

Data Path : Z:\VOASRV\HPCHEM1\MSVOA N\DATA\VN020819\
 Data File : VN053689.D
 Acq On : 8 Feb 2019 18:38
 Operator : JC/SP
 Sample : VN0208MBSD01
 Misc : 5.00µg/10mL/100µL/5.00mL/MSVOA_N/MEOH
 ALS Vial : 19 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 VN0208MBSD01

Manual Integrations
 APPROVED

MMDadoda
 2/11/2019 9:50:02 AM

Quant Time: Feb 09 03:33:59 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	725692	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	8.59	114	1155267	50.00	ug/l	0.00
63) Chlorobenzene-d5	11.41	117	991088	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.35	152	458482	50.00	ug/l	0.00

System Monitoring Compounds

33) 1,2-Dichloroethane-d4	8.03	65	366188	50.30	ug/l	0.00
Spiked Amount	50.000		Recovery	=	100.60%	
35) Dibromofluoromethane	7.59	113	357499	48.97	ug/l	0.00
Spiked Amount	50.000		Recovery	=	97.94%	
50) Toluene-d8	10.09	98	1301185	47.47	ug/l	0.00
Spiked Amount	50.000		Recovery	=	94.94%	
62) 4-Bromofluorobenzene	12.40	95	431091	47.16	ug/l	0.00
Spiked Amount	50.000		Recovery	=	94.32%	

Target Compounds

						Qvalue
2) Dichlorodifluoromethane	1.85	85	148202	18.330	ug/l	99
3) Chloromethane	2.06	50	166983	19.382	ug/l	100
4) Vinyl Chloride	2.19	62	165233	19.757	ug/l	99
5) Bromomethane	2.57	94	117261	21.444	ug/l	98
6) Chloroethane	2.71	64	107040	22.397	ug/l	96
7) Trichlorofluoromethane	3.02	101	241418	21.287	ug/l	99
8) Diethyl Ether	3.41	74	83800	20.232	ug/l	100
9) 1,1,2-Trichlorotrifluoroet	3.76	101	136414	19.449	ug/l	98
10) Methyl Iodide	3.96	142	211125	19.177	ug/l	98
11) Tert butyl alcohol	4.79	59	48687	113.001	ug/l #	88
12) 1,1-Dichloroethene	3.74	96	135026	20.093	ug/l	97
13) Acrolein	3.61	56	20693	88.212	ug/l	95
14) Allyl chloride	4.33	41	211038	19.724	ug/l	99
15) Acrylonitrile	4.99	53	252674	108.632	ug/l	99
16) Acetone	3.82	43	167743	89.829	ug/l	95
17) Carbon Disulfide	4.06	76	367678	17.571	ug/l	98
18) Methyl Acetate	4.33	43	125030	22.608	ug/l	98
19) Methyl tert-butyl Ether	5.05	73	370762	21.764	ug/l	99
20) Methylene Chloride	4.55	84	163128	20.822	ug/l	96
21) trans-1,2-Dichloroethene	5.04	96	141940	19.578	ug/l	95
22) Diisopropyl ether	5.95	45	414756	20.920	ug/l	93
23) Vinyl Acetate	5.90	43	1417038	103.318	ug/l	98
24) 1,1-Dichloroethane	5.85	63	270495	20.455	ug/l	100
25) 2-Butanone	6.84	43	262967	98.738	ug/l	97
26) 2,2-Dichloropropane	6.83	77	179174	17.750	ug/l	99
27) cis-1,2-Dichloroethene	6.83	96	163656	20.300	ug/l	98
28) Bromochloromethane	7.20	49	118078	20.576	ug/l	98
29) Tetrahydrofuran	7.21	42	184460	107.861	ug/l	97
30) Chloroform	7.37	83	262780	20.046	ug/l	99
31) Cyclohexane	7.65	56	233788	18.883	ug/l	96
32) 1,1,1-Trichloroethane	7.57	97	219430	20.114	ug/l	99
36) 1,1-Dichloropropene	7.79	75	191696	18.407	ug/l	98
37) Ethyl Acetate	6.93	43	121290	20.854	ug/l	99
38) Carbon Tetrachloride	7.77	117	188863	18.002	ug/l	99

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 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
39) Methylcyclohexane	9.08	83	215652	17.454	ug/l	98
40) Benzene	8.04	78	612619	19.076	ug/l	98
41) Methacrylonitrile	7.18	41	66575	20.480	ug/l	93
42) 1,2-Dichloroethane	8.13	62	181927	19.079	ug/l	99
43) Isopropyl Acetate	8.17	43	226459	20.161	ug/l	97
44) Trichloroethene	8.84	130	168187	18.396	ug/l	97
45) 1,2-Dichloropropane	9.12	63	161360	19.645	ug/l	99
46) Dibromomethane	9.21	93	94302	19.045	ug/l	98
47) Bromodichloromethane	9.40	83	195880	19.026	ug/l	100
48) Methyl methacrylate	9.20	41	106598	19.881	ug/l	98
49) 1,4-Dioxane	9.20	88	31571	429.574	ug/l #	91
51) 4-Methyl-2-Pentanone	9.99	43	573476	103.897	ug/l	99
52) Toluene	10.16	92	369080	19.365	ug/l	99
53) t-1,3-Dichloropropene	10.38	75	193008	18.722	ug/l	99
54) cis-1,3-Dichloropropene	9.84	75	228343	18.692	ug/l	99
55) 1,1,2-Trichloroethane	10.56	97	140830	20.505	ug/l	96
56) Ethyl methacrylate	10.43	69	163901	20.173	ug/l	97
57) 1,3-Dichloropropane	10.71	76	229801	19.578	ug/l	100
58) 2-Chloroethyl Vinyl ether	9.70	63	401759	85.188	ug/l	98
59) 2-Hexanone	10.75	43	355621	94.905	ug/l	99
60) Dibromochloromethane	10.90	129	149886	19.353	ug/l	99
61) 1,2-Dibromoethane	11.01	107	130692	19.226	ug/l	100
64) Tetrachloroethene	10.63	164	156600	18.433	ug/l	99
65) Chlorobenzene	11.44	112	401277	19.061	ug/l	100
66) 1,1,1,2-Tetrachloroethane	11.51	131	143972	19.582	ug/l	99
67) Ethyl Benzene	11.51	91	661054	19.116	ug/l	100
68) m/p-Xylenes	11.62	106	516157	39.107	ug/l	100
69) o-Xylene	11.95	106	253626	19.891	ug/l	99
70) Styrene	11.96	104	413255	19.996	ug/l	99
71) Bromoform	12.13	173	99832	19.806	ug/l #	97
73) Isopropylbenzene	12.25	105	662978	20.570	ug/l	99
74) N-amyl acetate	12.07	43	165474	21.350	ug/l	99
75) 1,1,2,2-Tetrachloroethane	12.51	83	158877	20.597	ug/l	100
76) 1,2,3-Trichloropropane	12.55	75	121407m	20.616	ug/l	
77) Bromobenzene	12.53	156	173181	19.937	ug/l	99
78) n-propylbenzene	12.59	91	751072	20.158	ug/l	100
79) 2-Chlorotoluene	12.68	91	449517	20.335	ug/l	99
80) 1,3,5-Trimethylbenzene	12.73	105	565500	21.158	ug/l	99
81) trans-1,4-Dichloro-2-buten	12.30	75	40099	19.147	ug/l	99
82) 4-Chlorotoluene	12.77	91	450075	19.842	ug/l	100
83) tert-Butylbenzene	12.99	119	509534	21.570	ug/l	99
84) 1,2,4-Trimethylbenzene	13.04	105	567993	20.859	ug/l	100
85) sec-Butylbenzene	13.17	105	676315	21.040	ug/l	100
86) p-Isopropyltoluene	13.29	119	582501	20.720	ug/l	100
87) 1,3-Dichlorobenzene	13.28	146	301350	19.299	ug/l	99
88) 1,4-Dichlorobenzene	13.36	146	301298	19.506	ug/l	99
89) n-Butylbenzene	13.62	91	469096	19.277	ug/l	99
90) Hexachloroethane	13.88	117	94214	20.317	ug/l	97
91) 1,2-Dichlorobenzene	13.65	146	301090	20.141	ug/l	100
92) 1,2-Dibromo-3-Chloropropan	14.27	75	23064	20.980	ug/l	98

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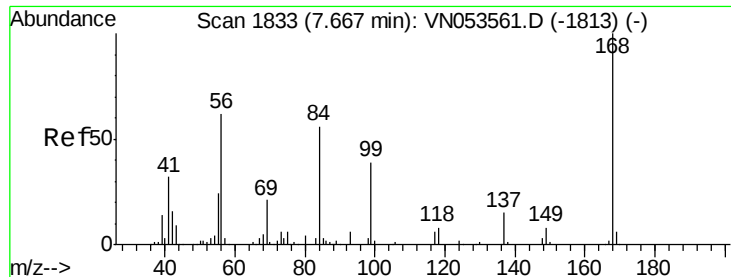
Manual Integrations
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MMDadoda
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Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
93) 1,2,4-Trichlorobenzene	14.91	180	160463	18.716	ug/l	99
94) Hexachlorobutadiene	15.01	225	105954	19.844	ug/l	99
95) Naphthalene	15.13	128	346045	18.321	ug/l	99
96) 1,2,3-Trichlorobenzene	15.32	180	156444	19.665	ug/l	98

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



#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 7.67 min Scan# 1833

Delta R.T. 0.00 min

Lab File: VN053689.D

Acq: 8 Feb 2019 18:38

Instrument :

MSVOA_N

ClientSampleId :

VN0208MBS01

Tot Ion:168 Resp: 725692

Ion Ratio Lower Upper

168 100

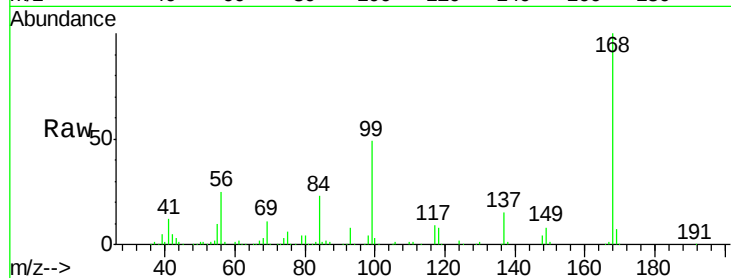
99 48.0 39.1 58.7

Manual Integrations

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2/11/2019 9:50:02 AM



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VN0

7.67

300000

250000

200000

150000

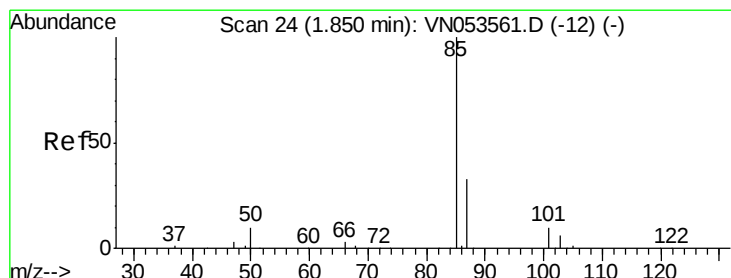
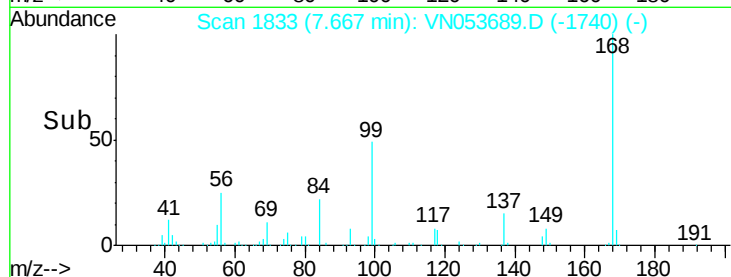
100000

50000

0

7.50 7.60 7.70 7.80 7.90

Time-->



#2

Dichlorodifluoromethane

Concen: 18.330 ug/l

RT: 1.85 min Scan# 24

Delta R.T. 0.00 min

Lab File: VN053689.D

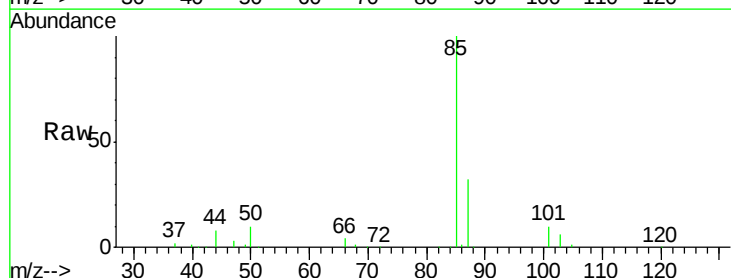
Acq: 8 Feb 2019 18:38

Tgt Ion: 85 Resp: 148202

Ion Ratio Lower Upper

85 100

87 32.0 16.2 48.5



Abundance Ion 84.90 (84.60 to 85.60): VN0

Ion 86.90 (86.60 to 87.60): VN0

1.85

120000

100000

80000

60000

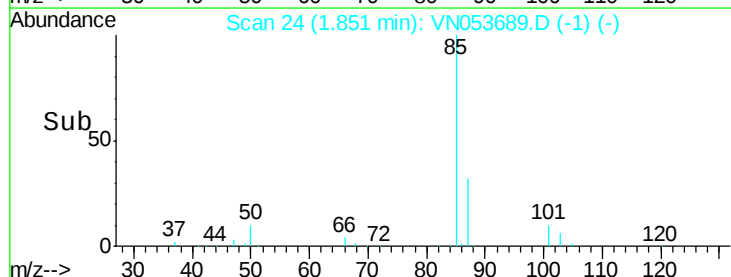
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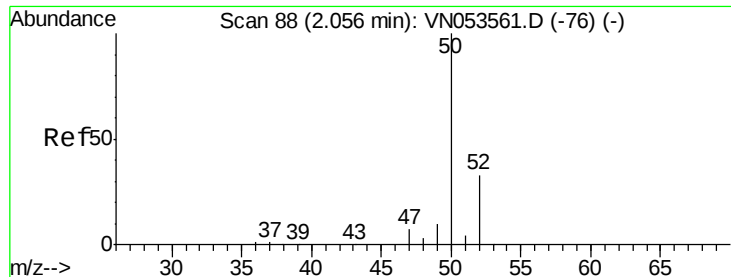
20000

0

1.80 1.85 1.90 1.95

Time-->





#3

Chloromethane

Concen: 19.382 ug/l

RT: 2.06 min Scan# 89

Delta R.T. 0.00 min

Lab File: VN053689.D

Acq: 8 Feb 2019 18:38

Instrument :

MSVOA_N

ClientSampleId :

VN0208MBS01

Tot Ion: 50 Resp: 166983

Ion Ratio Lower Upper

50 100

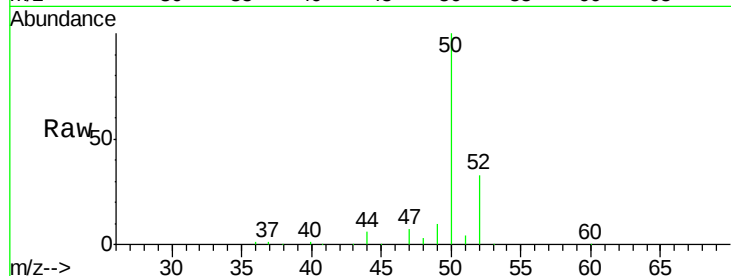
52 33.4 26.6 40.0

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Abundance Ion 49.90 (49.60 to 50.60): VN0

Ion 51.90 (51.60 to 52.60): VN0

2.06

120000

100000

80000

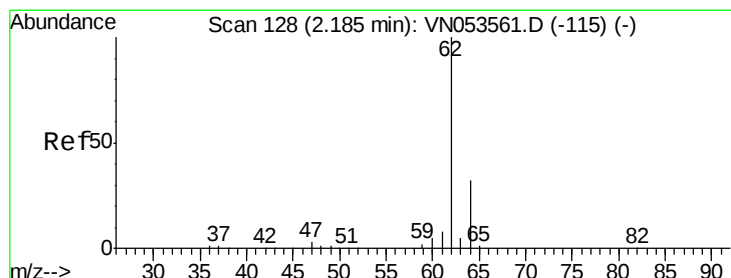
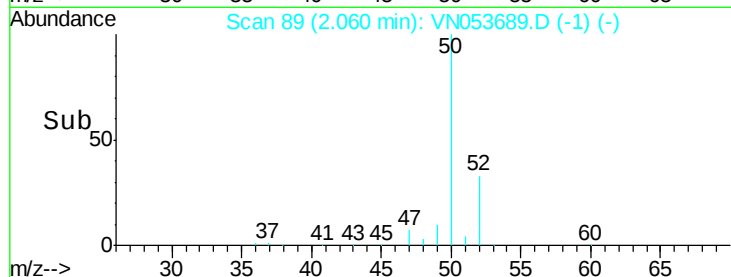
60000

40000

20000

0

Time-->



#4

Vinyl Chloride

Concen: 19.757 ug/l

RT: 2.19 min Scan# 129

Delta R.T. 0.00 min

Lab File: VN053689.D

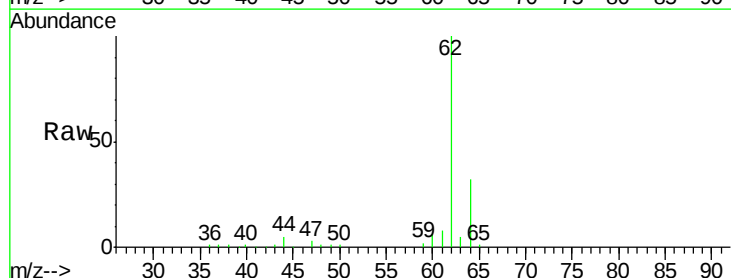
Acq: 8 Feb 2019 18:38

Tgt Ion: 62 Resp: 165233

Ion Ratio Lower Upper

62 100

64 32.4 25.4 38.2



Abundance Ion 61.90 (61.60 to 62.60): VN0

Ion 63.90 (63.60 to 64.60): VN0

2.19

120000

100000

80000

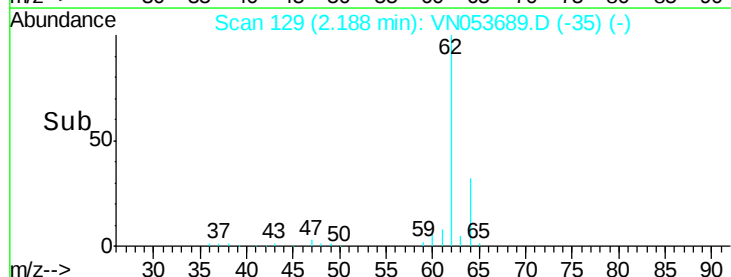
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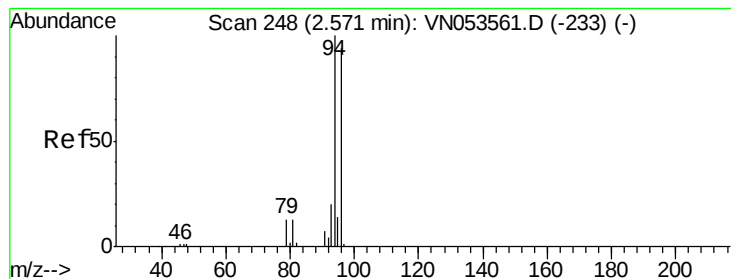
40000

20000

0

Time-->





#5

Bromomethane

Concen: 21.444 ug/l

RT: 2.57 min Scan# 249

Delta R.T. 0.00 min

Lab File: VN053689.D

Acq: 8 Feb 2019 18:38

Instrument :

MSVOA_N

ClientSampleId :

VN0208MBSD01

Tot Ion: 94 Resp: 117261

Ion Ratio Lower Upper

94 100

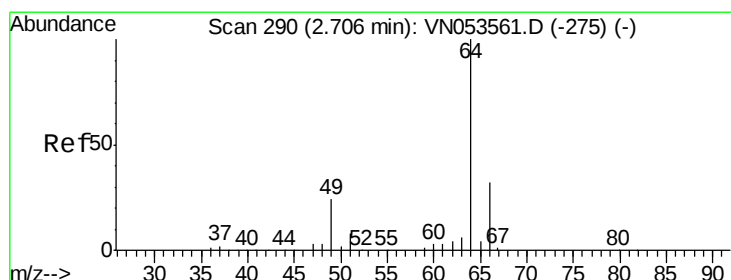
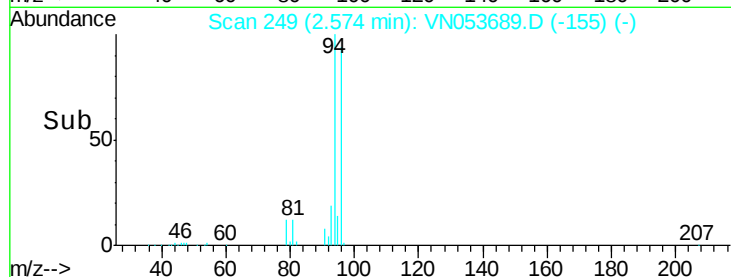
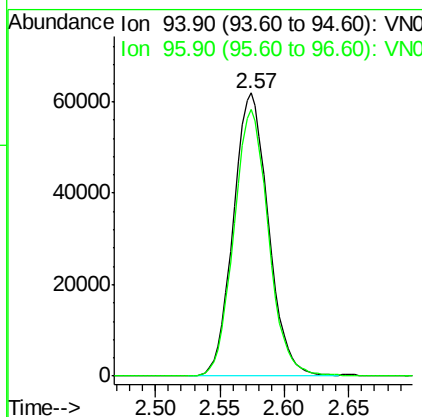
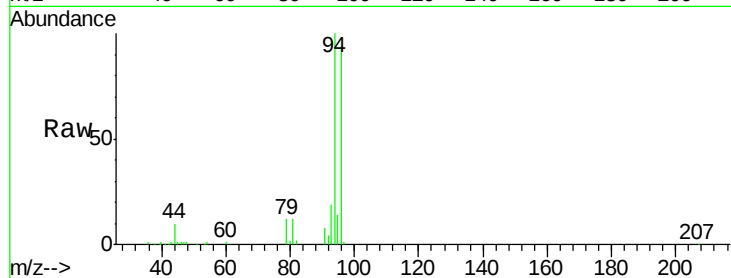
96 94.1 76.8 115.2

Manual Integrations

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2/11/2019 9:50:02 AM



#6

Chloroethane

Concen: 22.397 ug/l

RT: 2.71 min Scan# 291

Delta R.T. 0.00 min

Lab File: VN053689.D

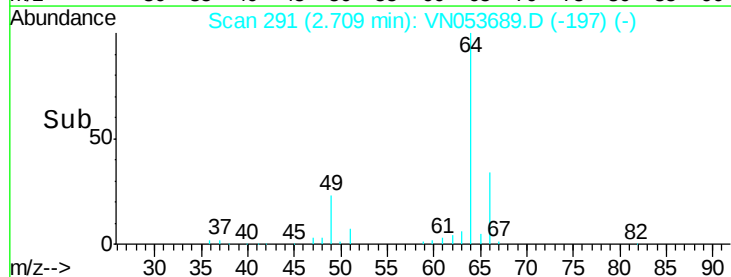
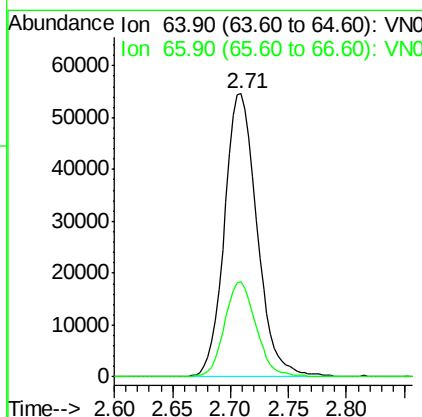
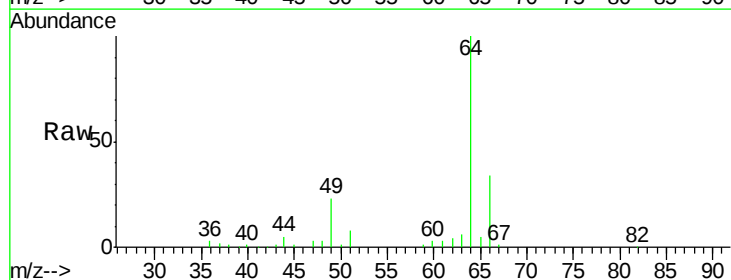
Acq: 8 Feb 2019 18:38

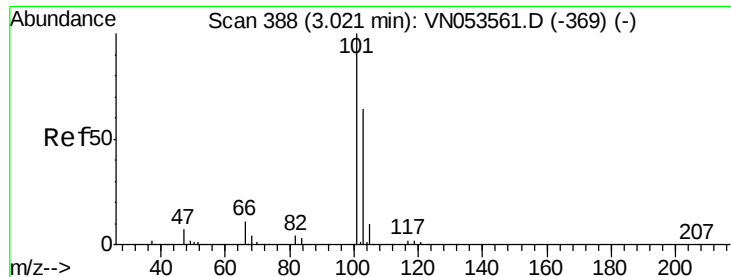
Tgt Ion: 64 Resp: 107040

Ion Ratio Lower Upper

64 100

66 33.6 25.1 37.7





#7

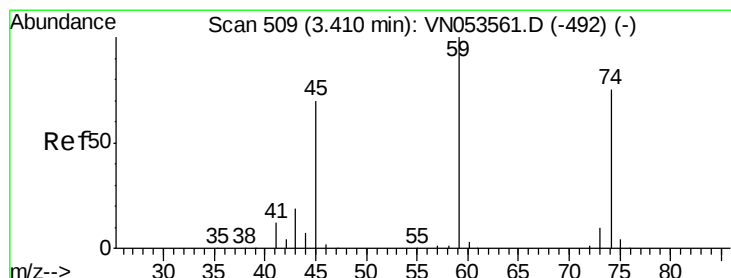
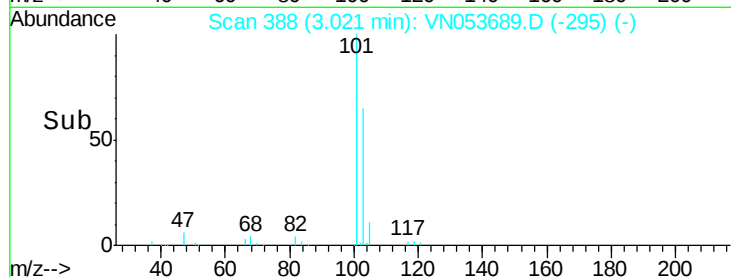
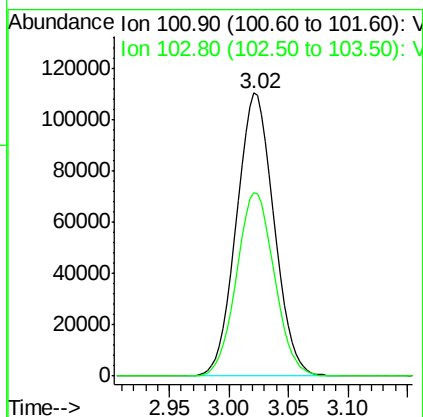
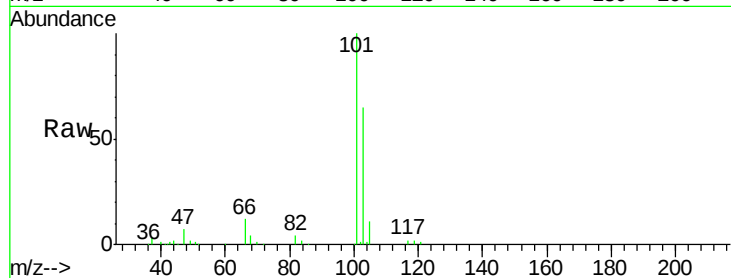
Trichlorofluoromethane
Concen: 21.287 ug/l
RT: 3.02 min Scan# 388
Delta R.T. 0.00 min
Lab File: VN053689.D
Acq: 8 Feb 2019 18:38

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VN0208MBSD01

Tot Ion	Ion	Ratio	Resp	Lower	Upper
101	100		241418		
103	65.0	51.6	77.4		

Manual Integrations
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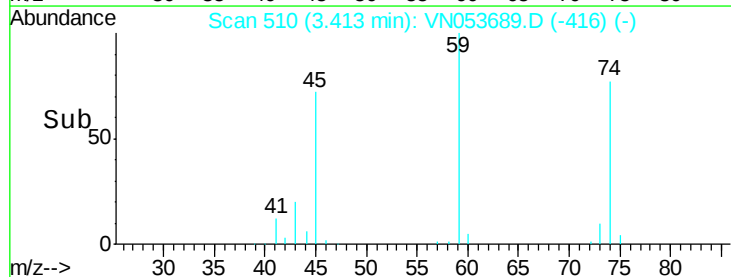
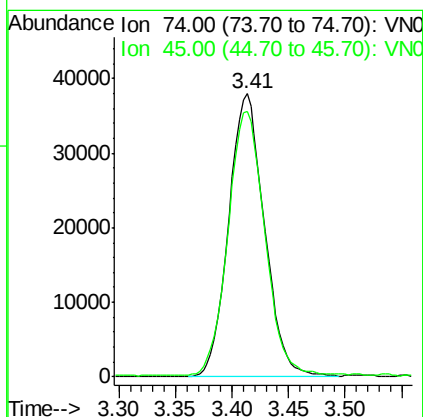
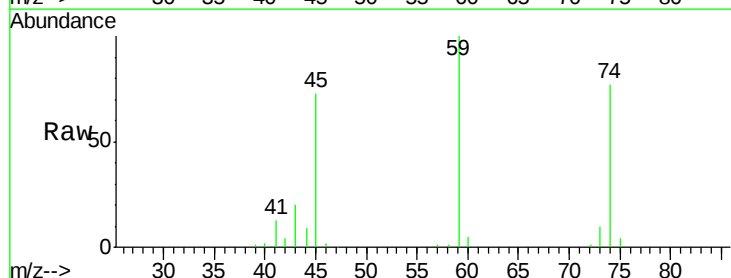
MMDadoda
2/11/2019 9:50:02 AM

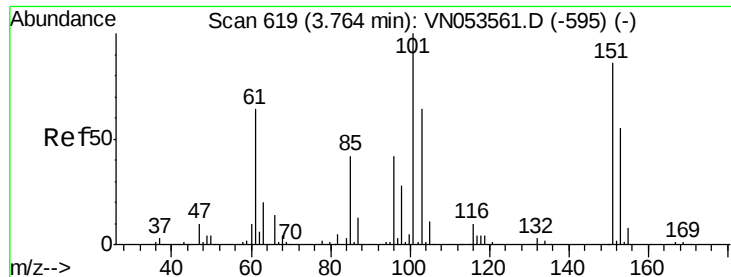


#8

Diethyl Ether
Concen: 20.232 ug/l
RT: 3.41 min Scan# 510
Delta R.T. 0.00 min
Lab File: VN053689.D
Acq: 8 Feb 2019 18:38

Tgt Ion	Ion	Ratio	Resp	Lower	Upper
74	100		83800		
45	95.7	47.9	143.7		





#9

1,1,2-Trichlorotrifluoroethane

Concen: 19.449 ug/l

RT: 3.76 min Scan# 619

Delta R.T. 0.00 min

Lab File: VN053689.D

Acq: 8 Feb 2019 18:38

Instrument :

MSVOA_N

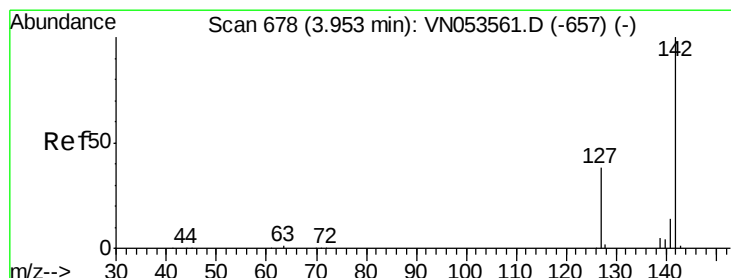
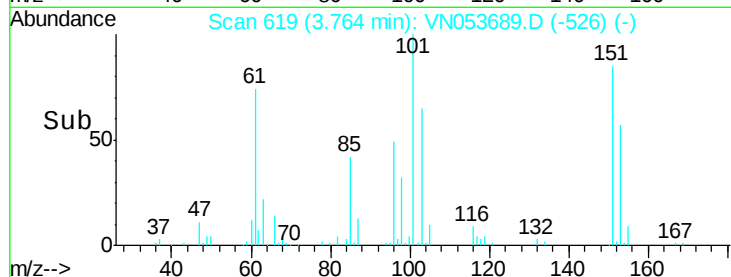
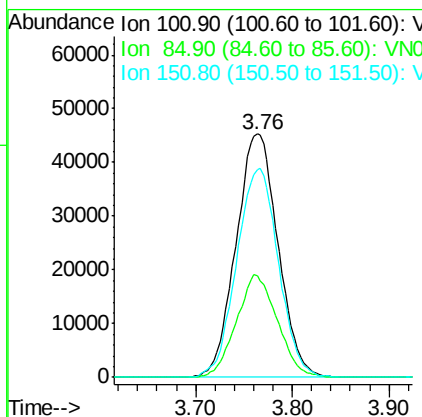
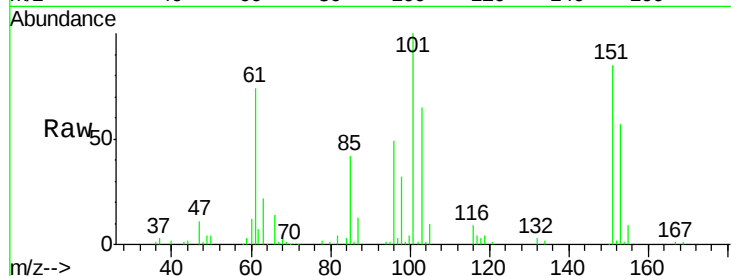
ClientSampleId :

VN0208MBS01

Tot Ion:	101	Resp:	136414
Ion Ratio	Lower	Upper	
101	100		
85	41.1	32.8	49.2
151	85.6	66.9	100.3

Manual Integrations
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MMDadoda
2/11/2019 9:50:02 AM



#10

Methyl Iodide

Concen: 19.177 ug/l

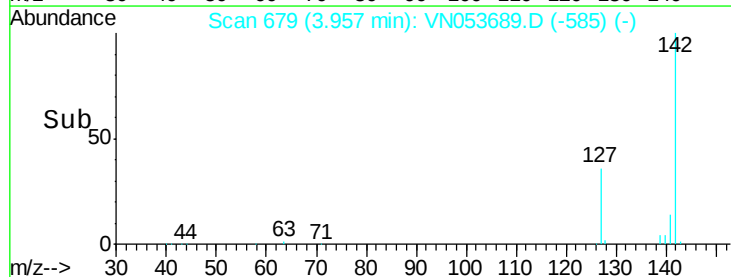
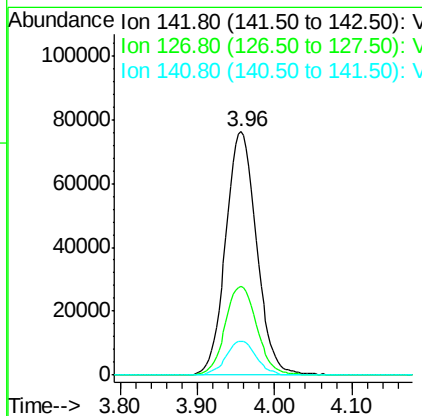
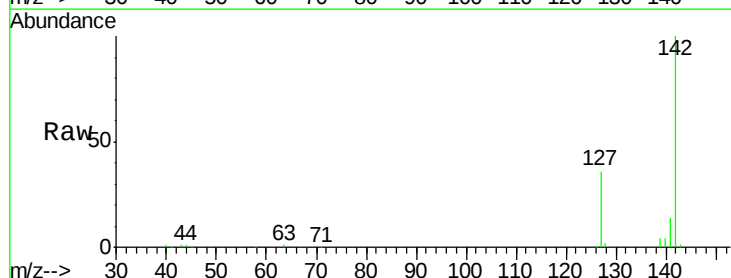
RT: 3.96 min Scan# 679

