

Data Path : Z:\VOASRV\HPCHEM1\MSVOA_N\DATA\VN120418\
 Data File : VN052663.D
 Acq On : 4 Dec 2018 19:08
 Operator : MD\SY
 Sample : VSTDCCC050
 Misc : 5.00mL/MSVOA_N/WATER
 ALS Vial : 20 Sample Multiplier: 28

Instrument :
 MSVOA_N
 ClientSampleId :
 VSTDCCC050EC

Manual Integrations
 APPROVED

MMDadoda
 12/5/2018 9:13:15 AM

Quant Time: Dec 05 04:25:50 2018
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_N\METHODS\82N112718W.M
 Quant Title : SW846 8260
 QLast Update : Mon Dec 03 03:24:02 2018
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	7.67	168	985352	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	8.59	114	1531287	50.00	ug/l	0.00
63) Chlorobenzene-d5	11.41	117	1372375	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.35	152	643870	50.00	ug/l	0.00

System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	8.03	65	533299	49.71	ug/l	0.00
Spiked Amount	50.000		Recovery	=	99.42%	
35) Dibromofluoromethane	7.59	113	476154	50.44	ug/l	0.00
Spiked Amount	50.000		Recovery	=	100.88%	
50) Toluene-d8	10.09	98	1809779	49.25	ug/l	0.00
Spiked Amount	50.000		Recovery	=	98.50%	
62) 4-Bromofluorobenzene	12.40	95	630797	51.08	ug/l	0.00
Spiked Amount	50.000		Recovery	=	102.16%	

Target Compounds						Qvalue
2) Dichlorodifluoromethane	1.85	85	385330	41.765	ug/l	98
3) Chloromethane	2.06	50	528883	43.427	ug/l	100
4) Vinyl Chloride	2.19	62	545593	43.611	ug/l	99
5) Bromomethane	2.57	94	324771	41.606	ug/l	100
6) Chloroethane	2.71	64	337361	44.519	ug/l	99
7) Trichlorofluoromethane	3.02	101	708444	46.101	ug/l	100
8) Diethyl Ether	3.41	74	277265	48.858	ug/l	98
9) 1,1,2-Trichlorotrifluoroet	3.76	101	436948	45.568	ug/l	99
10) Methyl Iodide	3.96	142	685896	53.705	ug/l	100
11) Tert butyl alcohol	4.78	59	145493	270.882	ug/l	100
12) 1,1-Dichloroethene	3.74	96	428195	46.391	ug/l	99
13) Acrolein	3.61	56	174364	186.786	ug/l	99
14) Allyl chloride	4.33	41	746137	46.903	ug/l	98
15) Acrylonitrile	4.99	53	860572	253.112	ug/l	99
16) Acetone	3.82	43	609995	215.561	ug/l	100
17) Carbon Disulfide	4.06	76	1180390	40.637	ug/l	100
18) Methyl Acetate	4.33	43	440484	54.266	ug/l	100
19) Methyl tert-butyl Ether	5.05	73	1252870	51.017	ug/l	100
20) Methylene Chloride	4.55	84	508668	45.934	ug/l	98
21) trans-1,2-Dichloroethene	5.05	96	462407	46.907	ug/l	97
22) Diisopropyl ether	5.95	45	1612139	48.245	ug/l	100
23) Vinyl Acetate	5.90	43	5224005	250.996	ug/l	99
24) 1,1-Dichloroethane	5.85	63	911922	47.797	ug/l	99
25) 2-Butanone	6.83	43	980794	244.529	ug/l	97
26) 2,2-Dichloropropane	6.83	77	631649	47.831	ug/l	99
27) cis-1,2-Dichloroethene	6.83	96	553148	48.170	ug/l	98
28) Bromochloromethane	7.20	49	415923	47.728	ug/l	95
29) Tetrahydrofuran	7.21	42	647986	250.474	ug/l	98
30) Chloroform	7.37	83	897501	47.149	ug/l	98
31) Cyclohexane	7.65	56	794529	42.974	ug/l	96
32) 1,1,1-Trichloroethane	7.57	97	742297	49.218	ug/l	98
36) 1,1-Dichloropropene	7.79	75	675596	46.721	ug/l	99
37) Ethyl Acetate	6.93	43	438297	49.665	ug/l	100
38) Carbon Tetrachloride	7.78	117	631917	48.273	ug/l	99

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Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
39) Methylcyclohexane	9.08	83	769563	43.785	ug/l	99
40) Benzene	8.04	78	2058787	47.774	ug/l	100
41) Methacrylonitrile	7.17	41	255273	52.909	ug/l	95
42) 1,2-Dichloroethane	8.12	62	644514	49.394	ug/l	100
43) Isopropyl Acetate	8.17	43	817004	54.705	ug/l	97
44) Trichloroethene	8.84	130	536682	48.618	ug/l	98
45) 1,2-Dichloropropane	9.12	63	555652	48.498	ug/l	98
46) Dibromomethane	9.21	93	319573	50.386	ug/l	98
47) Bromodichloromethane	9.40	83	684362	49.628	ug/l	96
48) Methyl methacrylate	9.20	41	401297	51.532	ug/l	99
49) 1,4-Dioxane	9.20	88	89352	1105.576	ug/l	98
51) 4-Methyl-2-Pentanone	9.99	43	2233237	266.515	ug/l	100
52) Toluene	10.16	92	1269105	49.566	ug/l	100
53) t-1,3-Dichloropropene	10.38	75	690699	52.065	ug/l	100
54) cis-1,3-Dichloropropene	9.84	75	805641	50.676	ug/l	99
55) 1,1,2-Trichloroethane	10.56	97	465391	51.673	ug/l	99
56) Ethyl methacrylate	10.43	69	614913	49.213	ug/l	98
57) 1,3-Dichloropropane	10.71	76	793001	49.865	ug/l	99
58) 2-Chloroethyl Vinyl ether	9.70	63	1693774	259.173	ug/l	98
59) 2-Hexanone	10.75	43	1483805	263.842	ug/l	99
60) Dibromochloromethane	10.90	129	514074	52.553	ug/l	99
61) 1,2-Dibromoethane	11.01	107	461583	51.600	ug/l	100
64) Tetrachloroethene	10.63	164	511279	48.051	ug/l	99
65) Chlorobenzene	11.43	112	1393747	49.252	ug/l	99
66) 1,1,1,2-Tetrachloroethane	11.51	131	500754	50.893	ug/l	100
67) Ethyl Benzene	11.51	91	2432391	49.084	ug/l	100
68) m/p-Xylenes	11.62	106	1832119	99.312	ug/l	100
69) o-Xylene	11.95	106	899757	50.224	ug/l	99
70) Styrene	11.96	104	1483780	52.001	ug/l	99
71) Bromoform	12.13	173	351501	53.953	ug/l #	100
73) Isopropylbenzene	12.25	105	2390770	47.327	ug/l	99
74) N-amyl acetate	12.07	43	679683	53.257	ug/l	99
75) 1,1,2,2-Tetrachloroethane	12.51	83	566863	49.330	ug/l	100
76) 1,2,3-Trichloropropane	12.55	75	480212m	48.365	ug/l	
77) Bromobenzene	12.53	156	608193	48.710	ug/l	98
78) n-propylbenzene	12.59	91	2755303	48.012	ug/l	100
79) 2-Chlorotoluene	12.68	91	1610973	47.139	ug/l	99
80) 1,3,5-Trimethylbenzene	12.73	105	1948411	48.362	ug/l	100
81) trans-1,4-Dichloro-2-buten	12.30	75	153580	51.656	ug/l	99
82) 4-Chlorotoluene	12.77	91	1631143	47.358	ug/l	99
83) tert-Butylbenzene	12.99	119	1730117	48.170	ug/l	99
84) 1,2,4-Trimethylbenzene	13.04	105	1965595	48.683	ug/l	100
85) sec-Butylbenzene	13.17	105	2331657	47.663	ug/l	99
86) p-Isopropyltoluene	13.29	119	2015337	48.368	ug/l	99
87) 1,3-Dichlorobenzene	13.28	146	1051169	48.129	ug/l	99
88) 1,4-Dichlorobenzene	13.36	146	1037172	48.211	ug/l	99
89) n-Butylbenzene	13.62	91	1685671	48.645	ug/l	100
90) Hexachloroethane	13.88	117	338016	47.911	ug/l	96
91) 1,2-Dichlorobenzene	13.65	146	1031892	49.452	ug/l	100
92) 1,2-Dibromo-3-Chloropropan	14.27	75	85784	52.196	ug/l	97

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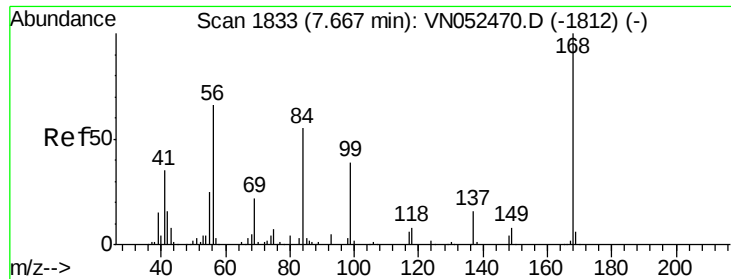
Manual Integrations
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Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
93) 1,2,4-Trichlorobenzene	14.91	180	533270	46.841	ug/l	99
94) Hexachlorobutadiene	15.01	225	302788	45.105	ug/l	100
95) Naphthalene	15.13	128	1131425	46.901	ug/l	100
96) 1,2,3-Trichlorobenzene	15.32	180	493369	47.110	ug/l	100

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



#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 7.67 min Scan# 1833

Delta R.T. -0.00 min

Lab File: VN052663.D

Acq: 4 Dec 2018 19:08

Instrument :

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ClientSampleId :

VSTDCCC050EC

Tgt Ion: 168 Resp: 985352

Ion Ratio Lower Upper

168 100

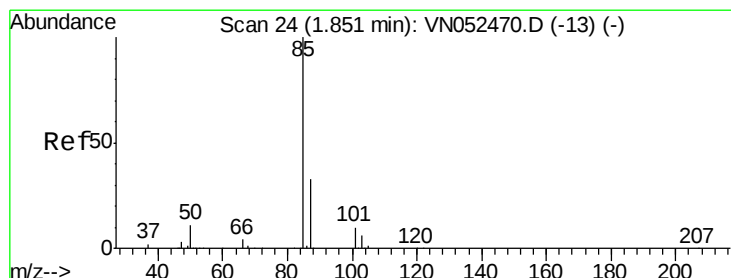
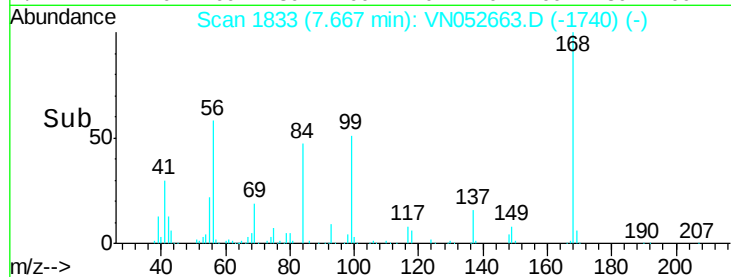
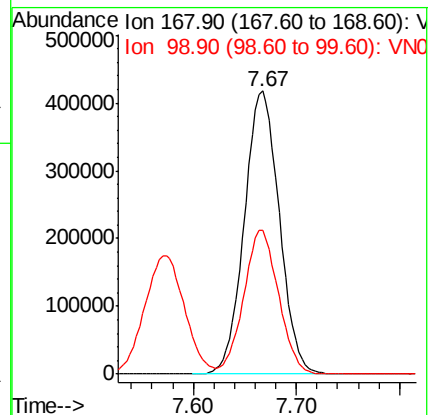
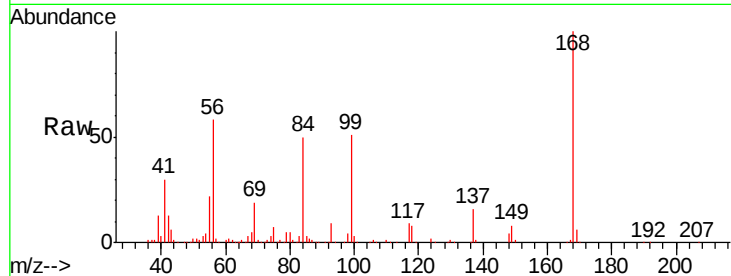
99 50.7 41.7 62.5

Manual Integrations

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12/5/2018 9:13:15 AM



#2

Dichlorodifluoromethane

Concen: 41.765 ug/l

RT: 1.85 min Scan# 24

Delta R.T. -0.00 min

Lab File: VN052663.D

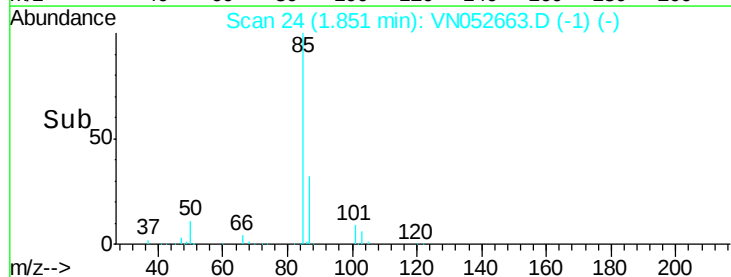
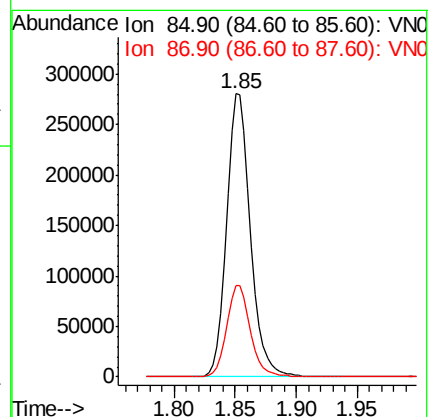
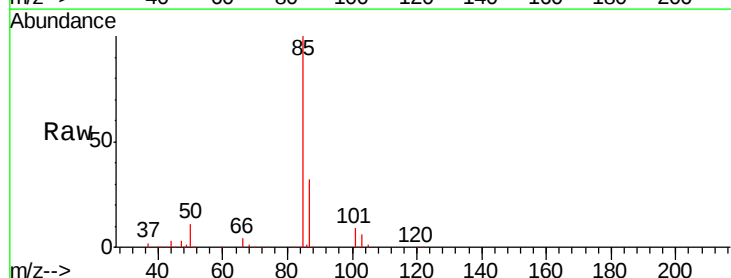
Acq: 4 Dec 2018 19:08

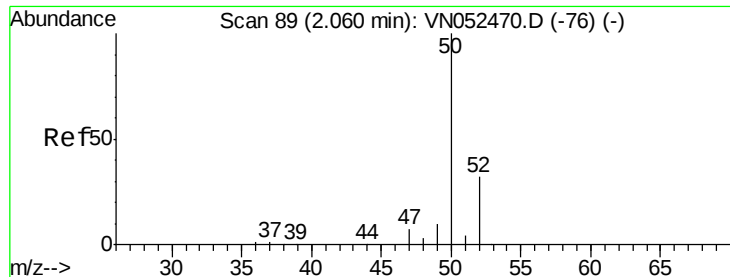
Tgt Ion: 85 Resp: 385330

Ion Ratio Lower Upper

85 100

87 32.2 16.7 50.1





#3

Chloromethane

Concen: 43.427 ug/l

RT: 2.06 min Scan# 90

Delta R.T. 0.00 min

Lab File: VN052663.D

Acq: 4 Dec 2018 19:08

Instrument :

MSVOA_N

ClientSampleId :

VSTDCCC050EC

Tgt Ion: 50 Resp: 528883

Ion Ratio Lower Upper

50 100

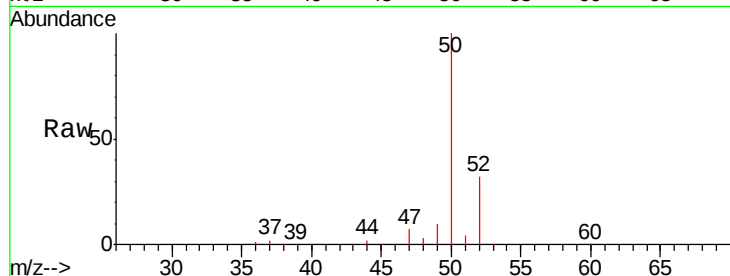
52 32.2 25.9 38.9

Manual Integrations

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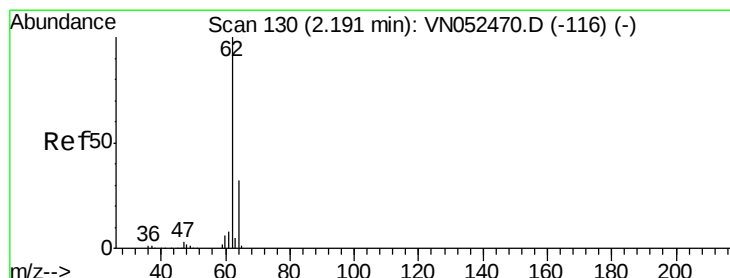
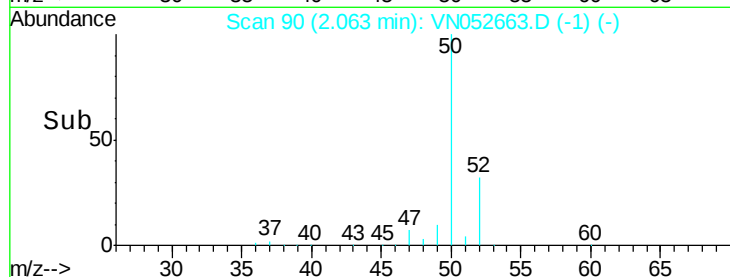
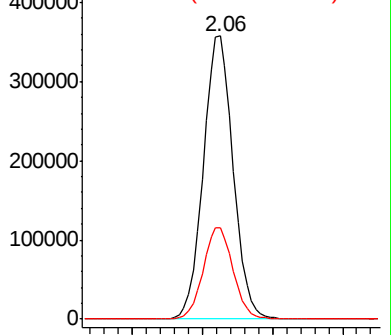
MMDadoda

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Abundance Ion 49.90 (49.60 to 50.60): VN0

Ion 51.90 (51.60 to 52.60): VN0



#4

Vinyl Chloride

Concen: 43.611 ug/l

RT: 2.19 min Scan# 130

Delta R.T. -0.00 min

Lab File: VN052663.D

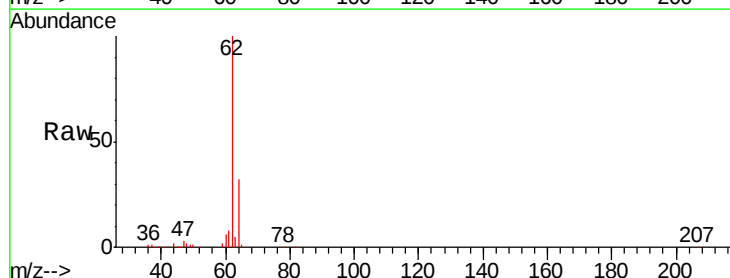
Acq: 4 Dec 2018 19:08

Tgt Ion: 62 Resp: 545593

Ion Ratio Lower Upper

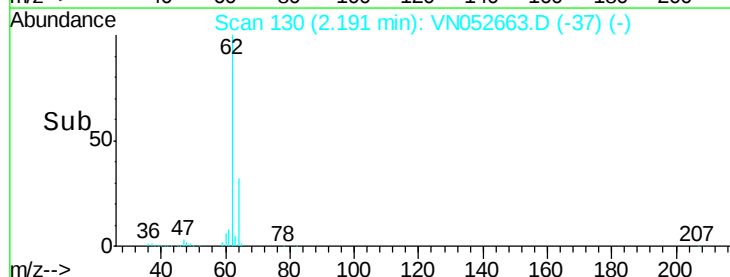
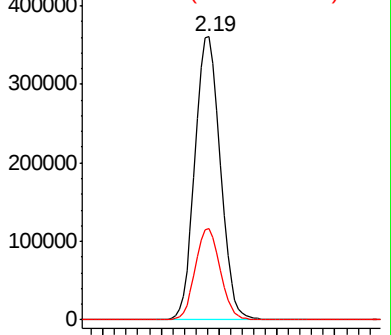
62 100

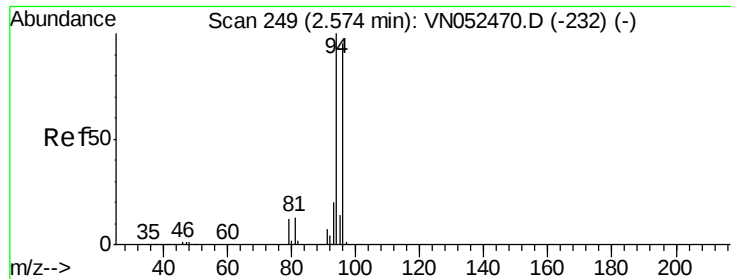
64 32.2 25.4 38.2



Abundance Ion 61.90 (61.60 to 62.60): VN0

Ion 63.90 (63.60 to 64.60): VN0





#5

Bromomethane

Concen: 41.606 ug/l

RT: 2.57 min Scan# 248

Delta R.T. -0.00 min

Lab File: VN052663.D

Acq: 4 Dec 2018 19:08

Instrument :

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VSTDCCC050EC

Tgt Ion: 94 Resp: 324771

Ion Ratio Lower Upper

94 100

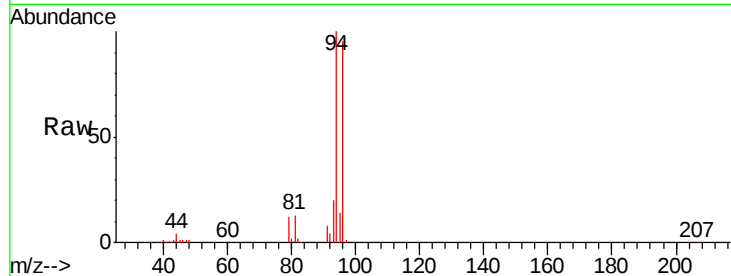
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Manual Integrations

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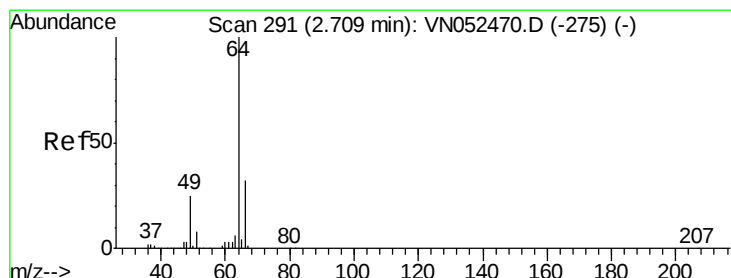
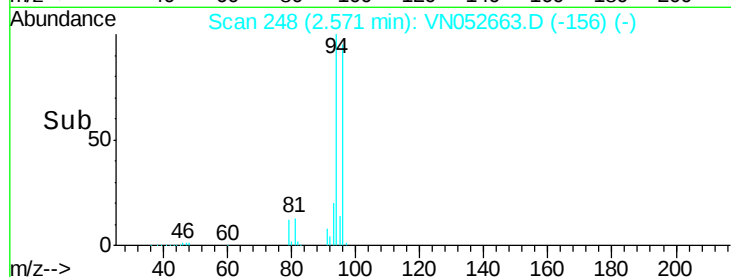
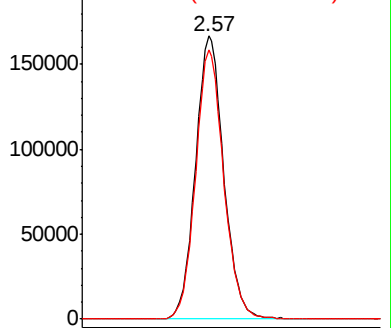
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Abundance Ion 93.90 (93.60 to 94.60): VN0

Ion 95.90 (95.60 to 96.60): VN0



#6

Chloroethane

Concen: 44.519 ug/l

RT: 2.71 min Scan# 291

Delta R.T. -0.00 min

Lab File: VN052663.D

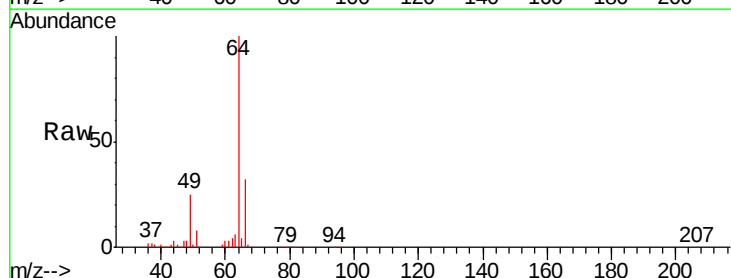
Acq: 4 Dec 2018 19:08

Tgt Ion: 64 Resp: 337361

Ion Ratio Lower Upper

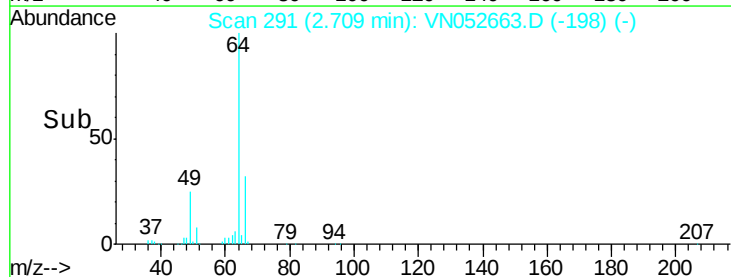
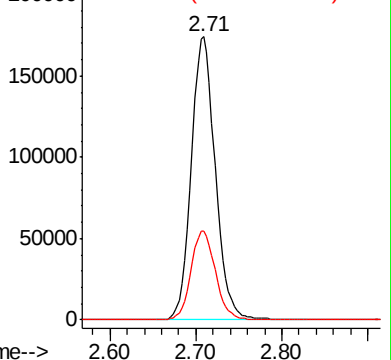
64 100

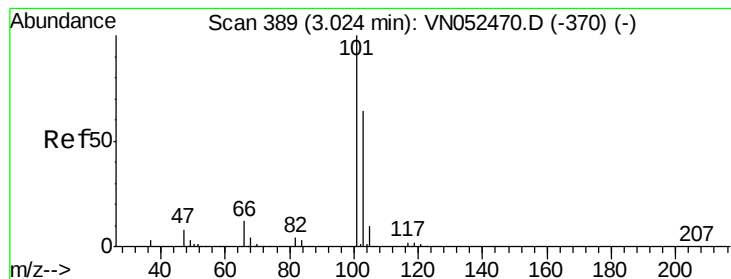
66 31.6 25.7 38.5



Abundance Ion 63.90 (63.60 to 64.60): VN0

Ion 65.90 (65.60 to 66.60): VN0





#7

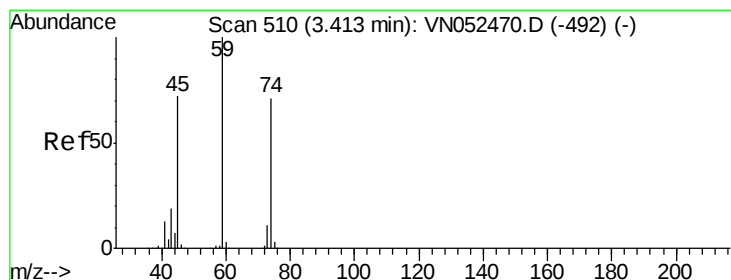
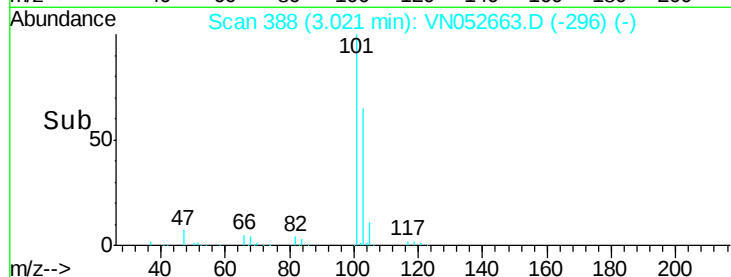
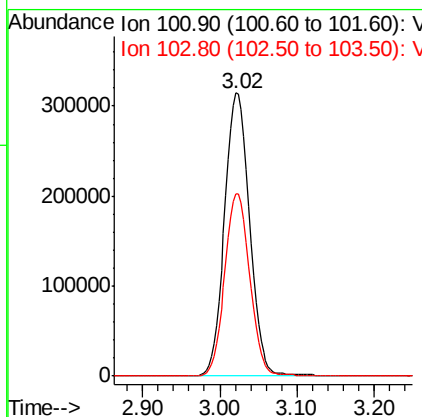
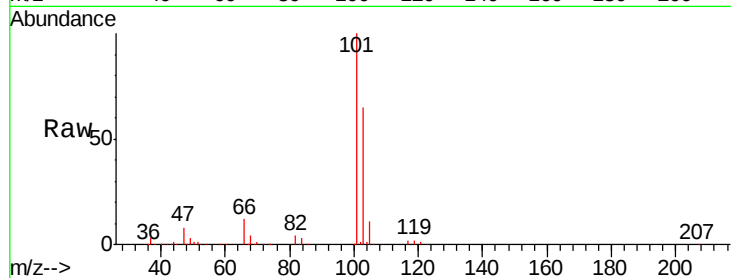
Trichlorofluoromethane
Concen: 46.101 ug/l
RT: 3.02 min Scan# 388
Delta R.T. -0.00 min
Lab File: VN052663.D
Acq: 4 Dec 2018 19:08

Instrument :
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VSTDCCC050EC

Tgt Ion	Ratio	Lower	Upper
101	100		
103	64.5	51.4	77.2

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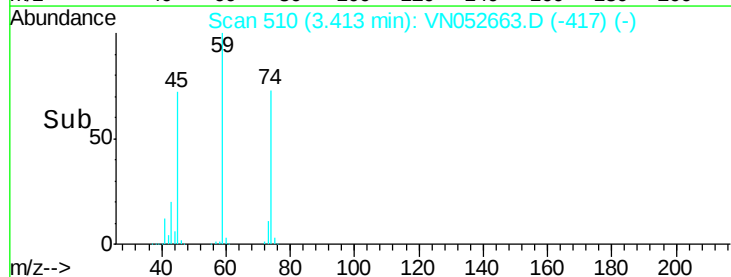
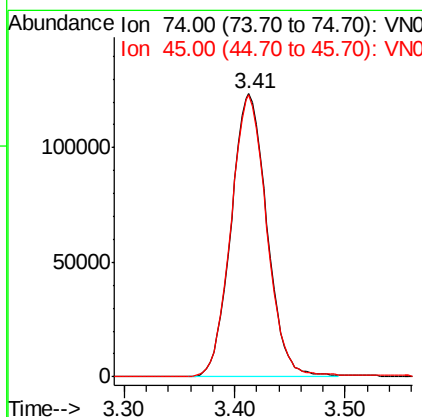
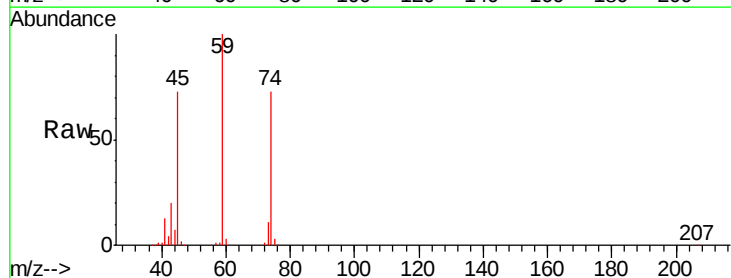
MMDadoda
12/5/2018 9:13:15 AM



#8

Diethyl Ether
Concen: 48.858 ug/l
RT: 3.41 min Scan# 510
Delta R.T. -0.00 min
Lab File: VN052663.D
Acq: 4 Dec 2018 19:08

Tgt Ion	Ratio	Lower	Upper
74	100		
45	98.8	50.4	151.3





#9

1,1,2-Trichlorotrifluoroethane

Concen: 45.568 ug/l

RT: 3.76 min Scan# 619

Delta R.T. -0.00 min

Lab File: VN052663.D

Acq: 4 Dec 2018 19:08

Instrument :

MSVOA_N

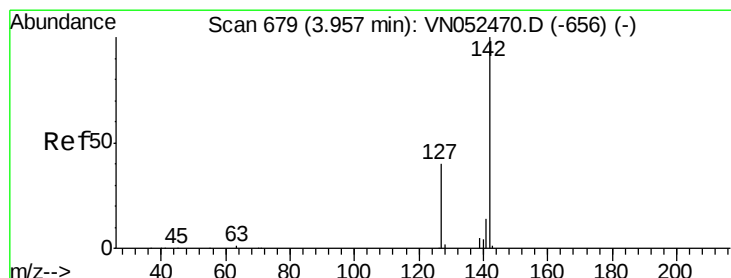
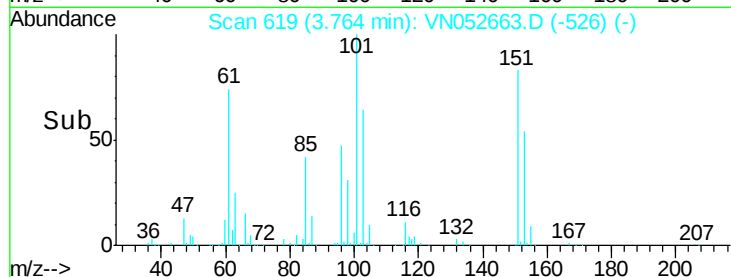
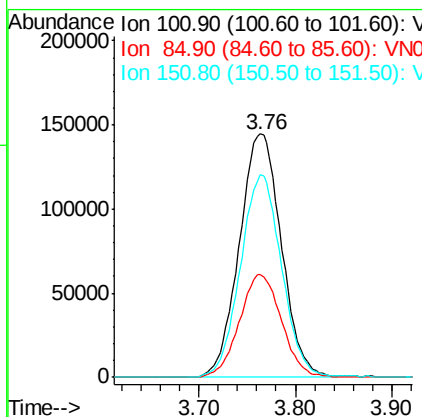
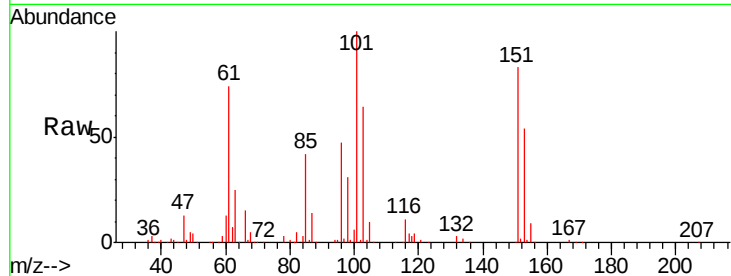
ClientSampleId :

VSTDCCC050EC

Tgt Ion:	101	Resp:	436948
Ion Ratio	Lower	Upper	
101	100		
85	42.2	34.2	51.4
151	81.8	64.6	96.8

