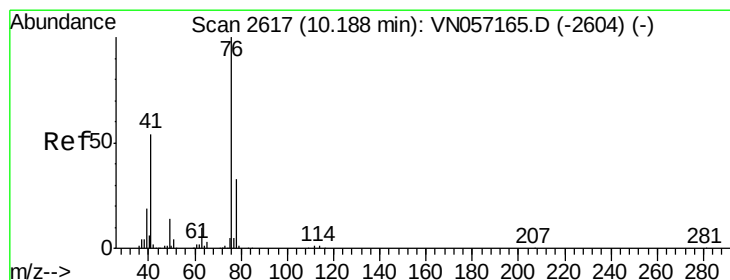
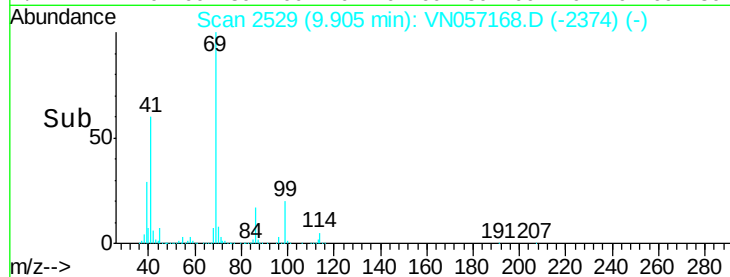
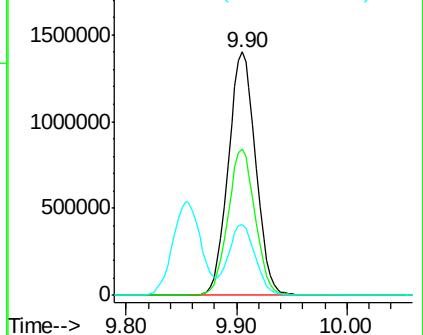
MMDadoda
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Abundance Ion 69.00 (68.70 to 69.70): VN057168.D (-2374) (-)

Ion 41.00 (40.70 to 41.70): VN057168.D (-2374) (-)

Ion 39.00 (38.70 to 39.70): VN057168.D (-2374) (-)



#52

1,3-Dichloropropane

Concen: 151.775 ug/l

RT: 10.19 min Scan# 2618

Delta R.T. 0.00 min

Lab File: VN057168.D

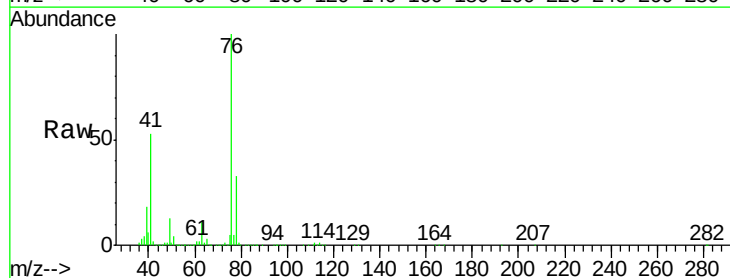
Acq: 10 Aug 2019 11:26

Tgt Ion: 76 Resp: 2611596

Ion Ratio Lower Upper

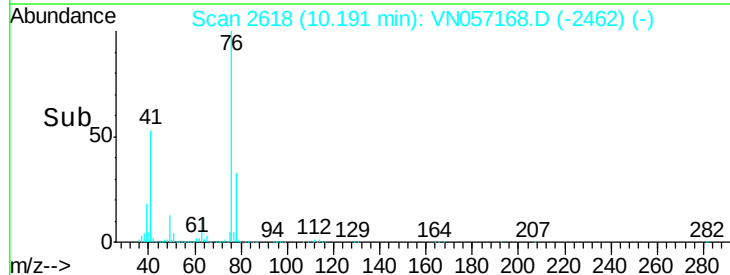
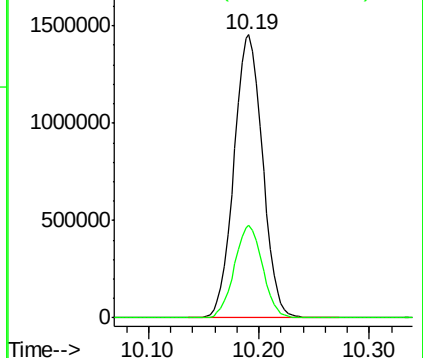
76 100

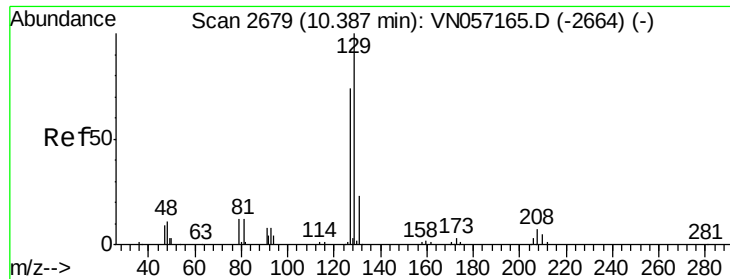
78 32.2 0.0 65.0



Abundance Ion 76.00 (75.70 to 76.70): VN057168.D (-2462) (-)

Ion 78.00 (77.70 to 78.70): VN057168.D (-2462) (-)





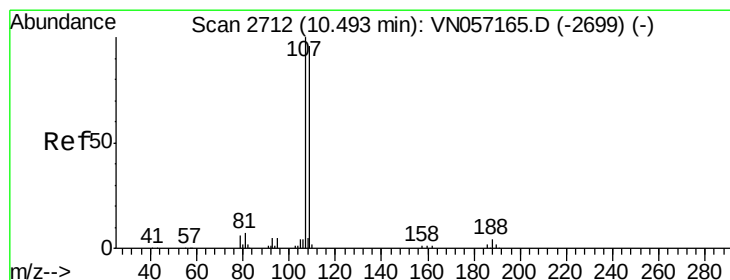
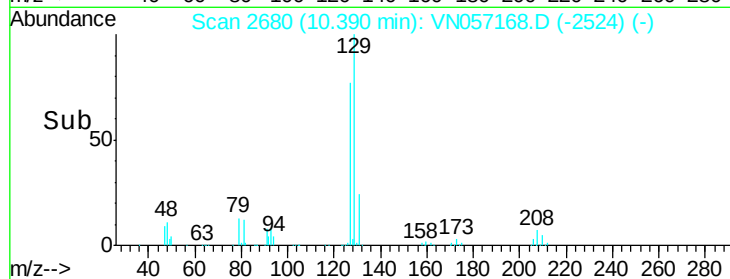
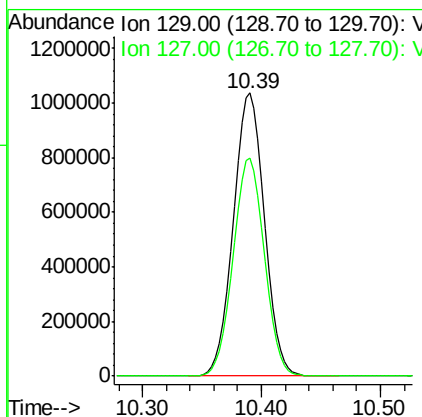
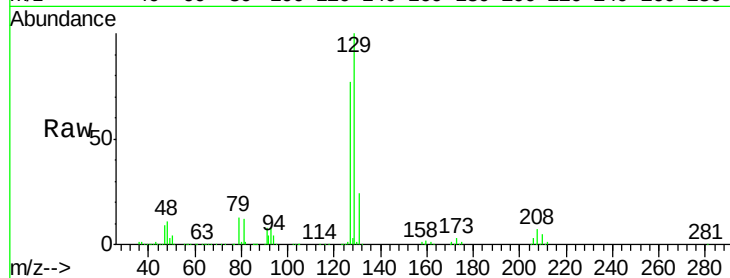
#53
 Dibromochloromethane
 Concen: 161.279 ug/l
 RT: 10.39 min Scan# 2680
 Delta R.T. 0.00 min
 Lab File: VN057168.D
 Acq: 10 Aug 2019 11:26

Instrument :
 MSVOA_N
 ClientSampleId :
 VSTDIC150

Tot Ion:129 Resp: 1876041
 Ion Ratio Lower Upper
 129 100
 127 77.6 38.2 114.6

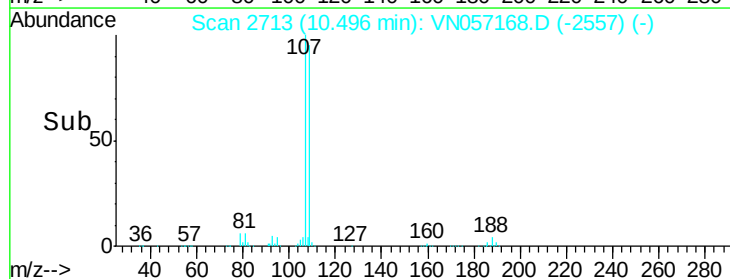
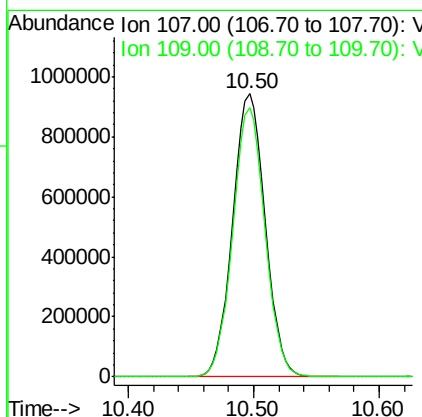
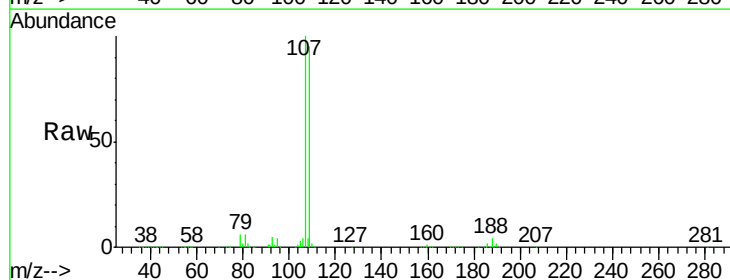
Manual Integrations
 APPROVED

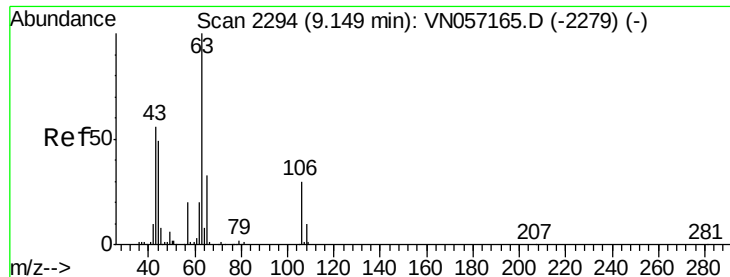
MMDadoda
 8/12/2019 3:55:37 PM



#54
 1,2-Dibromoethane
 Concen: 157.588 ug/l
 RT: 10.50 min Scan# 2713
 Delta R.T. 0.00 min
 Lab File: VN057168.D
 Acq: 10 Aug 2019 11:26

Tgt Ion:107 Resp: 1698167
 Ion Ratio Lower Upper
 107 100
 109 94.3 76.8 115.2





#55

2-Chloroethyl vinyl ether

Concen: 919.487 ug/l

RT: 9.15 min Scan# 2294

Delta R.T. -0.00 min

Lab File: VN057168.D

Acq: 10 Aug 2019 11:26

Instrument :

MSVOA_N

ClientSampleId :

VSTDIC150

Tot Ion: 63 Resp: 3782210

Ion Ratio Lower Upper

63 100

65 32.2 26.0 39.0

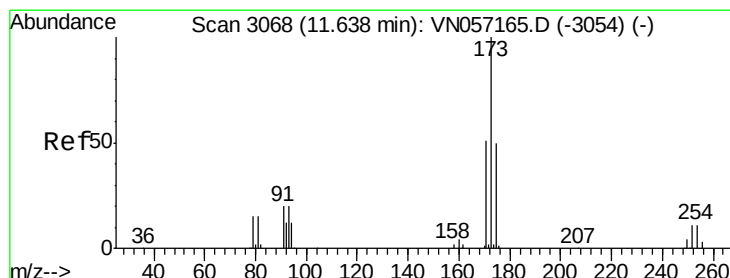
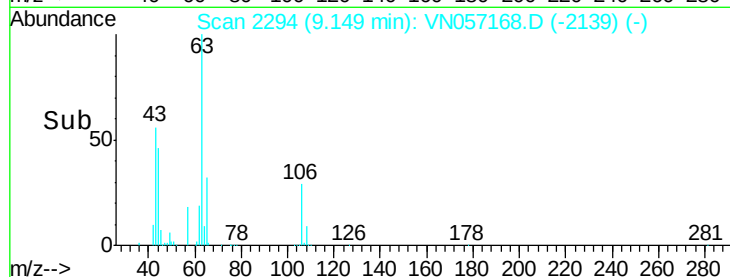
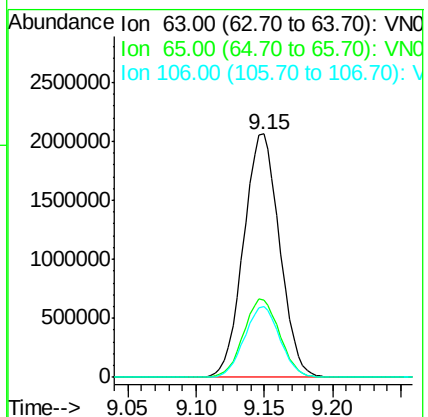
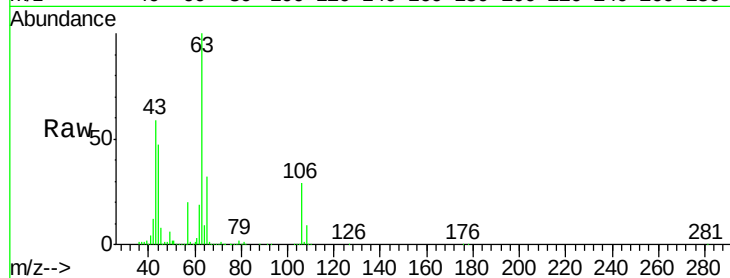
106 28.9 23.3 34.9