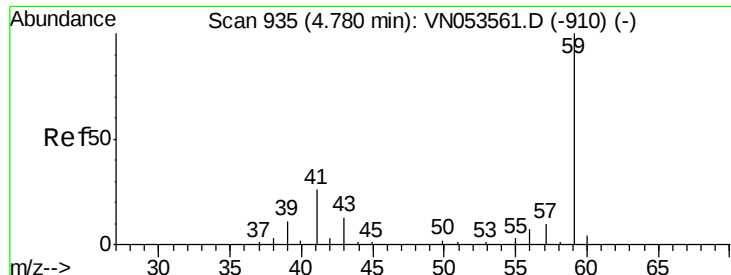
Delta R.T. 0.00 min

Lab File: VN053689.D

Acq: 8 Feb 2019 18:38

Tgt Ion:	142	Resp:	211125
Ion Ratio	Lower	Upper	
142	100		
127	37.5	31.0	46.4
141	13.7	11.1	16.7





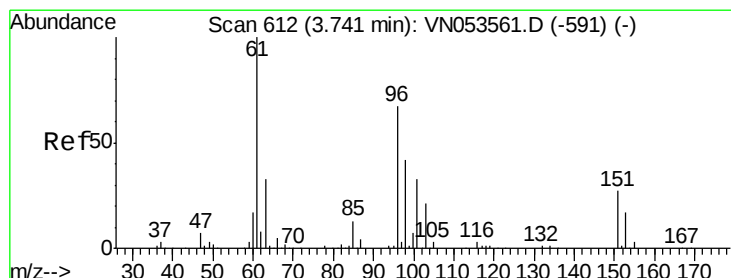
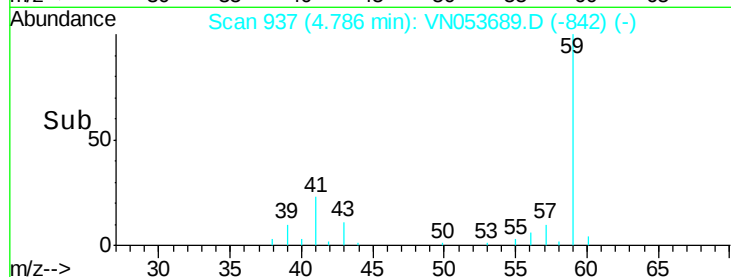
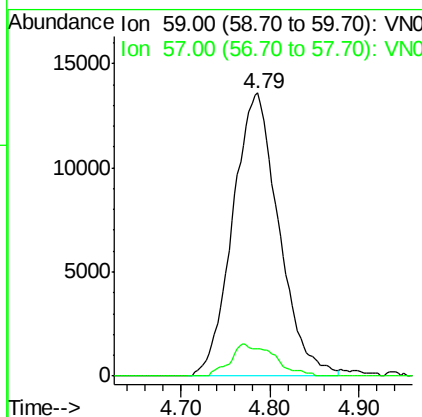
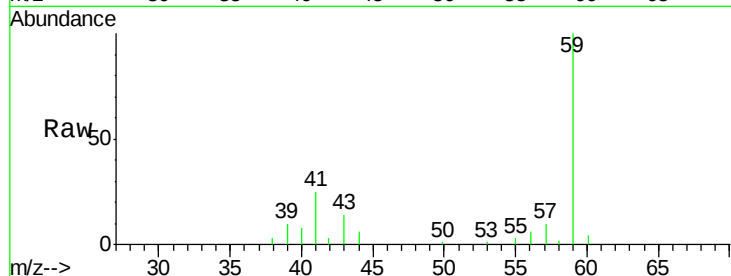
#11
Tert butyl alcohol
Concen: 113.001 ug/l
RT: 4.79 min Scan# 937
Delta R.T. 0.01 min
Lab File: VN053689.D
Acq: 8 Feb 2019 18:38

Instrument :
MSVOA_N
ClientSampleId :
VN0208MBS01

Tot Ion: 59 Resp: 48687
Ion Ratio Lower Upper
59 100
57 5.7 8.2 12.4#

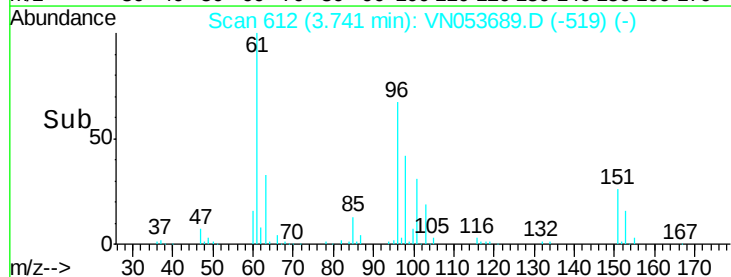
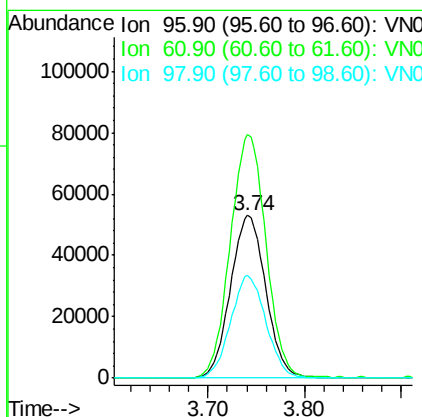
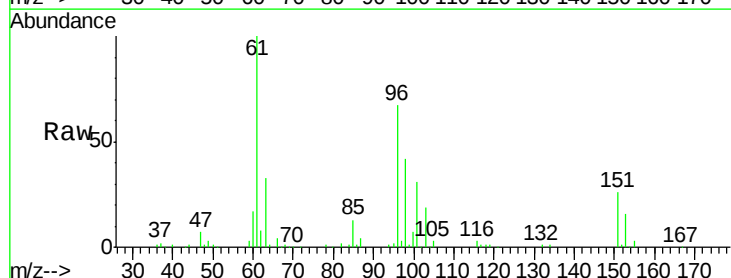
Manual Integrations
APPROVED

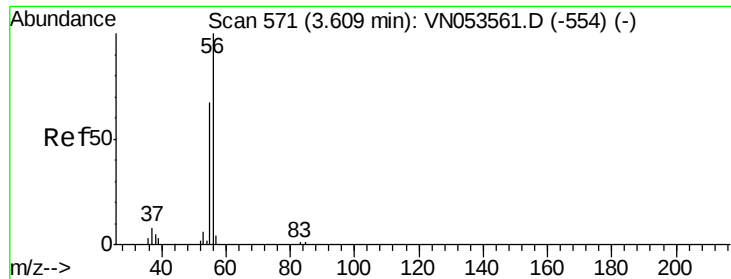
MMDadoda
2/11/2019 9:50:02 AM



#12
1,1-Dichloroethene
Concen: 20.093 ug/l
RT: 3.74 min Scan# 612
Delta R.T. 0.00 min
Lab File: VN053689.D
Acq: 8 Feb 2019 18:38

Tgt Ion: 96 Resp: 135026
Ion Ratio Lower Upper
96 100
61 149.6 122.9 184.3
98 63.0 49.4 74.0





#13

Acrolein

Concen: 88.212 ug/l

RT: 3.61 min Scan# 570

Delta R.T. -0.00 min

Lab File: VN053689.D

Acq: 8 Feb 2019 18:38

Instrument :

MSVOA_N

ClientSampleId :

VN0208MBSD01

Tot Ion: 56 Resp: 20693

Ion Ratio Lower Upper

56 100

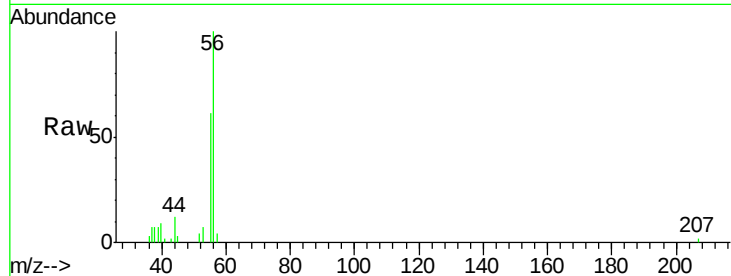
55 67.3 57.4 86.0

Manual Integrations

APPROVED

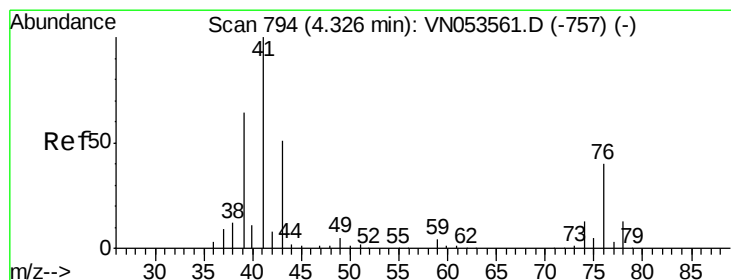
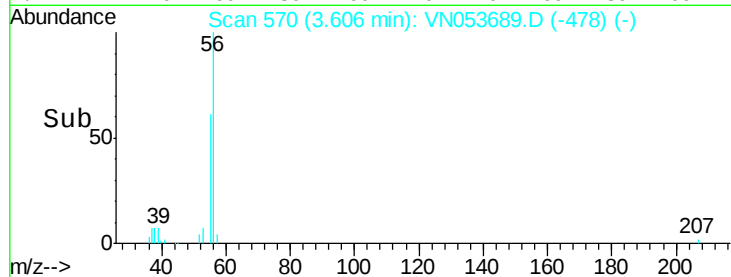
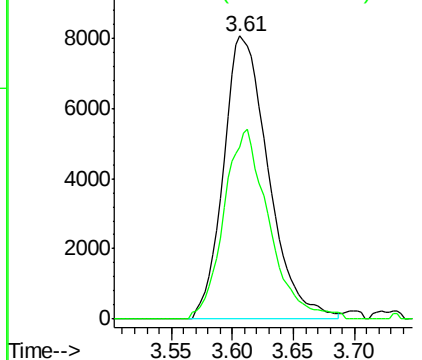
MMDadoda

2/11/2019 9:50:02 AM



Abundance Ion 56.00 (55.70 to 56.70): VN0

Ion 55.00 (54.70 to 55.70): VN0



#14

Allyl chloride

Concen: 19.724 ug/l

RT: 4.33 min Scan# 794

Delta R.T. 0.00 min

Lab File: VN053689.D

Acq: 8 Feb 2019 18:38

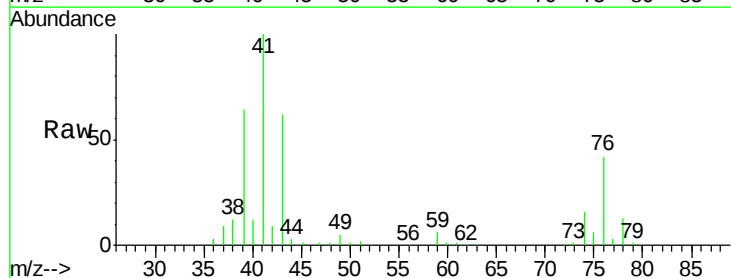
Tgt Ion: 41 Resp: 211038

Ion Ratio Lower Upper

41 100

39 61.0 48.9 73.3

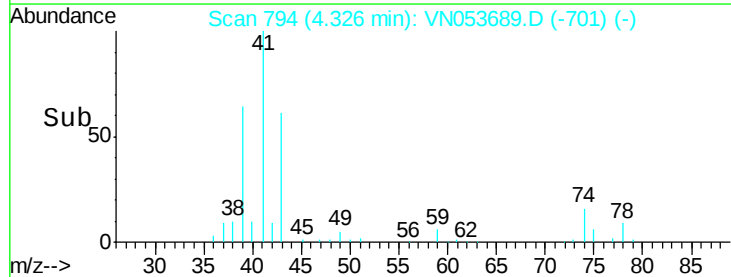
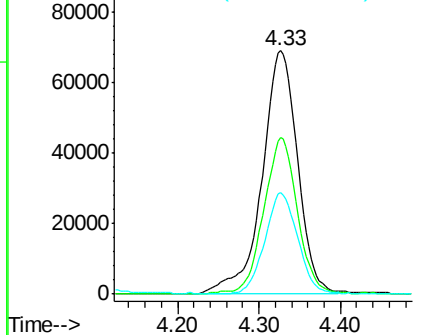
76 38.4 29.4 44.2

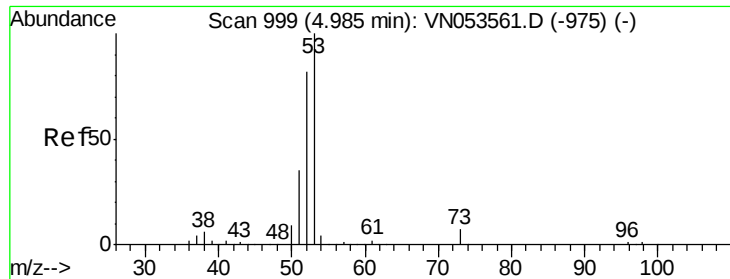


Abundance Ion 41.00 (40.70 to 41.70): VN0

Ion 39.00 (38.70 to 39.70): VN0

Ion 75.90 (75.60 to 76.60): VN0





#15

Acrylonitrile

Concen: 108.632 ug/l

RT: 4.99 min Scan# 1001

Delta R.T. 0.01 min

Lab File: VN053689.D

Acq: 8 Feb 2019 18:38

Instrument :

MSVOA_N

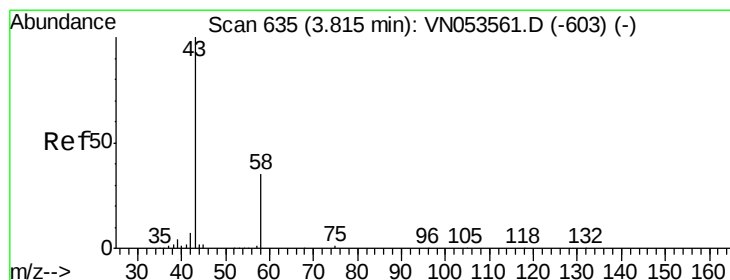
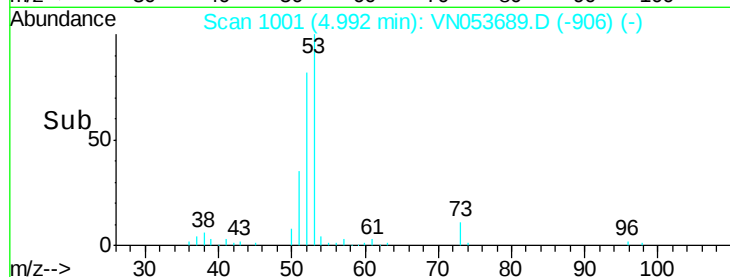
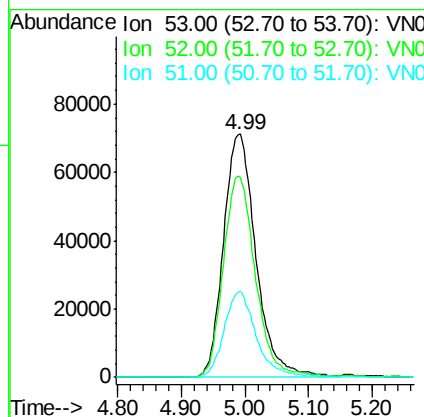
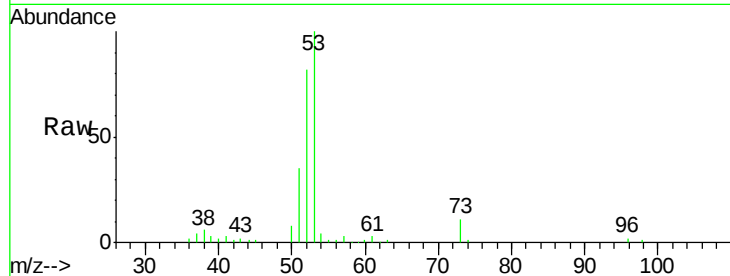
ClientSampleId :

VN0208MBS01

Tot Ion:	53	Resp:	252674
Ion	Ratio	Lower	Upper
53	100		
52	81.7	66.0	99.0
51	34.5	28.3	42.5

Manual Integrations
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2/11/2019 9:50:02 AM



#16

Acetone

Concen: 89.829 ug/l

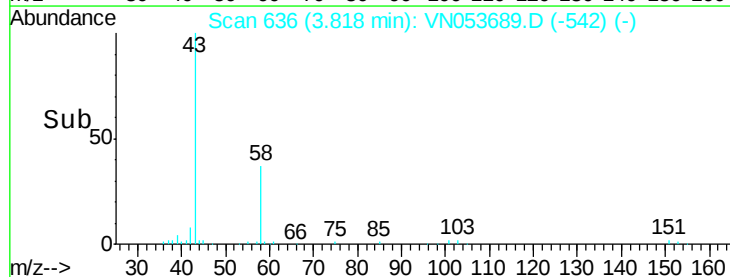
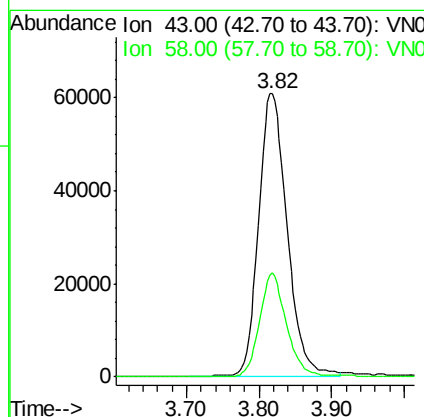
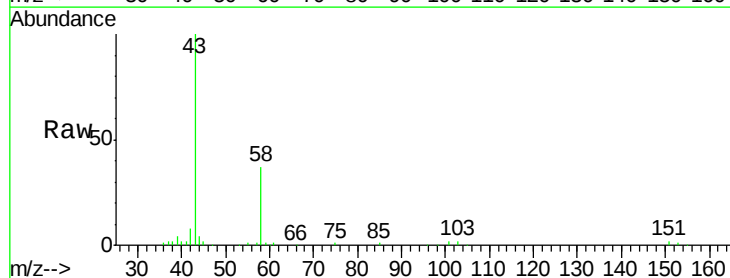
RT: 3.82 min Scan# 636

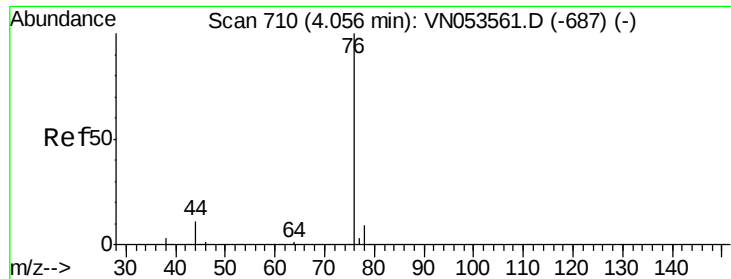
Delta R.T. 0.00 min

Lab File: VN053689.D

Acq: 8 Feb 2019 18:38

Tgt Ion:	43	Resp:	167743
Ion	Ratio	Lower	Upper
43	100		
58	36.9	27.1	40.7





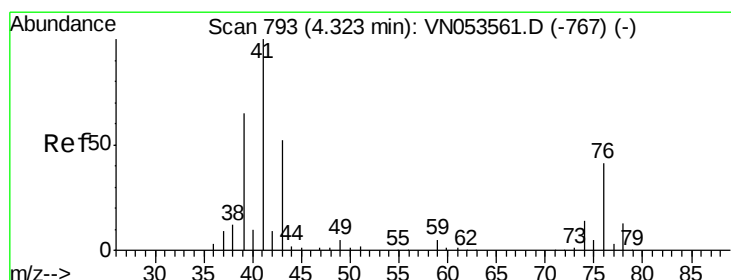
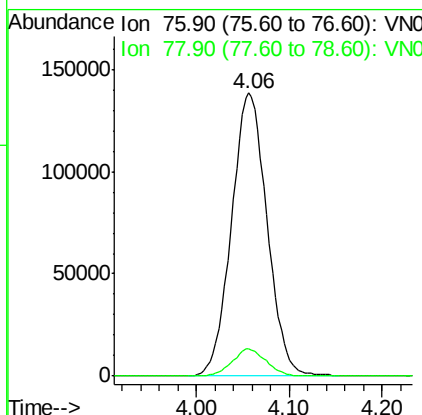
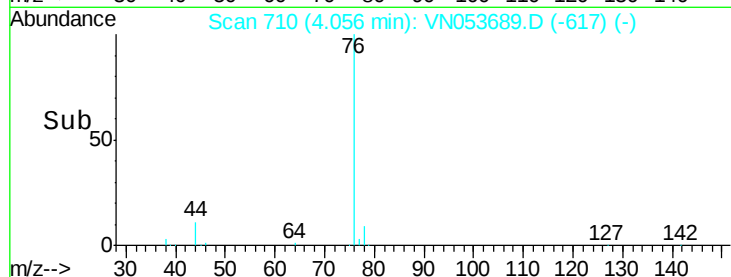
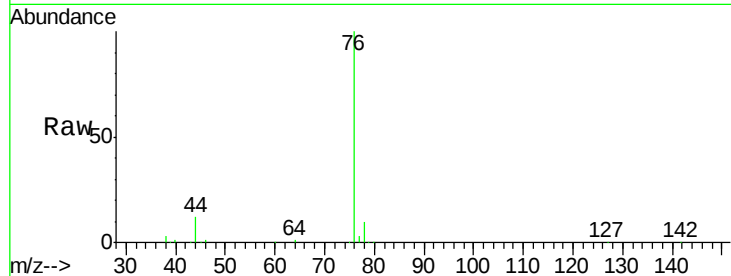
#17
Carbon Disulfide
Concen: 17.571 ug/l
RT: 4.06 min Scan# 710
Delta R.T. 0.00 min
Lab File: VN053689.D
Acq: 8 Feb 2019 18:38

Instrument :
MSVOA_N
ClientSampleId :
VN0208MBSD01

Tot Ion	Ratio	Lower	Upper
76	100		
78	9.6	7.3	10.9

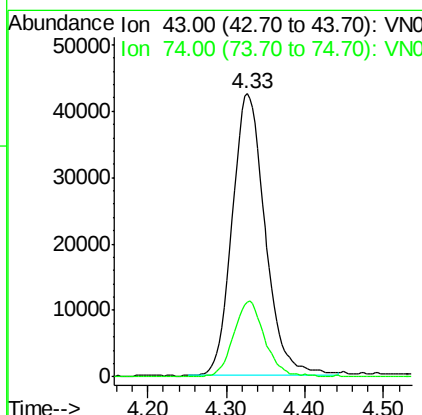
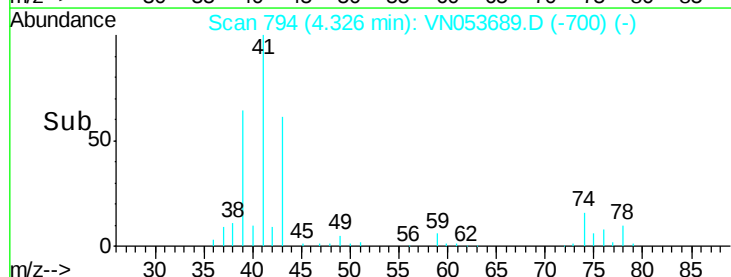
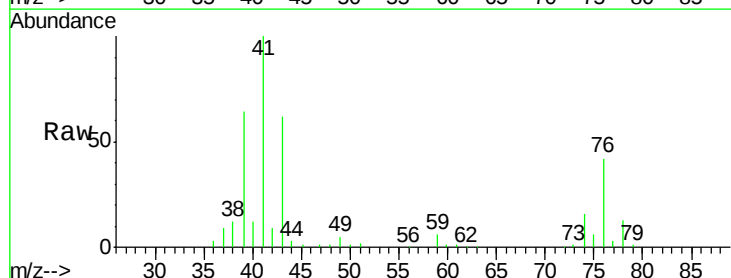
Manual Integrations
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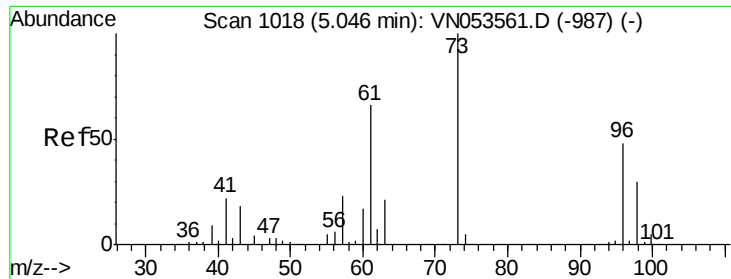
MMDadoda
2/11/2019 9:50:02 AM



#18
Methyl Acetate
Concen: 22.608 ug/l
RT: 4.33 min Scan# 794
Delta R.T. 0.00 min
Lab File: VN053689.D
Acq: 8 Feb 2019 18:38

Tgt Ion	Ratio	Lower	Upper
43	100		
74	25.1	19.4	29.2





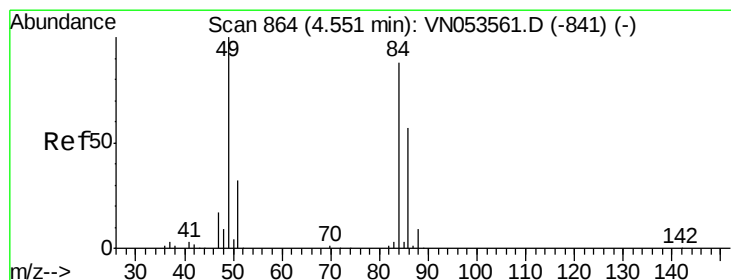
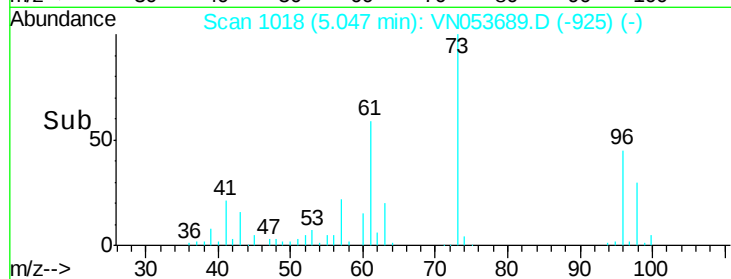
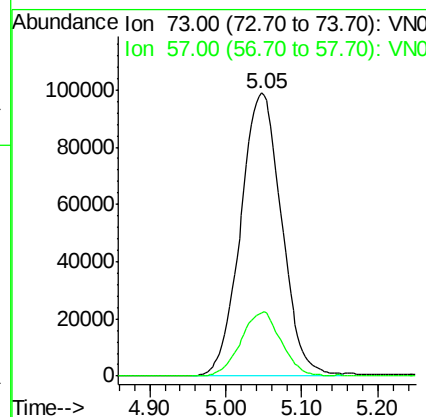
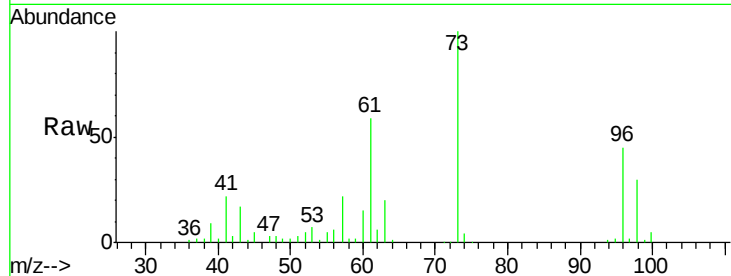
#19
Methvl tert-butvl Ether
Concen: 21.764 ug/l
RT: 5.05 min Scan# 1018
Delta R.T. 0.00 min
Lab File: VN053689.D
Acq: 8 Feb 2019 18:38

Instrument :
MSVOA_N
ClientSampleId :
VN0208MBS01

Tot Ion: 73 Resp: 370762
Ion Ratio Lower Upper
73 100
57 22.5 18.3 27.5

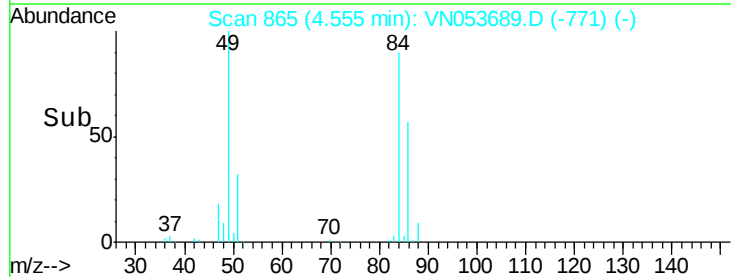
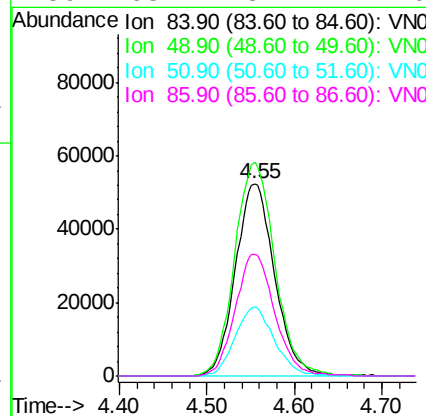
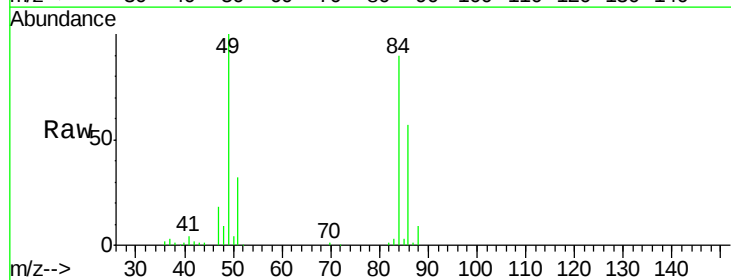
Manual Integrations
APPROVED

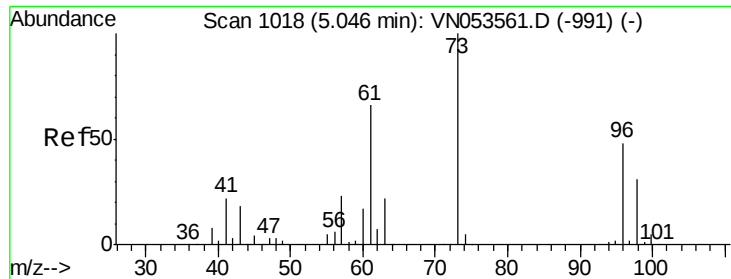
MMDadoda
2/11/2019 9:50:02 AM



#20
Methylene Chloride
Concen: 20.822 ug/l
RT: 4.55 min Scan# 865
Delta R.T. 0.00 min
Lab File: VN053689.D
Acq: 8 Feb 2019 18:38

Tgt Ion: 84 Resp: 163128
Ion Ratio Lower Upper
84 100
49 110.7 94.3 141.5
51 35.9 29.4 44.2
86 63.4 51.4 77.0





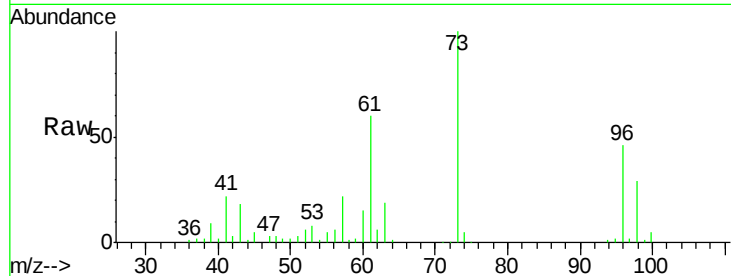
#21
trans-1,2-Dichloroethene
Concen: 19.578 ug/l
RT: 5.04 min Scan# 1017
Delta R.T. -0.00 min
Lab File: VN053689.D
Acq: 8 Feb 2019 18:38

Instrument :
MSVOA_N
ClientSampleId :
VN0208MBSD01

Tot Ion	Ratio	Lower	Upper
96	100		
61	130.3	110.1	165.1
98	64.4	50.0	75.0

Manual Integrations
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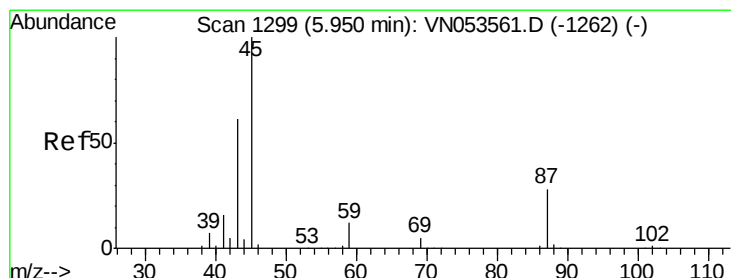
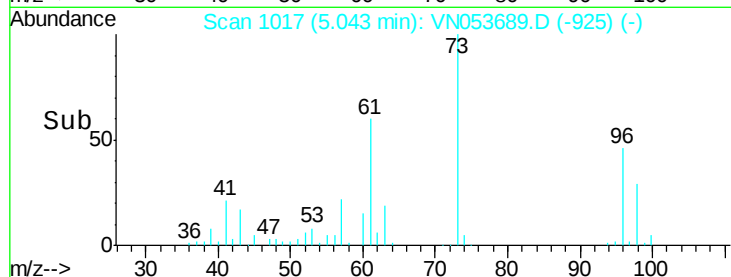
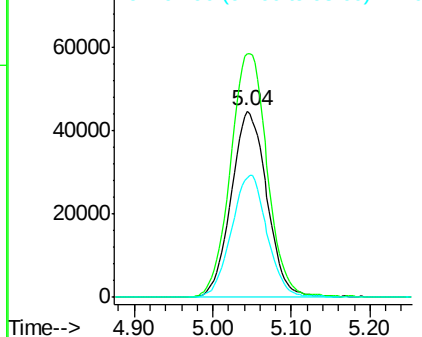


Abundance

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: 20.920 ug/l
RT: 5.95 min Scan# 1299
Delta R.T. 0.00 min
Lab File: VN053689.D
Acq: 8 Feb 2019 18:38

Tgt Ion	Ratio	Lower	Upper
45	100		
43	63.3	44.2	66.4
87	28.0	22.7	34.1
59	12.0	9.4	14.2

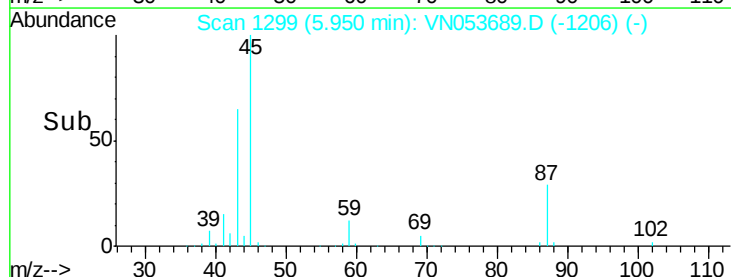
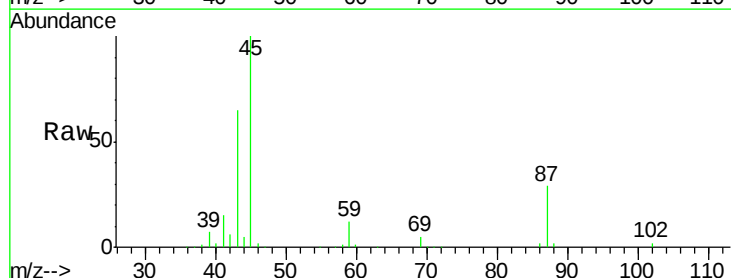
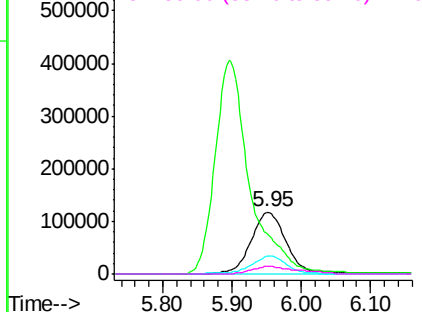
Abundance

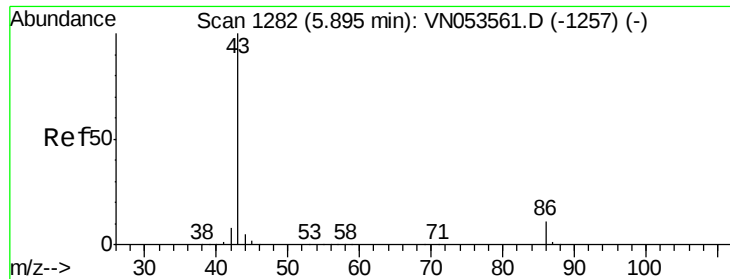
Ion 45.00 (44.70 to 45.70): VNC

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: 103.318 ug/l

RT: 5.90 min Scan# 1282

Delta R.T. 0.00 min

Lab File: VN053689.D

Acq: 8 Feb 2019 18:38

Instrument :

