

Data Path : Z:\VOASRV\HPCHEM1\MSVOA N\DATA\VN080919\
 Data File : VN057141.D
 Acq On : 9 Aug 2019 13:00
 Operator : JC/SP
 Sample : VN0809WBS01
 Misc : 5.00mL/MSVOA N/WATER
 ALS Vial : 8 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 VN0809WBS01

Manual Integrations
 APPROVED

MMDadoda
 8/12/2019 3:34:40 PM

Quant Time: Aug 10 07:30:45 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_N\METHODS\82N080719W.M
 Quant Title : SW846 8260
 QLast Update : Thu Aug 08 06:49:25 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	7.05	168	1142893	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	8.01	114	1696346	50.00	ug/l	0.00
63) Chlorobenzene-d5	10.91	117	1485427	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.87	152	530257	50.00	ug/l	0.00

System Monitoring Compounds

33) 1,2-Dichloroethane-d4	7.44	65	573092	48.76	ug/l	0.00
Spiked Amount	50.000		Recovery	=	97.52%	
35) Dibromofluoromethane	6.99	113	515547	48.43	ug/l	0.00
Spiked Amount	50.000		Recovery	=	96.86%	
50) Toluene-d8	9.56	98	1966739	48.29	ug/l	0.00
Spiked Amount	50.000		Recovery	=	96.58%	
62) 4-Bromofluorobenzene	11.92	95	613879	46.78	ug/l	0.00
Spiked Amount	50.000		Recovery	=	93.56%	

Target Compounds

						Qvalue
2) Dichlorodifluoromethane	1.82	85	161049	17.532	ug/l	99
3) Chloromethane	2.00	50	211669	17.343	ug/l	95
4) Vinyl Chloride	2.11	62	208373	18.367	ug/l	100
5) Bromomethane	2.43	94	149762	19.429	ug/l	99
6) Chloroethane	2.55	64	136230	18.721	ug/l	95
7) Trichlorofluoromethane	2.82	101	312874	19.187	ug/l	98
8) Diethyl Ether	3.14	74	119698	18.999	ug/l	97
9) 1,1,2-Trichlorotrifluoroet	3.44	101	191659	19.388	ug/l	100
10) Methyl Iodide	3.63	142	276841	18.532	ug/l	100
11) Tert butyl alcohol	4.23	59	154664	92.468	ug/l	99
12) 1,1-Dichloroethene	3.43	96	190519	19.591	ug/l	99
13) Acrolein	3.31	56	89080	84.186	ug/l	99
14) Allyl chloride	3.91	41	292395	20.689	ug/l	95
15) Acrylonitrile	4.45	53	454612	100.426	ug/l	99
16) Acetone	3.47	43	364698	102.742	ug/l	96
17) Carbon Disulfide	3.72	76	472370	18.258	ug/l	100
18) Methyl Acetate	3.89	43	228711	21.248	ug/l	99
19) Methyl tert-butyl Ether	4.49	73	580632	19.777	ug/l	99
20) Methylene Chloride	4.10	84	220974	18.863	ug/l	97
21) trans-1,2-Dichloroethene	4.51	96	199092	18.793	ug/l	99
22) Diisopropyl ether	5.31	45	604600	19.613	ug/l	93
23) Vinyl Acetate	5.26	43	2366175	100.236	ug/l	100
24) 1,1-Dichloroethane	5.25	63	364479	19.233	ug/l	98
25) 2-Butanone	6.20	43	556230	102.562	ug/l	98
26) 2,2-Dichloropropane	6.21	77	285474	20.706	ug/l	99
27) cis-1,2-Dichloroethene	6.21	96	234295	19.305	ug/l	100
28) Bromochloromethane	6.58	49	175366	20.119	ug/l	100
29) Tetrahydrofuran	6.60	42	370586	101.436	ug/l	99
30) Chloroform	6.76	83	374106	19.074	ug/l	98
31) Cyclohexane	7.07	56	315536	18.508	ug/l	96
32) 1,1,1-Trichloroethane	6.98	97	319479	19.417	ug/l	98
36) 1,1-Dichloropropene	7.20	75	275303	19.711	ug/l	99
37) Ethyl Acetate	6.28	43	236794	20.559	ug/l #	100
38) Carbon Tetrachloride	7.19	117	284722	19.561	ug/l	98

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 Quant Title : SW846 8260
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Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
39) Methylcyclohexane	8.53	83	329902	19.423	ug/l	96
40) Benzene	7.46	78	850384	19.233	ug/l	100
41) Methacrylonitrile	6.55	41	116410	19.905	ug/l	97
42) 1,2-Dichloroethane	7.54	62	271860	19.279	ug/l	100
43) Isopropyl Acetate	7.56	43	395283	20.118	ug/l	98
44) Trichloroethene	8.27	130	242396	19.568	ug/l	98
45) 1,2-Dichloropropane	8.56	63	221290	19.329	ug/l	99
46) Dibromomethane	8.65	93	147401	20.080	ug/l	99
47) Bromodichloromethane	8.85	83	283841	19.984	ug/l	97
48) Methyl methacrylate	8.64	41	177376	19.145	ug/l	99
49) 1,4-Dioxane	8.64	88	77958	413.139	ug/l	99
51) 4-Methyl-2-Pentanone	9.44	43	1147211	100.324	ug/l	100
52) Toluene	9.63	92	546214	19.902	ug/l	97
53) t-1,3-Dichloropropene	9.86	75	298005	20.083	ug/l	100
54) cis-1,3-Dichloropropene	9.30	75	337538	19.824	ug/l	99
55) 1,1,2-Trichloroethane	10.04	97	214021	19.830	ug/l	100
56) Ethyl methacrylate	9.90	69	293660	19.433	ug/l	99
57) 1,3-Dichloropropane	10.19	76	347438	19.521	ug/l	100
58) 2-Chloroethyl Vinyl ether	9.15	63	466674	86.501	ug/l	100
59) 2-Hexanone	10.24	43	794010	102.597	ug/l	99
60) Dibromochloromethane	10.39	129	224798	19.832	ug/l	99
61) 1,2-Dibromoethane	10.50	107	218059	19.580	ug/l	99
64) Tetrachloroethene	10.11	164	245589	19.880	ug/l	97
65) Chlorobenzene	10.93	112	580826	19.434	ug/l	99
66) 1,1,1,2-Tetrachloroethane	11.01	131	222814	19.941	ug/l	99
67) Ethyl Benzene	11.01	91	1005715	19.551	ug/l	100
68) m/p-Xylenes	11.13	106	746750	39.405	ug/l	100
69) o-Xylene	11.46	106	368767	19.552	ug/l	98
70) Styrene	11.47	104	578893	19.651	ug/l	99
71) Bromoform	11.64	173	162694	19.877	ug/l #	98
73) Isopropylbenzene	11.76	105	990103	21.417	ug/l	100
74) N-amyl acetate	11.58	43	266811	19.856	ug/l	99
75) 1,1,2,2-Tetrachloroethane	12.02	83	281182	21.950	ug/l	100
76) 1,2,3-Trichloropropane	12.08	75	246417m	22.158	ug/l	
77) Bromobenzene	12.04	156	251356	19.722	ug/l	100
78) n-propylbenzene	12.11	91	994527	19.550	ug/l	100
79) 2-Chlorotoluene	12.19	91	626614	20.980	ug/l	100
80) 1,3,5-Trimethylbenzene	12.26	105	805260	19.671	ug/l	98
81) trans-1,4-Dichloro-2-buten	11.82	75	74378	20.624	ug/l	97
82) 4-Chlorotoluene	12.30	91	569213	19.325	ug/l	100
83) tert-Butylbenzene	12.52	119	731736	21.483	ug/l	99
84) 1,2,4-Trimethylbenzene	12.57	105	756074	19.108	ug/l	99
85) sec-Butylbenzene	12.70	105	885117	19.159	ug/l	99
86) p-Isopropyltoluene	12.82	119	763835	18.842	ug/l	99
87) 1,3-Dichlorobenzene	12.81	146	354895	19.559	ug/l	98
88) 1,4-Dichlorobenzene	12.89	146	322359	18.750	ug/l	98
89) n-Butylbenzene	13.15	91	533030	19.032	ug/l	99
90) Hexachloroethane	13.41	117	140364	21.229	ug/l	100
91) 1,2-Dichlorobenzene	13.19	146	347075	19.155	ug/l	99
92) 1,2-Dibromo-3-Chloropropan	13.81	75	33754	18.108	ug/l	94

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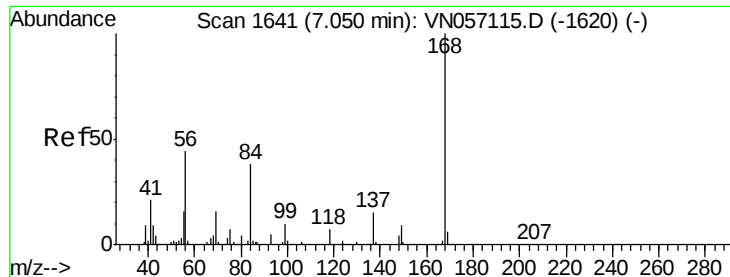
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Quant Title : SW846 8260
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Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
93) 1,2,4-Trichlorobenzene	14.45	180	93262	16.627	ug/l	99
94) Hexachlorobutadiene	14.55	225	147745	21.194	ug/l	97
95) Naphthalene	14.67	128	191170	16.098	ug/l	99
96) 1,2,3-Trichlorobenzene	14.83	180	100648	16.935	ug/l	99

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



#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 7.05 min Scan# 1642

Delta R.T. 0.00 min

Lab File: VN057141.D

Acq: 9 Aug 2019 13:00

Instrument :

MSVOA_N

ClientSampleId :

VN0809WBS01

Tot Ion:168 Resp: 1142893

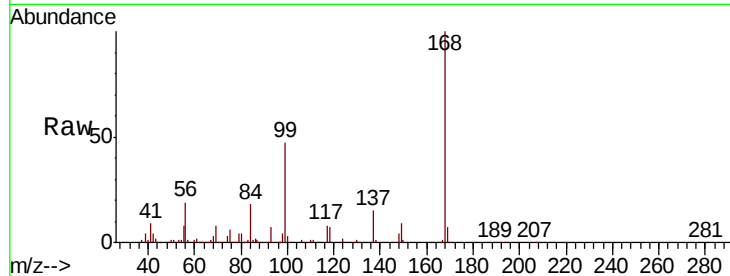
Ion Ratio Lower Upper

168 100

99 46.6 38.6 57.8

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Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VN

7.05

400000

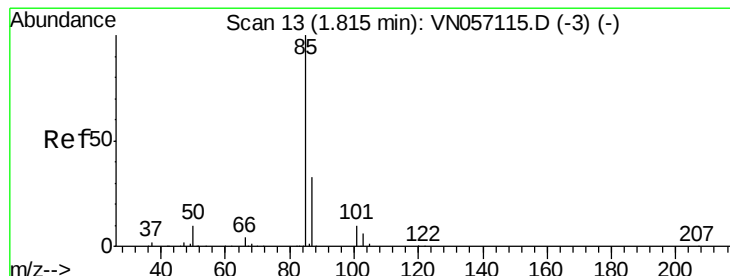
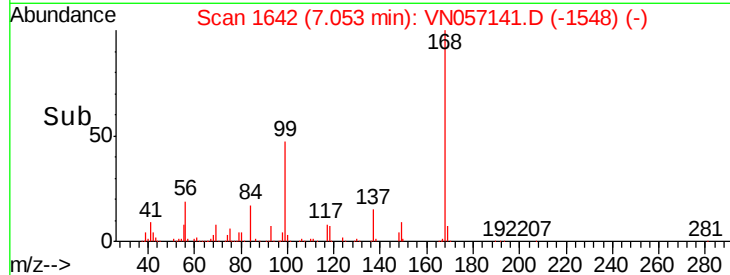
300000

200000

100000

0

Time-->



#2

Dichlorodifluoromethane

Concen: 17.532 ug/l

RT: 1.82 min Scan# 14

Delta R.T. 0.00 min

Lab File: VN057141.D

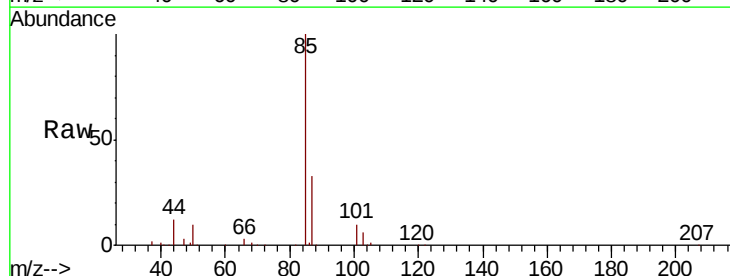
Acq: 9 Aug 2019 13:00

Tgt Ion: 85 Resp: 161049

Ion Ratio Lower Upper

85 100

87 32.6 16.7 50.0



Abundance Ion 84.90 (84.60 to 85.60): VN

Ion 86.90 (86.60 to 87.60): VN

1.82

120000

100000

80000

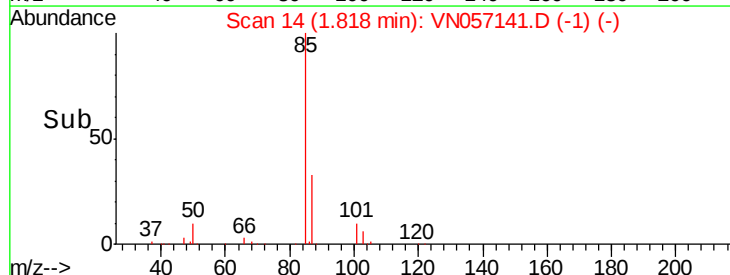
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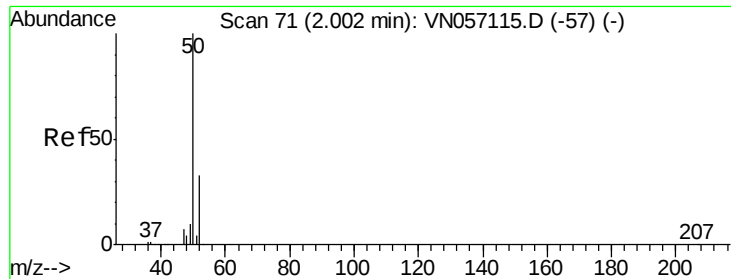
40000

20000

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Time-->





#3

Chloromethane

Concen: 17.343 ug/l

RT: 2.00 min Scan# 71

Delta R.T. -0.00 min

Lab File: VN057141.D

Acq: 9 Aug 2019 13:00

Instrument :

MSVOA_N

ClientSampleId :

VN0809WBS01

Tot Ion: 50 Resp: 211669

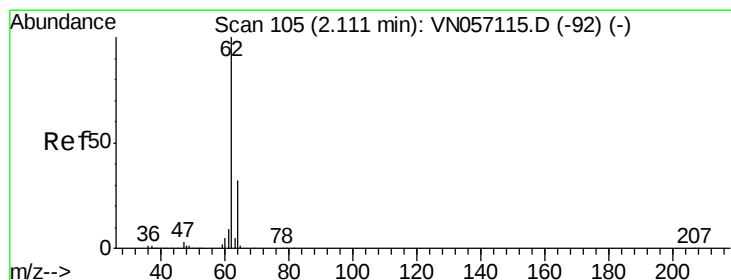
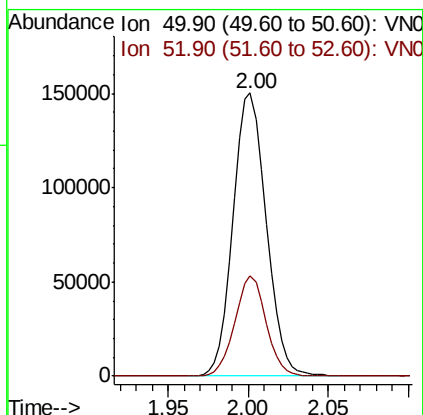
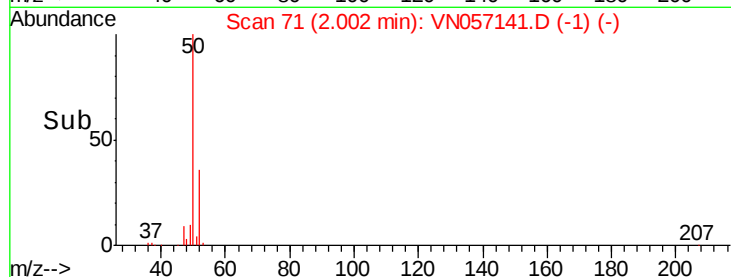
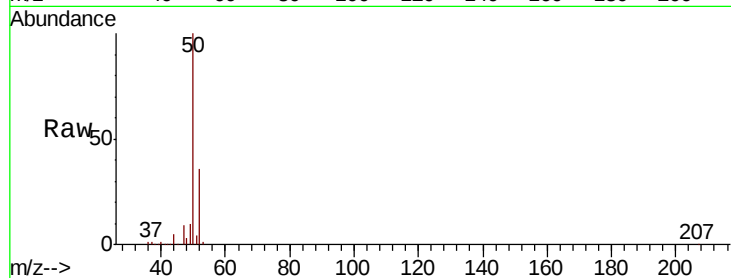
Ion Ratio Lower Upper

50 100

52 35.6 26.1 39.1

Manual Integrations
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#4

Vinyl Chloride

Concen: 18.367 ug/l

RT: 2.11 min Scan# 105

Delta R.T. -0.00 min

Lab File: VN057141.D

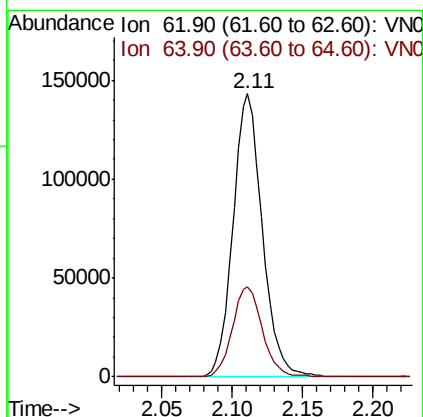
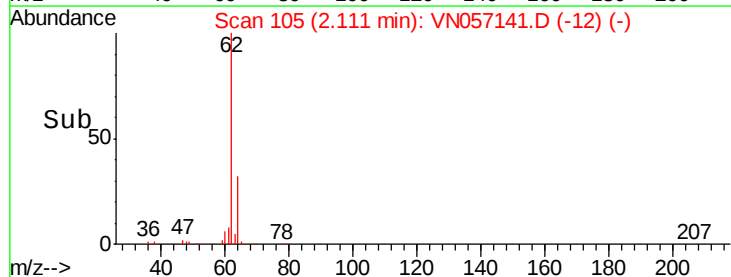
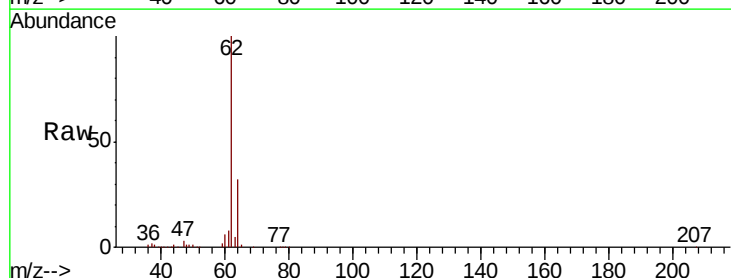
Acq: 9 Aug 2019 13:00

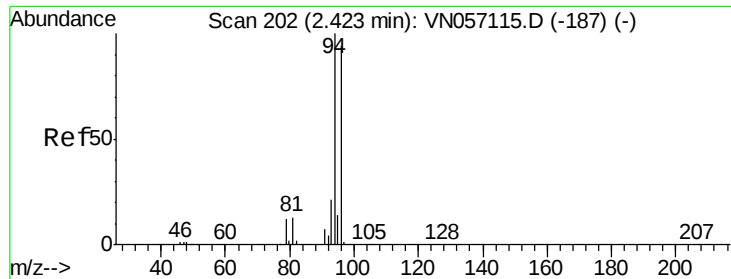
Tgt Ion: 62 Resp: 208373

Ion Ratio Lower Upper

62 100

64 31.9 25.4 38.0





#5

Bromomethane

Concen: 19.429 ug/l

RT: 2.43 min Scan# 204

Delta R.T. 0.01 min

Lab File: VN057141.D

Acq: 9 Aug 2019 13:00

Instrument :

MSVOA_N

ClientSampleId :

VN0809WBS01

Tot Ion: 94 Resp: 149762

Ion Ratio Lower Upper

94 100

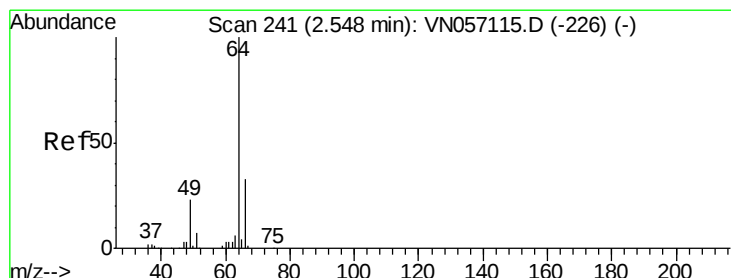
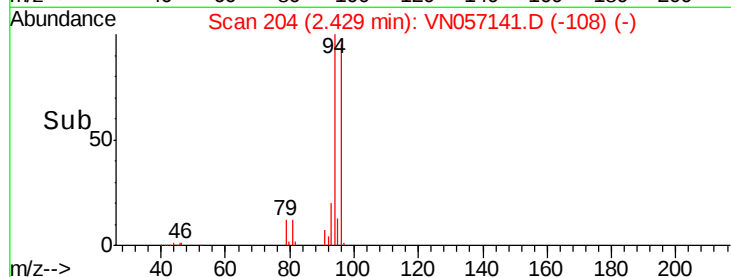
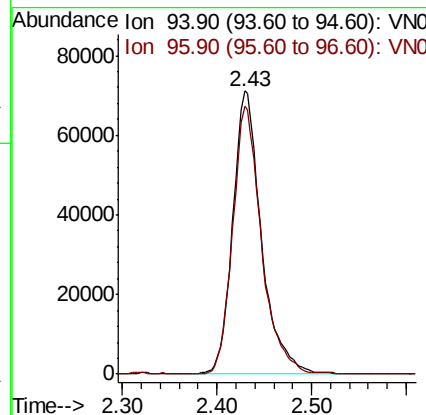
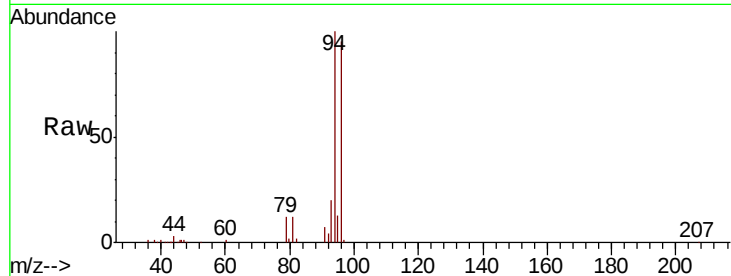
96 94.7 75.0 112.4

Manual Integrations

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#6

Chloroethane

Concen: 18.721 ug/l

RT: 2.55 min Scan# 242

Delta R.T. 0.00 min

Lab File: VN057141.D

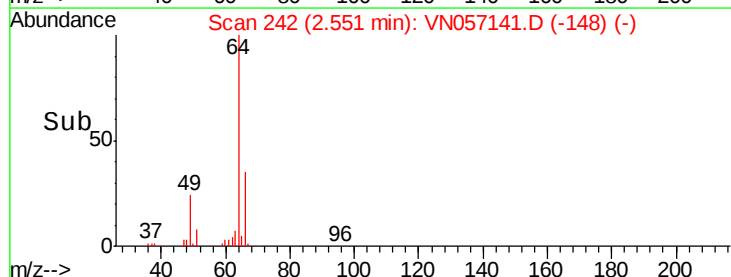
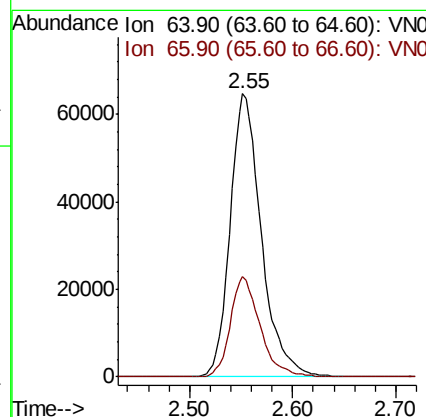
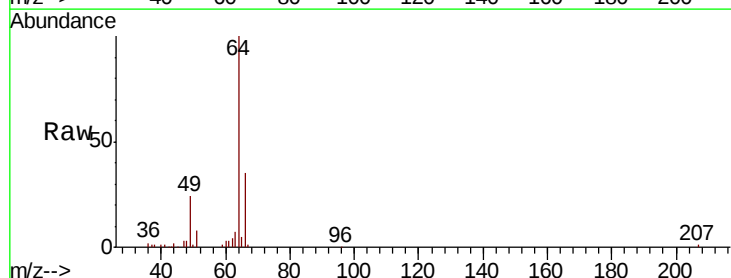
Acq: 9 Aug 2019 13:00

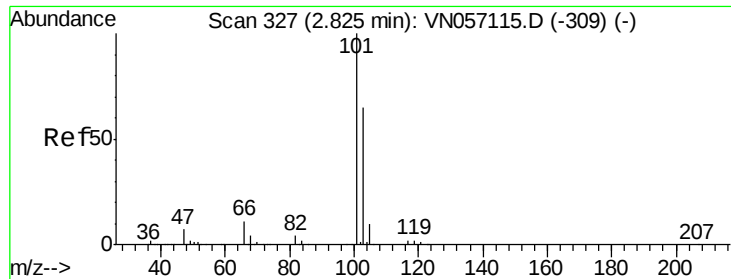
Tgt Ion: 64 Resp: 136230

Ion Ratio Lower Upper

64 100

66 35.4 26.2 39.4





#7

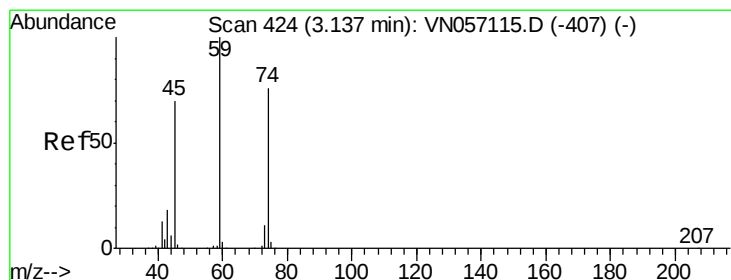
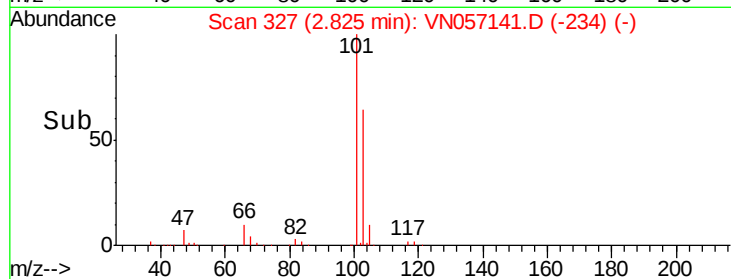
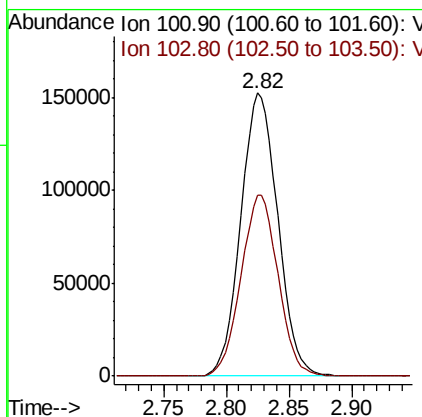
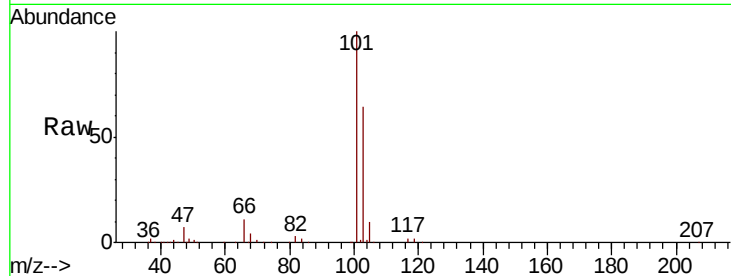
Trichlorofluoromethane
 Concen: 19.187 ug/l
 RT: 2.82 min Scan# 327
 Delta R.T. -0.00 min
 Lab File: VN057141.D
 Acq: 9 Aug 2019 13:00

Instrument :
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 ClientSampleId :
 VN0809WBS01

Tot Ion	Ratio	Lower	Upper
101	100		
103	63.7	52.2	78.4

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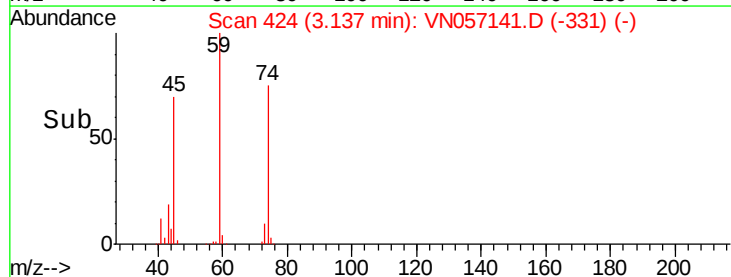
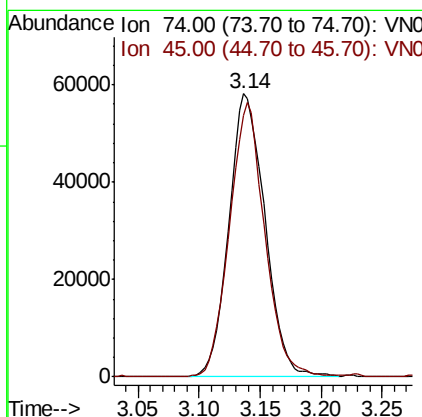
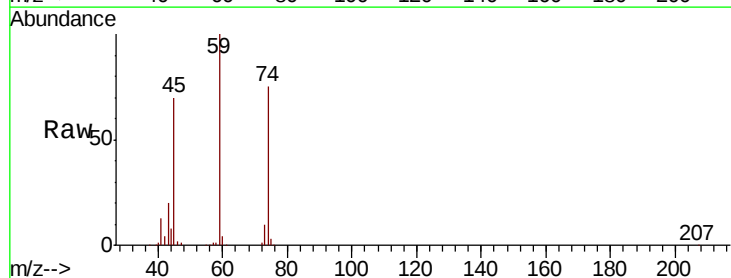
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 8/12/2019 3:34:40 PM

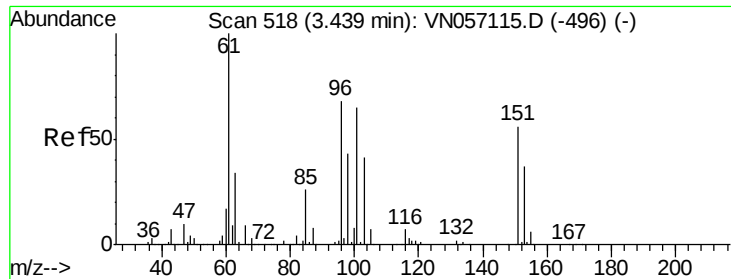


#8

Diethyl Ether
 Concen: 18.999 ug/l
 RT: 3.14 min Scan# 424
 Delta R.T. -0.00 min
 Lab File: VN057141.D
 Acq: 9 Aug 2019 13:00

Tgt Ion	Ratio	Lower	Upper
74	100		
45	94.9	46.3	138.8





#9

1,1,2-Trichlorotrifluoroethane

Concen: 19.388 ug/l

RT: 3.44 min Scan# 518

Delta R.T. -0.00 min

Lab File: VN057141.D

Acq: 9 Aug 2019 13:00

Instrument :

MSVOA_N

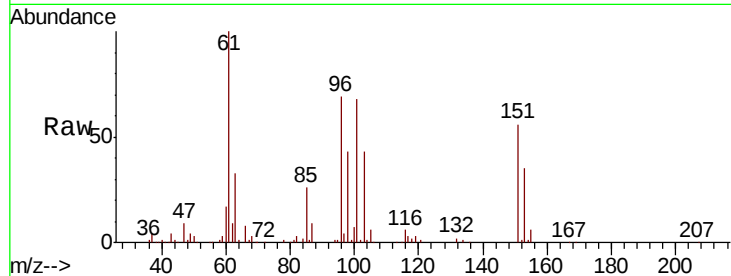
ClientSampleId :

VN0809WBS01

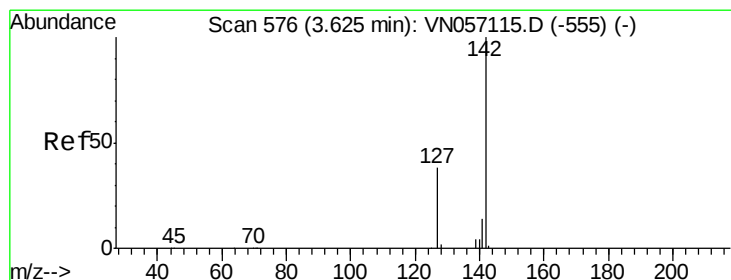
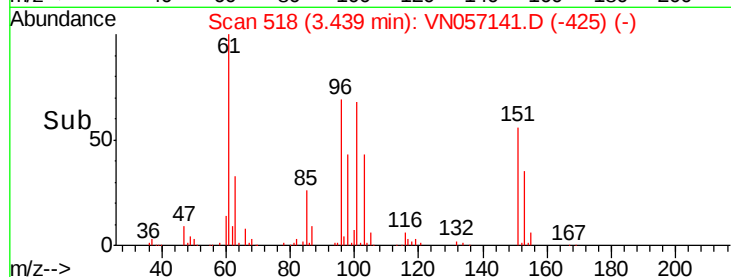
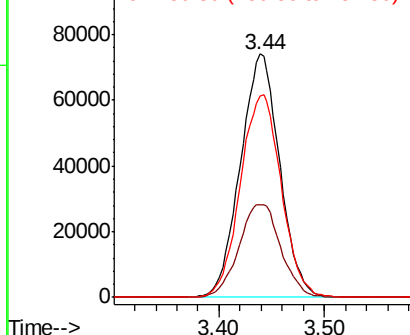
Tot Ion:	101	Resp:	191659
Ion Ratio	Lower	Upper	
101	100		
85	40.8	32.3	48.5
151	86.7	69.4	104.0

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



#10

Methyl Iodide

Concen: 18.532 ug/l

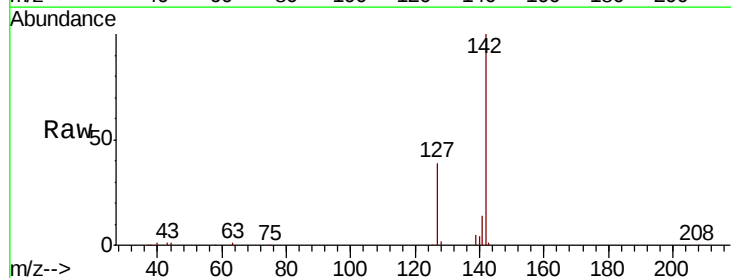
RT: 3.63 min Scan# 576

Delta R.T. -0.00 min

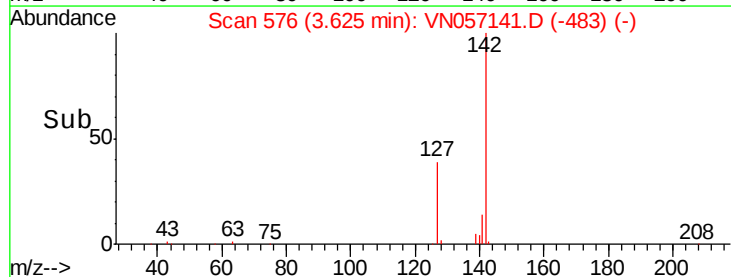
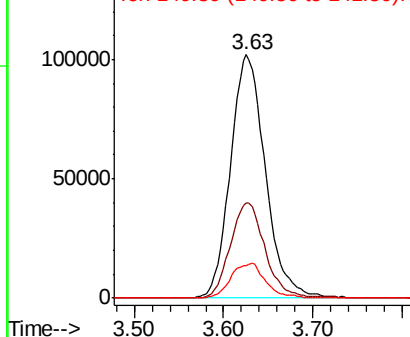
Lab File: VN057141.D

