

Data Path : Z:\VOASRV\HPCHEM1\MSVOA N\DATA\VN020419\
 Data File : VN053586.D
 Acq On : 4 Feb 2019 10:09
 Operator : JC/SP
 Sample : VSTDCCC050
 Misc : 5.00mL/MSVOA N/WATER
 ALS Vial : 2 Sample Multiplier: 28

Instrument :
 MSVOA_N
 ClientSampleId :
 VSTDCCC050

Manual Integrations
 APPROVED

MMDadoda
 2/5/2019 9:53:41 AM

Quant Time: Feb 05 01:33:35 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_N\METHODS\82N013019W.M
 Quant Title : SW846 8260
 QLast Update : Fri Feb 01 09:11:52 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	7.67	168	708128	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	8.59	114	1018008	50.00	ug/l	0.00
63) Chlorobenzene-d5	11.41	117	909183	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.34	152	451534	50.00	ug/l	0.00

System Monitoring Compounds

33) 1,2-Dichloroethane-d4	8.03	65	347607	48.93	ug/l	0.00
Spiked Amount	50.000		Recovery	=	97.86%	
35) Dibromofluoromethane	7.59	113	336697	52.34	ug/l	0.00
Spiked Amount	50.000		Recovery	=	104.68%	
50) Toluene-d8	10.09	98	1238518	51.28	ug/l	0.00
Spiked Amount	50.000		Recovery	=	102.56%	
62) 4-Bromofluorobenzene	12.40	95	423368	52.56	ug/l	0.00
Spiked Amount	50.000		Recovery	=	105.12%	

Target Compounds

						Qvalue
2) Dichlorodifluoromethane	1.85	85	390391	48.909	ug/l	100
3) Chloromethane	2.06	50	400237	47.608	ug/l	100
4) Vinyl Chloride	2.19	62	390903	47.899	ug/l	100
5) Bromomethane	2.57	94	253241	47.459	ug/l	98
6) Chloroethane	2.71	64	224866	48.217	ug/l	99
7) Trichlorofluoromethane	3.02	101	537768	48.593	ug/l	99
8) Diethyl Ether	3.41	74	182995	45.277	ug/l	100
9) 1,1,2-Trichlorotrifluoroet	3.76	101	336531	49.169	ug/l	98
10) Methyl Iodide	3.96	142	500544	46.594	ug/l	100
11) Tert butyl alcohol	4.78	59	94457	224.670	ug/l	98
12) 1,1-Dichloroethene	3.74	96	315714	48.146	ug/l	98
13) Acrolein	3.61	56	161809	706.886	ug/l	99
14) Allyl chloride	4.32	41	497885	47.686	ug/l	99
15) Acrylonitrile	4.99	53	535360	235.876	ug/l	100
16) Acetone	3.81	43	499146	273.930	ug/l	100
17) Carbon Disulfide	4.06	76	955737	46.807	ug/l	100
18) Methyl Acetate	4.32	43	235693	43.676	ug/l	98
19) Methyl tert-butyl Ether	5.05	73	781433	47.008	ug/l	99
20) Methylene Chloride	4.55	84	352428	46.101	ug/l	99
21) trans-1,2-Dichloroethene	5.04	96	332583	47.011	ug/l	99
22) Diisopropyl ether	5.95	45	952400	49.230	ug/l	97
23) Vinyl Acetate	5.90	43	3199899	239.097	ug/l	99
24) 1,1-Dichloroethane	5.85	63	612169	47.442	ug/l	99
25) 2-Butanone	6.83	43	625349	240.629	ug/l	98
26) 2,2-Dichloropropane	6.82	77	473468	48.067	ug/l	99
27) cis-1,2-Dichloroethene	6.83	96	374747	47.637	ug/l	99
28) Bromochloromethane	7.19	49	280264	50.050	ug/l	98
29) Tetrahydrofuran	7.21	42	381564	228.649	ug/l	98
30) Chloroform	7.37	83	604522	47.260	ug/l	99
31) Cyclohexane	7.65	56	567435	47.222	ug/l	98
32) 1,1,1-Trichloroethane	7.57	97	512690	48.162	ug/l	99
36) 1,1-Dichloropropene	7.79	75	467899	50.988	ug/l	99
37) Ethyl Acetate	6.92	43	244448	47.695	ug/l	98
38) Carbon Tetrachloride	7.77	117	462575	50.038	ug/l	98

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Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
39) Methylcyclohexane	9.08	83	585139	53.746	ug/l	98
40) Benzene	8.04	78	1409784	49.818	ug/l	100
41) Methacrylonitrile	7.18	41	150800m	52.645	ug/l	
42) 1,2-Dichloroethane	8.12	62	417816	49.725	ug/l	100
43) Isopropyl Acetate	8.16	43	447566	45.218	ug/l #	90
44) Trichloroethene	8.83	130	400552	49.718	ug/l	99
45) 1,2-Dichloropropane	9.12	63	366156	50.588	ug/l	98
46) Dibromomethane	9.21	93	215226	49.327	ug/l	98
47) Bromodichloromethane	9.40	83	459608	50.663	ug/l	100
48) Methyl methacrylate	9.20	41	212493	44.975	ug/l	91
49) 1,4-Dioxane	9.20	88	64740	947.776	ug/l	94
51) 4-Methyl-2-Pentanone	9.99	43	1191727	245.017	ug/l	100
52) Toluene	10.16	92	855370	50.930	ug/l	99
53) t-1,3-Dichloropropene	10.38	75	462169	50.876	ug/l	100
54) cis-1,3-Dichloropropene	9.84	75	544309	50.564	ug/l	98
55) 1,1,2-Trichloroethane	10.56	97	304504	50.315	ug/l	99
56) Ethyl methacrylate	10.43	69	352734	49.268	ug/l	99
57) 1,3-Dichloropropane	10.71	76	507500	49.066	ug/l	99
58) 2-Chloroethyl Vinyl ether	9.70	63	981551	221.991	ug/l	99
59) 2-Hexanone	10.75	43	805365	243.907	ug/l	100
60) Dibromochloromethane	10.90	129	353397	51.782	ug/l	99
61) 1,2-Dibromoethane	11.00	107	289457	48.323	ug/l	100
64) Tetrachloroethene	10.63	164	388208	49.811	ug/l	98
65) Chlorobenzene	11.44	112	947561	49.066	ug/l	99
66) 1,1,1,2-Tetrachloroethane	11.51	131	336631	49.912	ug/l	100
67) Ethyl Benzene	11.51	91	1600416	50.449	ug/l	100
68) m/p-Xylenes	11.62	106	1262198	104.247	ug/l	99
69) o-Xylene	11.95	106	601123	51.390	ug/l	99
70) Styrene	11.96	104	991990	52.322	ug/l	100
71) Bromoform	12.13	173	239560	51.809	ug/l	99
73) Isopropylbenzene	12.25	105	1583741	49.894	ug/l	99
74) N-amyl acetate	12.07	43	357940	46.894	ug/l	99
75) 1,1,2,2-Tetrachloroethane	12.50	83	342229	45.050	ug/l	100
76) 1,2,3-Trichloropropane	12.55	75	282169m	48.653	ug/l	
77) Bromobenzene	12.53	156	418134	48.877	ug/l	97
78) n-propylbenzene	12.59	91	1877078	51.154	ug/l	100
79) 2-Chlorotoluene	12.68	91	1086698	49.917	ug/l	100
80) 1,3,5-Trimethylbenzene	12.73	105	1373973	52.199	ug/l	100
81) trans-1,4-Dichloro-2-buten	12.30	75	98075	47.551	ug/l	99
82) 4-Chlorotoluene	12.77	91	1126617	50.433	ug/l	99
83) tert-Butylbenzene	12.99	119	1184679	50.923	ug/l	100
84) 1,2,4-Trimethylbenzene	13.04	105	1396724	52.083	ug/l	99
85) sec-Butylbenzene	13.17	105	1635087	51.649	ug/l	100
86) p-Isopropyltoluene	13.29	119	1469904	53.089	ug/l	100
87) 1,3-Dichlorobenzene	13.28	146	765090	49.751	ug/l	100
88) 1,4-Dichlorobenzene	13.36	146	747380	49.130	ug/l	100
89) n-Butylbenzene	13.62	91	1284580	53.602	ug/l	100
90) Hexachloroethane	13.88	117	236284	51.738	ug/l	98
91) 1,2-Dichlorobenzene	13.65	146	727607	49.421	ug/l	99
92) 1,2-Dibromo-3-Chloropropan	14.27	75	50235	46.399	ug/l	99

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Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
93) 1,2,4-Trichlorobenzene	14.91	180	445827	52.799	ug/l	100
94) Hexachlorobutadiene	15.01	225	281978	53.623	ug/l	99
95) Naphthalene	15.13	128	868027	43.979	ug/l	100
96) 1,2,3-Trichlorobenzene	15.31	180	397456	50.730	ug/l	100

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

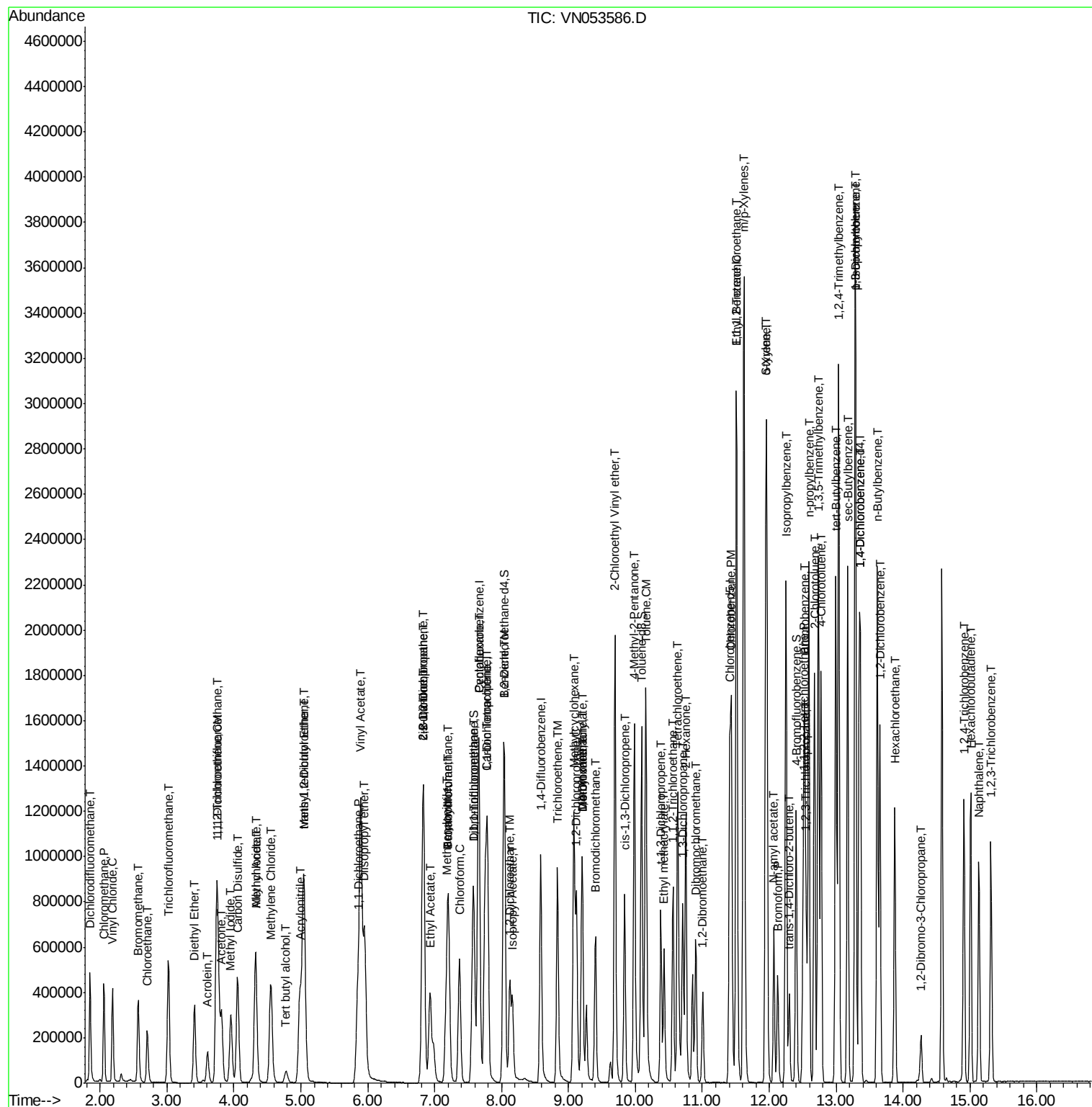
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Data File : VN053586.D
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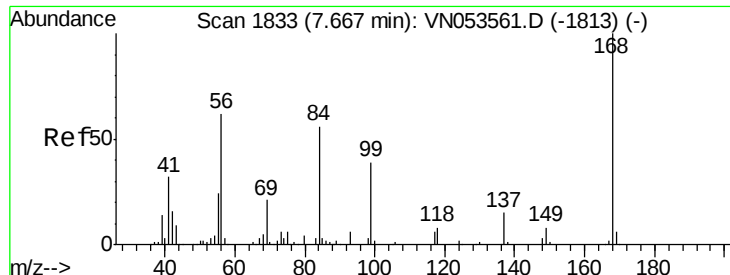
Instrument :
MSVOA_N
ClientSampleId :
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#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 7.67 min Scan# 1833

Delta R.T. 0.00 min

Lab File: VN053586.D

Acq: 4 Feb 2019 10:09

Instrument :

MSVOA_N

ClientSampleId :

VSTDCCC050

Tot Ion:168 Resp: 708128

Ion Ratio Lower Upper

168 100

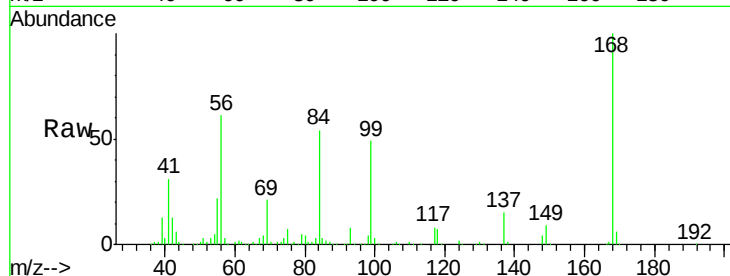
99 48.3 39.1 58.7

Manual Integrations

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2/5/2019 9:53:41 AM



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VNO

7.67

300000

250000

200000

150000

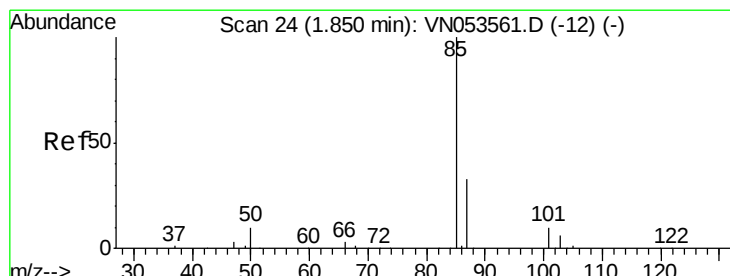
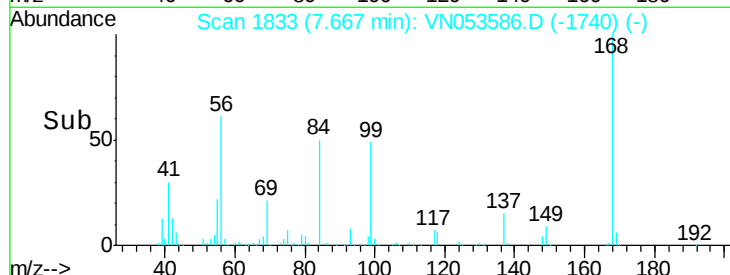
100000

50000

0

7.50 7.60 7.70 7.80 7.90

Time-->



#2

Dichlorodifluoromethane

Concen: 48.909 ug/l

RT: 1.85 min Scan# 24

Delta R.T. 0.00 min

Lab File: VN053586.D

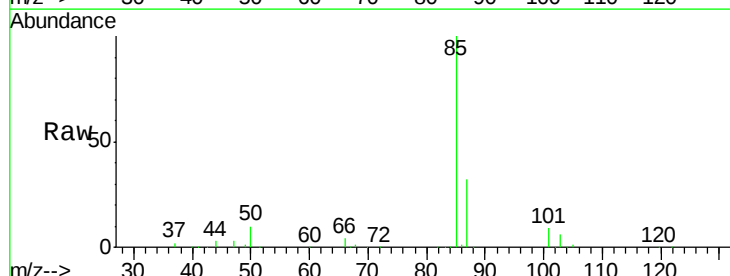
Acq: 4 Feb 2019 10:09

Tgt Ion: 85 Resp: 390391

Ion Ratio Lower Upper

85 100

87 32.5 16.2 48.5



Abundance Ion 84.90 (84.60 to 85.60): VNO

Ion 86.90 (86.60 to 87.60): VNO

1.85

300000

250000

200000

150000

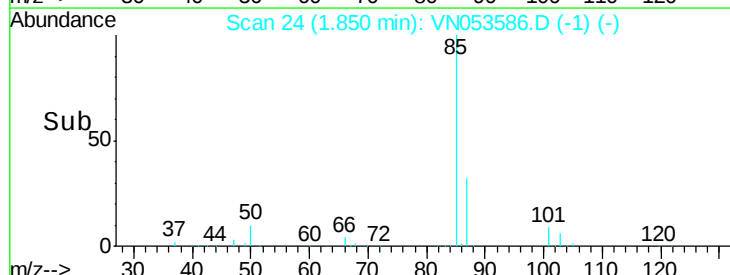
100000

50000

0

1.80 1.90

Time-->





#3

Chloromethane

Concen: 47.608 ug/l

RT: 2.06 min Scan# 88

Delta R.T. 0.00 min

Lab File: VN053586.D

Acq: 4 Feb 2019 10:09

Instrument :

MSVOA_N

ClientSampleId :

VSTDCCC050

Tot Ion: 50 Resp: 400237

Ion Ratio Lower Upper

50 100

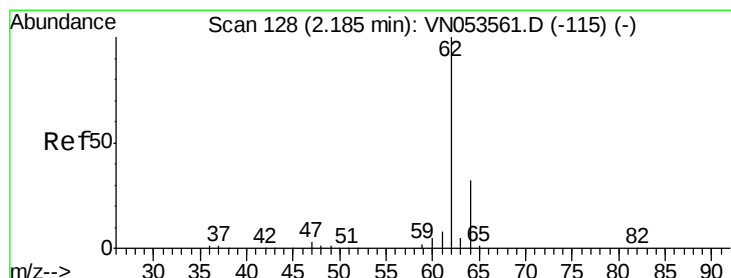
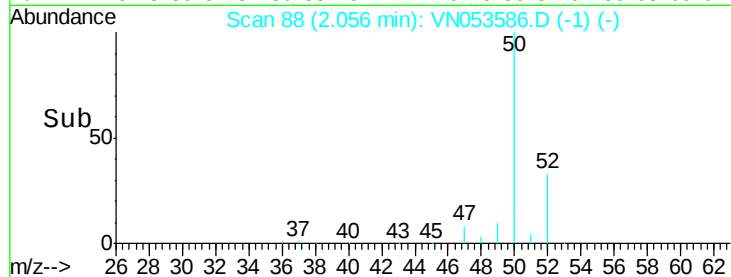
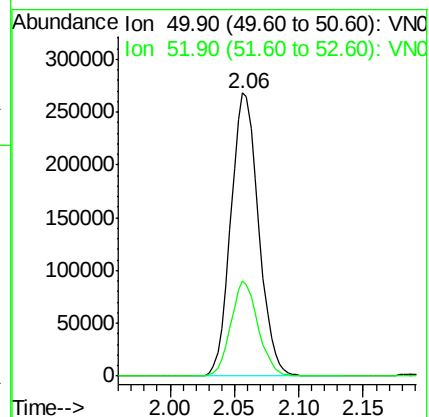
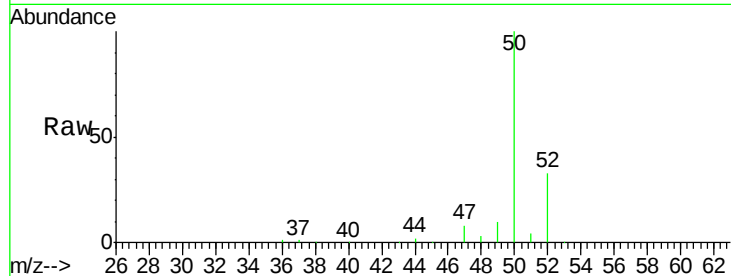
52 33.4 26.6 40.0

Manual Integrations

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#4

Vinyl Chloride

Concen: 47.899 ug/l

RT: 2.19 min Scan# 129

Delta R.T. 0.00 min

Lab File: VN053586.D

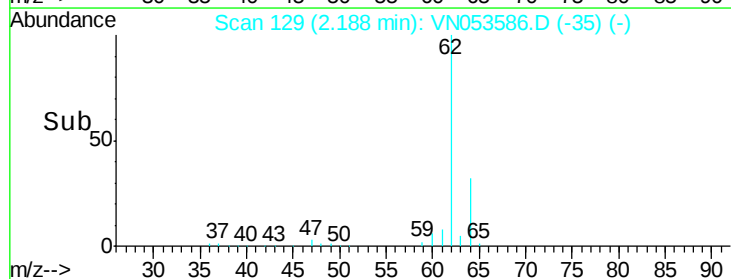
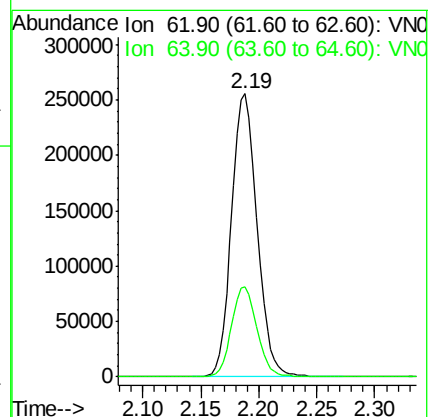
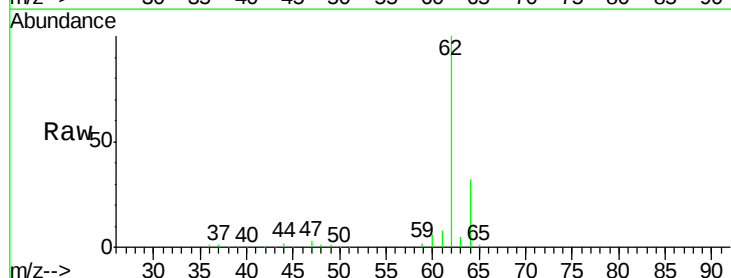
Acq: 4 Feb 2019 10:09

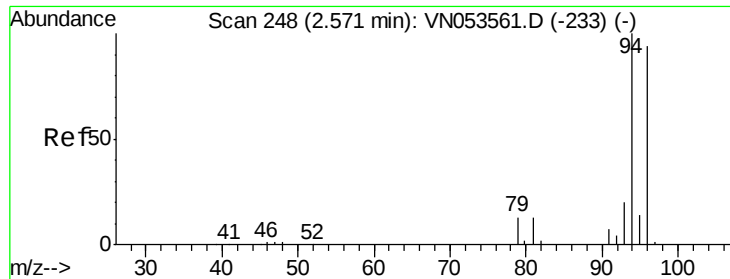
Tgt Ion: 62 Resp: 390903

Ion Ratio Lower Upper

62 100

64 32.0 25.4 38.2





#5

Bromomethane

Concen: 47.459 ug/l

RT: 2.57 min Scan# 248

Delta R.T. 0.00 min

Lab File: VN053586.D

Acq: 4 Feb 2019 10:09

Tot Ion: 94 Resp: 253241

Ion Ratio Lower Upper

94 100

96 94.0 76.8 115.2

Instrument :

MSVOA_N

ClientSampled :

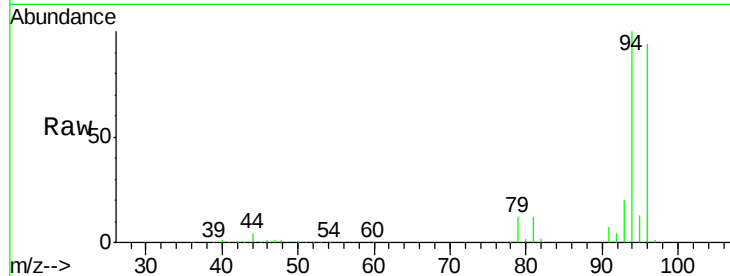
VSTDCCC050

Manual Integrations

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2/5/2019 9:53:41 AM



Abundance Ion 93.90 (93.60 to 94.60): VN0

Ion 95.90 (95.60 to 96.60): VN0

150000

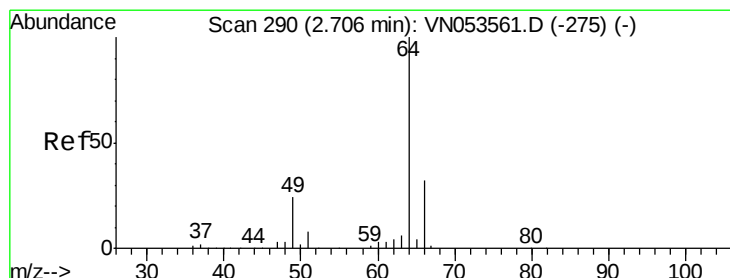
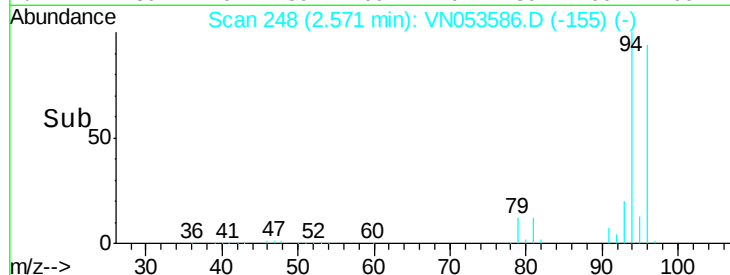
100000

50000

0

2.50 2.55 2.60 2.65

Time-->



#6

Chloroethane

Concen: 48.217 ug/l

RT: 2.71 min Scan# 290

Delta R.T. 0.00 min

Lab File: VN053586.D

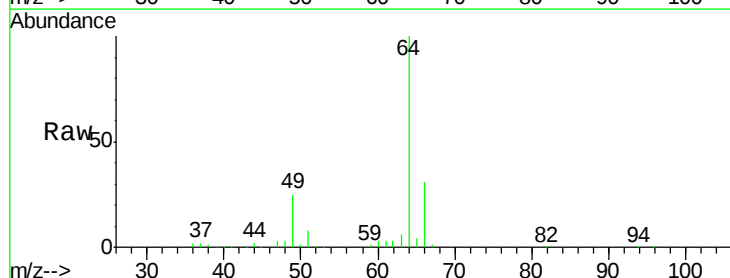
Acq: 4 Feb 2019 10:09

Tgt Ion: 64 Resp: 224866

Ion Ratio Lower Upper

64 100

66 31.1 25.1 37.7



Abundance Ion 63.90 (63.60 to 64.60): VN0

Ion 65.90 (65.60 to 66.60): VN0

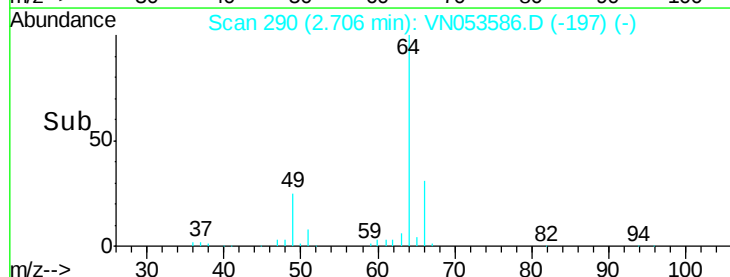
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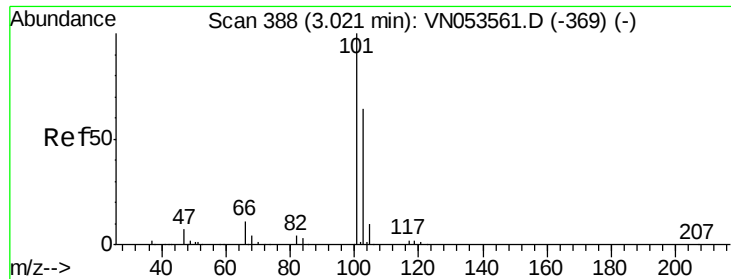
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2.60 2.70 2.80

Time-->





#7

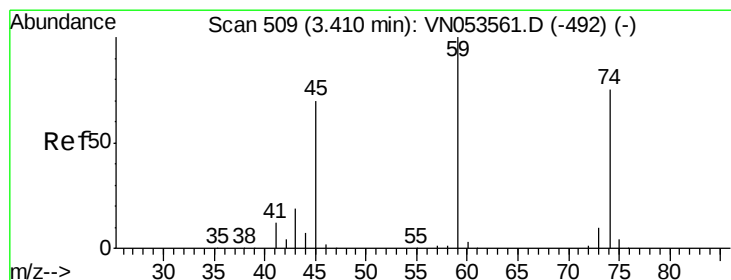
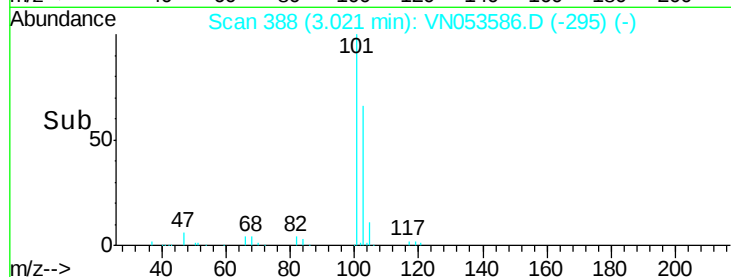
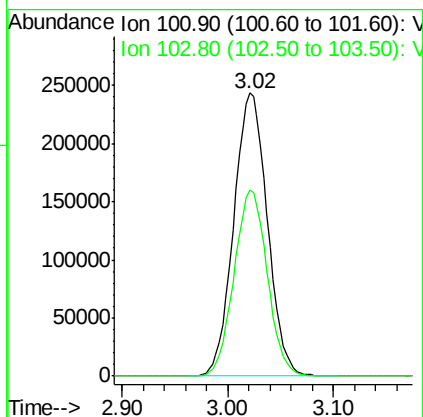
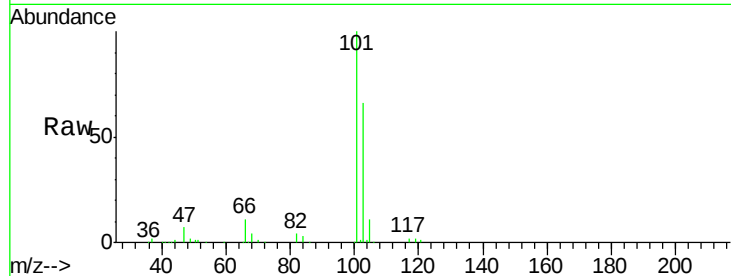
Trichlorofluoromethane
Concen: 48.593 ug/l
RT: 3.02 min Scan# 388
Delta R.T. 0.00 min
Lab File: VN053586.D
Acq: 4 Feb 2019 10:09

Instrument :
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ClientSampleId :
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Tot Ion	Ratio	Lower	Upper
101	100		
103	65.6	51.6	77.4

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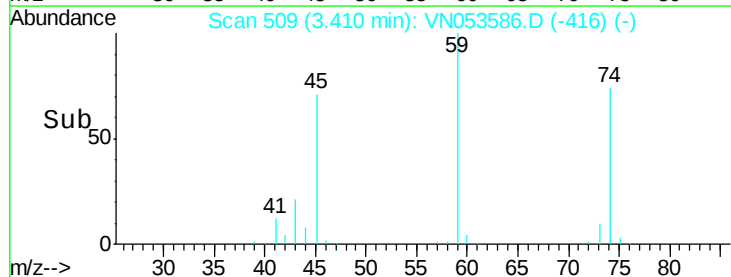
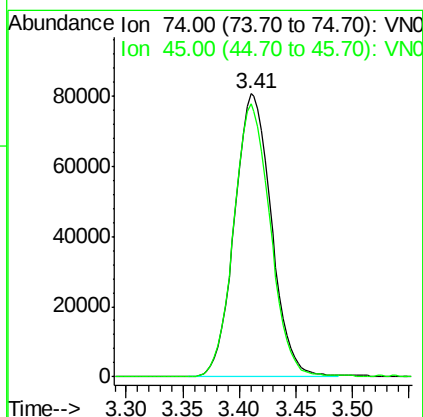
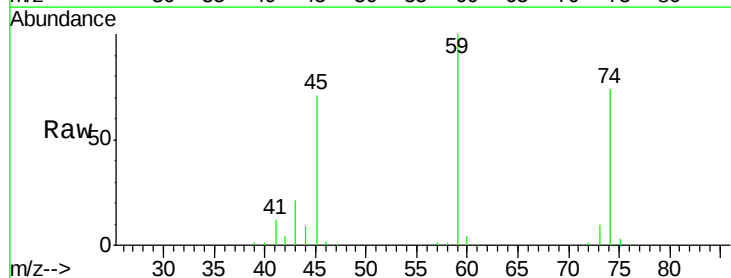
MMDadoda
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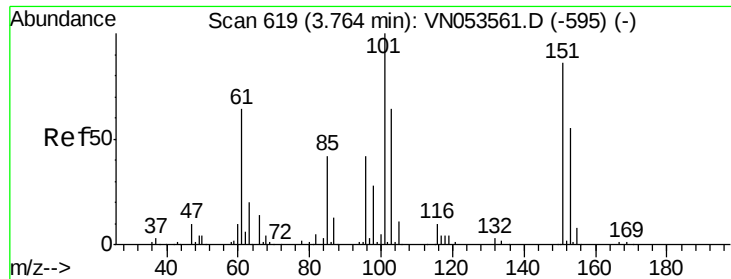


#8

Diethyl Ether
Concen: 45.277 ug/l
RT: 3.41 min Scan# 509
Delta R.T. 0.00 min
Lab File: VN053586.D
Acq: 4 Feb 2019 10:09

Tgt Ion	Ratio	Lower	Upper
74	100		
45	95.6	47.9	143.7





#9

1,1,2-Trichlorotrifluoroethane

Concen: 49.169 ug/l

RT: 3.76 min Scan# 619

Delta R.T. 0.00 min

Lab File: VN053586.D

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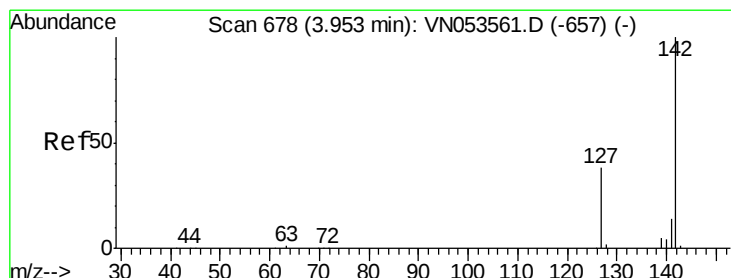
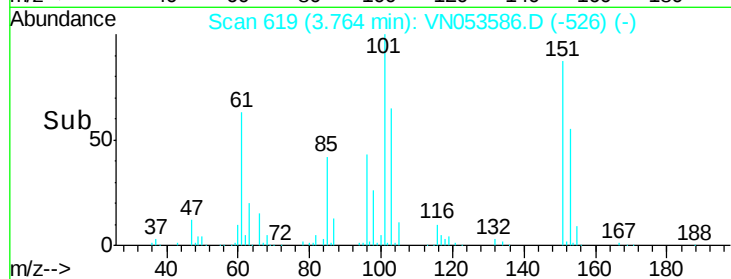
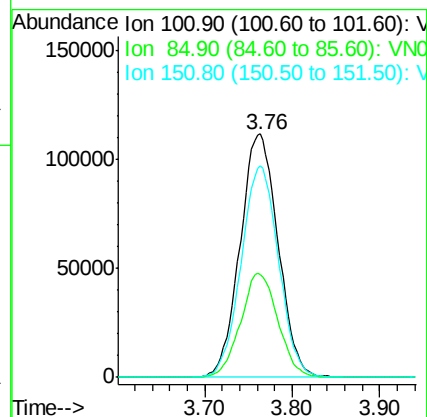
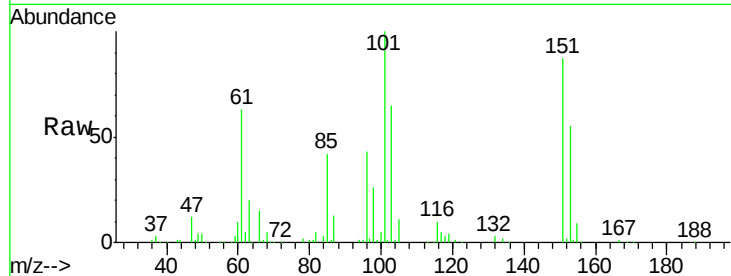
ClientSampled :

