

Data Path : Z:\VOASRV\HPCHEM1\MSVOA N\DATA\VN042020\
 Data File : VN061114.D
 Acq On : 20 Apr 2020 20:01
 Operator : JC/MD
 Sample : L2330-13MS
 Misc : 5.00mL/MSVOA N/WATER
 ALS Vial : 25 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 PA-TWP-2MS

Manual Integrations
 APPROVED

MMDadoda
 4/21/2020 12:00:08 PM

Quant Time: Apr 21 06:36:36 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	146765	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	8.56	114	252159	50.00	ug/l	0.00
63) Chlorobenzene-d5	11.40	117	229279	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.34	152	103950	50.00	ug/l	0.00

System Monitoring Compounds	R.T.	QIon	Response	Conc	Units	Dev(Min)
33) 1,2-Dichloroethane-d4	8.00	65	91121	48.53	ug/l	0.00
Spiked Amount	50.000		Recovery	=	97.06%	
35) Dibromofluoromethane	7.56	113	71502	48.56	ug/l	0.00
Spiked Amount	50.000		Recovery	=	97.12%	
50) Toluene-d8	10.08	98	256806	46.15	ug/l	0.00
Spiked Amount	50.000		Recovery	=	92.30%	
62) 4-Bromofluorobenzene	12.40	95	99611	45.67	ug/l	0.00
Spiked Amount	50.000		Recovery	=	91.34%	

Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
2) Dichlorodifluoromethane	1.83	85	90810	46.836	ug/l	100
3) Chloromethane	2.04	50	123849	47.579	ug/l	99
4) Vinyl Chloride	2.17	62	101353	46.854	ug/l	98
5) Bromomethane	2.55	94	51570	47.539	ug/l	96
6) Chloroethane	2.69	64	61887	49.596	ug/l	98
7) Trichlorofluoromethane	3.00	101	134097	49.794	ug/l	99
8) Diethyl Ether	3.38	74	51972	48.556	ug/l	98
9) 1,1,2-Trichlorotrifluoroet	3.73	101	74429	47.106	ug/l	99
10) Methyl Iodide	3.93	142	66806	47.928	ug/l	99
11) Tert butyl alcohol	4.72	59	64231	192.791	ug/l	100
12) 1,1-Dichloroethene	3.72	96	76769	47.799	ug/l	99
13) Acrolein	3.57	56	61961	220.262	ug/l	97
14) Allyl chloride	4.29	41	133673	43.988	ug/l	95
15) Acrylonitrile	4.94	53	216746	239.940	ug/l	100
16) Acetone	3.78	43	177016	214.176	ug/l	99
17) Carbon Disulfide	4.03	76	235781	46.915	ug/l	99
18) Methyl Acetate	4.28	43	118436	45.698	ug/l	100
19) Methyl tert-butyl Ether	5.00	73	266857	47.652	ug/l	99
20) Methylene Chloride	4.52	84	87206	48.326	ug/l	99
21) trans-1,2-Dichloroethene	5.01	96	83207	48.438	ug/l	97
22) Diisopropyl ether	5.91	45	309436	49.029	ug/l	97
23) Vinyl Acetate	5.86	43	1123807	227.071	ug/l	100
24) 1,1-Dichloroethane	5.82	63	165701	48.611	ug/l	99
25) 2-Butanone	6.80	43	286662	226.342	ug/l	100
26) 2,2-Dichloropropane	6.79	77	123570	43.538	ug/l	100
27) cis-1,2-Dichloroethene	6.80	96	95049	48.195	ug/l	99
28) Bromochloromethane	7.17	49	77890	49.780	ug/l	98
29) Tetrahydrofuran	7.18	42	199300	231.795	ug/l	100
30) Chloroform	7.35	83	160148	50.370	ug/l	97
31) Cyclohexane	7.63	56	149221	42.661	ug/l	99
32) 1,1,1-Trichloroethane	7.54	97	136578	49.663	ug/l	99
36) 1,1-Dichloropropene	7.77	75	122174	46.953	ug/l	99
37) Ethyl Acetate	6.89	43	122030	43.190	ug/l	99
38) Carbon Tetrachloride	7.75	117	108667	50.172	ug/l	99

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Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
39) Methylcyclohexane	9.06	83	128128	41.187	ug/l	99
40) Benzene	8.02	78	367087	47.554	ug/l	99
41) Methacrylonitrile	7.15	41	59821m	50.761	ug/l	
42) 1,2-Dichloroethane	8.10	62	126715	48.187	ug/l	100
43) Isopropyl Acetate	8.14	43	208666	45.410	ug/l	99
44) Trichloroethene	8.82	130	91330	47.085	ug/l	96
45) 1,2-Dichloropropane	9.10	63	98435	47.210	ug/l	99
46) Dibromomethane	9.19	93	60135	50.023	ug/l	98
47) Bromodichloromethane	9.38	83	124237	48.920	ug/l	99
48) Methyl methacrylate	9.18	41	96608	47.573	ug/l	98
49) 1,4-Dioxane	9.18	88	20018	713.925	ug/l	96
51) 4-Methyl-2-Pentanone	9.97	43	625934	236.293	ug/l	99
52) Toluene	10.14	92	218638	47.212	ug/l	99
53) t-1,3-Dichloropropene	10.37	75	140053	47.477	ug/l	99
54) cis-1,3-Dichloropropene	9.82	75	148560	46.156	ug/l	99
55) 1,1,2-Trichloroethane	10.55	97	85466	48.768	ug/l	98
56) Ethyl methacrylate	10.42	69	133192	48.332	ug/l	99
57) 1,3-Dichloropropane	10.70	76	148476	47.498	ug/l	99
59) 2-Hexanone	10.74	43	448257	234.643	ug/l	100
60) Dibromochloromethane	10.89	129	90446	50.240	ug/l	99
61) 1,2-Dibromoethane	10.99	107	86968	48.700	ug/l	98
64) Tetrachloroethene	10.62	164	79991	45.593	ug/l	98
65) Chlorobenzene	11.43	112	221664	46.832	ug/l	99
66) 1,1,1,2-Tetrachloroethane	11.50	131	81582	48.177	ug/l	100
67) Ethyl Benzene	11.50	91	411887	46.262	ug/l	99
68) m/p-Xylenes	11.61	106	301422	93.678	ug/l	100
69) o-Xylene	11.94	106	144035	46.558	ug/l	99
70) Stvrene	11.96	104	239258	48.039	ug/l	100
71) Bromoform	12.12	173	62761	49.653	ug/l #	99
73) Isopropylbenzene	12.24	105	379904	45.618	ug/l	100
74) N-amyl acetate	12.06	43	176230	45.505	ug/l	99
75) 1,1,2,2-Tetrachloroethane	12.50	83	123148	48.442	ug/l	99
76) 1,2,3-Trichloropropane	12.55	75	107993m	47.231	ug/l	
77) Bromobenzene	12.52	156	92540	47.592	ug/l	98
78) n-propylbenzene	12.59	91	444248	45.594	ug/l	99
79) 2-Chlorotoluene	12.67	91	263514	46.113	ug/l	99
80) 1,3,5-Trimethylbenzene	12.73	105	315966	45.901	ug/l	100
81) trans-1,4-Dichloro-2-buten	12.29	75	40869	44.088	ug/l	99
82) 4-Chlorotoluene	12.77	91	268641	45.327	ug/l	99
83) tert-Butylbenzene	12.99	119	258195	44.601	ug/l	100
84) 1,2,4-Trimethylbenzene	13.03	105	316946	46.580	ug/l	100
85) sec-Butylbenzene	13.17	105	345886	44.097	ug/l	100
86) p-Isopropyltoluene	13.28	119	306676	43.907	ug/l	100
87) 1,3-Dichlorobenzene	13.28	146	157145	45.349	ug/l	99
88) 1,4-Dichlorobenzene	13.36	146	156308	44.837	ug/l	100
89) n-Butylbenzene	13.61	91	275606	42.432	ug/l	99
90) Hexachloroethane	13.87	117	46911	43.776	ug/l	98
91) 1,2-Dichlorobenzene	13.65	146	154316	46.659	ug/l	99
92) 1,2-Dibromo-3-Chloropropan	14.26	75	23722	48.216	ug/l	98
93) 1,2,4-Trichlorobenzene	14.90	180	84394	43.112	ug/l	99

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QLast Update : Fri Apr 17 03:49:39 2020
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Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
94) Hexachlorobutadiene	15.01	225	37080	36.821	ug/l	99
95) Naphthalene	15.13	128	264580	46.345	ug/l	100
96) 1,2,3-Trichlorobenzene	15.31	180	82350	43.653	ug/l	99

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

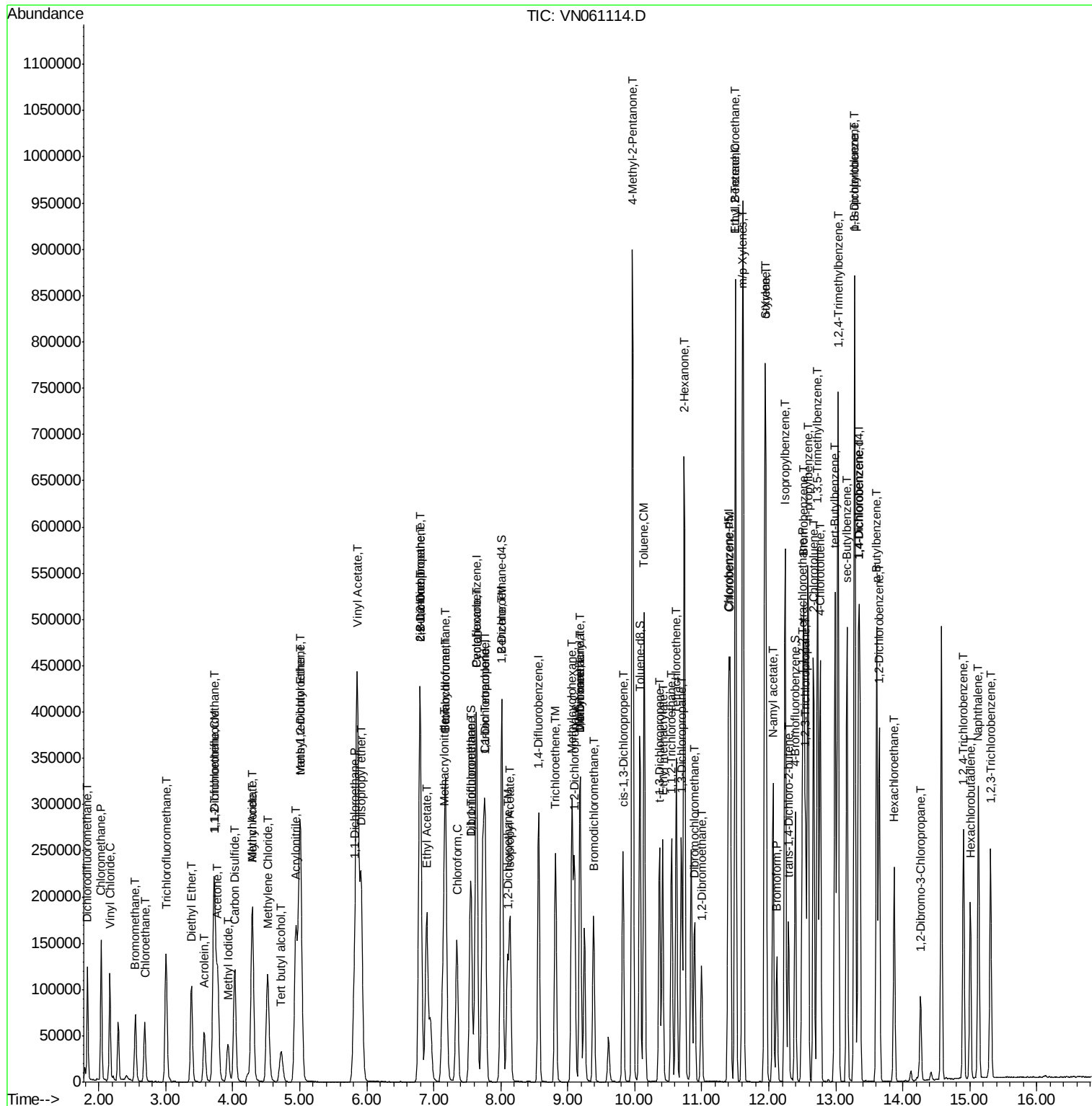
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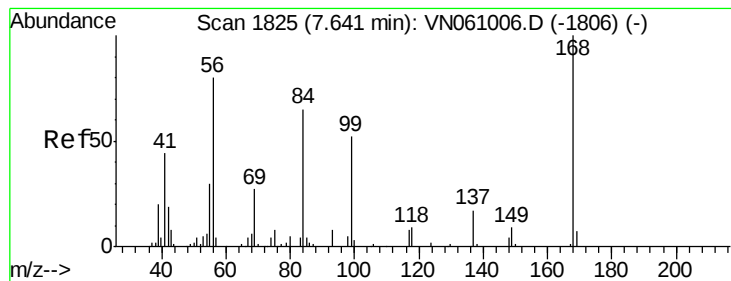
Instrument :
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#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 7.64 min Scan# 1825

Delta R.T. 0.00 min

Lab File: VN061114.D

Acq: 20 Apr 2020 20:01

Instrument :

MSVOA_N

ClientSampleId :

PA-TWP-2MS

Tot Ion:168 Resp: 146765

Ion Ratio Lower Upper

168 100

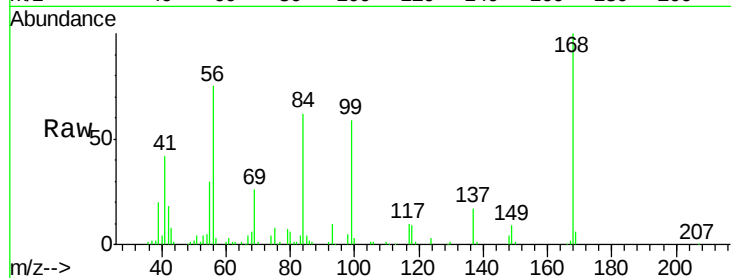
99 58.9 47.4 71.2

Manual Integrations

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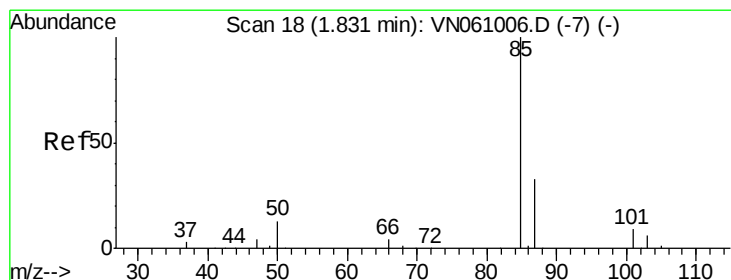
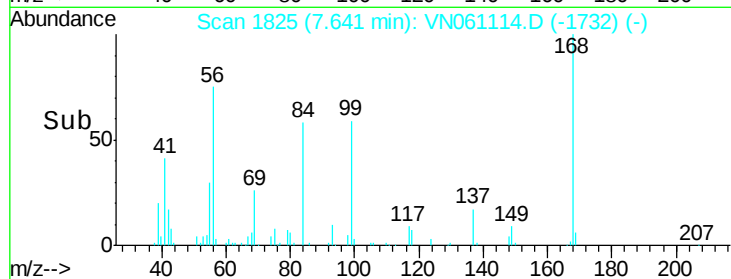
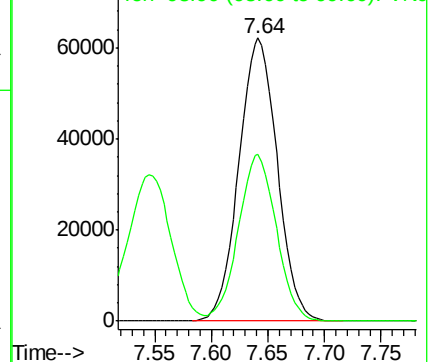
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Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VN



#2

Dichlorodifluoromethane

Concen: 46.836 ug/l

RT: 1.83 min Scan# 18

Delta R.T. 0.00 min

Lab File: VN061114.D

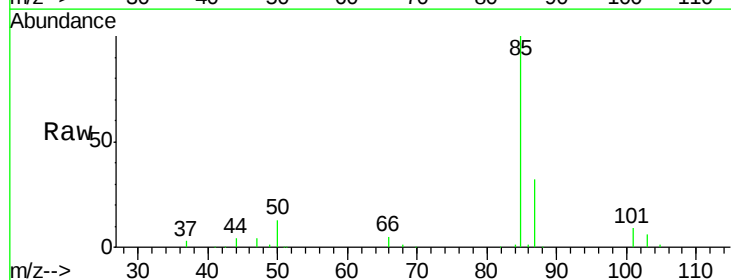
Acq: 20 Apr 2020 20:01

Tgt Ion: 85 Resp: 90810

Ion Ratio Lower Upper

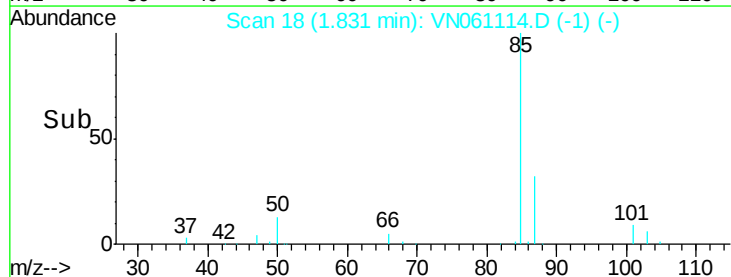
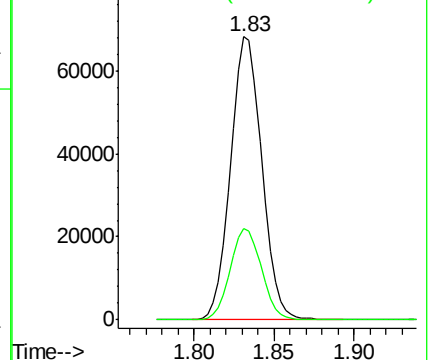
85 100

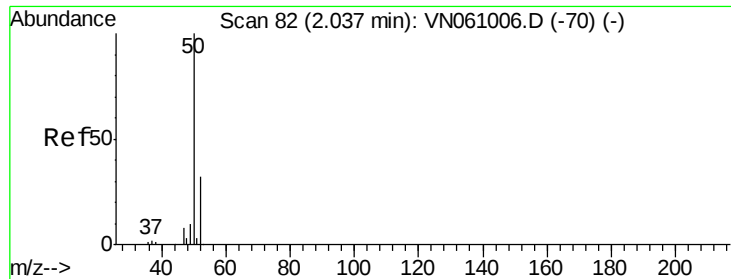
87 32.3 16.3 48.9



Abundance Ion 84.90 (84.60 to 85.60): VN

Ion 86.90 (86.60 to 87.60): VN





#3

Chloromethane

Concen: 47.579 ug/l

RT: 2.04 min Scan# 82

Delta R.T. 0.00 min

Lab File: VN061114.D

Acq: 20 Apr 2020 20:01

Instrument :

MSVOA_N

ClientSampleId :

PA-TWP-2MS

Tot Ion: 50 Resp: 123849

Ion Ratio Lower Upper

50 100

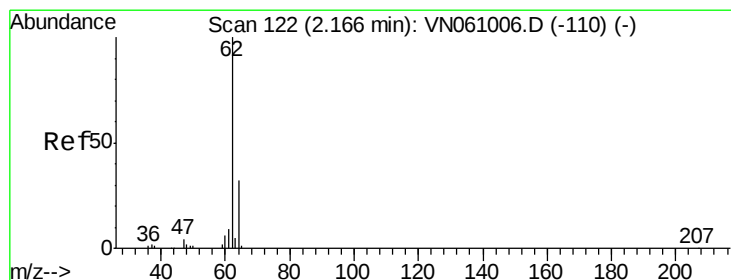
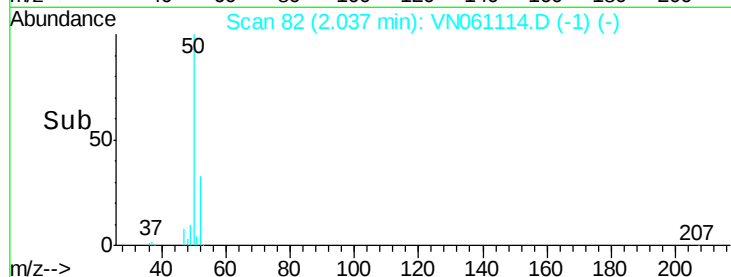
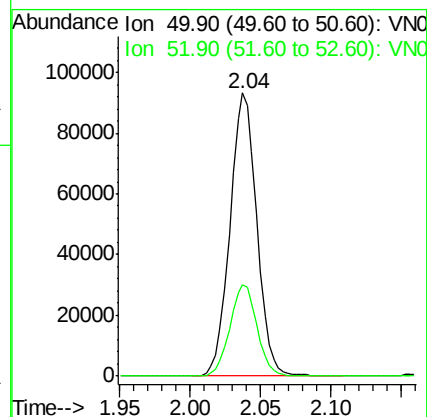
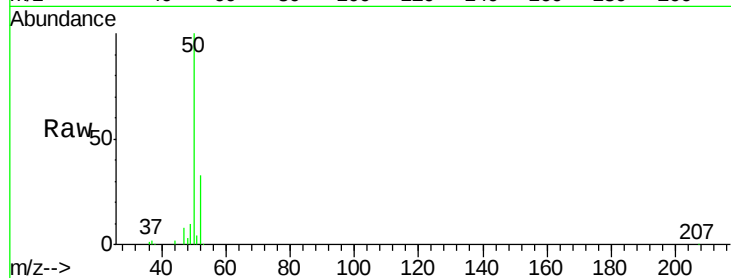
52 32.5 25.6 38.4

Manual Integrations

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#4

Vinyl Chloride

Concen: 46.854 ug/l

RT: 2.17 min Scan# 122

Delta R.T. 0.00 min

Lab File: VN061114.D

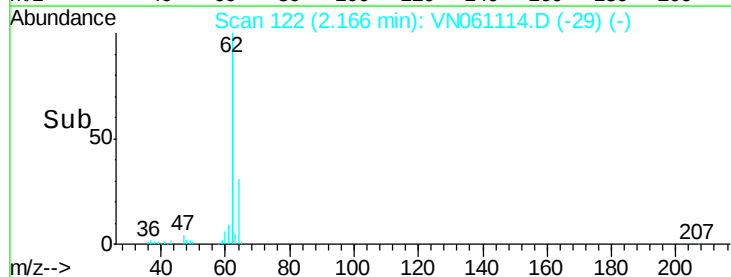
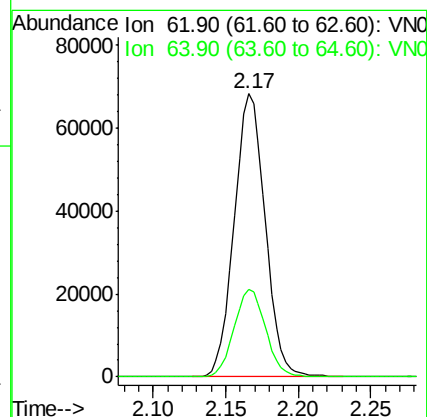
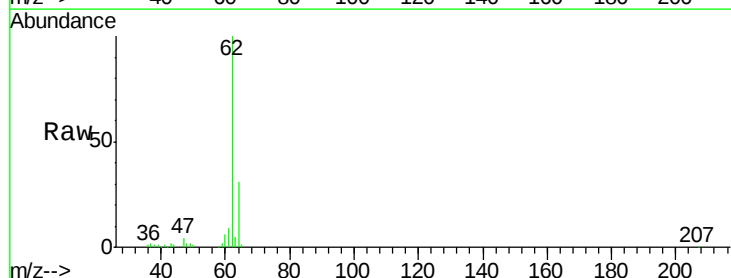
Acq: 20 Apr 2020 20:01

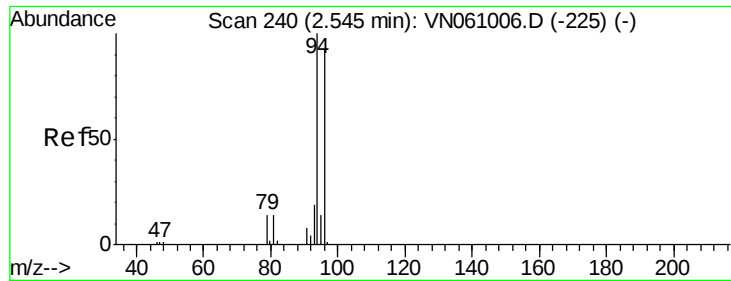
Tgt Ion: 62 Resp: 101353

Ion Ratio Lower Upper

62 100

64 30.7 25.4 38.0





#5

Bromomethane

Concen: 47.539 ug/l

RT: 2.55 min Scan# 241

Delta R.T. 0.00 min

Lab File: VN061114.D

Acq: 20 Apr 2020 20:01

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Tot Ion: 94 Resp: 51570

Ion Ratio Lower Upper

94 100

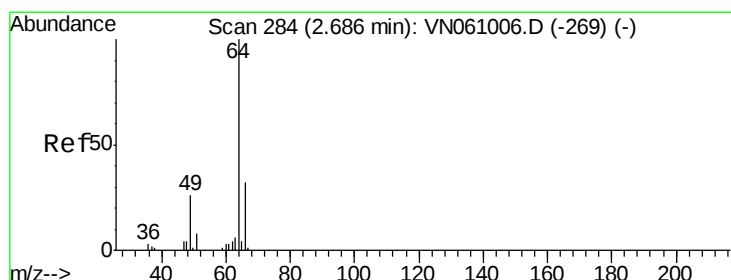
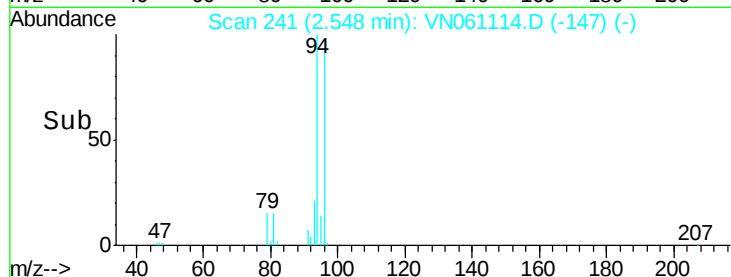
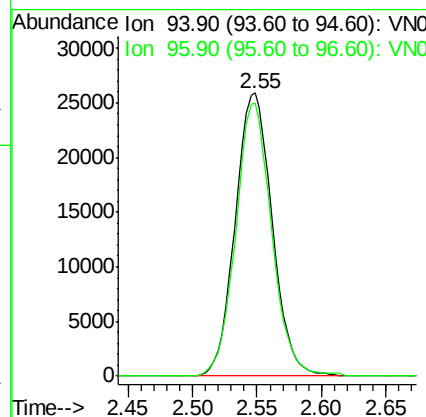
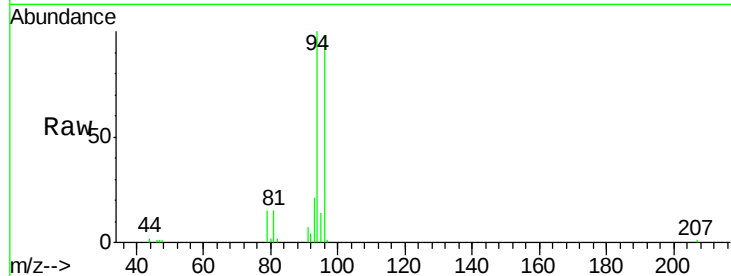
96 96.6 74.3 111.5

Manual Integrations

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#6

Chloroethane

Concen: 49.596 ug/l

RT: 2.69 min Scan# 284

Delta R.T. 0.00 min

Lab File: VN061114.D

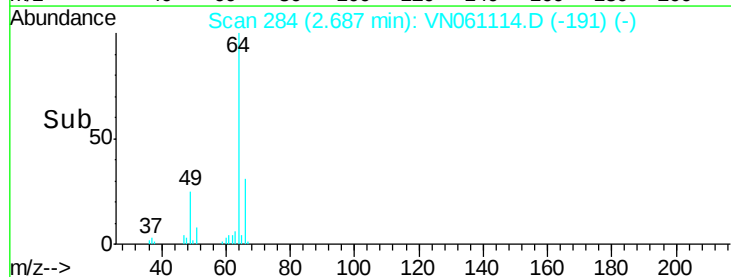
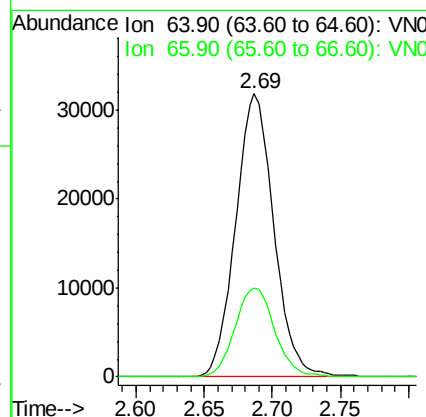
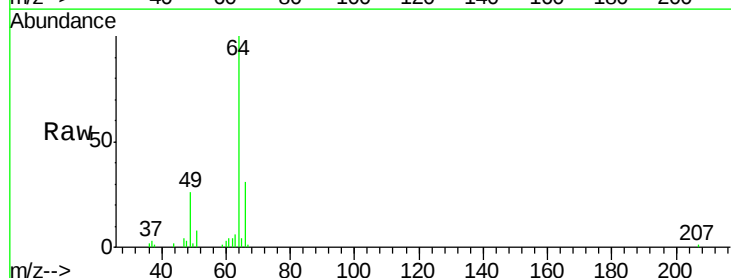
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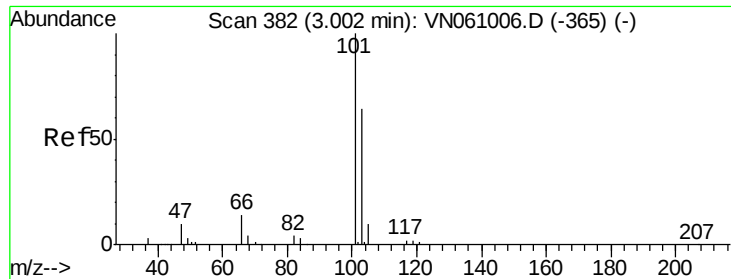
Tgt Ion: 64 Resp: 61887

Ion Ratio Lower Upper

64 100

66 31.4 25.8 38.8





#7

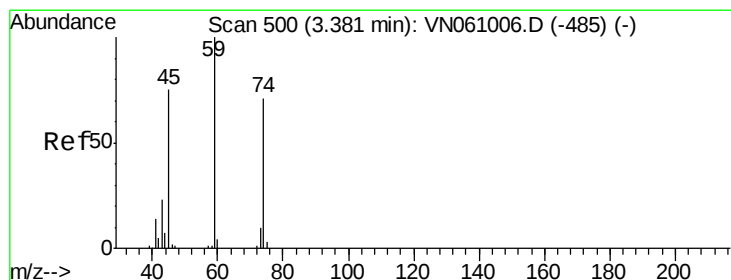
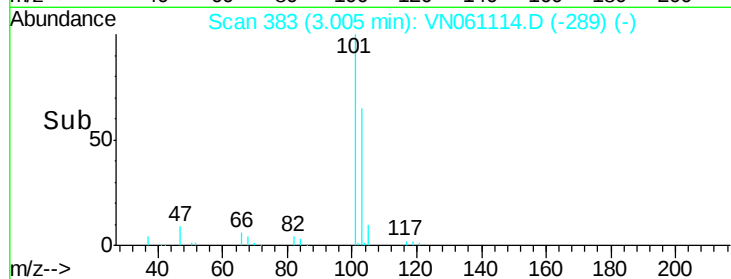
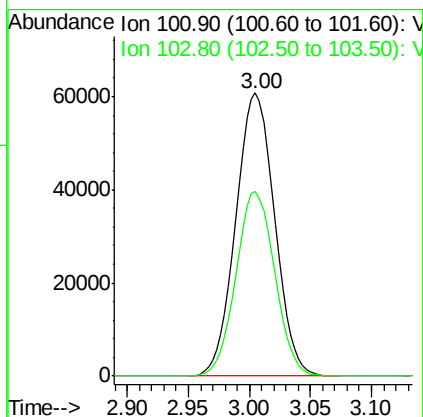
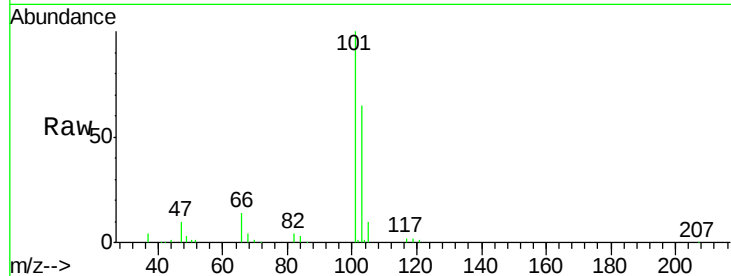
Trichlorofluoromethane
Concen: 49.794 ug/l
RT: 3.00 min Scan# 383
Delta R.T. 0.00 min
Lab File: VN061114.D
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Tot Ion	Ion	Ratio	Resp	Lower	Upper
101	100		134097		
103	65.3	51.4	77.2		

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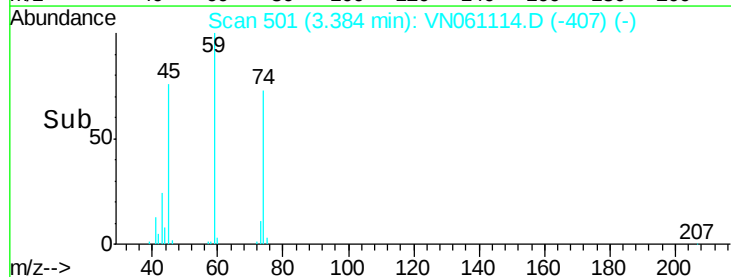
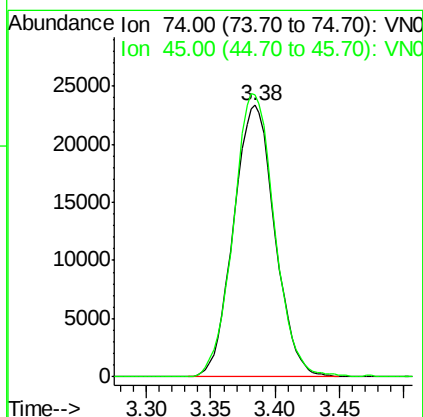
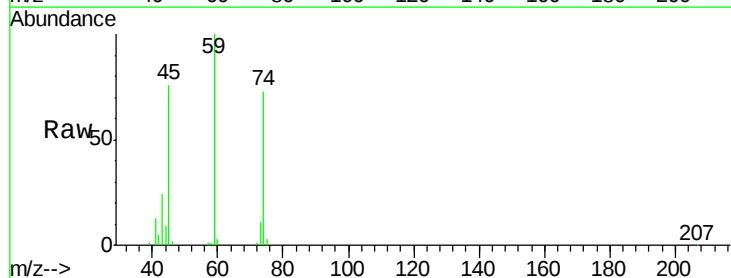
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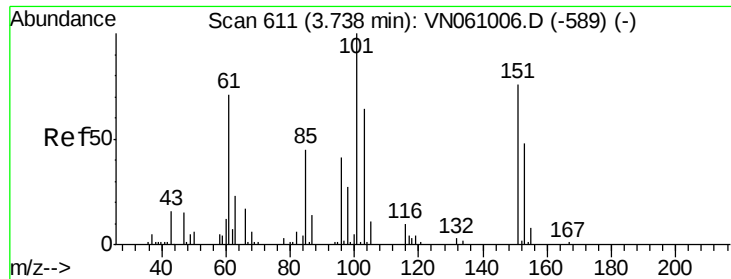


#8

Diethyl Ether
Concen: 48.556 ug/l
RT: 3.38 min Scan# 501
Delta R.T. 0.00 min
Lab File: VN061114.D
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Tgt Ion	Ion	Ratio	Resp	Lower	Upper
74	100		51972		
45	103.8	52.9	158.8		





#9

1,1,2-Trichlorotrifluoroethane

Concen: 47.106 ug/l

RT: 3.73 min Scan# 610

Delta R.T. -0.00 min

Lab File: VN061114.D

Acq: 20 Apr 2020 20:01

Instrument :

