

Data Path : Z:\VOASRV\HPCHEM1\MSVOA N\DATA\VN081718\
 Data File : VN050721.D
 Acq On : 17 Aug 2018 11:20
 Operator : MD\SY
 Sample : VSTDCCC050
 Misc : 5.00mL/MSVOA N/WATER
 ALS Vial : 8 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 VSTDCCC050

Manual Integrations
 APPROVED

MMDadoda
 8/20/2018 10:52:52 AM

Quant Time: Aug 17 23:22:02 2018
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_N\METHODS\82N081418W.M
 Quant Title : SW846 8260
 QLast Update : Tue Aug 14 08:07:08 2018
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	7.66	168	671937	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	8.59	114	937897	50.00	ug/l	0.00
63) Chlorobenzene-d5	11.41	117	872496	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.35	152	462292	50.00	ug/l	0.00

System Monitoring Compounds

33) 1,2-Dichloroethane-d4	8.03	65	383184	45.24	ug/l	0.00
Spiked Amount	50.000		Recovery	=	90.48%	
35) Dibromofluoromethane	7.59	113	358819	47.92	ug/l	0.00
Spiked Amount	50.000		Recovery	=	95.84%	
50) Toluene-d8	10.09	98	1364401	48.42	ug/l	0.00
Spiked Amount	50.000		Recovery	=	96.84%	
62) 4-Bromofluorobenzene	12.40	95	460102	49.42	ug/l	0.00
Spiked Amount	50.000		Recovery	=	98.84%	

Target Compounds

						Qvalue
2) Dichlorodifluoromethane	1.85	85	335846	44.34	ug/l	99
3) Chloromethane	2.06	50	430074	46.56	ug/l	100
4) Vinyl Chloride	2.18	62	442561	43.98	ug/l	99
5) Bromomethane	2.54	94	226044	41.44	ug/l	98
6) Chloroethane	2.69	64	267080	47.69	ug/l	99
7) Trichlorofluoromethane	3.00	101	578704	43.83	ug/l	98
8) Diethyl Ether	3.41	74	208488	47.47	ug/l	100
9) 1,1,2-Trichlorotrifluoroet	3.75	101	367840	46.07	ug/l	99
10) Methyl Iodide	3.95	142	217728	39.98	ug/l	100
11) Tert butyl alcohol	4.80	59	118213	255.61	ug/l	99
12) 1,1-Dichloroethene	3.73	96	327340	44.90	ug/l	100
13) Acrolein	3.61	56	27688	153.26	ug/l	98
14) Allyl chloride	4.32	41	536018	47.26	ug/l	98
15) Acrylonitrile	4.99	53	646626	254.58	ug/l	98
16) Acetone	3.82	43	593741	280.93	ug/l	99
17) Carbon Disulfide	4.05	76	991756	43.23	ug/l	100
18) Methyl Acetate	4.32	43	328404	55.31	ug/l	99
19) Methyl tert-butyl Ether	5.05	73	924588	49.83	ug/l	99
20) Methylene Chloride	4.55	84	390351	48.45	ug/l	98
21) trans-1,2-Dichloroethene	5.04	96	365512	46.24	ug/l	97
22) Diisopropyl ether	5.95	45	1148324	49.39	ug/l	98
23) Vinyl Acetate	5.90	43	3836577	252.23	ug/l	99
24) 1,1-Dichloroethane	5.85	63	677581	45.04	ug/l	99
25) 2-Butanone	6.84	43	915233	263.55	ug/l	99
26) 2,2-Dichloropropane	6.82	77	554394	55.05	ug/l	99
27) cis-1,2-Dichloroethene	6.82	96	406809	46.22	ug/l	97
28) Bromochloromethane	7.19	49	331207	48.37	ug/l	99
29) Tetrahydrofuran	7.21	42	472206	260.42	ug/l	99
30) Chloroform	7.37	83	678024	44.47	ug/l	99
31) Cyclohexane	7.65	56	608734	47.39	ug/l	99
32) 1,1,1-Trichloroethane	7.57	97	575498	44.84	ug/l	99
36) 1,1-Dichloropropene	7.79	75	532746	51.03	ug/l	99
37) Ethyl Acetate	6.93	43	318160	53.91	ug/l	99
38) Carbon Tetrachloride	7.77	117	521704	48.17	ug/l	99

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Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
39) Methylcyclohexane	9.08	83	581528	53.80	ug/l	100
40) Benzene	8.04	78	1574656	49.58	ug/l	99
41) Methacrylonitrile	7.17	41	160215	50.22	ug/l #	89
42) 1,2-Dichloroethane	8.12	62	479941	49.30	ug/l	100
43) Isopropyl Acetate	8.16	43	550019	51.14	ug/l	99
44) Trichloroethene	8.83	130	412957	48.54	ug/l	99
45) 1,2-Dichloropropane	9.12	63	415855	49.18	ug/l	98
46) Dibromomethane	9.21	93	246522	49.37	ug/l	97
47) Bromodichloromethane	9.40	83	518795	48.61	ug/l	99
48) Methyl methacrylate	9.20	41	282381	52.18	ug/l	99
49) 1,4-Dioxane	9.20	88	79448	1114.38	ug/l	96
51) 4-Methyl-2-Pentanone	9.99	43	1976006	271.66	ug/l	100
52) Toluene	10.16	92	977851	51.56	ug/l	99
53) t-1,3-Dichloropropene	10.38	75	527547	53.07	ug/l	99
54) cis-1,3-Dichloropropene	9.84	75	613529	53.80	ug/l	99
55) 1,1,2-Trichloroethane	10.56	97	353019	49.83	ug/l	98
56) Ethyl methacrylate	10.43	69	443655	49.12	ug/l	99
57) 1,3-Dichloropropane	10.71	76	597084	51.41	ug/l	100
58) 2-Chloroethyl Vinyl ether	9.70	63	1078553	249.18	ug/l	99
59) 2-Hexanone	10.75	43	1338282	285.07	ug/l	99
60) Dibromochloromethane	10.90	129	401448	51.34	ug/l	99
61) 1,2-Dibromoethane	11.00	107	348461	51.65	ug/l	100
64) Tetrachloroethene	10.63	164	390008	48.13	ug/l	98
65) Chlorobenzene	11.43	112	1070018	49.28	ug/l	99
66) 1,1,1,2-Tetrachloroethane	11.51	131	393426	48.33	ug/l	98
67) Ethyl Benzene	11.51	91	1843049	52.57	ug/l	100
68) m/p-Xylenes	11.62	106	1426925	106.41	ug/l	99
69) o-Xylene	11.95	106	677668	53.00	ug/l	99
70) Styrene	11.96	104	1128208	49.62	ug/l	99
71) Bromoform	12.13	173	275168	50.98	ug/l #	100
73) Isopropylbenzene	12.25	105	1810311	50.12	ug/l	99
74) N-amyl acetate	12.07	43	475744	50.63	ug/l	99
75) 1,1,2,2-Tetrachloroethane	12.50	83	439256	52.50	ug/l	99
76) 1,2,3-Trichloropropane	12.55	75	351945m	47.06	ug/l	
77) Bromobenzene	12.53	156	465347	47.45	ug/l	100
78) n-propylbenzene	12.59	91	2096884	52.06	ug/l	100
79) 2-Chlorotoluene	12.67	91	1242255	49.47	ug/l	100
80) 1,3,5-Trimethylbenzene	12.73	105	1512503	52.30	ug/l	99
81) trans-1,4-Dichloro-2-buten	12.30	75	110862	53.31	ug/l	98
82) 4-Chlorotoluene	12.77	91	1259094	50.74	ug/l	100
83) tert-Butylbenzene	12.99	119	1271547	50.65	ug/l	98
84) 1,2,4-Trimethylbenzene	13.04	105	1537550	52.97	ug/l	100
85) sec-Butylbenzene	13.17	105	1728245	52.68	ug/l	100
86) p-Isopropyltoluene	13.29	119	1524276	54.84	ug/l	100
87) 1,3-Dichlorobenzene	13.28	146	825070	49.42	ug/l	99
88) 1,4-Dichlorobenzene	13.36	146	804732	48.57	ug/l	100
89) n-Butylbenzene	13.62	91	1237898	55.15	ug/l	99
90) Hexachloroethane	13.88	117	258523	46.25	ug/l	99
91) 1,2-Dichlorobenzene	13.65	146	795820	48.86	ug/l	100
92) 1,2-Dibromo-3-Chloropropan	14.27	75	64308	49.90	ug/l	99

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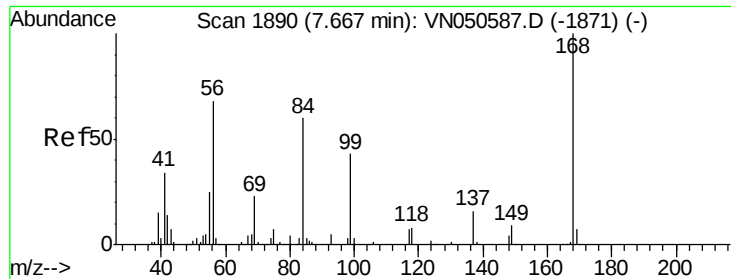
Manual Integrations
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MMDadoda
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Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
93) 1,2,4-Trichlorobenzene	14.91	180	389859	46.82	ug/l	100
94) Hexachlorobutadiene	15.01	225	254635	50.99	ug/l	99
95) Naphthalene	15.13	128	755886	43.09	ug/l	99
96) 1,2,3-Trichlorobenzene	15.32	180	367522	47.19	ug/l	99

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



#1

Pentafluorobenzene

Concen: 50.00 ug/l

RT: 7.66 min Scan# 1889

Delta R.T. -0.00 min

Lab File: VN050721.D

Acq: 17 Aug 2018 11:20

Instrument :

MSVOA_N

ClientSampleId :

VSTDCCC050

Tot Ion:168 Resp: 671937

Ion Ratio Lower Upper

168 100

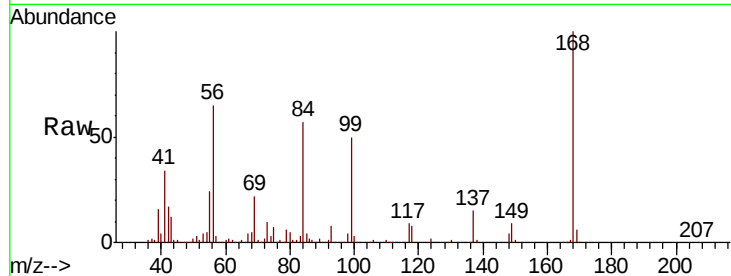
99 49.9 40.8 61.2

Manual Integrations

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8/20/2018 10:52:52 AM



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VN

7.66

300000

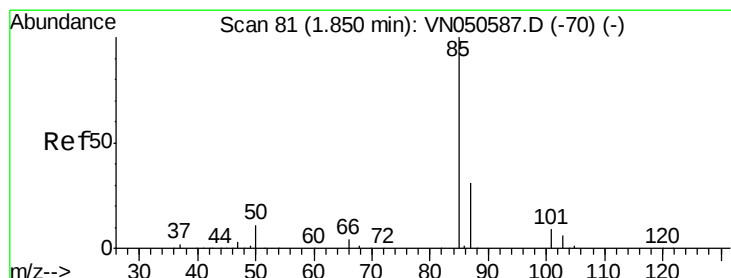
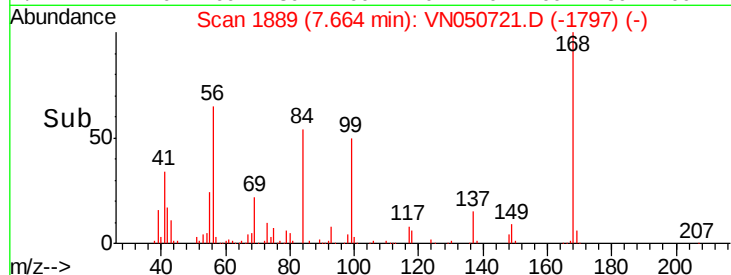
200000

100000

0

7.50 7.60 7.70 7.80

Time-->



#2

Dichlorodifluoromethane

Concen: 44.34 ug/l

RT: 1.85 min Scan# 81

Delta R.T. 0.00 min

Lab File: VN050721.D

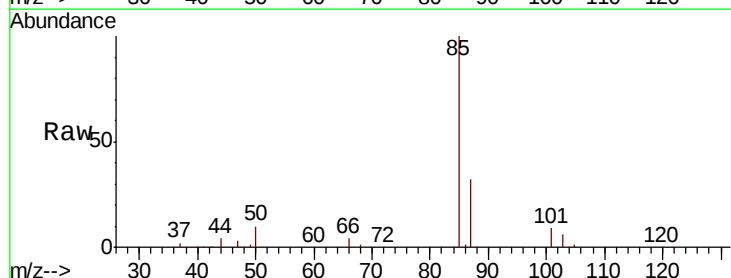
Acq: 17 Aug 2018 11:20

Tgt Ion: 85 Resp: 335846

Ion Ratio Lower Upper

85 100

87 31.8 15.8 47.3



Abundance Ion 84.90 (84.60 to 85.60): VN

Ion 86.90 (86.60 to 87.60): VN

1.85

250000

200000

150000

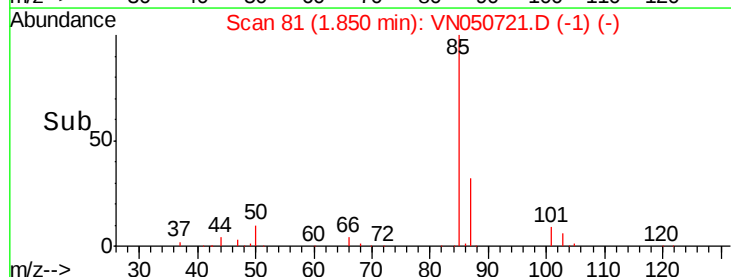
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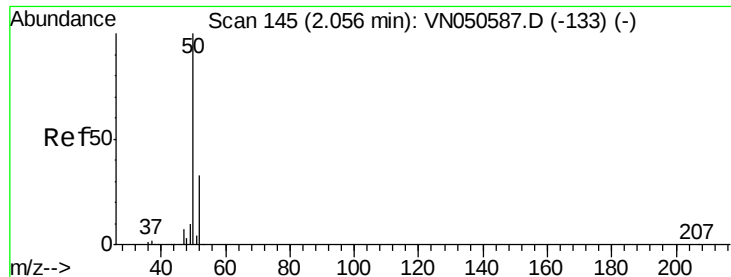
50000

0

1.75 1.80 1.85 1.90 1.95

Time-->





#3

Chloromethane

Concen: 46.56 ug/l

RT: 2.06 min Scan# 145

Delta R.T. 0.00 min

Lab File: VN050721.D

Acq: 17 Aug 2018 11:20

Instrument :

MSVOA_N

ClientSampleId :

VSTDCCC050

Tot Ion: 50 Resp: 430074

Ion Ratio Lower Upper

50 100

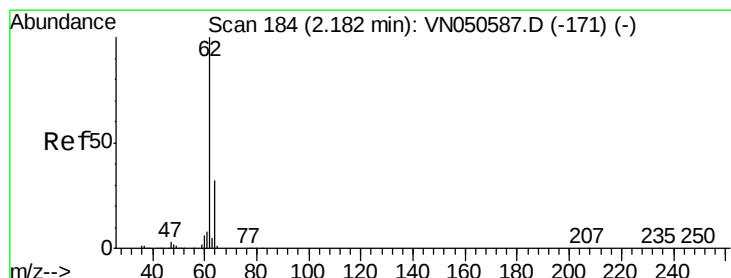
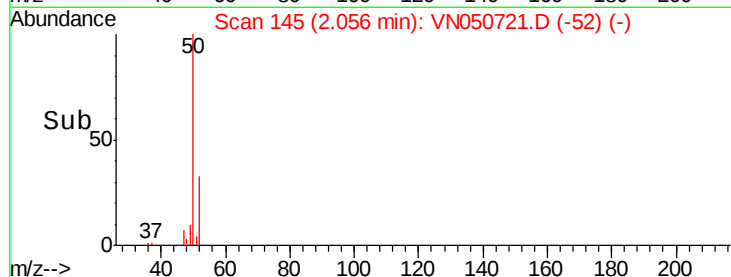
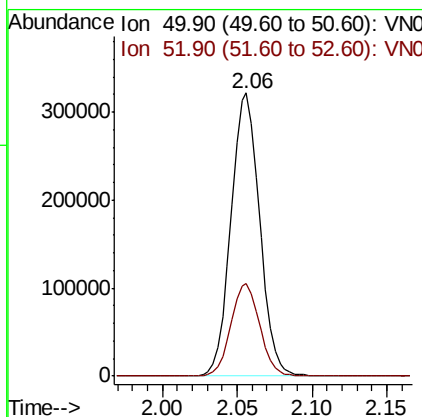
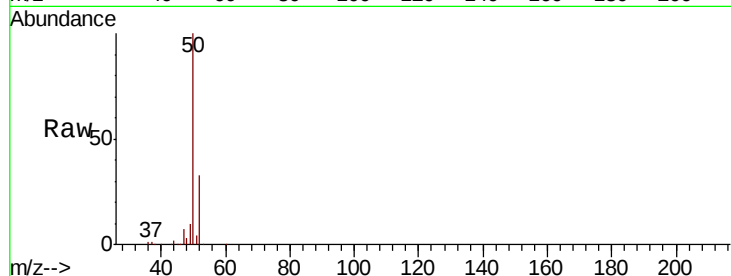
52 32.6 26.0 39.0

Manual Integrations

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8/20/2018 10:52:52 AM



#4

Vinyl Chloride

Concen: 43.98 ug/l

RT: 2.18 min Scan# 184

Delta R.T. 0.00 min

Lab File: VN050721.D

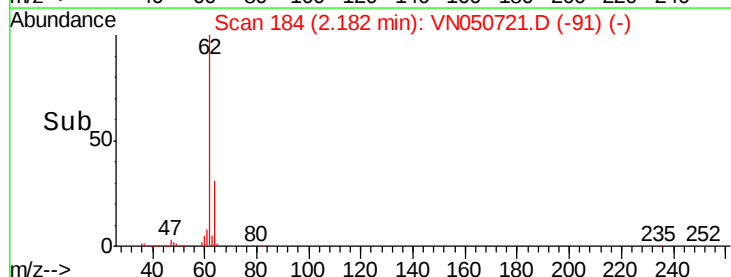
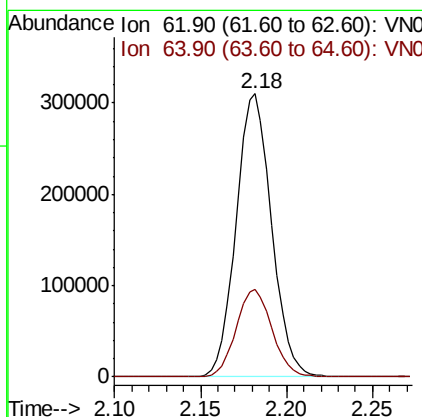
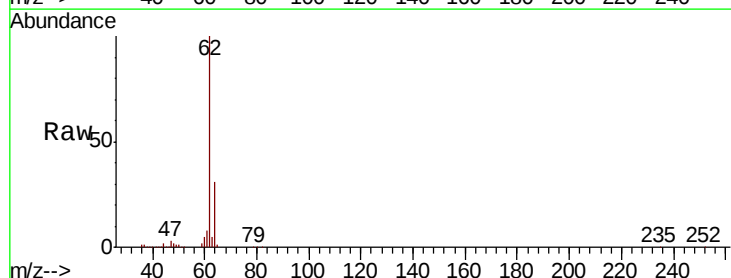
Acq: 17 Aug 2018 11:20

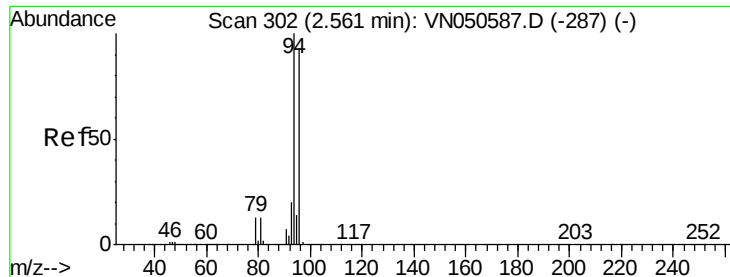
Tgt Ion: 62 Resp: 442561

Ion Ratio Lower Upper

62 100

64 30.8 25.2 37.8





#5

Bromomethane

Concen: 41.44 ug/l

RT: 2.54 min Scan# 295

Delta R.T. -0.02 min

Lab File: VN050721.D

Acq: 17 Aug 2018 11:20

Instrument :

MSVOA_N

ClientSampled :

VSTDCCC050

Tot Ion: 94 Resp: 226044

Ion Ratio Lower Upper

94 100

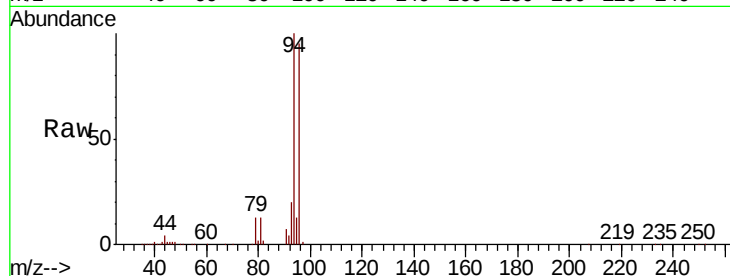
96 94.9 74.0 111.0

Manual Integrations

APPROVED

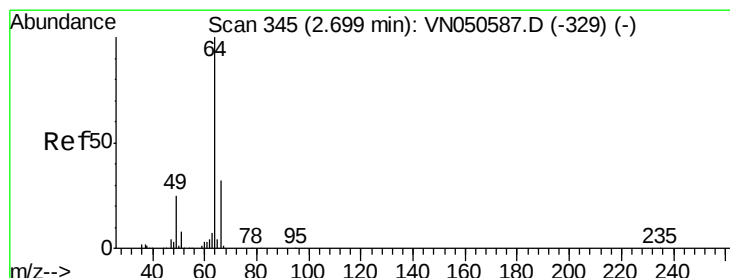
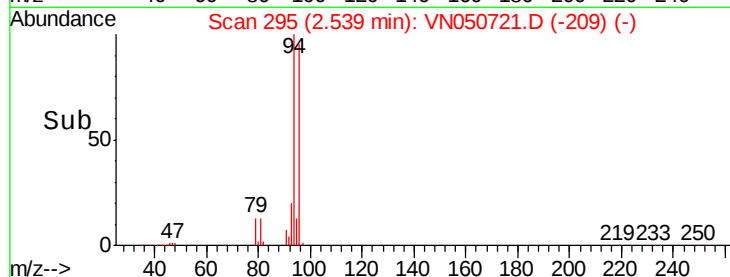
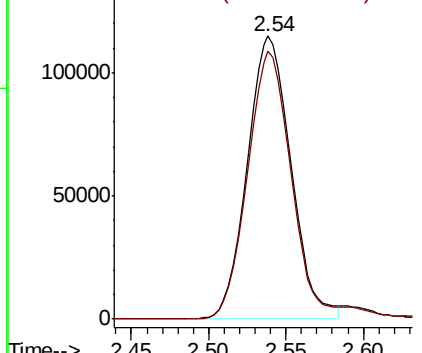
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8/20/2018 10:52:52 AM



Abundance Ion 93.90 (93.60 to 94.60): VN0

Ion 95.90 (95.60 to 96.60): VN0



#6

Chloroethane

Concen: 47.69 ug/l

RT: 2.69 min Scan# 341

Delta R.T. -0.01 min

Lab File: VN050721.D

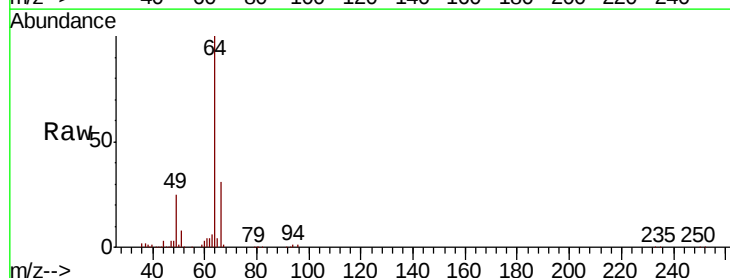
Acq: 17 Aug 2018 11:20

Tgt Ion: 64 Resp: 267080

Ion Ratio Lower Upper

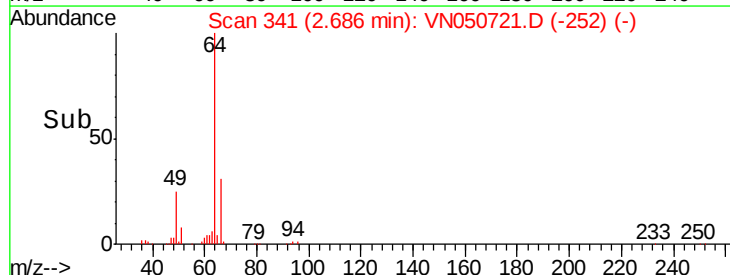
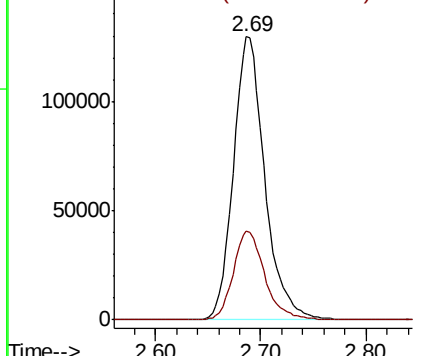
64 100

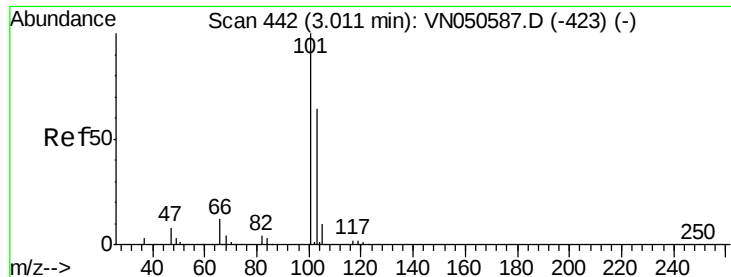
66 31.4 25.7 38.5



Abundance Ion 63.90 (63.60 to 64.60): VN0

Ion 65.90 (65.60 to 66.60): VN0





#7

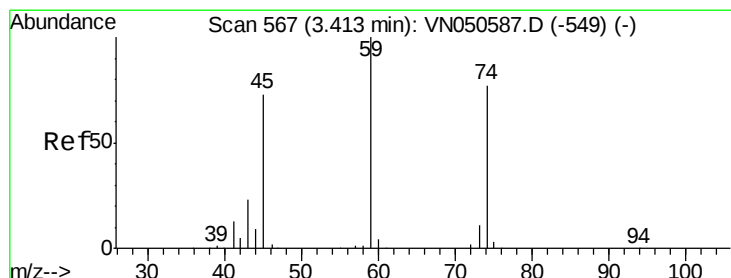
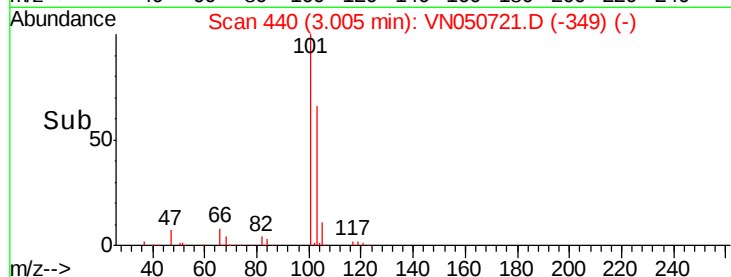
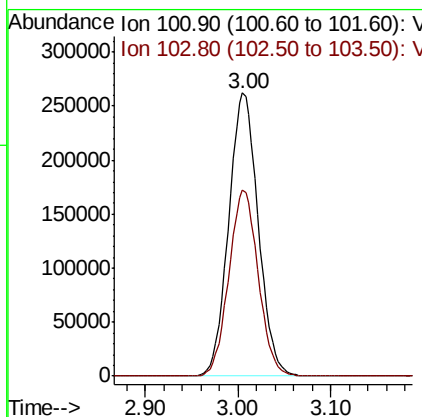
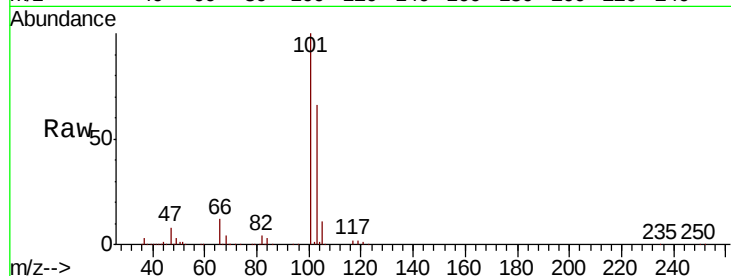
Trichlorofluoromethane
Concen: 43.83 ug/l
RT: 3.00 min Scan# 440
Delta R.T. -0.01 min
Lab File: VN050721.D
Acq: 17 Aug 2018 11:20

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VSTDCCC050

Tot Ion	Ratio	Lower	Upper
101	100		
103	65.7	51.4	77.0

Manual Integrations
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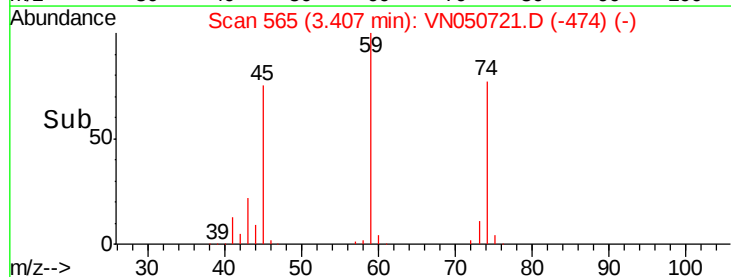
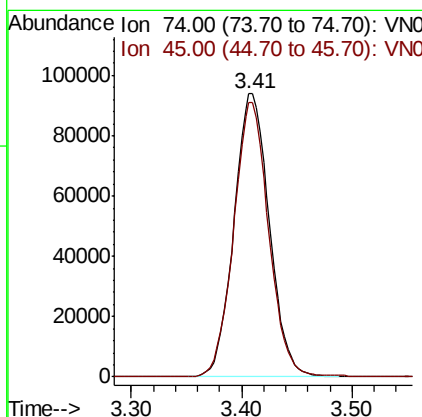
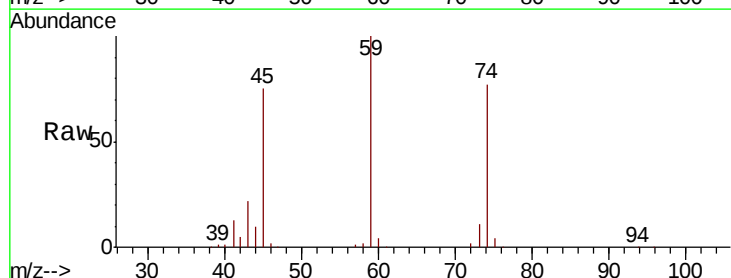
MMDadoda
8/20/2018 10:52:52 AM

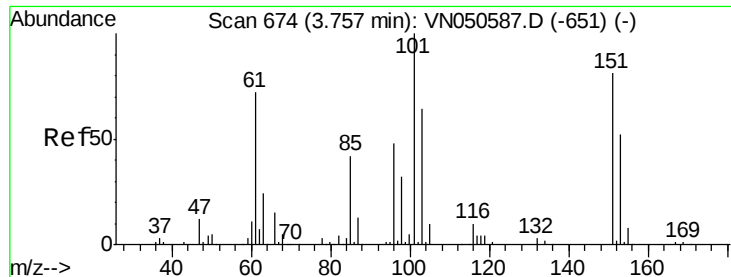


#8

Diethyl Ether
Concen: 47.47 ug/l
RT: 3.41 min Scan# 565
Delta R.T. -0.01 min
Lab File: VN050721.D
Acq: 17 Aug 2018 11:20

Tgt Ion	Ratio	Lower	Upper
74	100		
45	96.0	48.0	144.2





#9

1,1,2-Trichlorotrifluoroethane

Concen: 46.07 ug/l

RT: 3.75 min Scan# 672

Delta R.T. -0.01 min

Lab File: VN050721.D

Acq: 17 Aug 2018 11:20

Instrument :

MSVOA_N

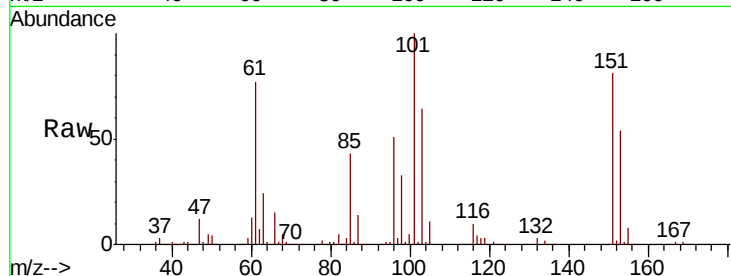
ClientSampleId :

VSTDCCC050

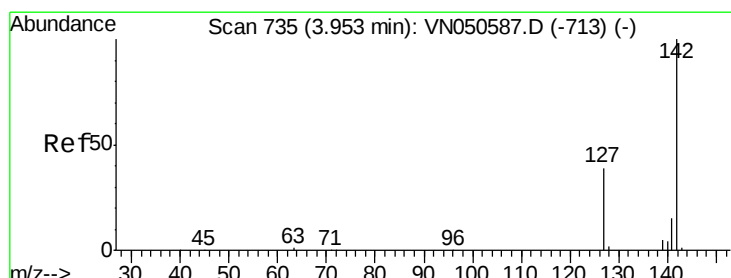
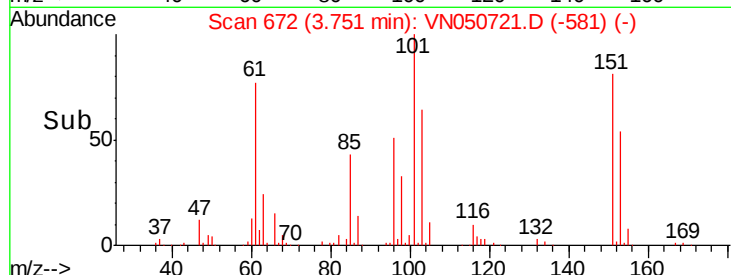
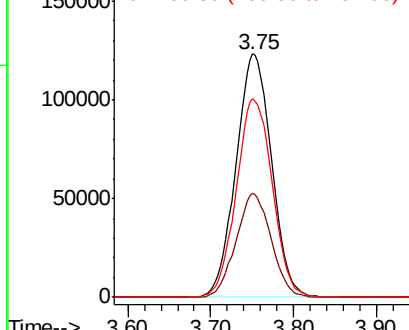
Tot Ion:	101	Resp:	367840
Ion Ratio	Lower	Upper	
101	100		
85	42.1	33.4	50.0
151	82.7	66.6	100.0

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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: 39.98 ug/l

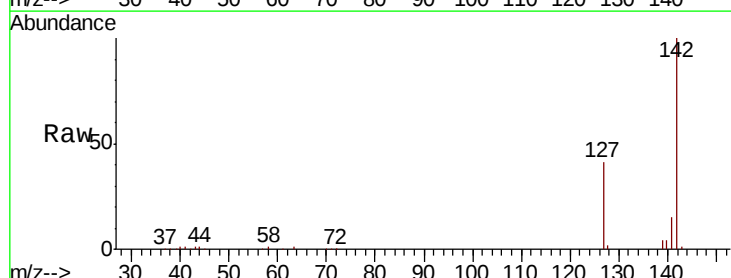
RT: 3.95 min Scan# 733

Delta R.T. -0.01 min

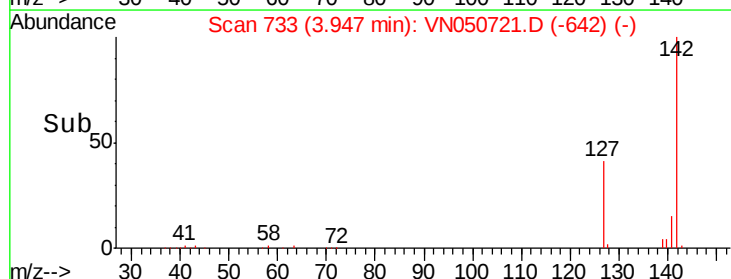
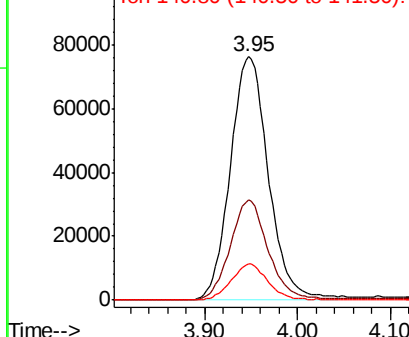
Lab File: VN050721.D