VSTDCCC050

Tot Ion:	101	Resp:	336531
Ion Ratio	Lower	Upper	
101	100		
85	42.0	32.8	49.2
151	85.9	66.9	100.3

Manual Integrations
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#10

Methyl Iodide

Concen: 46.594 ug/l

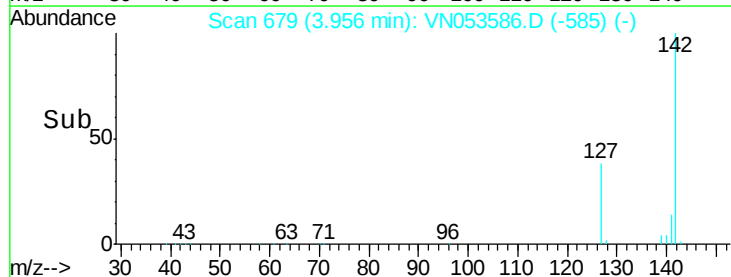
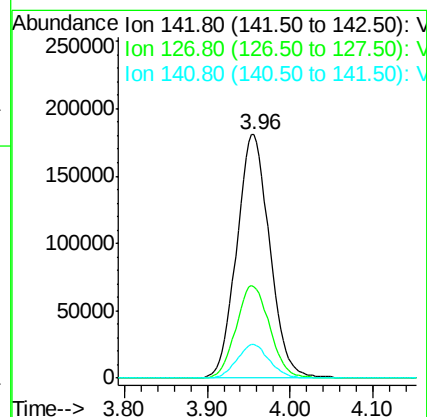
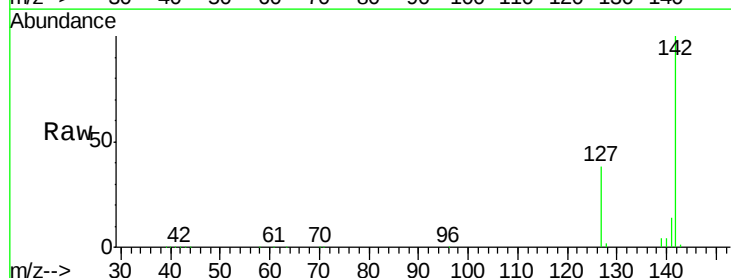
RT: 3.96 min Scan# 679

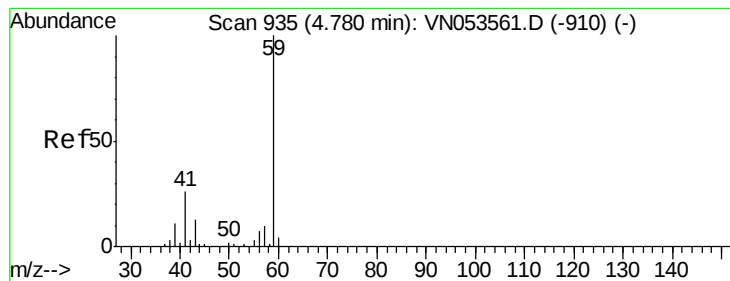
Delta R.T. 0.00 min

Lab File: VN053586.D

Acq: 4 Feb 2019 10:09

Tgt Ion:	142	Resp:	500544
Ion Ratio	Lower	Upper	
142	100		
127	38.9	31.0	46.4
141	13.7	11.1	16.7





#11

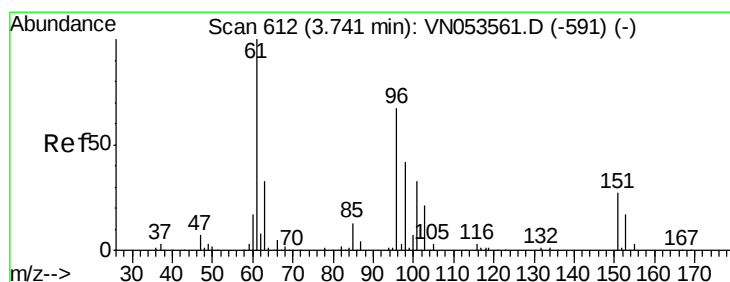
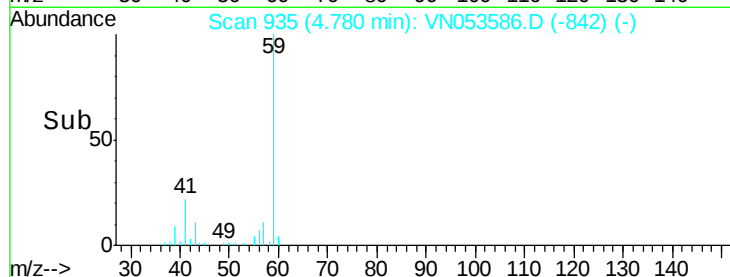
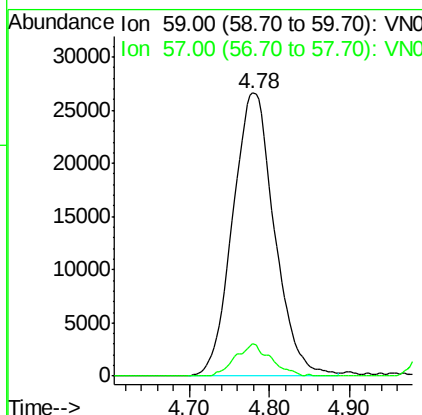
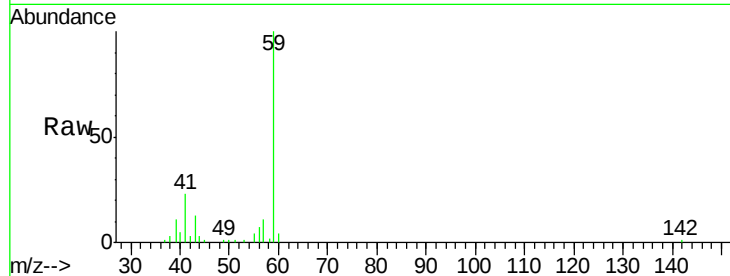
Tert butyl alcohol
 Concen: 224.670 ug/l
 RT: 4.78 min Scan# 935
 Delta R.T. 0.00 min
 Lab File: VN053586.D
 Acq: 4 Feb 2019 10:09

Instrument :
 MSVOA_N
 ClientSampleId :
 VSTDCCC050

Tot Ion	Ratio	Lower	Upper
59	100		
57	9.7	8.2	12.4

Manual Integrations
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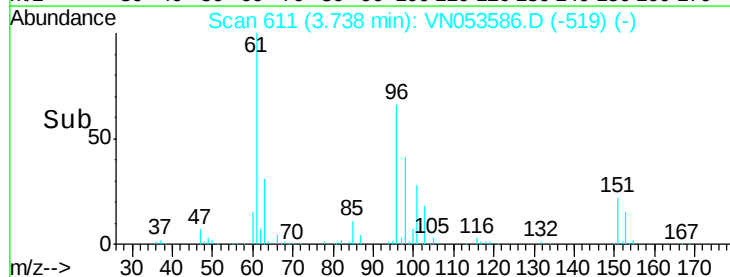
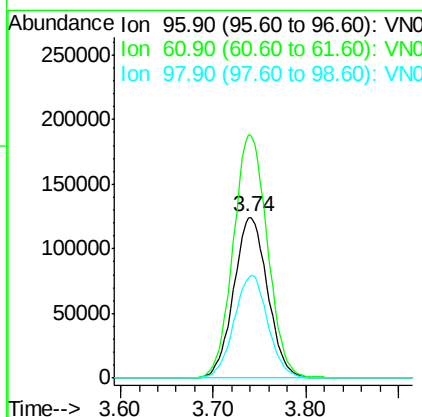
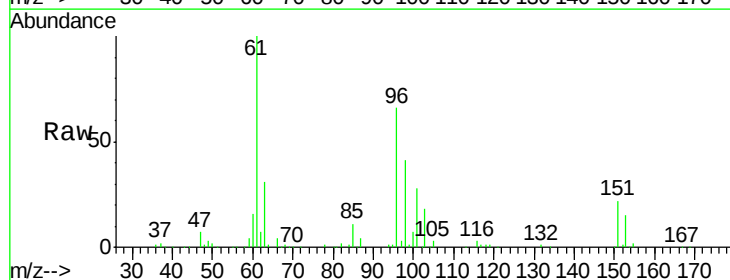
MMDadoda
 2/5/2019 9:53:41 AM

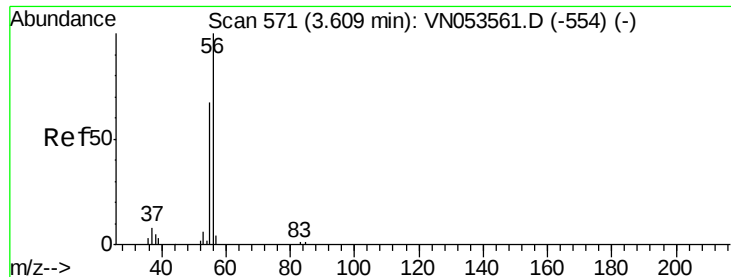


#12

1,1-Dichloroethene
 Concen: 48.146 ug/l
 RT: 3.74 min Scan# 611
 Delta R.T. -0.00 min
 Lab File: VN053586.D
 Acq: 4 Feb 2019 10:09

Tgt Ion	Ratio	Lower	Upper
96	100		
61	151.2	122.9	184.3
98	62.6	49.4	74.0





#13

Acrolein

Concen: 706.886 ug/l

RT: 3.61 min Scan# 570

Delta R.T. -0.00 min

Lab File: VN053586.D

Acq: 4 Feb 2019 10:09

Instrument :

MSVOA_N

ClientSampleId :

VSTDCCC050

Tot Ion: 56 Resp: 161809

Ion Ratio Lower Upper

56 100

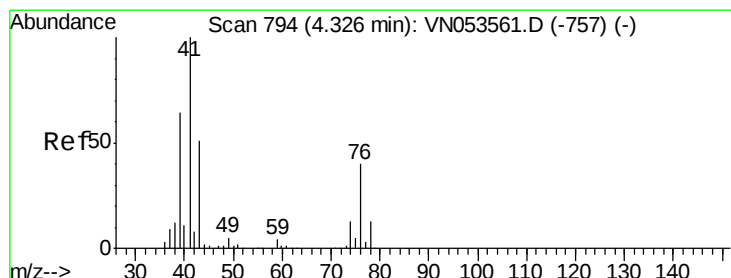
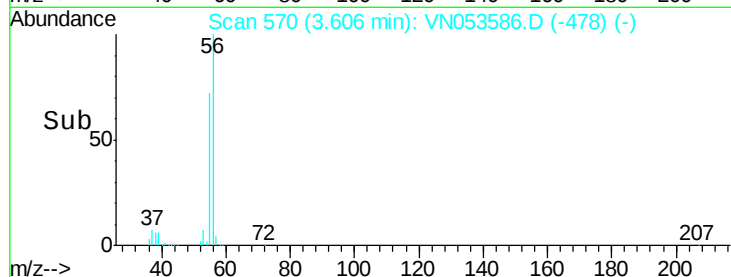
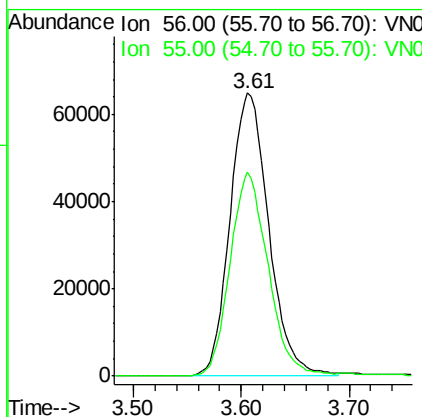
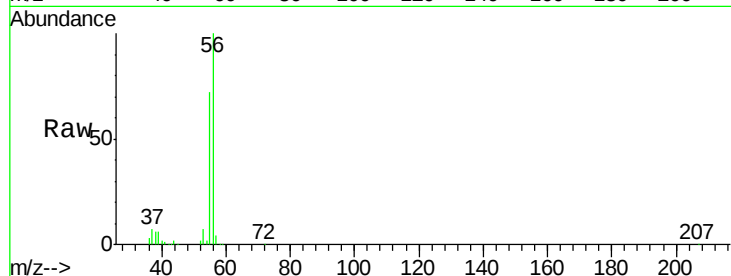
55 70.7 57.4 86.0

Manual Integrations

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#14

Allyl chloride

Concen: 47.686 ug/l

RT: 4.32 min Scan# 793

Delta R.T. -0.00 min

Lab File: VN053586.D

Acq: 4 Feb 2019 10:09

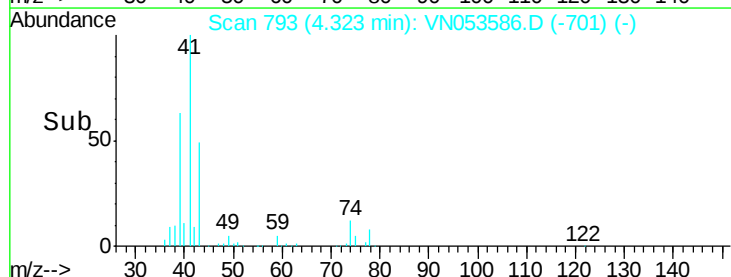
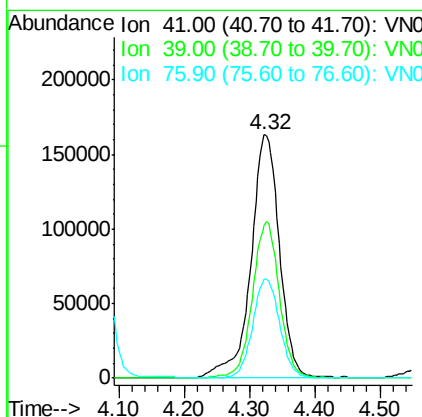
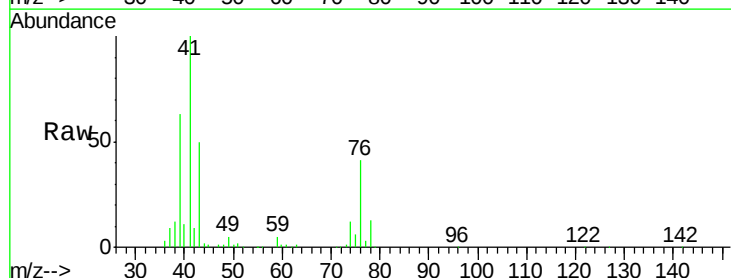
Tgt Ion: 41 Resp: 497885

Ion Ratio Lower Upper

41 100

39 60.5 48.9 73.3

76 37.9 29.4 44.2





#15

Acrylonitrile

Concen: 235.876 ug/l

RT: 4.99 min Scan# 999

Delta R.T. 0.00 min

Lab File: VN053586.D

Acq: 4 Feb 2019 10:09

Instrument :

MSVOA_N

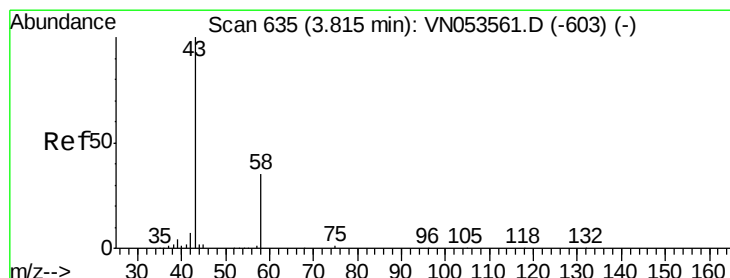
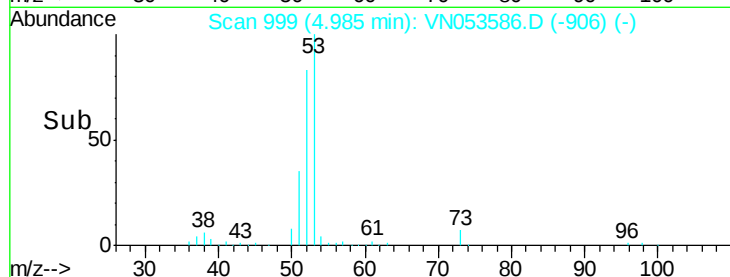
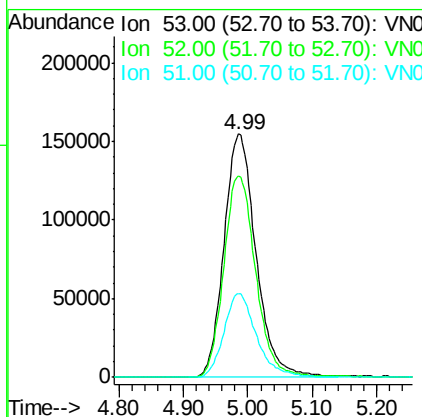
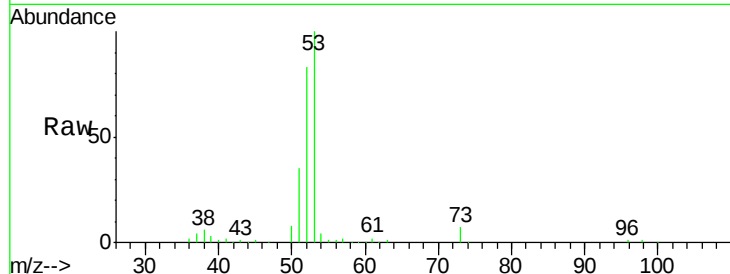
ClientSampleId :

VSTDCCC050

Tot Ion:	53	Resp:	535360
Ion	Ratio	Lower	Upper
53	100		
52	82.3	66.0	99.0
51	35.1	28.3	42.5

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#16

Acetone

Concen: 273.930 ug/l

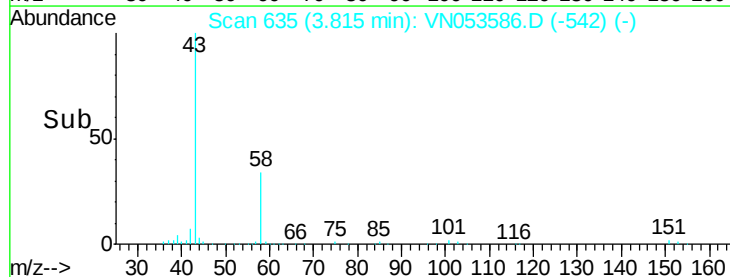
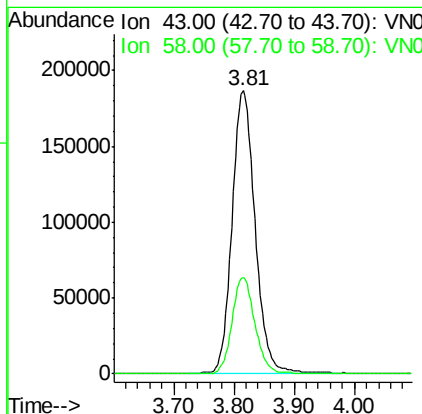
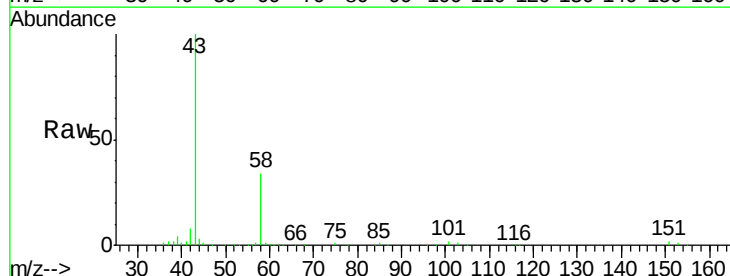
RT: 3.81 min Scan# 635

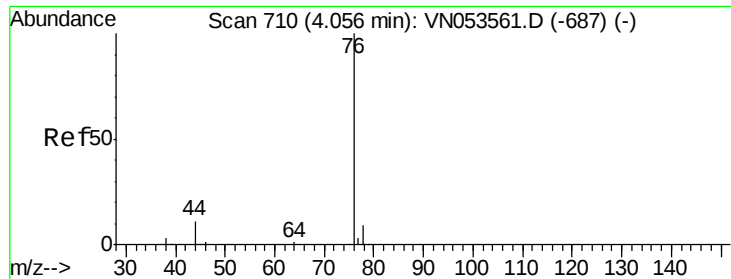
Delta R.T. 0.00 min

Lab File: VN053586.D

Acq: 4 Feb 2019 10:09

Tgt Ion:	43	Resp:	499146
Ion	Ratio	Lower	Upper
43	100		
58	34.1	27.1	40.7





#17

Carbon Disulfide

Concen: 46.807 ug/l

RT: 4.06 min Scan# 710

Delta R.T. 0.00 min

Lab File: VN053586.D

Acq: 4 Feb 2019 10:09

Instrument :

MSVOA_N

ClientSampleId :

VSTDCCC050

Tot Ion: 76 Resp: 955737

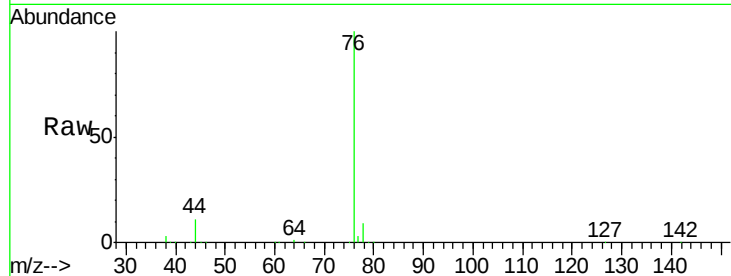
Ion Ratio Lower Upper

76 100

78 9.1 7.3 10.9

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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

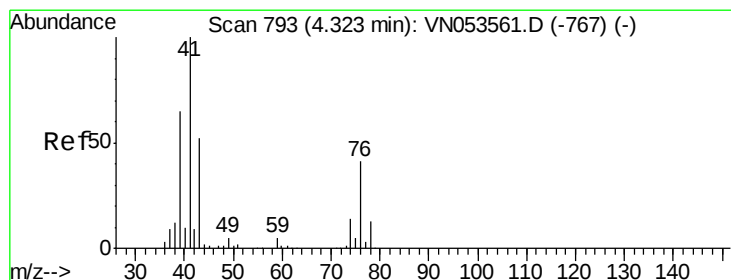
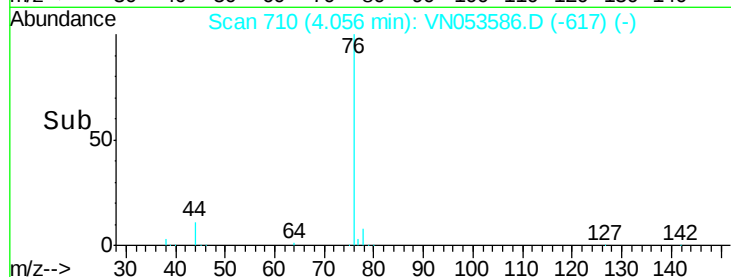
300000

200000

100000

0

Time--> 3.90 4.00 4.10 4.20



#18

Methyl Acetate

Concen: 43.676 ug/l

RT: 4.32 min Scan# 793

Delta R.T. 0.00 min

Lab File: VN053586.D

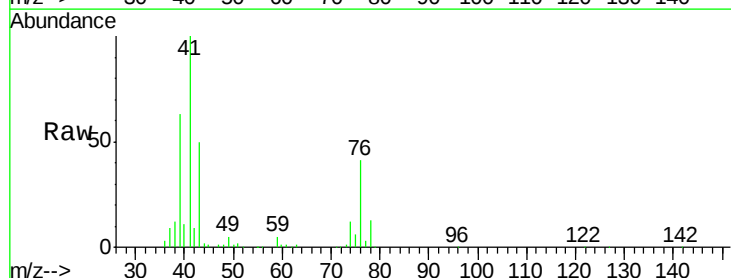
Acq: 4 Feb 2019 10:09

Tgt Ion: 43 Resp: 235693

Ion Ratio Lower Upper

43 100

74 25.2 19.4 29.2



Abundance Ion 43.00 (42.70 to 43.70): VN0

Ion 74.00 (73.70 to 74.70): VN0

4.32

80000

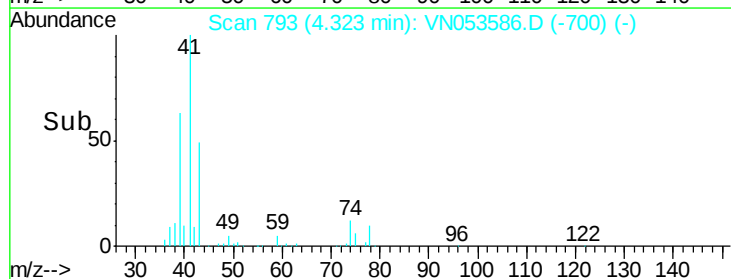
60000

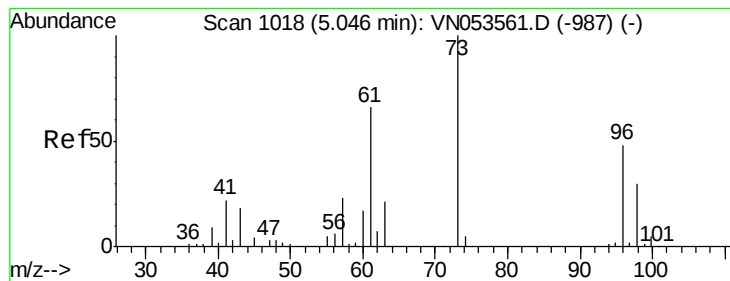
40000

20000

0

Time--> 4.20 4.30 4.40 4.50





#19

Methyl tert-butyl Ether

Concen: 47.008 ug/l

RT: 5.05 min Scan# 1018

Delta R.T. 0.00 min

Lab File: VN053586.D

Acq: 4 Feb 2019 10:09

Tot Ion: 73 Resp: 781433

Ion Ratio Lower Upper

73 100

57 22.3 18.3 27.5

Instrument :

MSVOA_N

ClientSampleId :

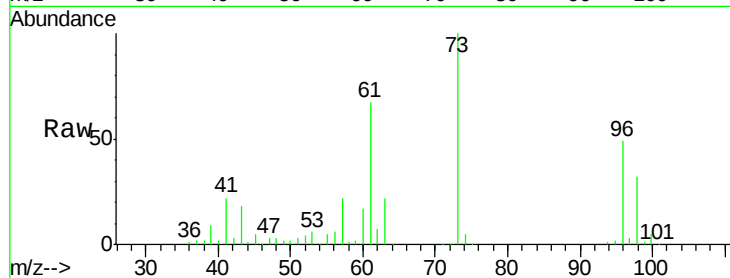
VSTDCCC050

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Abundance Ion 73.00 (72.70 to 73.70): VN053561.D (-987) (-)

Ion 57.00 (56.70 to 57.70): VN053561.D (-987) (-)

250000

200000

150000

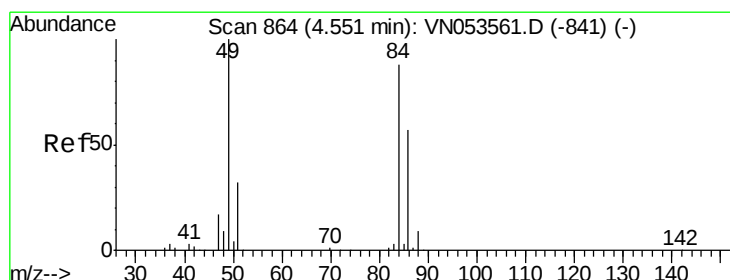
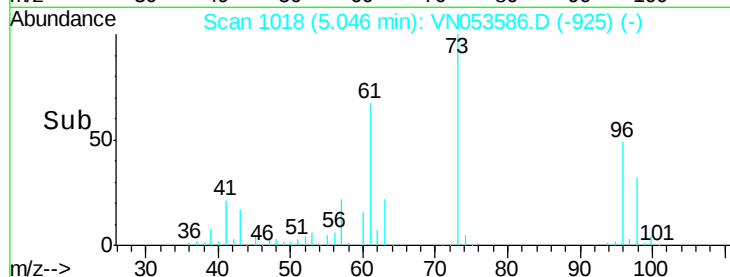
100000

50000

0

4.90 5.00 5.10 5.20

Time-->



#20

Methylene Chloride

Concen: 46.101 ug/l

RT: 4.55 min Scan# 864

Delta R.T. 0.00 min

Lab File: VN053586.D

Acq: 4 Feb 2019 10:09

Tgt Ion: 84 Resp: 352428

Ion Ratio Lower Upper

84 100

49 116.4 94.3 141.5

51 36.4 29.4 44.2

86 63.5 51.4 77.0

Abundance Ion 83.90 (83.60 to 84.60): VN053561.D (-841) (-)

Ion 48.90 (48.60 to 49.60): VN053561.D (-841) (-)

Ion 50.90 (50.60 to 51.60): VN053561.D (-841) (-)

Ion 85.90 (85.60 to 86.60): VN053561.D (-841) (-)

200000

150000

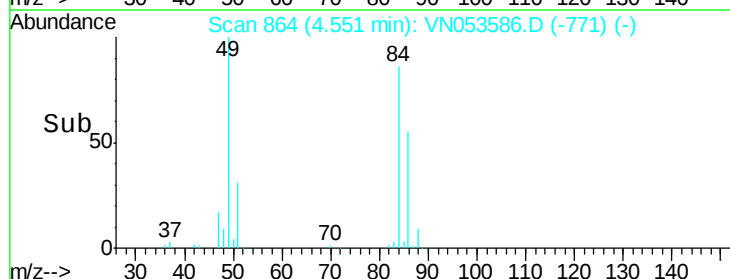
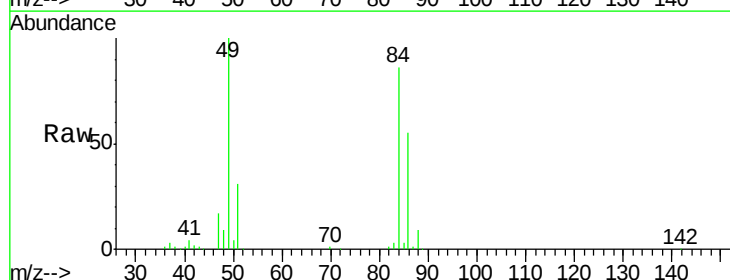
100000

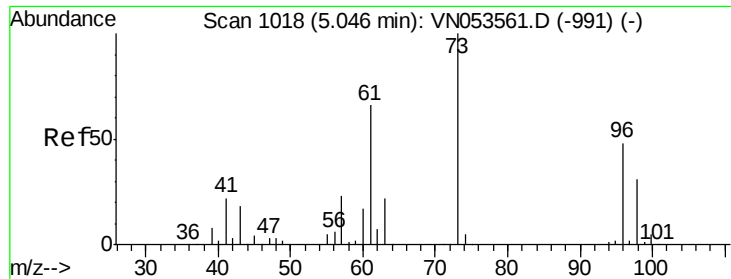
50000

0

4.40 4.50 4.60 4.70

Time-->





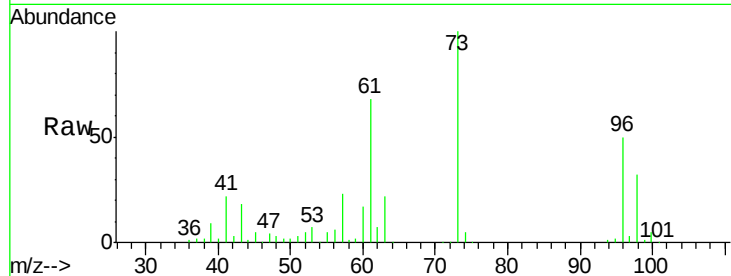
#21
trans-1,2-Dichloroethene
Concen: 47.011 ug/l
RT: 5.04 min Scan# 1017
Delta R.T. -0.00 min
Lab File: VN053586.D
Acq: 4 Feb 2019 10:09

Instrument :
MSVOA_N
ClientSampleId :
VSTDCCC050

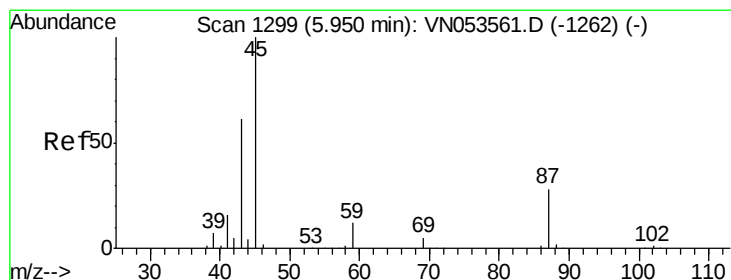
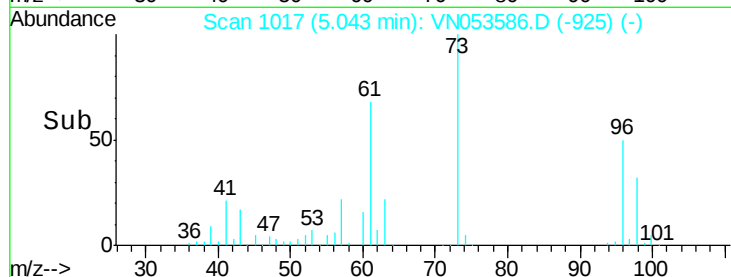
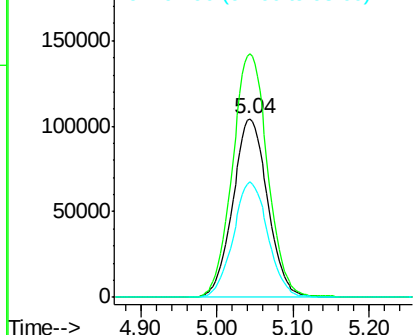
Tot Ion	Ratio	Lower	Upper
96	100		
61	136.4	110.1	165.1
98	64.4	50.0	75.0