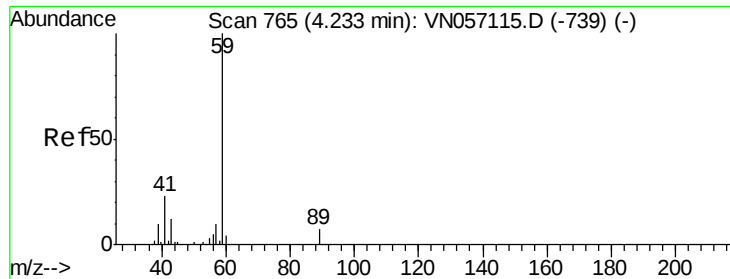
Acq: 9 Aug 2019 13:00

Tgt Ion:	142	Resp:	276841
Ion Ratio	Lower	Upper	
142	100		
127	38.9	31.0	46.6
141	14.4	11.2	16.8



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





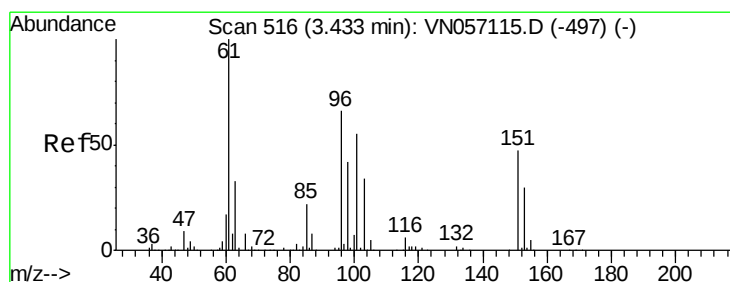
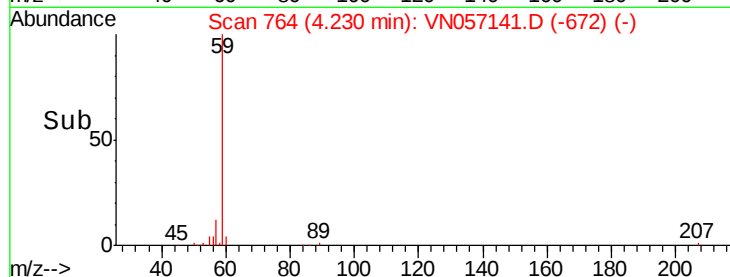
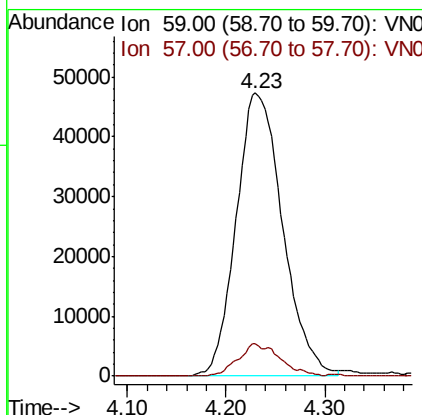
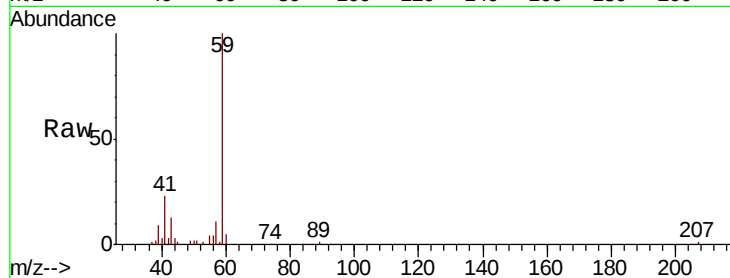
#11
Tert butyl alcohol
Concen: 92.468 ug/l
RT: 4.23 min Scan# 764
Delta R.T. -0.00 min
Lab File: VN057141.D
Acq: 9 Aug 2019 13:00

Instrument :
MSVOA_N
ClientSampleId :
VN0809WBS01

Tot Ion	Ratio	Lower	Upper
59	100		
57	10.3	7.9	11.9

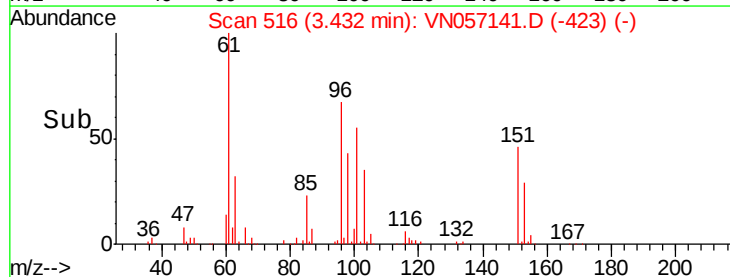
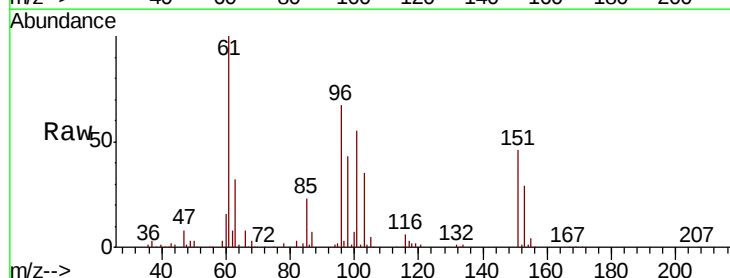
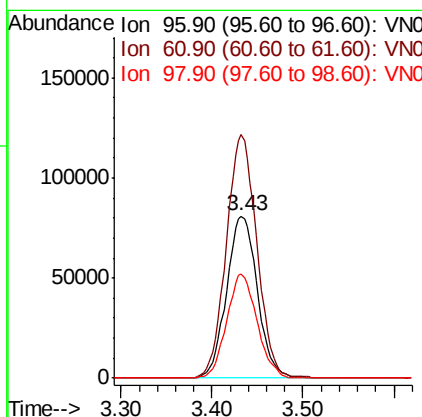
Manual Integrations
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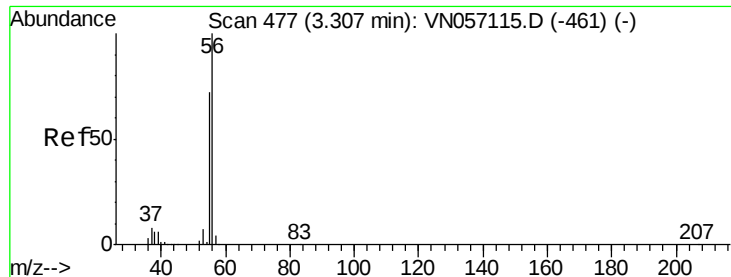
MMDadoda
8/12/2019 3:34:40 PM



#12
1,1-Dichloroethene
Concen: 19.591 ug/l
RT: 3.43 min Scan# 516
Delta R.T. -0.00 min
Lab File: VN057141.D
Acq: 9 Aug 2019 13:00

Tgt Ion	Ratio	Lower	Upper
96	100		
61	150.3	121.0	181.6
98	64.3	50.8	76.2





#13

Acrolein

Concen: 84.186 ug/l

RT: 3.31 min Scan# 478

Delta R.T. 0.00 min

Lab File: VN057141.D

Acq: 9 Aug 2019 13:00

Instrument :

MSVOA_N

ClientSampleId :

VN0809WBS01

Tot Ion: 56 Resp: 89080

Ion Ratio Lower Upper

56 100

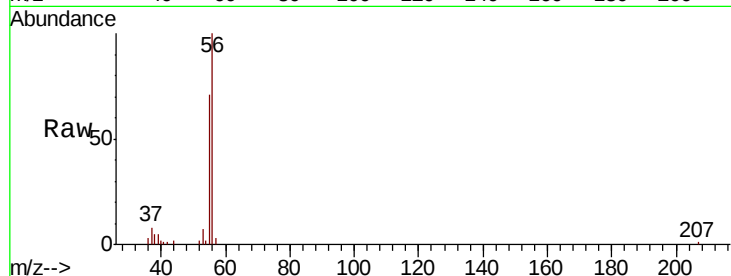
55 73.0 57.7 86.5

Manual Integrations

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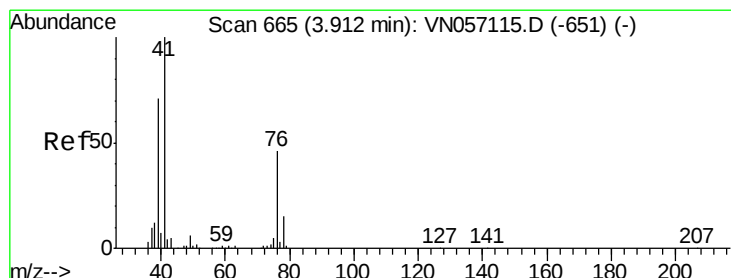
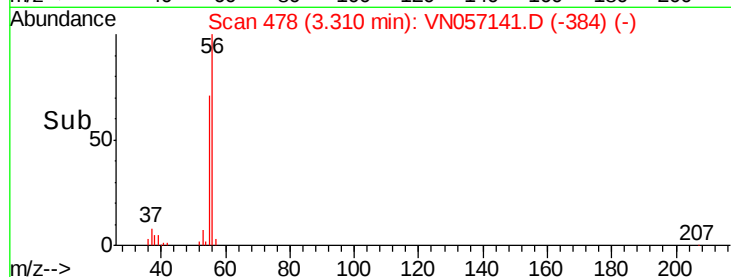
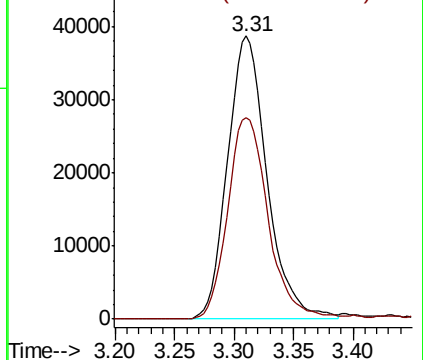
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Abundance Ion 56.00 (55.70 to 56.70): VN0

Ion 55.00 (54.70 to 55.70): VN0



#14

Allyl chloride

Concen: 20.689 ug/l

RT: 3.91 min Scan# 665

Delta R.T. -0.00 min

Lab File: VN057141.D

Acq: 9 Aug 2019 13:00

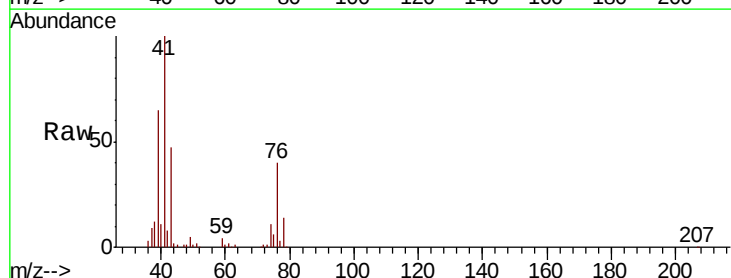
Tgt Ion: 41 Resp: 292395

Ion Ratio Lower Upper

41 100

39 61.0 51.1 76.7

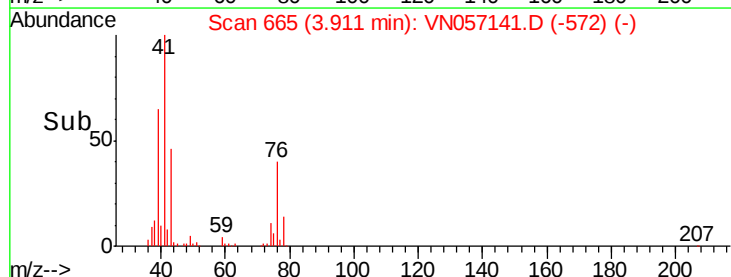
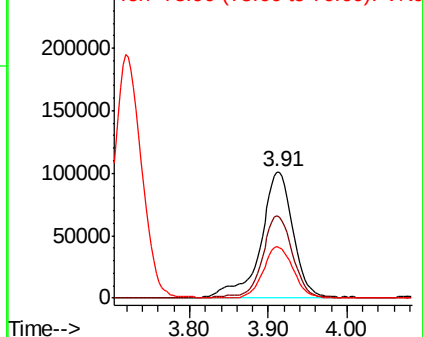
76 37.2 32.8 49.2

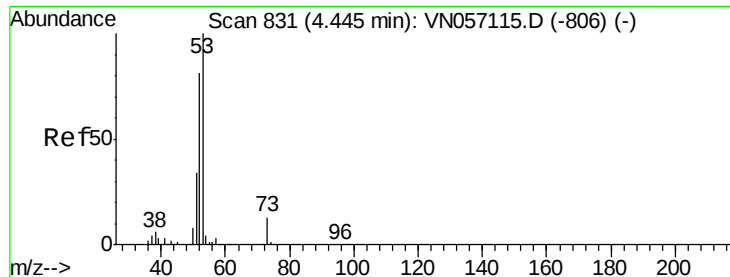


Abundance Ion 41.00 (40.70 to 41.70): VN0

Ion 39.00 (38.70 to 39.70): VN0

Ion 75.90 (75.60 to 76.60): VN0





#15

Acrylonitrile

Concen: 100.426 ug/l

RT: 4.45 min Scan# 832

Delta R.T. 0.00 min

Lab File: VN057141.D

Acq: 9 Aug 2019 13:00

Instrument :

MSVOA_N

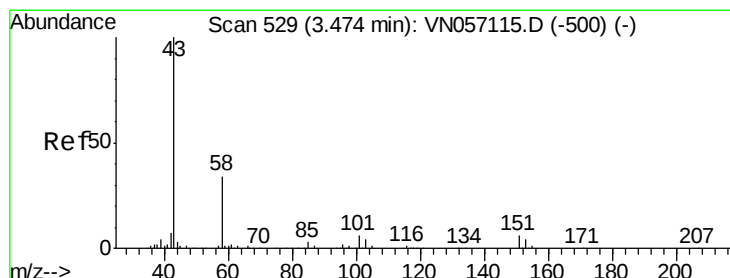
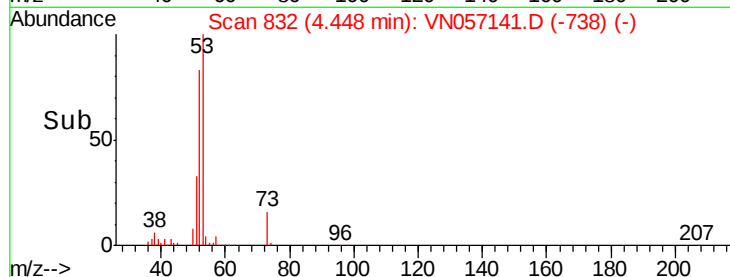
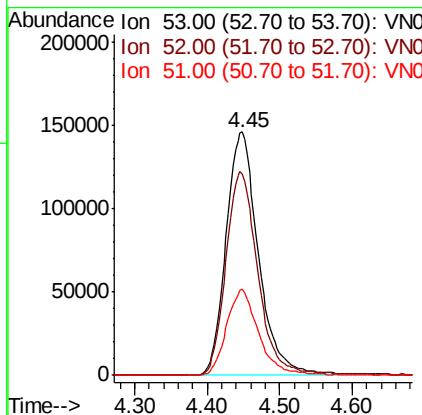
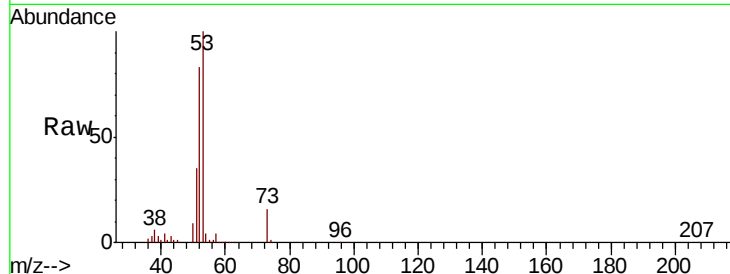
ClientSampleId :

VN0809WBS01

Tot Ion:	53	Resp:	454612
Ion Ratio	Lower	Upper	
53	100		
52	82.0	64.9	97.3
51	34.7	27.8	41.6

Manual Integrations
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#16

Acetone

Concen: 102.742 ug/l

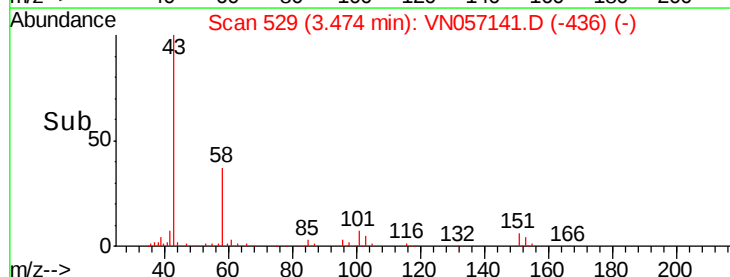
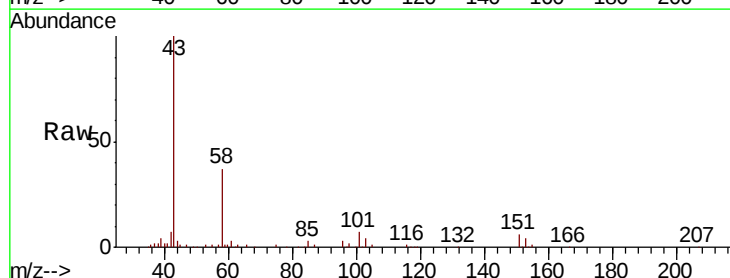
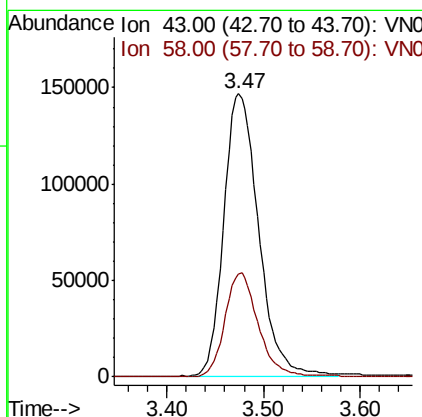
RT: 3.47 min Scan# 529

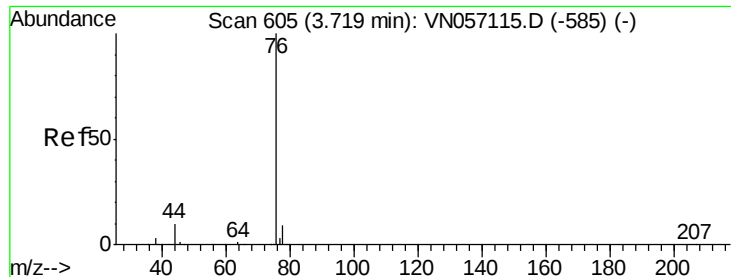
Delta R.T. -0.00 min

Lab File: VN057141.D

Acq: 9 Aug 2019 13:00

Tgt Ion:	43	Resp:	364698
Ion Ratio	Lower	Upper	
43	100		
58	36.6	27.4	41.2





#17

Carbon Disulfide

Concen: 18.258 ug/l

RT: 3.72 min Scan# 605

Delta R.T. -0.00 min

Lab File: VN057141.D

Acq: 9 Aug 2019 13:00

Instrument :

MSVOA_N

ClientSampleId :

VN0809WBS01

Tot Ion: 76 Resp: 472370

Ion Ratio Lower Upper

76 100

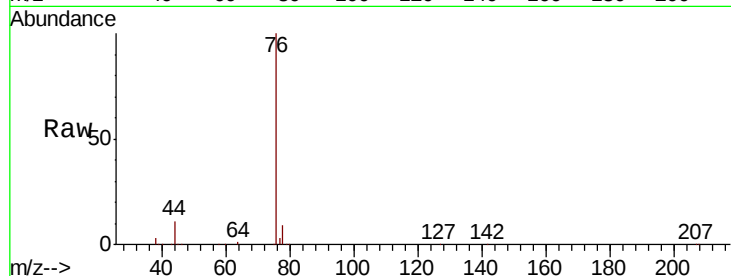
78 8.8 7.0 10.6

Manual Integrations

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Abundance Ion 75.90 (75.60 to 76.60): VN0

Ion 77.90 (77.60 to 78.60): VN0

3.72

200000

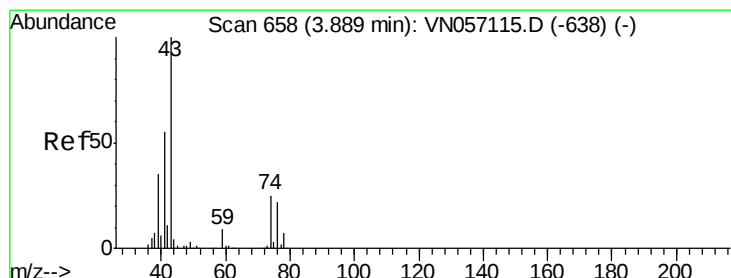
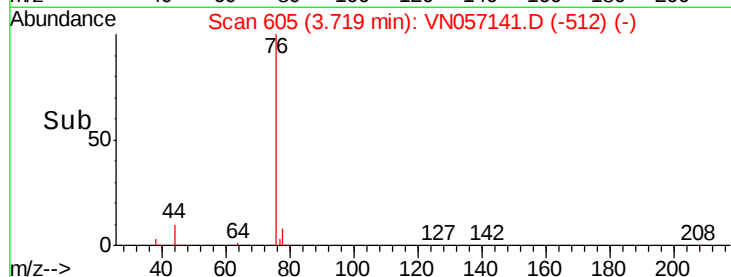
150000

100000

50000

0

Time-->



#18

Methyl Acetate

Concen: 21.248 ug/l

RT: 3.89 min Scan# 659

Delta R.T. 0.00 min

Lab File: VN057141.D

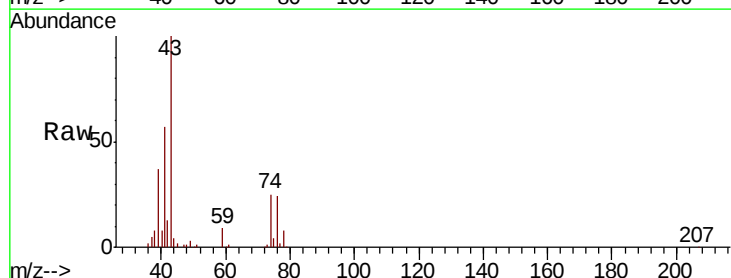
Acq: 9 Aug 2019 13:00

Tgt Ion: 43 Resp: 228711

Ion Ratio Lower Upper

43 100

74 25.6 20.2 30.4



Abundance Ion 43.00 (42.70 to 43.70): VN0

Ion 74.00 (73.70 to 74.70): VN0

3.89

100000

80000

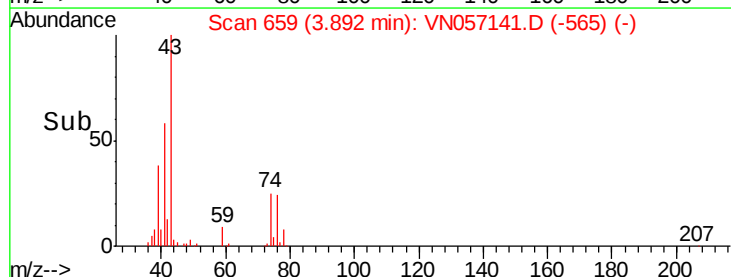
60000

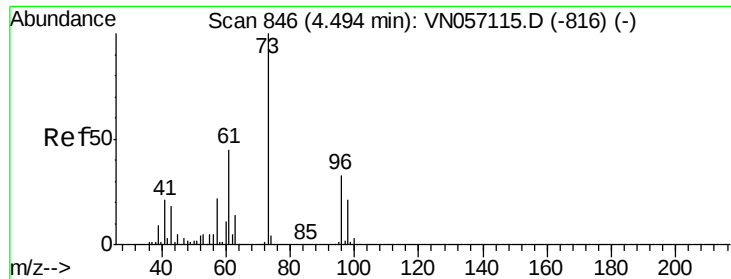
40000

20000

0

Time-->





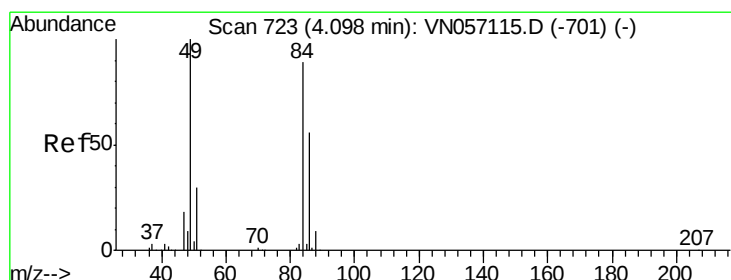
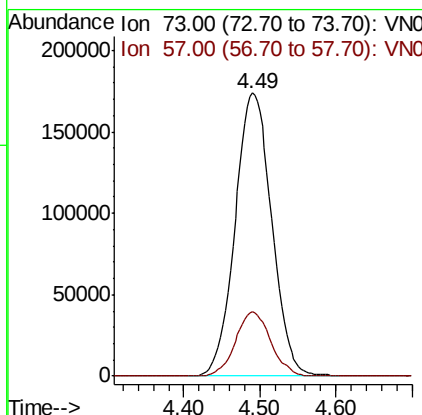
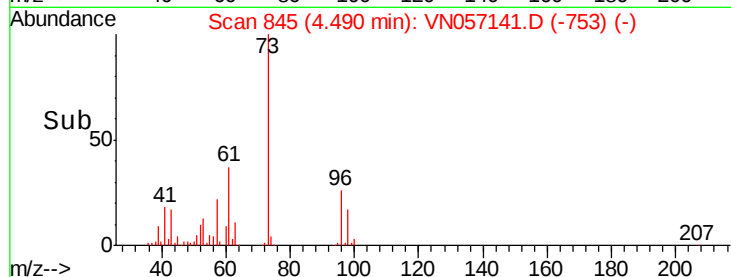
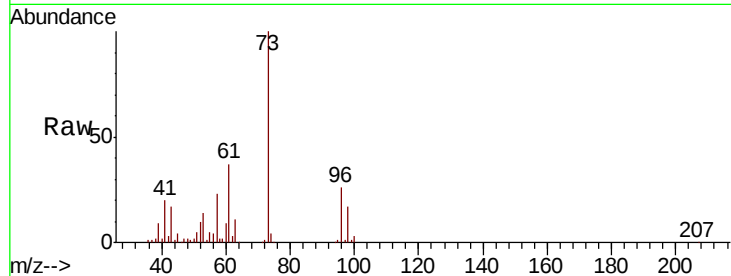
#19
Methvl tert-butvl Ether
Concen: 19.777 ug/l
RT: 4.49 min Scan# 845
Delta R.T. -0.00 min
Lab File: VN057141.D
Acq: 9 Aug 2019 13:00

Instrument :
MSVOA_N
ClientSampleId :
VN0809WBS01

Tot Ion: 73 Resp: 580632
Ion Ratio Lower Upper
73 100
57 22.8 18.0 27.0

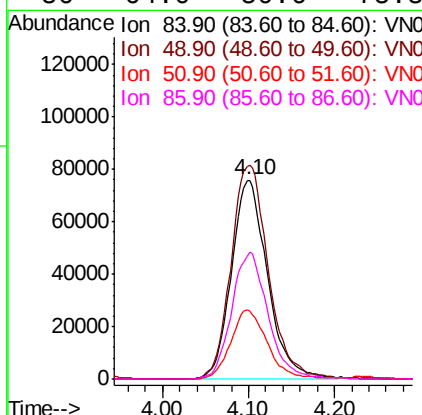
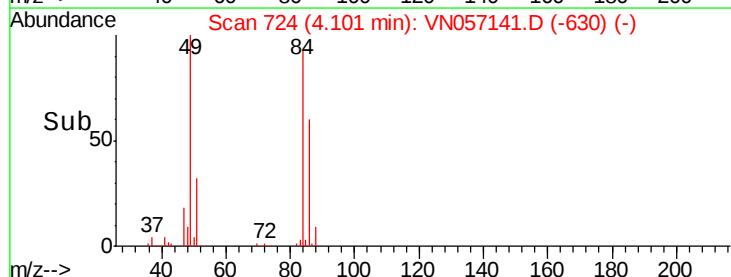
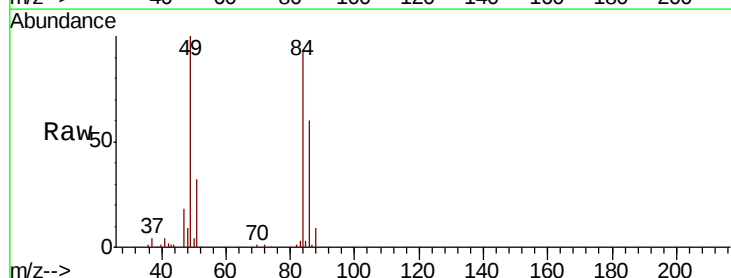
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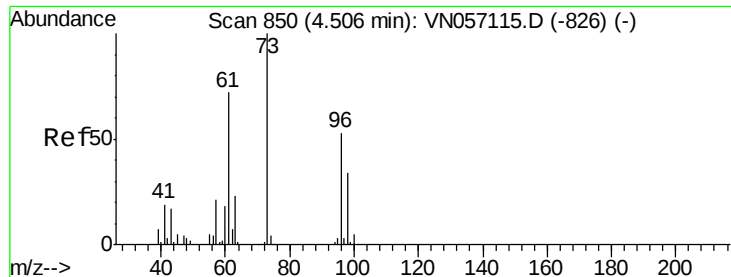
MMDadoda
8/12/2019 3:34:40 PM



#20
Methylene Chloride
Concen: 18.863 ug/l
RT: 4.10 min Scan# 724
Delta R.T. 0.00 min
Lab File: VN057141.D
Acq: 9 Aug 2019 13:00

Tgt Ion: 84 Resp: 220974
Ion Ratio Lower Upper
84 100
49 107.4 89.5 134.3
51 33.9 27.2 40.8
86 64.0 50.6 75.8





#21

trans-1,2-Dichloroethene

Concen: 18.793 ug/l

RT: 4.51 min Scan# 850

Delta R.T. -0.00 min

Lab File: VN057141.D

Acq: 9 Aug 2019 13:00

Instrument :

MSVOA_N

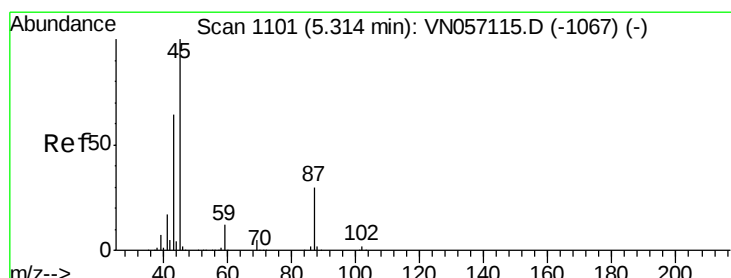
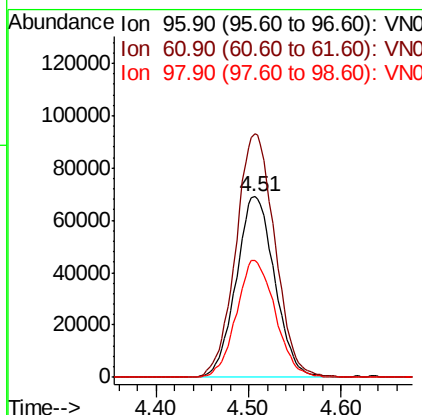
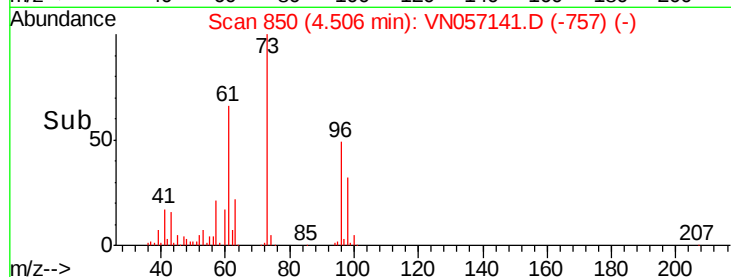
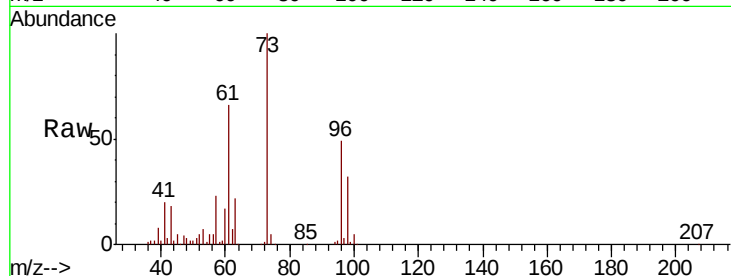
ClientSampleId :

VN0809WBS01

Tot Ion:	96	Resp:	199092
Ion	Ratio	Lower	Upper
96	100		
61	134.9	108.1	162.1
98	64.8	50.5	75.7

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#22

Diisopropyl ether

Concen: 19.613 ug/l

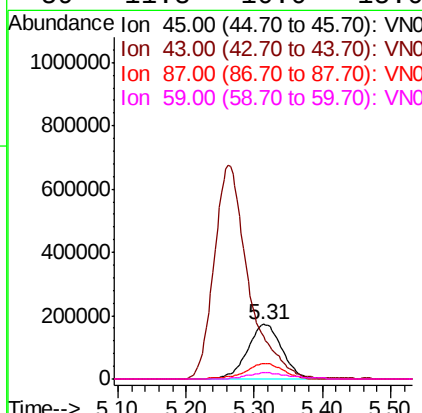
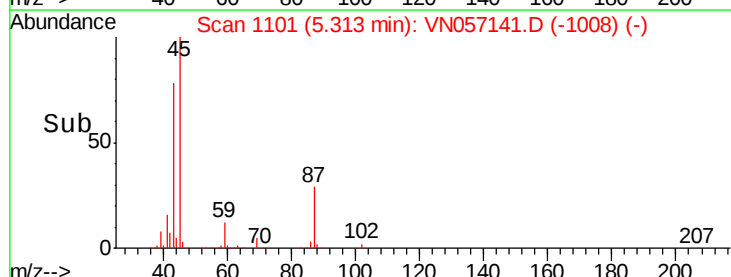
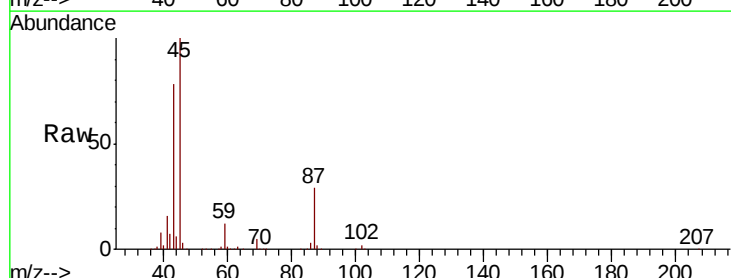
RT: 5.31 min Scan# 1101

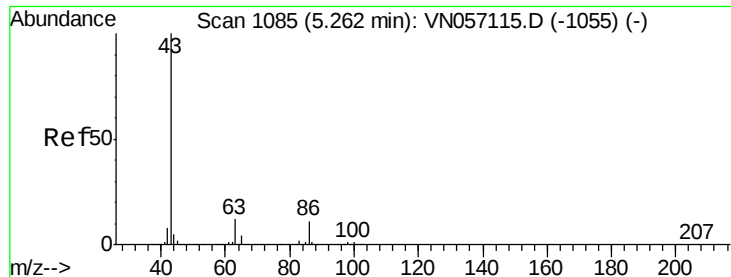
Delta R.T. -0.00 min

Lab File: VN057141.D

Acq: 9 Aug 2019 13:00

Tgt Ion:	45	Resp:	604600
Ion	Ratio	Lower	Upper
45	100		
43	76.2	54.1	81.1
87	29.2	24.0	36.0
59	11.8	10.0	15.0