MSVOA_N

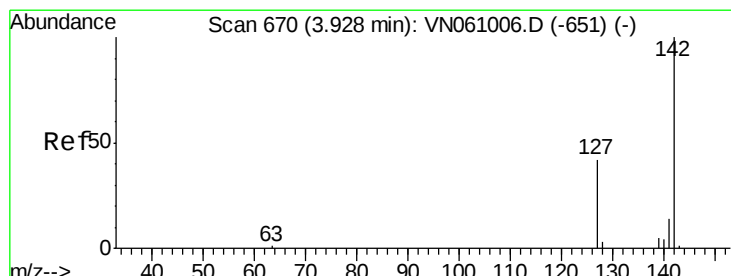
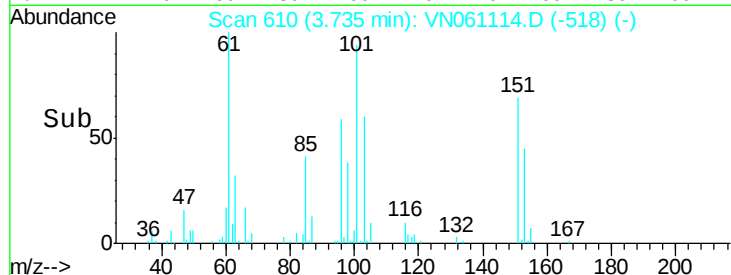
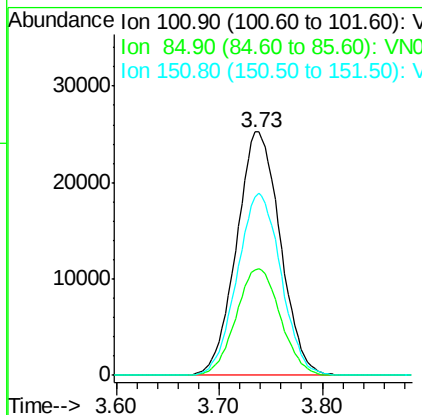
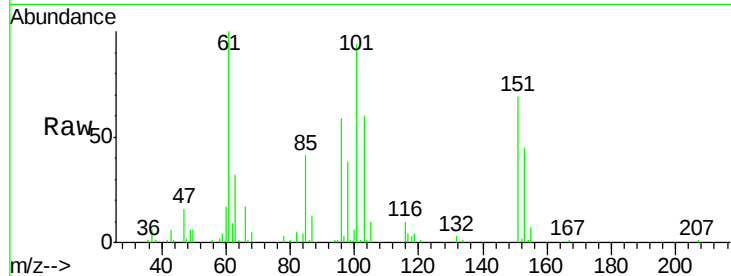
ClientSampleId :

PA-TWP-2MS

Tot Ion:	101	Resp:	74429
Ion Ratio	Lower	Upper	
101	100		
85	44.3	35.9	53.9
151	74.9	60.8	91.2

Manual Integrations
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MMDadoda
4/21/2020 12:00:08 PM



#10

Methyl Iodide

Concen: 47.928 ug/l

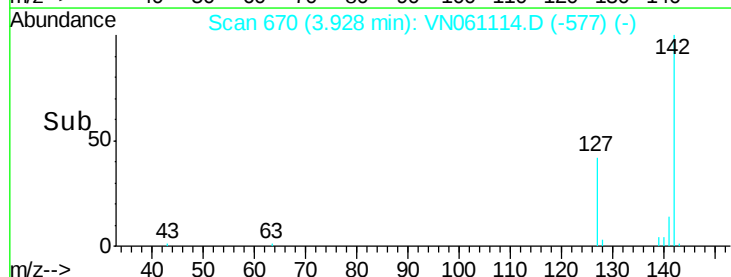
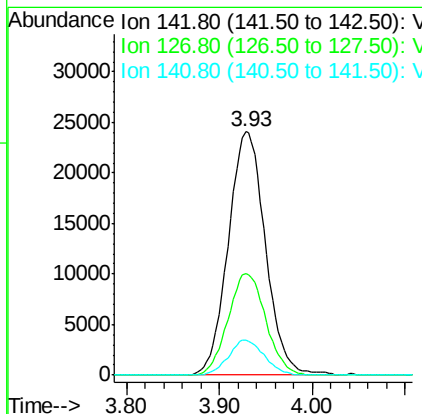
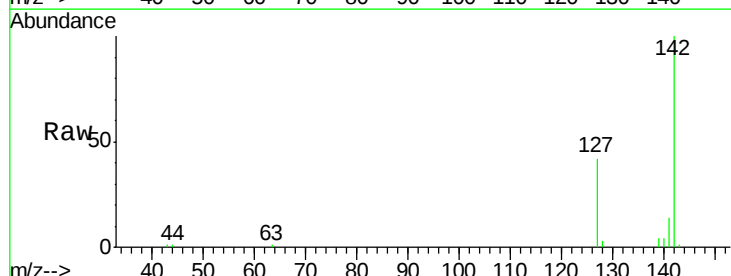
RT: 3.93 min Scan# 670

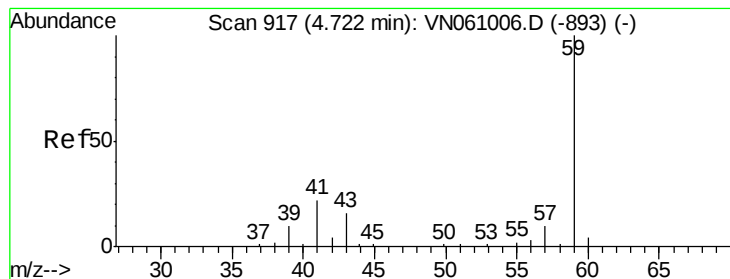
Delta R.T. 0.00 min

Lab File: VN061114.D

Acq: 20 Apr 2020 20:01

Tgt Ion:	142	Resp:	66806
Ion Ratio	Lower	Upper	
142	100		
127	42.3	33.4	50.2
141	13.7	11.0	16.6





#11

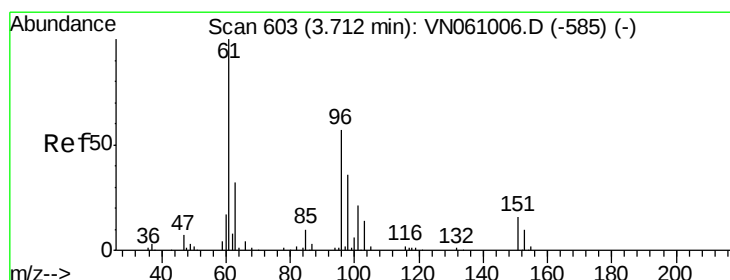
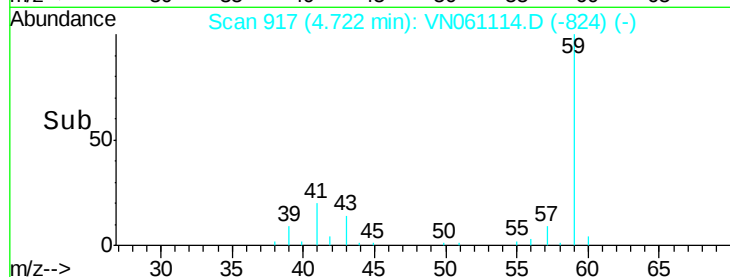
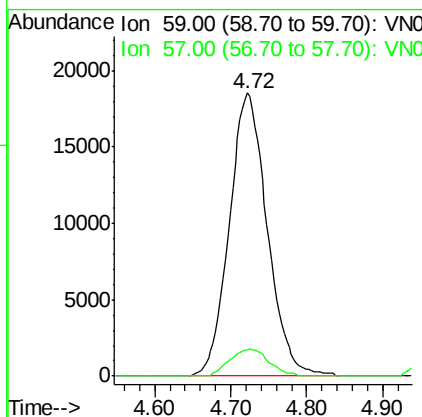
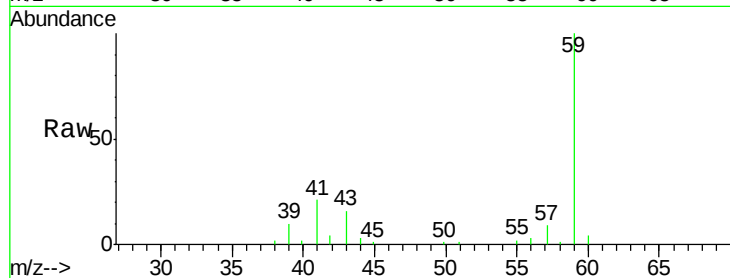
Tert butyl alcohol
 Concen: 192.791 ug/l
 RT: 4.72 min Scan# 917
 Delta R.T. 0.00 min
 Lab File: VN061114.D
 Acq: 20 Apr 2020 20:01

Instrument :
 MSVOA_N
 ClientSampled :
 PA-TWP-2MS

Tot Ion	Ratio	Lower	Upper
59	100		
57	9.9	8.1	12.1

Manual Integrations
 APPROVED

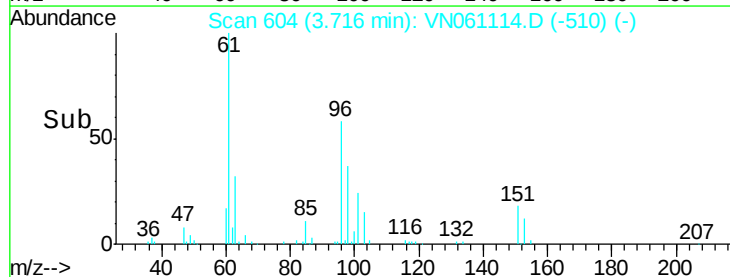
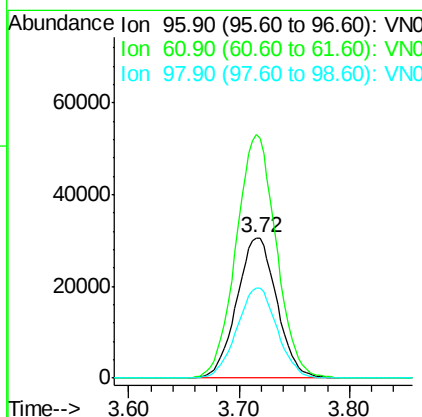
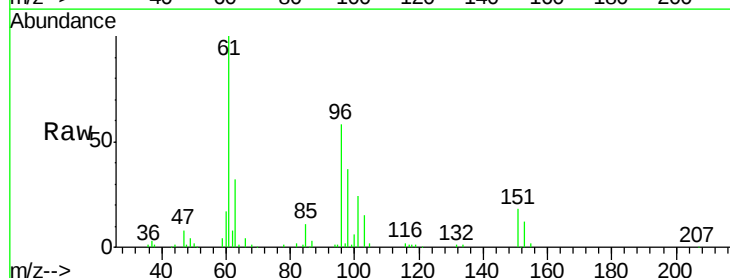
MMDadoda
 4/21/2020 12:00:08 PM

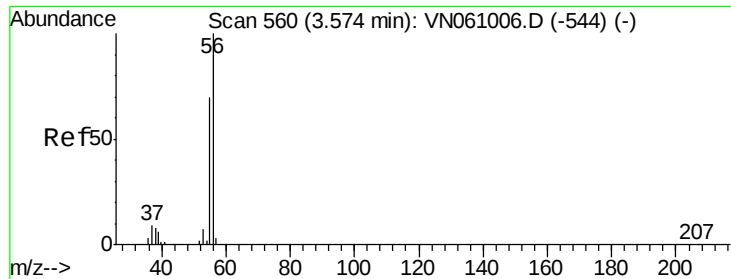


#12

1,1-Dichloroethene
 Concen: 47.799 ug/l
 RT: 3.72 min Scan# 604
 Delta R.T. 0.00 min
 Lab File: VN061114.D
 Acq: 20 Apr 2020 20:01

Tgt Ion	Ratio	Lower	Upper
96	100		
61	173.7	139.2	208.8
98	64.0	50.0	75.0





#13

Acrolein

Concen: 220.262 ug/l

RT: 3.57 min Scan# 560

Delta R.T. 0.00 min

Lab File: VN061114.D

Acq: 20 Apr 2020 20:01

Instrument :

MSVOA_N

ClientSampleId :

PA-TWP-2MS

Tot Ion: 56 Resp: 61961

Ion Ratio Lower Upper

56 100

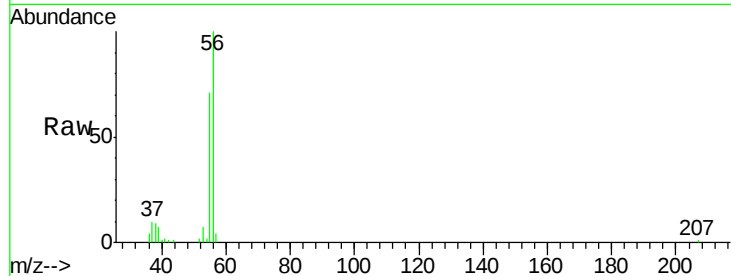
55 68.7 57.0 85.6

Manual Integrations

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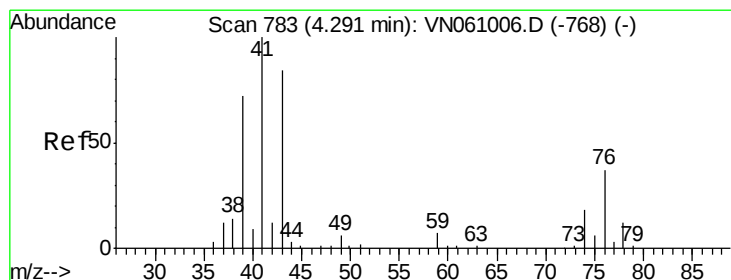
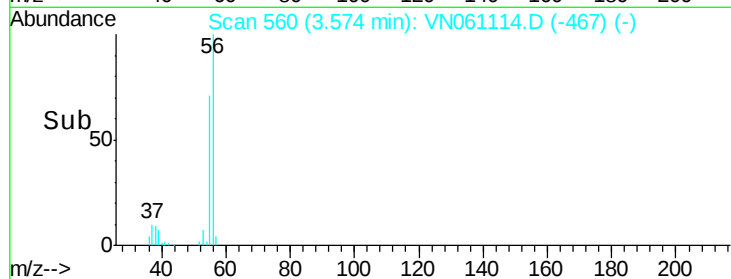
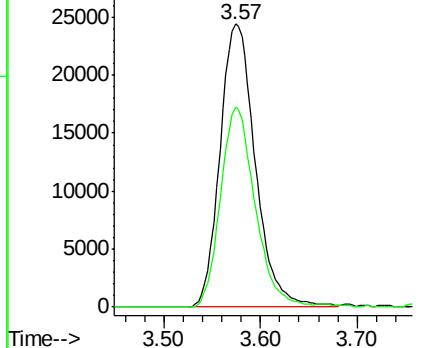
MMDadoda

4/21/2020 12:00:08 PM



Abundance Ion 56.00 (55.70 to 56.70): VN0

Ion 55.00 (54.70 to 55.70): VN0



#14

Allyl chloride

Concen: 43.988 ug/l

RT: 4.29 min Scan# 784

Delta R.T. 0.00 min

Lab File: VN061114.D

Acq: 20 Apr 2020 20:01

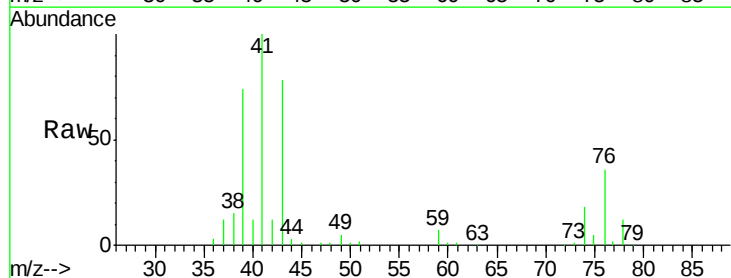
Tgt Ion: 41 Resp: 133673

Ion Ratio Lower Upper

41 100

39 75.1 56.3 84.5

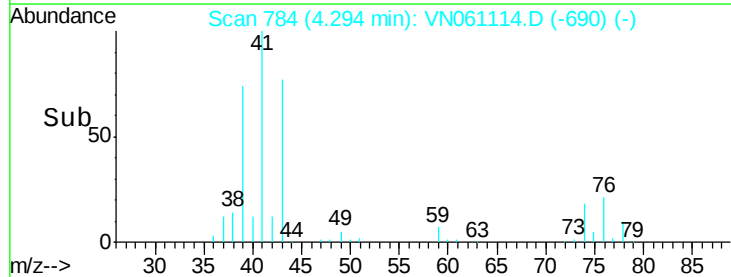
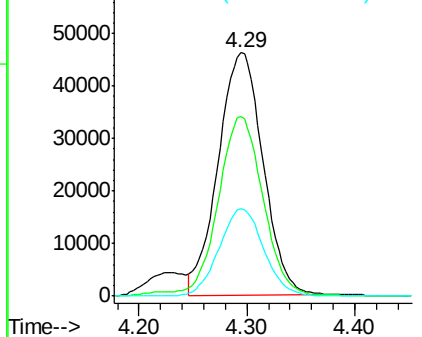
76 35.9 27.7 41.5

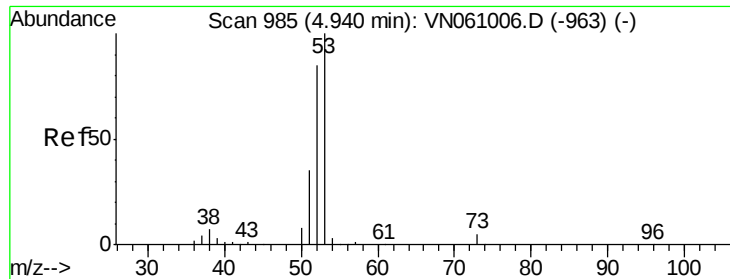


Abundance Ion 41.00 (40.70 to 41.70): VN0

Ion 39.00 (38.70 to 39.70): VN0

Ion 75.90 (75.60 to 76.60): VN0





#15

Acrylonitrile

Concen: 239.940 ug/l

RT: 4.94 min Scan# 985

Delta R.T. 0.00 min

Lab File: VN061114.D

Acq: 20 Apr 2020 20:01

Instrument :

MSVOA_N

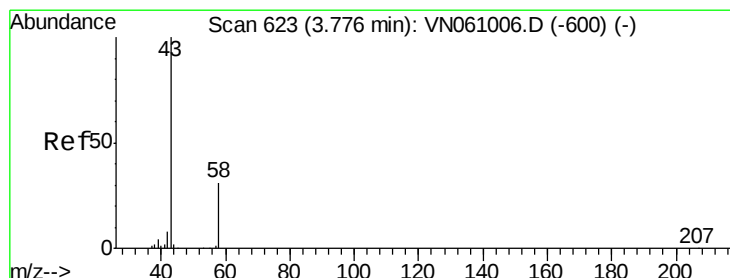
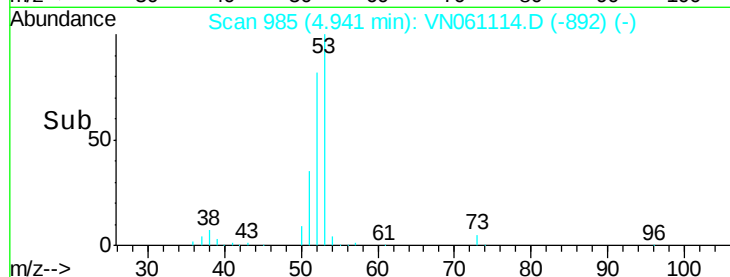
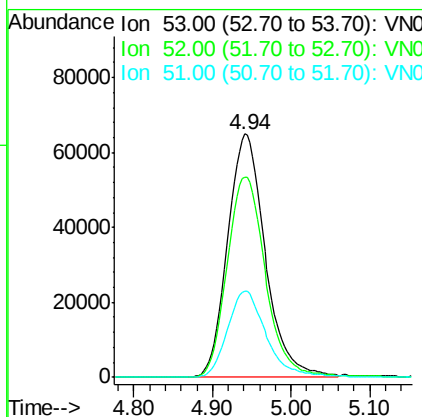
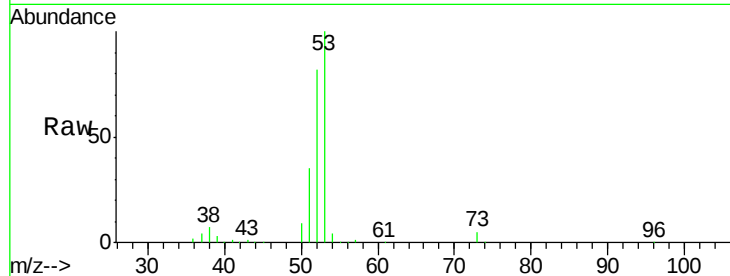
ClientSampleId :

PA-TWP-2MS

Tot Ion:	53	Resp:	216746
Ion	Ratio	Lower	Upper
53	100		
52	83.6	66.8	100.2
51	36.5	28.9	43.3

Manual Integrations
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MMDadoda
4/21/2020 12:00:08 PM



#16

Acetone

Concen: 214.176 ug/l

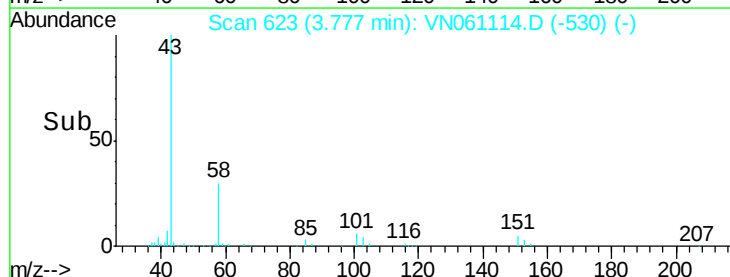
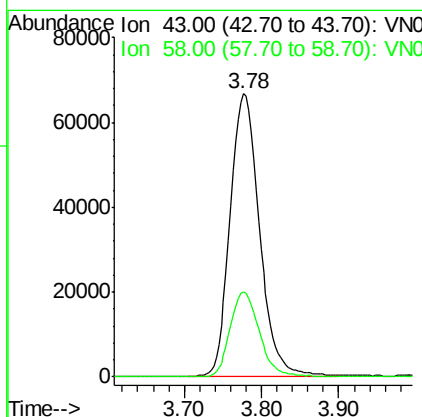
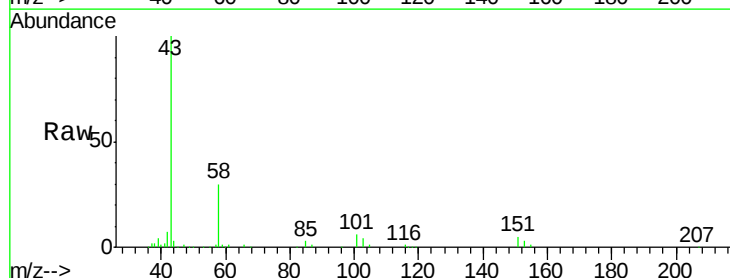
RT: 3.78 min Scan# 623

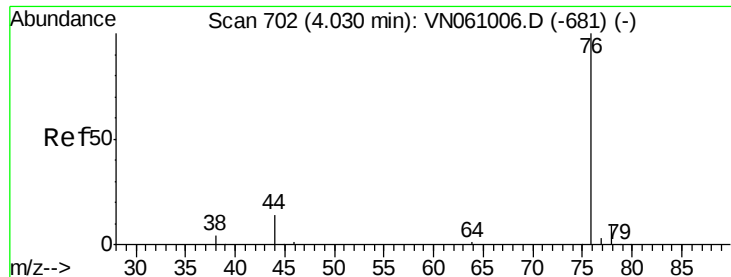
Delta R.T. 0.00 min

Lab File: VN061114.D

Acq: 20 Apr 2020 20:01

Tgt Ion:	43	Resp:	177016
Ion	Ratio	Lower	Upper
43	100		
58	30.2	24.6	37.0





#17

Carbon Disulfide

Concen: 46.915 ug/l

RT: 4.03 min Scan# 702

Delta R.T. 0.00 min

Lab File: VN061114.D

Acq: 20 Apr 2020 20:01

Tot Ion: 76 Resp: 235781

Ion Ratio Lower Upper

76 100

78 9.3 7.6 11.4

Instrument :

MSVOA_N

ClientSampleId :

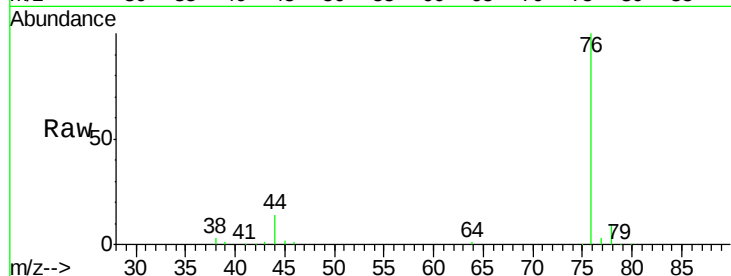
PA-TWP-2MS

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

80000

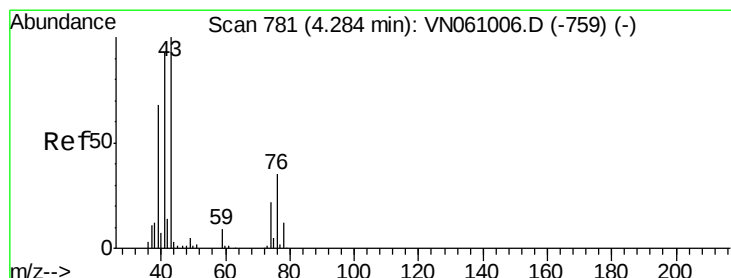
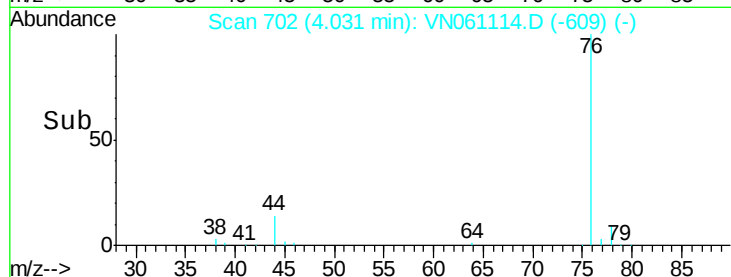
60000

40000

20000

0

Time-->



#18

Methyl Acetate

Concen: 45.698 ug/l

RT: 4.28 min Scan# 781

Delta R.T. 0.00 min

Lab File: VN061114.D

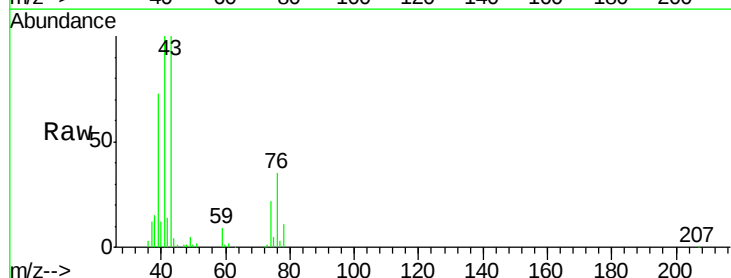
Acq: 20 Apr 2020 20:01

Tgt Ion: 43 Resp: 118436

Ion Ratio Lower Upper

43 100

74 21.6 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

40000

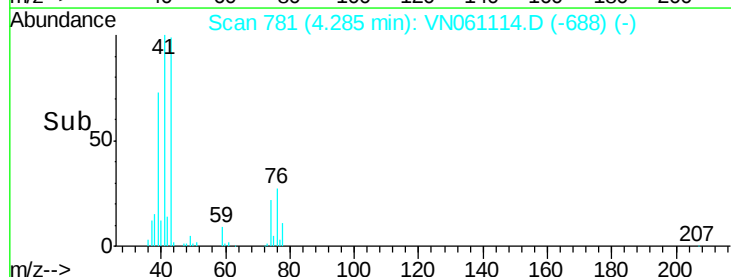
30000

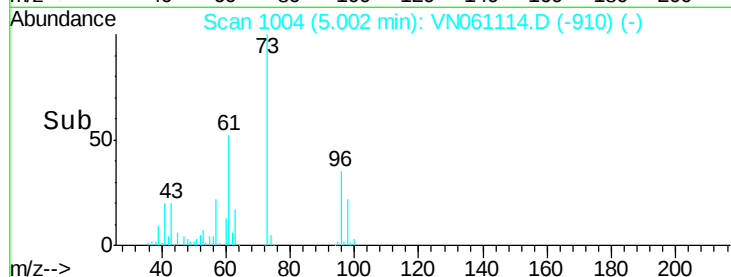
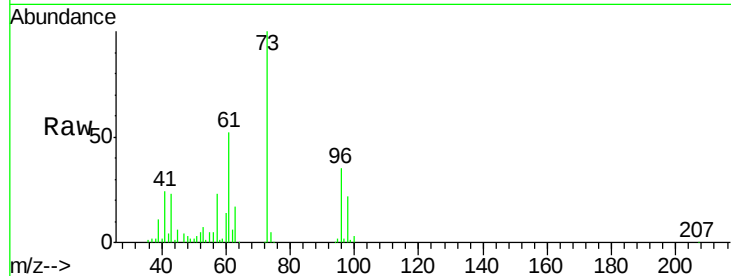
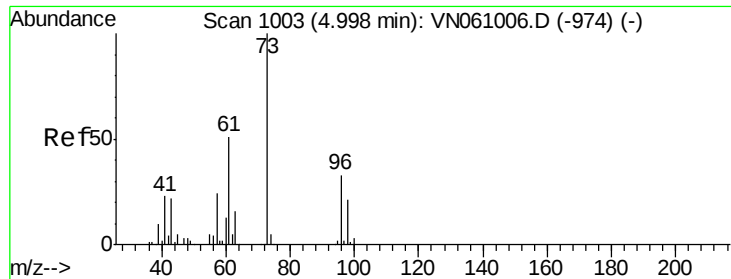
20000

10000

0

Time-->





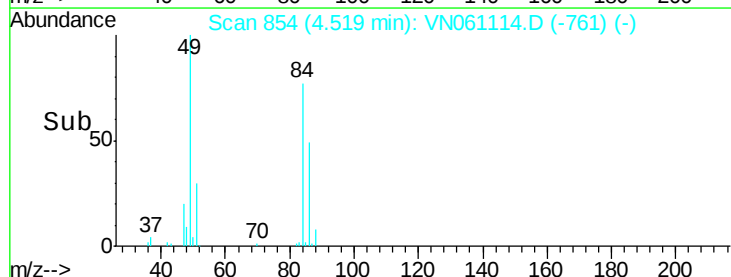
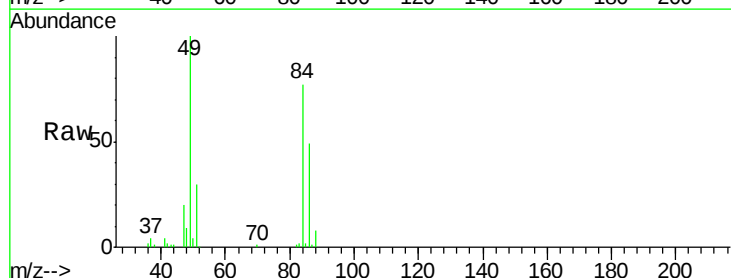
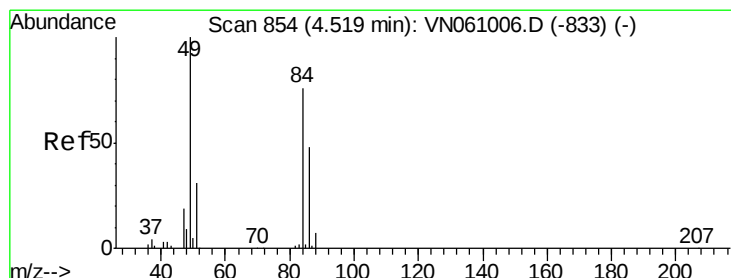
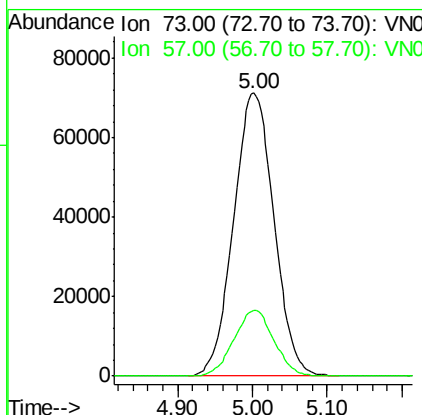
#19
Methvl tert-butvl Ether
Concen: 47.652 ug/l
RT: 5.00 min Scan# 1004
Delta R.T. 0.00 min
Lab File: VN061114.D
Acq: 20 Apr 2020 20:01

Tot Ion: 73 Resp: 266857
Ion Ratio Lower Upper
73 100
57 23.2 19.0 28.4

Instrument :
MSVOA_N
ClientSampleId :
PA-TWP-2MS

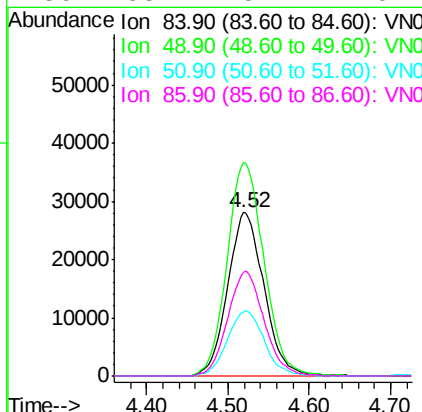
Manual Integrations
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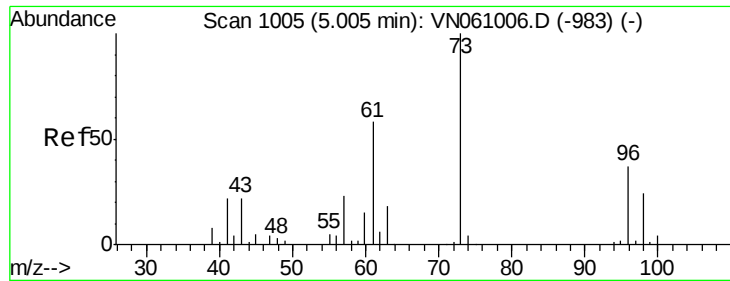
MMDadoda
4/21/2020 12:00:08 PM



#20
Methylene Chloride
Concen: 48.326 ug/l
RT: 4.52 min Scan# 854
Delta R.T. 0.00 min
Lab File: VN061114.D
Acq: 20 Apr 2020 20:01

Tgt Ion: 84 Resp: 87206
Ion Ratio Lower Upper
84 100
49 130.4 105.8 158.6
51 39.4 32.4 48.6
86 63.7 51.1 76.7





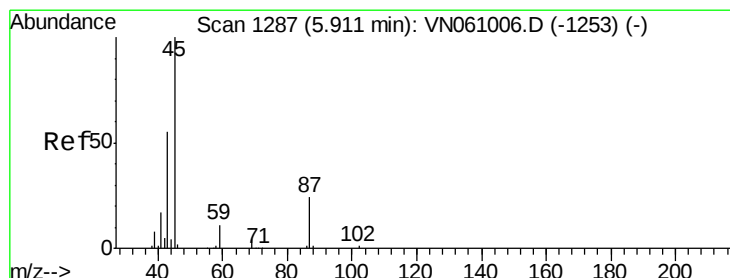
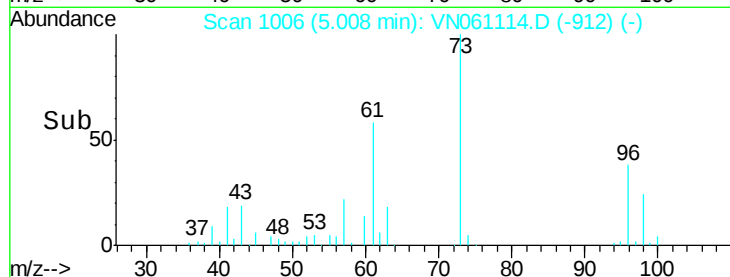
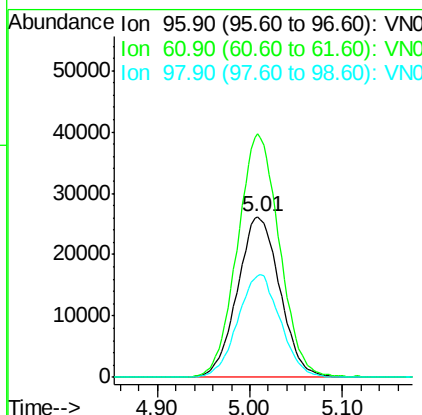
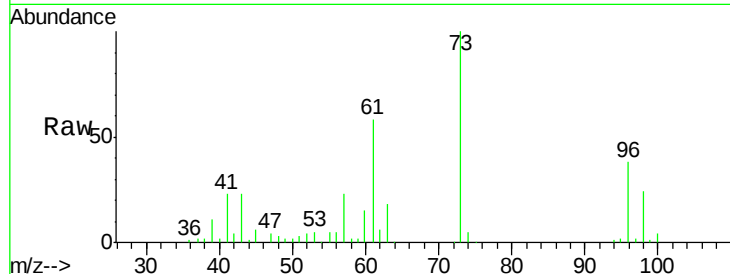
#21
trans-1,2-Dichloroethene
Concen: 48.438 ug/l
RT: 5.01 min Scan# 1006
Delta R.T. 0.00 min
Lab File: VN061114.D
Acq: 20 Apr 2020 20:01

