

Data Path : Z:\VOASRV\HPCHEM1\MSVOA N\DATA\VN042020\
 Data File : VN061115.D
 Acq On : 20 Apr 2020 20:23
 Operator : JC/MD
 Sample : L2330-14MSD
 Misc : 5.00mL/MSVOA N/WATER
 ALS Vial : 26 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 PA-TWP-2MSD

Manual Integrations
 APPROVED

MMDadoda
 4/21/2020 12:00:16 PM

Quant Time: Apr 21 06:38:40 2020
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_N\METHODS\82N041620W.M
 Quant Title : SW846 8260
 QLast Update : Fri Apr 17 03:49:39 2020
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	7.64	168	143887	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	8.56	114	245986	50.00	ug/l	0.00
63) Chlorobenzene-d5	11.40	117	223391	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.34	152	99967	50.00	ug/l	0.00

System Monitoring Compounds

33) 1,2-Dichloroethane-d4	8.00	65	89969	48.87	ug/l	0.00
Spiked Amount	50.000		Recovery	=	97.74%	
35) Dibromofluoromethane	7.56	113	69733	48.54	ug/l	0.00
Spiked Amount	50.000		Recovery	=	97.08%	
50) Toluene-d8	10.08	98	250463	46.14	ug/l	0.00
Spiked Amount	50.000		Recovery	=	92.28%	
62) 4-Bromofluorobenzene	12.39	95	96947	45.57	ug/l	0.00
Spiked Amount	50.000		Recovery	=	91.14%	

Target Compounds

						Qvalue
2) Dichlorodifluoromethane	1.83	85	95577	50.254	ug/l	99
3) Chloromethane	2.04	50	128798	50.470	ug/l	100
4) Vinyl Chloride	2.17	62	106923	50.418	ug/l	99
5) Bromomethane	2.55	94	54365	51.118	ug/l	100
6) Chloroethane	2.69	64	64774	52.948	ug/l	98
7) Trichlorofluoromethane	3.00	101	137689	52.150	ug/l	100
8) Diethyl Ether	3.38	74	53678	51.153	ug/l	100
9) 1,1,2-Trichlorotrifluoroet	3.74	101	75798	48.932	ug/l	99
10) Methyl Iodide	3.93	142	70391	51.510	ug/l	100
11) Tert butyl alcohol	4.72	59	67245	205.874	ug/l	99
12) 1,1-Dichloroethene	3.72	96	79698	50.615	ug/l	98
13) Acrolein	3.57	56	65578	237.783	ug/l	99
14) Allyl chloride	4.29	41	142122	47.704	ug/l	98
15) Acrylonitrile	4.94	53	228150	257.616	ug/l	99
16) Acetone	3.78	43	182510	225.240	ug/l	100
17) Carbon Disulfide	4.03	76	246938	50.118	ug/l	99
18) Methyl Acetate	4.28	43	122453	48.193	ug/l	99
19) Methyl tert-butyl Ether	5.00	73	277519	50.547	ug/l	96
20) Methylene Chloride	4.52	84	90962	51.416	ug/l	96
21) trans-1,2-Dichloroethene	5.01	96	86694	51.477	ug/l	98
22) Diisopropyl ether	5.91	45	319664	51.663	ug/l	98
23) Vinyl Acetate	5.86	43	1173940	241.945	ug/l	100
24) 1,1-Dichloroethane	5.82	63	170414	50.994	ug/l	99
25) 2-Butanone	6.80	43	297944	239.955	ug/l	100
26) 2,2-Dichloropropane	6.80	77	125589	45.135	ug/l	100
27) cis-1,2-Dichloroethene	6.80	96	99114	51.262	ug/l	98
28) Bromochloromethane	7.17	49	78224	50.993	ug/l	100
29) Tetrahydrofuran	7.18	42	204353	242.425	ug/l	99
30) Chloroform	7.34	83	163433	52.432	ug/l	99
31) Cyclohexane	7.63	56	154028	44.916	ug/l	99
32) 1,1,1-Trichloroethane	7.54	97	138677	51.435	ug/l	99
36) 1,1-Dichloropropene	7.77	75	125488	49.437	ug/l	100
37) Ethyl Acetate	6.89	43	126231	45.798	ug/l	100
38) Carbon Tetrachloride	7.75	117	112367	53.182	ug/l	98

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Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
39) Methylcyclohexane	9.06	83	131605	43.366	ug/l	99
40) Benzene	8.02	78	376412	49.985	ug/l	100
41) Methacrylonitrile	7.14	41	55774m	48.515	ug/l	
42) 1,2-Dichloroethane	8.10	62	131204	51.146	ug/l	100
43) Isopropyl Acetate	8.14	43	216289	48.250	ug/l	100
44) Trichloroethene	8.81	130	91693	48.459	ug/l	99
45) 1,2-Dichloropropane	9.10	63	102088	50.191	ug/l	98
46) Dibromomethane	9.19	93	61786	52.686	ug/l	100
47) Bromodichloromethane	9.38	83	128164	51.733	ug/l	98
48) Methyl methacrylate	9.18	41	100020	50.490	ug/l	98
49) 1,4-Dioxane	9.18	88	21049	768.463	ug/l	96
51) 4-Methyl-2-Pentanone	9.97	43	641883	248.395	ug/l	100
52) Toluene	10.14	92	224179	49.623	ug/l	97
53) t-1,3-Dichloropropene	10.37	75	144792	50.315	ug/l	100
54) cis-1,3-Dichloropropene	9.82	75	154413	49.179	ug/l	99
55) 1,1,2-Trichloroethane	10.55	97	87335	51.085	ug/l	98
56) Ethyl methacrylate	10.42	69	138814	51.636	ug/l	99
57) 1,3-Dichloropropane	10.70	76	155383	50.954	ug/l	99
59) 2-Hexanone	10.74	43	464231	249.102	ug/l	99
60) Dibromochloromethane	10.89	129	92005	52.389	ug/l	100
61) 1,2-Dibromoethane	10.99	107	89360	51.295	ug/l	98
64) Tetrachloroethene	10.62	164	82956	48.529	ug/l	99
65) Chlorobenzene	11.42	112	228629	49.577	ug/l	100
66) 1,1,1,2-Tetrachloroethane	11.50	131	83422	50.562	ug/l	100
67) Ethyl Benzene	11.50	91	422789	48.739	ug/l	99
68) m/p-Xylenes	11.61	106	309069	98.586	ug/l	100
69) o-Xylene	11.94	106	147598	48.967	ug/l	100
70) Stvrene	11.96	104	248572	51.224	ug/l	99
71) Bromoform	12.12	173	65104	52.864	ug/l #	99
73) Isopropylbenzene	12.24	105	388268	48.480	ug/l	99
74) N-amyl acetate	12.06	43	181274	48.672	ug/l	99
75) 1,1,2,2-Tetrachloroethane	12.50	83	125436	51.308	ug/l	100
76) 1,2,3-Trichloropropane	12.55	75	110879m	50.426	ug/l	
77) Bromobenzene	12.52	156	93876	50.203	ug/l	100
78) n-propylbenzene	12.59	91	455105	48.570	ug/l	100
79) 2-Chlorotoluene	12.67	91	270352	49.194	ug/l	99
80) 1,3,5-Trimethylbenzene	12.73	105	321314	48.538	ug/l	100
81) trans-1,4-Dichloro-2-buten	12.29	75	41389	46.428	ug/l	98
82) 4-Chlorotoluene	12.77	91	283539	49.746	ug/l	100
83) tert-Butylbenzene	12.99	119	261817	47.028	ug/l	100
84) 1,2,4-Trimethylbenzene	13.03	105	323430	49.427	ug/l	99
85) sec-Butylbenzene	13.17	105	352639	46.749	ug/l	100
86) p-Isopropyltoluene	13.28	119	312230	46.483	ug/l	100
87) 1,3-Dichlorobenzene	13.28	146	163988	49.209	ug/l	99
88) 1,4-Dichlorobenzene	13.36	146	162008	48.324	ug/l	100
89) n-Butylbenzene	13.61	91	282016	45.149	ug/l	99
90) Hexachloroethane	13.87	117	48766	47.320	ug/l	100
91) 1,2-Dichlorobenzene	13.65	146	157602	49.551	ug/l	99
92) 1,2-Dibromo-3-Chloropropan	14.26	75	24725	52.257	ug/l	97
93) 1,2,4-Trichlorobenzene	14.90	180	88991	47.272	ug/l	100

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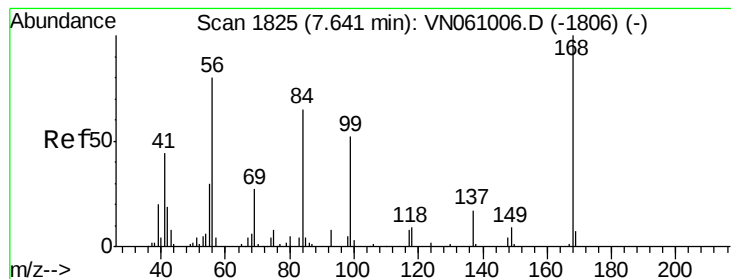
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Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
94) Hexachlorobutadiene	15.00	225	39177	40.454	ug/l	99
95) Naphthalene	15.13	128	280028	51.005	ug/l	100
96) 1,2,3-Trichlorobenzene	15.31	180	86418	47.634	ug/l	100

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



#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 7.64 min Scan# 1825

Delta R.T. 0.00 min

Lab File: VN061115.D

Acq: 20 Apr 2020 20:23

Instrument :

MSVOA_N

ClientSampleId :

PA-TWP-2MSD

Tot Ion:168 Resp: 143887

Ion Ratio Lower Upper

168 100

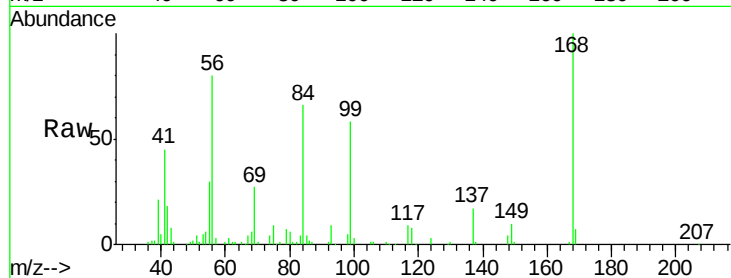
99 58.0 47.4 71.2

Manual Integrations

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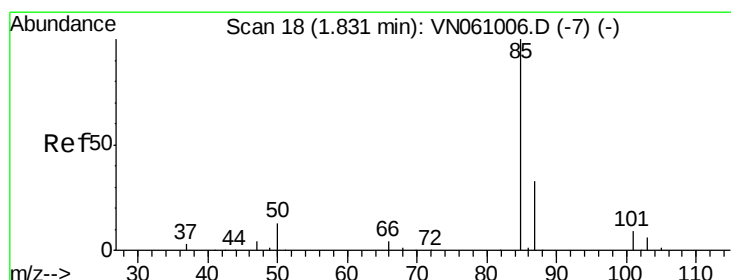
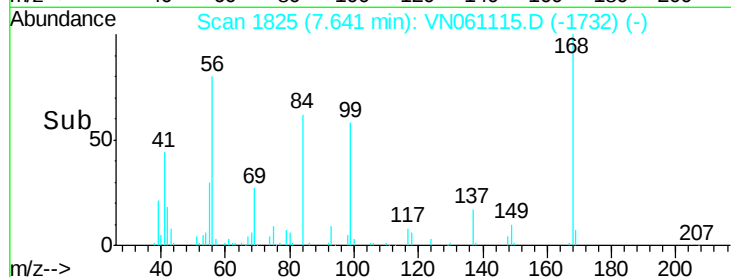
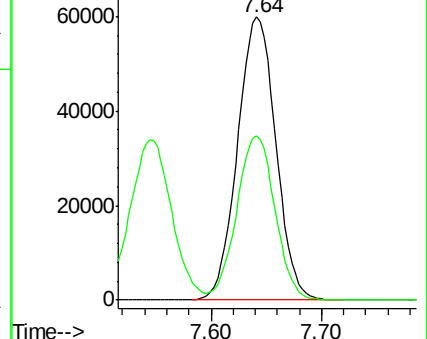
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Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VN



#2

Dichlorodifluoromethane

Concen: 50.254 ug/l

RT: 1.83 min Scan# 18

Delta R.T. 0.00 min

Lab File: VN061115.D

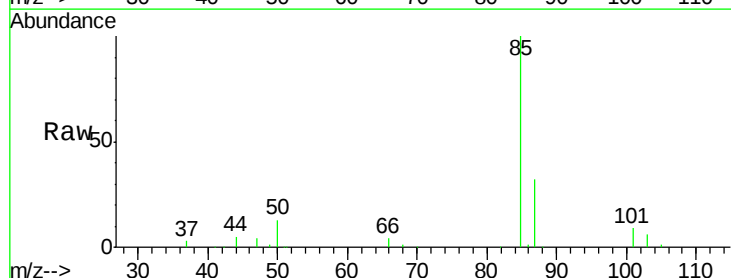
Acq: 20 Apr 2020 20:23

Tgt Ion: 85 Resp: 95577

Ion Ratio Lower Upper

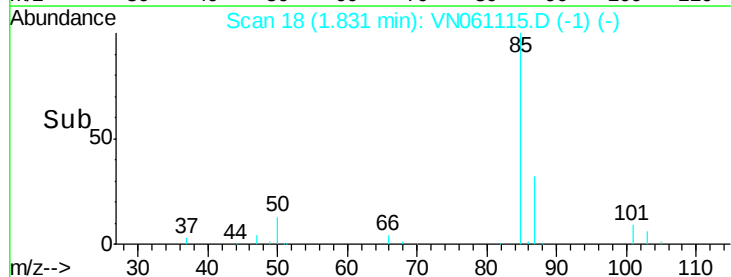
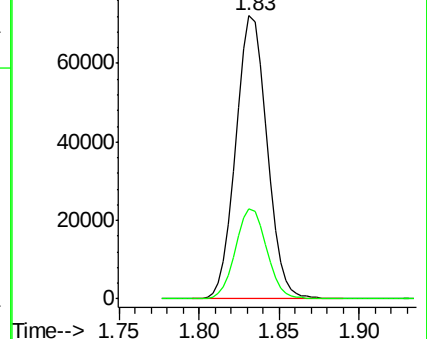
85 100

87 32.1 16.3 48.9



Abundance Ion 84.90 (84.60 to 85.60): VN

Ion 86.90 (86.60 to 87.60): VN





#3

Chloromethane

Concen: 50.470 ug/l

RT: 2.04 min Scan# 82

Delta R.T. 0.00 min

Lab File: VN061115.D

Acq: 20 Apr 2020 20:23

Instrument :

MSVOA_N

ClientSampleId :

PA-TWP-2MSD

Tot Ion: 50 Resp: 128798

Ion Ratio Lower Upper

50 100

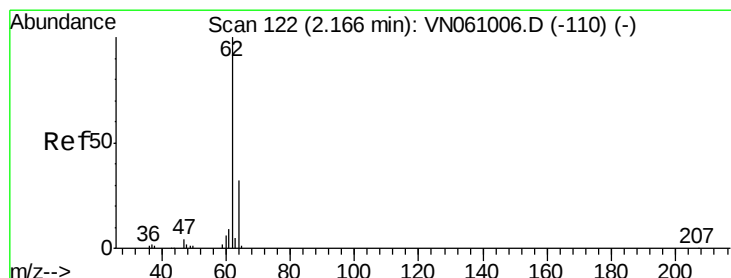
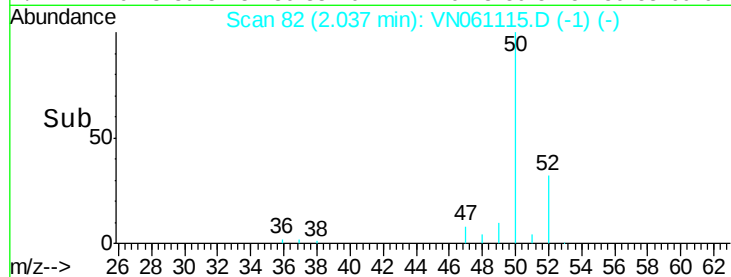
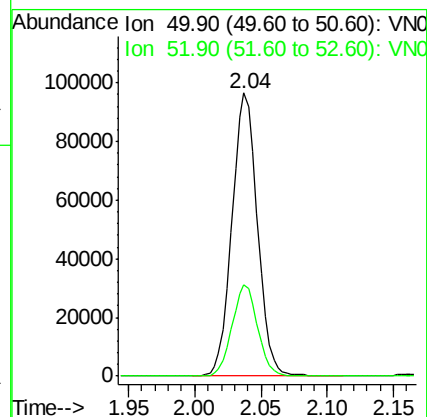
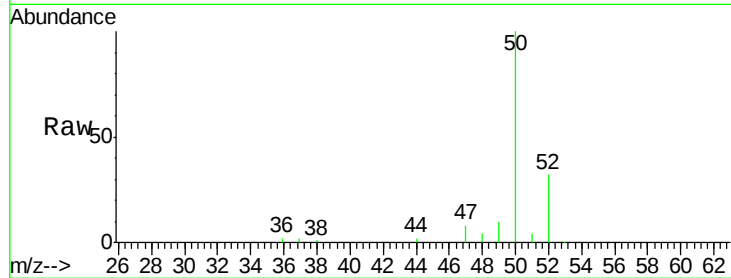
52 32.3 25.6 38.4

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#4

Vinyl Chloride

Concen: 50.418 ug/l

RT: 2.17 min Scan# 122

Delta R.T. 0.00 min

Lab File: VN061115.D

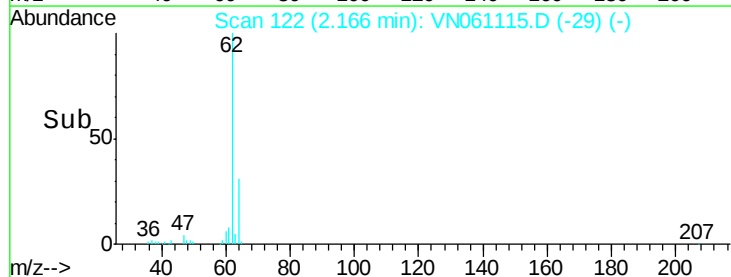
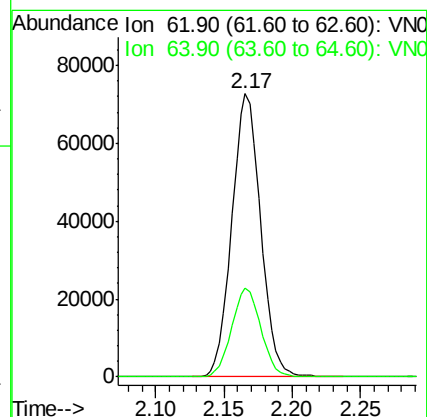
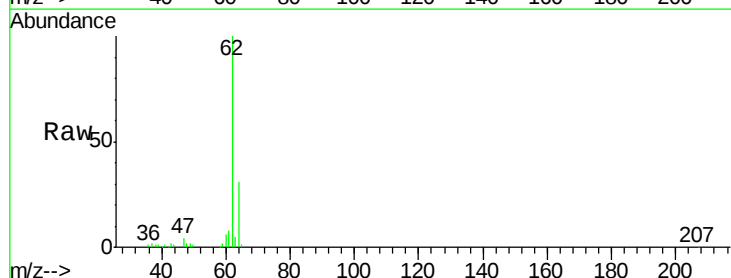
Acq: 20 Apr 2020 20:23

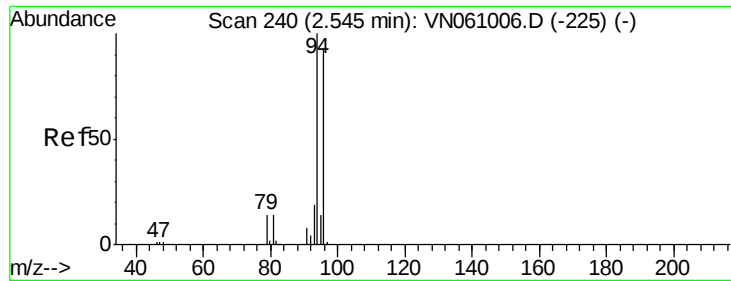
Tgt Ion: 62 Resp: 106923

Ion Ratio Lower Upper

62 100

64 31.2 25.4 38.0





#5

Bromomethane

Concen: 51.118 ug/l

RT: 2.55 min Scan# 241

Delta R.T. 0.00 min

Lab File: VN061115.D

Acq: 20 Apr 2020 20:23

Instrument :

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PA-TWP-2MSD

Tot Ion: 94 Resp: 54365

Ion Ratio Lower Upper

94 100

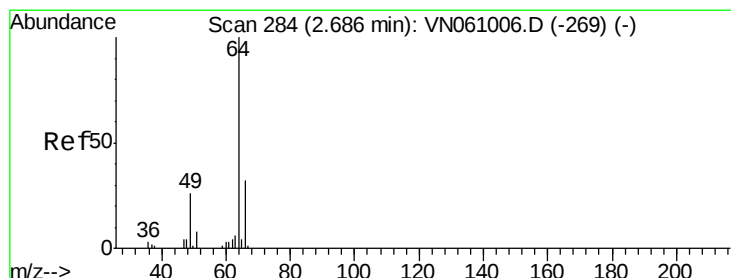
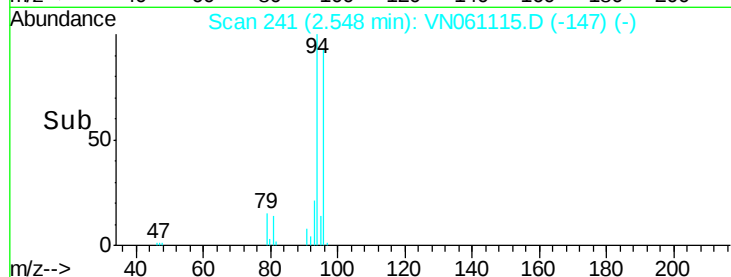
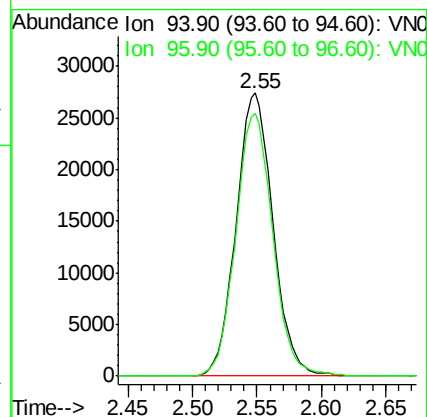
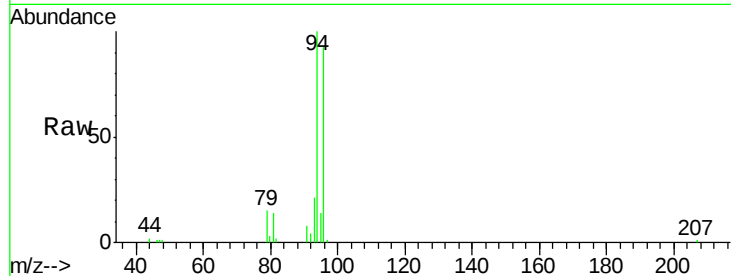
96 93.0 74.3 111.5

Manual Integrations

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#6

Chloroethane

Concen: 52.948 ug/l

RT: 2.69 min Scan# 284

Delta R.T. 0.00 min

Lab File: VN061115.D

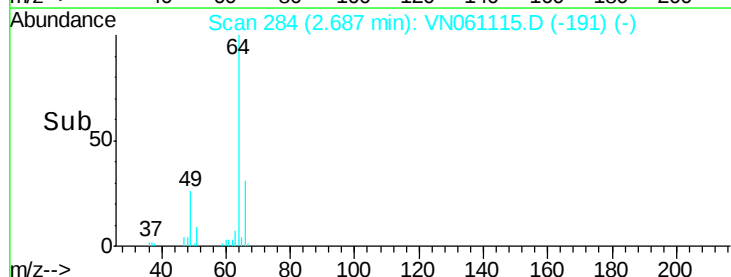
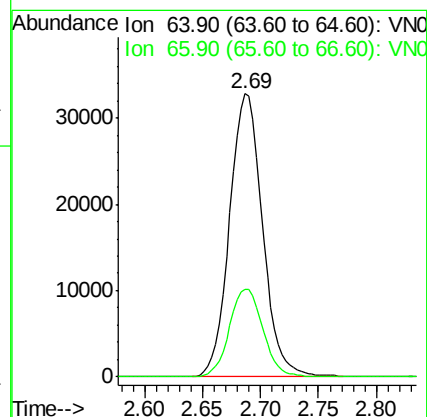
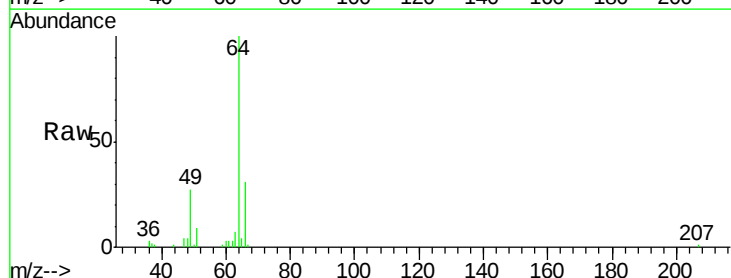
Acq: 20 Apr 2020 20:23

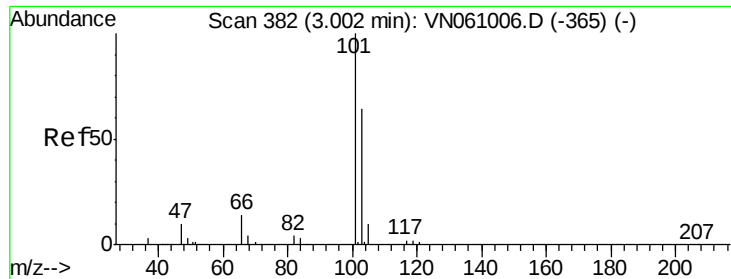
Tgt Ion: 64 Resp: 64774

Ion Ratio Lower Upper

64 100

66 31.0 25.8 38.8





#7

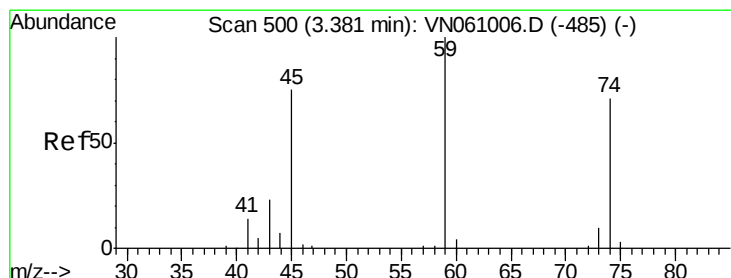
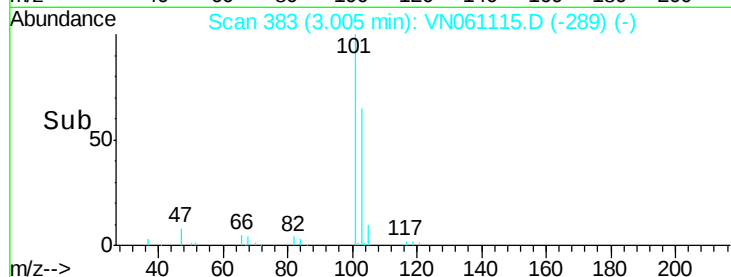
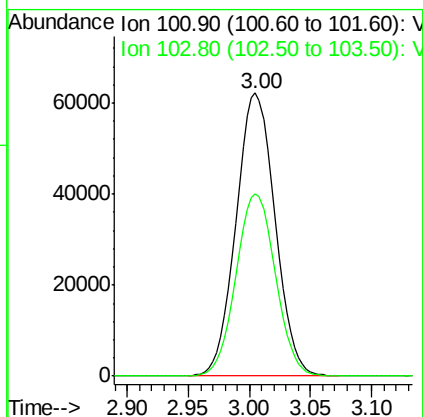
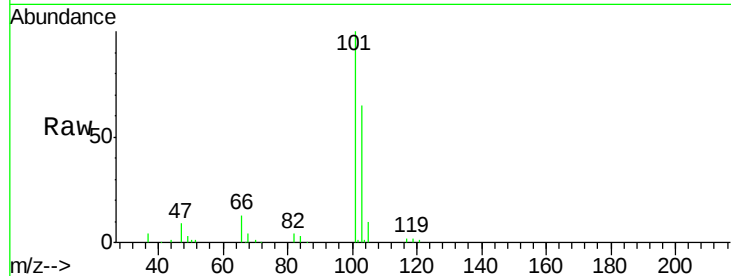
Trichlorofluoromethane
Concen: 52.150 ug/l
RT: 3.00 min Scan# 383
Delta R.T. 0.00 min
Lab File: VN061115.D
Acq: 20 Apr 2020 20:23

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Tot Ion	Ion	Ratio	Resp	Lower	Upper
101	100		137689		
103	64.5	51.4	77.2		

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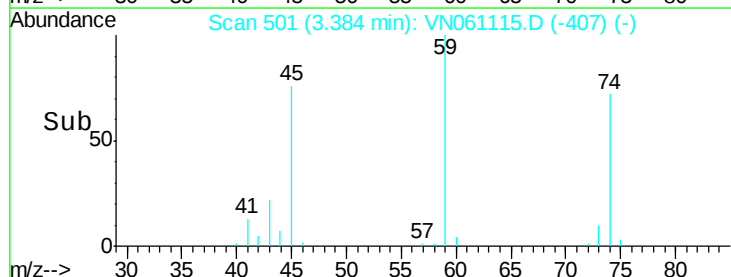
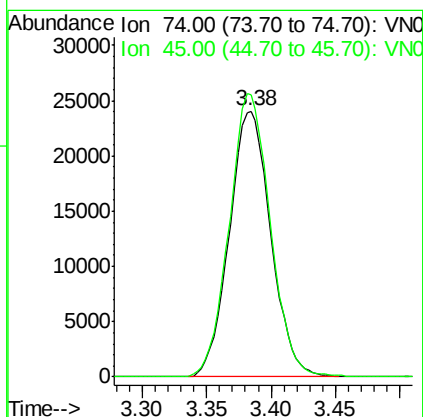
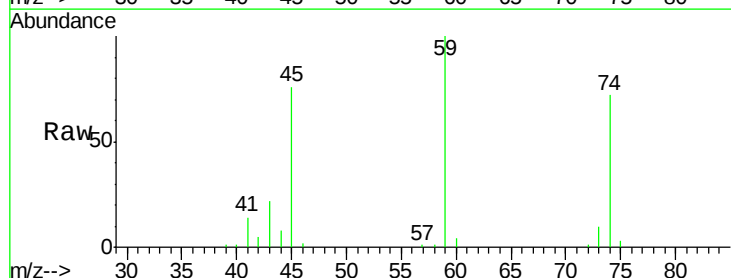
MMDadoda
4/21/2020 12:00:16 PM

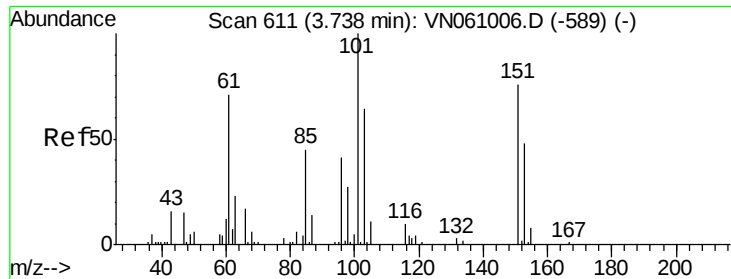


#8

Diethyl Ether
Concen: 51.153 ug/l
RT: 3.38 min Scan# 501
Delta R.T. 0.00 min
Lab File: VN061115.D
Acq: 20 Apr 2020 20:23

Tgt Ion	Ion	Ratio	Resp	Lower	Upper
74	100		53678		
45	105.9	52.9	158.8		





#9

1,1,2-Trichlorotrifluoroethane

Concen: 48.932 ug/l

RT: 3.74 min Scan# 611

Delta R.T. 0.00 min

Lab File: VN061115.D

Acq: 20 Apr 2020 20:23

Instrument :

MSVOA_N

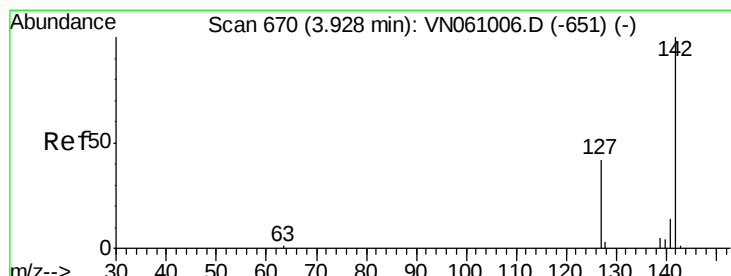
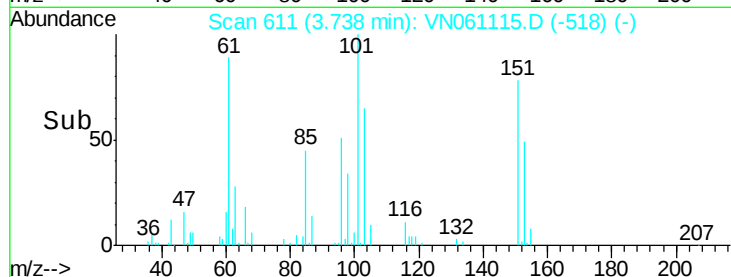
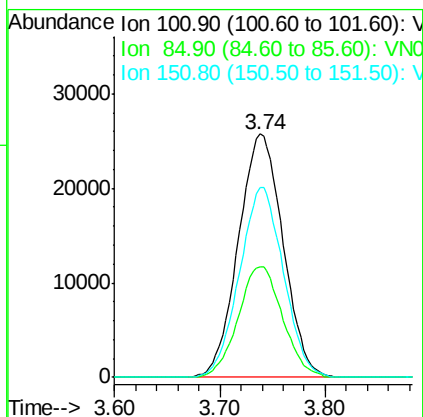
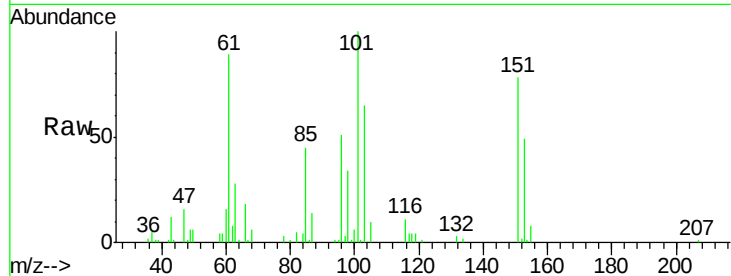
ClientSampleId :

PA-TWP-2MSD

Tot Ion:	101	Resp:	75798
Ion Ratio	Lower	Upper	
101	100		
85	45.2	35.9	53.9
151	76.9	60.8	91.2