MSVOA_N

ClientSampleId :

VN0208MBSD01

Tot Ion: 43 Resp: 1417038

Ion Ratio Lower Upper

43 100

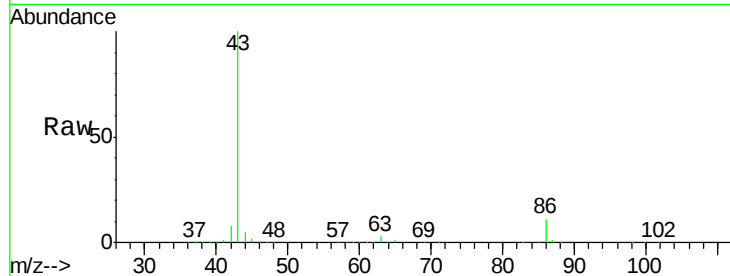
86 11.1 8.4 12.6

Manual Integrations

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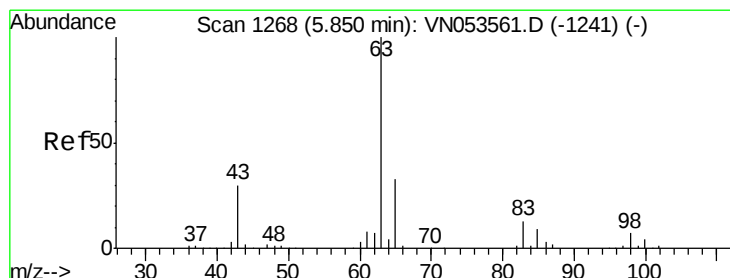
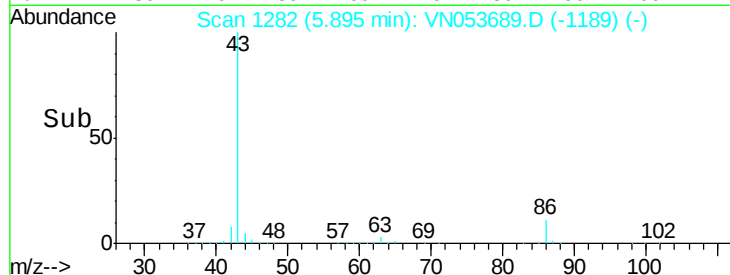
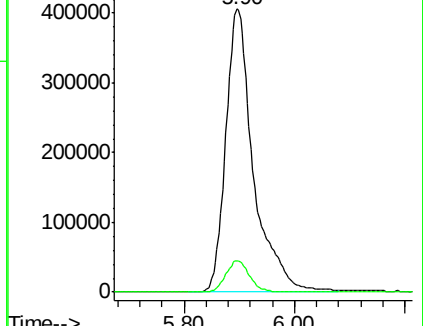
MMDadoda

2/11/2019 9:50:02 AM



Abundance Ion 43.00 (42.70 to 43.70): VN0

Ion 86.00 (85.70 to 86.70): VN0



#24

1,1-Dichloroethane

Concen: 20.455 ug/l

RT: 5.85 min Scan# 1268

Delta R.T. 0.00 min

Lab File: VN053689.D

Acq: 8 Feb 2019 18:38

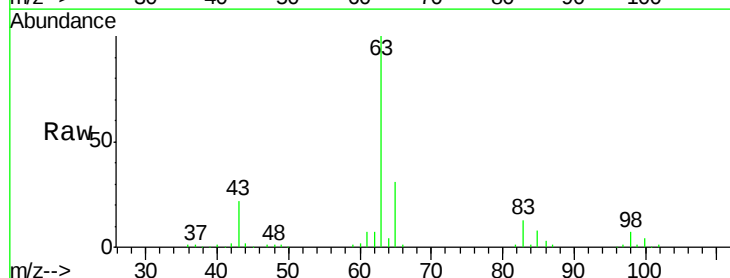
Tgt Ion: 63 Resp: 270495

Ion Ratio Lower Upper

63 100

98 6.7 3.3 9.9

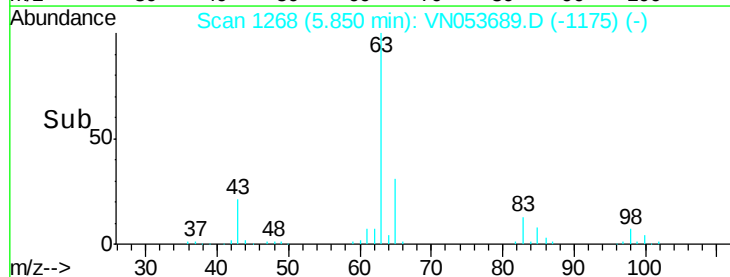
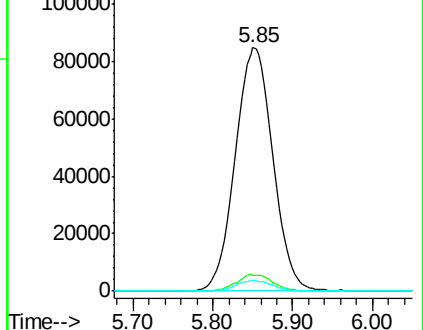
100 4.4 2.1 6.5

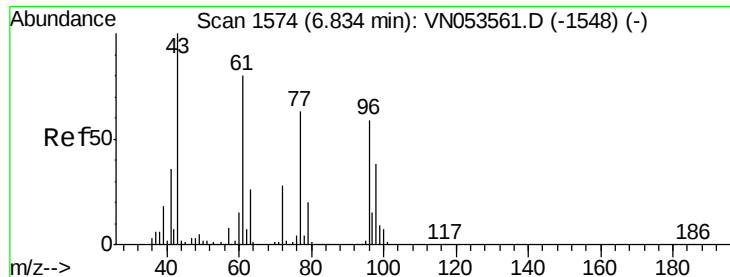


Abundance Ion 62.90 (62.60 to 63.60): VN0

Ion 97.90 (97.60 to 98.60): VN0

Ion 99.90 (99.60 to 100.60): VN0





#25

2-Butanone

Concen: 98.738 ug/l

RT: 6.84 min Scan# 1575

Delta R.T. 0.00 min

Lab File: VN053689.D

Acq: 8 Feb 2019 18:38

Instrument :

MSVOA_N

ClientSampleId :

VN0208MBSD01

Tot Ion: 43 Resp: 262967

Ion Ratio Lower Upper

43 100

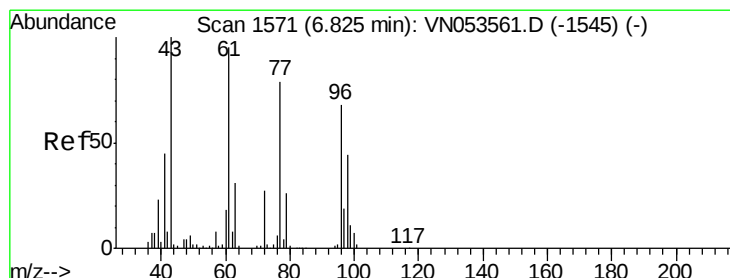
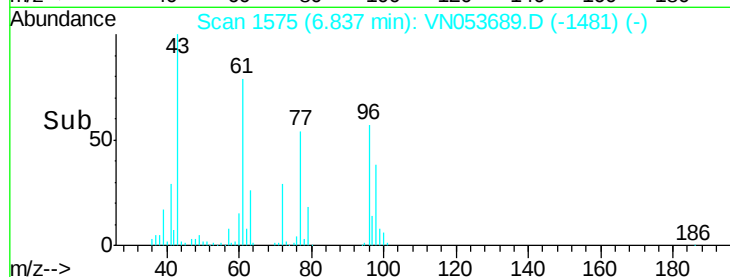
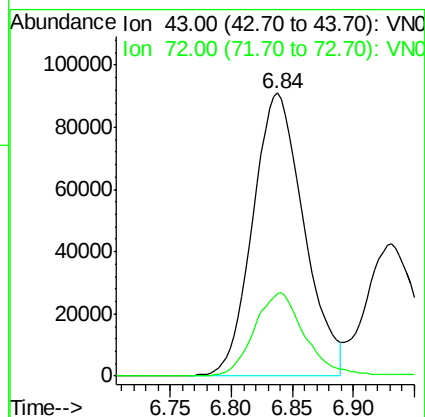
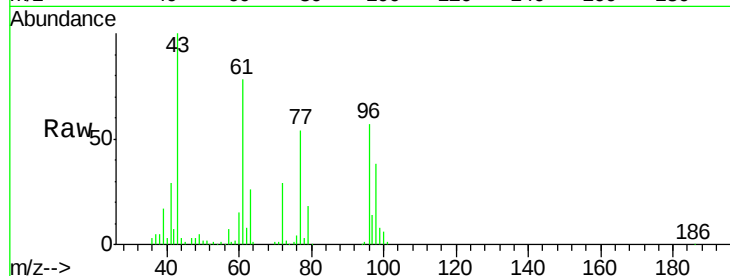
72 29.1 22.0 33.0

Manual Integrations

APPROVED

MMDadoda

2/11/2019 9:50:02 AM



#26

2,2-Dichloropropane

Concen: 17.750 ug/l

RT: 6.83 min Scan# 1572

Delta R.T. 0.00 min

Lab File: VN053689.D

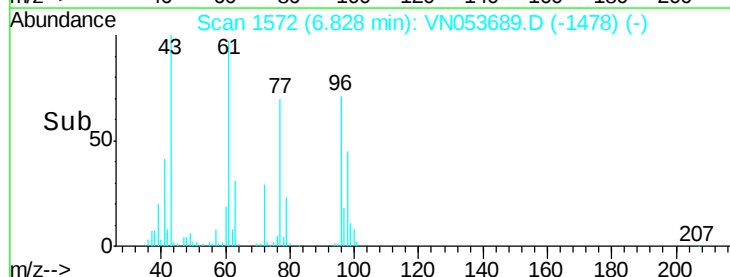
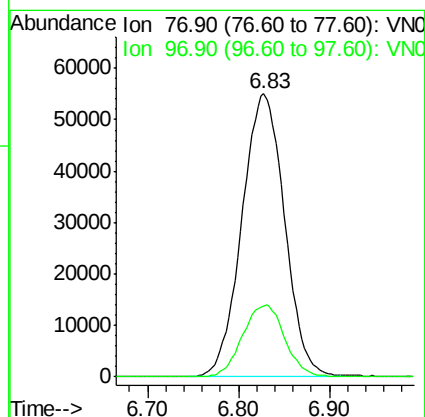
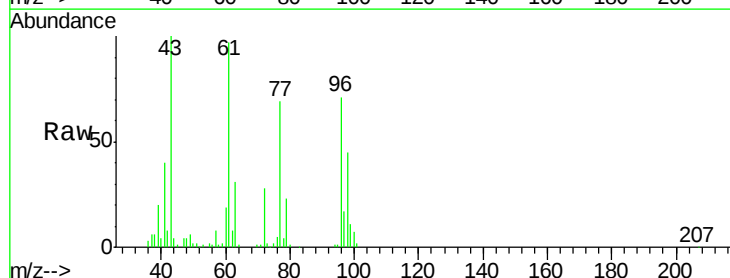
Acq: 8 Feb 2019 18:38

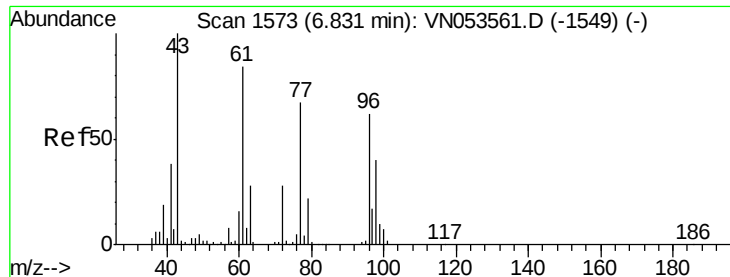
Tgt Ion: 77 Resp: 179174

Ion Ratio Lower Upper

77 100

97 25.1 12.2 36.6





#27

cis-1,2-Dichloroethene

Concen: 20.300 ug/l

RT: 6.83 min Scan# 1573

Delta R.T. 0.00 min

Lab File: VN053689.D

Acq: 8 Feb 2019 18:38

Instrument :

MSVOA_N

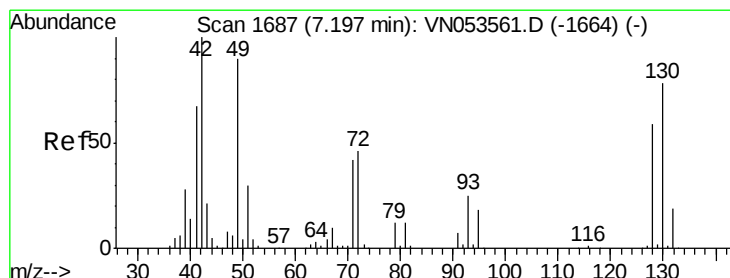
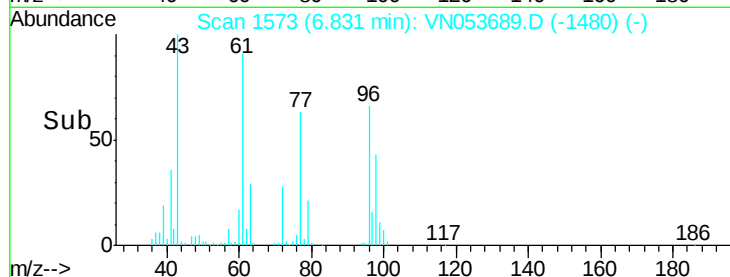
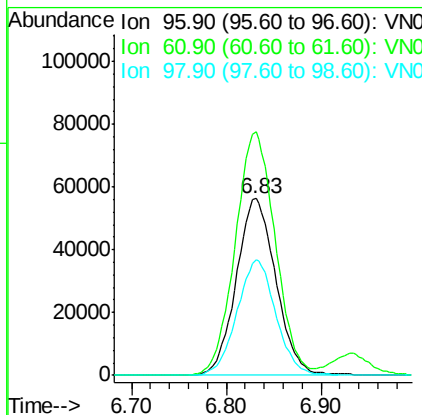
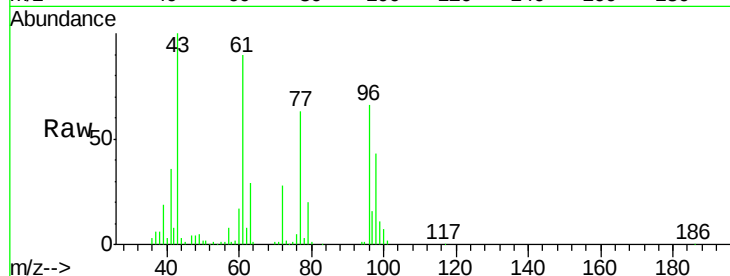
ClientSampleId :

VN0208MBS01

Tot Ion:	96	Resp:	163656
Ion Ratio	Lower	Upper	
96	100		
61	139.2	0.0	283.8
98	64.0	0.0	129.2

Manual Integrations
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#28

Bromochloromethane

Concen: 20.576 ug/l

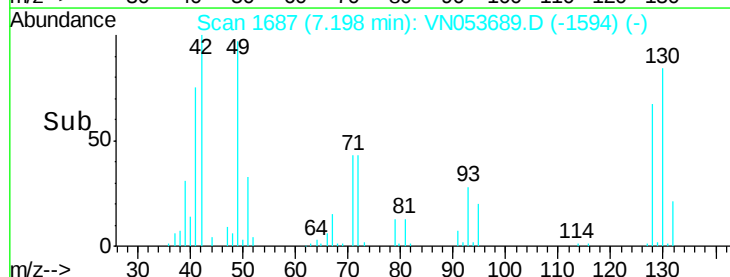
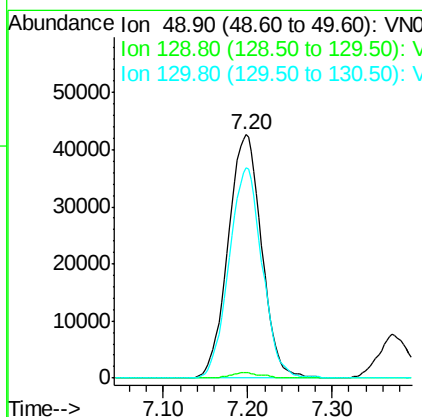
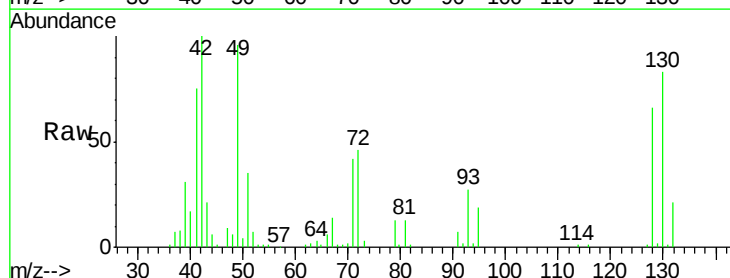
RT: 7.20 min Scan# 1687

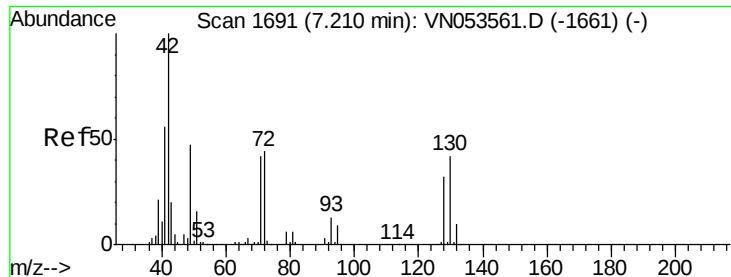
Delta R.T. 0.00 min

Lab File: VN053689.D

Acq: 8 Feb 2019 18:38

Tgt Ion:	49	Resp:	118078
Ion Ratio	Lower	Upper	
49	100		
129	2.0	0.0	4.0
130	85.2	66.3	99.5





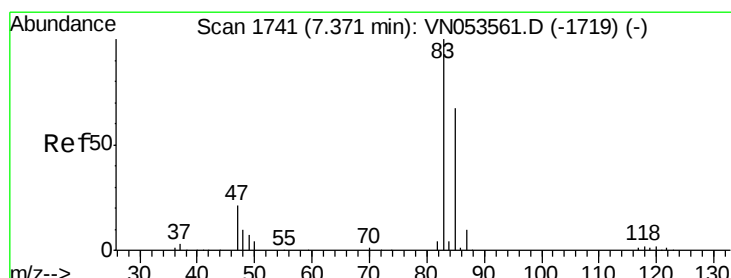
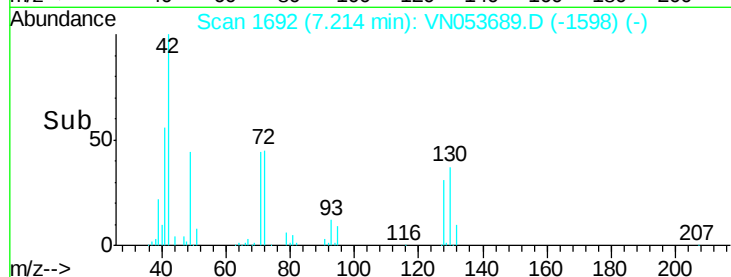
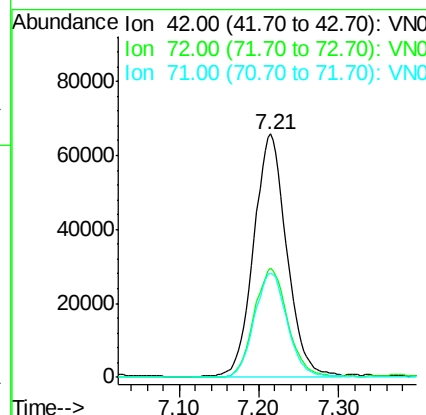
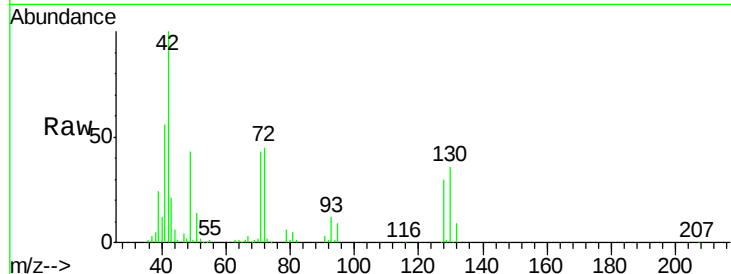
#29
Tetrahydrofuran
Concen: 107.861 ug/l
RT: 7.21 min Scan# 1692
Delta R.T. 0.00 min
Lab File: VN053689.D
Acq: 8 Feb 2019 18:38

Instrument :
MSVOA_N
ClientSampleId :
VN0208MBSD01

Tot Ion	Ratio	Lower	Upper
42	100		
72	45.7	35.2	52.8
71	43.1	33.0	49.4

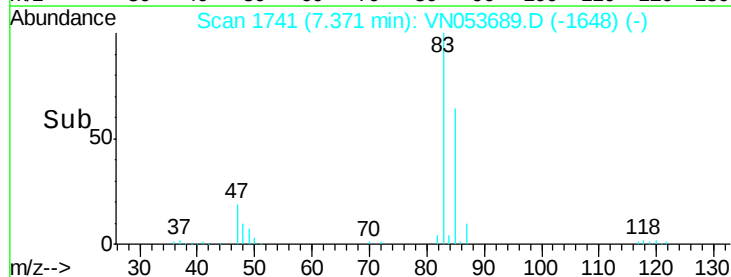
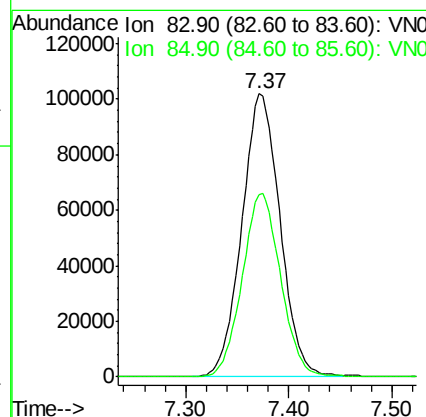
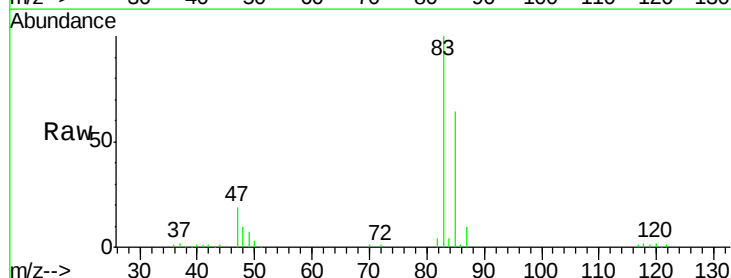
Manual Integrations
APPROVED

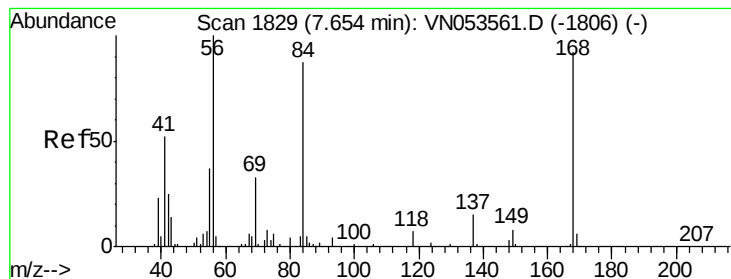
MMDadoda
2/11/2019 9:50:02 AM



#30
Chloroform
Concen: 20.046 ug/l
RT: 7.37 min Scan# 1741
Delta R.T. 0.00 min
Lab File: VN053689.D
Acq: 8 Feb 2019 18:38

Tgt Ion	Ratio	Lower	Upper
83	100		
85	64.5	52.2	78.2





#31

Cvclohexane

Concen: 18.883 ug/l

RT: 7.65 min Scan# 1829

Delta R.T. 0.00 min

Lab File: VN053689.D

Acq: 8 Feb 2019 18:38

Instrument :

MSVOA_N

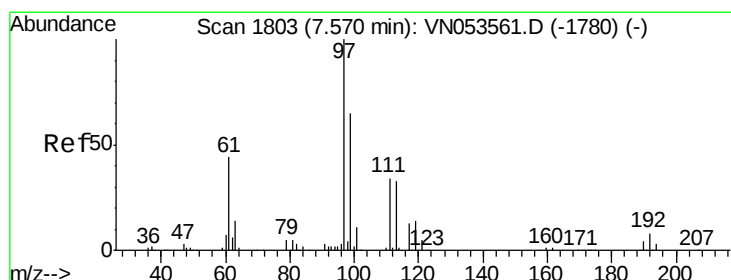
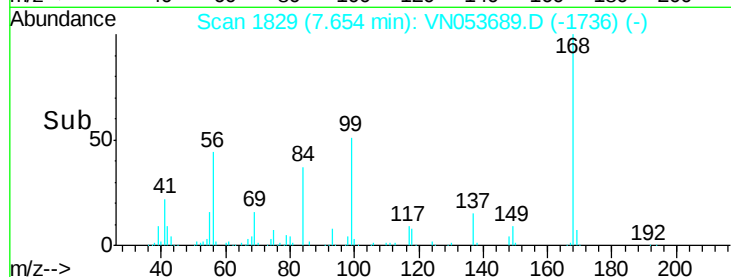
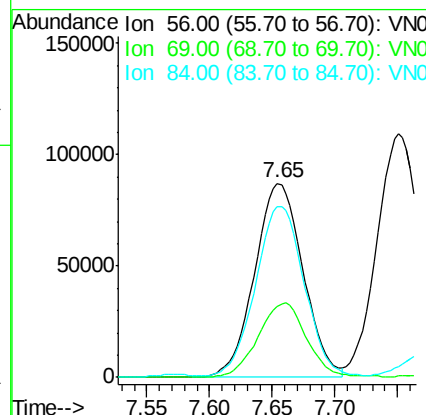
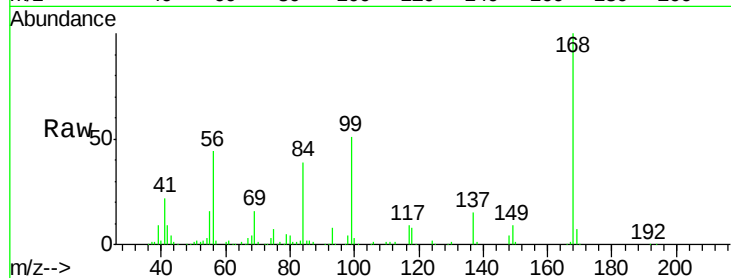
ClientSampleId :

VN0208MBS01

Tot Ion:	56	Resp:	233788
Ion Ratio	Lower	Upper	
56	100		
69	36.6	26.4	39.6
84	87.1	67.9	101.9

Manual Integrations
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#32

1,1,1-Trichloroethane

Concen: 20.114 ug/l

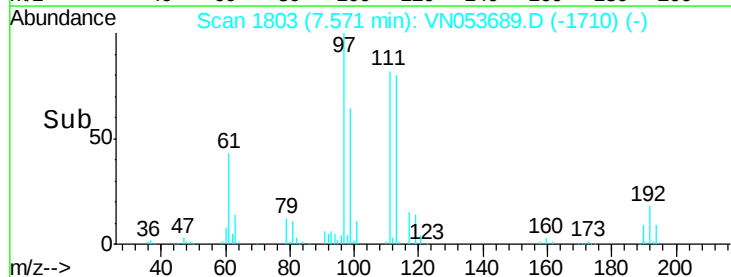
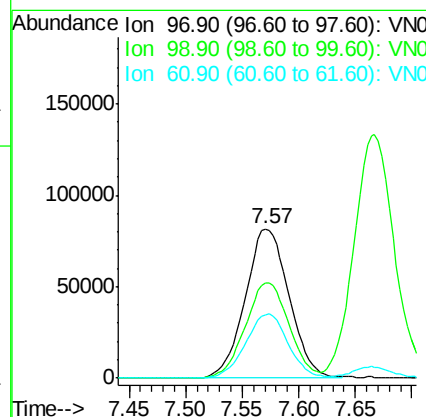
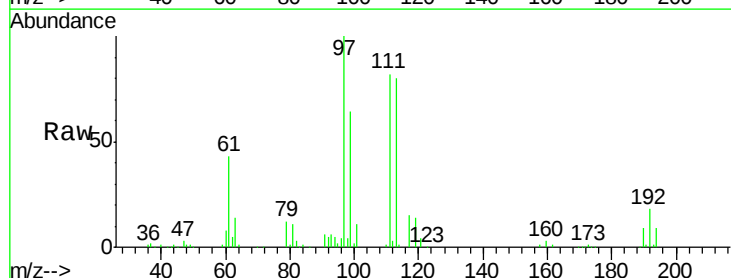
RT: 7.57 min Scan# 1803

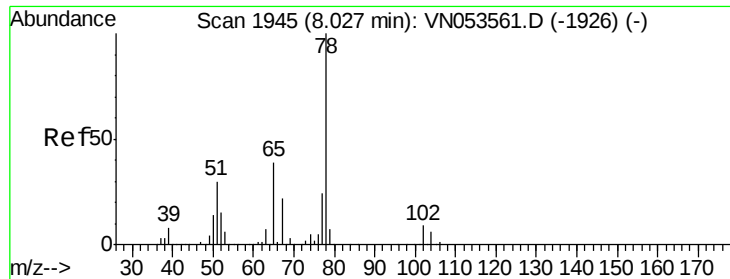
Delta R.T. 0.00 min

Lab File: VN053689.D

Acq: 8 Feb 2019 18:38

Tgt Ion:	97	Resp:	219430
Ion Ratio	Lower	Upper	
97	100		
99	64.0	52.0	78.0
61	42.0	34.4	51.6





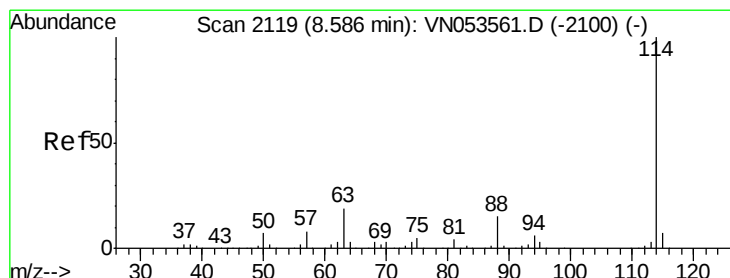
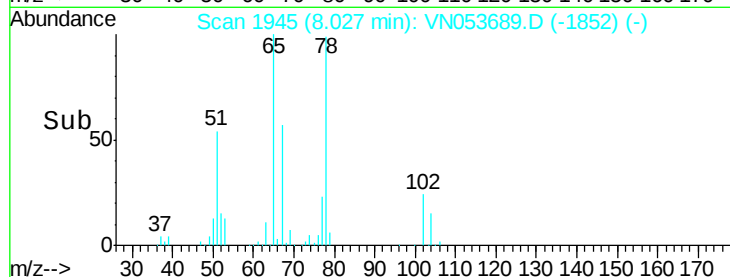
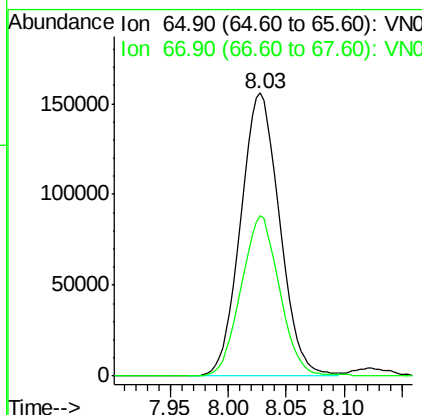
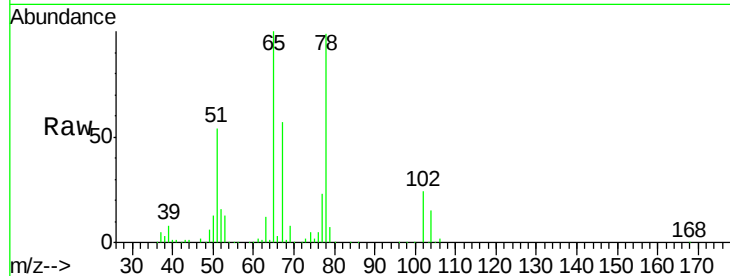
#33
 1,2-Dichloroethane-d4
 Concen: 50.300 ug/l
 RT: 8.03 min Scan# 1945
 Delta R.T. 0.00 min
 Lab File: VN053689.D
 Acq: 8 Feb 2019 18:38

Instrument :
 MSVOA_N
 ClientSampleId :
 VN0208MBSD01

Tot Ion	Ratio	Resp	Lower	Upper
65	100			
67	55.9	0.0		111.2

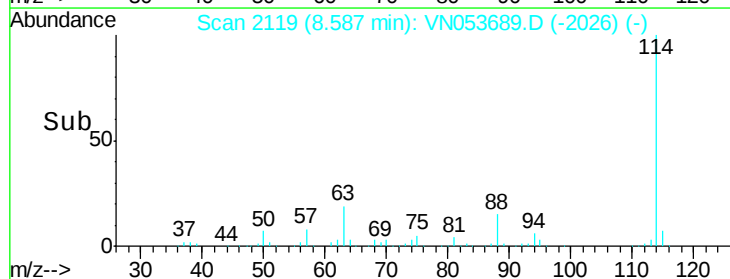
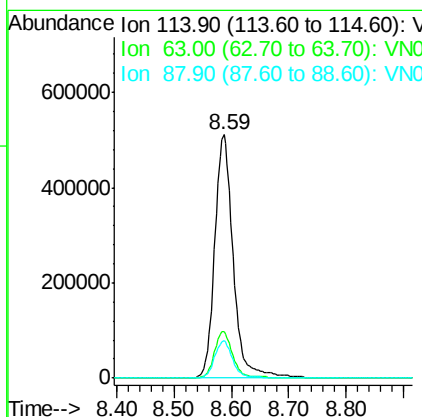
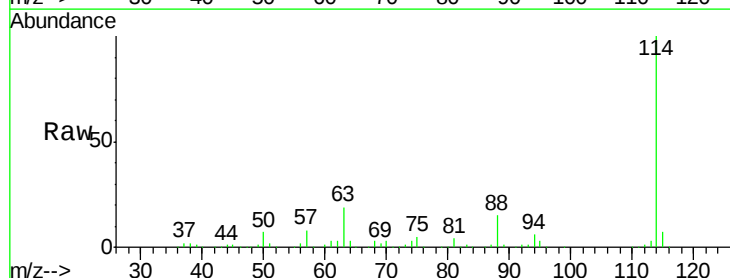
Manual Integrations
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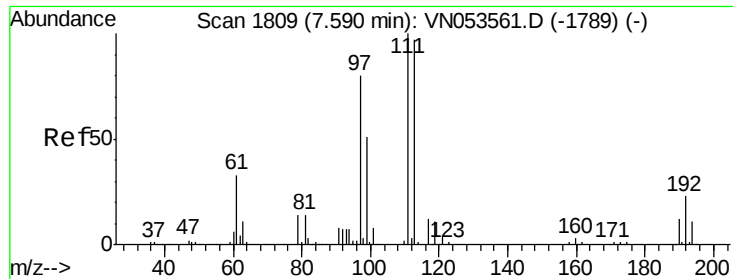
MMDadoda
 2/11/2019 9:50:02 AM



#34
 1,4-Difluorobenzene
 Concen: 50.000 ug/l
 RT: 8.59 min Scan# 2119
 Delta R.T. 0.00 min
 Lab File: VN053689.D
 Acq: 8 Feb 2019 18:38