#23

Vinyl Acetate

Concen: 100.236 ug/l

RT: 5.26 min Scan# 1085

Delta R.T. -0.00 min

Lab File: VN057141.D

Acq: 9 Aug 2019 13:00

Tot Ion: 43 Resp: 2366175

Ion Ratio Lower Upper

43 100

86 11.3 9.2 13.8

Instrument :

MSVOA_N

ClientSampleId :

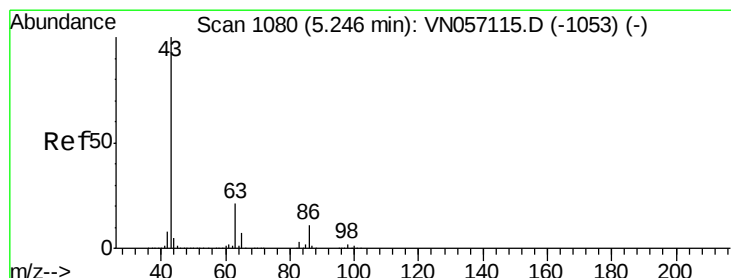
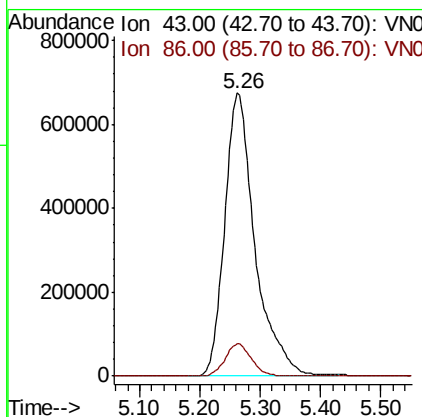
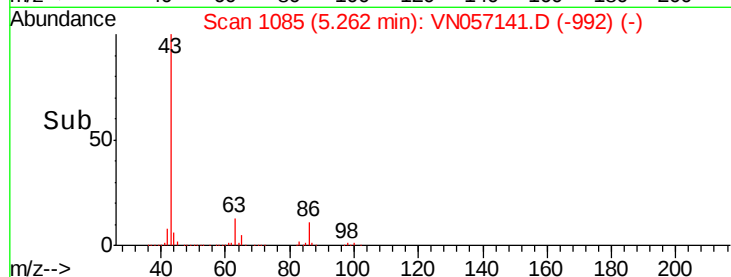
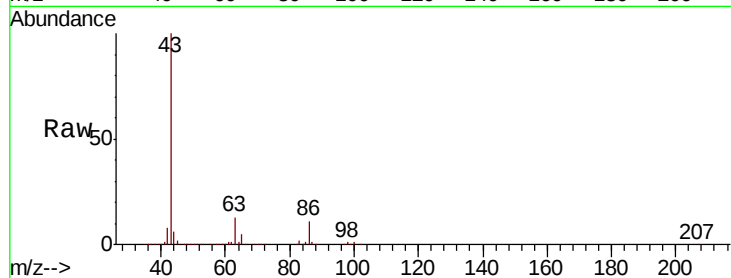
VN0809WBS01

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#24

1,1-Dichloroethane

Concen: 19.233 ug/l

RT: 5.25 min Scan# 1081

Delta R.T. 0.00 min

Lab File: VN057141.D

Acq: 9 Aug 2019 13:00

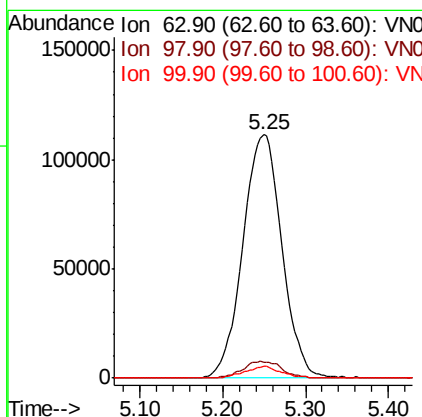
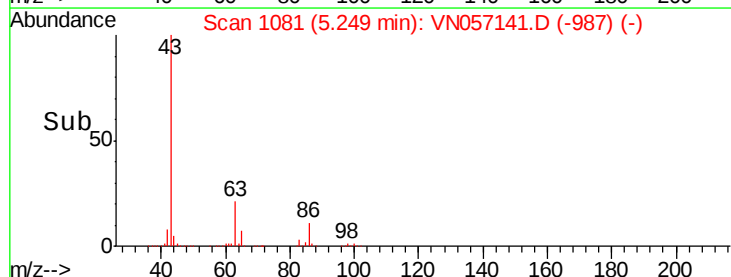
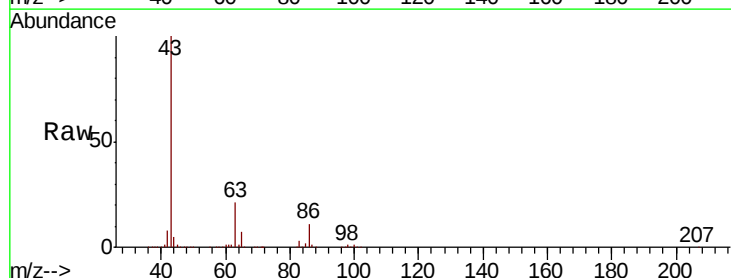
Tgt Ion: 63 Resp: 364479

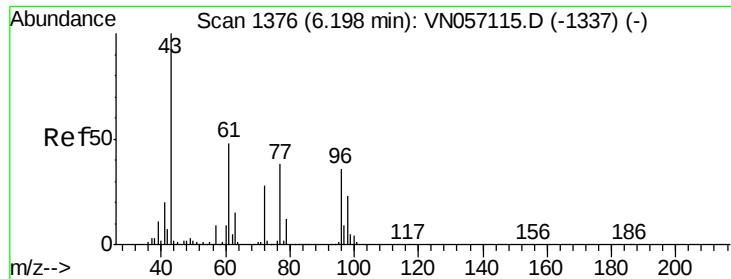
Ion Ratio Lower Upper

63 100

98 6.6 3.8 11.2

100 4.8 2.1 6.3





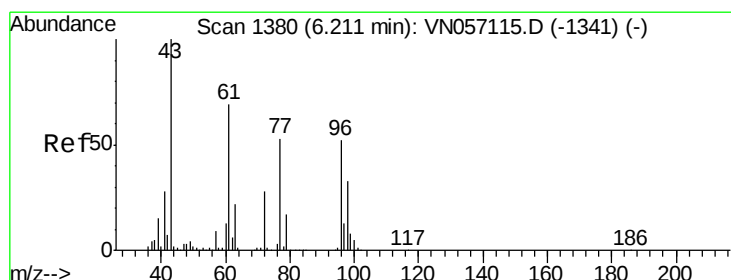
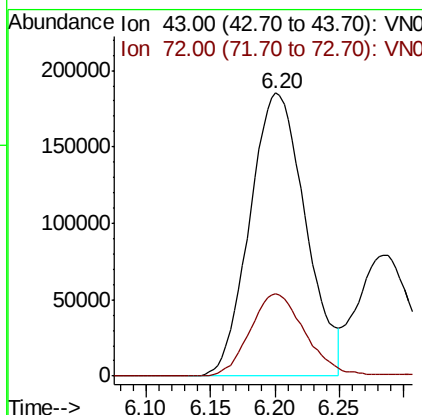
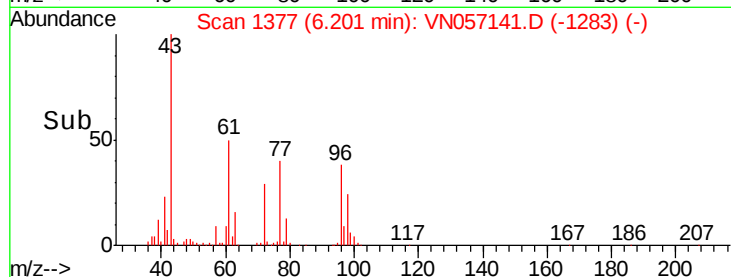
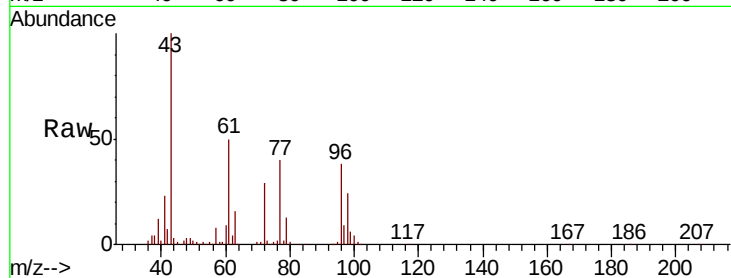
#25
2-Butanone
Concen: 102.562 ug/l
RT: 6.20 min Scan# 1377
Delta R.T. 0.00 min
Lab File: VN057141.D
Acq: 9 Aug 2019 13:00

Instrument :
MSVOA_N
ClientSampleId :
VN0809WBS01

Tot Ion: 43 Resp: 556230
Ion Ratio Lower Upper
43 100
72 29.1 22.2 33.4

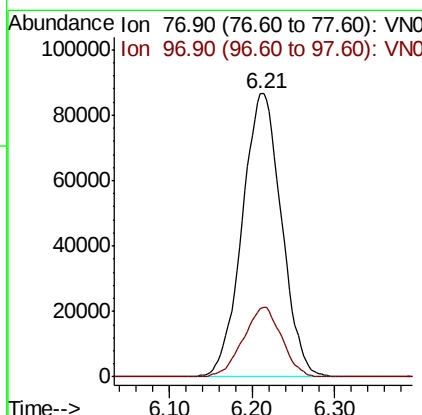
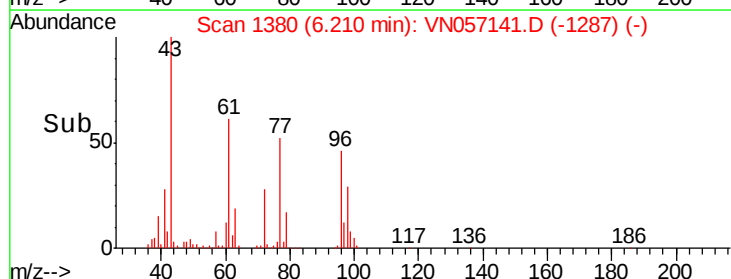
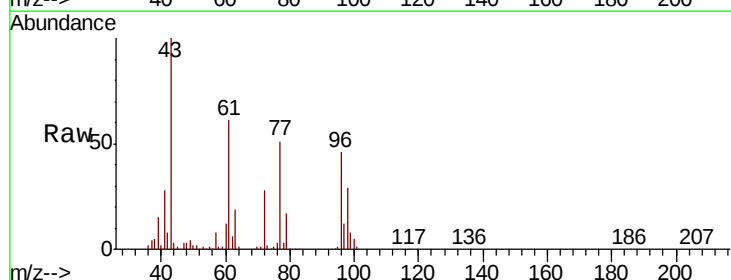
Manual Integrations
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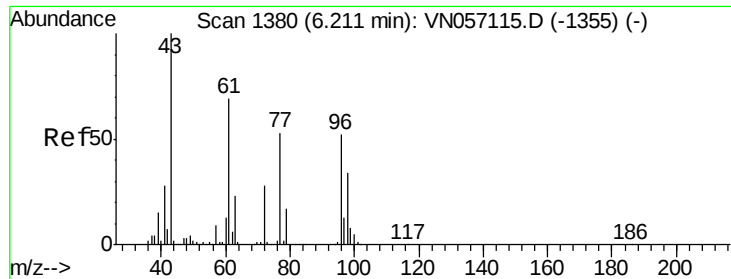
MMDadoda
8/12/2019 3:34:40 PM



#26
2,2-Dichloropropane
Concen: 20.706 ug/l
RT: 6.21 min Scan# 1380
Delta R.T. -0.00 min
Lab File: VN057141.D
Acq: 9 Aug 2019 13:00

Tgt Ion: 77 Resp: 285474
Ion Ratio Lower Upper
77 100
97 24.1 12.3 36.8





#27

cis-1,2-Dichloroethene

Concen: 19.305 ug/l

RT: 6.21 min Scan# 1379

Delta R.T. -0.00 min

Lab File: VN057141.D

Acq: 9 Aug 2019 13:00

Instrument :

MSVOA_N

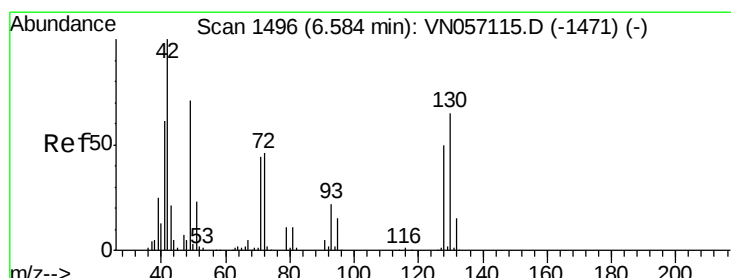
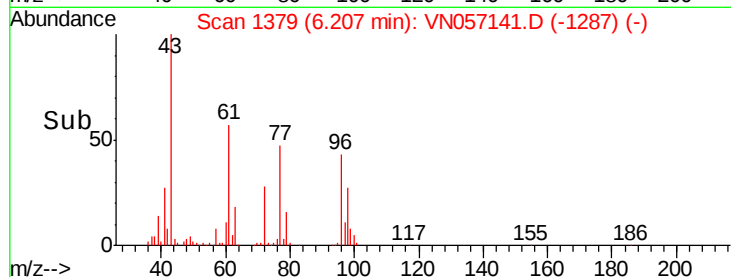
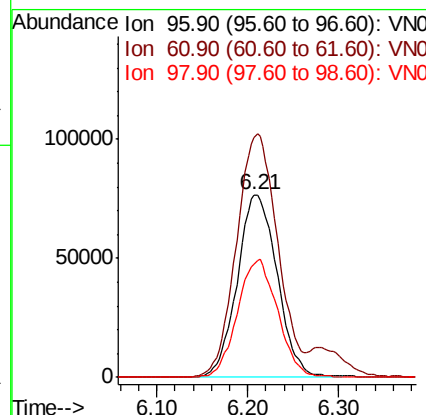
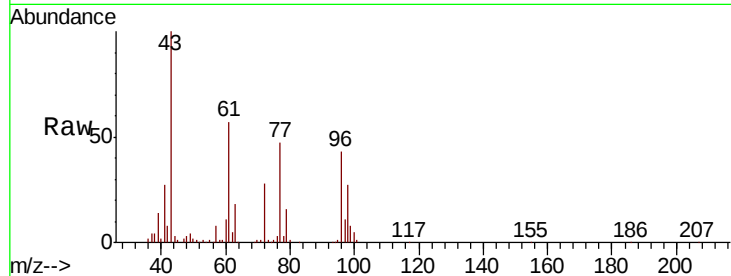
ClientSampleId :

VN0809WBS01

Tot Ion:	96	Resp:	234295
Ion	Ratio	Lower	Upper
96	100		
61	136.9	0.0	273.4
98	64.7	0.0	130.4

Manual Integrations
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8/12/2019 3:34:40 PM



#28

Bromochloromethane

Concen: 20.119 ug/l

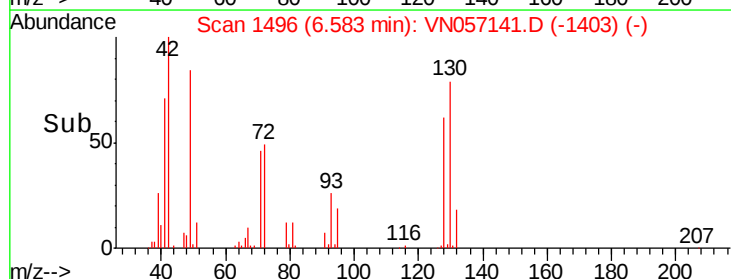
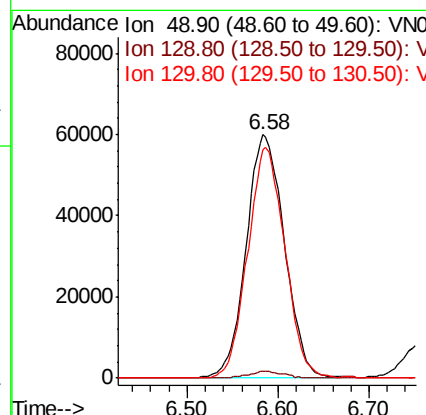
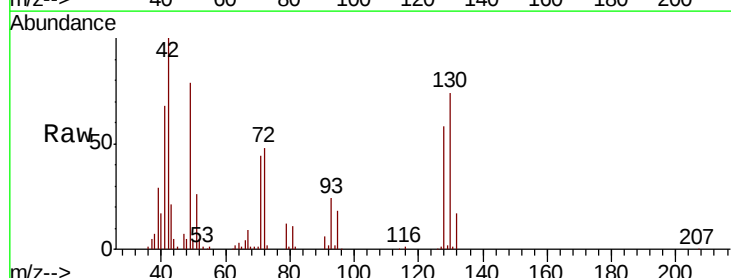
RT: 6.58 min Scan# 1496

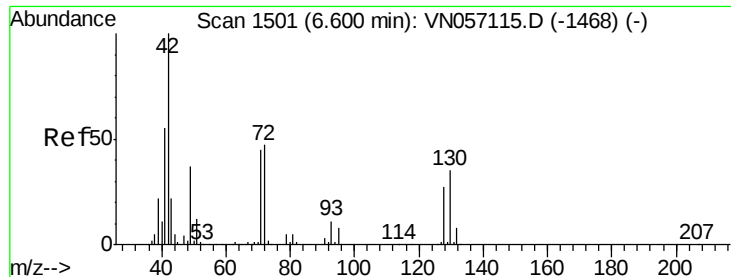
Delta R.T. -0.00 min

Lab File: VN057141.D

Acq: 9 Aug 2019 13:00

Tgt Ion:	49	Resp:	175366
Ion	Ratio	Lower	Upper
49	100		
129	2.5	0.0	4.8
130	91.8	73.8	110.8





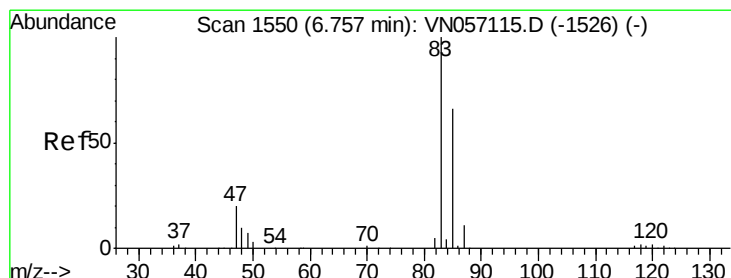
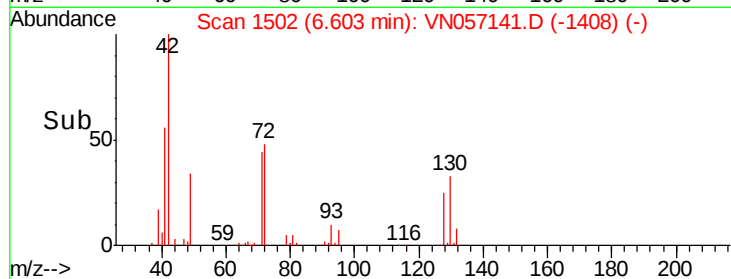
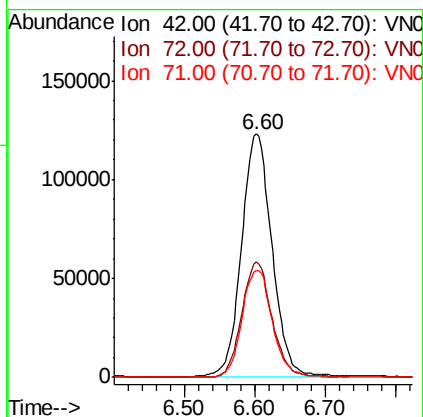
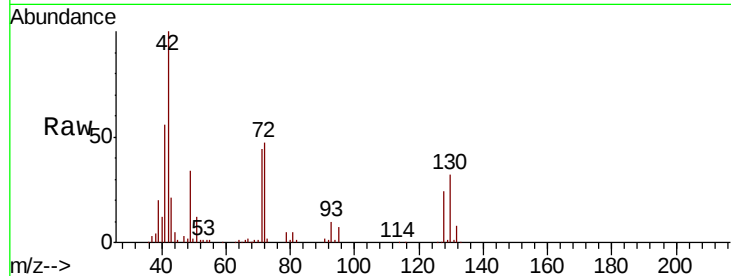
#29
Tetrahydrofuran
Concen: 101.436 ug/l
RT: 6.60 min Scan# 1502
Delta R.T. 0.00 min
Lab File: VN057141.D
Acq: 9 Aug 2019 13:00

Instrument :
MSVOA_N
ClientSampleId :
VN0809WBS01

Tot Ion	Ratio	Lower	Upper
42	100		
72	46.9	37.1	55.7
71	43.7	34.8	52.2

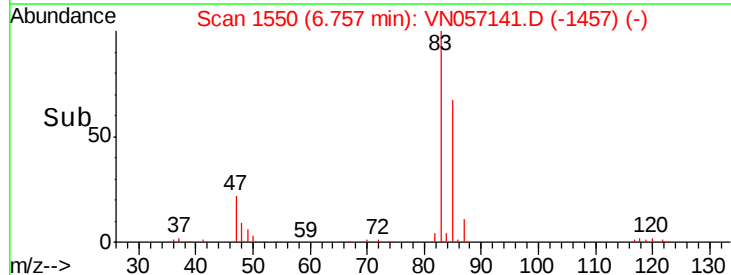
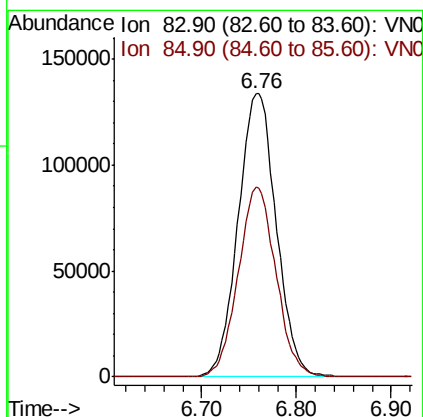
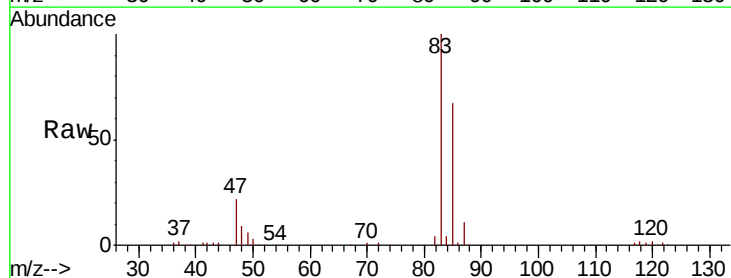
Manual Integrations
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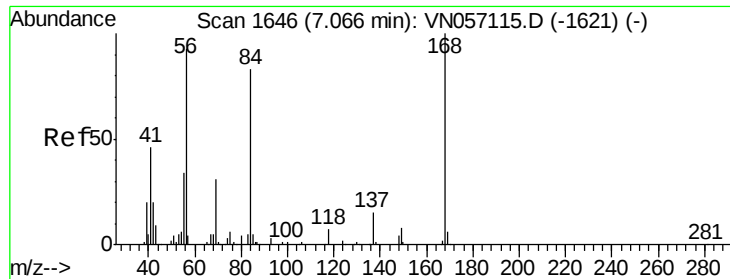
MMDadoda
8/12/2019 3:34:40 PM



#30
Chloroform
Concen: 19.074 ug/l
RT: 6.76 min Scan# 1550
Delta R.T. -0.00 min
Lab File: VN057141.D
Acq: 9 Aug 2019 13:00

Tgt Ion	Ratio	Lower	Upper
83	100		
85	67.0	52.6	78.8





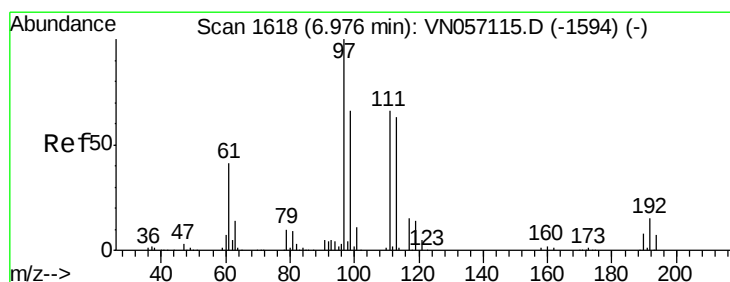
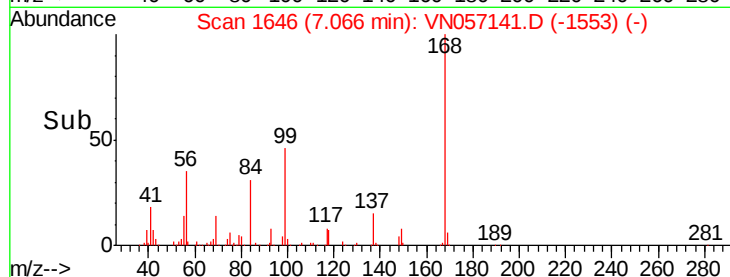
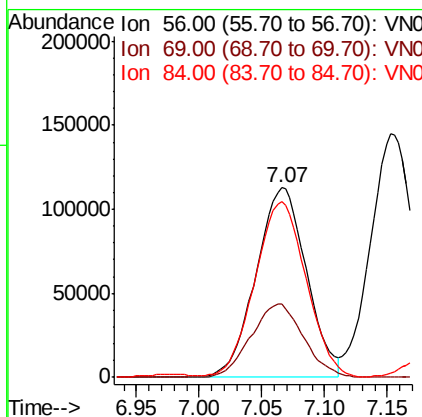
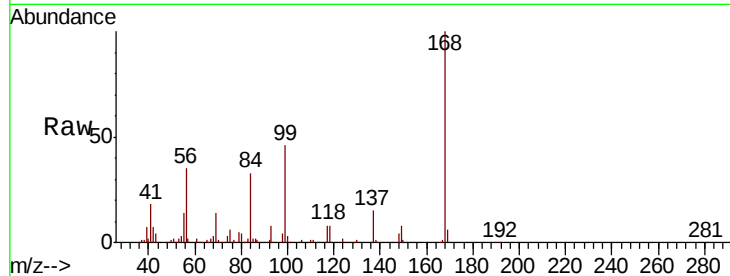
#31
Cyclohexane
Concen: 18.508 ug/l
RT: 7.07 min Scan# 1646
Delta R.T. -0.00 min
Lab File: VN057141.D
Acq: 9 Aug 2019 13:00

Instrument :
MSVOA_N
ClientSampleId :
VN0809WBS01

Tot Ion	Ratio	Lower	Upper
56	100		
69	38.6	26.9	40.3
84	91.4	71.9	107.9

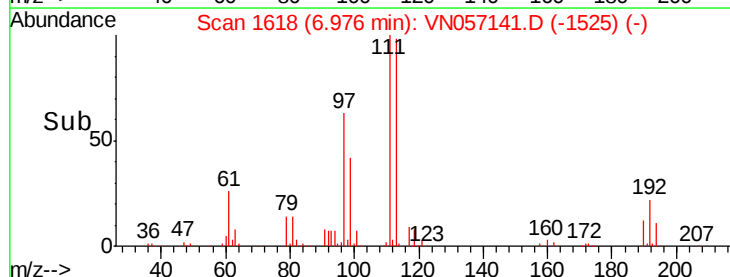
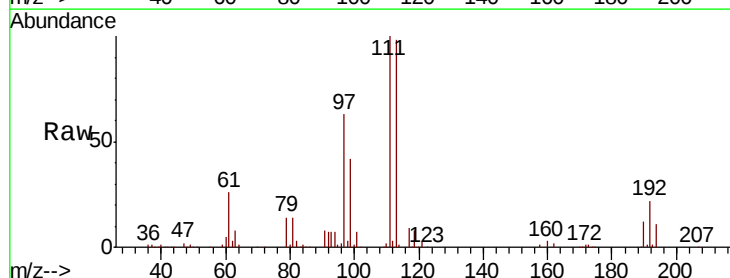
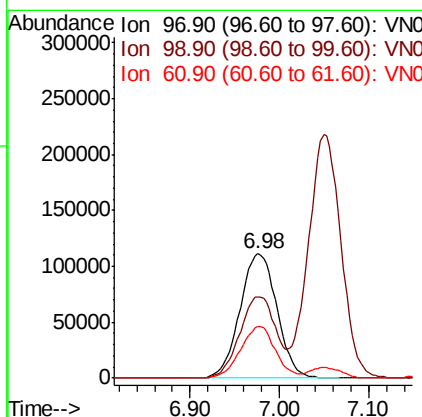
Manual Integrations
APPROVED

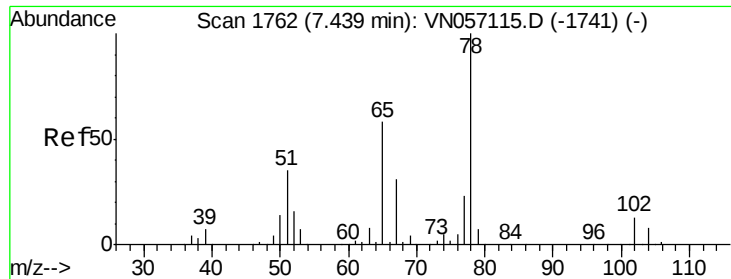
MMDadoda
8/12/2019 3:34:40 PM



#32
1,1,1-Trichloroethane
Concen: 19.417 ug/l
RT: 6.98 min Scan# 1618
Delta R.T. -0.00 min
Lab File: VN057141.D
Acq: 9 Aug 2019 13:00

Tgt Ion	Ratio	Lower	Upper
97	100		
99	63.8	51.8	77.6
61	39.5	32.7	49.1





#33

1,2-Dichloroethane-d4

Concen: 48.758 ug/l

RT: 7.44 min Scan# 1762

Delta R.T. -0.00 min

Lab File: VN057141.D

Acq: 9 Aug 2019 13:00

Tot Ion: 65 Resp: 573092

Ion Ratio Lower Upper

65 100

67 54.3 0.0 108.2

Instrument :

MSVOA_N

ClientSampleId :

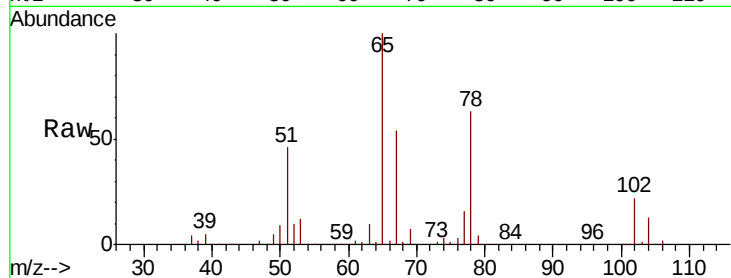
VN0809WBS01

Manual Integrations

APPROVED

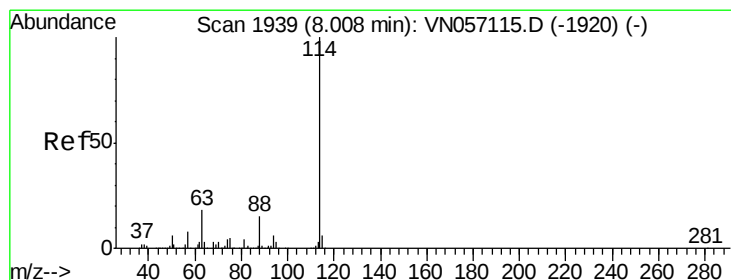
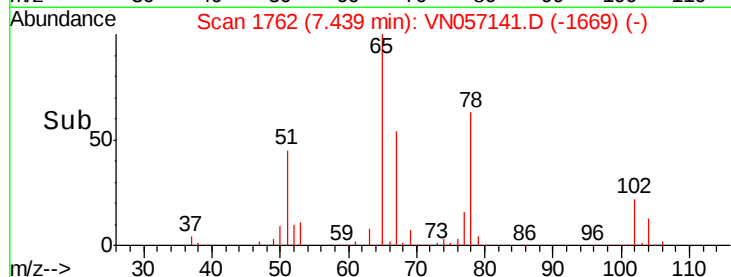
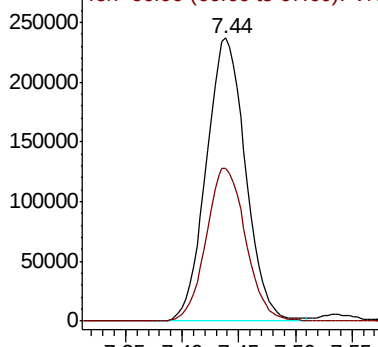
MMDadoda

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Abundance Ion 64.90 (64.60 to 65.60): VN0

Ion 66.90 (66.60 to 67.60): VN0



#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 8.01 min Scan# 1939

Delta R.T. -0.00 min

Lab File: VN057141.D

Acq: 9 Aug 2019 13:00

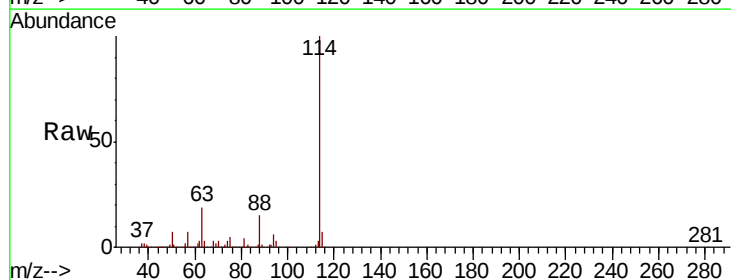
Tgt Ion:114 Resp: 1696346

Ion Ratio Lower Upper

114 100

63 18.9 0.0 36.2

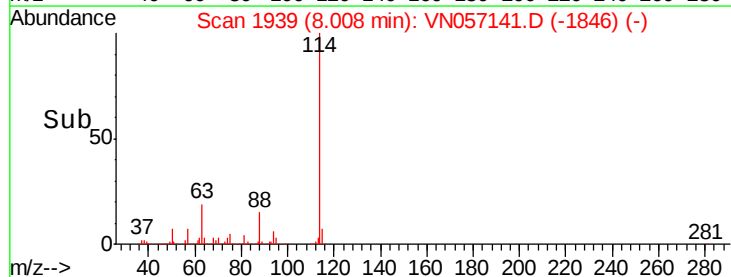
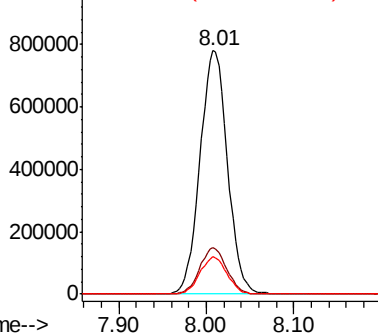
88 15.3 0.0 30.0

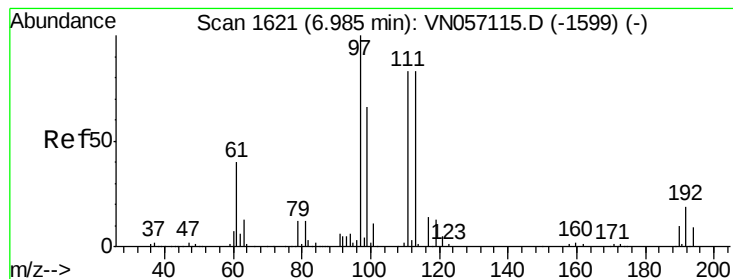


Abundance Ion 113.90 (113.60 to 114.60): V

Ion 63.00 (62.70 to 63.70): VN0

Ion 87.90 (87.60 to 88.60): VN0





#35

Dibromofluoromethane

Concen: 48.432 ug/l

RT: 6.99 min Scan# 1621

Delta R.T. -0.00 min

Lab File: VN057141.D

Acq: 9 Aug 2019 13:00

Instrument :