Manual Integrations
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#10

Methyl Iodide

Concen: 51.510 ug/l

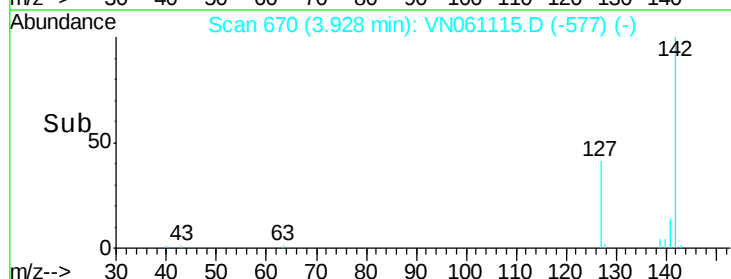
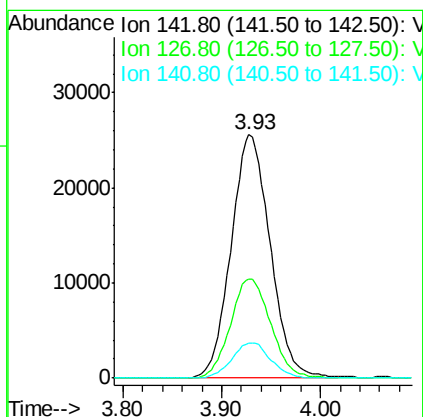
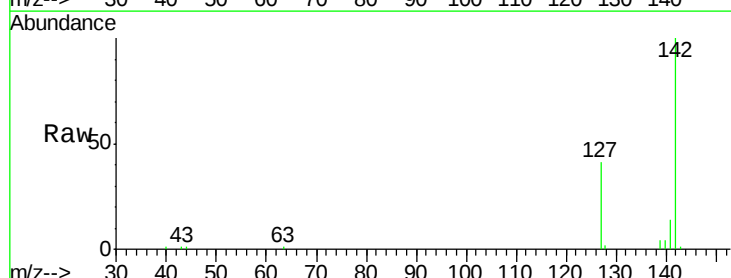
RT: 3.93 min Scan# 670

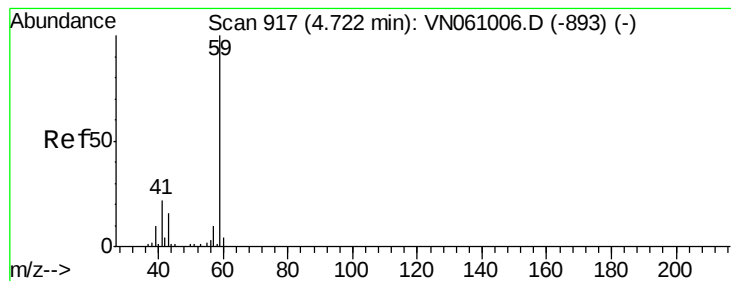
Delta R.T. 0.00 min

Lab File: VN061115.D

Acq: 20 Apr 2020 20:23

Tgt Ion:	142	Resp:	70391
Ion Ratio	Lower	Upper	
142	100		
127	42.0	33.4	50.2
141	14.2	11.0	16.6





#11

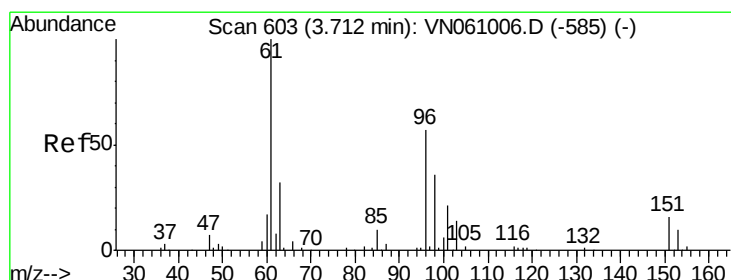
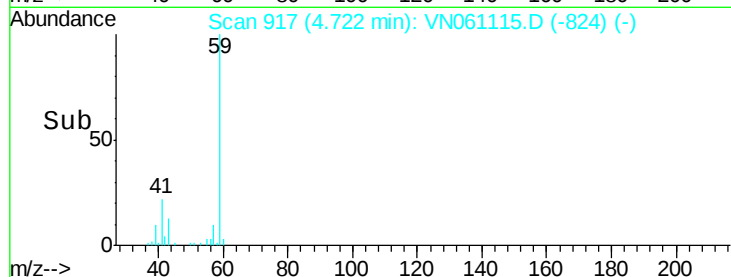
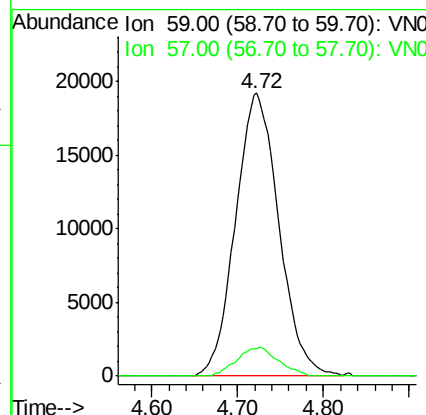
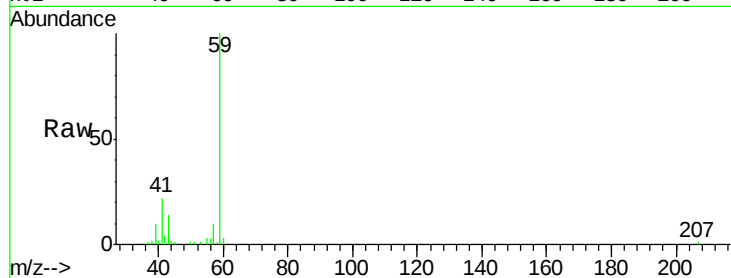
Tert butyl alcohol
Concen: 205.874 ug/l
RT: 4.72 min Scan# 917
Delta R.T. 0.00 min
Lab File: VN061115.D
Acq: 20 Apr 2020 20:23

Instrument :
MSVOA_N
ClientSampleId :
PA-TWP-2MSD

Tot Ion	Ratio	Lower	Upper
59	100		
57	9.8	8.1	12.1

Manual Integrations
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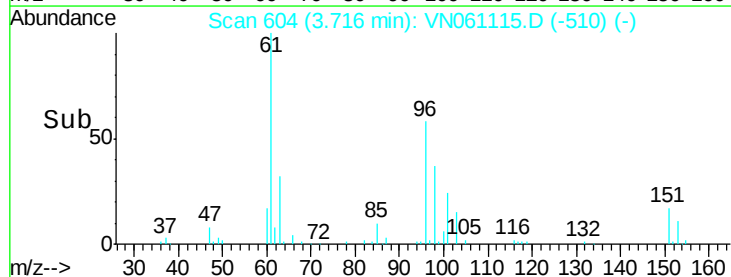
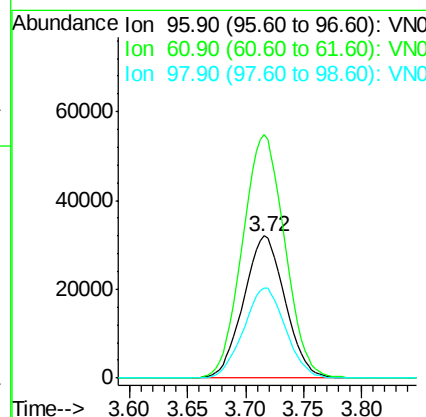
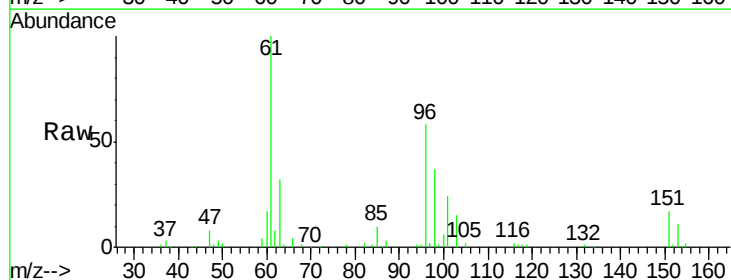
MMDadoda
4/21/2020 12:00:16 PM



#12

1,1-Dichloroethene
Concen: 50.615 ug/l
RT: 3.72 min Scan# 604
Delta R.T. 0.00 min
Lab File: VN061115.D
Acq: 20 Apr 2020 20:23

Tgt Ion	Ratio	Lower	Upper
96	100		
61	171.6	139.2	208.8
98	63.8	50.0	75.0





#13

Acrolein

Concen: 237.783 ug/l

RT: 3.57 min Scan# 560

Delta R.T. 0.00 min

Lab File: VN061115.D

Acq: 20 Apr 2020 20:23

Instrument :

MSVOA_N

ClientSampleId :

PA-TWP-2MSD

Tot Ion: 56 Resp: 65578

Ion Ratio Lower Upper

56 100

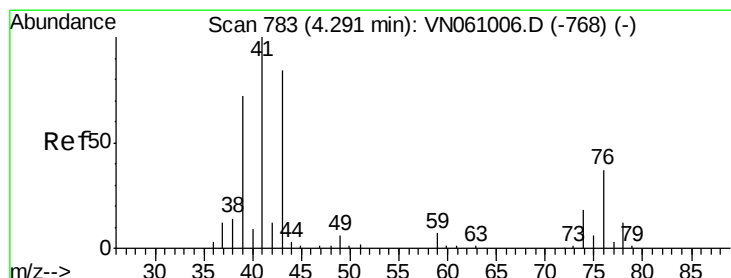
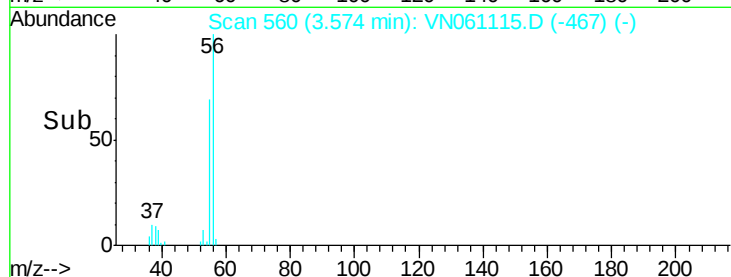
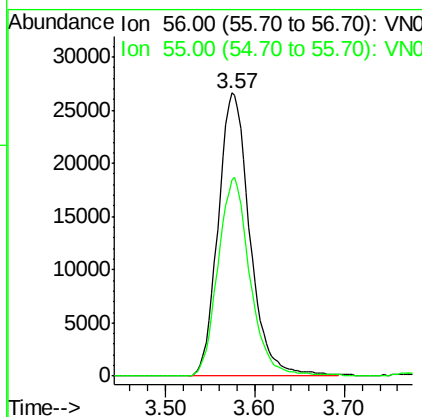
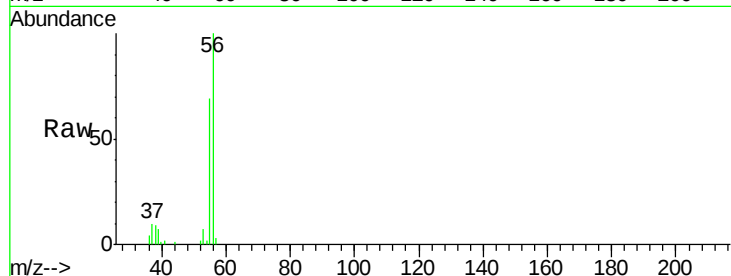
55 70.4 57.0 85.6

Manual Integrations

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#14

Allyl chloride

Concen: 47.704 ug/l

RT: 4.29 min Scan# 784

Delta R.T. 0.00 min

Lab File: VN061115.D

Acq: 20 Apr 2020 20:23

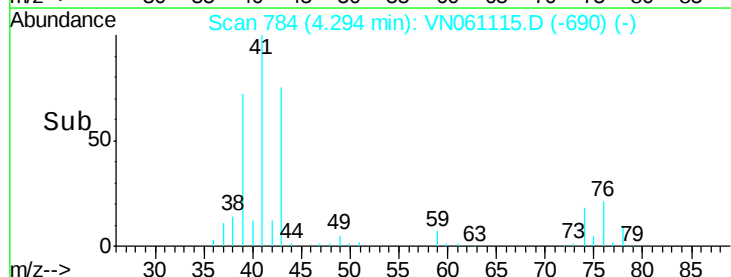
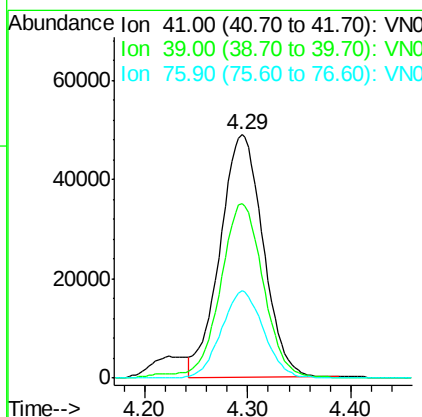
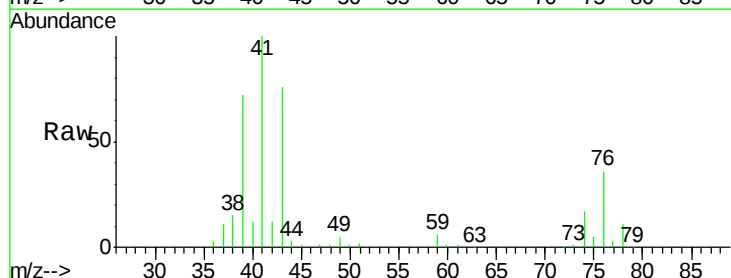
Tgt Ion: 41 Resp: 142122

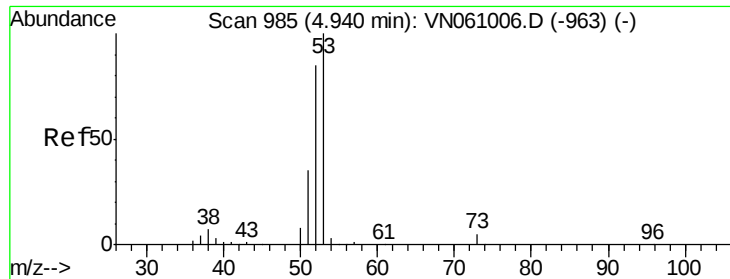
Ion Ratio Lower Upper

41 100

39 72.8 56.3 84.5

76 35.2 27.7 41.5





#15

Acrylonitrile

Concen: 257.616 ug/l

RT: 4.94 min Scan# 985

Delta R.T. 0.00 min

Lab File: VN061115.D

Acq: 20 Apr 2020 20:23

Instrument :

MSVOA_N

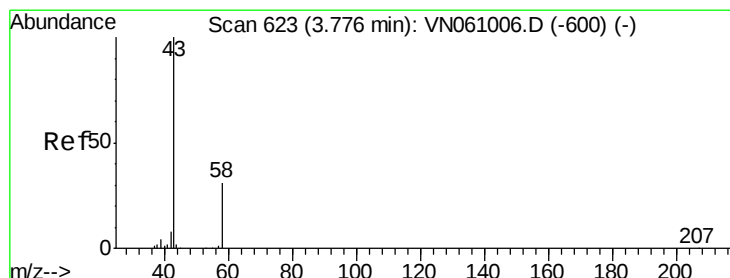
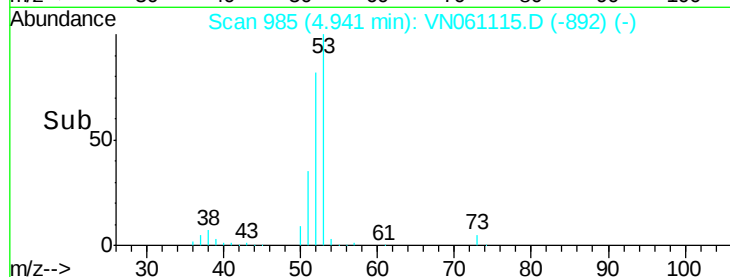
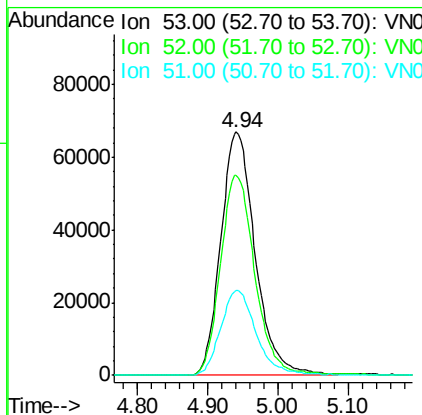
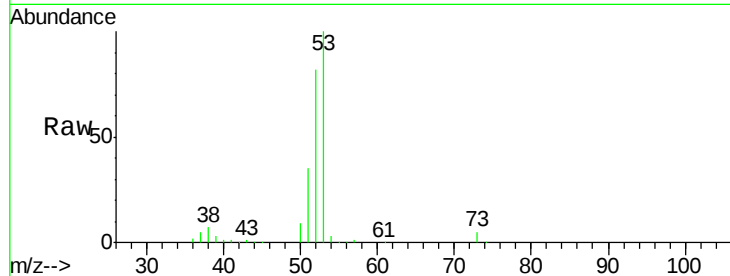
ClientSampleId :

PA-TWP-2MSD

Tot Ion:	53	Resp:	228150
Ion	Ratio	Lower	Upper
53	100		
52	81.9	66.8	100.2
51	36.0	28.9	43.3

Manual Integrations
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#16

Acetone

Concen: 225.240 ug/l

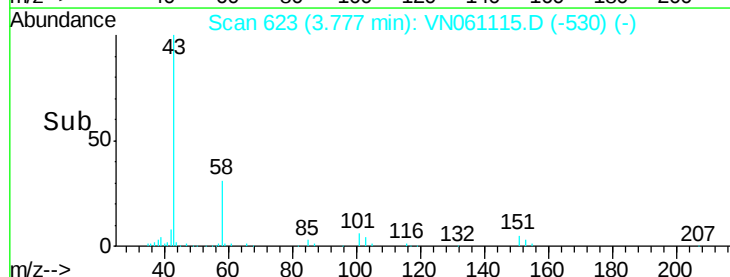
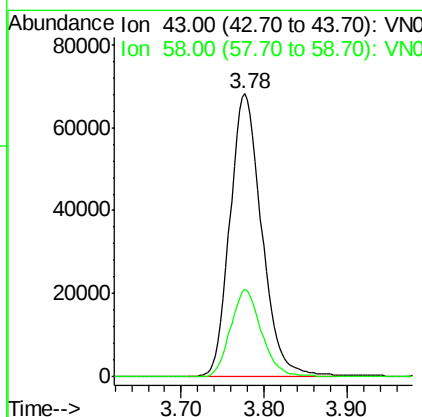
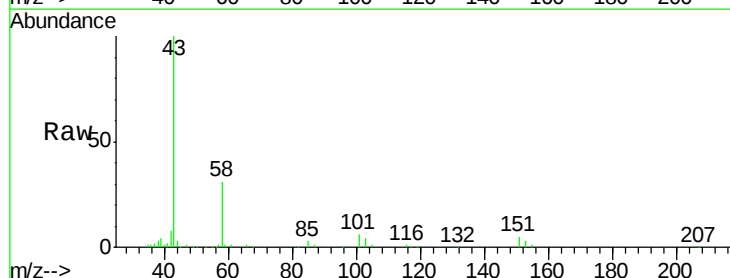
RT: 3.78 min Scan# 623

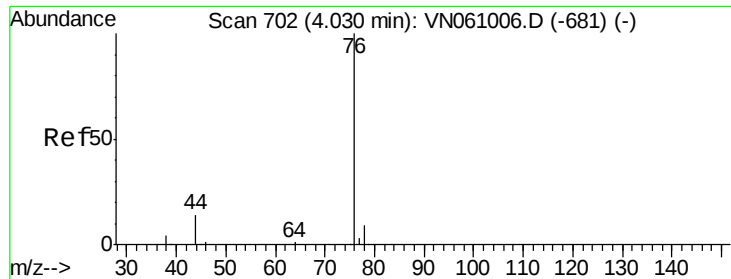
Delta R.T. 0.00 min

Lab File: VN061115.D

Acq: 20 Apr 2020 20:23

Tgt Ion:	43	Resp:	182510
Ion	Ratio	Lower	Upper
43	100		
58	30.9	24.6	37.0





#17

Carbon Disulfide

Concen: 50.118 ug/l

RT: 4.03 min Scan# 702

Delta R.T. 0.00 min

Lab File: VN061115.D

Acq: 20 Apr 2020 20:23

Instrument :

MSVOA_N

ClientSampleId :

PA-TWP-2MSD

Tot Ion: 76 Resp: 246938

Ion Ratio Lower Upper

76 100

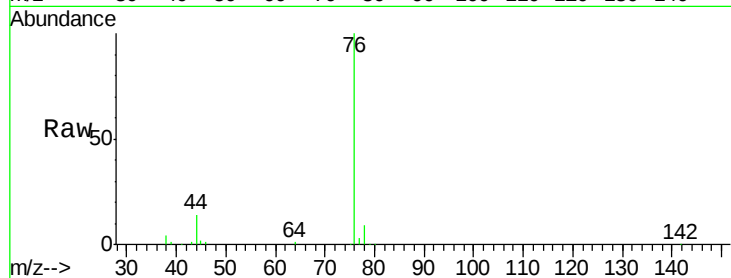
78 9.2 7.6 11.4

Manual Integrations

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Abundance Ion 75.90 (75.60 to 76.60): VN0

Ion 77.90 (77.60 to 78.60): VN0

4.03

100000

80000

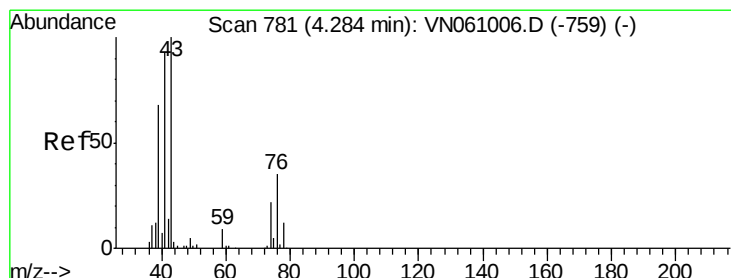
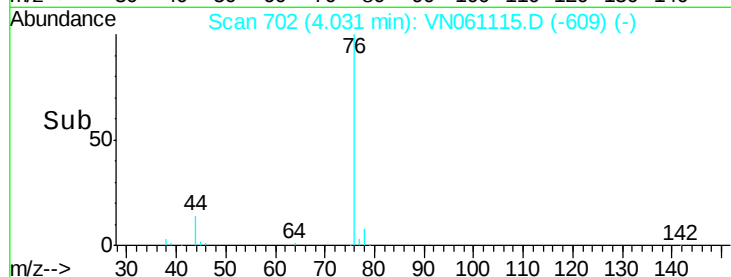
60000

40000

20000

0

Time-->



#18

Methyl Acetate

Concen: 48.193 ug/l

RT: 4.28 min Scan# 781

Delta R.T. 0.00 min

Lab File: VN061115.D

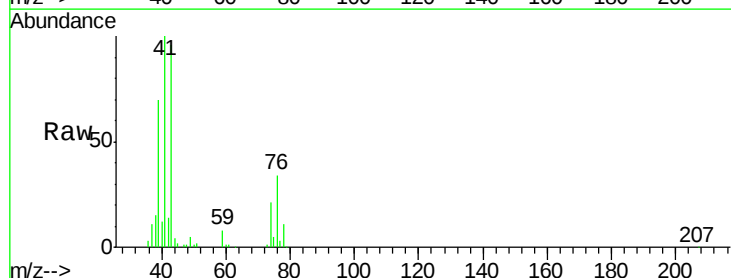
Acq: 20 Apr 2020 20:23

Tgt Ion: 43 Resp: 122453

Ion Ratio Lower Upper

43 100

74 21.9 17.4 26.0



Abundance Ion 43.00 (42.70 to 43.70): VN0

Ion 74.00 (73.70 to 74.70): VN0

4.28

50000

40000

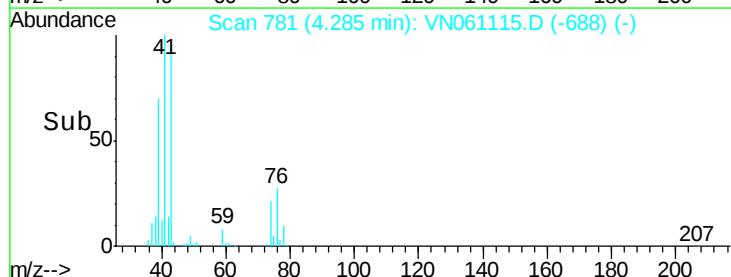
30000

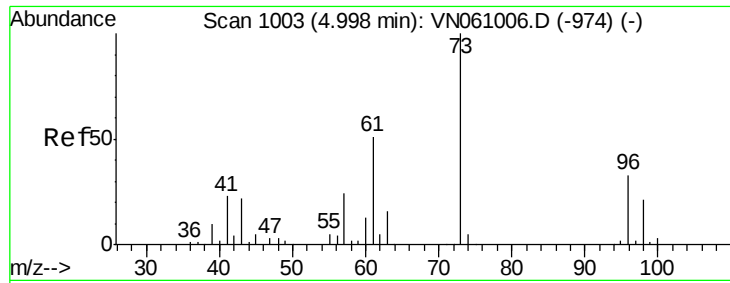
20000

10000

0

Time-->





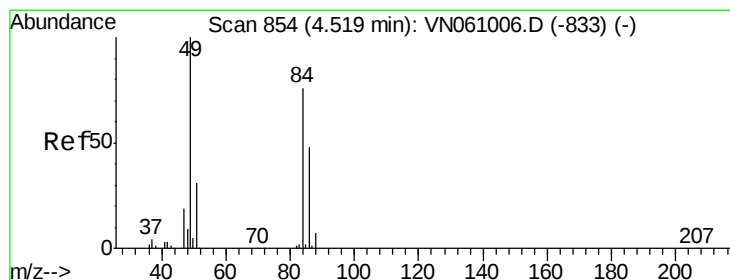
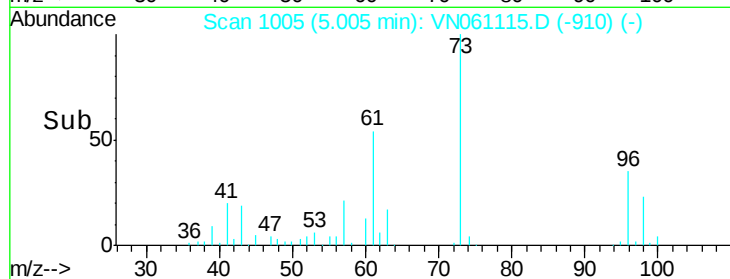
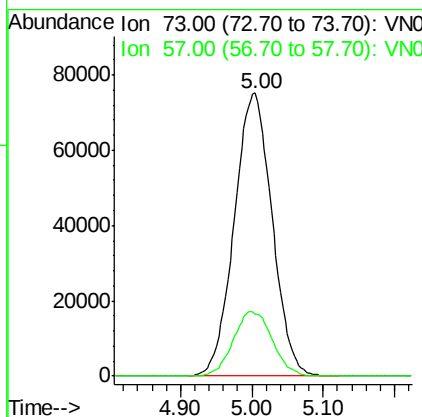
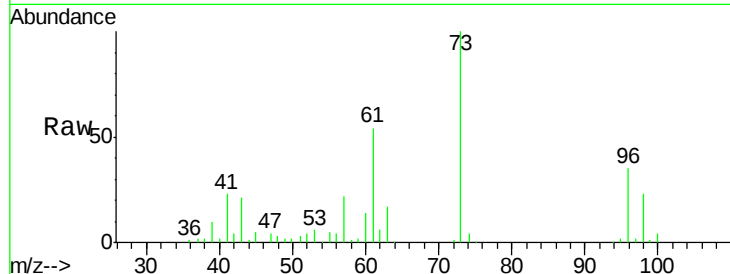
#19
Methvl tert-butvl Ether
Concen: 50.547 ug/l
RT: 5.00 min Scan# 1005
Delta R.T. 0.01 min
Lab File: VN061115.D
Acq: 20 Apr 2020 20:23

Instrument :
MSVOA_N
ClientSampleId :
PA-TWP-2MSD

Tot Ion: 73 Resp: 277519
Ion Ratio Lower Upper
73 100
57 22.0 19.0 28.4

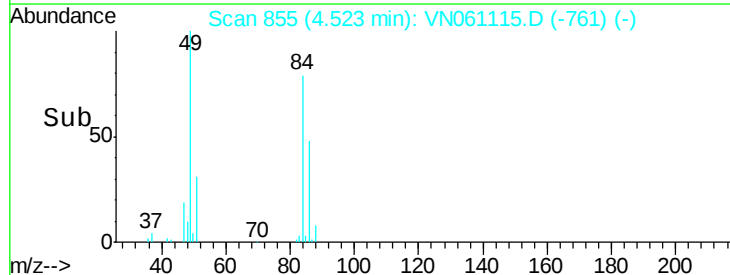
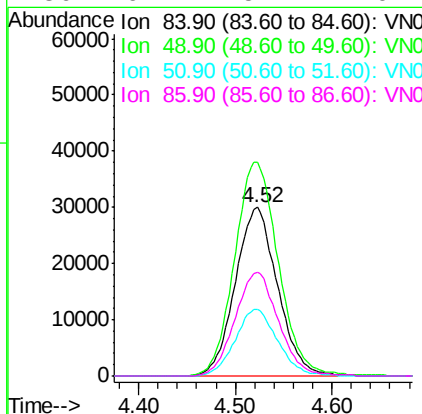
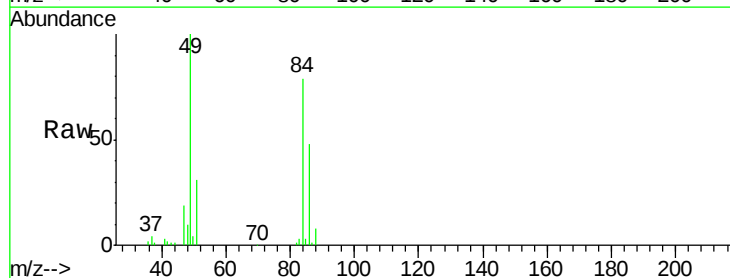
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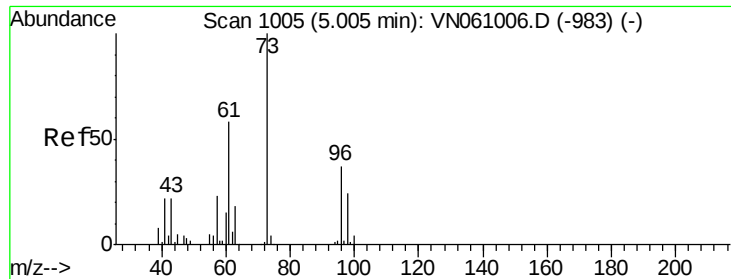
MMDadoda
4/21/2020 12:00:16 PM



#20
Methylene Chloride
Concen: 51.416 ug/l
RT: 4.52 min Scan# 855
Delta R.T. 0.00 min
Lab File: VN061115.D
Acq: 20 Apr 2020 20:23

Tgt Ion: 84 Resp: 90962
Ion Ratio Lower Upper
84 100
49 126.7 105.8 158.6
51 39.7 32.4 48.6
86 61.4 51.1 76.7





#21

trans-1,2-Dichloroethene

Concen: 51.477 ug/l

RT: 5.01 min Scan# 1007

Delta R.T. 0.01 min

Lab File: VN061115.D

Acq: 20 Apr 2020 20:23

Instrument :

MSVOA_N

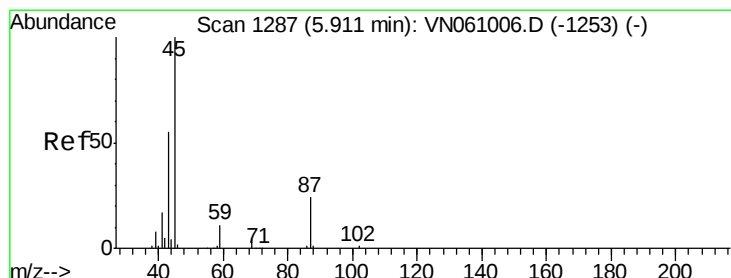
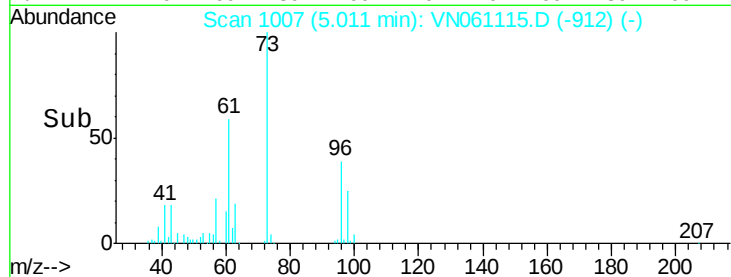
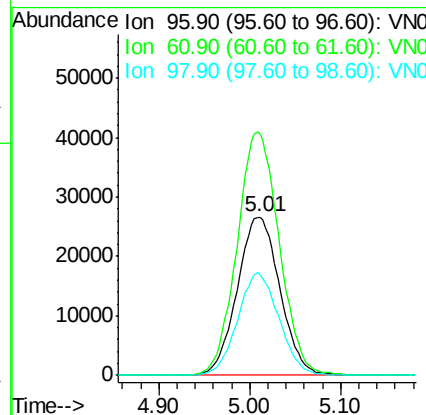
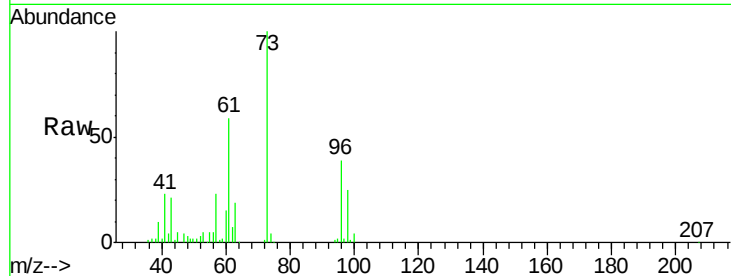
ClientSampleId :

PA-TWP-2MSD

Tot Ion:	96	Resp:	86694
Ion	Ratio	Lower	Upper
96	100		
61	152.5	124.8	187.2
98	63.7	51.3	76.9

Manual Integrations
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4/21/2020 12:00:16 PM



#22

Diisopropyl ether

Concen: 51.663 ug/l

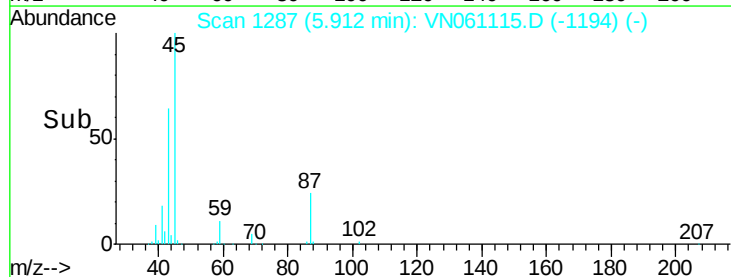
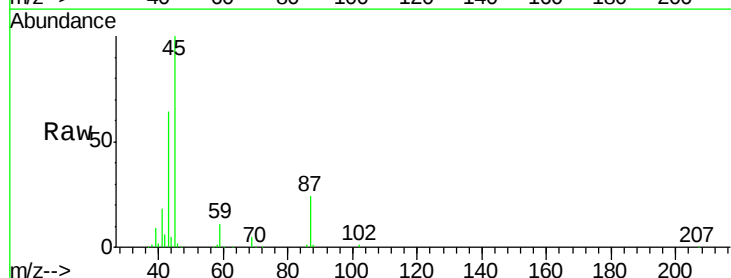
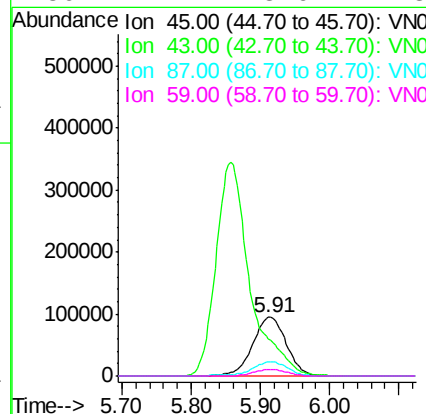
RT: 5.91 min Scan# 1287