Instrument :
MSVOA_N
ClientSampleId :
PA-TWP-2MS

Tot Ion	Ratio	Lower	Upper
96	100		
61	151.7	124.8	187.2
98	63.4	51.3	76.9

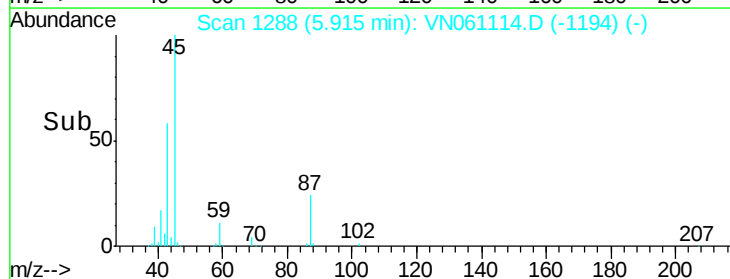
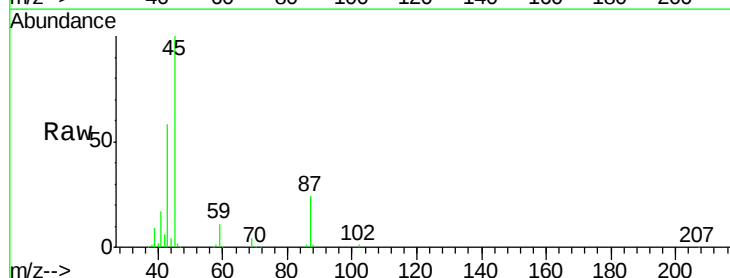
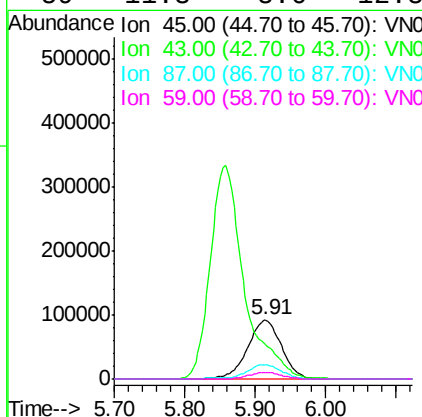
Manual Integrations
APPROVED

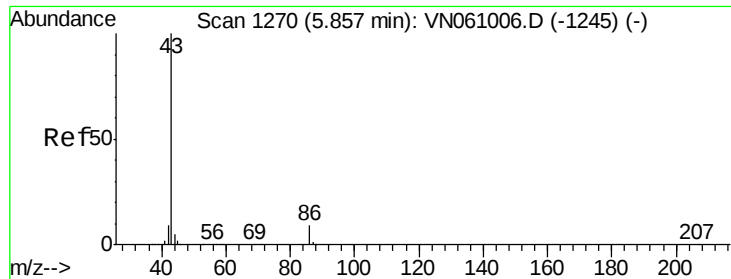
MMDadoda
4/21/2020 12:00:08 PM



#22
Diisopropyl ether
Concen: 49.029 ug/l
RT: 5.91 min Scan# 1288
Delta R.T. 0.00 min
Lab File: VN061114.D
Acq: 20 Apr 2020 20:01

Tgt Ion	Ratio	Lower	Upper
45	100		
43	57.3	48.6	72.8
87	23.8	19.4	29.2
59	11.3	8.6	12.8





#23

Vinyl Acetate

Concen: 227.071 ug/l

RT: 5.86 min Scan# 1270

Delta R.T. 0.00 min

Lab File: VN061114.D

Acq: 20 Apr 2020 20:01

Instrument :

MSVOA_N

ClientSampleId :

PA-TWP-2MS

Tot Ion: 43 Resp: 1123807

Ion Ratio Lower Upper

43 100

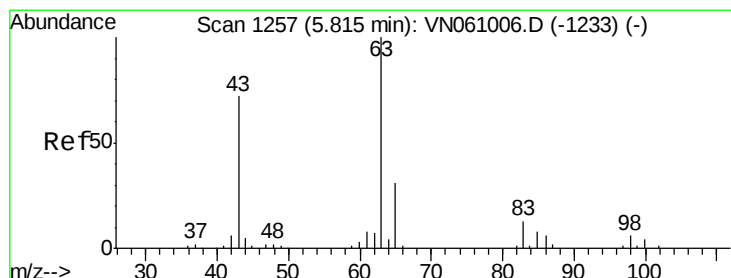
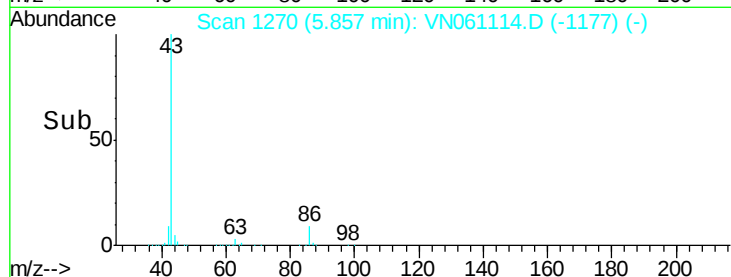
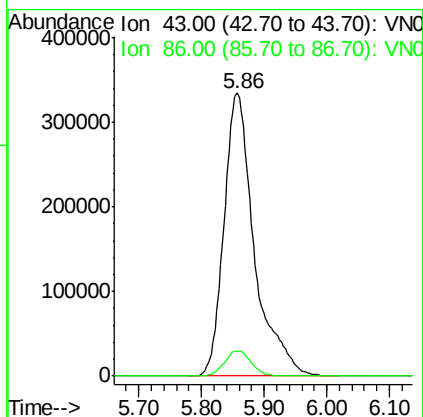
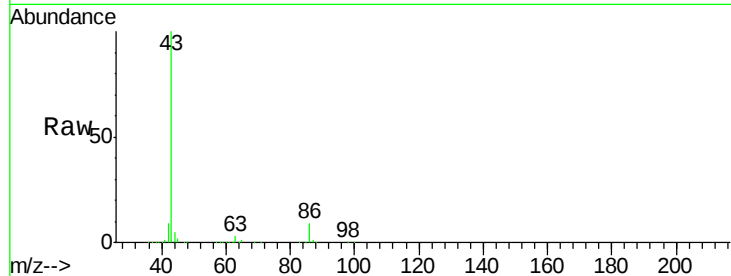
86 9.0 7.3 10.9

Manual Integrations

APPROVED

MMDadoda

4/21/2020 12:00:08 PM



#24

1,1-Dichloroethane

Concen: 48.611 ug/l

RT: 5.82 min Scan# 1257

Delta R.T. 0.00 min

Lab File: VN061114.D

Acq: 20 Apr 2020 20:01

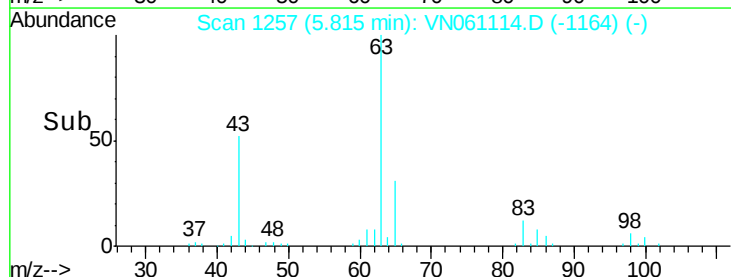
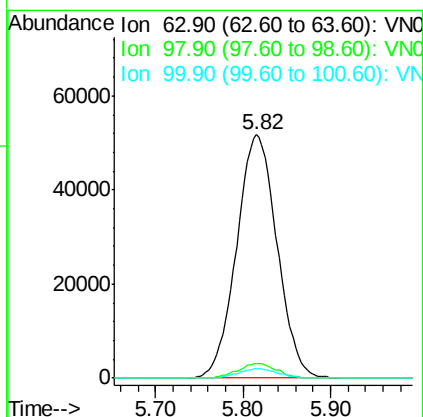
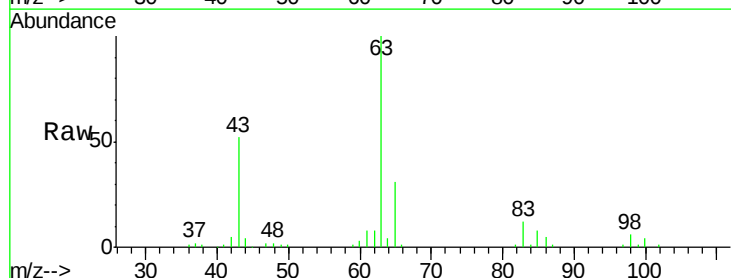
Tgt Ion: 63 Resp: 165701

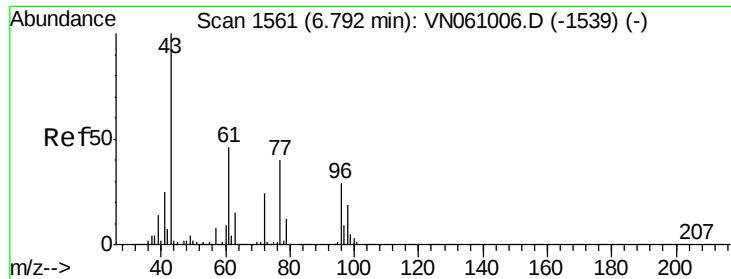
Ion Ratio Lower Upper

63 100

98 6.1 2.9 8.8

100 4.0 2.0 5.8





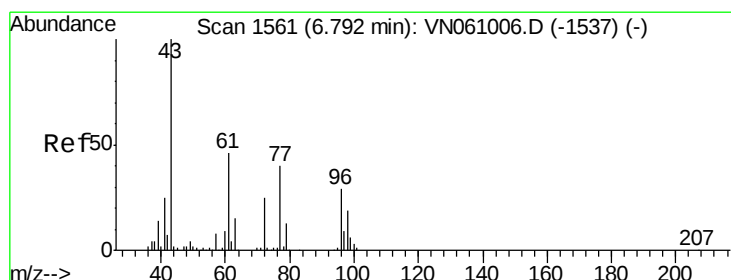
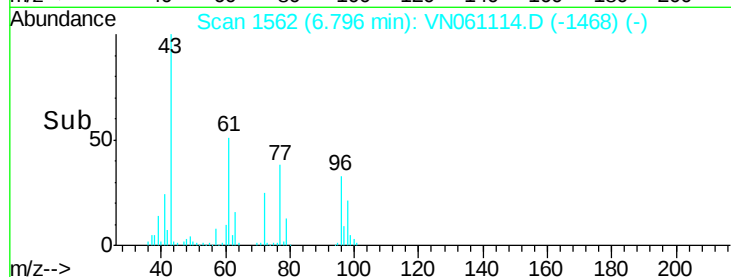
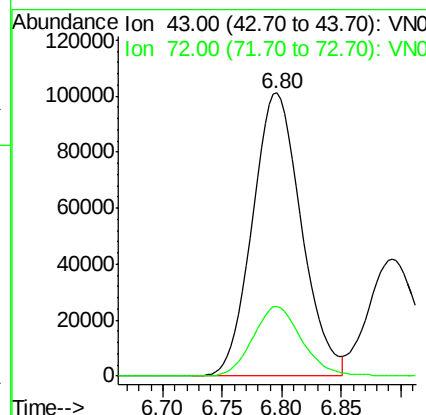
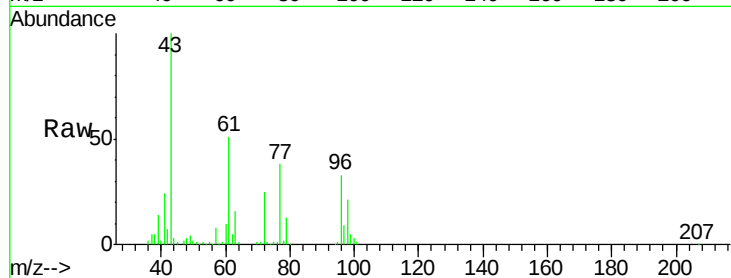
#25
2-Butanone
Concen: 226.342 ug/l
RT: 6.80 min Scan# 1562
Delta R.T. 0.00 min
Lab File: VN061114.D
Acq: 20 Apr 2020 20:01

Instrument :
MSVOA_N
ClientSampleId :
PA-TWP-2MS

Tot Ion	Ratio	Lower	Upper
43	100		
72	24.6	19.6	29.4

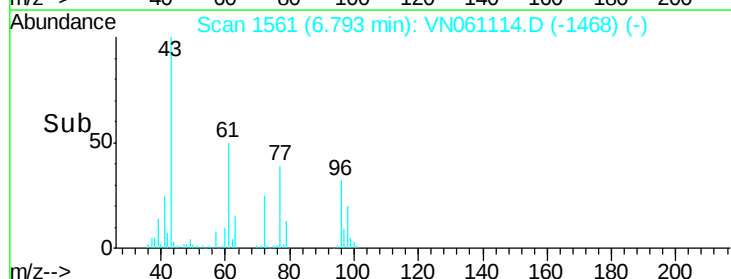
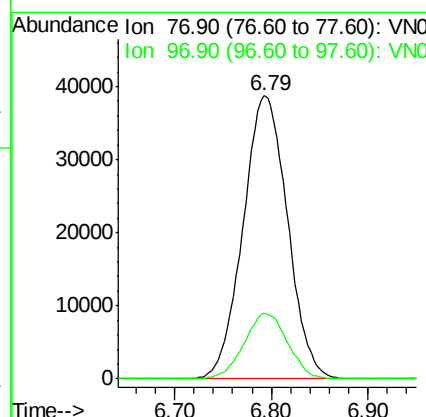
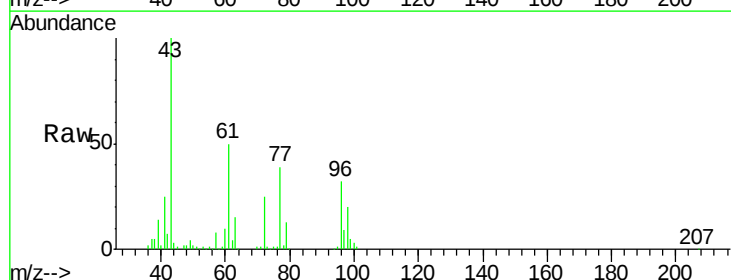
Manual Integrations
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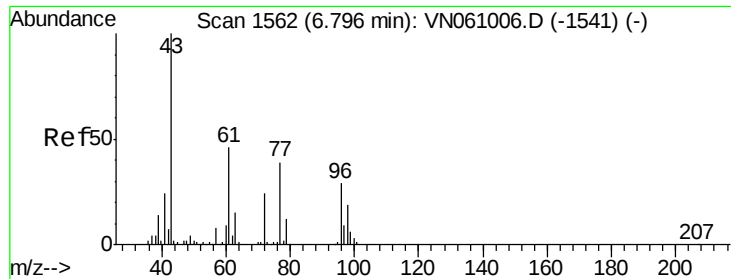
MMDadoda
4/21/2020 12:00:08 PM



#26
2,2-Dichloropropane
Concen: 43.538 ug/l
RT: 6.79 min Scan# 1561
Delta R.T. 0.00 min
Lab File: VN061114.D
Acq: 20 Apr 2020 20:01

Tgt Ion	Ratio	Lower	Upper
77	100		
97	22.6	11.2	33.6





#27

cis-1,2-Dichloroethene

Concen: 48.195 ug/l

RT: 6.80 min Scan# 1563

Delta R.T. 0.00 min

Lab File: VN061114.D

Acq: 20 Apr 2020 20:01

Instrument :

MSVOA_N

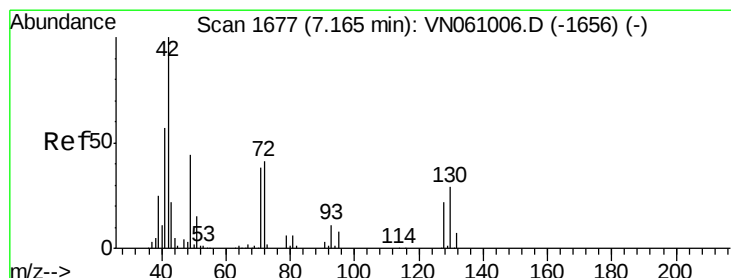
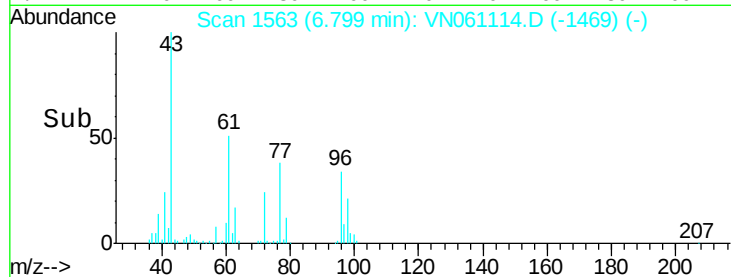
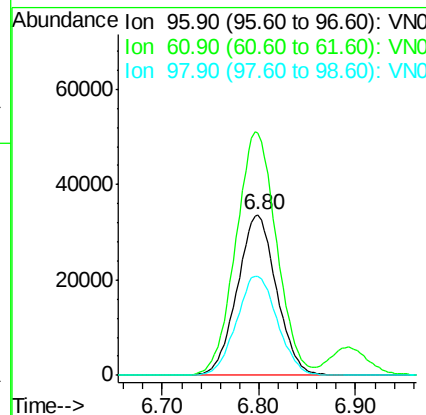
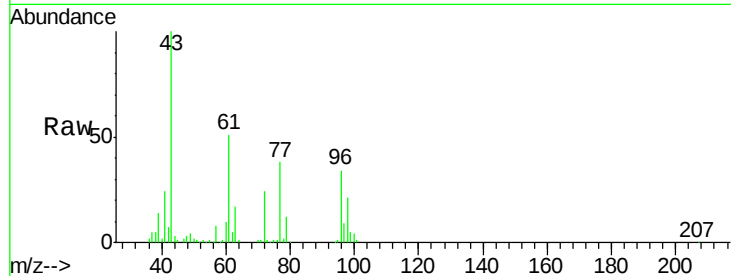
ClientSampleId :

PA-TWP-2MS

Tot Ion:	96	Resp:	95049
Ion	Ratio	Lower	Upper
96	100		
61	156.9	0.0	317.4
98	64.3	0.0	127.8

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4/21/2020 12:00:08 PM



#28

Bromochloromethane

Concen: 49.780 ug/l

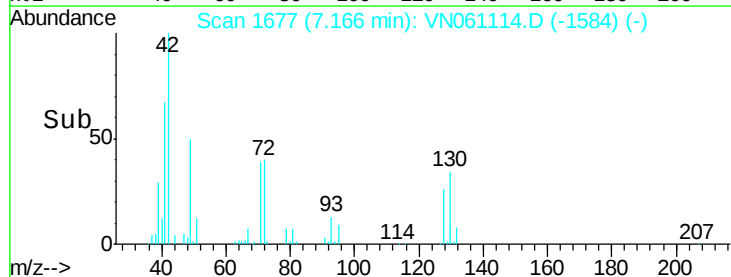
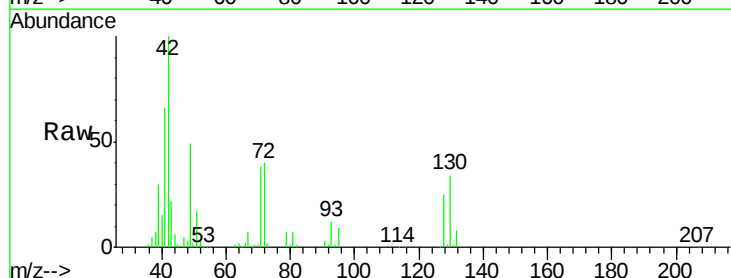
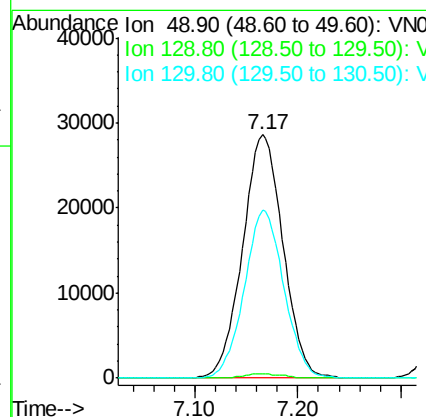
RT: 7.17 min Scan# 1677

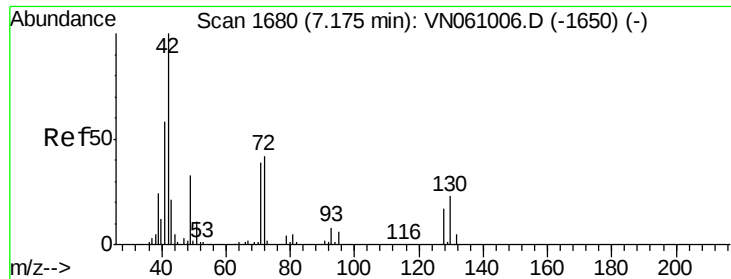
Delta R.T. 0.00 min

Lab File: VN061114.D

Acq: 20 Apr 2020 20:01

Tgt Ion:	49	Resp:	77890
Ion	Ratio	Lower	Upper
49	100		
129	1.6	0.0	3.0
130	67.5	52.9	79.3





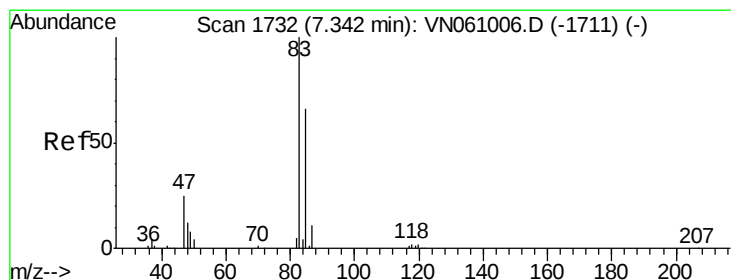
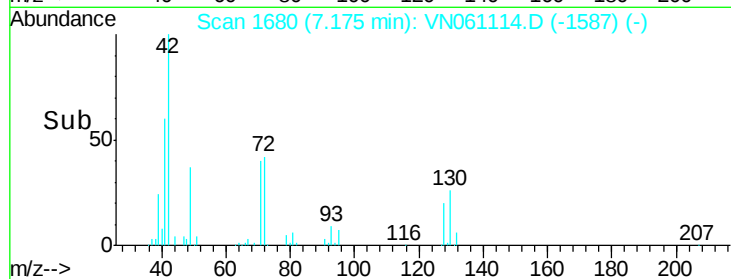
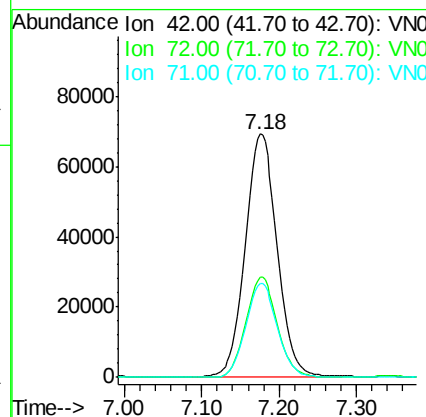
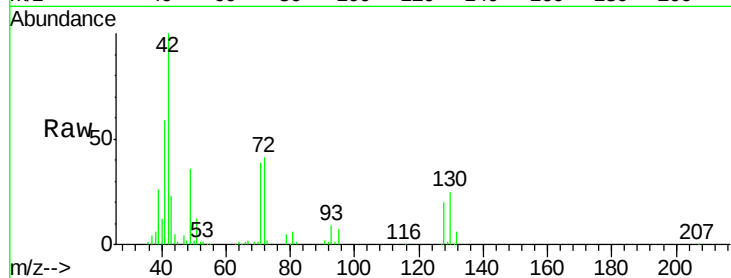
#29
Tetrahydrofuran
Concen: 231.795 ug/l
RT: 7.18 min Scan# 1680
Delta R.T. 0.00 min
Lab File: VN061114.D
Acq: 20 Apr 2020 20:01

Instrument :
MSVOA_N
ClientSampleId :
PA-TWP-2MS

Tot Ion	Ratio	Lower	Upper
42	100		
72	40.3	32.1	48.1
71	38.0	30.5	45.7

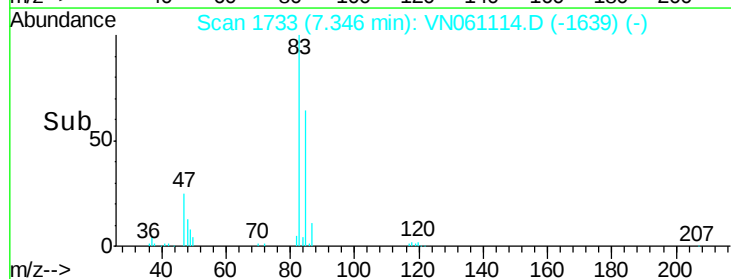
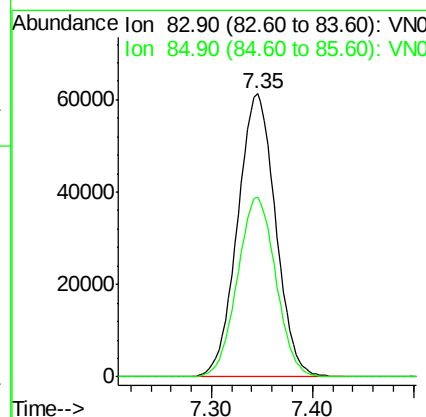
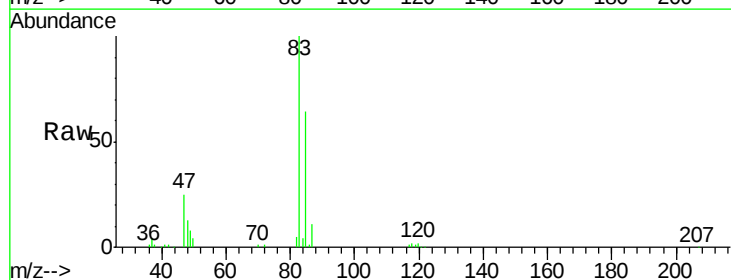
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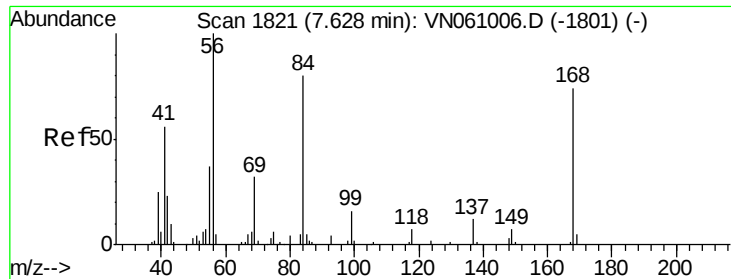
MMDadoda
4/21/2020 12:00:08 PM



#30
Chloroform
Concen: 50.370 ug/l
RT: 7.35 min Scan# 1733
Delta R.T. 0.00 min
Lab File: VN061114.D
Acq: 20 Apr 2020 20:01

Tgt Ion	Ratio	Lower	Upper
83	100		
85	63.6	52.8	79.2





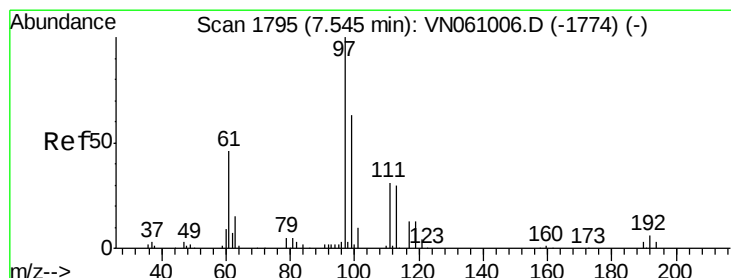
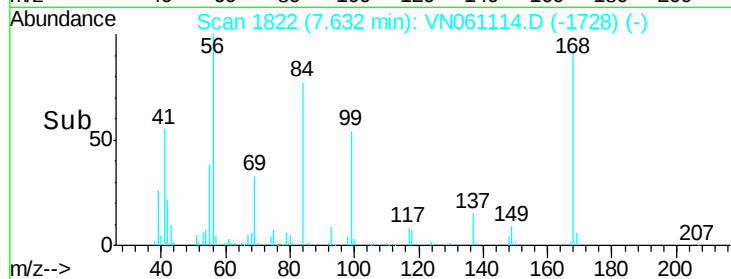
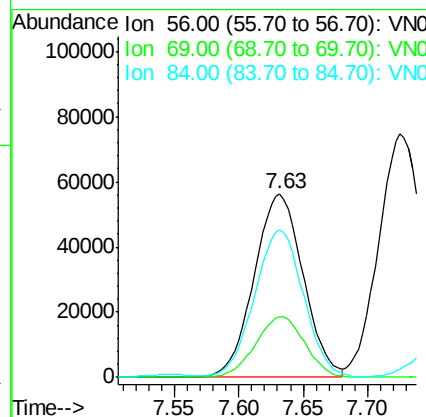
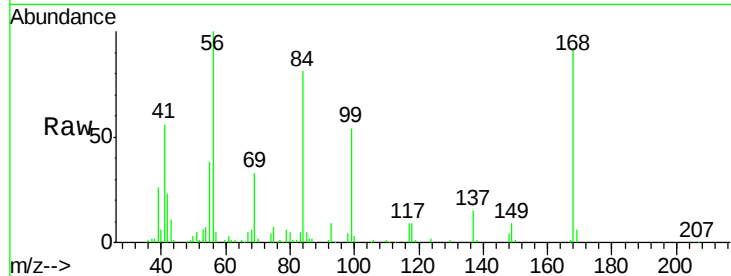
#31
Cyclohexane
Concen: 42.661 ug/l
RT: 7.63 min Scan# 1822
Delta R.T. 0.00 min
Lab File: VN061114.D
Acq: 20 Apr 2020 20:01

Instrument :
MSVOA_N
ClientSampleId :
PA-TWP-2MS

Tot Ion	Ratio	Lower	Upper
56	100		
69	32.9	25.6	38.4
84	79.7	63.4	95.2

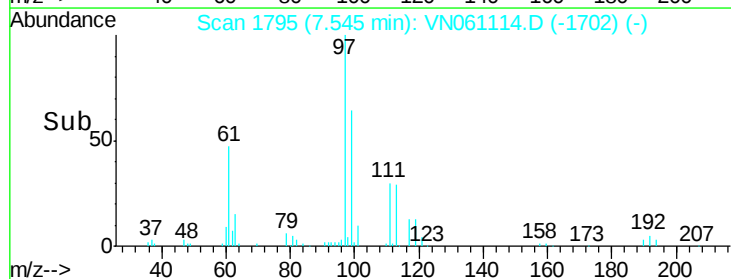
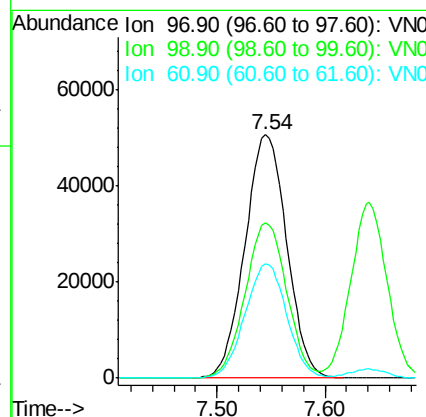
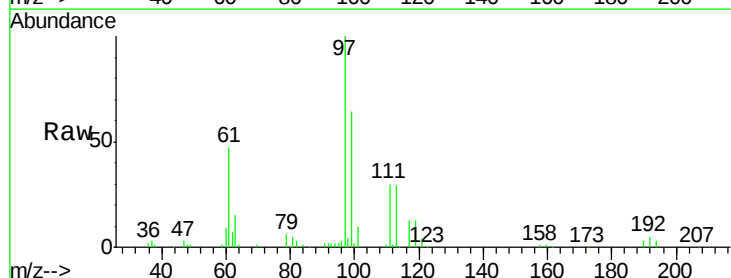
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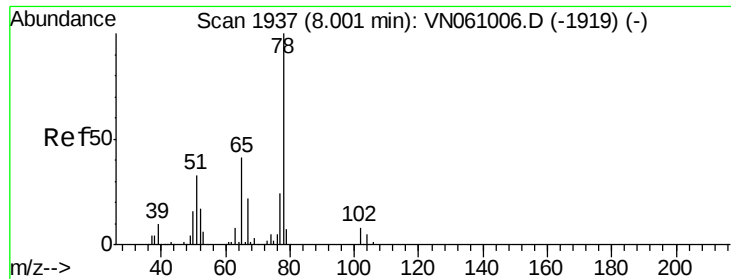
MMDadoda
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#32
1,1,1-Trichloroethane
Concen: 49.663 ug/l
RT: 7.54 min Scan# 1795
Delta R.T. 0.00 min
Lab File: VN061114.D
Acq: 20 Apr 2020 20:01

Tgt Ion	Ratio	Lower	Upper
97	100		
99	63.5	51.0	76.4
61	46.9	37.0	55.6





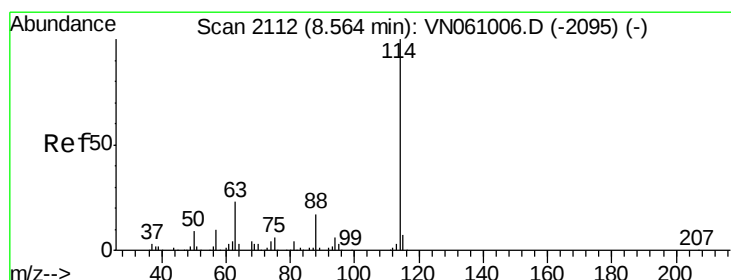
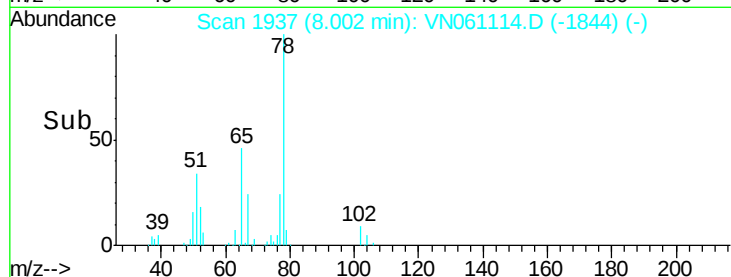
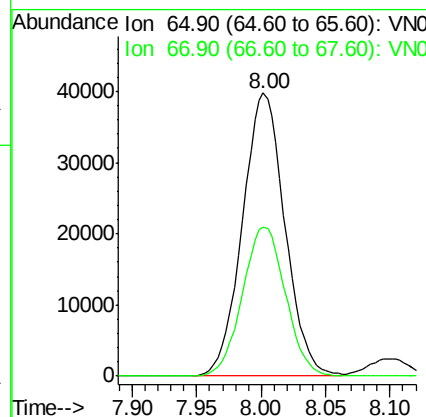
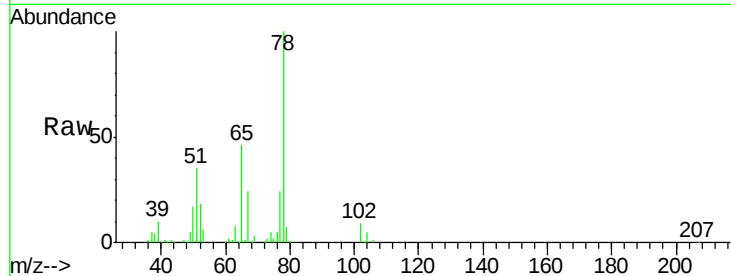
#33
 1,2-Dichloroethane-d4
 Concen: 48.526 ug/l
 RT: 8.00 min Scan# 1937
 Delta R.T. 0.00 min
 Lab File: VN061114.D
 Acq: 20 Apr 2020 20:01