Manual Integrations

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8/12/2019 3:55:37 PM



#56

Bromoform

Concen: 169.083 ug/l

RT: 11.64 min Scan# 3068

Delta R.T. -0.00 min

Lab File: VN057168.D

Acq: 10 Aug 2019 11:26

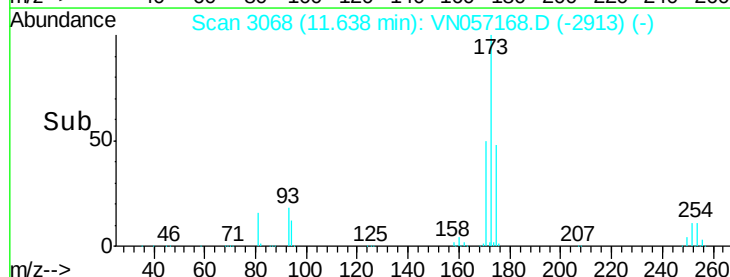
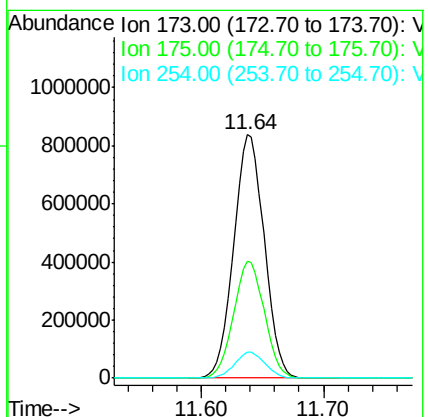
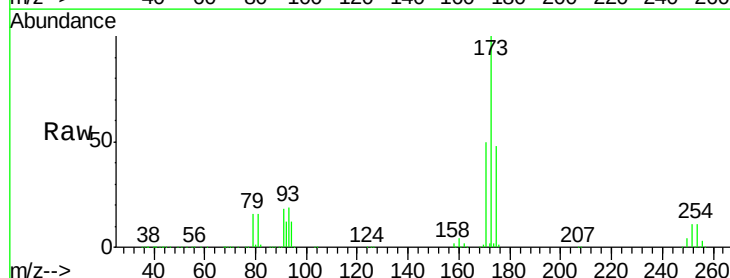
Tgt Ion:173 Resp: 1453398

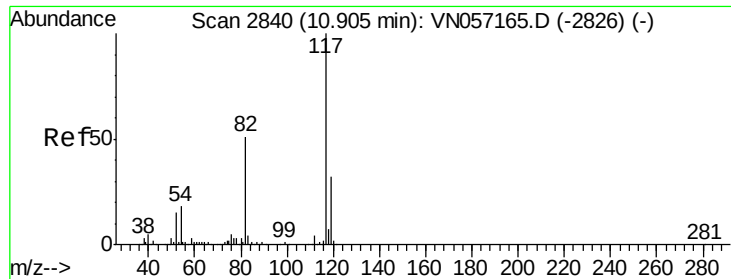
Ion Ratio Lower Upper

173 100

175 48.2 39.0 58.4

254 10.6 8.6 13.0





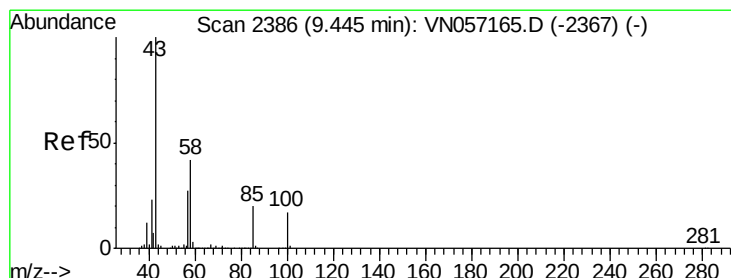
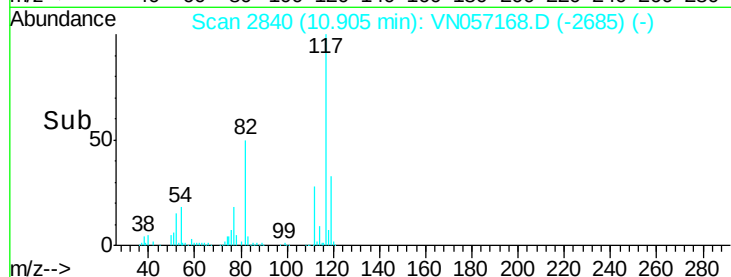
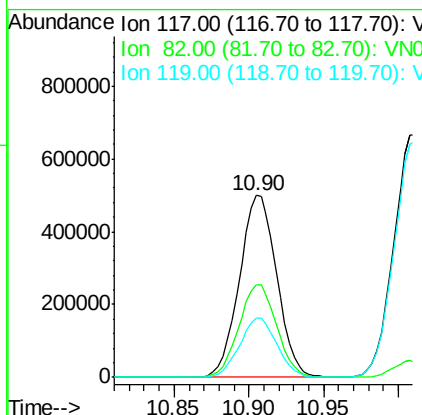
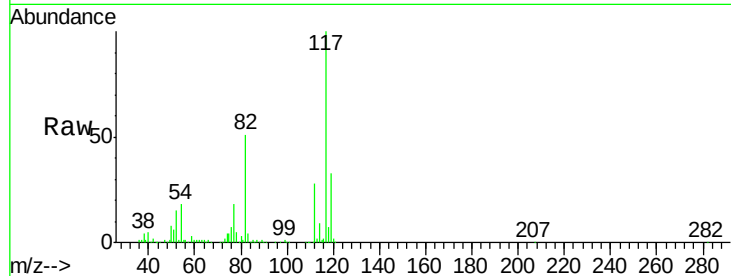
#57
Chlorobenzene-d5
Concen: 30.000 ug/l
RT: 10.90 min Scan# 2840
Delta R.T. -0.00 min
Lab File: VN057168.D
Acq: 10 Aug 2019 11:26

Instrument :
MSVOA_N
ClientSampleId :
VSTDIC150

Tot Ion	Ratio	Lower	Upper
117	100		
82	51.3	41.5	62.3
119	32.5	26.1	39.1

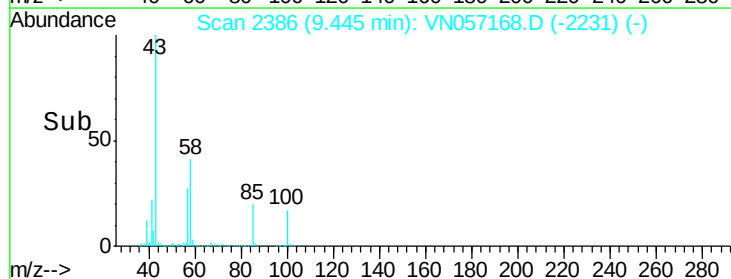
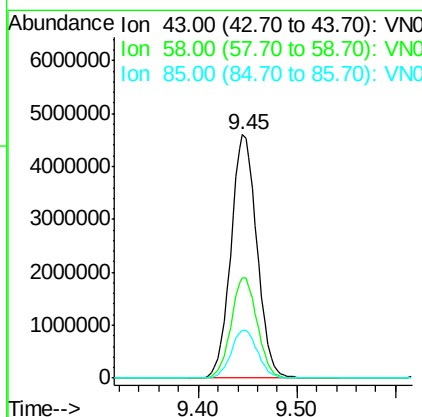
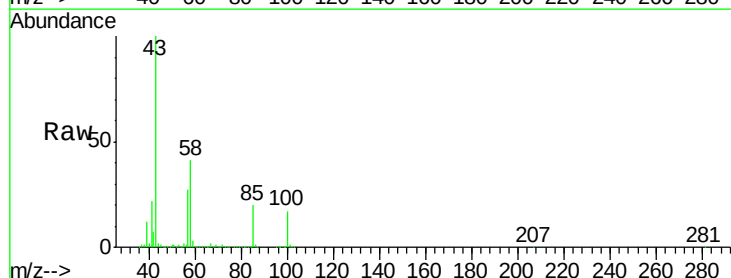
Manual Integrations
APPROVED

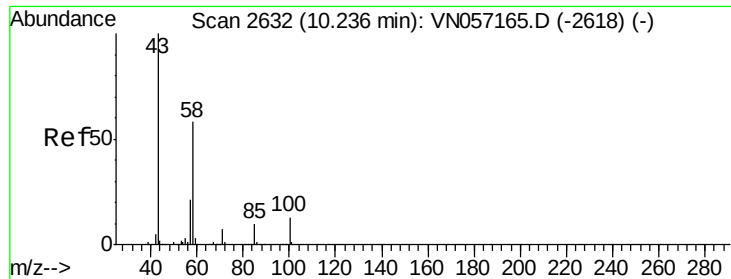
MMDadoda
8/12/2019 3:55:37 PM



#58
4-Methyl-2-Pentanone
Concen: 756.841 ug/l
RT: 9.45 min Scan# 2386
Delta R.T. -0.00 min
Lab File: VN057168.D
Acq: 10 Aug 2019 11:26

Tgt Ion	Ratio	Lower	Upper
43	100		
58	41.6	32.8	49.2
85	20.1	16.4	24.6





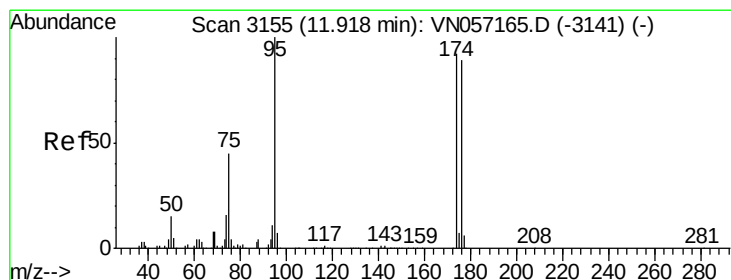
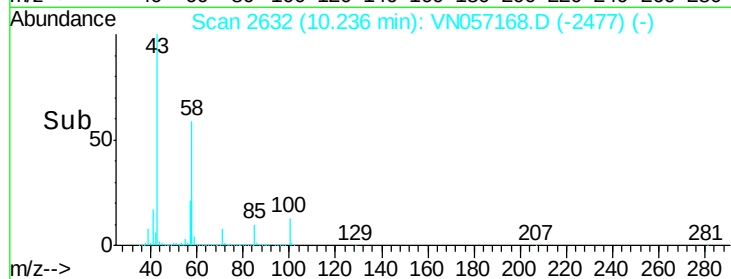
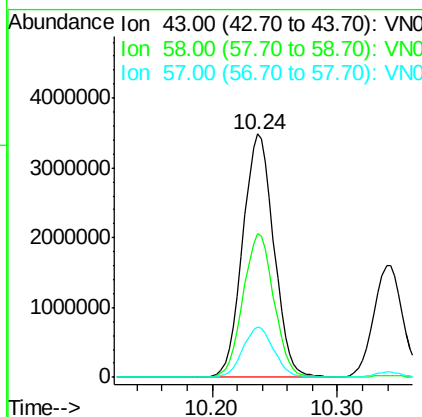
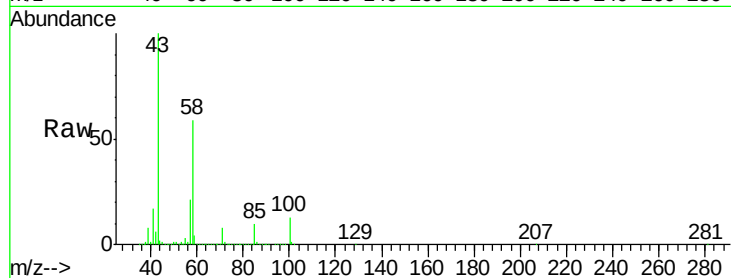
#59
2-Hexanone
Concen: 752.125 ug/l
RT: 10.24 min Scan# 2632
Delta R.T. -0.00 min
Lab File: VN057168.D
Acq: 10 Aug 2019 11:26

Instrument :
MSVOA_N
ClientSampleId :
VSTDIC150

Tot Ion: 43 Resp: 6036814
Ion Ratio Lower Upper
43 100
58 58.5 45.4 68.2
57 20.5 16.1 24.1

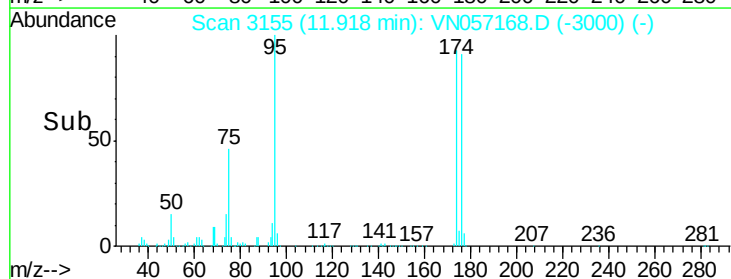
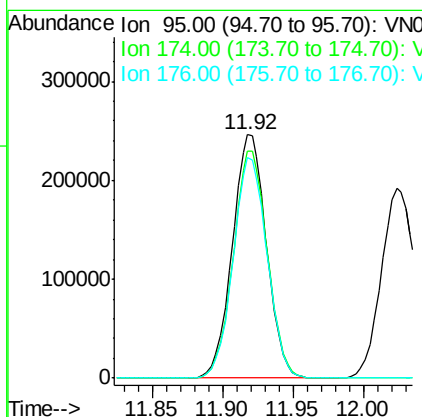
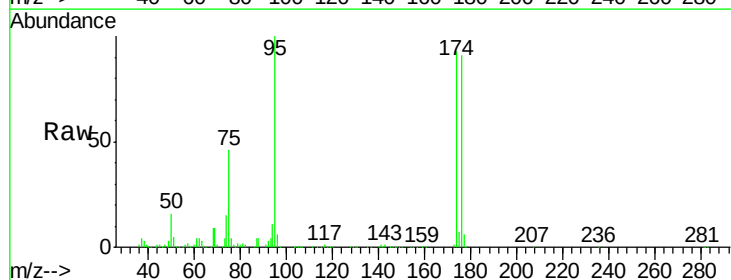
Manual Integrations
APPROVED

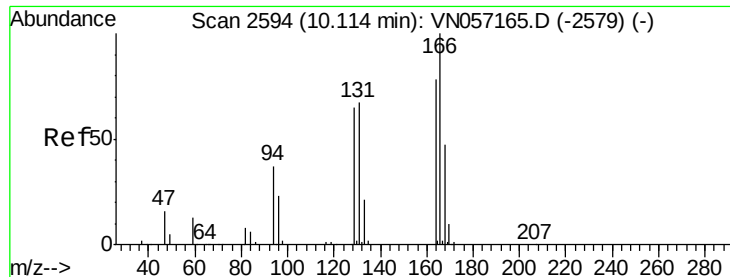
MMDadoda
8/12/2019 3:55:37 PM



#60
4-Bromofluorobenzene
Concen: 32.066 ug/l
RT: 11.92 min Scan# 3155
Delta R.T. -0.00 min
Lab File: VN057168.D
Acq: 10 Aug 2019 11:26

Tgt Ion: 95 Resp: 414941
Ion Ratio Lower Upper
95 100
174 93.2 74.9 112.3
176 90.4 72.1 108.1





#61

Tetrachloroethene

Concen: 132.439 ug/l

RT: 10.11 min Scan# 2594

Delta R.T. -0.00 min

Lab File: VN057168.D

Acq: 10 Aug 2019 11:26

Instrument :

MSVOA_N

ClientSampleId :