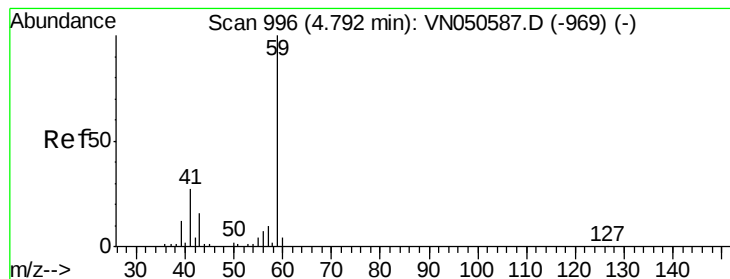
Acq: 17 Aug 2018 11:20

Tgt Ion:	142	Resp:	217728
Ion Ratio	Lower	Upper	
142	100		
127	40.9	32.6	49.0
141	14.1	11.5	17.3



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

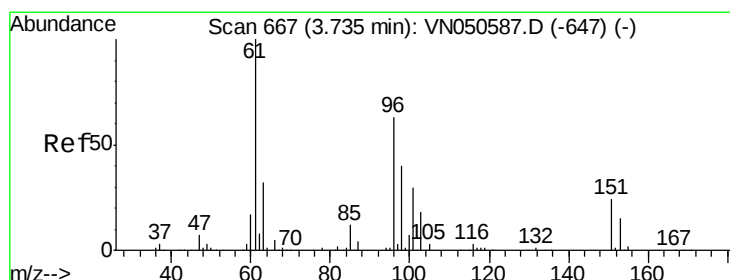
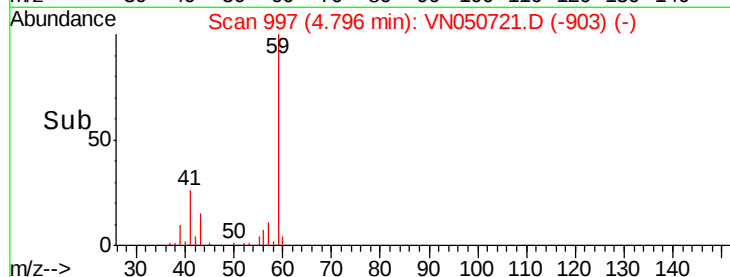
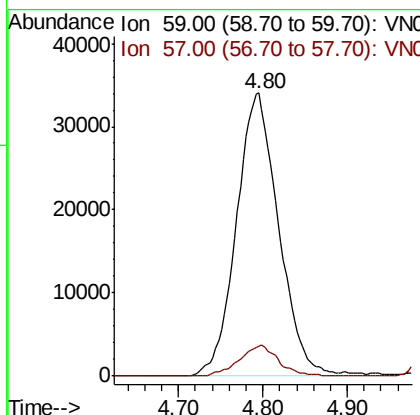
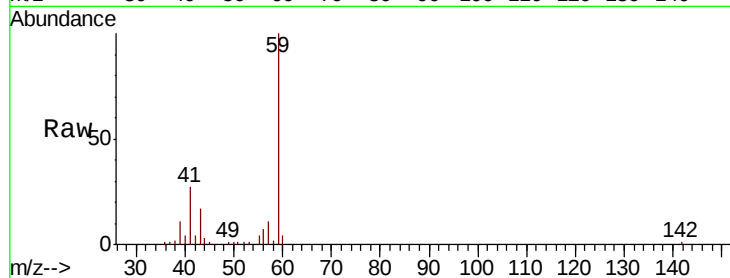
Tert butyl alcohol
 Concen: 255.61 ug/l
 RT: 4.80 min Scan# 997
 Delta R.T. 0.00 min
 Lab File: VN050721.D
 Acq: 17 Aug 2018 11:20

Instrument :
 MSVOA_N
 ClientSampleId :
 VSTDCCC050

Tot Ion	59	Resp	118213
Ion Ratio	100	Lower	Upper
57	10.2	8.4	12.6

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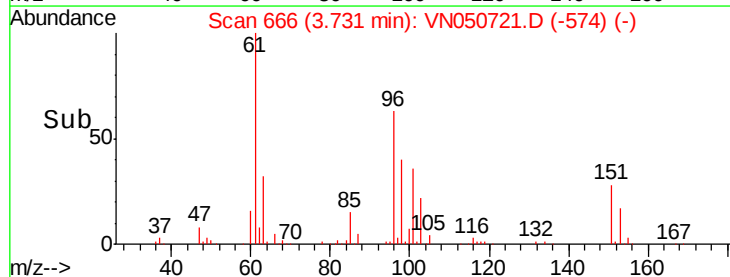
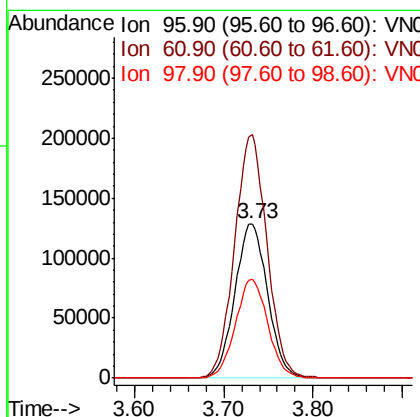
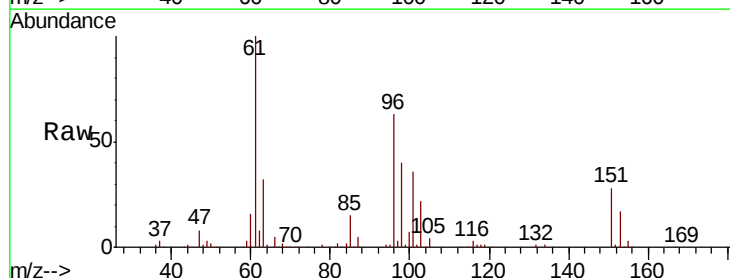
MMDadoda
 8/20/2018 10:52:52 AM

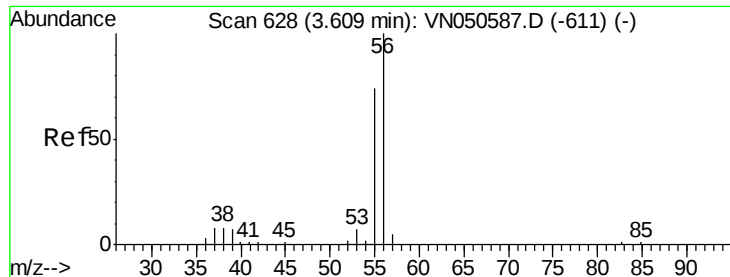


#12

1,1-Dichloroethene
 Concen: 44.90 ug/l
 RT: 3.73 min Scan# 666
 Delta R.T. -0.00 min
 Lab File: VN050721.D
 Acq: 17 Aug 2018 11:20

Tgt Ion	96	Resp	327340
Ion Ratio	100	Lower	Upper
61	157.9	126.9	190.3
98	63.8	51.1	76.7





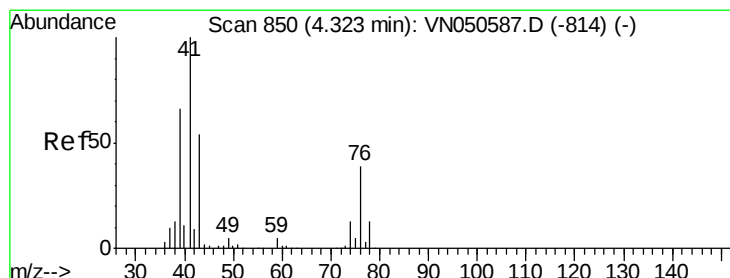
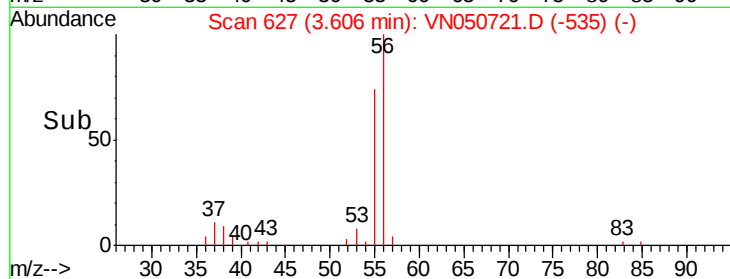
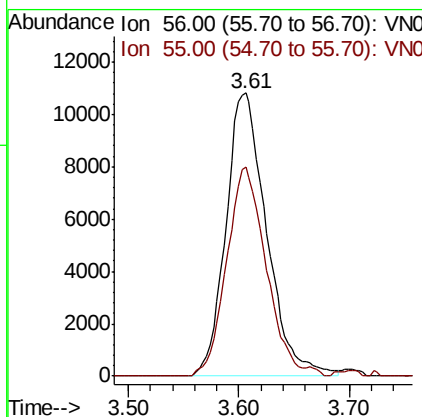
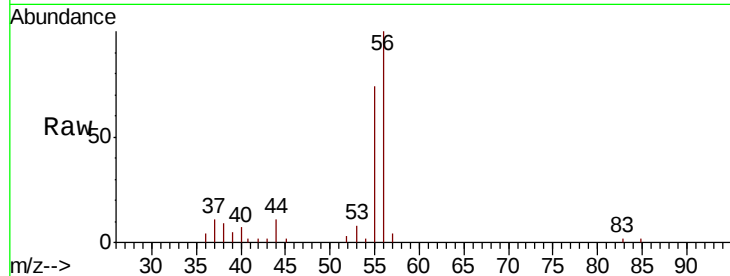
#13
Acrolein
Concen: 153.26 ug/l
RT: 3.61 min Scan# 627
Delta R.T. -0.00 min
Lab File: VN050721.D
Acq: 17 Aug 2018 11:20

Instrument :
MSVOA_N
ClientSampleId :
VSTDCCC050

Tot Ion	Ion	Ratio	Lower	Upper
56	56	100		
55	55	71.9	56.3	84.5

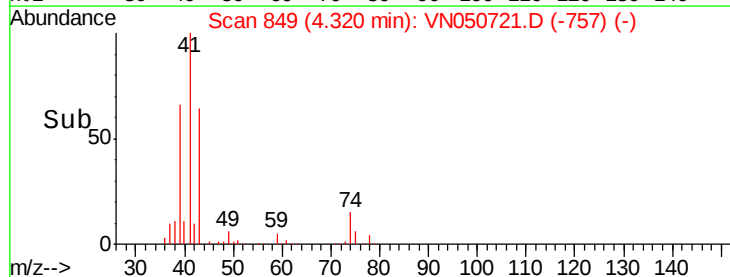
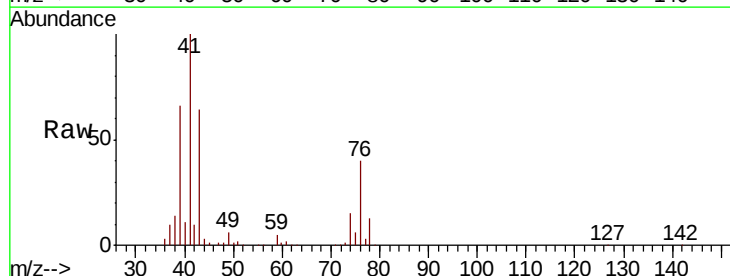
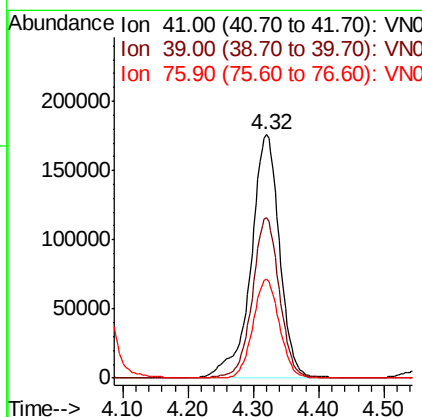
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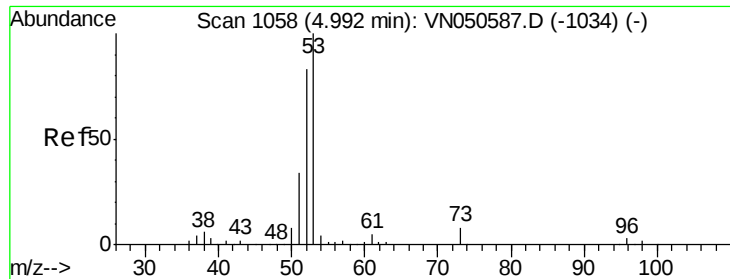
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#14
Allyl chloride
Concen: 47.26 ug/l
RT: 4.32 min Scan# 849
Delta R.T. -0.00 min
Lab File: VN050721.D
Acq: 17 Aug 2018 11:20

Tgt Ion	Ion	Ratio	Lower	Upper
41	41	100		
39	39	62.6	51.4	77.0
76	76	37.2	29.4	44.0





#15

Acrylonitrile

Concen: 254.58 ug/l

RT: 4.99 min Scan# 1056

Delta R.T. -0.01 min

Lab File: VN050721.D

Acq: 17 Aug 2018 11:20

Instrument :

MSVOA_N

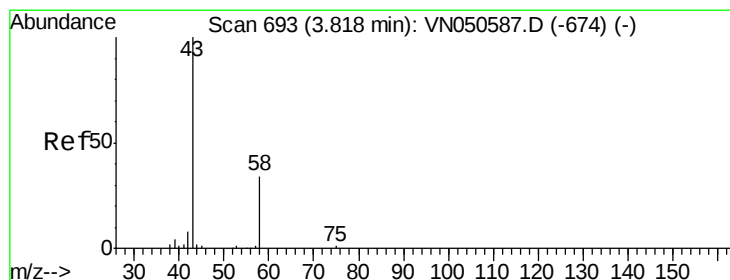
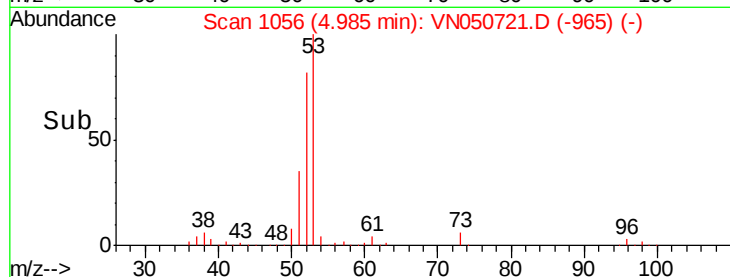
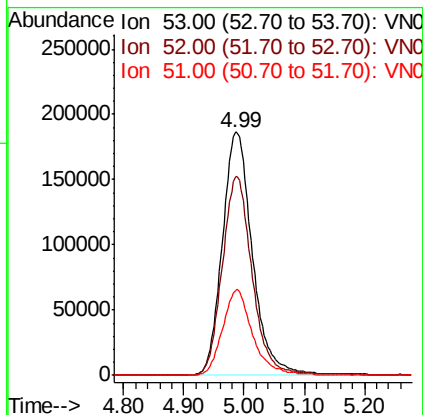
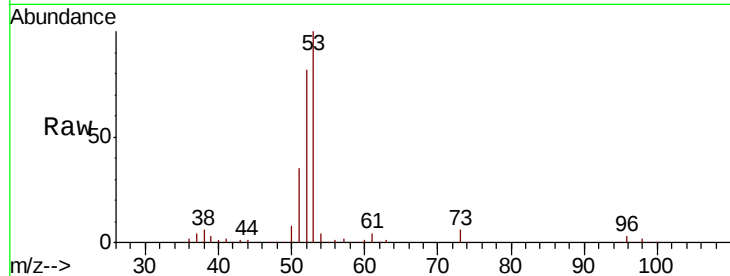
ClientSampleId :

VSTDCCC050

Tot Ion:	53	Resp:	646626
Ion Ratio	Lower	Upper	
53	100		
52	81.1	66.2	99.2
51	35.1	28.6	43.0

Manual Integrations
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#16

Acetone

Concen: 280.93 ug/l

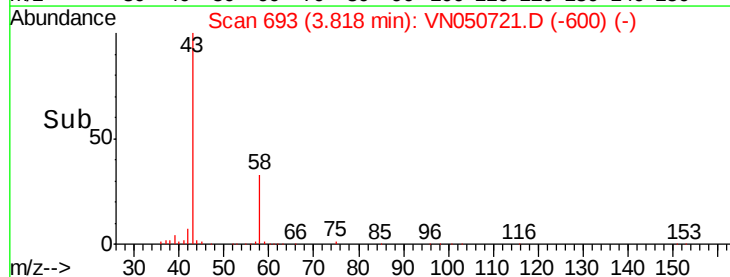
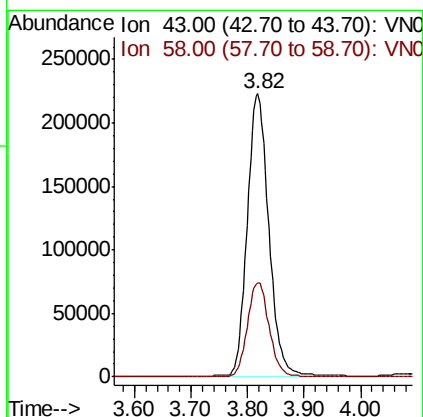
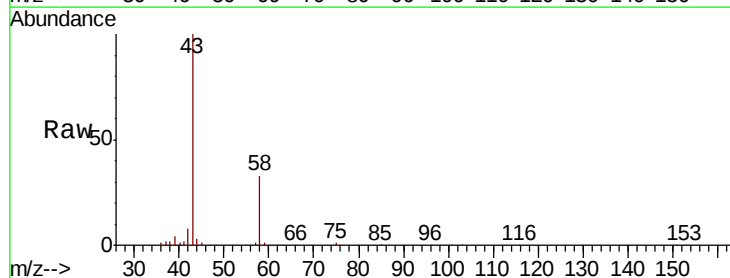
RT: 3.82 min Scan# 693

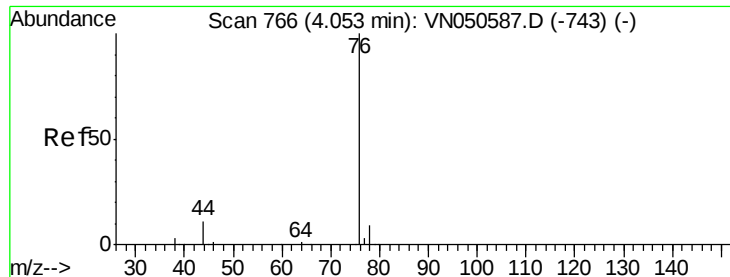
Delta R.T. 0.00 min

Lab File: VN050721.D

Acq: 17 Aug 2018 11:20

Tgt Ion:	43	Resp:	593741
Ion Ratio	Lower	Upper	
43	100		
58	33.3	27.1	40.7





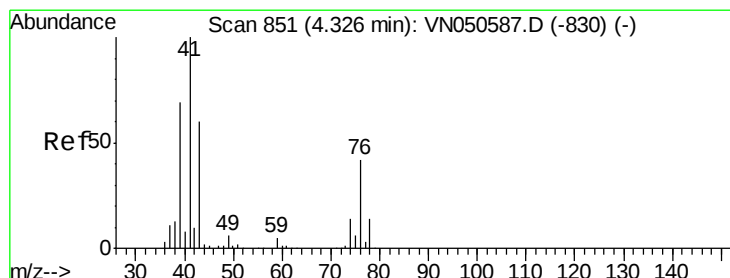
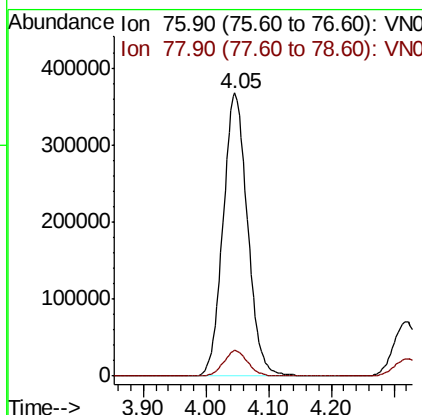
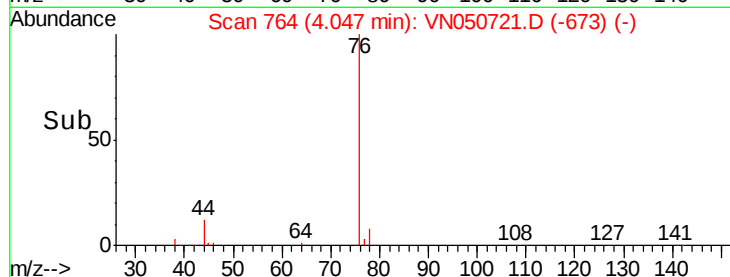
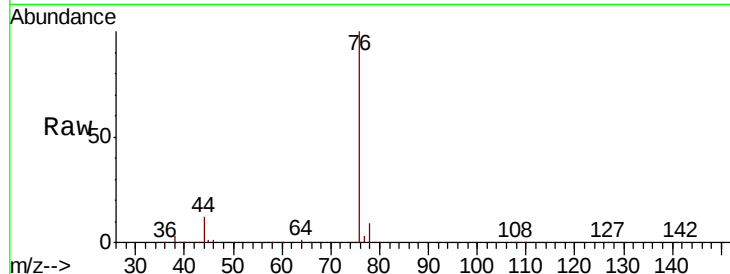
#17
Carbon Disulfide
Concen: 43.23 ug/l
RT: 4.05 min Scan# 764
Delta R.T. -0.01 min
Lab File: VN050721.D
Acq: 17 Aug 2018 11:20

Instrument :
MSVOA_N
ClientSampleId :
VSTDCCC050

Tot Ion	Ratio	Lower	Upper
76	100		
78	9.0	7.3	10.9

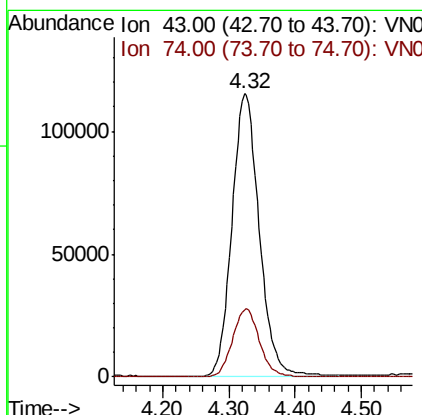
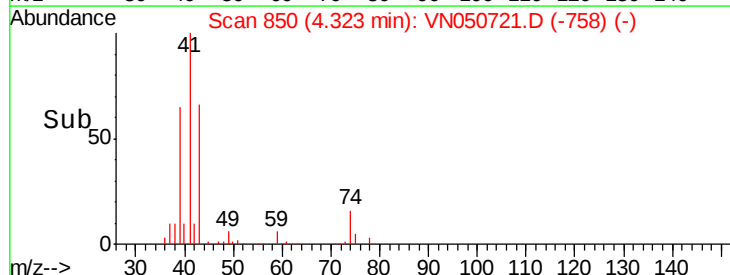
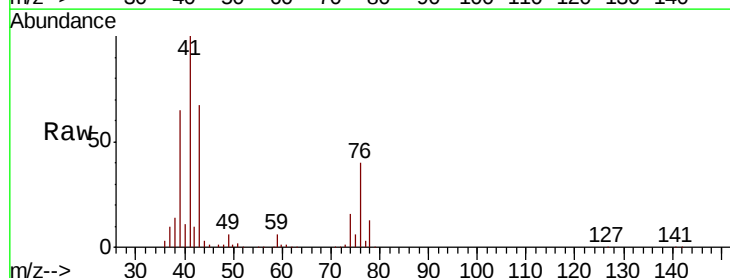
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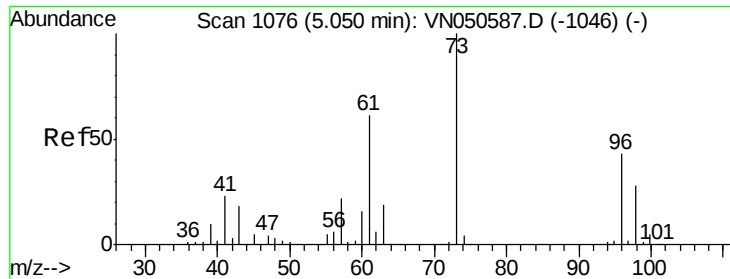
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#18
Methyl Acetate
Concen: 55.31 ug/l
RT: 4.32 min Scan# 850
Delta R.T. -0.00 min
Lab File: VN050721.D
Acq: 17 Aug 2018 11:20

Tgt Ion	Ratio	Lower	Upper
43	100		
74	23.9	19.7	29.5





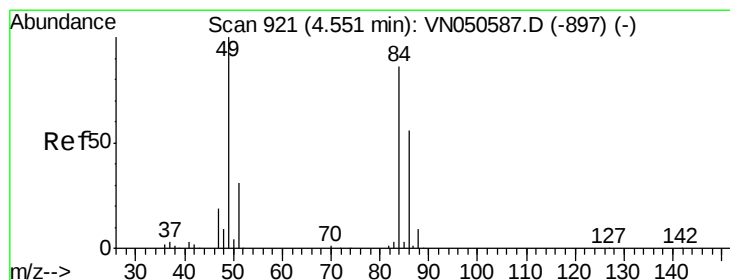
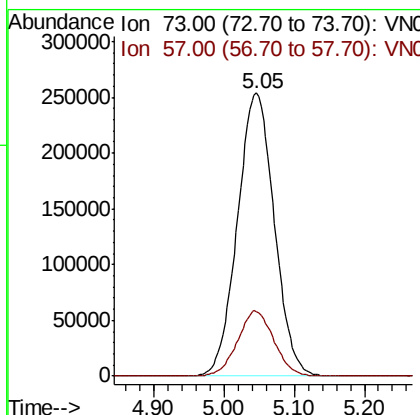
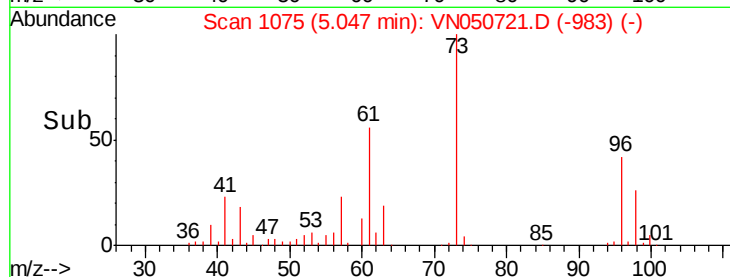
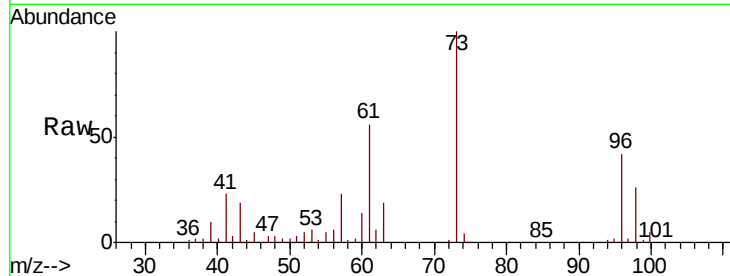
#19
Methyl tert-butyl Ether
Concen: 49.83 ug/l
RT: 5.05 min Scan# 1075
Delta R.T. -0.00 min
Lab File: VN050721.D
Acq: 17 Aug 2018 11:20

Instrument :
MSVOA_N
ClientSampleId :
VSTDCCC050

Tot Ion	Ratio	Lower	Upper
73	100		
57	22.8	17.9	26.9

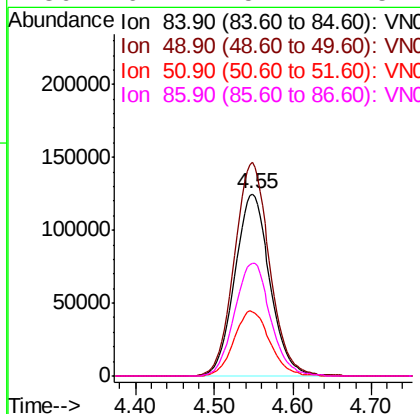
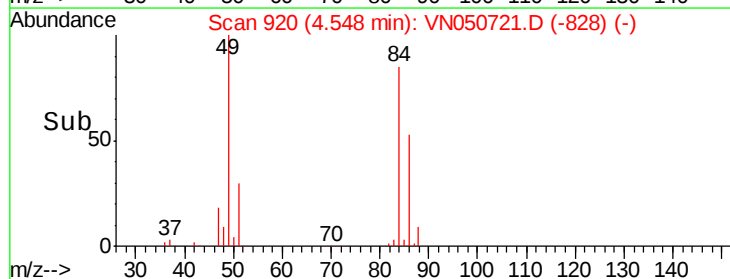
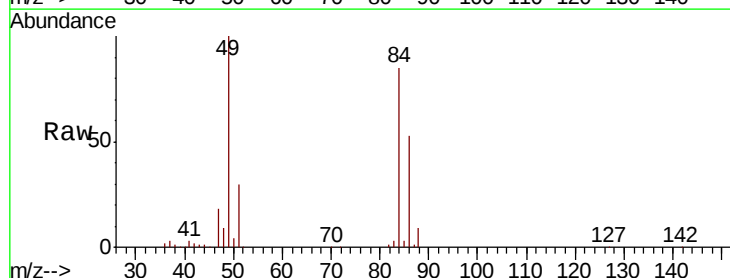
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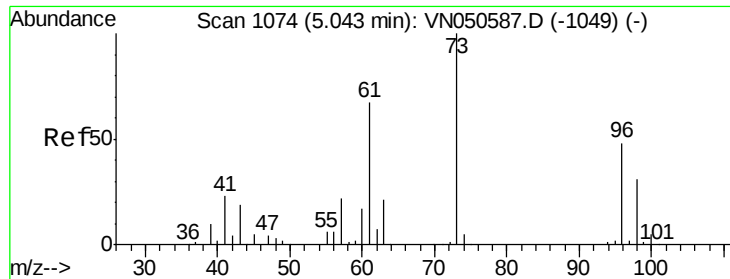
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#20
Methylene Chloride
Concen: 48.45 ug/l
RT: 4.55 min Scan# 920
Delta R.T. -0.00 min
Lab File: VN050721.D
Acq: 17 Aug 2018 11:20

Tgt Ion	Ratio	Lower	Upper
84	100		
49	117.5	92.6	138.8
51	35.5	28.6	43.0
86	62.1	52.2	78.2





#21

trans-1,2-Dichloroethene

Concen: 46.24 ug/l

RT: 5.04 min Scan# 1072

Delta R.T. -0.01 min

Lab File: VN050721.D

Acq: 17 Aug 2018 11:20

Instrument :

MSVOA_N

ClientSampleId :

VSTDCCC050

Tot Ion: 96 Resp: 365512

Ion Ratio Lower Upper

96 100

61 134.5 111.2 166.8

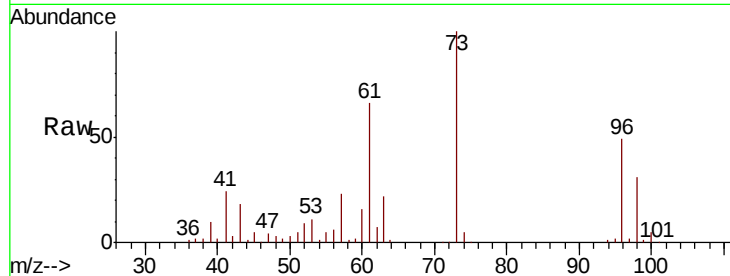
98 63.2 51.6 77.4

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Abundance

Ion 95.90 (95.60 to 96.60): VN0

Ion 60.90 (60.60 to 61.60): VN0

Ion 97.90 (97.60 to 98.60): VN0

200000

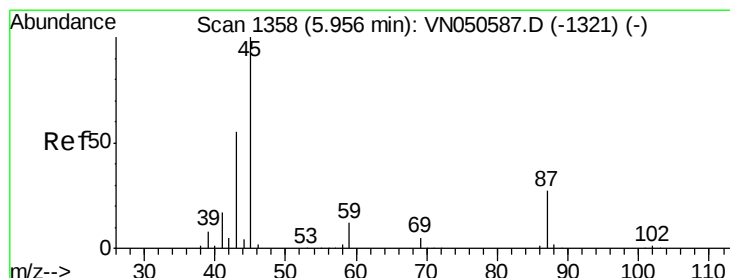
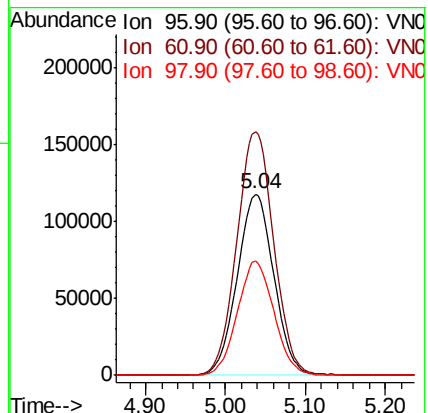
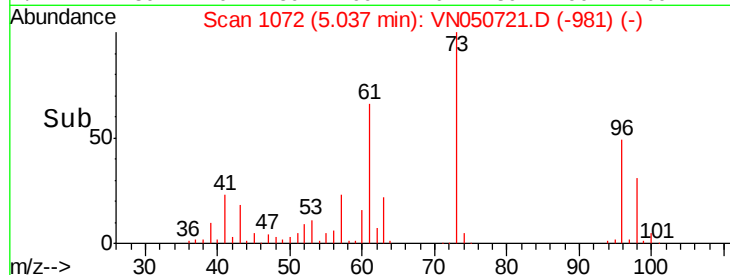
150000

100000

50000

0

Time-->



#22

Diisopropyl ether

Concen: 49.39 ug/l

RT: 5.95 min Scan# 1357

Delta R.T. -0.00 min

Lab File: VN050721.D

Acq: 17 Aug 2018 11:20

Tgt Ion: 45 Resp: 1148324

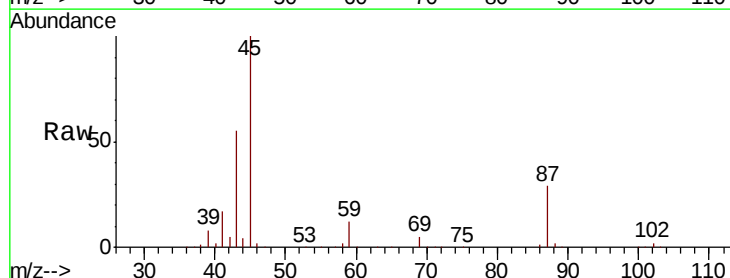
Ion Ratio Lower Upper

45 100

43 54.2 44.5 66.7

87 28.4 22.2 33.2

59 12.0 9.5 14.3



Abundance

Ion 45.00 (44.70 to 45.70): VN0

Ion 43.00 (42.70 to 43.70): VN0

Ion 87.00 (86.70 to 87.70): VN0

Ion 59.00 (58.70 to 59.70): VN0

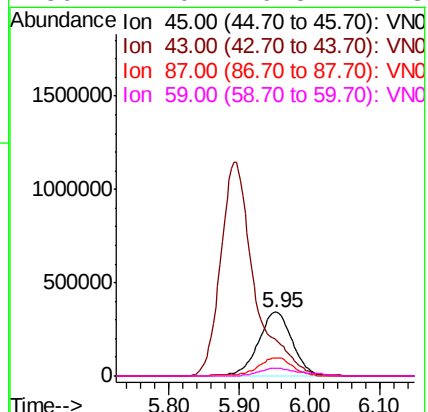
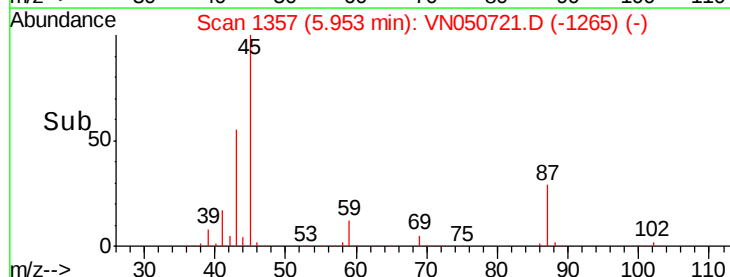
1500000