Instrument :
 MSVOA_N
 ClientSampleId :
 PA-TWP-2MS

Tot Ion	Ratio	Resp	Lower	Upper
65	100	91121		
67	53.4	0.0	107.0	

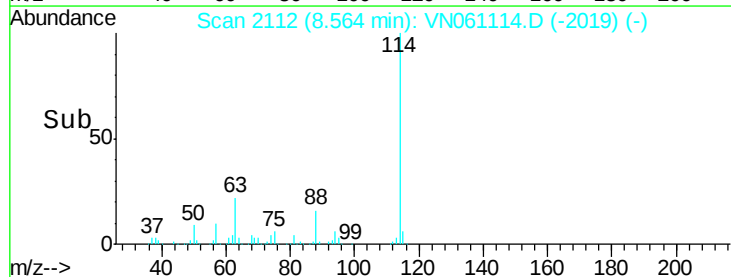
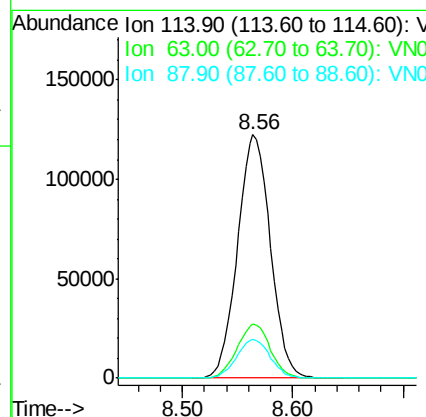
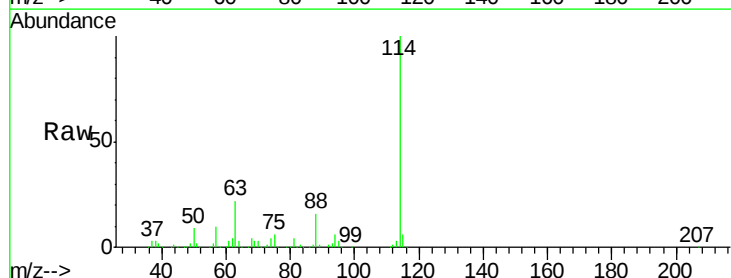
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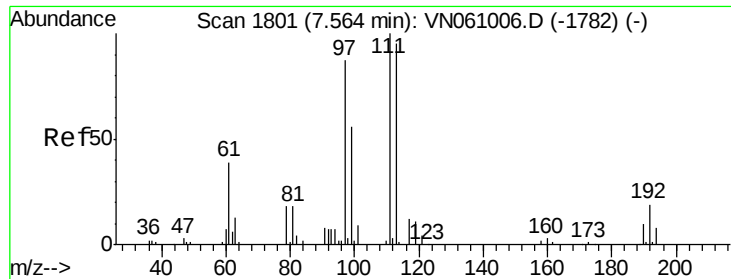
MMDadoda
 4/21/2020 12:00:08 PM



#34
 1,4-Difluorobenzene
 Concen: 50.000 ug/l
 RT: 8.56 min Scan# 2112
 Delta R.T. 0.00 min
 Lab File: VN061114.D
 Acq: 20 Apr 2020 20:01

Tgt Ion	Ratio	Resp	Lower	Upper
114	100	252159		
63	22.3	0.0	46.2	
88	15.8	0.0	33.4	





#35

Dibromofluoromethane

Concen: 48.556 ug/l

RT: 7.56 min Scan# 1801

Delta R.T. 0.00 min

Lab File: VN061114.D

Acq: 20 Apr 2020 20:01

Instrument :

MSVOA_N

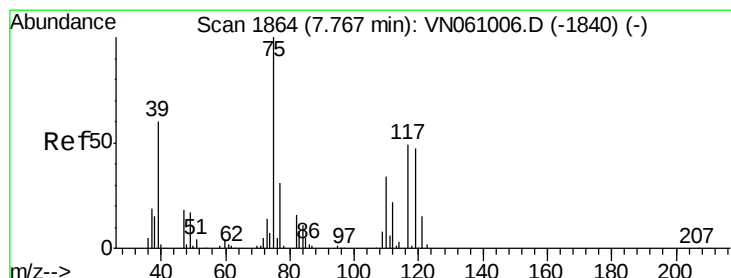
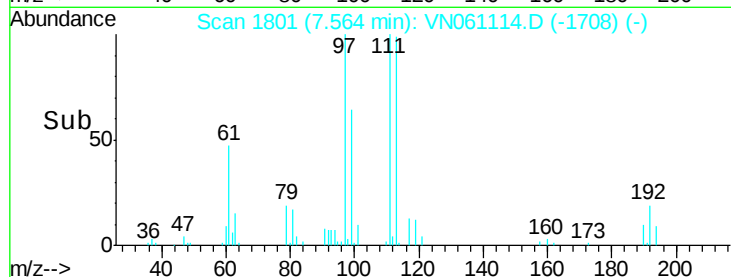
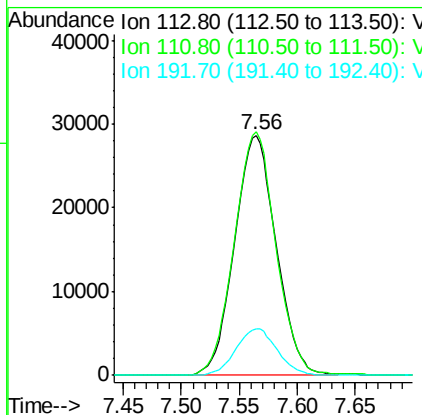
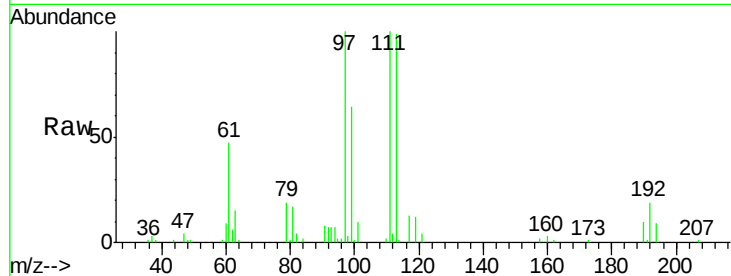
ClientSampleId :

PA-TWP-2MS

Tot Ion:	113	Resp:	71502
Ion	Ratio	Lower	Upper
113	100		
111	101.3	83.4	125.2
192	19.1	15.5	23.3

Manual Integrations
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4/21/2020 12:00:08 PM



#36

1,1-Dichloropropene

Concen: 46.953 ug/l

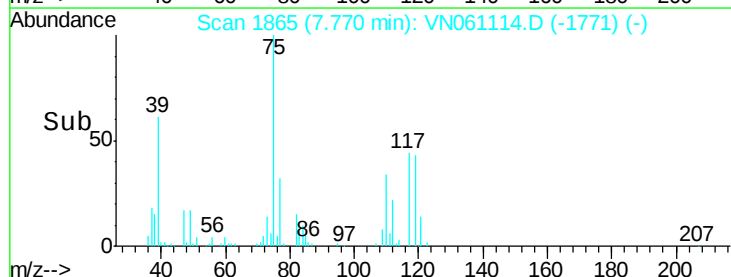
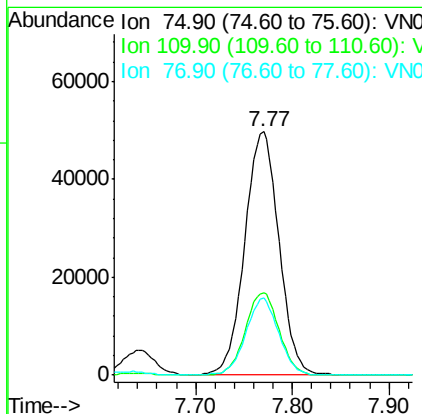
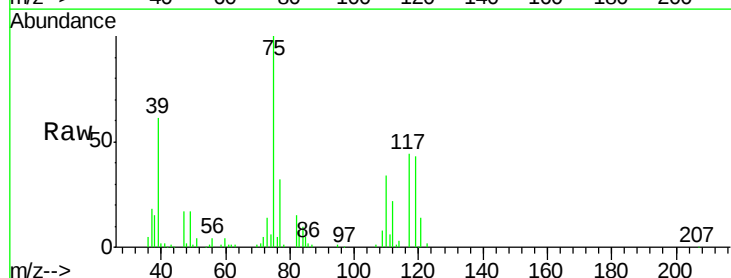
RT: 7.77 min Scan# 1865

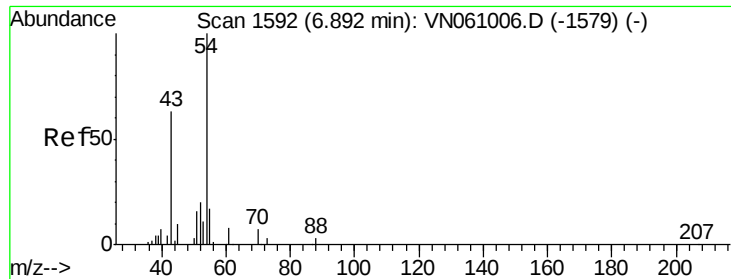
Delta R.T. 0.00 min

Lab File: VN061114.D

Acq: 20 Apr 2020 20:01

Tgt Ion:	75	Resp:	122174
Ion	Ratio	Lower	Upper
75	100		
110	33.2	16.8	50.3
77	30.3	24.7	37.1





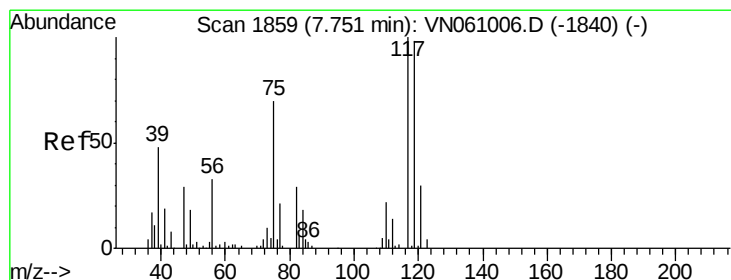
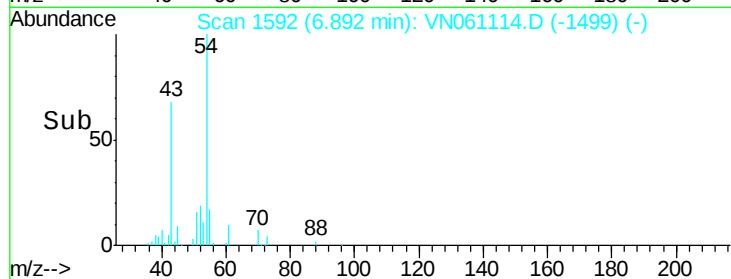
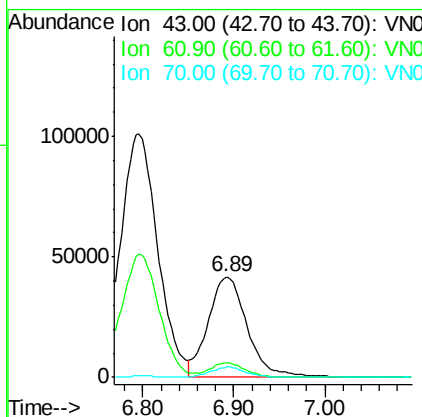
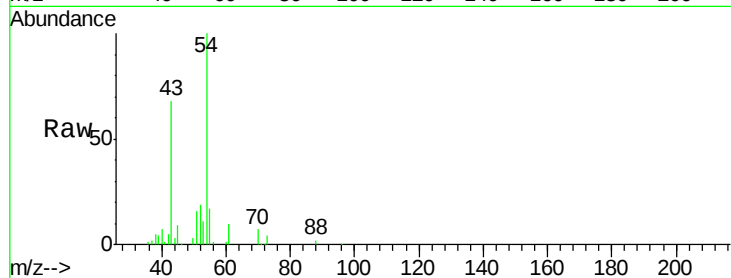
#37
Ethyl Acetate
Concen: 43.190 ug/l
RT: 6.89 min Scan# 1592
Delta R.T. 0.00 min
Lab File: VN061114.D
Acq: 20 Apr 2020 20:01

Instrument :
MSVOA_N
ClientSampleId :
PA-TWP-2MS

Tot Ion	Ratio	Lower	Upper
43	100		
61	13.8	10.9	16.3
70	9.3	7.7	11.5

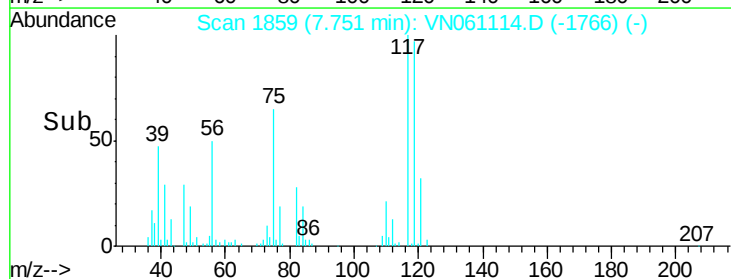
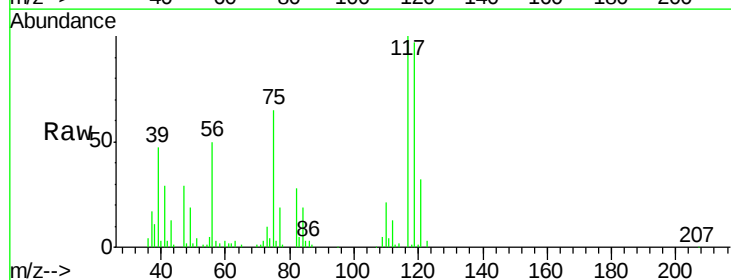
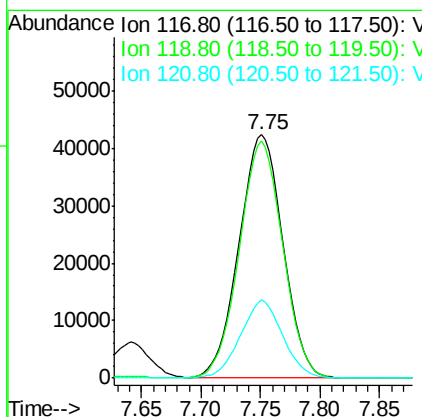
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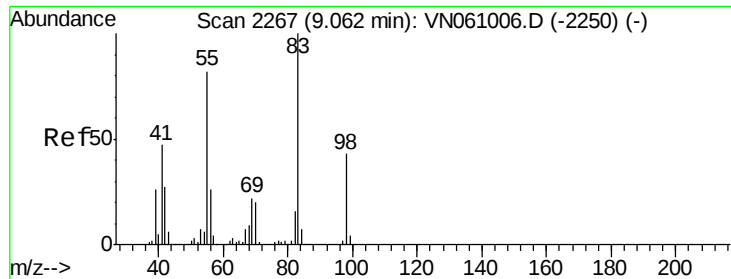
MMDadoda
4/21/2020 12:00:08 PM



#38
Carbon Tetrachloride
Concen: 50.172 ug/l
RT: 7.75 min Scan# 1859
Delta R.T. 0.00 min
Lab File: VN061114.D
Acq: 20 Apr 2020 20:01

Tgt Ion	Ratio	Lower	Upper
117	100		
119	97.2	78.1	117.1
121	32.1	24.0	36.0





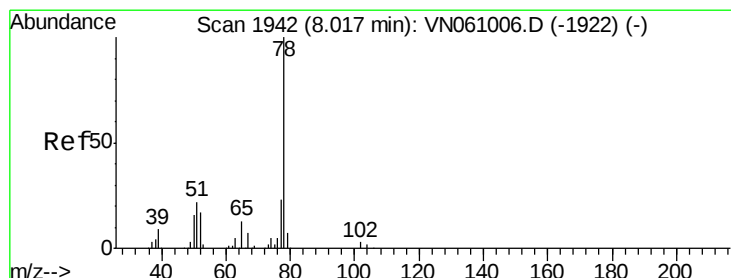
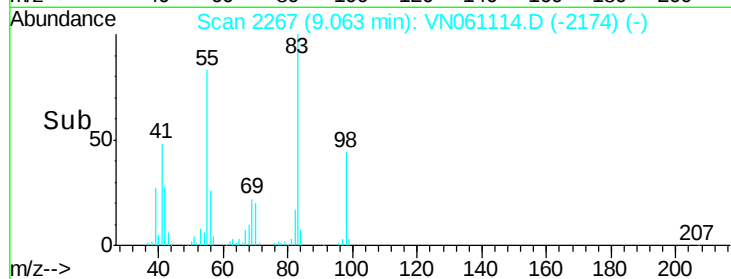
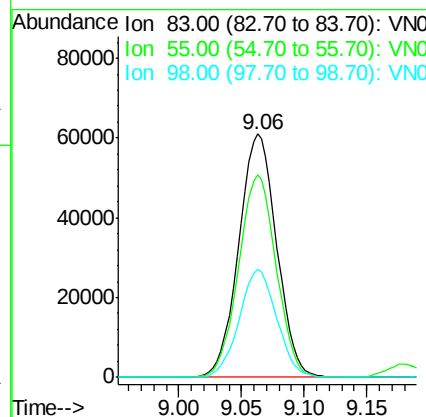
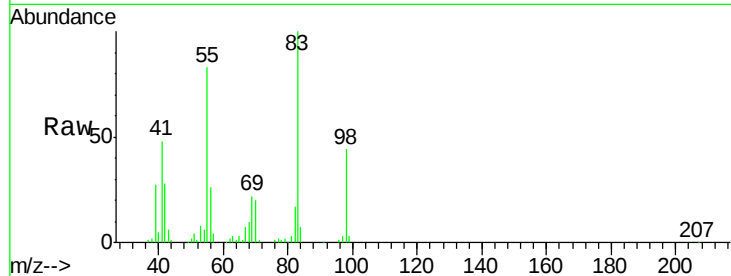
#39
Methvlcvclohexane
Concen: 41.187 ug/l
RT: 9.06 min Scan# 2267
Delta R.T. 0.00 min
Lab File: VN061114.D
Acq: 20 Apr 2020 20:01

Instrument :
MSVOA_N
ClientSampleId :
PA-TWP-2MS

Tot Ion	Ratio	Resp	Lower	Upper
83	100	128128		
55	83.0		65.4	98.0
98	44.1		34.6	51.8

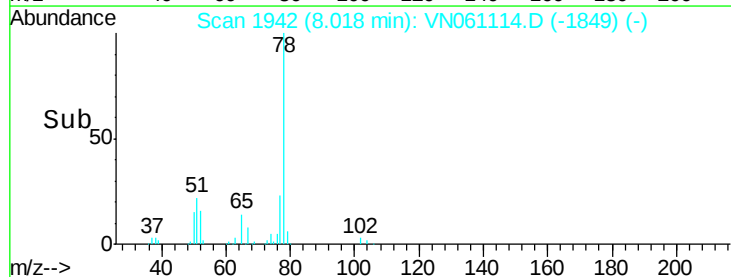
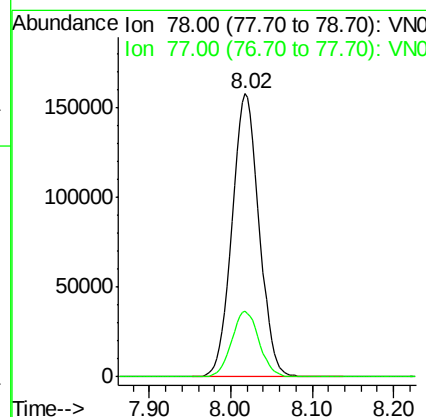
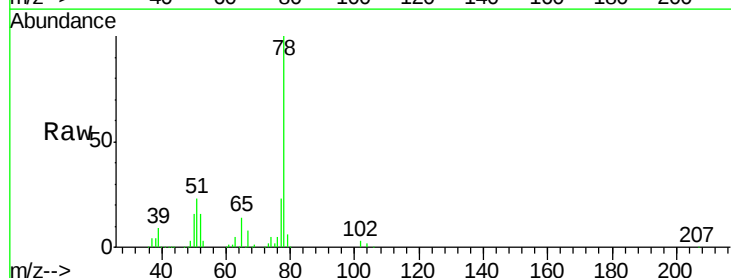
Manual Integrations
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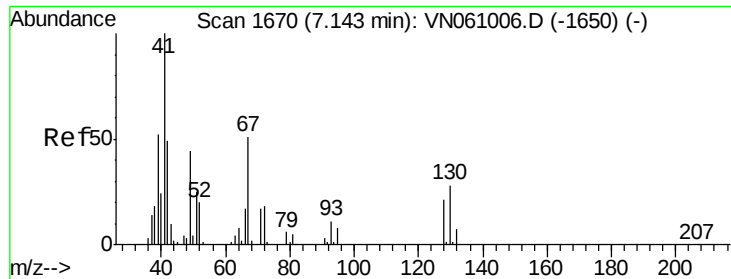
MMDadoda
4/21/2020 12:00:08 PM



#40
Benzene
Concen: 47.554 ug/l
RT: 8.02 min Scan# 1942
Delta R.T. 0.00 min
Lab File: VN061114.D
Acq: 20 Apr 2020 20:01

Tgt Ion	Ratio	Resp	Lower	Upper
78	100	367087		
77	23.2		18.8	28.2





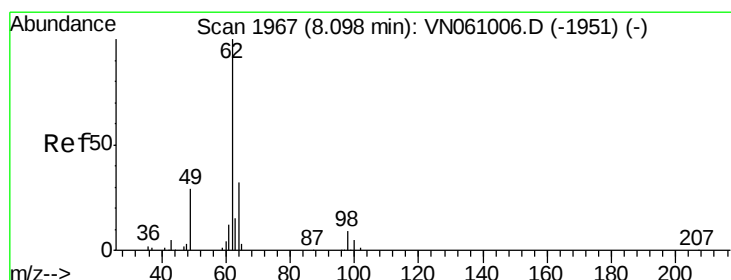
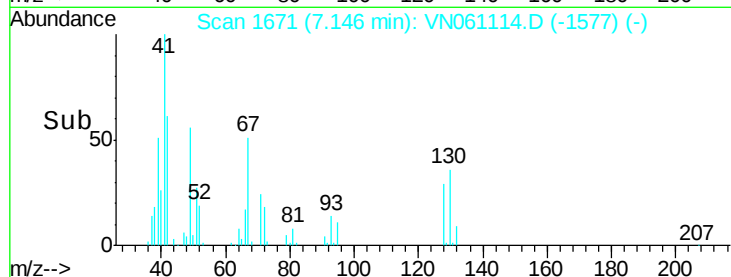
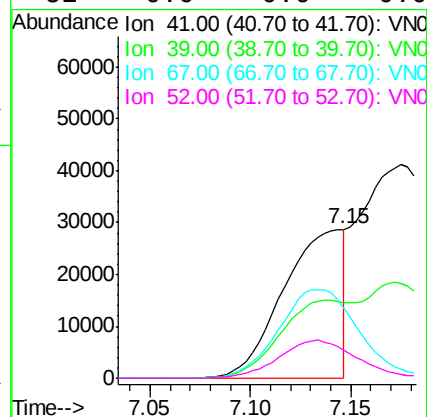
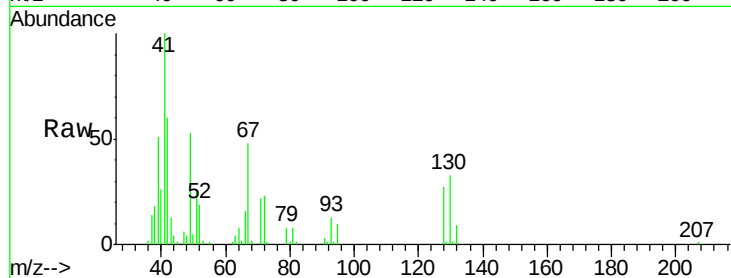
#41
Methacrylonitrile
Concen: 50.761 ug/l m
RT: 7.15 min Scan# 1671
Delta R.T. 0.00 min
Lab File: VN061114.D
Acq: 20 Apr 2020 20:01

Instrument :
MSVOA_N
ClientSampled :
PA-TWP-2MS

Tot Ion	41	Resp	59821
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

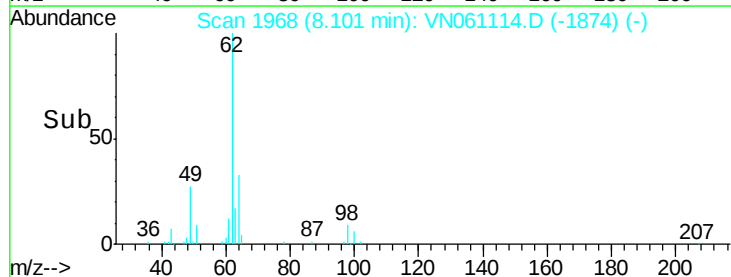
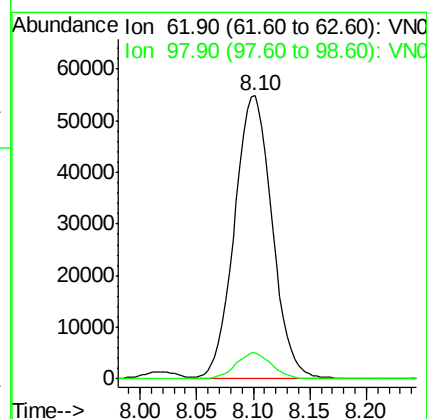
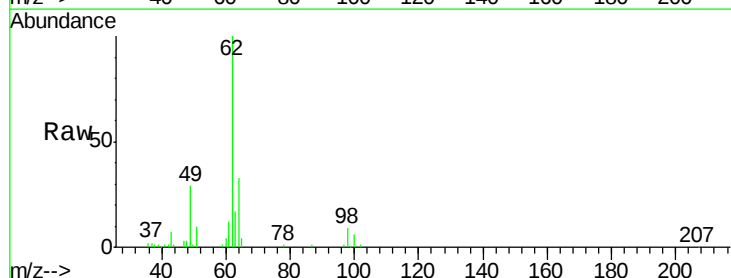
Manual Integrations
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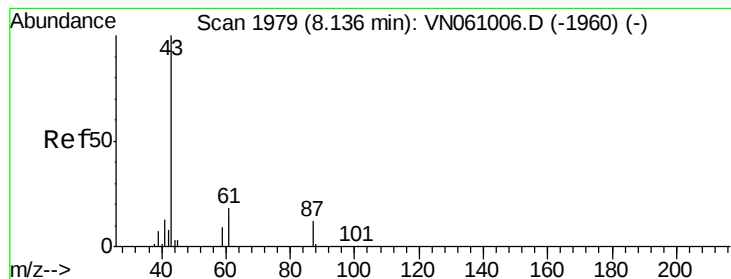
MMDadoda
4/21/2020 12:00:08 PM



#42
1,2-Dichloroethane
Concen: 48.187 ug/l
RT: 8.10 min Scan# 1968
Delta R.T. 0.00 min
Lab File: VN061114.D
Acq: 20 Apr 2020 20:01

Tgt Ion	62	Resp	126715
Ion Ratio	Lower	Upper	
62	100		
98	8.7	0.0	17.2





#43

Isopropyl Acetate

Concen: 45.410 ug/l

RT: 8.14 min Scan# 1979

Delta R.T. 0.00 min

Lab File: VN061114.D

Acq: 20 Apr 2020 20:01

Instrument :

MSVOA_N

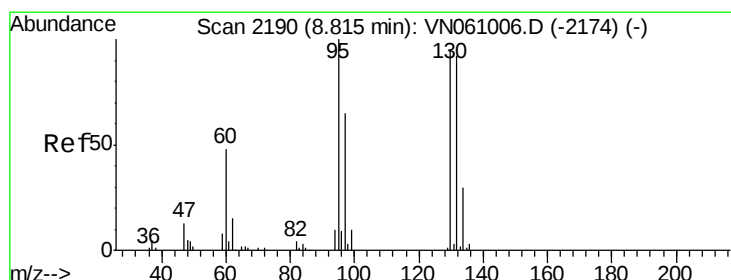
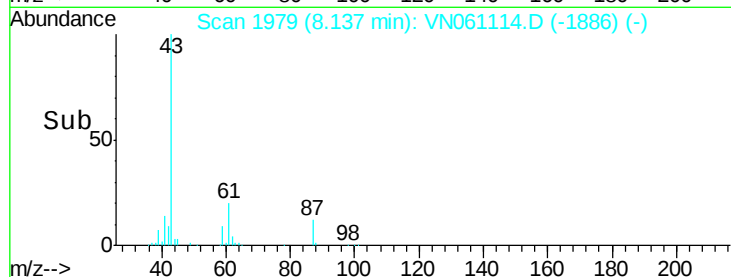
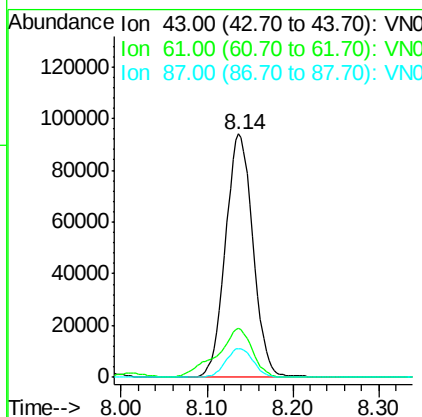
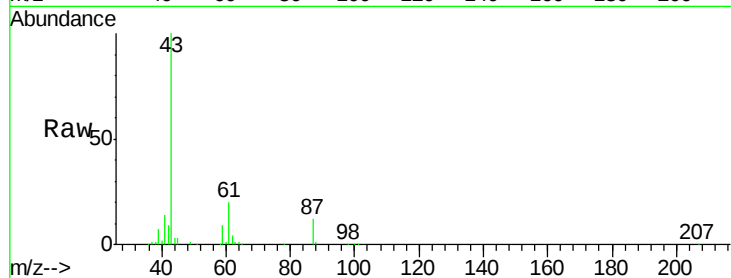
ClientSampleId :

PA-TWP-2MS

Tot Ion:	43	Resp:	208666
Ion	Ratio	Lower	Upper
43	100		
61	25.8	20.3	30.5
87	11.8	9.4	14.2

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4/21/2020 12:00:08 PM



#44

Trichloroethene

Concen: 47.085 ug/l

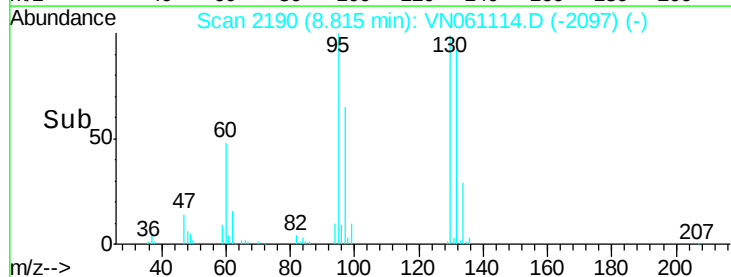
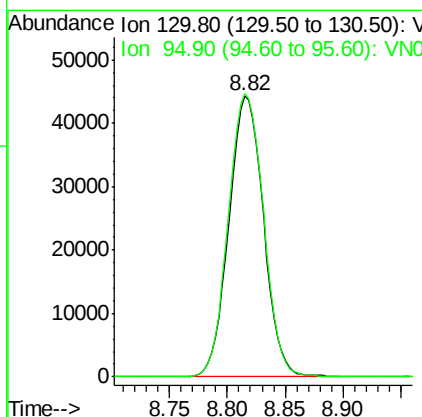
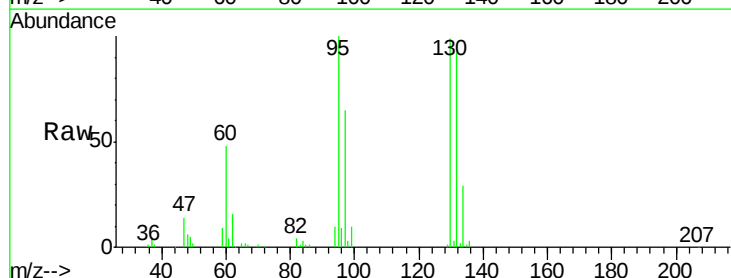
RT: 8.82 min Scan# 2190

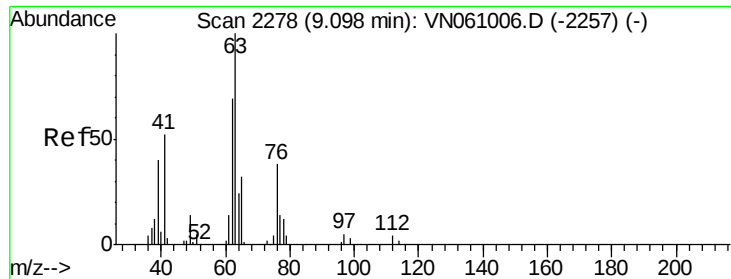
Delta R.T. 0.00 min

Lab File: VN061114.D

Acq: 20 Apr 2020 20:01

Tgt Ion:	130	Resp:	91330
Ion	Ratio	Lower	Upper
130	100		
95	100.7	0.0	210.0





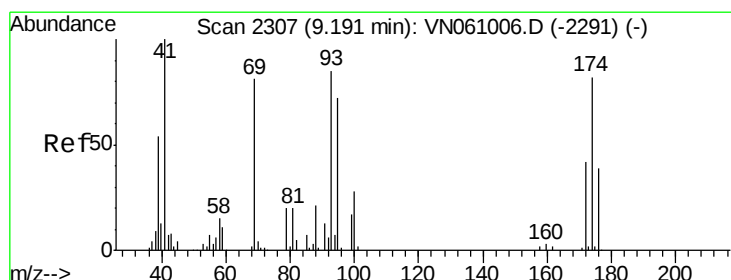
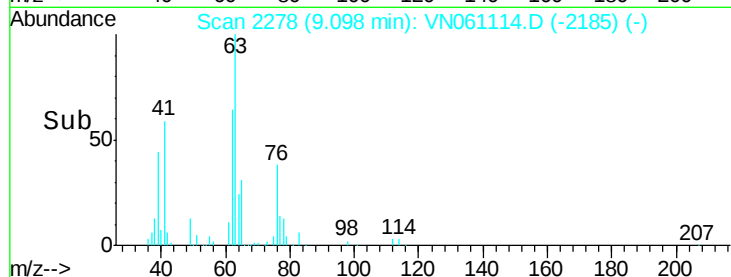
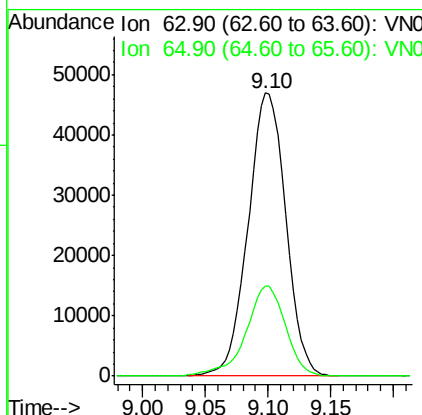
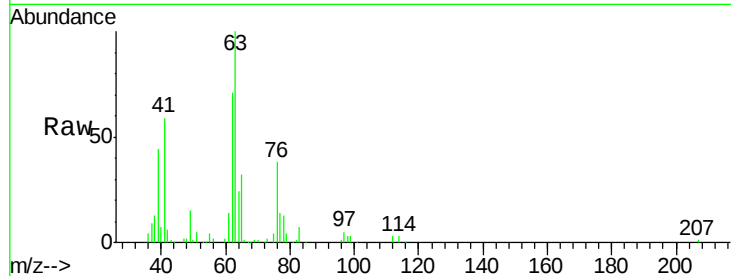
#45
 1,2-Dichloropropane
 Concen: 47.210 ug/l
 RT: 9.10 min Scan# 2278
 Delta R.T. 0.00 min
 Lab File: VN061114.D
 Acq: 20 Apr 2020 20:01