Tgt Ion	Ratio	Resp	Lower	Upper
114	100			
63	18.9	0.0		38.6
88	15.4	0.0		30.4





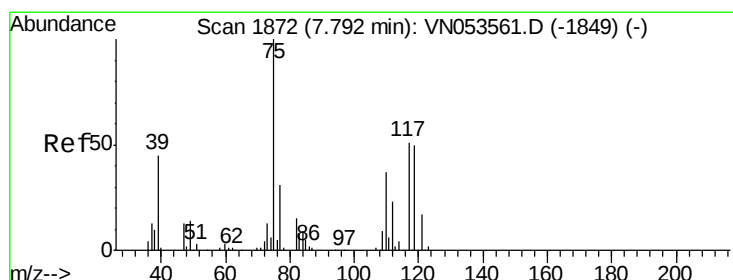
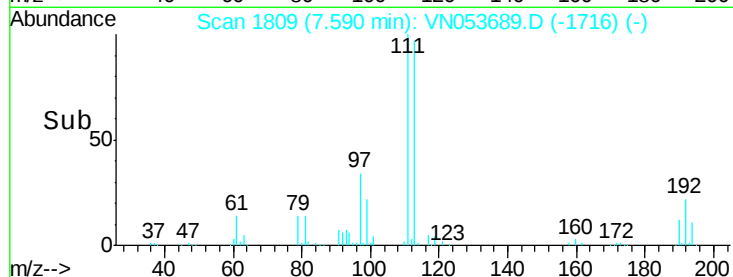
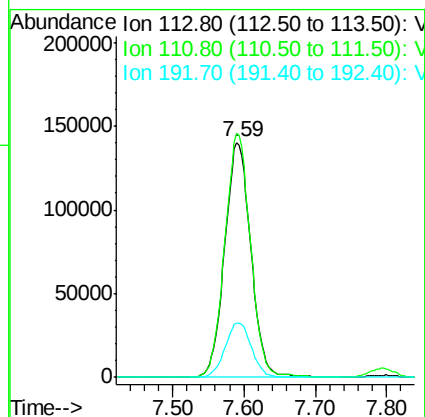
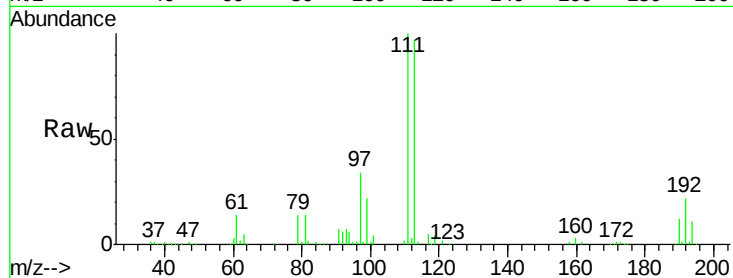
#35
Dibromofluoromethane
Concen: 48.974 ug/l
RT: 7.59 min Scan# 1809
Delta R.T. 0.00 min
Lab File: VN053689.D
Acq: 8 Feb 2019 18:38

Instrument :
MSVOA_N
ClientSampleId :
VN0208MBSD01

Tot Ion	Ratio	Resp	Lower	Upper
113	100	357499		
111	101.3	81.1	121.7	
192	23.2	18.2	27.2	

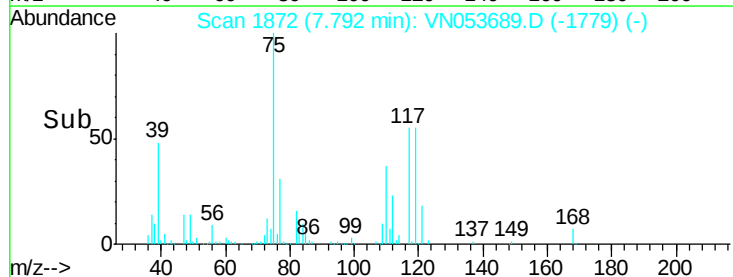
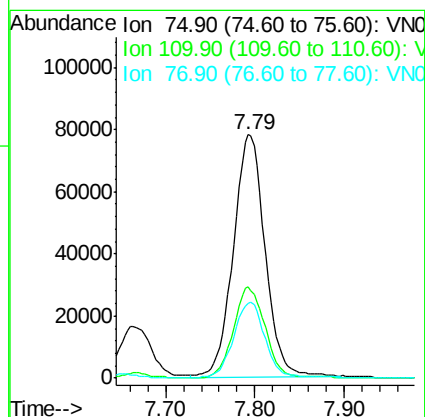
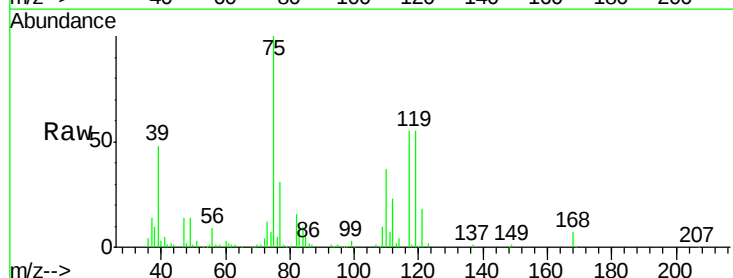
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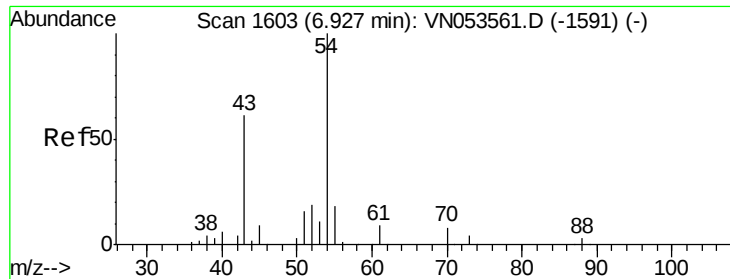
MMDadoda
2/11/2019 9:50:02 AM



#36
1,1-Dichloropropene
Concen: 18.407 ug/l
RT: 7.79 min Scan# 1872
Delta R.T. 0.00 min
Lab File: VN053689.D
Acq: 8 Feb 2019 18:38

Tgt Ion	Ratio	Resp	Lower	Upper
75	100	191696		
110	37.8	18.1	54.3	
77	31.6	25.1	37.7	





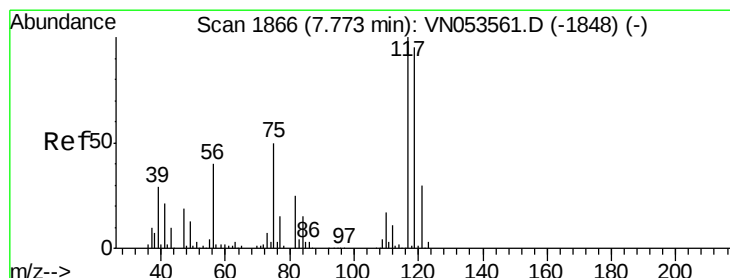
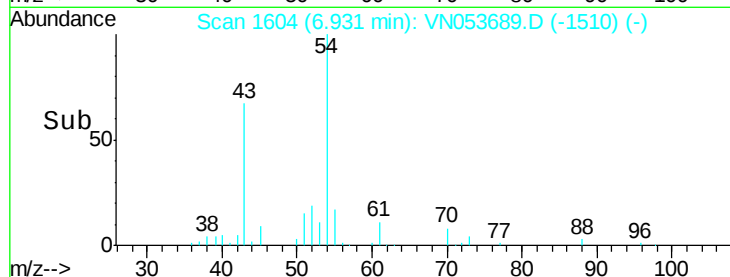
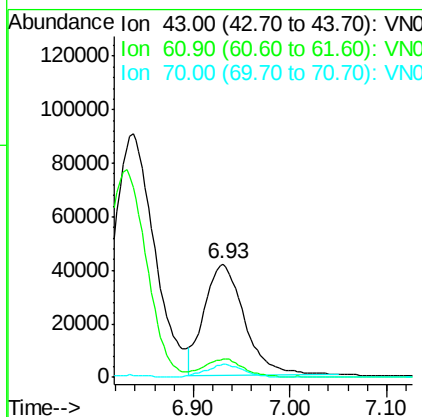
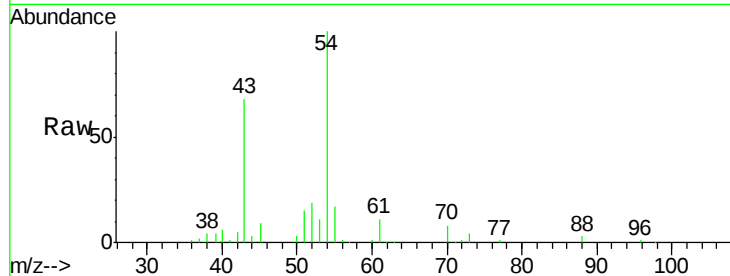
#37
Ethyl Acetate
Concen: 20.854 ug/l
RT: 6.93 min Scan# 1604
Delta R.T. 0.00 min
Lab File: VN053689.D
Acq: 8 Feb 2019 18:38

Instrument :
MSVOA_N
ClientSampleId :
VN0208MBSD01

Tot Ion	Ratio	Lower	Upper
43	100		
61	15.2	11.8	17.6
70	11.3	8.6	12.8

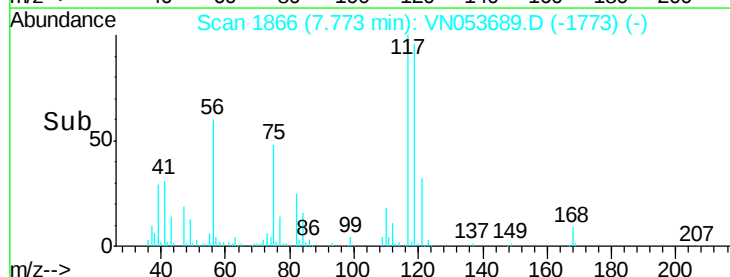
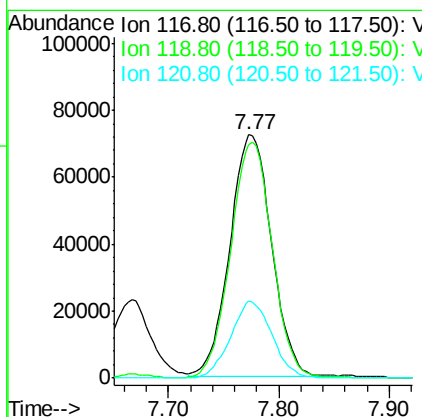
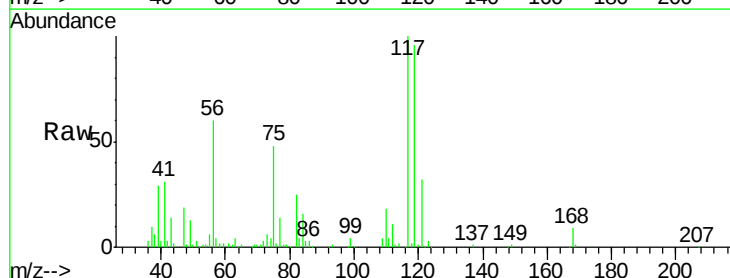
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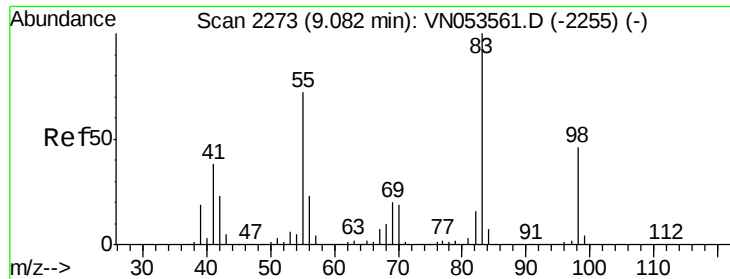
MMDadoda
2/11/2019 9:50:02 AM



#38
Carbon Tetrachloride
Concen: 18.002 ug/l
RT: 7.77 min Scan# 1866
Delta R.T. 0.00 min
Lab File: VN053689.D
Acq: 8 Feb 2019 18:38

Tgt Ion	Ratio	Lower	Upper
117	100		
119	96.4	77.2	115.8
121	32.0	24.6	37.0





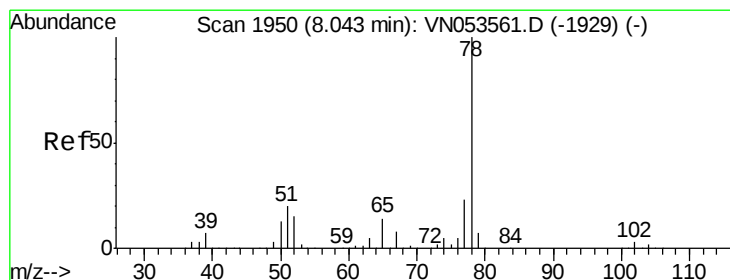
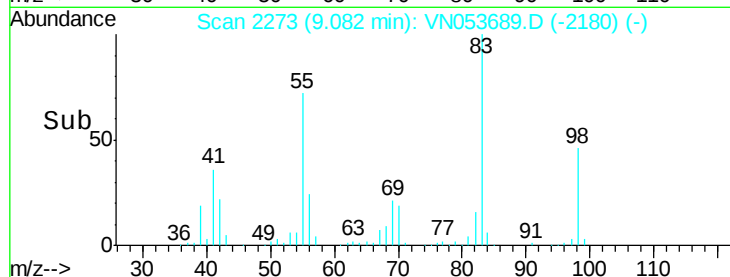
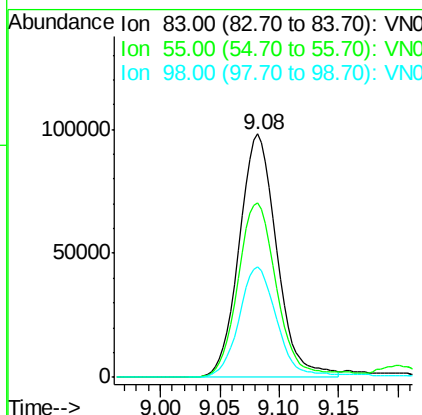
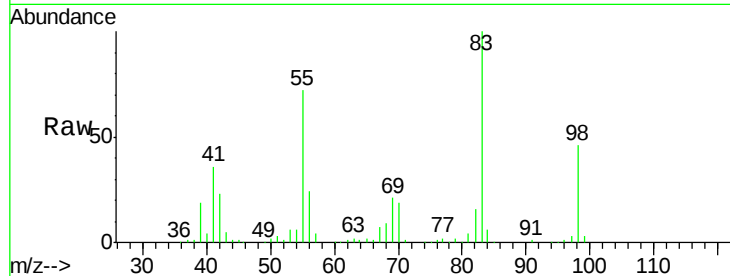
#39
Methvlcvclohexane
Concen: 17.454 ug/l
RT: 9.08 min Scan# 2273
Delta R.T. 0.00 min
Lab File: VN053689.D
Acq: 8 Feb 2019 18:38

Instrument :
MSVOA_N
ClientSampleId :
VN0208MBS01

Tot Ion	Ratio	Resp	Lower	Upper
83	100	215652		
55	71.9		60.1	90.1
98	45.6		36.6	55.0

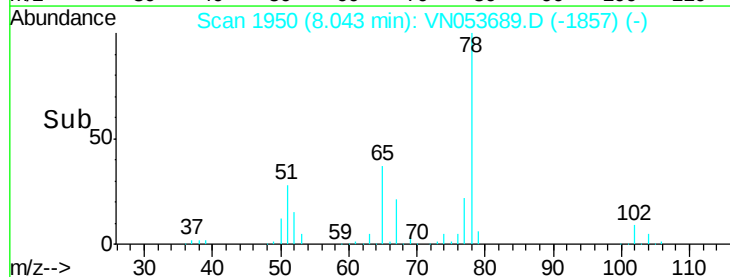
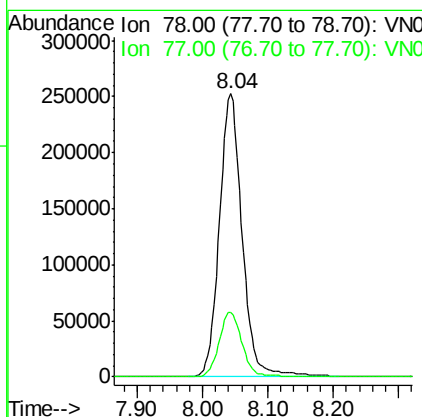
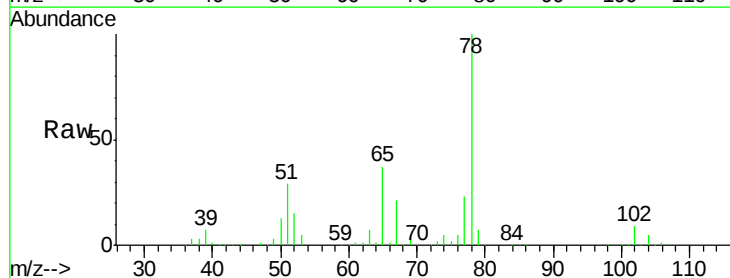
Manual Integrations
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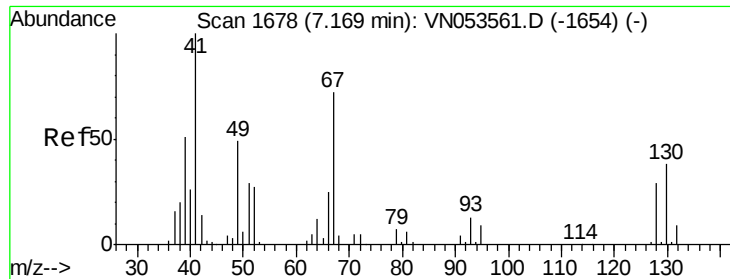
MMDadoda
2/11/2019 9:50:02 AM



#40
Benzene
Concen: 19.076 ug/l
RT: 8.04 min Scan# 1950
Delta R.T. 0.00 min
Lab File: VN053689.D
Acq: 8 Feb 2019 18:38

Tgt Ion	Ratio	Resp	Lower	Upper
78	100	612619		
77	22.7		18.8	28.2





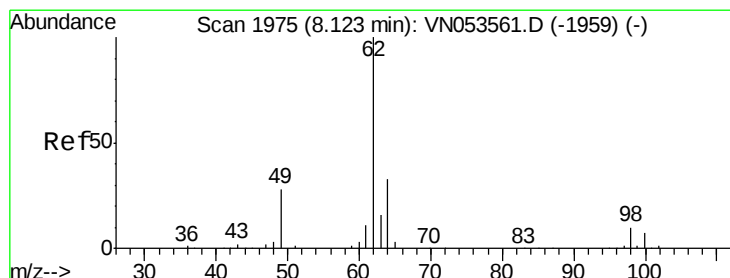
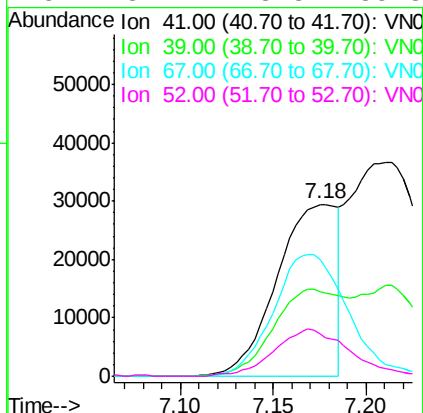
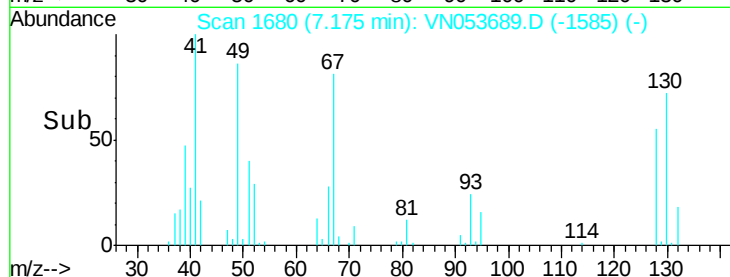
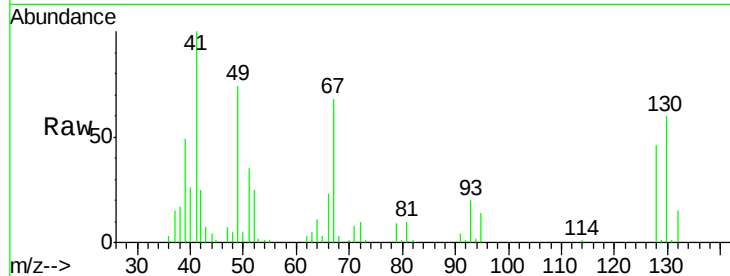
#41
Methacrylonitrile
Concen: 20.480 ug/l
RT: 7.18 min Scan# 1680
Delta R.T. 0.01 min
Lab File: VN053689.D
Acq: 8 Feb 2019 18:38

Instrument :
MSVOA_N
ClientSampleId :
VN0208MBSD01

Tot Ion	Ion	Ratio	Lower	Upper
41	100			
39	59.9	46.8	70.2	
67	88.5	63.0	94.6	
52	34.4	23.8	35.8	

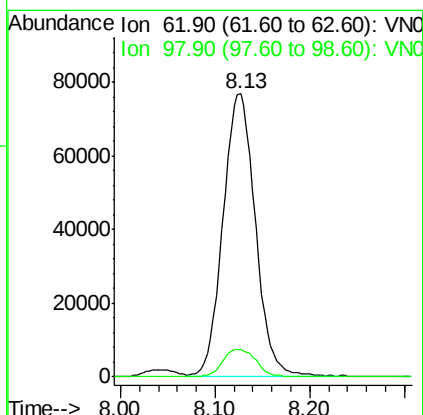
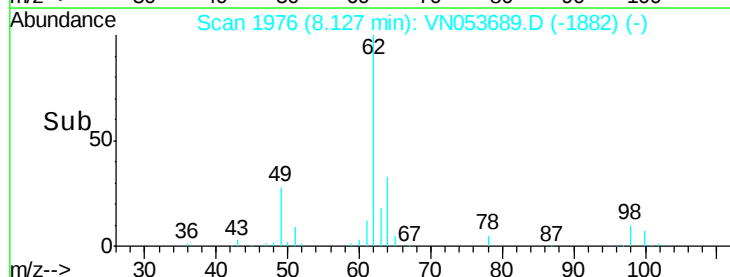
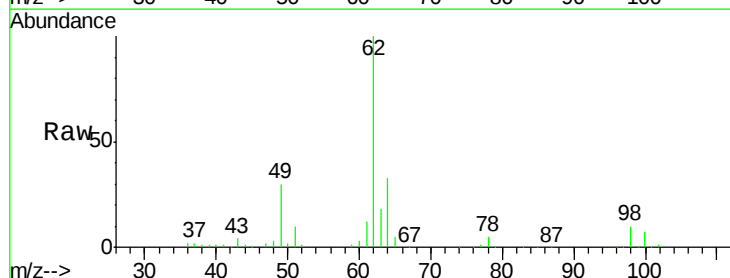
Manual Integrations
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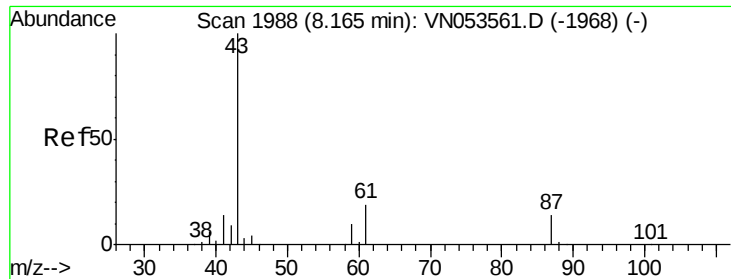
MMDadoda
2/11/2019 9:50:02 AM



#42
1,2-Dichloroethane
Concen: 19.079 ug/l
RT: 8.13 min Scan# 1976
Delta R.T. 0.00 min
Lab File: VN053689.D
Acq: 8 Feb 2019 18:38

Tgt Ion	Ion	Ratio	Lower	Upper
62	100			
98	10.1	0.0	19.6	





#43

Isopropyl Acetate

Concen: 20.161 ug/l

RT: 8.17 min Scan# 1988

Delta R.T. 0.00 min

Lab File: VN053689.D

Acq: 8 Feb 2019 18:38

Instrument :

MSVOA_N

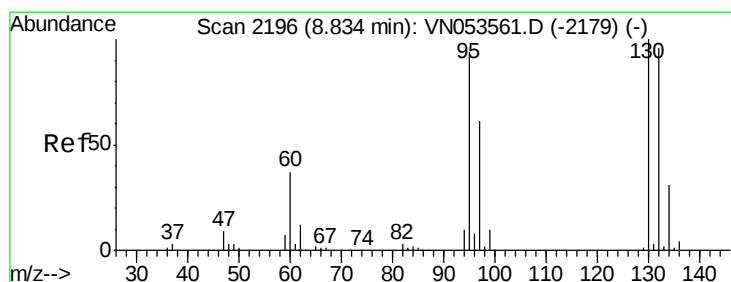
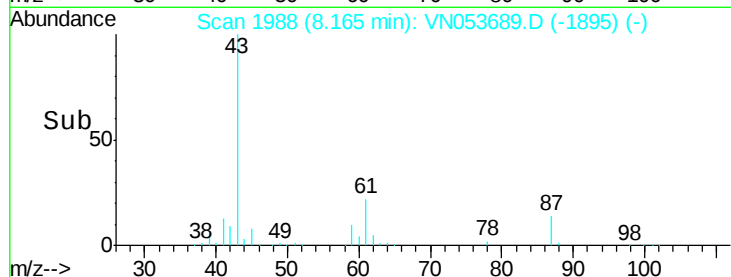
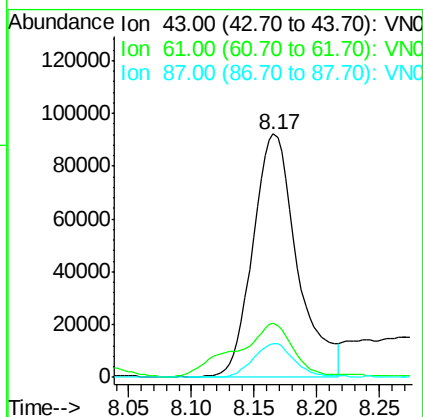
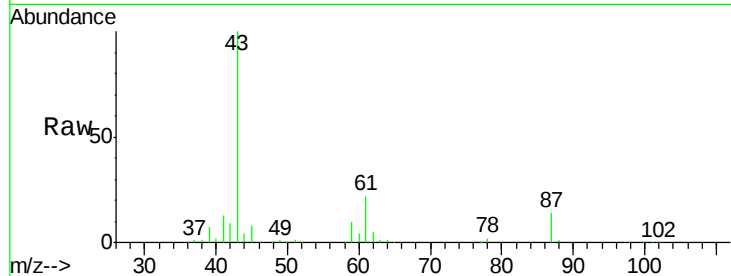
ClientSampleId :

VN0208MBSD01

Tot Ion:	43	Resp:	226459
Ion	Ratio	Lower	Upper
43	100		
61	28.1	23.9	35.9
87	13.0	11.0	16.6

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2/11/2019 9:50:02 AM



#44

Trichloroethene

Concen: 18.396 ug/l

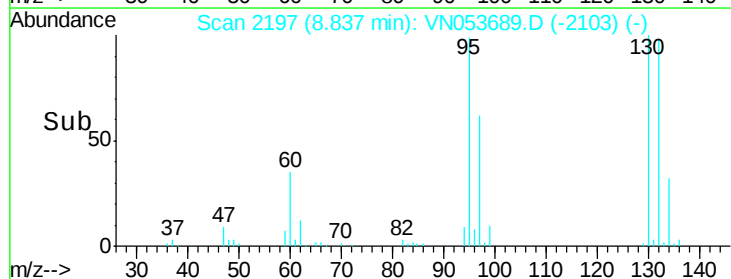
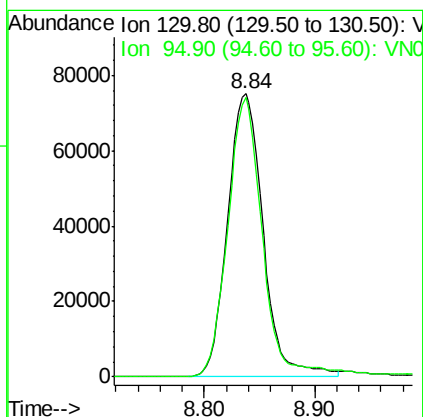
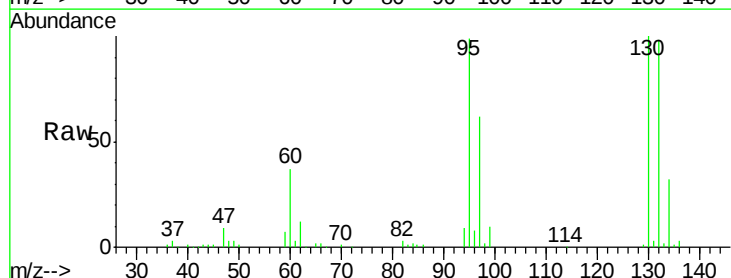
RT: 8.84 min Scan# 2197

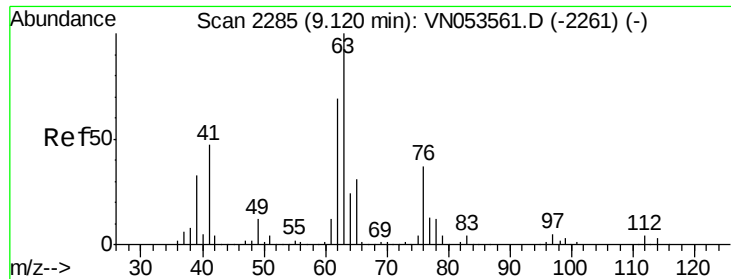
Delta R.T. 0.00 min

Lab File: VN053689.D

Acq: 8 Feb 2019 18:38

Tgt Ion:	130	Resp:	168187
Ion	Ratio	Lower	Upper
130	100		
95	98.8	0.0	191.4





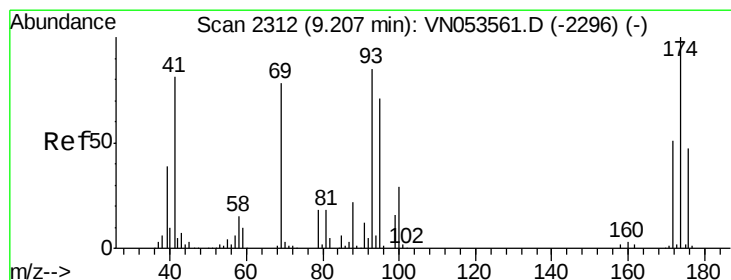
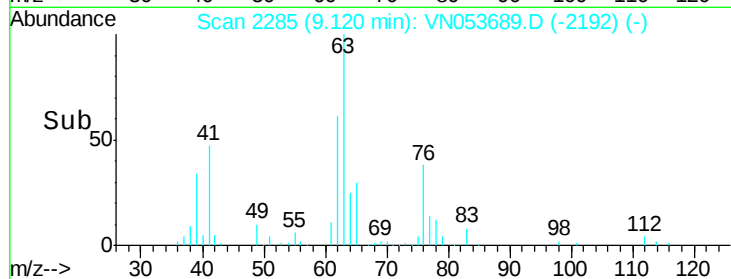
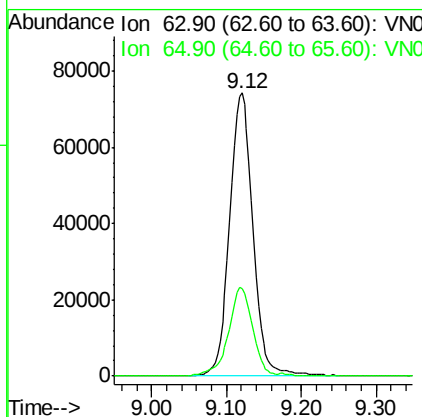
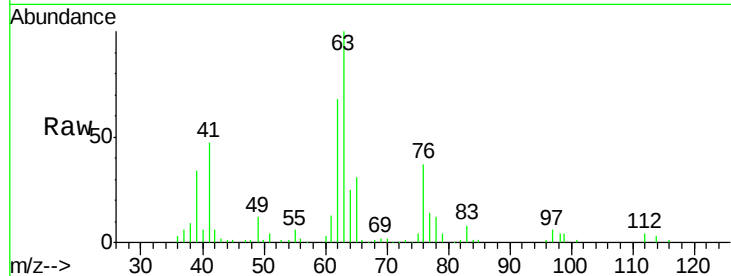
#45
 1,2-Dichloropropane
 Concen: 19.645 ug/l
 RT: 9.12 min Scan# 2285
 Delta R.T. 0.00 min
 Lab File: VN053689.D
 Acq: 8 Feb 2019 18:38

Instrument :
 MSVOA_N
 ClientSampleId :
 VN0208MBSD01

Tot Ion: 63 Resp: 161360
 Ion Ratio Lower Upper
 63 100
 65 30.7 25.0 37.4

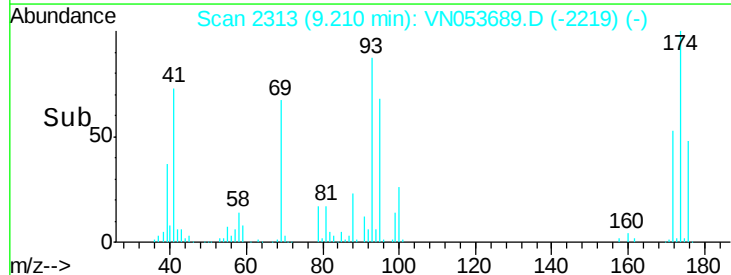
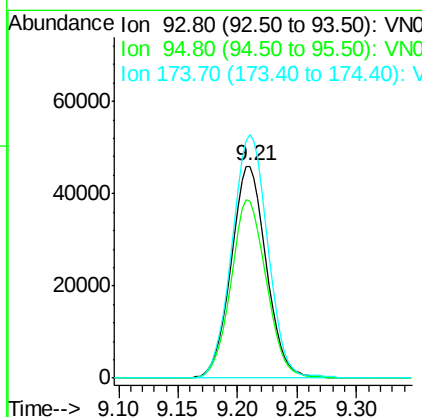
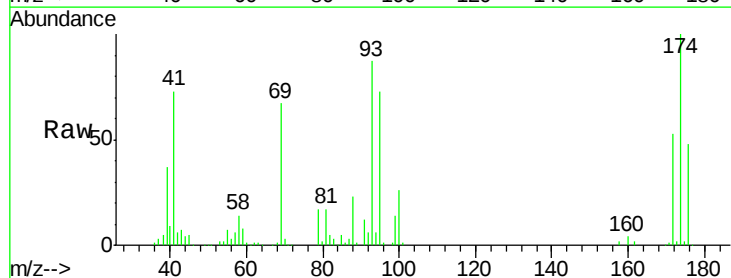
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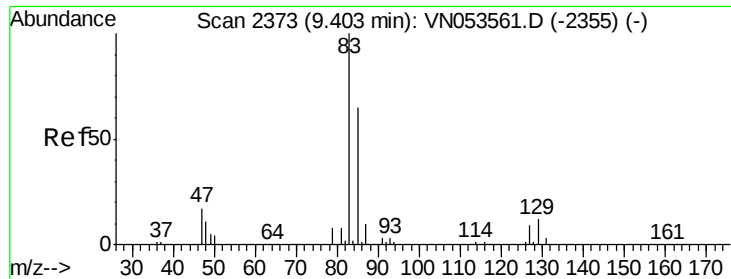
MMDadoda
 2/11/2019 9:50:02 AM



#46
 Dibromomethane
 Concen: 19.045 ug/l
 RT: 9.21 min Scan# 2313
 Delta R.T. 0.00 min
 Lab File: VN053689.D
 Acq: 8 Feb 2019 18:38

Tgt Ion: 93 Resp: 94302
 Ion Ratio Lower Upper
 93 100
 95 84.3 67.3 100.9
 174 116.7 91.0 136.4