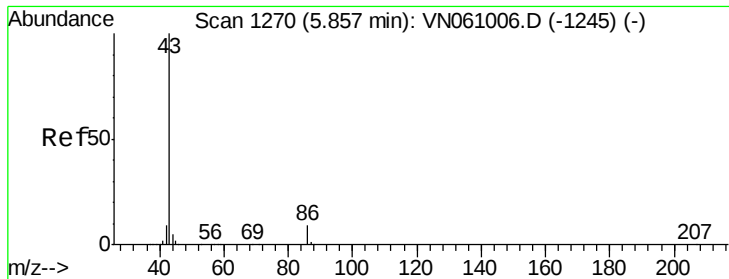
Delta R.T. 0.00 min

Lab File: VN061115.D

Acq: 20 Apr 2020 20:23

Tgt Ion:	45	Resp:	319664
Ion	Ratio	Lower	Upper
45	100		
43	62.8	48.6	72.8
87	24.3	19.4	29.2
59	11.2	8.6	12.8





#23

Vinyl Acetate

Concen: 241.945 ug/l

RT: 5.86 min Scan# 1270

Delta R.T. 0.00 min

Lab File: VN061115.D

Acq: 20 Apr 2020 20:23

Instrument :

MSVOA_N

ClientSampleId :

PA-TWP-2MSD

Tot Ion: 43 Resp: 1173940

Ion Ratio Lower Upper

43 100

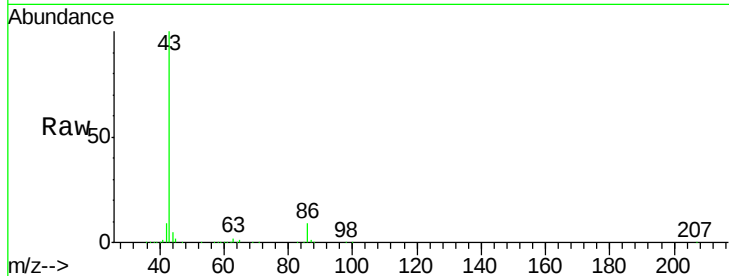
86 9.1 7.3 10.9

Manual Integrations

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Abundance Ion 43.00 (42.70 to 43.70): VN0

Ion 86.00 (85.70 to 86.70): VN0

5.86

400000

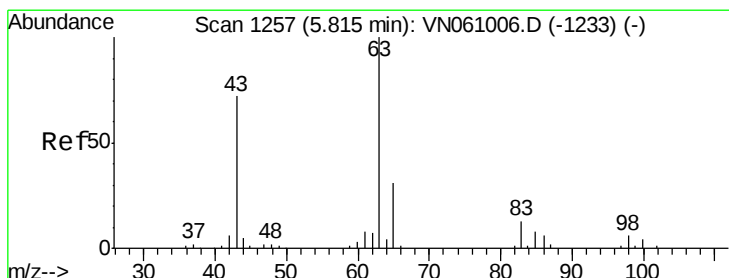
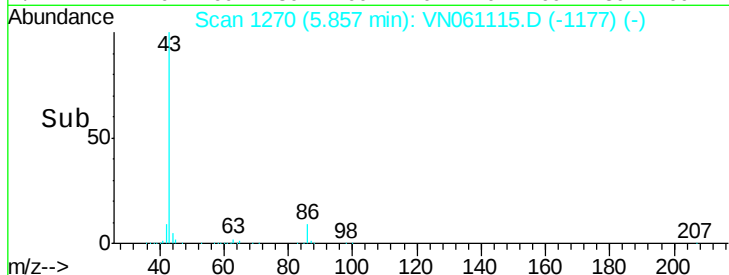
300000

200000

100000

0

Time-->



#24

1,1-Dichloroethane

Concen: 50.994 ug/l

RT: 5.82 min Scan# 1257

Delta R.T. 0.00 min

Lab File: VN061115.D

Acq: 20 Apr 2020 20:23

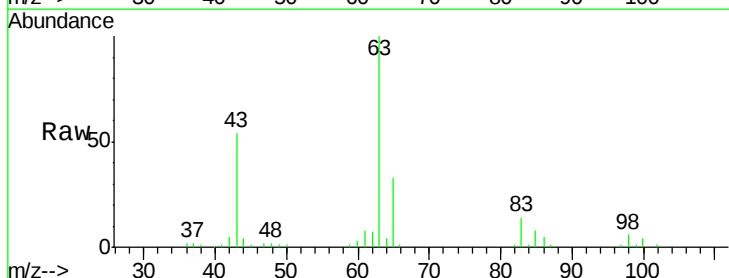
Tgt Ion: 63 Resp: 170414

Ion Ratio Lower Upper

63 100

98 6.3 2.9 8.8

100 3.9 2.0 5.8



Abundance Ion 62.90 (62.60 to 63.60): VN0

Ion 97.90 (97.60 to 98.60): VN0

Ion 99.90 (99.60 to 100.60): VN0

5.82

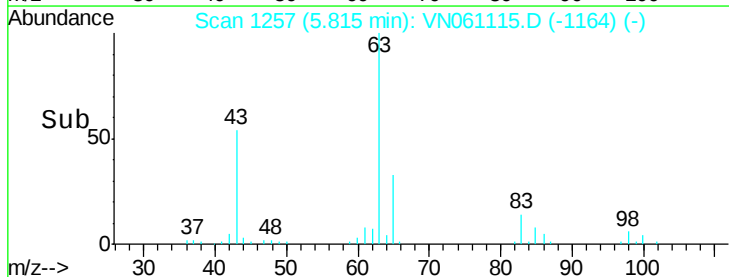
60000

40000

20000

0

Time-->





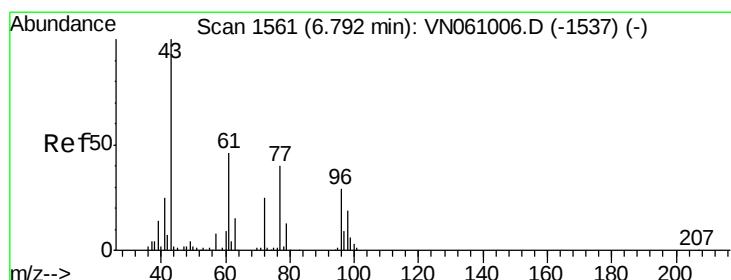
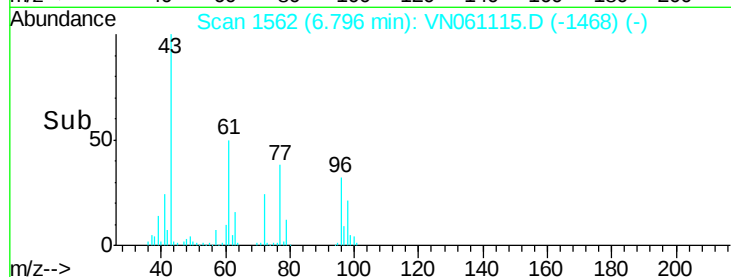
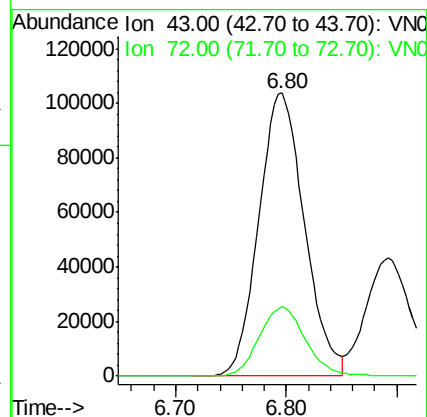
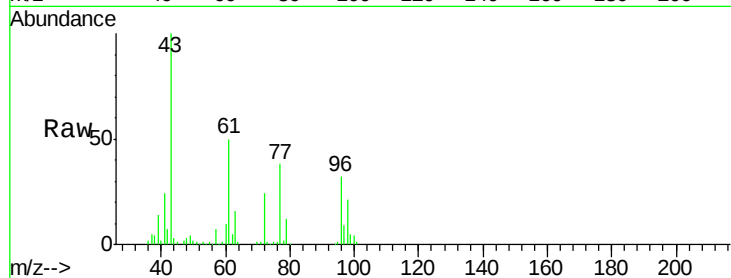
#25
2-Butanone
Concen: 239.955 ug/l
RT: 6.80 min Scan# 1562
Delta R.T. 0.00 min
Lab File: VN061115.D
Acq: 20 Apr 2020 20:23

Instrument :
MSVOA_N
ClientSampleId :
PA-TWP-2MSD

Tot Ion	43	Resp	297944
Ion Ratio	100	Lower	Upper
72	24.5	19.6	29.4

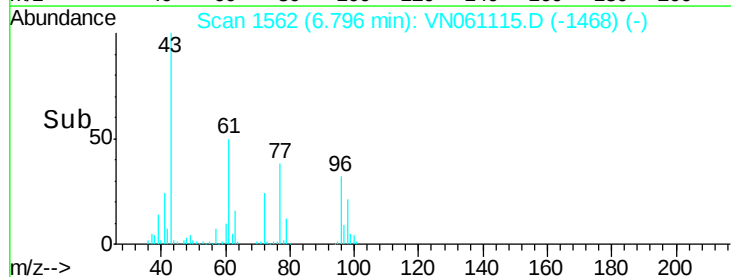
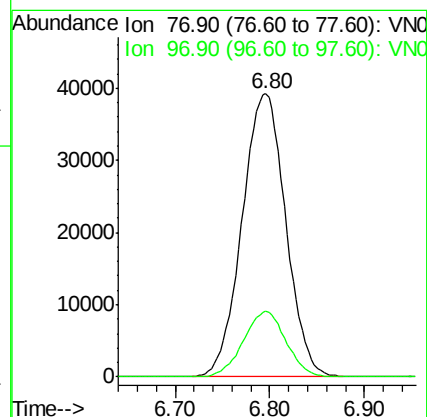
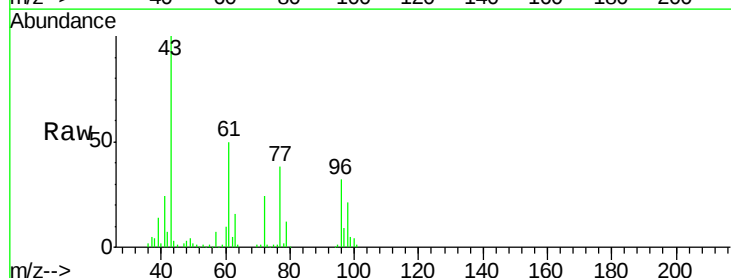
Manual Integrations
APPROVED

MMDadoda
4/21/2020 12:00:16 PM



#26
2,2-Dichloropropane
Concen: 45.135 ug/l
RT: 6.80 min Scan# 1562
Delta R.T. 0.00 min
Lab File: VN061115.D
Acq: 20 Apr 2020 20:23

Tgt Ion	77	Resp	125589
Ion Ratio	100	Lower	Upper
97	22.5	11.2	33.6





#27

cis-1,2-Dichloroethene

Concen: 51.262 ug/l

RT: 6.80 min Scan# 1563

Delta R.T. 0.00 min

Lab File: VN061115.D

Acq: 20 Apr 2020 20:23

Instrument :

MSVOA_N

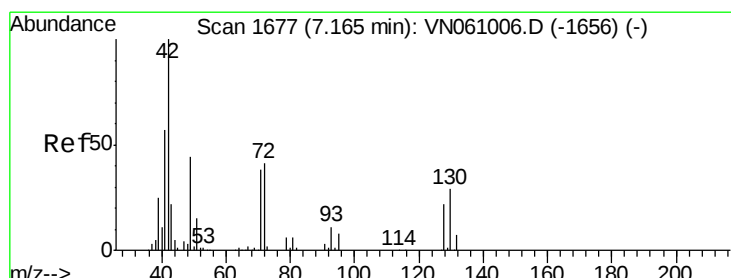
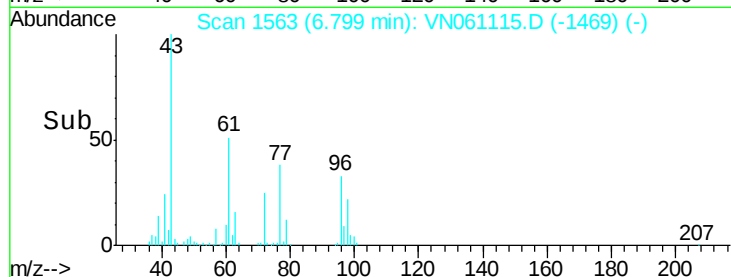
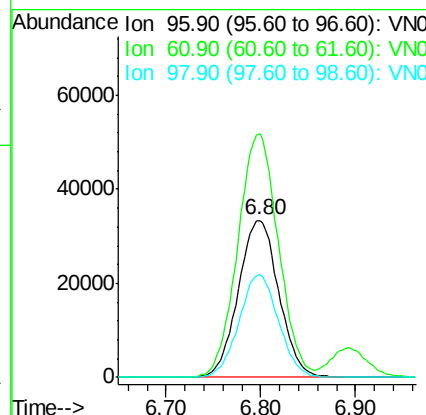
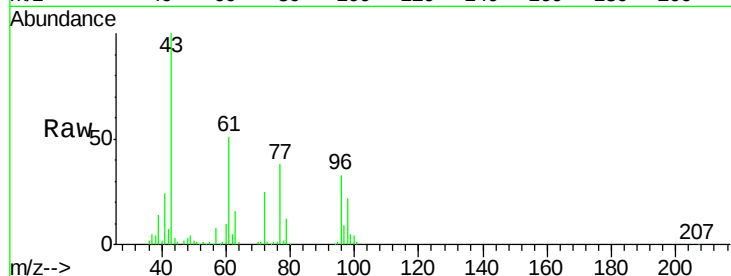
ClientSampleId :

PA-TWP-2MSD

Tot Ion:	96	Resp:	99114
Ion	Ratio	Lower	Upper
96	100		
61	155.7	0.0	317.4
98	64.1	0.0	127.8

Manual Integrations
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4/21/2020 12:00:16 PM



#28

Bromochloromethane

Concen: 50.993 ug/l

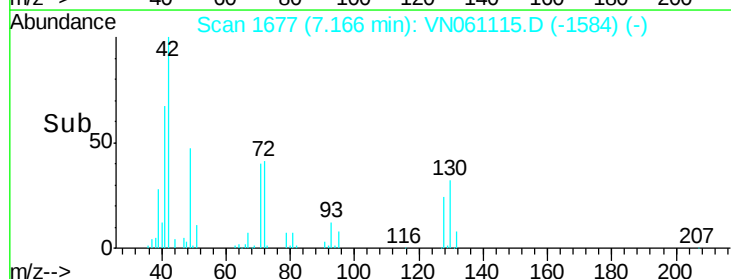
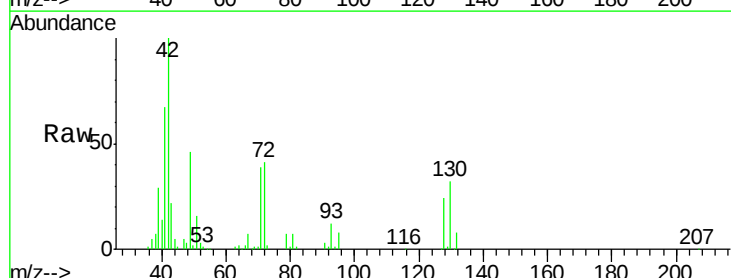
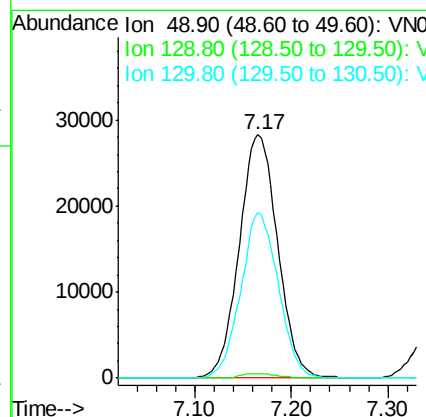
RT: 7.17 min Scan# 1677

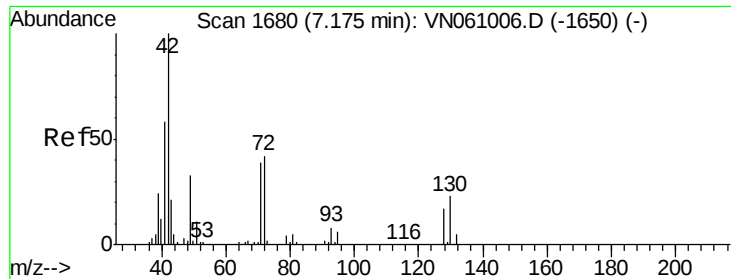
Delta R.T. 0.00 min

Lab File: VN061115.D

Acq: 20 Apr 2020 20:23

Tgt Ion:	49	Resp:	78224
Ion	Ratio	Lower	Upper
49	100		
129	1.6	0.0	3.0
130	66.3	52.9	79.3





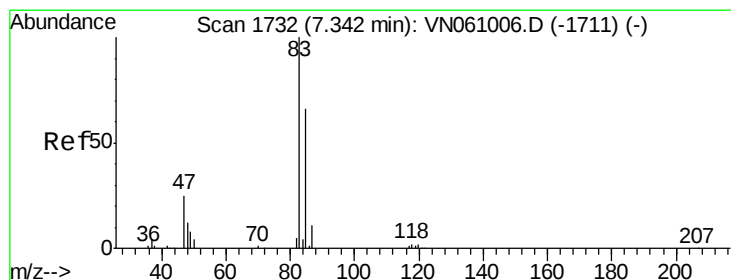
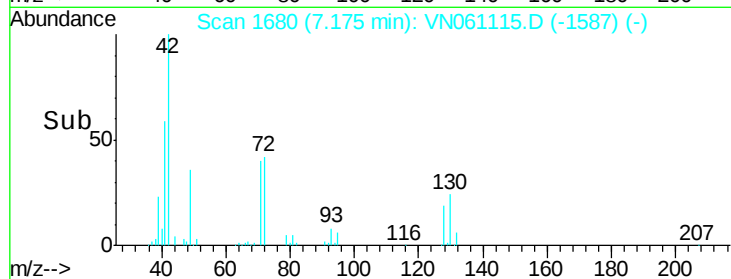
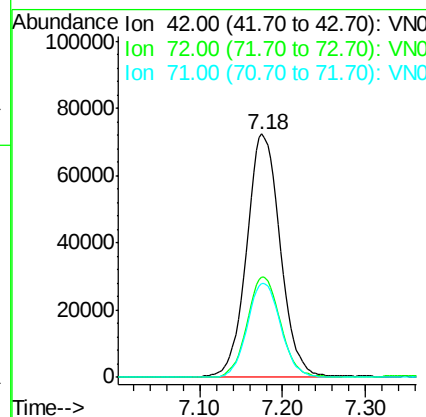
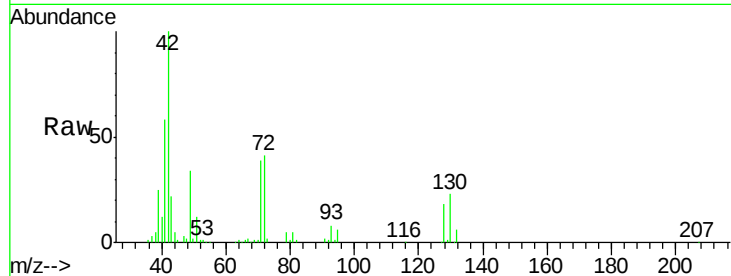
#29
Tetrahydrofuran
Concen: 242.425 ug/l
RT: 7.18 min Scan# 1680
Delta R.T. 0.00 min
Lab File: VN061115.D
Acq: 20 Apr 2020 20:23

Instrument :
MSVOA_N
ClientSampleId :
PA-TWP-2MSD

Tot Ion	Ratio	Lower	Upper
42	100		
72	40.7	32.1	48.1
71	38.4	30.5	45.7

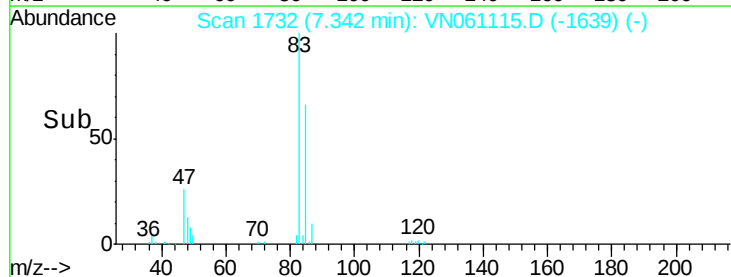
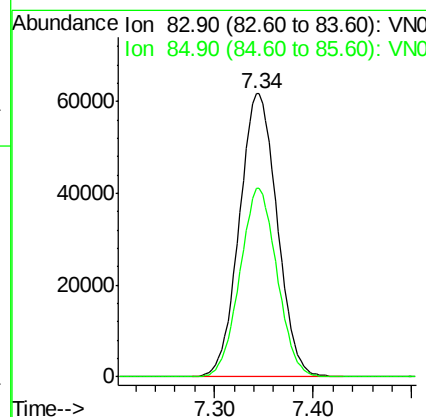
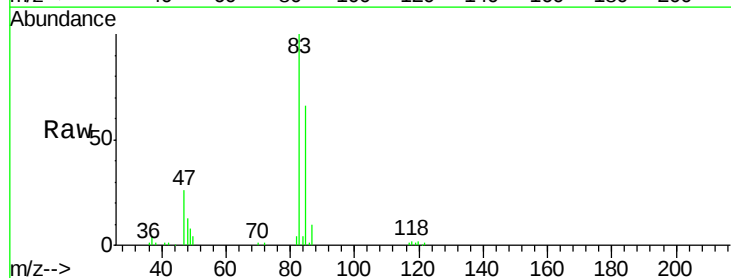
Manual Integrations
APPROVED

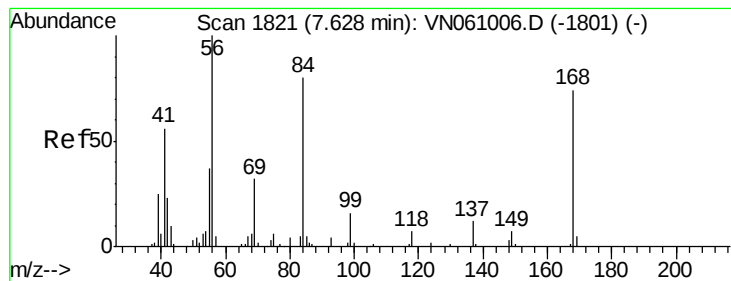
MMDadoda
4/21/2020 12:00:16 PM



#30
Chloroform
Concen: 52.432 ug/l
RT: 7.34 min Scan# 1732
Delta R.T. 0.00 min
Lab File: VN061115.D
Acq: 20 Apr 2020 20:23

Tgt Ion	Ratio	Lower	Upper
83	100		
85	66.4	52.8	79.2





#31

Cyclohexane

Concen: 44.916 ug/l

RT: 7.63 min Scan# 1822

Delta R.T. 0.00 min

Lab File: VN061115.D

Acq: 20 Apr 2020 20:23

Instrument :

MSVOA_N

ClientSampleId :

PA-TWP-2MSD

Tot Ion: 56 Resp: 154028

Ion Ratio Lower Upper

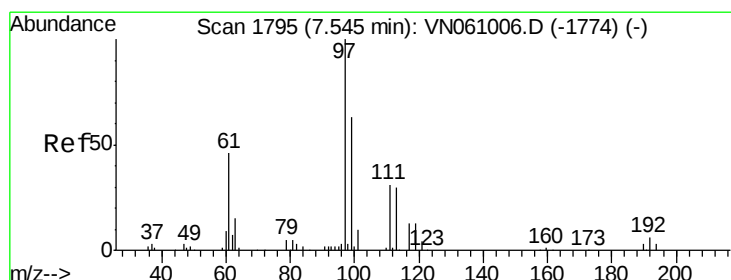
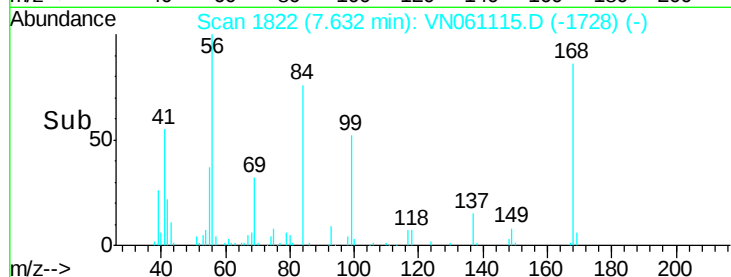
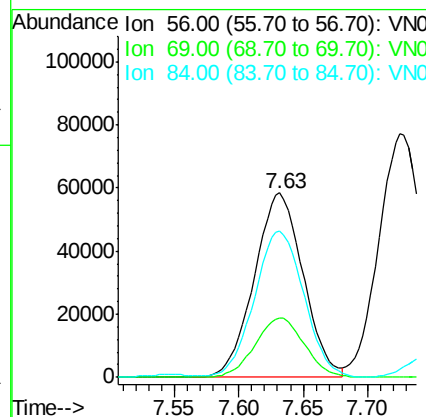
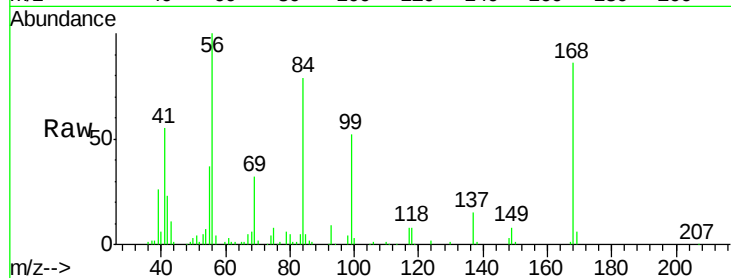
56 100

69 32.4 25.6 38.4

84 78.1 63.4 95.2

Manual Integrations
APPROVED

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#32

1,1,1-Trichloroethane

Concen: 51.435 ug/l

RT: 7.54 min Scan# 1795

Delta R.T. 0.00 min

Lab File: VN061115.D

Acq: 20 Apr 2020 20:23

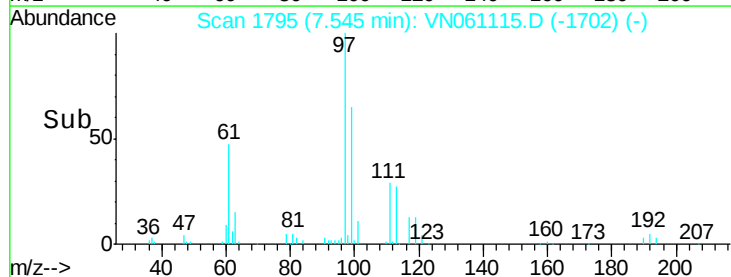
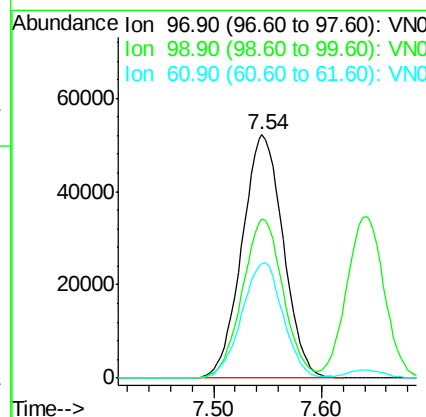
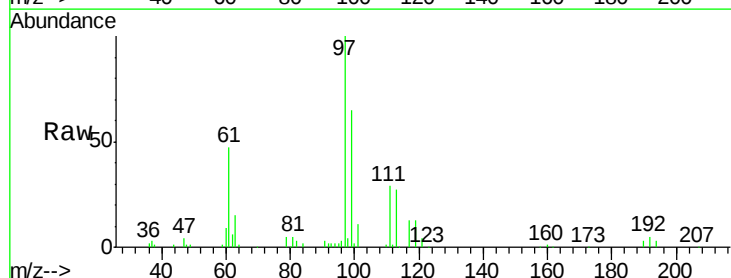
Tgt Ion: 97 Resp: 138677

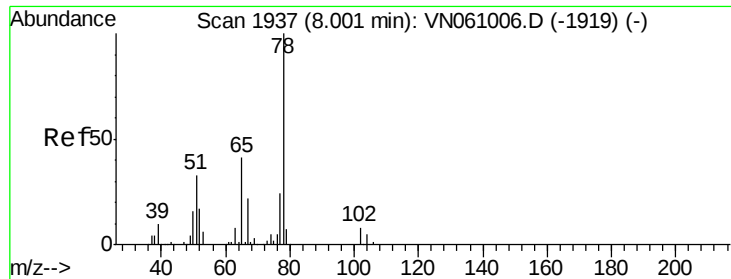
Ion Ratio Lower Upper

97 100

99 64.5 51.0 76.4

61 47.4 37.0 55.6





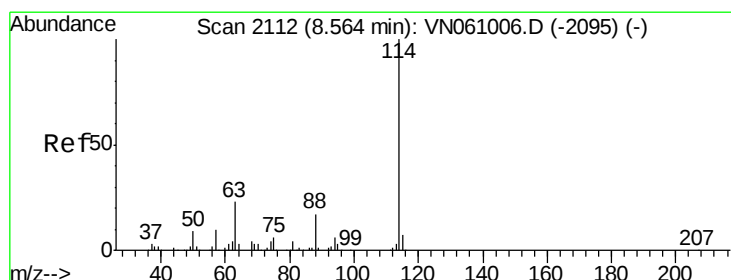
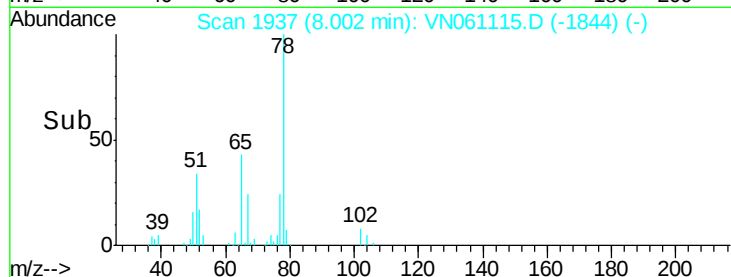
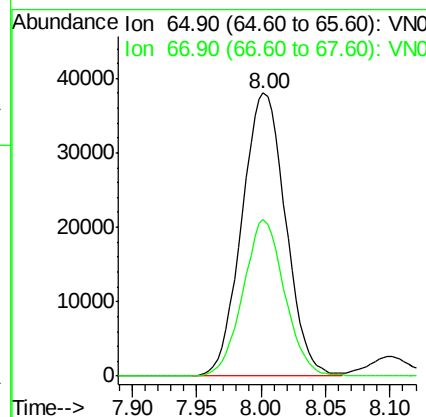
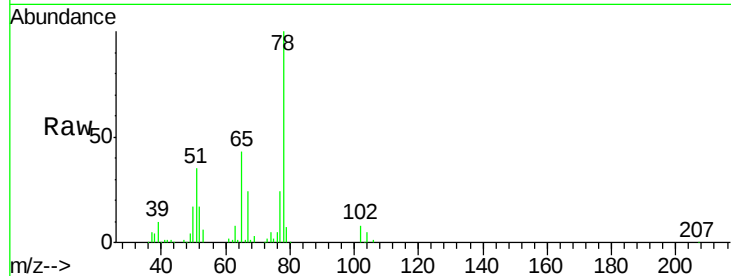
#33
 1,2-Dichloroethane-d4
 Concen: 48.871 ug/l
 RT: 8.00 min Scan# 1937
 Delta R.T. 0.00 min
 Lab File: VN061115.D
 Acq: 20 Apr 2020 20:23

Instrument :
 MSVOA_N
 ClientSampleId :
 PA-TWP-2MSD

Tot Ion	Ratio	Lower	Upper
65	100		
67	52.5	0.0	107.0

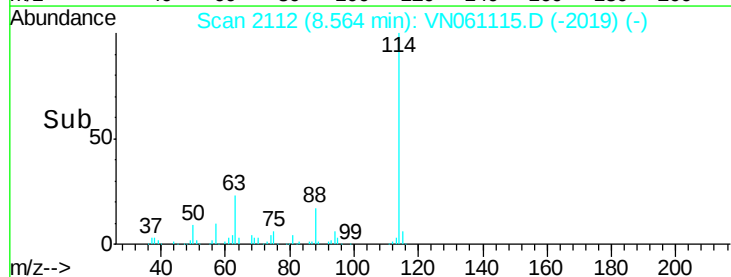
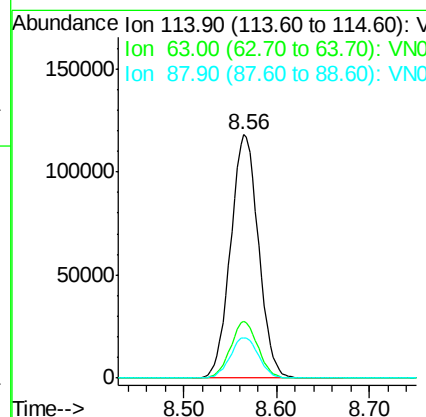
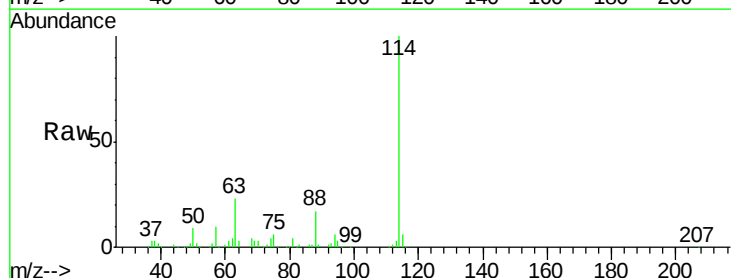
Manual Integrations
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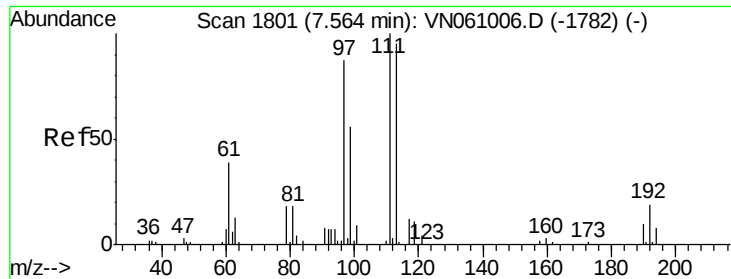
MMDadoda
 4/21/2020 12:00:16 PM



#34
 1,4-Difluorobenzene
 Concen: 50.000 ug/l
 RT: 8.56 min Scan# 2112
 Delta R.T. 0.00 min
 Lab File: VN061115.D
 Acq: 20 Apr 2020 20:23