Instrument :
 MSVOA_N
 ClientSampled :
 PA-TWP-2MS

Tot Ion: 63 Resp: 98435
 Ion Ratio Lower Upper
 63 100
 65 32.0 25.2 37.8

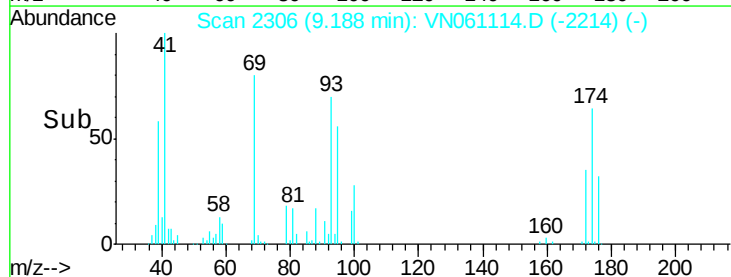
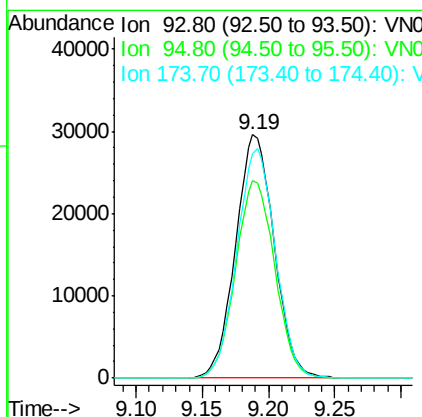
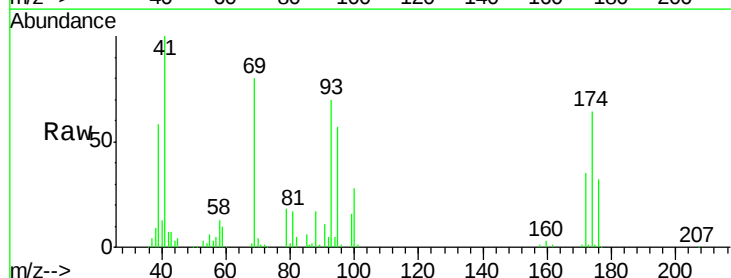
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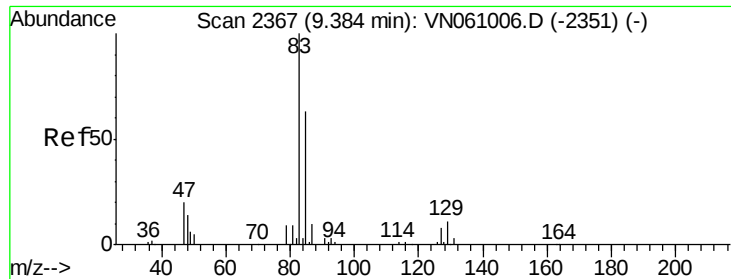
MMDadoda
 4/21/2020 12:00:08 PM



#46
 Dibromomethane
 Concen: 50.023 ug/l
 RT: 9.19 min Scan# 2306
 Delta R.T. -0.00 min
 Lab File: VN061114.D
 Acq: 20 Apr 2020 20:01

Tgt Ion: 93 Resp: 60135
 Ion Ratio Lower Upper
 93 100
 95 82.1 66.8 100.2
 174 93.8 76.2 114.4





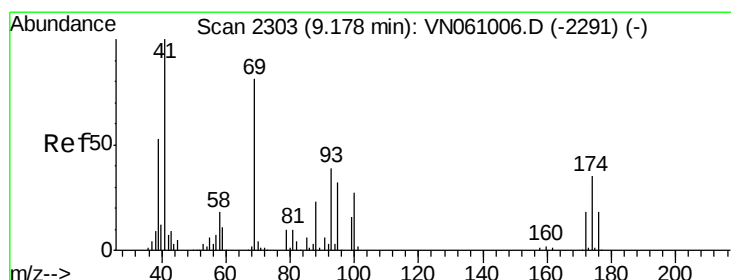
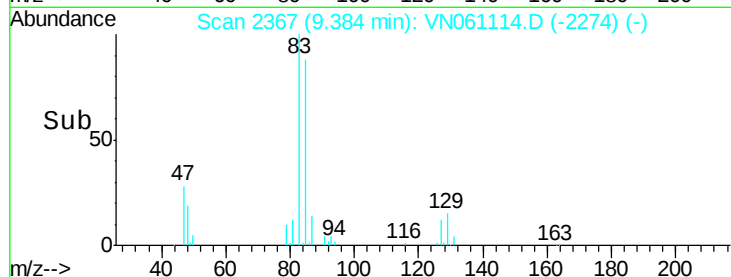
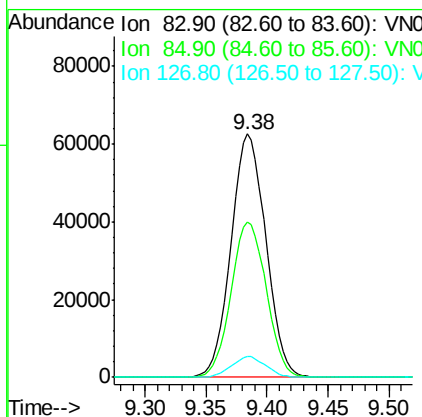
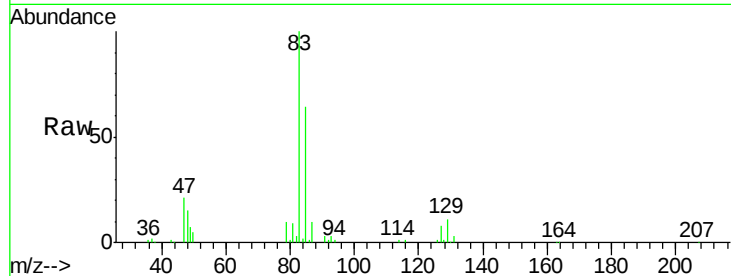
#47
Bromodichloromethane
Concen: 48.920 ug/l
RT: 9.38 min Scan# 2367
Delta R.T. 0.00 min
Lab File: VN061114.D
Acq: 20 Apr 2020 20:01

Instrument :
MSVOA_N
ClientSampleId :
PA-TWP-2MS

Tot Ion	Ratio	Resp	Lower	Upper
83	100	124237		
85	63.9	50.6	76.0	
127	8.4	6.1	9.1	

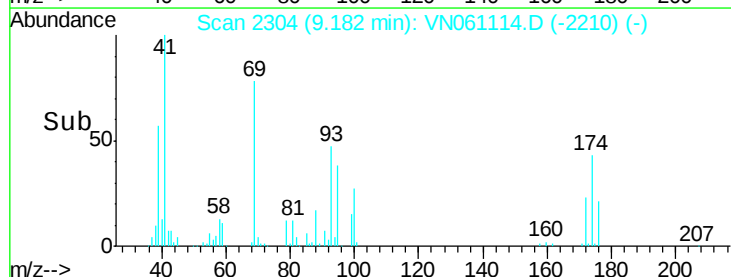
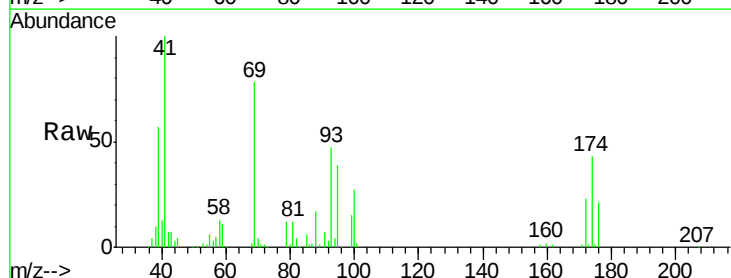
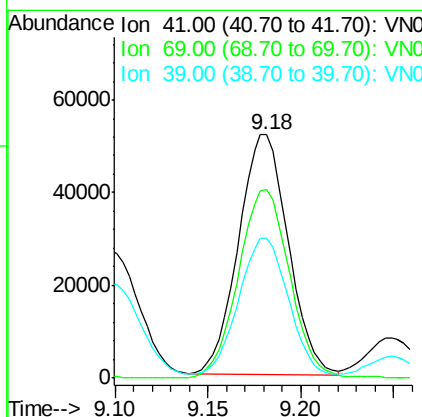
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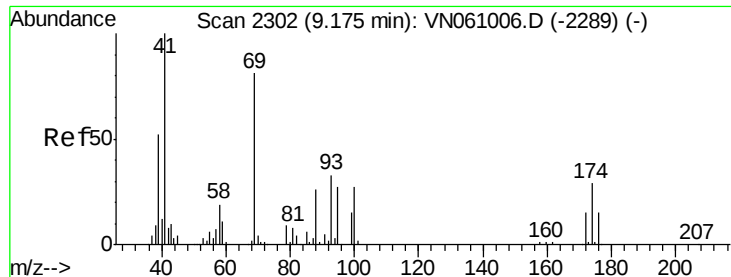
MMDadoda
4/21/2020 12:00:08 PM



#48
Methyl methacrylate
Concen: 47.573 ug/l
RT: 9.18 min Scan# 2304
Delta R.T. 0.00 min
Lab File: VN061114.D
Acq: 20 Apr 2020 20:01

Tgt Ion	Ratio	Resp	Lower	Upper
41	100	96608		
69	81.0	65.3	97.9	
39	59.7	45.2	67.8	





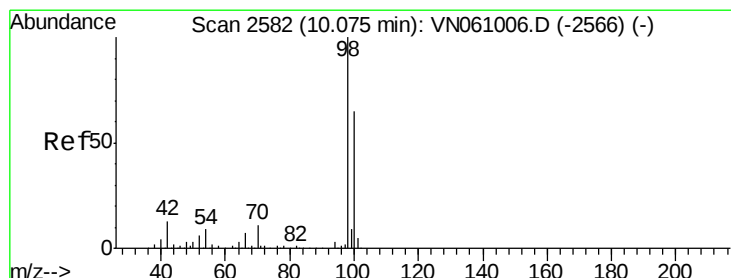
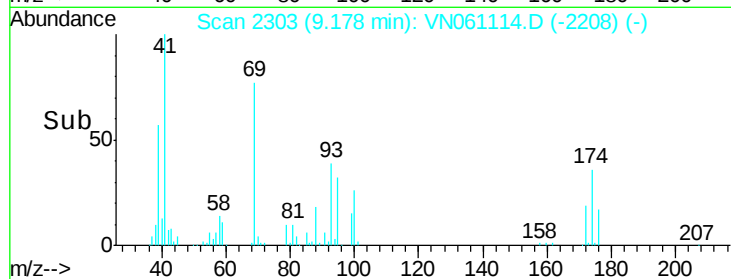
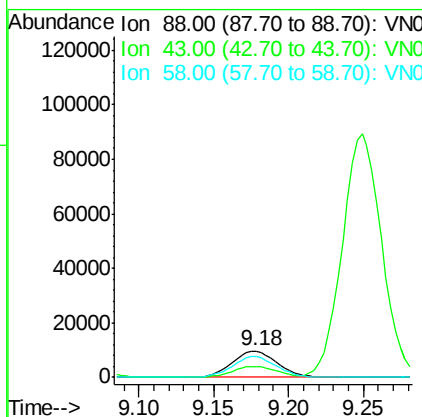
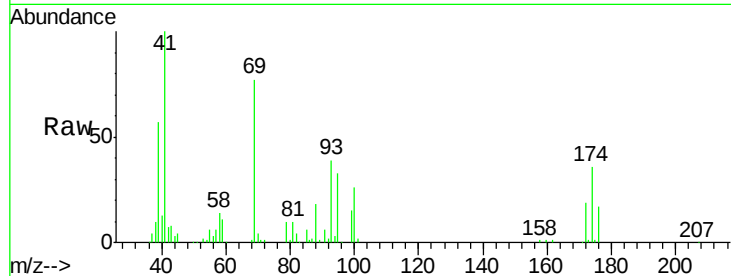
#49
1,4-Dioxane
Concen: 713.925 ug/l
RT: 9.18 min Scan# 2303
Delta R.T. 0.00 min
Lab File: VN061114.D
Acq: 20 Apr 2020 20:01

Instrument :
MSVOA_N
ClientSampleId :
PA-TWP-2MS

Tot Ion	Ratio	Lower	Upper
88	100		
43	40.6	30.9	46.3
58	78.2	59.8	89.8

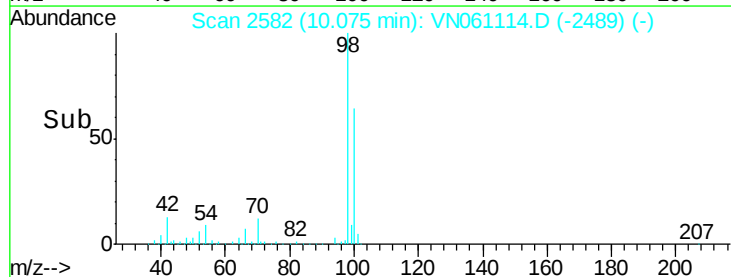
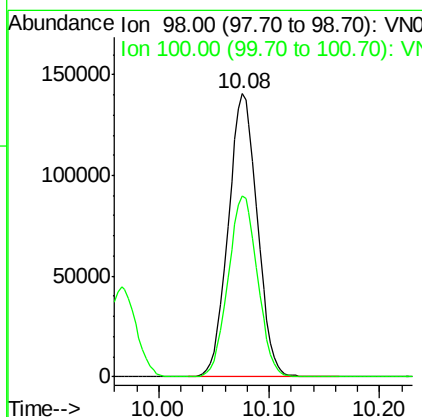
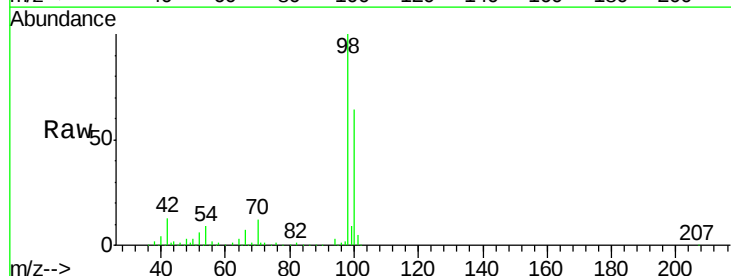
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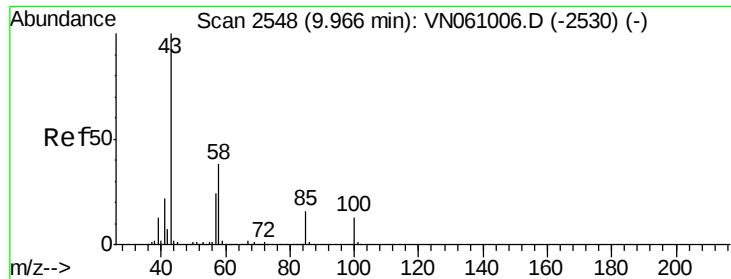
MMDadoda
4/21/2020 12:00:08 PM



#50
Toluene-d8
Concen: 46.150 ug/l
RT: 10.08 min Scan# 2582
Delta R.T. 0.00 min
Lab File: VN061114.D
Acq: 20 Apr 2020 20:01

Tgt Ion	Ratio	Lower	Upper
98	100		
100	64.4	51.9	77.9





#51

4-Methyl-2-Pentanone

Concen: 236.293 ug/l

RT: 9.97 min Scan# 2548

Delta R.T. 0.00 min

Lab File: VN061114.D

Acq: 20 Apr 2020 20:01

Instrument :

MSVOA_N

ClientSampled :

PA-TWP-2MS

Tot Ion: 43 Resp: 625934

Ion Ratio Lower Upper

43 100

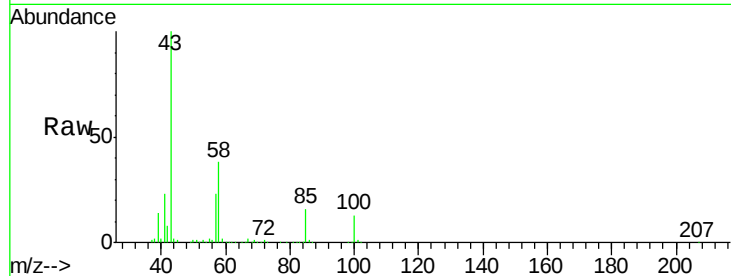
58 37.5 30.3 45.5

Manual Integrations

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MMDadoda

4/21/2020 12:00:08 PM



Abundance Ion 43.00 (42.70 to 43.70): VN061114.D (-2530) (-)

Ion 58.00 (57.70 to 58.70): VN061114.D (-2530) (-)

9.97

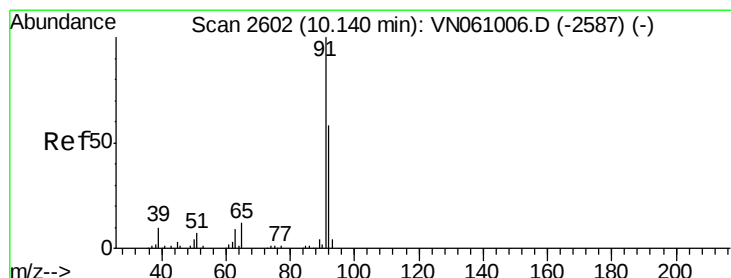
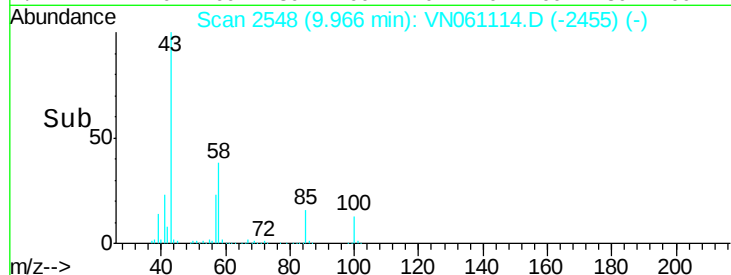
300000

200000

100000

0

Time-->



#52

Toluene

Concen: 47.212 ug/l

RT: 10.14 min Scan# 2602

Delta R.T. 0.00 min

Lab File: VN061114.D

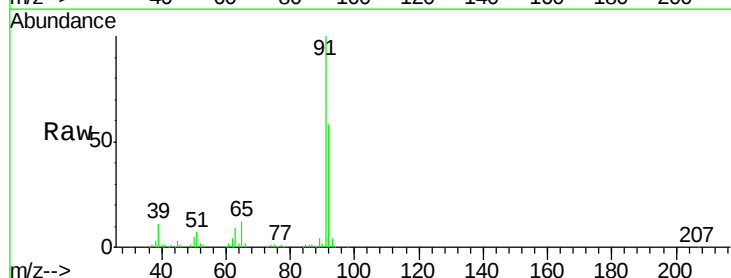
Acq: 20 Apr 2020 20:01

Tgt Ion: 92 Resp: 218638

Ion Ratio Lower Upper

92 100

91 174.0 137.7 206.5



Abundance Ion 92.00 (91.70 to 92.70): VN061114.D (-2587) (-)

Ion 91.00 (90.70 to 91.70): VN061114.D (-2587) (-)

10.14

200000

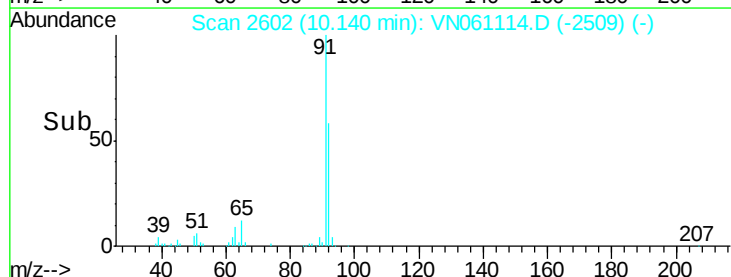
150000

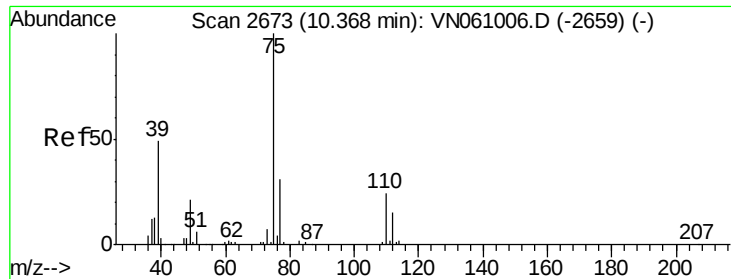
100000

50000

0

Time-->





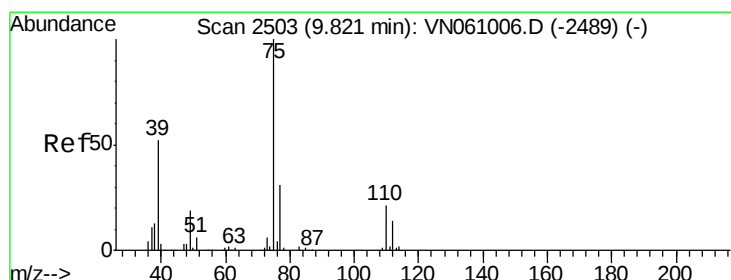
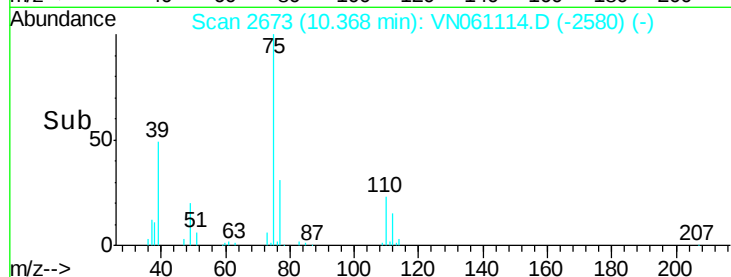
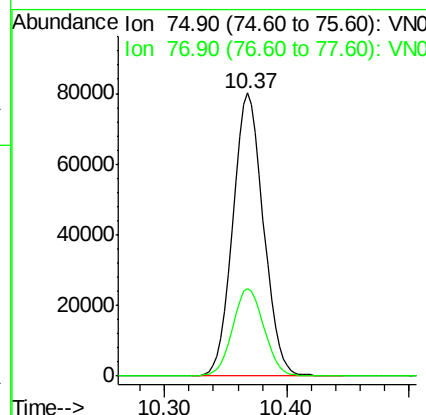
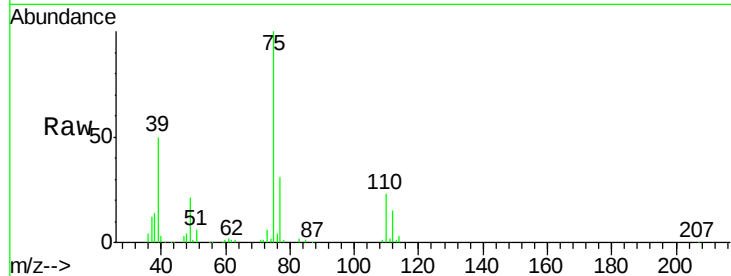
#53
t-1,3-Dichloropropene
Concen: 47.477 ug/l
RT: 10.37 min Scan# 2673
Delta R.T. 0.00 min
Lab File: VN061114.D
Acq: 20 Apr 2020 20:01

Instrument :
MSVOA_N
ClientSampleId :
PA-TWP-2MS

Tot Ion: 75 Resp: 140053
Ion Ratio Lower Upper
75 100
77 30.9 25.0 37.6

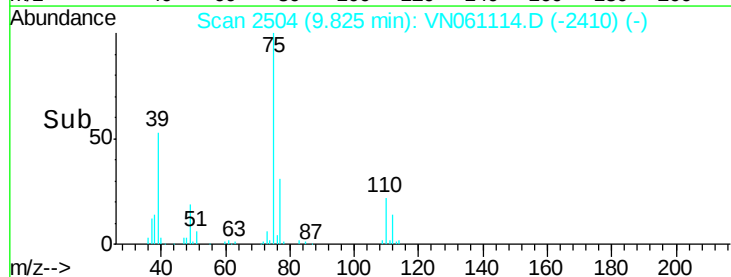
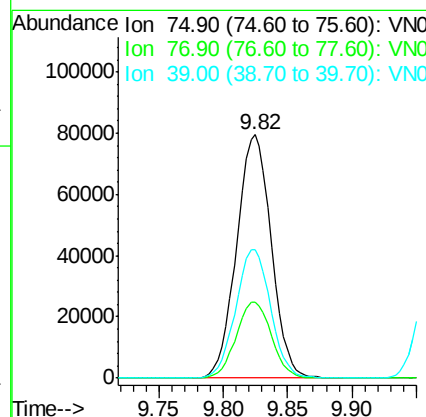
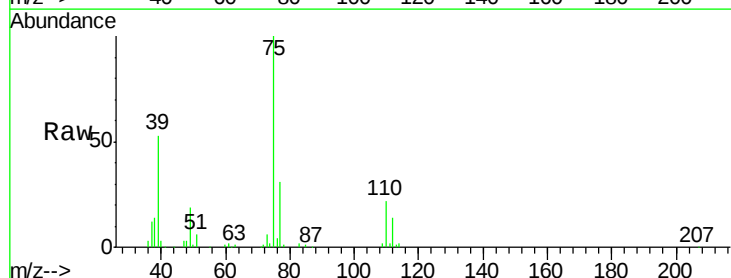
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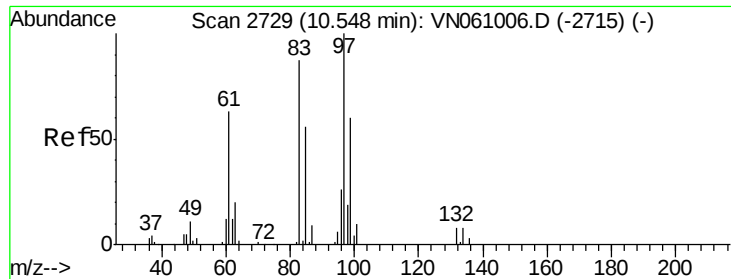
MMDadoda
4/21/2020 12:00:08 PM



#54
cis-1,3-Dichloropropene
Concen: 46.156 ug/l
RT: 9.82 min Scan# 2504
Delta R.T. 0.00 min
Lab File: VN061114.D
Acq: 20 Apr 2020 20:01

Tgt Ion: 75 Resp: 148560
Ion Ratio Lower Upper
75 100
77 31.2 25.0 37.6
39 52.9 41.4 62.2





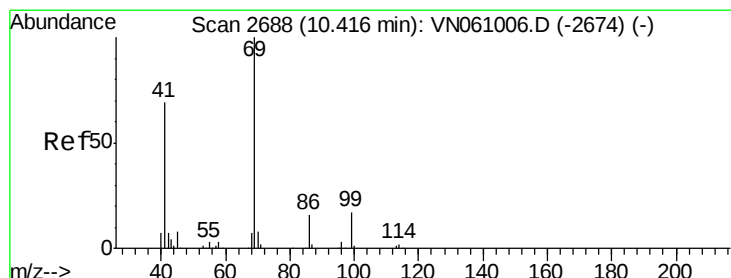
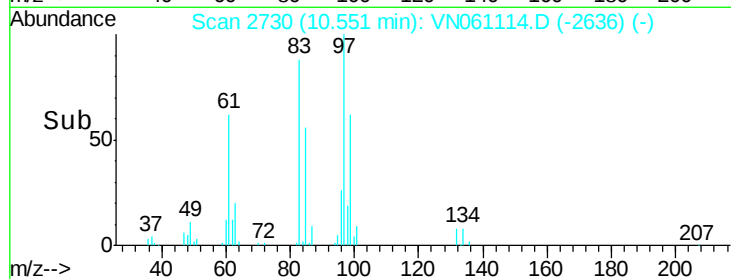
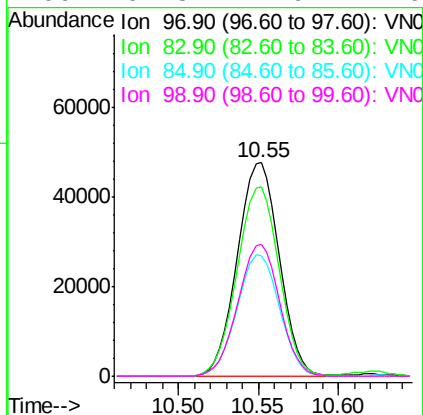
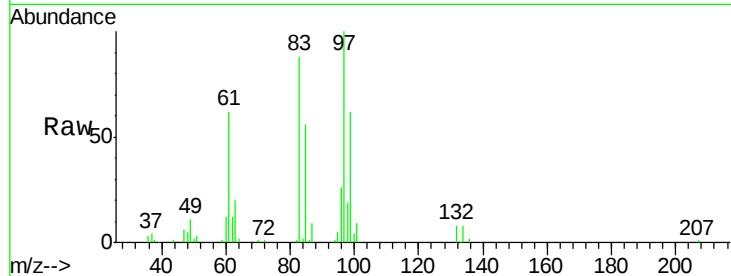
#55
 1,1,2-Trichloroethane
 Concen: 48.768 ug/l
 RT: 10.55 min Scan# 2730
 Delta R.T. 0.00 min
 Lab File: VN061114.D
 Acq: 20 Apr 2020 20:01

Instrument :
 MSVOA_N
 ClientSampleId :
 PA-TWP-2MS

Tot Ion:	97	Resp:	85466
Ion	Ratio	Lower	Upper
97	100		
83	88.4	69.5	104.3
85	56.5	45.0	67.4
99	61.8	47.9	71.9

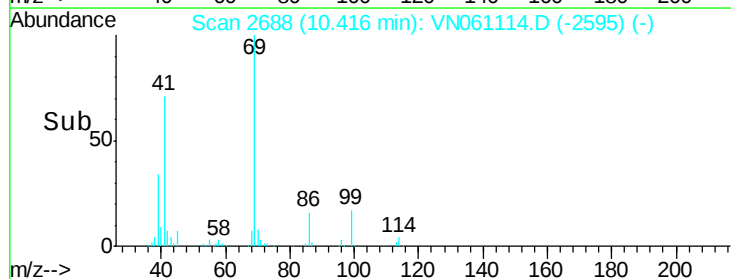
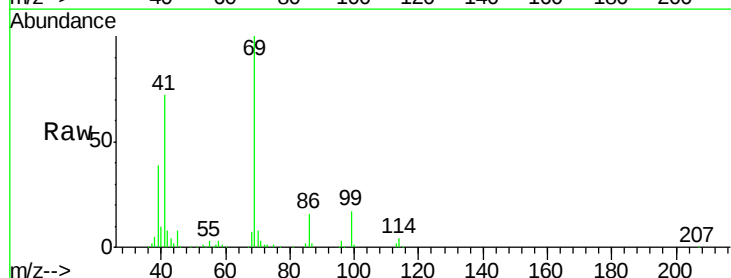
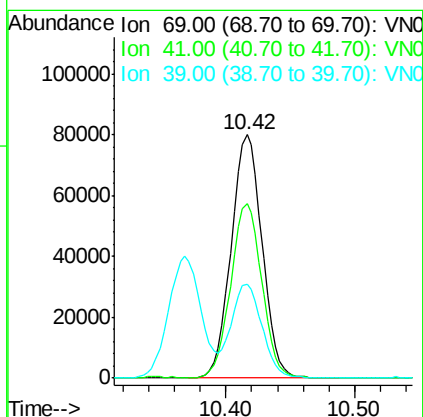
Manual Integrations
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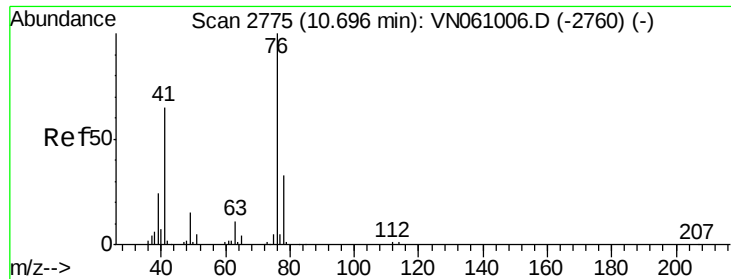
MMDadoda
 4/21/2020 12:00:08 PM



#56
 Ethyl methacrylate
 Concen: 48.332 ug/l
 RT: 10.42 min Scan# 2688
 Delta R.T. 0.00 min
 Lab File: VN061114.D
 Acq: 20 Apr 2020 20:01

Tgt Ion:	69	Resp:	133192
Ion	Ratio	Lower	Upper
69	100		
41	71.5	56.7	85.1
39	38.4	29.4	44.0





#57

1,3-Dichloropropane

Concen: 47.498 ug/l

RT: 10.70 min Scan# 2775

Delta R.T. 0.00 min

Lab File: VN061114.D

Acq: 20 Apr 2020 20:01

Instrument :

MSVOA_N

ClientSampled :

PA-TWP-2MS

Tot Ion: 76 Resp: 148476

Ion Ratio Lower Upper

76 100

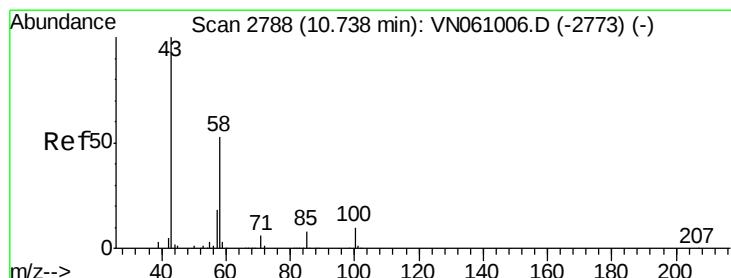
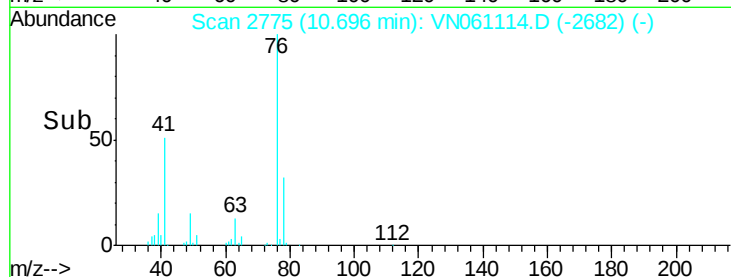
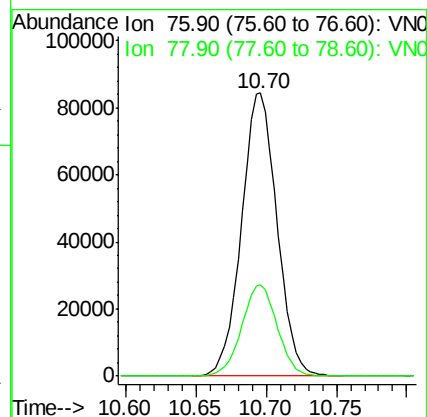
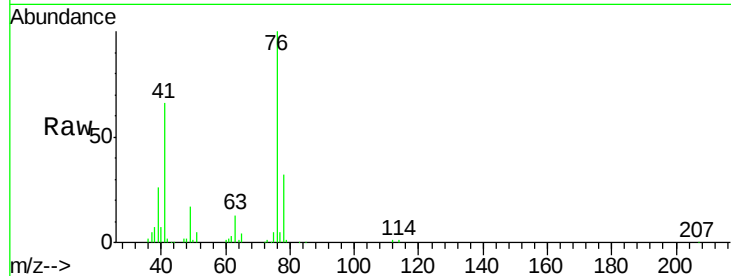
78 32.3 25.4 38.0