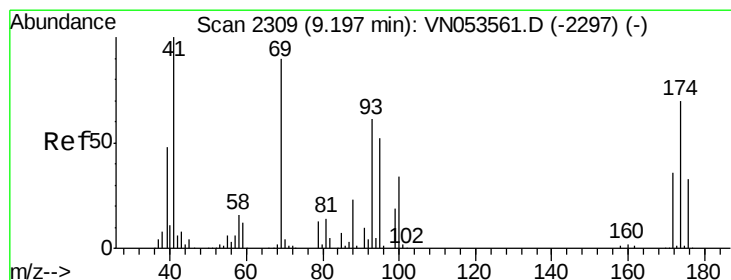
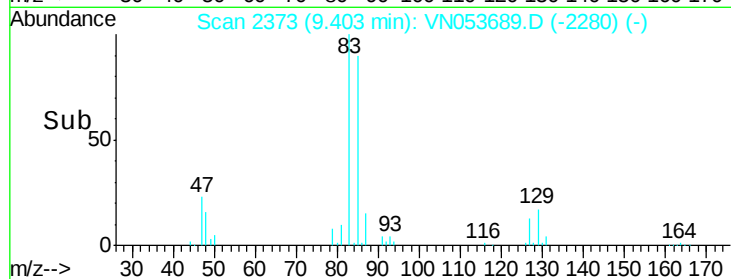
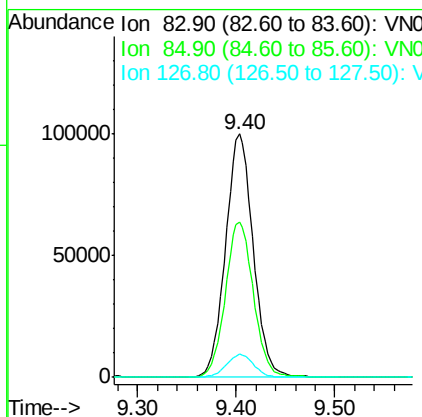
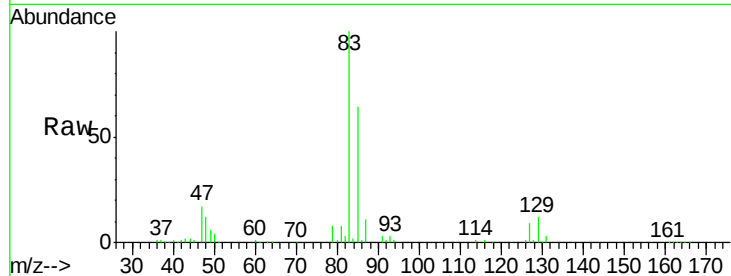
#47
Bromodichloromethane
Concen: 19.026 ug/l
RT: 9.40 min Scan# 2373
Delta R.T. 0.00 min
Lab File: VN053689.D
Acq: 8 Feb 2019 18:38

Instrument :
MSVOA_N
ClientSampleId :
VN0208MBS01

Tot Ion	83	Resp	195880
Ion Ratio	100		
85	63.9	51.0	76.6
127	9.5	7.0	10.6

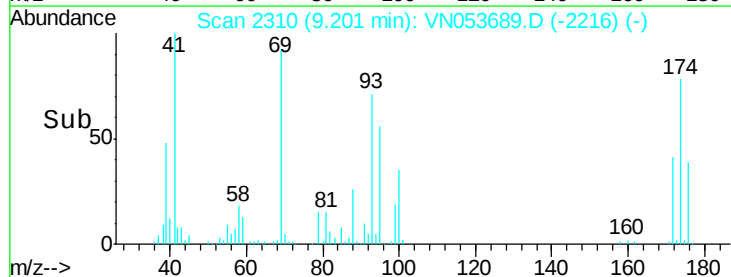
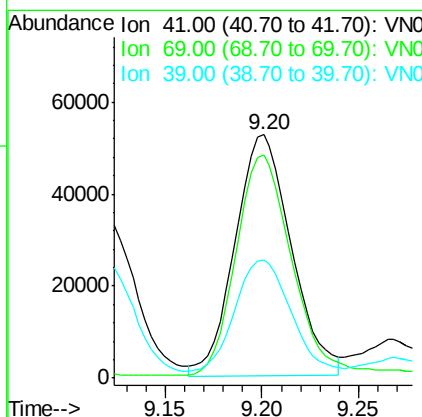
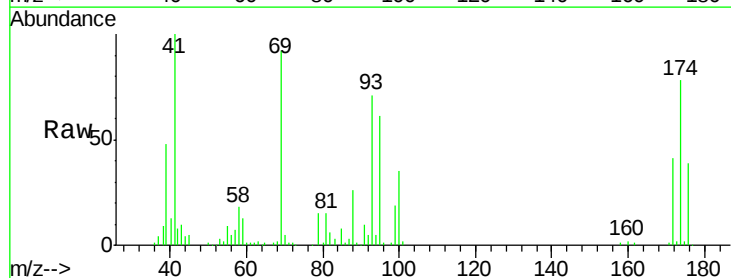
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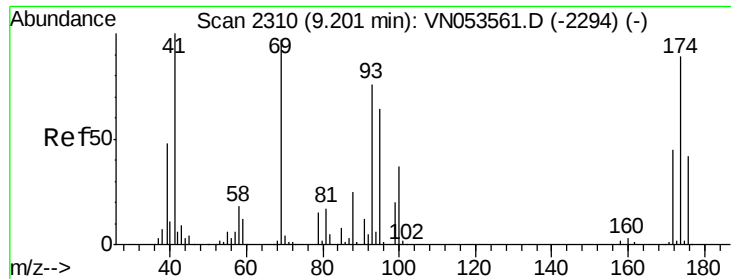
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2/11/2019 9:50:02 AM



#48
Methyl methacrylate
Concen: 19.881 ug/l
RT: 9.20 min Scan# 2310
Delta R.T. 0.00 min
Lab File: VN053689.D
Acq: 8 Feb 2019 18:38

Tgt Ion	41	Resp	106598
Ion Ratio	100		
69	94.5	73.8	110.6
39	50.6	40.0	60.0





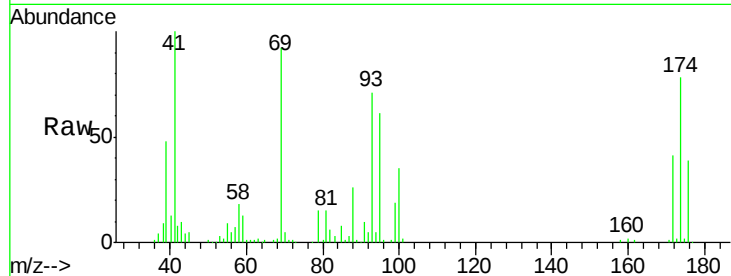
#49
1,4-Dioxane
Concen: 429.574 ug/l
RT: 9.20 min Scan# 2310
Delta R.T. 0.00 min
Lab File: VN053689.D
Acq: 8 Feb 2019 18:38

Instrument :
MSVOA_N
ClientSampleId :
VN0208MBSD01

Tot Ion	Ratio	Lower	Upper
88	100		
43	25.4	27.8	41.6#
58	65.9	56.5	84.7

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2/11/2019 9:50:02 AM

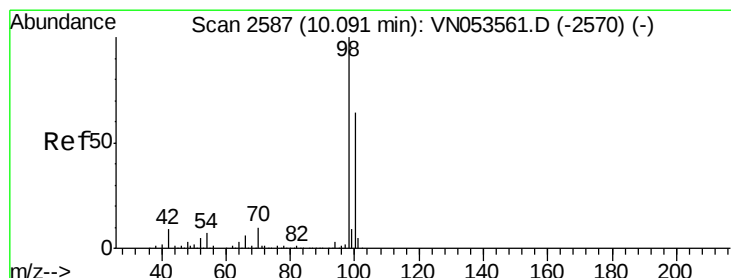
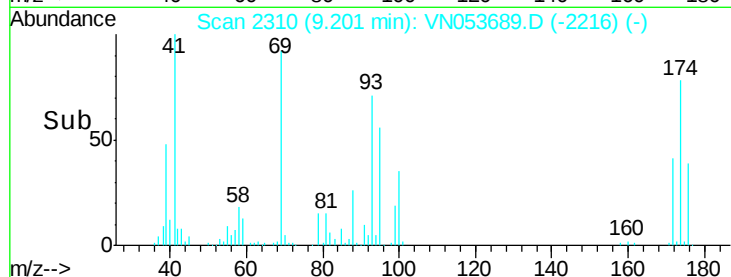
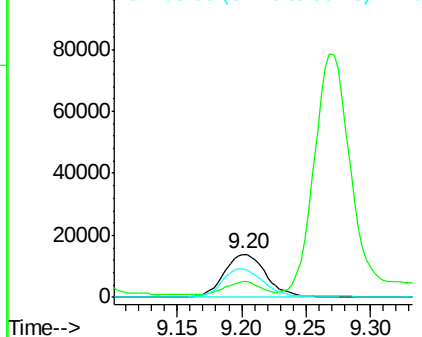


Abundance

Ion 88.00 (87.70 to 88.70): VN053561.D (-2294) (-)

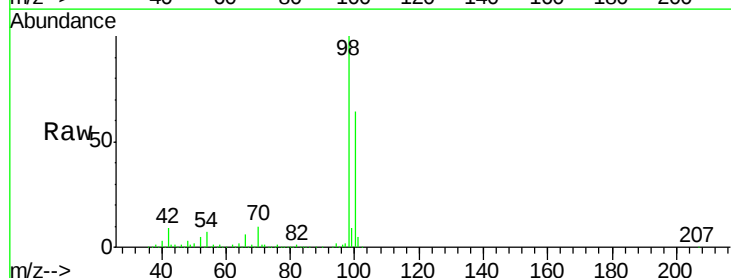
Ion 43.00 (42.70 to 43.70): VN053561.D (-2294) (-)

Ion 58.00 (57.70 to 58.70): VN053561.D (-2294) (-)



#50
Toluene-d8
Concen: 47.472 ug/l
RT: 10.09 min Scan# 2587
Delta R.T. 0.00 min
Lab File: VN053689.D
Acq: 8 Feb 2019 18:38

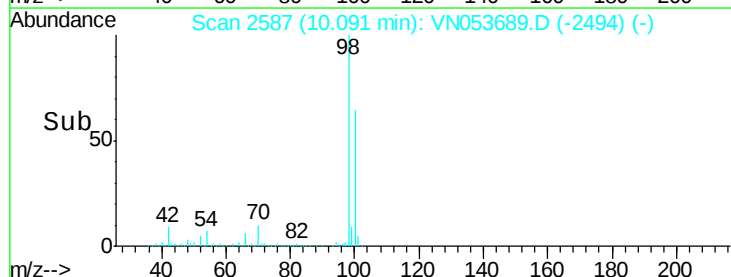
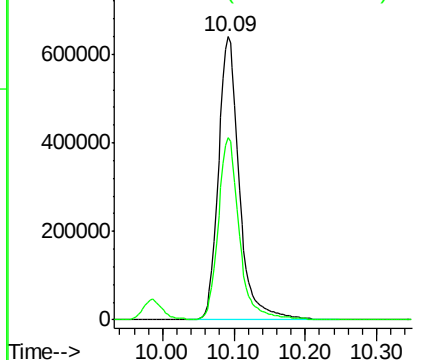
Tgt Ion	Ratio	Lower	Upper
98	100		
100	64.8	51.4	77.0

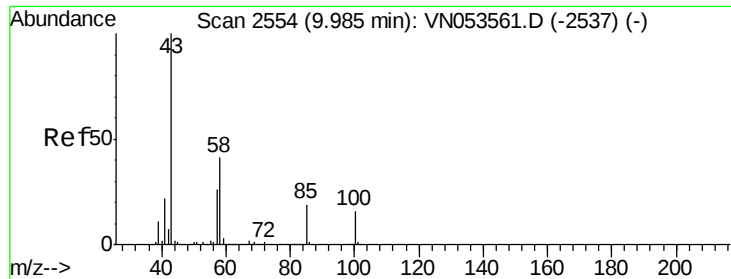


Abundance

Ion 98.00 (97.70 to 98.70): VN053561.D (-2570) (-)

Ion 100.00 (99.70 to 100.70): VN053561.D (-2570) (-)





#51

4-Methyl-2-Pentanone

Concen: 103.897 ug/l

RT: 9.99 min Scan# 2554

Delta R.T. 0.00 min

Lab File: VN053689.D

Acq: 8 Feb 2019 18:38

Instrument :

MSVOA_N

ClientSampleId :

VN0208MBSD01

Tot Ion: 43 Resp: 573476

Ion Ratio Lower Upper

43 100

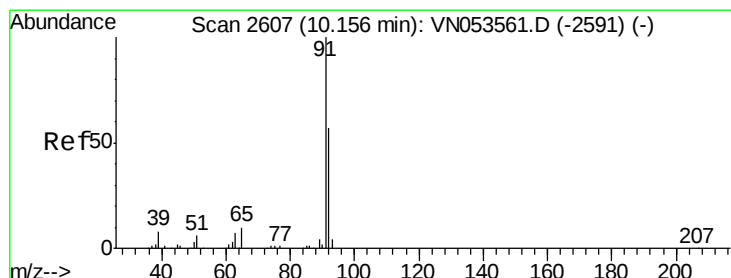
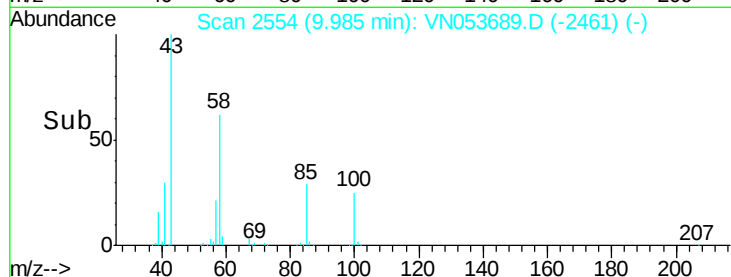
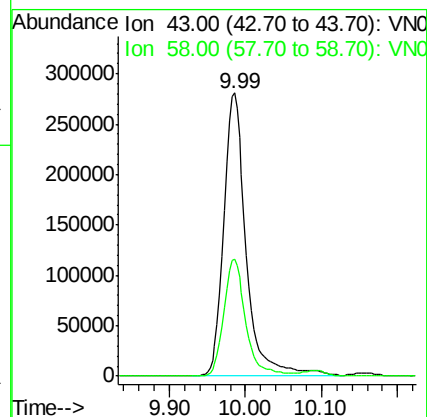
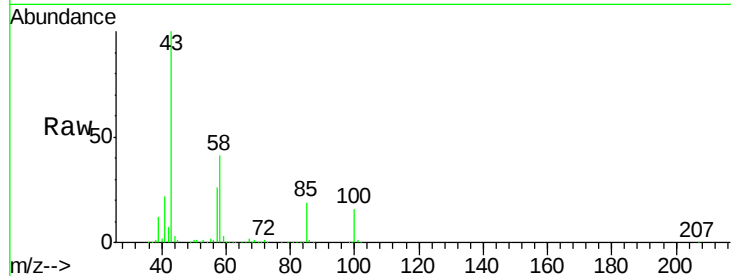
58 40.5 32.8 49.2

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#52

Toluene

Concen: 19.365 ug/l

RT: 10.16 min Scan# 2607

Delta R.T. 0.00 min

Lab File: VN053689.D

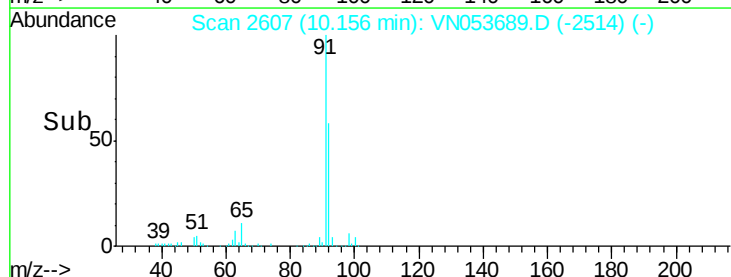
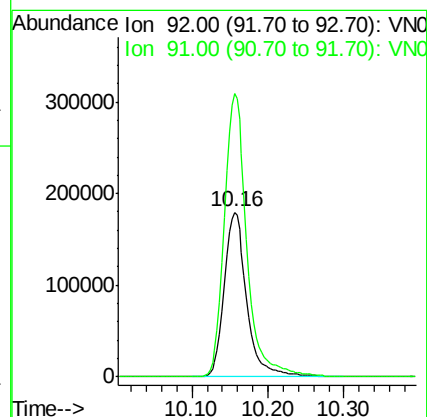
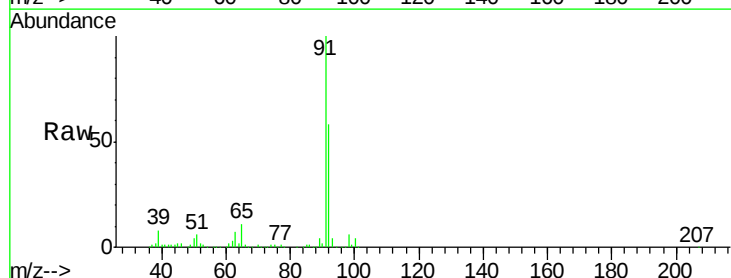
Acq: 8 Feb 2019 18:38

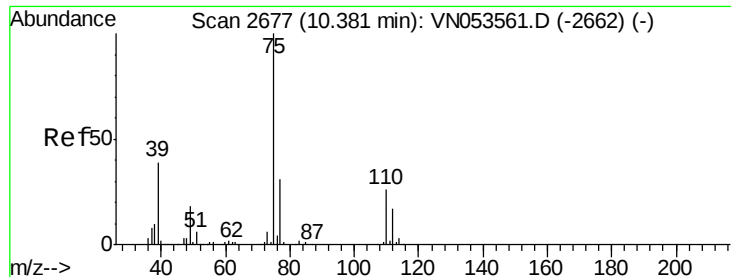
Tgt Ion: 92 Resp: 369080

Ion Ratio Lower Upper

92 100

91 173.1 139.9 209.9





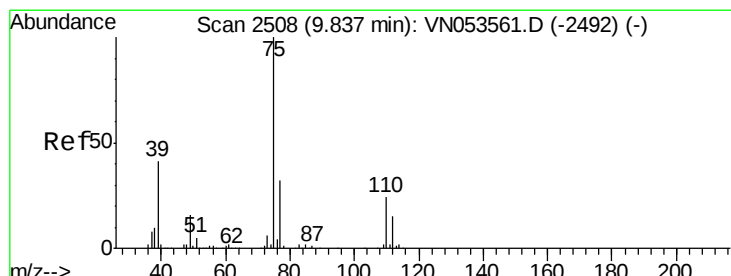
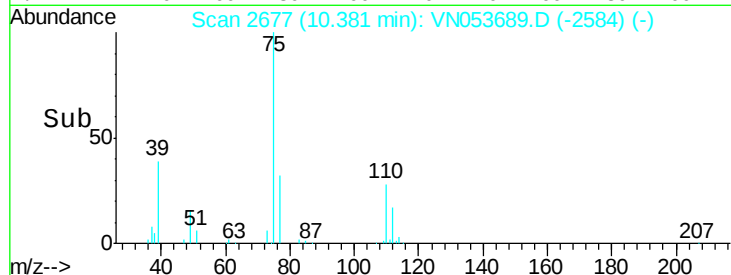
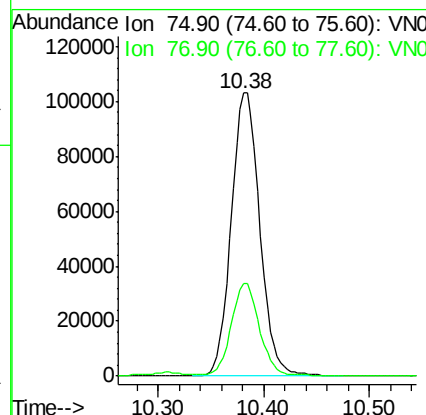
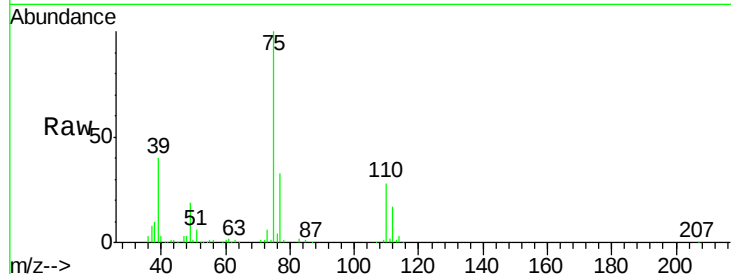
#53
t-1,3-Dichloropropene
Concen: 18.722 ug/l
RT: 10.38 min Scan# 2677
Delta R.T. 0.00 min
Lab File: VN053689.D
Acq: 8 Feb 2019 18:38

Instrument :
MSVOA_N
ClientSampleId :
VN0208MBSD01

Tot Ion: 75 Resp: 193008
Ion Ratio Lower Upper
75 100
77 32.3 25.5 38.3

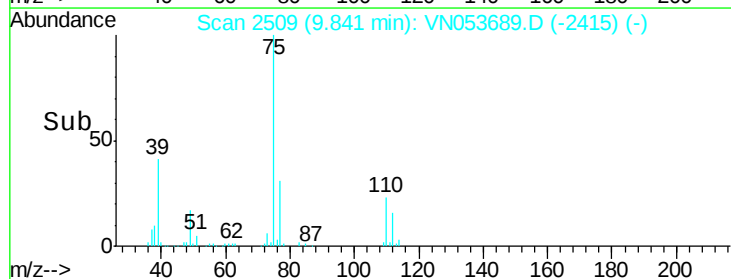
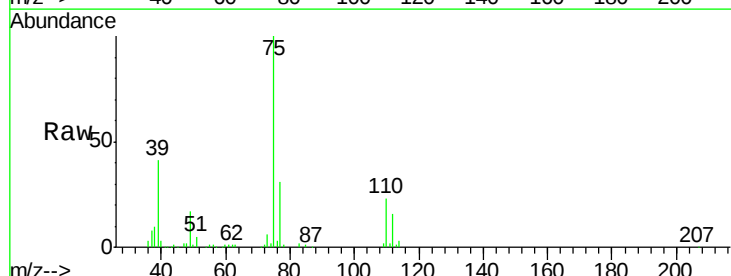
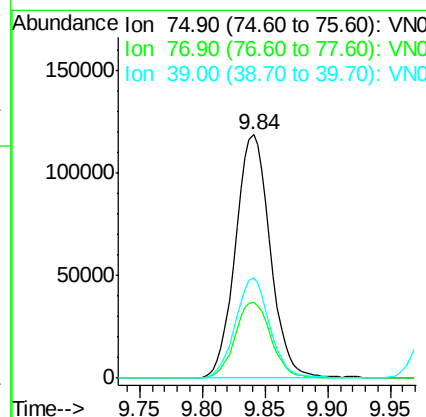
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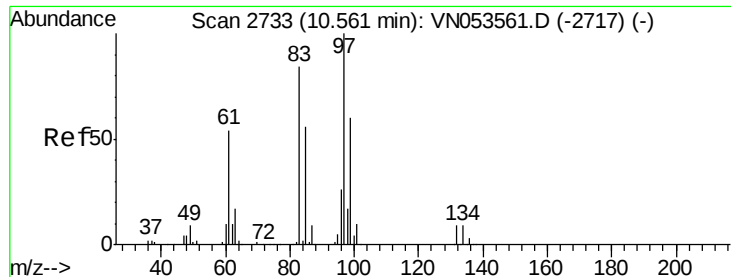
MMDadoda
2/11/2019 9:50:02 AM



#54
cis-1,3-Dichloropropene
Concen: 18.692 ug/l
RT: 9.84 min Scan# 2509
Delta R.T. 0.00 min
Lab File: VN053689.D
Acq: 8 Feb 2019 18:38

Tgt Ion: 75 Resp: 228343
Ion Ratio Lower Upper
75 100
77 31.0 25.8 38.6
39 41.1 33.4 50.0





#55

1,1,2-Trichloroethane

Concen: 20.505 ug/l

RT: 10.56 min Scan# 2734

Delta R.T. 0.00 min

Lab File: VN053689.D

Acq: 8 Feb 2019 18:38

Instrument :

MSVOA_N

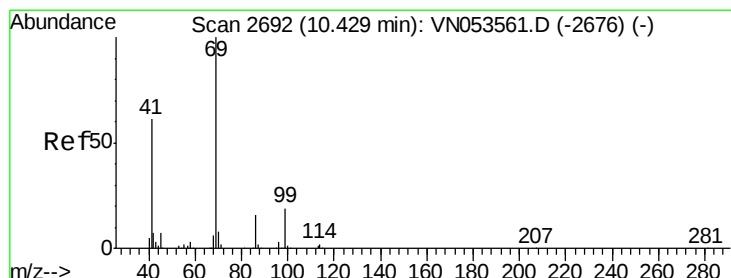
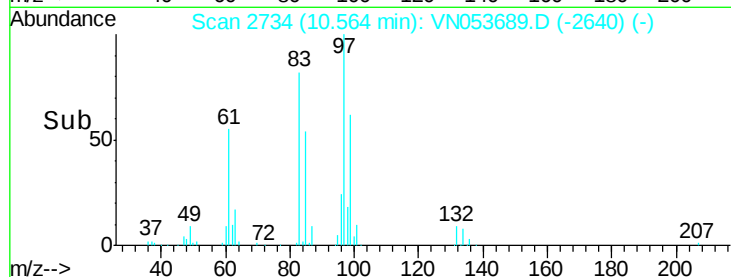
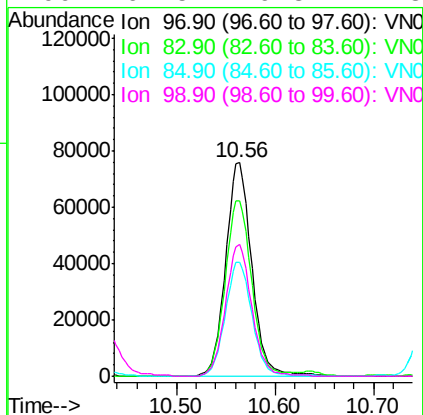
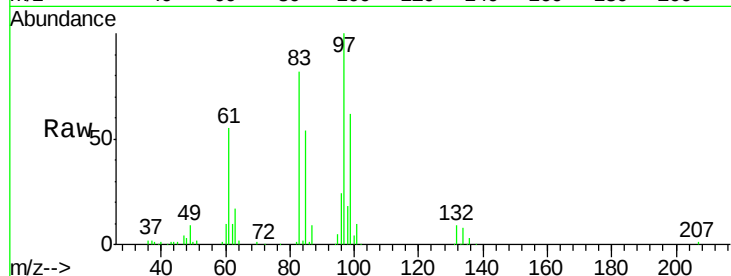
ClientSampleId :

VN0208MBS01

Tot Ion:	97	Resp:	140830
Ion	Ratio	Lower	Upper
97	100		
83	82.0	70.1	105.1
85	53.6	45.4	68.0
99	61.5	49.8	74.8

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#56

Ethyl methacrylate

Concen: 20.173 ug/l

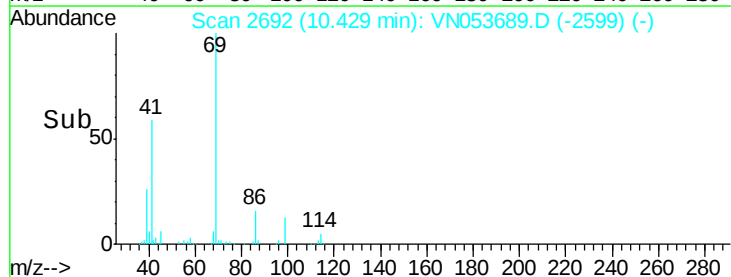
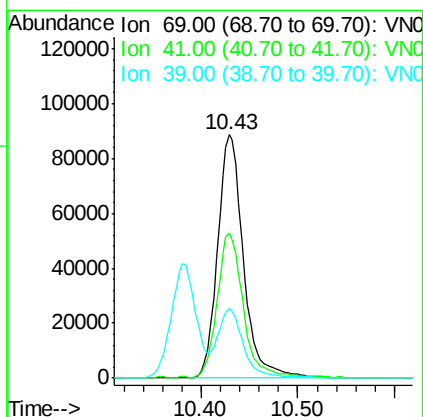
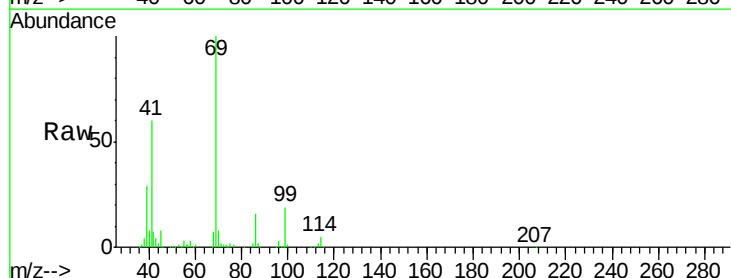
RT: 10.43 min Scan# 2692

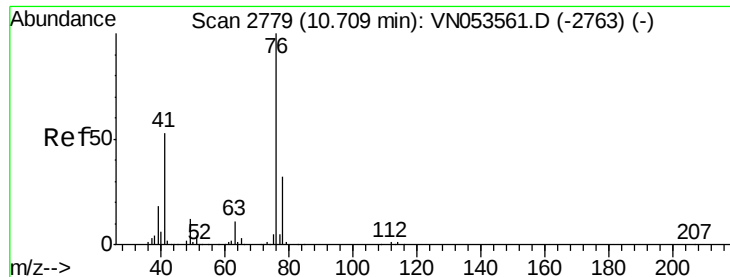
Delta R.T. 0.00 min

Lab File: VN053689.D

Acq: 8 Feb 2019 18:38

Tgt Ion:	69	Resp:	163901
Ion	Ratio	Lower	Upper
69	100		
41	59.2	49.4	74.0
39	27.0	23.3	34.9





#57

1,3-Dichloropropane

Concen: 19.578 ug/l

RT: 10.71 min Scan# 2779

Delta R.T. 0.00 min

Lab File: VN053689.D

Acq: 8 Feb 2019 18:38

Instrument :

MSVOA_N

ClientSampleId :

VN0208MBSD01

Tot Ion: 76 Resp: 229801

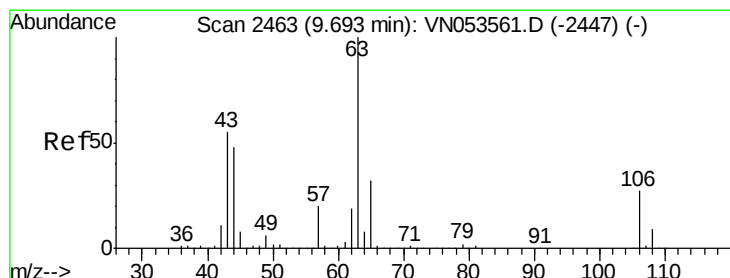
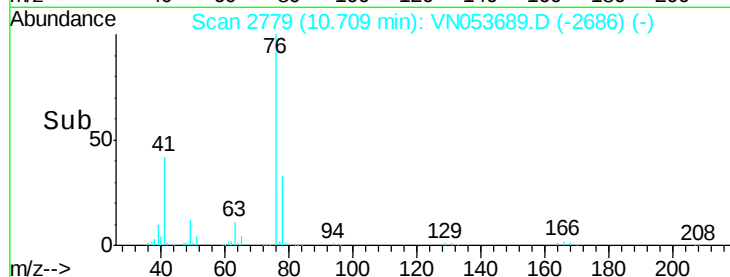
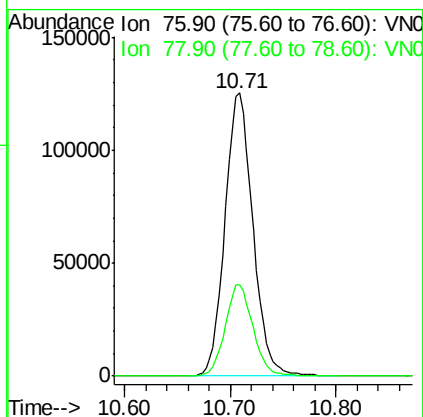
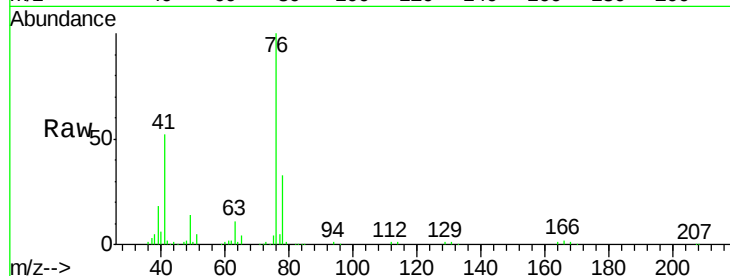
Ion Ratio Lower Upper

76 100

78 32.2 25.6 38.4

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2/11/2019 9:50:02 AM



#58

2-Chloroethyl Vinyl ether

Concen: 85.188 ug/l

RT: 9.70 min Scan# 2464

Delta R.T. 0.00 min

Lab File: VN053689.D

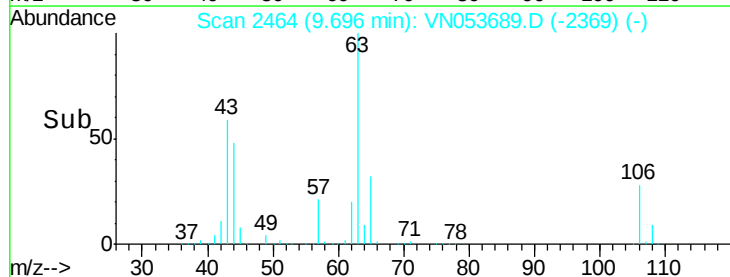
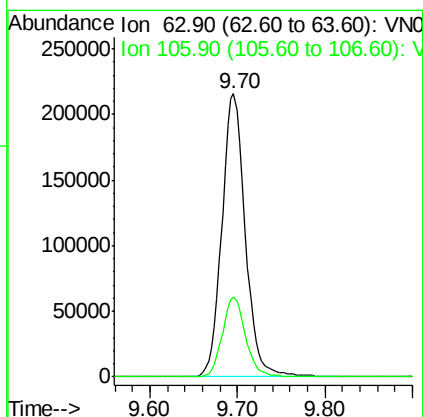
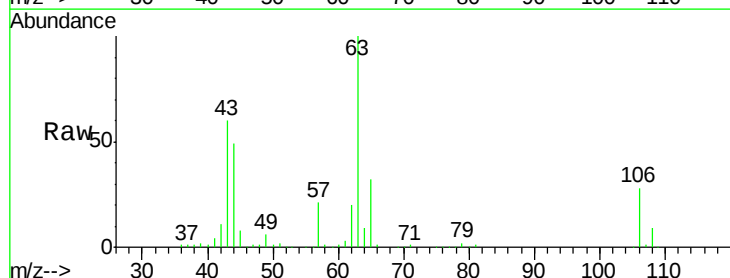
Acq: 8 Feb 2019 18:38

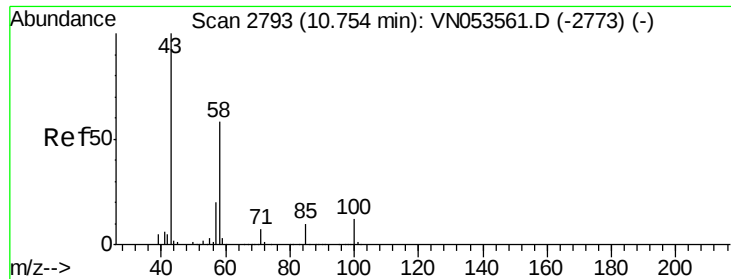
Tgt Ion: 63 Resp: 401759

Ion Ratio Lower Upper

63 100

106 27.8 21.5 32.3





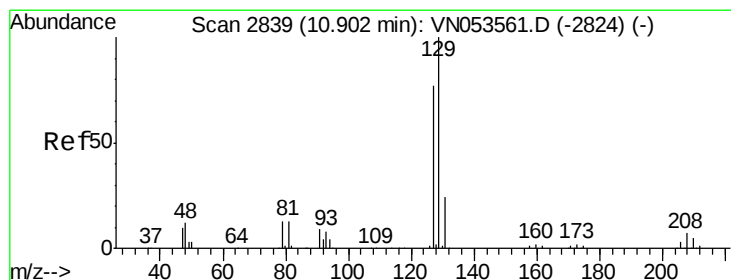
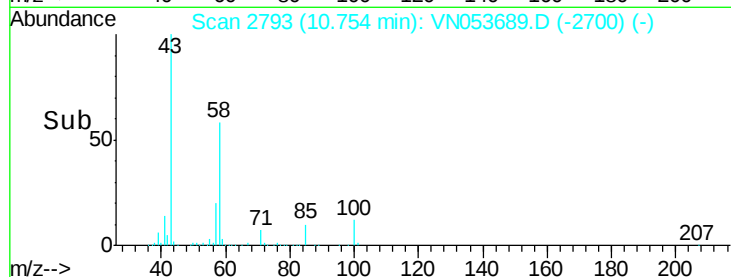
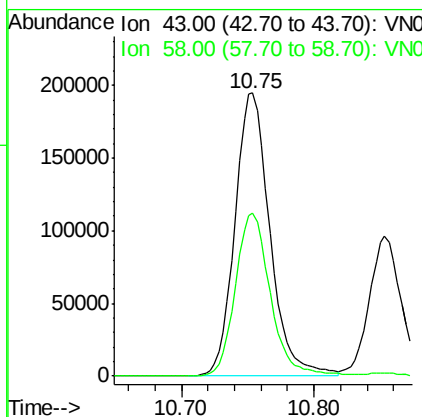
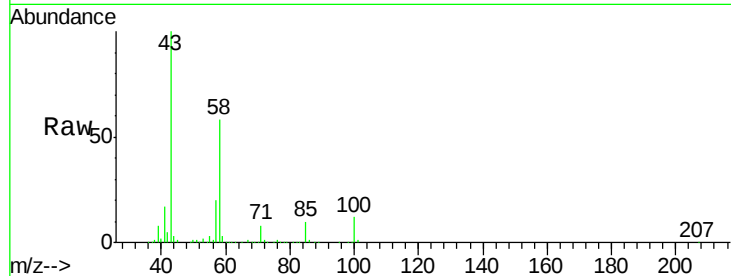
#59
2-Hexanone
Concen: 94.905 ug/l
RT: 10.75 min Scan# 2793
Delta R.T. 0.00 min
Lab File: VN053689.D
Acq: 8 Feb 2019 18:38