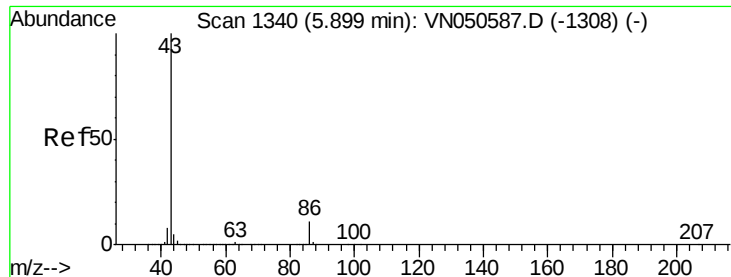
1000000

500000

0

Time-->





#23

Vinyl Acetate

Concen: 252.23 ug/l

RT: 5.90 min Scan# 1339

Delta R.T. -0.00 min

Lab File: VN050721.D

Acq: 17 Aug 2018 11:20

Instrument :

MSVOA_N

ClientSampleId :

VSTDCCC050

Tot Ion: 43 Resp: 3836577

Ion Ratio Lower Upper

43 100

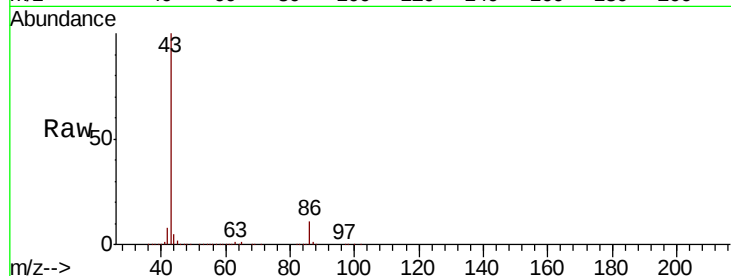
86 10.8 8.4 12.6

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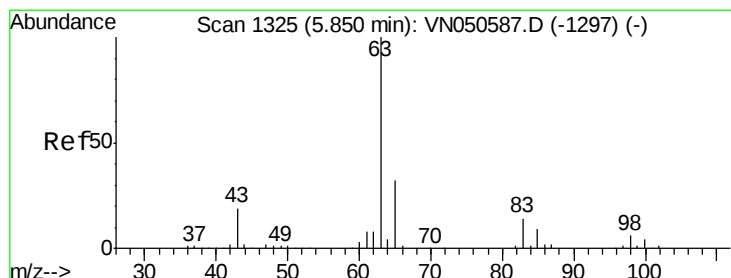
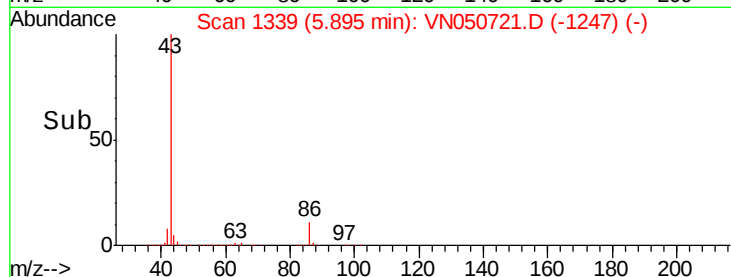
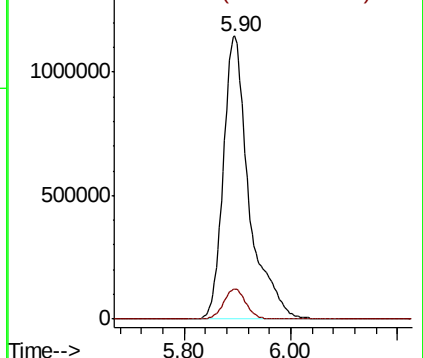
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Abundance Ion 43.00 (42.70 to 43.70): VN0

Ion 86.00 (85.70 to 86.70): VN0



#24

1,1-Dichloroethane

Concen: 45.04 ug/l

RT: 5.85 min Scan# 1324

Delta R.T. -0.00 min

Lab File: VN050721.D

Acq: 17 Aug 2018 11:20

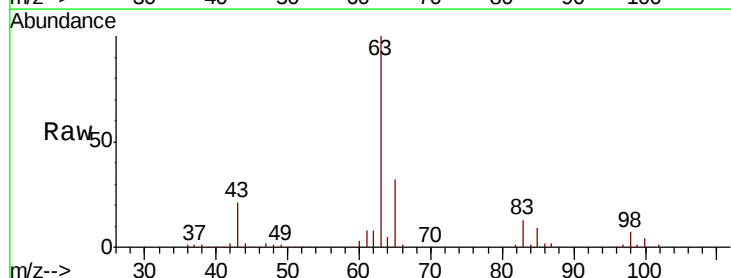
Tgt Ion: 63 Resp: 677581

Ion Ratio Lower Upper

63 100

98 6.5 3.2 9.6

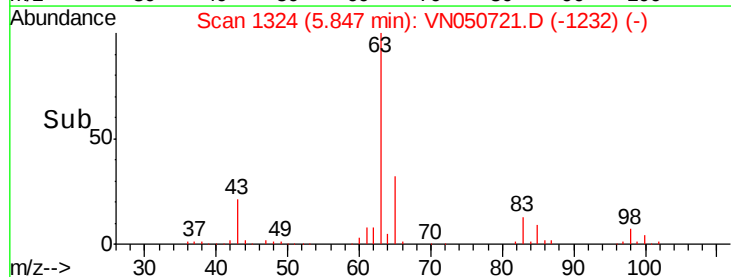
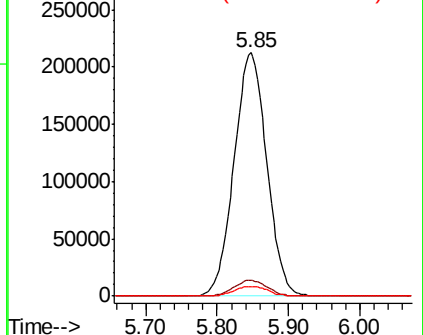
100 3.9 2.1 6.5

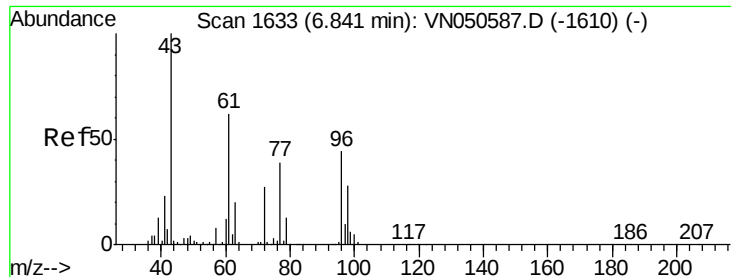


Abundance Ion 62.90 (62.60 to 63.60): VN0

Ion 97.90 (97.60 to 98.60): VN0

Ion 99.90 (99.60 to 100.60): VN0





#25

2-Butanone

Concen: 263.55 ug/l

RT: 6.84 min Scan# 1632

Delta R.T. -0.00 min

Lab File: VN050721.D

Acq: 17 Aug 2018 11:20

Instrument :

MSVOA_N

ClientSampleId :

VSTDCCC050

Tot Ion: 43 Resp: 915233

Ion Ratio Lower Upper

43 100

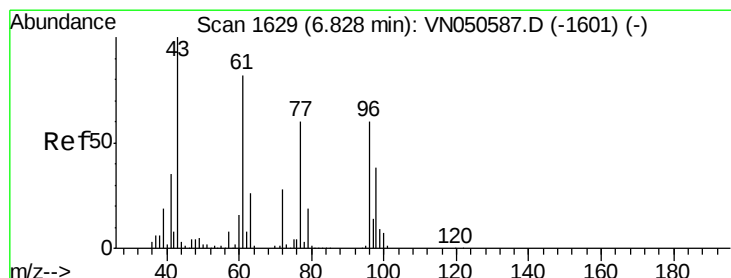
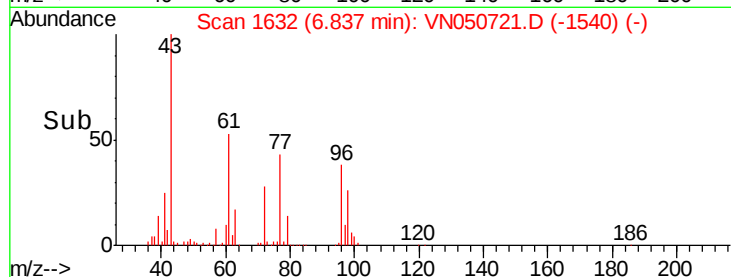
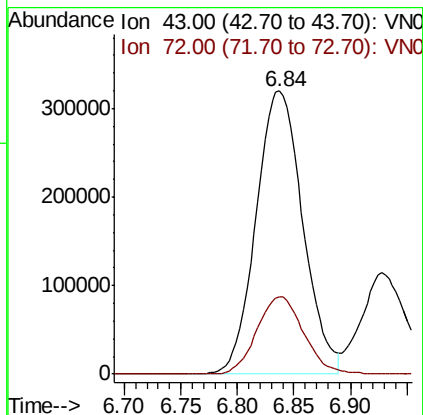
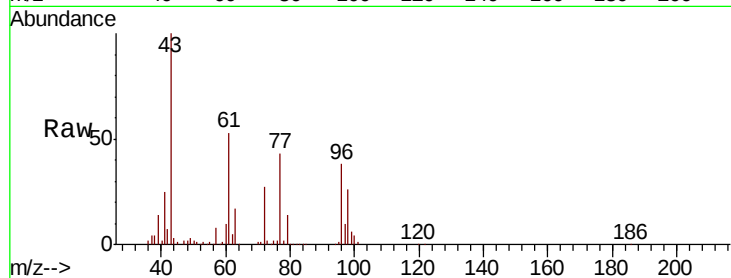
72 27.5 21.8 32.6

Manual Integrations

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MMDadoda

8/20/2018 10:52:52 AM



#26

2,2-Dichloropropane

Concen: 55.05 ug/l

RT: 6.82 min Scan# 1628

Delta R.T. -0.00 min

Lab File: VN050721.D

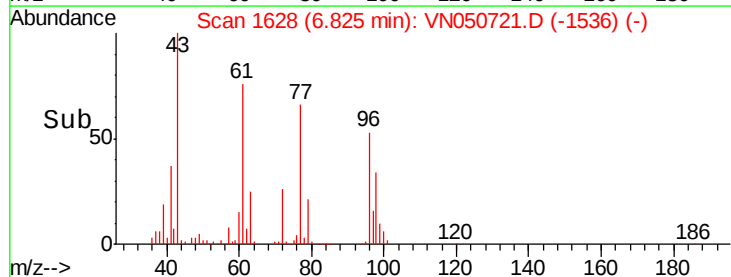
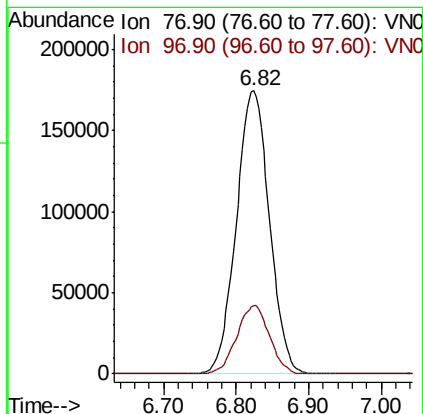
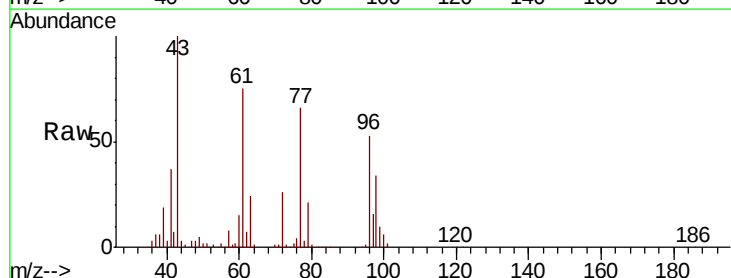
Acq: 17 Aug 2018 11:20

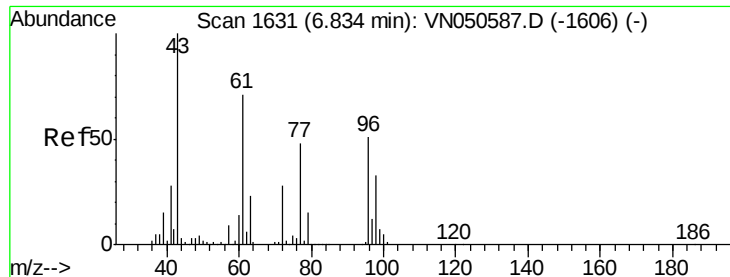
Tgt Ion: 77 Resp: 554394

Ion Ratio Lower Upper

77 100

97 23.9 12.2 36.4





#27

cis-1,2-Dichloroethene

Concen: 46.22 ug/l

RT: 6.82 min Scan# 1628

Delta R.T. -0.01 min

Lab File: VN050721.D

Acq: 17 Aug 2018 11:20

Instrument :

MSVOA_N

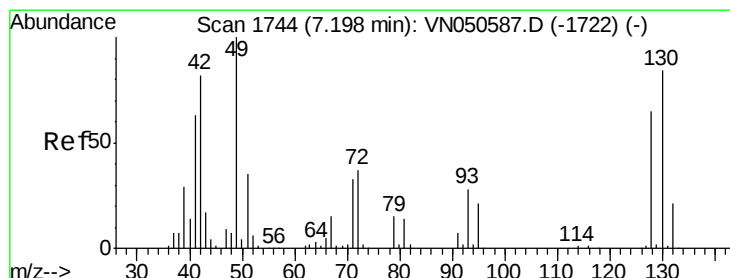
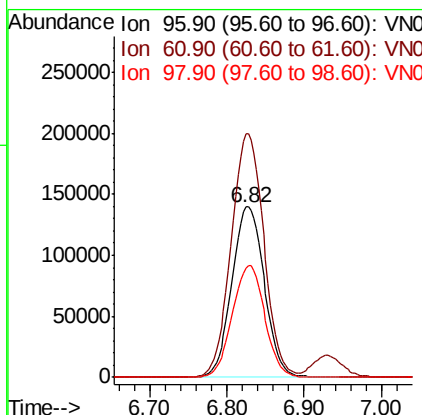
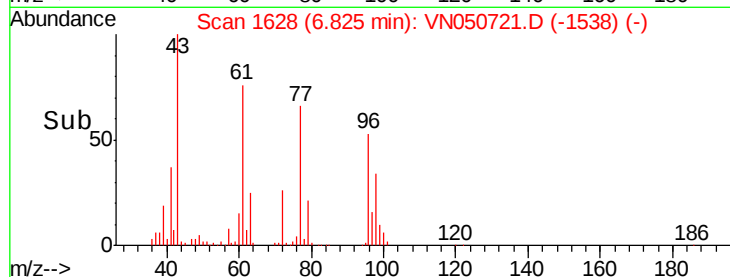
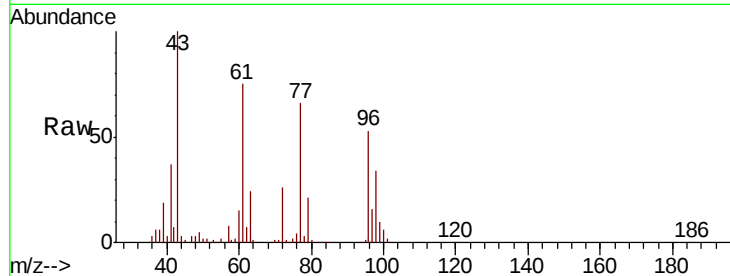
ClientSampleId :

VSTDCCC050

Tot Ion:	96	Resp:	406809
Ion	Ratio	Lower	Upper
96	100		
61	143.8	0.0	278.2
98	65.6	0.0	128.8

Manual Integrations
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#28

Bromochloromethane

Concen: 48.37 ug/l

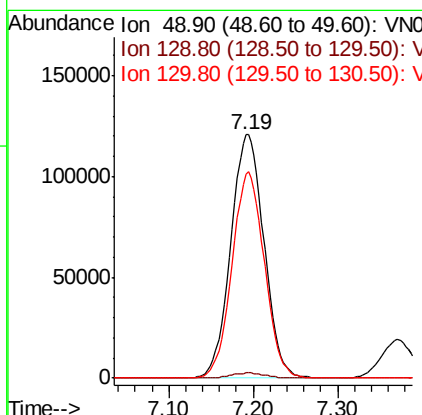
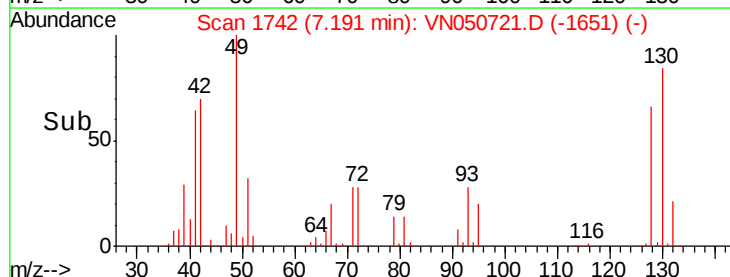
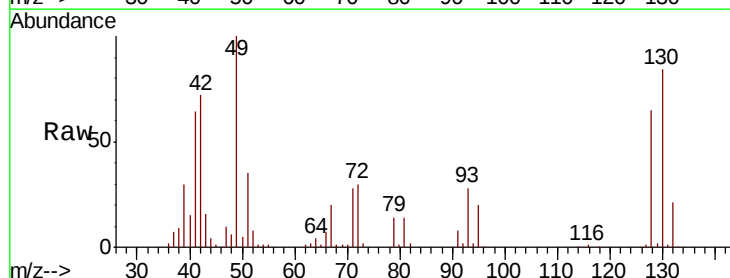
RT: 7.19 min Scan# 1742

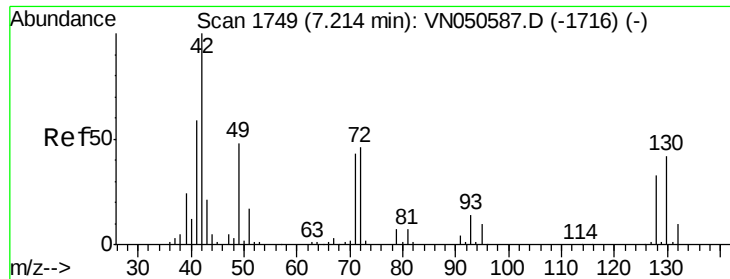
Delta R.T. -0.01 min

Lab File: VN050721.D

Acq: 17 Aug 2018 11:20

Tgt Ion:	49	Resp:	331207
Ion	Ratio	Lower	Upper
49	100		
129	2.1	0.0	4.2
130	82.5	66.8	100.2





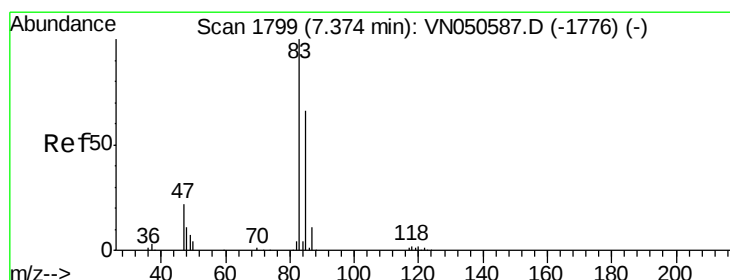
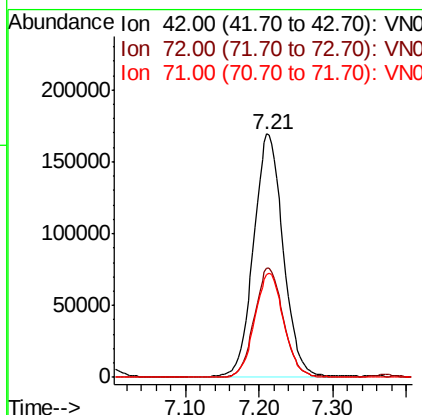
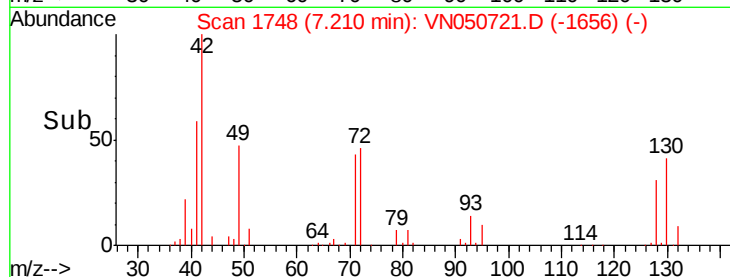
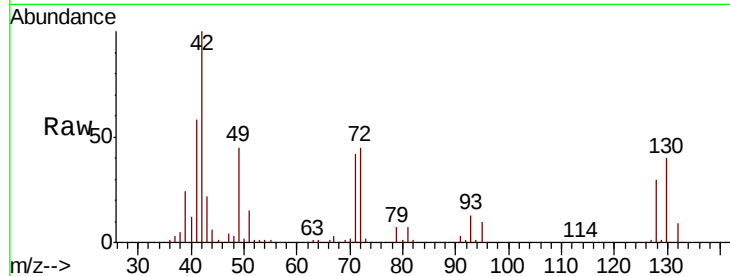
#29
Tetrahydrofuran
Concen: 260.42 ug/l
RT: 7.21 min Scan# 1748
Delta R.T. -0.00 min
Lab File: VN050721.D
Acq: 17 Aug 2018 11:20

Instrument :
MSVOA_N
ClientSampled :
VSTDCCC050

Tot Ion	Ratio	Lower	Upper
42	100		
72	44.0	35.8	53.6
71	41.8	33.4	50.0

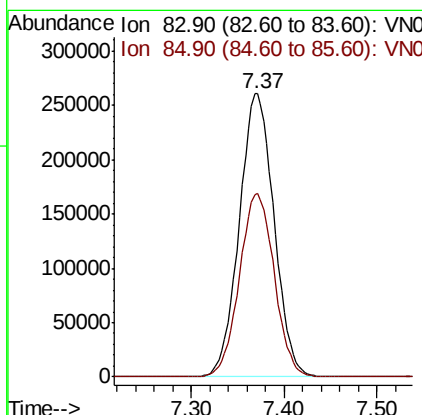
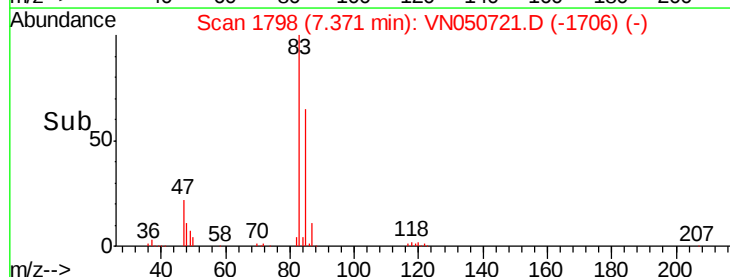
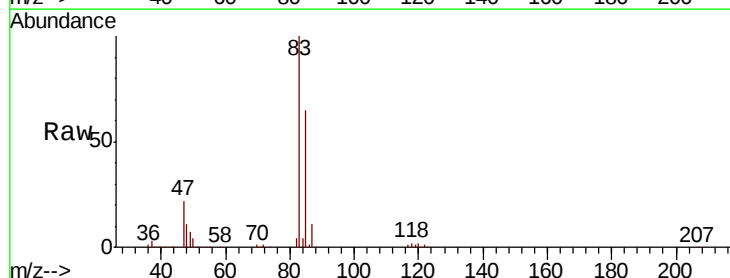
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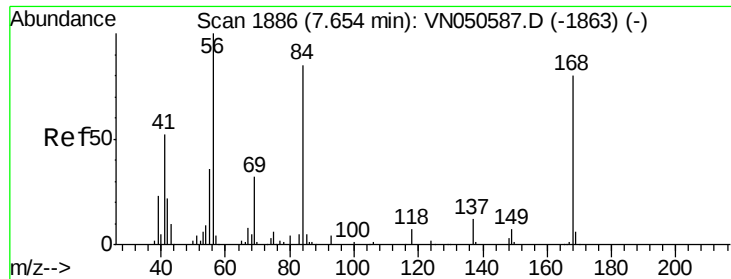
MMDadoda
8/20/2018 10:52:52 AM



#30
Chloroform
Concen: 44.47 ug/l
RT: 7.37 min Scan# 1798
Delta R.T. -0.00 min
Lab File: VN050721.D
Acq: 17 Aug 2018 11:20

Tgt Ion	Ratio	Lower	Upper
83	100		
85	64.8	52.5	78.7





#31

Cyclohexane

Concen: 47.39 ug/l

RT: 7.65 min Scan# 1885

Delta R.T. -0.00 min

Lab File: VN050721.D

Acq: 17 Aug 2018 11:20

Instrument :

MSVOA_N

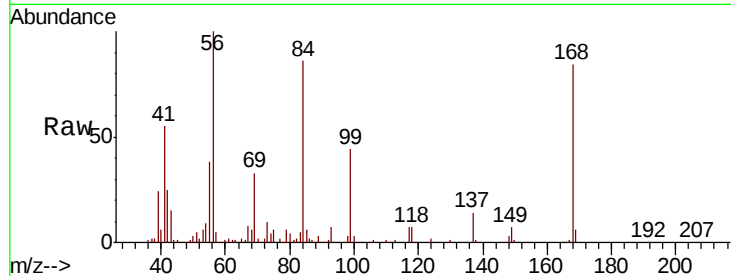
ClientSampleId :

VSTDCCC050

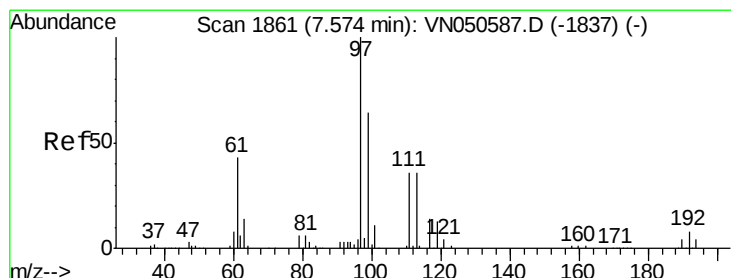
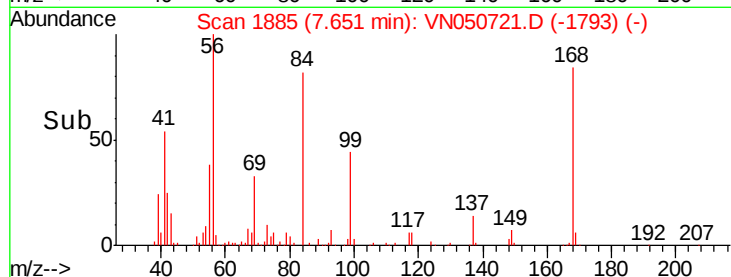
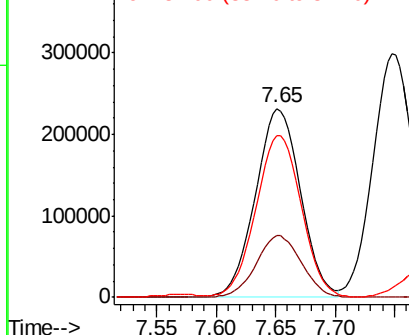
Tot Ion:	56	Resp:	608734
Ion	Ratio	Lower	Upper
56	100		
69	32.9	25.8	38.6
84	84.2	67.8	101.6

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Abundance Ion 56.00 (55.70 to 56.70): VN0
Ion 69.00 (68.70 to 69.70): VN0
Ion 84.00 (83.70 to 84.70): VN0



#32

1,1,1-Trichloroethane

Concen: 44.84 ug/l

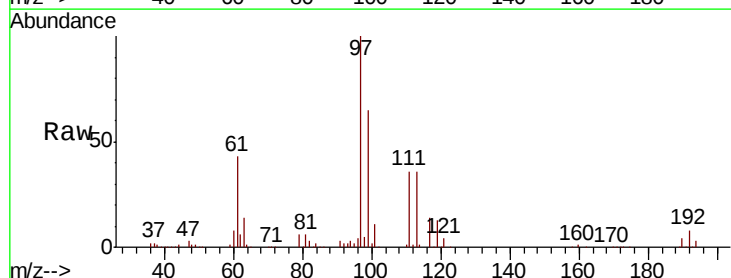
RT: 7.57 min Scan# 1860

Delta R.T. -0.00 min

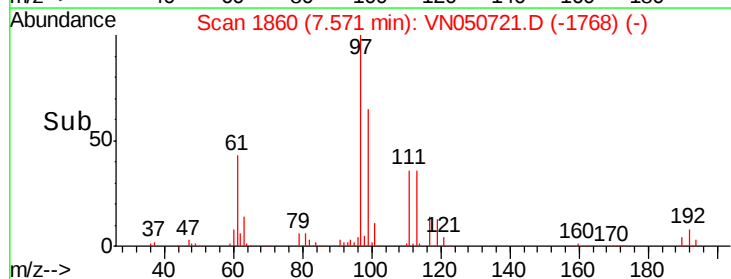
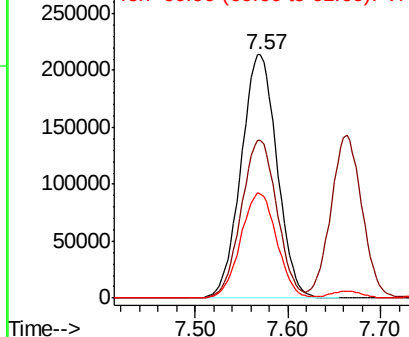
Lab File: VN050721.D

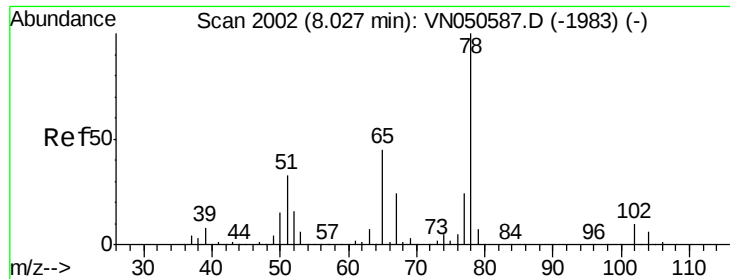
Acq: 17 Aug 2018 11:20

Tgt Ion:	97	Resp:	575498
Ion	Ratio	Lower	Upper
97	100		
99	64.7	51.1	76.7
61	43.4	34.8	52.2



Abundance Ion 96.90 (96.60 to 97.60): VN0
Ion 98.90 (98.60 to 99.60): VN0
Ion 60.90 (60.60 to 61.60): VN0





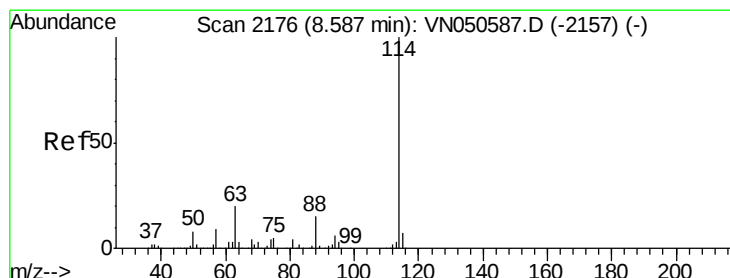
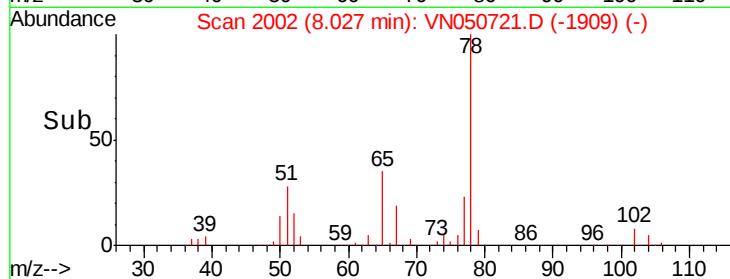
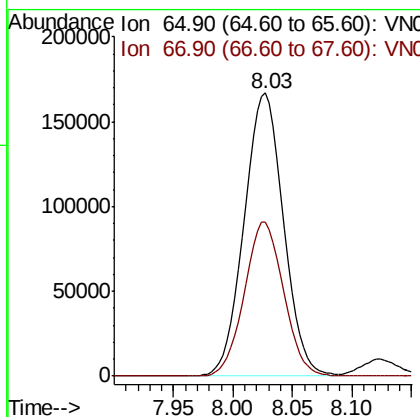
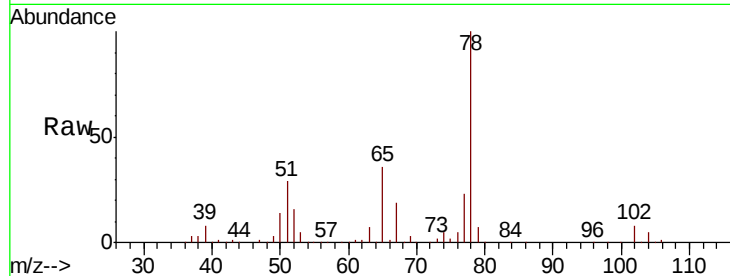
#33
 1,2-Dichloroethane-d4
 Concen: 45.24 ug/l
 RT: 8.03 min Scan# 2002
 Delta R.T. 0.00 min
 Lab File: VN050721.D
 Acq: 17 Aug 2018 11:20

Instrument :
 MSVOA_N
 ClientSampleId :
 VSTDCCC050

Tot Ion	Ratio	Resp	Lower	Upper
65	100	383184		
67	54.2	0.0	109.8	

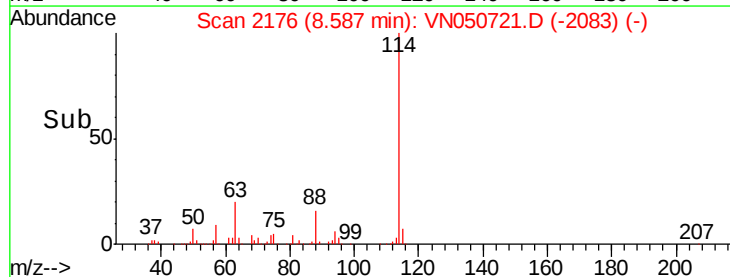
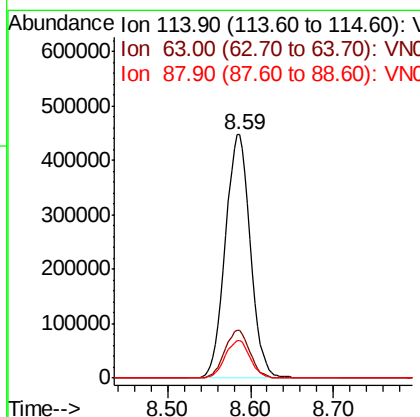
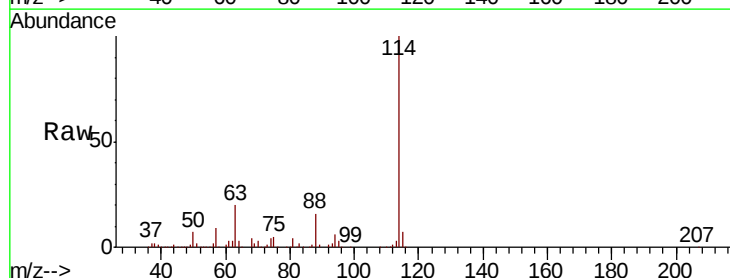
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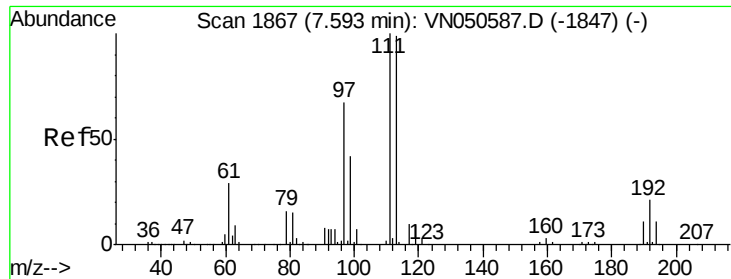
MMDadoda
 8/20/2018 10:52:52 AM