MSVOA_N

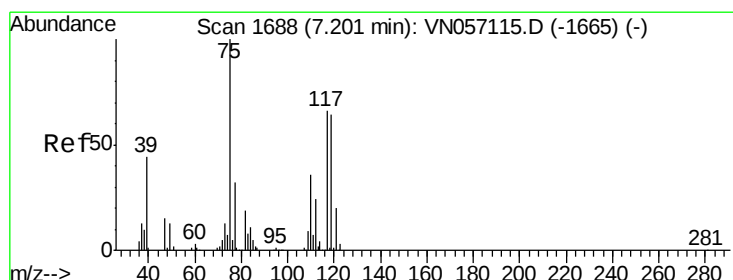
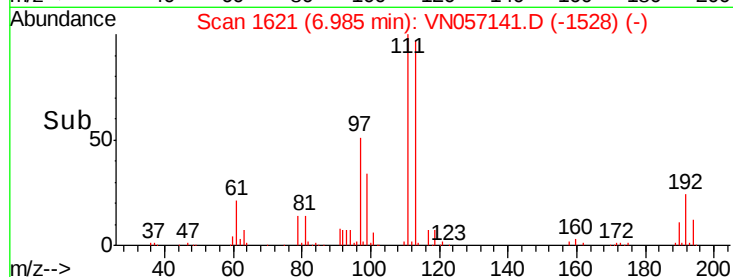
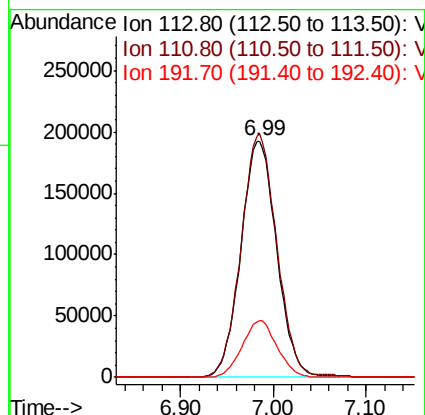
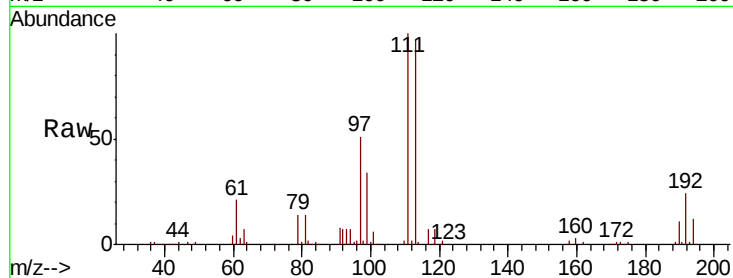
ClientSampleId :

VN0809WBS01

Tot Ion:	113	Resp:	515547
Ion Ratio	Lower	Upper	
113	100		
111	103.1	81.3	121.9
192	23.7	19.0	28.4

Manual Integrations
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#36

1,1-Dichloropropene

Concen: 19.711 ug/l

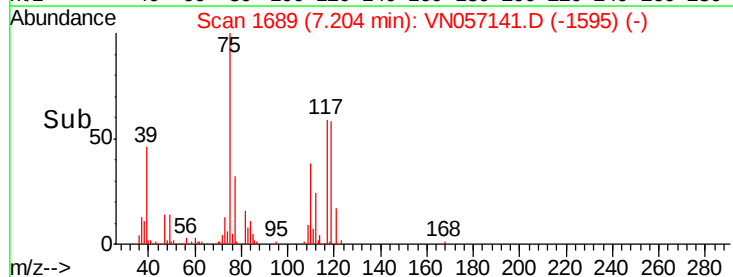
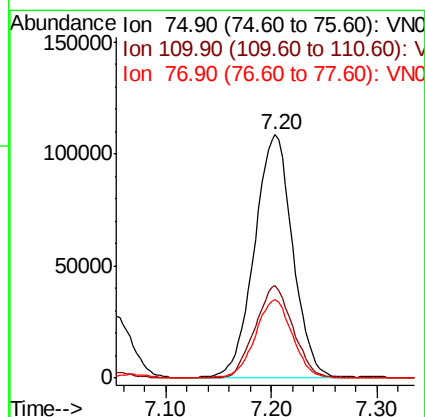
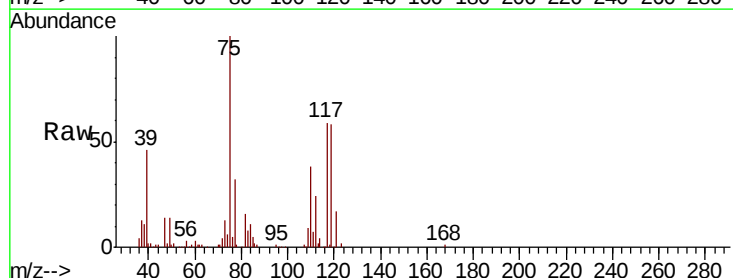
RT: 7.20 min Scan# 1689

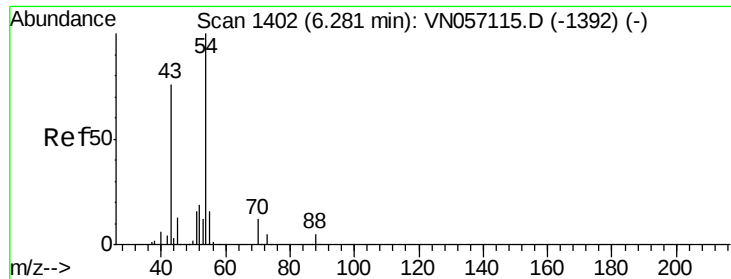
Delta R.T. 0.00 min

Lab File: VN057141.D

Acq: 9 Aug 2019 13:00

Tgt Ion:	75	Resp:	275303
Ion Ratio	Lower	Upper	
75	100		
110	37.6	18.7	56.1
77	31.7	25.0	37.4





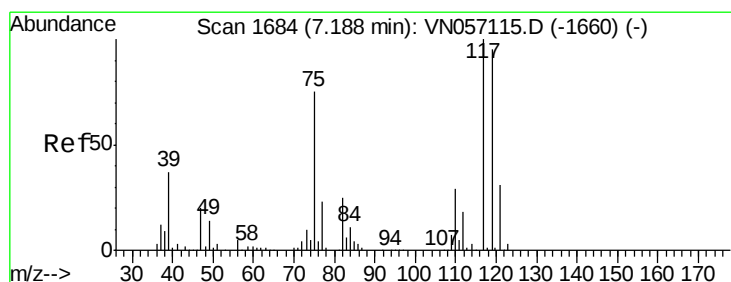
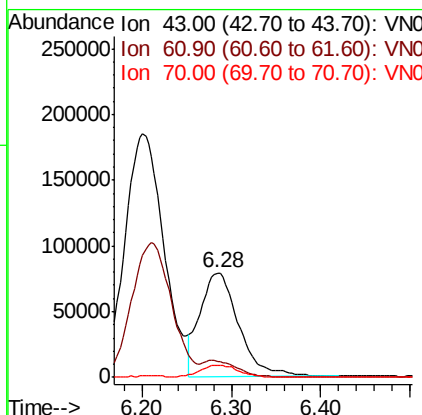
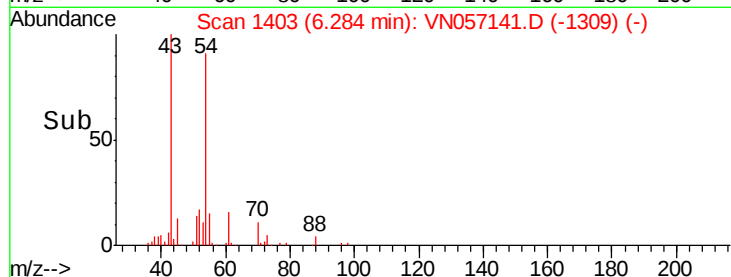
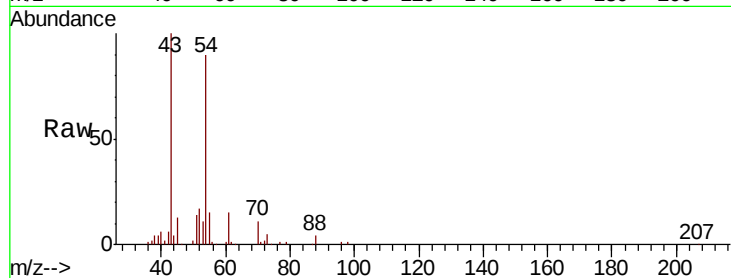
#37
Ethyl Acetate
Concen: 20.559 ug/l
RT: 6.28 min Scan# 1403
Delta R.T. 0.00 min
Lab File: VN057141.D
Acq: 9 Aug 2019 13:00

Instrument :
MSVOA_N
ClientSampleId :
VN0809WBS01

Tot Ion	Ratio	Lower	Upper
43	100		
61	0.0	0.0	0.0
70	11.3	9.1	13.7

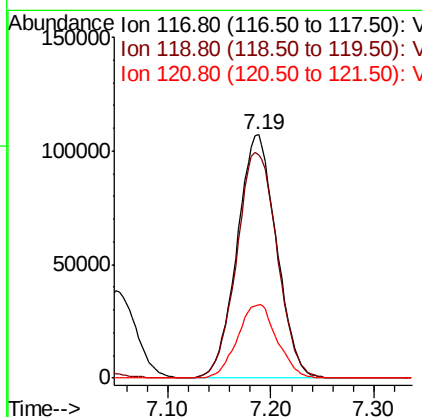
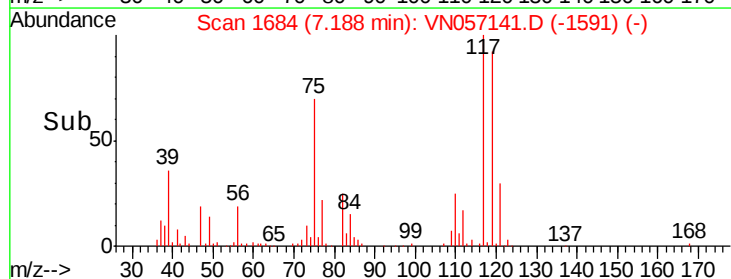
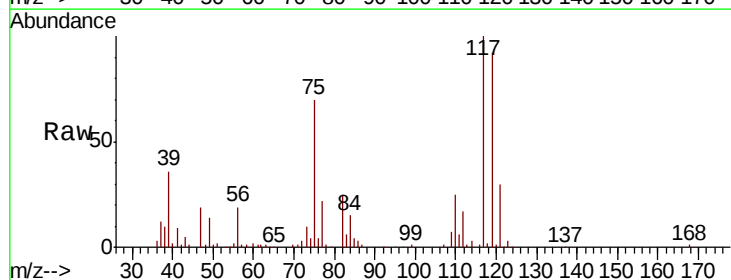
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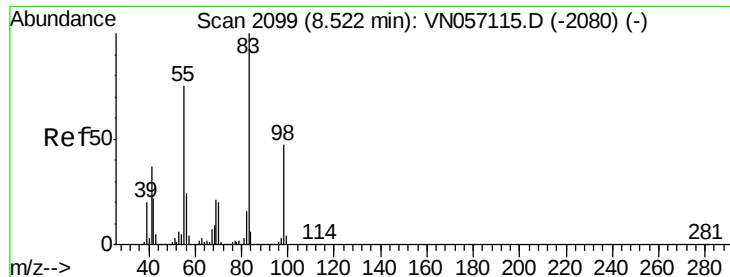
MMDadoda
8/12/2019 3:34:40 PM



#38
Carbon Tetrachloride
Concen: 19.561 ug/l
RT: 7.19 min Scan# 1684
Delta R.T. -0.00 min
Lab File: VN057141.D
Acq: 9 Aug 2019 13:00

Tgt Ion	Ratio	Lower	Upper
117	100		
119	91.8	75.8	113.6
121	30.4	24.4	36.6





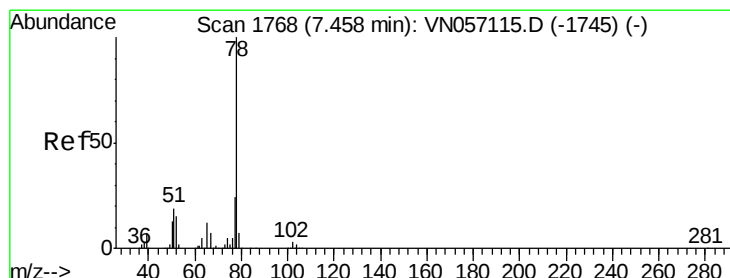
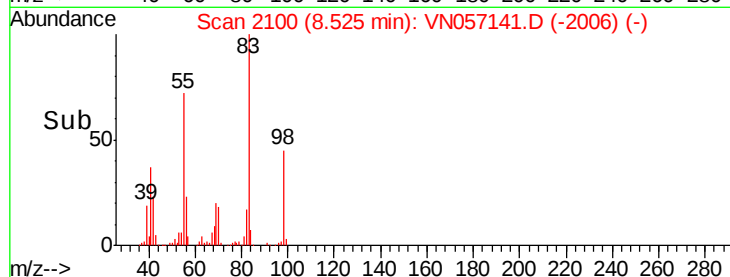
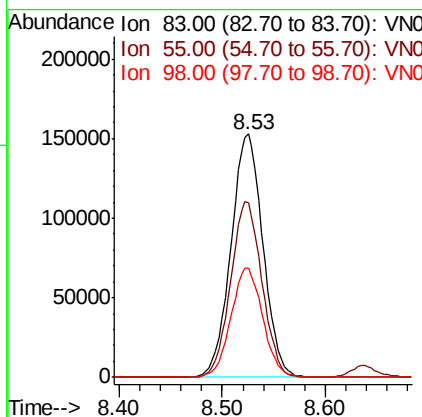
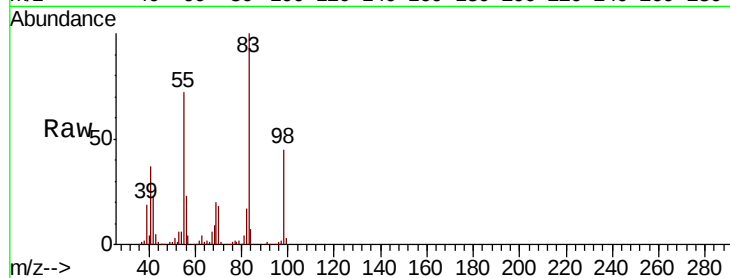
#39
Methvlcvclohexane
Concen: 19.423 ug/l
RT: 8.53 min Scan# 2100
Delta R.T. 0.00 min
Lab File: VN057141.D
Acq: 9 Aug 2019 13:00

Instrument :
MSVOA_N
ClientSampleId :
VN0809WBS01

Tot Ion	Ratio	Lower	Upper
83	100		
55	71.8	60.3	90.5
98	44.7	37.9	56.9

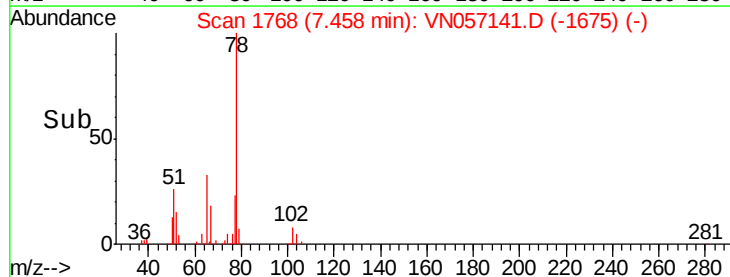
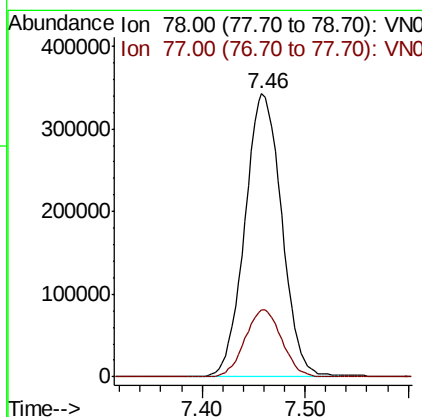
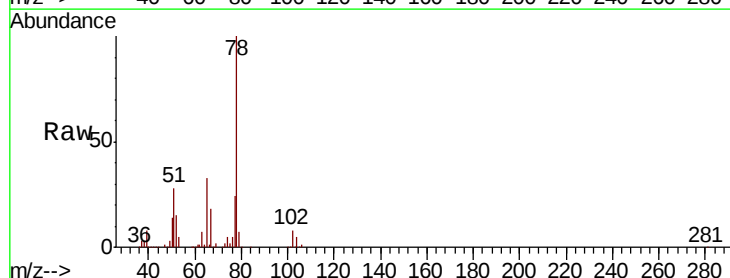
Manual Integrations
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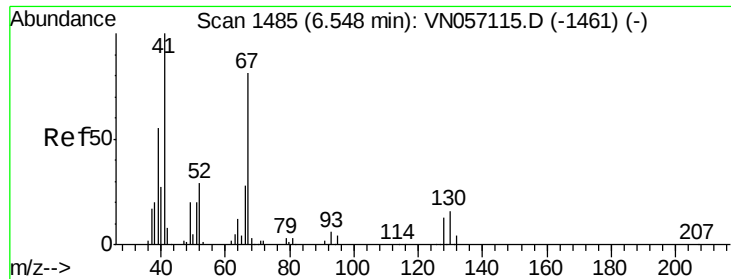
MMDadoda
8/12/2019 3:34:40 PM



#40
Benzene
Concen: 19.233 ug/l
RT: 7.46 min Scan# 1768
Delta R.T. -0.00 min
Lab File: VN057141.D
Acq: 9 Aug 2019 13:00

Tgt Ion	Ratio	Lower	Upper
78	100		
77	23.8	19.2	28.8





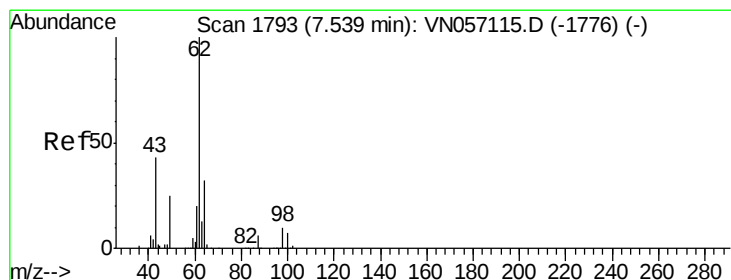
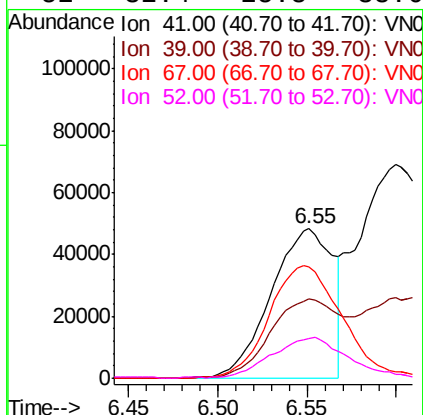
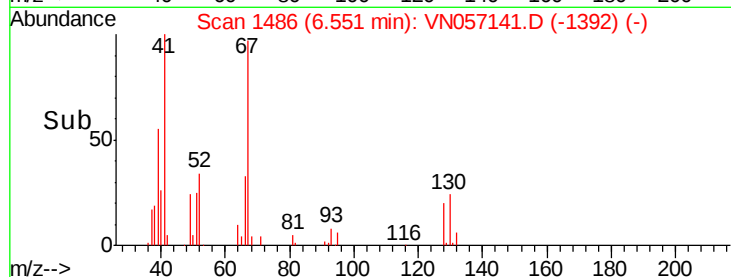
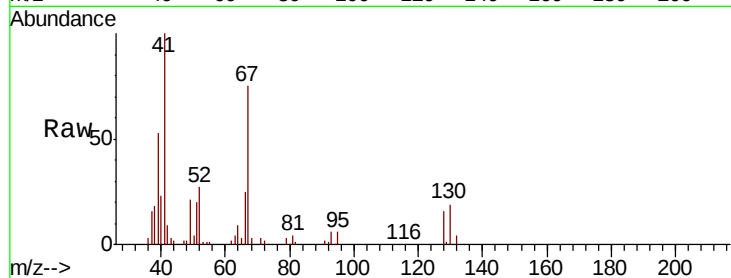
#41
Methacrylonitrile
Concen: 19.905 ug/l
RT: 6.55 min Scan# 1486
Delta R.T. 0.00 min
Lab File: VN057141.D
Acq: 9 Aug 2019 13:00

Instrument :
MSVOA_N
ClientSampleId :
VN0809WBS01

Tot Ion	Ion	Ratio	Resp	Lower	Upper
41	100				
39	60.5	44.9	67.3		
67	88.8	69.1	103.7		
52	32.4	25.8	38.6		

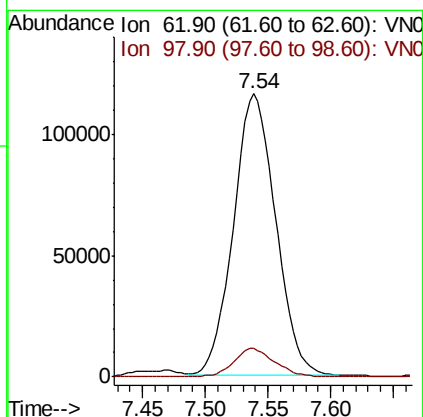
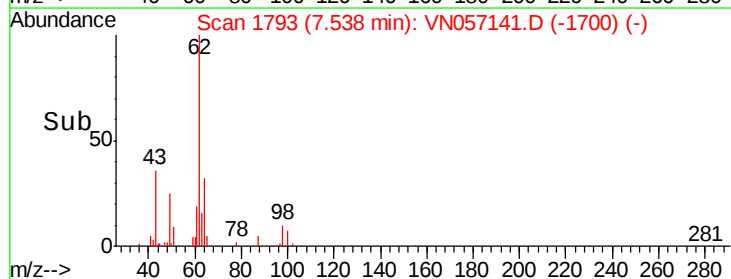
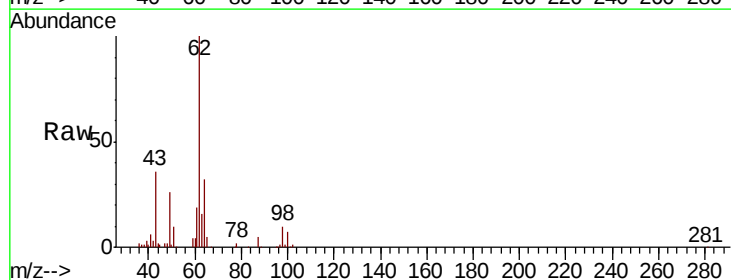
Manual Integrations
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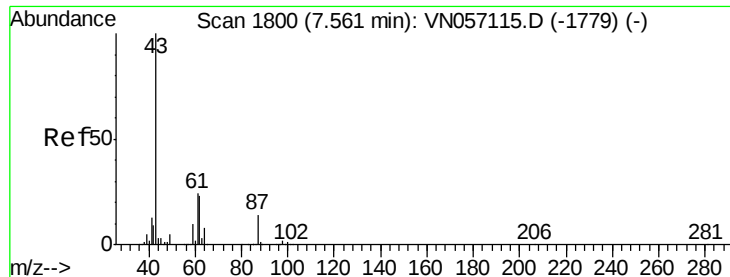
MMDadoda
8/12/2019 3:34:40 PM



#42
1,2-Dichloroethane
Concen: 19.279 ug/l
RT: 7.54 min Scan# 1793
Delta R.T. -0.00 min
Lab File: VN057141.D
Acq: 9 Aug 2019 13:00

Tgt Ion	Ion	Ratio	Resp	Lower	Upper
62	100				
98	9.8	0.0	19.4		





#43

Isopropyl Acetate

Concen: 20.118 ug/l

RT: 7.56 min Scan# 1801

Delta R.T. 0.00 min

Lab File: VN057141.D

Acq: 9 Aug 2019 13:00

Instrument :

MSVOA_N

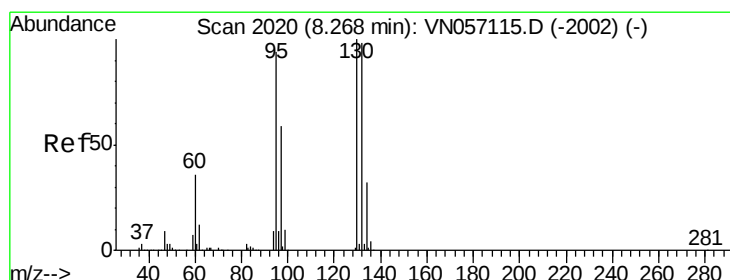
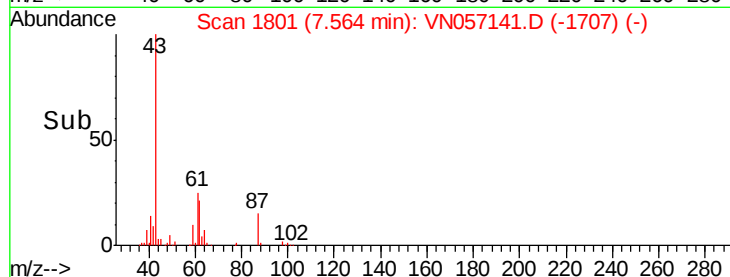
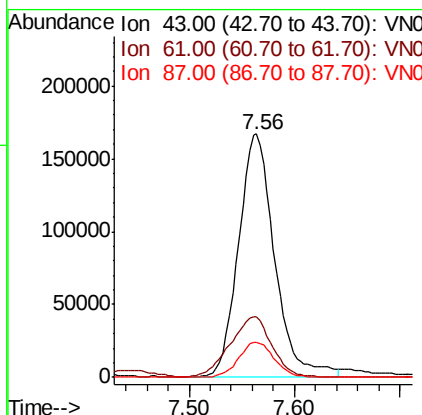
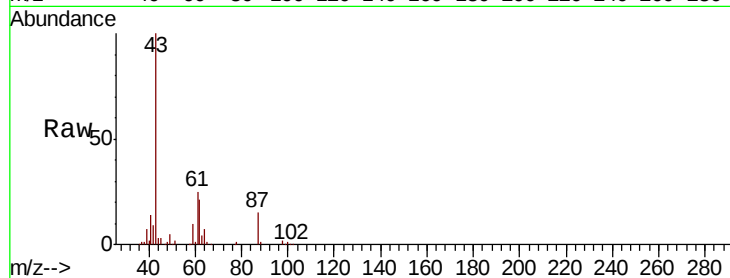
ClientSampleId :

VN0809WBS01

Tot Ion:	43	Resp:	395283
Ion	Ratio	Lower	Upper
43	100		
61	28.8	24.2	36.2
87	14.4	11.8	17.8

Manual Integrations
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#44

Trichloroethene

Concen: 19.568 ug/l

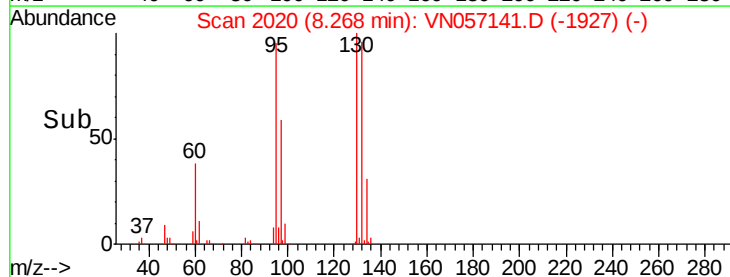
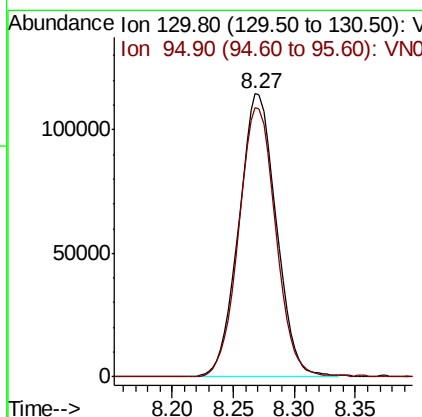
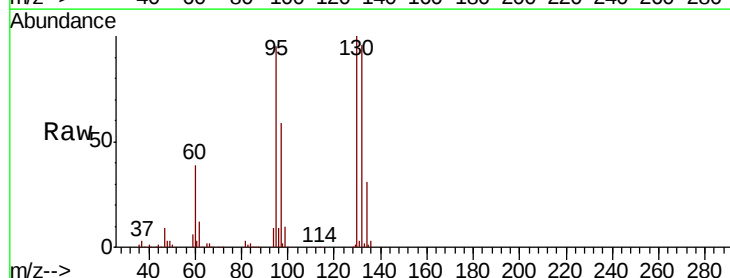
RT: 8.27 min Scan# 2020

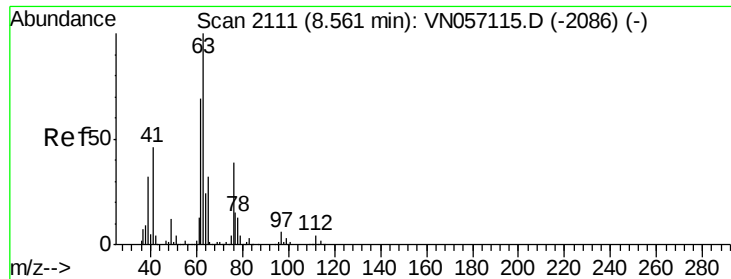
Delta R.T. -0.00 min

Lab File: VN057141.D

Acq: 9 Aug 2019 13:00

Tgt Ion:	130	Resp:	242396
Ion	Ratio	Lower	Upper
130	100		
95	95.3	0.0	187.4





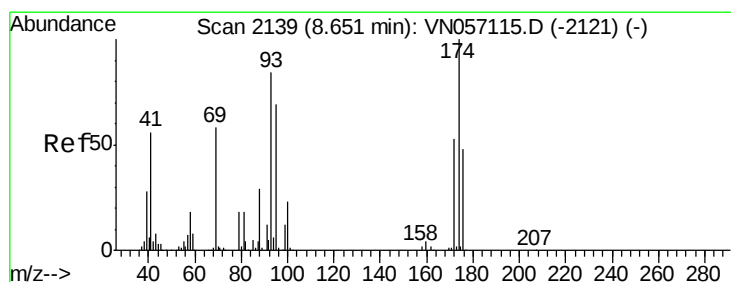
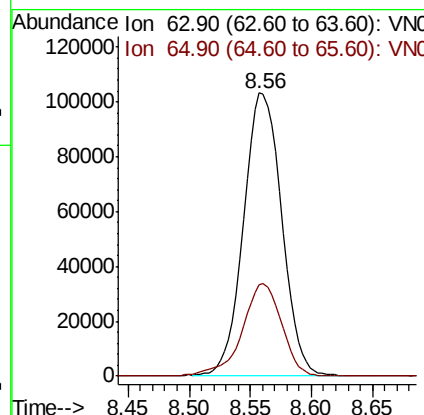
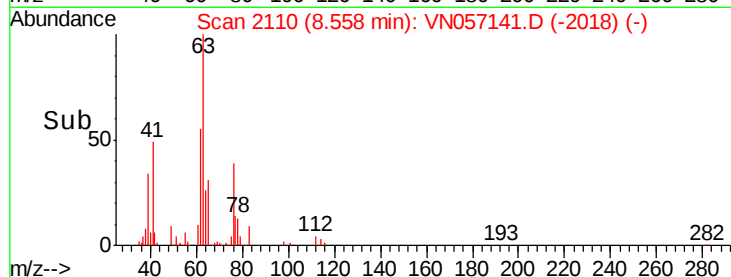
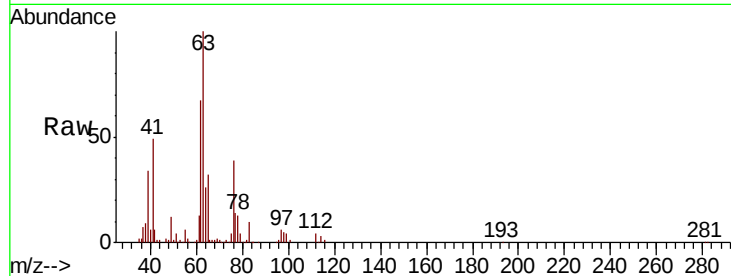
#45
 1,2-Dichloropropane
 Concen: 19.329 ug/l
 RT: 8.56 min Scan# 2110
 Delta R.T. -0.00 min
 Lab File: VN057141.D
 Acq: 9 Aug 2019 13:00

Instrument :
 MSVOA_N
 ClientSampleId :
 VN0809WBS01

Tot Ion: 63 Resp: 221290
 Ion Ratio Lower Upper
 63 100
 65 32.2 25.2 37.8

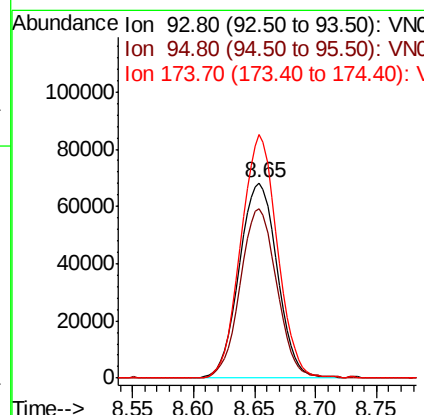
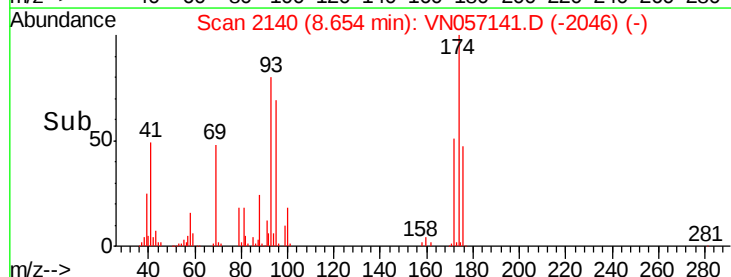
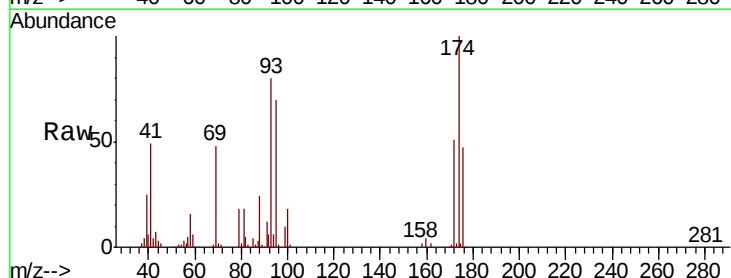
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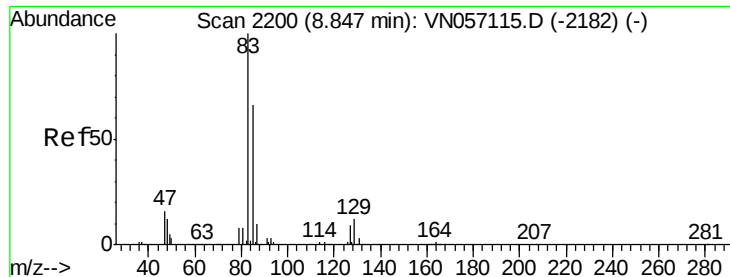
MMDadoda
 8/12/2019 3:34:40 PM



#46
 Dibromomethane
 Concen: 20.080 ug/l
 RT: 8.65 min Scan# 2140
 Delta R.T. 0.00 min
 Lab File: VN057141.D
 Acq: 9 Aug 2019 13:00

Tgt Ion: 93 Resp: 147401
 Ion Ratio Lower Upper
 93 100
 95 83.4 66.0 99.0
 174 119.2 96.0 144.0





#47

Bromodichloromethane

Concen: 19.984 ug/l

RT: 8.85 min Scan# 2201

Delta R.T. 0.00 min

Lab File: VN057141.D

Acq: 9 Aug 2019 13:00

Instrument :

MSVOA_N

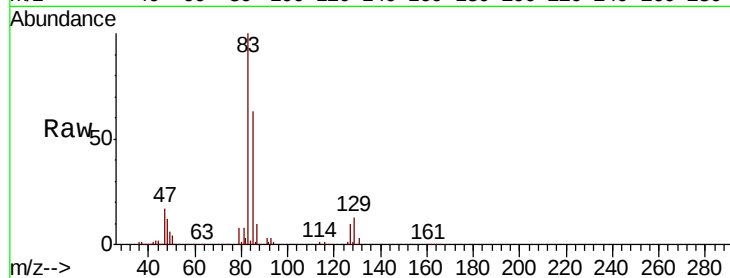
ClientSampleId :