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#10

Methyl Iodide

Concen: 53.705 ug/l

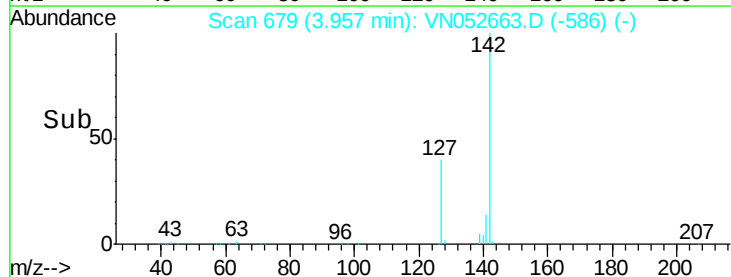
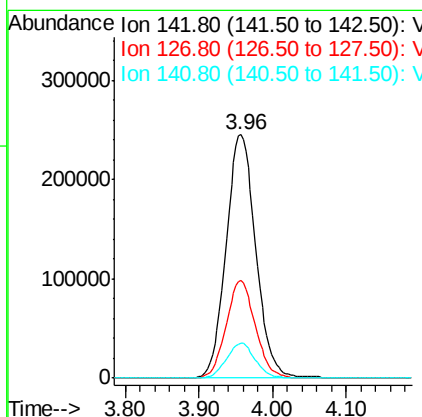
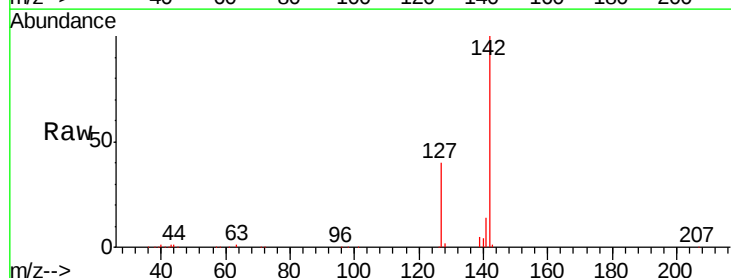
RT: 3.96 min Scan# 679

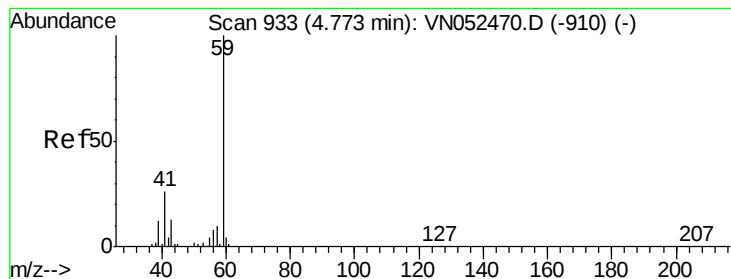
Delta R.T. -0.00 min

Lab File: VN052663.D

Acq: 4 Dec 2018 19:08

Tgt Ion:	142	Resp:	685896
Ion Ratio	Lower	Upper	
142	100		
127	39.5	31.8	47.6
141	14.0	11.4	17.0





#11

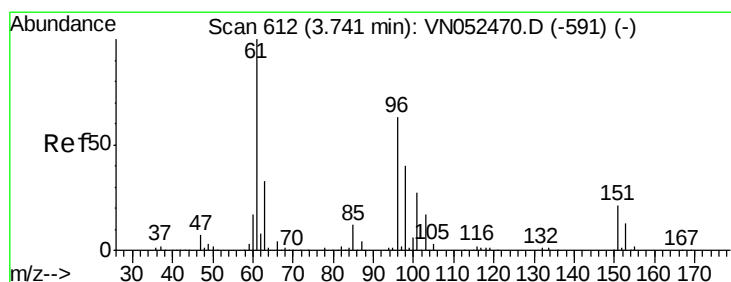
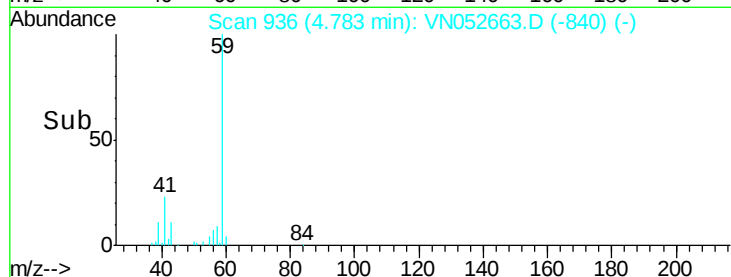
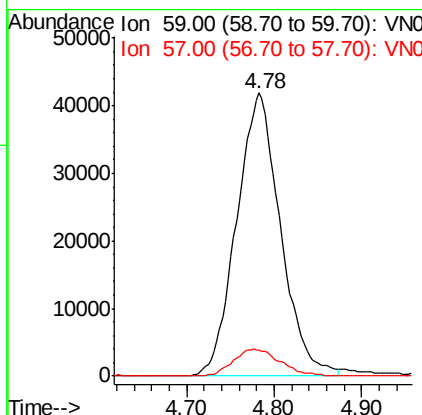
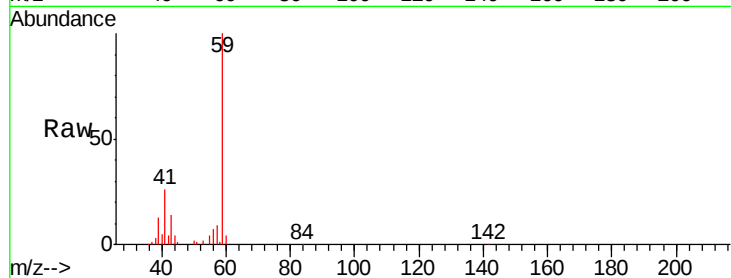
Tert butyl alcohol
 Concen: 270.882 ug/l
 RT: 4.78 min Scan# 936
 Delta R.T. 0.01 min
 Lab File: VN052663.D
 Acq: 4 Dec 2018 19:08

Instrument :
 MSVOA_N
 ClientSampleId :
 VSTDCCC050EC

Tgt Ion	Ratio	Lower	Upper
59	100		
57	10.1	7.9	11.9

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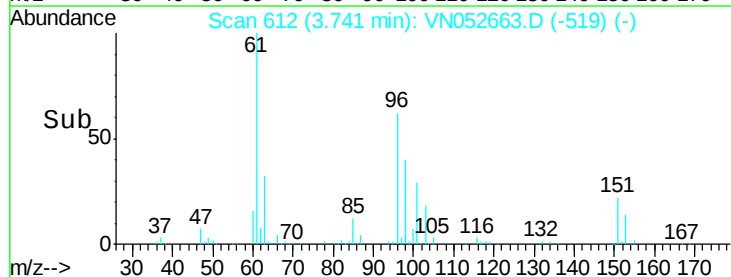
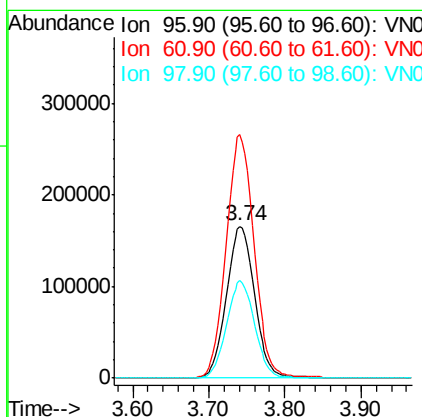
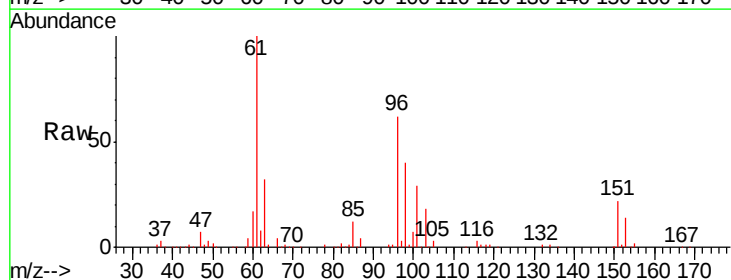
MMDadoda
 12/5/2018 9:13:15 AM

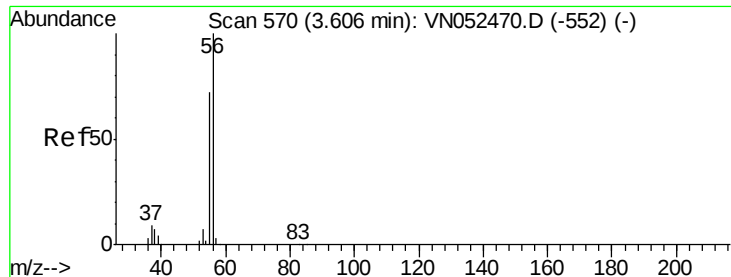


#12

1,1-Dichloroethene
 Concen: 46.391 ug/l
 RT: 3.74 min Scan# 612
 Delta R.T. -0.00 min
 Lab File: VN052663.D
 Acq: 4 Dec 2018 19:08

Tgt Ion	Ratio	Lower	Upper
96	100		
61	160.5	127.0	190.6
98	64.3	50.3	75.5





#13

Acrolein

Concen: 186.786 ug/l

RT: 3.61 min Scan# 571

Delta R.T. 0.00 min

Lab File: VN052663.D

Acq: 4 Dec 2018 19:08

Instrument :

MSVOA_N

ClientSampleId :

VSTDCCC050EC

Tgt Ion: 56 Resp: 174364

Ion Ratio Lower Upper

56 100

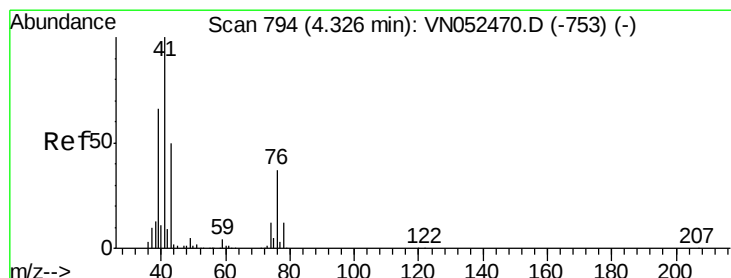
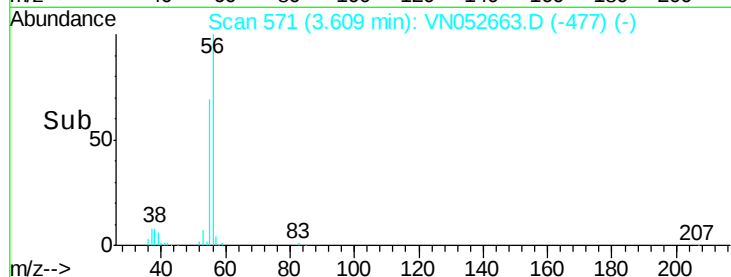
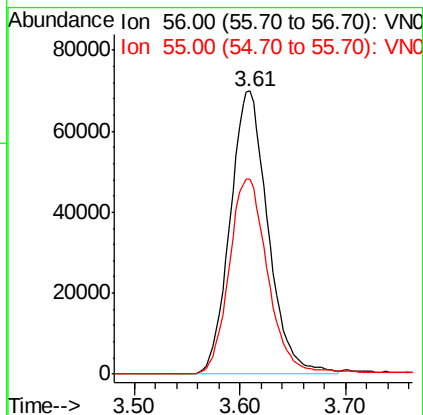
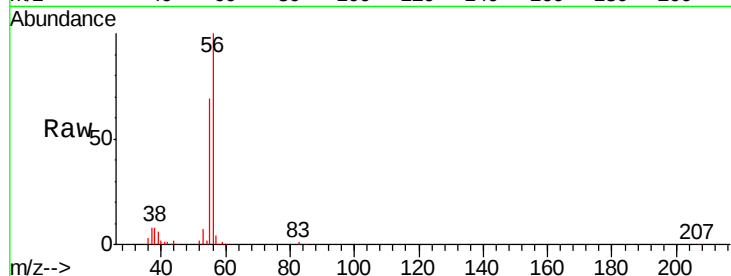
55 70.1 56.8 85.2

Manual Integrations

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#14

Allyl chloride

Concen: 46.903 ug/l

RT: 4.33 min Scan# 794

Delta R.T. -0.00 min

Lab File: VN052663.D

Acq: 4 Dec 2018 19:08

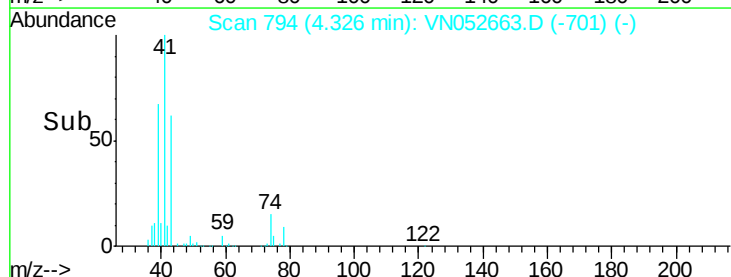
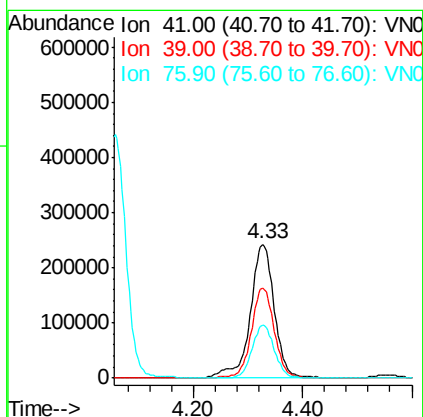
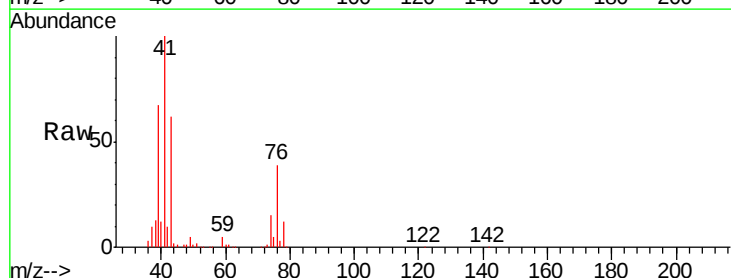
Tgt Ion: 41 Resp: 746137

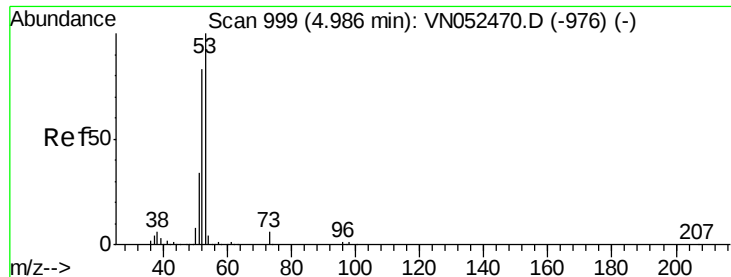
Ion Ratio Lower Upper

41 100

39 64.9 50.6 76.0

76 36.0 27.4 41.2





#15

Acrylonitrile

Concen: 253.112 ug/l

RT: 4.99 min Scan# 999

Delta R.T. -0.00 min

Lab File: VN052663.D

Acq: 4 Dec 2018 19:08

Instrument :

MSVOA_N

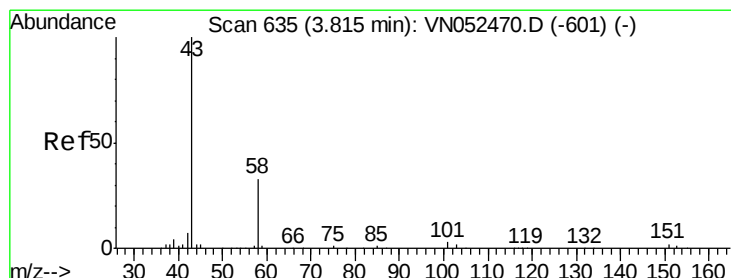
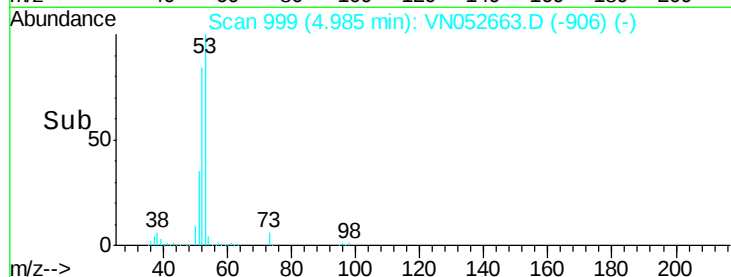
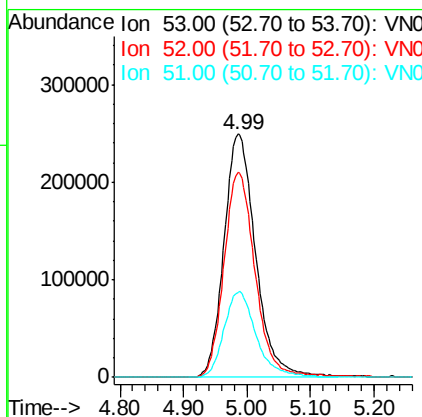
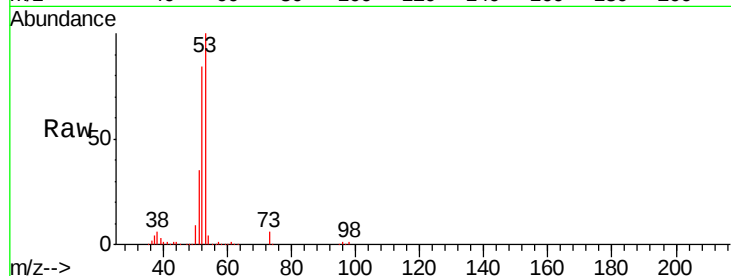
ClientSampleId :

VSTDCCC050EC

Tgt Ion:	53	Resp:	860572
Ion	Ratio	Lower	Upper
53	100		
52	82.6	66.2	99.2
51	36.0	28.1	42.1

Manual Integrations
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#16

Acetone

Concen: 215.561 ug/l

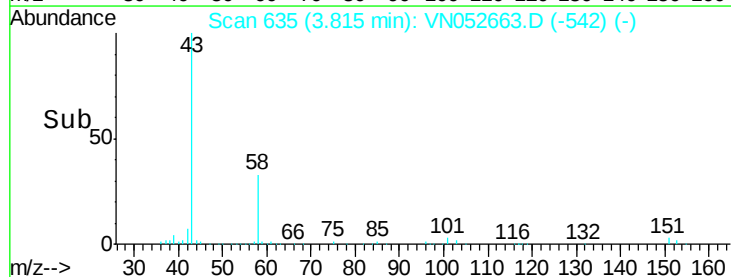
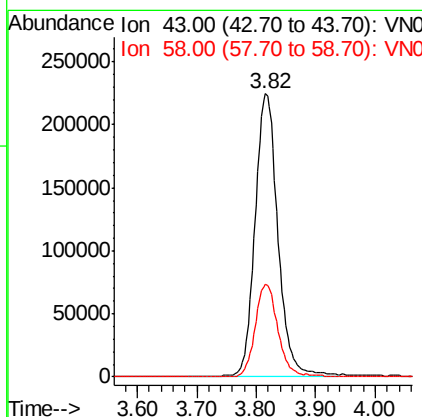
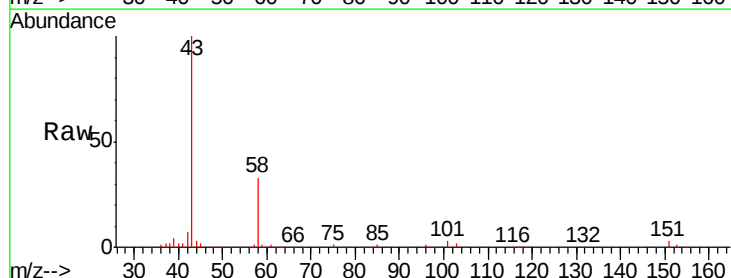
RT: 3.82 min Scan# 635

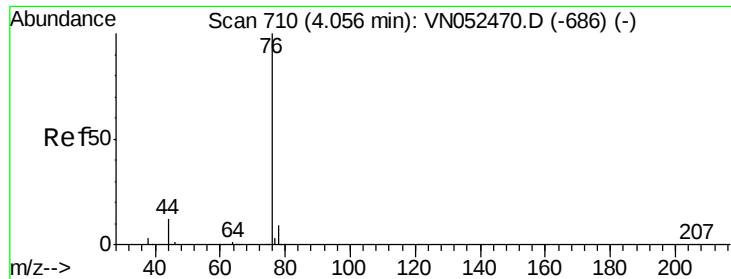
Delta R.T. -0.00 min

Lab File: VN052663.D

Acq: 4 Dec 2018 19:08

Tgt Ion:	43	Resp:	609995
Ion	Ratio	Lower	Upper
43	100		
58	32.6	26.0	39.0





#17

Carbon Disulfide

Concen: 40.637 ug/l

RT: 4.06 min Scan# 710

Delta R.T. -0.00 min

Lab File: VN052663.D

Acq: 4 Dec 2018 19:08

Instrument :

MSVOA_N

ClientSampleId :

VSTDCCC050EC

Tgt Ion: 76 Resp: 1180390

Ion Ratio Lower Upper

76 100

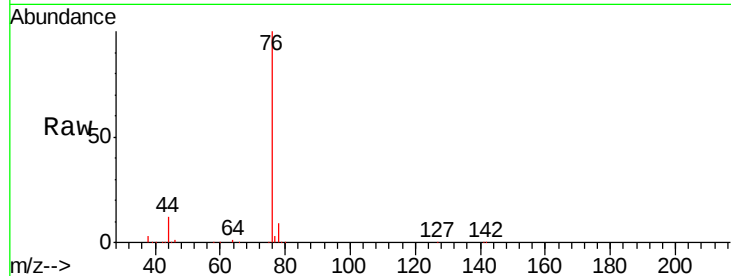
78 9.1 7.4 11.0

Manual Integrations

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Abundance Ion 75.90 (75.60 to 76.60): VN0

Ion 77.90 (77.60 to 78.60): VN0

4.06

500000

400000

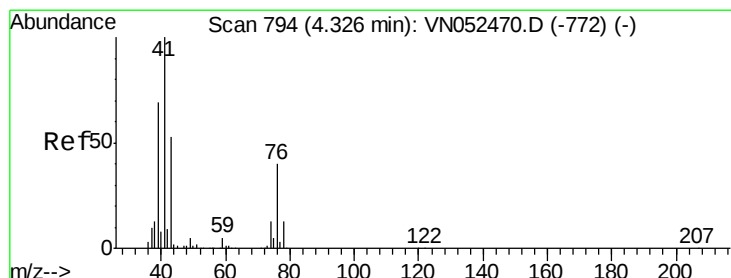
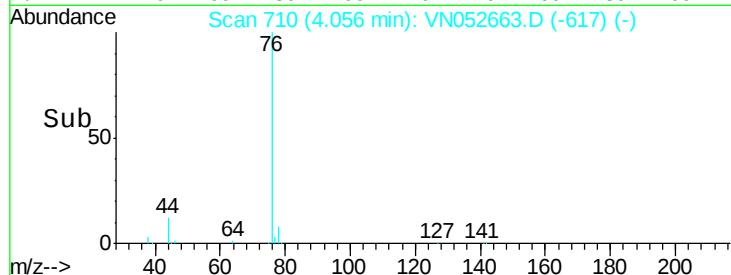
300000

200000

100000

0

Time-->



#18

Methyl Acetate

Concen: 54.266 ug/l

RT: 4.33 min Scan# 794

Delta R.T. -0.00 min

Lab File: VN052663.D

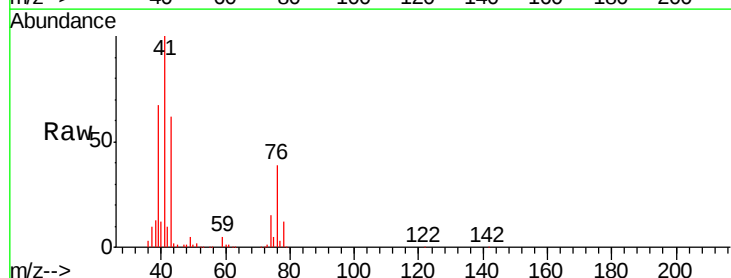
Acq: 4 Dec 2018 19:08

Tgt Ion: 43 Resp: 440484

Ion Ratio Lower Upper

43 100

74 23.3 18.6 27.8



Abundance Ion 43.00 (42.70 to 43.70): VN0

Ion 74.00 (73.70 to 74.70): VN0

4.33

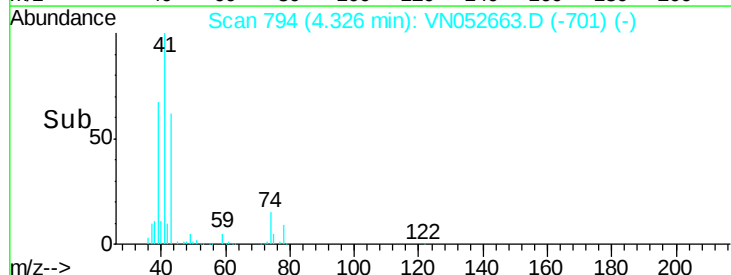
150000

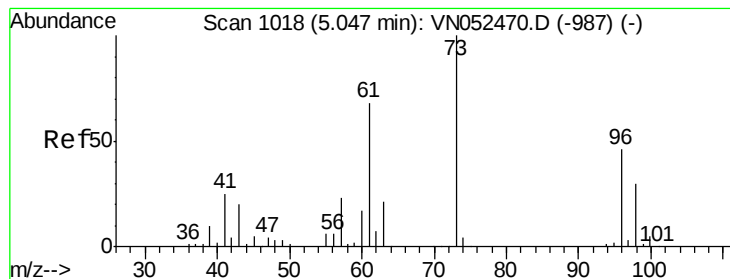
100000

50000

0

Time-->





#19

Methyl tert-butyl Ether

Concen: 51.017 ug/l

RT: 5.05 min Scan# 1018

Delta R.T. -0.00 min

Lab File: VN052663.D

Acq: 4 Dec 2018 19:08

Instrument :

MSVOA_N

ClientSampleId :

VSTDCCC050EC

Tgt Ion: 73 Resp: 1252870

Ion Ratio Lower Upper

73 100

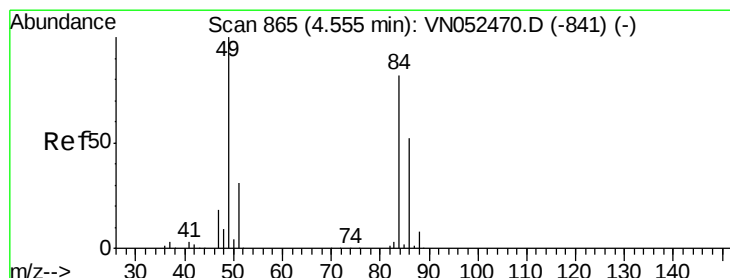
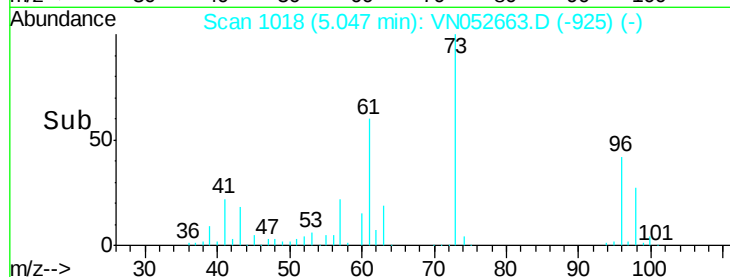
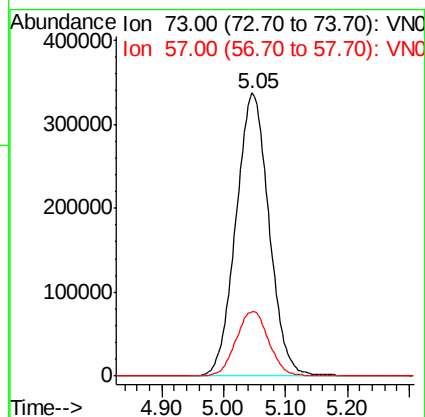
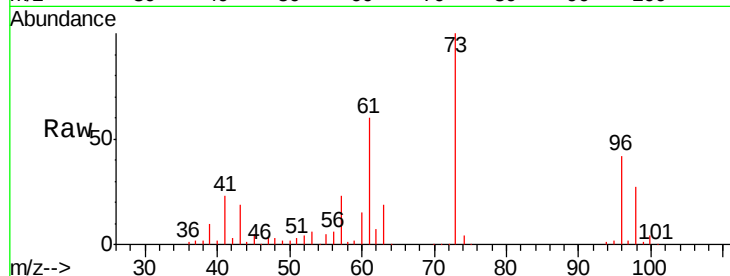
57 22.8 18.2 27.2

Manual Integrations

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#20

Methylene Chloride

Concen: 45.934 ug/l

RT: 4.55 min Scan# 865

Delta R.T. -0.00 min

Lab File: VN052663.D

Acq: 4 Dec 2018 19:08

Tgt Ion: 84 Resp: 508668

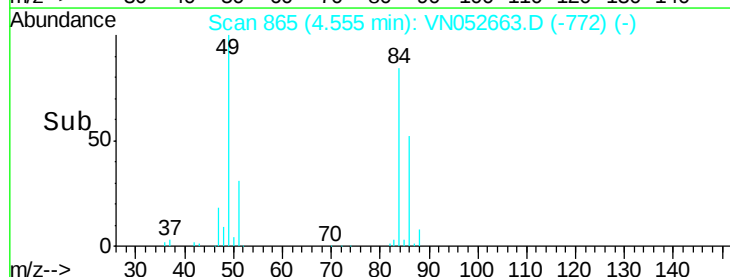
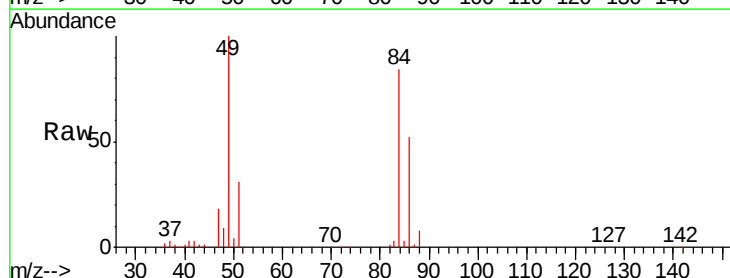
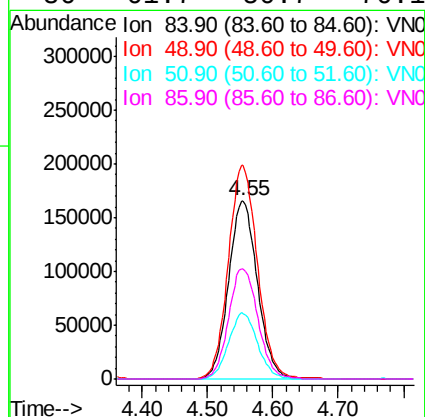
Ion Ratio Lower Upper

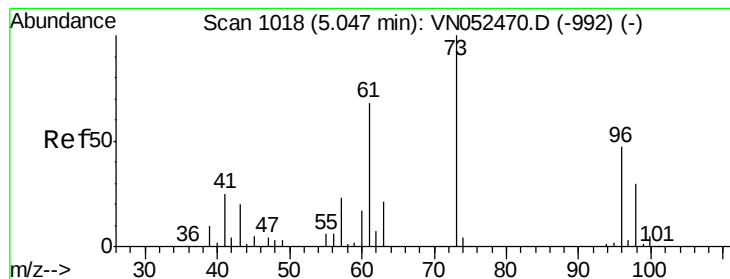
84 100

49 119.6 98.0 147.0

51 36.7 30.1 45.1

86 61.7 50.7 76.1





#21

trans-1,2-Dichloroethene

Concen: 46.907 ug/l

RT: 5.05 min Scan# 1018

Delta R.T. -0.00 min

Lab File: VN052663.D

Acq: 4 Dec 2018 19:08

Instrument :

MSVOA_N

ClientSampleId :

VSTDCCC050EC

Tgt Ion: 96 Resp: 462407

Ion Ratio Lower Upper

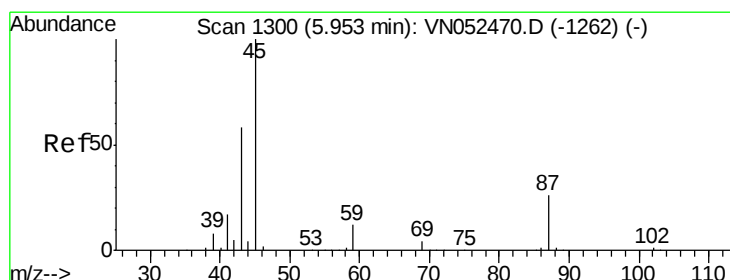
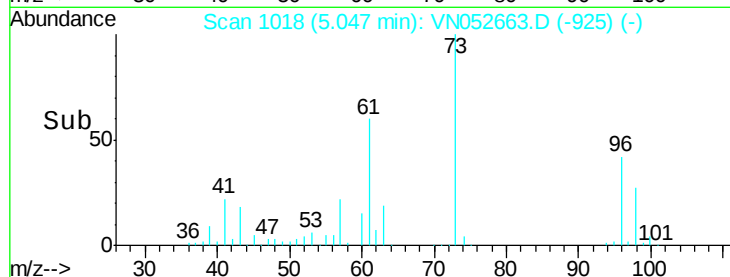
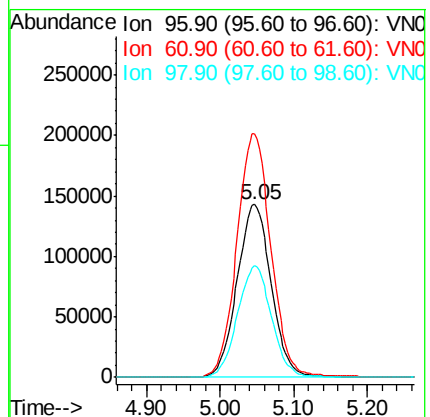
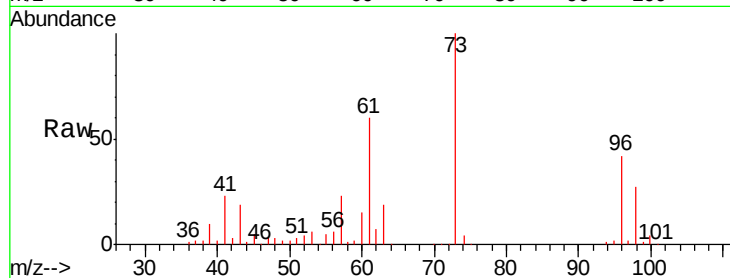
96 100

61 141.0 117.0 175.4

98 64.6 51.8 77.6

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#22

Diisopropyl ether

Concen: 48.245 ug/l

RT: 5.95 min Scan# 1300

Delta R.T. -0.00 min

Lab File: VN052663.D

Acq: 4 Dec 2018 19:08

Tgt Ion: 45 Resp: 1612139

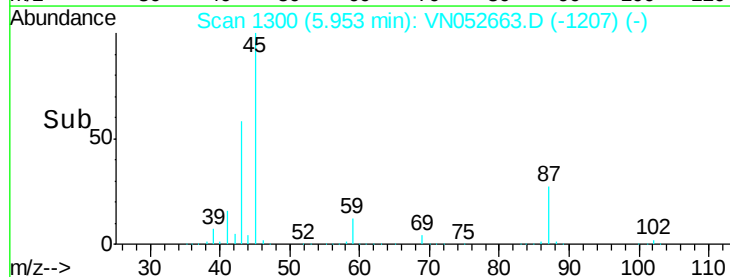
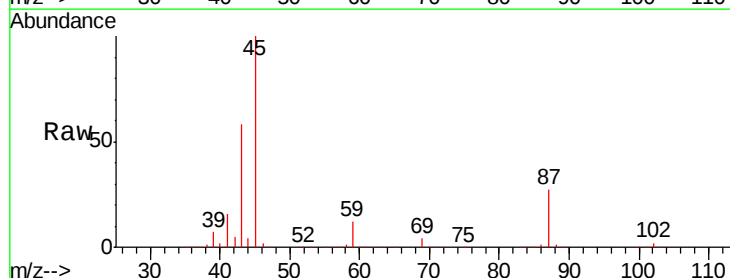
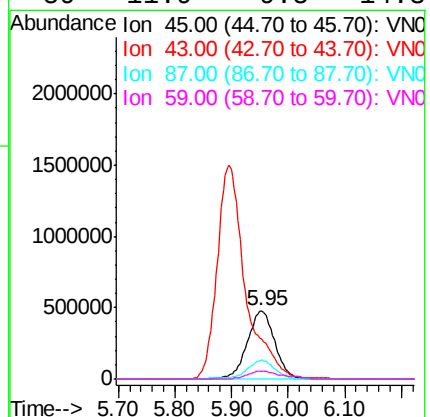
Ion Ratio Lower Upper