VSTDIC150

Tot Ion:164 Resp: 1766519

Ion Ratio Lower Upper

164 100

166 126.7 103.0 154.6

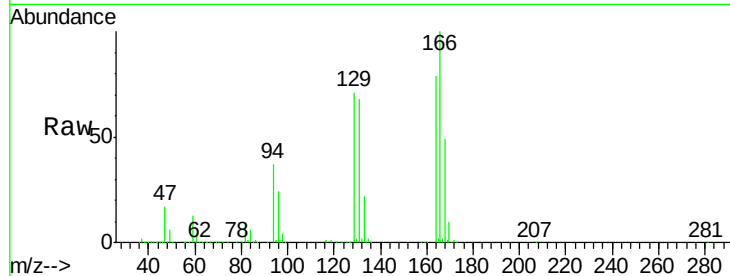
129 89.8 67.3 100.9

131 85.7 68.5 102.7

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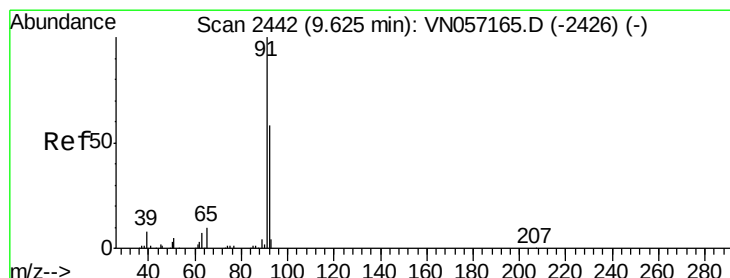
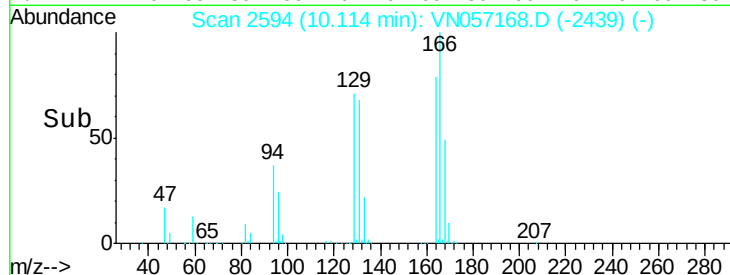
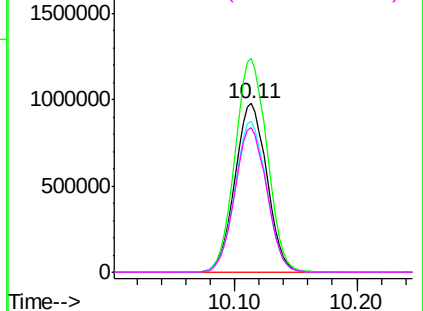


Abundance Ion 163.85 (163.55 to 164.55): V

Ion 165.80 (165.50 to 166.50): V

Ion 128.90 (128.60 to 129.60): V

Ion 130.90 (130.60 to 131.60): V



#62

Toluene

Concen: 145.530 ug/l

RT: 9.63 min Scan# 2442

Delta R.T. -0.00 min

Lab File: VN057168.D

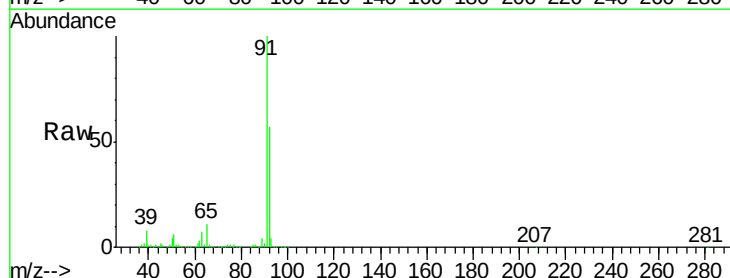
Acq: 10 Aug 2019 11:26

Tgt Ion: 91 Resp: 7198748

Ion Ratio Lower Upper

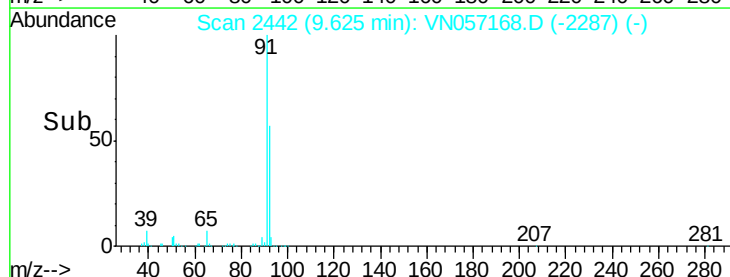
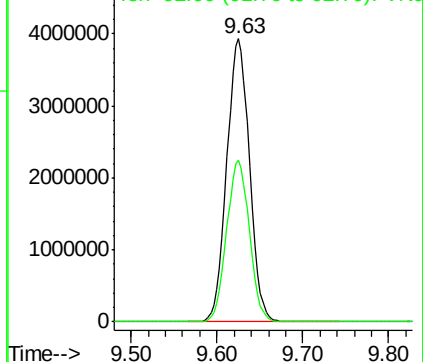
91 100

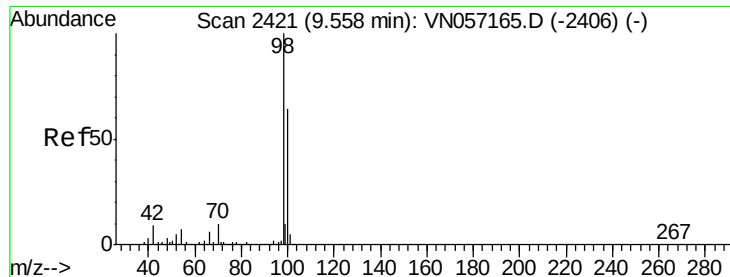
92 57.3 46.1 69.1



Abundance Ion 91.00 (90.70 to 91.70): V

Ion 92.00 (91.70 to 92.70): V





#63

Toluene-d8

Concen: 28.956 ug/l

RT: 9.56 min Scan# 2421

Delta R.T. -0.00 min

Lab File: VN057168.D

Acq: 10 Aug 2019 11:26

Instrument :

MSVOA_N

ClientSampleId :

VSTDIC150

Tot Ion: 98 Resp: 1161616

Ion Ratio Lower Upper

98 100

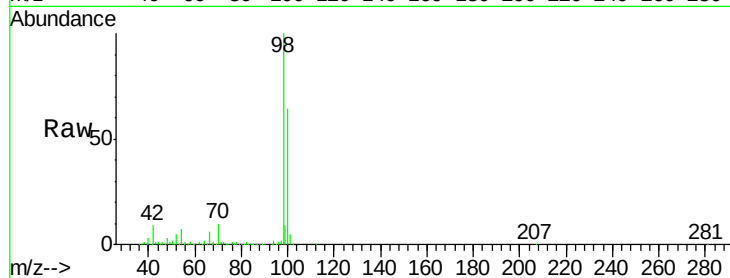
100 65.2 52.4 78.6

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Abundance Ion 98.00 (97.70 to 98.70): VN057165.D (-2406) (-)

Ion 100.00 (99.70 to 100.70): VN057165.D (-2406) (-)

800000

600000

400000

200000

0

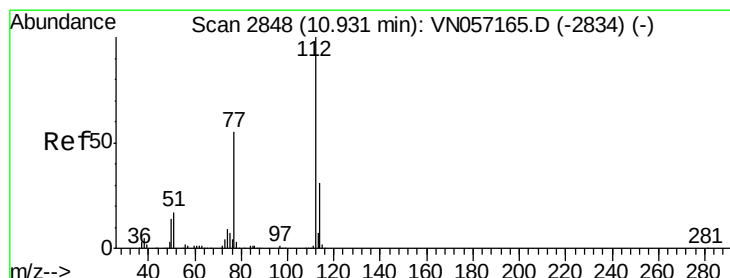
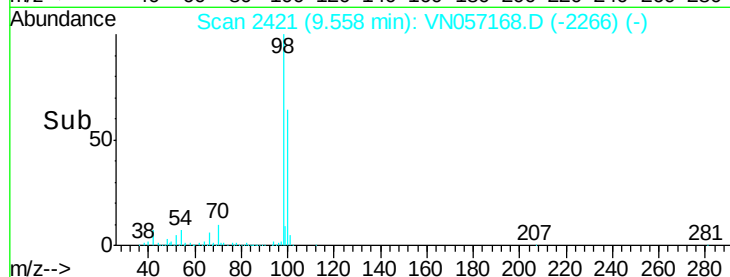
9.50

9.56

9.60

9.70

Time-->



#64

Chlorobenzene

Concen: 150.974 ug/l

RT: 10.93 min Scan# 2849

Delta R.T. 0.00 min

Lab File: VN057168.D

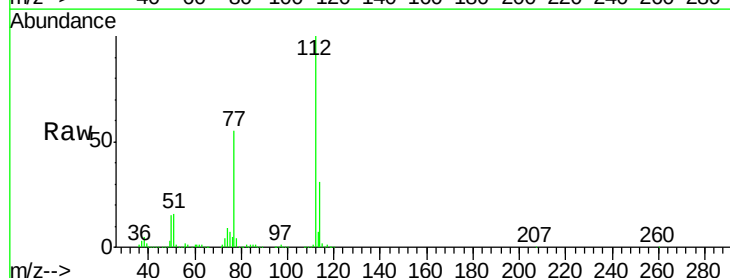
Acq: 10 Aug 2019 11:26

Tgt Ion: 112 Resp: 4593270

Ion Ratio Lower Upper

112 100

114 31.5 25.0 37.6



Abundance Ion 112.00 (111.70 to 112.70): VN057165.D (-2834) (-)

Ion 114.00 (113.70 to 114.70): VN057165.D (-2834) (-)

3000000

2500000

2000000

1500000

1000000

500000

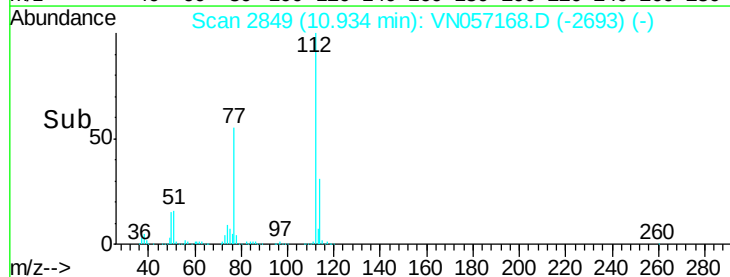
0

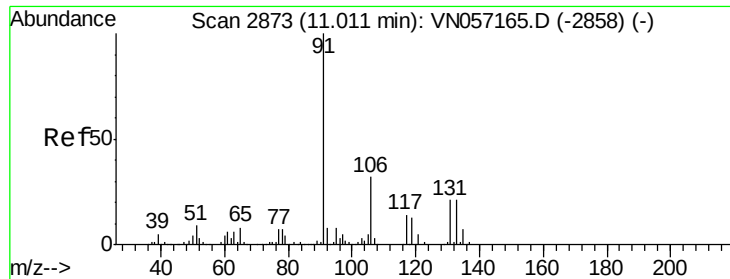
10.90

10.93

11.00

Time-->





#65

1,1,1,2-Tetrachloroethane

Concen: 148.822 ug/l

RT: 11.01 min Scan# 2873

Delta R.T. -0.00 min

Lab File: VN057168.D

Acq: 10 Aug 2019 11:26

Instrument :

MSVOA_N

ClientSampleId :

VSTDIC150

Tot Ion:131 Resp: 1736342

Ion Ratio Lower Upper

131 100

133 96.1 0.0 196.0

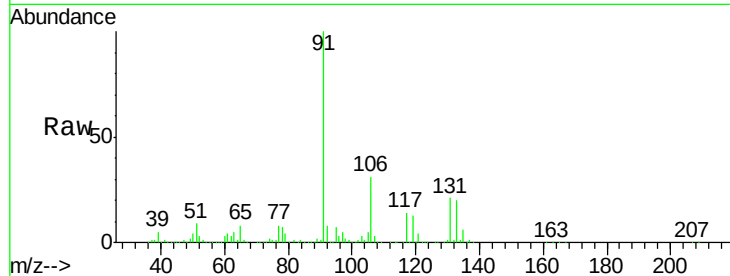
119 65.5 0.0 132.6

Manual Integrations

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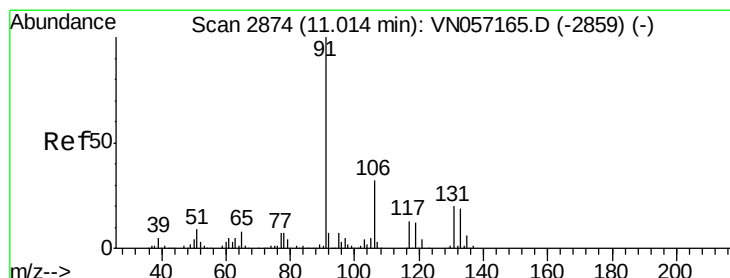
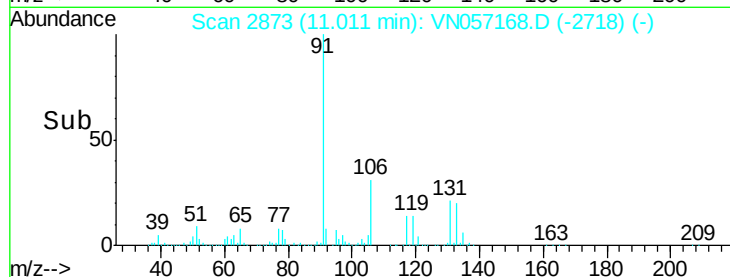
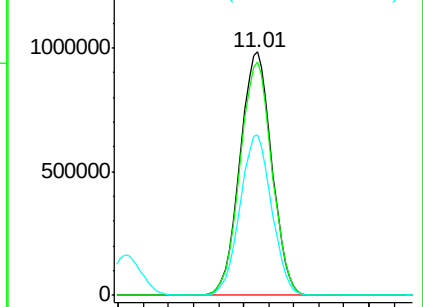
8/12/2019 3:55:37 PM



Abundance Ion 131.00 (130.70 to 131.70): V

Ion 133.00 (132.70 to 133.70): V

Ion 119.00 (118.70 to 119.70): V



#66

Ethyl Benzene

Concen: 152.480 ug/l

RT: 11.01 min Scan# 2874

Delta R.T. -0.00 min

Lab File: VN057168.D

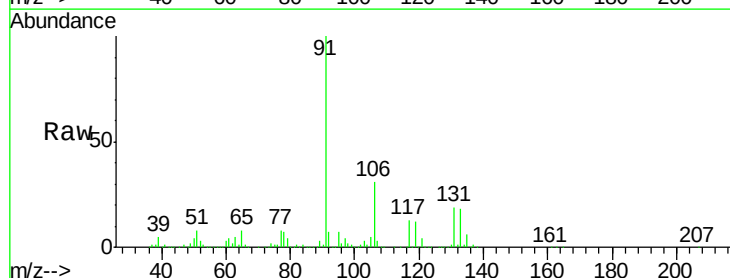
Acq: 10 Aug 2019 11:26

Tgt Ion: 91 Resp: 8085213

Ion Ratio Lower Upper

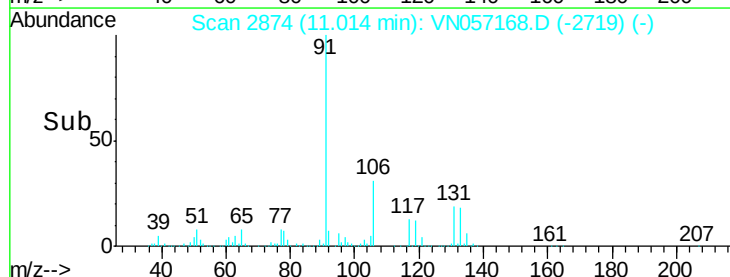
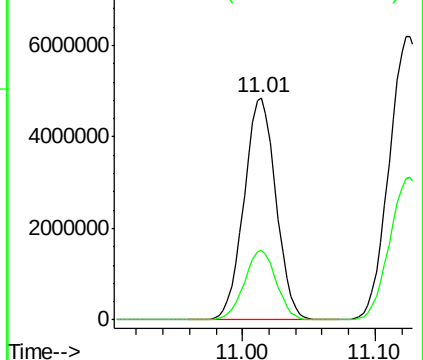
91 100

