

Data Path : Z:\VOASRV\HPCHEM1\MSVOA N\DATA\VN021919\
 Data File : VN053868.D
 Acq On : 19 Feb 2019 15:52
 Operator : JC/SP
 Sample : VSTDCCC050
 Misc : 5.00mL/MSVOA N/WATER
 ALS Vial : 14 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 VSTDCCC050EC

Manual Integrations
 APPROVED

MMDadoda
 2/20/2019 10:15:04 AM

Quant Time: Feb 20 03:46:47 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_N\METHODS\82N013019W.M
 Quant Title : SW846 8260
 QLast Update : Fri Feb 01 09:11:52 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	7.66	168	642006	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	8.58	114	922329	50.00	ug/l	0.00
63) Chlorobenzene-d5	11.41	117	797808	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.34	152	411967	50.00	ug/l	0.00

System Monitoring Compounds	R.T.	QIon	Response	Conc	Units	Dev(Min)
33) 1,2-Dichloroethane-d4	8.02	65	292627	45.44	ug/l	0.00
Spiked Amount			Recovery	=	90.88%	
35) Dibromofluoromethane	7.59	113	281305	48.27	ug/l	0.00
Spiked Amount			Recovery	=	96.54%	
50) Toluene-d8	10.09	98	1017372	46.49	ug/l	0.00
Spiked Amount			Recovery	=	92.98%	
62) 4-Bromofluorobenzene	12.40	95	350512	48.03	ug/l	0.00
Spiked Amount			Recovery	=	96.06%	

Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
2) Dichlorodifluoromethane	1.85	85	296015	40.960	ug/l	100
3) Chloromethane	2.06	50	312680	41.024	ug/l	100
4) Vinyl Chloride	2.19	62	335805	45.386	ug/l	99
5) Bromomethane	2.57	94	243385	50.310	ug/l	98
6) Chloroethane	2.71	64	225652	53.369	ug/l	100
7) Trichlorofluoromethane	3.02	101	507455	50.576	ug/l	99
8) Diethyl Ether	3.41	74	162314	44.296	ug/l	98
9) 1,1,2-Trichlorotrifluoroet	3.76	101	307115	49.493	ug/l	98
10) Methyl Iodide	3.95	142	432654	44.423	ug/l	100
11) Tert butyl alcohol	4.77	59	84151	220.771	ug/l	99
12) 1,1-Dichloroethene	3.74	96	270513	45.502	ug/l	98
13) Acrolein	3.61	56	48181	232.164	ug/l	97
14) Allyl chloride	4.32	41	401964	42.464	ug/l	94
15) Acrylonitrile	4.98	53	471270	229.023	ug/l	99
16) Acetone	3.81	43	406663	246.161	ug/l	99
17) Carbon Disulfide	4.06	76	696028	37.599	ug/l	99
18) Methyl Acetate	4.32	43	249433	50.983	ug/l	98
19) Methyl tert-butyl Ether	5.04	73	730171	48.448	ug/l	99
20) Methylene Chloride	4.55	84	311696	44.972	ug/l	97
21) trans-1,2-Dichloroethene	5.04	96	289256	45.098	ug/l	98
22) Diisopropyl ether	5.95	45	862145	49.154	ug/l	97
23) Vinyl Acetate	5.89	43	2742614	226.034	ug/l	97
24) 1,1-Dichloroethane	5.85	63	549135	46.940	ug/l	99
25) 2-Butanone	6.83	43	531778	225.699	ug/l	97
26) 2,2-Dichloropropane	6.82	77	441258	49.411	ug/l	99
27) cis-1,2-Dichloroethene	6.83	96	343352	48.142	ug/l	98
28) Bromochloromethane	7.19	49	208145	40.999	ug/l	93
29) Tetrahydrofuran	7.20	42	329809	217.991	ug/l	97
30) Chloroform	7.37	83	567415	48.928	ug/l	99
31) Cyclohexane	7.65	56	476937	43.767	ug/l	98
32) 1,1,1-Trichloroethane	7.57	97	484494	50.201	ug/l	99
36) 1,1-Dichloropropene	7.79	75	446443	53.696	ug/l	99
37) Ethyl Acetate	6.92	43	216405	46.604	ug/l	99
38) Carbon Tetrachloride	7.77	117	442162	52.791	ug/l	99

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Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
39) Methylcyclohexane	9.08	83	500843	50.775	ug/l	98
40) Benzene	8.04	78	1345614	52.483	ug/l	99
41) Methacrylonitrile	7.18	41	147506m	56.837	ug/l	
42) 1,2-Dichloroethane	8.12	62	393326	51.667	ug/l	99
43) Isopropyl Acetate	8.16	43	425915	47.495	ug/l #	89
44) Trichloroethene	8.83	130	361464	49.521	ug/l	99
45) 1,2-Dichloropropane	9.12	63	336369	51.293	ug/l	99
46) Dibromomethane	9.21	93	193935	49.059	ug/l	98
47) Bromodichloromethane	9.40	83	429968	52.312	ug/l	99
48) Methyl methacrylate	9.20	41	189731	44.323	ug/l	92
49) 1,4-Dioxane	9.19	88	57569	930.947	ug/l	96
51) 4-Methyl-2-Pentanone	9.98	43	1068891	242.559	ug/l	99
52) Toluene	10.15	92	774376	50.890	ug/l	99
53) t-1,3-Dichloropropene	10.38	75	424489	51.576	ug/l	99
54) cis-1,3-Dichloropropene	9.84	75	501457	51.416	ug/l	97
55) 1,1,2-Trichloroethane	10.56	97	283593	51.721	ug/l	98
56) Ethyl methacrylate	10.43	69	326418	50.322	ug/l	98
57) 1,3-Dichloropropane	10.71	76	466032	49.731	ug/l	99
58) 2-Chloroethyl Vinyl ether	9.69	63	709530	178.735	ug/l	98
59) 2-Hexanone	10.75	43	697326	233.095	ug/l	98
60) Dibromochloromethane	10.90	129	330168	53.397	ug/l	99
61) 1,2-Dibromoethane	11.00	107	264133	48.670	ug/l	99
64) Tetrachloroethene	10.63	164	361321	52.833	ug/l	97
65) Chlorobenzene	11.43	112	881622	52.024	ug/l	99
66) 1,1,1,2-Tetrachloroethane	11.51	131	327683	55.368	ug/l	99
67) Ethyl Benzene	11.51	91	1460275	52.457	ug/l	99
68) m/p-Xylenes	11.62	106	1148289	108.079	ug/l	98
69) o-Xylene	11.95	106	555840	54.153	ug/l	98
70) Styrene	11.96	104	910911	54.753	ug/l	100
71) Bromoform	12.12	173	225056	55.467	ug/l #	99
73) Isopropylbenzene	12.25	105	1479415	51.083	ug/l	99
74) N-amyl acetate	12.07	43	320596	46.036	ug/l	99
75) 1,1,2,2-Tetrachloroethane	12.50	83	312239	45.049	ug/l	100
76) 1,2,3-Trichloropropane	12.55	75	298439m	56.400	ug/l	
77) Bromobenzene	12.53	156	385794	49.428	ug/l	97
78) n-propylbenzene	12.59	91	1744646	52.112	ug/l	100
79) 2-Chlorotoluene	12.67	91	1009096	50.804	ug/l	99
80) 1,3,5-Trimethylbenzene	12.73	105	1282566	53.406	ug/l	99
81) trans-1,4-Dichloro-2-buten	12.30	75	88654	47.111	ug/l	97
82) 4-Chlorotoluene	12.77	91	1031282	50.599	ug/l	100
83) tert-Butylbenzene	12.99	119	1132576	53.359	ug/l	99
84) 1,2,4-Trimethylbenzene	13.04	105	1299651	53.118	ug/l	100
85) sec-Butylbenzene	13.17	105	1577808	54.626	ug/l	100
86) p-Isopropyltoluene	13.29	119	1431225	56.657	ug/l	99
87) 1,3-Dichlorobenzene	13.28	146	744953	53.094	ug/l	99
88) 1,4-Dichlorobenzene	13.36	146	720684	51.925	ug/l	100
89) n-Butylbenzene	13.61	91	1260679	57.657	ug/l	99
90) Hexachloroethane	13.87	117	253504	60.839	ug/l	96
91) 1,2-Dichlorobenzene	13.65	146	746706	55.590	ug/l	99
92) 1,2-Dibromo-3-Chloropropan	14.27	75	47828	48.419	ug/l	98

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Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
93) 1,2,4-Trichlorobenzene	14.91	180	403864	52.423	ug/l	99
94) Hexachlorobutadiene	15.01	225	297738	62.059	ug/l	100
95) Naphthalene	15.13	128	708726	39.539	ug/l	100
96) 1,2,3-Trichlorobenzene	15.31	180	375397	52.516	ug/l	99

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

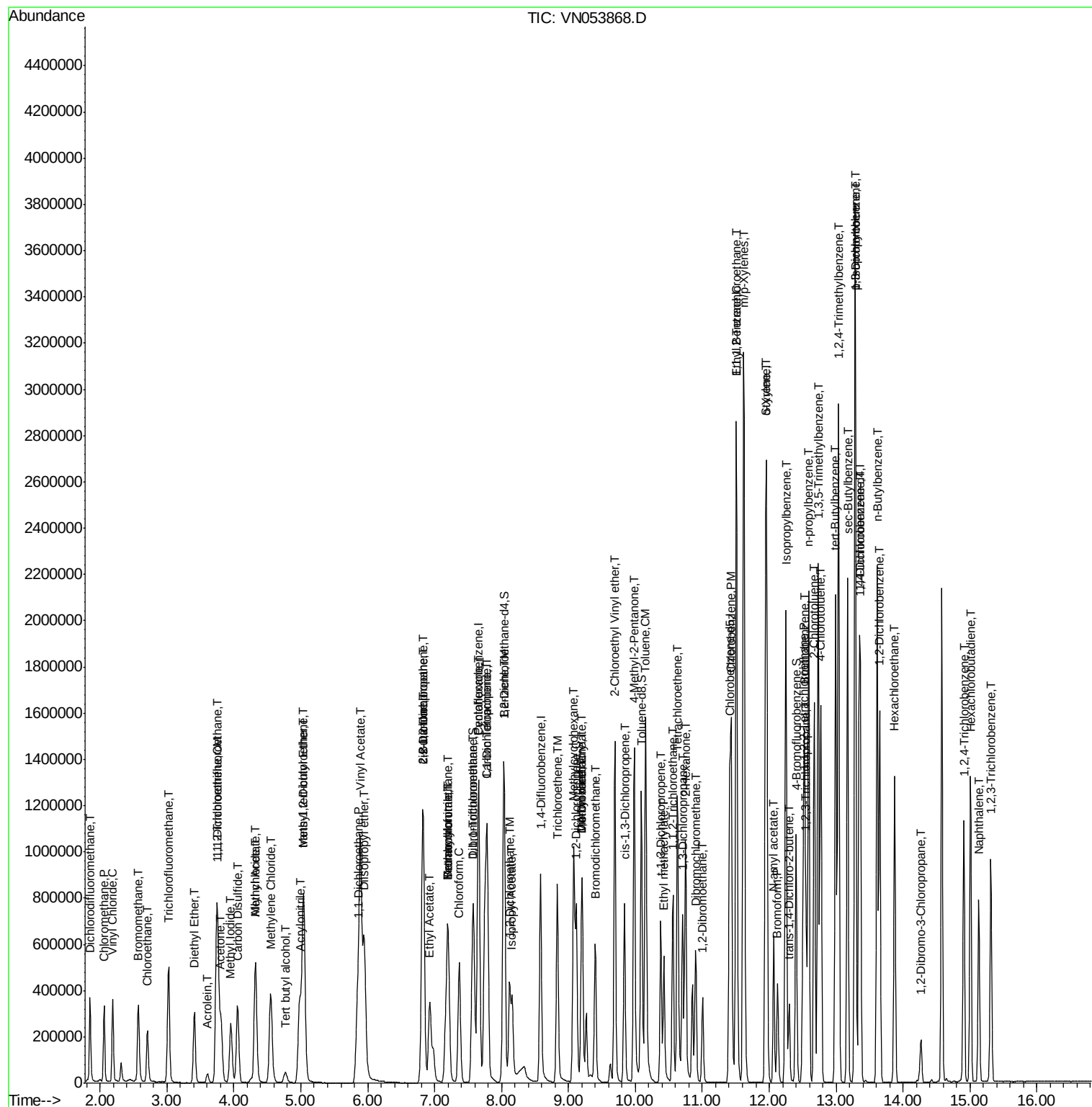
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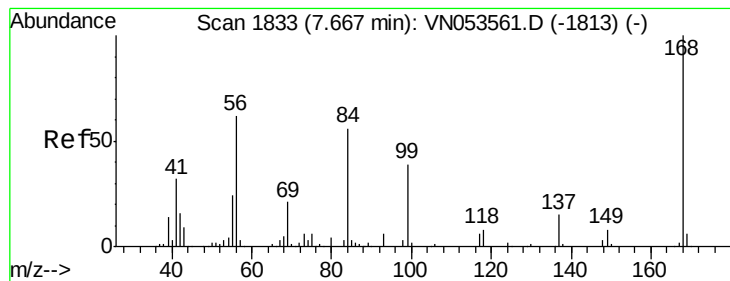
Instrument :
 MSVOA_N
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#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 7.66 min Scan# 1832

Delta R.T. -0.00 min

Lab File: VN053868.D

Acq: 19 Feb 2019 15:52

Instrument :

MSVOA_N

ClientSampleId :

VSTDCCC050EC

Tot Ion:168 Resp: 642006

Ion Ratio Lower Upper

168 100

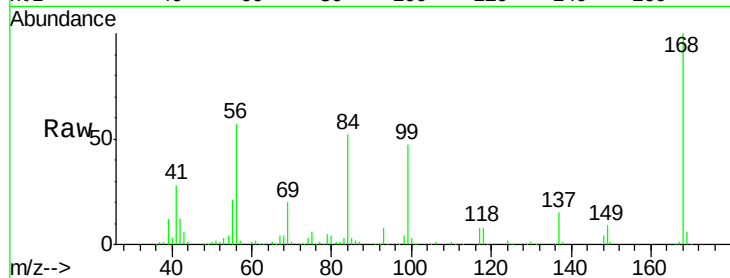
99 46.7 39.1 58.7

Manual Integrations

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Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VN

7.66

250000

200000

150000

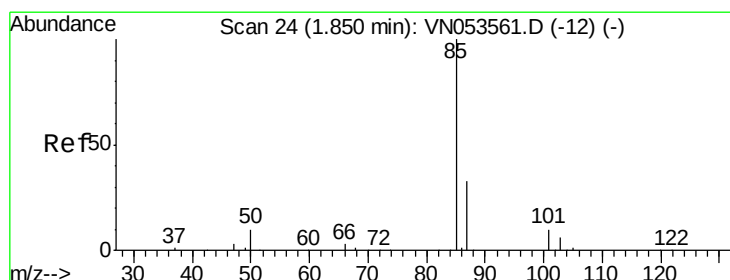
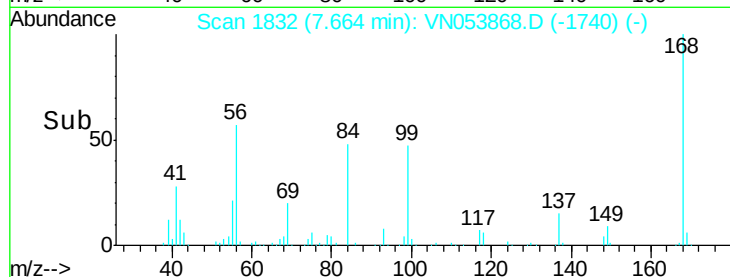
100000

50000

0

Time-->

7.50 7.60 7.70 7.80 7.90



#2

Dichlorodifluoromethane

Concen: 40.960 ug/l

RT: 1.85 min Scan# 24

Delta R.T. 0.00 min

Lab File: VN053868.D

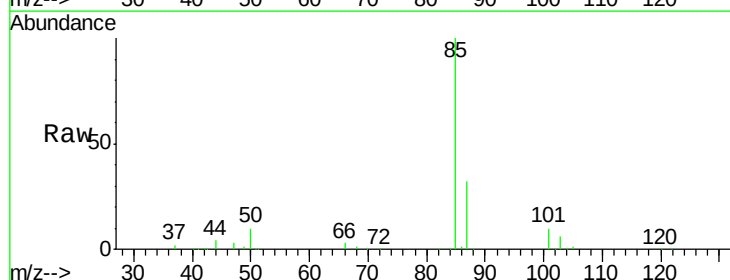
Acq: 19 Feb 2019 15:52

Tgt Ion: 85 Resp: 296015

Ion Ratio Lower Upper

85 100

87 32.5 16.2 48.5



Abundance Ion 84.90 (84.60 to 85.60): VN

Ion 86.90 (86.60 to 87.60): VN

1.85

250000

200000

150000

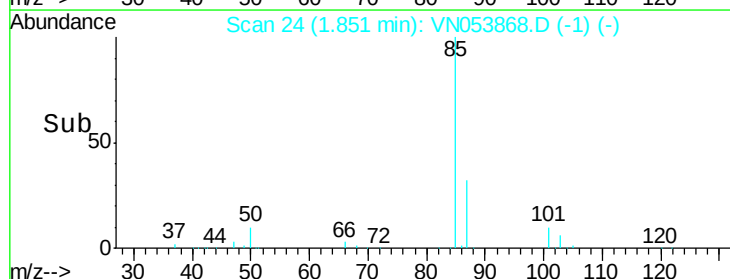
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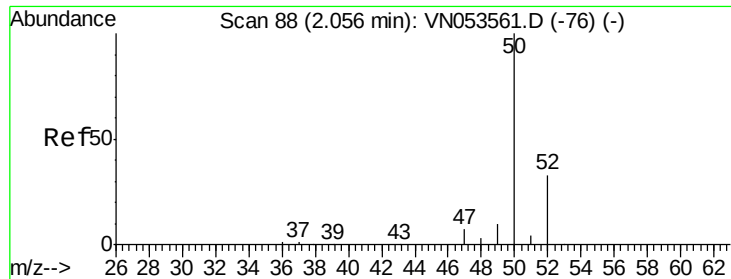
50000

0

Time-->

1.80 1.90 2.00





#3

Chloromethane

Concen: 41.024 ug/l

RT: 2.06 min Scan# 89

Delta R.T. 0.00 min

Lab File: VN053868.D

Acq: 19 Feb 2019 15:52

Instrument :

MSVOA_N

ClientSampleId :

VSTDCCC050EC

Tot Ion: 50 Resp: 312680

Ion Ratio Lower Upper

50 100

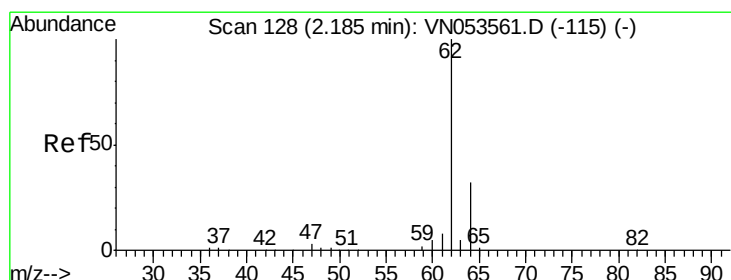
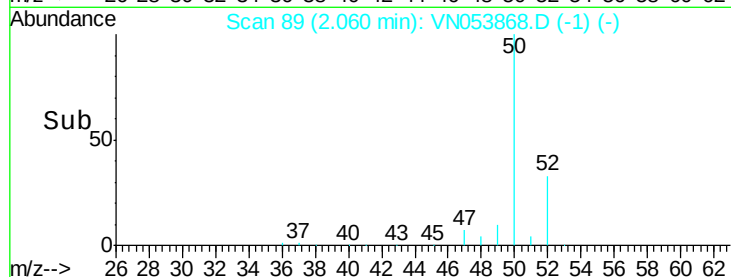
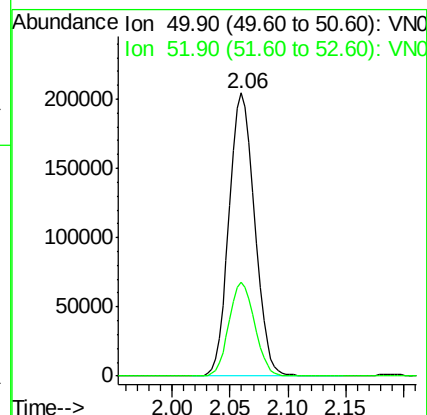
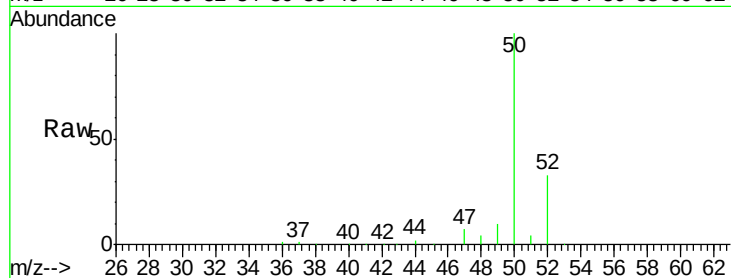
52 33.1 26.6 40.0

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#4

Vinyl Chloride

Concen: 45.386 ug/l

RT: 2.19 min Scan# 129

Delta R.T. 0.00 min

Lab File: VN053868.D

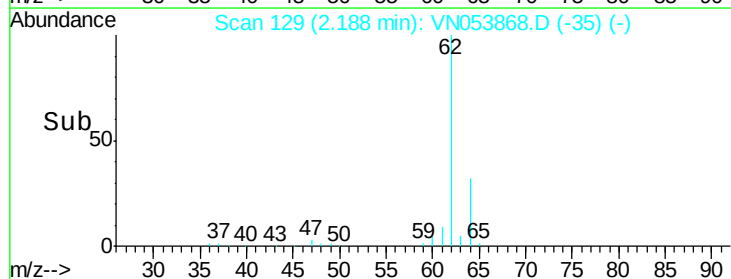
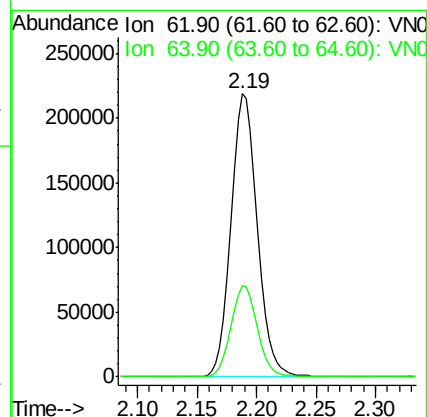
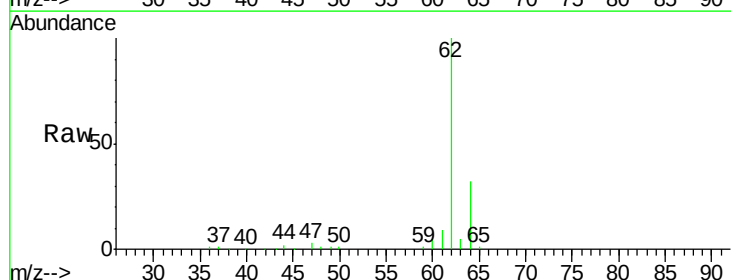
Acq: 19 Feb 2019 15:52

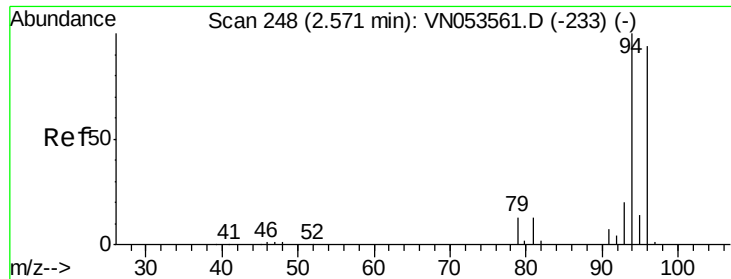
Tgt Ion: 62 Resp: 335805

Ion Ratio Lower Upper

62 100

64 32.2 25.4 38.2





#5

Bromomethane

Concen: 50.310 ug/l

RT: 2.57 min Scan# 248

Delta R.T. 0.00 min

Lab File: VN053868.D

Acq: 19 Feb 2019 15:52

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Tot Ion: 94 Resp: 243385

Ion Ratio Lower Upper

94 100

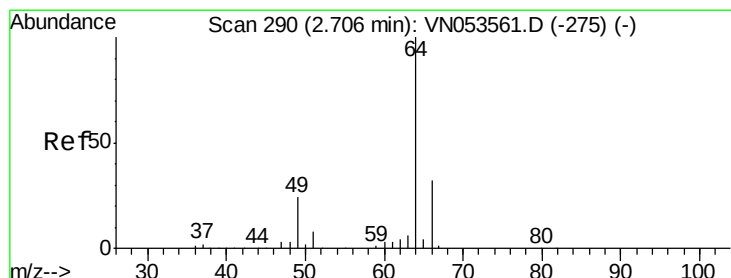
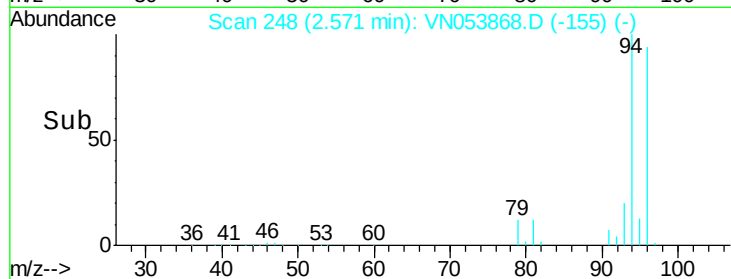
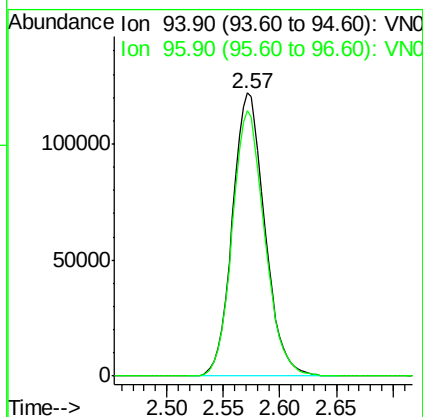
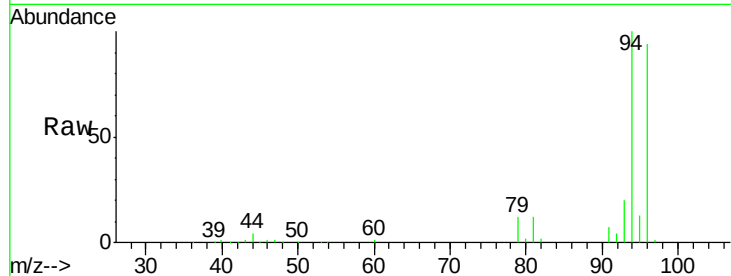
96 93.7 76.8 115.2

Manual Integrations

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#6

Chloroethane

Concen: 53.369 ug/l

RT: 2.71 min Scan# 291

Delta R.T. 0.00 min

Lab File: VN053868.D

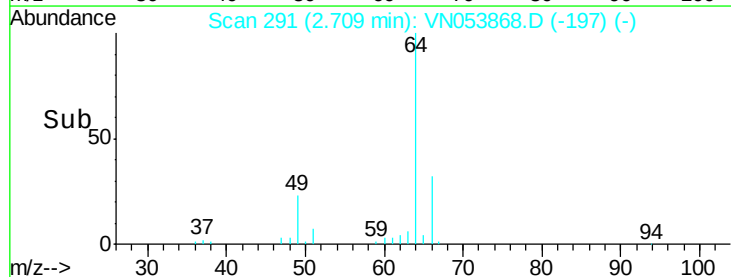
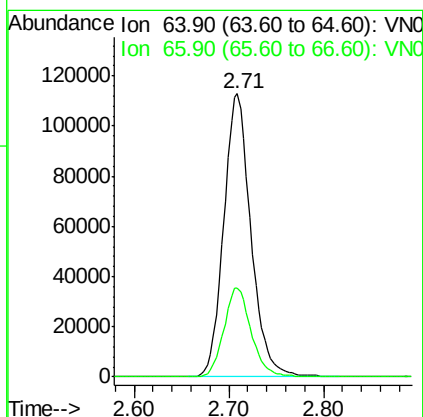
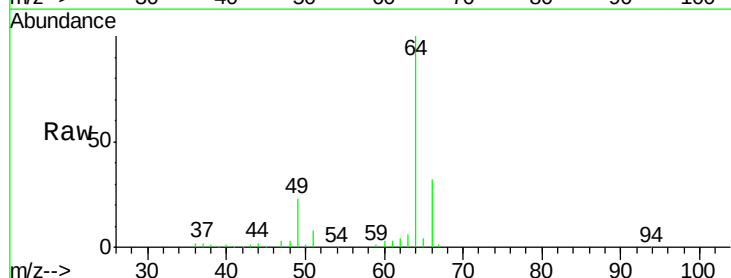
Acq: 19 Feb 2019 15:52

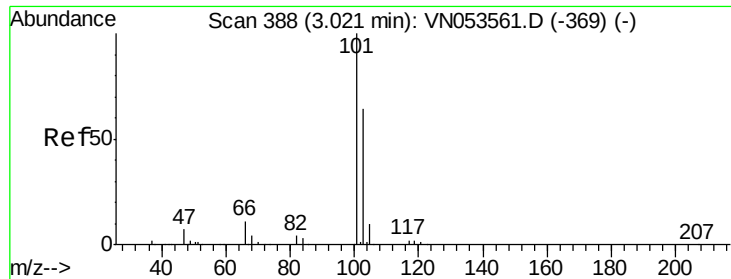
Tgt Ion: 64 Resp: 225652

Ion Ratio Lower Upper

64 100

66 31.6 25.1 37.7





#7

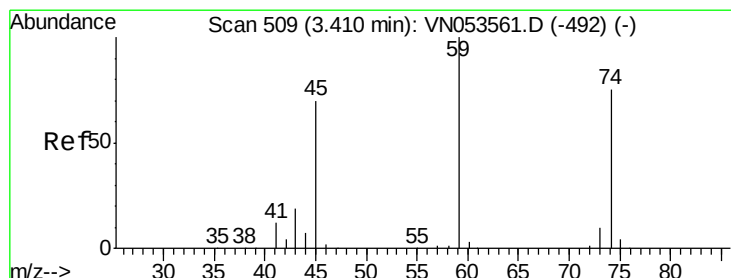
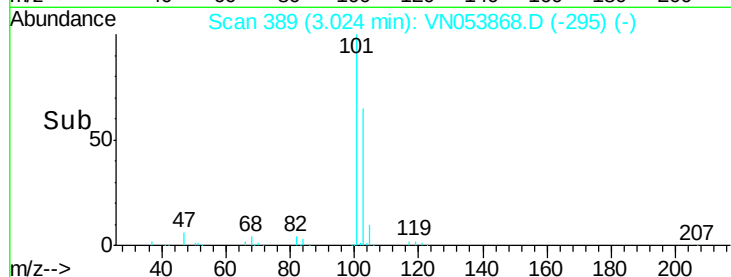
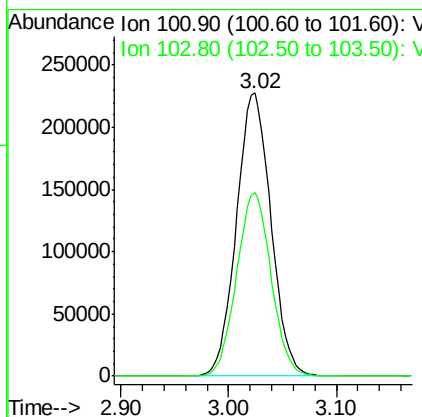
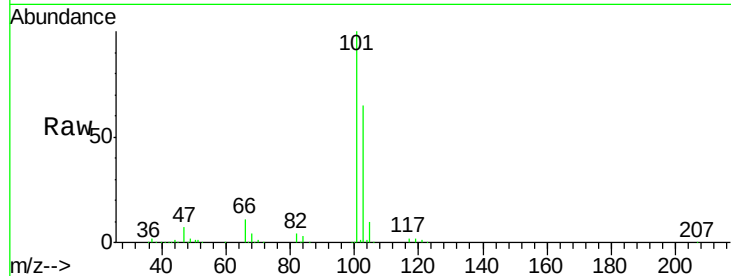
Trichlorofluoromethane
 Concen: 50.576 ug/l
 RT: 3.02 min Scan# 389
 Delta R.T. 0.00 min
 Lab File: VN053868.D
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Tot Ion	Ratio	Lower	Upper
101	100		
103	65.0	51.6	77.4

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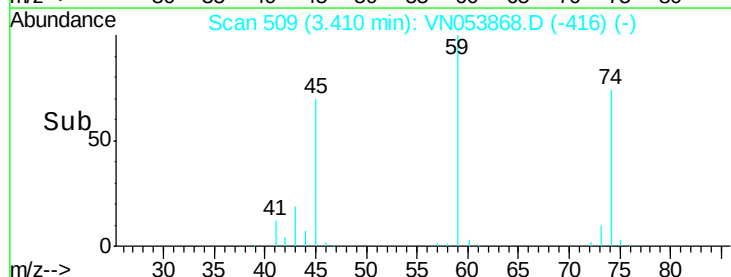
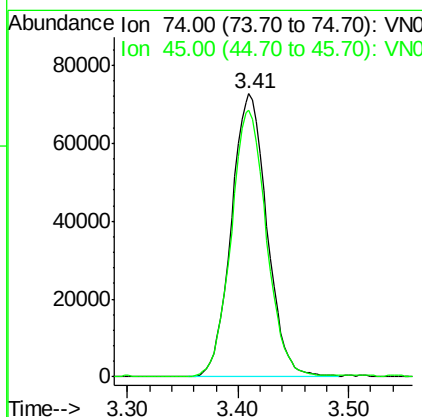
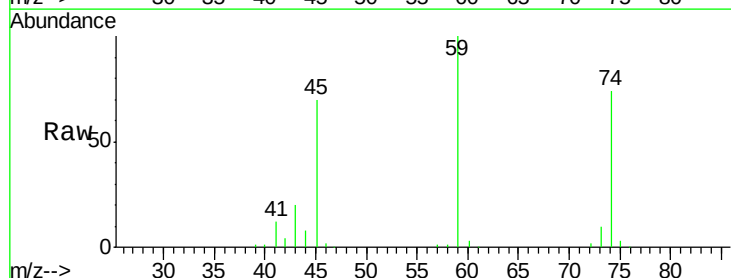
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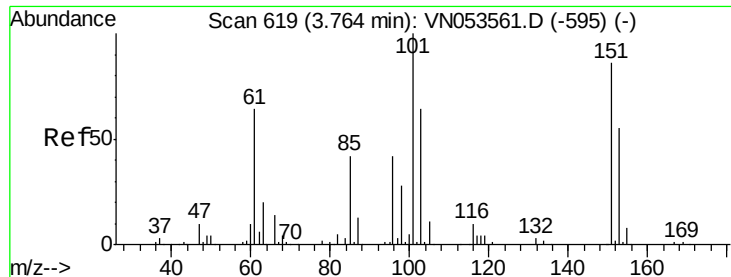


#8

Diethyl Ether
 Concen: 44.296 ug/l
 RT: 3.41 min Scan# 509
 Delta R.T. 0.00 min
 Lab File: VN053868.D
 Acq: 19 Feb 2019 15:52

Tgt Ion	Ratio	Lower	Upper
74	100		
45	93.9	47.9	143.7





#9

1,1,2-Trichlorotrifluoroethane

Concen: 49.493 ug/l

RT: 3.76 min Scan# 619

Delta R.T. 0.00 min

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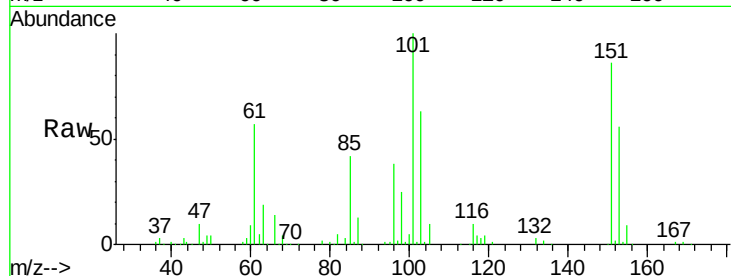
ClientSampleId :