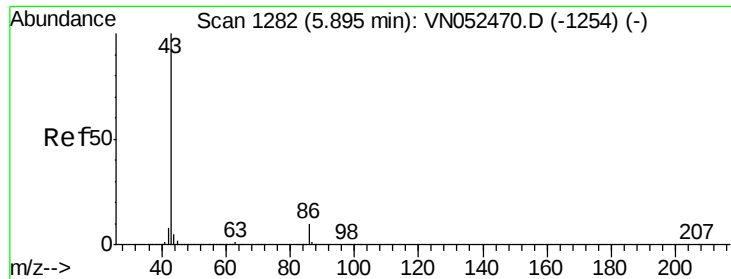
45 100

43 57.7 46.1 69.1

87 27.2 21.3 31.9

59 11.9 9.5 14.3





#23

Vinyl Acetate

Concen: 250.996 ug/l

RT: 5.90 min Scan# 1282

Delta R.T. -0.00 min

Lab File: VN052663.D

Acq: 4 Dec 2018 19:08

Instrument :

MSVOA_N

ClientSampleId :

VSTDCCC050EC

Tgt Ion: 43 Resp: 5224005

Ion Ratio Lower Upper

43 100

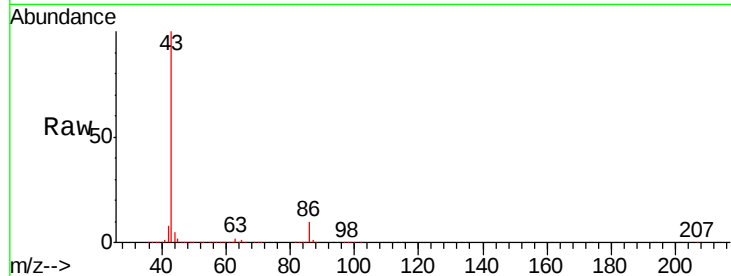
86 10.3 7.8 11.8

Manual Integrations

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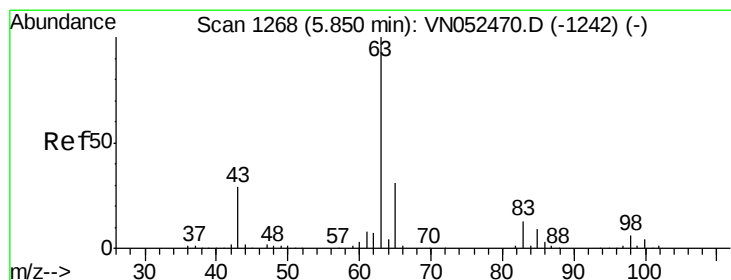
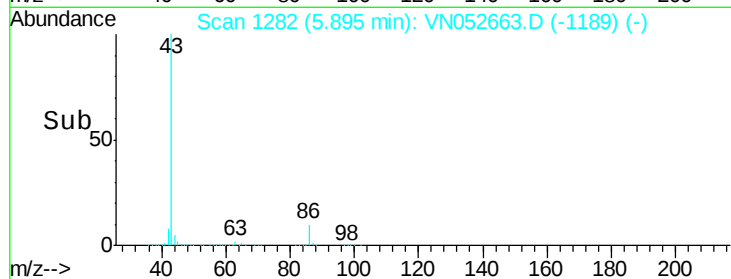
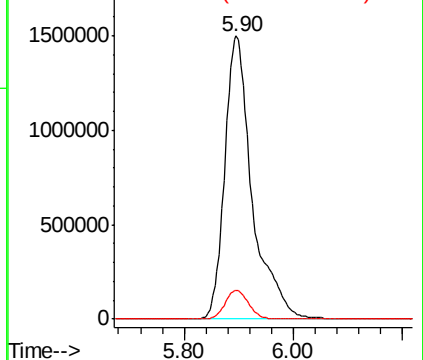
MMDadoda

12/5/2018 9:13:15 AM



Abundance Ion 43.00 (42.70 to 43.70): VN0

Ion 86.00 (85.70 to 86.70): VN0



#24

1,1-Dichloroethane

Concen: 47.797 ug/l

RT: 5.85 min Scan# 1268

Delta R.T. -0.00 min

Lab File: VN052663.D

Acq: 4 Dec 2018 19:08

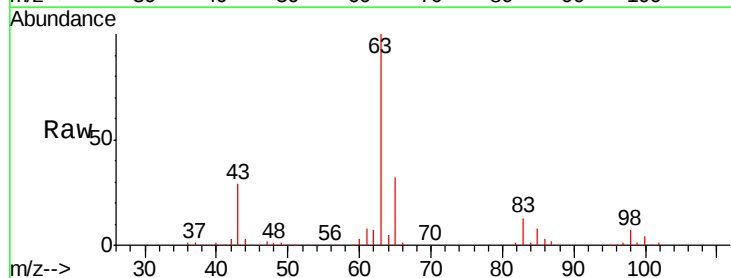
Tgt Ion: 63 Resp: 911922

Ion Ratio Lower Upper

63 100

98 6.6 3.0 9.2

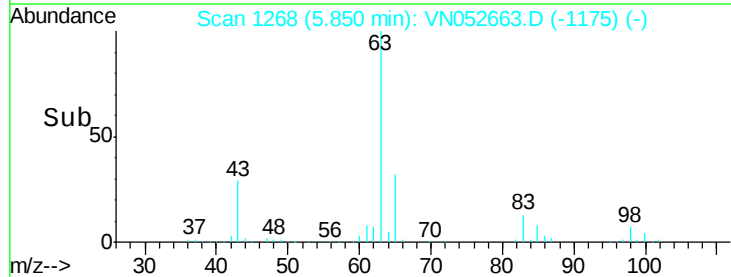
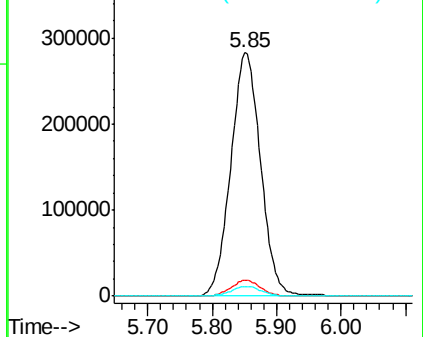
100 4.1 2.0 5.8

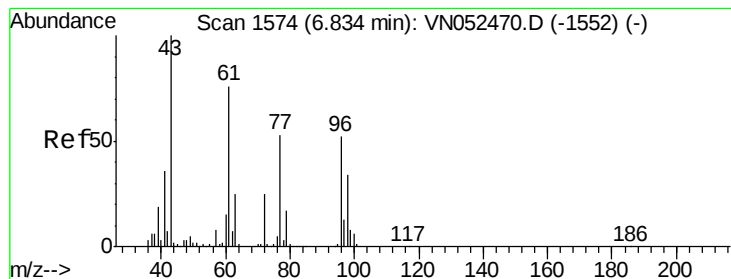


Abundance Ion 62.90 (62.60 to 63.60): VN0

Ion 97.90 (97.60 to 98.60): VN0

Ion 99.90 (99.60 to 100.60): VN0





#25

2-Butanone

Concen: 244.529 ug/l

RT: 6.83 min Scan# 1574

Delta R.T. -0.00 min

Lab File: VN052663.D

Acq: 4 Dec 2018 19:08

Instrument :

MSVOA_N

ClientSampleId :

VSTDCCC050EC

Tgt Ion: 43 Resp: 980794

Ion Ratio Lower Upper

43 100

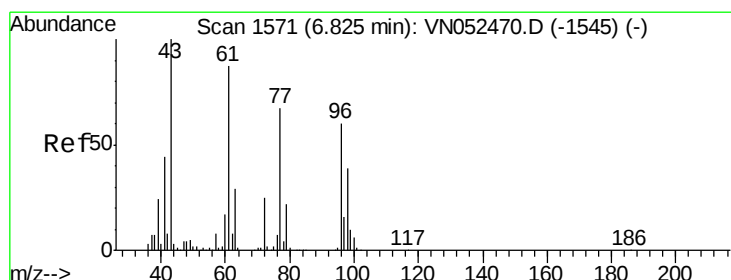
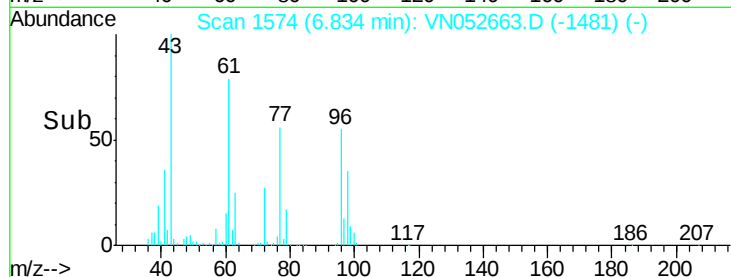
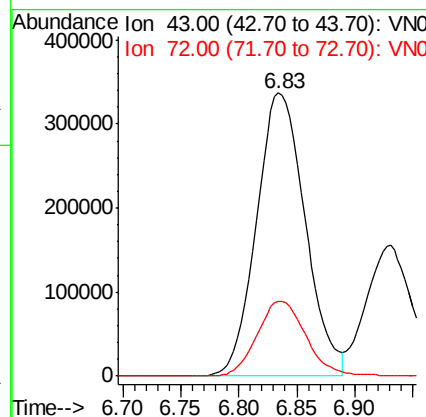
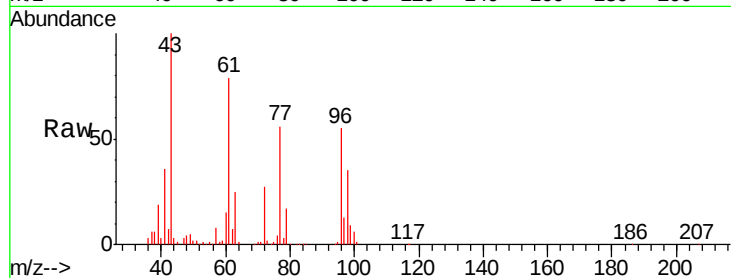
72 26.7 20.1 30.1

Manual Integrations

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#26

2,2-Dichloropropane

Concen: 47.831 ug/l

RT: 6.83 min Scan# 1572

Delta R.T. 0.00 min

Lab File: VN052663.D

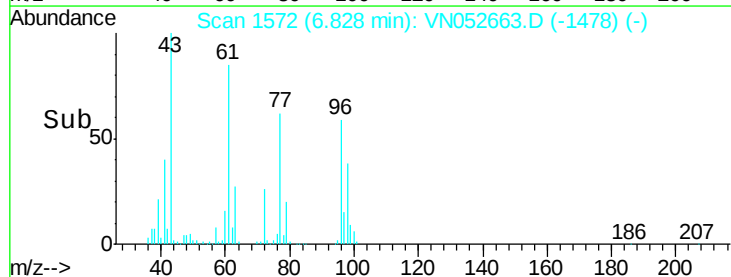
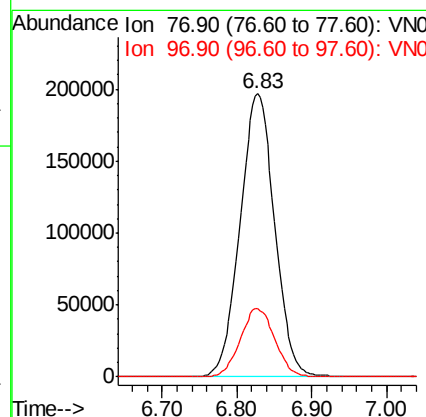
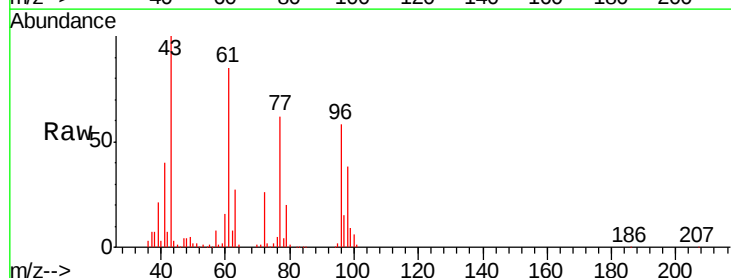
Acq: 4 Dec 2018 19:08

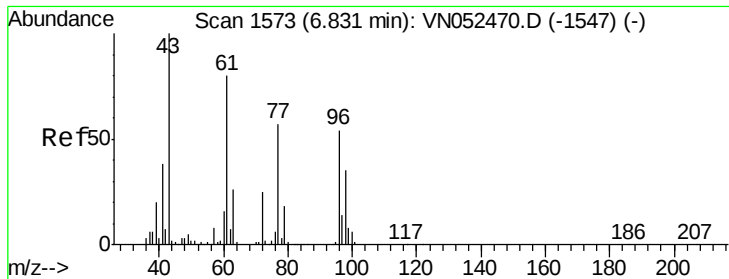
Tgt Ion: 77 Resp: 631649

Ion Ratio Lower Upper

77 100

97 24.1 11.8 35.3





#27

cis-1,2-Dichloroethene

Concen: 48.170 ug/l

RT: 6.83 min Scan# 1573

Delta R.T. -0.00 min

Lab File: VN052663.D

Acq: 4 Dec 2018 19:08

Instrument :

MSVOA_N

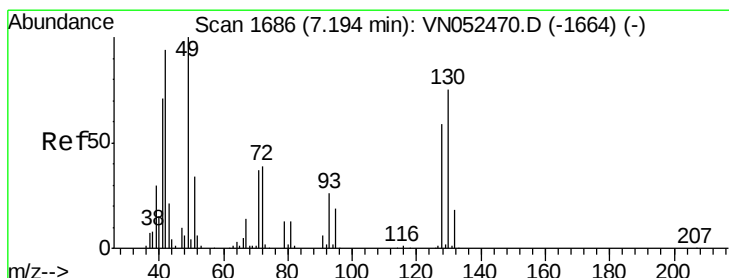
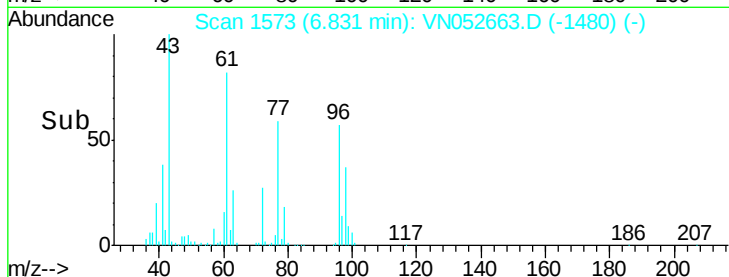
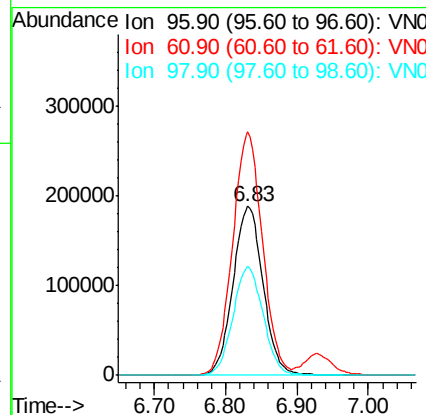
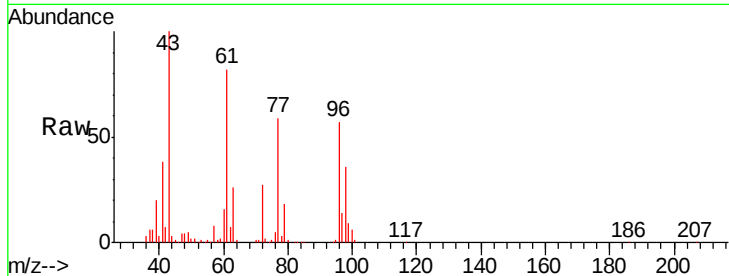
ClientSampleId :

VSTDCCC050EC

Tgt Ion:	96	Resp:	553148
Ion	Ratio	Lower	Upper
96	100		
61	142.6	0.0	291.0
98	64.7	0.0	130.0

Manual Integrations
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#28

Bromochloromethane

Concen: 47.728 ug/l

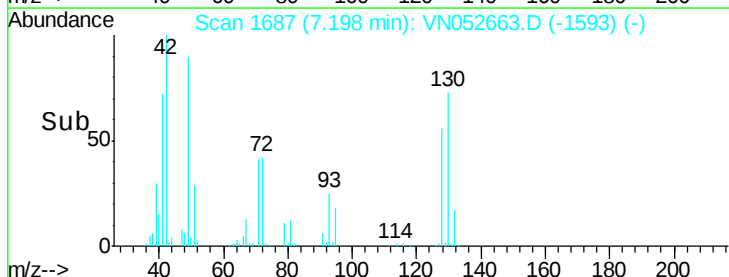
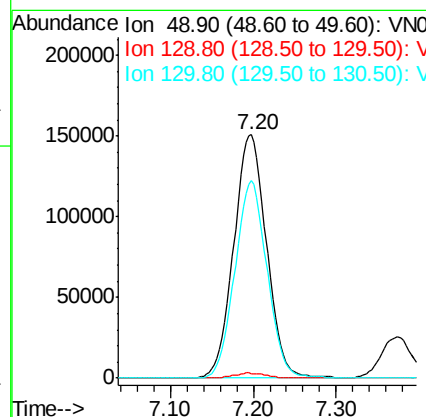
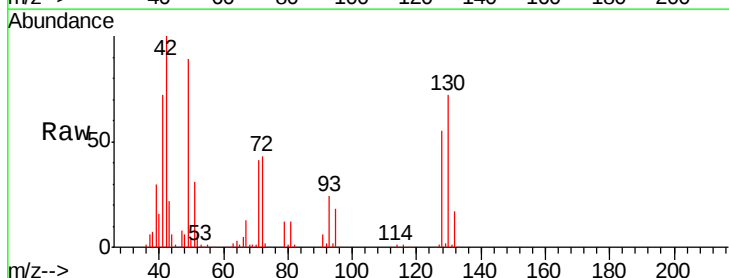
RT: 7.20 min Scan# 1687

Delta R.T. 0.00 min

Lab File: VN052663.D

Acq: 4 Dec 2018 19:08

Tgt Ion:	49	Resp:	415923
Ion	Ratio	Lower	Upper
49	100		
129	2.0	0.0	3.8
130	79.6	60.2	90.2





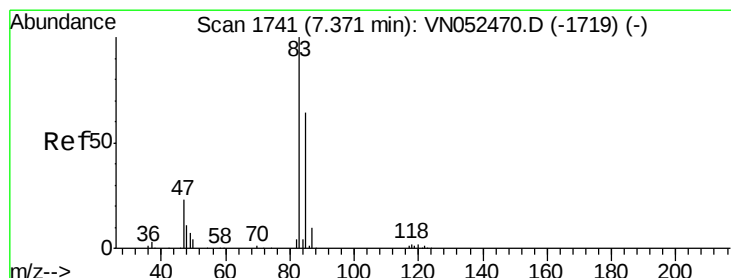
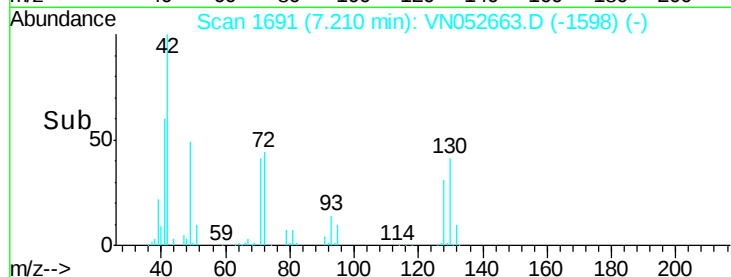
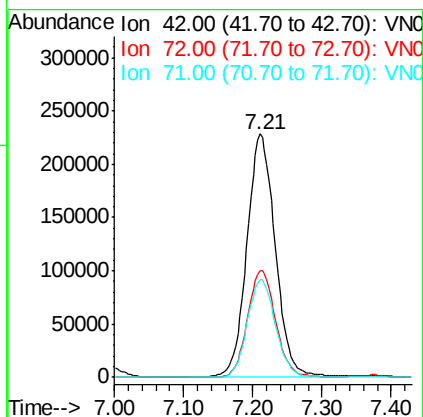
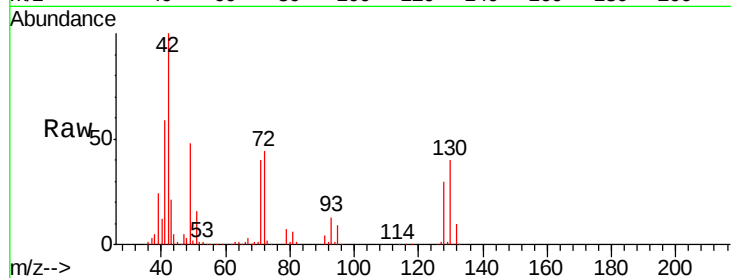
#29
Tetrahydrofuran
Concen: 250.474 ug/l
RT: 7.21 min Scan# 1691
Delta R.T. -0.00 min
Lab File: VN052663.D
Acq: 4 Dec 2018 19:08

Instrument :
MSVOA_N
ClientSampleId :
VSTDCCC050EC

Tgt Ion	Ratio	Lower	Upper
42	100		
72	43.5	33.3	49.9
71	40.2	32.0	48.0

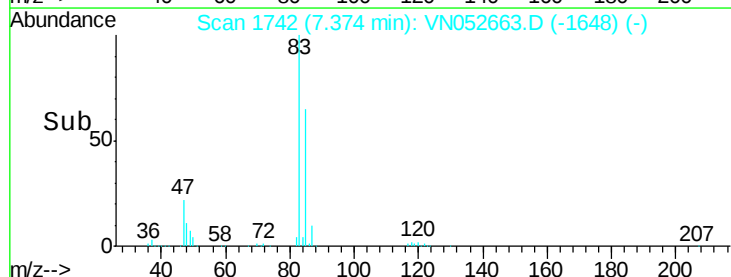
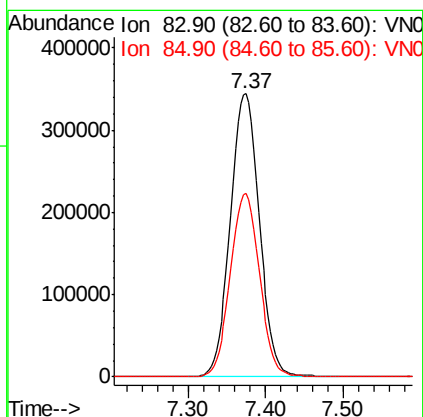
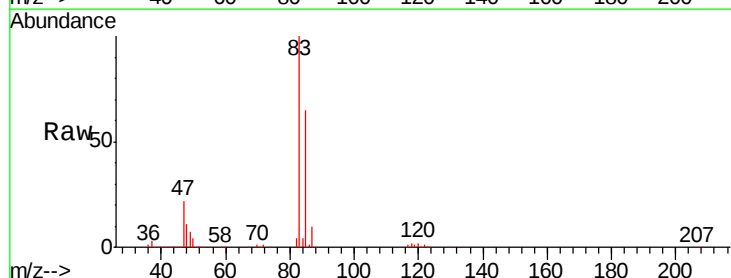
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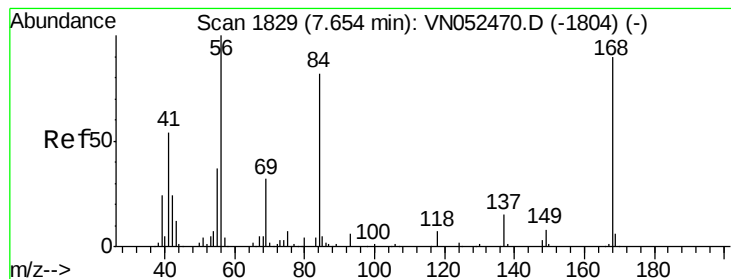
MMDadoda
12/5/2018 9:13:15 AM



#30
Chloroform
Concen: 47.149 ug/l
RT: 7.37 min Scan# 1742
Delta R.T. 0.00 min
Lab File: VN052663.D
Acq: 4 Dec 2018 19:08

Tgt Ion	Ratio	Lower	Upper
83	100		
85	65.1	51.0	76.4





#31

Cyclohexane

Concen: 42.974 ug/l

RT: 7.65 min Scan# 1829

Delta R.T. 0.00 min

Lab File: VN052663.D

Acq: 4 Dec 2018 19:08

Instrument :

MSVOA_N

ClientSampleId :

VSTDCCC050EC

Tgt Ion: 56 Resp: 794529
Ion Ratio Lower Upper

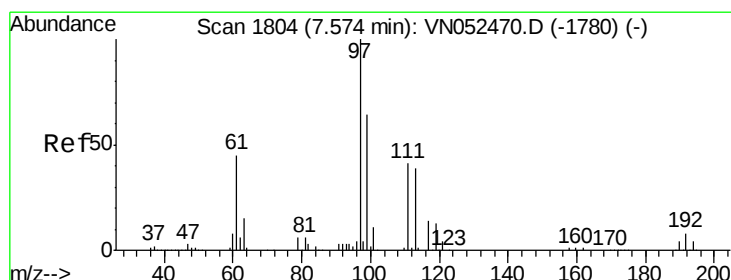
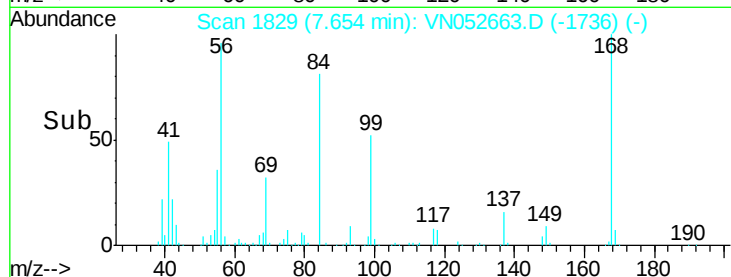
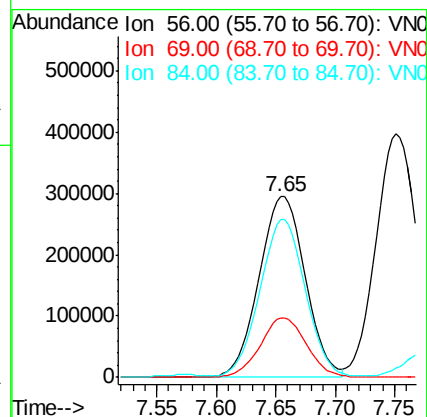
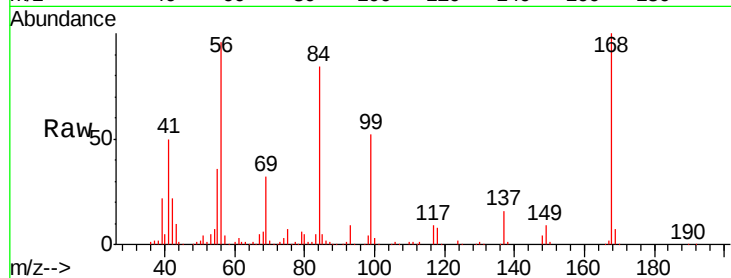
56 100

69 33.1 25.8 38.6

84 86.1 65.3 97.9

Manual Integrations
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12/5/2018 9:13:15 AM



#32

1,1,1-Trichloroethane

Concen: 49.218 ug/l

RT: 7.57 min Scan# 1803

Delta R.T. -0.00 min

Lab File: VN052663.D

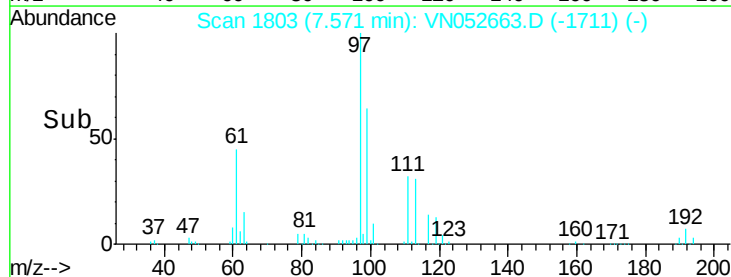
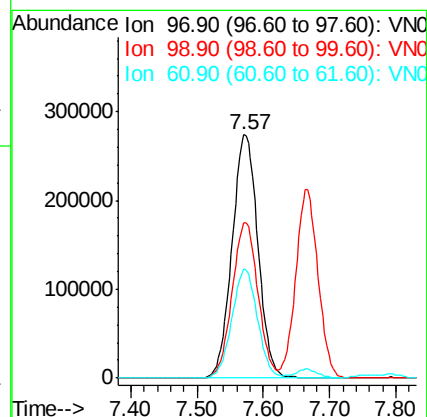
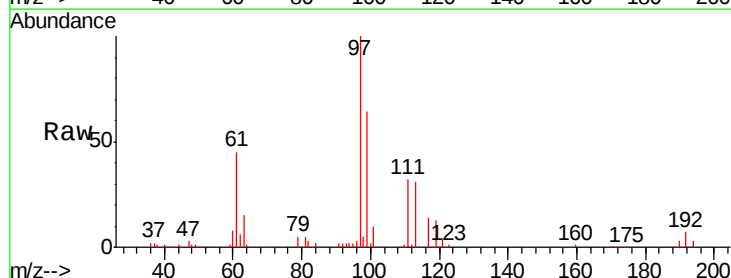
Acq: 4 Dec 2018 19:08

Tgt Ion: 97 Resp: 742297
Ion Ratio Lower Upper

97 100

99 63.7 51.7 77.5

61 44.1 36.8 55.2





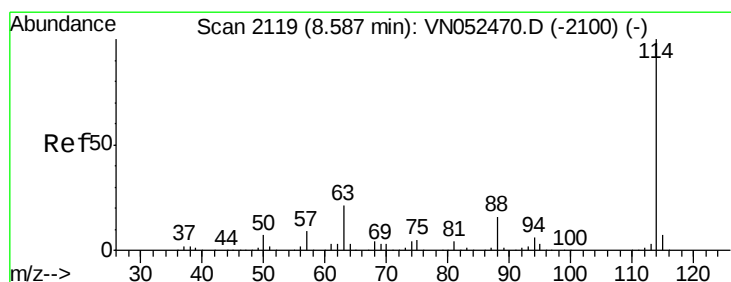
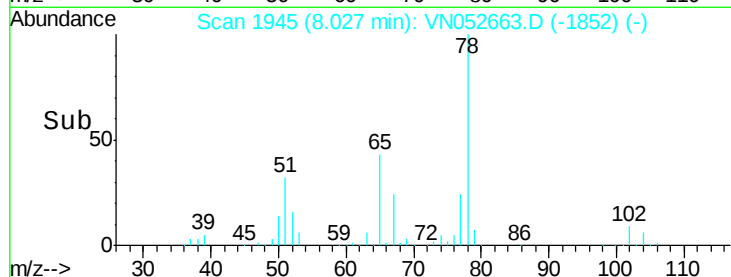
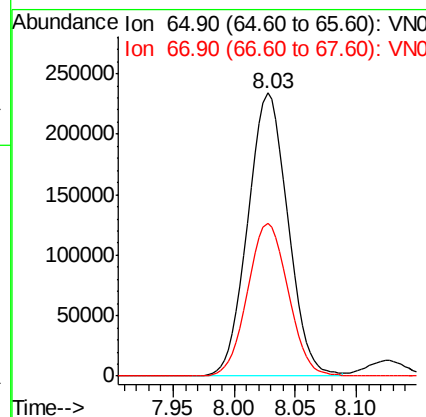
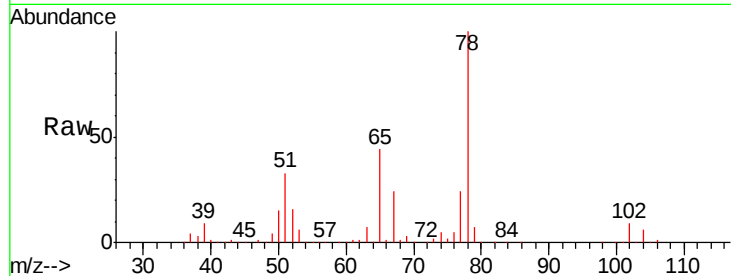
#33
 1,2-Dichloroethane-d4
 Concen: 49.218 ug/l
 RT: 8.03 min Scan# 1945
 Delta R.T. -0.00 min
 Lab File: VN052663.D
 Acq: 4 Dec 2018 19:08

Instrument :
 MSVOA_N
 ClientSampleId :
 VSTDCCC050EC

Tgt Ion: 65 Resp: 533299
 Ion Ratio Lower Upper
 65 100
 67 54.8 0.0 109.8

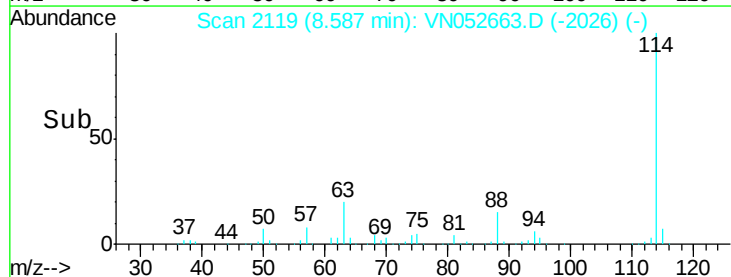
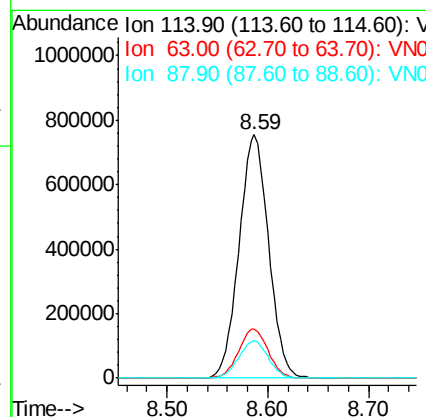
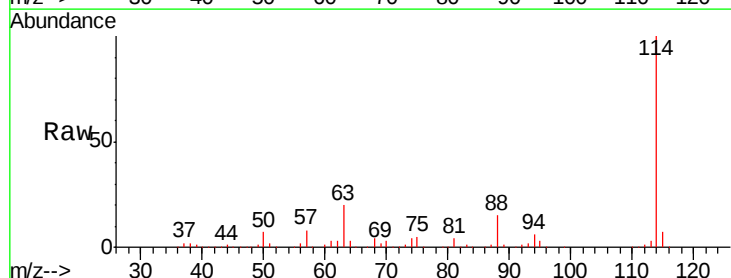
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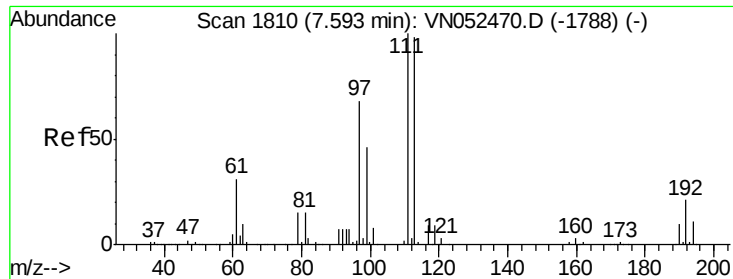
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#34
 1,4-Difluorobenzene
 Concen: 50.000 ug/l
 RT: 8.59 min Scan# 2119
 Delta R.T. -0.00 min
 Lab File: VN052663.D
 Acq: 4 Dec 2018 19:08