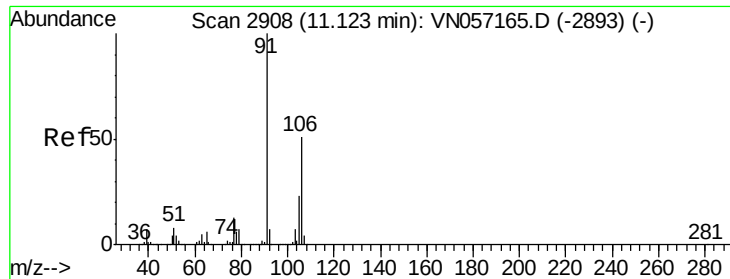
106 31.4 25.3 37.9



Abundance Ion 91.00 (90.70 to 91.70): V

Ion 106.00 (105.70 to 106.70): V





#67

m/p-Xylenes

Concen: 306.483 ug/l

RT: 11.13 min Scan# 2909

Delta R.T. 0.00 min

Lab File: VN057168.D

Acq: 10 Aug 2019 11:26

Instrument :

MSVOA_N

ClientSampleId :

VSTDIC150

Tot Ion:106 Resp: 6128515

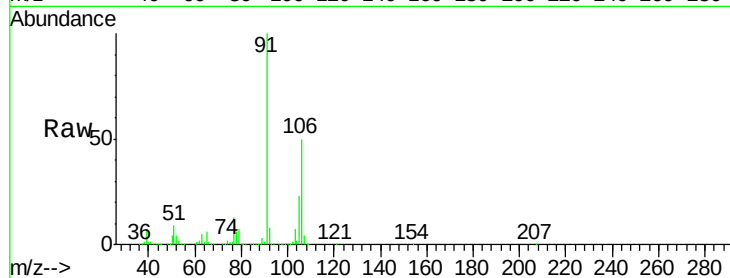
Ion Ratio Lower Upper

106 100

91 201.4 160.5 240.7

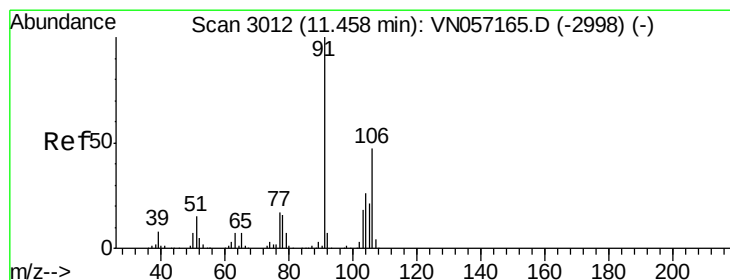
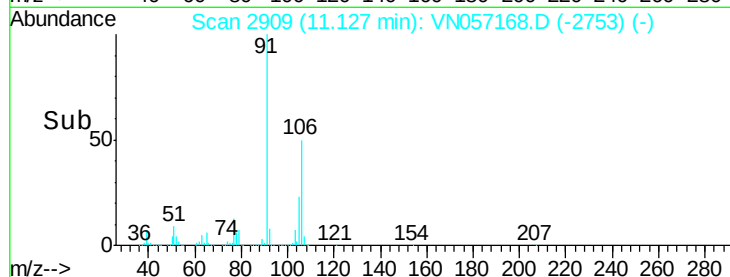
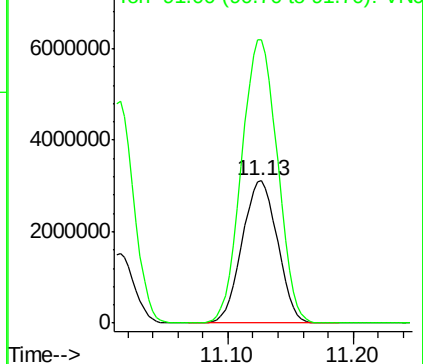
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Abundance Ion 106.00 (105.70 to 106.70): V

Ion 91.00 (90.70 to 91.70): VN0



#68

o-Xylene

Concen: 152.890 ug/l

RT: 11.46 min Scan# 3012

Delta R.T. -0.00 min

Lab File: VN057168.D

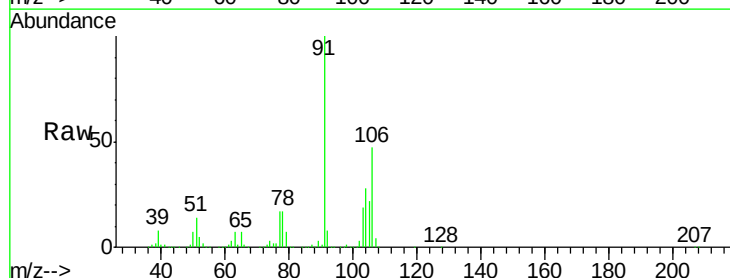
Acq: 10 Aug 2019 11:26

Tgt Ion:106 Resp: 2968147

Ion Ratio Lower Upper

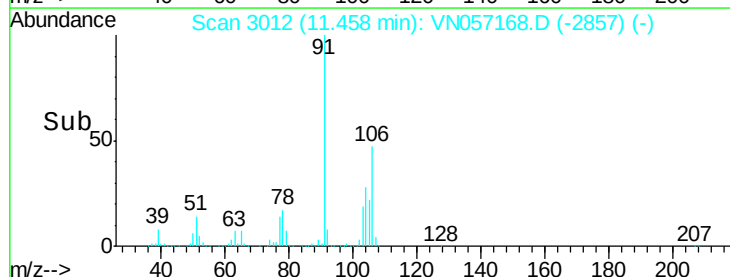
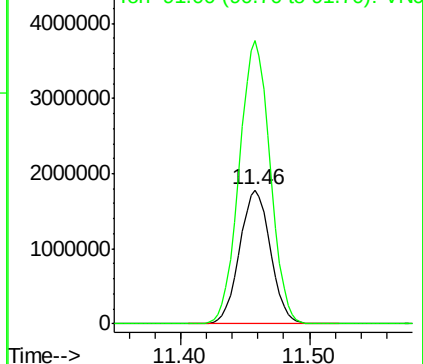
106 100

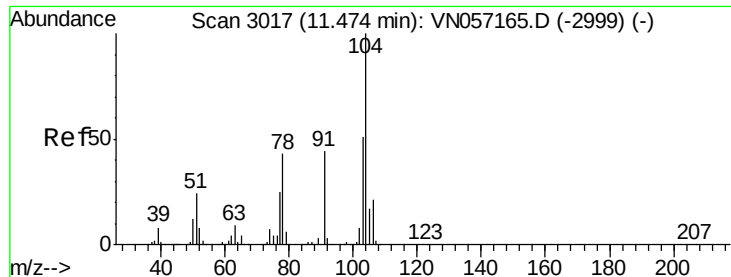
91 211.3 105.3 315.8



Abundance Ion 106.00 (105.70 to 106.70): V

Ion 91.00 (90.70 to 91.70): VN0





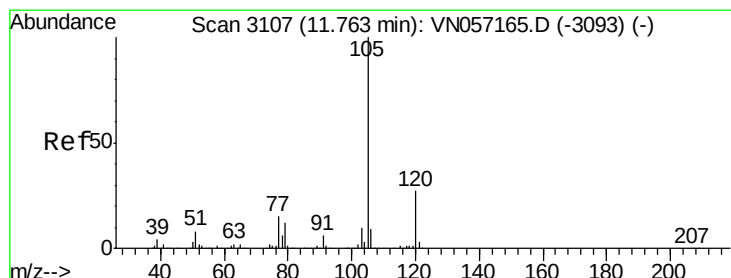
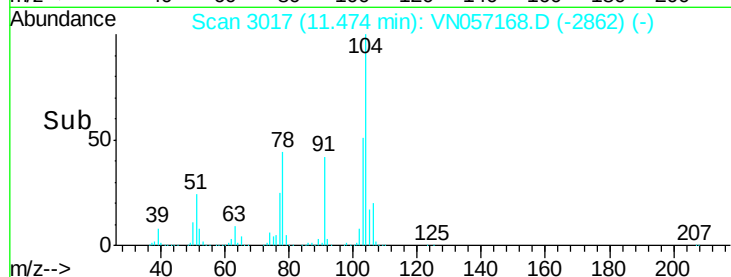
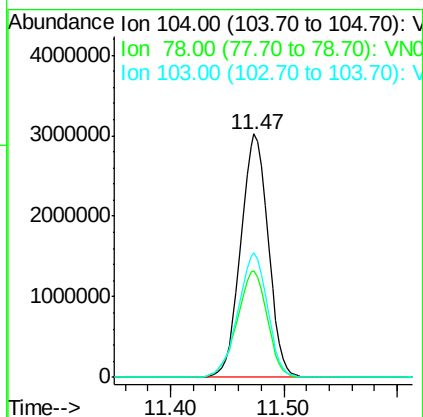
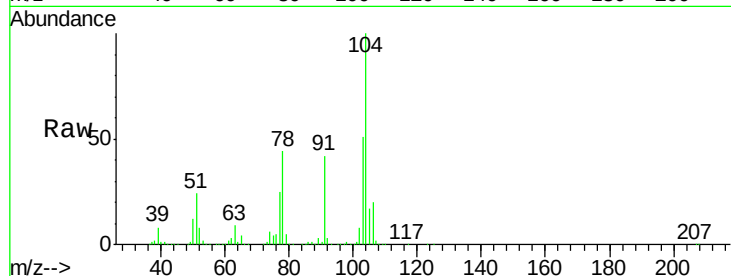
#69
Stvrene
Concen: 164.324 ug/l
RT: 11.47 min Scan# 3017
Delta R.T. -0.00 min
Lab File: VN057168.D
Acq: 10 Aug 2019 11:26

Instrument :
MSVOA_N
ClientSampleId :
VSTDIC150

Tot Ion	Ratio	Lower	Upper
104	100		
78	47.8	38.7	58.1
103	54.8	44.3	66.5

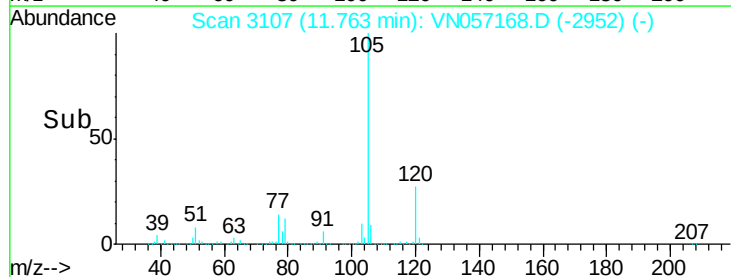
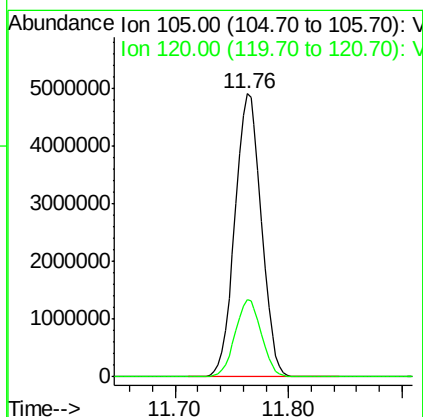
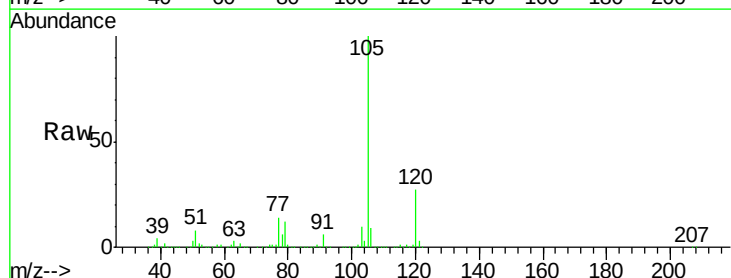
Manual Integrations
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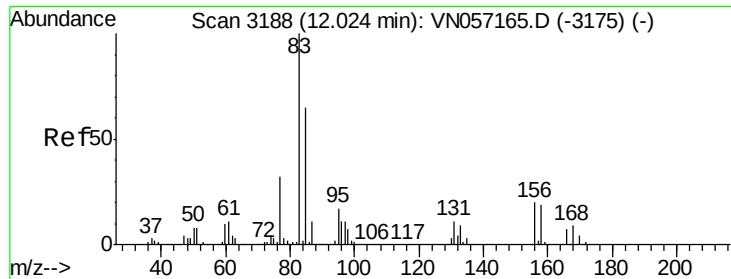
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#70
Isopropylbenzene
Concen: 152.705 ug/l
RT: 11.76 min Scan# 3107
Delta R.T. -0.00 min
Lab File: VN057168.D
Acq: 10 Aug 2019 11:26

Tgt Ion	Ratio	Lower	Upper
105	100		
120	27.0	19.1	35.5





#71

1,1,2,2-Tetrachloroethane

Concen: 148.255 ug/l

RT: 12.02 min Scan# 3188

Delta R.T. -0.00 min

Lab File: VN057168.D

Acq: 10 Aug 2019 11:26

Instrument :

MSVOA_N

ClientSampleId :

VSTDIC150

Tot Ion: 83 Resp: 2122299

Ion Ratio Lower Upper

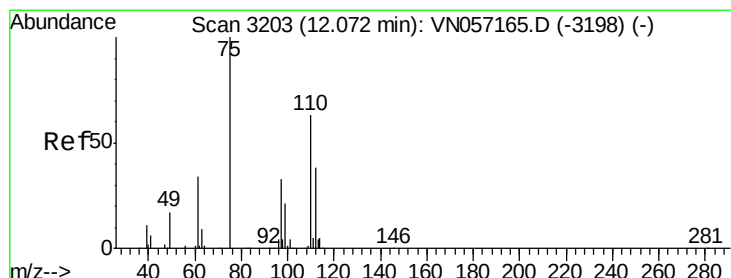
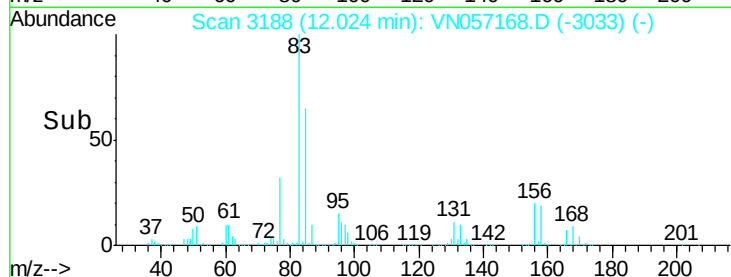
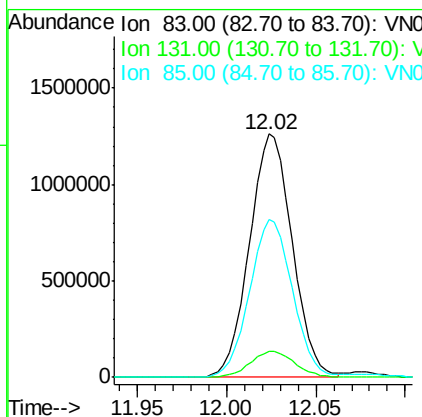
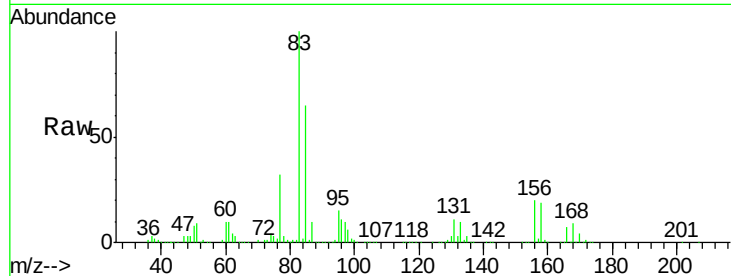
83 100