VSTDCCC050EC

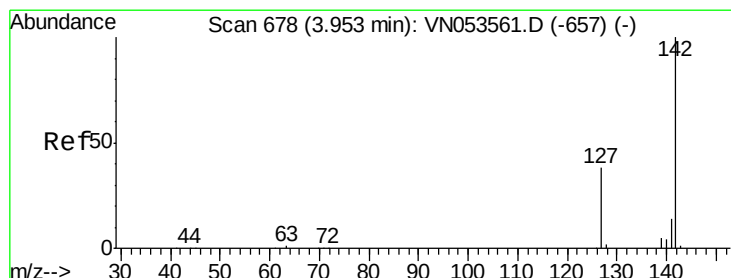
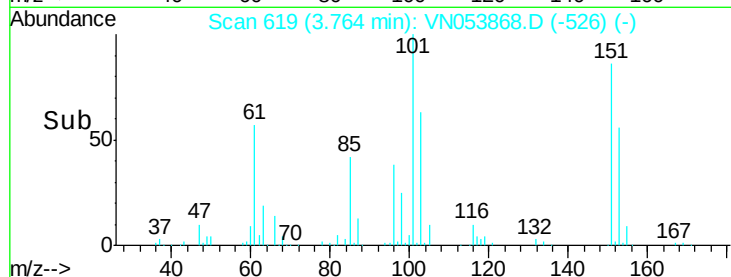
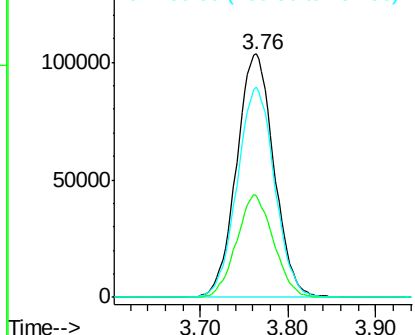
Tot Ion:	101	Resp:	307115
Ion Ratio	Lower	Upper	
101	100		
85	41.4	32.8	49.2
151	86.4	66.9	100.3

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



#10

Methyl Iodide

Concen: 44.423 ug/l

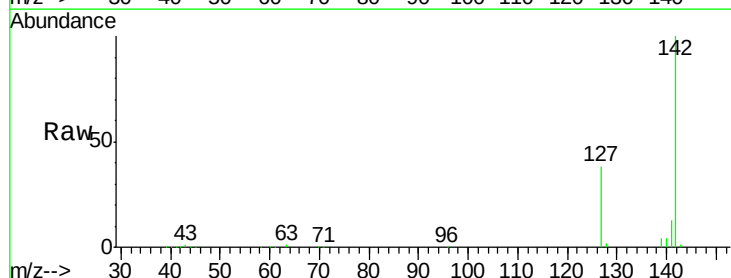
RT: 3.95 min Scan# 678

Delta R.T. 0.00 min

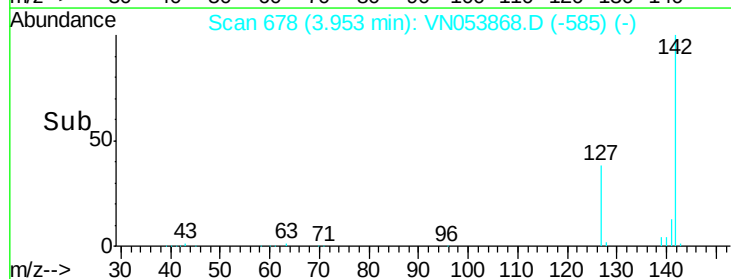
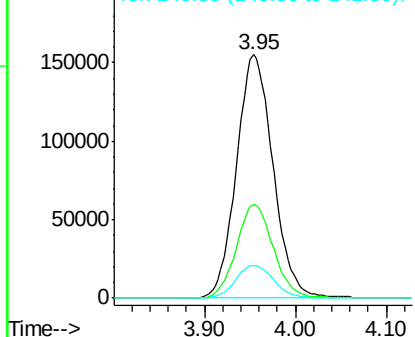
Lab File: VN053868.D

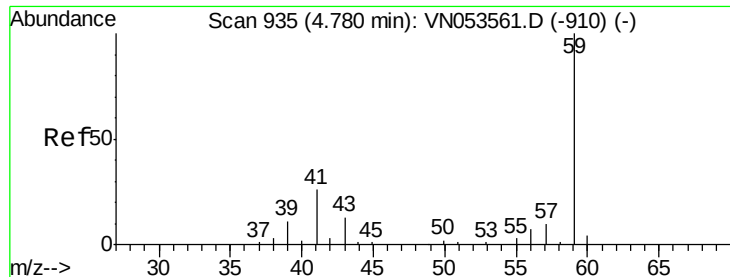
Acq: 19 Feb 2019 15:52

Tgt Ion:	142	Resp:	432654
Ion Ratio	Lower	Upper	
142	100		
127	38.8	31.0	46.4
141	13.9	11.1	16.7



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





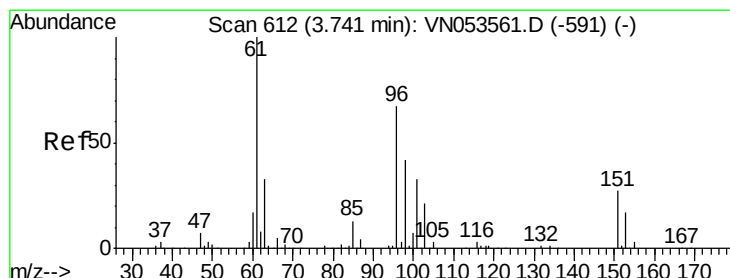
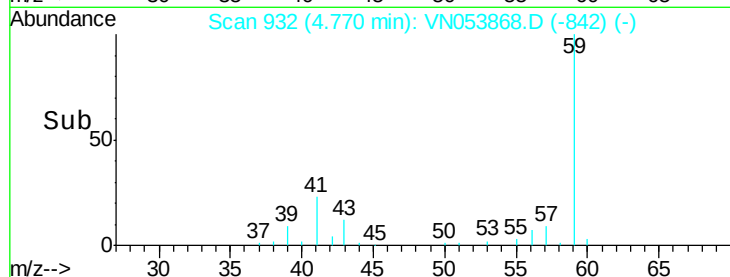
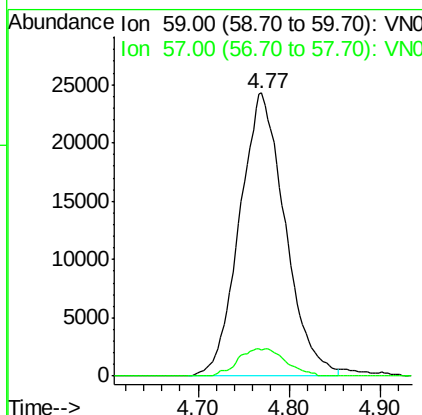
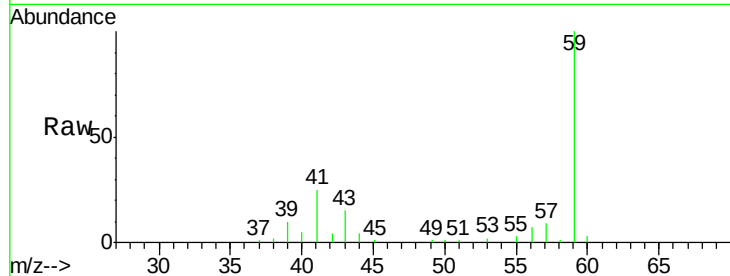
#11
Tert butyl alcohol
Concen: 220.771 ug/l
RT: 4.77 min Scan# 932
Delta R.T. -0.01 min
Lab File: VN053868.D
Acq: 19 Feb 2019 15:52

Instrument :
MSVOA_N
ClientSampleId :
VSTDCCC050EC

Tot Ion	Ratio	Resp	Lower	Upper
59	100	84151		
57	10.1		8.2	12.4

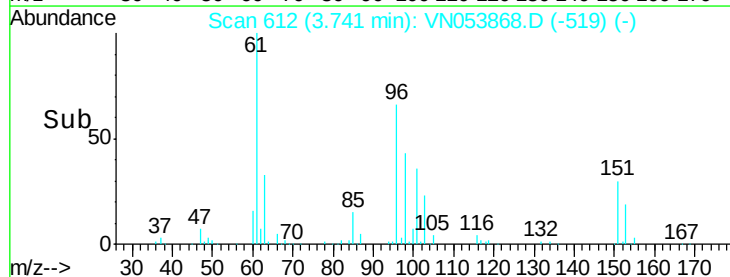
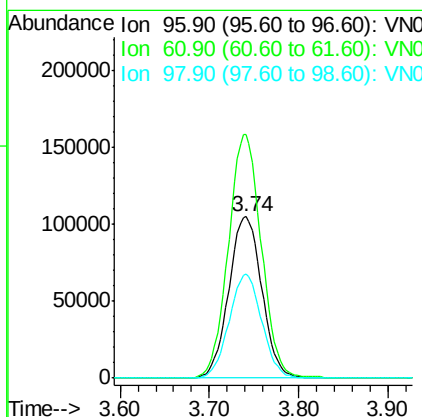
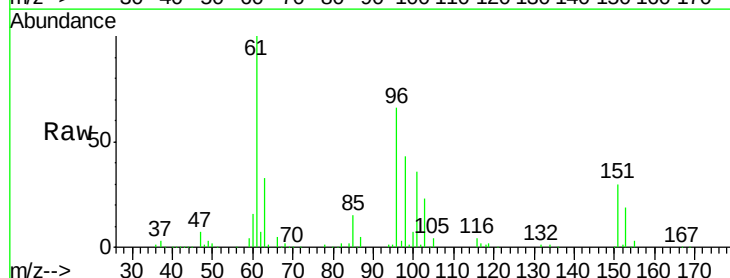
Manual Integrations
APPROVED

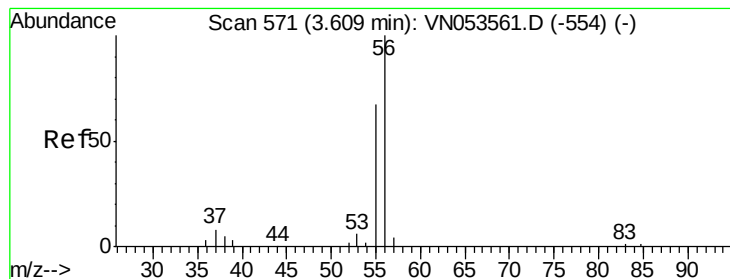
MMDadoda
2/20/2019 10:15:04 AM



#12
1,1-Dichloroethene
Concen: 45.502 ug/l
RT: 3.74 min Scan# 612
Delta R.T. 0.00 min
Lab File: VN053868.D
Acq: 19 Feb 2019 15:52

Tgt Ion	Ratio	Resp	Lower	Upper
96	100	270513		
61	151.0		122.9	184.3
98	64.5		49.4	74.0





#13

Acrolein

Concen: 232.164 ug/l

RT: 3.61 min Scan# 570

Delta R.T. -0.00 min

Lab File: VN053868.D

Acq: 19 Feb 2019 15:52

Instrument :

MSVOA_N

ClientSampleId :

VSTDCCC050EC

Tot Ion: 56 Resp: 48181

Ion Ratio Lower Upper

56 100

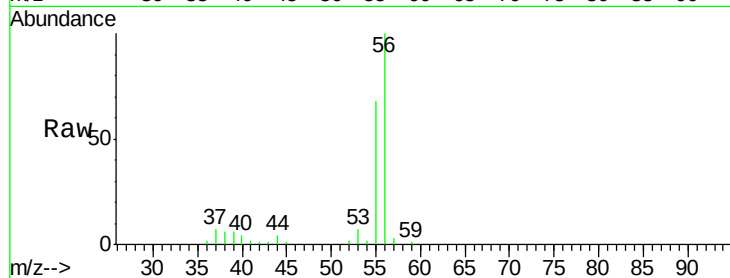
55 69.0 57.4 86.0

Manual Integrations

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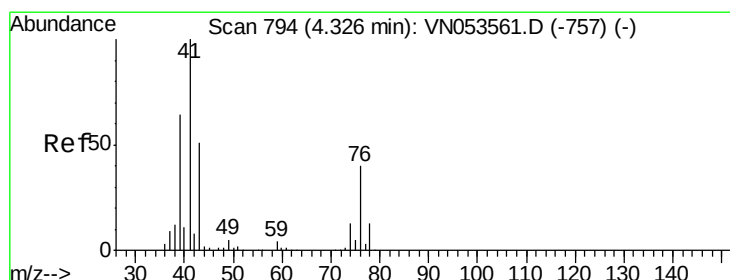
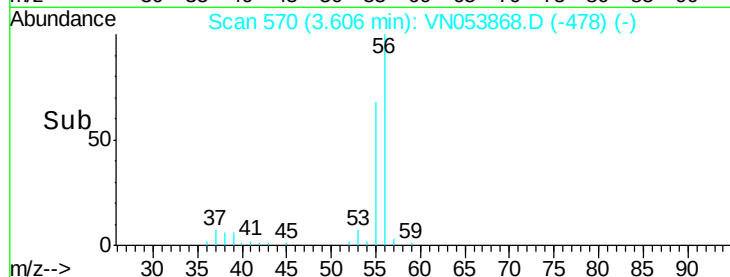
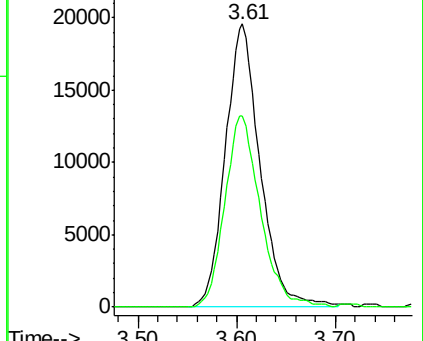
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Abundance Ion 56.00 (55.70 to 56.70): VN0

Ion 55.00 (54.70 to 55.70): VN0



#14

Allyl chloride

Concen: 42.464 ug/l

RT: 4.32 min Scan# 793

Delta R.T. -0.00 min

Lab File: VN053868.D

Acq: 19 Feb 2019 15:52

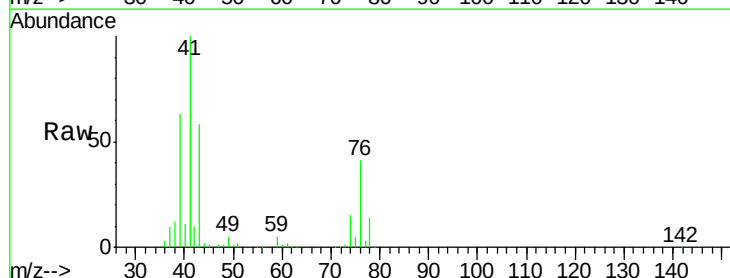
Tgt Ion: 41 Resp: 401964

Ion Ratio Lower Upper

41 100

39 64.7 48.9 73.3

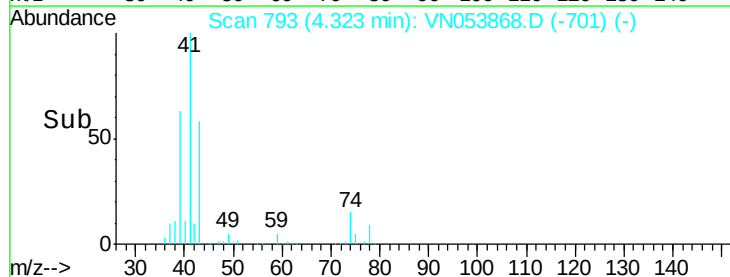
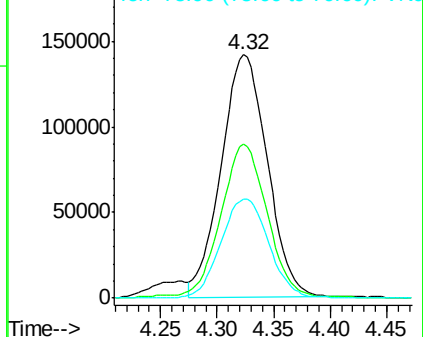
76 41.9 29.4 44.2

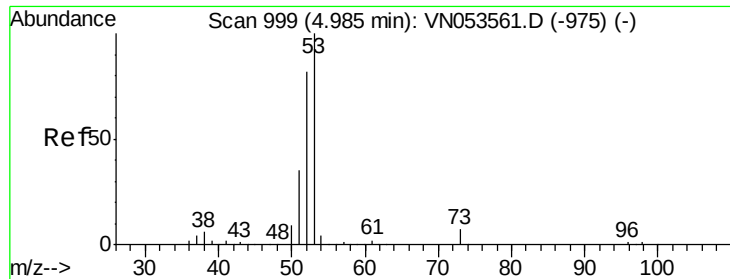


Abundance Ion 41.00 (40.70 to 41.70): VN0

Ion 39.00 (38.70 to 39.70): VN0

Ion 75.90 (75.60 to 76.60): VN0





#15

Acrylonitrile

Concen: 229.023 ug/l

RT: 4.98 min Scan# 998

Delta R.T. -0.00 min

Lab File: VN053868.D

Acq: 19 Feb 2019 15:52

Instrument :

MSVOA_N

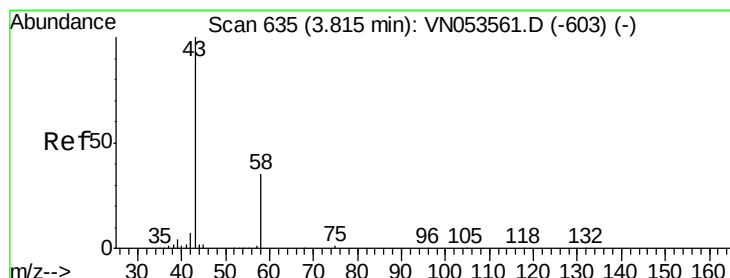
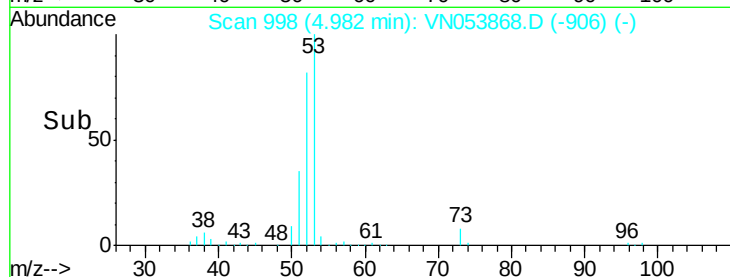
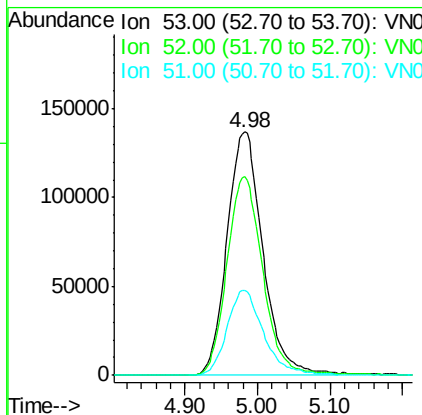
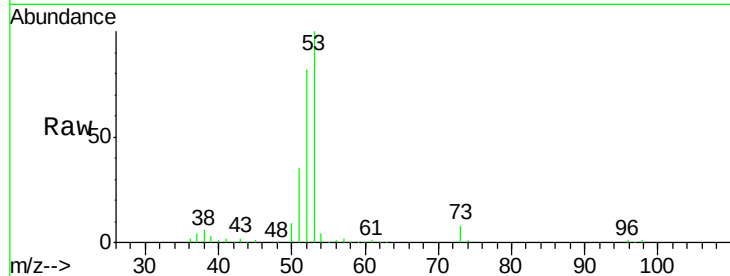
ClientSampleId :

VSTDCCC050EC

Tot Ion:	53	Resp:	471270
Ion	Ratio	Lower	Upper
53	100		
52	80.8	66.0	99.0
51	35.7	28.3	42.5

Manual Integrations
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#16

Acetone

Concen: 246.161 ug/l

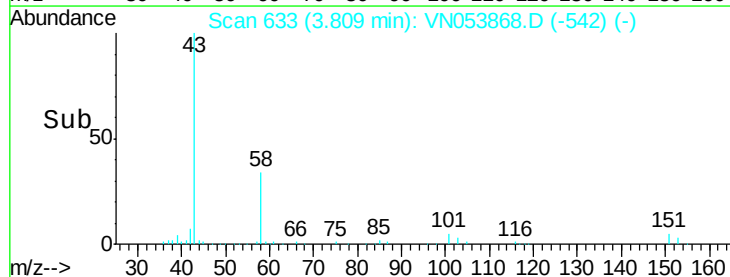
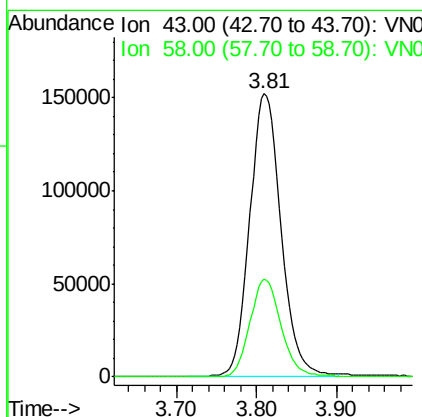
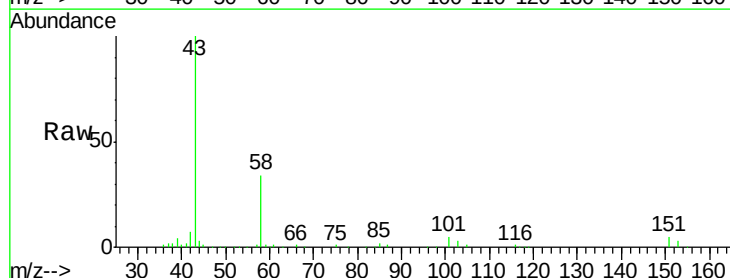
RT: 3.81 min Scan# 633

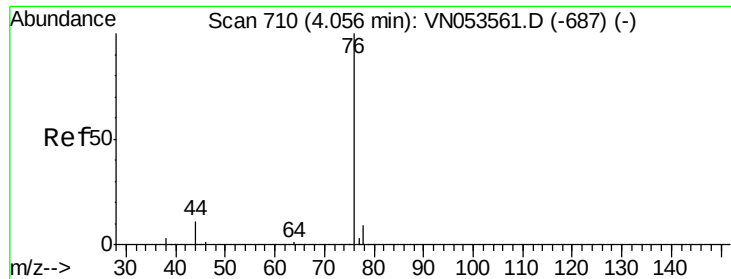
Delta R.T. -0.01 min

Lab File: VN053868.D

Acq: 19 Feb 2019 15:52

Tgt Ion:	43	Resp:	406663
Ion	Ratio	Lower	Upper
43	100		
58	34.4	27.1	40.7





#17

Carbon Disulfide

Concen: 37.599 ug/l

RT: 4.06 min Scan# 710

Delta R.T. 0.00 min

Lab File: VN053868.D

Acq: 19 Feb 2019 15:52

Instrument :

MSVOA_N

ClientSampleId :

VSTDCCC050EC

Tot Ion: 76 Resp: 696028

Ion Ratio Lower Upper

76 100

78 9.4

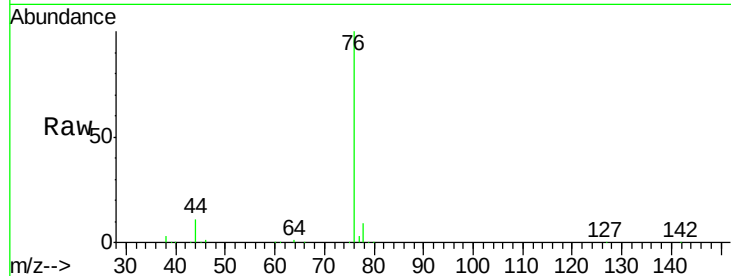
7.3 10.9

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

4.06

250000

200000

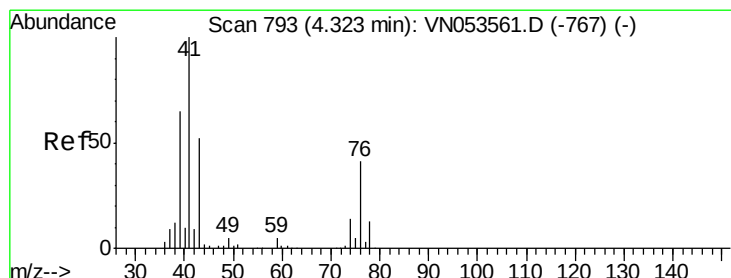
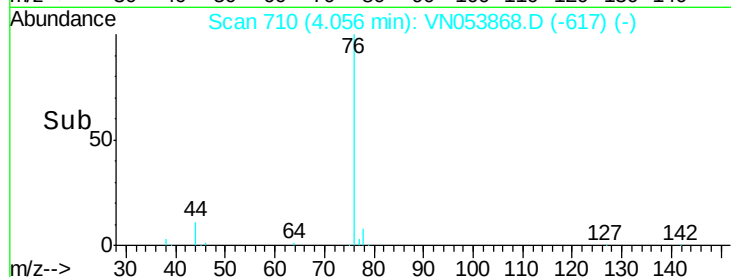
150000

100000

50000

0

Time-->



#18

Methyl Acetate

Concen: 50.983 ug/l

RT: 4.32 min Scan# 792

Delta R.T. -0.00 min

Lab File: VN053868.D

Acq: 19 Feb 2019 15:52

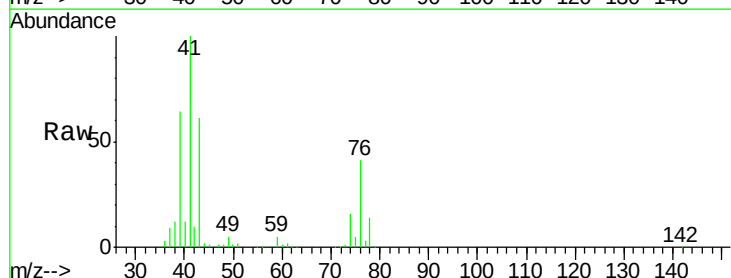
Tgt Ion: 43 Resp: 249433

Ion Ratio Lower Upper

43 100

74 25.5

19.4 29.2



Abundance Ion 43.00 (42.70 to 43.70): VN0

Ion 74.00 (73.70 to 74.70): VN0

4.32

100000

80000

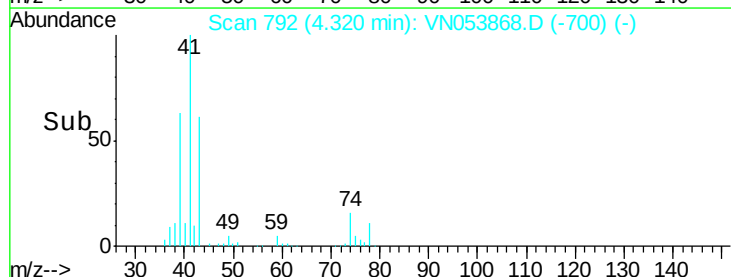
60000

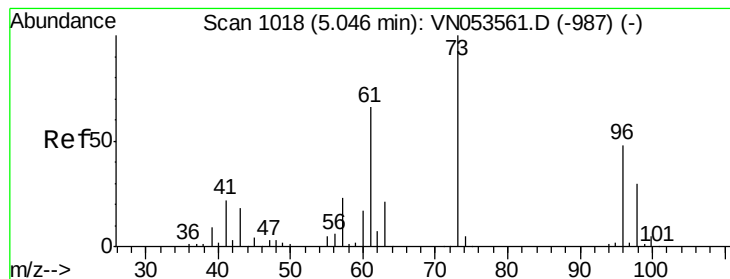
40000

20000

0

Time-->





#19

Methyl tert-butyl Ether

Concen: 48.448 ug/l

RT: 5.04 min Scan# 1016

Delta R.T. -0.01 min

Lab File: VN053868.D

Acq: 19 Feb 2019 15:52

Instrument :

MSVOA_N

ClientSampleId :

VSTDCCC050EC

Tot Ion: 73 Resp: 730171

Ion Ratio Lower Upper

73 100

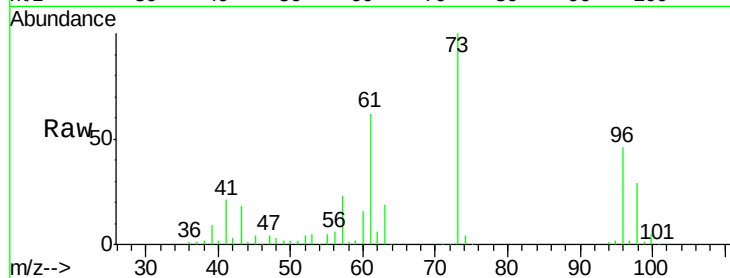
57 22.5 18.3 27.5

Manual Integrations

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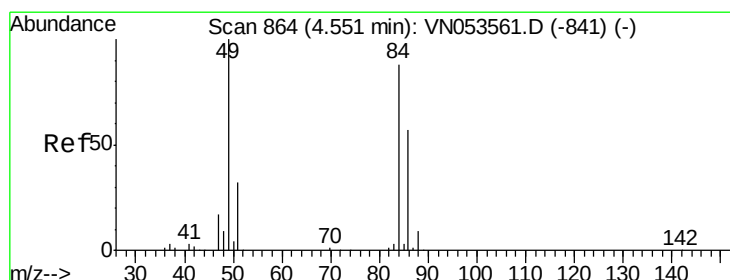
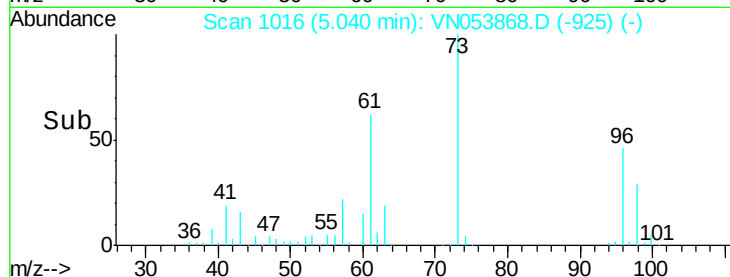
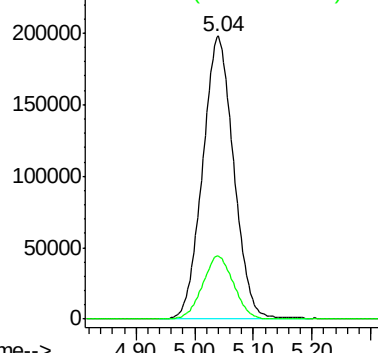
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2/20/2019 10:15:04 AM



Abundance Ion 73.00 (72.70 to 73.70): VN0

Ion 57.00 (56.70 to 57.70): VN0



#20

Methylene Chloride

Concen: 44.972 ug/l

RT: 4.55 min Scan# 864

Delta R.T. 0.00 min

Lab File: VN053868.D

Acq: 19 Feb 2019 15:52

Tgt Ion: 84 Resp: 311696

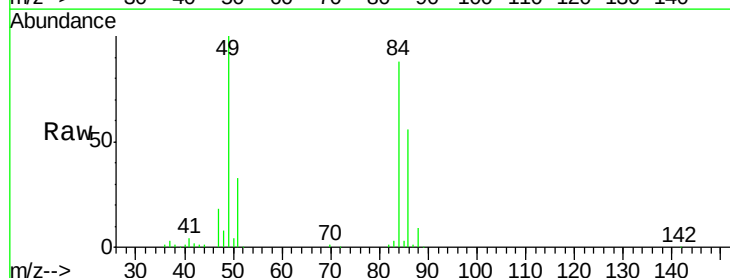
Ion Ratio Lower Upper

84 100

49 113.1 94.3 141.5

51 37.4 29.4 44.2

86 63.3 51.4 77.0

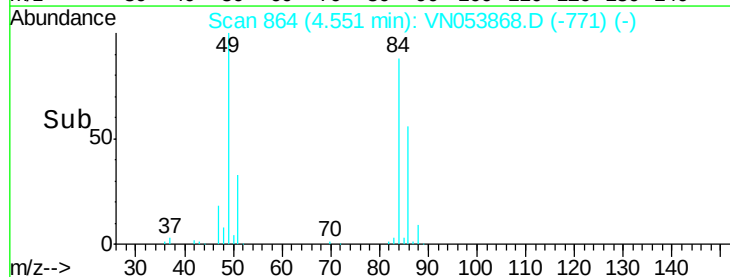
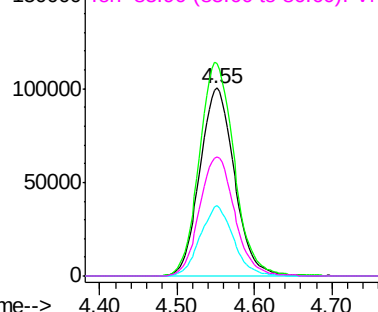


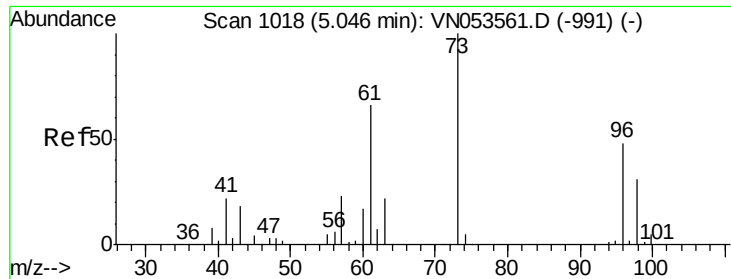
Abundance Ion 83.90 (83.60 to 84.60): VN0

Ion 48.90 (48.60 to 49.60): VN0

Ion 50.90 (50.60 to 51.60): VN0

Ion 85.90 (85.60 to 86.60): VN0





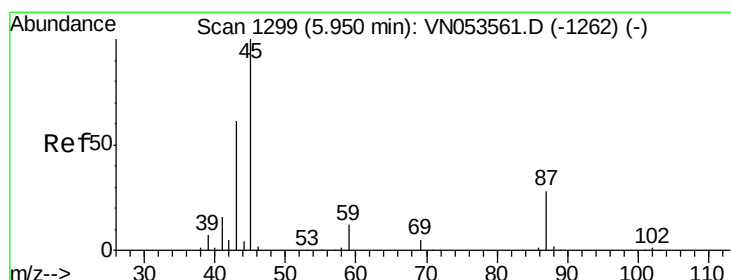
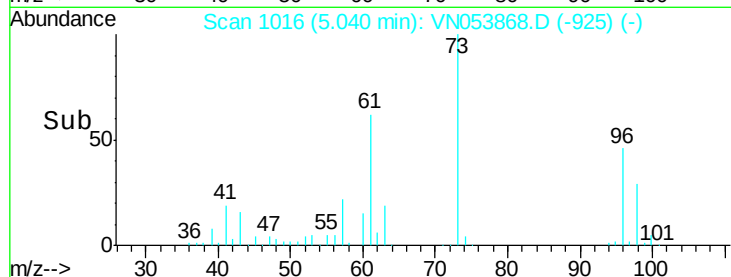
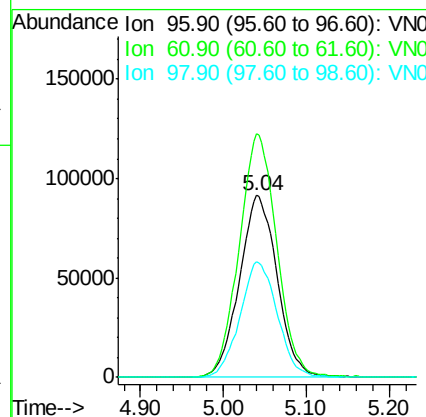
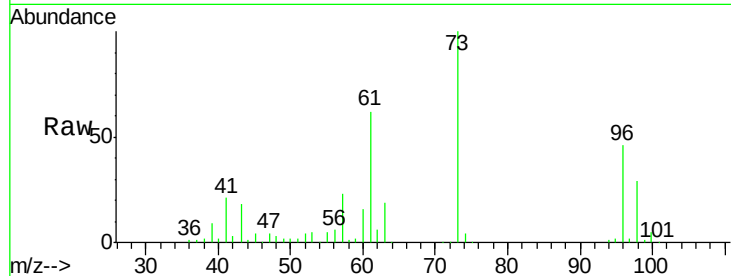
#21
trans-1,2-Dichloroethene
Concen: 45.098 ug/l
RT: 5.04 min Scan# 1016
Delta R.T. -0.01 min
Lab File: VN053868.D
Acq: 19 Feb 2019 15:52