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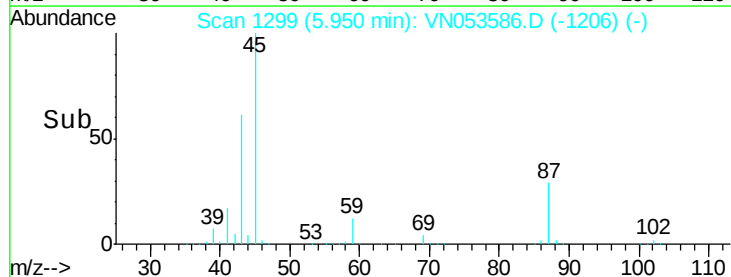
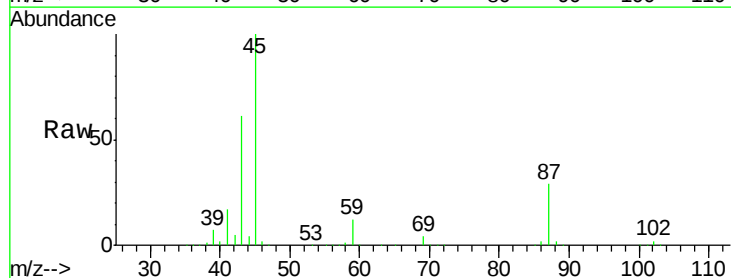
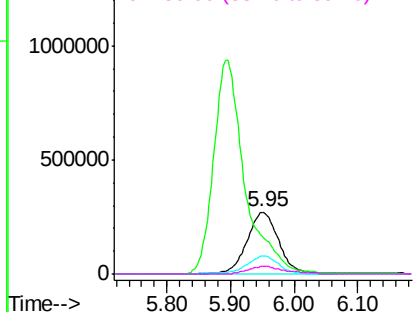
Abundance Ion 95.90 (95.60 to 96.60): VNC
Ion 60.90 (60.60 to 61.60): VNC
Ion 97.90 (97.60 to 98.60): VNC

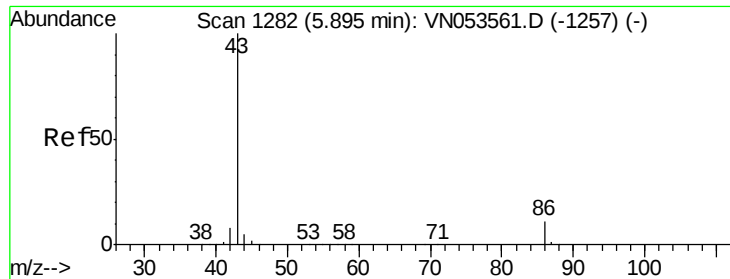


#22
Diisopropyl ether
Concen: 49.230 ug/l
RT: 5.95 min Scan# 1299
Delta R.T. 0.00 min
Lab File: VN053586.D
Acq: 4 Feb 2019 10:09

Tgt Ion	Ratio	Lower	Upper
45	100		
43	58.8	44.2	66.4
87	28.7	22.7	34.1
59	11.9	9.4	14.2

Abundance Ion 45.00 (44.70 to 45.70): VNC
Ion 43.00 (42.70 to 43.70): VNC
Ion 87.00 (86.70 to 87.70): VNC
Ion 59.00 (58.70 to 59.70): VNC





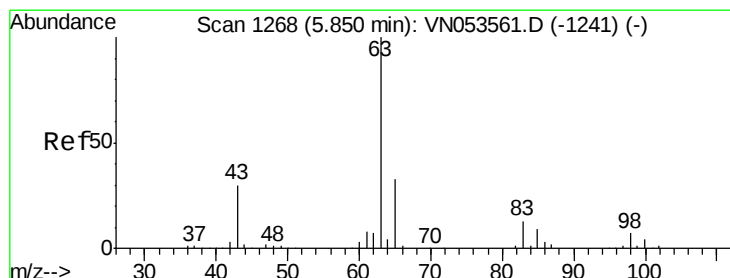
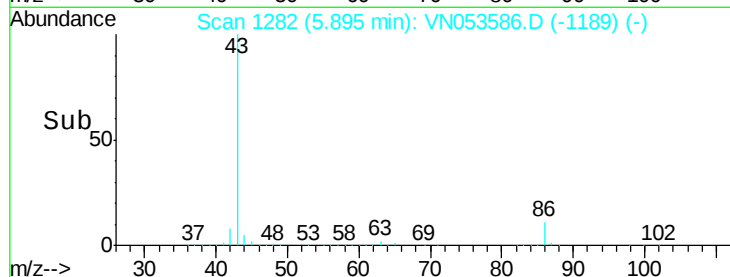
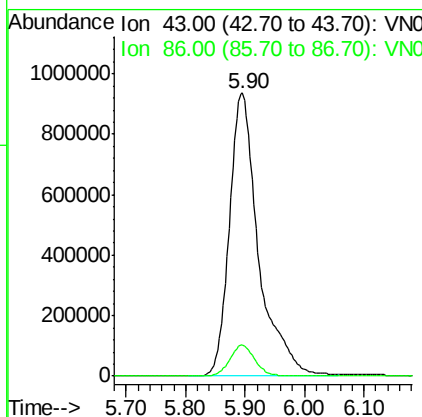
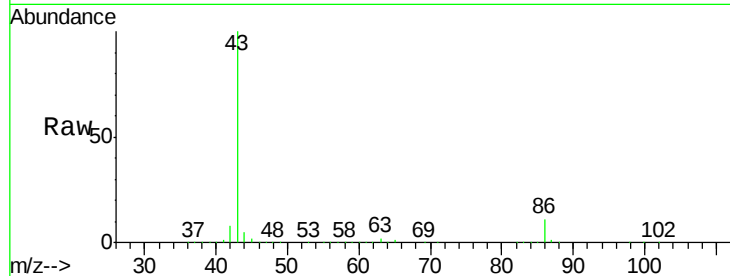
#23
 Vinyl Acetate
 Concen: 239.097 ug/l
 RT: 5.90 min Scan# 1282
 Delta R.T. 0.00 min
 Lab File: VN053586.D
 Acq: 4 Feb 2019 10:09

Instrument :
 MSVOA_N
 ClientSampleID :
 VSTDCCC050

Tot Ion: 43 Resp: 3199899
 Ion Ratio Lower Upper
 43 100
 86 10.9 8.4 12.6

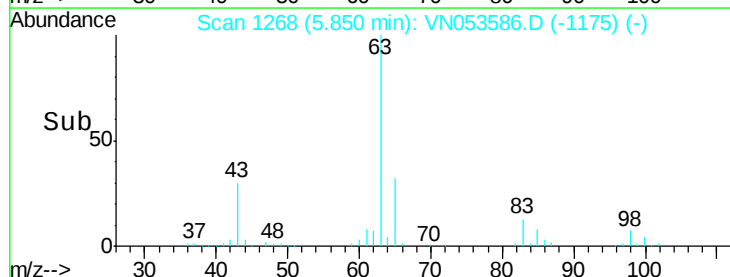
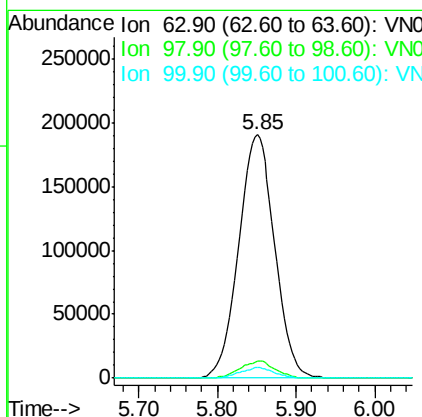
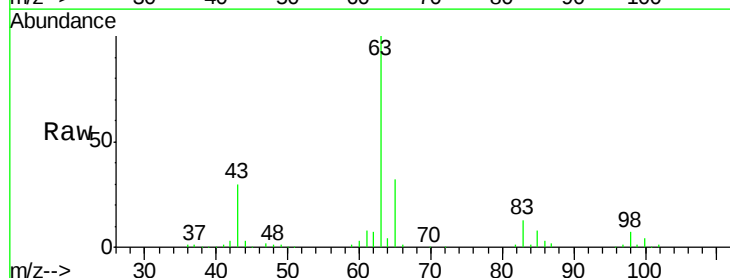
Manual Integrations
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#24
 1,1-Dichloroethane
 Concen: 47.442 ug/l
 RT: 5.85 min Scan# 1268
 Delta R.T. 0.00 min
 Lab File: VN053586.D
 Acq: 4 Feb 2019 10:09

Tgt Ion: 63 Resp: 612169
 Ion Ratio Lower Upper
 63 100
 98 6.9 3.3 9.9
 100 4.4 2.1 6.5





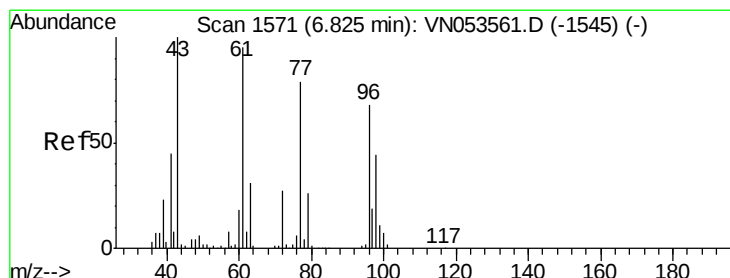
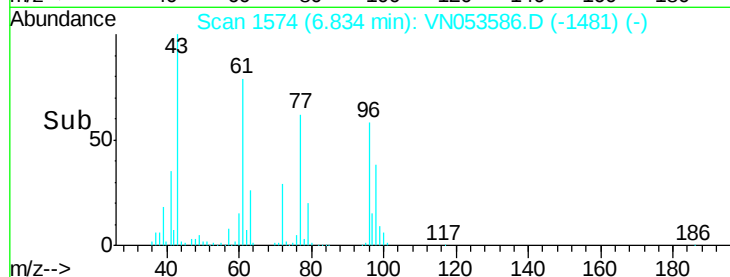
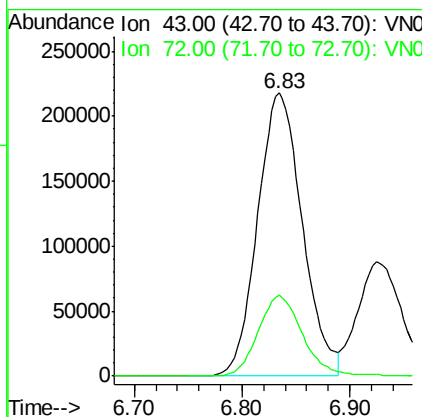
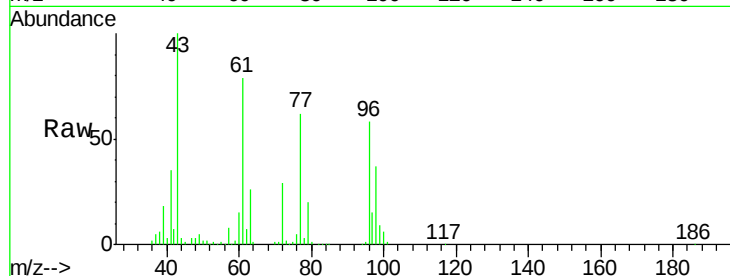
#25
2-Butanone
Concen: 240.629 ug/l
RT: 6.83 min Scan# 1574
Delta R.T. 0.00 min
Lab File: VN053586.D
Acq: 4 Feb 2019 10:09

Instrument :
MSVOA_N
ClientSampled :
VSTDCCC050

Tot Ion: 43 Resp: 625349
Ion Ratio Lower Upper
43 100
72 28.5 22.0 33.0

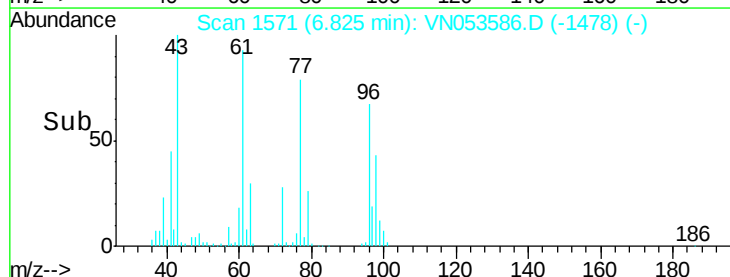
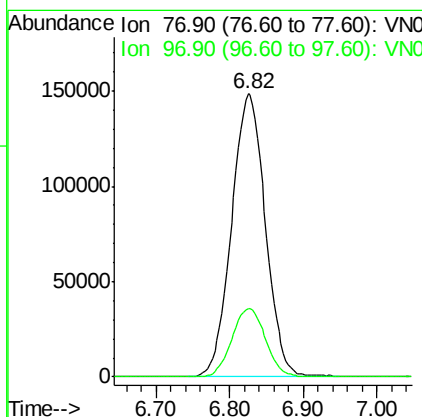
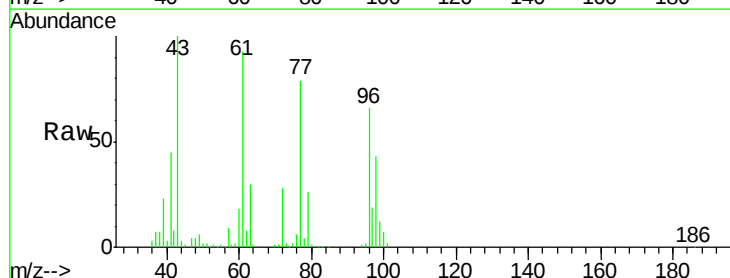
Manual Integrations
APPROVED

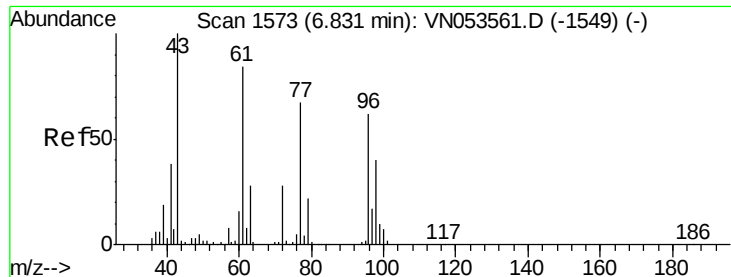
MMDadoda
2/5/2019 9:53:41 AM



#26
2,2-Dichloropropane
Concen: 48.067 ug/l
RT: 6.82 min Scan# 1571
Delta R.T. 0.00 min
Lab File: VN053586.D
Acq: 4 Feb 2019 10:09

Tgt Ion: 77 Resp: 473468
Ion Ratio Lower Upper
77 100
97 24.1 12.2 36.6





#27

cis-1,2-Dichloroethene

Concen: 47.637 ug/l

RT: 6.83 min Scan# 1573

Delta R.T. 0.00 min

Lab File: VN053586.D

Acq: 4 Feb 2019 10:09

Instrument :

MSVOA_N

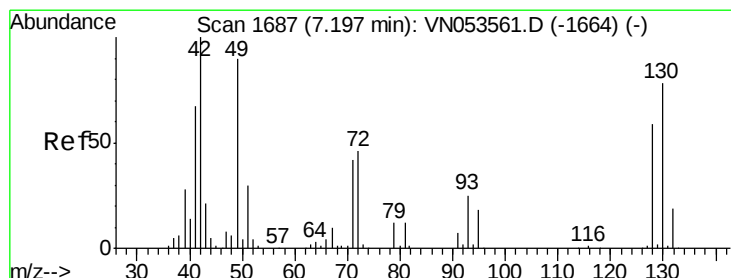
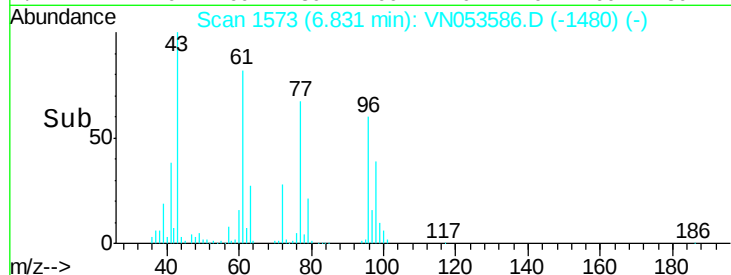
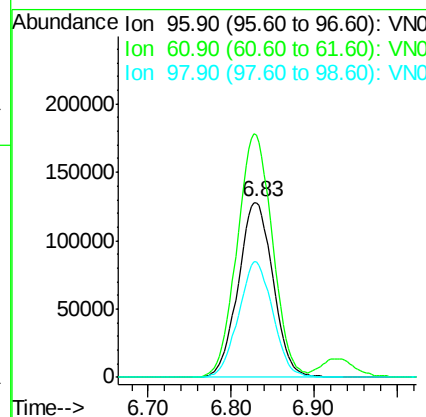
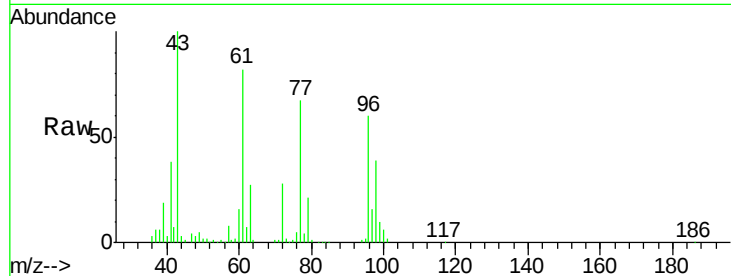
ClientSampleId :

VSTDCCC050

Tot Ion:	96	Resp:	374747
Ion	Ratio	Lower	Upper
96	100		
61	140.8	0.0	283.8
98	65.0	0.0	129.2

Manual Integrations
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#28

Bromochloromethane

Concen: 50.050 ug/l

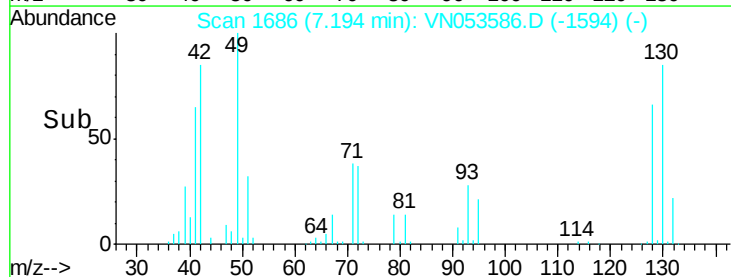
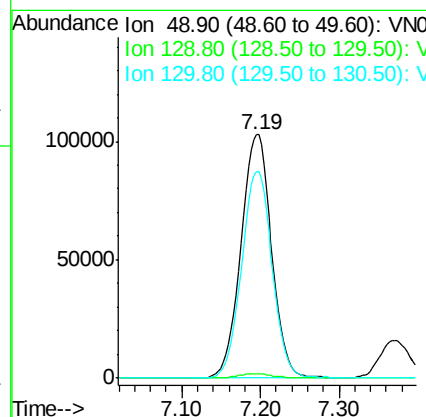
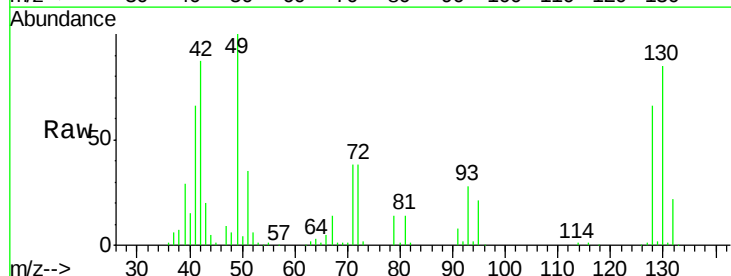
RT: 7.19 min Scan# 1686

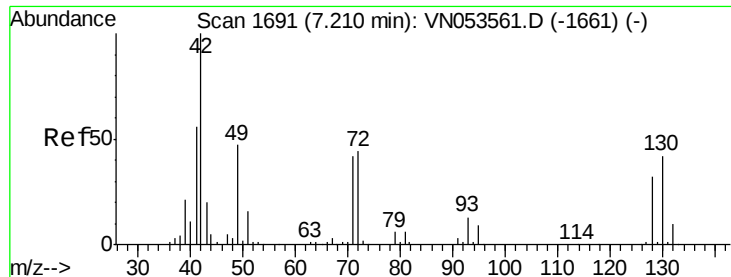
Delta R.T. -0.00 min

Lab File: VN053586.D

Acq: 4 Feb 2019 10:09

Tgt Ion:	49	Resp:	280264
Ion	Ratio	Lower	Upper
49	100		
129	1.9	0.0	4.0
130	85.0	66.3	99.5





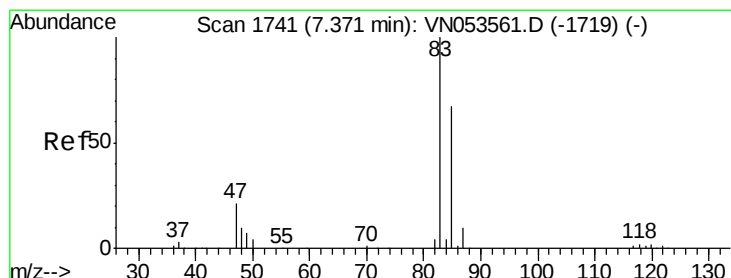
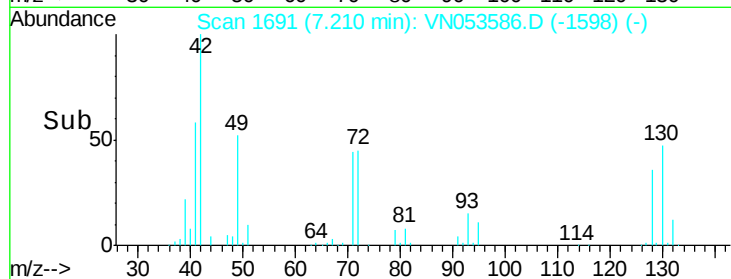
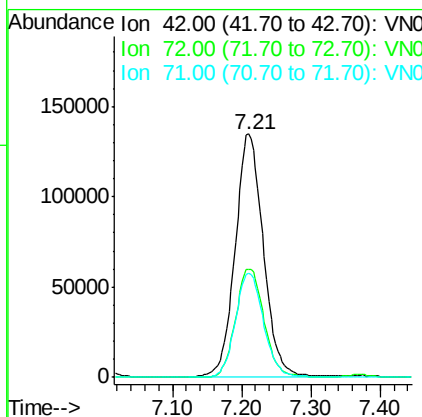
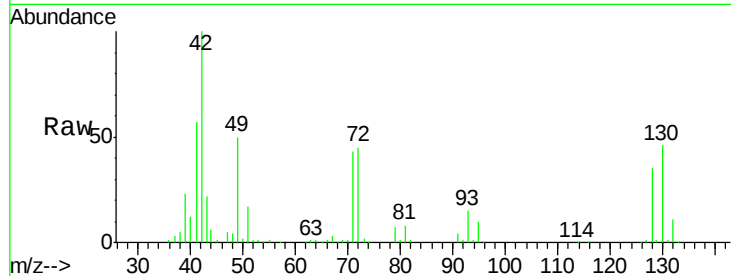
#29
Tetrahydrofuran
Concen: 228.649 ug/l
RT: 7.21 min Scan# 1691
Delta R.T. 0.00 min
Lab File: VN053586.D
Acq: 4 Feb 2019 10:09

Instrument :
MSVOA_N
ClientSampleId :
VSTDCCC050

Tot Ion	Ratio	Lower	Upper
42	100		
72	45.1	35.2	52.8
71	42.9	33.0	49.4

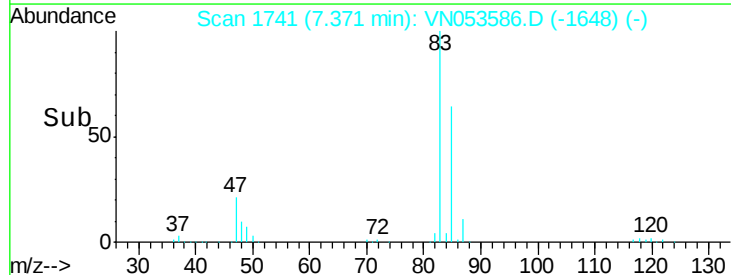
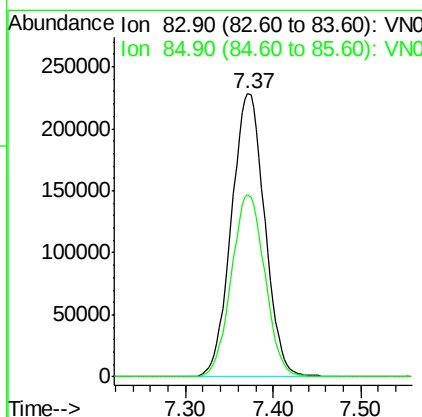
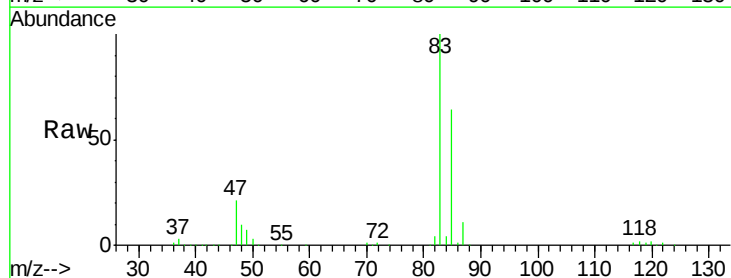
Manual Integrations
APPROVED

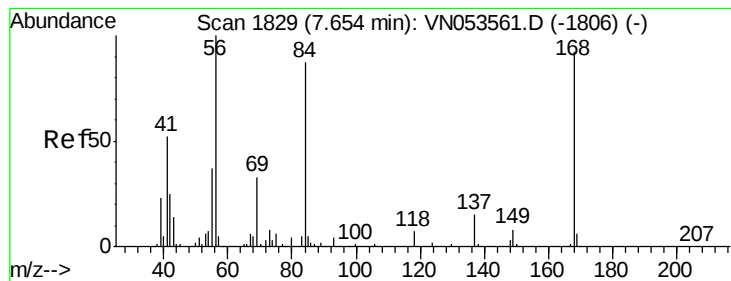
MMDadoda
2/5/2019 9:53:41 AM



#30
Chloroform
Concen: 47.260 ug/l
RT: 7.37 min Scan# 1741
Delta R.T. 0.00 min
Lab File: VN053586.D
Acq: 4 Feb 2019 10:09

Tgt Ion	Ratio	Lower	Upper
83	100		
85	64.3	52.2	78.2





#31

Cyclohexane

Concen: 47.222 ug/l

RT: 7.65 min Scan# 1829

Delta R.T. 0.00 min

Lab File: VN053586.D

Acq: 4 Feb 2019 10:09

Instrument :

MSVOA_N

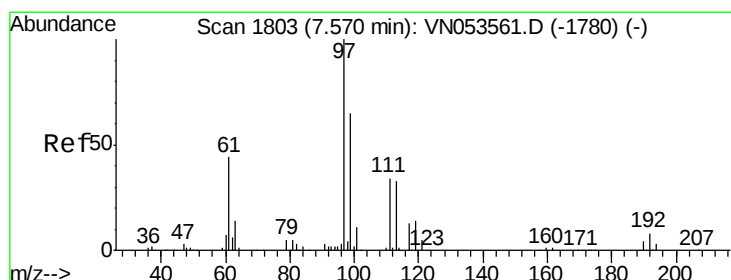
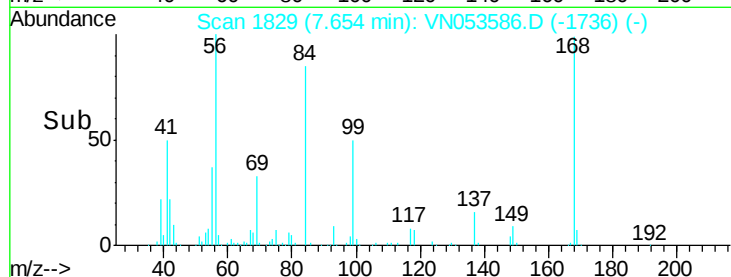
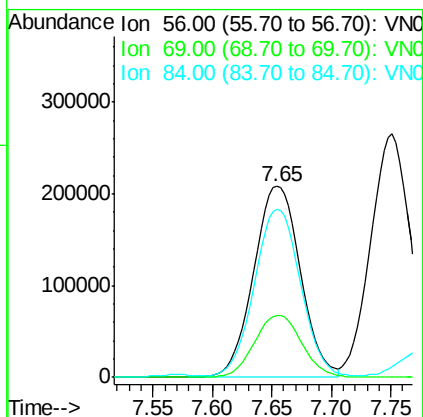
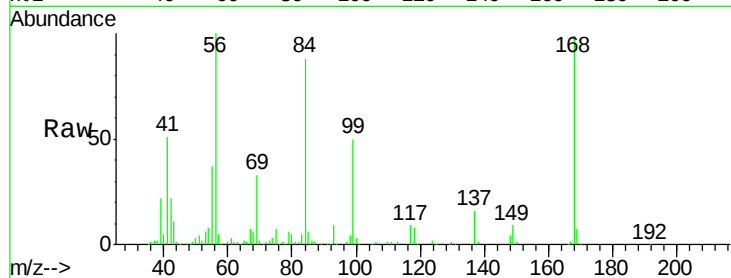
ClientSampleId :

VSTDCCC050

Tot Ion:	56	Resp:	567435
Ion Ratio	Lower	Upper	
56	100		
69	32.6	26.4	39.6
84	86.7	67.9	101.9

Manual Integrations
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#32

1,1,1-Trichloroethane

Concen: 48.162 ug/l

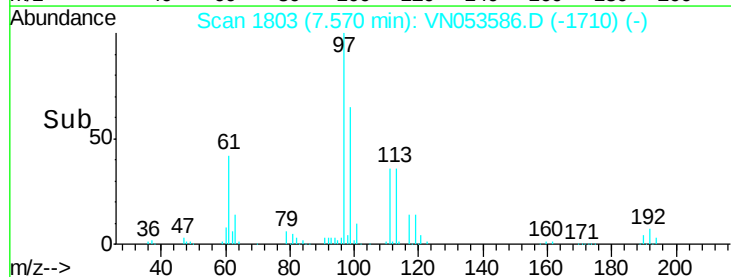
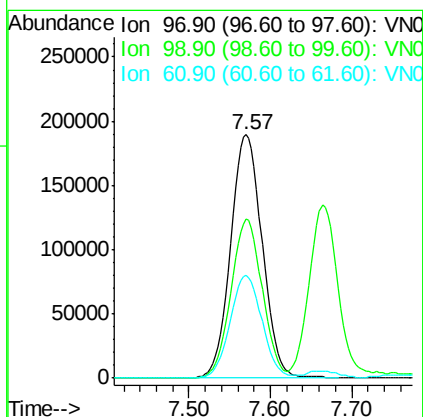
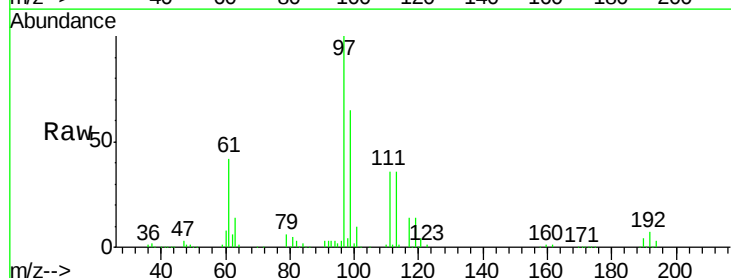
RT: 7.57 min Scan# 1803

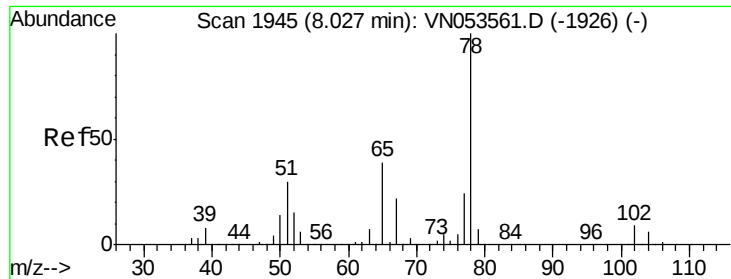
Delta R.T. 0.00 min

Lab File: VN053586.D

Acq: 4 Feb 2019 10:09

Tgt Ion:	97	Resp:	512690
Ion Ratio	Lower	Upper	
97	100		
99	64.5	52.0	78.0
61	42.6	34.4	51.6





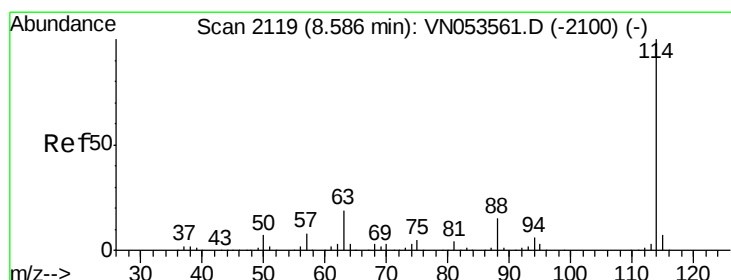
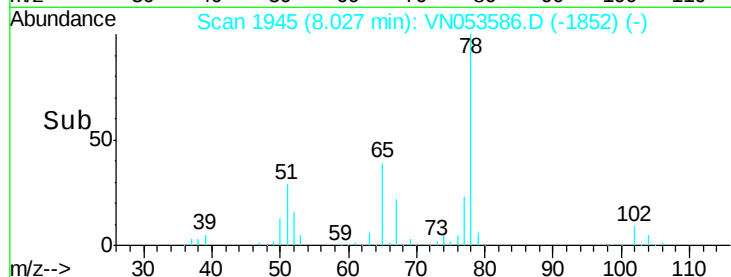
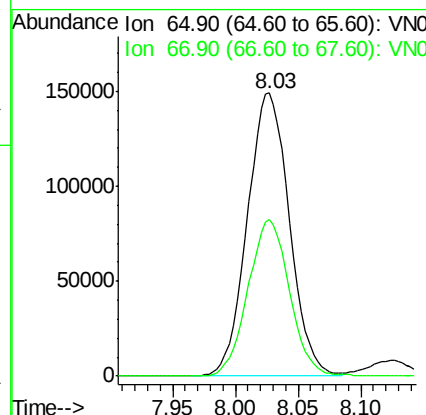
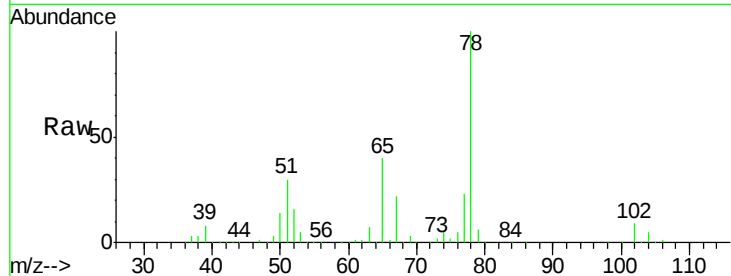
#33
 1,2-Dichloroethane-d4
 Concen: 48.162 ug/l
 RT: 8.03 min Scan# 1945
 Delta R.T. 0.00 min
 Lab File: VN053586.D
 Acq: 4 Feb 2019 10:09