131 11.1 5.5 16.5

85 65.0 32.6 98.0

Manual Integrations
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#72

1,2,3-Trichloropropane

Concen: 152.115 ug/l m

RT: 12.08 min Scan# 3204

Delta R.T. 0.00 min

Lab File: VN057168.D

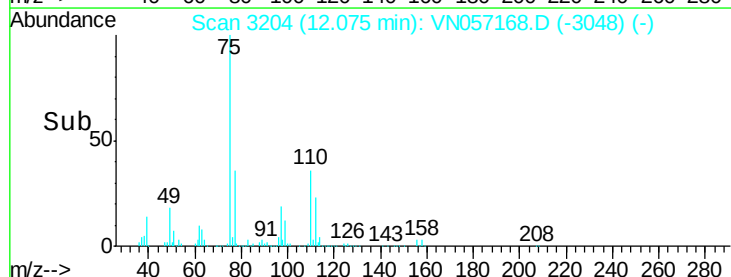
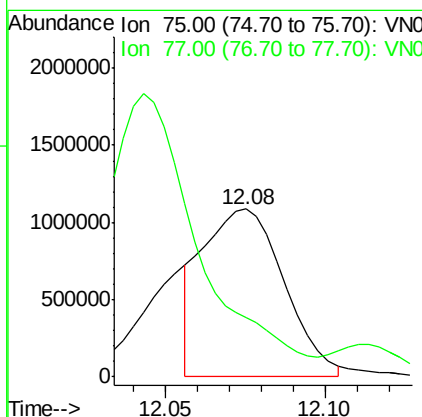
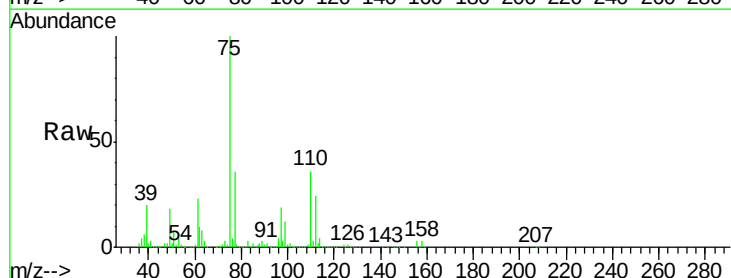
Acq: 10 Aug 2019 11:26

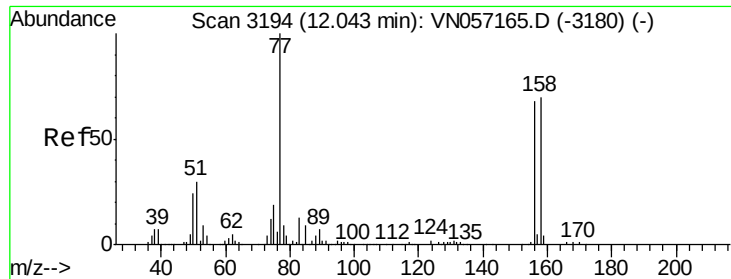
Tgt Ion: 75 Resp: 1930770

Ion Ratio Lower Upper

75 100

77 195.8 0.0 379.4





#73

Bromobenzene

Concen: 159.194 ug/l

RT: 12.04 min Scan# 3194

Delta R.T. -0.00 min

Lab File: VN057168.D

Acq: 10 Aug 2019 11:26

Instrument :

MSVOA_N

ClientSampleId :

VSTDIC150

Tot Ion:156 Resp: 2157581

Ion Ratio Lower Upper

156 100

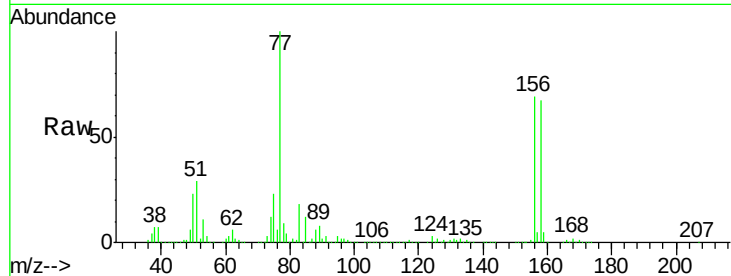
77 175.2 0.0 361.6

158 96.9 0.0 200.6

Manual Integrations
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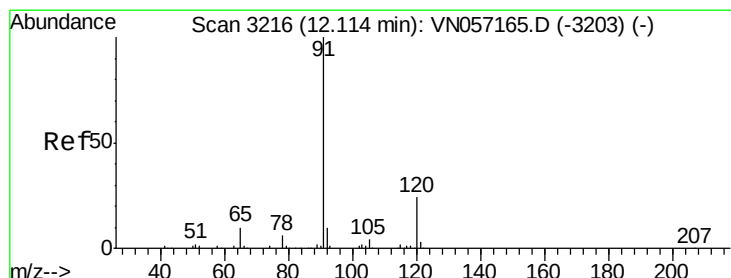
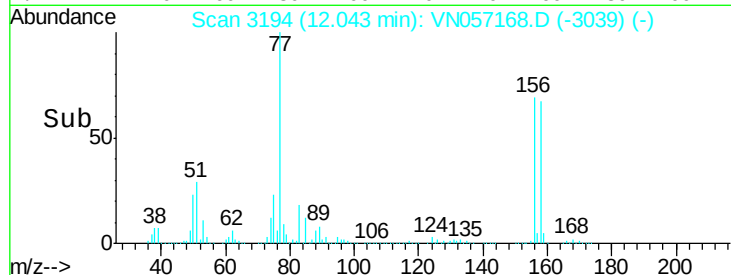
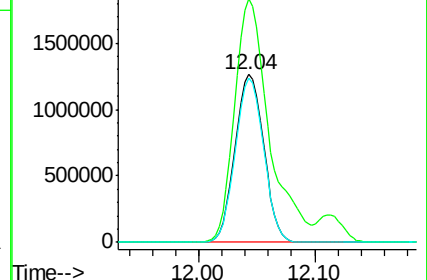
8/12/2019 3:55:37 PM



Abundance Ion 156.00 (155.70 to 156.70): V

Ion 77.00 (76.70 to 77.70): VN

Ion 158.00 (157.70 to 158.70): V



#74

n-propylbenzene

Concen: 164.871 ug/l

RT: 12.11 min Scan# 3216

Delta R.T. -0.00 min

Lab File: VN057168.D

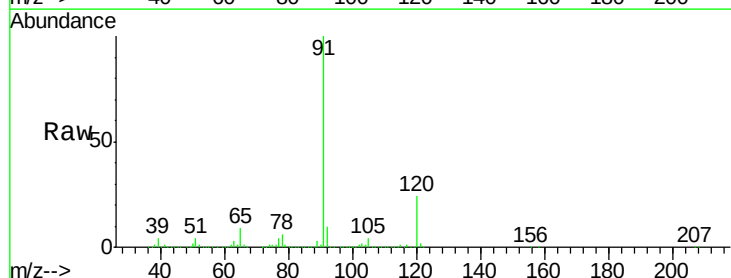
Acq: 10 Aug 2019 11:26

Tgt Ion: 91 Resp: 9046495

Ion Ratio Lower Upper

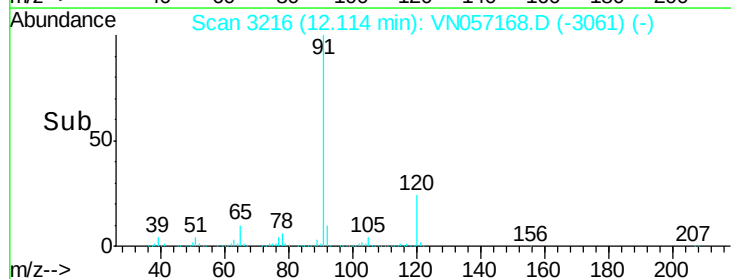
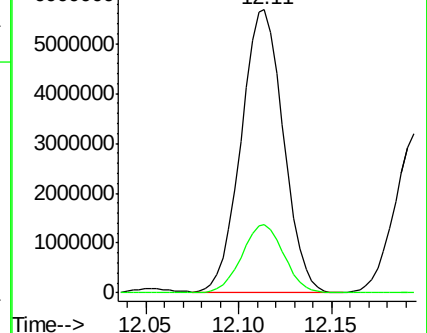
91 100

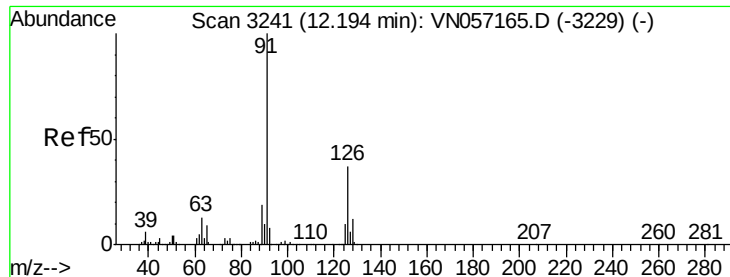
120 24.0 0.0 48.2



Abundance Ion 91.00 (90.70 to 91.70): VN

Ion 120.00 (119.70 to 120.70): V





#75

2-Chlorotoluene

Concen: 156.910 ug/l

RT: 12.20 min Scan# 3242

Delta R.T. 0.00 min

Lab File: VN057168.D

Acq: 10 Aug 2019 11:26

Instrument :

MSVOA_N

ClientSampleId :

VSTDIC150

Tot Ion: 91 Resp: 5325224

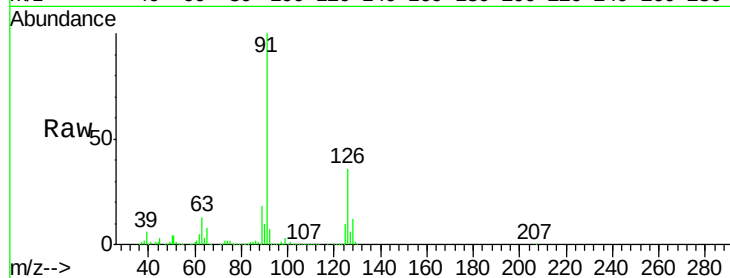
Ion Ratio Lower Upper

91 100

126 36.1 0.0 73.4

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Abundance Ion 91.00 (90.70 to 91.70): VN057168.D (-3241) (-)

Ion 126.00 (125.70 to 126.70): VN057168.D (-3241) (-)

6000000

5000000

4000000

3000000

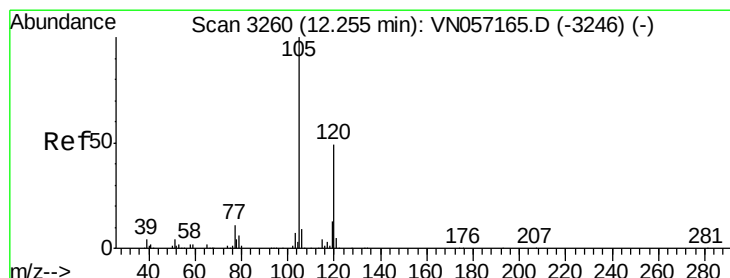
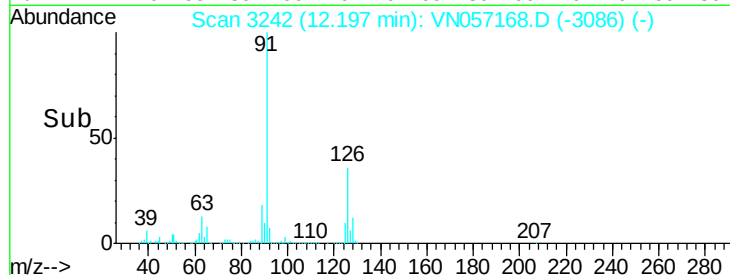
2000000

1000000

0

12.15 12.20 12.25

Time-->



#76

1,3,5-Trimethylbenzene

Concen: 162.297 ug/l

RT: 12.26 min Scan# 3261

Delta R.T. 0.00 min

Lab File: VN057168.D

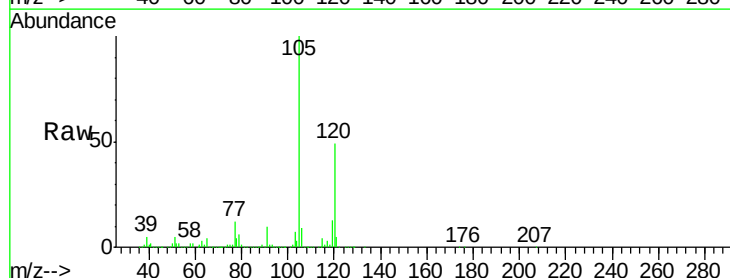
Acq: 10 Aug 2019 11:26

Tgt Ion: 105 Resp: 6857327

Ion Ratio Lower Upper

105 100

120 49.1 0.0 83.6



Abundance Ion 105.00 (104.70 to 105.70): VN057168.D (-3260) (-)

Ion 120.00 (119.70 to 120.70): VN057168.D (-3260) (-)

5000000

4000000

3000000

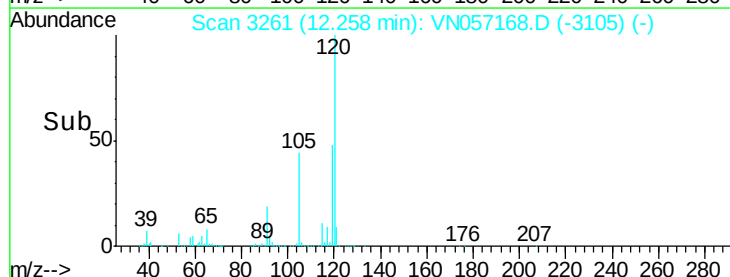
2000000

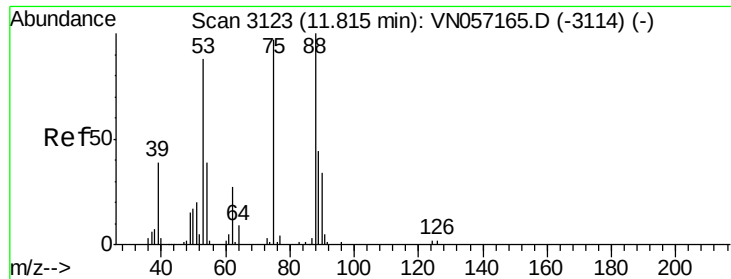
1000000

0

12.20 12.25 12.30

Time-->





#77

t-1,4-Dichloro-2-butene

Concen: 177.739 ug/l

RT: 11.82 min Scan# 3124

Delta R.T. 0.00 min

Lab File: VN057168.D

Acq: 10 Aug 2019 11:26

Instrument :