Instrument :
MSVOA_N
ClientSampleId :
VSTDCCC050EC

Tot Ion	Ratio	Lower	Upper
96	100		
61	134.0	110.1	165.1
98	63.5	50.0	75.0

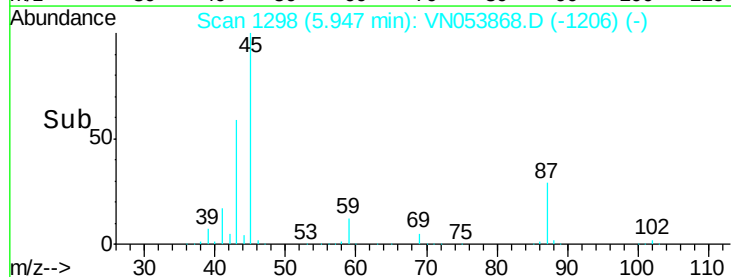
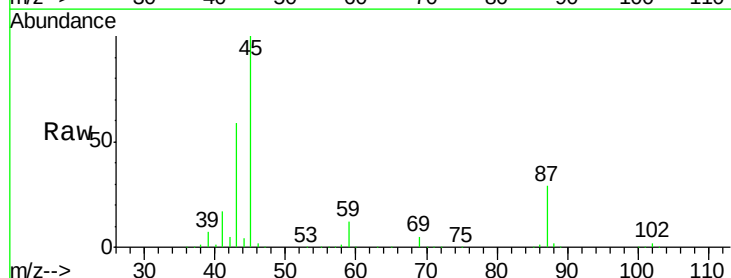
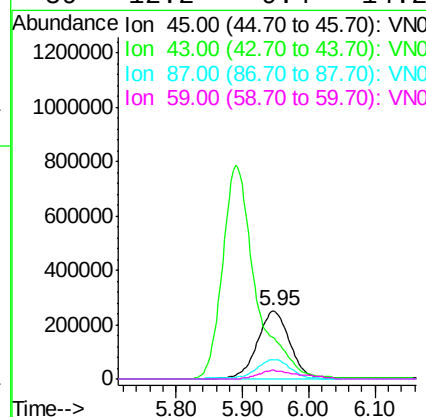
Manual Integrations
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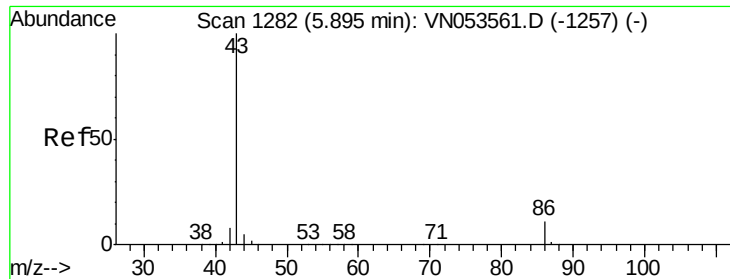
MMDadoda
2/20/2019 10:15:04 AM



#22
Diisopropyl ether
Concen: 49.154 ug/l
RT: 5.95 min Scan# 1298
Delta R.T. -0.00 min
Lab File: VN053868.D
Acq: 19 Feb 2019 15:52

Tgt Ion	Ratio	Lower	Upper
45	100		
43	58.6	44.2	66.4
87	28.3	22.7	34.1
59	12.2	9.4	14.2





#23

Vinyl Acetate

Concen: 226.034 ug/l

RT: 5.89 min Scan# 1280

Delta R.T. -0.01 min

Lab File: VN053868.D

Acq: 19 Feb 2019 15:52

Instrument :

MSVOA_N

ClientSampleId :

VSTDCCC050EC

Tot Ion: 43 Resp: 2742614

Ion Ratio Lower Upper

43 100

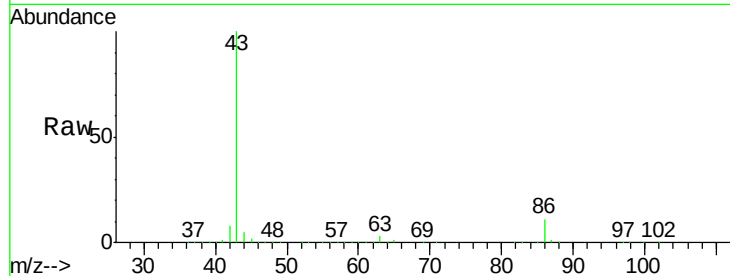
86 11.5 8.4 12.6

Manual Integrations

APPROVED

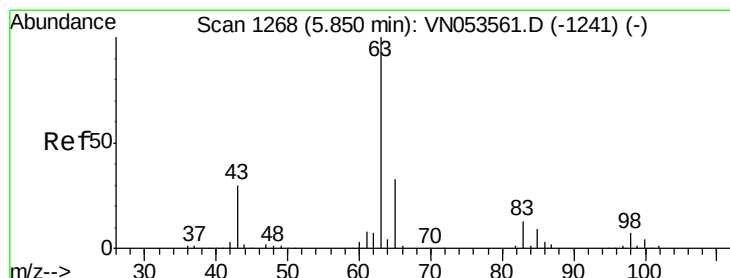
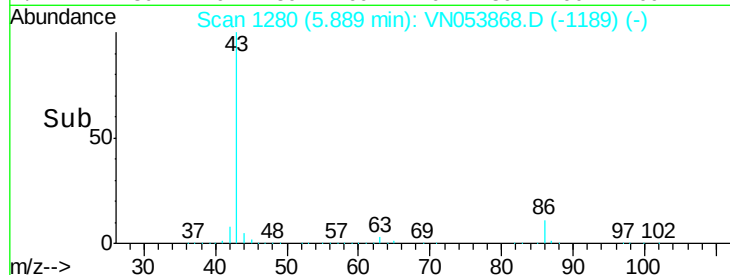
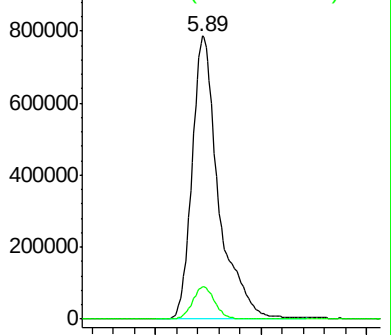
MMDadoda

2/20/2019 10:15:04 AM



Abundance Ion 43.00 (42.70 to 43.70): VN0

Ion 86.00 (85.70 to 86.70): VN0



#24

1,1-Dichloroethane

Concen: 46.940 ug/l

RT: 5.85 min Scan# 1267

Delta R.T. -0.00 min

Lab File: VN053868.D

Acq: 19 Feb 2019 15:52

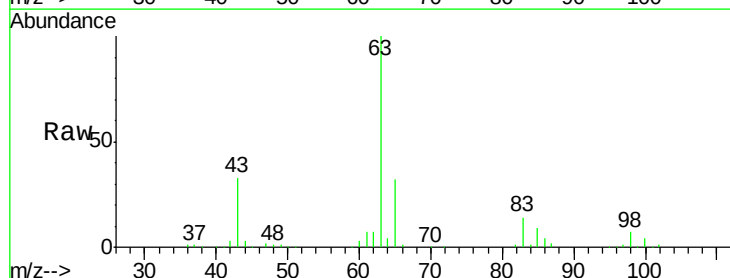
Tgt Ion: 63 Resp: 549135

Ion Ratio Lower Upper

63 100

98 6.9 3.3 9.9

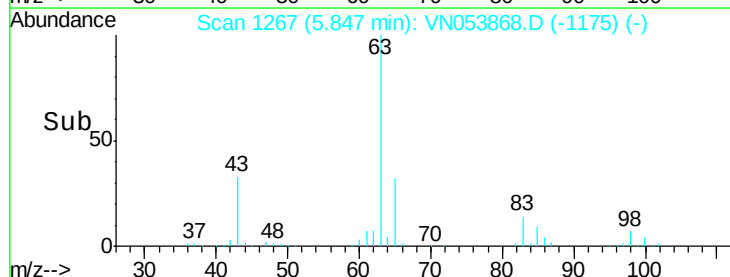
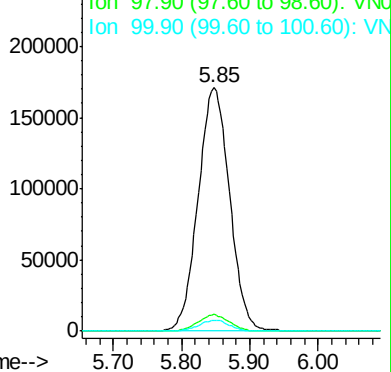
100 4.3 2.1 6.5

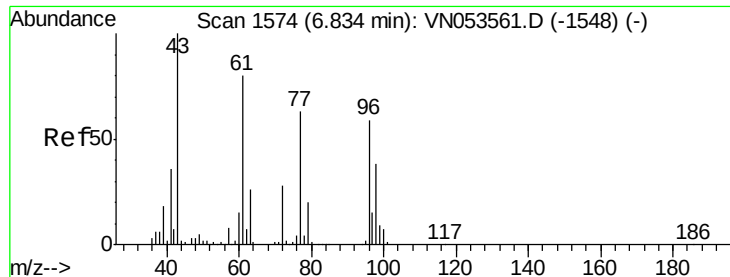


Abundance Ion 62.90 (62.60 to 63.60): VN0

Ion 97.90 (97.60 to 98.60): VN0

Ion 99.90 (99.60 to 100.60): VN0





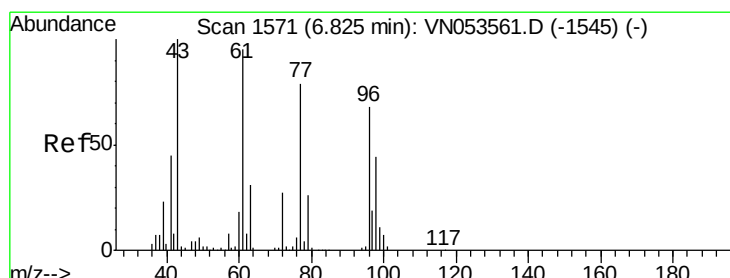
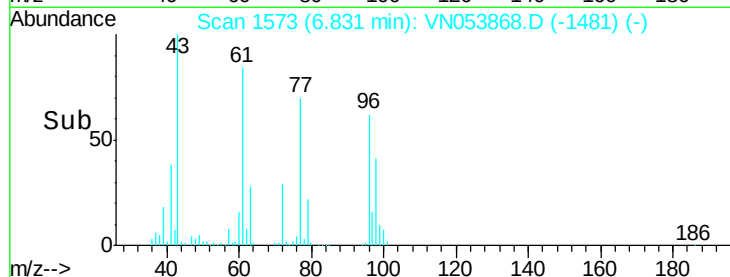
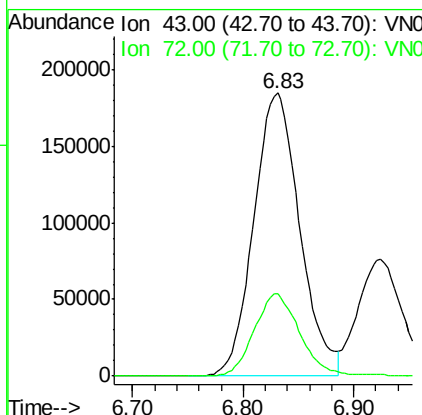
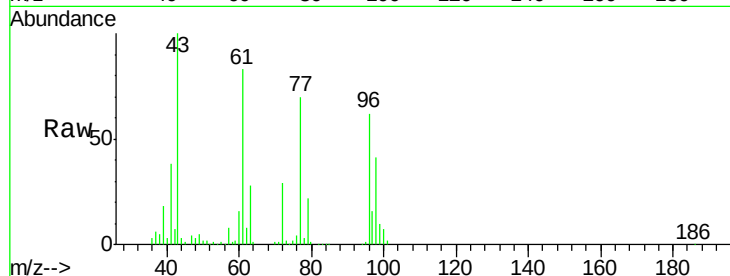
#25
2-Butanone
Concen: 225.699 ug/l
RT: 6.83 min Scan# 1573
Delta R.T. -0.00 min
Lab File: VN053868.D
Acq: 19 Feb 2019 15:52

Instrument :
MSVOA_N
ClientSampleId :
VSTDCCC050EC

Tot Ion: 43 Resp: 531778
Ion Ratio Lower Upper
43 100
72 29.1 22.0 33.0

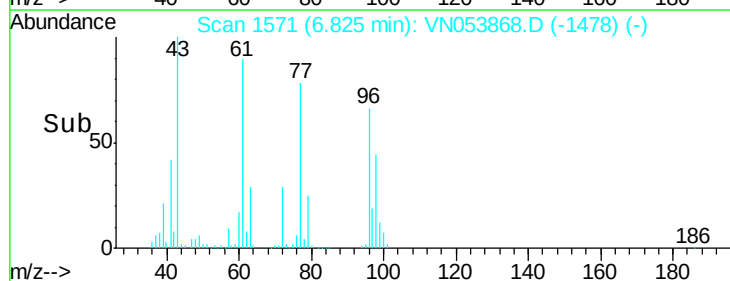
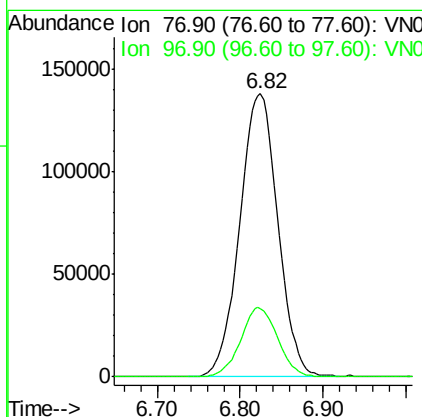
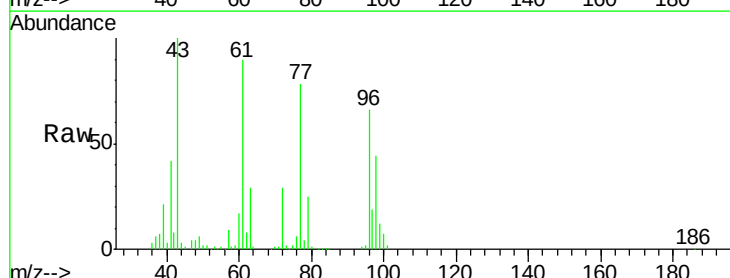
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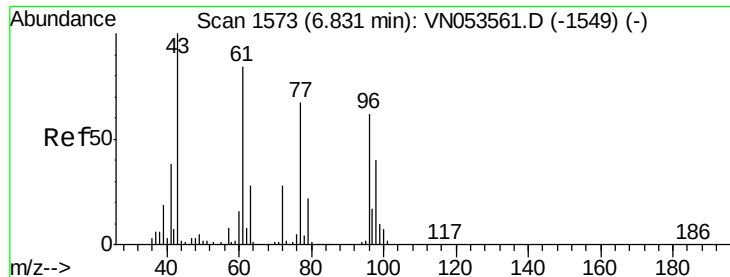
MMDadoda
2/20/2019 10:15:04 AM



#26
2,2-Dichloropropane
Concen: 49.411 ug/l
RT: 6.82 min Scan# 1571
Delta R.T. 0.00 min
Lab File: VN053868.D
Acq: 19 Feb 2019 15:52

Tgt Ion: 77 Resp: 441258
Ion Ratio Lower Upper
77 100
97 23.8 12.2 36.6





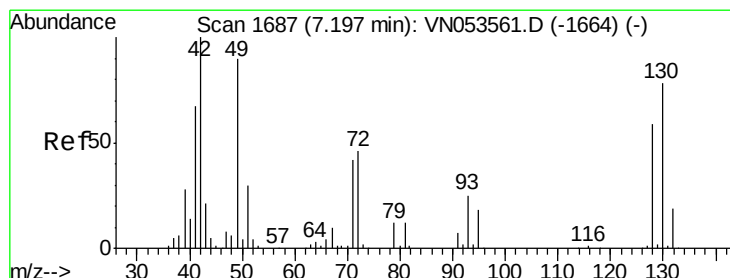
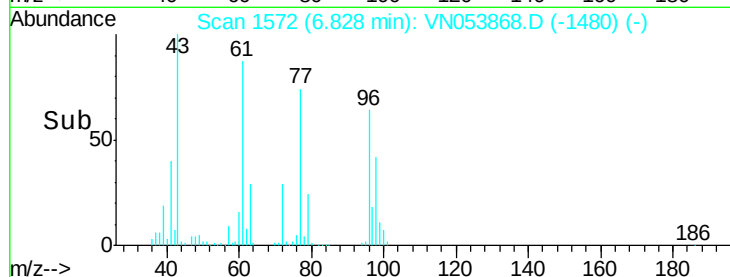
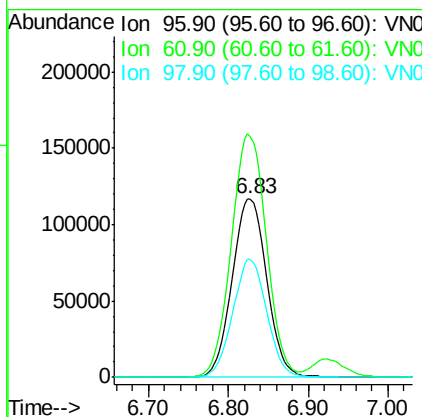
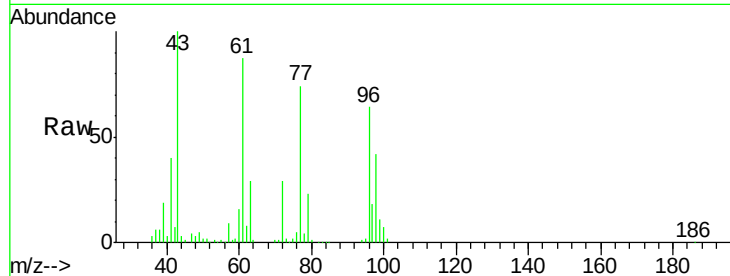
#27
 cis-1,2-Dichloroethene
 Concen: 48.142 ug/l
 RT: 6.83 min Scan# 1572
 Delta R.T. -0.00 min
 Lab File: VN053868.D
 Acq: 19 Feb 2019 15:52

Instrument :
 MSVOA_N
 ClientSampleId :
 VSTDCCC050EC

Tot Ion	Ratio	Resp	Lower	Upper
96	100			
61	138.2	0.0	283.8	
98	65.0	0.0	129.2	

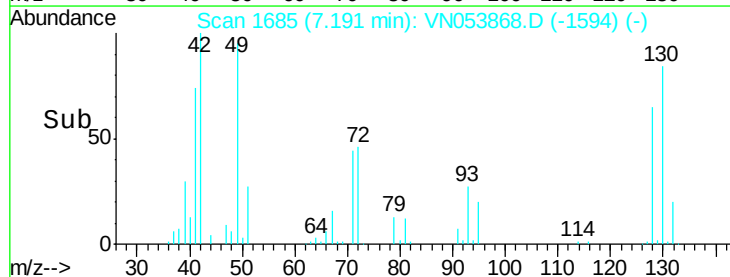
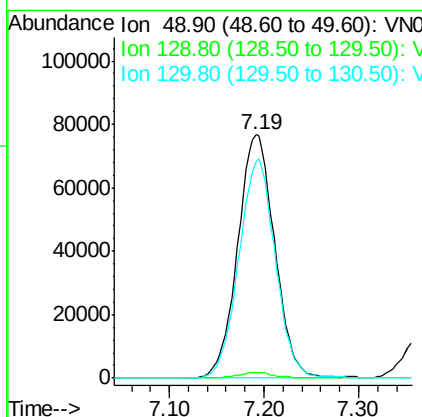
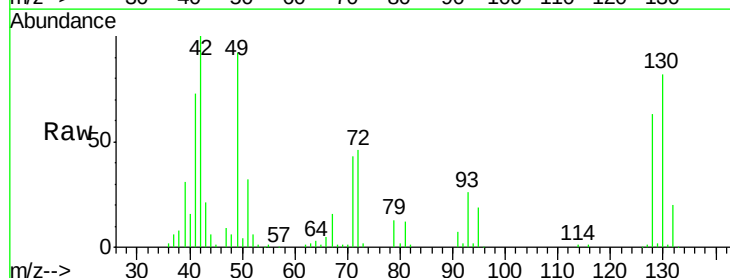
Manual Integrations
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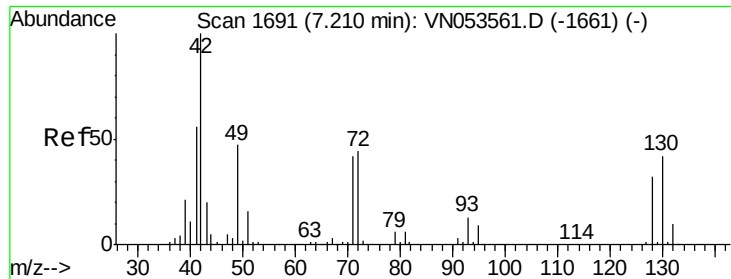
MMDadoda
 2/20/2019 10:15:04 AM



#28
 Bromochloromethane
 Concen: 40.999 ug/l
 RT: 7.19 min Scan# 1685
 Delta R.T. -0.01 min
 Lab File: VN053868.D
 Acq: 19 Feb 2019 15:52

Tgt Ion	Ratio	Resp	Lower	Upper
49	100			
129	2.2	0.0	4.0	
130	89.1	66.3	99.5	





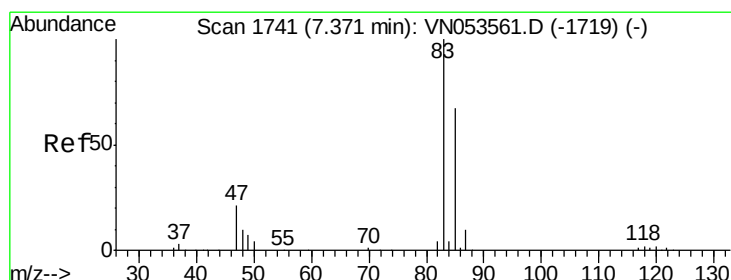
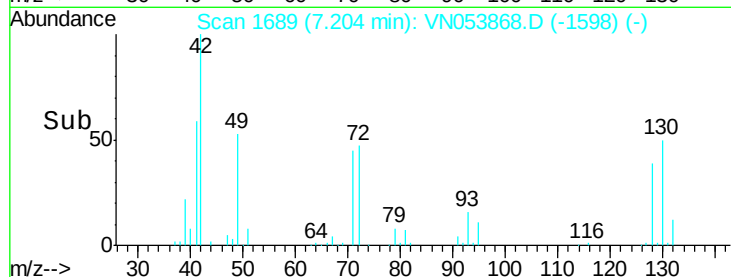
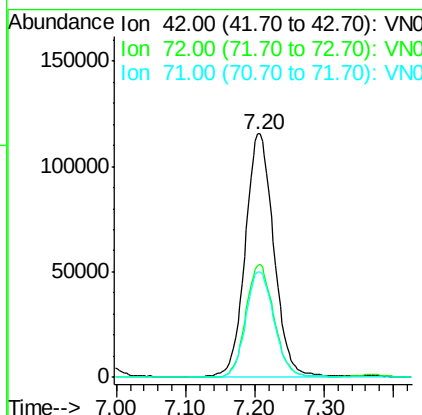
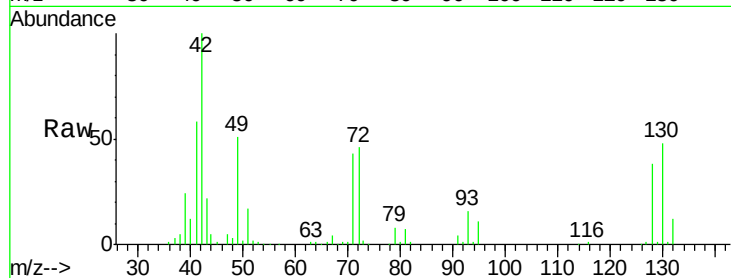
#29
Tetrahydrofuran
Concen: 217.991 ug/l
RT: 7.20 min Scan# 1689
Delta R.T. -0.01 min
Lab File: VN053868.D
Acq: 19 Feb 2019 15:52

Instrument :
MSVOA_N
ClientSampleId :
VSTDCCC050EC

Tot Ion	Ratio	Lower	Upper
42	100		
72	45.3	35.2	52.8
71	43.2	33.0	49.4

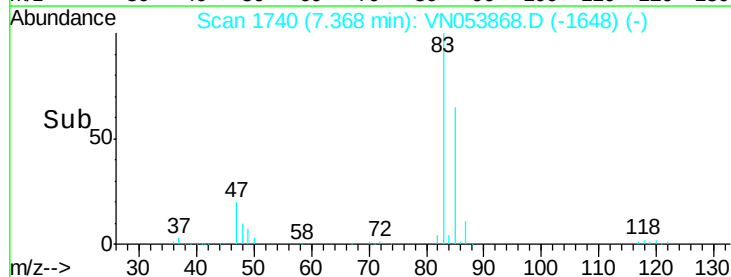
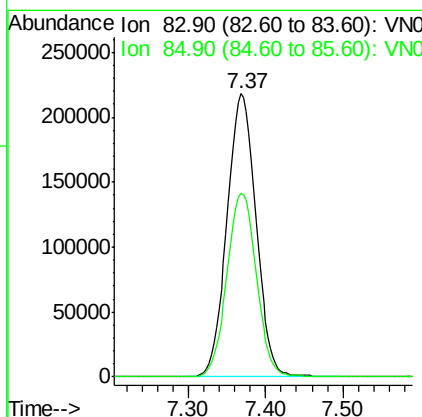
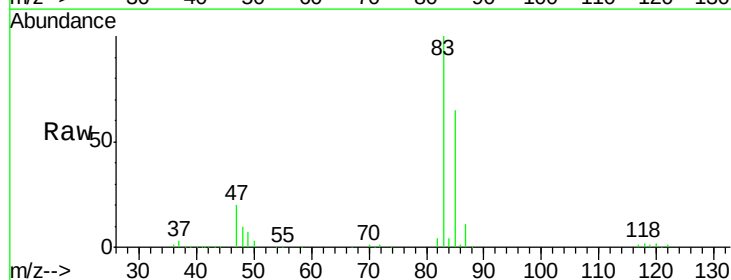
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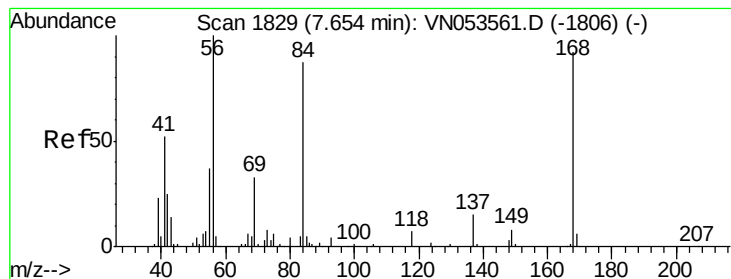
MMDadoda
2/20/2019 10:15:04 AM



#30
Chloroform
Concen: 48.928 ug/l
RT: 7.37 min Scan# 1740
Delta R.T. -0.00 min
Lab File: VN053868.D
Acq: 19 Feb 2019 15:52

Tgt Ion	Ratio	Lower	Upper
83	100		
85	64.7	52.2	78.2





#31

Cyclohexane

Concen: 43.767 ug/l

RT: 7.65 min Scan# 1828

Delta R.T. -0.00 min

Lab File: VN053868.D

Acq: 19 Feb 2019 15:52

Instrument :

MSVOA_N

ClientSampleId :

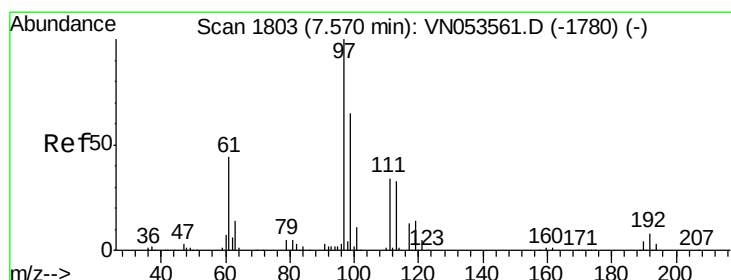
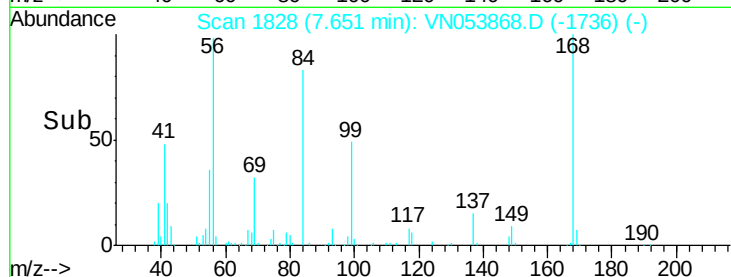
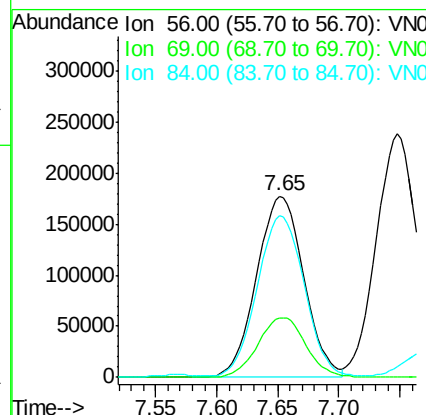
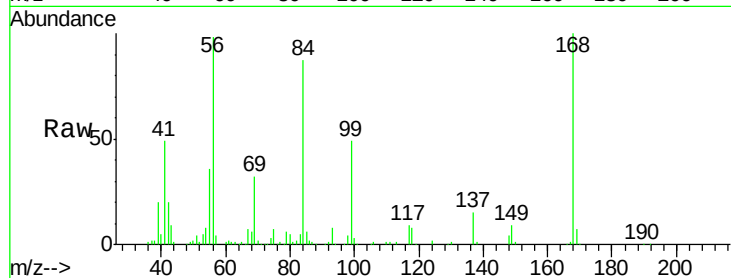
VSTDCCC050EC

Tot Ion: 56 Resp: 476937

Ion	Ratio	Lower	Upper
56	100		
69	32.9	26.4	39.6
84	87.9	67.9	101.9

Manual Integrations
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#32

1,1,1-Trichloroethane

Concen: 50.201 ug/l

RT: 7.57 min Scan# 1802

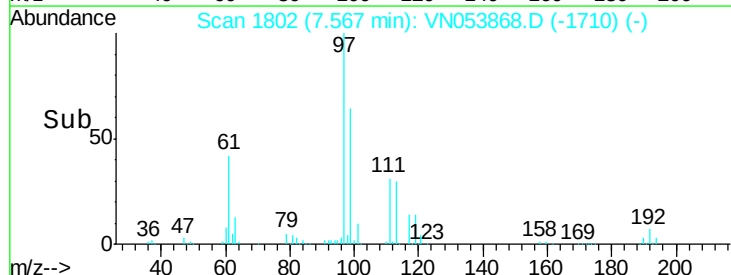
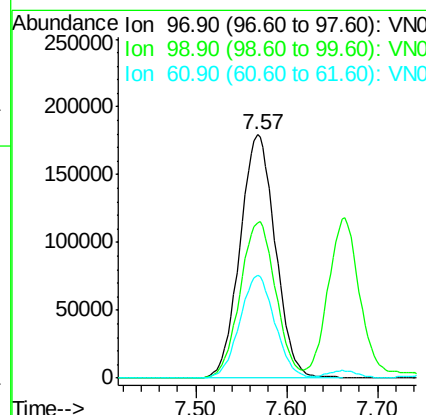
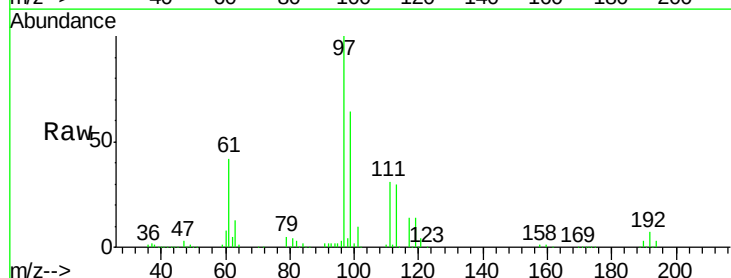
Delta R.T. -0.00 min

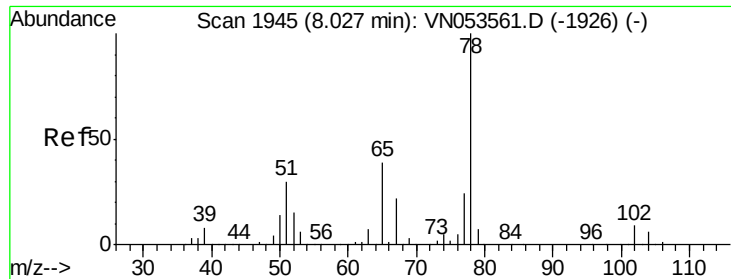
Lab File: VN053868.D

Acq: 19 Feb 2019 15:52

Tgt Ion: 97 Resp: 484494

Ion	Ratio	Lower	Upper
97	100		
99	64.8	52.0	78.0
61	41.8	34.4	51.6





#33

1,2-Dichloroethane-d4

Concen: 45.435 ug/l

RT: 8.02 min Scan# 1944

Delta R.T. -0.00 min

Lab File: VN053868.D

Acq: 19 Feb 2019 15:52

Instrument :

MSVOA_N

ClientSampleId :

VSTDCCC050EC

Tot Ion: 65 Resp: 292627

Ion Ratio Lower Upper

65 100

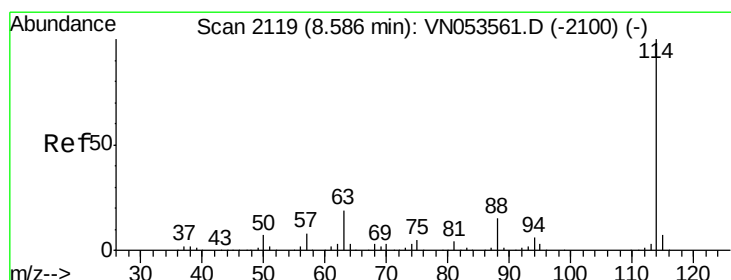
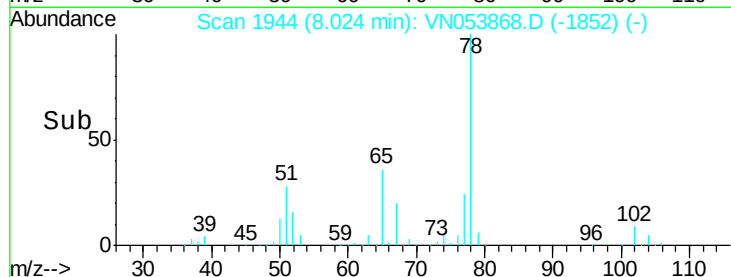
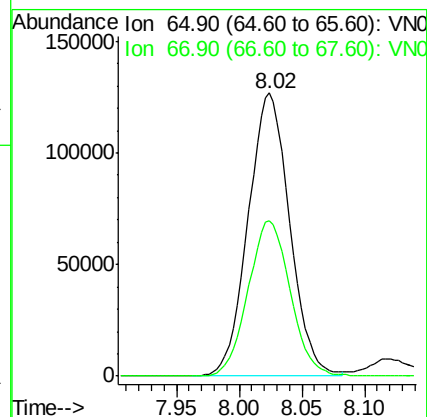
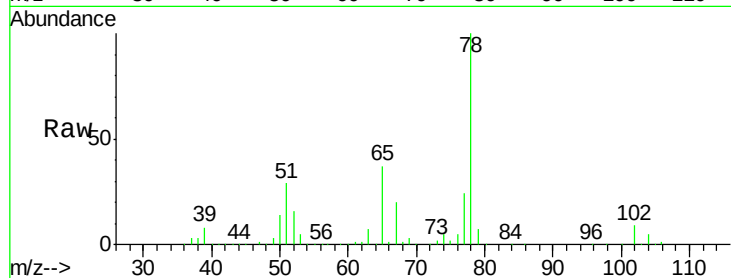
67 55.7 0.0 111.2

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#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 8.58 min Scan# 2118