Tgt Ion	Ratio	Lower	Upper
114	100		
63	23.4	0.0	46.2
88	16.7	0.0	33.4





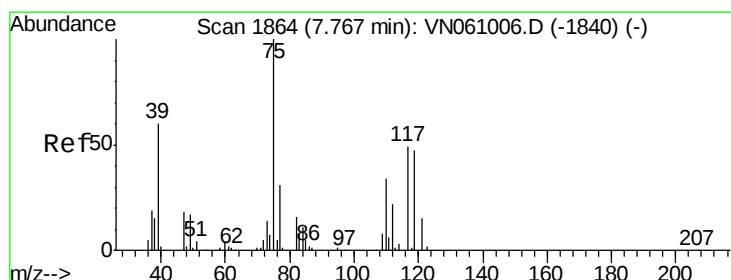
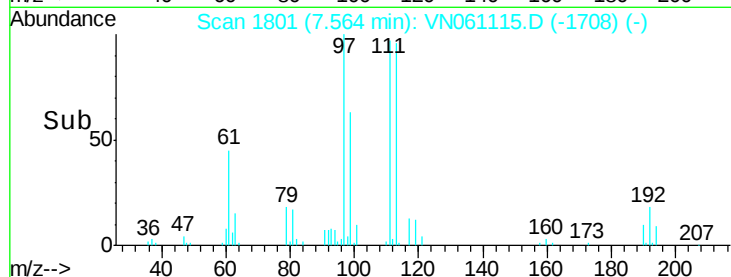
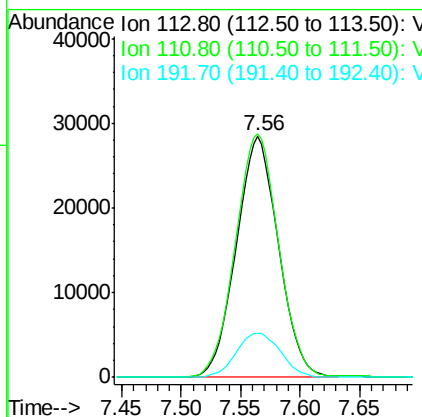
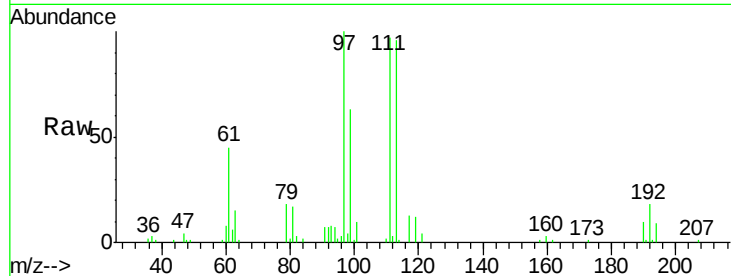
#35
Dibromofluoromethane
Concen: 48.543 ug/l
RT: 7.56 min Scan# 1801
Delta R.T. 0.00 min
Lab File: VN061115.D
Acq: 20 Apr 2020 20:23

Instrument :
MSVOA_N
ClientSampleId :
PA-TWP-2MSD

Tot Ion	Ratio	Resp	Lower	Upper
113	100	69733		
111	103.7		83.4	125.2
192	19.2		15.5	23.3

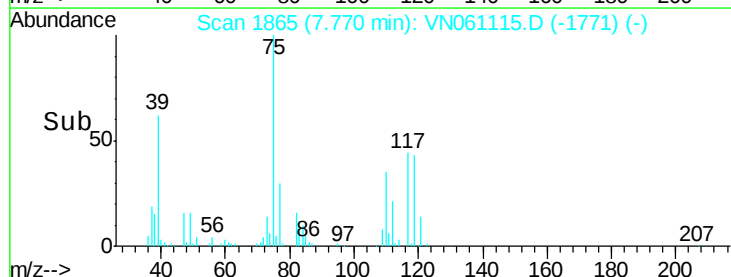
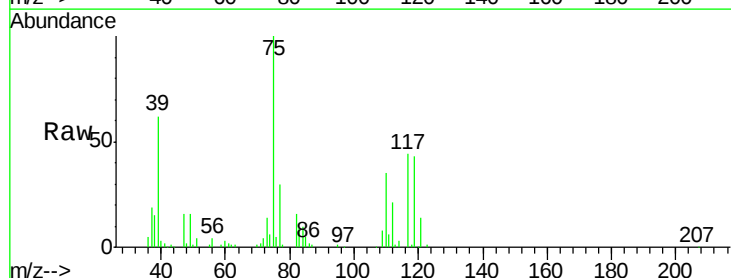
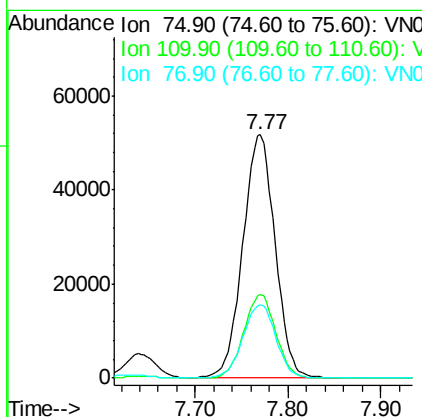
Manual Integrations
APPROVED

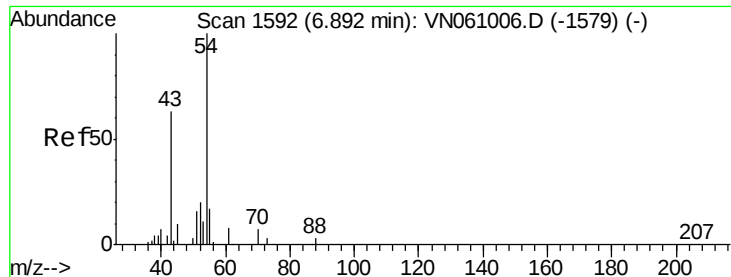
MMDadoda
4/21/2020 12:00:16 PM



#36
1,1-Dichloropropene
Concen: 49.437 ug/l
RT: 7.77 min Scan# 1865
Delta R.T. 0.00 min
Lab File: VN061115.D
Acq: 20 Apr 2020 20:23

Tgt Ion	Ratio	Resp	Lower	Upper
75	100	125488		
110	33.8		16.8	50.3
77	30.8		24.7	37.1





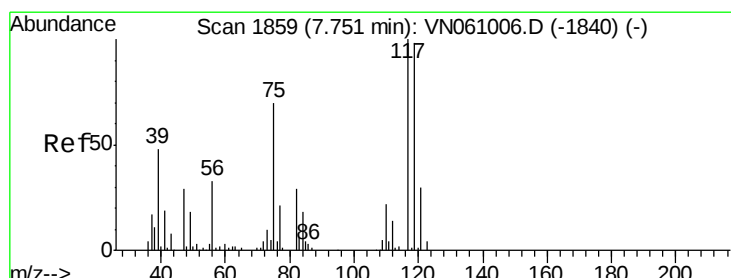
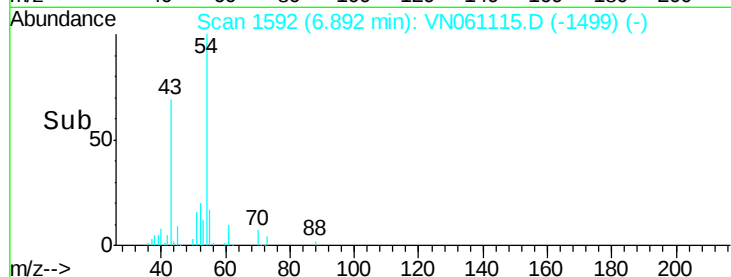
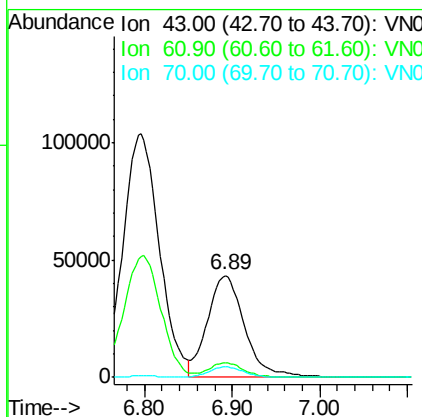
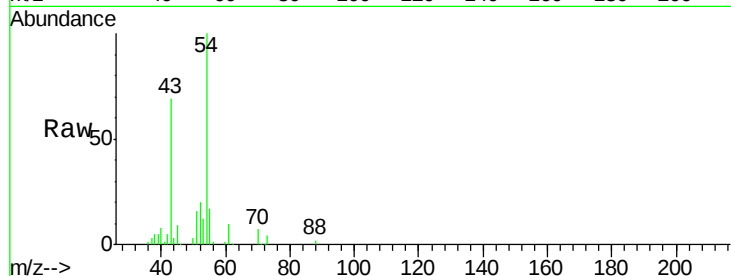
#37
Ethyl Acetate
Concen: 45.798 ug/l
RT: 6.89 min Scan# 1592
Delta R.T. 0.00 min
Lab File: VN061115.D
Acq: 20 Apr 2020 20:23

Instrument :
MSVOA_N
ClientSampled :
PA-TWP-2MSD

Tot Ion	Ratio	Resp	Lower	Upper
43	100			
61	13.7	10.9	16.3	
70	9.7	7.7	11.5	

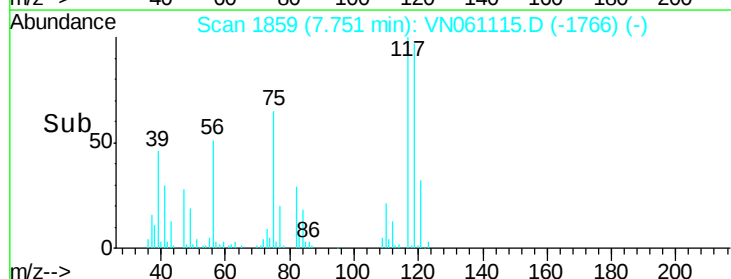
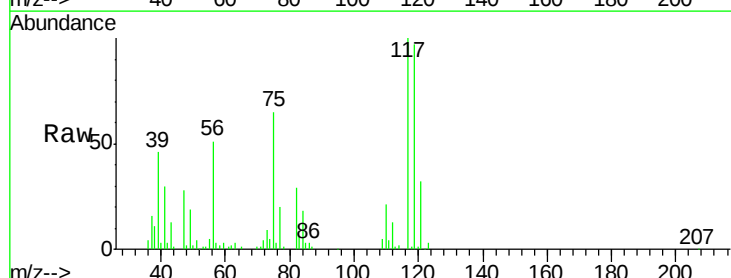
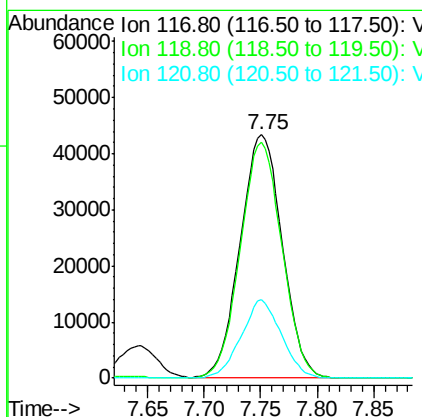
Manual Integrations
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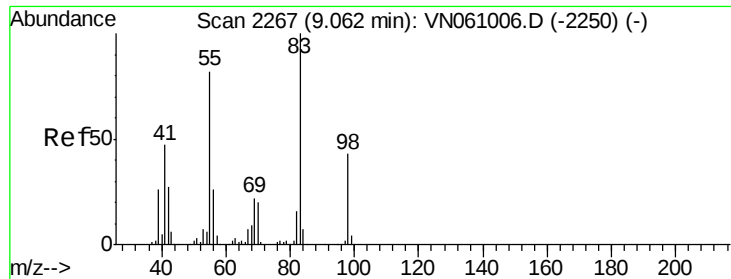
MMDadoda
4/21/2020 12:00:16 PM



#38
Carbon Tetrachloride
Concen: 53.182 ug/l
RT: 7.75 min Scan# 1859
Delta R.T. 0.00 min
Lab File: VN061115.D
Acq: 20 Apr 2020 20:23

Tgt Ion	Ratio	Resp	Lower	Upper
117	100			
119	96.8	78.1	117.1	
121	32.2	24.0	36.0	





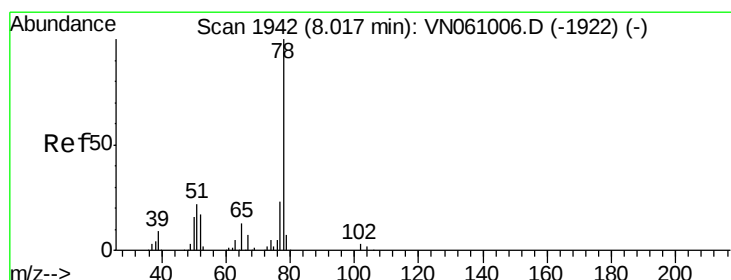
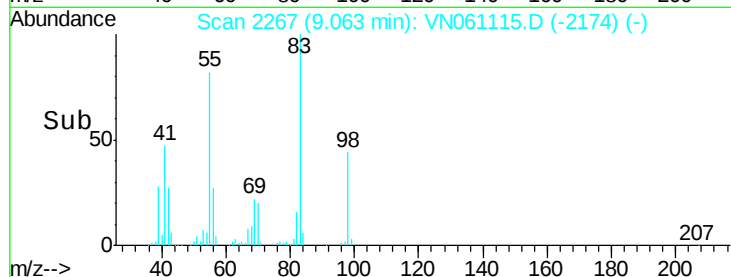
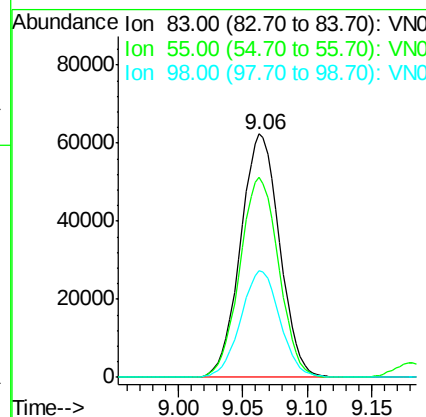
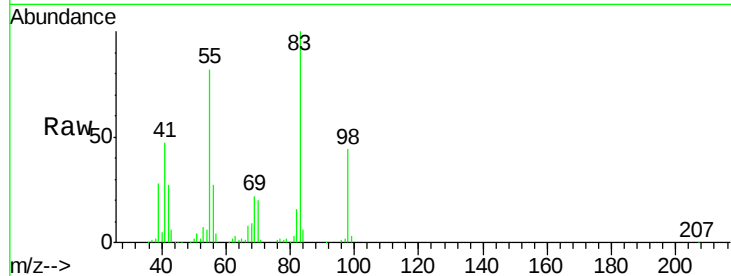
#39
Methvlcvclohexane
Concen: 43.366 ug/l
RT: 9.06 min Scan# 2267
Delta R.T. 0.00 min
Lab File: VN061115.D
Acq: 20 Apr 2020 20:23

Instrument :
MSVOA_N
ClientSampleId :
PA-TWP-2MSD

Tot Ion	Ratio	Resp	Lower	Upper
83	100			
55	82.1	65.4	98.0	
98	43.7	34.6	51.8	

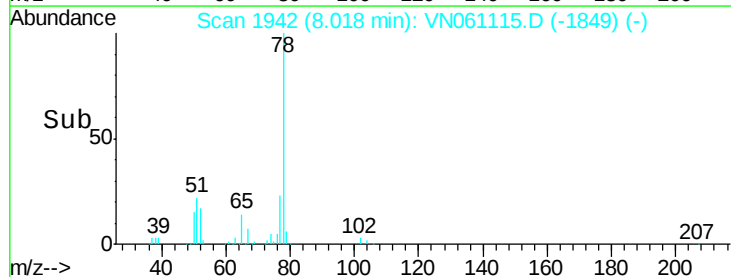
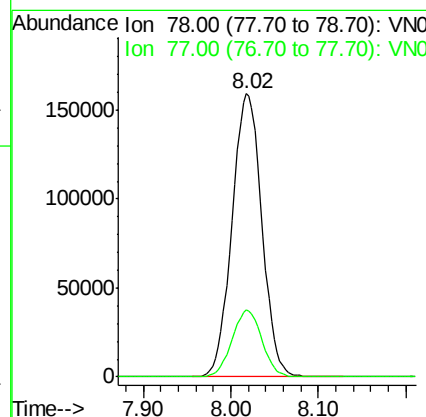
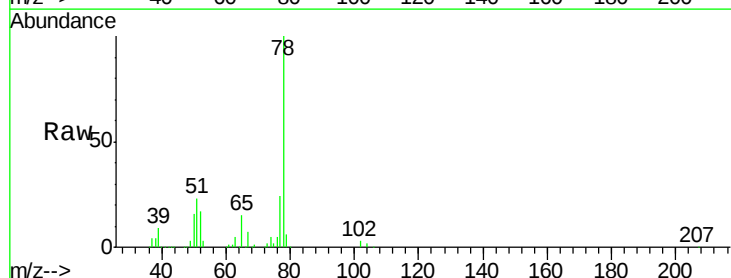
Manual Integrations
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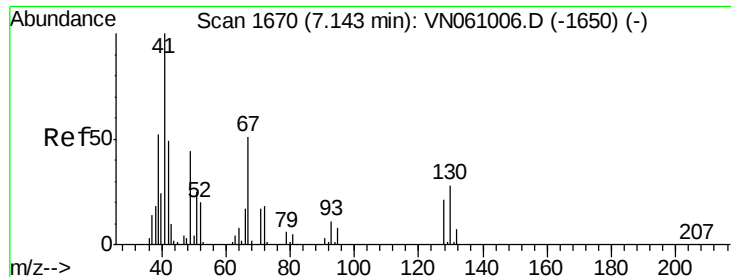
MMDadoda
4/21/2020 12:00:16 PM



#40
Benzene
Concen: 49.985 ug/l
RT: 8.02 min Scan# 1942
Delta R.T. 0.00 min
Lab File: VN061115.D
Acq: 20 Apr 2020 20:23

Tgt Ion	Ratio	Resp	Lower	Upper
78	100			
77	23.6	18.8	28.2	





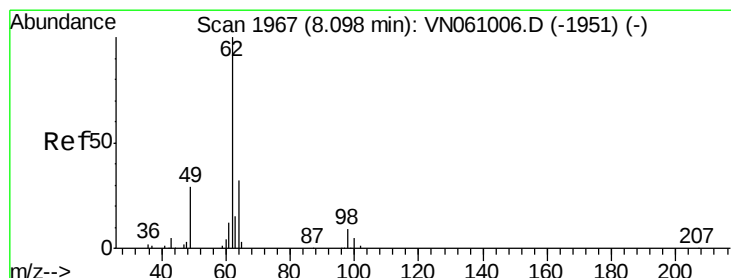
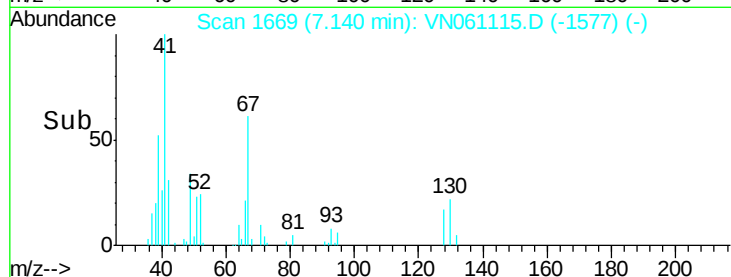
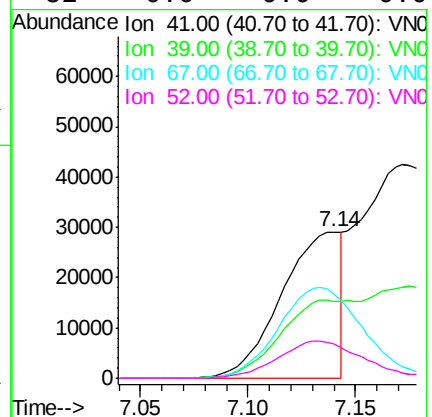
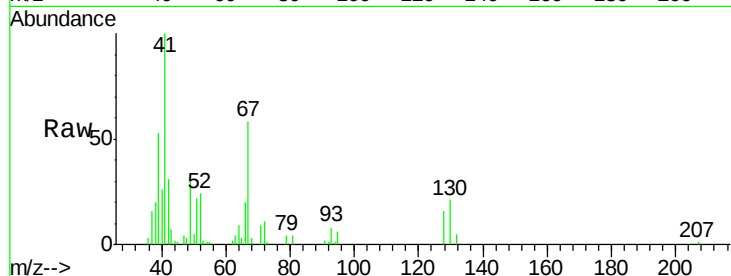
#41
Methacrylonitrile
Concen: 48.515 ug/l m
RT: 7.14 min Scan# 1669
Delta R.T. -0.00 min
Lab File: VN061115.D
Acq: 20 Apr 2020 20:23

Instrument :
MSVOA_N
ClientSampleId :
PA-TWP-2MSD

Tot Ion	41	Resp:	55774
Ion	Ratio	Lower	Upper
41	100		
39	0.0	0.0	0.0
67	0.0	0.0	0.0
52	0.0	0.0	0.0

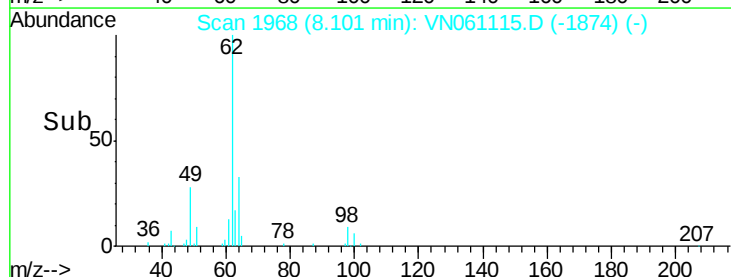
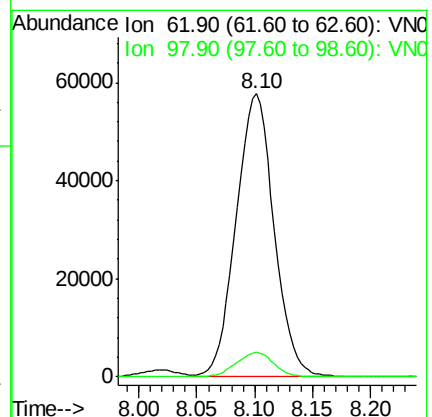
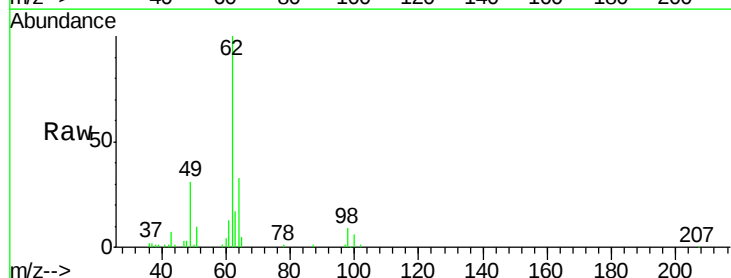
Manual Integrations
APPROVED

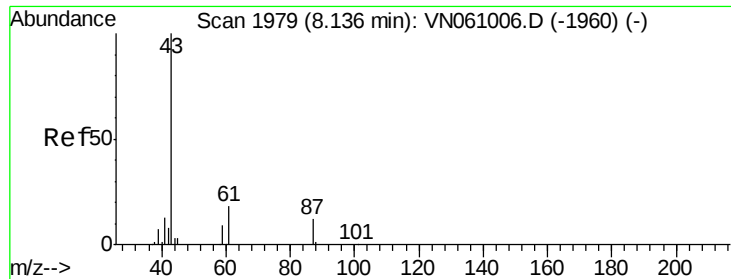
MMDadoda
4/21/2020 12:00:16 PM



#42
1,2-Dichloroethane
Concen: 51.146 ug/l
RT: 8.10 min Scan# 1968
Delta R.T. 0.00 min
Lab File: VN061115.D
Acq: 20 Apr 2020 20:23

Tgt Ion	62	Resp:	131204
Ion	Ratio	Lower	Upper
62	100		
98	8.6	0.0	17.2





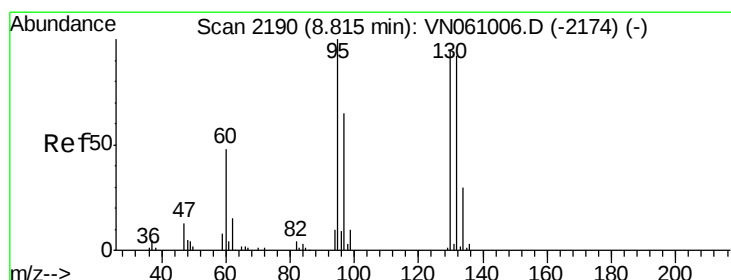
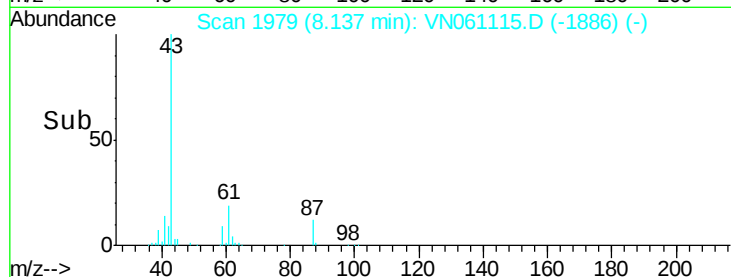
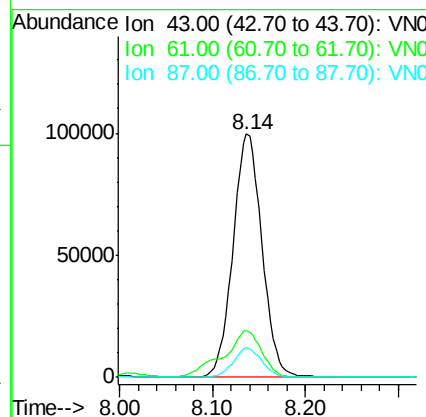
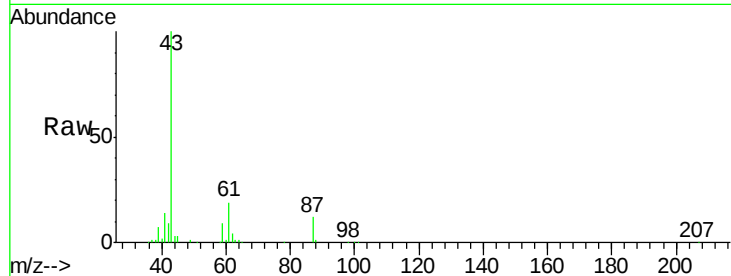
#43
Isopropyl Acetate
Concen: 48.250 ug/l
RT: 8.14 min Scan# 1979
Delta R.T. 0.00 min
Lab File: VN061115.D
Acq: 20 Apr 2020 20:23

Instrument :
MSVOA_N
ClientSampleId :
PA-TWP-2MSD

Tot Ion	Ratio	Lower	Upper
43	100		
61	25.6	20.3	30.5
87	11.9	9.4	14.2

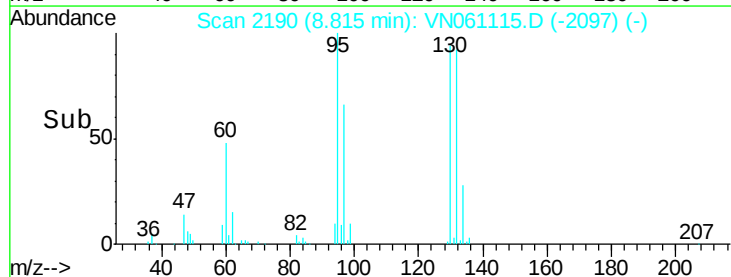
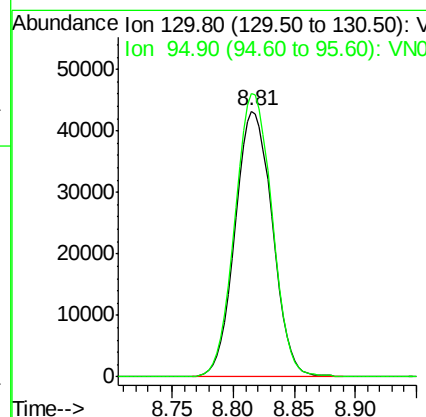
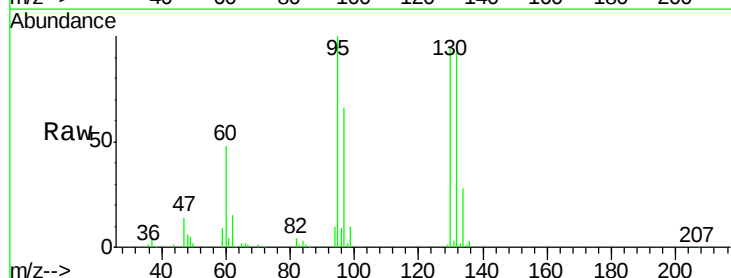
Manual Integrations
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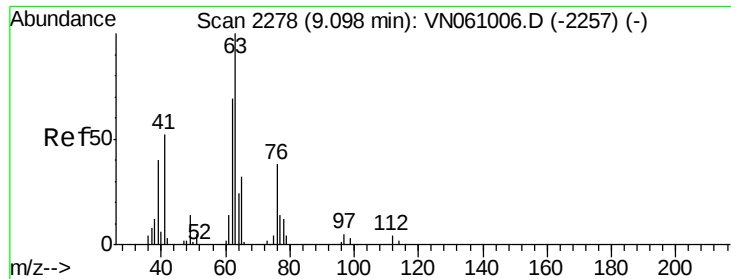
MMDadoda
4/21/2020 12:00:16 PM



#44
Trichloroethene
Concen: 48.459 ug/l
RT: 8.81 min Scan# 2190
Delta R.T. 0.00 min
Lab File: VN061115.D
Acq: 20 Apr 2020 20:23

Tgt Ion	Ratio	Lower	Upper
130	100		
95	106.4	0.0	210.0





#45

1,2-Dichloropropane

Concen: 50.191 ug/l

RT: 9.10 min Scan# 2278

Delta R.T. 0.00 min

Lab File: VN061115.D

Acq: 20 Apr 2020 20:23

Instrument :

MSVOA_N

ClientSampled :

PA-TWP-2MSD

Tot Ion: 63 Resp: 102088

Ion Ratio Lower Upper

63 100

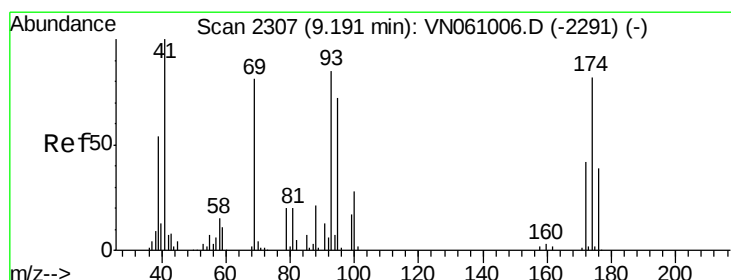
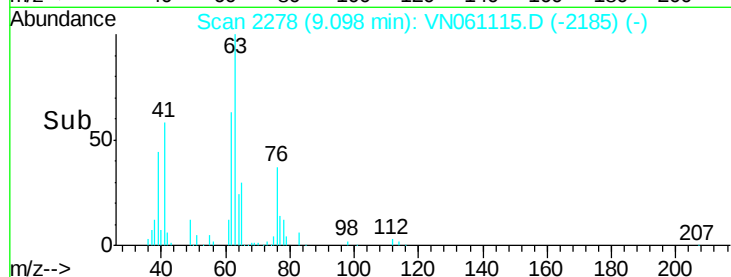
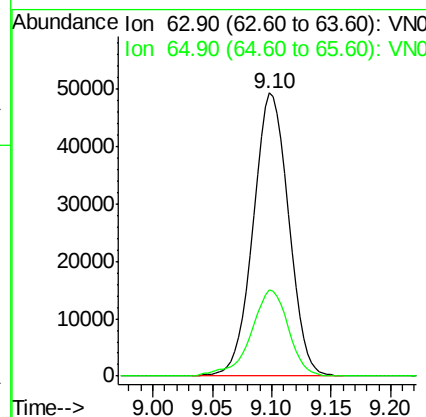
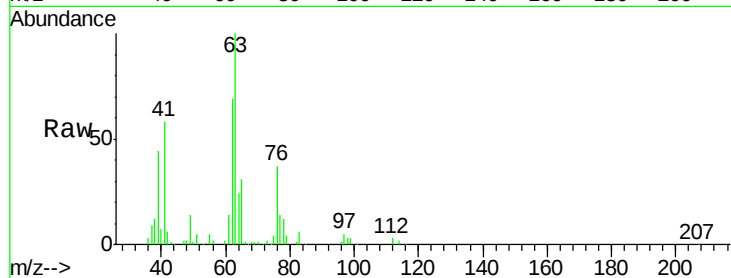
65 30.5 25.2 37.8

Manual Integrations

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#46

Dibromomethane

Concen: 52.686 ug/l

RT: 9.19 min Scan# 2307

Delta R.T. 0.00 min

Lab File: VN061115.D

Acq: 20 Apr 2020 20:23

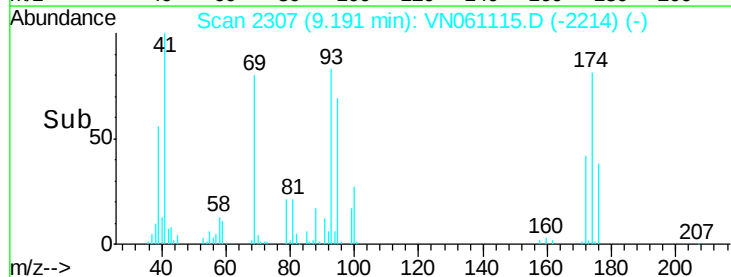
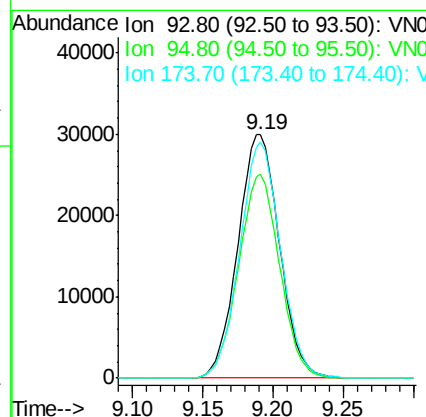
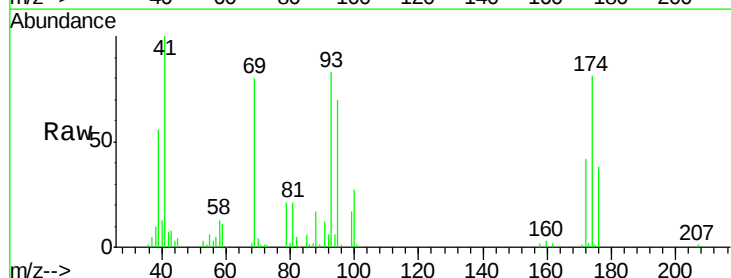
Tgt Ion: 93 Resp: 61786

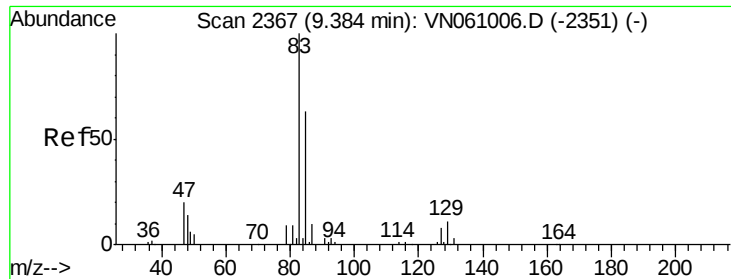
Ion Ratio Lower Upper

93 100

95 82.6 66.8 100.2

174 95.3 76.2 114.4





#47

Bromodichloromethane

Concen: 51.733 ug/l

RT: 9.38 min Scan# 2367

Delta R.T. 0.00 min

Lab File: VN061115.D

Acq: 20 Apr 2020 20:23

Instrument :