Instrument :
 MSVOA_N
 ClientSampleId :
 VSTDCCC050

Tot Ion	Ratio	Resp	Lower	Upper
65	100	347607		
67	54.6	0.0	111.2	

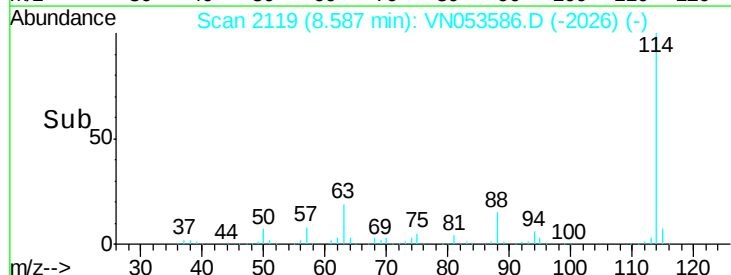
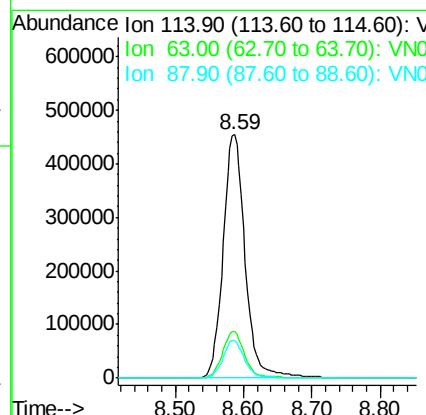
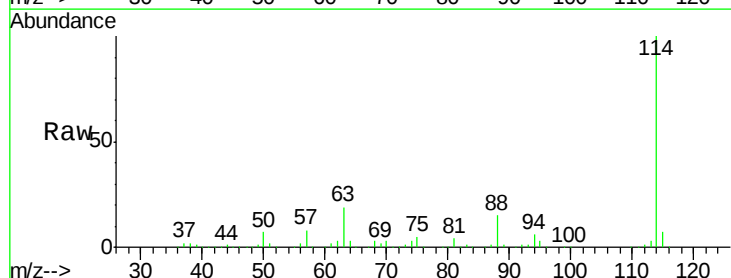
Manual Integrations
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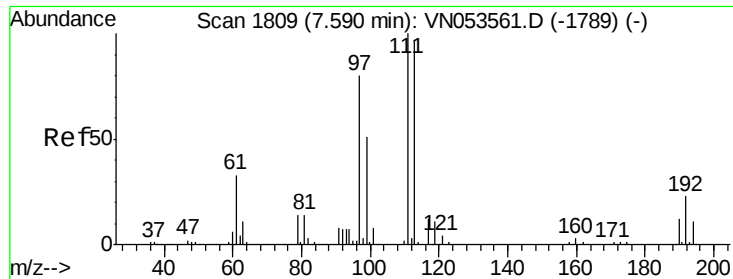
MMDadoda
 2/5/2019 9:53:41 AM



#34
 1,4-Difluorobenzene
 Concen: 50.000 ug/l
 RT: 8.59 min Scan# 2119
 Delta R.T. 0.00 min
 Lab File: VN053586.D
 Acq: 4 Feb 2019 10:09

Tgt Ion	Ratio	Resp	Lower	Upper
114	100	1018008		
63	19.2	0.0	38.6	
88	15.3	0.0	30.4	





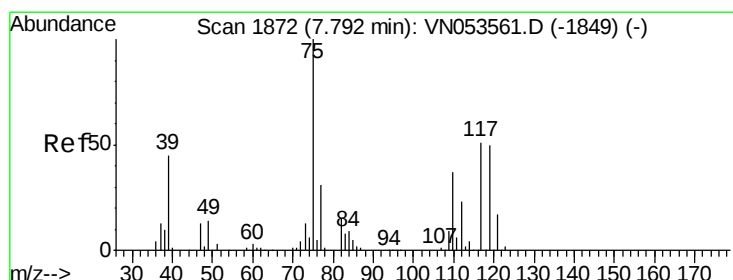
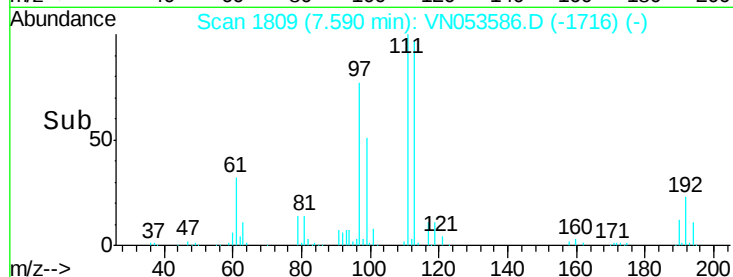
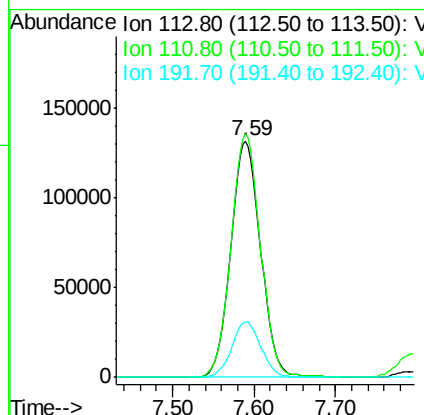
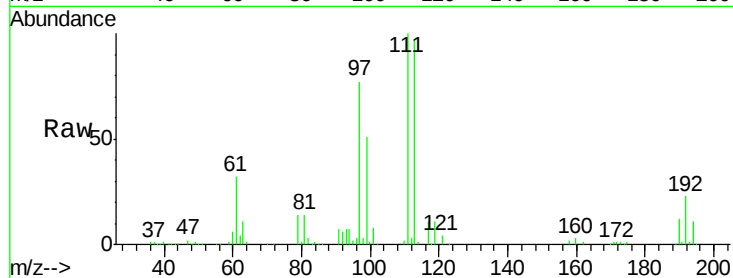
#35
 Dibromofluoromethane
 Concen: 50.000 ug/l
 RT: 7.59 min Scan# 1809
 Delta R.T. 0.00 min
 Lab File: VN053586.D
 Acq: 4 Feb 2019 10:09

Instrument :
 MSVOA_N
 ClientSampleId :
 VSTDCCC050

Tot Ion	Ratio	Resp	Lower	Upper
113	100			
111	101.6	81.1	121.7	
192	23.1	18.2	27.2	

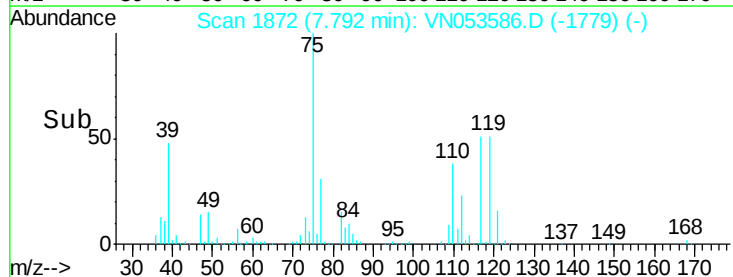
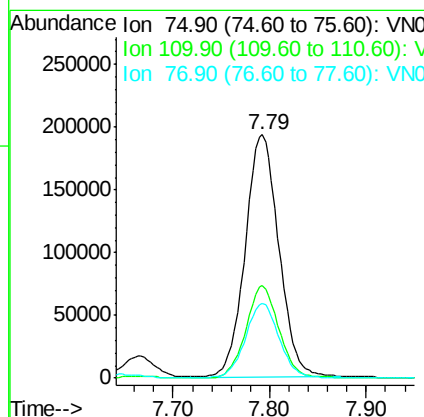
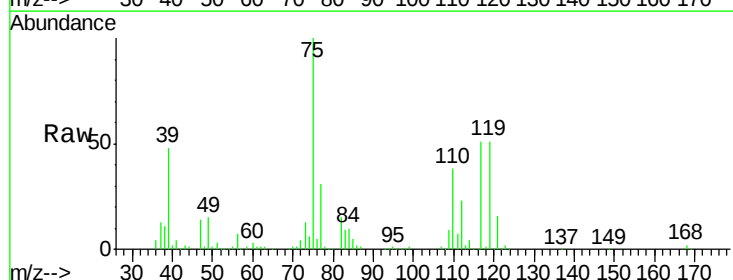
Manual Integrations
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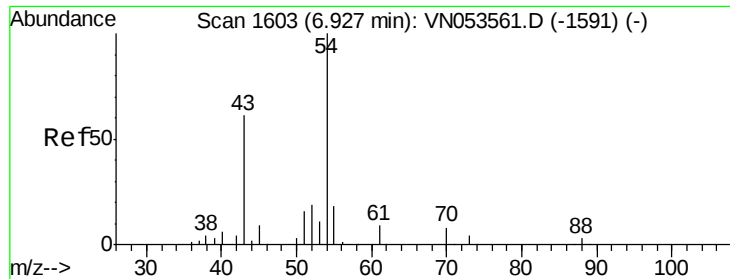
MMDadoda
 2/5/2019 9:53:41 AM



#36
 1,1-Dichloropropene
 Concen: 50.988 ug/l
 RT: 7.79 min Scan# 1872
 Delta R.T. 0.00 min
 Lab File: VN053586.D
 Acq: 4 Feb 2019 10:09

Tgt Ion	Ratio	Resp	Lower	Upper
75	100			
110	37.5	18.1	54.3	
77	31.2	25.1	37.7	





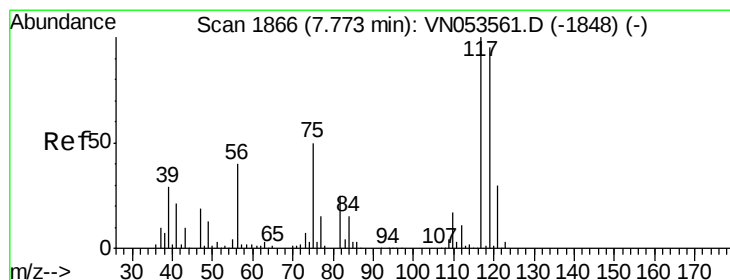
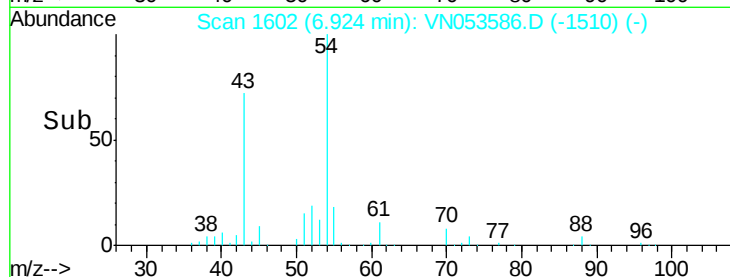
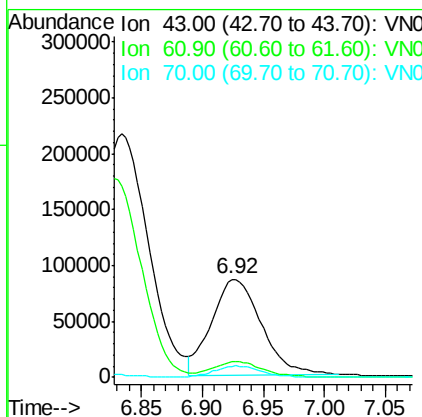
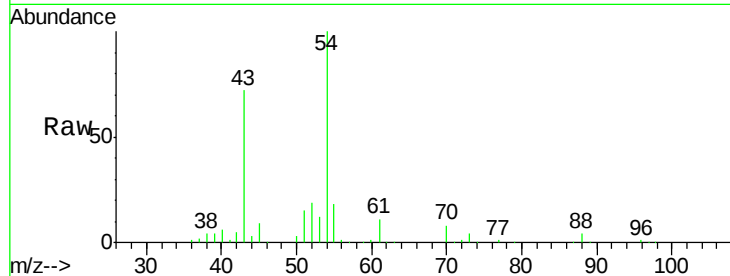
#37
Ethyl Acetate
Concen: 47.695 ug/l
RT: 6.92 min Scan# 1602
Delta R.T. -0.00 min
Lab File: VN053586.D
Acq: 4 Feb 2019 10:09

Instrument :
MSVOA_N
ClientSampleId :
VSTDCCC050

Tot Ion	Ratio	Lower	Upper
43	100		
61	15.6	11.8	17.6
70	11.6	8.6	12.8

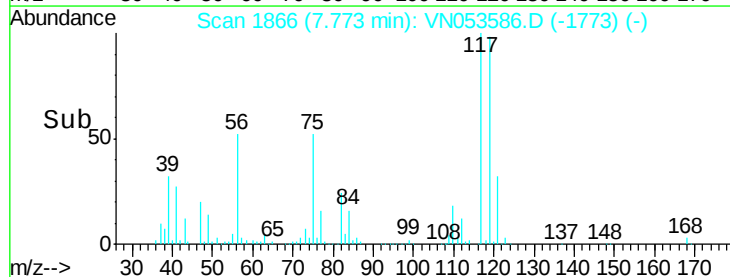
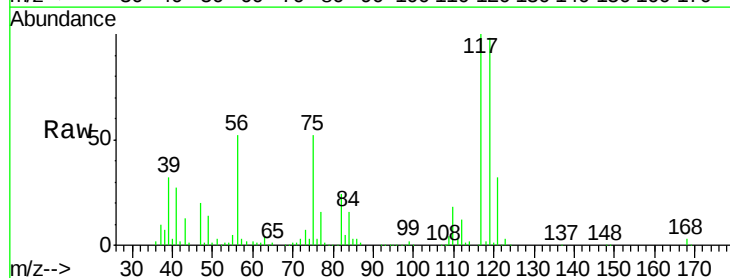
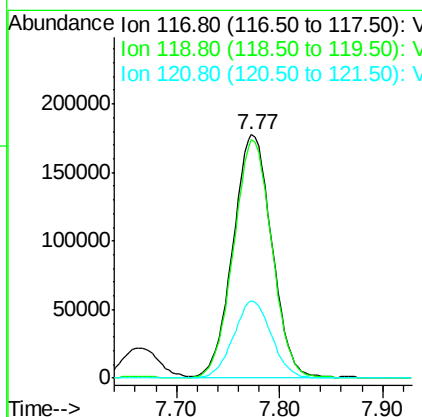
Manual Integrations
APPROVED

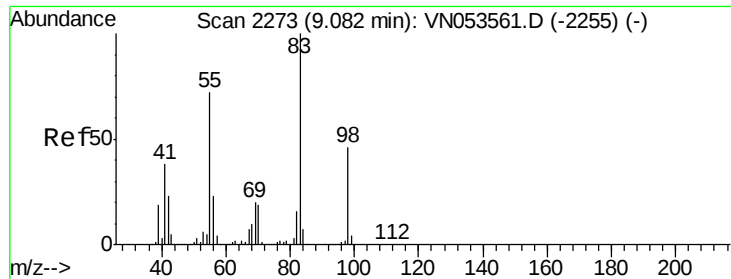
MMDadoda
2/5/2019 9:53:41 AM



#38
Carbon Tetrachloride
Concen: 50.038 ug/l
RT: 7.77 min Scan# 1866
Delta R.T. 0.00 min
Lab File: VN053586.D
Acq: 4 Feb 2019 10:09

Tgt Ion	Ratio	Lower	Upper
117	100		
119	98.0	77.2	115.8
121	31.9	24.6	37.0





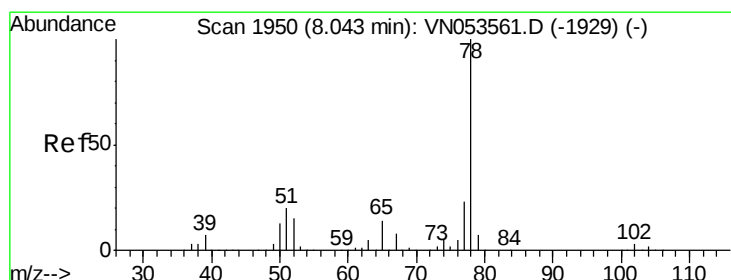
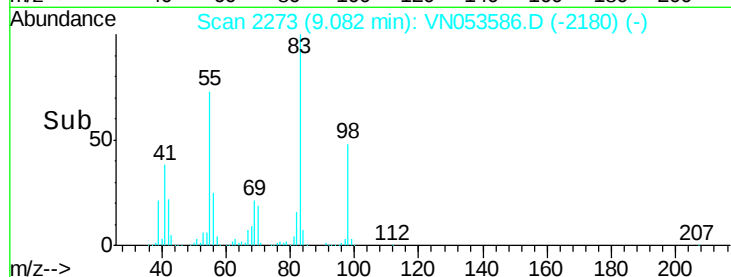
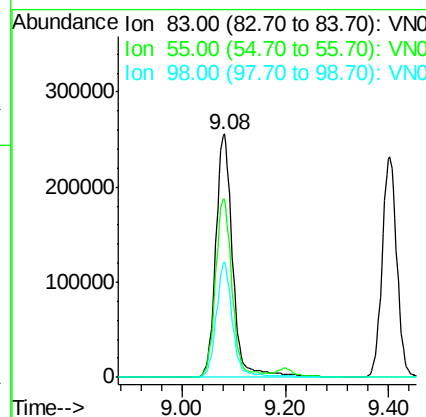
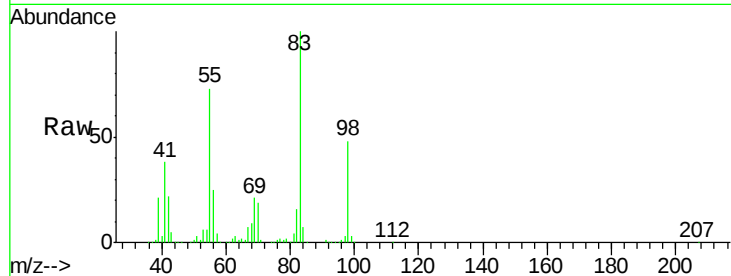
#39
Methvlcvclohexane
Concen: 53.746 ug/l
RT: 9.08 min Scan# 2273
Delta R.T. 0.00 min
Lab File: VN053586.D
Acq: 4 Feb 2019 10:09

Instrument :
MSVOA_N
ClientSampleId :
VSTDCCC050

Tot Ion	Ratio	Lower	Upper
83	100		
55	73.3	60.1	90.1
98	47.7	36.6	55.0

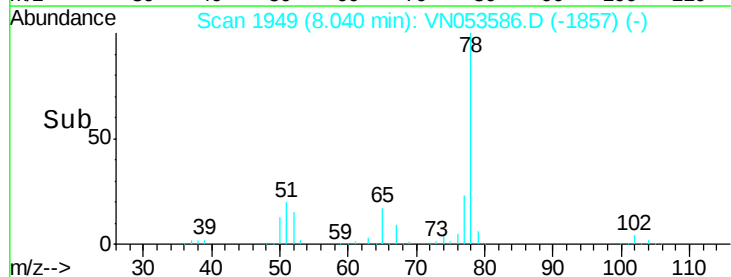
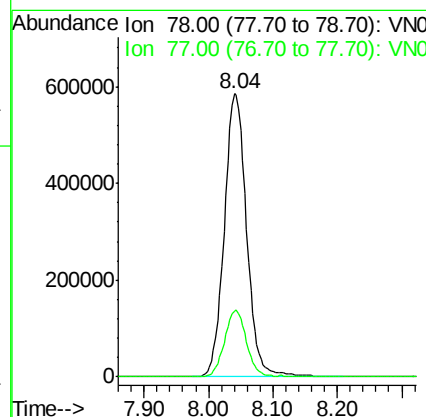
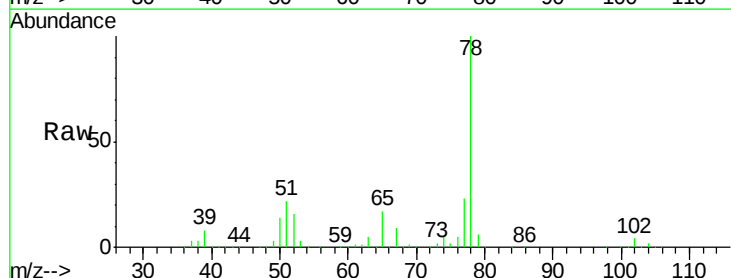
Manual Integrations
APPROVED

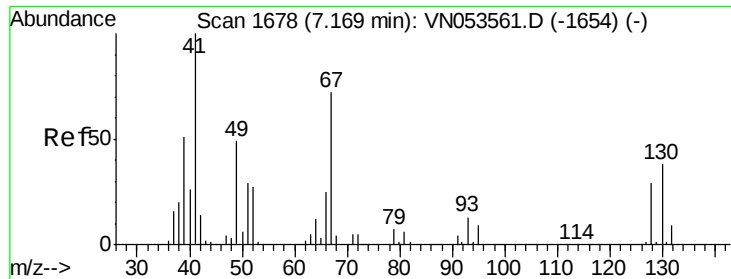
MMDadoda
2/5/2019 9:53:41 AM



#40
Benzene
Concen: 49.818 ug/l
RT: 8.04 min Scan# 1949
Delta R.T. -0.00 min
Lab File: VN053586.D
Acq: 4 Feb 2019 10:09

Tgt Ion	Ratio	Lower	Upper
78	100		
77	23.4	18.8	28.2





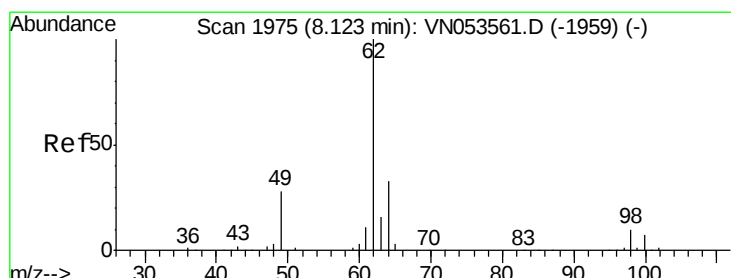
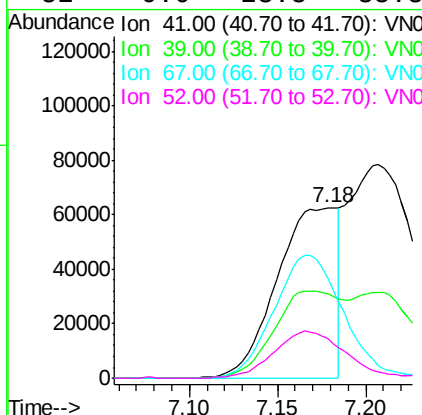
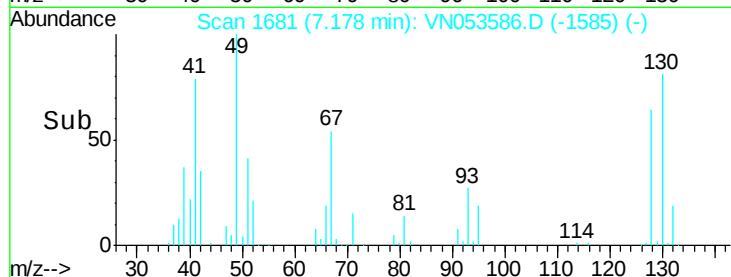
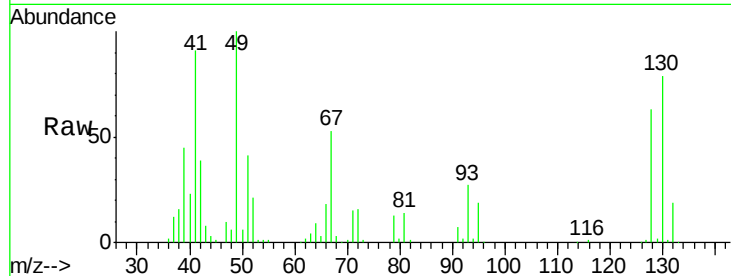
#41
Methacrylonitrile
Concen: 52.645 ug/l m
RT: 7.18 min Scan# 1681
Delta R.T. 0.01 min
Lab File: VN053586.D
Acq: 4 Feb 2019 10:09

Instrument :
MSVOA_N
ClientSampleId :
VSTDCCC050

Tot Ion	Ion	Ratio	Resp	Lower	Upper
41	100				
39	0.0	46.8	70.2#		
67	0.0	63.0	94.6#		
52	0.0	23.8	35.8#		

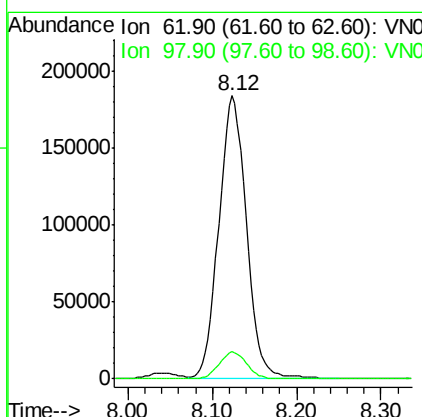
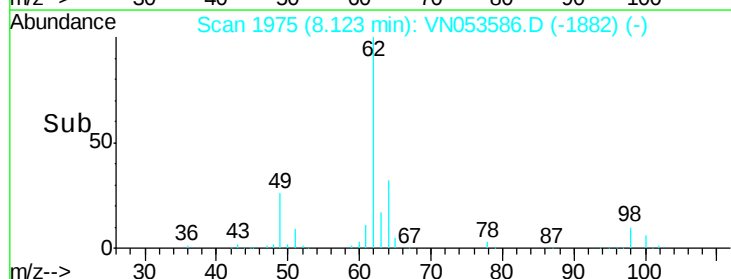
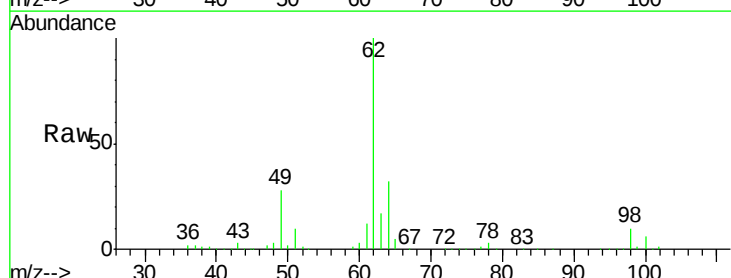
Manual Integrations
APPROVED

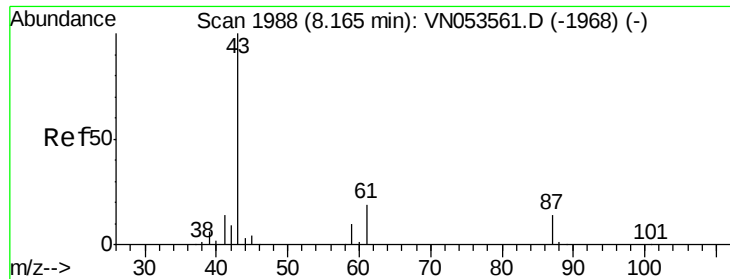
MMDadoda
2/5/2019 9:53:41 AM



#42
1,2-Dichloroethane
Concen: 49.725 ug/l
RT: 8.12 min Scan# 1975
Delta R.T. 0.00 min
Lab File: VN053586.D
Acq: 4 Feb 2019 10:09

Tgt Ion	Ion	Ratio	Resp	Lower	Upper
62	100				
98	9.7	0.0	19.6		





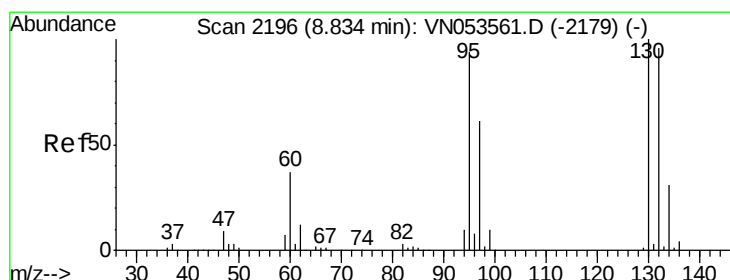
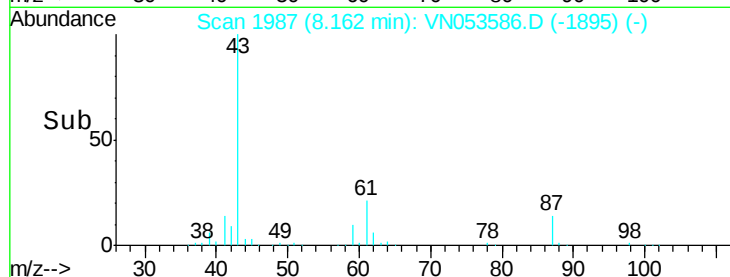
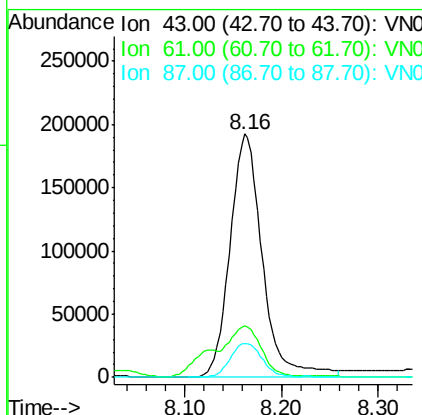
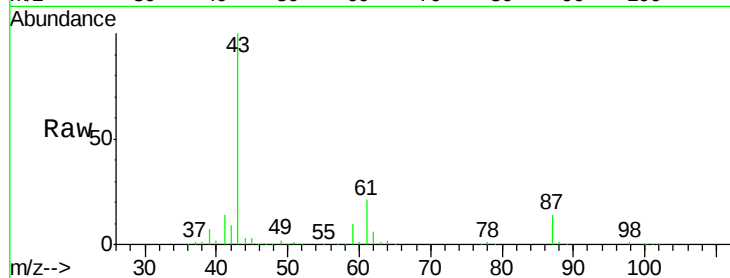
#43
Isopropyl Acetate
Concen: 45.218 ug/l
RT: 8.16 min Scan# 1987
Delta R.T. -0.00 min
Lab File: VN053586.D
Acq: 4 Feb 2019 10:09

Instrument :
MSVOA_N
ClientSampleId :
VSTDCCC050

Tot Ion	Ratio	Lower	Upper
43	100		
61	21.9	23.9	35.9#
87	13.9	11.0	16.6

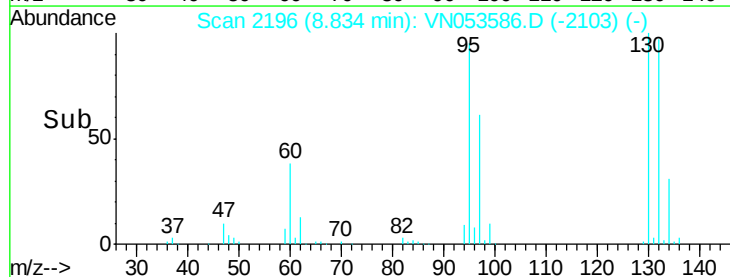
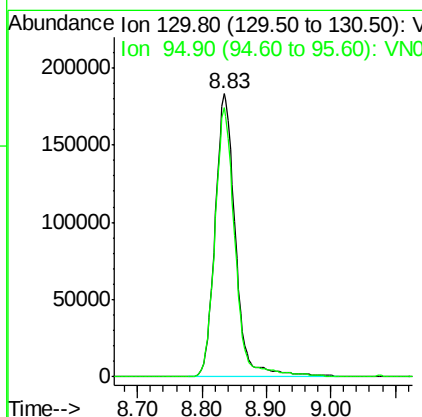
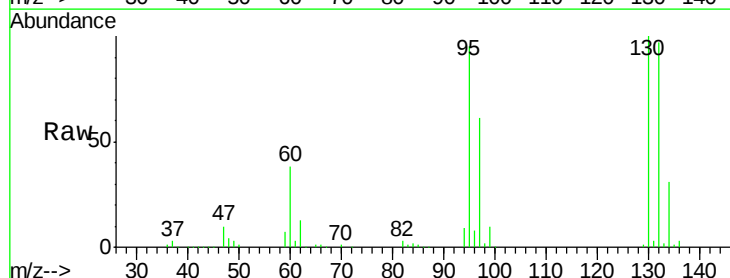
Manual Integrations
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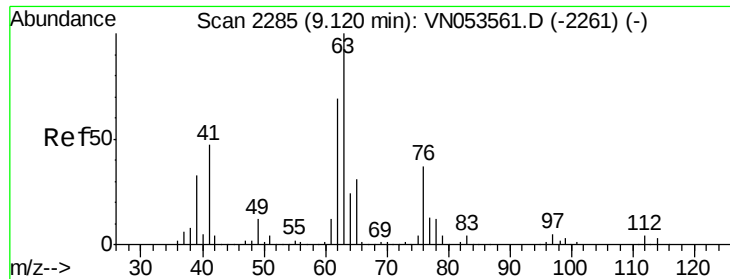
MMDadoda
2/5/2019 9:53:41 AM



#44
Trichloroethene
Concen: 49.718 ug/l
RT: 8.83 min Scan# 2196
Delta R.T. 0.00 min
Lab File: VN053586.D
Acq: 4 Feb 2019 10:09

Tgt Ion	Ratio	Lower	Upper
130	100		
95	95.0	0.0	191.4





#45

1,2-Dichloropropane

Concen: 50.588 ug/l

RT: 9.12 min Scan# 2284

Delta R.T. -0.00 min

Lab File: VN053586.D

Acq: 4 Feb 2019 10:09

Instrument :

MSVOA_N

ClientSampleId :

VSTDCCC050

Tot Ion: 63 Resp: 366156

Ion Ratio Lower Upper

63 100

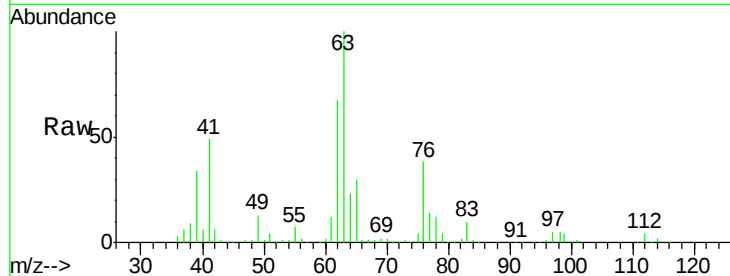
65 29.9 25.0 37.4

Manual Integrations

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MMDadoda

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Abundance Ion 62.90 (62.60 to 63.60): VN0

Ion 64.90 (64.60 to 65.60): VN0

200000

150000

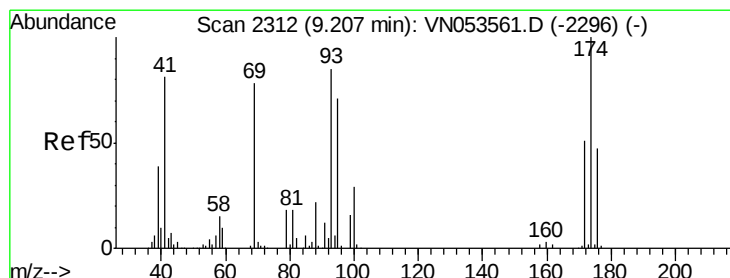
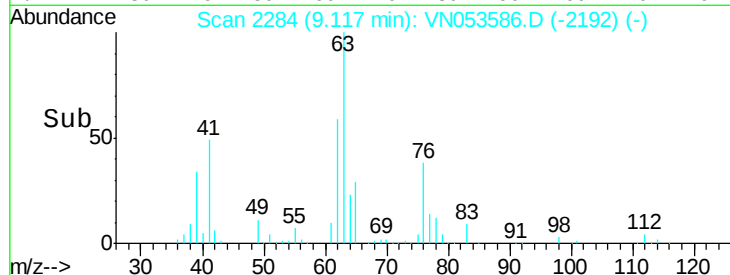
100000