Tgt Ion: 114 Resp: 1531287
 Ion Ratio Lower Upper
 114 100
 63 20.4 0.0 41.8
 88 15.2 0.0 31.6





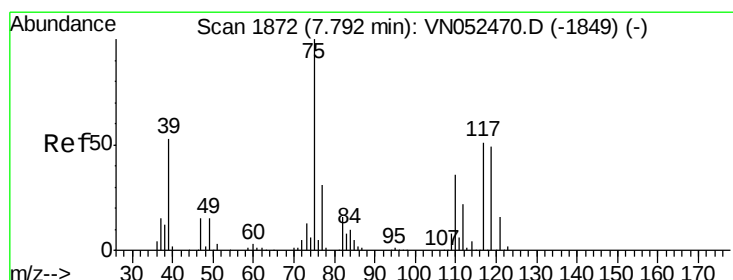
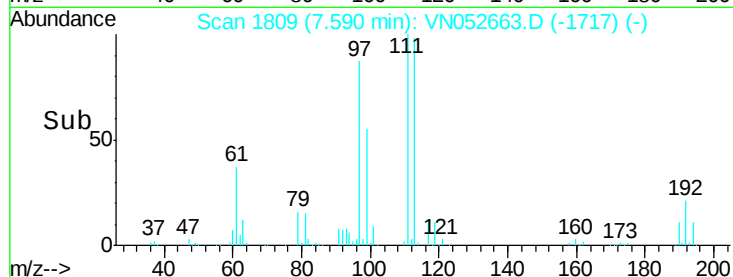
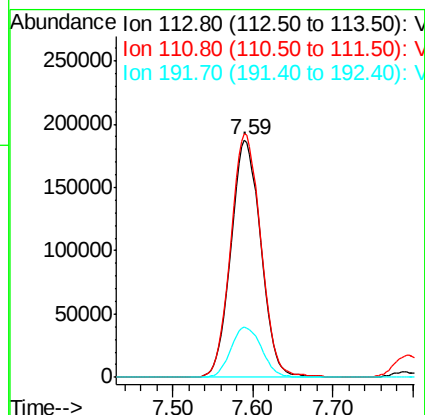
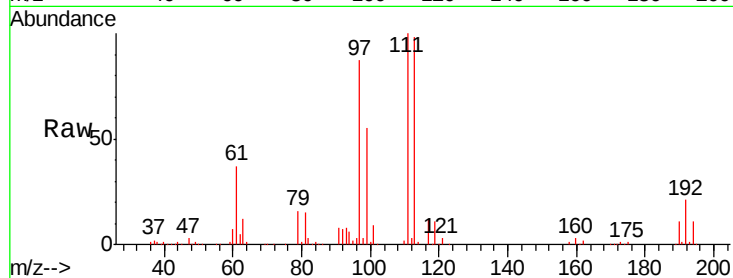
#35
 Dibromofluoromethane
 Concen: 50.000 ug/l
 RT: 7.59 min Scan# 1809
 Delta R.T. -0.00 min
 Lab File: VN052663.D
 Acq: 4 Dec 2018 19:08

Instrument :
 MSVOA_N
 ClientSampleId :
 VSTDCCC050EC

Tgt Ion	Ratio	Resp	Lower	Upper
113	100	476154		
111	103.2	82.0	123.0	
192	21.7	17.0	25.6	

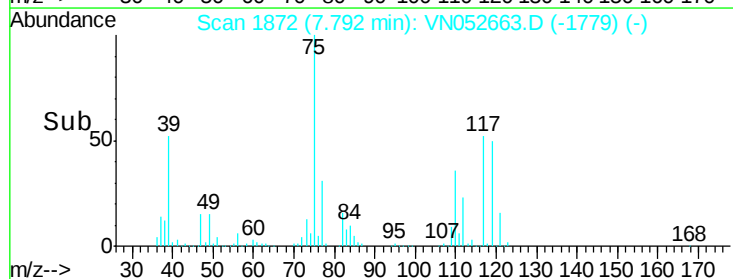
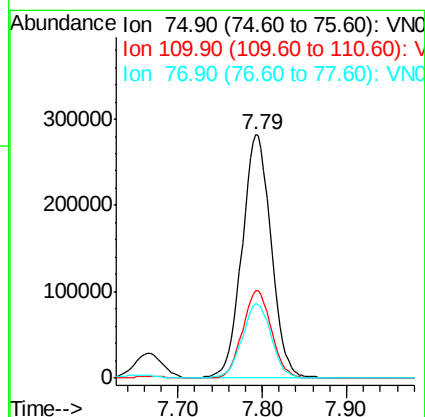
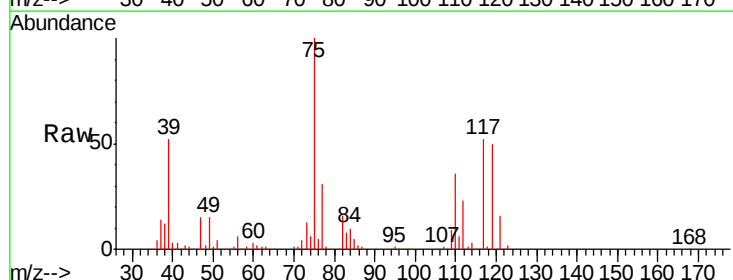
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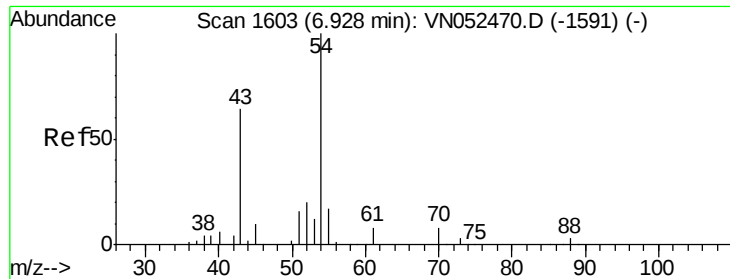
MMDadoda
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#36
 1,1-Dichloropropene
 Concen: 46.721 ug/l
 RT: 7.79 min Scan# 1872
 Delta R.T. -0.00 min
 Lab File: VN052663.D
 Acq: 4 Dec 2018 19:08

Tgt Ion	Ratio	Resp	Lower	Upper
75	100	675596		
110	35.8	17.5	52.6	
77	31.0	24.5	36.7	





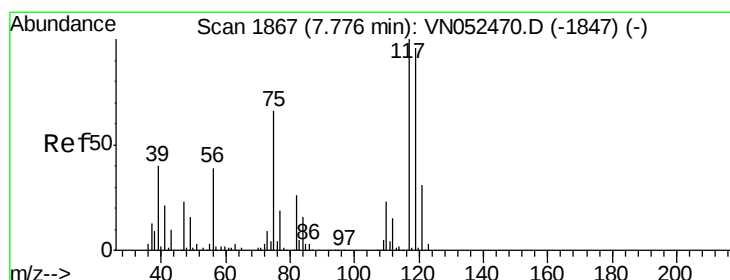
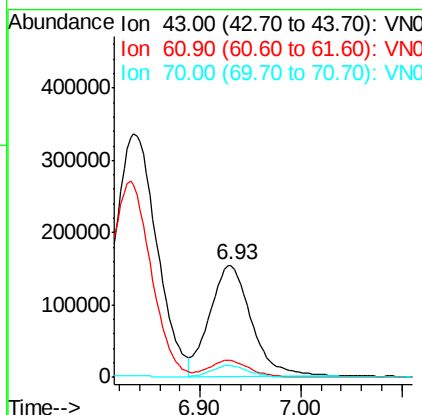
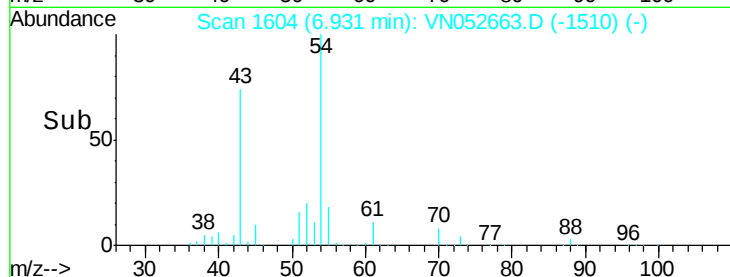
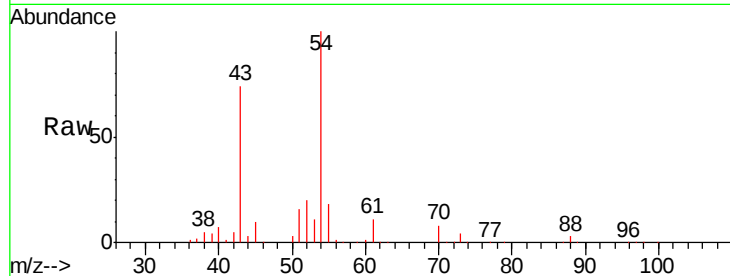
#37
Ethyl Acetate
Concen: 49.665 ug/l
RT: 6.93 min Scan# 1604
Delta R.T. 0.00 min
Lab File: VN052663.D
Acq: 4 Dec 2018 19:08

Instrument :
MSVOA_N
ClientSampleId :
VSTDCCC050EC

Tgt Ion: 43 Resp: 438297
Ion Ratio Lower Upper
43 100
61 15.0 11.8 17.8
70 9.9 7.8 11.8

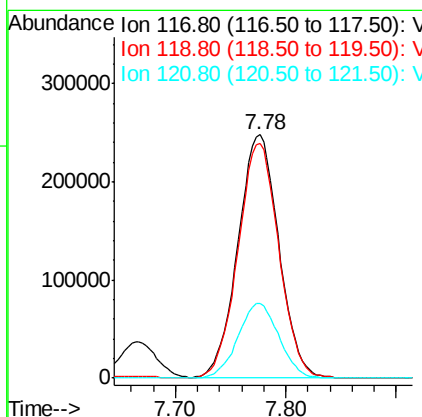
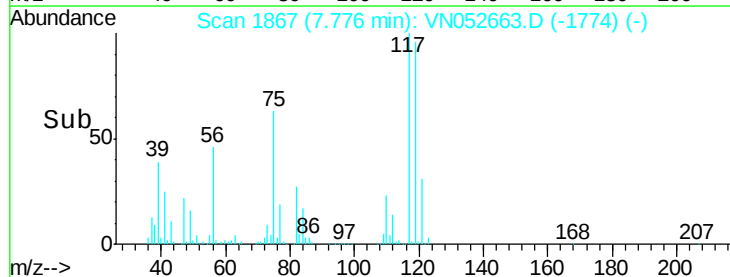
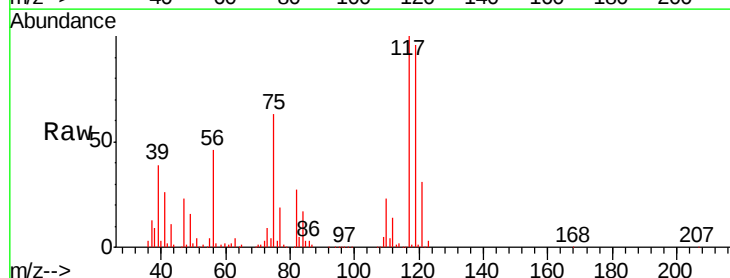
Manual Integrations
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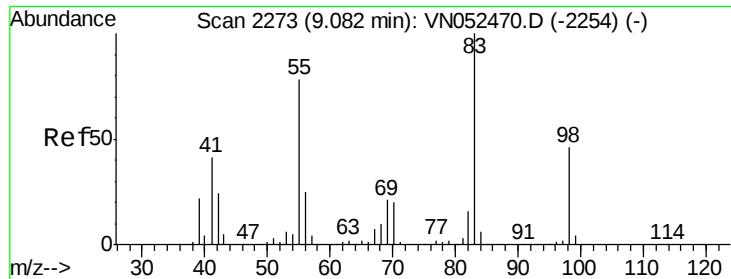
MMDadoda
12/5/2018 9:13:15 AM



#38
Carbon Tetrachloride
Concen: 48.273 ug/l
RT: 7.78 min Scan# 1867
Delta R.T. -0.00 min
Lab File: VN052663.D
Acq: 4 Dec 2018 19:08

Tgt Ion: 117 Resp: 631917
Ion Ratio Lower Upper
117 100
119 96.7 76.8 115.2
121 30.9 24.9 37.3





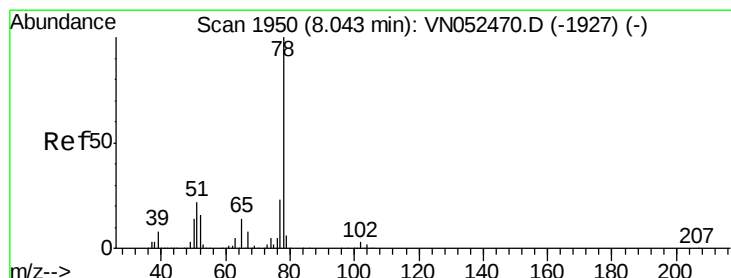
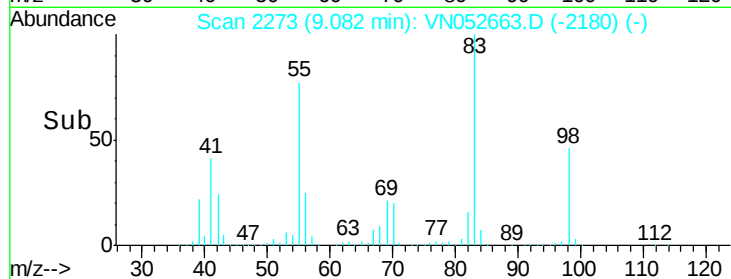
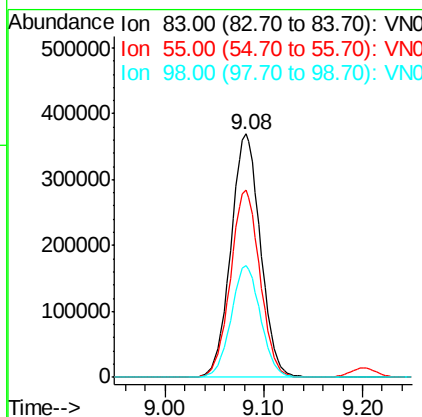
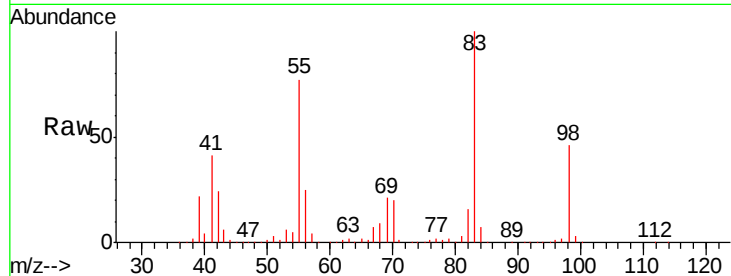
#39
Methylcyclohexane
Concen: 43.785 ug/l
RT: 9.08 min Scan# 2273
Delta R.T. -0.00 min
Lab File: VN052663.D
Acq: 4 Dec 2018 19:08

Instrument :
MSVOA_N
ClientSampleId :
VSTDCCC050EC

Tgt Ion	Ratio	Resp Lower	Resp Upper
83	100		
55	76.9	62.2	93.2
98	46.0	36.4	54.6

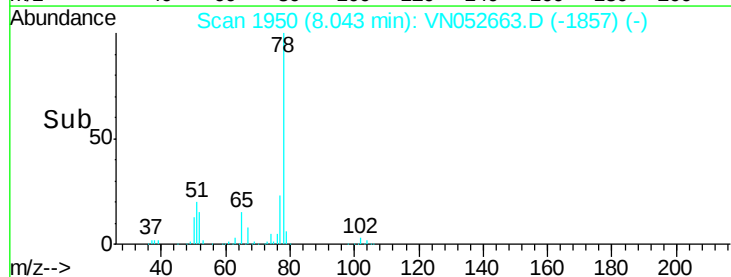
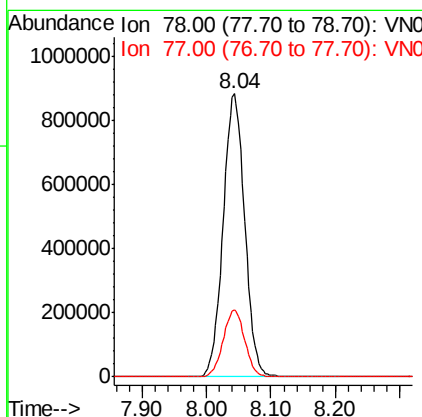
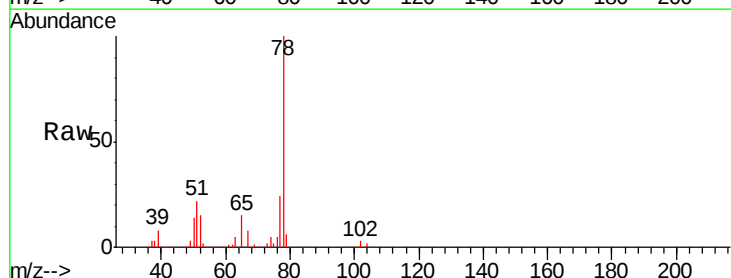
Manual Integrations
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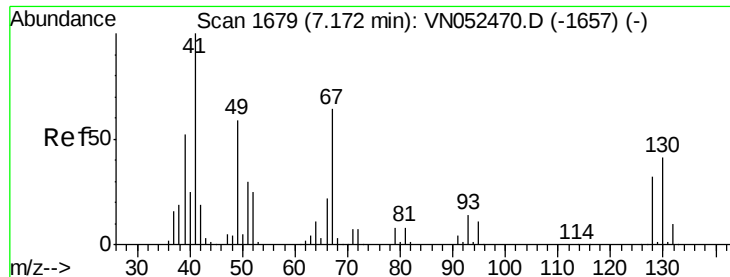
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#40
Benzene
Concen: 47.774 ug/l
RT: 8.04 min Scan# 1950
Delta R.T. -0.00 min
Lab File: VN052663.D
Acq: 4 Dec 2018 19:08

Tgt Ion	Ratio	Resp Lower	Resp Upper
78	100		
77	23.7	18.8	28.2





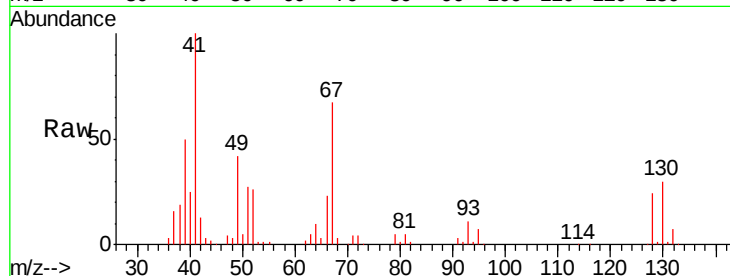
#41
Methacrylonitrile
Concen: 52.909 ug/l
RT: 7.17 min Scan# 1678
Delta R.T. -0.00 min
Lab File: VN052663.D
Acq: 4 Dec 2018 19:08

Instrument :
MSVOA_N
ClientSampleId :
VSTDCCC050EC

Tgt Ion	Ratio	Lower	Upper
41	100		
39	54.9	50.9	76.3
67	78.6	63.6	95.4
52	31.3	24.4	36.6

Manual Integrations
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MMDadoda
12/5/2018 9:13:15 AM



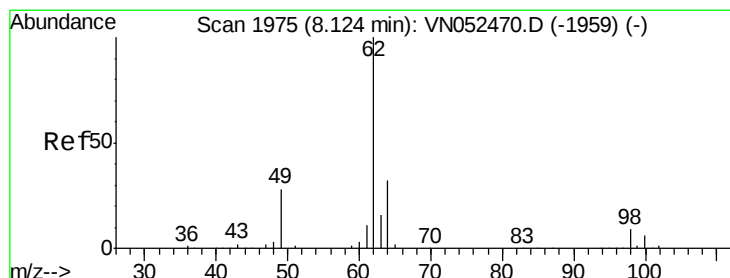
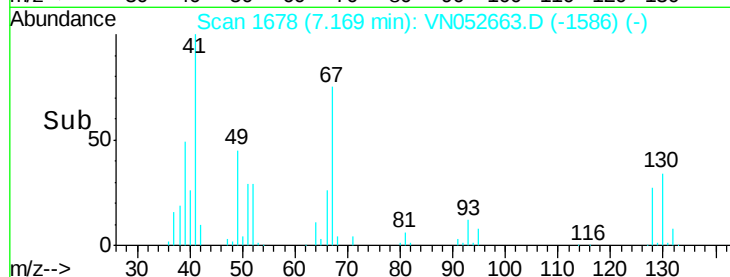
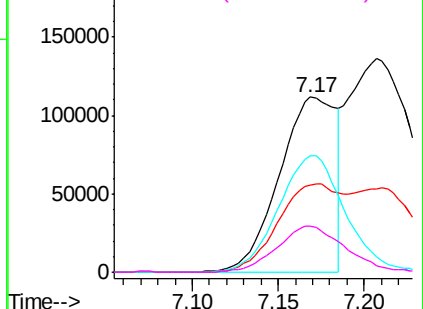
Abundance

Ion 41.00 (40.70 to 41.70): VN0

Ion 39.00 (38.70 to 39.70): VN0

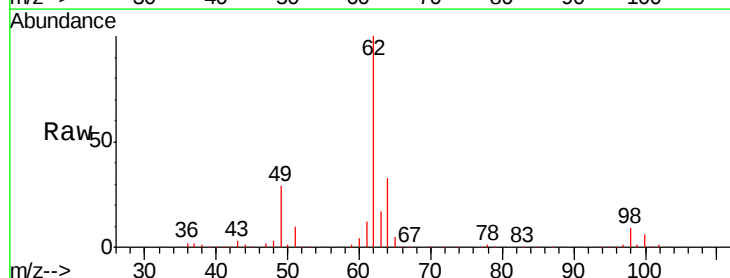
Ion 67.00 (66.70 to 67.70): VN0

Ion 52.00 (51.70 to 52.70): VN0



#42
1,2-Dichloroethane
Concen: 49.394 ug/l
RT: 8.12 min Scan# 1975
Delta R.T. -0.00 min
Lab File: VN052663.D
Acq: 4 Dec 2018 19:08

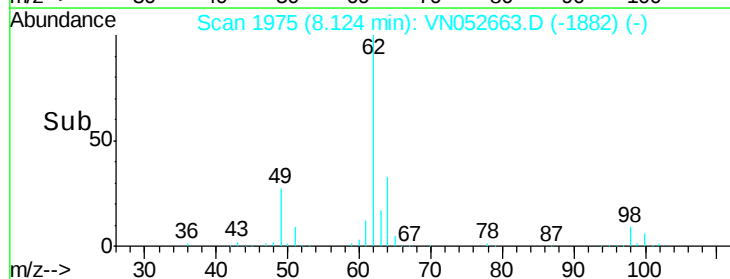
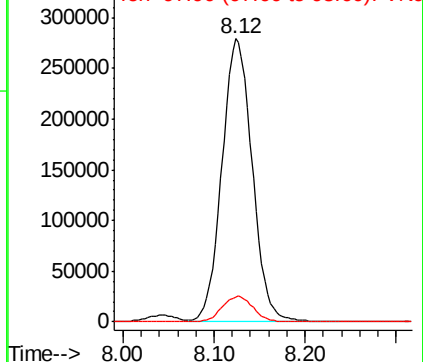
Tgt Ion	Ratio	Lower	Upper
62	100		
98	9.3	0.0	18.6

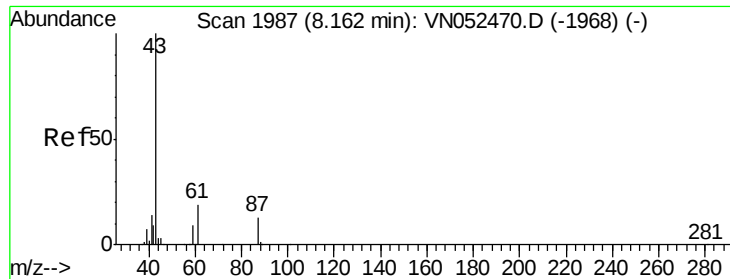


Abundance

Ion 61.90 (61.60 to 62.60): VN0

Ion 97.90 (97.60 to 98.60): VN0





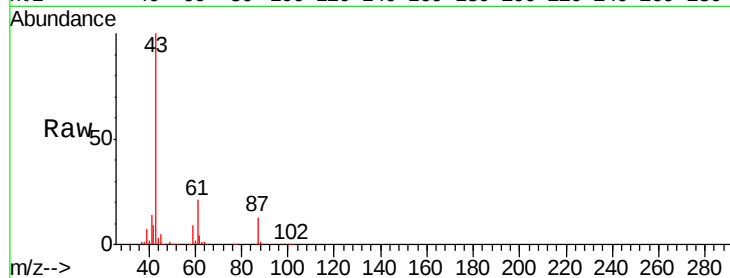
#43
Isopropyl Acetate
Concen: 54.705 ug/l
RT: 8.17 min Scan# 1988
Delta R.T. 0.00 min
Lab File: VN052663.D
Acq: 4 Dec 2018 19:08

Instrument :
MSVOA_N
ClientSampleId :
VSTDCCC050EC

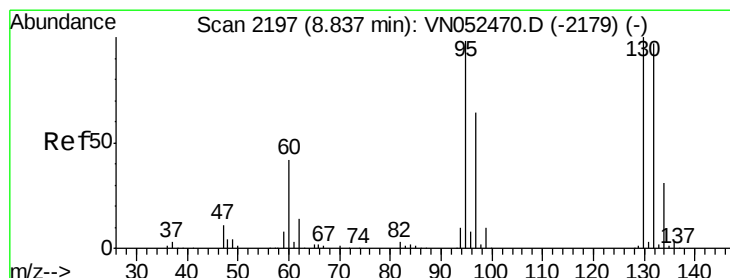
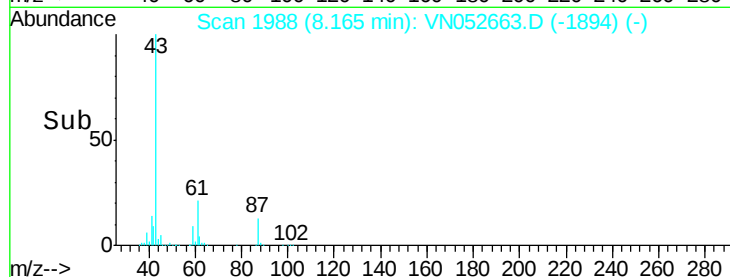
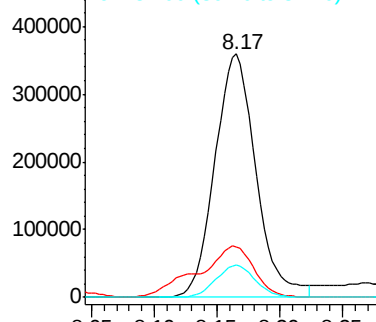
Tgt Ion	Ratio	Lower	Upper
43	100		
61	28.2	24.1	36.1
87	12.6	10.6	15.8

Manual Integrations
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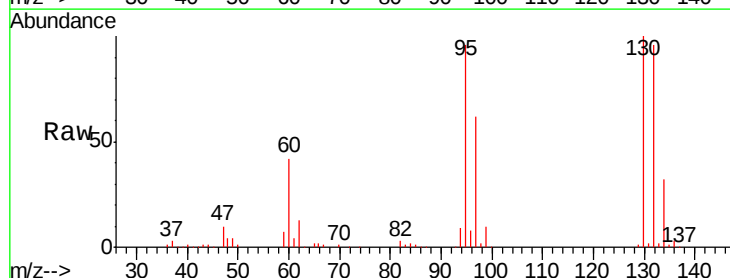


Abundance Ion 43.00 (42.70 to 43.70): VN052470.D (-1968) (-)

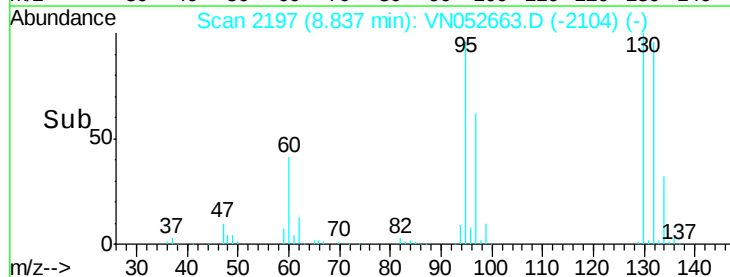
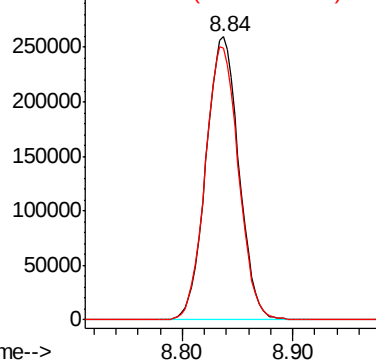


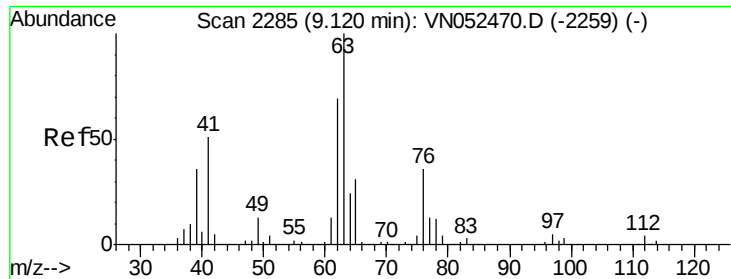
#44
Trichloroethene
Concen: 48.618 ug/l
RT: 8.84 min Scan# 2197
Delta R.T. -0.00 min
Lab File: VN052663.D
Acq: 4 Dec 2018 19:08

Tgt Ion	Ratio	Lower	Upper
130	100		
95	96.0	0.0	195.6



Abundance Ion 129.80 (129.50 to 130.50): VN052470.D (-2179) (-)





#45

1,2-Dichloropropane

Concen: 48.498 ug/l

RT: 9.12 min Scan# 2285

Delta R.T. -0.00 min

Lab File: VN052663.D

Acq: 4 Dec 2018 19:08

Instrument :

MSVOA_N

ClientSampleId :

VSTDCCC050EC

Tgt Ion: 63 Resp: 555652

Ion Ratio Lower Upper

63 100

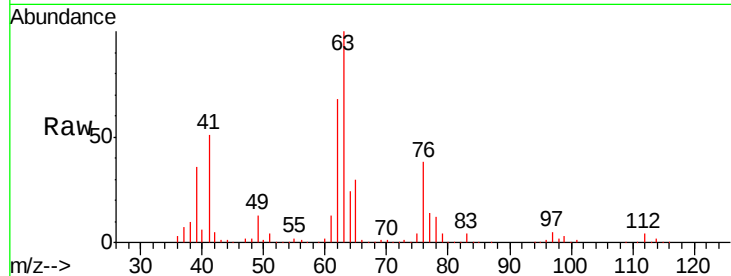
65 30.4 25.0 37.6

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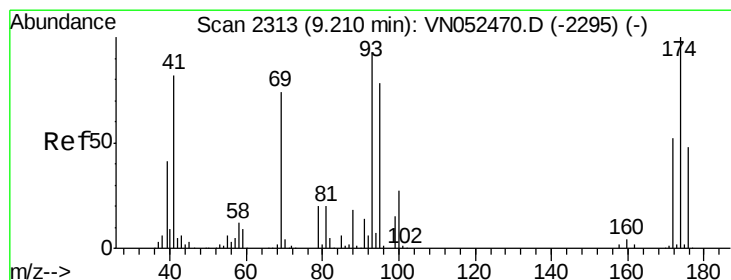
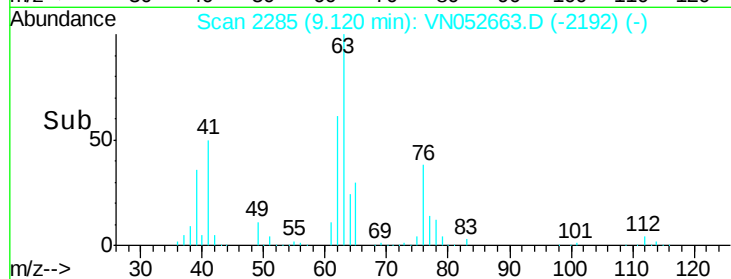
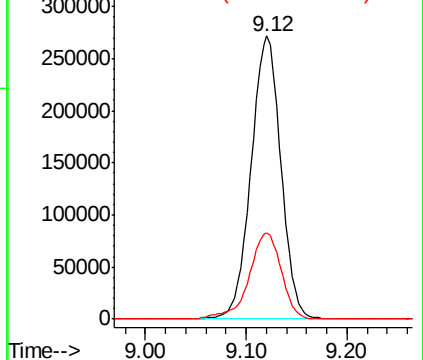
MMDadoda

12/5/2018 9:13:15 AM



Abundance Ion 62.90 (62.60 to 63.60): VN0

Ion 64.90 (64.60 to 65.60): VN0



#46

Dibromomethane

Concen: 50.386 ug/l

RT: 9.21 min Scan# 2313

Delta R.T. -0.00 min

Lab File: VN052663.D

Acq: 4 Dec 2018 19:08

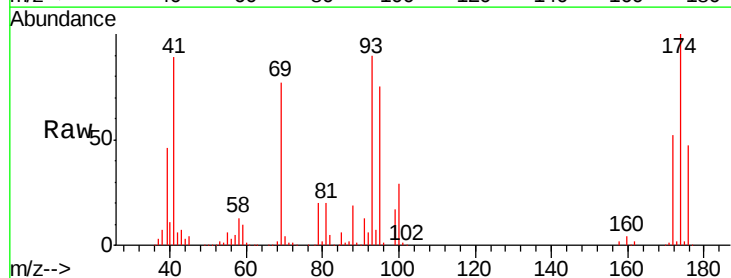
Tgt Ion: 93 Resp: 319573

Ion Ratio Lower Upper

93 100

95 82.9 67.1 100.7

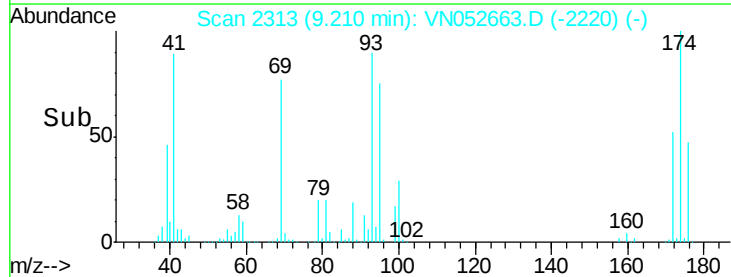
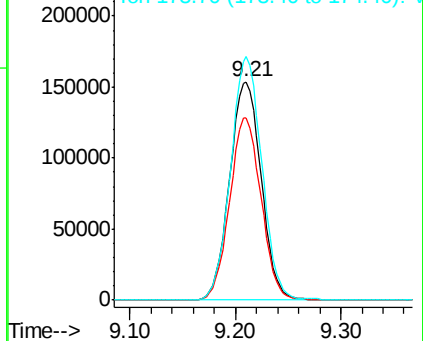
174 110.2 85.8 128.8