#34
 1,4-Difluorobenzene
 Concen: 50.00 ug/l
 RT: 8.59 min Scan# 2176
 Delta R.T. 0.00 min
 Lab File: VN050721.D
 Acq: 17 Aug 2018 11:20

Tgt Ion	Ratio	Resp	Lower	Upper
114	100	937897		
63	19.6	0.0	40.0	
88	15.6	0.0	30.8	





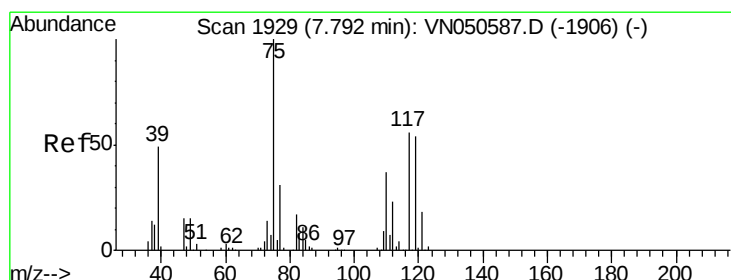
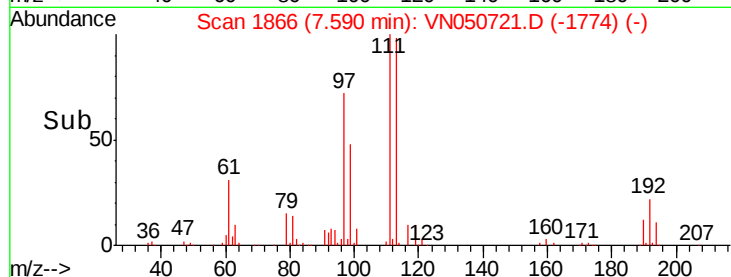
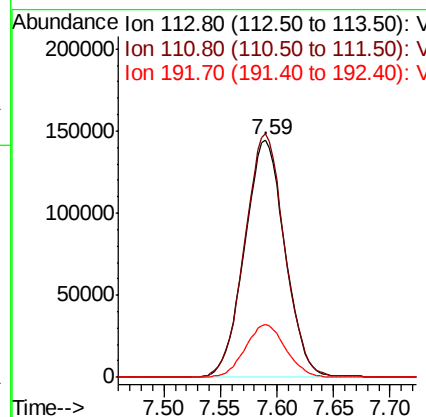
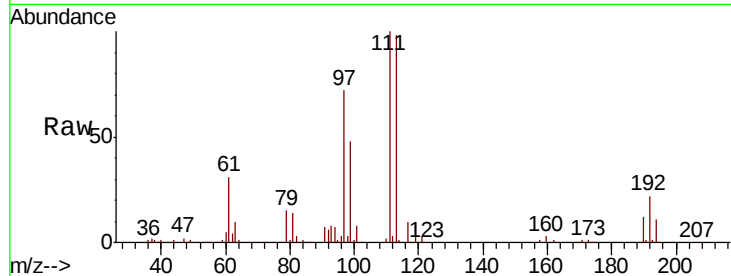
#35
 Dibromofluoromethane
 Concen: 47.92 ug/l
 RT: 7.59 min Scan# 1866
 Delta R.T. -0.00 min
 Lab File: VN050721.D
 Acq: 17 Aug 2018 11:20

Instrument :
 MSVOA_N
 ClientSampleId :
 VSTDCCC050

Tot Ion	Ratio	Resp	Lower	Upper
113	100	358819		
111	101.8	81.0	121.6	
192	22.3	17.6	26.4	

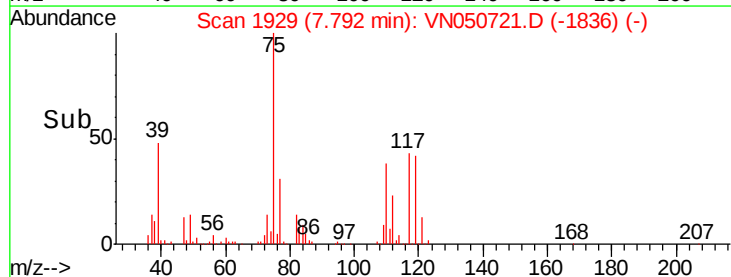
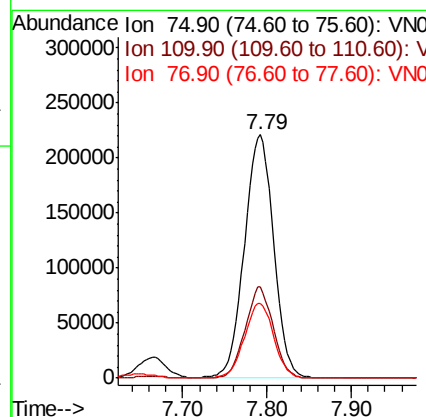
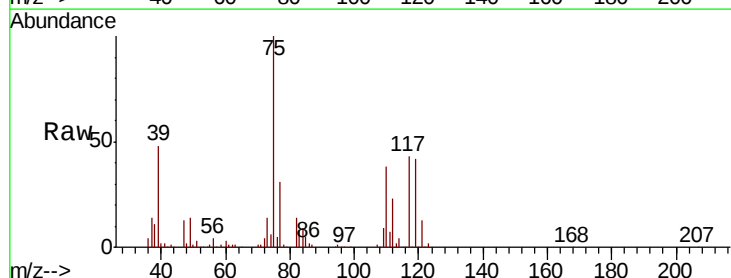
Manual Integrations
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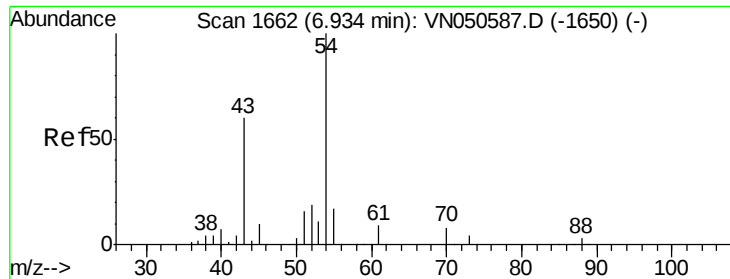
MMDadoda
 8/20/2018 10:52:52 AM



#36
 1,1-Dichloropropene
 Concen: 51.03 ug/l
 RT: 7.79 min Scan# 1929
 Delta R.T. 0.00 min
 Lab File: VN050721.D
 Acq: 17 Aug 2018 11:20

Tgt Ion	Ratio	Resp	Lower	Upper
75	100	532746		
110	36.0	18.3	54.9	
77	31.1	25.0	37.4	





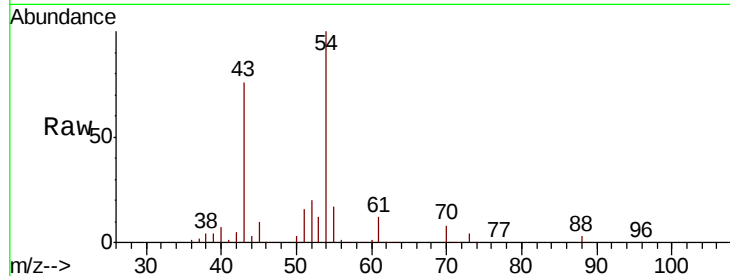
#37
Ethyl Acetate
Concen: 53.91 ug/l
RT: 6.93 min Scan# 1660
Delta R.T. -0.01 min
Lab File: VN050721.D
Acq: 17 Aug 2018 11:20

Instrument :
MSVOA_N
ClientSampleId :
VSTDCCC050

Tot Ion	Ratio	Lower	Upper
43	100		
61	15.1	12.0	18.0
70	11.1	8.5	12.7

Manual Integrations
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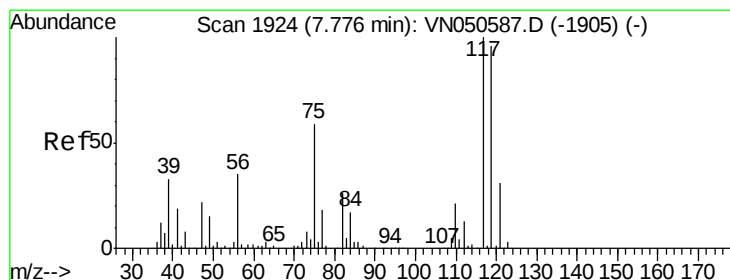
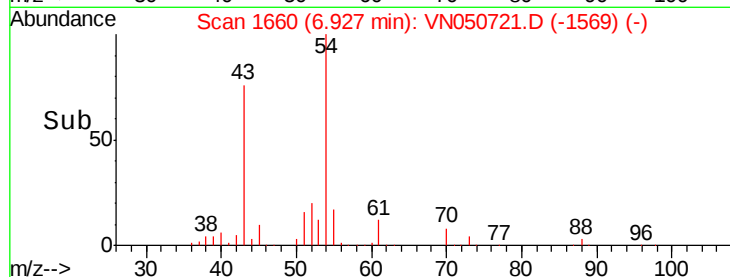
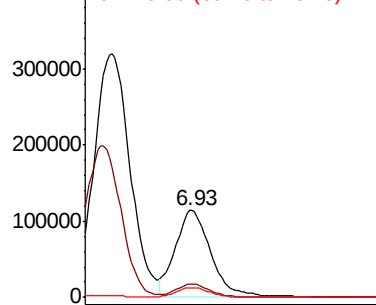


Abundance

Ion 43.00 (42.70 to 43.70): VN050587.D (-1650) (-)

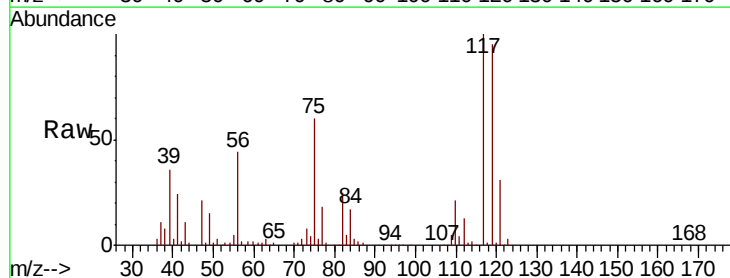
Ion 60.90 (60.60 to 61.60): VN050587.D (-1650) (-)

Ion 70.00 (69.70 to 70.70): VN050587.D (-1650) (-)



#38
Carbon Tetrachloride
Concen: 48.17 ug/l
RT: 7.77 min Scan# 1923
Delta R.T. -0.00 min
Lab File: VN050721.D
Acq: 17 Aug 2018 11:20

Tgt Ion	Ratio	Lower	Upper
117	100		
119	95.2	76.6	115.0
121	30.8	25.0	37.6

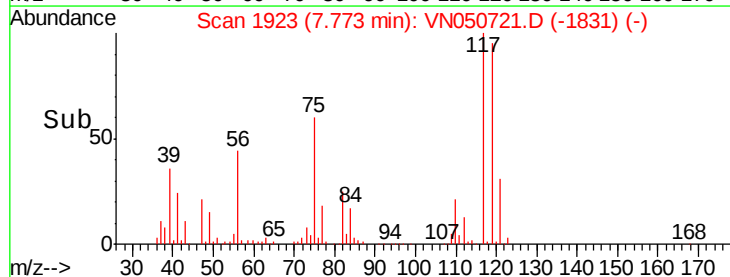
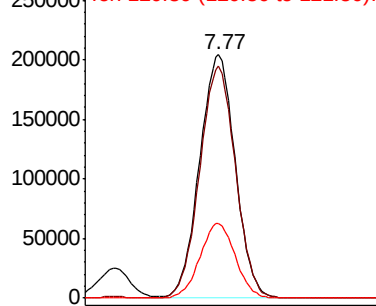


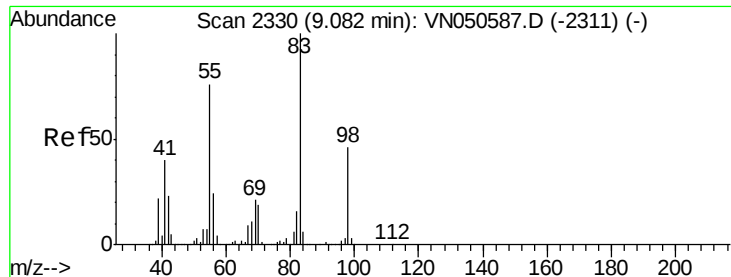
Abundance

Ion 116.80 (116.50 to 117.50): VN050587.D (-1905) (-)

Ion 118.80 (118.50 to 119.50): VN050587.D (-1905) (-)

Ion 120.80 (120.50 to 121.50): VN050587.D (-1905) (-)





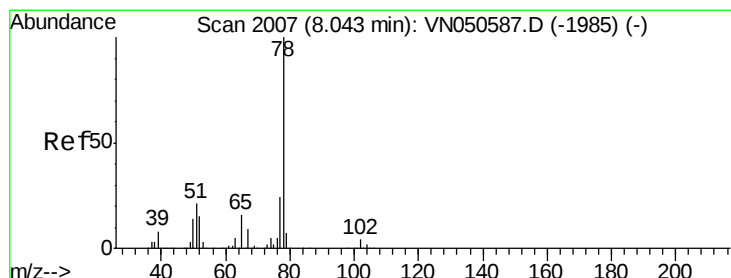
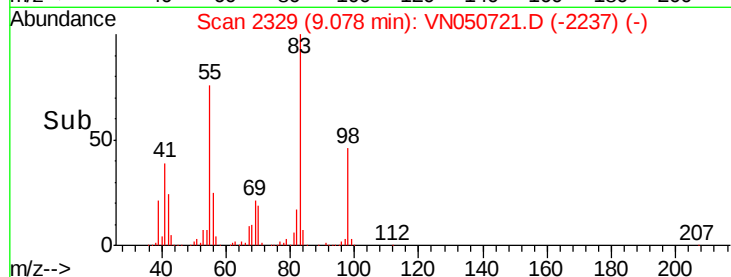
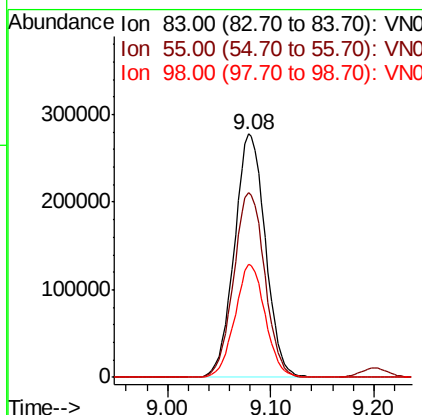
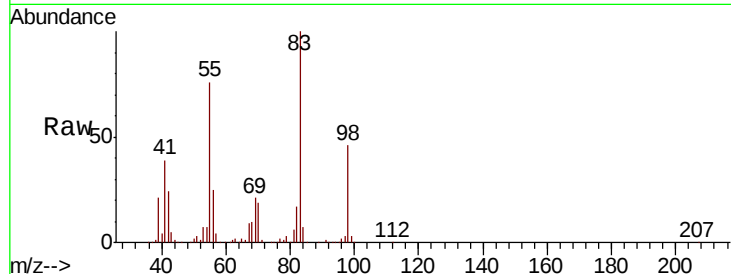
#39
Methvlcvclohexane
Concen: 53.80 ug/l
RT: 9.08 min Scan# 2329
Delta R.T. -0.00 min
Lab File: VN050721.D
Acq: 17 Aug 2018 11:20

Instrument :
MSVOA_N
ClientSampleId :
VSTDCCC050

Tot Ion	Ratio	Lower	Upper
83	100		
55	75.6	60.6	91.0
98	46.2	37.0	55.4

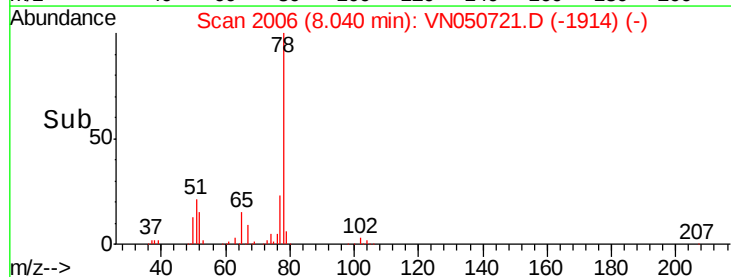
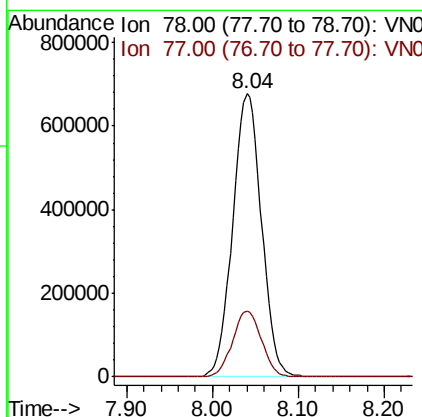
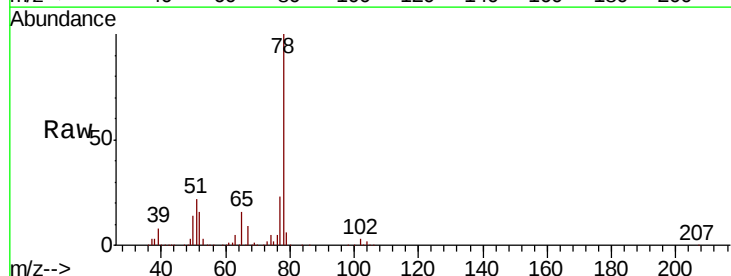
Manual Integrations
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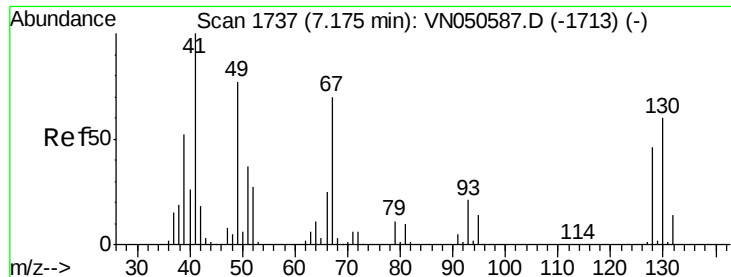
MMDadoda
8/20/2018 10:52:52 AM



#40
Benzene
Concen: 49.58 ug/l
RT: 8.04 min Scan# 2006
Delta R.T. -0.00 min
Lab File: VN050721.D
Acq: 17 Aug 2018 11:20

Tgt Ion	Ratio	Lower	Upper
78	100		
77	23.5	19.0	28.6





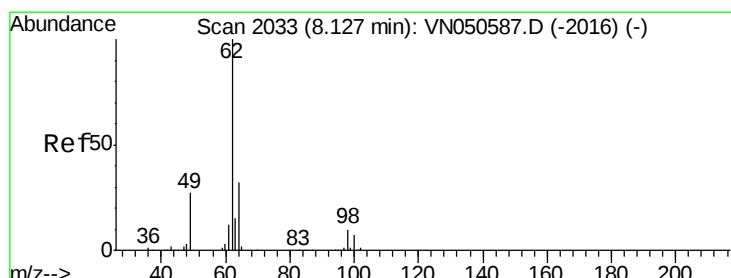
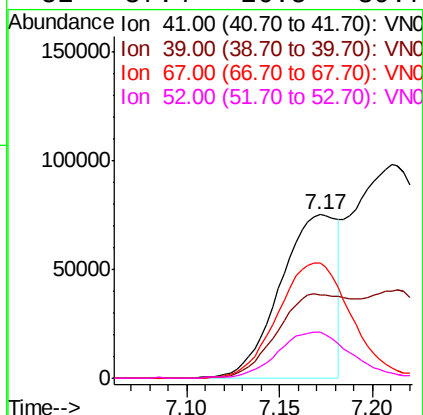
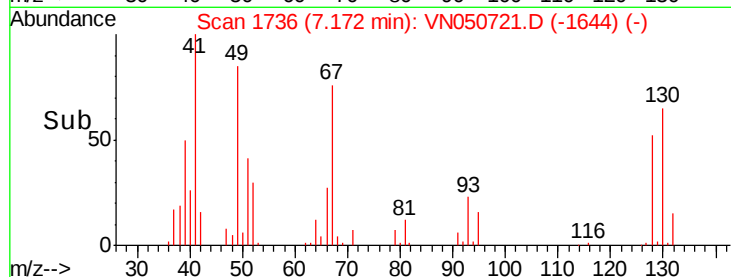
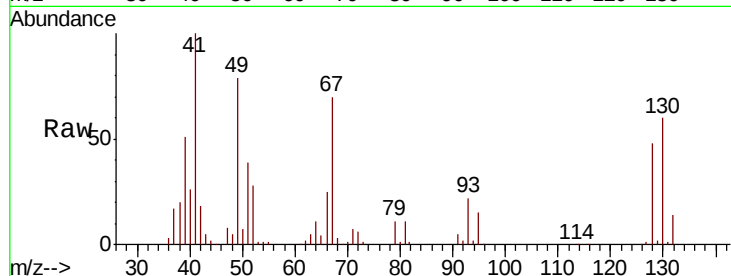
#41
Methacrylonitrile
Concen: 50.22 ug/l
RT: 7.17 min Scan# 1736
Delta R.T. -0.00 min
Lab File: VN050721.D
Acq: 17 Aug 2018 11:20

Instrument :
MSVOA_N
ClientSampleId :
VSTDCCC050

Tot Ion	Ratio	Lower	Upper
41	100		
39	66.8	44.6	66.8#
67	92.0	66.7	100.1
52	37.4	26.5	39.7

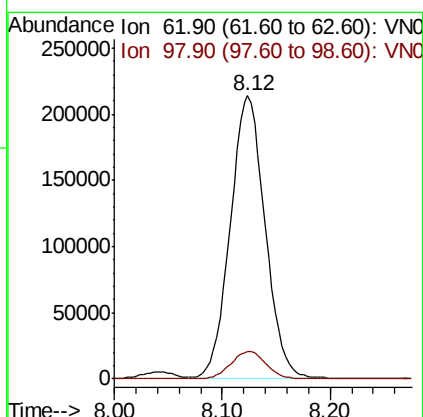
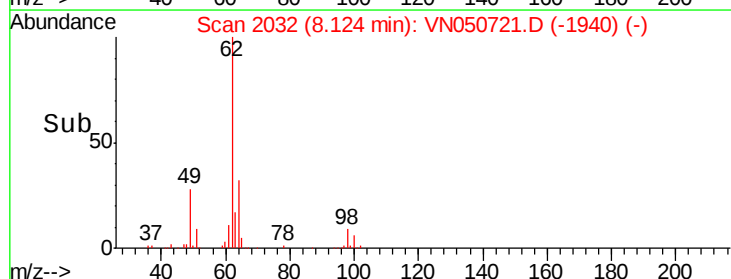
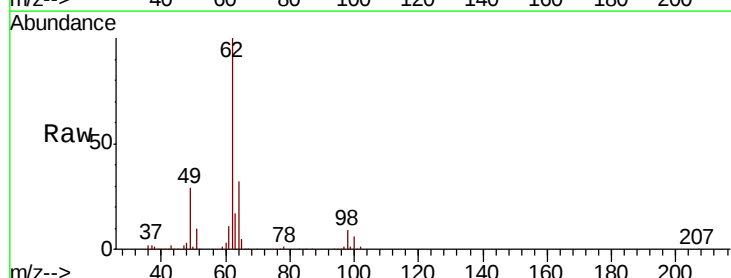
Manual Integrations
APPROVED

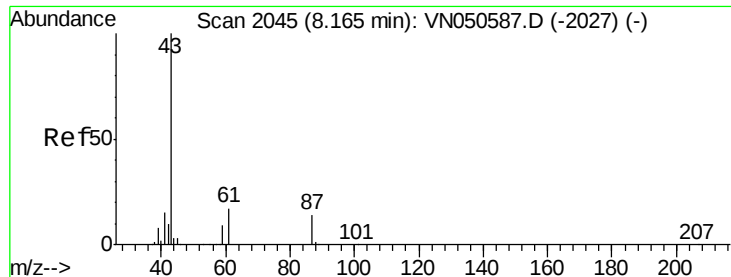
MMDadoda
8/20/2018 10:52:52 AM



#42
1,2-Dichloroethane
Concen: 49.30 ug/l
RT: 8.12 min Scan# 2032
Delta R.T. -0.00 min
Lab File: VN050721.D
Acq: 17 Aug 2018 11:20

Tgt Ion	Ratio	Lower	Upper
62	100		
98	9.8	0.0	19.4





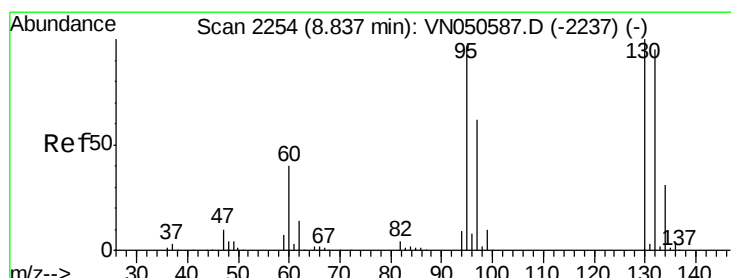
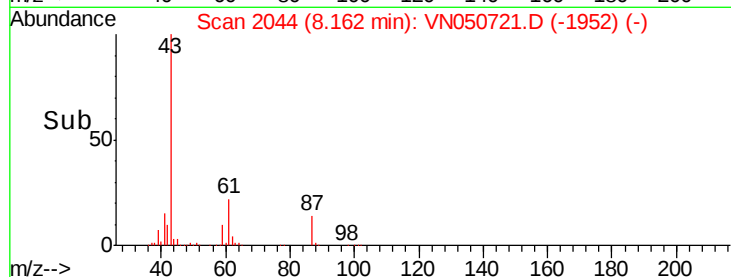
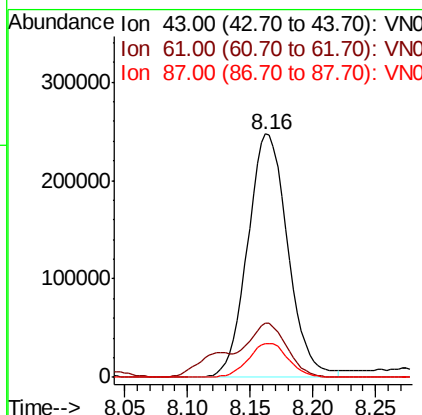
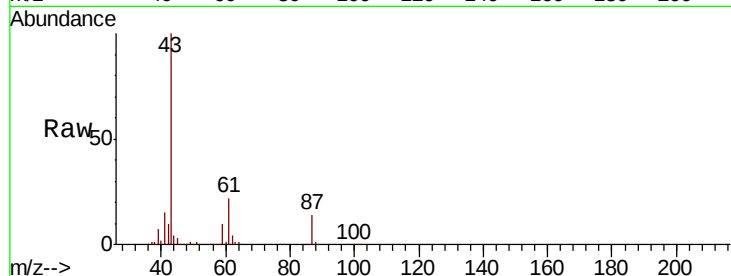
#43
Isopropyl Acetate
Concen: 51.14 ug/l
RT: 8.16 min Scan# 2044
Delta R.T. -0.00 min
Lab File: VN050721.D
Acq: 17 Aug 2018 11:20

Instrument :
MSVOA_N
ClientSampleId :
VSTDCCC050

Tot Ion	Ratio	Lower	Upper
43	100		
61	21.1	16.2	24.2
87	13.9	10.9	16.3

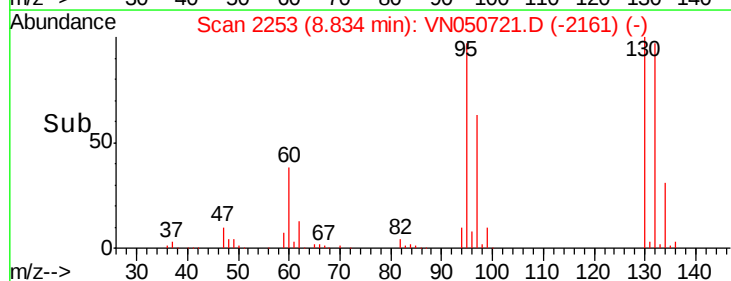
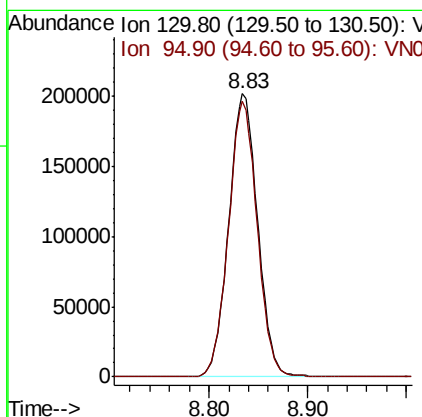
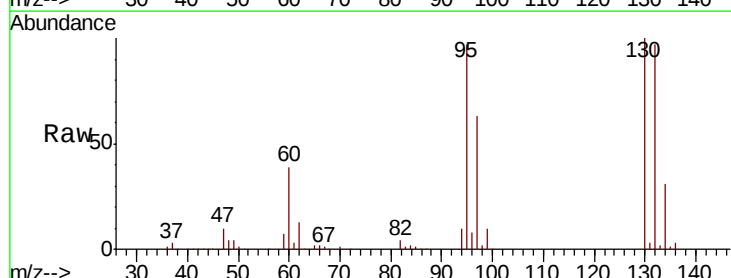
Manual Integrations
APPROVED

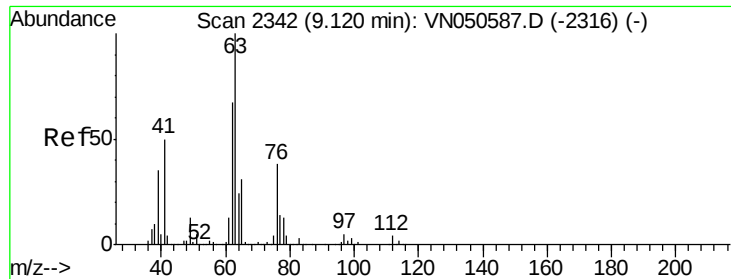
MMDadoda
8/20/2018 10:52:52 AM



#44
Trichloroethene
Concen: 48.54 ug/l
RT: 8.83 min Scan# 2253
Delta R.T. -0.00 min
Lab File: VN050721.D
Acq: 17 Aug 2018 11:20

Tgt Ion	Ratio	Lower	Upper
130	100		
95	97.4	0.0	193.8





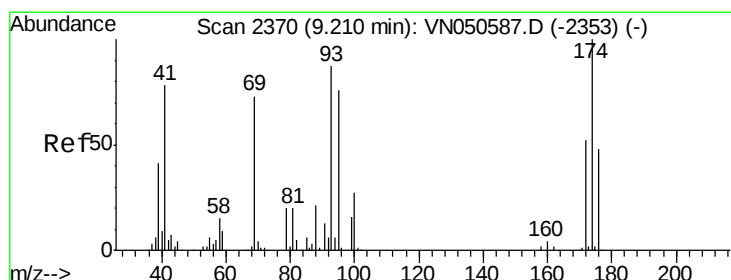
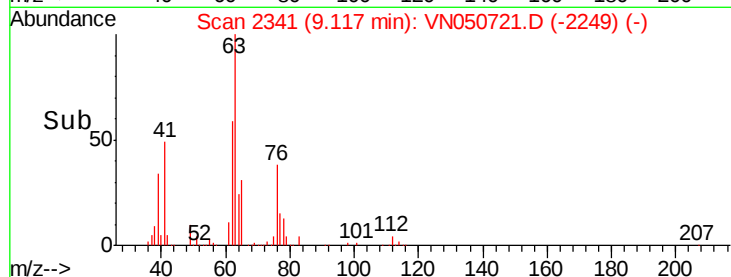
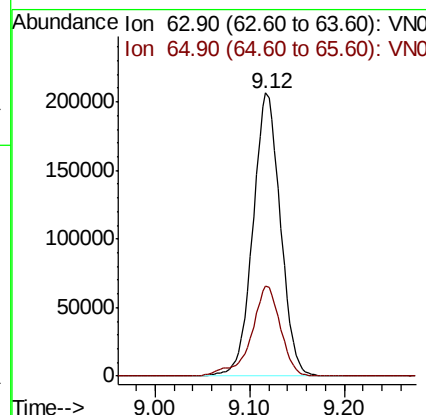
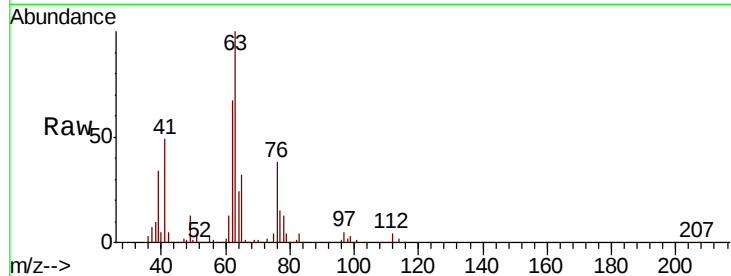
#45
 1,2-Dichloropropane
 Concen: 49.18 ug/l
 RT: 9.12 min Scan# 2341
 Delta R.T. -0.00 min
 Lab File: VN050721.D
 Acq: 17 Aug 2018 11:20

Instrument :
 MSVOA_N
 ClientSampleId :
 VSTDCCC050

Tot Ion	Ratio	Lower	Upper
63	100		
65	31.7	24.5	36.7

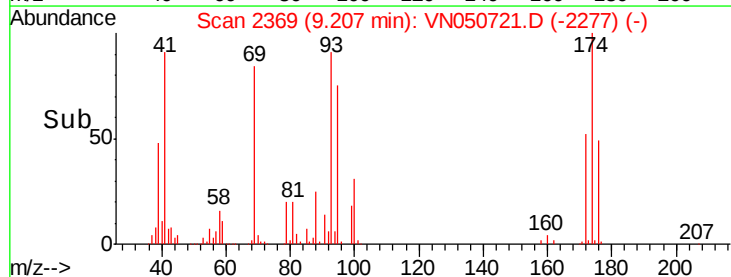
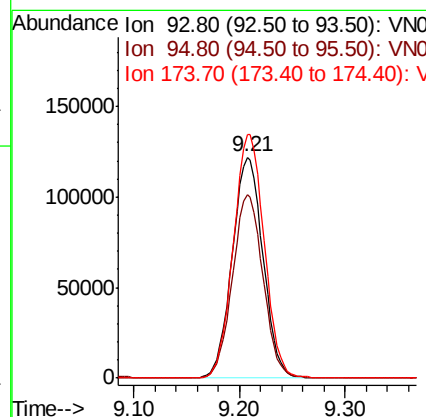
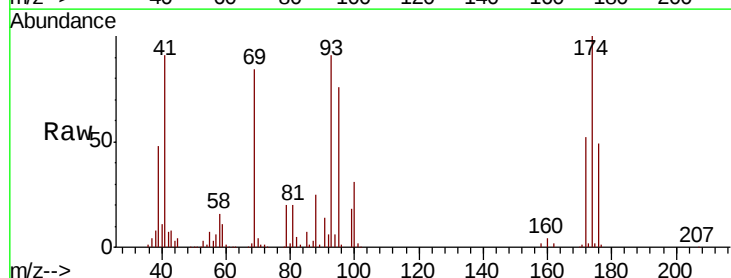
Manual Integrations
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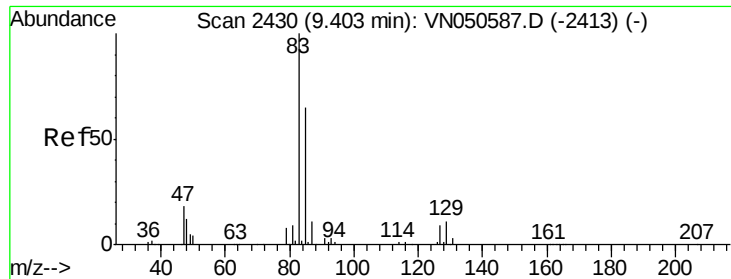
MMDadoda
 8/20/2018 10:52:52 AM