50000

0

9.00 9.10 9.20 9.30

Time-->



#46

Dibromomethane

Concen: 49.327 ug/l

RT: 9.21 min Scan# 2312

Delta R.T. 0.00 min

Lab File: VN053586.D

Acq: 4 Feb 2019 10:09

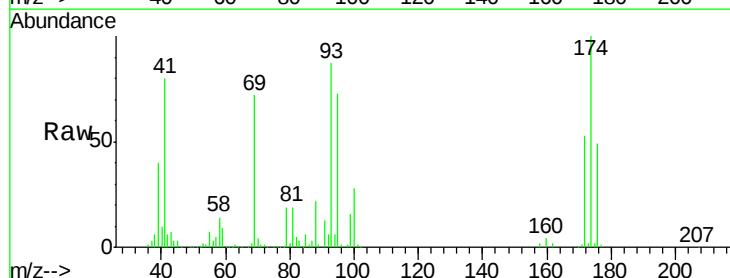
Tgt Ion: 93 Resp: 215226

Ion Ratio Lower Upper

93 100

95 82.6 67.3 100.9

174 115.7 91.0 136.4



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

150000

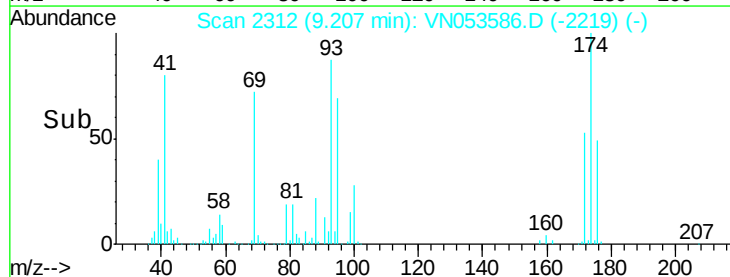
100000

50000

0

9.10 9.15 9.20 9.25 9.30

Time-->





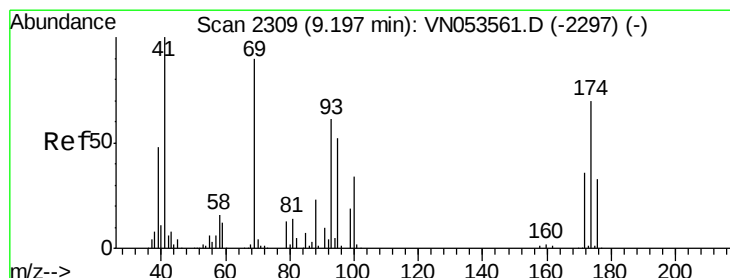
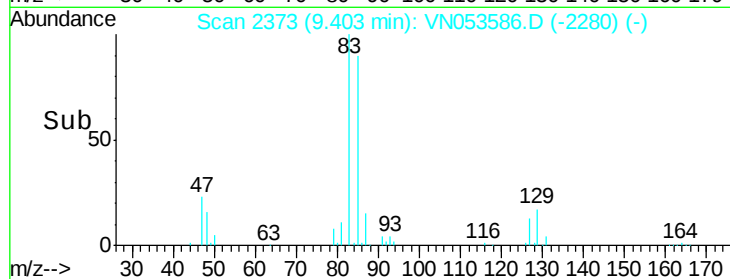
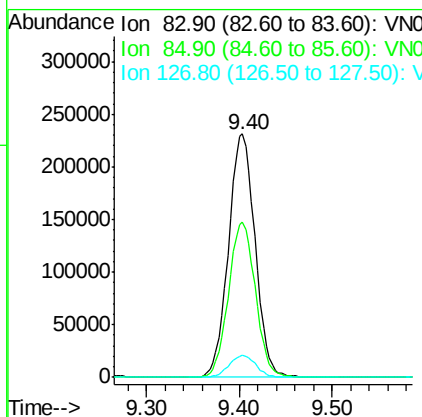
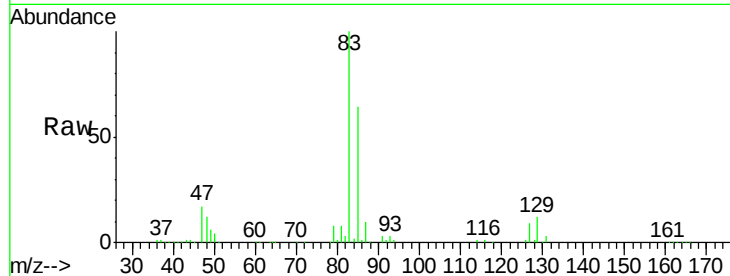
#47
Bromodichloromethane
Concen: 50.663 ug/l
RT: 9.40 min Scan# 2373
Delta R.T. 0.00 min
Lab File: VN053586.D
Acq: 4 Feb 2019 10:09

Instrument :
MSVOA_N
ClientSampleId :
VSTDCCC050

Tot Ion	83	Resp	459608
Ion Ratio	100	Lower	Upper
83	100		
85	63.5	51.0	76.6
127	8.9	7.0	10.6

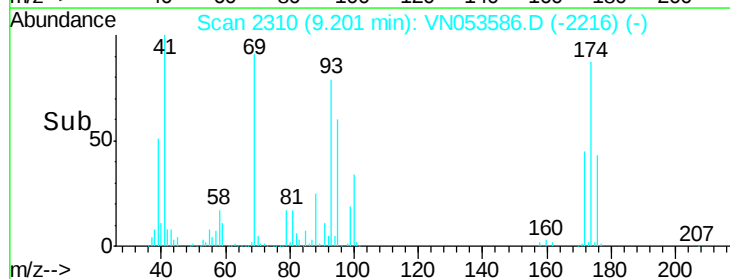
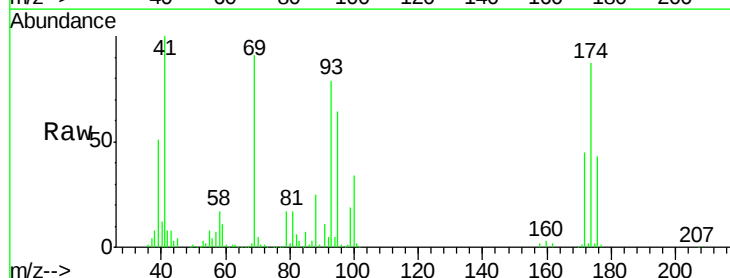
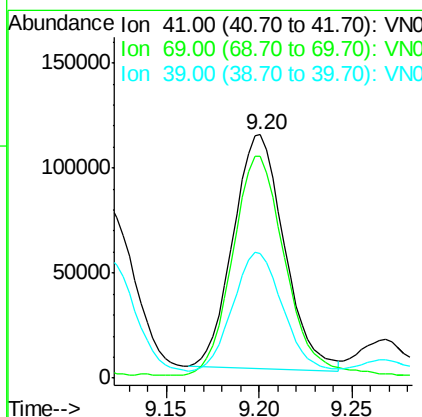
Manual Integrations
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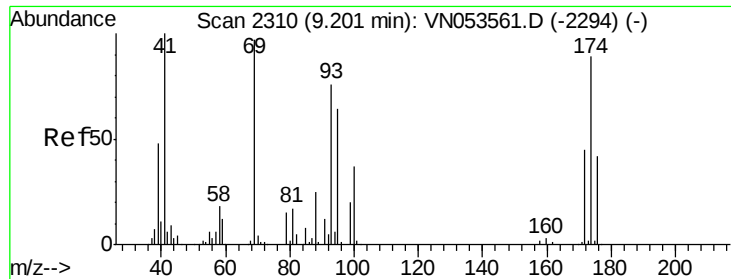
MMDadoda
2/5/2019 9:53:41 AM



#48
Methyl methacrylate
Concen: 44.975 ug/l
RT: 9.20 min Scan# 2310
Delta R.T. 0.00 min
Lab File: VN053586.D
Acq: 4 Feb 2019 10:09

Tgt Ion	41	Resp	212493
Ion Ratio	100	Lower	Upper
41	100		
69	100.6	73.8	110.6
39	56.5	40.0	60.0





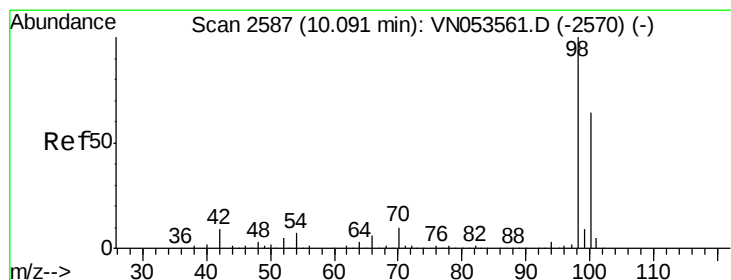
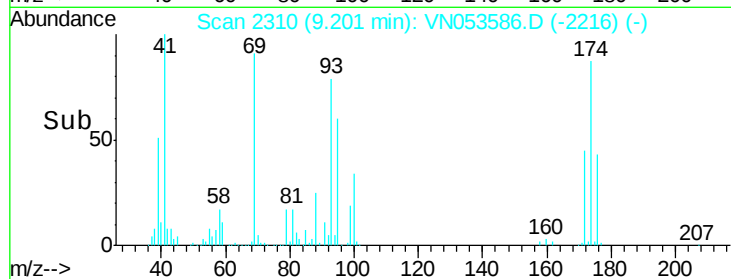
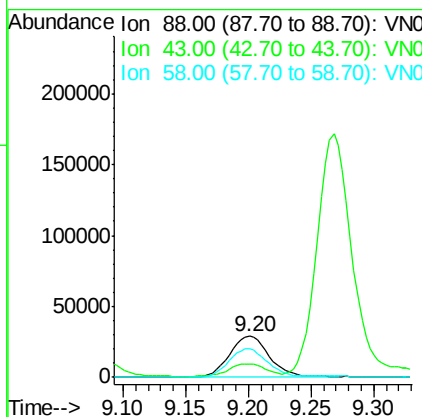
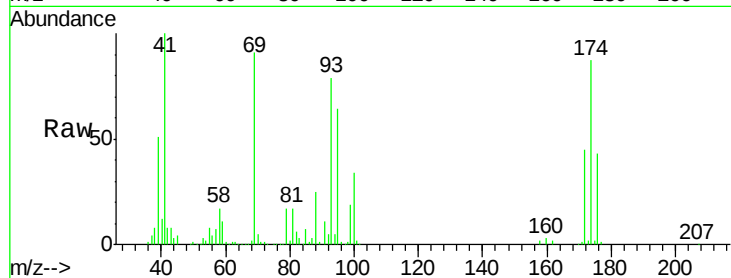
#49
1,4-Dioxane
Concen: 947.776 ug/l
RT: 9.20 min Scan# 2310
Delta R.T. 0.00 min
Lab File: VN053586.D
Acq: 4 Feb 2019 10:09

Instrument :
MSVOA_N
ClientSampleId :
VSTDCCC050

Tot Ion	88	Resp	64740
Ion	Ratio	Lower	Upper
88	100		
43	29.0	27.8	41.6
58	66.7	56.5	84.7

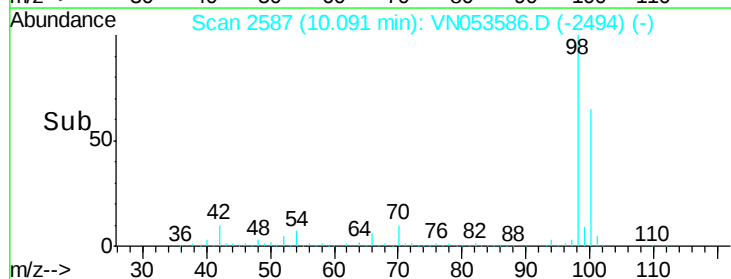
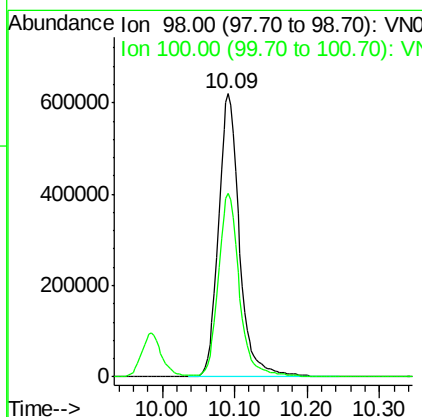
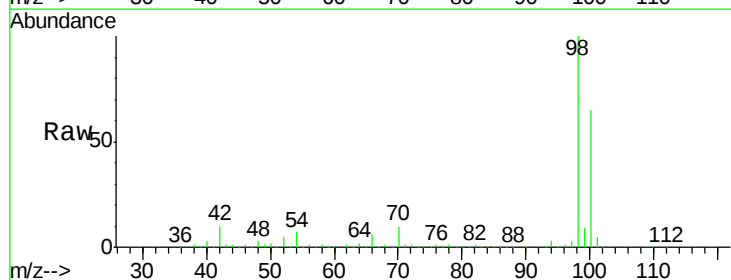
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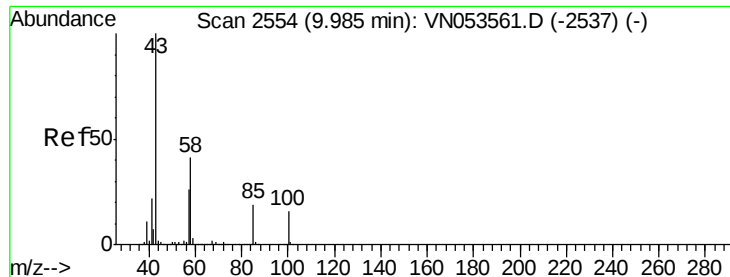
MMDadoda
2/5/2019 9:53:41 AM



#50
Toluene-d8
Concen: 947.776 ug/l
RT: 10.09 min Scan# 2587
Delta R.T. 0.00 min
Lab File: VN053586.D
Acq: 4 Feb 2019 10:09

Tgt Ion	98	Resp	1238518
Ion	Ratio	Lower	Upper
98	100		
100	65.4	51.4	77.0





#51

4-Methyl-2-Pentanone

Concen: 245.017 ug/l

RT: 9.99 min Scan# 2554

Delta R.T. 0.00 min

Lab File: VN053586.D

Acq: 4 Feb 2019 10:09

Instrument :

MSVOA_N

ClientSampleId :

VSTDCCC050

Tot Ion: 43 Resp: 1191727

Ion Ratio Lower Upper

43 100

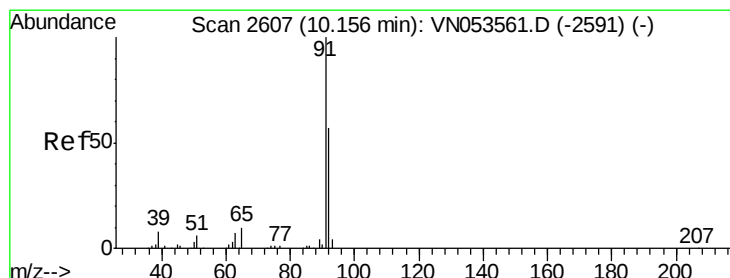
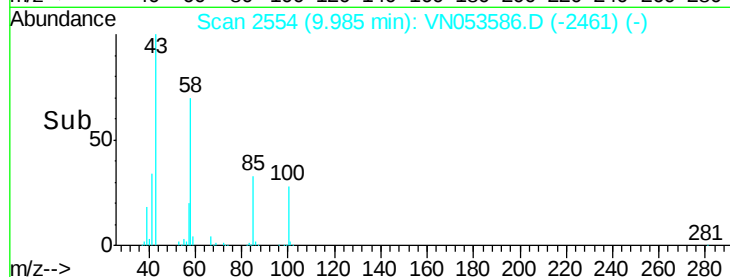
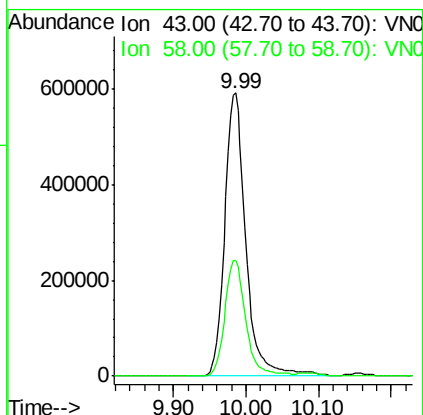
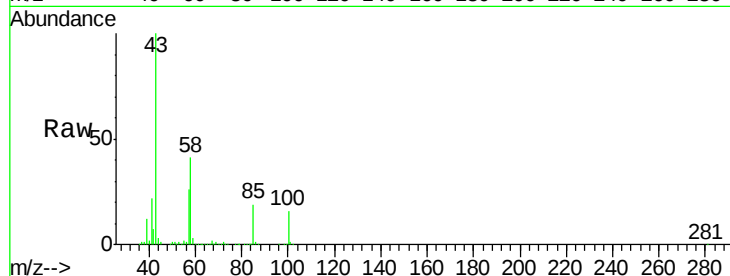
58 40.8 32.8 49.2

Manual Integrations

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MMDadoda

2/5/2019 9:53:41 AM



#52

Toluene

Concen: 50.930 ug/l

RT: 10.16 min Scan# 2607

Delta R.T. 0.00 min

Lab File: VN053586.D

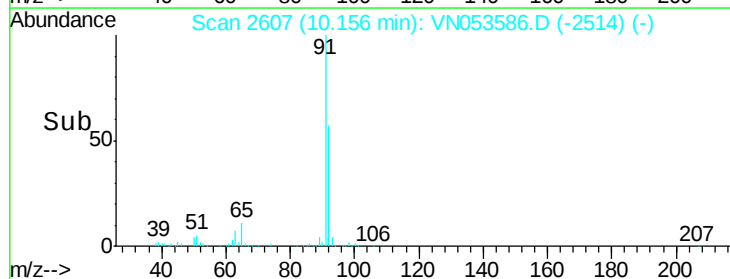
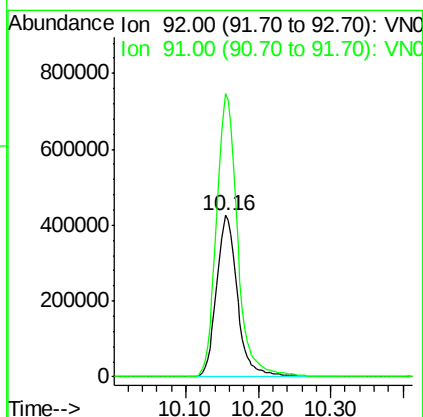
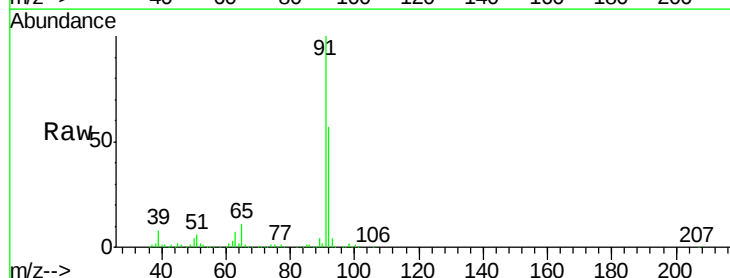
Acq: 4 Feb 2019 10:09

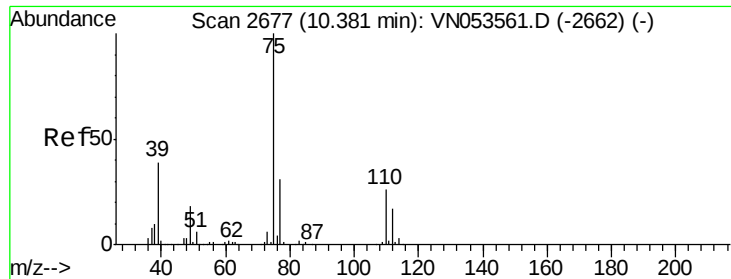
Tgt Ion: 92 Resp: 855370

Ion Ratio Lower Upper

92 100

91 176.1 139.9 209.9





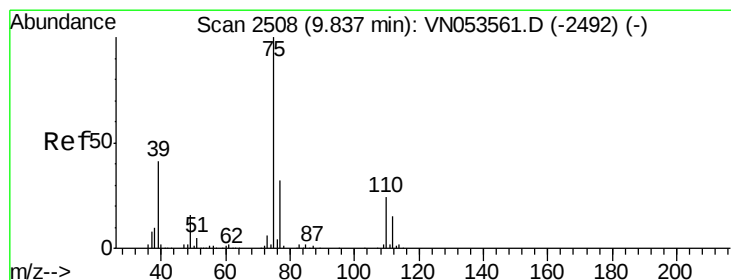
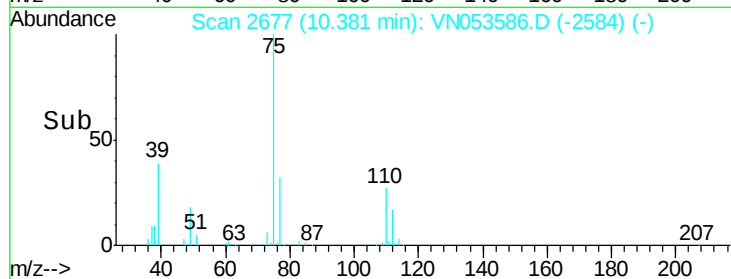
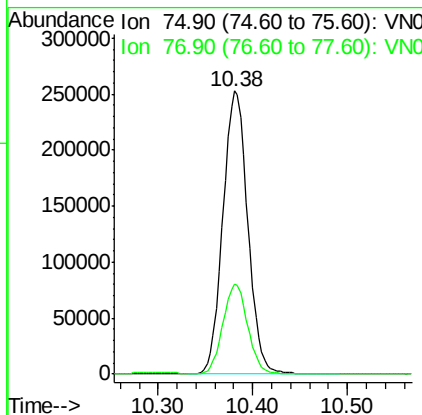
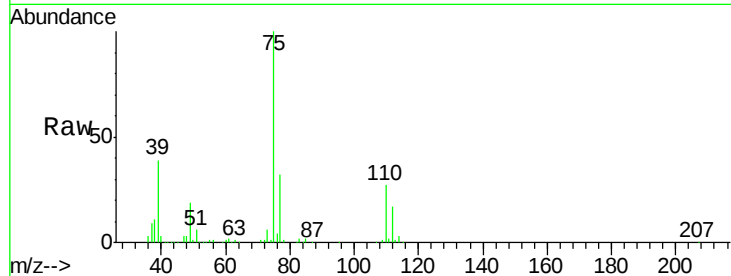
#53
t-1,3-Dichloropropene
Concen: 50.876 ug/l
RT: 10.38 min Scan# 2677
Delta R.T. 0.00 min
Lab File: VN053586.D
Acq: 4 Feb 2019 10:09

Instrument :
MSVOA_N
ClientSampled :
VSTDCCC050

Tot Ion: 75 Resp: 462169
Ion Ratio Lower Upper
75 100
77 31.7 25.5 38.3

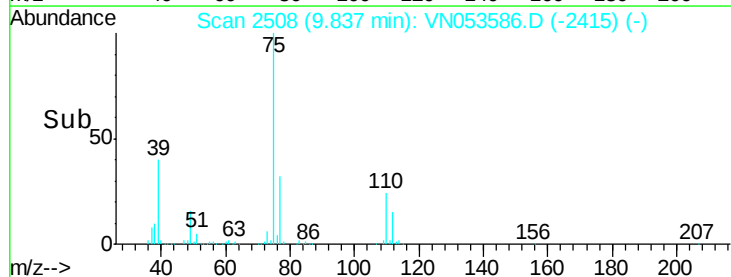
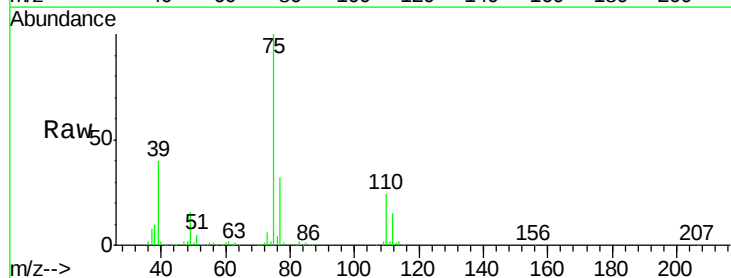
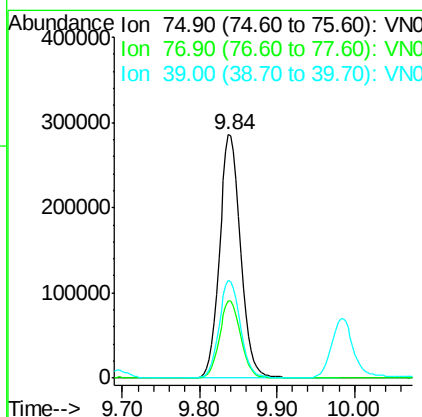
Manual Integrations
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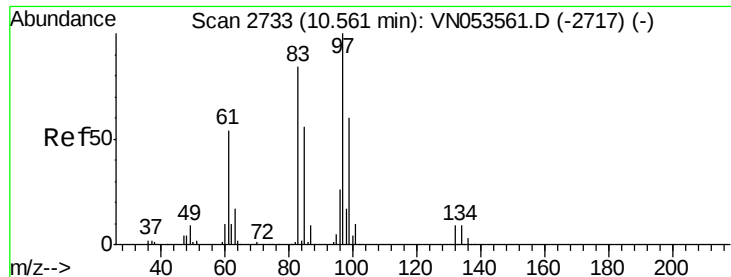
MMDadoda
2/5/2019 9:53:41 AM



#54
cis-1,3-Dichloropropene
Concen: 50.564 ug/l
RT: 9.84 min Scan# 2508
Delta R.T. 0.00 min
Lab File: VN053586.D
Acq: 4 Feb 2019 10:09

Tgt Ion: 75 Resp: 544309
Ion Ratio Lower Upper
75 100
77 31.6 25.8 38.6
39 40.4 33.4 50.0





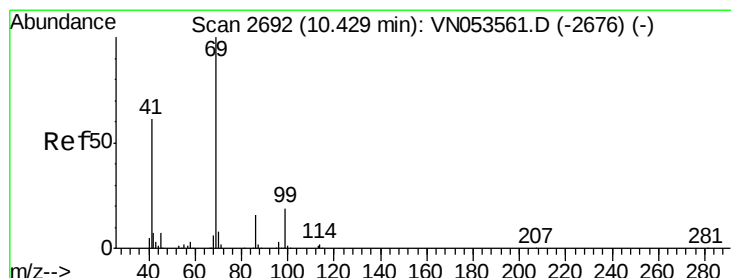
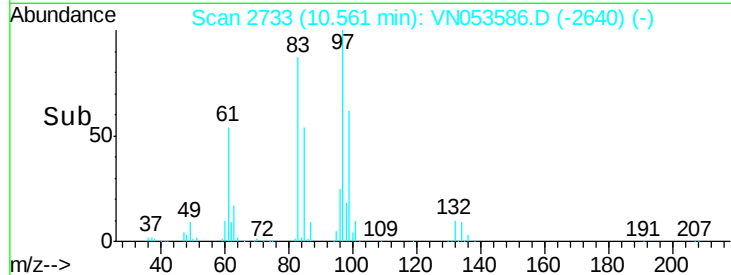
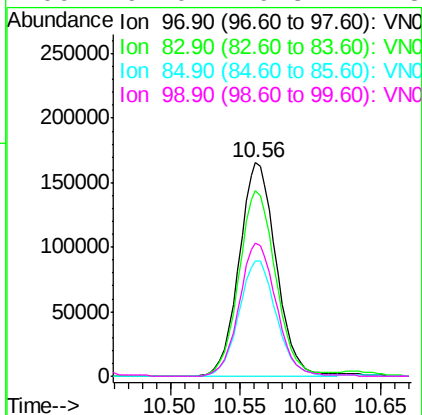
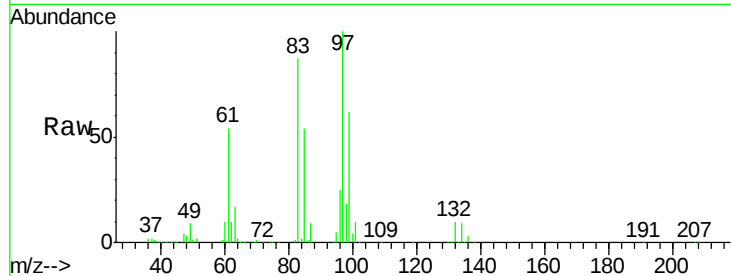
#55
 1,1,2-Trichloroethane
 Concen: 50.315 ug/l
 RT: 10.56 min Scan# 2733
 Delta R.T. 0.00 min
 Lab File: VN053586.D
 Acq: 4 Feb 2019 10:09

Instrument :
 MSVOA_N
 ClientSampled :
 VSTDCCC050

Tot Ion:	97	Resp:	304504
Ion	Ratio	Lower	Upper
97	100		
83	86.7	70.1	105.1
85	54.2	45.4	68.0
99	62.0	49.8	74.8

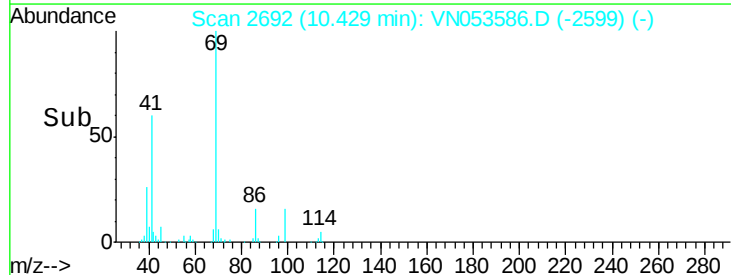
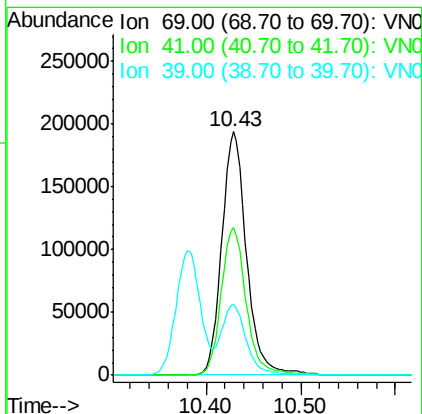
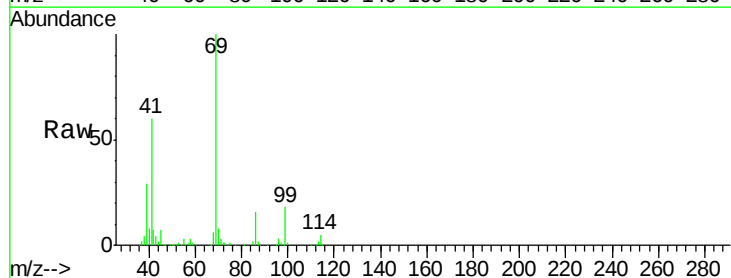
Manual Integrations
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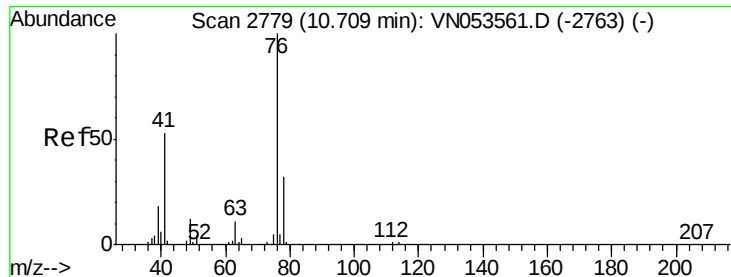
MMDadoda
 2/5/2019 9:53:41 AM



#56
 Ethyl methacrylate
 Concen: 49.268 ug/l
 RT: 10.43 min Scan# 2692
 Delta R.T. 0.00 min
 Lab File: VN053586.D
 Acq: 4 Feb 2019 10:09

Tgt Ion:	69	Resp:	352734
Ion	Ratio	Lower	Upper
69	100		
41	60.9	49.4	74.0
39	28.8	23.3	34.9





#57

1,3-Dichloropropane

Concen: 49.066 ug/l

RT: 10.71 min Scan# 2779

Delta R.T. 0.00 min

Lab File: VN053586.D

Acq: 4 Feb 2019 10:09

Instrument :

MSVOA_N

ClientSampleId :

VSTDCCC050

Tot Ion: 76 Resp: 507500

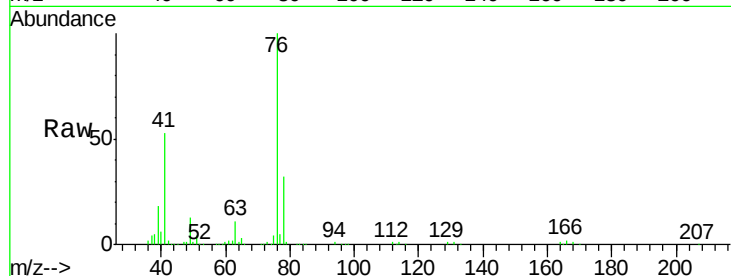
Ion Ratio Lower Upper

76 100

78 32.3 25.6 38.4

Manual Integrations
APPROVED

MMDadoda
2/5/2019 9:53:41 AM



Abundance Ion 75.90 (75.60 to 76.60): VN0

Ion 77.90 (77.60 to 78.60): VN0

300000

250000

200000

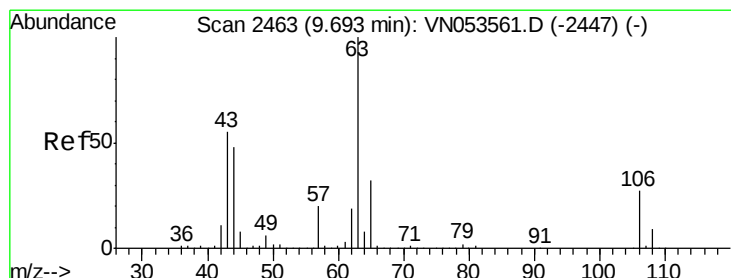
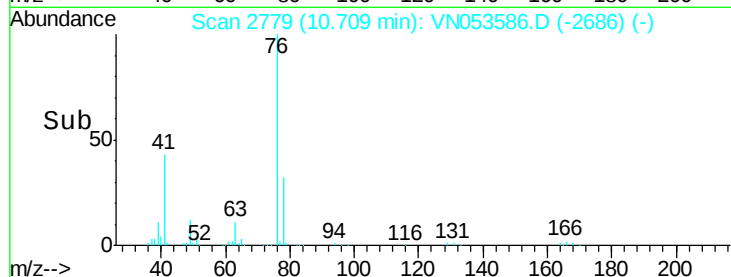
150000

100000

50000

0

Time--> 10.60 10.70 10.80



#58

2-Chloroethyl Vinyl ether

Concen: 221.991 ug/l

RT: 9.70 min Scan# 2464

Delta R.T. 0.00 min

Lab File: VN053586.D

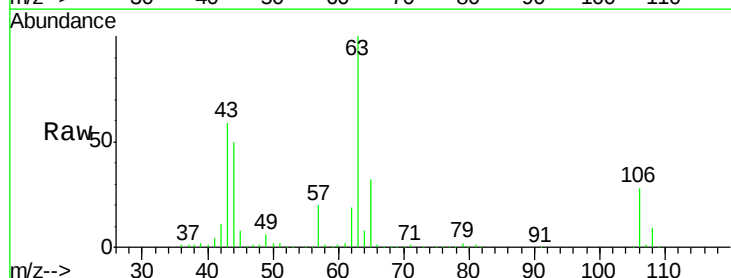
Acq: 4 Feb 2019 10:09

Tgt Ion: 63 Resp: 981551

Ion Ratio Lower Upper

63 100

106 27.5 21.5 32.3



Abundance Ion 62.90 (62.60 to 63.60): VN0

Ion 105.90 (105.60 to 106.60): V

600000

500000

400000

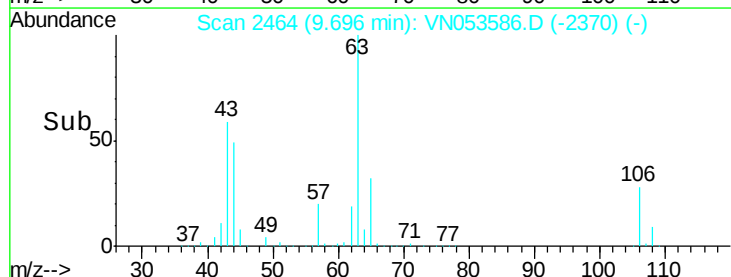
300000

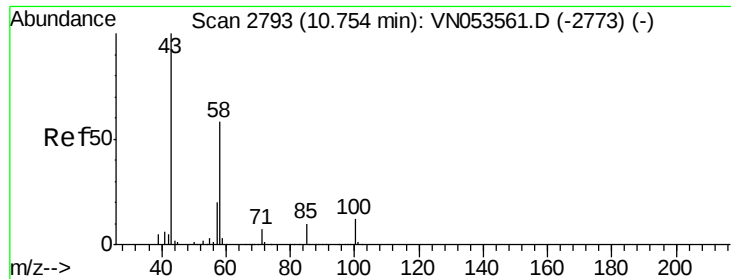
200000

100000

0

Time--> 9.60 9.70 9.80





#59

2-Hexanone

Concen: 243.907 ug/l

RT: 10.75 min Scan# 2793

Delta R.T. 0.00 min

Lab File: VN053586.D

Acq: 4 Feb 2019 10:09

Instrument :