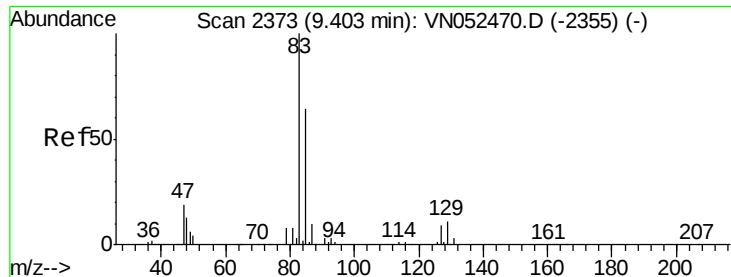


Abundance Ion 92.80 (92.50 to 93.50): VN0

Ion 94.80 (94.50 to 95.50): VN0

Ion 173.70 (173.40 to 174.40): V





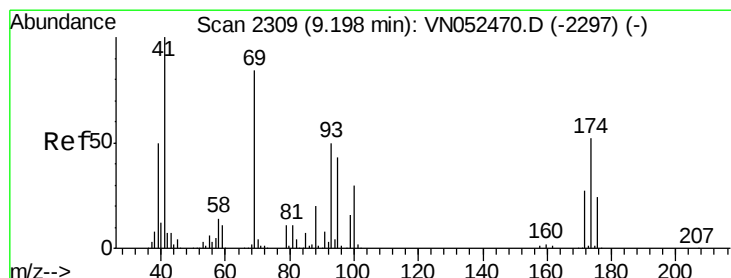
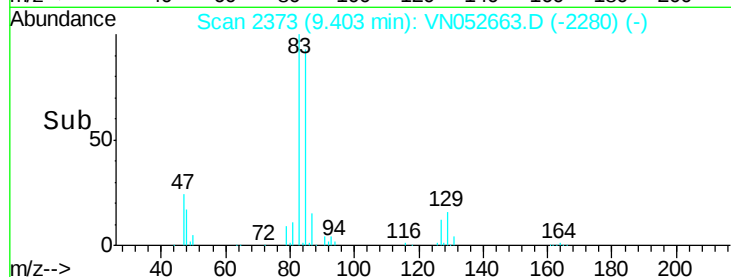
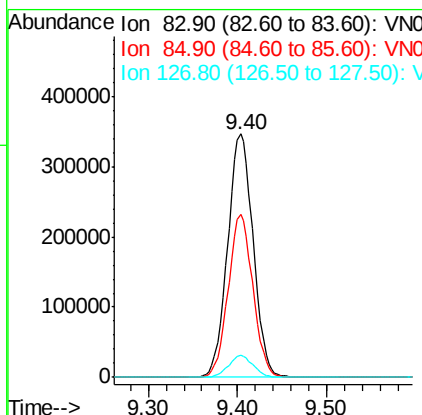
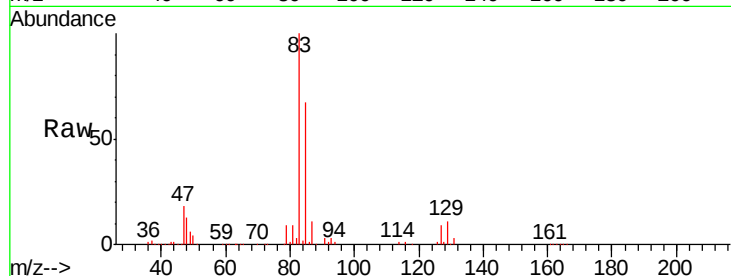
#47
Bromodichloromethane
Concen: 49.628 ug/l
RT: 9.40 min Scan# 2373
Delta R.T. -0.00 min
Lab File: VN052663.D
Acq: 4 Dec 2018 19:08

Instrument :
MSVOA_N
ClientSampleId :
VSTDCCC050EC

Tgt Ion	Ratio	Lower	Upper
83	100		
85	67.1	51.3	76.9
127	8.9	6.9	10.3

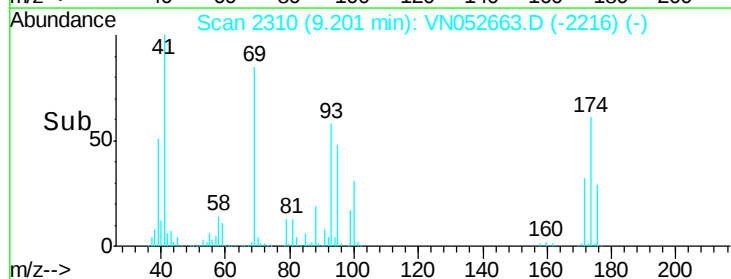
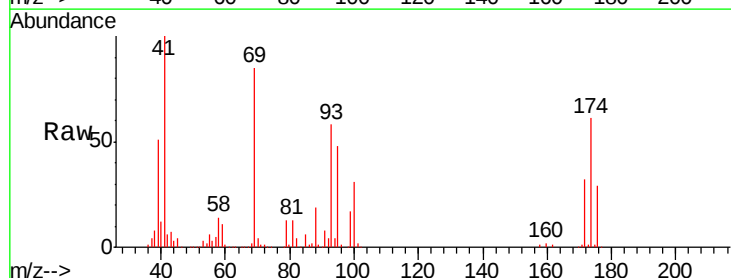
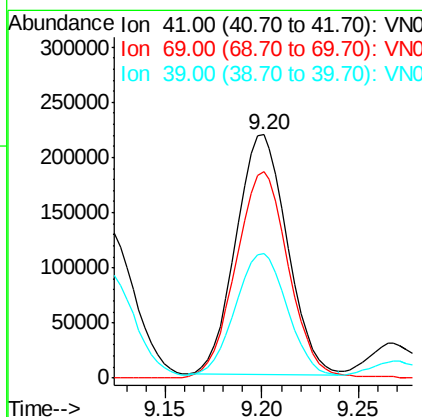
Manual Integrations
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#48
Methyl methacrylate
Concen: 51.532 ug/l
RT: 9.20 min Scan# 2310
Delta R.T. 0.00 min
Lab File: VN052663.D
Acq: 4 Dec 2018 19:08

Tgt Ion	Ratio	Lower	Upper
41	100		
69	88.9	70.0	105.0
39	53.6	42.6	64.0





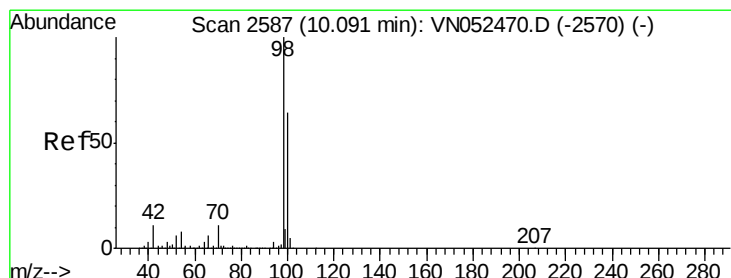
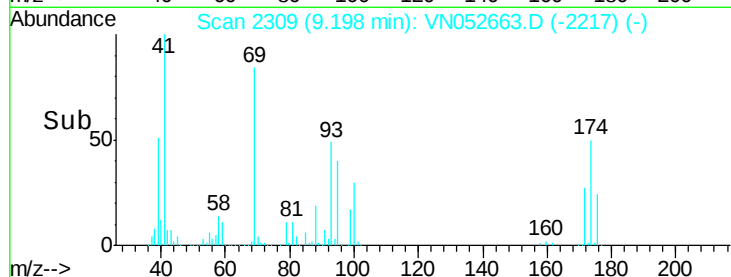
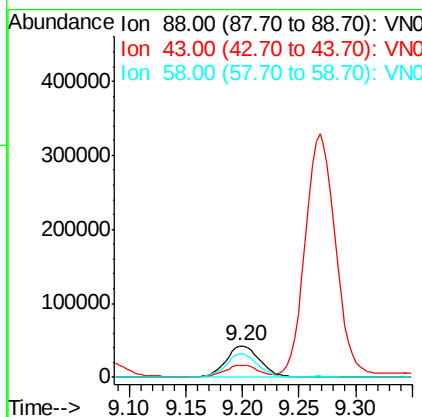
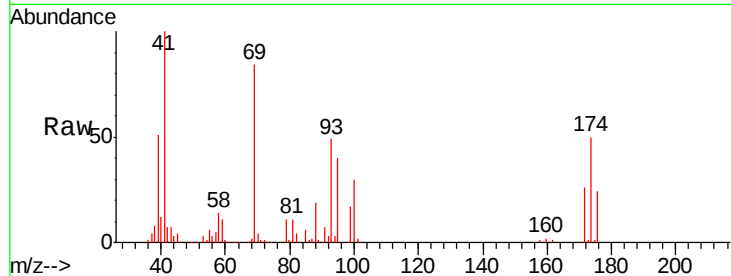
#49
1,4-Dioxane
Concen: 1105.576 ug/l
RT: 9.20 min Scan# 2309
Delta R.T. -0.00 min
Lab File: VN052663.D
Acq: 4 Dec 2018 19:08

Instrument :
MSVOA_N
ClientSampleId :
VSTDCCC050EC

Tgt Ion	Ratio	Lower	Upper
88	100		
43	33.9	26.4	39.6
58	70.4	55.4	83.0

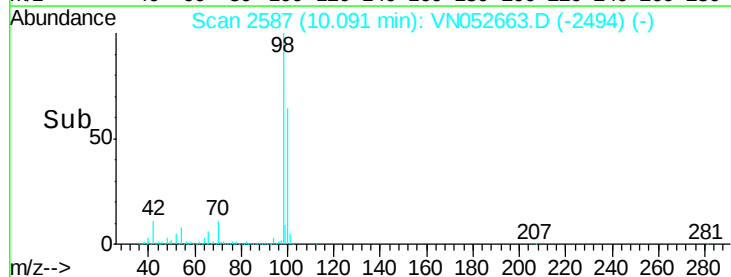
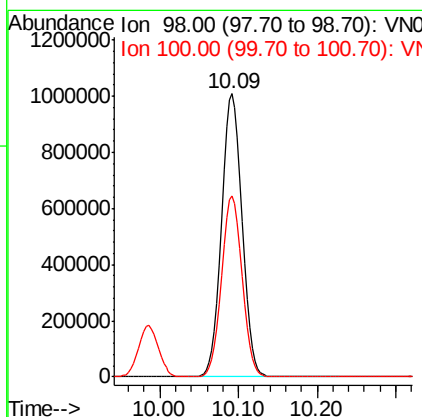
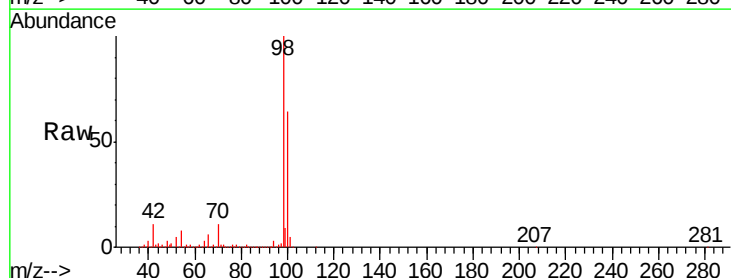
Manual Integrations
APPROVED

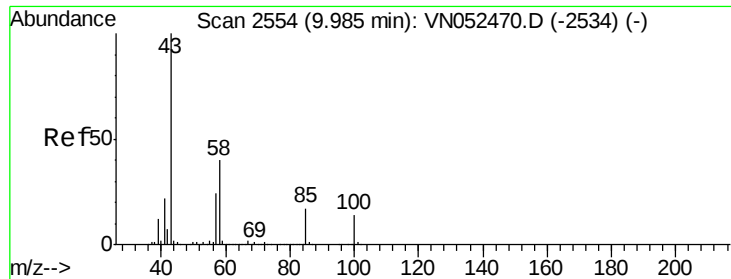
MMDadoda
12/5/2018 9:13:15 AM



#50
Toluene-d8
Concen: 1105.576 ug/l
RT: 10.09 min Scan# 2587
Delta R.T. -0.00 min
Lab File: VN052663.D
Acq: 4 Dec 2018 19:08

Tgt Ion	Ratio	Lower	Upper
98	100		
100	63.8	51.3	76.9





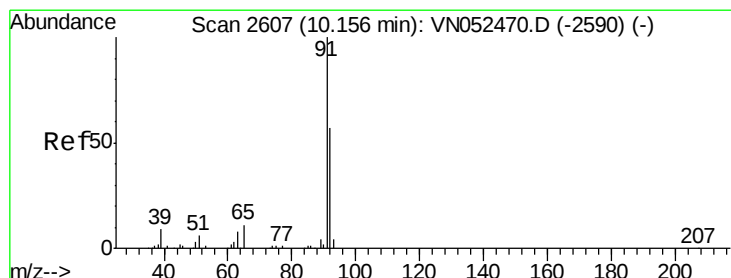
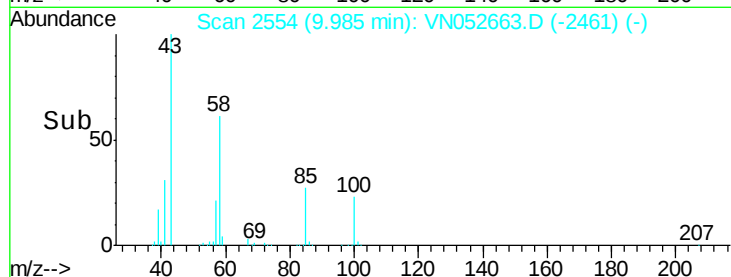
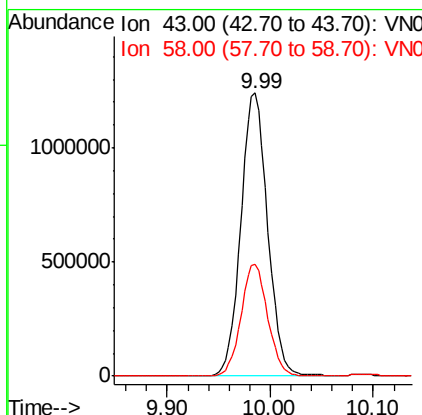
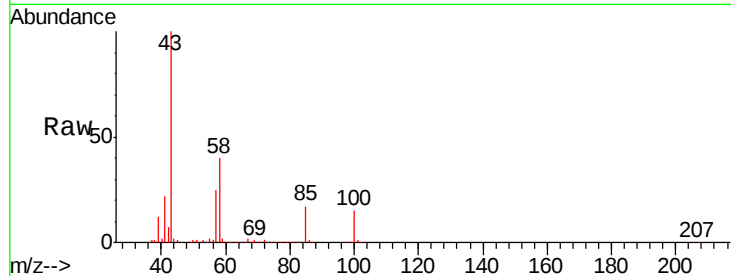
#51
 4-Methyl-2-Pentanone
 Concen: 266.515 ug/l
 RT: 9.99 min Scan# 2554
 Delta R.T. -0.00 min
 Lab File: VN052663.D
 Acq: 4 Dec 2018 19:08

Instrument :
 MSVOA_N
 ClientSampleId :
 VSTDCCC050EC

Tgt Ion: 43 Resp: 2233237
 Ion Ratio Lower Upper
 43 100
 58 39.5 31.5 47.3

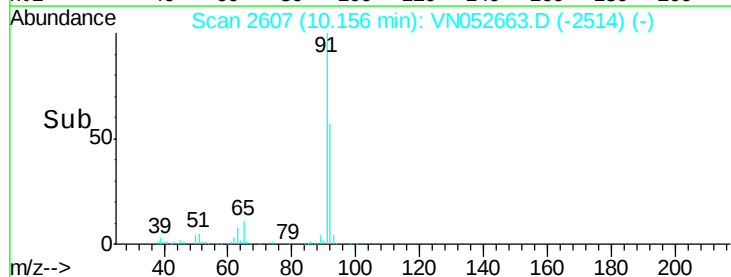
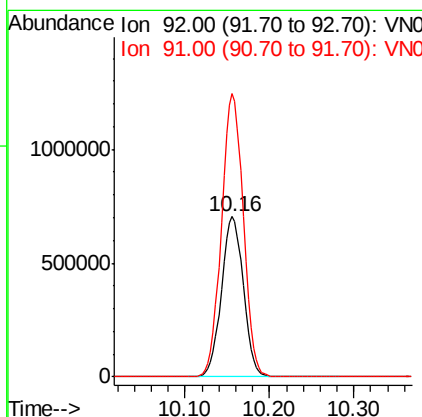
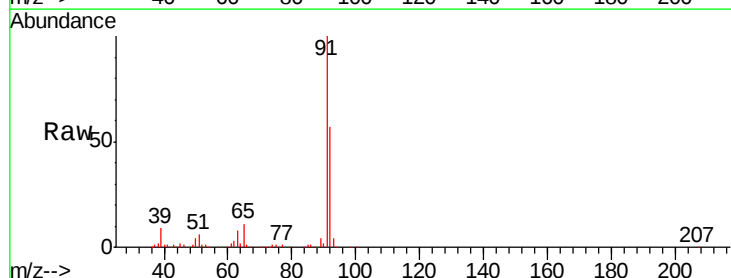
Manual Integrations
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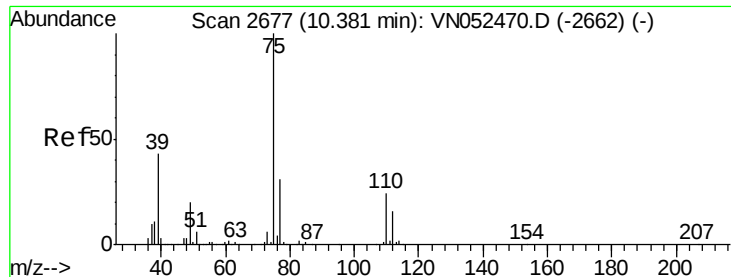
MMDadoda
 12/5/2018 9:13:15 AM



#52
 Toluene
 Concen: 49.566 ug/l
 RT: 10.16 min Scan# 2607
 Delta R.T. -0.00 min
 Lab File: VN052663.D
 Acq: 4 Dec 2018 19:08

Tgt Ion: 92 Resp: 1269105
 Ion Ratio Lower Upper
 92 100
 91 175.8 141.0 211.4





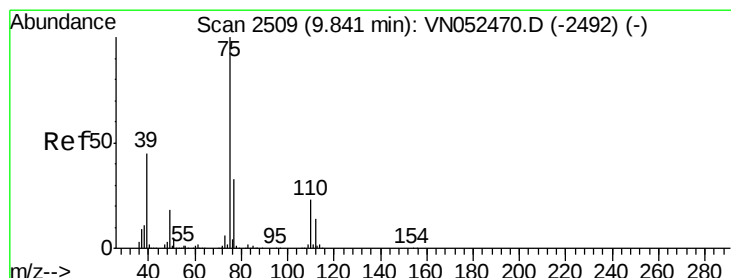
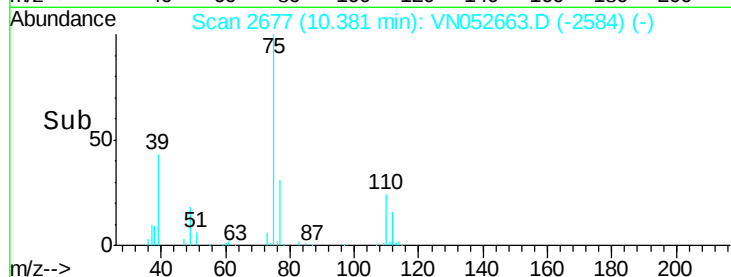
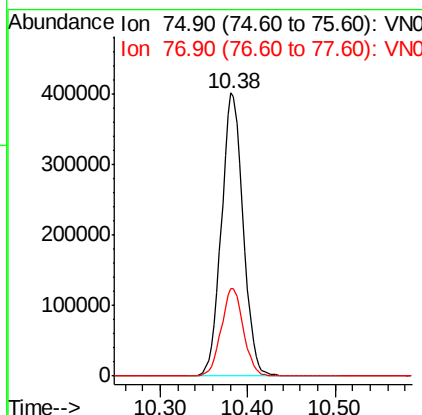
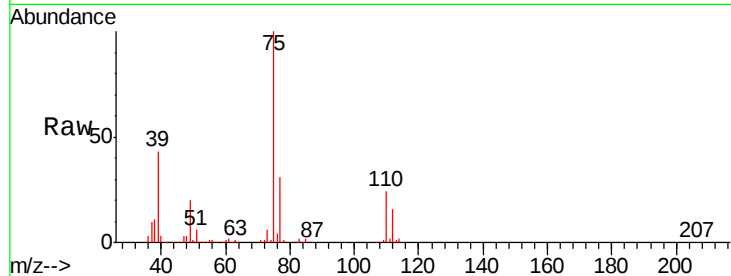
#53
t-1,3-Dichloropropene
Concen: 52.065 ug/l
RT: 10.38 min Scan# 2677
Delta R.T. -0.00 min
Lab File: VN052663.D
Acq: 4 Dec 2018 19:08

Instrument :
MSVOA_N
ClientSampleId :
VSTDCCC050EC

Tgt Ion: 75 Resp: 690699
Ion Ratio Lower Upper
75 100
77 31.0 25.0 37.4

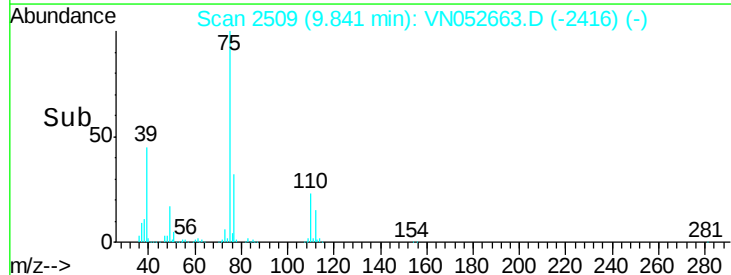
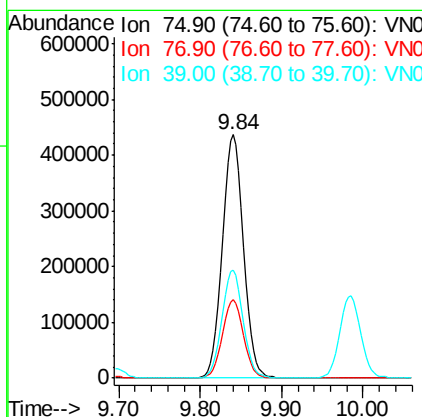
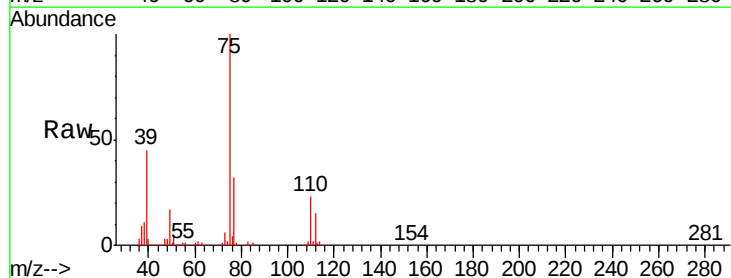
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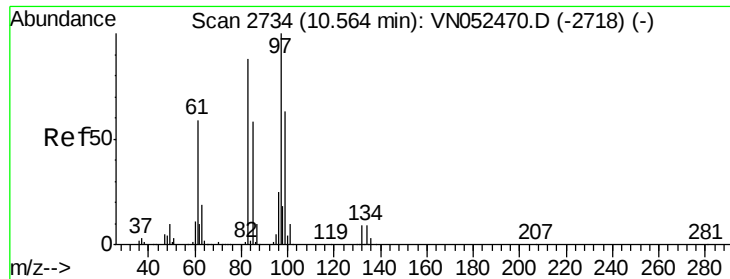
MMDadoda
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#54
cis-1,3-Dichloropropene
Concen: 50.676 ug/l
RT: 9.84 min Scan# 2509
Delta R.T. -0.00 min
Lab File: VN052663.D
Acq: 4 Dec 2018 19:08

Tgt Ion: 75 Resp: 805641
Ion Ratio Lower Upper
75 100
77 32.0 26.2 39.2
39 44.5 36.0 54.0





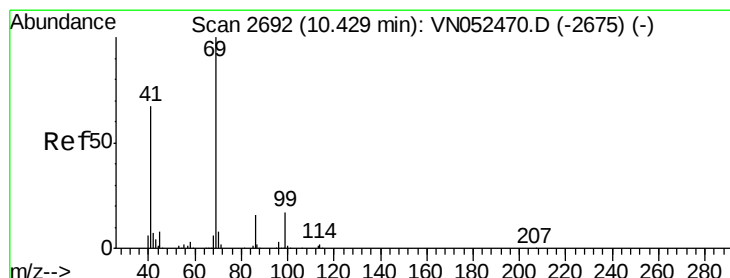
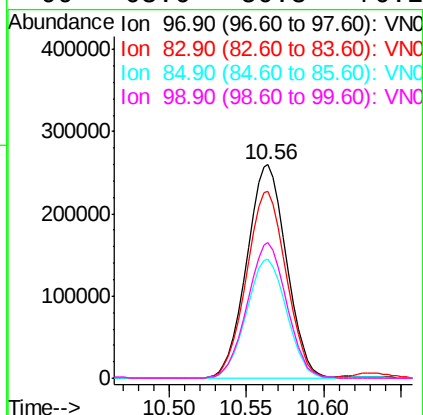
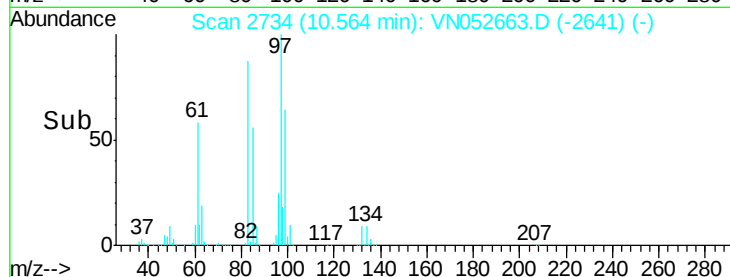
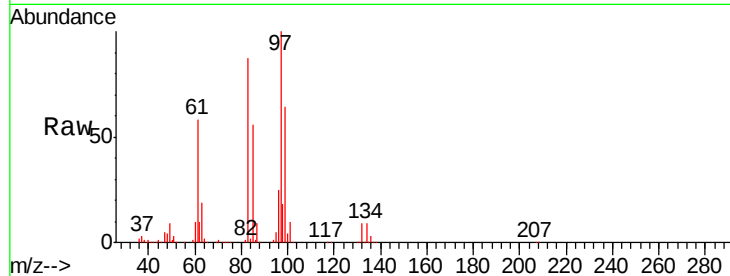
#55
 1,1,2-Trichloroethane
 Concen: 51.673 ug/l
 RT: 10.56 min Scan# 2734
 Delta R.T. -0.00 min
 Lab File: VN052663.D
 Acq: 4 Dec 2018 19:08

Instrument :
 MSVOA_N
 ClientSampleId :
 VSTDCCC050EC

Tgt Ion	Ratio	Lower	Upper
97	100		
83	87.5	70.7	106.1
85	55.5	46.1	69.1
99	63.6	50.8	76.2

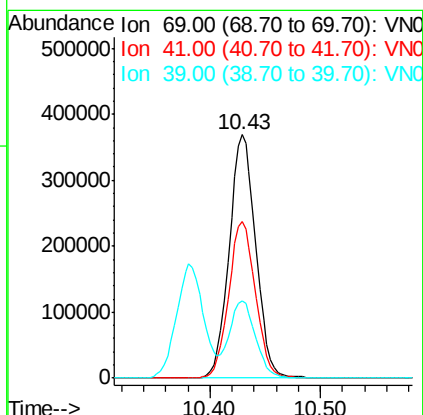
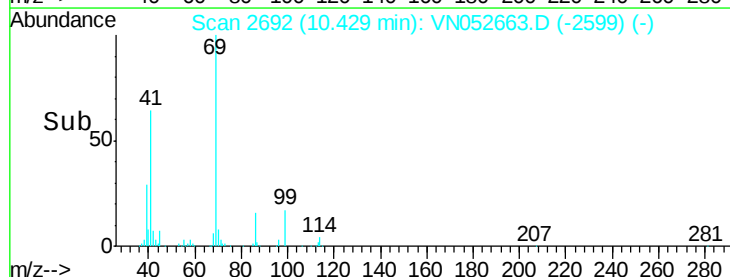
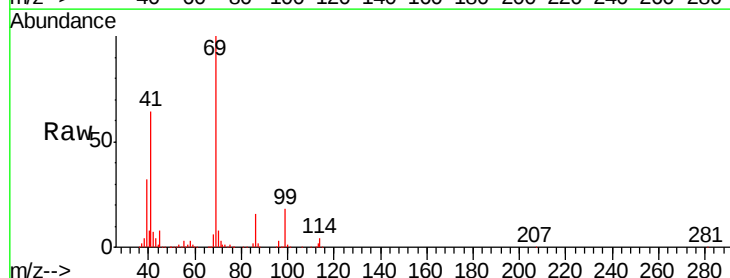
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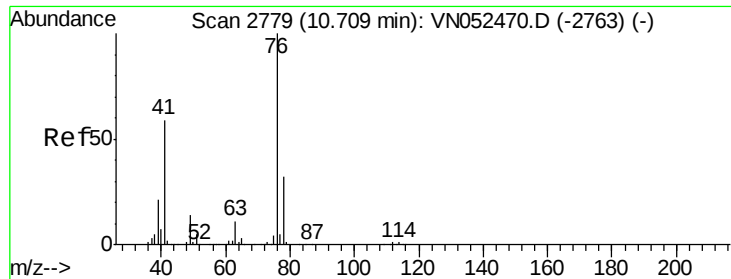
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#56
 Ethyl methacrylate
 Concen: 49.213 ug/l
 RT: 10.43 min Scan# 2692
 Delta R.T. -0.00 min
 Lab File: VN052663.D
 Acq: 4 Dec 2018 19:08

Tgt Ion	Ratio	Lower	Upper
69	100		
41	64.3	52.6	79.0
39	31.8	25.9	38.9





#57

1,3-Dichloropropane

Concen: 49.865 ug/l

RT: 10.71 min Scan# 2779

Delta R.T. -0.00 min

Lab File: VN052663.D

Acq: 4 Dec 2018 19:08

Instrument :

MSVOA_N

ClientSampleId :

VSTDCCC050EC

Tgt Ion: 76 Resp: 793001

Ion Ratio Lower Upper

76 100

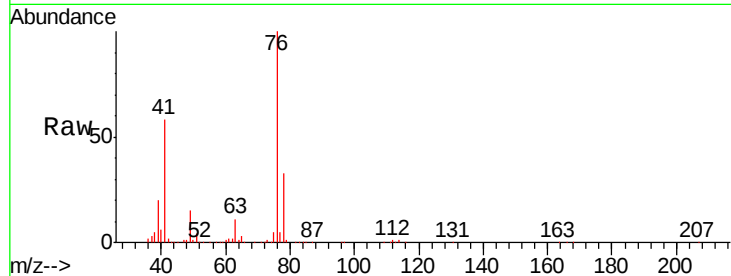
78 32.5 25.6 38.4

Manual Integrations

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MMDadoda

12/5/2018 9:13:15 AM



Abundance Ion 75.90 (75.60 to 76.60): VN0

Ion 77.90 (77.60 to 78.60): VN0

10.71

400000

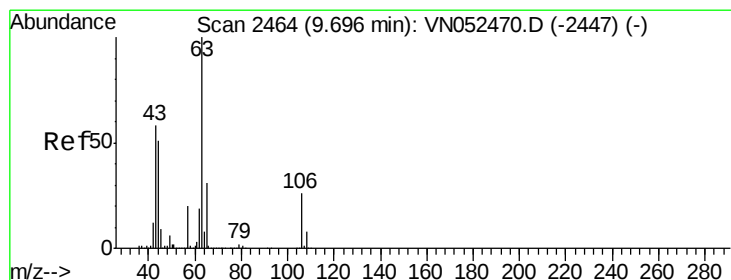
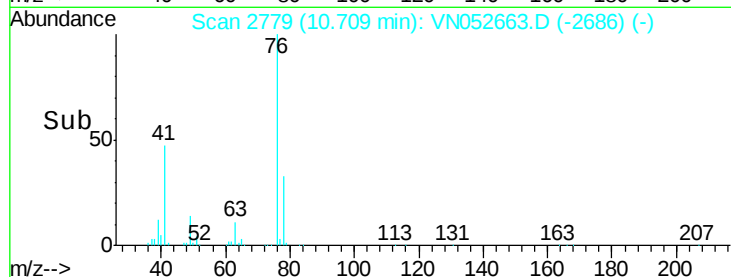
300000

200000

100000

0

Time--> 10.60 10.70 10.80



#58

2-Chloroethyl Vinyl ether

Concen: 259.173 ug/l

RT: 9.70 min Scan# 2464

Delta R.T. -0.00 min

Lab File: VN052663.D

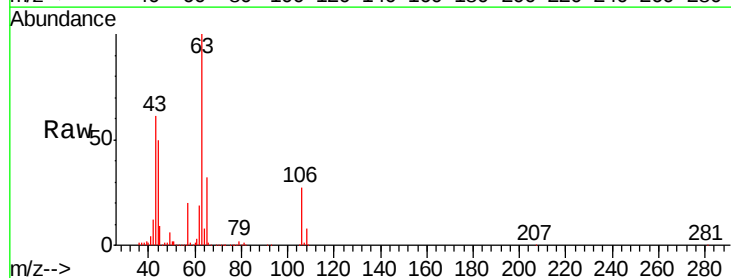
Acq: 4 Dec 2018 19:08

Tgt Ion: 63 Resp: 1693774

Ion Ratio Lower Upper

63 100

106 26.5 20.6 30.8



Abundance Ion 62.90 (62.60 to 63.60): VN0

Ion 105.90 (105.60 to 106.60): V

9.70

1000000

800000

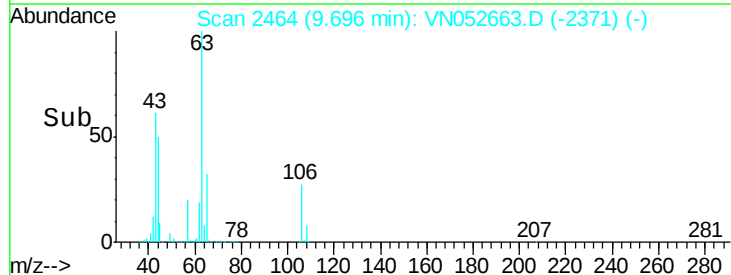
600000

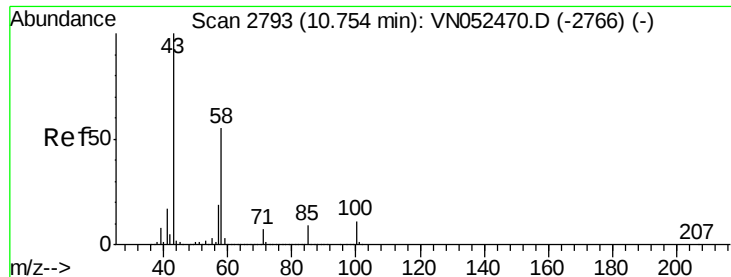
400000

200000

0

Time--> 9.60 9.70 9.80





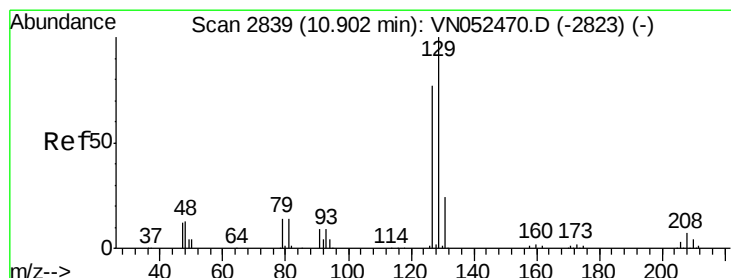
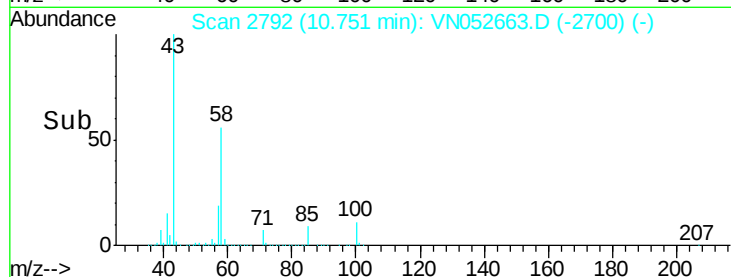
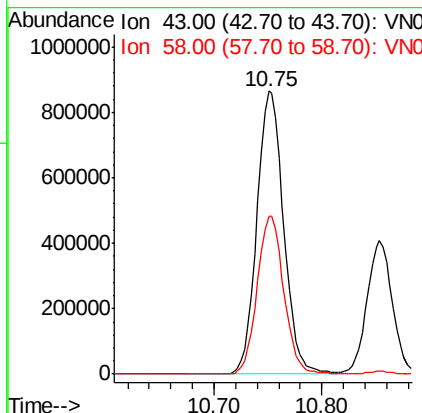
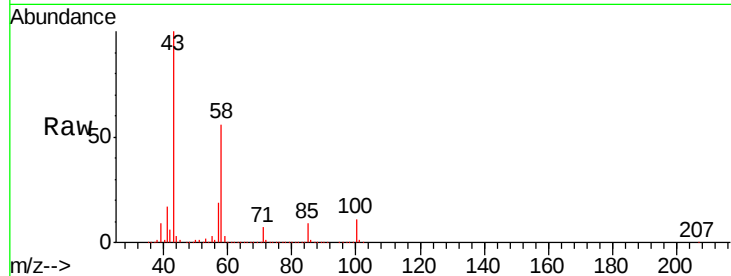
#59
2-Hexanone
Concen: 263.842 ug/l
RT: 10.75 min Scan# 2792
Delta R.T. -0.00 min
Lab File: VN052663.D
Acq: 4 Dec 2018 19:08