VN0809WBS01

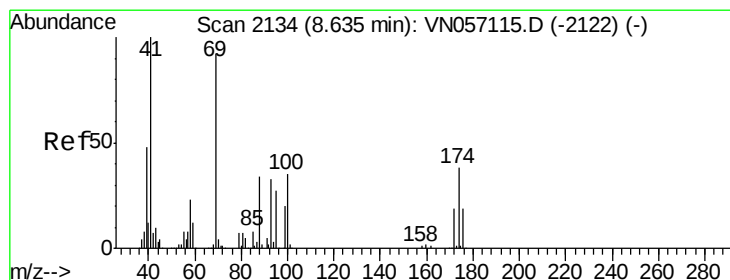
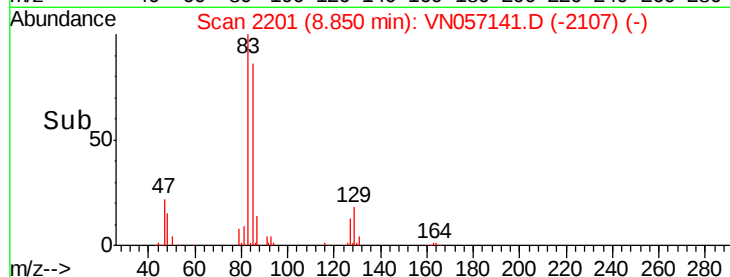
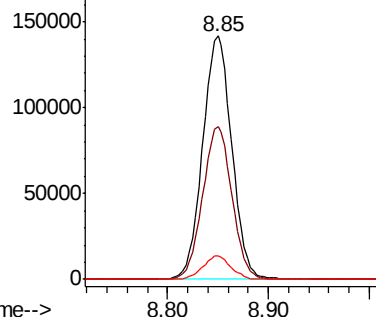
Tot Ion:	83	Resp:	283841
Ion Ratio	Lower	Upper	
83	100		
85	62.8	52.6	78.8
127	9.8	7.5	11.3

Manual Integrations
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Abundance Ion 82.90 (82.60 to 83.60): VNC
Ion 84.90 (84.60 to 85.60): VNC
Ion 126.80 (126.50 to 127.50): VNC



#48

Methyl methacrylate

Concen: 19.145 ug/l

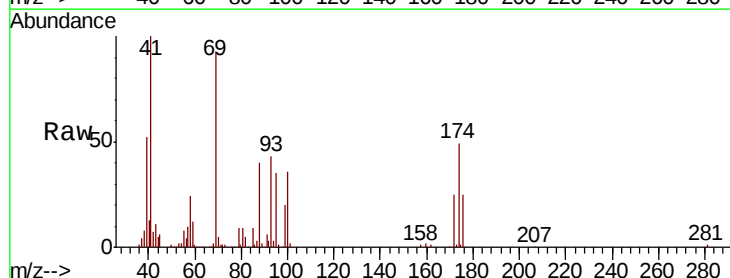
RT: 8.64 min Scan# 2135

Delta R.T. 0.00 min

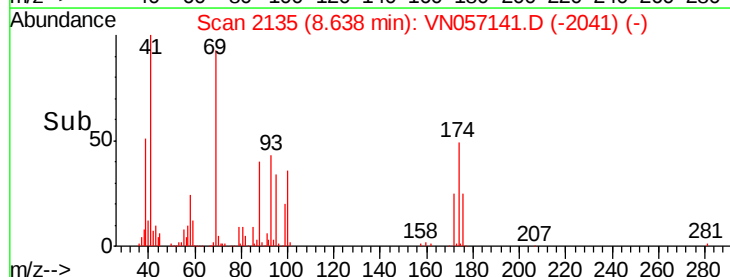
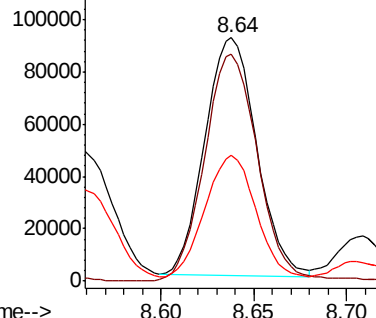
Lab File: VN057141.D

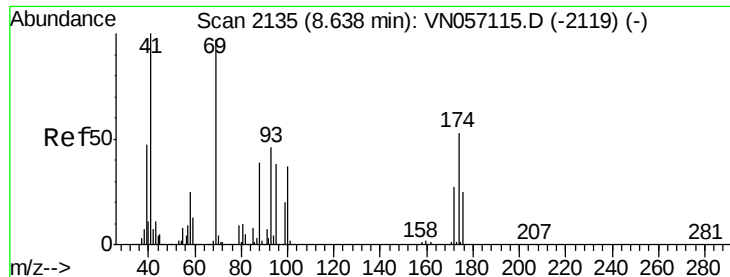
Acq: 9 Aug 2019 13:00

Tgt Ion:	41	Resp:	177376
Ion Ratio	Lower	Upper	
41	100		
69	98.6	77.5	116.3
39	50.4	39.8	59.6



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





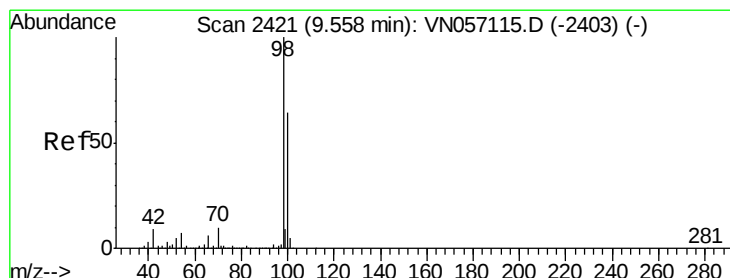
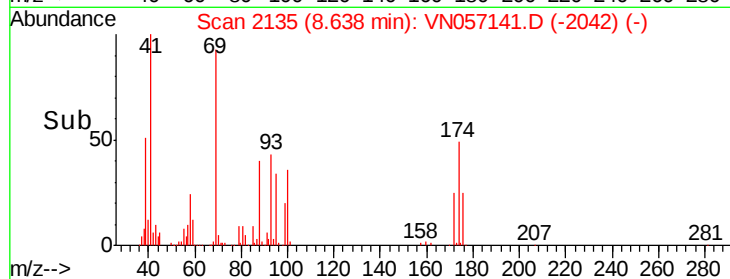
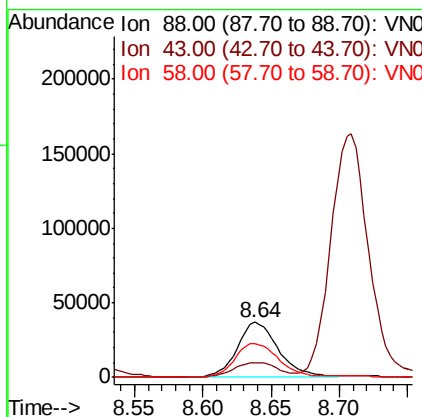
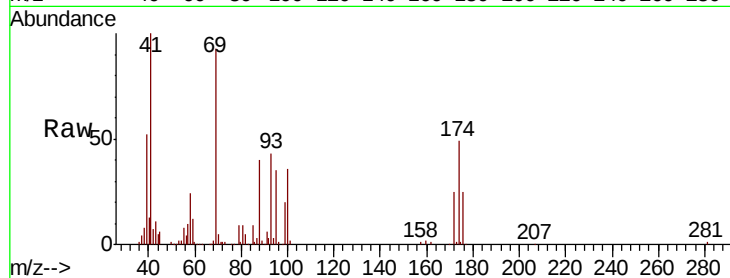
#49
1,4-Dioxane
Concen: 413.139 ug/l
RT: 8.64 min Scan# 2135
Delta R.T. -0.00 min
Lab File: VN057141.D
Acq: 9 Aug 2019 13:00

Instrument :
MSVOA_N
ClientSampleId :
VN0809WBS01

Tot Ion	Ratio	Lower	Upper
88	100		
43	27.9	21.7	32.5
58	65.1	51.1	76.7

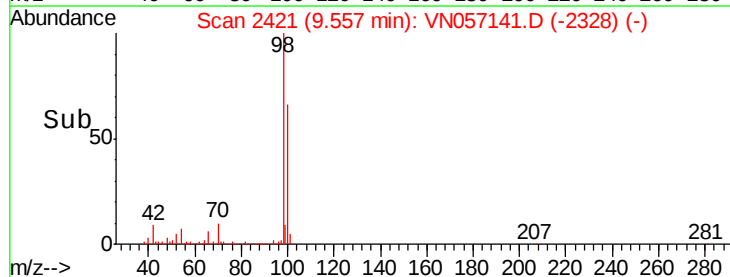
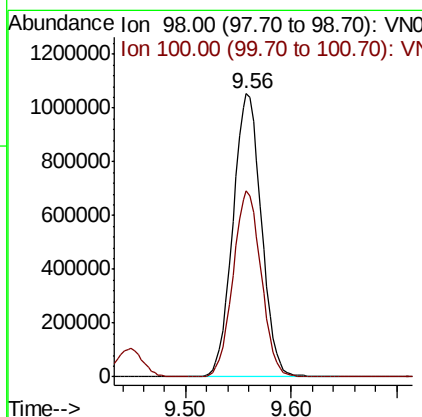
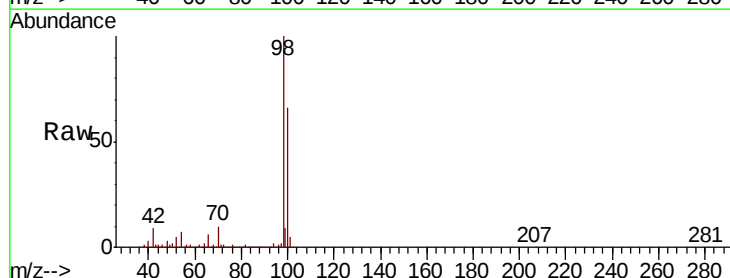
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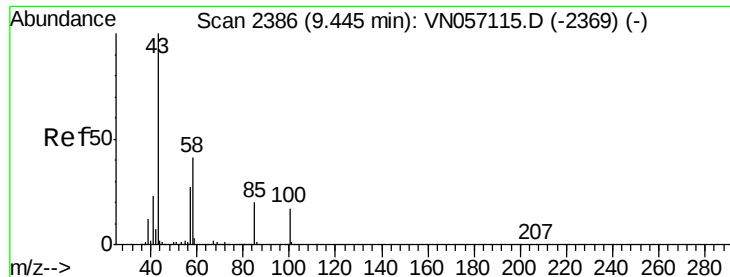
MMDadoda
8/12/2019 3:34:40 PM



#50
Toluene-d8
Concen: 48.293 ug/l
RT: 9.56 min Scan# 2421
Delta R.T. -0.00 min
Lab File: VN057141.D
Acq: 9 Aug 2019 13:00

Tgt Ion	Ratio	Lower	Upper
98	100		
100	65.1	51.2	76.8





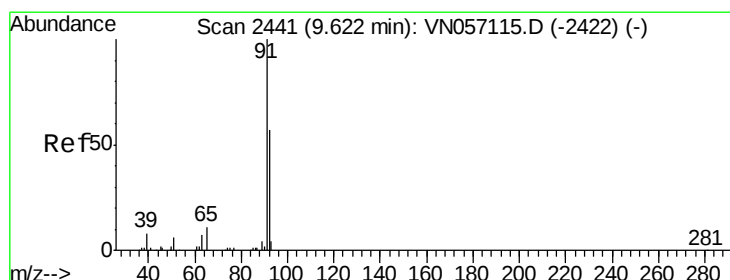
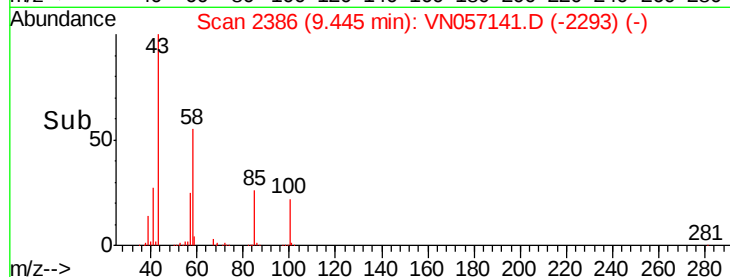
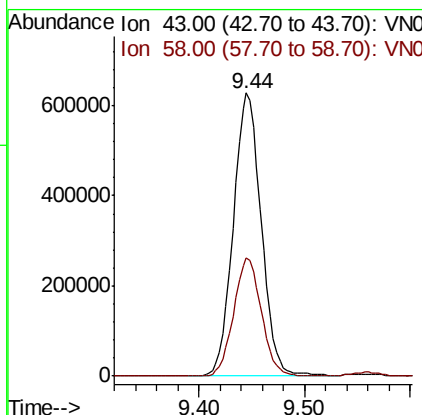
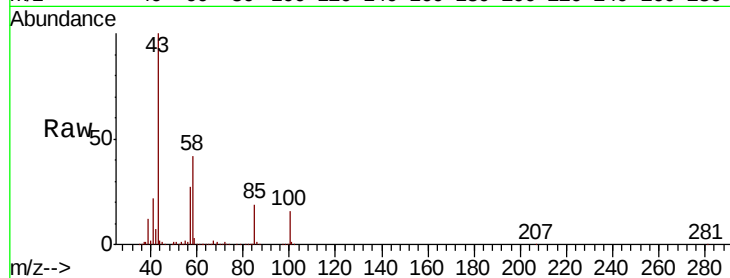
#51
4-Methyl-2-Pentanone
Concen: 100.324 ug/l
RT: 9.44 min Scan# 2386
Delta R.T. -0.00 min
Lab File: VN057141.D
Acq: 9 Aug 2019 13:00

Instrument :
MSVOA_N
ClientSampleId :
VN0809WBS01

Tot Ion: 43 Resp: 1147211
Ion Ratio Lower Upper
43 100
58 41.4 33.2 49.8

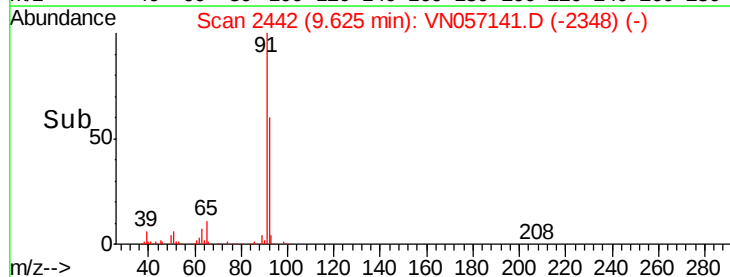
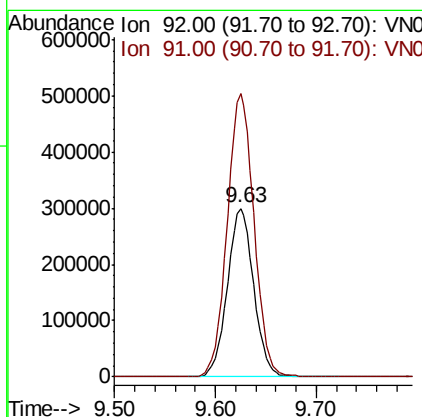
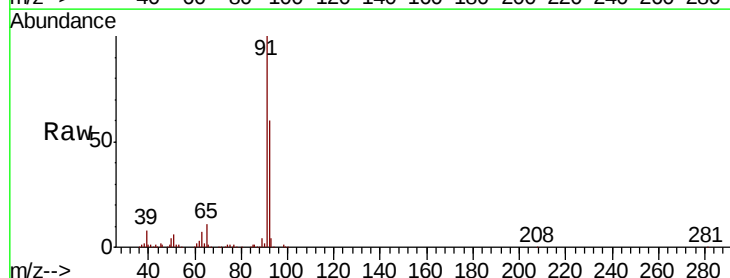
Manual Integrations
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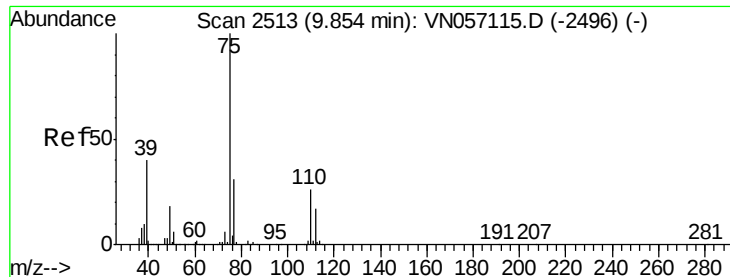
MMDadoda
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#52
Toluene
Concen: 19.902 ug/l
RT: 9.63 min Scan# 2442
Delta R.T. 0.00 min
Lab File: VN057141.D
Acq: 9 Aug 2019 13:00

Tgt Ion: 92 Resp: 546214
Ion Ratio Lower Upper
92 100
91 170.9 139.8 209.8





#53

t-1,3-Dichloropropene

Concen: 20.083 ug/l

RT: 9.86 min Scan# 2514

Delta R.T. 0.00 min

Lab File: VN057141.D

Acq: 9 Aug 2019 13:00

Tot Ion: 75 Resp: 298005

Ion Ratio Lower Upper

75 100

77 31.2 24.8 37.2

Instrument :

MSVOA_N

ClientSampleId :

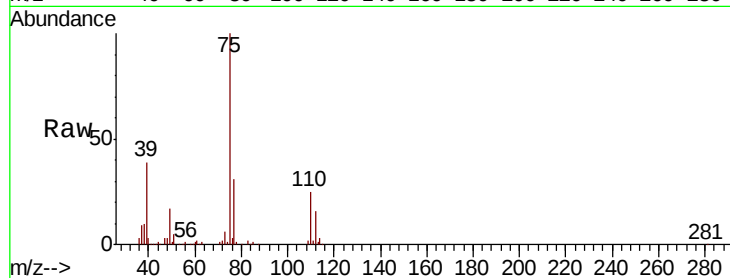
VN0809WBS01

Manual Integrations

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Abundance Ion 74.90 (74.60 to 75.60): VN0

Ion 76.90 (76.60 to 77.60): VN0

9.86

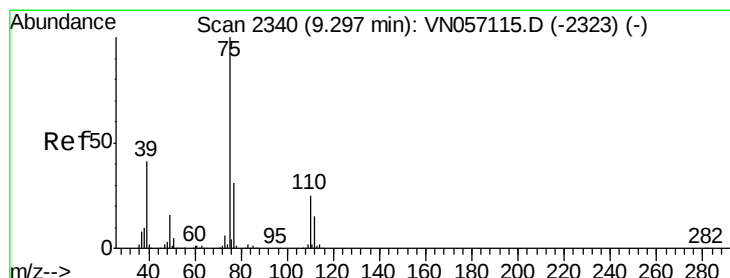
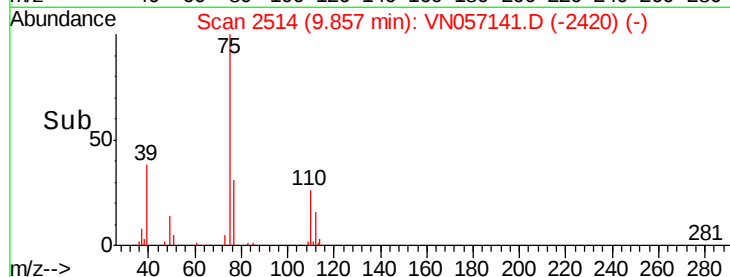
150000

100000

50000

0

Time-->



#54

cis-1,3-Dichloropropene

Concen: 19.824 ug/l

RT: 9.30 min Scan# 2340

Delta R.T. -0.00 min

Lab File: VN057141.D

Acq: 9 Aug 2019 13:00

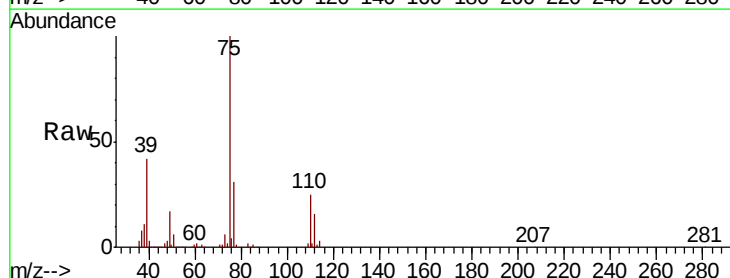
Tgt Ion: 75 Resp: 337538

Ion Ratio Lower Upper

75 100

77 31.3 25.1 37.7

39 42.1 32.5 48.7



Abundance Ion 74.90 (74.60 to 75.60): VN0

Ion 76.90 (76.60 to 77.60): VN0

Ion 39.00 (38.70 to 39.70): VN0

9.30

250000

200000

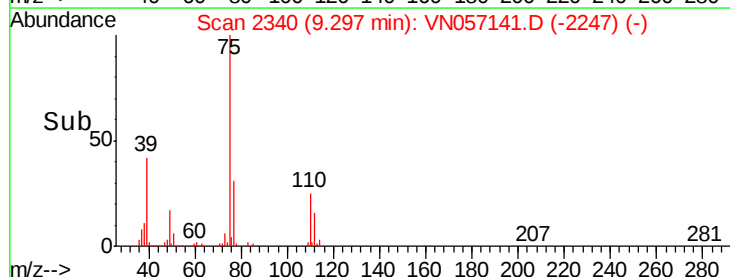
150000

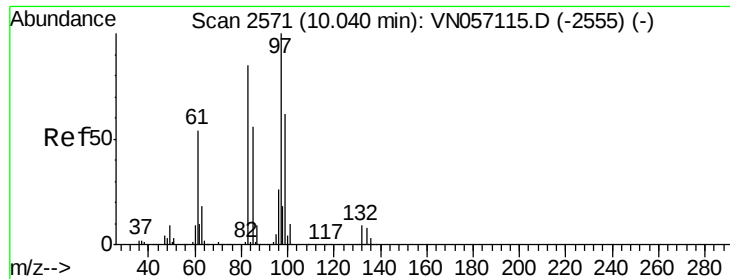
100000

50000

0

Time-->





#55

1,1,2-Trichloroethane

Concen: 19.830 ug/l

RT: 10.04 min Scan# 2571

Delta R.T. -0.00 min

Lab File: VN057141.D

Acq: 9 Aug 2019 13:00

Instrument :

MSVOA_N

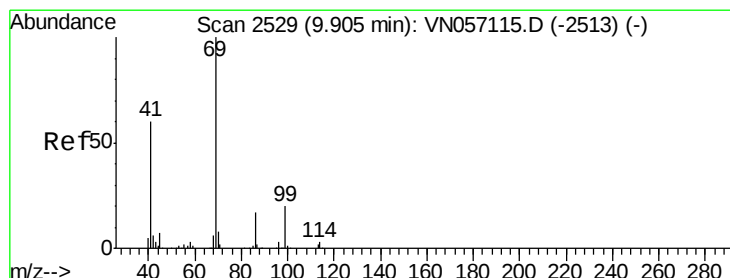
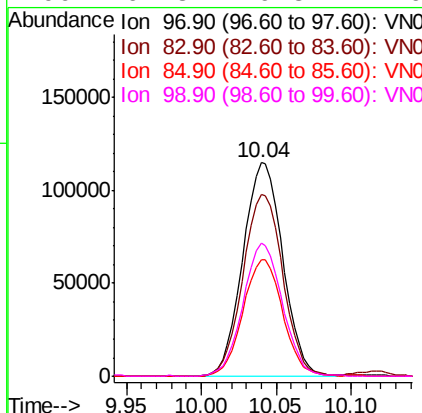
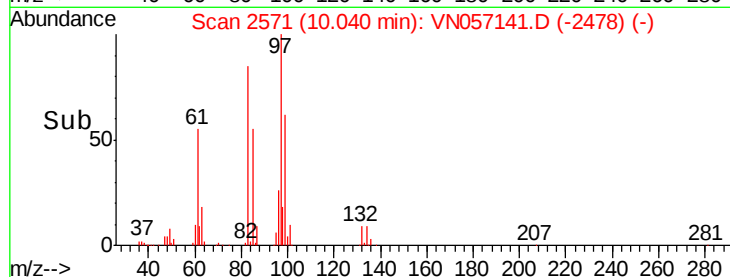
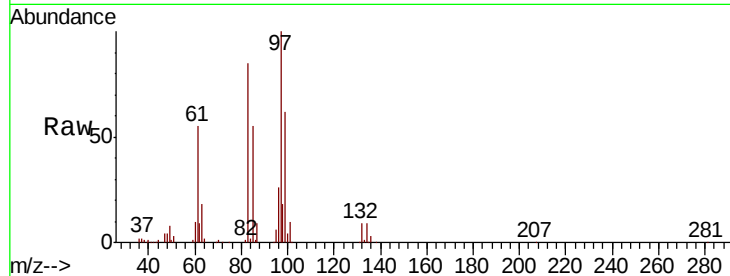
ClientSampleId :

VN0809WBS01

Tot Ion:	97	Resp:	214021
Ion	Ratio	Lower	Upper
97	100		
83	84.9	67.8	101.8
85	54.6	44.4	66.6
99	62.3	49.8	74.6

Manual Integrations
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#56

Ethyl methacrylate

Concen: 19.433 ug/l

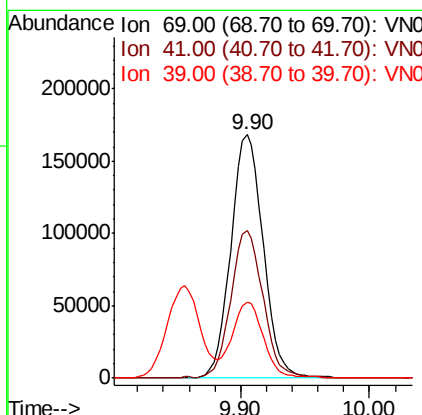
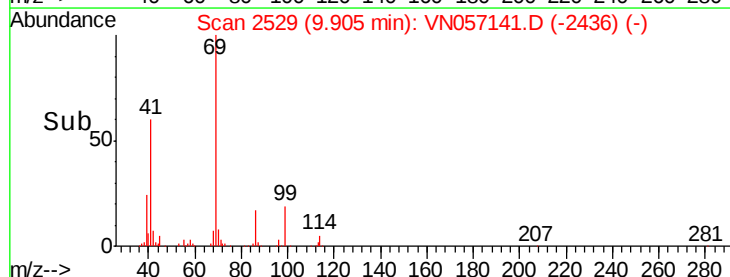
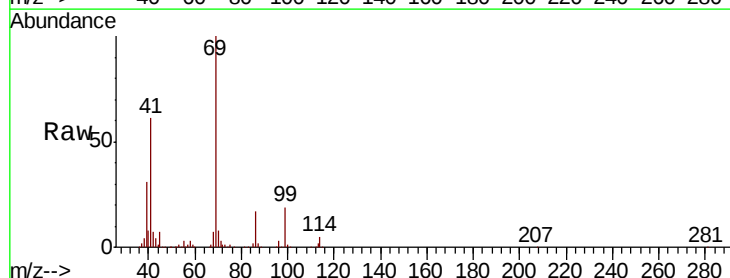
RT: 9.90 min Scan# 2529

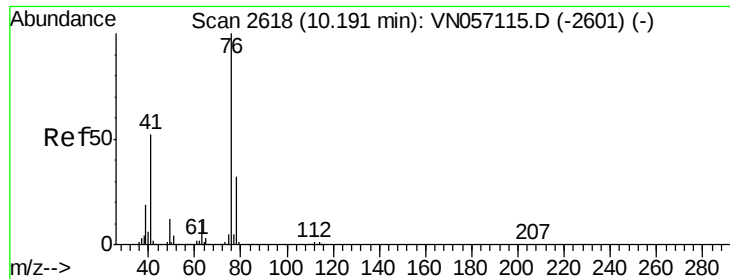
Delta R.T. -0.00 min

Lab File: VN057141.D

Acq: 9 Aug 2019 13:00

Tgt Ion:	69	Resp:	293660
Ion	Ratio	Lower	Upper
69	100		
41	59.6	48.1	72.1
39	30.1	23.6	35.4





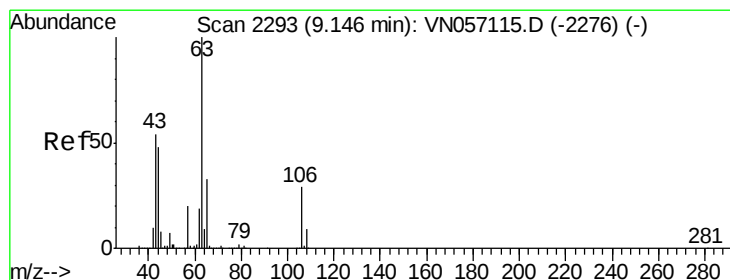
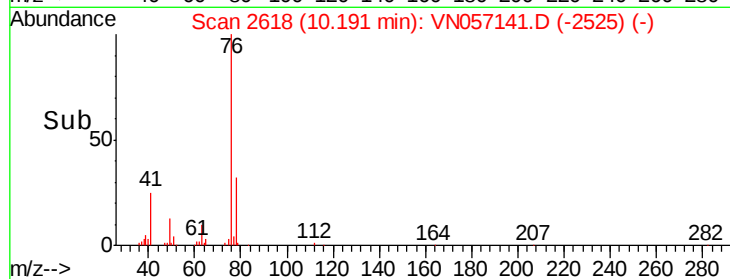
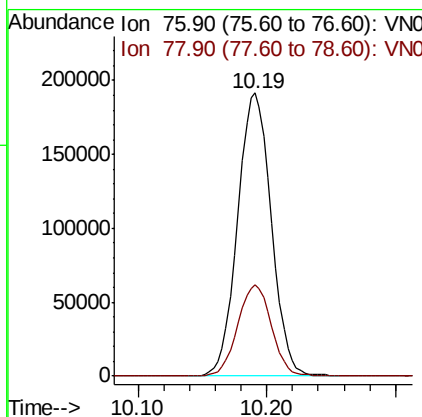
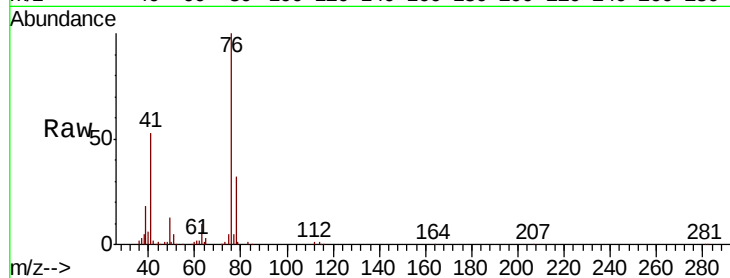
#57
 1,3-Dichloropropane
 Concen: 19.521 ug/l
 RT: 10.19 min Scan# 2618
 Delta R.T. -0.00 min
 Lab File: VN057141.D
 Acq: 9 Aug 2019 13:00

Instrument :
 MSVOA_N
 ClientSampleId :
 VN0809WBS01

Tot Ion	Ratio	Lower	Upper
76	100		
78	32.4	25.9	38.9

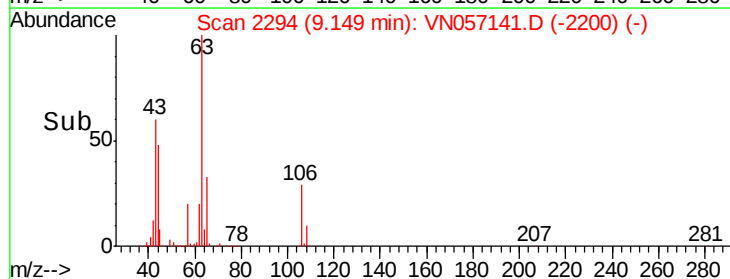
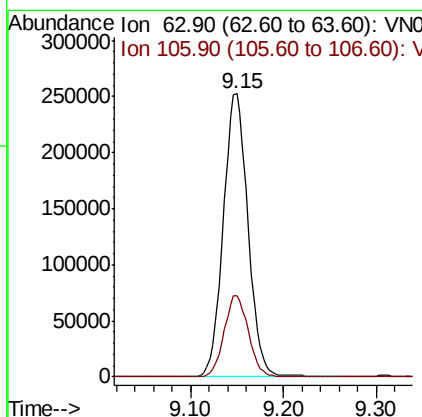
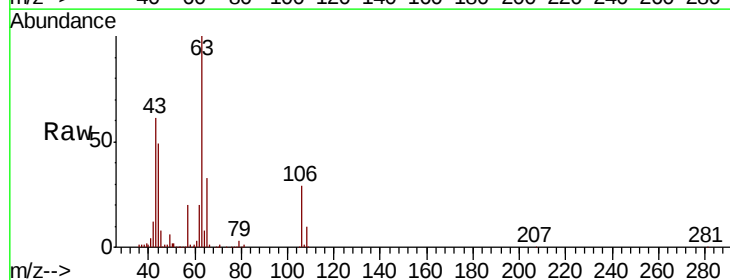
Manual Integrations
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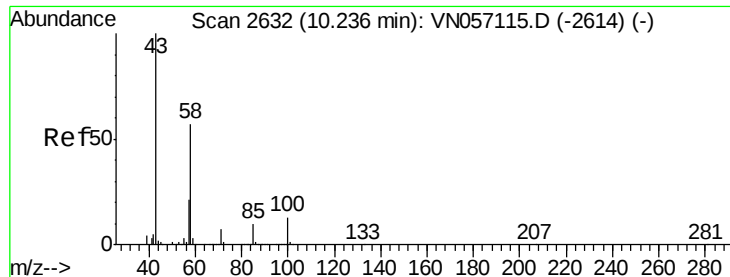
MMDadoda
 8/12/2019 3:34:40 PM



#58
 2-Chloroethyl Vinyl ether
 Concen: 86.501 ug/l
 RT: 9.15 min Scan# 2294
 Delta R.T. 0.00 min
 Lab File: VN057141.D
 Acq: 9 Aug 2019 13:00

Tgt Ion	Ratio	Lower	Upper
63	100		
106	28.1	22.6	33.8





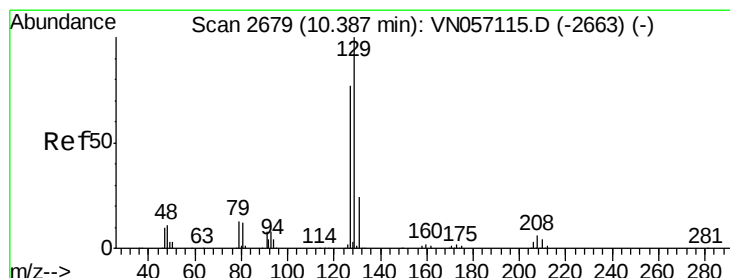
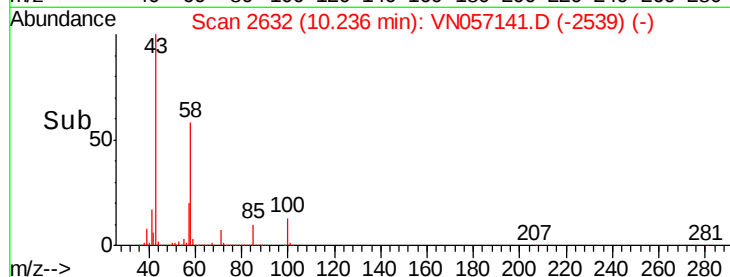
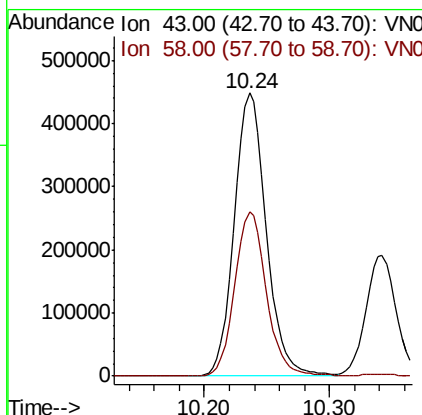
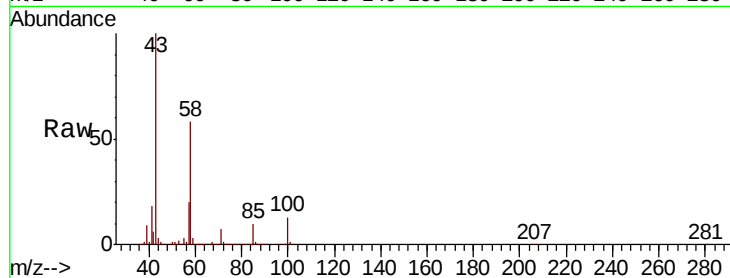
#59
2-Hexanone
Concen: 102.597 ug/l
RT: 10.24 min Scan# 2632
Delta R.T. -0.00 min
Lab File: VN057141.D
Acq: 9 Aug 2019 13:00