#46
 Dibromomethane
 Concen: 49.37 ug/l
 RT: 9.21 min Scan# 2369
 Delta R.T. -0.00 min
 Lab File: VN050721.D
 Acq: 17 Aug 2018 11:20

Tgt Ion	Ratio	Lower	Upper
93	100		
95	82.5	69.1	103.7
174	110.7	91.0	136.6





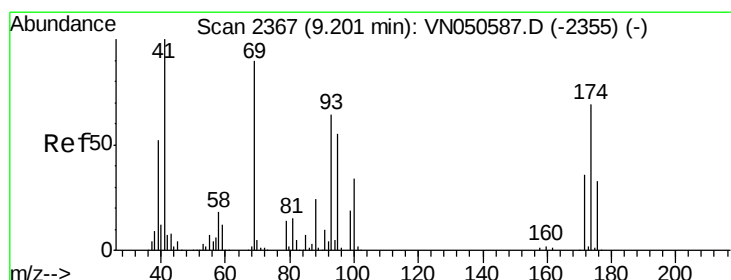
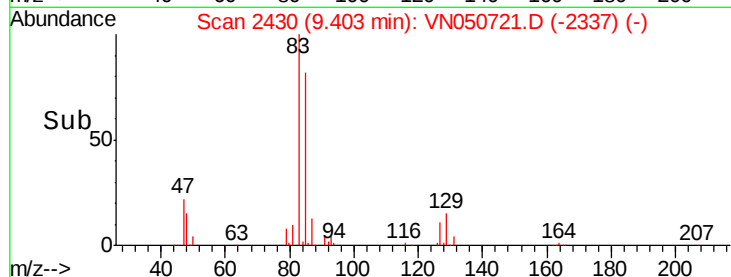
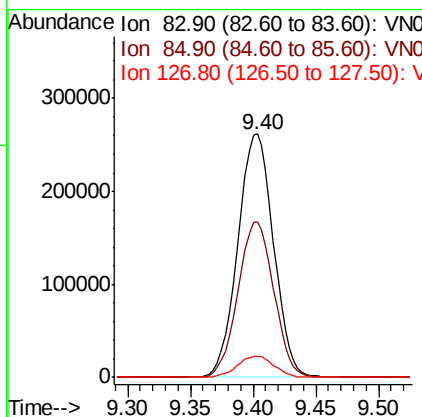
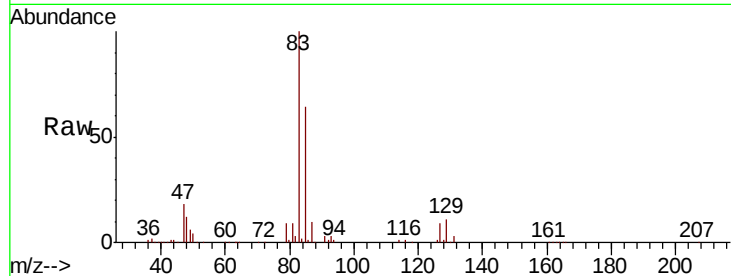
#47
Bromodichloromethane
Concen: 48.61 ug/l
RT: 9.40 min Scan# 2430
Delta R.T. 0.00 min
Lab File: VN050721.D
Acq: 17 Aug 2018 11:20

Instrument :
MSVOA_N
ClientSampleId :
VSTDCCC050

Tot Ion	Ratio	Resp	Lower	Upper
83	100	518795		
85	63.8	51.8	77.6	
127	8.8	7.2	10.8	

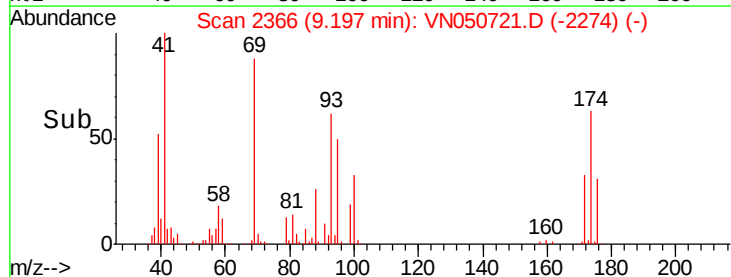
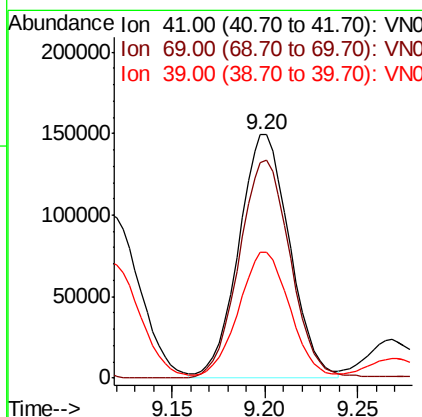
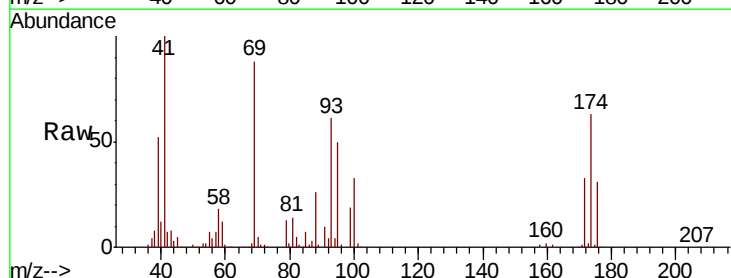
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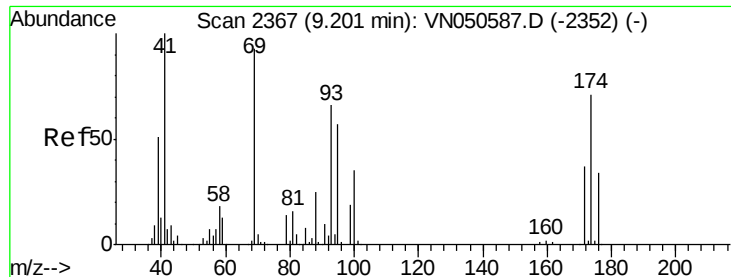
MMDadoda
8/20/2018 10:52:52 AM



#48
Methyl methacrylate
Concen: 52.18 ug/l
RT: 9.20 min Scan# 2366
Delta R.T. -0.00 min
Lab File: VN050721.D
Acq: 17 Aug 2018 11:20

Tgt Ion	Ratio	Resp	Lower	Upper
41	100	282381		
69	91.0	73.4	110.0	
39	52.6	43.0	64.6	





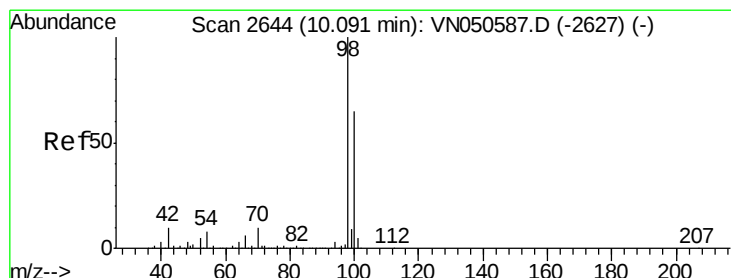
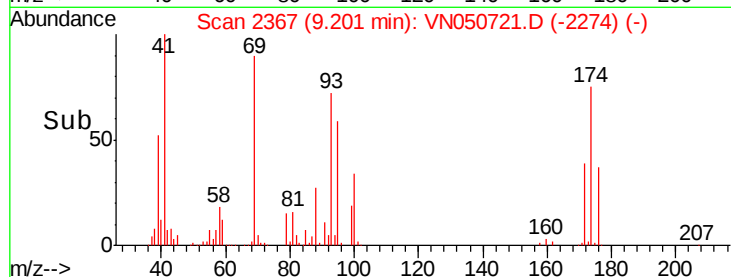
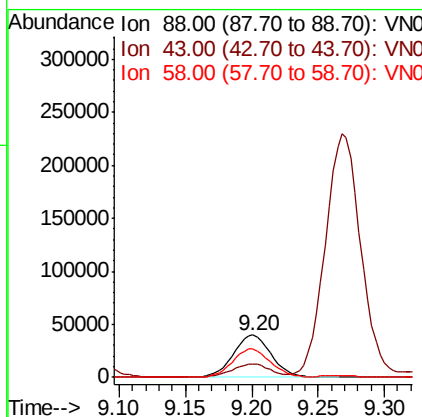
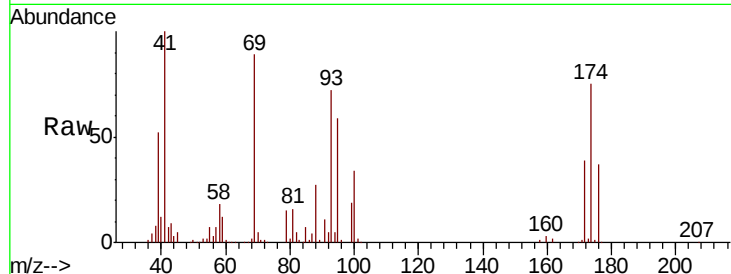
#49
1,4-Dioxane
Concen: 1114.38 ug/l
RT: 9.20 min Scan# 2367
Delta R.T. 0.00 min
Lab File: VN050721.D
Acq: 17 Aug 2018 11:20

Instrument :
MSVOA_N
ClientSampleId :
VSTDCCC050

Tot Ion	88	Resp	79448
Ion Ratio	Lower	Upper	
88	100		
43	30.7	25.9	38.9
58	67.2	56.5	84.7

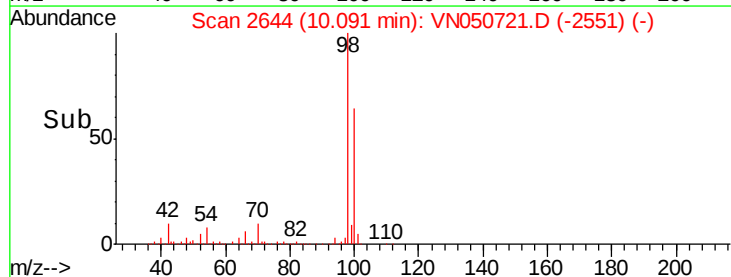
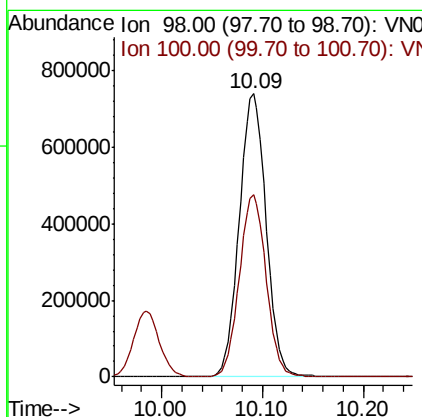
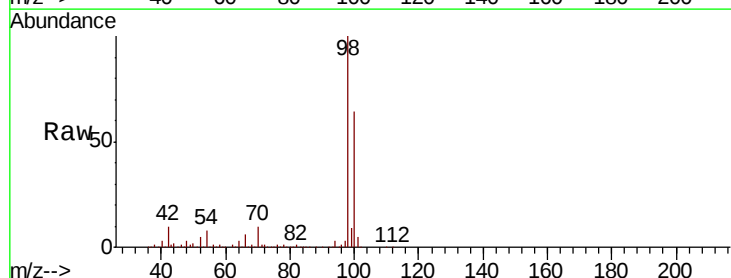
Manual Integrations
APPROVED

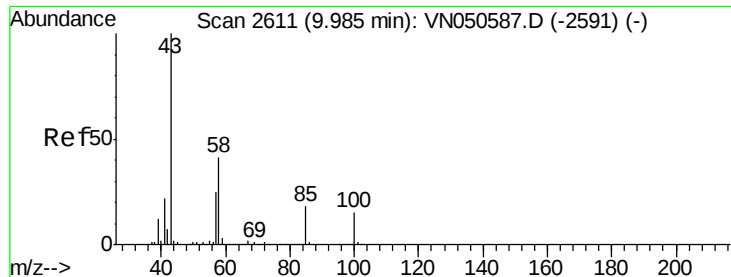
MMDadoda
8/20/2018 10:52:52 AM



#50
Toluene-d8
Concen: 48.42 ug/l
RT: 10.09 min Scan# 2644
Delta R.T. 0.00 min
Lab File: VN050721.D
Acq: 17 Aug 2018 11:20

Tgt Ion	98	Resp	1364401
Ion Ratio	Lower	Upper	
98	100		
100	64.2	51.8	77.8





#51

4-Methyl-2-Pentanone

Concen: 271.66 ug/l

RT: 9.99 min Scan# 2611

Delta R.T. 0.00 min

Lab File: VN050721.D

Acq: 17 Aug 2018 11:20

Instrument :

MSVOA_N

ClientSampleId :

VSTDCCC050

Tot Ion: 43 Resp: 1976006

Ion Ratio Lower Upper

43 100

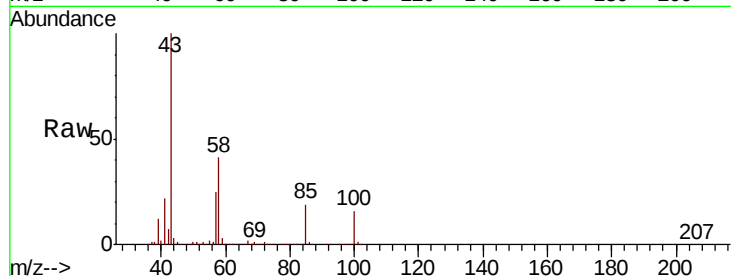
58 40.8 32.5 48.7

Manual Integrations

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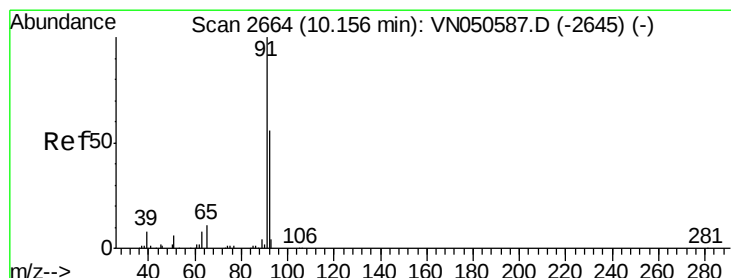
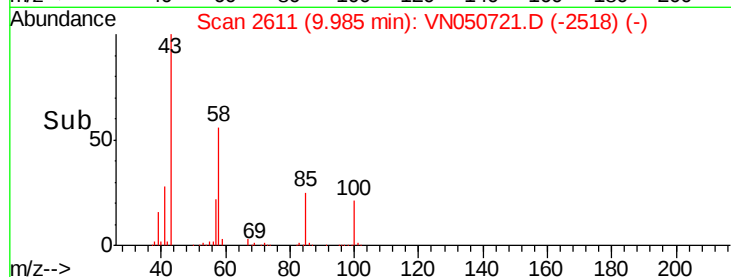
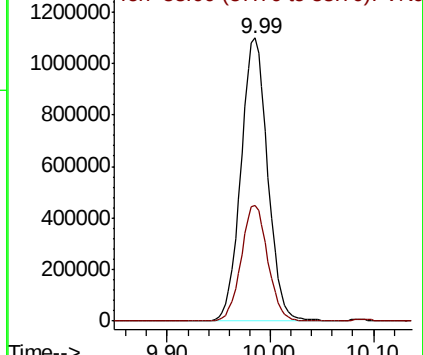
MMDadoda

8/20/2018 10:52:52 AM



Abundance Ion 43.00 (42.70 to 43.70): VN0

Ion 58.00 (57.70 to 58.70): VN0



#52

Toluene

Concen: 51.56 ug/l

RT: 10.16 min Scan# 2664

Delta R.T. 0.00 min

Lab File: VN050721.D

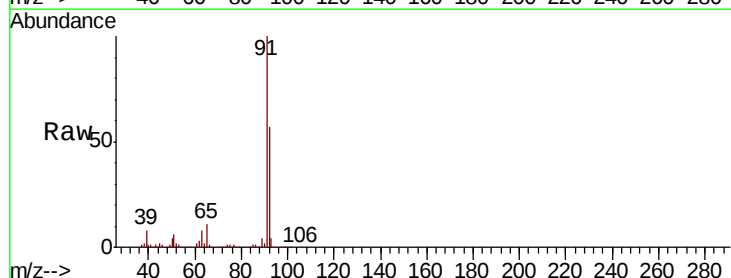
Acq: 17 Aug 2018 11:20

Tgt Ion: 92 Resp: 977851

Ion Ratio Lower Upper

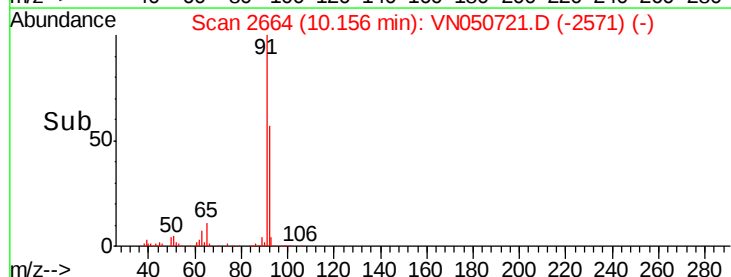
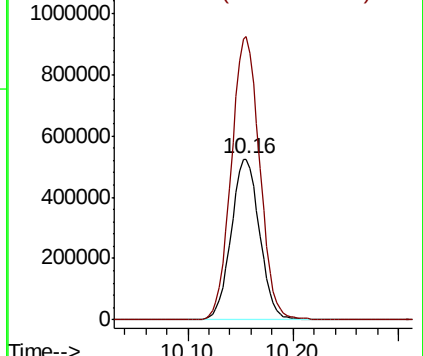
92 100

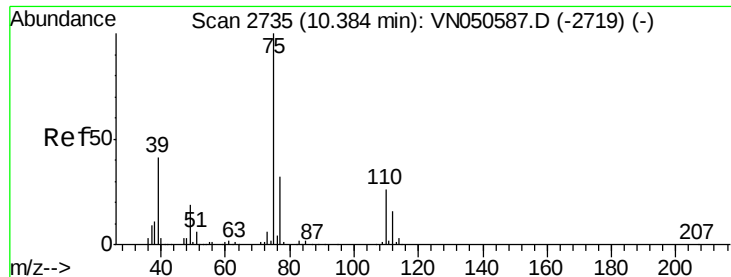
91 176.1 141.9 212.9



Abundance Ion 92.00 (91.70 to 92.70): VN0

Ion 91.00 (90.70 to 91.70): VN0





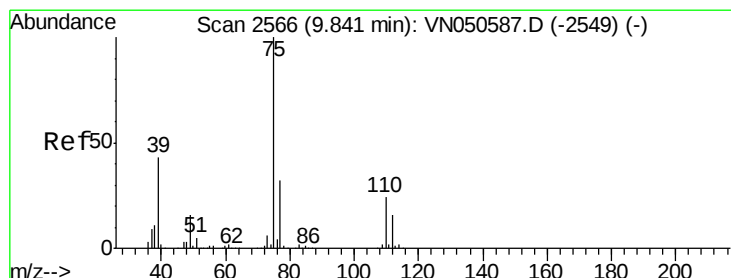
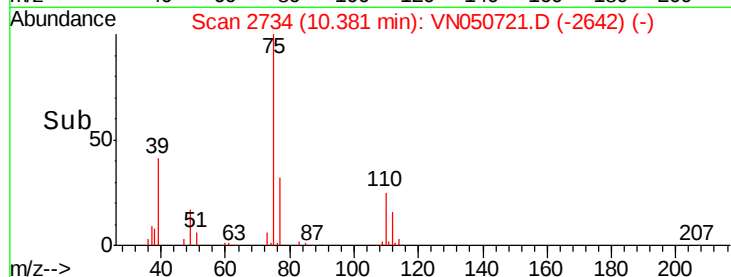
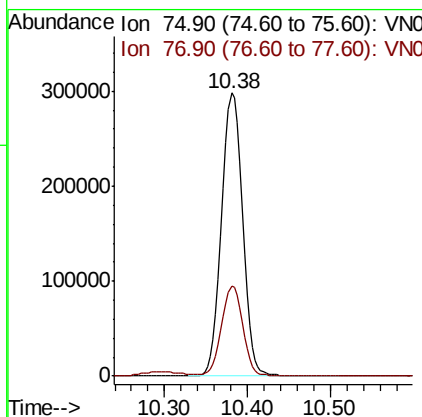
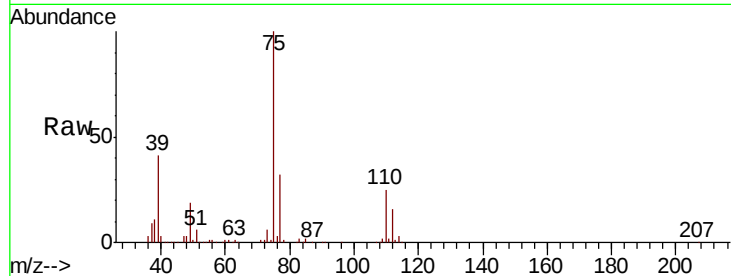
#53
t-1,3-Dichloropropene
Concen: 53.07 ug/l
RT: 10.38 min Scan# 2734
Delta R.T. -0.00 min
Lab File: VN050721.D
Acq: 17 Aug 2018 11:20

Instrument :
MSVOA_N
ClientSampleId :
VSTDCCC050

Tot Ion	Ratio	Lower	Upper
75	100		
77	31.8	25.8	38.6

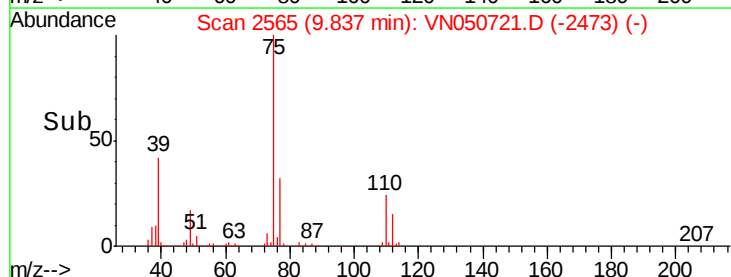
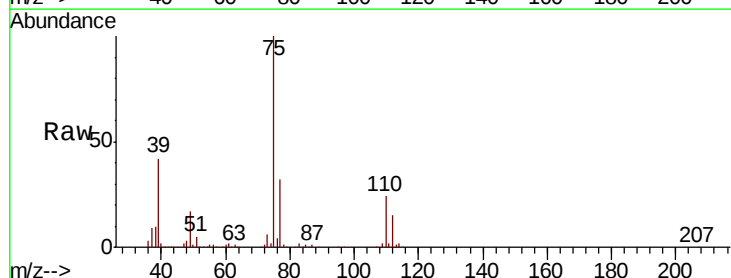
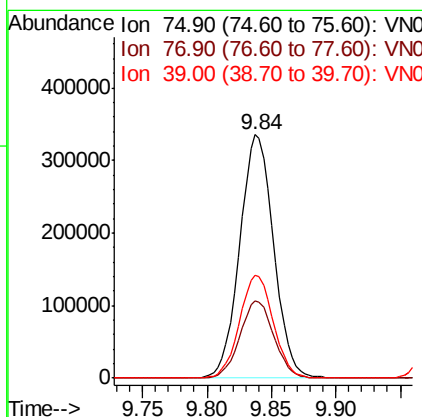
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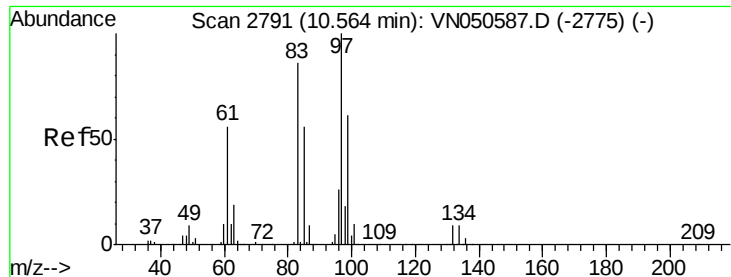
MMDadoda
8/20/2018 10:52:52 AM



#54
cis-1,3-Dichloropropene
Concen: 53.80 ug/l
RT: 9.84 min Scan# 2565
Delta R.T. -0.00 min
Lab File: VN050721.D
Acq: 17 Aug 2018 11:20

Tgt Ion	Ratio	Lower	Upper
75	100		
77	31.9	25.6	38.4
39	42.4	34.4	51.6





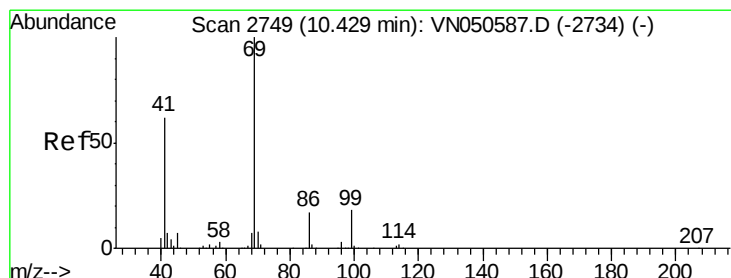
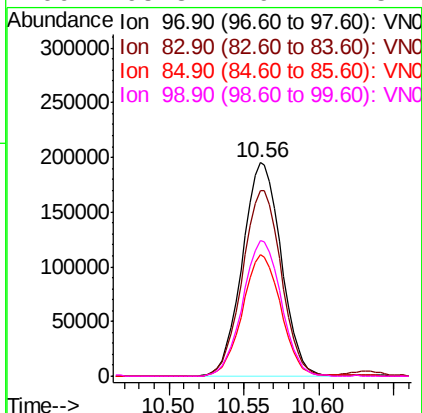
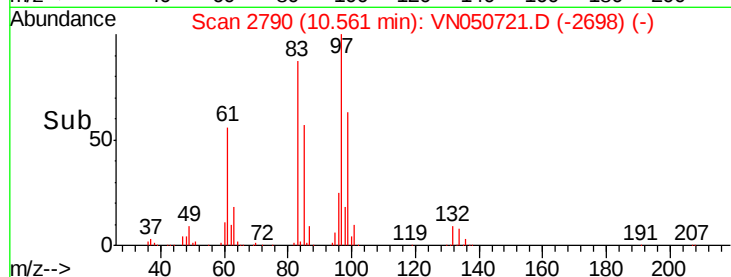
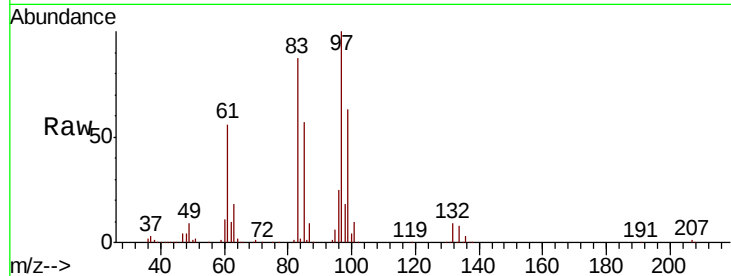
#55
 1,1,2-Trichloroethane
 Concen: 49.83 ug/l
 RT: 10.56 min Scan# 2790
 Delta R.T. -0.00 min
 Lab File: VN050721.D
 Acq: 17 Aug 2018 11:20

Instrument :
 MSVOA_N
 ClientSampleId :
 VSTDCCC050

Tot Ion	Ion	Ratio	Lower	Upper
97	100			
83	86.8	68.5	102.7	
85	57.1	44.6	66.8	
99	63.3	49.1	73.7	

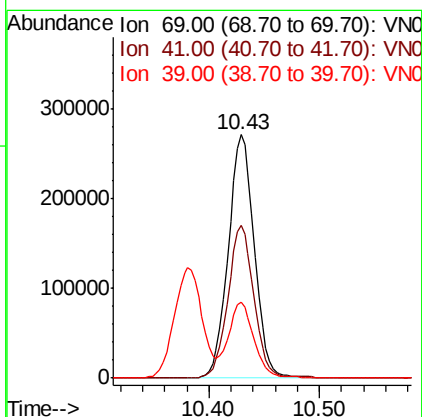
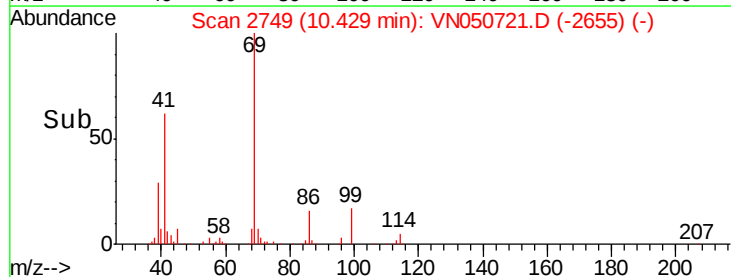
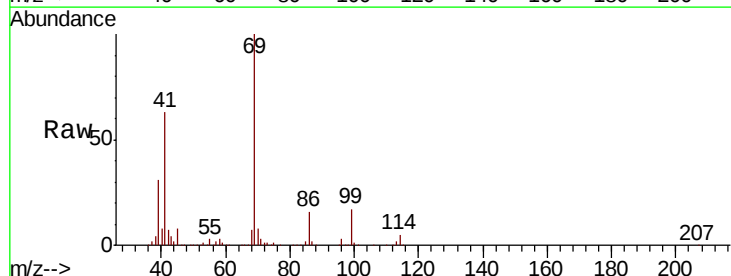
Manual Integrations
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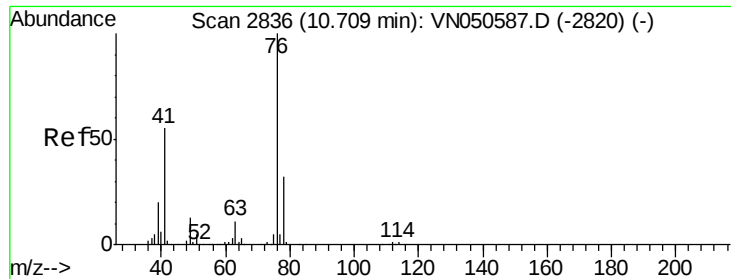
MMDadoda
 8/20/2018 10:52:52 AM



#56
 Ethyl methacrylate
 Concen: 49.12 ug/l
 RT: 10.43 min Scan# 2749
 Delta R.T. 0.00 min
 Lab File: VN050721.D
 Acq: 17 Aug 2018 11:20

Tgt Ion	Ion	Ratio	Lower	Upper
69	100			
41	62.7	49.7	74.5	
39	30.5	24.2	36.2	





#57

1,3-Dichloropropane

Concen: 51.41 ug/l

RT: 10.71 min Scan# 2835

Delta R.T. -0.00 min

Lab File: VN050721.D

Acq: 17 Aug 2018 11:20

Instrument :

MSVOA_N

ClientSampleId :

VSTDCCC050

Tot Ion: 76 Resp: 597084

Ion Ratio Lower Upper

76 100

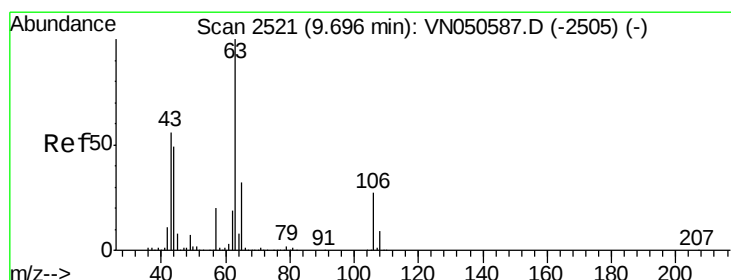
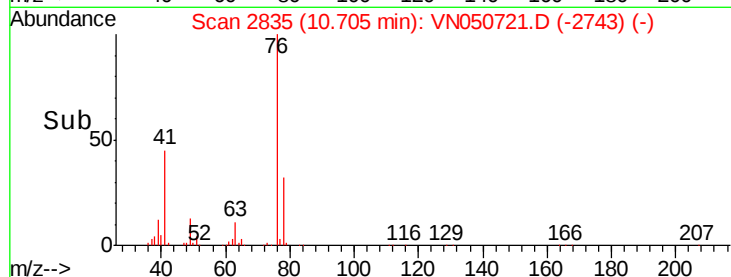
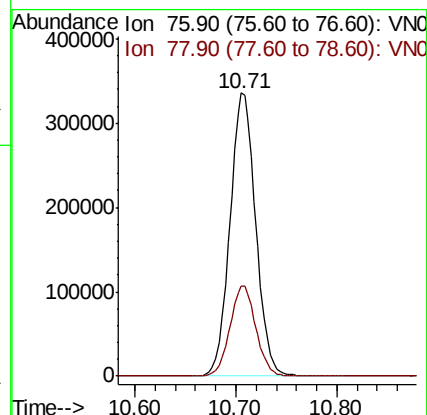
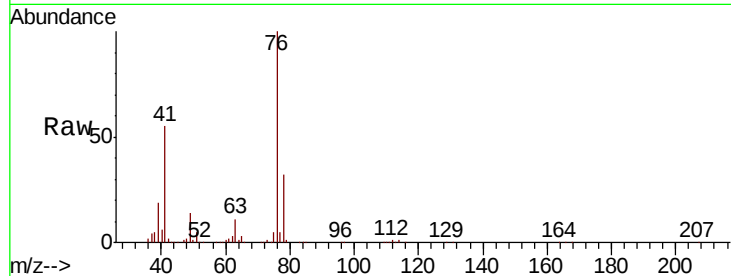
78 32.2 25.8 38.6

Manual Integrations

APPROVED

MMDadoda

8/20/2018 10:52:52 AM



#58

2-Chloroethyl Vinyl ether

Concen: 249.18 ug/l

RT: 9.70 min Scan# 2521

Delta R.T. 0.00 min

Lab File: VN050721.D

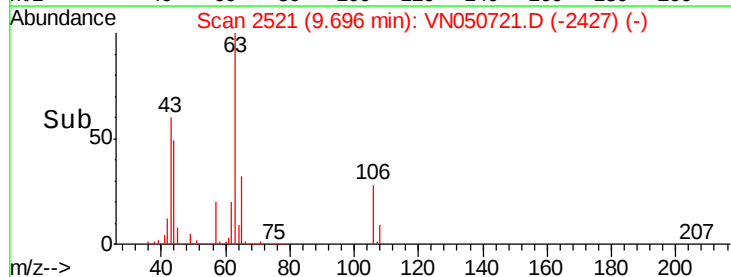
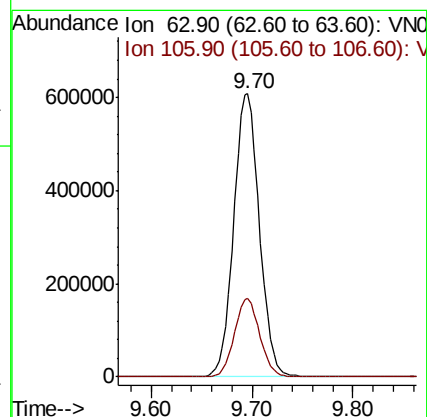
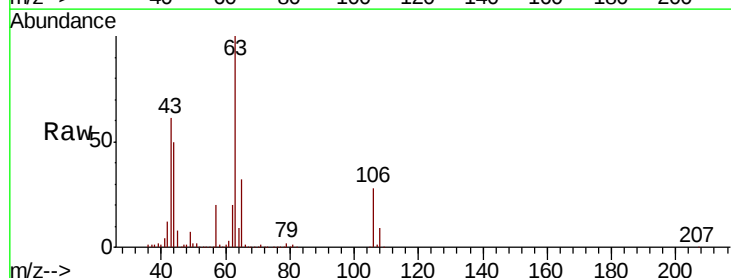
Acq: 17 Aug 2018 11:20