Instrument :
MSVOA_N
ClientSampleId :
VSTDCCC050EC

Tgt Ion: 43 Resp: 1483805
Ion Ratio Lower Upper
43 100
58 55.7 27.4 82.0

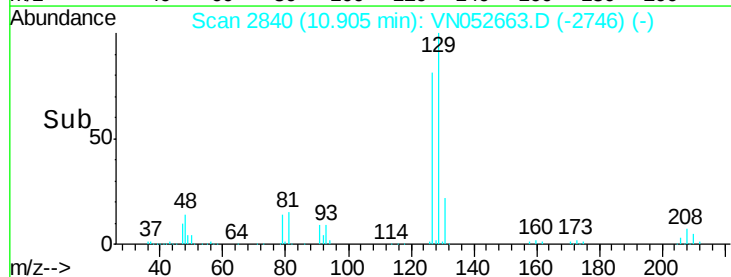
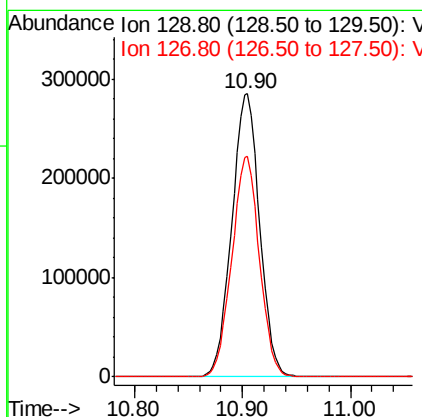
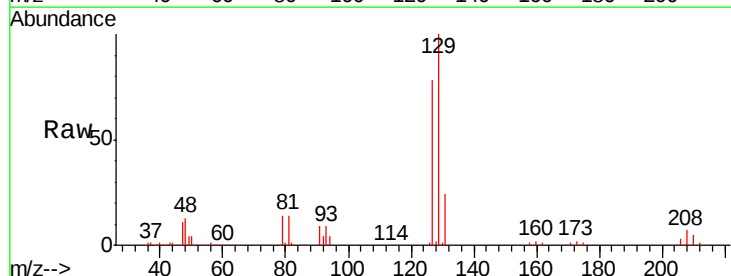
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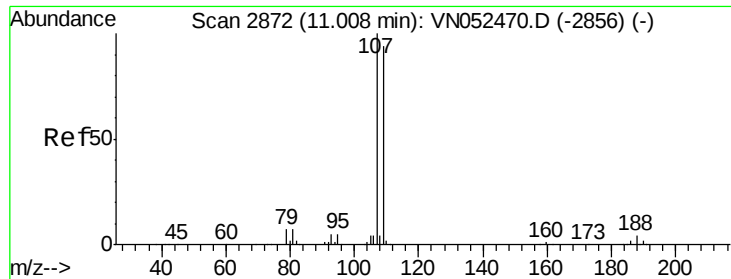
MMDadoda
12/5/2018 9:13:15 AM



#60
Dibromochloromethane
Concen: 52.553 ug/l
RT: 10.90 min Scan# 2840
Delta R.T. 0.00 min
Lab File: VN052663.D
Acq: 4 Dec 2018 19:08

Tgt Ion: 129 Resp: 514074
Ion Ratio Lower Upper
129 100
127 77.0 38.9 116.6





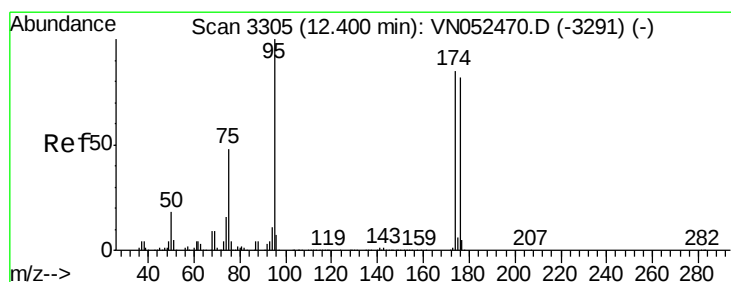
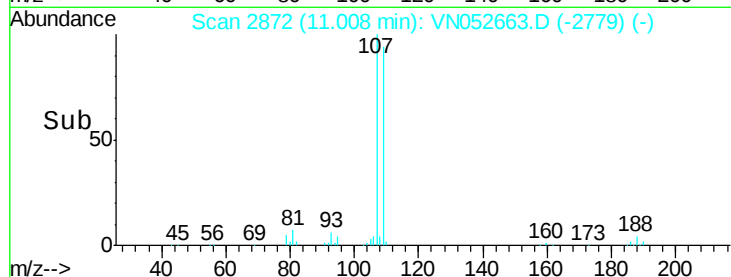
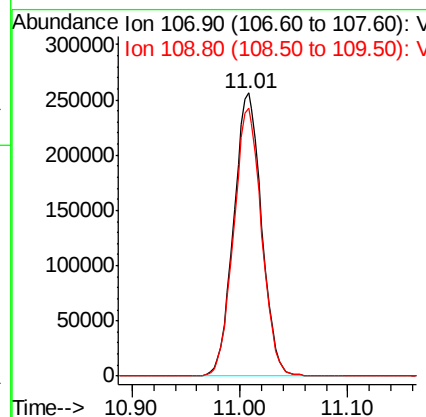
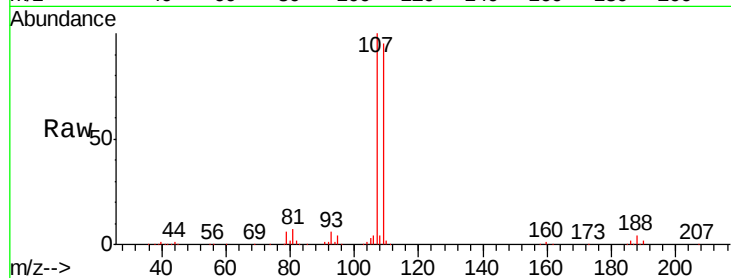
#61
 1,2-Dibromoethane
 Concen: 51.600 ug/l
 RT: 11.01 min Scan# 2872
 Delta R.T. -0.00 min
 Lab File: VN052663.D
 Acq: 4 Dec 2018 19:08

Instrument :
 MSVOA_N
 ClientSampleId :
 VSTDCCC050EC

Tgt Ion: 107 Resp: 461583
 Ion Ratio Lower Upper
 107 100
 109 94.7 75.6 113.4

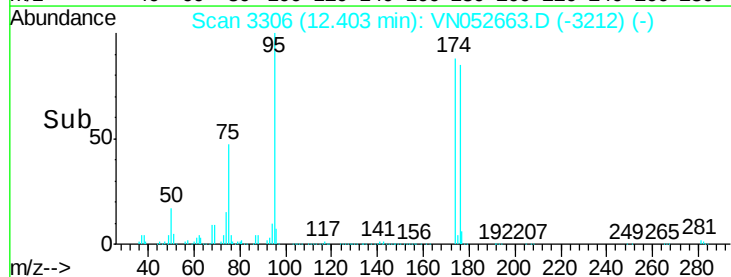
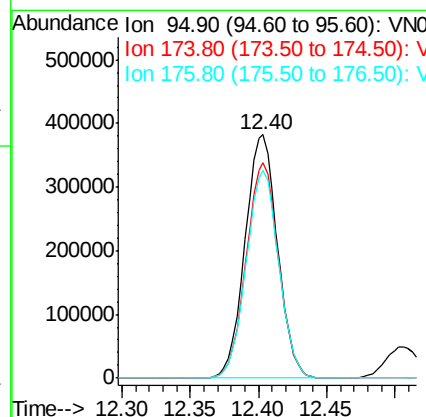
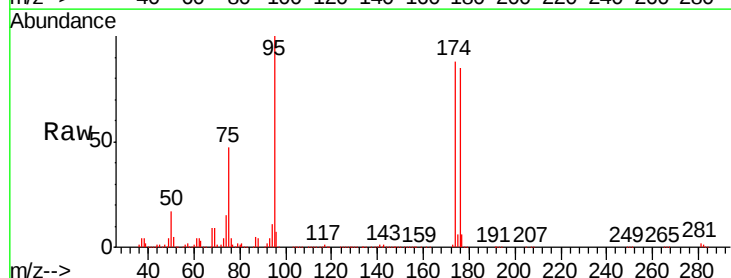
Manual Integrations
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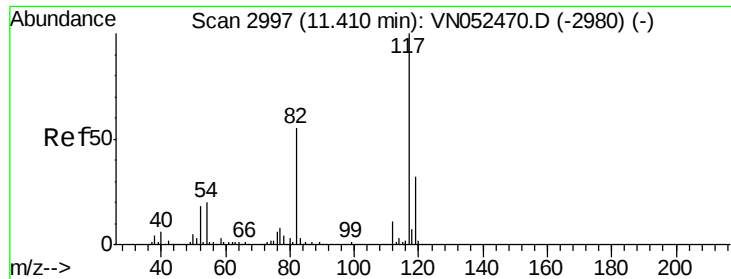
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 12/5/2018 9:13:15 AM



#62
 4-Bromofluorobenzene
 Concen: 51.600 ug/l
 RT: 12.40 min Scan# 3306
 Delta R.T. 0.00 min
 Lab File: VN052663.D
 Acq: 4 Dec 2018 19:08

Tgt Ion: 95 Resp: 630797
 Ion Ratio Lower Upper
 95 100
 174 88.0 0.0 173.0
 176 85.6 0.0 166.2





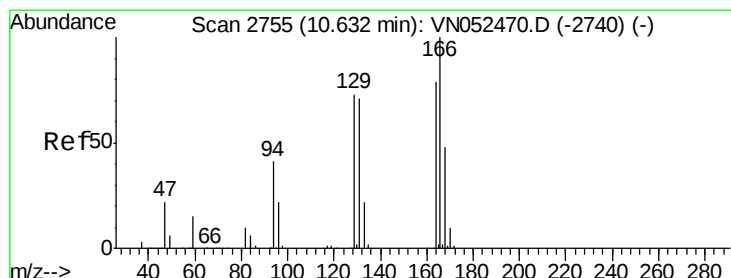
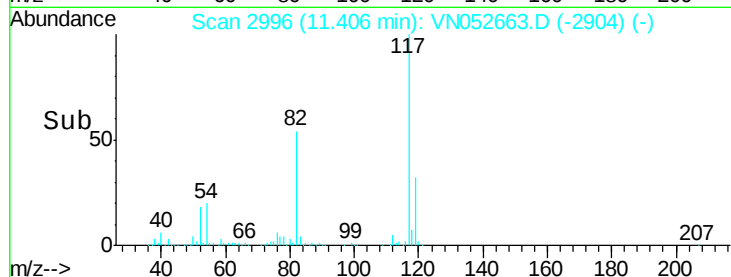
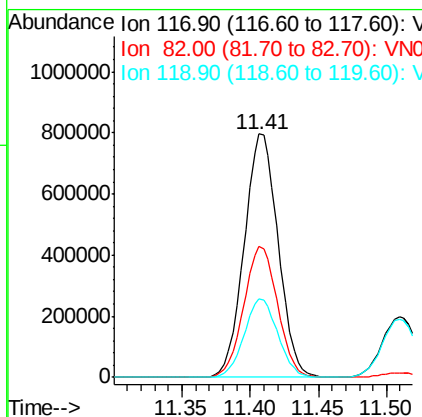
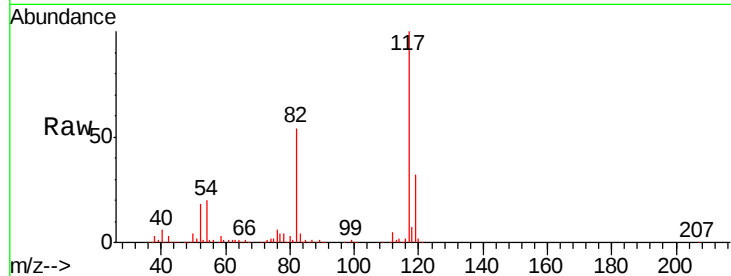
#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.41 min Scan# 2996
Delta R.T. -0.00 min
Lab File: VN052663.D
Acq: 4 Dec 2018 19:08

Instrument :
MSVOA_N
ClientSampleId :
VSTDCCC050EC

Tgt Ion:117 Resp: 1372375
Ion Ratio Lower Upper
117 100
82 53.7 43.6 65.4
119 32.3 25.4 38.2

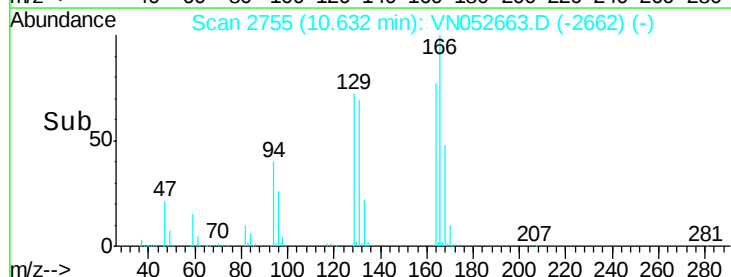
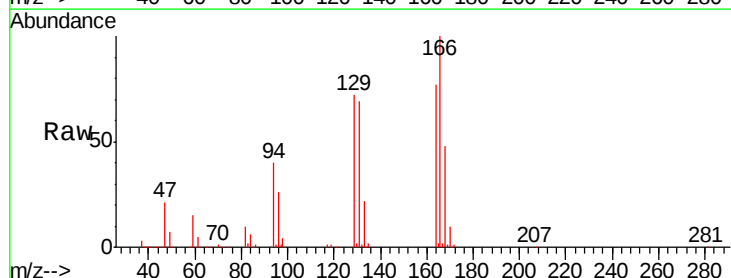
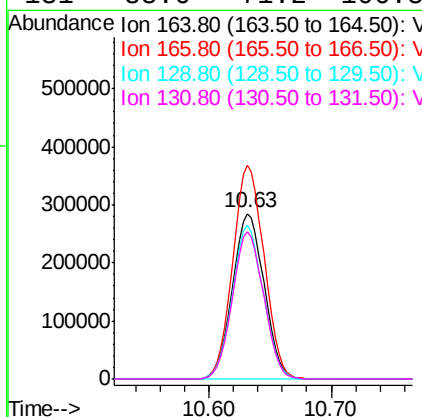
Manual Integrations
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MMDadoda
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#64
Tetrachloroethene
Concen: 48.051 ug/l
RT: 10.63 min Scan# 2755
Delta R.T. -0.00 min
Lab File: VN052663.D
Acq: 4 Dec 2018 19:08

Tgt Ion:164 Resp: 511279
Ion Ratio Lower Upper
164 100
166 129.1 101.0 151.4
129 92.9 73.8 110.6
131 88.6 71.2 106.8





#65

Chlorobenzene

Concen: 49.252 ug/l

RT: 11.43 min Scan# 3004

Delta R.T. -0.00 min

Lab File: VN052663.D

Acq: 4 Dec 2018 19:08

Instrument :

MSVOA_N

ClientSampleId :

VSTDCCC050EC

Tgt Ion:112 Resp: 1393747

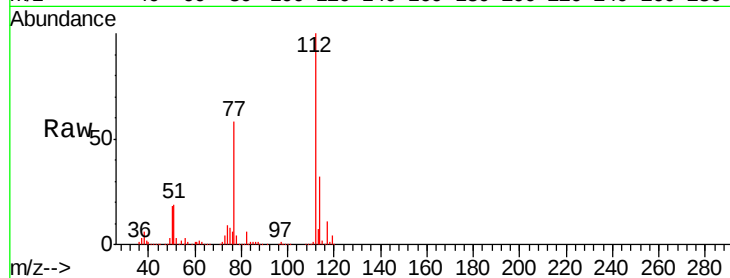
Ion Ratio Lower Upper

112 100

114 31.9 25.8 38.6

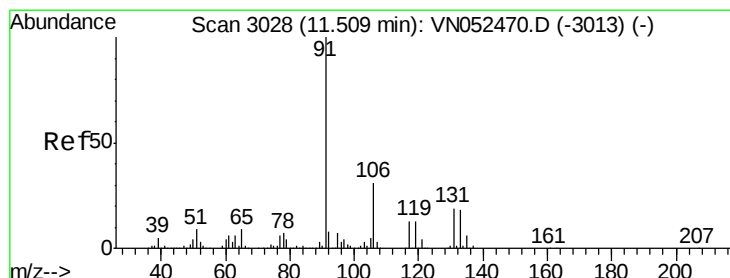
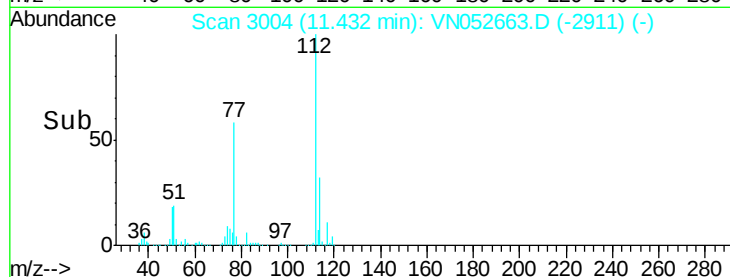
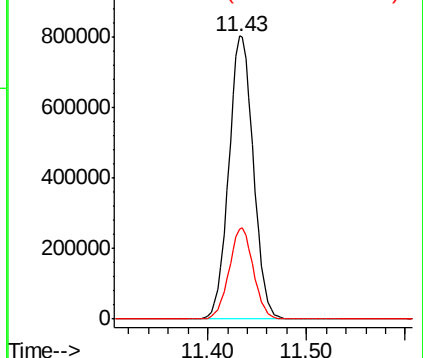
Manual Integrations
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Abundance Ion 111.90 (111.60 to 112.60): V

Ion 113.90 (113.60 to 114.60): V



#66

1,1,1,2-Tetrachloroethane

Concen: 50.893 ug/l

RT: 11.51 min Scan# 3028

Delta R.T. -0.00 min

Lab File: VN052663.D

Acq: 4 Dec 2018 19:08

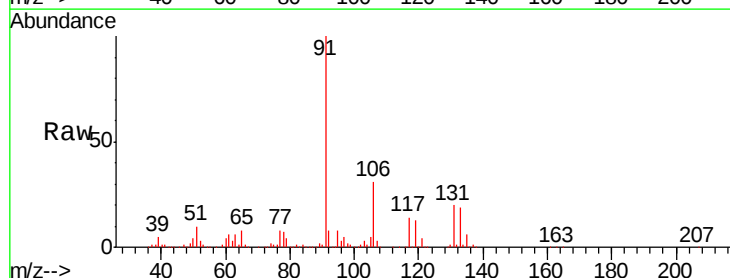
Tgt Ion:131 Resp: 500754

Ion Ratio Lower Upper

131 100

133 95.2 47.6 142.8

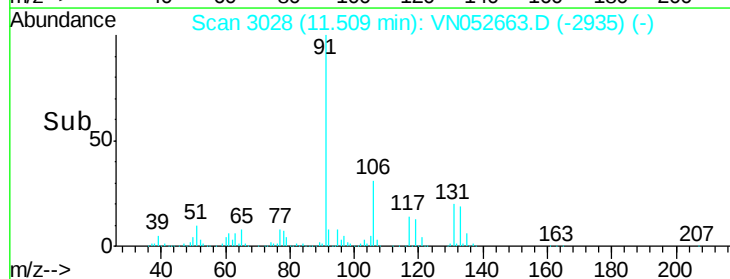
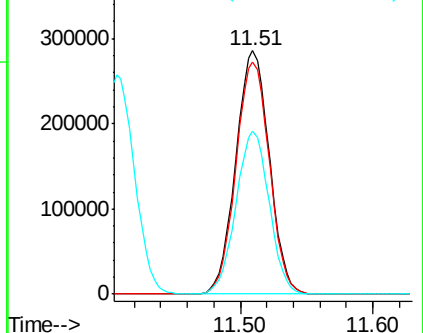
119 66.3 33.2 99.6

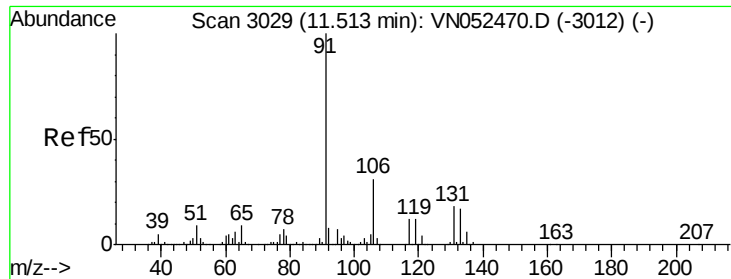


Abundance Ion 130.80 (130.50 to 131.50): V

Ion 132.80 (132.50 to 133.50): V

Ion 118.80 (118.50 to 119.50): V





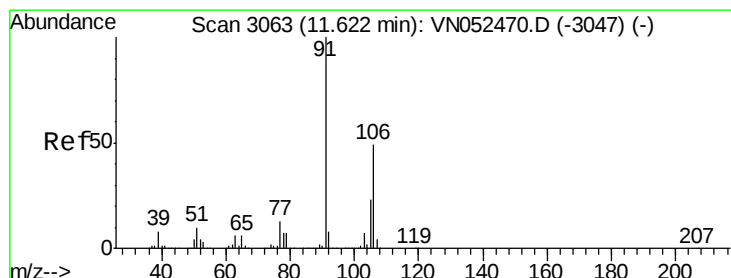
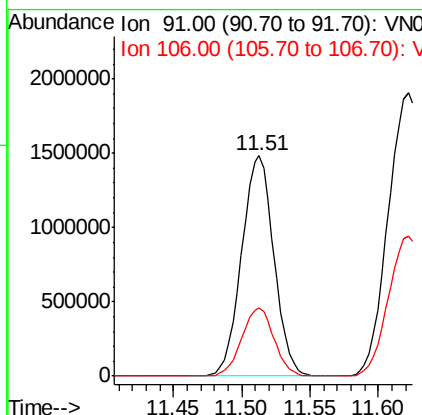
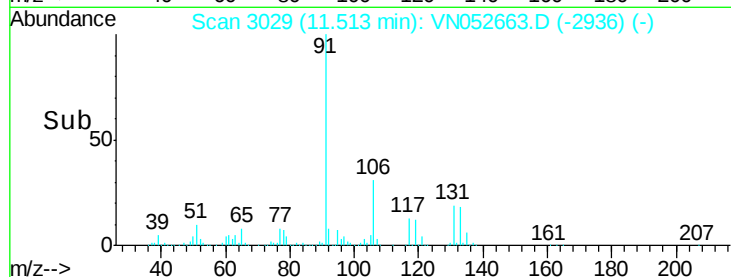
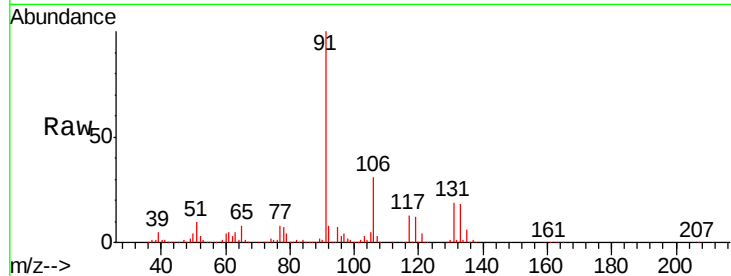
#67
Ethyl Benzene
Concen: 49.084 ug/l
RT: 11.51 min Scan# 3029
Delta R.T. -0.00 min
Lab File: VN052663.D
Acq: 4 Dec 2018 19:08

Instrument :
MSVOA_N
ClientSampleId :
VSTDCCC050EC

Tgt Ion: 91 Resp: 2432391
Ion Ratio Lower Upper
91 100
106 30.9 24.9 37.3

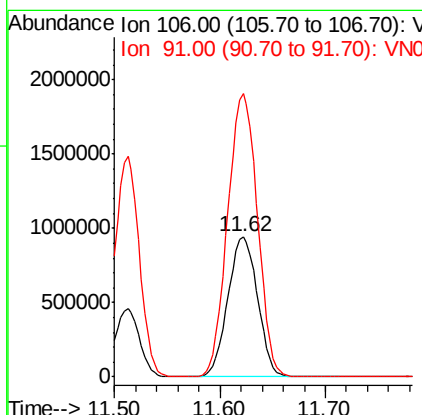
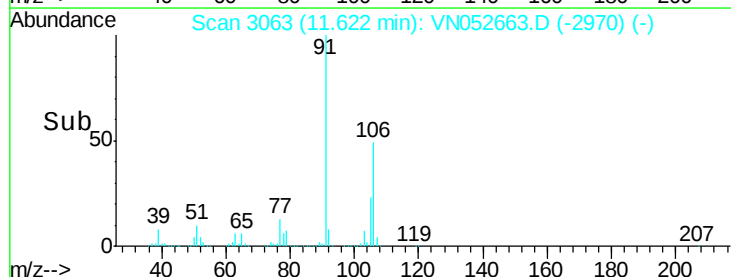
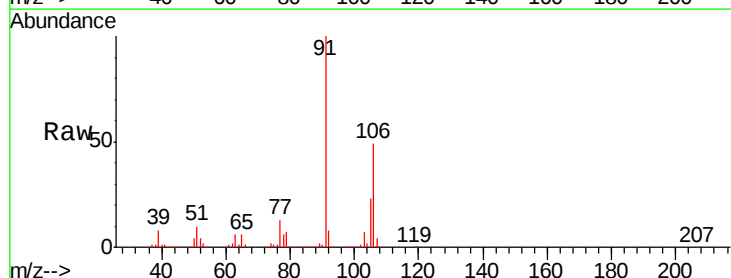
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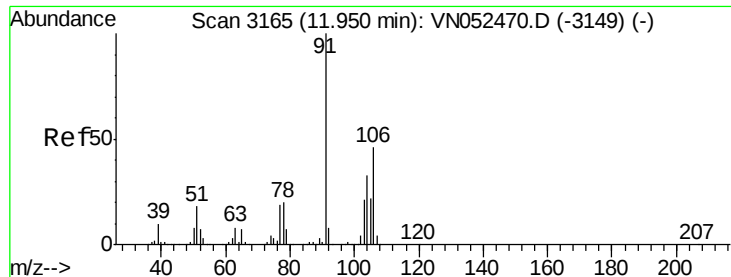
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12/5/2018 9:13:15 AM



#68
m/p-Xylenes
Concen: 99.312 ug/l
RT: 11.62 min Scan# 3063
Delta R.T. -0.00 min
Lab File: VN052663.D
Acq: 4 Dec 2018 19:08

Tgt Ion: 106 Resp: 1832119
Ion Ratio Lower Upper
106 100
91 203.2 163.2 244.8





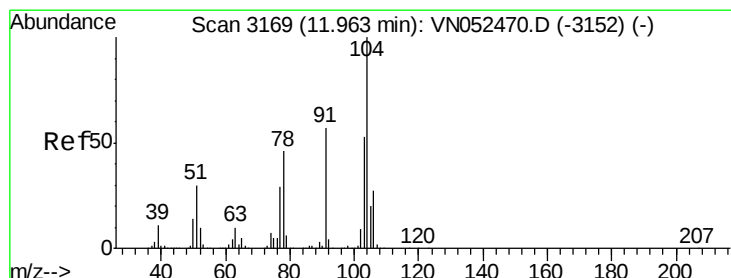
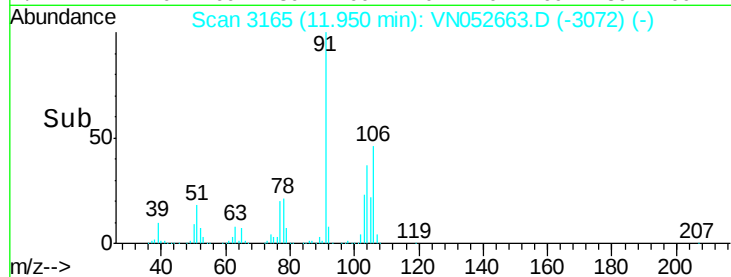
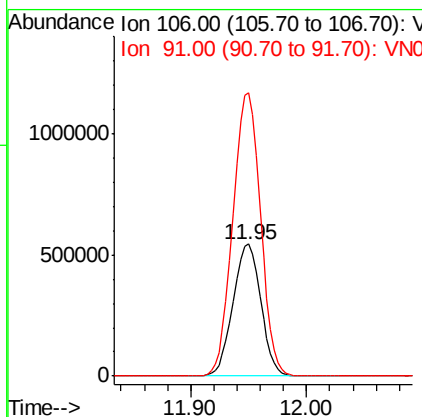
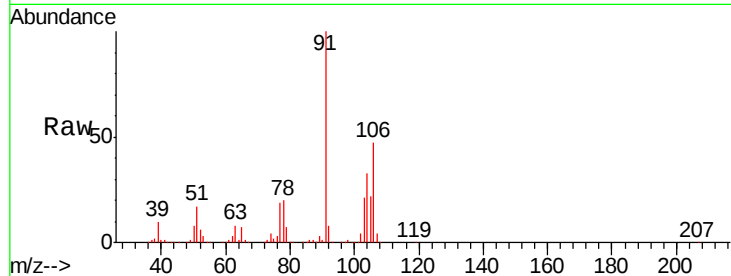
#69
o-Xylene
Concen: 50.224 ug/l
RT: 11.95 min Scan# 3165
Delta R.T. -0.00 min
Lab File: VN052663.D
Acq: 4 Dec 2018 19:08

Instrument :
MSVOA_N
ClientSampleId :
VSTDCCC050EC

Tgt Ion:106 Resp: 899757
Ion Ratio Lower Upper
106 100
91 213.9 107.7 323.1

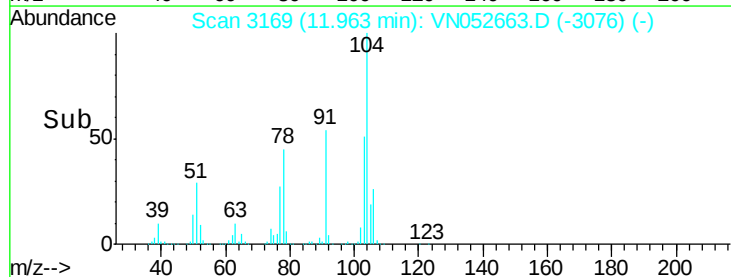
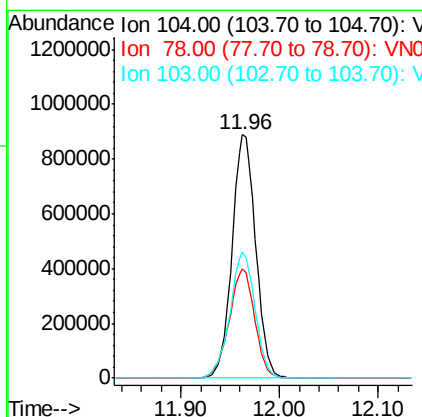
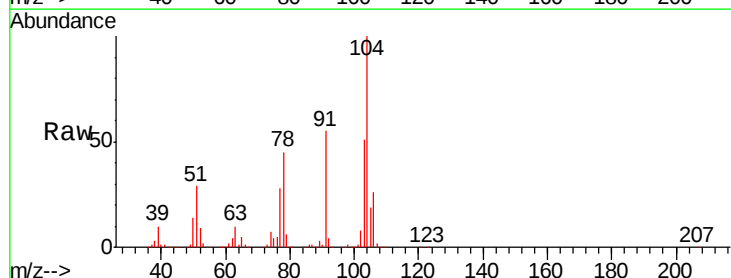
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#70
Styrene
Concen: 52.001 ug/l
RT: 11.96 min Scan# 3169
Delta R.T. -0.00 min
Lab File: VN052663.D
Acq: 4 Dec 2018 19:08

Tgt Ion:104 Resp: 1483780
Ion Ratio Lower Upper
104 100
78 48.6 39.4 59.2
103 55.3 44.9 67.3





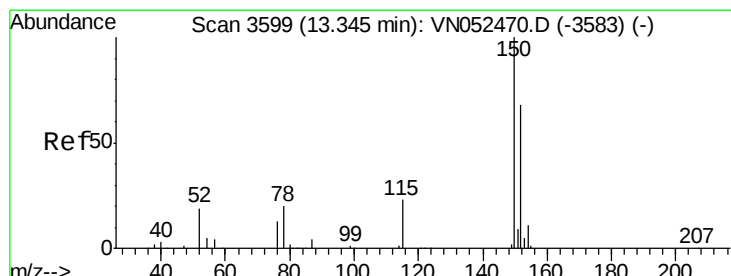
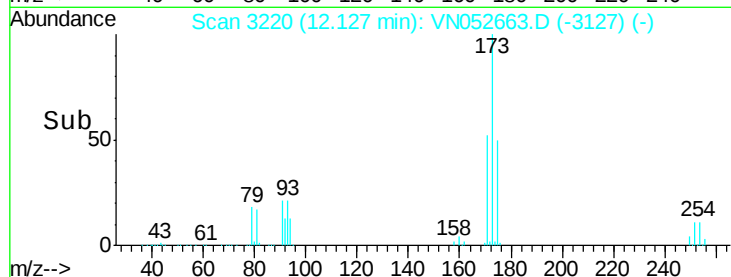
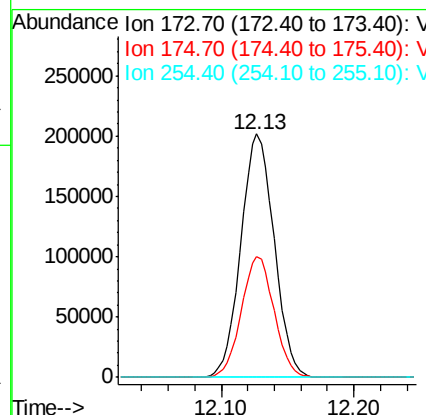
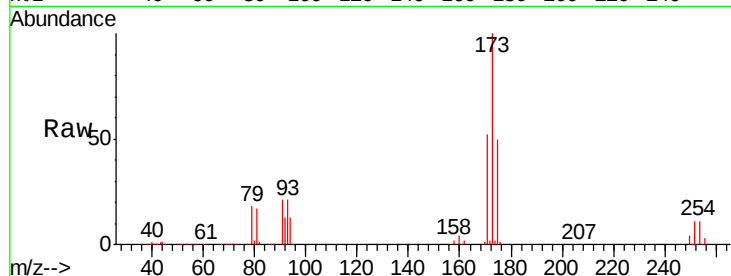
#71
Bromoform
Concen: 53.953 ug/l
RT: 12.13 min Scan# 3220
Delta R.T. -0.00 min
Lab File: VN052663.D
Acq: 4 Dec 2018 19:08