Manual Integrations

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4/21/2020 12:00:08 PM



#59

2-Hexanone

Concen: 234.643 ug/l

RT: 10.74 min Scan# 2788

Delta R.T. 0.00 min

Lab File: VN061114.D

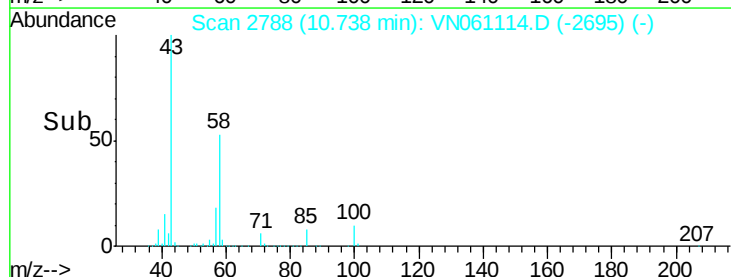
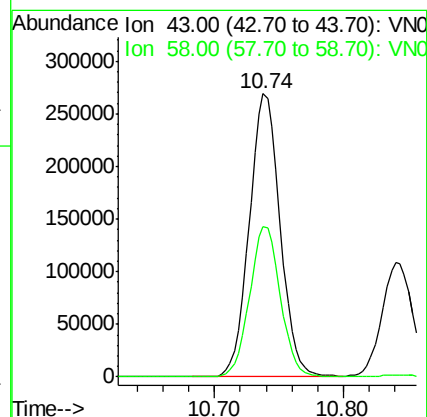
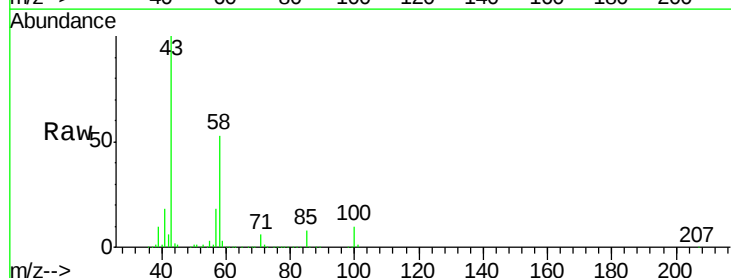
Acq: 20 Apr 2020 20:01

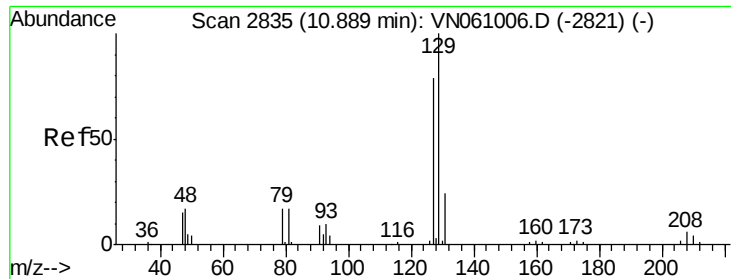
Tgt Ion: 43 Resp: 448257

Ion Ratio Lower Upper

43 100

58 53.0 26.4 79.0





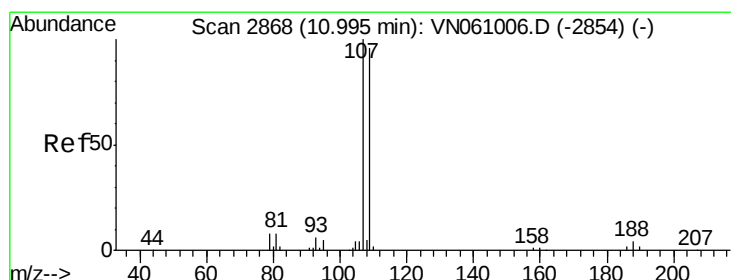
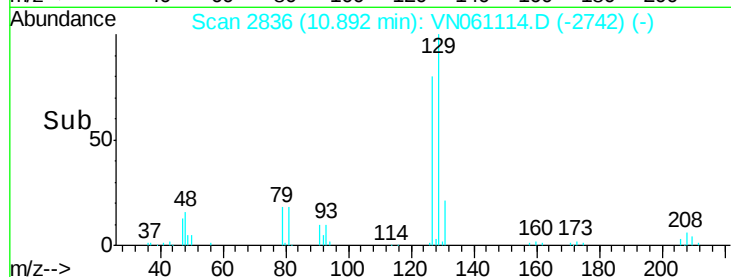
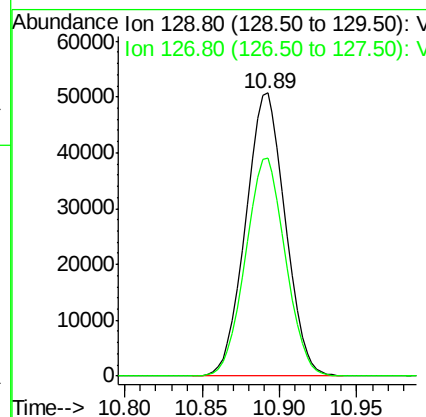
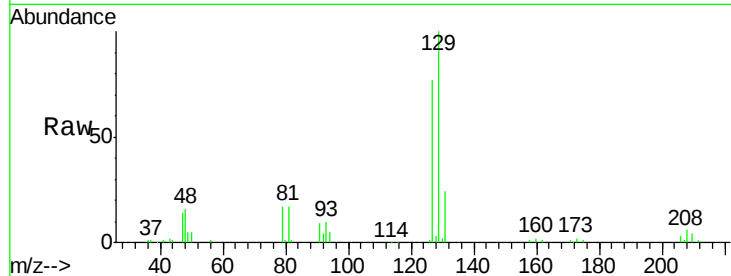
#60
Dibromochloromethane
Concen: 50.240 ug/l
RT: 10.89 min Scan# 2836
Delta R.T. 0.00 min
Lab File: VN061114.D
Acq: 20 Apr 2020 20:01

Instrument :
MSVOA_N
ClientSampleId :
PA-TWP-2MS

Tot Ion	Ion	Ratio	Resp	Lower	Upper
129	100		90446		
127	77.4	39.0	116.9		

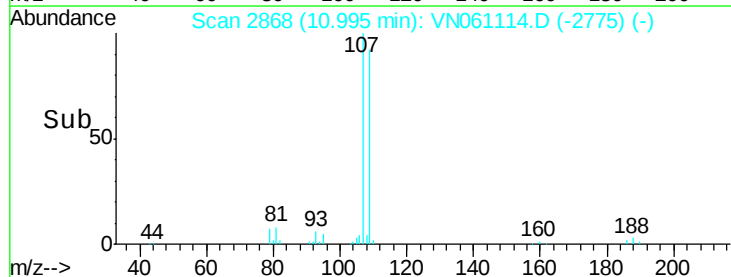
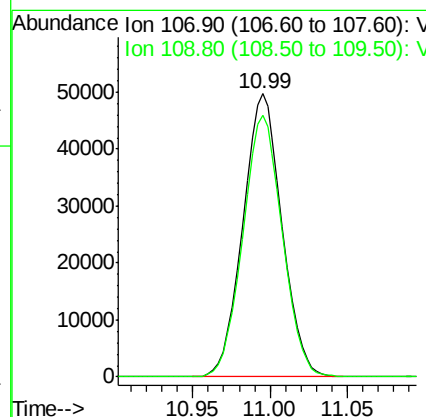
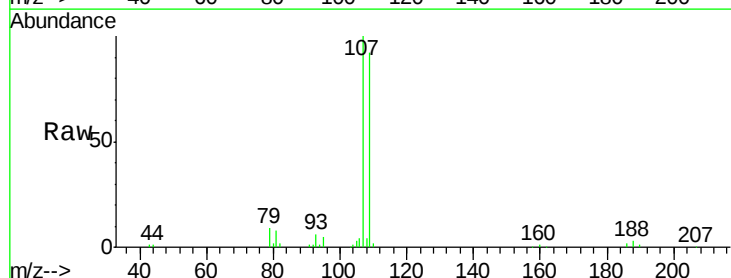
Manual Integrations
APPROVED

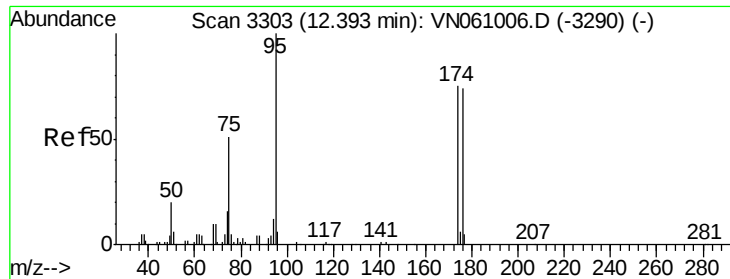
MMDadoda
4/21/2020 12:00:08 PM



#61
1,2-Dibromoethane
Concen: 48.700 ug/l
RT: 10.99 min Scan# 2868
Delta R.T. 0.00 min
Lab File: VN061114.D
Acq: 20 Apr 2020 20:01

Tgt Ion	Ion	Ratio	Resp	Lower	Upper
107	100		86968		
109	93.4	75.9	113.9		





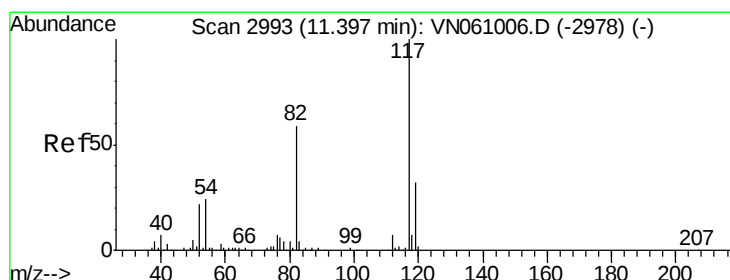
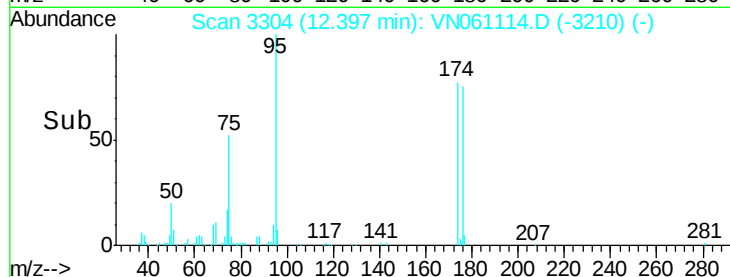
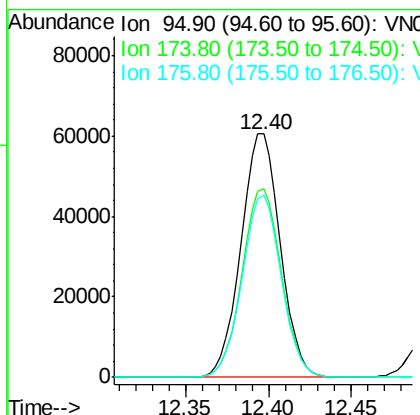
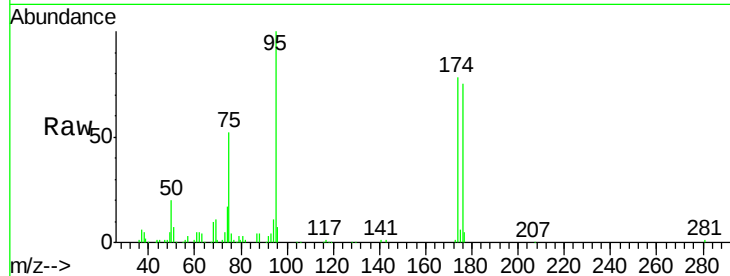
#62
4-Bromofluorobenzene
Concen: 45.674 ug/l
RT: 12.40 min Scan# 3304
Delta R.T. 0.00 min
Lab File: VN061114.D
Acq: 20 Apr 2020 20:01

Instrument :
MSVOA_N
ClientSampleId :
PA-TWP-2MS

Tot Ion	Ratio	Lower	Upper
95	100		
174	77.5	0.0	151.2
176	74.5	0.0	148.2

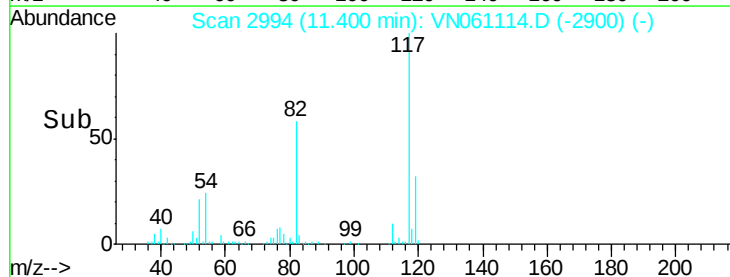
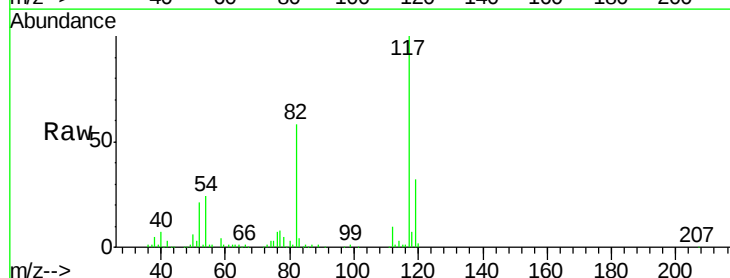
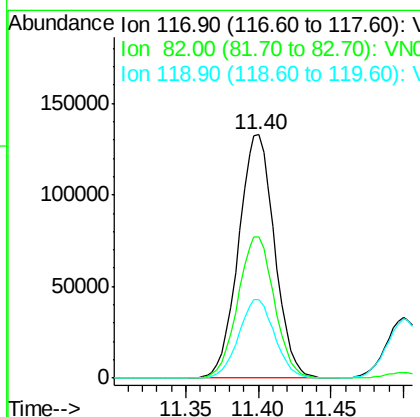
Manual Integrations
APPROVED

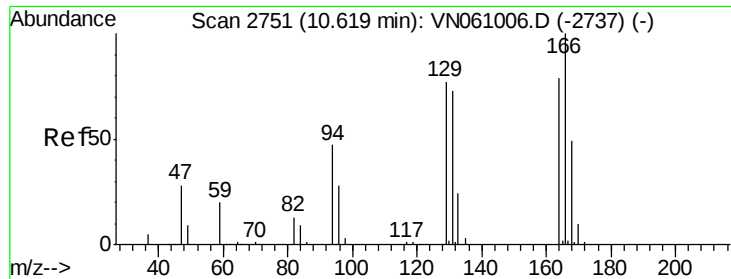
MMDadoda
4/21/2020 12:00:08 PM



#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.40 min Scan# 2994
Delta R.T. 0.00 min
Lab File: VN061114.D
Acq: 20 Apr 2020 20:01

Tgt Ion	Ratio	Lower	Upper
117	100		
82	57.8	47.1	70.7
119	32.5	25.7	38.5





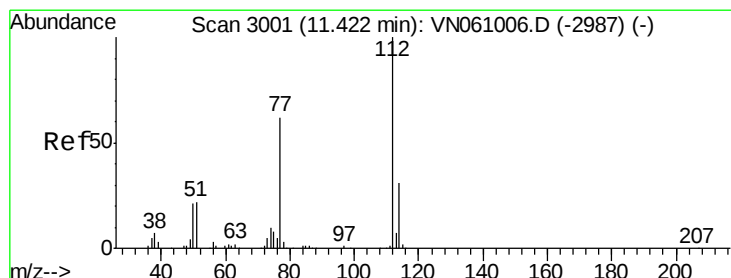
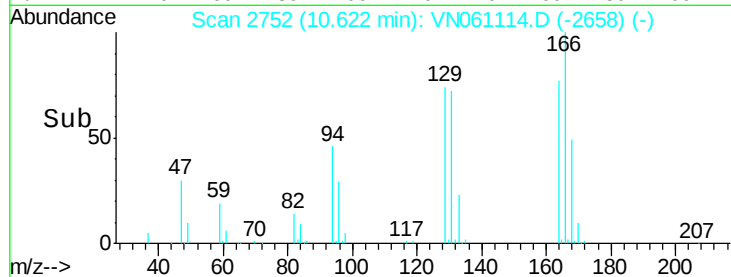
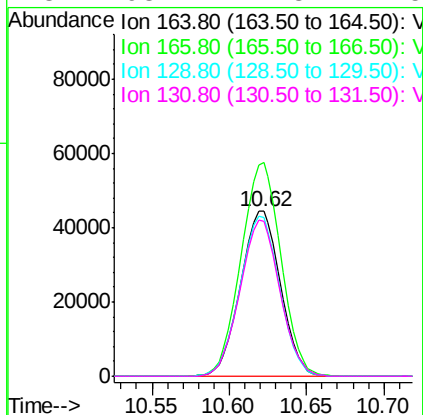
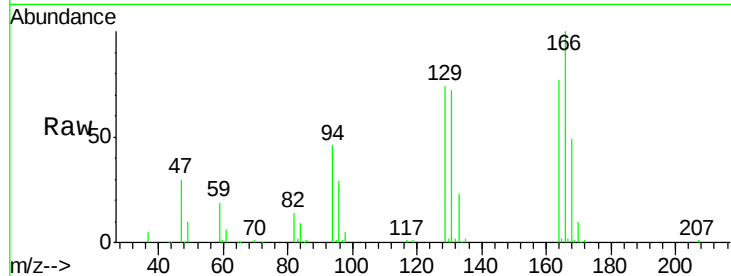
#64
Tetrachloroethene
Concen: 45.593 ug/l
RT: 10.62 min Scan# 2752
Delta R.T. 0.00 min
Lab File: VN061114.D
Acq: 20 Apr 2020 20:01

Instrument :
MSVOA_N
ClientSampleId :
PA-TWP-2MS

Tot Ion	Ratio	Lower	Upper
164	100		
166	129.6	101.6	152.4
129	96.1	78.5	117.7
131	93.7	74.3	111.5

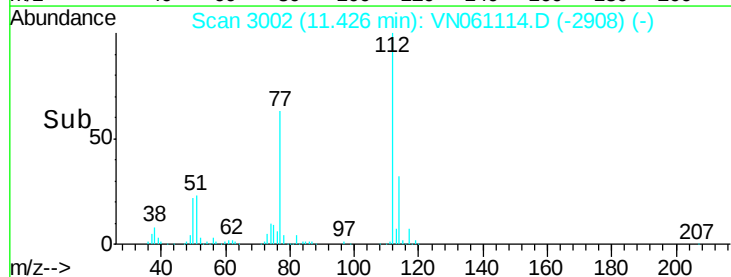
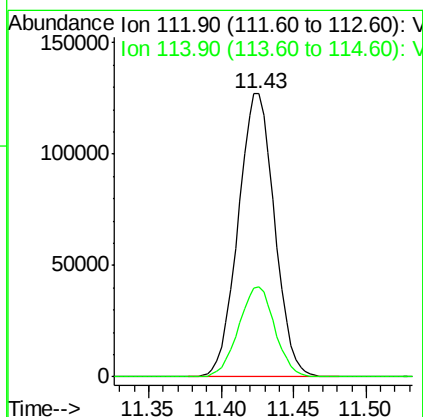
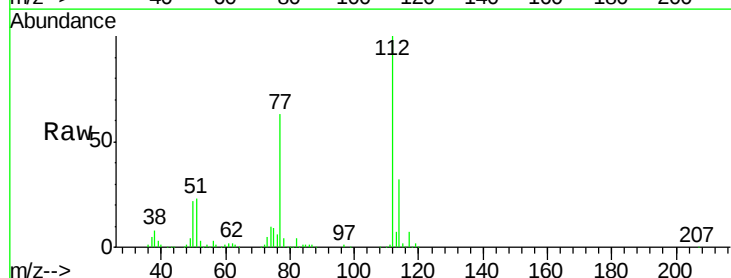
Manual Integrations
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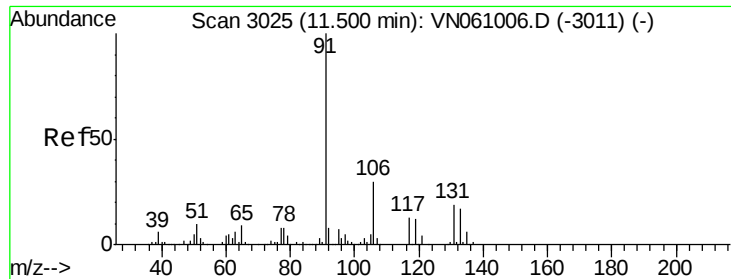
MMDadoda
4/21/2020 12:00:08 PM



#65
Chlorobenzene
Concen: 46.832 ug/l
RT: 11.43 min Scan# 3002
Delta R.T. 0.00 min
Lab File: VN061114.D
Acq: 20 Apr 2020 20:01

Tgt Ion	Ratio	Lower	Upper
112	100		
114	32.0	25.1	37.7





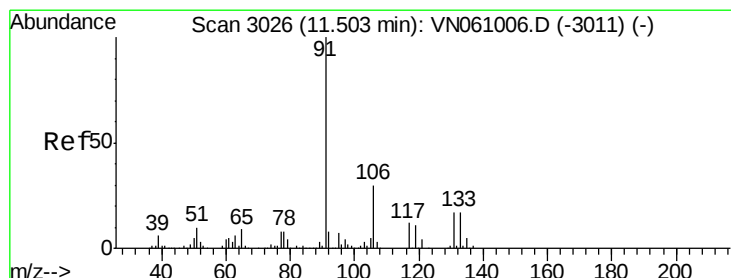
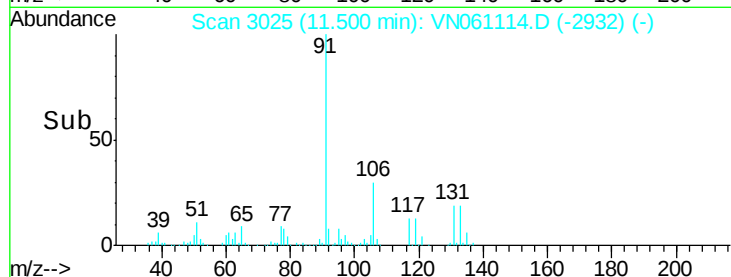
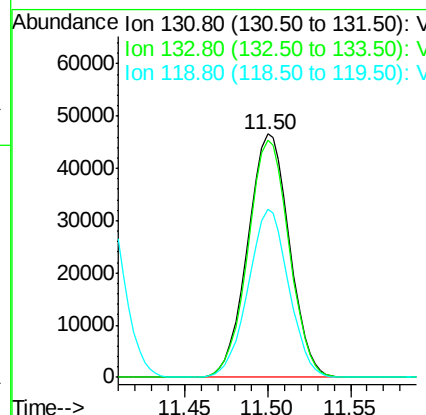
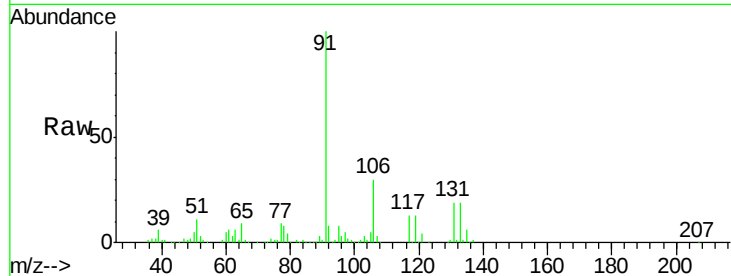
#66
 1,1,1,2-Tetrachloroethane
 Concen: 48.177 ug/l
 RT: 11.50 min Scan# 3025
 Delta R.T. 0.00 min
 Lab File: VN061114.D
 Acq: 20 Apr 2020 20:01

Instrument :
 MSVOA_N
 ClientSampleId :
 PA-TWP-2MS

Tot Ion	Ratio	Lower	Upper
131	100		
133	95.9	47.9	143.8
119	66.7	33.3	99.8

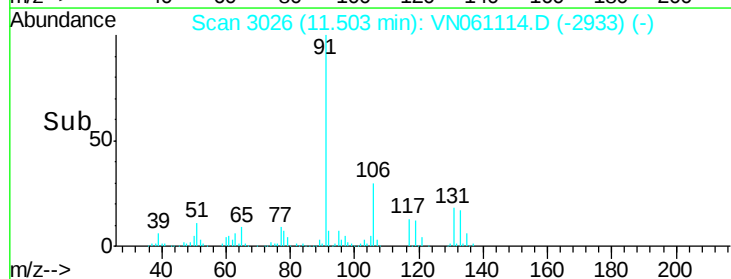
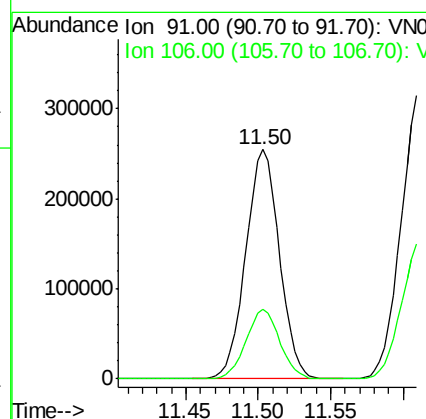
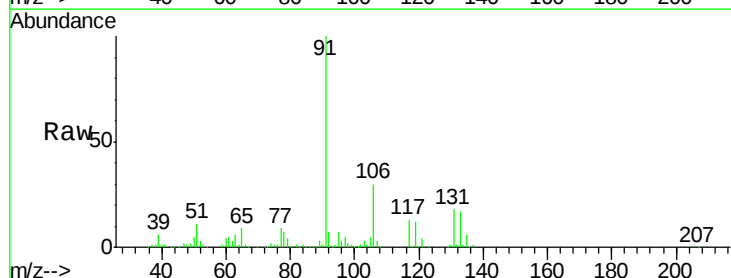
Manual Integrations
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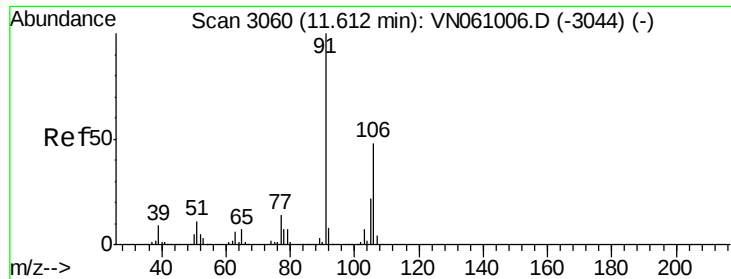
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 4/21/2020 12:00:08 PM



#67
 Ethyl Benzene
 Concen: 46.262 ug/l
 RT: 11.50 min Scan# 3026
 Delta R.T. 0.00 min
 Lab File: VN061114.D
 Acq: 20 Apr 2020 20:01

Tgt Ion	Ratio	Lower	Upper
91	100		
106	30.2	23.8	35.8





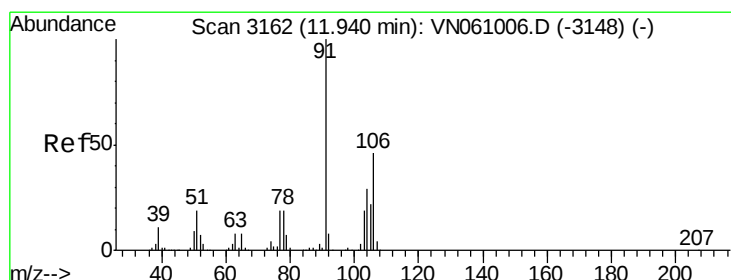
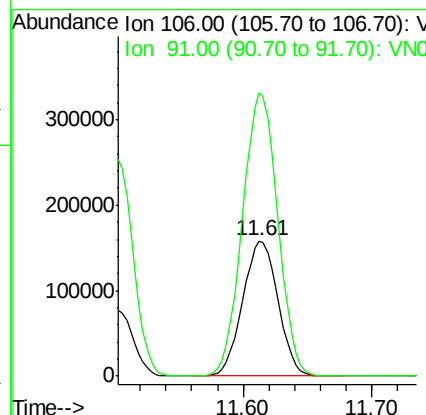
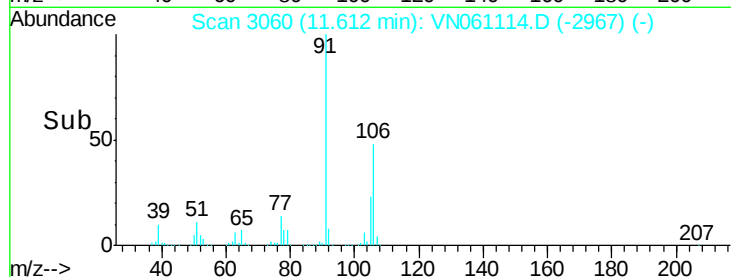
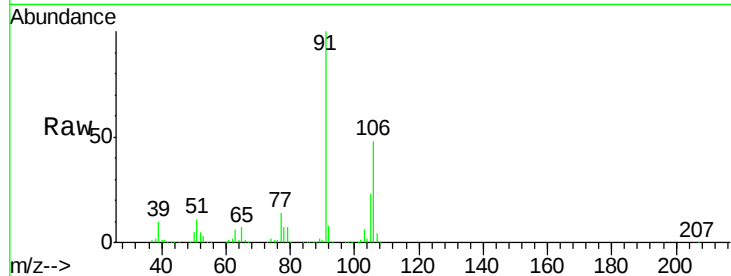
#68
m/p-Xylenes
Concen: 93.678 ug/l
RT: 11.61 min Scan# 3060
Delta R.T. 0.00 min
Lab File: VN061114.D
Acq: 20 Apr 2020 20:01

Instrument :
MSVOA_N
ClientSampleId :
PA-TWP-2MS

Tot Ion	Ion	Ratio	Resp	Lower	Upper
106	100				
91	209.5	167.9	251.9		

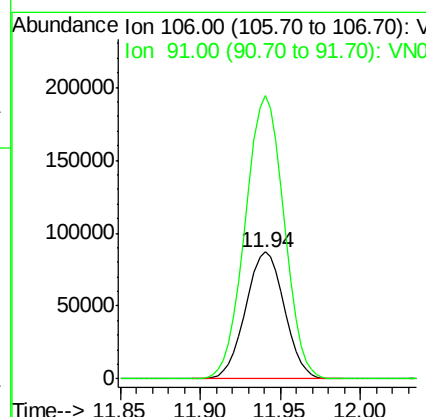
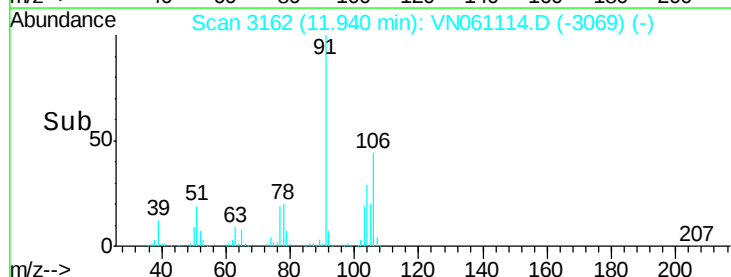
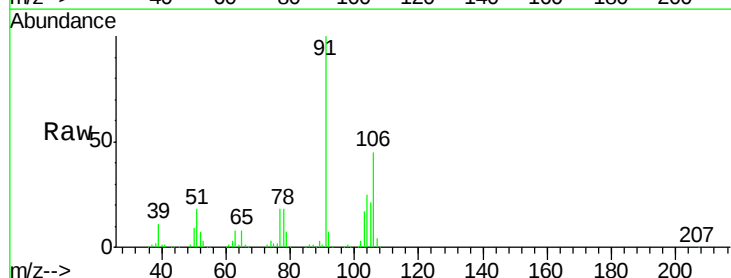
Manual Integrations
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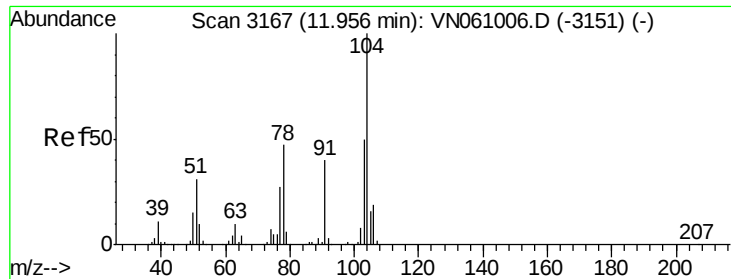
MMDadoda
4/21/2020 12:00:08 PM



#69
o-Xylene
Concen: 46.558 ug/l
RT: 11.94 min Scan# 3162
Delta R.T. 0.00 min
Lab File: VN061114.D
Acq: 20 Apr 2020 20:01

Tgt Ion	Ion	Ratio	Resp	Lower	Upper
106	100				
91	223.1	110.7	332.1		





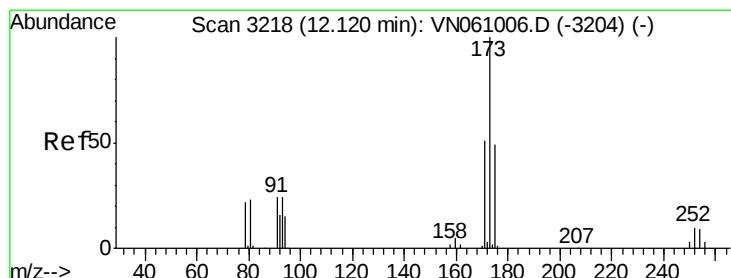
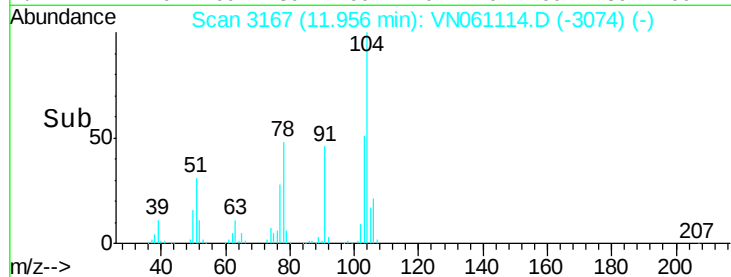
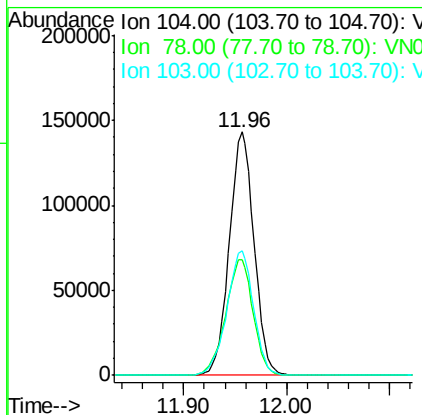
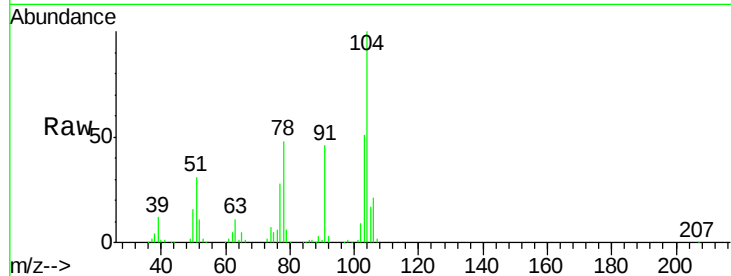
#70
Stvrene
Concen: 48.039 ug/l
RT: 11.96 min Scan# 3167
Delta R.T. 0.00 min
Lab File: VN061114.D
Acq: 20 Apr 2020 20:01

Instrument :
MSVOA_N
ClientSampleId :
PA-TWP-2MS

Tot Ion	Ratio	Resp	Lower	Upper
104	100	239258		
78	52.7		42.2	63.4
103	55.3		44.4	66.6

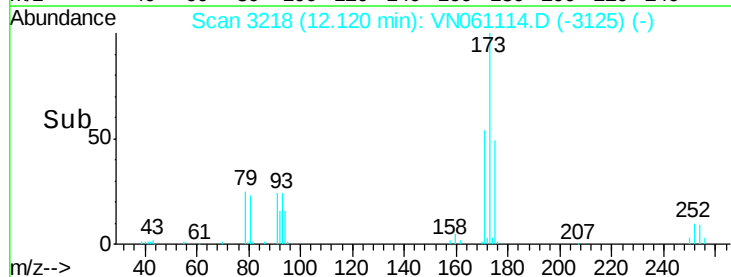
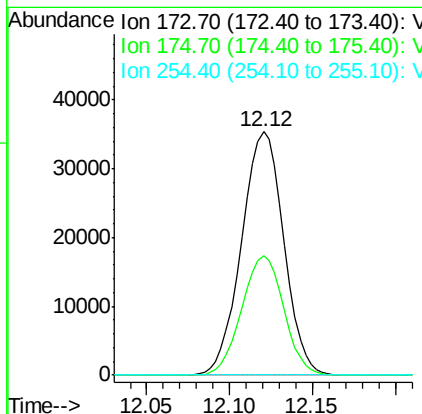
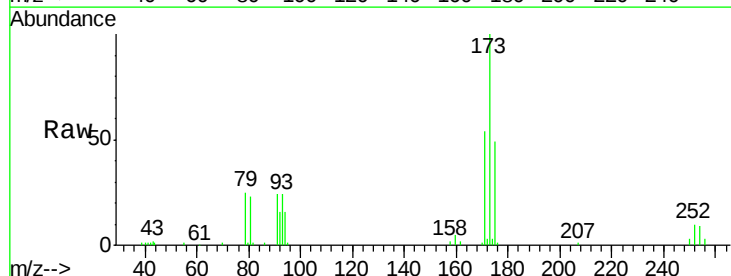
Manual Integrations
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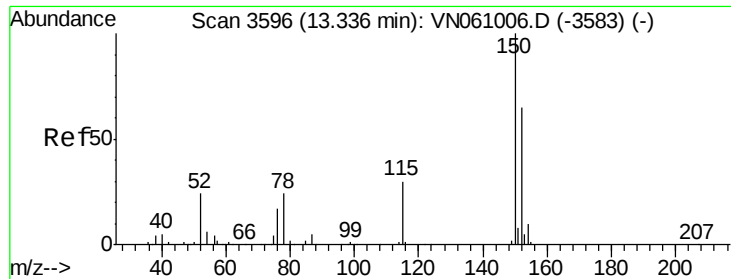
MMDadoda
4/21/2020 12:00:08 PM