MSVOA_N

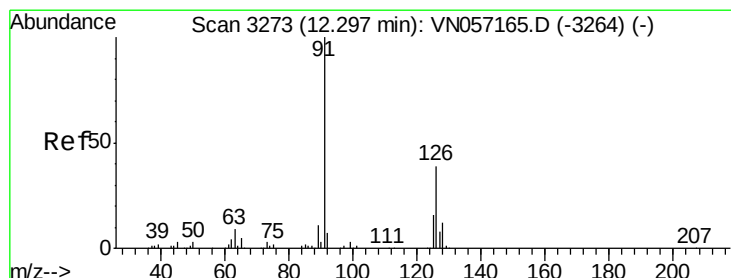
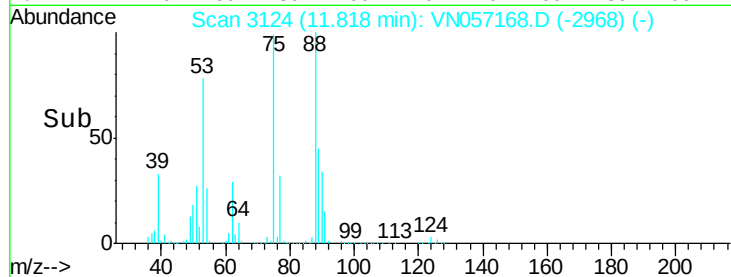
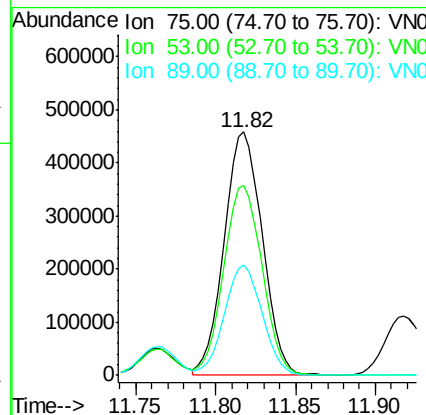
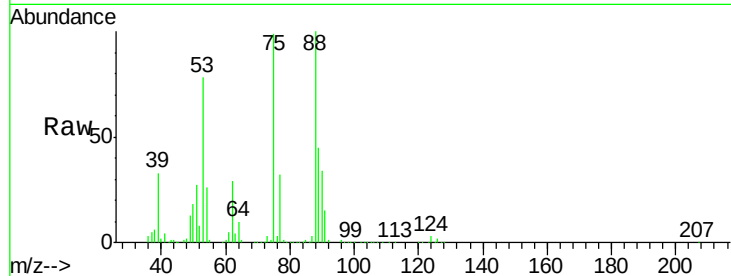
ClientSampleId :

VSTDIC150

Tot Ion:	75	Resp:	749421
Ion Ratio	Lower	Upper	
75	100		
53	78.2	45.4	136.2
89	45.4	23.5	70.6

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#78

4-Chlorotoluene

Concen: 169.594 ug/l

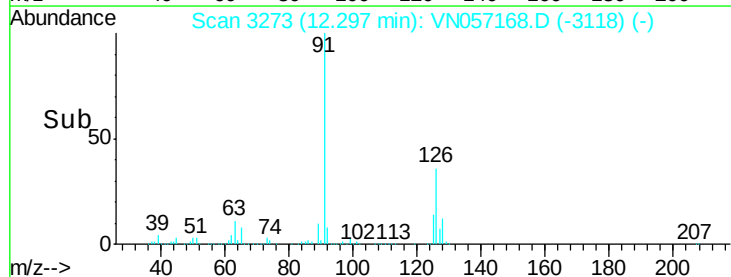
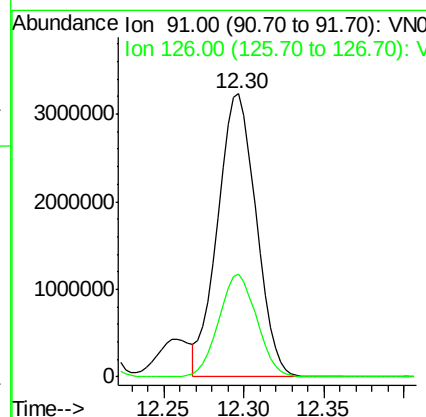
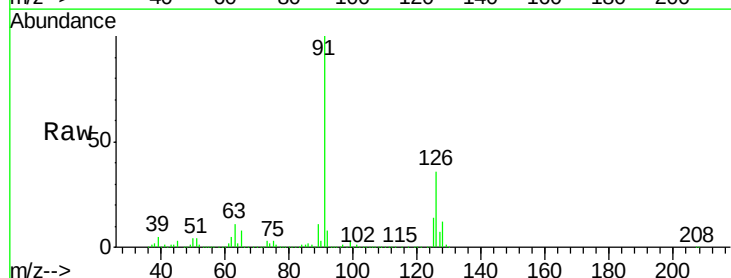
RT: 12.30 min Scan# 3273

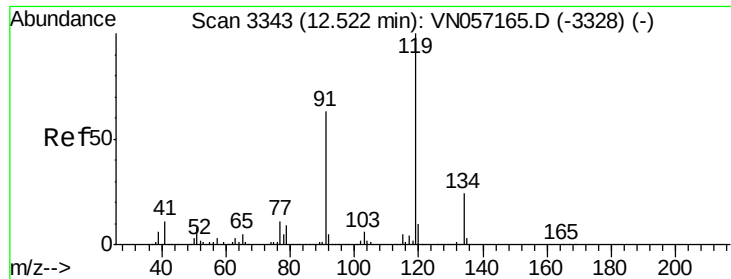
Delta R.T. -0.00 min

Lab File: VN057168.D

Acq: 10 Aug 2019 11:26

Tgt Ion:	91	Resp:	5345576
Ion Ratio	Lower	Upper	
91	100		
126	35.7	0.0	70.2





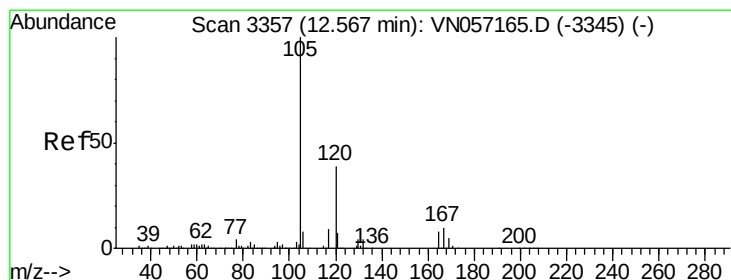
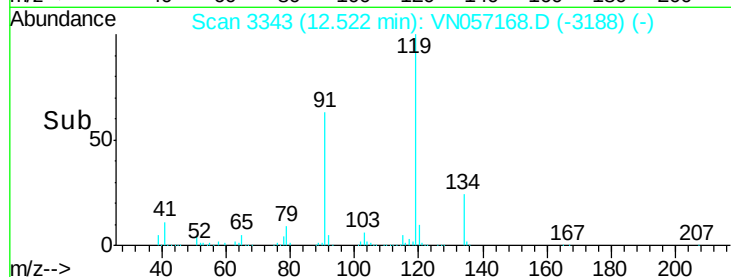
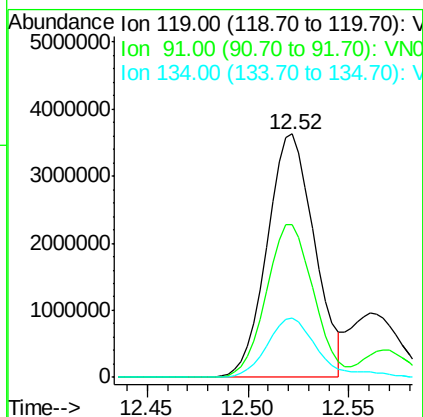
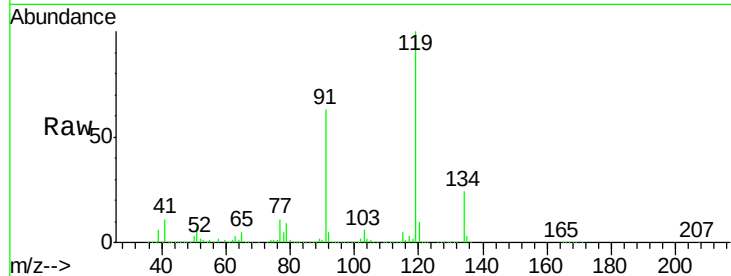
#79
 tert-butylbenzene
 Concen: 152.255 ug/l
 RT: 12.52 min Scan# 3343
 Delta R.T. -0.00 min
 Lab File: VN057168.D
 Acq: 10 Aug 2019 11:26

Instrument :
 MSVOA_N
 ClientSampleId :
 VSTDIC150

Tot Ion	Ratio	Lower	Upper
119	100		
91	63.1	0.0	123.8
134	26.3	0.0	48.6

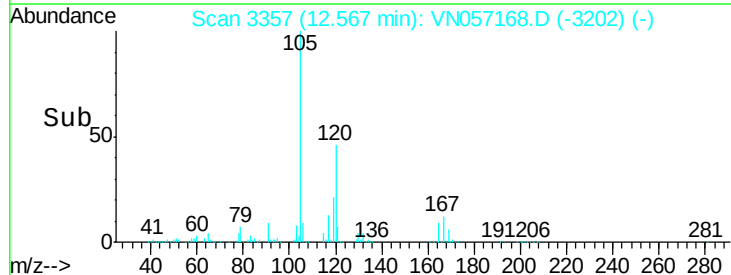
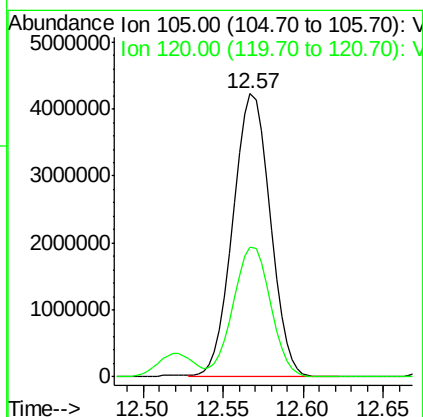
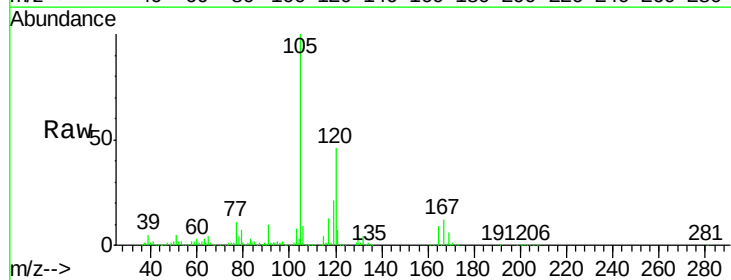
Manual Integrations
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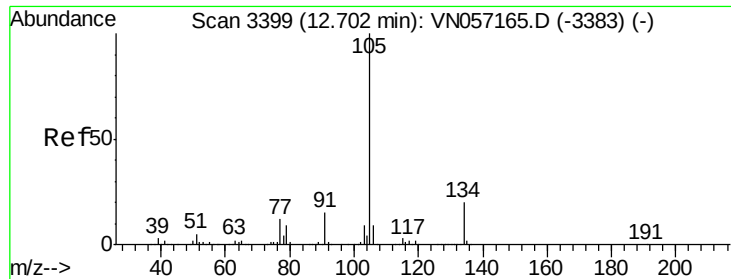
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#80
 1,2,4-Trimethylbenzene
 Concen: 162.149 ug/l
 RT: 12.57 min Scan# 3357
 Delta R.T. -0.00 min
 Lab File: VN057168.D
 Acq: 10 Aug 2019 11:26

Tgt Ion	Ratio	Lower	Upper
105	100		
120	46.1	0.0	91.2





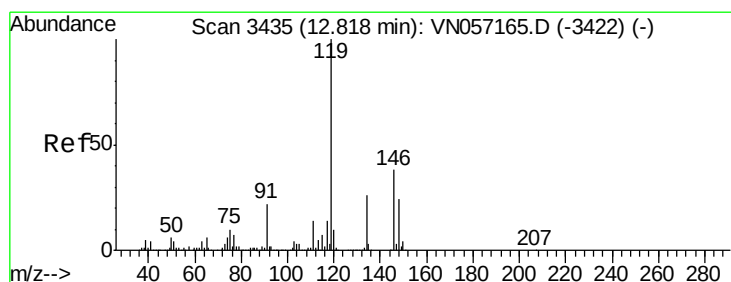
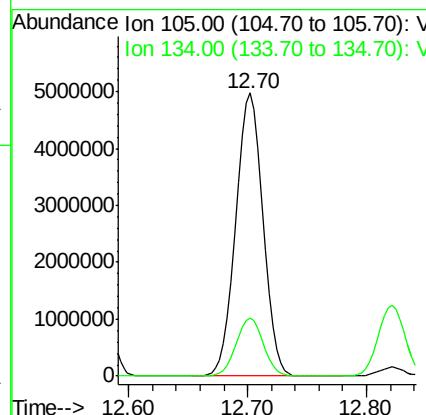
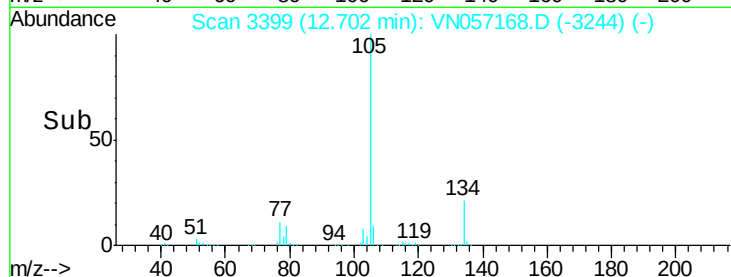
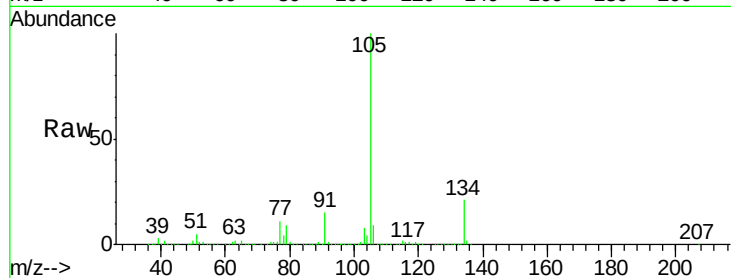
#81
 sec-Butylbenzene
 Concen: 161.004 ug/l
 RT: 12.70 min Scan# 3399
 Delta R.T. -0.00 min
 Lab File: VN057168.D
 Acq: 10 Aug 2019 11:26