Delta R.T. -0.00 min

Lab File: VN053868.D

Acq: 19 Feb 2019 15:52

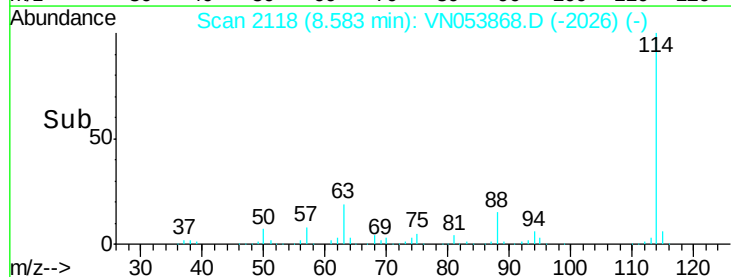
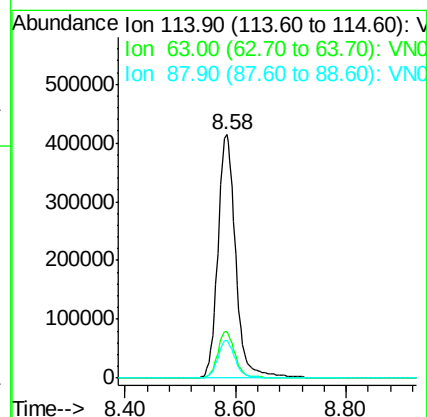
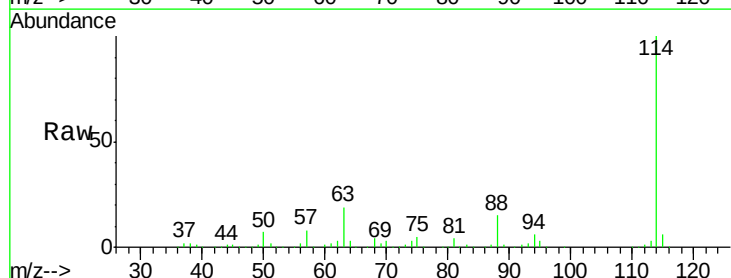
Tgt Ion: 114 Resp: 922329

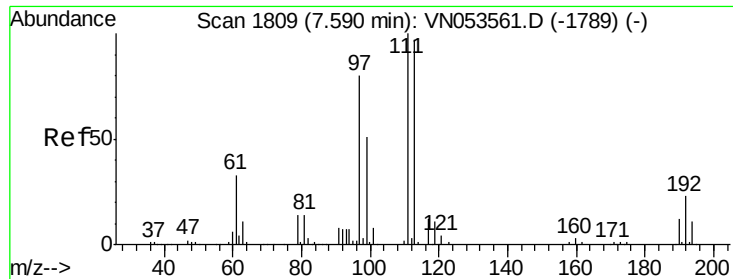
Ion Ratio Lower Upper

114 100

63 18.9 0.0 38.6

88 15.4 0.0 30.4





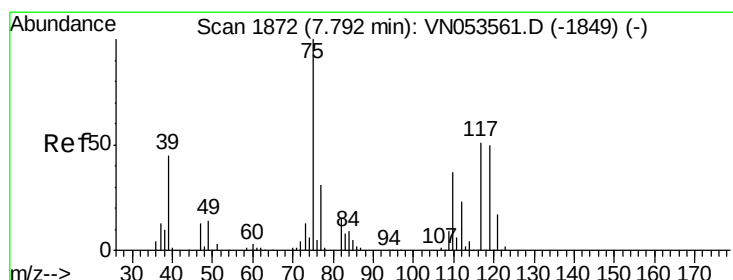
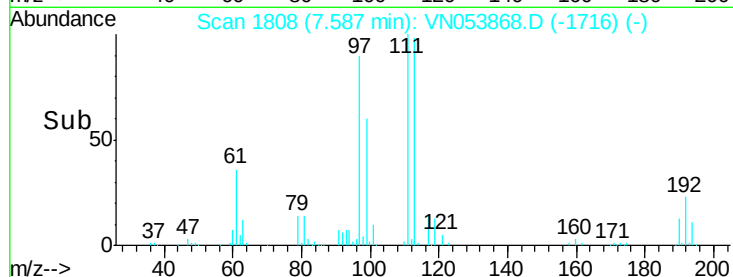
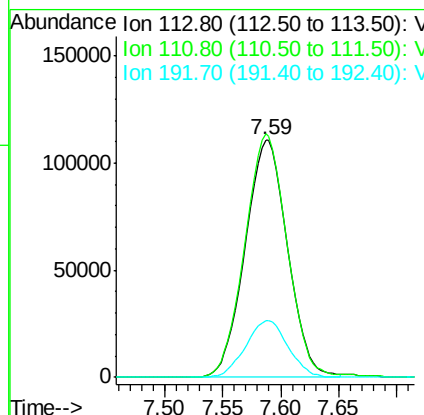
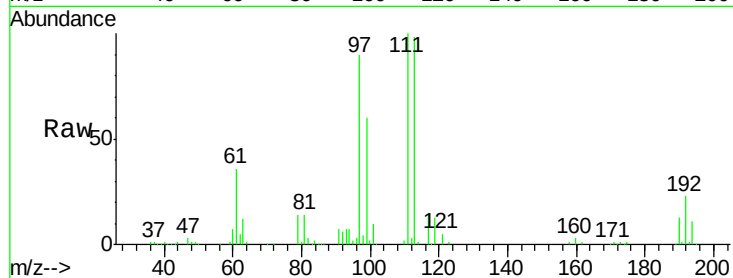
#35
Dibromofluoromethane
Concen: 48.268 ug/l
RT: 7.59 min Scan# 1808
Delta R.T. -0.00 min
Lab File: VN053868.D
Acq: 19 Feb 2019 15:52

Instrument :
MSVOA_N
ClientSampleId :
VSTDCCC050EC

Tot Ion	Ratio	Resp	Lower	Upper
113	100	281305		
111	102.8	81.1	121.7	
192	24.0	18.2	27.2	

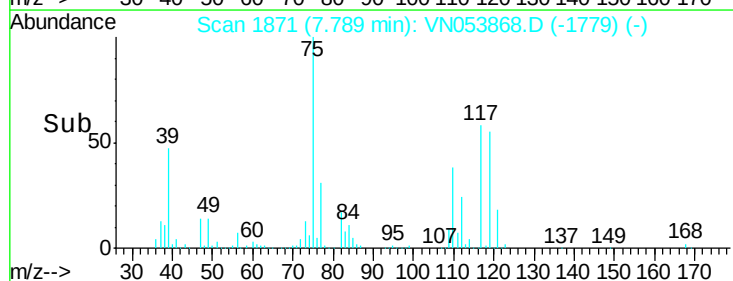
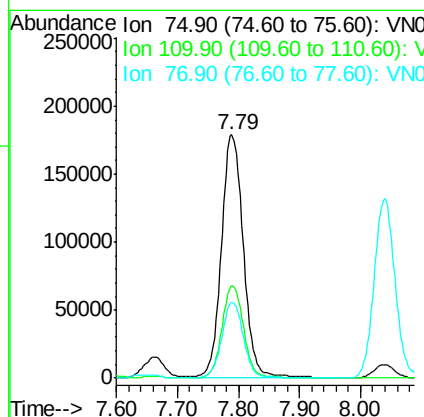
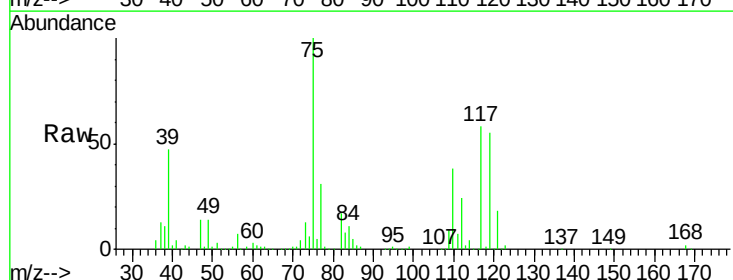
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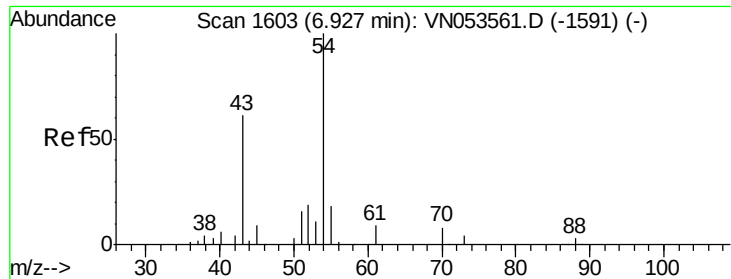
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#36
1,1-Dichloropropene
Concen: 53.696 ug/l
RT: 7.79 min Scan# 1871
Delta R.T. -0.00 min
Lab File: VN053868.D
Acq: 19 Feb 2019 15:52

Tgt Ion	Ratio	Resp	Lower	Upper
75	100	446443		
110	37.0	18.1	54.3	
77	30.9	25.1	37.7	





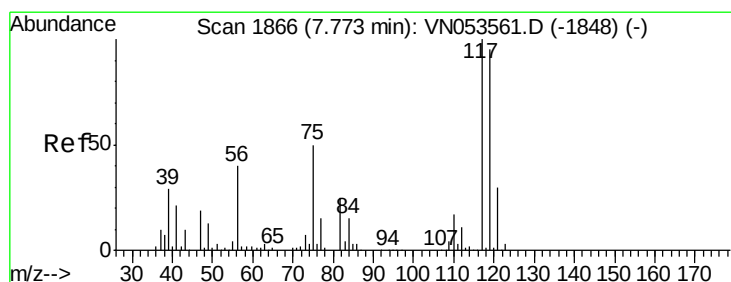
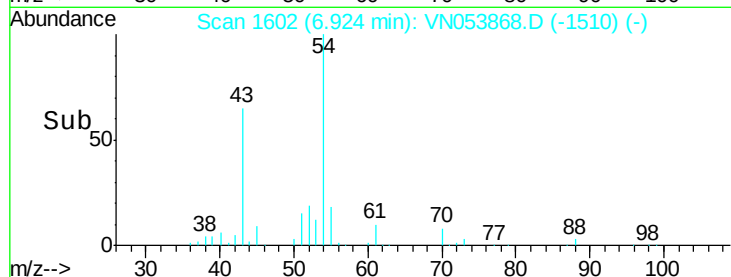
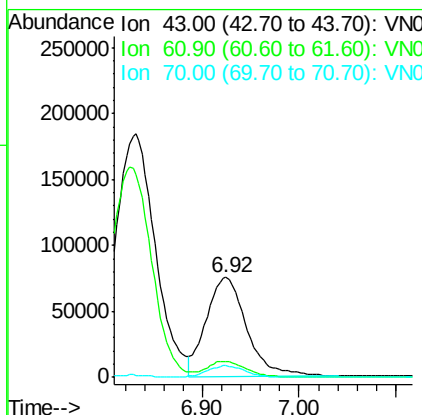
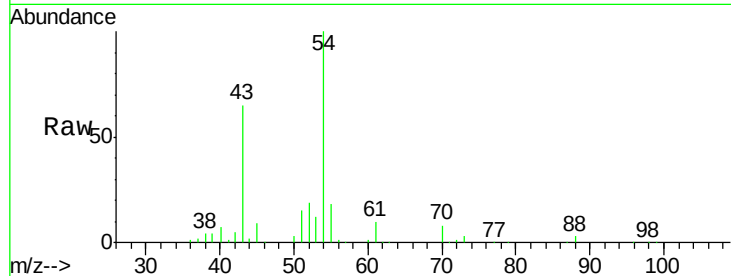
#37
Ethyl Acetate
Concen: 46.604 ug/l
RT: 6.92 min Scan# 1602
Delta R.T. -0.00 min
Lab File: VN053868.D
Acq: 19 Feb 2019 15:52

Instrument :
MSVOA_N
ClientSampled :
VSTDCCC050EC

Tot Ion	Ratio	Lower	Upper
43	100		
61	15.5	11.8	17.6
70	10.8	8.6	12.8

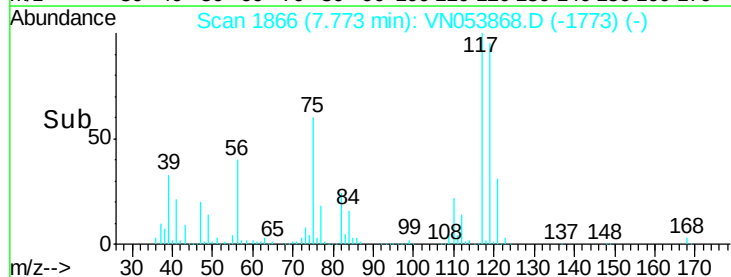
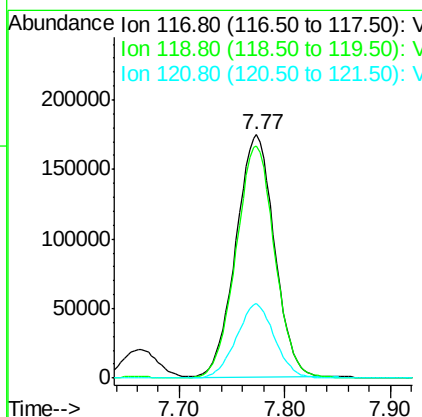
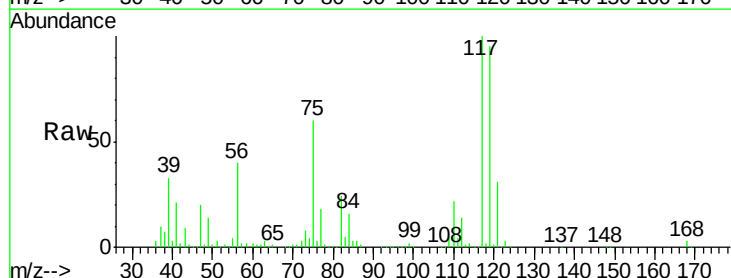
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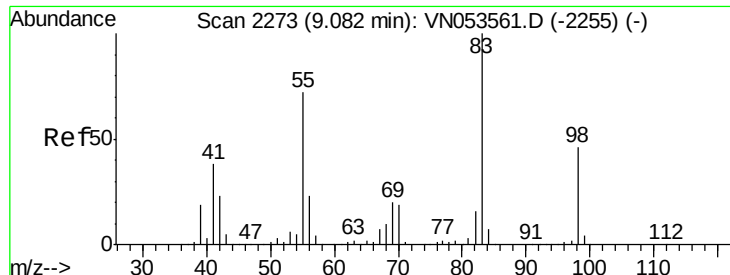
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#38
Carbon Tetrachloride
Concen: 52.791 ug/l
RT: 7.77 min Scan# 1866
Delta R.T. 0.00 min
Lab File: VN053868.D
Acq: 19 Feb 2019 15:52

Tgt Ion	Ratio	Lower	Upper
117	100		
119	95.8	77.2	115.8
121	30.9	24.6	37.0





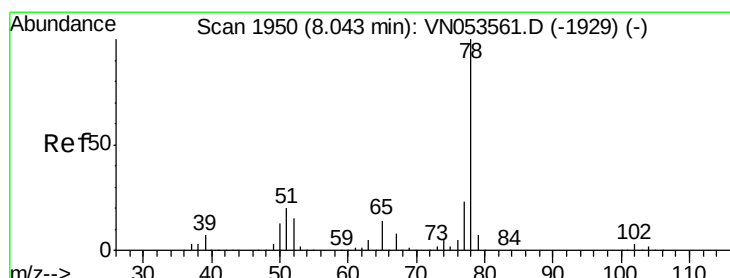
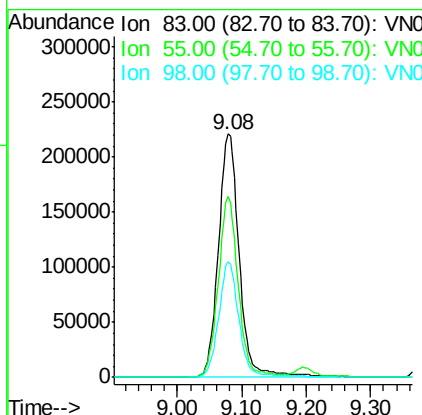
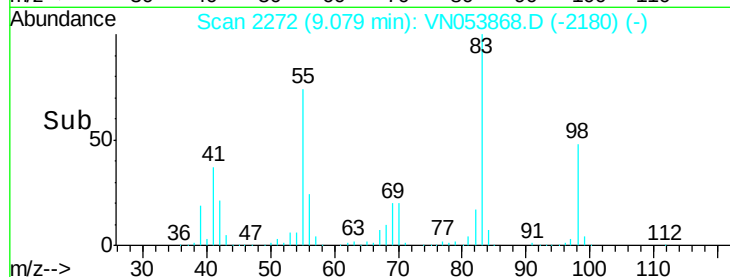
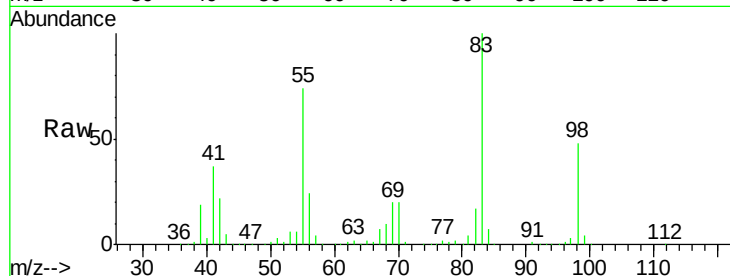
#39
Methylvlcyclohexane
Concen: 50.775 ug/l
RT: 9.08 min Scan# 2272
Delta R.T. -0.00 min
Lab File: VN053868.D
Acq: 19 Feb 2019 15:52

Instrument :
MSVOA_N
ClientSampleId :
VSTDCCC050EC

Tot Ion	Ratio	Lower	Upper
83	100		
55	74.2	60.1	90.1
98	47.7	36.6	55.0

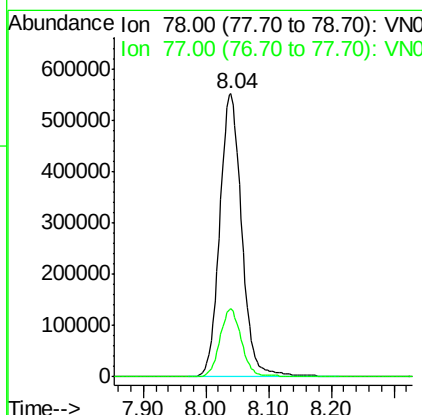
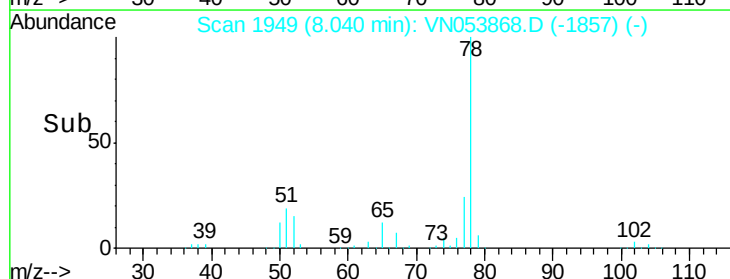
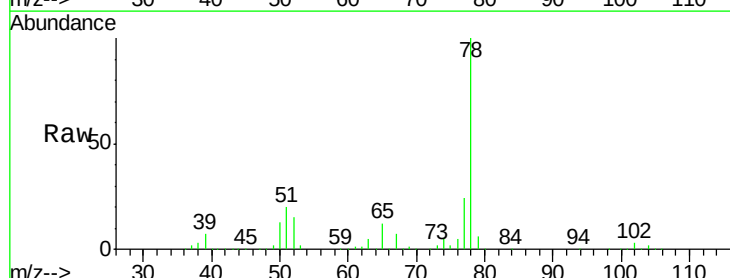
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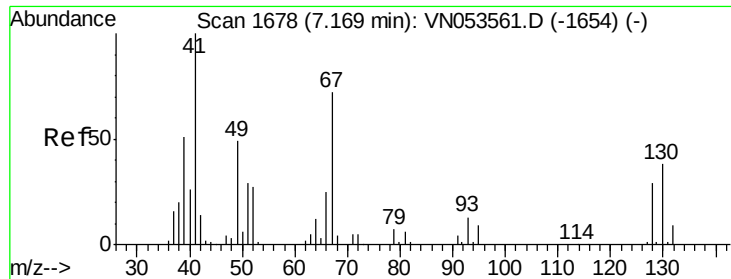
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#40
Benzene
Concen: 52.483 ug/l
RT: 8.04 min Scan# 1949
Delta R.T. -0.00 min
Lab File: VN053868.D
Acq: 19 Feb 2019 15:52

Tgt Ion	Ratio	Lower	Upper
78	100		
77	24.1	18.8	28.2





#41

Methacrylonitrile

Concen: 56.837 ug/l m

RT: 7.18 min Scan# 1683

Delta R.T. 0.02 min

Lab File: VN053868.D

Acq: 19 Feb 2019 15:52

Instrument :

MSVOA_N

ClientSampleId :

VSTDCCC050EC

Tot Ion: 41 Resp: 147506
Ion Ratio Lower Upper

41 100

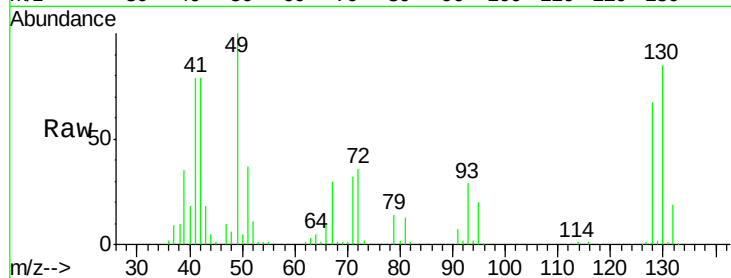
39 0.0 46.8 70.2#

67 0.0 63.0 94.6#

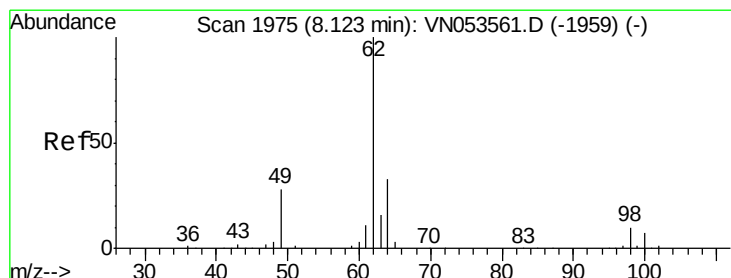
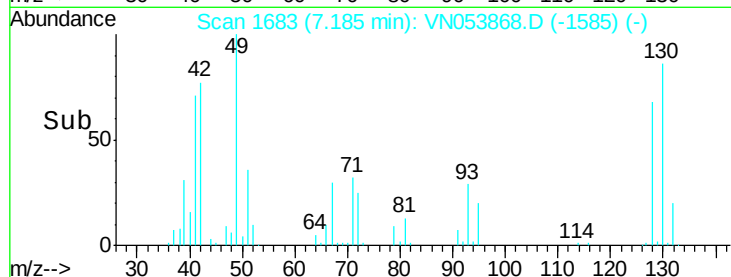
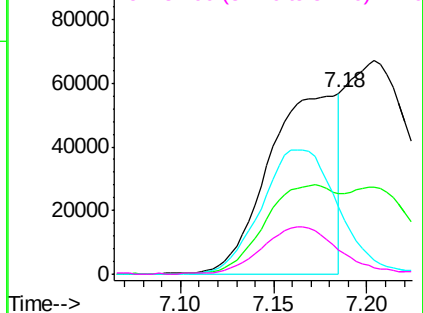
52 0.0 23.8 35.8#

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Abundance Ion 41.00 (40.70 to 41.70): VN053561.D (-1654) (-)
Ion 39.00 (38.70 to 39.70): VN053561.D (-1654) (-)
Ion 67.00 (66.70 to 67.70): VN053561.D (-1654) (-)
Ion 52.00 (51.70 to 52.70): VN053561.D (-1654) (-)



#42

1,2-Dichloroethane

Concen: 51.667 ug/l

RT: 8.12 min Scan# 1974

Delta R.T. -0.00 min

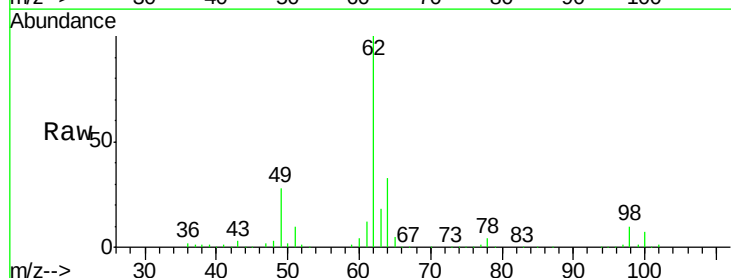
Lab File: VN053868.D

Acq: 19 Feb 2019 15:52

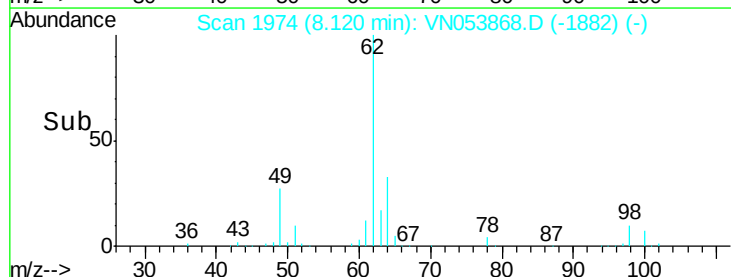
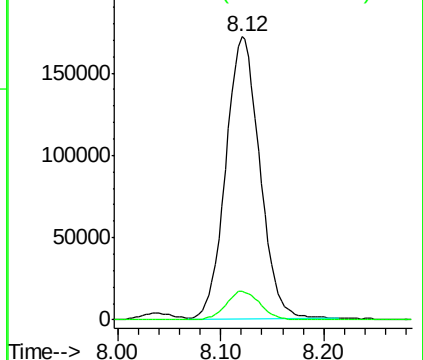
Tgt Ion: 62 Resp: 393326
Ion Ratio Lower Upper

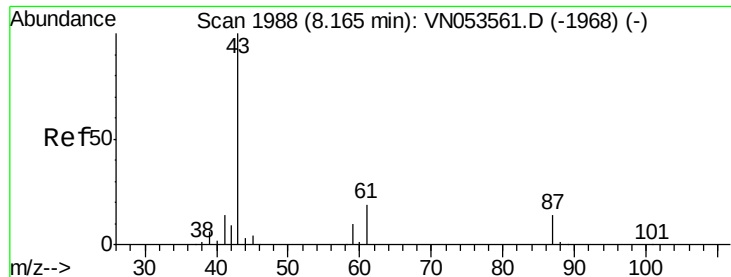
62 100

98 10.2 0.0 19.6



Abundance Ion 61.90 (61.60 to 62.60): VN053561.D (-1959) (-)
Ion 97.90 (97.60 to 98.60): VN053561.D (-1959) (-)





#43

Isopropyl Acetate

Concen: 47.495 ug/l

RT: 8.16 min Scan# 1986

Delta R.T. -0.01 min

Lab File: VN053868.D

Acq: 19 Feb 2019 15:52

Instrument :

MSVOA_N

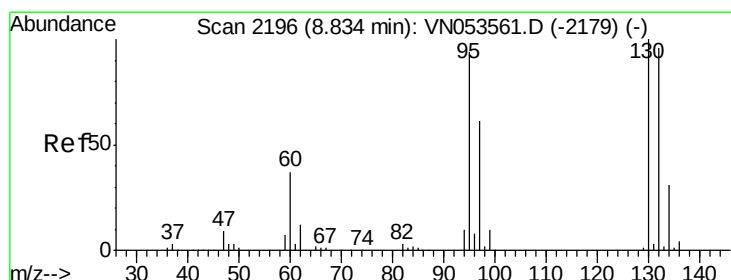
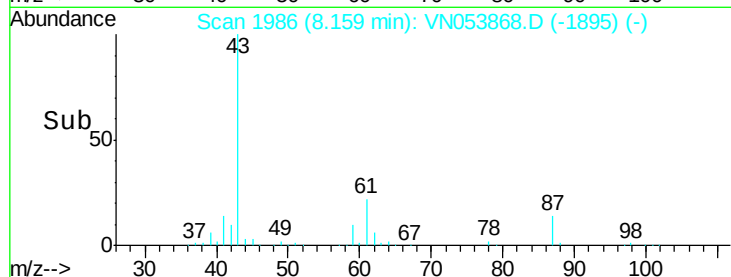
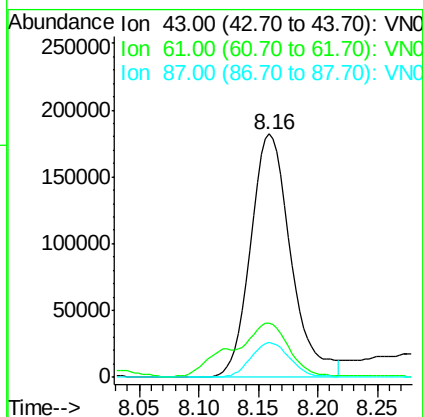
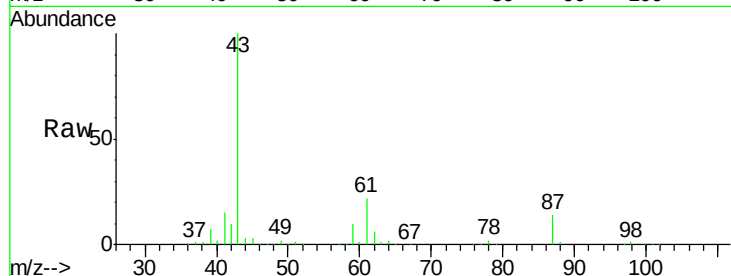
ClientSampleId :

VSTDCCC050EC

Tot Ion:	43	Resp:	425915
Ion	Ratio	Lower	Upper
43	100		
61	21.5	23.9	35.9#
87	14.1	11.0	16.6

Manual Integrations
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MMDadoda
2/20/2019 10:15:04 AM



#44

Trichloroethene

Concen: 49.521 ug/l

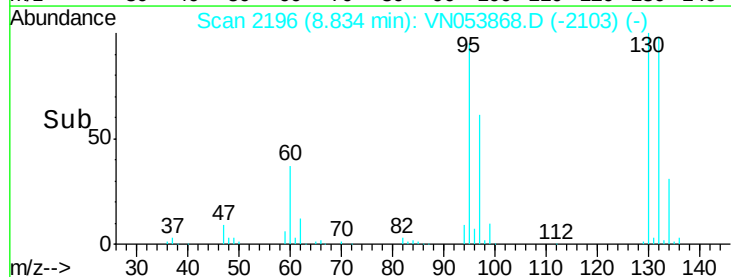
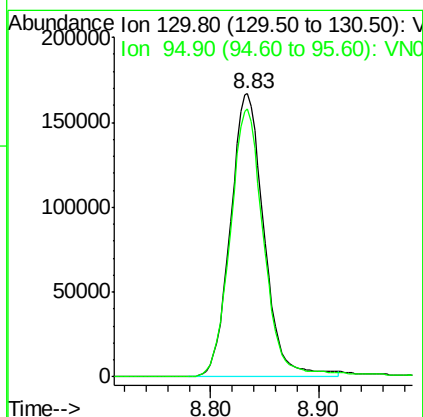
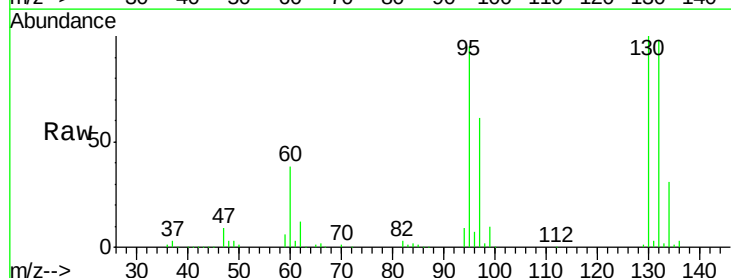
RT: 8.83 min Scan# 2196

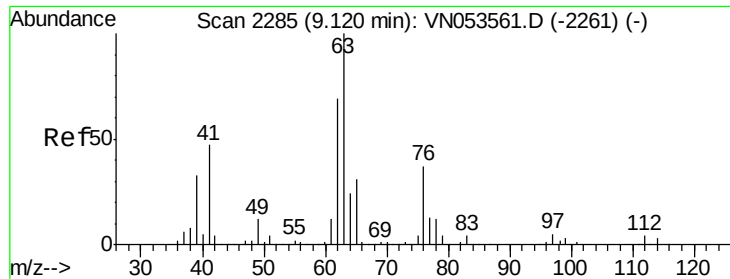
Delta R.T. 0.00 min

Lab File: VN053868.D

Acq: 19 Feb 2019 15:52

Tgt Ion:	130	Resp:	361464
Ion	Ratio	Lower	Upper
130	100		
95	94.5	0.0	191.4





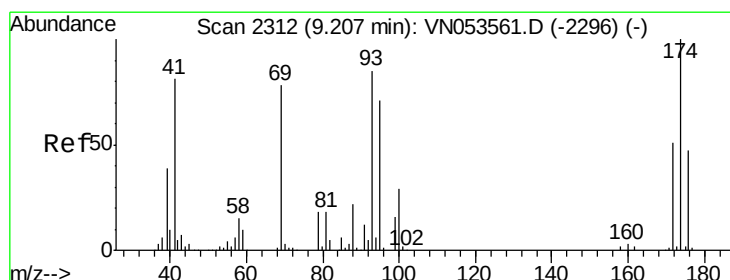
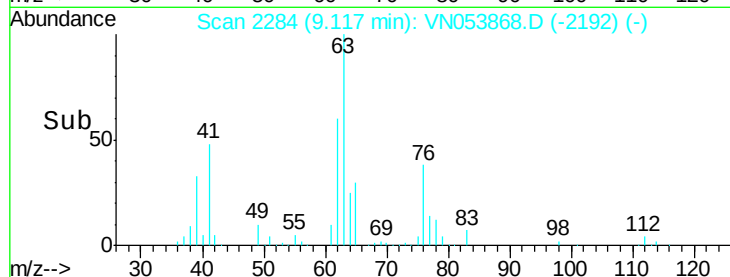
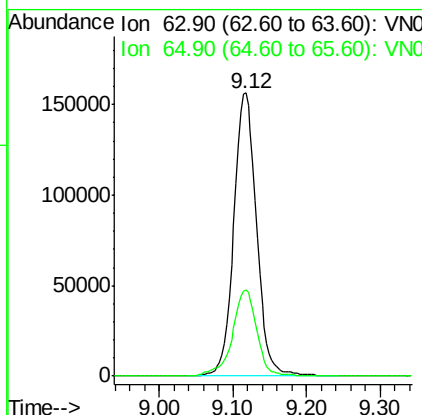
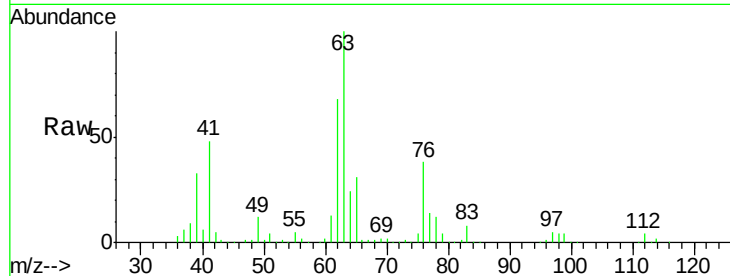
#45
 1,2-Dichloropropane
 Concen: 51.293 ug/l
 RT: 9.12 min Scan# 2284
 Delta R.T. -0.00 min
 Lab File: VN053868.D
 Acq: 19 Feb 2019 15:52

Instrument :
 MSVOA_N
 ClientSampleId :
 VSTDCCC050EC

Tot Ion: 63 Resp: 336369
 Ion Ratio Lower Upper
 63 100
 65 30.6 25.0 37.4

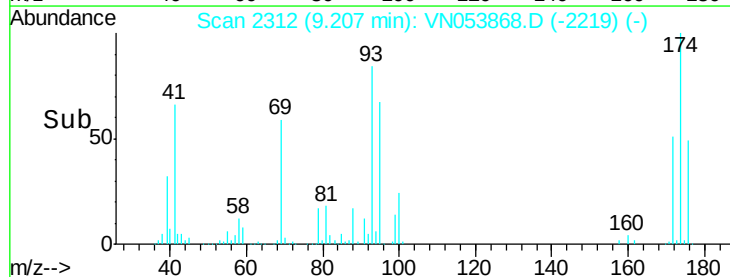
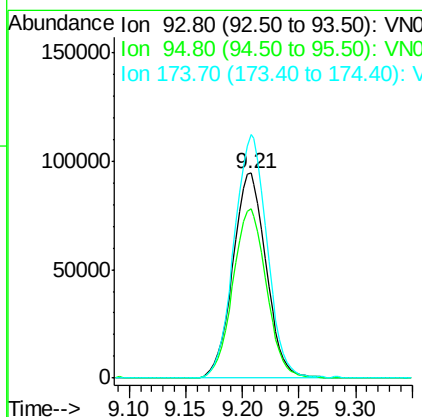
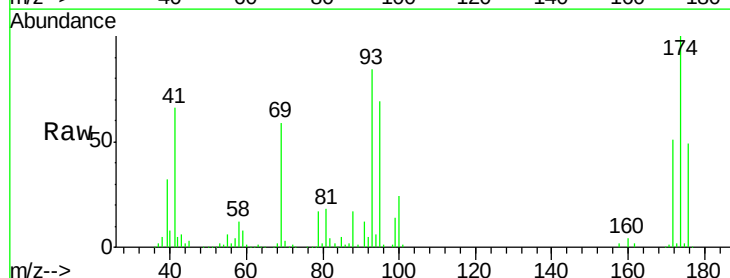
Manual Integrations
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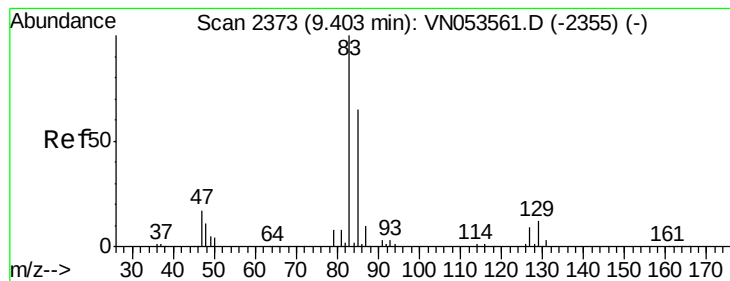
MMDadoda
 2/20/2019 10:15:04 AM