MSVOA_N

ClientSampleId :

VSTDCCC050

Tot Ion: 43 Resp: 805365

Ion Ratio Lower Upper

43 100

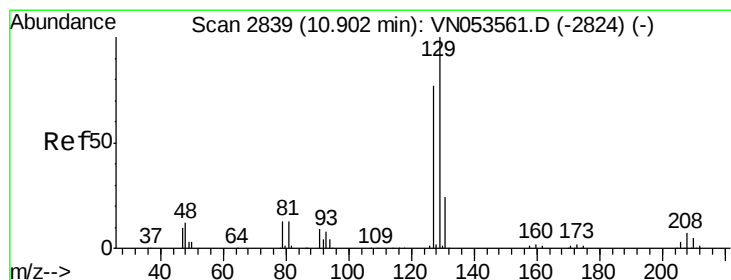
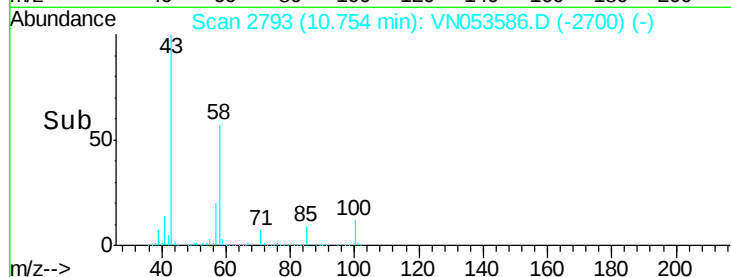
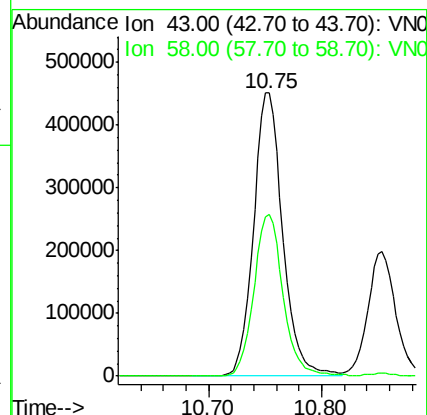
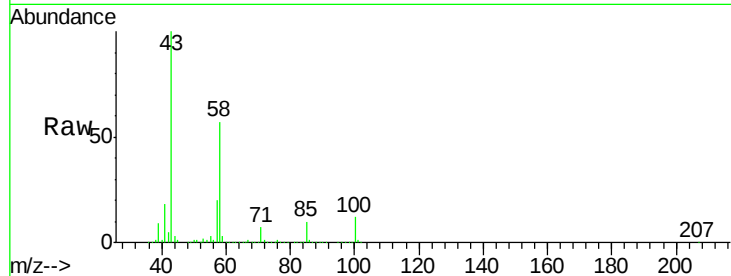
58 57.4 28.6 85.8

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#60

Dibromochloromethane

Concen: 51.782 ug/l

RT: 10.90 min Scan# 2839

Delta R.T. 0.00 min

Lab File: VN053586.D

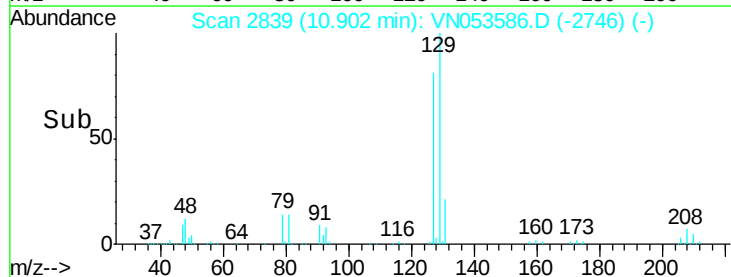
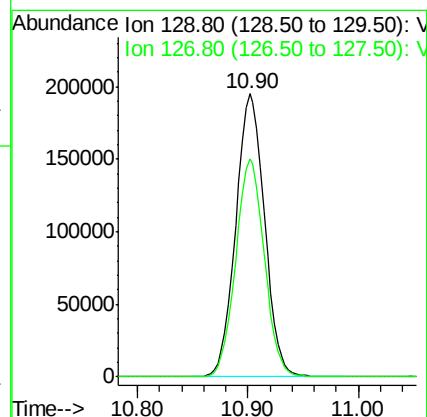
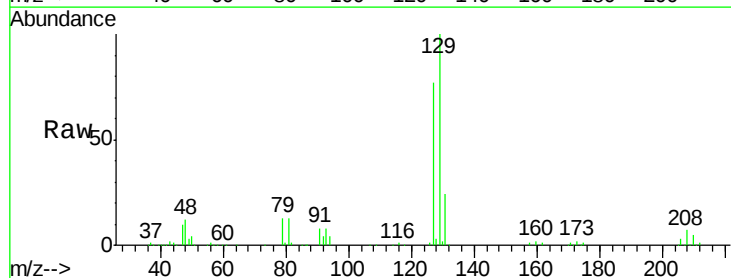
Acq: 4 Feb 2019 10:09

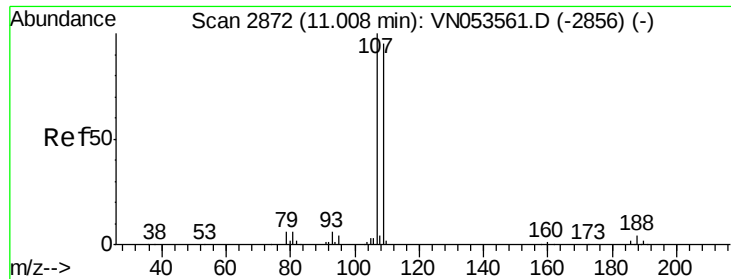
Tgt Ion: 129 Resp: 353397

Ion Ratio Lower Upper

129 100

127 76.5 38.6 115.8





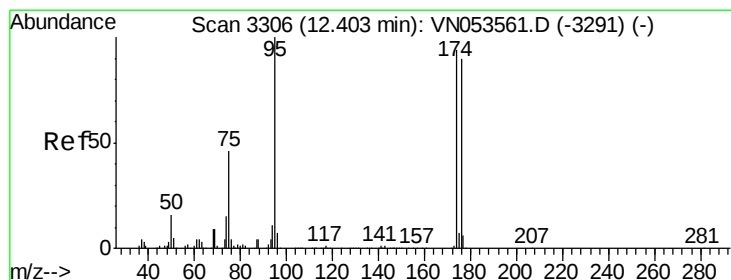
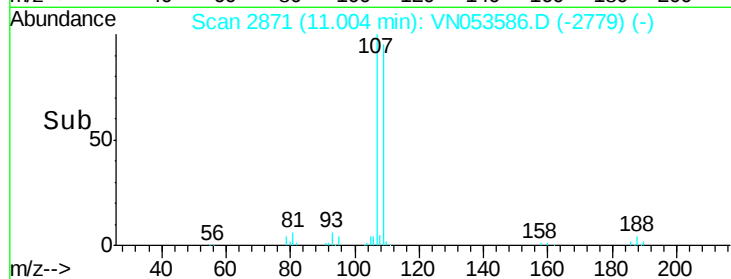
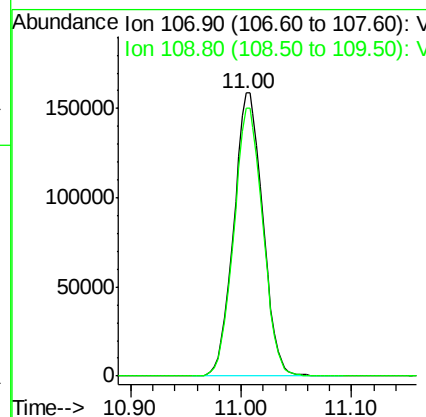
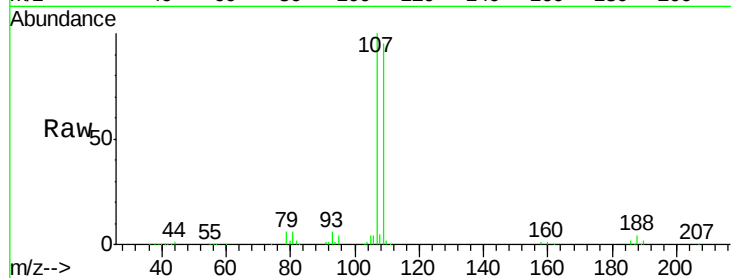
#61
 1,2-Dibromoethane
 Concen: 48.323 ug/l
 RT: 11.00 min Scan# 2871
 Delta R.T. -0.00 min
 Lab File: VN053586.D
 Acq: 4 Feb 2019 10:09

Instrument :
 MSVOA_N
 ClientSampleId :
 VSTDCCC050

Tot Ion	Ratio	Resp	Lower	Upper
107	100	289457		
109	94.8	75.7	113.5	

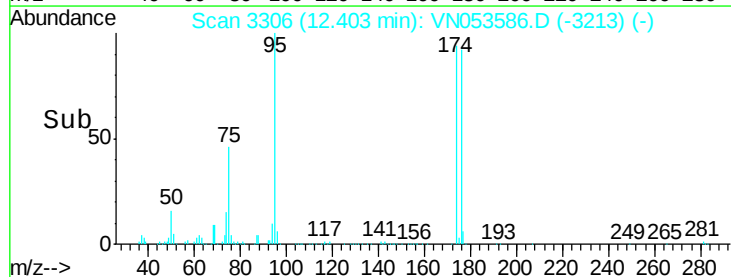
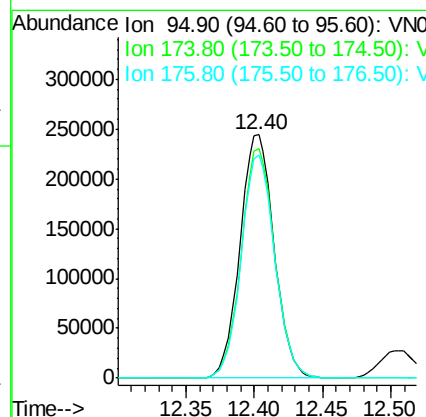
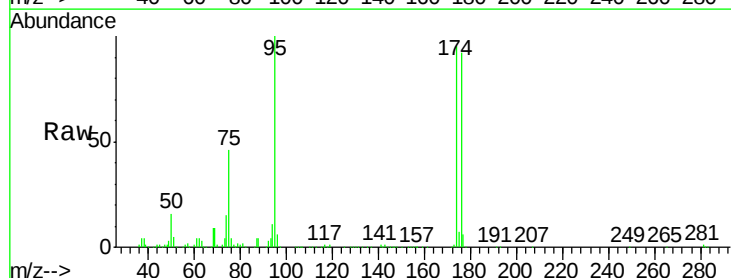
Manual Integrations
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#62
 4-Bromofluorobenzene
 Concen: 48.323 ug/l
 RT: 12.40 min Scan# 3306
 Delta R.T. 0.00 min
 Lab File: VN053586.D
 Acq: 4 Feb 2019 10:09

Tgt Ion	Ratio	Resp	Lower	Upper
95	100	423368		
174	92.8	0.0	183.2	
176	90.0	0.0	177.4	





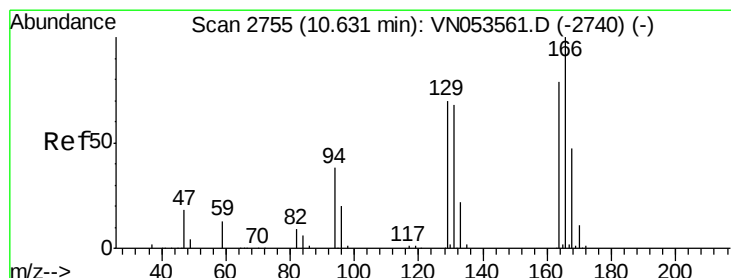
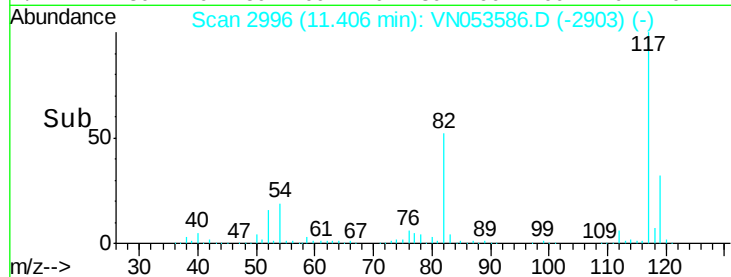
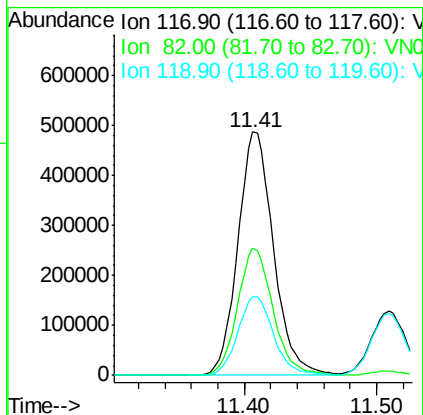
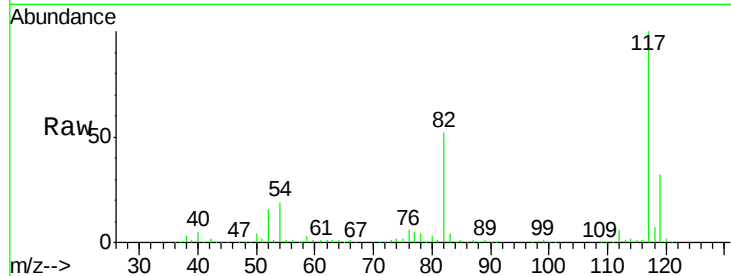
#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.41 min Scan# 2996
Delta R.T. 0.00 min
Lab File: VN053586.D
Acq: 4 Feb 2019 10:09

Instrument :
MSVOA_N
ClientSampleId :
VSTDCCC050

Tot Ion	Ratio	Lower	Upper
117	100		
82	52.2	42.9	64.3
119	32.0	26.0	39.0

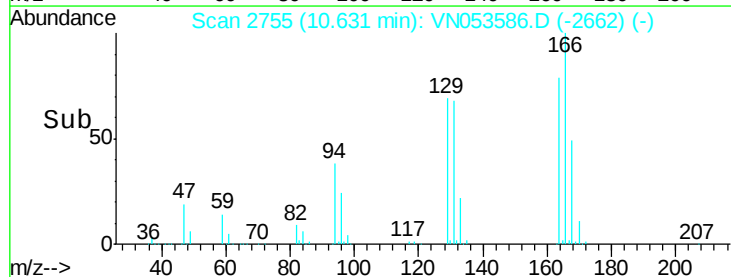
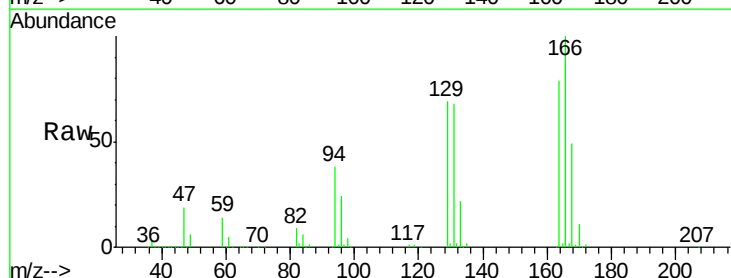
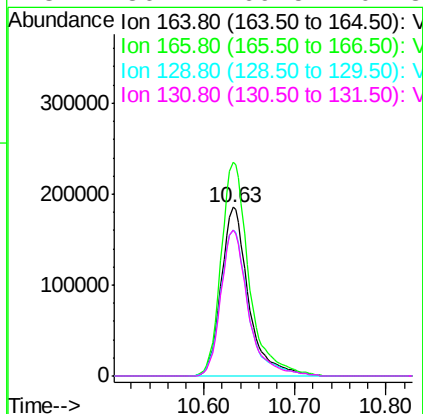
Manual Integrations
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#64
Tetrachloroethene
Concen: 49.811 ug/l
RT: 10.63 min Scan# 2755
Delta R.T. 0.00 min
Lab File: VN053586.D
Acq: 4 Feb 2019 10:09

Tgt Ion	Ratio	Lower	Upper
164	100		
166	126.5	102.2	153.4
129	86.8	72.6	109.0
131	86.1	69.5	104.3





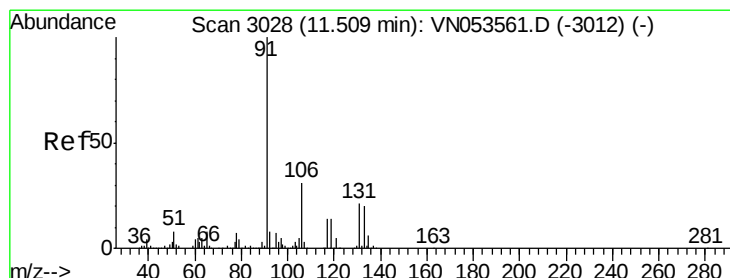
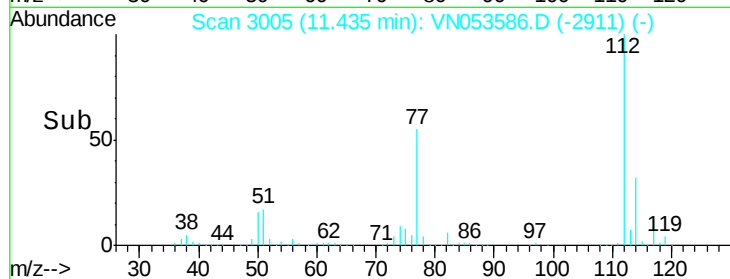
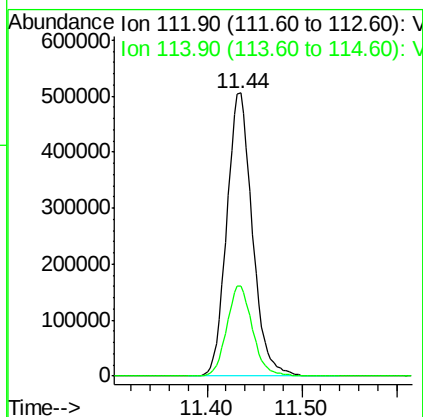
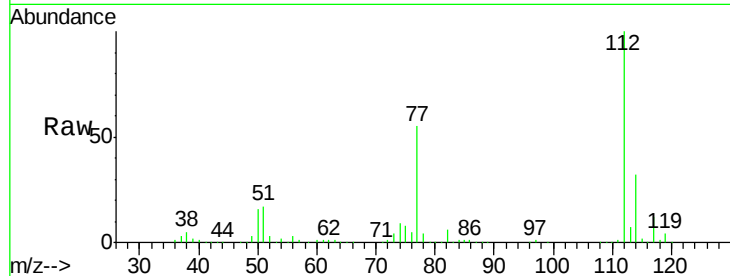
#65
Chlorobenzene
Concen: 49.066 ug/l
RT: 11.44 min Scan# 3005
Delta R.T. 0.00 min
Lab File: VN053586.D
Acq: 4 Feb 2019 10:09

Instrument :
MSVOA_N
ClientSampled :
VSTDCCC050

Tot Ion:112 Resp: 947561
Ion Ratio Lower Upper
112 100
114 31.9 25.3 37.9

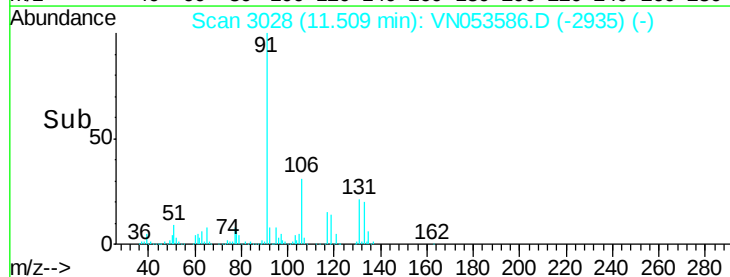
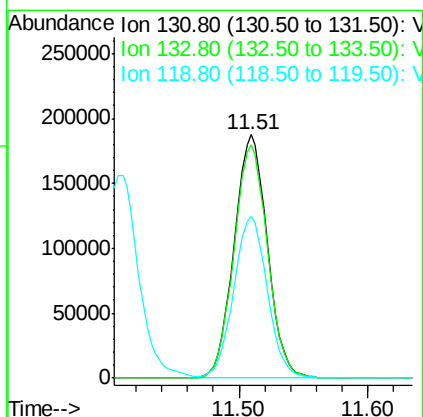
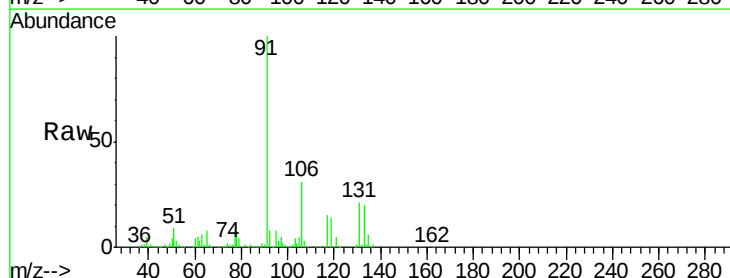
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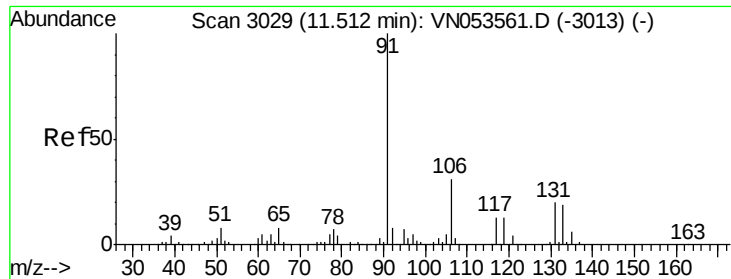
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#66
1,1,1,2-Tetrachloroethane
Concen: 49.912 ug/l
RT: 11.51 min Scan# 3028
Delta R.T. 0.00 min
Lab File: VN053586.D
Acq: 4 Feb 2019 10:09

Tgt Ion:131 Resp: 336631
Ion Ratio Lower Upper
131 100
133 96.7 48.0 144.0
119 67.1 33.5 100.5





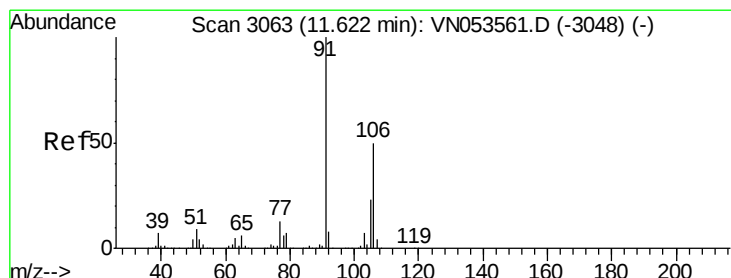
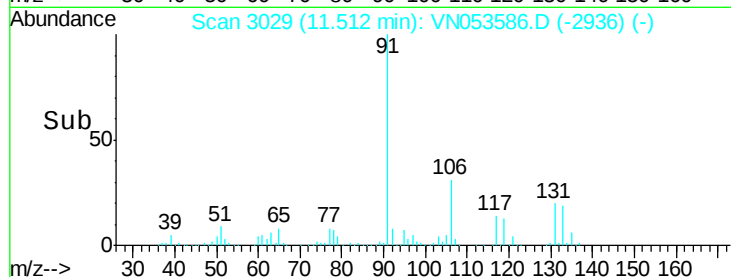
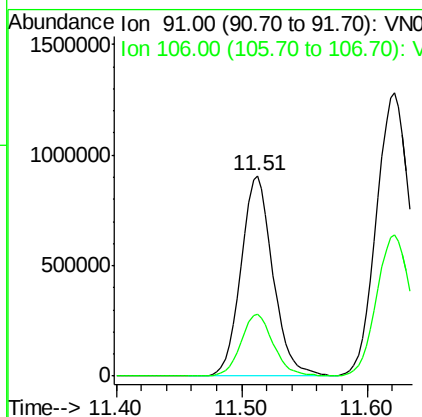
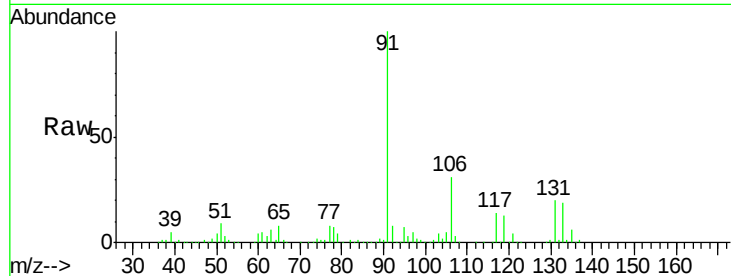
#67
Ethyl Benzene
Concen: 50.449 ug/l
RT: 11.51 min Scan# 3029
Delta R.T. 0.00 min
Lab File: VN053586.D
Acq: 4 Feb 2019 10:09

Instrument :
MSVOA_N
ClientSampled :
VSTDCCC050

Tot Ion: 91 Resp: 1600416
Ion Ratio Lower Upper
91 100
106 31.2 25.0 37.6

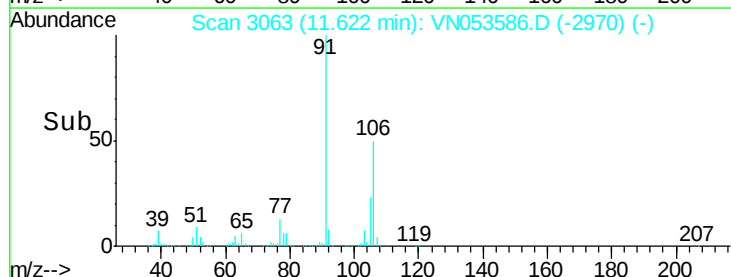
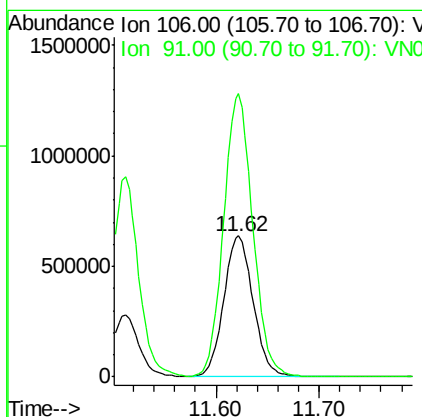
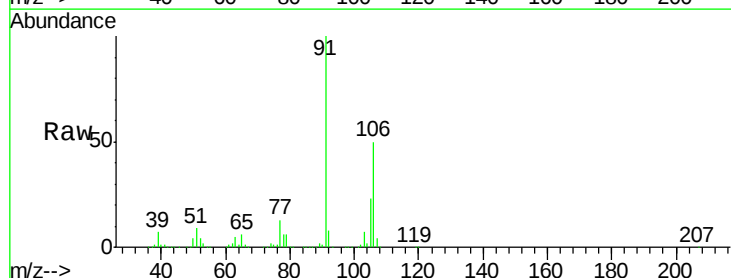
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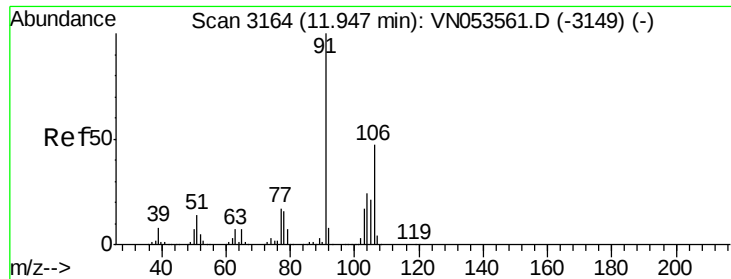
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#68
m/p-Xylenes
Concen: 104.247 ug/l
RT: 11.62 min Scan# 3063
Delta R.T. 0.00 min
Lab File: VN053586.D
Acq: 4 Feb 2019 10:09

Tgt Ion: 106 Resp: 1262198
Ion Ratio Lower Upper
106 100
91 199.6 161.4 242.2





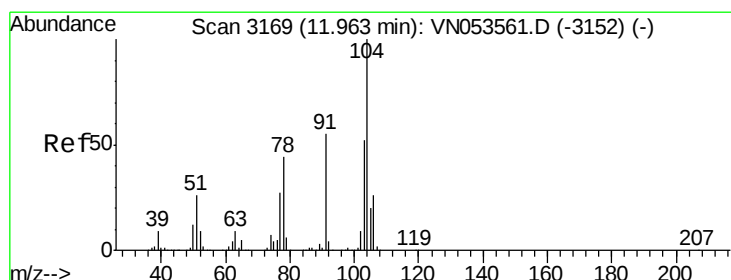
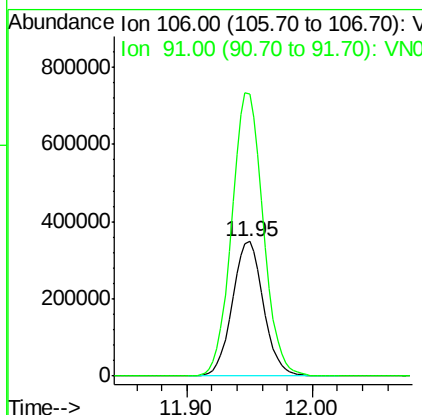
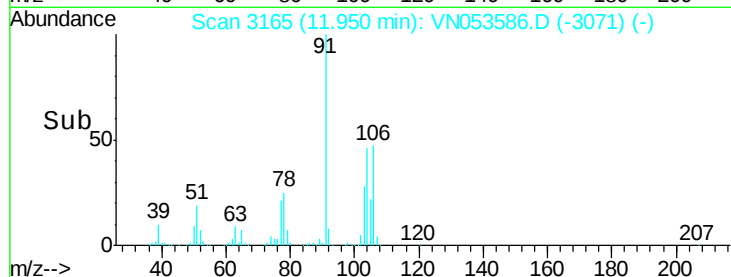
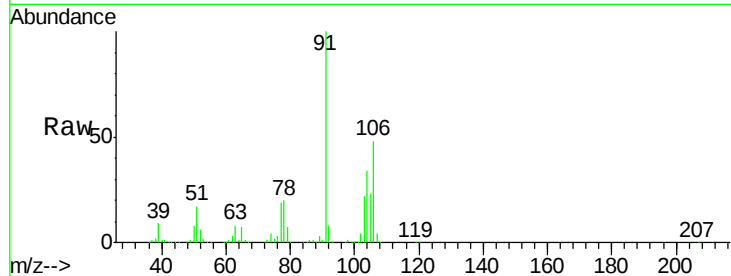
#69
o-Xylene
Concen: 51.390 ug/l
RT: 11.95 min Scan# 3165
Delta R.T. 0.00 min
Lab File: VN053586.D
Acq: 4 Feb 2019 10:09

Instrument :
MSVOA_N
ClientSampled :
VSTDCCC050

Tot Ion	Ratio	Lower	Upper
106	100		
91	212.6	106.9	320.8

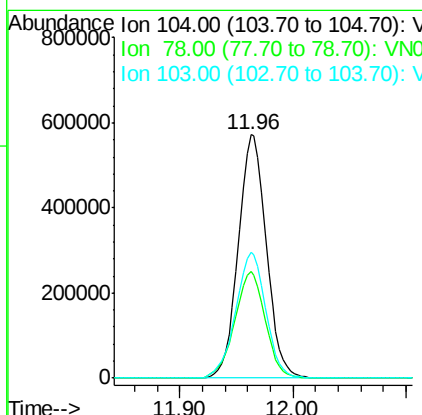
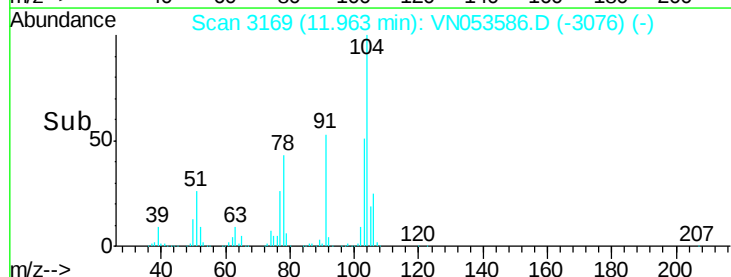
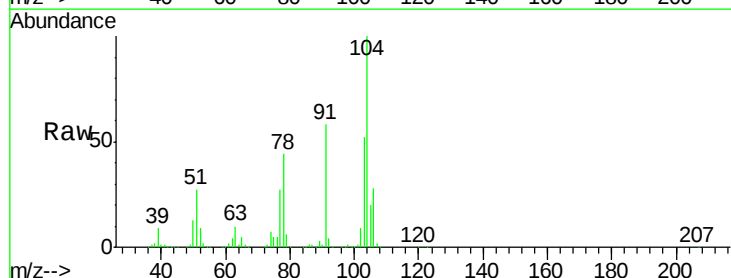
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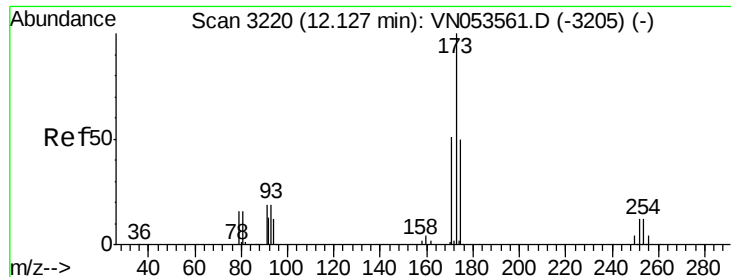
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#70
Styrene
Concen: 52.322 ug/l
RT: 11.96 min Scan# 3169
Delta R.T. 0.00 min
Lab File: VN053586.D
Acq: 4 Feb 2019 10:09

Tgt Ion	Ratio	Lower	Upper
104	100		
78	47.5	38.2	57.2
103	55.4	44.4	66.6





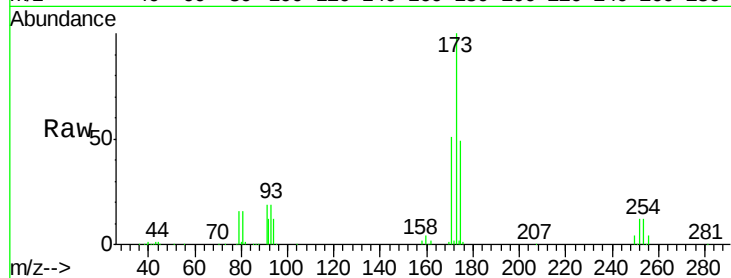
#71
Bromoform
Concen: 51.809 ug/l
RT: 12.13 min Scan# 3220
Delta R.T. 0.00 min
Lab File: VN053586.D
Acq: 4 Feb 2019 10:09