Instrument :
MSVOA_N
ClientSampleId :
VN0208MBSD01

Tot Ion: 43 Resp: 355621
Ion Ratio Lower Upper
43 100
58 57.8 28.6 85.8

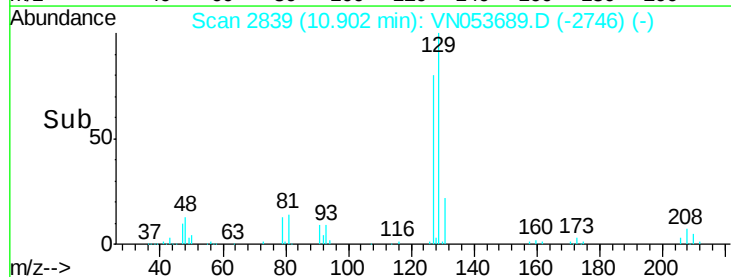
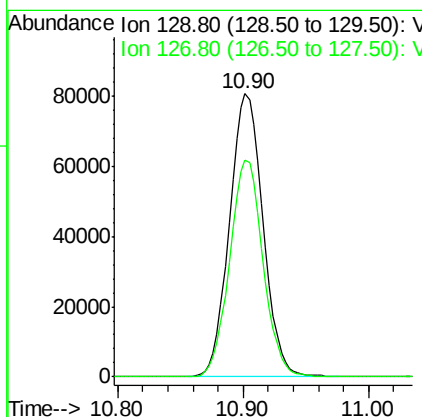
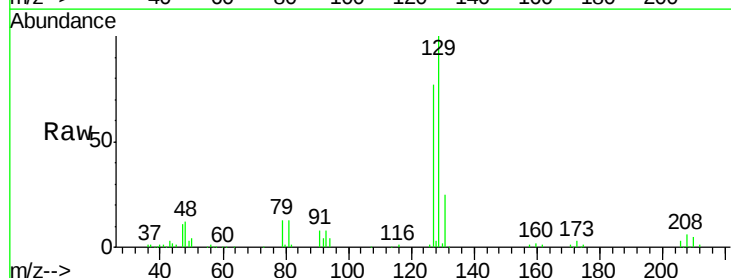
Manual Integrations
APPROVED

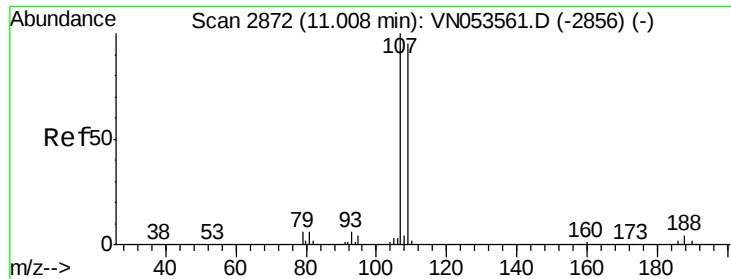
MMDadoda
2/11/2019 9:50:02 AM



#60
Dibromochloromethane
Concen: 19.353 ug/l
RT: 10.90 min Scan# 2839
Delta R.T. 0.00 min
Lab File: VN053689.D
Acq: 8 Feb 2019 18:38

Tgt Ion: 129 Resp: 149886
Ion Ratio Lower Upper
129 100
127 76.1 38.6 115.8





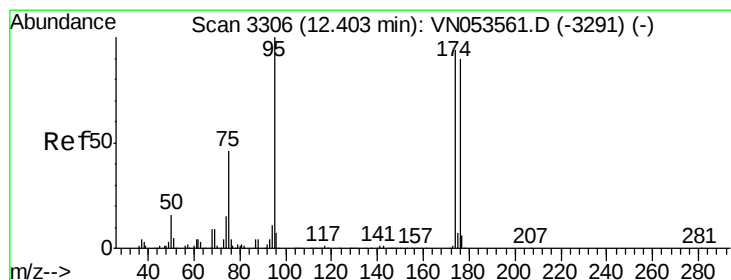
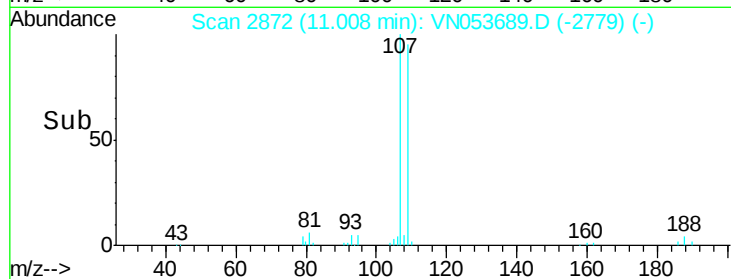
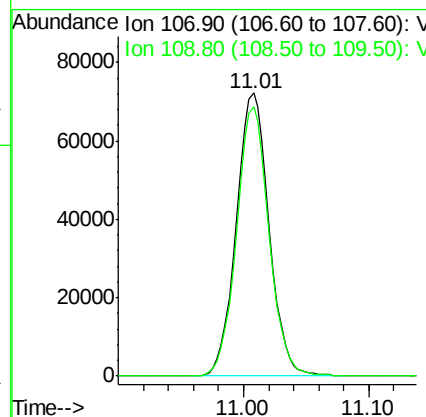
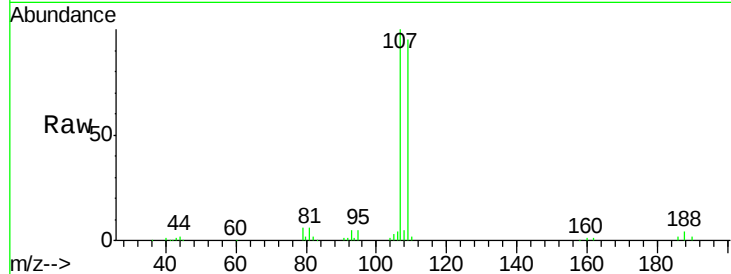
#61
 1,2-Dibromoethane
 Concen: 19.226 ug/l
 RT: 11.01 min Scan# 2872
 Delta R.T. 0.00 min
 Lab File: VN053689.D
 Acq: 8 Feb 2019 18:38

Instrument :
 MSVOA_N
 ClientSampleId :
 VN0208MBSD01

Tot Ion	Ratio	Resp	Lower	Upper
107	100	130692		
109	94.4	75.7	113.5	

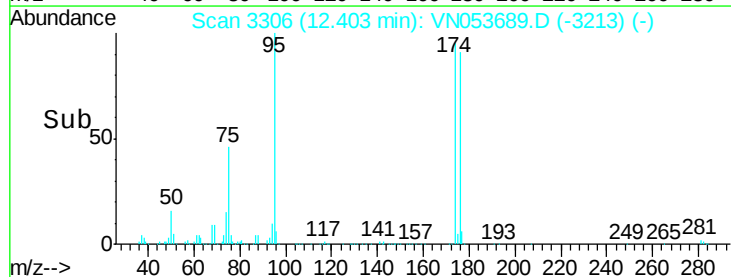
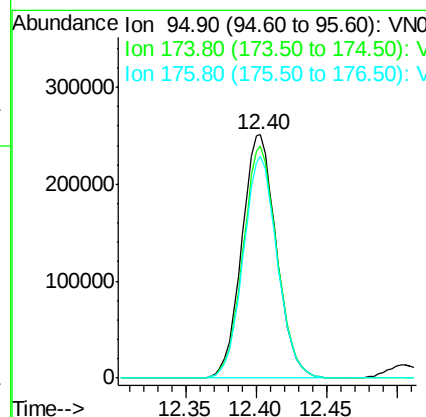
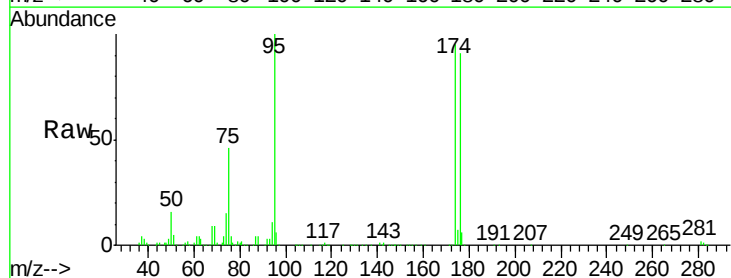
Manual Integrations
 APPROVED

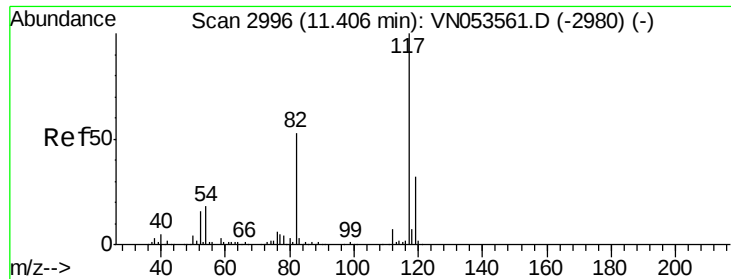
MMDadoda
 2/11/2019 9:50:02 AM



#62
 4-Bromofluorobenzene
 Concen: 47.158 ug/l
 RT: 12.40 min Scan# 3306
 Delta R.T. 0.00 min
 Lab File: VN053689.D
 Acq: 8 Feb 2019 18:38

Tgt Ion	Ratio	Resp	Lower	Upper
95	100	431091		
174	93.6	0.0	183.2	
176	89.8	0.0	177.4	





#63

Chlorobenzene-d5

Concen: 50.000 ug/l

RT: 11.41 min Scan# 2997

Delta R.T. 0.00 min

Lab File: VN053689.D

Acq: 8 Feb 2019 18:38

Instrument :

MSVOA_N

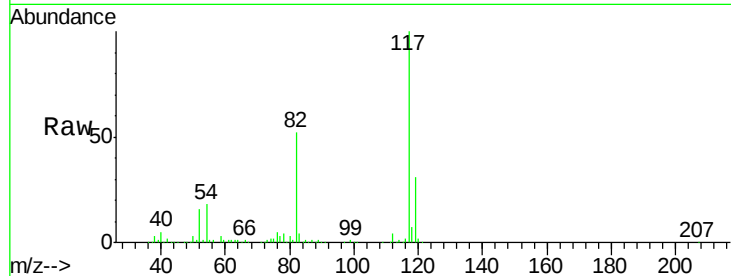
ClientSampleId :

VN0208MBS01

Tot Ion:	117	Resp:	991088
Ion Ratio	Lower	Upper	
117	100		
82	52.2	42.9	64.3
119	31.5	26.0	39.0

Manual Integrations
APPROVED

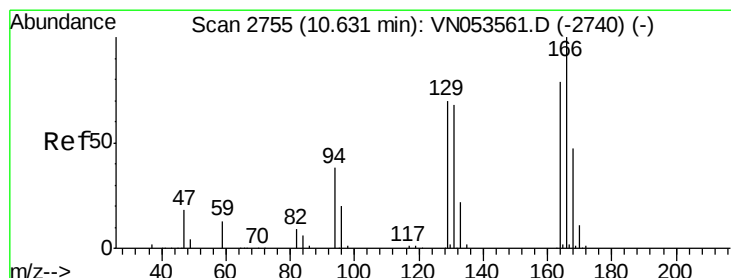
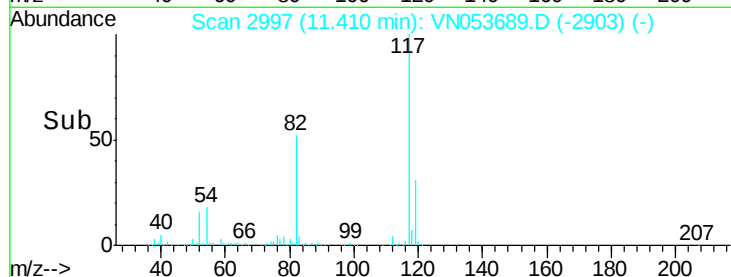
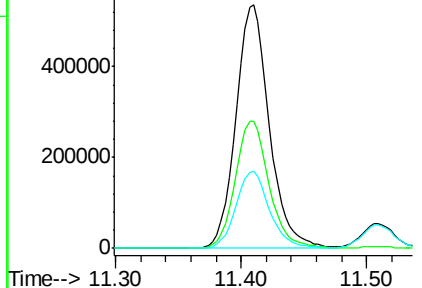
MMDadoda
2/11/2019 9:50:02 AM



Abundance Ion 116.90 (116.60 to 117.60): V

Ion 82.00 (81.70 to 82.70): V

Ion 118.90 (118.60 to 119.60): V



#64

Tetrachloroethene

Concen: 18.433 ug/l

RT: 10.63 min Scan# 2755

Delta R.T. 0.00 min

Lab File: VN053689.D

Acq: 8 Feb 2019 18:38

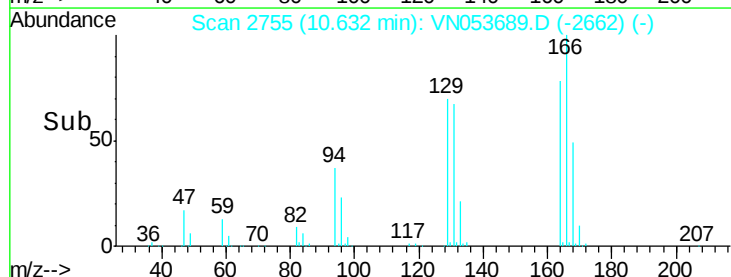
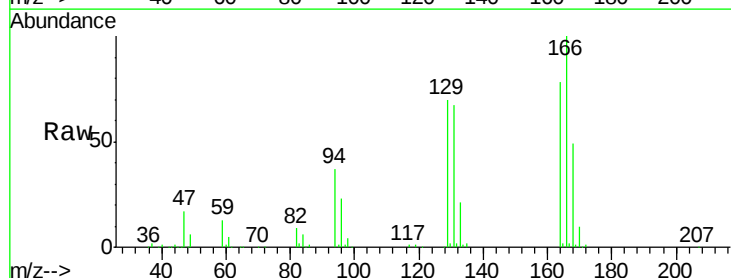
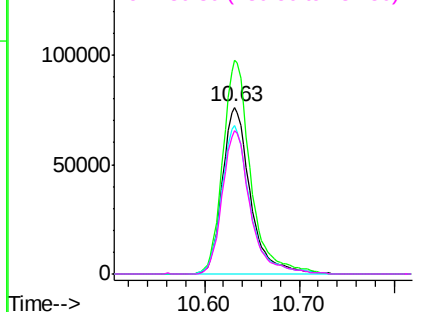
Tgt Ion:	164	Resp:	156600
Ion Ratio	Lower	Upper	
164	100		
166	128.4	102.2	153.4
129	89.4	72.6	109.0
131	86.0	69.5	104.3

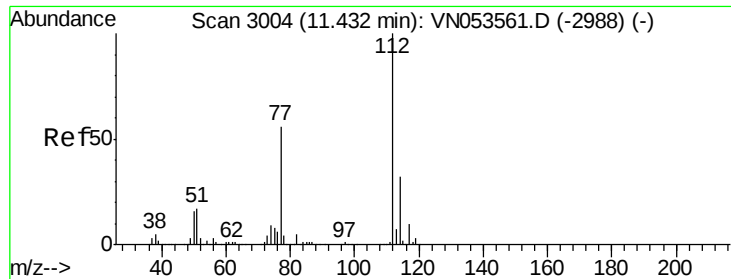
Abundance Ion 163.80 (163.50 to 164.50): V

Ion 165.80 (165.50 to 166.50): V

Ion 128.80 (128.50 to 129.50): V

Ion 130.80 (130.50 to 131.50): V





#65

Chlorobenzene

Concen: 19.061 ug/l

RT: 11.44 min Scan# 3005

Delta R.T. 0.00 min

Lab File: VN053689.D

Acq: 8 Feb 2019 18:38

Instrument :

MSVOA_N

ClientSampleId :

VN0208MBSD01

Tot Ion:112 Resp: 401277

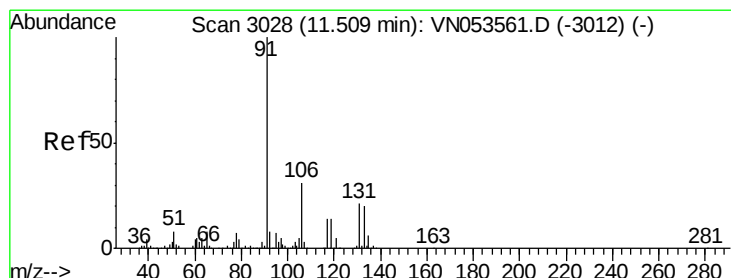
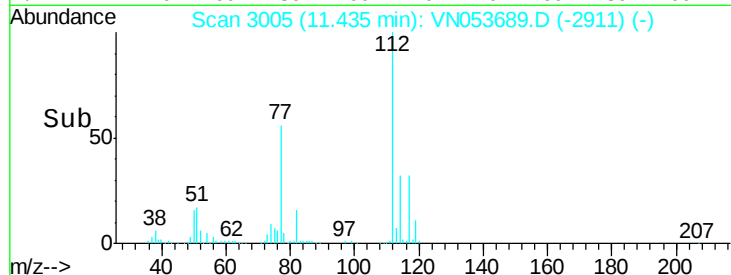
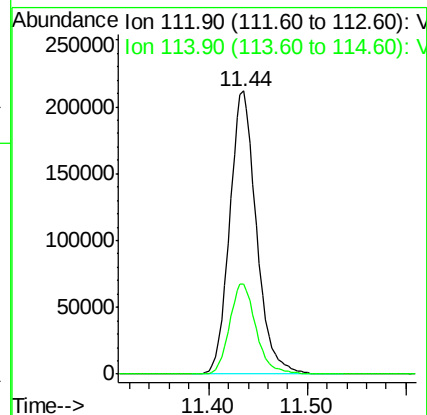
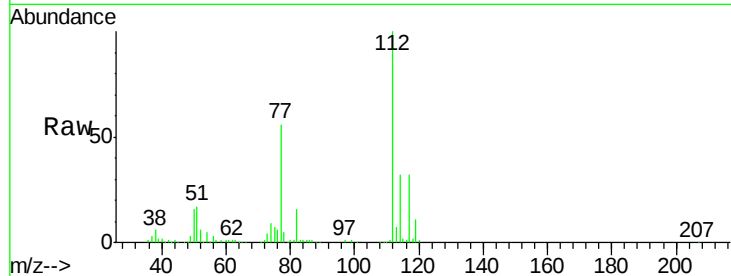
Ion Ratio Lower Upper

112 100

114 31.8 25.3 37.9

Manual Integrations
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#66

1,1,1,2-Tetrachloroethane

Concen: 19.582 ug/l

RT: 11.51 min Scan# 3028

Delta R.T. 0.00 min

Lab File: VN053689.D

Acq: 8 Feb 2019 18:38

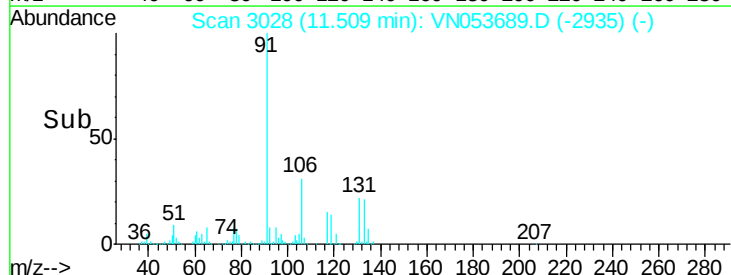
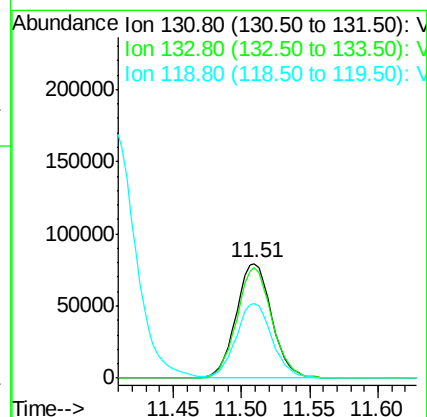
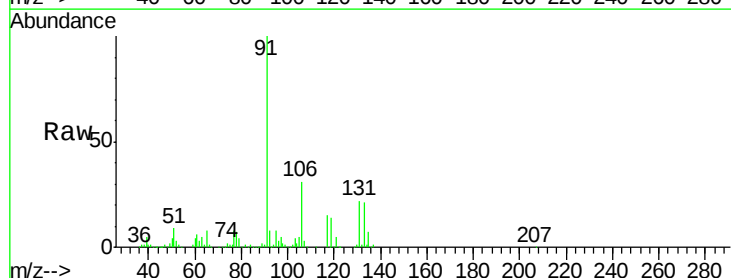
Tgt Ion:131 Resp: 143972

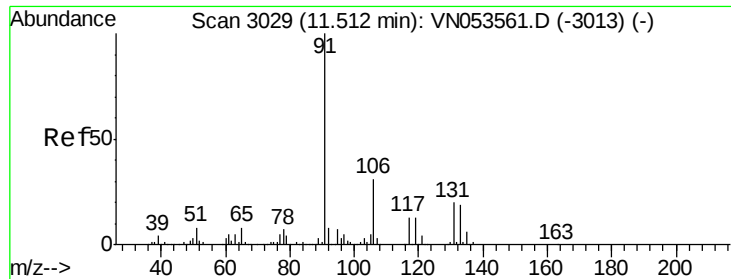
Ion Ratio Lower Upper

131 100

133 95.2 48.0 144.0

119 66.1 33.5 100.5





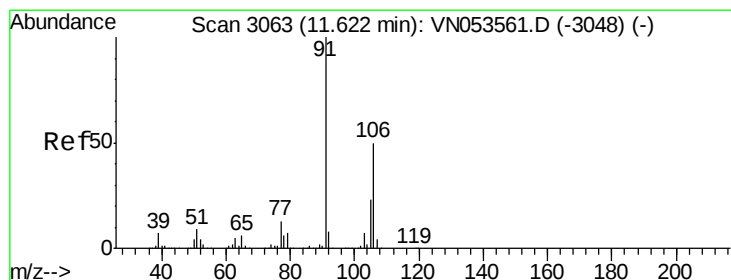
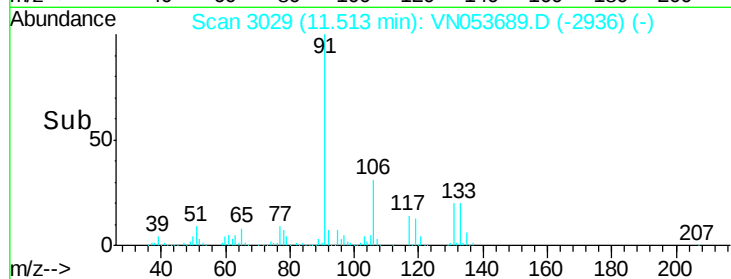
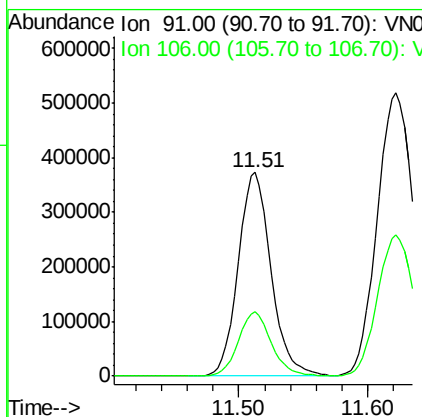
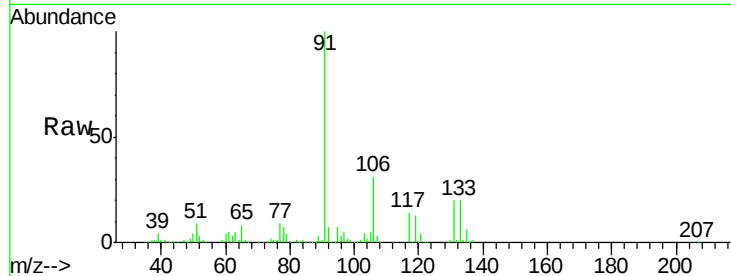
#67
Ethyl Benzene
Concen: 19.116 ug/l
RT: 11.51 min Scan# 3029
Delta R.T. 0.00 min
Lab File: VN053689.D
Acq: 8 Feb 2019 18:38

Instrument :
MSVOA_N
ClientSampleId :
VN0208MBSD01

Tot Ion: 91 Resp: 661054
Ion Ratio Lower Upper
91 100
106 31.4 25.0 37.6

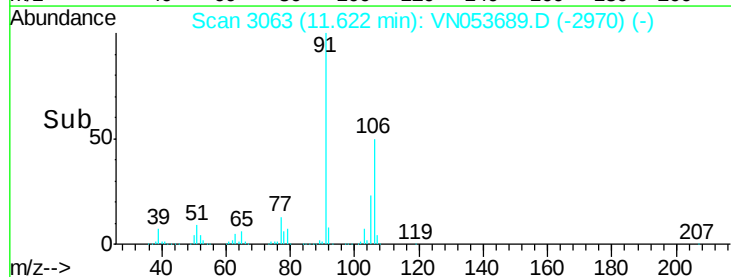
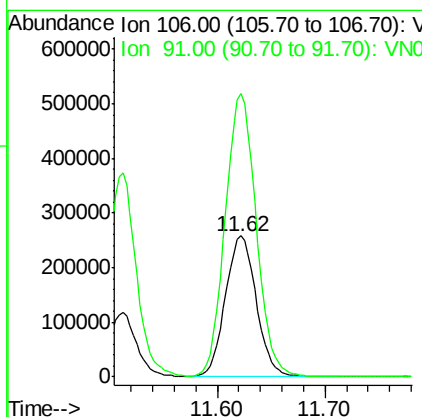
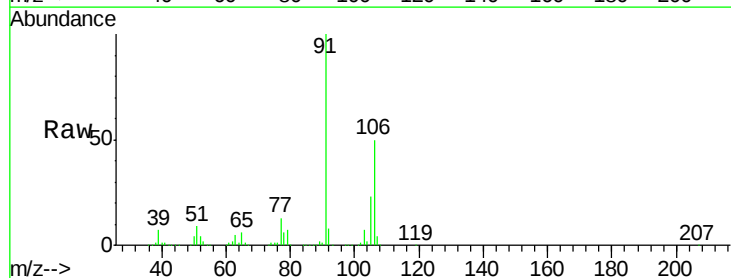
Manual Integrations
APPROVED

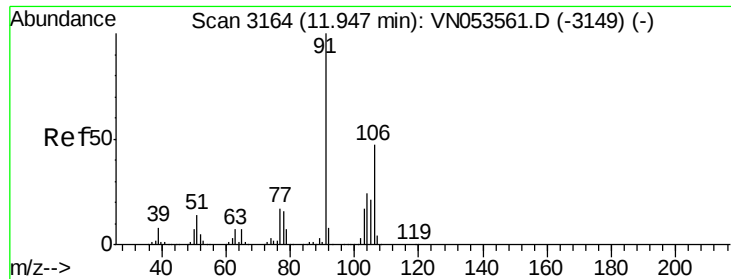
MMDadoda
2/11/2019 9:50:02 AM



#68
m/p-Xylenes
Concen: 39.107 ug/l
RT: 11.62 min Scan# 3063
Delta R.T. 0.00 min
Lab File: VN053689.D
Acq: 8 Feb 2019 18:38

Tgt Ion: 106 Resp: 516157
Ion Ratio Lower Upper
106 100
91 201.2 161.4 242.2





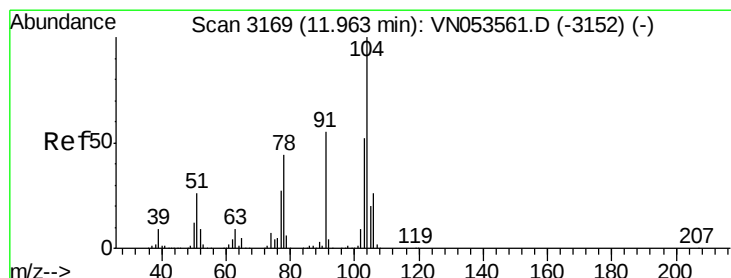
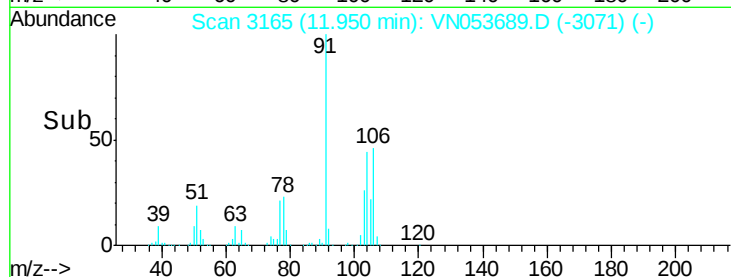
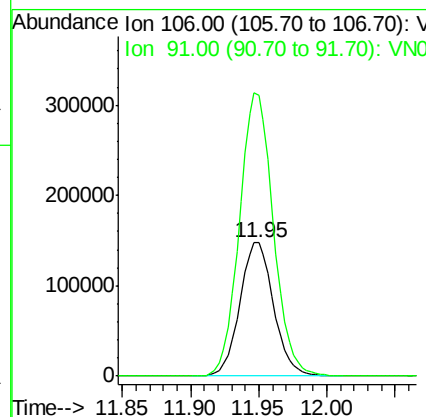
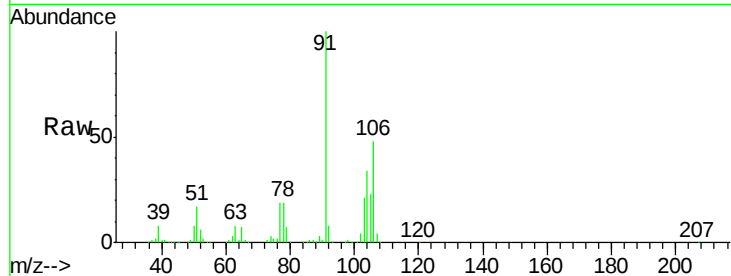
#69
o-Xylene
Concen: 19.891 ug/l
RT: 11.95 min Scan# 3165
Delta R.T. 0.00 min
Lab File: VN053689.D
Acq: 8 Feb 2019 18:38

Instrument :
MSVOA_N
ClientSampled :
VN0208MBS01

Tot Ion	Ion	Ratio	Resp	Lower	Upper
106	106	100	253626		
91	91	212.5	106.9	320.8	

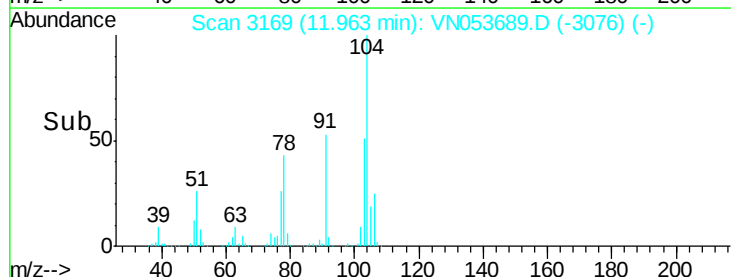
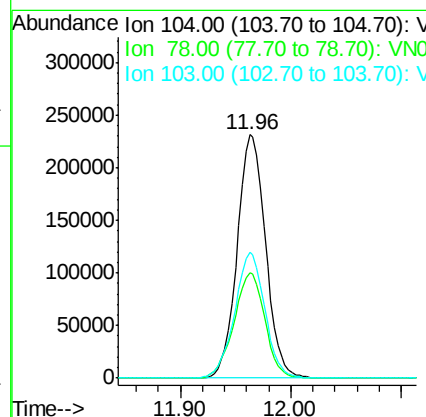
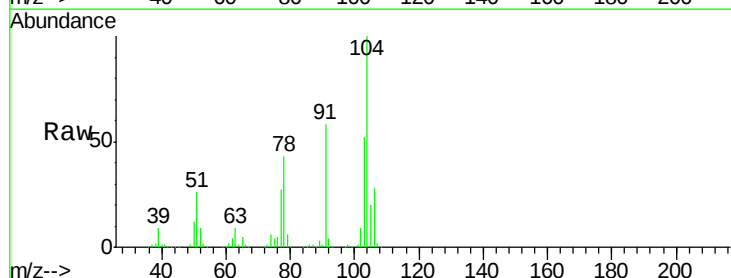
Manual Integrations
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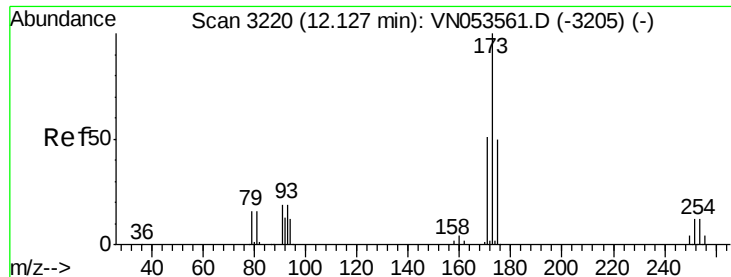
MMDadoda
2/11/2019 9:50:02 AM



#70
Styrene
Concen: 19.996 ug/l
RT: 11.96 min Scan# 3169
Delta R.T. 0.00 min
Lab File: VN053689.D
Acq: 8 Feb 2019 18:38

Tgt Ion	Ion	Ratio	Resp	Lower	Upper
104	104	100	413255		
78	78	47.2	38.2	57.2	
103	103	55.0	44.4	66.6	





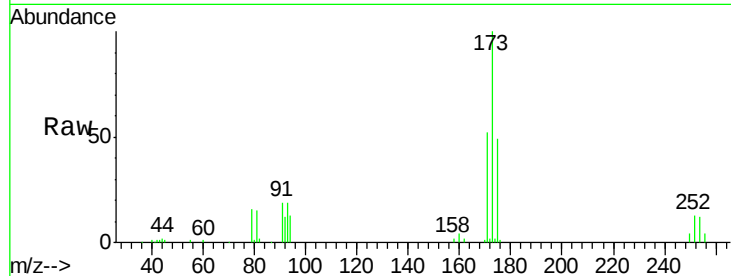
#71
Bromoform
Concen: 19.806 ug/l
RT: 12.13 min Scan# 3220
Delta R.T. 0.00 min
Lab File: VN053689.D
Acq: 8 Feb 2019 18:38

Instrument :
MSVOA_N
ClientSampleId :
VN0208MBSD01

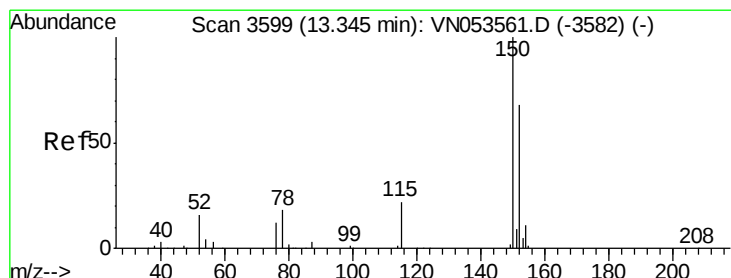
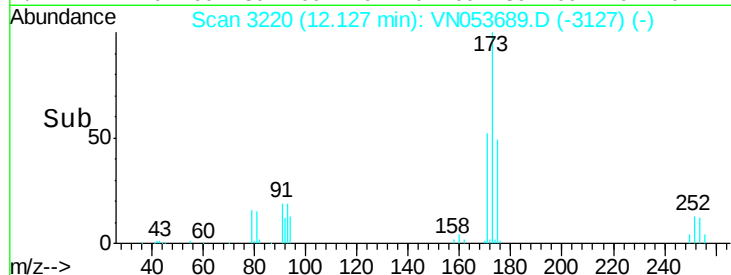
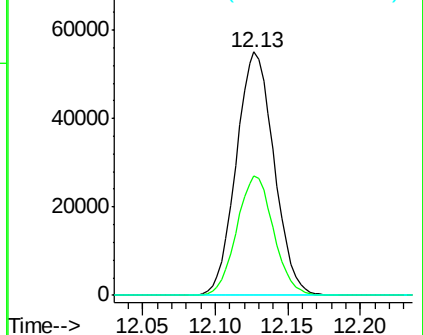
Tot Ion	Ratio	Lower	Upper
173	100		
175	47.5	24.6	74.0
254	0.0	0.2	0.2