#46
 Dibromomethane
 Concen: 49.059 ug/l
 RT: 9.21 min Scan# 2312
 Delta R.T. 0.00 min
 Lab File: VN053868.D
 Acq: 19 Feb 2019 15:52

Tgt Ion: 93 Resp: 193935
 Ion Ratio Lower Upper
 93 100
 95 83.4 67.3 100.9
 174 117.4 91.0 136.4





#47

Bromodichloromethane

Concen: 52.312 ug/l

RT: 9.40 min Scan# 2372

Delta R.T. -0.00 min

Lab File: VN053868.D

Acq: 19 Feb 2019 15:52

Instrument :

MSVOA_N

ClientSampleId :

VSTDCCC050EC

Tot Ion: 83 Resp: 429968

Ion Ratio Lower Upper

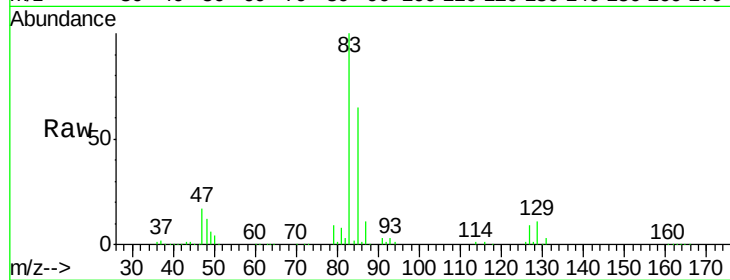
83 100

85 64.5 51.0 76.6

127 9.1 7.0 10.6

Manual Integrations
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MMDadoda
2/20/2019 10:15:04 AM

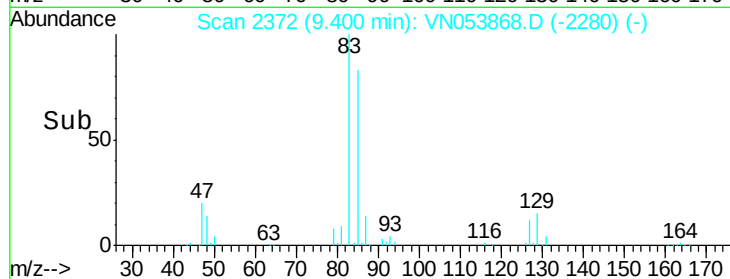


Abundance Ion 82.90 (82.60 to 83.60): VN053561.D (-2355) (-)

Ion 84.90 (84.60 to 85.60): VN053561.D (-2355) (-)

Ion 126.80 (126.50 to 127.50): VN053561.D (-2355) (-)

Time-->

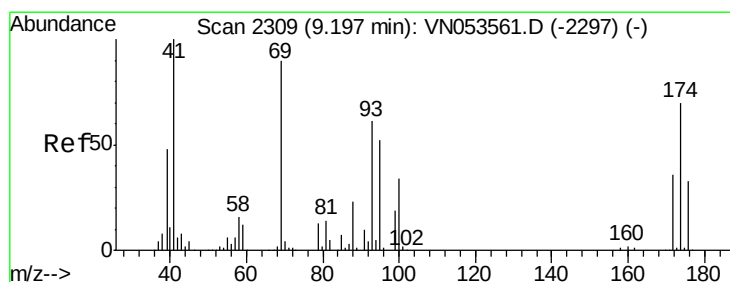


Abundance Ion 82.90 (82.60 to 83.60): VN053868.D (-2280) (-)

Ion 84.90 (84.60 to 85.60): VN053868.D (-2280) (-)

Ion 126.80 (126.50 to 127.50): VN053868.D (-2280) (-)

Time-->



#48

Methyl methacrylate

Concen: 44.323 ug/l

RT: 9.20 min Scan# 2309

Delta R.T. 0.00 min

Lab File: VN053868.D

Acq: 19 Feb 2019 15:52

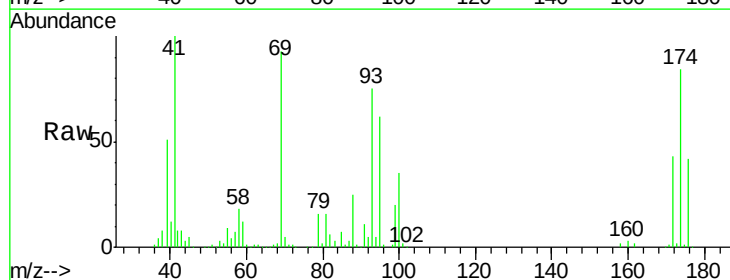
Tgt Ion: 41 Resp: 189731

Ion Ratio Lower Upper

41 100

69 101.6 73.8 110.6

39 53.9 40.0 60.0

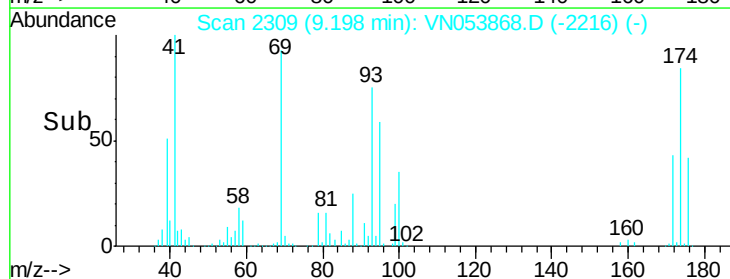


Abundance Ion 41.00 (40.70 to 41.70): VN053561.D (-2297) (-)

Ion 69.00 (68.70 to 69.70): VN053561.D (-2297) (-)

Ion 39.00 (38.70 to 39.70): VN053561.D (-2297) (-)

Time-->

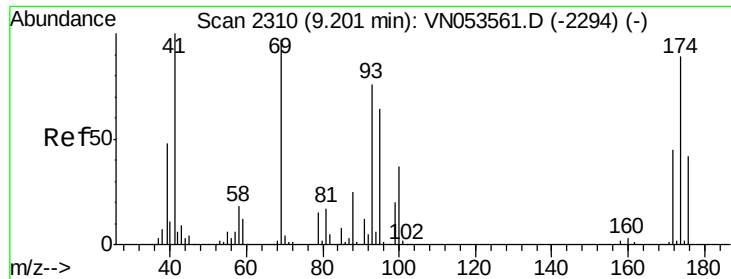


Abundance Ion 41.00 (40.70 to 41.70): VN053868.D (-2216) (-)

Ion 69.00 (68.70 to 69.70): VN053868.D (-2216) (-)

Ion 39.00 (38.70 to 39.70): VN053868.D (-2216) (-)

Time-->



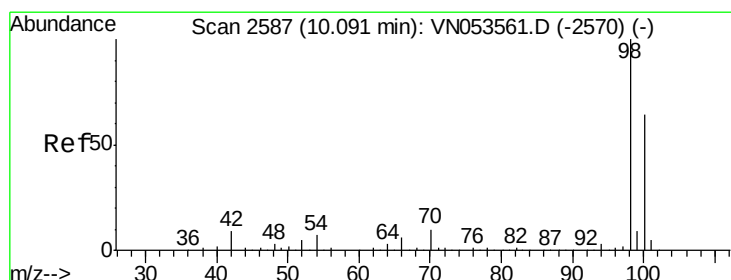
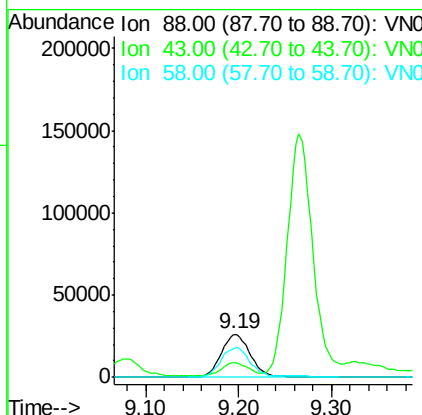
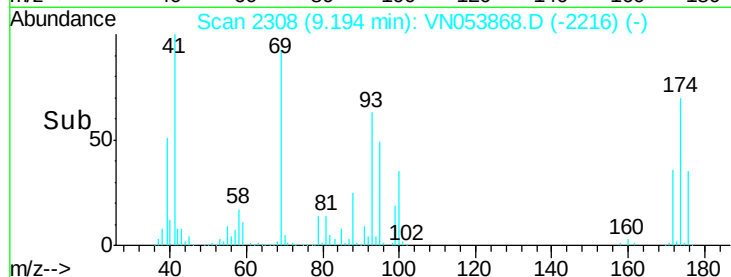
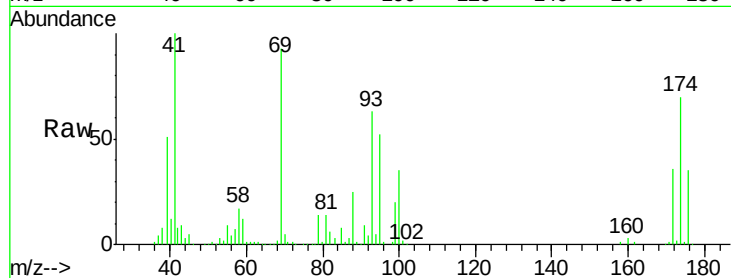
#49
1,4-Dioxane
Concen: 930.947 ug/l
RT: 9.19 min Scan# 2308
Delta R.T. -0.01 min
Lab File: VN053868.D
Acq: 19 Feb 2019 15:52

Instrument :
MSVOA_N
ClientSampleId :
VSTDCCC050EC

Tot Ion	Ratio	Lower	Upper
88	100		
43	29.8	27.8	41.6
58	69.0	56.5	84.7

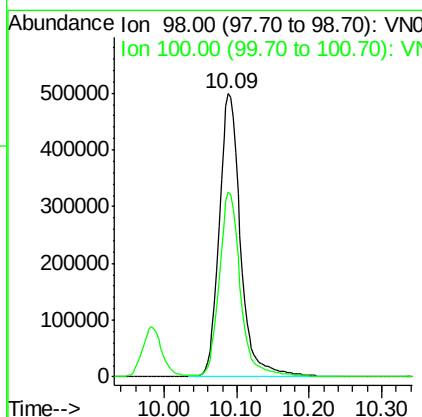
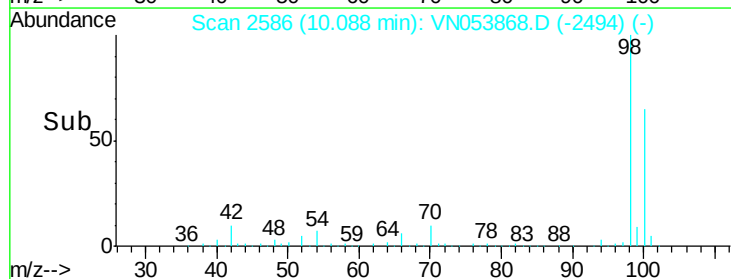
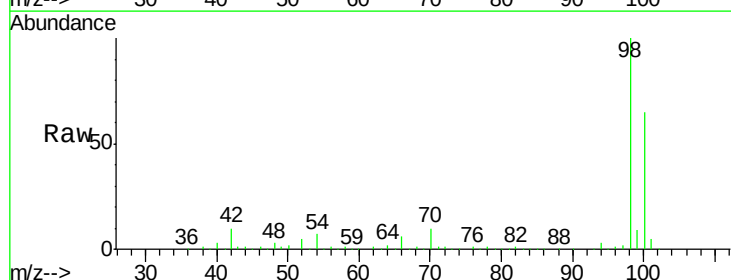
Manual Integrations
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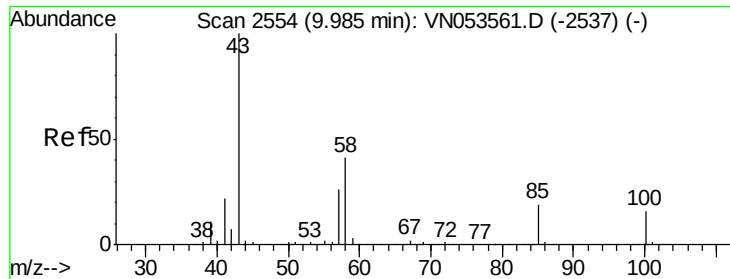
MMDadoda
2/20/2019 10:15:04 AM



#50
Toluene-d8
Concen: 46.492 ug/l
RT: 10.09 min Scan# 2586
Delta R.T. -0.00 min
Lab File: VN053868.D
Acq: 19 Feb 2019 15:52

Tgt Ion	Ratio	Lower	Upper
98	100		
100	65.3	51.4	77.0





#51

4-Methyl-2-Pentanone

Concen: 242.559 ug/l

RT: 9.98 min Scan# 2553

Delta R.T. -0.00 min

Lab File: VN053868.D

Acq: 19 Feb 2019 15:52

Instrument :

MSVOA_N

ClientSampleId :

VSTDCCC050EC

Tot Ion: 43 Resp: 1068891

Ion Ratio Lower Upper

43 100

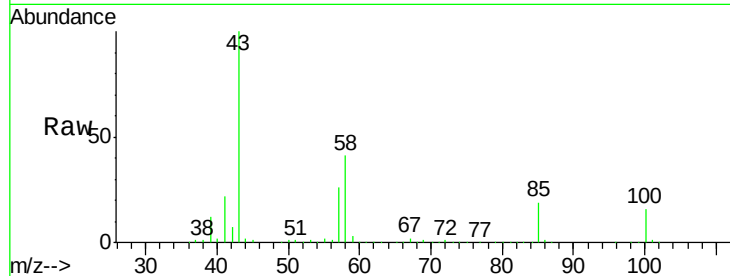
58 41.4 32.8 49.2

Manual Integrations

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MMDadoda

2/20/2019 10:15:04 AM



Abundance Ion 43.00 (42.70 to 43.70): VN0

Ion 58.00 (57.70 to 58.70): VN0

600000

500000

400000

300000

200000

100000

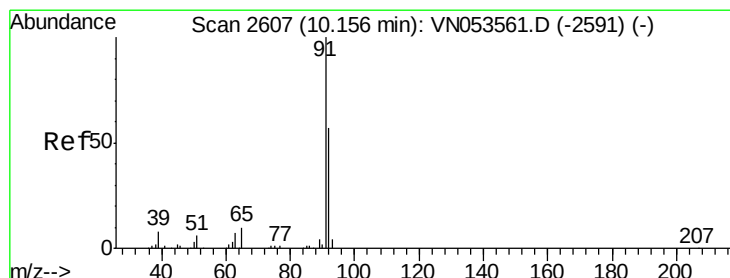
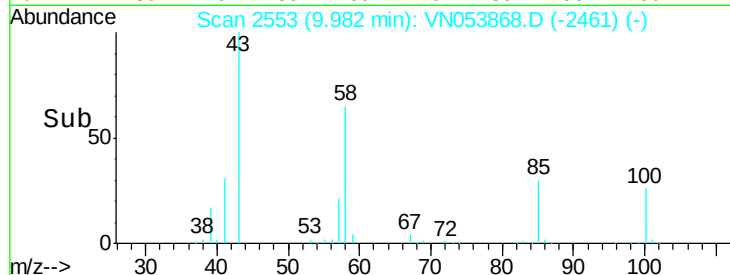
0

9.90

10.00

10.10

Time-->



#52

Toluene

Concen: 50.890 ug/l

RT: 10.15 min Scan# 2606

Delta R.T. -0.00 min

Lab File: VN053868.D

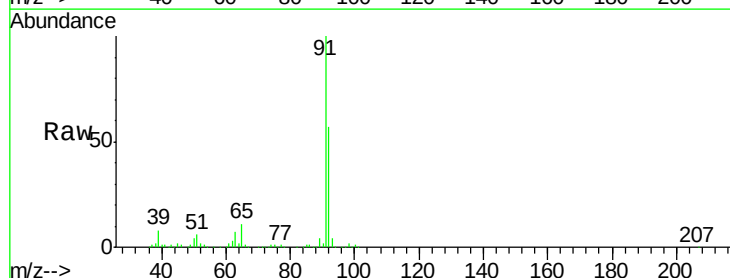
Acq: 19 Feb 2019 15:52

Tgt Ion: 92 Resp: 774376

Ion Ratio Lower Upper

92 100

91 173.6 139.9 209.9



Abundance Ion 92.00 (91.70 to 92.70): VN0

Ion 91.00 (90.70 to 91.70): VN0

800000

600000

400000

200000

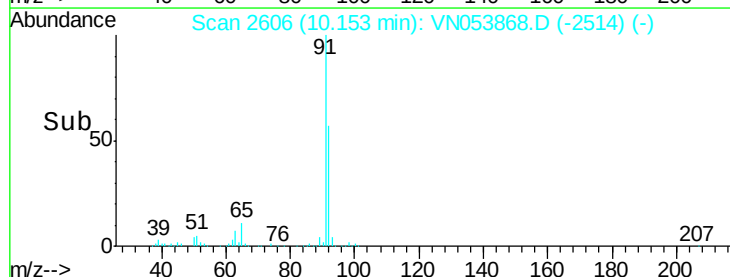
0

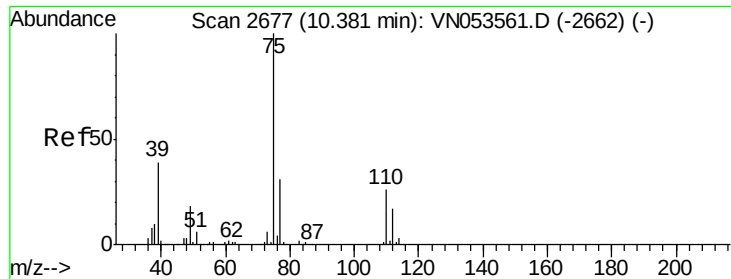
10.10

10.20

10.30

Time-->





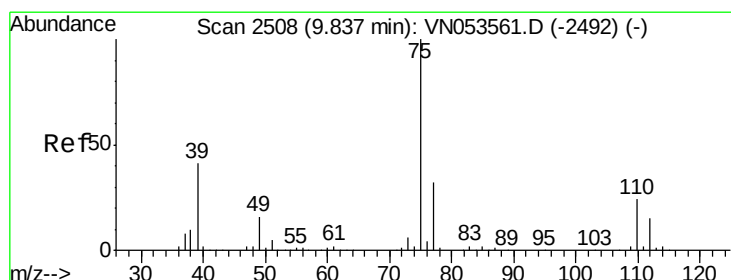
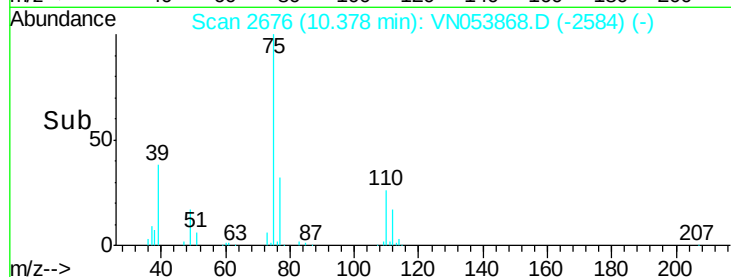
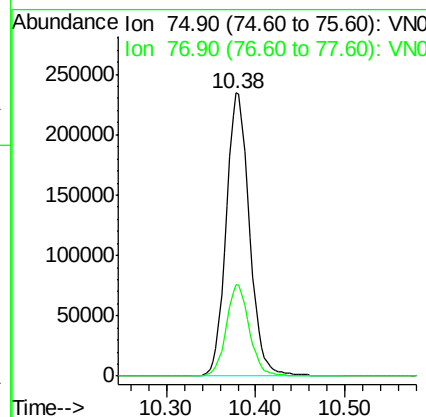
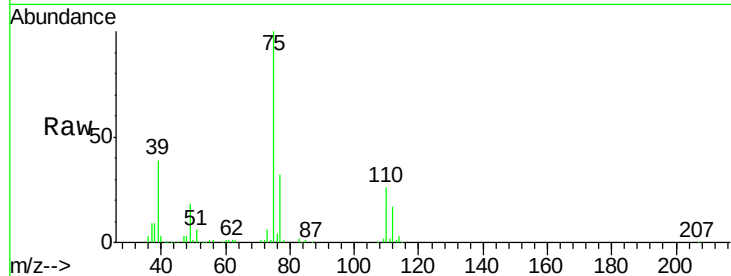
#53
 t-1,3-Dichloropropene
 Concen: 51.576 ug/l
 RT: 10.38 min Scan# 2676
 Delta R.T. -0.00 min
 Lab File: VN053868.D
 Acq: 19 Feb 2019 15:52

Instrument :
 MSVOA_N
 ClientSampleID :
 VSTDCCC050EC

Tot Ion: 75 Resp: 424489
 Ion Ratio Lower Upper
 75 100
 77 32.3 25.5 38.3

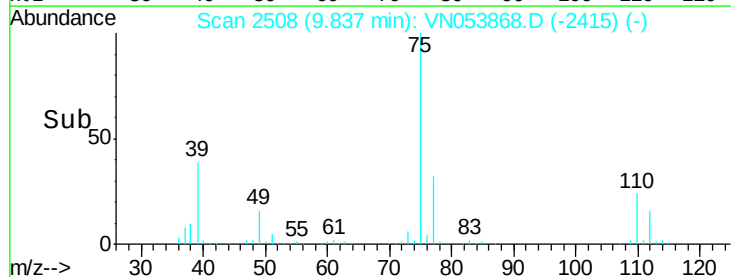
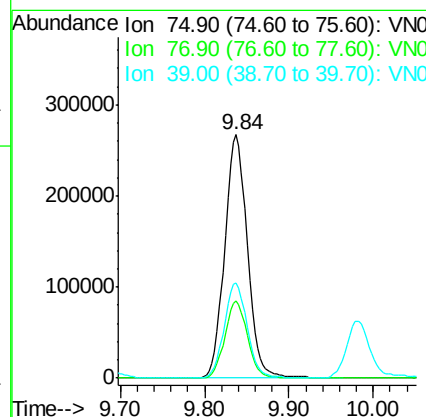
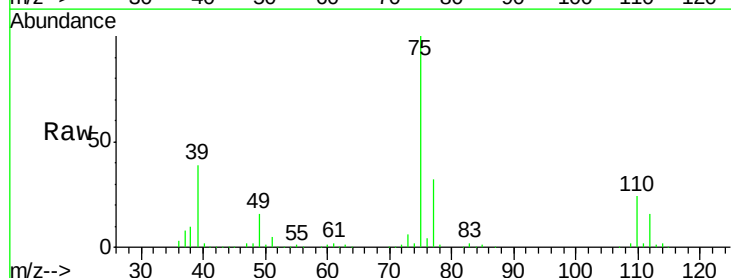
Manual Integrations
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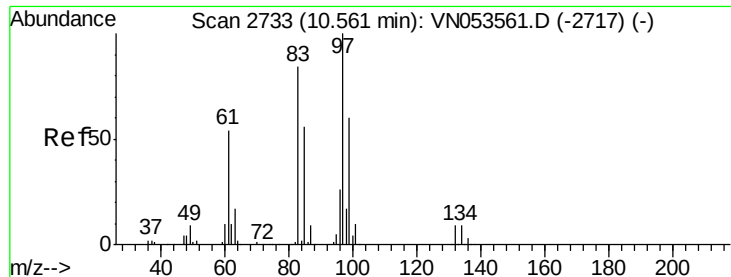
MMDadoda
 2/20/2019 10:15:04 AM



#54
 cis-1,3-Dichloropropene
 Concen: 51.416 ug/l
 RT: 9.84 min Scan# 2508
 Delta R.T. 0.00 min
 Lab File: VN053868.D
 Acq: 19 Feb 2019 15:52

Tgt Ion: 75 Resp: 501457
 Ion Ratio Lower Upper
 75 100
 77 31.6 25.8 38.6
 39 39.1 33.4 50.0





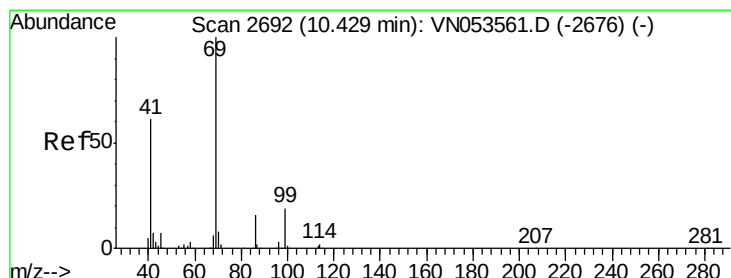
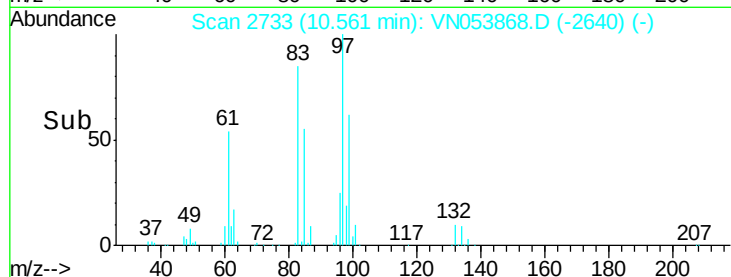
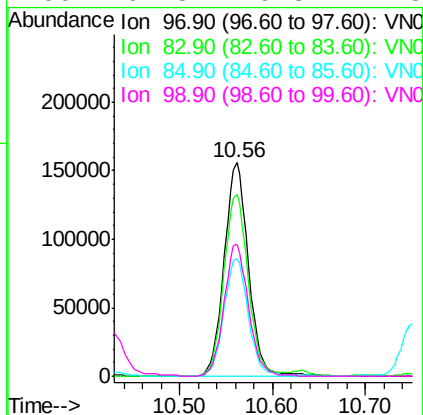
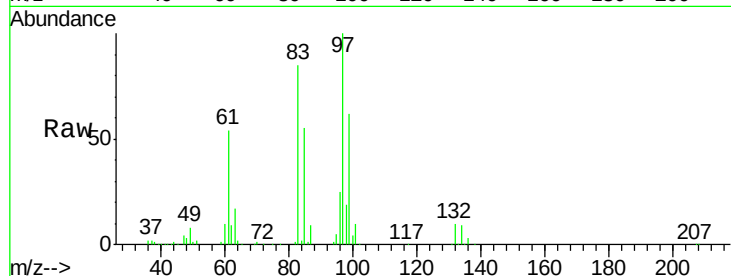
#55
1,1,2-Trichloroethane
Concen: 51.721 ug/l
RT: 10.56 min Scan# 2733
Delta R.T. 0.00 min
Lab File: VN053868.D
Acq: 19 Feb 2019 15:52

Instrument :
MSVOA_N
ClientSampleId :
VSTDCCC050EC

Tot Ion:	97	Resp:	283593
Ion	Ratio	Lower	Upper
97	100		
83	85.4	70.1	105.1
85	55.3	45.4	68.0
99	61.8	49.8	74.8

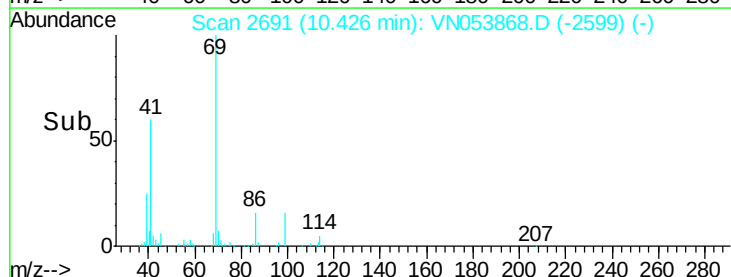
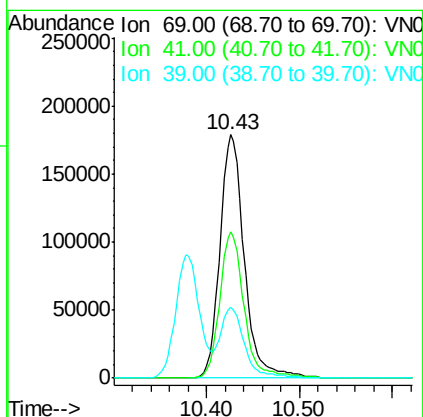
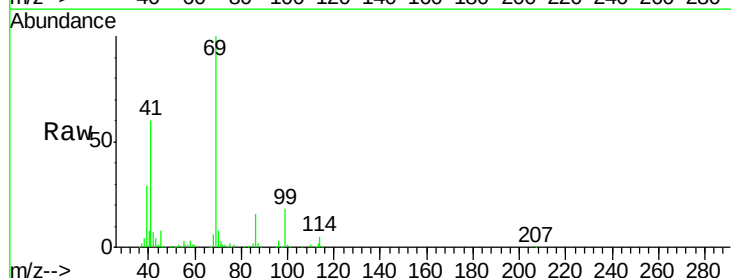
Manual Integrations
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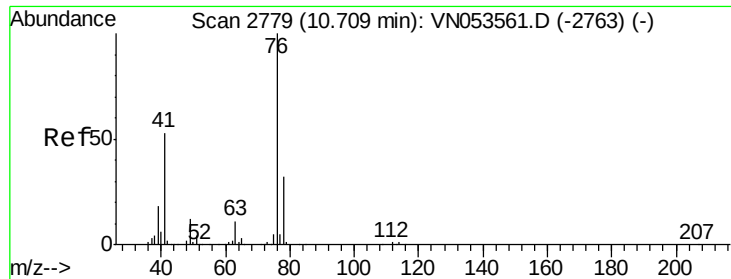
MMDadoda
2/20/2019 10:15:04 AM



#56
Ethyl methacrylate
Concen: 50.322 ug/l
RT: 10.43 min Scan# 2691
Delta R.T. -0.00 min
Lab File: VN053868.D
Acq: 19 Feb 2019 15:52

Tgt Ion:	69	Resp:	326418
Ion	Ratio	Lower	Upper
69	100		
41	59.2	49.4	74.0
39	28.7	23.3	34.9





#57

1,3-Dichloropropane

Concen: 49.731 ug/l

RT: 10.71 min Scan# 2778

Delta R.T. -0.00 min

Lab File: VN053868.D

Acq: 19 Feb 2019 15:52

Instrument :

MSVOA_N

ClientSampleId :

VSTDCCC050EC

Tot Ion: 76 Resp: 466032

Ion Ratio Lower Upper

76 100

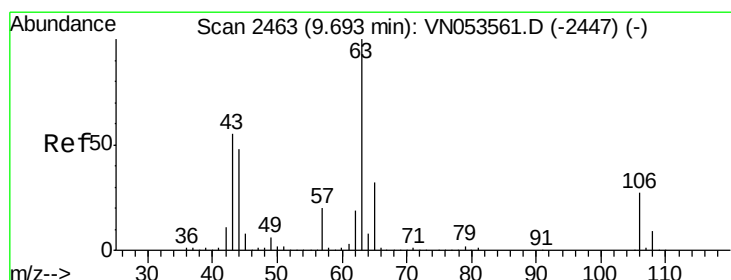
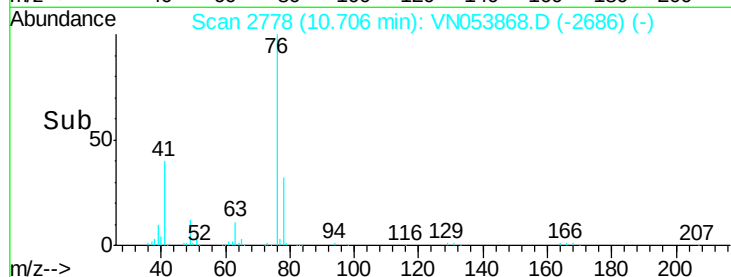
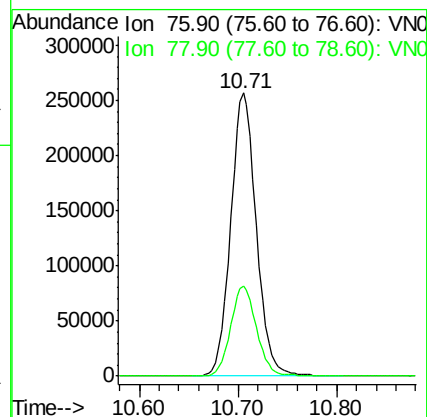
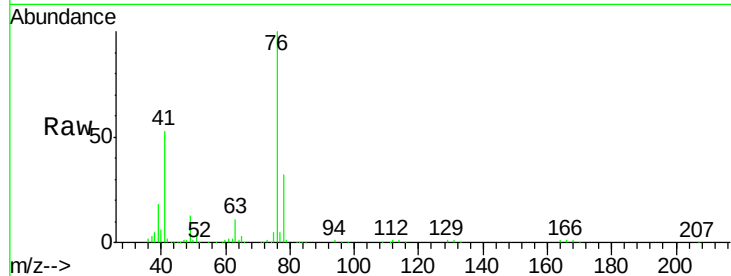
78 32.4 25.6 38.4

Manual Integrations

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MMDadoda

2/20/2019 10:15:04 AM



#58

2-Chloroethyl Vinyl ether

Concen: 178.735 ug/l

RT: 9.69 min Scan# 2463

Delta R.T. 0.00 min

Lab File: VN053868.D

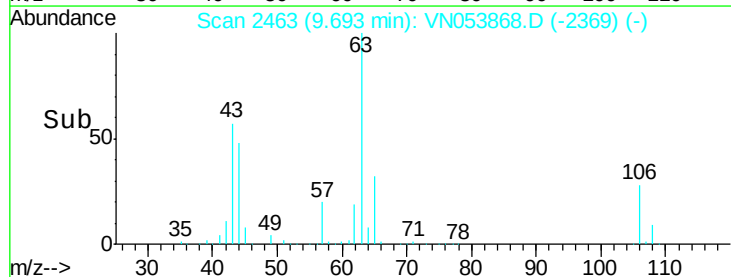
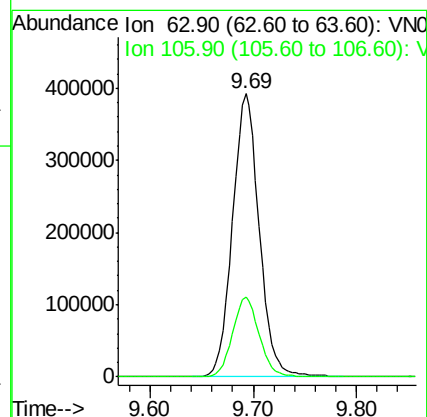
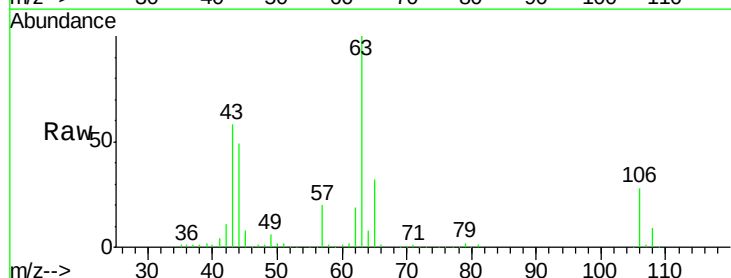
Acq: 19 Feb 2019 15:52