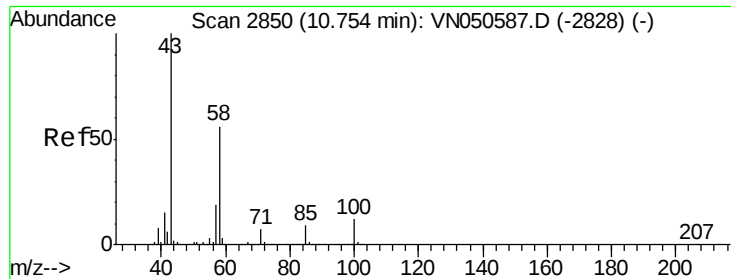
Tgt Ion: 63 Resp: 1078553

Ion Ratio Lower Upper

63 100

106 27.4 21.7 32.5





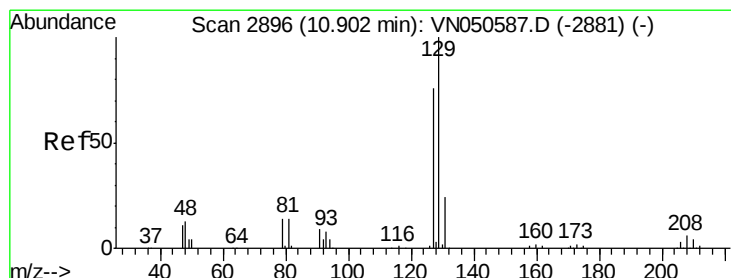
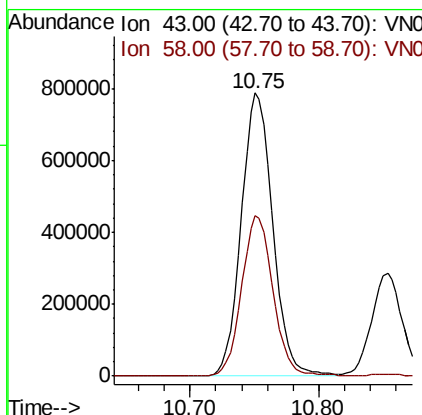
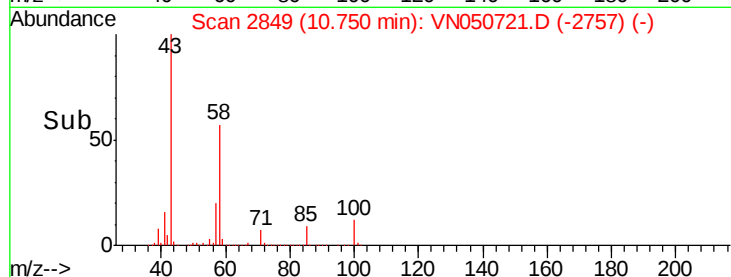
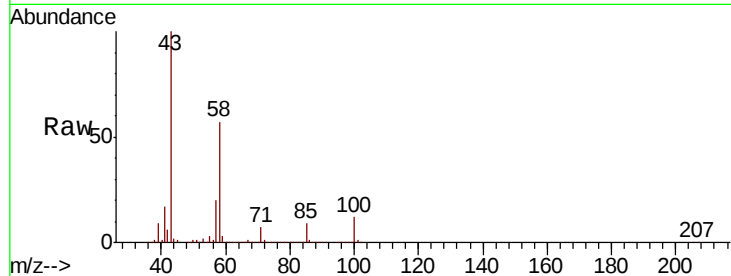
#59
2-Hexanone
Concen: 285.07 ug/l
RT: 10.75 min Scan# 2849
Delta R.T. -0.00 min
Lab File: VN050721.D
Acq: 17 Aug 2018 11:20

Instrument :
MSVOA_N
ClientSampleId :
VSTDCCC050

Tot Ion: 43 Resp: 1338282
Ion Ratio Lower Upper
43 100
58 56.5 28.0 84.0

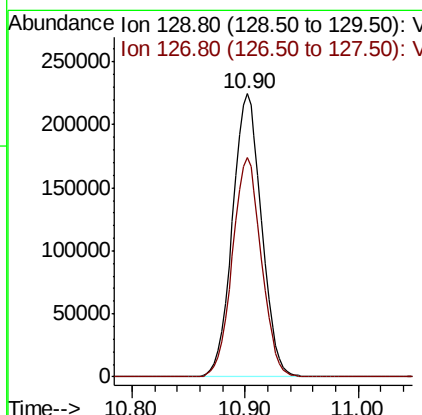
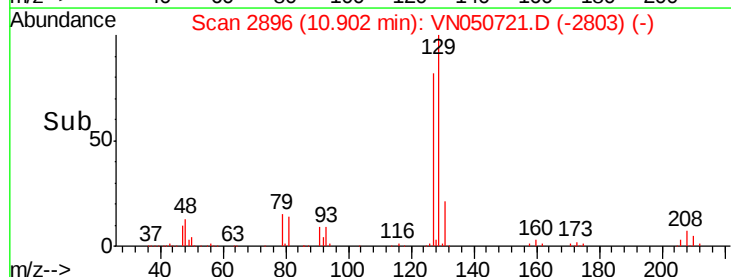
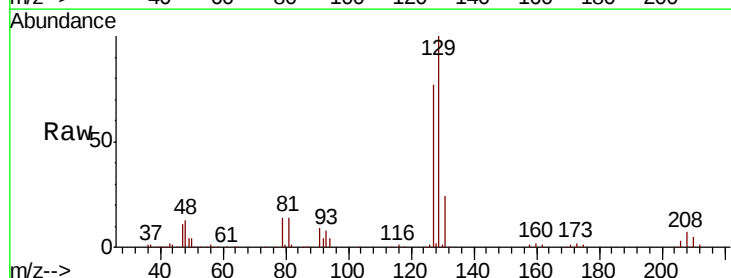
Manual Integrations
APPROVED

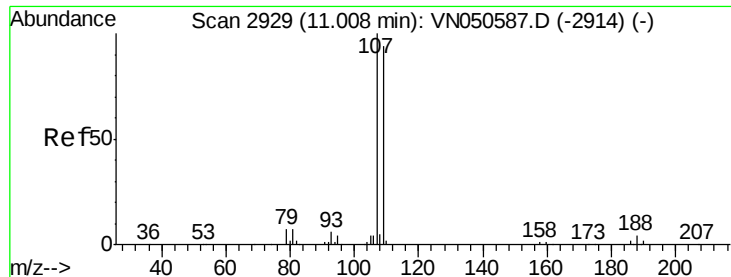
MMDadoda
8/20/2018 10:52:52 AM



#60
Dibromochloromethane
Concen: 51.34 ug/l
RT: 10.90 min Scan# 2896
Delta R.T. 0.00 min
Lab File: VN050721.D
Acq: 17 Aug 2018 11:20

Tgt Ion: 129 Resp: 401448
Ion Ratio Lower Upper
129 100
127 77.1 38.9 116.7





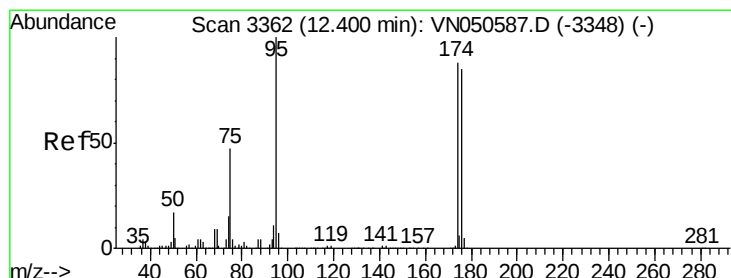
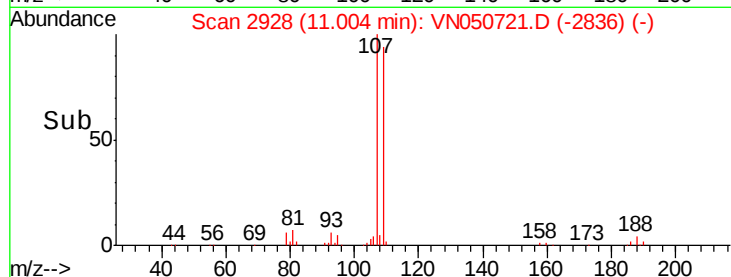
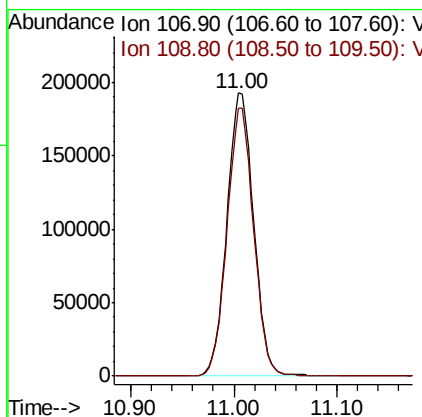
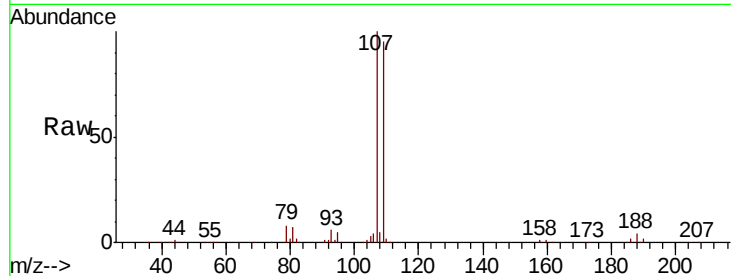
#61
1,2-Dibromoethane
Concen: 51.65 ug/l
RT: 11.00 min Scan# 2928
Delta R.T. -0.00 min
Lab File: VN050721.D
Acq: 17 Aug 2018 11:20

Instrument :
MSVOA_N
ClientSampleId :
VSTDCCC050

Tot Ion	Ratio	Lower	Upper
107	100		
109	94.3	75.7	113.5

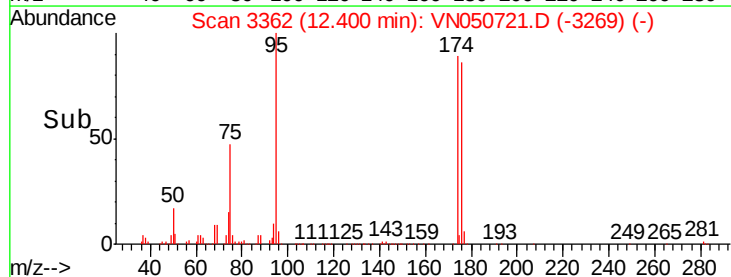
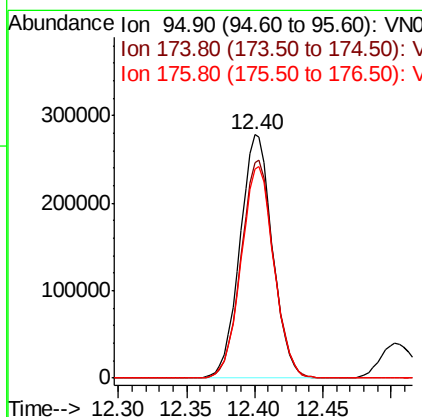
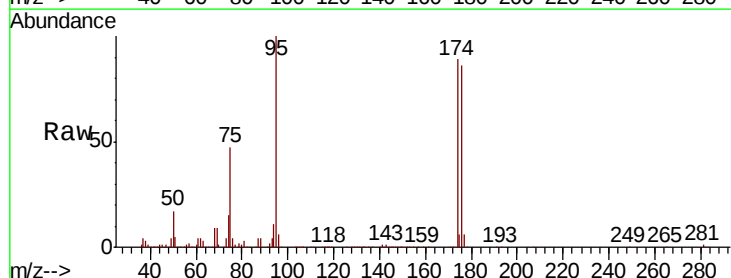
Manual Integrations
APPROVED

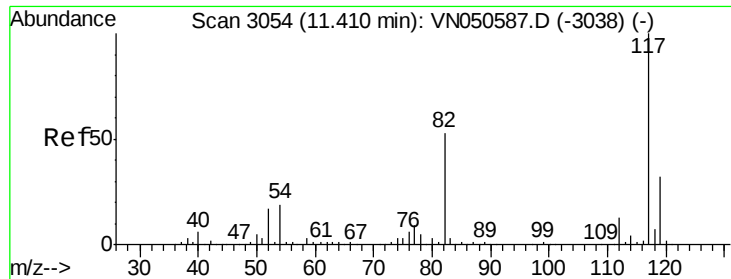
MMDadoda
8/20/2018 10:52:52 AM



#62
4-Bromofluorobenzene
Concen: 49.42 ug/l
RT: 12.40 min Scan# 3362
Delta R.T. 0.00 min
Lab File: VN050721.D
Acq: 17 Aug 2018 11:20

Tgt Ion	Ratio	Lower	Upper
95	100		
174	90.0	0.0	177.8
176	87.5	0.0	175.0





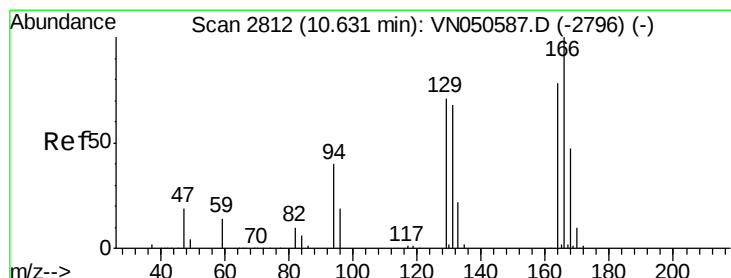
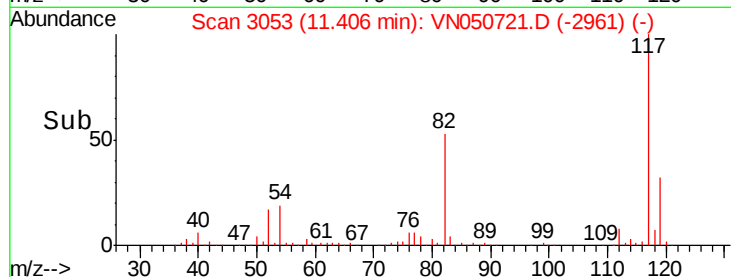
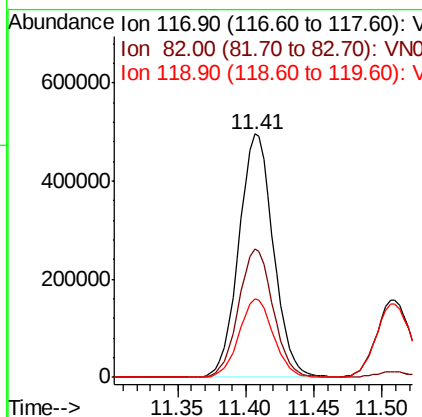
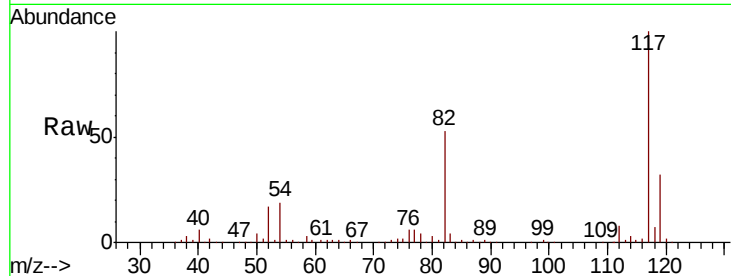
#63
Chlorobenzene-d5
Concen: 50.00 ug/l
RT: 11.41 min Scan# 3053
Delta R.T. -0.00 min
Lab File: VN050721.D
Acq: 17 Aug 2018 11:20

Instrument :
MSVOA_N
ClientSampleId :
VSTDCCC050

Tot Ion	Ratio	Lower	Upper
117	100		
82	52.6	42.4	63.6
119	32.1	25.8	38.8

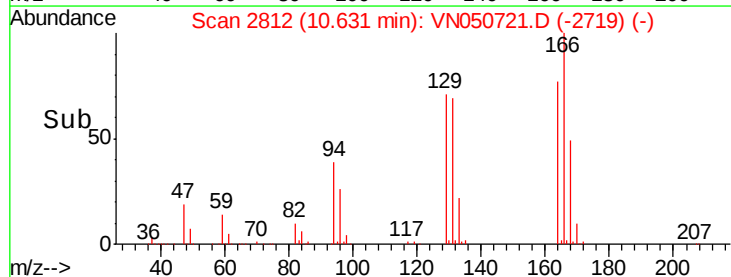
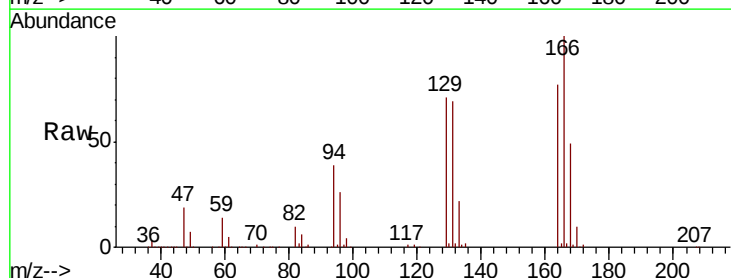
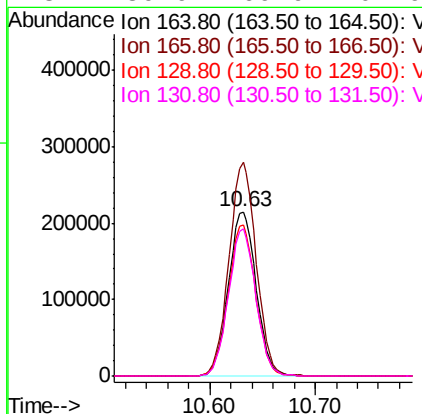
Manual Integrations
APPROVED

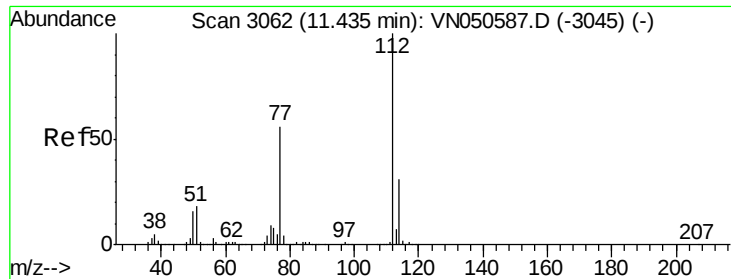
MMDadoda
8/20/2018 10:52:52 AM



#64
Tetrachloroethene
Concen: 48.13 ug/l
RT: 10.63 min Scan# 2812
Delta R.T. 0.00 min
Lab File: VN050721.D
Acq: 17 Aug 2018 11:20

Tgt Ion	Ratio	Lower	Upper
164	100		
166	129.9	102.1	153.1
129	91.8	72.7	109.1
131	89.9	69.9	104.9





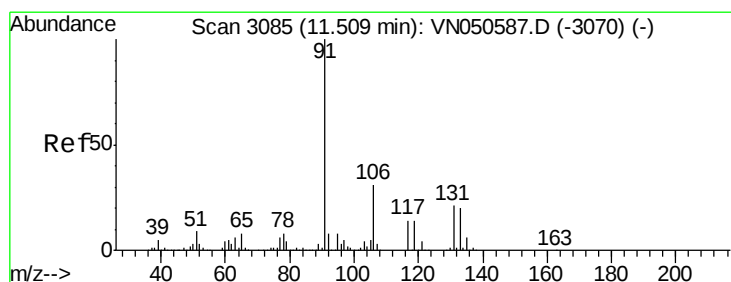
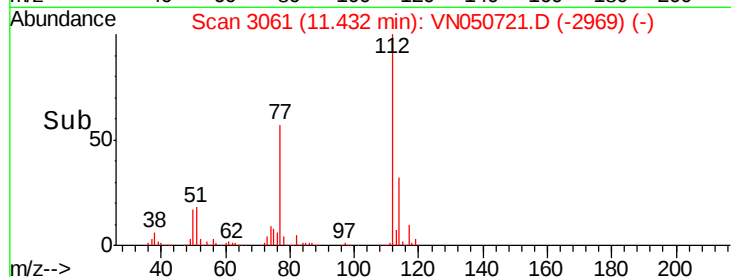
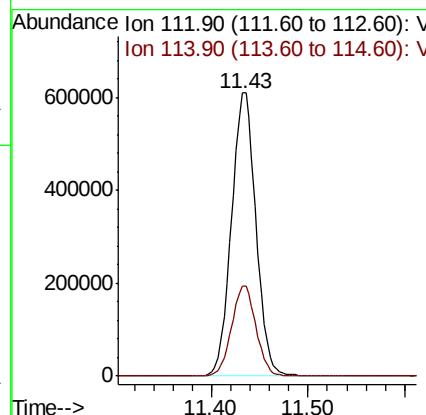
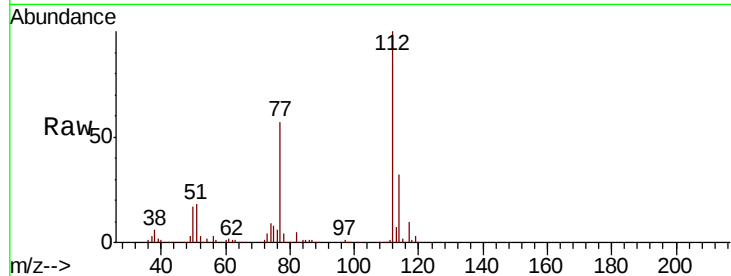
#65
Chlorobenzene
Concen: 49.28 ug/l
RT: 11.43 min Scan# 3061
Delta R.T. -0.00 min
Lab File: VN050721.D
Acq: 17 Aug 2018 11:20

Instrument :
MSVOA_N
ClientSampleId :
VSTDCCC050

Tot Ion:112 Resp: 1070018
Ion Ratio Lower Upper
112 100
114 31.9 25.2 37.8

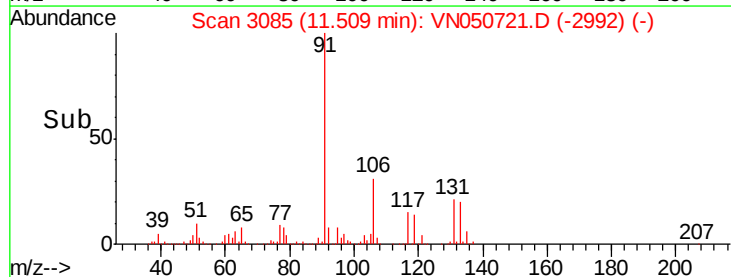
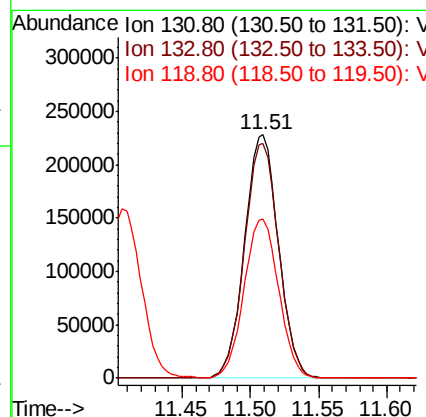
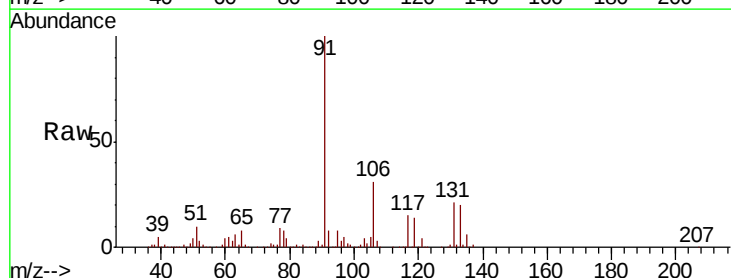
Manual Integrations
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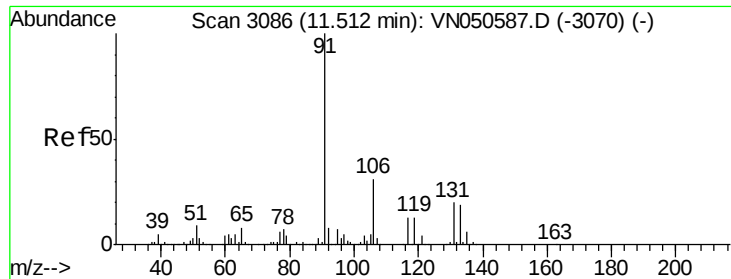
MMDadoda
8/20/2018 10:52:52 AM



#66
1,1,1,2-Tetrachloroethane
Concen: 48.33 ug/l
RT: 11.51 min Scan# 3085
Delta R.T. 0.00 min
Lab File: VN050721.D
Acq: 17 Aug 2018 11:20

Tgt Ion:131 Resp: 393426
Ion Ratio Lower Upper
131 100
133 97.5 47.6 142.9
119 66.9 33.1 99.3





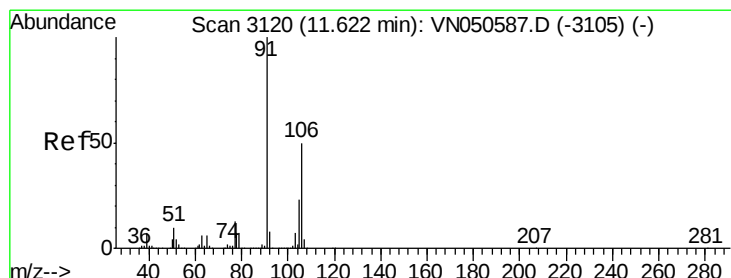
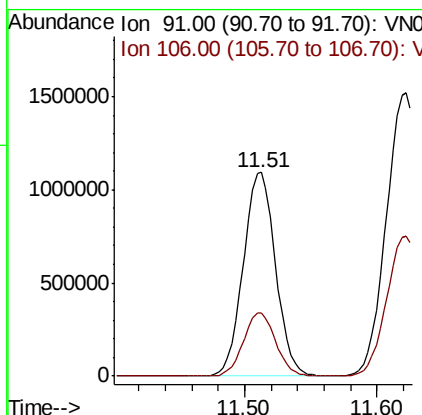
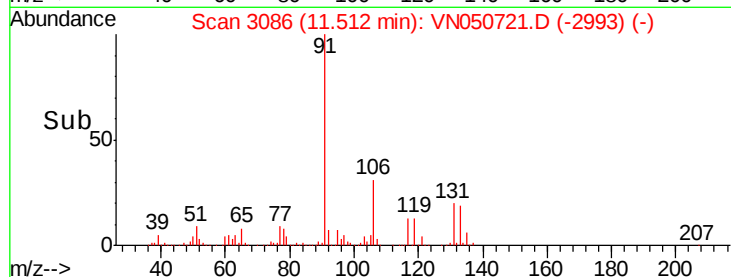
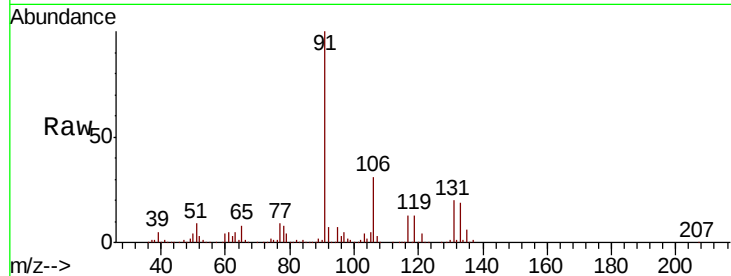
#67
Ethyl Benzene
Concen: 52.57 ug/l
RT: 11.51 min Scan# 3086
Delta R.T. 0.00 min
Lab File: VN050721.D
Acq: 17 Aug 2018 11:20

Instrument :
MSVOA_N
ClientSampleId :
VSTDCCC050

Tot Ion: 91 Resp: 1843049
Ion Ratio Lower Upper
91 100
106 31.1 24.8 37.2

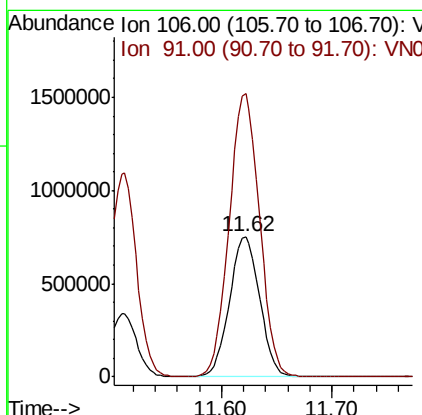
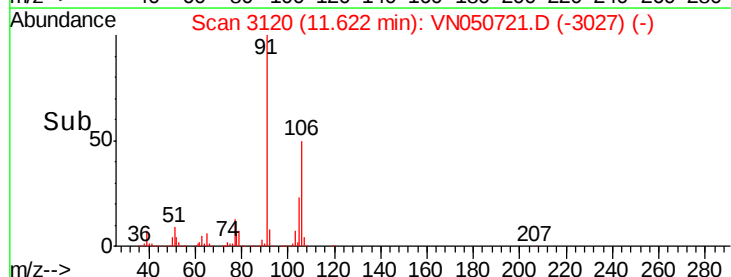
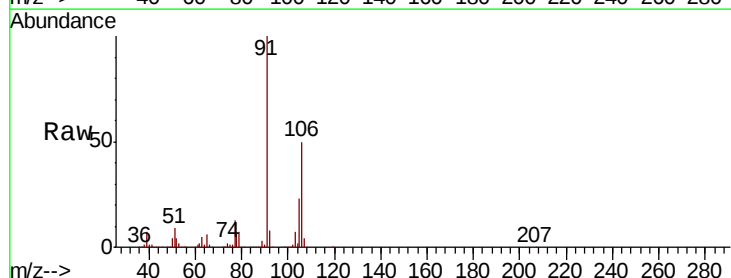
Manual Integrations
APPROVED

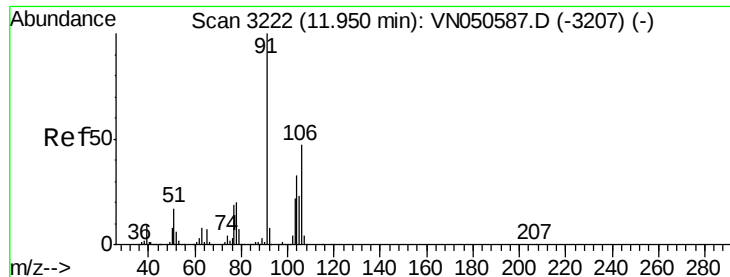
MMDadoda
8/20/2018 10:52:52 AM



#68
m/p-Xylenes
Concen: 106.41 ug/l
RT: 11.62 min Scan# 3120
Delta R.T. 0.00 min
Lab File: VN050721.D
Acq: 17 Aug 2018 11:20

Tgt Ion: 106 Resp: 1426925
Ion Ratio Lower Upper
106 100
91 202.9 161.5 242.3





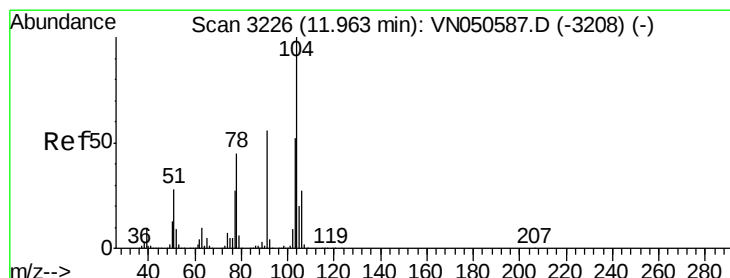
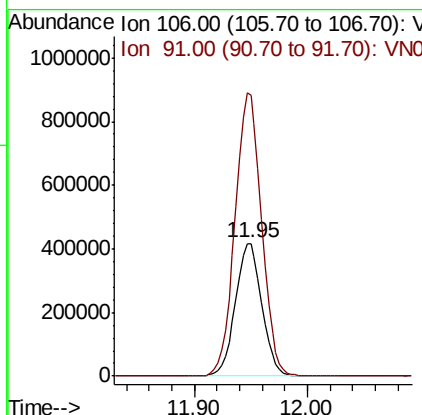
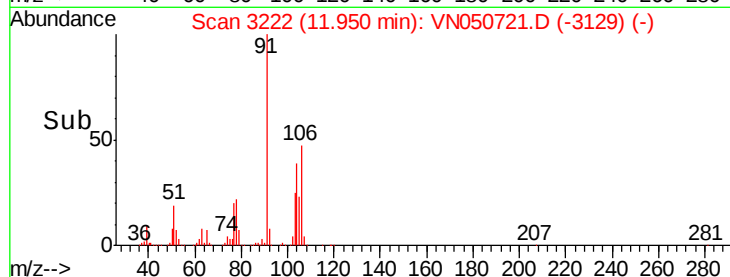
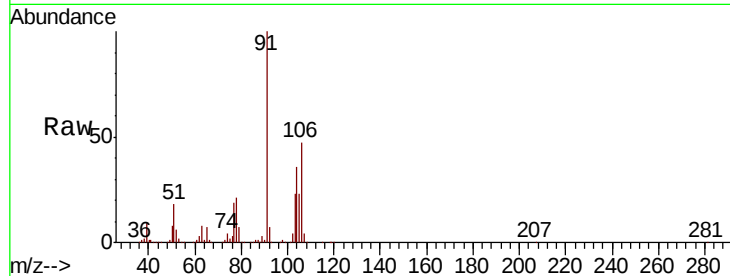
#69
o-Xylene
Concen: 53.00 ug/l
RT: 11.95 min Scan# 3222
Delta R.T. 0.00 min
Lab File: VN050721.D
Acq: 17 Aug 2018 11:20

Instrument :
MSVOA_N
ClientSampled :
VSTDCCC050

Tot Ion	Ratio	Lower	Upper
106	100		
91	214.6	106.8	320.4

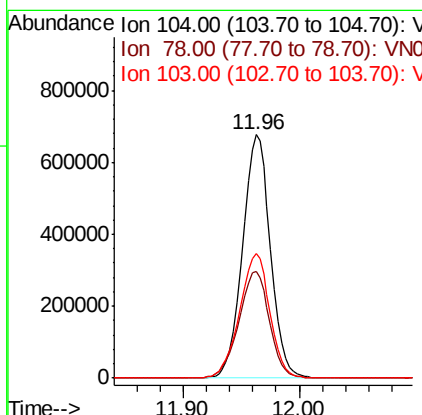
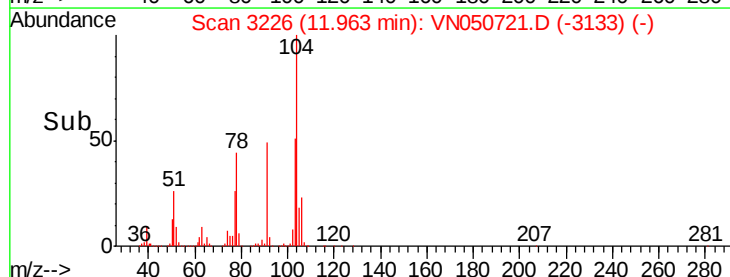
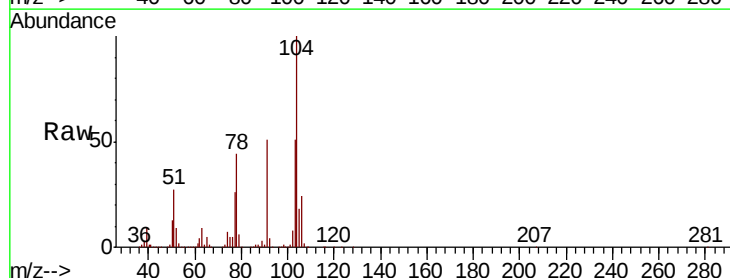
Manual Integrations
APPROVED

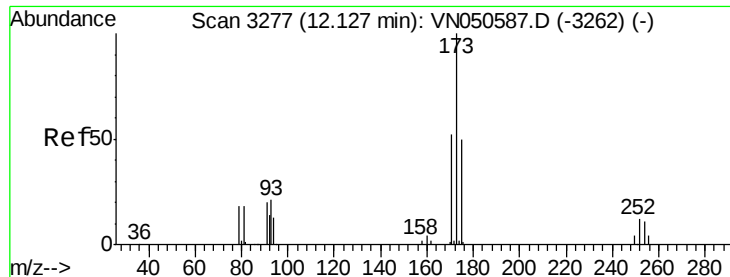
MMDadoda
8/20/2018 10:52:52 AM



#70
Styrene
Concen: 49.62 ug/l
RT: 11.96 min Scan# 3226
Delta R.T. 0.00 min
Lab File: VN050721.D
Acq: 17 Aug 2018 11:20

Tgt Ion	Ratio	Lower	Upper
104	100		
78	48.1	39.1	58.7
103	55.5	44.9	67.3





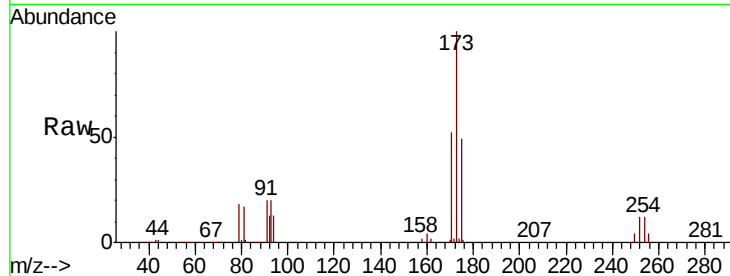
#71
Bromoform
Concen: 50.98 ug/l
RT: 12.13 min Scan# 3277
Delta R.T. 0.00 min
Lab File: VN050721.D
Acq: 17 Aug 2018 11:20