MSVOA_N

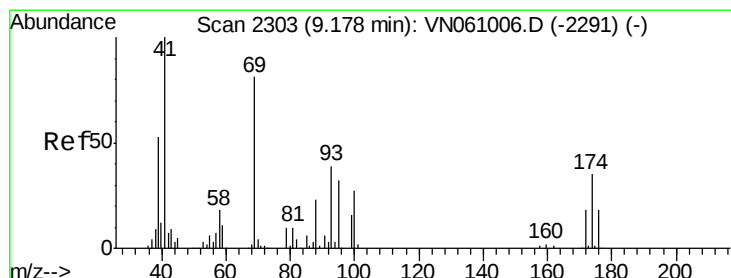
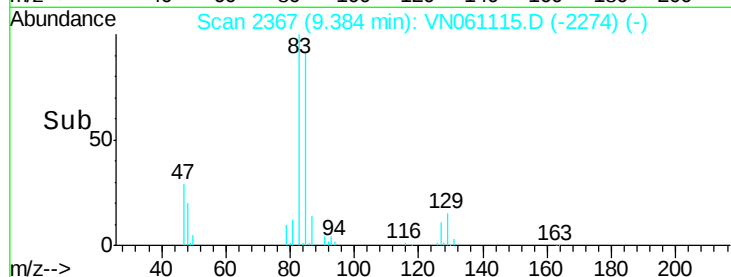
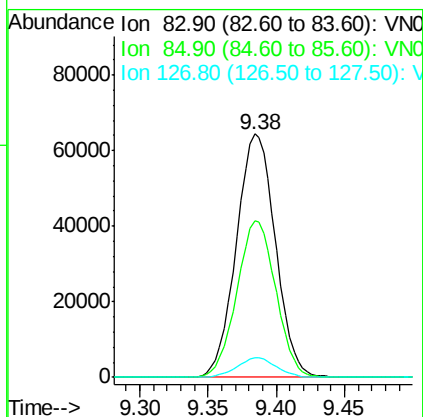
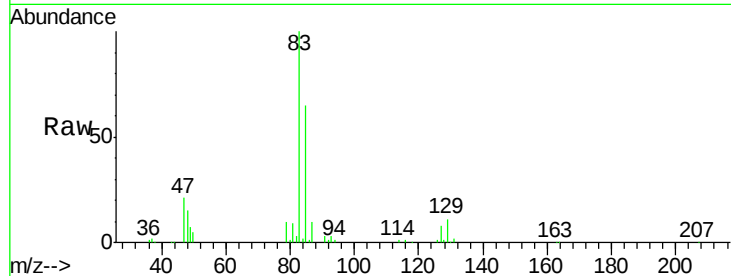
ClientSampleId :

PA-TWP-2MSD

Tot Ion:	83	Resp:	128164
Ion	Ratio	Lower	Upper
83	100		
85	64.5	50.6	76.0
127	8.1	6.1	9.1

Manual Integrations
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#48

Methyl methacrylate

Concen: 50.490 ug/l

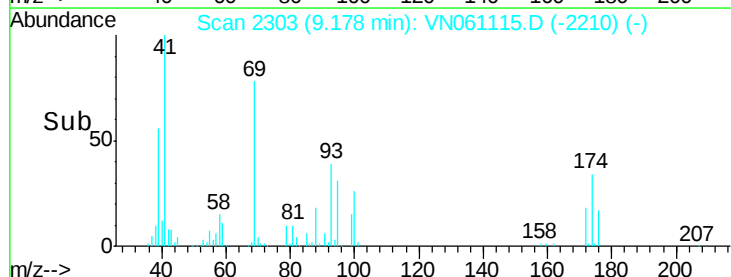
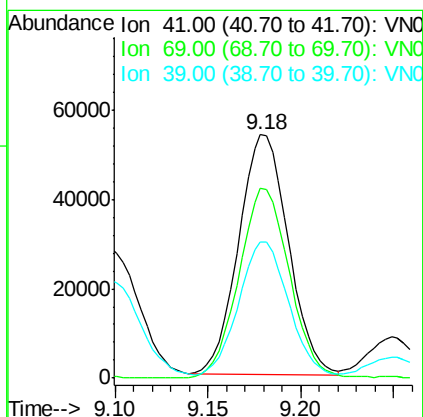
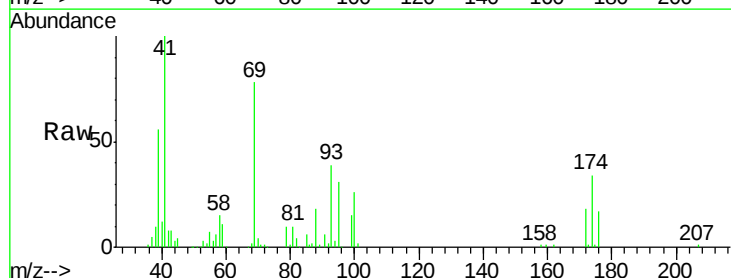
RT: 9.18 min Scan# 2303

Delta R.T. 0.00 min

Lab File: VN061115.D

Acq: 20 Apr 2020 20:23

Tgt Ion:	41	Resp:	100020
Ion	Ratio	Lower	Upper
41	100		
69	80.5	65.3	97.9
39	57.9	45.2	67.8





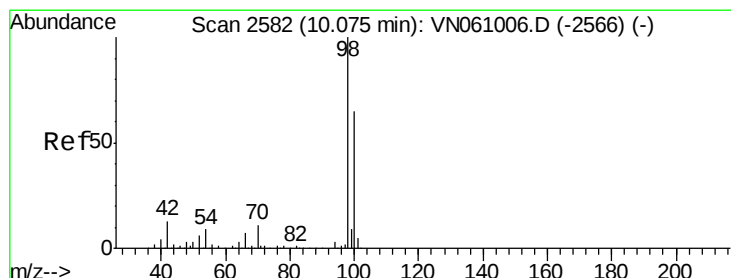
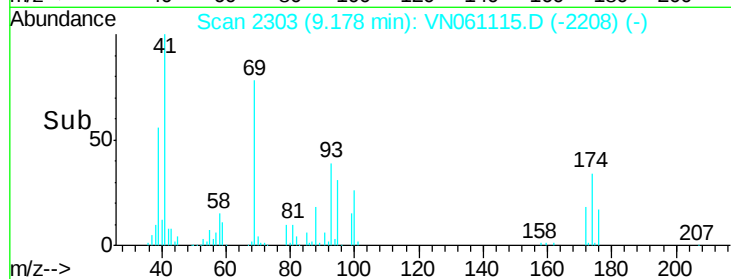
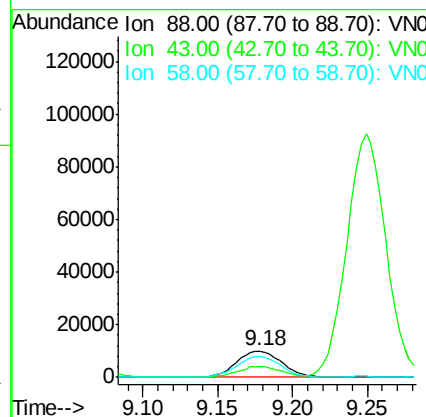
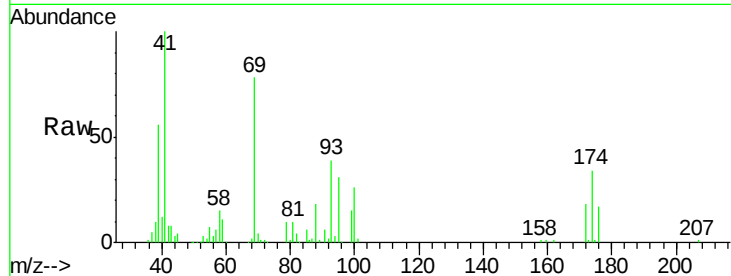
#49
1,4-Dioxane
Concen: 768.463 ug/l
RT: 9.18 min Scan# 2303
Delta R.T. 0.00 min
Lab File: VN061115.D
Acq: 20 Apr 2020 20:23

Instrument :
MSVOA_N
ClientSampleId :
PA-TWP-2MSD

Tot Ion	88	Resp	21049
Ion	Ratio	Lower	Upper
88	100		
43	41.5	30.9	46.3
58	77.7	59.8	89.8

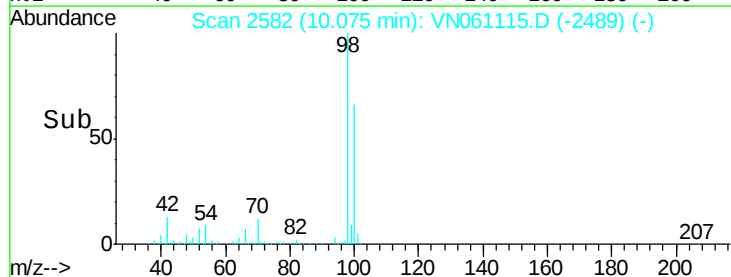
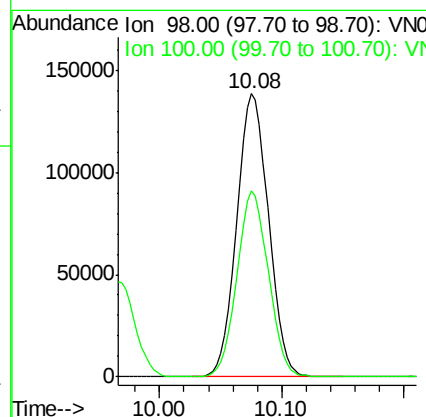
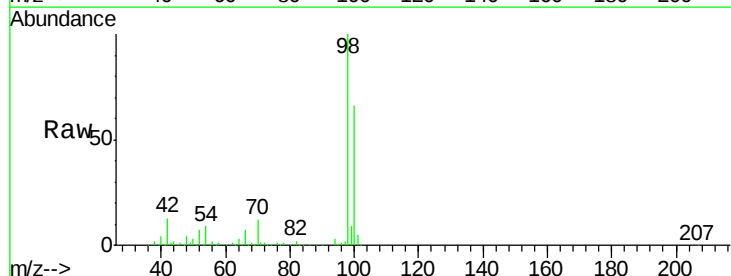
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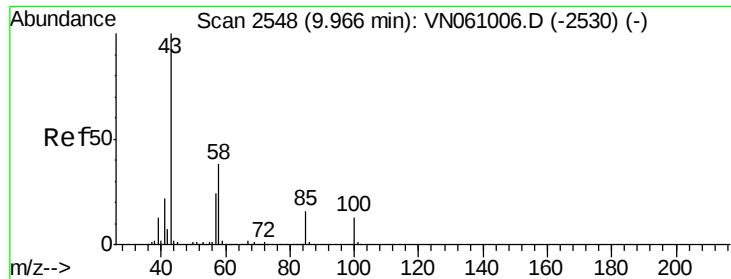
MMDadoda
4/21/2020 12:00:16 PM



#50
Toluene-d8
Concen: 46.140 ug/l
RT: 10.08 min Scan# 2582
Delta R.T. 0.00 min
Lab File: VN061115.D
Acq: 20 Apr 2020 20:23

Tgt Ion	98	Resp	250463
Ion	Ratio	Lower	Upper
98	100		
100	64.9	51.9	77.9





#51

4-Methyl-2-Pentanone

Concen: 248.395 ug/l

RT: 9.97 min Scan# 2548

Delta R.T. 0.00 min

Lab File: VN061115.D

Acq: 20 Apr 2020 20:23

Instrument :

MSVOA_N

ClientSampleId :

PA-TWP-2MSD

Tot Ion: 43 Resp: 641883

Ion Ratio Lower Upper

43 100

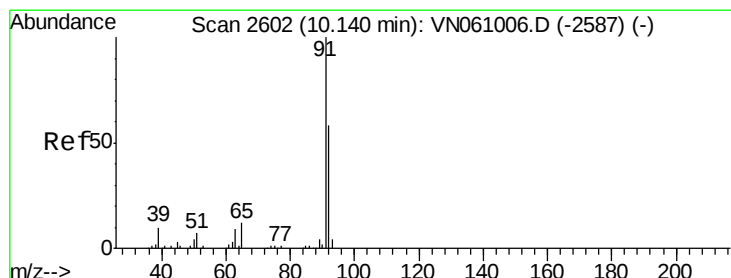
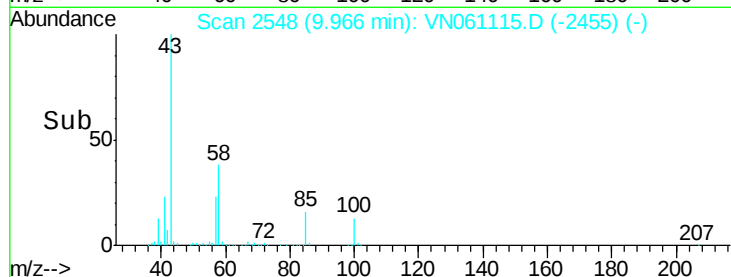
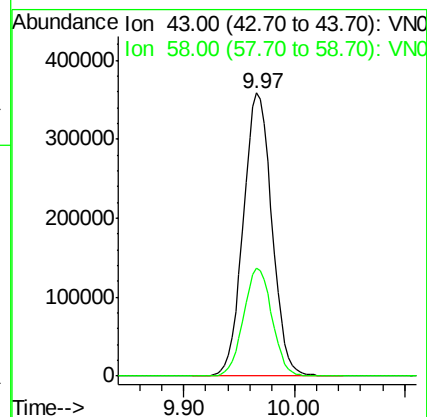
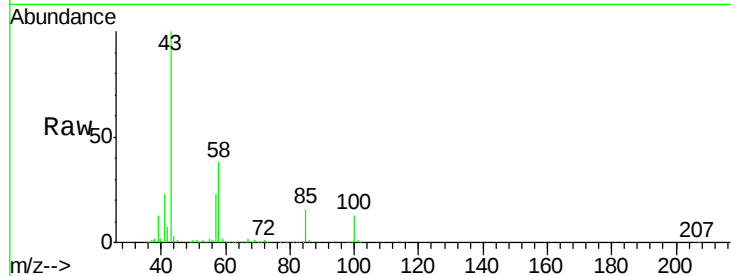
58 38.1 30.3 45.5

Manual Integrations

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#52

Toluene

Concen: 49.623 ug/l

RT: 10.14 min Scan# 2602

Delta R.T. 0.00 min

Lab File: VN061115.D

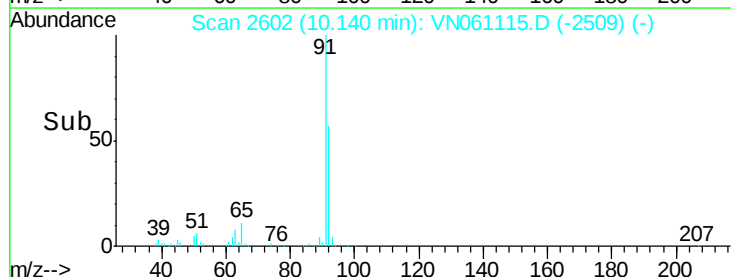
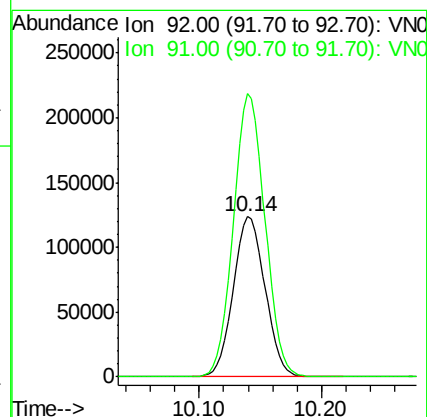
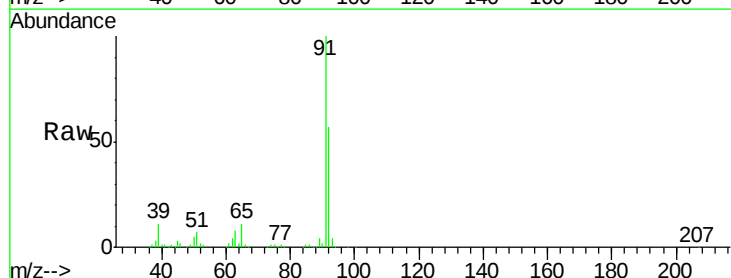
Acq: 20 Apr 2020 20:23

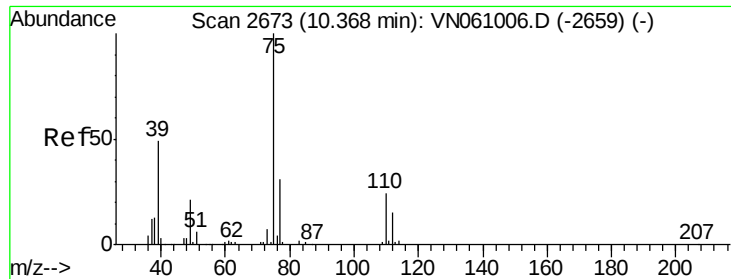
Tgt Ion: 92 Resp: 224179

Ion Ratio Lower Upper

92 100

91 175.6 137.7 206.5





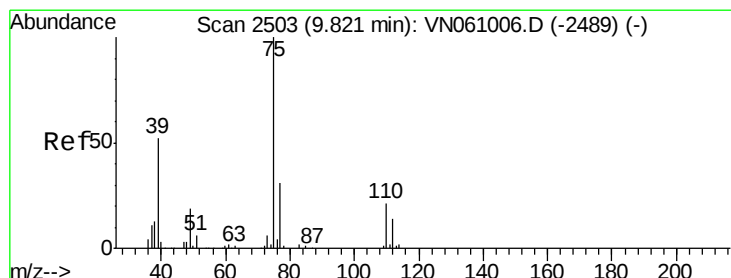
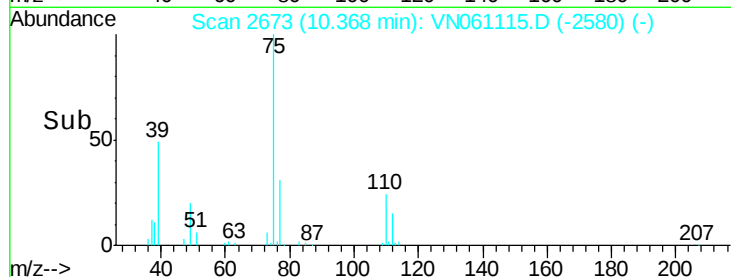
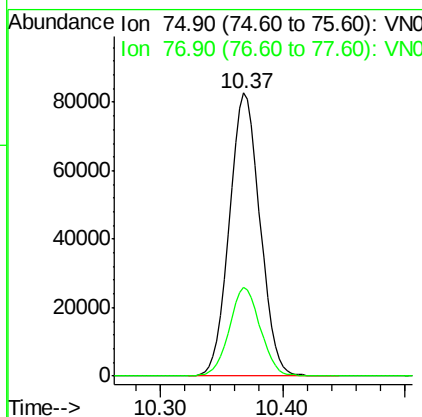
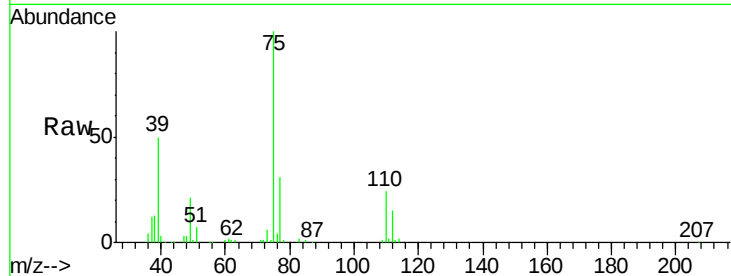
#53
t-1,3-Dichloropropene
Concen: 50.315 ug/l
RT: 10.37 min Scan# 2673
Delta R.T. 0.00 min
Lab File: VN061115.D
Acq: 20 Apr 2020 20:23

Instrument :
MSVOA_N
ClientSampled :
PA-TWP-2MSD

Tot Ion: 75 Resp: 144792
Ion Ratio Lower Upper
75 100
77 31.4 25.0 37.6

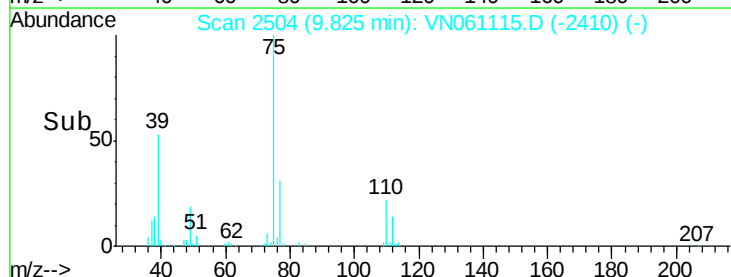
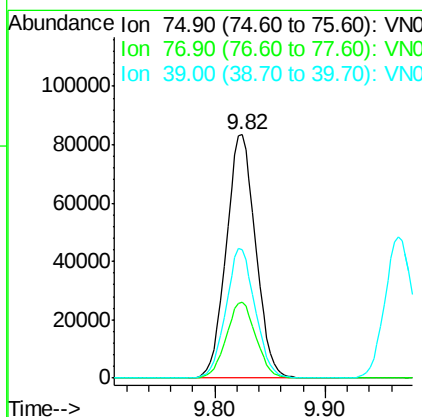
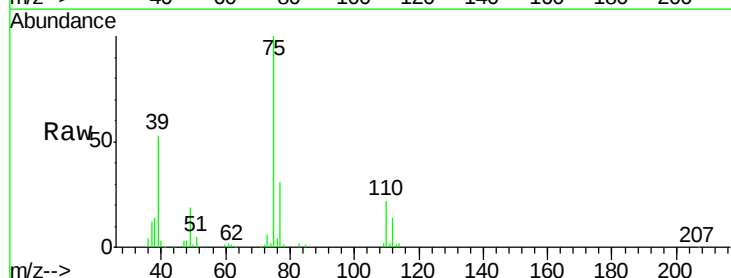
Manual Integrations
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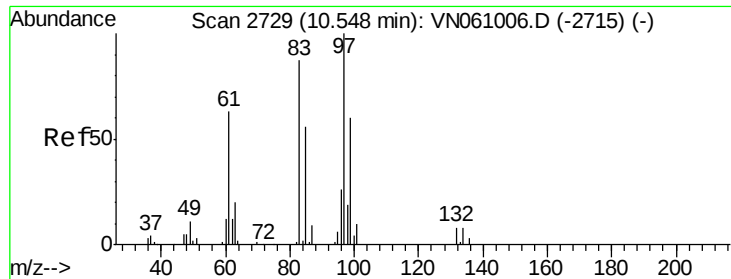
MMDadoda
4/21/2020 12:00:16 PM



#54
cis-1,3-Dichloropropene
Concen: 49.179 ug/l
RT: 9.82 min Scan# 2504
Delta R.T. 0.00 min
Lab File: VN061115.D
Acq: 20 Apr 2020 20:23

Tgt Ion: 75 Resp: 154413
Ion Ratio Lower Upper
75 100
77 31.3 25.0 37.6
39 52.6 41.4 62.2





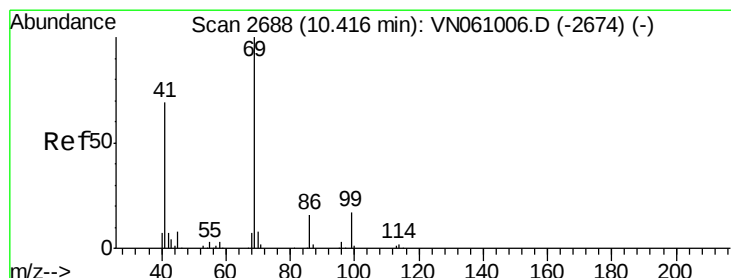
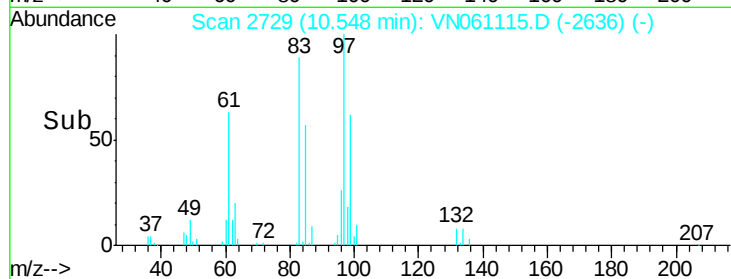
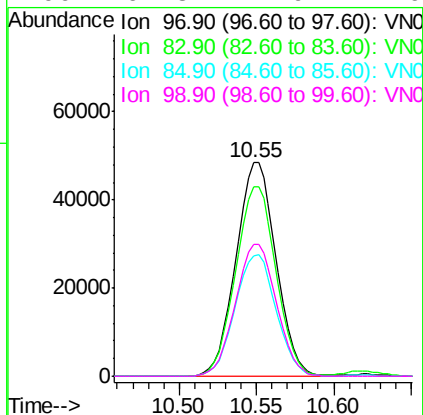
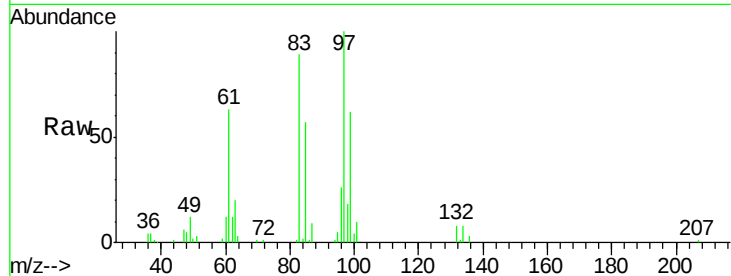
#55
 1,1,2-Trichloroethane
 Concen: 51.085 ug/l
 RT: 10.55 min Scan# 2729
 Delta R.T. 0.00 min
 Lab File: VN061115.D
 Acq: 20 Apr 2020 20:23

Instrument :
 MSVOA_N
 ClientSampleId :
 PA-TWP-2MSD

Tot Ion:	97	Resp:	87335
Ion	Ratio	Lower	Upper
97	100		
83	88.8	69.5	104.3
85	56.6	45.0	67.4
99	61.8	47.9	71.9

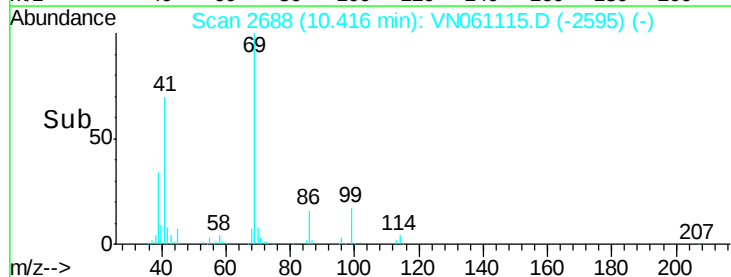
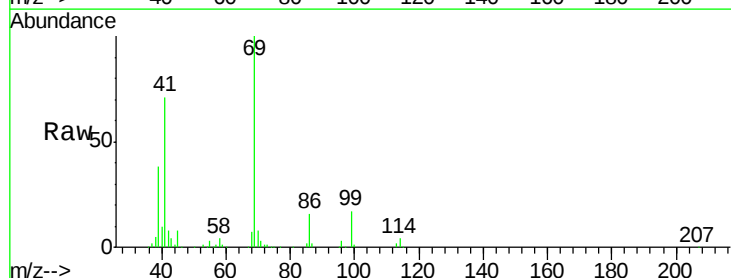
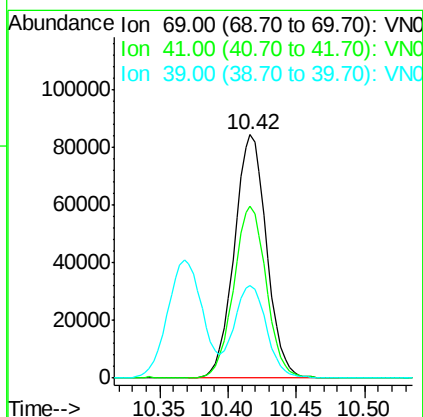
Manual Integrations
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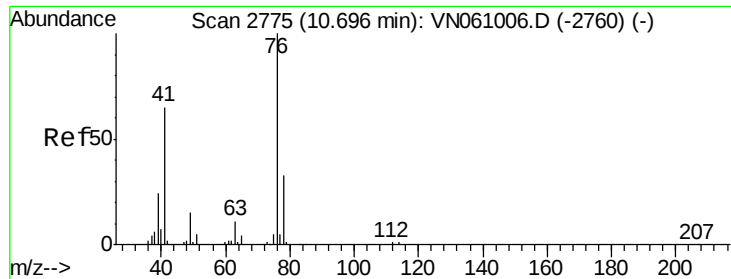
MMDadoda
 4/21/2020 12:00:16 PM



#56
 Ethyl methacrylate
 Concen: 51.636 ug/l
 RT: 10.42 min Scan# 2688
 Delta R.T. 0.00 min
 Lab File: VN061115.D
 Acq: 20 Apr 2020 20:23

Tgt Ion:	69	Resp:	138814
Ion	Ratio	Lower	Upper
69	100		
41	70.5	56.7	85.1
39	38.2	29.4	44.0





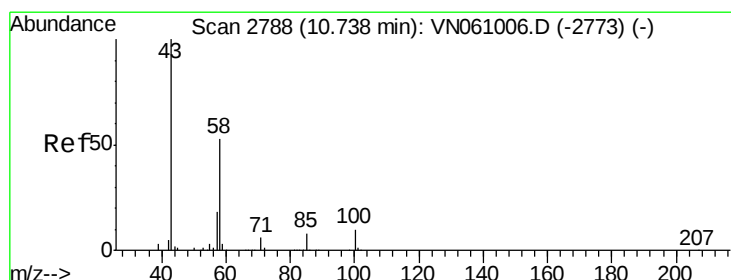
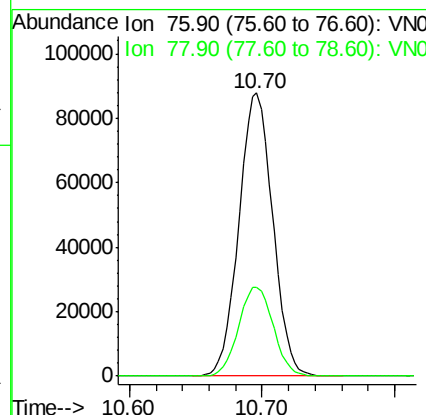
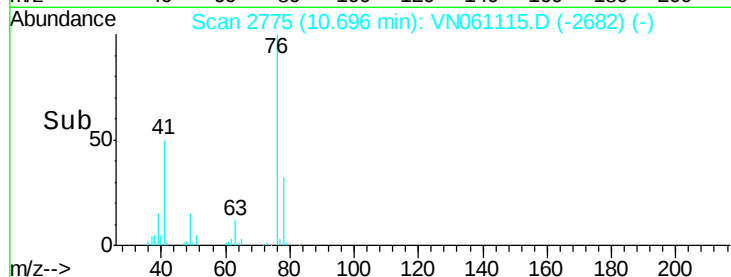
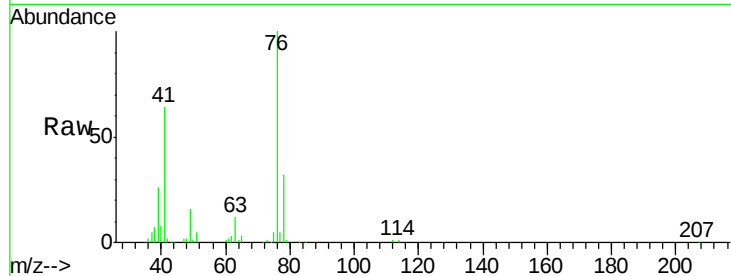
#57
 1,3-Dichloropropane
 Concen: 50.954 ug/l
 RT: 10.70 min Scan# 2775
 Delta R.T. 0.00 min
 Lab File: VN061115.D
 Acq: 20 Apr 2020 20:23

Instrument :
 MSVOA_N
 ClientSampleId :
 PA-TWP-2MSD

Tot Ion: 76 Resp: 155383
 Ion Ratio Lower Upper
 76 100
 78 32.2 25.4 38.0

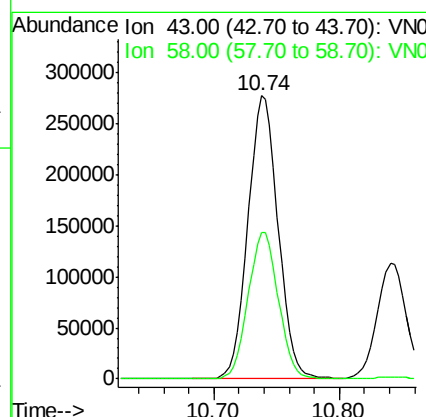
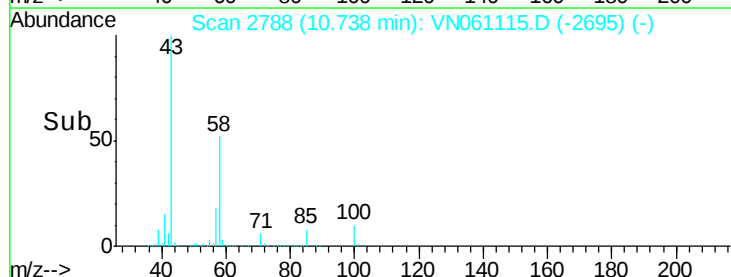
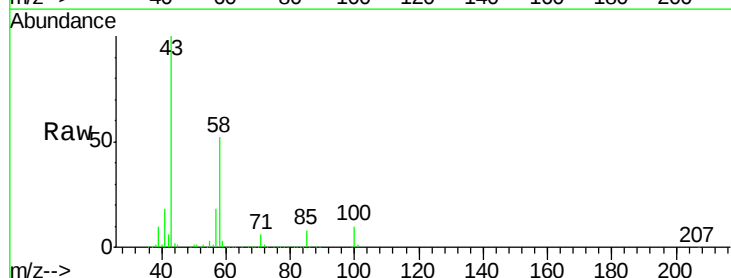
Manual Integrations
 APPROVED

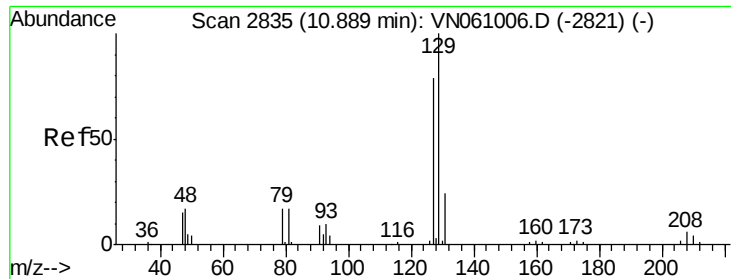
MMDadoda
 4/21/2020 12:00:16 PM



#59
 2-Hexanone
 Concen: 249.102 ug/l
 RT: 10.74 min Scan# 2788
 Delta R.T. 0.00 min
 Lab File: VN061115.D
 Acq: 20 Apr 2020 20:23