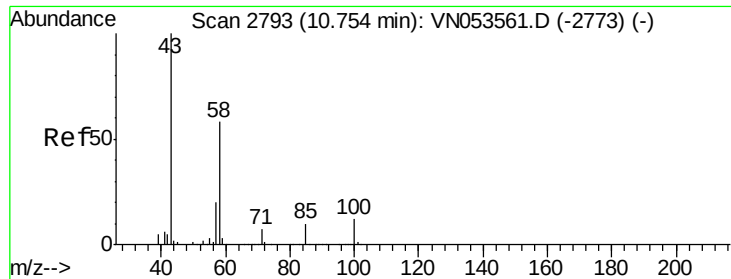
Tgt Ion: 63 Resp: 709530

Ion Ratio Lower Upper

63 100

106 28.2 21.5 32.3





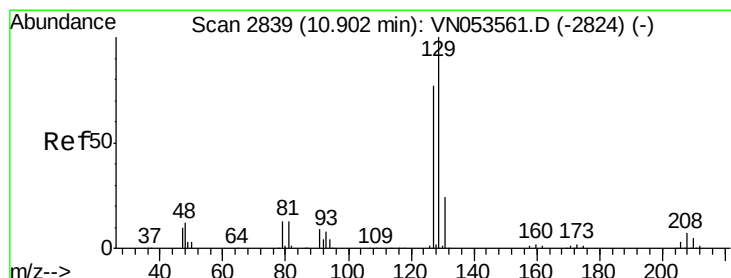
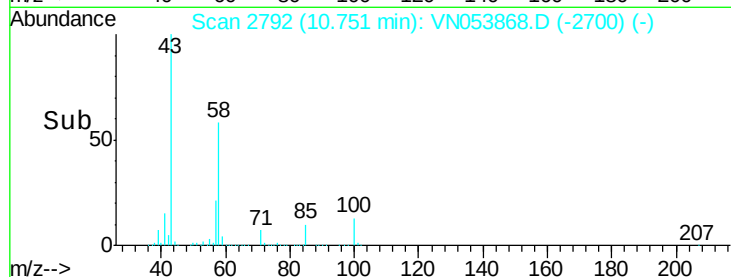
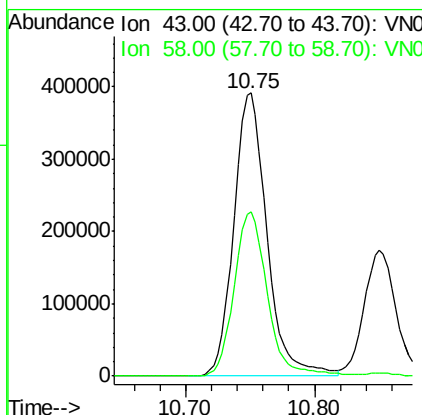
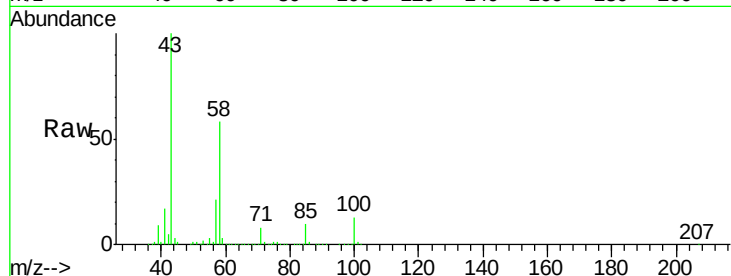
#59
2-Hexanone
Concen: 233.095 ug/l
RT: 10.75 min Scan# 2792
Delta R.T. -0.00 min
Lab File: VN053868.D
Acq: 19 Feb 2019 15:52

Instrument :
MSVOA_N
ClientSampleId :
VSTDCCC050EC

Tot Ion: 43 Resp: 697326
Ion Ratio Lower Upper
43 100
58 58.3 28.6 85.8

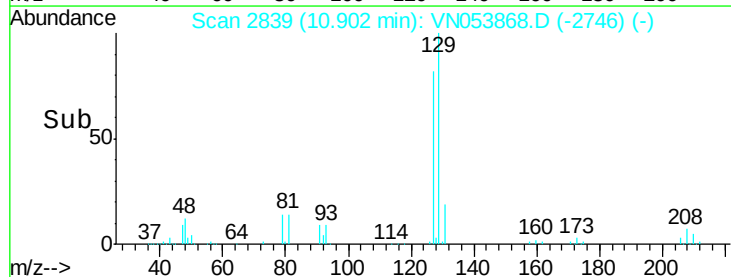
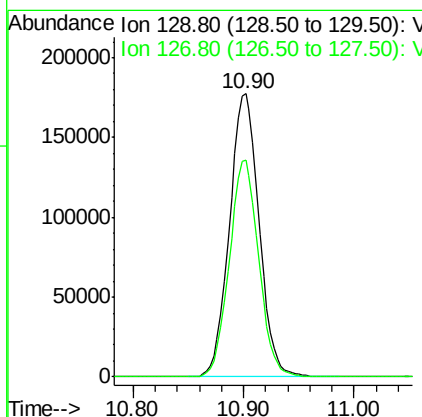
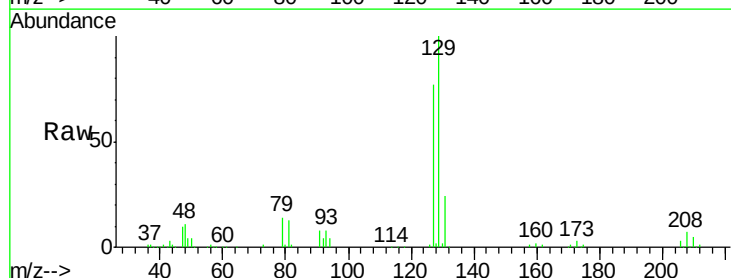
Manual Integrations
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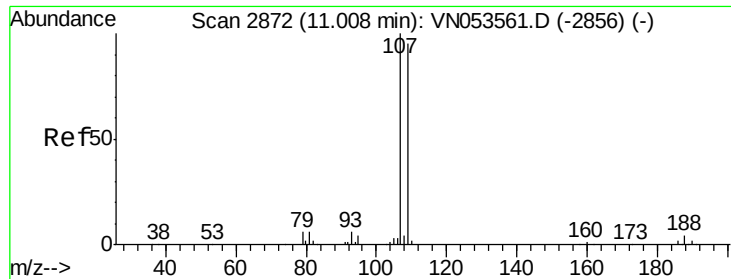
MMDadoda
2/20/2019 10:15:04 AM



#60
Dibromochloromethane
Concen: 53.397 ug/l
RT: 10.90 min Scan# 2839
Delta R.T. 0.00 min
Lab File: VN053868.D
Acq: 19 Feb 2019 15:52

Tgt Ion: 129 Resp: 330168
Ion Ratio Lower Upper
129 100
127 76.0 38.6 115.8





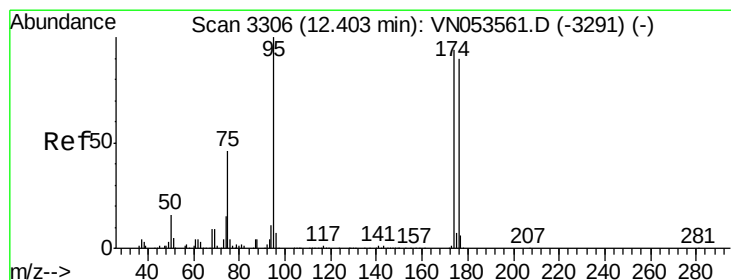
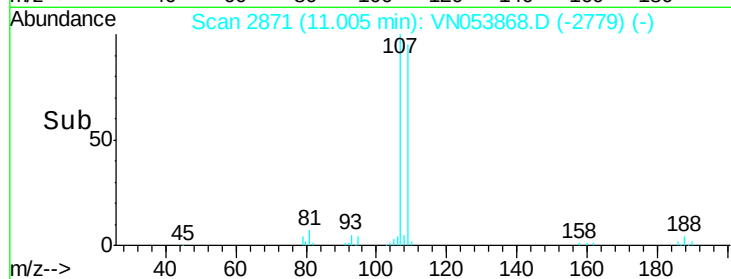
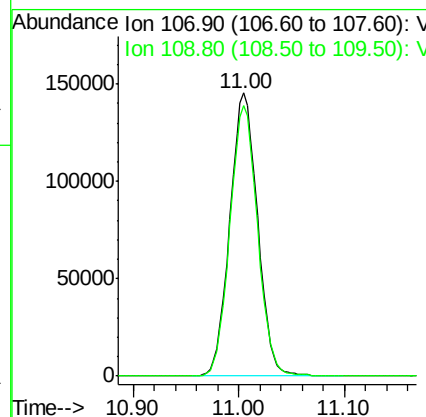
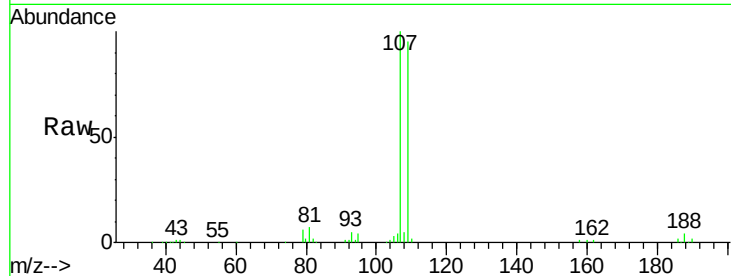
#61
 1,2-Dibromoethane
 Concen: 48.670 ug/l
 RT: 11.00 min Scan# 2871
 Delta R.T. -0.00 min
 Lab File: VN053868.D
 Acq: 19 Feb 2019 15:52

Instrument :
 MSVOA_N
 ClientSampleId :
 VSTDCCC050EC

Tot Ion	Ratio	Lower	Upper
107	100		
109	95.5	75.7	113.5

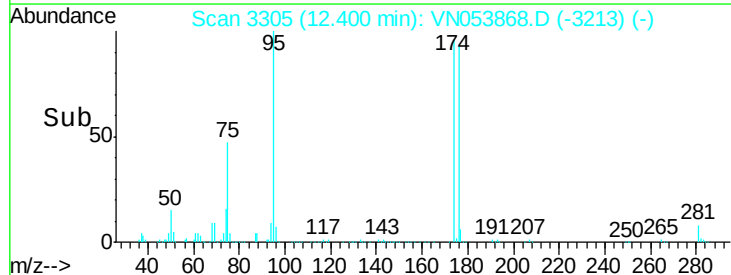
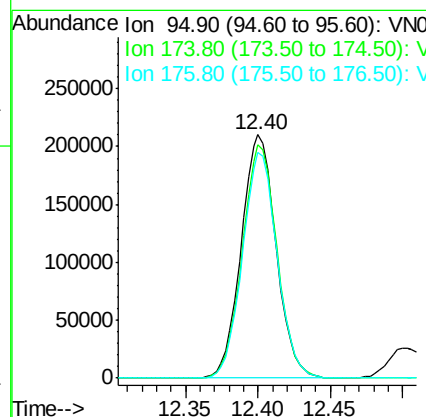
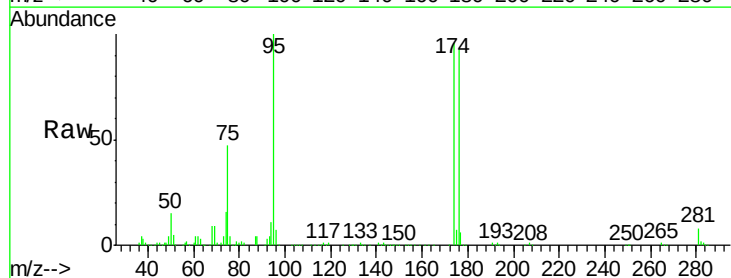
Manual Integrations
 APPROVED

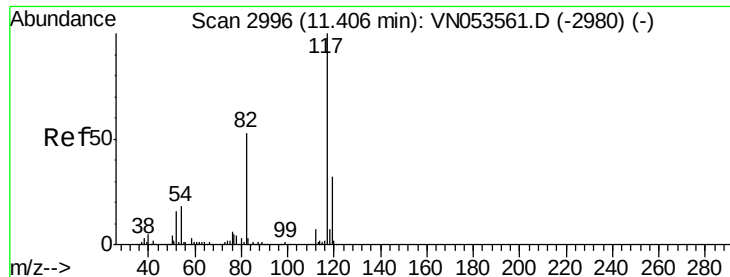
MMDadoda
 2/20/2019 10:15:04 AM



#62
 4-Bromofluorobenzene
 Concen: 48.027 ug/l
 RT: 12.40 min Scan# 3305
 Delta R.T. -0.00 min
 Lab File: VN053868.D
 Acq: 19 Feb 2019 15:52

Tgt Ion	Ratio	Lower	Upper
95	100		
174	96.0	0.0	183.2
176	92.4	0.0	177.4





#63

Chlorobenzene-d5

Concen: 50.000 ug/l

RT: 11.41 min Scan# 2996

Delta R.T. 0.00 min

Lab File: VN053868.D

Acq: 19 Feb 2019 15:52

Instrument :

MSVOA_N

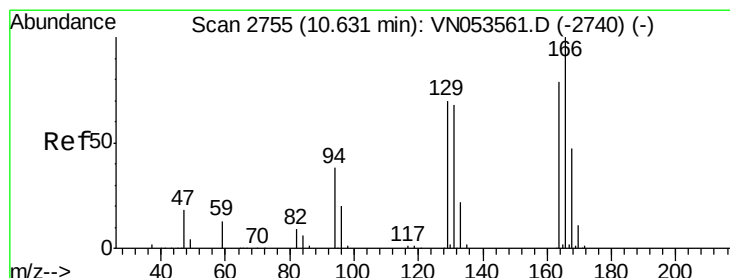
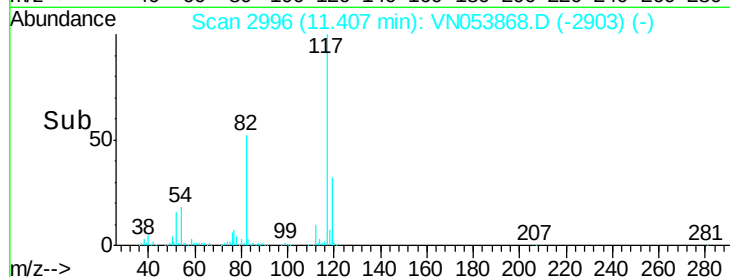
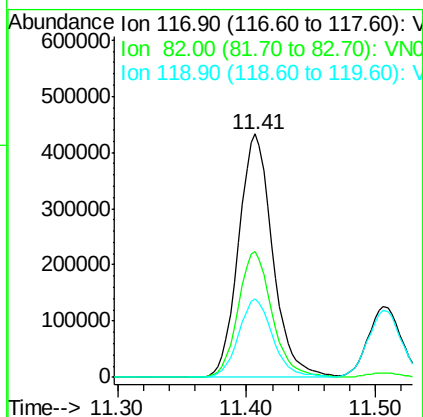
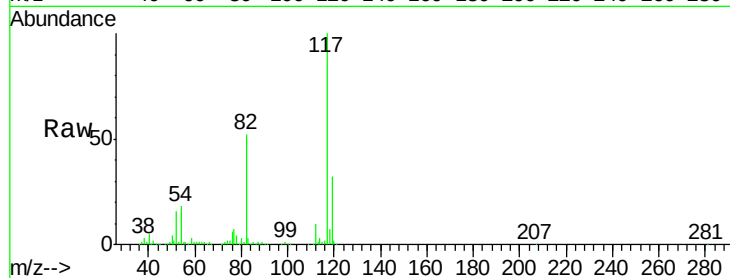
ClientSampleId :

VSTDCCC050EC

Tot Ion:	117	Resp:	797808
Ion Ratio	Lower	Upper	
117	100		
82	51.8	42.9	64.3
119	32.1	26.0	39.0

Manual Integrations
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#64

Tetrachloroethene

Concen: 52.833 ug/l

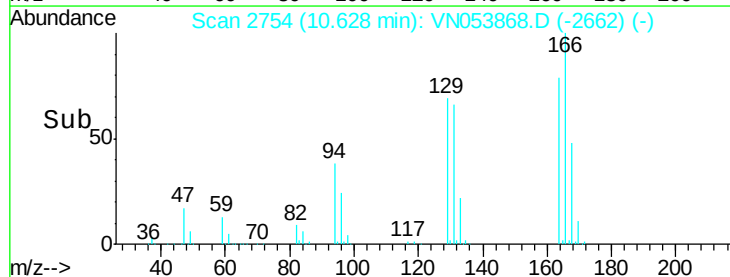
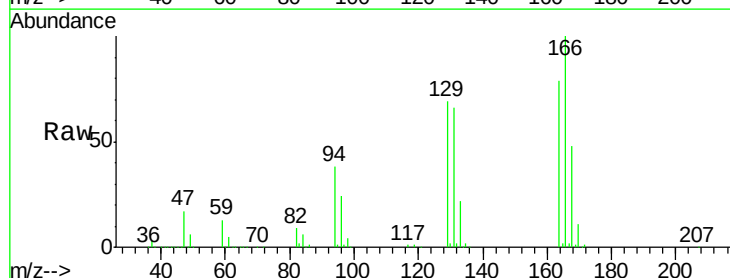
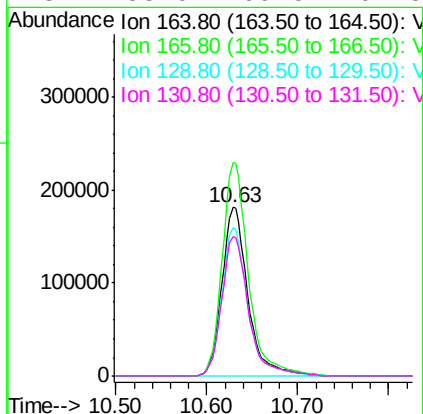
RT: 10.63 min Scan# 2754

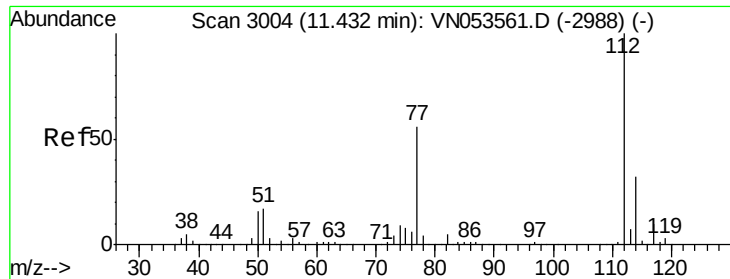
Delta R.T. -0.00 min

Lab File: VN053868.D

Acq: 19 Feb 2019 15:52

Tgt Ion:	164	Resp:	361321
Ion Ratio	Lower	Upper	
164	100		
166	126.5	102.2	153.4
129	87.9	72.6	109.0
131	83.0	69.5	104.3





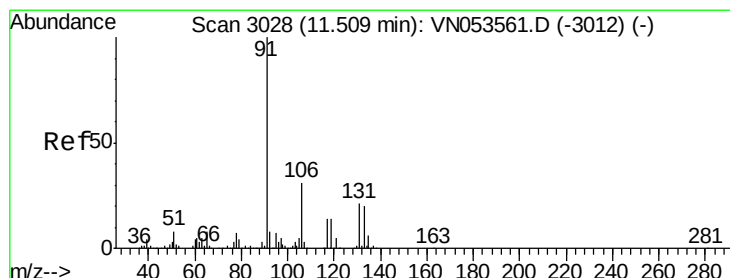
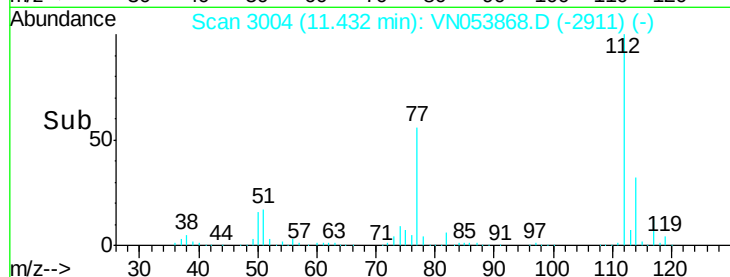
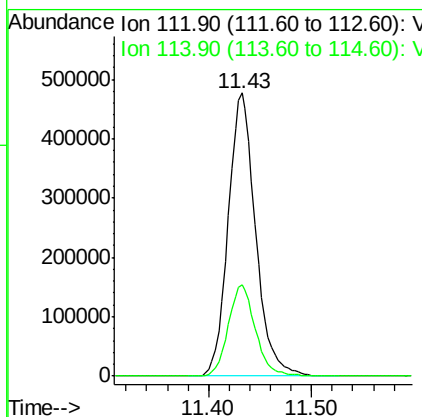
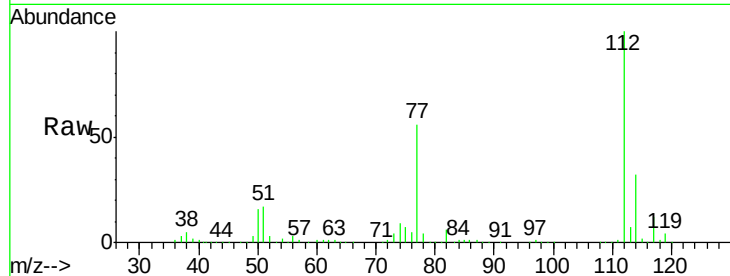
#65
Chlorobenzene
Concen: 52.024 ug/l
RT: 11.43 min Scan# 3004
Delta R.T. 0.00 min
Lab File: VN053868.D
Acq: 19 Feb 2019 15:52

Instrument :
MSVOA_N
ClientSampleId :
VSTDCCC050EC

Tot Ion:112 Resp: 881622
Ion Ratio Lower Upper
112 100
114 32.4 25.3 37.9

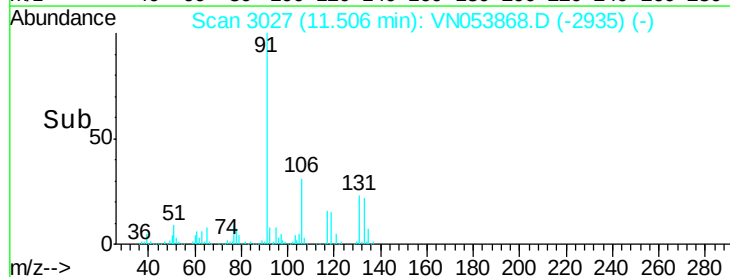
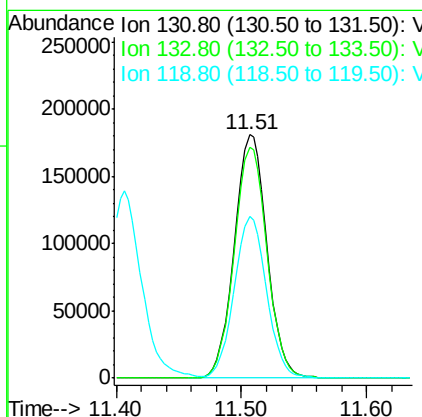
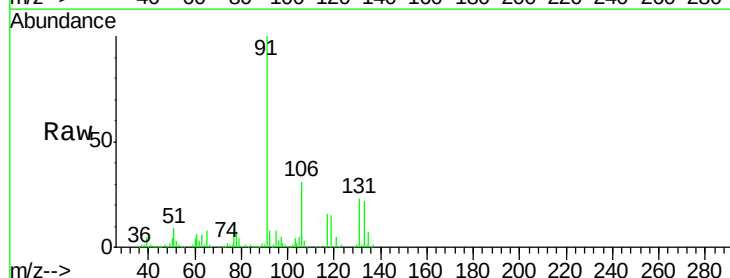
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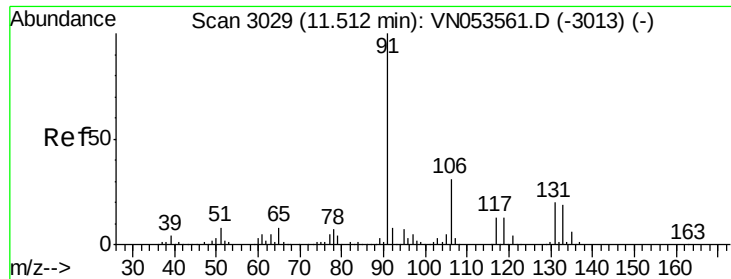
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#66
1,1,1,2-Tetrachloroethane
Concen: 55.368 ug/l
RT: 11.51 min Scan# 3027
Delta R.T. -0.00 min
Lab File: VN053868.D
Acq: 19 Feb 2019 15:52

Tgt Ion:131 Resp: 327683
Ion Ratio Lower Upper
131 100
133 95.6 48.0 144.0
119 66.0 33.5 100.5





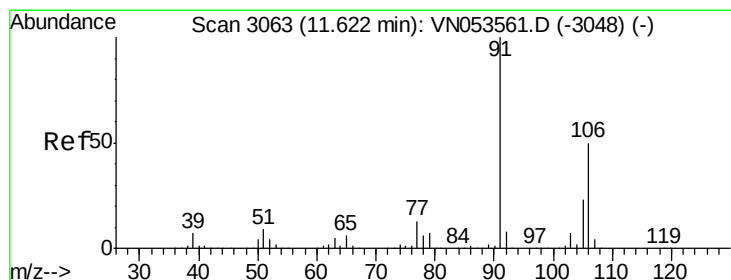
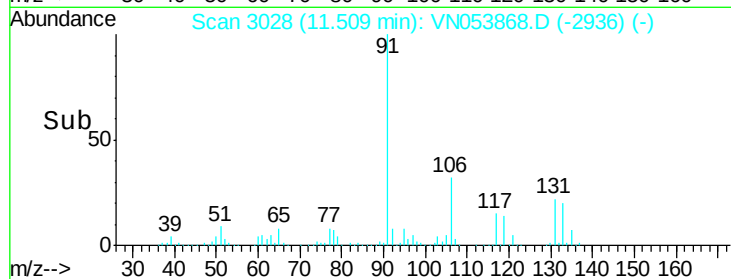
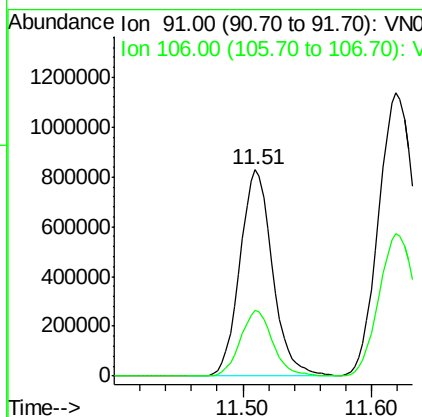
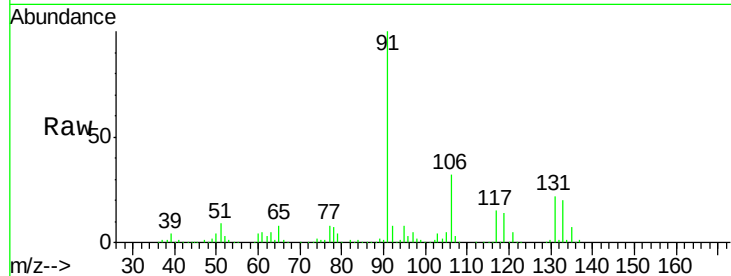
#67
Ethyl Benzene
Concen: 52.457 ug/l
RT: 11.51 min Scan# 3028
Delta R.T. -0.00 min
Lab File: VN053868.D
Acq: 19 Feb 2019 15:52

Instrument :
MSVOA_N
ClientSampleId :
VSTDCCC050EC

Tot Ion: 91 Resp: 1460275
Ion Ratio Lower Upper
91 100
106 31.8 25.0 37.6

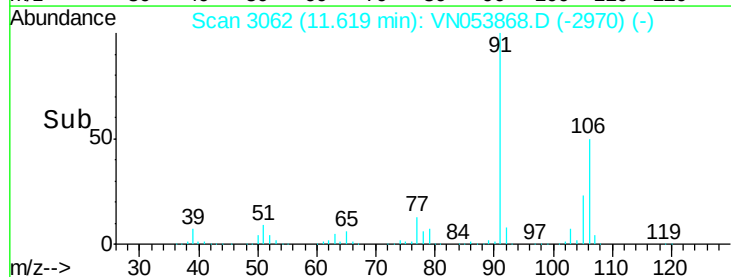
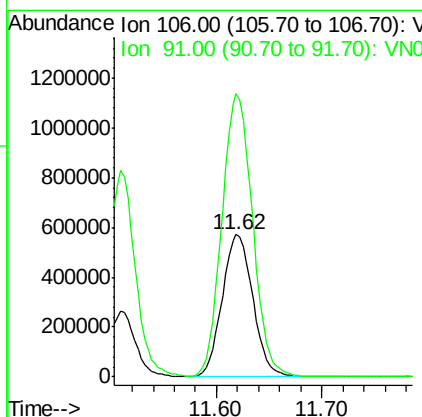
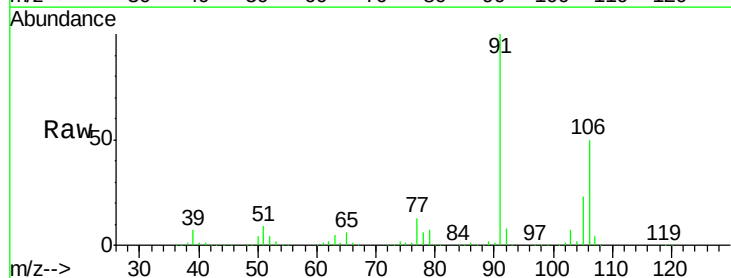
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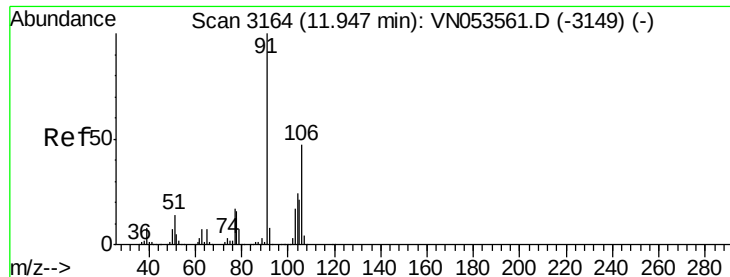
MMDadoda
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#68
m/p-Xylenes
Concen: 108.079 ug/l
RT: 11.62 min Scan# 3062
Delta R.T. -0.00 min
Lab File: VN053868.D
Acq: 19 Feb 2019 15:52

Tgt Ion: 106 Resp: 1148289
Ion Ratio Lower Upper
106 100
91 199.2 161.4 242.2





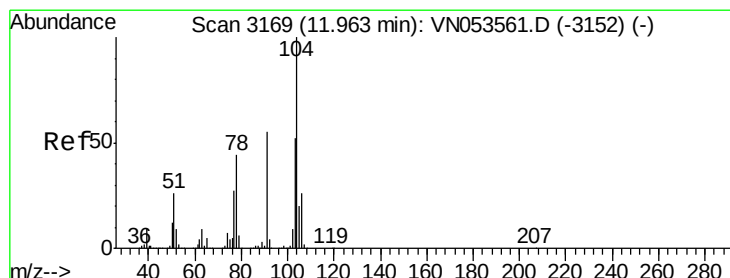
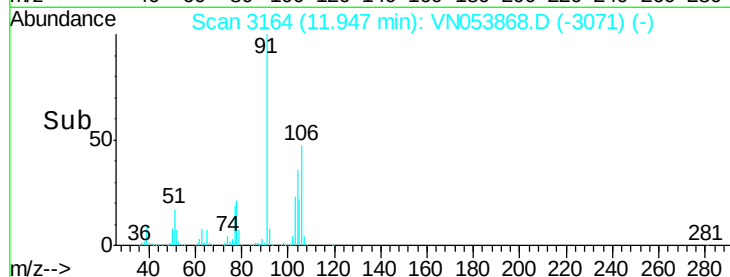
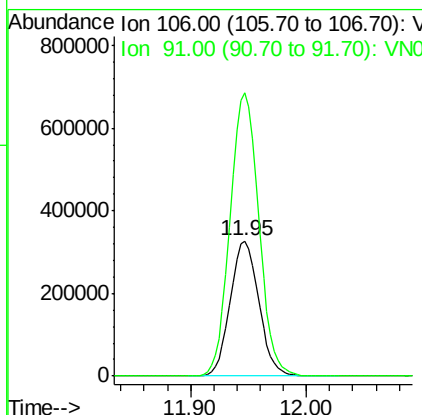
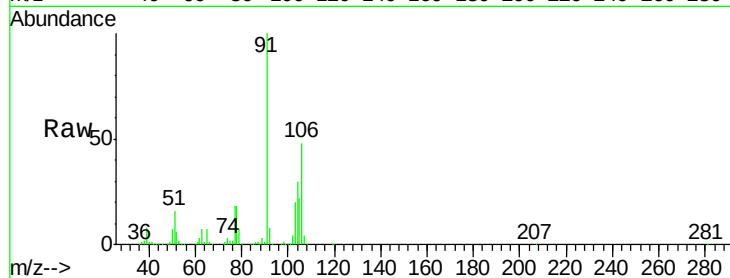
#69
o-Xylene
Concen: 54.153 ug/l
RT: 11.95 min Scan# 3164
Delta R.T. 0.00 min
Lab File: VN053868.D
Acq: 19 Feb 2019 15:52

Instrument :
MSVOA_N
ClientSampleId :
VSTDCCC050EC

Tot Ion	Ion	Ratio	Resp	Lower	Upper
106	100				
91	210.8	106.9	555840	320.8	

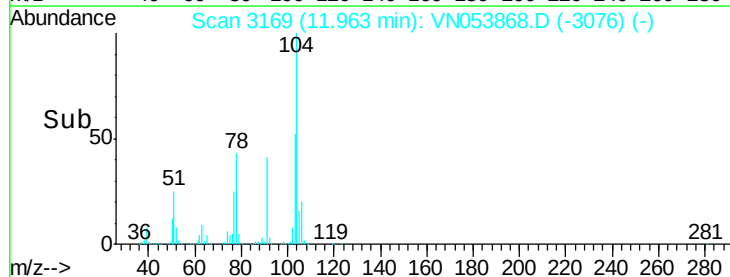
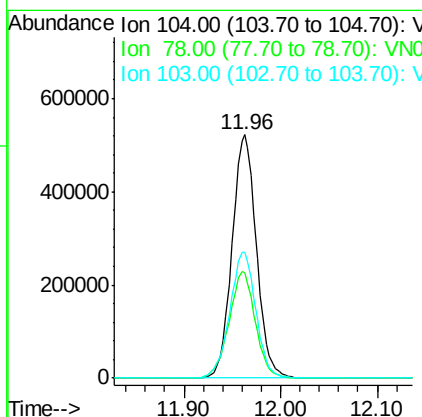
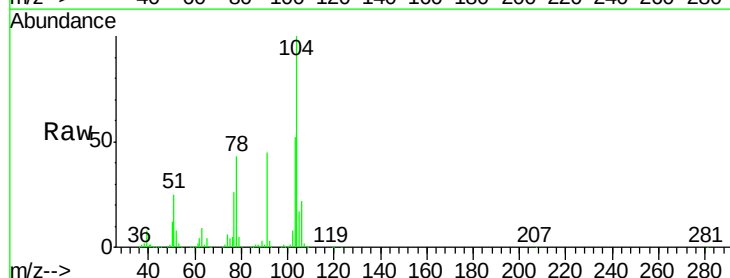
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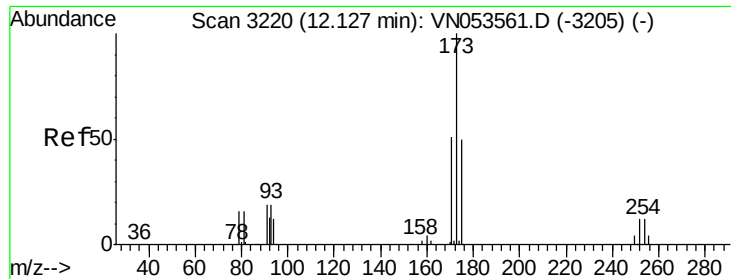
MMDadoda
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#70
Styrene
Concen: 54.753 ug/l
RT: 11.96 min Scan# 3169
Delta R.T. 0.00 min
Lab File: VN053868.D
Acq: 19 Feb 2019 15:52

Tgt Ion	Ion	Ratio	Resp	Lower	Upper
104	100				
78	47.3	38.2	910911	57.2	
103	55.7	44.4		66.6	





#71

Bromoform

Concen: 55.467 ug/l

RT: 12.12 min Scan# 3219

Delta R.T. -0.00 min

Lab File: VN053868.D

Acq: 19 Feb 2019 15:52

Instrument :