Instrument :
MSVOA_N
ClientSampleId :
VSTDCCC050

Tot Ion	Ratio	Lower	Upper
173	100		
175	48.7	24.4	73.2
254	0.1	0.0	0.0#

Manual Integrations
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8/20/2018 10:52:52 AM

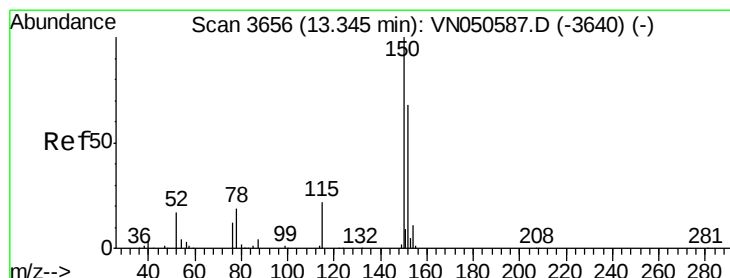
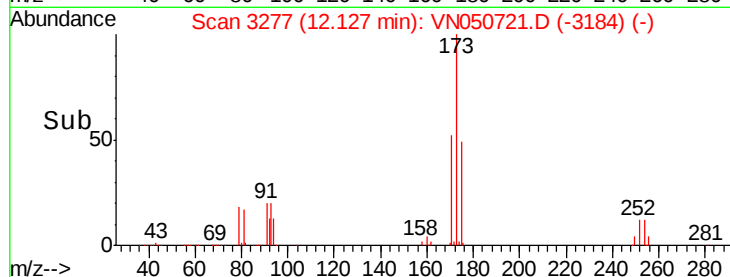
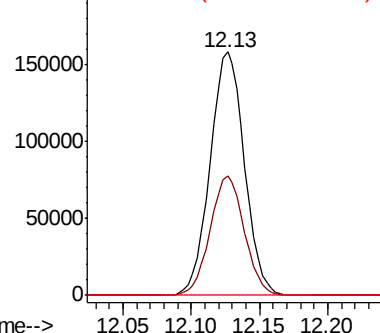


Abundance

Ion 172.70 (172.40 to 173.40): V

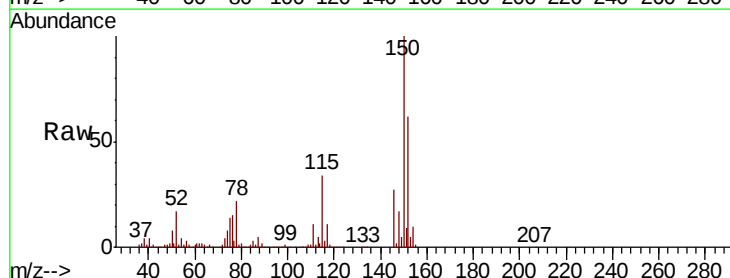
Ion 174.70 (174.40 to 175.40): V

Ion 254.40 (254.10 to 255.10): V



#72
1,4-Dichlorobenzene-d4
Concen: 50.00 ug/l
RT: 13.35 min Scan# 3656
Delta R.T. 0.00 min
Lab File: VN050721.D
Acq: 17 Aug 2018 11:20

Tgt Ion	Ratio	Lower	Upper
152	100		
115	55.8	28.1	84.2
150	174.9	0.0	347.8

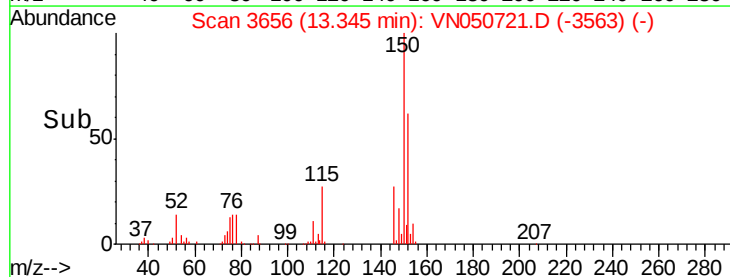
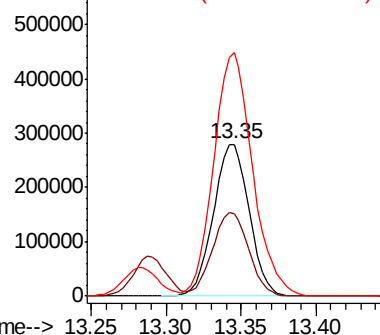


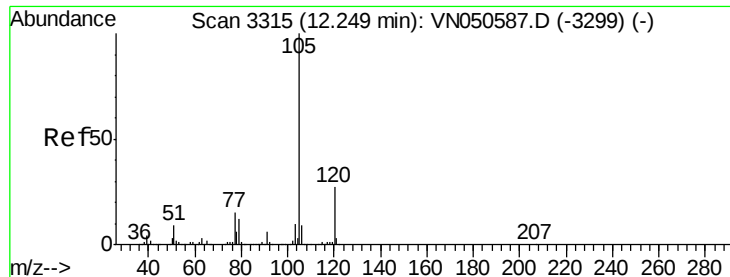
Abundance

Ion 151.90 (151.60 to 152.60): V

Ion 114.90 (114.60 to 115.60): V

Ion 149.90 (149.60 to 150.60): V





#73

Isopropylbenzene

Concen: 50.12 ug/l

RT: 12.25 min Scan# 3315

Delta R.T. 0.00 min

Lab File: VN050721.D

Acq: 17 Aug 2018 11:20

Instrument :

MSVOA_N

ClientSampled :

VSTDCCC050

Tot Ion: 105 Resp: 1810311

Ion Ratio Lower Upper

105 100

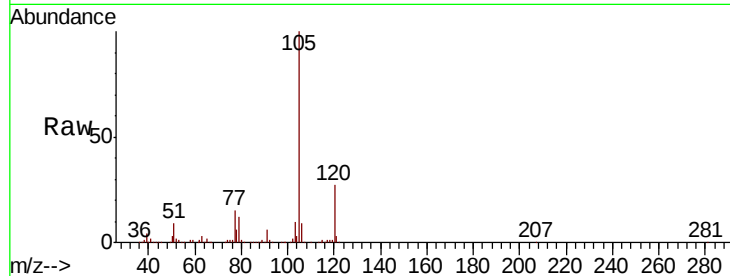
120 27.0 13.4 40.1

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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

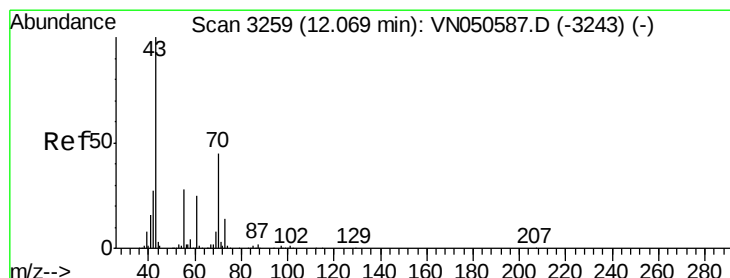
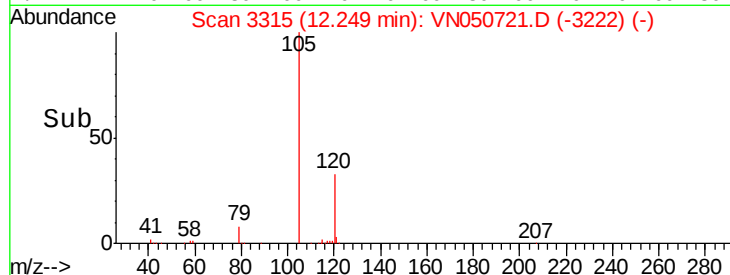
1000000

500000

0

Time-->

12.20 12.30



#74

N-ethyl acetate

Concen: 50.63 ug/l

RT: 12.07 min Scan# 3259

Delta R.T. 0.00 min

Lab File: VN050721.D

Acq: 17 Aug 2018 11:20

Tgt Ion: 43 Resp: 475744

Ion Ratio Lower Upper

43 100

70 45.2 35.9 53.9

55 27.2 22.2 33.4

61 25.3 20.0 30.0

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

500000

400000

300000

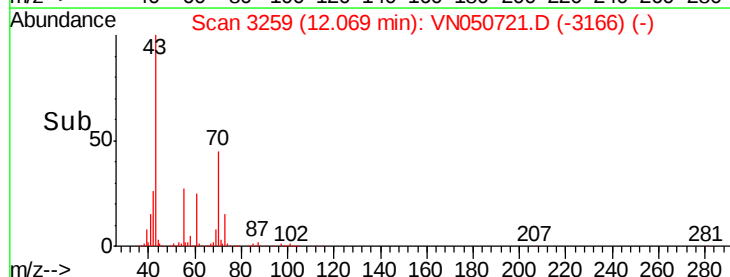
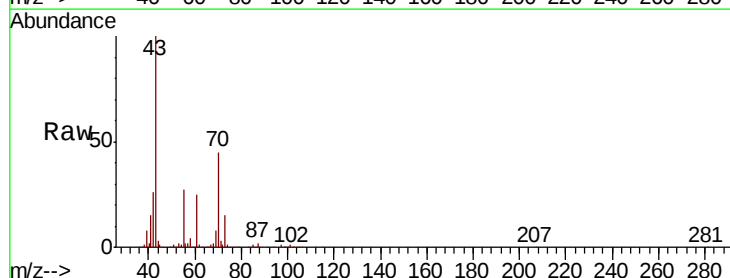
200000

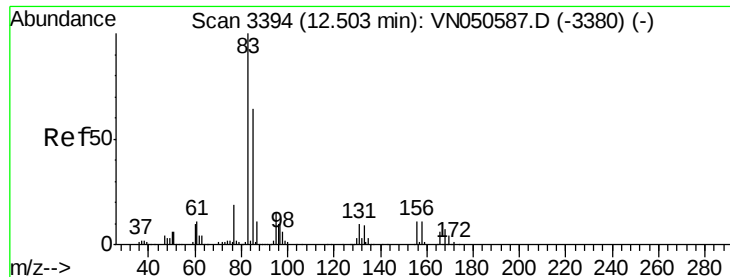
100000

0

Time-->

12.00 12.10





#75

1,1,2,2-Tetrachloroethane

Concen: 52.50 ug/l

RT: 12.50 min Scan# 3394

Delta R.T. 0.00 min

Lab File: VN050721.D

Acq: 17 Aug 2018 11:20

Instrument :

MSVOA_N

ClientSampleId :

VSTDCCC050

Tot Ion: 83 Resp: 439256
Ion Ratio Lower Upper

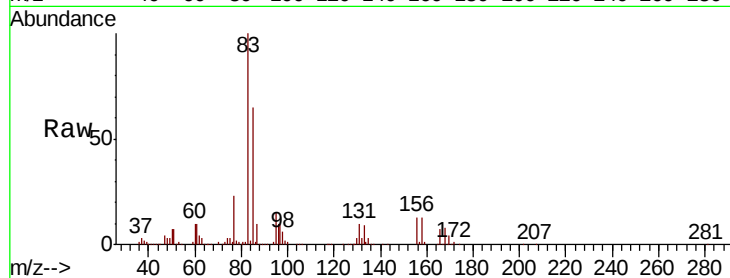
83 100

131 10.2 5.3 15.9

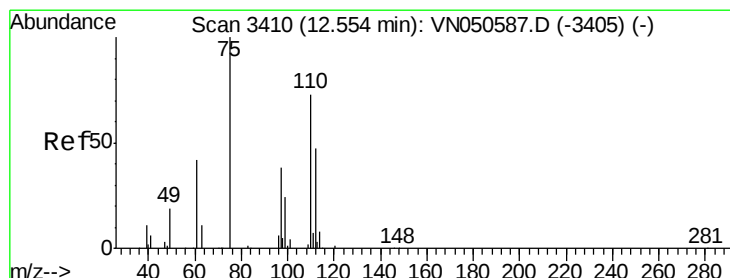
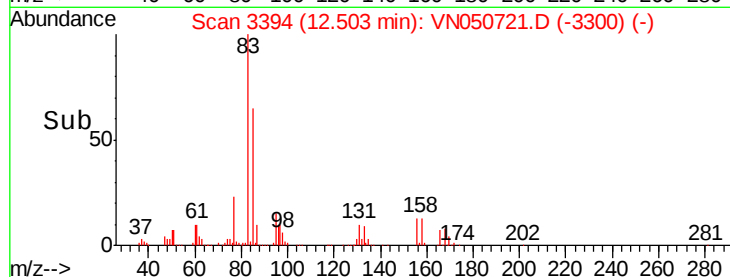
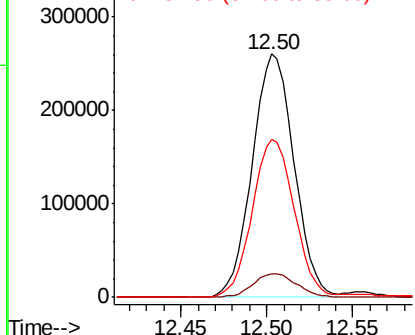
85 64.9 32.1 96.5

Manual Integrations
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Abundance Ion 82.90 (82.60 to 83.60): VN0
Ion 130.80 (130.50 to 131.50): V
Ion 84.90 (84.60 to 85.60): VN0



#76

1,2,3-Trichloropropane

Concen: 47.06 ug/l m

RT: 12.55 min Scan# 3410

Delta R.T. 0.00 min

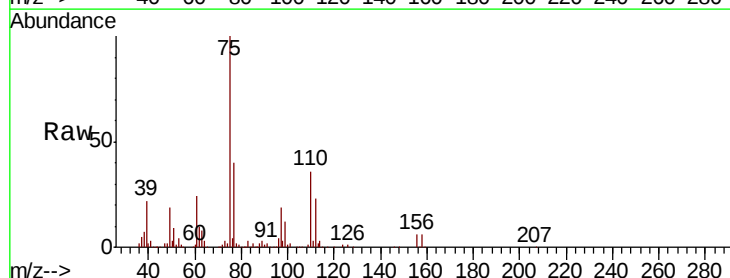
Lab File: VN050721.D

Acq: 17 Aug 2018 11:20

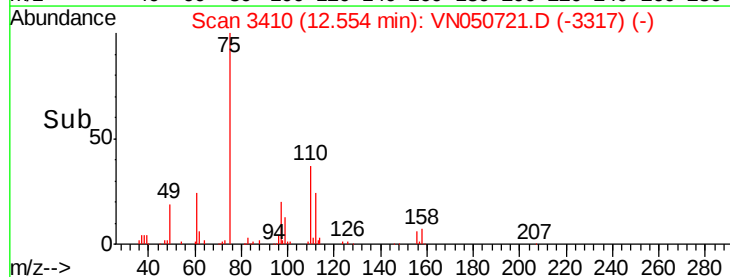
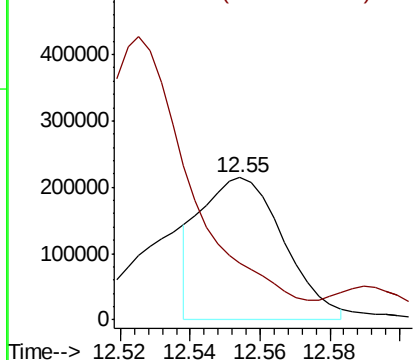
Tgt Ion: 75 Resp: 351945
Ion Ratio Lower Upper

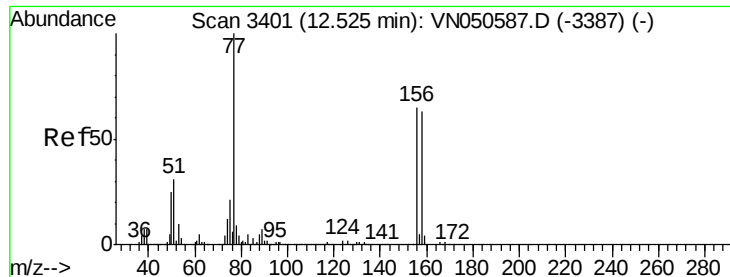
75 100

77 0.0 0.0 0.0



Abundance Ion 74.90 (74.60 to 75.60): VN0
Ion 77.00 (76.70 to 77.70): VN0





#77

Bromobenzene

Concen: 47.45 ug/l

RT: 12.53 min Scan# 3401

Delta R.T. 0.00 min

Lab File: VN050721.D

Acq: 17 Aug 2018 11:20

Instrument :

MSVOA_N

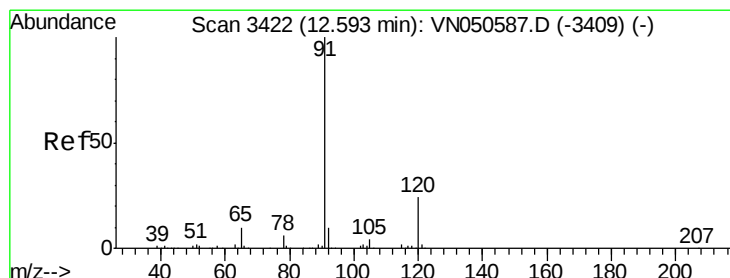
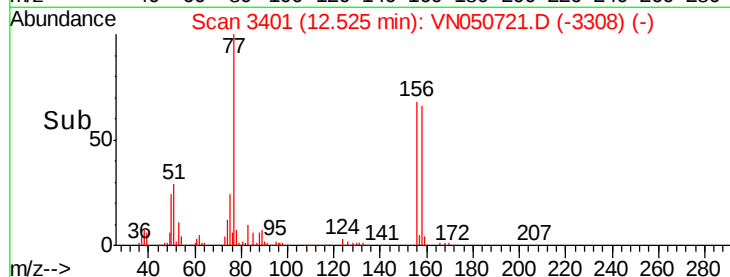
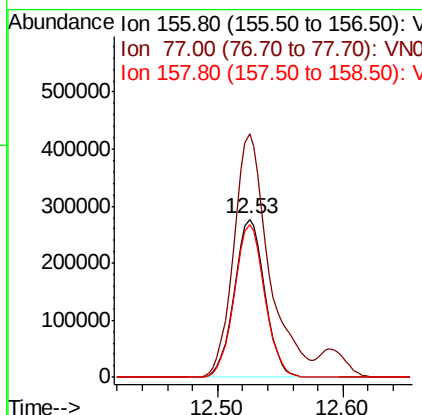
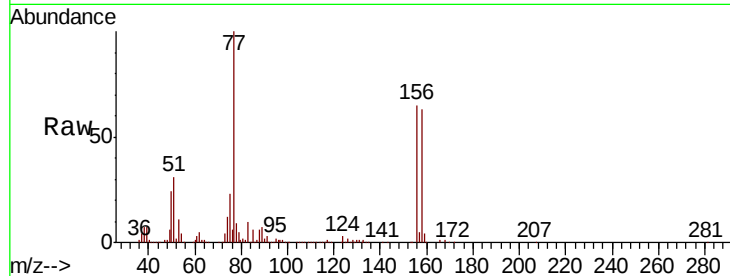
ClientSampled :

VSTDCCC050

Tot Ion:	156	Resp:	465347
Ion Ratio	Lower	Upper	
156	100		
77	178.4	89.0	267.1
158	96.8	48.5	145.6

Manual Integrations
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#78

n-propylbenzene

Concen: 52.06 ug/l

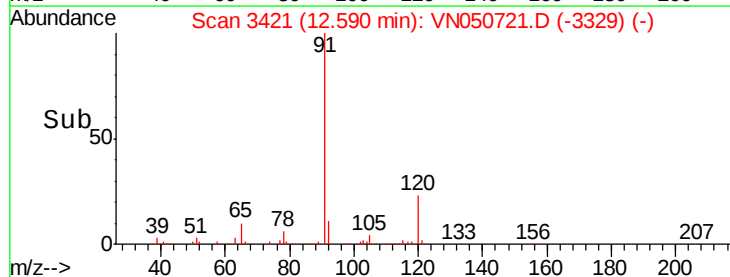
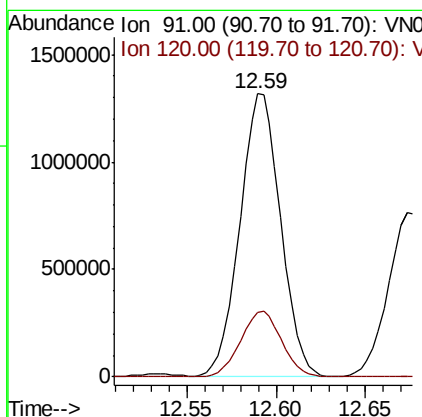
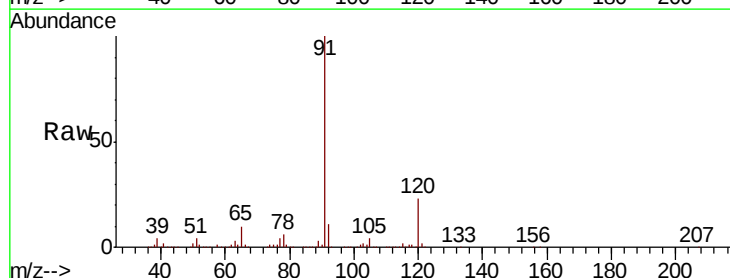
RT: 12.59 min Scan# 3421

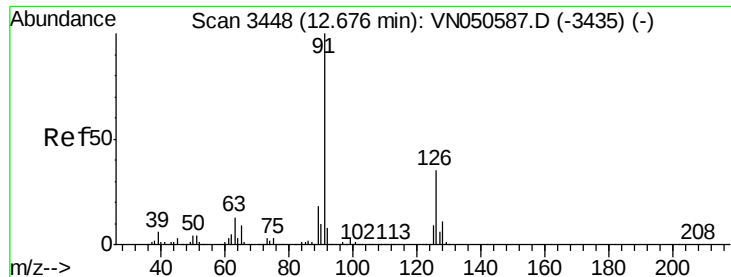
Delta R.T. -0.00 min

Lab File: VN050721.D

Acq: 17 Aug 2018 11:20

Tgt Ion:	91	Resp:	2096884
Ion Ratio	Lower	Upper	
91	100		
120	23.4	11.8	35.4





#79

2-Chlorotoluene

Concen: 49.47 ug/l

RT: 12.67 min Scan# 3447

Delta R.T. -0.00 min

Lab File: VN050721.D

Acq: 17 Aug 2018 11:20

Instrument :

MSVOA_N

ClientSampleId :

VSTDCCC050

Tot Ion: 91 Resp: 1242255

Ion Ratio Lower Upper

91 100

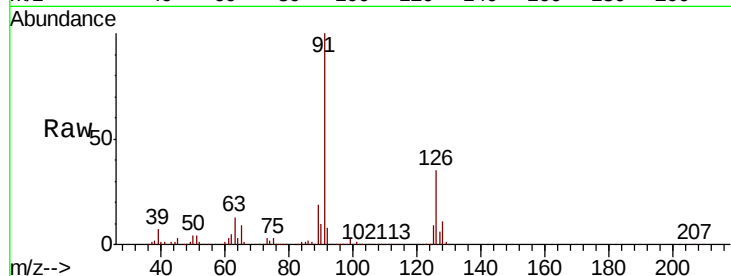
126 35.3 17.6 52.8

Manual Integrations

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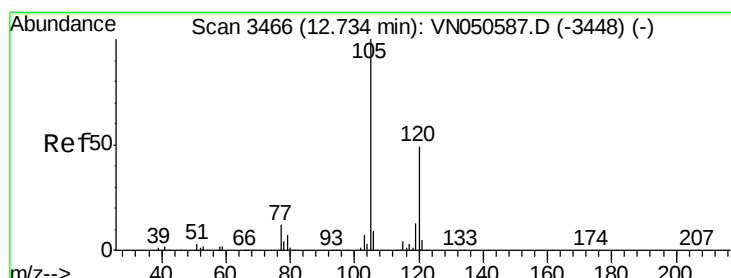
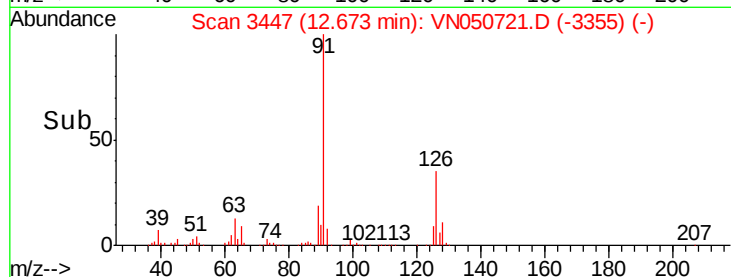
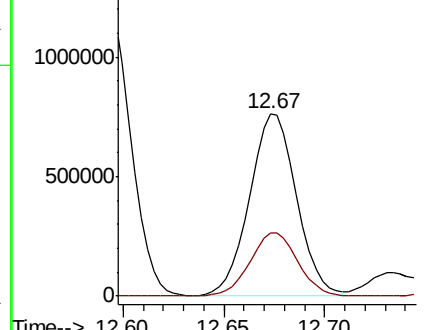
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Abundance Ion 91.00 (90.70 to 91.70): VN050587.D (-3435) (-)

Ion 125.90 (125.60 to 126.60): VN050587.D (-3435) (-)



#80

1,3,5-Trimethylbenzene

Concen: 52.30 ug/l

RT: 12.73 min Scan# 3465

Delta R.T. -0.00 min

Lab File: VN050721.D

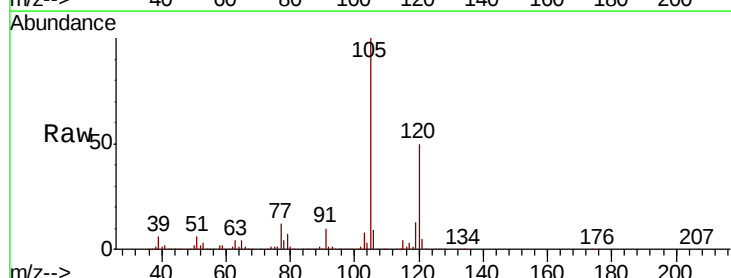
Acq: 17 Aug 2018 11:20

Tgt Ion: 105 Resp: 1512503

Ion Ratio Lower Upper

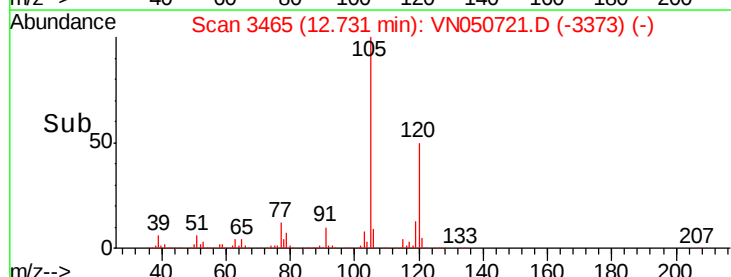
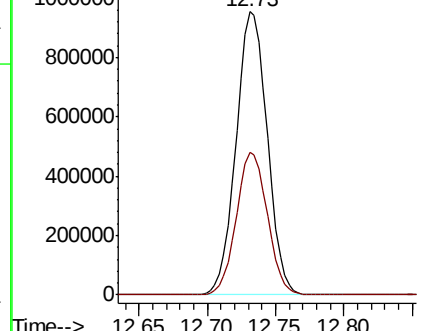
105 100

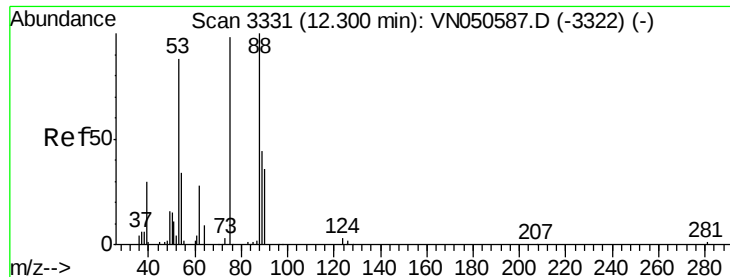
120 50.1 24.7 74.1



Abundance Ion 105.00 (104.70 to 105.70): VN050587.D (-3448) (-)

Ion 120.00 (119.70 to 120.70): VN050587.D (-3448) (-)





#81

trans-1,4-Dichloro-2-butene

Concen: 53.31 ug/l

RT: 12.30 min Scan# 3331

Delta R.T. 0.00 min

Lab File: VN050721.D

Acq: 17 Aug 2018 11:20

Instrument :

MSVOA_N

ClientSampleId :

VSTDCCC050

Tot Ion: 75 Resp: 110862

Ion Ratio Lower Upper

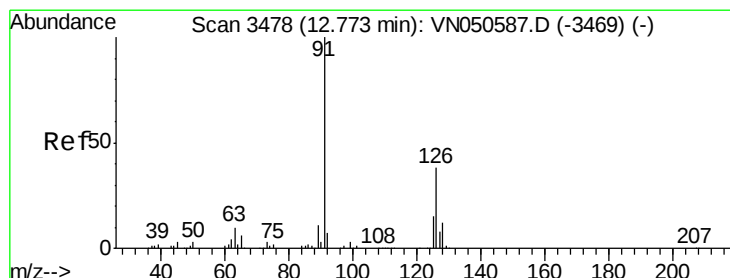
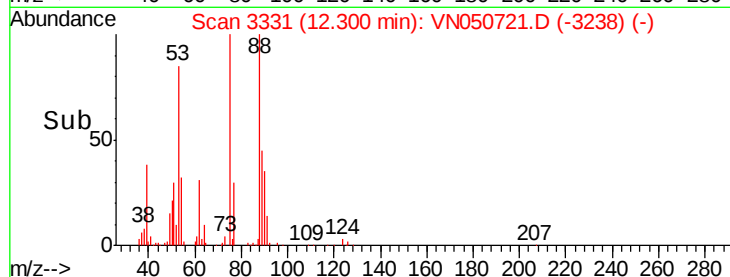
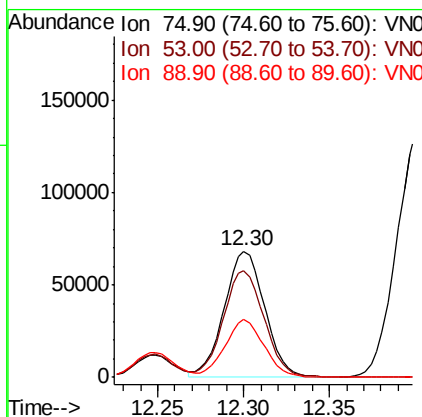
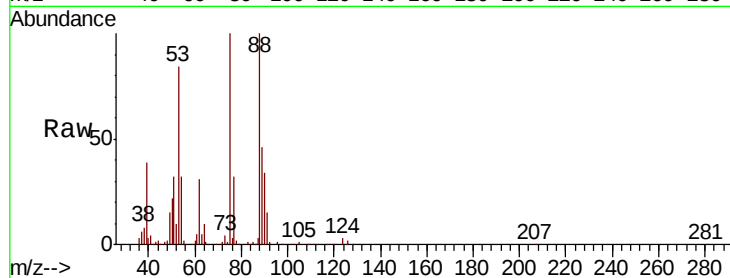
75 100

53 86.9 72.2 108.2

89 45.1 36.3 54.5

Manual Integrations
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#82

4-Chlorotoluene

Concen: 50.74 ug/l

RT: 12.77 min Scan# 3478

Delta R.T. 0.00 min

Lab File: VN050721.D

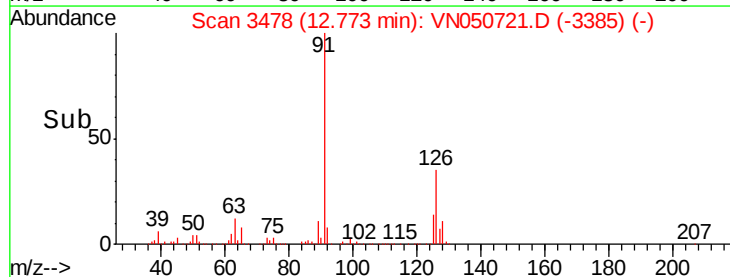
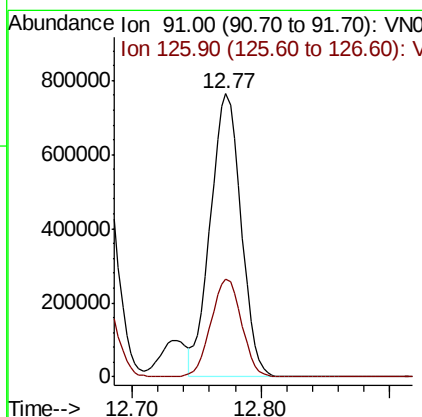
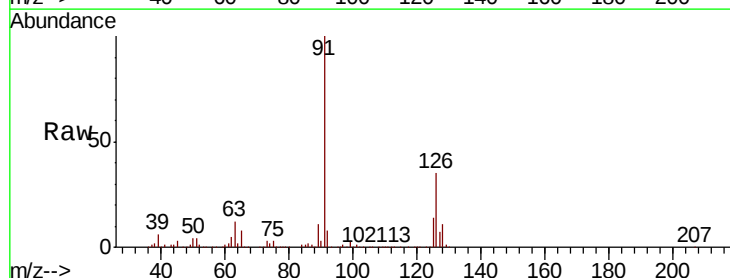
Acq: 17 Aug 2018 11:20

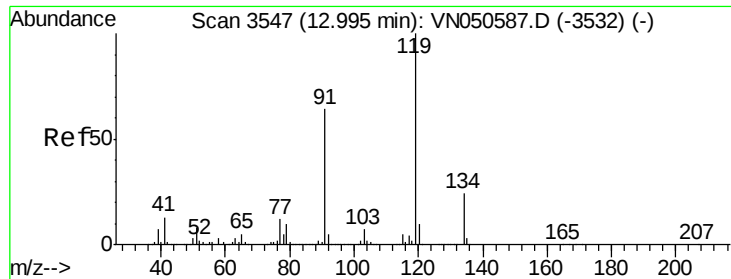
Tgt Ion: 91 Resp: 1259094

Ion Ratio Lower Upper

91 100

126 34.5 17.3 52.0





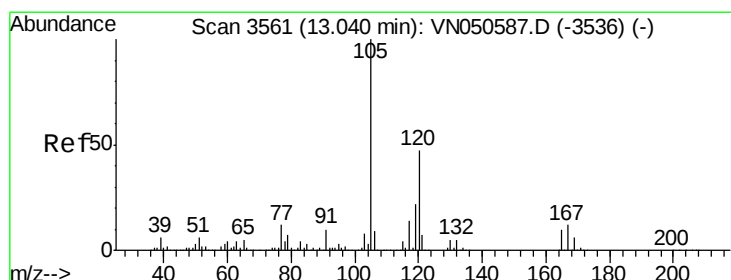
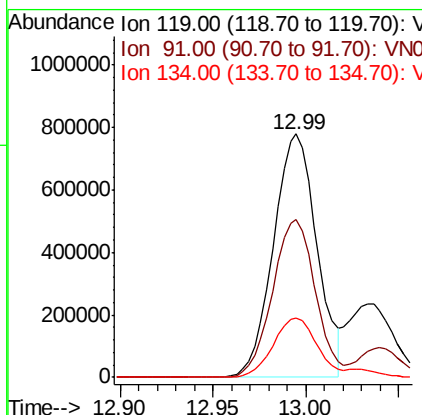
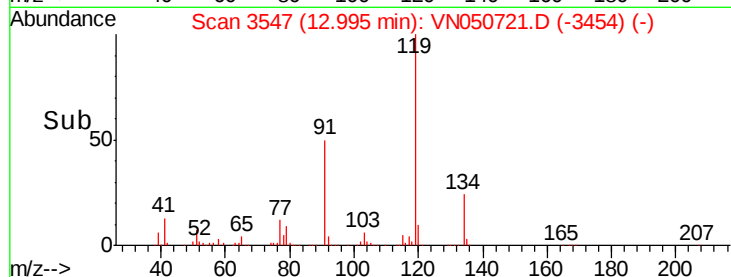
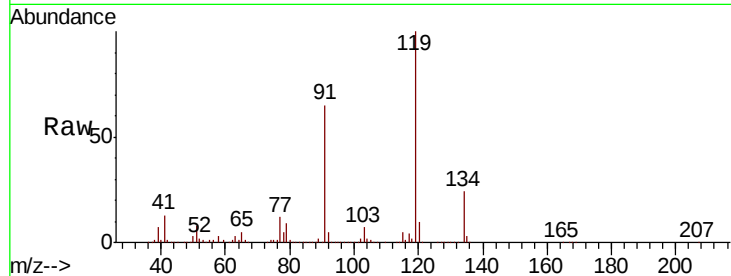
#83
tert-Butylbenzene
Concen: 50.65 ug/l
RT: 12.99 min Scan# 3547
Delta R.T. 0.00 min
Lab File: VN050721.D
Acq: 17 Aug 2018 11:20