Tgt Ion: 43 Resp: 464231
 Ion Ratio Lower Upper
 43 100
 58 52.1 26.4 79.0





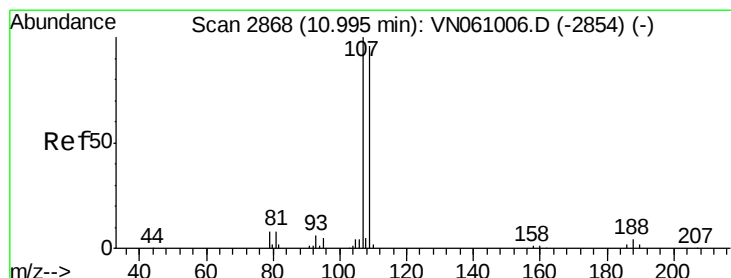
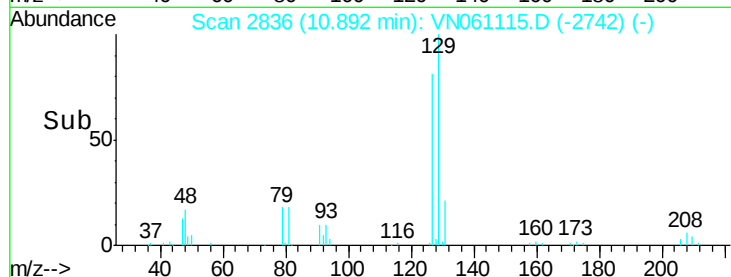
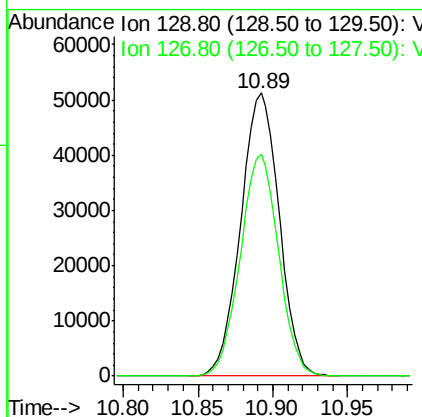
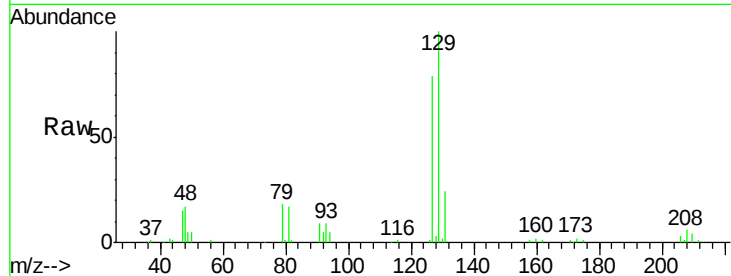
#60
 Dibromochloromethane
 Concen: 52.389 ug/l
 RT: 10.89 min Scan# 2836
 Delta R.T. 0.00 min
 Lab File: VN061115.D
 Acq: 20 Apr 2020 20:23

Instrument :
 MSVOA_N
 ClientSampleId :
 PA-TWP-2MSD

Tot Ion	Ion	Ratio	Lower	Upper
129	100			
127	77.7	39.0	116.9	

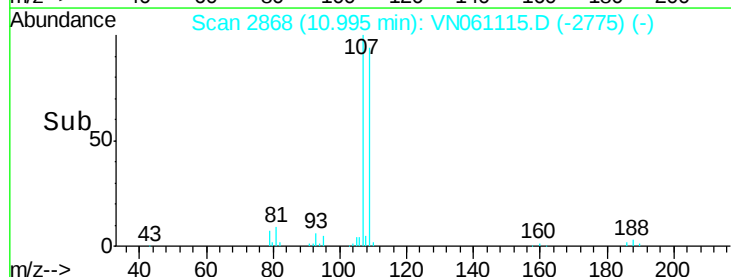
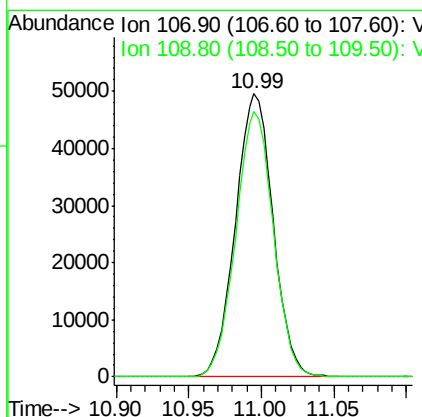
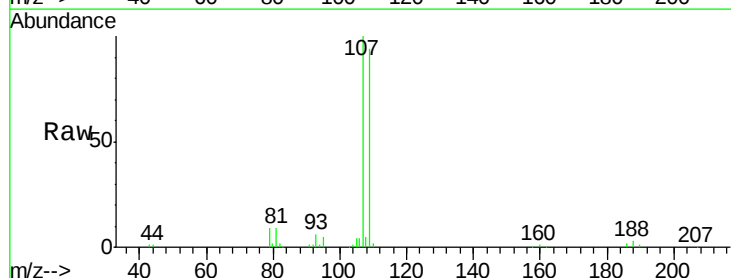
Manual Integrations
 APPROVED

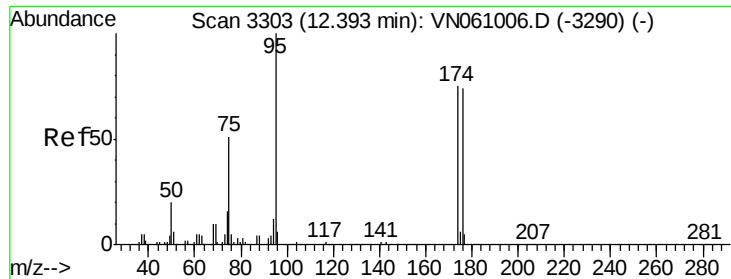
MMDadoda
 4/21/2020 12:00:16 PM



#61
 1,2-Dibromoethane
 Concen: 51.295 ug/l
 RT: 10.99 min Scan# 2868
 Delta R.T. 0.00 min
 Lab File: VN061115.D
 Acq: 20 Apr 2020 20:23

Tgt Ion	Ion	Ratio	Lower	Upper
107	100			
109	93.4	75.9	113.9	





#62

4-Bromofluorobenzene

Concen: 45.568 ug/l

RT: 12.39 min Scan# 3303

Delta R.T. 0.00 min

Lab File: VN061115.D

Acq: 20 Apr 2020 20:23

Instrument :

MSVOA_N

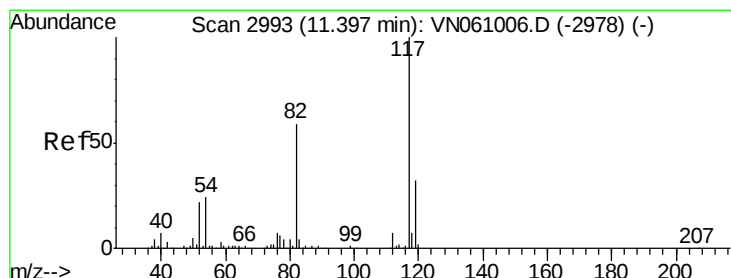
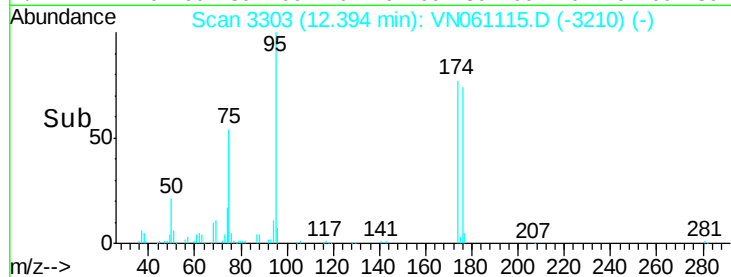
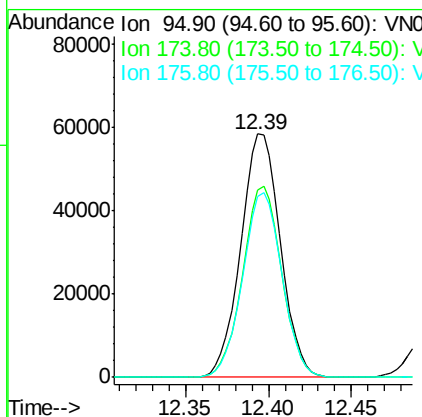
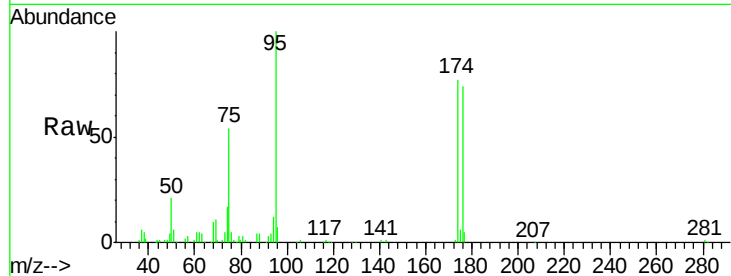
ClientSampleId :

PA-TWP-2MSD

Tot Ion:	95	Resp:	96947
Ion Ratio	Lower	Upper	
95	100		
174	77.2	0.0	151.2
176	75.3	0.0	148.2

Manual Integrations
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#63

Chlorobenzene-d5

Concen: 50.000 ug/l

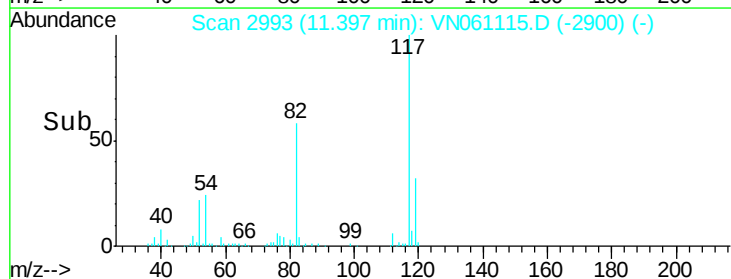
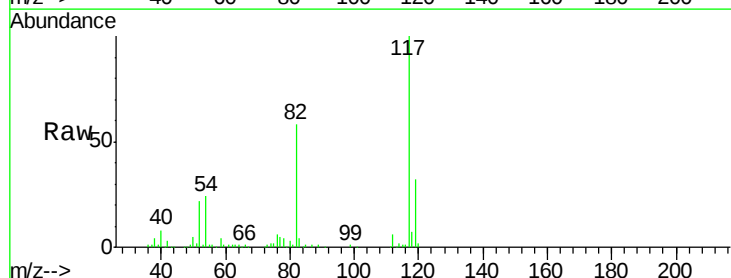
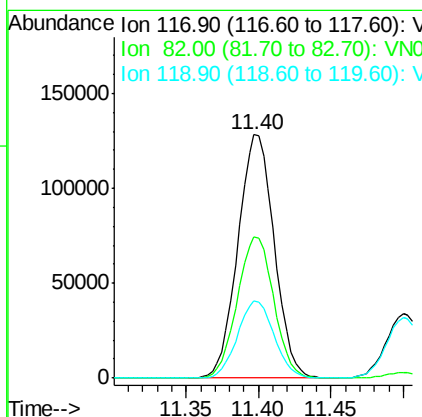
RT: 11.40 min Scan# 2993

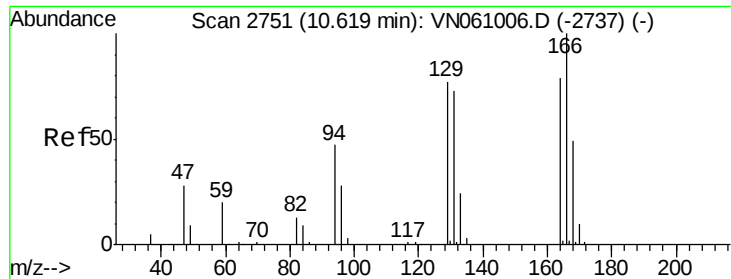
Delta R.T. 0.00 min

Lab File: VN061115.D

Acq: 20 Apr 2020 20:23

Tgt Ion:	117	Resp:	223391
Ion Ratio	Lower	Upper	
117	100		
82	58.0	47.1	70.7
119	31.6	25.7	38.5





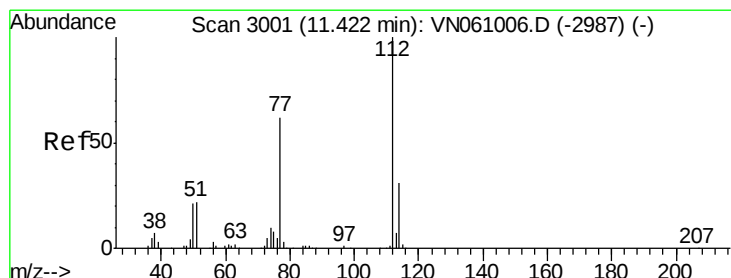
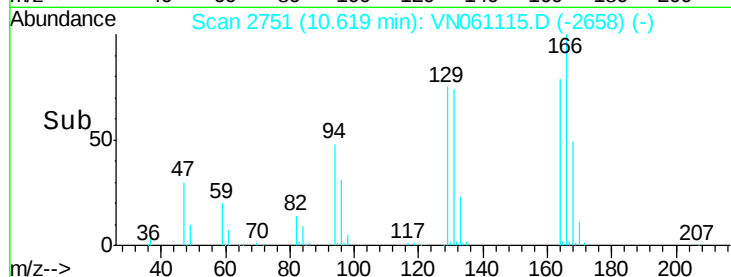
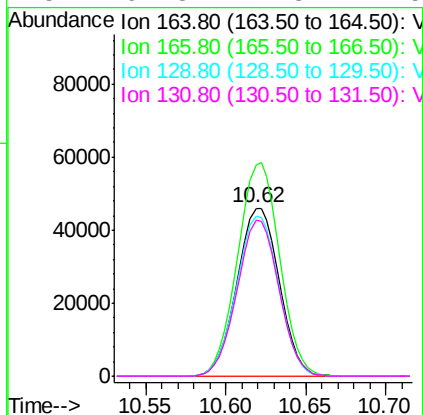
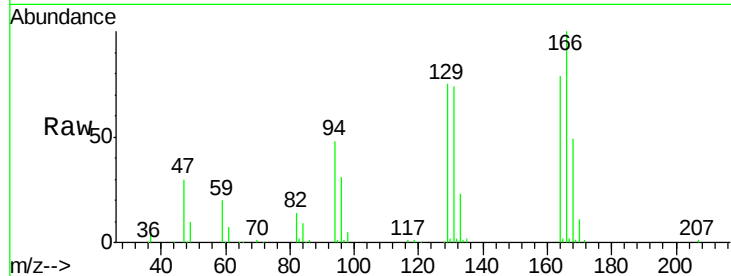
#64
Tetrachloroethene
Concen: 48.529 ug/l
RT: 10.62 min Scan# 2751
Delta R.T. 0.00 min
Lab File: VN061115.D
Acq: 20 Apr 2020 20:23

Instrument :
MSVOA_N
ClientSampleId :
PA-TWP-2MSD

Tot Ion	Ratio	Lower	Upper
164	100		
166	125.9	101.6	152.4
129	94.9	78.5	117.7
131	92.8	74.3	111.5

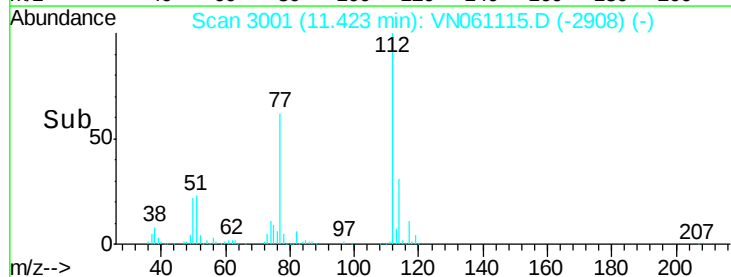
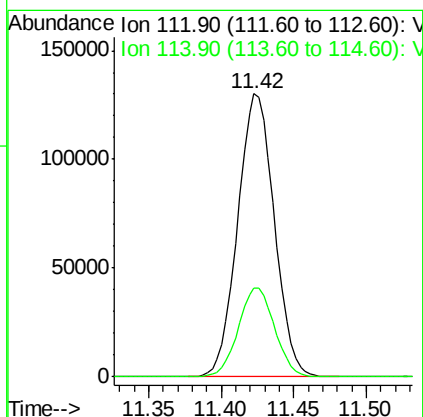
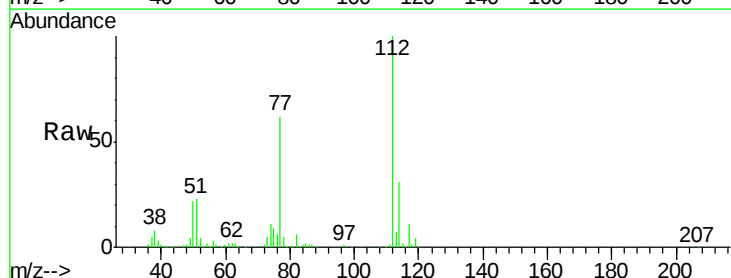
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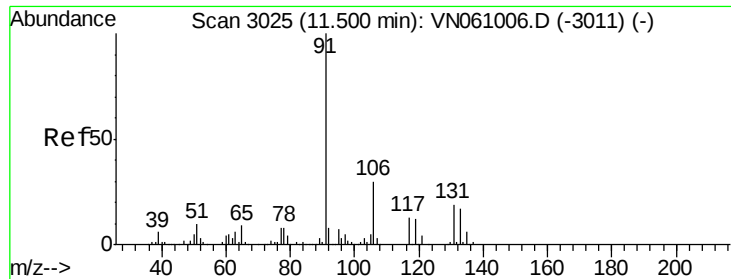
MMDadoda
4/21/2020 12:00:16 PM



#65
Chlorobenzene
Concen: 49.577 ug/l
RT: 11.42 min Scan# 3001
Delta R.T. 0.00 min
Lab File: VN061115.D
Acq: 20 Apr 2020 20:23

Tgt Ion	Ratio	Lower	Upper
112	100		
114	31.5	25.1	37.7





#66

1,1,1,2-Tetrachloroethane

Concen: 50.562 ug/l

RT: 11.50 min Scan# 3025

Delta R.T. 0.00 min

Lab File: VN061115.D

Acq: 20 Apr 2020 20:23

Instrument :

MSVOA_N

ClientSampleId :

PA-TWP-2MSD

Tot Ion:131 Resp: 83422

Ion Ratio Lower Upper

131 100

133 95.6 47.9 143.8

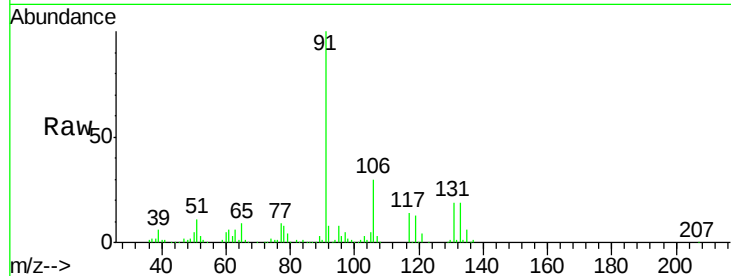
119 66.2 33.3 99.8

Manual Integrations

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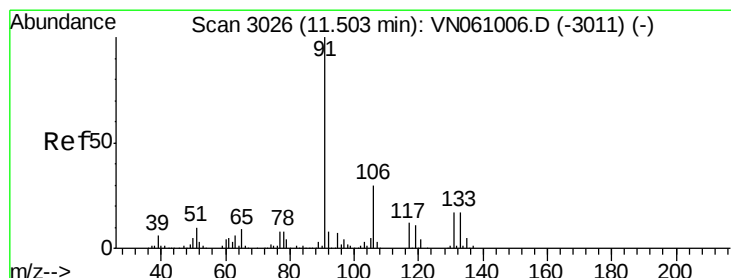
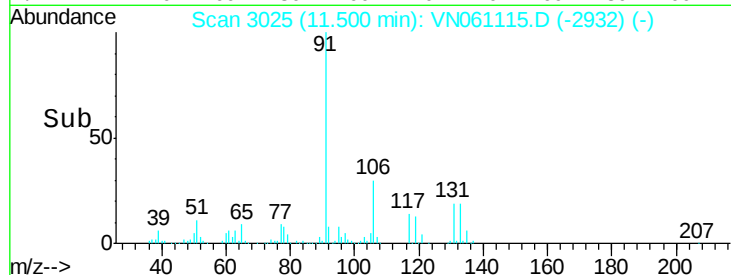
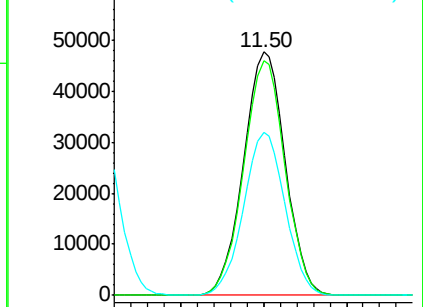
4/21/2020 12:00:16 PM



Abundance Ion 130.80 (130.50 to 131.50): V

Ion 132.80 (132.50 to 133.50): V

Ion 118.80 (118.50 to 119.50): V



#67

Ethyl Benzene

Concen: 48.739 ug/l

RT: 11.50 min Scan# 3026

Delta R.T. 0.00 min

Lab File: VN061115.D

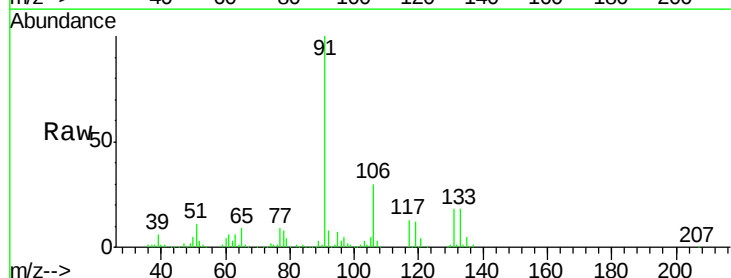
Acq: 20 Apr 2020 20:23

Tgt Ion: 91 Resp: 422789

Ion Ratio Lower Upper

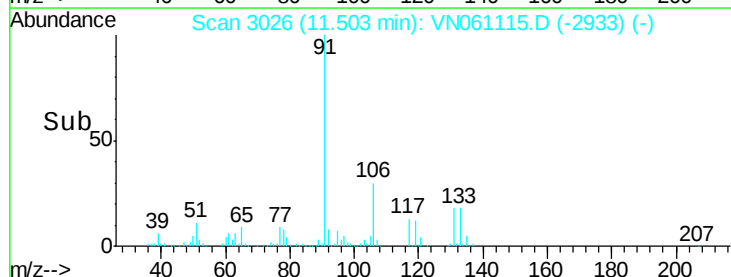
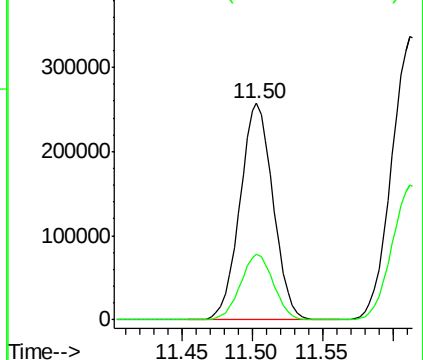
91 100

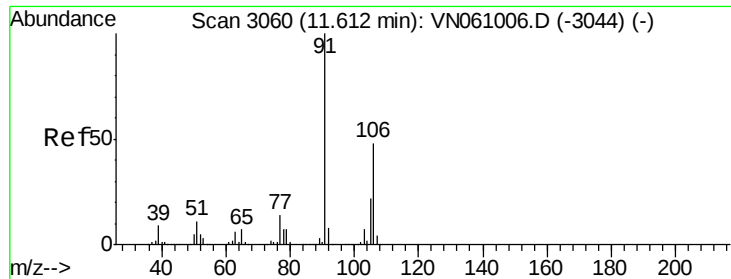
106 30.3 23.8 35.8



Abundance Ion 91.00 (90.70 to 91.70): V

Ion 106.00 (105.70 to 106.70): V





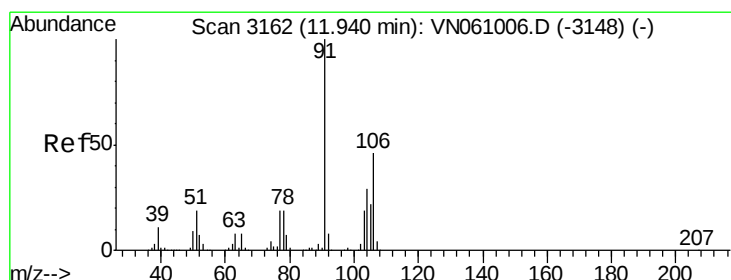
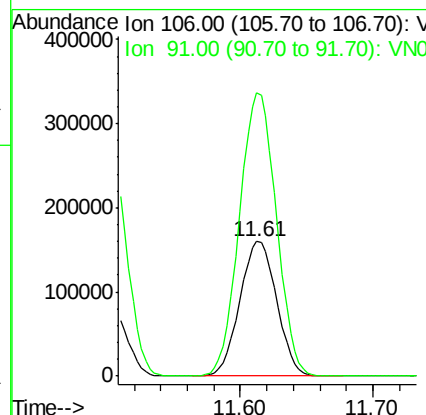
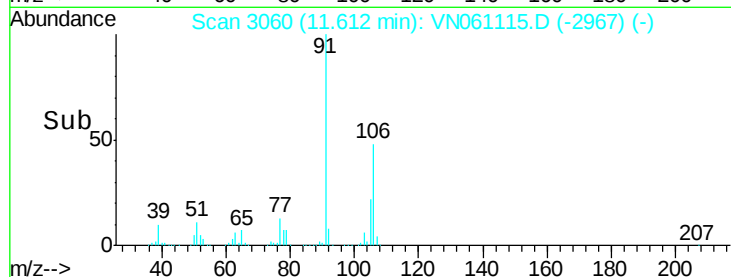
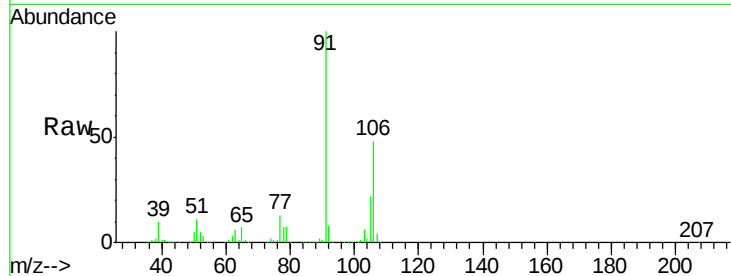
#68
m/p-Xylenes
Concen: 98.586 ug/l
RT: 11.61 min Scan# 3060
Delta R.T. 0.00 min
Lab File: VN061115.D
Acq: 20 Apr 2020 20:23

Instrument :
MSVOA_N
ClientSampled :
PA-TWP-2MSD

Tot Ion	Ion	Ratio	Resp	Lower	Upper
106	100				
91	210.0	167.9	251.9		

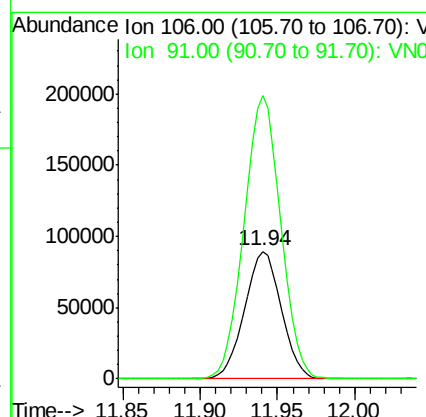
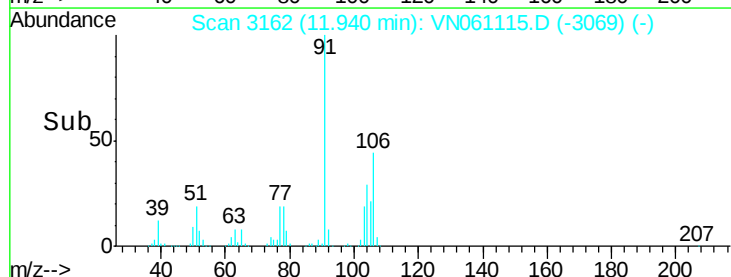
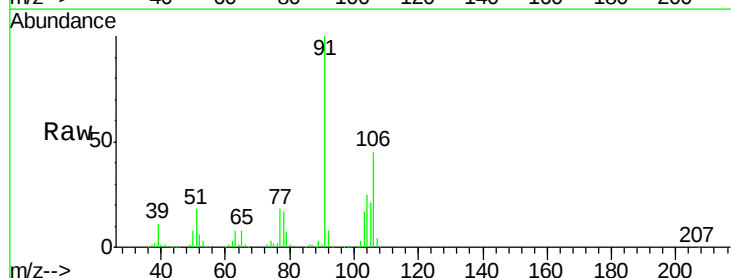
Manual Integrations
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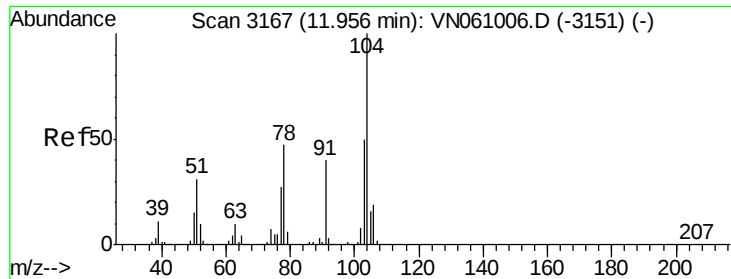
MMDadoda
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#69
o-Xylene
Concen: 48.967 ug/l
RT: 11.94 min Scan# 3162
Delta R.T. 0.00 min
Lab File: VN061115.D
Acq: 20 Apr 2020 20:23

Tgt Ion	Ion	Ratio	Resp	Lower	Upper
106	100				
91	221.9	110.7	332.1		





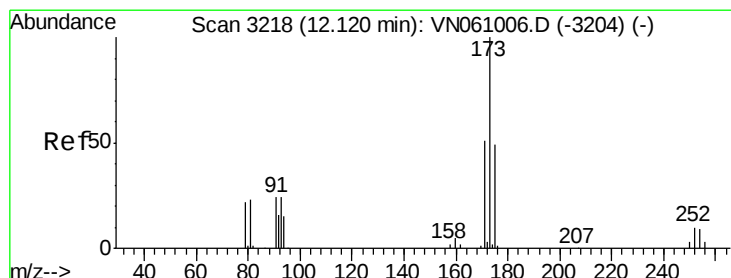
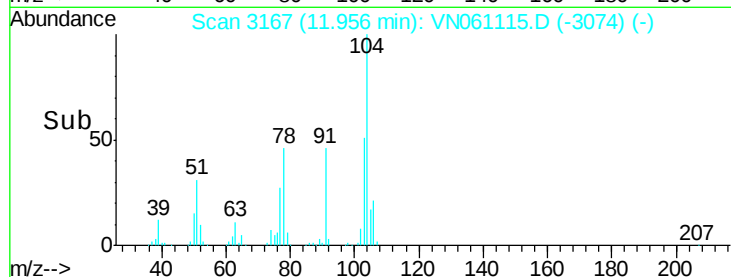
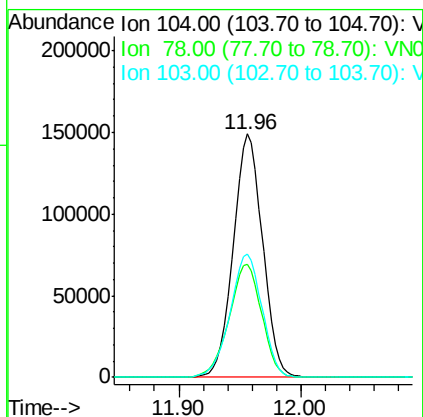
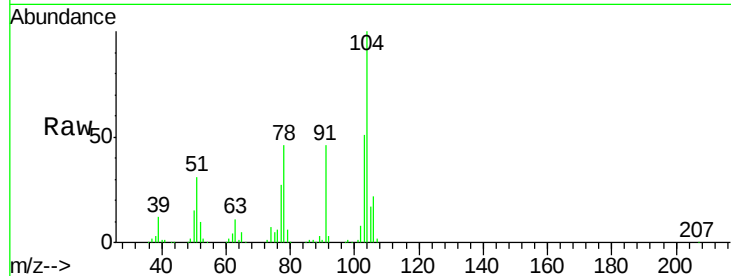
#70
Stvrene
Concen: 51.224 ug/l
RT: 11.96 min Scan# 3167
Delta R.T. 0.00 min
Lab File: VN061115.D
Acq: 20 Apr 2020 20:23

Instrument :
MSVOA_N
ClientSampleId :
PA-TWP-2MSD

Tot Ion	Ratio	Resp	Lower	Upper
104	100	248572		
78	51.8		42.2	63.4
103	55.3		44.4	66.6

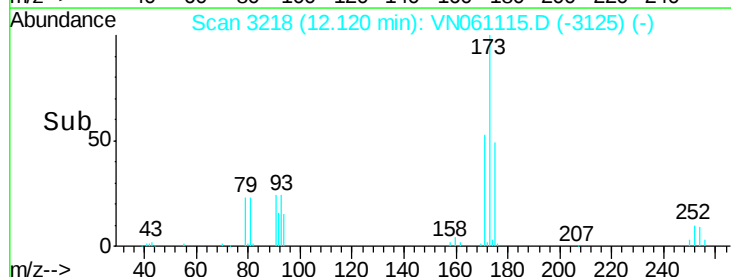
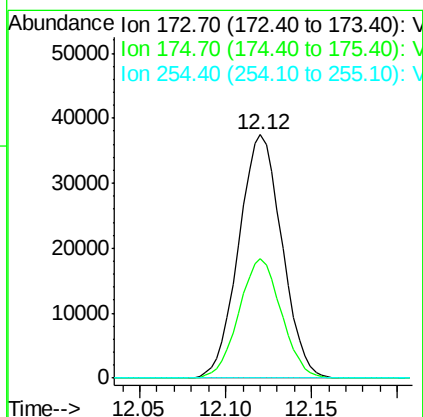
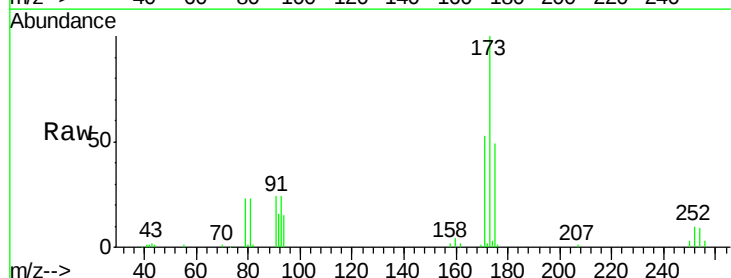
Manual Integrations
APPROVED

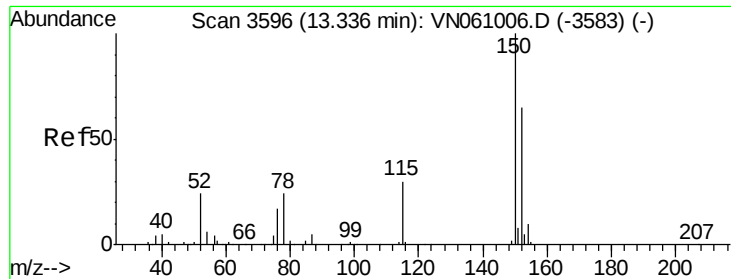
MMDadoda
4/21/2020 12:00:16 PM



#71
Bromoform
Concen: 52.864 ug/l
RT: 12.12 min Scan# 3218
Delta R.T. 0.00 min
Lab File: VN061115.D
Acq: 20 Apr 2020 20:23

Tgt Ion	Ratio	Resp	Lower	Upper
173	100	65104		
175	48.1		24.5	73.5
254	0.0		0.0	0.0





#72

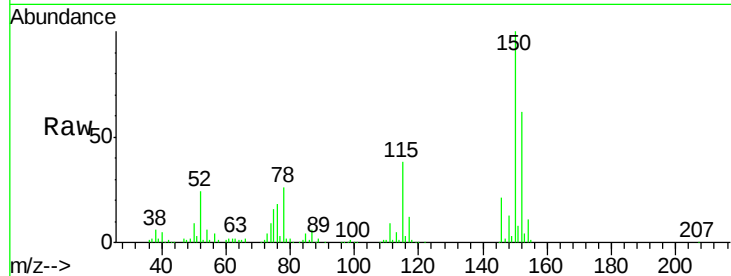
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 13.34 min Scan# 3597
Delta R.T. 0.00 min
Lab File: VN061115.D
Acq: 20 Apr 2020 20:23