Instrument :
MSVOA_N
ClientSampleId :
VSTDCCC050

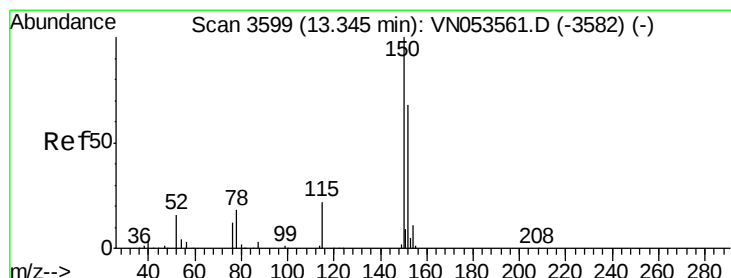
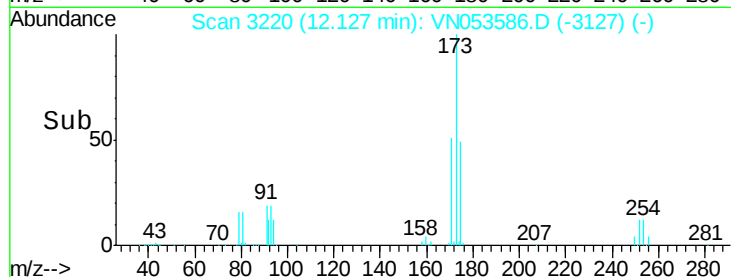
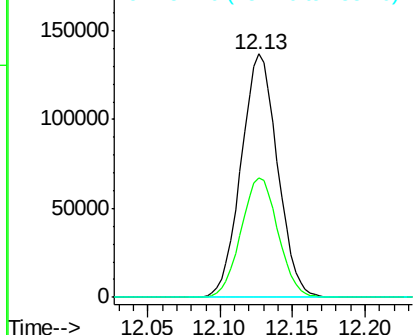
Tot Ion	Ratio	Lower	Upper
173	100		
175	49.8	24.6	74.0
254	0.2	0.2	0.2

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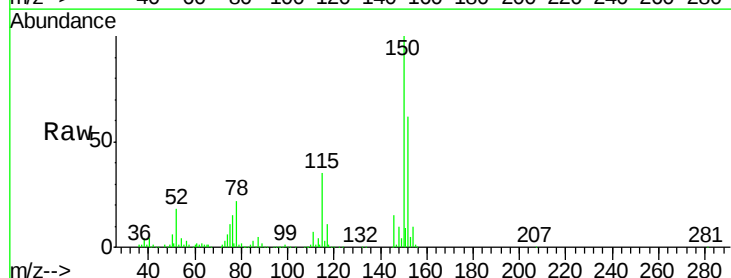


Abundance Ion 172.70 (172.40 to 173.40): V
Ion 174.70 (174.40 to 175.40): V
Ion 254.40 (254.10 to 255.10): V

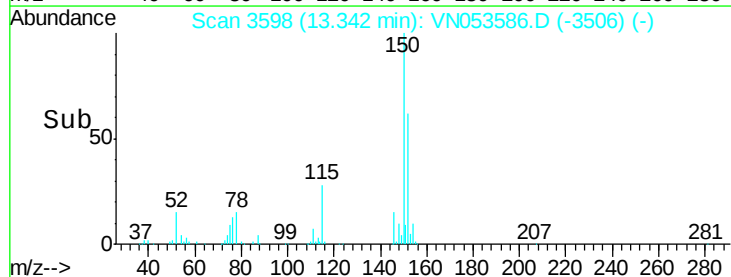
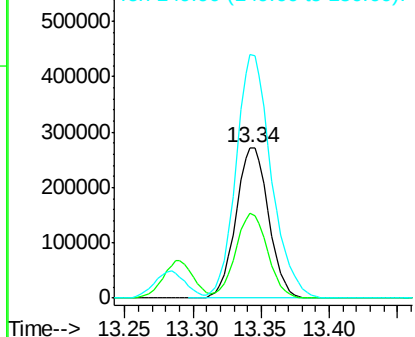


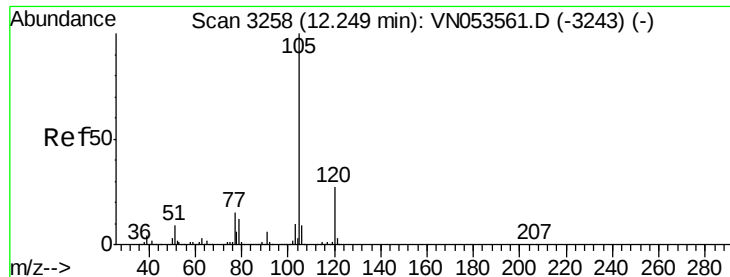
#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 13.34 min Scan# 3598
Delta R.T. -0.00 min
Lab File: VN053586.D
Acq: 4 Feb 2019 10:09

Tgt Ion	Ratio	Lower	Upper
152	100		
115	55.4	27.8	83.4
150	174.1	0.0	349.0



Abundance Ion 151.90 (151.60 to 152.60): V
Ion 114.90 (114.60 to 115.60): V
Ion 149.90 (149.60 to 150.60): V





#73

Isopropylbenzene

Concen: 49.894 ug/l

RT: 12.25 min Scan# 3258

Delta R.T. 0.00 min

Lab File: VN053586.D

Acq: 4 Feb 2019 10:09

Instrument :

MSVOA_N

ClientSampleId :

VSTDCCC050

Tot Ion: 105 Resp: 1583741

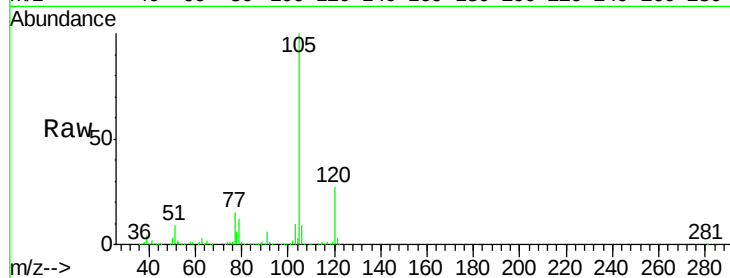
Ion Ratio Lower Upper

105 100

120 26.6 13.6 40.7

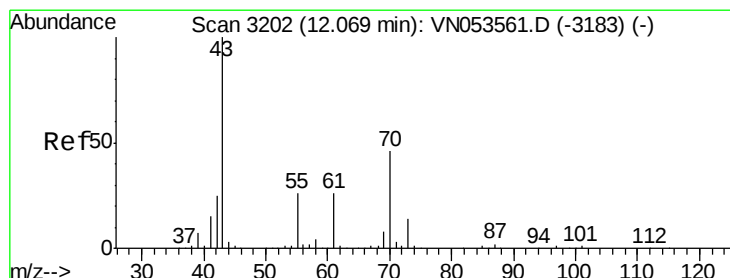
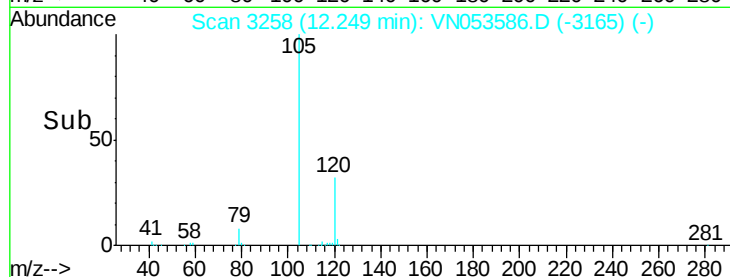
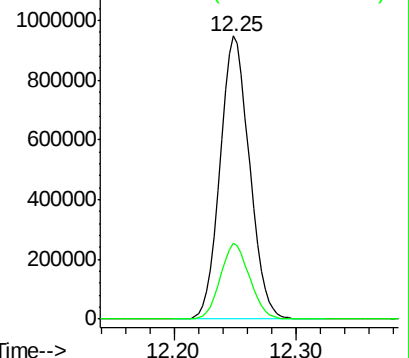
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Abundance Ion 105.00 (104.70 to 105.70): V

Ion 120.00 (119.70 to 120.70): V



#74

N-ethyl acetate

Concen: 46.894 ug/l

RT: 12.07 min Scan# 3202

Delta R.T. 0.00 min

Lab File: VN053586.D

Acq: 4 Feb 2019 10:09

Tgt Ion: 43 Resp: 357940

Ion Ratio Lower Upper

43 100

70 45.1 35.4 53.2

55 26.6 20.9 31.3

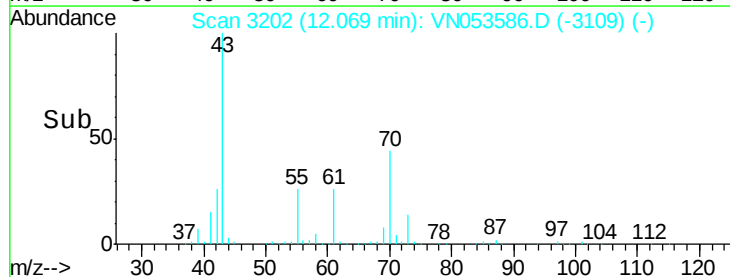
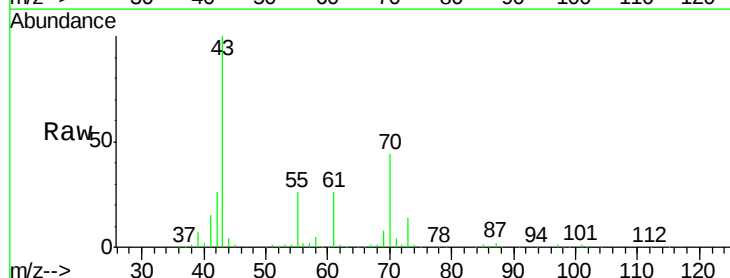
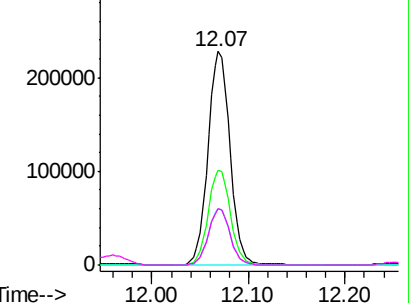
61 26.0 20.5 30.7

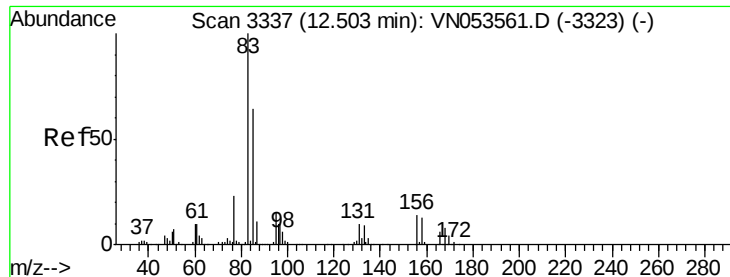
Abundance Ion 43.00 (42.70 to 43.70): V

Ion 70.00 (69.70 to 70.70): V

Ion 55.00 (54.70 to 55.70): V

Ion 61.00 (60.70 to 61.70): V





#75

1,1,2,2-Tetrachloroethane

Concen: 45.050 ug/l

RT: 12.50 min Scan# 3337

Delta R.T. 0.00 min

Lab File: VN053586.D

Acq: 4 Feb 2019 10:09

Instrument :

MSVOA_N

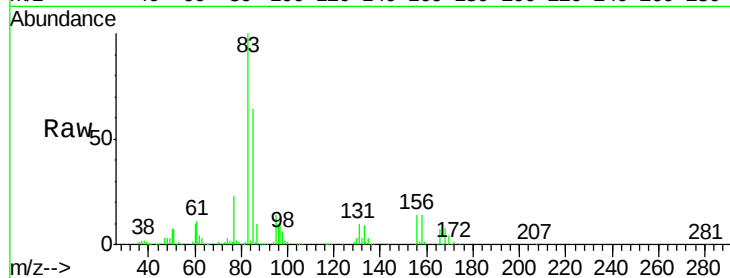
ClientSampleId :

VSTDCCC050

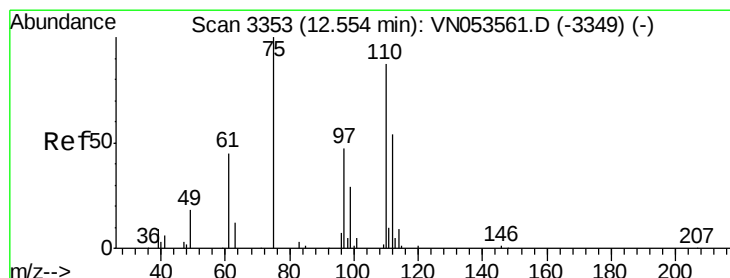
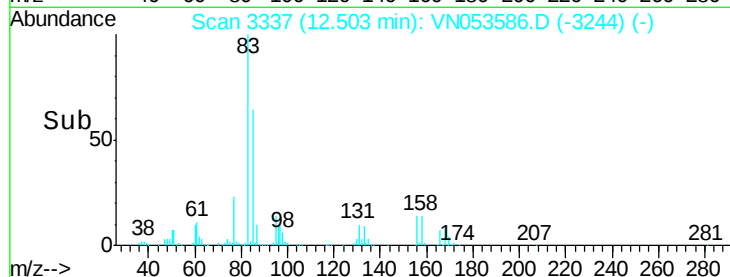
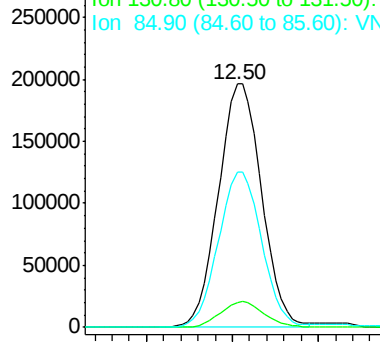
Tot Ion:	83	Resp:	342229
Ion Ratio	Lower	Upper	
83	100		
131	10.7	5.3	15.8
85	64.0	32.1	96.3

Manual Integrations
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Abundance Ion 82.90 (82.60 to 83.60): VN053586.D (-3337) (-)



#76

1,2,3-Trichloropropane

Concen: 48.653 ug/l m

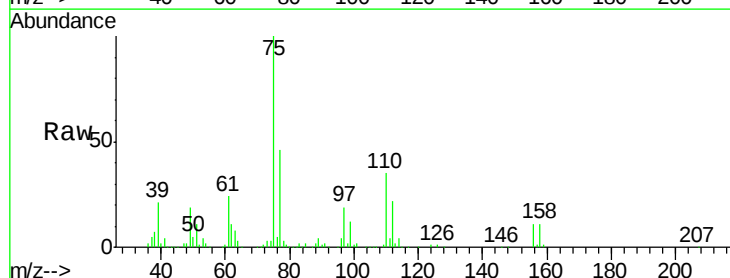
RT: 12.55 min Scan# 3353

Delta R.T. 0.00 min

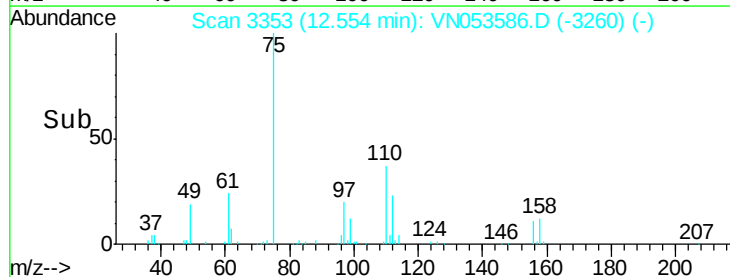
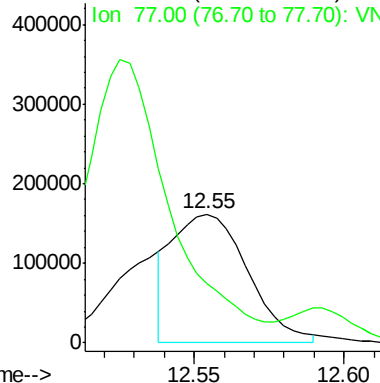
Lab File: VN053586.D

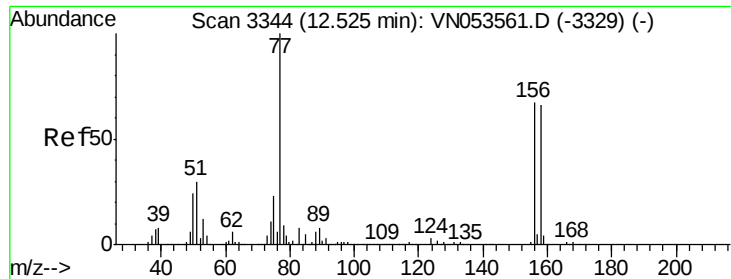
Acq: 4 Feb 2019 10:09

Tgt Ion:	75	Resp:	282169
Ion Ratio	Lower	Upper	
75	100		
77	0.0	0.0	0.0



Abundance Ion 74.90 (74.60 to 75.60): VN053586.D (-3353) (-)





#77

Bromobenzene

Concen: 48.877 ug/l

RT: 12.53 min Scan# 3344

Delta R.T. 0.00 min

Lab File: VN053586.D

Acq: 4 Feb 2019 10:09

Instrument :

MSVOA_N

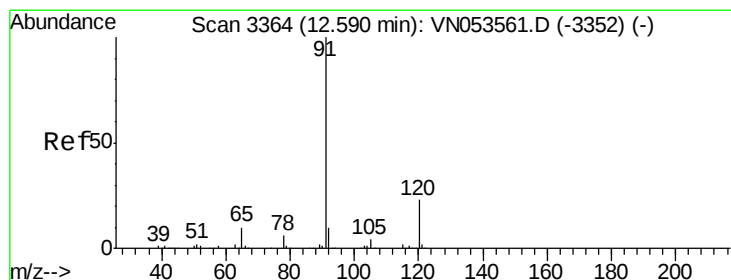
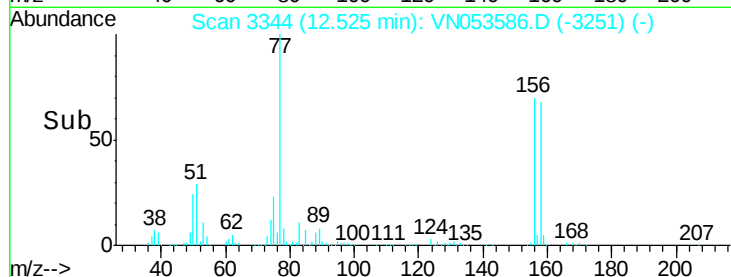
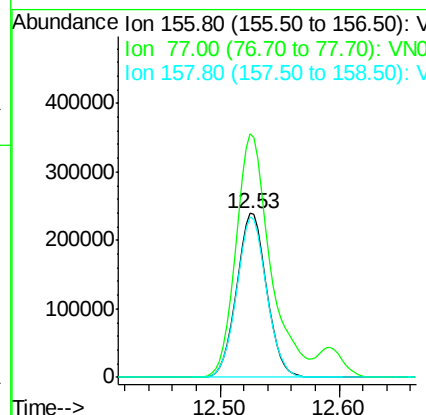
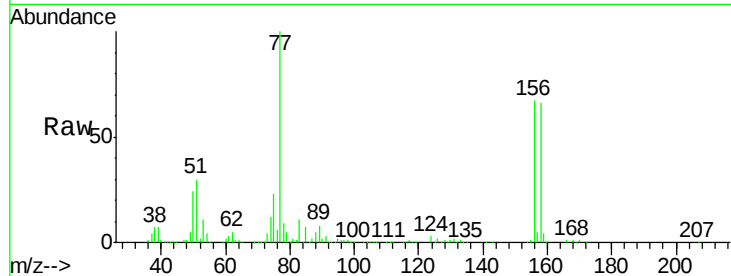
ClientSampleId :

VSTDCCC050

Tot Ion	Ratio	Lower	Upper
156	100		
77	169.6	87.9	263.8
158	97.4	48.8	146.4

Manual Integrations
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2/5/2019 9:53:41 AM



#78

n-propylbenzene

Concen: 51.154 ug/l

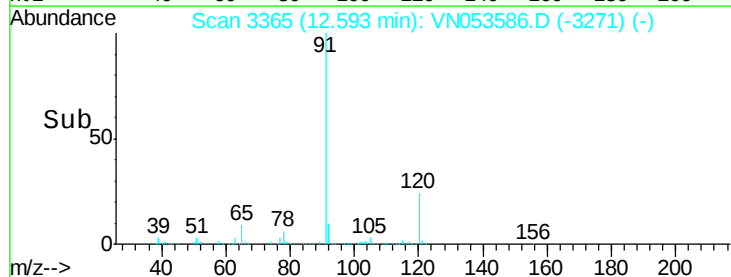
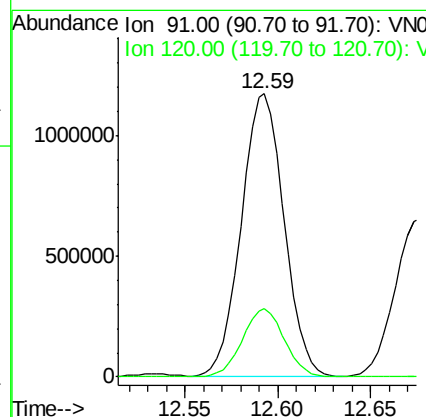
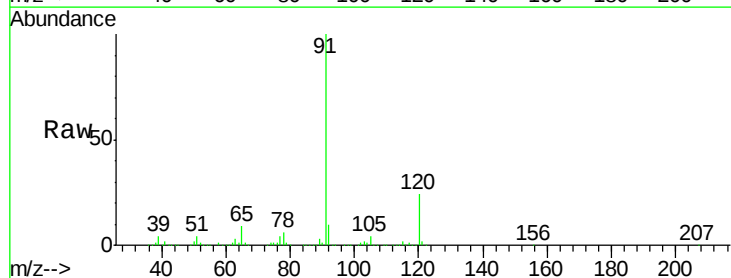
RT: 12.59 min Scan# 3365

Delta R.T. 0.00 min

Lab File: VN053586.D

Acq: 4 Feb 2019 10:09

Tgt Ion	Ratio	Lower	Upper
91	100		
120	23.8	11.9	35.5





#79

2-Chlorotoluene

Concen: 49.917 ug/l

RT: 12.68 min Scan# 3391

Delta R.T. 0.00 min

Lab File: VN053586.D

Acq: 4 Feb 2019 10:09

Instrument :

MSVOA_N

ClientSampleId :

VSTDCCC050

Tot Ion: 91 Resp: 1086698

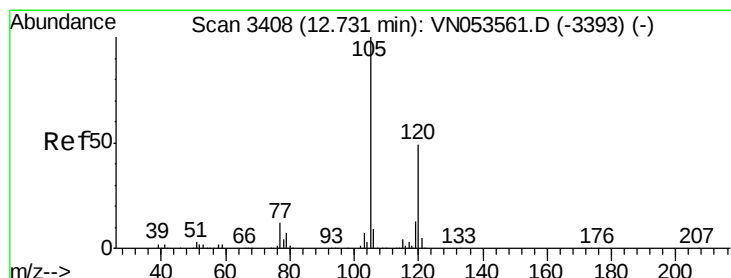
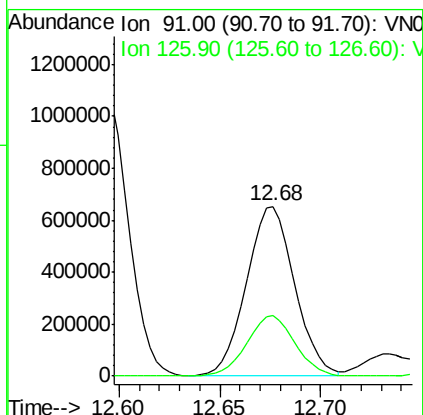
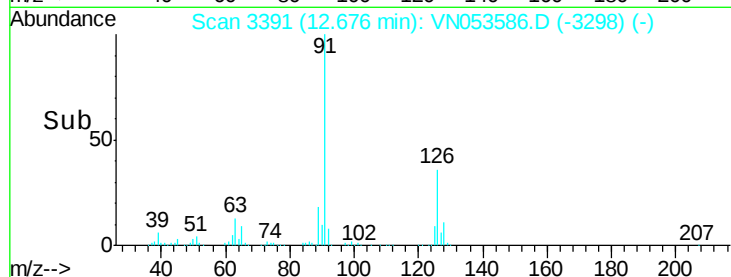
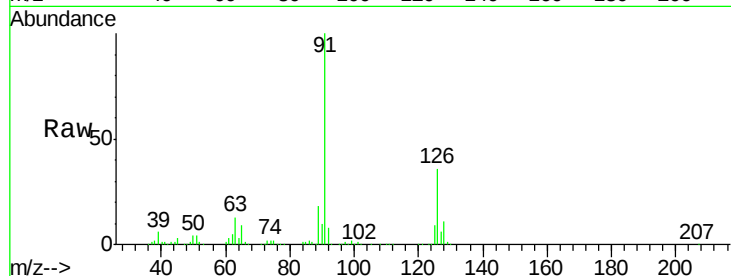
Ion Ratio Lower Upper

91 100

126 35.8 17.9 53.7

Manual Integrations
APPROVED

MMDadoda
2/5/2019 9:53:41 AM



#80

1,3,5-Trimethylbenzene

Concen: 52.199 ug/l

RT: 12.73 min Scan# 3409

Delta R.T. 0.00 min

Lab File: VN053586.D

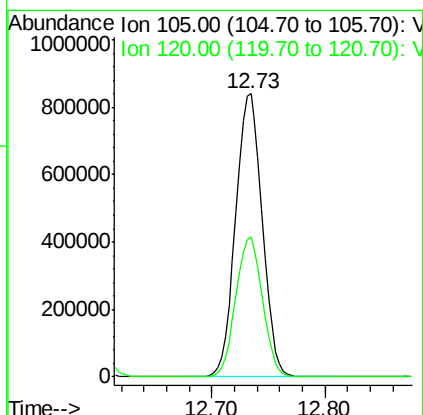
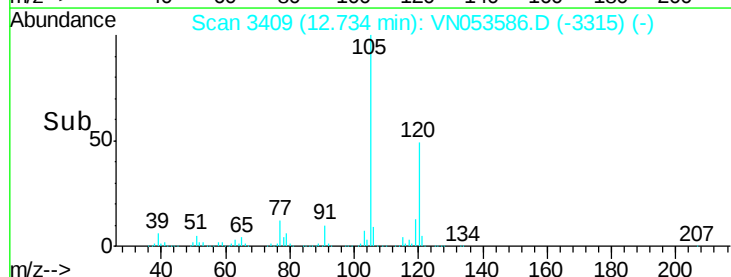
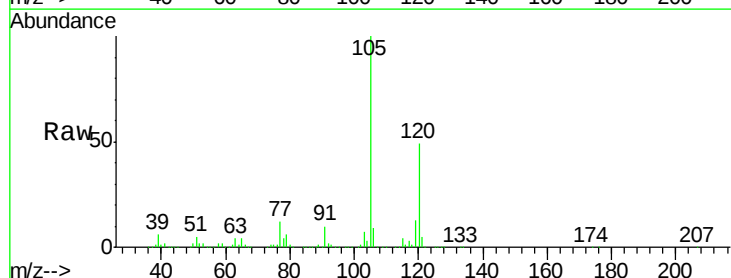
Acq: 4 Feb 2019 10:09

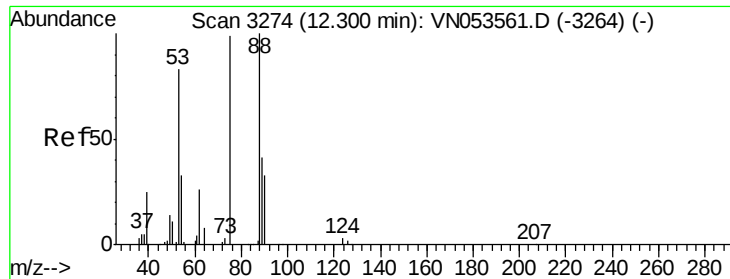
Tgt Ion: 105 Resp: 1373973

Ion Ratio Lower Upper

105 100

120 49.6 24.9 74.6





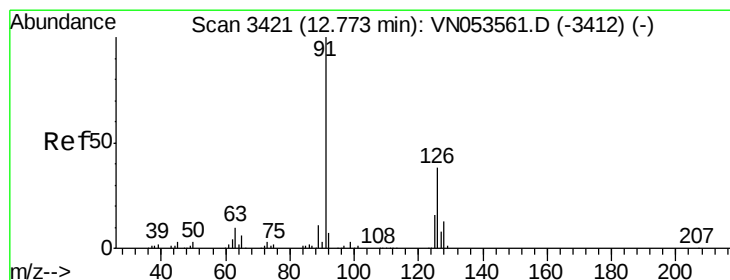
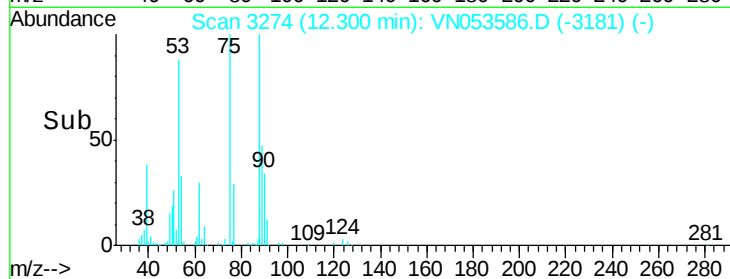
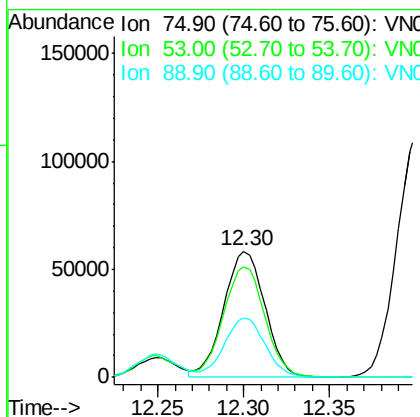
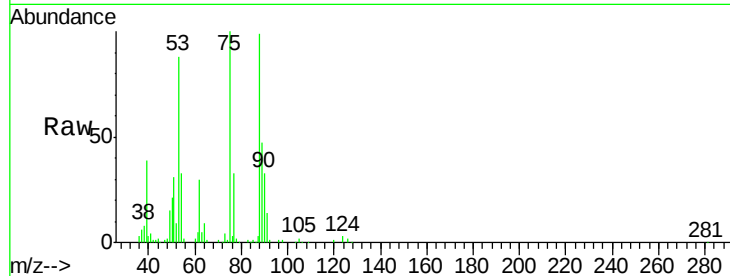
#81
trans-1,4-Dichloro-2-butene
Concen: 47.551 ug/l
RT: 12.30 min Scan# 3274
Delta R.T. 0.00 min
Lab File: VN053586.D
Acq: 4 Feb 2019 10:09

Instrument :
MSVOA_N
ClientSampled :
VSTDCCC050

Tot Ion	Ratio	Lower	Upper
75	100		
53	87.5	69.8	104.6
89	46.6	35.6	53.4

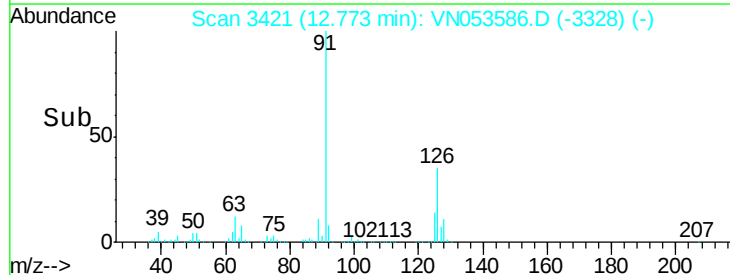
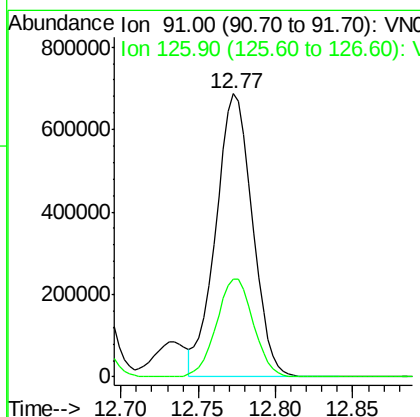
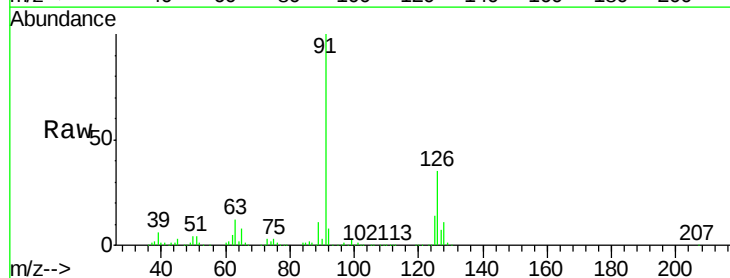
Manual Integrations
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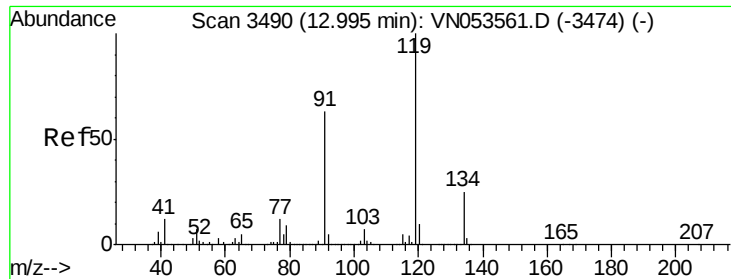
MMDadoda
2/5/2019 9:53:41 AM



#82
4-Chlorotoluene
Concen: 50.433 ug/l
RT: 12.77 min Scan# 3421
Delta R.T. 0.00 min
Lab File: VN053586.D
Acq: 4 Feb 2019 10:09

Tgt Ion	Ratio	Lower	Upper
91	100		
126	35.0	17.6	52.9





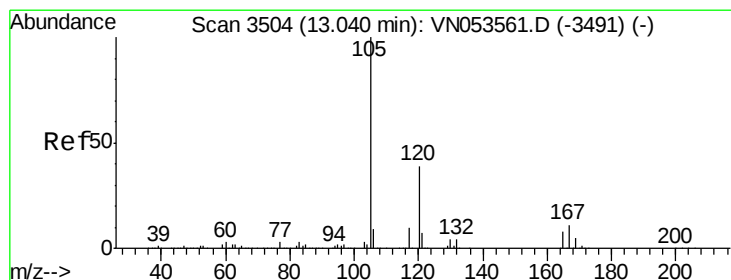
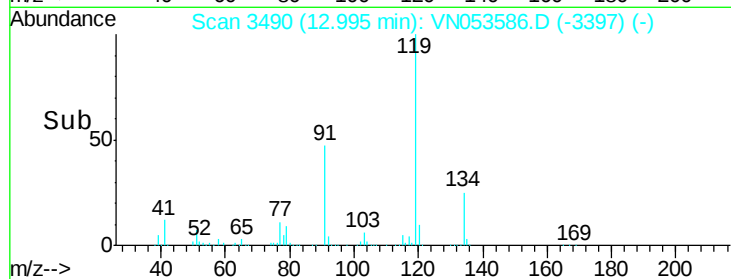
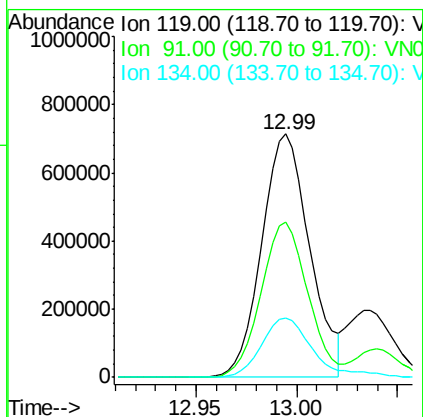
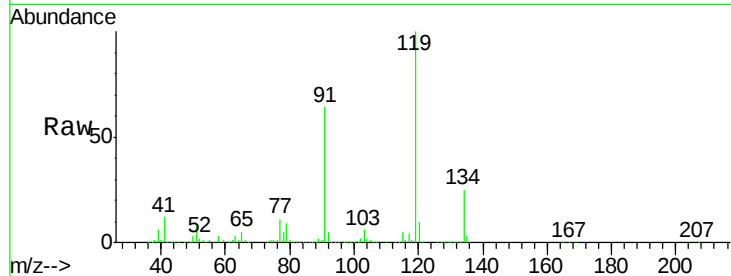
#83
tert-Butylbenzene
Concen: 50.923 ug/l
RT: 12.99 min Scan# 3490
Delta R.T. 0.00 min
Lab File: VN053586.D
Acq: 4 Feb 2019 10:09