Instrument :
 MSVOA_N
 ClientSampleId :
 VSTDIC150

Tot Ion:105 Resp: 7874340
 Ion Ratio Lower Upper
 105 100
 134 20.6 0.0 40.6

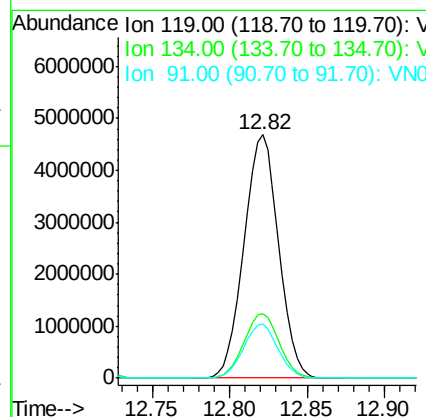
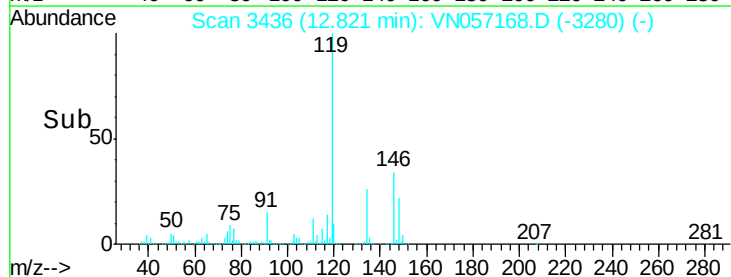
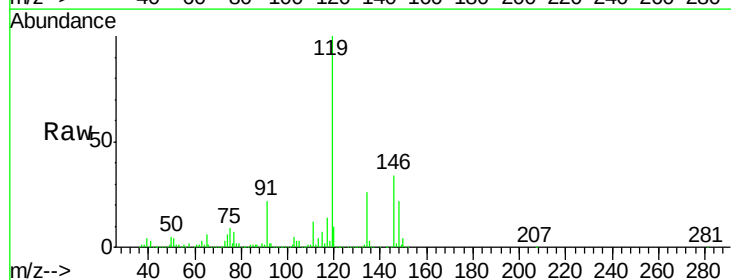
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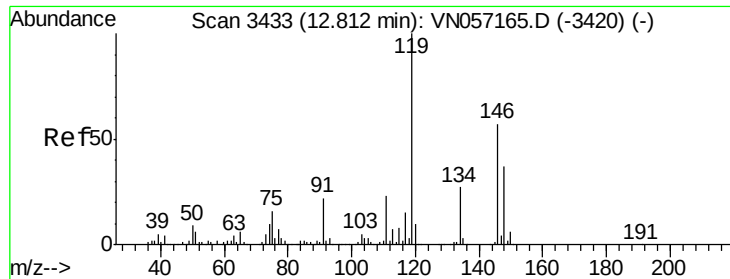
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 8/12/2019 3:55:37 PM



#82
 p-Isopropyltoluene
 Concen: 167.017 ug/l
 RT: 12.82 min Scan# 3436
 Delta R.T. 0.00 min
 Lab File: VN057168.D
 Acq: 10 Aug 2019 11:26

Tgt Ion:119 Resp: 7273514
 Ion Ratio Lower Upper
 119 100
 134 26.8 0.0 54.2
 91 22.1 0.0 44.4





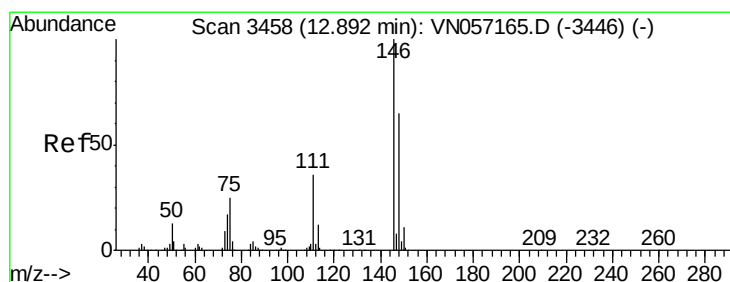
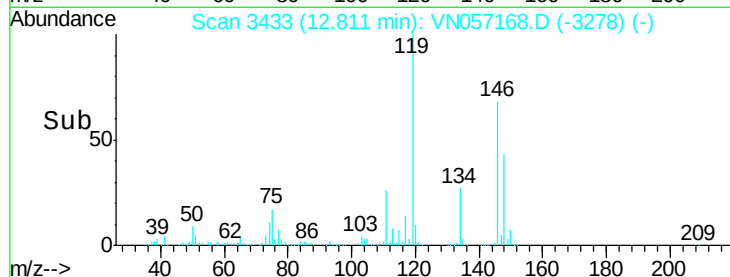
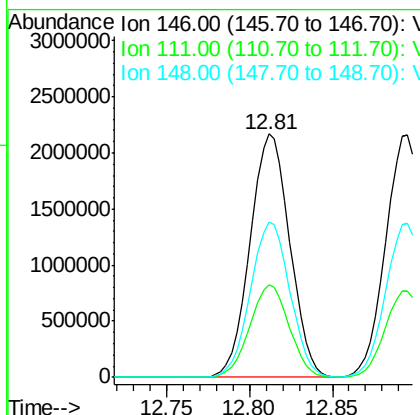
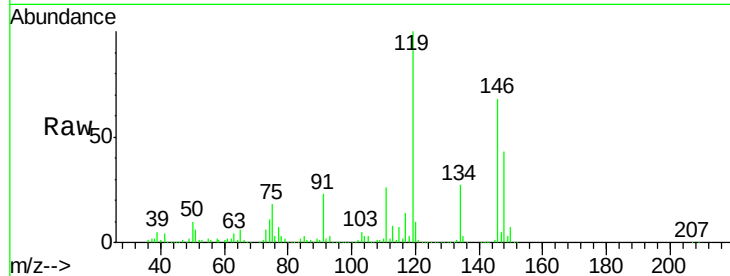
#83
 1,3-Dichlorobenzene
 Concen: 174.506 ug/l
 RT: 12.81 min Scan# 3433
 Delta R.T. -0.00 min
 Lab File: VN057168.D
 Acq: 10 Aug 2019 11:26

Instrument :
 MSVOA_N
 ClientSampleId :
 VSTDIC150

Tot Ion	Ratio	Lower	Upper
146	100		
111	37.7	19.1	57.1
148	63.6	32.6	97.8

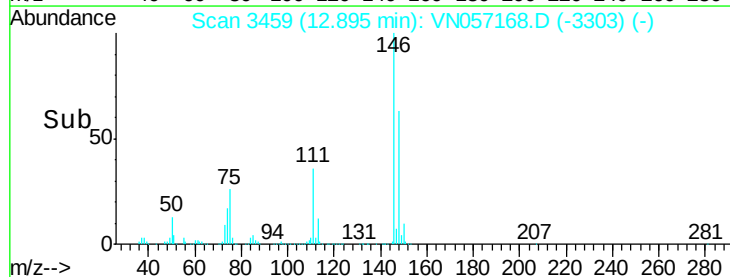
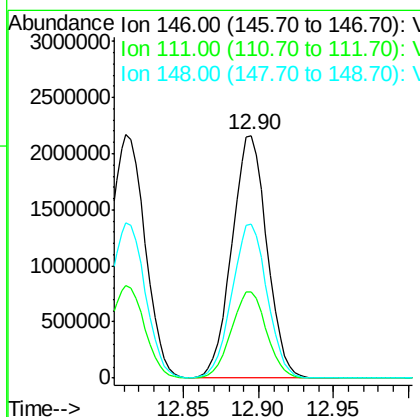
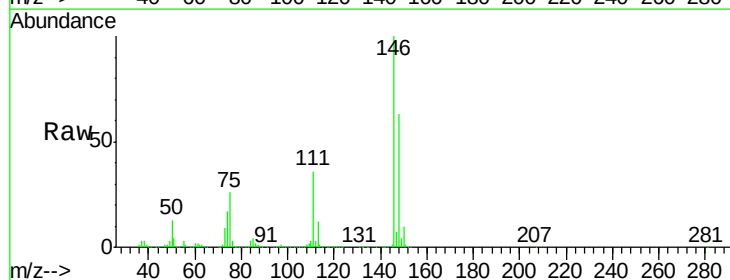
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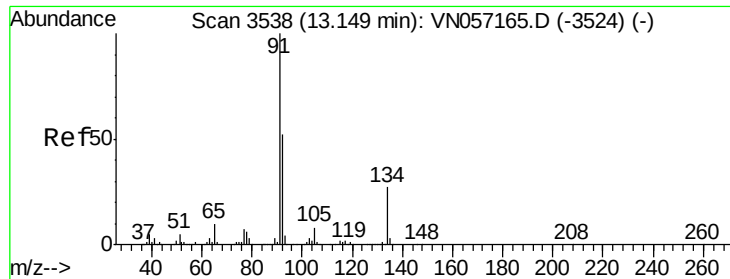
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#84
 1,4-Dichlorobenzene
 Concen: 183.635 ug/l
 RT: 12.90 min Scan# 3459
 Delta R.T. 0.00 min
 Lab File: VN057168.D
 Acq: 10 Aug 2019 11:26

Tgt Ion	Ratio	Lower	Upper
146	100		
111	35.9	18.0	54.0
148	63.9	32.3	96.9





#85

n-Butylbenzene

Concen: 185.944 ug/l

RT: 13.15 min Scan# 3538

Delta R.T. -0.00 min

Lab File: VN057168.D

Acq: 10 Aug 2019 11:26

Instrument :

MSVOA_N

ClientSampleId :

VSTDIC150

Tot Ion: 91 Resp: 5855062

Ion Ratio Lower Upper

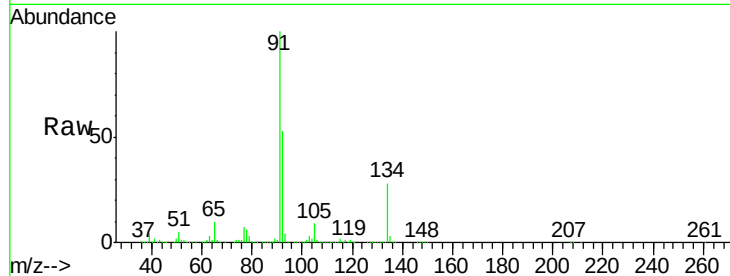
91 100

92 52.9 0.0 104.4

134 28.3 0.0 55.0

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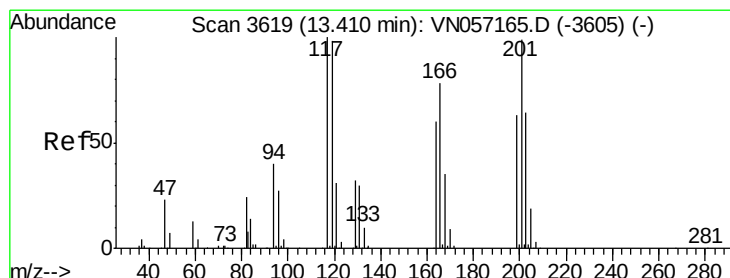
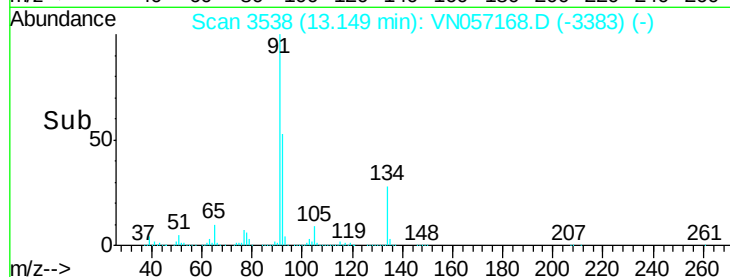
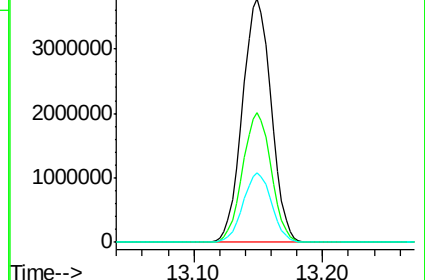
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Abundance Ion 91.00 (90.70 to 91.70): VN057168.D (-3538) (-)

Ion 92.00 (91.70 to 92.70): VN057168.D (-3538) (-)

Ion 134.00 (133.70 to 134.70): VN057168.D (-3538) (-)



#86

Hexachloroethane

Concen: 162.949 ug/l

RT: 13.41 min Scan# 3619

Delta R.T. -0.00 min

Lab File: VN057168.D

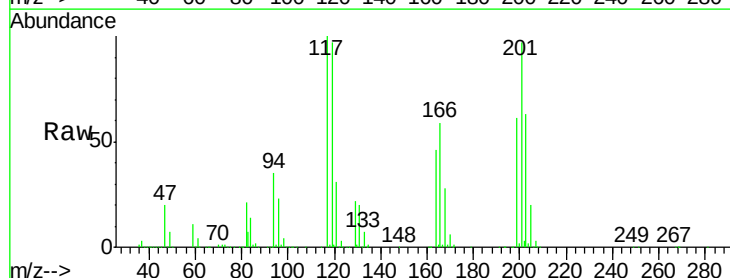
Acq: 10 Aug 2019 11:26

Tgt Ion: 117 Resp: 1290344

Ion Ratio Lower Upper

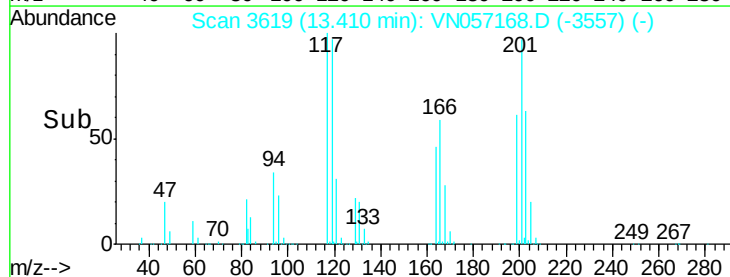
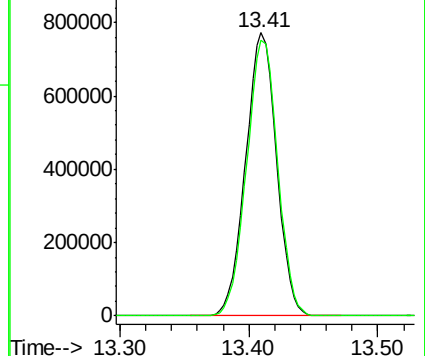
117 100

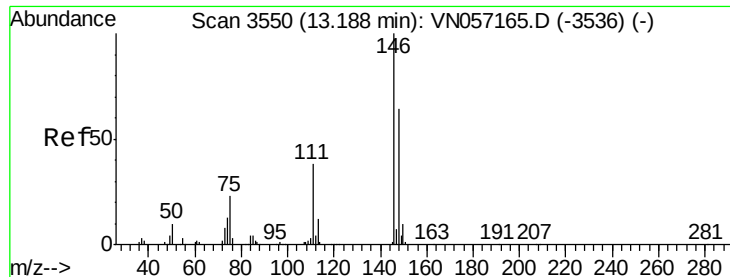
201 97.9 49.3 147.9



Abundance Ion 117.00 (116.70 to 117.70): VN057168.D (-3619) (-)

Ion 201.00 (200.70 to 201.70): VN057168.D (-3619) (-)