Instrument :
MSVOA_N
ClientSampleId :
PA-TWP-2MSD

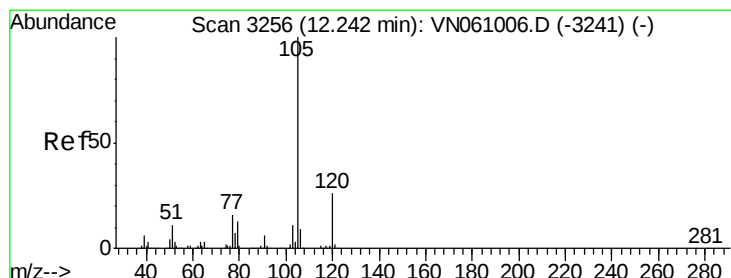
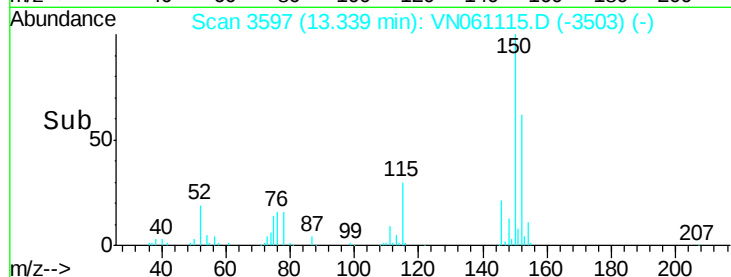
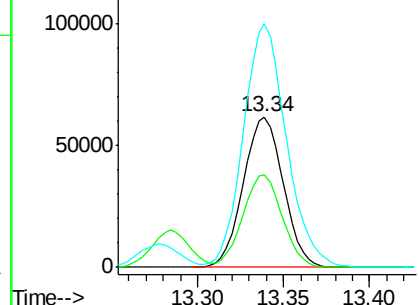
Tot Ion	Ratio	Lower	Upper
152	100		
115	61.0	30.8	92.4
150	174.2	0.0	349.0

Manual Integrations
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4/21/2020 12:00:16 PM



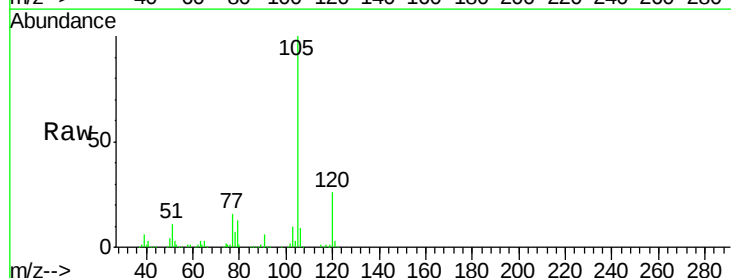
Abundance Ion 151.90 (151.60 to 152.60): V
Ion 114.90 (114.60 to 115.60): V
Ion 149.90 (149.60 to 150.60): V



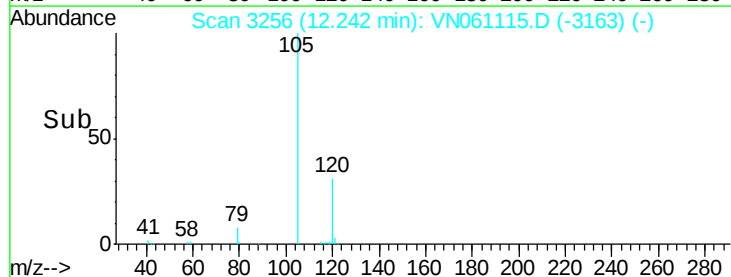
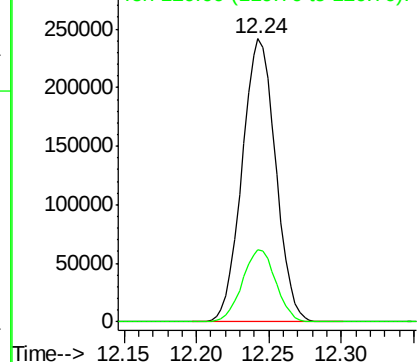
#73

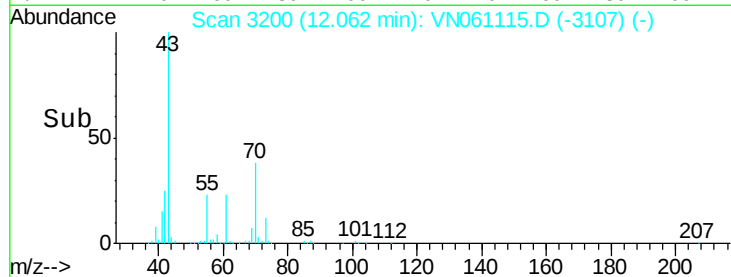
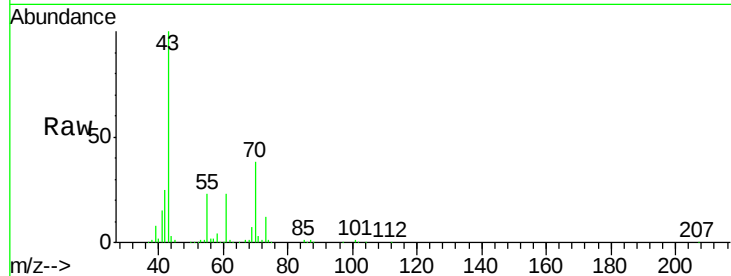
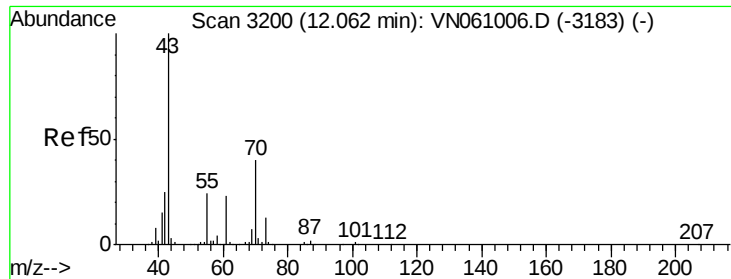
Isopropylbenzene
Concen: 48.480 ug/l
RT: 12.24 min Scan# 3256
Delta R.T. 0.00 min
Lab File: VN061115.D
Acq: 20 Apr 2020 20:23

Tgt Ion	Ratio	Lower	Upper
105	100		
120	25.6	13.0	38.9



Abundance Ion 105.00 (104.70 to 105.70): V
Ion 120.00 (119.70 to 120.70): V





#74

N-amvl acetate

Concen: 48.672 ug/l

RT: 12.06 min Scan# 3200

Delta R.T. 0.00 min

Lab File: VN061115.D

Acq: 20 Apr 2020 20:23

Tot Ion	43	Resp	181274
Ion Ratio	Lower	Upper	
43	100		
70	38.5	31.0	46.6
55	23.6	18.6	27.8
61	23.0	18.2	27.4

Instrument :

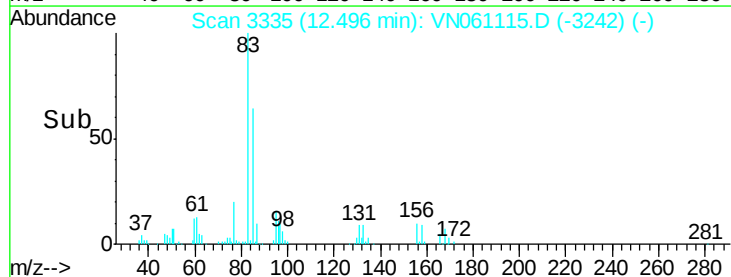
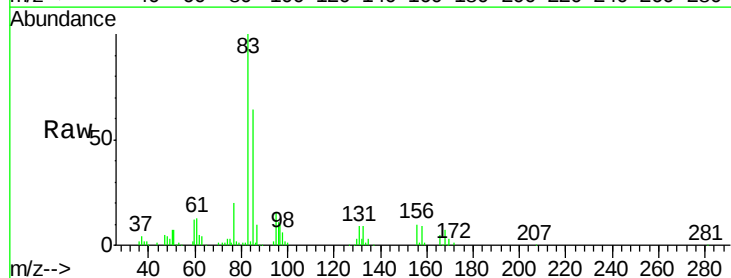
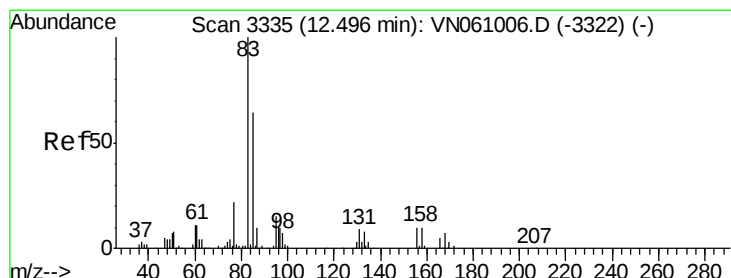
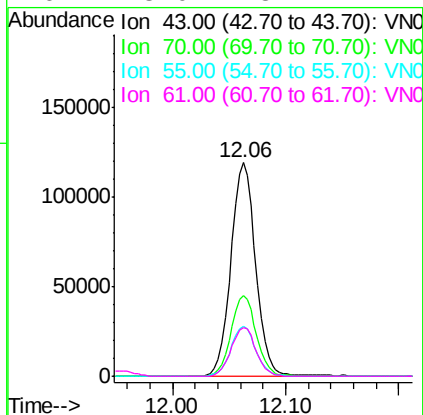
MSVOA_N

ClientSampleId :

PA-TWP-2MSD

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#75

1,1,2,2-Tetrachloroethane

Concen: 51.308 ug/l

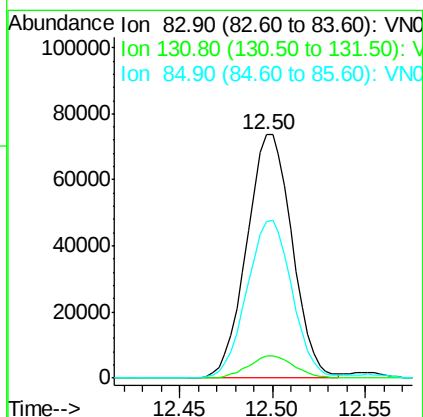
RT: 12.50 min Scan# 3335

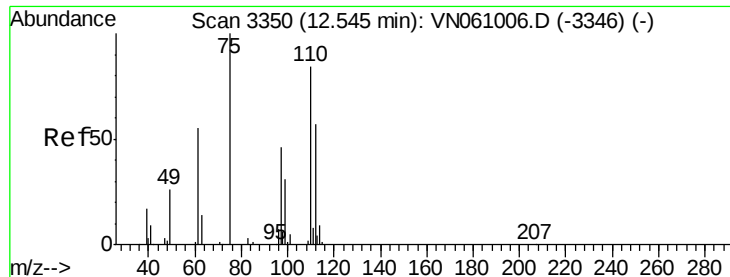
Delta R.T. 0.00 min

Lab File: VN061115.D

Acq: 20 Apr 2020 20:23

Tgt Ion	83	Resp	125436
Ion Ratio	Lower	Upper	
83	100		
131	9.3	4.8	14.3
85	64.5	32.3	96.8





#76

1,2,3-Trichloropropane

Concen: 50.426 ug/l m

RT: 12.55 min Scan# 3351

Delta R.T. 0.00 min

Lab File: VN061115.D

Acq: 20 Apr 2020 20:23

Instrument :

MSVOA_N

ClientSampleId :

PA-TWP-2MSD

Tot Ion: 75 Resp: 110879

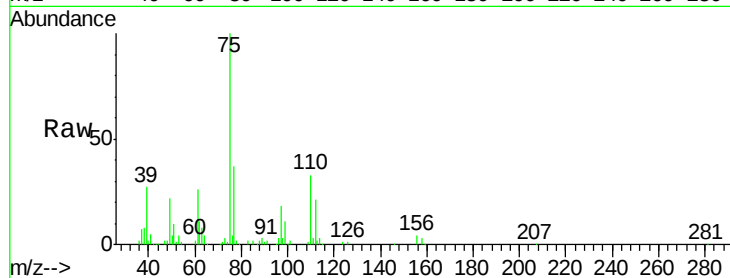
Ion Ratio Lower Upper

75 100

77 0.0 0.0 0.0

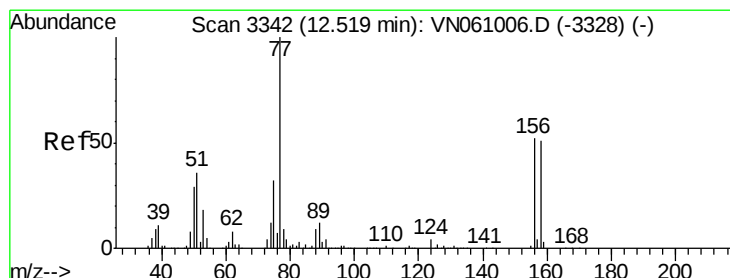
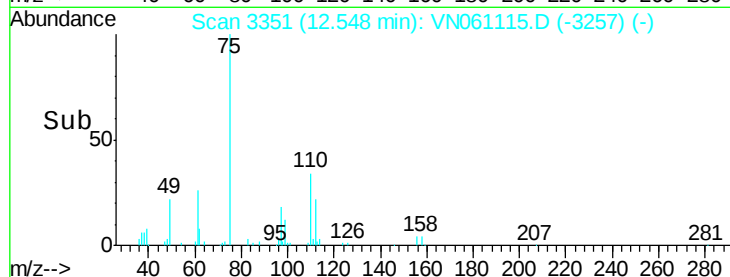
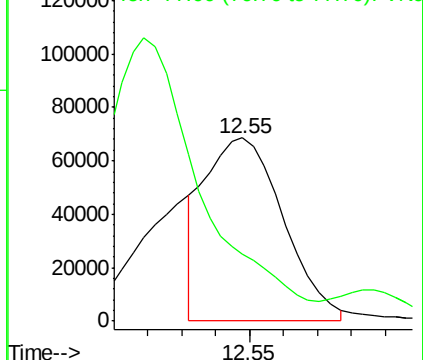
Manual Integrations
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4/21/2020 12:00:16 PM



Abundance Ion 74.90 (74.60 to 75.60): VN061115.D (-3257) (-)

Ion 77.00 (76.70 to 77.70): VN061115.D (-3257) (-)



#77

Bromobenzene

Concen: 50.203 ug/l

RT: 12.52 min Scan# 3342

Delta R.T. 0.00 min

Lab File: VN061115.D

Acq: 20 Apr 2020 20:23

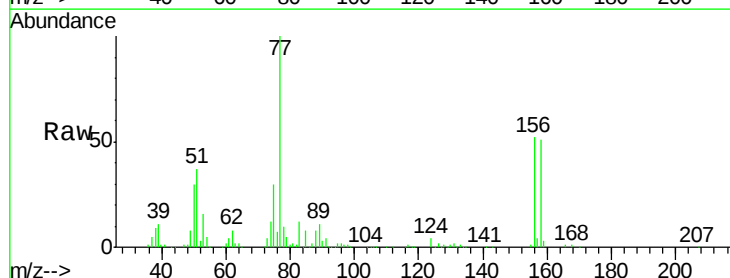
Tgt Ion: 156 Resp: 93876

Ion Ratio Lower Upper

156 100

77 231.2 115.6 346.8

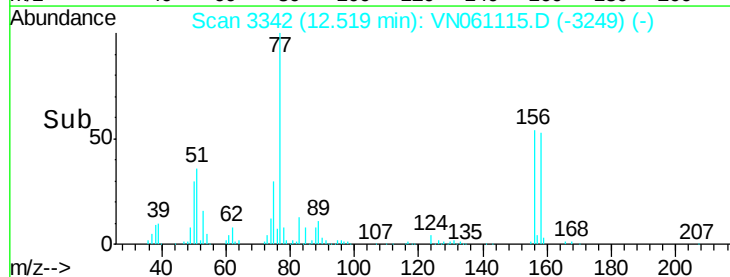
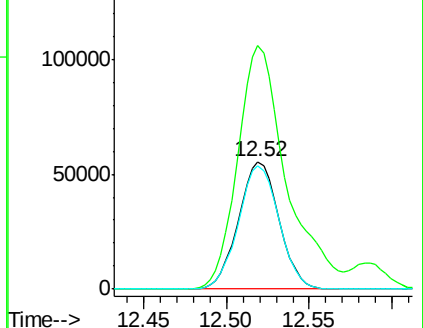
158 97.3 48.9 146.6

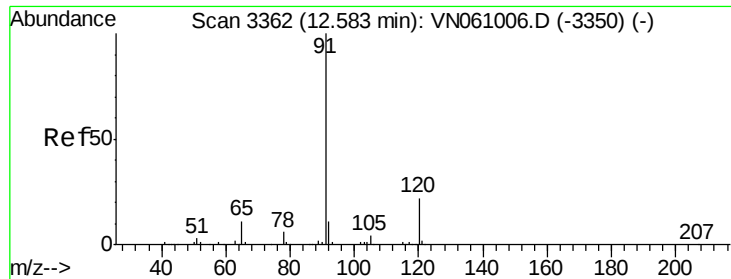


Abundance Ion 155.80 (155.50 to 156.50): VN061115.D (-3249) (-)

Ion 77.00 (76.70 to 77.70): VN061115.D (-3249) (-)

Ion 157.80 (157.50 to 158.50): VN061115.D (-3249) (-)





#78

n-propylbenzene

Concen: 48.570 ug/l

RT: 12.59 min Scan# 3363

Delta R.T. 0.00 min

Lab File: VN061115.D

Acq: 20 Apr 2020 20:23

Instrument :

MSVOA_N

ClientSampleId :

PA-TWP-2MSD

Tot Ion: 91 Resp: 455105

Ion Ratio Lower Upper

91 100

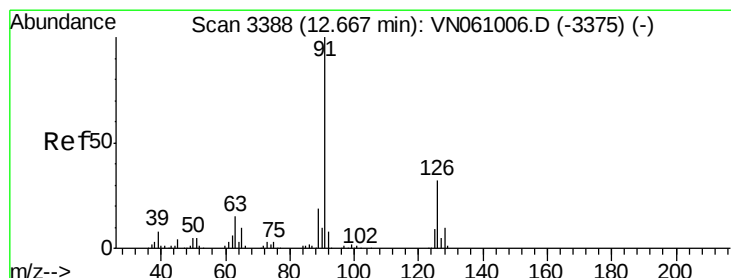
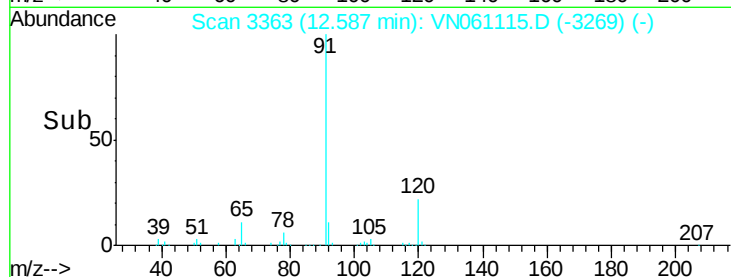
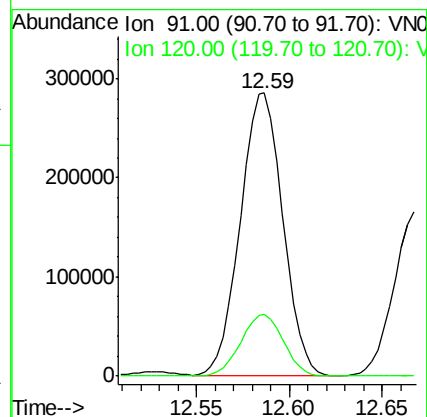
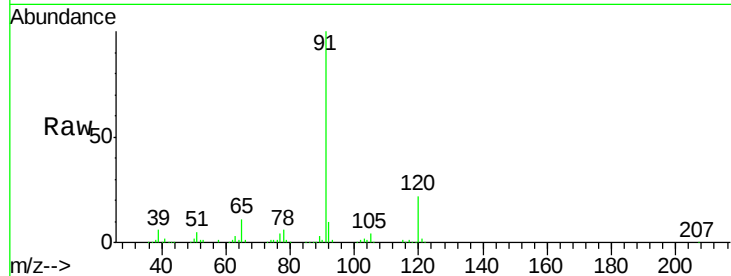
120 21.8 10.9 32.7

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#79

2-Chlorotoluene

Concen: 49.194 ug/l

RT: 12.67 min Scan# 3388

Delta R.T. 0.00 min

Lab File: VN061115.D

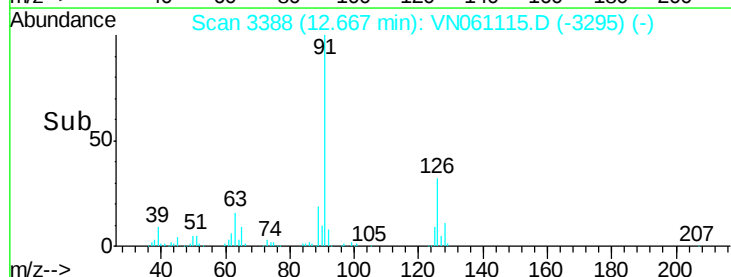
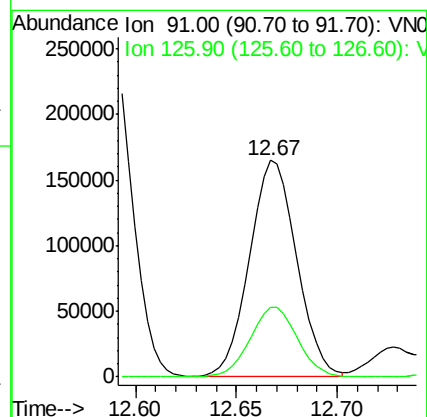
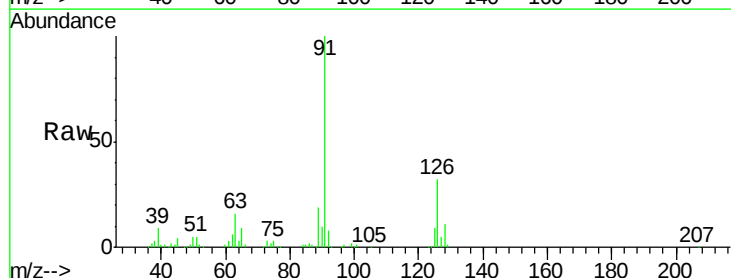
Acq: 20 Apr 2020 20:23

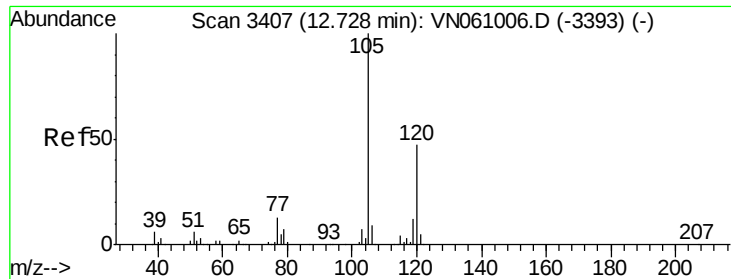
Tgt Ion: 91 Resp: 270352

Ion Ratio Lower Upper

91 100

126 32.4 16.1 48.2





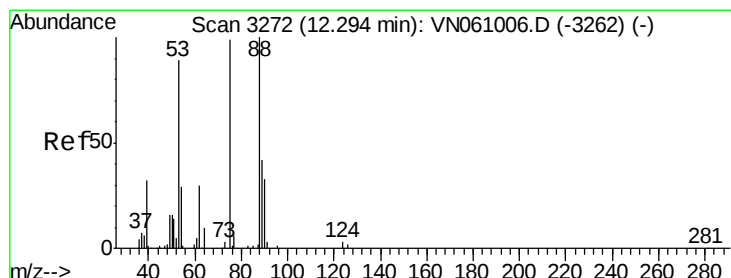
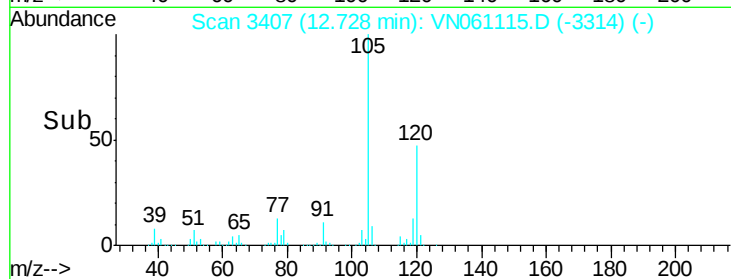
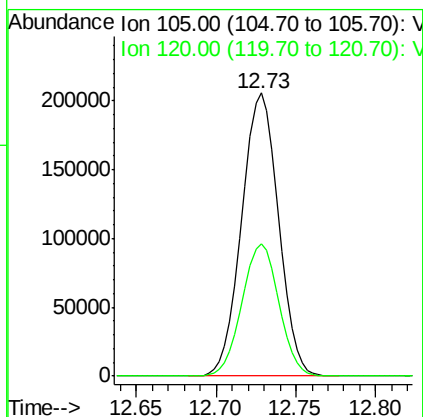
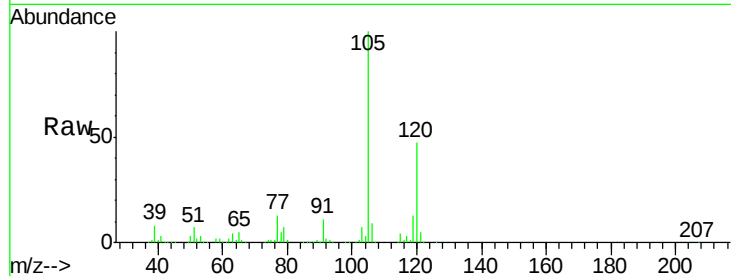
#80
 1,3,5-Trimethylbenzene
 Concen: 48.538 ug/l
 RT: 12.73 min Scan# 3407
 Delta R.T. 0.00 min
 Lab File: VN061115.D
 Acq: 20 Apr 2020 20:23

Instrument :
 MSVOA_N
 ClientSampled :
 PA-TWP-2MSD

Tot Ion	Ratio	Lower	Upper
105	100		
120	47.0	23.6	70.8

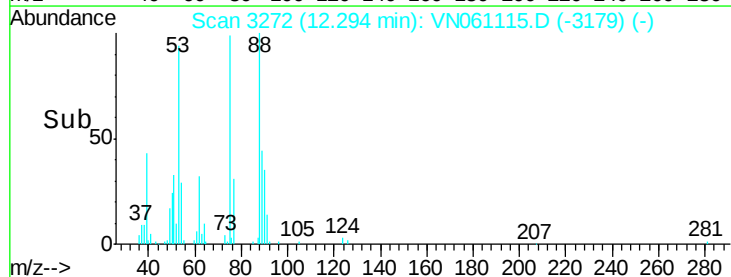
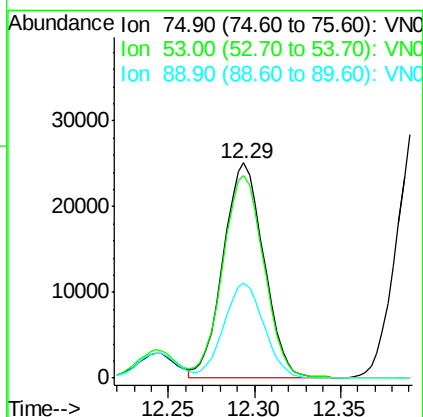
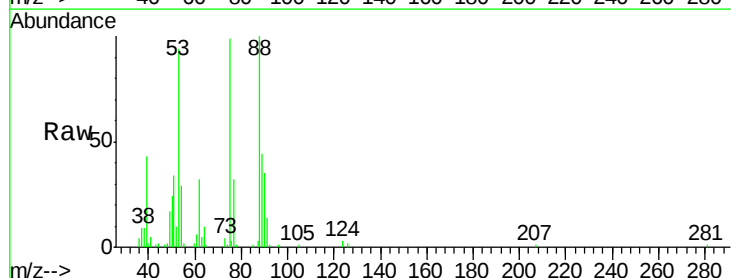
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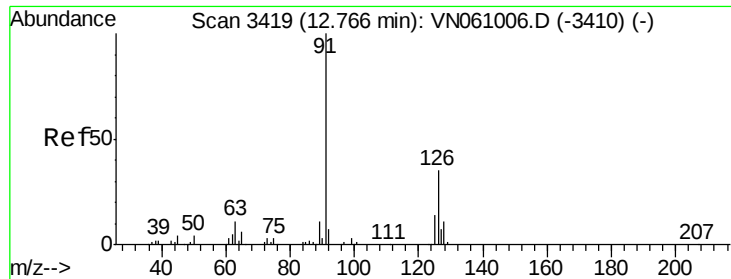
MMDadoda
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#81
 trans-1,4-Dichloro-2-butene
 Concen: 46.428 ug/l
 RT: 12.29 min Scan# 3272
 Delta R.T. 0.00 min
 Lab File: VN061115.D
 Acq: 20 Apr 2020 20:23

Tgt Ion	Ratio	Lower	Upper
75	100		
53	95.7	74.7	112.1
89	43.3	34.6	52.0





#82

4-Chlorotoluene

Concen: 49.746 ug/l

RT: 12.77 min Scan# 3419

Delta R.T. 0.00 min

Lab File: VN061115.D

Acq: 20 Apr 2020 20:23

Instrument :

MSVOA_N

ClientSampleId :

PA-TWP-2MSD

Tot Ion: 91 Resp: 283539

Ion Ratio Lower Upper

91 100

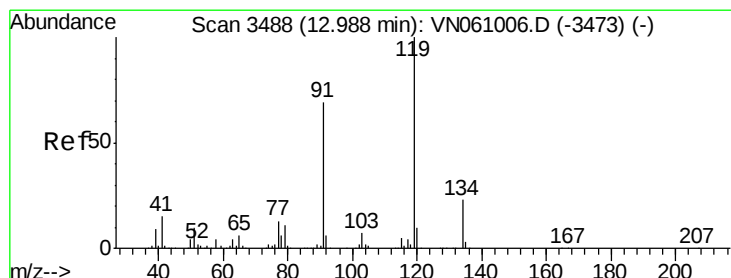
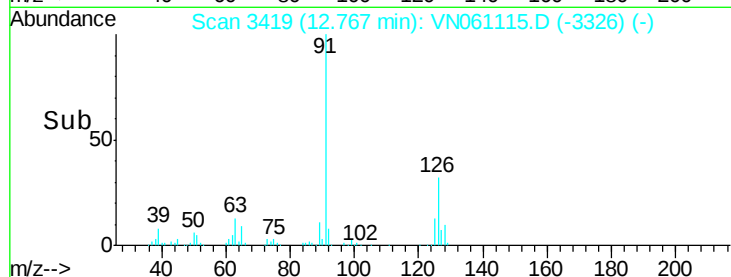
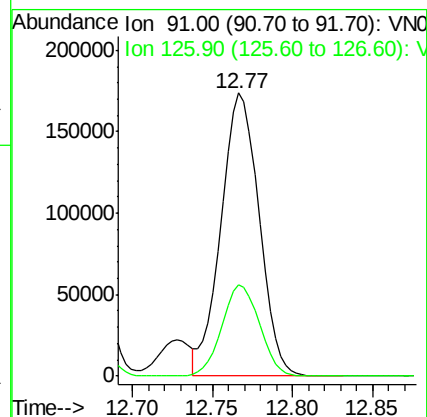
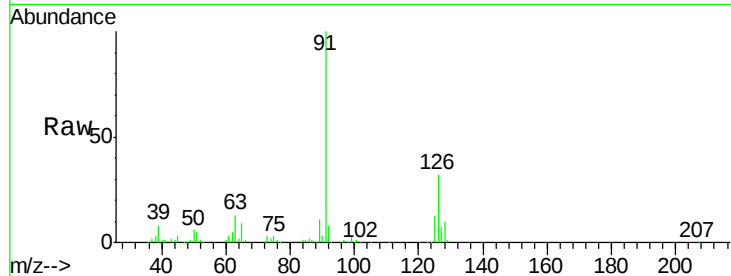
126 31.6 15.9 47.6

Manual Integrations

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#83

tert-Butylbenzene

Concen: 47.028 ug/l

RT: 12.99 min Scan# 3488

Delta R.T. 0.00 min

Lab File: VN061115.D

Acq: 20 Apr 2020 20:23

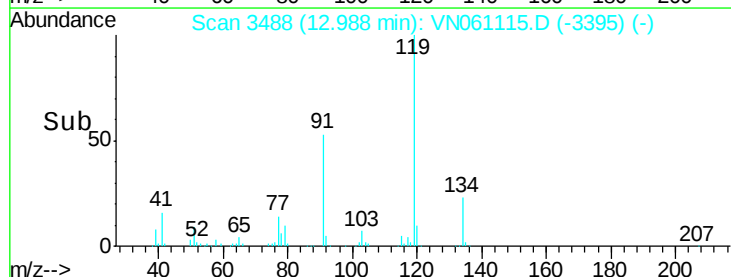
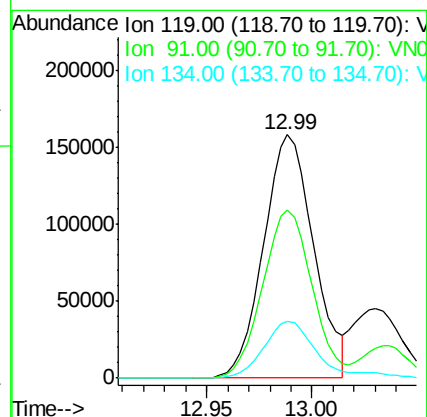
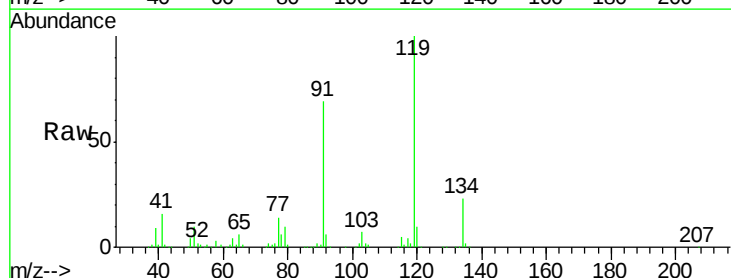
Tgt Ion: 119 Resp: 261817