Instrument :
MSVOA_N
ClientSampleId :
VSTDCCC050

Tot Ion	Ratio	Lower	Upper
119	100		
91	62.5	31.3	93.8
134	26.2	12.9	38.7

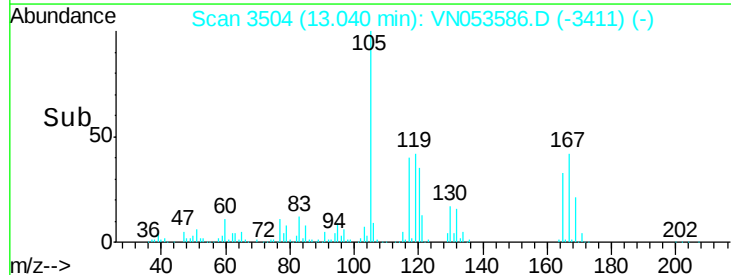
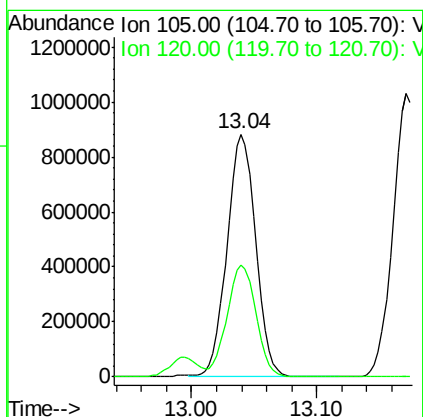
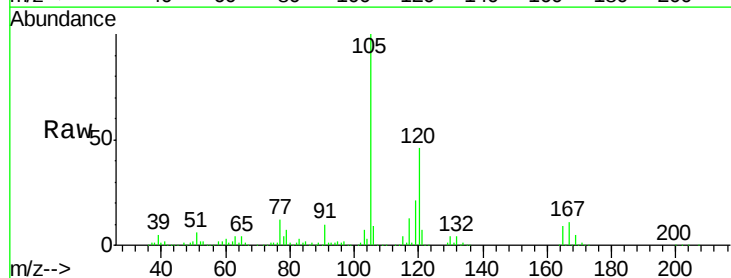
Manual Integrations
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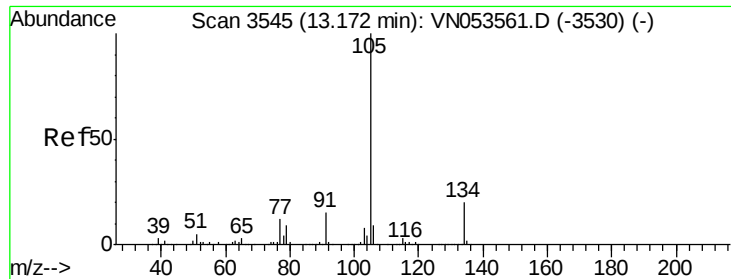
MMDadoda
2/5/2019 9:53:41 AM



#84
1,2,4-Trimethylbenzene
Concen: 52.083 ug/l
RT: 13.04 min Scan# 3504
Delta R.T. 0.00 min
Lab File: VN053586.D
Acq: 4 Feb 2019 10:09

Tgt Ion	Ratio	Lower	Upper
105	100		
120	46.7	23.0	69.0





#85

sec-Butylbenzene

Concen: 51.649 ug/l

RT: 13.17 min Scan# 3545

Delta R.T. 0.00 min

Lab File: VN053586.D

Acq: 4 Feb 2019 10:09

Instrument :

MSVOA_N

ClientSampled :

VSTDCCC050

Tot Ion:105 Resp: 1635087

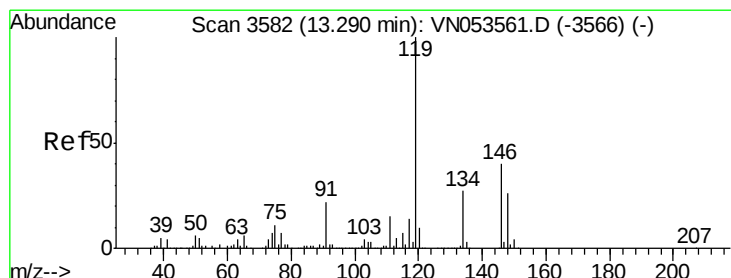
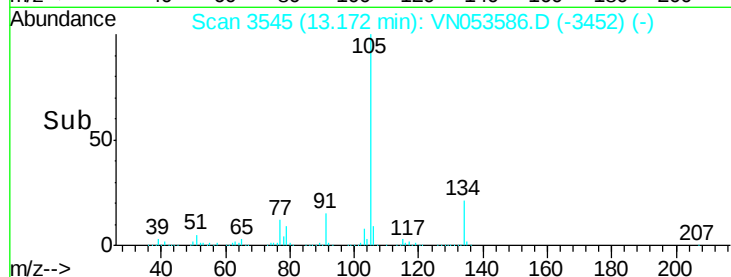
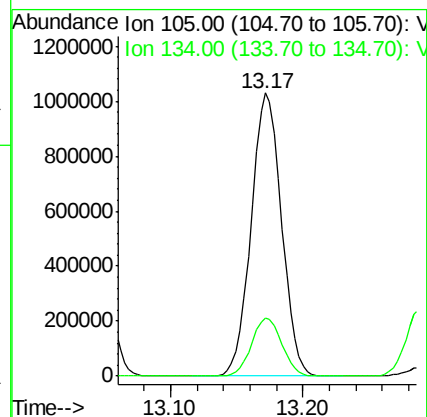
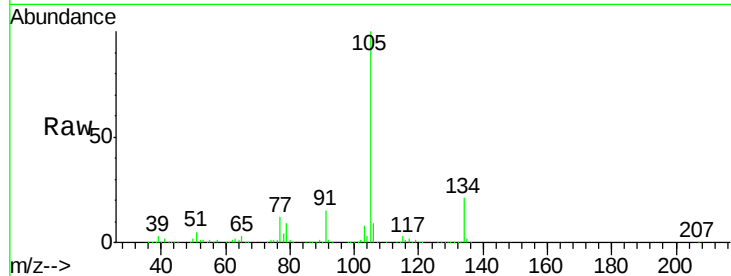
Ion Ratio Lower Upper

105 100

134 20.6 10.2 30.6

Manual Integrations
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2/5/2019 9:53:41 AM



#86

p-Isopropyltoluene

Concen: 53.089 ug/l

RT: 13.29 min Scan# 3582

Delta R.T. 0.00 min

Lab File: VN053586.D

Acq: 4 Feb 2019 10:09

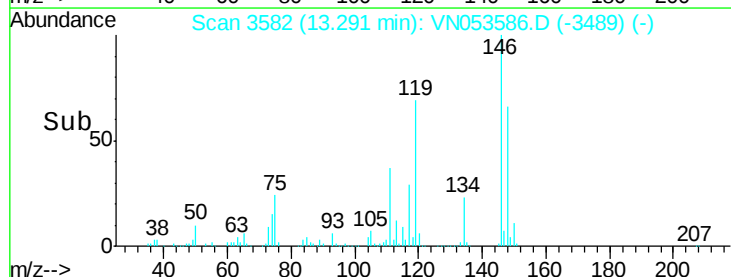
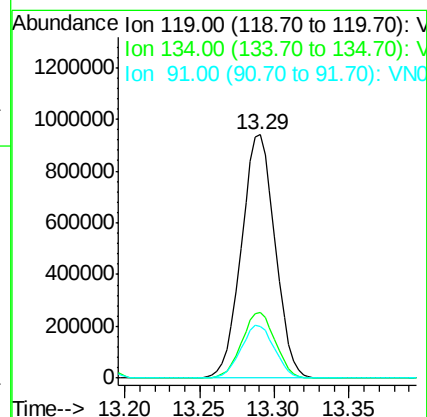
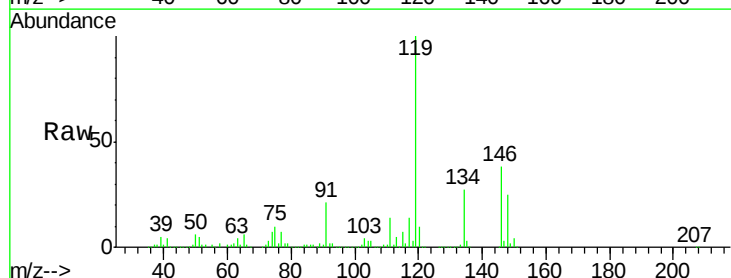
Tgt Ion:119 Resp: 1469904

Ion Ratio Lower Upper

119 100

134 26.9 13.5 40.4

91 21.8 11.0 33.0





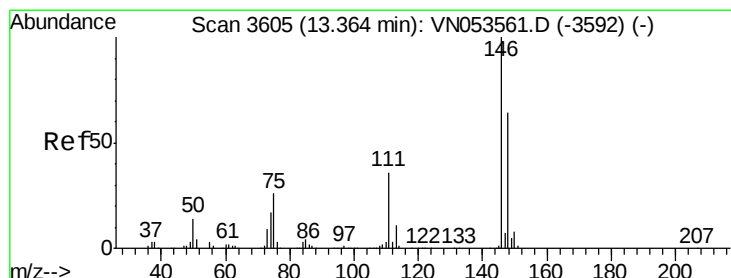
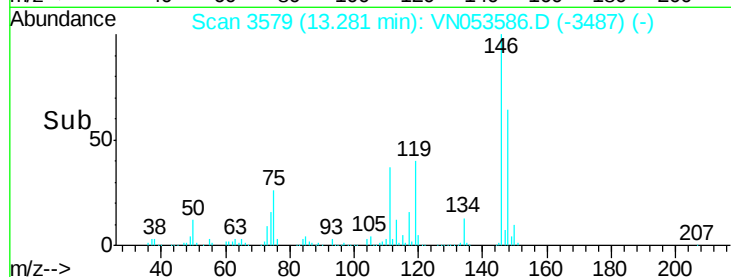
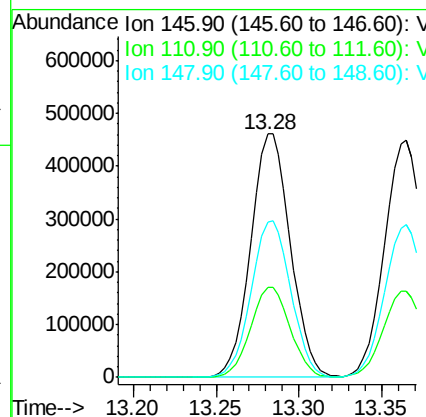
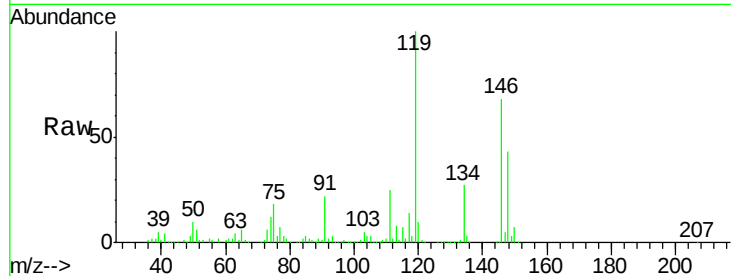
#87
 1,3-Dichlorobenzene
 Concen: 49.751 ug/l
 RT: 13.28 min Scan# 3579
 Delta R.T. -0.00 min
 Lab File: VN053586.D
 Acq: 4 Feb 2019 10:09

Instrument :
 MSVOA_N
 ClientSampleId :
 VSTDCCC050

Tot Ion	Ratio	Resp	Lower	Upper
146	100	765090		
111	37.1	18.8	56.3	
148	64.3	32.0	96.2	

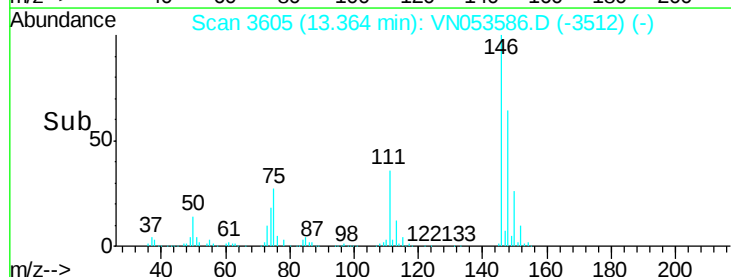
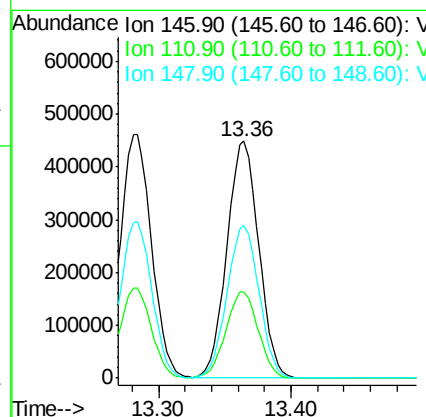
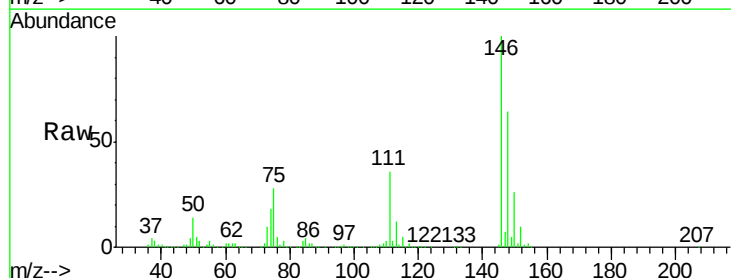
Manual Integrations
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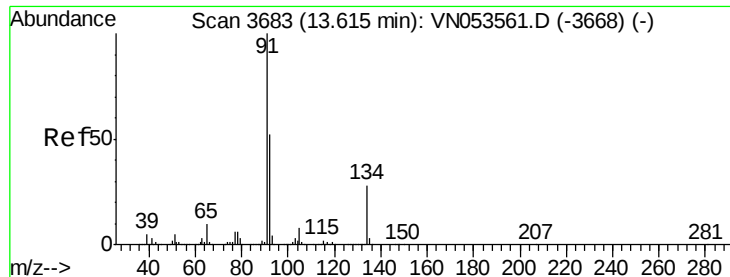
MMDadoda
 2/5/2019 9:53:41 AM



#88
 1,4-Dichlorobenzene
 Concen: 49.130 ug/l
 RT: 13.36 min Scan# 3605
 Delta R.T. 0.00 min
 Lab File: VN053586.D
 Acq: 4 Feb 2019 10:09

Tgt Ion	Ratio	Resp	Lower	Upper
146	100	747380		
111	37.0	18.6	55.8	
148	65.0	32.4	97.0	





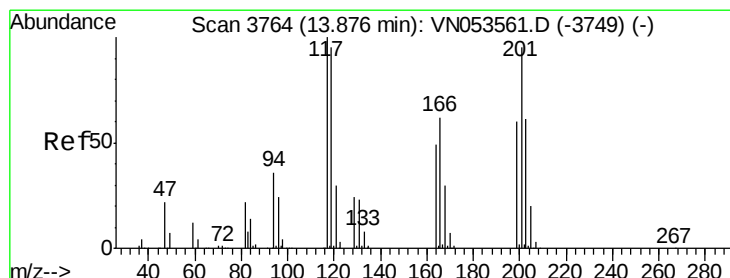
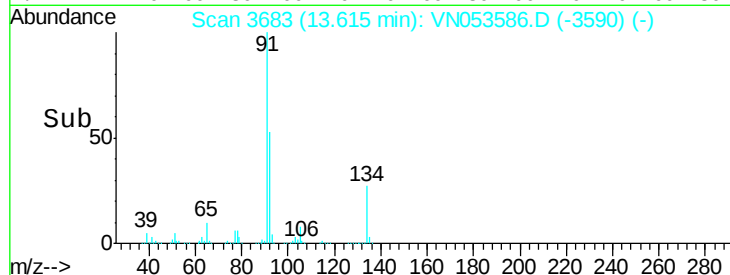
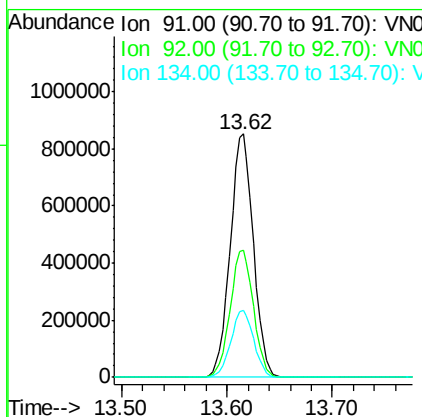
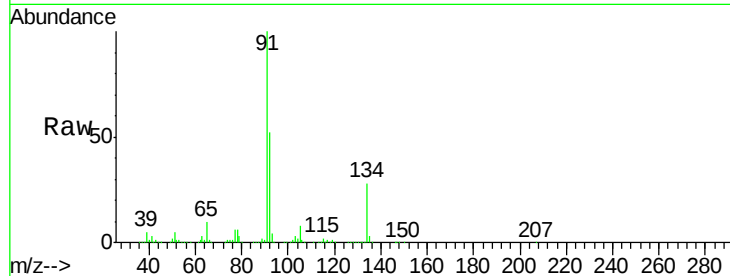
#89
n-Butylbenzene
Concen: 53.602 ug/l
RT: 13.62 min Scan# 3683
Delta R.T. 0.00 min
Lab File: VN053586.D
Acq: 4 Feb 2019 10:09

Instrument :
MSVOA_N
ClientSampled :
VSTDCCC050

Tot Ion: 91 Resp: 1284580
Ion Ratio Lower Upper
91 100
92 52.5 26.3 78.8
134 27.2 13.5 40.5

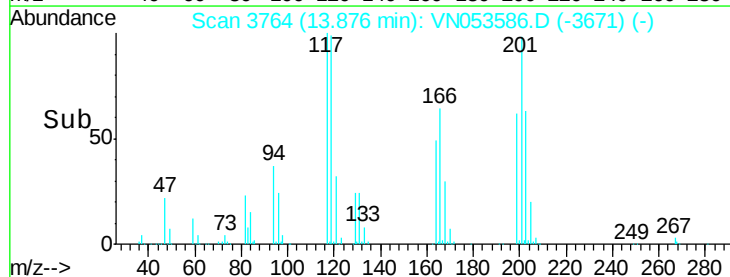
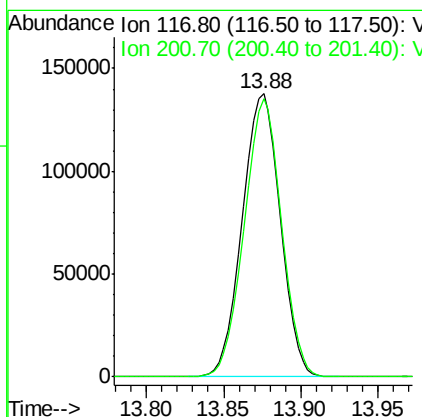
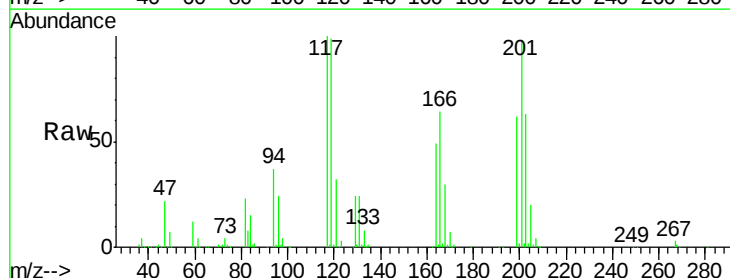
Manual Integrations
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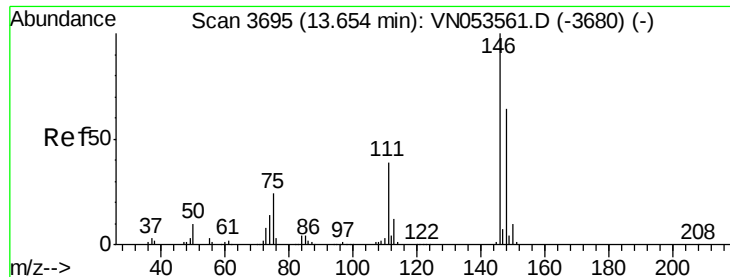
MMDadoda
2/5/2019 9:53:41 AM



#90
Hexachloroethane
Concen: 51.738 ug/l
RT: 13.88 min Scan# 3764
Delta R.T. 0.00 min
Lab File: VN053586.D
Acq: 4 Feb 2019 10:09

Tgt Ion: 117 Resp: 236284
Ion Ratio Lower Upper
117 100
201 96.0 46.8 140.4





#91

1,2-Dichlorobenzene

Concen: 49.421 ug/l

RT: 13.65 min Scan# 3695

Delta R.T. 0.00 min

Lab File: VN053586.D

Acq: 4 Feb 2019 10:09

Instrument :

MSVOA_N

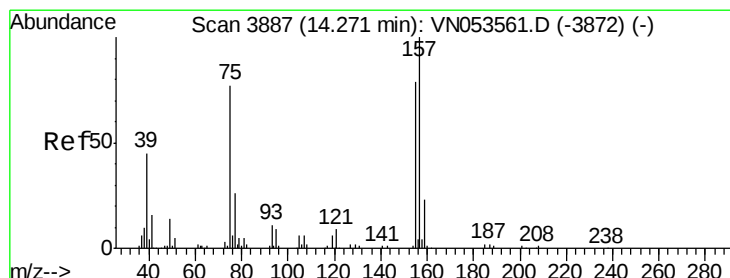
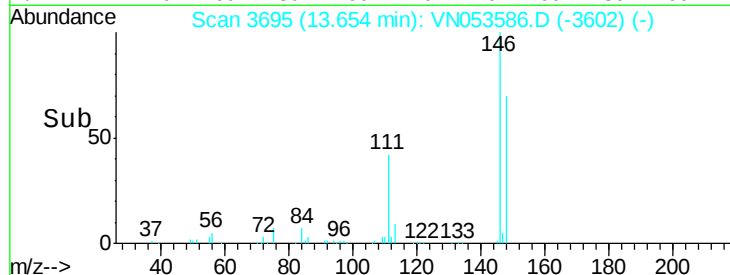
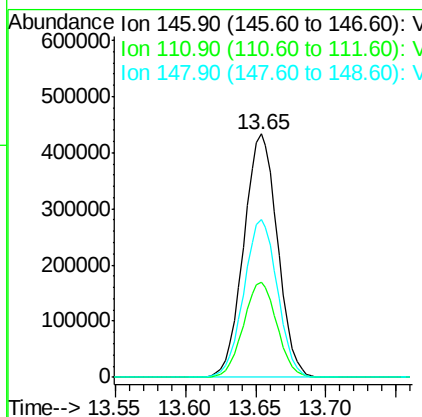
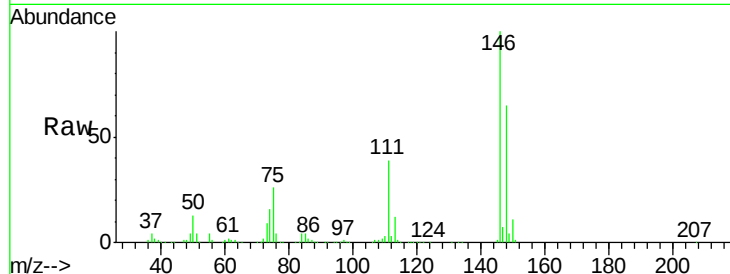
ClientSampled :

VSTDCCC050

Tot Ion:	146	Resp:	727607
Ion Ratio		Lower	Upper
146	100		
111	38.9	19.5	58.5
148	64.5	31.9	95.9

Manual Integrations
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MMDadoda
2/5/2019 9:53:41 AM



#92

1,2-Dibromo-3-Chloropropane

Concen: 46.399 ug/l

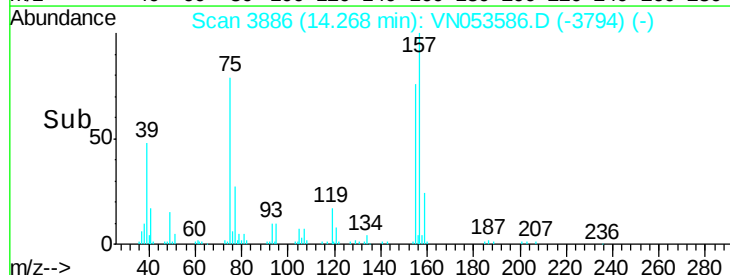
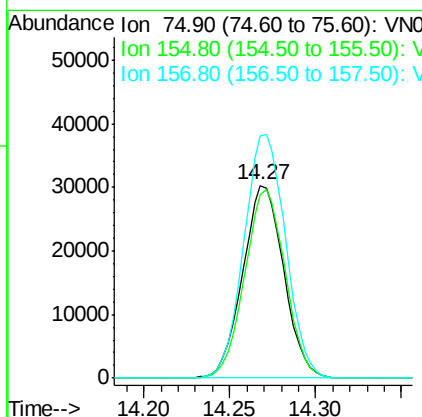
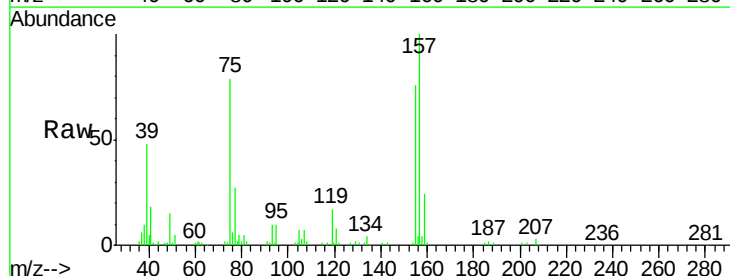
RT: 14.27 min Scan# 3886

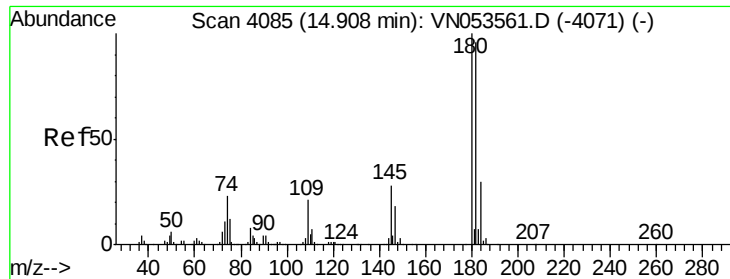
Delta R.T. -0.00 min

Lab File: VN053586.D

Acq: 4 Feb 2019 10:09

Tgt Ion:	75	Resp:	50235
Ion Ratio		Lower	Upper
75	100		
155	96.6	48.9	146.7
157	128.5	63.7	191.3





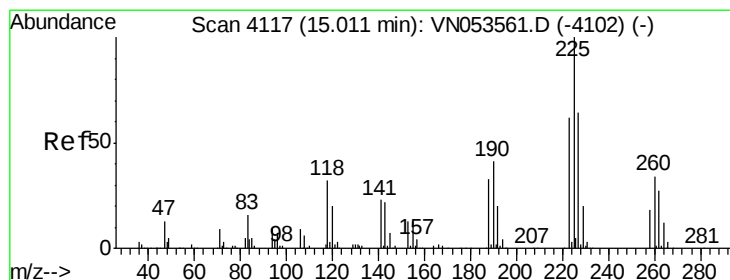
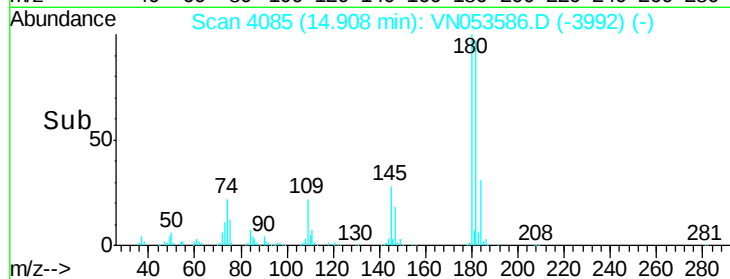
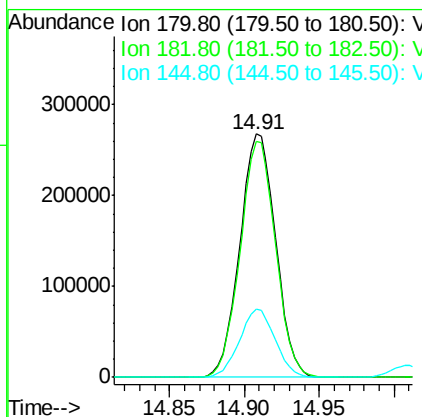
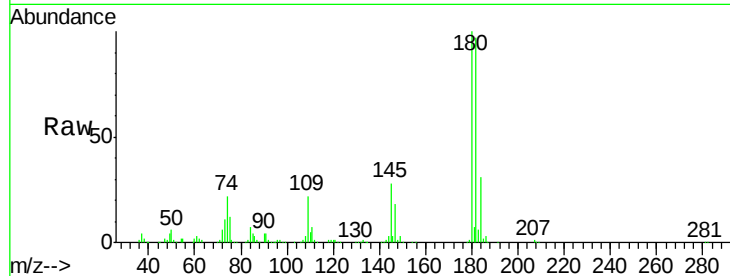
#93
 1,2,4-Trichlorobenzene
 Concen: 52.799 ug/l
 RT: 14.91 min Scan# 4085
 Delta R.T. 0.00 min
 Lab File: VN053586.D
 Acq: 4 Feb 2019 10:09

Instrument :
 MSVOA_N
 ClientSampleId :
 VSTDCCC050

Tot Ion	Ratio	Resp	Lower	Upper
180	100	445827		
182	96.0		48.1	144.3
145	27.7		13.9	41.6

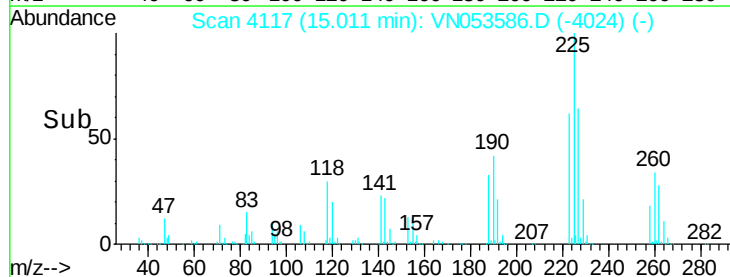
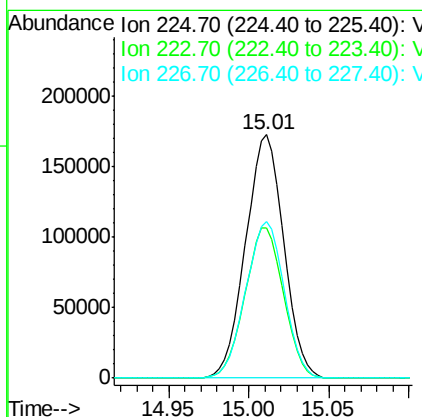
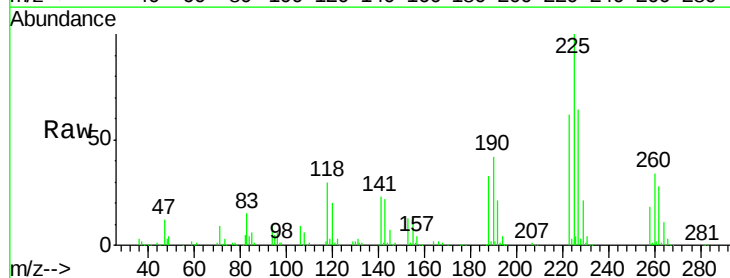
Manual Integrations
 APPROVED

MMDadoda
 2/5/2019 9:53:41 AM



#94
 Hexachlorobutadiene
 Concen: 53.623 ug/l
 RT: 15.01 min Scan# 4117
 Delta R.T. 0.00 min
 Lab File: VN053586.D
 Acq: 4 Feb 2019 10:09

Tgt Ion	Ratio	Resp	Lower	Upper
225	100	281978		
223	62.4		31.1	93.2
227	64.9		32.0	96.2





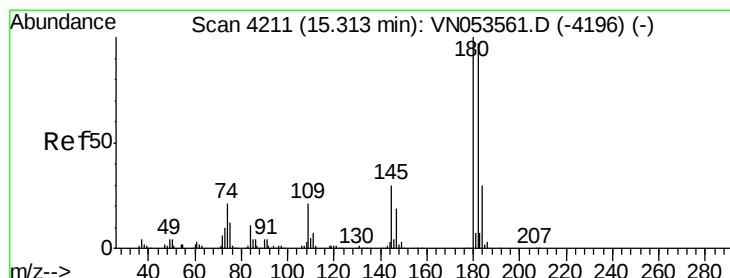
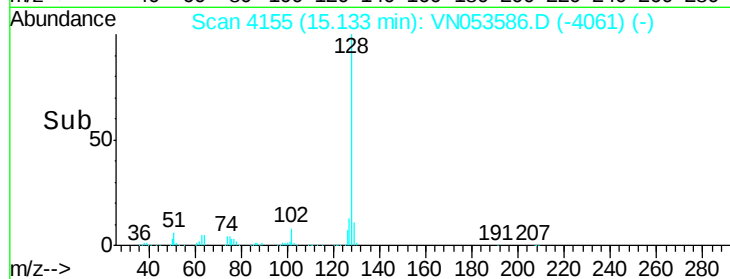
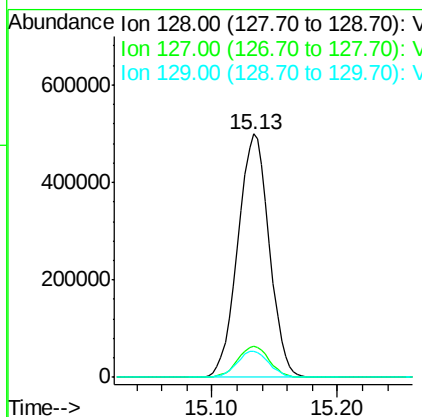
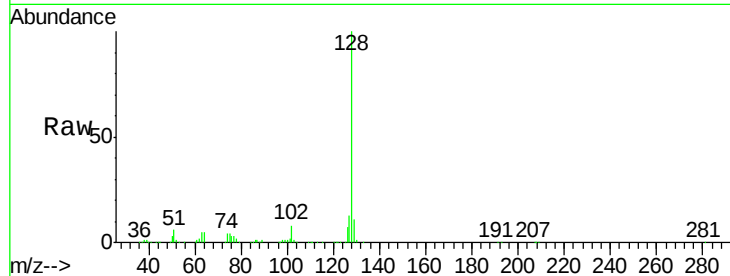
#95
Naphthalene
Concen: 43.979 ug/l
RT: 15.13 min Scan# 4155
Delta R.T. 0.00 min
Lab File: VN053586.D
Acq: 4 Feb 2019 10:09

Instrument :
MSVOA_N
ClientSampleId :
VSTDCCC050

Tot Ion	Ratio	Resp	Lower	Upper
128	100	868027		
127	12.9		10.3	15.5
129	10.9		8.6	13.0

Manual Integrations
APPROVED

MMDadoda
2/5/2019 9:53:41 AM



#96
1,2,3-Trichlorobenzene
Concen: 50.730 ug/l
RT: 15.31 min Scan# 4211
Delta R.T. 0.00 min
Lab File: VN053586.D
Acq: 4 Feb 2019 10:09

Tgt Ion	Ratio	Resp	Lower	Upper
180	100	397456		
182	96.4		47.9	143.8
145	29.6		14.7	44.1