Manual Integrations
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MMDadoda
2/11/2019 9:50:02 AM

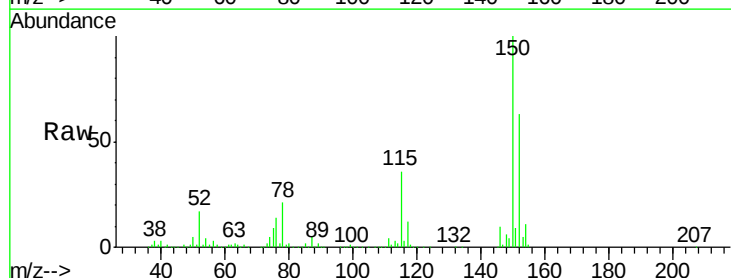


Abundance Ion 172.70 (172.40 to 173.40): V
Ion 174.70 (174.40 to 175.40): V
Ion 254.40 (254.10 to 255.10): V

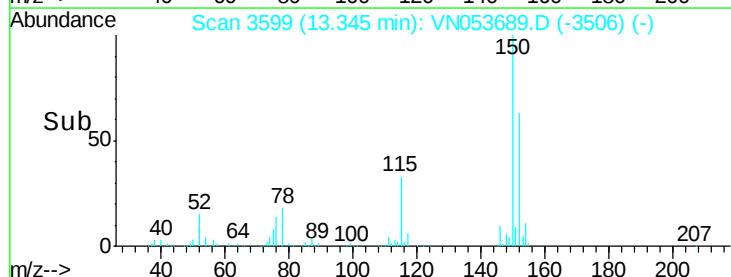
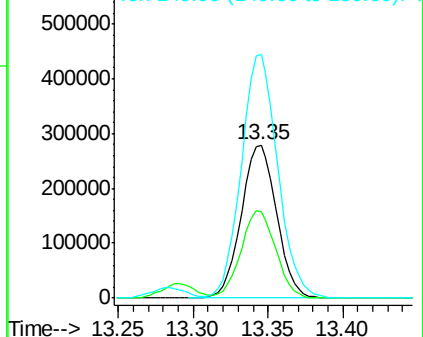


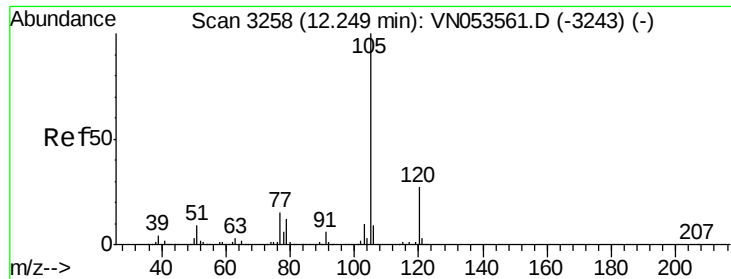
#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 13.35 min Scan# 3599
Delta R.T. 0.00 min
Lab File: VN053689.D
Acq: 8 Feb 2019 18:38

Tgt Ion	Ratio	Lower	Upper
152	100		
115	56.5	27.8	83.4
150	164.1	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





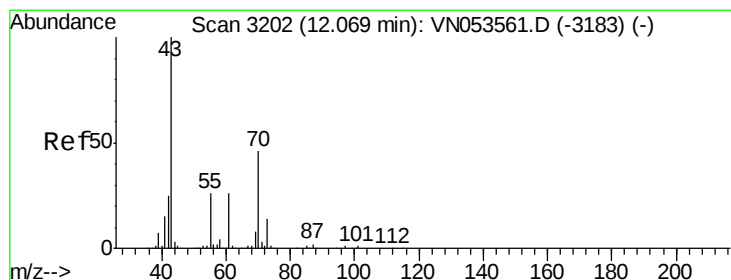
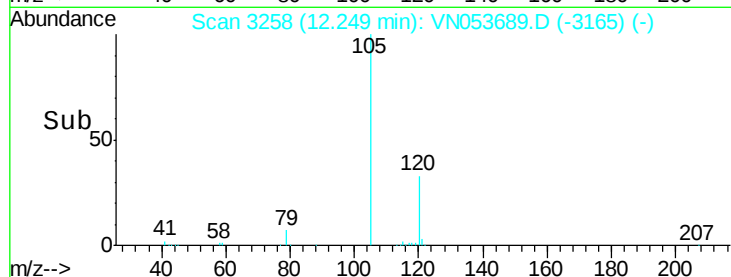
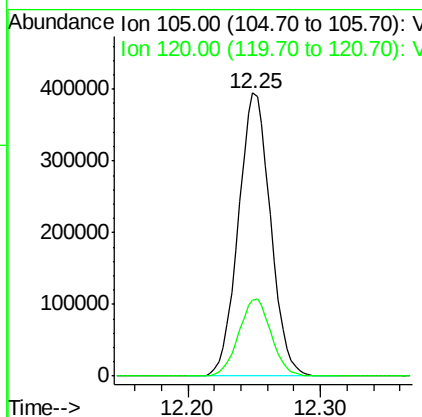
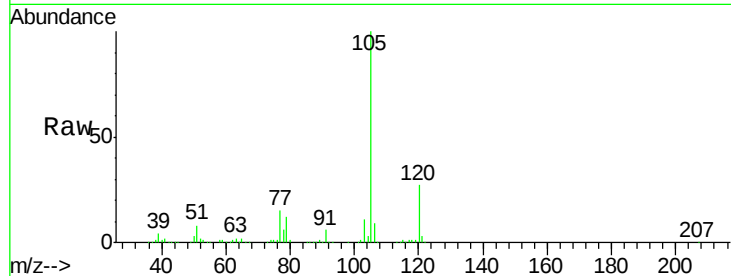
#73
Isopropylbenzene
Concen: 20.570 ug/l
RT: 12.25 min Scan# 3258
Delta R.T. 0.00 min
Lab File: VN053689.D
Acq: 8 Feb 2019 18:38

Instrument :
MSVOA_N
ClientSampleId :
VN0208MBSD01

Tot Ion: 105 Resp: 662978
Ion Ratio Lower Upper
105 100
120 27.5 13.6 40.7

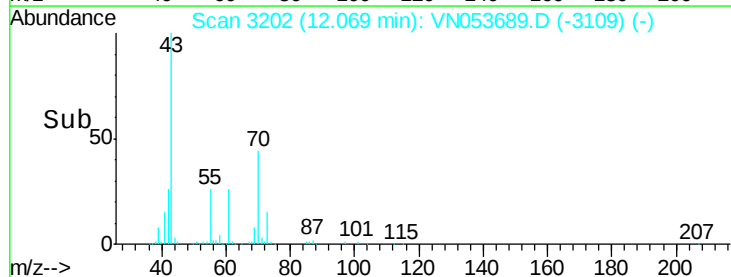
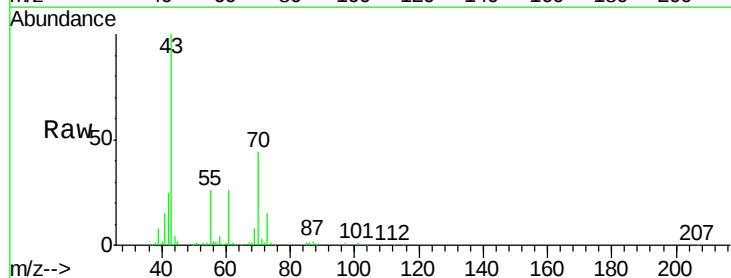
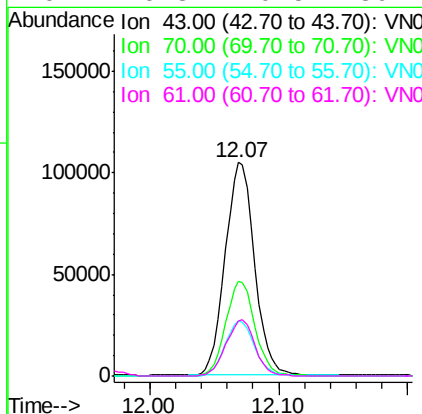
Manual Integrations
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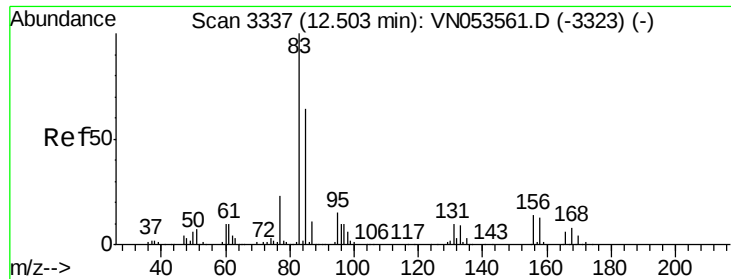
MMDadoda
2/11/2019 9:50:02 AM



#74
N-ethyl acetate
Concen: 21.350 ug/l
RT: 12.07 min Scan# 3202
Delta R.T. 0.00 min
Lab File: VN053689.D
Acq: 8 Feb 2019 18:38

Tgt Ion: 43 Resp: 165474
Ion Ratio Lower Upper
43 100
70 44.5 35.4 53.2
55 26.3 20.9 31.3
61 26.3 20.5 30.7





#75

1,1,2,2-Tetrachloroethane

Concen: 20.597 ug/l

RT: 12.51 min Scan# 3338

Delta R.T. 0.00 min

Lab File: VN053689.D

Acq: 8 Feb 2019 18:38

Instrument :

MSVOA_N

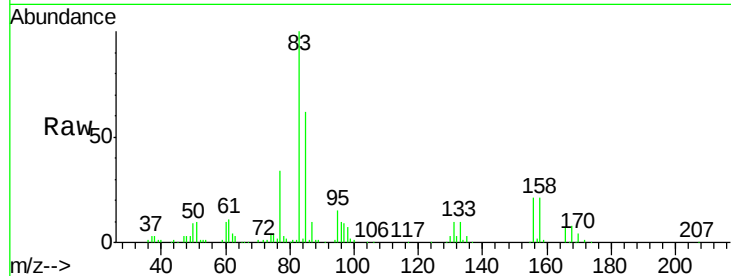
ClientSampleId :

VN0208MBSD01

Tot Ion:	83	Resp:	158877
Ion Ratio	Lower	Upper	
83	100		
131	10.4	5.3	15.8
85	63.8	32.1	96.3

Manual Integrations
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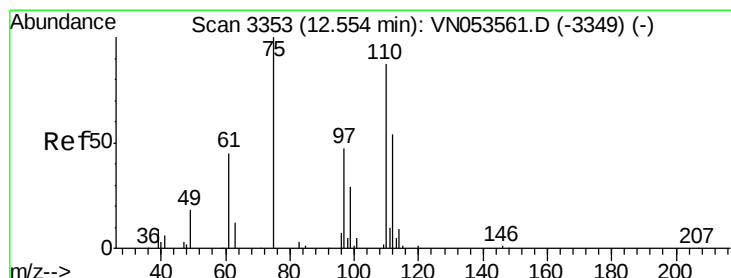
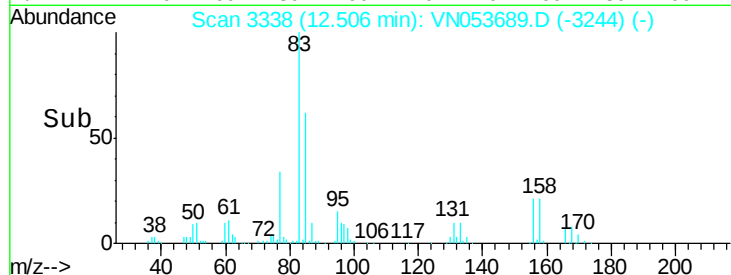
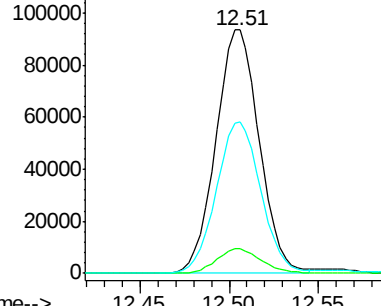
MMDadoda
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Abundance Ion 82.90 (82.60 to 83.60): VN053561.D (-3323) (-)

Ion 130.80 (130.50 to 131.50): VN053561.D (-3323) (-)

Ion 84.90 (84.60 to 85.60): VN053561.D (-3323) (-)



#76

1,2,3-Trichloropropane

Concen: 20.616 ug/l m

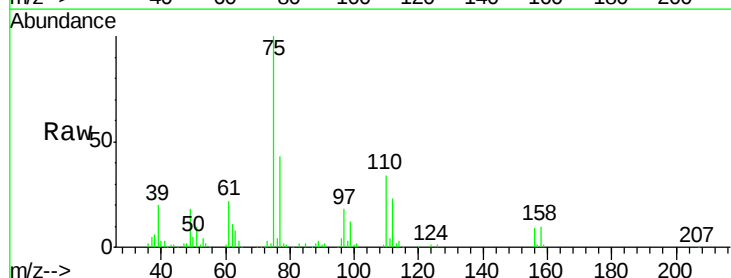
RT: 12.55 min Scan# 3353

Delta R.T. 0.00 min

Lab File: VN053689.D

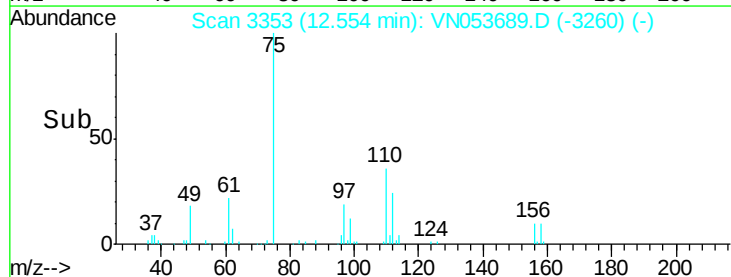
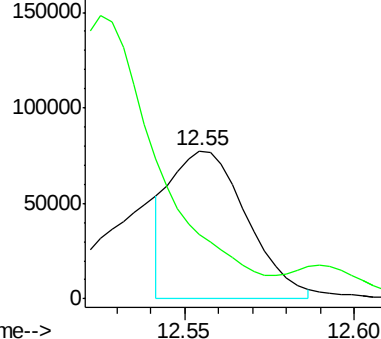
Acq: 8 Feb 2019 18:38

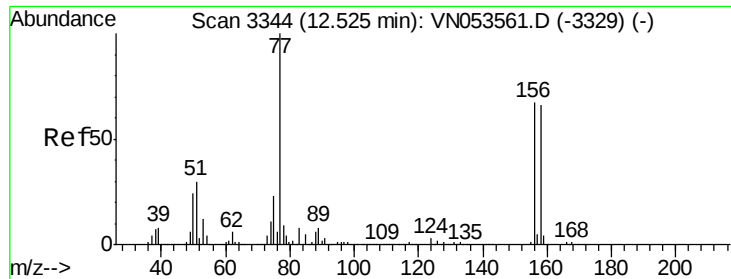
Tgt Ion:	75	Resp:	121407
Ion Ratio	Lower	Upper	
75	100		
77	0.0	0.0	0.0



Abundance Ion 74.90 (74.60 to 75.60): VN053561.D (-3349) (-)

Ion 77.00 (76.70 to 77.70): VN053561.D (-3349) (-)





#77

Bromobenzene

Concen: 19.937 ug/l

RT: 12.53 min Scan# 3344

Delta R.T. 0.00 min

Lab File: VN053689.D

Acq: 8 Feb 2019 18:38

Instrument :

MSVOA_N

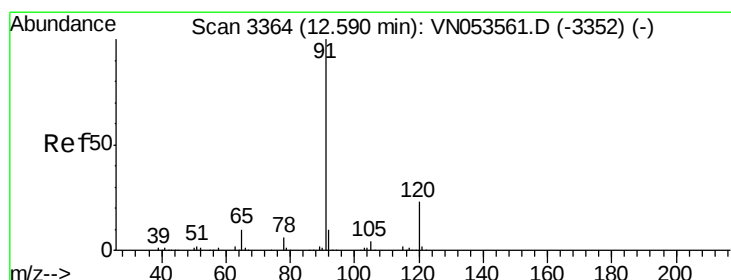
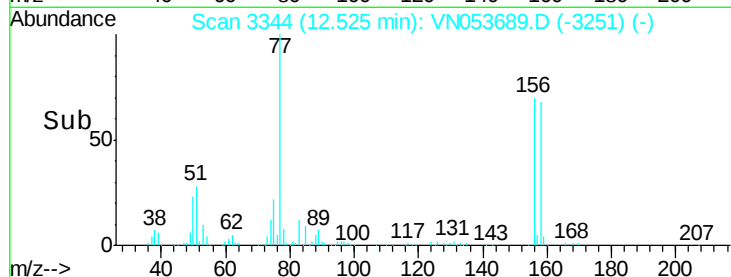
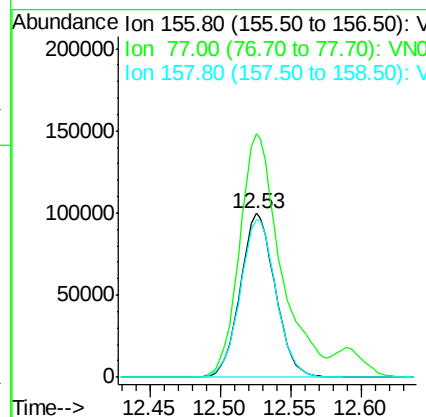
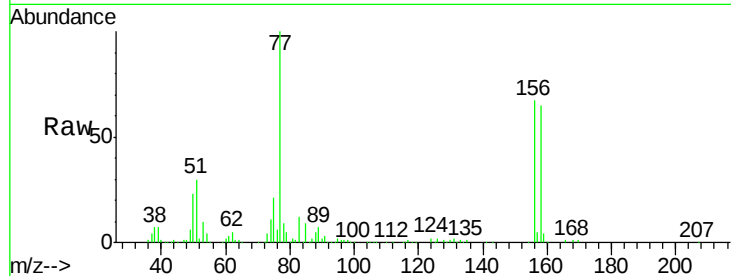
ClientSampleId :

VN0208MBS01

Tot Ion	Ratio	Lower	Upper
156	100		
77	174.8	87.9	263.8
158	98.4	48.8	146.4

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#78

n-propylbenzene

Concen: 20.158 ug/l

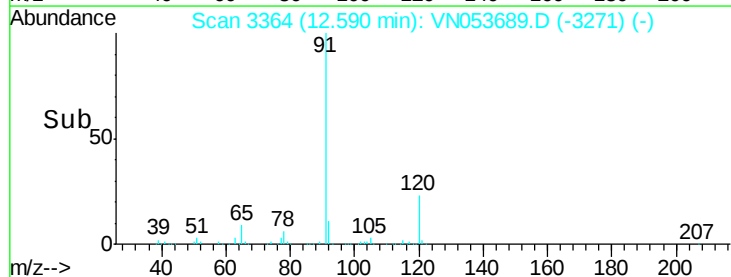
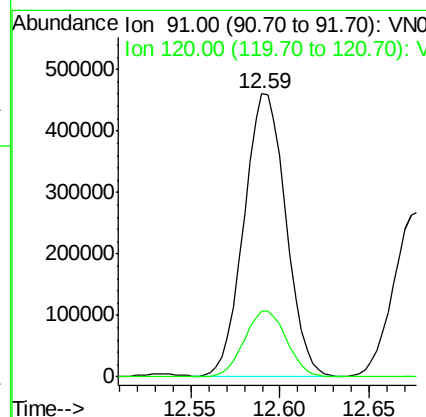
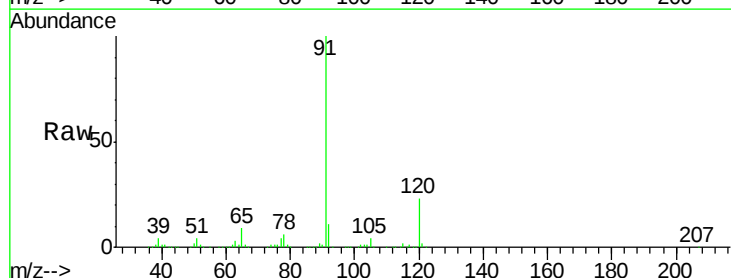
RT: 12.59 min Scan# 3364

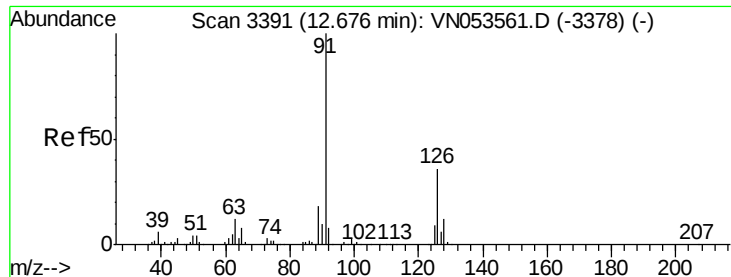
Delta R.T. 0.00 min

Lab File: VN053689.D

Acq: 8 Feb 2019 18:38

Tgt Ion	Ratio	Lower	Upper
91	100		
120	23.7	11.9	35.5





#79

2-Chlorotoluene

Concen: 20.335 ug/l

RT: 12.68 min Scan# 3391

Delta R.T. 0.00 min

Lab File: VN053689.D

Acq: 8 Feb 2019 18:38

Instrument :

MSVOA_N

ClientSampleId :

VN0208MBSD01

Tot Ion: 91 Resp: 449517

Ion Ratio Lower Upper

91 100

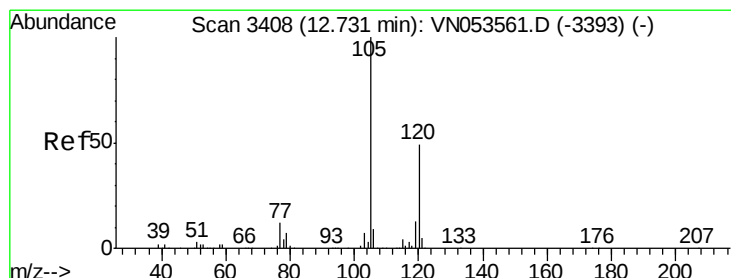
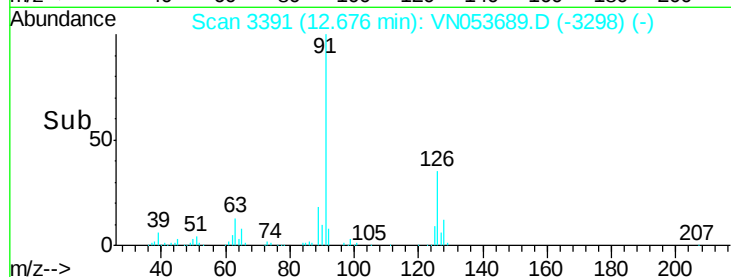
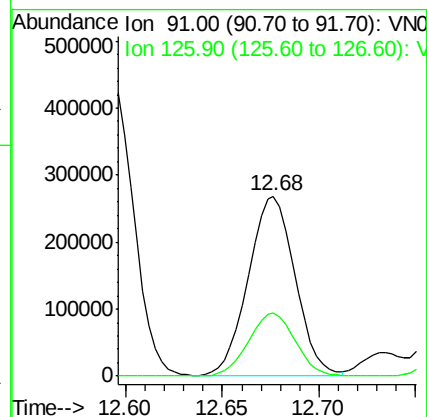
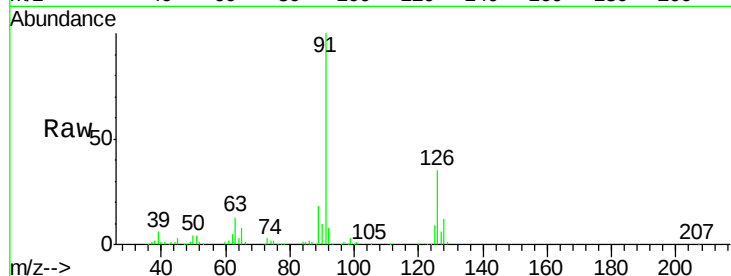
126 35.3 17.9 53.7

Manual Integrations

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#80

1,3,5-Trimethylbenzene

Concen: 21.158 ug/l

RT: 12.73 min Scan# 3409

Delta R.T. 0.00 min

Lab File: VN053689.D

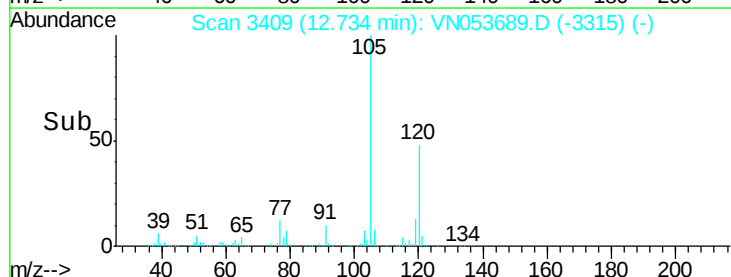
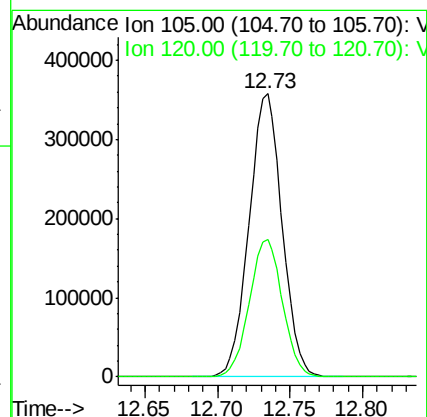
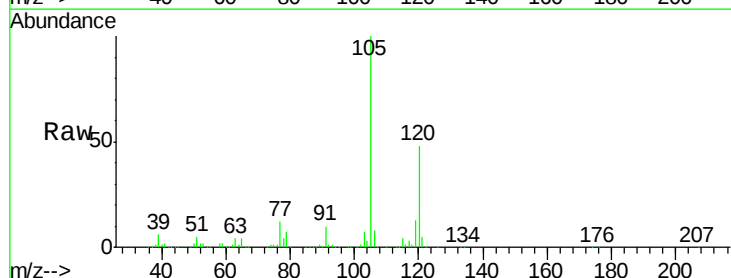
Acq: 8 Feb 2019 18:38

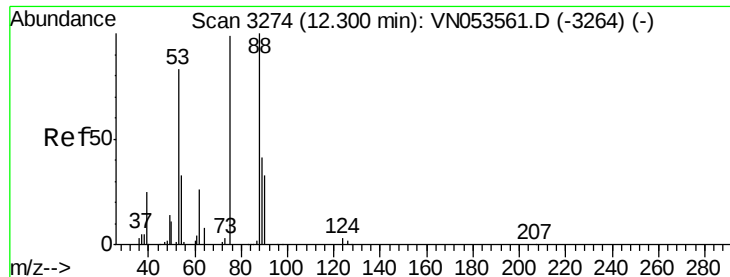
Tgt Ion: 105 Resp: 565500

Ion Ratio Lower Upper

105 100

120 48.8 24.9 74.6





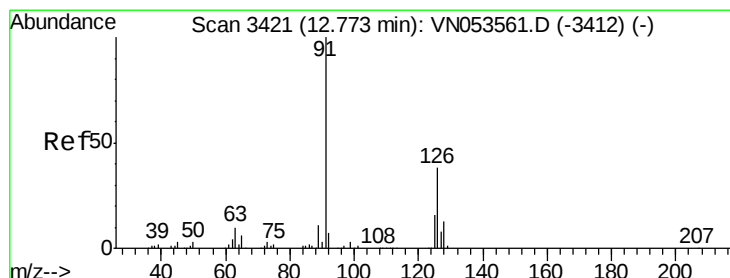
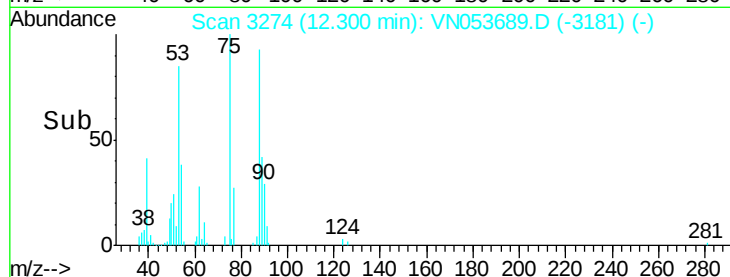
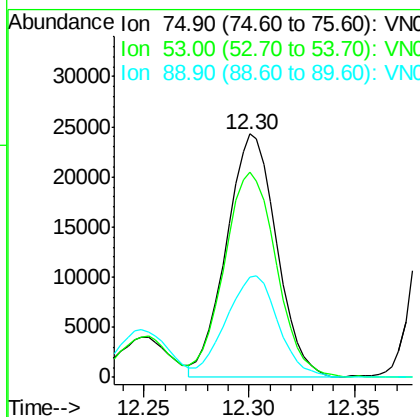
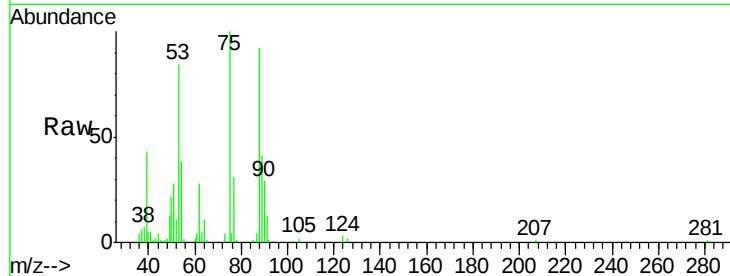
#81
trans-1,4-Dichloro-2-butene
Concen: 19.147 ug/l
RT: 12.30 min Scan# 3274
Delta R.T. 0.00 min
Lab File: VN053689.D
Acq: 8 Feb 2019 18:38

Instrument :
MSVOA_N
ClientSampleId :
VN0208MBSD01

Tot Ion	Ratio	Lower	Upper
75	100		
53	87.5	69.8	104.6
89	43.4	35.6	53.4

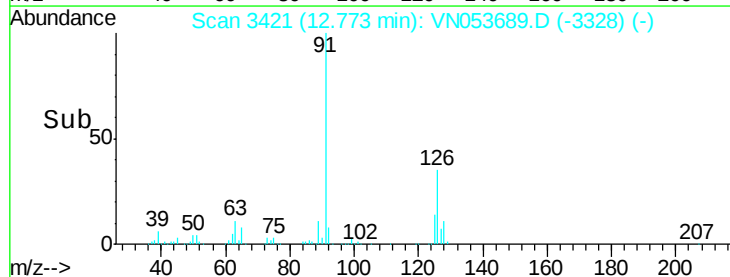
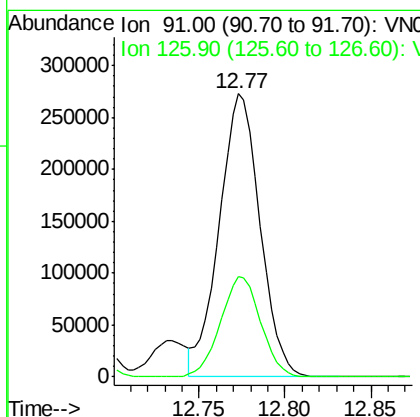
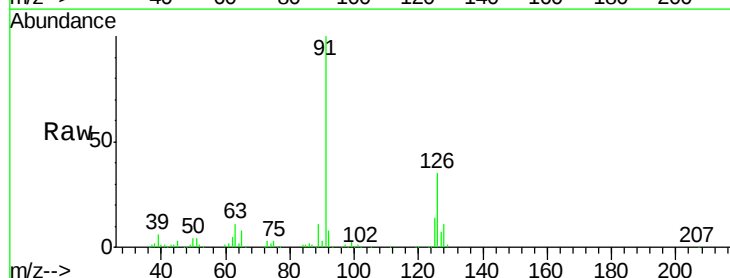
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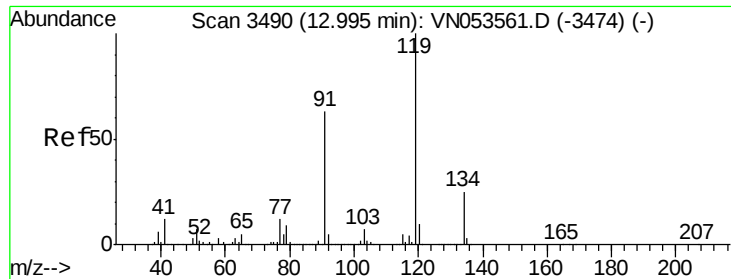
MMDadoda
2/11/2019 9:50:02 AM



#82
4-Chlorotoluene
Concen: 19.842 ug/l
RT: 12.77 min Scan# 3421
Delta R.T. 0.00 min
Lab File: VN053689.D
Acq: 8 Feb 2019 18:38

Tgt Ion	Ratio	Lower	Upper
91	100		
126	35.1	17.6	52.9





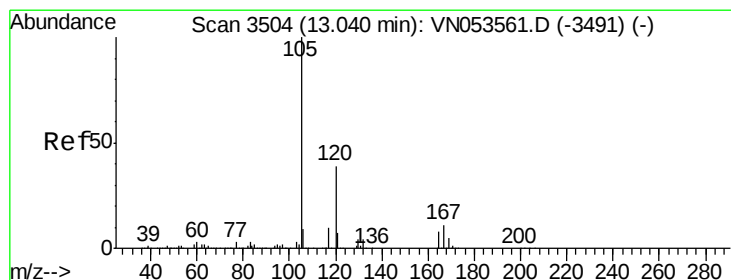
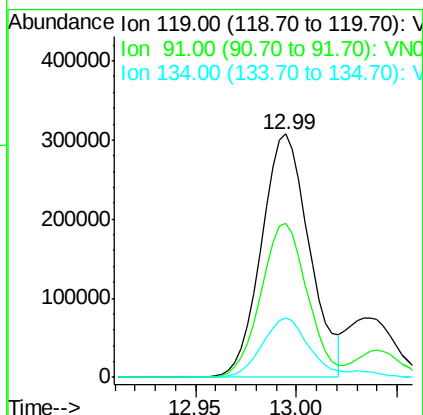
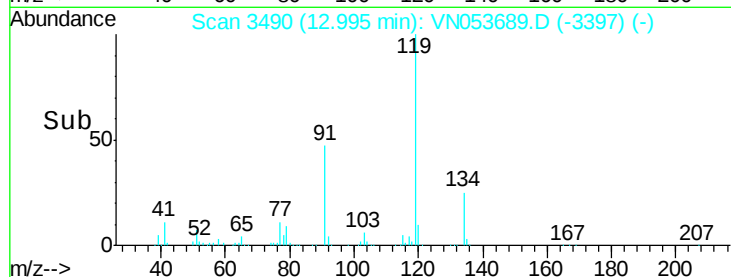
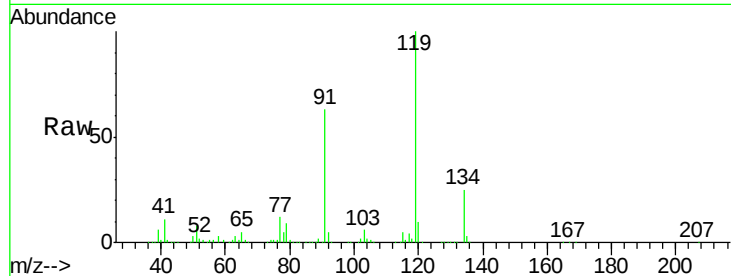
#83
tert-Butylbenzene
Concen: 21.570 ug/l
RT: 12.99 min Scan# 3490
Delta R.T. 0.00 min
Lab File: VN053689.D
Acq: 8 Feb 2019 18:38