Instrument :
MSVOA_N
ClientSampleId :
VN0809WBS01

Tot Ion: 43 Resp: 794010
Ion Ratio Lower Upper
43 100
58 57.8 29.2 87.6

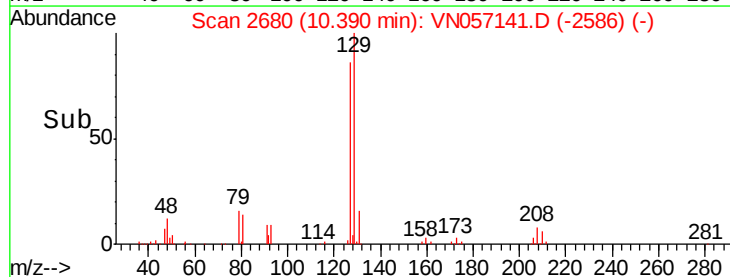
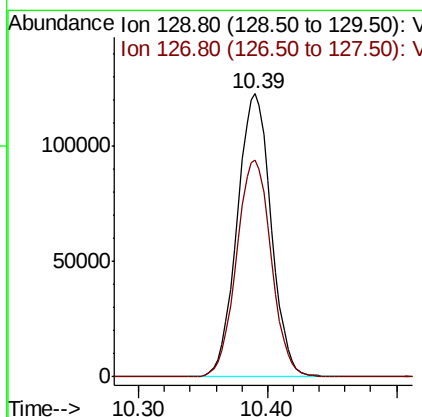
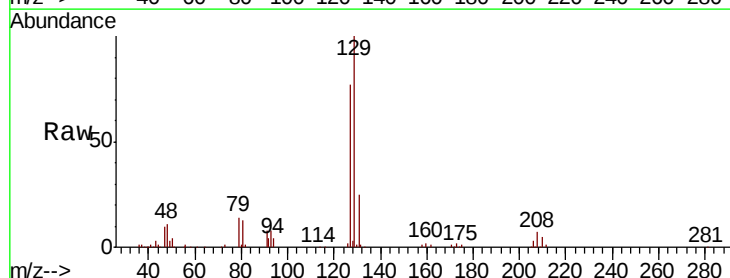
Manual Integrations
APPROVED

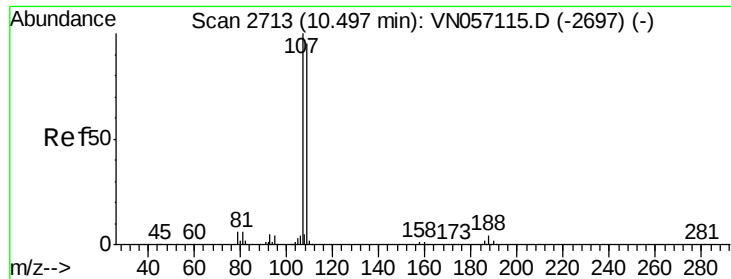
MMDadoda
8/12/2019 3:34:40 PM



#60
Dibromochloromethane
Concen: 19.832 ug/l
RT: 10.39 min Scan# 2680
Delta R.T. 0.00 min
Lab File: VN057141.D
Acq: 9 Aug 2019 13:00

Tgt Ion: 129 Resp: 224798
Ion Ratio Lower Upper
129 100
127 78.2 38.6 116.0





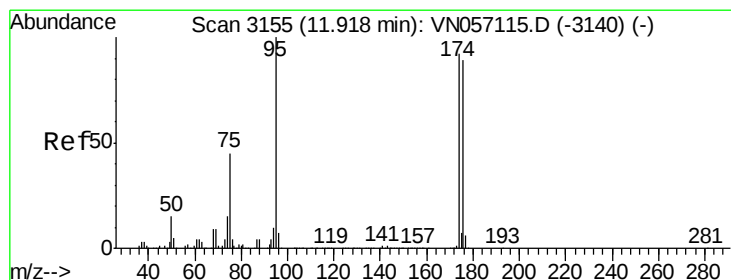
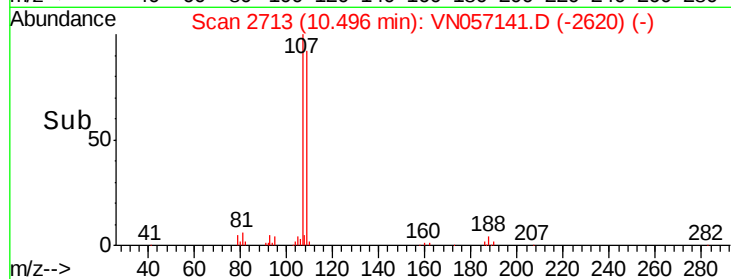
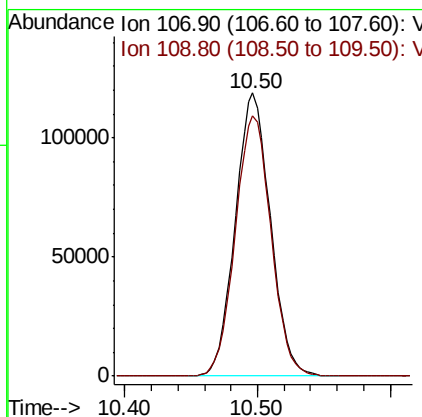
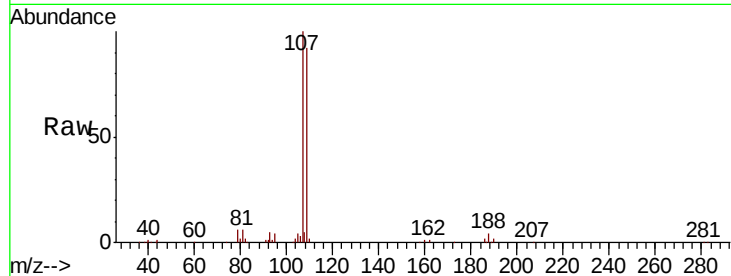
#61
 1,2-Dibromoethane
 Concen: 19.580 ug/l
 RT: 10.50 min Scan# 2713
 Delta R.T. -0.00 min
 Lab File: VN057141.D
 Acq: 9 Aug 2019 13:00

Instrument :
 MSVOA_N
 ClientSampleId :
 VN0809WBS01

Tot Ion	Ratio	Resp	Lower	Upper
107	100	218059		
109	93.8	75.6	113.4	

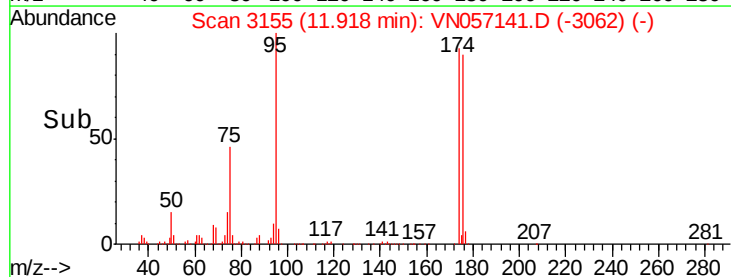
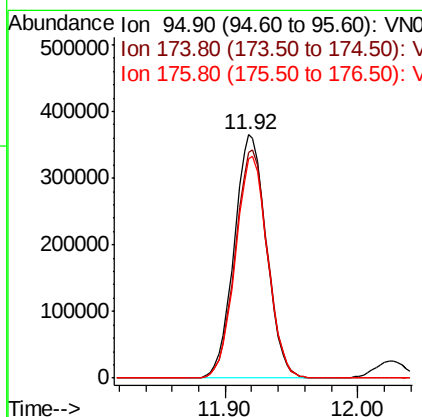
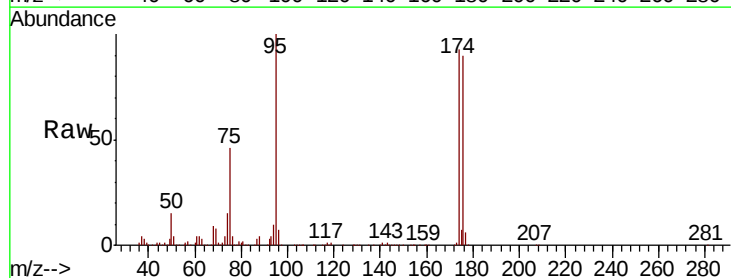
Manual Integrations
 APPROVED

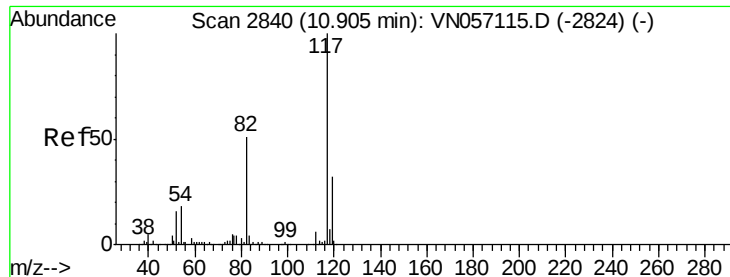
MMDadoda
 8/12/2019 3:34:40 PM



#62
 4-Bromofluorobenzene
 Concen: 46.782 ug/l
 RT: 11.92 min Scan# 3155
 Delta R.T. -0.00 min
 Lab File: VN057141.D
 Acq: 9 Aug 2019 13:00

Tgt Ion	Ratio	Resp	Lower	Upper
95	100	613879		
174	94.4	0.0	185.0	
176	91.3	0.0	181.2	





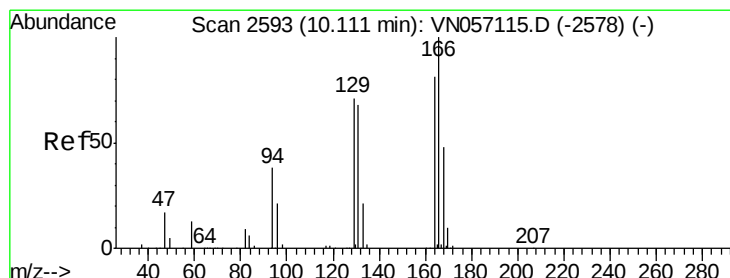
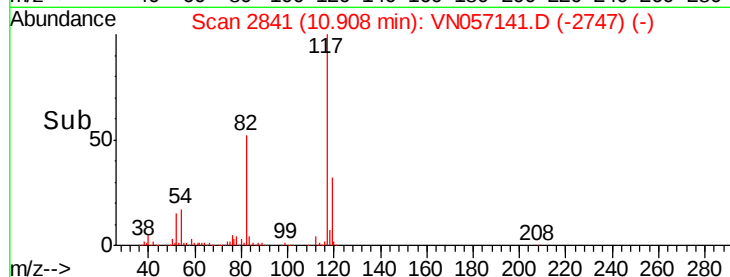
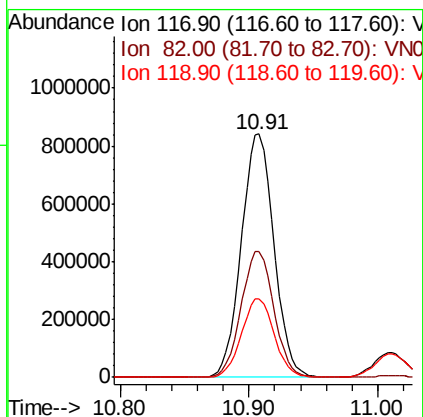
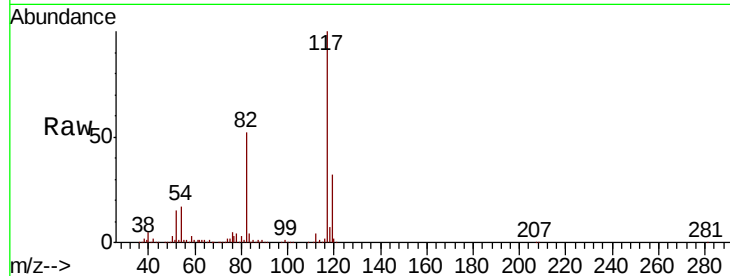
#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 10.91 min Scan# 2841
Delta R.T. 0.00 min
Lab File: VN057141.D
Acq: 9 Aug 2019 13:00

Instrument :
MSVOA_N
ClientSampleId :
VN0809WBS01

Tot Ion:117 Resp: 1485427
Ion Ratio Lower Upper
117 100
82 51.7 40.8 61.2
119 32.3 25.7 38.5

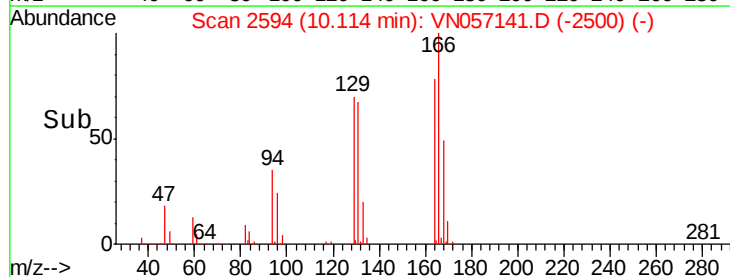
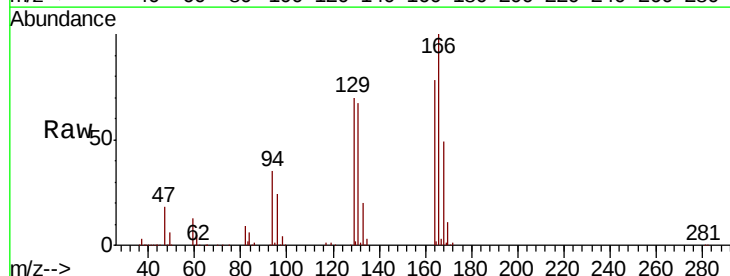
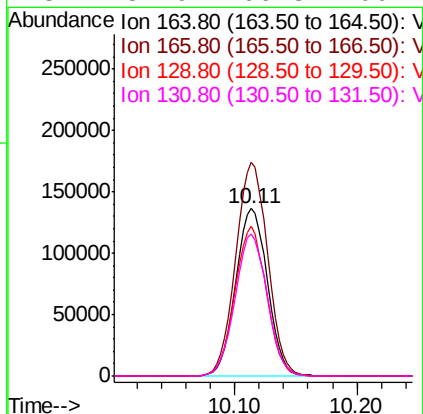
Manual Integrations
APPROVED

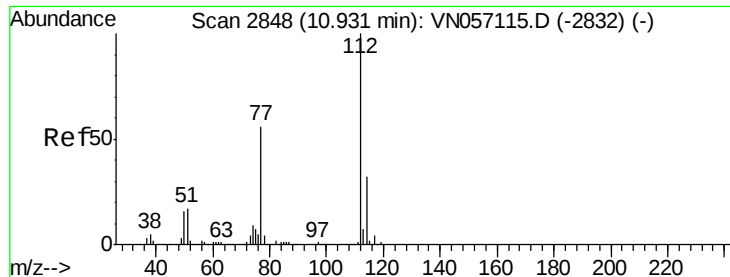
MMDadoda
8/12/2019 3:34:40 PM



#64
Tetrachloroethene
Concen: 19.880 ug/l
RT: 10.11 min Scan# 2594
Delta R.T. 0.00 min
Lab File: VN057141.D
Acq: 9 Aug 2019 13:00

Tgt Ion:164 Resp: 245589
Ion Ratio Lower Upper
164 100
166 127.5 98.3 147.5
129 89.1 69.8 104.6
131 84.9 66.8 100.2





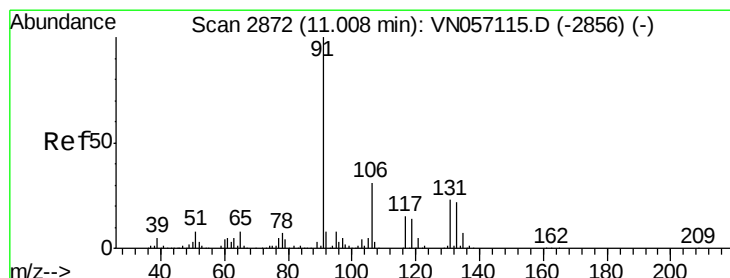
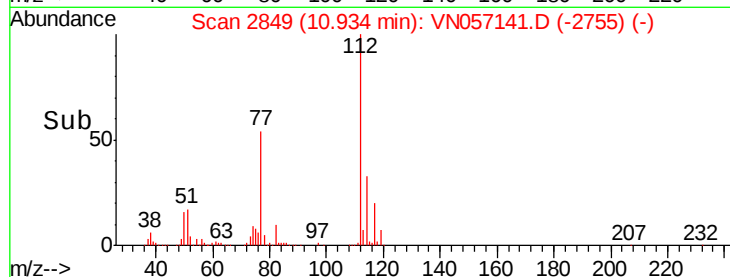
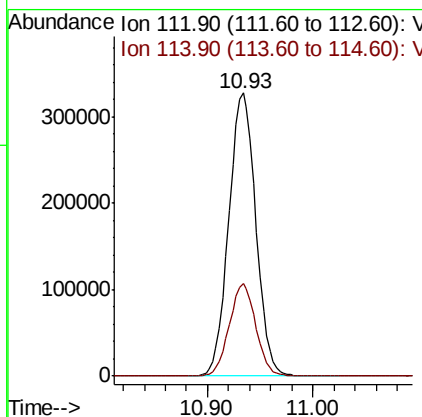
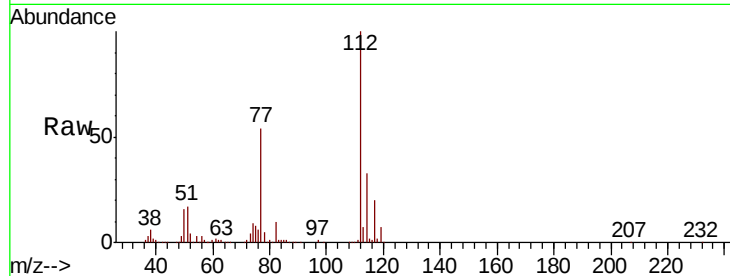
#65
Chlorobenzene
Concen: 19.434 ug/l
RT: 10.93 min Scan# 2849
Delta R.T. 0.00 min
Lab File: VN057141.D
Acq: 9 Aug 2019 13:00

Instrument :
MSVOA_N
ClientSampleId :
VN0809WBS01

Tot Ion	Ratio	Lower	Upper
112	100		
114	32.6	25.4	38.2

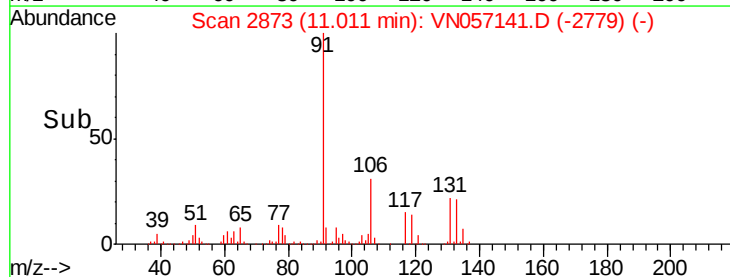
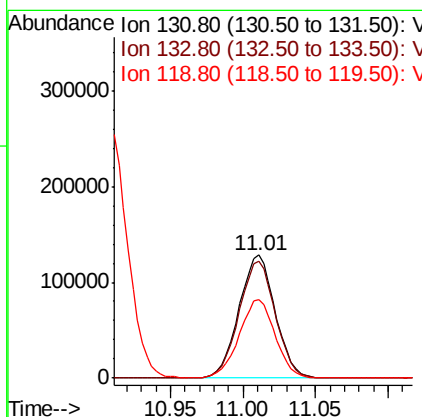
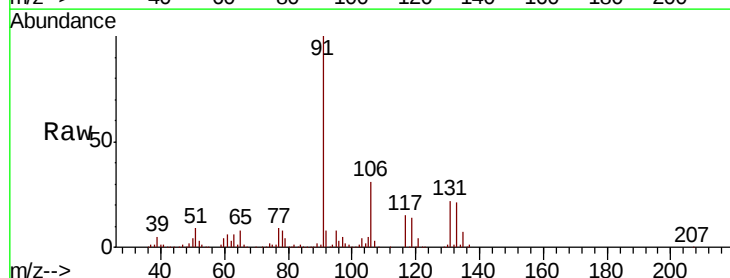
Manual Integrations
APPROVED

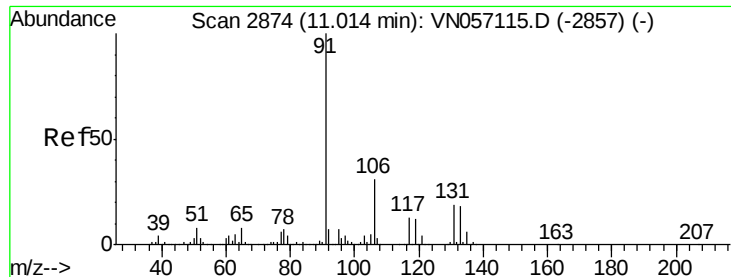
MMDadoda
8/12/2019 3:34:40 PM



#66
1,1,1,2-Tetrachloroethane
Concen: 19.941 ug/l
RT: 11.01 min Scan# 2873
Delta R.T. 0.00 min
Lab File: VN057141.D
Acq: 9 Aug 2019 13:00

Tgt Ion	Ratio	Lower	Upper
131	100		
133	95.1	47.6	142.8
119	63.8	32.6	97.7





#67

Ethyl Benzene

Concen: 19.551 ug/l

RT: 11.01 min Scan# 2874

Delta R.T. -0.00 min

Lab File: VN057141.D

Acq: 9 Aug 2019 13:00

Instrument :

MSVOA_N

ClientSampleId :

VN0809WBS01

Tot Ion: 91 Resp: 1005715

Ion Ratio Lower Upper

91 100

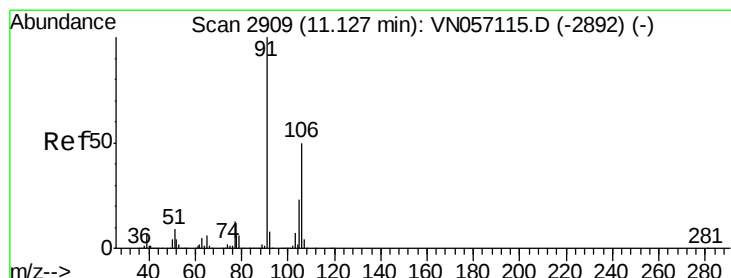
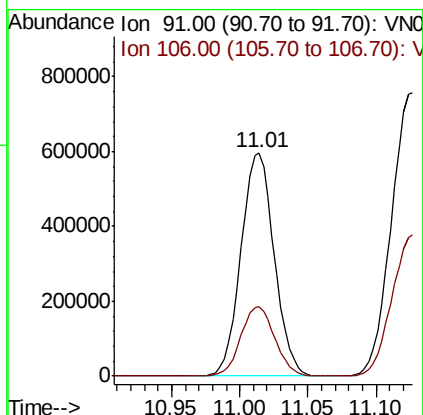
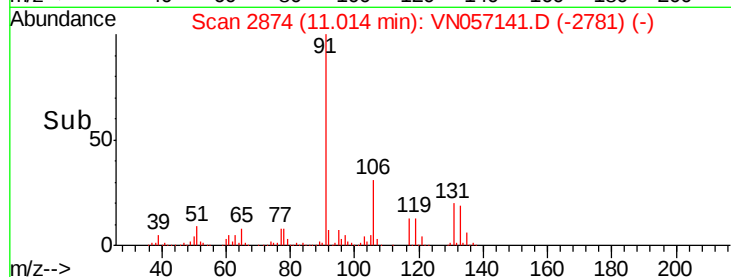
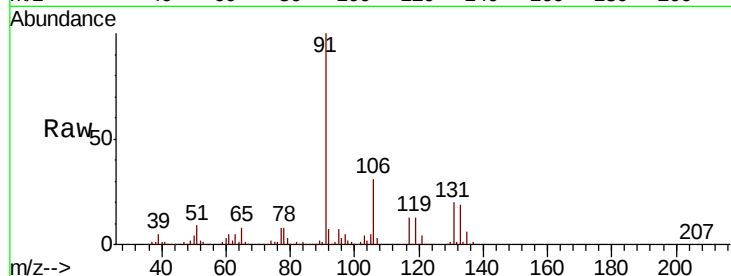
106 31.0 25.0 37.4

Manual Integrations

APPROVED

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8/12/2019 3:34:40 PM



#68

m/p-Xylenes

Concen: 39.405 ug/l

RT: 11.13 min Scan# 2909

Delta R.T. -0.00 min

Lab File: VN057141.D

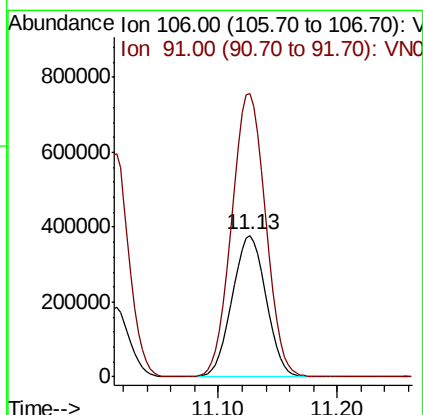
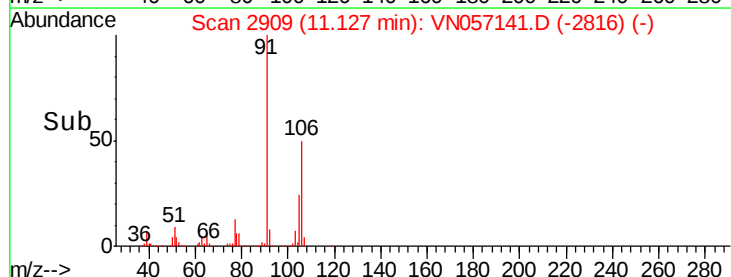
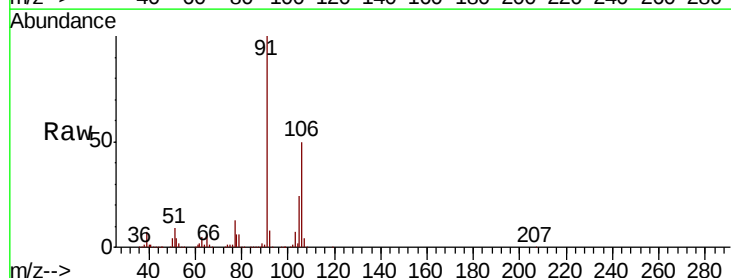
Acq: 9 Aug 2019 13:00

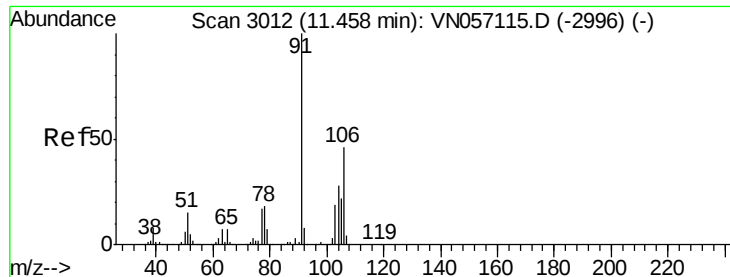
Tgt Ion: 106 Resp: 746750

Ion Ratio Lower Upper

106 100

91 200.2 159.8 239.8





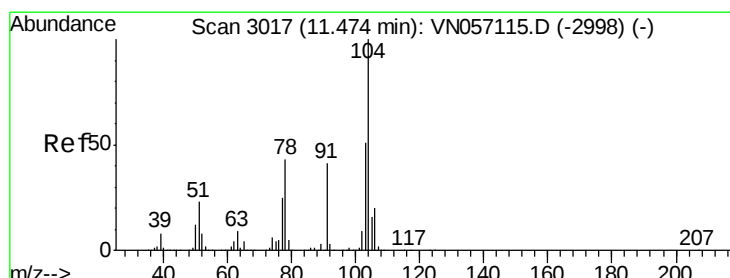
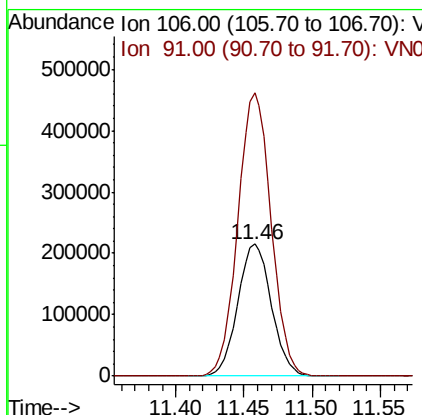
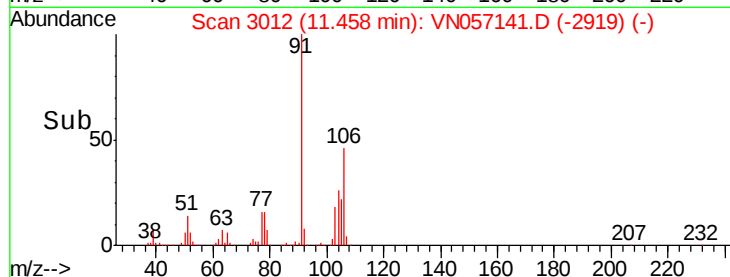
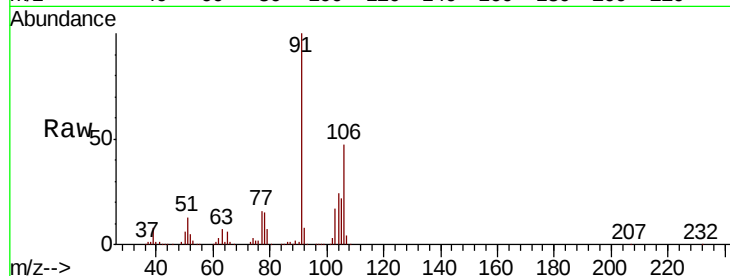
#69
o-Xylene
Concen: 19.552 ug/l
RT: 11.46 min Scan# 3012
Delta R.T. -0.00 min
Lab File: VN057141.D
Acq: 9 Aug 2019 13:00

Instrument :
MSVOA_N
ClientSampled :
VN0809WBS01

Tot Ion	Ion	Ratio	Resp	Lower	Upper
106	100				
91	211.2	106.8	368767	320.5	

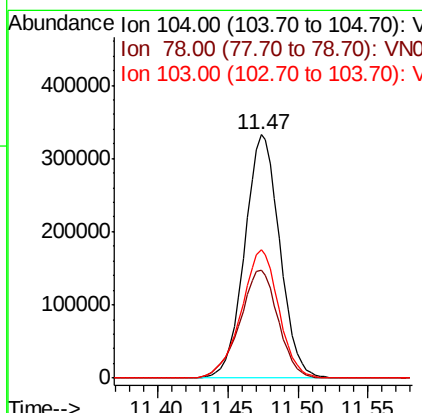
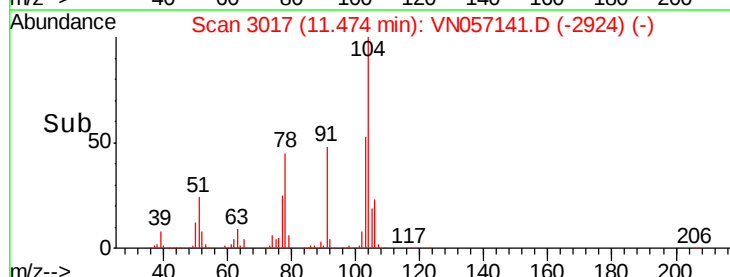
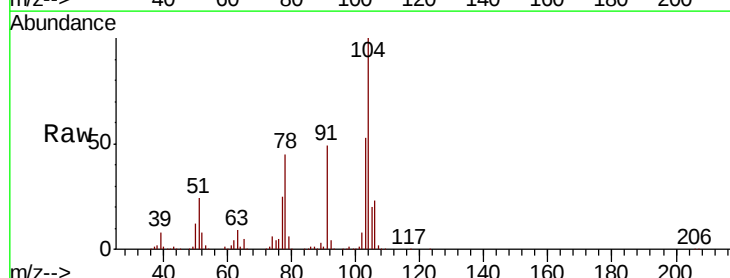
Manual Integrations
APPROVED

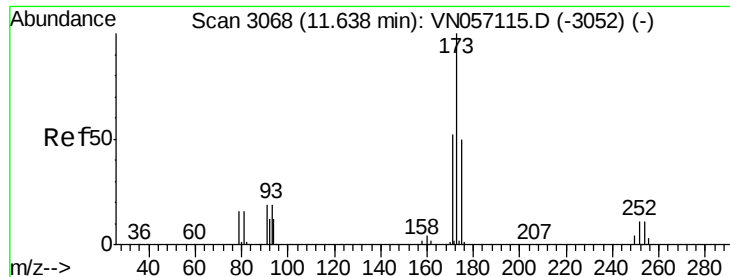
MMDadoda
8/12/2019 3:34:40 PM



#70
Styrene
Concen: 19.651 ug/l
RT: 11.47 min Scan# 3017
Delta R.T. -0.00 min
Lab File: VN057141.D
Acq: 9 Aug 2019 13:00

Tgt Ion	Ion	Ratio	Resp	Lower	Upper
104	100				
78	48.6	38.5	578893	57.7	
103	56.4	44.6		66.8	





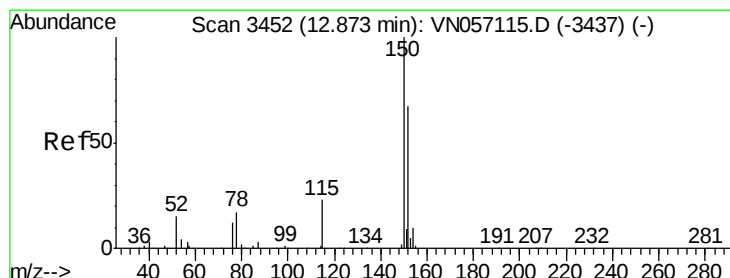
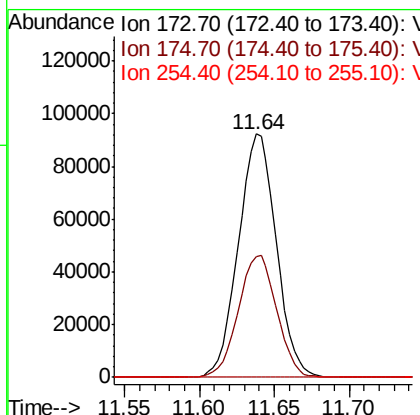
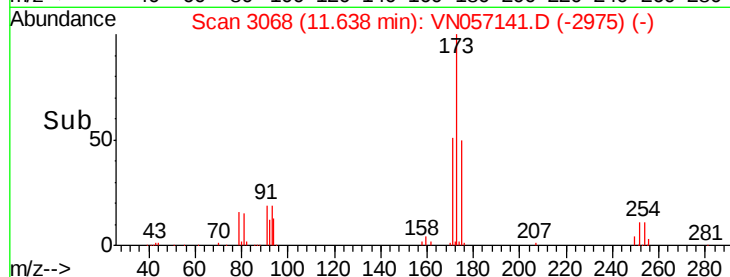
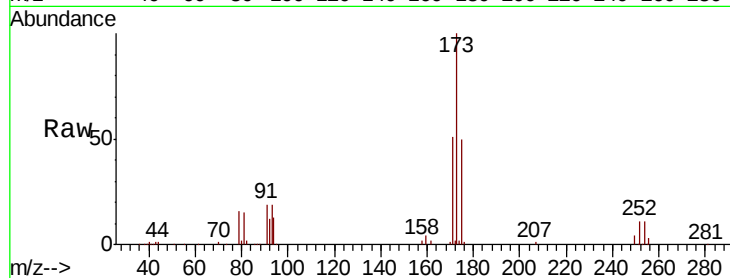
#71
Bromoform
Concen: 19.877 ug/l
RT: 11.64 min Scan# 3068
Delta R.T. -0.00 min
Lab File: VN057141.D
Acq: 9 Aug 2019 13:00