MSVOA_N

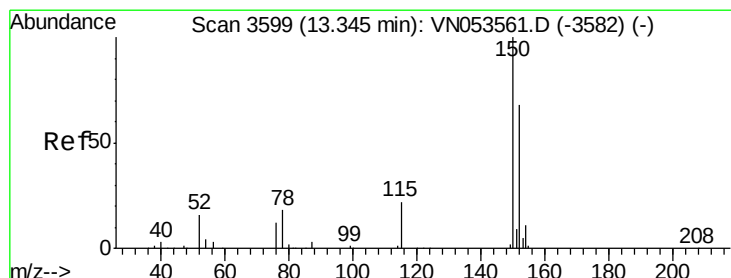
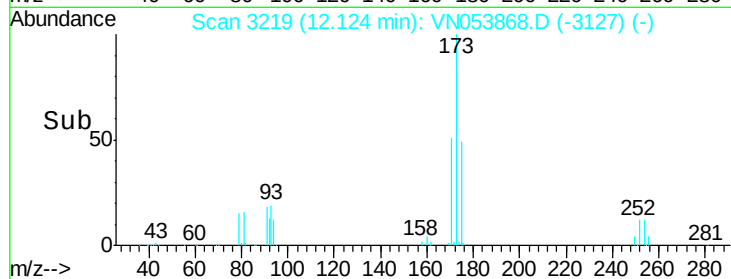
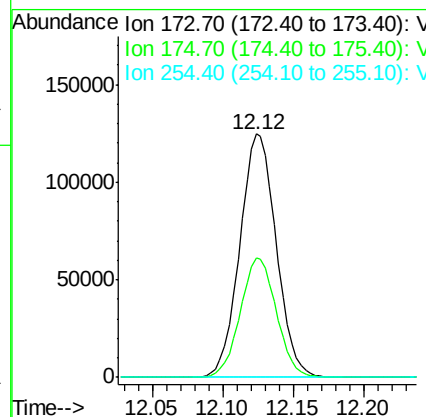
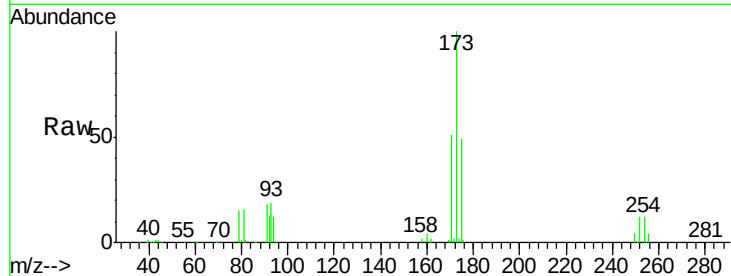
ClientSampleId :

VSTDCCC050EC

Tot Ion	Ratio	Lower	Upper
173	100		
175	48.6	24.6	74.0
254	0.1	0.2	0.2#

Manual Integrations
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#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

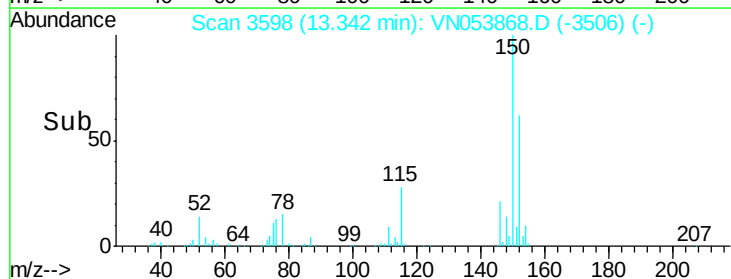
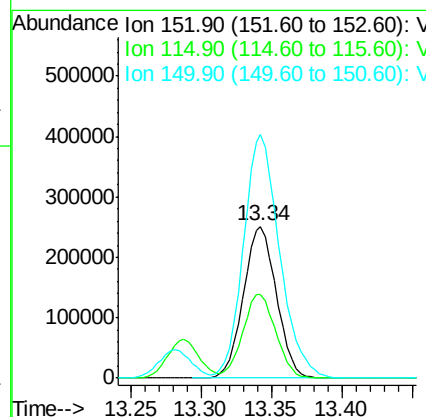
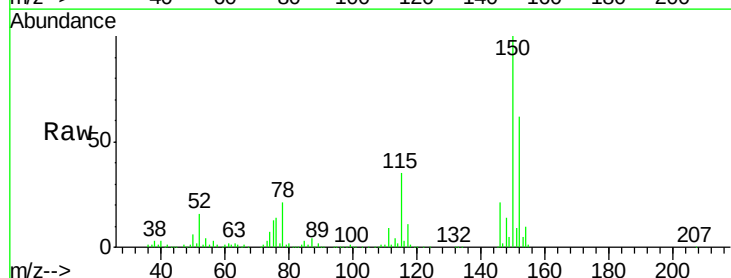
RT: 13.34 min Scan# 3598

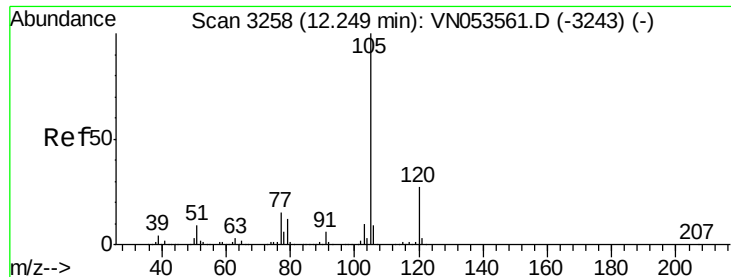
Delta R.T. -0.00 min

Lab File: VN053868.D

Acq: 19 Feb 2019 15:52

Tgt Ion	Ratio	Lower	Upper
152	100		
115	55.3	27.8	83.4
150	175.2	0.0	349.0





#73

Isopropylbenzene

Concen: 51.083 ug/l

RT: 12.25 min Scan# 3258

Delta R.T. 0.00 min

Lab File: VN053868.D

Acq: 19 Feb 2019 15:52

Instrument :

MSVOA_N

ClientSampleId :

VSTDCCC050EC

Tot Ion:105 Resp: 1479415

Ion Ratio Lower Upper

105 100

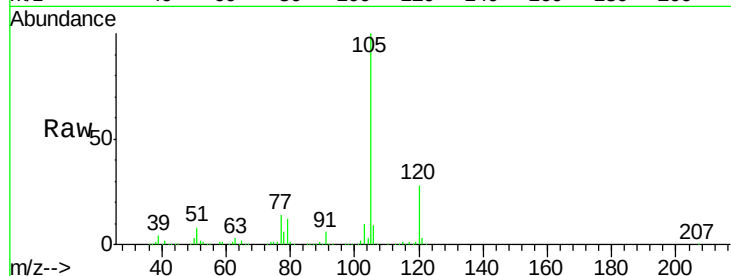
120 27.4 13.6 40.7

Manual Integrations

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Abundance Ion 105.00 (104.70 to 105.70): V

Ion 120.00 (119.70 to 120.70): V

12.25

800000

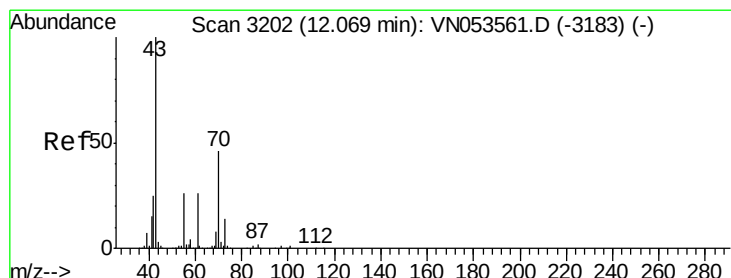
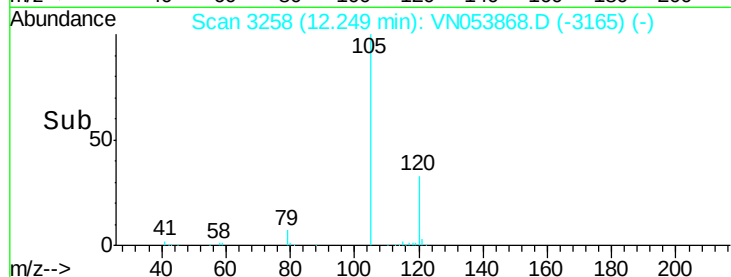
600000

400000

200000

0

Time-->



#74

N-ethyl acetate

Concen: 46.036 ug/l

RT: 12.07 min Scan# 3201

Delta R.T. -0.00 min

Lab File: VN053868.D

Acq: 19 Feb 2019 15:52

Tgt Ion: 43 Resp: 320596

Ion Ratio Lower Upper

43 100

70 45.8 35.4 53.2

55 26.6 20.9 31.3

61 25.9 20.5 30.7

Abundance Ion 43.00 (42.70 to 43.70): V

Ion 70.00 (69.70 to 70.70): V

Ion 55.00 (54.70 to 55.70): V

Ion 61.00 (60.70 to 61.70): V

300000

250000

200000

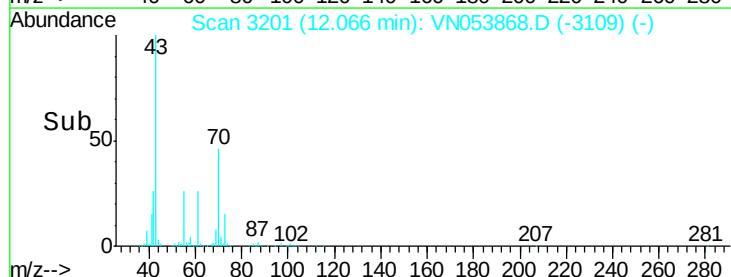
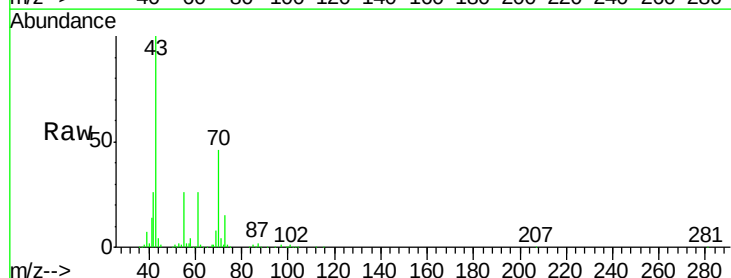
150000

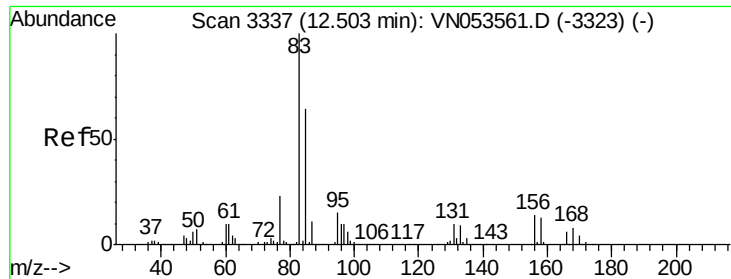
100000

50000

0

Time-->





#75

1,1,2,2-Tetrachloroethane

Concen: 45.049 ug/l

RT: 12.50 min Scan# 3337

Delta R.T. 0.00 min

Lab File: VN053868.D

Acq: 19 Feb 2019 15:52

Instrument :

MSVOA_N

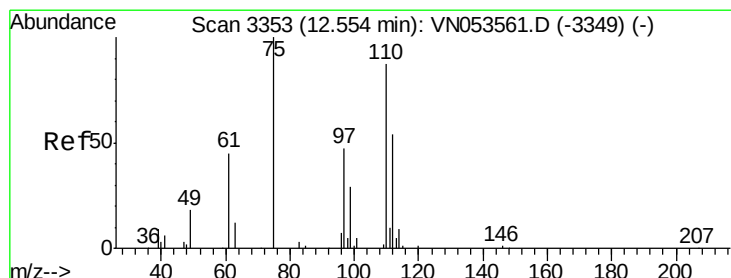
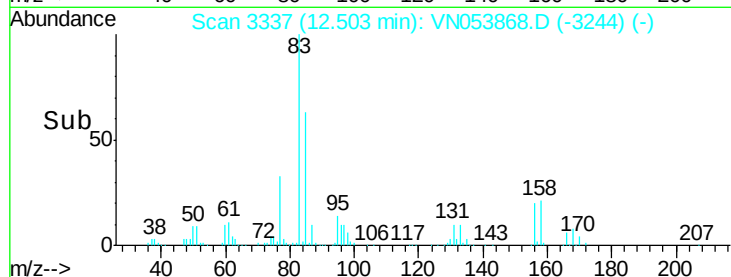
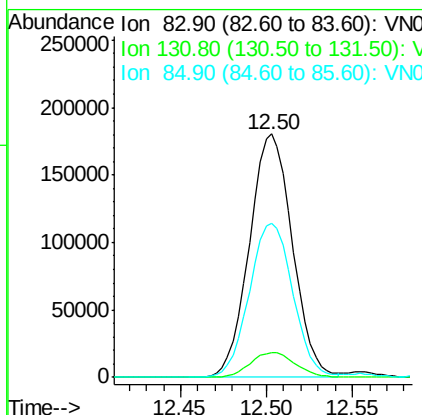
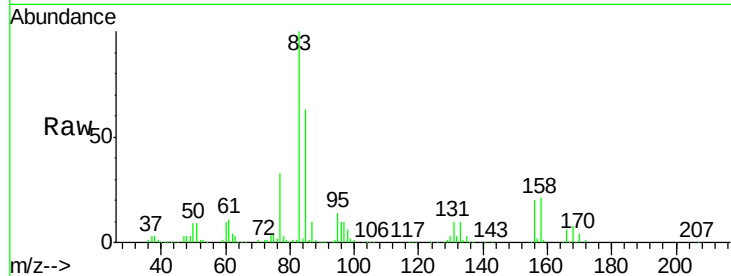
ClientSampleId :

VSTDCCC050EC

Tot Ion:	83	Resp:	312239
Ion Ratio	Lower	Upper	
83	100		
131	10.9	5.3	15.8
85	64.1	32.1	96.3

Manual Integrations
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2/20/2019 10:15:04 AM



#76

1,2,3-Trichloropropane

Concen: 56.400 ug/l m

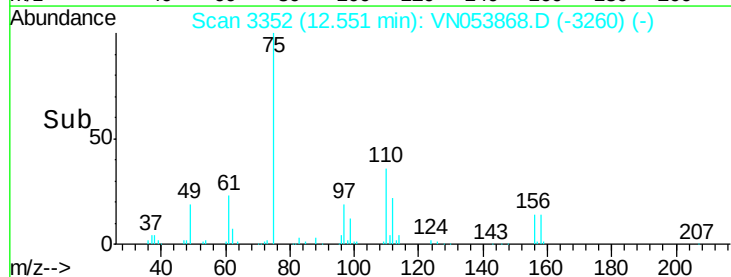
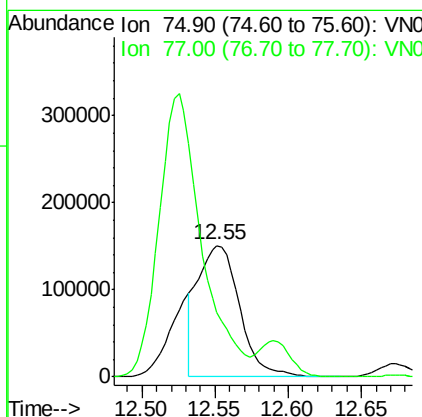
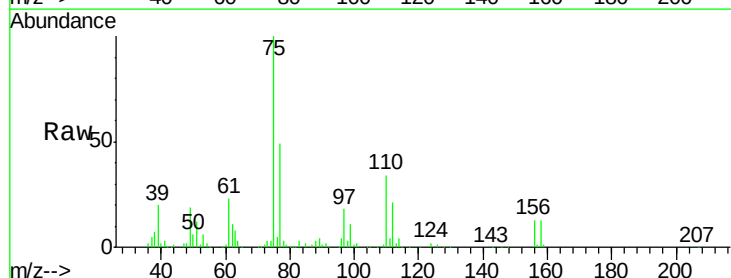
RT: 12.55 min Scan# 3352

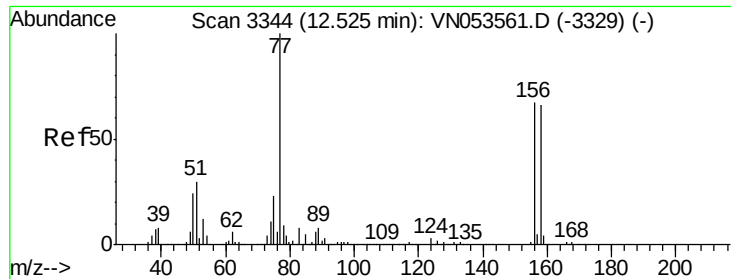
Delta R.T. -0.00 min

Lab File: VN053868.D

Acq: 19 Feb 2019 15:52

Tgt Ion:	75	Resp:	298439
Ion Ratio	Lower	Upper	
75	100		
77	0.0	0.0	0.0





#77

Bromobenzene

Concen: 49.428 ug/l

RT: 12.53 min Scan# 3344

Delta R.T. 0.00 min

Lab File: VN053868.D

Acq: 19 Feb 2019 15:52

Instrument :

MSVOA_N

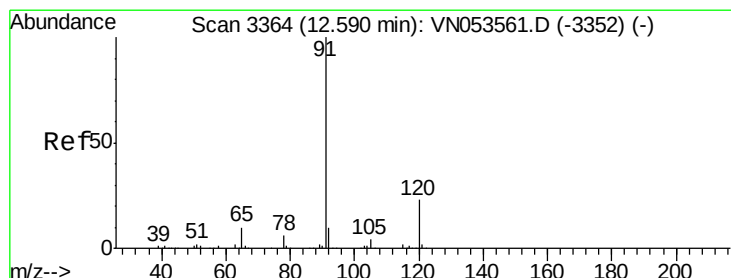
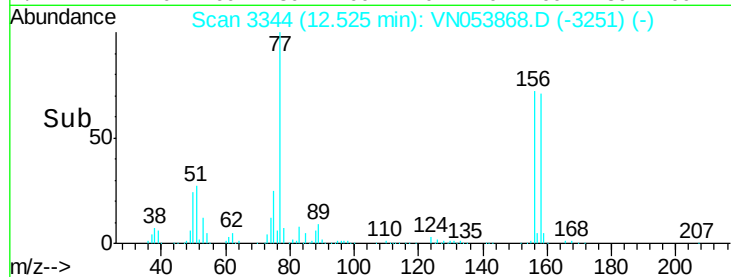
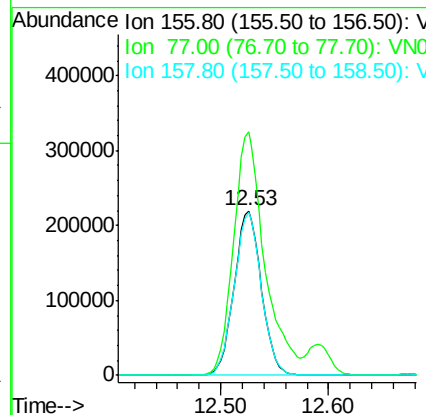
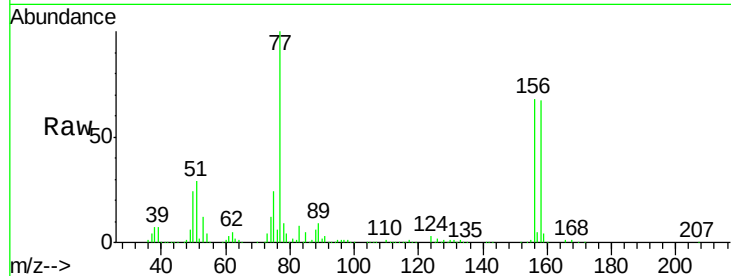
ClientSampleId :

VSTDCCC050EC

Tot Ion:	156	Resp:	385794
Ion Ratio	Lower	Upper	
156	100		
77	170.2	87.9	263.8
158	98.9	48.8	146.4

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#78

n-propylbenzene

Concen: 52.112 ug/l

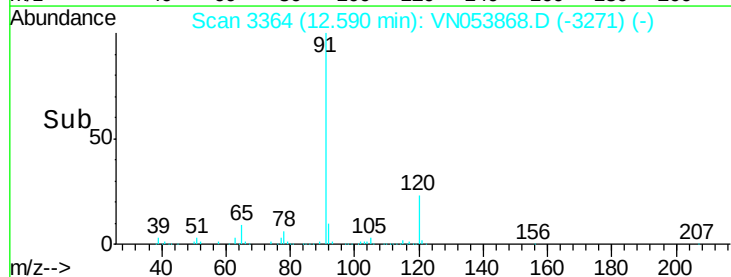
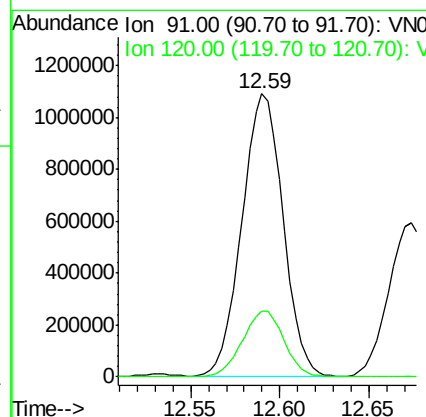
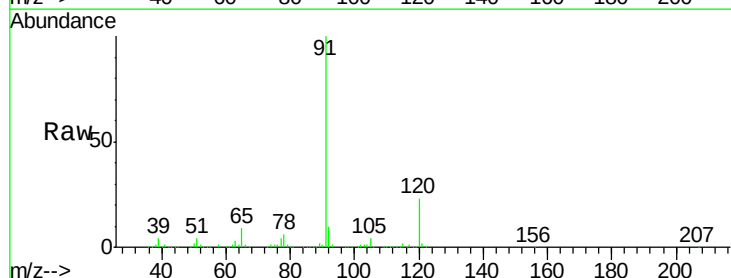
RT: 12.59 min Scan# 3364

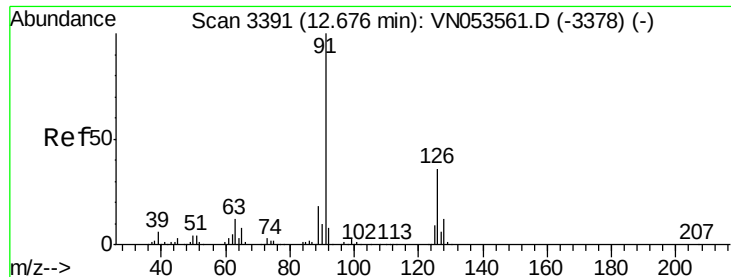
Delta R.T. 0.00 min

Lab File: VN053868.D

Acq: 19 Feb 2019 15:52

Tgt Ion:	91	Resp:	1744646
Ion Ratio	Lower	Upper	
91	100		
120	23.7	11.9	35.5





#79

2-Chlorotoluene

Concen: 50.804 ug/l

RT: 12.67 min Scan# 3390

Delta R.T. -0.00 min

Lab File: VN053868.D

Acq: 19 Feb 2019 15:52

Instrument :

MSVOA_N

ClientSampleId :

VSTDCCC050EC

Tot Ion: 91 Resp: 1009096

Ion Ratio Lower Upper

91 100

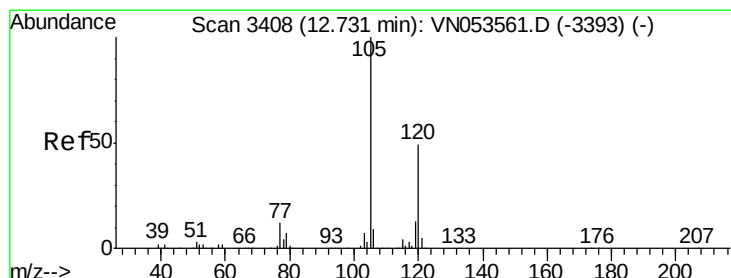
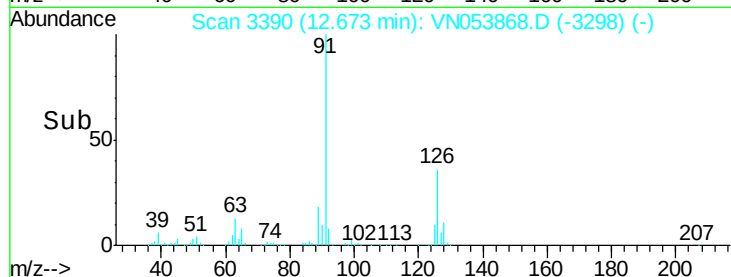
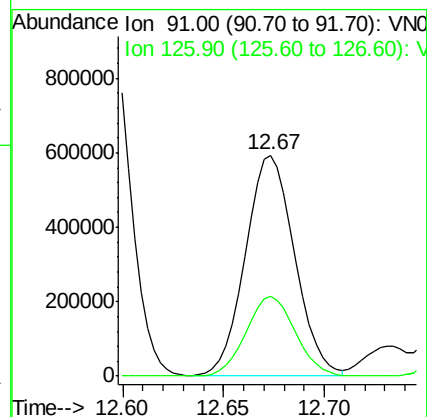
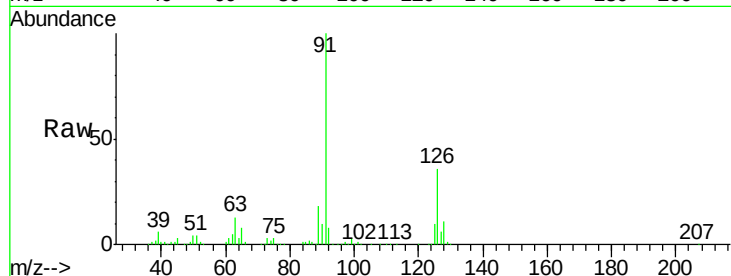
126 36.3 17.9 53.7

Manual Integrations

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#80

1,3,5-Trimethylbenzene

Concen: 53.406 ug/l

RT: 12.73 min Scan# 3408

Delta R.T. 0.00 min

Lab File: VN053868.D

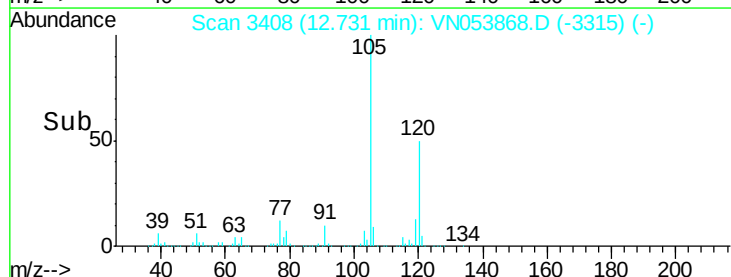
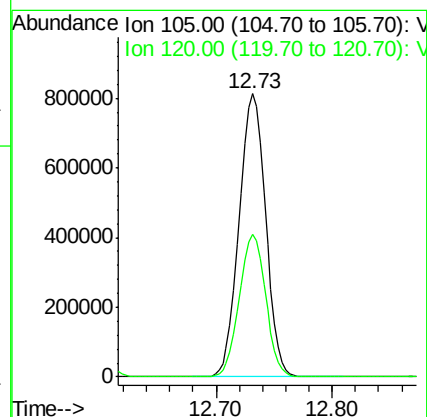
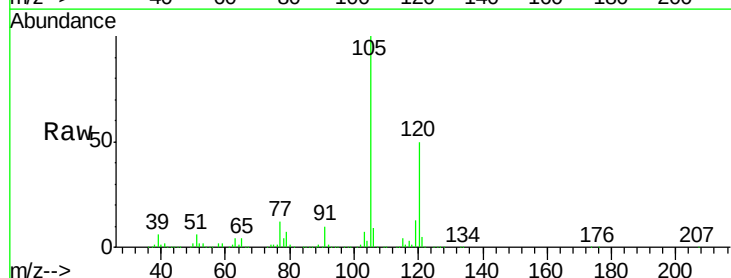
Acq: 19 Feb 2019 15:52

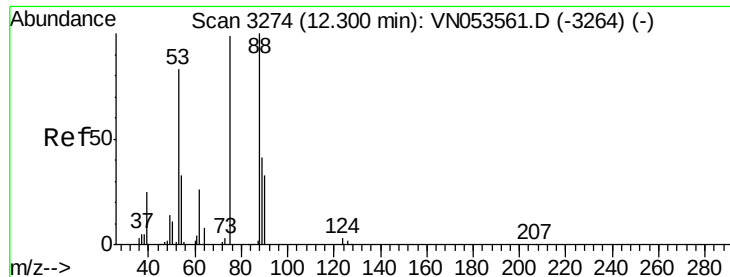
Tgt Ion: 105 Resp: 1282566

Ion Ratio Lower Upper

105 100

120 50.1 24.9 74.6





#81

trans-1,4-Dichloro-2-butene

Concen: 47.111 ug/l

RT: 12.30 min Scan# 3274

Delta R.T. 0.00 min

Lab File: VN053868.D

Acq: 19 Feb 2019 15:52

Instrument :

MSVOA_N

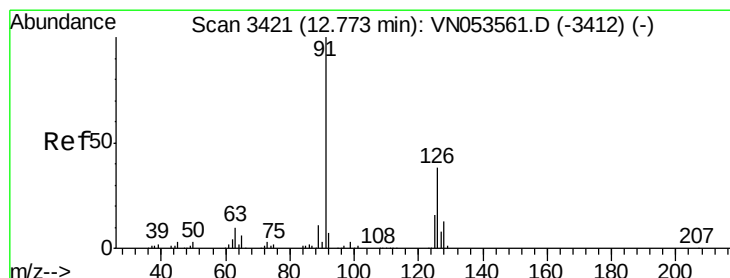
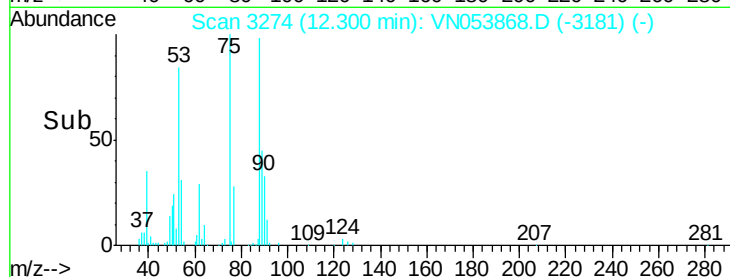
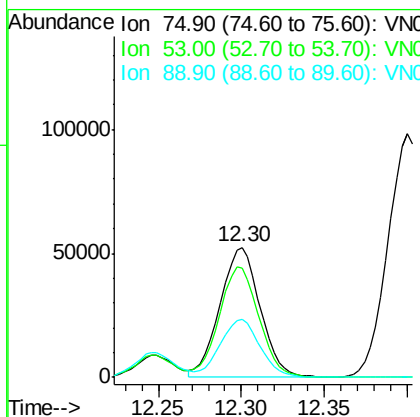
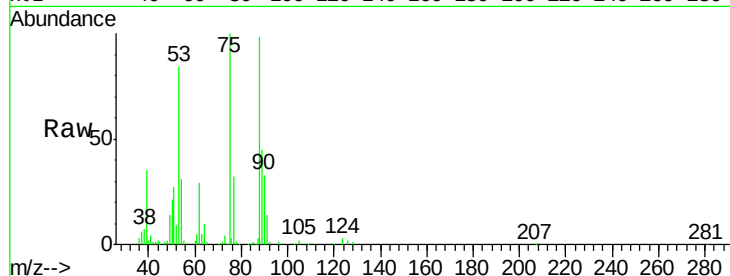
ClientSampleId :

VSTDCCC050EC

Tot Ion:	75	Resp:	88654
Ion	Ratio	Lower	Upper
75	100		
53	83.2	69.8	104.6
89	44.3	35.6	53.4

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#82

4-Chlorotoluene

Concen: 50.599 ug/l

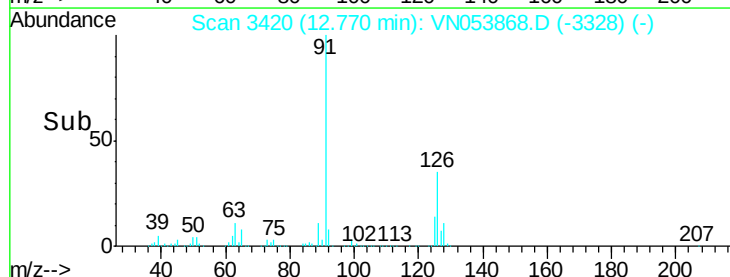
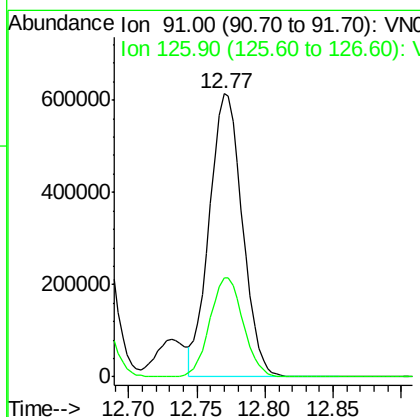
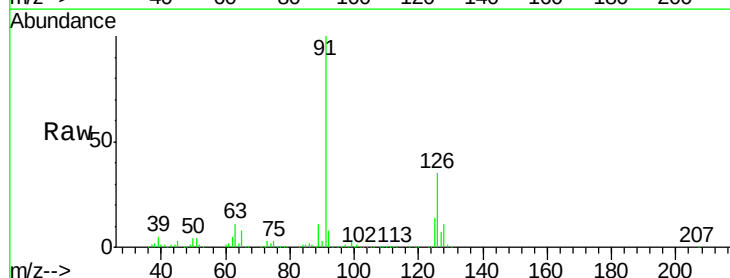
RT: 12.77 min Scan# 3420

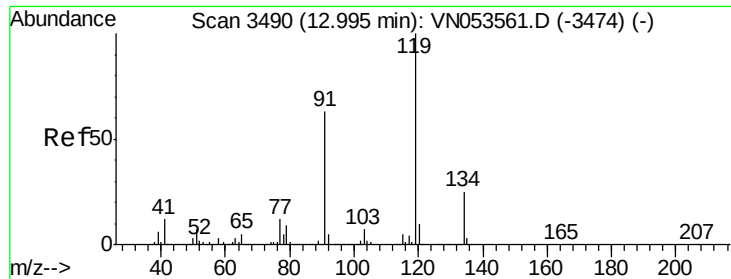
Delta R.T. -0.00 min

Lab File: VN053868.D

Acq: 19 Feb 2019 15:52

Tgt Ion:	91	Resp:	1031282
Ion	Ratio	Lower	Upper
91	100		
126	35.5	17.6	52.9





#83

tert-Butylbenzene

Concen: 53.359 ug/l

RT: 12.99 min Scan# 3489

Delta R.T. -0.00 min

Lab File: VN053868.D

Acq: 19 Feb 2019 15:52

Instrument :

MSVOA_N

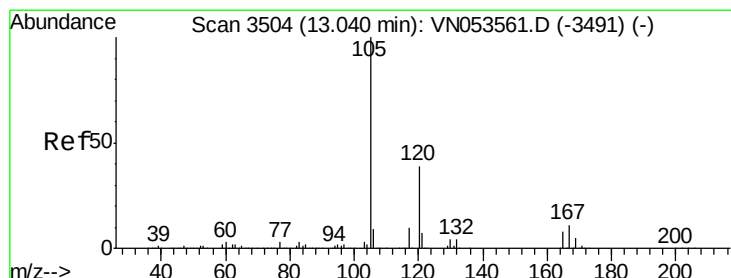
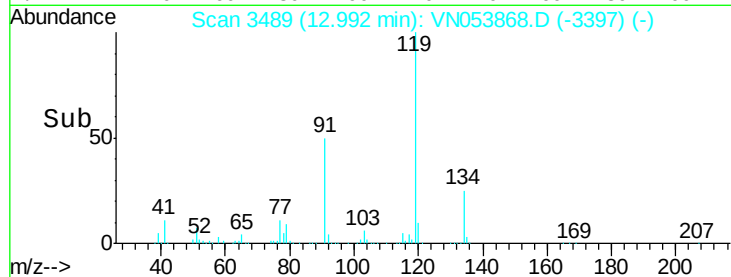
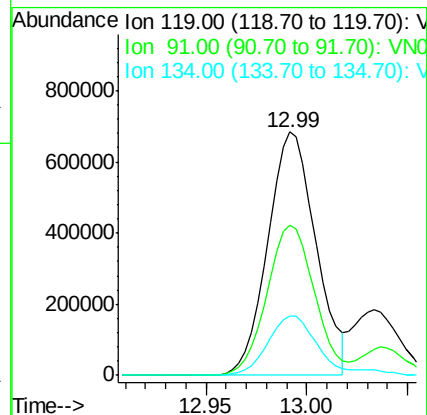
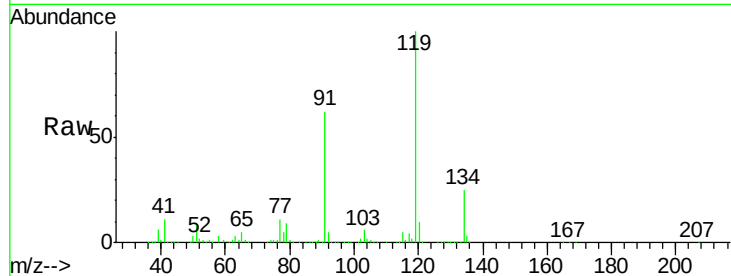
ClientSampleId :