Instrument :
MSVOA_N
ClientSampleId :
VSTDCCC050EC

Tgt Ion	Ratio	Lower	Upper
173	100		
175	48.8	24.4	73.2
254	0.1	0.1	0.1

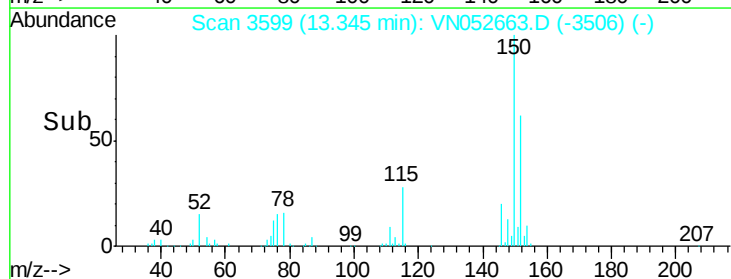
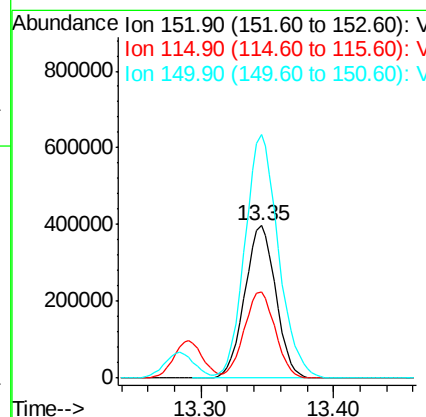
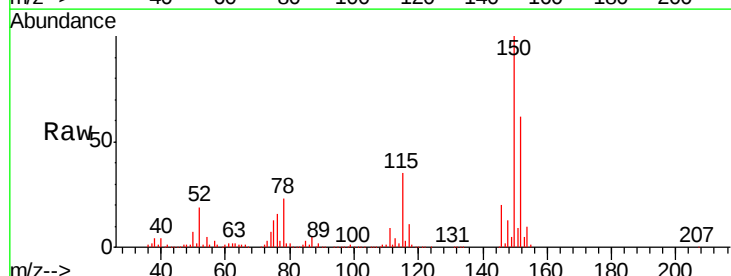
Manual Integrations
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#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 13.35 min Scan# 3599
Delta R.T. -0.00 min
Lab File: VN052663.D
Acq: 4 Dec 2018 19:08

Tgt Ion	Ratio	Lower	Upper
152	100		
115	56.8	28.4	85.2
150	173.2	0.0	346.0





#73

Isopropylbenzene

Concen: 47.327 ug/l

RT: 12.25 min Scan# 3258

Delta R.T. -0.00 min

Lab File: VN052663.D

Acq: 4 Dec 2018 19:08

Instrument :

MSVOA_N

ClientSampleId :

VSTDCCC050EC

Tgt Ion: 105 Resp: 2390770

Ion Ratio Lower Upper

105 100

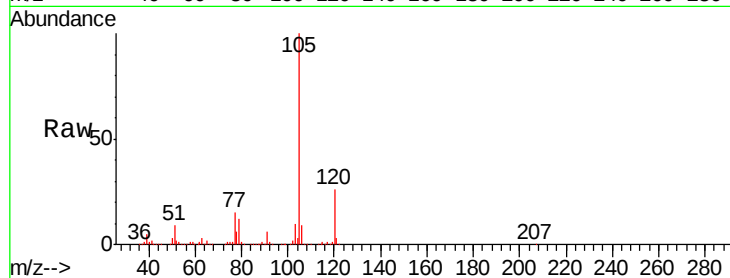
120 26.5 13.1 39.3

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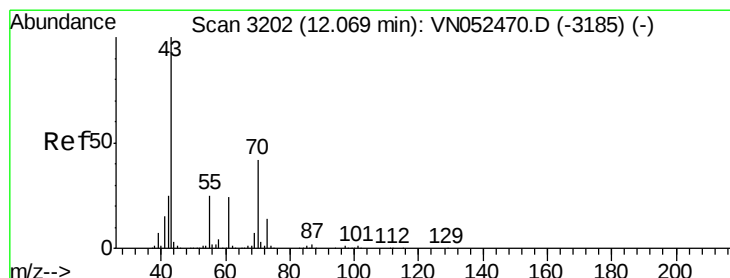
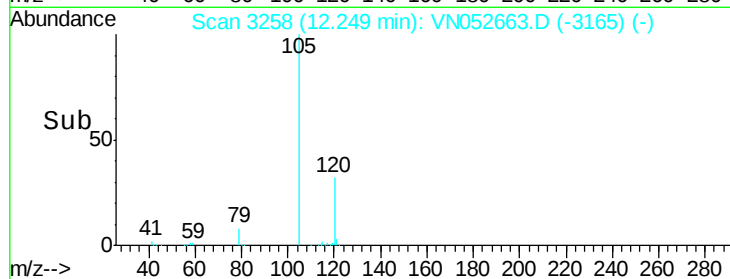
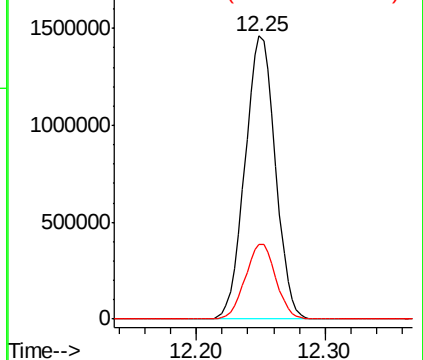
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Abundance Ion 105.00 (104.70 to 105.70): V

Ion 120.00 (119.70 to 120.70): V



#74

N-ethyl acetate

Concen: 53.257 ug/l

RT: 12.07 min Scan# 3202

Delta R.T. -0.00 min

Lab File: VN052663.D

Acq: 4 Dec 2018 19:08

Tgt Ion: 43 Resp: 679683

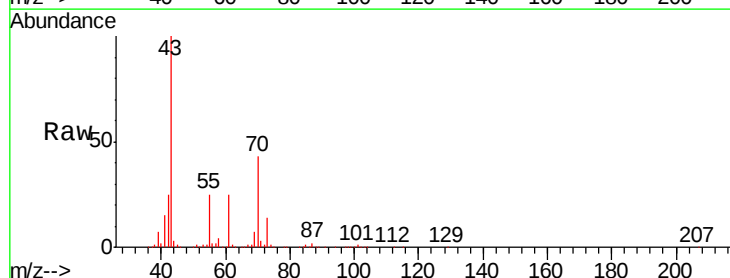
Ion Ratio Lower Upper

43 100

70 43.0 33.8 50.8

55 25.4 20.0 30.0

61 25.1 19.7 29.5

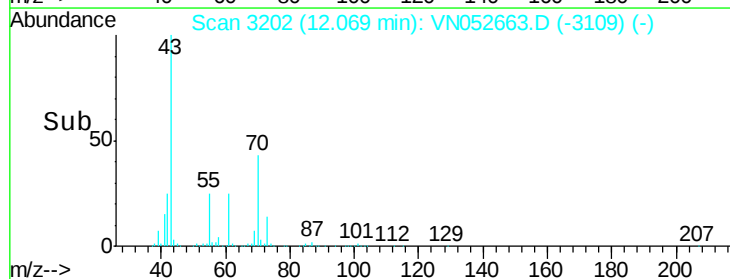
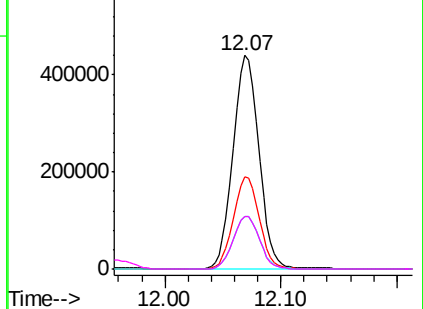


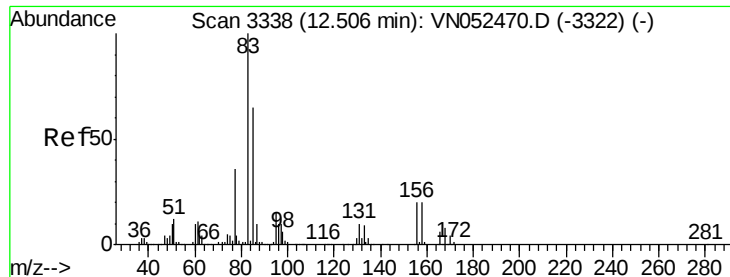
Abundance Ion 43.00 (42.70 to 43.70): V

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





#75

1,1,2,2-Tetrachloroethane

Concen: 49.330 ug/l

RT: 12.51 min Scan# 3338

Delta R.T. -0.00 min

Lab File: VN052663.D

Acq: 4 Dec 2018 19:08

Instrument :

MSVOA_N

ClientSampleId :

VSTDCCC050EC

Tgt Ion: 83 Resp: 566863
Ion Ratio Lower Upper

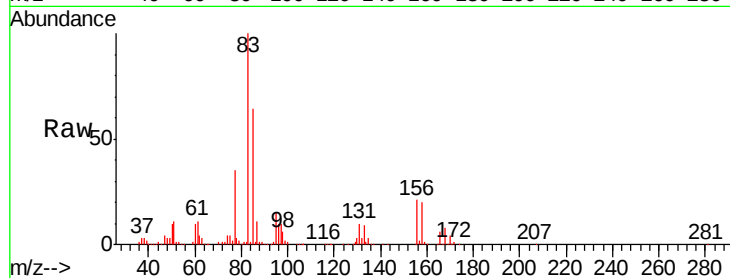
83 100

131 10.0 5.0 15.0

85 64.3 31.9 95.9

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Abundance Ion 82.90 (82.60 to 83.60): VN052470.D (-3322) (-)

Ion 130.80 (130.50 to 131.50): VN052470.D (-3322) (-)

Ion 84.90 (84.60 to 85.60): VN052470.D (-3322) (-)

12.51

400000

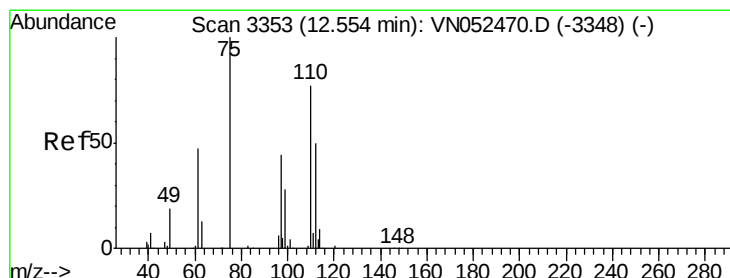
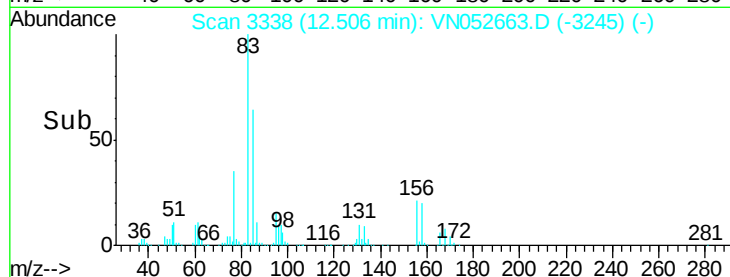
300000

200000

100000

0

Time-->



#76

1,2,3-Trichloropropane

Concen: 48.365 ug/l m

RT: 12.55 min Scan# 3353

Delta R.T. -0.00 min

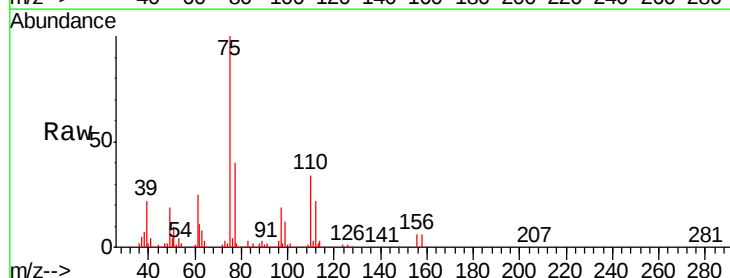
Lab File: VN052663.D

Acq: 4 Dec 2018 19:08

Tgt Ion: 75 Resp: 480212
Ion Ratio Lower Upper

75 100

77 0.0 0.0 0.0



Abundance Ion 74.90 (74.60 to 75.60): VN052470.D (-3348) (-)

Ion 77.00 (76.70 to 77.70): VN052470.D (-3348) (-)

12.55

600000

500000

400000

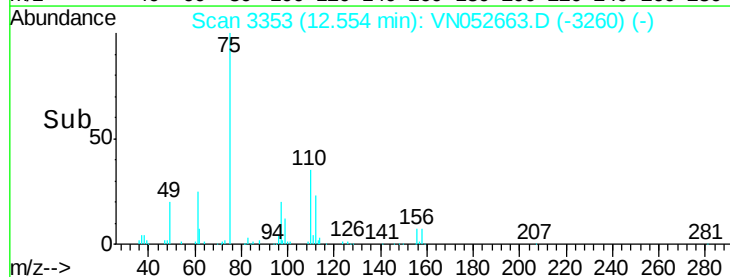
300000

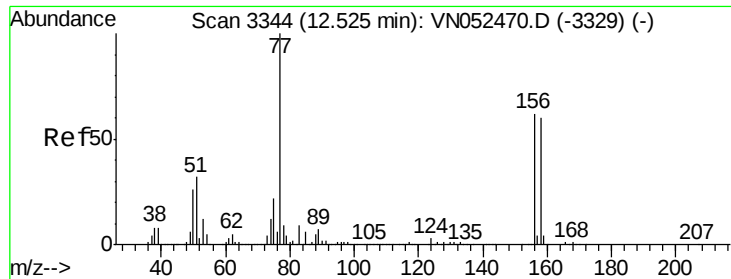
200000

100000

0

Time-->





#77

Bromobenzene

Concen: 48.710 ug/l

RT: 12.53 min Scan# 3344

Delta R.T. -0.00 min

Lab File: VN052663.D

Acq: 4 Dec 2018 19:08

Instrument :

MSVOA_N

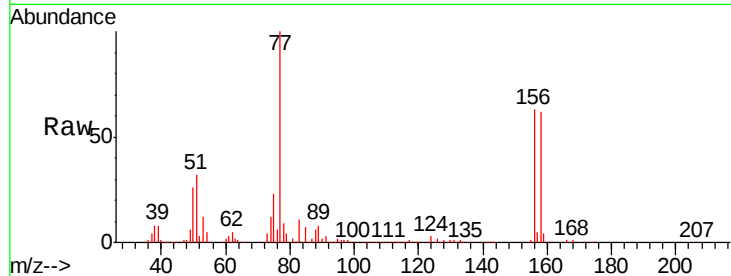
ClientSampled :

VSTDCCC050EC

Tgt Ion:	156	Resp:	608193
Ion Ratio	Lower	Upper	
156	100		
77	183.2	93.5	280.4
158	97.2	48.3	144.9

Manual Integrations
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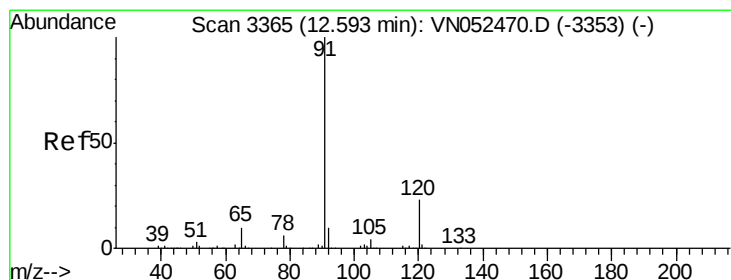
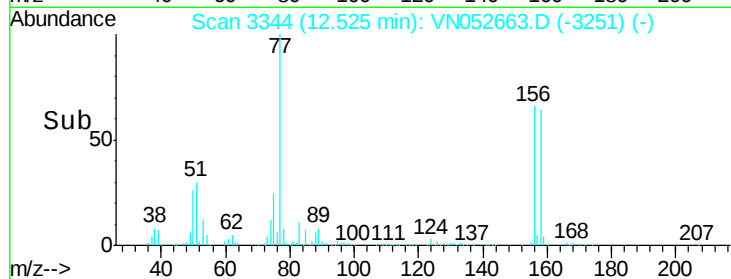
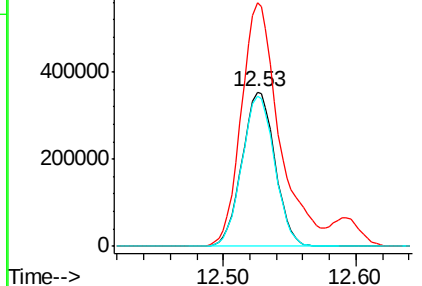
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Abundance Ion 155.80 (155.50 to 156.50): V

Ion 77.00 (76.70 to 77.70): VNO

Ion 157.80 (157.50 to 158.50): V



#78

n-propylbenzene

Concen: 48.012 ug/l

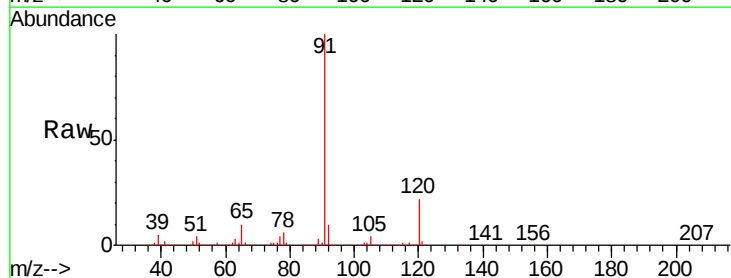
RT: 12.59 min Scan# 3365

Delta R.T. -0.00 min

Lab File: VN052663.D

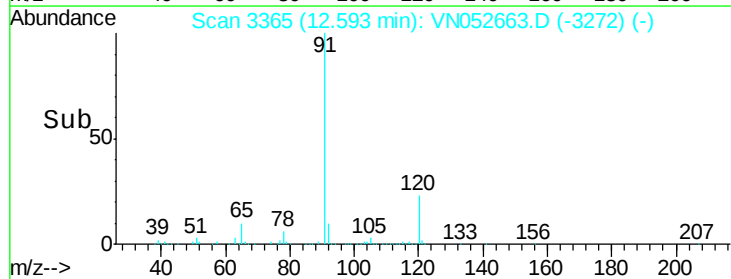
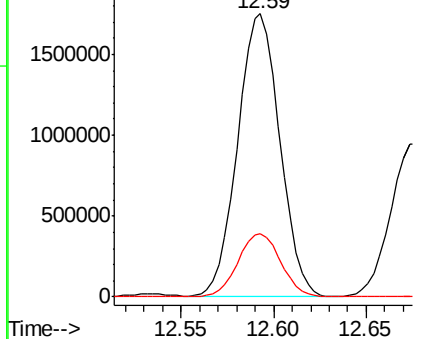
Acq: 4 Dec 2018 19:08

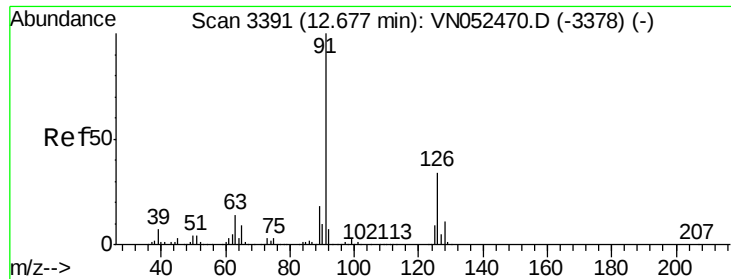
Tgt Ion:	91	Resp:	2755303
Ion Ratio	Lower	Upper	
91	100		
120	22.7	11.3	33.9



Abundance Ion 91.00 (90.70 to 91.70): VNO

Ion 120.00 (119.70 to 120.70): V





#79

2-Chlorotoluene

Concen: 47.139 ug/l

RT: 12.68 min Scan# 3391

Delta R.T. -0.00 min

Lab File: VN052663.D

Acq: 4 Dec 2018 19:08

Instrument :

MSVOA_N

ClientSampleId :

VSTDCCC050EC

Tgt Ion: 91 Resp: 1610973

Ion Ratio Lower Upper

91 100

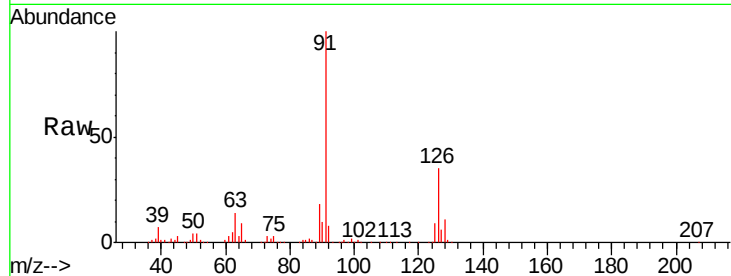
126 34.9 17.2 51.6

Manual Integrations

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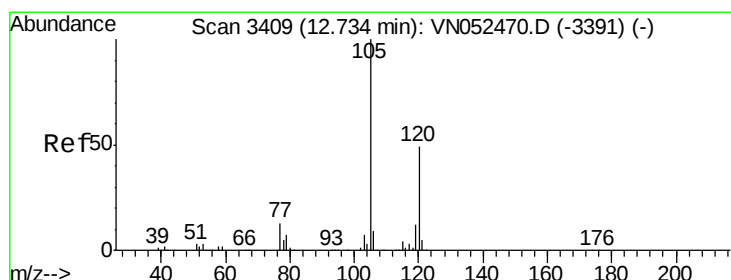
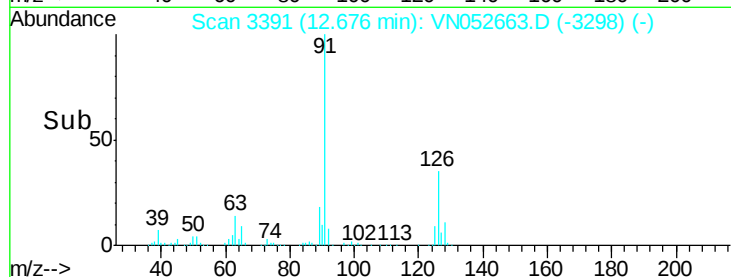
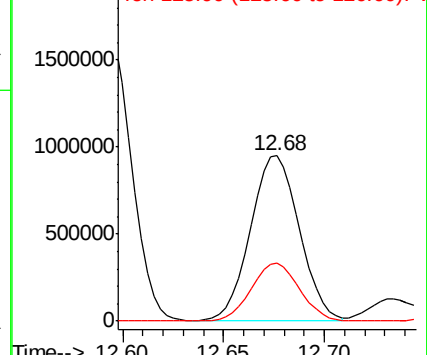
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Abundance Ion 91.00 (90.70 to 91.70): VN052470.D (-3378) (-)

Ion 125.90 (125.60 to 126.60): VN052470.D (-3378) (-)



#80

1,3,5-Trimethylbenzene

Concen: 48.362 ug/l

RT: 12.73 min Scan# 3409

Delta R.T. -0.00 min

Lab File: VN052663.D

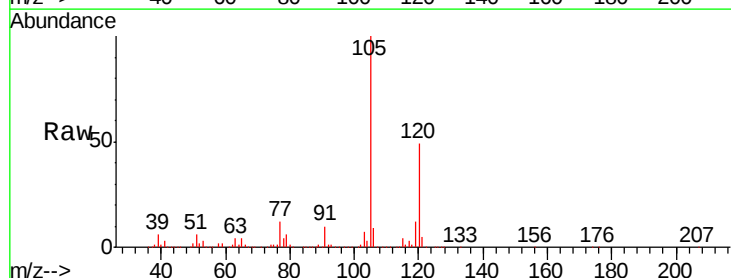
Acq: 4 Dec 2018 19:08

Tgt Ion: 105 Resp: 1948411

Ion Ratio Lower Upper

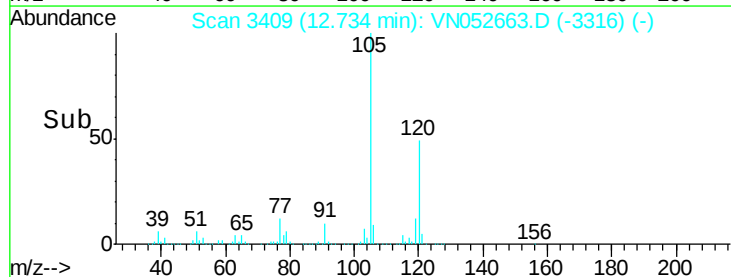
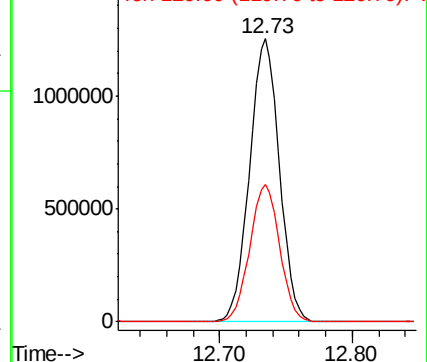
105 100

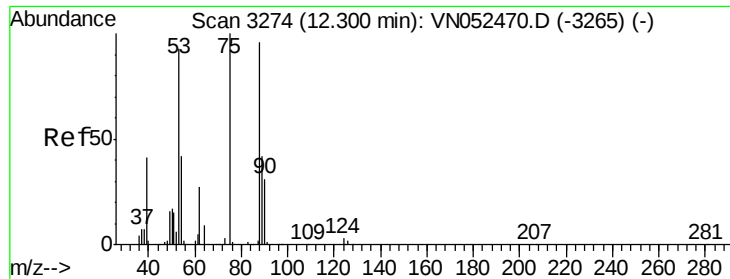
120 48.7 24.3 73.0



Abundance Ion 105.00 (104.70 to 105.70): VN052470.D (-3391) (-)

Ion 120.00 (119.70 to 120.70): VN052470.D (-3391) (-)





#81

trans-1,4-Dichloro-2-butene

Concen: 51.656 ug/l

RT: 12.30 min Scan# 3274

Delta R.T. -0.00 min

Lab File: VN052663.D

Acq: 4 Dec 2018 19:08

Instrument :

MSVOA_N

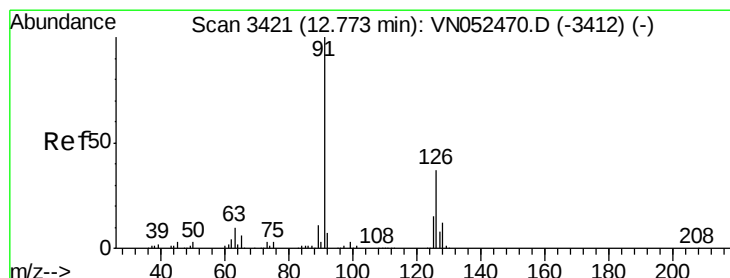
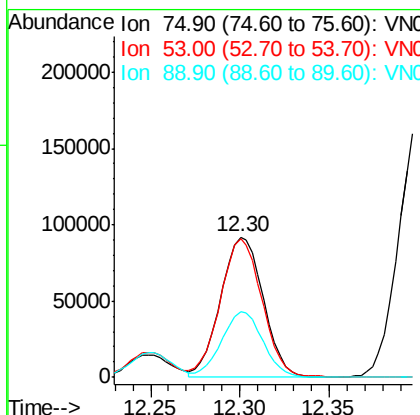
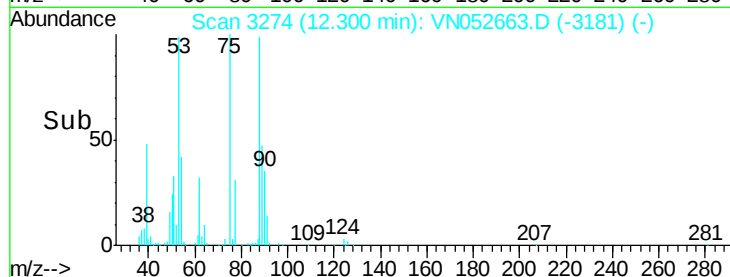
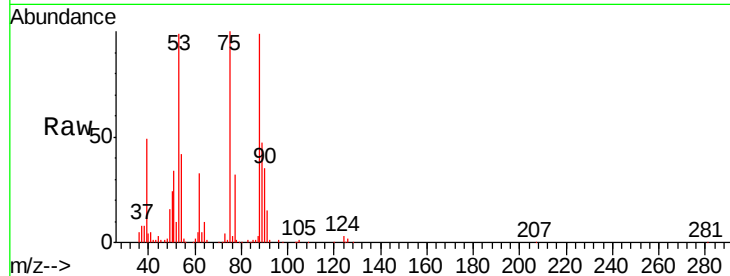
ClientSampleId :

VSTDCCC050EC

Tgt Ion:	75	Resp:	153580
Ion	Ratio	Lower	Upper
75	100		
53	95.8	77.4	116.0
89	44.9	35.4	53.2

Manual Integrations
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#82

4-Chlorotoluene

Concen: 47.358 ug/l

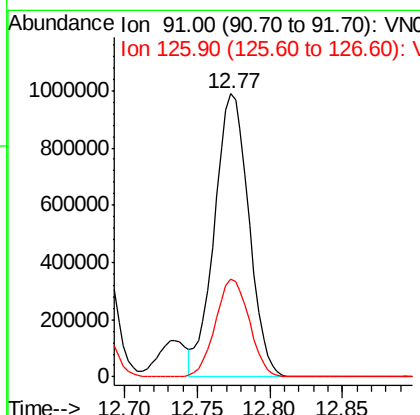
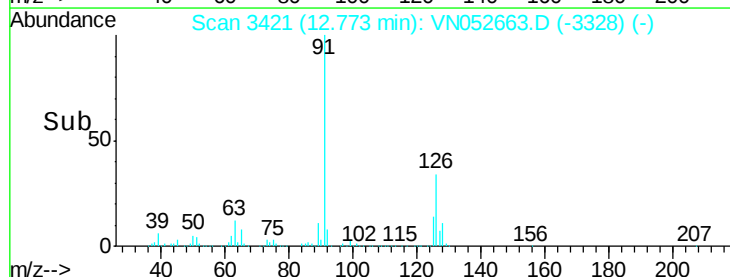
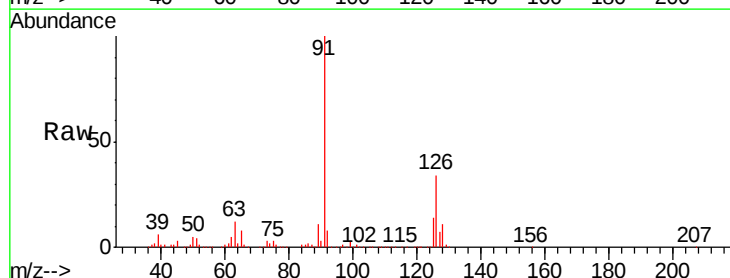
RT: 12.77 min Scan# 3421

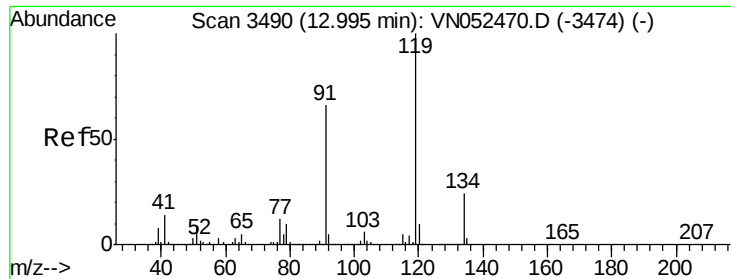
Delta R.T. -0.00 min

Lab File: VN052663.D

Acq: 4 Dec 2018 19:08

Tgt Ion:	91	Resp:	1631143
Ion	Ratio	Lower	Upper
91	100		
126	34.2	16.9	50.6





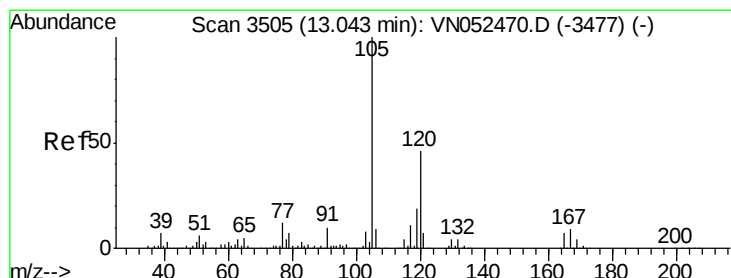
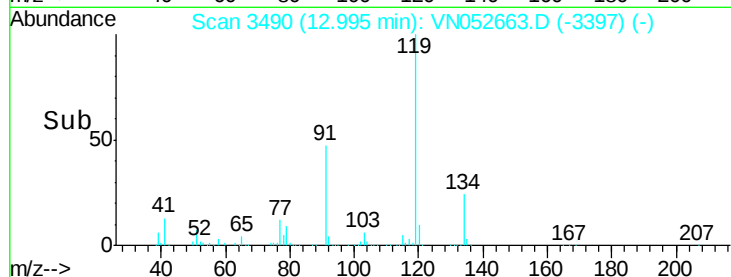
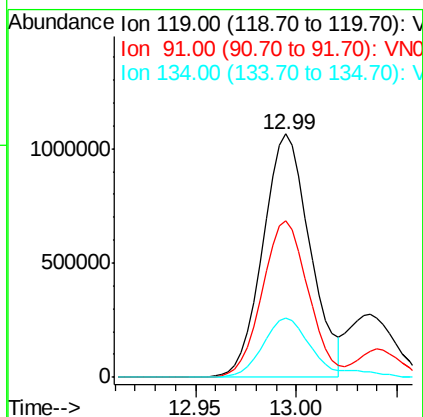
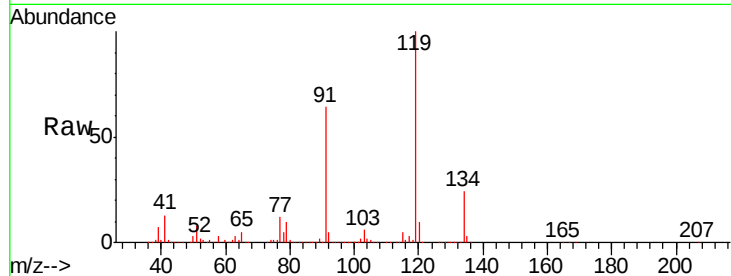
#83
 tert-Butylbenzene
 Concen: 48.170 ug/l
 RT: 12.99 min Scan# 3490
 Delta R.T. -0.00 min
 Lab File: VN052663.D
 Acq: 4 Dec 2018 19:08

Instrument :
 MSVOA_N
 ClientSampleId :
 VSTDCCC050EC

Tgt Ion:119 Resp: 1730117
 Ion Ratio Lower Upper
 119 100
 91 63.1 32.3 96.9
 134 26.0 13.0 38.9