Instrument :
MSVOA_N
ClientSampleId :
VN0809WBS01

Tot Ion	Ratio	Lower	Upper
173	100		
175	50.6	24.6	73.8
254	0.2	0.1	0.1#

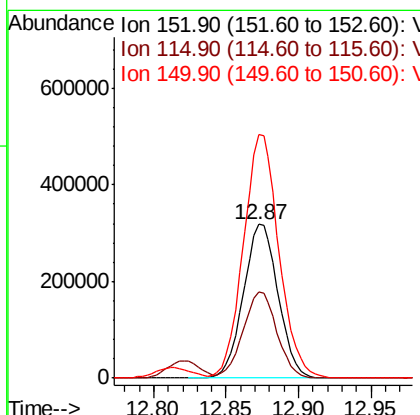
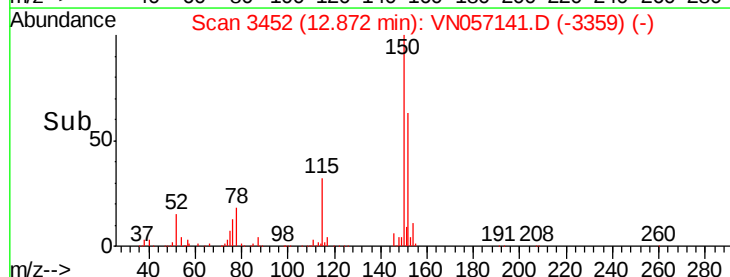
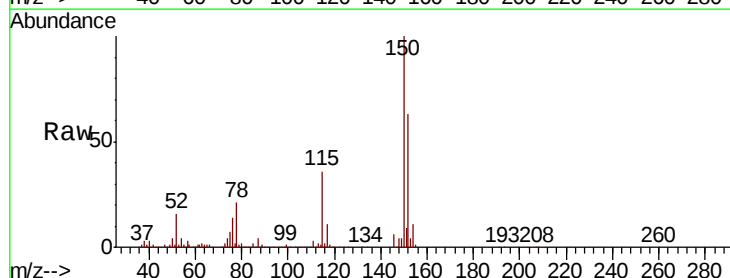
Manual Integrations
APPROVED

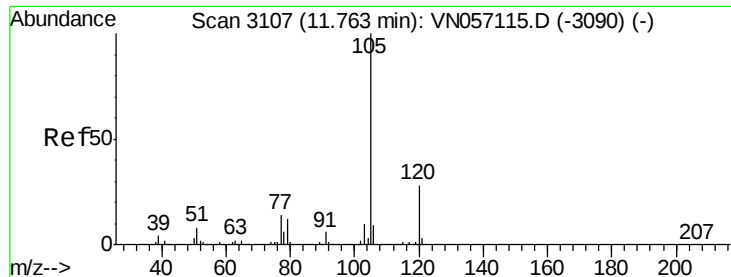
MMDadoda
8/12/2019 3:34:40 PM



#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 12.87 min Scan# 3452
Delta R.T. -0.00 min
Lab File: VN057141.D
Acq: 9 Aug 2019 13:00

Tgt Ion	Ratio	Lower	Upper
152	100		
115	54.6	27.5	82.5
150	161.9	0.0	341.6





#73

Isopropylbenzene

Concen: 21.417 ug/l

RT: 11.76 min Scan# 3107

Delta R.T. 0.00 min

Lab File: VN057141.D

Acq: 9 Aug 2019 13:00

Instrument :

MSVOA_N

ClientSampleId :

VN0809WBS01

Tot Ion:105 Resp: 990103

Ion Ratio Lower Upper

105 100

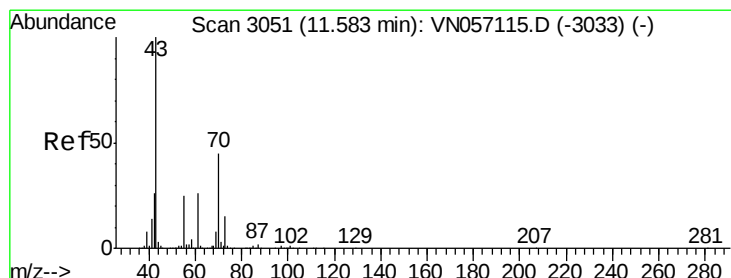
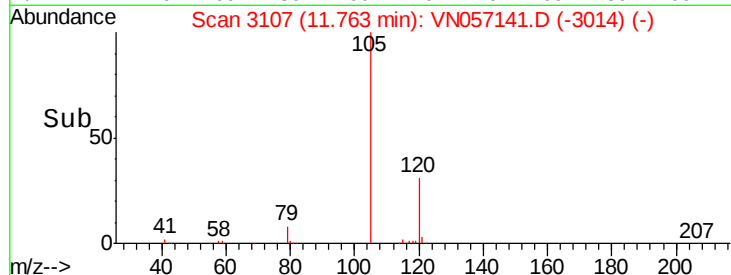
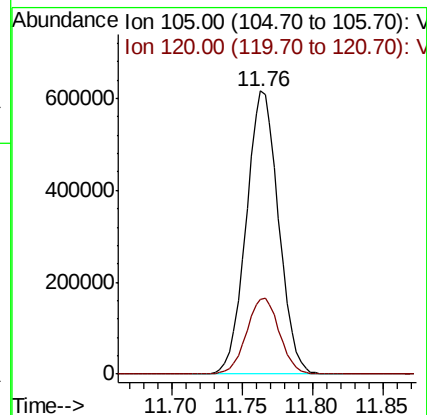
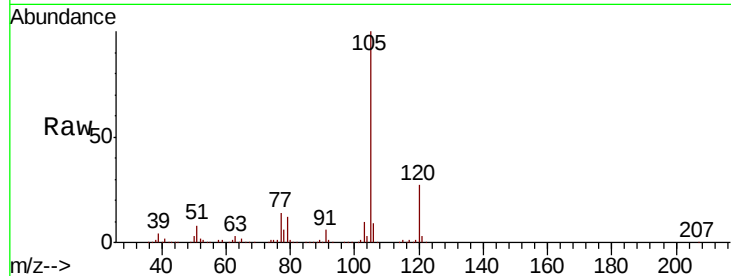
120 27.2 13.7 41.0

Manual Integrations

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MMDadoda

8/12/2019 3:34:40 PM



#74

N-ethyl acetate

Concen: 19.856 ug/l

RT: 11.58 min Scan# 3051

Delta R.T. -0.00 min

Lab File: VN057141.D

Acq: 9 Aug 2019 13:00

Tgt Ion: 43 Resp: 266811

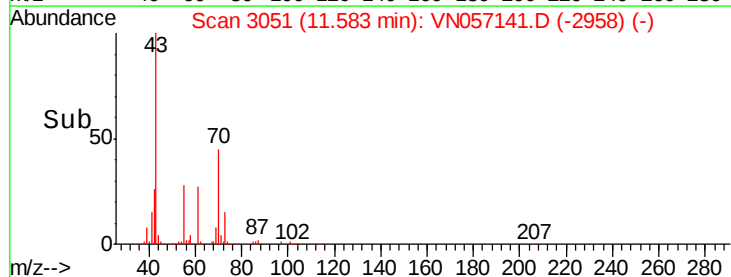
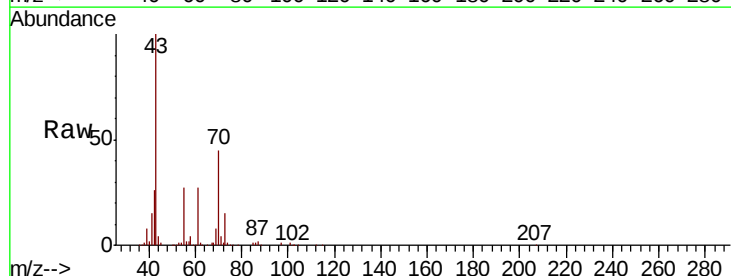
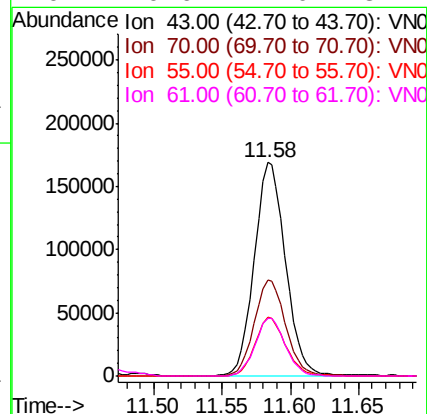
Ion Ratio Lower Upper

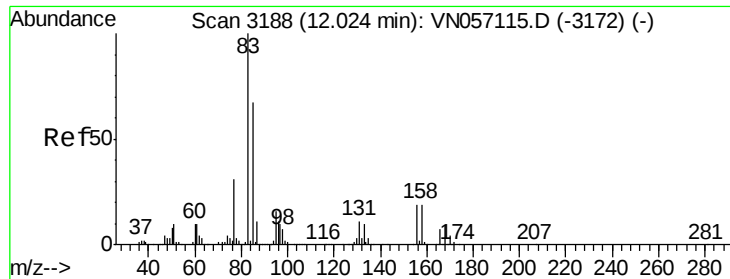
43 100

70 45.6 36.8 55.2

55 27.1 20.6 31.0

61 26.6 21.0 31.4





#75

1,1,2,2-Tetrachloroethane

Concen: 21.950 ug/l

RT: 12.02 min Scan# 3188

Delta R.T. 0.00 min

Lab File: VN057141.D

Acq: 9 Aug 2019 13:00

Instrument :

MSVOA_N

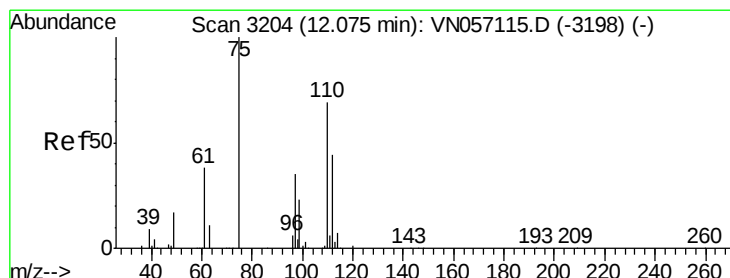
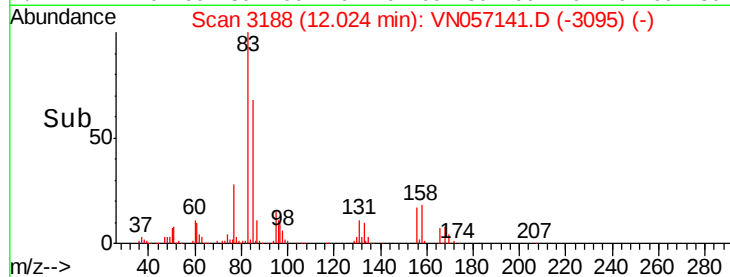
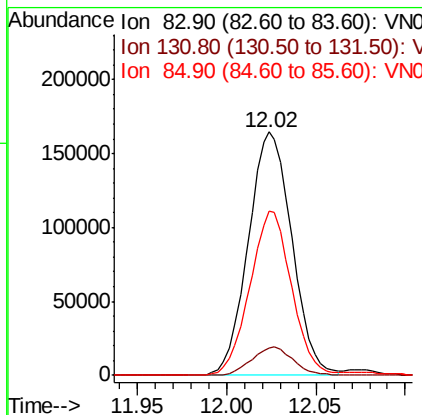
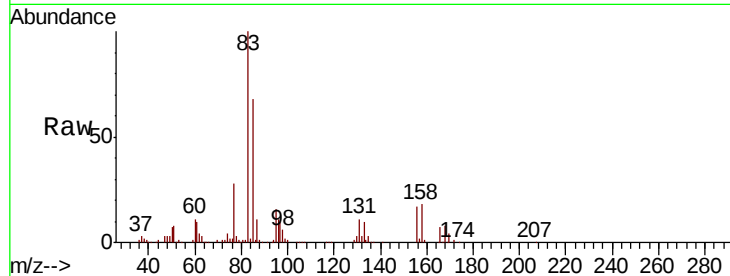
ClientSampleId :

VN0809WBS01

Tot Ion:	83	Resp:	281182
Ion Ratio	Lower	Upper	
83	100		
131	11.2	5.5	16.4
85	64.4	32.4	97.0

Manual Integrations
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MMDadoda
8/12/2019 3:34:40 PM



#76

1,2,3-Trichloropropane

Concen: 22.158 ug/l m

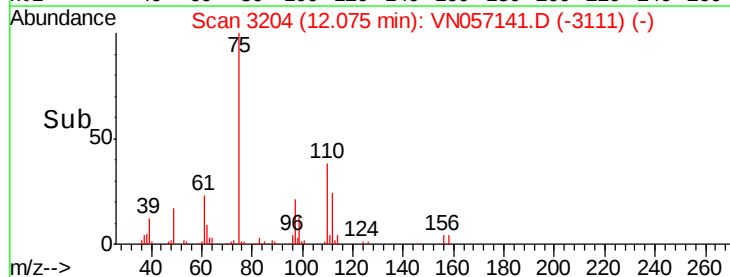
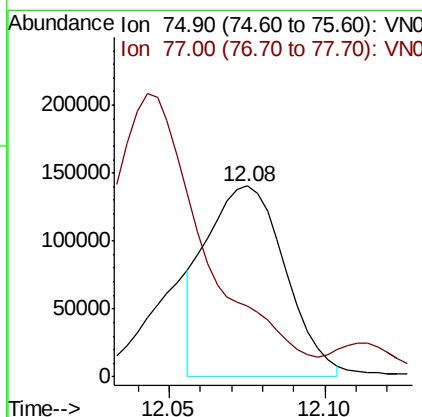
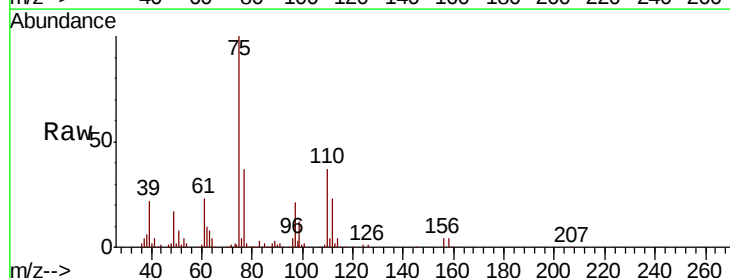
RT: 12.08 min Scan# 3204

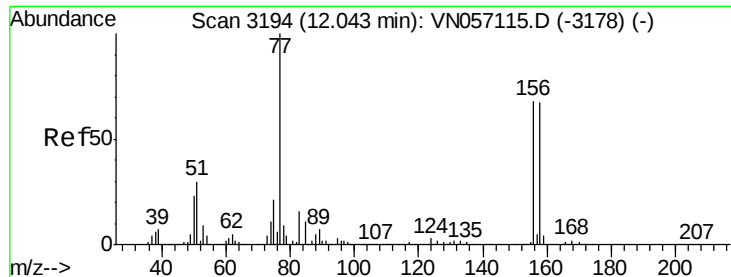
Delta R.T. 0.00 min

Lab File: VN057141.D

Acq: 9 Aug 2019 13:00

Tgt Ion:	75	Resp:	246417
Ion Ratio	Lower	Upper	
75	100		
77	0.0	0.0	0.0





#77

Bromobenzene

Concen: 19.722 ug/l

RT: 12.04 min Scan# 3194

Delta R.T. -0.00 min

Lab File: VN057141.D

Acq: 9 Aug 2019 13:00

Instrument :

MSVOA_N

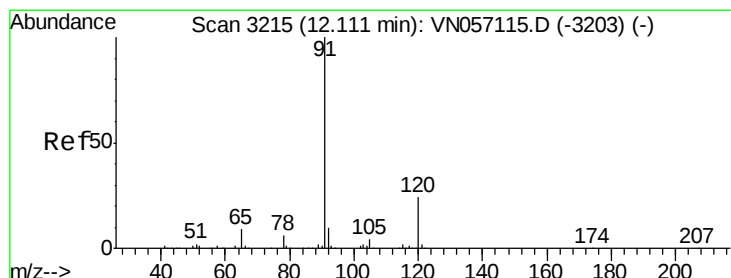
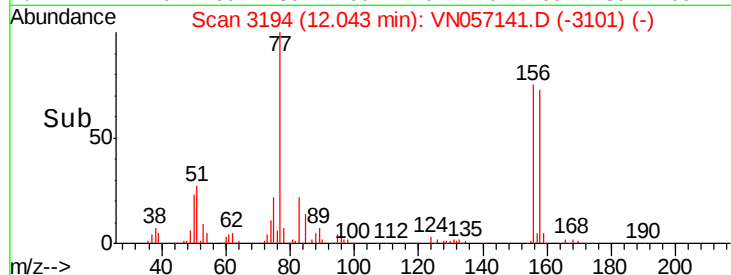
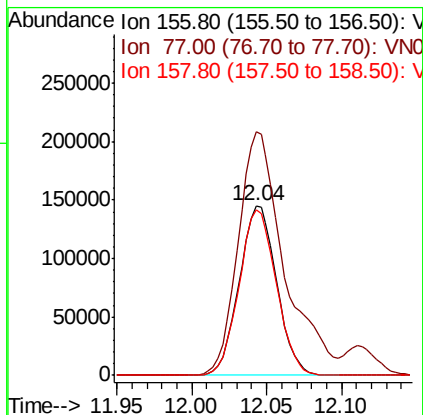
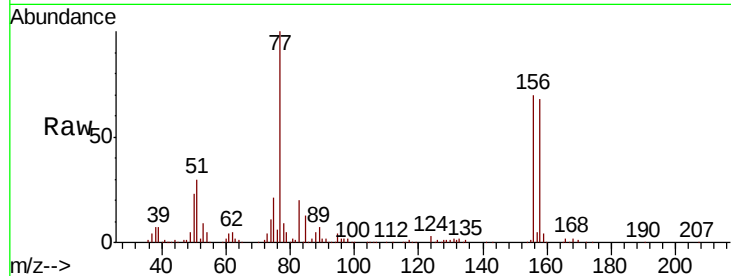
ClientSampleId :

VN0809WBS01

Tot Ion	Ion	Ratio	Resp	Lower	Upper
156	100		251356		
77	177.7	88.7	266.1		
158	97.6	49.3	147.8		

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#78

n-propylbenzene

Concen: 19.550 ug/l

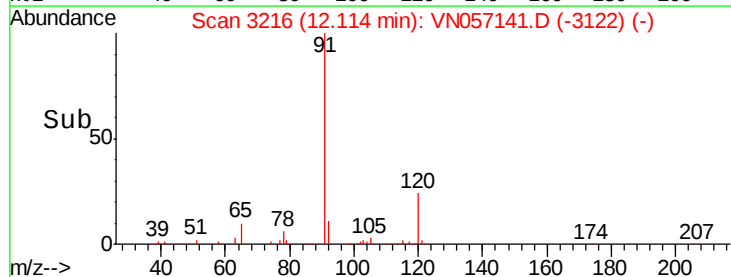
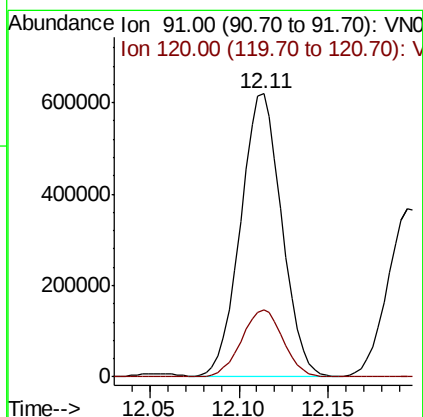
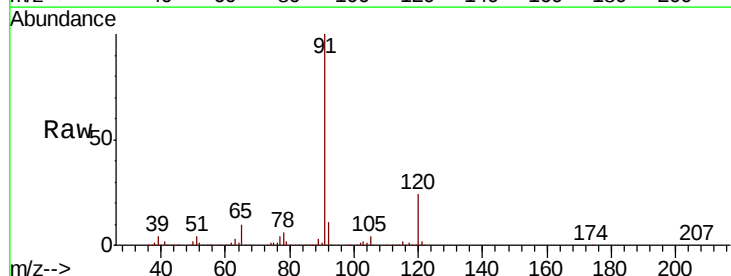
RT: 12.11 min Scan# 3216

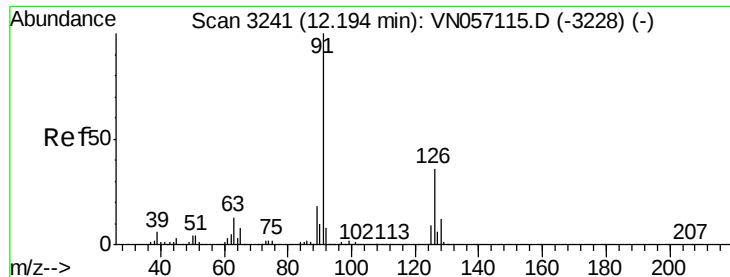
Delta R.T. 0.00 min

Lab File: VN057141.D

Acq: 9 Aug 2019 13:00

Tgt Ion	Ion	Ratio	Resp	Lower	Upper
91	100		994527		
120	24.1	12.0	36.0		





#79

2-Chlorotoluene

Concen: 20.980 ug/l

RT: 12.19 min Scan# 3241

Delta R.T. 0.00 min

Lab File: VN057141.D

Acq: 9 Aug 2019 13:00

Instrument :

MSVOA_N

ClientSampleId :

VN0809WBS01

Tot Ion: 91 Resp: 626614

Ion Ratio Lower Upper

91 100

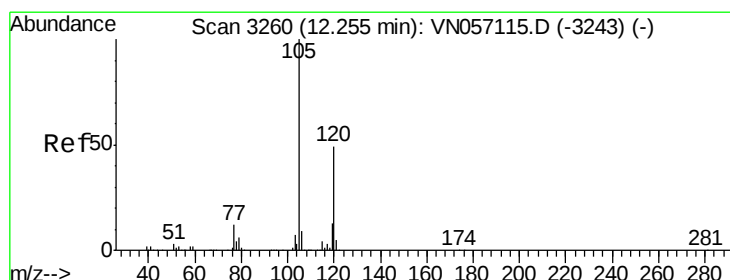
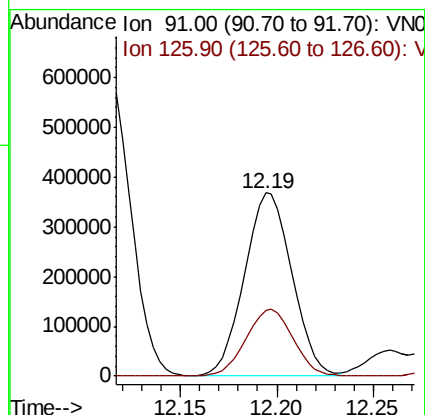
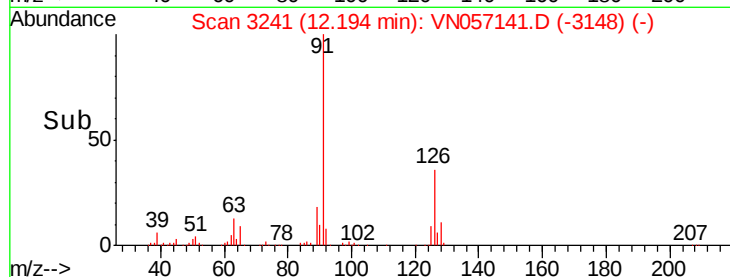
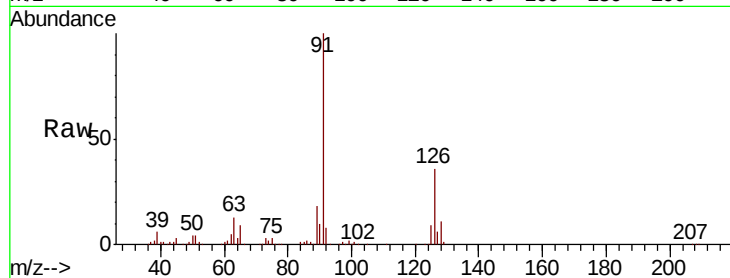
126 36.4 18.1 54.3

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#80

1,3,5-Trimethylbenzene

Concen: 19.671 ug/l

RT: 12.26 min Scan# 3261

Delta R.T. 0.00 min

Lab File: VN057141.D

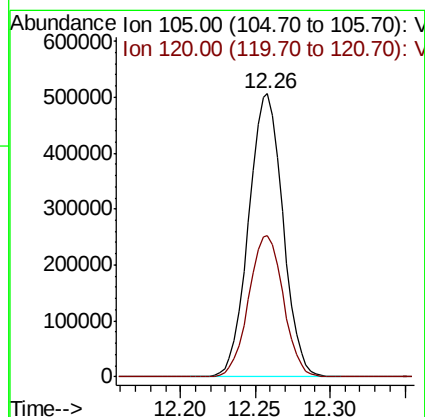
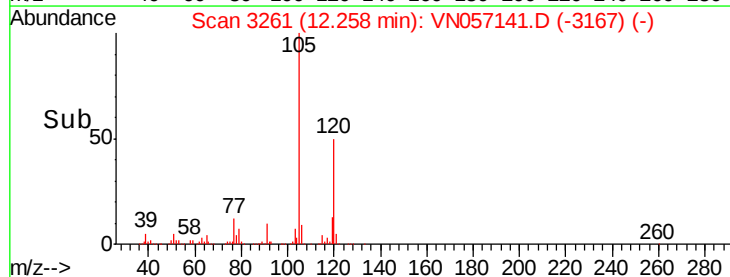
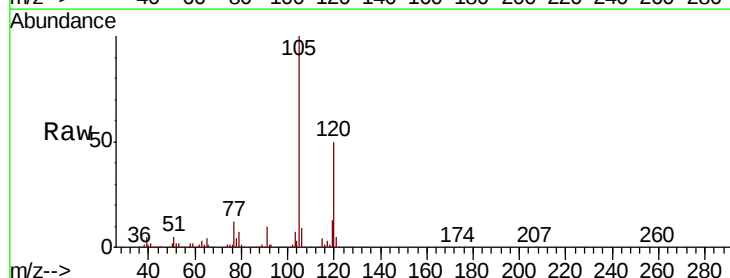
Acq: 9 Aug 2019 13:00

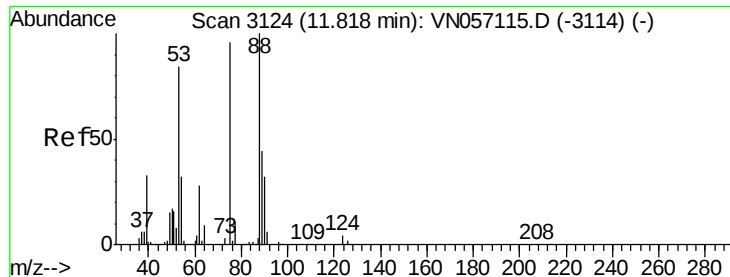
Tgt Ion: 105 Resp: 805260

Ion Ratio Lower Upper

105 100

120 50.3 24.6 73.6





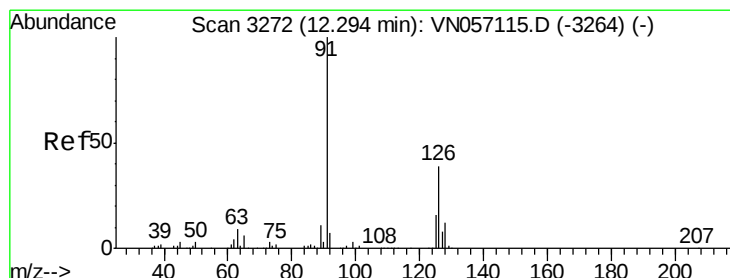
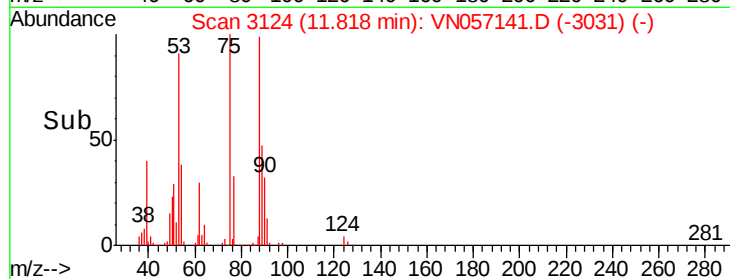
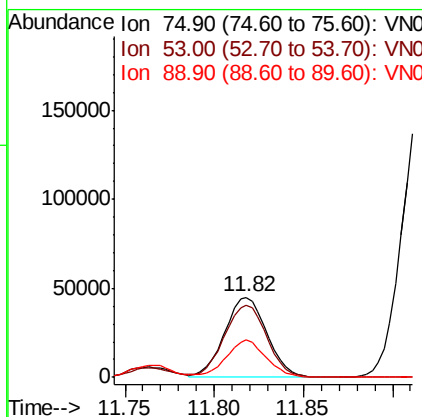
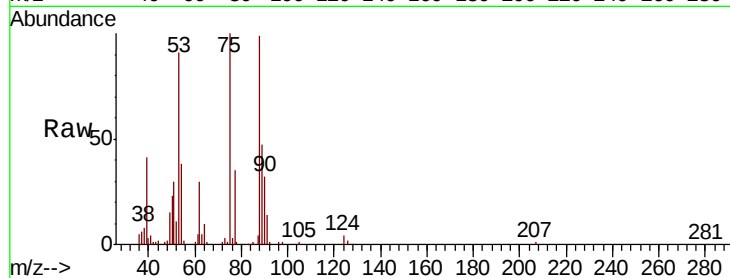
#81
trans-1,4-Dichloro-2-butene
Concen: 20.624 ug/l
RT: 11.82 min Scan# 3124
Delta R.T. -0.00 min
Lab File: VN057141.D
Acq: 9 Aug 2019 13:00

Instrument :
MSVOA_N
ClientSampleId :
VN0809WBS01

Tot Ion	Ratio	Lower	Upper
75	100		
53	91.2	70.6	106.0
89	44.3	36.4	54.6

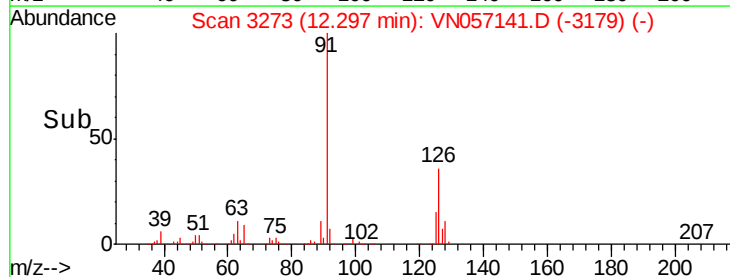
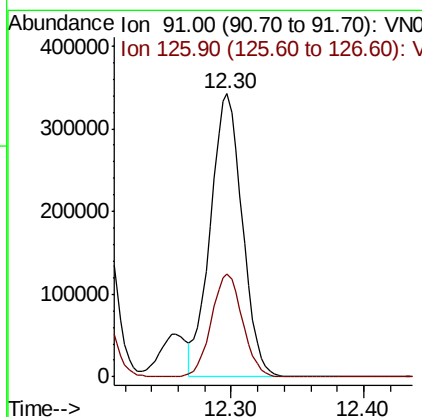
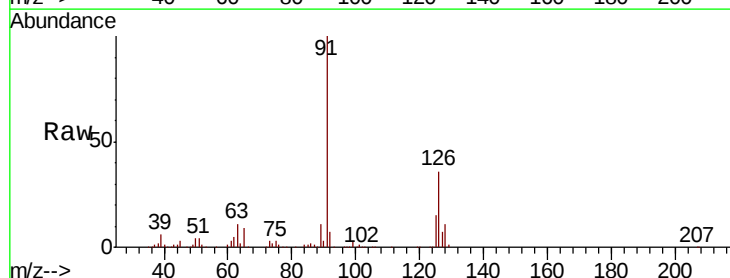
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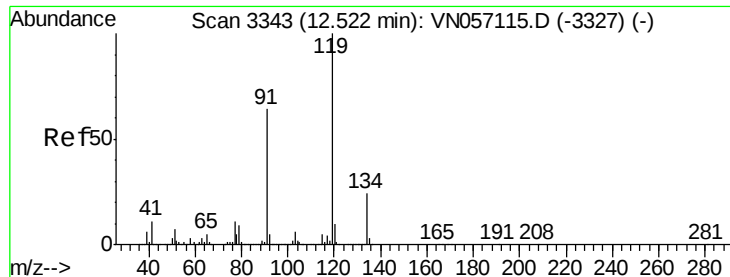
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#82
4-Chlorotoluene
Concen: 19.325 ug/l
RT: 12.30 min Scan# 3273
Delta R.T. 0.00 min
Lab File: VN057141.D
Acq: 9 Aug 2019 13:00

Tgt Ion	Ratio	Lower	Upper
91	100		
126	35.5	17.9	53.7





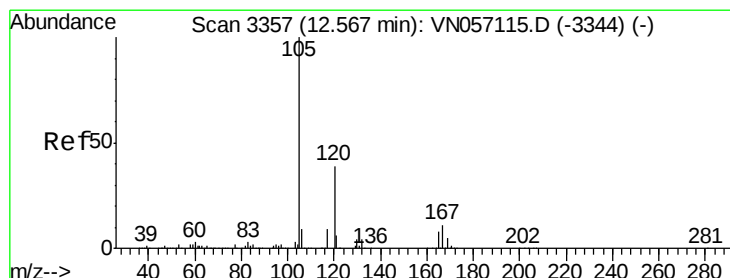
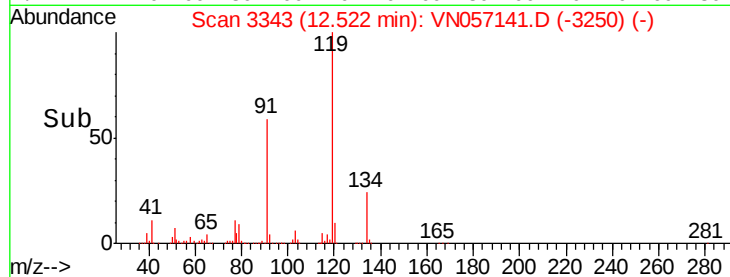
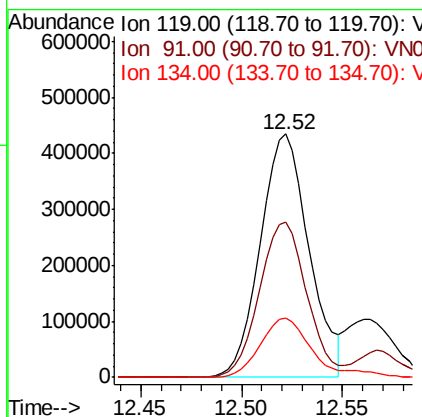
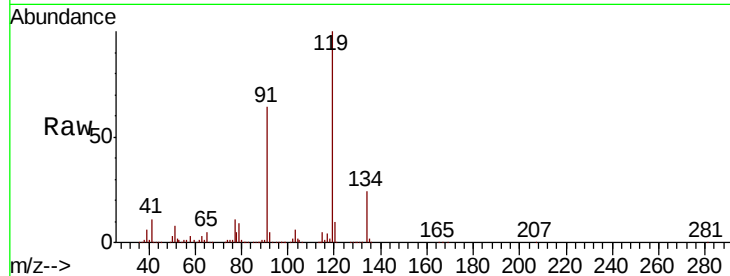
#83
 tert-Butylbenzene
 Concen: 21.483 ug/l
 RT: 12.52 min Scan# 3343
 Delta R.T. 0.00 min
 Lab File: VN057141.D
 Acq: 9 Aug 2019 13:00