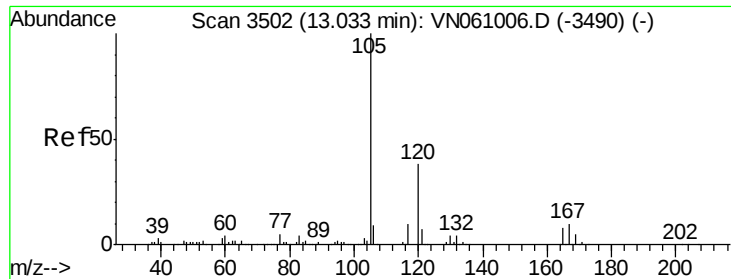
Ion Ratio Lower Upper

119 100

91 68.2 34.1 102.3

134 25.0 12.4 37.2





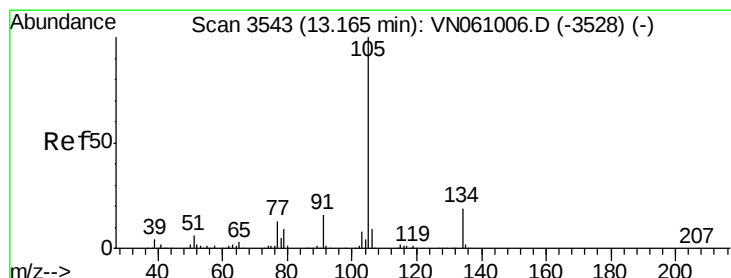
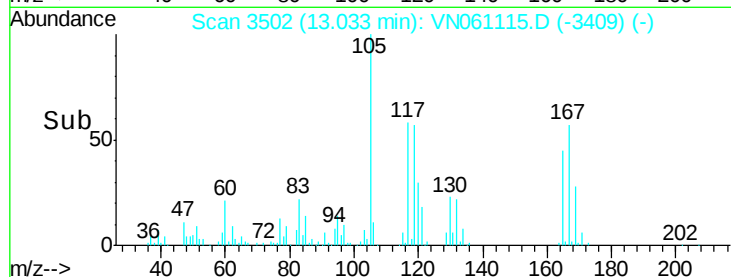
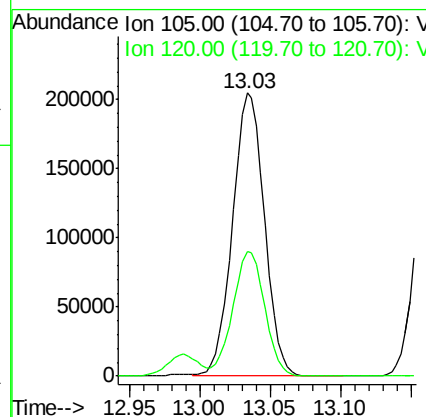
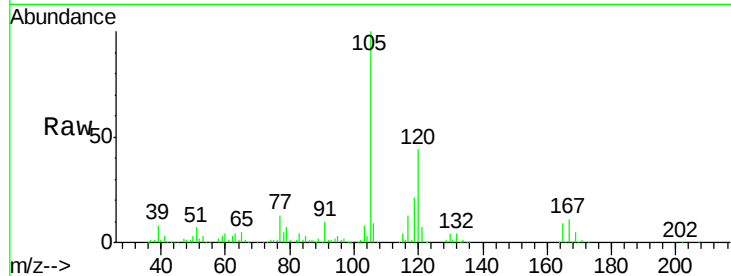
#84
 1,2,4-Trimethylbenzene
 Concen: 49.427 ug/l
 RT: 13.03 min Scan# 3502
 Delta R.T. 0.00 min
 Lab File: VN061115.D
 Acq: 20 Apr 2020 20:23

Instrument :
 MSVOA_N
 ClientSampleId :
 PA-TWP-2MSD

Tot Ion	Ratio	Lower	Upper
105	100		
120	44.0	22.1	66.5

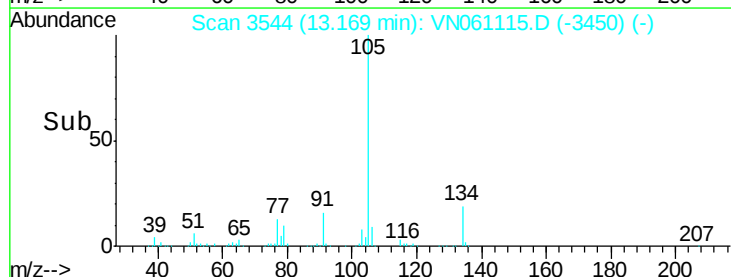
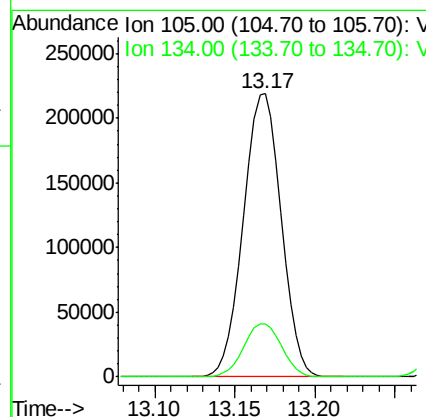
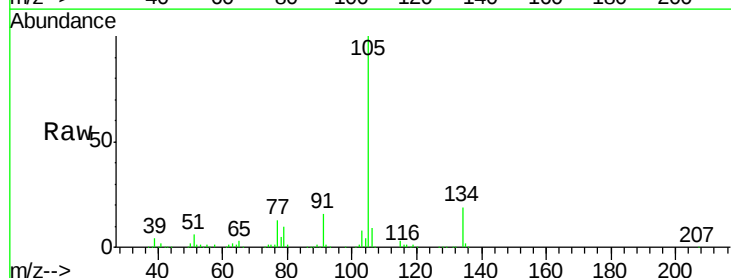
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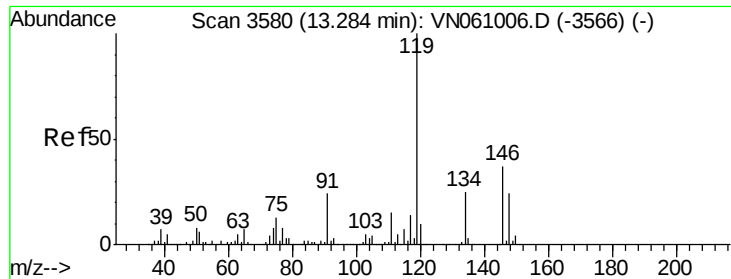
MMDadoda
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#85
 sec-Butylbenzene
 Concen: 46.749 ug/l
 RT: 13.17 min Scan# 3544
 Delta R.T. 0.00 min
 Lab File: VN061115.D
 Acq: 20 Apr 2020 20:23

Tgt Ion	Ratio	Lower	Upper
105	100		
134	18.9	9.5	28.5





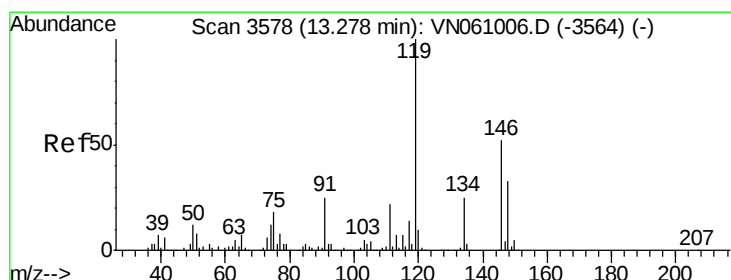
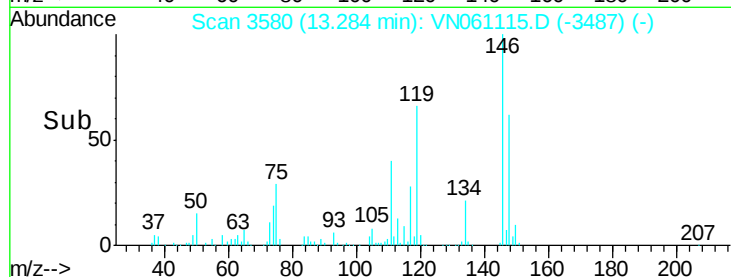
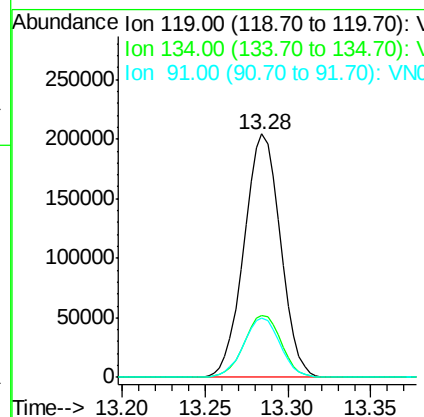
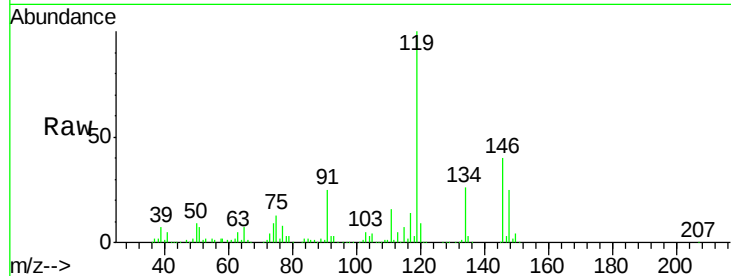
#86
 p-Isopropyltoluene
 Concen: 46.483 ug/l
 RT: 13.28 min Scan# 3580
 Delta R.T. 0.00 min
 Lab File: VN061115.D
 Acq: 20 Apr 2020 20:23

Instrument :
 MSVOA_N
 ClientSampleId :
 PA-TWP-2MSD

Tot Ion	Ratio	Resp	Lower	Upper
119	100	312230		
134	26.1	12.8	38.4	
91	24.5	12.3	36.8	

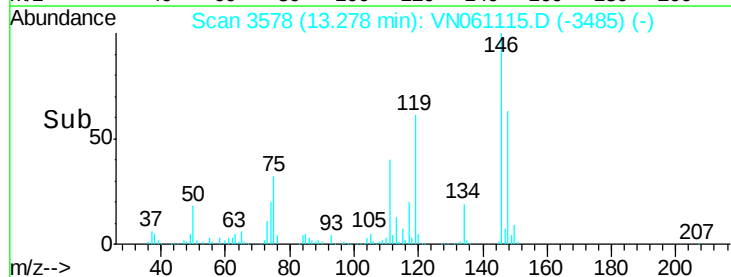
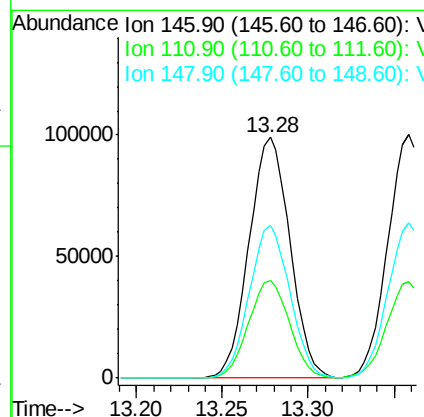
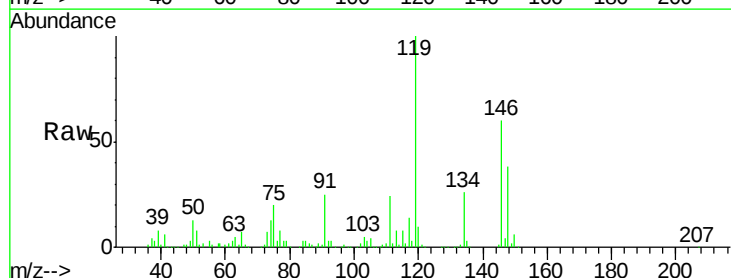
Manual Integrations
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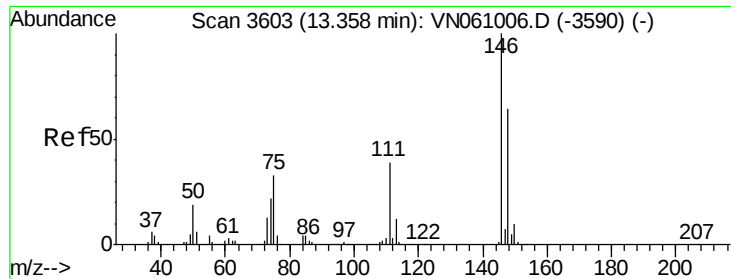
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#87
 1,3-Dichlorobenzene
 Concen: 49.209 ug/l
 RT: 13.28 min Scan# 3578
 Delta R.T. 0.00 min
 Lab File: VN061115.D
 Acq: 20 Apr 2020 20:23

Tgt Ion	Ratio	Resp	Lower	Upper
146	100	163988		
111	40.5	20.6	61.8	
148	62.8	31.8	95.3	





#88

1,4-Dichlorobenzene

Concen: 48.324 ug/l

RT: 13.36 min Scan# 3603

Delta R.T. 0.00 min

Lab File: VN061115.D

Acq: 20 Apr 2020 20:23

Instrument :

MSVOA_N

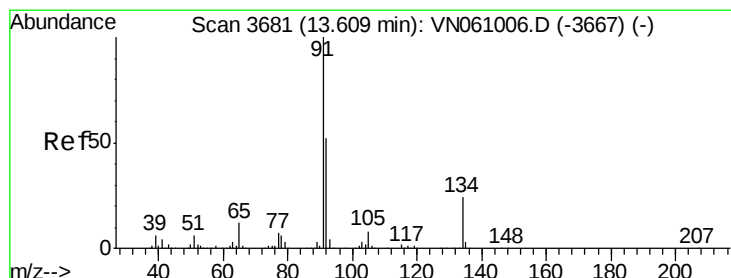
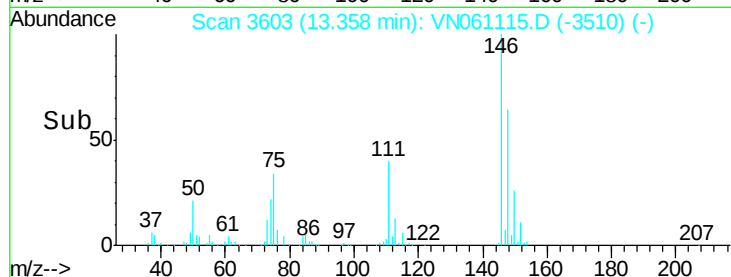
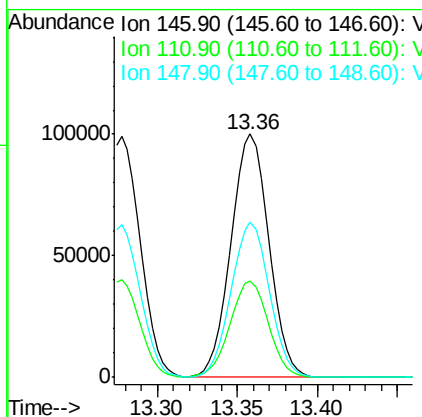
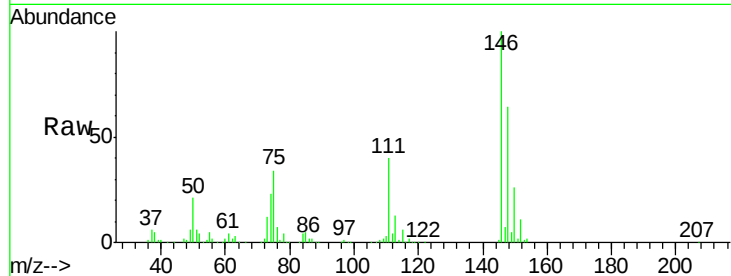
ClientSampleId :

PA-TWP-2MSD

Tot Ion:	146	Resp:	162008
Ion Ratio	Lower	Upper	
146	100		
111	40.1	20.1	60.3
148	64.2	32.1	96.3

Manual Integrations
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#89

n-Butylbenzene

Concen: 45.149 ug/l

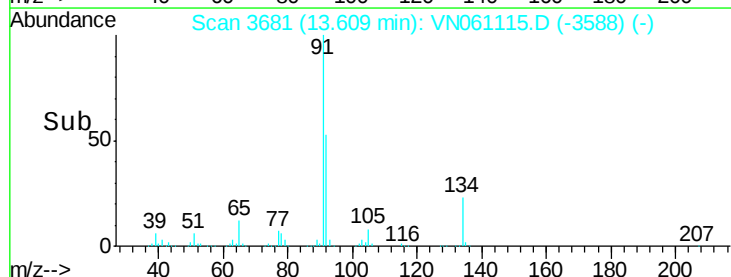
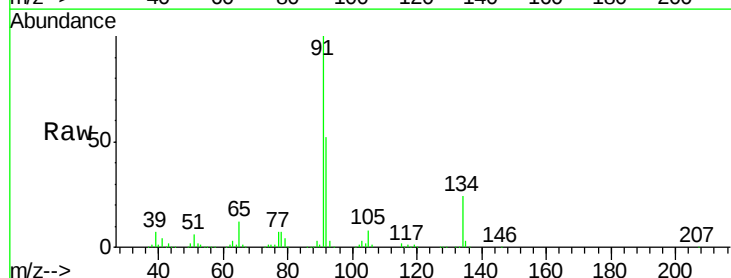
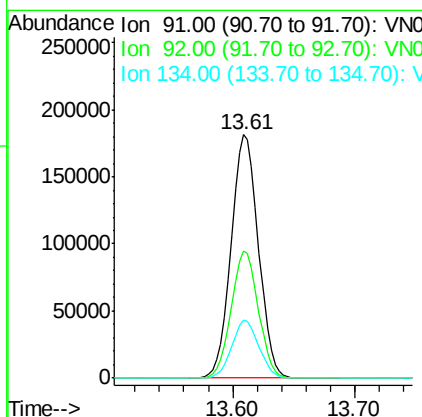
RT: 13.61 min Scan# 3681

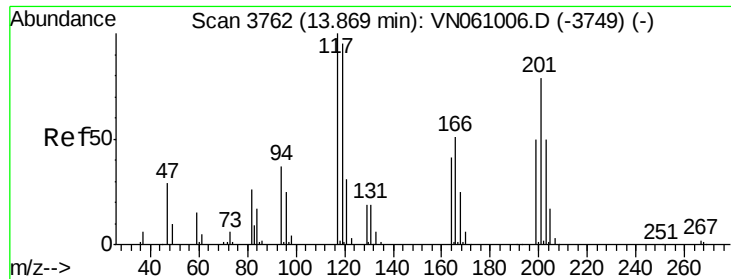
Delta R.T. 0.00 min

Lab File: VN061115.D

Acq: 20 Apr 2020 20:23

Tgt Ion:	91	Resp:	282016
Ion Ratio	Lower	Upper	
91	100		
92	52.0	26.1	78.2
134	23.7	12.3	36.8





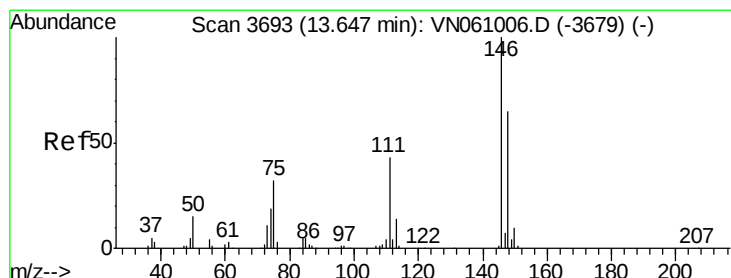
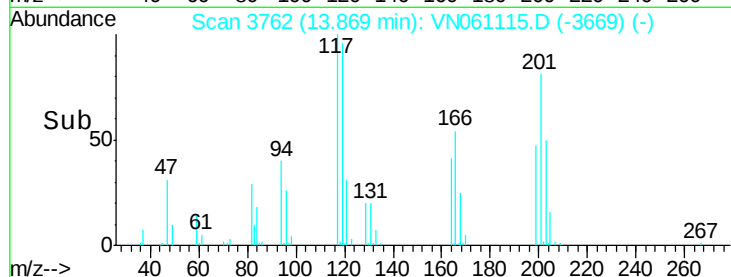
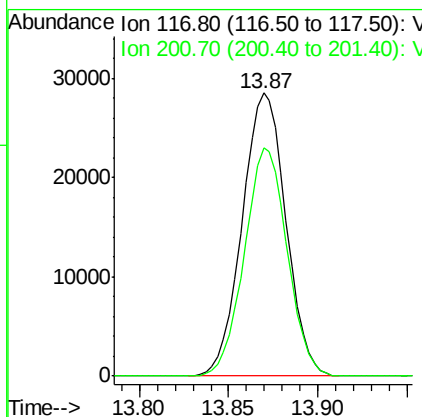
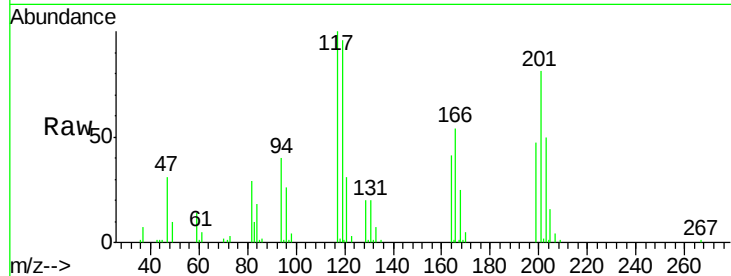
#90
Hexachloroethane
Concen: 47.320 ug/l
RT: 13.87 min Scan# 3762
Delta R.T. 0.00 min
Lab File: VN061115.D
Acq: 20 Apr 2020 20:23

Instrument :
MSVOA_N
ClientSampleId :
PA-TWP-2MSD

Tot Ion:117 Resp: 48766
Ion Ratio Lower Upper
117 100
201 78.9 39.3 117.9

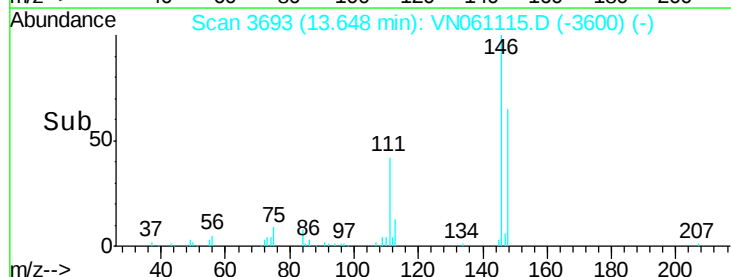
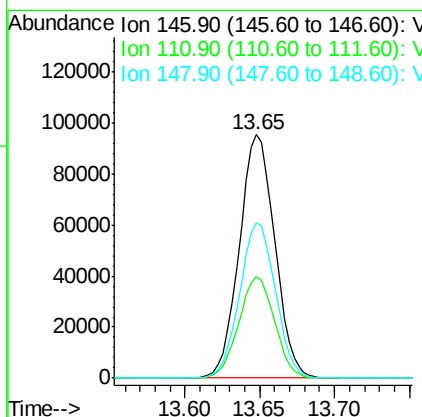
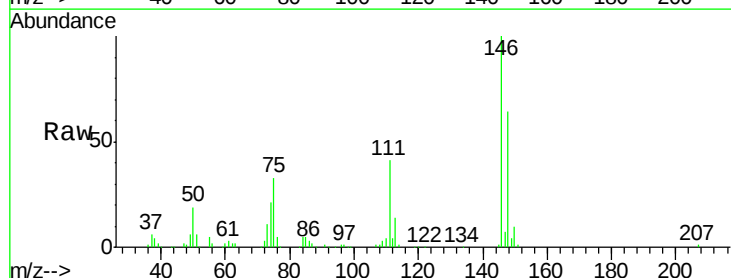
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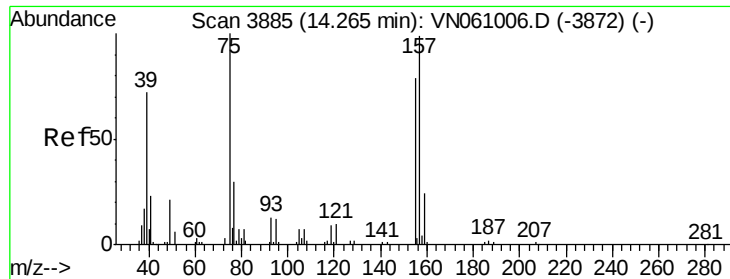
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#91
1,2-Dichlorobenzene
Concen: 49.551 ug/l
RT: 13.65 min Scan# 3693
Delta R.T. 0.00 min
Lab File: VN061115.D
Acq: 20 Apr 2020 20:23

Tgt Ion:146 Resp: 157602
Ion Ratio Lower Upper
146 100
111 42.1 21.3 64.0
148 64.4 32.0 96.0





#92

1,2-Dibromo-3-Chloropropane

Concen: 52.257 ug/l

RT: 14.26 min Scan# 3885

Delta R.T. 0.00 min

Lab File: VN061115.D

Acq: 20 Apr 2020 20:23

Instrument :

MSVOA_N

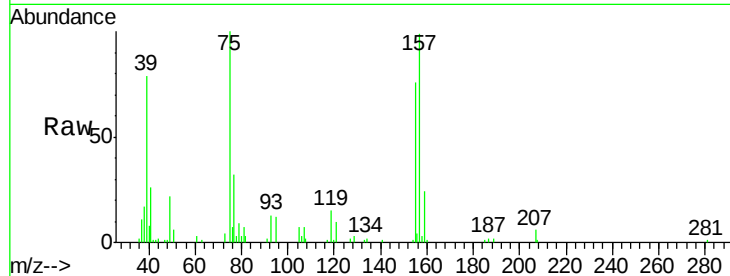
ClientSampleId :

PA-TWP-2MSD

Tot Ion:	75	Resp:	24725
Ion	Ratio	Lower	Upper
75	100		
155	75.7	39.5	118.5
157	98.4	50.1	150.4

Manual Integrations
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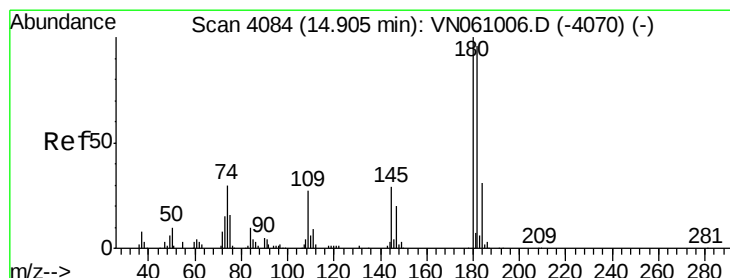
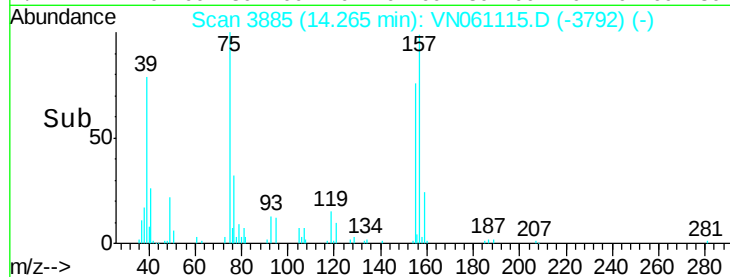
Abundance Ion 74.90 (74.60 to 75.60): VN061115.D (-3792) (-)

Ion 154.80 (154.50 to 155.50): VN061115.D (-3792) (-)

Ion 156.80 (156.50 to 157.50): VN061115.D (-3792) (-)

14.26

Time-->



#93

1,2,4-Trichlorobenzene

Concen: 47.272 ug/l

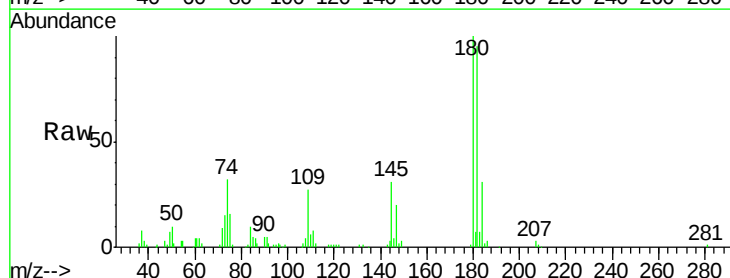
RT: 14.90 min Scan# 4084

Delta R.T. 0.00 min

Lab File: VN061115.D

Acq: 20 Apr 2020 20:23

Tgt Ion:	180	Resp:	88991
Ion	Ratio	Lower	Upper
180	100		
182	95.4	47.8	143.3
145	30.7	15.3	45.8



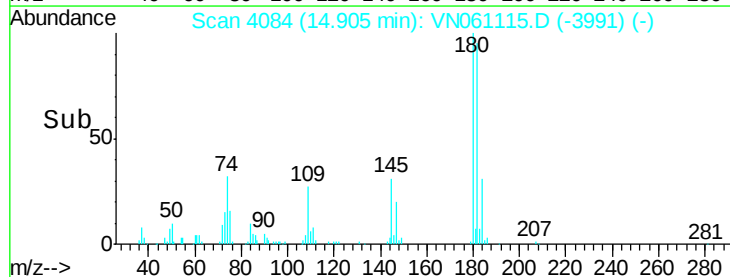
Abundance Ion 179.80 (179.50 to 180.50): VN061115.D (-3991) (-)

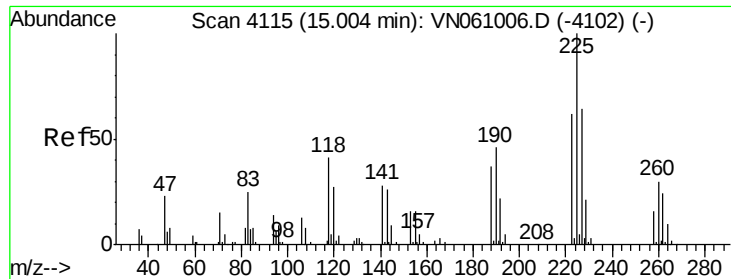
Ion 181.80 (181.50 to 182.50): VN061115.D (-3991) (-)

Ion 144.80 (144.50 to 145.50): VN061115.D (-3991) (-)

14.90

Time-->





#94

Hexachlorobutadiene

Concen: 40.454 ug/l

RT: 15.00 min Scan# 4115

Delta R.T. 0.00 min

Lab File: VN061115.D

Acq: 20 Apr 2020 20:23

Instrument :

MSVOA_N

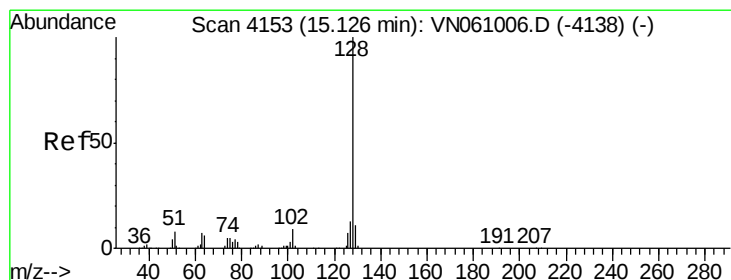
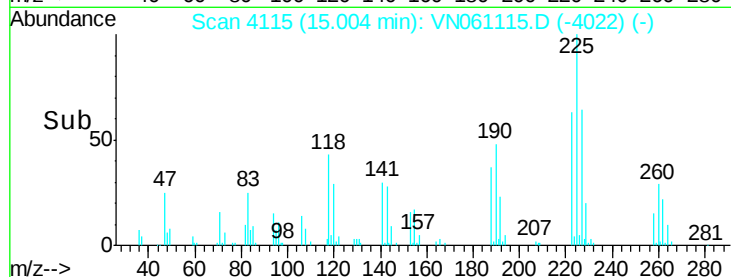
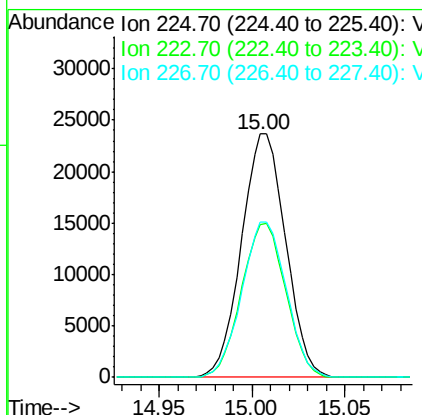
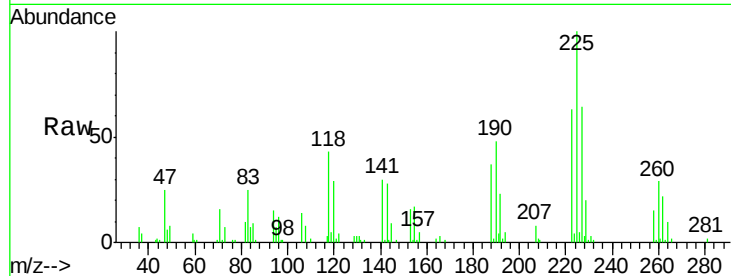
ClientSampleId :

PA-TWP-2MSD

Tot Ion:	225	Resp:	39177
Ion Ratio	Lower	Upper	
225	100		
223	63.2	31.3	93.8
227	64.2	31.9	95.5

Manual Integrations
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4/21/2020 12:00:16 PM



#95

Naphthalene

Concen: 51.005 ug/l

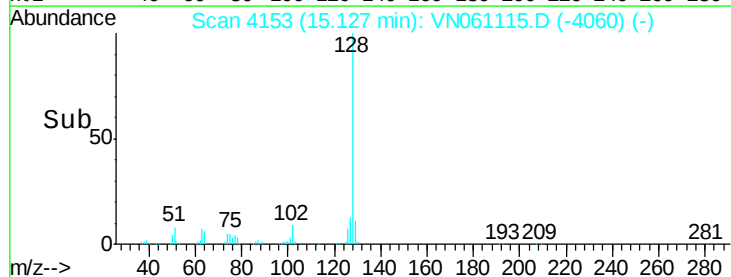
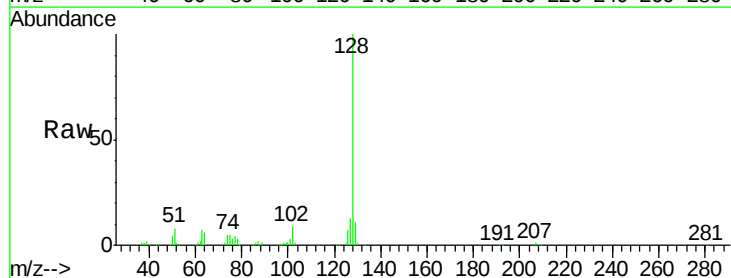
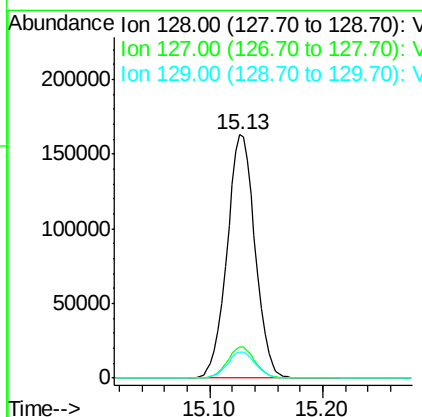
RT: 15.13 min Scan# 4153

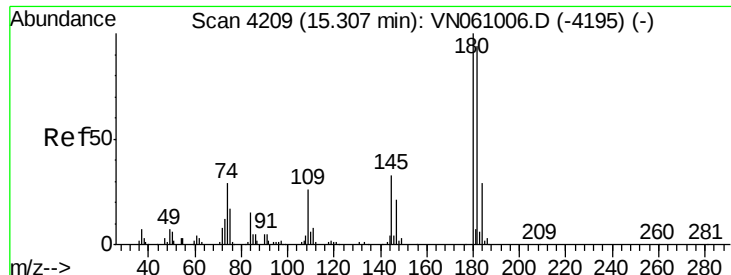
Delta R.T. 0.00 min

Lab File: VN061115.D

Acq: 20 Apr 2020 20:23

Tgt Ion:	128	Resp:	280028
Ion Ratio	Lower	Upper	
128	100		
127	12.7	10.2	15.4
129	10.8	8.6	13.0





#96
 1,2,3-Trichlorobenzene
 Concen: 47.634 ug/l
 RT: 15.31 min Scan# 4210
 Delta R.T. 0.00 min
 Lab File: VN061115.D
 Acq: 20 Apr 2020 20:23

Instrument :
 MSVOA_N
 ClientSampleId :
 PA-TWP-2MSD

Tot Ion	Ratio	Lower	Upper
180	100		
182	95.1	47.6	142.8
145	33.0	16.4	49.2

Manual Integrations
 APPROVED

MMDadoda
 4/21/2020 12:00:16 PM