Instrument :
MSVOA_N
ClientSampled :
VN0208MBSD01

Tot Ion	Ratio	Resp	Lower	Upper
119	100	509534		
91	61.7		31.3	93.8
134	25.5		12.9	38.7

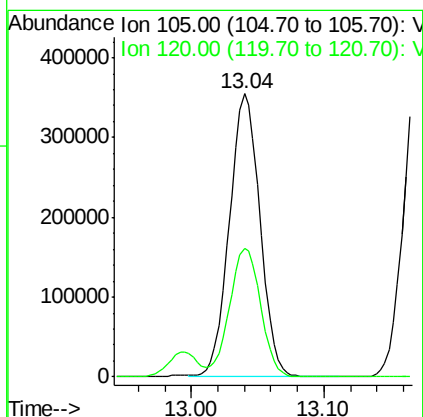
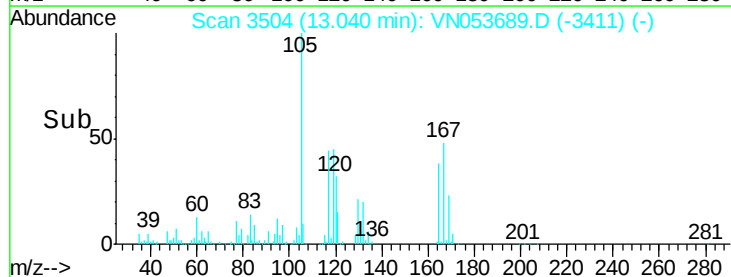
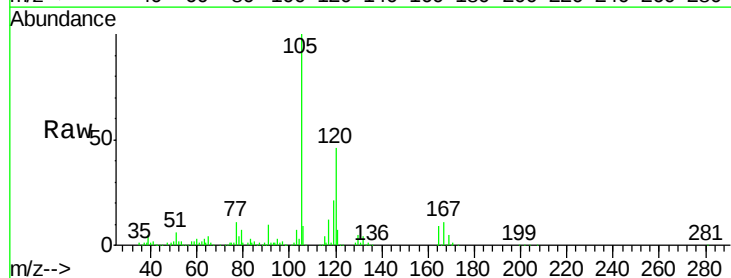
Manual Integrations
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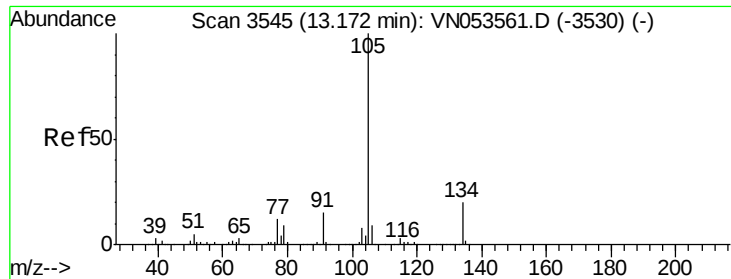
MMDadoda
2/11/2019 9:50:02 AM



#84
1,2,4-Trimethylbenzene
Concen: 20.859 ug/l
RT: 13.04 min Scan# 3504
Delta R.T. 0.00 min
Lab File: VN053689.D
Acq: 8 Feb 2019 18:38

Tgt Ion	Ratio	Resp	Lower	Upper
105	100	567993		
120	46.2		23.0	69.0





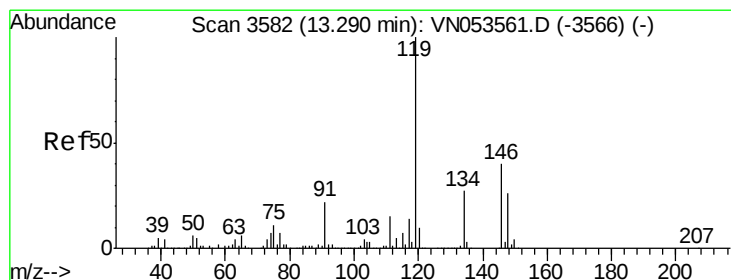
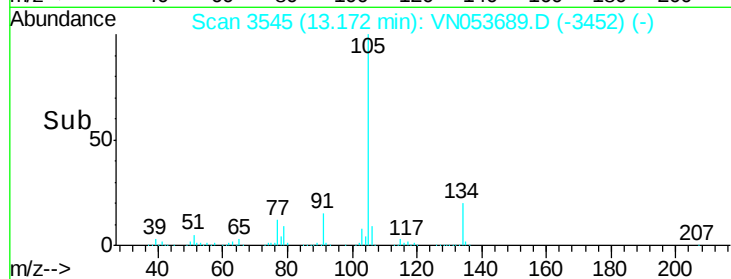
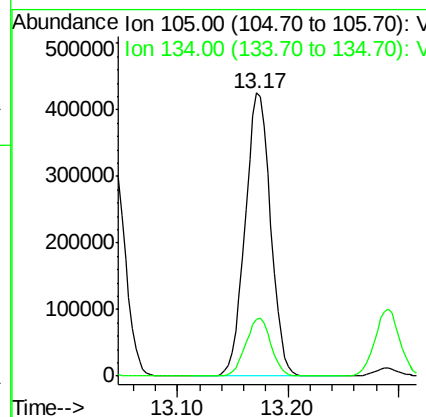
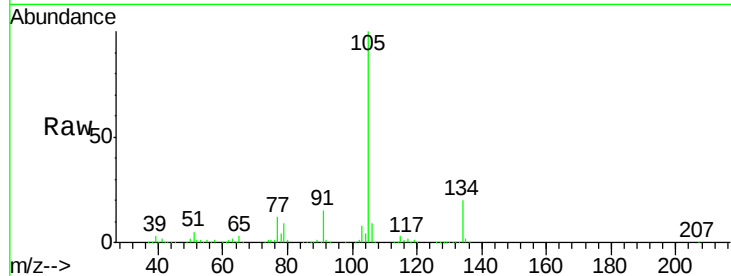
#85
 sec-Butylbenzene
 Concen: 21.040 ug/l
 RT: 13.17 min Scan# 3545
 Delta R.T. 0.00 min
 Lab File: VN053689.D
 Acq: 8 Feb 2019 18:38

Instrument :
 MSVOA_N
 ClientSampleId :
 VN0208MBSD01

Tot Ion	Ratio	Lower	Upper
105	100		
134	20.4	10.2	30.6

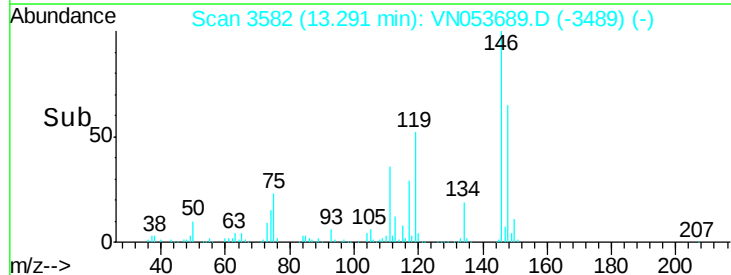
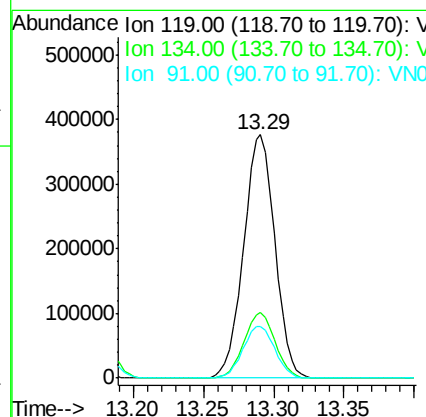
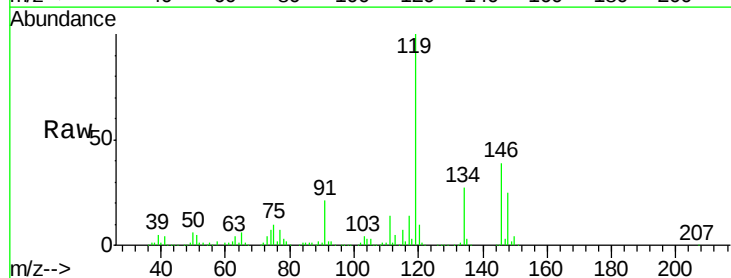
Manual Integrations
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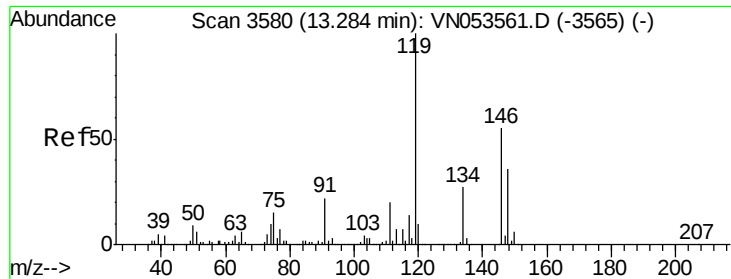
MMDadoda
 2/11/2019 9:50:02 AM



#86
 p-Isopropyltoluene
 Concen: 20.720 ug/l
 RT: 13.29 min Scan# 3582
 Delta R.T. 0.00 min
 Lab File: VN053689.D
 Acq: 8 Feb 2019 18:38

Tgt Ion	Ratio	Lower	Upper
119	100		
134	26.9	13.5	40.4
91	21.9	11.0	33.0





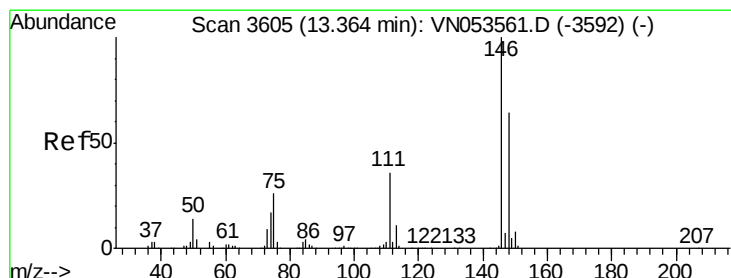
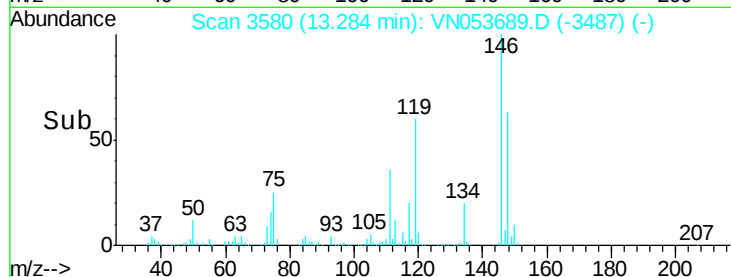
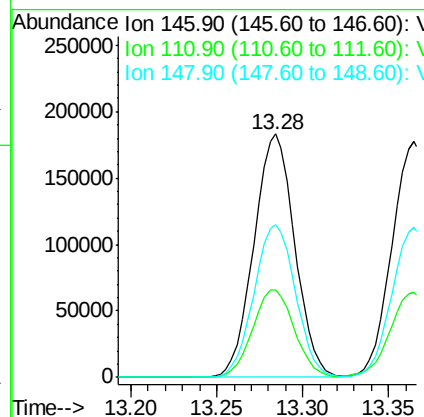
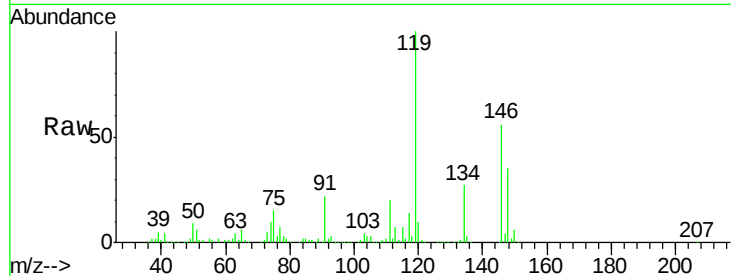
#87
 1,3-Dichlorobenzene
 Concen: 19.299 ug/l
 RT: 13.28 min Scan# 3580
 Delta R.T. 0.00 min
 Lab File: VN053689.D
 Acq: 8 Feb 2019 18:38

Instrument :
 MSVOA_N
 ClientSampleId :
 VN0208MBSD01

Tot Ion	Ratio	Resp	Lower	Upper
146	100	301350		
111	36.9	18.8	56.3	
148	63.9	32.0	96.2	

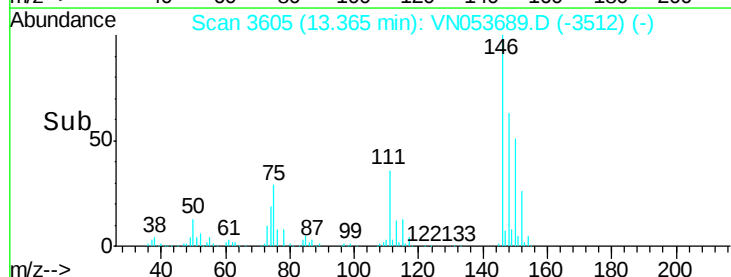
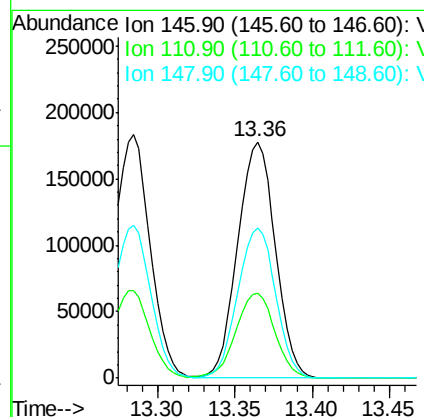
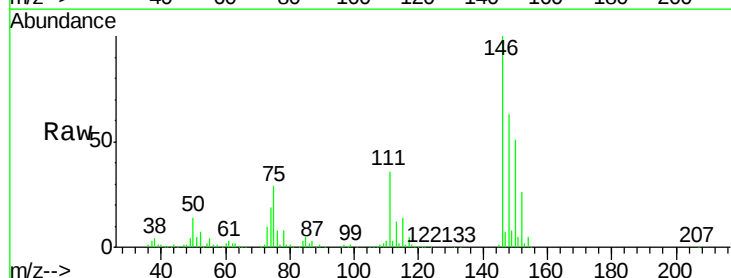
Manual Integrations
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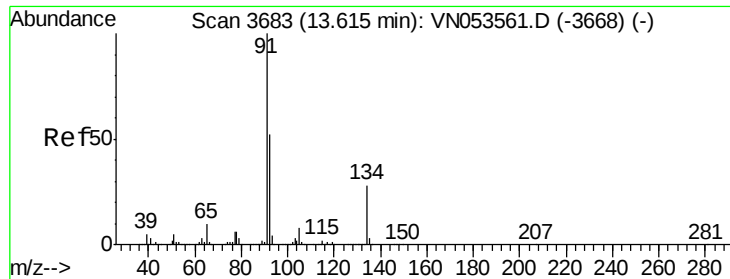
MMDadoda
 2/11/2019 9:50:02 AM



#88
 1,4-Dichlorobenzene
 Concen: 19.506 ug/l
 RT: 13.36 min Scan# 3605
 Delta R.T. 0.00 min
 Lab File: VN053689.D
 Acq: 8 Feb 2019 18:38

Tgt Ion	Ratio	Resp	Lower	Upper
146	100	301298		
111	37.2	18.6	55.8	
148	64.0	32.4	97.0	





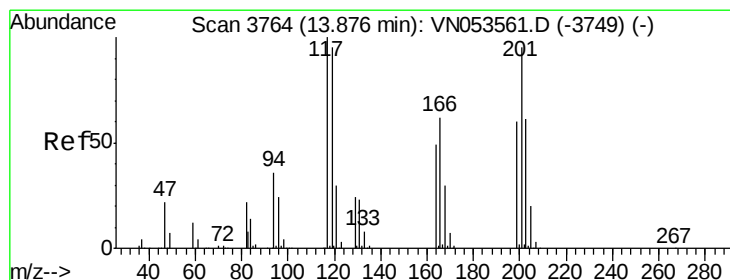
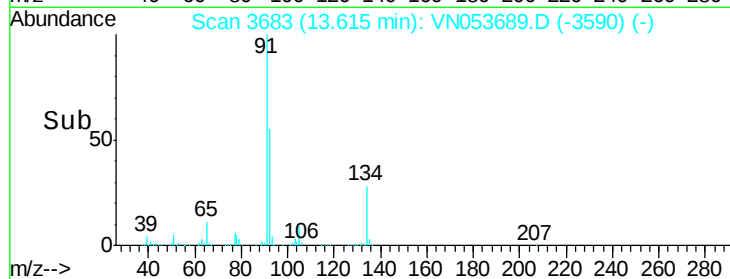
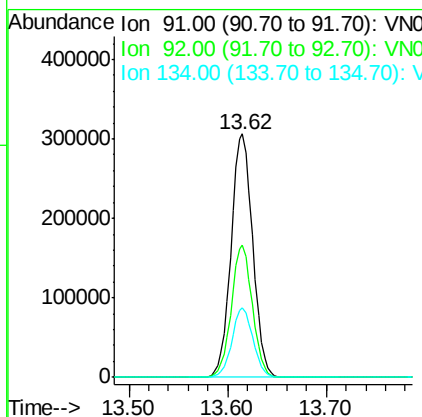
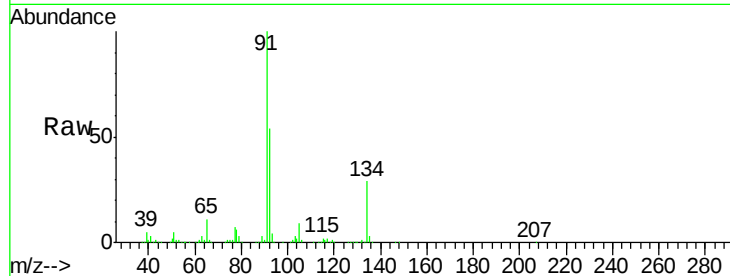
#89
n-Butylbenzene
Concen: 19.277 ug/l
RT: 13.62 min Scan# 3683
Delta R.T. 0.00 min
Lab File: VN053689.D
Acq: 8 Feb 2019 18:38

Instrument :
MSVOA_N
ClientSampleId :
VN0208MBSD01

Tot Ion	Ratio	Lower	Upper
91	100		
92	52.7	26.3	78.8
134	27.7	13.5	40.5

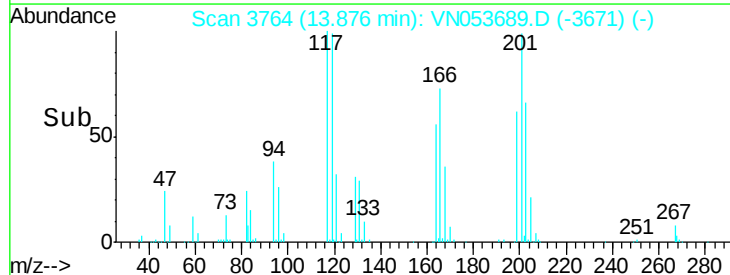
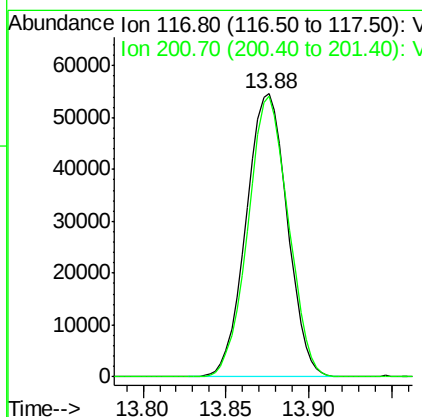
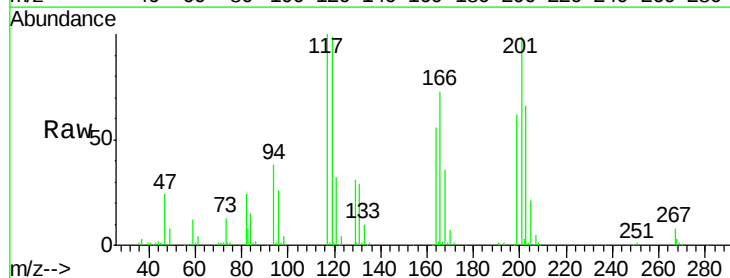
Manual Integrations
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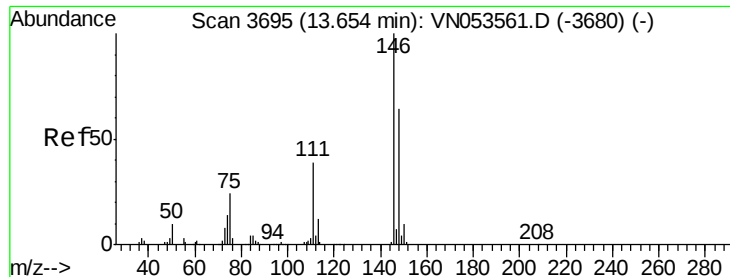
MMDadoda
2/11/2019 9:50:02 AM



#90
Hexachloroethane
Concen: 20.317 ug/l
RT: 13.88 min Scan# 3764
Delta R.T. 0.00 min
Lab File: VN053689.D
Acq: 8 Feb 2019 18:38

Tgt Ion	Ratio	Lower	Upper
117	100		
201	96.9	46.8	140.4





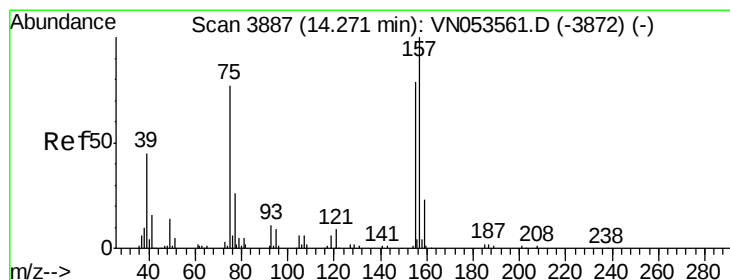
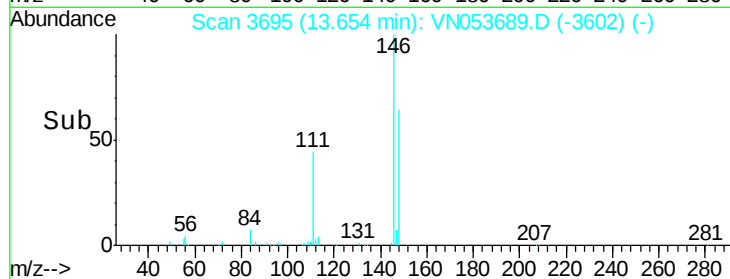
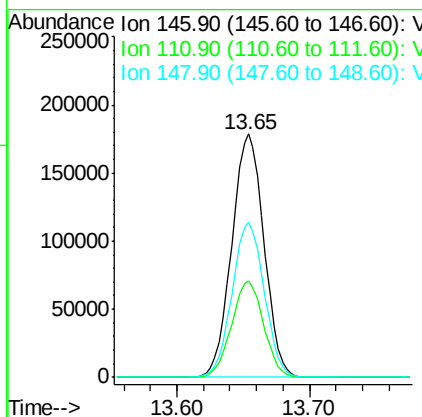
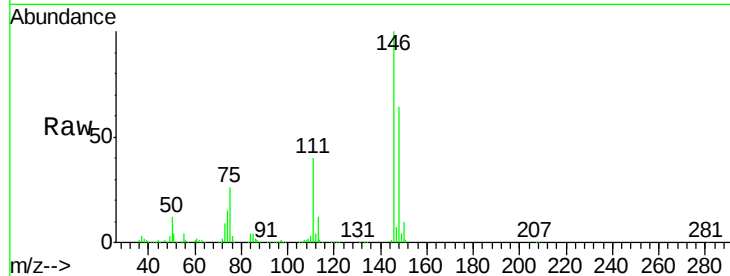
#91
 1,2-Dichlorobenzene
 Concen: 20.141 ug/l
 RT: 13.65 min Scan# 3695
 Delta R.T. 0.00 min
 Lab File: VN053689.D
 Acq: 8 Feb 2019 18:38

Instrument :
 MSVOA_N
 ClientSampleId :
 VN0208MBS01

Tot Ion	Ratio	Lower	Upper
146	100		
111	39.2	19.5	58.5
148	63.4	31.9	95.9

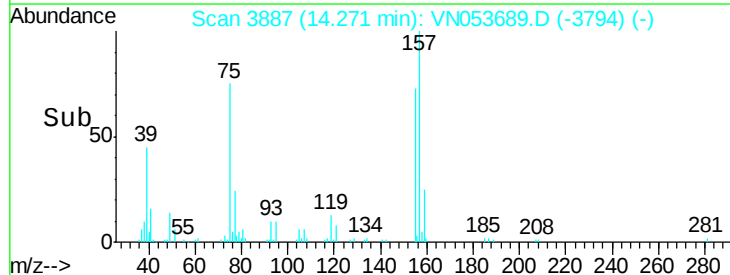
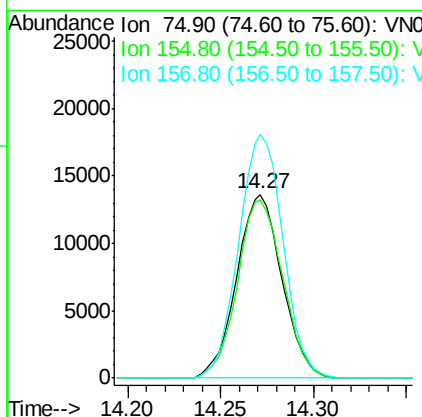
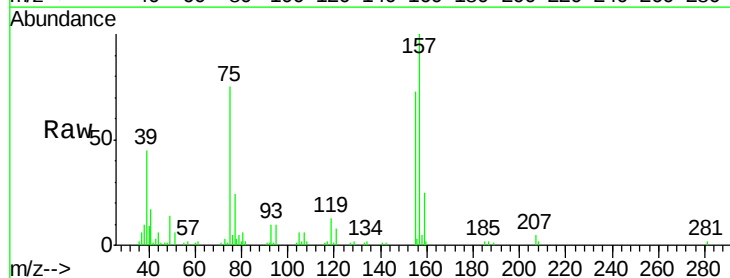
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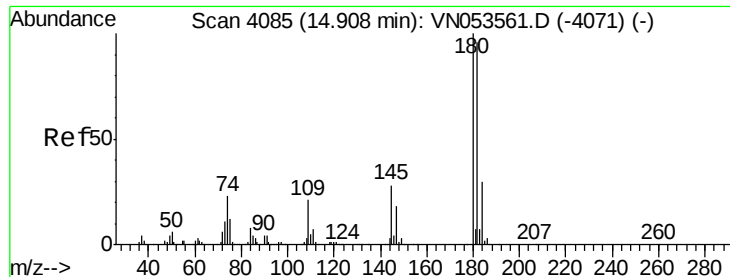
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#92
 1,2-Dibromo-3-Chloropropane
 Concen: 20.980 ug/l
 RT: 14.27 min Scan# 3887
 Delta R.T. 0.00 min
 Lab File: VN053689.D
 Acq: 8 Feb 2019 18:38

Tgt Ion	Ratio	Lower	Upper
75	100		
155	97.1	48.9	146.7
157	130.2	63.7	191.3





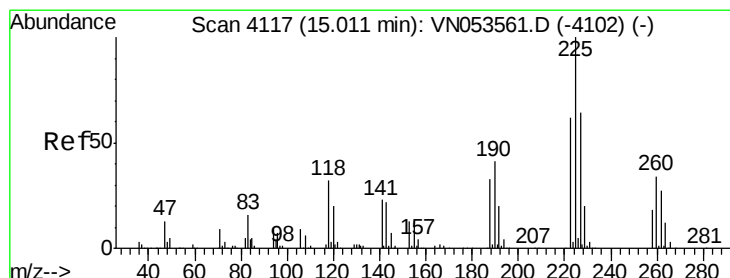
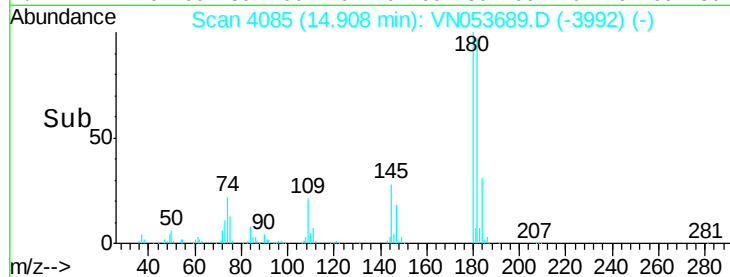
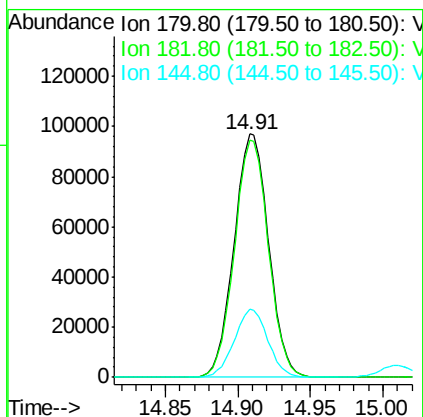
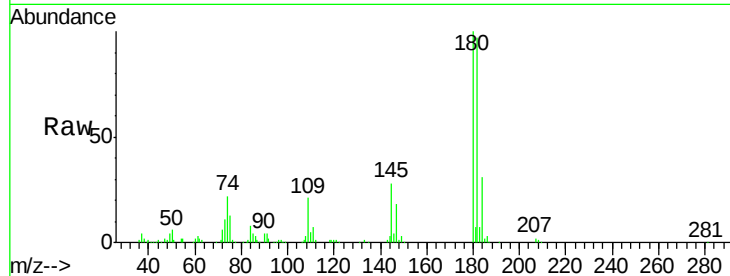
#93
 1,2,4-Trichlorobenzene
 Concen: 18.716 ug/l
 RT: 14.91 min Scan# 4085
 Delta R.T. 0.00 min
 Lab File: VN053689.D
 Acq: 8 Feb 2019 18:38

Instrument :
 MSVOA_N
 ClientSampleId :
 VN0208MBSD01

Tot Ion	Ratio	Resp	Lower	Upper
180	100	160463		
182	95.8	48.1	144.3	
145	27.1	13.9	41.6	

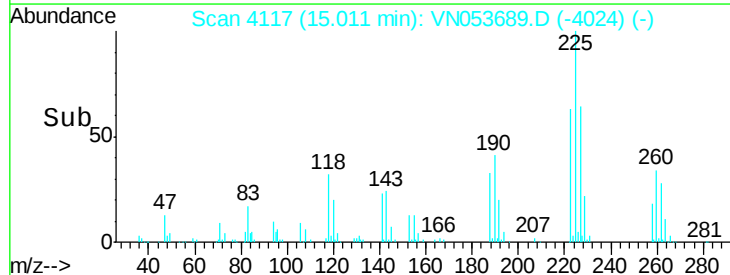
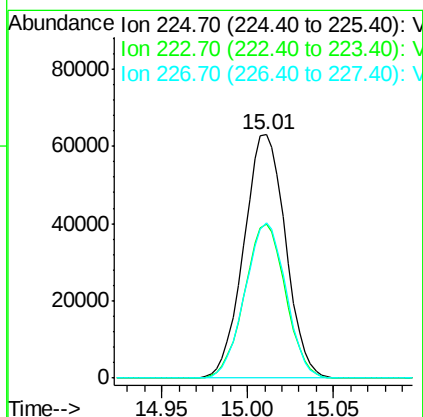
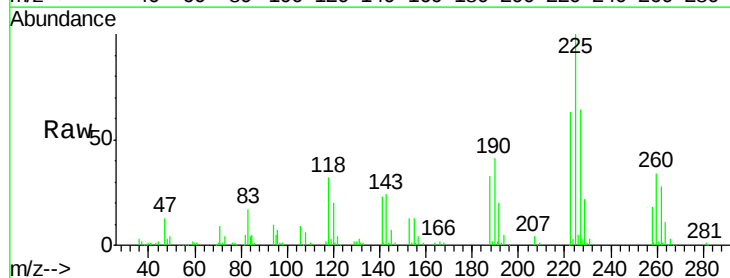
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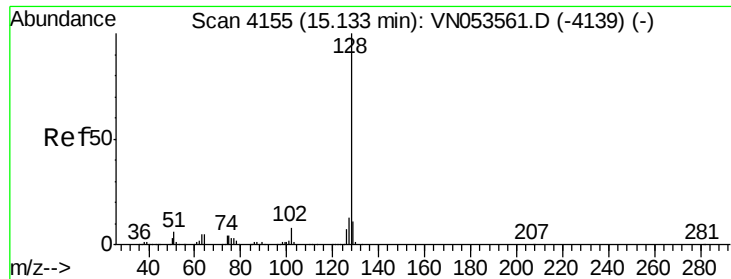
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#94
 Hexachlorobutadiene
 Concen: 19.844 ug/l
 RT: 15.01 min Scan# 4117
 Delta R.T. 0.00 min
 Lab File: VN053689.D
 Acq: 8 Feb 2019 18:38

Tgt Ion	Ratio	Resp	Lower	Upper
225	100	105954		
223	62.2	31.1	93.2	
227	62.7	32.0	96.2	





#95

Naphthalene

Concen: 18.321 ug/l

RT: 15.13 min Scan# 4155

Delta R.T. 0.00 min

Lab File: VN053689.D

Acq: 8 Feb 2019 18:38

Instrument :

MSVOA_N

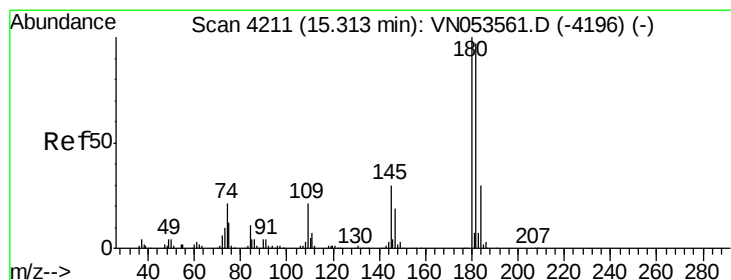
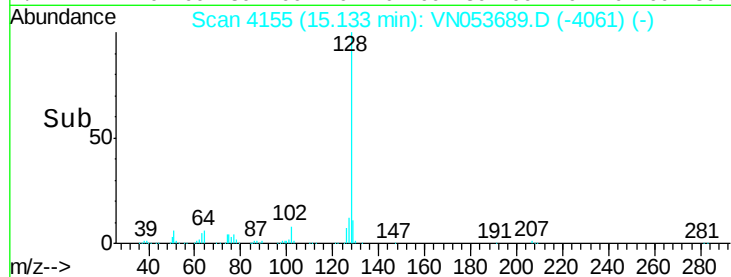
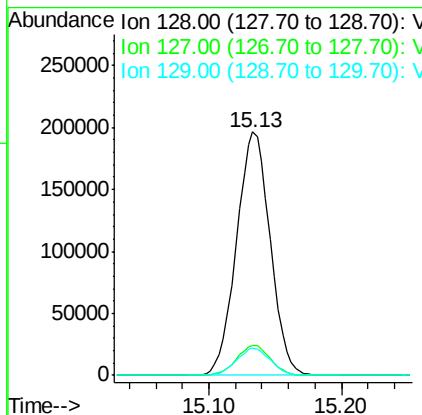
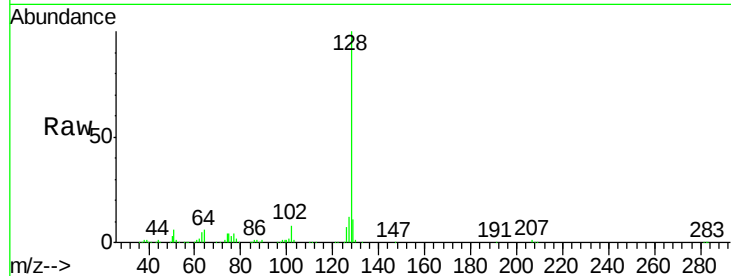
ClientSampleId :

VN0208MBSD01

Tot Ion:	128	Resp:	346045
Ion Ratio	Lower	Upper	
128	100		
127	12.4	10.3	15.5
129	11.1	8.6	13.0

Manual Integrations
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#96

1,2,3-Trichlorobenzene

Concen: 19.665 ug/l

RT: 15.32 min Scan# 4212

Delta R.T. 0.00 min

Lab File: VN053689.D

Acq: 8 Feb 2019 18:38

Tgt Ion:	180	Resp:	156444
Ion Ratio	Lower	Upper	
180	100		
182	94.2	47.9	143.8
145	30.5	14.7	44.1