VSTDCCC050EC

Tot Ion:119	Resp: 1132576
Ion Ratio	Lower Upper
119 100	
91 61.3	31.3 93.8
134 26.2	12.9 38.7

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#84

1,2,4-Trimethylbenzene

Concen: 53.118 ug/l

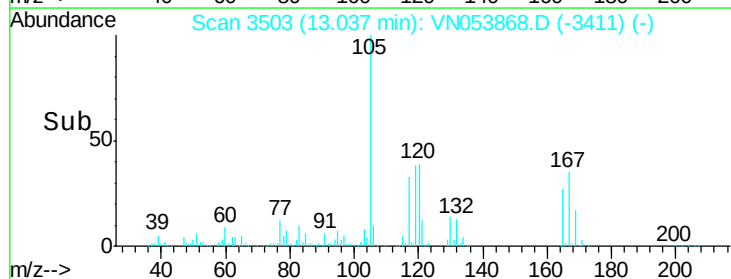
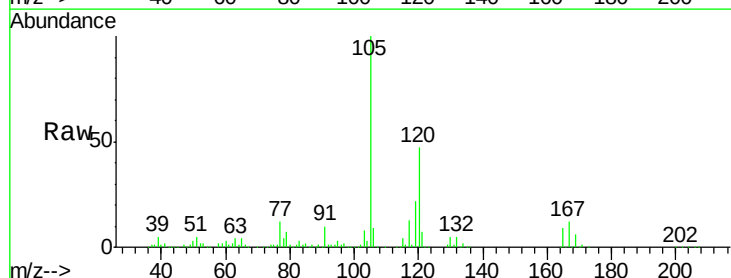
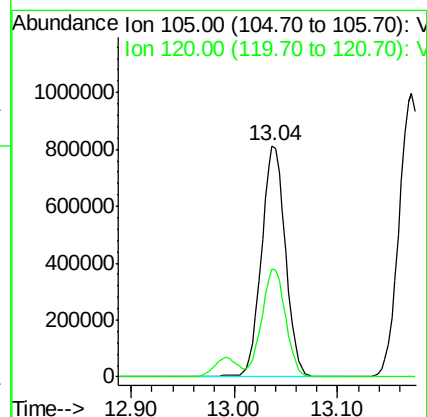
RT: 13.04 min Scan# 3503

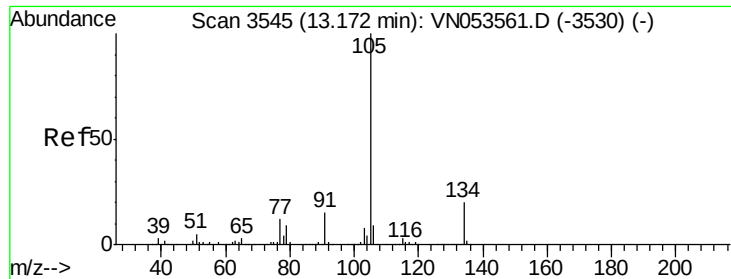
Delta R.T. -0.00 min

Lab File: VN053868.D

Acq: 19 Feb 2019 15:52

Tgt Ion:105	Resp: 1299651
Ion Ratio	Lower Upper
105 100	
120 46.3	23.0 69.0





#85

sec-Butylbenzene

Concen: 54.626 ug/l

RT: 13.17 min Scan# 3545

Delta R.T. 0.00 min

Lab File: VN053868.D

Acq: 19 Feb 2019 15:52

Instrument :

MSVOA_N

ClientSampleId :

VSTDCCC050EC

Tot Ion:105 Resp: 1577808

Ion Ratio Lower Upper

105 100

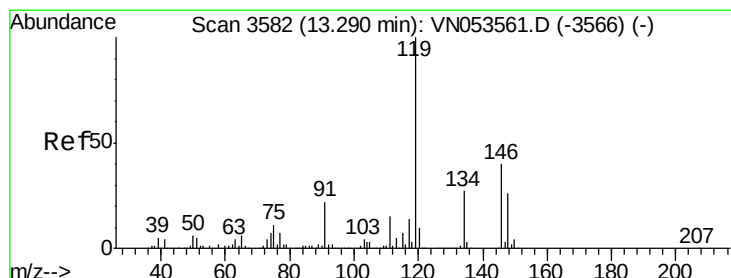
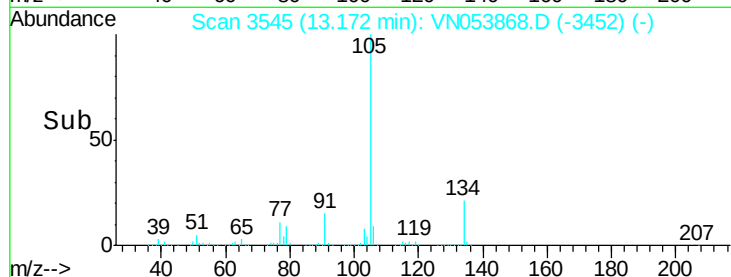
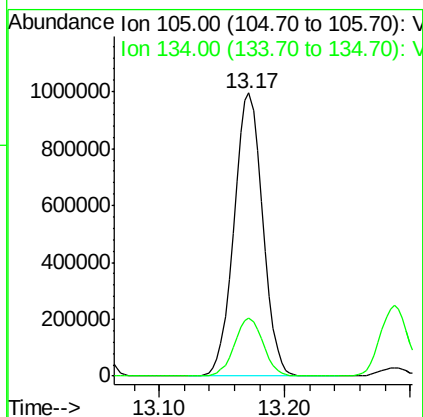
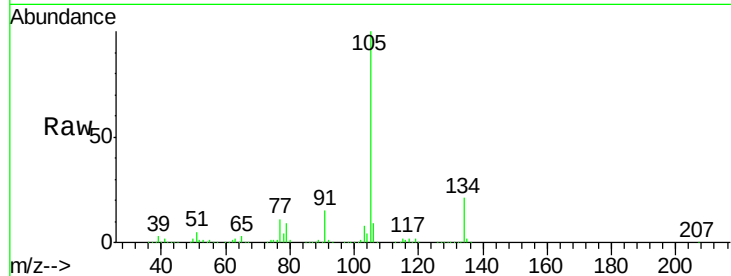
134 20.6 10.2 30.6

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#86

p-Isopropyltoluene

Concen: 56.657 ug/l

RT: 13.29 min Scan# 3581

Delta R.T. -0.00 min

Lab File: VN053868.D

Acq: 19 Feb 2019 15:52

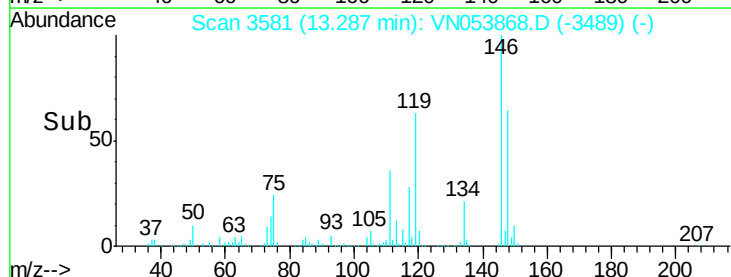
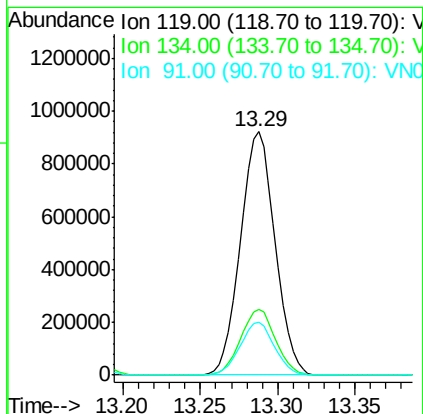
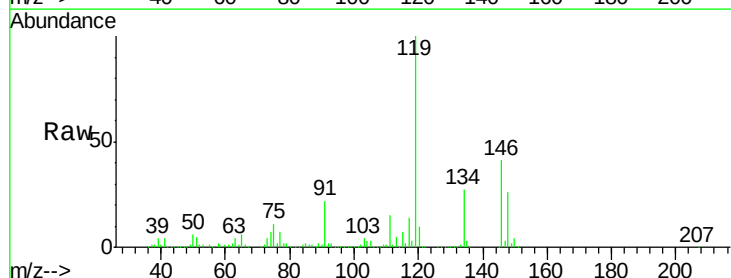
Tgt Ion:119 Resp: 1431225

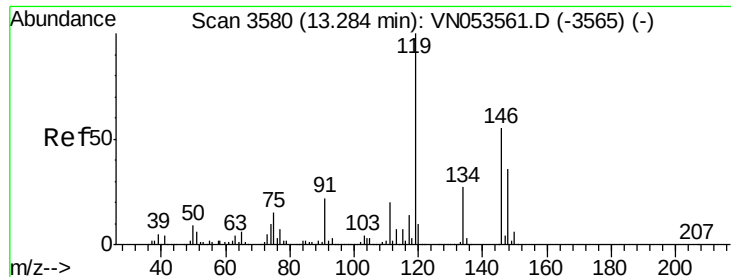
Ion Ratio Lower Upper

119 100

134 27.0 13.5 40.4

91 21.4 11.0 33.0





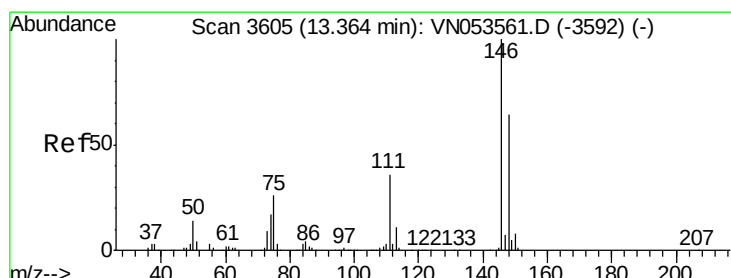
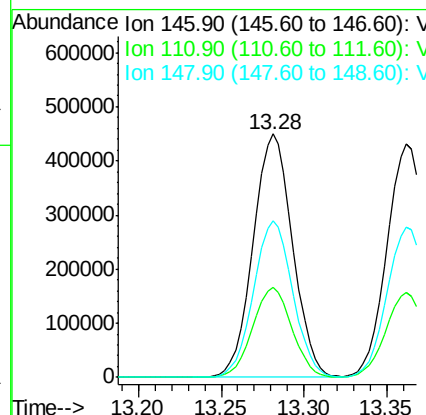
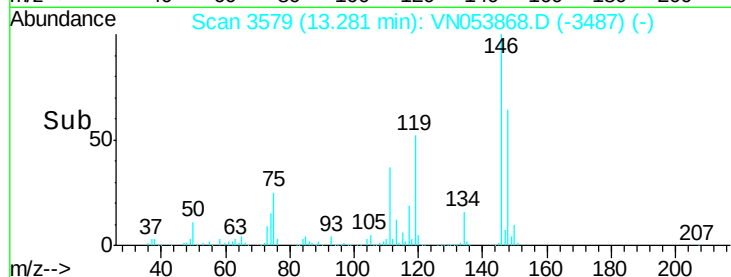
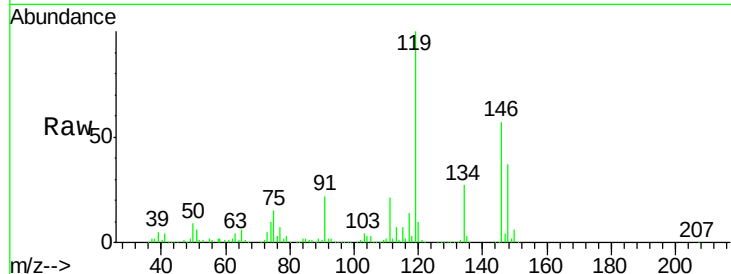
#87
 1,3-Dichlorobenzene
 Concen: 53.094 ug/l
 RT: 13.28 min Scan# 3579
 Delta R.T. -0.00 min
 Lab File: VN053868.D
 Acq: 19 Feb 2019 15:52

Instrument :
 MSVOA_N
 ClientSampleId :
 VSTDCCC050EC

Tot Ion	Ratio	Lower	Upper
146	100		
111	36.8	18.8	56.3
148	63.9	32.0	96.2

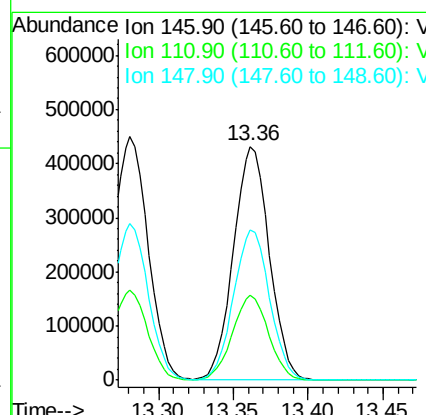
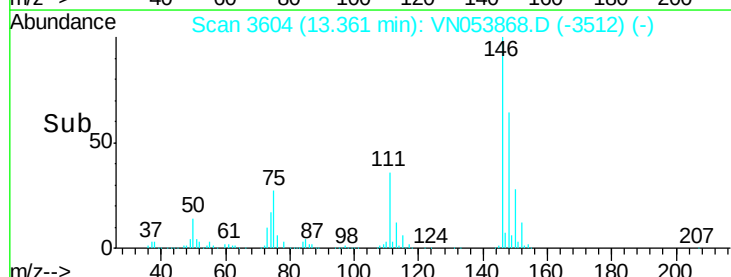
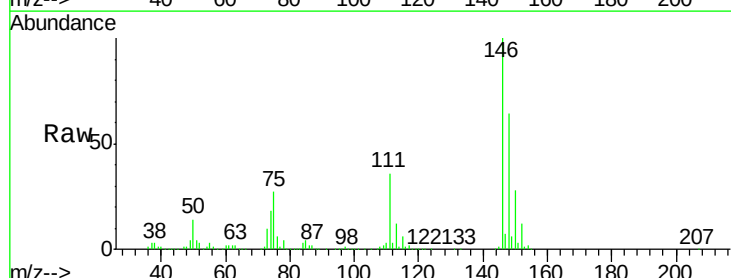
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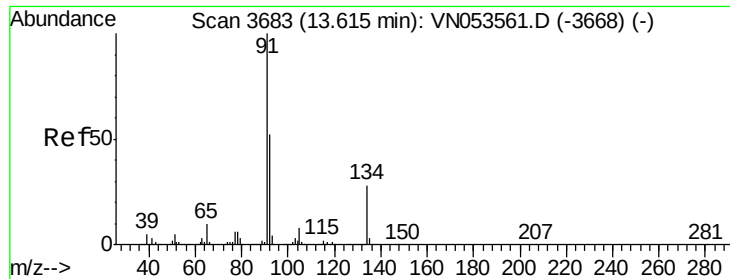
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#88
 1,4-Dichlorobenzene
 Concen: 51.925 ug/l
 RT: 13.36 min Scan# 3604
 Delta R.T. -0.00 min
 Lab File: VN053868.D
 Acq: 19 Feb 2019 15:52

Tgt Ion	Ratio	Lower	Upper
146	100		
111	36.5	18.6	55.8
148	64.7	32.4	97.0





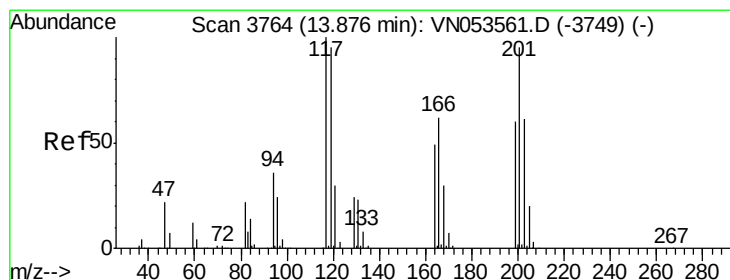
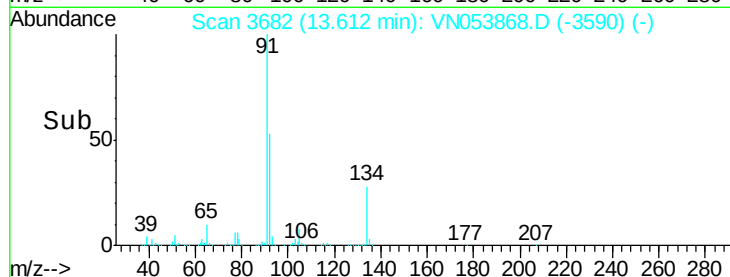
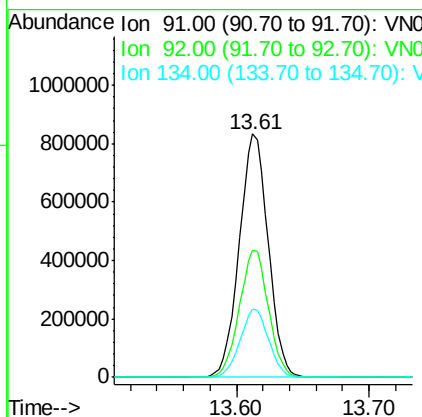
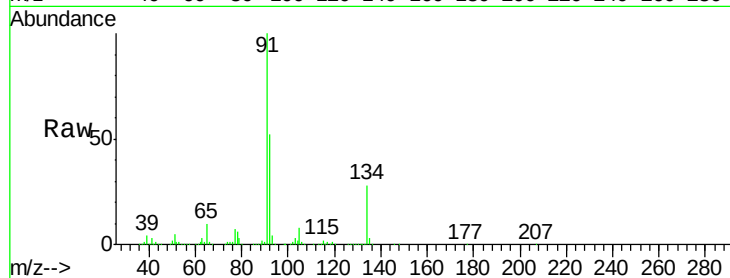
#89
n-Butylbenzene
Concen: 57.657 ug/l
RT: 13.61 min Scan# 3682
Delta R.T. -0.00 min
Lab File: VN053868.D
Acq: 19 Feb 2019 15:52

Instrument :
MSVOA_N
ClientSampleId :
VSTDCCC050EC

Tot Ion: 91 Resp: 1260679
Ion Ratio Lower Upper
91 100
92 52.3 26.3 78.8
134 27.7 13.5 40.5

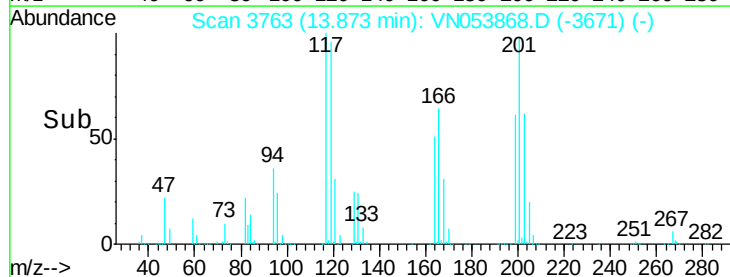
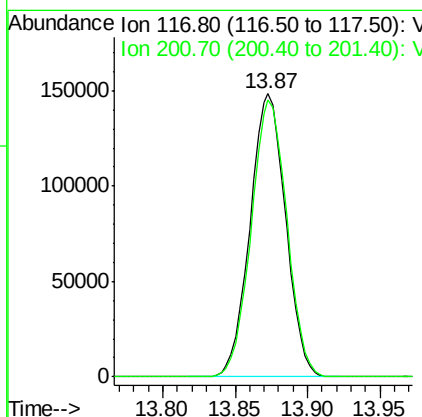
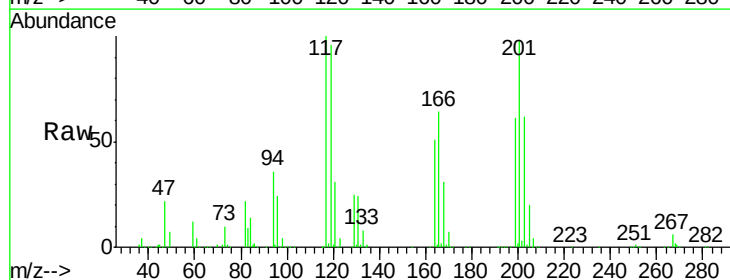
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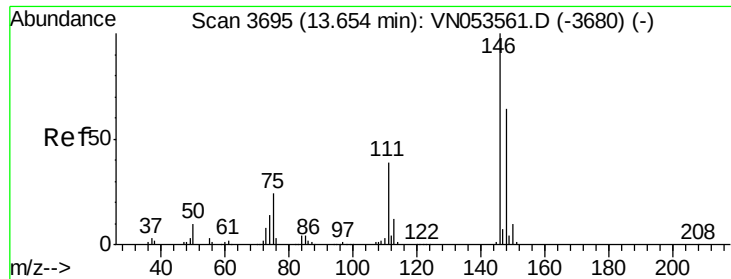
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#90
Hexachloroethane
Concen: 60.839 ug/l
RT: 13.87 min Scan# 3763
Delta R.T. -0.00 min
Lab File: VN053868.D
Acq: 19 Feb 2019 15:52

Tgt Ion: 117 Resp: 253504
Ion Ratio Lower Upper
117 100
201 97.9 46.8 140.4





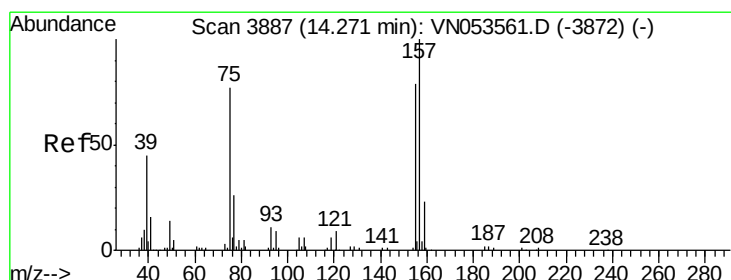
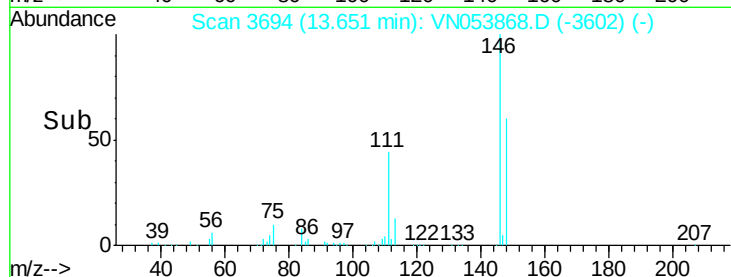
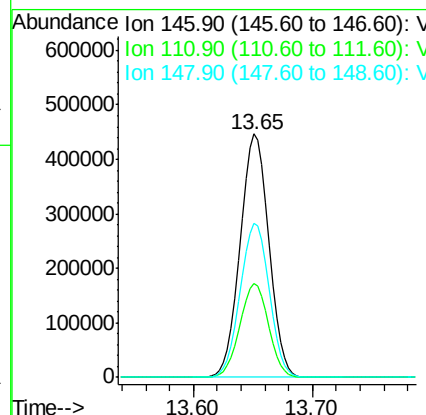
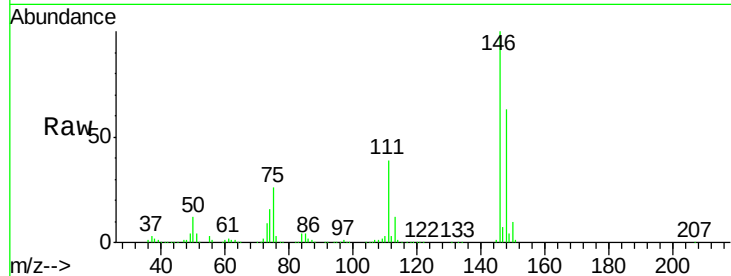
#91
 1,2-Dichlorobenzene
 Concen: 55.590 ug/l
 RT: 13.65 min Scan# 3694
 Delta R.T. -0.00 min
 Lab File: VN053868.D
 Acq: 19 Feb 2019 15:52

Instrument :
 MSVOA_N
 ClientSampleId :
 VSTDCCC050EC

Tot Ion	Ratio	Lower	Upper
146	100		
111	38.6	19.5	58.5
148	64.2	31.9	95.9

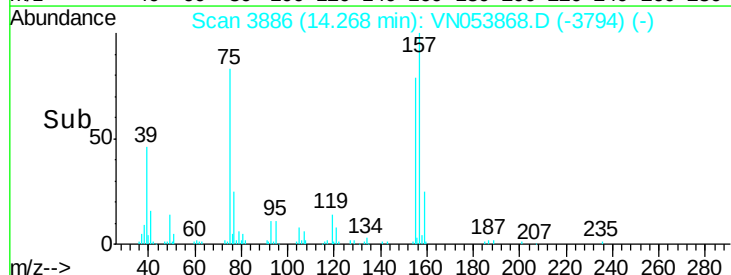
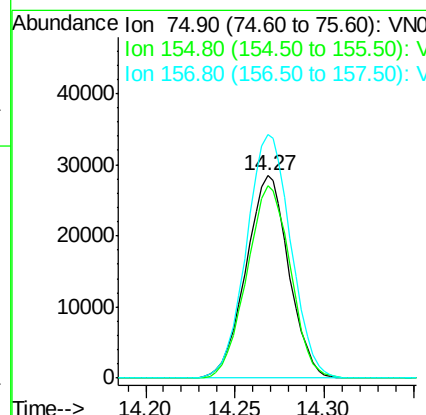
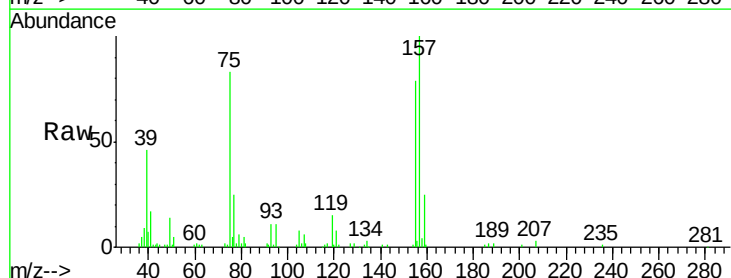
Manual Integrations
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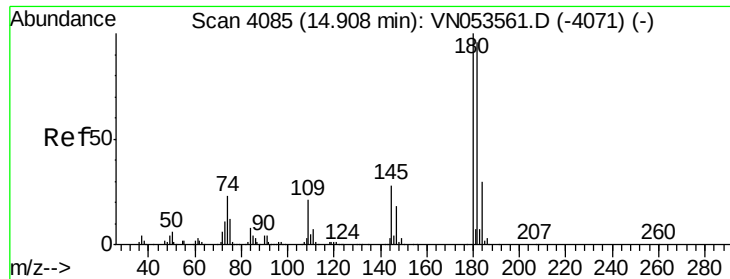
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#92
 1,2-Dibromo-3-Chloropropane
 Concen: 48.419 ug/l
 RT: 14.27 min Scan# 3886
 Delta R.T. -0.00 min
 Lab File: VN053868.D
 Acq: 19 Feb 2019 15:52

Tgt Ion	Ratio	Lower	Upper
75	100		
155	96.4	48.9	146.7
157	124.5	63.7	191.3





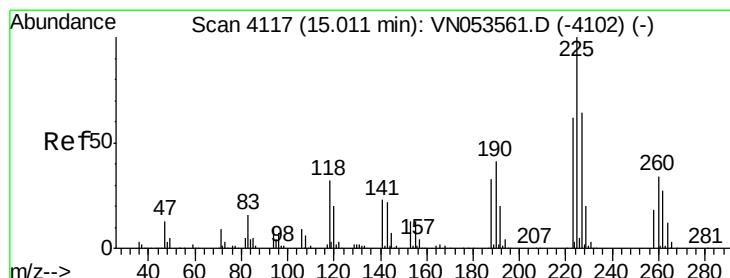
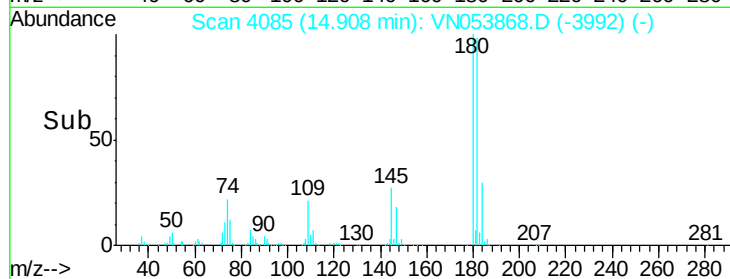
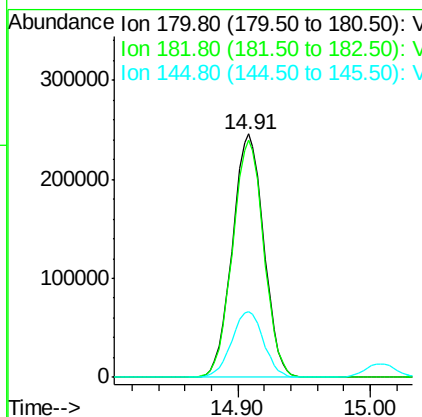
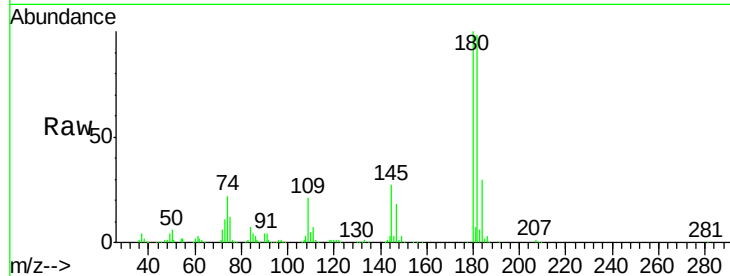
#93
 1,2,4-Trichlorobenzene
 Concen: 52.423 ug/l
 RT: 14.91 min Scan# 4085
 Delta R.T. 0.00 min
 Lab File: VN053868.D
 Acq: 19 Feb 2019 15:52

Instrument :
 MSVOA_N
 ClientSampleId :
 VSTDCCC050EC

Tot Ion	Ratio	Resp	Lower	Upper
180	100	403864		
182	96.8	48.1	144.3	
145	27.4	13.9	41.6	

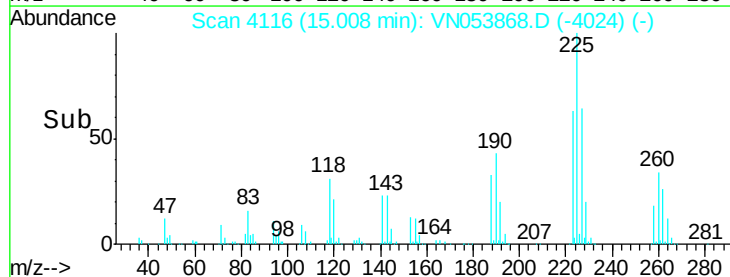
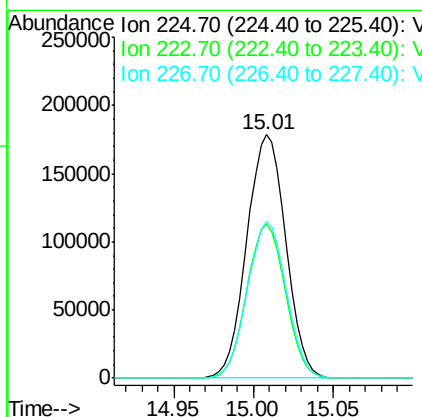
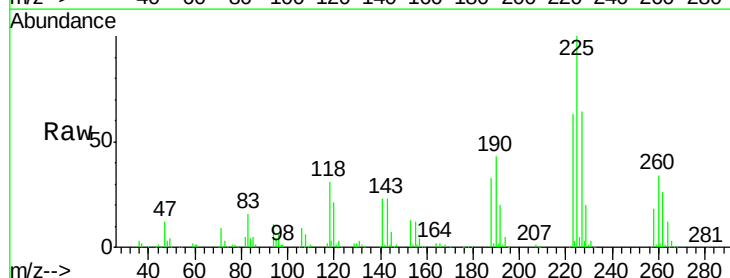
Manual Integrations
 APPROVED

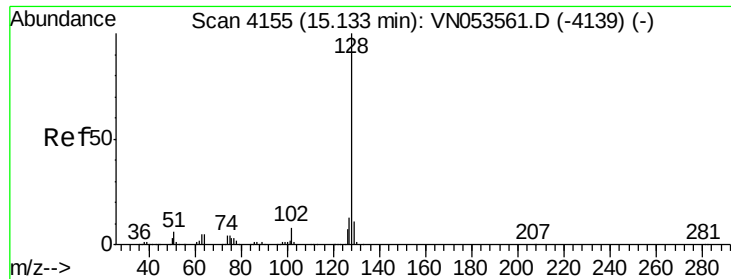
MMDadoda
 2/20/2019 10:15:04 AM



#94
 Hexachlorobutadiene
 Concen: 62.059 ug/l
 RT: 15.01 min Scan# 4116
 Delta R.T. -0.00 min
 Lab File: VN053868.D
 Acq: 19 Feb 2019 15:52

Tgt Ion	Ratio	Resp	Lower	Upper
225	100	297738		
223	62.4	31.1	93.2	
227	63.9	32.0	96.2	





#95

Naphthalene

Concen: 39.539 ug/l

RT: 15.13 min Scan# 4154

Delta R.T. -0.00 min

Lab File: VN053868.D

Acq: 19 Feb 2019 15:52

Instrument :

MSVOA_N

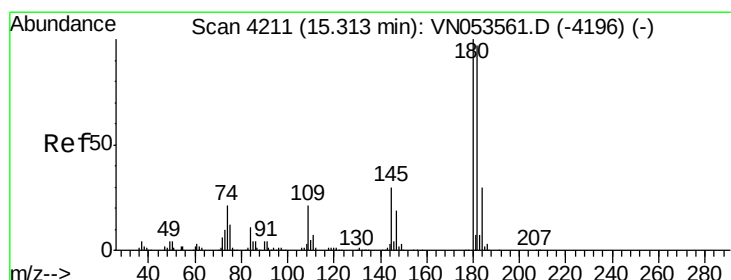
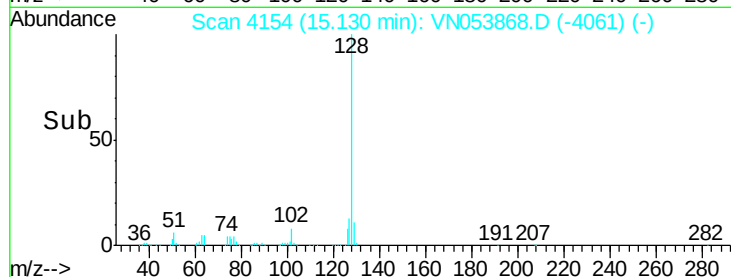
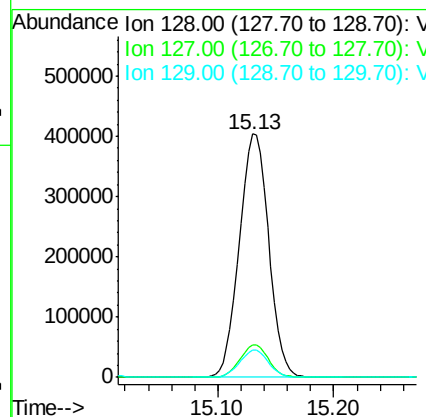
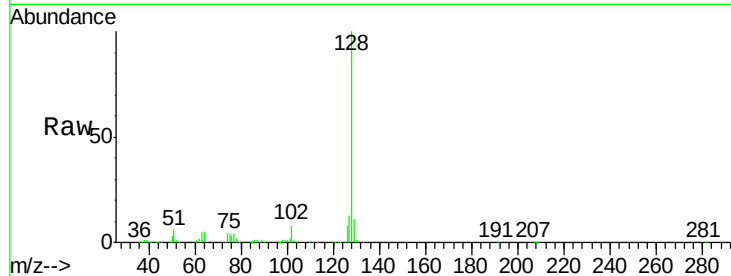
ClientSampleId :

VSTDCCC050EC

Tot Ion:	128	Resp:	708726
Ion Ratio	Lower	Upper	
128	100		
127	12.9	10.3	15.5
129	11.0	8.6	13.0

Manual Integrations
APPROVED

MMDadoda
2/20/2019 10:15:04 AM



#96

1,2,3-Trichlorobenzene

Concen: 52.516 ug/l

RT: 15.31 min Scan# 4211

Delta R.T. 0.00 min

Lab File: VN053868.D

Acq: 19 Feb 2019 15:52

Tgt Ion:	180	Resp:	375397
Ion Ratio	Lower	Upper	
180	100		
182	94.6	47.9	143.8
145	28.6	14.7	44.1