Instrument :
 MSVOA_N
 ClientSampleId :
 VN0809WBS01

Tot Ion	Ratio	Lower	Upper
119	100		
91	62.3	31.4	94.2
134	26.1	13.2	39.6

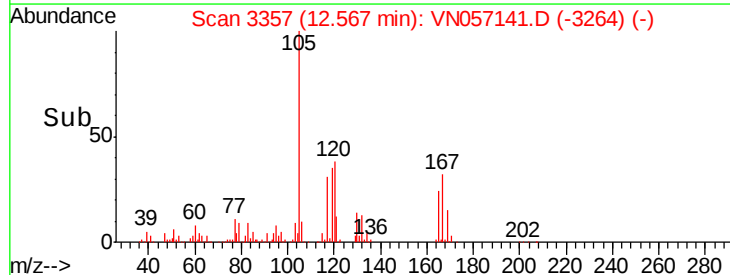
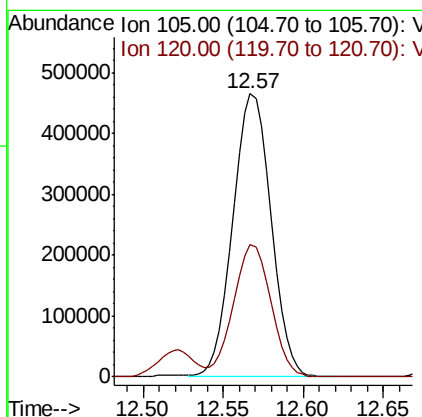
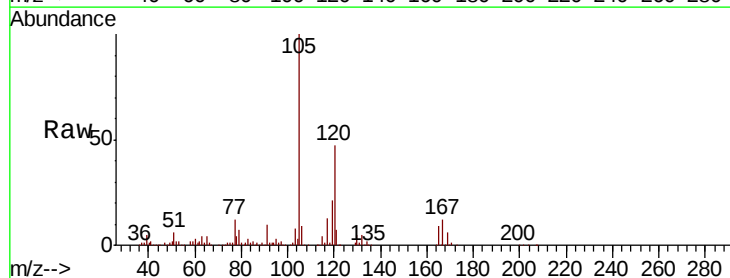
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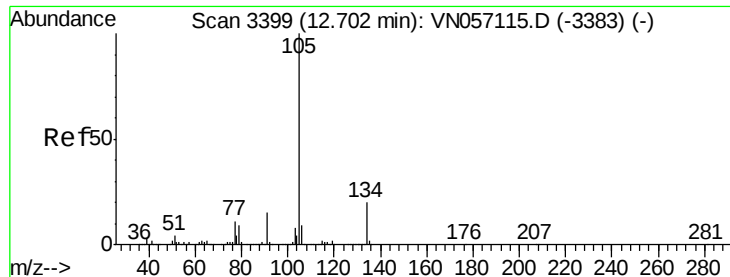
MMDadoda
 8/12/2019 3:34:40 PM



#84
 1,2,4-Trimethylbenzene
 Concen: 19.108 ug/l
 RT: 12.57 min Scan# 3357
 Delta R.T. -0.00 min
 Lab File: VN057141.D
 Acq: 9 Aug 2019 13:00

Tgt Ion	Ratio	Lower	Upper
105	100		
120	45.9	23.3	69.8





#85

sec-Butylbenzene

Concen: 19.159 ug/l

RT: 12.70 min Scan# 3399

Delta R.T. -0.00 min

Lab File: VN057141.D

Acq: 9 Aug 2019 13:00

Instrument :

MSVOA_N

ClientSampleId :

VN0809WBS01

Tot Ion:105 Resp: 885117

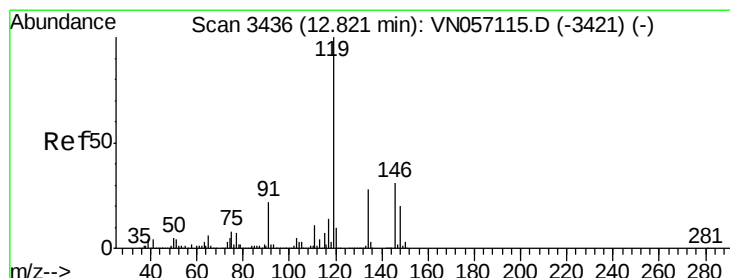
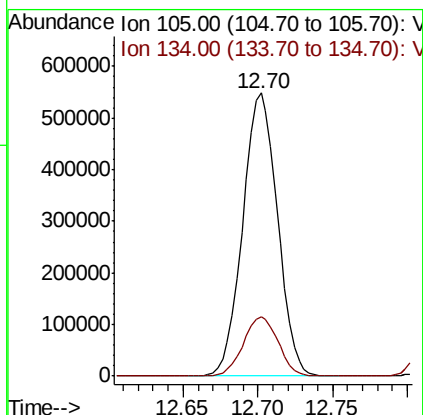
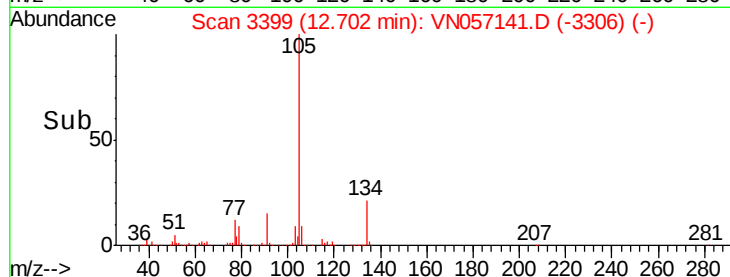
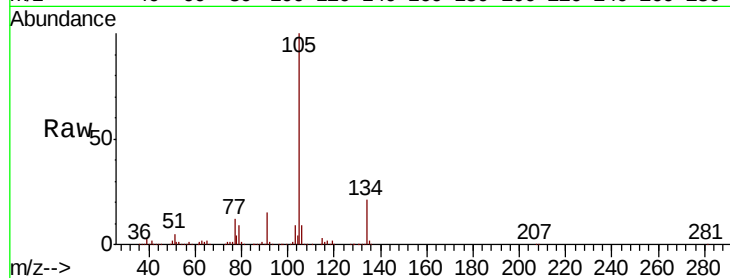
Ion Ratio Lower Upper

105 100

134 21.0 10.2 30.4

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#86

p-Isopropyltoluene

Concen: 18.842 ug/l

RT: 12.82 min Scan# 3436

Delta R.T. -0.00 min

Lab File: VN057141.D

Acq: 9 Aug 2019 13:00

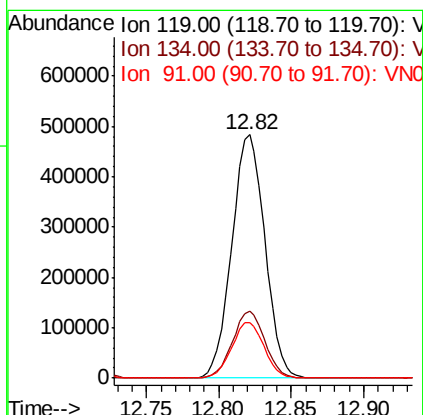
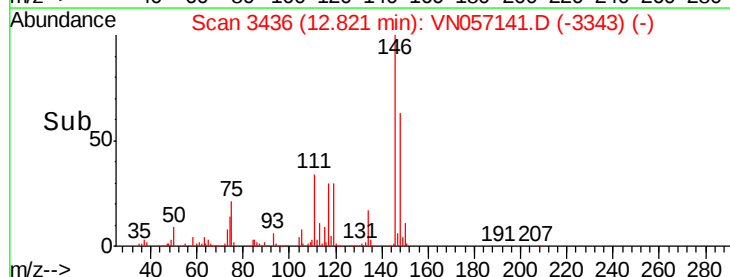
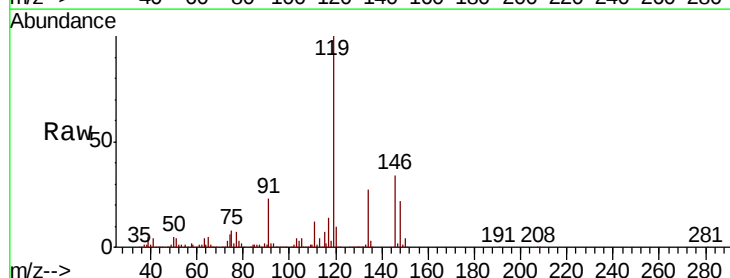
Tgt Ion:119 Resp: 763835

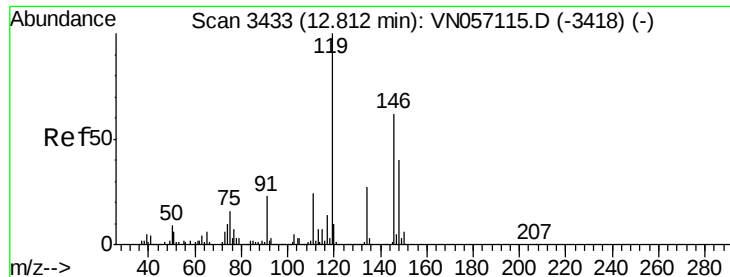
Ion Ratio Lower Upper

119 100

134 26.9 13.8 41.3

91 22.5 11.0 33.0





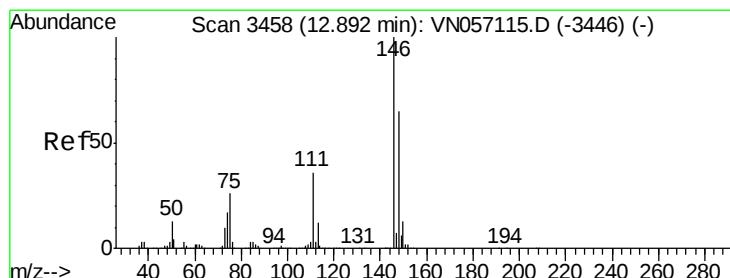
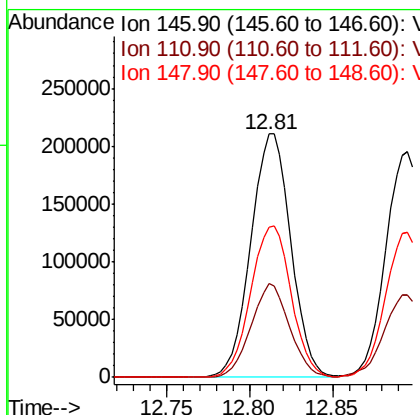
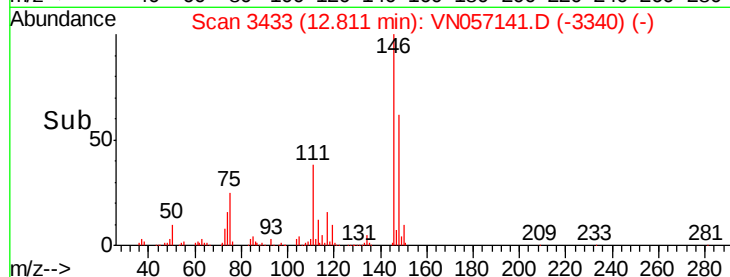
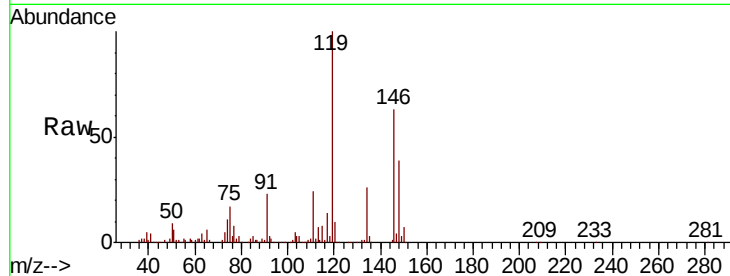
#87
 1,3-Dichlorobenzene
 Concen: 19.559 ug/l
 RT: 12.81 min Scan# 3433
 Delta R.T. -0.00 min
 Lab File: VN057141.D
 Acq: 9 Aug 2019 13:00

Instrument :
 MSVOA_N
 ClientSampleId :
 VN0809WBS01

Tot Ion	Ratio	Lower	Upper
146	100		
111	37.0	18.8	56.4
148	62.9	32.4	97.0

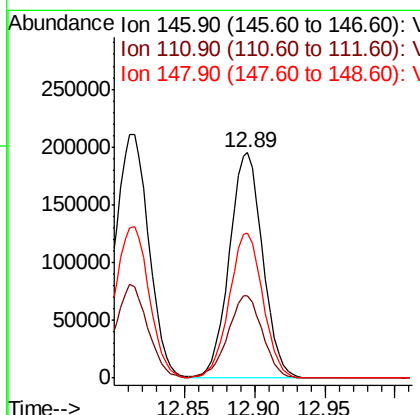
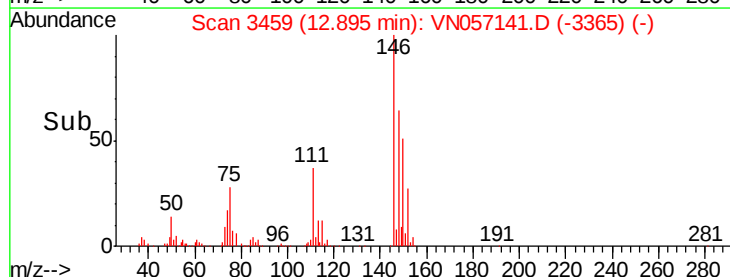
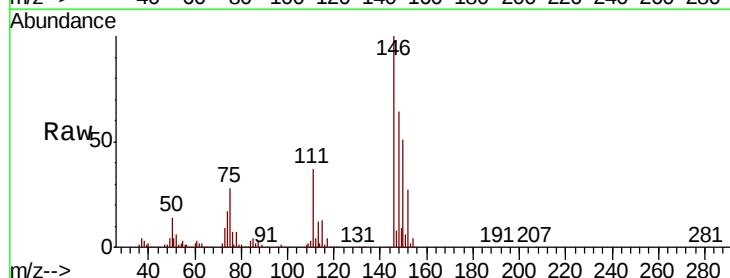
Manual Integrations
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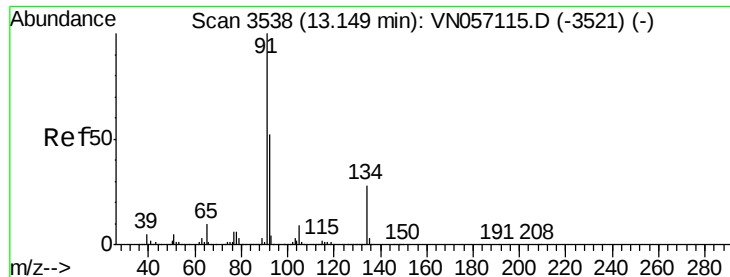
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#88
 1,4-Dichlorobenzene
 Concen: 18.750 ug/l
 RT: 12.89 min Scan# 3459
 Delta R.T. 0.00 min
 Lab File: VN057141.D
 Acq: 9 Aug 2019 13:00

Tgt Ion	Ratio	Lower	Upper
146	100		
111	38.3	18.2	54.6
148	65.0	32.0	96.2





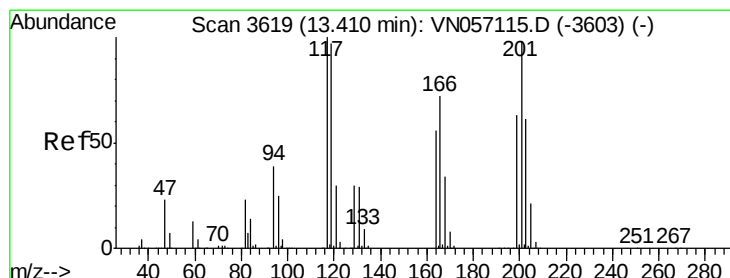
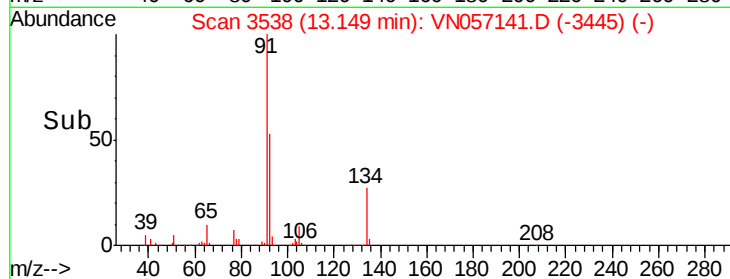
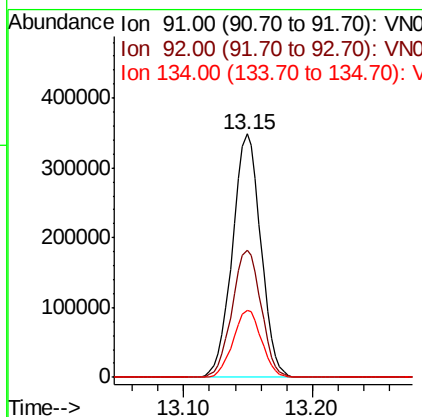
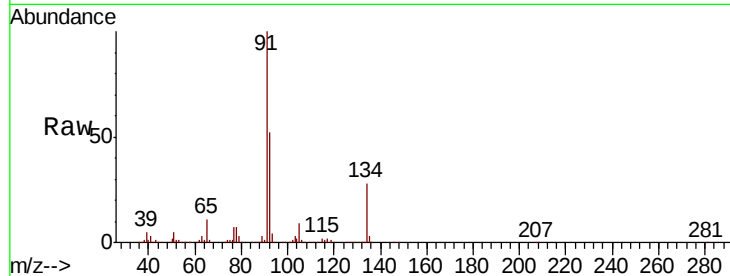
#89
n-Butylbenzene
Concen: 19.032 ug/l
RT: 13.15 min Scan# 3538
Delta R.T. -0.00 min
Lab File: VN057141.D
Acq: 9 Aug 2019 13:00

Instrument :
MSVOA_N
ClientSampleId :
VN0809WBS01

Tot Ion	Ratio	Lower	Upper
91	100		
92	53.4	26.5	79.4
134	27.7	14.1	42.3

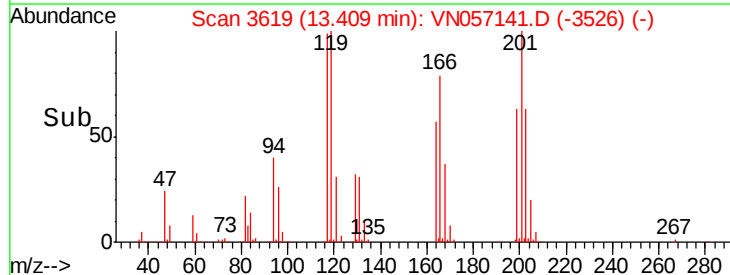
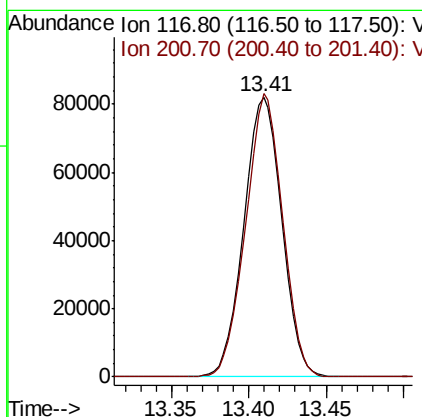
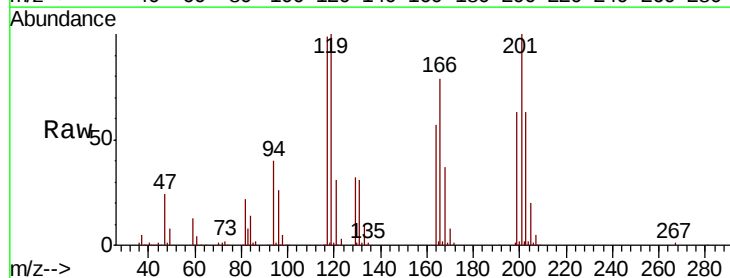
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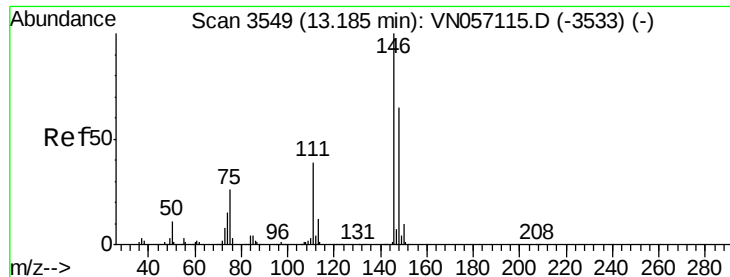
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#90
Hexachloroethane
Concen: 21.229 ug/l
RT: 13.41 min Scan# 3619
Delta R.T. 0.00 min
Lab File: VN057141.D
Acq: 9 Aug 2019 13:00

Tgt Ion	Ratio	Lower	Upper
117	100		
201	98.7	49.3	147.8





#91

1,2-Dichlorobenzene

Concen: 19.155 ug/l

RT: 13.19 min Scan# 3550

Delta R.T. 0.00 min

Lab File: VN057141.D

Acq: 9 Aug 2019 13:00

Instrument :

MSVOA_N

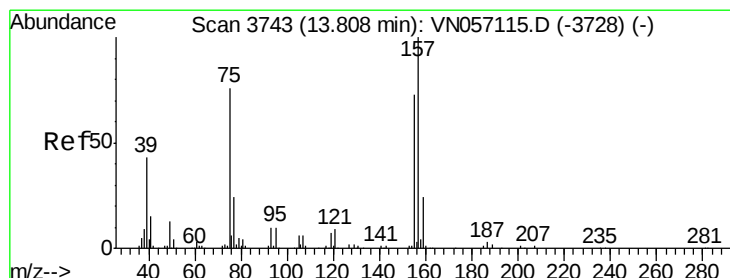
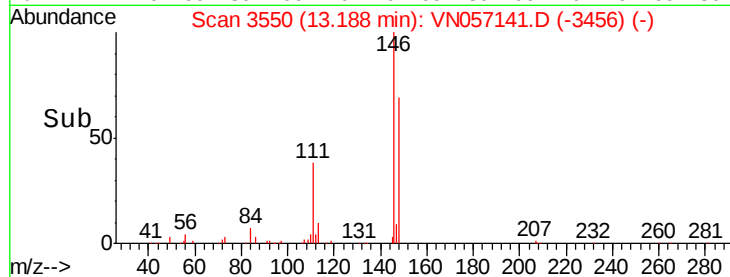
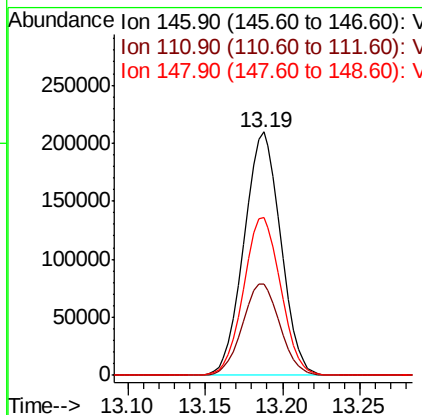
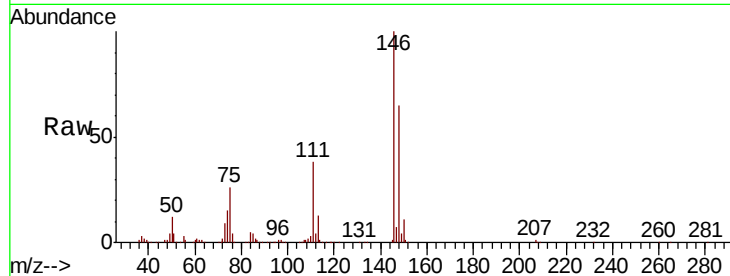
ClientSampleId :

VN0809WBS01

Tot Ion:	146	Resp:	347075
Ion Ratio	Lower	Upper	
146	100		
111	38.2	19.2	57.6
148	65.7	32.4	97.0

Manual Integrations
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8/12/2019 3:34:40 PM



#92

1,2-Dibromo-3-Chloropropane

Concen: 18.108 ug/l

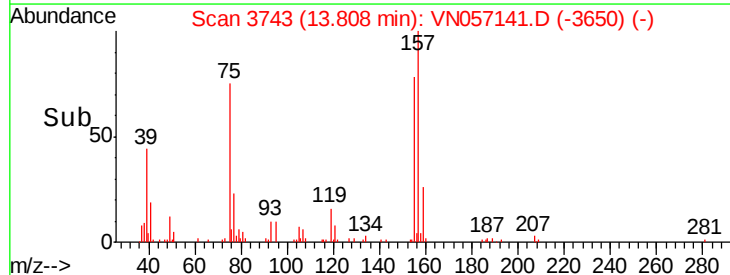
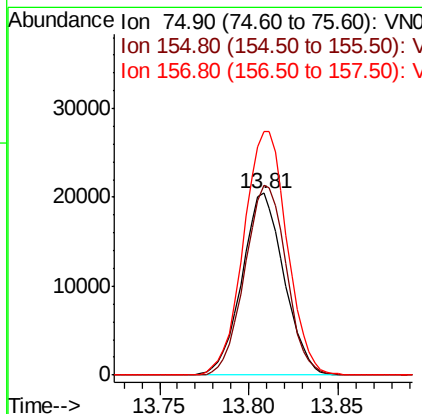
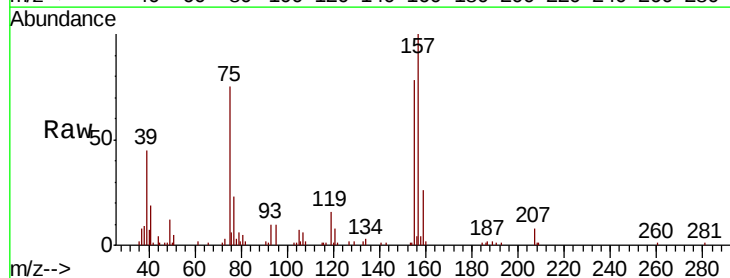
RT: 13.81 min Scan# 3743

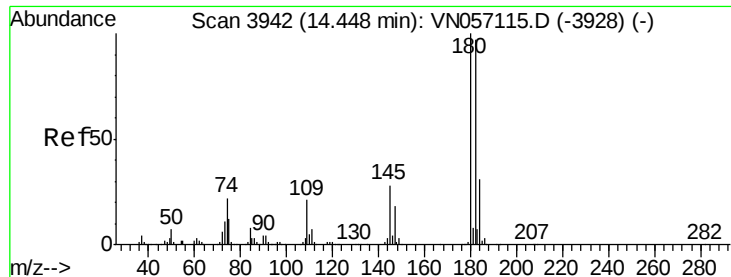
Delta R.T. -0.00 min

Lab File: VN057141.D

Acq: 9 Aug 2019 13:00

Tgt Ion:	75	Resp:	33754
Ion Ratio	Lower	Upper	
75	100		
155	102.8	49.3	147.9
157	138.3	65.3	195.8





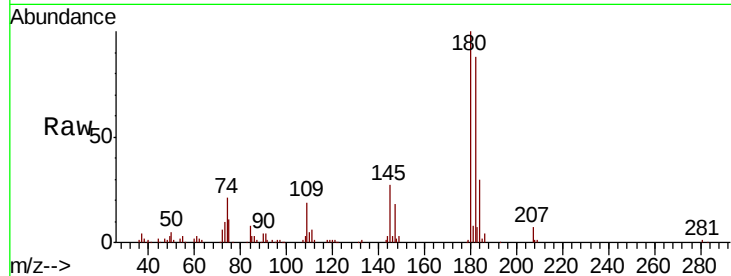
#93
 1,2,4-Trichlorobenzene
 Concen: 16.627 ug/l
 RT: 14.45 min Scan# 3943
 Delta R.T. 0.00 min
 Lab File: VN057141.D
 Acq: 9 Aug 2019 13:00

Instrument :
 MSVOA_N
 ClientSampleId :
 VN0809WBS01

Tot Ion	Ratio	Resp	Lower	Upper
180	100			
182	95.6	47.5	142.6	
145	27.3	14.1	42.2	

Manual Integrations
 APPROVED

MMDadoda
 8/12/2019 3:34:40 PM

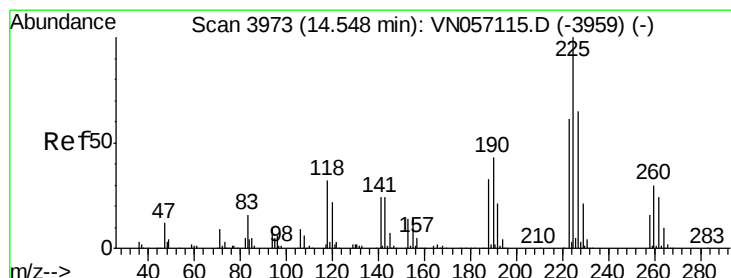
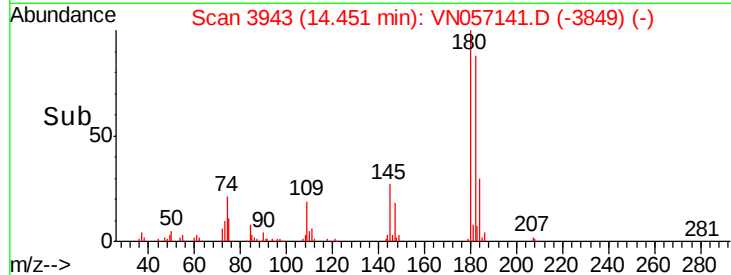
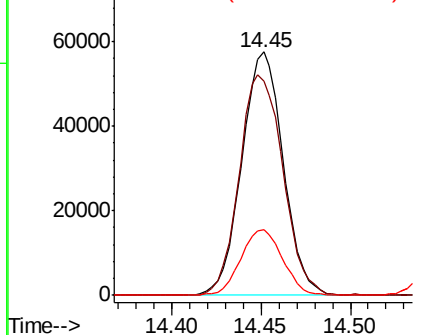


Abundance

Ion 179.80 (179.50 to 180.50): V

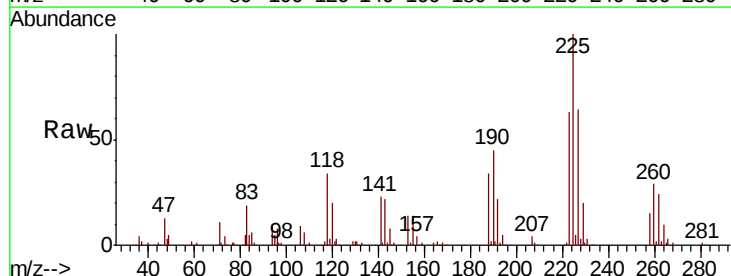
Ion 181.80 (181.50 to 182.50): V

Ion 144.80 (144.50 to 145.50): V



#94
 Hexachlorobutadiene
 Concen: 21.194 ug/l
 RT: 14.55 min Scan# 3973
 Delta R.T. 0.00 min
 Lab File: VN057141.D
 Acq: 9 Aug 2019 13:00

Tgt Ion	Ratio	Resp	Lower	Upper
225	100			
223	64.9	30.9	92.8	
227	63.5	32.4	97.0	

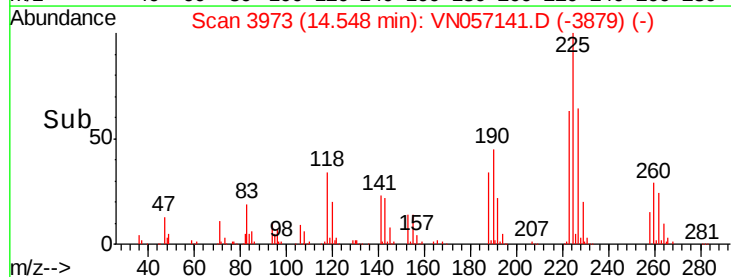
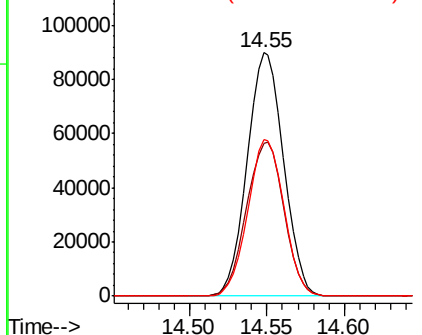


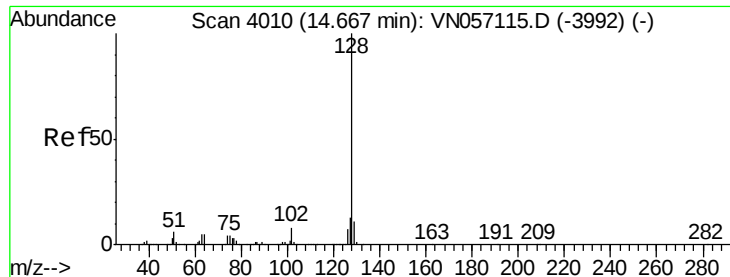
Abundance

Ion 224.70 (224.40 to 225.40): V

Ion 222.70 (222.40 to 223.40): V

Ion 226.70 (226.40 to 227.40): V





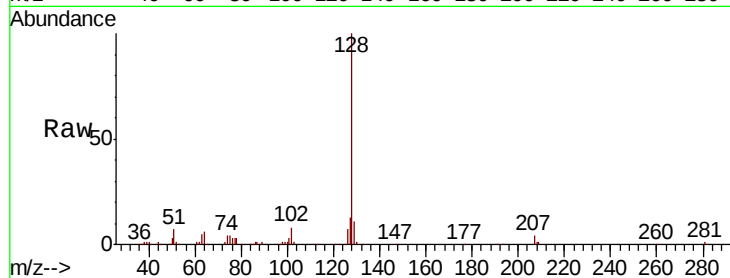
#95
Naphthalene
Concen: 16.098 ug/l
RT: 14.67 min Scan# 4010
Delta R.T. 0.00 min
Lab File: VN057141.D
Acq: 9 Aug 2019 13:00

Instrument :
MSVOA_N
ClientSampleId :
VN0809WBS01

Tot Ion	Ratio	Resp	Lower	Upper
128	100	191170		
127	13.3		10.3	15.5
129	11.0		8.8	13.2

Manual Integrations
APPROVED

MMDadoda
8/12/2019 3:34:40 PM

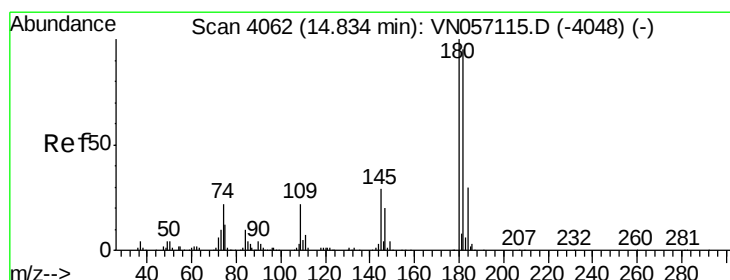
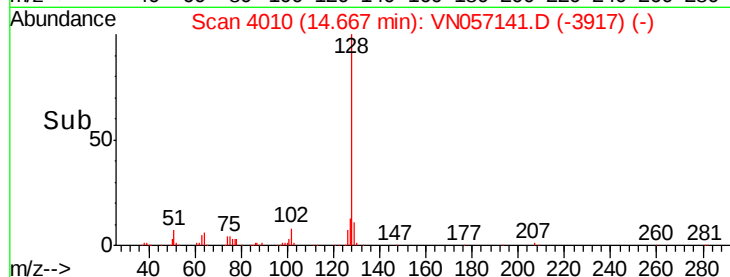
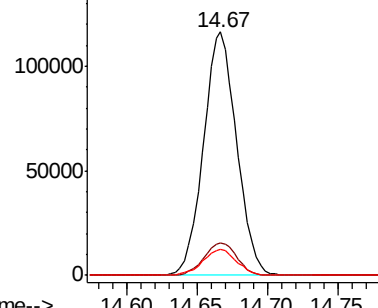


Abundance

Ion 128.00 (127.70 to 128.70): V

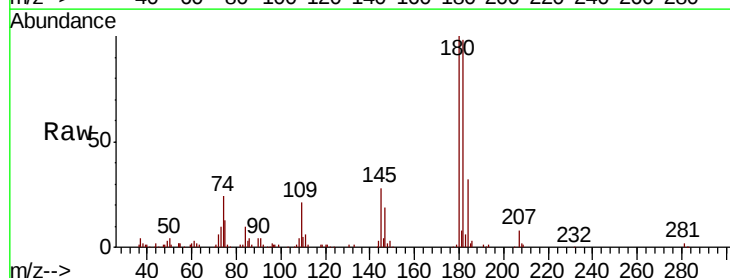
Ion 127.00 (126.70 to 127.70): V

Ion 129.00 (128.70 to 129.70): V



#96
1,2,3-Trichlorobenzene
Concen: 16.935 ug/l
RT: 14.83 min Scan# 4062
Delta R.T. -0.00 min
Lab File: VN057141.D
Acq: 9 Aug 2019 13:00

Tgt Ion	Ratio	Resp	Lower	Upper
180	100	100648		
182	97.1		48.3	144.8
145	30.3		14.9	44.5



Abundance

Ion 179.80 (179.50 to 180.50): V

Ion 181.80 (181.50 to 182.50): V

Ion 144.90 (144.60 to 145.60): V