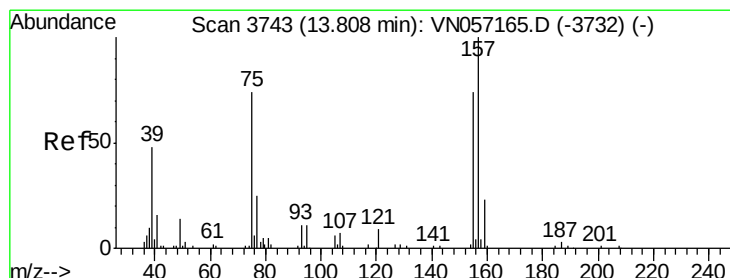
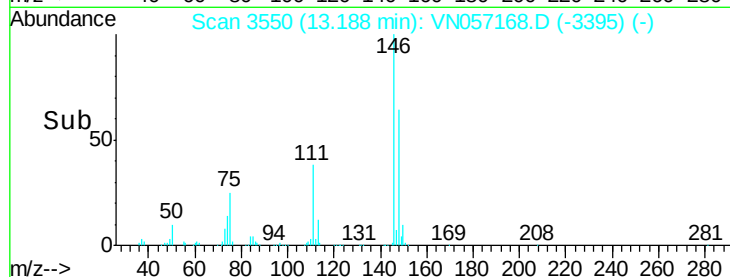
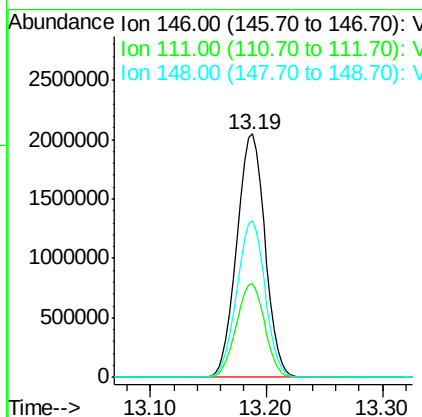
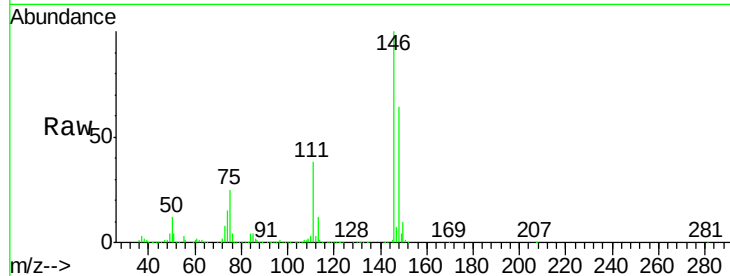
#87
 1,2-Dichlorobenzene
 Concen: 168.296 ug/l
 RT: 13.19 min Scan# 3550
 Delta R.T. -0.00 min
 Lab File: VN057168.D
 Acq: 10 Aug 2019 11:26

Instrument :
 MSVOA_N
 ClientSampleId :
 VSTDIC150

Tot Ion	Ratio	Lower	Upper
146	100		
111	38.8	18.9	56.5
148	64.2	32.4	97.0

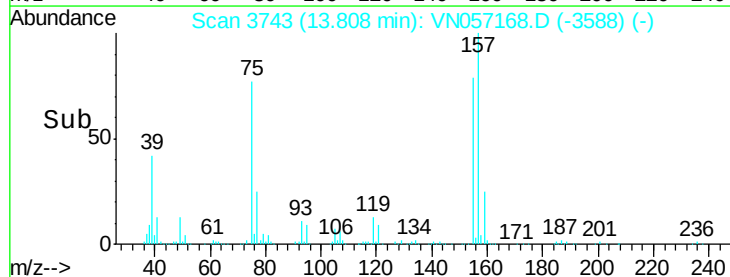
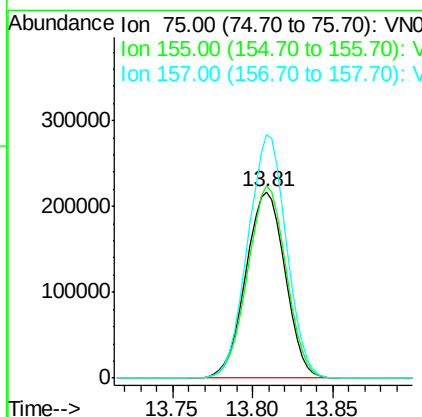
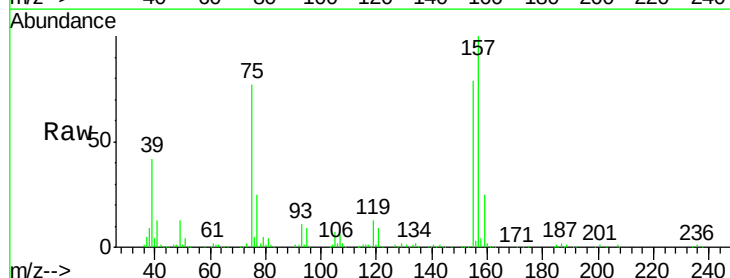
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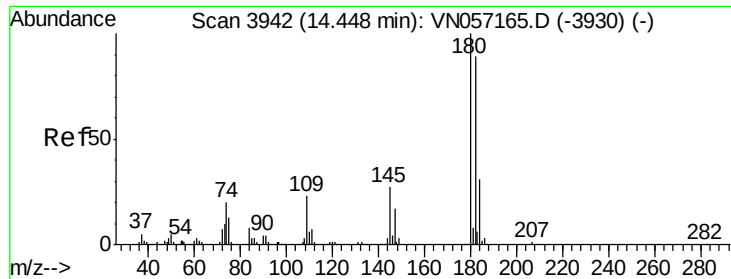
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#88
 1,2-Dibromo-3-Chloropropane
 Concen: 182.091 ug/l
 RT: 13.81 min Scan# 3743
 Delta R.T. -0.00 min
 Lab File: VN057168.D
 Acq: 10 Aug 2019 11:26

Tgt Ion	Ratio	Lower	Upper
75	100		
155	101.2	80.9	121.3
157	128.1	111.3	166.9





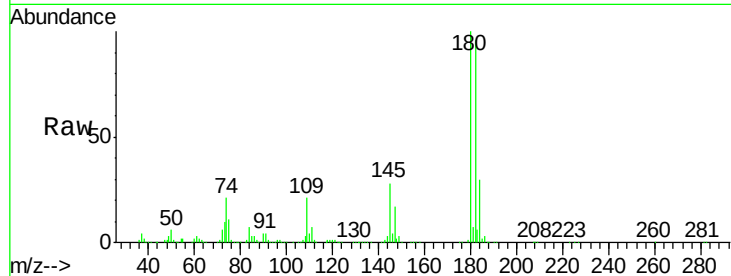
#89
 1,2,4-Trichlorobenzene
 Concen: 215.435 ug/l
 RT: 14.45 min Scan# 3943
 Delta R.T. 0.00 min
 Lab File: VN057168.D
 Acq: 10 Aug 2019 11:26

Instrument :
 MSVOA_N
 ClientSampled :
 VSTDIC150

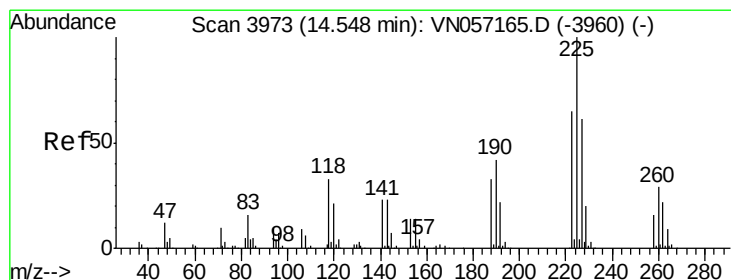
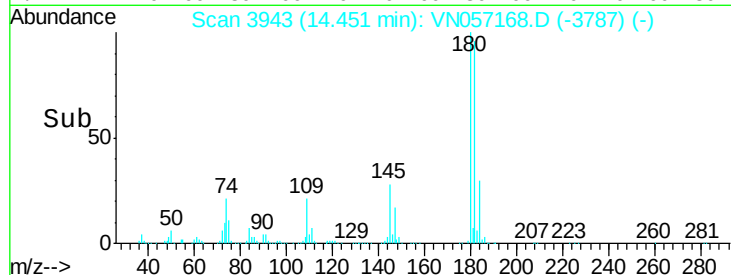
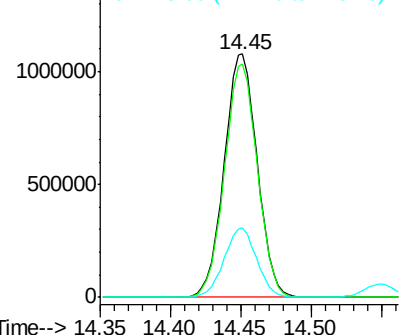
Tot Ion	Ratio	Lower	Upper
180	100		
182	95.3	75.0	112.6
145	28.0	21.7	32.5

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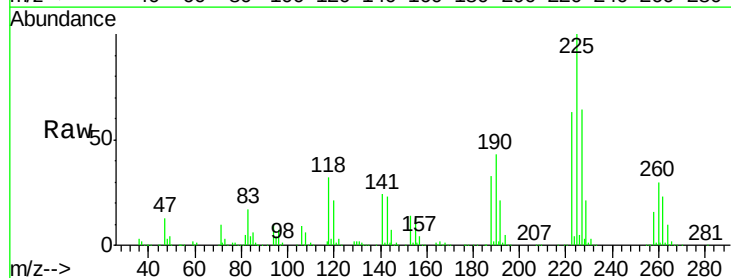


Abundance Ion 180.00 (179.70 to 180.70): V
 Ion 182.00 (181.70 to 182.70): V
 Ion 145.00 (144.70 to 145.70): V

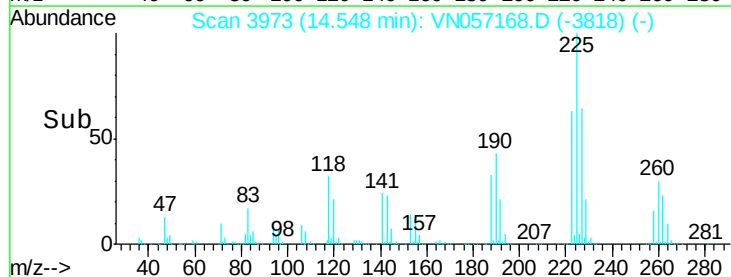
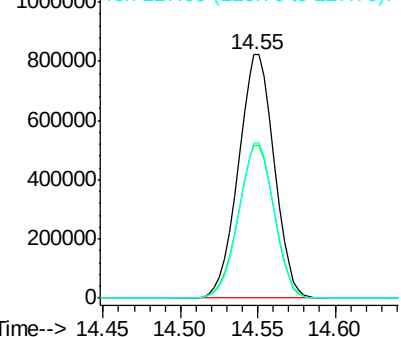


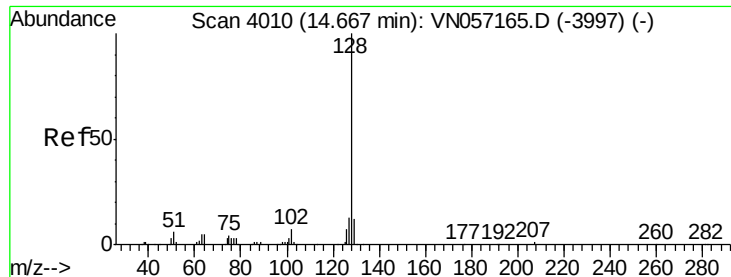
#90
 Hexachlorobutadiene
 Concen: 150.258 ug/l
 RT: 14.55 min Scan# 3973
 Delta R.T. -0.00 min
 Lab File: VN057168.D
 Acq: 10 Aug 2019 11:26

Tgt Ion	Ratio	Lower	Upper
225	100		
223	63.0	0.0	128.0
227	63.2	0.0	125.6



Abundance Ion 225.00 (224.70 to 225.70): V
 Ion 223.00 (222.70 to 223.70): V
 Ion 227.00 (226.70 to 227.70): V





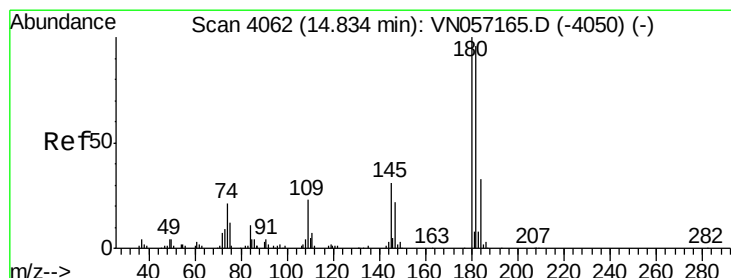
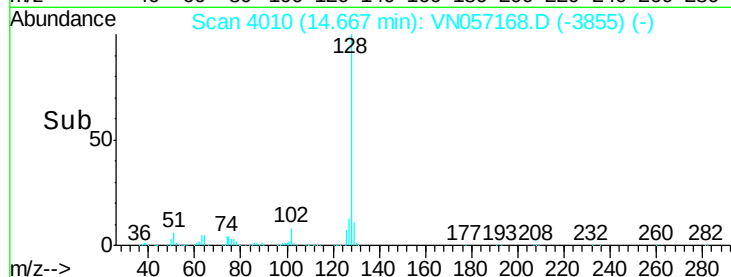
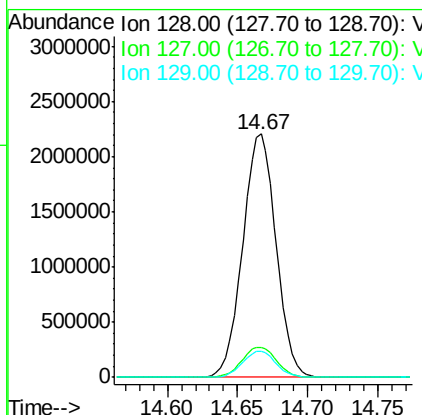
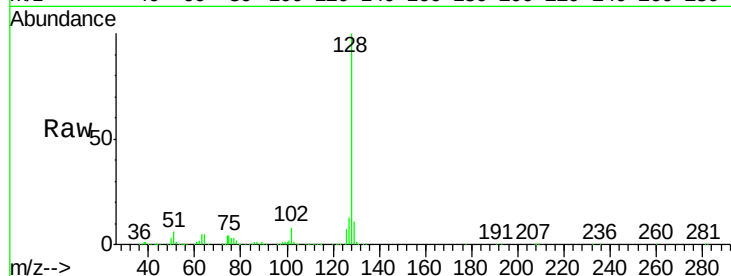
#91
Naphthalene
Concen: 235.050 ug/l
RT: 14.67 min Scan# 4010
Delta R.T. -0.00 min
Lab File: VN057168.D
Acq: 10 Aug 2019 11:26

Instrument :
MSVOA_N
ClientSampled :
VSTDIC150

Tot Ion	Ratio	Lower	Upper
128	100		
127	12.8	10.2	15.4
129	10.8	8.6	13.0

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#92
1,2,3-Trichlorobenzene
Concen: 209.780 ug/l
RT: 14.83 min Scan# 4062
Delta R.T. -0.00 min
Lab File: VN057168.D
Acq: 10 Aug 2019 11:26

Tgt Ion	Ratio	Lower	Upper
180	100		
182	94.5	0.0	195.8
145	29.6	0.0	61.2