Instrument :
MSVOA_N
ClientSampleId :
VSTDCCC050

Tot Ion	Ratio	Lower	Upper
119	100		
91	63.9	32.2	96.6
134	25.0	13.4	40.2

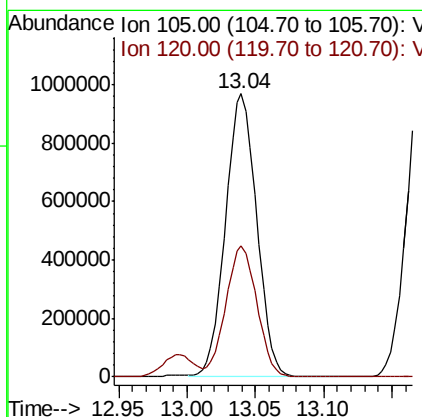
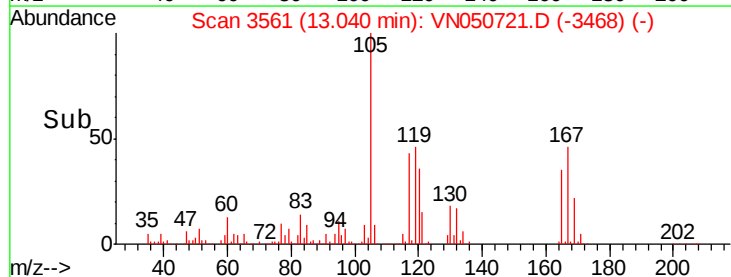
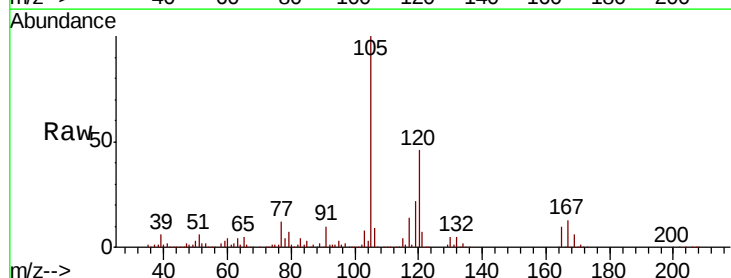
Manual Integrations
APPROVED

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#84
1,2,4-Trimethylbenzene
Concen: 52.97 ug/l
RT: 13.04 min Scan# 3561
Delta R.T. 0.00 min
Lab File: VN050721.D
Acq: 17 Aug 2018 11:20

Tgt Ion	Ratio	Lower	Upper
105	100		
120	46.4	23.2	69.5





#85

sec-Butylbenzene

Concen: 52.68 ug/l

RT: 13.17 min Scan# 3602

Delta R.T. 0.00 min

Lab File: VN050721.D

Acq: 17 Aug 2018 11:20

Instrument :

MSVOA_N

ClientSampleId :

VSTDCCC050

Tot Ion:105 Resp: 1728245

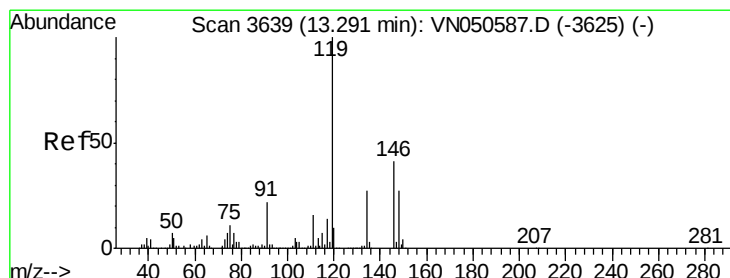
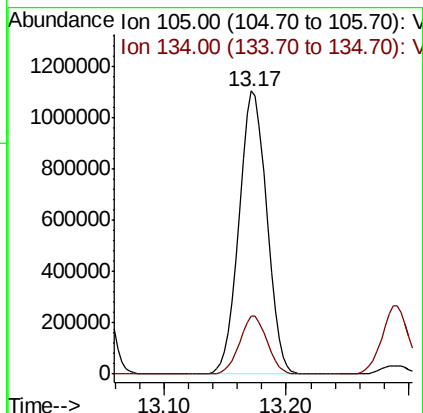
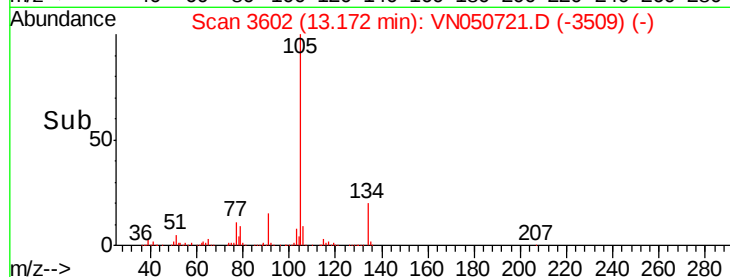
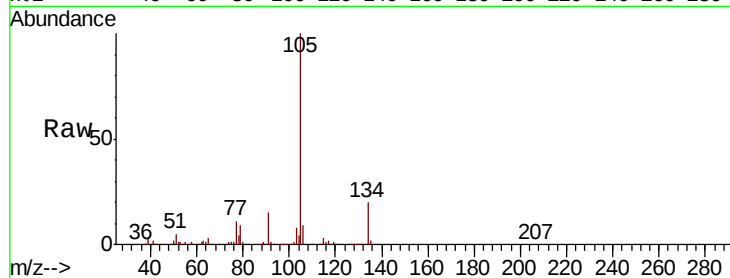
Ion Ratio Lower Upper

105 100

134 20.3 10.1 30.3

Manual Integrations
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8/20/2018 10:52:52 AM



#86

p-Isopropyltoluene

Concen: 54.84 ug/l

RT: 13.29 min Scan# 3638

Delta R.T. -0.00 min

Lab File: VN050721.D

Acq: 17 Aug 2018 11:20

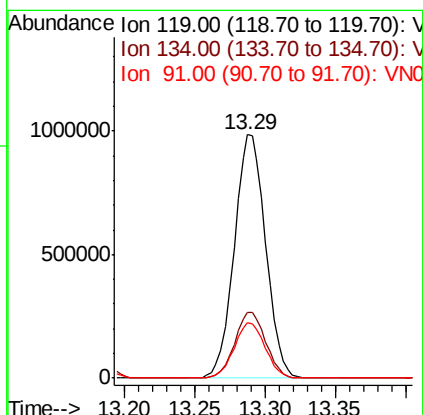
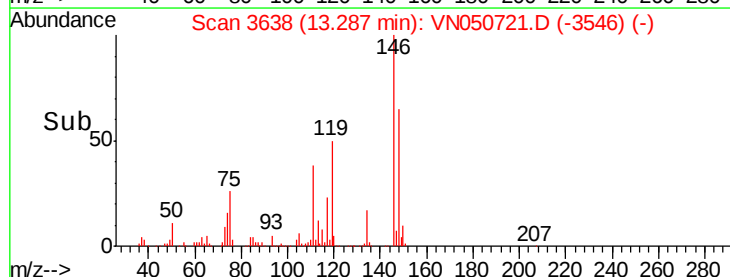
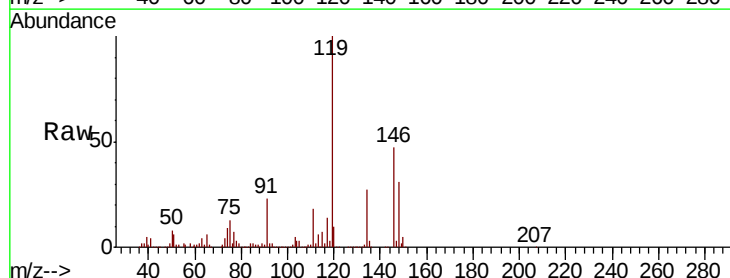
Tgt Ion:119 Resp: 1524276

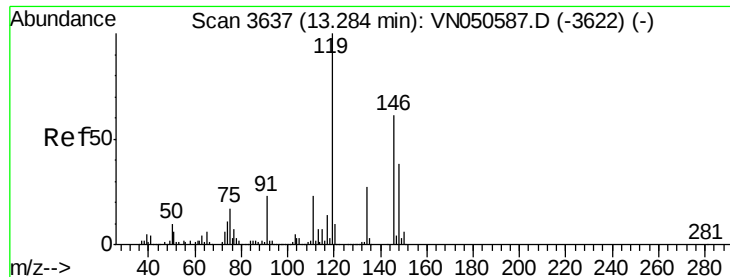
Ion Ratio Lower Upper

119 100

134 26.7 13.5 40.4

91 22.4 11.2 33.6





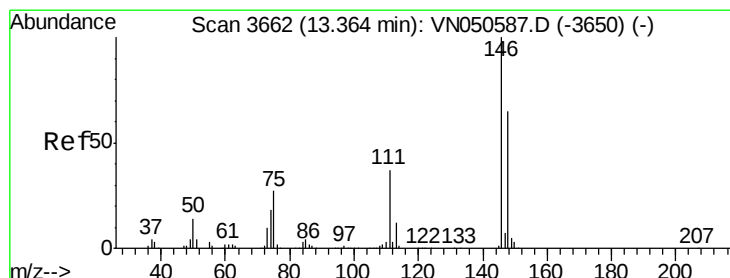
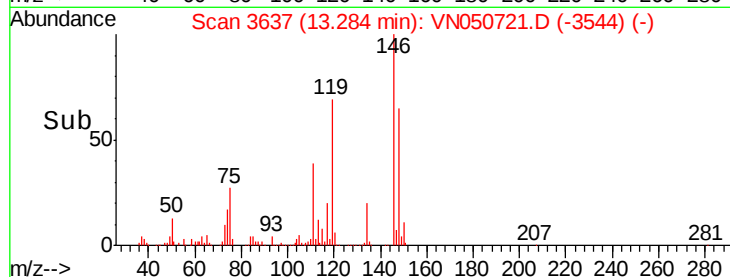
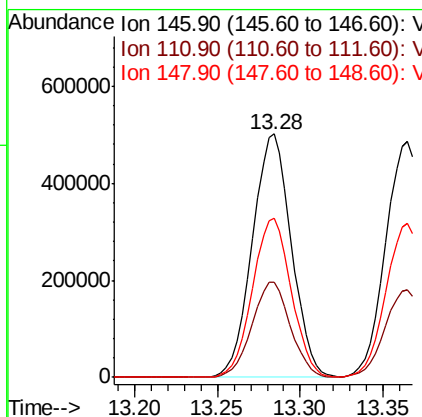
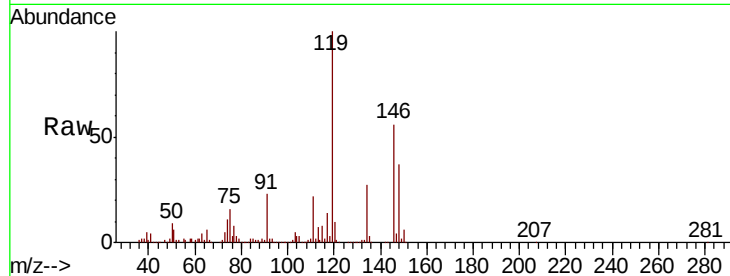
#87
 1,3-Dichlorobenzene
 Concen: 49.42 ug/l
 RT: 13.28 min Scan# 3637
 Delta R.T. 0.00 min
 Lab File: VN050721.D
 Acq: 17 Aug 2018 11:20

Instrument :
 MSVOA_N
 ClientSampleId :
 VSTDCCC050

Tot Ion	Ratio	Lower	Upper
146	100		
111	38.5	19.2	57.6
148	64.8	31.9	95.7

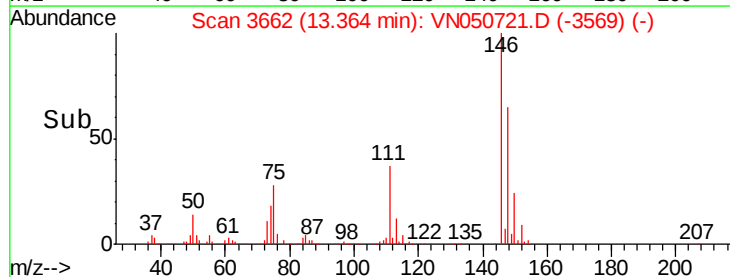
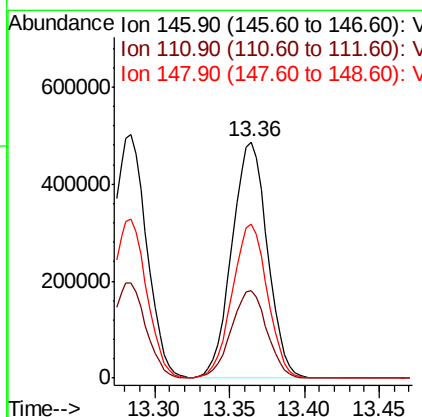
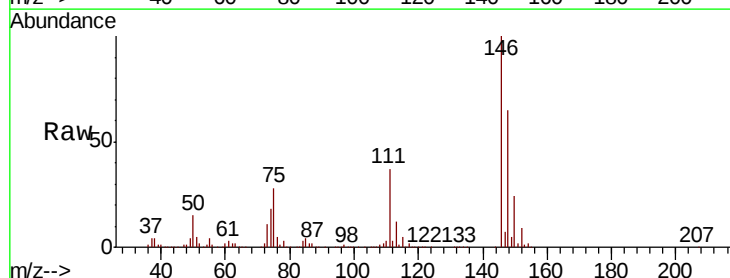
Manual Integrations
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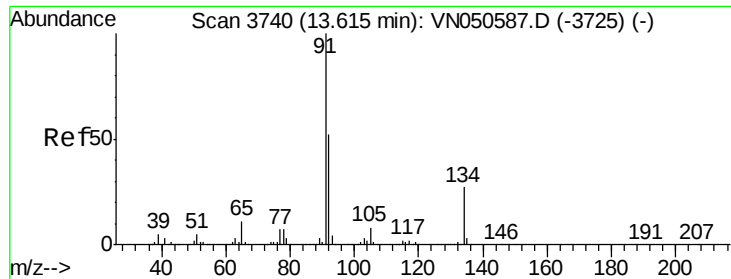
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#88
 1,4-Dichlorobenzene
 Concen: 48.57 ug/l
 RT: 13.36 min Scan# 3662
 Delta R.T. 0.00 min
 Lab File: VN050721.D
 Acq: 17 Aug 2018 11:20

Tgt Ion	Ratio	Lower	Upper
146	100		
111	37.3	18.8	56.4
148	64.6	32.3	96.8





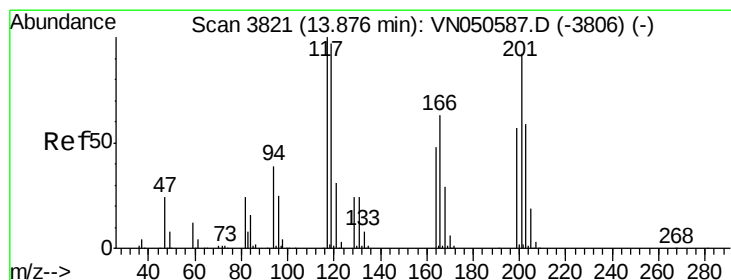
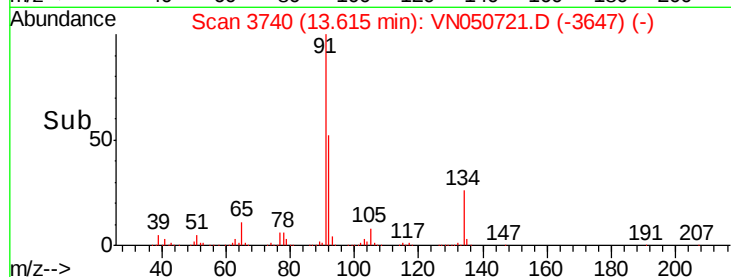
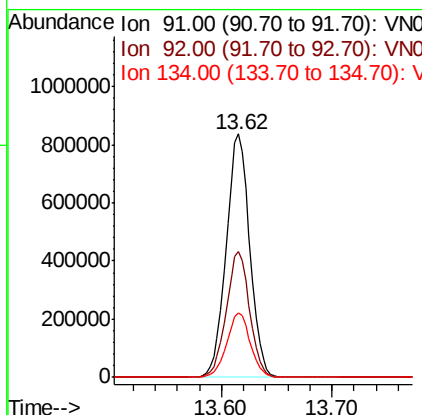
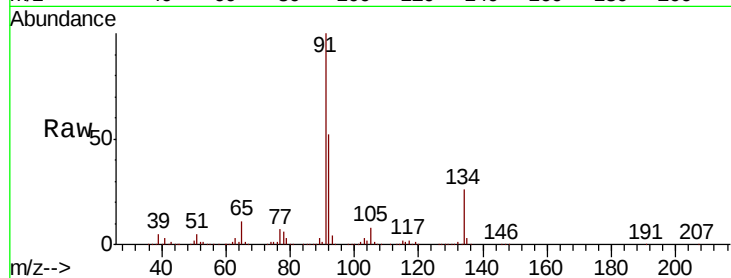
#89
n-Butylbenzene
Concen: 55.15 ug/l
RT: 13.62 min Scan# 3740
Delta R.T. 0.00 min
Lab File: VN050721.D
Acq: 17 Aug 2018 11:20

Instrument :
MSVOA_N
ClientSampleId :
VSTDCCC050

Tot Ion	Ratio	Lower	Upper
91	100		
92	51.3	26.3	78.8
134	26.4	13.3	39.9

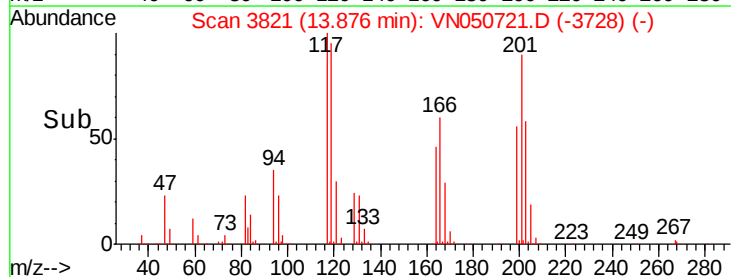
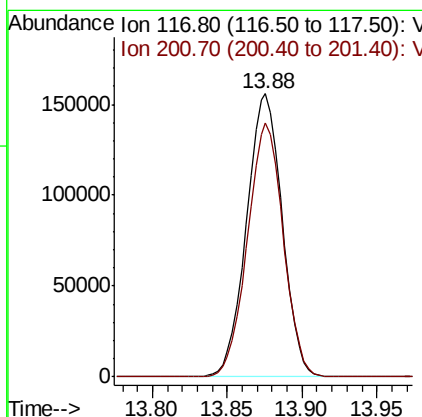
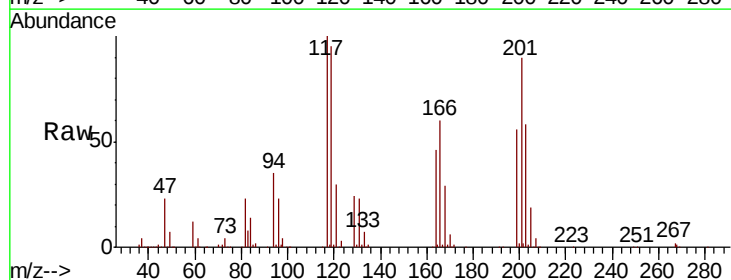
Manual Integrations
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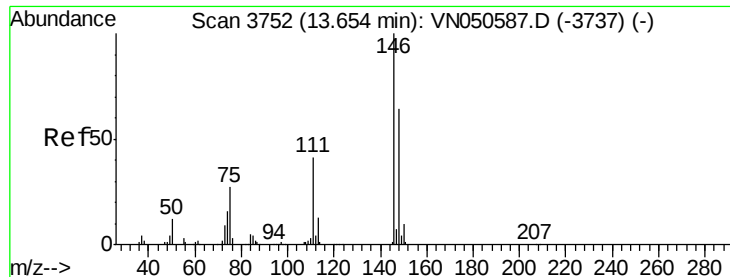
MMDadoda
8/20/2018 10:52:52 AM



#90
Hexachloroethane
Concen: 46.25 ug/l
RT: 13.88 min Scan# 3821
Delta R.T. 0.00 min
Lab File: VN050721.D
Acq: 17 Aug 2018 11:20

Tgt Ion	Ratio	Lower	Upper
117	100		
201	89.8	45.5	136.5





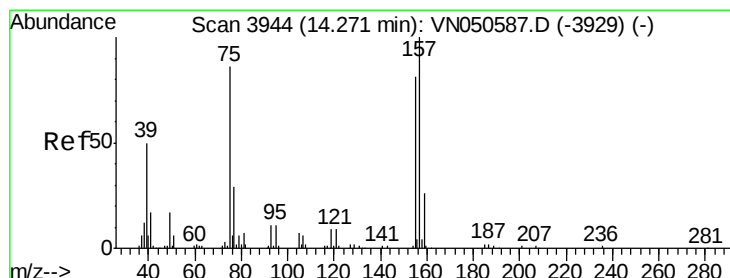
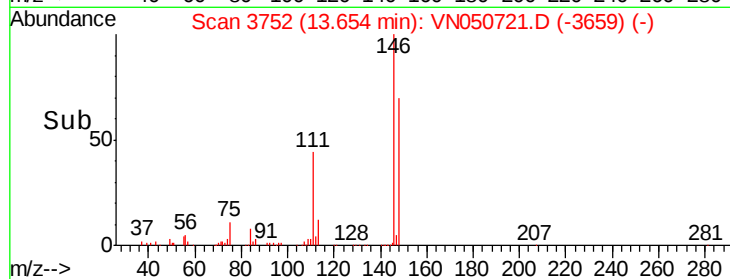
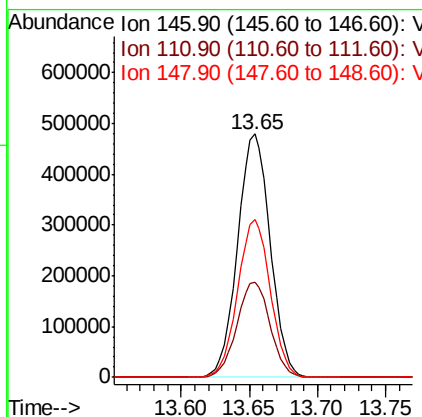
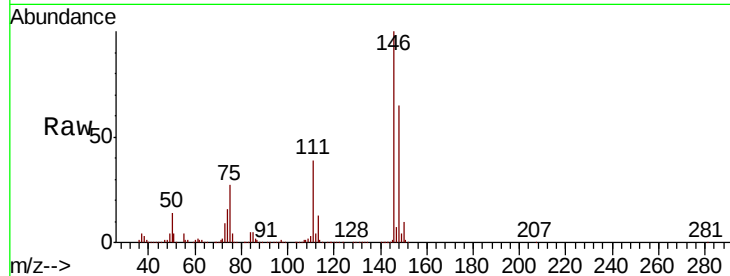
#91
 1,2-Dichlorobenzene
 Concen: 48.86 ug/l
 RT: 13.65 min Scan# 3752
 Delta R.T. 0.00 min
 Lab File: VN050721.D
 Acq: 17 Aug 2018 11:20

Instrument :
 MSVOA_N
 ClientSampleId :
 VSTDCCC050

Tot Ion	Ratio	Lower	Upper
146	100		
111	40.0	19.8	59.4
148	64.8	32.3	96.8

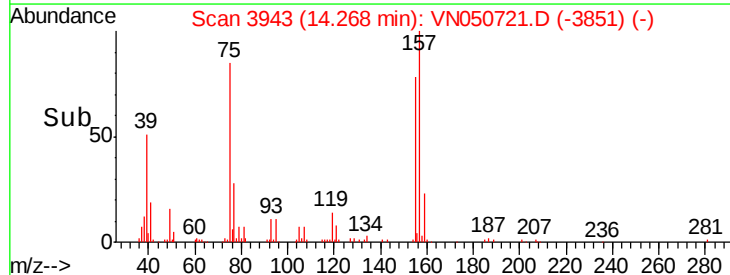
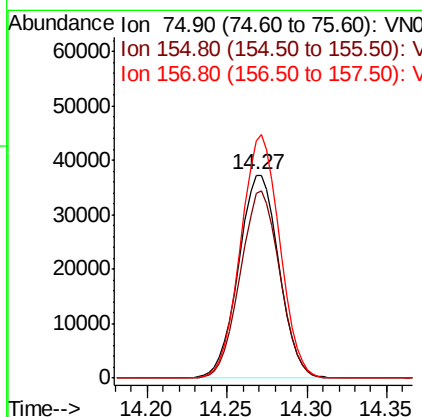
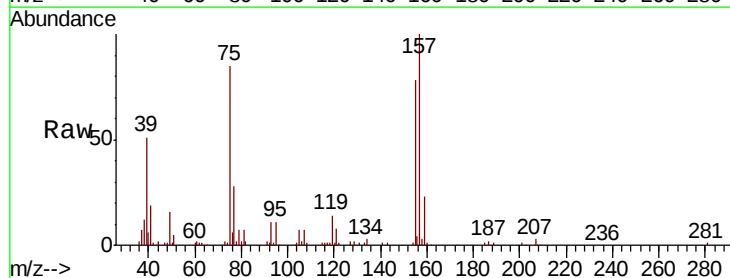
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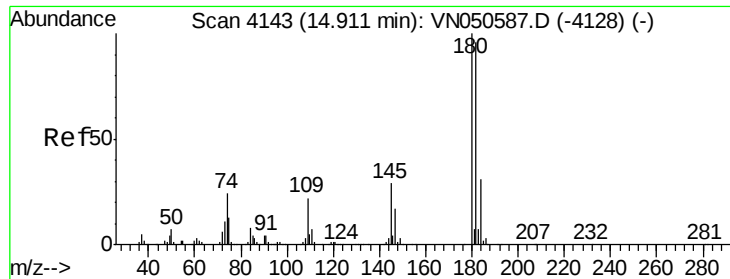
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#92
 1,2-Dibromo-3-Chloropropane
 Concen: 49.90 ug/l
 RT: 14.27 min Scan# 3943
 Delta R.T. -0.00 min
 Lab File: VN050721.D
 Acq: 17 Aug 2018 11:20

Tgt Ion	Ratio	Lower	Upper
75	100		
155	90.4	46.6	139.8
157	115.9	58.1	174.2





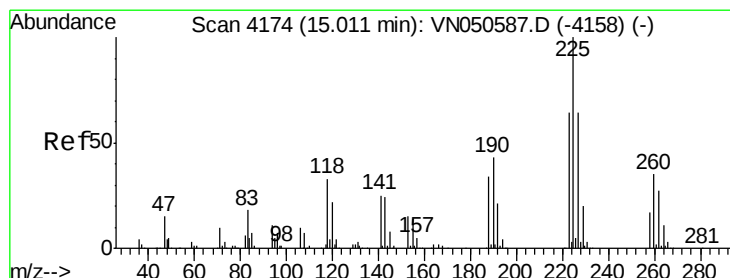
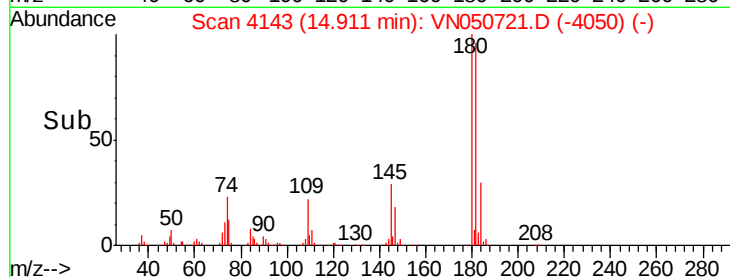
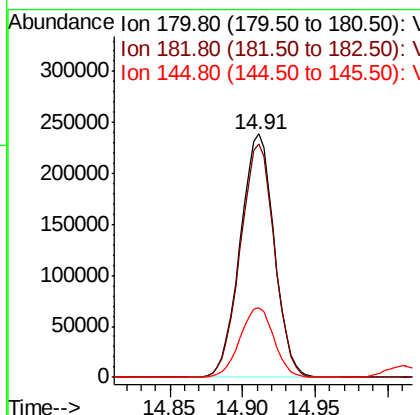
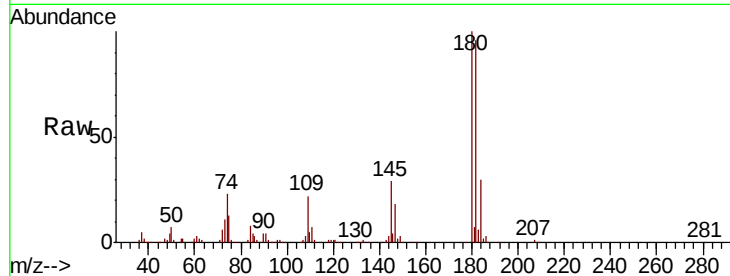
#93
 1,2,4-Trichlorobenzene
 Concen: 46.82 ug/l
 RT: 14.91 min Scan# 4143
 Delta R.T. 0.00 min
 Lab File: VN050721.D
 Acq: 17 Aug 2018 11:20

Instrument :
 MSVOA_N
 ClientSampleId :
 VSTDCCC050

Tot Ion	Ratio	Resp	Lower	Upper
180	100	389859		
182	96.0		47.9	143.7
145	28.6		14.4	43.4

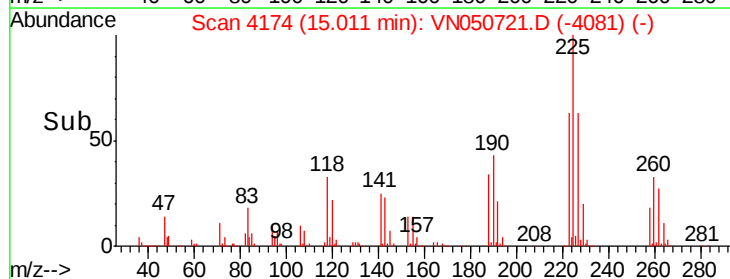
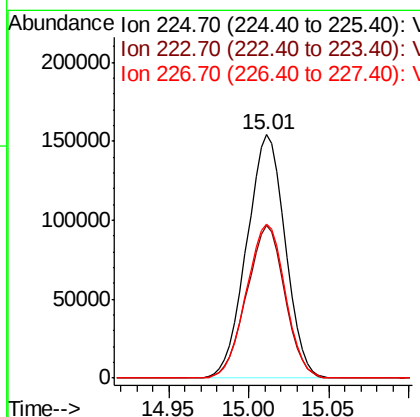
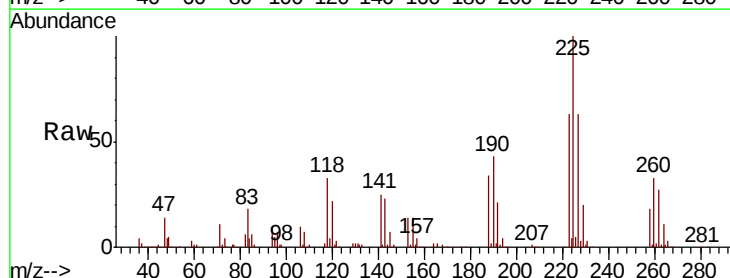
Manual Integrations
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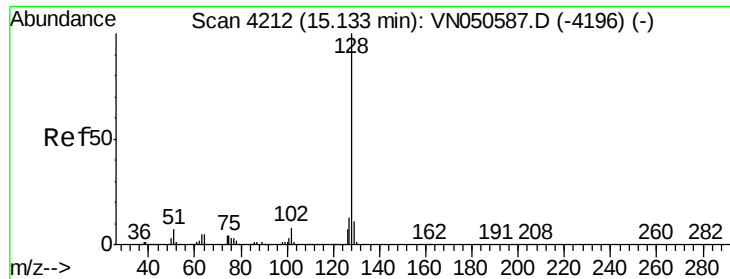
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#94
 Hexachlorobutadiene
 Concen: 50.99 ug/l
 RT: 15.01 min Scan# 4174
 Delta R.T. 0.00 min
 Lab File: VN050721.D
 Acq: 17 Aug 2018 11:20

Tgt Ion	Ratio	Resp	Lower	Upper
225	100	254635		
223	62.4		32.1	96.3
227	64.1		32.0	96.2





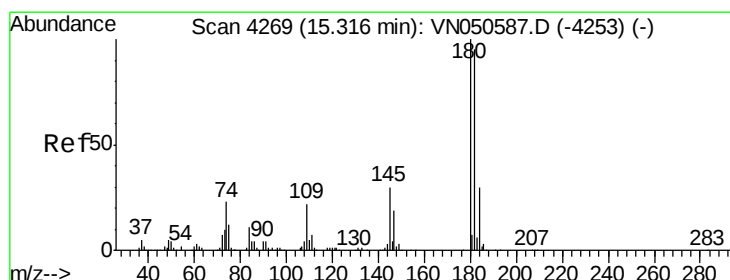
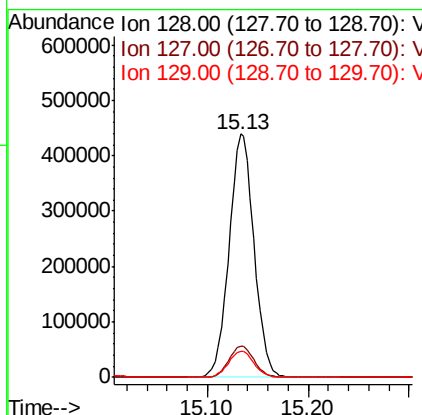
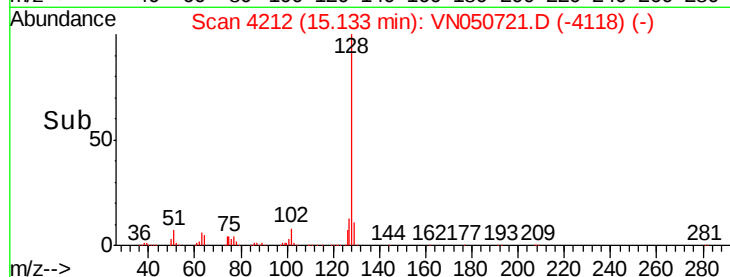
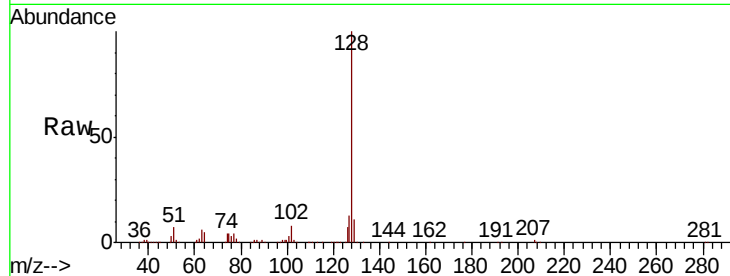
#95
Naphthalene
Concen: 43.09 ug/l
RT: 15.13 min Scan# 4212
Delta R.T. 0.00 min
Lab File: VN050721.D
Acq: 17 Aug 2018 11:20

Instrument :
MSVOA_N
ClientSampleId :
VSTDCCC050

Tot Ion	Ratio	Resp	Lower	Upper
128	100	755886		
127	13.0		10.3	15.5
129	11.0		8.5	12.7

Manual Integrations
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#96
1,2,3-Trichlorobenzene
Concen: 47.19 ug/l
RT: 15.32 min Scan# 4269
Delta R.T. 0.00 min
Lab File: VN050721.D
Acq: 17 Aug 2018 11:20

Tgt Ion	Ratio	Resp	Lower	Upper
180	100	367522		
182	95.8		47.3	141.8
145	30.0		14.6	44.0