#71
Bromoform
Concen: 49.653 ug/l
RT: 12.12 min Scan# 3218
Delta R.T. 0.00 min
Lab File: VN061114.D
Acq: 20 Apr 2020 20:01

Tgt Ion	Ratio	Resp	Lower	Upper
173	100	62761		
175	48.6		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: VN061114.D

Acq: 20 Apr 2020 20:01

Instrument :

MSVOA_N

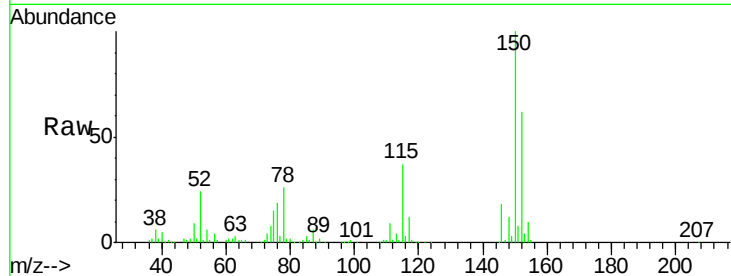
ClientSampleId :

PA-TWP-2MS

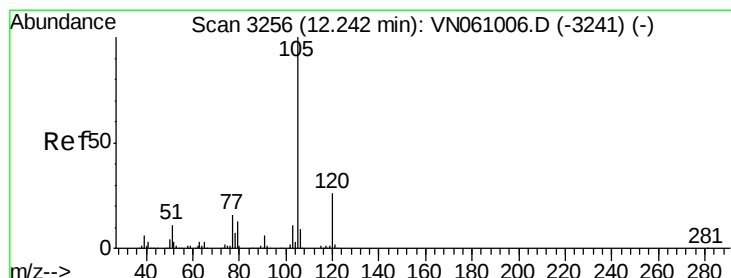
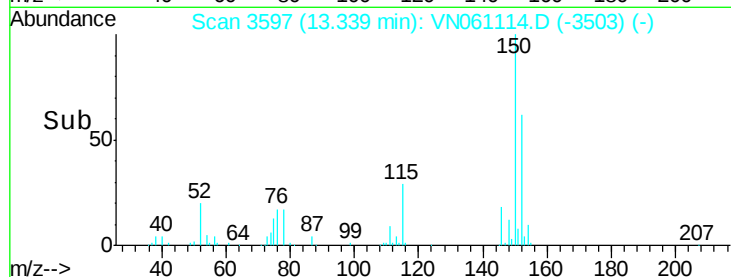
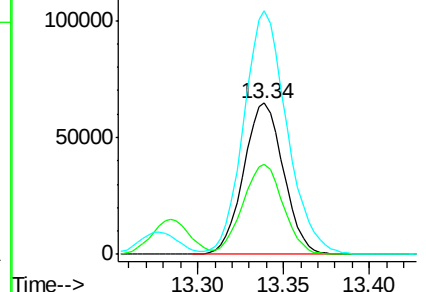
Tot Ion:	152	Resp:	103950
Ion Ratio	Lower	Upper	
152	100		
115	60.5	30.8	92.4
150	173.8	0.0	349.0

Manual Integrations
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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: 45.618 ug/l

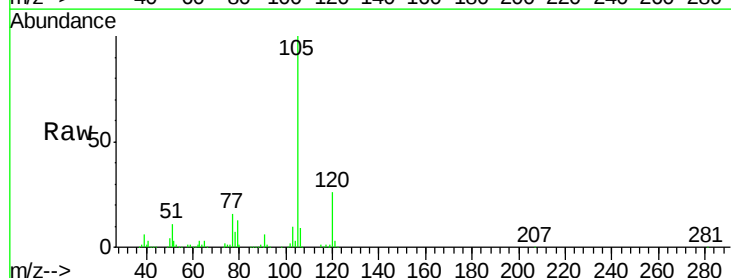
RT: 12.24 min Scan# 3256

Delta R.T. 0.00 min

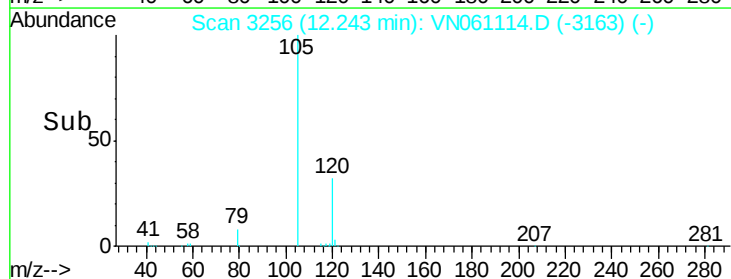
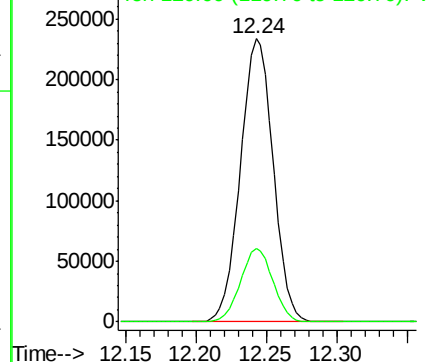
Lab File: VN061114.D

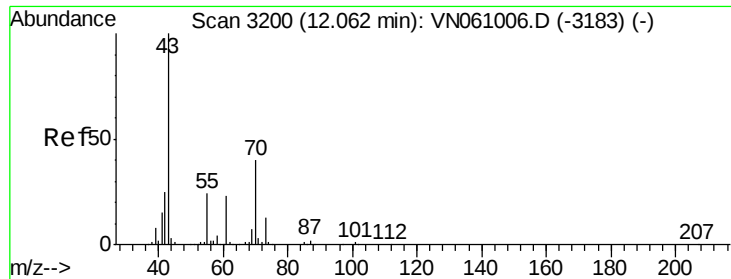
Acq: 20 Apr 2020 20:01

Tgt Ion:	105	Resp:	379904
Ion Ratio	Lower	Upper	
105	100		
120	25.7	13.0	38.9



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





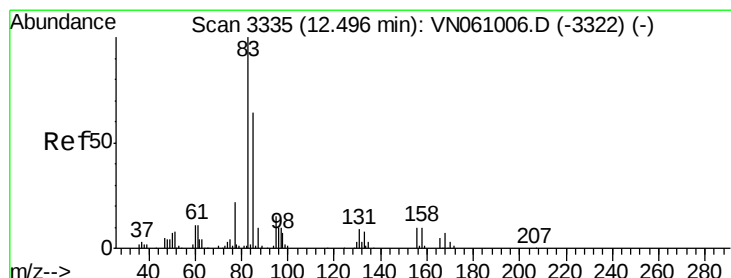
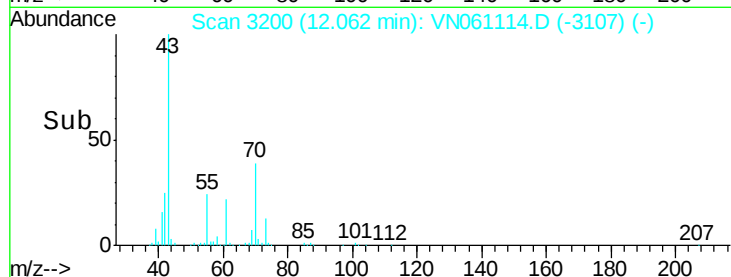
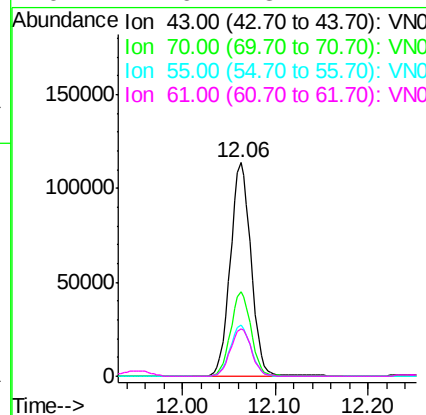
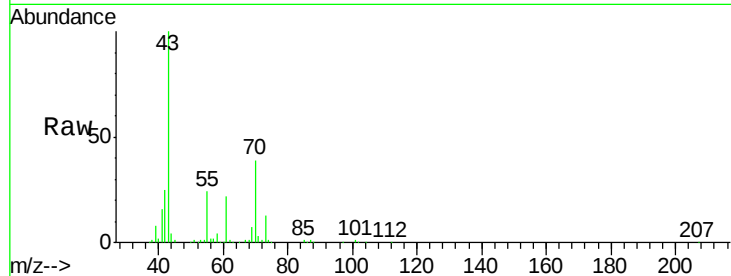
#74
N-amyl acetate
Concen: 45.505 ug/l
RT: 12.06 min Scan# 3200
Delta R.T. 0.00 min
Lab File: VN061114.D
Acq: 20 Apr 2020 20:01

Instrument :
MSVOA_N
ClientSampleId :
PA-TWP-2MS

Tot Ion	Ion	Ratio	Resp	Lower	Upper
43	100				
70	38.7	31.0	46.6		
55	23.9	18.6	27.8		
61	22.6	18.2	27.4		

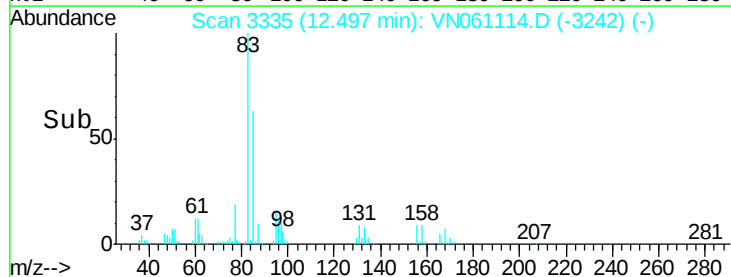
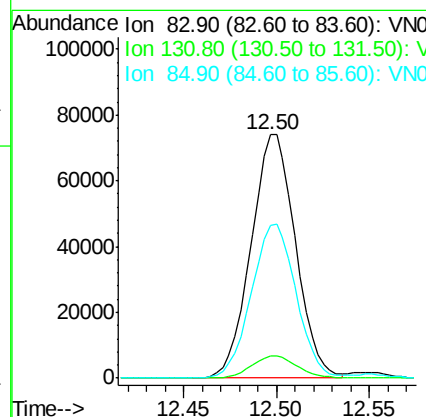
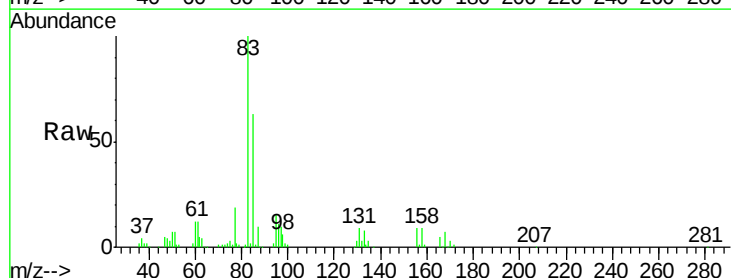
Manual Integrations
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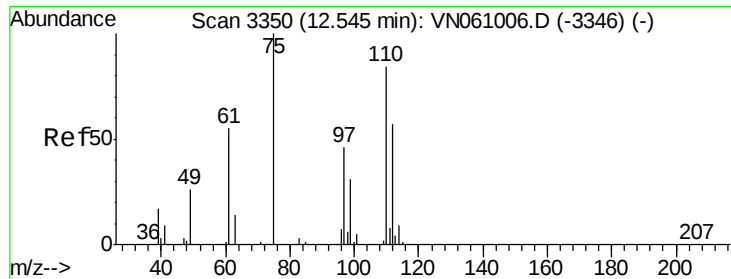
MMDadoda
4/21/2020 12:00:08 PM



#75
1,1,2,2-Tetrachloroethane
Concen: 48.442 ug/l
RT: 12.50 min Scan# 3335
Delta R.T. 0.00 min
Lab File: VN061114.D
Acq: 20 Apr 2020 20:01

Tgt Ion	Ion	Ratio	Resp	Lower	Upper
83	100				
131	9.3	4.8	14.3		
85	63.5	32.3	96.8		





#76

1,2,3-Trichloropropane

Concen: 47.231 ug/l m

RT: 12.55 min Scan# 3351

Delta R.T. 0.00 min

Lab File: VN061114.D

Acq: 20 Apr 2020 20:01

Instrument :

MSVOA_N

ClientSampleId :

PA-TWP-2MS

Tot Ion: 75 Resp: 107993

Ion Ratio Lower Upper

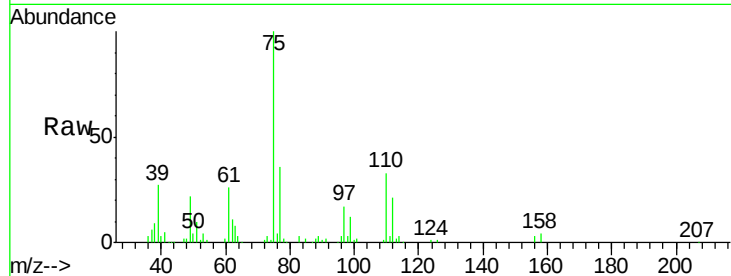
75 100

77 0.0 0.0 0.0

Manual Integrations
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Abundance Ion 74.90 (74.60 to 75.60): VN061114.D (-3257) (-)

Ion 77.00 (76.70 to 77.70): VN061114.D (-3257) (-)

120000

100000

80000

60000

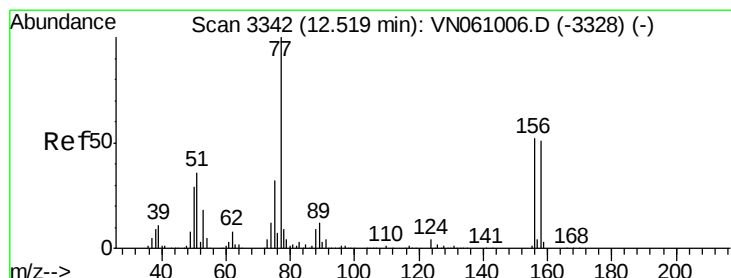
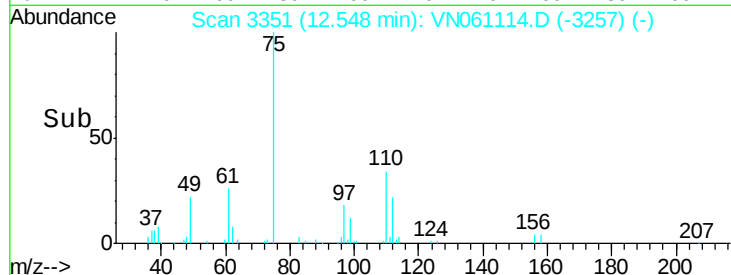
40000

20000

0

12.55

Time-->



#77

Bromobenzene

Concen: 47.592 ug/l

RT: 12.52 min Scan# 3342

Delta R.T. 0.00 min

Lab File: VN061114.D

Acq: 20 Apr 2020 20:01

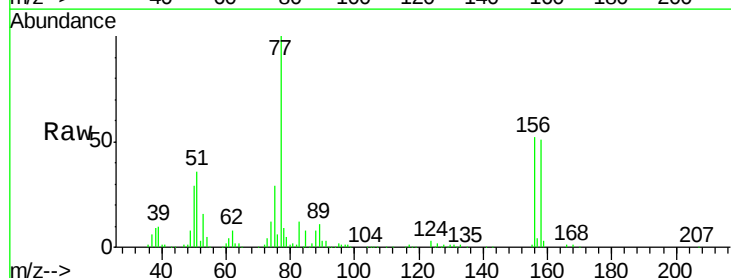
Tgt Ion: 156 Resp: 92540

Ion Ratio Lower Upper

156 100

77 227.3 115.6 346.8

158 97.1 48.9 146.6



Abundance Ion 155.80 (155.50 to 156.50): VN061114.D (-3249) (-)

Ion 77.00 (76.70 to 77.70): VN061114.D (-3249) (-)

Ion 157.80 (157.50 to 158.50): VN061114.D (-3249) (-)

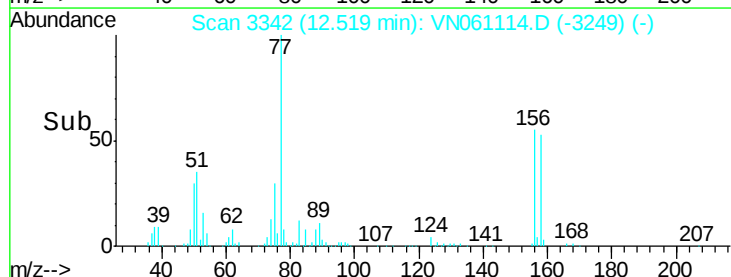
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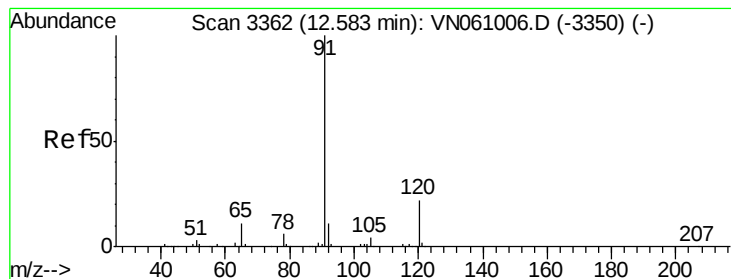
50000

0

12.52

Time-->





#78

n-propylbenzene

Concen: 45.594 ug/l

RT: 12.59 min Scan# 3363

Delta R.T. 0.00 min

Lab File: VN061114.D

Acq: 20 Apr 2020 20:01

Instrument :

MSVOA_N

ClientSampleId :

PA-TWP-2MS

Tot Ion: 91 Resp: 444248

Ion Ratio Lower Upper

91 100

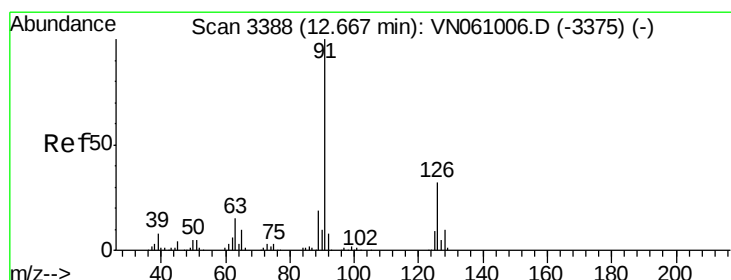
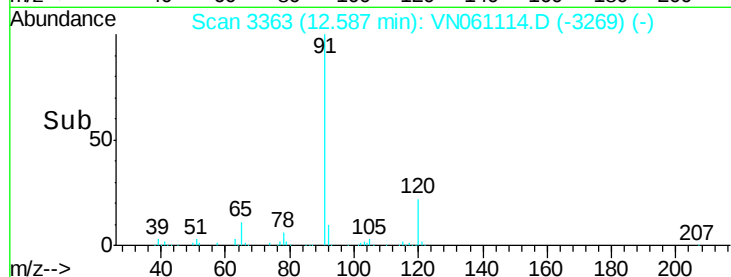
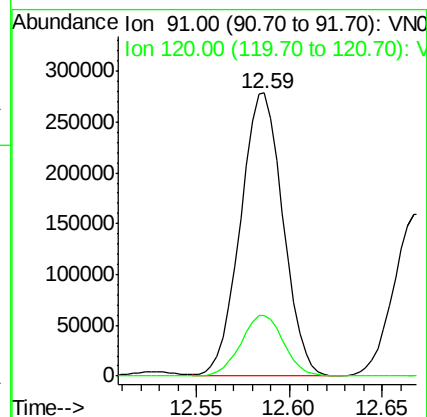
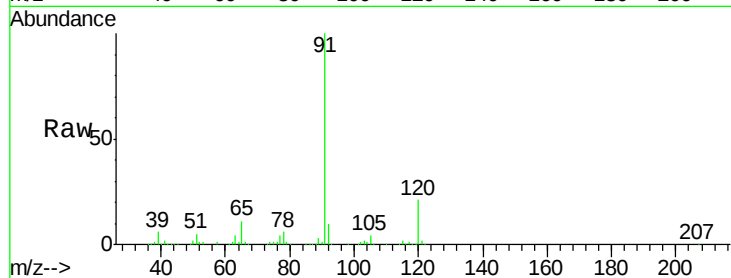
120 21.6 10.9 32.7

Manual Integrations

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4/21/2020 12:00:08 PM



#79

2-Chlorotoluene

Concen: 46.113 ug/l

RT: 12.67 min Scan# 3388

Delta R.T. 0.00 min

Lab File: VN061114.D

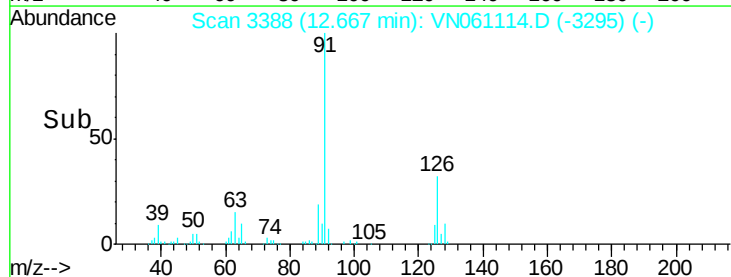
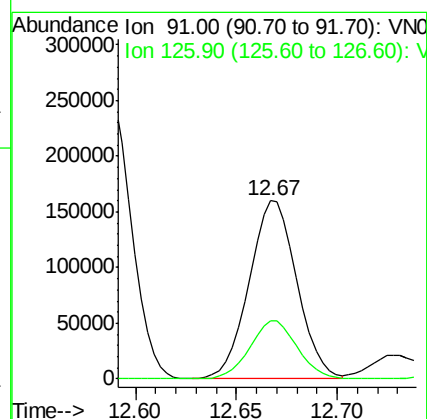
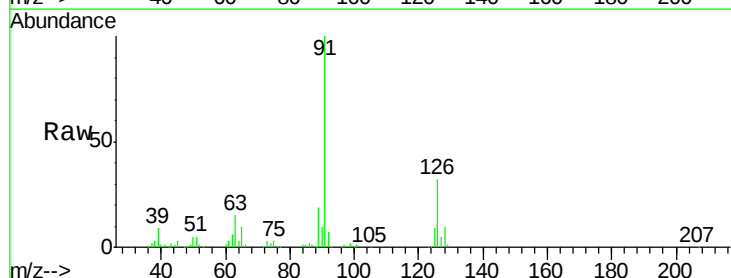
Acq: 20 Apr 2020 20:01

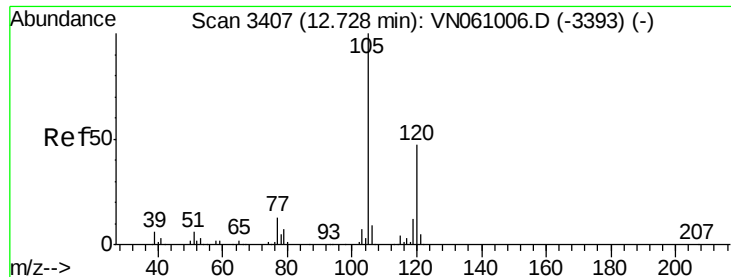
Tgt Ion: 91 Resp: 263514

Ion Ratio Lower Upper

91 100

126 32.5 16.1 48.2





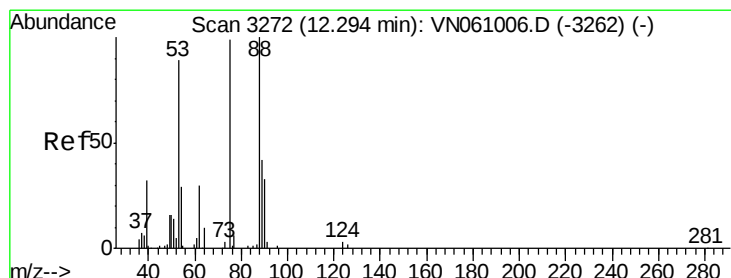
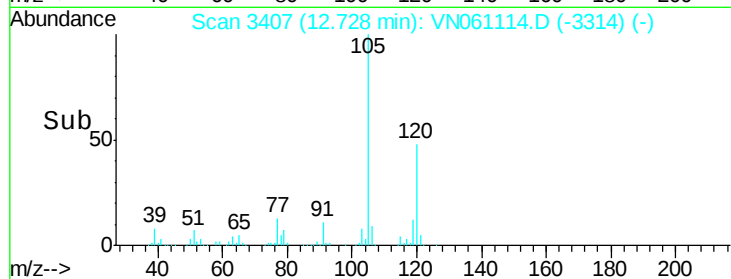
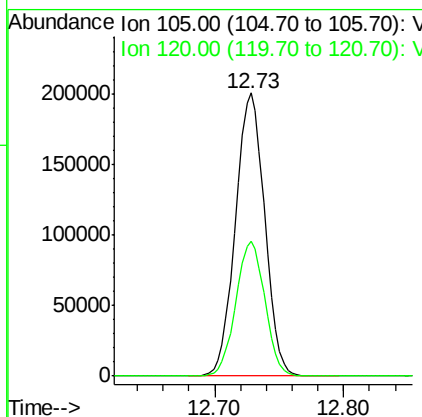
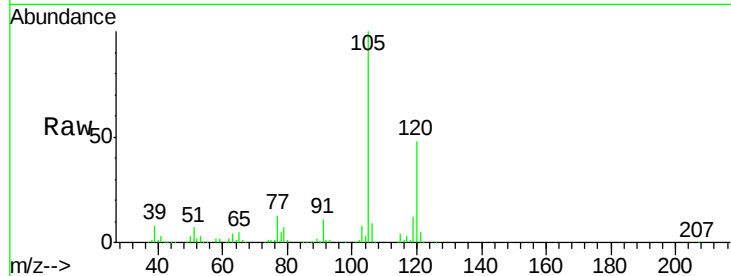
#80
 1,3,5-Trimethylbenzene
 Concen: 45.901 ug/l
 RT: 12.73 min Scan# 3407
 Delta R.T. 0.00 min
 Lab File: VN061114.D
 Acq: 20 Apr 2020 20:01

Instrument :
 MSVOA_N
 ClientSampled :
 PA-TWP-2MS

Tot Ion	Ratio	Lower	Upper
105	100		
120	47.3	23.6	70.8

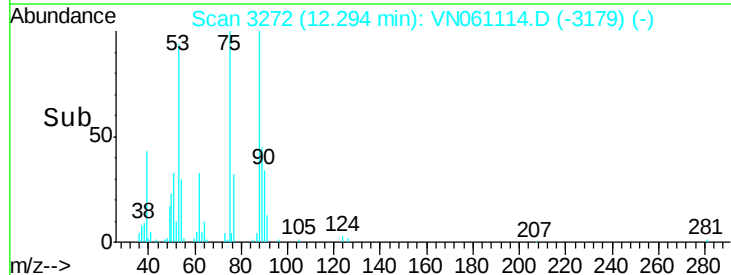
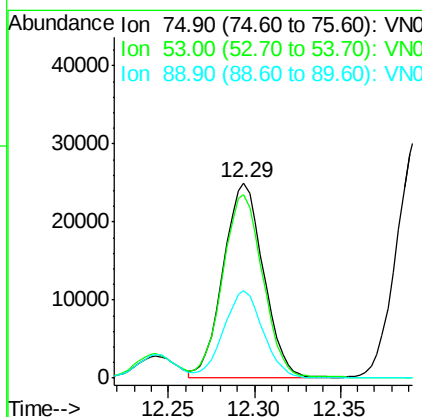
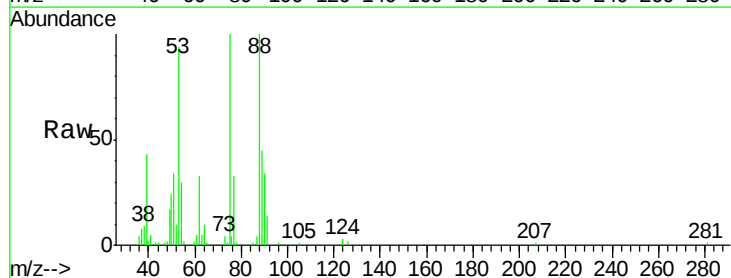
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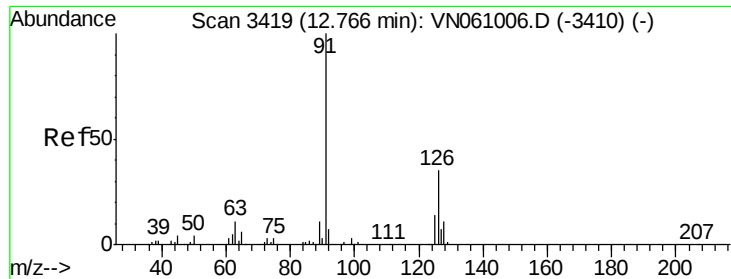
MMDadoda
 4/21/2020 12:00:08 PM



#81
 trans-1,4-Dichloro-2-butene
 Concen: 44.088 ug/l
 RT: 12.29 min Scan# 3272
 Delta R.T. 0.00 min
 Lab File: VN061114.D
 Acq: 20 Apr 2020 20:01

Tgt Ion	Ratio	Lower	Upper
75	100		
53	94.3	74.7	112.1
89	43.5	34.6	52.0





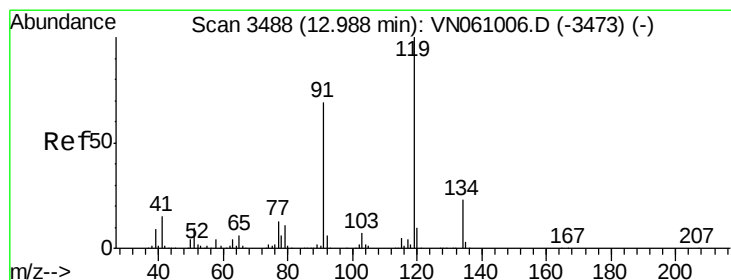
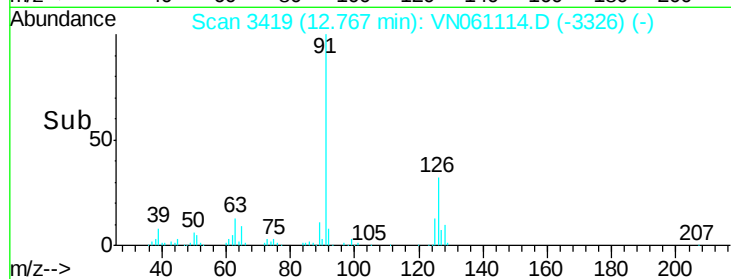
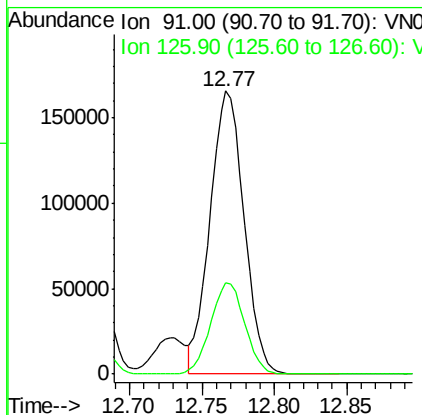
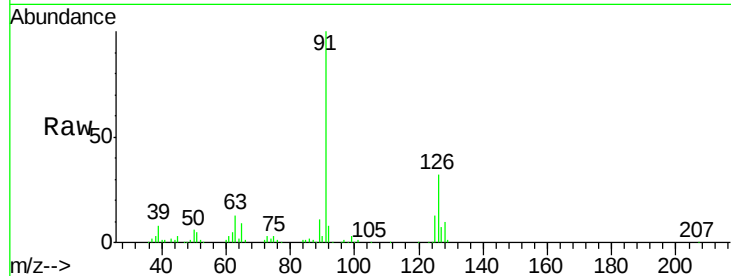
#82
4-Chlorotoluene
Concen: 45.327 ug/l
RT: 12.77 min Scan# 3419
Delta R.T. 0.00 min
Lab File: VN061114.D
Acq: 20 Apr 2020 20:01

Instrument :
MSVOA_N
ClientSampleId :
PA-TWP-2MS

Tot Ion	Ratio	Lower	Upper
91	100		
126	32.5	15.9	47.6

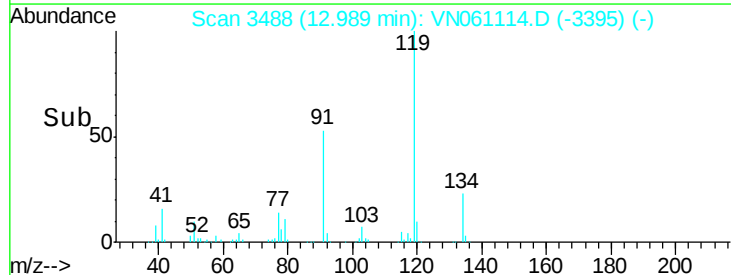
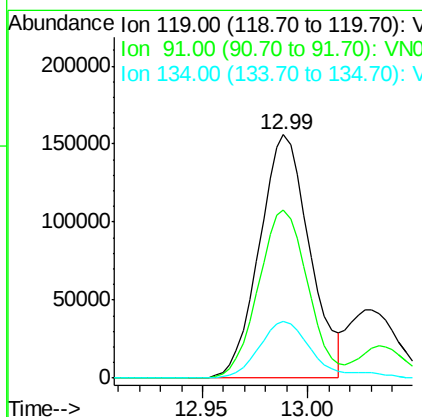
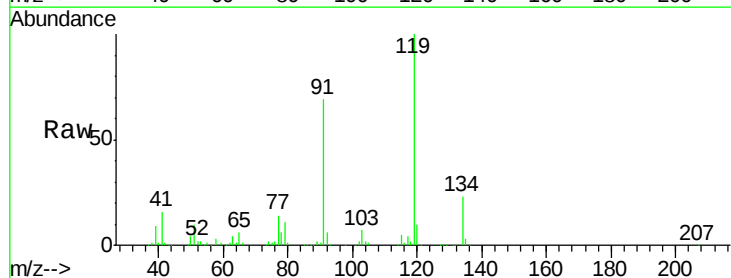
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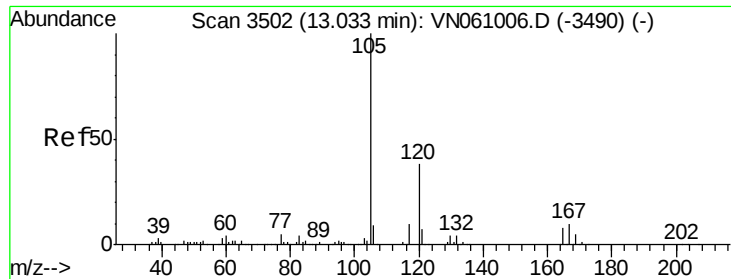
MMDadoda
4/21/2020 12:00:08 PM



#83
tert-Butylbenzene
Concen: 44.601 ug/l
RT: 12.99 min Scan# 3488
Delta R.T. 0.00 min
Lab File: VN061114.D
Acq: 20 Apr 2020 20:01