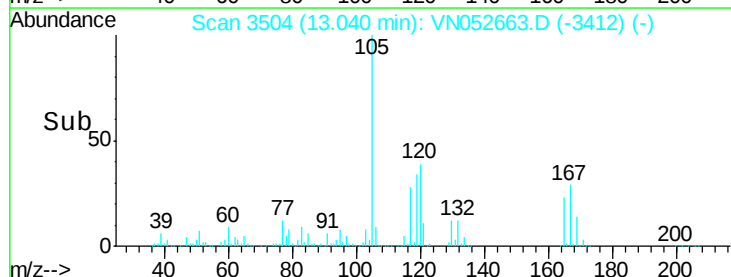
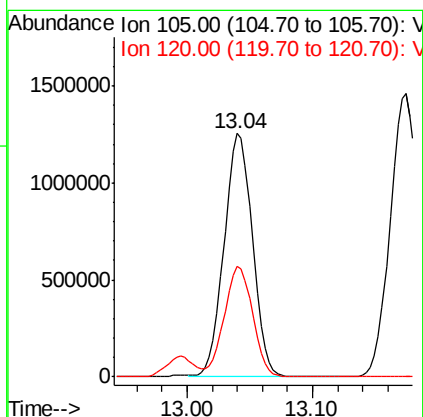
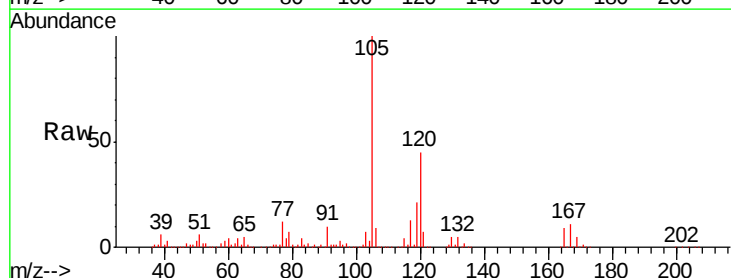
Manual Integrations
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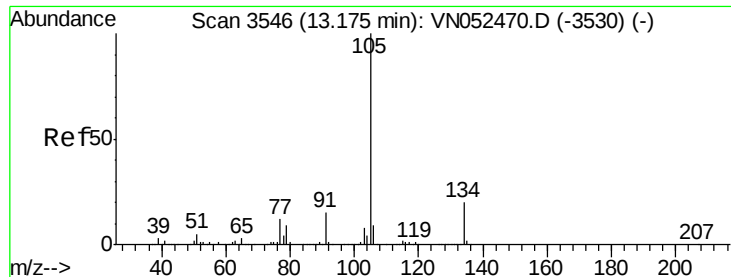
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#84
 1,2,4-Trimethylbenzene
 Concen: 48.683 ug/l
 RT: 13.04 min Scan# 3504
 Delta R.T. -0.00 min
 Lab File: VN052663.D
 Acq: 4 Dec 2018 19:08

Tgt Ion:105 Resp: 1965595
 Ion Ratio Lower Upper
 105 100
 120 45.3 22.8 68.4





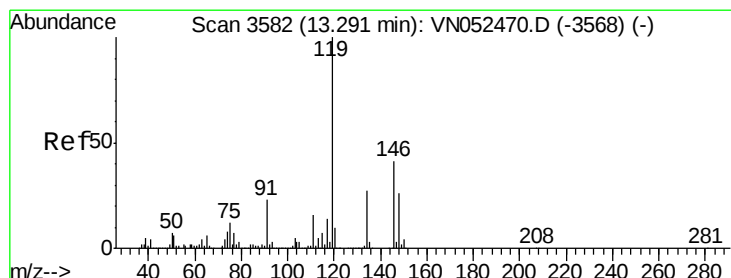
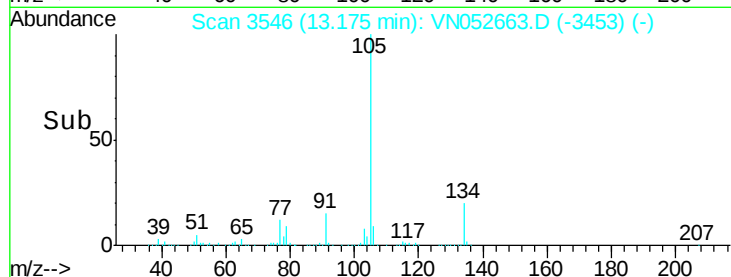
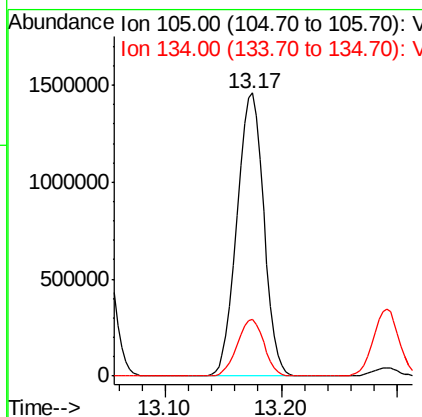
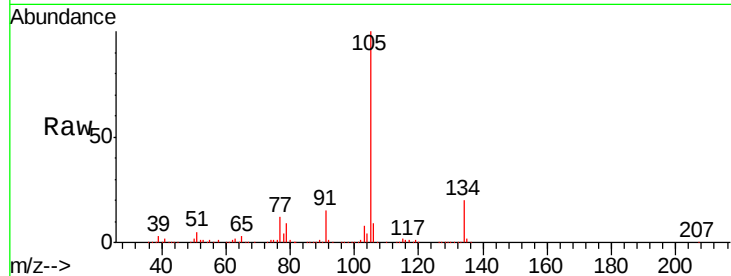
#85
 sec-Butylbenzene
 Concen: 47.663 ug/l
 RT: 13.17 min Scan# 3546
 Delta R.T. -0.00 min
 Lab File: VN052663.D
 Acq: 4 Dec 2018 19:08

Instrument :
 MSVOA_N
 ClientSampleId :
 VSTDCCC050EC

Tgt Ion:105 Resp: 2331657
 Ion Ratio Lower Upper
 105 100
 134 20.1 9.9 29.7

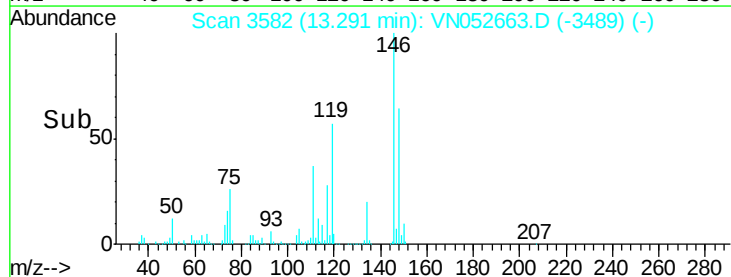
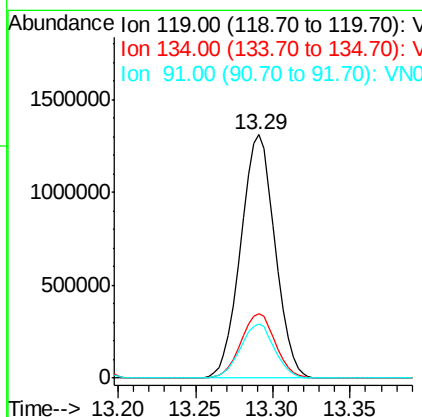
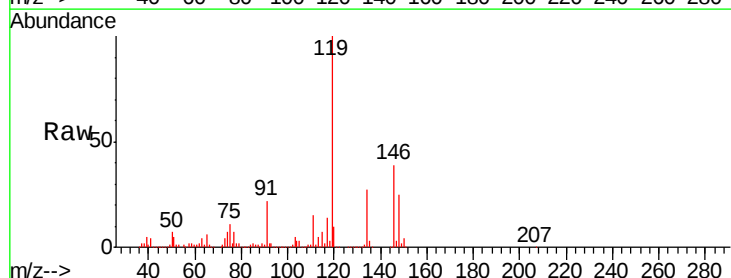
Manual Integrations
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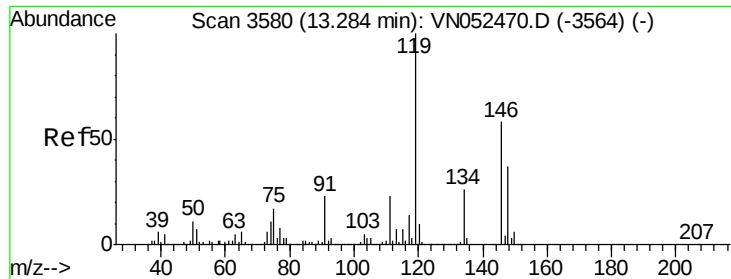
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 12/5/2018 9:13:15 AM



#86
 p-Isopropyltoluene
 Concen: 48.368 ug/l
 RT: 13.29 min Scan# 3582
 Delta R.T. -0.00 min
 Lab File: VN052663.D
 Acq: 4 Dec 2018 19:08

Tgt Ion:119 Resp: 2015337
 Ion Ratio Lower Upper
 119 100
 134 26.6 13.4 40.2
 91 22.1 11.4 34.2





#87

1,3-Dichlorobenzene

Concen: 48.129 ug/l

RT: 13.28 min Scan# 3580

Delta R.T. -0.00 min

Lab File: VN052663.D

Acq: 4 Dec 2018 19:08

Instrument :

MSVOA_N

ClientSampleId :

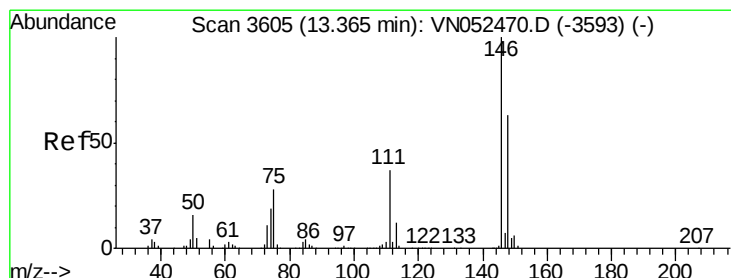
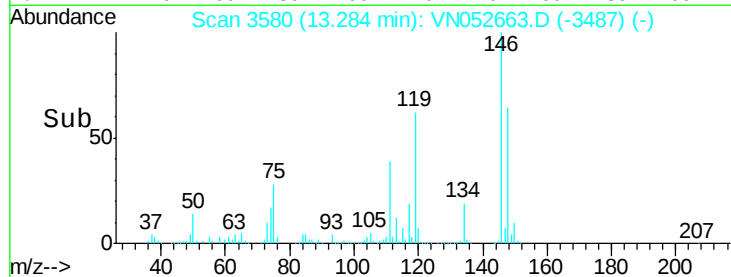
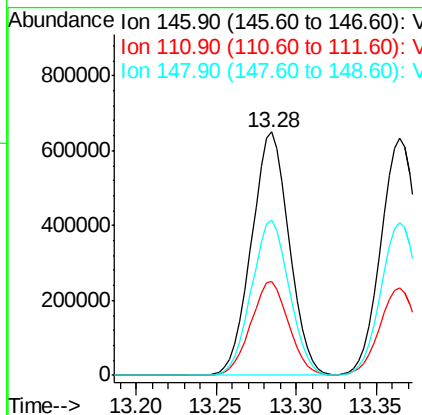
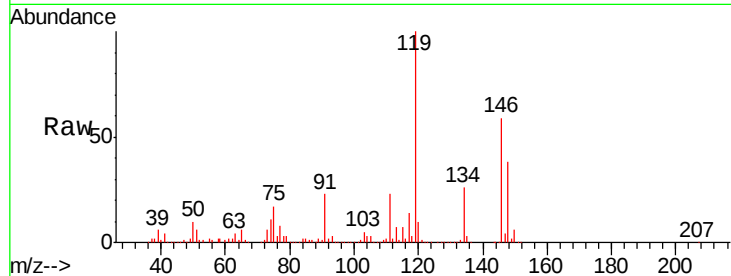
VSTDCCC050EC

Tgt Ion:146 Resp: 1051169

Ion	Ratio	Lower	Upper
146	100		
111	38.6	19.4	58.4
148	64.1	31.8	95.4

Manual Integrations
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#88

1,4-Dichlorobenzene

Concen: 48.211 ug/l

RT: 13.36 min Scan# 3605

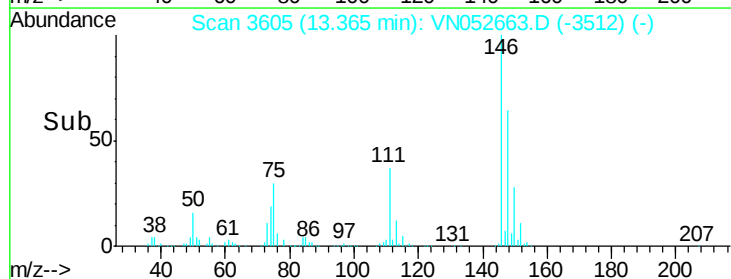
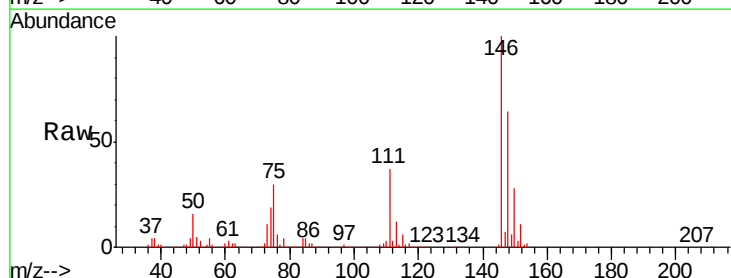
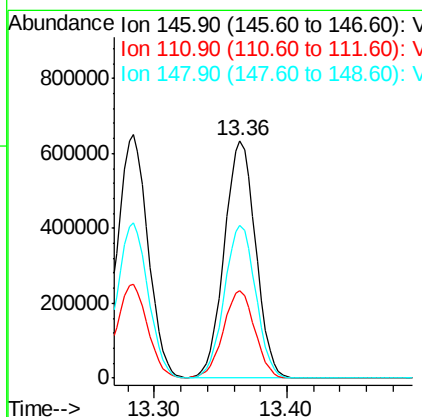
Delta R.T. -0.00 min

Lab File: VN052663.D

Acq: 4 Dec 2018 19:08

Tgt Ion:146 Resp: 1037172

Ion	Ratio	Lower	Upper
146	100		
111	37.2	18.6	56.0
148	64.5	31.9	95.9





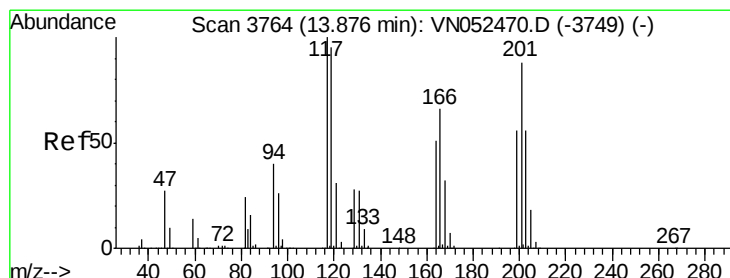
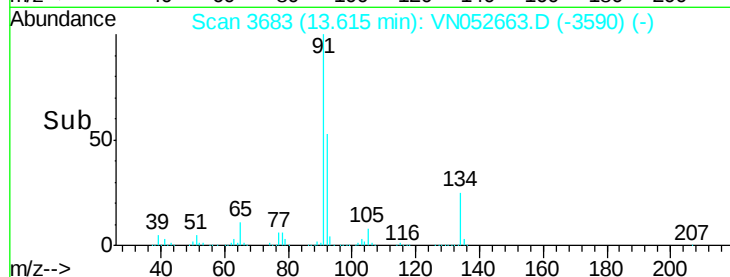
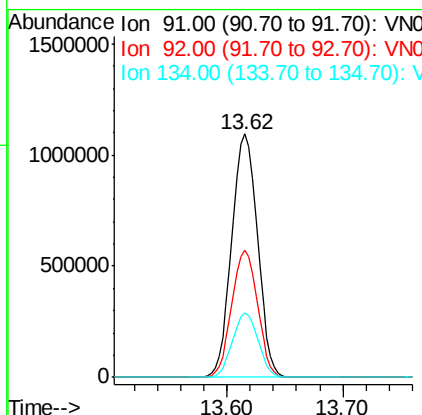
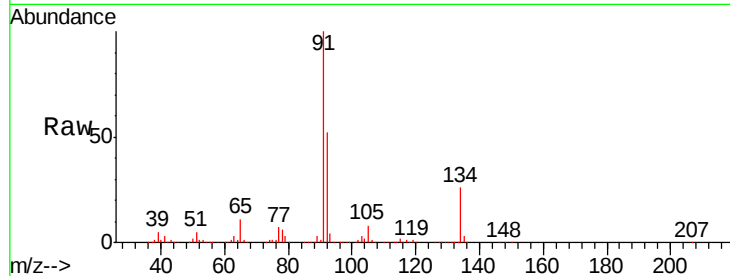
#89
n-Butylbenzene
Concen: 48.645 ug/l
RT: 13.62 min Scan# 3683
Delta R.T. -0.00 min
Lab File: VN052663.D
Acq: 4 Dec 2018 19:08

Instrument :
MSVOA_N
ClientSampleId :
VSTDCCC050EC

Tgt Ion: 91 Resp: 1685671
Ion Ratio Lower Upper
91 100
92 52.3 26.1 78.3
134 26.3 13.0 38.9

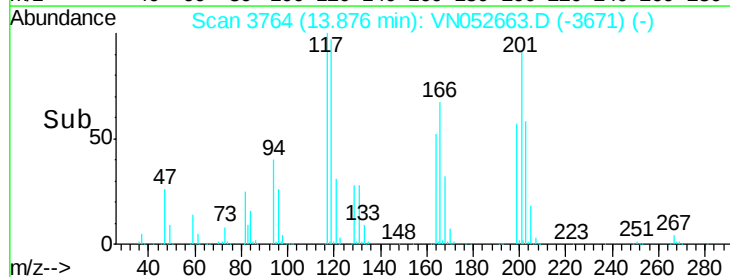
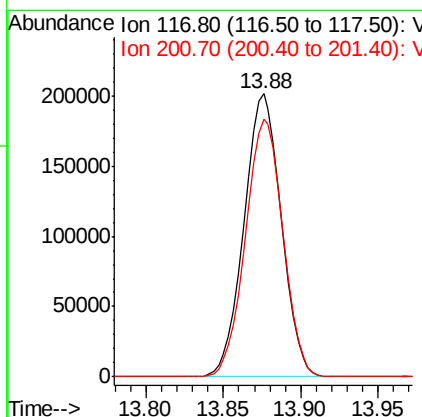
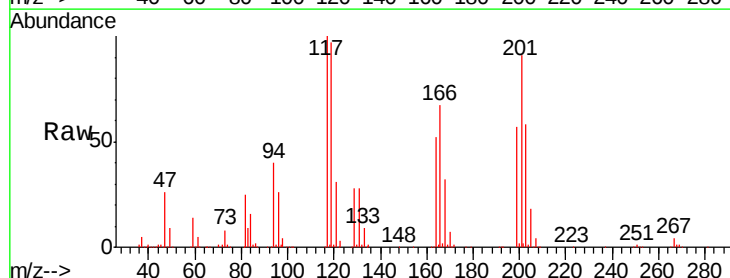
Manual Integrations
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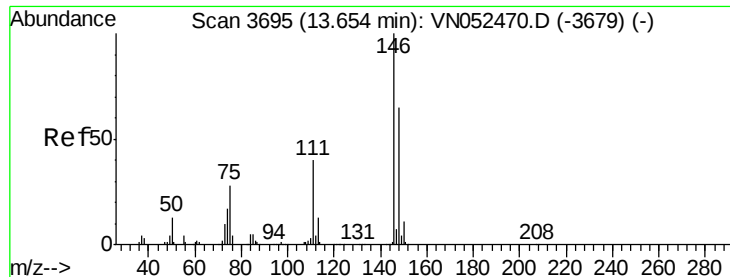
MMDadoda
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#90
Hexachloroethane
Concen: 47.911 ug/l
RT: 13.88 min Scan# 3764
Delta R.T. -0.00 min
Lab File: VN052663.D
Acq: 4 Dec 2018 19:08

Tgt Ion: 117 Resp: 338016
Ion Ratio Lower Upper
117 100
201 91.4 43.6 130.9





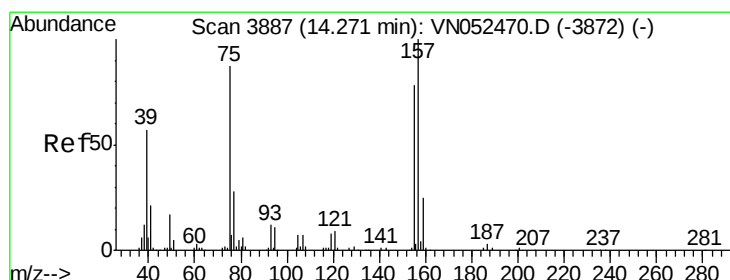
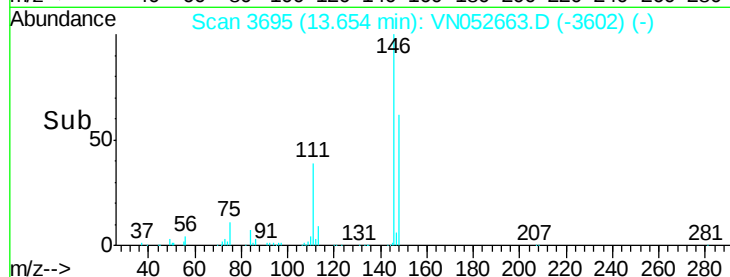
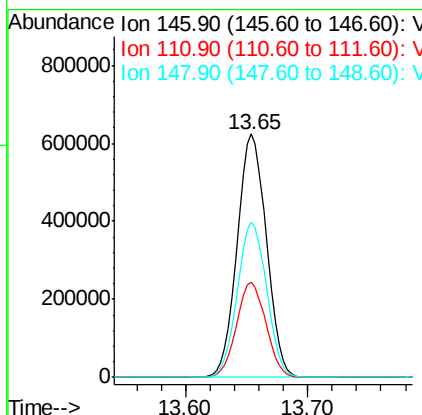
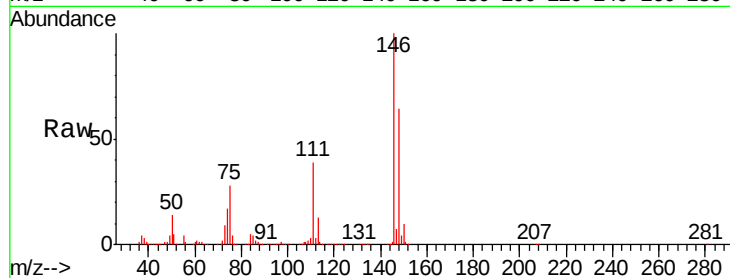
#91
 1,2-Dichlorobenzene
 Concen: 49.452 ug/l
 RT: 13.65 min Scan# 3695
 Delta R.T. -0.00 min
 Lab File: VN052663.D
 Acq: 4 Dec 2018 19:08

Instrument :
 MSVOA_N
 ClientSampleId :
 VSTDCCC050EC

Tgt Ion: 146 Resp: 1031892
 Ion Ratio Lower Upper
 146 100
 111 39.4 20.0 60.0
 148 64.0 32.0 96.2

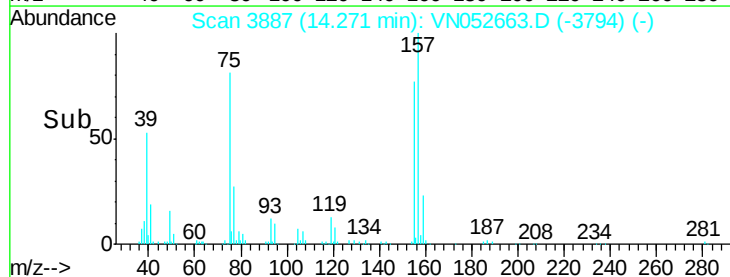
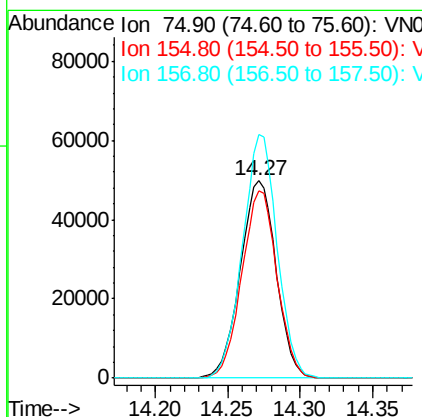
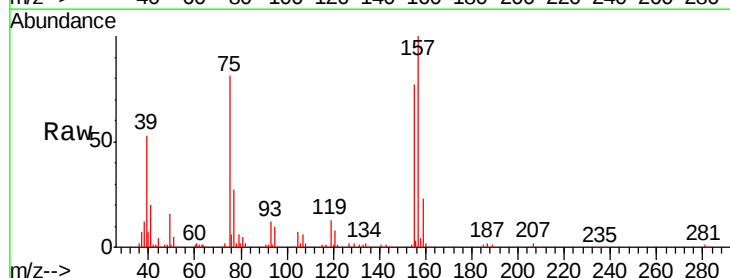
Manual Integrations
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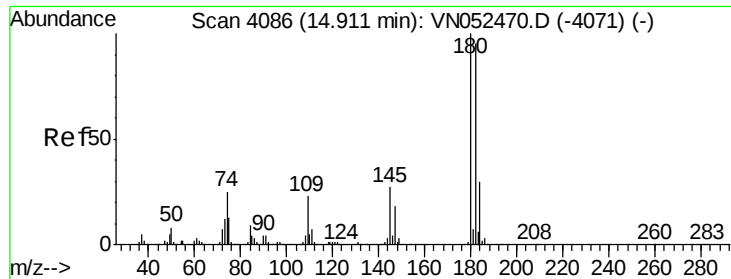
MMDadoda
 12/5/2018 9:13:15 AM



#92
 1,2-Dibromo-3-Chloropropane
 Concen: 52.196 ug/l
 RT: 14.27 min Scan# 3887
 Delta R.T. -0.00 min
 Lab File: VN052663.D
 Acq: 4 Dec 2018 19:08

Tgt Ion: 75 Resp: 85784
 Ion Ratio Lower Upper
 75 100
 155 93.0 45.3 135.9
 157 118.9 58.1 174.2





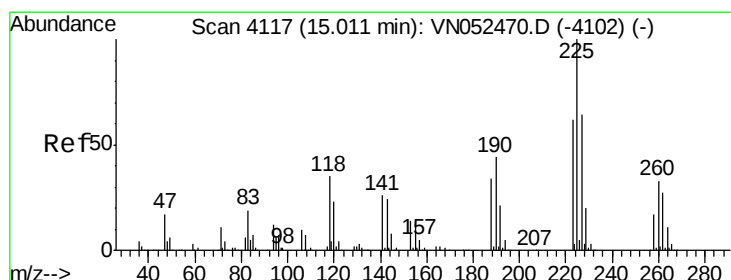
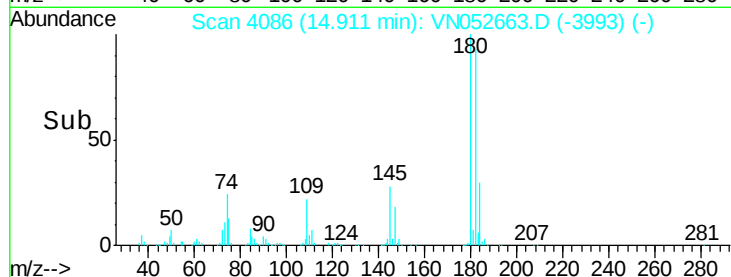
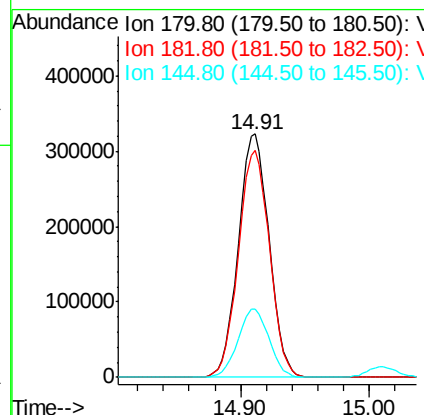
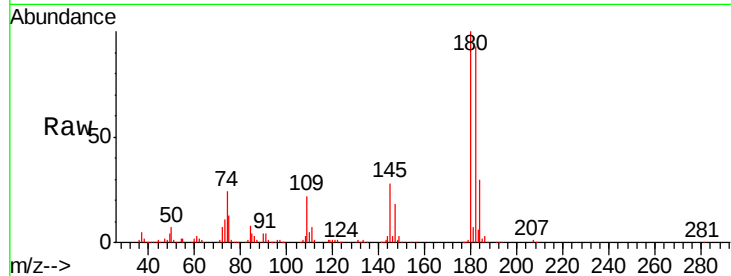
#93
 1,2,4-Trichlorobenzene
 Concen: 46.841 ug/l
 RT: 14.91 min Scan# 4086
 Delta R.T. 0.00 min
 Lab File: VN052663.D
 Acq: 4 Dec 2018 19:08

Instrument :
 MSVOA_N
 ClientSampleId :
 VSTDCCC050EC

Tgt Ion	Ratio	Resp	Lower	Upper
180	100	533270		
182	94.2	47.8	143.4	
145	28.4	14.1	42.3	

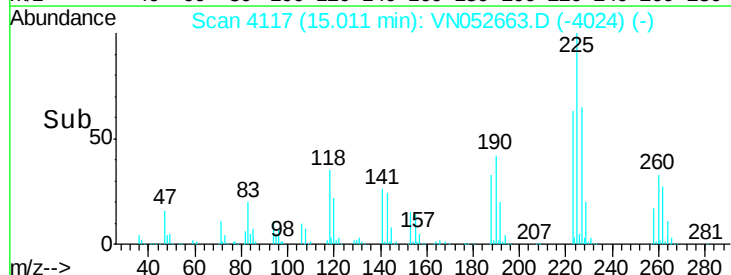
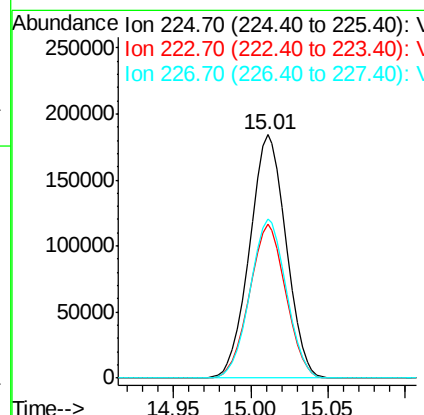
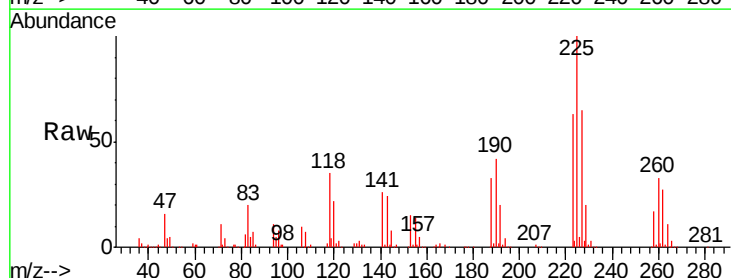
Manual Integrations
 APPROVED

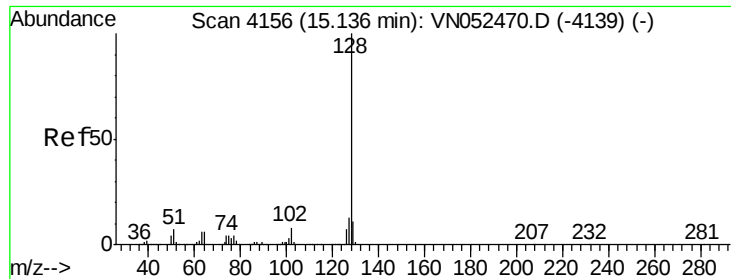
MMDadoda
 12/5/2018 9:13:15 AM



#94
 Hexachlorobutadiene
 Concen: 45.105 ug/l
 RT: 15.01 min Scan# 4117
 Delta R.T. -0.00 min
 Lab File: VN052663.D
 Acq: 4 Dec 2018 19:08

Tgt Ion	Ratio	Resp	Lower	Upper
225	100	302788		
223	62.9	31.4	94.2	
227	64.7	32.5	97.4	





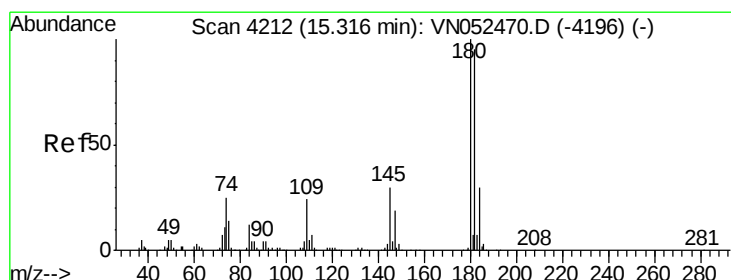
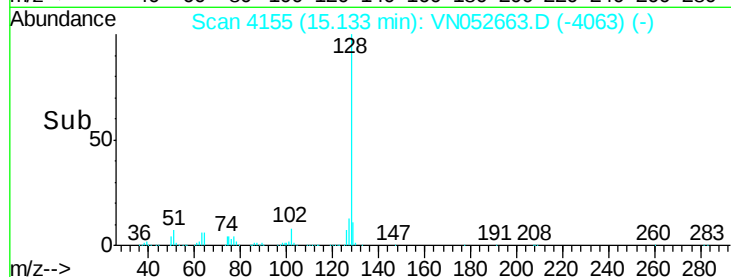
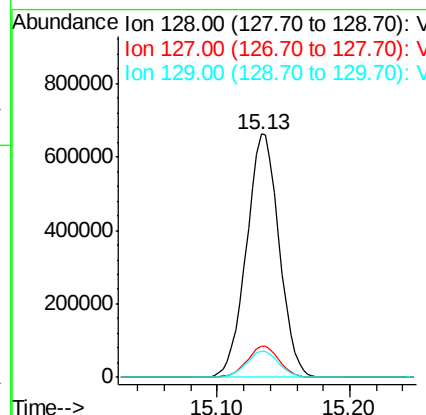
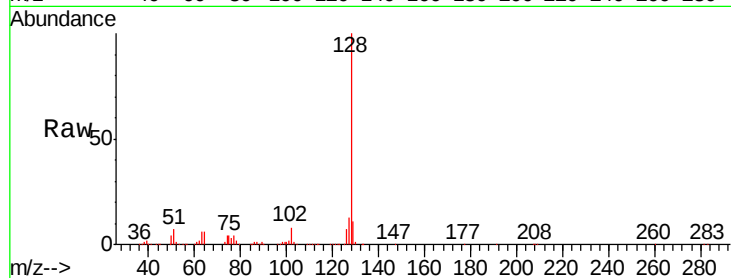
#95
Naphthalene
Concen: 46.901 ug/l
RT: 15.13 min Scan# 4156
Delta R.T. -0.00 min
Lab File: VN052663.D
Acq: 4 Dec 2018 19:08

Instrument :
MSVOA_N
ClientSampleId :
VSTDCCC050EC

Tgt Ion	Ratio	Lower	Upper
128	100		
127	12.6	10.2	15.2
129	10.7	8.7	13.1

Manual Integrations
APPROVED

MMDadoda
12/5/2018 9:13:15 AM



#96
1,2,3-Trichlorobenzene
Concen: 47.110 ug/l
RT: 15.32 min Scan# 4212
Delta R.T. 0.00 min
Lab File: VN052663.D
Acq: 4 Dec 2018 19:08

Tgt Ion	Ratio	Lower	Upper
180	100		
182	95.3	47.8	143.3
145	30.0	15.2	45.5