Tgt Ion	Ratio	Lower	Upper
119	100		
91	68.4	34.1	102.3
134	25.1	12.4	37.2





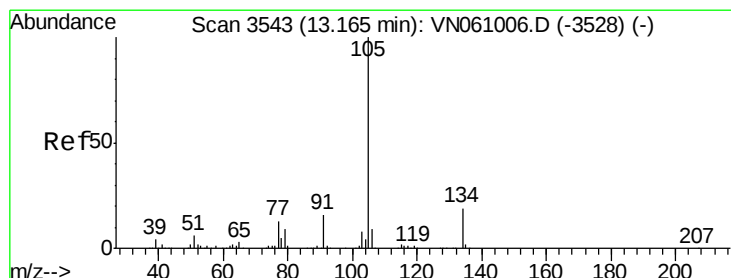
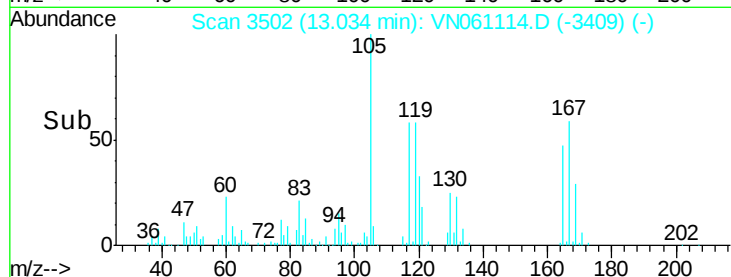
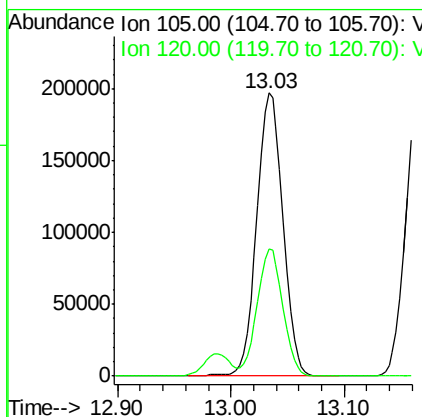
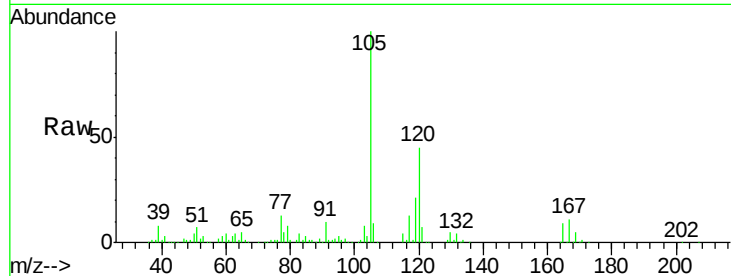
#84
 1,2,4-Trimethylbenzene
 Concen: 46.580 ug/l
 RT: 13.03 min Scan# 3502
 Delta R.T. 0.00 min
 Lab File: VN061114.D
 Acq: 20 Apr 2020 20:01

Instrument :
 MSVOA_N
 ClientSampleId :
 PA-TWP-2MS

Tot Ion	Ratio	Lower	Upper
105	100		
120	44.4	22.1	66.5

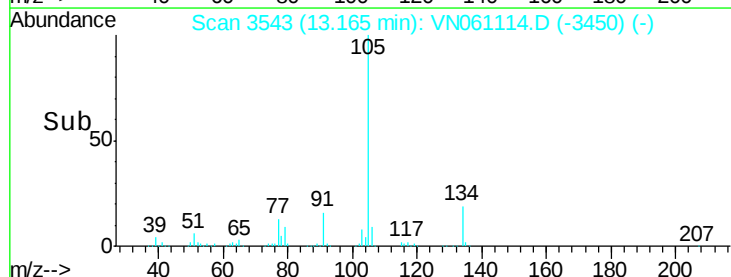
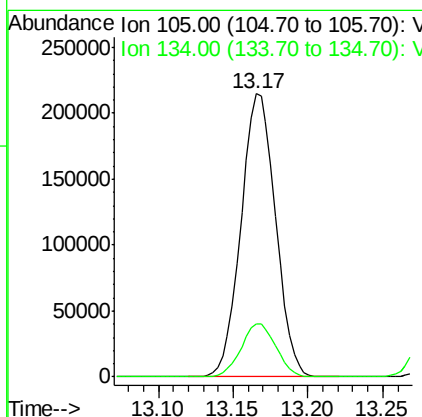
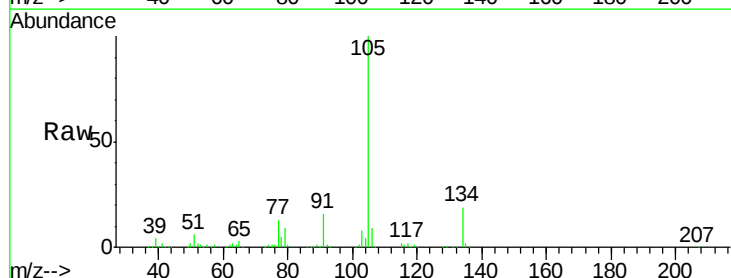
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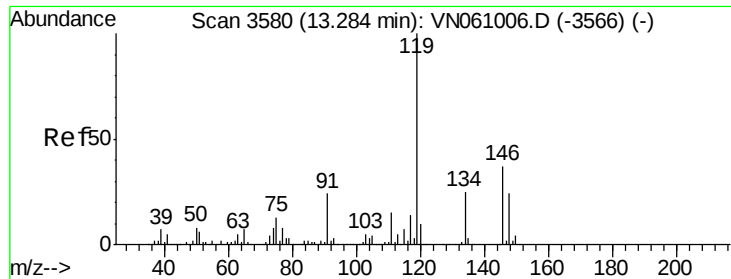
MMDadoda
 4/21/2020 12:00:08 PM



#85
 sec-Butylbenzene
 Concen: 44.097 ug/l
 RT: 13.17 min Scan# 3543
 Delta R.T. 0.00 min
 Lab File: VN061114.D
 Acq: 20 Apr 2020 20:01

Tgt Ion	Ratio	Lower	Upper
105	100		
134	18.9	9.5	28.5





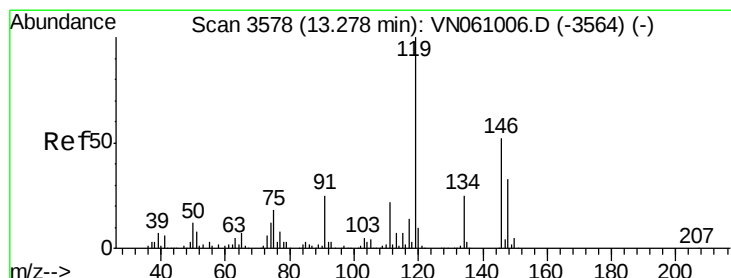
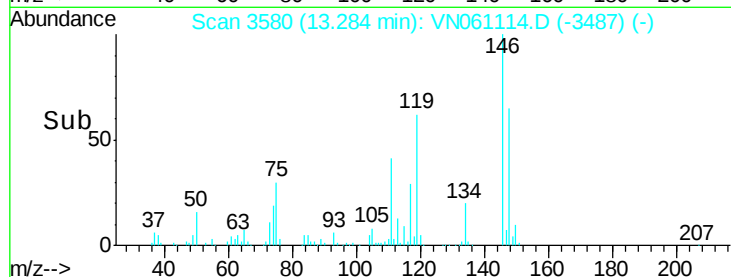
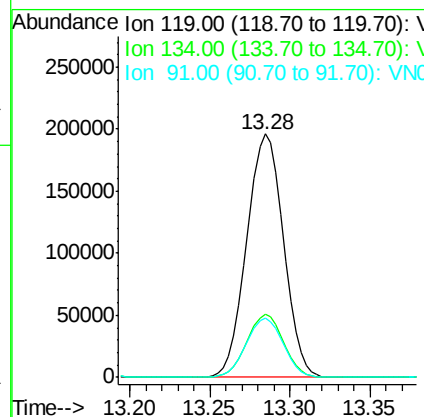
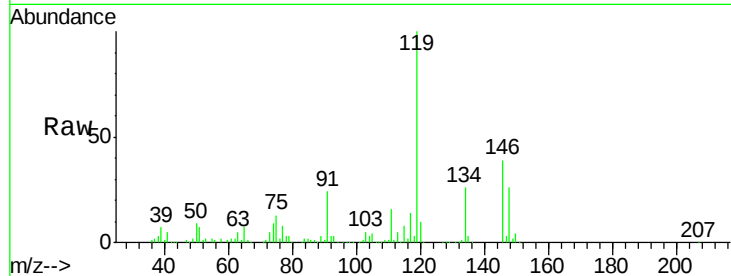
#86
 p-Isopropyltoluene
 Concen: 43.907 ug/l
 RT: 13.28 min Scan# 3580
 Delta R.T. 0.00 min
 Lab File: VN061114.D
 Acq: 20 Apr 2020 20:01

Instrument :
 MSVOA_N
 ClientSampled :
 PA-TWP-2MS

Tot Ion	Ratio	Resp	Lower	Upper
119	100	306676		
134	25.7		12.8	38.4
91	24.5		12.3	36.8

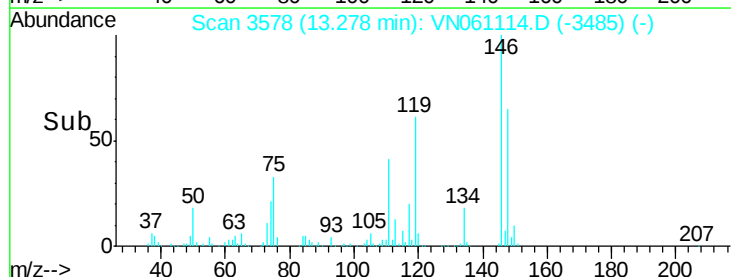
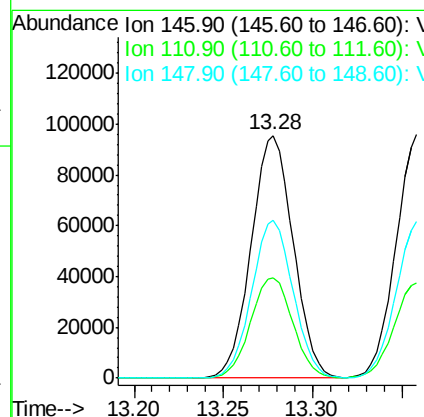
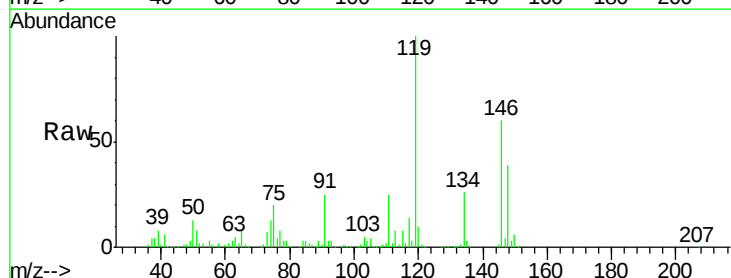
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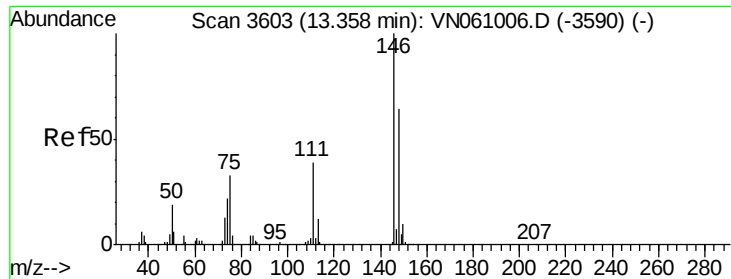
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#87
 1,3-Dichlorobenzene
 Concen: 45.349 ug/l
 RT: 13.28 min Scan# 3578
 Delta R.T. 0.00 min
 Lab File: VN061114.D
 Acq: 20 Apr 2020 20:01

Tgt Ion	Ratio	Resp	Lower	Upper
146	100	157145		
111	41.5		20.6	61.8
148	64.2		31.8	95.3





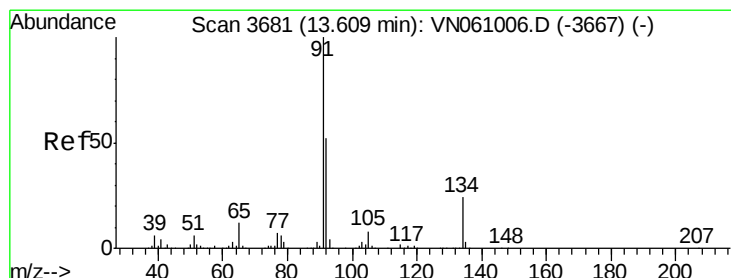
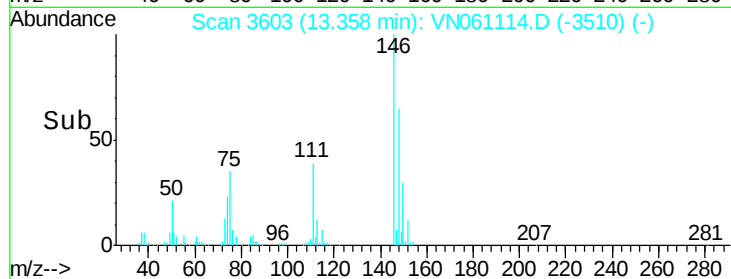
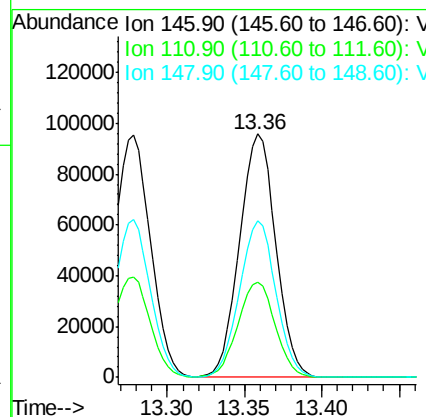
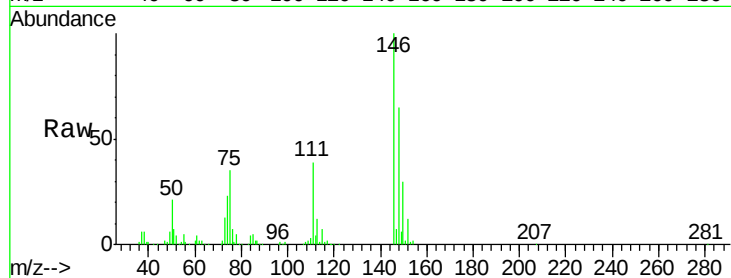
#88
 1,4-Dichlorobenzene
 Concen: 44.837 ug/l
 RT: 13.36 min Scan# 3603
 Delta R.T. 0.00 min
 Lab File: VN061114.D
 Acq: 20 Apr 2020 20:01

Instrument :
 MSVOA_N
 ClientSampleId :
 PA-TWP-2MS

Tot Ion	Ratio	Lower	Upper
146	100		
111	40.5	20.1	60.3
148	64.3	32.1	96.3

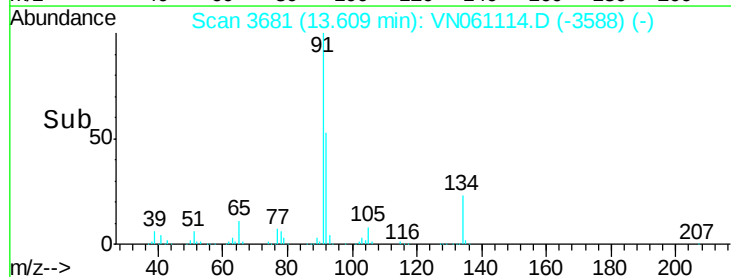
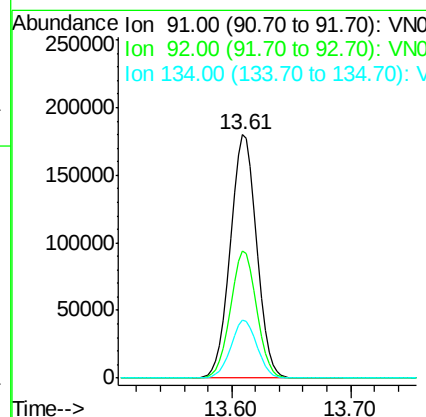
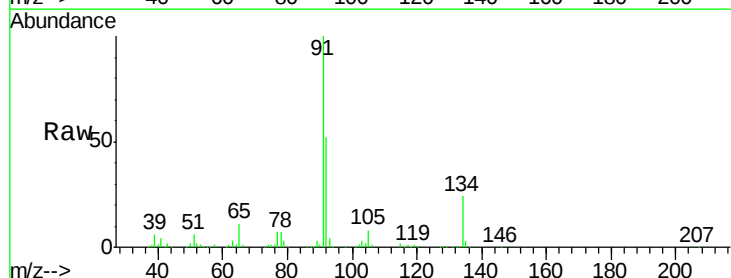
Manual Integrations
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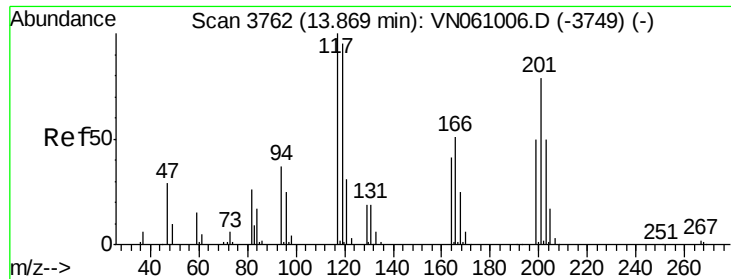
MMDadoda
 4/21/2020 12:00:08 PM



#89
 n-Butylbenzene
 Concen: 42.432 ug/l
 RT: 13.61 min Scan# 3681
 Delta R.T. 0.00 min
 Lab File: VN061114.D
 Acq: 20 Apr 2020 20:01

Tgt Ion	Ratio	Lower	Upper
91	100		
92	52.0	26.1	78.2
134	23.8	12.3	36.8





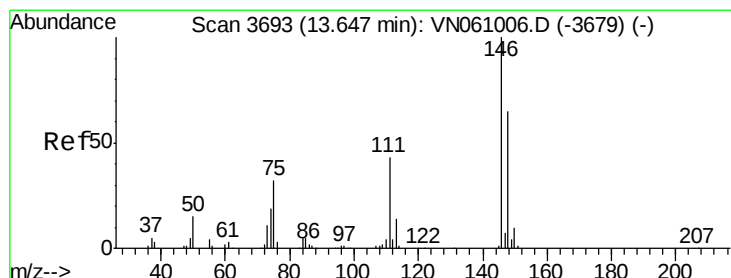
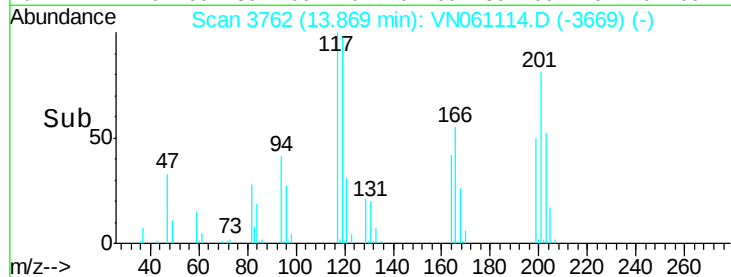
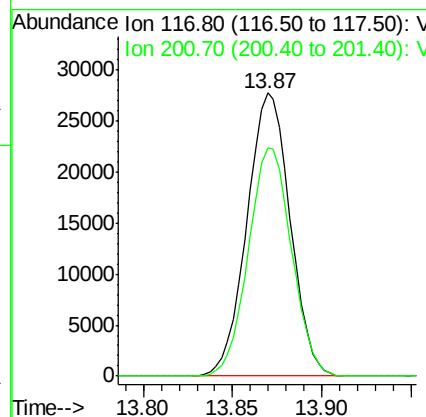
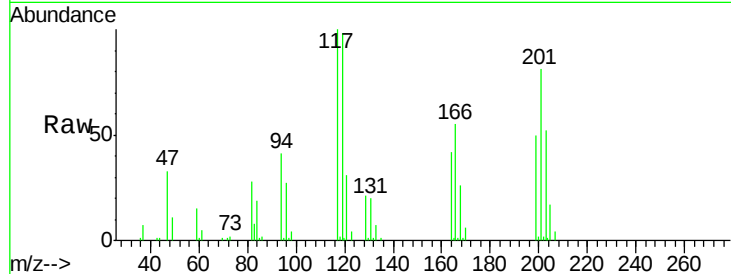
#90
Hexachloroethane
Concen: 43.776 ug/l
RT: 13.87 min Scan# 3762
Delta R.T. 0.00 min
Lab File: VN061114.D
Acq: 20 Apr 2020 20:01

Instrument :
MSVOA_N
ClientSampleId :
PA-TWP-2MS

Tot Ion:117 Resp: 46911
Ion Ratio Lower Upper
117 100
201 80.6 39.3 117.9

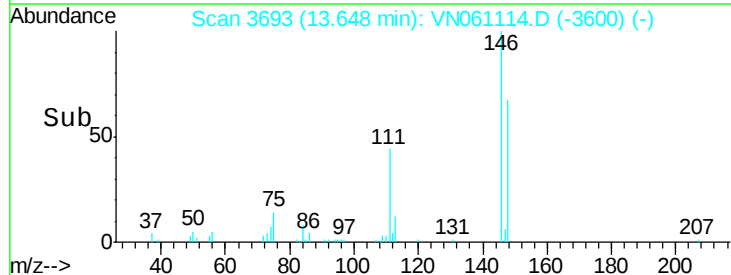
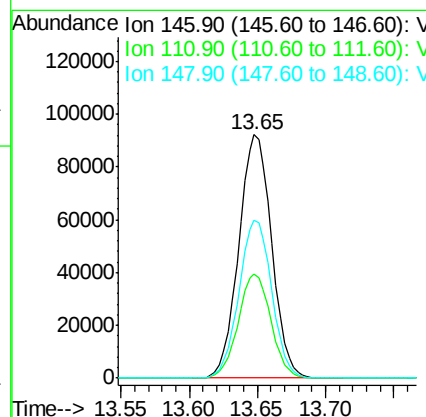
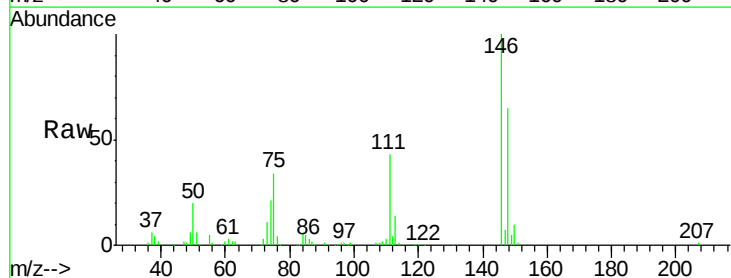
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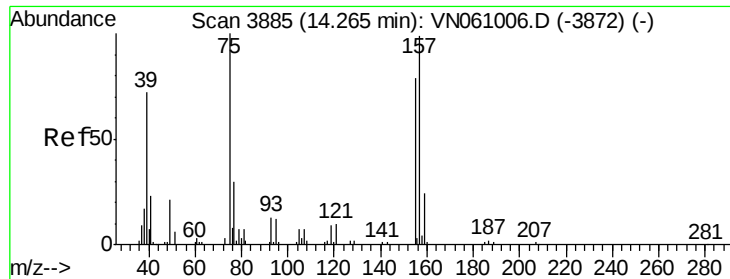
MMDadoda
4/21/2020 12:00:08 PM



#91
1,2-Dichlorobenzene
Concen: 46.659 ug/l
RT: 13.65 min Scan# 3693
Delta R.T. 0.00 min
Lab File: VN061114.D
Acq: 20 Apr 2020 20:01

Tgt Ion:146 Resp: 154316
Ion Ratio Lower Upper
146 100
111 42.4 21.3 64.0
148 64.6 32.0 96.0





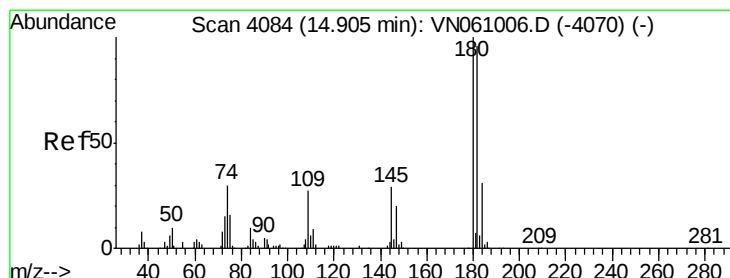
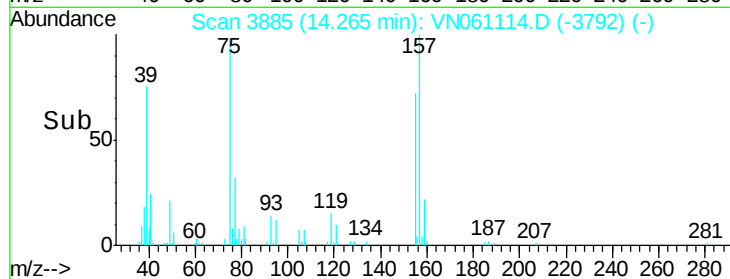
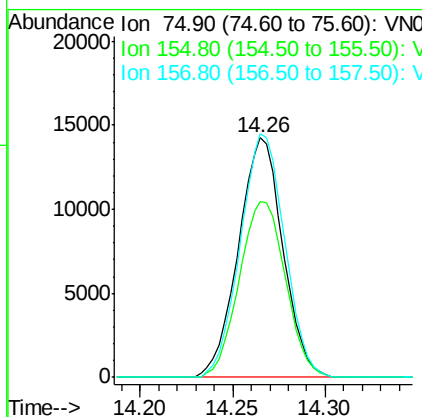
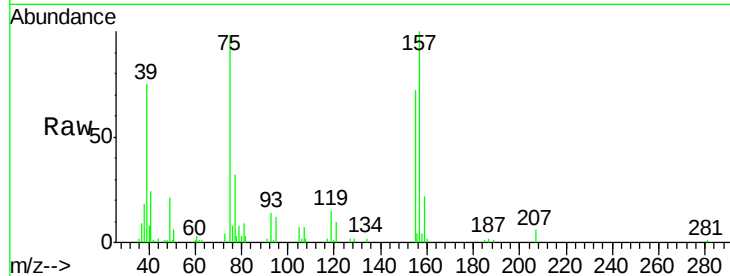
#92
 1,2-Dibromo-3-Chloropropane
 Concen: 48.216 ug/l
 RT: 14.26 min Scan# 3885
 Delta R.T. 0.00 min
 Lab File: VN061114.D
 Acq: 20 Apr 2020 20:01

Instrument :
 MSVOA_N
 ClientSampleId :
 PA-TWP-2MS

Tot Ion	Ratio	Lower	Upper
75	100		
155	76.1	39.5	118.5
157	101.6	50.1	150.4

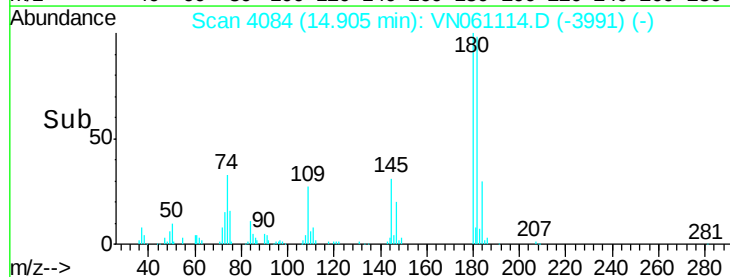
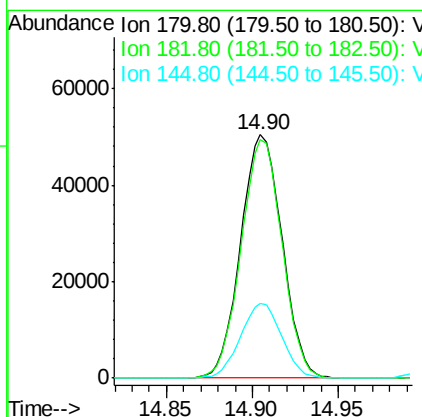
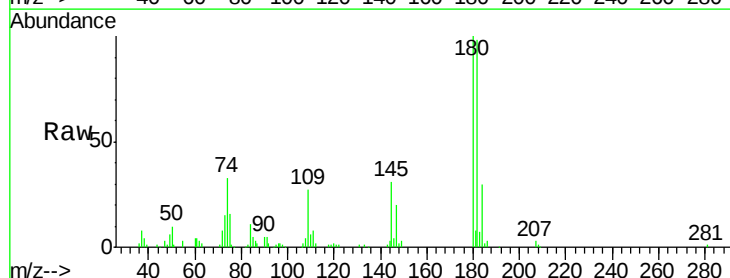
Manual Integrations
 APPROVED

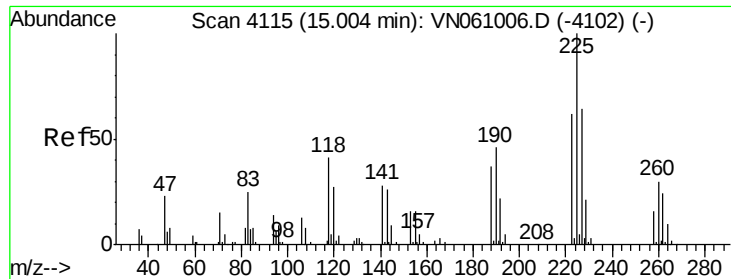
MMDadoda
 4/21/2020 12:00:08 PM



#93
 1,2,4-Trichlorobenzene
 Concen: 43.112 ug/l
 RT: 14.90 min Scan# 4084
 Delta R.T. 0.00 min
 Lab File: VN061114.D
 Acq: 20 Apr 2020 20:01

Tgt Ion	Ratio	Lower	Upper
180	100		
182	96.7	47.8	143.3
145	30.4	15.3	45.8





#94

Hexachlorobutadiene

Concen: 36.821 ug/l

RT: 15.01 min Scan# 4116

Delta R.T. 0.00 min

Lab File: VN061114.D

Acq: 20 Apr 2020 20:01

Instrument :

MSVOA_N

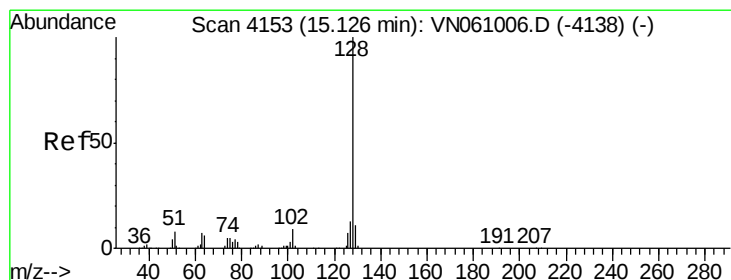
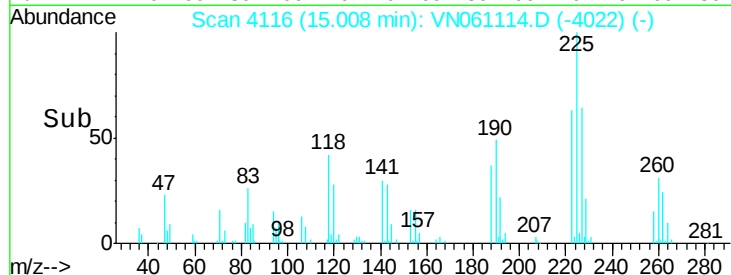
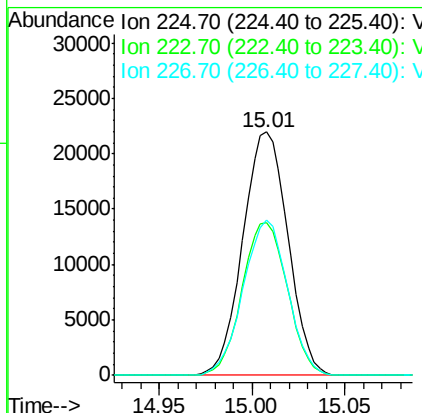
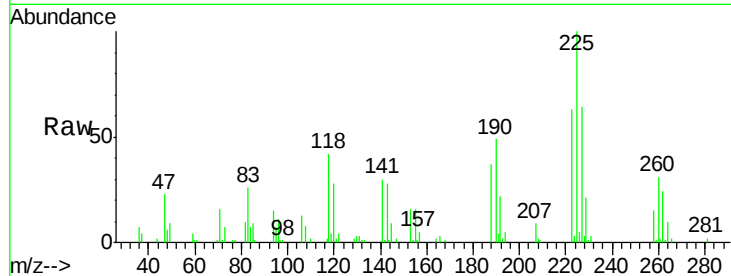
ClientSampleId :

PA-TWP-2MS

Tot Ion:	225	Resp:	37080
Ion Ratio		Lower	Upper
225	100		
223	62.9	31.3	93.8
227	62.6	31.9	95.5

Manual Integrations
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4/21/2020 12:00:08 PM



#95

Naphthalene

Concen: 46.345 ug/l

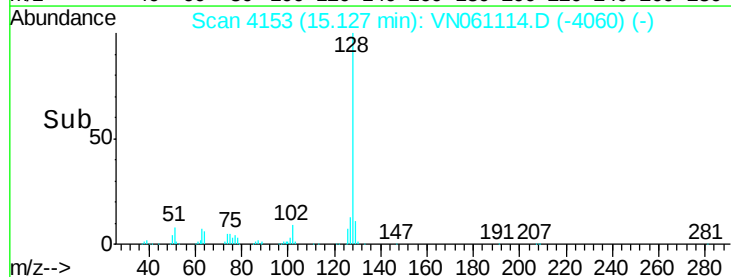
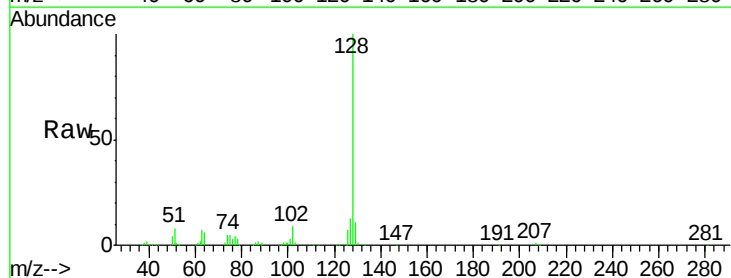
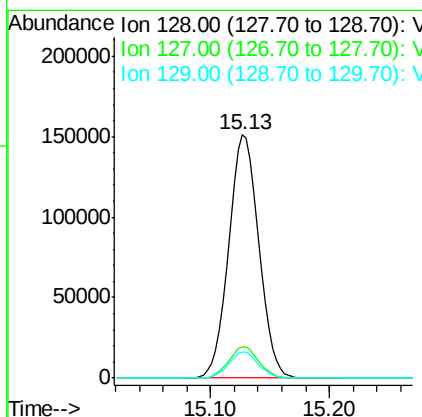
RT: 15.13 min Scan# 4153

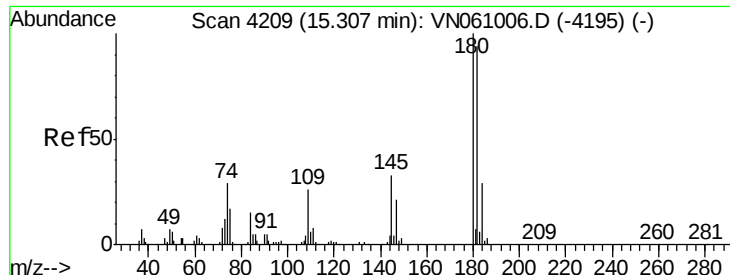
Delta R.T. 0.00 min

Lab File: VN061114.D

Acq: 20 Apr 2020 20:01

Tgt Ion:	128	Resp:	264580
Ion Ratio		Lower	Upper
128	100		
127	12.8	10.2	15.4
129	10.6	8.6	13.0





#96
 1,2,3-Trichlorobenzene
 Concen: 43.653 ug/l
 RT: 15.31 min Scan# 4210
 Delta R.T. 0.00 min
 Lab File: VN061114.D
 Acq: 20 Apr 2020 20:01

Instrument :
 MSVOA_N
 ClientSampleId :
 PA-TWP-2MS

Tot Ion	Ratio	Lower	Upper
180	100		
182	96.1	47.6	142.8
145	32.4	16.4	49.2

Manual Integrations
 APPROVED

MMDadoda
 4/21/2020 12:00:08 PM

